

# Global United Technology Services Co., Ltd.

Report No.: GTSE15050083501

# FCC Report (GSM&WCDMA)

Applicant: **AOC** 

14F-5, No. 258, Liancheng Rd., Zhonghe Dist., New Taipei City Address of Applicant:

23511, Taiwan (R.O.C.)

**Equipment Under Test (EUT)** 

Product Name: Tablet

Model No.: U706G

Trade Mark: AOC

FCC ID: 2AEB5-U706G

FCC CFR Title 47 Part 2: 2014 Applicable standards:

> FCC CFR Title 47 Part22 Subpart H: 2014 FCC CFR Title 47 Part24 Subpart E: 2014

Date of sample receipt: June 05, 2015

June 05-11, 2015 Date of Test:

Date of report issued: June 11, 2015

Test Result: PASS \*

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

# Authorized Signature:



This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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# 2 Version

Version No.	Date	Description
00	June 11, 2015	Original

Sam. Gao	Date:	June 11, 2015
Project Engineer		
hank. yan	Date:	June 11, 2015
	Project Engineer	Project Engineer

Reviewer



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4 Test Summary

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Pass* (Please refer to SAR Report)
RF Output Power	Part 2.1046 Part 22.913 (a)(2) Part 24.232 (c)	Pass
Modulation Characteristics	Part 2.1047	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917 Part 24.238	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 (a) Part 24.238 (a)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a)	Pass
Out of band emission, Band Edge	Part 22.917 (a) Part 24.238 (a)	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2)	Pass

Pass: The EUT complies with the essential requirements in the standard.



# 5 General Information

# 5.1 Client Information

Applicant:	AOC
Address of Applicant:	14F-5, No. 258, Liancheng Rd., Zhonghe Dist.,New Taipei City 23511, Taiwan (R.O.C.)
Manufacturer:	New Flying
Address of Manufacturer:	10/F Block C,Tairan Building,Tairan 8 Road, Chegongmiao, District, Shenzhen City, Guangdong Province, China

# 5.2 General Description of EUT

 Control Booch patent of Lot					
Product Name:	Tablet				
Model No.:	U706G				
Support Networks:	GSM, GPRS, EGPRS, WCDMA				
Support Bands:	GSM850, PCS1900, WCDMA Band II, Band V				
TX Frequency:	GSM850: 824.20MHz-848.80MHz				
	PCS1900: 1850.20MHz-1909.80MHz				
	WCDMA Band II: 1852.40MHz -1907.60MHz				
	WCDMA Band V: 826.40MHz -846.60MHz				
GPRS Class:	12				
Modulation type:	GSM/GPRS: GMSK				
	EGPRS: GMSK/8PSK				
	WCDMA Band II/V: QPSK				
IMEI:	351548071929049				
	351548071929056				
Hardware Version:	PX6S706 REV:1.1				
Software Version:	F719-SG-1+8-ww14-2015-06-15-21:05:19				
Antenna type:	PIFA antenna				
Antenna gain:	0.37dBi(GSM850)				
	2.84dBi(DCS1900)				
Power supply:	Model No.: XFY-01				
	Input: AC 100-240V, 50/60Hz, 0.4A MAX				
	Output: DC 5.0V, 1.5A				
	DC 3.7V Li-ion Battery 2800mAh				



**Operation Frequency List:** 

GSM 850		PCS1900		WCDMA Band V		WCDMA Band II	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
128	824.20	512	1850.20	4132	826.40	9262	1852.40
129	824.40	513	1850.40	4133	826.60	9263	1852.60
· :	· :	• :	• :	• ;	• :	· :	· :
189	836.40	660	1879.80	4181	836.20	9399	1879.80
190	836.60	661	1880.00	4182	836.40	9400	1880.00
191	836.80	662	1880.20	4183	836.60	9401	1880.20
· :	· :	• :	• :	• ;	• :	· :	· :
250	848.60	809	1909.60	4232	846.40	9537	1907.40
251	848.80	810	1909.80	4233	846.60	9538	1907.60

Regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

# Final test channel:

GSM 850		PCS1900		WCDMA Band V		WCDMA Band II	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
128	824.20	512	1850.20	4132	826.40	9262	1852.40
190	836.60	661	1880.00	4183	836.60	9400	1880.00
251	848.80	810	1909.80	4233	846.60	9538	1907.60

No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



# 5.3 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

# 5.4 Test Methodology

Both conducted and radiated testing were performed according to the procedures document on TIA/EIA 603 and FCC CFR 47.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055 and 2.1057

# 5.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

#### • FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

#### • Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

#### 5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102

Tel: 0755-27798480 Fax: 0755-27798960

Global United Technology Services Co., Ltd.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960

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# 6 Test Instruments list

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Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 27 2015	Mar. 26 2016
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015
6	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A
8	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016
9	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016
10	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016
11	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016
12	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	July 01 2014	June 30 2015
13	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015
14	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015
15	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016
16	Universal radio communication tester	Rohde & Schwarz	CMU200	GTS235	May 08 2015	May 07 2016
17	Signal Generator	Rohde & Schwarz	SML03	GTS236	May 08 2015	May 07 2016
18	Temp. Humidity/ Barometer	Oregon Scientific	BA-888	GTS248	May 08 2015	May 07 2016
19	D.C. Power Supply	Instek	PS-3030	GTS232	NA	NA
20	Splitter	Agilent	11636B	GTS237	May 08 2015	May 07 2016
21	Power meter	Rohde & Schwarz	NRVS	GTS238	May 08 2015	May 07 2016
22	Spectrum Analyzer	Agilent	E4440A	GTS533	Dec. 4 2014	Dec. 3 2015
23	Temp.&Humidity chamber	Chuang wei	GDS-225	GTS005-1	May 06 2015	May 05 2016
24	Highpass filter	Micro-Tronics	HPM50108	GTS549	Mar. 28 2015	Mar. 27 2016
25	Highpass filter	Micro-Tronics	HPM50111	GTS550	Mar. 28 2015	Mar. 27 2016



# 7 System test configuration

# 7.1 Test mode

During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes								
Band	Radiated	Conducted						
GSM 850	■ GSM link	■ GSM link						
	■ GPRS 1 link	■ GPRS 1 link						
	■ EGPRS 1 link	■ EGPRS 1 link						
PCS 1900	■ GSM link	■ GSM link						
	■ GPRS 1 link	■ GPRS 1 link						
	■ EGPRS 1 link	■ EGPRS 1 link						
WCDMA II	■ RMC 12.2Kbps link	■ RMC 12.2Kbps link						
WCDMA Band V	■ RMC 12.2Kbps link	■ RMC 12.2Kbps link						

Note: The maximum power levels are GSM mode for GMSK link, GPRS multi-slot class 4 mode for GMSK link, EGPRS multi-slot class 8 mode for 8PSK link, RMC12.2Kbps mode for WCDMA Band V. only these modes were used for all tests.

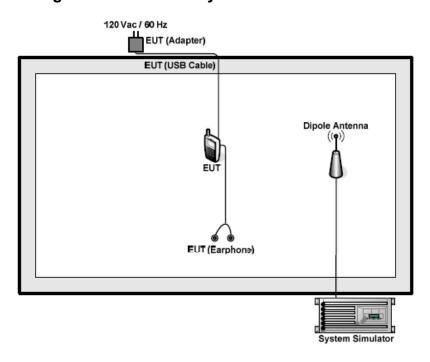
The conducted power tables are as follows:

	The contacted perior tubics are as islicite.							
Conducted Power (dBm)								
Band		GSM850			PCS1900			
Channel	128	190	251	512	661	810		
Frequency	824.20	836.60	848.80	1850.20	1880.00	1909.80		
GSM (GMSK, 1 TX slot)	32.78	32.93	32.98	28.96	29.07	29.28		
GPRS (GMSK, 1 TX slot)	32.74	32.85	32.86	28.91	29.01	29.17		
GPRS (GMSK, 2 TX slot)	31.93	31.95	31.81	27.81	27.90	27.97		
GPRS (GMSK, 3 TX slot)	30.91	30.83	30.74	26.62	26.84	26.81		
GPRS (GMSK, 4 TX slot)	29.83	29.65	29.86	25.97	26.03	25.96		
EGPRS (8PSK, 1 TX slot)	31.76	31.87	31.88	27.93	28.03	28.19		
EGPRS (8PSK, 2 TX slot)	31.09	31.11	30.97	26.97	27.06	27.13		
EGPRS (8PSK, 3 TX slot)	30.03	29.95	29.86	25.74	25.96	25.93		
EGPRS (8PSK, 4 TX slot)	28.83	28.65	28.86	24.97	25.03	24.96		



