FCC Part 15C Test Report

FCC ID: XHWEGQ178

Product Name:	**7.9 inch tablet**
Trademark:	**E-matic**
Model Name :	**EGQ178** **EGQ178BL, EGQ178BU, EGQ178PR, EGQ178PN, EGQ178RD**
Prepared For : Address :	**E-matic** 3435 Ocean Park Blvd # 107 PMB#444 Santa Monica CA 90405 Los Angeles, CA 90405.
Prepared By : Address :	**Shenzhen BCTC Technology Co., Ltd.** No.101,Yousong Road,Longhua New District, Shenzhen,China
Test Date:	**Feb. 03 - Feb. 16, 2015**
Date of Report :	**Feb. 20, 2015**
Report No.:	**BCTC-150100527**

VERIFICATION OF COMPLIANCE

Applicant's name ..... : E-matic

Address ..... : 3435 Ocean Park Blvd # 107 PMB#444 Santa Monica CA 90405 Los Angeles, CA 90405.

Manufacture's Name..... : Shaghal Ltd

Address ..... : 2231 Colby Ave. L.A., C.A., 90064 U.S.A

Product description

Product name ..... : 7.9 inch tablet

Trademark: E-matic

Model Name: EGQ178

Test procedure FCC Part15.247

Standards ANSI C63.4-2003

This device described above has been tested by BCTC, 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 .....: Feb. 03 - Feb. 16, 2015

Date of Issue.....: Feb. 16, 2015

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

Testing Engineer : Eric Yang

(Eric Yang)

Technical Manager : Sophie Lee

(Sophia Lee)

Authorized Signatory : Carson. Zhang

SHENZHEN BCTC TECHNOLOGY CO., LTD. APPROVED

(Carson. Zhang)

Table of Contents

Page

1 . SUMMARY OF TEST RESULTS 5

1.1 TEST FACILITY 6

1.2 MEASUREMENT UNCERTAINTY 6

2 . GENERAL INFORMATION 7

2.1 GENERAL DESCRIPTION OF EUT 7

2.2 DESCRIPTION OF TEST MODES 9

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED 10

2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE) 11

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS 12

3 . EMC EMISSION TEST 13

3.1 CONDUCTED EMISSION MEASUREMENT 13

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS 13

3.1.2 TEST PROCEDURE 14

3.1.3 DEVIATION FROM TEST STANDARD 14

3.1.4 TEST SETUP 14

3.1.5 EUT OPERATING CONDITIONS 14

3.1.6 TEST RESULTS 15

3.2 RADIATED EMISSION MEASUREMENT 17

3.2.1 RADIATED EMISSION LIMITS 17

3.2.2 TEST PROCEDURE 18

3.2.3 DEVIATION FROM TEST STANDARD 18

3.2.4 TEST SETUP 19

3.2.5 EUT OPERATING CONDITIONS 20

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ) 21

3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ) 22

3.2.8 TEST RESULTS (ABOVE 1000 MHZ) 24

4 . POWER SPECTRAL DENSITY TEST 46

4.1 APPLIED PROCEDURES / LIMIT 46

4.1.1 TEST PROCEDURE 46

4.1.2 DEVIATION FROM STANDARD 46

4.1.3 TEST SETUP 46

Table of Contents

	Page
4.1.4 EUT OPERATION CONDITIONS	46
4.1.5 TEST RESULTS	47
5 . BANDWIDTH TEST	56
5.1 APPLIED PROCEDURES / LIMIT	56
5.1.1 TEST PROCEDURE	56
5.1.2 DEVIATION FROM STANDARD	56
5.1.3 TEST SETUP	56
5.1.4 EUT OPERATION CONDITIONS	56
5.1.5 TEST RESULTS	57
6 . PEAK OUTPUT POWER TEST	63
6.1 APPLIED PROCEDURES / LIMIT	63
6.1.1 TEST PROCEDURE	63
6.1.2 DEVIATION FROM STANDARD	63
6.1.3 TEST SETUP	63
6.1.4 EUT OPERATION CONDITIONS	63
6.1.5 TEST RESULTS	64
7 . ANTENNA REQUIREMENT	65
7.1 STANDARD REQUIREMENT	65
7.2 EUT ANTENNA	65
8 . EUT TEST PHOTO	66
APPENDIX-PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	

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)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	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 BCTC Technology Co., Ltd.
Add.:No.101,Yousong Road,Longhua New District, Shenzhen,China
FCC Registration No.:187086

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 Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

<table>
<tr><td>Equipment</td><td>7.9 inch tablet</td></tr>
<tr><td>Trademark</td><td>E-matic</td></tr>
<tr><td>Model Name</td><td>EGQ178</td></tr>
<tr><td>Serial Model</td><td>EGQ178BL, EGQ178BU, EGQ178PR, EGQ178PN, EGQ178RD</td></tr>
<tr><td>Model Difference</td><td>All the same,Only model name is different</td></tr>
<tr><td>Product Description</td><td>The EUT is a 7.9 inch tablet
<table>
<tr><td>Operation Frequency:</td><td>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:54/48/36/24/18/12/9/6 Mbps
802.11n:72.2/52/6.5 Mbps</td></tr>
<tr><td>Number Of Channel</td><td>11 CH, Please see Note 2.</td></tr>
<tr><td>Antenna Designation:</td><td>Please see Note 3.</td></tr>
<tr><td>Output Power(Conducted):</td><td>802.11b: 8.87 dBm (Max.)
802.11g: 6.51 dBm (Max.)
802.11n: 5.52 dBm (Max.)</td></tr>
</table>
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.</td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 2.</td></tr>
<tr><td>Adapter</td><td>Model:PGAE0500200U1UL
AC Power Input: 100-240V~, 50/60Hz, 0.3A
Output: 5.0V⎓, 2.0A</td></tr>
<tr><td>Battery</td><td>DC3.7V</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/n							
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	FPCB antenna	N/A	1.0	Wifi Antenna

2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n CH1/ CH6/ CH11
Mode 4	WIFI Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 4	WIFI 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

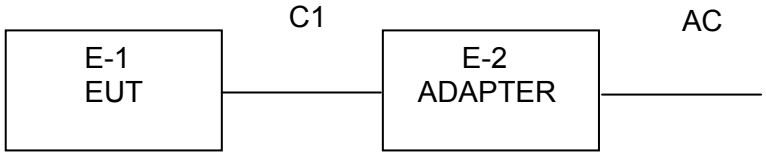
Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

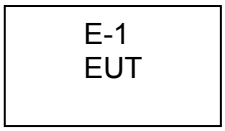
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted Emission Test



Radiated Spurious Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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	7.9 inch tablet	N/A	EGQ178	N/A	EUT
E-2	Adapter	N/A	PGAE0500200U1UL	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	0.9M	

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

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45109572	2014.08.25	2015.08.24	1 year
2	Test Receiver	R&S	ESPI	101396	2014.08.25	2015.08.24	1 year
3	Bilog Antenna	SCHWARZBECK	VULB9160	VULB9160-3369	2014.08.25	2015.08.24	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2014.06.07	2015.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2014.06.07	2015.06.06	1 year
6	Horn Antenna	SCHWARZBECK	9120D	9120D-1275	2014.08.25	2015.08.24	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05	1 year
8	Amplifier	SCHWARZBECK	BBV9718	9718-270	2014.08.25	2015.08.24	1 year
9	Amplifier	SCHWARZBECK	BBV9743	9743-119	2014.08.25	2015.08.24	1 year
10	Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07	1 year
11	Power Meter	R&S	NRVS	100696	2014.07.06	2015.07.05	1 year
12	Power Sensor	R&S	URV5-Z4	0395.1619.05	2014.07.06	2015.07.05	1 year
13	RF cables	R&S	N/A	N/A	2014.07.06	2015.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101421	2014.08.25	2015.08.24	1 year
2	LISN	SCHWARZBECK	NSLK8127	812779	2014.08.25	2015.08.24	1 year
3	LISN	EMCO	Feb-16	42990	2014.08.24	2015.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2014.06.07	2015.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2014.06.07	2015.06.06	1 year

3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

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

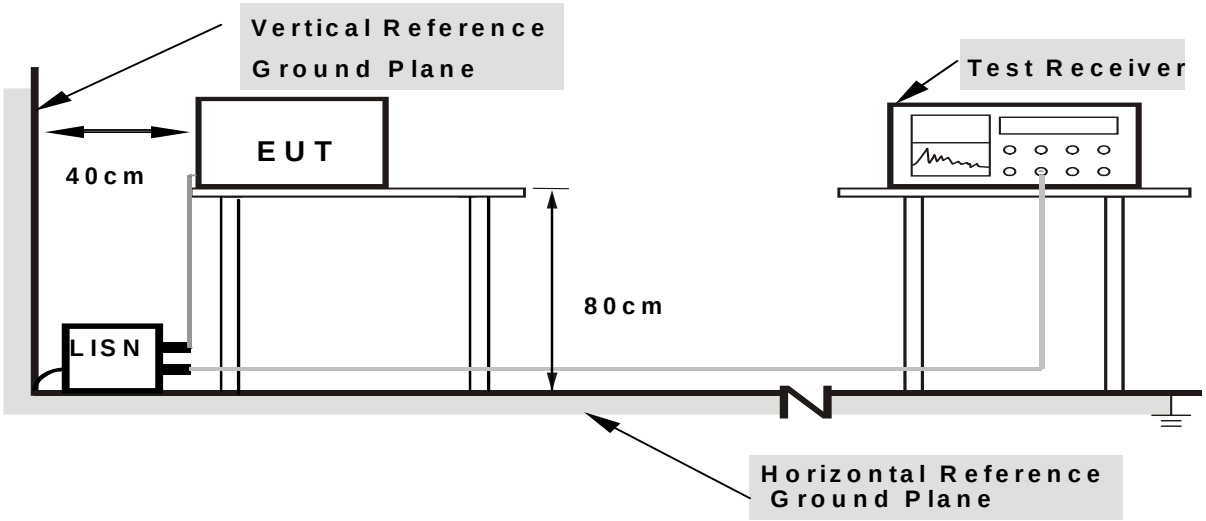
3.1.2 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
d. LISN at least 80 cm from nearest part of EUT chassis.
e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

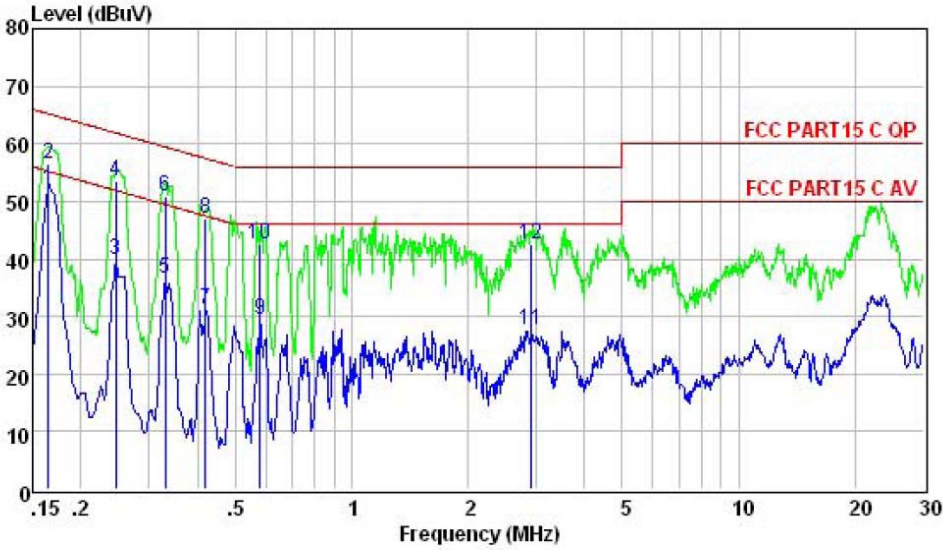
3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

3.1.6 TEST RESULTS

EUT：	7.9 inch tablet	Model Name. ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	AC 120V/60Hz	Test Mode：	Mode 4

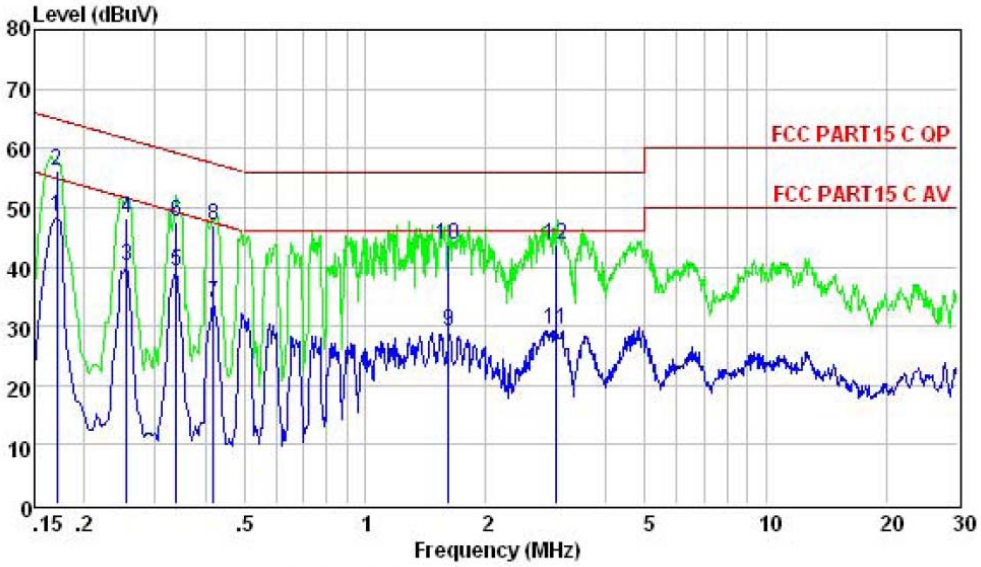
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



	Freq	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	
1	0.165	52.14	55.21	-3.07	Average
2	0.165	56.65	65.21	-8.56	QP
3	0.246	39.82	51.91	-12.09	Average
4	0.246	53.65	61.91	-8.26	QP
5	0.330	36.61	49.44	-12.83	Average
6	0.330	50.78	59.44	-8.66	QP
7	0.419	31.26	47.46	-16.20	Average
8	0.419	46.98	57.46	-10.48	QP
9	0.579	29.57	46.00	-16.43	Average
10	0.579	42.65	56.00	-13.35	QP
11	2.915	27.58	46.00	-18.42	Average
12	2.915	42.65	56.00	-13.35	QP

EUT：	7.9 inch tablet	Model Name. ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	AC 120V/60Hz	Test Mode：	Mode 4

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



	Freq	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	
1	0.170	48.37	54.94	-6.57	Average
2	0.170	56.17	64.94	-8.77	QP
3	0.255	40.10	51.60	-11.50	Average
4	0.255	48.17	61.60	-13.43	QP
5	0.339	39.18	49.22	-10.04	Average
6	0.339	47.65	59.22	-11.57	QP
7	0.419	34.03	47.46	-13.43	Average
8	0.419	46.87	57.46	-10.59	QP
9	1.619	29.23	46.00	-16.77	Average
10	1.619	43.65	56.00	-12.35	QP
11	2.993	29.46	46.00	-16.54	Average
12	2.993	43.68	56.00	-12.32	QP

3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(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)

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

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

3.2.2 TEST PROCEDURE

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

Note:

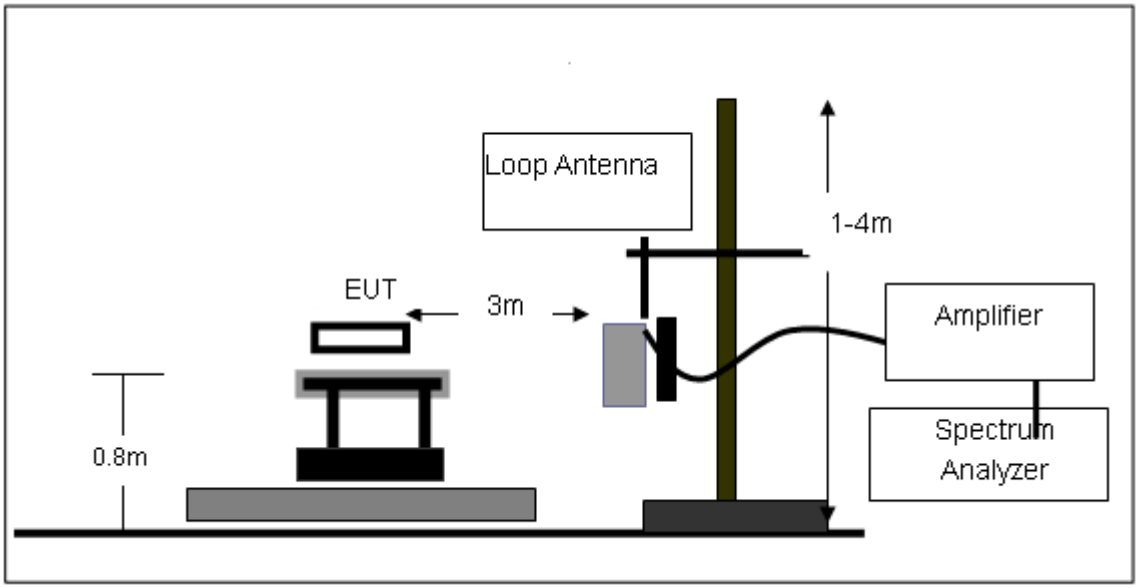
Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

