RF TEST REPORT



Report No.: 16070853-FCC-R Supersede Report No.: N/A

Applicant	Vitek Electronics International Co.,Ltd		
Product Name	GSM Senior phone		
Model No.	RLTP169 -I	BLACK	
Serial No.	T19, S19Y		
Test Standard	FCC Part 2	2(H):2015 ;FCC Part 24(E):20	015;ANSI/TIA-603-D: 2010
Test Date	July 15 to 27, 2016		
Issue Date	July 28, 2016		
Test Result	Pass Fail		
Equipment complied with the specification			
Equipment did not comply with the specification			
Loven	LOVEN LUO David Huang		
Loren Luo Test Engineer		David Huang Checked By	

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Test result presented in this test report is applicable to the tested sample only

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

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Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety



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1. Report Revision History

Report No.	Report Version	Description	Issue Date
16070853-FCC-R	NONE	Original	July 28, 2016

2. Customer information

Applicant Name	Vitek Electronics International Co.,Ltd	
Applicant Add	Rm 2202, Leizhen Building, Fuming Rd,Shen Zhen, China	
Manufacturer	Shenzhen Vitek Electronics Co., Ltd	
Manufacturer Add	Rm 2202, Leizhen Building, Fuming Rd, Futian District, Shen Zhen, China	

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES	
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park	
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China	
	518108	
FCC Test Site No.	718246	
IC Test Site No.	4842E-1	
Test Software	Radiated Emission Program-To Shenzhen v2.0	



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4. Equipment under Test (EUT) Information

Description of EUT: GSM Senior phone

Main Model: RLTP169 -BLACK

Serial Model: T19, S19Y

Date EUT received: July 14, 2016

Test Date(s): July 15 to 27, 2016

Equipment Category : PCE

GSM850:0.4dBi Antenna Gain:

PCS1900:1.2dBi

Antenna Type: PIFA antenna

Type of Modulation: GSM / GPRS: GMSK

GSM850 TX: 824.2 ~ 848.8 MHz; RX: 869.2 ~ 893.8 MHz RF Operating Frequency (ies):

PCS1900 TX: 1850.2 ~ 1909.8 MHz; RX: 1930.2 ~ 1989.8 MHz

GSM Vioce: GSM850: 31.85dBm

Maximum Conducted PCS1900:28.95dBm

AV Power to Antenna: GPRS:GSM850: 31.83 dBm

PCS1900: 28.85dBm

GSM Vioce :GSM850: 29.58 dBm / ERP

PCS1900: 29.71dBm / EIRPP

ERP/EIRP: GPRS: GSM850: 29.23 dBm / ERP

PCS1900: 29.62dBm / EIRPP

GSM 850: 124CH Number of Channels:

PCS1900: 299CH

Port: Power Port, Earphone Port, USB Port



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Adapter:

Model: RLTP169-BLACK

Input: AC 100-240V~50/60Hz

Input Power:
Output: DC 5V,500mA

Battery:

Spec:3.7V,600mAh,2.22Wh

Trade Name : RCA, VITEK, VTEX

GPRS Multi-slot class 8/10/12

FCC ID: 2AI3CRLTP169-BLACK



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5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result	
§ 1.1307; § 2.1093	RF Exposure (SAR)	Compliance	
§2.1046; § 22.913(a); § 24.232(c);	RF Output Power	Compliance	
§ 24.232 (d) ;	Peak-Average Ratio	Compliance	
§ 2.1049; § 22.905; § 22.917;	000/ 9, 26 dB Occurried Bandwidth	0	
§ 24.238;	99% & -26 dB Occupied Bandwidth	Compliance	
§ 2.1051; § 22.917(a);	Spurious Emissions at Antonna Terminal	Camplianas	
§ 24.238(a);	Spurious Emissions at Antenna Terminal	Compliance	
§ 2.1053; § 22.917(a);	Field Chromath of Countries Dadiation	Compliance	
§ 24.238(a);	Field Strength of Spurious Radiation	Compliance	
§ 22.917(a); § 24.238(a);	Out of band emission, Band Edge	Compliance	
\$ 2.4055, \$ 22.255, \$ 24.225,	Frequency stability vs. temperature	Compliance	
§ 2.1055; § 22.355; § 24.235;	Frequency stability vs. voltage		

Note: Testing was performed by configuring EUT to maximum output power status, the declared output power class for different

Measurement Uncertainty

Emissions				
Test Item	Description	Uncertainty		
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB		
-	-	-		



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6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS

6.1 RF Exposure (SAR)

Test Result: Pass

The EUT is a portable device, thus requires SAR evaluation;

Please refer to RF Exposure Evaluation Report: 16070853-FCC-H.



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6.2 RF Output Power

Temperature	22°C
Relative Humidity	58%
Atmospheric Pressure	1025mbar
Test date :	July 25, 2016
Tested By :	Loren Luo

Requirement(s):

8.45dBm 33dBm	▽					
33dBm	<u> </u>					
ansmitter output port was connected to base state of the	d it was laced on the f 3 meters d er to identify st was					
	ration as well as EUT azimuth were varied in ord aximum level of emissions from the EUT. The test med by placing the EUT on 3-orthogonal axis. Equency range up to tenth harmonic of the fundation					



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	- Remove the EUT and replace it with substitution antenna. A signal					
	generator was connected to the substitution antenna by a non-					
	radiating cable. The absolute levels of the spurious emissions					
	were measured by the substitution.					
	- Spurious emissions in dB = 10 log (TX power in Watts/0.001) –					
	the absolute level					
	- Spurious attenuation limit in dB = 43 + 10 Log10 (power out in					
	Watts.					
Remark						
Result	Pass					
Test Data Yes	N/A					
Test Plot Yes	(See below) N/A					



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Conducted Power

GSM Mode:

Burst Average Power (dBm);								
Band		GSM850			PCS1900			
Channel	128	190	251	Tune up Power tolerant	512	661	810	Tune up Power tolerant
Frequency (MHz)	824.2	836.6	848.8	1	1850.2	1880	1909.8	1
GSM Voice (1 uplink),GMSK	31.43	31.64	31.85	31.5±1	28.95	28.67	28.73	29±1
GPRS Multi-Slot Class 8 (1 uplink),GMSK	31.42	31.64	31.83	31.5±1	28.85	28.63	28.72	29±1
GPRS Multi-Slot Class 10 (2 uplink) GMSK	30.23	30.54	30.82	30.5±1	28.67	28.38	28.30	28.5±1
GPRS Multi-Slot Class 12 (4 uplink) GMSK	27.61	27.73	27.95	27.5±1	26.30	26.02	25.93	26±1

Remark:

GPRS, CS1 coding scheme.

Multi-Slot Class 8 , Support Max 4 downlink, 1 uplink , 5 working link

Multi-Slot Class 10 , Support Max 4 downlink, 2 uplink , 5 working link

Multi-Slot Class 12 , Support Max 4 downlink, 4 uplink , 5 working link

Note: Since GSM mode has higher power, so the test items below were not performed to GPRS mode.



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GSM Mode:

ERP & EIRP

ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	23.08	V	6.8	0.53	29.35	38.45
824.2	22.12	Н	6.8	0.53	28.39	38.45
836.6	23.17	V	6.8	0.53	29.44	38.45
836.6	22.28	Н	6.8	0.53	28.55	38.45
848.8	23.21	V	6.9	0.53	29.58	38.45
848.8	22.29	Н	6.9	0.53	28.66	38.45

EIRP for PCS Band (Part 24E)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	22.61	V	7.88	0.85	29.64	33
1850.2	21.85	Н	7.88	0.85	28.88	33
1880	22.68	V	7.88	0.85	29.71	33
1880	21.94	Н	7.88	0.85	28.97	33
1909.8	22.65	V	7.86	0.85	29.66	33
1909.8	21.98	Н	7.86	0.85	28.99	33



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GPRS Mode:

ERP & EIRP

ERP for Cellular Band (Part 22H)

Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
824.2	22.89	V	6.8	0.53	29.16	38.45
824.2	22.03	Н	6.8	0.53	28.30	38.45
836.6	22.81	V	6.8	0.53	29.08	38.45
836.6	21.95	Н	6.8	0.53	28.22	38.45
848.8	22.86	V	6.9	0.53	29.23	38.45
848.8	22.02	Н	6.9	0.53	28.39	38.45

EIRP for PCS Band (Part 24E)

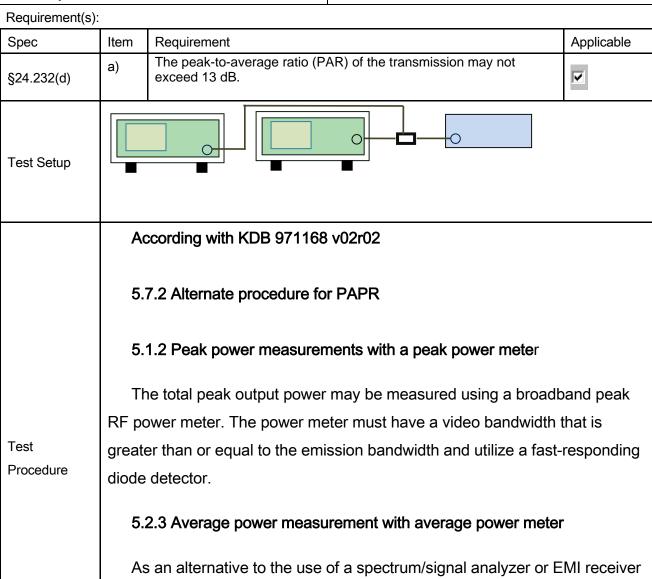
Frequency (MHz)	Substituted level (dBm)	Antenna Polarization	Antenna Gain correction (dBi)	Cable Loss (dB)	Absolute Level (dBm)	Limit (dBm)
1850.2	22.54	V	7.88	0.85	29.57	33
1850.2	21.69	Н	7.88	0.85	28.72	33
1880	22.48	V	7.88	0.85	29.51	33
1880	21.73	Н	7.88	0.85	28.76	33
1909.8	22.61	V	7.86	0.85	29.62	33
1909.8	21.65	Н	7.86	0.85	28.66	33



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6.3 Peak-Average Ratio

Temperature	22°C
Relative Humidity	58%
Atmospheric Pressure	1025mbar
Test date :	July 25, 2016
Tested By:	Loren Luo



to perform a measurement of the total in-band average output power, a

If the EUT can be configured to transmit continuously (i.e., the burst duty

wideband RF average power meter with a thermocouple detector or

equivalent can be used under certain conditions



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	cycle ≥ 98%) and at all times the EUT is transmitting at is maximum output
	power level, then a conventional wide-band RF power meter can be used.
	If the EUT cannot be configured to transmit continuously (i.e., the burst duty
	cycle < 98%), then there are two options for the use of an average power
	meter. First, a gated average power meter can be used to perform the
	measurement if the gating parameters can be adjusted such that the power is
	measured only over active transmission bursts at maximum output power
	levels. A conventional average power meter can also be used if the
	measured burst duty cycle is constant (i.e., duty cycle variations are less than
	± 2 percent) by performing the measurement over the on/off burst cycles and
	then correcting (increasing) the measured level by a factor equal to
	10log(1/duty cycle)
Remark	
Result	Pass Fail

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	✓ _{N/A}



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GSM 1900 PK-AV POWER (PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak Average		Ratio(PAR)
1850.2	29.36	28.95	0.41
1880	29.55	28.67	0.88
1909.8	29.54	28.73	0.81

GPRS 1900 PK-AV POWER (PART 24E)

Frequency	Conducted power(dBm)		Peak-Average
(MHz)	Peak	Average	Ratio(PAR)
1850.2	29.45	28.85	0.6
1880	29.42	28.63	0.79
1909.8	29.48	28.72	0.76



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6.4 Occupied Bandwidth

Temperature	22°C
Relative Humidity	58%
Atmospheric Pressure	1025mbar
Test date :	July 25, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§2.1049,	a)	99% Occupied Bandwidth(kHz)	
§22.917,			
§22.905	b)	26 dB Bandwidth(kHz)	V
§24.238			
Test Setup			
	_	The EUT was connected to Spectrum Analyzer and Base	Station via
Test		power divider.	
Procedure	-	The 99% and 26 dB occupied bandwidth (BW) of the mide	dle channel
		for the highest RF powers.	
Remark			
Result	☑ Pa	rss Fail	

Test Data

Yes

N/A

Test Plot

Yes (See below)



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GSM Voice:

Cellular Band (Part 22H) result

Channel	Frequency	99% Occupied	26 dB Bandwidth
Grianner	(MHz)	Bandwidth (kHz)	(kHz)
128	824.2	248.4509	317.400
190	836.6	247.9701	319.942
251	848.8	244.1576	319.557

PCS Band (Part 24E) result

Channal	Frequency	99% Occupied	26 dB Bandwidth
Channel	(MHz)	Bandwidth (kHz)	(kHz)
512	1850.2	243.7032	315.119
661	1880.0	247.2165	320.284
810	1909.8	244.1989	318.162

GPRS Mode:

Cellular Band (Part 22H) result

Channal	Frequency	99% Occupied	26 dB Bandwidth
Channel	(MHz)	Bandwidth (kHz)	(kHz)
128	824.2	249.1979	319.532
190	836.6	245.4033	318.318
251	848.8	246.1959	322.925

PCS Band (Part 24E) result

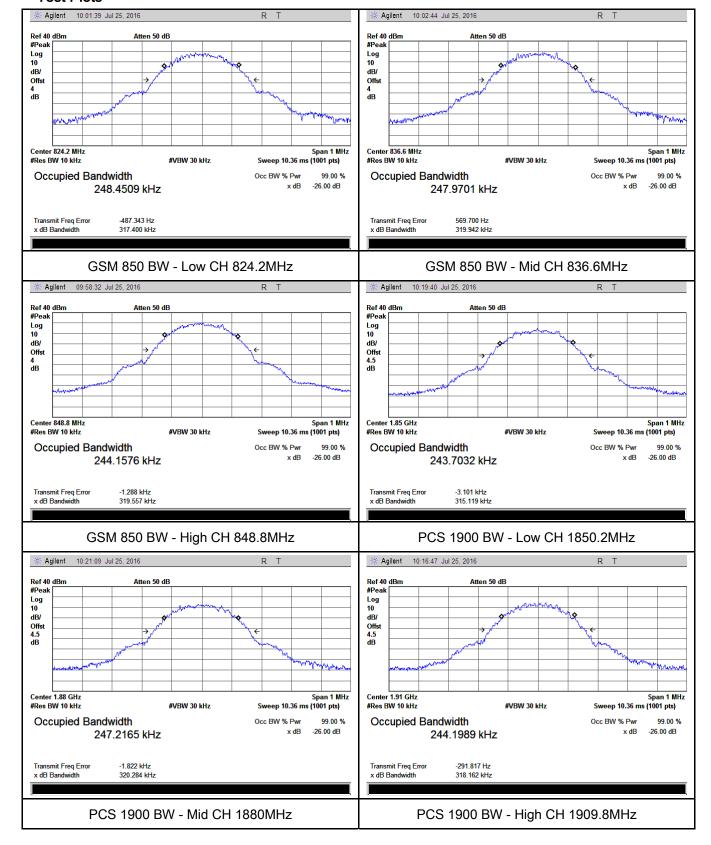
Channel	Frequency (MHz)	99% Occupied Bandwidth (kHz)	26 dB Bandwidth (kHz)
512	1850.2	239.9153	312.000
661	1880.0	247.9755	318.954
810	1909.8	243.8653	321.306



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GSM Mode:

Test Plots

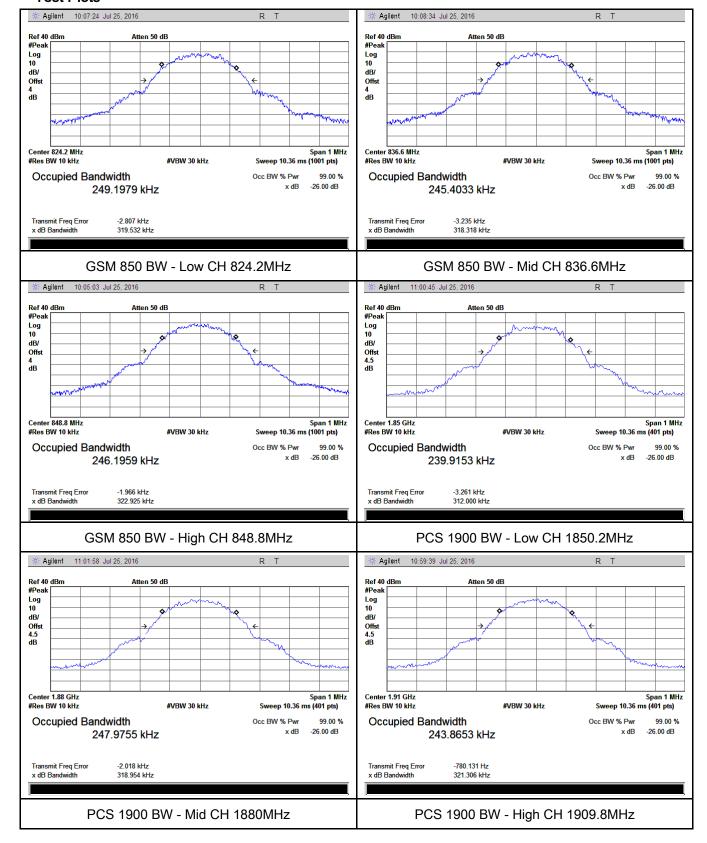




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GPRS Mode:

Test Plots





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6.5 Spurious Emissions at Antenna Terminals

Temperature	22°C
Relative Humidity	58%
Atmospheric Pressure	1025mbar
Test date :	July 25, 2016
Tested By :	Loren Luo

Requirement(s):

rtequirement(s).	l	_ · · ·	
Spec	Item	Requirement	Applicable
§2.1051, §22.917(a)& §24.238(a)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB	V
Test Setup			
Test Procedure	-	The EUT was connected to Spectrum Analyzer and Basivia power divider. The Band Edges of low and high channels for the highest powers were measured. Setting RBW as roughly BW/100.	
Remark			
Result	☑ Pa	ss Fail	

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}

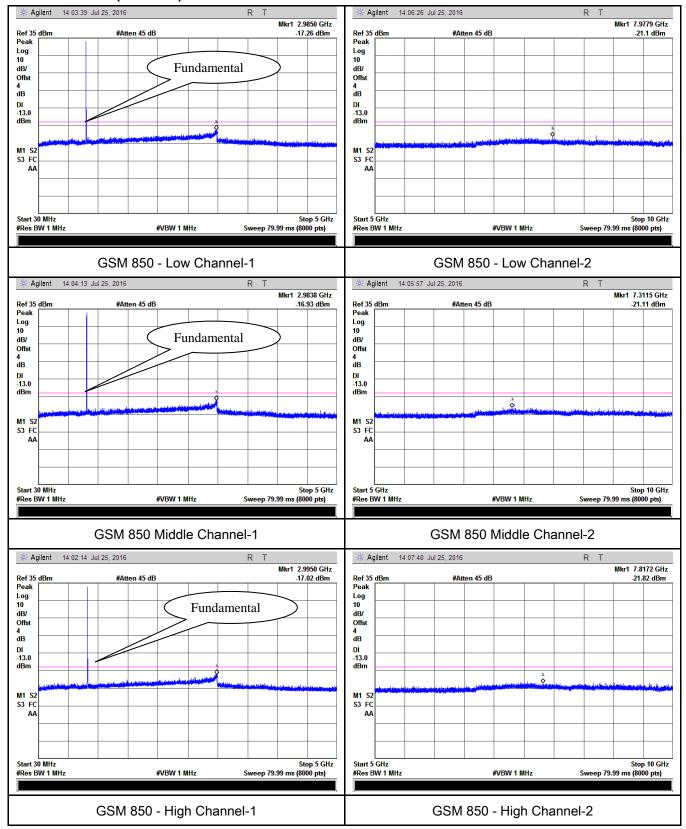


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GSM Mode:

Test Plots

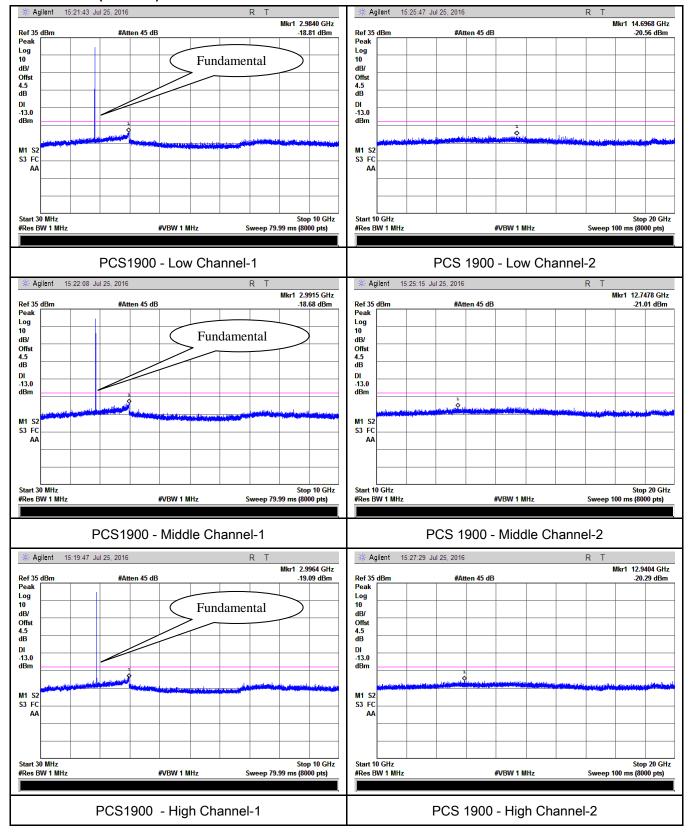
Cellular Band (Part 22H) result





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PCS Band (Part24E) result



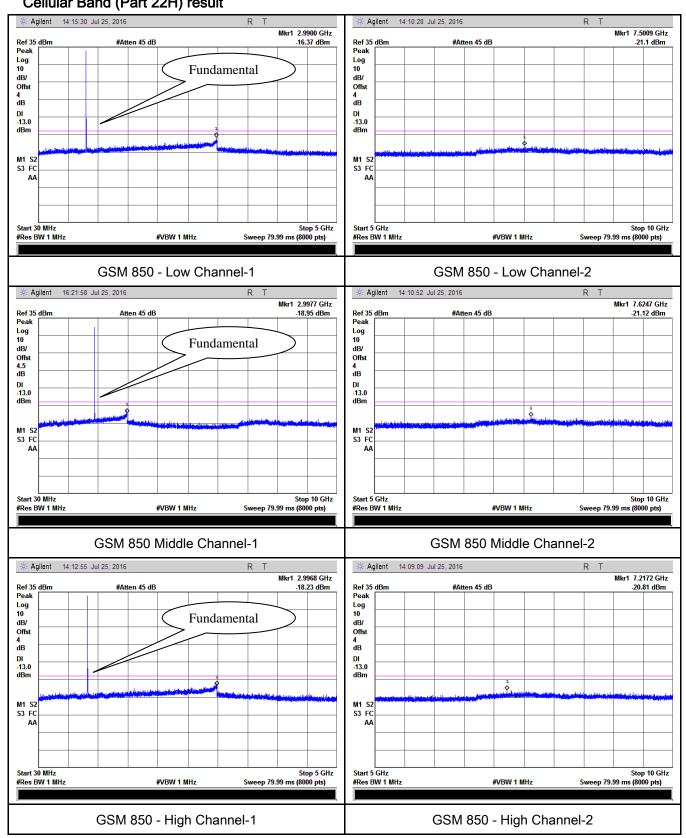


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GPRS Mode:

Test Plots

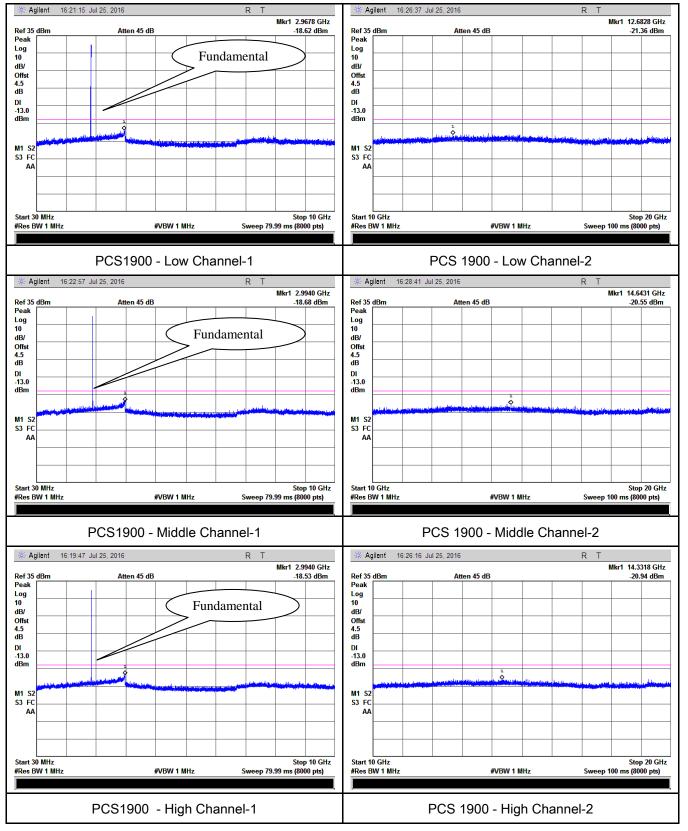
Cellular Band (Part 22H) result





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PCS Band (Part24E) result





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6.6 Spurious Radiated Emissions

Temperature	22°C
Relative Humidity	58%
Atmospheric Pressure	1025mbar
Test date :	July 25, 2016
Tested By :	Loren Luo

Requirement(s):

Requirement(s):			
Spec	Item	Requirement	Applicable
§2.1053, §22.917 & §24.238	a)	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.	\
Test setup	EUTé Suppo	Turn Table	le
Test Procedure	rad 2. The Dur vari was 3. Rer con of th Sar	e transmitter was placed on a wooden turntable, and it was transmitiating load which was also placed on the turntable. In measurement antenna was placed at a distance of 3 meters from the tests, the antenna height and polarization as well as EUT at the din order to identify the maximum level of emissions from the EUS performed by placing the EUT on 3-orthogonal axis. Innove the EUT and replace it with substitution antenna. A signal genected to the substitution antenna by a non-radiating cable. The at the spurious emissions were measured by the substitution. In Field Strength = Raw Amplitude (dBµV/m) — Amplifier Gain (distor (dB) + Cable Loss (dB) + Filter Attenuation (dB, if used)	a the EUT. azimuth were JT. The test enerator was bsolute levels



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Remark				
Result	Pass	Fail		

Test Data Yes

Test Plot Yes (See below) N/A



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GSM Voice:

Cellular Band (Part 22H) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1648.4	-44.53	V	7.95	0.78	-37.36	-13	-24.36
1648.4	-45.07	Η	7.95	0.78	-37.9	-13	-24.9
351.7	-52.98	V	6.4	0.26	-46.84	-13	-33.84
569.3	-52.71	Η	6.8	0.37	-46.28	-13	-33.28

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1673.2	-44.68	V	7.95	0.78	-37.51	-13	-24.51
1673.2	-44.94	Η	7.95	0.78	-37.77	-13	-24.77
351.5	-52.81	V	6.4	0.26	-46.67	-13	-33.67
569.8	-52.67	Н	6.8	0.37	-46.24	-13	-33.24

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
1697.6	-45.27	V	7.95	0.78	-38.1	-13	-25.10
1697.6	-44.91	Н	7.95	0.78	-37.74	-13	-24.74
351.3	-52.86	V	6.4	0.26	-46.72	-13	-33.72
569.4	-52.74	Н	6.8	0.37	-46.31	-13	-33.31

Note:

- 1, The testing has been conformed to 10*848.8MHz=8,488MHz
- 2, All other emissions more than 30 dB below the limit
- 3,GSM voice, GPRS mode were investigated. The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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PCS Band (Part24E) result

Low channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3700.4	-47.95	V	10.25	2.73	-40.43	-13	-27.43
3700.4	-48.31	Н	10.25	2.73	-40.79	-13	-27.79
350.8	-53.46	V	6.4	0.26	-47.32	-13	-34.32
568.3	-53.24	Н	6.8	0.37	-46.81	-13	-33.81

Middle channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3760	-47.89	V	10.25	2.73	-40.37	-13	-27.37
3760	-48.42	Н	10.25	2.73	-40.9	-13	-27.9
350.5	-53.51	V	6.4	0.26	-47.37	-13	-34.37
568.9	-53.37	Н	6.8	0.37	-46.94	-13	-33.94

High channel

Frequency (MHz)	Substituted level (dBm)	Polarity (H/V)	Antenna Gain Correction (dB)	Cable Loss (dB)	Corrected Reading (dBm)	Limit (dBm)	Margin (dB)
3819.6	-47.81	V	10.36	2.73	-40.18	-13	-27.18
3819.6	-48.35	Н	10.36	2.73	-40.72	-13	-27.72
350.4	-53.39	V	6.4	0.26	-47.25	-13	-34.25
568.7	-53.22	Н	6.8	0.37	-46.79	-13	-33.79

Note:

- 1, The testing has been conformed to 10*1909.8MHz=19,098MHz
- 2, All other emissions more than 30 dB below the limit
- $3,GSM\ voice$, $GPRS\ mode\ were\ investigated.$ The results above show only the worse cases
- 4, X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



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6.7 Band Edge

Temperature	22°C
Relative Humidity	58%
Atmospheric Pressure	1025mbar
Test date :	July 25, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement	Applicable
§22.917(a) §24.238(a)	a)	The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.	>
Test setup			
Procedure	-	The EUT was connected to Spectrum Analyzer and Base S power divider. The Band Edges of low and high channels for the highest R were measured. Setting RBW as roughly BW/100.	
Remark			
Result	✓ Pa	ss Fail	

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	□ _{N/A}



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GSM Mode:

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.998	-14.95	-13
849.0200	-16.43	-13

PCS Band (Part24E) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.995	-15.61	-13
1910.020	-16.52	-13

GPRS Mode:

Cellular Band (Part 22H) result

Frequency (MHz)	Emission (dBm)	Limit (dBm)
823.978	-15.74	-13
849.023	-14.97	-13

PCS Band (Part24E) result

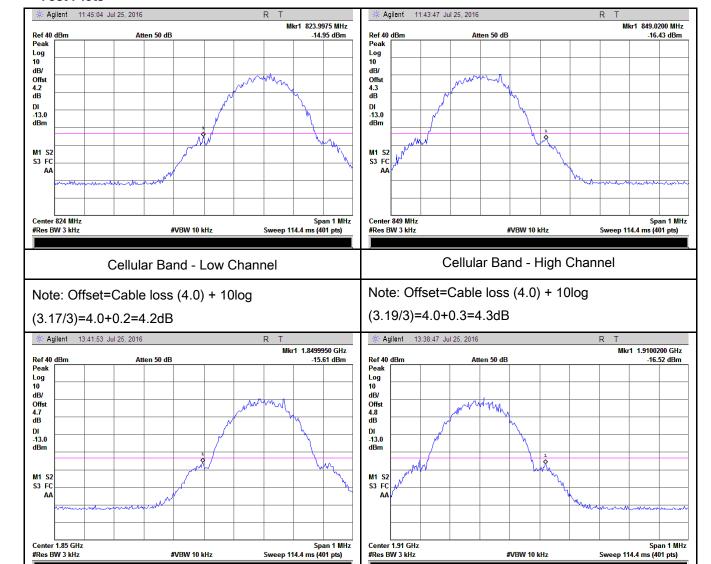
Frequency (MHz)	Emission (dBm)	Limit (dBm)
1849.995	-16.95	-13
1910.028	-17.34	-13



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GSM Mode:

Test Plots



PCS Band - Low Channel

Note: Offset=Cable loss (4.5) + 10log

(3.15/3)=4.5+0.2=4.7dB

PCS Band - High Channel

Note: Offset=Cable loss (4.5) + 10log

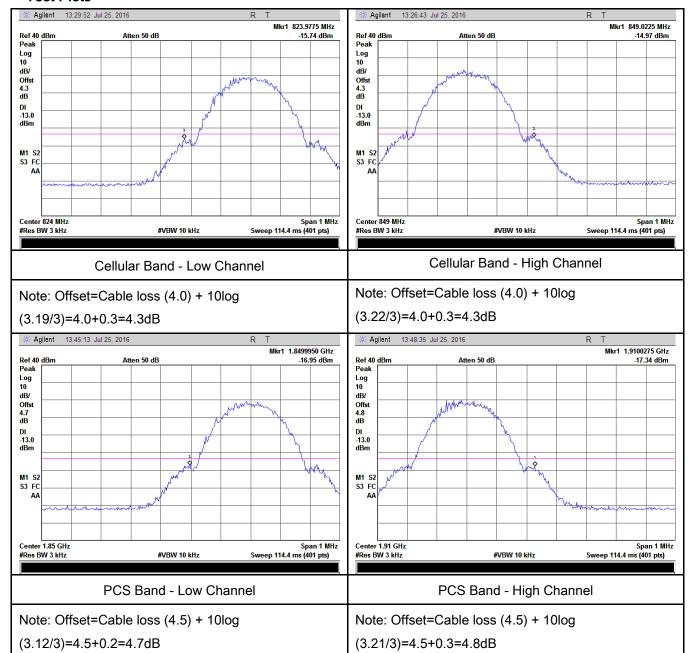
(3.18/3)=4.5+0.3=4.8dB



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GPRS Mode:

Test Plots





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6.8 Frequency Stability

Temperature	22°C
Relative Humidity	58%
Atmospheric Pressure	1025mbar
Test date :	July 25, 2016
Tested By :	Loren Luo

Requirement(s):

Spec	Item	Requirement				Applicable
§2.1055,	According to §22.3 the Public Mobile S tolerances given in Frequency Toleran Services Frequency Range (MHz) 25 to 50	Services mus Table below	et be maintained w	ithin the		
§22.355 & §24.235	a)	50 to 450 45 to 512 821 to 896 928 to 29. 929 to 960. 2110 to 2220 According to §24.2 ensure that the fun frequency block.	5.0 2.5 1.5 5.0 1.5 10.0 35, the frequ	5.0 5.0 2.5 N/A N/A N/A sency stability sha	50.0 .0 2.5 N/A N/A N/A Il be sufficient to	
Test setup						



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	A communication link was established between EUT and base station. The
	frequency error was monitored and measured by base station under variation
Procedure	of ambient temperature and variation of primary supply voltage.
	Limit: The frequency stability of the transmitter shall be maintained within
	±0.00025% (±2.5ppm) of the center frequency.
Remark	
Result	Pass Fail

Test Data	Yes	□ _{N/A}
Test Plot	Yes (See below)	✓ _{N/A}



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GSM Mode:

Cellular Band (Part 22H) result

	Middle Channel, f₀ = 836.6 MHz			
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		19	0.0227	2.5
0	3.7	17	0.0203	2.5
10		14	0.0167	2.5
20		13	0.0155	2.5
30		12	0.0143	2.5
40		10	0.0120	2.5
50		12	0.0143	2.5
55		16	0.0191	2.5
25	4.2	19	0.0227	2.5
25	3.5	17	0.0203	2.5

PCS Band (Part 24E) result

	Middle Channel, f _o = 1880 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		15	0.0080	2.5	
0		16	0.0085	2.5	
10	3.7	14	0.0074	2.5	
20		10	0.0053	2.5	
30		19	0.0101	2.5	
40		11	0.0059	2.5	
50		13	0.0069	2.5	
55		14	0.0074	2.5	
25	4.2	20	0.0106	2.5	
25	3.5	17	0.0090	2.5	



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GPRS Mode:

Cellular Band (Part 22H) result

	Middle Channel, f₀ = 836.6 MHz			
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
-10		21	0.0251	2.5
0	3.7	17	0.0203	2.5
10		16	0.0191	2.5
20		11	0.0131	2.5
30		13	0.0155	2.5
40		17	0.0203	2.5
50		12	0.0143	2.5
55		19	0.0227	2.5
25	4.2	20	0.0239	2.5
25	3.5	19	0.0227	2.5

PCS Band (Part 24E) result

	Middle Channel, f _o = 1880 MHz				
Temperature (°C)	Power Supplied (V _{DC})	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)	
-10		18	0.0096	2.5	
0	3.7	17	0.0090	2.5	
10		15	0.0080	2.5	
20		11	0.0059	2.5	
30		11	0.0059	2.5	
40		14	0.0074	2.5	
50		13	0.0069	2.5	
55		11	0.0059	2.5	
25	4.2	19	0.0101	2.5	
25	3.5	20	0.0106	2.5	



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Annex A. TEST INSTRUMENT

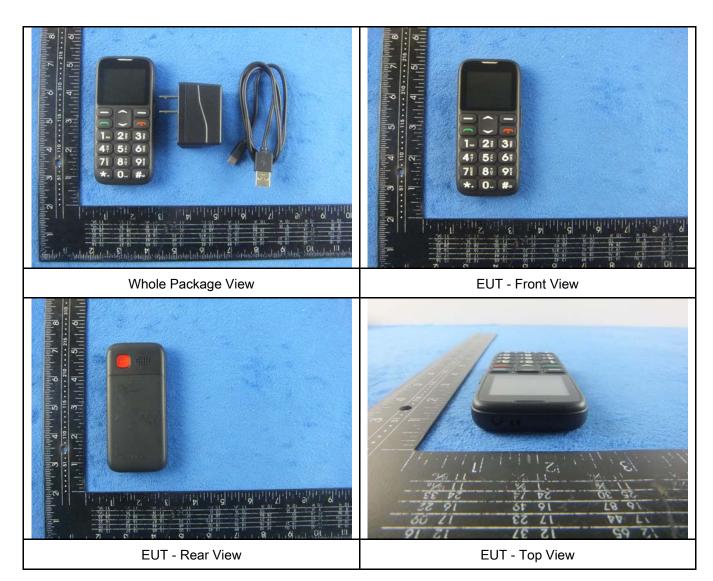
Instrument	Model	Serial #	Cal Date	Cal Due	In use
RF Conducted Test		L			
Agilent ESA-E SERIES SPECTRUM ANALYZER	E4407B	MY45108319	09/16/2015	09/15/2016	V
Power Splitter	1#	1#	09/01/2015	08/31/2016	~
Universal Radio Communication Tester	CMU200	121393	09/25/2015	09/24/2016	V
Temperature/Humidity Chamber	UHL-270	001	10/09/2015	10/08/2016	V
DC Power Supply	E3640A	MY40004013	09/17/2015	09/16/2016	~
Radiated Emissions					
EMI test receiver	ESL6	100262	09/17/2015	09/16/2016	~
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/01/2015	08/31/2016	V
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/24/2016	03/23/2017	V
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/21/2015	09/20/2016	V
Bilog Antenna (30MHz~2GHz)	JB1	A112017	09/21/2015	09/20/2016	<u>\</u>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71259	09/24/2015	09/23/2016	<u> </u>
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/24/2015	09/23/2016	\
SYNTHESIZED SIGNAL GENERATOR	8665B	3744A01293	09/17/2015	09/16/2016	V
Tunable Notch Filter	3NF- 800/1000-S	AA4	09/01/2015	08/31/2016	V
Tunable Notch Filter	3NF- 1000/2000-S	AM 4	09/01/2015	08/31/2016	V



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Annex B. EUT And Test Setup Photographs

Annex B.i. Photograph: EUT External Photo





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EUT - Bottom View

EUT - Left View



EUT - Right View



Adapter - Front View



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Annex B.ii. Photograph: EUT Internal Photo

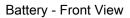




Cover Off - Top View 1

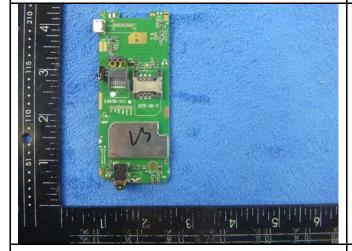
Cover Off - Top View 2



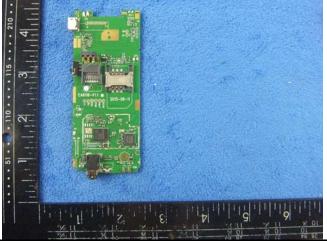




Battery - Rear View



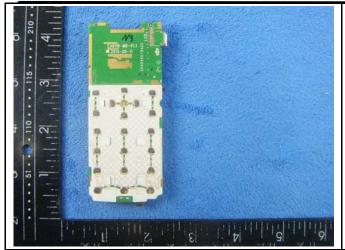
Mainboard with Shielding - Front View

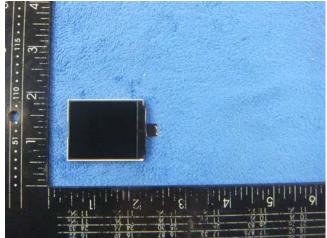


Mainboard without Shielding - Front View



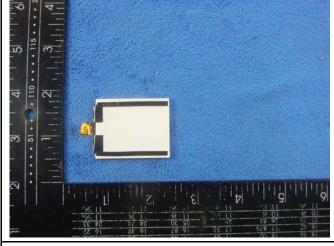
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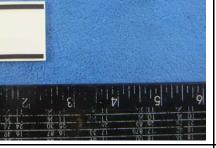




Mainboard - Rear View

LCD - Front View







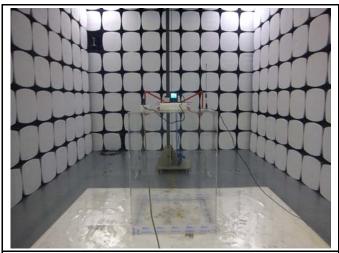
LCD - Rear View

GSM/PCS Antenna View

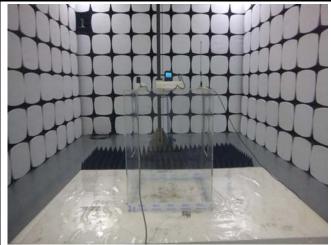


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Annex B.iii. Photograph: Test Setup Photo



Radiated Spurious Emissions Test Setup Below 1GHz



Radiated Spurious Emissions Test Setup Above 1GHz

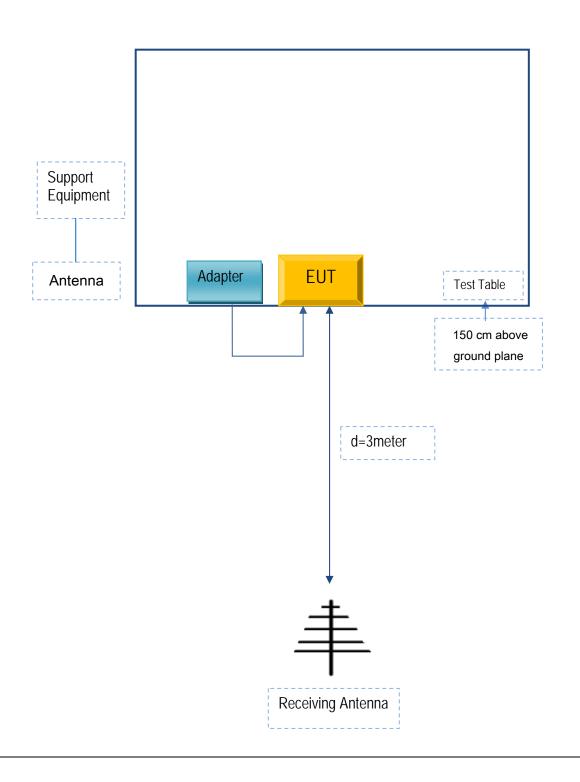


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Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

Block Configuration Diagram for Radiated Emissions





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Annex C. il. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Supporting Equipment:

Manufacturer	Equipment Description	Model	Serial No
Shenzhen Vitek Electronics Co., Ltd	AC Adapter	RLTP169-BLACK	S71001

Supporting Cable:

Cable type	Shield Type	Ferrite Core	Length	Serial No
USB Cable	Un-shielding	No	0.8m	S71001



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Annex C.ii. EUT OPERATING CONKITIONS

N/A



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Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment



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Annex E. DECLARATION OF SIMILARITY

Vitek Electronics International Co.,Ltd

To: 775 Montague Expressway Mlpitas, CA 95035, USA

Declaration Letter

Dear Sir,

For our business issue and marketing requirement, we would like to list 3 model numbers on The FCC reports, as following:

Model No: RLTP169 -BLACK, T19, S19Y

Trade: RCA, VITEK, VTEX FCC ID: 2AI3CRLTP169-BLACK

We declare that : RLTP169 -BLACK, T19, S19Y, All models the same PCB and Appearance

shape, accessories ,the difference of these is listed as below:

Main Model No	Serial Model No	Difference	
RLTP169 -BLACK	T19, S19Y	Model and trade mark	

Thank you!

Sincerely,

Client's signature :

Client's name / title: SHI SHENG LI /Manager

G Shi sheuz Contact information : Vitek Electronics International Co. Ltd.

Address: Rm 2202, Leizhen Building, Fuming Rd, Shen Zhen, China