Conducted Power (dBm)							
Band	W	CDMA Band	l II	WCDMA Band V			
Channel	9262	9400	9538	4132	4183	4233	
Frequency	1852.4	1880.0	1907.6	826.4	836.6	846.6	
RMC 12.2Kbps	22.48	22.61	22.26	22.55	22.79	23.00	
HSDPA Subtest-1	22.21	22.39	22.59	22.15	22.27	22.48	
HSDPA Subtest-2	19.95	20.56	20.78	20.36	20.59	20.36	
HSDPA Subtest-3	19.01	19.52	19.55	19.29	19.48	19.38	
HSDPA Subtest-4	18.93	19.21	19.26	19.12	19.36	18.61	
HSUPA Subtest-1	22.28	22.27	22.50	22.17	22.35	22.56	
HSUPA Subtest-2	19.53	19.91	20.44	19.58	19.86	20.53	
HSUPA Subtest-3	18.41	18.59	19.53	18.47	18.52	19.56	
HSUPA Subtest-4	18.21	18.42	19.65	19.26	19.49	19.66	
HSUPA Subtest-5	20.94	21.19	21.34	20.83	21.28	21.12	
AMR	22.18	22.33	22.09	22.23	22.42	22.58	

# 7.2 Configuration of Tested System





# 7.3 Conducted Peak Output Power

Test Requirement:	FCC part22.913(a) and FCC part24.232(b)		
Test Method:	FCC part2.1046		
Limit:	GSM850,: 7W		
	PCS1900, WCDMA Band V: 2W		
Test setup:	EUT Splitter Communication Tester  Power meter		
	Note: Measurement setup for testing on Antenna connector		
Test Procedure:	The transmitter output port was connected to base station.		
	The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement.		
	3. Set EUT at maximum power through base station.		
	Select lowest, middle, and highest channels for each band and different modulation.		
	5. Measure the maximum burst average power.		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

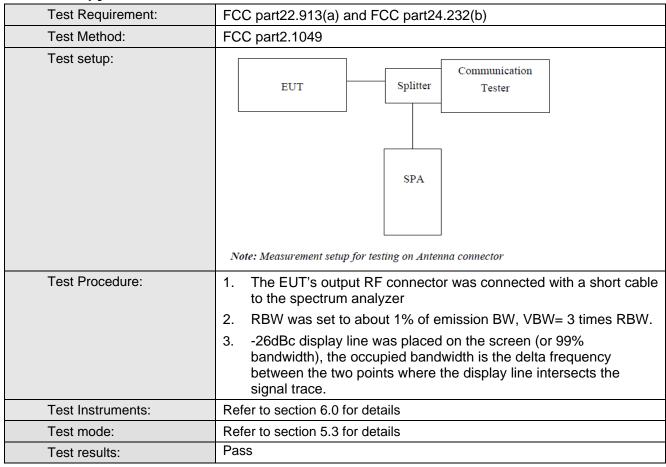


#### Measurement Data

EUT Mode	Channel	Frequency (MHz)	PK power (dBm)
0011070	128	824.20	32.98
GSM 850 (GSM link)	190	836.60	32.86
(CONT IIIIN)	251	848.80	31.95
	128	824.20	30.91
GSM 850 (GPRS 1 link)	190	836.60	29.86
(Of NO 1 liftik)	251	848.80	31.88
	128	824.20	31.11
GSM 850 (EGPRS 1 link)	190	836.60	30.03
(LOT NO 1 min)	251	848.80	28.86
200 / 200	512	1850.20	29.28
PCS 1900 (GSM link)	661	1880.00	29.17
(OOW IIIIK)	810	1909.80	27.97
	512	1850.20	26.84
PCS 1900 (GPRS 1 link)	661	1880.00	26.03
(GFKS Fillik)	810	1909.80	28.19
	512	1850.20	27.13
PCS 1900 (EGPRS 1 link)	661	1880.00	25.96
(EGFK3 I IIIK)	810	1909.80	25.03
	4132	826.40	22.55
WCDMA Band V (RMC 12.2Kbps link)	4183	836.60	22.79
(INIVIO 12.2NUPS IIIIK)	4233	846.60	23.00
	9262	1852.4	22.48
WCDMA Band II (RMC 12.2Kbps link)	9400	1880.0	22.61
(1.1.1.5 12.21.000 11.11)	9538	1907.6	22.69



# 7.4 Occupy Bandwidth





#### Measurement Data

EUT Mode	Channel	Frequency (MHz)	99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
GSM 850 (GSM link)	128	824.20	249.650	319.091
	190	836.60	249.828	320.080
(COM mint)	251	848.80	246.229	318.421
	128	824.20	249.650	319.091
GSM 850 (GPRS 1 link)	190	836.60	242.213	321.422
(Of NO 1 min)	251	848.80	242.319	316.410
	128	824.20	237.268	316.238
GSM 850 (EGPRS 1 link)	190	836.60	258.742	321.657
(LGFRS Tillik)	251	848.80	247.007	322.790
	512	1850.20	244.086	316.304
PCS 1900 (GSM link)	661	1880.00	245.326	321.005
	810	1909.80	245.513	315.474
D00 4000	512	1850.20	244.755	317.180
PCS 1900 (GPRS 1 link)	661	1880.00	246.154	314.768
	810	1909.80	241.301	316.517
	512	1850.20	250.685	328.563
PCS 1900 (EGPRS 1 link)	661	1880.00	242.851	323.892
	810	1909.80	250.467	324.665
	4132	826.40	4073.70	4630.00
WCDMA Band V (RMC 12.2Kbps link)	4183	836.60	4135.60	5696.00
	4233	846.60	4050.90	4573.00
WCDMA Band II (RMC 12.2Kbps link)	9262	1852.4	4063.90	4633.00
	9400	1880.0	4056.00	4640.00
	9538	1907.6	4054.70	4641.00

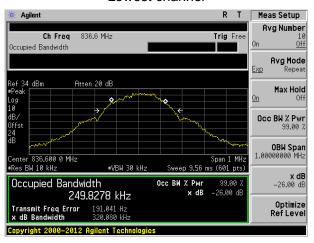
Test plot as follows:

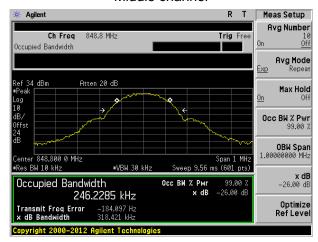


Test band: GSM 850 (GSM link)



#### Lowest channel



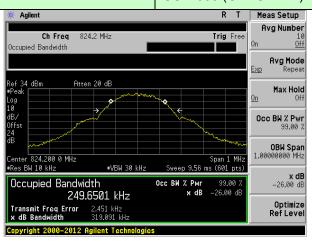


Highest channel

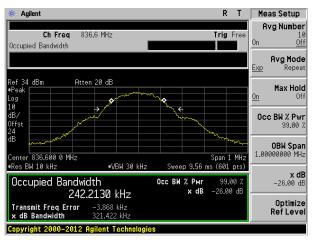


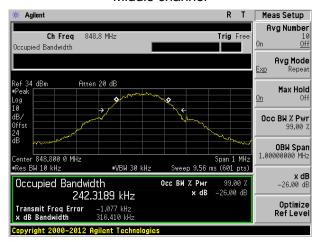
Test band:

# GSM 850 (GPRS 1 link)



#### Lowest channel



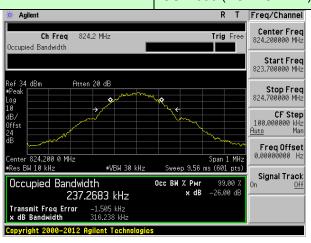


Highest channel

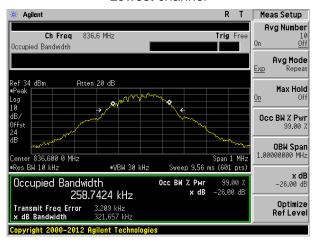


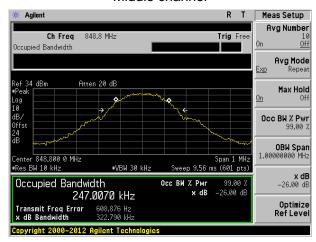
Test band:

GSM 850 (EGPRS 1 link)



#### Lowest channel



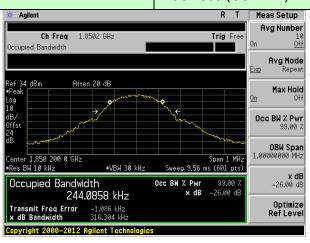


Highest channel

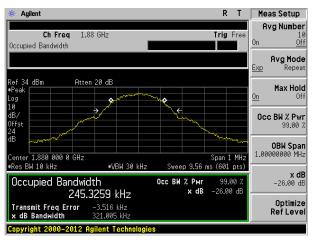


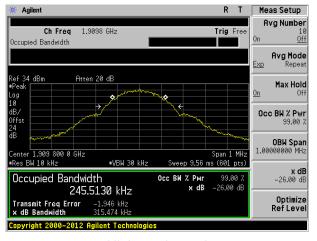
Test band:

# PCS 1900 (GSM link)



#### Lowest channel

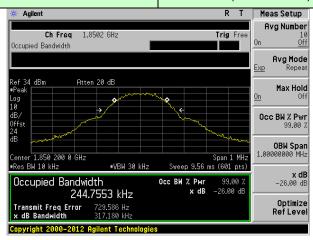




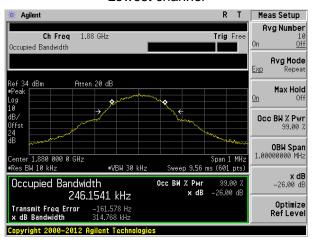
Highest channel

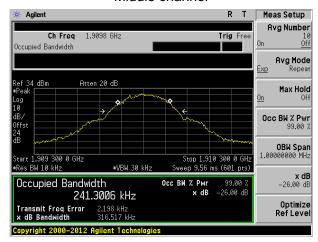


Test band: PCS 1900 (GPRS 1 link)



#### Lowest channel





Highest channel

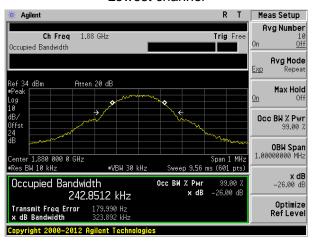


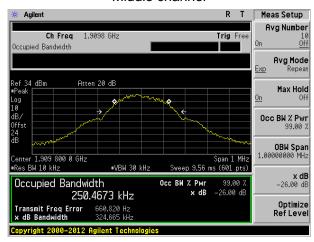
Test band:

# PCS 1900 (EGPRS 1 link)



#### Lowest channel



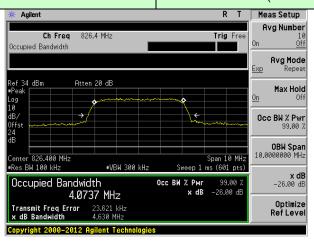


Highest channel

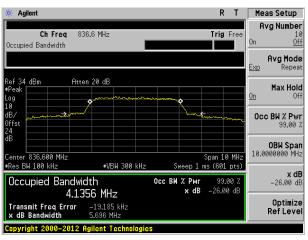


Test band:

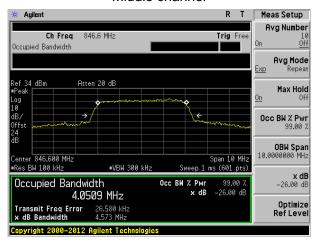
# WCDMA Band V (RMC 12.2Kbps link)



#### Lowest channel



#### Middle channel

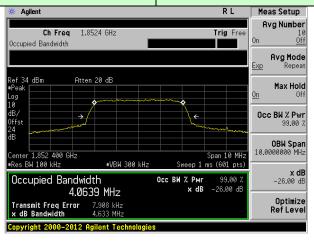


Highest channel:

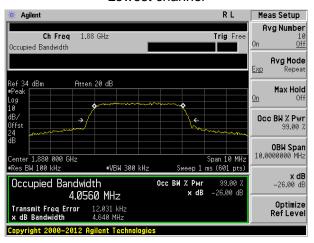


Test band:

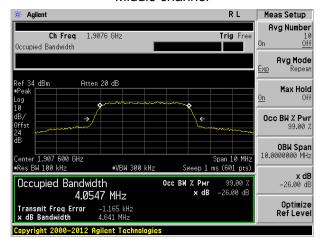
# WCDMA Band II (RMC 12.2Kbps link)



#### Lowest channel



#### Middle channel



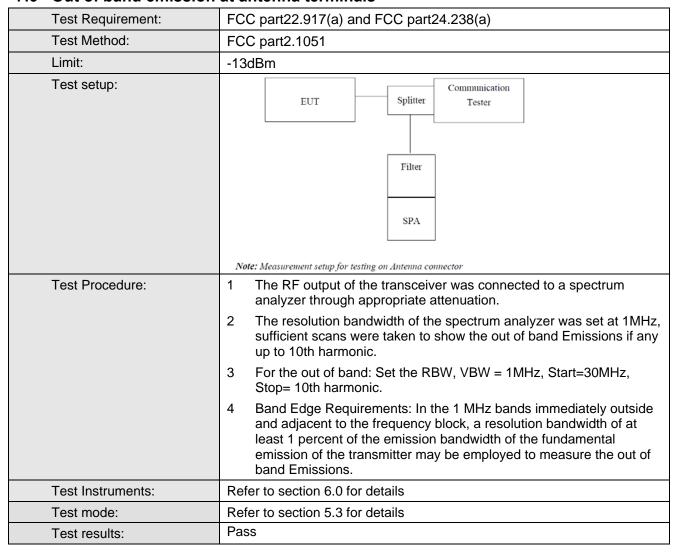
Highest channel:



#### 7.5 MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 22H & 24E there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

# 7.6 Out of band emission at antenna terminals



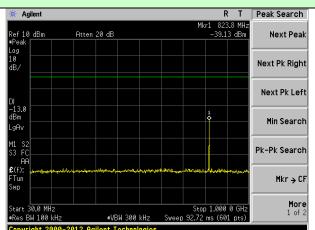
#### Test plot as follows:

Note: During the conducted spurious emission test, a band filter was used. The information of the filter is reported at section 6.0 (refer to item 24, 25).

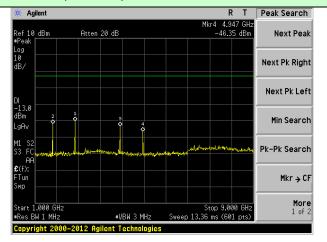
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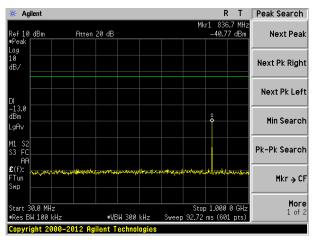
#### Test Mode: Traffic mode

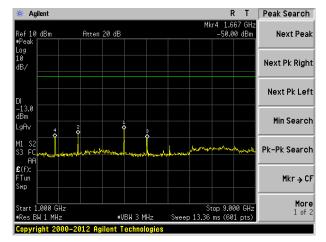


# GSM 850 (GSM link)

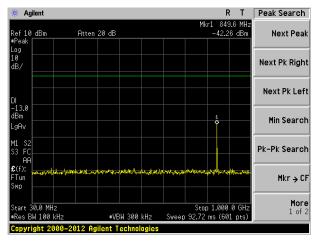


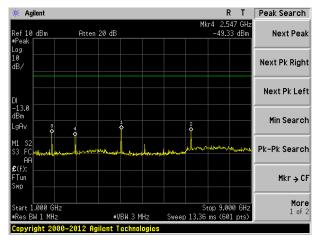
#### Lowest channel





# Middle channel

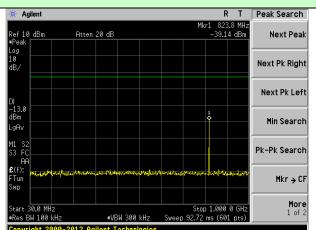




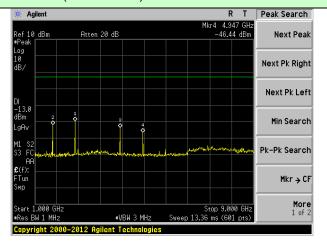
Highest channel



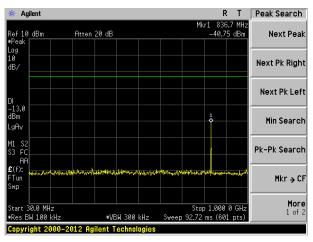
#### Test Mode: Traffic mode

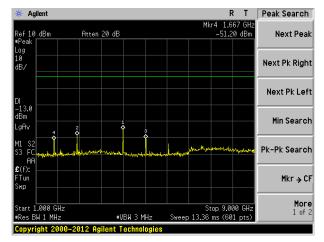


# GSM 850 (GPRS 1 link)

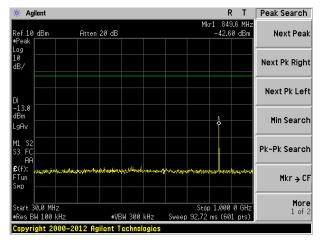


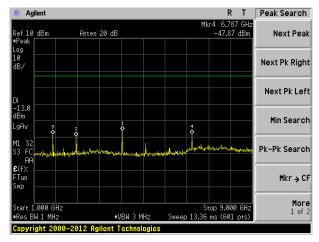
#### Lowest channel





# Middle channel



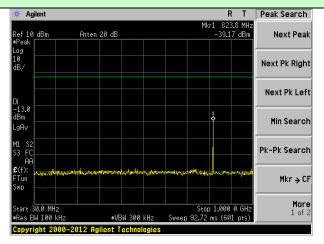


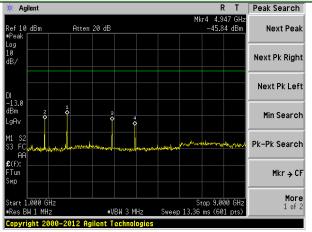
Highest channel



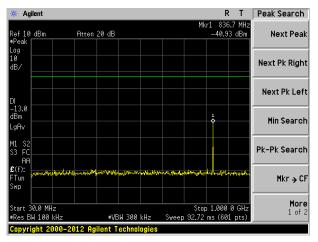
#### Test Mode: Traffic mode

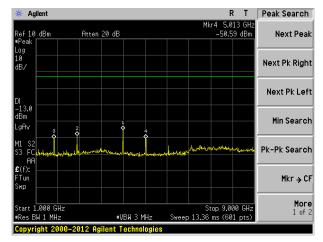
# GSM 850 (EGPRS 1 link)

