FCC TEST REPORT

For

Shenzhen Sanemax Technology CO., Limited

Tablet PC

Model No.: E705G

Additional models No.: Please refer to page 37

Prepared for : Shenzhen Sanemax Technology CO., Limited

Address : 5F, Building D, NO.8 East Area, ShangXue Industrial Park,

ShangXue Community, Shenzhen, China

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an

District, Shenzhen, Guangdong, China

Date of receipt of test sample : February 26, 2014

Number of tested samples : 1

Serial number : Prototype

Date of Test : February 26, 2014 - March 11, 2014

Date of Report : March 11, 2014

FCC TEST REPORT

FCC CFR 47 PART 15 C(15.247): 2012

Report Reference No.: LCS140310037F

Date of Issue : March 11, 2014

Testing Laboratory Name.....: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address : 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,

Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure......: Full application of Harmonised standards

Partial application of Harmonised standards \Box

Other standard testing method \Box

Applicant's Name: Shenzhen Sanemax Technology CO., Limited

Address : 5F, Building D, NO.8 East Area, ShangXue Industrial Park,

ShangXue Community, Shenzhen, China

Test Specification

Standard : FCC CFR 47 PART 15 C(15.247): 2012

Test Report Form No.....: LCSEMC-1.0

TRF Originator: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF..... : Dated 2011-03

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Test Item Description.: Tablet PC

Trade Mark:

Model/ Type reference : E705G

Ratings: DC 3.7V by battery

Result: Positive

Compiled by:

Supervised by:

Approved by:

Jacky Li/ File administrators

Fox Zhang/ Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No.: LCS140310037F

March 11, 2014
Date of issue

Type / Model	: E705G
EUT	: Tablet PC
Applicant	: Shenzhen Sanemax Technology CO., Limited
Address	: 5F, Building D, NO.8 East Area, ShangXue Industrial Park,
	ShangXue Community, Shenzhen, China
Telephone	
Fax	
	: Shenzhen Sanemax Technology CO., Limited
Address	: 5F, Building D, NO.8 East Area, ShangXue Industrial Park,
	ShangXue Community, Shenzhen, China
Telephone	: /
Fax	: /
Factory	: Shenzhen Sanemax Technology CO., Limited
Address	. 5F, Building D, NO.8 East Area, ShangXue Industrial Park,
1 Iddi CSS	5F, Building D, NO.8 East Area, ShangXue Industrial Park, ShangXue Community, Shenzhen, China
Telephone	: /
Fax	: /

Test Result	Positive
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The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. GENERAL INFORMATION

1.1 Description of Device (EUT)

EUT Tablet PC

Model No. E705G

Frequency Range 2.402-2.480GHz

Channel Number 79

Channel frequency 2402.00-2480.00MHz (Channel Frequency=2402+1(K-1),

 $K=1, 2, 3 \dots79$

Channel Spacing 1MHz

Modulation Type GFSK(1Mbps)

Bluetooth Version V2.0

Antenna Gain PCB antenna, 1.6dBi(Max.)

Input Voltage : DC 3.7V by battery

1.2 Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
Sanemax	Battery	357090PA		
Sanemax	AC Adapter	QW TB-AC		VOC

1.3 External I/O Cable

I/O Port Description	Quantity	Cable	

1.4 Description of Test Facility

Site Description EMC Lab.

: Accredited by CNAS, June 04, 2010

The Certificate Registration Number. is L4595.

Accredited by FCC, July 14, 2011

The Certificate Registration Number. is 899208.

Accredited by Industry Canada, May. 02, 2011

The Certificate Registration Number. is 9642A-1

Accredited by VCCI, Japan January 30, 2012

The Certificate Registration Number. is C-4260 and R-3804

Accredited by ESMD, April 24, 2012

The Certificate Registration Number. is ARCB0108.

Accredited by UL, June 11, 2012

The Certificate Registration Number. is 100571-492.

