



FCC TEST REPORT

Report No: STS1506078F03

Issued for

KENXINDA TECHNOLOGY CO., LIMITED
UNIT B 13/F PRAT COMMERCIAL BUILDING 17-19
PRAT AVENUE TSIMSHATSUI KL HONGKONG

Product Name:	3G Mobile phone
Brand Name:	KENXINDA
Model No.:	E7 Dual Sim
Series Model:	N/A
FCC ID:	2AE56E7
Test Standard:	FCC Part 15.247

Any reproduction of this document must be done in full. No single part of this document may permission from STS, All Test Data Presented in this report is only applicable to presented Test



TEST RESULT CERTIFICATION

Applicant's name.....: KENXINDA TECHNOLOGY CO., LIMITED

Address: UNIT B 13/F PRAT COMMERCIAL BUILDING 17-19 PRAT

AVENUE TSIMSHATSUI KL HONGKONG

Manufacture's Name: SHENZHEN KENXINDA TECHNOLOGY CO., LTD. (BAO'AN

BRANCH)

Address 1-6 Floor, No.105 Work Shop & 1-5 Floor, No.104 Work Shop,

Xinweihuaning Road, Dalang Community, Dalang Street, Baoán

District, Shenzhen, P.R.C

Product description

Product name: 3G Mobile phone

Model and/or type reference : E7 Dual Sim

Serial Model: N/A

Standards..... FCC Part15.247

Test procedure: ANSI C63.10-2009

This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of STS, this document may be altered or revised by STS, personal only, and shall be noted in the revision of the document.

Date of Test....:

Date of Issue: 02 July. 2015

Test Result: Pass

Testing Engineer :

(Jin Ming)

Report writing

(Sunny zheng)

Authorized

Signatory

(Bovey Yang)



Table of Contents	Page
1. SUMMARY OF TEST RESULTS	5
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST MODES	8
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TEST	9
2.4 DESCRIPTION OF SUPPORT UNITS	9
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	10
3. EMC EMISSION TEST	11
3.1 CONDUCTED EMISSION MEASUREMENT	11
3.1.1 POWER LINE CONDUCTED EMISSION LIMITS	11
3.1.2 TEST RESULTS	12
3.2 RADIATED EMISSION MEASUREMENT 3.2.1 RADIATED EMISSION LIMITS	14 14
3.2.2 TEST PROCEDURE	15
3.2.3 TEST SETUP	16
3.2.4 EUT OPERATING CONDITIONS	17
3.2.5 TEST RESULT 3.2.6 TEST RESULTS (BAND EDGE)	18 33
4. CONDUCTED SPURIOUS EMISSIONS	41
4.1 APPLIED PROCEDURES / LIMIT	41
4.2 TEST PROCEDURE	41
4.3 DEVIATION FROM STANDARD	41
4.4 TEST SETUP	41
4.5 EUT OPERATION CONDITIONS	41
4.6 TEST RESULTS	42
5. POWER SPECTRAL DENSITY TEST	54
5.1 APPLIED PROCEDURES / LIMIT	54
5.2 TEST PROCEDURE	54
5.3 DEVIATION FROM STANDARD	54
5.4 TEST SETUP	54
5.5 EUT OPERATION CONDITIONS	54
5.6 TEST RESULTS	55



Table of Contents	Page
6. BANDWIDTH TEST	63
6.1 APPLIED PROCEDURES / LIMIT	63
6.2 TEST PROCEDURE	63
6.3 DEVIATION FROM STANDARD	63
6.4 TEST SETUP	63
6.5 EUT OPERATION CONDITIONS	63
6.6 TEST RESULTS	64
7. PEAK OUTPUT POWER TEST	72
7.1 APPLIED PROCEDURES / LIMIT	72
7.2 TEST PROCEDURE	72
7.3 DEVIATION FROM STANDARD	72
7.4 TEST SETUP	72
7.4 EUT OPERATION CONDITIONS	72
7.5 TEST RESULTS	73
8. ANTENNA REQUIREMENT	74
8.1 STANDARD REQUIREMENT	74
8.2 EUT ANTENNA	74
APPENDIX - PHOTOS OF TEST SETUP	75



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247 (a)(2)	6dB Bandwidth	PASS			
15.247 (b) (reference KDB 558074 d05 v02. /9.1.2)	Peak Output Power	PASS			
15.247 (c)	Radiated Spurious Emission	PASS			
15.247 (d)	Conducted Spurious Emission	PASS			
15.247 (e)	Power Spectral Density	PASS			
15.205	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F, Building 2, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District,

Shenzhen, China.

FCC Registration No.: 842334; IC Registration No.: 12108A-1

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	3G Mobile pho	ne		
Trade Name	KENXINDA	KENXINDA		
Model Name	E7 Dual Sim	E7 Dual Sim		
Serial Model	N/A			
Model Difference	N/A			
Product Description	Operation Frequency: Modulation Type: Bit Rate of Transmitter Number Of Channel Antenna	802.11b/g/n 20: 2412~2462 MHz 802.11n 40: 2422~2452MHz CCK/OFDM/DBPSK/DAPSK 802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20/40MHz):300/150/144.44/130/ 117/115.56/104/86.67/78/52/6.5Mbps 802.11b/g/n20: 11CH 802.11n 40: 7CH Please see Note 3. 0.7 dbi		
Channel List	Please refer to	the Note 2.		
Ratings	DC 3.7V from			
Adapter	Power supply a Input:100-240\ Output: 5V,100			
	Rated Voltage:			
Battery	Charge Limit: 4.2V			
	capacity: 2200mAh			
Hardware version number	W810_MB_V2.0			
Software versioning number	w810_0202-user4.43KOT49H.14B_eng.sp6.20150629.1 04151			
Connecting I/O Port(s)	Please refer to	the User's Manual		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.	Channel List for 802.11b/g/n(20MHz)							
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
İ	01	2412	04	2427	07	2442	10	2457
	02	2417	05	2432	08	2447	11	2462
	03	2422	06	2437	09	2452		



	Channel List for 802.11n(40MHz)						
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442				
05	2432	80	2447				

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
Α	N/A	N/A	Integral antenna	NA	0.7	N/A





2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20)CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9
Mode 5	Link Mode

For Conducted Emission		
Final Test Mode	Description	
Mode 5	Link Mode	

For Radiated Emission				
Final Test Mode	Description			
Mode 1	802.11b CH1/ CH6/ CH11			
Mode 2	802.11g CH1/ CH6/ CH11			
Mode 3	802.11n CH1/ CH6/ CH11			
Mode 4	802.11n(40) CH3/ CH6/ CH9			
Mode 5	Link Mode			

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (3) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TEST



2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	//fr/Brand Model/Type No. Series No.		Note
E-1	3G Mobile phone	KENXINDA	E7 Dual Sim	N/A	EUT
E-2	Adapter	KENXINDA	E7 Dual Sim	N/A	Accessories
	\				
	,				

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.5m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2014.10.25	2015.10.24
Test Receiver	R&S	ESCI	101427	2014.10.25	2015.10.24
Bilog Antenna	TESEQ	CBL6111D	34678	2014.10.27	2015.10.26
Horn Antenna	R&S	9120D	152265	2014.10.27	2015.10.26
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05
Amplifier	Agilent	8449B	60538	2014.10.25	2015.10.24
Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07
Power Meter	Anritsu	ML2495A	1204003	2014.10.25	2015.10.24
Power Sensor	Anritsu	MA2411B	100309	2014.10.25	2015.10.24
Low frequency cable	MURATA	R-03	130627	2014.10.25	2015.10.24
High frequency cable	HARBOUR	R-02	FL0000175	2014.10.25	2015.10.24

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	102086	2014.10.25	2015.10.24
LISN	R&S	ENV216	101242	2014.10.25	2015.10.24
LISN	EMCO	3810/2NM	000-23625	2014.10.25	2015.10.24
Conduction Cable	HUBER+SU HNER	C01	N/A	2014.10.25	2015.10.24



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&207(a) limit in the table below has to be followed.

	Class B	Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Standard
0.15 -0.5	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	60.00	50.00	CISPR

0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz





3.1.2 TEST RESULTS

Job No.: STS1506078 Ant.Polar.: L1

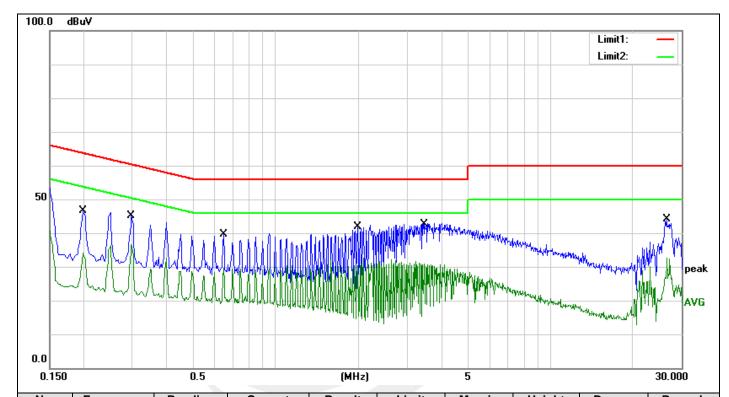
Standard: FCC Part15 CE-Class B_QP Date:2015/6/30 Time:10:09:42

Test item: Conducted Emission Distance:

Company: 3G Mobile phone Temp.(C)/Hum.(%RH): 26(C)/60%RH Model: E7 Dual Sim Power: AC 110V/60Hz

Mode: WIFI Test By:

Description:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	(cm)	(deg.)	
1	0.1988	33.08	10.00	43.08	63.66	-20.58			QP
2	0.1988	19.39	10.00	29.39	53.66	-24.27			AVG
3	0.2972	32.08	9.90	41.98	60.32	-18.34			QP
4	0.2972	25.69	9.90	35.59	50.32	-14.73			AVG
5	0.6476	26.14	9.97	36.11	56.00	-19.89			QP
6	0.6476	19.70	9.97	29.67	46.00	-16.33			AVG
7	1.9927	20.90	10.00	30.90	56.00	-25.10			QP
8	1.9927	6.54	10.00	16.54	46.00	-29.46			AVG
9	3.4722	27.19	10.17	37.36	56.00	-18.64			QP
10	3.4722	12.09	10.17	22.26	46.00	-23.74			AVG
11	26.4663	26.28	10.55	36.83	60.00	-23.17			QP
12	26.4663	15.23	10.55	25.78	50.00	-24.22			AVG





