



FCC Test Report

Report No.: AGC00119130801FE08

FCC ID : BRCPC7067ME

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION : tablet pc

BRAND NAME : Titan/Kinwei

MODEL NAME : Please refer to page 4, Test Model and Series Model

CLIENT : Kintech Co., Ltd

DATE OF ISSUE : Sep.16, 2013

STANDARD(S) : FCC Part 15 Rules

REPORT VERSION : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep.16, 2013	Valid	Original Report

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1. VERIFICATION OF COMPLIANCE

Applicant	Kintech Co., Ltd
Address	Bldg.22, Chentian Industrial Zone, Baomin 2nd Road, Xixiang, Bao'an District, Shenzhen, China
Manufacturer	Kintech Co., Ltd
Address	Bldg.22, Chentian Industrial Zone, Baomin 2nd Road, Xixiang, Bao'an District, Shenzhen, China
Product Designation	tablet pc
Brand Name	Titan/Kinwei
Test Model	PC7067ME
Series Model	PC7067B, PC7068ME, PC7068B, PC7069ME, PC7069B, PC7070ME, PC7070B, PC70XXME(xx represents 00~99), PC70XXB(XX represents 00~99), KW-PC7067K, KW-PC7067, KW-PC7068K, KW-PC7068, KW-PC7069K, KW-PC7069, KW-PC7070K, KW-PC7070, KW-PC70XXK(XX represent 00~99), KW-PC70XX(XX represent 00~99)
Difference description	All the same except for the model name.
Date of test	Sep.11~Sep.14, 2013
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BLE/RF (2013-03-01)

WE HEREBY CERTIFY THAT:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Prepared By

Wall Huang

Wall Huang

Sep.16, 2013

Checked By

Forrest Lei

Forrest Lei

Sep.16, 2013

Authorized By

Solger Zhang

Solger Zhang

Sep.16, 2013

2.GENERAL INFORMATION

2.1PRODUCT DESCRIPTION

The EUT is designed as a “**tablet pc**”. It is designed by way of utilizing the FHSS technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	2.402 GHz to 2.480GHz
Bluetooth Version	V4.0
Modulation	GFSK
Number of channels	40 Channel(37 Hopping Channel,3 advertising Channel)
Antenna Designation	Integral antenna
Antenna Gain	2.0dBi
Hardware Version	HJT-T8170-11A(C2)-AA
Software Version	N/A
Power Supply	DC3.7V by Built-in Li-ion Battery

2.2 RELATED SUBMITTAL(S)/GRANT(S)

This submittal(s) (test report) is intended for **FCC ID: BRCPC7067ME** filing to comply with Section 15.247of the FCC Part 15, Subpart C Rules.

2.3TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions. The EUT was tested in all three orthogonal planes and the worse case was showed.

2.4 TEST FACILITY

All measurement facilities used to collect the measurement data are located at
Attestation of Global Compliance (Shenzhen) Co, Ltd

2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China.

FCC register No.: 259865

2.5 SPECIAL ACCESSORIES

Refer to section 2.2.

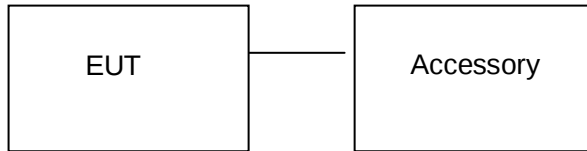
2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

3. SYSTEM TEST CONFIGURATION

3.1 CONFIGURATION OF TESTED SYSTEM

Configure:



3.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	tablet pc	Titan/Kinwei	PC7067ME	EUT
2	Adapter	N/A	KZ0502000/UL	Accessory
3	Battery	N/A	PL3644143P	Accessory

4. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§ 15.203	Antenna Requirement	Compliant
§15.209 §15.247(d)	Radiated Emission	Compliant
§15.247(d)	Band Edges	Compliant
§15.247	6 dB Bandwidth	Compliant
§15.247(b)	Conducted Power	Compliant
§15.247(e)	Maximum Conducted Output Power SPECTRAL Density	Compliant
§15.207	Line Conduction Emission	Compliant

5. DESCRIPTION OF TEST MODES

The EUT has been operated in three modulations: GFSK independently.

NO.	TEST MODE DESCRIPTION
1	Low channel TX
2	Middle channel TX
3	High channel TX
4	Normal Operating (BT)

Note:

1. All the test modes can be supply by Built-in Li-ion battery, only the result of the worst case was recorded in the report if no any records.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

6. ANTENNA REQUIREMENT

6.1. STANDARD APPLICABLE

According to FCC 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

6.2. TEST RESULT

This product has a permanent antenna, fulfill the requirement of this section.

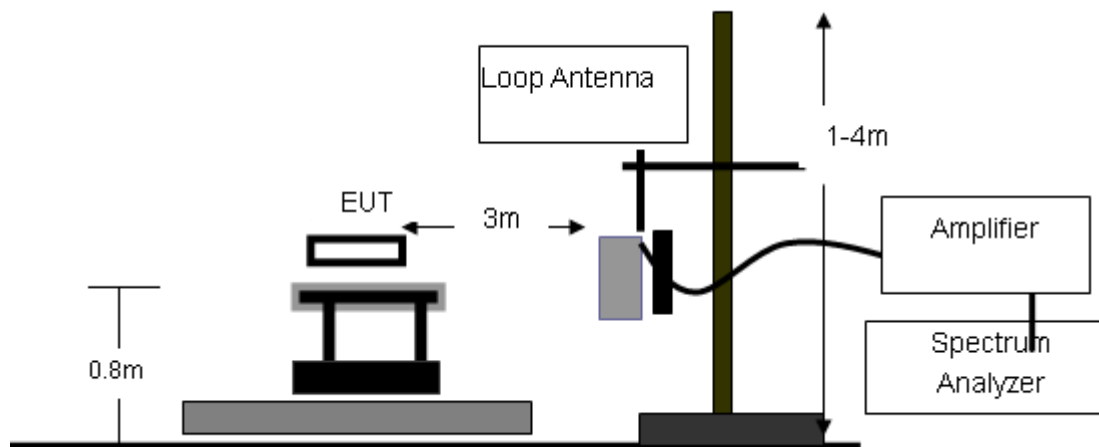
7. RADIATED EMISSION

7.1 MEASUREMENT PROCEDURE

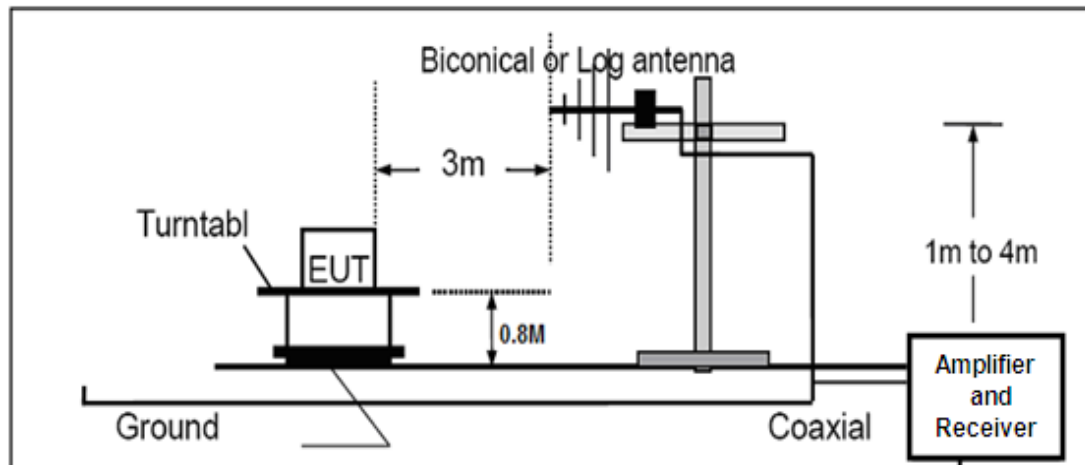
1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

7.2 TEST SETUP

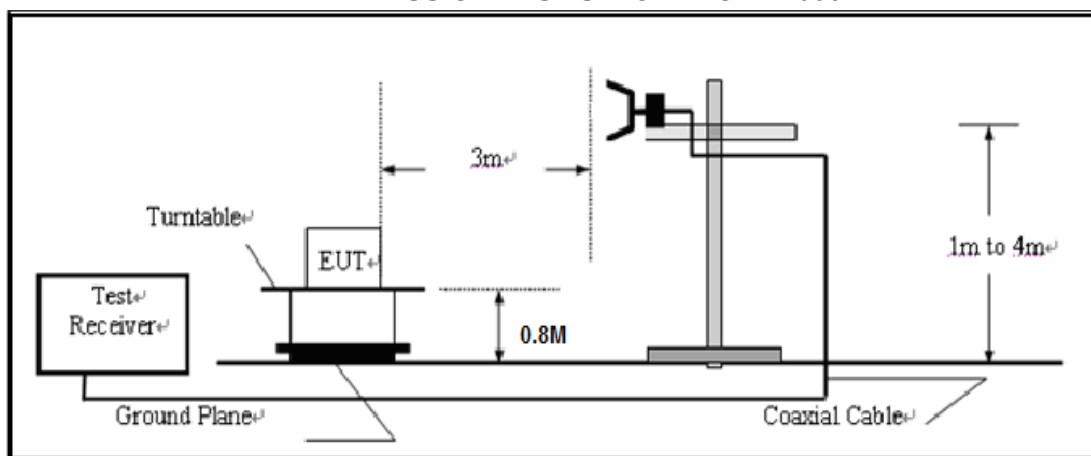
RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



7.3 LIMITS AND MEASUREMENT RESULT

15.209 Limit in the below table has to be followed

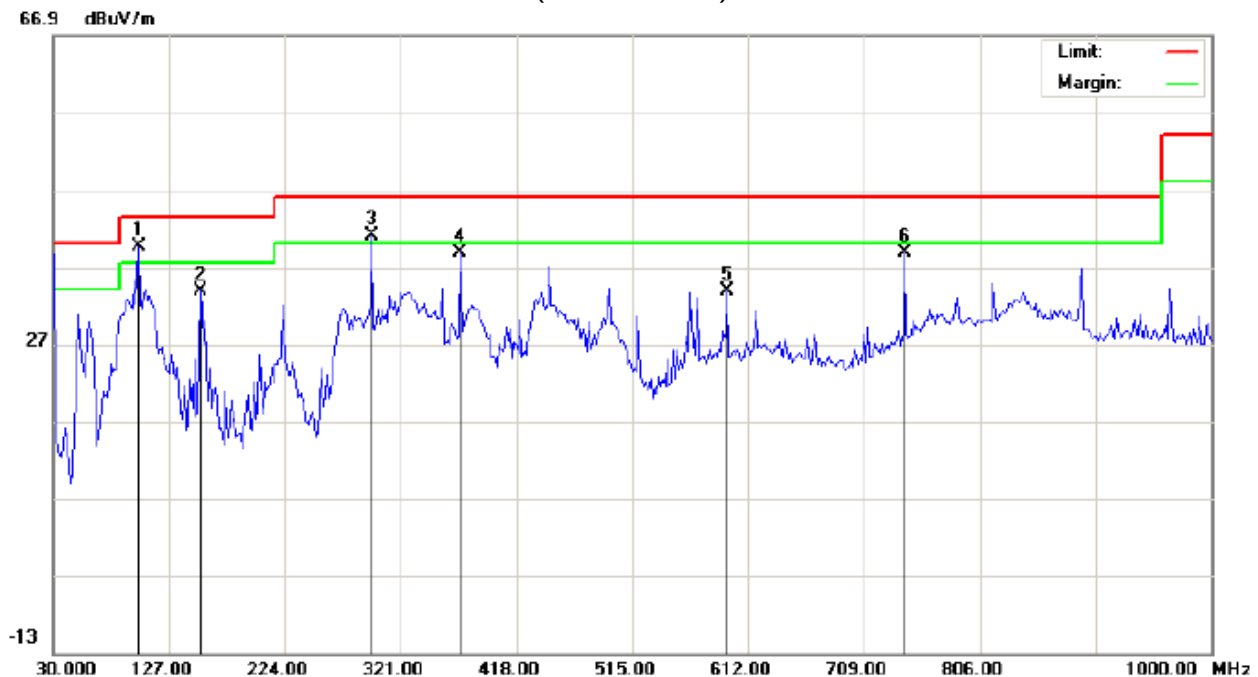
Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

7.4 TEST RESULT

RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

RADIATED EMISSION BELOW 1G**RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL**

Site: site #1

Limit: FCC Class B 3M Radiation

EUT: tablet pc

M/N: PC7067ME

Mode: Low Channel TX

Note:

Polarization: *Horizontal*

Power:

Distance: 3m

Temperature: 26

Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	101.1333	31.50	8.16	39.66	43.50	-3.84	peak			
2		152.8667	26.93	6.97	33.90	43.50	-9.60	peak			
3	!	296.7500	23.40	17.63	41.03	46.00	-4.97	peak			
4		371.1166	18.90	19.98	38.88	46.00	-7.12	peak			
5		594.2166	8.93	24.82	33.75	46.00	-12.25	peak			
6		742.9500	11.48	27.32	38.80	46.00	-7.20	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: tablet pc
M/N: PC7067ME
Mode: Low Channel TX
Note:

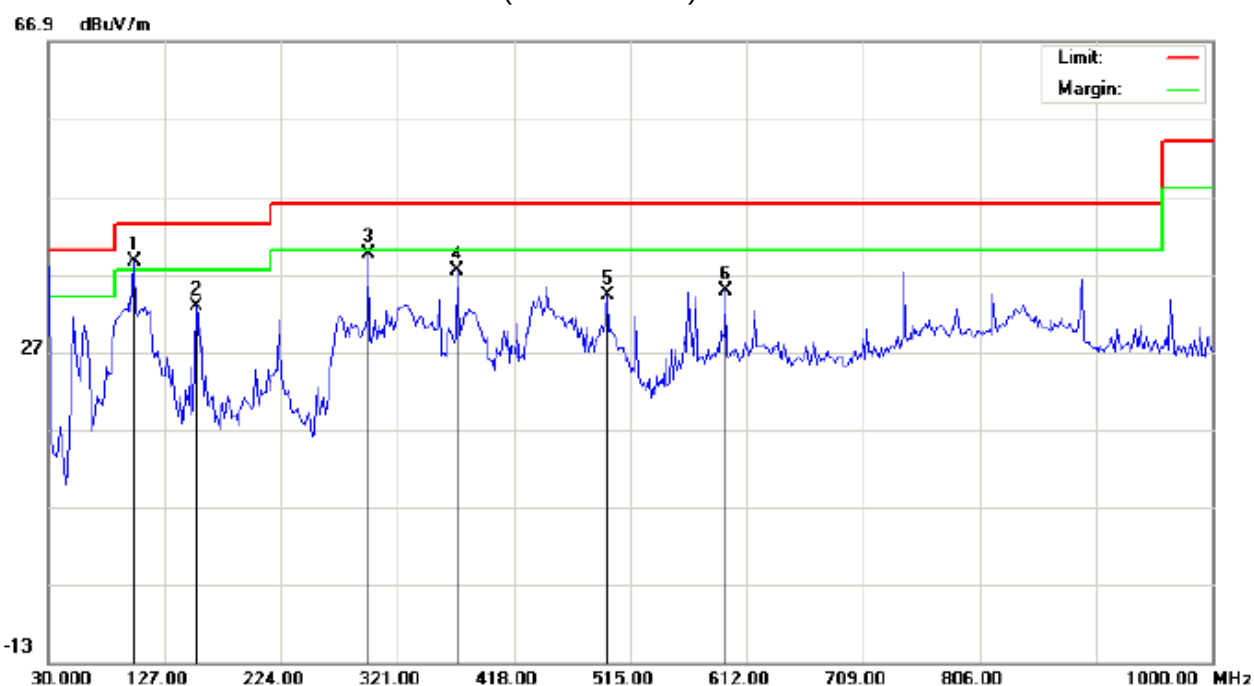
Polarization: **Vertical**
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	!	101.1333	33.39	4.20	37.59	43.50	-5.91	peak			
2		152.8667	24.78	6.37	31.15	43.50	-12.35	peak			
3	*	371.1166	20.80	19.98	40.78	46.00	-5.22	peak			
4		445.4832	15.38	21.59	36.97	46.00	-9.03	peak			
5		610.3832	9.27	25.46	34.73	46.00	-11.27	peak			
6		742.9500	10.76	29.02	39.78	46.00	-6.22	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL



Site: site #1
Limit: FCC Class B 3M Radiation
EUT: tablet pc
M/N: PC7067ME
Mode: Middle Channel TX
Note:

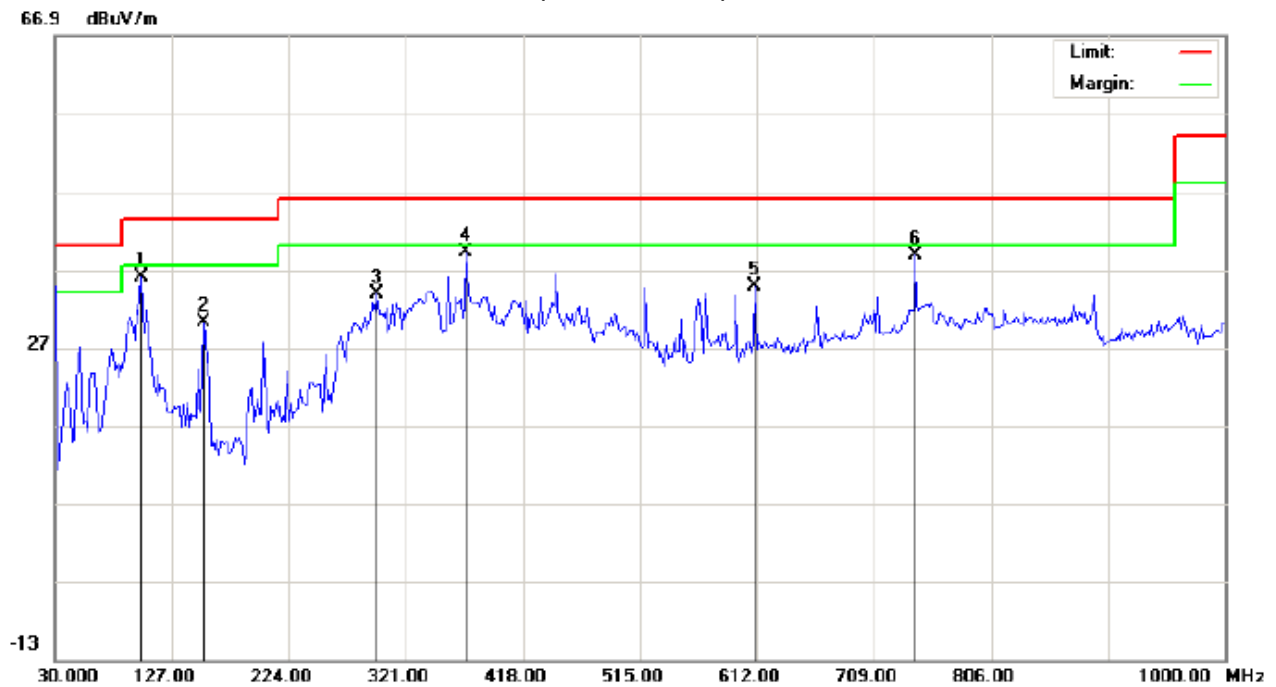
Polarization: *Horizontal*
Power:
Distance: 3m

Temperature: 26
Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	101.1333	30.50	8.16	38.66	43.50	-4.84	peak			
2		152.8667	25.93	6.97	32.90	43.50	-10.60	peak			
3		296.7500	21.90	17.63	39.53	46.00	-6.47	peak			
4		371.1166	17.40	19.98	37.38	46.00	-8.62	peak			
5		495.6000	11.87	22.36	34.23	46.00	-11.77	peak			
6		594.2166	9.93	24.82	34.75	46.00	-11.25	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)- MIDDLE CHANNEL -VERTICAL

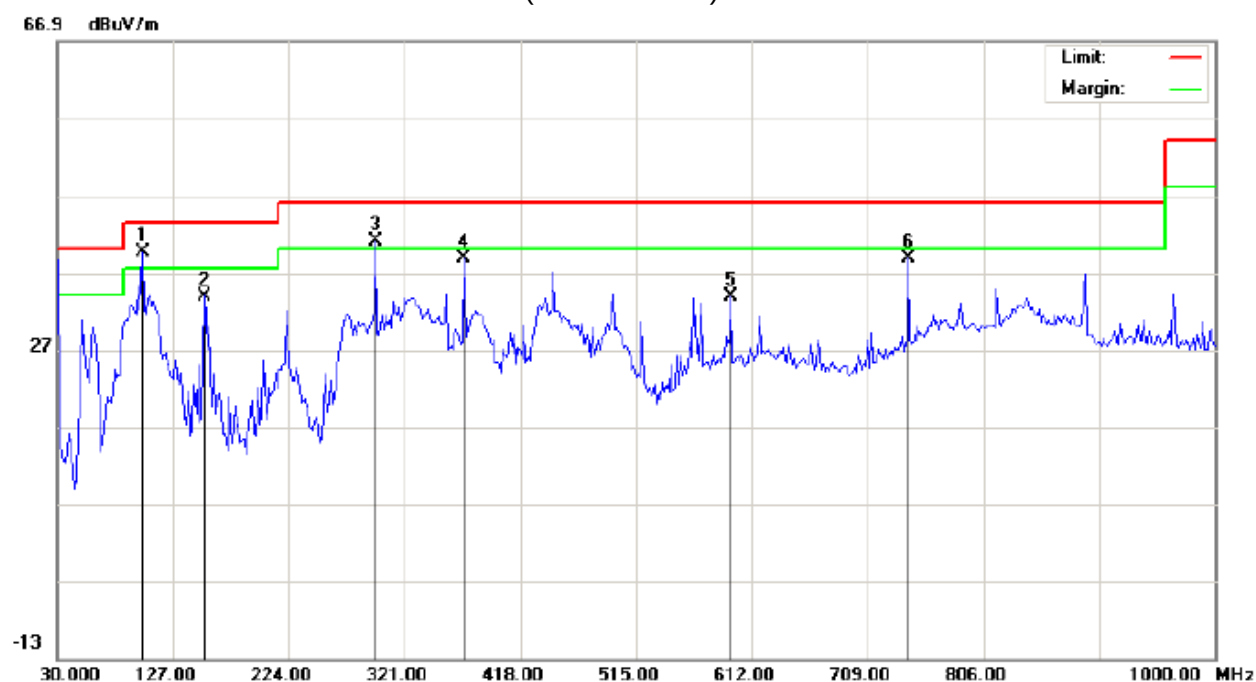


Site: site #1	Polarization: Vertical	Temperature: 26
Limit: FCC Class B 3M Radiation	Power:	Humidity: 60 %
EUT: tablet pc	Distance: 3m	
M/N: PC7067ME		
Mode: Middle Channel TX		
Note:		

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		101.1333	31.89	4.20	36.09	43.50	-7.41	peak			
2		152.8667	23.78	6.37	30.15	43.50	-13.35	peak			
3		296.7500	16.13	17.63	33.76	46.00	-12.24	peak			
4	*	371.1166	19.30	19.98	39.28	46.00	-6.72	peak			
5		610.3832	9.27	25.46	34.73	46.00	-11.27	peak			
6		742.9500	9.76	29.02	38.78	46.00	-7.22	peak			

RESULT: PASS

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1

Limit: FCC Class B 3M Radiation

EUT: tablet pc

M/N: PC7067ME

Mode: High Channel TX

Note:

Polarization: *Horizontal*

Power:

Distance: 3m

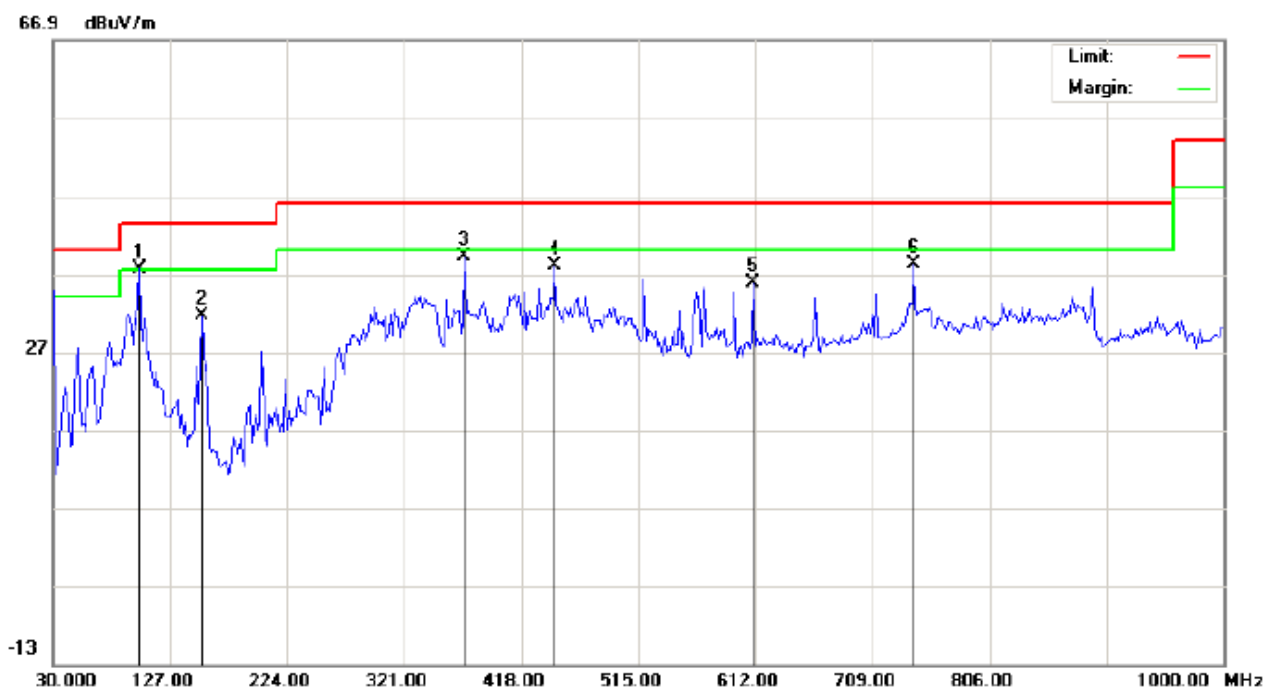
Temperature: 26

Humidity: 60 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	101.1333	31.50	8.16	39.66	43.50	-3.84	peak			
2		152.8667	26.93	6.97	33.90	43.50	-9.60	peak			
3	!	296.7500	23.40	17.63	41.03	46.00	-4.97	peak			
4		371.1166	18.90	19.98	38.88	46.00	-7.12	peak			
5		594.2166	8.93	24.82	33.75	46.00	-12.25	peak			
6		742.9500	11.48	27.32	38.80	46.00	-7.20	peak			

RESULT: PASS

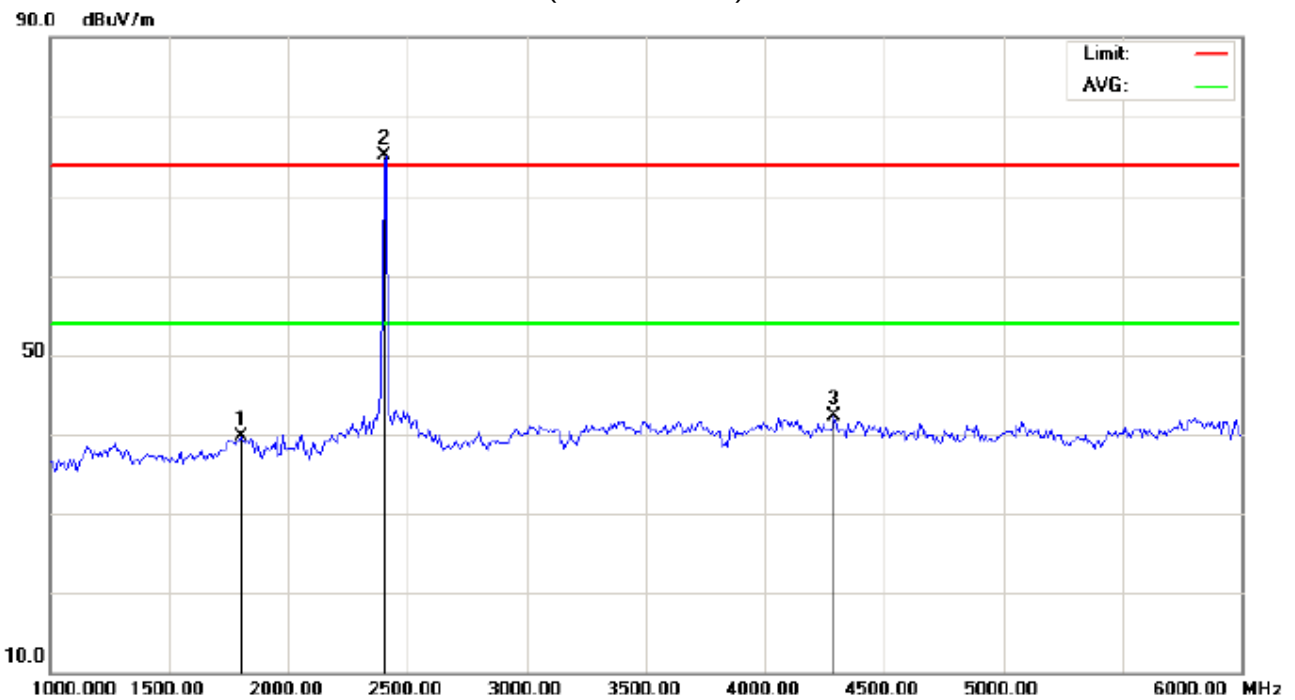
RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Site: site #1	Polarization: <i>Vertical</i>	Temperature: 26
Limit: FCC Class B 3M Radiation	Power:	Humidity: 60 %
EUT: tablet pc	Distance: 3m	
M/N: PC7067ME		
Mode: High Channel TX		
Note:		

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	101.1333	33.39	4.20	37.59	43.50	-5.91	peak			
2		152.8667	25.28	6.37	31.65	43.50	-11.85	peak			
3		371.1166	19.30	19.98	39.28	46.00	-6.72	peak			
4		445.4832	16.38	21.59	37.97	46.00	-8.03	peak			
5		610.3832	10.27	25.46	35.73	46.00	-10.27	peak			
6		742.9500	9.26	29.02	38.28	46.00	-7.72	peak			

RESULT: PASS

RADIATED EMISSION ABOVE 1GHZ**RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL**

Site: site #1

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: tablet pc

Distance: 3m

M/N: PC7067ME

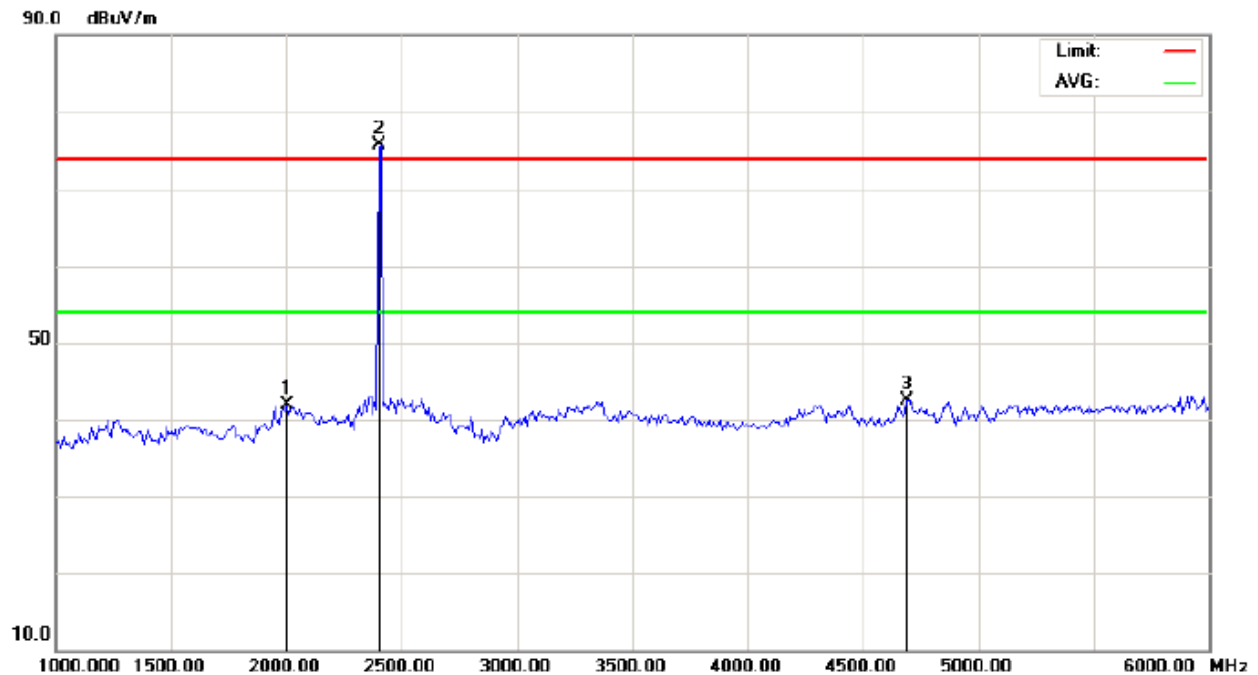
Mode: Low Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1800.000	39.76	0.00	39.76	74.00	-34.24	peak			
2	*	2402.000	75.13	0.00	75.13	74.00	1.13	peak			
3		4291.667	42.28	0.00	42.28	74.00	-31.72	peak			

RESULT: PASS

RADIATED EMISSION TEST-(ABOVE 1GHZ)-LOW CHANNEL-VERTICAL

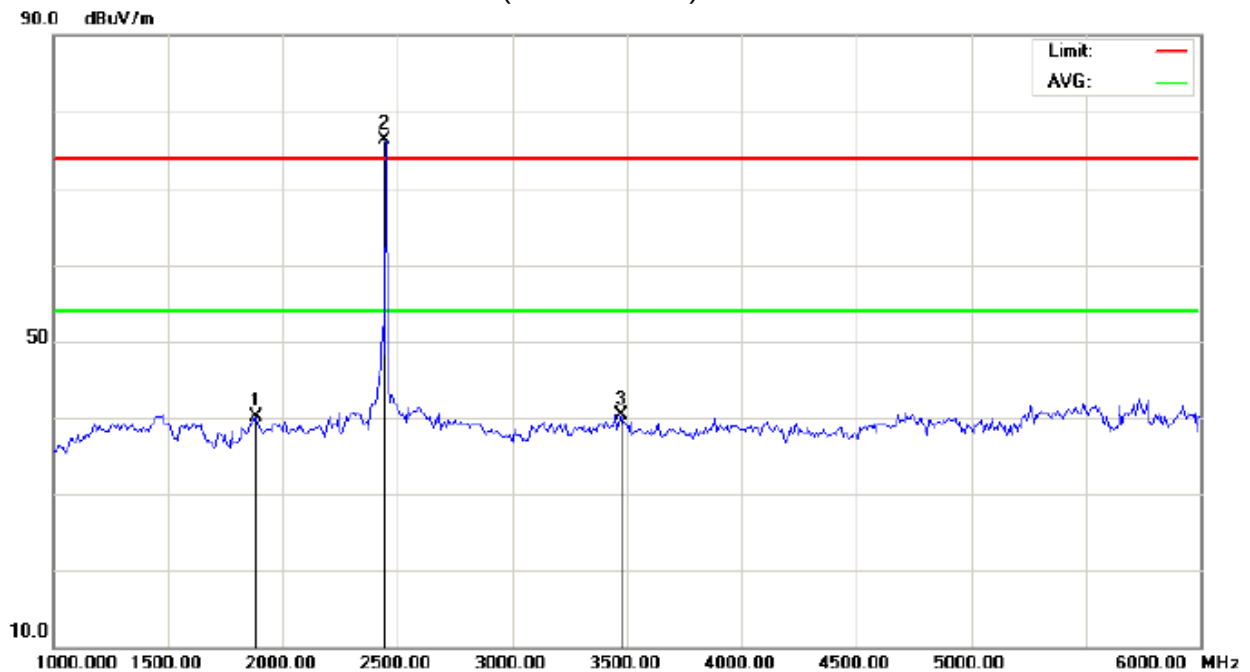


Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance: 3m
M/N: PC7067ME
Mode: Low Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2000.000	41.85	0.00	41.85	74.00	-32.15	peak			
2	*	2402.000	75.63	0.00	75.63	74.00	1.63	peak			
3		4691.667	42.41	0.00	42.41	74.00	-31.59	peak			

RESULT: PASS

RADIATED EMISSION TEST-(ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL

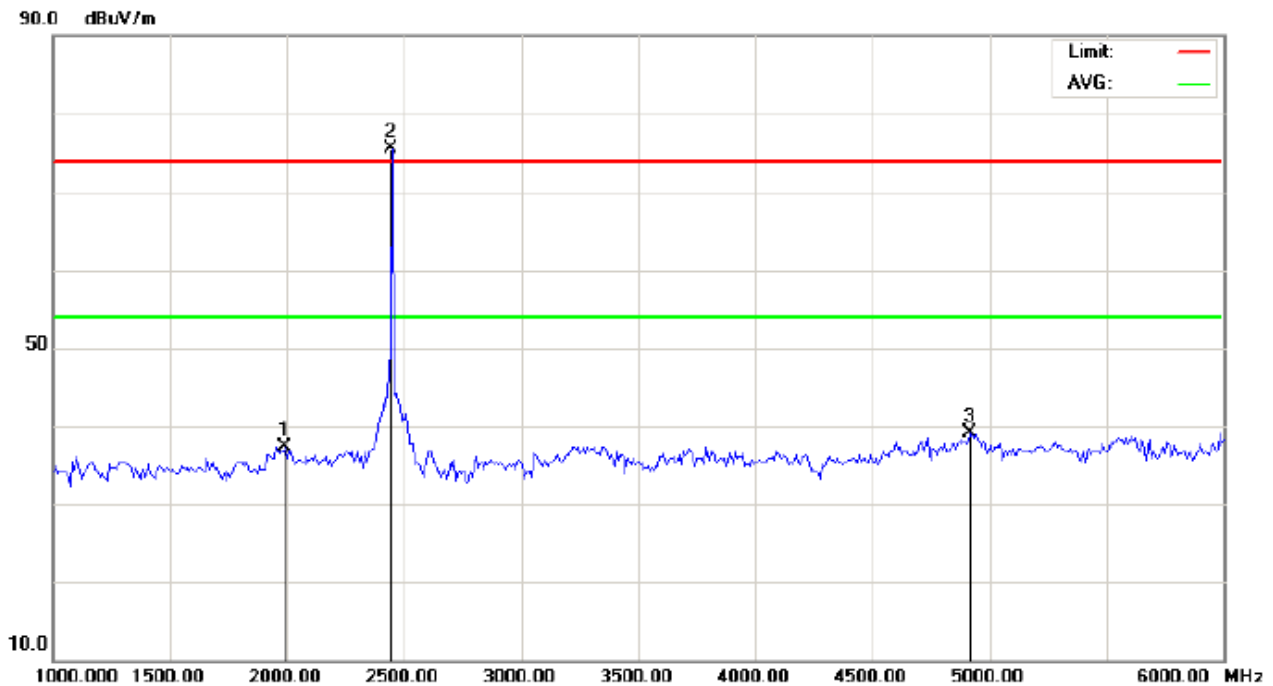


Site: site #1 Polarization: *Horizontal* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance: 3m
M/N: PC7067ME
Mode: Middle Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1883.333	40.18	0.00	40.18	74.00	-33.82	peak			
2	*	2442.000	76.30	0.00	76.30	74.00	2.30	peak			
3		3475.000	40.40	0.00	40.40	74.00	-33.60	peak			

RESULT: PASS

RADIATED EMISSION TEST-(ABOVE 1GHZ)-MIDDLE CHANNEL-VERTICAL

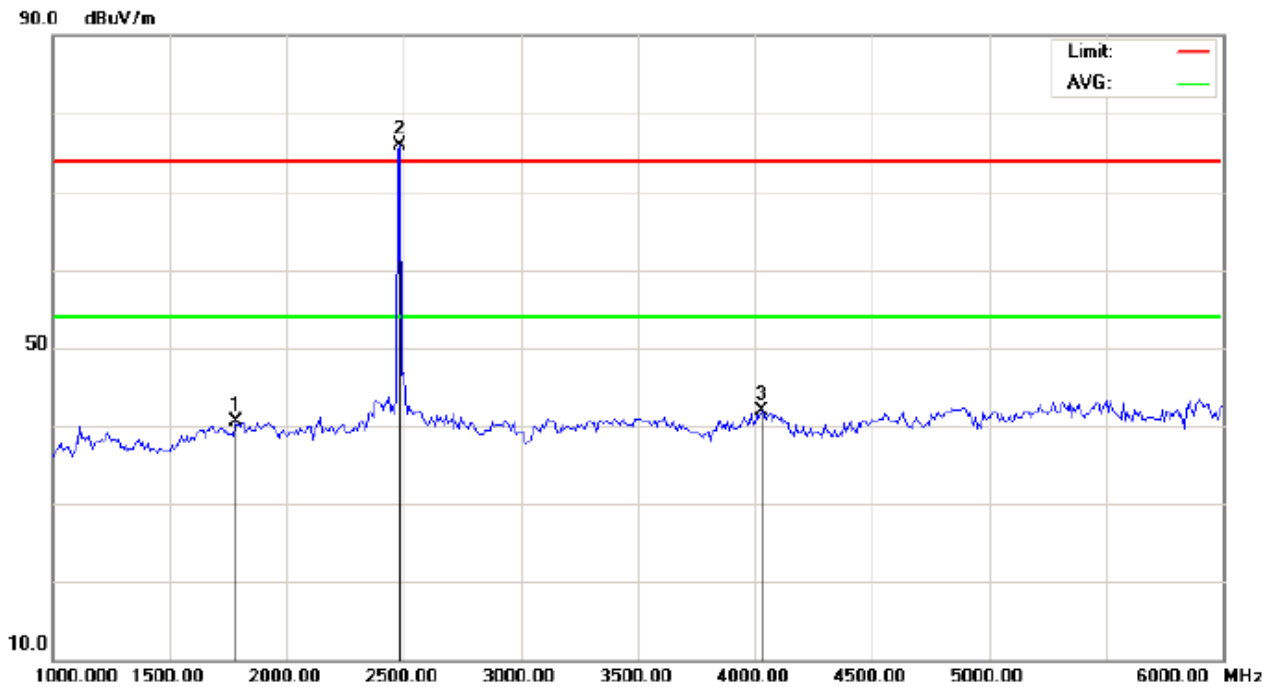


Site: site #1 Polarization: *Vertical* Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance: 3m
M/N: PC7067ME
Mode: Middle Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1991.667	37.37	0.00	37.37	74.00	-36.63	peak			
2	*	2442.000	75.58	0.00	75.58	74.00	1.58	peak			
3		4916.667	39.02	0.00	39.02	74.00	-34.98	peak			

RESULT: PASS

RADIATED EMISSION TEST-(ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL



Site: site #1

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: tablet pc

Distance: 3m

M/N: PC7067ME

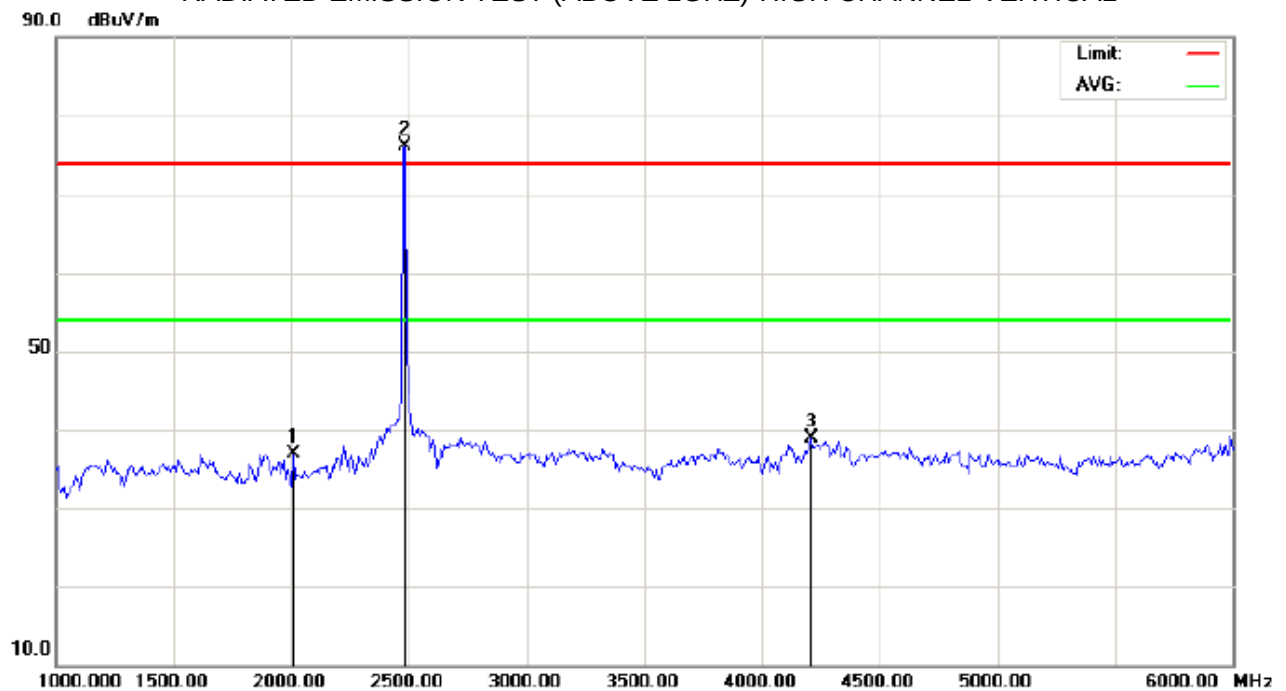
Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		1783.333	40.54	0.00	40.54	74.00	-33.46	peak			
2	*	2480.000	75.98	0.00	75.98	74.00	1.98	peak			
3		4033.333	42.00	0.00	42.00	74.00	-32.00	peak			

RESULT: PASS

RADIATED EMISSION TEST-(ABOVE 1GHZ)-HIGH CHANNEL-VERTICAL



Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance: 3m
M/N: PC7067ME
Mode: High Channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2008.333	36.91	0.00	36.91	74.00	-37.09	peak			
2	*	2480.000	76.05	0.00	76.05	74.00	2.05	peak			
3		4208.333	38.91	0.00	38.91	74.00	-35.09	peak			

RESULT: PASS

8. BAND EDGE EMISSION

8.1. MEASUREMENT PROCEDURE

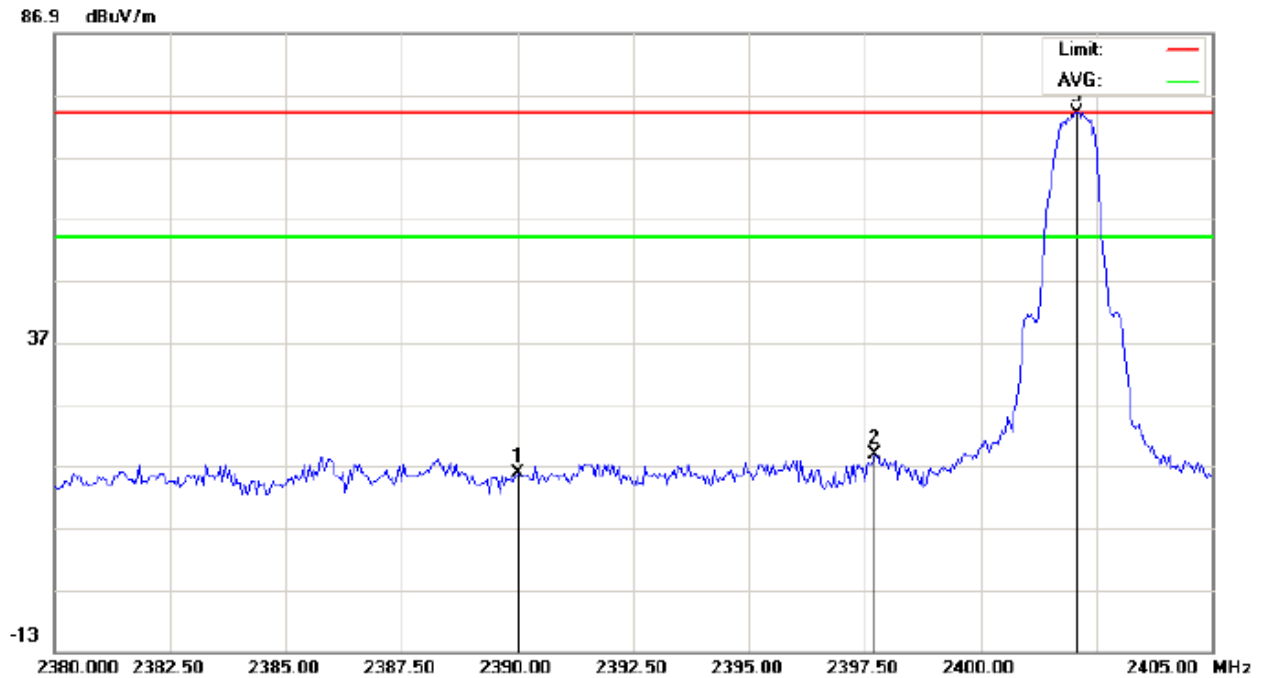
1. Set the EUT Work on the top, the bottom operation frequency individually.
2. Set SPA Start or Stop Frequency = Operation Frequency, $RBW \geq 1\% \text{span}$, $VBW \geq RBW$
3. The band edges was measured and recorded.

8.2. TEST SET-UP

Radiated same as 6.2

8.3. TEST RESULT

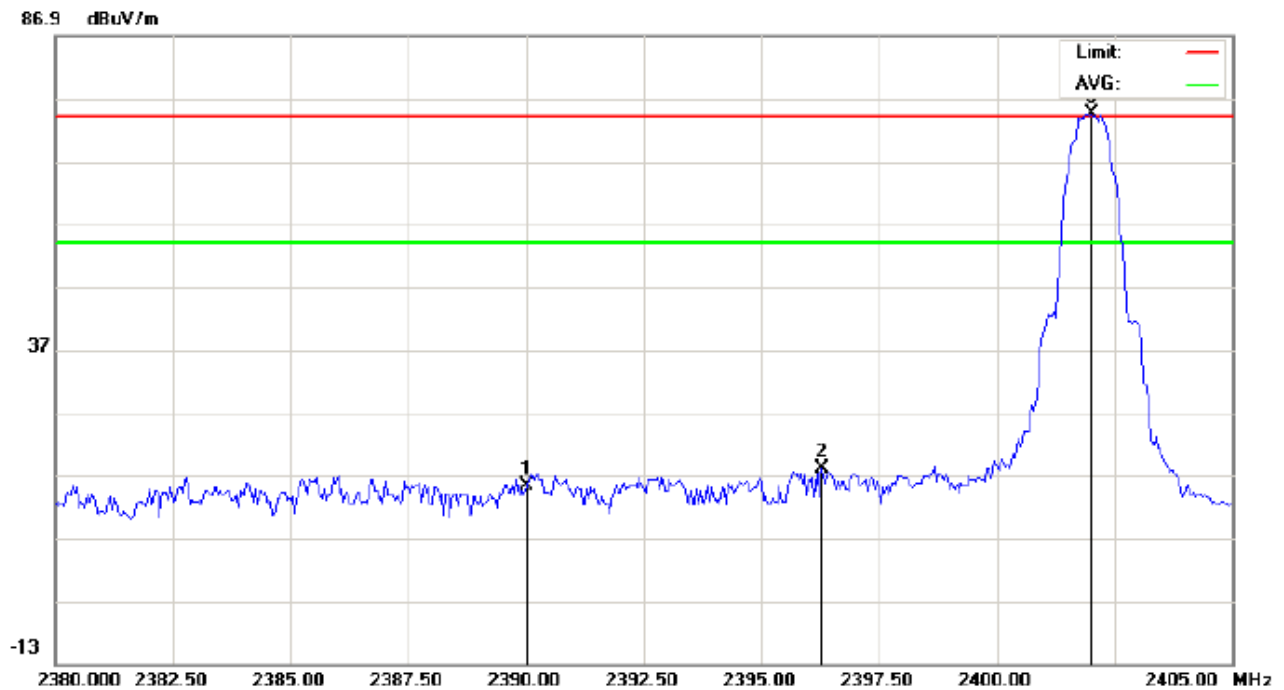
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Horizontal



Site: site #1 Polarization: **Horizontal** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance:
M/N: PC7067ME
Mode: Low channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2390.000	25.37	-9.69	15.68	74.00	-58.32	peak			
2		2397.708	28.43	-9.68	18.75	74.00	-55.25	peak			
3	*	2402.070	83.81	-9.68	74.13	74.00	0.13	peak			

TEST PLOT OF BAND EDGE FOR LOW CHANNEL - Vertical

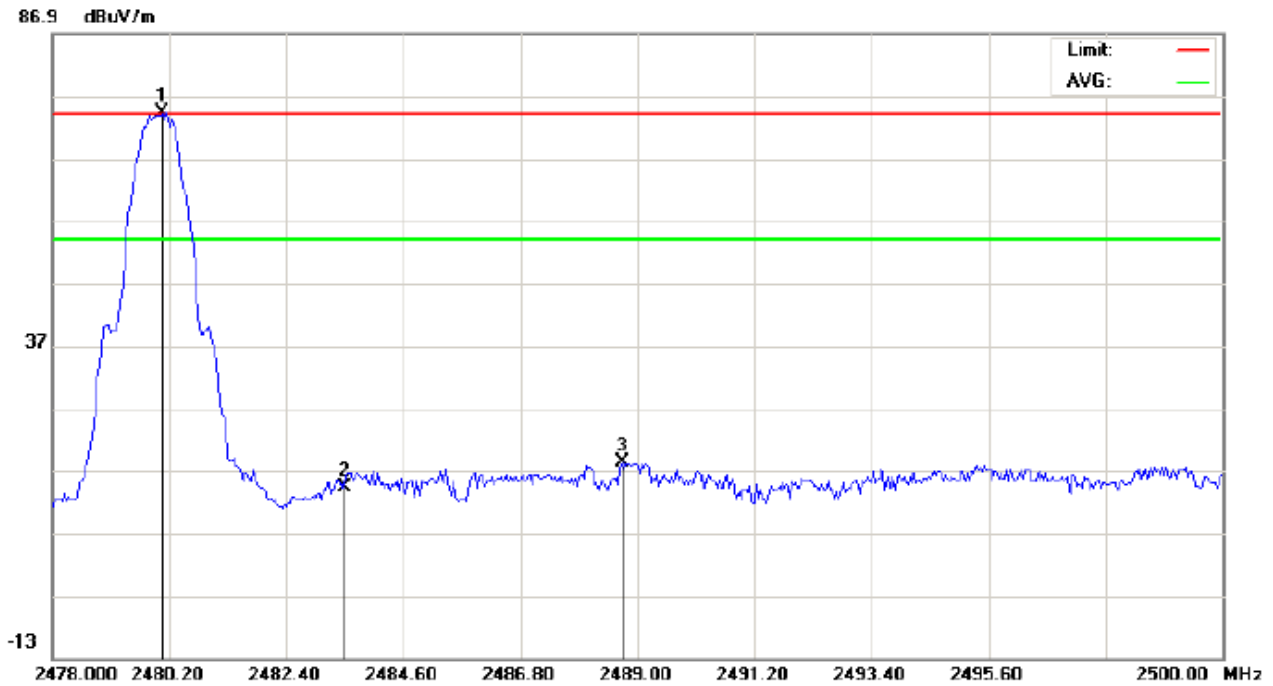


Site: site #1 Polarization: **Vertical** Temperature: 26
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %
EUT: tablet pc Distance:
M/N: PC7067ME
Mode: Low channel TX
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2390.000	25.01	-9.69	15.32	74.00	-58.68	peak			
2		2396.292	27.78	-9.68	18.10	74.00	-55.90	peak			
3	*	2402.000	84.23	-9.68	74.55	74.00	0.55	peak			

RESULT: PASS

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL –Horizontal



Site: site #1

Polarization: *Horizontal*

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: tablet pc

Distance:

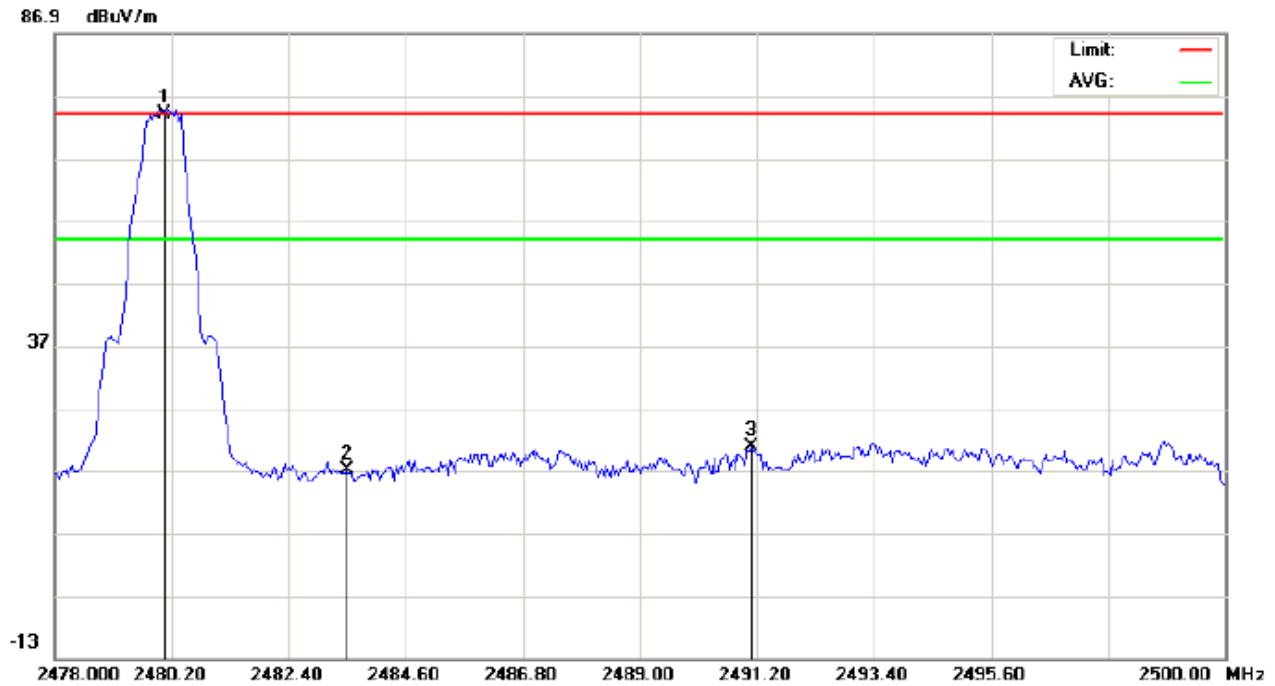
M/N: PC7067ME

Mode: High channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.080	83.95	-9.59	74.36	74.00	0.36	peak			
2		2483.500	23.97	-9.59	14.38	74.00	-59.62	peak			
3		2488.707	27.82	-9.58	18.24	74.00	-55.76	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Vertical



Site: site #1

Polarization: **Vertical**

Temperature: 26

Limit: FCC Class B 3M Radiation above 1GHZ(PK)

Power:

Humidity: 60 %

EUT: tablet pc

Distance:

M/N: PC7067ME

Mode: High channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.060	83.68	-9.59	74.09	74.00	0.09	peak			
2		2483.500	26.68	-9.59	17.09	74.00	-56.91	peak			
3		2491.090	30.34	-9.58	20.76	74.00	-53.24	peak			

RESULT: PASS

9. 6DB BANDWIDTH

9.1. TEST EQUIPMENT LIST AND DETAILS

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	07/17/2013	07/16/2014
RECEIVER ANTENNA	ETS	2175	57337	07/17/2013	07/16/2014

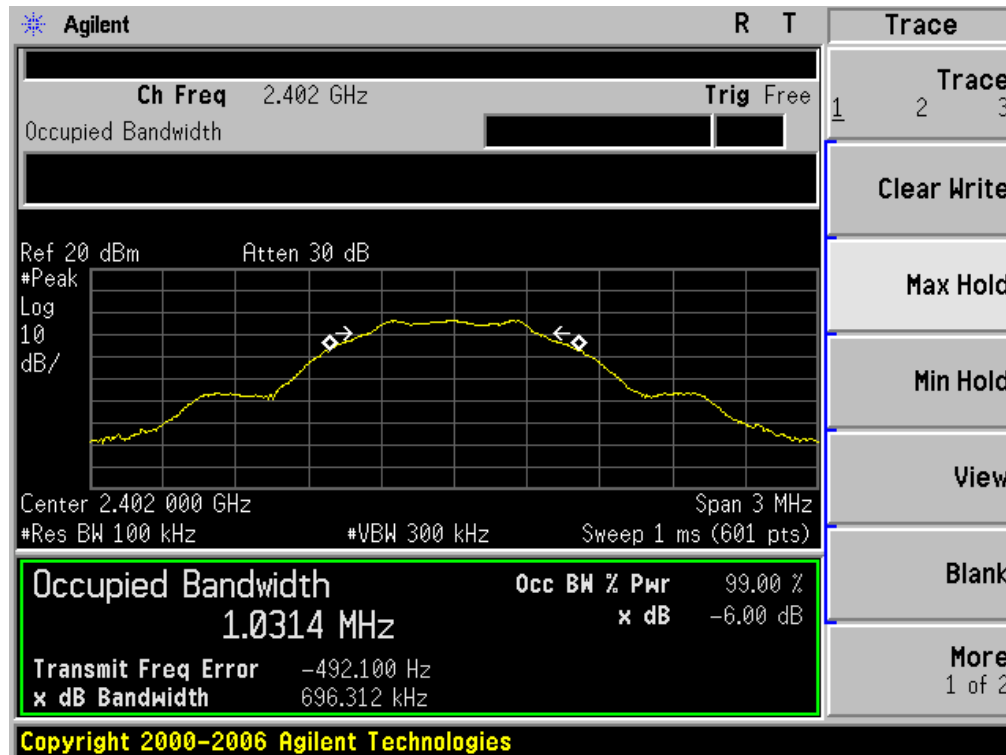
9.2. TEST PROCEDURE

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\geq$ RBW.
4. Set SPA Trace 1 Max hold, then View.

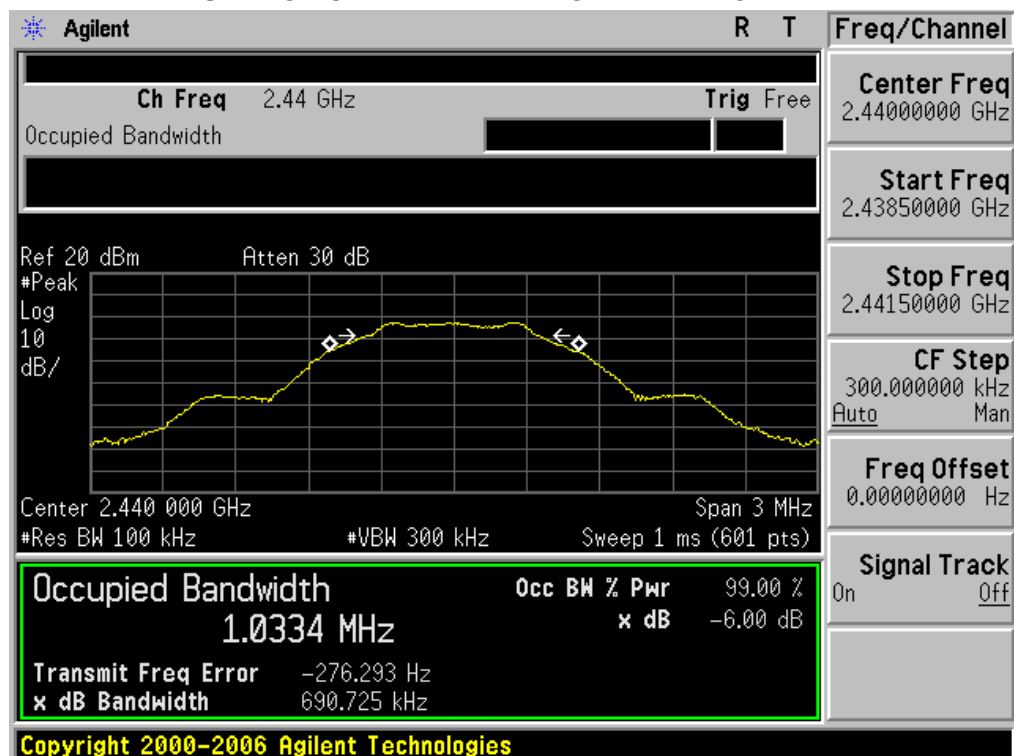
9.3. SUMMARY OF TEST RESULTS/PLOTS

Channel	6dB Bandwidth (KHz)	Minimum Limit (KHz)	Pass/Fail
Low	696.312	500KHz	Pass
Middle	690.725		Pass
High	692.370		Pass

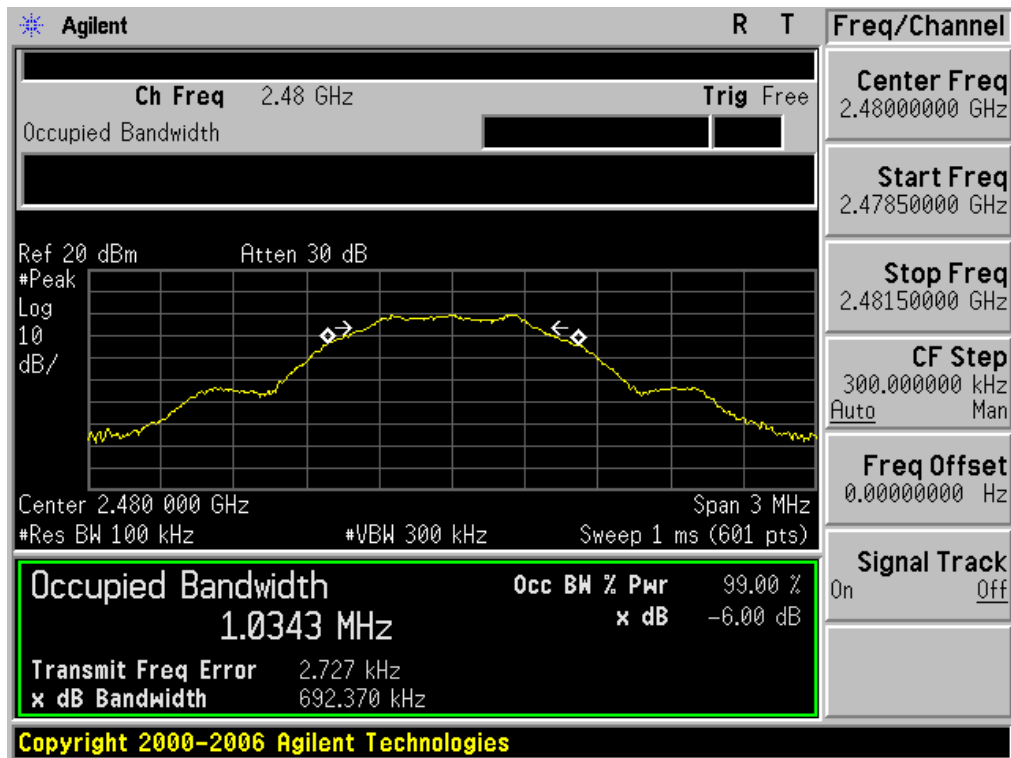
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



10. CONDUCTED OUTPUT POWER

10.1. MEASUREMENT PROCEDURE

For peak power test:

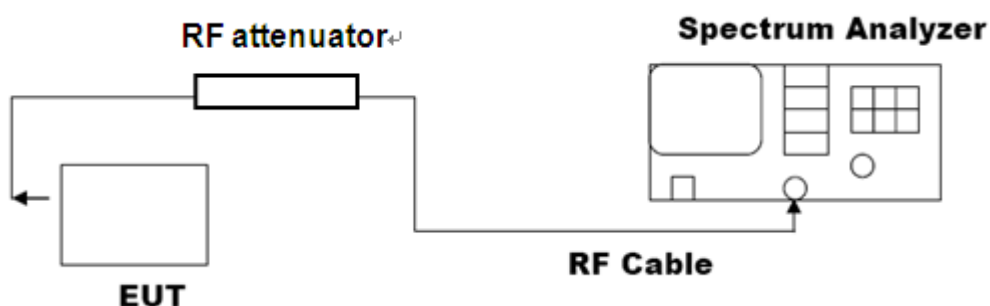
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
3. Set the EUT Work on the top, middle and the bottom operation frequency individually.
4. Use the following spectrum analyzer settings:
 - Set the RBW = 1 MHz
 - Set the VBW $\geq$ 3 RBW
 - Set the span $\geq$ 1.5 x DTS bandwidth
 - Detector = peak
 - Sweep time = auto couple
 - Trace mode = max hold
5. Allow the trace to stabilize. Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges.
6. Record the result form the Spectrum Analyzer.

For average power test:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Connect EUT RF output port to power probe through an RF attenuator.
3. Connect the power probe to the PC.
4. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
5. Record the maximum power from the software.
6. The maximum peak power shall be less 1 Watt (30dBm).

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

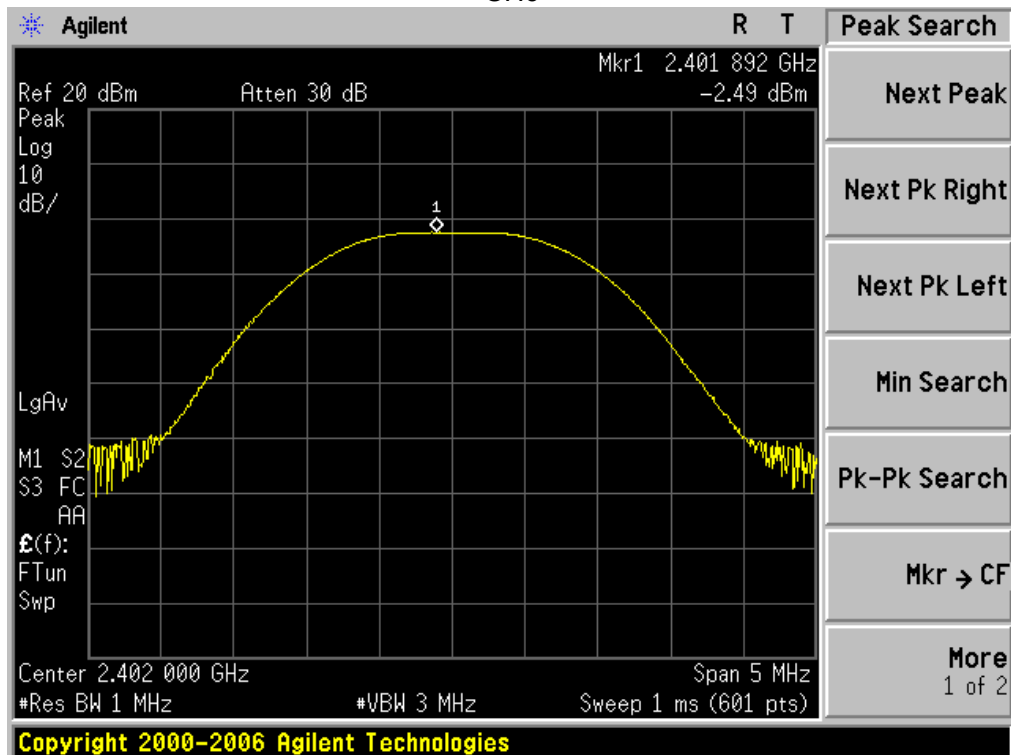
10.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



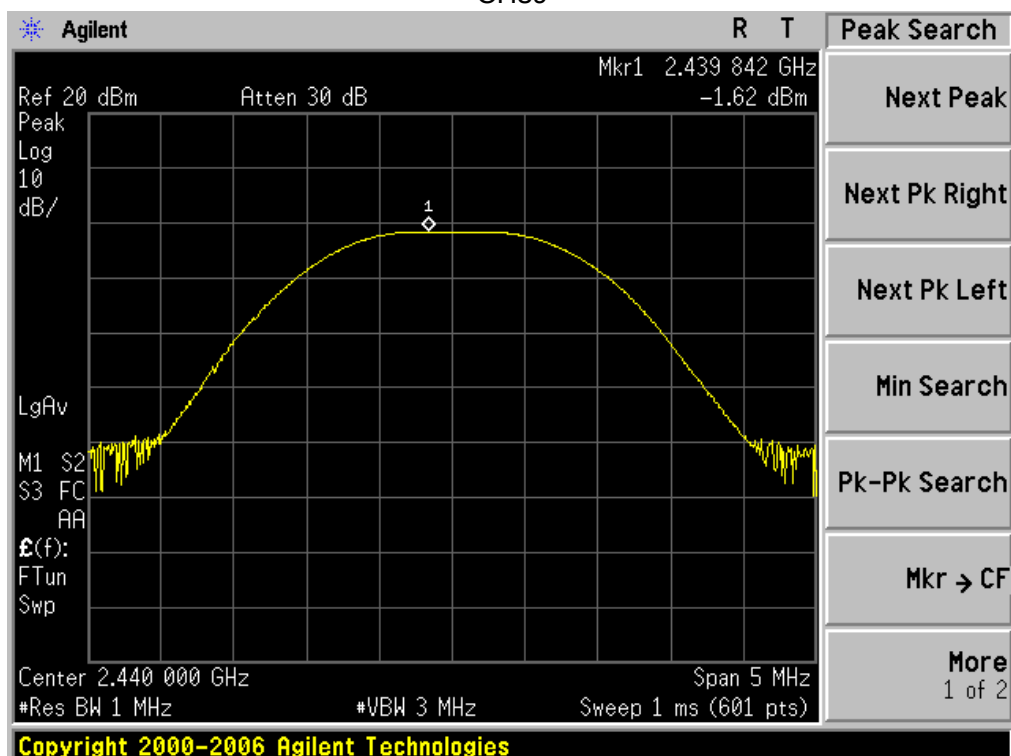
10.3. LIMITS AND MEASUREMENT RESULT

Channel	Average Power (dBm)	Peak Power (dBm)	Applicable Limits (dBm)	Pass/Fail
Low Channel	-4.34	-2.49	20	Pass
Middle Channel	-3.51	-1.62	20	Pass
High Channel	-1.63	0.28	20	Pass

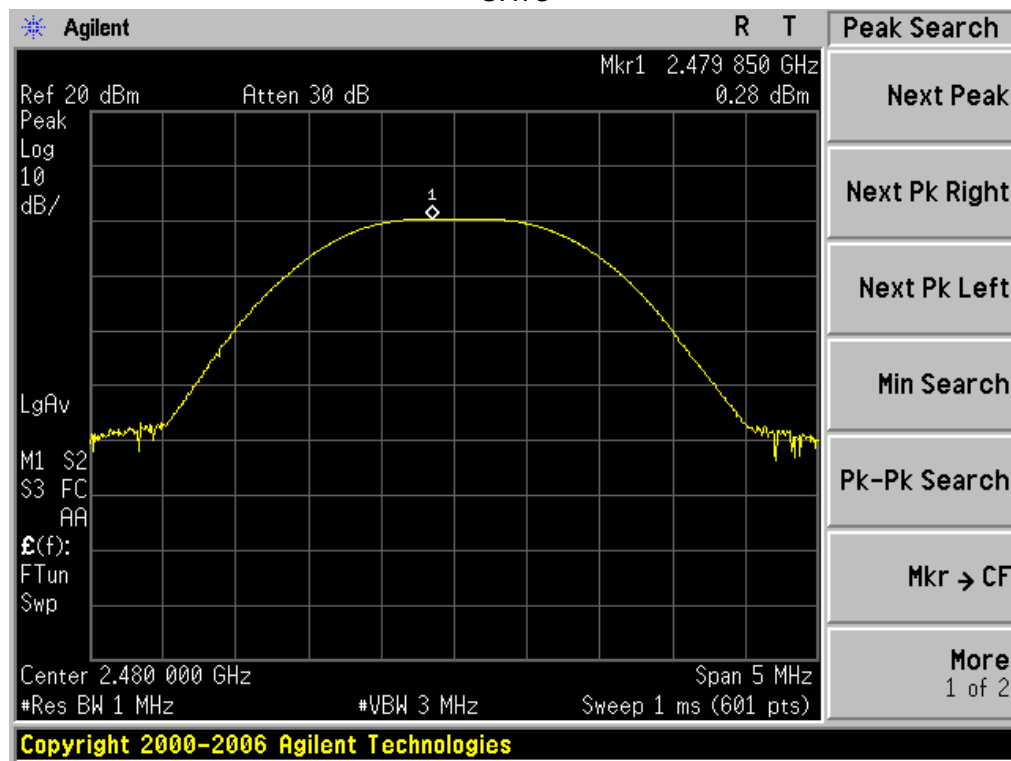
CH0



CH39



CH78



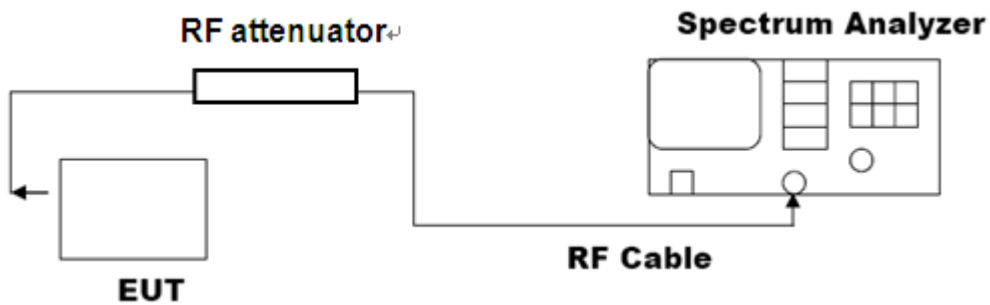
11. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

11.1 MEASUREMENT PROCEDURE

- (1). The EUT was placed on a turn table which is 0.8m above ground plane.
- (2). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (3). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (4). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the KDB 558074 item 10.2 was used in this testing.

11.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



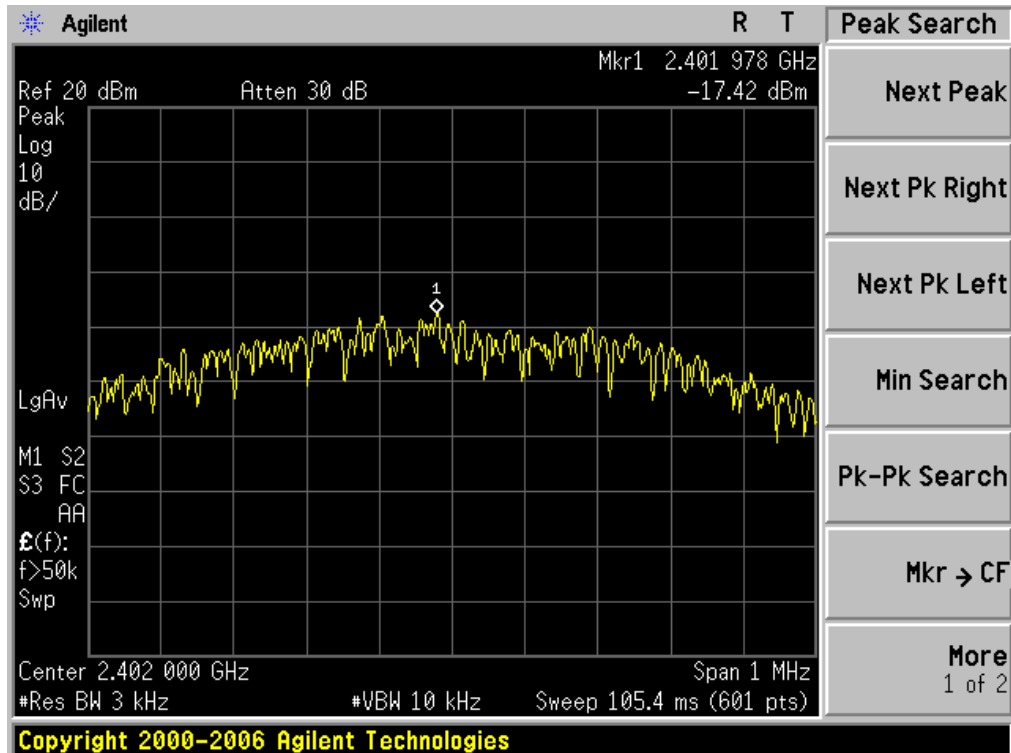
11.3 MEASUREMENT EQUIPMENT USED

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
PSA SERIES SPECTRUM ANALYZER	AGILENT	E4440A	US41421290	07/17/2013	07/16/2014
RECEIVER ANTENNA	ETS	2175	57337	07/17/2013	07/16/2014

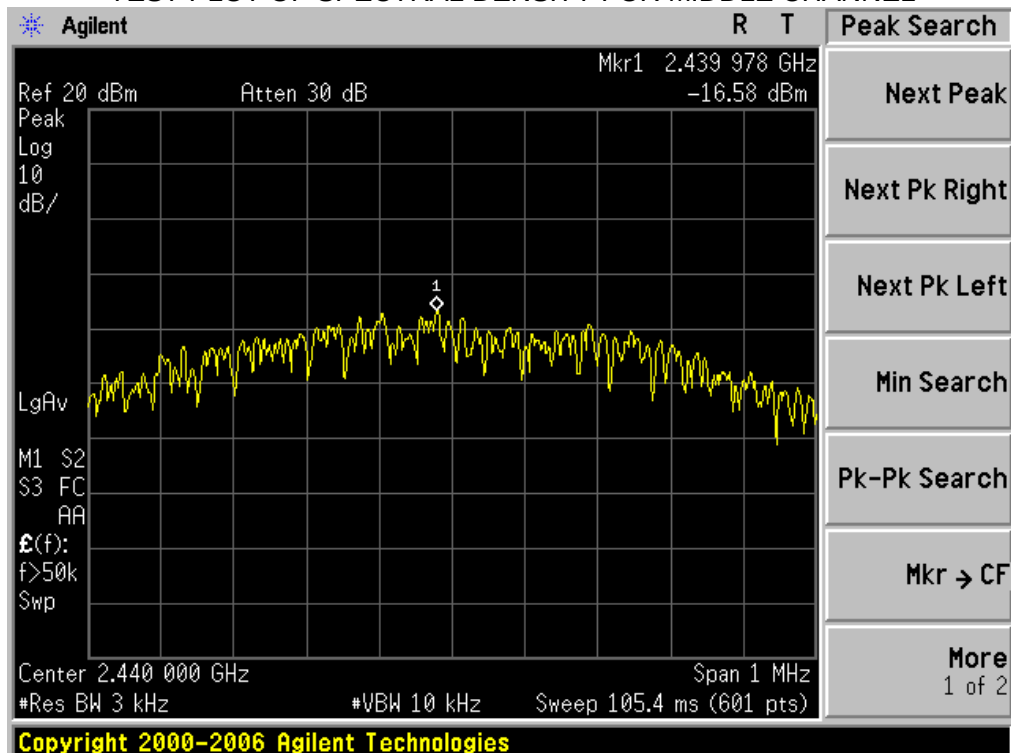
11.4 LIMITS AND MEASUREMENT RESULT

Channel No.	PSD (dBm)	Limit (dBm)	Result
Low Channel	-32.62	8	Pass
Middle Channel	-31.78	8	Pass
High Channel	-29.85	8	Pass

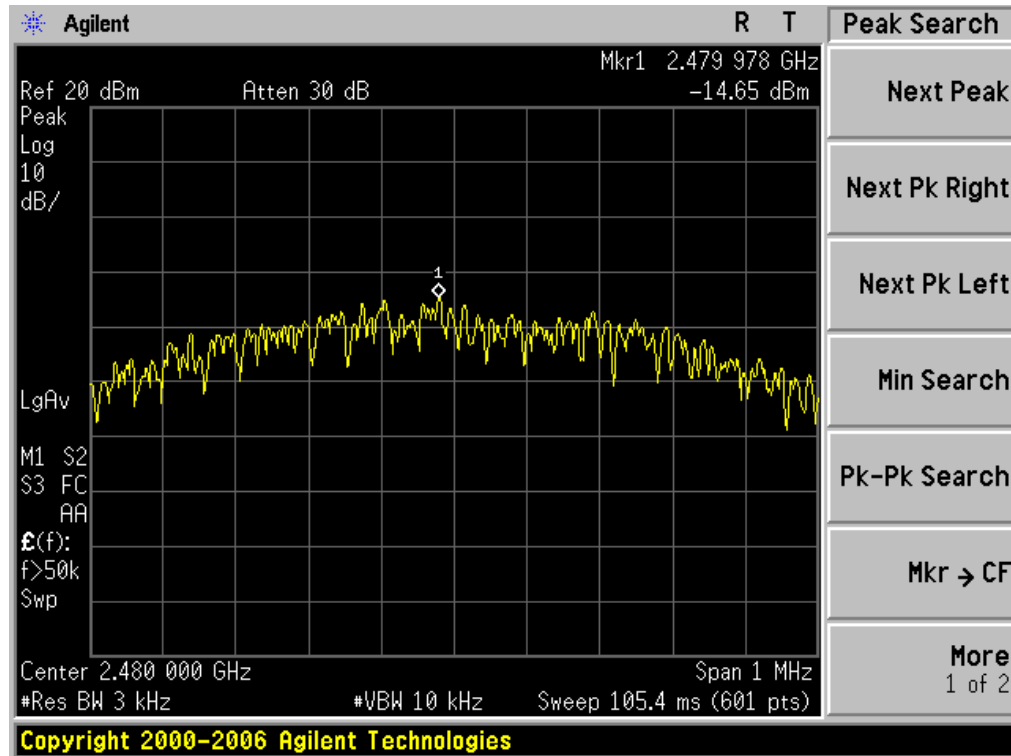
TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



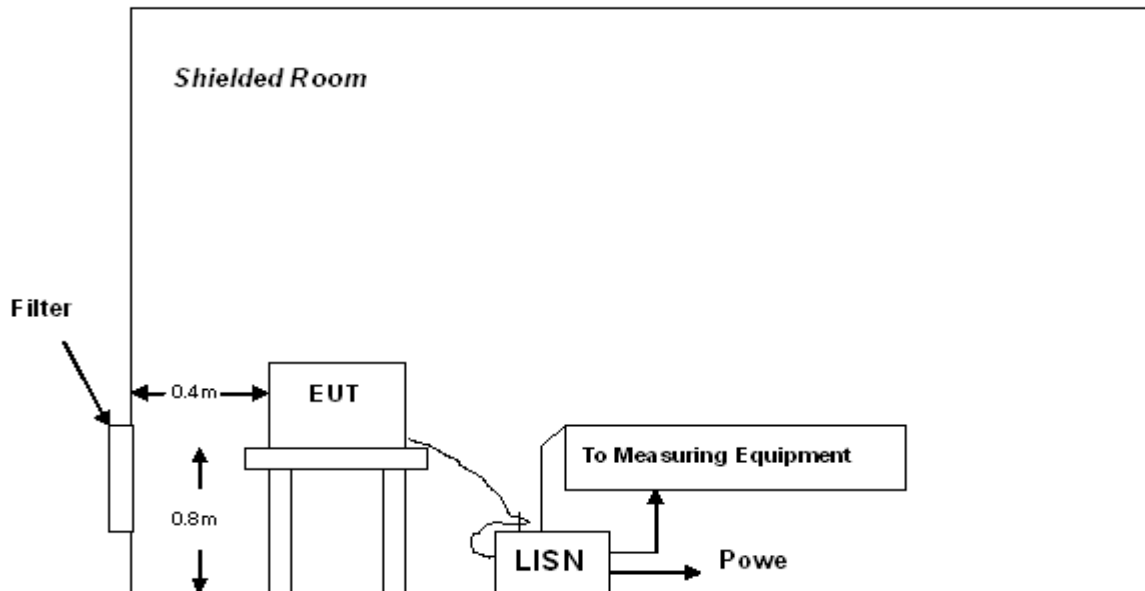
12. FCC LINE CONDUCTED EMISSION TEST

12.1 LIMITS

Frequency	Maximum RF Line Voltage	
	Q.P.(dBuV)	Average(dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

****Note:** 1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

12.2 TEST SETUP



A: Powered through filter

12.3 PRELIMINARY PROCEDURE

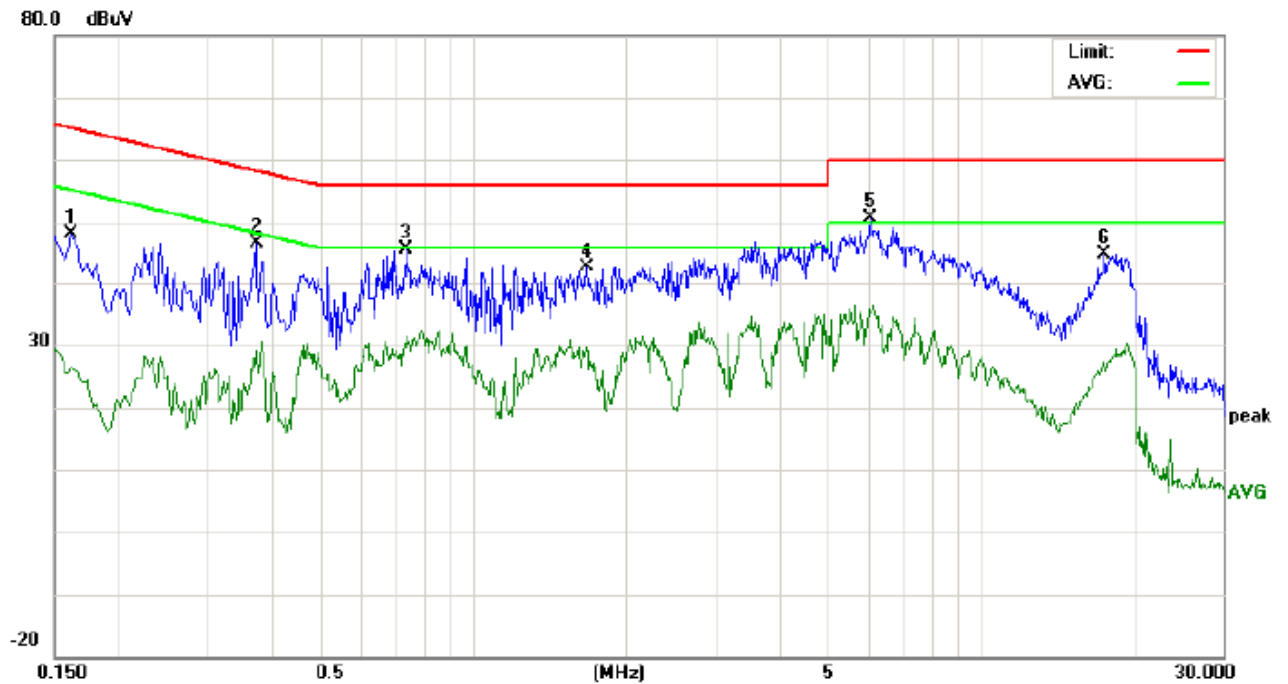
- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) All support equipments received AC120V/60Hz power from a LISN, if any.
- 5) The EUT received power by laptop which received power by a LISN.
- 6) The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test.
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4 FINAL TEST PROCEDURE

- 10) EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 11) 2) A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 12) 3) The test data of the worst case condition(s) was reported on the Summary Data page.

12.5 TEST RESULT OF POWER LINE

Line Conducted Emission Test Line 1-L



Site: Conduction

Phase: **L1**

Temperature: 26

Limit: FCC Class B Conduction(QP)

Power:

Humidity: 60 %

EUT: tablet pc

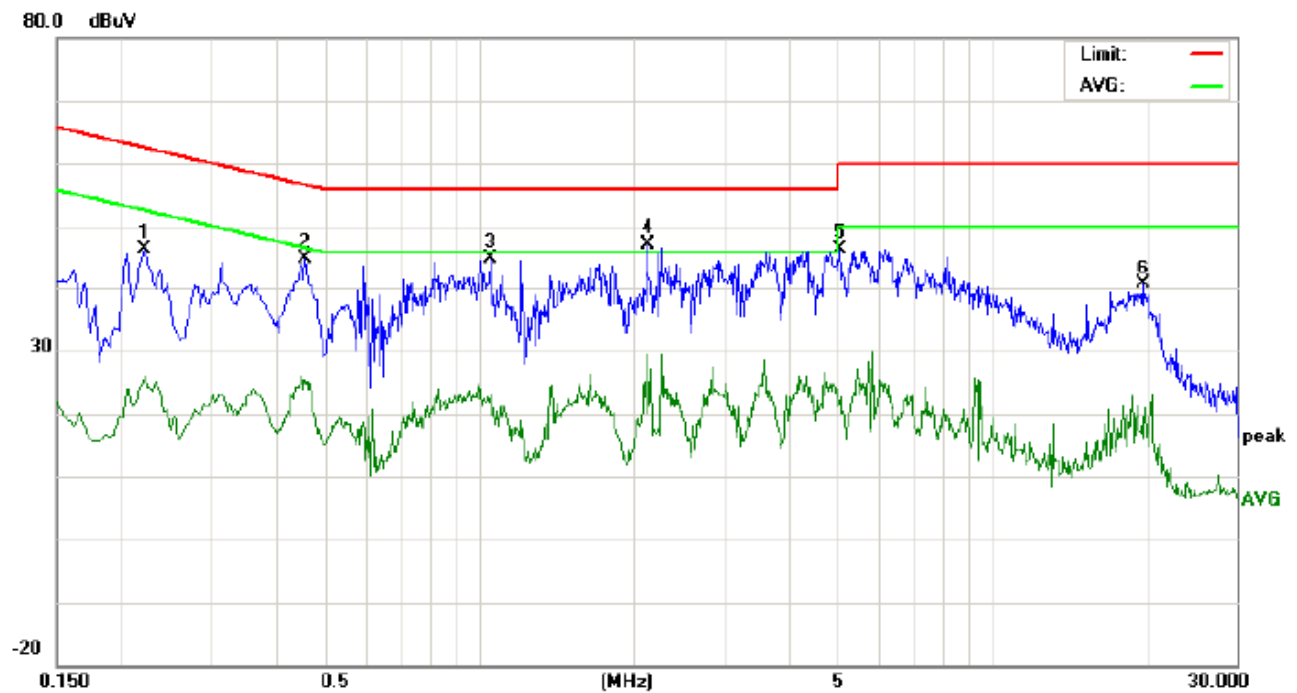
M/N: PC7067ME

Mode: Normal Operating(BT)

Note:

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1620	37.98		16.12	10.17	48.15		26.29	65.36	55.36	-17.21	-29.07	P	
2	0.3738	36.39		18.92	10.32	46.71		29.24	58.41	48.41	-11.70	-19.17	P	
3	0.7419	35.38		20.93	10.32	45.70		31.25	56.00	46.00	-10.30	-14.75	P	
4	1.6777	32.42		19.39	10.32	42.74		29.71	56.00	46.00	-13.26	-16.29	P	
5	6.0696	40.27		24.96	10.28	50.55		35.24	60.00	50.00	-9.45	-14.76	P	
6	17.4817	34.76		17.32	10.12	44.88		27.44	60.00	50.00	-15.12	-22.56	P	

Line Conducted Emission Test Line 1-N



Site: Conduction Phase: **N** Temperature: 26
Limit: FCC Class B Conduction(QP) Power: Humidity: 60 %
EUT: tablet pc
M/N: PC7067ME
Mode: Normal Operating(BT)
Note:

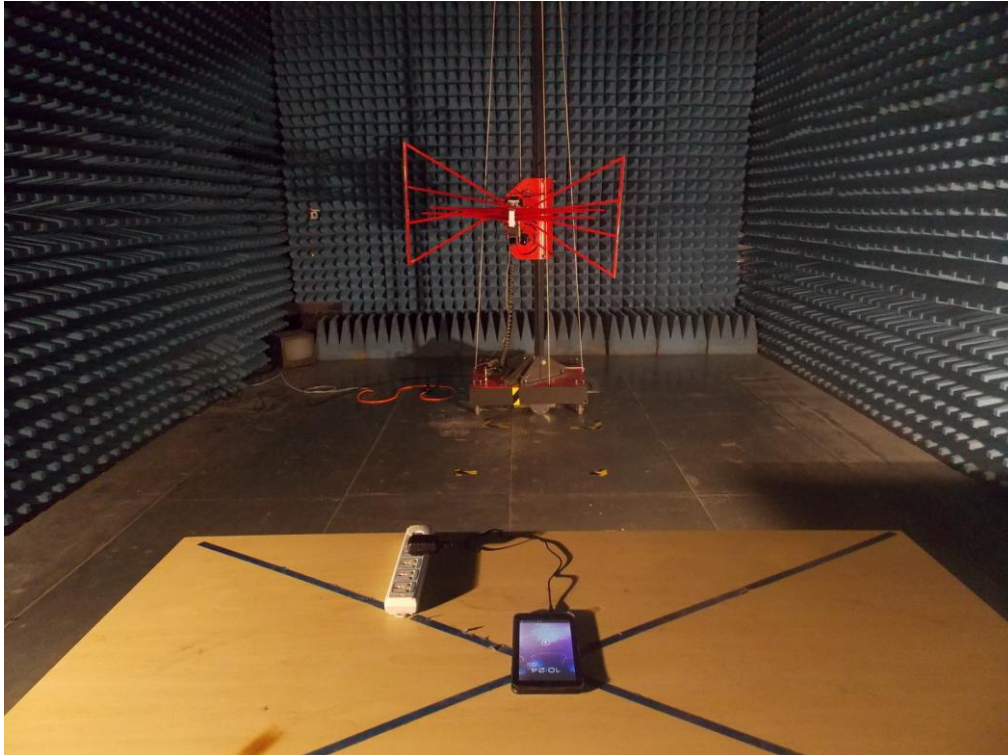
No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2220	36.18		15.51	10.24	46.42		25.75	62.74	52.74	-16.32	-26.99	P	
2	0.4580	34.61		14.96	10.37	44.98		25.33	56.73	46.73	-11.75	-21.40	P	
3	1.0500	34.47		12.79	10.37	44.84		23.16	56.00	46.00	-11.16	-22.84	P	
4	2.1299	36.77		18.98	10.27	47.04		29.25	56.00	46.00	-8.96	-16.75	P	
5	5.0499	36.06		11.53	10.24	46.30		21.77	60.00	50.00	-13.70	-28.23	P	
6	19.6858	30.44		9.39	10.11	40.55		19.50	60.00	50.00	-19.45	-30.50	P	

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



APPENDIX B: PHOTOGRAPHS OF EUT

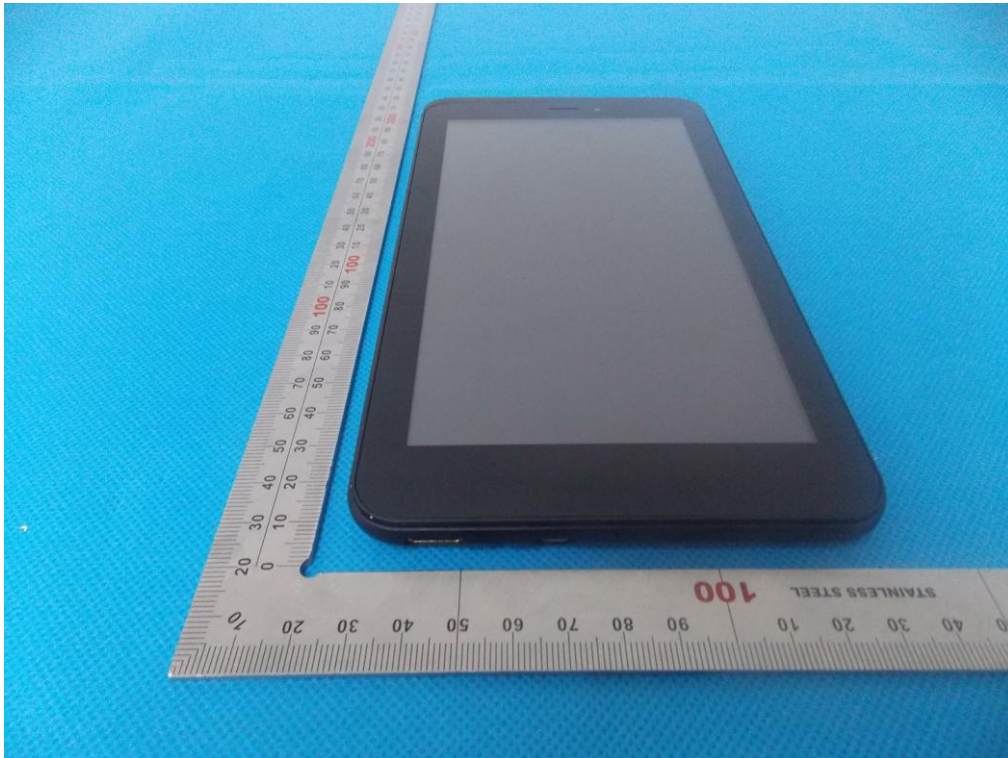
TOTAL VIEW OF EUT



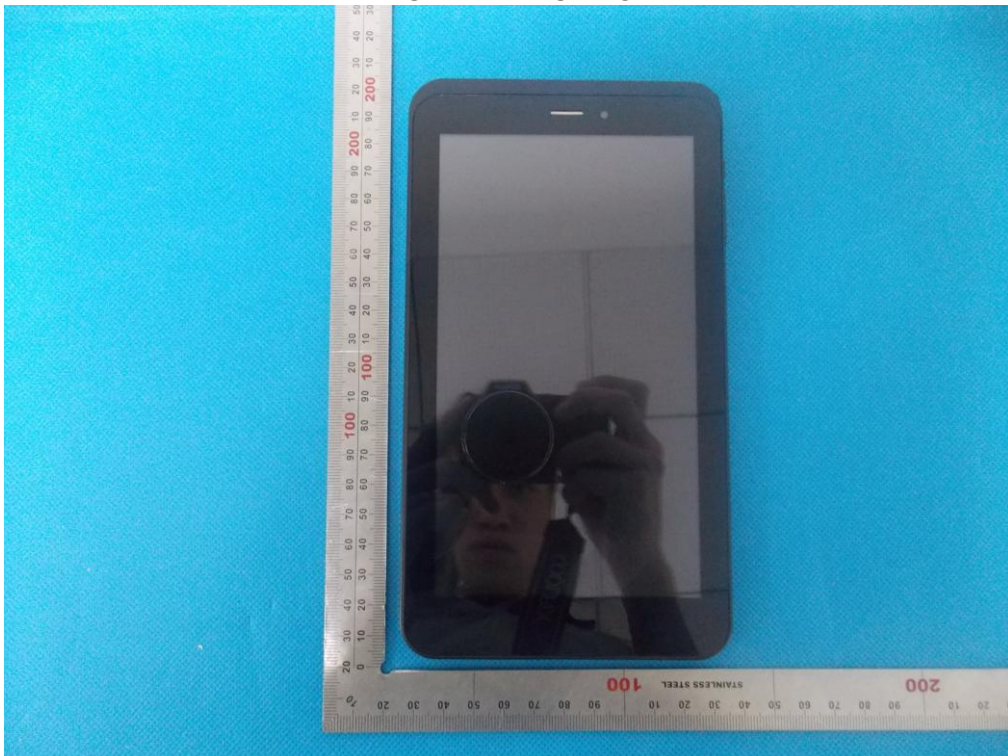
TOP VIEW OF EUT



BOTTOM VIEW OF EUT



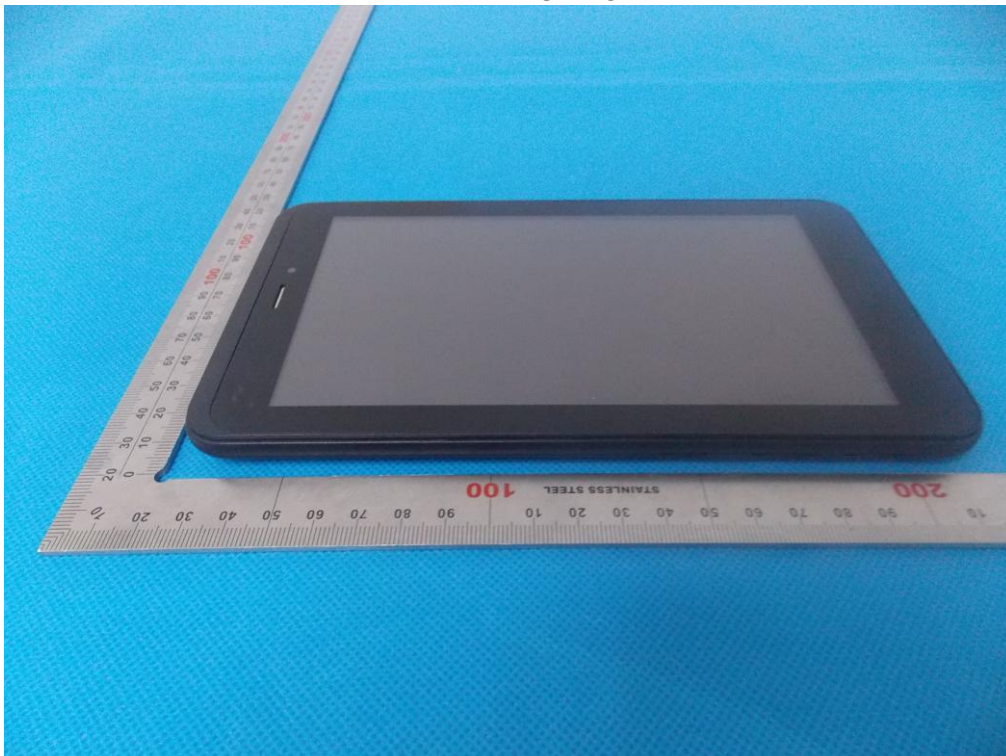
FRONT VIEW OF EUT



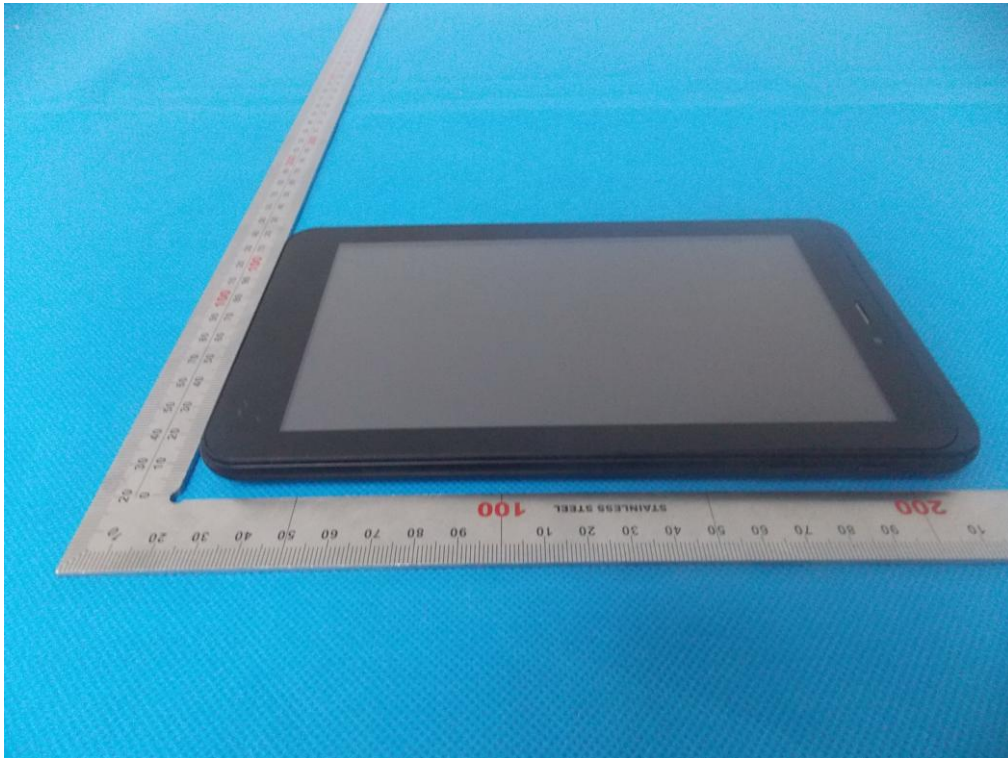
BACK VIEW OF EUT



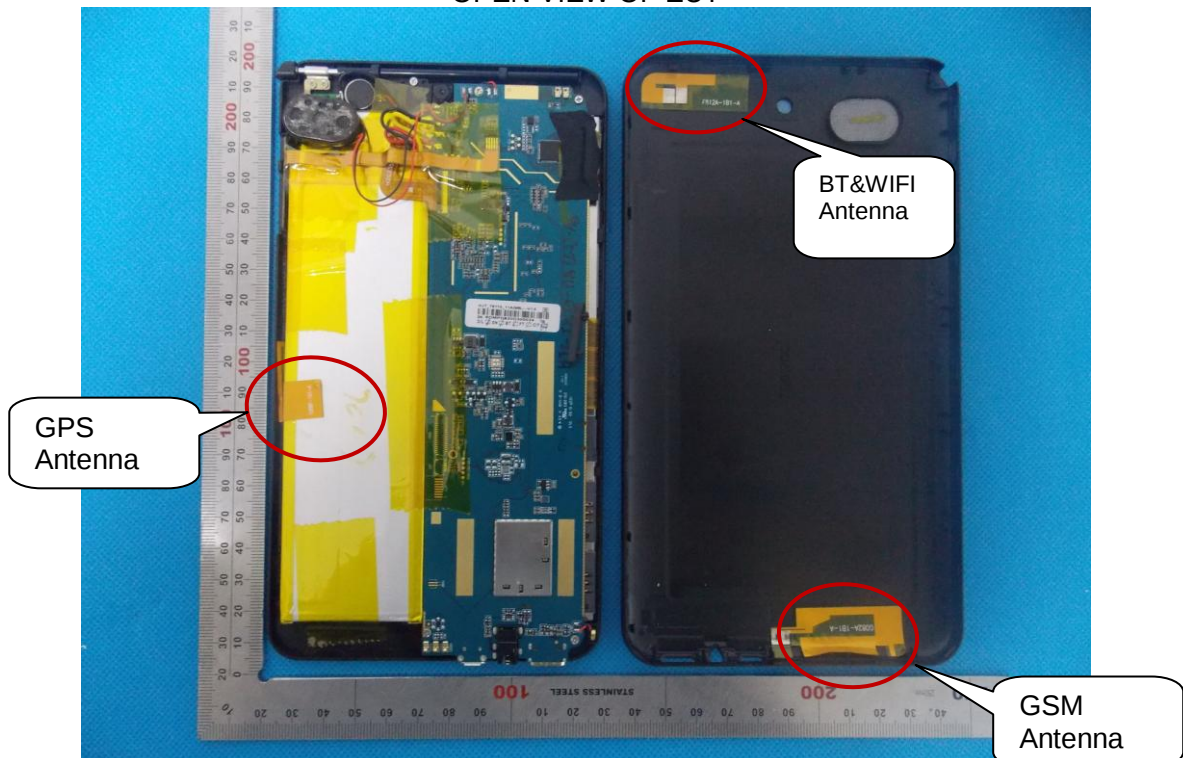
LEFT VIEW OF EUT



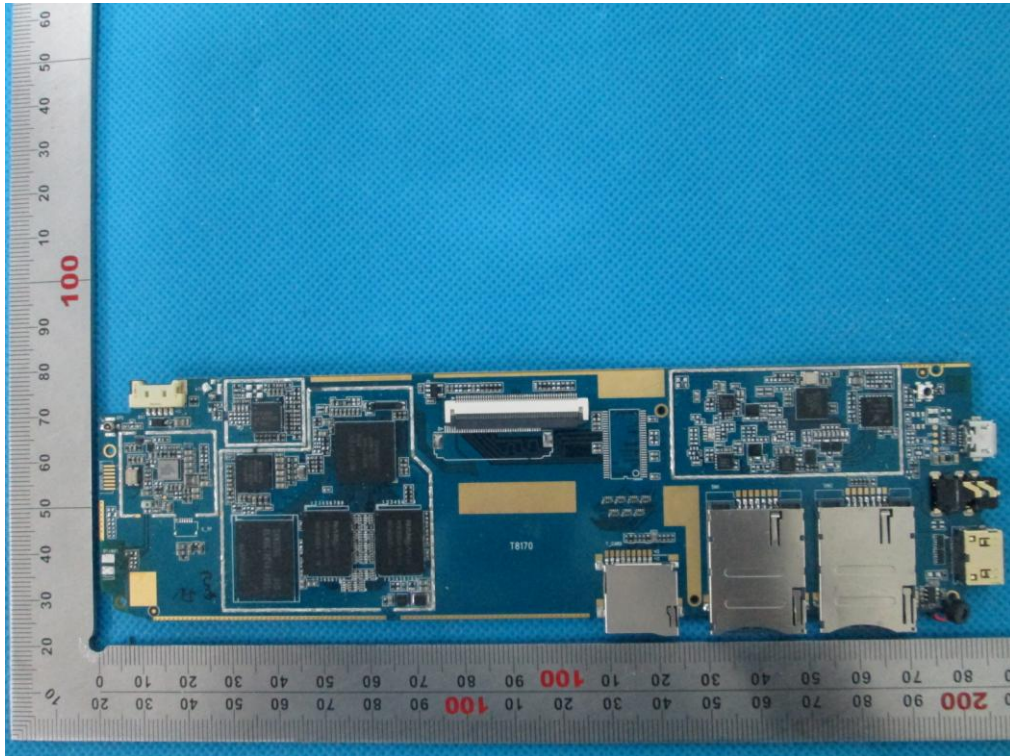
RIGHT VIEW OF EUT



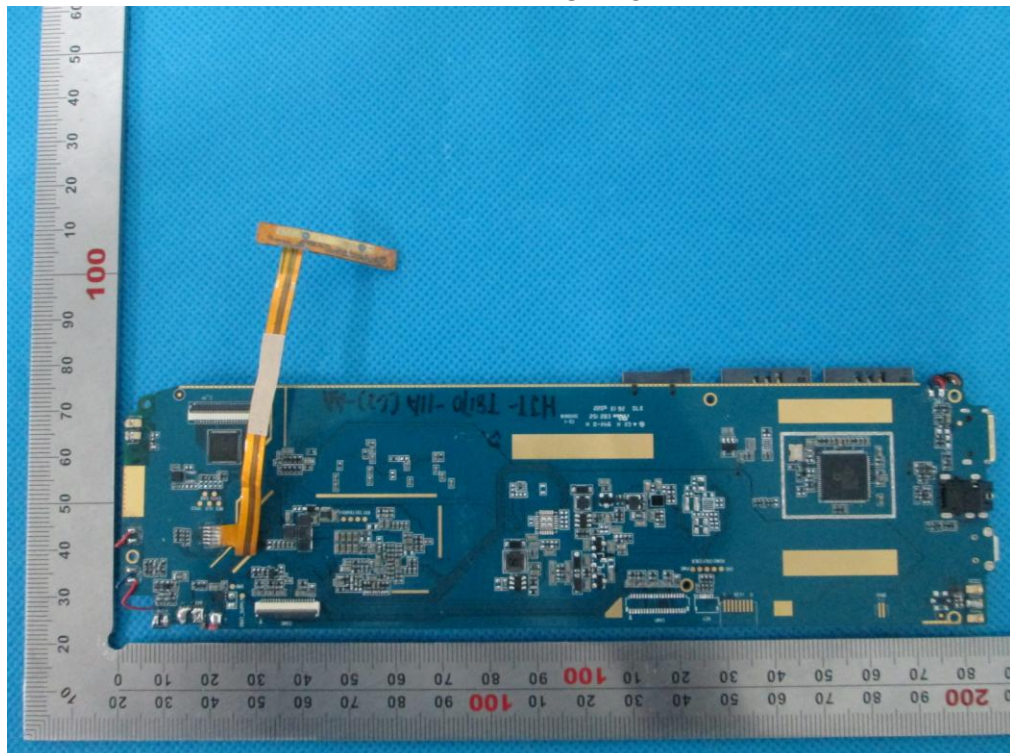
OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



----END OF REPORT----