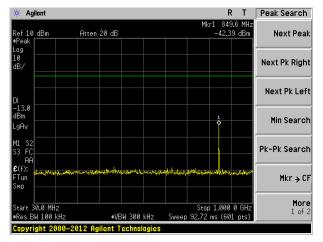


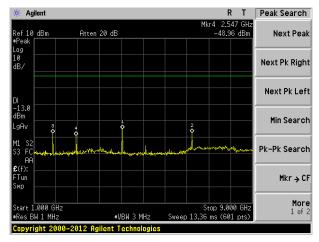


#### Lowest channel





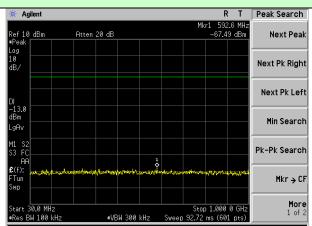




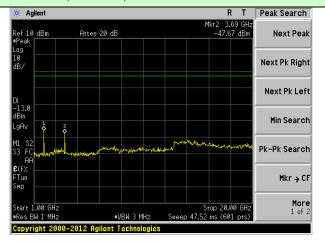
Highest channel



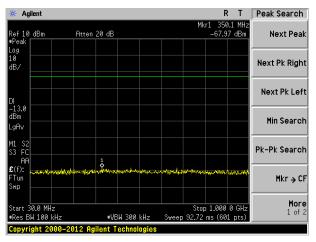
#### Test Mode: Traffic mode

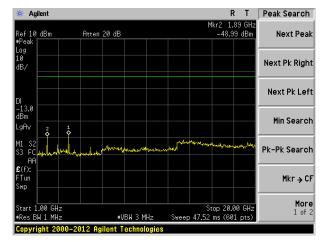


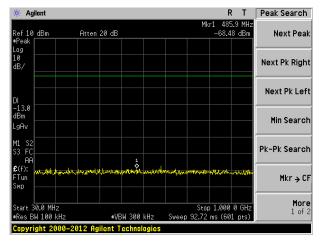
# PCS1900 (GSM link)

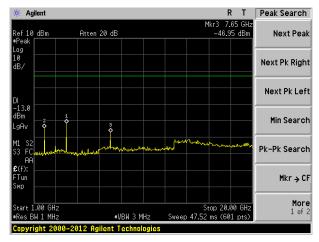


#### Lowest channel





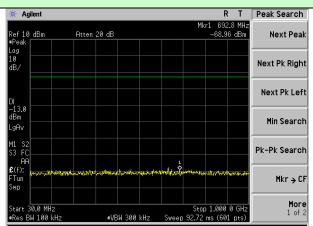




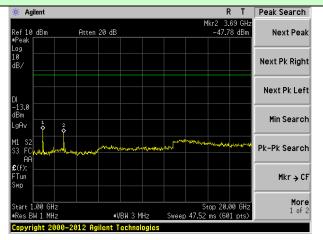
Highest channel



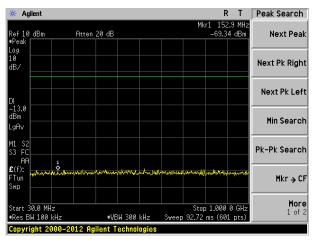
#### Test Mode: Traffic mode

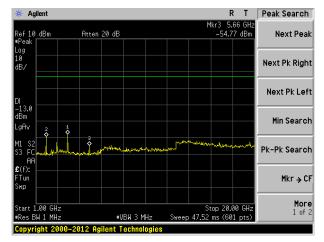


# PCS1900 (GPRS 1 link)

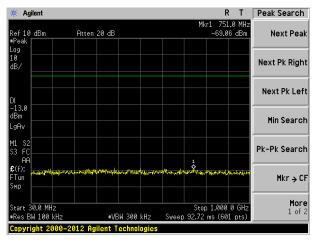


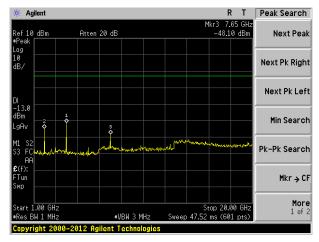
#### Lowest channel





# Middle channel



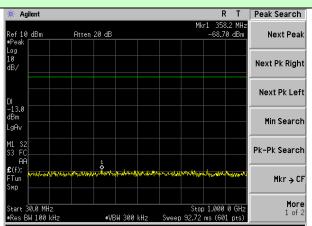


Highest channel

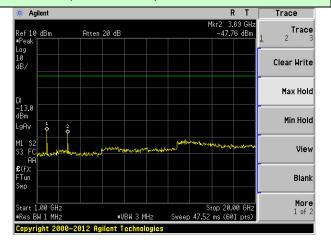
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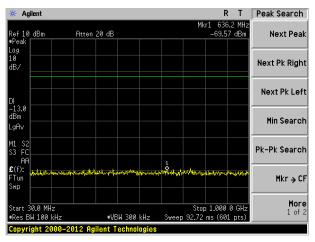
#### Test Mode: Traffic mode

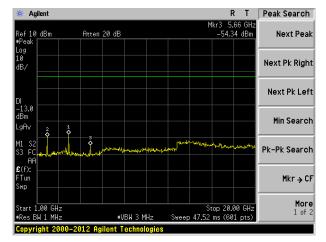


# PCS1900 (EGPRS 1 link)

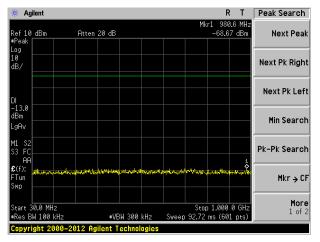


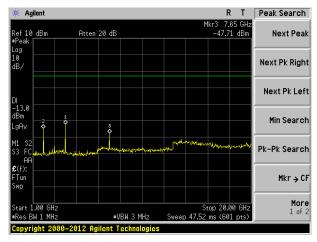
#### Lowest channel





#### Middle channel





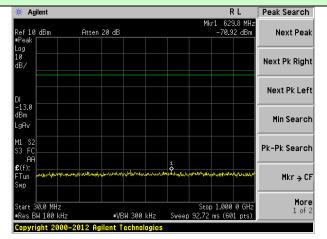
Highest channel

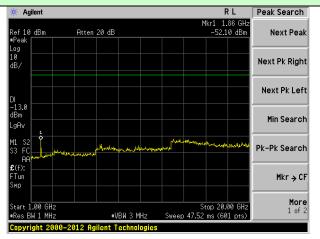
No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



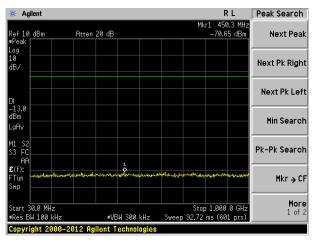
#### Test Mode: Traffic mode

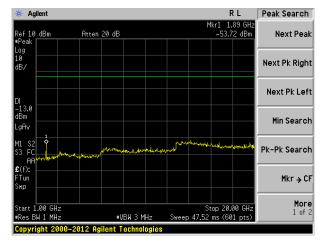
# WCDMA Band II (RMC 12.2Kbps link)