Job No.: STS1506078 Ant.Polar.: N

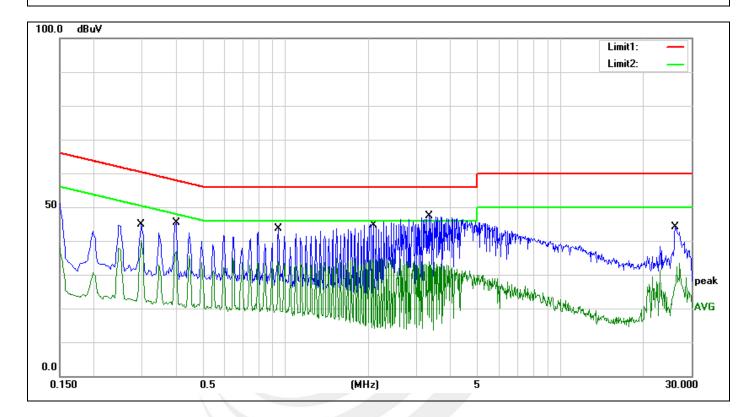
Standard: FCC Part15 CE-Class B_QP Date:2015/6/30 Time:10:15:20

Test item: Conducted Emission Distance:

Company: 3G Mobile phone Temp.(C)/Hum.(%RH): 26(C)/60%RH Model: E7 Dual Sim Power: AC 110V/60Hz

Mode: WIFI Test By:

Description:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	(cm)	(deg.)	
1	0.2975	33.57	9.90	43.47	60.31	-16.84			QP
2	0.2975	29.80	9.90	39.70	50.31	-10.61			AVG
3	0.3957	31.53	10.00	41.53	57.94	-16.41			QP
4	0.3957	21.01	10.00	31.01	47.94	-16.93			AVG
5	0.9410	31.39	10.00	41.39	56.00	-14.61			QP
6	0.9410	23.92	10.00	33.92	46.00	-12.08			AVG
7	2.0818	32.99	10.00	42.99	56.00	-13.01			QP
8	2.0818	17.99	10.00	27.99	46.00	-18.01			AVG
9	3.3195	30.36	10.10	40.46	56.00	-15.54			QP
10	3.3195	14.91	10.10	25.01	46.00	-20.99			AVG
11	26.1900	24.28	10.73	35.01	60.00	-24.99			QP
12	26.1900	14.86	10.73	25.59	50.00	-24.41			AVG



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

6 dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&205(a), then the Part 15.247&209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)		
FREQUENCT (MIDZ)	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower



Spectrum Parameter	Setting		
Attenuation	Auto		
Detector	Peak		
Start Frequency	1000 MHz(Peak/AV)		
Stop Frequency	10th carrier harmonic(Peak/AV)		
RB / VB (emission in restricted	1 MH= /1 MH= A\/ 1 MH= /10H=		
band)	1 MHz / 1 MHz, AV=1 MHz / 10Hz		

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

3.2.2 TEST PROCEDURE

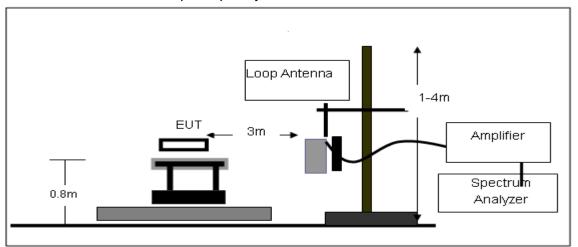
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

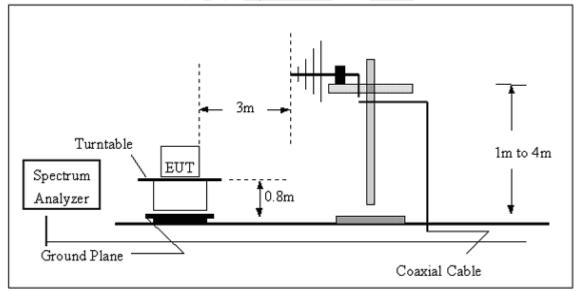


3.2.3 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz

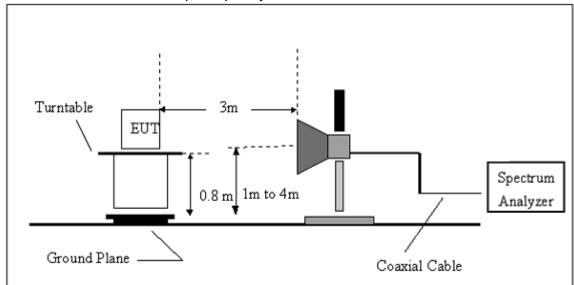


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.





3.2.5 TEST RESULT 9KHz-30MHz

EUT:	3G Mobile phone	Model Name. :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V from battery
Test Mode:	Link mode	Polarization:	

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.





Job No.: STS1506078

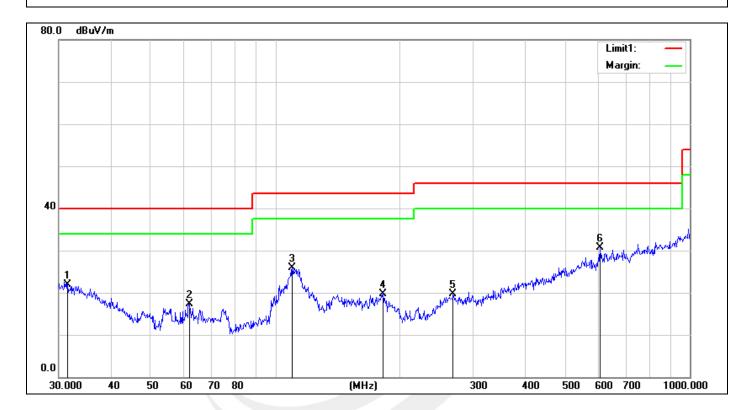
Ant.Polar.: Horizontal Standard: FCC_PART15_B_03m_QP Date:2015/6/18 Time:16:12:43

Test item: **Radiated Emission** Distance: 3m

Company: Temp.(C)/Hum.(%RH): 26(C)/60%RH 3G Mobile phone Model: E7 Dual Sim Power: AC 110V/60Hz

WIFI Mode: Test By:

Description:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	31.5092	4.08	17.91	21.99	40.00	-18.01			QP
2	61.9951	11.91	5.43	17.34	40.00	-22.66			QP
3	109.7960	14.55	11.28	25.83	43.50	-17.67			QP
4	181.9200	9.72	10.08	19.80	43.50	-23.70			QP
5	268.4852	5.23	14.56	19.79	46.00	-26.21			QP
6	607.7866	8.27	22.40	30.67	46.00	-15.33			QP

Ant.Polar.:

Distance:

Date:2015/6/18

Temp.(C)/Hum.(%RH):



Vertical

3m

Time:10:27:11

26(C)/60%RH

AC 110V/60Hz



Job No.: STS1506078

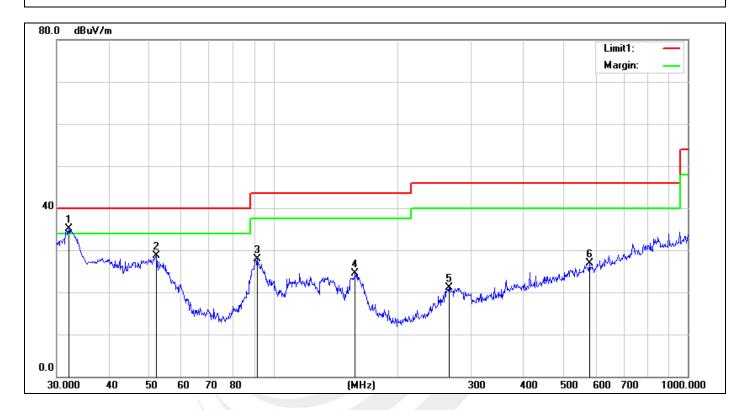
Standard: FCC_PART15_B_03m_QP

Test item: Radiated Emission

Company: 3G Mobile phone Model: E7 Dual Sim

Model: E7 Dual Sim Power: Mode: WIFI Test By:

Description:



No.	Frequency	Reading	Correct	Result	Limit	Margin	Height	Degree	Remark
	(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	(cm)	(deg.)	
1	32.0667	17.40	17.63	35.03	40.00	-4.97			QP
2	52.2080	21.54	7.16	28.70	40.00	-11.30			QP
3	91.4950	18.12	9.69	27.81	43.50	-15.69			QP
4	157.5586	12.73	11.72	24.45	43.50	-19.05			QP
5	265.6757	6.28	14.90	21.18	46.00	-24.82			QP
6	578.6698	4.63	22.36	26.99	46.00	-19.01			QP





Above 1000MHz

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1 (802.11b Mode)/2412	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.123	46.42	10.44	56.86	74	-17.14	peak
4824.123	31.77	10.44	42.21	54	-11.79	AVG
7236.078	43.36	12.39	55.75	74	-18.25	peak
7236.078	33.51	12.39	45.9	54	-8.1	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim	
Temperature:	20 ℃	Relative Humidity:	48%	
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery	
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Vertical	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.084	49.29	10.39	59.68	74	-14.32	peak
4824.073	33.37	10.39	43.76	54	-10.24	AVG
7236.080	48.68	12.68	61.36	74	-12.64	peak
7236.148	30.41	12.68	43.09	54	-10.91	AVG

Remark:





EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.043	49.63	10.39	60.02	74	-13.98	peak
4874.042	33.84	10.39	44.23	54	-9.77	AVG
7311.134	48.29	12.68	60.97	74	-13.03	peak
7311.104	30.48	12.68	43.16	54	-10.84	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6 (802.11b Mode)/2437	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.118	49.77	10.39	60.16	74	-13.84	peak
4874.060	33.64	10.39	44.03	54	-9.97	AVG
7311.087	48.22	12.68	60.9	74	-13.1	peak
7311.061	30.49	12.68	43.17	54	-10.83	AVG

Remark:





EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11 (802.11b Mode)/2462	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.097	49.75	10.39	60.14	74	-13.86	peak
4924.103	32.84	10.39	43.23	54	-10.77	AVG
7386.090	48.48	12.68	61.16	74	-12.84	peak
7386.057	31.32	12.68	44	54	-10	AVG
Remark:						
	enna Factor + C	able Loss –	Pre-amplifier.			