Accredited by TUV, November 21, 2012

The Certificate Registration Number. is SCN1081

Accredited by Intertek, December 21, 2012

The Certificate Registration Number. is 2011-RTL-L1-50.

1.5 Statement of The Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

1.6 Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
		9KHz~30MHz	±3.10dB	(1)
	:	30MHz~200MHz	±2.96dB	(1)
Radiation Uncertainty		200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GHz	±3.80dB	(1)
		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty :		150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

^{(1).} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.7 Description Of Test Modes

Bluetooth operates in the unlicensed ISM Band at 2.4GHz. With the introduction of the basic rate of 1 Mb/s is achieved by modulating the RF carrier using GFSK techniques. The following operating modes were applied for the related test items. All test modes were tested, only the result of the worst case was recorded in the report.

were tested, only the result of the worst case was recorded in the report.				
Mode of Operations	Freque	ncy Range	Data Rate	
	(MHz)		(Mbps)	
	2	402	1	
GFSK	2441		1	
		480	1	
F	or Conduct	ed Emission		
Test Mode		Т	TX Mode	
	For Radiate	d Emission		
Test Mode		Т	TX Mode	

Worst-case mode and channel used for 150kHz-30 MHz power line conducted emissions was the mode and channel with the highest output power, that was determined to be TX(1Mbps-Hopping Mode).

Worst-case mode and channel used for 9kHz-1000 MHz radiated emissions was the mode and channel with the highest output power, that was determined to be TX(1Mbps---Low Channel, Mid Channel and High Channel).

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2009, RSS-210, FCC CFR PART 15C 15.207, 15.209, 15.247 and DA 00-705.

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209, 15.247 under the FCC Rules Part 15 Subpart C and RSS-210.

2.3 General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4-2009 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4-2009

3. SYSTEM TEST CONFIGURATION

3.1 Justification

The system was configured for testing in a continuous transmit condition.

3.2 EUT Exercise Software

N/A.

3.3 Special Accessories

N/A.

3.4 Block Diagram/Schematics

Please refer to the related document.

3.5 Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6 Test Setup

Please refer to the test setup photo.

4. ANTENNA PORT MEASUREMENT

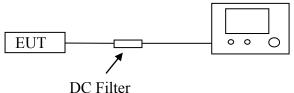
4.1 Peak Power

4.1.1 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Power Sensor	R&S	NRV-Z51	100458	2013-06-18	2014-06-17
2	Power Sensor	R&S	NRV-Z32	10057	2013-06-18	2014-06-17
3	Power Meter	R&S	NRVS	100444	2013-06-18	2014-06-17
4	DC Filter	MPE	23872C	N/A	2013-06-18	2014-06-17

4.1.2 Block Diagram of Test Setup

Power meter



4.1.3 Limit

According to §15.247(a)(1) or A8.4 (2), For frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125mW.

4.1.4 Test Procedure

The transmitter output is connected to the Power Meter.

4.1.5 Test Results

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Limit (mW)	Result
	2402	2.572	1.8080	125	Pass
GFSK	2441	3.041	2.0142	125	Pass
	2480	2.604	1.8214	125	Pass

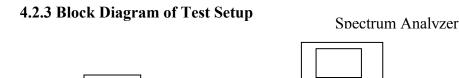
4.2 Frequency Separation And 20 dB Bandwidth

4.2.1 Limit

According to §15.247(c) or A8.1(a), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, 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 in15.209(a).

4.2.2 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	2013-06-16	2014-06-15
2	Signal analyzer	Agilent	E4448A(Ext ernal mixers to 40GHz)		2013-06-16	2014-06-15
3	RF Cable	Hubersuhne	Sucoflex104	FP2RX2	2013-06-18	2014-06-17
4	DC Filter	MPE	23872C	N/A	2013-06-18	2014-06-17



DC Filter

4.2.4 Test Procedure

EUT

Frequency separation test procedure:

- A. Place the EUT on the table and set it in transmitting mode.
- B. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.