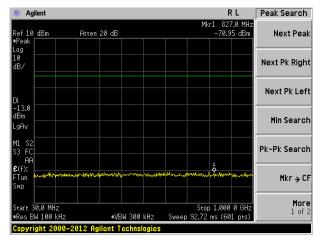


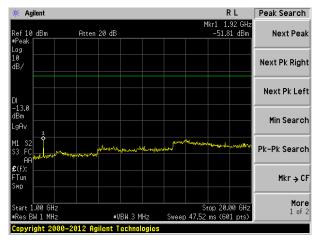
### Lowest channel





# Middle channel



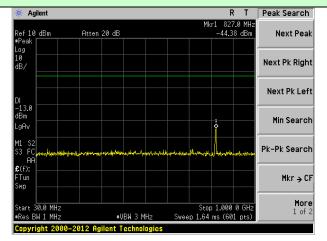


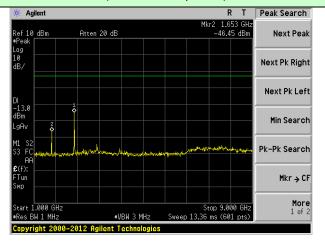
Highest channel



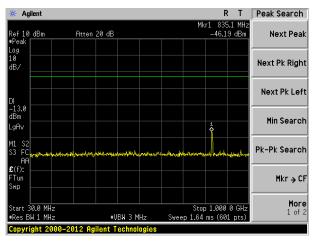
# Test Mode: Traffic mode

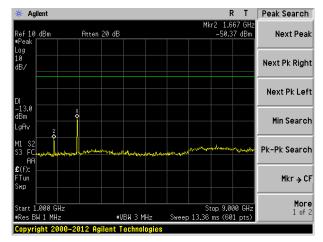
# WCDMA Band V (RMC 12.2Kbps link)



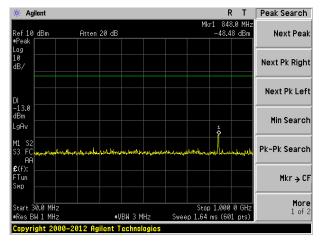


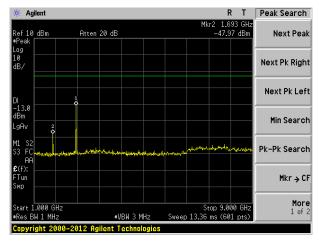
#### Lowest channel





# Middle channel

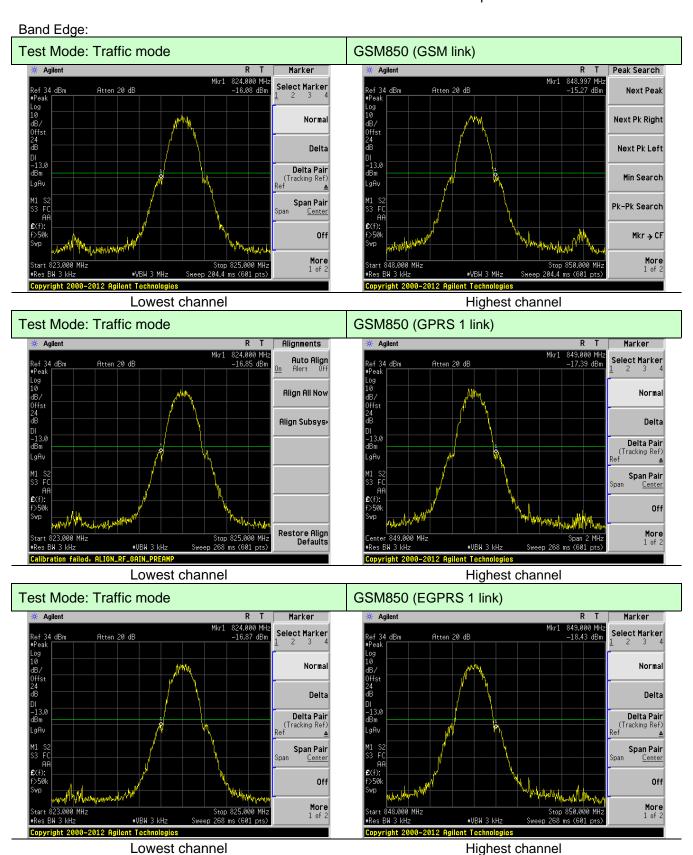




Highest channel

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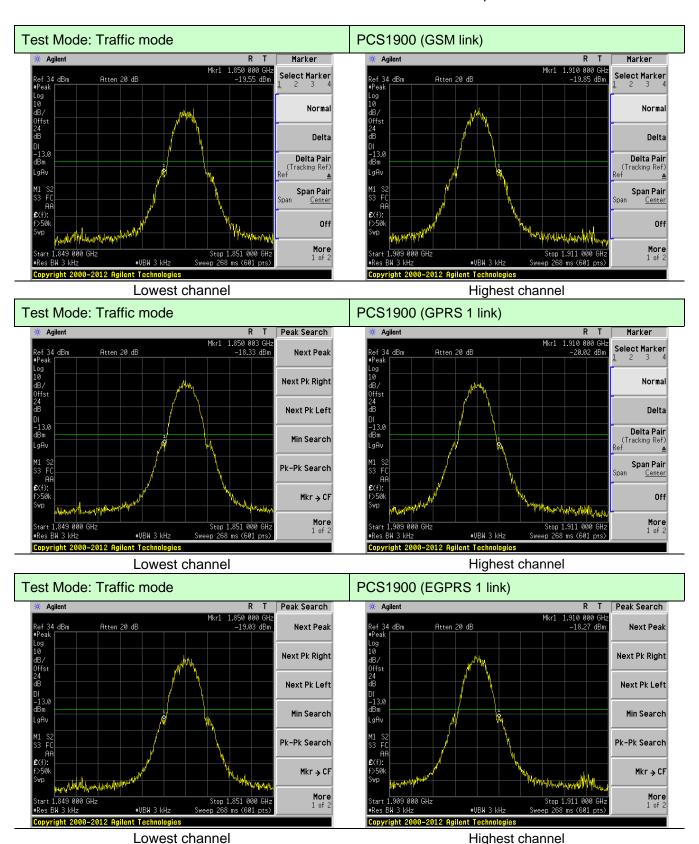


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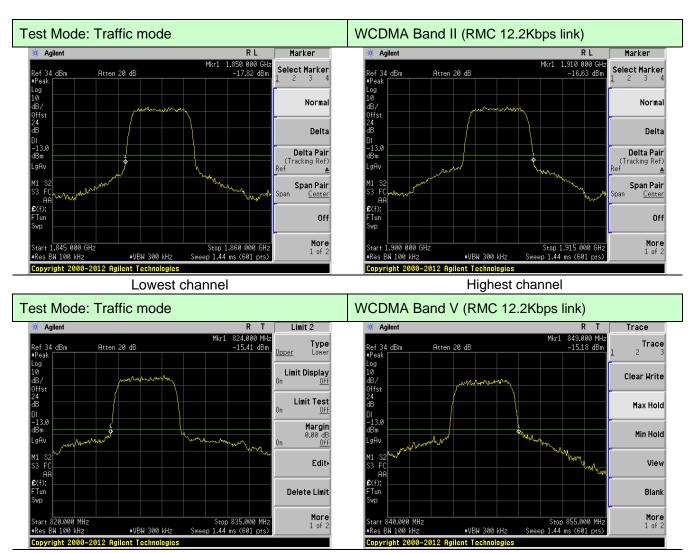


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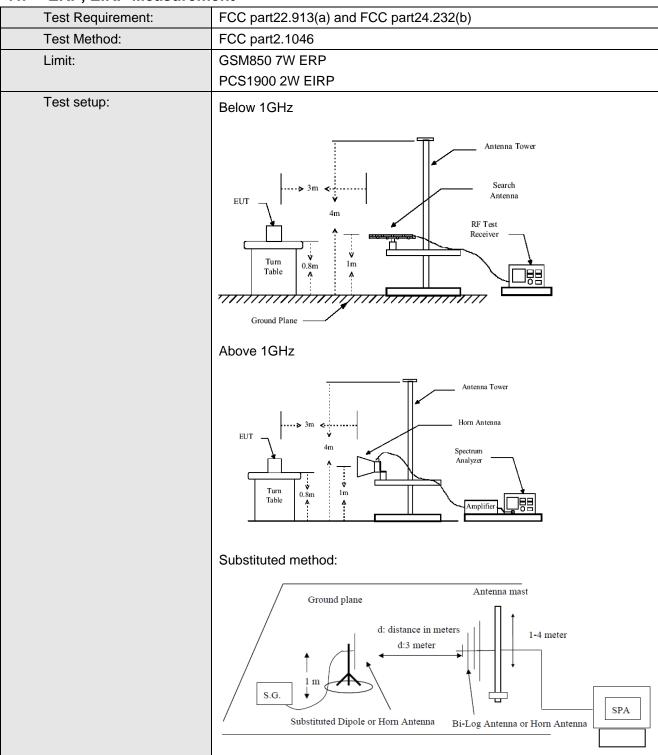




