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FCC TEST REPORT

Report No: STS1502059F03

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.:	U730
Series Model:	N/A
FCC ID:	2ADR3U730
Test Standard:	FCC Part 15.247

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TEST RESULT CERTIFICATION

Applicant's name.....: UNNECTO HOLDING LIMITED
Address: ROOM 1501(445), 15/F., SPA CENTRE, 53-55 LOCKHART ROAD, WANCHAI, HONGKONG
Manufacture's Name: TEM MOBILE LIMITED
Address: NO 1708, CANGSONG BUILDING, TAIRAN 6 ROAD, FUTIAN SHENZHEN, CHINA

Product description

Product name: 3G MOBILE PHONE
Model and/or type reference : U730
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.....: 28 Feb. 2015 ~02 Mar. 2015

Date of Issue.....: 02 Mar. 2015

Test Result.....: **Pass**

Testing Engineer :

(Jin Ming)

Report writing :

(Fern Feng)

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	U730	
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.
	Antenna Gain (dBi)	0 dBi
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,1000mA	
Battery	Rated Voltage: 3.8V capacity : 2000mA	
Hardware version number	C150MB01	
Software versioning number	U730NA_442OM_0206	
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

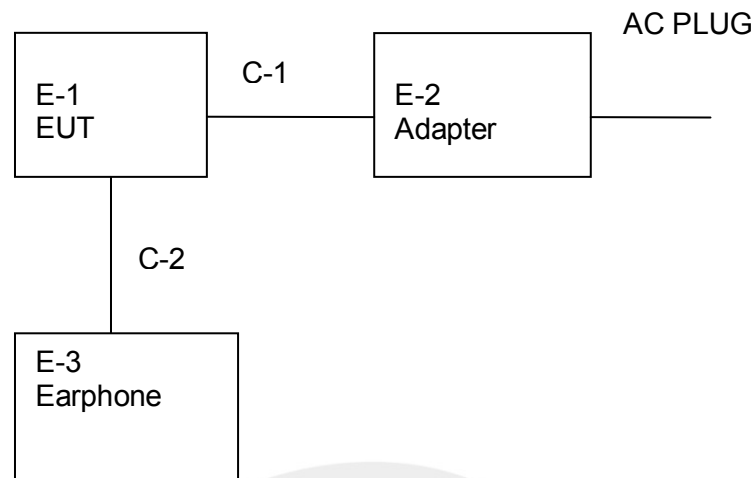
For Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

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	U730	N/A	EUT
E-2	Adapter	unnecto	CU-730	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 setting of the receiver



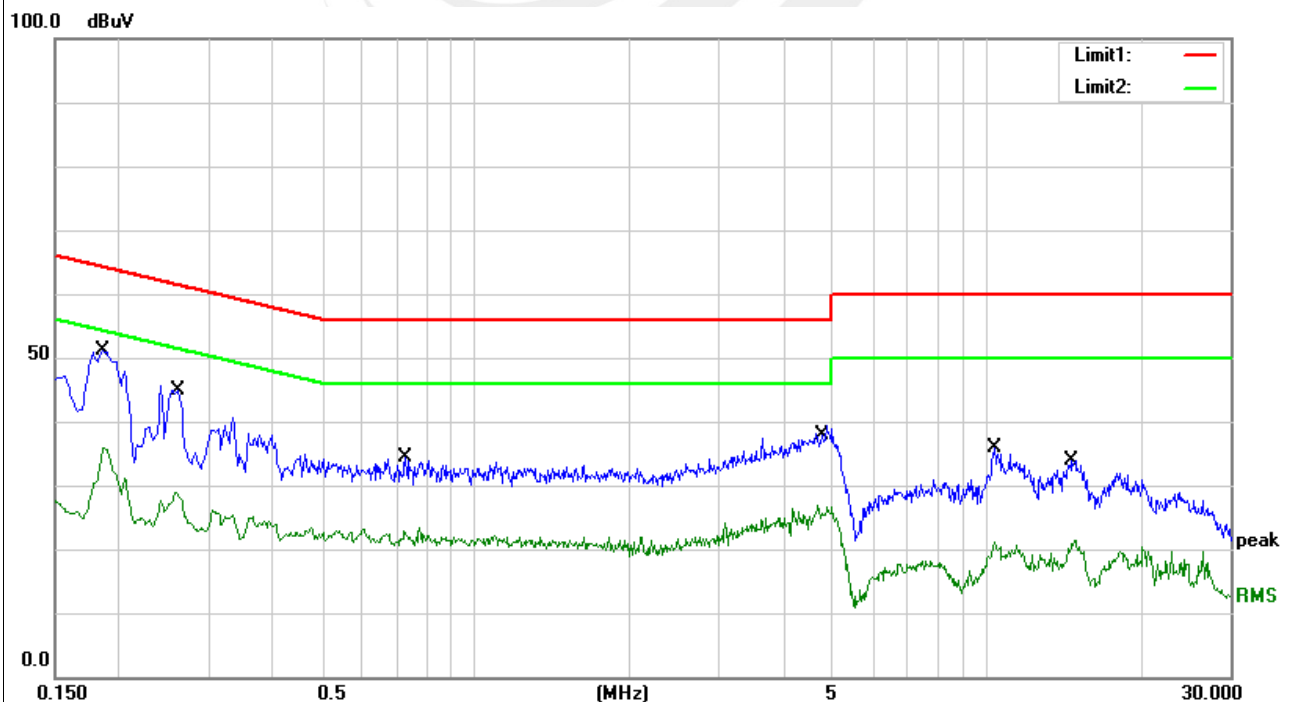
3.1.2 TEST RESULT

EUT :	3G MOBILE PHONE	Model Name :	U730
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	L	Polarization :	Horizontal

Frequency (MHz)	Reading (dBUV)	Correct Factor(dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Remark
0.1840	34.33	11.23	45.56	65.62	-20.06	QP
0.1840	23.58	11.23	34.81	55.62	-20.81	AVG
0.2407	28.04	10.84	38.88	56.00	-17.12	QP
0.2407	17.10	10.84	27.94	46.00	-18.06	AVG
0.7133	18.80	10.83	29.63	56.00	-26.37	QP
0.7133	11.44	10.83	22.27	46.00	-23.73	AVG
4.3270	18.17	10.85	29.02	56.00	-26.98	QP
4.3270	8.58	10.85	19.43	46.00	-26.57	AVG
11.2825	12.79	11.54	24.33	60.00	-35.67	QP
11.2825	4.04	11.54	15.58	50.00	-34.42	AVG
15.0197	19.69	12.47	32.16	60.00	-27.84	QP
15.0197	12.53	12.47	25.00	50.00	-25.00	AVG

Remark:

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



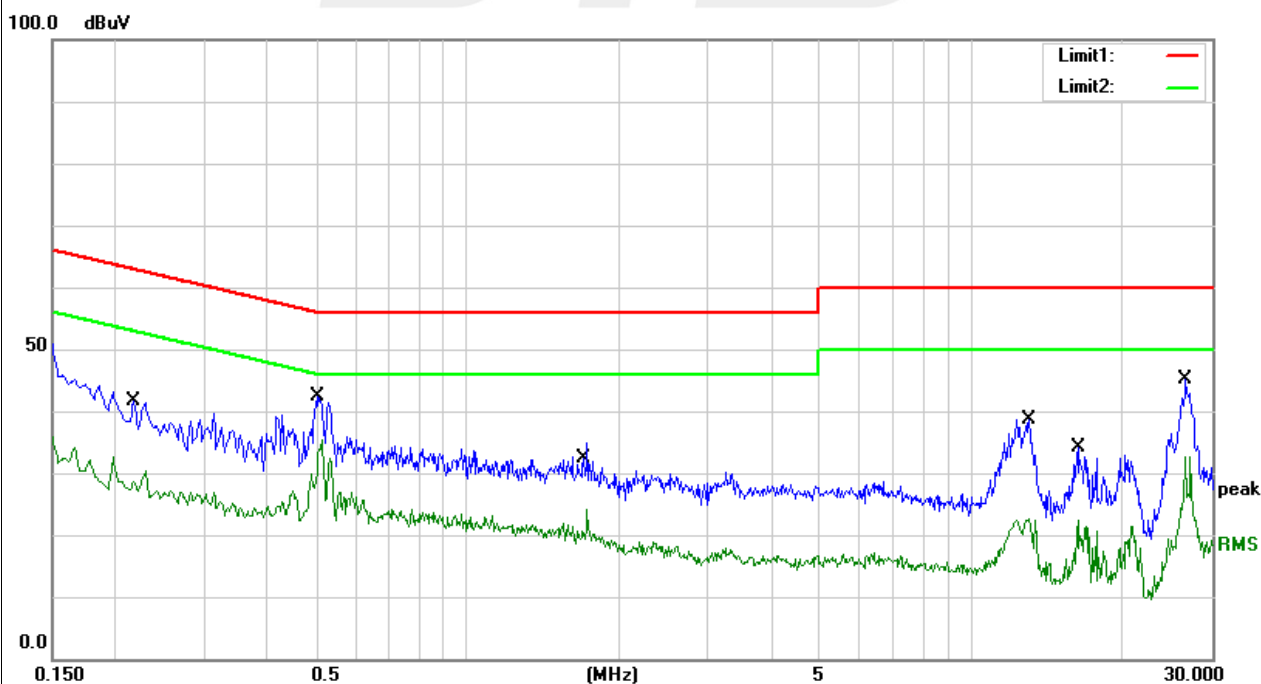


EUT :	3G MOBILE PHONE	Model Name :	U730
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	N	Polarization :	Horizontal

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.1853	24.65	10.84	35.49	62.83	-27.34	QP
0.1853	16.69	10.84	27.53	52.83	-25.30	AVG
0.2597	29.67	10.82	40.49	56.00	-15.51	QP
0.2597	21.09	10.82	31.91	46.00	-14.09	AVG
0.7372	14.36	10.83	25.19	56.00	-30.81	QP
0.7372	8.21	10.83	19.04	46.00	-26.96	AVG
4.8145	19.25	11.60	30.85	60.00	-29.15	QP
4.8145	9.15	11.60	20.75	50.00	-29.25	AVG
10.3834	20.11	11.72	31.83	60.00	-28.17	QP
10.3834	11.13	11.72	22.85	50.00	-27.15	AVG
14.6580	23.69	12.71	36.40	60.00	-23.60	QP
14.6580	14.27	12.71	26.98	50.00	-23.02	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

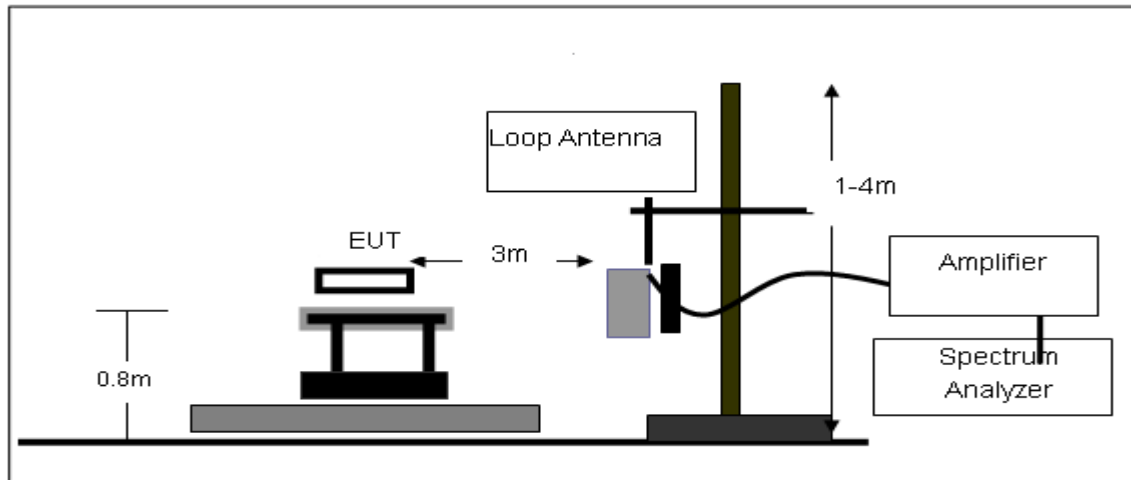
- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 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:

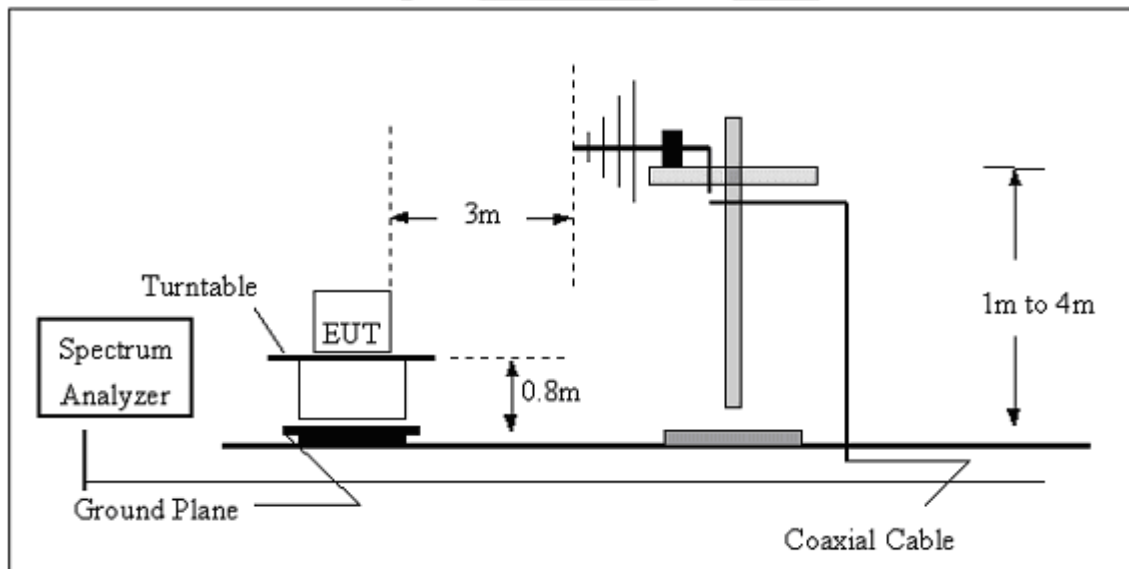
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 TEST SETUP

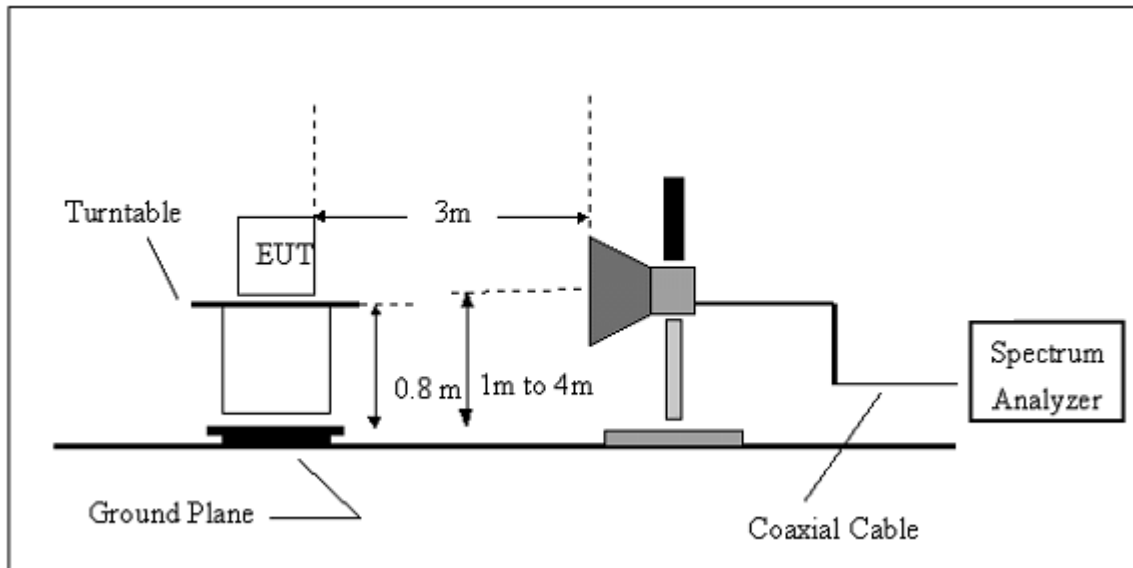
(A) Radiated Emission Test-Up Frequency Below 30MHz



(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. :	U730
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. (MHz)	Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	State 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 = $40 \log (\text{specific distance/test distance})$ (dB);

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



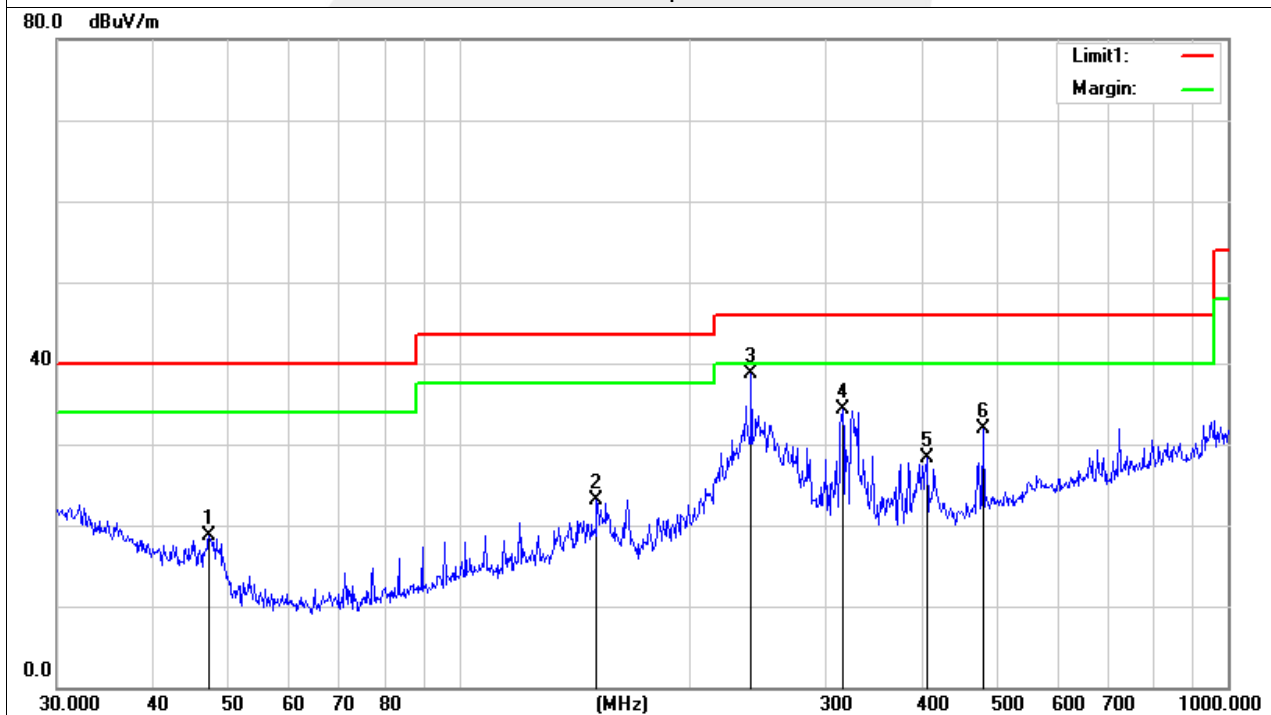
30MHz - 1000MHz

EUT :	3G MOBILE PHONE	Model Name :	U730
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

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
47.3255	9.76	8.92	18.68	40.00	-19	QP
151.0666	12.39	10.70	23.09	43.50	-19.35	QP
239.9873	28.58	10.21	38.79	46.00	-22.83	QP
315.4808	20.82	13.40	34.22	46.00	-15.42	QP
406.0880	12.10	16.18	28.28	46.00	-13.88	QP
480.5276	14.29	17.63	31.92	46.00	-9.93	QP

Remark:

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



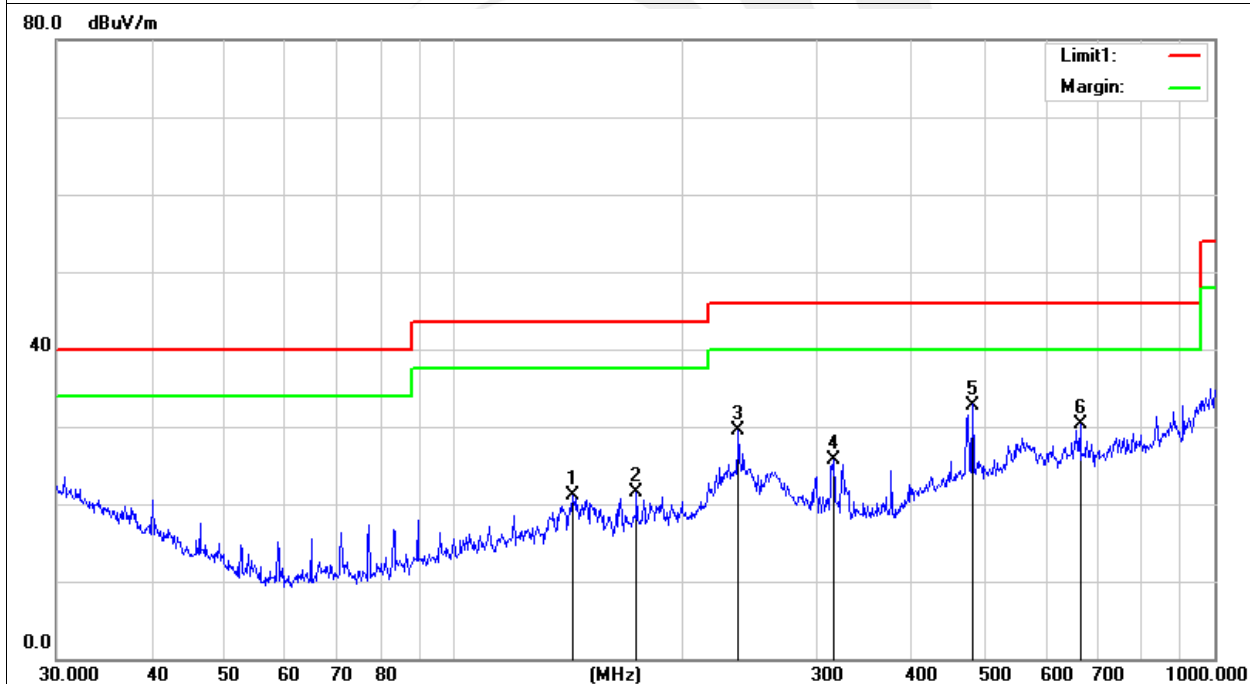


EUT :	3G MOBILE PHONE	Model Name :	U730
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	Link mode	Polarization :	Vertical

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
143.3261	9.90	11.12	21.02	43.50	-22.48	QP
173.8135	12.60	8.98	21.58	43.50	-21.92	QP
236.6447	19.75	9.82	29.57	46.00	-16.43	QP
315.4808	12.25	13.40	25.65	46.00	-20.35	QP
480.5276	15.17	17.63	32.80	46.00	-13.20	QP
665.8035	10.00	20.33	30.33	46.00	-15.67	QP

Remark:

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





Above 1000MHz

EUT :	3G MOBILE PHONE	Model Name :	U730
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
4824.081	46.59	10.47	57.06	74	-16.94	peak
4824.081	31.37	10.47	41.84	54	-12.16	AVG
7236.108	43.57	12.39	55.96	74	-18.04	peak
7236.108	33.92	12.39	46.31	54	-7.69	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U730
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)/241	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.083	49.35	10.47	59.82	74	-14.18	peak
4824.057	33.88	10.47	44.35	54	-9.65	AVG
7236.104	48.36	12.68	61.04	74	-12.96	peak
7236.092	30.91	12.68	43.59	54	-10.41	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U730
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
4874.137	49.25	10.39	59.64	74	-14.36	peak
4874.114	33.82	10.39	44.21	54	-9.79	AVG
7311.102	48.29	12.68	60.97	74	-13.03	peak
7311.091	30.84	12.68	43.52	54	-10.48	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U730
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
4874.051	49.05	10.39	59.44	74	-14.56	peak
4874.100	33.43	10.39	43.82	54	-10.18	AVG
7311.109	48.47	12.68	61.15	74	-12.85	peak
7311.098	30.83	12.68	43.51	54	-10.49	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U730
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
4924.134	49.16	10.35	59.51	74	-14.49	peak
4924.110	33.85	10.35	44.2	54	-9.8	AVG
7386.090	48.26	12.68	60.94	74	-13.06	peak
7386.064	30.74	12.68	43.42	54	-10.58	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U730
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
4924.133	49.35	10.37	59.72	74	-14.28	peak
4924.043	33.55	10.37	43.92	54	-10.08	AVG
7386.098	48.52	12.64	61.16	74	-12.84	peak
7386.118	30.38	12.64	43.02	54	-10.98	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U730
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
4824.137	46.28	10.49	56.77	74	-17.23	peak
4824.111	36.51	10.49	47	54	-7	AVG
7236.052	42.32	12.36	54.68	74	-19.32	peak
7236.044	28.64	12.36	41	54	-13	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U730
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
4824.044	46.08	10.49	56.57	74	-17.43	peak
4824.112	36.67	10.49	47.16	54	-6.84	AVG
7236.080	42.35	12.36	54.71	74	-19.29	peak
7236.110	28.22	12.36	40.58	54	-13.42	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U730
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.054	45.58	10.4	55.98	74	-18.02	peak
4874.104	26.56	10.4	36.96	54	-17.04	AVG
7311.123	44.35	12.75	57.1	74	-16.9	peak
7311.151	25.85	12.75	38.6	54	-15.4	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	3G MOBILE PHONE	Model Name :	U730
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.129	48.65	10.4	59.05	74	-14.95	peak
4874.073	35.34	10.4	45.74	54	-8.26	AVG
7311.062	48.79	12.75	61.54	74	-12.46	peak
7311.080	33.83	12.75	46.58	54	-7.42	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	3G MOBILE PHONE	Model Name :	U730
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.071	49.54	10.39	59.93	74	-14.07	peak
4924.062	33.46	10.39	43.85	54	-10.15	AVG
7386.105	48.22	12.68	60.9	74	-13.1	peak
7386.061	30.52	12.68	43.2	54	-10.8	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	3G MOBILE PHONE	Model Name :	U730
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4924.094	46.57	10.39	56.96	74	-17.04	peak
4924.114	34.96	10.39	45.35	54	-8.65	AVG
7386.051	46.44	12.68	59.12	74	-14.88	peak
7386.053	33.98	12.68	46.66	54	-7.34	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	3G MOBILE PHONE	Model Name :	U730
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
4824.137	46.59	10.44	57.03	74	-16.97	peak
4824.065	36.51	10.44	46.95	54	-7.05	AVG
7236.111	42.34	12.39	54.73	74	-19.27	peak
7236.077	28.49	12.39	40.88	54	-13.12	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	3G MOBILE PHONE	Model Name :	U730
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
4824.134	46.35	10.44	56.79	74	-17.21	peak
4824.069	37.89	10.44	48.33	54	-5.67	AVG
7236.081	51.51	12.39	63.9	74	-10.1	peak
7236.057	31.61	12.39	44	54	-10	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	3G MOBILE PHONE	Model Name :	U730
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.133	51.46	10.4	61.86	74	-12.14	peak
4874.126	32.35	10.4	42.75	54	-11.25	AVG
7311.086	48.82	12.75	61.57	74	-12.43	peak
7311.127	27.93	12.75	40.68	54	-13.32	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U730
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.114	48.26	10.4	58.66	74	-15.34	peak
4874.068	32.14	10.4	42.54	54	-11.46	AVG
7311.097	47.42	12.75	60.17	74	-13.83	peak
7311.164	26.23	12.75	38.98	54	-15.02	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U730
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 (dBμV)	Factor (dB)	Emission (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.076	50.17	10.39	60.56	74	-13.44	peak
4924.107	35.15	10.39	45.54	54	-8.46	AVG
7386.173	43.56	12.68	56.24	74	-17.76	peak
7386.157	31.33	12.68	44.01	54	-9.99	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	3G MOBILE PHONE	Model Name :	U730
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
4924.090	51.22	10.39	61.61	74	-12.39	peak
4924.093	35.69	10.39	46.08	54	-7.92	AVG
7386.142	42.38	12.68	55.06	74	-18.94	peak
7386.154	28.54	12.68	41.22	54	-12.78	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	3G MOBILE PHONE	Model Name :	U730
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
4844.079	47.74	10.5	58.24	74	-15.76	peak
4844.060	31.69	10.5	42.19	54	-11.81	AVG
7266.219	48.42	12.5	60.92	74	-13.08	peak
7266.318	31.18	12.5	43.68	54	-10.32	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U730
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
4844.252	47.04	10.5	57.54	74	-16.46	peak
4844.250	30.69	10.5	41.19	54	-12.81	AVG
7266.159	48.47	12.5	60.97	74	-13.03	peak
7266.214	29.48	12.5	41.98	54	-12.02	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U730
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
4874.165	48.93	10.4	59.33	74	-14.67	peak
4874.216	33.63	10.4	44.03	54	-9.97	AVG
7311.119	47.54	12.75	60.29	74	-13.71	peak
7311.151	32.64	12.75	45.39	54	-8.61	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U730
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
4874.501	47.33	10.4	57.73	74	-16.27	peak
4874.498	34.49	10.4	44.89	54	-9.11	AVG
7311.559	46.73	12.75	59.48	74	-14.52	peak
7311.624	35.38	12.75	48.13	54	-5.87	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U730
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
4904.292	49.87	10.29	60.16	74	-13.84	peak
4904.305	35.59	10.29	45.88	54	-8.12	AVG
7356.237	48.49	12.79	61.28	74	-12.72	peak
7356.224	31.54	12.79	44.33	54	-9.67	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	3G MOBILE PHONE	Model Name :	U730
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
4904.155	50.49	10.29	60.78	74	-13.22	peak
4904.150	34.46	10.29	44.75	54	-9.25	AVG
7356.368	48.62	12.79	61.41	74	-12.59	peak
7356.362	32.79	12.79	45.58	54	-8.42	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



3.2.6 TEST RESULTS (BAND EDGE)

EUT :	3G MOBILE PHONE	Model Name :	U730
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
2399.900	79.51	-13	66.51	74	-7.49	peak
2399.900	61.46	-13	48.46	54	-5.54	AVG
2400.000	82.25	-12.99	69.26	74	-4.41	peak
2400.000	61.34	-12.99	48.35	54	-5.74	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	3G MOBILE PHONE	Model Name :	U730
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
2399.900	81.15	-13	68.15	74	-5.85	peak
2399.900	61.52	-13	48.52	54	-5.48	AVG
2400.000	78.42	-12.99	65.43	74	-8.57	peak
2400.000	59.49	-12.99	46.5	54	-7.5	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	3G MOBILE PHONE	Model Name :	U730
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
2483.500	78.34	-12.78	65.56	74	-8.44	peak
2483.500	60.49	-12.78	47.71	54	-6.29	AVG
2483.600	79.51	-12.77	66.74	74	-7.26	peak
2483.600	60.28	-12.78	47.5	54	-6.5	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U730
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 (dBμV)	Factor (dB)	Emission (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	77.19	-12.78	64.41	74	-9.59	peak
2483.500	60.72	-12.78	47.94	54	-6.06	AVG
2483.600	78.54	-12.77	65.77	74	-8.23	peak
2483.600	59.43	-12.77	46.66	54	-7.34	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U730
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 (dBμV)	Factor (dB)	Emission (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	76.25	-13	63.25	74	-10.75	peak
2399.900	59.44	-13	46.44	54	-7.56	AVG
2400.000	78.37	-12.99	65.38	74	-8.62	peak
2400.000	58.25	-12.99	45.26	54	-8.74	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U730
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
2399.900	77.95	-13	64.95	74	-9.05	peak
2399.900	60.27	-13	47.27	54	-6.73	AVG
2400.000	78.94	-12.99	65.95	74	-8.05	peak
2400.000	62.13	-12.99	49.14	54	-4.86	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U730
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	77.11	-12.78	64.33	74	-9.67	peak
2483.500	63.25	-12.78	50.47	54	-3.53	AVG
2483.600	76.46	-12.77	63.69	74	-10.31	peak
2483.600	61.42	-12.77	48.65	54	-5.35	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U730
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	76.32	-12.78	63.54	74	-10.46	peak
2483.500	60.43	-12.78	47.65	54	-6.35	AVG
2483.600	75.71	-12.77	62.94	74	-11.06	peak
2483.600	61.39	-12.77	48.62	54	-5.38	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U730
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
2399.900	76.16	-13	63.16	74	-10.84	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	58.62	-12.99	45.63	54	-8.37	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	3G MOBILE PHONE	Model Name :	U730
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 (dBμV)	Factor (dB)	Emission (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	77.83	-13	64.83	74	-9.17	peak
2399.900	58.34	-13	45.34	54	-8.66	AVG
2400.000	76.46	-12.99	63.47	74	-10.53	peak
2400.000	59.41	-12.99	46.42	54	-7.58	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	3G MOBILE PHONE	Model Name :	U730
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	77.49	-12.78	64.71	74	-9.29	peak
2483.500	56.75	-12.78	43.97	54	-10.03	AVG
2483.600	75.22	-12.77	62.45	74	-11.55	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 :	U730
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	73.27	-12.78	60.45	74	-13.55	peak
2483.500	59.54	-12.78	46.84	54	-7.16	AVG
2483.600	73.69	-12.78	60.45	74	-13.55	peak
2483.600	59.16	-12.78	46.84	54	-7.16	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U730
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2399.900	77.89	-13	64.89	74	-9.11	peak
2399.900	58.21	-13	45.21	54	-8.79	AVG
2400.000	77.83	-12.99	64.84	74	-9.16	peak
2400.000	59.25	-12.99	46.26	54	-7.74	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U730
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2399.900	80.11	-13.02	67.09	74	-6.91	peak
2399.900	55.08	-13.02	42.06	54	-11.94	AVG
2400.000	78.39	-12.99	65.4	74	-8.6	peak
2400.000	55.36	-12.99	42.37	54	-11.63	AVG

Remark:

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



EUT :	3G MOBILE PHONE	Model Name :	U730
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
2483.500	76.72	-12.73	63.99	74	-10.01	peak
2483.500	59.14	-12.73	46.41	54	-7.59	AVG
2483.600	77.85	-12.77	65.08	74	-8.92	peak
2483.600	61.37	-12.77	48.6	54	-5.4	AVG

Remark:

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

EUT :	3G MOBILE PHONE	Model Name :	U730
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)	
2483.500	77.87	-12.75	65.12	74	-8.88	peak
2483.500	60.42	-12.75	47.67	54	-6.33	AVG
2483.600	78.12	-12.78	65.34	74	-8.66	peak
2483.600	59.39	-12.78	46.61	54	-7.39	AVG

Remark:

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

Low measurement frequencies is range from 2310 to 2400 MHz, high measurement frequencies is range from 2483.5 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2310-2400 MHz and 2483.5-2500 MHz.

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

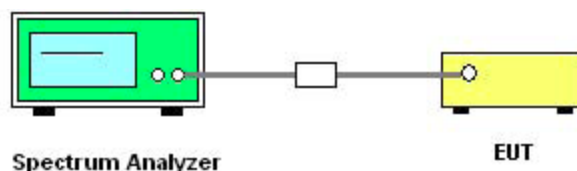
For Band edge

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.

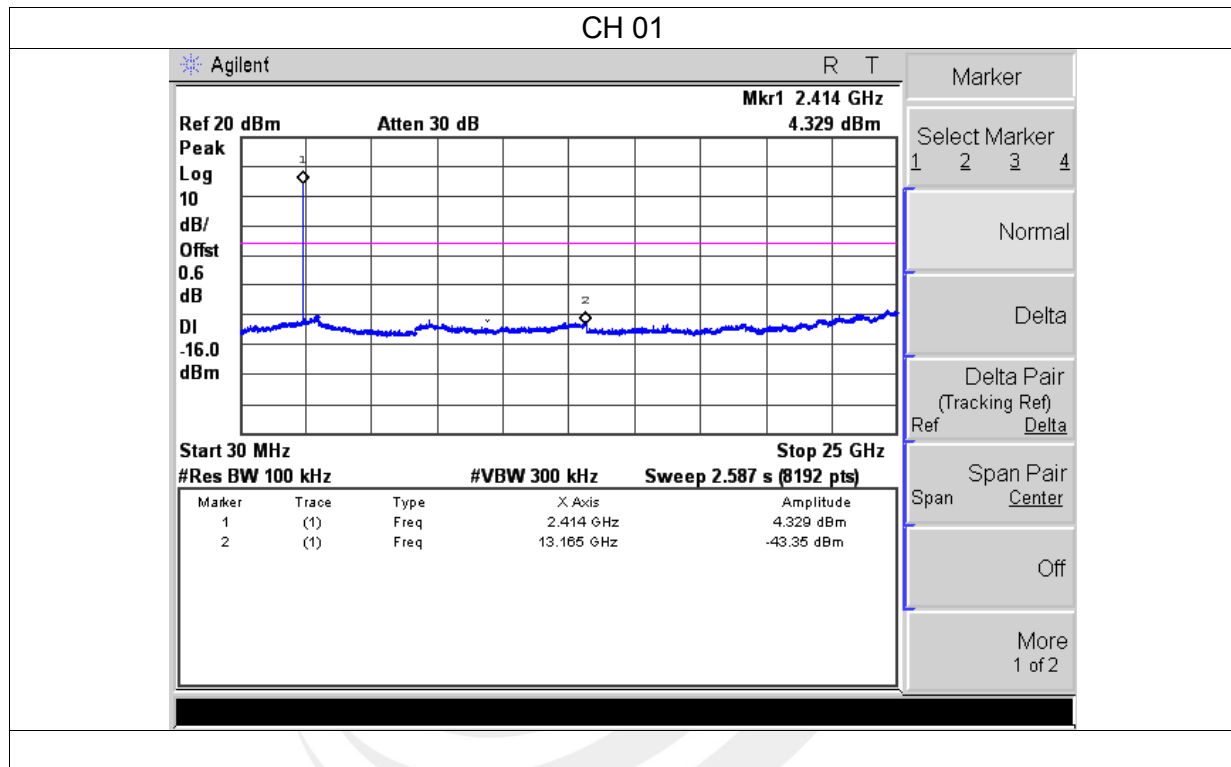
4.5 EUT OPERATION CONDITIONS

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.



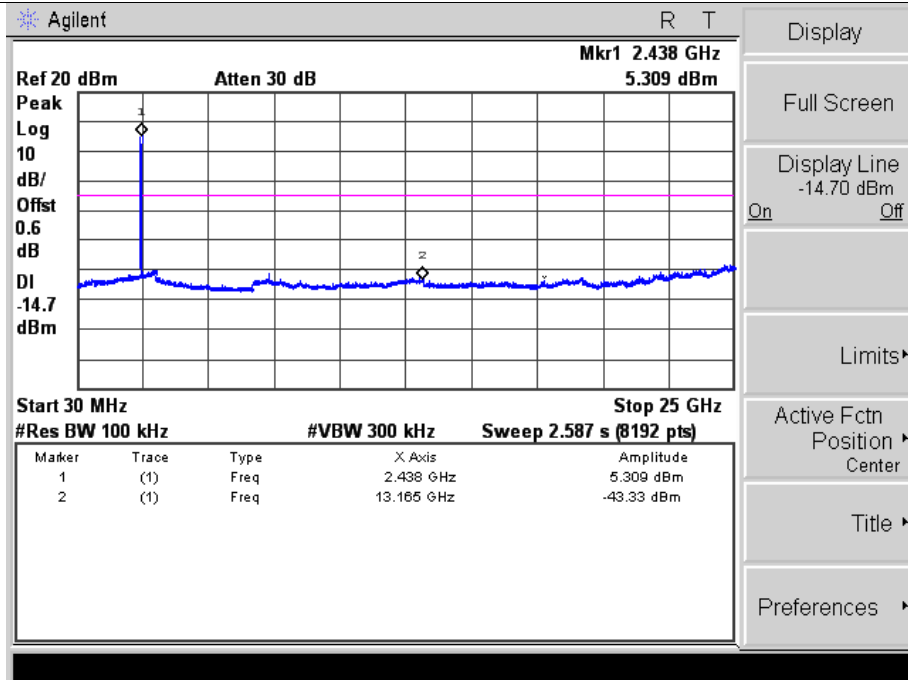
4.6 TEST RESULTS

EUT :	3G MOBILE PHONE	Model Name :	U730
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		

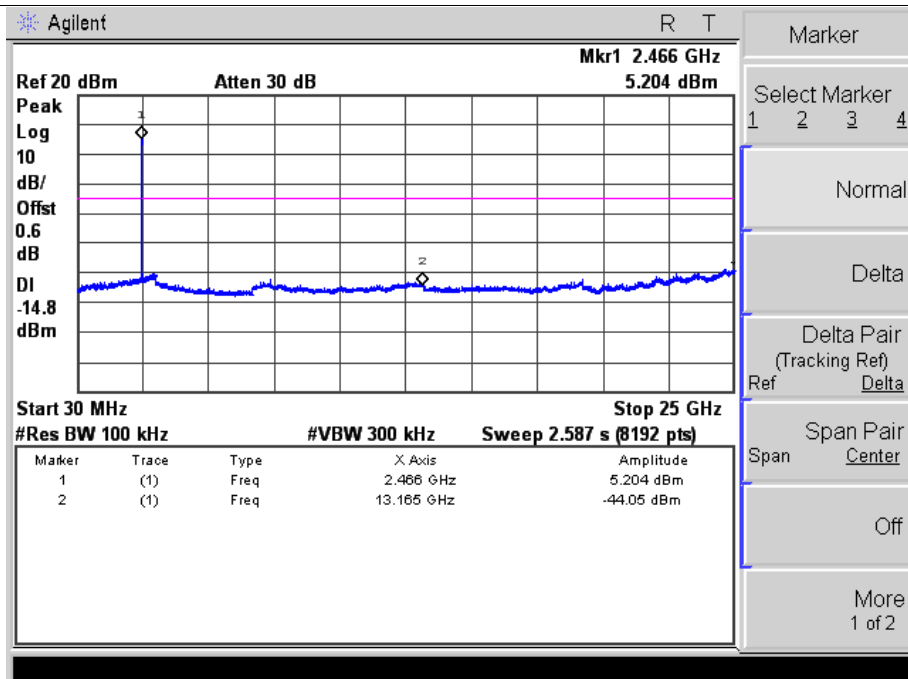




CH 06

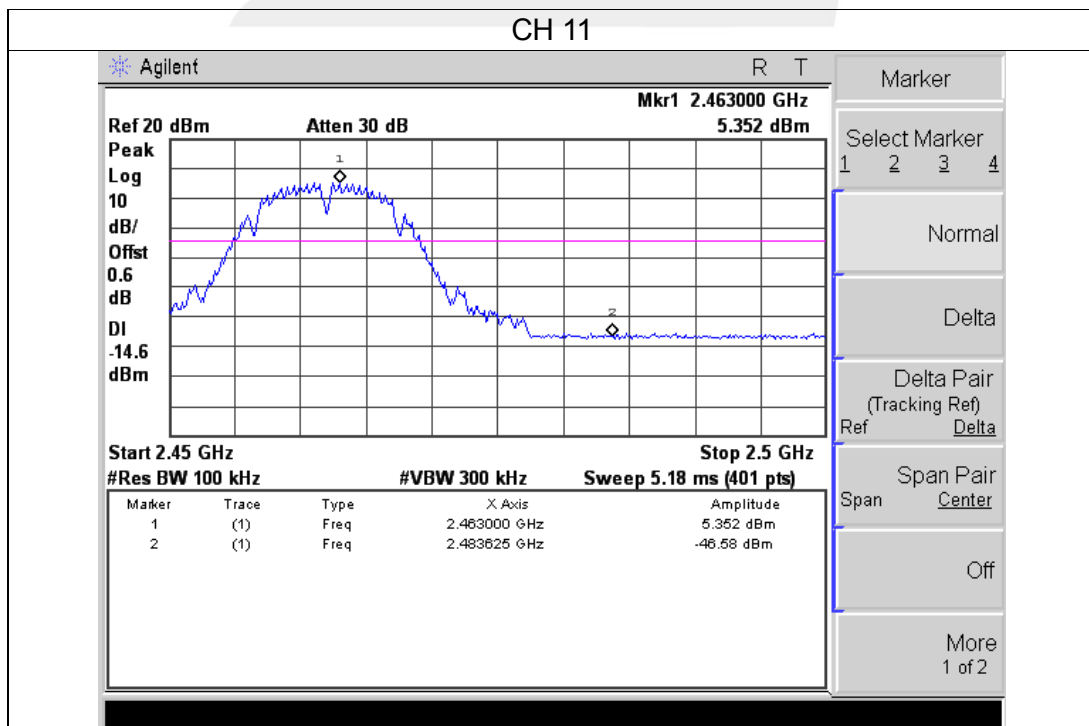
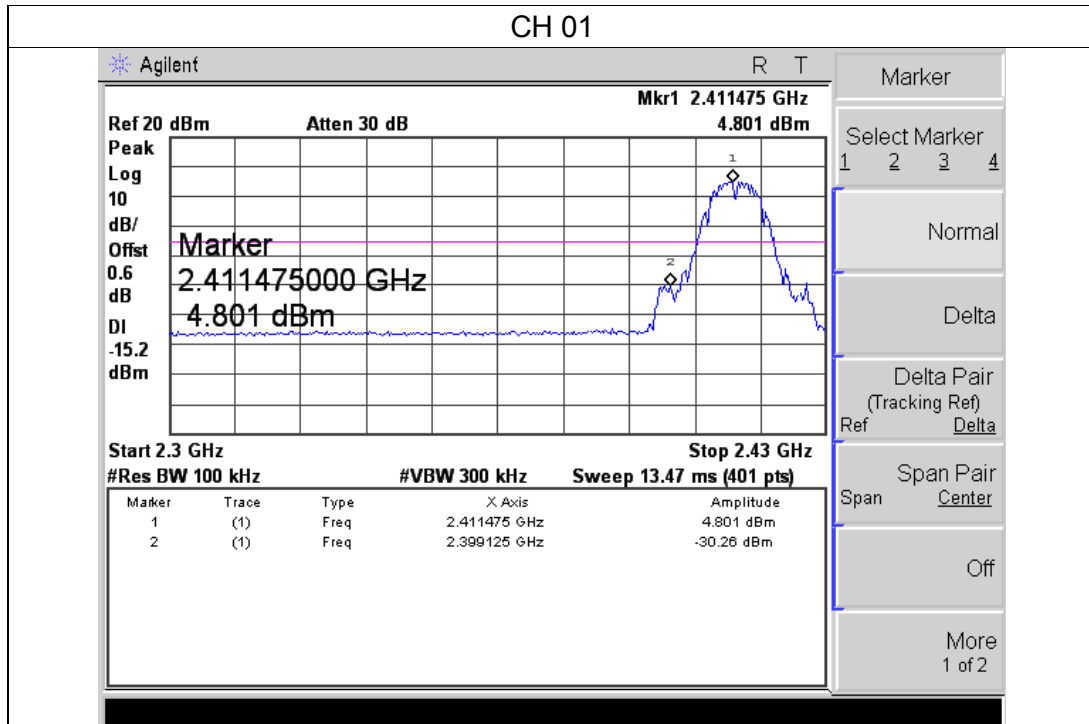


CH 11



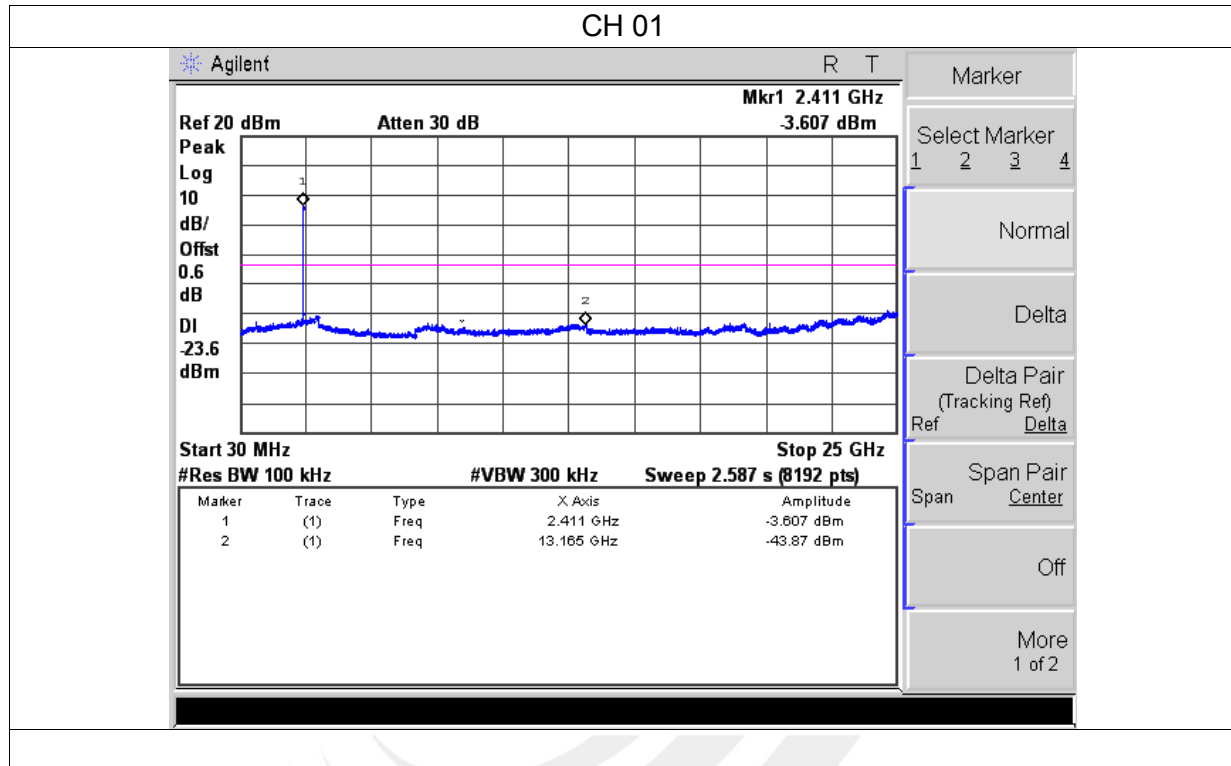


Band edge



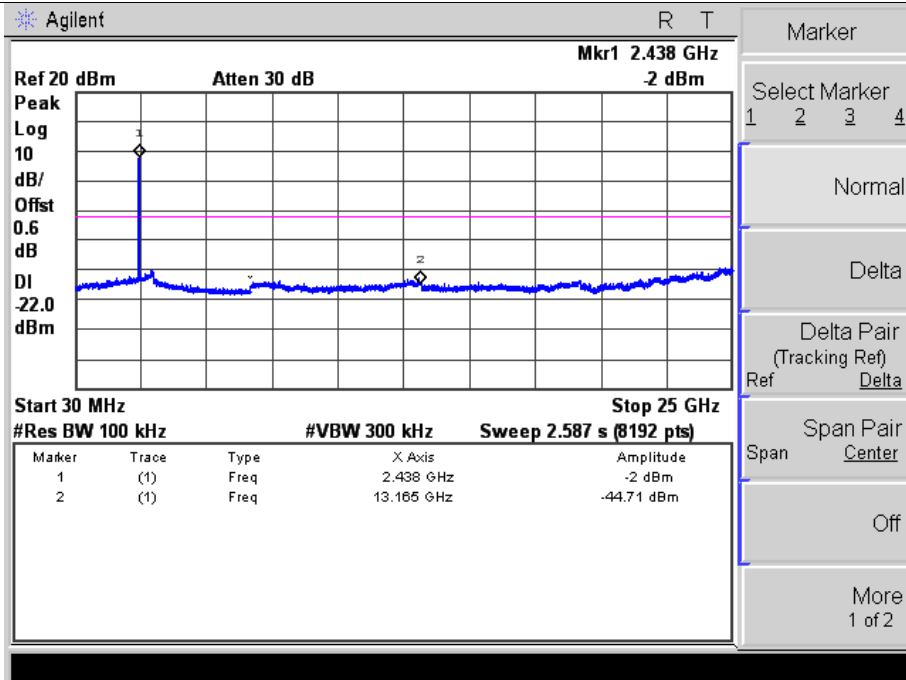


EUT :	3G MOBILE PHONE	Model Name :	U730
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

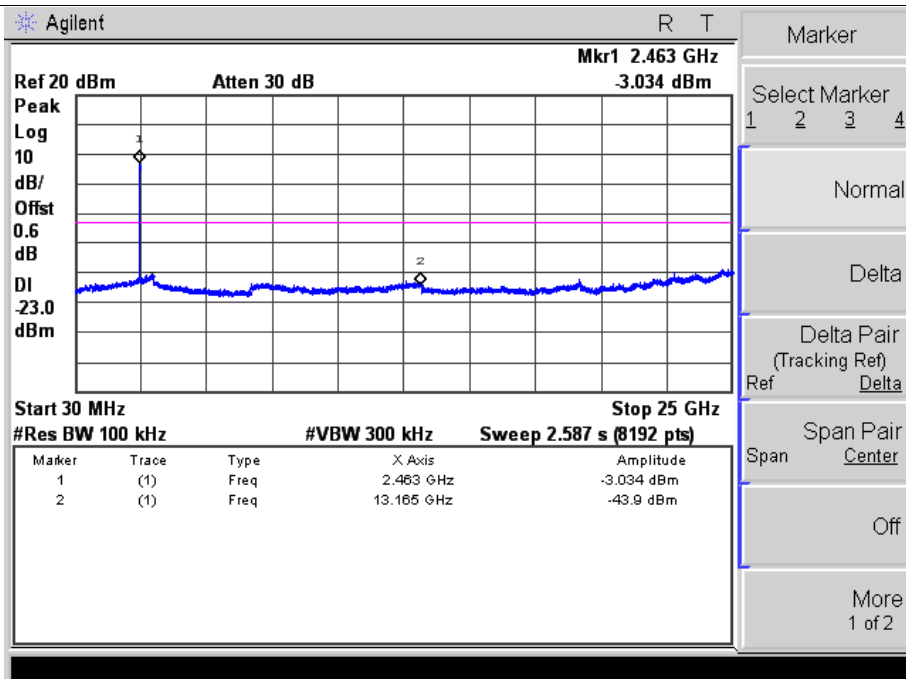




CH 06

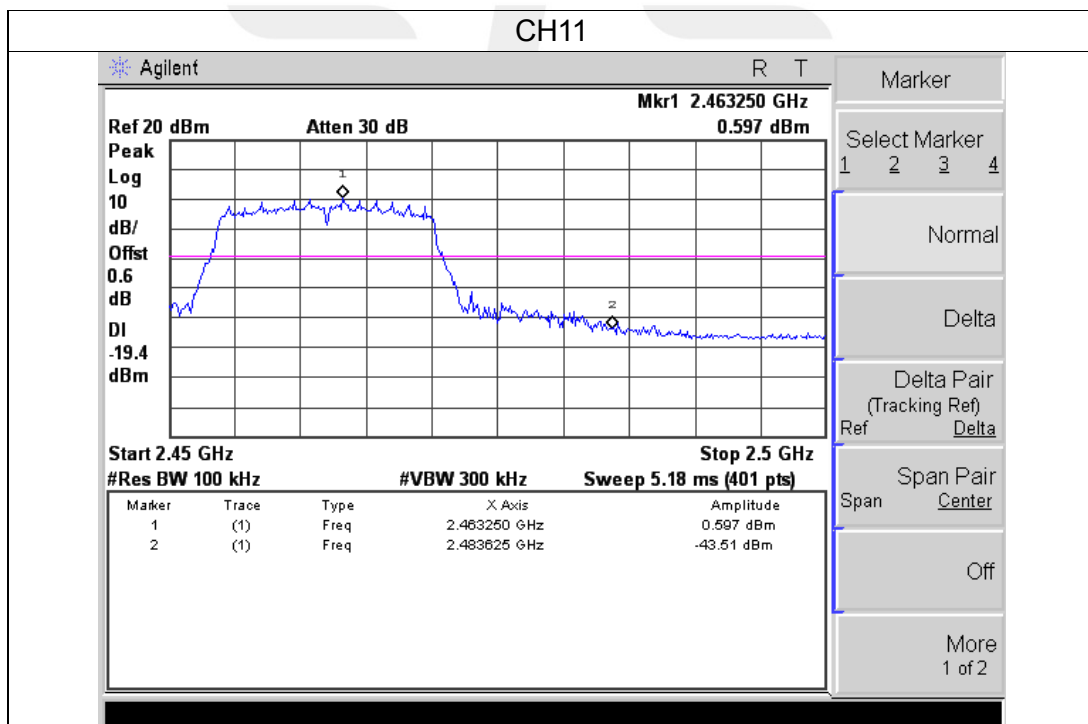
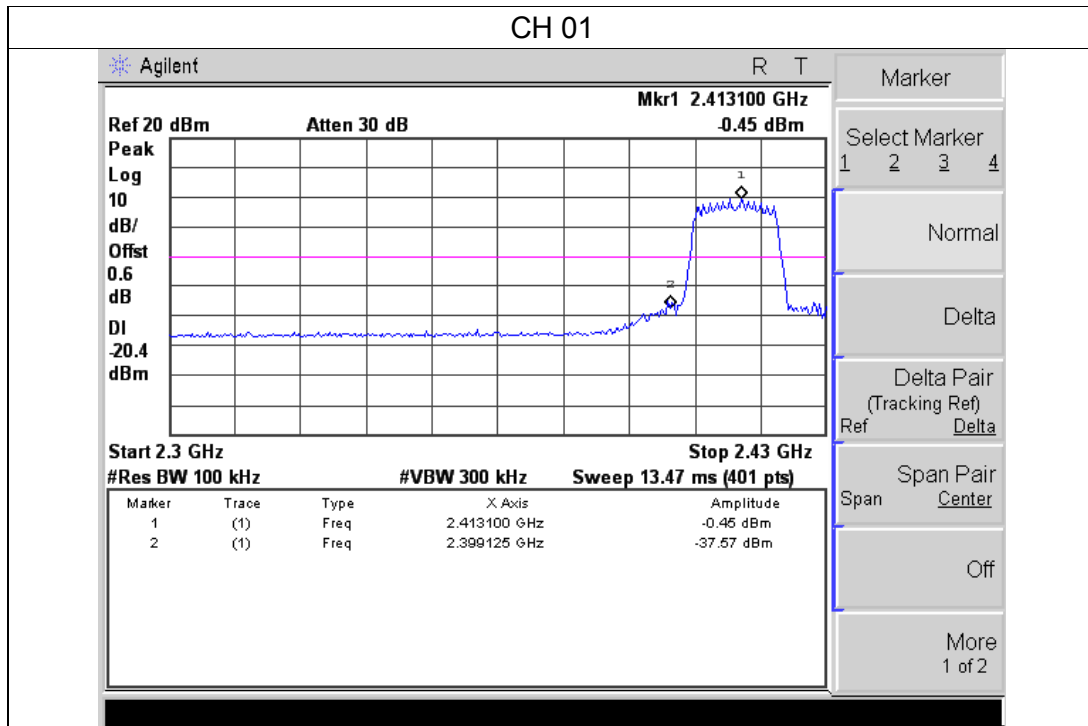


CH 11



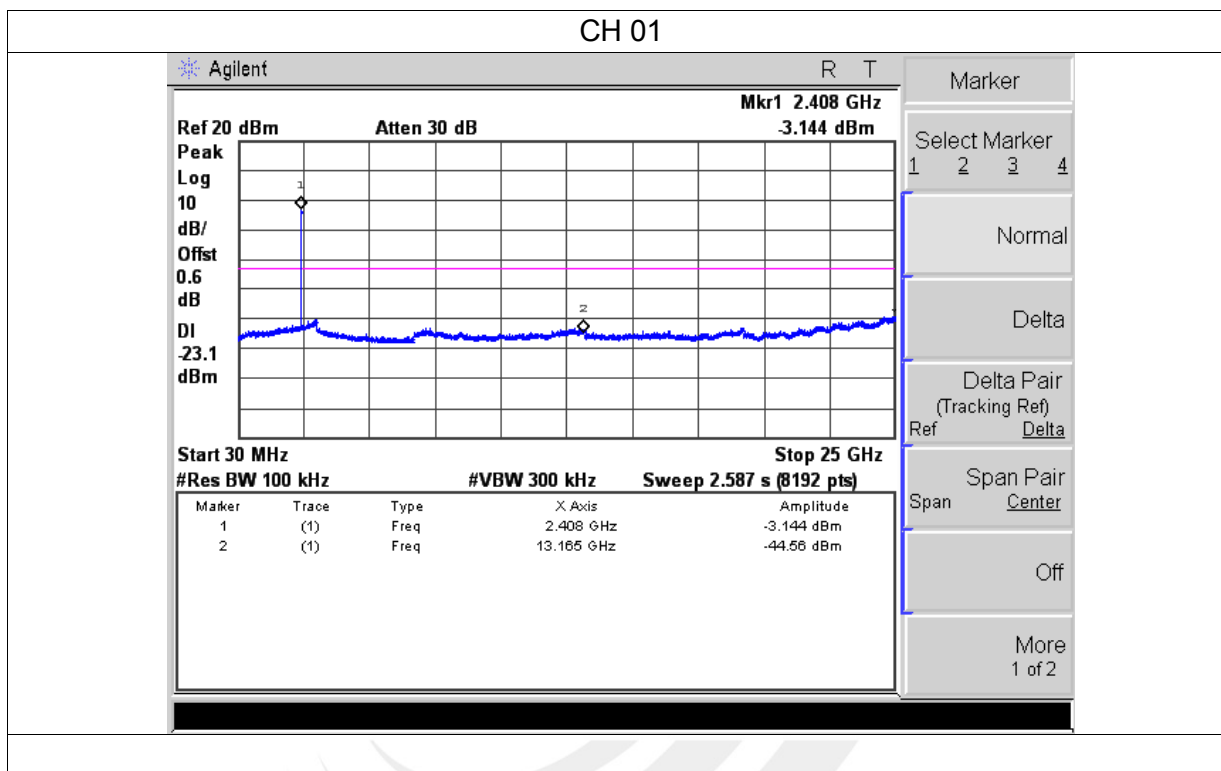


Band edge



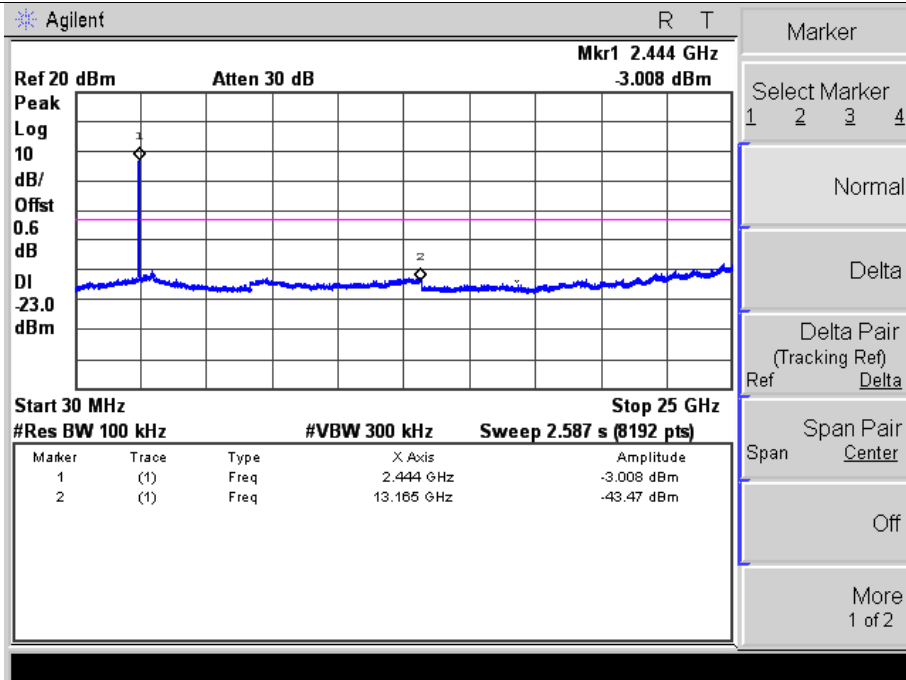


EUT :	3G MOBILE PHONE	Model Name :	U730
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

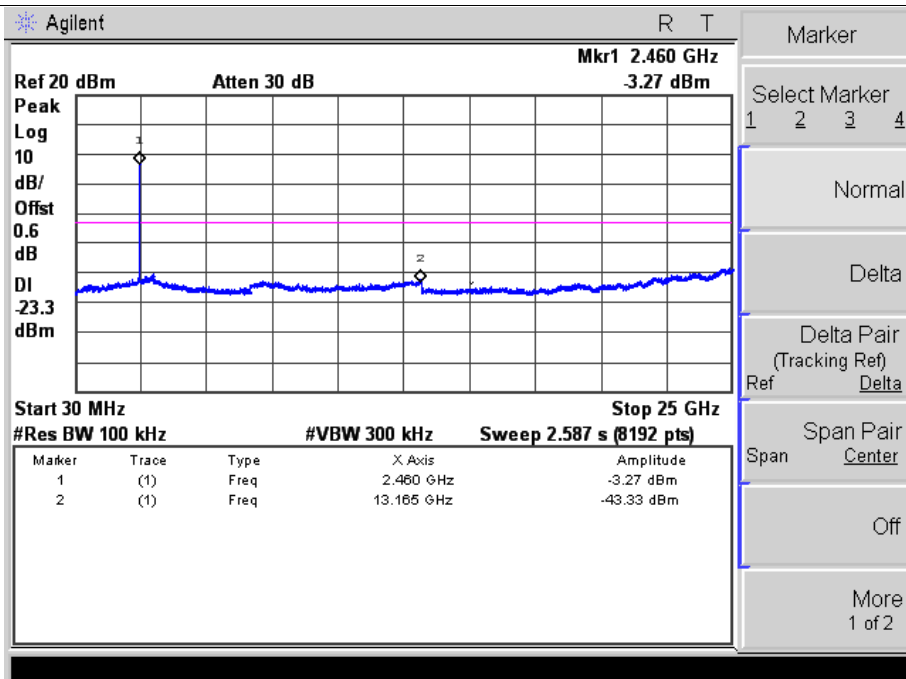




CH 06

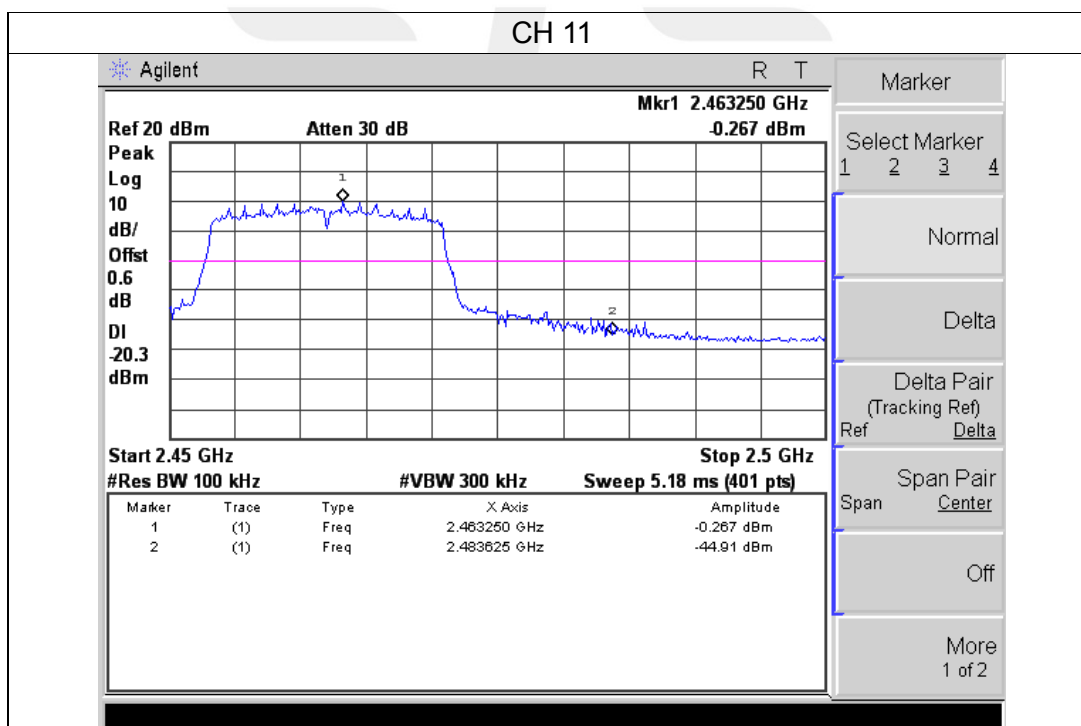
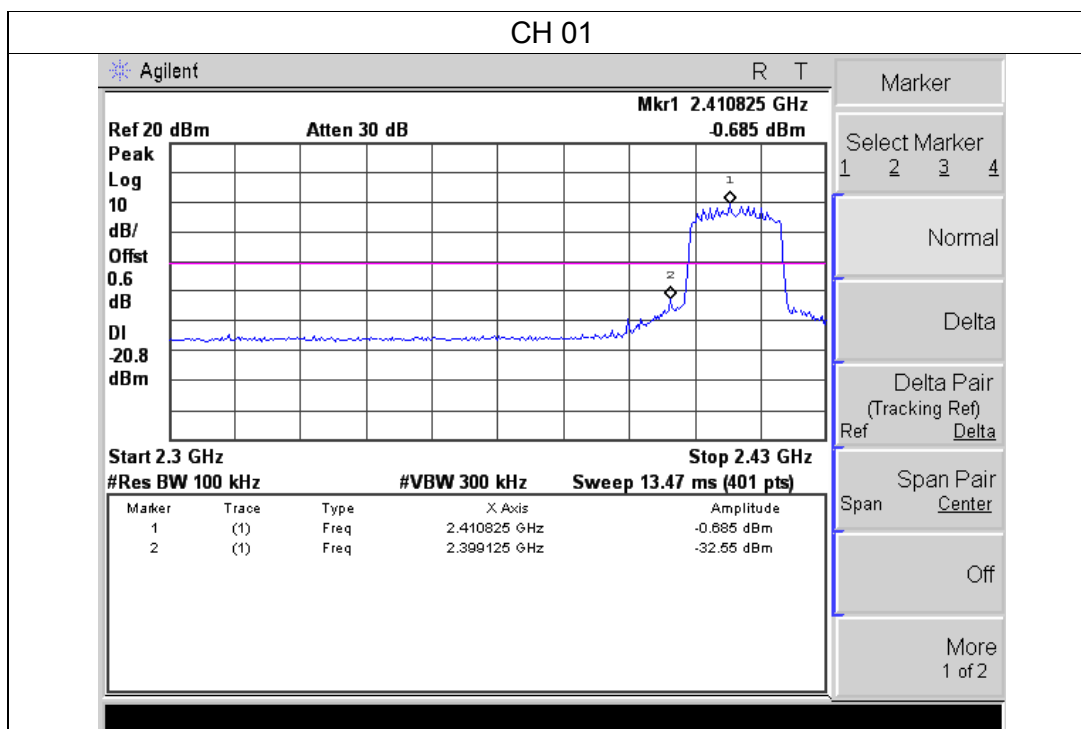


CH 11



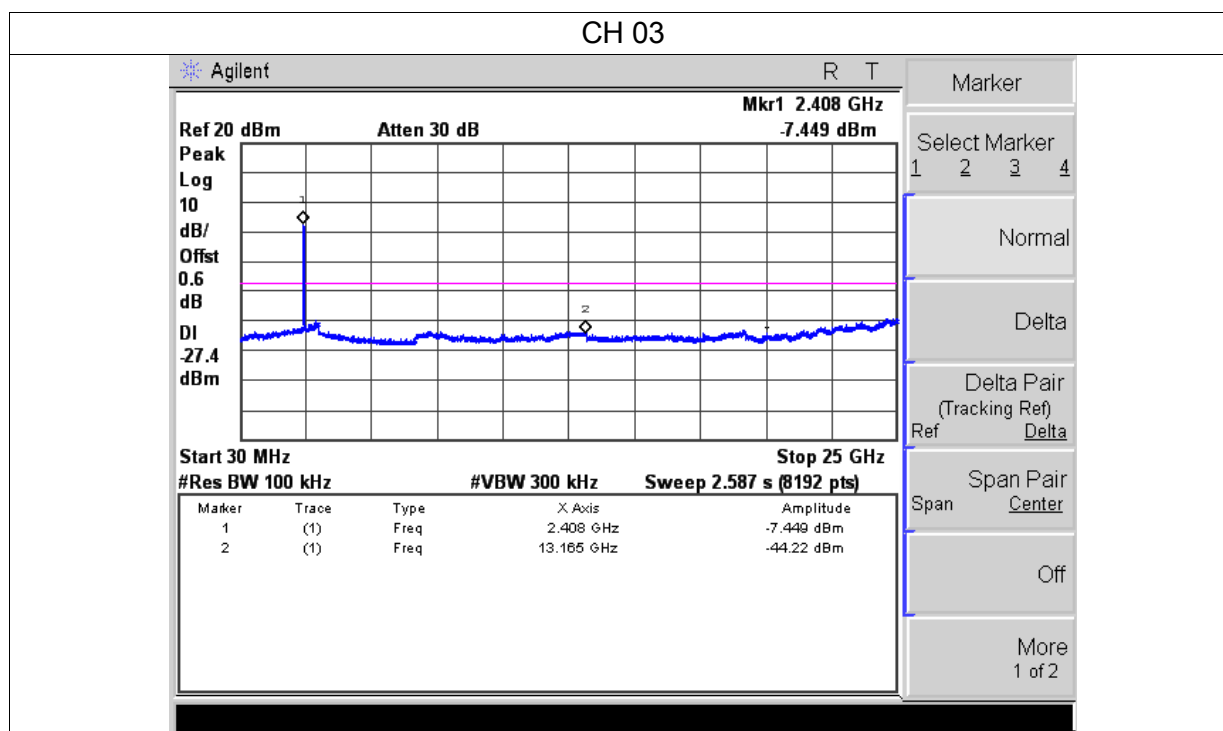


Band edge



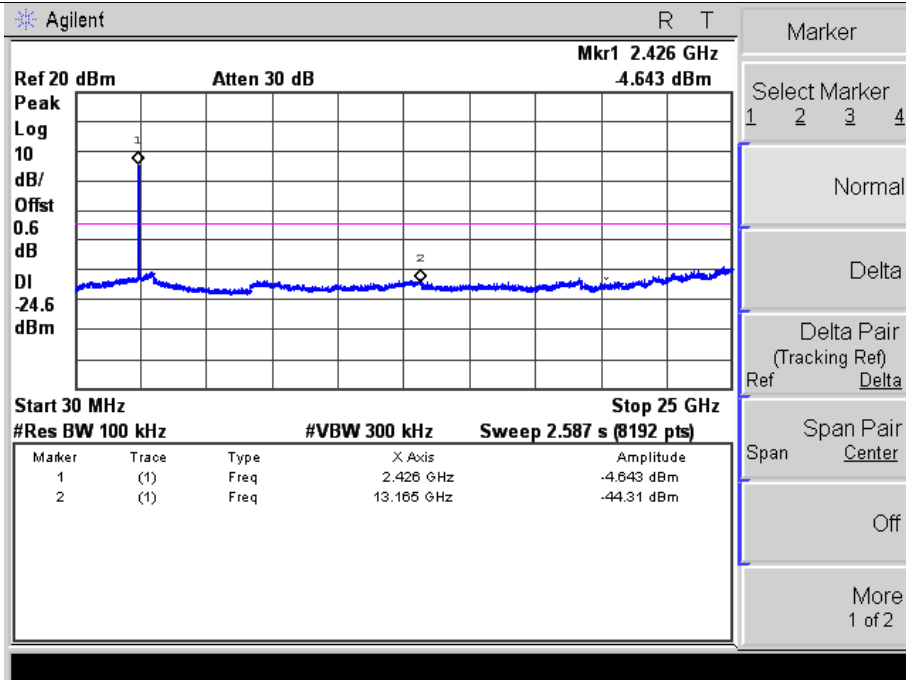


EUT :	3G MOBILE PHONE	Model Name :	U730
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

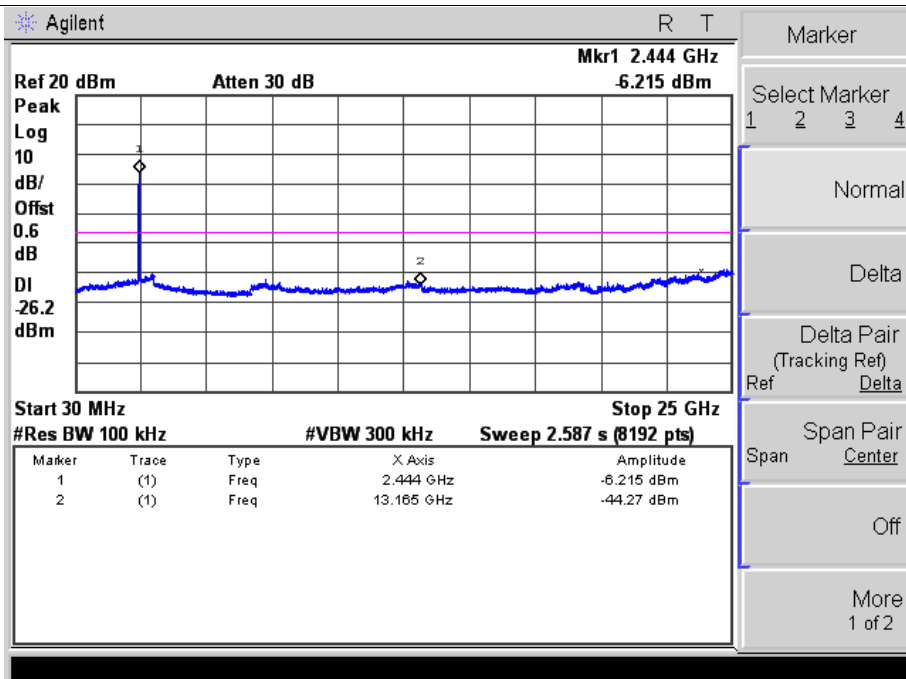




CH06

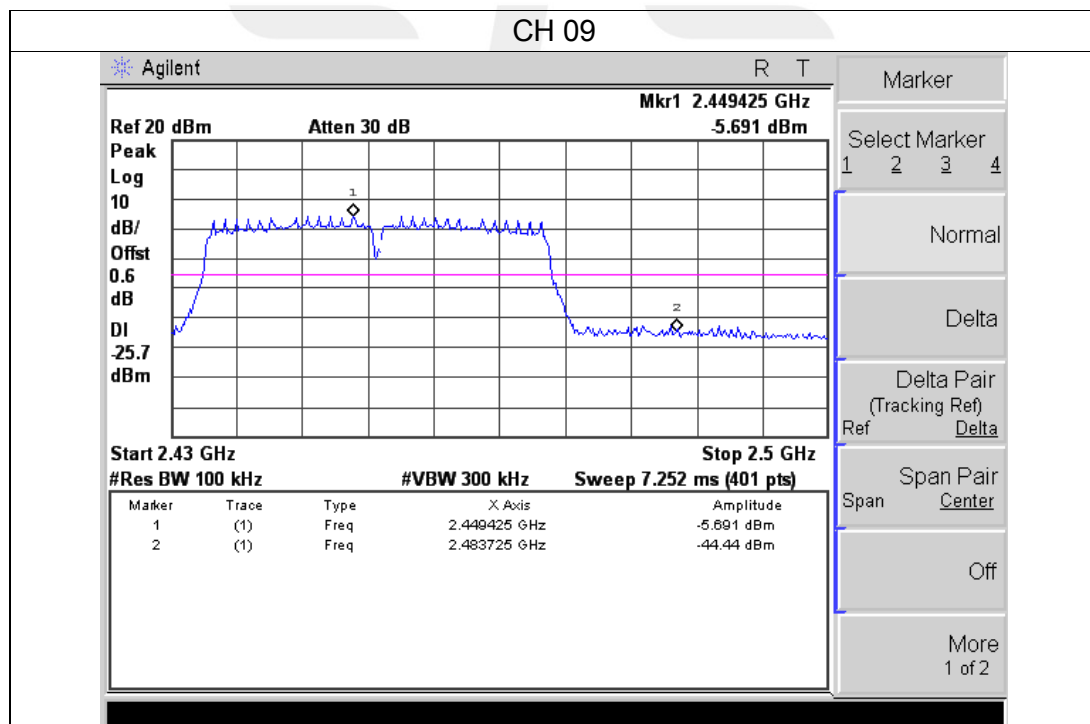
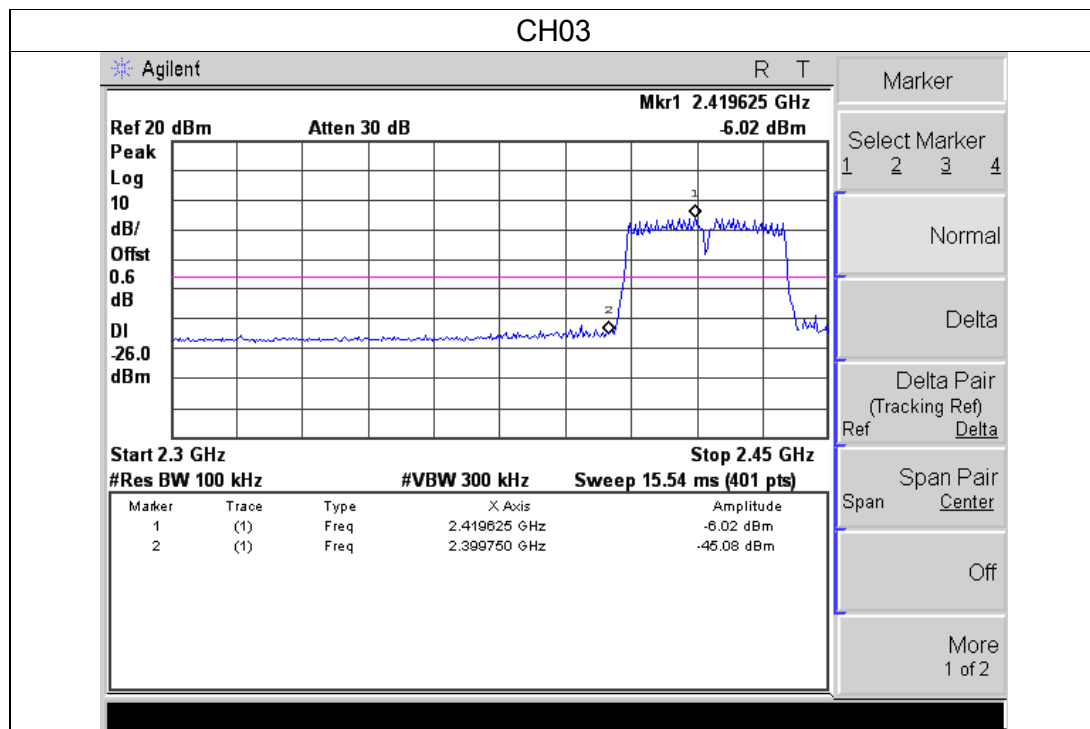


CH09





Band edge





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

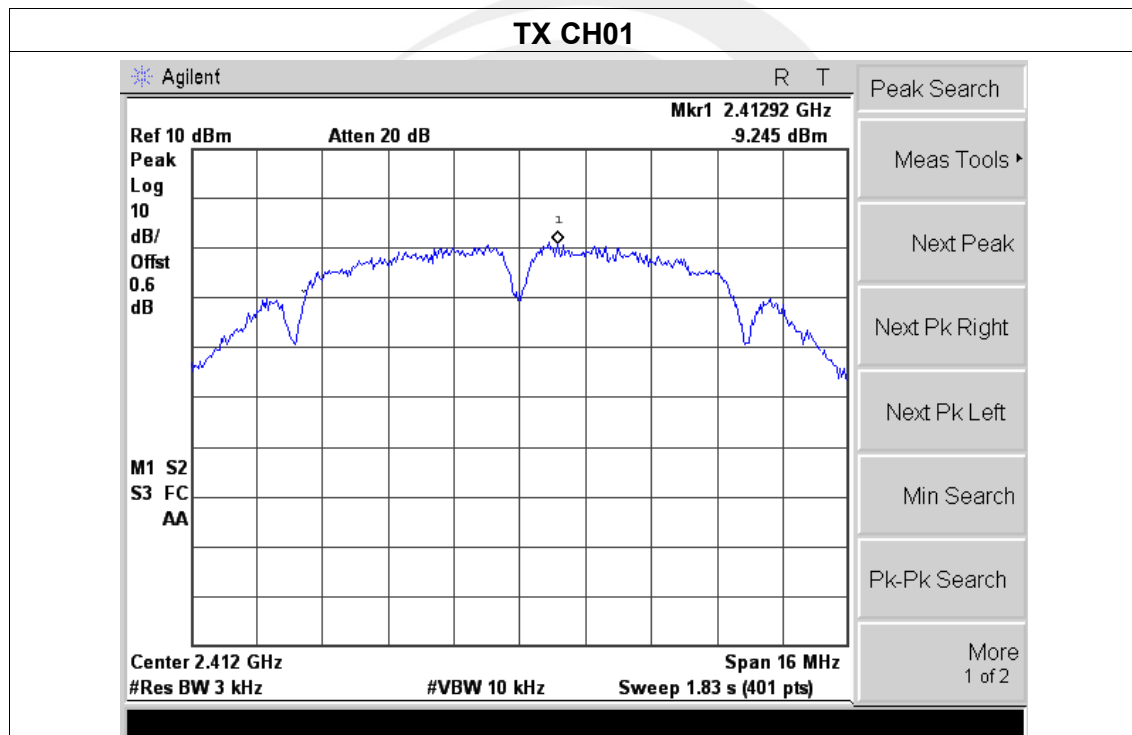
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



5.6 TEST RESULTS

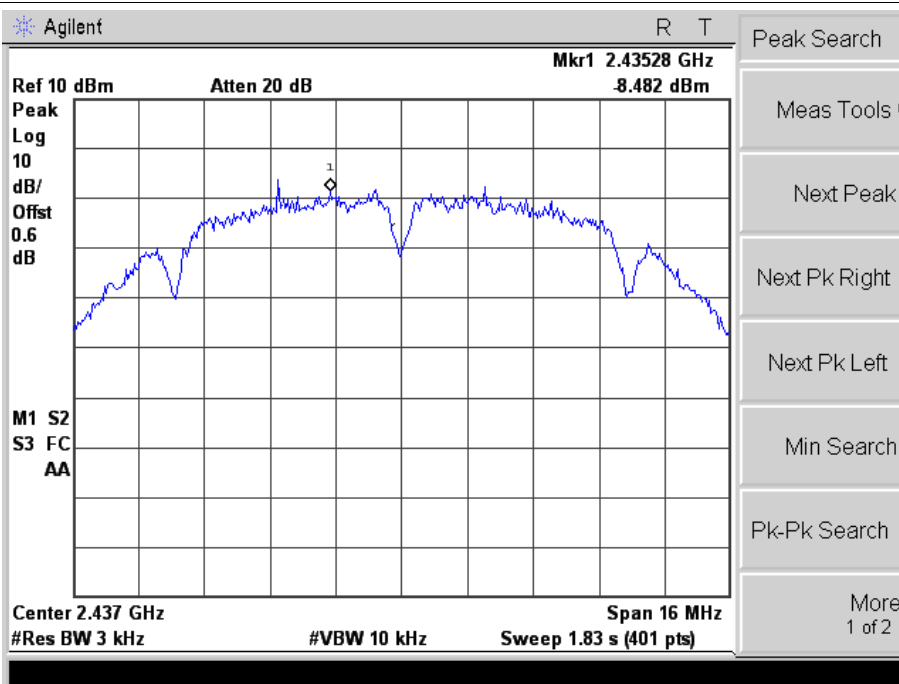
EUT :	3G MOBILE PHONE	Model Name :	U730
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-9.245	8	PASS
2437 MHz	-8.482	8	PASS
2462 MHz	-8.648	8	PASS

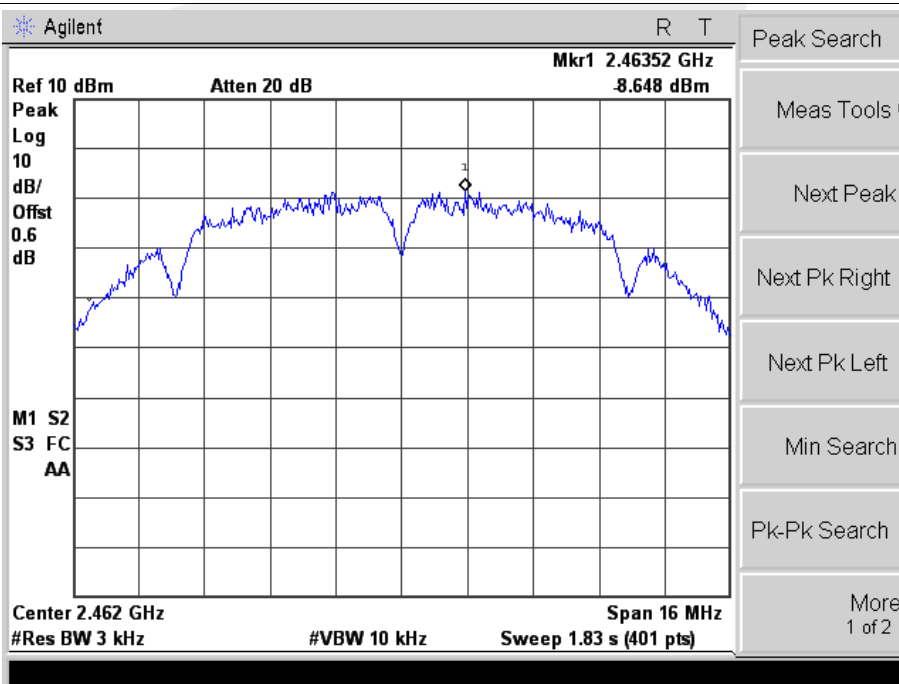




TX CH06



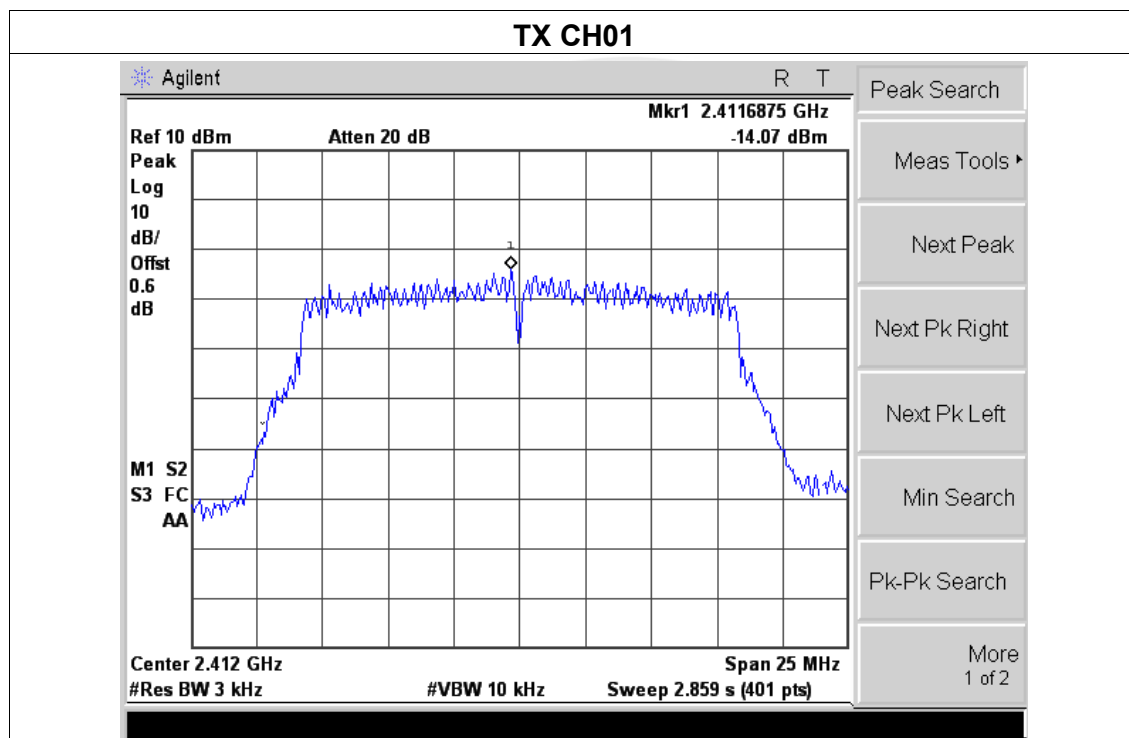
TX CH11





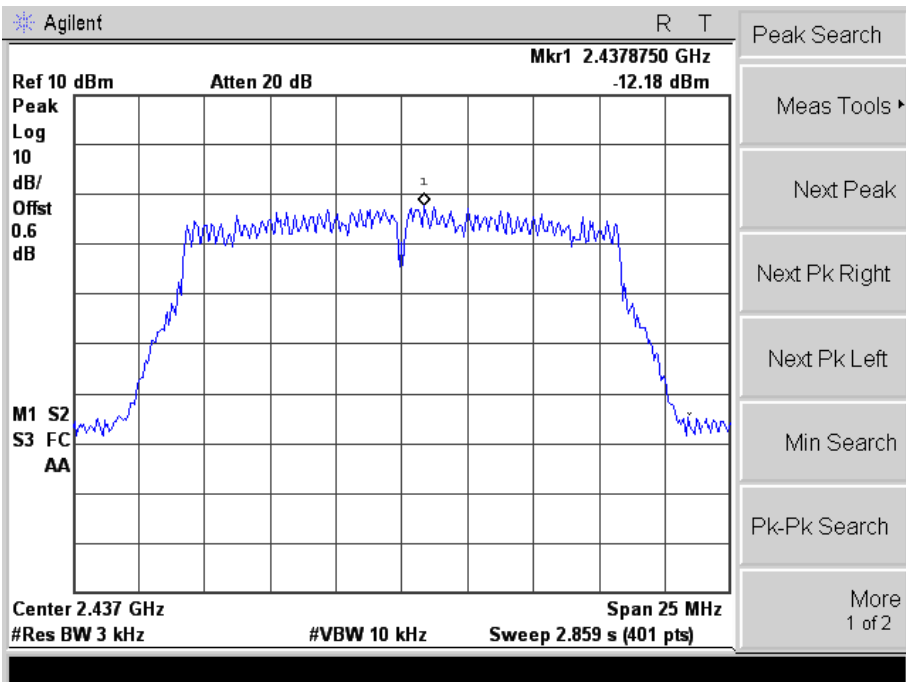
EUT :	3G MOBILE PHONE	Model Name :	U730
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-14.07	8	PASS
2437 MHz	-12.18	8	PASS
2462 MHz	-13.63	8	PASS

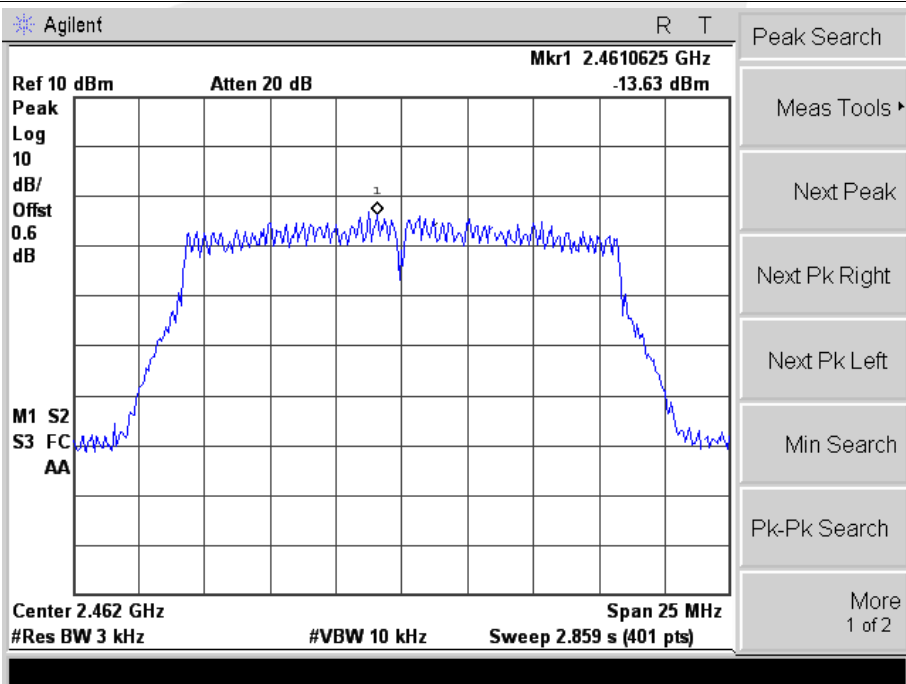




TX CH06



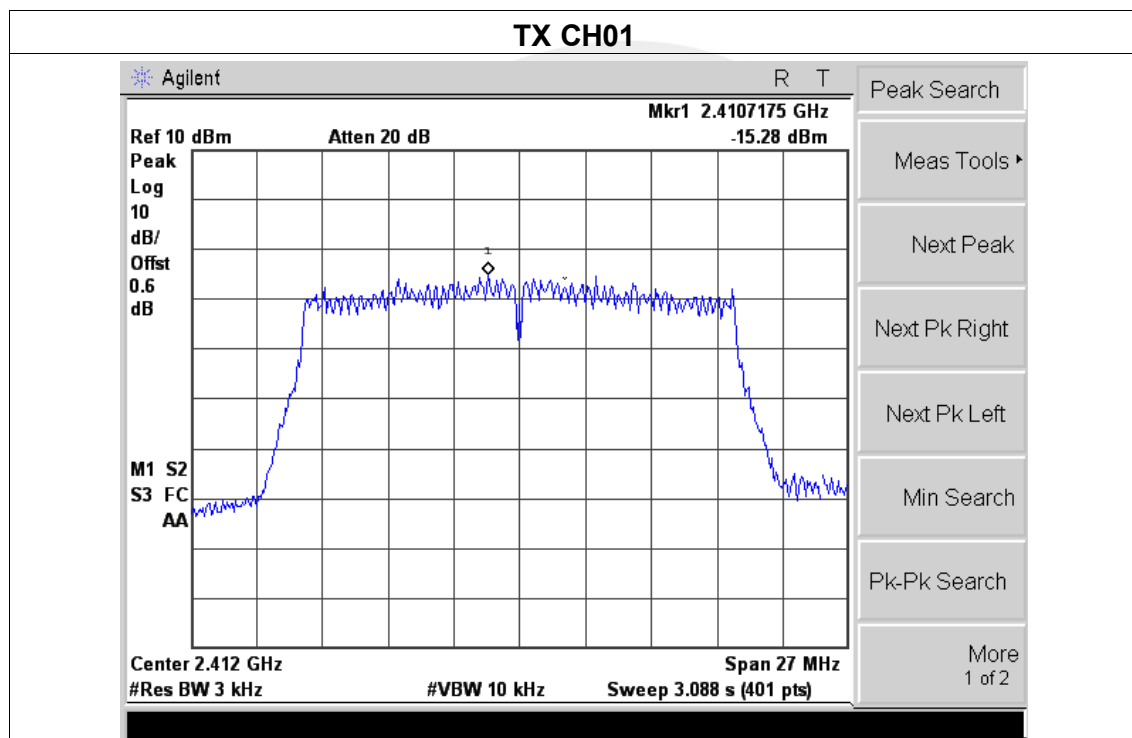
TX CH11





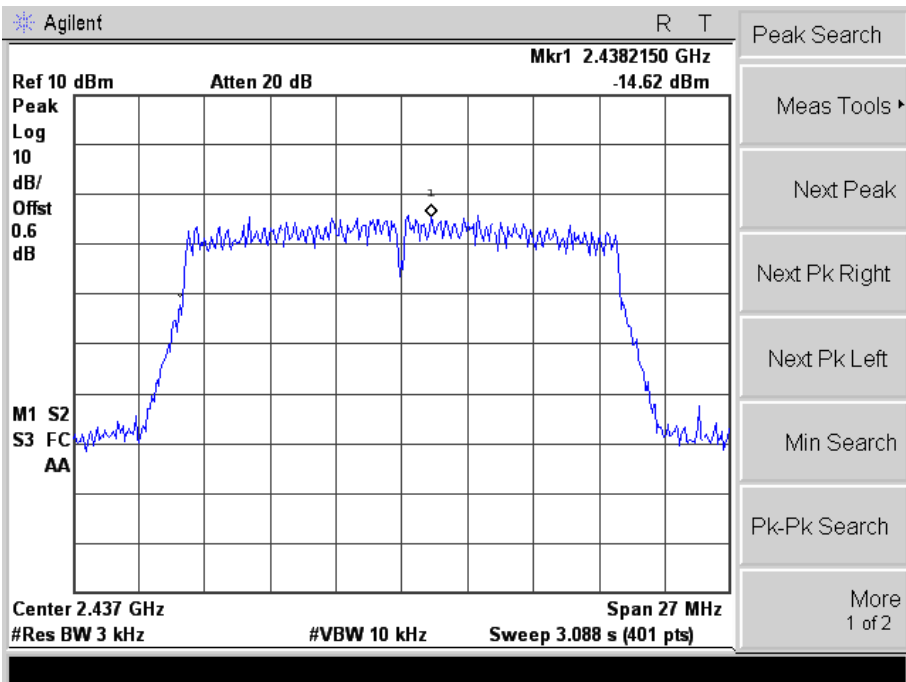
EUT :	3G MOBILE PHONE	Model Name :	U730
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-15.28	8	PASS
2437 MHz	-14.62	8	PASS
2462 MHz	-14.28	8	PASS

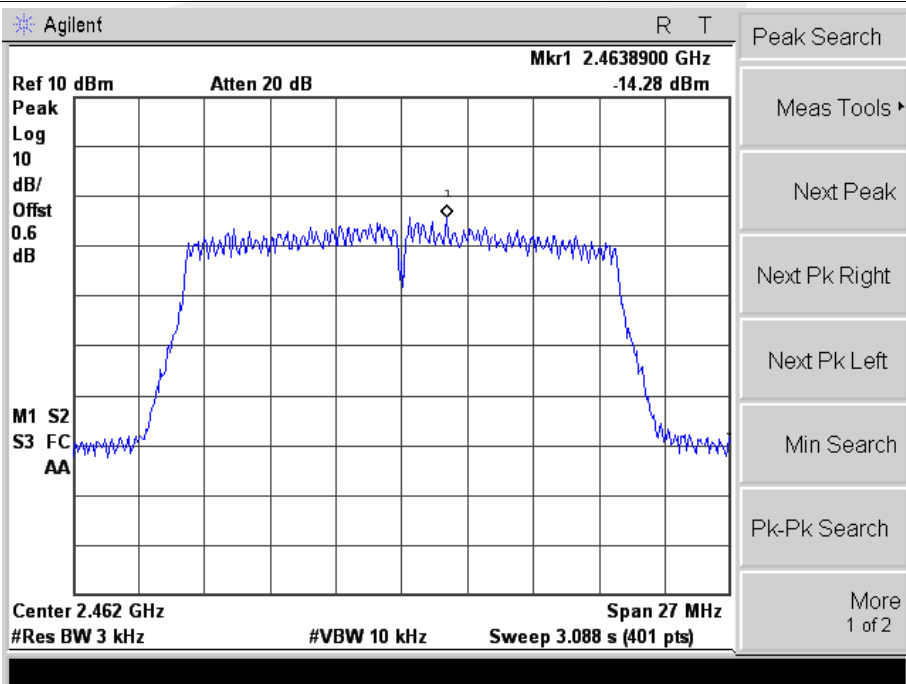




TX CH06



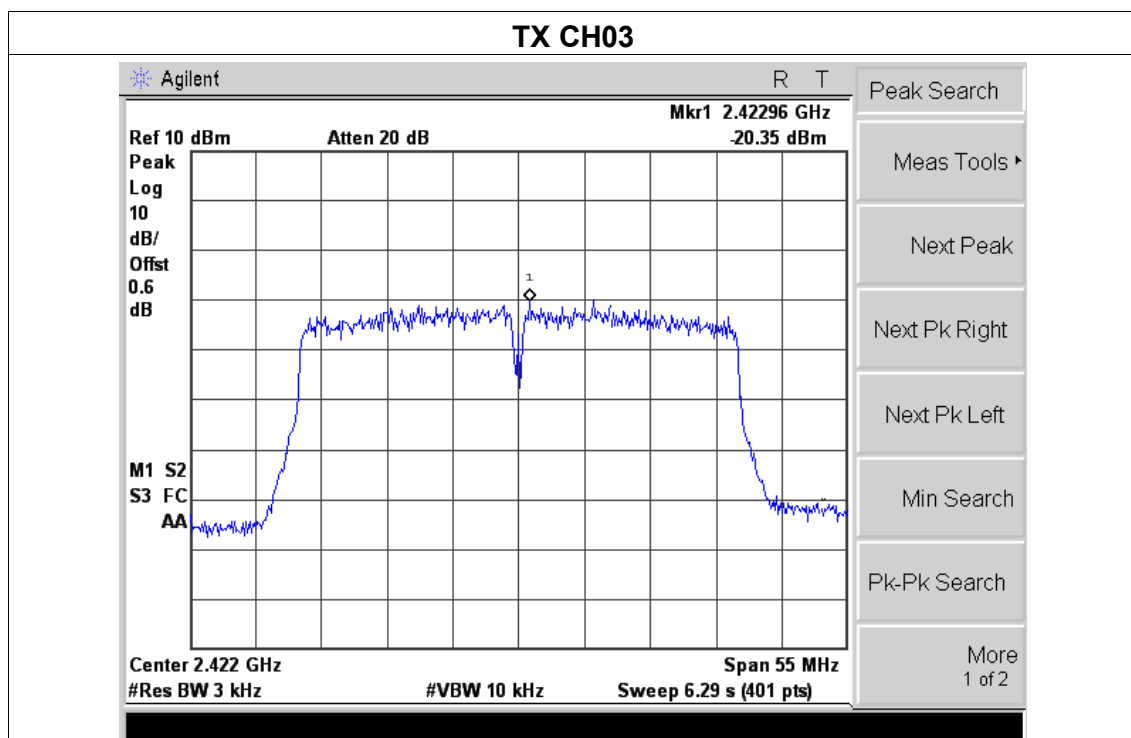
TX CH11





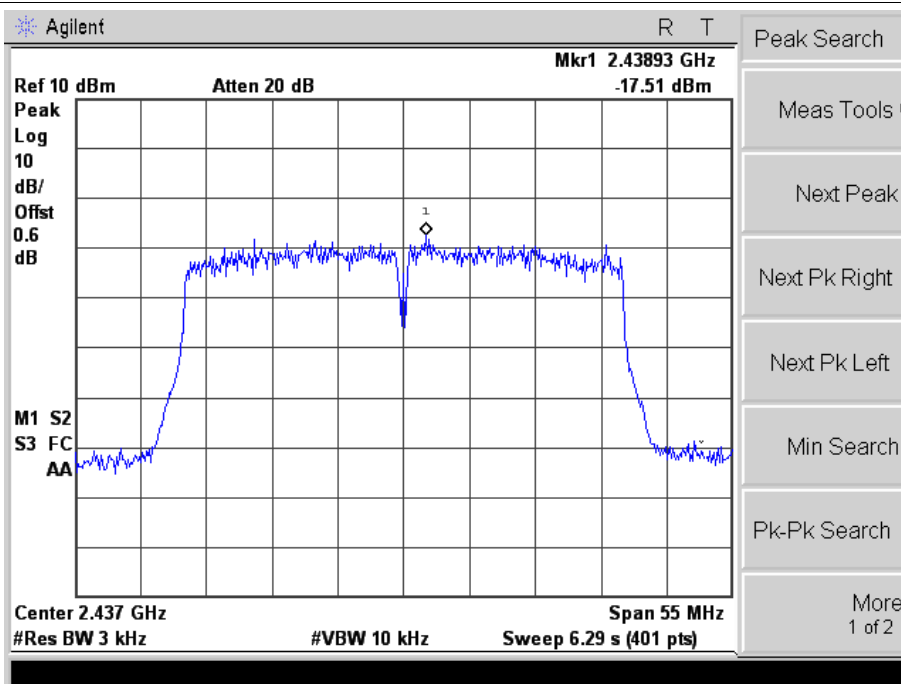
EUT :	3G MOBILE PHONE	Model Name :	U730
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2422 MHz	-20.35	8	PASS
2437 MHz	-17.51	8	PASS
2452 MHz	-20.32	8	PASS

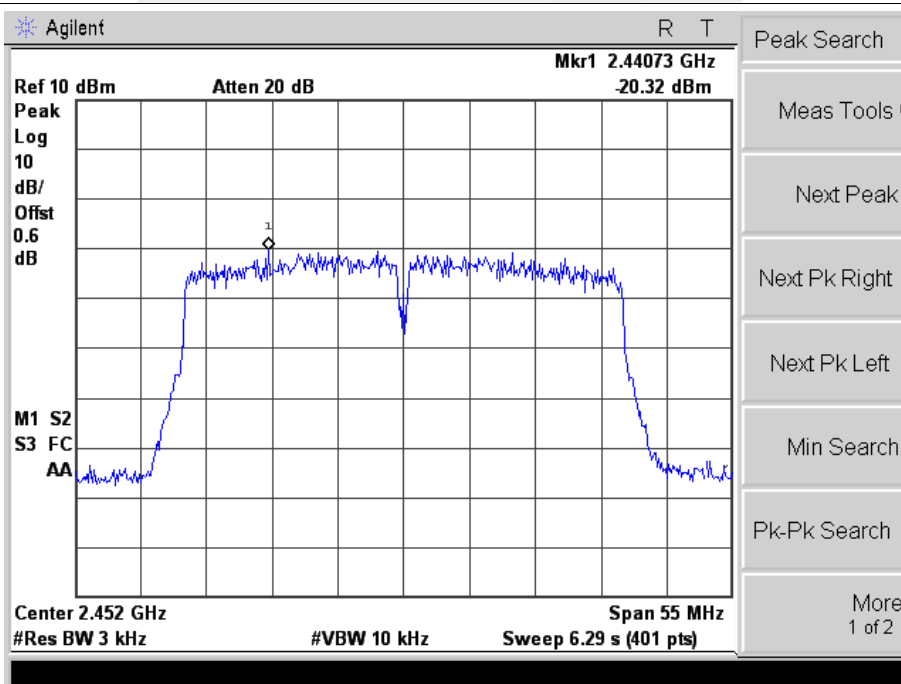




TX CH06



TX CH09





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

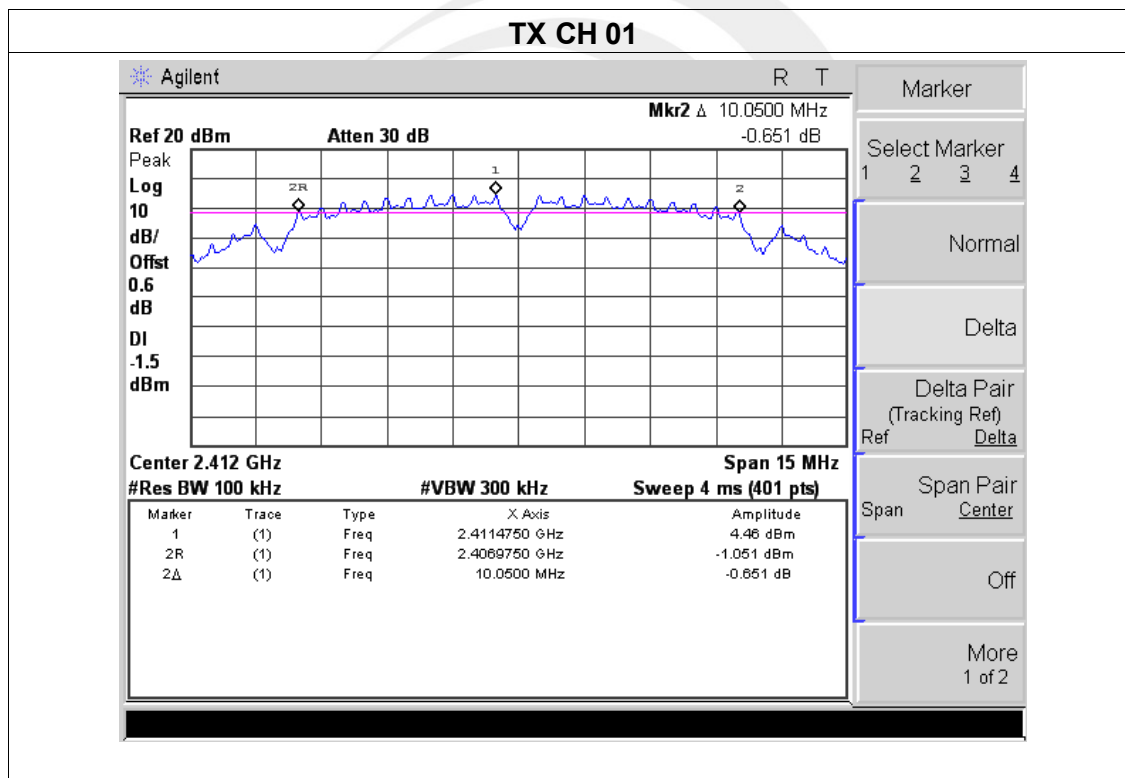
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



6.6 TEST RESULTS

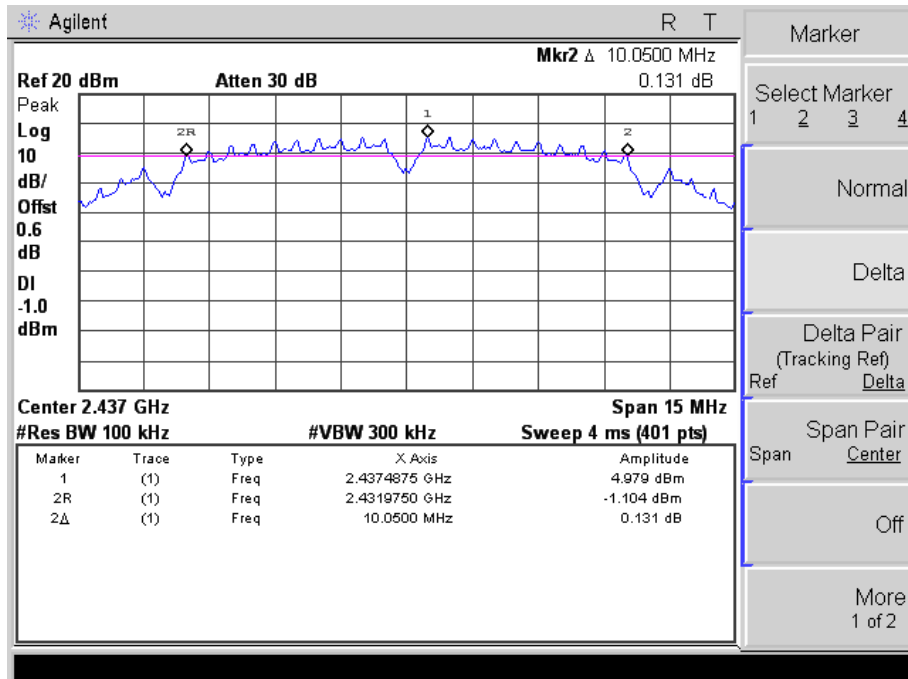
EUT :	3G MOBILE PHONE	Model Name :	U730
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX b Mode /CH01, CH06, CH11		

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

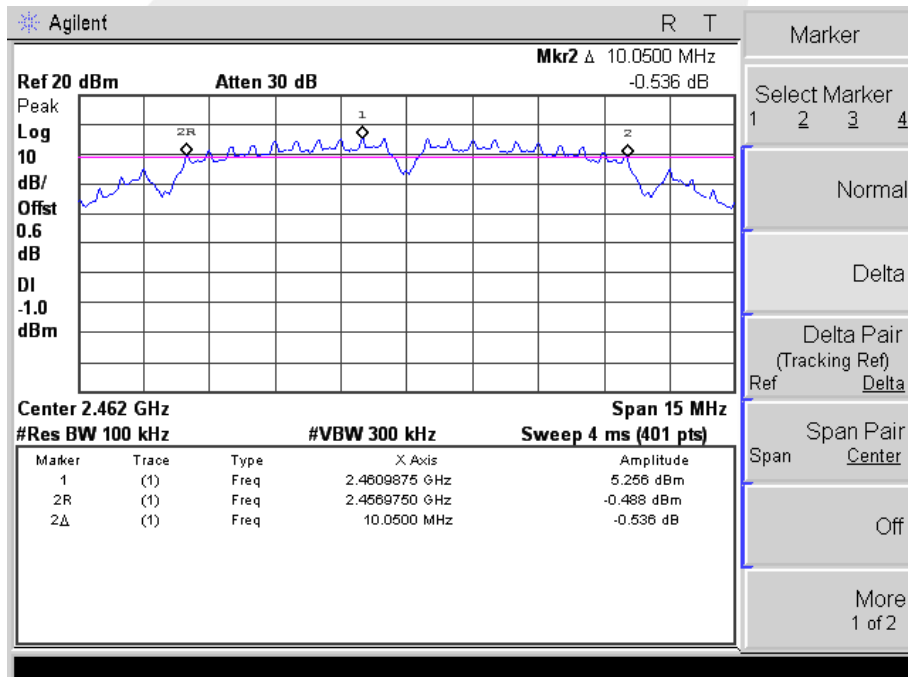




TX CH 06



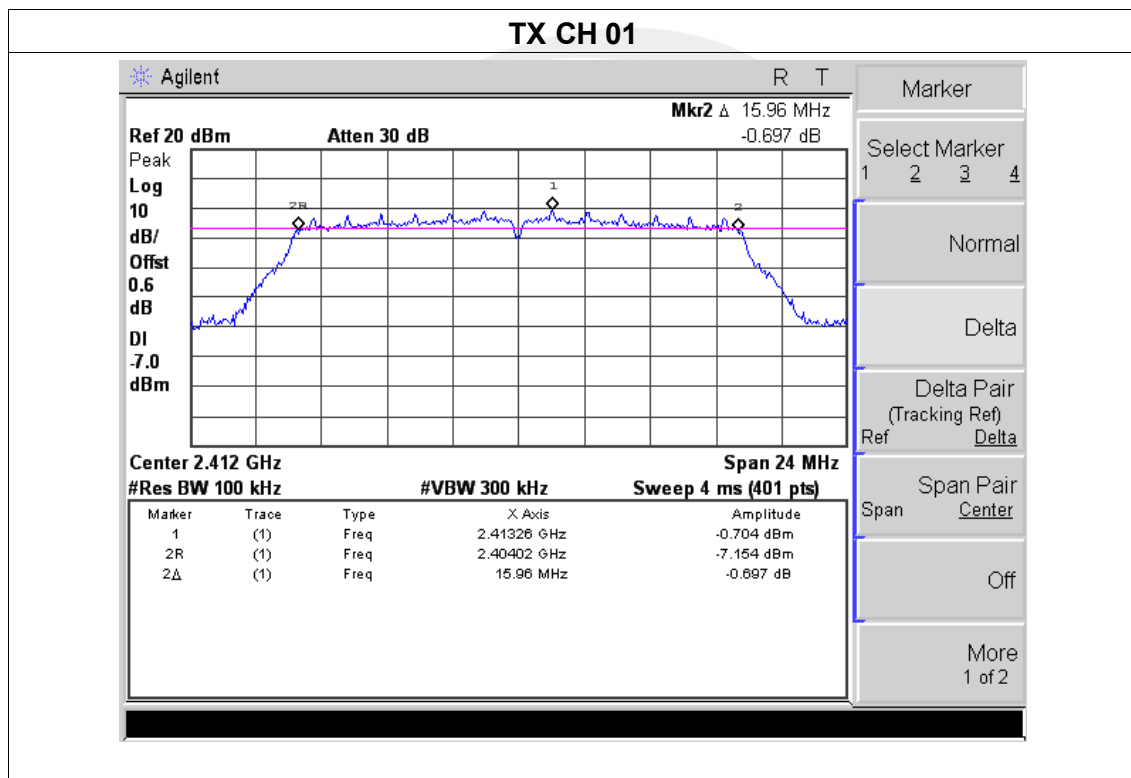
TX CH 11





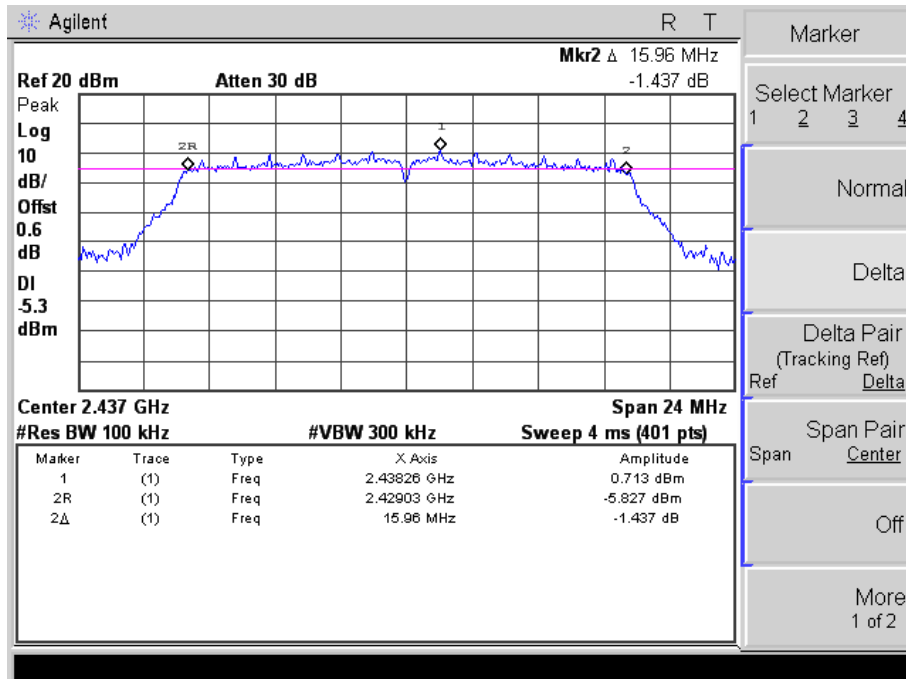
EUT :	3G MOBILE PHONE	Model Name :	U730
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX g Mode /CH01, CH06, CH11		

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

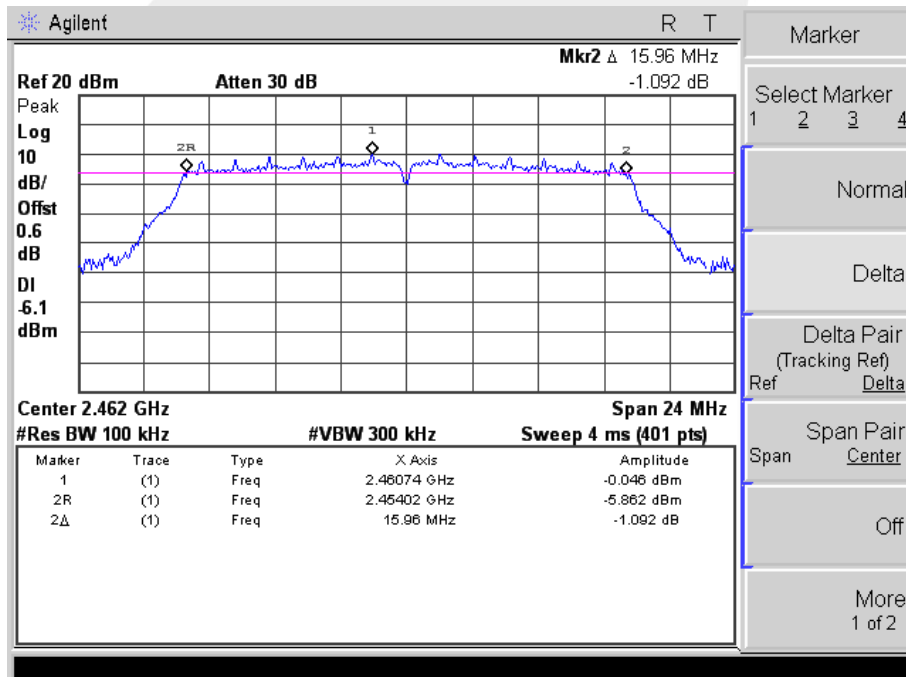




TX CH 06



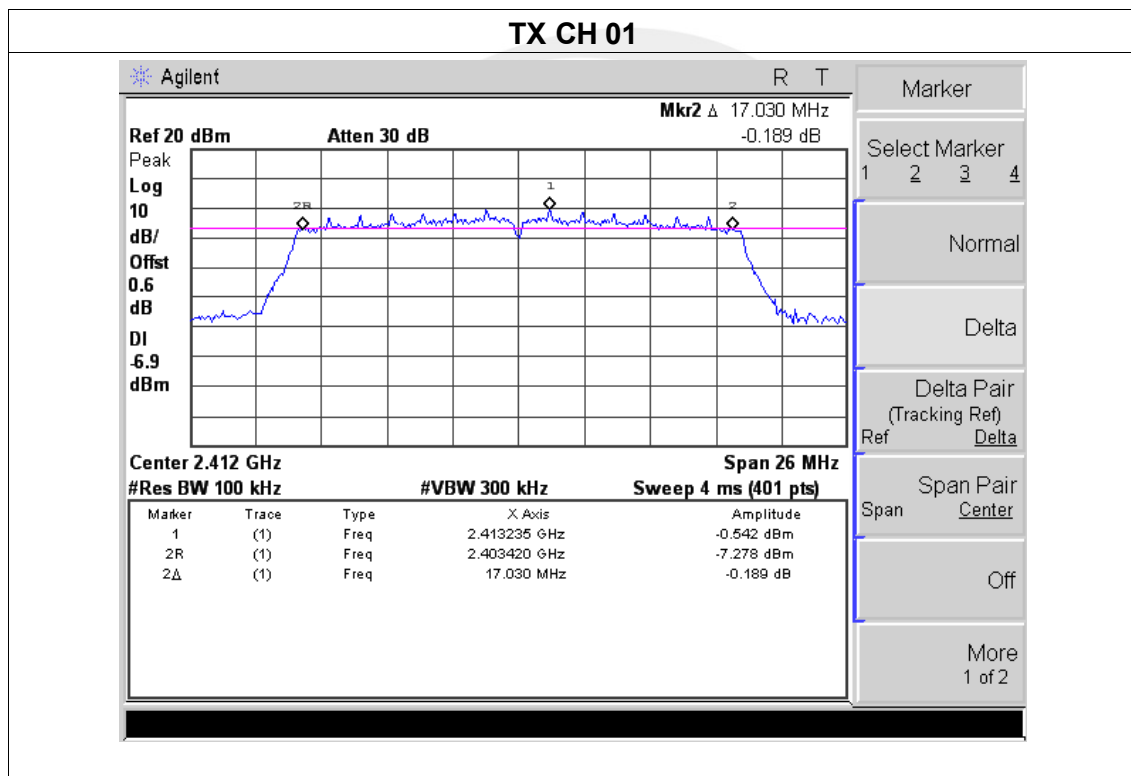
TX CH 11





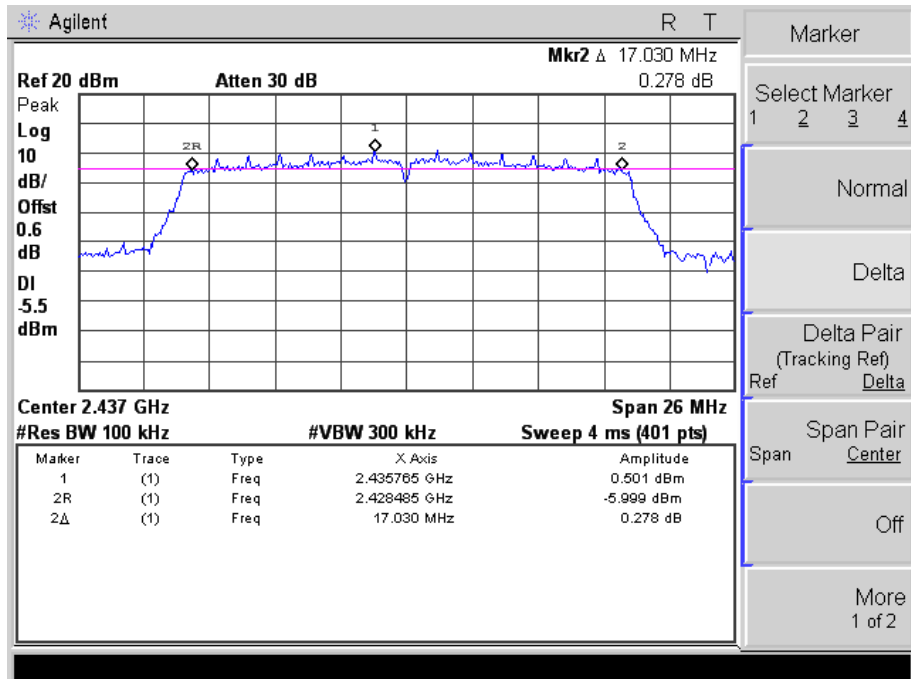
EUT :	3G MOBILE PHONE	Model Name :	U730
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

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

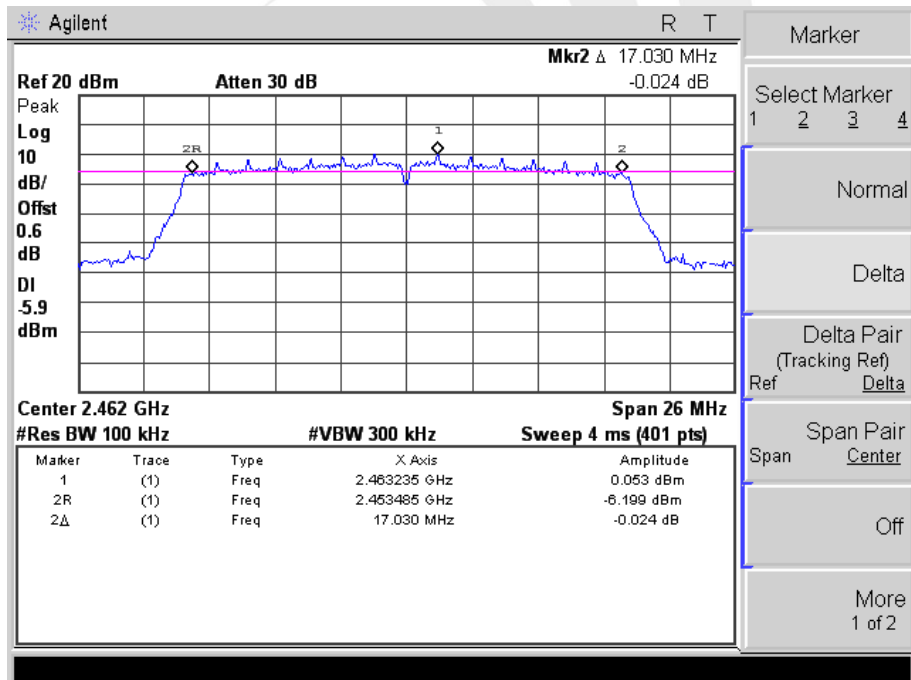




TX CH 06



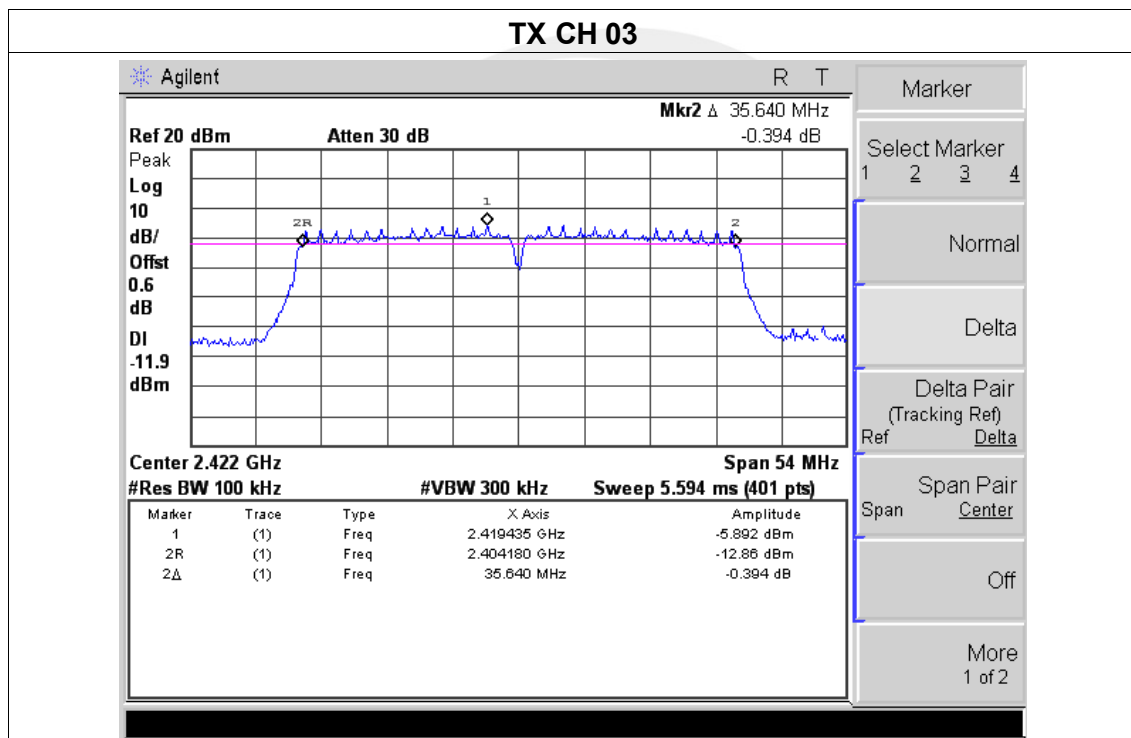
TX CH 11





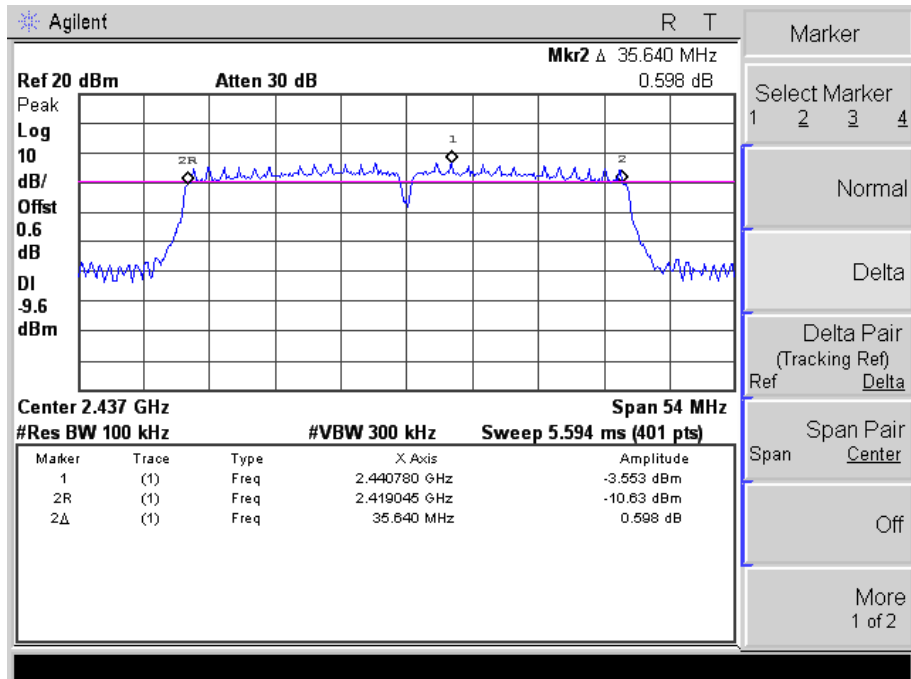
EUT :	3G MOBILE PHONE	Model Name :	U730
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

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

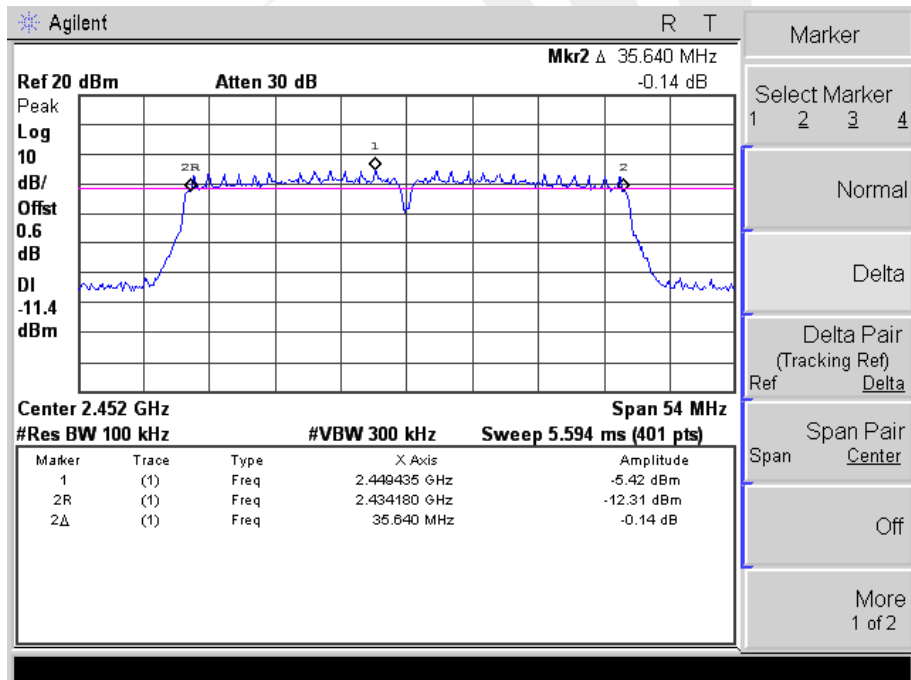




TX CH 06



TX CH 09





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 :	U730
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	12.57	30
CH06	2437	12.97	30
CH11	2462	12.22	30

TX 802.11g Mode			
Test Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	9.90	30
CH06	2437	9.58	30
CH11	2462	9.67	30

TX 802.11n20 Mode			
Test Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	8.52	30
CH06	2437	9.48	30
CH11	2462	8.74	30

TX 802.11n40 Mode			
Test Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH03	2422	7.79	30
CH06	2437	7.86	30
CH09	2452	7.22	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.

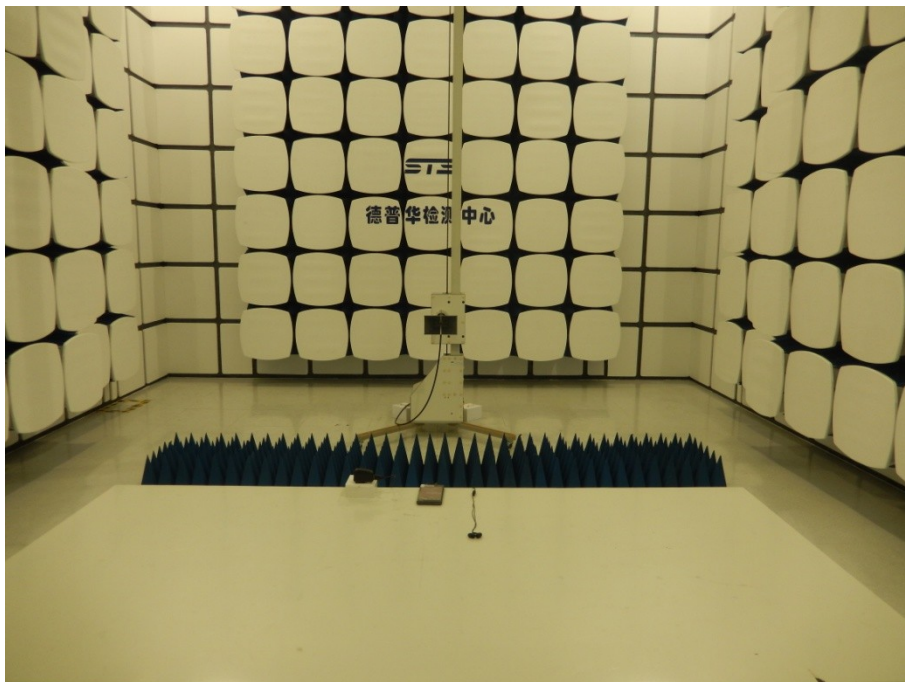
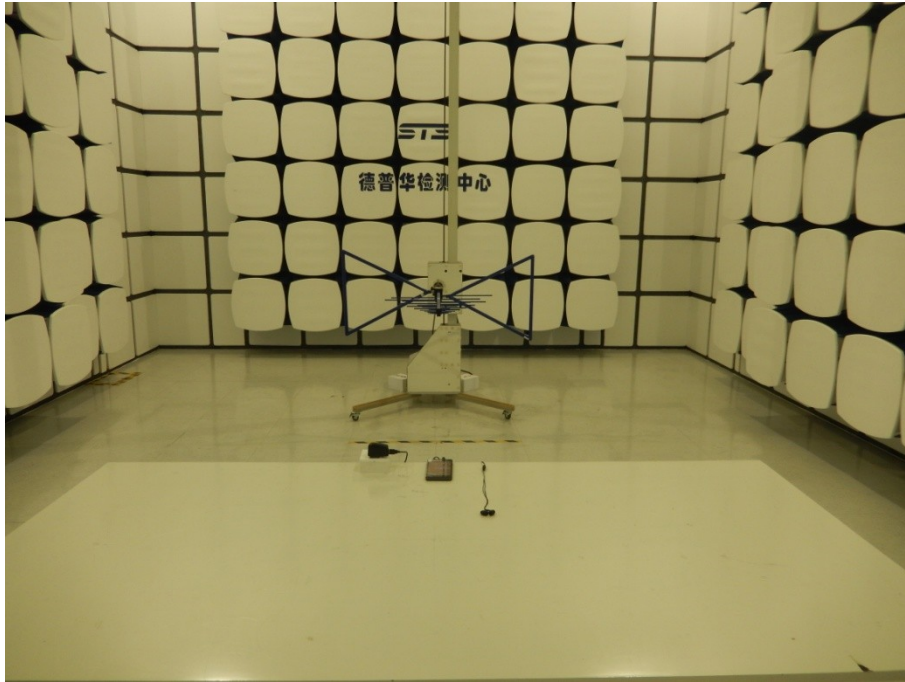
8.2 EUT ANTENNA

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



APPENDIX - PHOTOS OF TEST SETUP

Radiated Measurement Photos





Conducted Measurement Photos