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
4924.047	49.82	10.39	60.21	74	-13.79	peak		
4924.059	33.61	10.39	44	54	-10	AVG		
7386.052	48.46	12.68	61.14	74	-12.86	peak		
7386.052	30.41	12.68	43.09	54	-10.91	AVG		
Remark: Factor = Ant	enna Factor + 0	Cable Loss – P	re-amplifier.			<u> </u>		



EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Tune
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4824.107	46.77	10.44	57.21	74	-16.79	peak
4824.122	36.62	10.44	47.06	54	-6.94	AVG
7236.094	42.32	12.39	54.71	74	-19.29	peak
7236.086	28.49	12.39	40.88	54	-13.12	AVG
emark:						

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin		
	J				Ŭ	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	,,,	
4824.057	46.53	10.44	56.97	74	-17.03	peak	
4824.099	36.78	10.44	47.22	54	-6.78	AVG	
7236.114	42.69	12.39	55.08	74	-18.92	peak	
7236.052	28.44	12.39	40.83	54	-13.17	AVG	
	1. 1						
Remark:	Remark:						



EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.090	45.77	10.4	56.17	74	-17.83	peak
4874.138	36.73	10.4	47.13	54	-6.87	AVG
7311.110	44.61	12.75	57.36	74	-16.64	peak
7311.158	32.96	12.75	45.71	54	-8.29	AVG
Remark:						
actor = Ant	enna Factor + (Cable Loss -	Pre-amplifier.			

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6 (802.11g Mode)/2437	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.157	48.82	10.4	59.22	74	-14.78	peak
4874.124	35.46	10.4	45.86	54	-8.14	AVG
7311.056	48.41	12.75	61.16	74	-12.84	peak
7311.068	33.29	12.75	46.04	54	-7.96	AVG
Remark:						1
actor = Ant	enna Factor + 0	Cable Loss –	Pre-amplifier.			





EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11 (802.11g Mode)/2462	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.075	49.68	10.39	60.07	74	-13.93	peak
4924.120	33.29	10.39	43.68	54	-10.32	AVG
7386.140	48.48	12.68	61.16	74	-12.84	peak
7386.135	30.27	12.68	42.95	54	-11.05	AVG
Remark:						

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11g Mode)/2462	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.113	46.69	10.39	57.08	74	-16.92	peak
4924.113	34.72	10.39	45.11	54	-8.89	AVG
7386.075	46.84	12.68	59.52	74	-14.48	peak
7386.063	33.63	12.68	46.31	54	-7.69	AVG
Remark:						•



EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.118	46.61	10.44	57.05	74	-16.95	peak
4824.063	36.76	10.44	47.2	54	-6.8	AVG
7236.065	42.69	12.39	55.08	74	-18.92	peak
7236.120	29.96	12.39	42.35	54	-11.65	AVG

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.054	46.41	10.44	56.85	74	-17.15	peak
4824.057	32.59	10.44	43.03	54	-10.97	AVG
7236.089	45.56	12.39	57.95	74	-16.05	peak
7236.068	31.25	12.39	43.64	54	-10.36	AVG
Remark:						



EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.101	51.88	10.4	62.28	74	-11.72	peak
4874.093	32.41	10.4	42.81	54	-11.19	AVG
7311.107	48.39	12.75	61.14	74	-12.86	peak
7311.093	28.48	12.75	41.23	54	-12.77	AVG
Remark:	<u> </u>					

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.158	48.72	10.4	59.12	74	-14.88	peak
4874.107	32.35	10.4	42.75	54	-11.25	AVG
7311.111	44.44	12.75	57.19	74	-16.81	peak
7311.157	26.76	12.75	39.51	54	-14.49	AVG
Remark:						

Remark:



EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4924.085	50.37	10.39	60.76	74	-13.24	peak
4924.044	35.68	10.39	46.07	54	-7.93	AVG
7386.128	43.54	12.68	56.22	74	-17.78	peak
7386.150	31.49	12.68	44.17	54	-9.83	AVG
Remark:						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4924.072	51.62	10.39	62.01	74	-11.99	peak
4924.060	34.81	10.39	45.2	54	-8.8	AVG
7386.105	42.52	12.68	55.2	74	-18.8	peak
7386.076	28.64	12.68	41.32	54	-12.68	AVG
	\ \					
-						_

Remark:



EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Horizontal

(15.10)		Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
47.88	10.5	58.38	74	-15.62	peak
31.73	10.5	42.23	54	-11.77	AVG
46.61	12.5	59.11	74	-14.89	peak
31.29	12.5	43.79	54	-10.21	AVG
	31.73 46.61	31.73 10.5 46.61 12.5	31.73 10.5 42.23 46.61 12.5 59.11	31.73 10.5 42.23 54 46.61 12.5 59.11 74	31.73 10.5 42.23 54 -11.77 46.61 12.5 59.11 74 -14.89

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization:	Vertical

(dBµV)	(dB)	_(dBµV/m)	(ID) (/)	·	Value Type
40 ==		(αυμ ۷/111)	(dBµV/m)	(dB)	,,
48.75	10.5	59.25	74	-14.75	peak
30.27	10.5	40.77	54	-13.23	AVG
48.25	12.5	60.75	74	-13.25	peak
29.48	12.5	41.98	54	-12.02	AVG
	30.27 48.25	30.27 10.5 48.25 12.5	30.27 10.5 40.77 48.25 12.5 60.75	30.27 10.5 40.77 54 48.25 12.5 60.75 74	30.27 10.5 40.77 54 -13.23 48.25 12.5 60.75 74 -13.25



EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.193	48.89	10.4	59.29	74	-14.71	peak
4874.189	33.73	10.4	44.13	54	-9.87	AVG
7311.077	47.64	12.75	60.39	74	-13.61	peak
7311.143	32.61	12.75	45.36	54	-8.64	AVG
emark:	<u> </u>			ļ		

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim	
Temperature:	20 ℃	Relative Humidity:	48%	
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery	
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization :	Vertical	

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4874.519	47.77	10.4	58.17	74	-15.83	peak
4874.452	34.62	10.4	45.02	54	-8.98	AVG
7311.579	46.45	12.75	59.2	74	-14.8	peak
7311.571	35.26	12.75	48.01	54	-5.99	AVG
Pomark:						

Remark:



EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4904.284	49.39	10.29	59.68	74	-14.32	peak
4904.343	35.48	10.29	45.77	54	-8.23	AVG
7356.195	48.52	12.79	61.31	74	-12.69	peak
7356.194	32.49	12.79	45.28	54	-8.72	AVG
o mo o rlei						
emark:						

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4904.066	50.53	10.29	60.82	74	-13.18	peak
4904.148	34.26	10.29	44.55	54	-9.45	AVG
7356.410	48.76	12.79	61.55	74	-12.45	peak
7356.324	32.59	12.79	45.38	54	-8.62	AVG
Remark:	1					ļ
actor = Ant	enna Factor + (Cable Loss – I	Pre-amplifier			

3.2.6 TEST RESULTS (BAND EDGE)

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11b Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2399.900	82.38	-13	69.38	74	-4.62	peak
2399.900	61.42	-13	48.42	54	-5.54	AVG
2400.000	82.52	-12.99	69.53	74	-4.41	peak
2400.000	61.61	-12.99	48.62	54	-5.74	AVG
Remark:						
Temark.						
actor = Ante	enna Factor + C	Cable Loss - I	Pre-amplifier.			

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11b Mode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2399.900	81.33	-13	68.33	74	-5.67	peak
2399.900	61.54	-13	48.54	54	-5.46	AVG
2400.000	78.25	-12.99	65.26	74	-8.74	peak
2400.000	59.81	-12.99	46.82	54	-7.18	AVG
emark:						
emark.						





EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11b Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2483.500	78.31	-12.78	65.53	74	-8.47	peak
2483.500	60.72	-12.78	47.94	54	-6.06	AVG
2483.600	76.38	-12.77	63.61	74	-10.39	peak
2483.600	60.12	-12.78	47.34	54	-6.66	AVG
Damanla						
Remark:						
Factor = Ante	enna Factor + C	able Loss – I	Pre-amplifier			

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%

Pressure: 1010 hPa Test Voltage: DC 3.7V from battery
Test Mode: CH11(802.11b Mode) Polarization: Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2483.500	77.46	-12.78	64.68	74	-9.32	peak
2483.500	60.41	-12.78	47.63	54	-6.37	AVG
2483.600	78.62	-12.77	65.85	74	-8.15	peak
2483.600	59.51	-12.77	46.74	54	-7.26	AVG



EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11g Mode)	Polarization :	Horizontal

					Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
76.56	-13	63.56	74	-10.44	peak
59.51	-13	46.51	54	-7.49	AVG
78.73	-12.99	65.74	74	-8.26	peak
58.62	-12.99	45.63	54	-8.37	AVG
	76.56 59.51 78.73	76.56 -13 59.51 -13 78.73 -12.99	76.56 -13 63.56 59.51 -13 46.51 78.73 -12.99 65.74	76.56 -13 63.56 74 59.51 -13 46.51 54 78.73 -12.99 65.74 74	76.56 -13 63.56 74 -10.44 59.51 -13 46.51 54 -7.49 78.73 -12.99 65.74 74 -8.26

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11gMode)	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2399.900	77.72	-13	64.72	74	-9.28	peak
2399.900	60.64	-13	47.64	54	-6.36	AVG
2400.000	78.51	-12.99	65.52	74	-8.48	peak
2400.000	62.38	-12.99	49.39	54	-4.61	AVG
Remark:						
Factor = Anto	enna Factor + 0	Cable Loss –	Pre-amplifier.			



EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11g Mode)	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2483.500	77.36	-12.78	64.58	74	-9.42	peak
2483.500	63.31	-12.78	50.53	54	-3.47	AVG
2483.600	76.18	-12.77	63.41	74	-10.59	peak
2483.600	61.35	-12.77	48.58	54	-5.42	AVG
Remark:						
Factor = Ant	enna Factor + (Cable Loss –	Pre-amplifier.			

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11g Mode)	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2483.500	76.71	-12.78	63.93	74	-10.07	peak
2483.500	60.83	-12.78	48.05	54	-5.95	AVG
2483.600	75.67	-12.77	62.9	74	-11.1	peak
2483.600	61.39	-12.77	48.62	54	-5.38	AVG
Remark:						
actor = Ant	enna Factor + C	able Loss -	Pre-amplifier.			





EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2399.900	76.72	-13	63.72	74	-10.28	peak
2399.900	58.26	-13	45.26	54	-8.74	AVG
2400.000	78.41	-12.99	65.42	74	-8.58	peak
2400.000	58.33	-12.99	45.34	54	-8.66	AVG
Remark:			,		ļ	ļ
Factor = Ante	enna Factor + C	able Loss –	Pre-amplifier.			

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11n Mode)/20M	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2399.900	77.52	-13	64.52	74	-9.48	peak
2399.900	58.46	-13	45.46	54	-8.54	AVG
2400.000	76.45	-12.99	63.46	74	-10.54	peak
2400.000	59.39	-12.99	46.4	54	-7.6	AVG
						1
Remark:			, ,			
actor = An	tenna Factor +	Cable Loss -	- Pre-amplifier.			



Page 38 of 76 Report No.: STS1506078F03

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	 Value Type
2483.500	77.73	-12.78	64.95	74	-9.05	peak
2483.500	56.61	-12.78	43.83	54	-10.17	AVG
2483.600	75.52	-12.77	62.75	74	-11.25	peak
2483.600	57.43	-12.77	44.66	54	-9.34	AVG
Remark:						

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization:	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2483.500	73.84	-12.78	61.06	74	-12.94	peak
2483.500	59.68	-12.78	46.9	54	-7.1	AVG
2483.600	73.53	-12.78	60.75	74	-13.25	peak
2483.600	59.44	-12.78	46.66	54	-7.34	AVG
						
Remark:						1
actor = Ante	enna Factor + C	Cable Loss –	Pre-amplifier.		_	





EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH3(802.11n Mode)/40M	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2399.900	77.85	-13	64.85	74	-9.15	peak
2399.900	59.86	-13	46.86	54	-7.14	AVG
2400.000	77.45	-12.99	64.46	74	-9.54	peak
2400.000	59.36	-12.99	46.37	54	-7.63	AVG
Remark:						

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2399.900	80.87	-13	67.87	74	-6.13	peak
2399.900	55.29	-13	42.29	54	-11.71	AVG
2400.000	78.42	-12.99	65.43	74	-8.57	peak
2400.000	54.63	-12.99	41.64	54	-12.36	AVG
Remark:			·	<u> </u>	<u> </u>	

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



Page 40 of 76 Report No.: STS1506078F03

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization:	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
2483.500	76.72	-12.78	63.94	74	-10.06	peak	
2483.500	59.63	-12.78	46.85	54	-7.15	AVG	
2483.600	77.46	-12.77	64.69	74	-9.31	peak	
2483.600	58.88	-12.77	46.11	54	-7.89	AVG	
temark:							
actor = Ante	actor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	20 ℃	Relative Humidity:	48%

Pressure : 1010 hPa Test Voltage : DC 3.7V from battery

Test Mode : CH9(802.11n Mode)/40MHz Polarization : Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
2483.500	77.45	-12.78	64.67	74	-9.33	peak
2483.500	60.41	-12.78	47.63	54	-6.37	AVG
2483.600	78.68	-12.78	65.9	74	-8.1	peak
2483.600	59.38	-12.78	46.6	54	-7.4	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.





4.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

4.2 TEST PROCEDURE

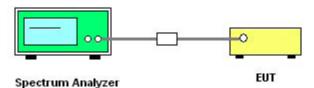
Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

For Band edge

Spectrum Parameter	Setting	
Detector	Peak	
Ctart/Ctap Fraguency	Lower Band Edge: 2300 to 2430 MHz	
Start/Stop Frequency	Upper Band Edge: 2450 to 2500 MHz	
RB / VB (emission in restricted band)	100 KHz/300 KHz	
Trace-Mode:	Max hold	

4.3 DEVIATION FROM STANDARD No deviation.

4.4 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

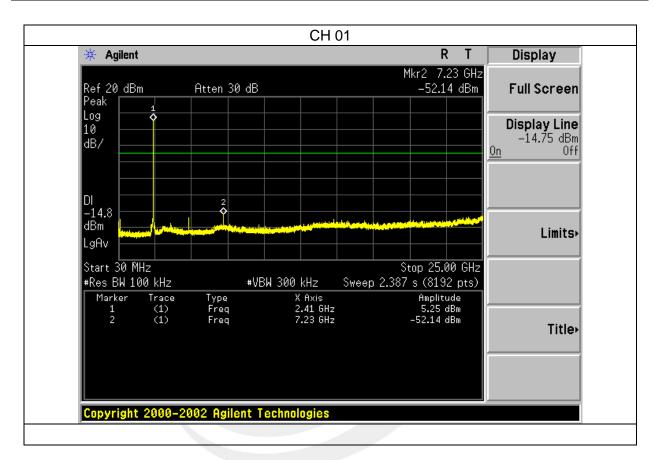
4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

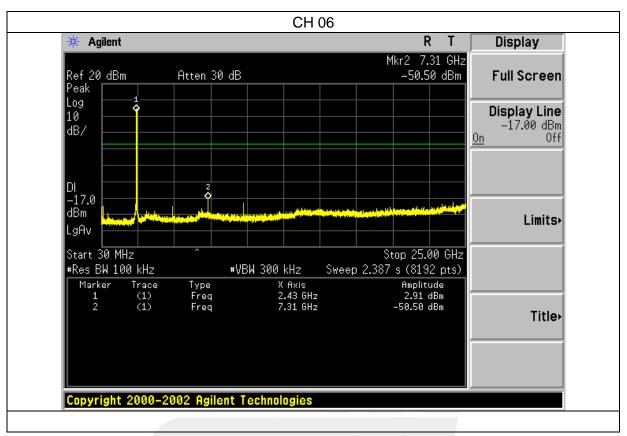


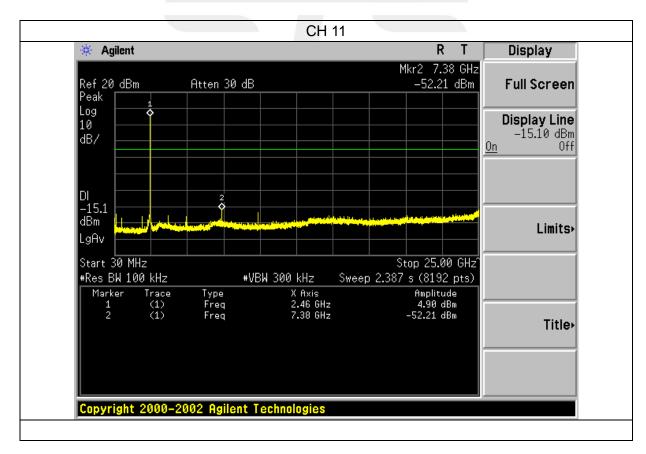
4.6 TEST RESULTS

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX b Mode /CH01, CH06, CH11		



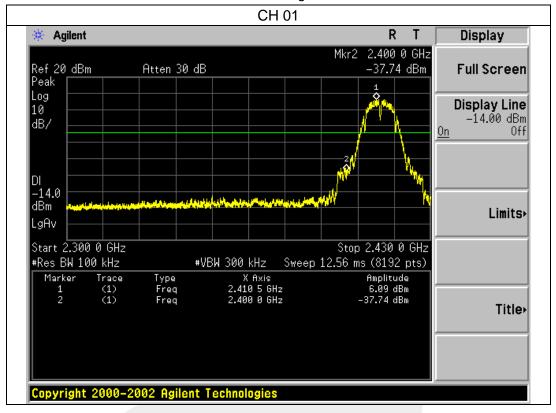


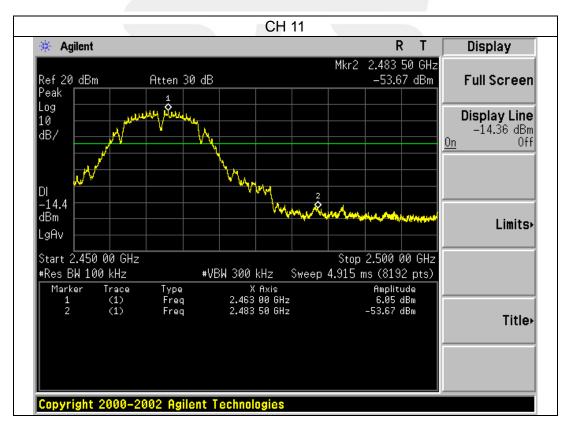








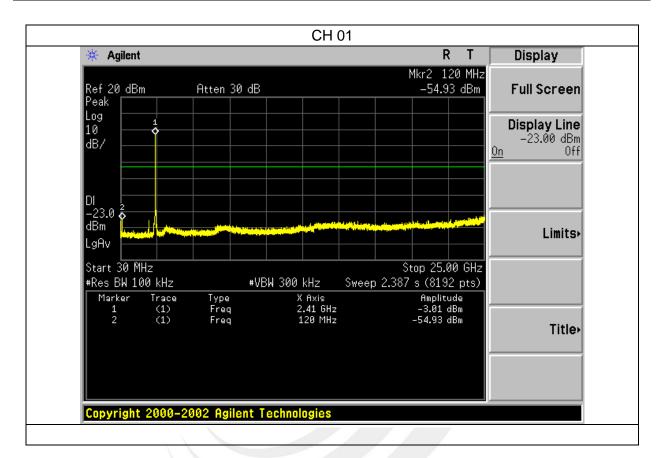




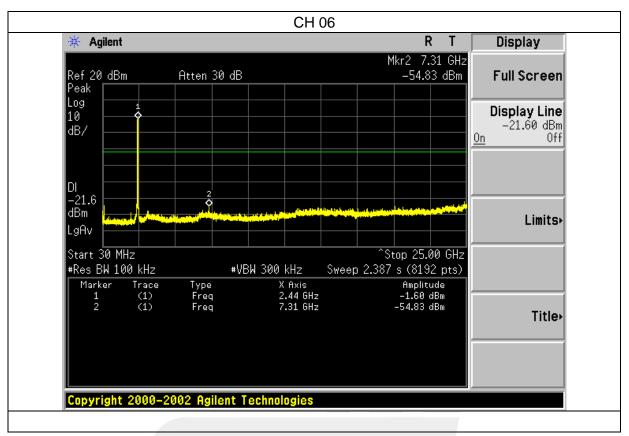


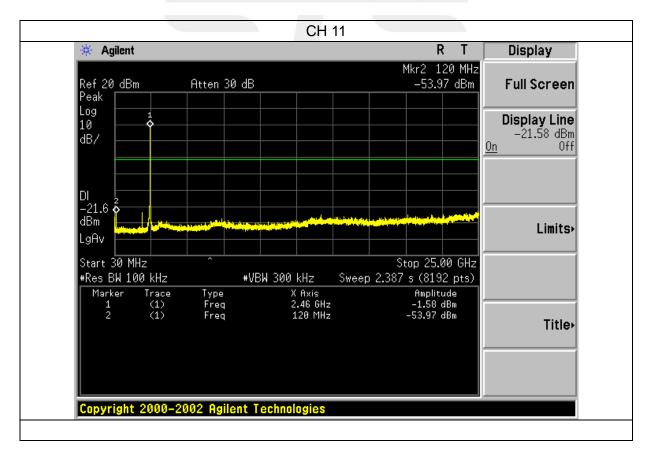
Page 45 of 76 Report No.: STS1506078F03

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim	
Temperature:	25 ℃	Relative Humidity:	60%	
Pressure:	1015 hPa	Test Voltage :	DC 3.7V from battery	
Test Mode :	Mode : TX g Mode /CH01, CH06, CH11			

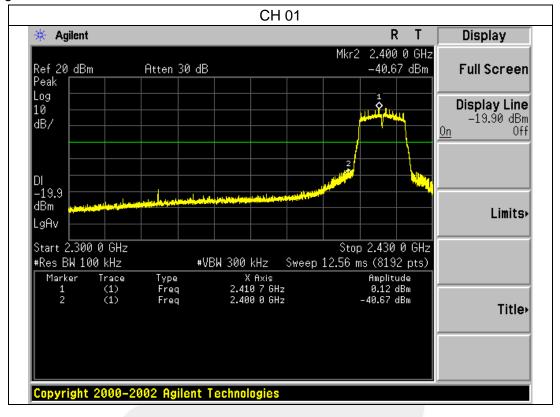


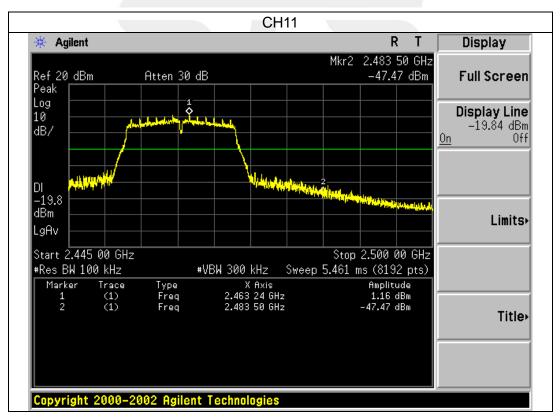








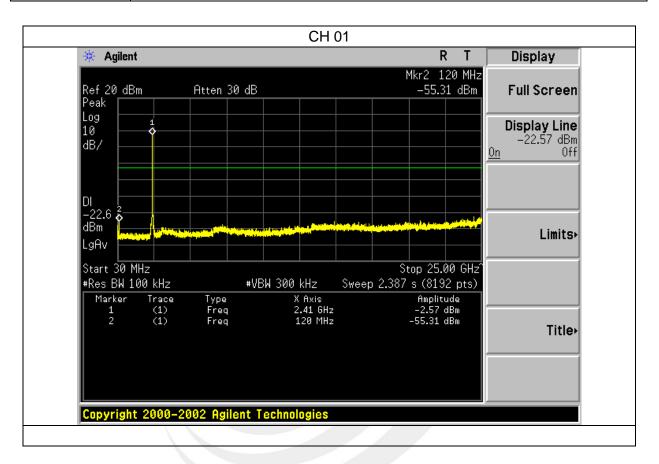




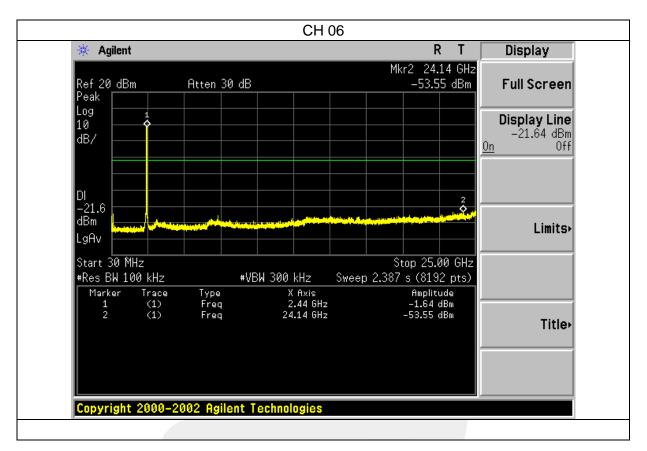


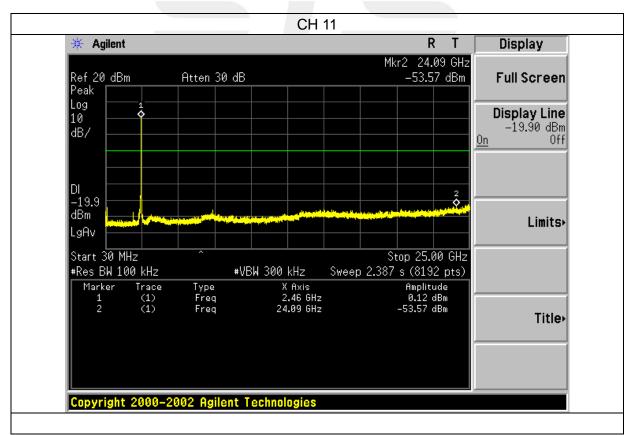


EUT:	3G Mobile phone	Model Name :	E7 Dual Sim	
Temperature:	25 ℃	Relative Humidity:	60%	
Pressure :	1015 hPa	Test Voltage :	DC 3.7V from battery	
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11			

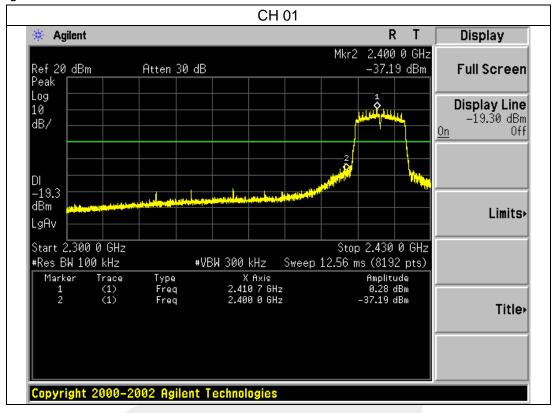


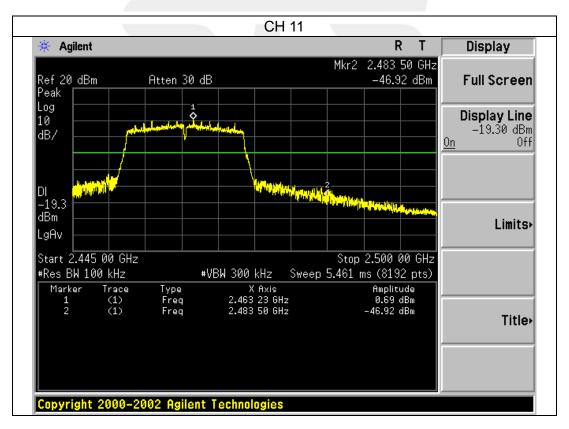






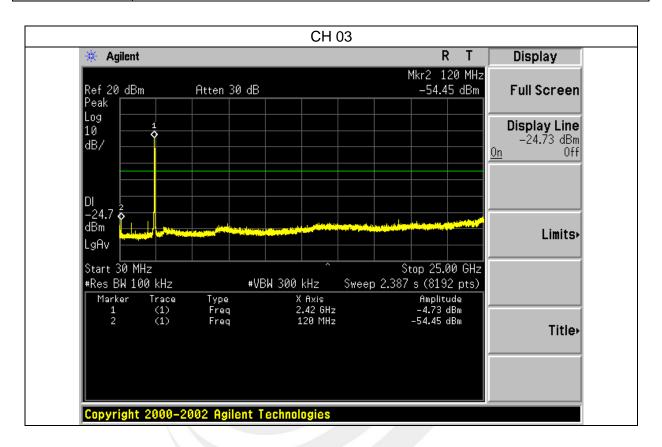






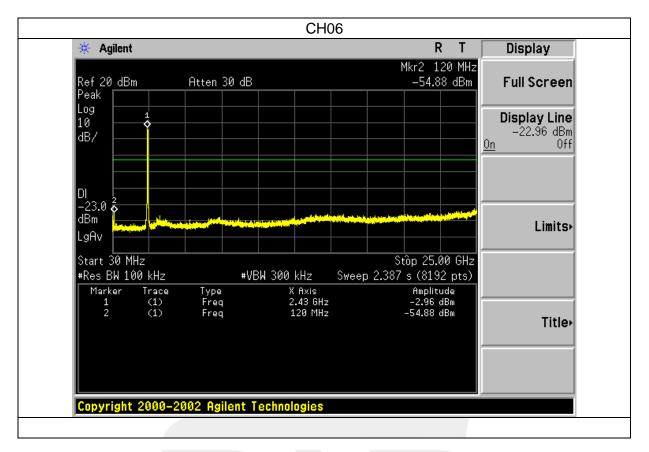


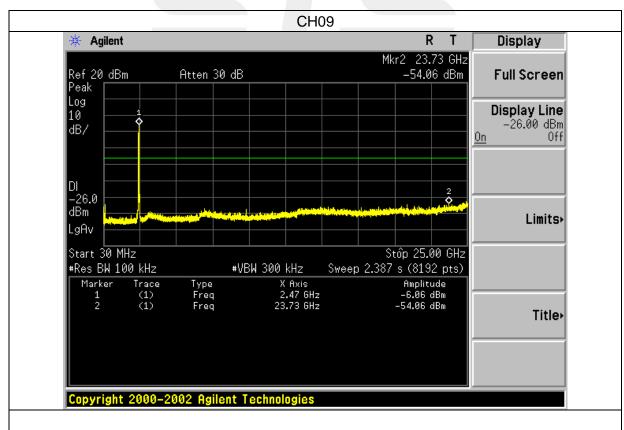
EUT:	3G Mobile phone	Model Name :	E7 Dual Sim	
Temperature:	25 ℃	Relative Humidity:	60%	
Pressure :	1015 hPa	Test Voltage :	DC 3.7V from battery	
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09			



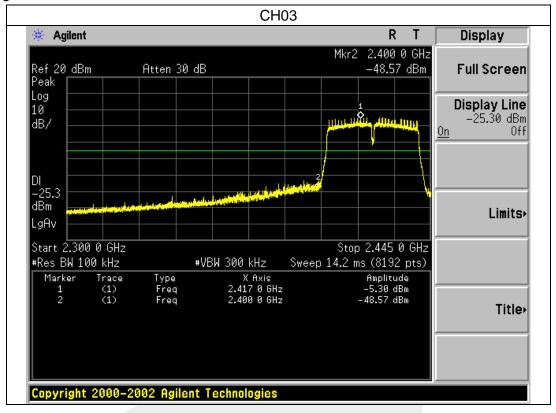


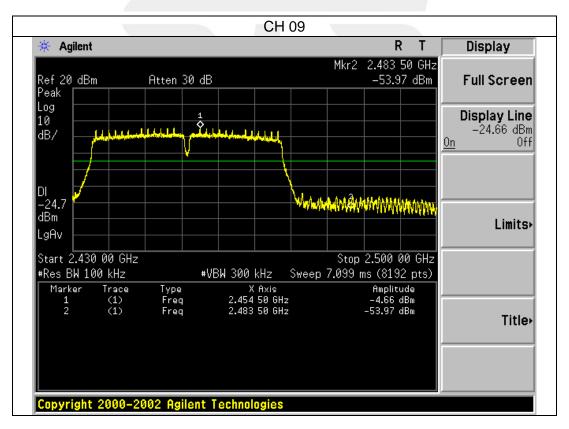














5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS		

5.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW \geq 3 kHz.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD No deviation.

5.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

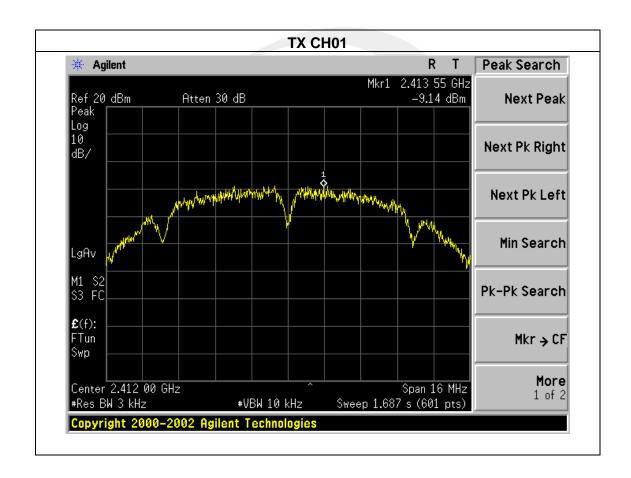




5.6 TEST RESULTS

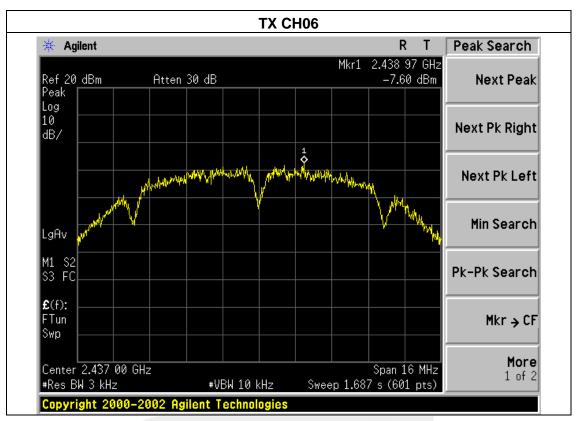
EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage :	DC 3.7V from battery
Test Mode : TX b Mode /CH01, CH06, CH11			

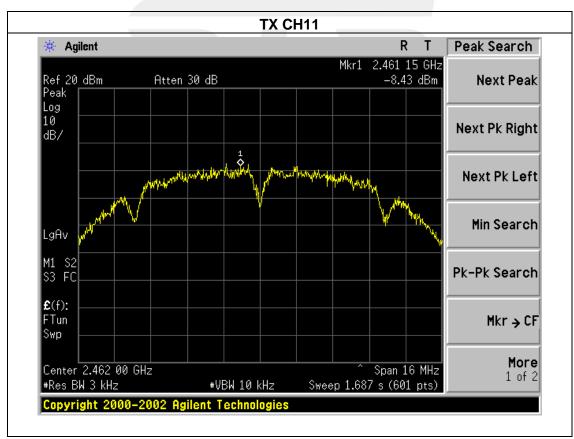
Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-9.14	8	PASS
2437 MHz	-7.60	8	PASS
2462 MHz	-8.43	8	PASS









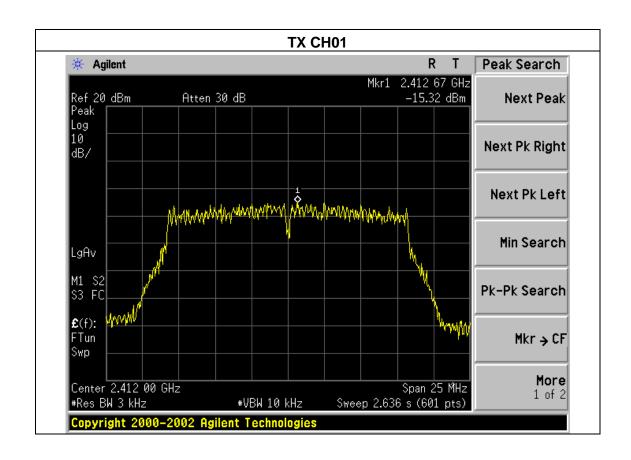


Report No.: STS1506078F03

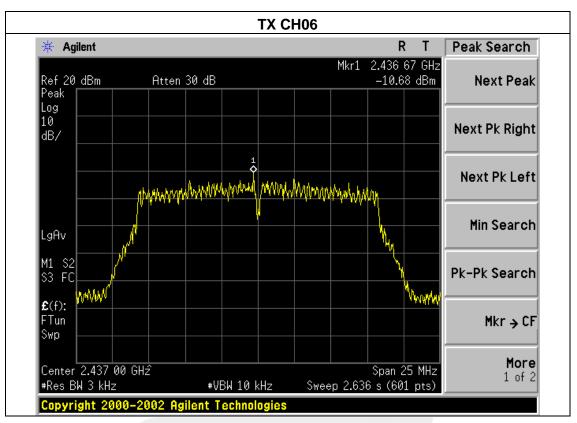


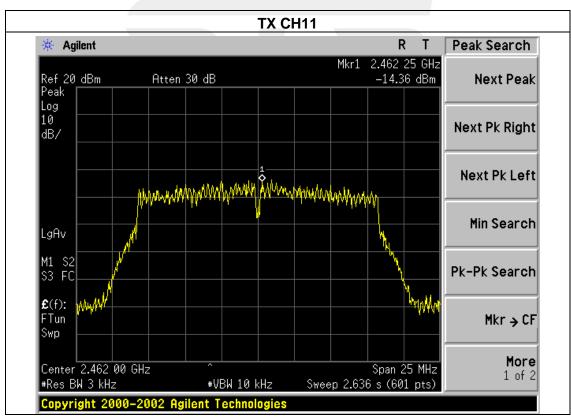
EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V from battery
Test Mode : TX g Mode /CH01, CH06, CH11			

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-15.32	8	PASS
2437 MHz	-10.68	8	PASS
2462 MHz	-14.36	8	PASS







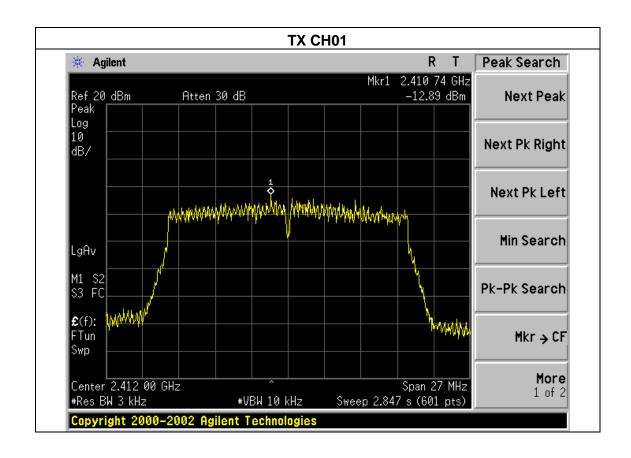




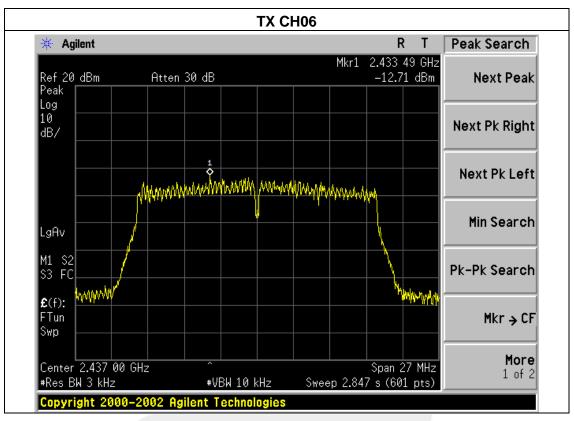


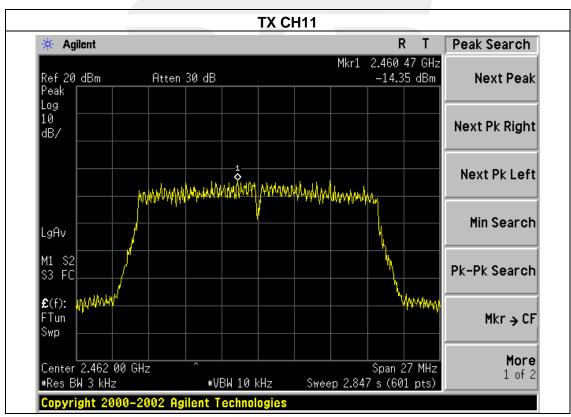
EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V from battery
Test Mode : TX n Mode(20M) /CH01, CH06, CH11			

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-12.89	8	PASS
2437 MHz	-12.71	8	PASS
2462 MHz	-14.35	8	PASS







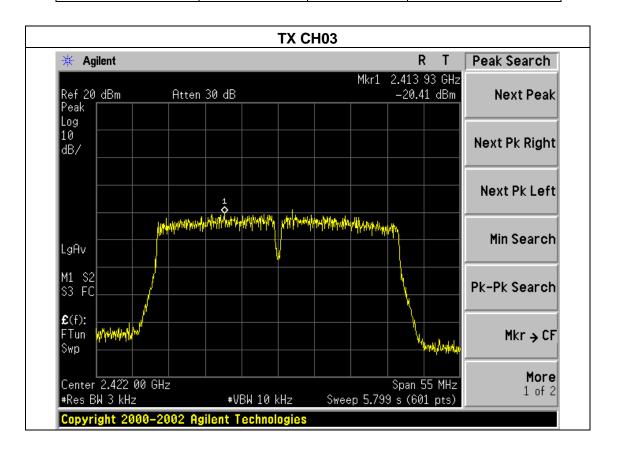


Report No.: STS1506078F03

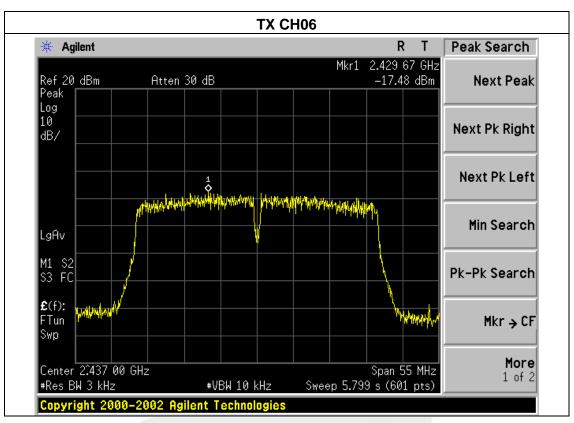


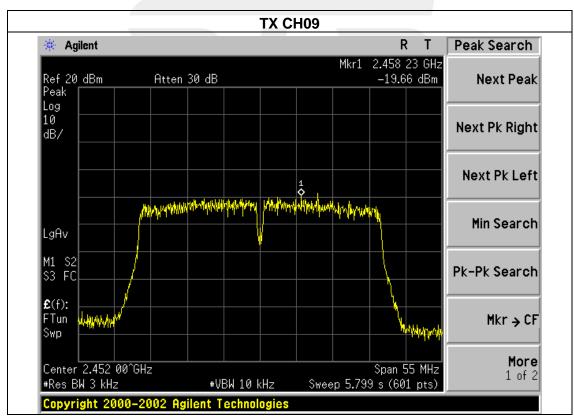
EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V from battery
Test Mode : TX n Mode(40M) /CH03, CH06, CH09			

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422 MHz	-20.41	8	PASS
2437 MHz	-17.48	8	PASS
2452 MHz	-19.66	8	PASS











6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

6.2 TEST PROCEDURE

- 1. Set RBW = 100 kHz.
- 2. Set the video bandwidth (VBW) ≥ 3 ′ RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 d B relative to the maximum level measured in the fundamental emission.

6.3 DEVIATION FROM STANDARD No deviation.

6.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.5 EUT OPERATION CONDITIONS

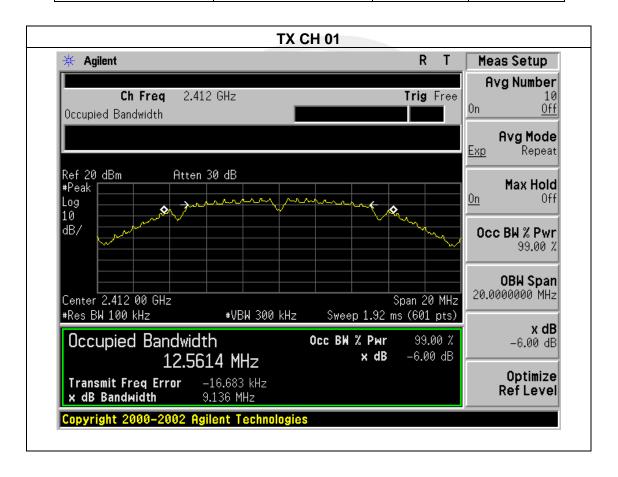
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



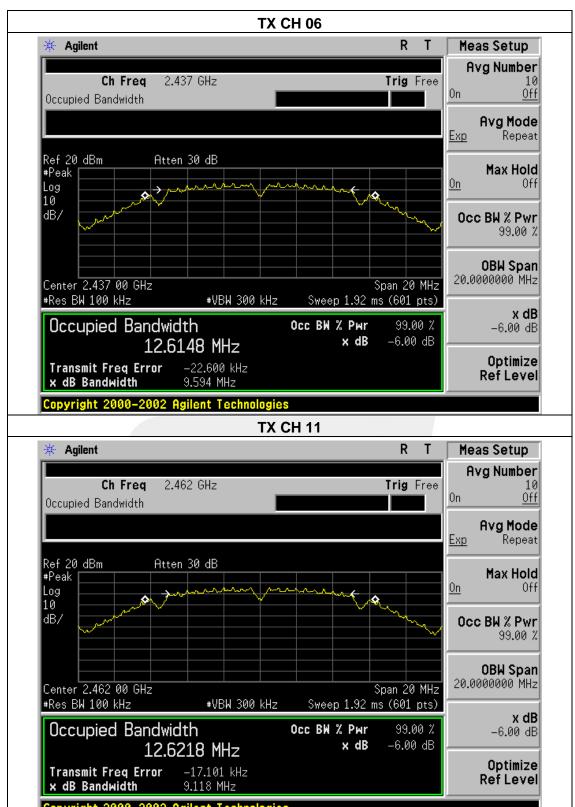
6.6 TEST RESULTS

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V from battery
Test Mode : TX b Mode /CH01, CH06, CH11			

Frequency	6dB Bandwidth (MHz)	Channel Separation	Result
2412 MHz	9.136	>=500KHz	PASS
2437 MHz	9.594	>=500KHz	PASS
2462 MHz	9.118	>=500KHz	PASS





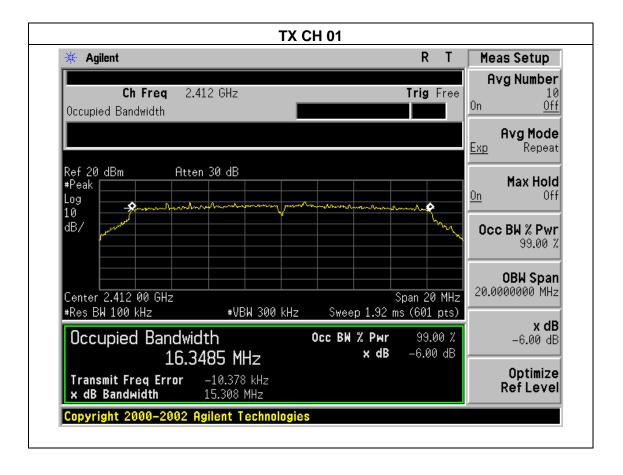


Report No.: STS1506078F03



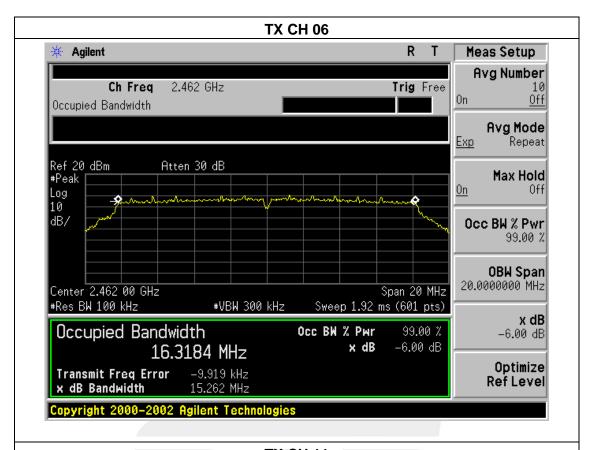
EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX g Mode /CH01, CH06, CH11		

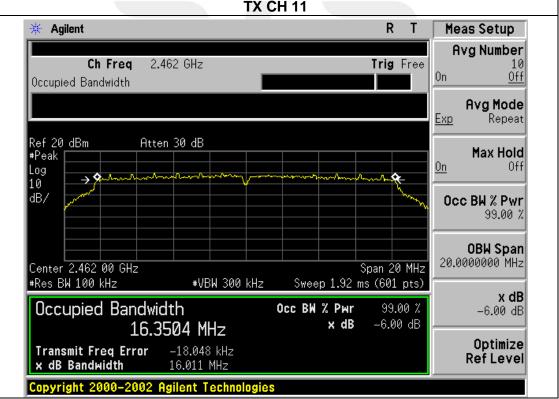
Frequency	6dB Bandwidth (MHz)	Channel Separation	Result
2412 MHz	15.308	>=500KHz	PASS
2437 MHz	15.262	>=500KHz	PASS
2462 MHz	16.011	>=500KHz	PASS









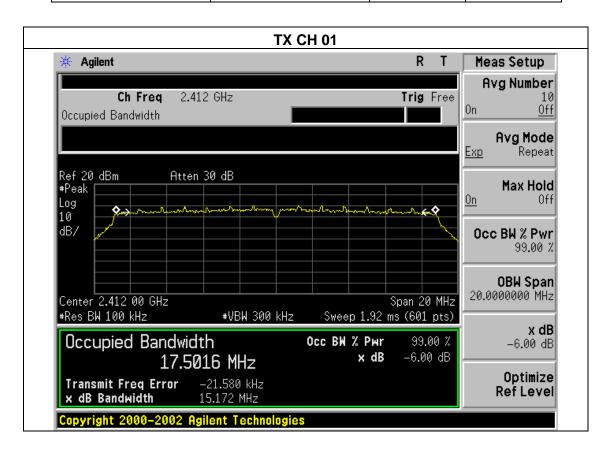




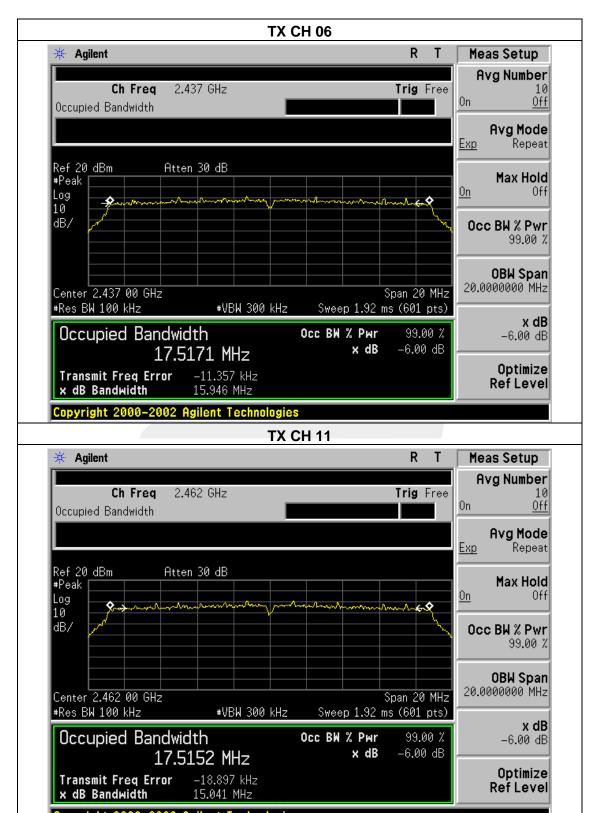


EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V from battery
Test Mode : TX n Mode(20M) /CH01, CH06, CH11			

Frequency	6dB Bandwidth (MHz)	Channel Separation	Result
2412 MHz	15.172	>=500KHz	PASS
2437 MHz	15.946	>=500KHz	PASS
2462 MHz	15.041	>=500KHz	PASS





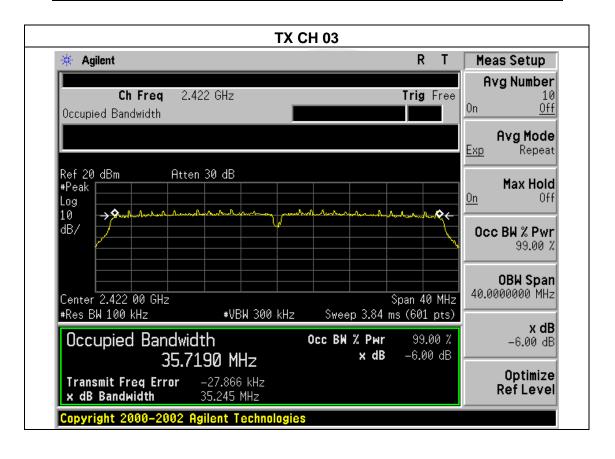




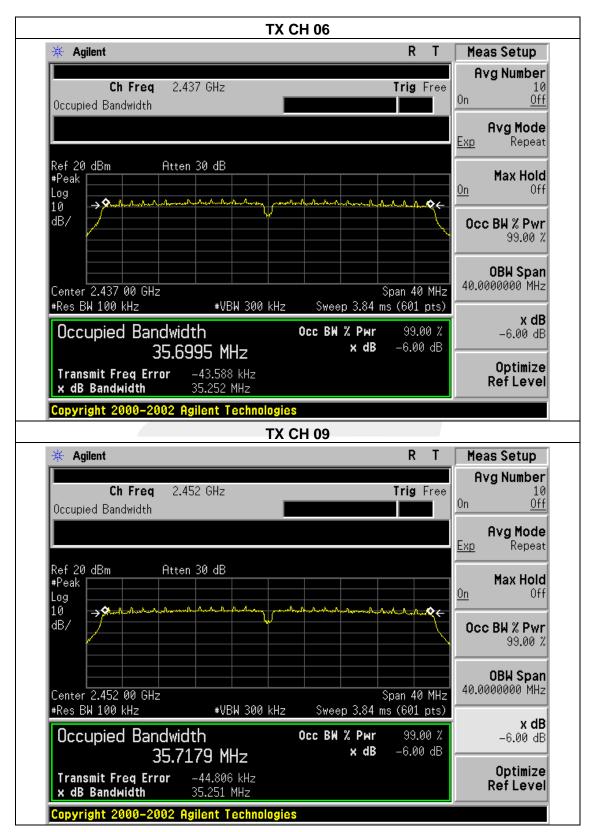


EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V from battery
Test Mode : TX n Mode(40M) /CH03, CH06, CH09			

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2422 MHz	35.245	>=500KHz	PASS
2437 MHz	35.252	>=500KHz	PASS
2452 MHz	35.251	>=500KHz	PASS









7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Section Test Item Limit Frequency Range (MHz)			Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&Power meter

7.3 DEVIATION FROM STANDARD No deviation.

7.4 TEST SETUP

7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.





7.5 TEST RESULTS

EUT:	3G Mobile phone	Model Name :	E7 Dual Sim
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	st Mode : TX b/g/n(20M,40M) Mode /CH01, CH06, CH11		

TX 802.11b Mode			
Test	Frequency	Peak Conducted Output Power	LIMIT
Channe	(MHz)	(dBm)	dBm
CH01	2412	11.69	30
CH06	2437	11.54	30
CH11	2462	11.41	30

	TX 802.11g Mode			
Test	Frequency	Peak Conducted Output Power	LIMIT	
Channe	(MHz)	(dBm)	dBm	
CH01	2412	10.29	30	
CH06	2437	10.25	30	
CH11	2462	10.18	30	

	TX 802.11n20 Mode			
Test	Frequency	Peak Conducted Output Power	LIMIT	
Channe	(MHz)	(dBm)	dBm	
CH01	2412	10.13	30	
CH06	2437	10.09	30	
CH11	2462	10.06	30	

TX 802.11n40 Mode			
Test	Frequency	Peak Conducted Output Power	LIMIT
Channe	(MHz)	(dBm)	dBm
CH03	2422	8.26	30
CH06	2437	8.15	30
CH09	2452	8.12	30



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

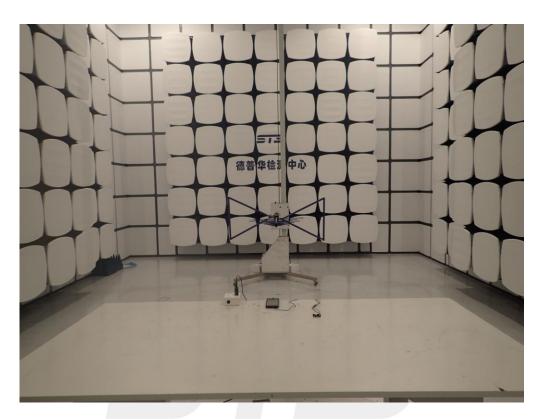
The EUT antenna is PIFA Antenna. It comply with the standard requirement.

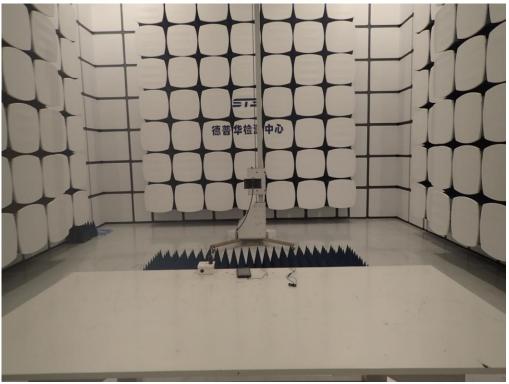




APPENDIX - PHOTOS OF TEST SETUP

Radiated Measurement Photos







Conducted Measurement Photos