Lowest channel Highest channel



# 7.7 ERP, EIRP Measurement





Test Procedure:	The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.	
	<ol> <li>During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated.</li> </ol>	
	3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated asfollows:	
	ERP = S.G. output (dBm) + Antenna Gain (dBd) - Cable Loss (dB)	
	4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows:	
	EIRP = S.G. output (dBm) + Antenna Gain (dBi) - Cable Loss (dB)	
Test Instruments:	Refer to section 6.0 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Pass	

Measurement Data



EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
		1.1	V	31.68		
		Н	Н	28.53		
	1	E1	V	23.13	00.45	Davis
	Lowest	E1	Н	28.63	38.45	Pass
		Ε0	V	22.12		
		E2	Н	26.18		
		Н	V	31.44		Pass
		П	Н	28.21	38.45	
GSM850	N 40 -1 -11 -	Middle E1	V	22.88		
(GSM link)	ivildale		Н	28.41		
		F0	V	23.69		
		E2	Н	26.66		
		Н	V	31.87		
		П	Н	28.07		
	Highoot	E1	V	22.98	20.45	Poos
	Highest	Ei	Н	27.46	38.45	Pass
		F.C.	V	22.10		
		E2	Н	27.45		



EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result	
		Н	V	31.72			
		П	Н	28.59			
	Laurant	E1	V	23.22	20.45	Dana	
	Lowest		Н	28.74	38.45	Pass	
		E2	V	22.27			
		E2	Н	26.35			
		Н	V	31.56		Pass	
		П	Н	28.39	38.45		
GSM850	M: d dl o	E1	V	23.10			
(GPRS 1 link)	Middle	Middle L1	Н	28.66			
		E2	V	23.87			
		E2	Н	26.87			
		Н	V	31.99			
		11	Н	28.22			
	Highoot	E1	V	23.15	20 45	Poss	
	Highest	E1	Н	27.66	38.45	Pass	
		F.0	V	22.19			
			E2	Н	27.56		



EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
			V	27.70		
		Н	Н	24.69		
	la sat	Γ4	V	19.34	00.45	Davis
	Lowest	E1	Н	25.25	38.45	Pass
		F0	V	18.76		
		E2	Н	23.19		
		Н	V	28.06		
		П	Н	25.24	38.45	Pass
GSM850	M: al all a	Middle E1	V	20.04		
(EGPRS 1 link)	Midale		Н	25.99		
		E2	V	20.53		
		E2	Н	23.83		
		Н	V	28.27		
		П	Н	24.58		
	Highoot	E1	V	19.55	20 45	Poop
	Highest		Н	24.41	38.45	Pass
		F.0	V	17.84		
		E2	Н	23.60		



EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
		1.1	V	28.24		
		Н	Н	25.45		
		F4	V	20.65	00.04	ı
	Lowest	E1	Н	25.61	33.01	Pass
		F0	V	19.81		
		E2	Н	23.48		
		Н	V	28.20		Pass
		П	Н	25.38	33.01	
PCS1900	N 41 - 11 -	Middle E1	V	20.66		
(GSM link)	ivildale		Н	25.66		
		F0	V	21.33		
		E2	Н	24.03		
		Н	V	28.68		
		П	Н	25.31		
	Highoot	E1	V	20.78	22.04	Poss
	Highest	Eï	Н	24.83	33.01	Pass
		E2	V	19.87		
		E2	Н	24.70		



EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
		Н	V	27.86		
		П	Н	25.04		
	Laurant	E1	V	20.21	22.04	Dava
	Lowest		Н	25.16	33.01	Pass
		E2	V	19.33		
		E2	Н	22.97		
		Н	V	27.73		Pass
		11	Н	24.85	33.01	
PCS1900	Middle	e E1	V	20.09		
(GPRS 1 link)	ivildale		Н	25.07		
		F0	V	20.80		
		E2	Н	23.47		
		Н	V	28.21		
		11	Н	24.81		
	∐iah oot	E1	V	20.27	22.04	Door
	Highest	EI	Н	24.29	33.01	Pass
		F.6	V	19.45		
		E2	Н	24.25		



EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result	
		Н	V	24.53			
		П	Н	20.16			
	Laurant	E1	V	14.37	22.04	Dana	
	Lowest		Н	20.30	33.01	Pass	
		E2	V	13.32			
		E2	Н	17.70			
		Н	V	23.29		Pass	
		11	Н	19.85	33.01		
PCS1900	Middle	Middle E1	V	14.16			
(EGPRS 1 link)	ivildale		Н	20.12			
		E2	V	14.99			
		EZ	Н	18.21			
		Н	V	23.70			
		11	Н	19.63			
	∐ighoot	E1	V	14.18	22.04	Door	
	Highest		Н	19.02	33.01	Pass	
		F.0	V	13.18			
			E2	Н	18.95		



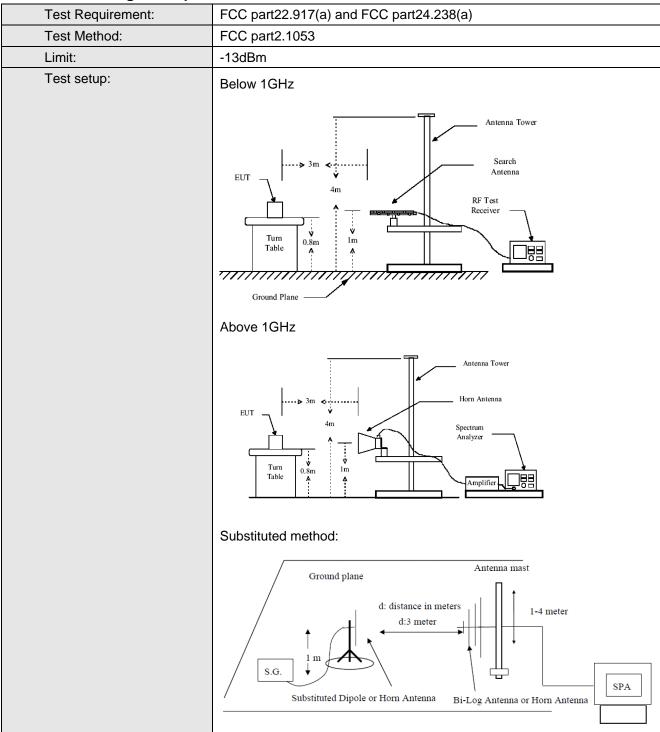
EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
		Ц	V	23.31		
		Н	Н	21.16		
	la sat	E1	V	17.56	00.04	D
	Lowest		Н	20.94	33.01	Pass
		Fo	V	16.64		
		E2	Н	19.10		
		Н	V	22.81		Pass
		П	Н	20.43	33.01	
WCDMA	M: al all a	Middle E1	V	16.85		
Band II	Midale		Н	20.24		
		F0	V	17.57		
		E2	Н	19.33		
		Н	V	21.73		
		П	Н	19.16		
	Highoot	E1	V	15.76	22.04	Door
	Highest	E1	Н	18.49	33.01	Pass
			V	15.69		
		E2	Н	18.97		



EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result		
		Н	V	20.71				
		П	Н	18.22				
	1	E1	V	14.29	00.45	Davis		
	Lowest	<u> </u>	Н	17.32	38.45	Pass		
		Ε0	V	12.69				
		E2	Н	14.81				
		1.1	V	19.02		Pass		
		Н	Н	15.89	38.45			
WCDMA	N 4: -1 -11 -	Middle E1	V	11.89				
Band V	Milagie		Н	14.95				
		Ε0	V	13.11				
		E2	Н	14.54				
		Н	V	18.03				
		П	Н	15.13				
	Himbook		V	11.39	20.45	Dage		
	Highest	E1	Н	13.79	38.45	Pass		
		F2	V	12.50				
				E2	Н	15.44		



## 7.8 Field strength of spurious radiation measurement





Test Procedure:	The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.		
	2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.		
	<ol> <li>The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels).</li> <li>Once spurious emission was identified, the power of the emission was determined using the substitution method.</li> </ol>		
	4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.		
	ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) -		
	Cable Loss (dB)		
Test Instruments:	Refer to section 6.0 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement Data



GSM850		Test channel:	Lowest	
Spurious	Emission	Limit (dDm)	Danish	
Polarization	Level (dBm)	Limit (abm)	Result	
Vertical	-35.71			
V	-38.46			
V	-40.74	-13.00	Pass	
V	-42.90			
V				
Horizontal	-40.97			
Н	-44.86			
Н	-46.44	-13.00	Pass	
Н	-49.19			
Н				
GSI	M850	Test channel:	Middle	
Spurious	Emission	Lineit (dDms)	Dooult	
Polarization	Level (dBm)	Limit (dBm)	Result	
Vertical	-37.10			
V	-39.39		Pass	
V	-41.29	-13.00		
V	-43.10			
V				
Horizontal	-41.49			
Н	-44.73		Pass	
Н	-46.05	-13.00		
Н	-48.34			
Н				
GSI	M850	Test channel:	Highest	
Spurious	Emission	Limit (dDm)	Dooult	
Polarization	Level (dBm)	Limit (dbm)	Result	
Vertical	-37.49			
V	-39.52			
V	-41.20	-13.00	Pass	
V	-42.81			
V				
Horizontal	-41.38			
Н	-44.26			
Н	-45.42	-13.00	Pass	
Н	-47.45			
Н				
	Spurious Polarization Vertical V V V V Horizontal H H H H Spurious Polarization Vertical V V V V V Horizontal H H H H H H H H H H H H H H H H H H H	Spurious Emission   Polarization   Level (dBm)	Spurious Emission	

### Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. Remark"---" means that the emission level is too low to be measured
- 3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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Test mode:	PCS1900		Test channel:	Lowest	
E (A411.)	Spurious	s Emission	I: :(/ID )	Result	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)		
3700.40	Vertical	-36.85			
5550.60	V	-39.24			
7400.80	V	-41.22	-13.00	Pass	
9251.00	V	-43.12			
11101.20	V				
3700.40	Horizontal	-41.44			
5550.60	Н	-44.83			
7400.80	Н	-46.18	-13.00	Pass	
9251.00	Н	-48.56			
11101.20	Н		1		
Test mode:	PCS	S1900	Test channel:	Middle	
[	Spurious	s Emission	Lineit (alDine)	Desult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3760.00	Vertical	-34.59			
5640.00	V	-37.06		Pass	
7520.00	V	-39.10	-13.00		
9400.00	V	-41.07			
11280.00	V				
3760.00	Horizontal	-39.33			
5640.00	Н	-42.82		Pass	
7520.00	Н	-44.24	-13.00		
9400.00	Н	-46.71			
11280.00	Н				
Test mode:	PCS	S1900	Test channel:	Highest	
Fraguency (MUz)	Spurious	s Emission	Limit (dDm)	Dooult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3819.60	Vertical	-35.95			
5729.40	V	-38.34			
7639.20	V	-40.31	-13.00	Pass	
9549.00	V	-42.21			
11458.80	V				
3819.60	Horizontal	-40.53			
5729.40	Н	-43.92			
7639.20	Н	-45.27	-13.00	Pass	
9549.00	Н	-47.64			
11458.80	Н				

#### Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. Remark"---" means that the emission level is too low to be measured
- 3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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Test mode:	WCDM	WCDMA Band II		Lowest	
<b>-</b> (1411.)	Spurious	Emission	1: '( / 15 )	<b>5</b> . "	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3704.46	Vertical	-41.47			
5556.86	V	-44.43			
7409.26	V	-46.85	-13.00	Pass	
9261.66	V	-49.26			
11114.40	V				
3704.46	Horizontal	-47.18			
5556.86	Н	-51.37			
7409.26	Н	-53.01	-13.00	Pass	
9261.66	Н	-55.91			
11114.40	Н				
Test mode:	WCDM	A Band II	Test channel:	Middle	
Fragues and (MILE)	Spurious	Emission	Limait (alDuna)	Decult	
Frequency (MHz)	Polarization	Level (dBm)	Limit (dBm)	Result	
3759.83	Vertical	-41.83			
5639.83	V	-44.65		Pass	
7519.83	V	-46.95	-13.00		
9399.83	V	-49.25			
11280.00	V				
3759.83	Horizontal	-47.26			
5639.83	Н	-51.26		Pass	
7519.83	Н	-52.82	-13.00		
9399.83	Н	-55.59			
11280.00	Н				
Test mode:	WCDM	A Band II	Test channel:	Highest	
Frequency (MHz)	Spurious	Emission	Limit (dDm)	Result	
Frequency (MHZ)	Polarization	Level (dBm)	Limit (dBm)	Result	
3815.03	Vertical	-39.92			
5722.63	V	-42.60			
7630.23	V	-44.79	-13.00	Pass	
9537.83	V	-46.95			
11445.60	V				
3815.03	Horizontal	-45.07			
5722.63	Н	-48.86			
7630.23	Н	-50.35	-13.00	Pass	
9537.83	Н	-52.99			
11445.60	Н				

#### Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. Remark"---" means that the emission level is too low to be measured
- 3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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WCDM	A Band V	Test channel:	Lowest	
Spurious	Emission	Limit (dDm)	Danish	
Polarization	Level (dBm)	Limit (dBm)	Result	
Vertical	-37.51			
V	-41.25			
V	-43.98	-13.00	Pass	
V	-41.50			
V				
Horizontal	-40.30			
Н	-42.99			
Н	-48.40	-13.00	Pass	
Н	-52.01			
Н				
WCDM	A Band V	Test channel:	Middle	
Spurious	Emission	Limit (dDm)	Dogult	
Polarization	Level (dBm)	Limit (dBm)	Result	
Vertical	-39.27			
V	-40.58			
V	-44.21	-13.00	Pass	
V	-46.68			
V				
Horizontal	-41.73			
Н	-43.65		Pass	
Н	-48.35	-13.00		
Н	-50.74			
Н				
WCDM	A Band V	Test channel:	Highest	
Spurious	Emission	Limit (dDay)	Daniell	
Polarization	Level (dBm)	Limit (dBm)	Result	
Vertical	-38.17			
V	-40.59			
V	-43.21	-13.00	Pass	
V	-46.10			
V				
Horizontal	-41.50			
Н	-43.90			
Н	-45.27	-13.00	Pass	
Н	-51.44			
Н				
	Spurious Polarization Vertical V V V V Horizontal H H H H Spurious Polarization Vertical V V V V V V Horizontal H H H H H H H H H H H H H H H H H H H	Vertical         -37.51           V         -43.98           V         -41.50           V            Horizontal         -40.30           H         -42.99           H         -48.40           H         -52.01           H            WCDMA Band V           Spurious Emission           Polarization         Level (dBm)           Vertical         -39.27           V         -40.58           V         -44.21           V         -44.21           V         -46.68           V            Horizontal         -41.73           H         -43.65           H         -43.65           H         -43.65           H            WCDMA Band V         Spurious Emission           Polarization         Level (dBm)           Vertical         -38.17           V         -40.59           V         -43.21           V         -46.10           V         -46.10           V         -45.27           H	Spurious Emission   Level (dBm)	

### Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.
- 2. Remark"---" means that the emission level is too low to be measured
- 3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

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# 7.9 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	2.5ppm
Test setup:	Spectrum analyzer  EUT  Att.  Variable Power Supply
	Note: Measurement setup for testing on Antenna connector
Test procedure:	The equipment under test was connected to an external DC power supply and input rated voltage.
	2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators.
	3. The EUT was placed inside the temperature chamber.
	4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency.
	5. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.
	6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data



Reference	Frequency: GSM850	(GSM link) Mid	dle channel=19	0 channel=836.6l	MHz
Power supplied	Temperature (°C)	Frequer	ncy error	Limit (ppm)	Result
(Vdc)	Temperature ( 0)	Hz	ppm	Еппи (ррпп)	rtoduit
	-30	39	0.0466		
	-20	43	0.0518		
	-10	38	0.0449		
	0	32	0.0380		
3.70	10	36	0.0432	2.5	Pass
	20	32	0.0380		
	30	49	0.0588		
	40	45	0.0536		
	50	43	0.0518		
Reference F	requency: GSM850 (	(GPRS 1 link) Mi	ddle channel=1	90 channel=836.	6MHz
Power supplied	Temperature (°C)	Frequer	ncy error	Limit (ppm)	Result
(Vdc)	remperature ( C)	Hz	ppm	Limit (ppin)	
	-30	51	0.0605		
	-20	58	0.0696	2.5	
	-10	49	0.0586		Pass
	0	43	0.0513		
3.70	10	48	0.0571		
3.70	20	42	0.0501	2.5	
	30	69	0.0830		
	40	61	0.0725		
	50	58	0.0688		
	50	51	0.0605		
Reference F	requency: GSM850 (I	EGPRS 1 link) M	iddle channel=	190 channel=836	.6MHz
Power supplied	Temperature (°C)	Frequer	ncy error	Limit (ppm)	Result
(Vdc)	remperature ( C)	Hz	ppm	Limit (ppin)	Result
	-30	39	0.0464		
	-20	42	0.0507		
2.70	-10	37	0.0443		
	0	34	0.0401		
	10	35	0.0422	2.5	Door
2.70		32	0.0379	2.5 F	Pass
3.70	20	32			
3.70	20 30	51	0.0613		
3.70			0.0613 0.0528		
3.70	30	51	1		



Reference I	Frequency: PCS190	0 (GSM link) Mid	dle channel=66	1 channel=1880	MHz
Dower aupplied (\/de)	Tomporeture (%C)	Frequer	ncy error		Result
Power supplied (Vdc)	Temperature (°C)	Hz	ppm		
	-30	52	0.0275		
	-20	60	0.0321		
	-10	52	0.0275		
	0	44	0.0236		
3.70	10	52	0.0275	2.5	Pass
	20	46	0.0244		
	30	70	0.0375		
	40	62	0.0329		
	50	59	0.0313		
Reference Fr	equency: PCS1900	(GPRS 1 link) M	iddle channel=6	61 channel=188	0MHz
Dower cumplied (\/de)	Tomporeture (°C)	Frequer	ncy error		Dogult
Power supplied (Vdc)	Temperature (°C)	Hz	ppm		Result
	-30	106	0.0564	2.5	Pass
	-20	124	0.0658		
	-10	102	0.0543		
	0	85	0.0453		
3.70	10	103	0.0549		
	20	88	0.0465		
	30	138	0.0734		
	40	117	0.0620		
	50	122	0.0649		
Reference Fre	equency: PCS1900 (	(EGPRS 1 link) M	liddle channel=	661 channel=188	30MHz
Dower supplied (\/de)	Tomporeture (°C)	Frequer	ncy error		Result
Power supplied (Vdc)	remperature ( C)	Hz	ppm		Result
	-30	57	0.0303		
	-20	65	0.0347		
	-10	54	0.0286		
	0	45	0.0242		
3.70	10	55	0.0295	2.5	Pass
	20	45	0.0242		
	30	74	0.0391	]	
	40	62	0.0330		
	50	65	0.0347		

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Power supplied	ed Frequency error		ncy error	L'arit (array)	D
(Vdc)	Temperature (°C)	Hz	ppm	Limit (ppm)	Result
	-30	133	0.0706		
	-20	118	0.0626		
	-10	101	0.0538		
	0	94	0.0503		
3.70	10	86	0.0458	2.5	Pass
	20	75	0.0397		
	30	94	0.0503		
	40	106	0.0564		
	50	101	0.0538		
Refere	ence Frequency: WCDI	MA Band V Middle	channel=4183 cha	annel=836.6MHz	
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Pocult
Power supplied (vdc)	remperature ( C)	Hz	ppm	Limit (ppm)	Result
	-30	49	0.0583		
	-20	68	0.0812		
	-10	77	0.0916		Pass
3.70	0	37	0.0438		
	10	54	0.0646	2.5	
	20	59	0.0708		
	30	87	0.1041		
	40	82	0.0979		
	50	98	0.1166		



# 7.10 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	Spectrum analyzer  EUT  Variable Power Supply  Note: Measurement setup for testing on Antenna connector
Test procedure:	<ol> <li>Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage.</li> <li>Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.</li> <li>Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.</li> </ol>
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass



#### Measurement Data

Measurement Data						
Reference Frequency: GSM850 (GSM link) Middle channel=190 channel=836.6MHz						
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result	
remperature ( 0)	(Vdc)	Hz	ppm	Ешти (ррпп)	Nosuit	
	4.25	26	0.0308			
25	3.70	29	0.0343	2.5	Pass	
	3.40	32	0.0378			
Reference Frequency: GSM850 (GPRS 1 link) Middle channel=190 channel=836.6MHz						
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result	
remperature ( 0)	(Vdc)	Hz	ppm		resuit	
	4.25	50	0.0601			
25	3.70	57	0.0682	2.5	Pass	
	3.40	64	0.0760		1	
Reference F	requency: GSM850	(EGPRS 1 link) M	liddle channel=19	0 channel=836.6	6MHz	
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result	
remperature ( 0)	(Vdc)	Hz	ppm	Limit (ppm)	resur	
	4.25	40	0.0478			
25	3.70	30	0.0363	2.5	Pass	
	3.40	34	0.0401			



Reference Frequency: PCS1900 (GSM link) Middle channel=661 channel=1880MHz						
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result	
remperature ( C)	(Vdc)	Hz	ppm	Еши (ррш)	Resuit	
	4.25	11	0.0061			
25	3.70	17	0.0093	2.5	Pass	
	3.40	17	0.0093			
Reference Frequency: PCS1900 (GPRS 1 link) Middle channel=661 channel=1880MHz						
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result	
remperature ( C)	(Vdc)	Hz	ppm	Limit (ppm)	Nesuit	
	4.25	162	0.0861			
25	3.70	185	0.0985	2.5	Pass	
	3.40	186	0.0990			
Reference F	requency: PCS1900	(EGPRS 1 link) N	/liddle channel=66	61 channel=1880	)MHz	
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result	
remperature ( C)		Hz	ppm	Limit (ppm)	Result	
	4.25	66	0.0348			
25	3.70	51	0.0271	2.5	Pass	
	3.40	54	0.0287			

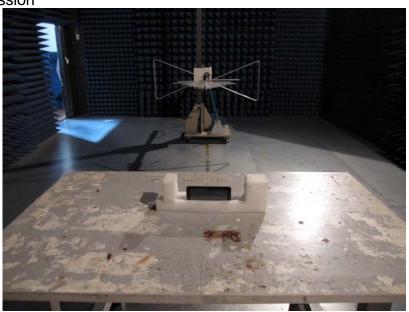


Reference Frequency: WCDMA Band II Middle channel=940 channel=1880.0MHz						
Temperature (°C)	Power supplied	Frequency error		Limit (ppm)	Result	
remperature ( C)	(Vdc)	Hz	ppm	Еши (ррш)	Nesult	
	4.25	52	0.0278			
25	3.70	42	0.0224	2.5	Pass	
	3.40	48	0.0255			
Refe	erence Frequency: WCD	MA Band V Middle	channel=4183 char	nnel=836.6MHz		
Temperature (°C)	Power supplied (Vdc)	Freque	ncy error	Limit (ppm)	Result	
remperature ( O)	1 ower supplied (vdc)	Hz	ppm	Еши (ррш)	Nesuit	
	4.25	28	0.0330			
25	3.70	36	0.0436	2.5	Pass	
	3.40	19	0.0225			



# 8 Test Setup Photo

**Radiated Emission** 





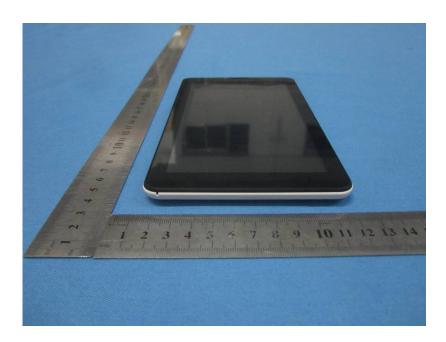


# 9 EUT Constructional Details





















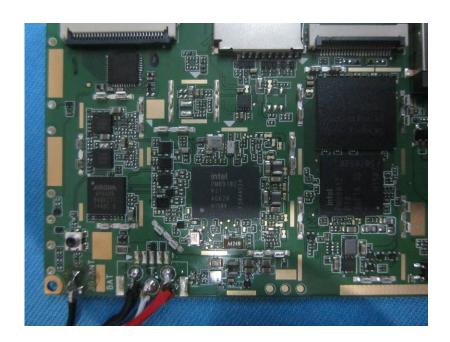


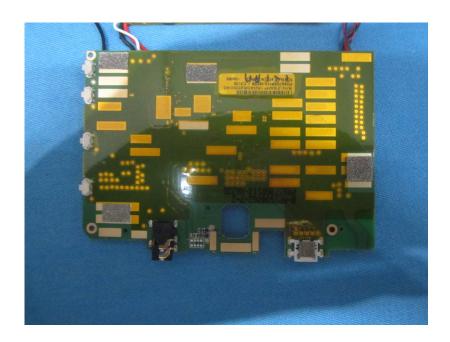




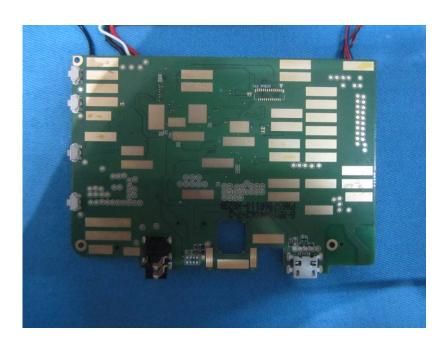






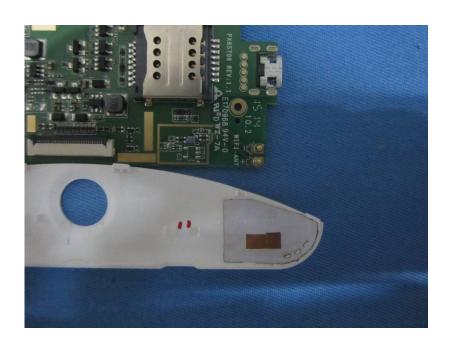


















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