0

- C. Set center frequency of Spectrum Analyzer = middle of hopping channel.
- D. Set the Spectrum Analyzer as RBW = 100kHz, VBW = 100kHz, Span = wide enough to capture the peaks of two adjacent channels, Sweep = auto.
- E. Max hold, mark 2 peaks of hopping channel and record the 2 peaks frequency.

20dB bandwidth test procedure:

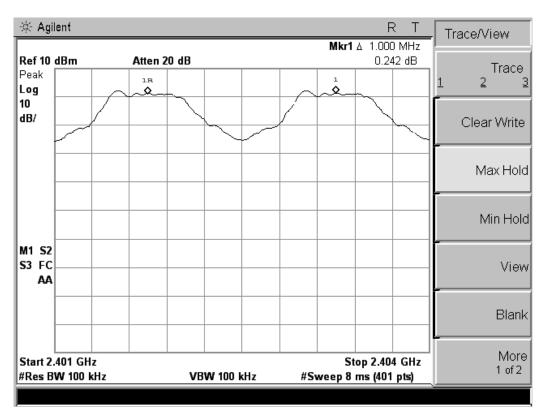
- A. Span = approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel.
- B. RBW $\geq 1\%$ of the 20dB bandwidth, VBW \geq RBW.
- C. Detector function = peak.
- D. Trace = max hold.

4.2.5 Test Results

The Measurement Result With 1Mbps For GFSK Modulation							
Channel 20dB Bandwidth (KHz)		20dB Bandwidth Separation		Result			
Low	832.328		>=25 KHz or 2/3 20 dB BW	Pass			
Middle	833.602	1.000	>=25 KHz or 2/3 20 dB BW	Pass			
High	833.883		>=25 KHz or 2/3 20 dB BW	Pass			

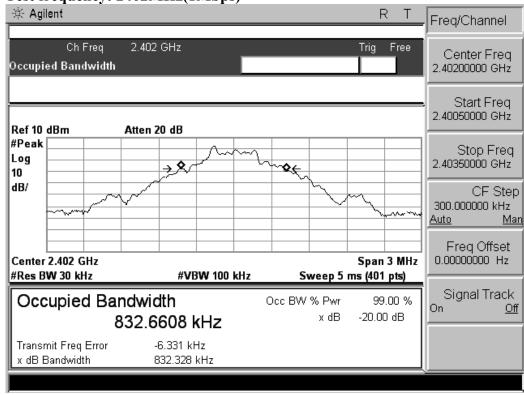
The test data refer to the following page.

Test Plot Of Frequency Separation (1Mbps)

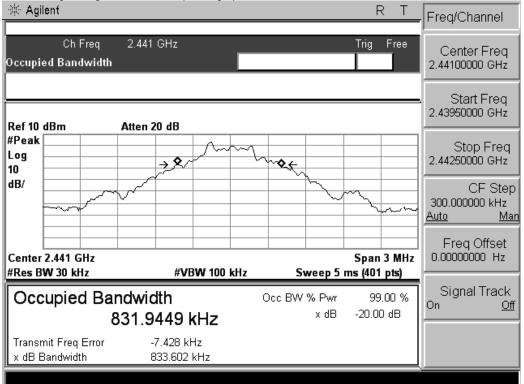


Measurement of 20dB Bandwidth

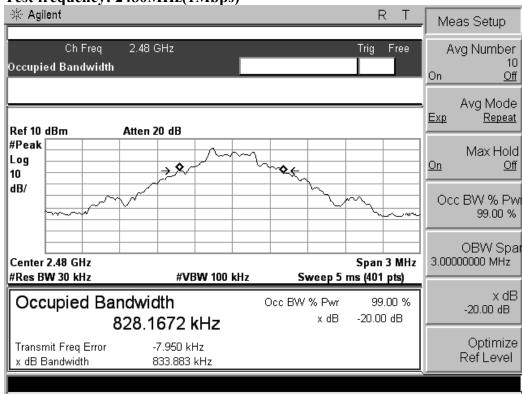
Test frequency: 2402MHz(1Mbps)







