S T S



FCC TEST REPORT

Report No: STS1412032F03

Issued for

UNNECTO HOLDING LIMITED

ROOM 1501(445),15/F.,SPA CENTRE,53-55 LOCKHART
ROAD,WANCHAI,HONGKONG

Product Name:	3G MOBILE PHONE
Brand Name:	unnecto ™
Model No.:	U901
Series Model:	N/A
FCC ID:	2ADR3U901
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant's name	UNNECTO HOLDING LIMITED
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ROAD, WANCHAI, HONGKONG

Manufacture's Name SHENZHEN UNI-ONE ELECTRONIC CO.,LTD

Shenzhen, P.R. China

Product description

Product name 3G MOBILE PHONE

Model and/or type reference .: U901
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.

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Date of Test

Date (s) of performance of tests 16 Dec. 2014 ~23 Dec. 2014

Date of Issue...... 24 Dec. 2014

Test Result Pass

Testing Engineer :

(Iony Liu)

Technical Manager:

(Vita Li)

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 PHONE			
Trade Name	unnecto ™			
Model Name	U901			
Serial Model	N/A			
Model Difference	N/A			
Product Description	The EUT is a 3G MOBILE PHONE Operation			
Channel List	Please refer to the Note 2.			
Ratings	DC 3.8V from battery			
Adapter	Power supply and ADP (rating): Input:100-240V AC,50/60Hz 0.18A Output:5.0V,1000mA			
Battery	Rated Voltage: 3.8V Charge Limit: 4.35V capacity:1700mAh			
Hardware version number	U08-MB-V0.1-20141031			
Software versioning number	UNI_C441A4_1.5.140916			
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	80	2447	11	2462
	03	2422	06	2437	09	2452		



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

3. Table for Filed Antenna

An	t Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
Α	N/A	N/A	PIFA Antenna	NA	-1.3	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	

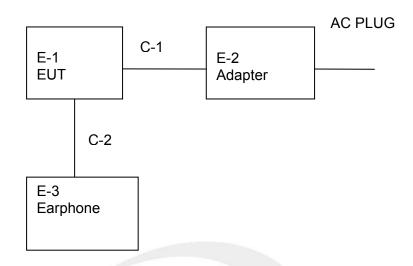
For Radiated Emission				
Final Test Mode	Description			
Mode 1	802.11b CH1/ CH6/ CH11			
Mode 2	802.11g CH1/ CH6/ CH11			
Mode 3	802.11n CH1/ CH6/ CH11			
Mode 4	802.11n(40) CH3/ CH6/ CH9			
Mode 5	Link Mode			

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



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	Model/Type No.	Series No.	Note
E-1	3G MOBILE PHONE	unnecto ™	U901	N/A	EUT
E-2	Adapter	unnecto ™	CU-901	N/A	
E-3	Earphone	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	YES	1.5m	
C-2	NO	NO	1.2m	

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	2014.06.08	2015.06.07
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	N/A	R01	N/A	2014.10.25	2015.10.24
High frequency cable	N/A	R02	N/A	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.

EDEOLIENCY (MH=)	Class B	Standard	
FREQUENCY (MHz)	Quasi-peak	Average	Standard
0.15 -0.5	.15 -0.5 66 - 56 *		CISPR
0.50 -5.0	56.00	46.00	CISPR
5.0 -30.0	5.0 -30.0 60.00		CISPR

0.15 -0.5	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		



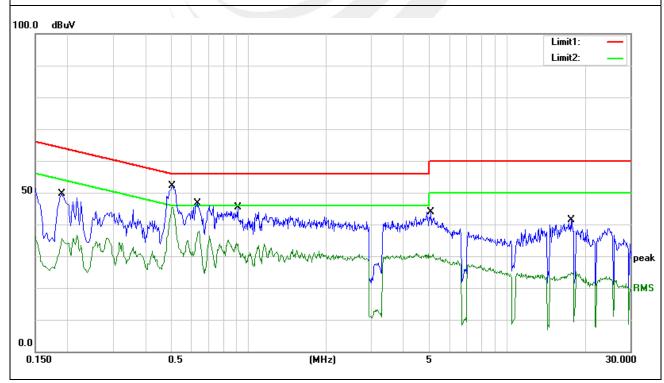
3.1.2 TEST RESULTS

EUT:	3G MOBILE PHONE	Model Name. :	U901
Temperature :	23 ℃	Relative Humidity:	50%
Pressure :	1010hPa	Phase :	L
riest voltage .	DC 5V from Adapter AC 120V/60Hz	Test Mode:	Link Mode

Frequency	Reading	Correct	Result	Limit	Margin	
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1913	30.74	10.44	41.18	63.98	-22.8	QP
0.1913	22.45	10.44	32.89	53.98	-21.12	AVG
0.5132	36.68	10.4	47.08	56	-8.96	QP
0.5132	28.05	10.4	38.45	46	-7.55	AVG
0.6397	32.93	10.41	43.34	56	-12.66	QP
0.6397	27.15	10.41	37.56	46	-8.44	AVG
0.9007	28.57	10.41	38.98	56	-16.93	QP
0.9007	23.33	10.41	33.74	46	-12.26	AVG
5.1063	25.28	10.64	35.92	60	-24.08	QP
5.1063	15.25	10.64	25.89	50	-24.2	AVG
17.6946	21.82	10.72	32.54	60	-27.46	QP
17.6946	13.13	10.72	23.85	50	-26.15	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.



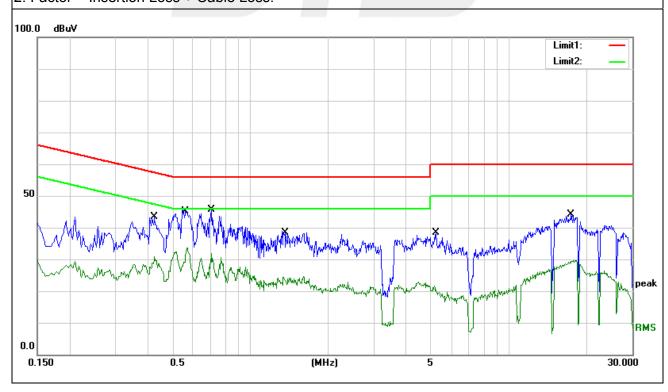


EUT:	3G MOBILE PHONE	Model Name. :	U901
Temperature :	23 ℃	Relative Humidity:	50%
Pressure :	1010hPa	Phase :	N
riesi vollage .	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Link Mode

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.4243	27.69	10.42	41.14	57.36	-22.84	QP
0.4243	16.35	10.42	32.86	47.36	-21.12	AVG
0.5592	30.33	10.41	47.04	56	-8.96	QP
0.5592	19.74	10.41	38.45	46	-7.55	AVG
0.7083	29.43	10.4	43.34	56	-12.66	QP
0.7083	20.28	10.4	37.56	46	-8.44	AVG
1.3444	23.25	10.45	39.07	56	-16.93	QP
1.3444	12.07	10.45	33.74	46	-12.26	AVG
5.2108	20.03	10.67	35.92	60	-24.08	QP
5.2108	8.94	10.67	25.8	50	-24.2	AVG
17.4073	25.88	10.74	32.54	60	-27.46	QP
17.4073	16.57	10.74	23.85	50	-26.15	AVG

Remark:

- All readings are Quasi-Peak and Average values.
 Factor = Insertion Loss + Cable Loss.





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)

EDEOLIENCY (MHz)	Class B (dBuV/m) (at 3M)	
FREQUENCY (MHz)	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 MU- / 1 MU- AV-1 MU- / 10U-
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 or of the substitution antenna 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.

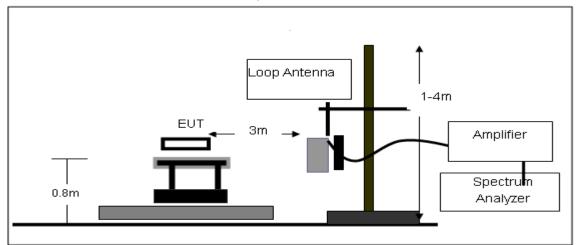
Note:

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

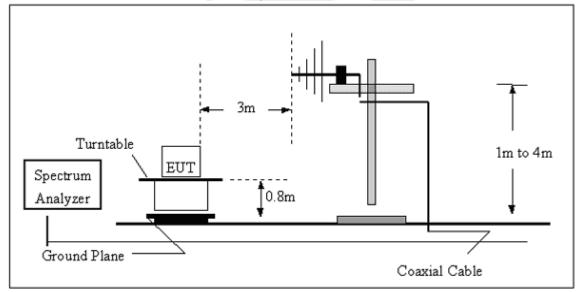


3.2.3 TEST SETUP

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

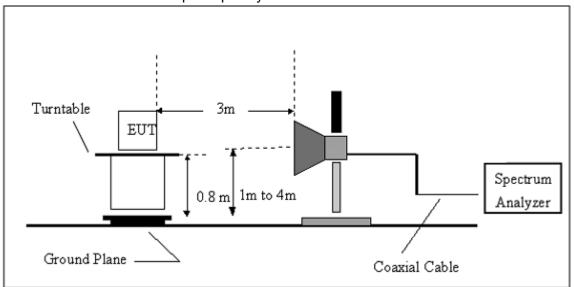


(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





(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. :	U901
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	LIAST VOLTAGE .	DC 5V from Adapter with AC 120V/60Hz
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.

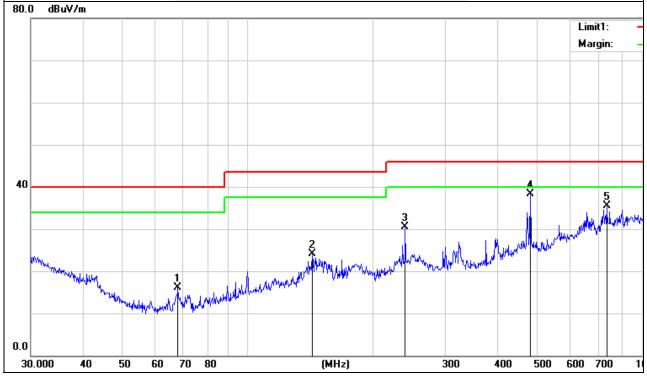


30MHz - 1000MHz

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TIEST VANIANE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	Link mode	Polarization :	Horizontal

				V		
Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
67.9130	10.05	6.13	16.18	40	-23.82	QP
143.3261	11.39	12.67	24.06	43.5	-19.44	QP
239.9873	18.35	12.15	30.5	46	-15.5	QP
480.5276	17.98	20.4	38.38	46	-7.62	QP
734.4913	9.74	25.89	35.63	46	-10.37	QP
962.1623	13.29	29.32	42.61	54	-11.39	QP

Remark:



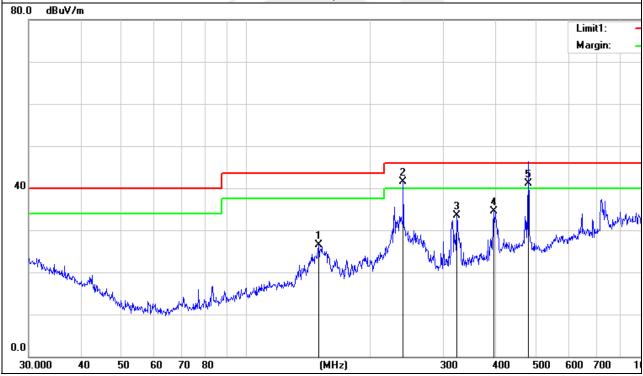




EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIAST VAITARA	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	Link mode	Polarization :	Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
150.0108	14.15	12.33	26.48	43.5	-17.02	QP
239.9873	29.53	12.15	41.68	46	-4.32	QP
323.3204	17.27	16.22	33.49	46	-12.51	QP
396.2415	15.87	18.65	34.52	46	-11.48	QP
480.5276	20.82	20.4	41.22	46	-4.78	QP
962.1623	17.35	29.32	46.67	54	-7.33	QP

Remark:







Above 1000MHz

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
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)	
4824.051	46.74	10.44	57.18	74	-16.82	peak
4824.051	31.65	10.44	42.09	54	-11.91	AVG
7236.123	42.21	12.39	54.6	74	-19.4	peak
7236.123	33.89	12.39	46.28	54	-7.72	AVG

Re	m	_	rl	1	
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Factor = Antenna Factor + Cable Loss - Pre-amplifier.

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VOHANA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1 (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
4924.086	48.13	10.39	58.52	74	-15.48	peak
4924.073	34.32	10.39	44.71	54	-9.29	AVG
7386.134	47.25	12.68	59.93	74	-14.07	peak
7386.062	30.25	12.68	42.93	54	-11.07	AVG
Remark:						





EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
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
4924.138	49.04	10.39	59.43	74	-14.57	peak
4924.076	33.15	10.39	43.54	54	-10.46	AVG
7386.065	48.35	12.68	61.03	74	-12.97	peak
7386.092	30.74	12.68	43.42	54	-10.58	AVG
Remark:						

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TIEST VOHADE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
49.11	10.39	59.5	74	-14.5	peak
33.85	10.39	44.24	54	-9.76	AVG
48.21	12.68	60.89	74	-13.11	peak
30.81	12.68	43.49	54	-10.51	AVG
	(dBµV) 49.11 33.85 48.21	(dBμV) (dB) 49.11 10.39 33.85 10.39 48.21 12.68	(dBμV) (dB) (dBμV/m) 49.11 10.39 59.5 33.85 10.39 44.24 48.21 12.68 60.89	(dBμV) (dB) (dBμV/m) (dBμV/m) 49.11 10.39 59.5 74 33.85 10.39 44.24 54 48.21 12.68 60.89 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dB) 49.11 10.39 59.5 74 -14.5 33.85 10.39 44.24 54 -9.76 48.21 12.68 60.89 74 -13.11

Remark:





EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIAST VIOLIZION	DC 5V from Adapter with AC 120V/60Hz
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
4924.041	49.15	10.39	59.54	74	-14.46	peak
4924.072	33.43	10.39	43.82	54	-10.18	AVG
7386.132	48.58	12.68	61.26	74	-12.74	peak
7386.071	30.82	12.68	43.5	54	-10.5	AVG
Damanic						
Remark:						
Remark: Factor = Ant	enna Factor + C	able Loss – P	re-amplifier.			

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Hest voltage .	DC 5V from Adapter with AC 120V/60Hz
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
4924.105	49.38	10.39	59.77	74	-14.23	peak
4924.136	33.74	10.39	44.13	54	-9.87	AVG
7386.082	48.21	12.68	60.89	74	-13.11	peak
7386.117	30.88	12.68	43.56	54	-10.44	AVG
Remark:						
-actor = Ant	enna Factor + C	able Loss -	Pre-amplifier.		•	





EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIAST VIOLIZION	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Horizontal

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
45.21	10.44	55.65	74	-18.35	peak
36.51	10.44	46.95	54	-7.05	AVG
42.38	12.39	54.77	74	-19.23	peak
28.29	12.39	40.68	54	-13.32	AVG
	(dBµV) 45.21 36.51 42.38	(dBµV) (dB) 45.21 10.44 36.51 10.44 42.38 12.39	(dBμV) (dB) (dBμV/m) 45.21 10.44 55.65 36.51 10.44 46.95 42.38 12.39 54.77	(dBμV) (dB) (dBμV/m) (dBμV/m) 45.21 10.44 55.65 74 36.51 10.44 46.95 54 42.38 12.39 54.77 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 45.21 10.44 55.65 74 -18.35 36.51 10.44 46.95 54 -7.05 42.38 12.39 54.77 74 -19.23

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
4824.078	44.45	10.44	54.89	74	-19.11	peak	
4824.042	36.51	10.44	46.95	54	-7.05	AVG	
7236.038	42.35	12.39	54.74	74	-19.26	peak	
7236.085	28.15	12.39	40.54	54	-13.46	AVG	
Remark:							
Factor = Ante	nna Factor + C	able Loss – P	re-amplifier.				

Report No.: STS1412032F03



EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
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
4874.126	45.38	10.4	55.78	74	-18.22	peak
4874.116	26.56	10.4	36.96	54	-17.04	AVG
7311.073	44.75	12.75	57.5	74	-16.5	peak
7311.083	25.27	12.75	38.02	54	-15.98	AVG
Remark:	•		•		•	•
actor = Ant	enna Factor + 0	Cable Loss -	- Pre-amplifier.			

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Hest vollage .	DC 5V from Adapter with AC 120V/60Hz
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	
4874.084	48.27	10.4	58.67	74	-15.33	peak	
4874.120	35.21	10.4	45.61	54	-8.39	AVG	
7311.127	48.38	12.75	61.13	74	-12.87	peak	
7311.062	33.58	12.75	46.33	54	-7.67	AVG	
Remark:						•	
Factor = Anto	enna Factor + (Cable Loss –	Pre-amplifier.				





EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
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
4924.045	49.58	10.39	59.97	74	-14.03	peak
4924.132	33.96	10.39	44.35	54	-9.65	AVG
7386.086	48.21	12.68	60.89	74	-13.11	peak
7386.084	30.47	12.68	43.15	54	-10.85	AVG
Remark:	•		•			•
actor = Ant	enna Factor + C	able Loss – I	Pre-amplifier.			

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
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
4924.059	47.78	10.39	58.17	74	-15.83	peak
4924.126	34.52	10.39	44.91	54	-9.09	AVG
7386.042	46.49	12.68	59.17	74	-14.83	peak
7386.049	33.91	12.68	46.59	54	-7.41	AVG
	<u> </u>					
Remark:						į





EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VOIIANA .	DC 5V from Adapter with AC 120V/60Hz
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		
4824.069	46.85	10.44	57.29	74	-16.71	peak		
4824.058	36.51	10.44	46.95	54	-7.05	AVG		
7236.107	42.35	12.39	54.74	74	-19.26	peak		
7236.040	28.32	12.39	40.71	54	-13.29	AVG		
Remark:								
Costor - Anto	Costor - Antonno Factor + Cable Logo - Dro amplifier							

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VOHANA .	DC 5V from Adapter with AC 120V/60Hz
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
4824.058	45.75	10.44	56.19	74	-17.81	peak
4824.091	36.21	10.44	46.65	54	-7.35	AVG
7236.138	51.43	12.39	63.82	74	-10.18	peak
7236.104	30.12	12.39	42.51	54	-11.49	AVG
	1					

Remark:





EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
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
4874.074	51.72	10.4	62.12	74	-11.88	peak
4874.090	32.39	10.4	42.79	54	-11.21	AVG
7311.076	48.54	12.75	61.29	74	-12.71	peak
7311.030	27.28	12.75	40.03	54	-13.97	AVG
Remark:						
actor = Ante	enna Factor + C	Cable Loss –	Pre-amplifier.			

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VOHANA .	DC 5V from Adapter with AC 120V/60Hz
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
4874.148	49.23	10.4	59.63	74	-14.37	peak
4874.084	32.59	10.4	42.99	54	-11.01	AVG
7311.096	47.45	12.75	60.2	74	-13.8	peak
7311.100	28.62	12.75	41.37	54	-12.63	AVG
Remark:						





EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
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
4924.088	50.13	10.39	60.52	74	-13.48	peak
4924.113	35.15	10.39	45.54	54	-8.46	AVG
7386.171	43.82	12.68	56.5	74	-17.5	peak
7386.097	31.32	12.68	44	54	-10	AVG
emark:	 					ļ

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VOHANA .	DC 5V from Adapter with AC 120V/60Hz
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
4924.147	51.56	10.39	61.95	74	-12.05	peak
4924.122	35.69	10.39	46.08	54	-7.92	AVG
7386.133	42.32	12.68	55	74	-19	peak
7386.115	28.54	12.68	41.22	54	-12.78	AVG
Domork:						

Report No.: STS1412032F03



Model Name : EUT: **3G MOBILE PHONE** U901 20 ℃ Temperature: Relative Humidity: 48% DC 5V from Adapter with Pressure: 1010 hPa Test Voltage : AC 120V/60Hz Test Mode CH3(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
4844.066	47.55	10.5	58.05	74	-15.95	peak
4844.064	31.63	10.5	42.13	54	-11.87	AVG
7266.269	48.75	12.5	61.25	74	-12.75	peak
7266.280	31.23	12.5	43.73	54	-10.27	AVG
Remark:						

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

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VANIANA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
47.83	10.5	58.33	74	-15.67	peak
30.64	10.5	41.14	54	-12.86	AVG
48.54	12.5	61.04	74	-12.96	peak
29.41	12.5	41.91	54	-12.09	AVG
	(dBµV) 47.83 30.64 48.54	(dBµV) (dB) 47.83 10.5 30.64 10.5 48.54 12.5	(dBμV) (dB) (dBμV/m) 47.83 10.5 58.33 30.64 10.5 41.14 48.54 12.5 61.04	(dBμV) (dB) (dBμV/m) (dBμV/m) 47.83 10.5 58.33 74 30.64 10.5 41.14 54 48.54 12.5 61.04 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 47.83 10.5 58.33 74 -15.67 30.64 10.5 41.14 54 -12.86 48.54 12.5 61.04 74 -12.96

Remark:





EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIAST VAITARA	DC 5V from Adapter with AC 120V/60Hz
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
4874.219	48.95	10.4	59.35	74	-14.65	peak
4874.216	33.54	10.4	43.94	54	-10.06	AVG
7311.121	47.23	12.75	59.98	74	-14.02	peak
7311.078	32.54	12.75	45.29	54	-8.71	AVG

Remark:

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

·			
EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
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
4874.502	47.43	10.4	57.83	74	-16.17	peak
4874.507	34.56	10.4	44.96	54	-9.04	AVG
7311.568	46.71	12.75	59.46	74	-14.54	peak
7311.540	35.32	12.75	48.07	54	-5.93	AVG

Remark:

Report No.: STS1412032F03



EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Horizontal

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
49.29	10.29	59.58	74	-14.42	peak
35.02	10.29	45.31	54	-8.69	AVG
48.45	12.79	61.24	74	-12.76	peak
31.37	12.79	44.16	54	-9.84	AVG
	(dBµV) 49.29 35.02 48.45	(dBµV) (dB) 49.29 10.29 35.02 10.29 48.45 12.79	(dBμV) (dB) (dBμV/m) 49.29 10.29 59.58 35.02 10.29 45.31 48.45 12.79 61.24	(dBμV) (dB) (dBμV/m) (dBμV/m) 49.29 10.29 59.58 74 35.02 10.29 45.31 54 48.45 12.79 61.24 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 49.29 10.29 59.58 74 -14.42 35.02 10.29 45.31 54 -8.69 48.45 12.79 61.24 74 -12.76

EUT: 3G MOBILE PHONE Model Name: U901
Temperature: 20 °C Relative Humidity: 48%

Pressure: 1010 hPa Test Voltage : DC 5V from Adapter with AC 120V/60Hz

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 i ype
4904.069	51.34	10.29	61.63	74	-12.37	peak
4904.105	35.56	10.29	45.85	54	-8.15	AVG
7356.324	48.82	12.79	61.61	74	-12.39	peak
7356.329	32.31	12.79	45.1	54	-8.9	AVG
emark:						





3.2.6 TEST RESULTS (BAND EDGE)

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TIEST VANIANE .	DC 5V from Adapter with AC 120V/60Hz
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	80.71	-13	67.71	74	-6.29	peak
2399.900	61.63	-13	48.63	54	-5.54	AVG
2400.000	82.32	-12.99	69.33	74	-4.41	peak
2400.000	60.24	-12.99	47.25	54	-5.74	AVG
Remark:						
Factor = Ante	enna Factor + C	Cable Loss –	Pre-amplifier.			

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Hest vollage .	DC 5V from Adapter with AC 120V/60Hz
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	81.59	-13	68.59	74	-5.41	peak
2399.900	61.36	-13	48.36	54	-5.64	AVG
2400.000	77.45	-12.99	64.46	74	-9.54	peak
2400.000	59.43	-12.99	46.44	54	-7.56	AVG
Remark:						
Factor = Ante	enna Factor + C	able Loss – F	Pre-amplifier.			





EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
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	78.54	-12.78	65.76	74	-8.24	peak
2483.500	60.32	-12.78	47.54	54	-6.46	AVG
2483.600	79.56	-12.77	66.79	74	-7.21	peak
2483.600	60.54	-12.78	47.76	54	-6.24	AVG

Remark:

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

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VAHAAA	DC 5V from Adapter with AC 120V/60Hz
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	77.24	-12.78	64.46	74	-9.54	peak
2483.500	60.32	-12.78	47.54	54	-6.46	AVG
2483.600	76.54	-12.77	63.77	74	-10.23	peak
2483.600	59.45	-12.77	46.68	54	-7.32	AVG
Remark:			-			

Remark:

Report No.: STS1412032F03



EUT: **3G MOBILE PHONE** Model Name : U901 Temperature: 20 ℃ Relative Humidity: 48% DC 5V from Adapter with Test Voltage : Pressure: 1010 hPa AC 120V/60Hz Test Mode Horizontal CH1(802.11g Mode) Polarization:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
2399.900	76.48	-13	63.48	74	-10.52	peak
2399.900	59.92	-13	46.92	54	-7.08	AVG
2400.000	78.41	-12.99	65.42	74	-8.58	peak
2400.000	58.47	-12.99	45.48	54	-8.52	AVG
Remark:						
actor = Ant	enna Factor + C	Cable Loss –	Pre-amplifier			

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VOHANA .	DC 5V from Adapter with AC 120V/60Hz
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	79.23	-13	66.23	74	-7.77	peak	
2399.900	60.21	-13	47.21	54	-6.79	AVG	
2400.000	78.94	-12.99	65.95	74	-8.05	peak	
2400.000	62.56	-12.99	49.57	54	-4.43	AVG	
Remark:	•		•		•	•	
Factor = Ant	enna Factor + C	Cable Loss –	Pre-amplifier.				

Report No.: STS1412032F03



EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
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	77.56	-12.78	64.78	74	-9.22	peak
2483.500	63.23	-12.78	50.45	54	-3.55	AVG
2483.600	76.46	-12.77	63.69	74	-10.31	peak
2483.600	61.64	-12.77	48.87	54	-5.13	AVG
Remark:						

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

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HEST VOHAGE .	DC 5V from Adapter with AC 120V/60Hz
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)	
2483.500	76.54	-12.78	63.76	74	-10.24	peak
2483.500	60.43	-12.78	47.65	54	-6.35	AVG
2483.600	75.93	-12.77	63.16	74	-10.84	peak
2483.600	61.34	-12.77	48.57	54	-5.43	AVG

Remark:

Report No.: STS1412032F03



Model Name : EUT: **3G MOBILE PHONE** U901 Temperature: 20 ℃ Relative Humidity: 48% DC 5V from Adapter with Pressure: 1010 hPa Test Voltage : AC 120V/60Hz 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	76.45	-13	63.45	74	-10.55	peak
2399.900	58.26	-13	45.26	54	-8.74	AVG
2400.000	78.22	-12.99	65.23	74	-8.77	peak
2400.000	58.54	-12.99	45.55	54	-8.45	AVG
emark:						

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

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	TIEST VOUACE .	DC 5V from Adapter with AC 120V/60Hz
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	77.82	-13	64.82	74	-9.18	peak
2399.900	58.34	-13	45.34	54	-8.66	AVG
2400.000	76.41	-12.99	63.42	74	-10.58	peak
2400.000	59.45	-12.99	46.46	54	-7.54	AVG

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





EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
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	77.35	-12.78	64.57	74	-9.43	peak
2483.500	56.75	-12.78	43.97	54	-10.03	AVG
2483.600	75.31	-12.77	62.54	74	-11.46	peak
2483.600	57.35	-12.77	44.58	54	-9.42	AVG
Remark:						

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

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Hest vollage .	DC 5V from Adapter with AC 120V/60Hz
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	74.19	-12.78	60.45	74	-13.55	peak
2483.500	59.54	-12.78	46.84	54	-7.16	AVG
2483.600	73.65	-12.78	60.45	74	-13.55	peak
2483.600	59.54	-12.78	46.84	54	-7.16	AVG





EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
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	77.52	-13	64.52	74	-9.48	peak	
2399.900	58.21	-13	45.21	54	-8.79	AVG	
2400.000	77.47	-12.99	64.48	74	-9.52	peak	
2400.000	59.54	-12.99	46.55	54	-7.45	AVG	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

A. Control of the con			
EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HEST VOUAGE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
80.57	-13	67.57	74	-6.43	peak
55.54	-13	42.54	54	-11.46	AVG
78.34	-12.99	65.35	74	-8.65	peak
55.39	-12.99	42.4	54	-11.6	AVG
	(dBµV) 80.57 55.54 78.34	(dBµV) (dB) 80.57 -13 55.54 -13 78.34 -12.99	(dBμV) (dB) (dBμV/m) 80.57 -13 67.57 55.54 -13 42.54 78.34 -12.99 65.35	(dBμV) (dB) (dBμV/m) (dBμV/m) 80.57 -13 67.57 74 55.54 -13 42.54 54 78.34 -12.99 65.35 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 80.57 -13 67.57 74 -6.43 55.54 -13 42.54 54 -11.46 78.34 -12.99 65.35 74 -8.65





EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
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	75.32	-12.78	62.54	74	-11.46	peak
2483.500	59.49	-12.78	46.71	54	-7.29	AVG
2483.600	76.58	-12.77	63.81	74	-10.19	peak
2483.600	61.14	-12.77	48.37	54	-5.63	AVG
Remark:						
	enna Factor + Ca	ahla I oss _	Dre-amplifier			

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	HASI VOHANA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Vertical

		Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
77.25	-12.78	64.47	74	-9.53	peak
60.36	-12.78	47.58	54	-6.42	AVG
78.26	-12.78	65.48	74	-8.52	peak
59.38	-12.78	46.6	54	-7.4	AVG
	60.36 78.26 59.38	60.36 -12.78 78.26 -12.78 59.38 -12.78	60.36 -12.78 47.58 78.26 -12.78 65.48	60.36 -12.78 47.58 54 78.26 -12.78 65.48 74 59.38 -12.78 46.6 54	60.36 -12.78 47.58 54 -6.42 78.26 -12.78 65.48 74 -8.52 59.38 -12.78 46.6 54 -7.4



Report No.: STS1412032F03

4. CONDUCTED SPURIOUS EMISSIONS

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

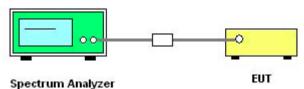
Spectrum Parameter	Setting	
Detector	Peak	
Start/Stop Frequency	30 MHz to 10th carrier harmonic	
RB / VB (emission in restricted band)	100 KHz/300 KHz	
Trace-Mode:	Max hold	

For Band edge

Spectrum Parameter	Setting		
Detector	Peak		
Start/Stop Frequency	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.

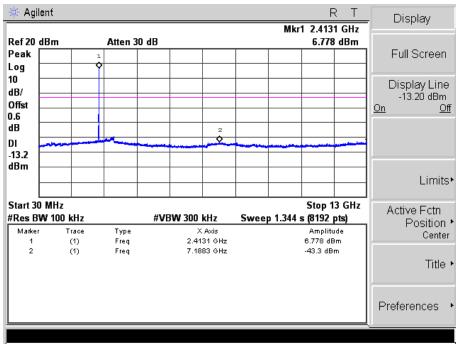
4.5 EUT OPERATION CONDITIONS

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

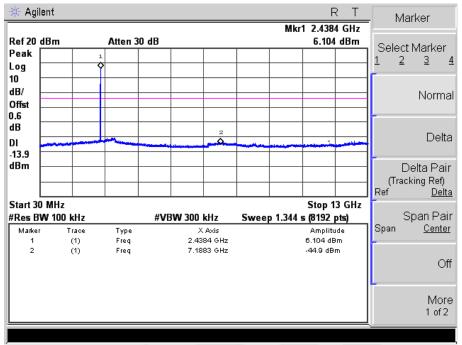
EUT:	3G MOBILE PHONE	Model Name :	U901		
Temperature :	25 ℃	Relative Humidity:	60%		
Pressure :	1015 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz		
Test Mode :	de : TX b Mode /CH01, CH06, CH11				



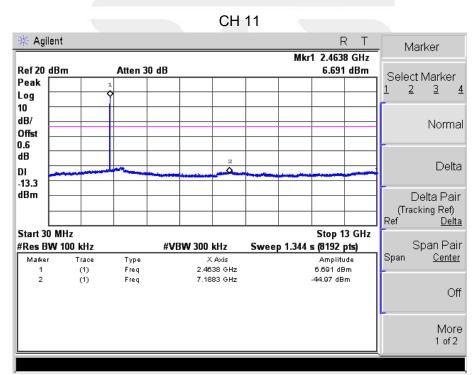
13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.







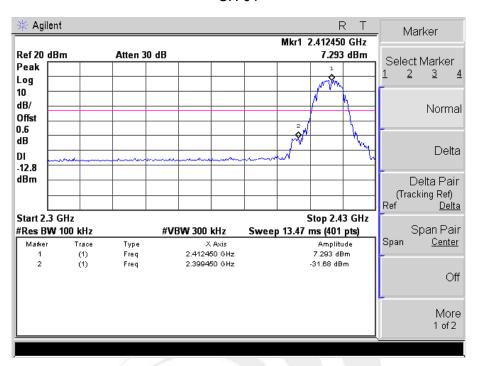
13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.

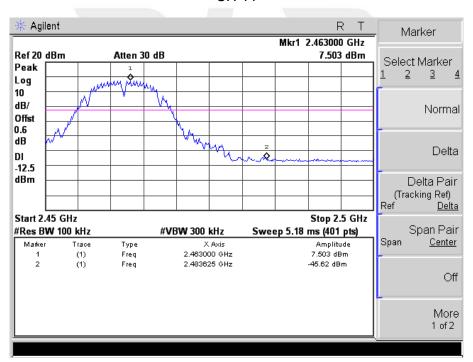


13 g - 25 g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.



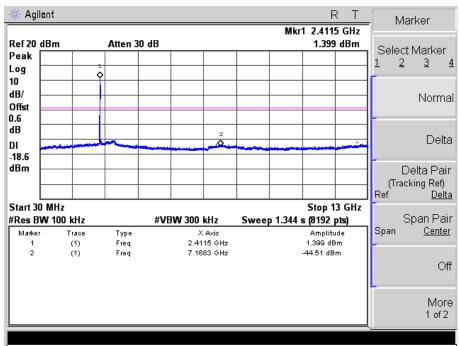
CH 01







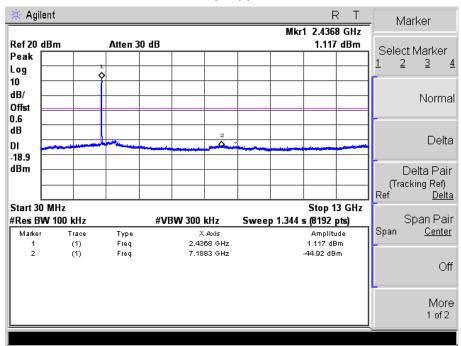
EUT:	3G MOBILE PHONE	Model Name :	U901	
Temperature:	25 ℃	Relative Humidity:	60%	
Pressure :	1015 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz	
Test Mode :	TX g Mode /CH01, CH06, CH11			



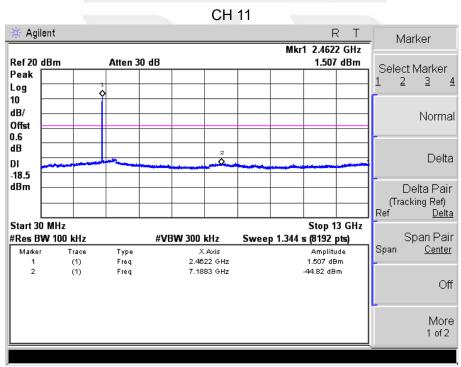
13~g-25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.







13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.

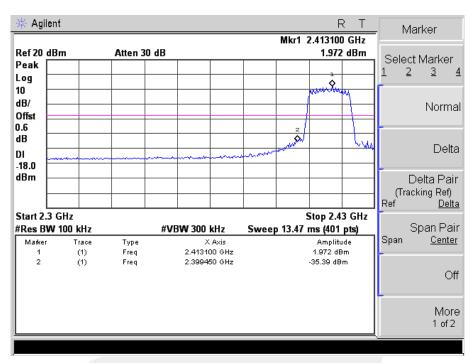


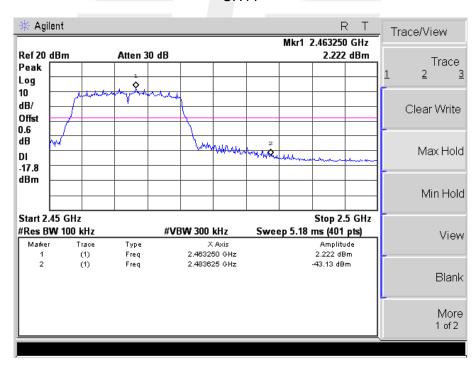
13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.



Band edge

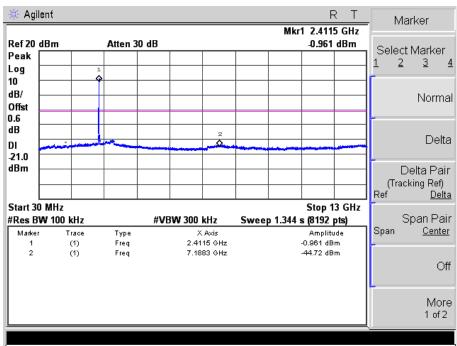
CH 01







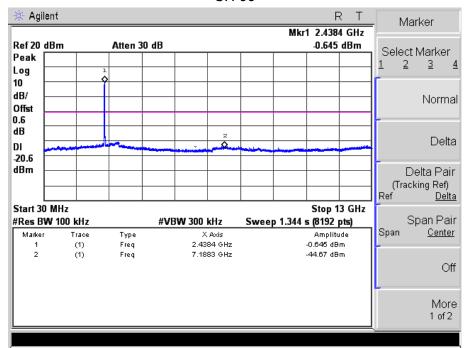
EUT:	3G MOBILE PHONE	Model Name :	U901	
Temperature :	25 ℃	Relative Humidity:	60%	
Pressure :	1015 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz	
Test Mode : TX n Mode(20M) /CH01, CH06, CH11				



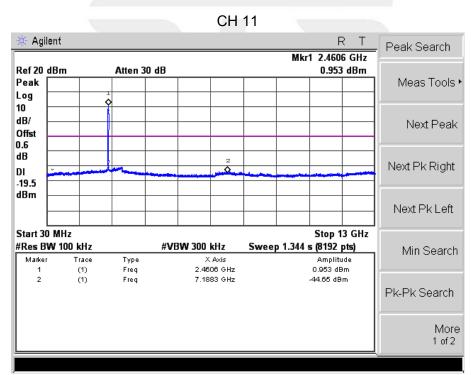
13~g-25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.







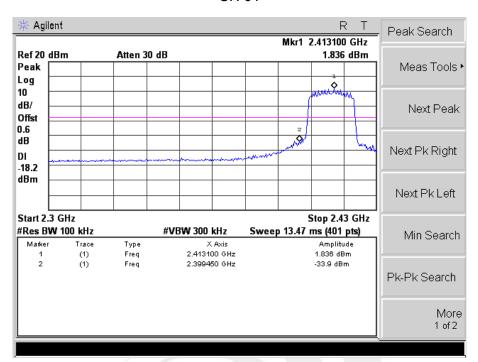
13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.

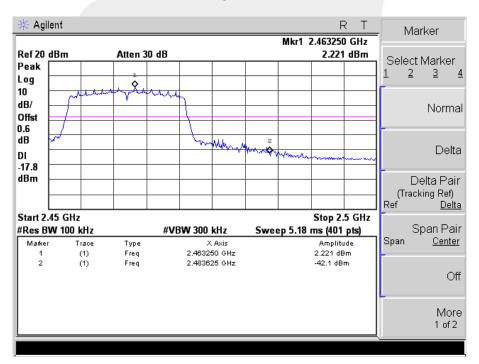


13 g - 25 g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.



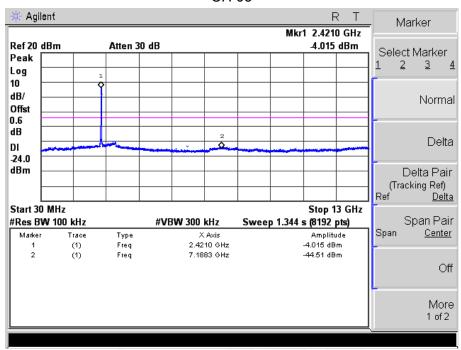
CH 01





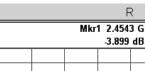


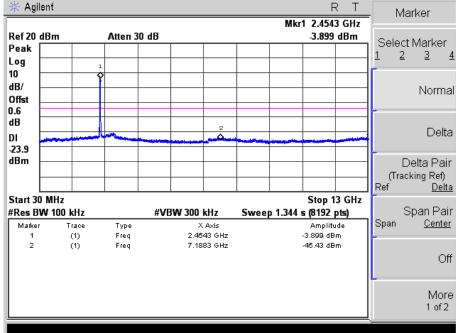
EUT:	3G MOBILE PHONE	Model Name :	U901	
Temperature :	25 ℃	Relative Humidity:	60%	
Pressure :	1015 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz	
Test Mode : TX n Mode(40M) /CH03, CH06, CH09				



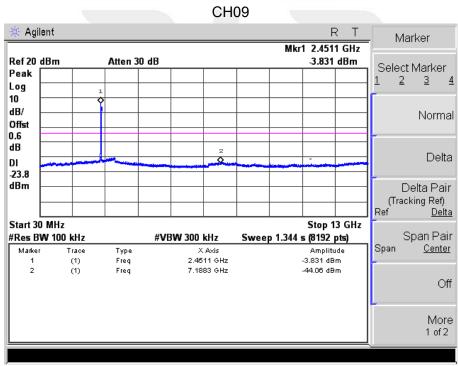
13~g-25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.







13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.

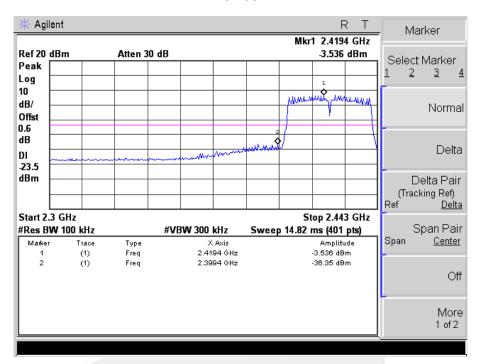


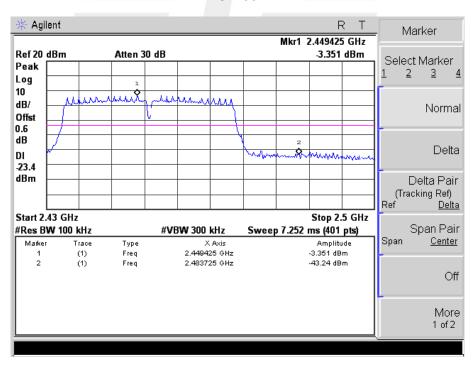
13 g – 25g spurious emissions amplitude decay of the more than 20 db lower than the allowable values do not need the data.



Band edge

CH03







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 ≥ 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

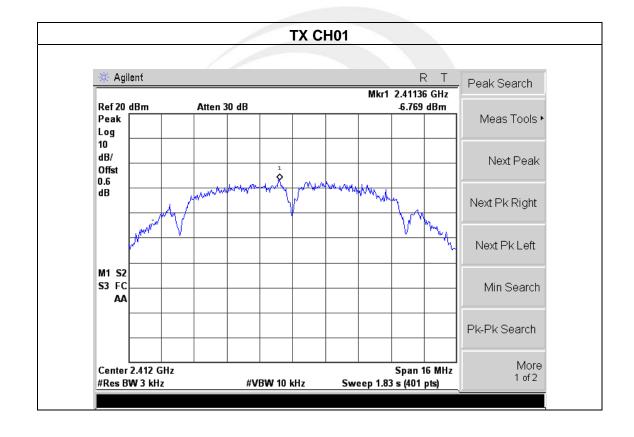
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



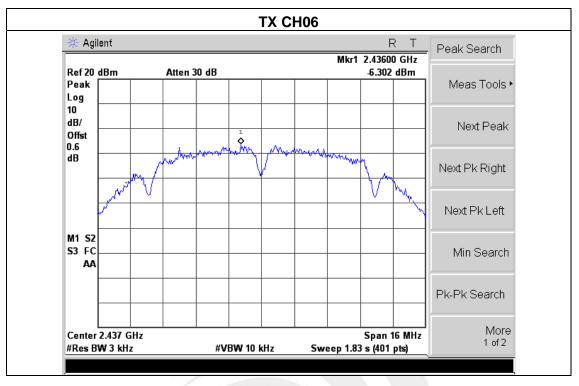
5.6 TEST RESULTS

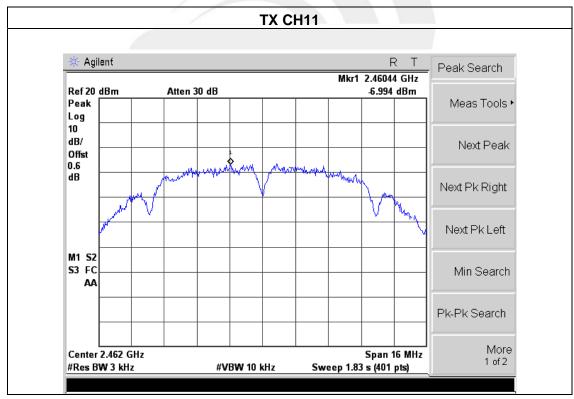
EUT:	3G MOBILE PHONE	Model Name :	U901	
Temperature:	25 ℃	Relative Humidity:	60%	
Pressure :	1015 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz	
Test Mode : TX b Mode /CH01, CH06, CH11				

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-6.769	8	PASS
2437 MHz	-6.302	8	PASS
2462 MHz	-6.994	8	PASS







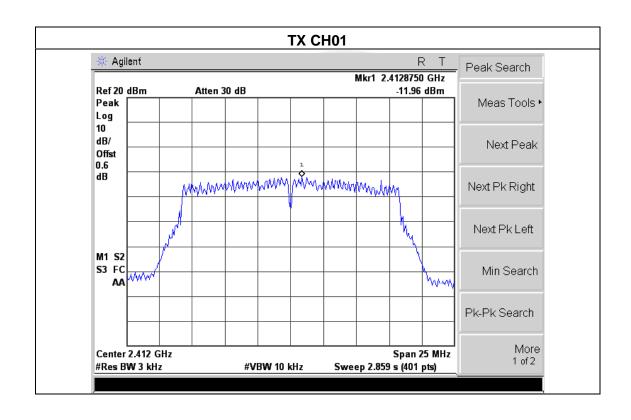




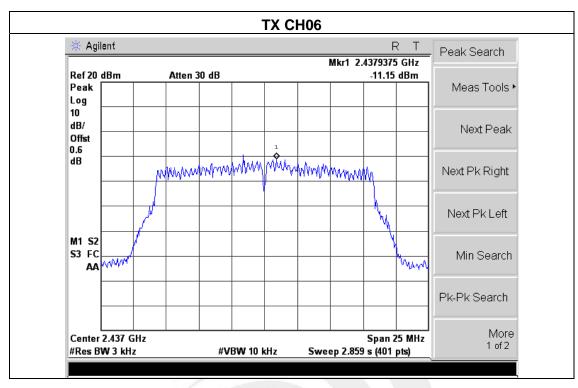


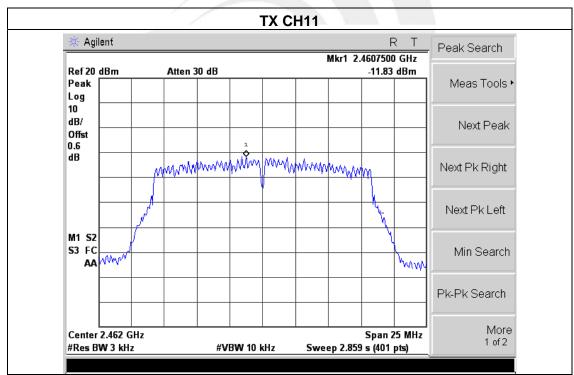
EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	TASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode : TX g Mode /CH01, CH06, CH11			

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-11.96	8	PASS
2437 MHz	-11.15	8	PASS
2462 MHz	-11.83	8	PASS







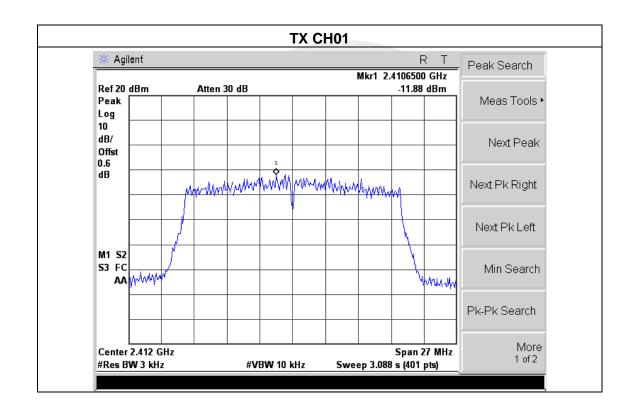




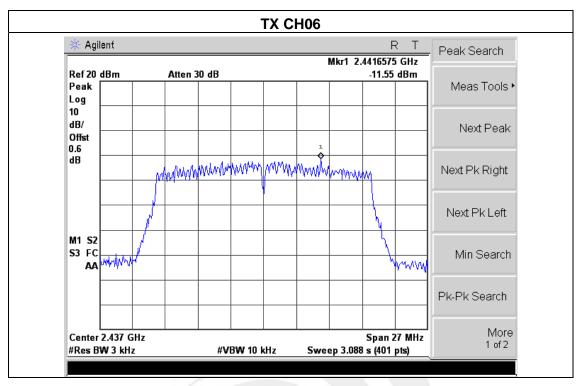


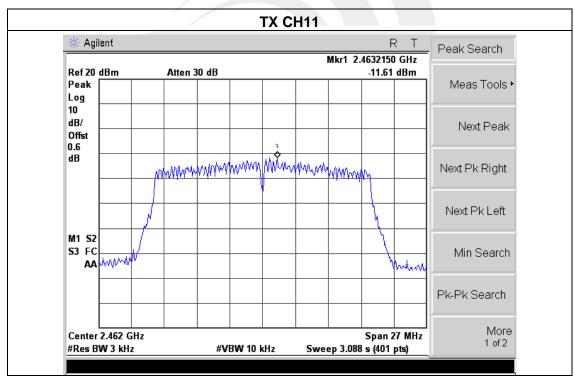
EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1015 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode : TX n Mode(20M) /CH01, CH06, CH11			

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-11.88	8	PASS
2437 MHz	-11.55	8	PASS
2462 MHz	-11.61	8	PASS







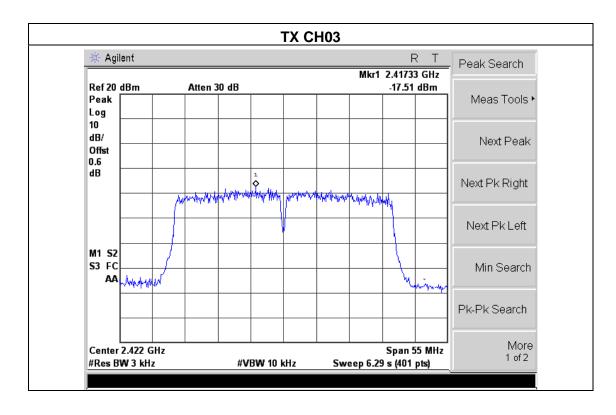




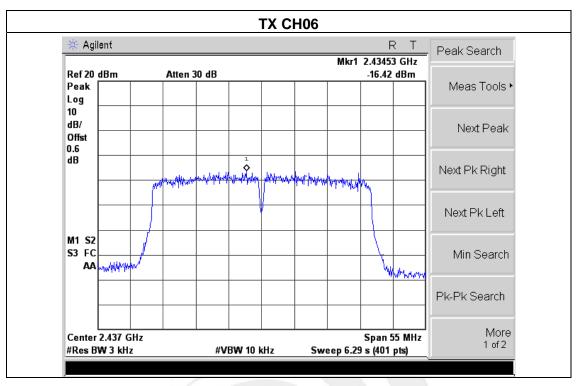


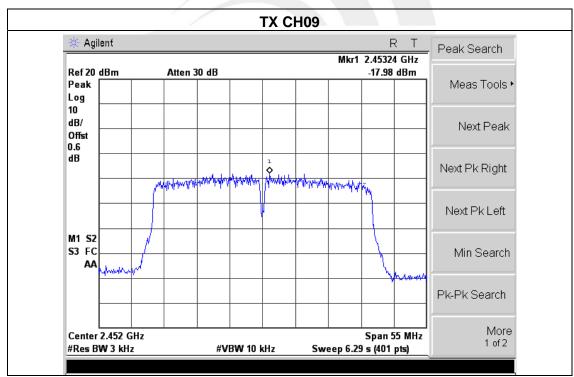
EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	11115 NPA TIEST VOITAGE . I		DC 5V from Adapter with AC 120V/60Hz
Test Mode : TX n Mode(40M) /CH03, CH06, CH09			

Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-17.51	8	PASS
2437 MHz	-16.42	8	PASS
2452 MHz	-17.98	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

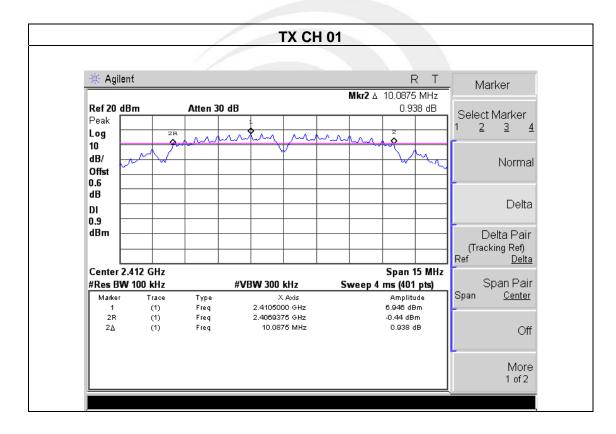
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



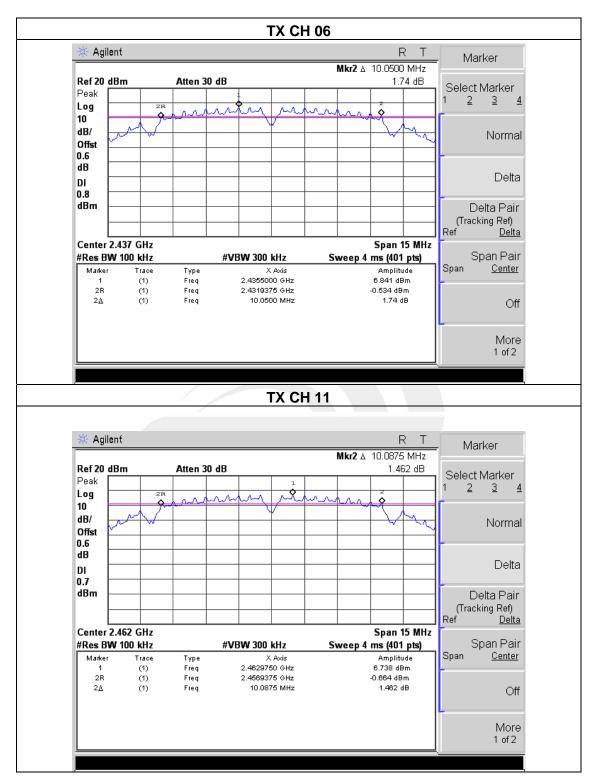
6.6 TEST RESULTS

EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode : TX b Mode /CH01, CH06, CH11			

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	10.0875	>=500KHz	PASS
2437 MHz	10.0500	>=500KHz	PASS
2462 MHz	10.0875	>=500KHz	PASS





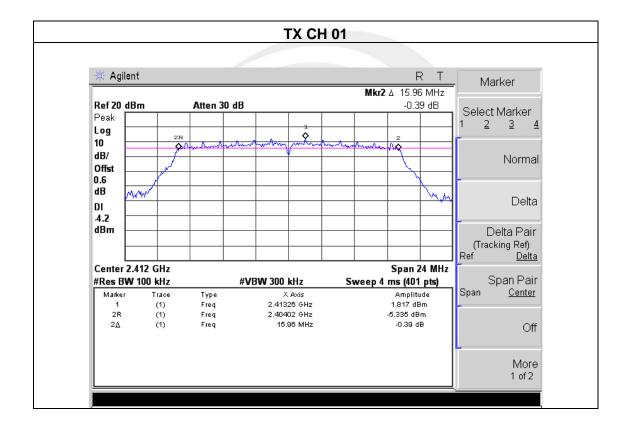




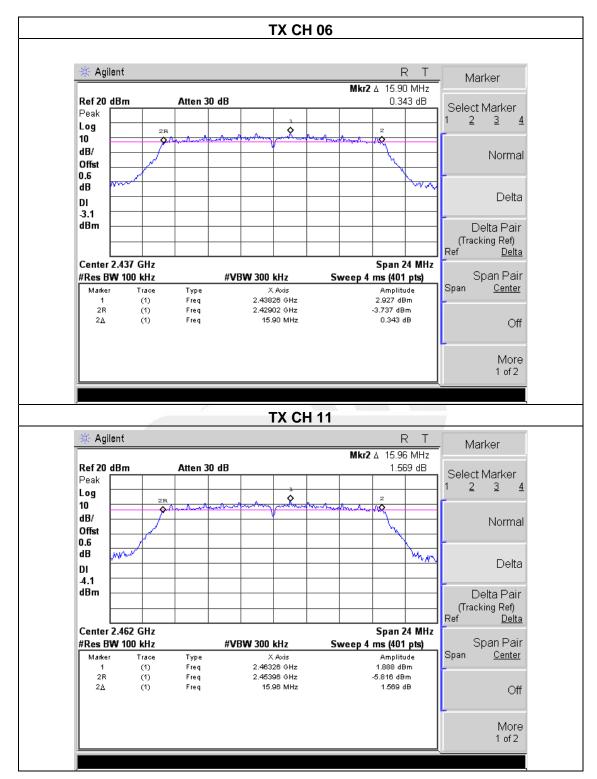


EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	TASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test Mode : TX g Mode /CH01, CH06, CH11			

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	15.9600	>=500KHz	PASS
2437 MHz	15.9000	>=500KHz	PASS
2462 MHz	15.9600	>=500KHz	PASS





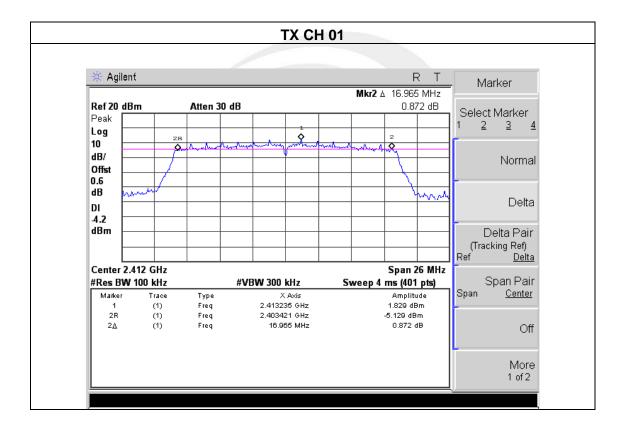




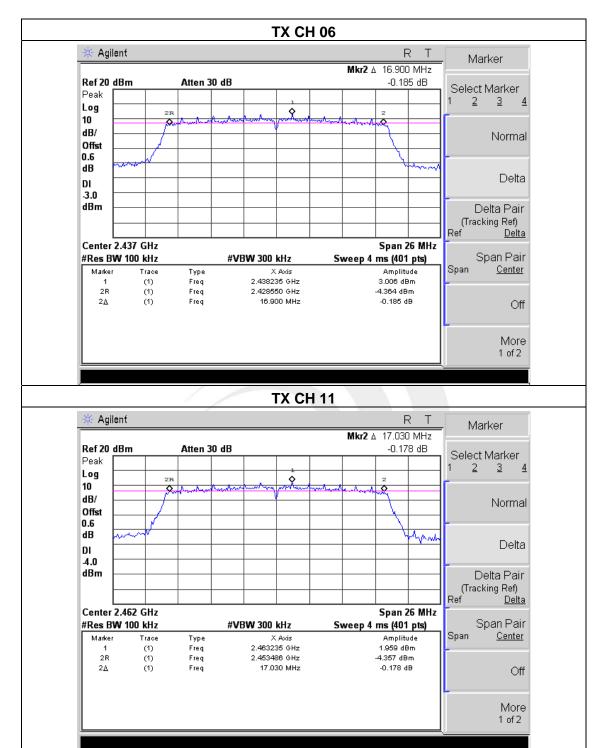


EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode : TX n Mode(20M) /CH01, CH06, CH11			

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.9650	>=500KHz	PASS
2437 MHz	16.9000	>=500KHz	PASS
2462 MHz	17.0300	>=500KHz	PASS





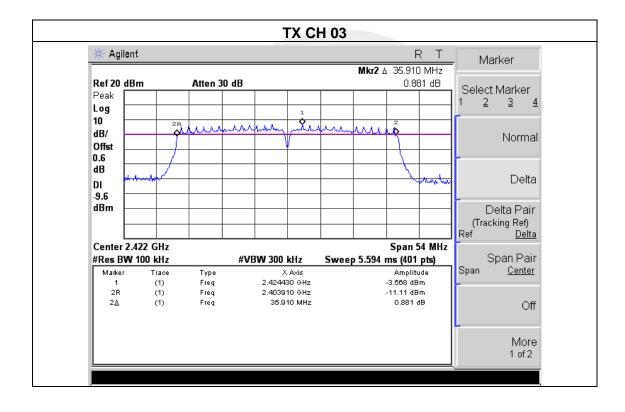




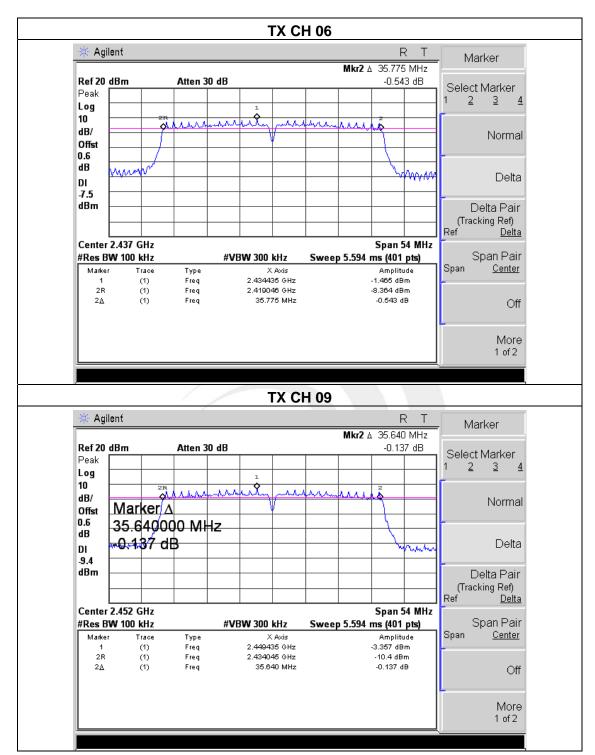


EUT:	3G MOBILE PHONE	Model Name :	U901
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	LIEST VOITAGE .	DC 5V from Adapter with AC 120V/60Hz
Test Mode : TX n Mode(40M) /CH03, CH06, CH09			

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2422 MHz	35.9100	>=500KHz	PASS
2437 MHz	35.7750	>=500KHz	PASS
2452 MHz	35.6400	>=500KHz	PASS









7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section Test Item Limit Frequency Range (MHz) Result				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

EUT	Power Meter
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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 :	U901
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	HASI VAHAAA .	DC 5V from Adapter with AC 120V/60Hz
Test 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	14.97	30	
CH06	2437	14.59	30	
CH11	2462	15.13	30	

	TX 802.11g Mode			
Test	Frequency	Peak Conducted Output Power	LIMIT	
Channe	(MHz)	(dBm)	dBm	
CH01	2412	10.47	30	
CH06	2437	11.04	30	
CH11	2462	10.74	30	

	TX 802.11n20 Mode			
Test	Frequency	Peak Conducted Output Power	LIMIT	
Channe	(MHz)	(dBm)	dBm	
CH01	2412	10.42	30	
CH06	2437	11.00	30	
CH11	2462	10.95	30	

TX 802.11n40 Mode			
Test	Frequency	Peak Conducted Output Power	LIMIT
Channe	(MHz)	(dBm)	dBm
CH03	2422	7.94	30
CH06	2437	7.73	30
CH09	2452	7.88	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

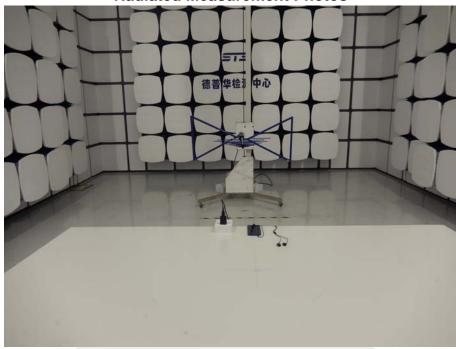
The EUT antenna is PIFA Antenna. It comply with the standard requirement.

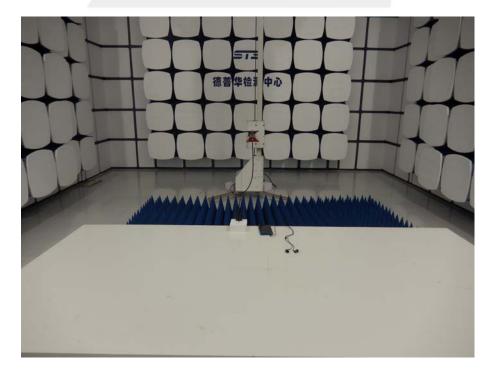




APPENDIX - PHOTOS OF TEST SETUP









Conducted Measurement Photos

