RADIO TEST REPORT

Report No: STS1504101F03

Issued for

Piu Mobile Corp

6030 Nw 99 Av Unit 405 Miami fl 33178 USA

Product Name:	Smart Phone
Brand Name:	N/A
Model No.:	Y210D
Series Model:	Y320
FCC ID:	2ADOOY210DY320
Test Standard:	FCC Part 15.247

Shenzhen STS Test Services Co., Ltd.
1/F, Building B, Zhuoke Science Park, No.190,Chongqing Road,
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TEST RESULT CERTIFICATION

Applicant's name ..... :	Piu Mobile Corp
Address ..... :	6030 Nw 99 Av Unit 405 Miami fl 33178 USA
Manufacture's Name ..... :	SHENZHEN M-HORSE TECHNOLOGY CO.,LTD
Address ..... :	Building B13 Yintian Industry Park,Xixiang Street,Baoan District,Shenzhen,China
Product description	
Product name ..... :	Smart Phone
Model and/or type reference :	Y210D
Serial Model ..... :	Y320
Standards ..... :	FCC Part15.247
Test procedure ..... :	ANSI C63.10-2013

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 ..... :	12 May. 2015 ~18 May. 2015
Date of Issue ..... :	19 May. 2015
Test Result ..... :	**Pass**

Testing Engineer **:** (Jin Ming)

Technical Manager : (Vita Li)

Authorized Signatory **:** (Bovey Yang)

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Revision History

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	19 May. 2015	STS1504101F03	ALL	Initial Issue

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 B, Zhuoke Science Park, No.190, Chongqing Road,
Fuyong Street, Bao'an District, Shenzhen, Guangdong,China

CNAS Registration No.: L7649;

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

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U，where expended 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 (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.70dB
4	Spurious emissions,conducted	±1.19dB
5	All emissions,radiated(<1G) 30MHz-200MHz	±2.83dB
6	All emissions,radiated(<1G) 200MHz-1000MHz	±2.94dB
7	All emissions,radiated(>1G)	±3.03dB
8	Temperature	±0.5°C
9	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Equipment</td><td>Smart Phone</td></tr>
<tr><td>Trade Name</td><td>N/A</td></tr>
<tr><td>Model Name</td><td>Y210D</td></tr>
<tr><td>Serial Model</td><td>Y320</td></tr>
<tr><td>Model Difference</td><td>They are different only for model name.</td></tr>
<tr><td>Product Description</td><td>The EUT is a Smart Phone
<table>
<tr><td>Operation Frequency:</td><td>802.11b/g: 2412~2462 MHz</td></tr>
<tr><td>Modulation Type:</td><td>CCK/OFDM/DBPSK/DAPSK</td></tr>
<tr><td>Bit Rate of Transmitter</td><td>802.11b:11/5.5/2/1 Mbps
802.11g:54/48/36/24/18/12/9/6Mbps</td></tr>
<tr><td>Number Of Channel</td><td>802.11b/g: 11CH</td></tr>
<tr><td>Antenna Designation:</td><td>Please see Note 3.</td></tr>
<tr><td>Antenna Gain (dBi)</td><td>1 dbi</td></tr>
</table></td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 2.</td></tr>
<tr><td>Ratings</td><td>DC 3.7V from battery</td></tr>
<tr><td>Adapter</td><td>Power supply and ADP（rating）：
Input:100-240V AC,50/60Hz 200mA
Output:5.0V,1000mA</td></tr>
<tr><td>Battery</td><td>Rated Voltage: 3.7V
capacity : 1500mA</td></tr>
<tr><td>Hardware version number</td><td>G621-V1.0</td></tr>
<tr><td>Software versioning number</td><td>6820-b-G621_JinHuiMa-B12B_150324_1_user_dibaialog_dt</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the User's Manual</td></tr>
</table>

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							
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		

3 Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	PIFA Antenna	N/A	1	N/A

2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	Low
Mode 2	Middle
Mode 3	High
Mode 4	Charging+ Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 4	Charging+ Link Mode

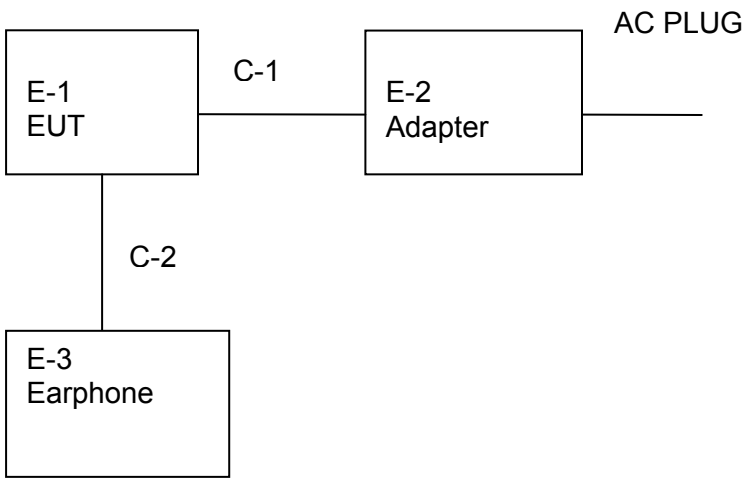
For Radiated Emission	
Final Test Mode	Description
Mode 1	Low
Mode 2	Middle
Mode 3	High
Mode 4	Charging+ Link Mode

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	Smart Phone	N/A	Y210D	N/A	EUT
E-2	Adapter	N/A	BJ-250	N/A	EUT
E-3	Earphone	N/A	N/A	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	unshielded	NO	82.5cm	N/A
C-2	unshielded	NO	119.1cm	N/A

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	2014.11.25	2015.11.24
Horn Antenna	Schwarzbeck	BBHA 9120D(1201)	9120D-1343	2015.03.06	2016.03.05
50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2014.06.06	2015.06.05
PreAmplifier	Agilent	8449B	60538	2014.10.25	2015.10.24
Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2014.10.25	2015.10.24

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
EMI Test Receiver	R&S	ESPI	102086	2014.11.20	2015.11.19
LISN	R&S	ENV216	101242	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.

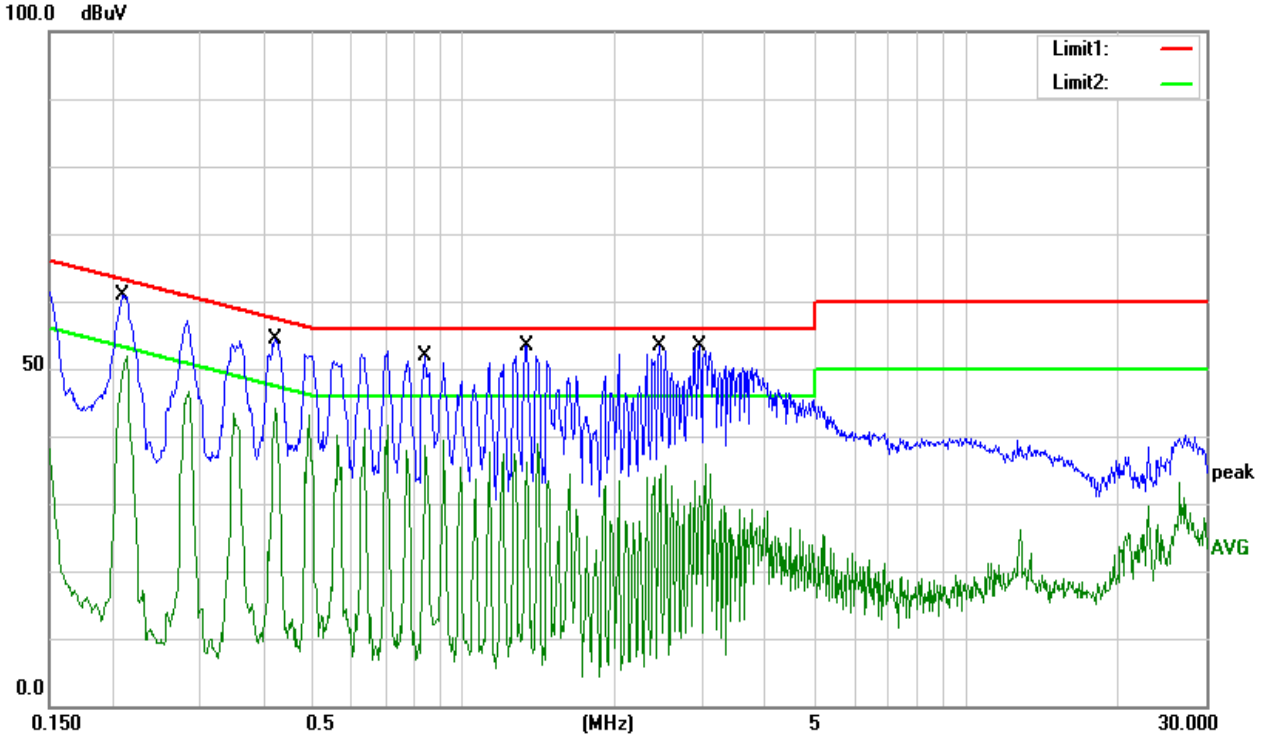
The following table is the setting of the receiver

3.1.2 TEST RESULT

EUT:	Smart Phone	Model Name.:	Y210D
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	L
Test Voltage:	DC 5V from Adapter AC120V/60Hz	Test Mode:	Mode 4

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.2100	48.82	9.99	58.81	63.21	-4.40	QP
0.2100	39.87	9.99	49.86	53.21	-3.35	AVG
0.4220	42.36	10.13	52.49	57.41	-4.92	QP
0.4220	33.96	10.13	44.09	47.41	-3.32	AVG
0.8380	41.01	9.95	50.96	56.00	-5.04	QP
0.8380	25.63	9.95	35.58	46.00	-10.42	AVG
1.3340	42.46	9.93	52.39	56.00	-3.61	QP
1.3340	26.31	9.93	36.24	46.00	-9.76	AVG
2.4500	42.47	10.00	52.47	56.00	-3.53	QP
2.4500	24.29	10.00	34.29	46.00	-11.71	AVG
2.9500	42.28	10.00	52.28	56.00	-3.72	QP
2.9500	25.81	10.00	35.81	46.00	-10.19	AVG

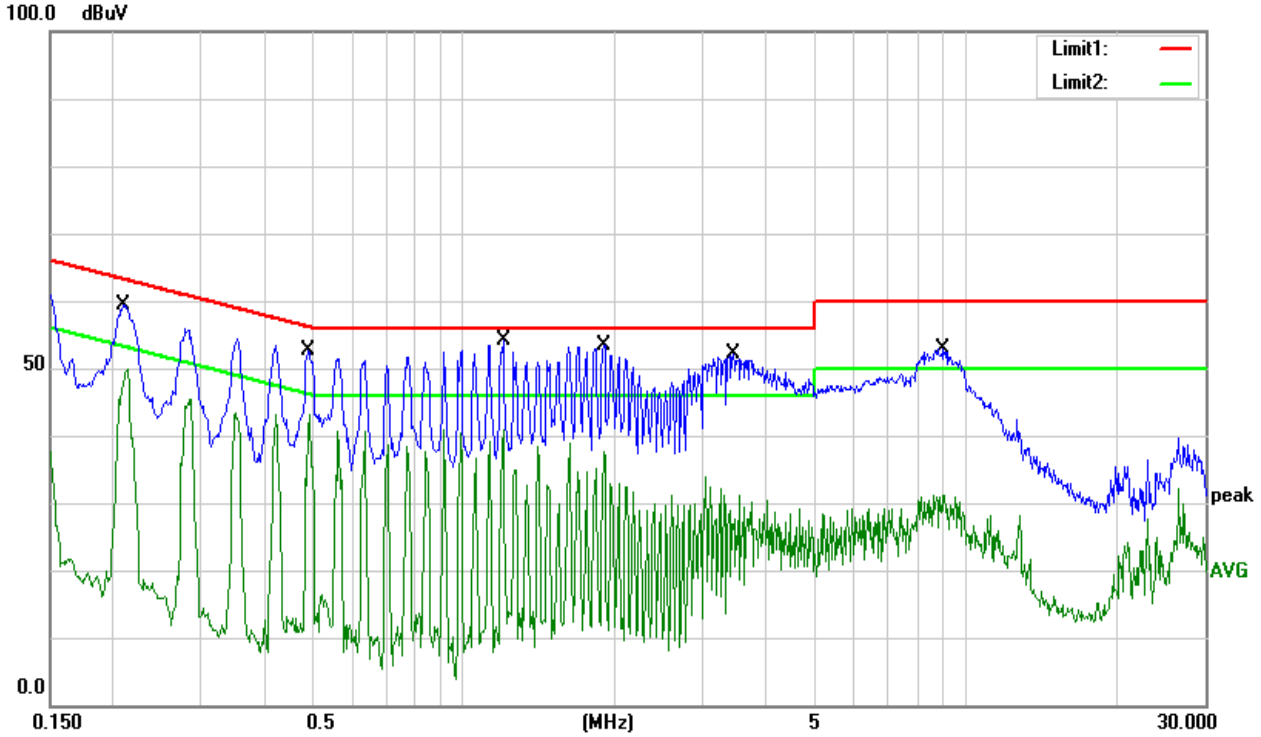
Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT:	Smart Phone	Model Name.:	Y210D
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase:	N
Test Voltage:	DC 5V from Adapter AC120V/60Hz	Test Mode:	Mode 4

Frequency (MHz)	Reading (dBuV)	Correct Factor(dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
0.2100	48.32	9.99	58.31	63.21	-4.90	QP
0.2100	39.87	9.99	49.86	53.21	-3.35	AVG
0.4900	41.58	9.93	51.51	56.17	-4.66	QP
0.4900	32.08	9.93	42.01	46.17	-4.16	AVG
1.2020	42.81	9.92	52.73	56.00	-3.27	QP
1.2020	30.84	9.92	40.76	46.00	-5.24	AVG
1.8980	42.77	9.99	52.76	56.00	-3.24	QP
1.8980	27.73	9.99	37.72	46.00	-8.28	AVG
3.4500	39.89	10.17	50.06	56.00	-5.94	QP
3.4500	20.85	10.17	31.02	46.00	-14.98	AVG
9.0260	40.66	10.33	50.99	60.00	-9.01	QP
9.0260	20.86	10.33	31.19	50.00	-18.81	AVG

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



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	5th 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 hamonic(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

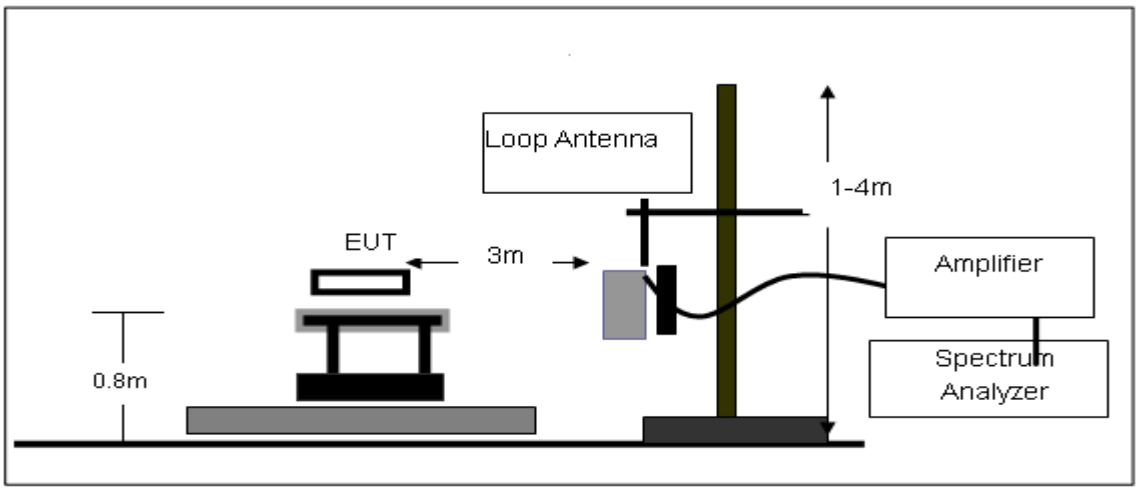
a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

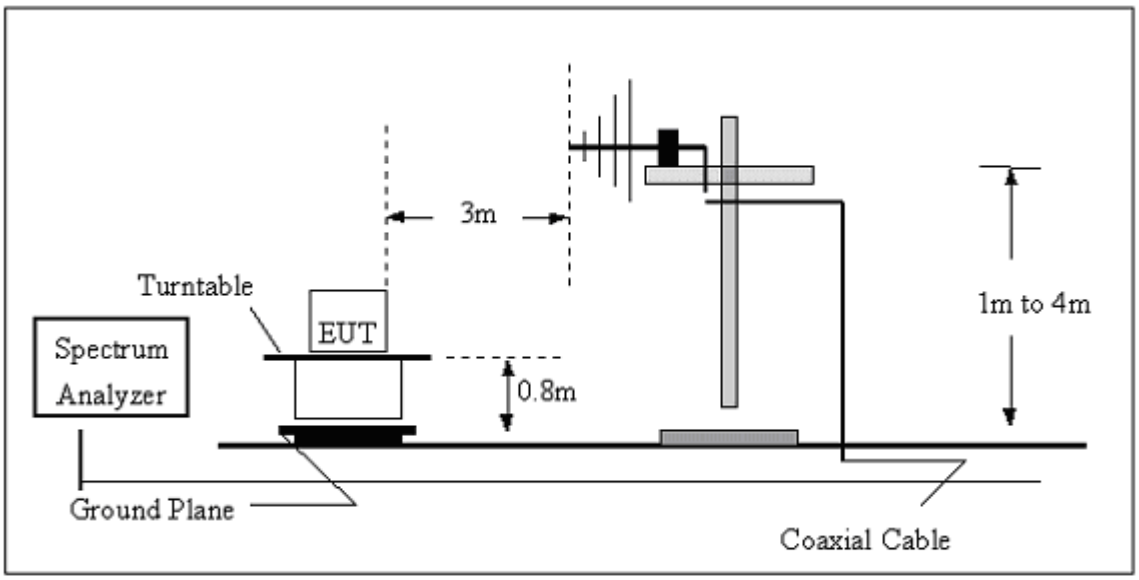
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 TEST SETUP

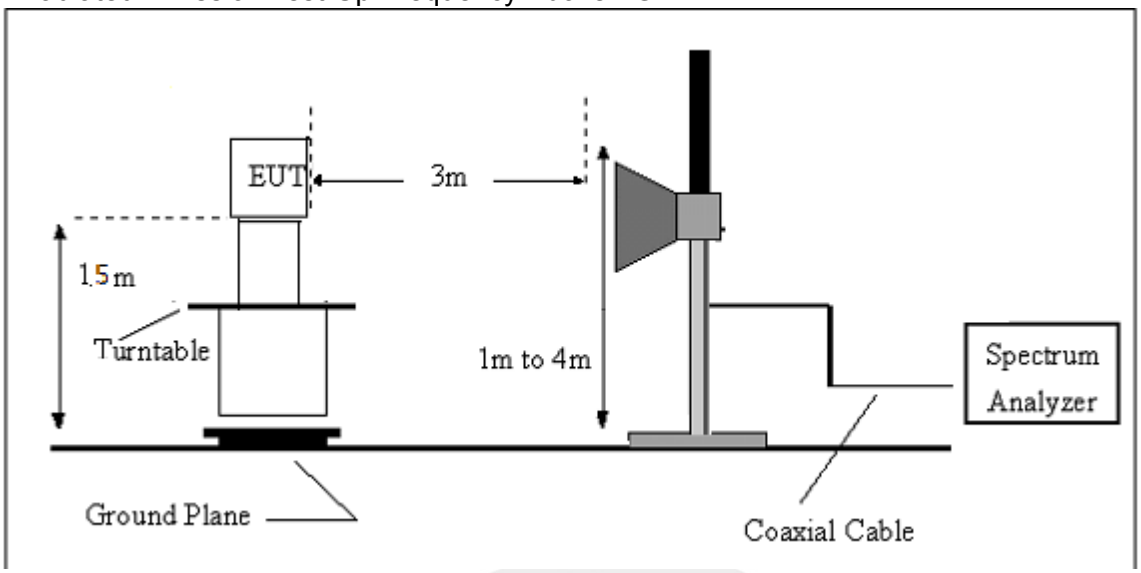
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.4 EUT OPERATING CONDITIONS

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

3.2.5 TEST RESULT

9KHz-30MHz

EUT：	Smart Phone	Model Name. ：	Y210D
Temperature：	20 ℃	Relative Humidtity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	Link mode	Polarization :	--

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

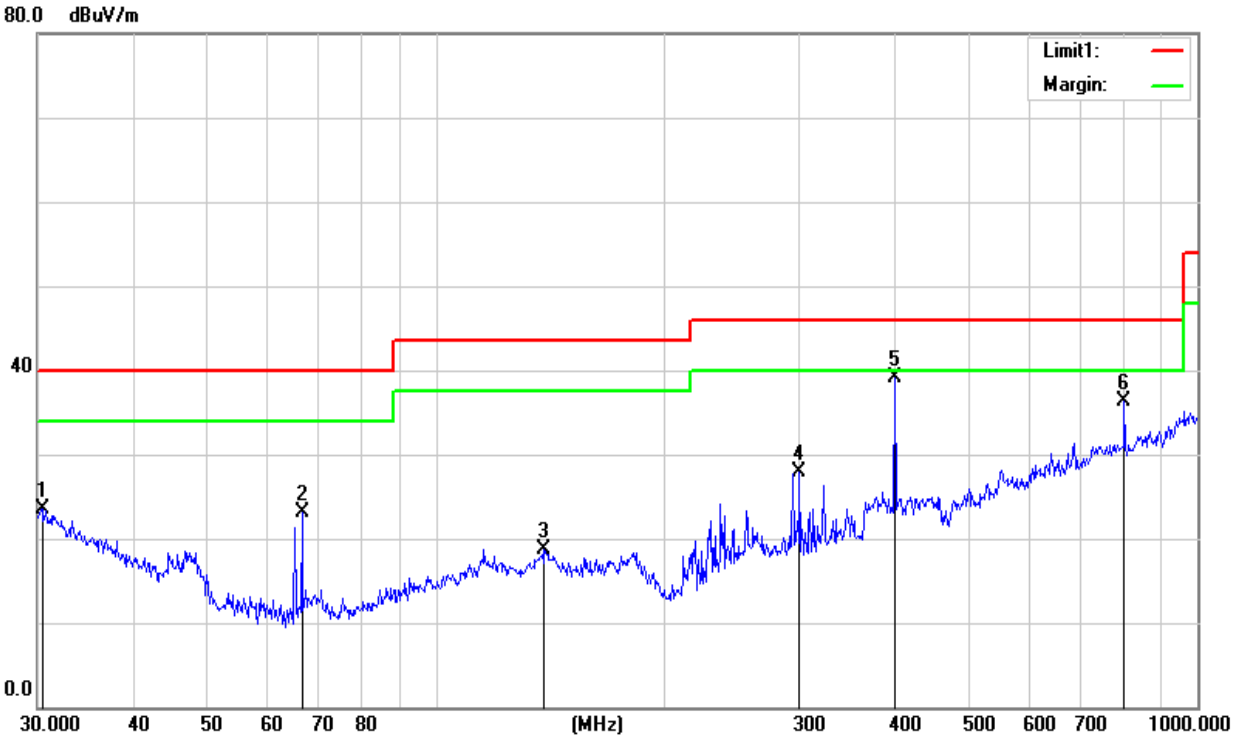
NOTE:
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
Distance extrapolation factor =40 log (specific distance/test distance)(dB);
Limit line = specific limits(dBuv) + distance extrapolation factor.

30MHz - 1000MHz

EUT:	Smart Phone	Model Name. :	Y210D
Temperature:	20 ℃	Relative Humidtity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 5V from Adapter with AC 120V/60Hz
Test Mode :	Mode 4	Polarization :	Horizontal

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
30.4237	4.80	18.74	23.54	40.00	-16.46	QP
66.7325	17.11	5.94	23.05	40.00	-16.95	QP
138.8735	5.83	12.88	18.71	43.50	-24.79	QP
300.3672	12.59	15.23	27.82	46.00	-18.18	QP
400.4318	20.25	18.84	39.09	46.00	-6.91	QP
801.7862	10.31	26.08	36.39	46.00	-9.61	QP

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



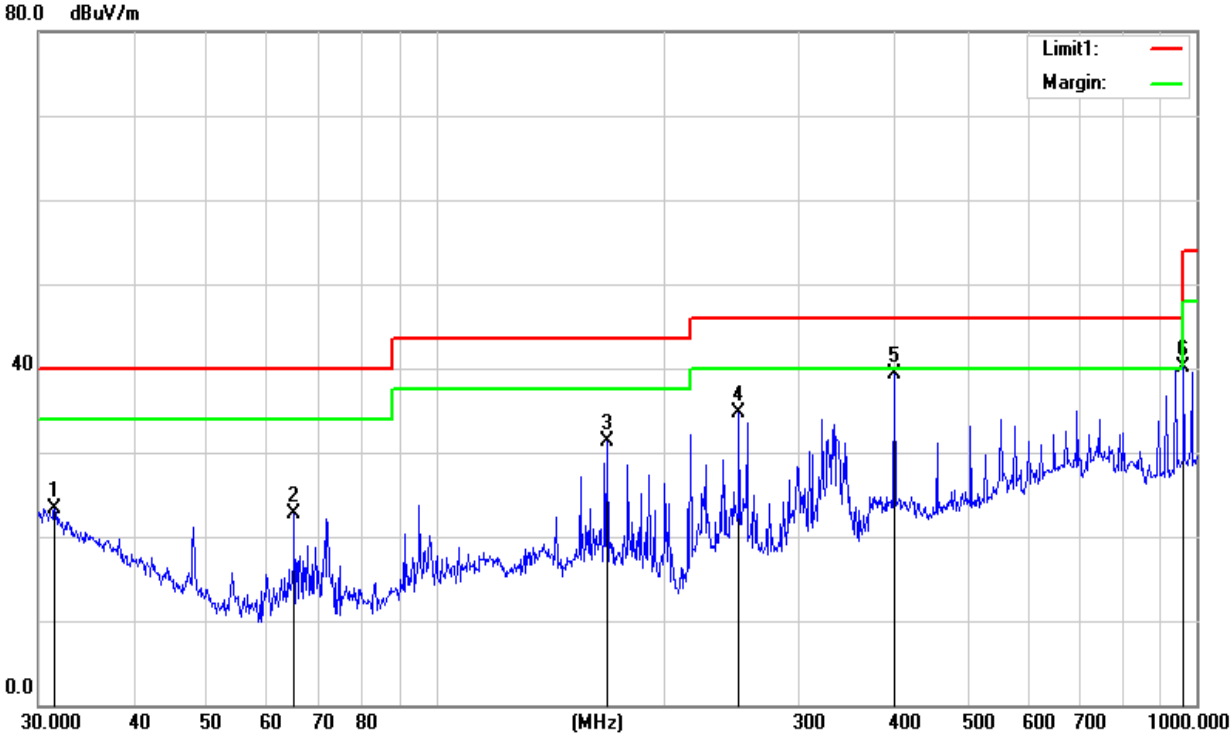
30MHz - 1000MHz

EUT：	Smart Phone	Model Name. ：	Y210D
Temperature：	20 ℃	Relative Humidtity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz
Test Mode ：	Mode 4	Polarization :	Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
31.5093	5.15	18.17	23.32	40.00	-16.68	QP
65.1145	16.84	5.82	22.66	40.00	-17.34	QP
167.8241	20.30	11.06	31.36	43.50	-12.14	QP
250.3010	20.56	14.07	34.63	46.00	-11.37	QP
400.4318	20.54	18.84	39.38	46.00	-6.62	QP
962.1621	10.73	29.32	40.05	54.00	-13.95	QP

Remark:

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



Above 1000MHz

EUT：	Smart Phone	Model Name ：	Y210D
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
Low Channel (802.11b/2412 MHz)							
4824.20	65.57	-3.58	61.99	74	-12.01	PK	Vertical
4824.22	45.73	-3.58	42.15	54	-11.85	AV	Vertical
7236.13	60.96	-0.8	60.16	74	-13.84	PK	Vertical
7236.12	40.19	-0.8	39.39	54	-14.61	AV	Vertical
4824.19	61.43	-3.58	57.85	74	-16.15	PK	Horizontal
4824.22	42.92	-3.58	39.34	54	-14.66	AV	Horizontal
Mid Channel (802.11b/2437 MHz)							
4874.05	63.97	-3.56	60.41	74	-13.59	PK	Vertical
4874.02	48.04	-3.56	44.48	54	-9.52	AV	Vertical
7311.25	60.47	-0.78	59.69	74	-14.31	PK	Vertical
7311.27	44.05	-0.78	43.27	54	-10.73	AV	Vertical
4874.14	60.79	-3.56	57.23	74	-16.77	PK	Horizontal
4874.12	44.38	-3.56	40.82	54	-13.18	AV	Horizontal
High Channel (802.11b/2462 MHz)							
4944.23	60.13	-3.54	56.59	74	-17.41	PK	Vertical
4944.32	44.89	-3.54	41.35	54	-12.65	AV	Vertical
7416.31	60.58	-0.75	59.83	74	-14.17	PK	Vertical
7416.38	44.36	-0.75	43.61	54	-10.39	AV	Vertical
4944.25	60.79	-3.54	57.25	74	-16.75	PK	Horizontal
4944.35	44.12	-3.54	40.58	54	-13.42	AV	Horizontal

Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. Scan with 802.11b, 802.11g, the worst case is 802.11b.

3.2.6 TEST RESULTS (Band edge)

EUT：	Smart Phone	Model Name ：	Y210D
Temperature：	20 ℃	Relative Humidity：	48%
Pressure：	1010 hPa	Test Voltage ：	DC 5V from Adapter with AC 120V/60Hz

Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBμV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Comment
802.11 b							
2399.9	68.26	-12.99	55.27	74	-18.73	pk	Vertical
2399.9	53.83	-12.99	40.84	54	-13.16	AV	Vertical
2399.9	68.92	-12.99	55.93	74	-18.07	pk	Horizontal
2399.9	53.04	-12.99	40.05	54	-13.95	AV	Horizontal
2483.6	69.66	-12.78	56.88	74	-17.12	pk	Vertical
2483.6	52.97	-12.78	40.19	54	-13.81	AV	Vertical
2483.6	69.92	-12.78	57.14	74	-16.86	pk	Horizontal
2483.6	53.06	-12.78	40.28	54	-13.72	AV	Horizontal
802.11 g							
2399.9	67.72	-12.99	54.73	74	-19.27	pk	Vertical
2399.9	54.16	-12.99	41.17	54	-12.83	AV	Vertical
2399.9	68.73	-12.99	55.74	74	-18.26	pk	Horizontal
2399.9	52.78	-12.99	39.79	54	-14.21	AV	Horizontal
2483.6	69.83	-12.78	57.05	74	-16.95	pk	Vertical
2483.6	53.36	-12.78	40.58	54	-13.42	AV	Vertical
2483.6	69.87	-12.78	57.09	74	-16.91	pk	Horizontal
2483.6	53.05	-12.78	40.27	54	-13.73	AV	Horizontal

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.

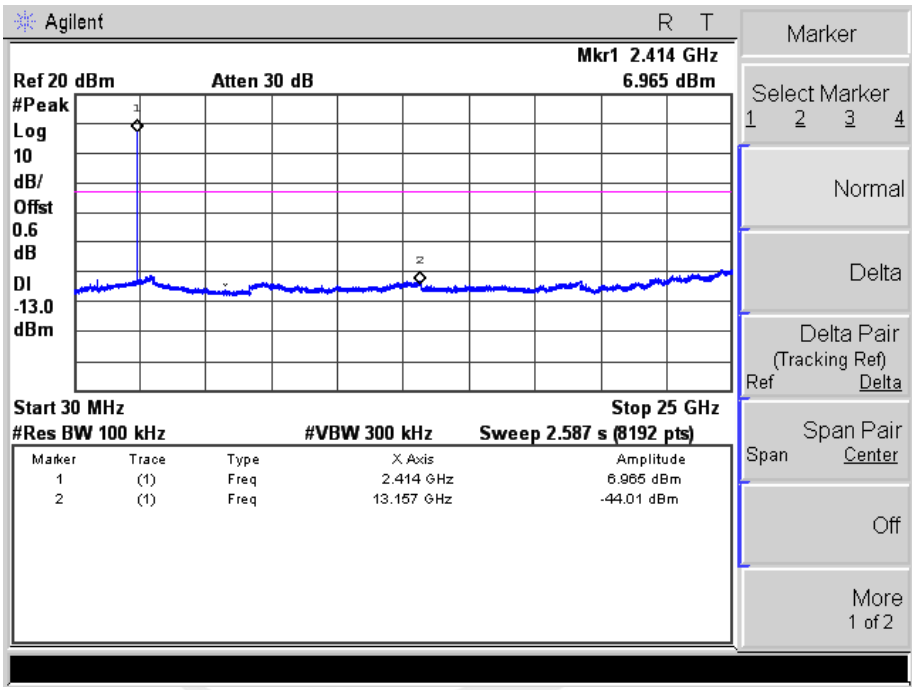
4.5 EUT OPERATION CONDITIONS

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.

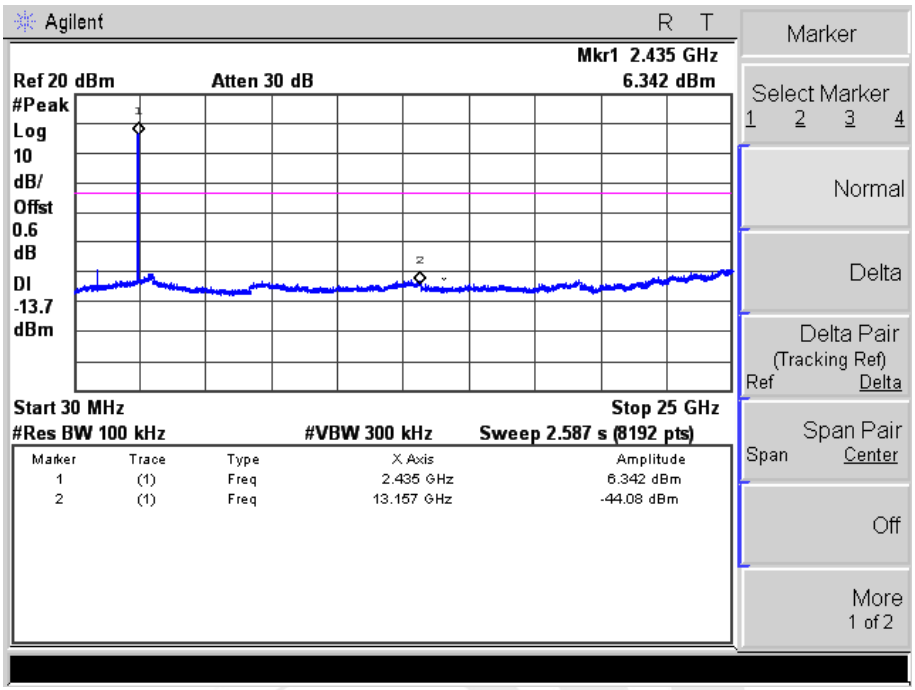
4.6 TEST RESULTS

EUT：	Smart Phone	Model Name ：	Y210D
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX b Mode /CH01, CH06, CH11		

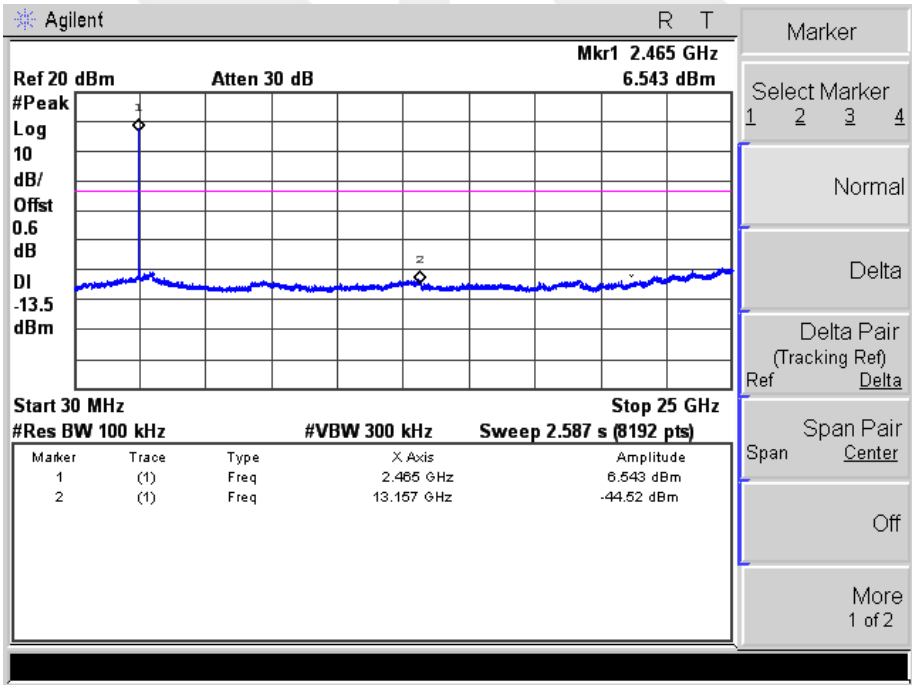
CH 01



CH 06

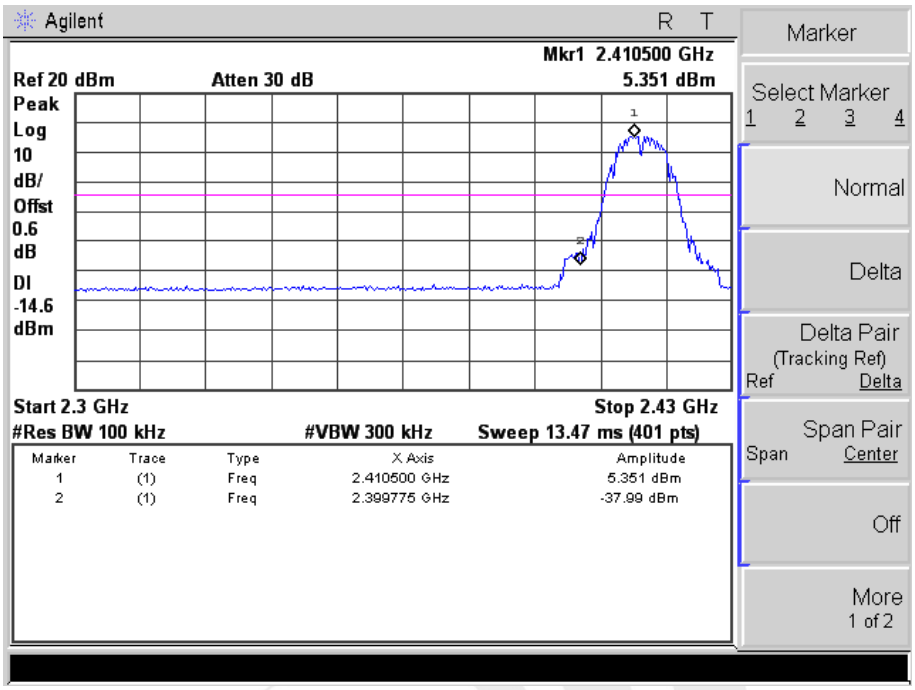

Agilent
R T
Mkr1 2.435 GHz
Ref 20 dBm
Atten 30 dB
6.342 dBm
#Peak
Log
10
dB/
Offst
0.6
dB
Dl
-13.7
dBm
Start 30 MHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.435 GHz 6.342 dBm
2 (1) Freq 13.157 GHz -44.08 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

CH 11

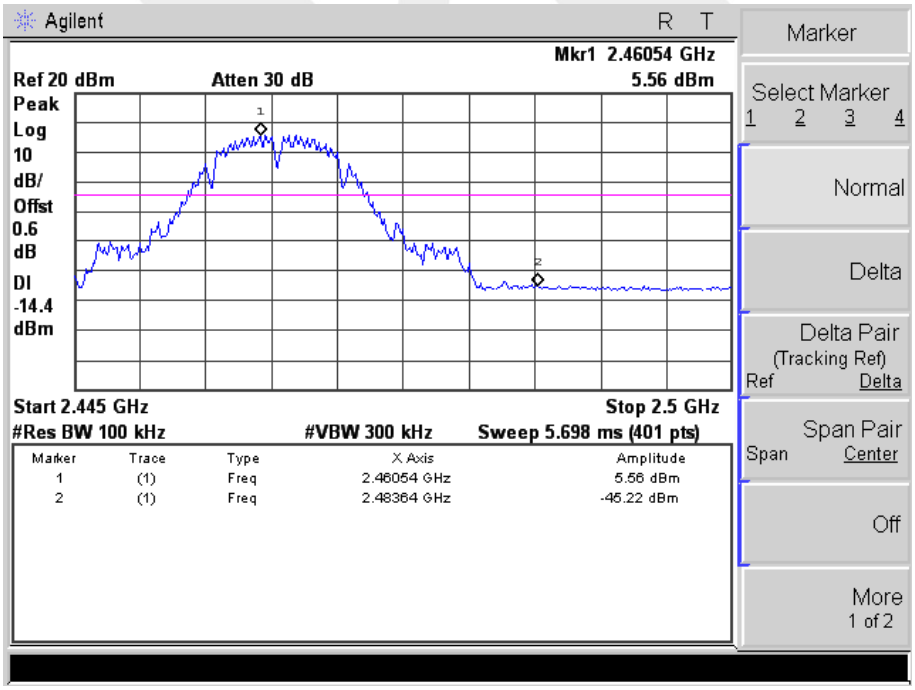

Agilent
R T
Mkr1 2.465 GHz
Ref 20 dBm
Atten 30 dB
6.543 dBm
#Peak
Log
10
dB/
Offst
0.6
dB
Dl
-13.5
dBm
Start 30 MHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.465 GHz 6.543 dBm
2 (1) Freq 13.157 GHz -44.52 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

Band edge

CH 01

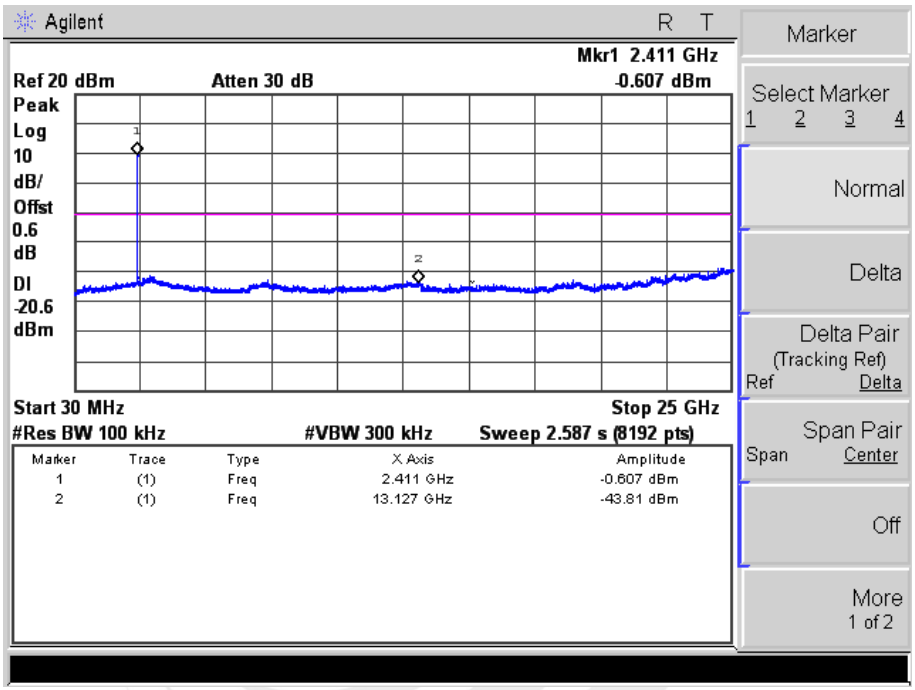


CH 11

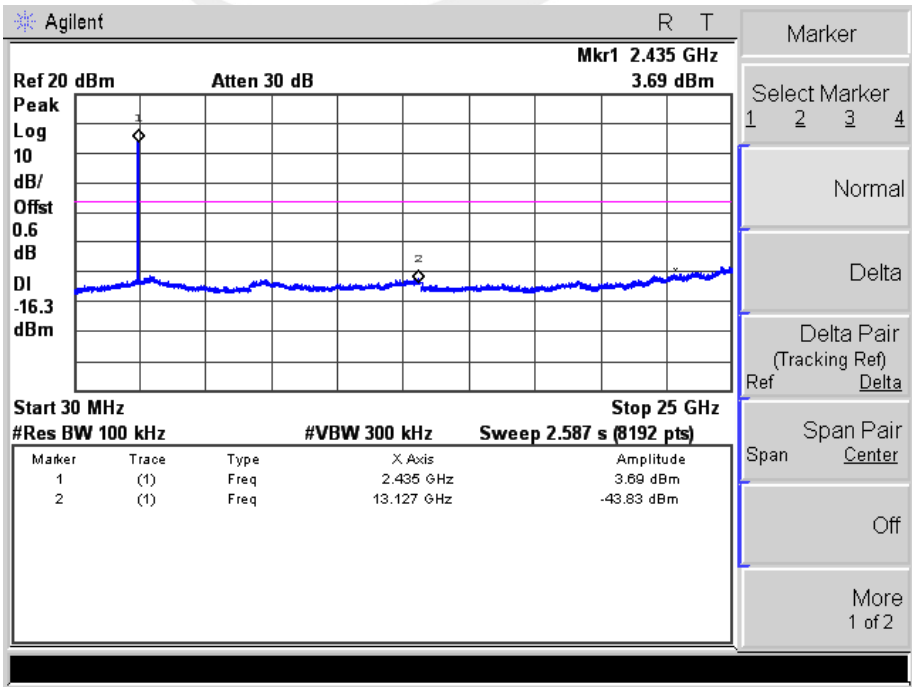


EUT：	Smart Phone	Model Name ：	Y210D
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX g Mode /CH01, CH06, CH11		

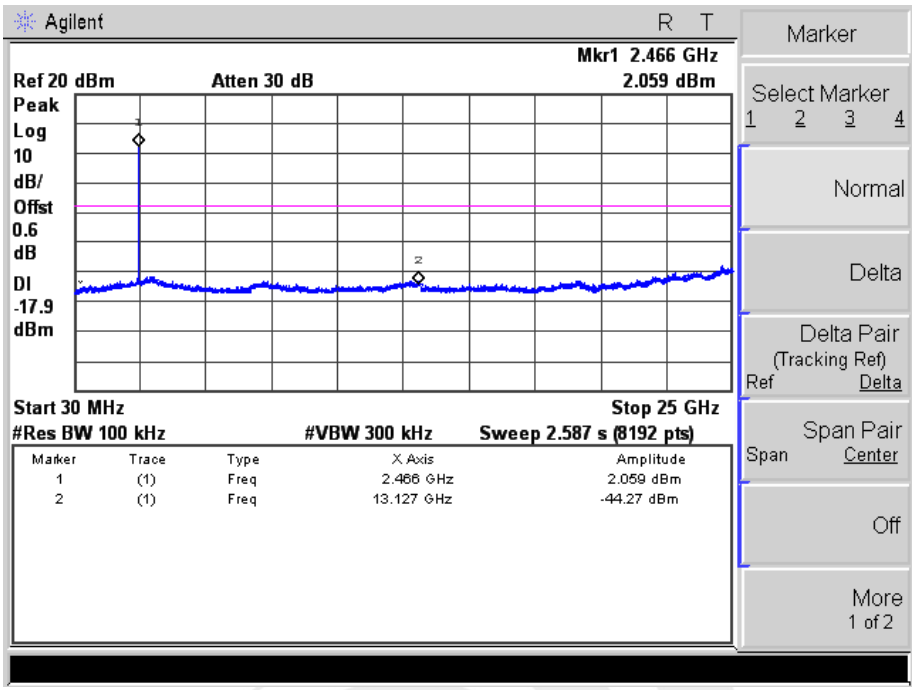
CH 01



CH06

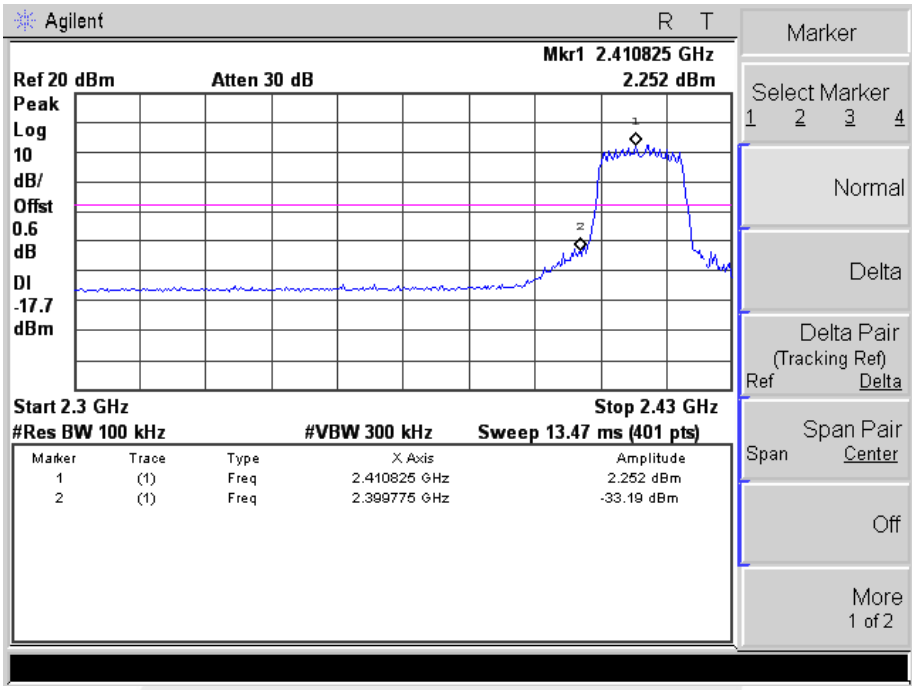


CH 11

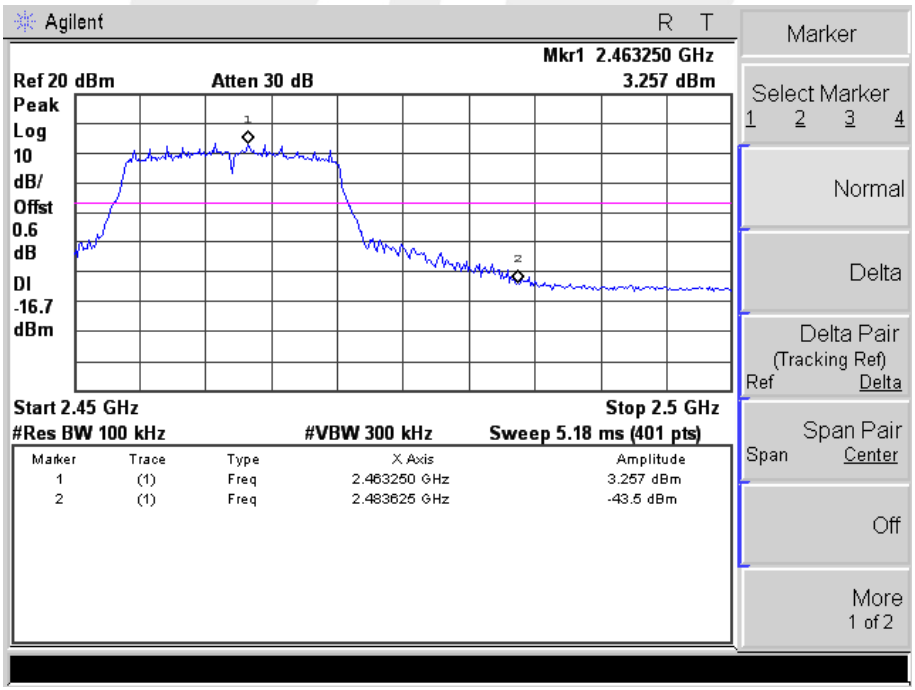

Agilent
R T
Mkr1 2.466 GHz
Ref 20 dBm
Atten 30 dB
2.059 dBm
Peak
Log
10
dB/
Offst
0.6
dB
Dl
-17.9
dBm
Start 30 MHz
Stop 25 GHz
#Res BW 100 kHz
#VBW 300 kHz
Sweep 2.587 s (8192 pts)
Marker Trace Type X Axis Amplitude
1 (1) Freq 2.466 GHz 2.059 dBm
2 (1) Freq 13.127 GHz -44.27 dBm
Marker
Select Marker
1 2 3 4
Normal
Delta
Delta Pair
(Tracking Ref)
Ref Delta
Span Pair
Span Center
Off
More
1 of 2

Band edge

CH 01



CH11



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

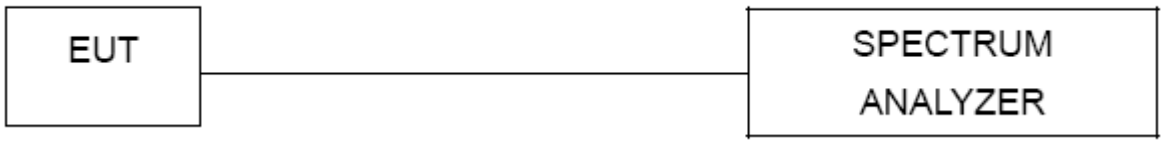
5.2 TEST PROCEDURE

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 ≥ 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

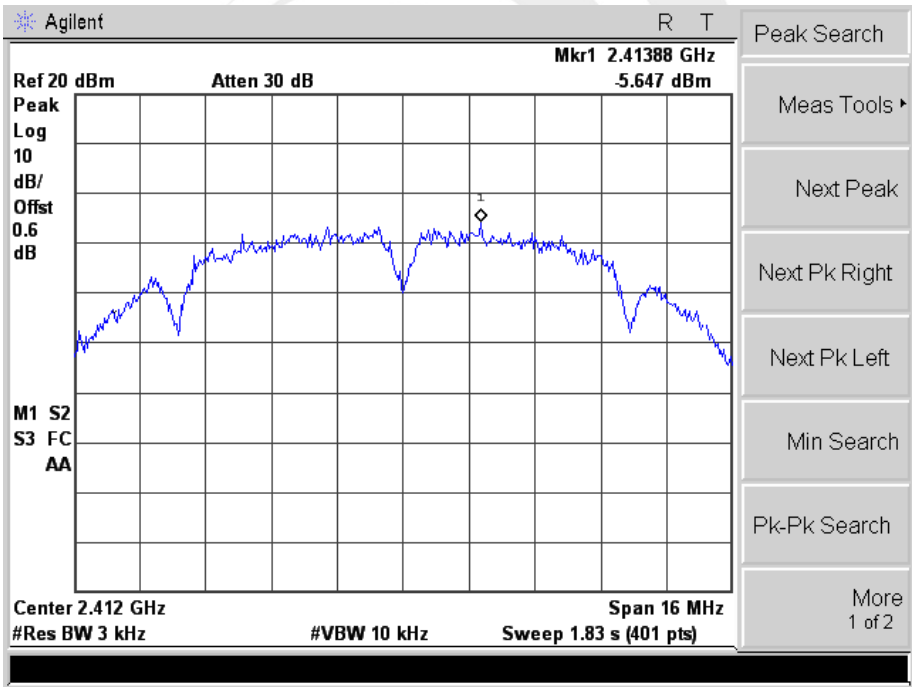
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

5.6 TEST RESULTS

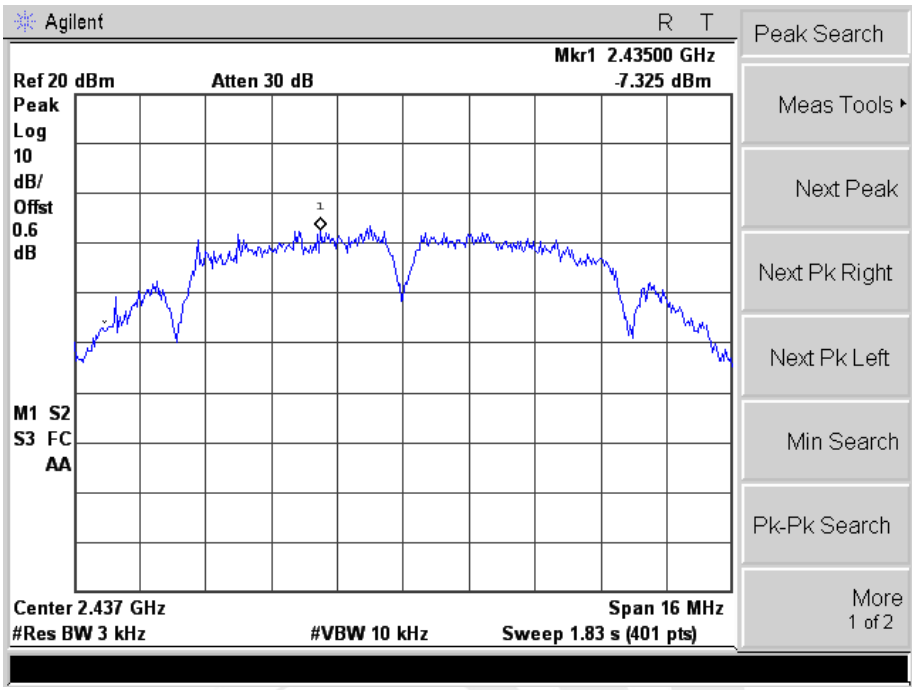
EUT：	Smart Phone	Model Name ：	Y210D
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-5.647	8	PASS
2437 MHz	-7.325	8	PASS
2462 MHz	-7.797	8	PASS

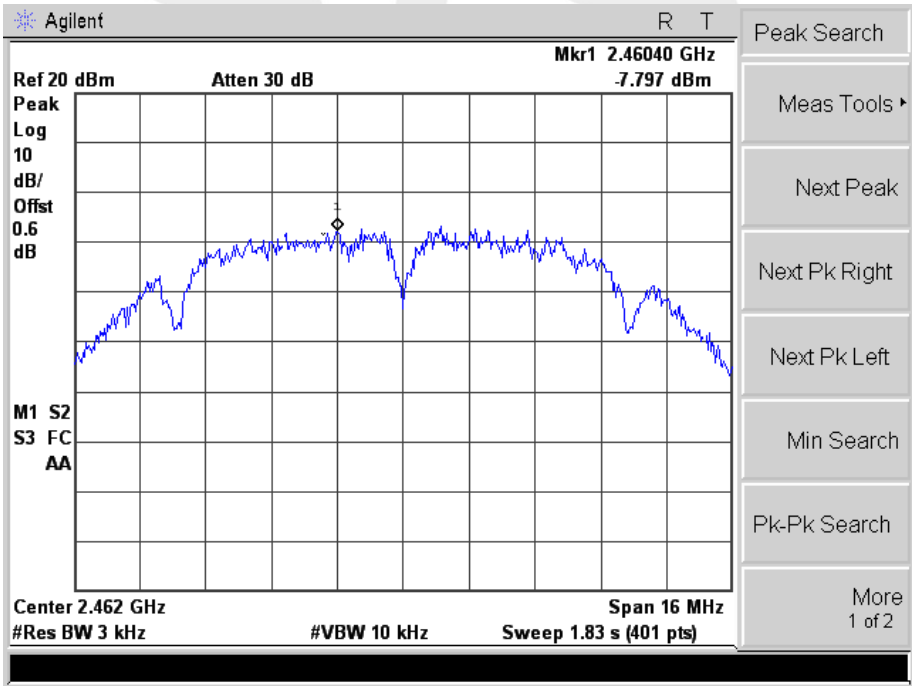
TX CH01



TX CH06



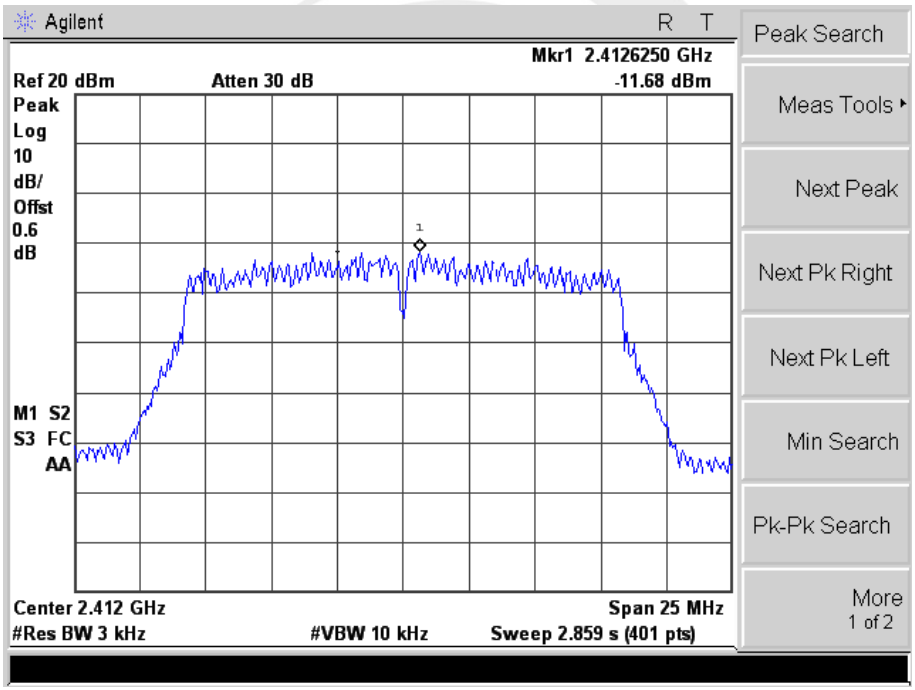
TX CH11



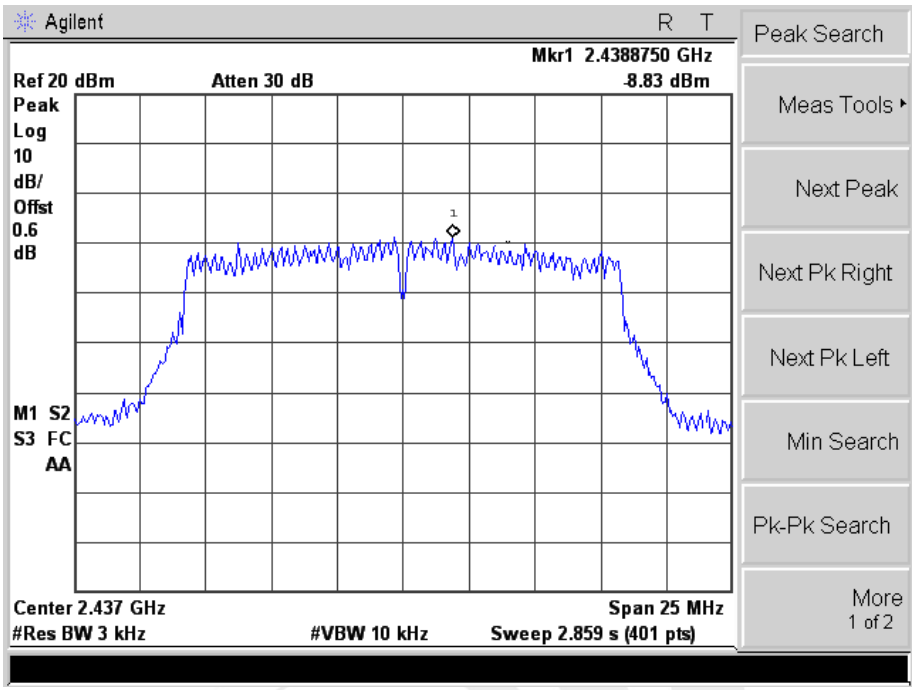
EUT：	Smart Phone	Model Name ：	Y210D
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-11.68	8	PASS
2437 MHz	-8.83	8	PASS
2462 MHz	-10.26	8	PASS

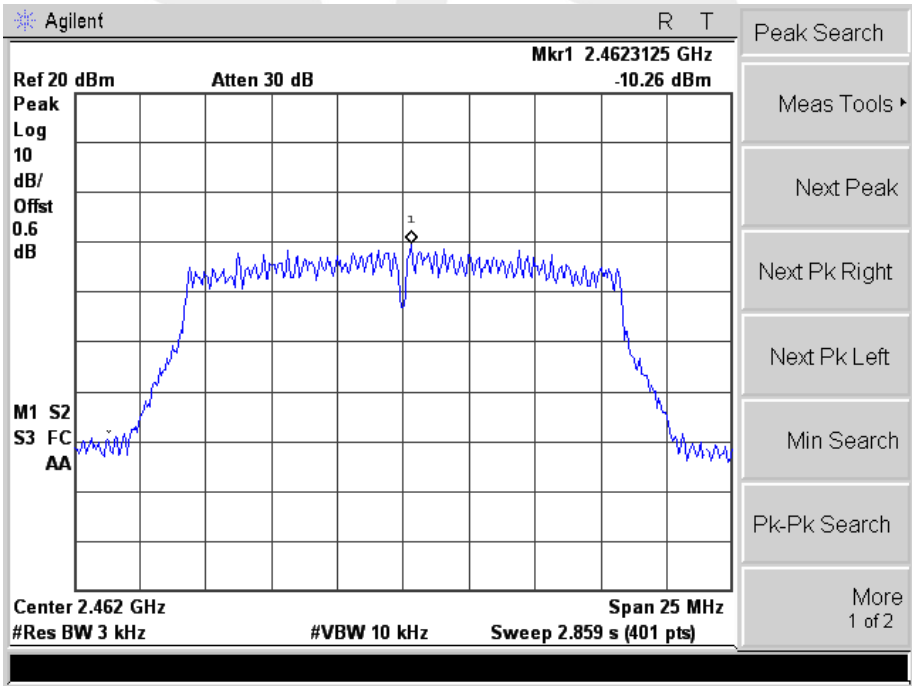
TX CH01



TX CH06



TX CH11



6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

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

6.2 TEST PROCEDURE

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

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP

6.5 EUT OPERATION CONDITIONS

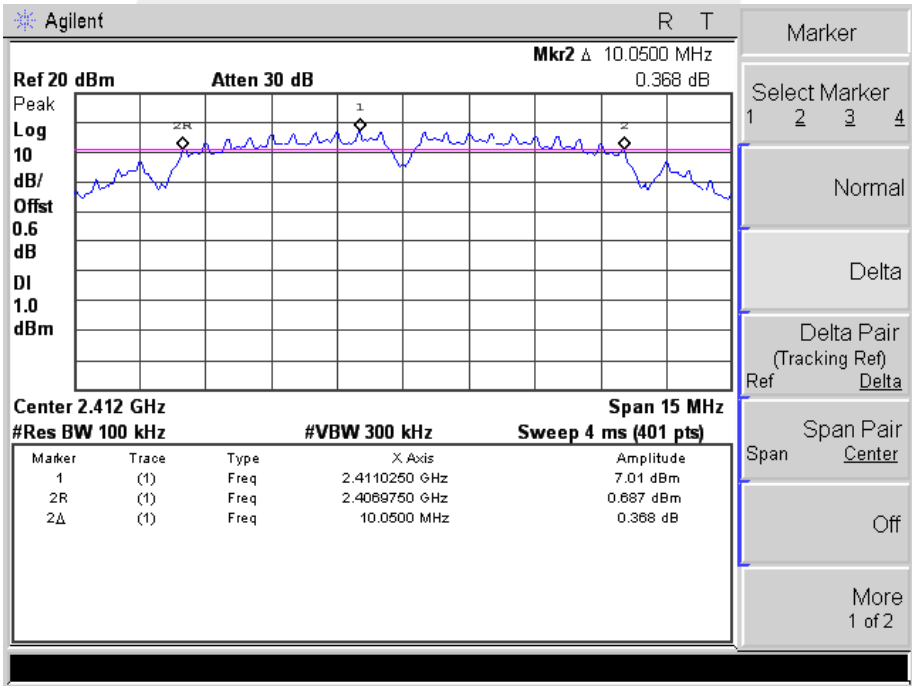
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

6.6 TEST RESULTS

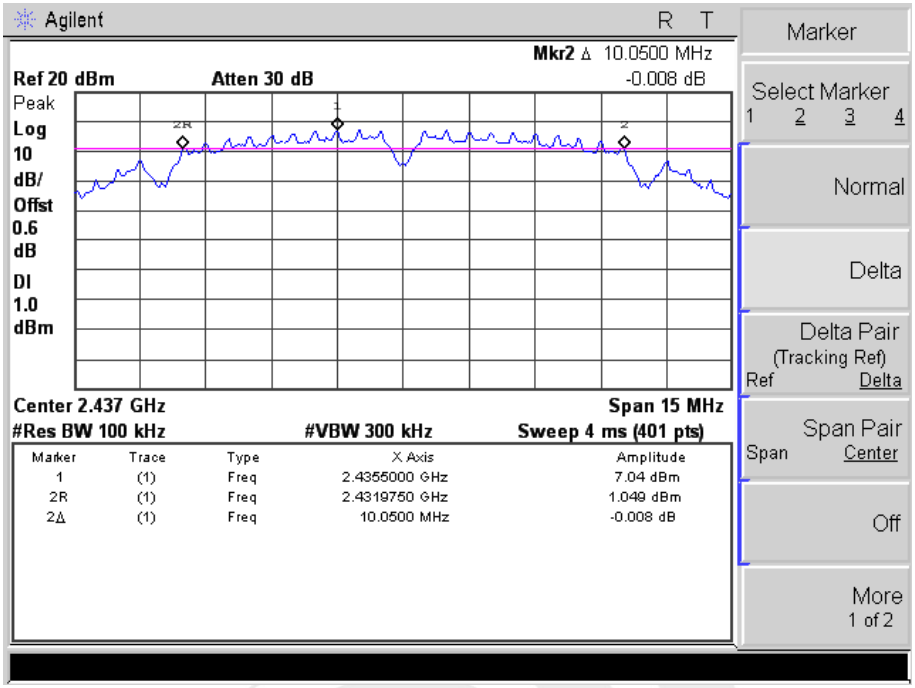
EUT：	Smart Phone	Model Name ：	Y210D
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX b Mode /CH01, CH06, CH11		

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

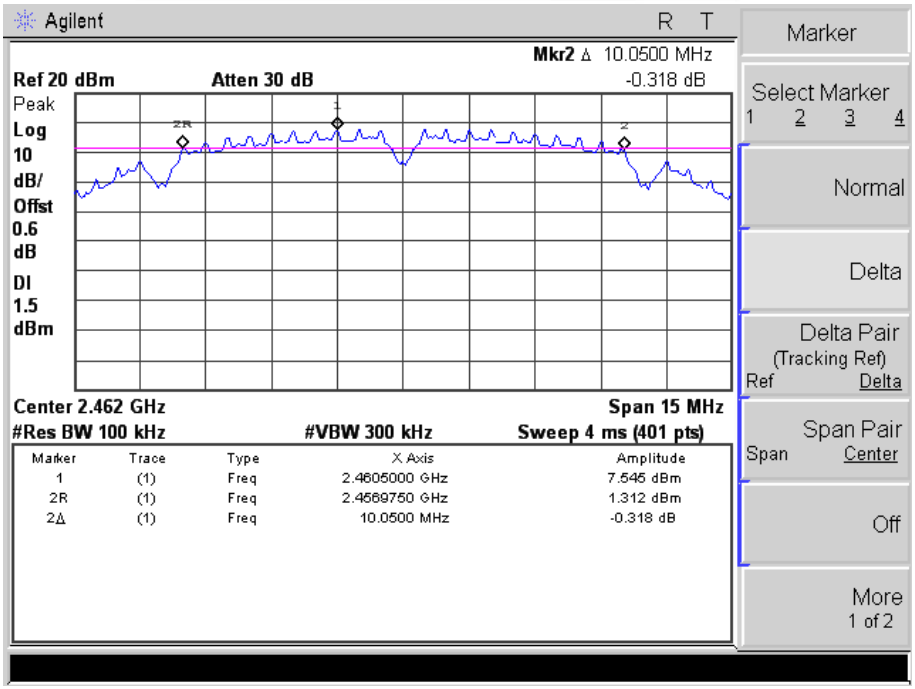
TX CH 01



TX CH 06



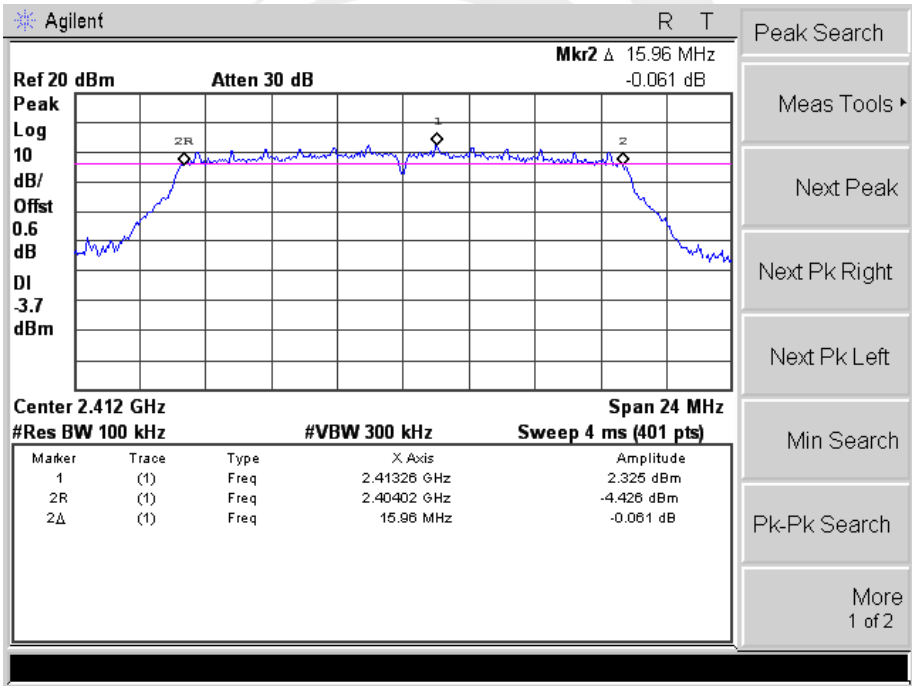
TX CH 11



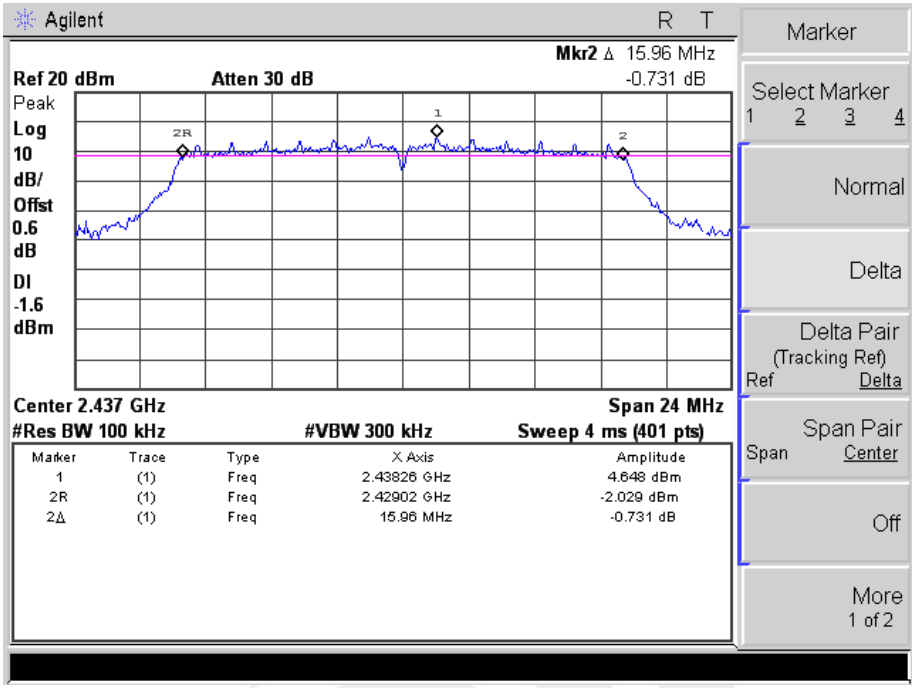
EUT：	Smart Phone	Model Name ：	Y210D
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX g Mode /CH01, CH06, CH11		

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

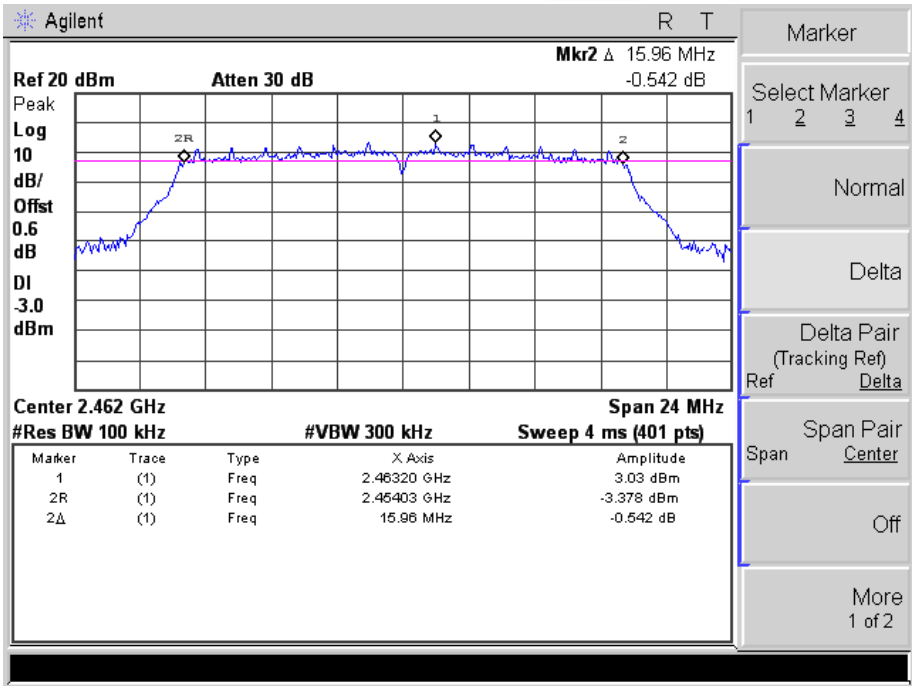
TX CH 01



TX CH 06



TX CH 11



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

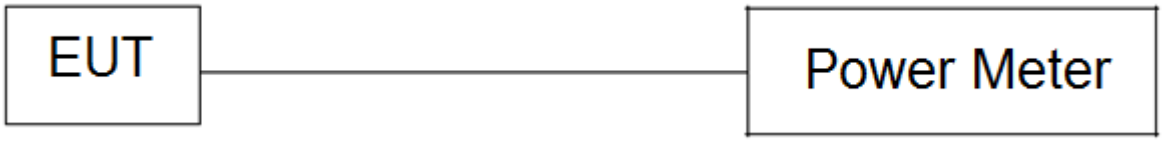
7.2 TEST PROCEDURE

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

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 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.

7.6 TEST RESULTS

EUT：	Smart Phone	Model Name ：	Y210D
Temperature：	25 ℃	Relative Humidity：	60%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX b/g Mode /CH01, CH06, CH11		

TX 802.11b Mode			
Test Channe	Frequency (MHz)	Peak Conducted Output Power (dBm)	LIMIT dBm
CH01	2412	12.91	30
CH06	2437	13.23	30
CH11	2462	12.84	30

TX 802.11g Mode			
Test Channe	Frequency (MHz)	Peak Conducted Output Power (dBm)	LIMIT dBm
CH01	2412	9.25	30
CH06	2437	9.90	30
CH11	2462	9.89	30

8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

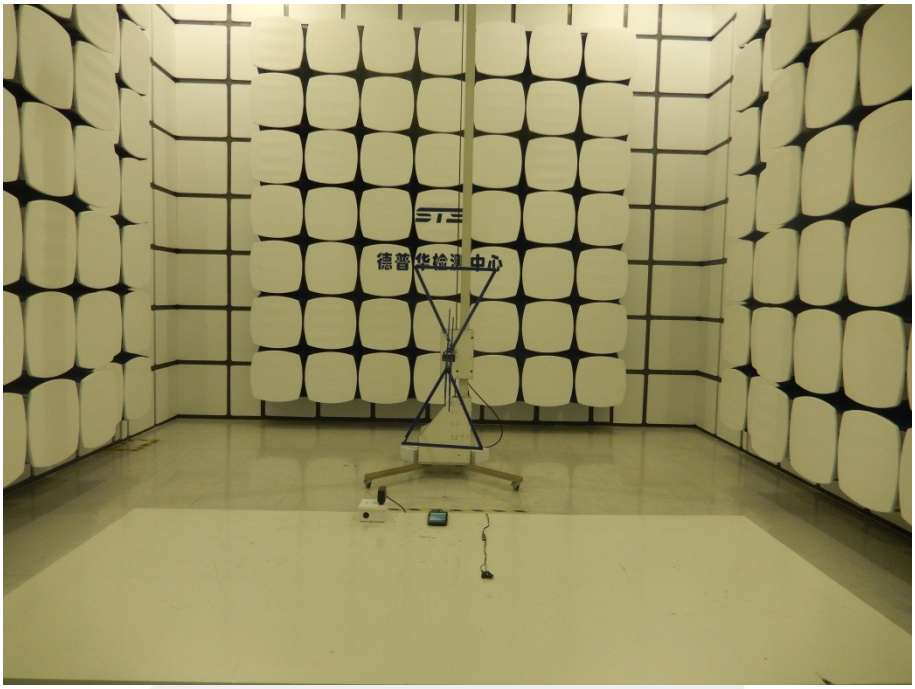
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

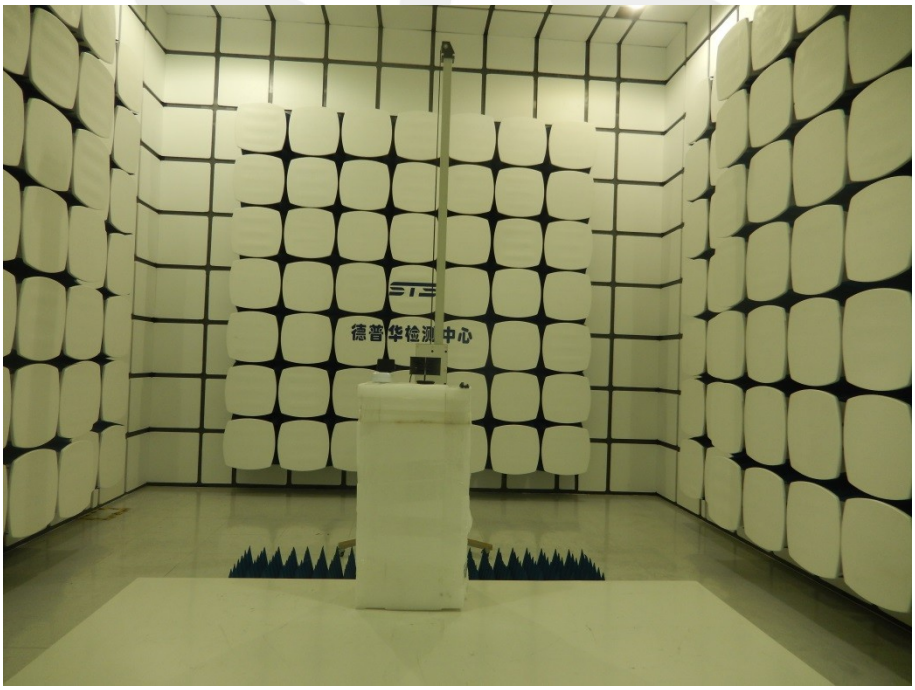
8.2 EUT ANTENNA

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

APPENDIX - PHOTOS OF TEST SETUP

Radiated Measurement Photos





Conducted Measurement Photos

※※※※※END OF THE REPORT※※※※※