Test frequency: 2480MHz(1Mbps)



4.3 Number Of Hopping Frequency

4.3.1 Limit

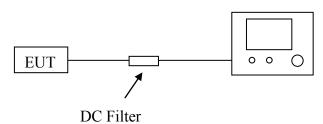
According to § 15.247(a)(1)(ii) or A8.1 (d), Frequency hopping systems operating in the band 2400-2483.5 MHz shall use at least 15 hopping channels.

4.3.2 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	2013-06-16	2014-06-15
2	Signal analyzer	Agilent	E4448A(Ext ernal mixers to 40GHz)		2013-06-16	2014-06-15
3	RF Cable	Hubersuhne	Sucoflex104	FP2RX2	2013-06-18	2014-06-17
4	DC Filter	MPE	23872C	N/A	2013-06-18	2014-06-17

4.3.3 Block Diagram of Test Setup

Spectrum Analyzer



4.3.4 Test Procedure

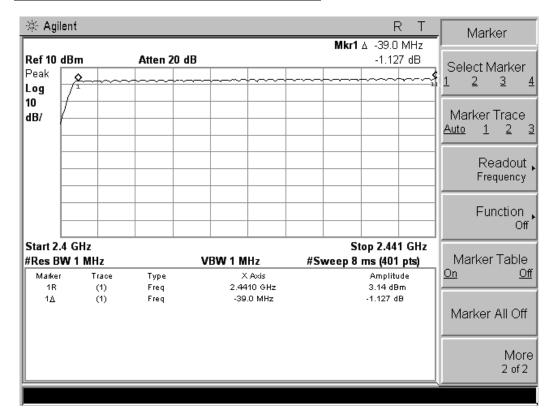
- A. Place the EUT on the table and set it in transmitting mode.
- B. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- C. Set Spectrum Analyzer Start=2400MHz, Stop = 2483.5MHz, Sweep = auto.
- D. Set the Spectrum Analyzer as RBW, VBW=1MHz.
- E. Max hold, view and count how many channel in the band.

4.3.5 Test Results

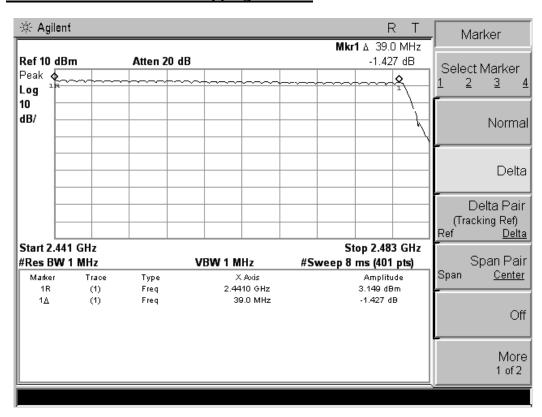
The Measurement Result With The Worst Case of 1Mbps For GFSK Modulation							
Total No. of	Measurement Result (No. of Ch)	Limit (MHz)	Result				
Hopping Channel	79	≥15	Pass				

The test data refer to the following page.

Test Plot-1 For Number of Hopping Channel



Test Plot-2 For Number of Hopping Channel



4.4 Time Of Occupancy (Dwell Time)

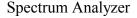
4.4.1 Limit

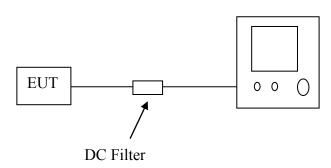
According to § 15.247(a)(1)(iii) or A8.1 (d), Frequency hopping systems operating in the 2400MHz- 2483.5 MHz bands. The average time of occupancy on any channels shall not greater than 0.4 s within a period 0.4 s multiplied by the number of hopping channels employed.

4.4.2 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	2013-06-16	2014-06-15
2	Signal analyzer	Agilent	E4448A(Ext ernal mixers to 40GHz)		2013-06-16	2014-06-15
3	RF Cable	Hubersuhne	Sucoflex104	FP2RX2	2013-06-18	2014-06-17
4	DC Filter	MPE	23872C	N/A	2013-06-18	2014-06-17

4.4.3 Block Diagram of Test Setup





4.4.4 Test Procedure

- A. Place the EUT on the table and set it in transmitting mode.
- B. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Spectrum Analyzer.
- C. Set center frequency of Spectrum Analyzer = operating frequency.
- D. Set the Spectrum Analyzer as RBW, VBW=1MHz, Span = 0Hz, Sweep = auto.
- E. Repeat above procedures until all frequency measured were complete.

4.5.5 Test Results

The Measurement Result With The Worst Case of GFSK									
Channel	Time of Pulse for DH5 (ms)	Period Time (s)	Sweep Time (ms)	Limit (ms)					
Low	2.86	31.6	305.1	400					
Middle	2.88	31.6	307.2	400					
High	2.88	31.6	307.2	400					

Low Channel

2.86*(1600/6)/79*31.6=305.1ms

Middle Channel

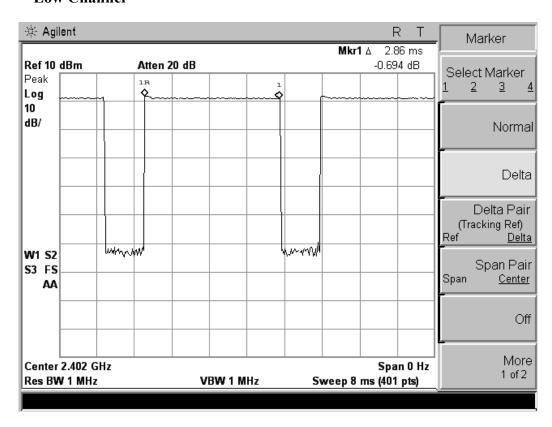
2.88*(1600/6)/79*31.6=307.2ms

High Channel

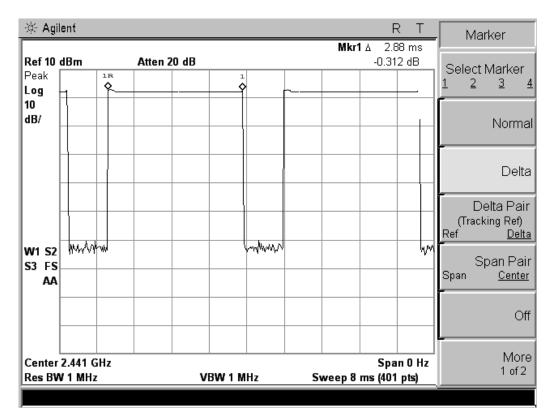
2.88*(1600/6)/79*31.6=307.2ms

The test data refer to the following:

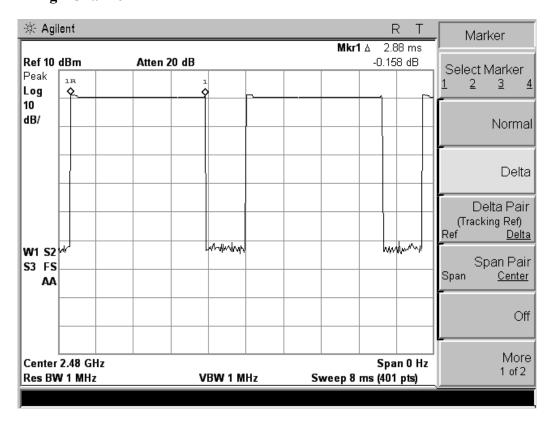
Low Channel



Middle Channel



High Channel



4.5 Conducted Spurious Emissions and Band Edges Test

4.5.1 Limit

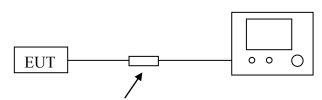
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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 Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

4.5.2 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	2013-06-16	2014-06-15
2	Signal analyzer	Agilent	E4448A(Ext ernal mixers to 40GHz)		2013-06-16	2014-06-15
3	RF Cable	Hubersuhne	Sucoflex104	FP2RX2	2013-06-18	2014-06-17
4	DC Filter	MPE	23872C	N/A	2013-06-18	2014-06-17

4.5.3 Block Diagram of Test Setup

Spectrum Analyzer



4.5.4 Test Proced DC Filter

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 KHz. The video bandwidth is set to 100 KHz.

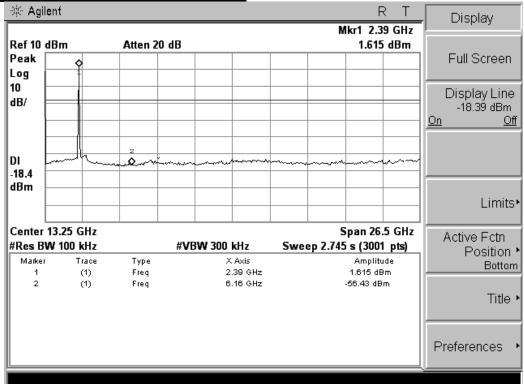
Measurements are made over the 9kHz to 26.5GHz range with the transmitter set to the lowest, middle, and highest channels

4.5.5 Test Results of Conducted Spurious Emissions

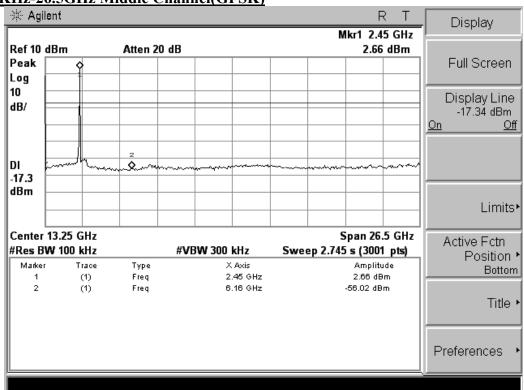
No non-compliance noted. Only record the worst test result (TX-GFSK) in this report. The test data refer to the following page.

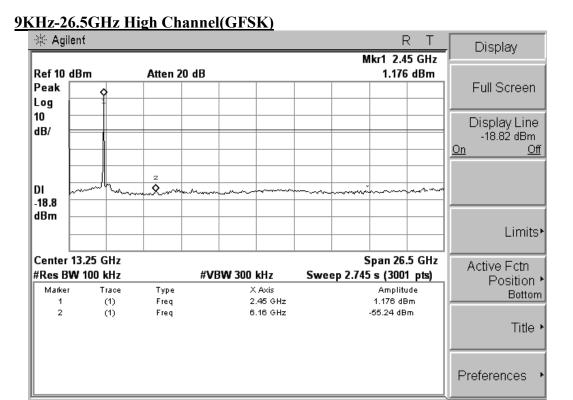
Test Plot





9KHz-26.5GHz Middle Channel(GFSK)



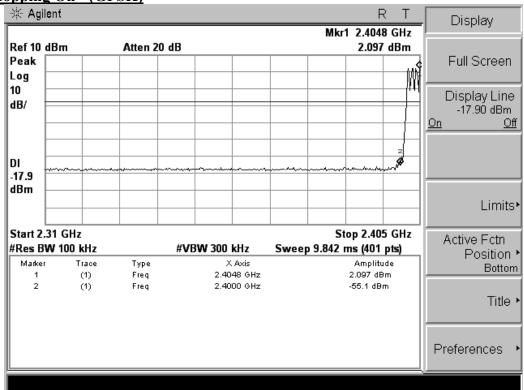


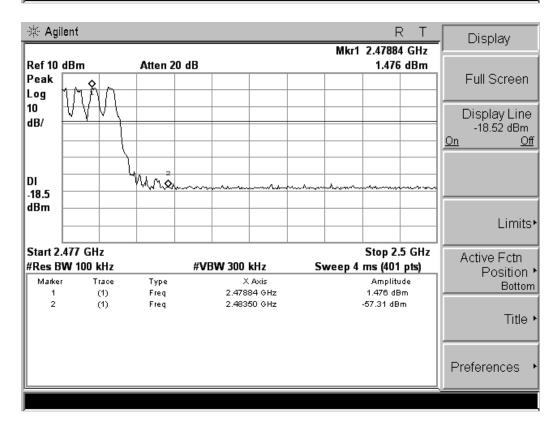
4.5.5 Test Results of Band Edges Test

No non-compliance noted. Only record the worst test result in this report. The test data refer to the following page.

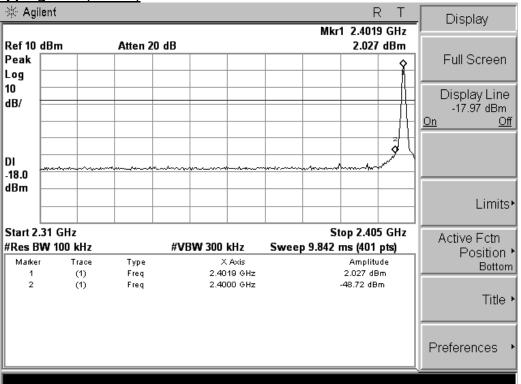
Test Plot

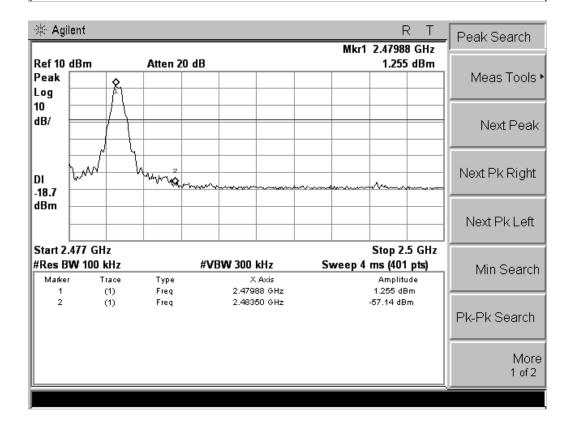
Hopping On - (GFSK)





Hopping Off - (GFSK)



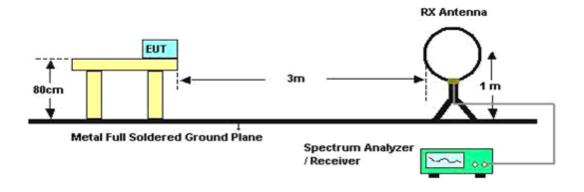


5. RADIATED MEASUREMENT

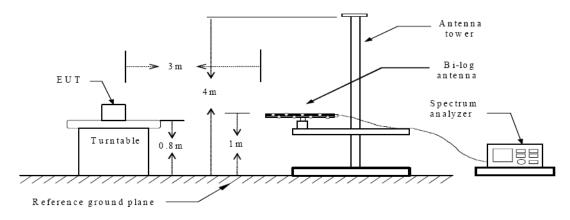
5.1 Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03СН03-НҮ	2013-06-18	2014-06-17
2	Amplifier	SCHAFFNER	COA9231A	18667	2013-06-18	2014-06-17
3	Amplifier	Agilent	8449B	3008A02120	2013-06-16	2014-06-15
4	Amplifier	MITEQ	AMF-6F-260 400	9121372	2013-06-16	2014-06-15
5	Spectrum Analyzer	Agilent	E4407B	MY41440292	2013-06-16	2014-06-15
6	Signal analyzer	Agilent	E4448A(Exte rnal mixers to 40GHz)	US44300469	2013-06-16	2014-06-15
7	Loop Antenna	R&S	HFH2-Z2	860004/001	2013-06-18	2014-06-17
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2013-06-10	2014-06-09
9	Horn Antenna	EMCO	3115	6741	2013-06-10	2014-06-09
10	Horn Antenna	SCHWARZBECK	BBHA9170	BBHA91701 54	2013-06-10	2014-06-09
11	RF Cable-R03m	Jye Bao	RG142	CB021	2013-06-18	2014-06-17
12	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03СН03-НҮ	2013-06-18	2014-06-17

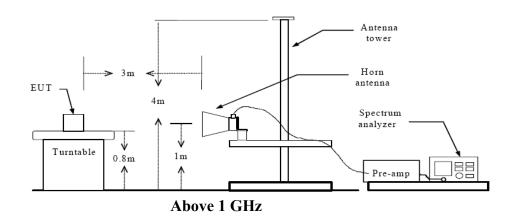
5.2 Block Diagram of Test Setup



Below 30MHz



Below 1 GHz



5.3 Radiated Emission Limit

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(\2\)
13.36-13.41			
\1\ II(1 F.1	this marketed hand about he of 40	00 0 510 MII	_

^{\1\} Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

Part 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions

^{\2\} Above 38.6

appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector.

Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

Part 15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength (microvolts/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

5.4 Instruments Setting

The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz 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 100kHz for QP

5.5 Test Procedures

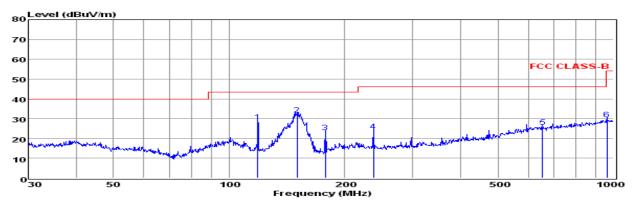
- 1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting 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 value.
- 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.

5.6 Results for Radiated Emissions

PASS.

Only record the worst test result in this report. The test data please refer to following page:

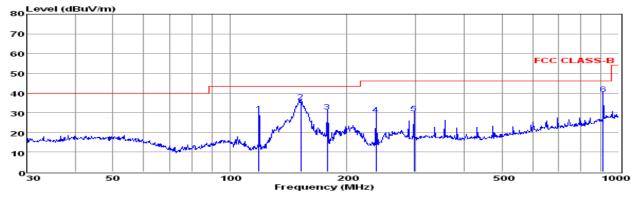
Below 1GHz



24°C/56% Env./Ins: Tablet PC M/N:E705G DC 3.7V BT-L Power Rating: Test Mode: Operator: JACKY Memo: pol: VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ	
1	118.60	17.10	0.64	10.73	28.47	43.50	-15.03	QP
2	150.01	23.13	0.86	8.26	32.25	43.50	-11.25	QP
3	178.13	12.89	0.89	9.55	23.33	43.50	-20.17	QP
4	237.48	10.97	0.96	11.98	23.91	46.00	-22.09	QP
5	654.23	5.57	1.69	18.65	25.91	46.00	-20.09	QP
6	962.16	6.16	2.01	21.49	29.66	54.00	-24.34	QP

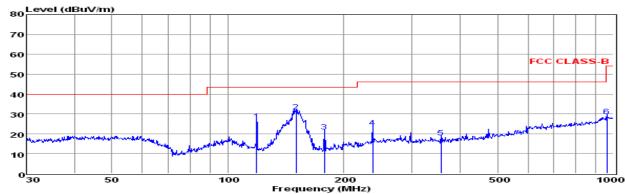
- