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FCC TEST REPORT

Report No: STS1411061F03

Issued for

PARKTEL FZE

WAREHOUSE NO:FF01,ROUND ABOUT NO:05,JEBEL ALI FREEZONE
DUBAI U.A.E

Product Name:	3G MOBILE PHONE
Brand Name:	unnecto TM
Model No.:	U611
Series Model:	N/A
FCC ID:	OLEU611
Test Standard:	FCC Part 15

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TEST RESULT CERTIFICATION

Applicant's name.....: PARKTEL FZE
Address: WAREHOUSE NO:FF01,ROUND ABOUT NO:05,JEBEL ALI
FREEZONE DUBAI U.A.E
Manufacture's Name: SHENZHEN UNI-ONE ELECTRONIC CO.,LTD
Address: 5/F,BLDG A2,KEXING SCIENCE PARK,KEYUAN
RD.,HI-TECH PARK SHENZHEN,P.R.CHINA

Product description

Product name: 3G MOBILE PHONE
Model and/or type reference ..: U611
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: 25 Nov. 2014 ~02 Dec. 2014

Date of Issue.....: 03 Dec. 2014

Test Result: **Pass**

Testing Engineer :

(Tony Liu)

Technical Manager :

(Vita Li)

Authorized Signatory :

(Bovey Yang)





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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 $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	3G MOBILE PHONE	
Trade Name	unnecto™	
Model Name	U611	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a 3G MOBILE PHONE	
	Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz 802.11n 40: 2422~2452MHz
	Modulation Type:	CCK/OFDM/DBPSK/DAPSK
	Bit Rate of Transmitter	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
	Number Of Channel	802.11b/g/n20: 11CH 802.11n 40: 7CH
	Antenna Designation:	Please see Note 3.
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 0.15A Output:5.0V,700mA	
Battery	Rated Voltage: 3.8V Charge Limit: 4.35V capacity :1500mAh	
Hardware version number	UH03_MB_V0.1	
Software versioning number	UNI_C421B_0.7_141023	
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)
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	08	2447				

3. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	PIFA Antenna	N/A	0	N/A





2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly 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

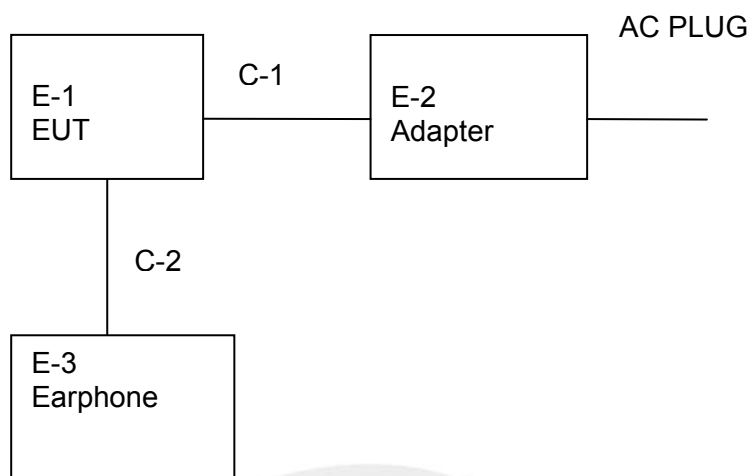
For Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

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 ™	U611	N/A	EUT
E-2	Adapter	N/A	A600	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 『Length』 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.

FREQUENCY (MHz)	Class B (dBuV)		Standard
	Quasi-peak	Average	
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 receiver of R&S/ESCI Settings

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



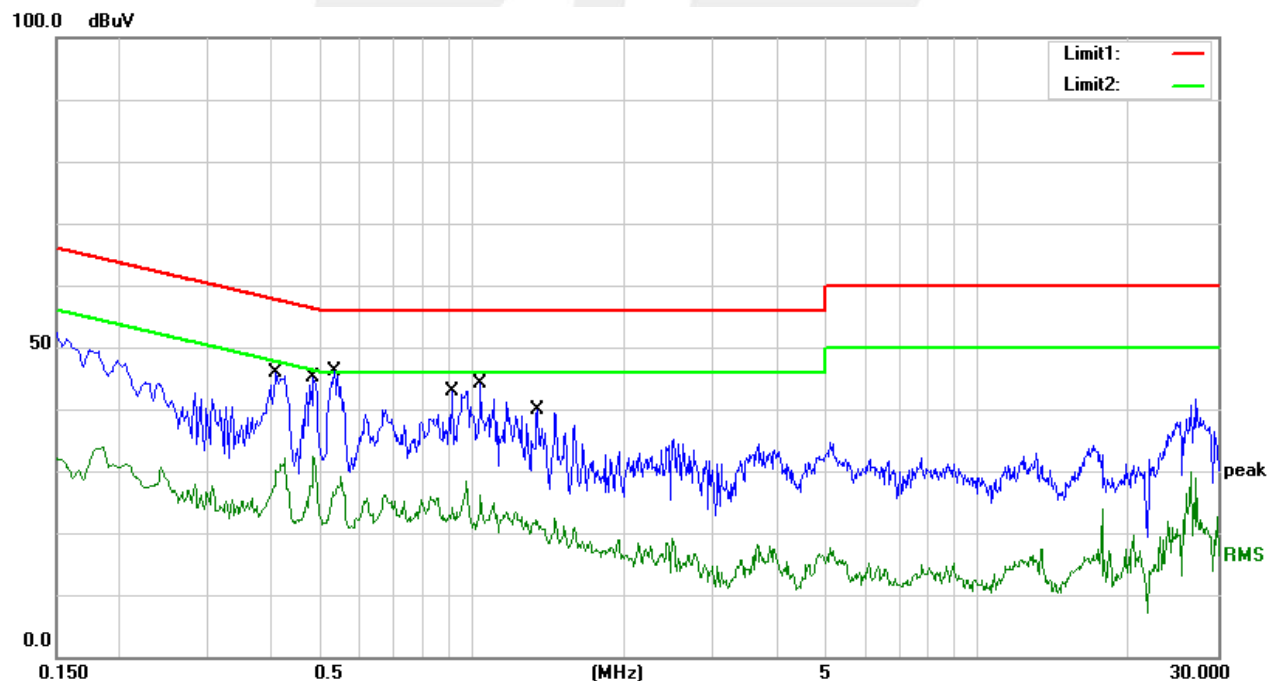
3.1.2 TEST RESULTS

EUT :	3G MOBILE PHONE	Model Name. :	U611
Temperature :	23 °C	Relative Humidity :	50%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Link Mode

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
0.406	28.34	10.41	38.75	57.73	-18.98	QP
0.406	18.56	10.41	28.97	47.73	-18.76	AVG
0.4853	33.97	10.4	44.37	56.25	-11.88	QP
0.4853	18.63	10.4	29.03	46.25	-17.22	AVG
0.5326	30.43	10.4	40.83	56	-15.17	QP
0.5326	16.56	10.4	26.96	46	-19.04	AVG
0.9146	23.27	10.41	33.68	56	-22.32	QP
0.9146	11.25	10.41	21.66	46	-24.34	AVG
1.0376	28.44	10.41	38.85	56	-17.15	QP
1.0376	15.11	10.41	25.52	46	-20.48	AVG
1.3405	21.38	10.41	31.79	56	-24.21	QP
1.3405	11.84	10.41	22.25	46	-23.75	AVG

Remark:

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



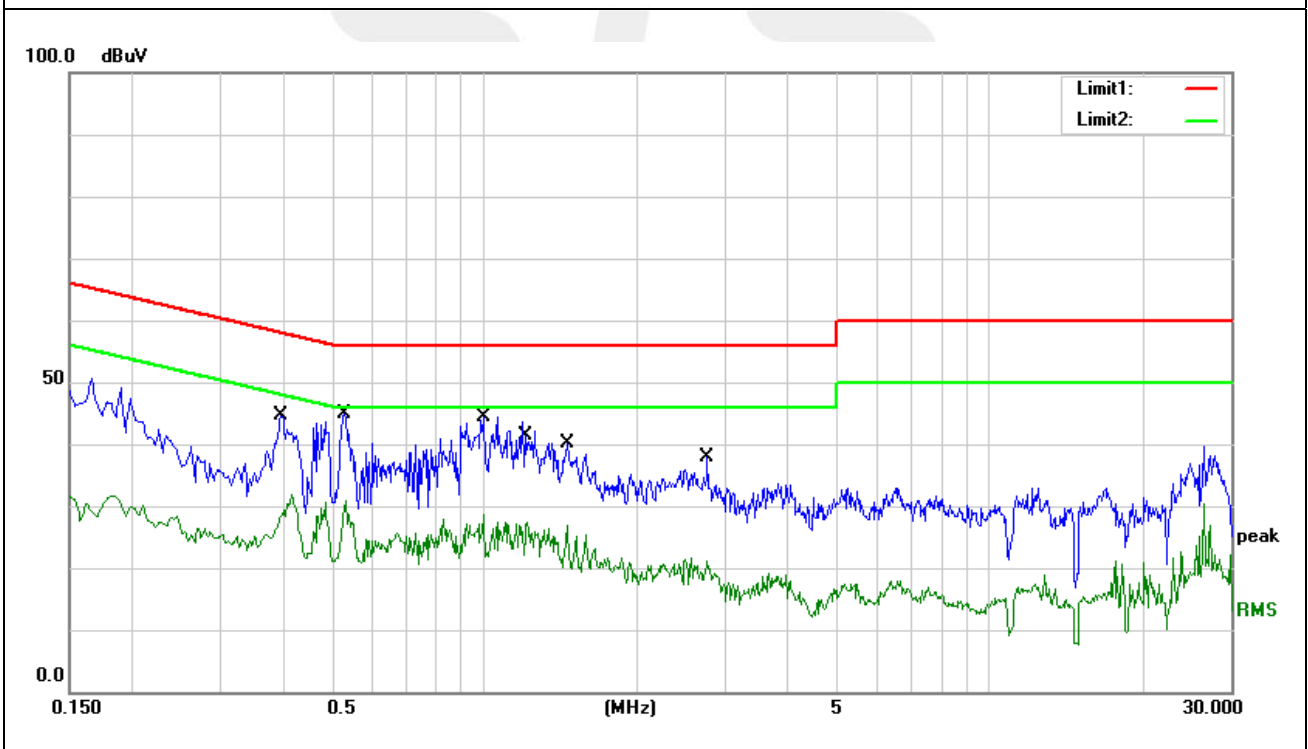


EUT :	3G MOBILE PHONE	Model Name. :	U611
Temperature :	23 °C	Relative Humidity :	50%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Link Mode

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
0.3918	27.41	10.42	37.83	58.03	-20.2	QP
0.3918	16.49	10.42	26.91	48.03	-21.12	AVG
0.5237	30.33	10.41	40.74	56	-15.26	QP
0.5237	18.53	10.41	28.94	46	-17.06	AVG
0.993	30.06	10.45	40.51	56	-15.49	QP
0.993	13.51	10.45	23.96	46	-22.04	AVG
1.2073	23.83	10.45	34.28	56	-21.72	QP
1.2073	14.6	10.45	25.05	46	-20.95	AVG
1.449	25.86	10.45	36.31	56	-19.69	QP
1.449	14.95	10.45	25.4	46	-20.6	AVG
2.7533	18.94	10.46	29.4	56	-26.6	QP
2.7533	6.22	10.46	16.68	46	-29.32	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. 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 (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (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)	
	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 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

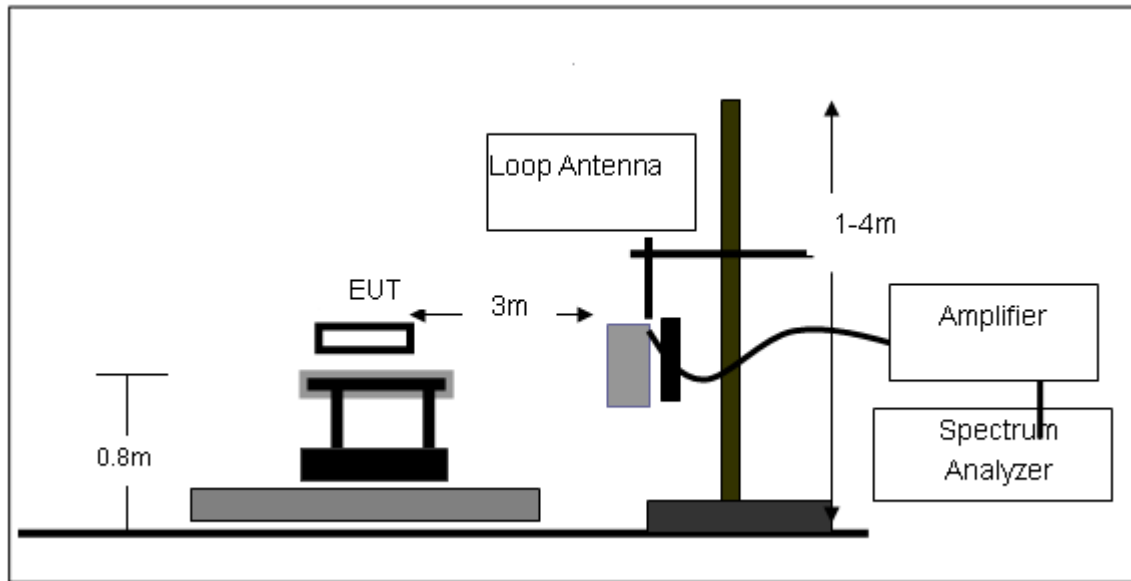
- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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.
- 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.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

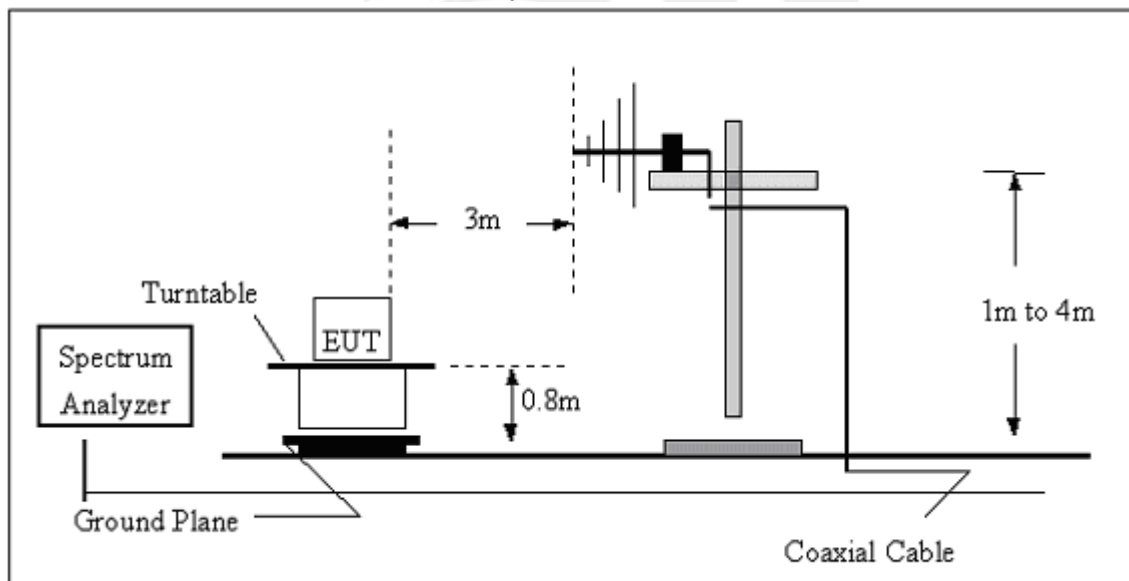
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 TEST SETUP

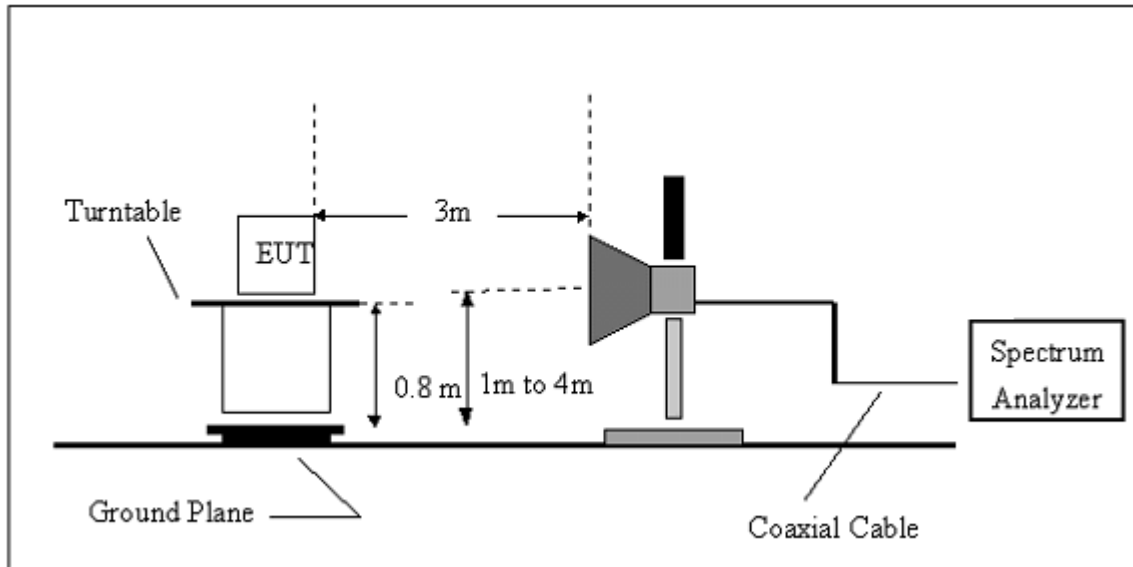
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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. :	U611
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test 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 = $40 \log (\text{specific distance/test distance})(\text{dB})$;

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



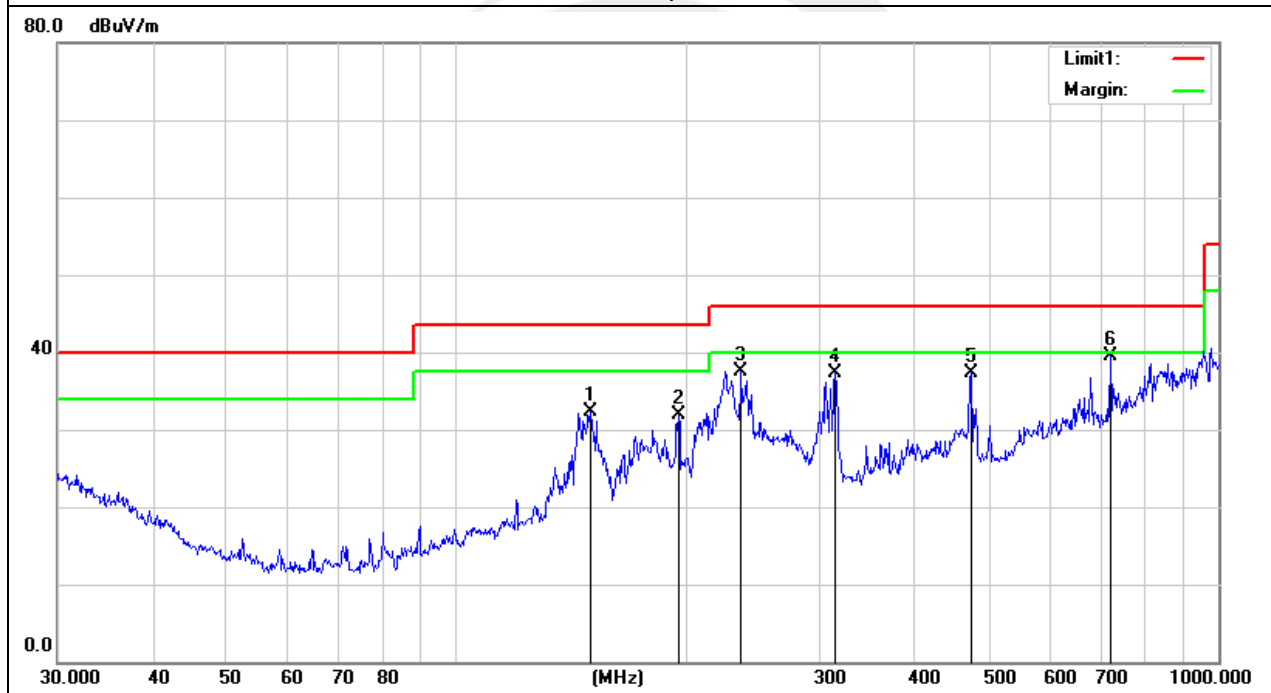
30MHz - 1000MHz

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	Link mode	Polarization :	Horizontal