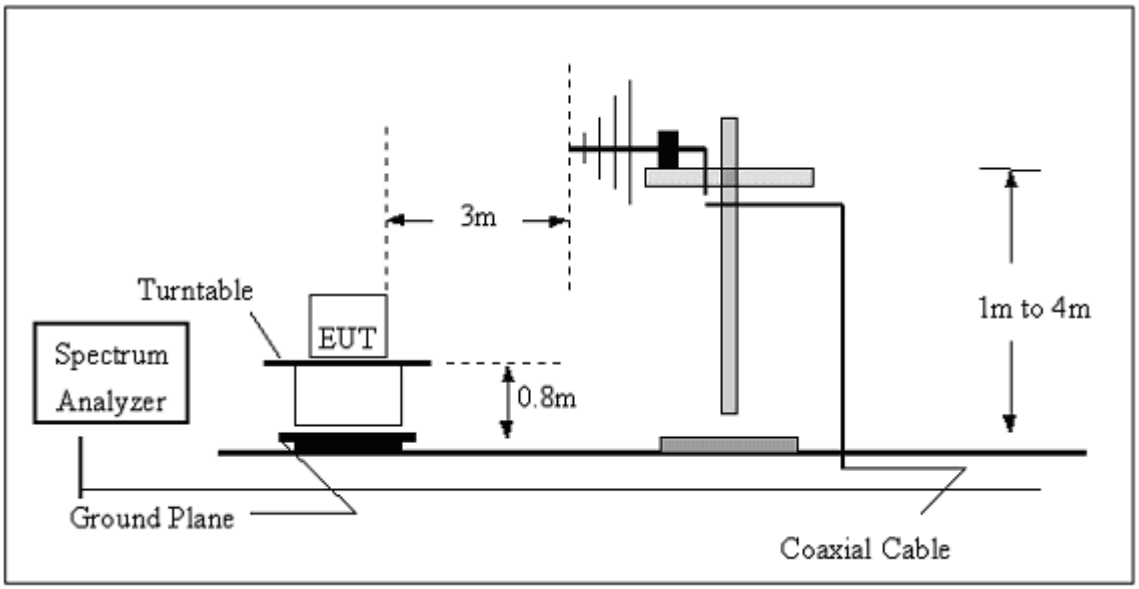
No deviation

3.2.4 TEST SETUP

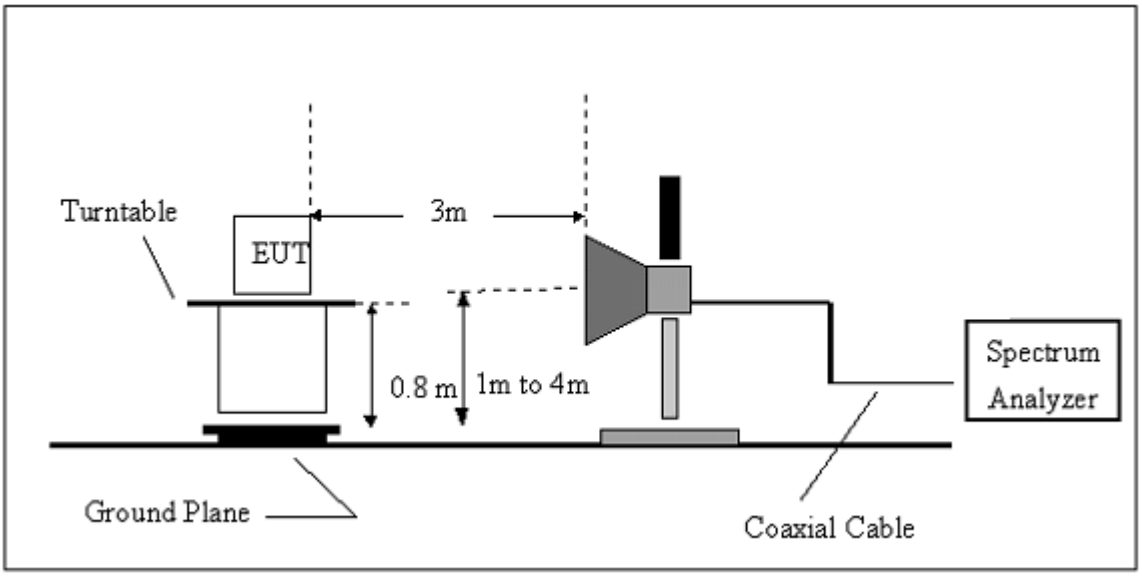
（A）Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BETWEEN 9KHZ – 30 MHZ)

EUT：	7.9 inch tablet	Model Name. ：	EGQ178
Temperature：	26 ℃	Relative Humidtity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX	Polarization :	--

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

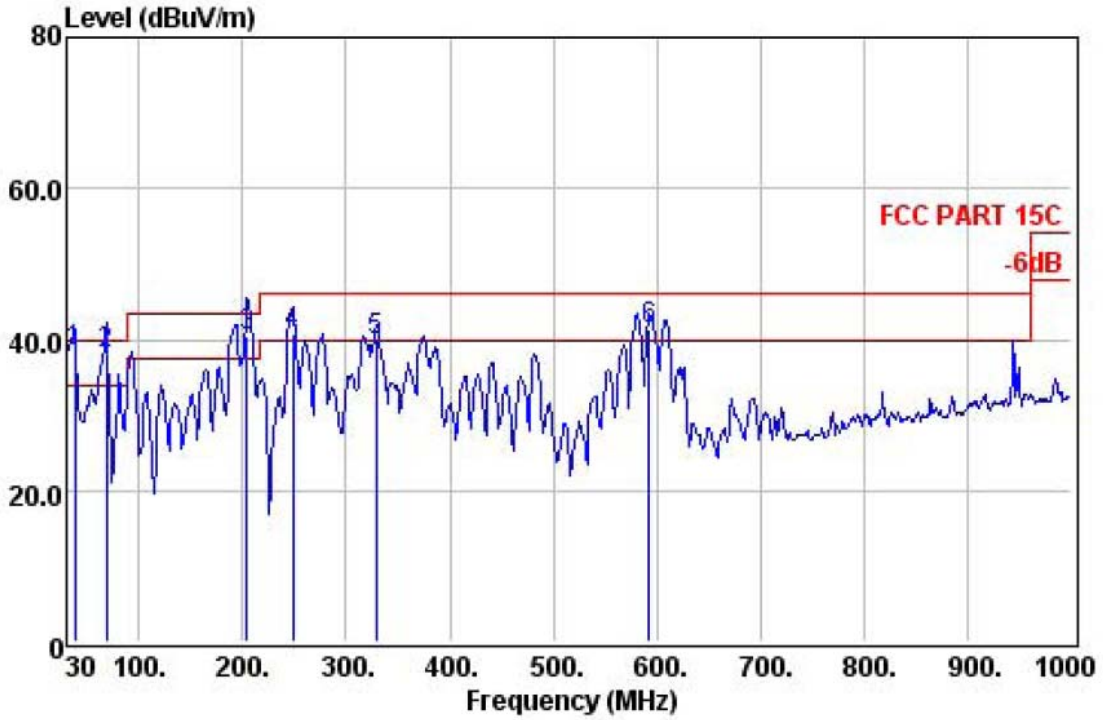
NOTE:

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

3.2.7 TEST RESULTS (BETWEEN 30MHZ – 1GHZ)

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX	Polarization :	Horizontal

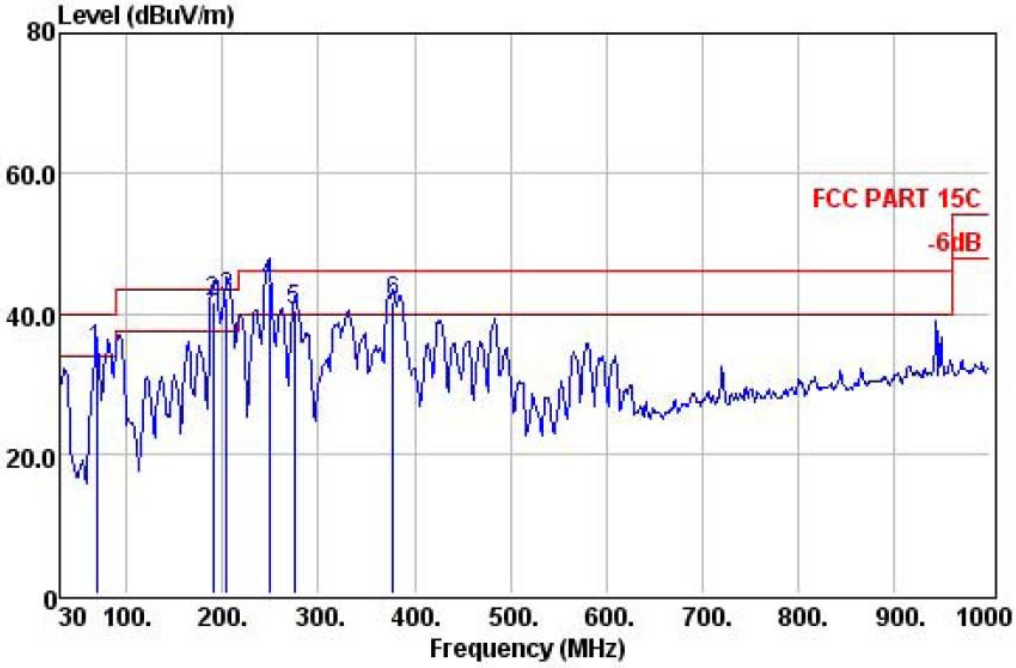
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



		Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
		MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	!	37.76	31.36	55.07	0.56	14.22	38.49	40.00	-1.51	QP
2	!	68.80	31.32	61.18	0.85	7.48	38.19	40.00	-1.81	QP
3	!	204.60	31.09	58.97	1.46	11.22	40.56	43.50	-2.94	QP
4	!	248.25	30.96	57.29	1.70	12.85	40.88	46.00	-5.12	QP
5		328.76	30.79	53.98	2.02	14.65	39.86	46.00	-6.14	QP
6	!	592.60	30.68	48.49	3.29	20.36	41.46	46.00	-4.54	QP

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX	Polarization :	Vertical

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

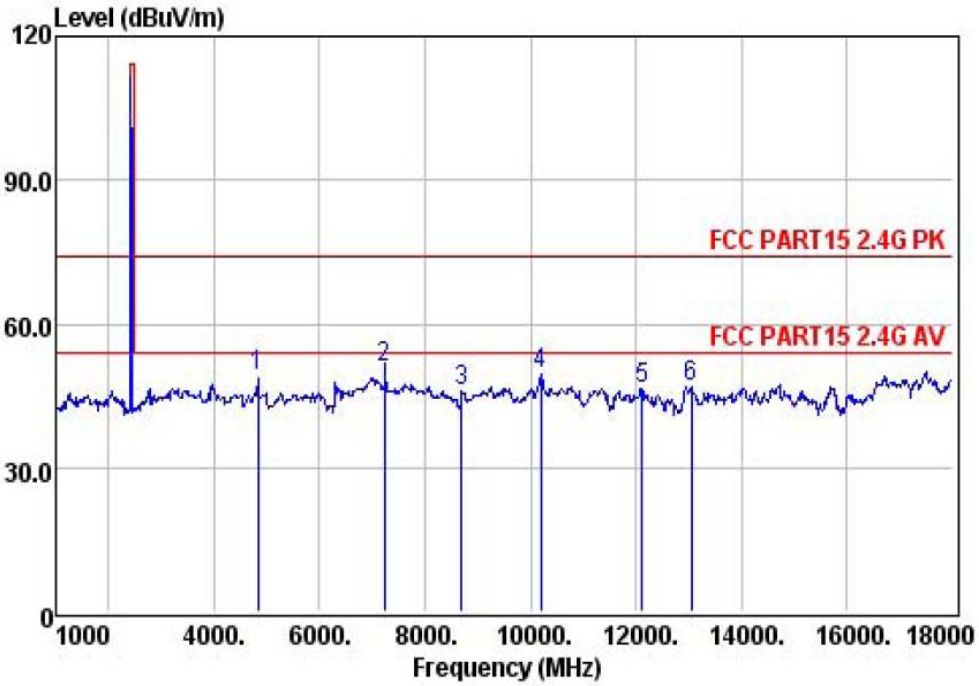


	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1 !	68.80	31.32	57.67	0.85	7.48	34.68	40.00	-5.32	QP
2 !	190.05	31.12	61.33	1.39	10.10	41.70	43.50	-1.80	QP
3 !	204.60	31.09	60.69	1.46	11.22	42.28	43.50	-1.22	QP
4 !	248.25	30.96	60.74	1.70	12.85	44.33	46.00	-1.67	QP
5 !	274.44	30.95	56.64	1.78	13.00	40.47	46.00	-5.53	QP
6 !	378.23	30.62	53.71	2.27	16.20	41.56	46.00	-4.44	QP

3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH1 (802.11b Mode)	Polarization :	Horizontal

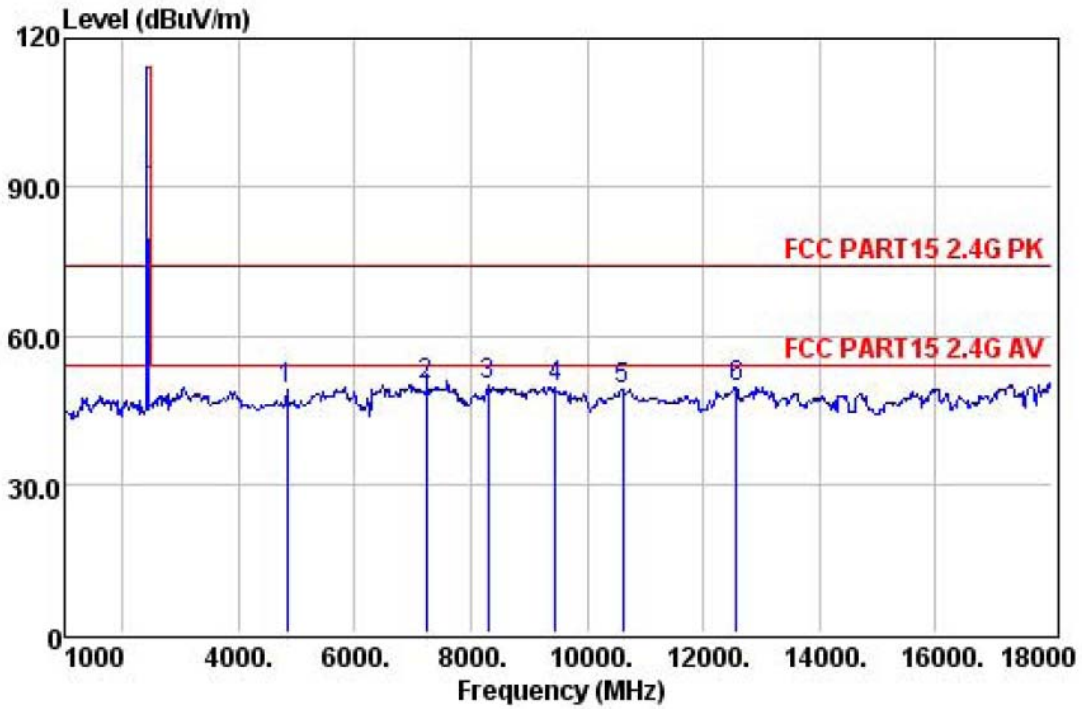
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4824.00	27.50	31.69	12.01	32.99	49.19	74.00	-24.81	Peak
2	7236.00	27.95	24.71	16.61	37.30	50.67	74.00	-23.33	Peak
3	8701.00	28.31	20.32	16.81	37.04	45.86	74.00	-28.14	Peak
4	10197.00	28.82	22.52	17.00	38.72	49.42	74.00	-24.58	Peak
5	12118.00	29.02	18.63	17.47	39.42	46.50	74.00	-27.50	Peak
6	13053.00	29.21	16.72	18.28	40.94	46.73	74.00	-27.27	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH1 (802.11b Mode)	Polarization :	Vertical

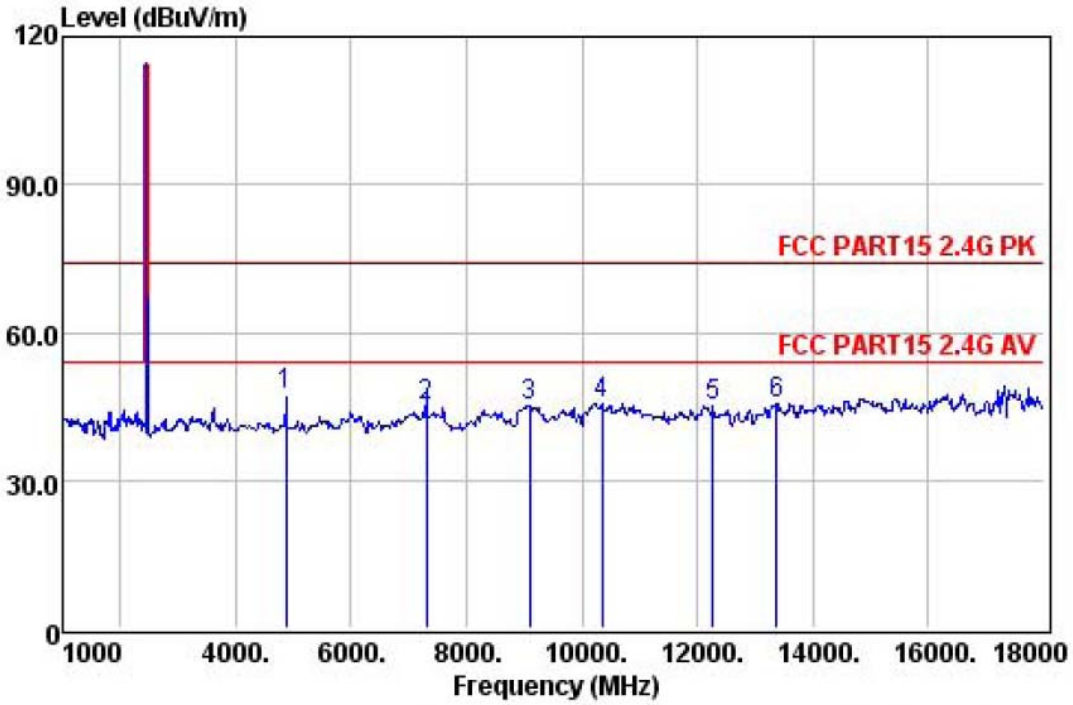
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remar
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4824.00	27.50	31.56	12.01	32.99	49.06	74.00	-24.94	Peak
2	7236.00	27.95	23.92	16.61	37.30	49.88	74.00	-24.12	Peak
3	8293.00	28.19	24.96	16.72	36.63	50.12	74.00	-23.88	Peak
4	9449.00	28.58	23.19	16.92	37.94	49.47	74.00	-24.53	Peak
5	10605.00	28.86	21.69	17.09	39.26	49.18	74.00	-24.82	Peak
6	12577.00	29.12	21.14	17.85	39.70	49.57	74.00	-24.43	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH6 (802.11b Mode)	Polarization :	Horizontal

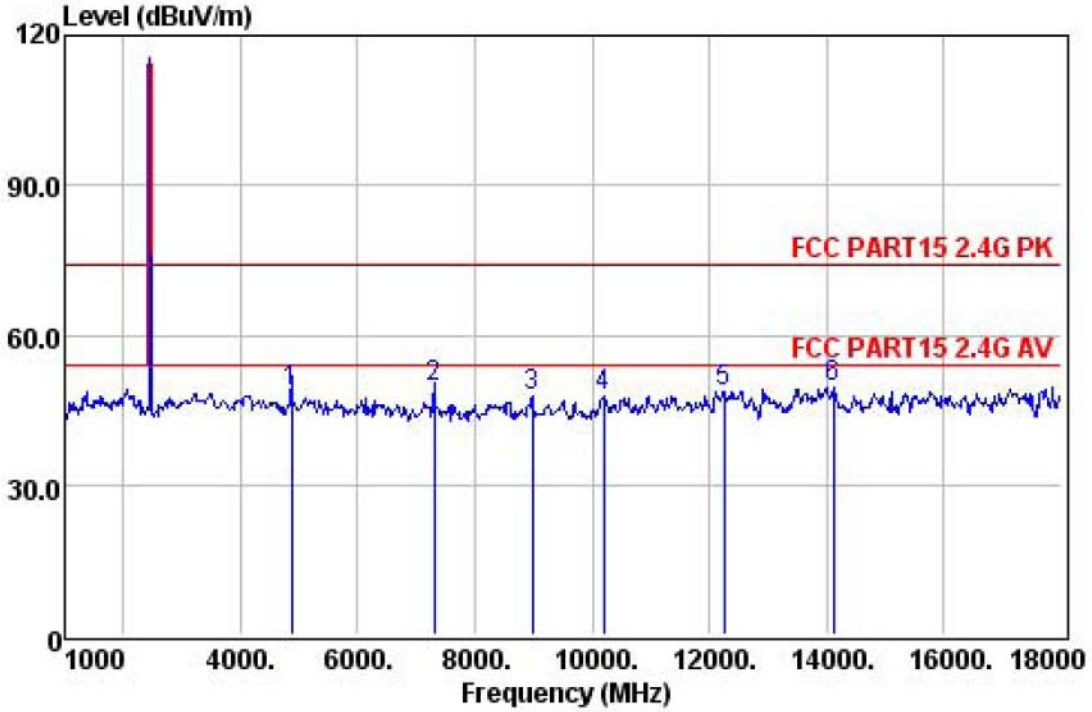
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4874.00	27.53	29.39	12.14	33.11	47.11	74.00	-26.89	Peak
2	7311.00	27.96	19.29	16.62	37.32	45.27	74.00	-28.73	Peak
3	9092.00	28.43	19.06	16.89	37.50	45.02	74.00	-28.98	Peak
4	10350.00	28.84	18.40	17.04	38.96	45.56	74.00	-28.44	Peak
5	12271.00	29.05	17.26	17.59	39.46	45.26	74.00	-28.74	Peak
6	13376.00	29.27	13.48	18.65	42.44	45.30	74.00	-28.70	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH6 (802.11b Mode)	Polarization :	Vertical

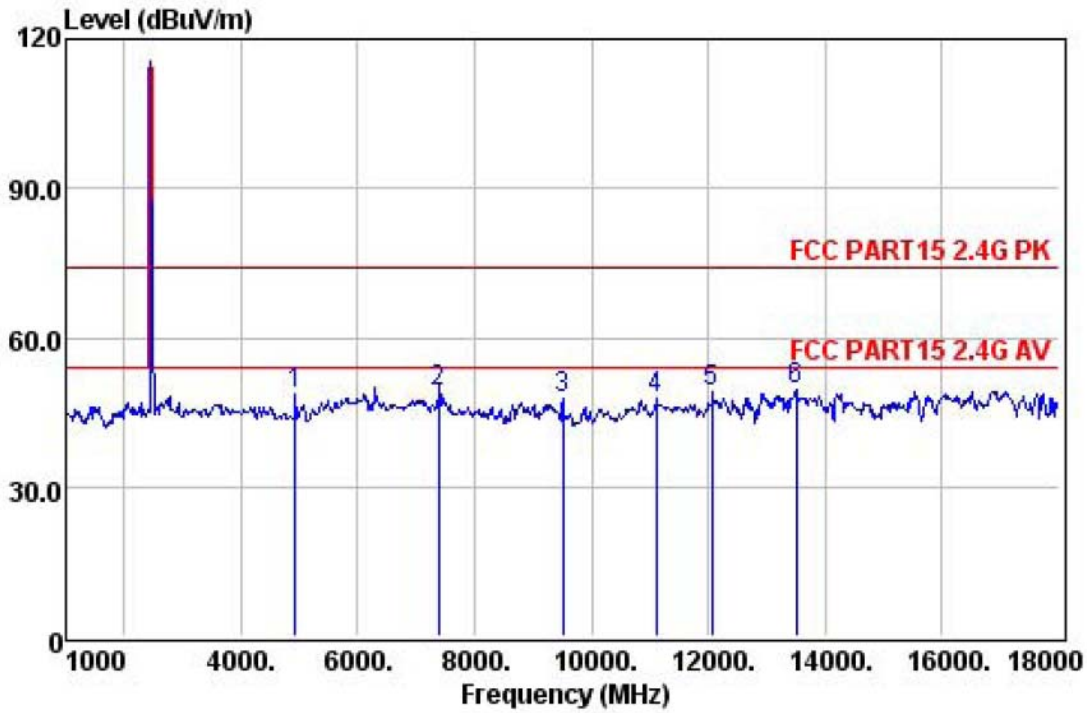
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4874.00	27.53	31.06	12.14	33.11	48.78	74.00	-25.22	Peak
2	7311.00	27.96	23.69	16.62	37.32	49.67	74.00	-24.33	Peak
3	8973.00	28.39	21.72	16.87	37.36	47.56	74.00	-26.44	Peak
4	10197.00	28.82	20.73	17.00	38.72	47.63	74.00	-26.37	Peak
5	12254.00	29.05	20.82	17.58	39.45	48.80	74.00	-25.20	Peak
6	14107.00	29.42	16.44	19.43	42.90	49.35	74.00	-24.65	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH11 (802.11b Mode)	Polarization :	Horizontal

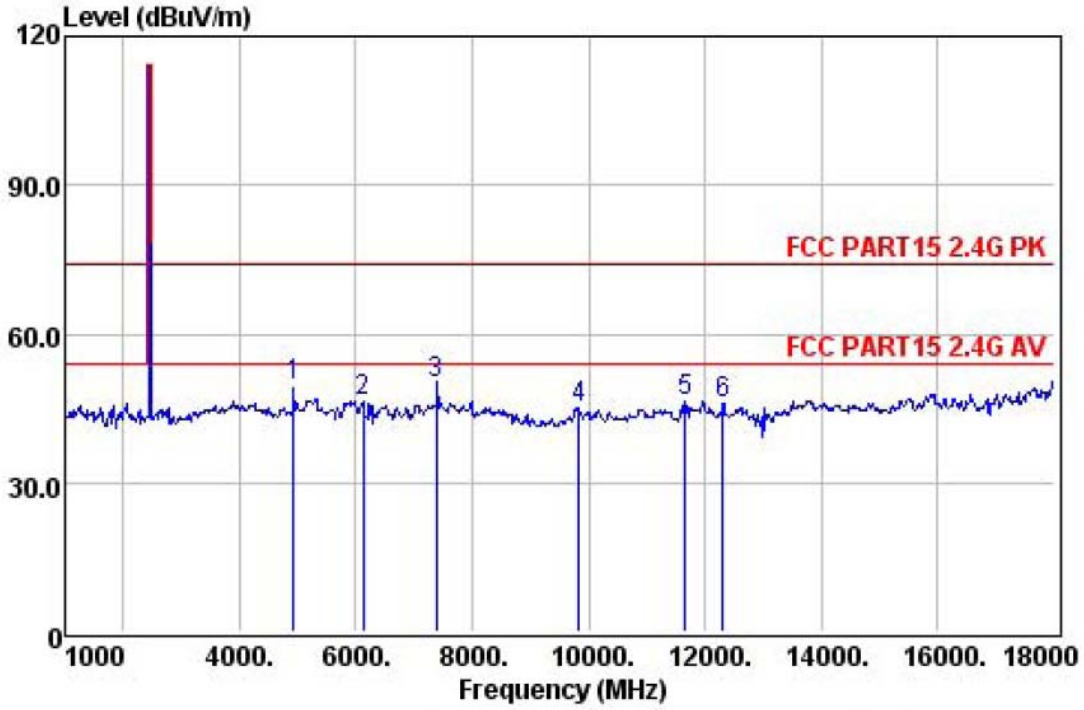
Remark:
1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
2. No emission detected above 18GHz



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4924.00	27.56	30.72	12.28	33.23	48.67	74.00	-25.33	Peak
2	7386.00	27.98	23.11	16.62	37.36	49.11	74.00	-24.89	Peak
3	9517.00	28.61	21.39	16.92	38.01	47.71	74.00	-26.29	Peak
4	11115.00	28.91	19.79	17.19	39.59	47.66	74.00	-26.34	Peak
5	12067.00	29.01	21.19	17.43	39.41	49.02	74.00	-24.98	Peak
6	13495.00	29.30	16.88	18.77	43.00	49.35	74.00	-24.65	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH11 (802.11b Mode)	Polarization :	Vertical

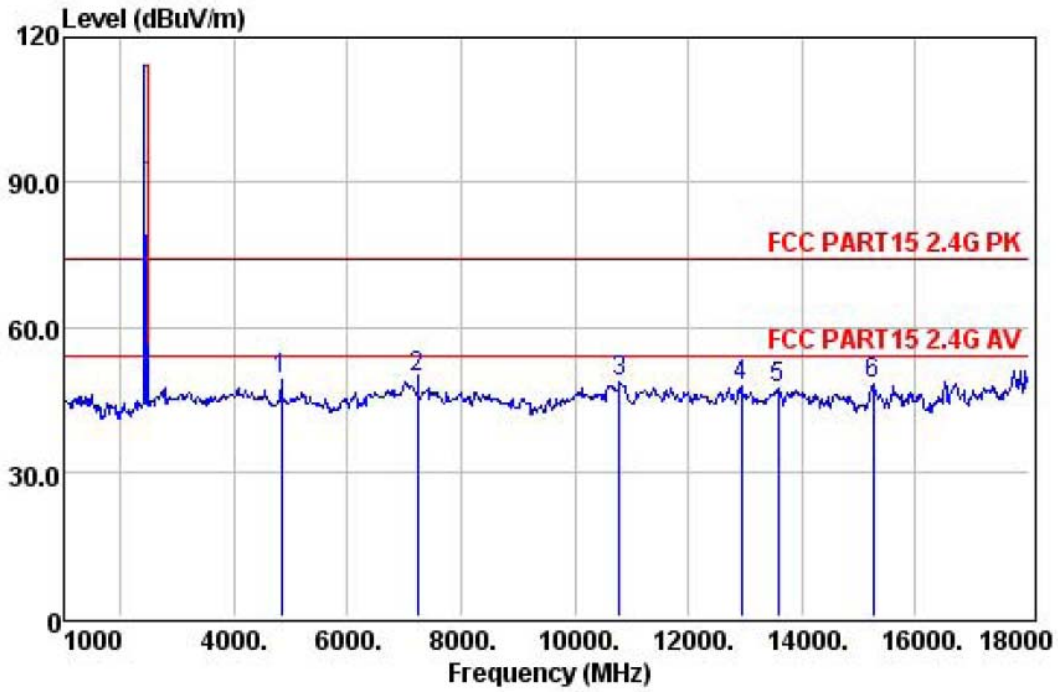
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4924.00	27.56	31.73	12.28	33.23	49.68	74.00	-24.32	Peak
2	6117.00	27.72	22.25	16.60	35.36	46.49	74.00	-27.51	Peak
3	7386.00	27.98	23.97	16.62	37.36	49.97	74.00	-24.03	Peak
4	9840.00	28.74	18.56	16.95	38.28	45.05	74.00	-28.95	Peak
5	11659.00	28.97	18.23	17.30	39.74	46.30	74.00	-27.70	Peak
6	12305.00	29.06	18.07	17.62	39.46	46.09	74.00	-27.91	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH1 (802.11g Mode)	Polarization :	Horizontal

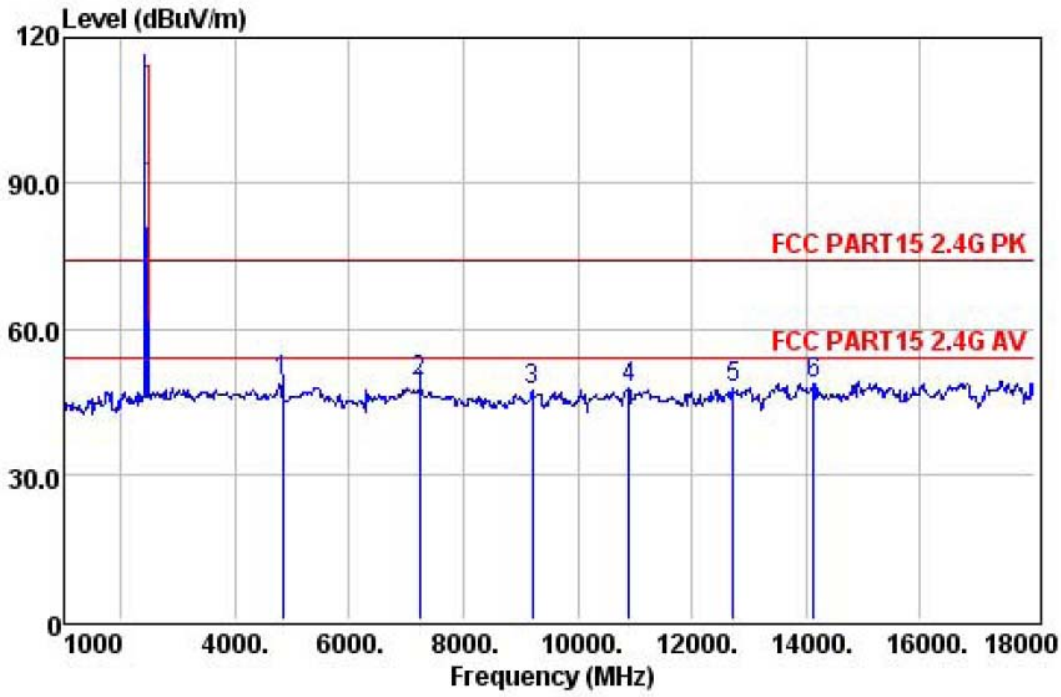
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4824.00	27.50	31.46	12.01	32.99	48.96	74.00	-25.04	Peak
2	7236.00	27.95	23.71	16.61	37.30	49.67	74.00	-24.33	Peak
3	10775.00	28.88	20.91	17.12	39.37	48.52	74.00	-25.48	Peak
4	12934.00	29.19	18.07	18.15	40.54	47.57	74.00	-26.43	Peak
5	13580.00	29.32	14.67	18.87	43.08	47.30	74.00	-26.70	Peak
6	15246.00	29.59	18.99	20.16	38.45	48.01	74.00	-25.99	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH1 (802.11g Mode)	Polarization :	Vertical

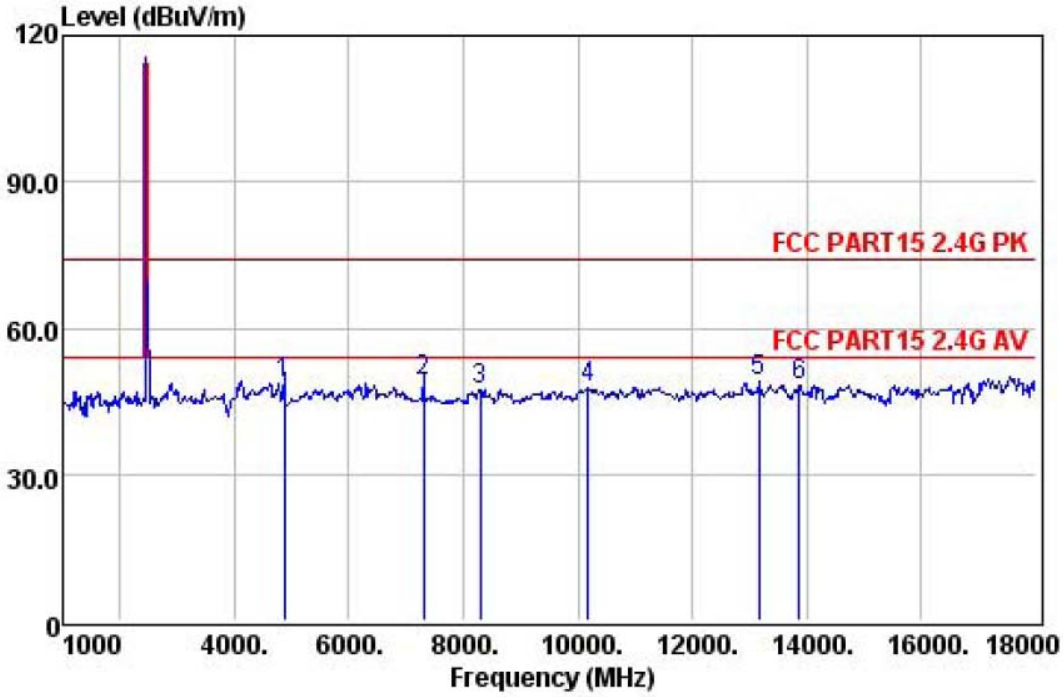
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4824.00	27.50	31.44	12.01	32.99	48.94	74.00	-25.06	Peak
2	7236.00	27.95	23.15	16.61	37.30	49.11	74.00	-24.89	Peak
3	9211.00	28.48	20.99	16.90	37.65	47.06	74.00	-26.94	Peak
4	10894.00	28.89	19.82	17.15	39.44	47.52	74.00	-26.48	Peak
5	12730.00	29.15	18.87	17.99	40.06	47.77	74.00	-26.23	Peak
6	14124.00	29.42	15.88	19.44	42.80	48.70	74.00	-25.30	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH6 (802.11g Mode)	Polarization :	Horizontal

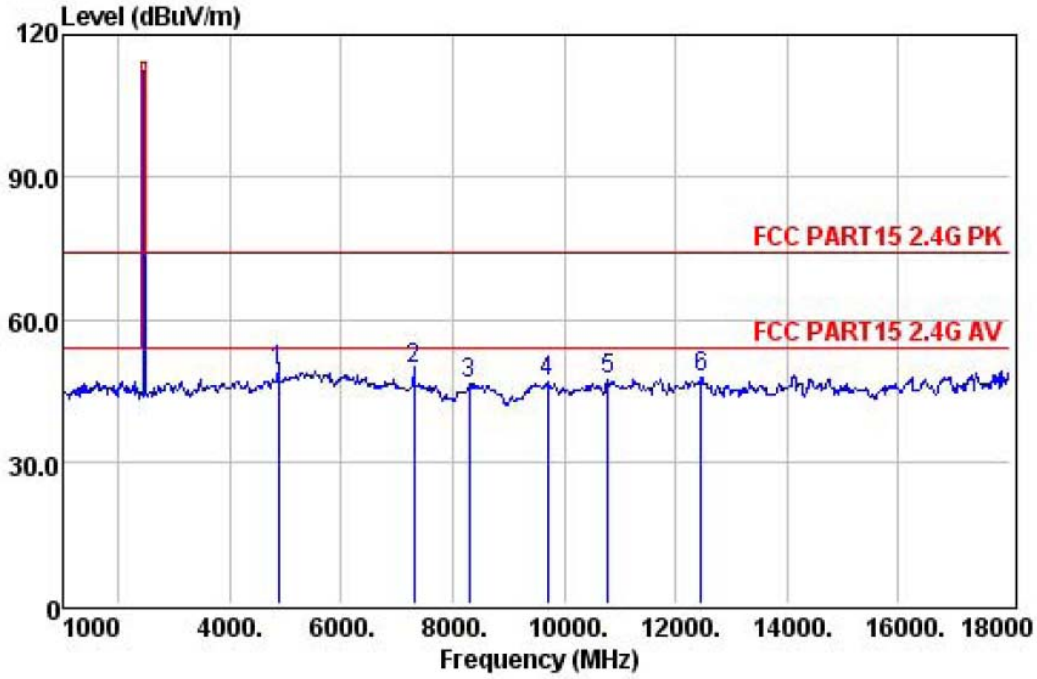
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4874.00	27.53	30.85	12.14	33.11	48.57	74.00	-25.43	Peak
2	7311.00	27.96	23.10	16.62	37.32	49.08	74.00	-24.92	Peak
3	8293.00	28.19	22.28	16.72	36.63	47.44	74.00	-26.56	Peak
4	10180.00	28.82	20.99	17.00	38.69	47.86	74.00	-26.14	Peak
5	13155.00	29.23	18.63	18.40	41.41	49.21	74.00	-24.79	Peak
6	13869.00	29.37	15.19	19.20	43.37	48.39	74.00	-25.61	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH6 (802.11g Mode)	Polarization :	Vertical

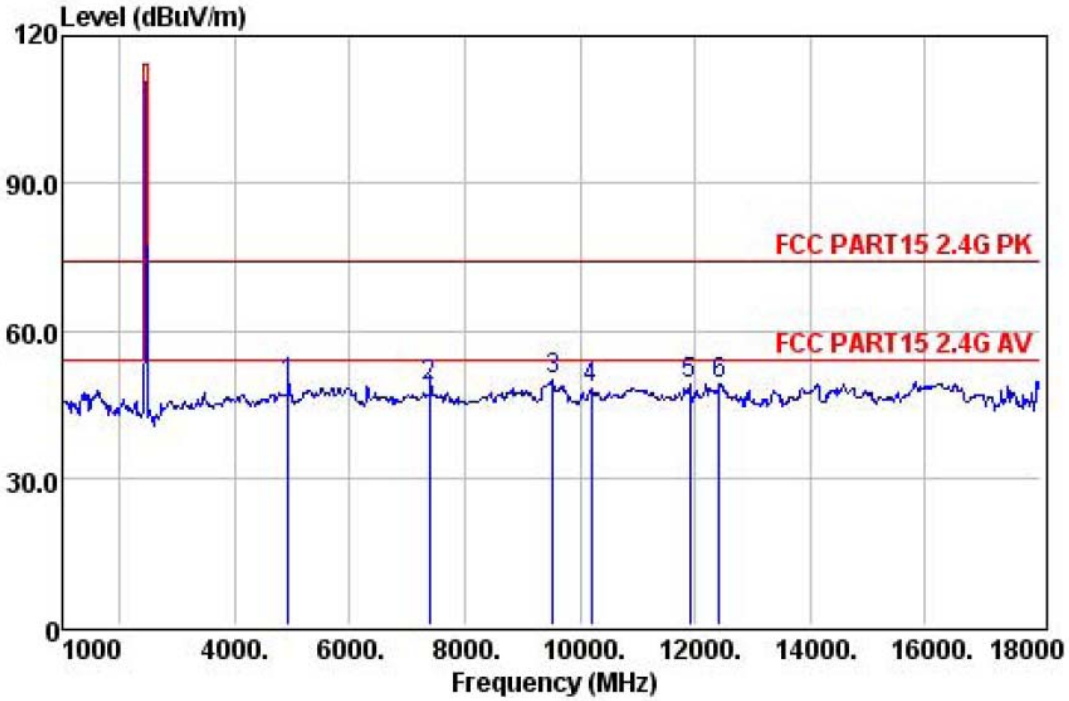
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4874.00	27.53	31.39	12.14	33.11	49.11	74.00	-24.89	Peak
2	7311.00	27.96	23.69	16.62	37.32	49.67	74.00	-24.33	Peak
3	8293.00	28.19	21.28	16.72	36.63	46.44	74.00	-27.56	Peak
4	9704.00	28.68	20.32	16.94	38.17	46.75	74.00	-27.25	Peak
5	10775.00	28.88	19.49	17.12	39.37	47.10	74.00	-26.90	Peak
6	12458.00	29.09	19.73	17.76	39.49	47.89	74.00	-26.11	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH11 (802.11g Mode)	Polarization :	Horizontal

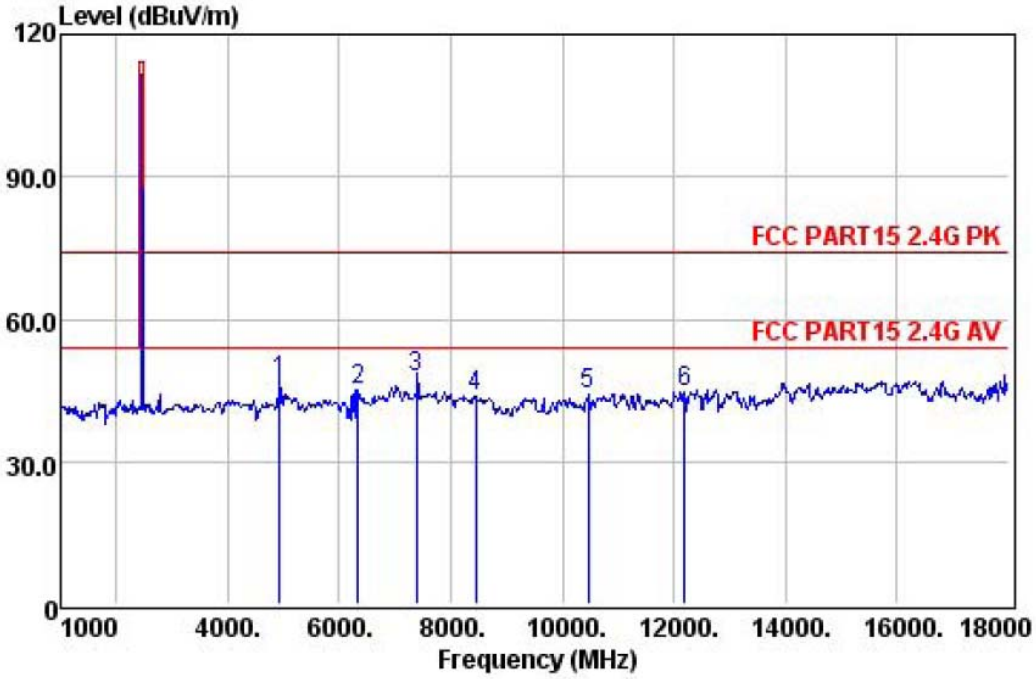
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4924.00	27.56	30.94	12.28	33.23	48.89	74.00	-25.11	Peak
2	7386.00	27.98	22.68	16.62	37.36	48.68	74.00	-25.32	Peak
3	9534.00	28.61	23.59	16.92	38.03	49.93	74.00	-24.07	Peak
4	10197.00	28.82	21.37	17.00	38.72	48.27	74.00	-25.73	Peak
5	11914.00	28.99	21.22	17.35	39.49	49.07	74.00	-24.93	Peak
6	12424.00	29.08	20.83	17.73	39.49	48.97	74.00	-25.03	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH11(802.11g Mode)	Polarization :	Vertical

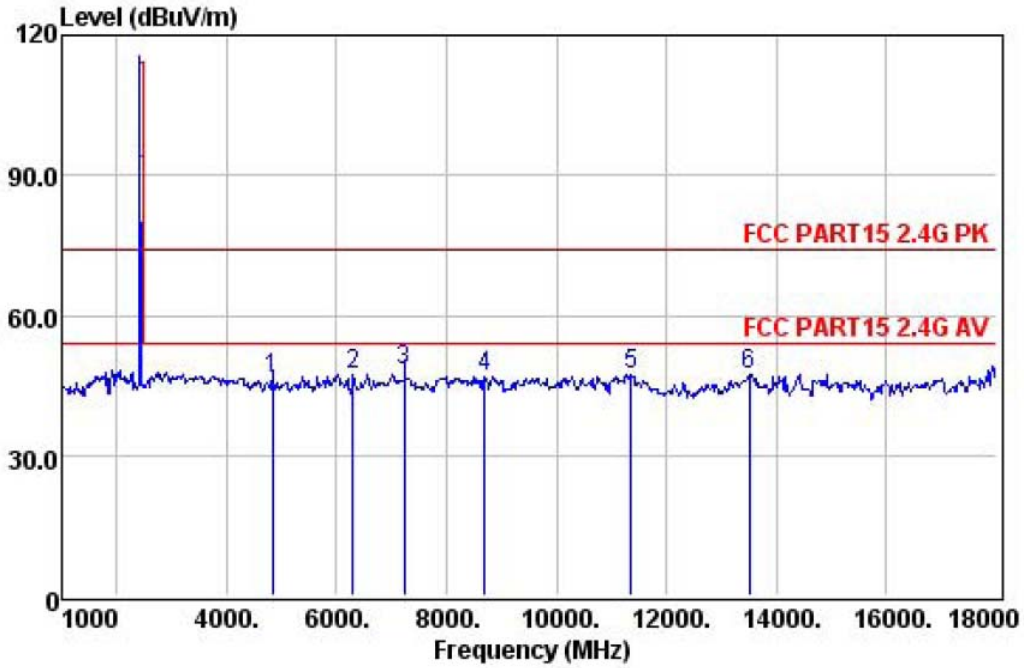
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4924.00	27.56	29.02	12.28	33.23	46.97	74.00	-27.03	Peak
2	6338.00	27.77	20.69	16.60	35.67	45.19	74.00	-28.81	Peak
3	7386.00	27.98	21.87	16.62	37.36	47.87	74.00	-26.13	Peak
4	8446.00	28.23	18.61	16.76	36.76	43.90	74.00	-30.10	Peak
5	10469.00	28.85	17.00	17.06	39.15	44.36	74.00	-29.64	Peak
6	12186.00	29.04	16.78	17.53	39.44	44.71	74.00	-29.29	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH1 (802.11n Mode)	Polarization :	Horizontal

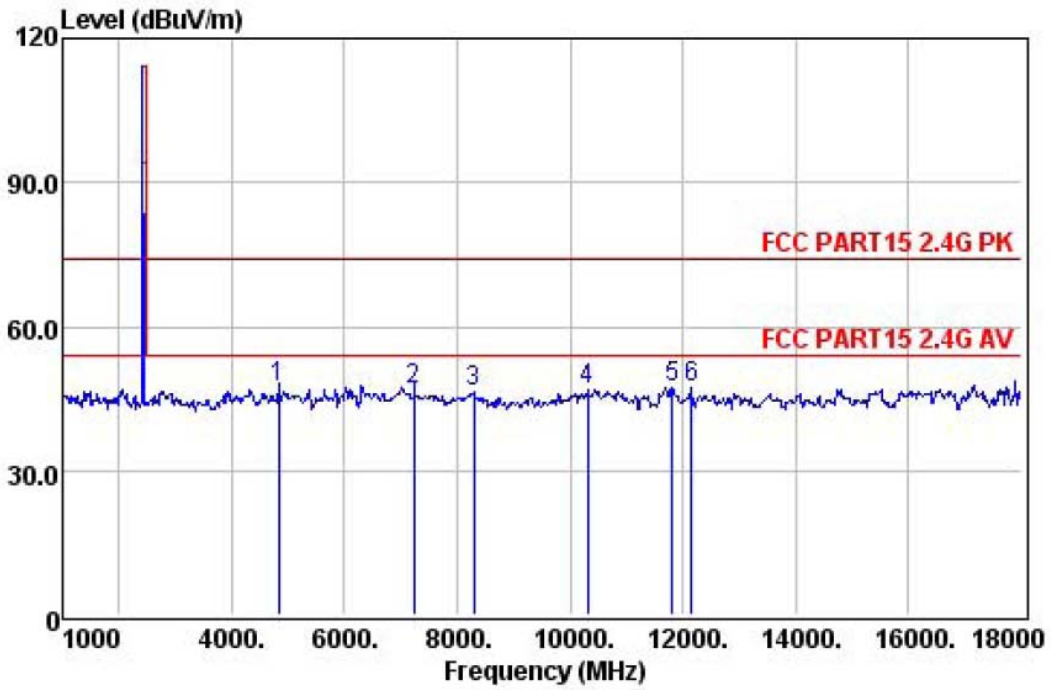
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4824.00	27.50	28.81	12.01	32.99	46.31	74.00	-27.69	Peak
2	6287.00	27.76	22.90	16.60	35.60	47.34	74.00	-26.66	Peak
3	7236.00	27.95	22.35	16.61	37.30	48.31	74.00	-25.69	Peak
4	8684.00	28.30	21.34	16.81	37.02	46.87	74.00	-27.13	Peak
5	11353.00	28.94	19.08	17.24	39.78	47.16	74.00	-26.84	Peak
6	13512.00	29.30	14.98	18.79	43.02	47.49	74.00	-26.51	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH1 (802.11n Mode)	Polarization :	Vertical

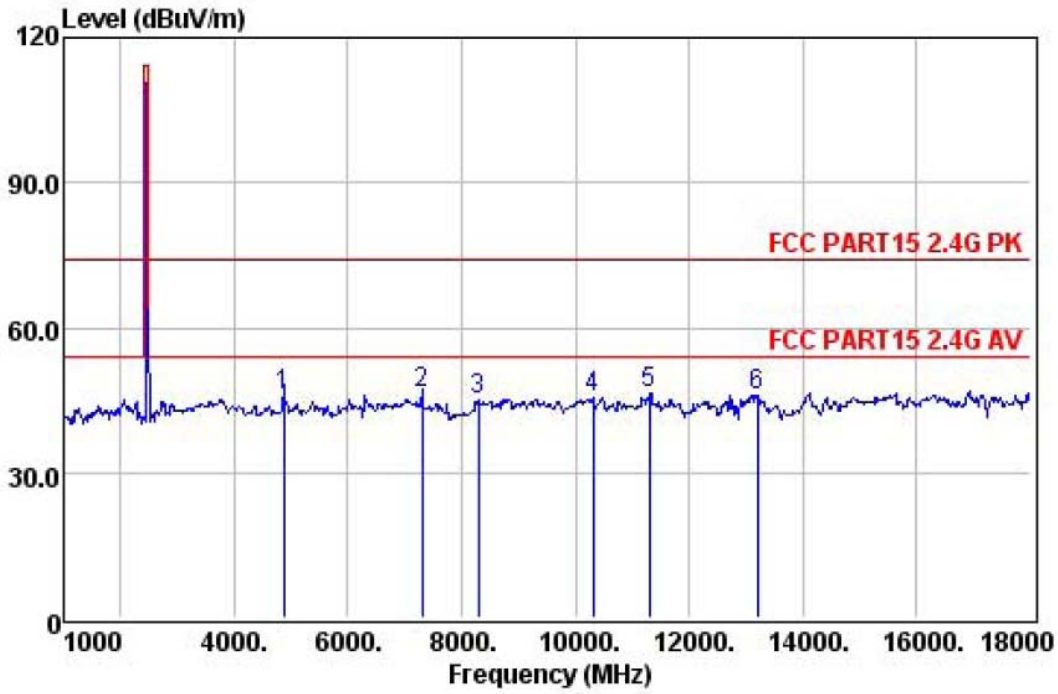
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4824.00	27.50	29.66	12.01	32.99	47.16	74.00	-26.84	Peak
2	7236.00	27.95	20.91	16.61	37.30	46.87	74.00	-27.13	Peak
3	8293.00	28.19	21.10	16.72	36.63	46.26	74.00	-27.74	Peak
4	10316.00	28.83	19.57	17.03	38.91	46.68	74.00	-27.32	Peak
5	11812.00	28.98	19.28	17.33	39.59	47.22	74.00	-26.78	Peak
6	12152.00	29.03	19.17	17.50	39.43	47.07	74.00	-26.93	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH6 (802.11n Mode)	Polarization :	Horizontal

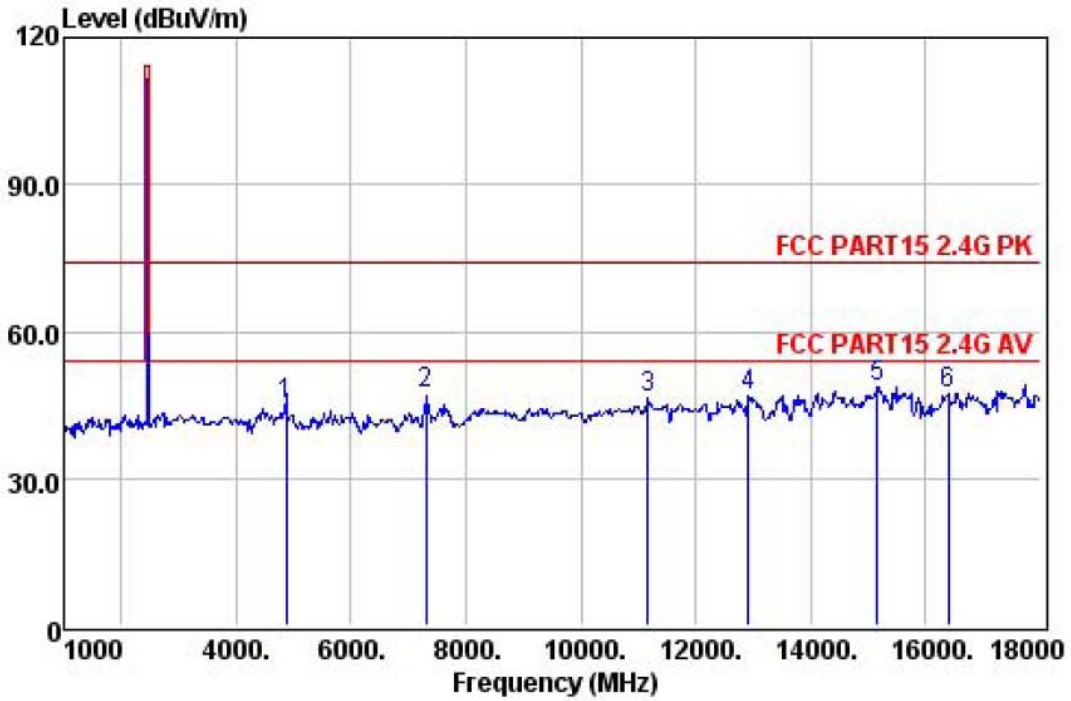
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4874.00	27.53	28.17	12.14	33.11	45.89	74.00	-28.11	Peak
2	7311.00	27.96	20.36	16.62	37.32	46.34	74.00	-27.66	Peak
3	8293.00	28.19	20.10	16.72	36.63	45.26	74.00	-28.74	Peak
4	10316.00	28.83	18.57	17.03	38.91	45.68	74.00	-28.32	Peak
5	11302.00	28.93	18.26	17.22	39.74	46.29	74.00	-27.71	Peak
6	13206.00	29.24	15.22	18.44	41.65	46.07	74.00	-27.93	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH6 (802.11n Mode)	Polarization :	Vertical

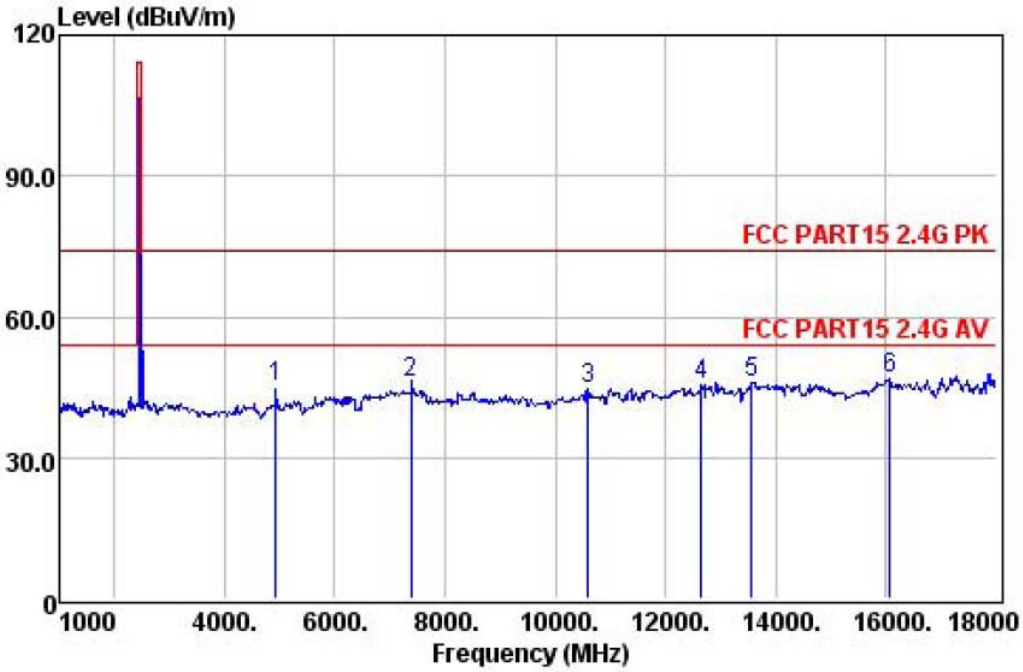
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4874.00	27.53	27.15	12.14	33.11	44.87	74.00	-29.13	Peak
2	7311.00	27.96	21.38	16.62	37.32	47.36	74.00	-26.64	Peak
3	11166.00	28.92	18.45	17.20	39.63	46.36	74.00	-27.64	Peak
4	12917.00	29.18	17.52	18.14	40.50	46.98	74.00	-27.02	Peak
5	15161.00	29.57	19.75	20.10	38.47	48.75	74.00	-25.25	Peak
6	16402.00	29.86	13.67	20.91	42.78	47.50	74.00	-26.50	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH11 (802.11n Mode)	Polarization :	Horizontal

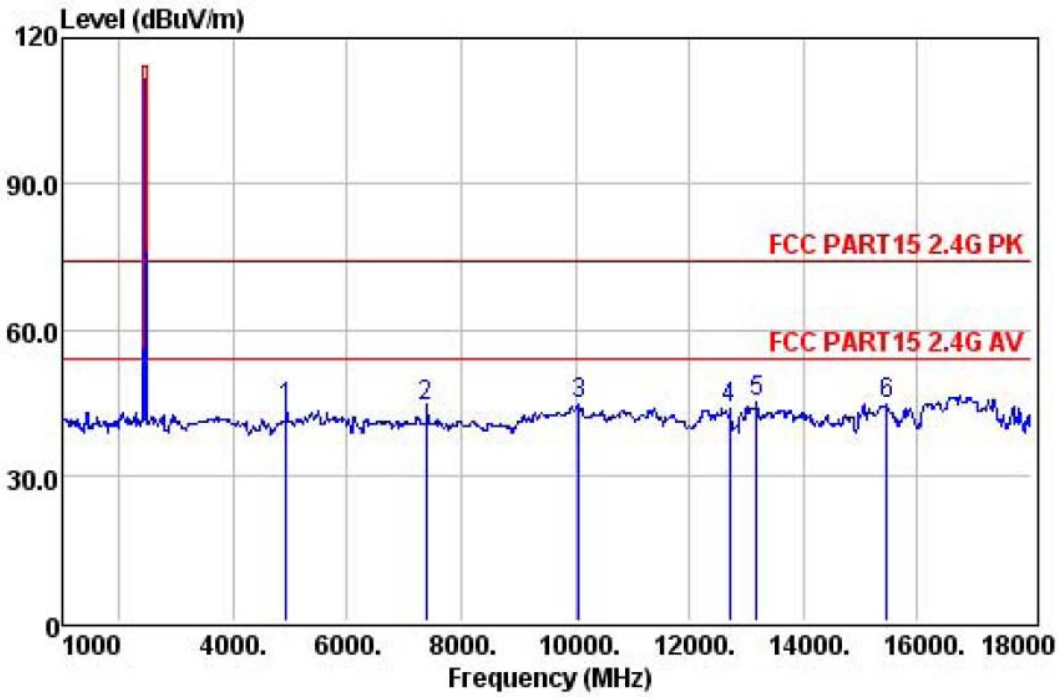
Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.



	Freq	Preamp Factor	Read Level	CableAntenna Loss	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4924.00	27.56	27.23	12.28	33.23	45.18	74.00	-28.82	Peak
2	7386.00	27.98	19.84	16.62	37.36	45.84	74.00	-28.16	Peak
3	10588.00	28.86	17.31	17.08	39.25	44.78	74.00	-29.22	Peak
4	12645.00	29.13	16.65	17.91	39.86	45.29	74.00	-28.71	Peak
5	13563.00	29.31	13.56	18.85	43.07	46.17	74.00	-27.83	Peak
6	16079.00	29.73	15.03	20.69	40.82	46.81	74.00	-27.19	Peak

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH11 (802.11n Mode)	Polarization :	Vertical

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



	Freq	Preamp Factor	Read Level	Cable Loss	Antenna Factor	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	4924.00	27.56	25.87	12.28	33.23	43.82	74.00	-30.18	Peak
2	7386.00	27.98	18.37	16.62	37.36	44.37	74.00	-29.63	Peak
3	10061.00	28.81	17.77	16.98	38.51	44.45	74.00	-29.55	Peak
4	12713.00	29.14	14.99	17.97	40.02	43.84	74.00	-30.16	Peak
5	13189.00	29.24	14.39	18.42	41.57	45.14	74.00	-28.86	Peak
6	15467.00	29.62	15.54	20.29	38.41	44.62	74.00	-29.38	Peak

Band Edge Emission:

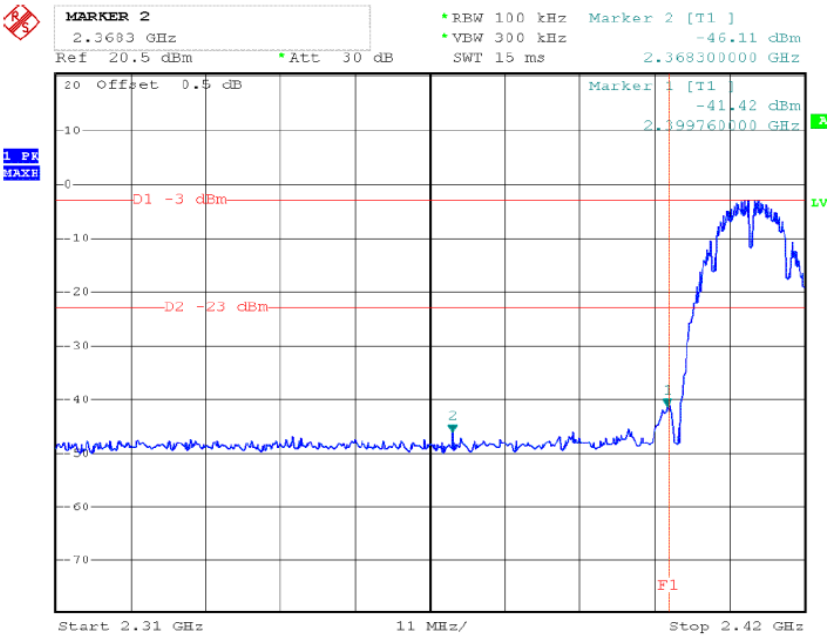
EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH1(802.11b&g&n Mode)	Polarization :	Horizontal& Vertical

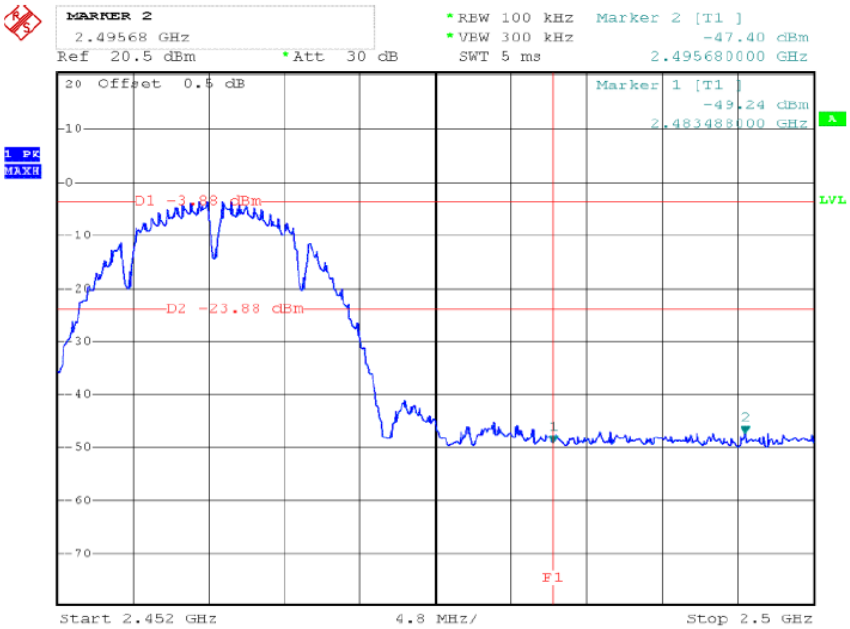
	Frequency (MHz)	Antenna polarization (H/V)	Emission (dBuV/m)		Band edge Limit (dBuV/m)	
			PK	AV	PK	AV
802.11b	<2400	H	52.06	43.07	74.00	54.00
	<2400	V	51.43	43.28	74.00	54.00
	>2483.5	H	52.38	42.11	74.00	54.00
	>2483.5	V	51.27	41.34	74.00	54.00
802.11g	<2400	H	53.02	42.67	74.00	54.00
	<2400	V	51.46	42.79	74.00	54.00
	>2483.5	H	52.78	43.04	74.00	54.00
	>2483.5	V	51.43	42.51	74.00	54.00
802.11n(HT20)	<2400	H	52.51	43.08	74.00	54.00
	<2400	V	51.67	42.19	74.00	54.00
	>2483.5	H	52.19	42.52	74.00	54.00
	>2483.5	V	52.27	41.67	74.00	54.00

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

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH11(802.11b Mode)	Polarization：	Horizontal &Vertical

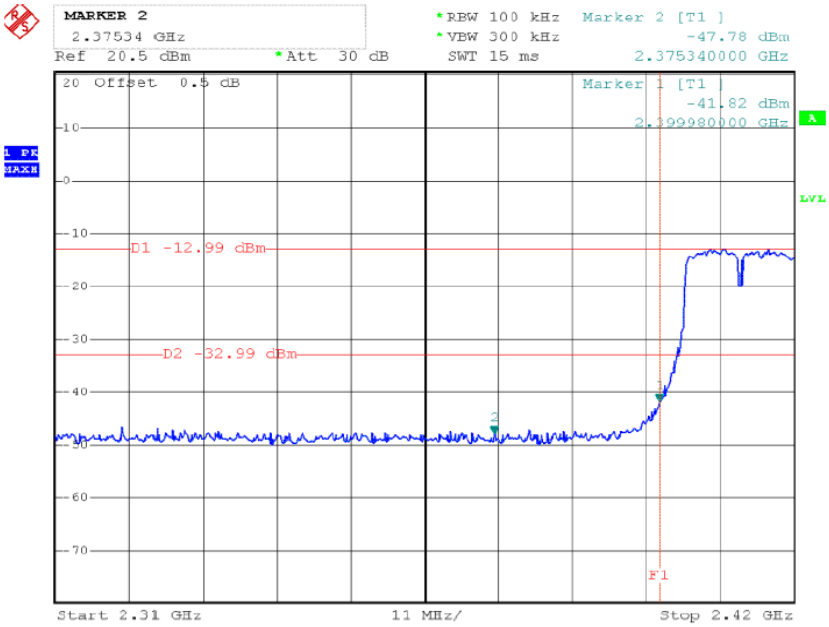
For conducted test plot as follows:

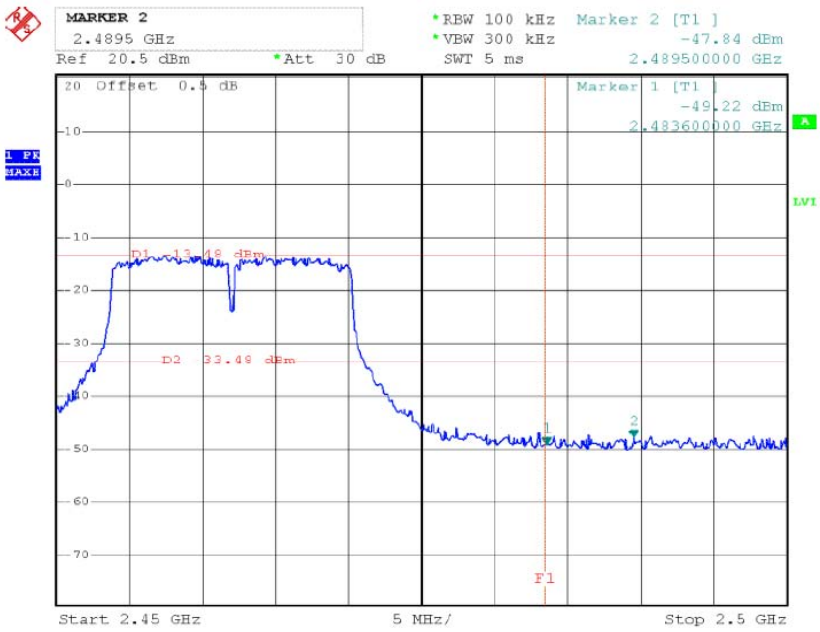




EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH1(802.11g Mode)	Polarization :	Horizontal& Vertical

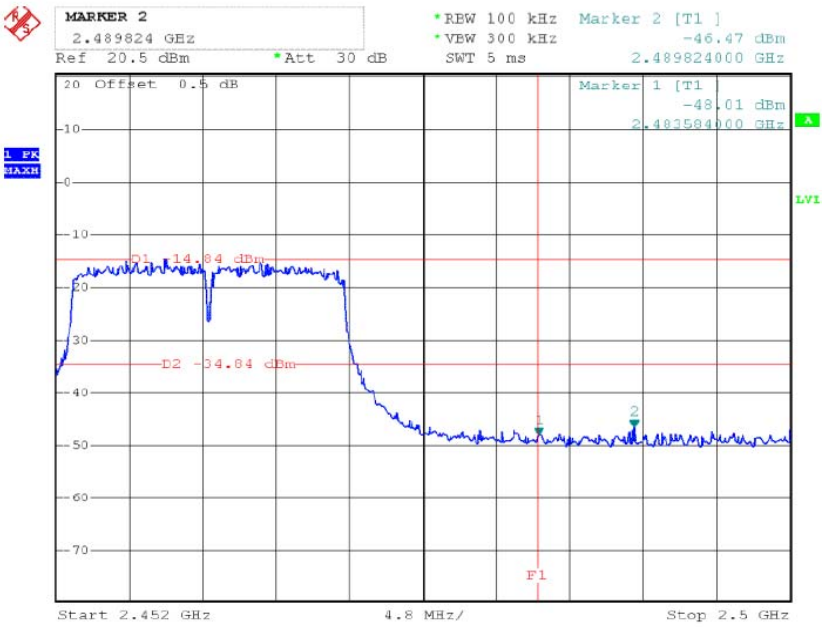
For conducted test plot as follows:

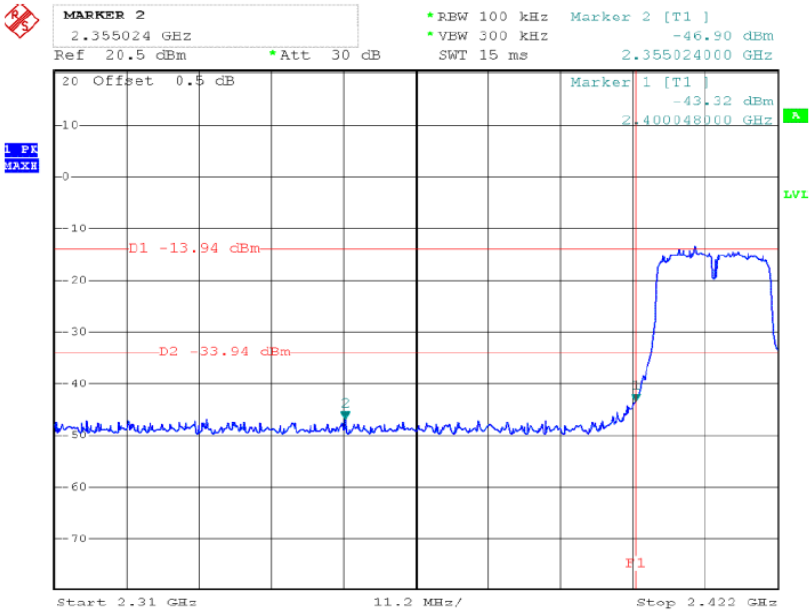




EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1010 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	CH1(802.11nMode)	Polarization :	Horizontal&Vertical

For conducted test plot as follows:





4. POWER SPECTRAL DENSITY TEST

4.1 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

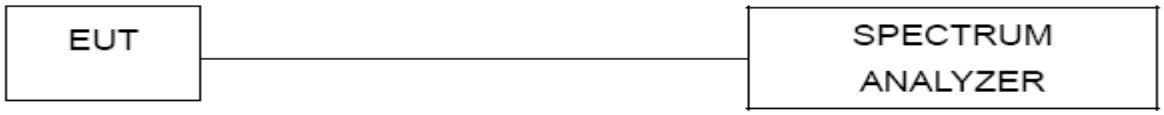
4.1.1 TEST PROCEDURE

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.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

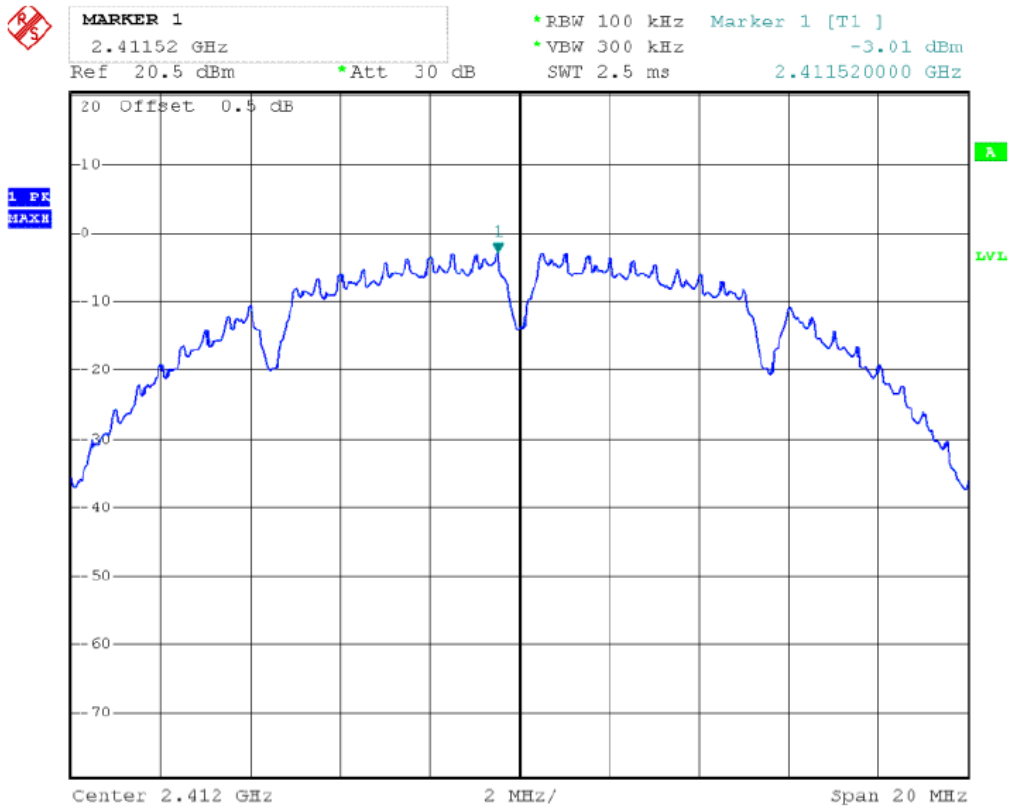
The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

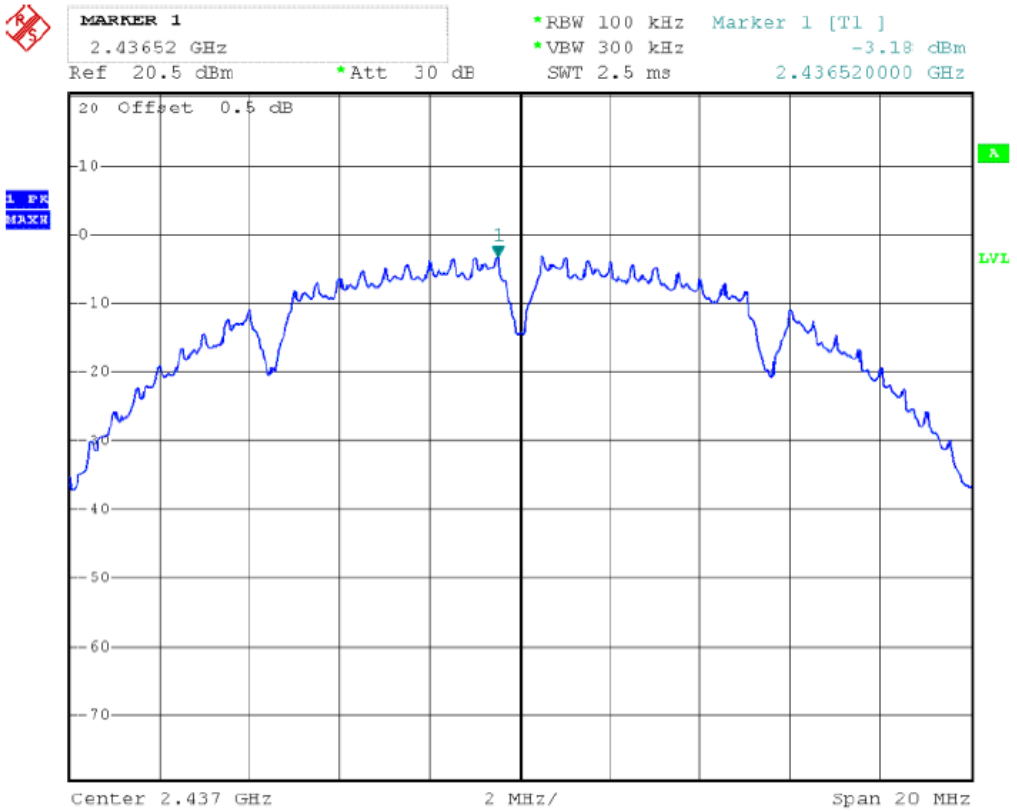
EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412	-3.01	<8	Pass
2437	-3.18	<8	Pass
2462	-3.43	<8	Pass

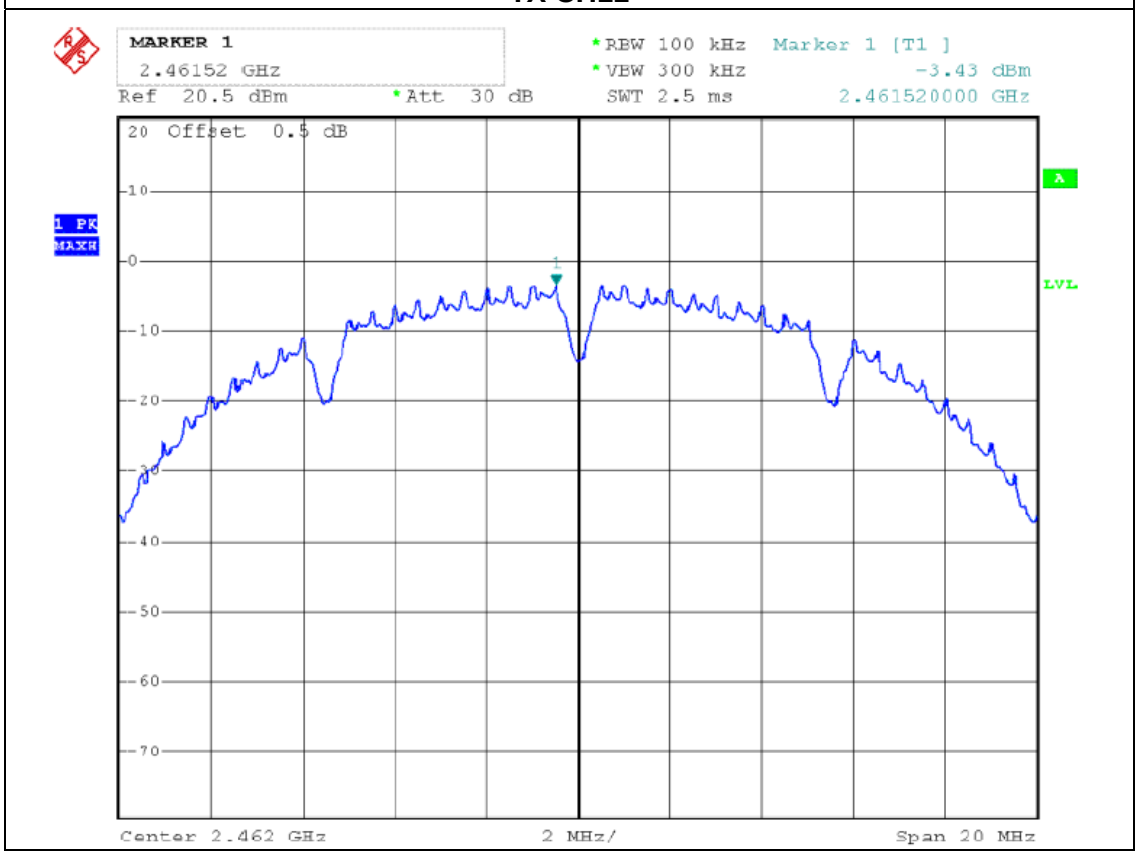
TX CH01



TX CH06


MARKER 1
2.43652 GHz
Ref 20.5 dBm
*Att 30 dB
*RBW 100 kHz
*VBW 300 kHz
SWT 2.5 ms
Marker 1 [T1]
-3.18 dBm
2.436520000 GHz
20 Offset 0.5 dB
10
0
-10
-20
-30
-40
-50
-60
-70
1 PK MAXH
A
LVL
Center 2.437 GHz
2 MHz/
Span 20 MHz

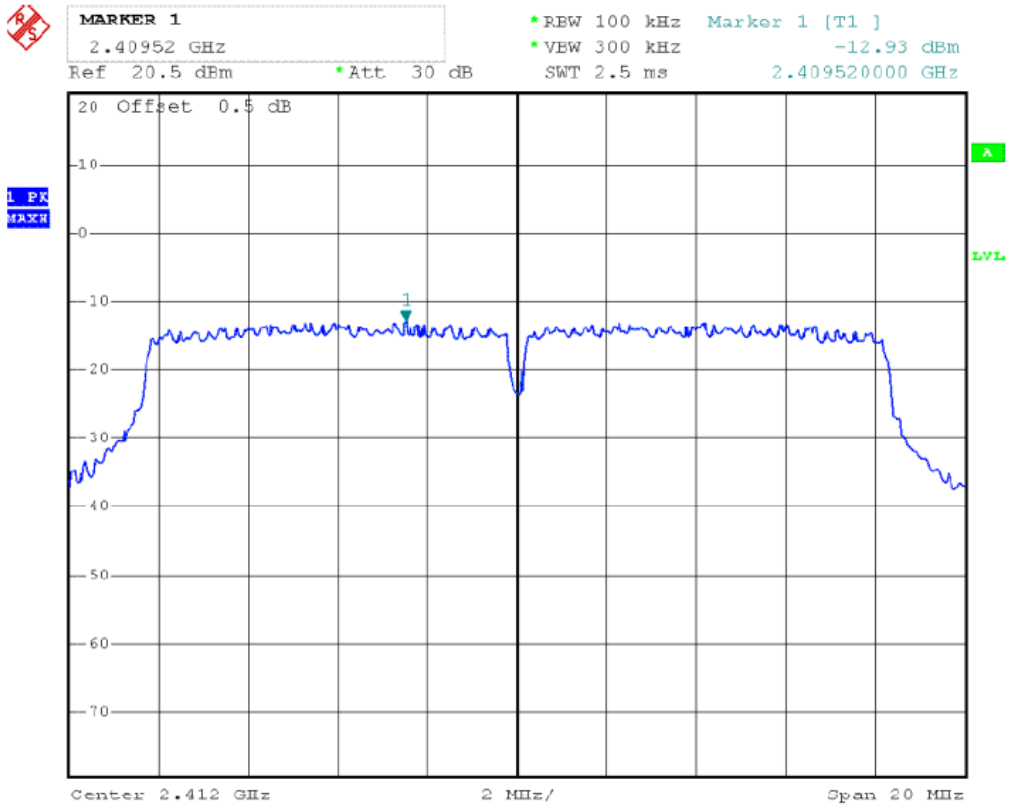
TX CH11


MARKER 1
2.46152 GHz
Ref 20.5 dBm
*Att 30 dB
*RBW 100 kHz
*VBW 300 kHz
SWT 2.5 ms
Marker 1 [T1]
-3.43 dBm
2.461520000 GHz
20 Offset 0.5 dB
1 PK
MAXH
A
LVL
Center 2.462 GHz
2 MHz/
Span 20 MHz

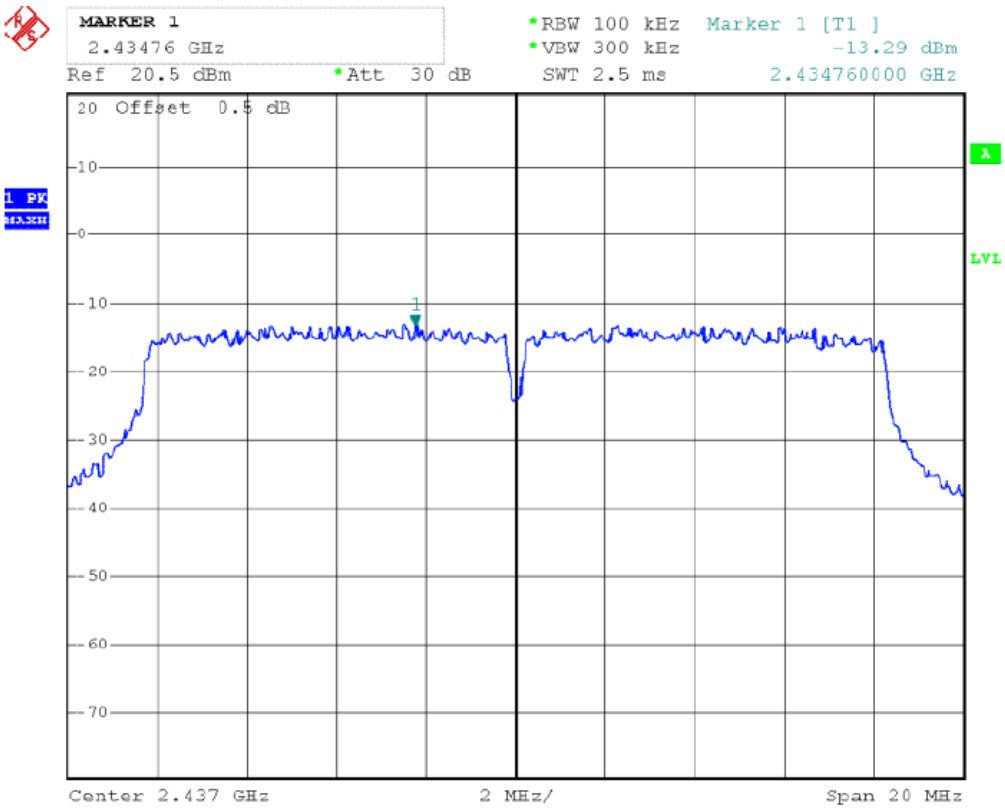
EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-12.92	<8	Pass
2437 MHz	-13.29	<8	Pass
2462 MHz	-13.59	<8	Pass

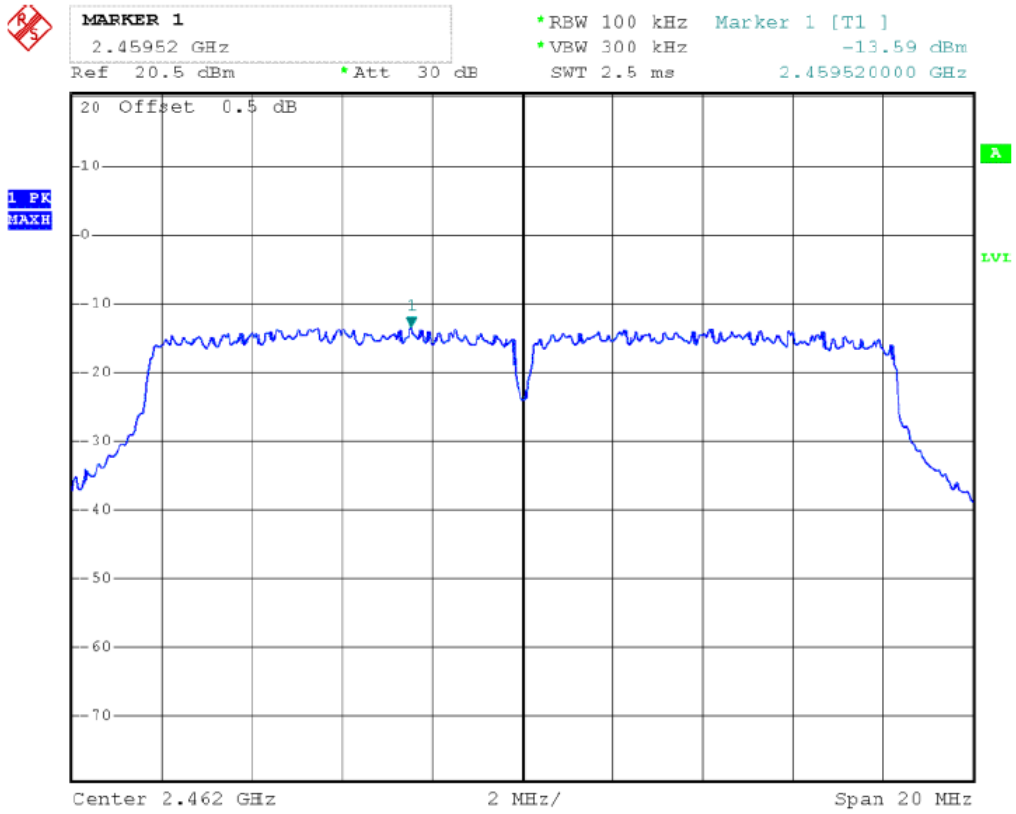
TX CH01



TX CH06


MARKER 1
2.43476 GHz
*RBW 100 kHz
*VBW 300 kHz
Marker 1 [T1]
-13.29 dBm
2.434760000 GHz
Ref 20.5 dBm
*Att 30 dB
SWT 2.5 ms
20 Offset 0.5 dB
1 PK
A
LVL
Center 2.437 GHz
2 MHz/
Span 20 MHz

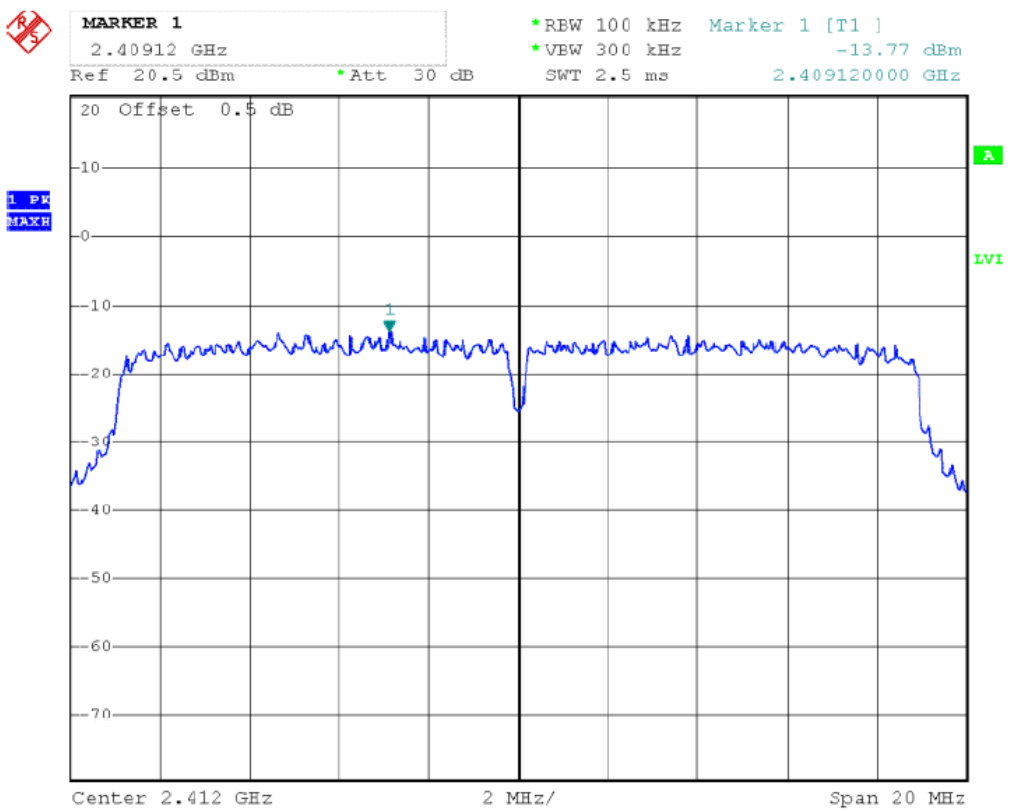
TX CH11


MARKER 1
2.45952 GHz
Ref 20.5 dBm
*Att 30 dB
*RBW 100 kHz
*VBW 300 kHz
SWT 2.5 ms
Marker 1 [T1]
-13.59 dBm
2.459520000 GHz
20 Offset 0.5 dB
1 PK
MAXH
A
LVL
Center 2.462 GHz
2 MHz/
Span 20 MHz

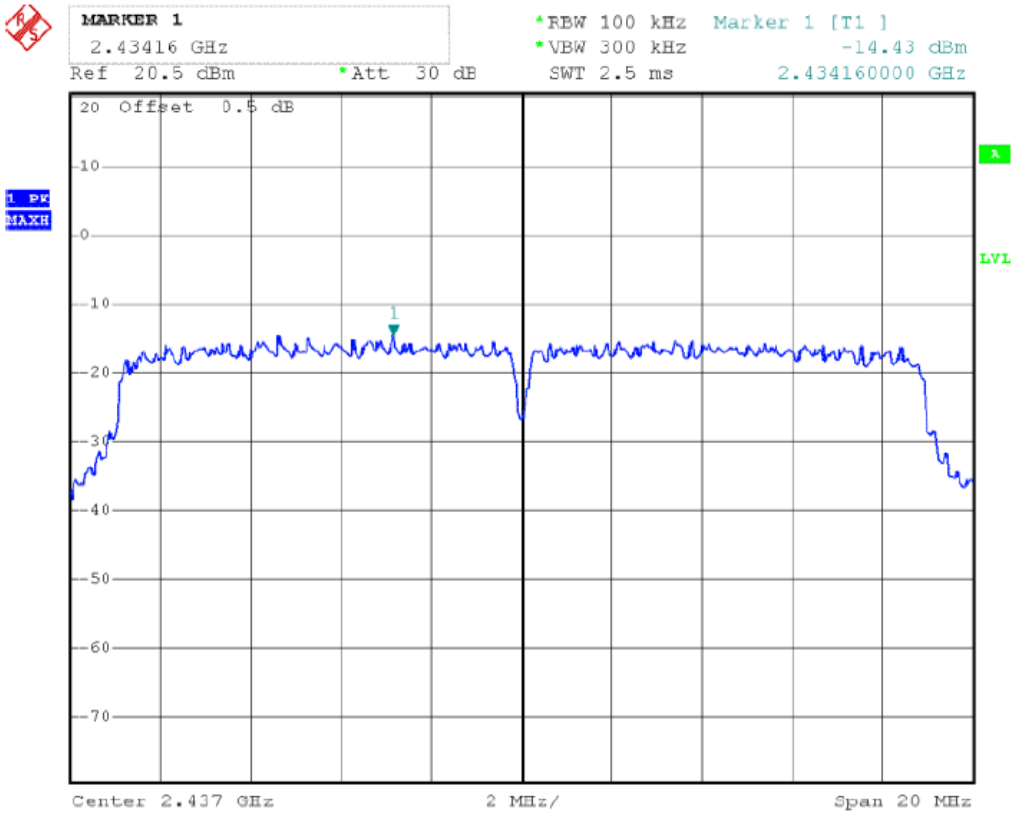
EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1015 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX n Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm)	Limit (dBm)	Result
2412 MHz	-13.77	<8	Pass
2437 MHz	-14.43	<8	Pass
2462 MHz	-14.46	<8	Pass

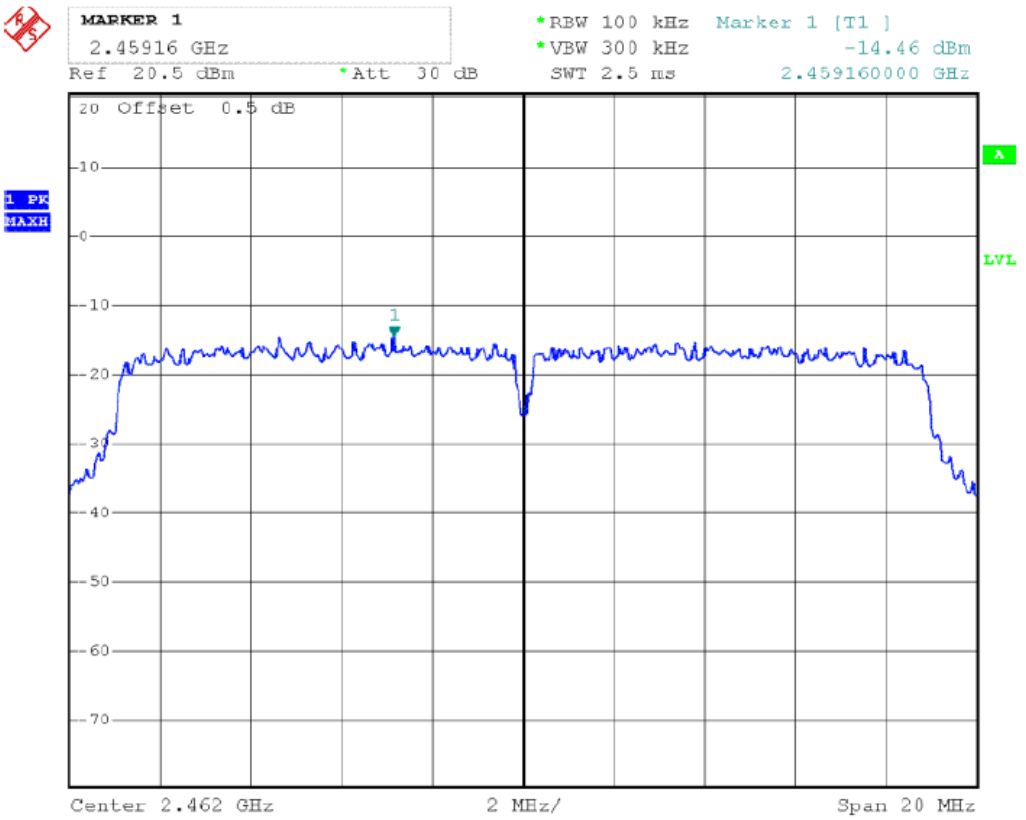
TX CH01



TX CH06


MARKER 1
2.43416 GHz
Ref 20.5 dBm
*Att 30 dB
*RBW 100 kHz
*VBW 300 kHz
SWT 2.5 ms
Marker 1 [T1]
-14.43 dBm
2.434160000 GHz
20 Offset 0.5 dB
10
0
-10
-20
-30
-40
-50
-60
-70
1 PK
MAXH
A
LVL
Center 2.437 GHz
2 MHz/
Span 20 MHz

TX CH11


MARKER 1
2.45916 GHz
Ref 20.5 dBm
*Att 30 dB
*RBW 100 kHz
*VBW 300 kHz
SWT 2.5 ms
Marker 1 [T1]
-14.46 dBm
2.459160000 GHz
20 Offset 0.5 dB
1 PK
MAXH
A
LVL
Center 2.462 GHz
2 MHz/
Span 20 MHz

5. BANDWIDTH TEST

5.1 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

5.1.1 TEST PROCEDURE

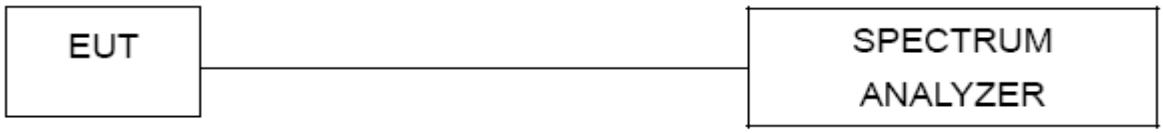
a.

1. Set RBW= 100 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x 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) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

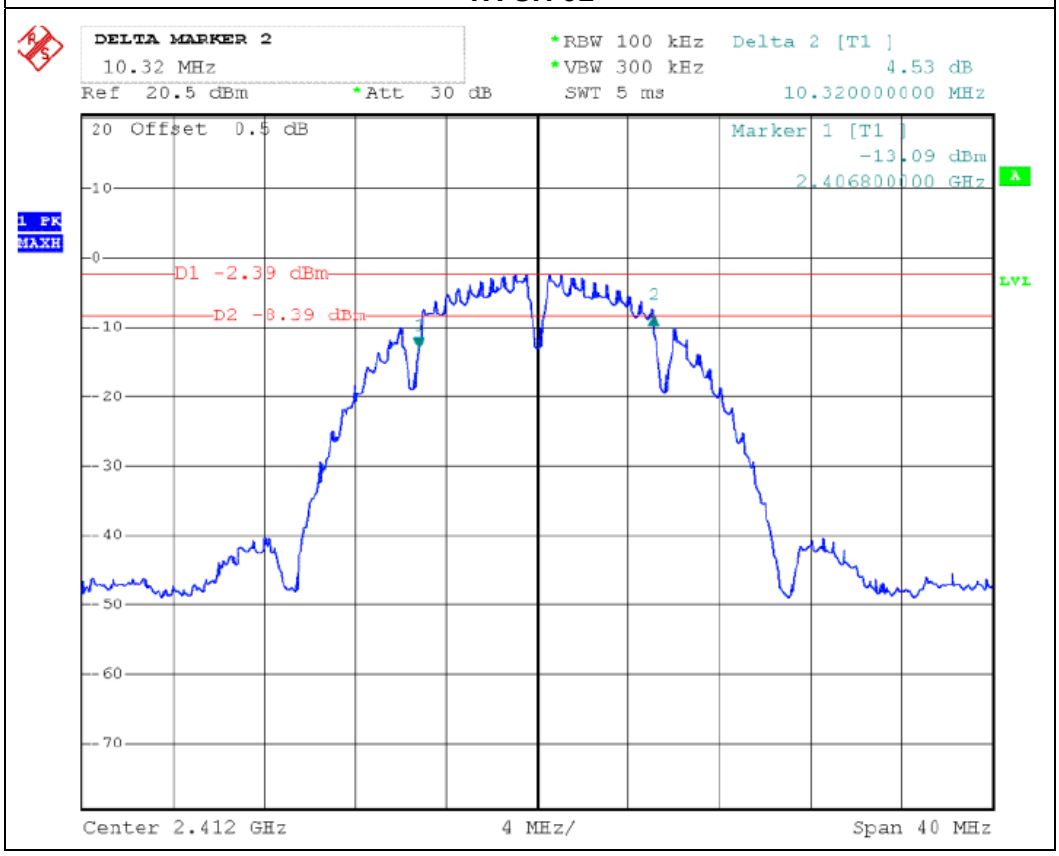
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

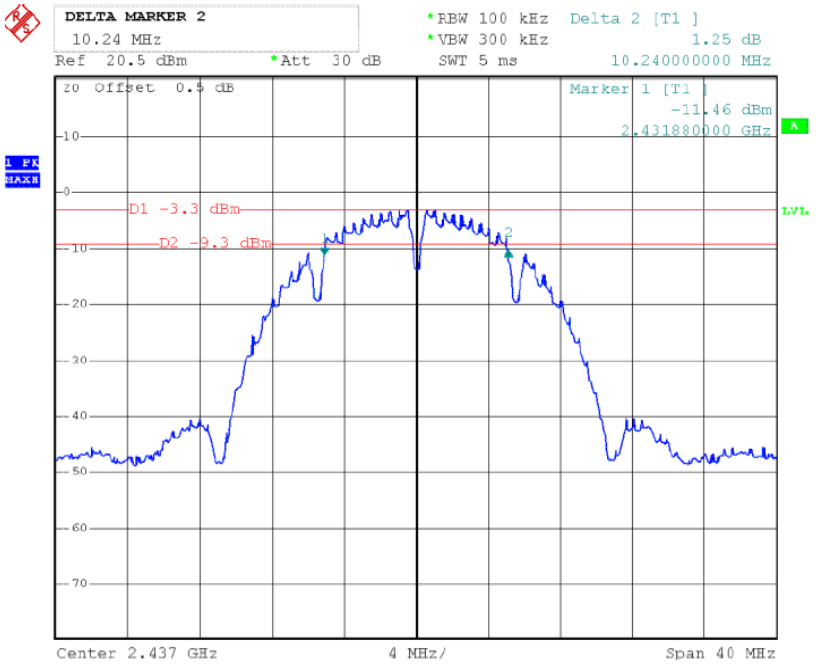
EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	10.32	>0.5	Pass
Middle	2437	10.24	>0.5	Pass
High	2462	10.32	>0.5	Pass

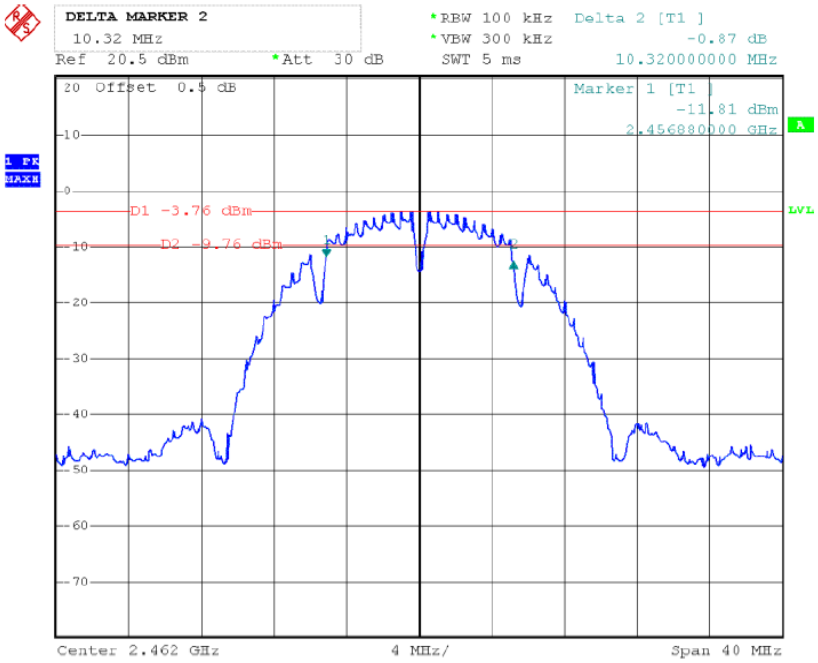
TX CH 01



TX CH 06



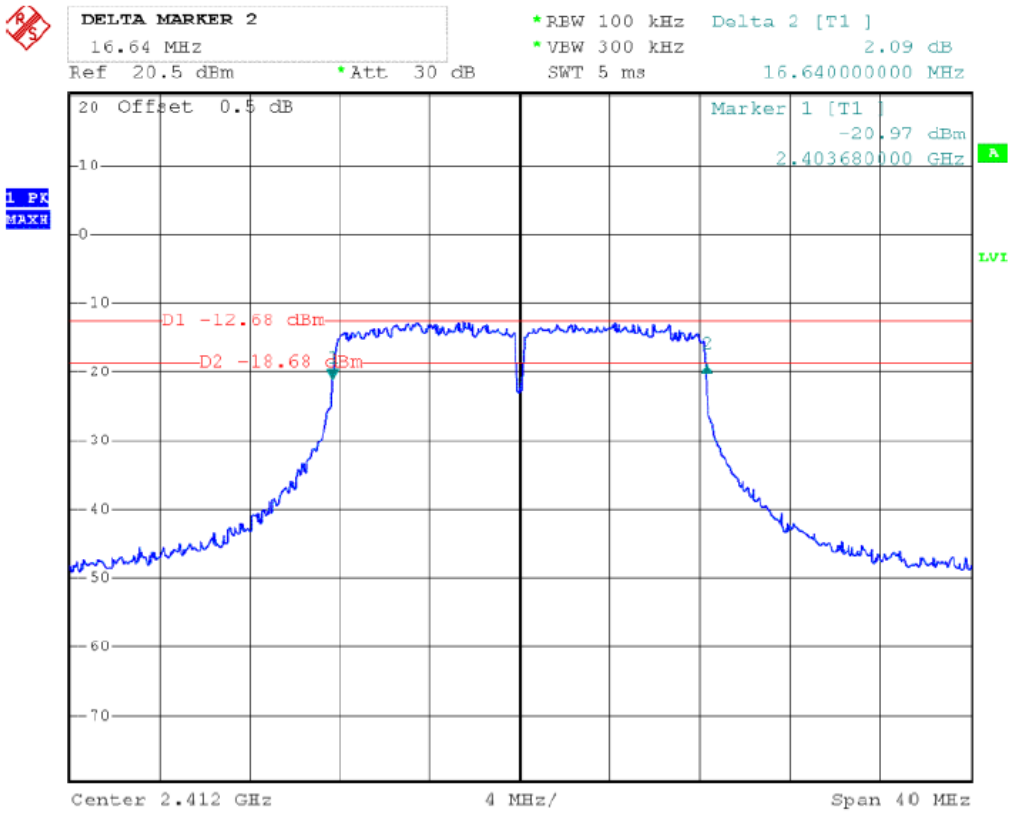
TX CH 11



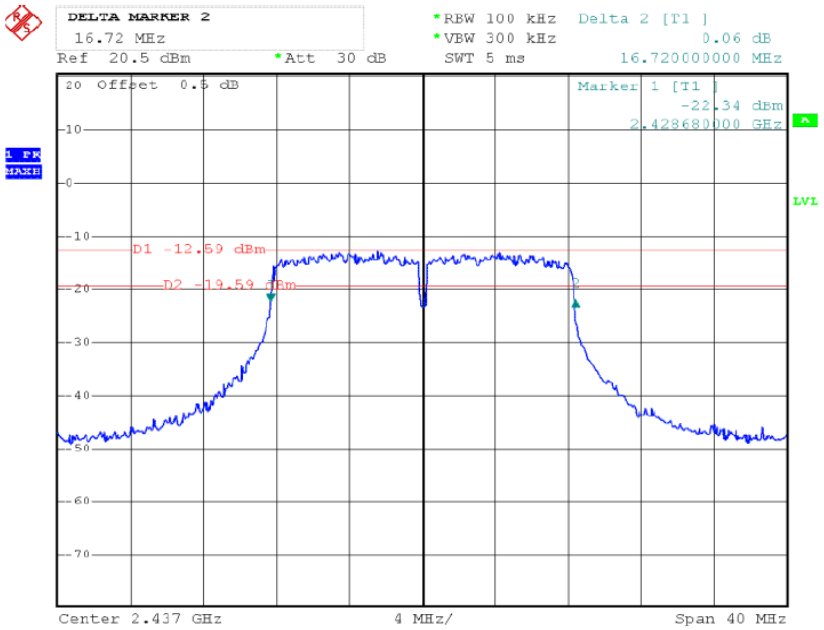
EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	16.64	>0.5	Pass
Middle	2437	16.72	>0.5	Pass
High	2462	16.64	>0.5	Pass

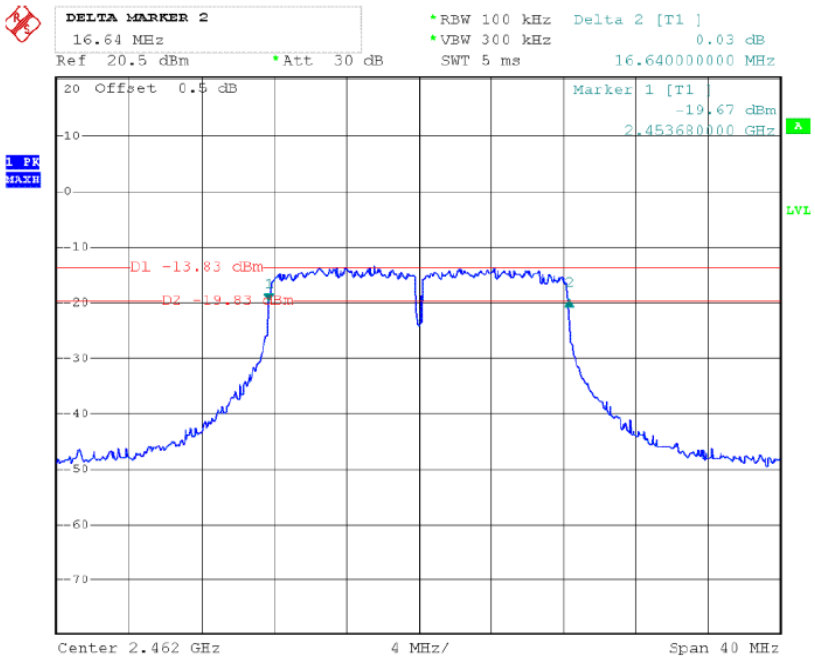
TX CH 01



TX CH 06



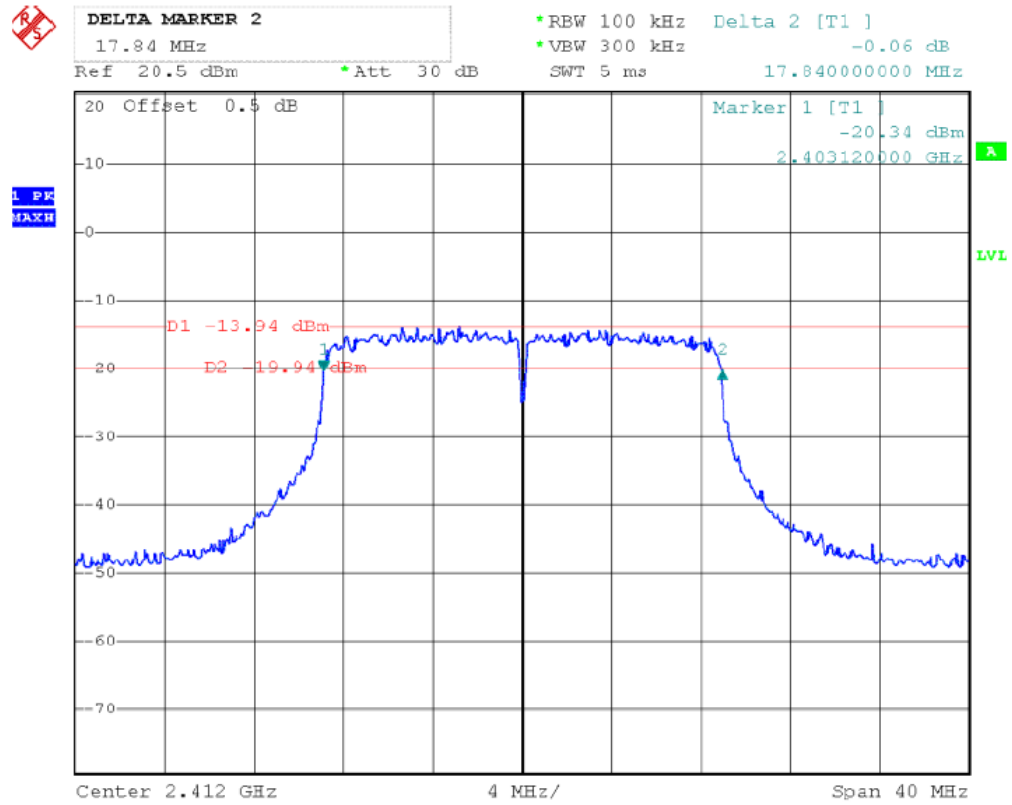
TX CH 11



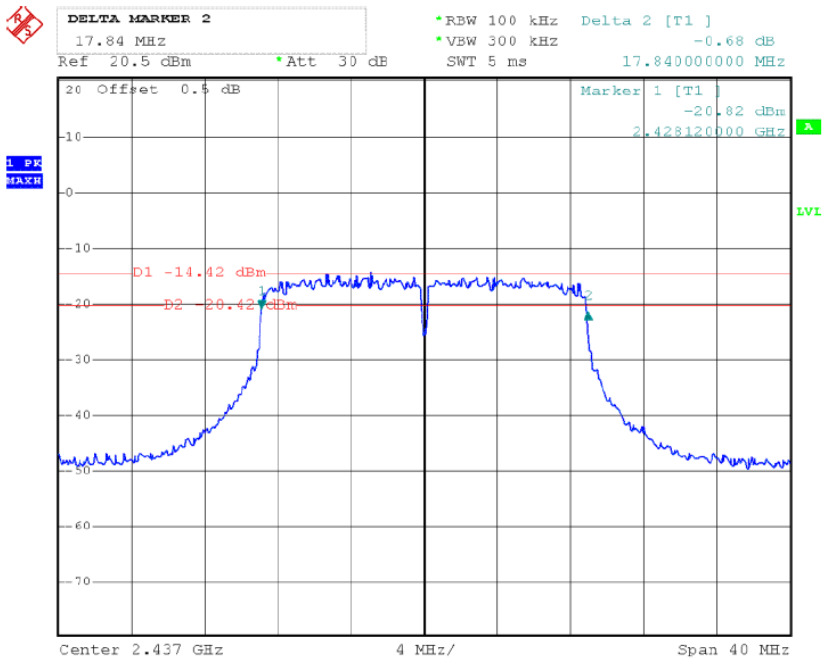
EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX n Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
Low	2412	17.84	>0.5	Pass
Middle	2437	17.84	>0.5	Pass
High	2462	17.84	>0.5	Pass

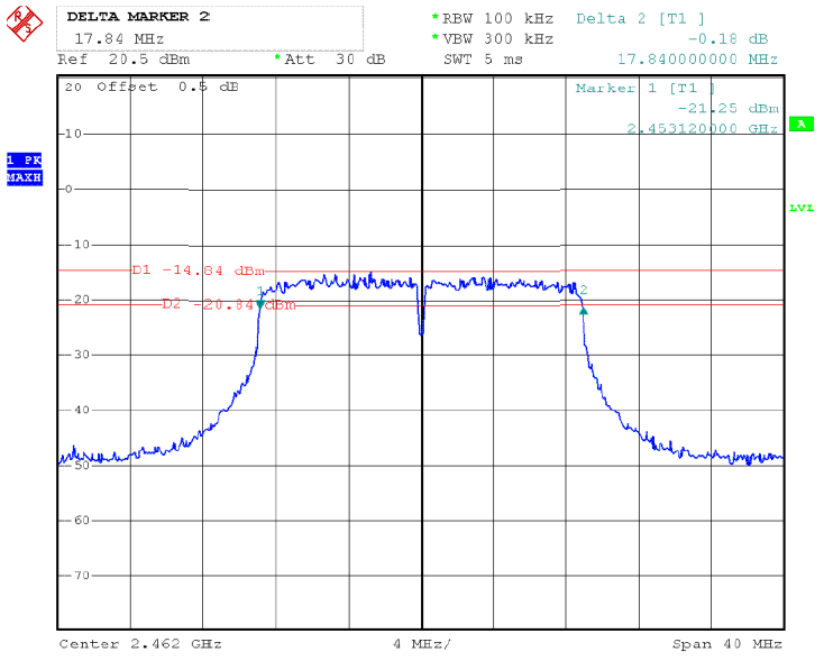
TX CH 01



TX CH 06



TX CH 11



6. PEAK OUTPUT POWER TEST

6.1 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

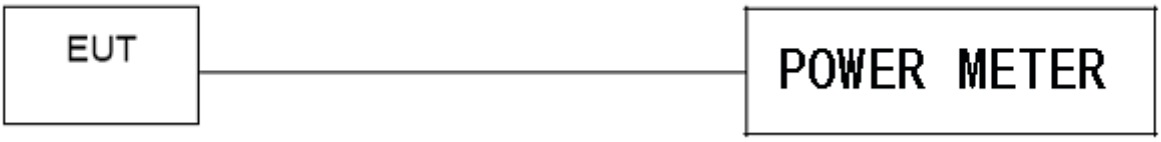
6.1.1 TEST PROCEDURE

a. The EUT was directly connected to the Power meter

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 TEST RESULTS

EUT：	7.9 inch tablet	Model Name ：	EGQ178
Temperature：	26 ℃	Relative Humidity：	54%
Pressure：	1012 hPa	Test Voltage ：	DC 3.7V
Test Mode ：	TX b/g/n Mode /CH01, CH06, CH11		

TX 802.11b Mode			
Test Channe	Frequency	Maximum Conducted Output Power(PK)	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	8.87	30
CH06	2437	8.81	30
CH11	2462	8.86	30
TX 802.11g Mode			
CH01	2412	6.48	30
CH06	2437	6.42	30
CH11	2462	6.51	30
TX 802.11n Mode			
CH01	2412	5.51	30
CH06	2437	5.49	30
CH11	2462	5.52	30

7. ANTENNA REQUIREMENT

7.1 STANDARD REQUIREMENT

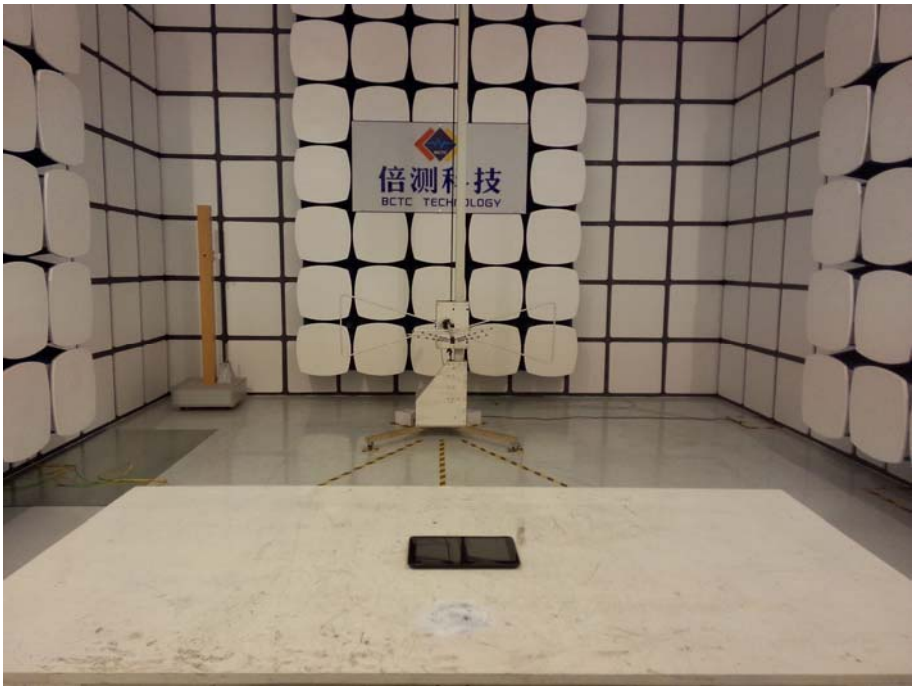
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

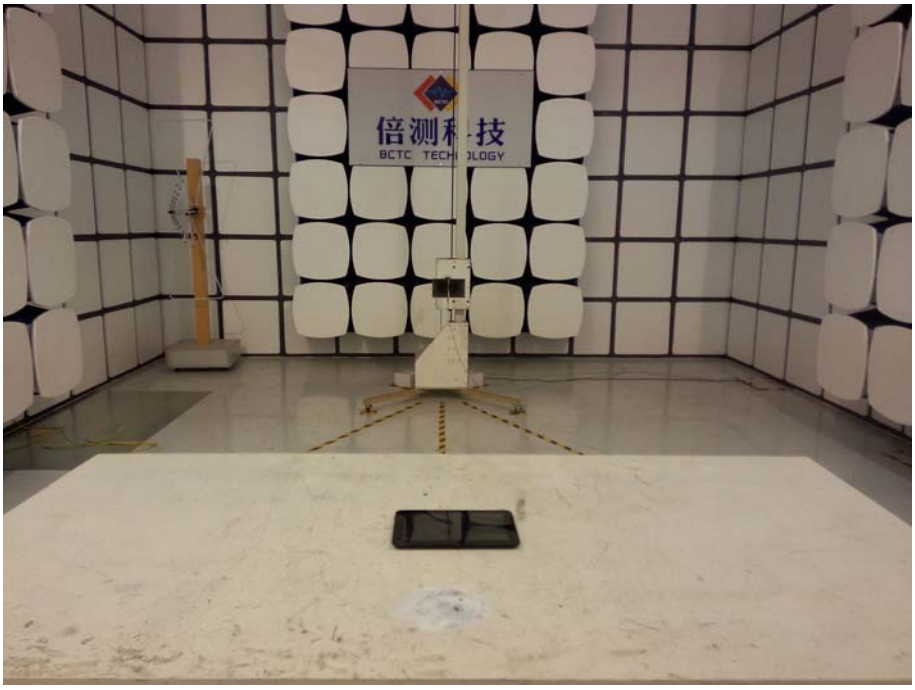
7.2 EUT ANTENNA

The antennas used for this product are Internal Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 1.0 dBi.

8. EUT TEST PHOTO

Radiated Measurement Photos





Radiated Measurement Photos