

# **TEST REPORT**

**FCC ID: 2AI3K-CM16** 

Applicant : Cyrus Technology GmbH

Address : Hergelsbendenstr. 49

D-52080 Aachen, Germany

Equipment Under Test(EUT):

Name : MOBILE TELEPHONE

Model : Cyrus CM16

In Accordance with: FCC PART 2; FCC PART 22H; FCC PART 24E

T1861107 02 Report No

**Date of Test** June 21- July 09, 2016

Date of Issue: July 11, 2016

**Test Result** PASS

Test Result: PASS

In the configuration tested, the EUT complied with the standards specified above

Authorized Signature

(Mark Zhu)

General Manager

The manufacture should ensure that all the products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of Shenzhen Alpha Product Testing Co., Ltd. Or test done by Shenzhen Alpha Product Testing Co., Ltd. Approvals in connection with, distribution or use of the product described in this report must be approved by Shenzhen Alpha Product Testing Co., Ltd. Approvals in writing.

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### 1. General Information

### 1.1. Description of Device (EUT)

EUT : MOBILE TELEPHONE

Trade Name : CVR

Model No. : Cyrus CM16

DIFF. : N/A

Power supply : DC 3.7V Supply by battery

Manufacturer: NIL

Model No.: CS 27

Adapter : Input: 100-240V AC, 50/60Hz,0.2A

Output: 5.0V DC, 1A

Radio Technology : WCDMA BAND II/V

Release Version : Rel-6

Operation frequency : WCDMA BAND II: 1852.4MHz—1907.6MHz

WCDMA BAND V: 826.4MHz—846.6MHz

Modulation : QPSK

Antenna Type : PCB Antenna, max gain 1.12 dBi for WCDMA band II and V

Applicant : Cyrus Technology GmbH

Address : Hergelsbendenstr. 49 D-52080 Aachen

Manufacturer : Cyrus Technology GmbH

Address : Hergelsbendenstr. 49 D-52080 Aachen

#### 1.2. Test Lab information

Shenzhen Alpha Product Testing Co., Ltd.

Building B, East Area of Nanchang Second, Industrial Zone, Gushu 2nd Road,

Bao'an, Shenzhen, China

March 25, 2015 File on Federal Communication Commission

Registration Number: 203110

July 18, 2014 Certificated by IC Registration Number: 12135A

# 2. Summary of test

# 2.1. Summary of test result

<b>Description of Test Item</b>	Standard	Results	
	FCC PART 2: 2.1046		
Conducted Output power  Radiated Output power(erp/eirp)  Occupied bandwidth  Frequency stability  Conducted spurious emission  Antenna terminal)	FCC PART 22H: 22.913 (a)	PASS	
	FCC PART 24E: 24.232 (c)		
	FCC PART 22H:22.913 (a)	DAGG	
Radiated Output power(erp/eirp)	FCC PART 24E:24.232(c)	PASS	
	FCC PART 2: 2.1049		
Occupied bandwidth	FCC PART 22H: 22.917 (b)	PASS	
	FCC PART 24E: 24.238 (b)		
	FCC PART 2: 2.1055		
Frequency stability	FCC PART 22H: 22.355	PASS	
	FCC PART 24E: 24.235		
Conducted anymics amissis n	FCC PART 2: 2.1051		
	FCC PART 22H: 22.917		
(Antenna terminal)	FCC PART 24E: 24.238		
	FCC PART 2: 2.1053		
Radiated spurious emissions	FCC PART 22H: 22.917	PASS	
	FCC PART 24E: 24.238		
	FCC PART 22H: 22.917 (b)	DAGG	
Band edge compliance	FCC PART 24E: 24.238 (b)	PASS	
Power Line Conducted Emission Test	FCC Part 15: 15.207	PASS	
Fower Line Conducted Emission Test	ANSI C63.4: 2014	CGAI	

### 2.2. Assistant equipment used for test

Description	:	Adapter
Manufacturer	:	NIL
Model No.	:	CS 27
Input	:	100-240V AC, 50/60Hz,0.2A
Output	:	5.0V DC, 1A

### 2.3. Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level in each test mode and channel as below:

Mode	Channel	Frequency(MHz)
	4132	826.4
UMTS BAND V	4182	836.6
	4233	846.6
	9262	1852.4
UMTS BAND II	9400	1880.0
	9538	1907.6

### 2.4. Test Environment Conditions

Temperature range	21-25℃
Humidity range	40-75%
Pressure range	86-106kPa

### 2.5. Measurement Uncertainty (95% confidence levels, k=2)

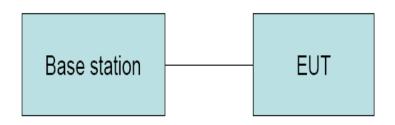
Item	MU	Remark
Uncertainty for Power point Conducted Emissions Test	2.42dB	
Uncertainty for Radiation Emission test in 3m chamber	3.54dB	Polarize: V
(30MHz to 1GHz)	4.1dB	Polarize: H
Uncertainty for Radiation Emission test in 3m chamber	2.08dB	Polarize: H
(1GHz to 25GHz)	2.56dB	Polarize: V
Uncertainty for radio frequency	1×10-9	
Uncertainty for conducted RF Power	0.65dB	
Uncertainty for temperature	0.2°C	
Uncertainty for humidity	1%	
Uncertainty for DC and low frequency voltages	0.06%	

# 2.6. Test Equipment

Equipment	Manufacture	Model No.	Serial No.	Last cal. Due to	Cal Interval
3m Semi-Anechoic	CHENYU	N/A	N/A	2018.01.18	2Year
Spectrum analyzer	Agilent	E4407B	MY46185649	2017.01.16	1Year
Receiver	R&S	ESPI	101873	2017.01.16	1Year
Receiver	R&S	ESCI	101165	2017.01.16	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	VULB9168-440	2018.01.18	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2017.01.20	2Year
Cable	Resenberger	N/A	No.1	2017.01.16	1Year
Cable	SCHWARZBECK	N/A	No.2	2017.01.16	1Year
Cable	SCHWARZBECK	N/A	No.3	2017.01.16	1Year
Pre-amplifier	HP	HP8347A	2834A00455	2017.01.18	1Year
Pre-amplifier	Agilent	8449B	3008A02664	2017.01.18	1Year
vector Signal Generator	Agilent	N5182A	MY49060042	2016.11.16	1 Year
vector Signal Generator	Agilent	E4440C	US44271917	2016.11.16	1 Year
X-series USB Peak and Average Power Sensor	Agilent	U2021XA	MY54080020	2016.11.16	1 Year
X-series USB Peak and Average Power Sensor	Agilent	U2021XA	MY54110001	2016.11.16	1 Year
Signal Analyzer	Agilent	N9020A	MY48030494	2016.11.16	1 Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126466	2016.01.19	1Year
L.I.S.N.#2	ROHDE&SCHWA RZ	ENV216	101043	2016.01.19	1 Year

## 3. Conducted Output power

### 3.1. Block Diagram of Test Setup



### 3.2. Limit

Cellular Telephone 850MHz	PCS 1900MHz
38.5dBm(ERP)	33dBm(EIRP)

### 3.3. Test Procedure

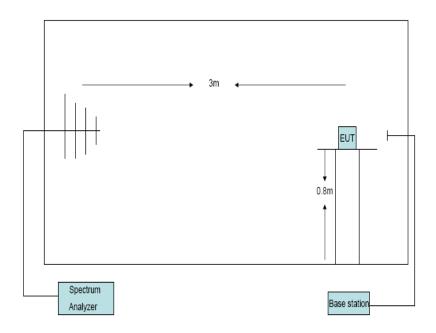
- (1) The EUT's RF output port was connected to base station.
- (2) A call is set up by the SS according to the generic call set up procedure
- (3) Set EUT at maximum power level through base station by power level command
- (4) Measure the maximum output power of EUT at each frequency band and mode by base station.

### 3.4. Test Result

EUT: MO	BILE TEL		M/N:CY	RUS CN	<b>M</b> 16	Power: 1	DC 3.7V	from ba	ttery			
Ambient Temperature:24℃				Relative Humidity: 62%								
Test date: 2016-06-25 Test site: RF site Tested by: Simple Guan												
Conclusio	Conclusion: PASS											
Mode	Channel				PK (	Output Po	wer(dBm)	)				Limit
		WCDMA		HSI	OPA				HSUPA			(dBm)
			Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	Sub	
			Test1	Test2	Test3	Test4	Test1	Test2	Test3	Test4	Test5	
WCDMA	4132	23.22	22.97	22.69	21.49	21.04	22.78	21.02	22.41	21.02	21.50	38.5
850	4182	23.34	23.12	21.95	22.90	21.51	21.98	21.71	22.03	21.42	21.25	38.5
830	4233	23.15	23.19	22.41	22.23	21.55	22.85	21.01	22.07	21.82	21.50	38.5
WCDMA	9262	23.40	23.15	22.25	21.92	21.38	22.36	21.18	21.98	21.47	21.57	33
1900	9400	23.43	23.10	21.94	21.66	21.66	22.02	21.22	22.41	21.49	21.01	33
1900	9538	23.38	23.20	22.12	21.76	23.34	22.18	21.97	22.38	20.94	21.72	33

### 4. Radiated Output power

### 4.1. Block Diagram of Test Setup



### 4.2. Limit

Cellular Telephone 850MHz	PCS 1900MHz
38.5dBm(ERP)	33dBm(EIRP)

#### 4.3. Test Procedure

- The EUT was placed on a non-conductive rotating platform with 0.8 meter height in an anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RBW= 3MHz, VBW= 3MHz and peak detector settings.
- 2. During the measurement, the EUT was enforced in maximum power and linked with a base station. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations
- 3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (for frequency below 1GHz) or Horn antenna (for frequency above 1GHz) at same location with same

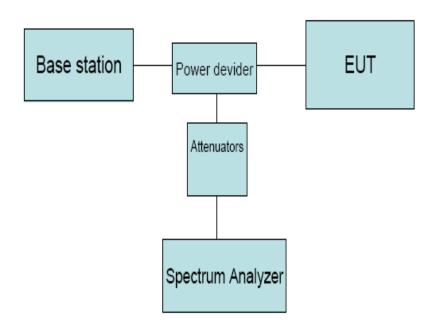
polarize of receiver antenna and then a known power of each measure frequency from S.G. was applied into the dipole antenna or Horn antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain –Substitution antenna Loss (only for Dipole antenna) - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, EIRP= LVL + Correction factor and ERP = EIRP - 2.15

### 4.4. Test Result

EUT: MOBILE TELEPHONE M/N:CYRUS CM16							
Power: DC 3.7V from battery							
Ambient Temperature	:23°C		Relative Humidity:	60%			
Test date: 2016-06-25			Test site: RF site	Tested by: Sin	nple Guan		
Conclusion: PASS							
Mode	Channel	LVL	Correction	ERP	EIRP		
		(dBm)	factor(dB)	(dBm)	(dBm)		
	4132	-6.42	30.27	21.70	/		
WCDMA BAND V	4182	-6.56	30.16	21.45	/		
	4233	-6.36	30.24	21.73	/		
	9262	-25.44	46.83	/	21.39		
WCDMA BAND II	9400	-25.42	46.97	/	21.55		
	9538	-25.45	46.96	/	21.51		
ERP=LVL + Correction factor -2.15 EIRP=LVL + Correction factor							

## 5. Occupied Bandwidth

### 5.1. Block Diagram of Test Setup



### 5.2. Limit

N/A

### 5.3. Test Procedure

- 1. The EUT' RF output port was connected to Spectrum Analyzer and Base Station via power divider.
- 2. Spectrum analyzer's occupied bandwidth measure function was used to measure 99% bandwidth and -26dBc bandwidth

.

### 5.4. Test Result

EUT: MOBILE TELEPHONEr M/N:CYRUS CM16								
Power: DC 3.7V from battery								
Ambient Temperature:23 °C Relative Humidity: 60%								
Test date: 2016-06-25		Test site: RF site	Tested by: Simple Guan					
Mode	Channel	99% bandwidth	-26dBc bandwidth					
		(MHz)	(MHz)					
	4132	4.1623	4.736					
WCDMA BAND V	4182	4.1663	4.725					
	4233	4.1505	4.729					
	9262	4.1706	4.748					
WCDMA BAND II	9400	4.1716	4.758					
	9538	4.1782	4.798					

### 5.5. Orginal test data

### WCDMA BAND V CH4132



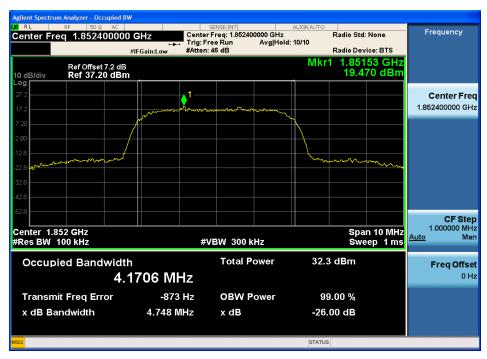
#### WCDMA BAND V CH4182



#### WCDMA BAND V CH4233



#### WCDMA BAND II CH9262



#### WCDMA BAND II CH9400

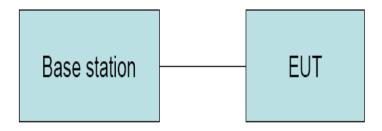


### WCDMA BAND II CH9538



### 6. Frequency stability

### 6.1. Block Diagram of Test Setup



### 6.2. Limit

Cellular Telephone 850MHz	PCS 1900MHz
+ 2.5 mm	Must stay within the authorized
± 2.5 ppm	frequency block

#### 6.3. Test Procedure

Test Procedures for Temperature Variation:

- 1. The EUT was set up in the thermal chamber and connected with the base station.
- 2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized for three hours. Power was applied and the maximum change in frequency was recorded within one minute.
- 3. With power OFF, the temperature was raised in -30°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

Test Procedures for Voltage Variation

- 1. The EUT was placed in a temperature chamber at  $25\pm5^{\circ}$  C and connected with the base station.
- 2. The power supply voltage to the EUT was varied from DC 5V to  $3.5\mathrm{V}$
- 3. The variation in frequency was measured for the worst case.

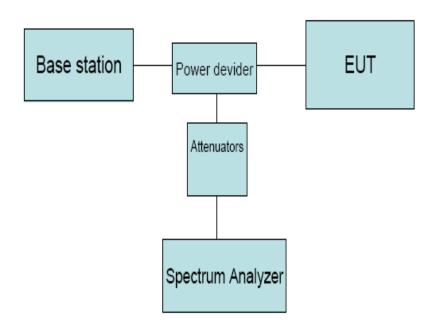
### 6.4. Test Result

EUT: MOBILE TELEPHONE M/N:Cyrus CM16								
Power: DC 3.7V								
Ambient Temperature:23°C Relative Humidity: 60%								
Test date: 2016-06-25		Test site: RF site	Tested by: Simple Guan					
Conclusion: PASS								
Mode	Voltage	Frequency error	frequency error					
	(V)	(Hz)	(ppm)					
	4.1V	17.39	0.0208					
WCDMA BAND V	4.0V	-18.37	-0.0220					
CH4182	3.9V	15.51	0.0185					
	3.8V	-16.42	-0.0196					
	3.7V	-16.58	-0.0198					
	4.1V	-26.39	-0.0140					
WCDMA BAND II	4.0V	36.21	0.0193					
CH9400	3.9V	-29.19	-0.0155					
СП9400	3.8V	31.71	0.0169					
	3.7V	-27.59	-0.0147					

Mode	Temperature	Frequency error	frequency error
	(℃)	(Hz)	(ppm)
	-30	20.34	0.0243
	-20	16.16	0.0193
	-10	15.27	0.0183
WCDMA BAND V	0	21.54	0.0258
CH4182	10	-15.39	-0.0184
	20	18.58	0.0222
	30	-12.27	-0.0147
	40	-13.16	-0.0157
	50	-21.44	-0.0256
	-30	35.57	0.0189
	-20	22.38	0.0119
	-10	32.27	0.0172
WCDMA BAND II	0	37.16	0.0198
	10	-24.42	-0.0130
CH9400	20	31.33	0.0167
	30	-24.19	-0.0129
	40	21.58	0.0115
	50	-16.67	-0.0089

### 7. Conducted spurious emissions

### 7.1. Block Diagram of Test Setup



### 7.2. Limit

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least  $(43 + 10 \log P) dB$ , in this case, -13dBm.

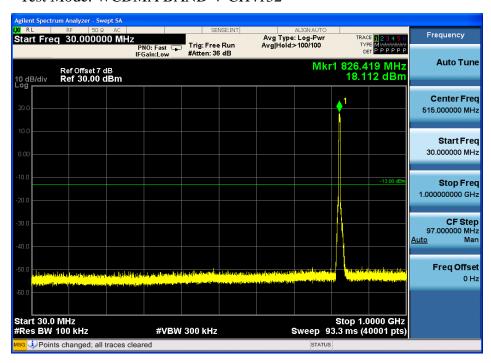
### 7.3. Test Procedure

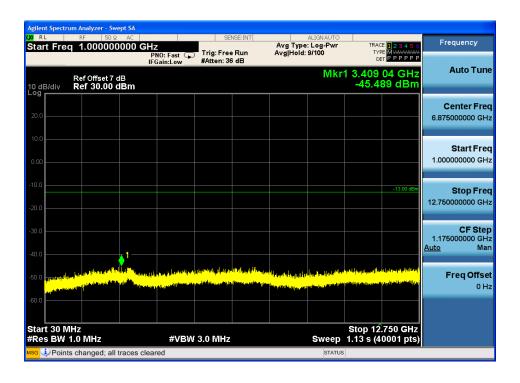
- 1. The EUT was connected to spectrum analyzer and base station via power divider.
- 2. The low, middle and high channels of each band and mode's spurious emissions for 30MHz to 10th Harmonic were measured by Spectrum analyzer.

### 7.4. Test Result

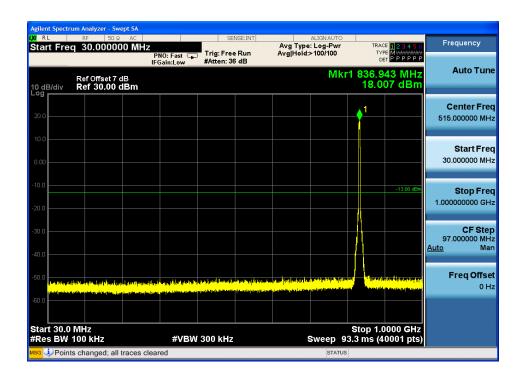
**PASS** 

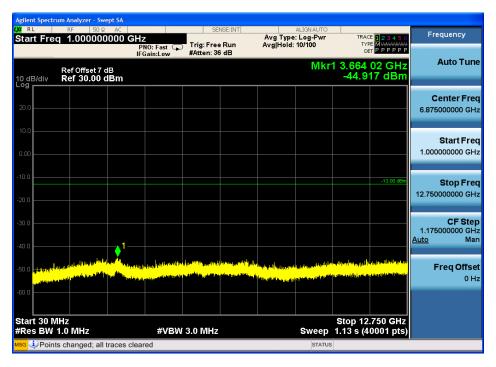
#### Test Mode: WCDMA BAND V CH4132



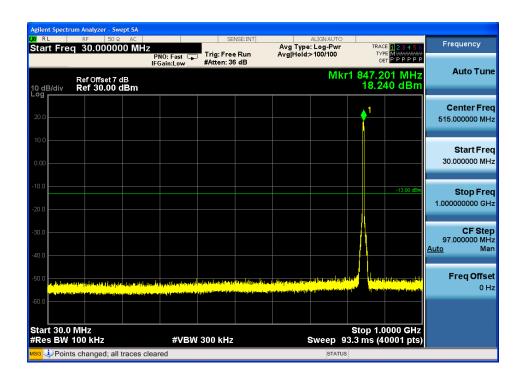


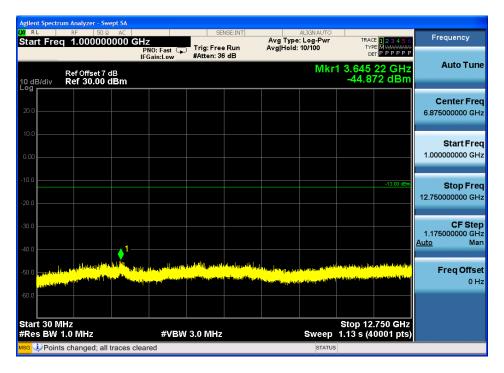
#### Test Mode: WCDMA BAND V CH4182





#### Test Mode: WCDMA BAND V CH4233





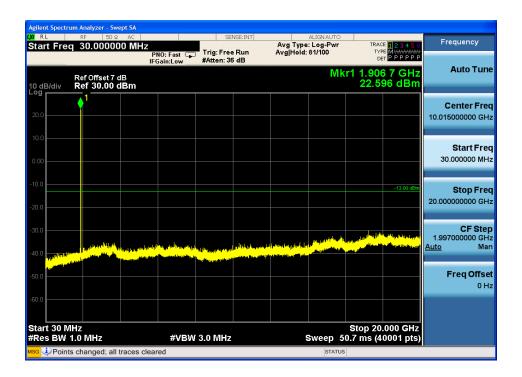
#### Test Mode: WCDMA BAND II CH9262



#### Test Mode: WCDMA BAND II CH9400

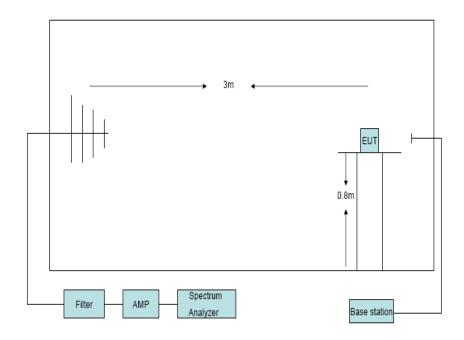


### Test Mode: WCDMA BAND II CH9538



### 8. Radiated Spurious emissions

### 8.1. Block Diagram of Test Setup



#### 8.2. Limit

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least  $(43 + 10 \log P)$  dB, in this case, -13dBm.

### 8.3. Test Procedure

- 1. The EUT was placed on a non-conductive rotating platform with 0.8 meter height in an anechoic chamber. The radiated spurious emissions from 30MHz to 10<sup>th</sup> harmonious of fundamental frequency were measured at 3m with a test antenna and a spectrum analyzer with RBW= 1MHz, VBW= 1MHz ,peak detector settings.
- 2. During the measurement, the EUT was enforced in maximum power and linked with a base station. All the spurious emissions (record as LVL) at 3m were measured by rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.
- 3. Final spurious emissions levels were measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (for frequency below 1GHz) or Horn antenna (for frequency above 1GHz) at same location with same polarize of receiver antenna and then a known power of each measure frequency from S.G. was

applied into the dipole antenna or Horn antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain –Substitution antenna loss (only for Dipole antenna) - Analyzer reading. Then final spurious emissions were calculated with the correction factor, EIRP= LVL + Correction factor and ERP = EIRP –  $2.15\,$ 

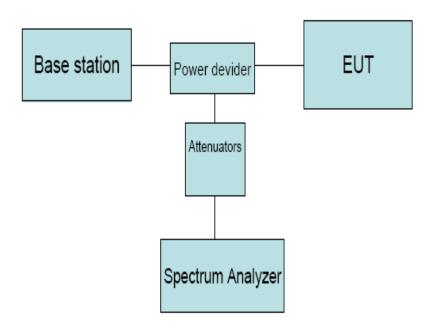
### 8.4. Test Result

EUT: MOBILE TELEPHONE M/N:CYRUS CM16									
Power: DC 3.7V from battery									
Test Date: 201	6-06-25	Test site: RF	Chamber	Tested by: Sin	Tested by: Simple Guan				
Ambient Temperature: 24°C		Relative Humidity: 60%							
Conclusion: PA	Conclusion: PASS								
			Test result						
Test Mode:	WCDMA BAN	D V CH4132	}						
Frequency	Antenna	LVL	Correction	Result	Limit	Margin			
(MHz)	polarization	(dBm)	factor(dB)	(ERP)(dBm)	(dBm)	(dB)			
537.31	537.31 H		-6.53	-64.74	-13	51.74			
537.31	537.31 V		-6.53	-64.51	-13	51.51			
1652.8	1652.8 Н		11.5	-45.02	-13	32.02			
1652.8 V		-53.31	10.56	-42.75	-13	29.75			
Test Mode:	WCDMA BA	ND V CH418	32						
1673.2	Н	-58.05	10.94	-47.11	-13	34.11			
1673.2 V		-52.65	10.9	-41.75	-13	28.75			
Test mode: WCDMA BAND V CH4233									
1693.2	Н	-60.01	11.67	-48.34	-13	35.34			
1693.2	V	-53.35	11.13	-42.22	-13	29.22			

Test Mode: WCDMA BAND II CH9262									
Frequency Antenna		LVL Correction		Result	Limit	Margin			
(MHz)	polarization	(dBm)	factor(dB)	(EIRP)(dBm)	(dBm)	(dB)			
537.31	7.31 H -58		-6.53	-64.75	-13	51.75			
537.31	V	-57.71	-6.53	-64.24	-13	51.24			
3704.8	Н	-57.32	8.57	-48.75	-13	35.75			
3704.8	V	-52.42	8.37	-44.05	-13	31.05			
Test Mode: WCDMA BAND II CH9400									
3760	Н	-55.08	8.75	-46.33	-13	33.33			
3760	V	-51.62	8.55	-43.07	-13	30.07			
Test mode: Wo	Test mode: WCDMA BAND II CH9538								
3815.2 H -53.47 8.94 -44.53 -13 31.53									
3815.2 V -54.45 8.72 -45.73 -13 32									
Note: All the other emissions not recorded were too low to read, and deemed to comply with limit.									

### 9. Band Edge Compliance

### 9.1. Block Diagram of Test Setup



### 9.2. Limit

The mean power of emissions must be attenuated below the mean power of the unmodulated carrier (P) on any frequency outside the frequency band by at least  $(43 + 10 \log P) dB$ , in this case, -13dBm.

### 9.3. Test Procedure

- 1. The EUT was connected to Spectrum Analyzer and Base Station via power divider.
- 2. The band edges of low and high channels for the highest RF powers were measured.

### 9.4. Test Result

#### **PASS**

Test Mode: WCDMA BAND V





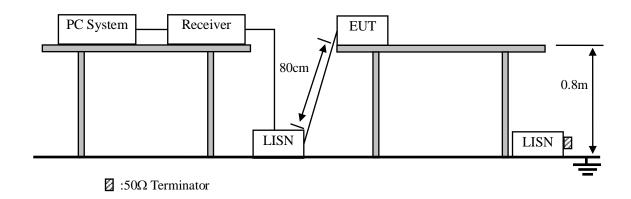
#### Test Mode: WCDMA BAND II





### 10. Power line conducted emission

### 10.1.Block Diagram of Test Setup



### 10.2.Limit

	Maximum RF Line Voltage			
Frequency	Quasi-Peak Level	Average Level		
	$dB(\mu V)$	$dB(\mu V)$		
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*		
500kHz ~ 5MHz	56	46		
5MHz ~ 30MHz	60	50		

Notes: 1. \* Decreasing linearly with logarithm of frequency.

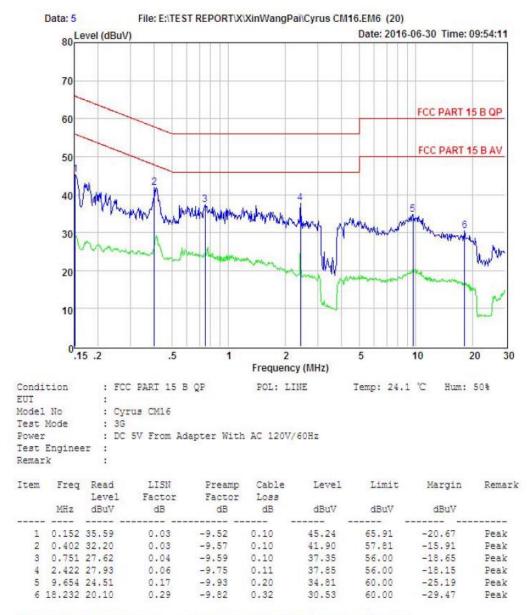
2. The lower limit shall apply at the transition frequencies.

### 10.3.Test Procedure

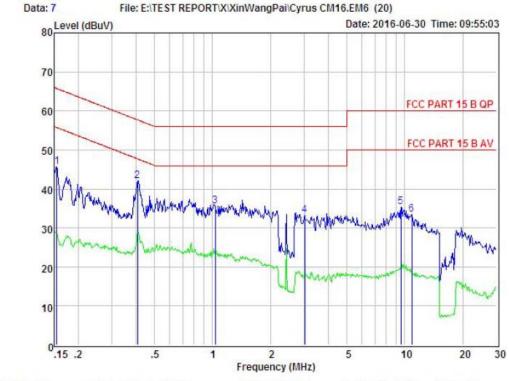
- (1) The EUT was placed on a non-metallic table, 80cm above the ground plane.
- (2) Setup the EUT and simulator as shown in 10.1
- (3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N1), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4 2013 and ANSI C64.10:2009 on conducted Emission test.
- (4) The bandwidth of test receiver is set at 10 kHz.
- (5) The frequency range from 150 KHz to 30 MHz is checked.

#### 10.4. Test Result

### PASS. (See below detailed test data)



Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss



Condition : FCC PART 15 B QP POL: NEUTRAL Temp: 24.1 °C Hum: 50%

EUT Model No

: Cyrus CM16 Test Mode : 3G

Power : DC 5V From Adapter With AC 120V/60Hz

Test Engineer : Remark

Item	Freq	Read Level	LISN Factor	Pream	TARGET STATE	Level	Limit	Margi	n Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dBuV	
1	0.155	36.12	0.03	-9.52	0.10	45.77	65.74	-19.97	Peak
2	0.408	32.42	0.03	-9.57	0.10	42.12	57.68	-15.56	Peak
3	1.032	25.78	0.04	-9.63	0.10	35.55	56.00	-20.45	Peak
4	3.025	23.23	0.07	-9.80	0.12	33.22	56.00	-22.78	Peak
5	9.552	25.04	0.17	-9.93	0.20	35.34	60.00	-24.66	Peak
6	10.905	23.12	0.23	-9.92	0.22	33.49	60.00	-26.51	Peak

Remark: Level = Read Level + LISN Factor - Preamp Factor + Cable Loss

# 11. Test setup photo

Please refer to test setup photos.

## 12. Photos of EUT

Please refer to EUT photo document.

-----END OF THE REPORT-----