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
150.0108	20.44	12.33	32.77	43.5	-10.73	QP
195.822	22.13	9.31	31.44	43.5	-12.06	QP
236.6447	25.88	11.74	37.62	46	-8.38	QP
314.3765	21.42	15.82	37.24	46	-8.76	QP
473.8347	17.19	20.26	37.45	46	-8.55	QP
721.726	14.55	25.09	39.64	46	-6.36	QP

Remark:

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



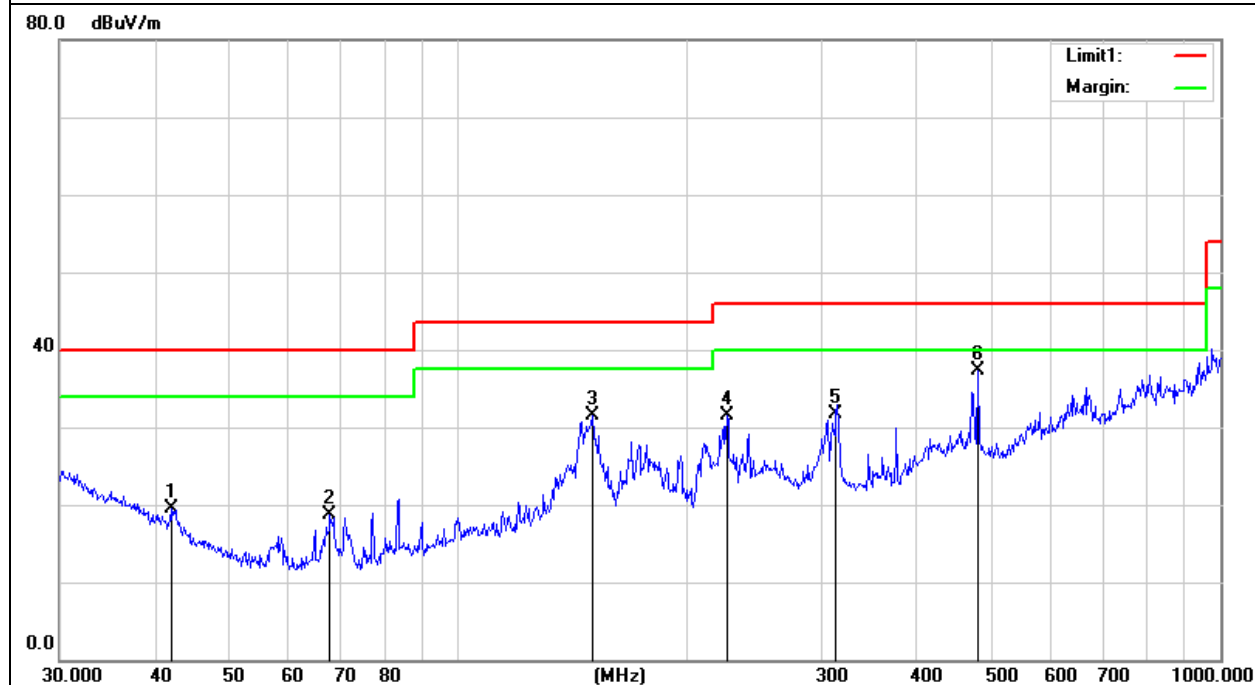


EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	Link mode	Polarization :	Vertical

Freq. (MHz)	Reading (dBuV)	Factor (dBuV)	Measurement (dBuV)	Limit (dBuV)	Over (dB)	Detector
42.0066	6.54	12.67	19.21	40	-20.79	QP
67.913	12.59	6.13	18.72	40	-21.28	QP
150.0108	19.11	12.33	31.44	43.5	-12.06	QP
225.308	20.38	11.05	31.43	46	-14.57	QP
313.276	15.74	15.76	31.5	46	-14.5	QP

Remark:

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





Above 1000MHz

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.066	45.23	10.44	55.67	74	-18.33	peak
4824.131	36.44	10.44	46.88	54	-7.12	AVG
7236.047	41.13	12.39	53.52	74	-20.48	peak
7236.057	27.17	12.39	39.56	54	-14.44	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.058	45.34	10.44	55.78	74	-18.22	peak
4824.129	36.54	10.44	46.98	54	-7.02	AVG
7236.050	41.21	12.39	53.6	74	-20.4	peak
7236.050	27.24	12.39	39.63	54	-14.37	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.077	48.43	10.39	58.82	74	-15.18	peak
4924.100	34.43	10.39	44.82	54	-9.18	AVG
7386.148	48.22	12.68	60.9	74	-13.1	peak
7386.129	30.83	12.68	43.51	54	-10.49	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.118	49.88	10.39	60.27	74	-13.73	peak
4924.124	33.46	10.39	43.85	54	-10.15	AVG
7386.070	48.21	12.68	60.89	74	-13.11	peak
7386.060	30.63	12.68	43.31	54	-10.69	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.061	49.55	10.39	59.94	74	-14.06	peak
4924.083	33.43	10.39	43.82	54	-10.18	AVG
7386.084	48.47	12.68	61.15	74	-12.85	peak
7386.114	31.82	12.68	44.5	54	-9.5	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.051	47.43	10.39	57.82	74	-16.18	peak
4924.048	34.43	10.39	44.82	54	-9.18	AVG
7386.119	48.53	12.68	61.21	74	-12.79	peak
7386.138	30.67	12.68	43.35	54	-10.65	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.100	45.21	10.44	55.65	74	-18.35	peak
4824.053	36.91	10.44	47.35	54	-6.65	AVG
7236.063	41.35	12.39	53.74	74	-20.26	peak
7236.112	27.21	12.39	39.6	54	-14.4	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.042	45.21	10.44	55.65	74	-18.35	peak
4824.066	36.63	10.44	47.07	54	-6.93	AVG
7236.054	42.04	12.39	54.43	74	-19.57	peak
7236.052	26.21	12.39	38.6	54	-15.4	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.097	47.21	10.4	57.61	74	-16.39	peak
4874.075	26.88	10.4	37.28	54	-16.72	AVG
7311.143	44.75	12.75	57.5	74	-16.5	peak
7311.094	23.78	12.75	36.53	54	-17.47	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.107	47.19	10.4	57.59	74	-16.41	peak
4874.094	35.45	10.4	45.85	54	-8.15	AVG
7311.072	48.63	12.75	61.38	74	-12.62	peak
7311.072	33.22	12.75	45.97	54	-8.03	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11 (802.11g Mode)/2462	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.076	49.14	10.39	59.53	74	-14.47	peak
4924.088	33.43	10.39	43.82	54	-10.18	AVG
7386.082	48.82	12.68	61.5	74	-12.5	peak
7386.119	30.85	12.68	43.53	54	-10.47	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11(802.11g Mode)/2462	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.095	46.69	10.39	57.08	74	-16.92	peak
4924.123	34.43	10.39	44.82	54	-9.18	AVG
7386.031	46.47	12.68	59.15	74	-14.85	peak
7386.041	33.77	12.68	46.45	54	-7.55	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.057	46.22	10.44	56.66	74	-17.34	peak
4824.042	35.51	10.44	45.95	54	-8.05	AVG
7236.089	42.55	12.39	54.94	74	-19.06	peak
7236.037	28.21	12.39	40.6	54	-13.4	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.044704	46.42	10.44	56.86	74	-17.14	peak
4824.057197	37.36	10.44	47.8	54	-6.2	AVG
7236.12904	51.19	12.39	63.58	74	-10.42	peak
7236.144342	31.25	12.39	43.64	54	-10.36	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.060	50.32	10.4	60.72	74	-13.28	peak
4874.124	32.53	10.4	42.93	54	-11.07	AVG
7311.103	48.65	12.75	61.4	74	-12.6	peak
7311.104	26.43	12.75	39.18	54	-14.82	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.073	47.23	10.4	57.63	74	-16.37	peak
4874.143	31.59	10.4	41.99	54	-12.01	AVG
7311.102	47.53	12.75	60.28	74	-13.72	peak
7311.119	27.62	12.75	40.37	54	-13.63	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.134351	44.56	10.39	54.95	74	-19.05	peak
4924.132041	35.15	10.39	45.54	54	-8.46	AVG
7386.124877	43.82	12.68	56.5	74	-17.5	peak
7386.142676	31.32	12.68	44	54	-10	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.050544	53.56	10.39	63.95	74	-10.05	peak
4924.132852	35.69	10.39	46.08	54	-7.92	AVG
7386.109602	42.38	12.68	55.06	74	-18.94	peak
7386.109227	28.25	12.68	40.93	54	-13.07	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4844.108	47.44	10.5	57.94	74	-16.06	peak
4844.073	34.63	10.5	45.13	54	-8.87	AVG
7266.304	48.75	12.5	61.25	74	-12.75	peak
7266.292	33.23	12.5	45.73	54	-8.27	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4844.283106	47.66	10.5	58.16	74	-15.84	peak
4844.323243	30.68	10.5	41.18	54	-12.82	AVG
7266.178458	48.85	12.5	61.35	74	-12.65	peak
7266.187695	29.28	12.5	41.78	54	-12.22	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.218591	48.92	10.4	59.32	74	-14.68	peak
4874.235371	33.55	10.4	43.95	54	-10.05	AVG
7311.100762	47.21	12.75	59.96	74	-14.04	peak
7311.110237	32.58	12.75	45.33	54	-8.67	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.484	47.65	10.4	58.05	74	-15.95	peak
4874.494	34.56	10.4	44.96	54	-9.04	AVG
7311.557	46.07	12.75	58.82	74	-15.18	peak
7311.533	35.32	12.75	48.07	54	-5.93	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
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 :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4904.289	48.23	10.29	58.52	74	-15.48	peak
4904.255	36.89	10.29	47.18	54	-6.82	AVG
7356.157	48.14	12.79	60.93	74	-13.07	peak
7356.167	31.72	12.79	44.51	54	-9.49	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	3G MOBILE PHONE	Model Name :	U611
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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4904.115	51.34	10.29	61.63	74	-12.37	peak
4904.075	35.56	10.29	45.85	54	-8.15	AVG
7356.358	47.54	12.79	60.33	74	-13.67	peak
7356.384	33.21	12.79	46	54	-8	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



3.2.6 TEST RESULTS (BAND EDGE)

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH1(802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.9	79.25	-13	66.25	74	-7.75	peak
2399.9	62.45	-13	49.45	54	-5.54	AVG
2400	82.46	-12.99	69.47	74	-4.41	peak
2400	61.27	-12.99	48.28	54	-5.74	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH1(802.11b Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.9	82.43	-13	69.43	74	-4.57	peak
2399.9	61.79	-13	48.79	54	-5.21	AVG
2400	76.45	-12.99	63.46	74	-10.54	peak
2400	57.43	-12.99	44.44	54	-9.56	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH11(802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.5	78.54	-12.78	65.76	74	-8.24	peak
2483.5	60.32	-12.78	47.54	54	-6.46	AVG
2483.6	79.56	-12.77	66.79	74	-7.21	peak
2483.6	60.54	-12.78	47.76	54	-6.24	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH11(802.11b Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.5	77.54	-12.78	64.76	74	-9.24	peak
2483.5	60.32	-12.78	47.54	54	-6.46	AVG
2483.6	78.54	-12.77	65.77	74	-8.23	peak
2483.6	59.45	-12.77	46.68	54	-7.32	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH1(802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.9	76.21	-13	63.21	74	-10.79	peak
2399.9	59.43	-13	46.43	54	-7.57	AVG
2400	78.19	-12.99	65.2	74	-8.8	peak
2400	58.47	-12.99	45.48	54	-8.52	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH1(802.11gMode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.9	77.23	-13	64.23	74	-9.77	peak
2399.9	60.21	-13	47.21	54	-6.79	AVG
2400	78.94	-12.99	65.95	74	-8.05	peak
2400	62.24	-12.99	49.25	54	-4.75	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH11(802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.5	77.56	-12.78	64.78	74	-9.22	peak
2483.5	63.23	-12.78	50.45	54	-3.55	AVG
2483.6	76.46	-12.77	63.69	74	-10.31	peak
2483.6	61.64	-12.77	48.87	54	-5.13	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH11(802.11g Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.5	76.54	-12.78	63.76	74	-10.24	peak
2483.5	60.43	-12.78	47.65	54	-6.35	AVG
2483.6	75.93	-12.77	63.16	74	-10.84	peak
2483.6	61.34	-12.77	48.57	54	-5.43	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.9	75.45	-13	62.45	74	-11.55	peak
2399.9	56.26	-13	43.26	54	-10.74	AVG
2400	74.22	-12.99	61.23	74	-12.77	peak
2400	56.54	-12.99	43.55	54	-10.45	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH1(802.11n Mode)/20M	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.9	77.32	-13	64.32	74	-9.68	peak
2399.9	58.34	-13	45.34	54	-8.66	AVG
2400	76.35	-12.99	63.36	74	-10.64	peak
2400	59.45	-12.99	46.46	54	-7.54	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.5	75.43	-12.78	62.65	74	-11.35	peak
2483.5	56.89	-12.78	44.11	54	-9.89	AVG
2483.6	73.26	-12.77	60.49	74	-13.51	peak
2483.6	57.35	-12.77	44.58	54	-9.42	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.5	62.19	-12.78	60.45	74	-13.55	peak
2483.5	54.54	-12.78	46.84	54	-7.16	AVG
2483.6	70.62	-12.78	60.45	74	-13.55	peak
2483.6	59.54	-12.78	46.84	54	-7.16	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH3(802.11n Mode)/40M	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.9	75.23	-13	62.23	74	-11.77	peak
2399.9	58.21	-13	45.21	54	-8.79	AVG
2400	77.34	-12.99	64.35	74	-9.65	peak
2400	54.54	-12.99	41.55	54	-12.45	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V FROM ADAPTER WITH AC 120V/60HZ
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.9	81.62	-13	68.62	74	-5.38	peak
2399.9	55.54	-13	42.54	54	-11.46	AVG
2400	72.34	-12.99	59.35	74	-14.65	peak
2400	53.46	-12.99	40.47	54	-13.53	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U611
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 :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.5	77.32	-12.78	64.54	74	-9.46	peak
2483.5	56.14	-12.78	43.36	54	-10.64	AVG
2483.6	77.23	-12.77	64.46	74	-9.54	peak
2483.6	60.14	-12.77	47.37	54	-6.63	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	3G MOBILE PHONE	Model Name :	U611
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 (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.5	77.58	-12.78	64.8	74	-9.2	peak
2483.5	60.24	-12.78	47.46	54	-6.54	AVG
2483.6	78.26	-12.78	65.48	74	-8.52	peak
2483.6	59.38	-12.78	46.6	54	-7.4	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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

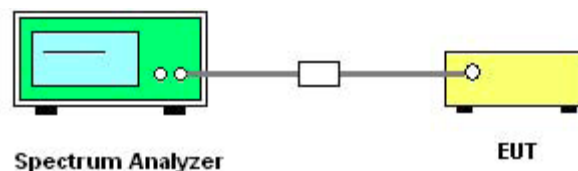
For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 to 2430 MHz 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

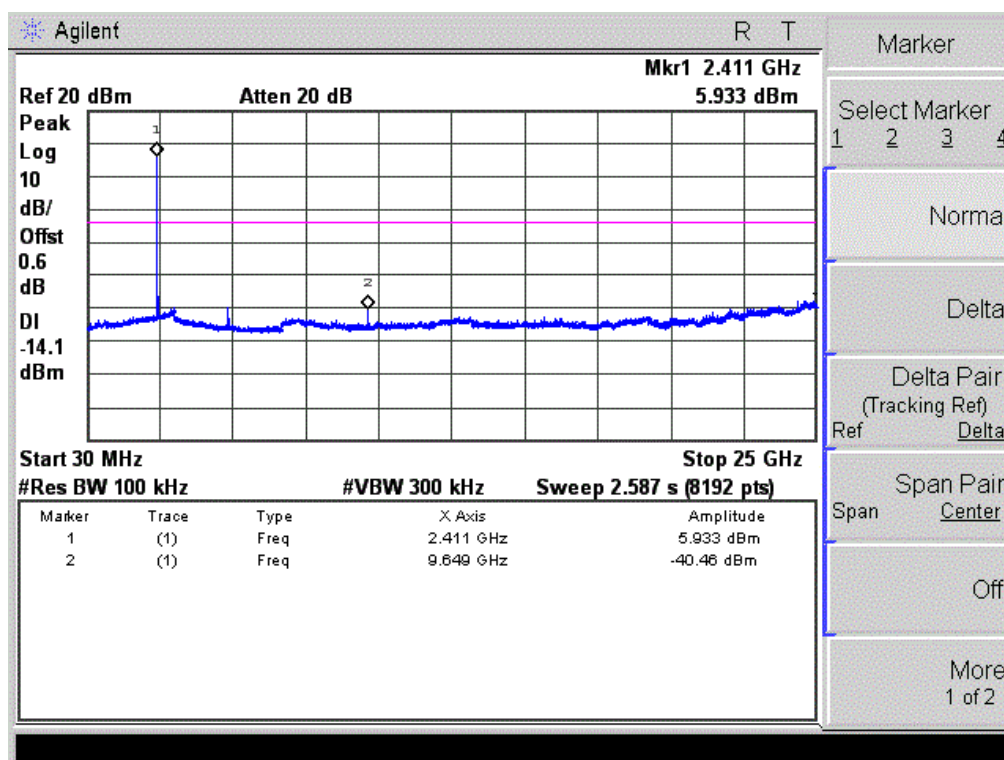
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



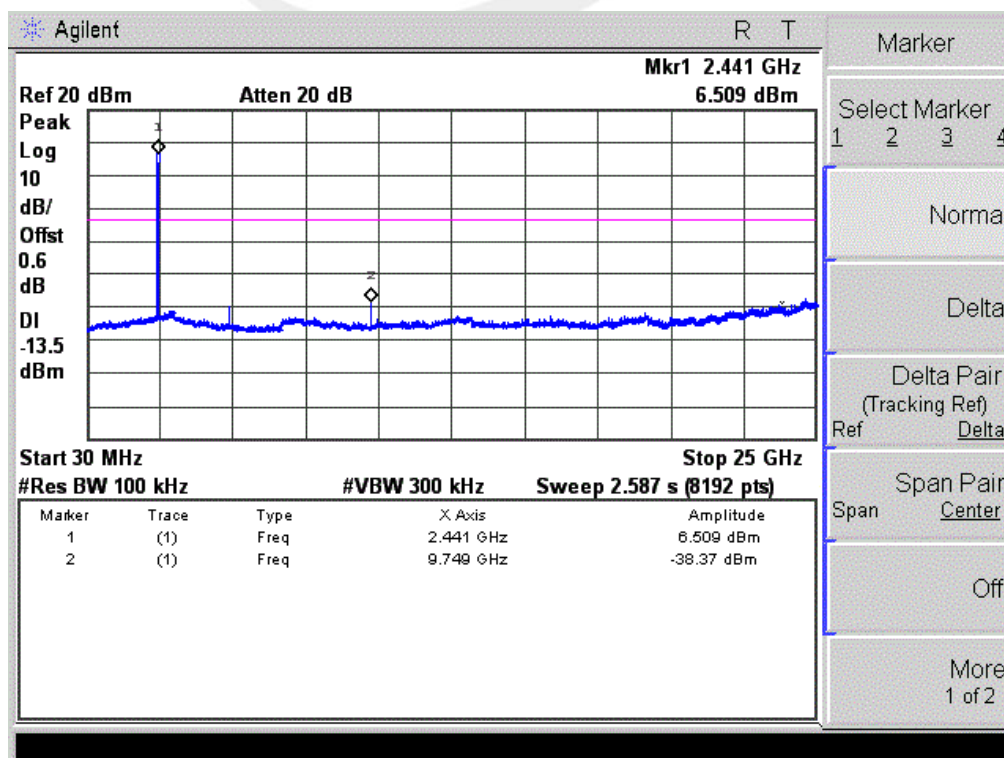
4.6 TEST RESULTS

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

CH 01

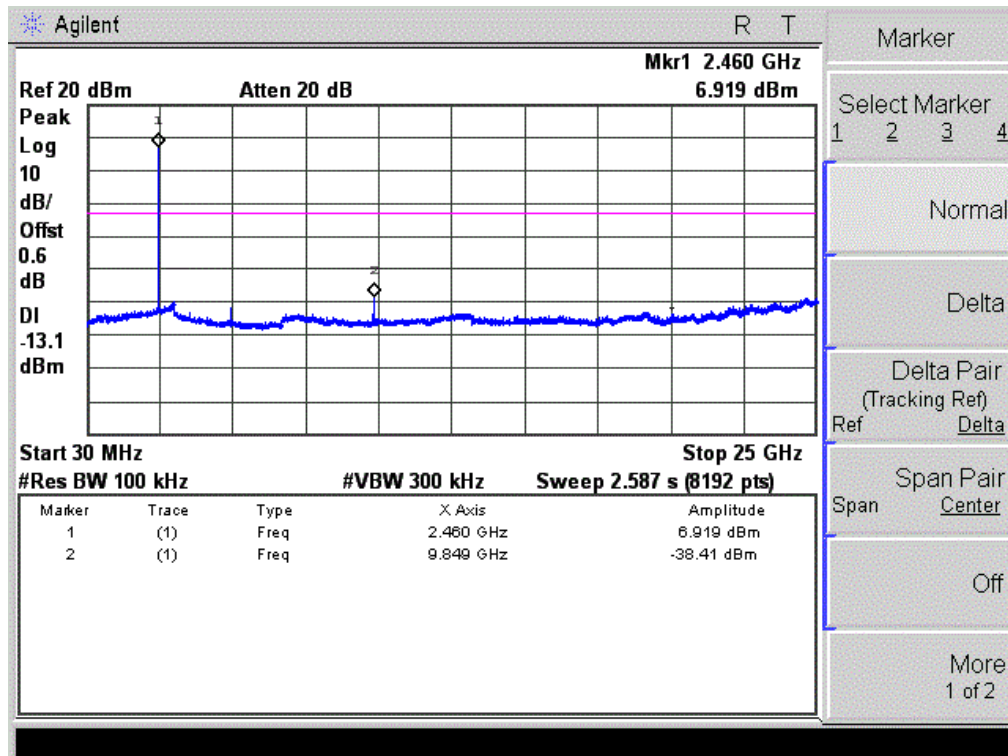


CH 06





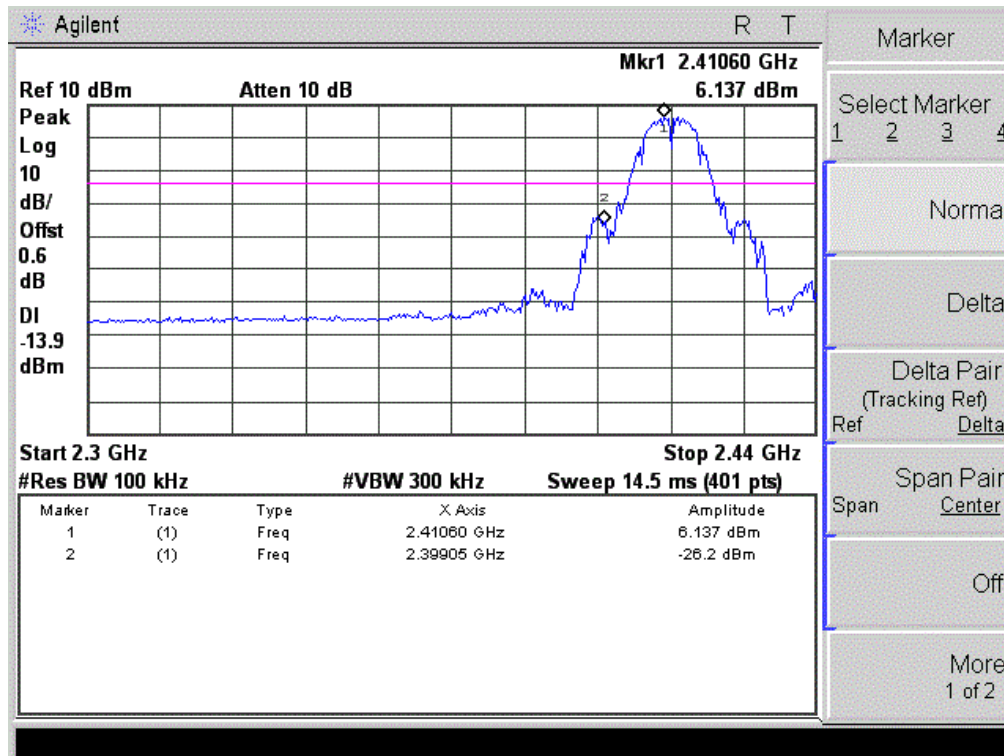
CH 11



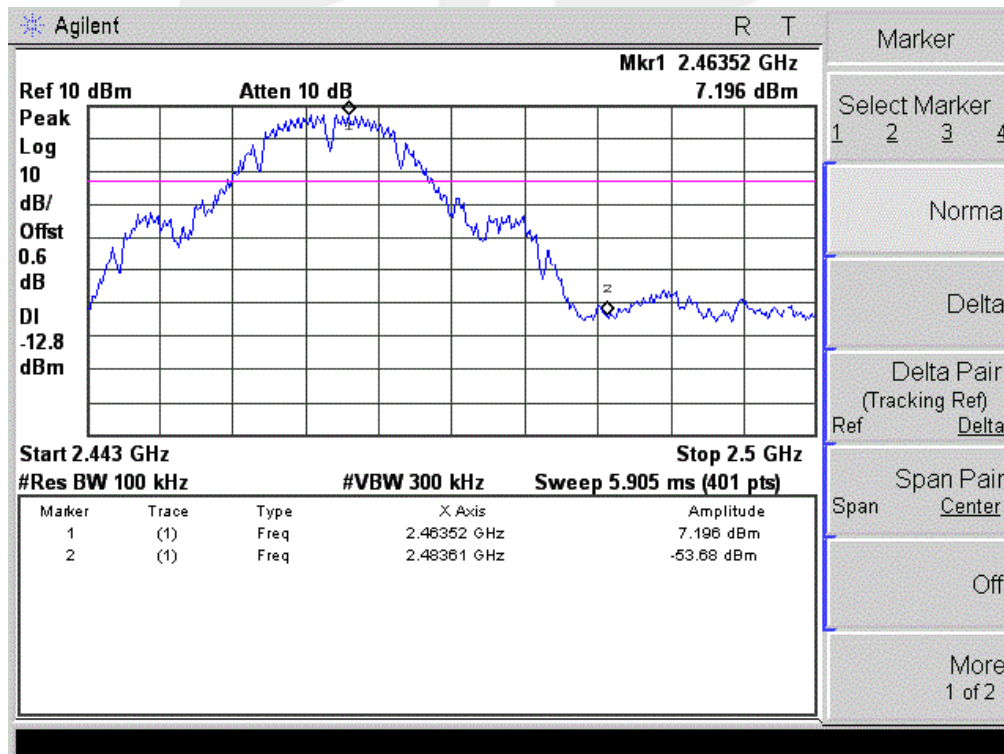


Band edge

CH 01



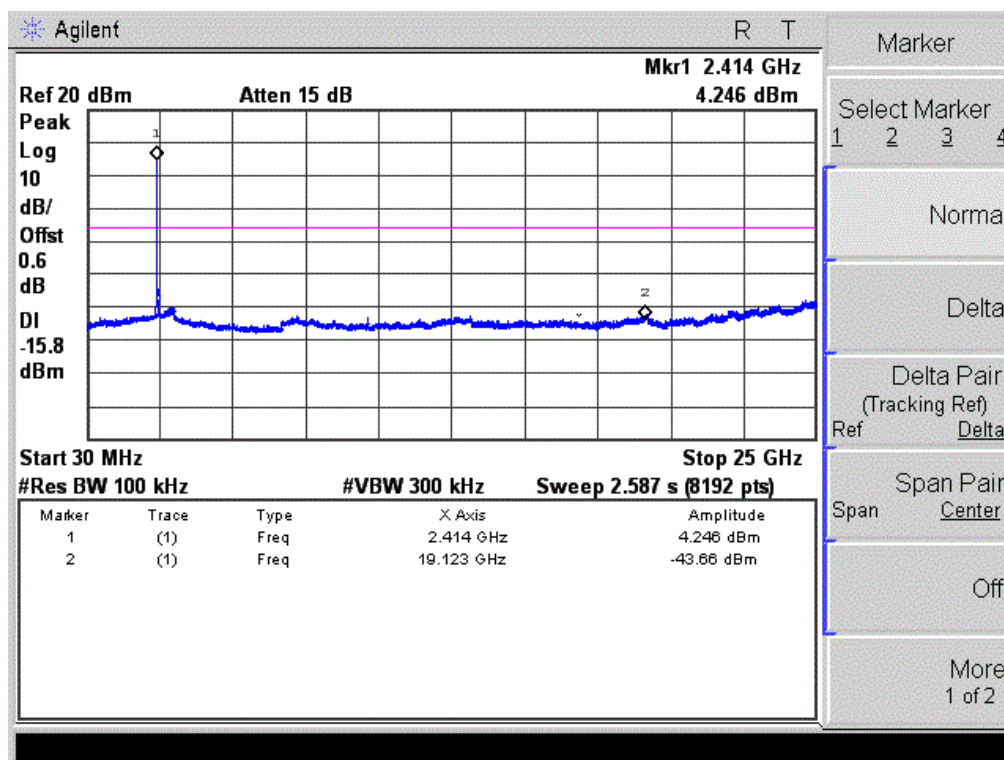
CH 11



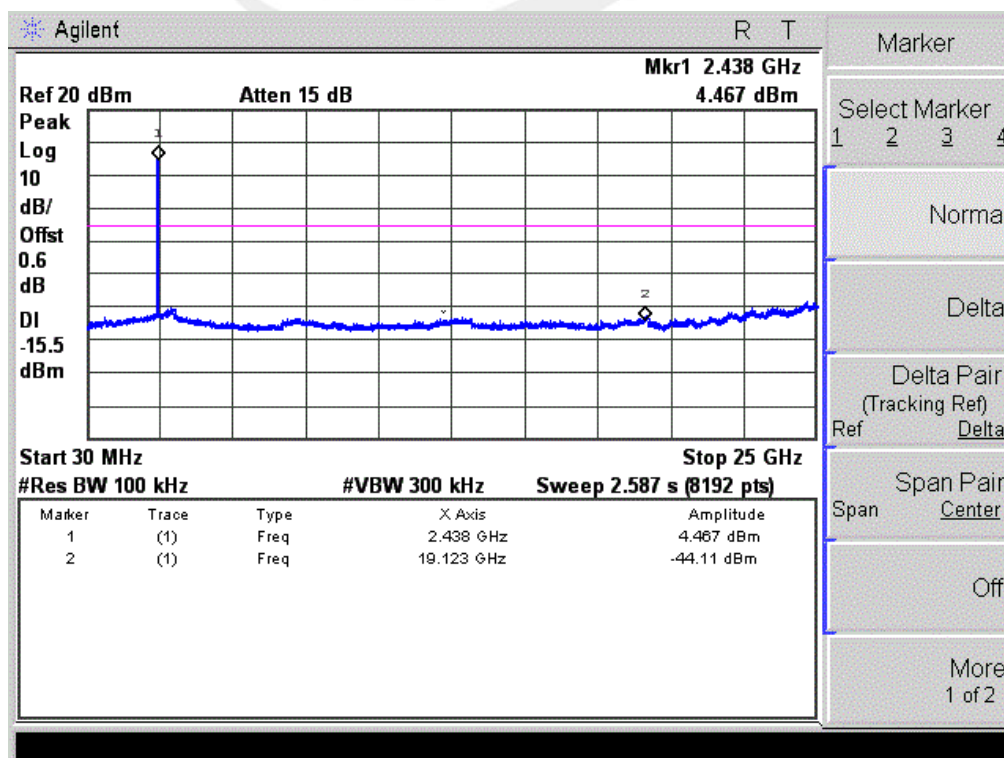


EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

CH 01

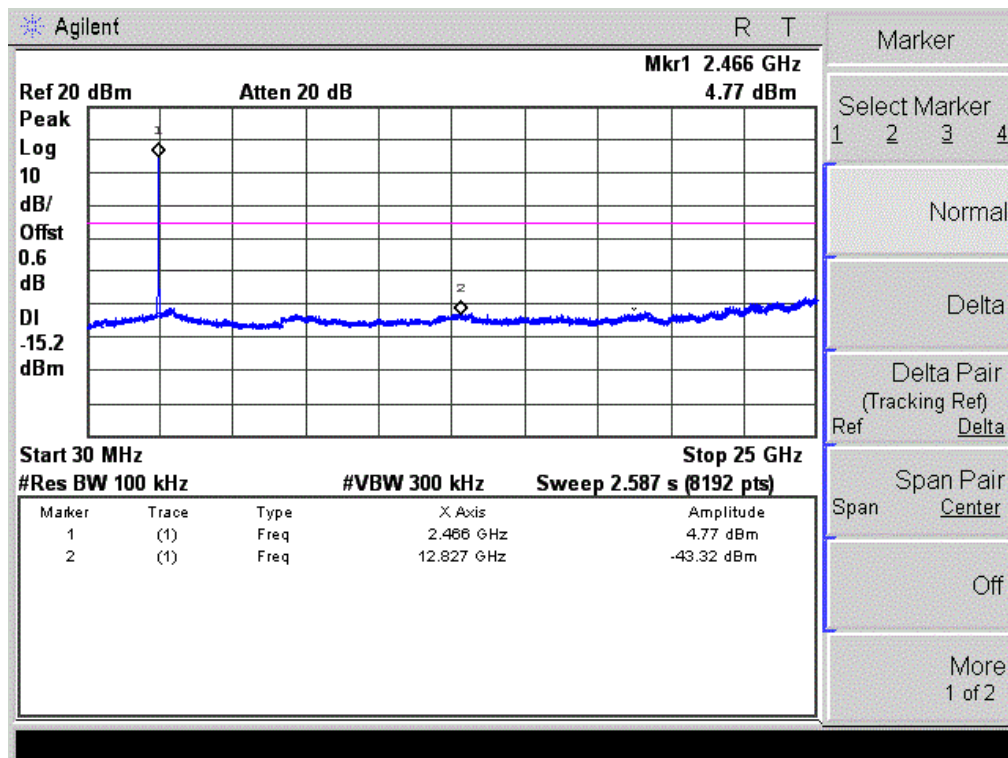


CH 06





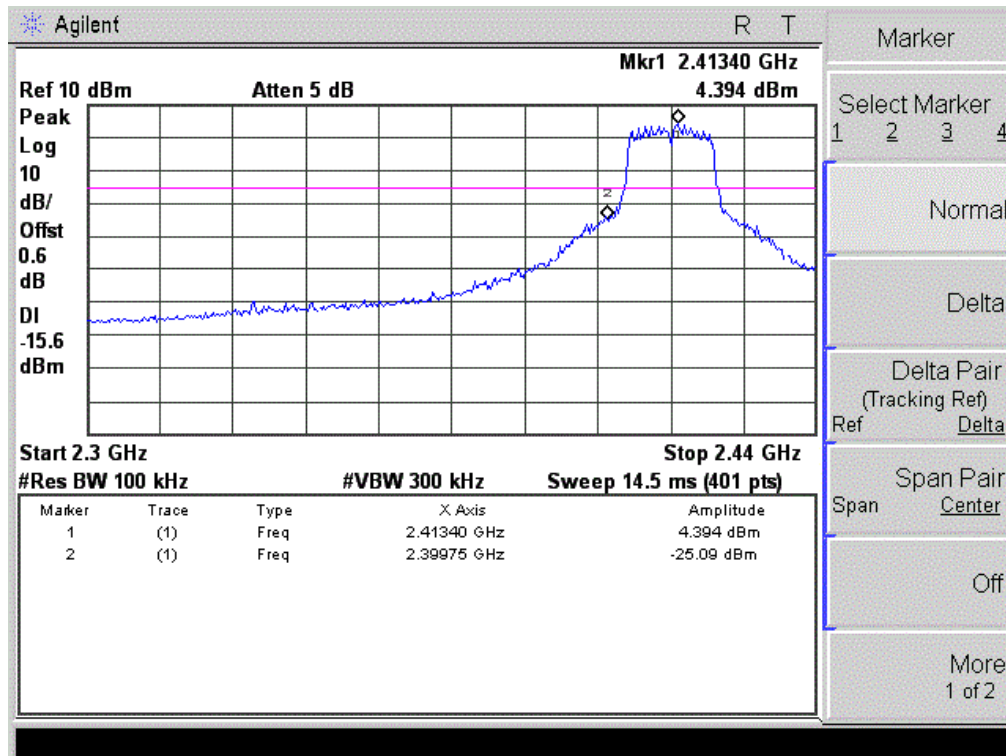
CH 11



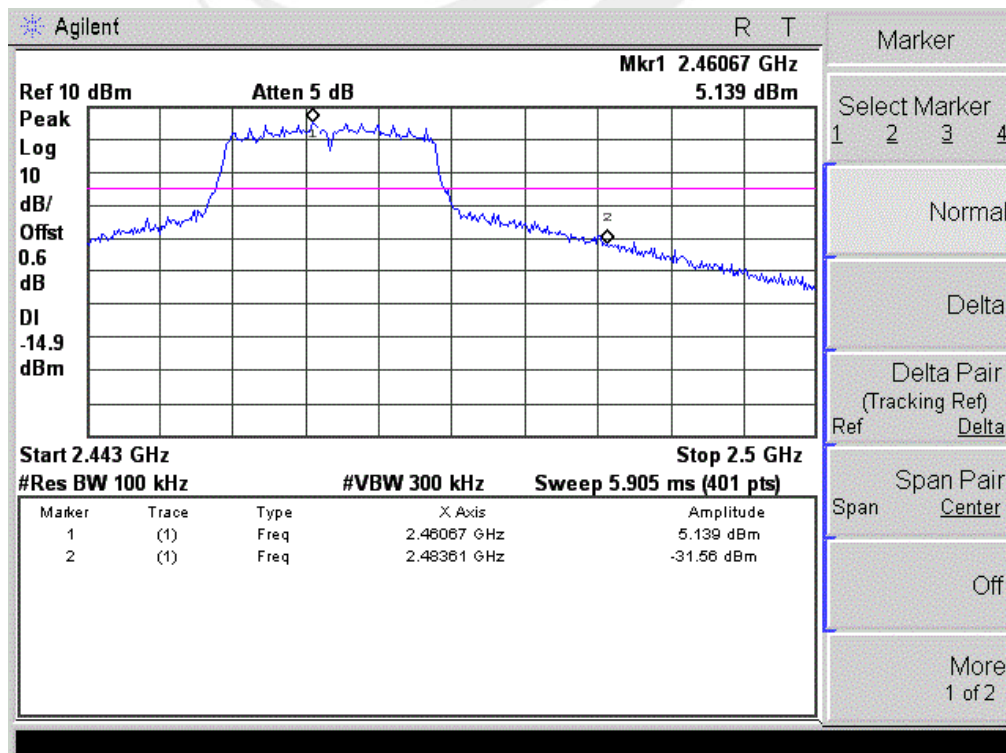


Band edge

CH 01



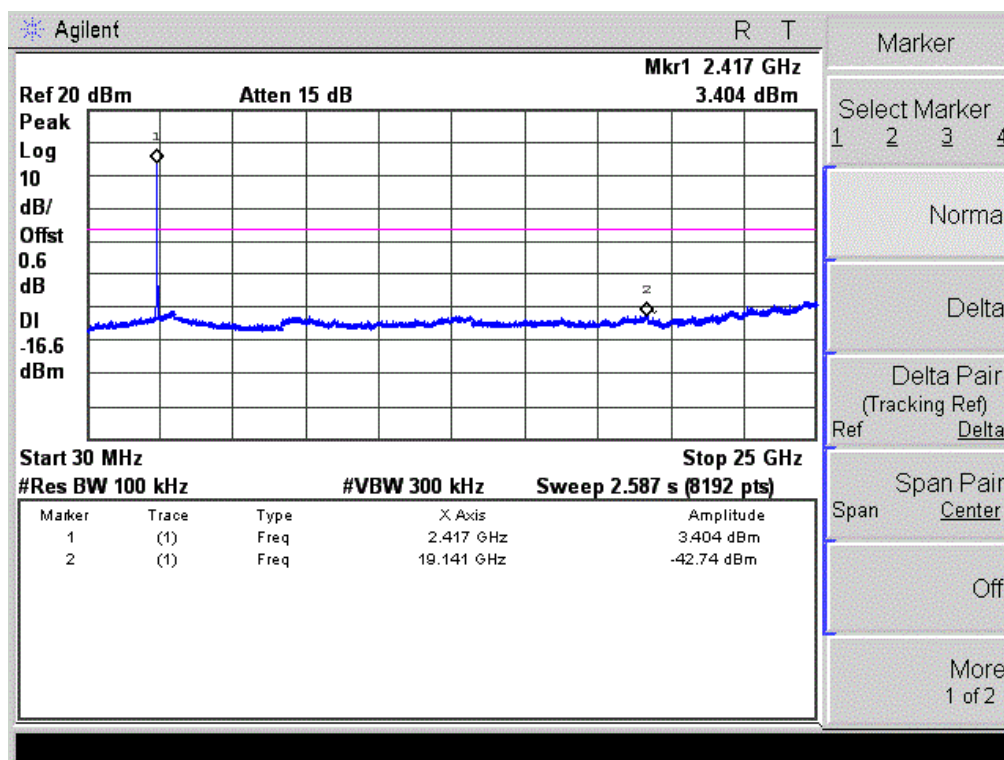
CH11



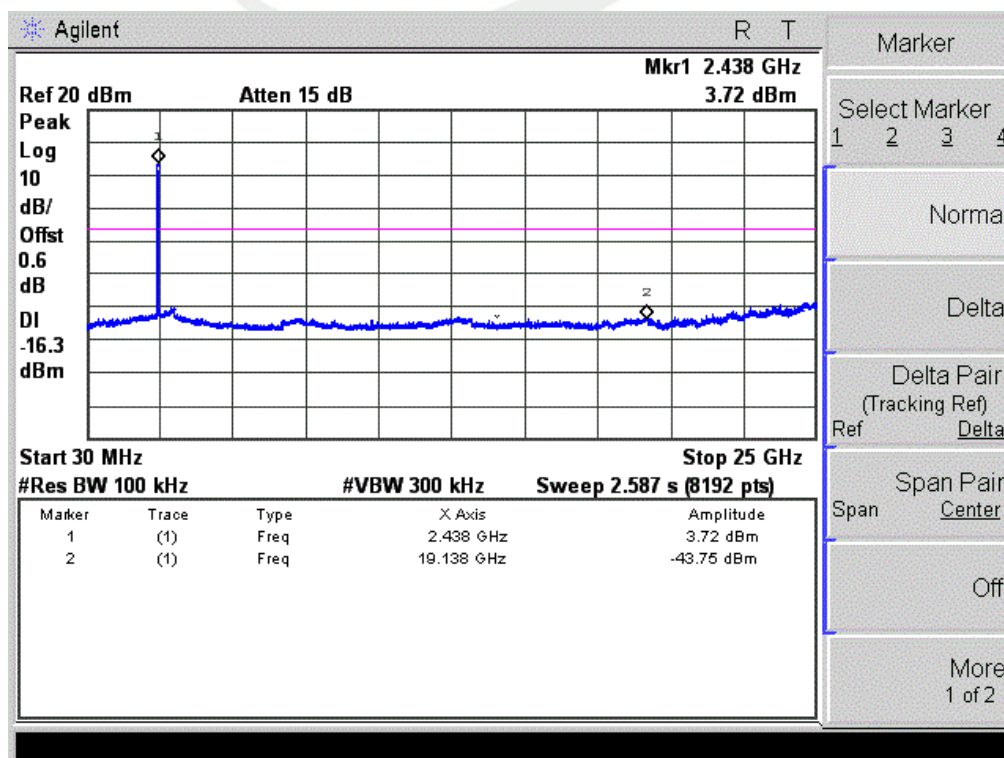


EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

CH 01

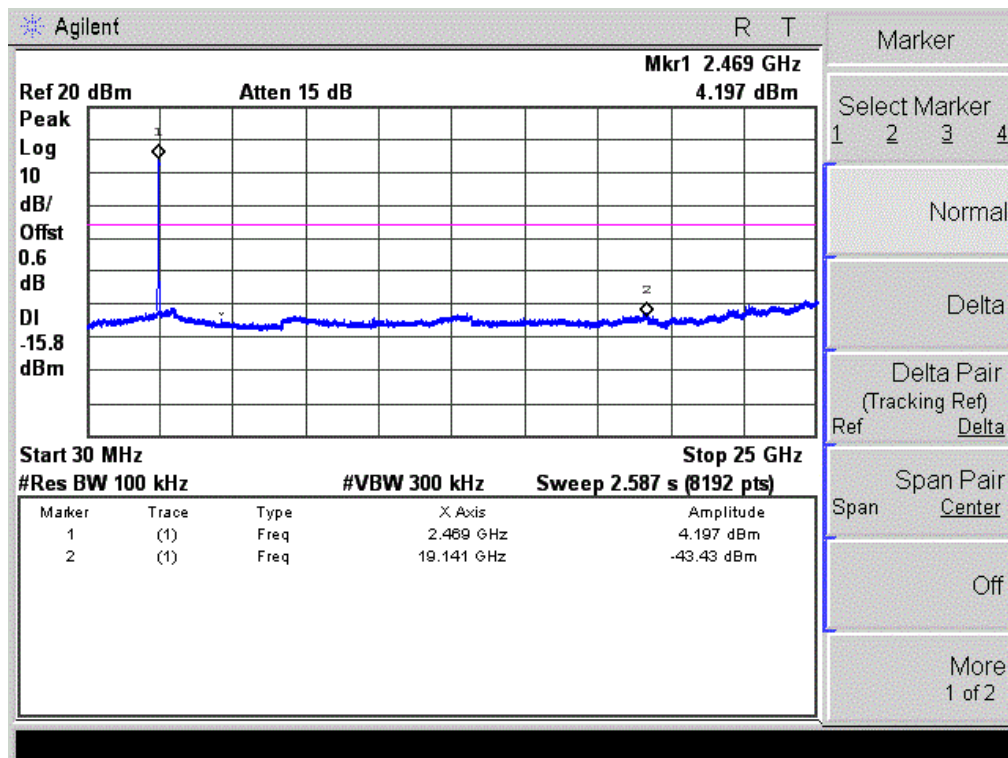


CH 06





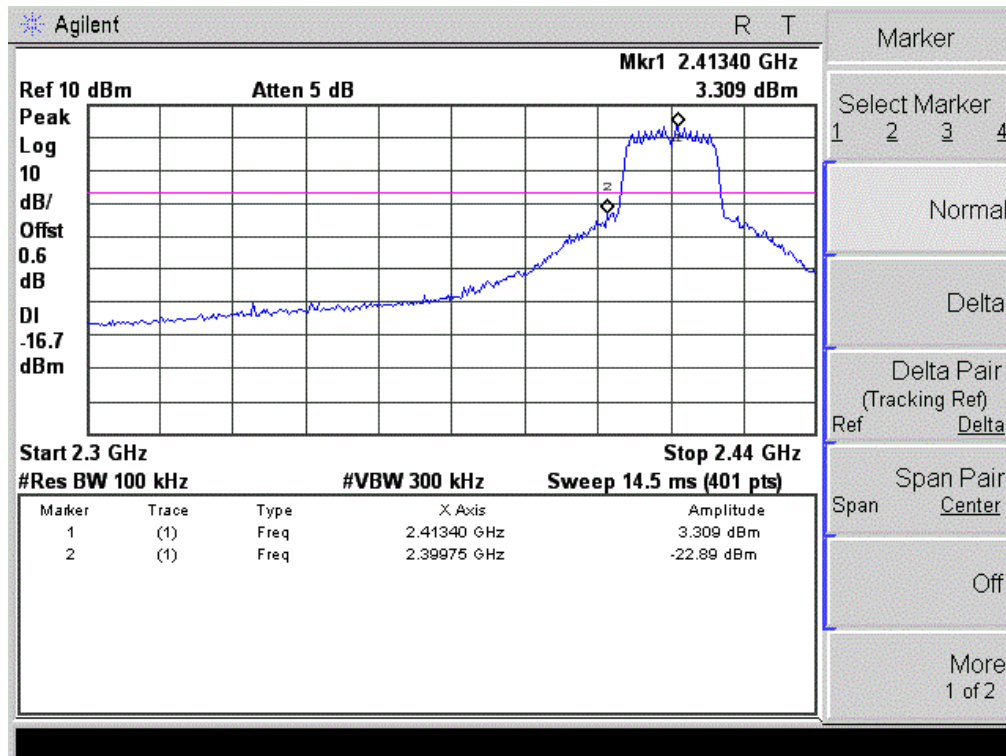
CH 11



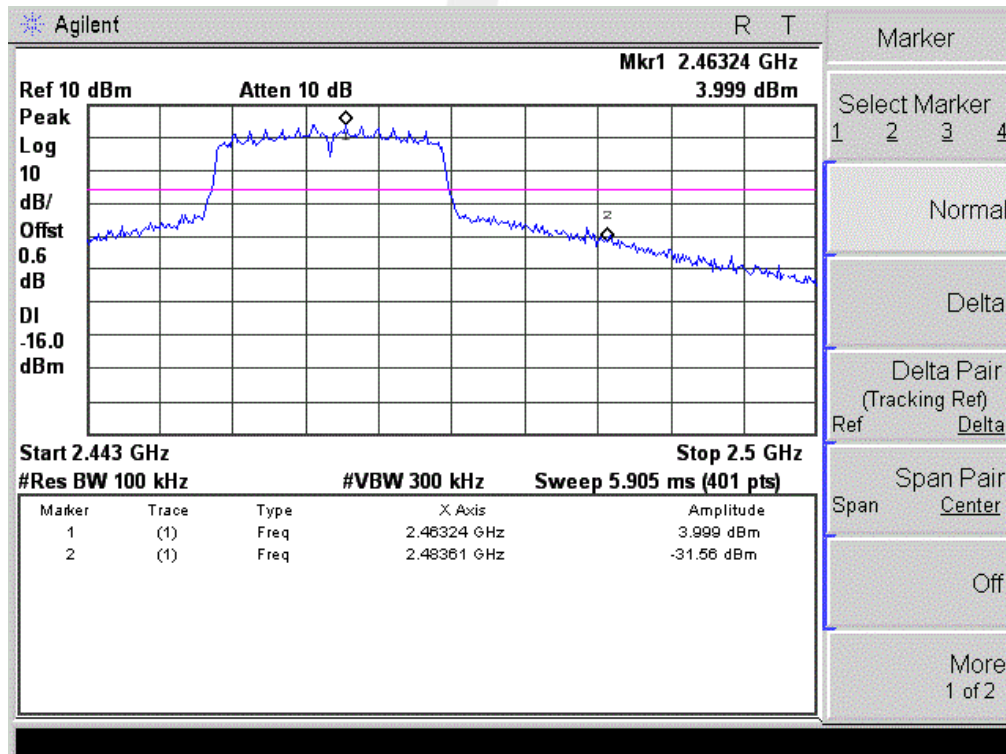


Band edge

CH 01



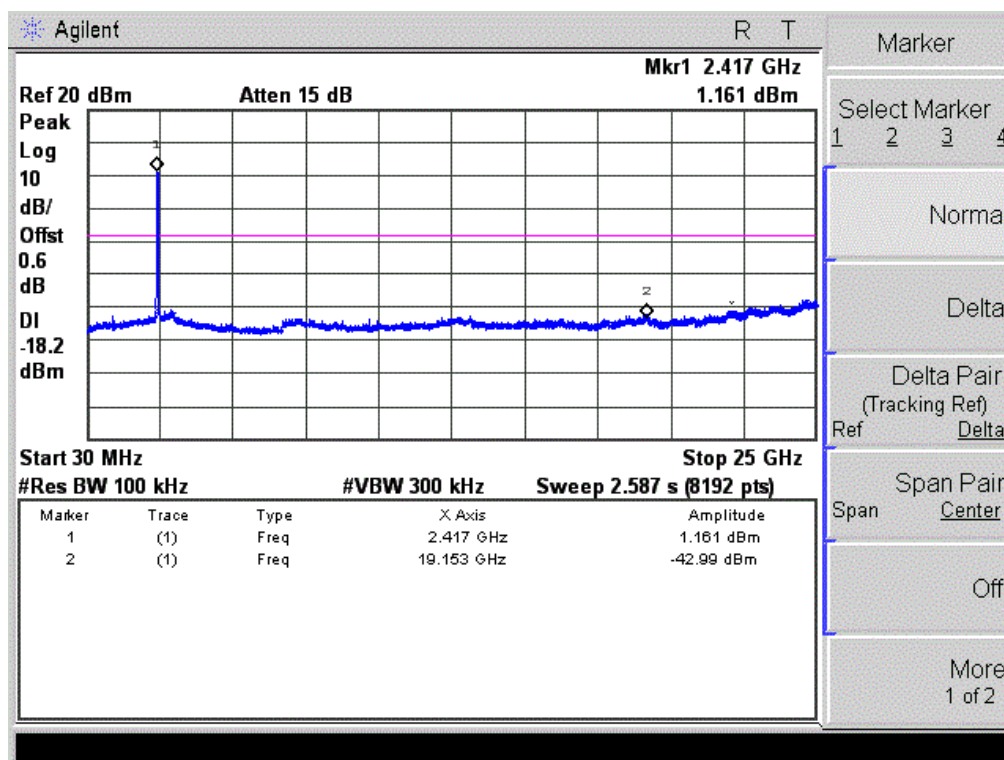
CH 11



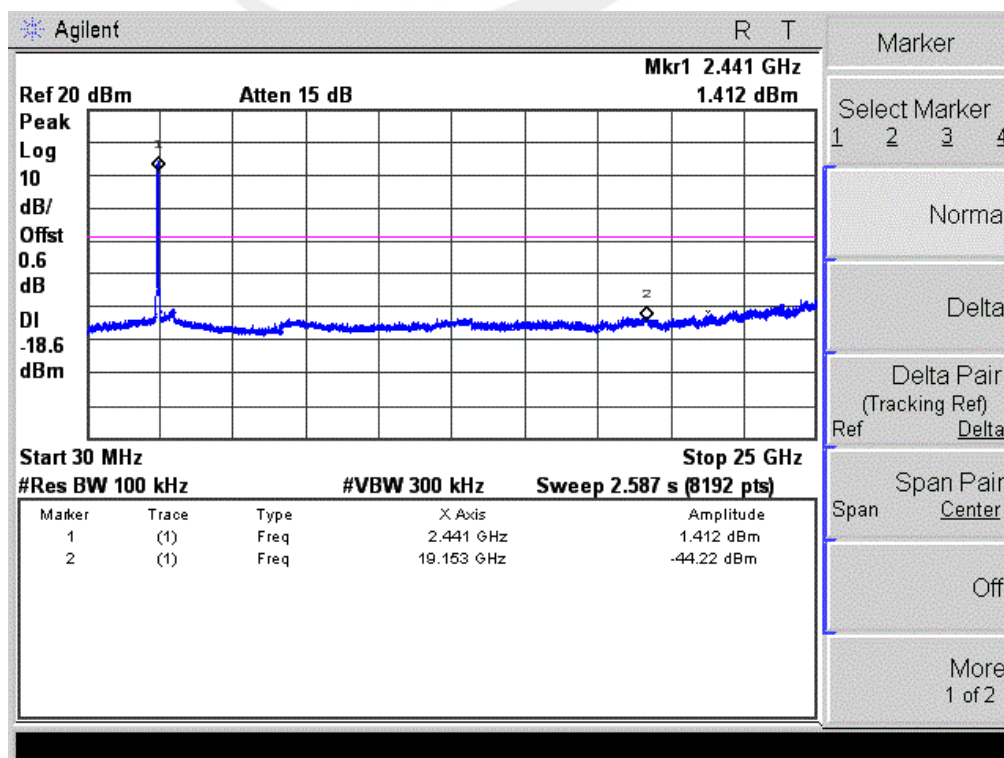


EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

CH 03

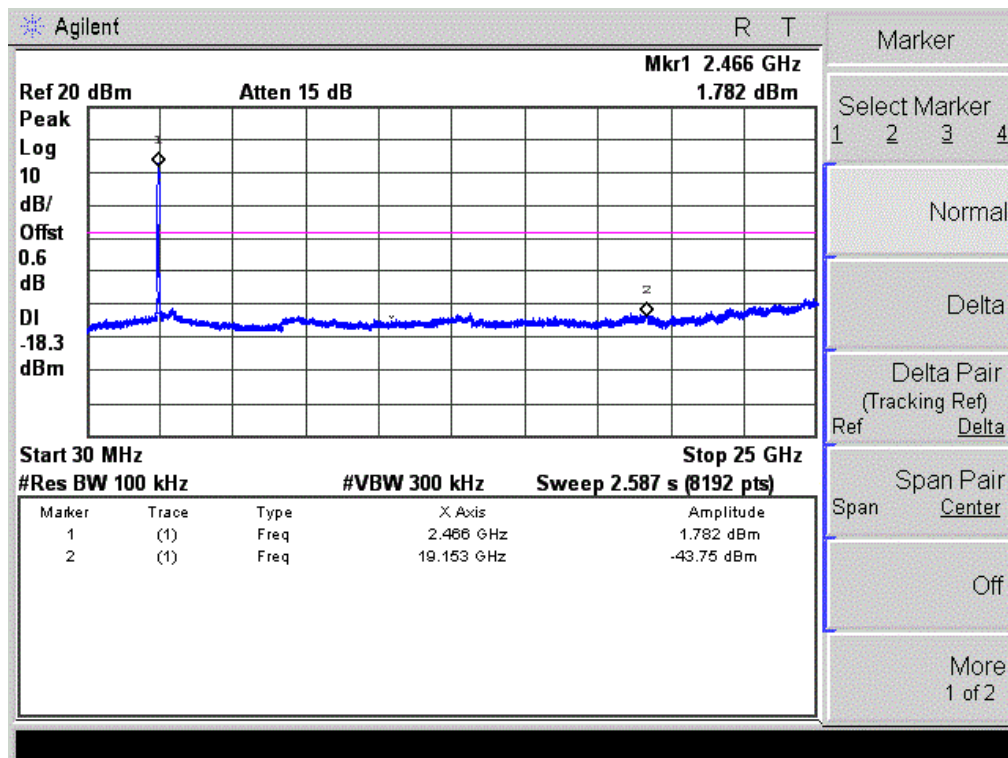


CH06





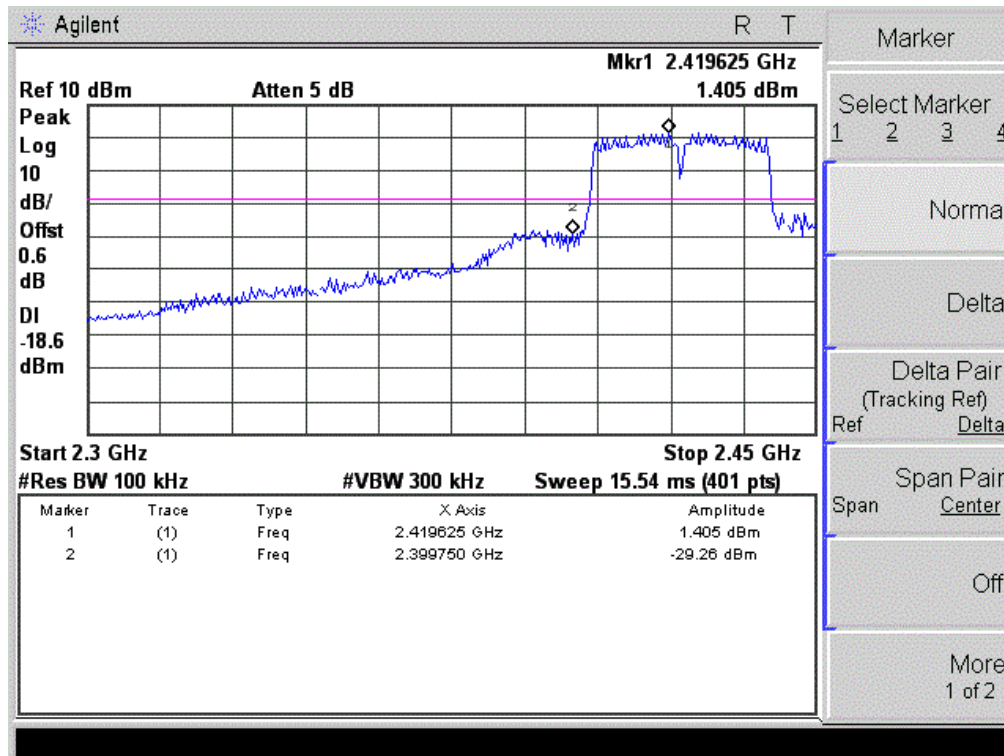
CH09



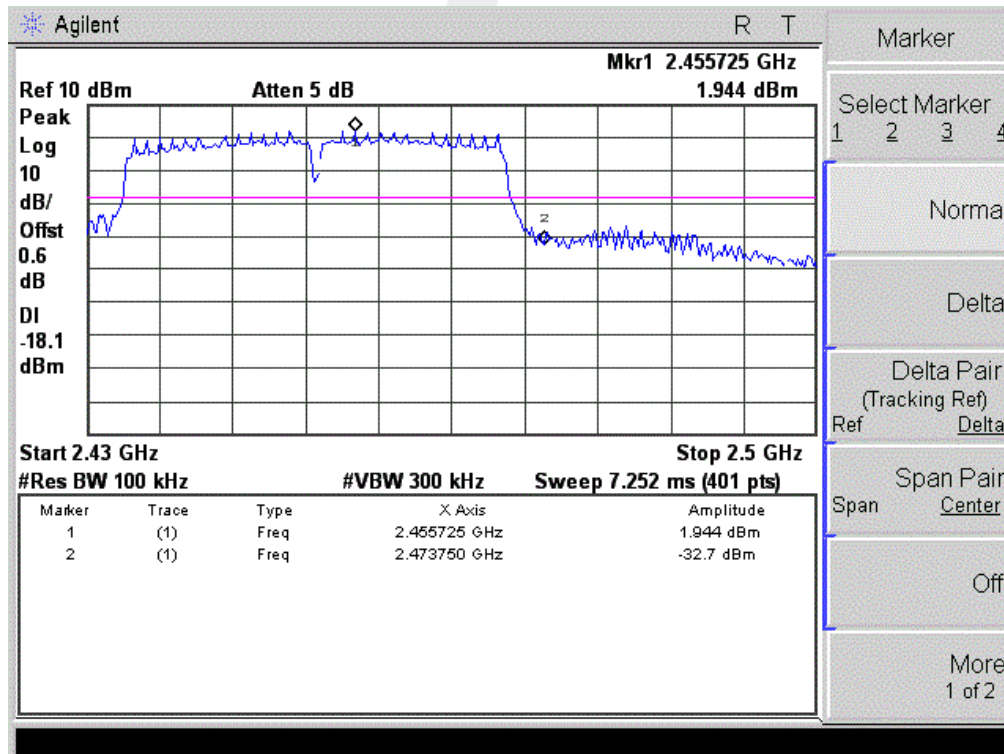


Band edge

CH03



CH 09





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

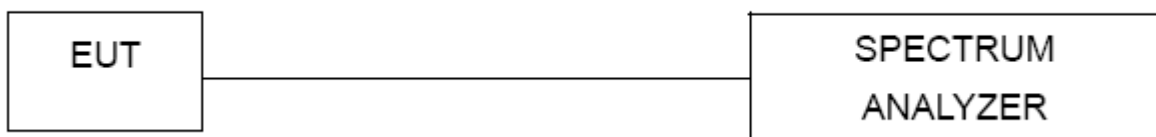
5.2 TEST PROCEDURE

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 $\geq 3 \times$ 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



5.5 EUT OPERATION CONDITIONS

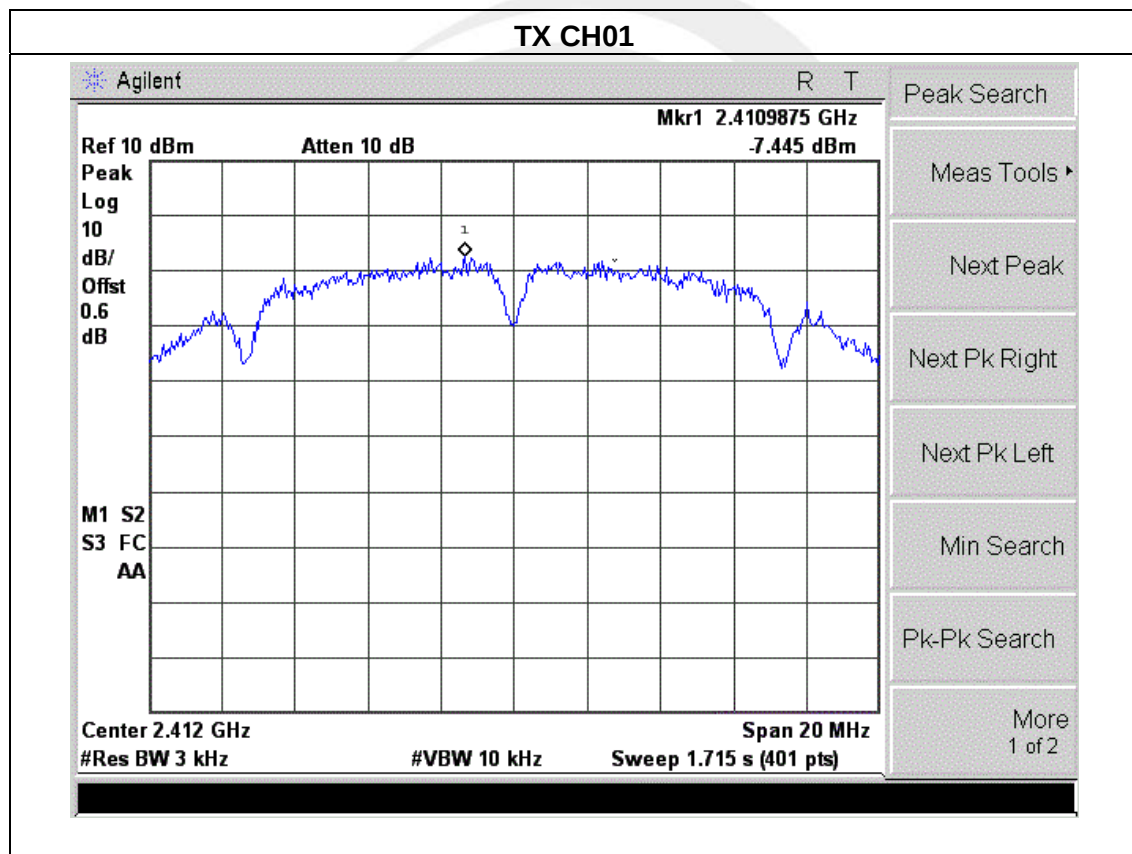
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

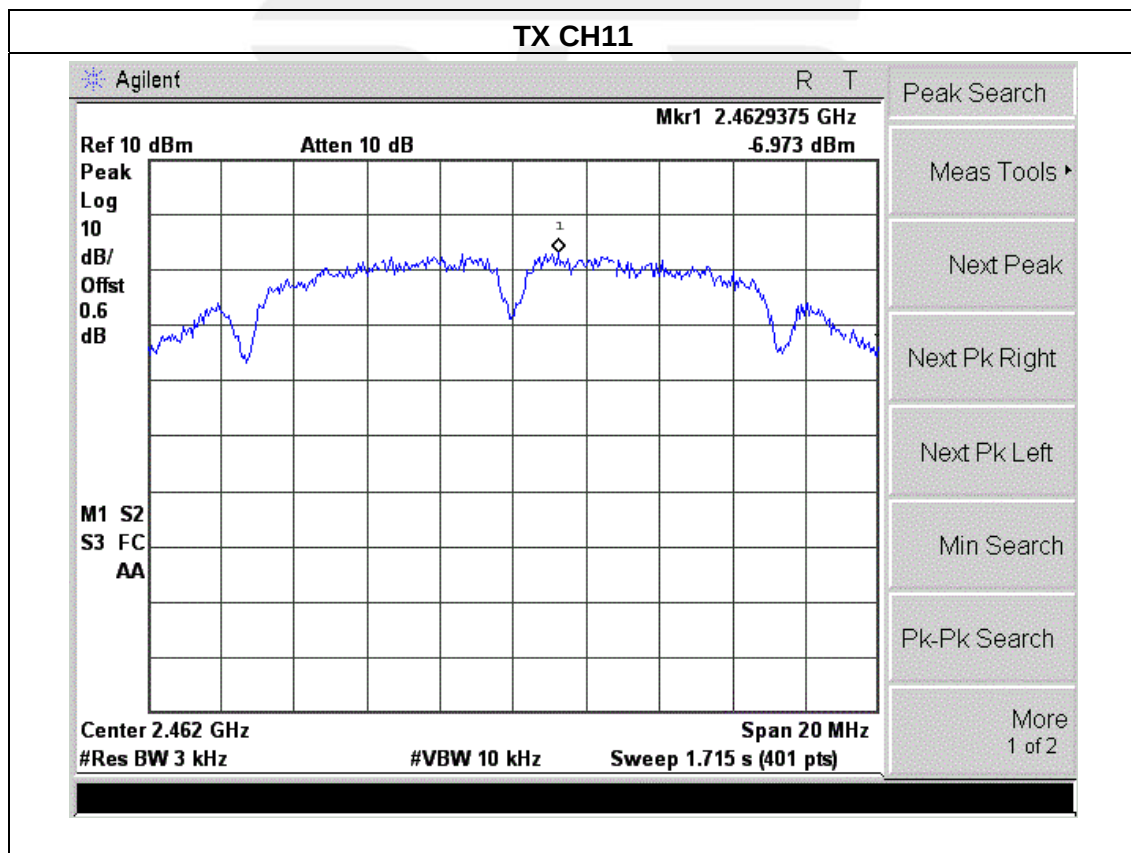
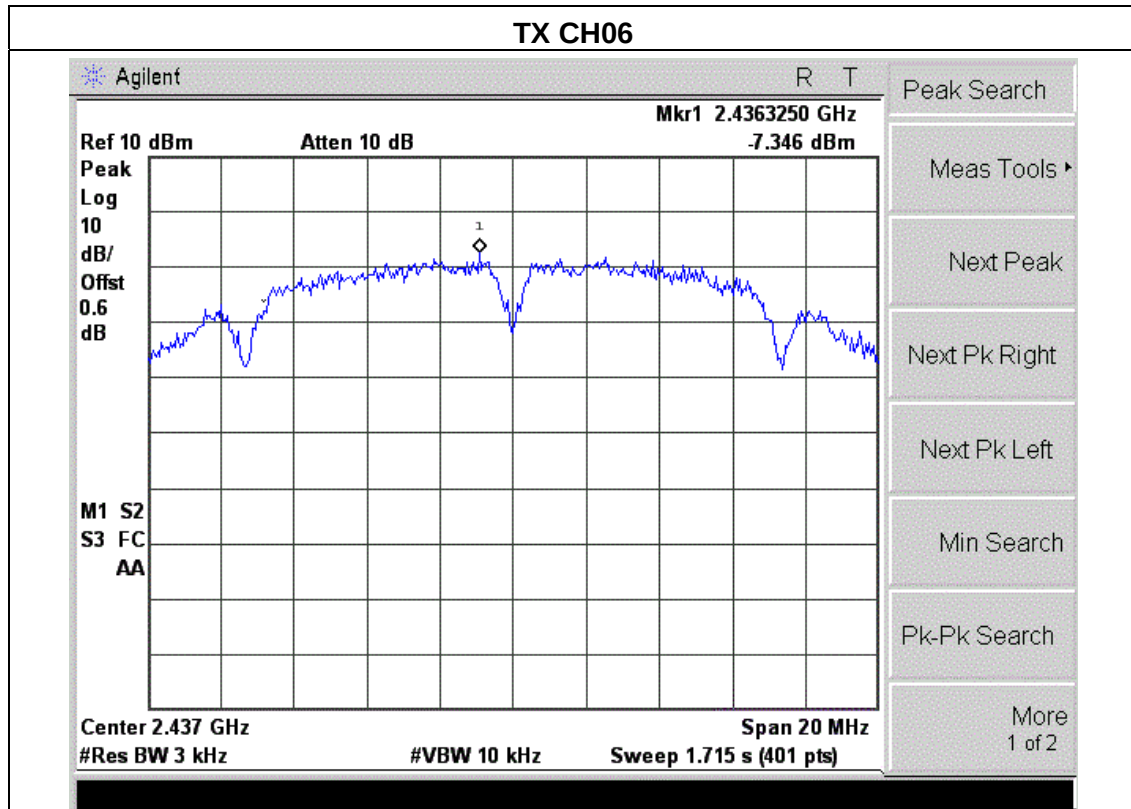


5.6 TEST RESULTS

EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	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	-7.445	8	PASS
2437 MHz	-7.346	8	PASS
2462 MHz	-6.973	8	PASS

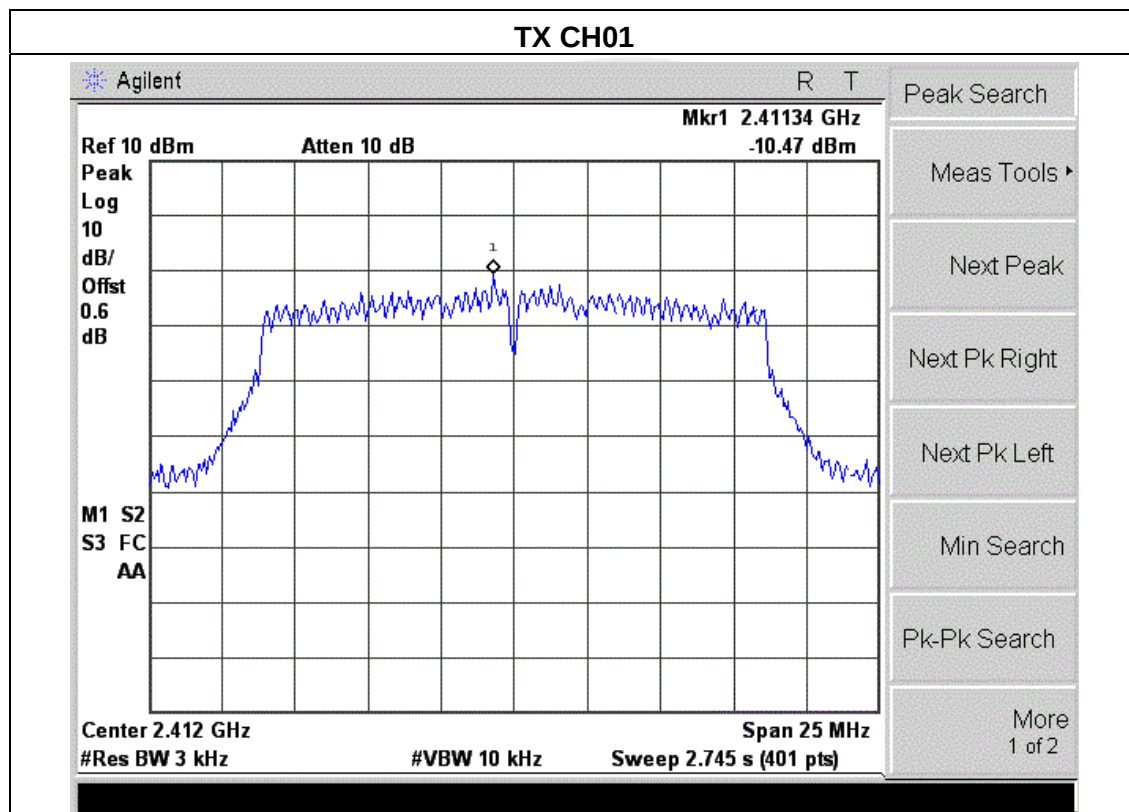


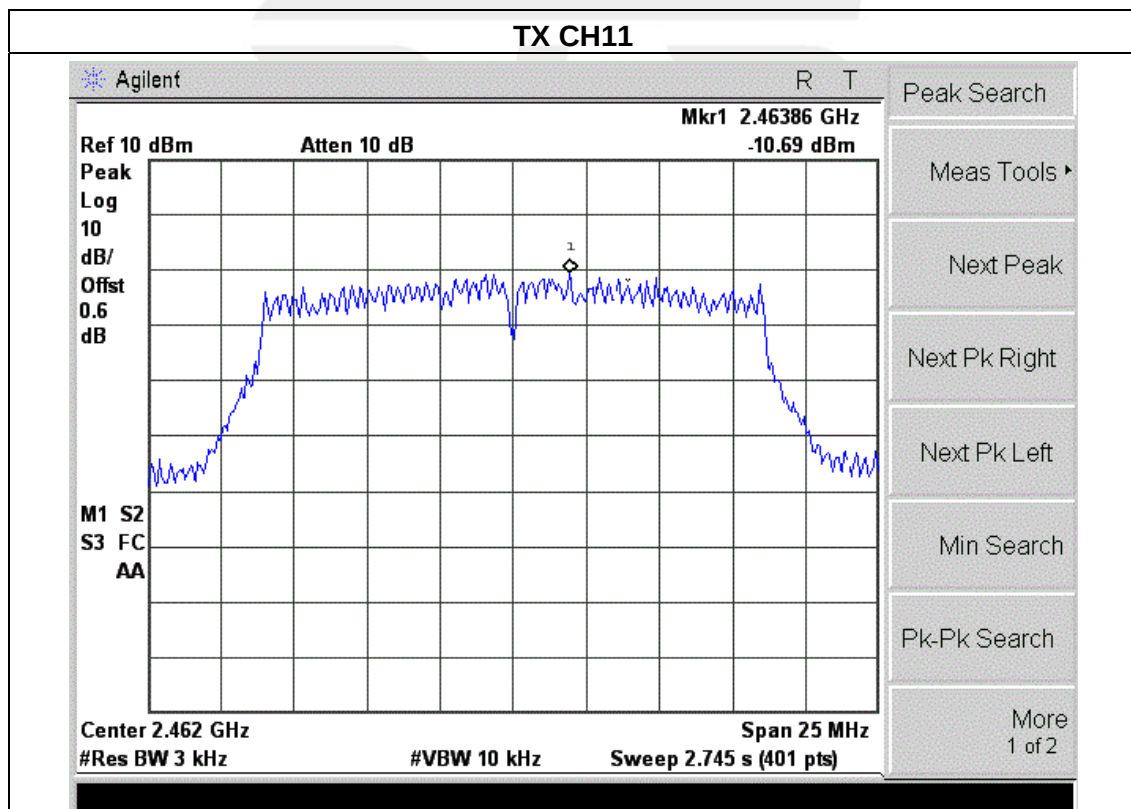
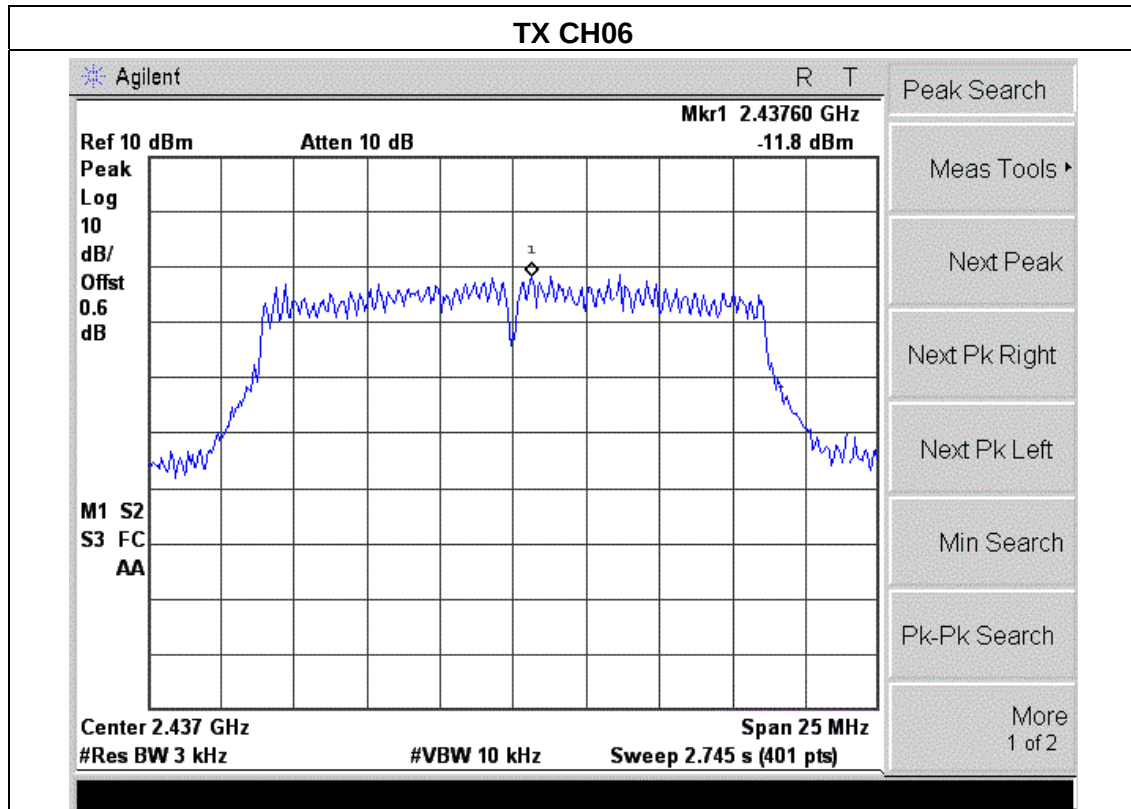




EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-10.47	8	PASS
2437 MHz	-11.80	8	PASS
2462 MHz	-10.69	8	PASS

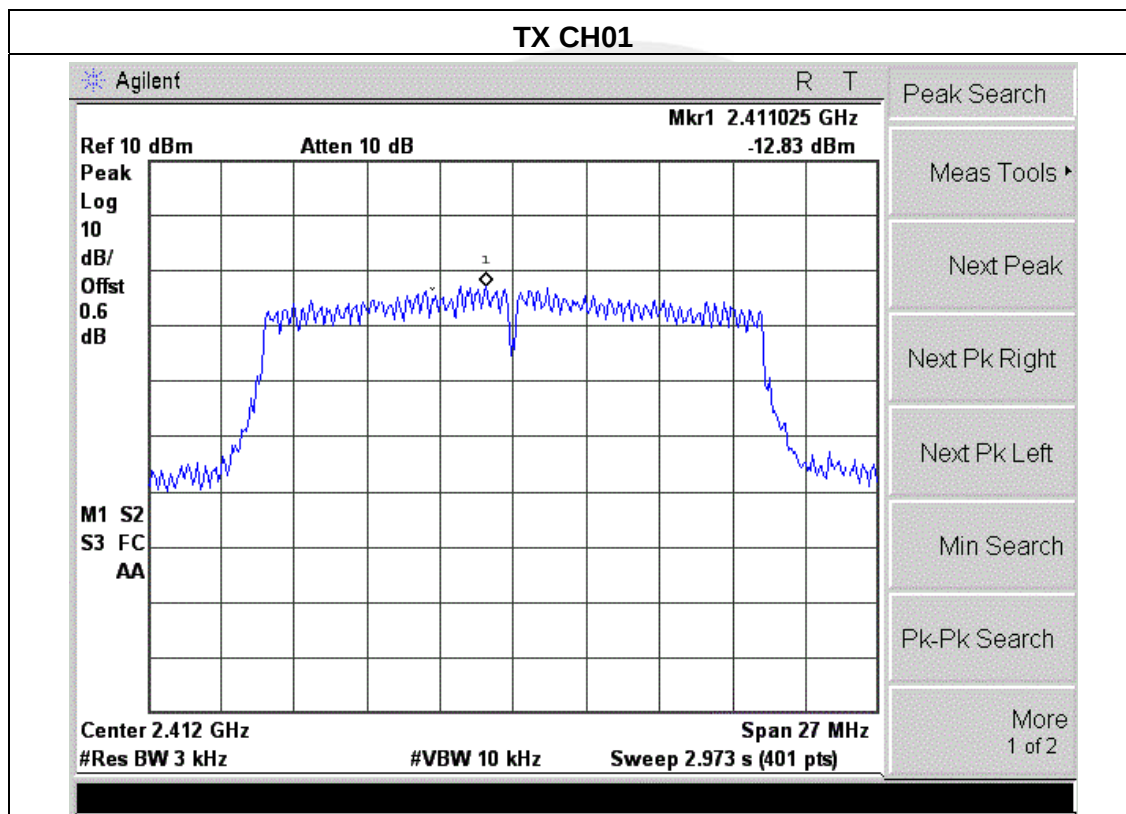


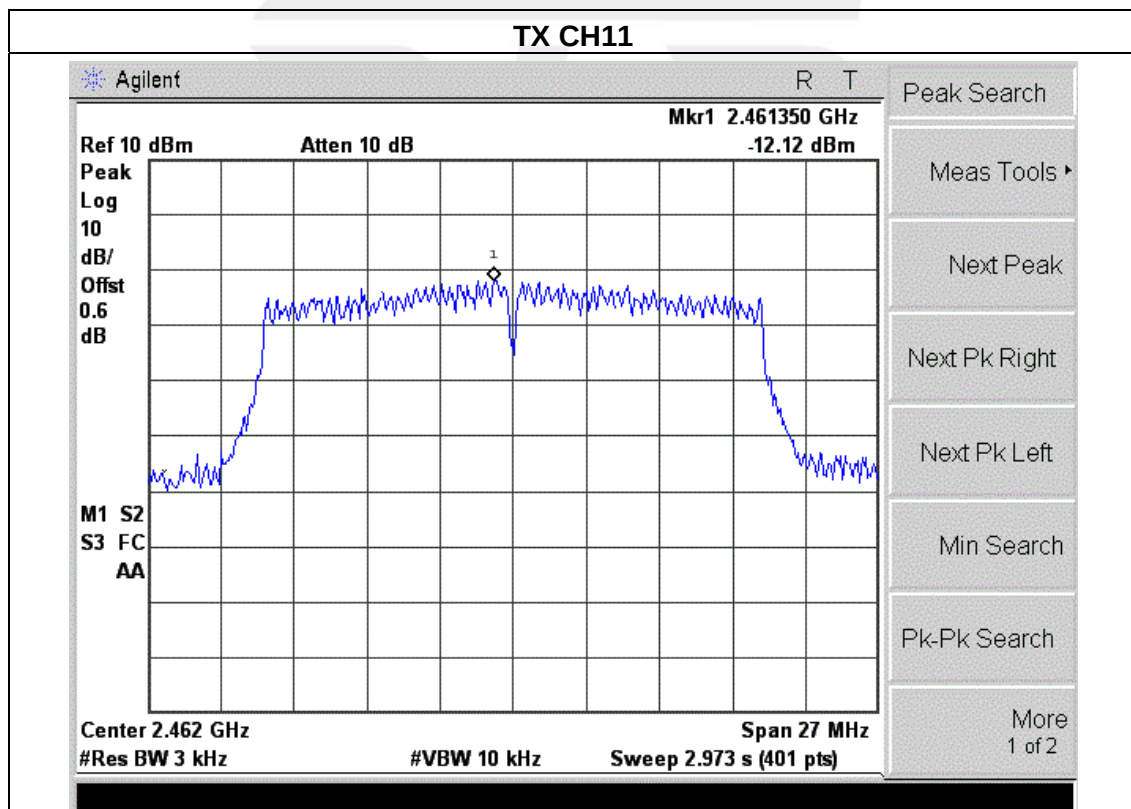
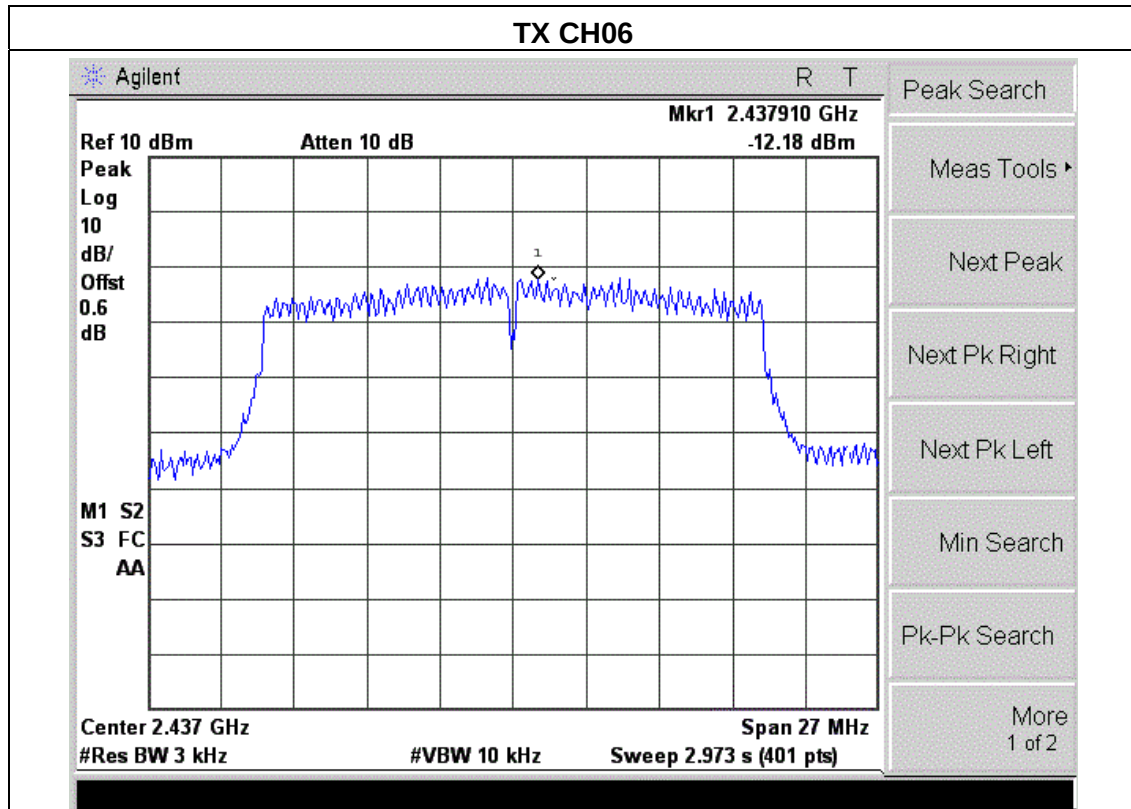




EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-12.83	8	PASS
2437 MHz	-12.18	8	PASS
2462 MHz	-12.12	8	PASS

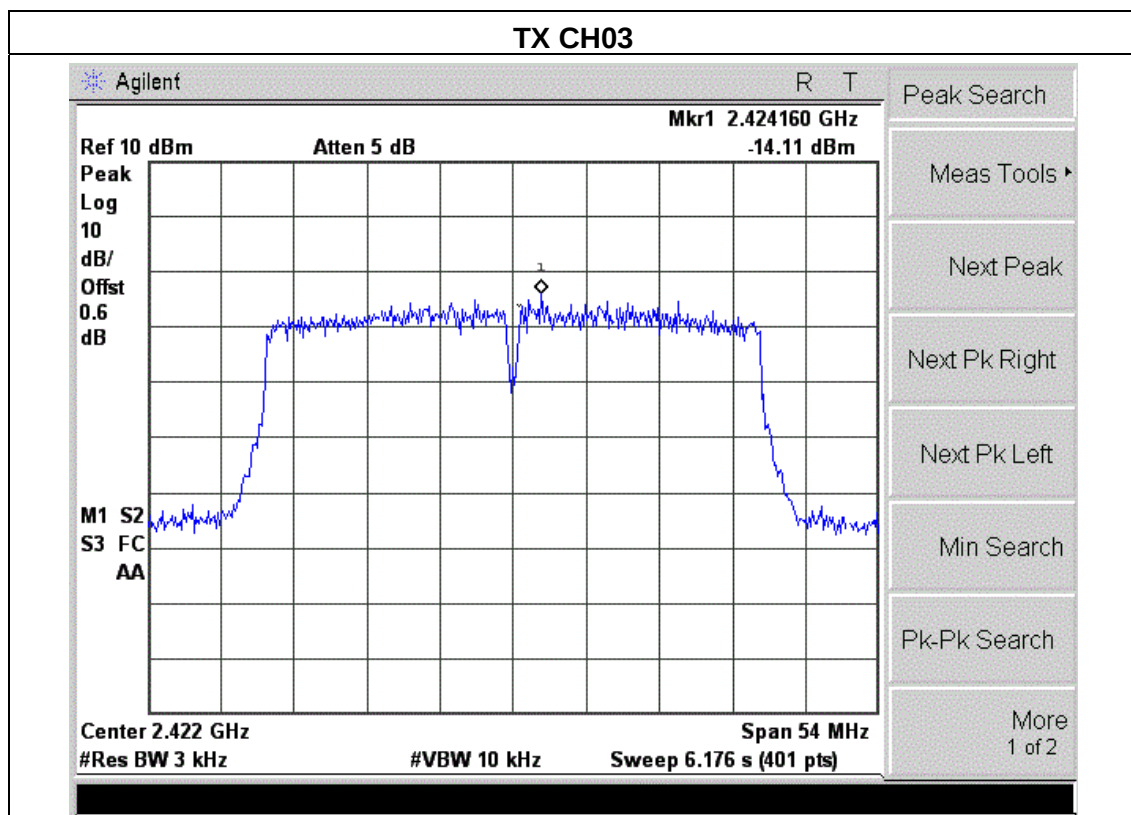


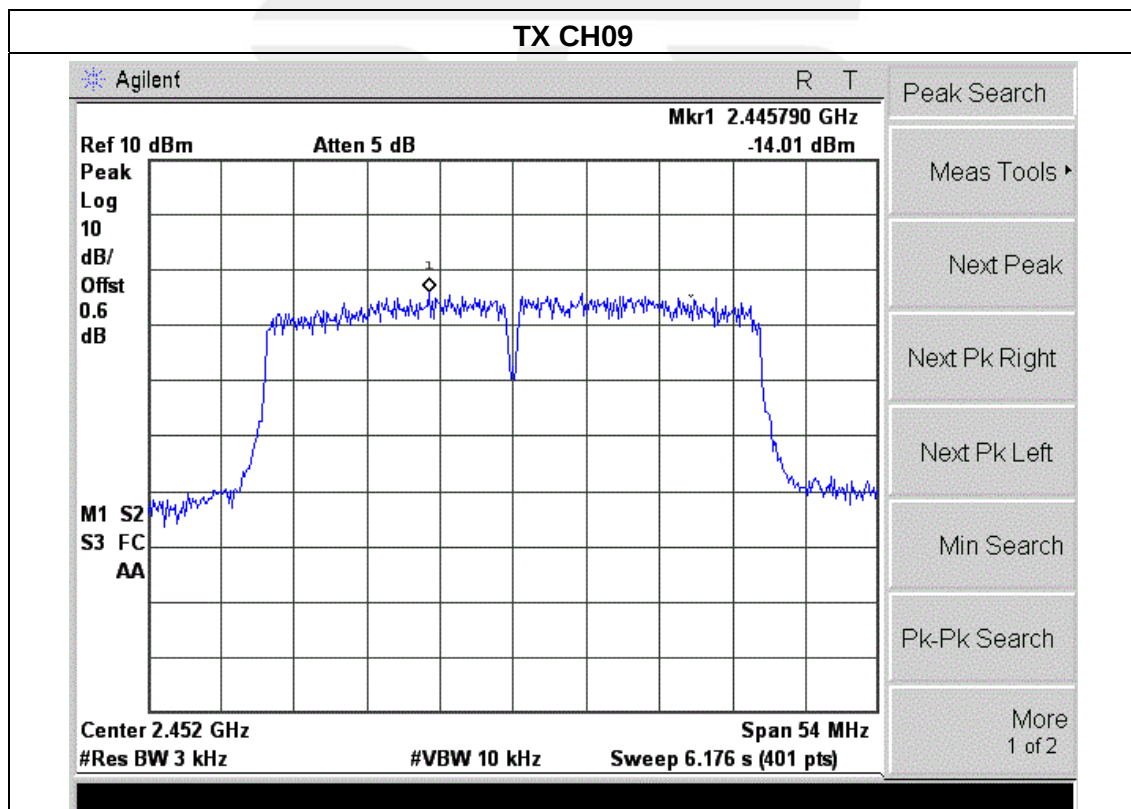
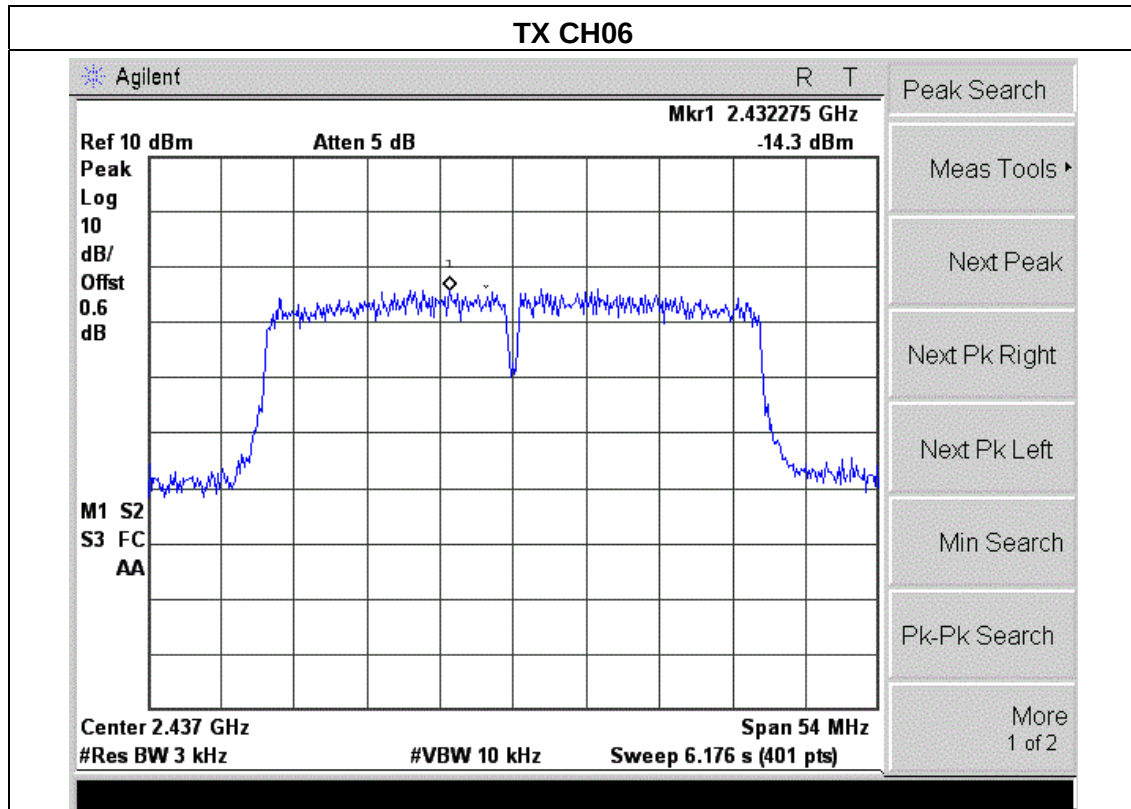




EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-14.11	8	PASS
2437 MHz	-14.30	8	PASS
2452 MHz	-14.01	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	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

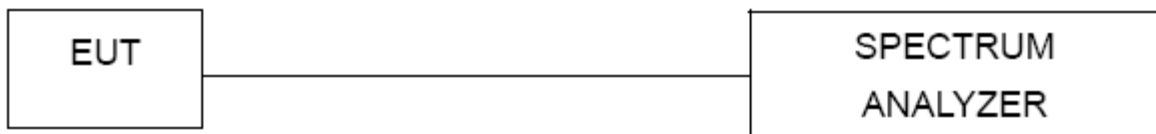
6.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ 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 dB relative to the maximum level measured in the fundamental emission.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

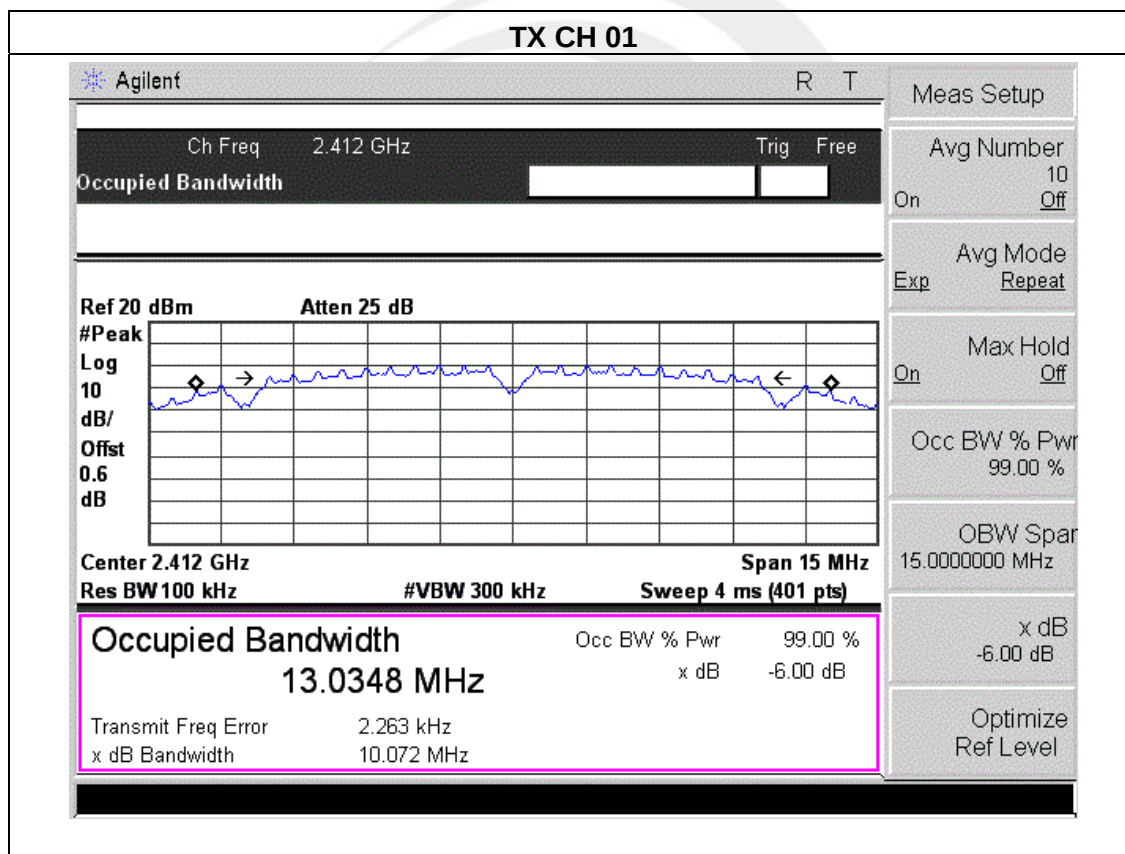
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



6.6 TEST RESULTS

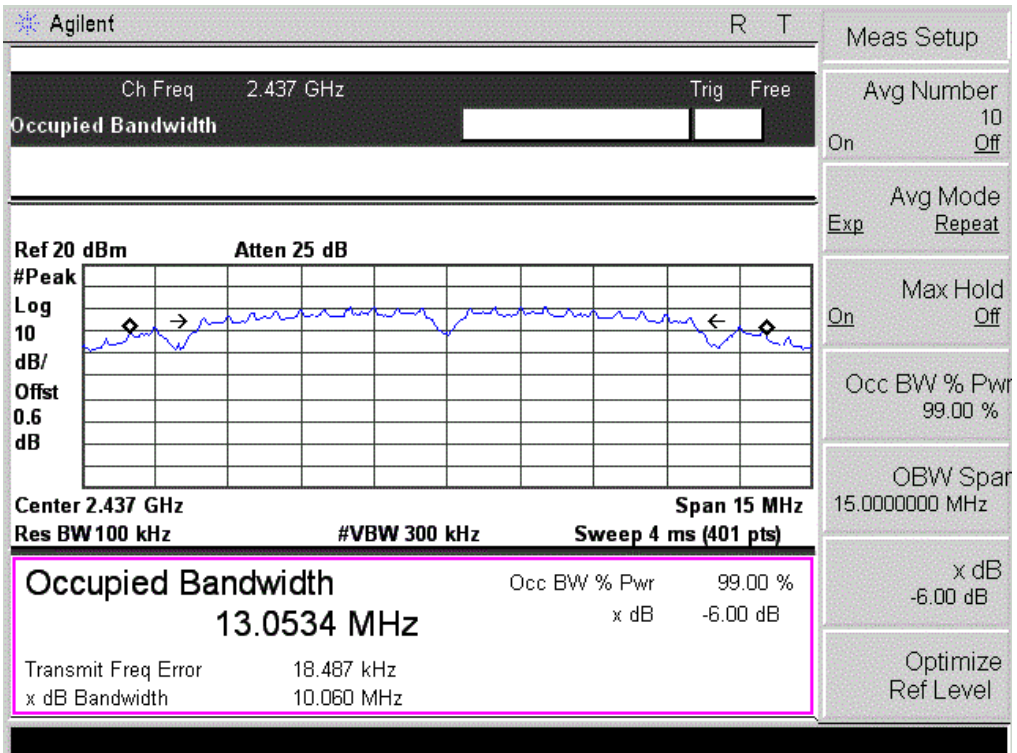
EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	10.072	>=500KHz	PASS
2437 MHz	10.060	>=500KHz	PASS
2462 MHz	10.060	>=500KHz	PASS

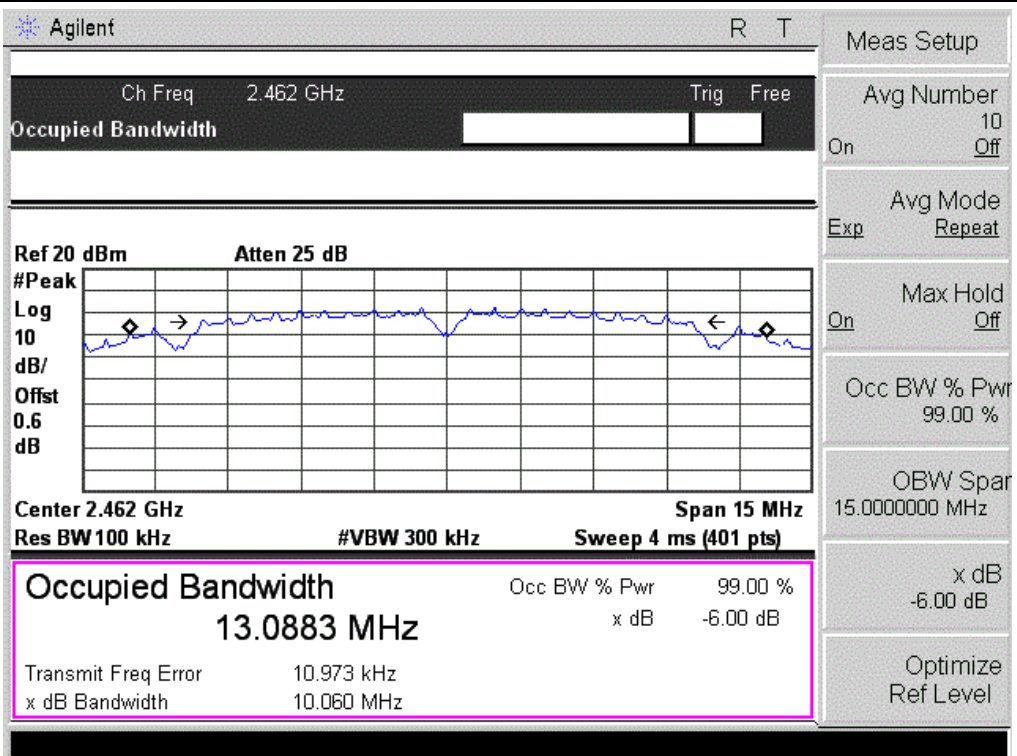




TX CH 06



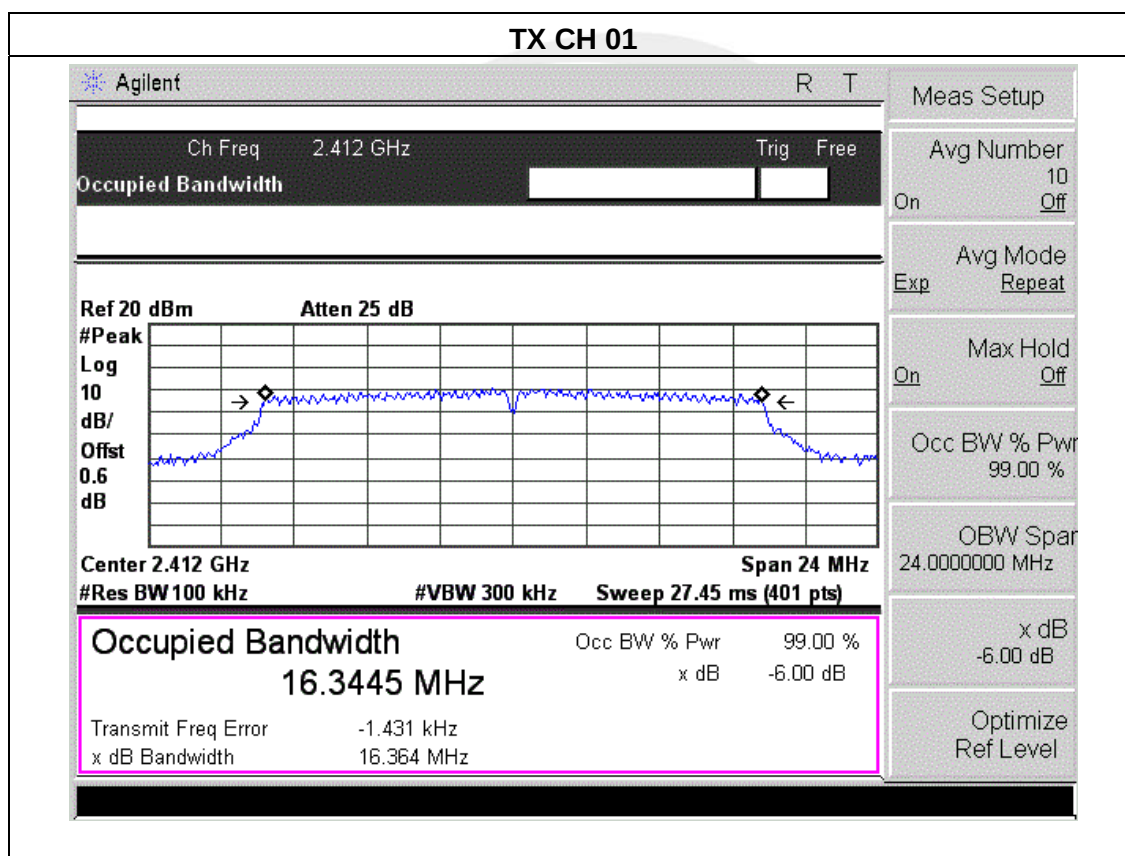
TX CH 11





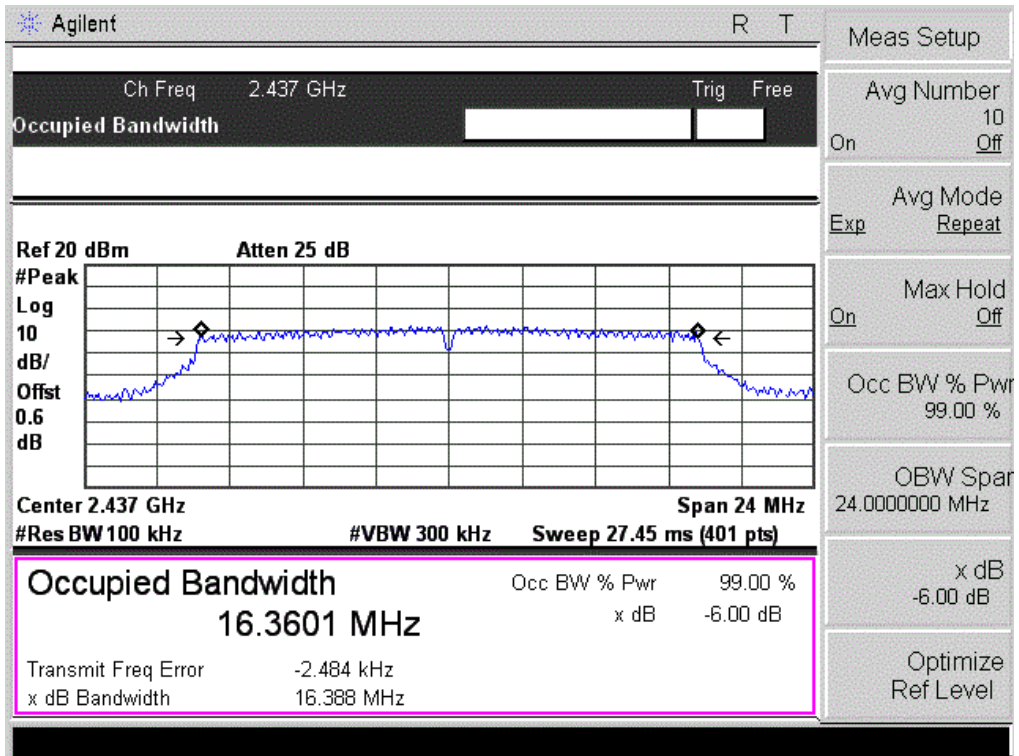
EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	16.364	>=500KHz	PASS
2437 MHz	16.388	>=500KHz	PASS
2462 MHz	16.417	>=500KHz	PASS

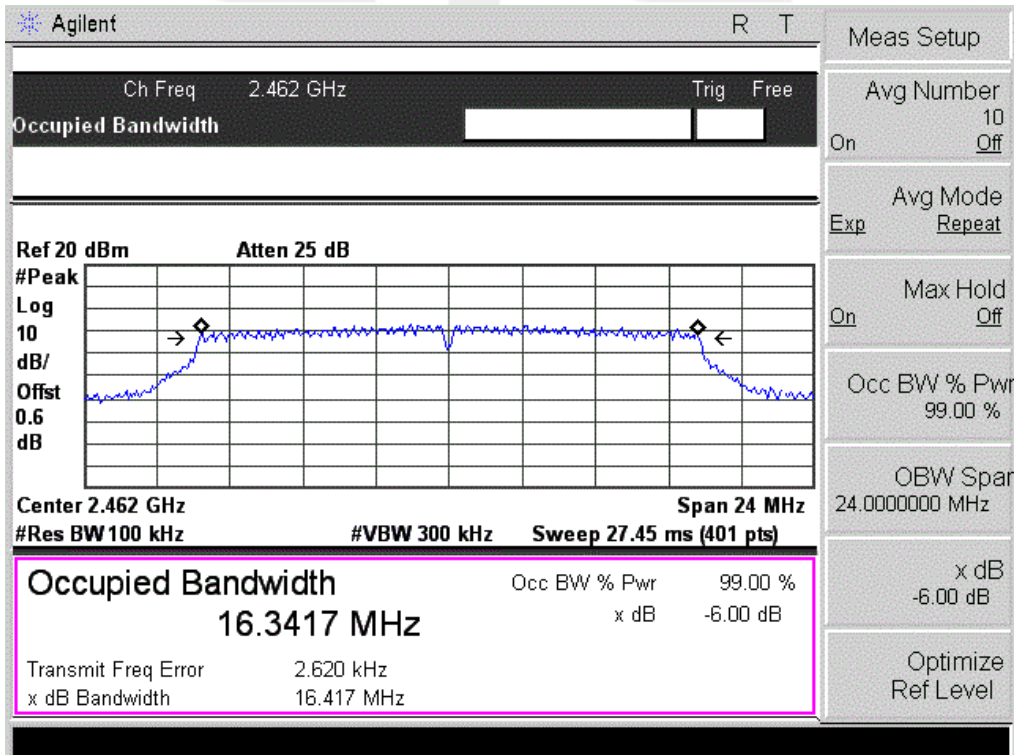




TX CH 06



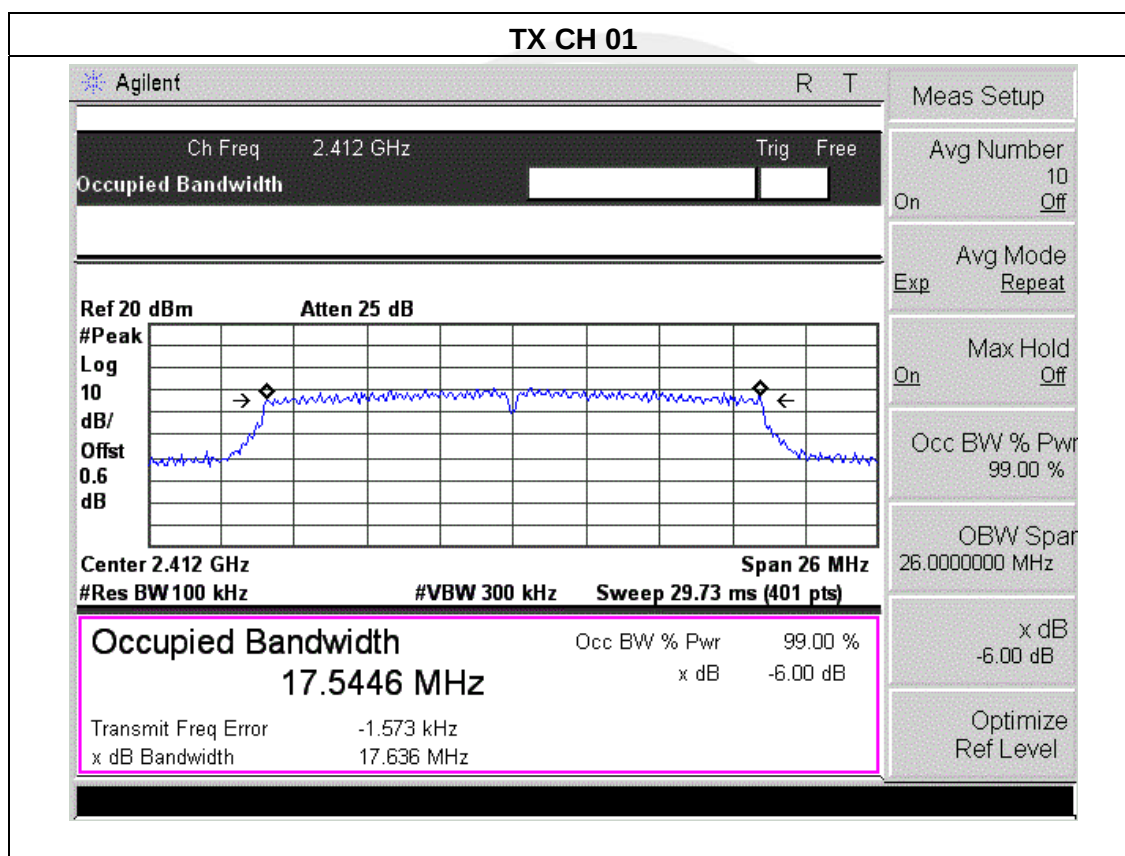
TX CH 11

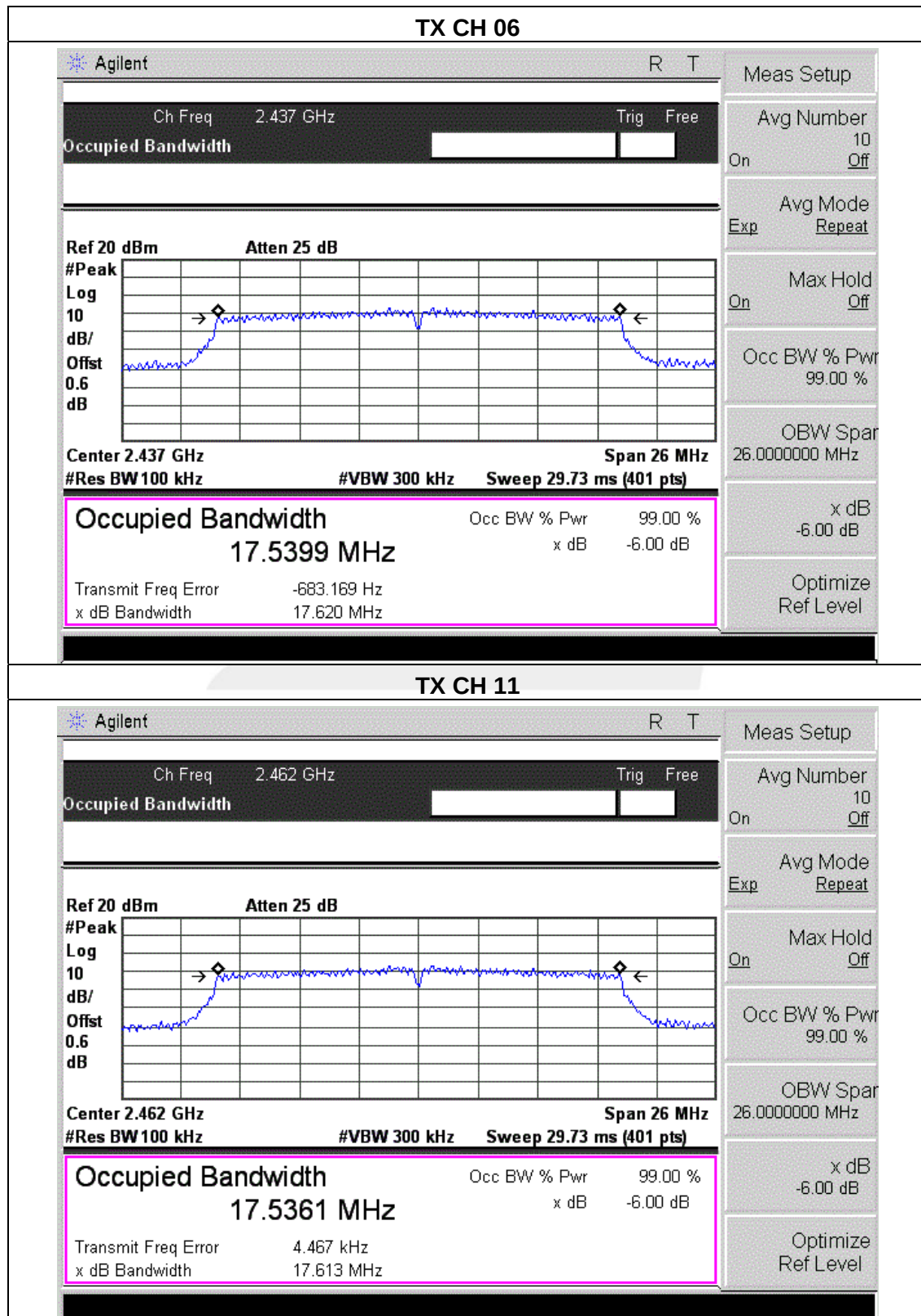




EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2412 MHz	17.636	>=500KHz	PASS
2437 MHz	17.620	>=500KHz	PASS
2462 MHz	17.613	>=500KHz	PASS

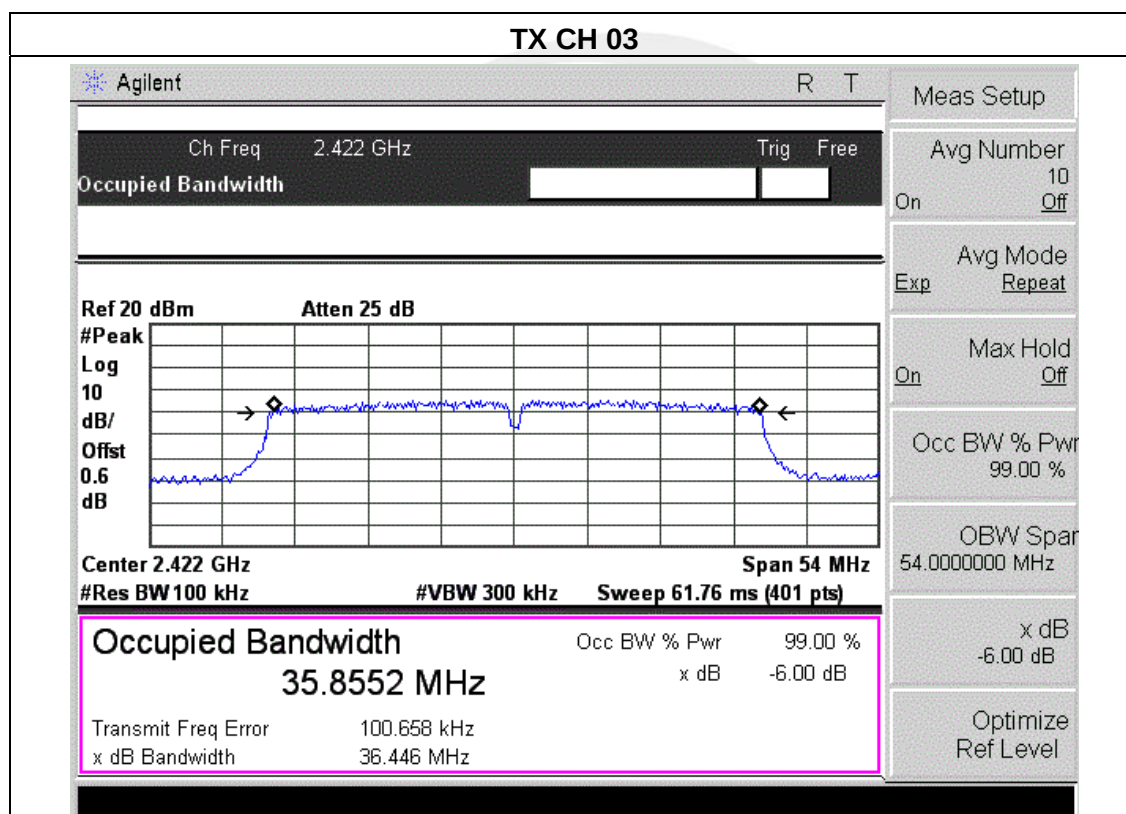


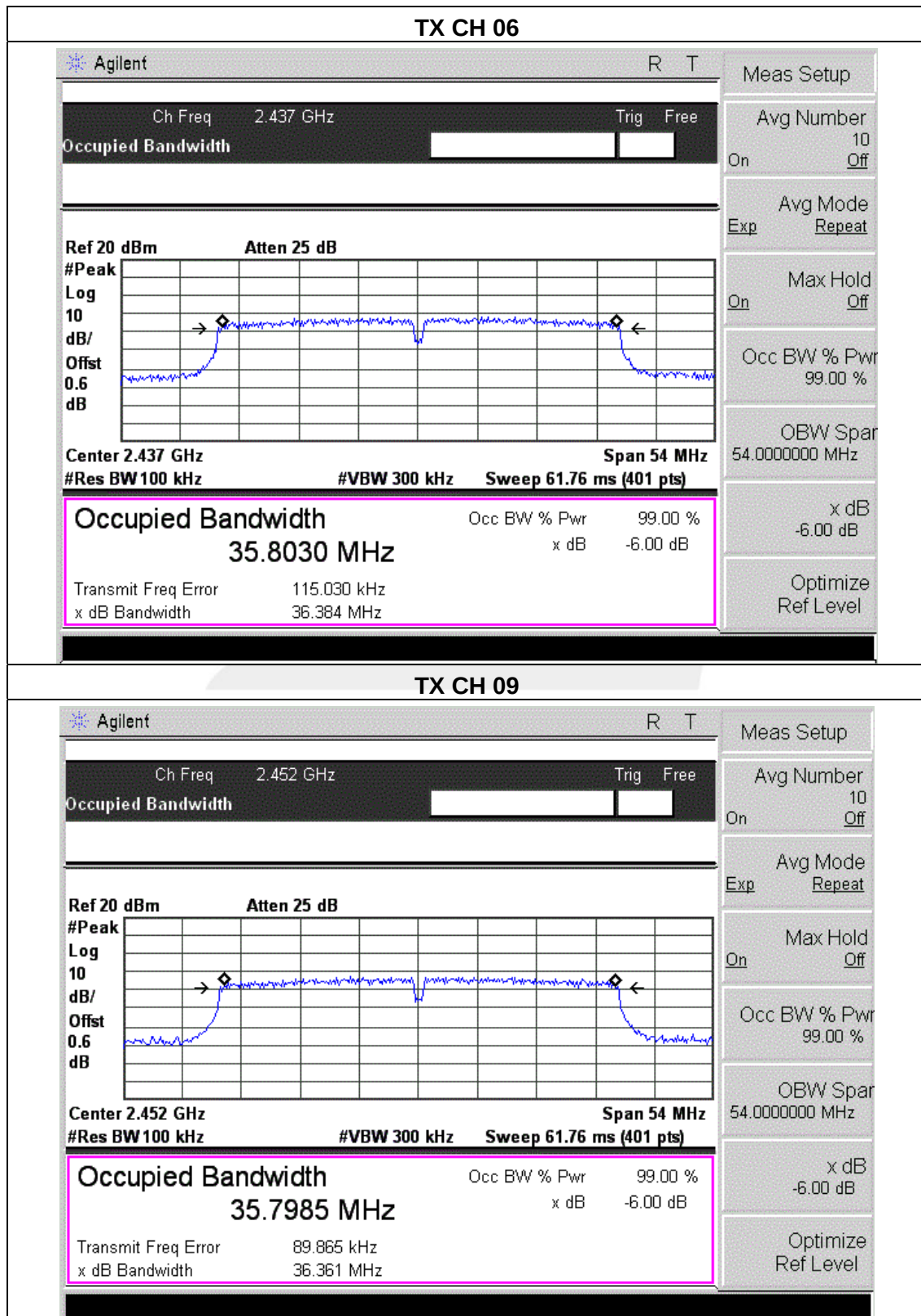




EUT :	3G MOBILE PHONE	Model Name :	U611
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2422 MHz	36.446	>=500KHz	PASS
2437 MHz	36.384	>=500KHz	PASS
2452 MHz	36.364	>=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
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 :	U611
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	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 Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	14.08	30
CH06	2437	14.92	30
CH11	2462	15.42	30

TX 802.11g Mode			
Test Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	11.04	30
CH06	2437	11.92	30
CH11	2462	11.73	30

TX 802.11n20 Mode			
Test Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	10.36	30
CH06	2437	10.09	30
CH11	2462	10.28	30

TX 802.11n40 Mode			
Test Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH03	2422	9.81	30
CH06	2437	9.22	30
CH09	2452	9.69	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.

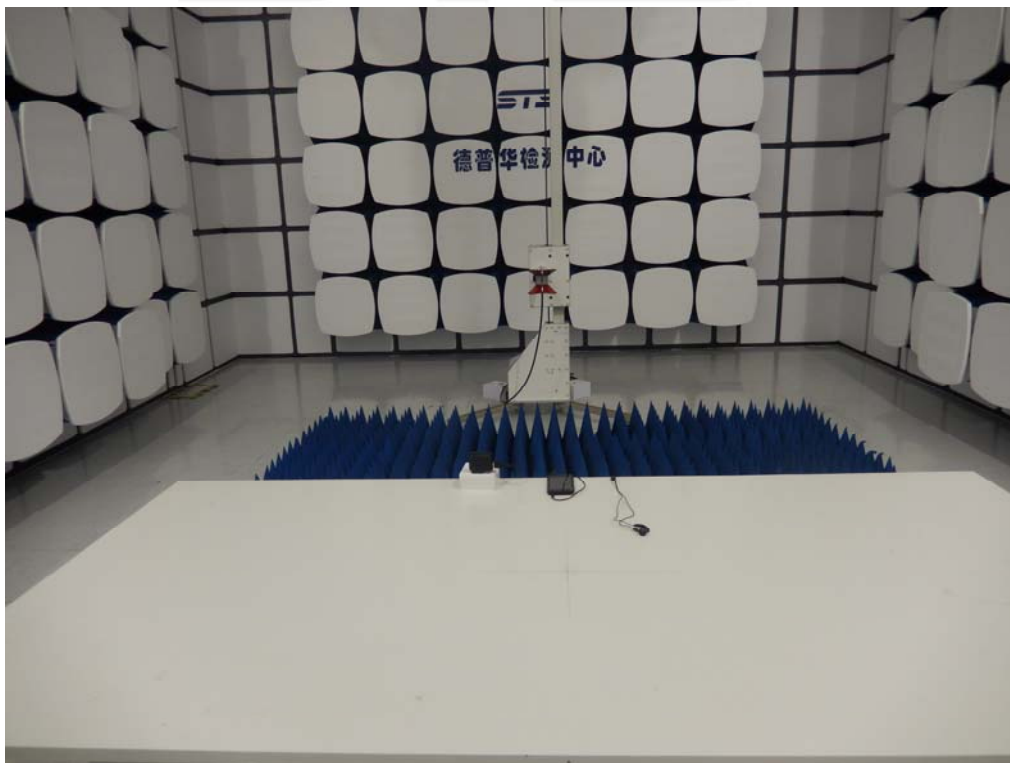
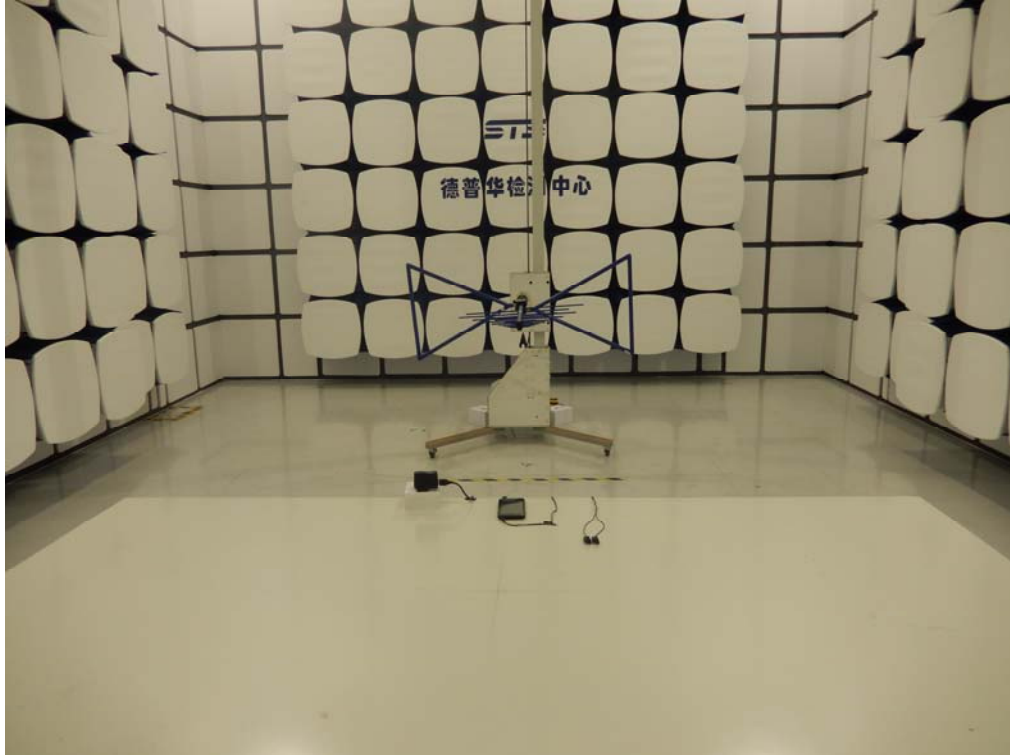
8.2 EUT ANTENNA

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



APPENDIX - PHOTOS OF TEST SETUP

Radiated Measurement Photos



Conducted Measurement Photos

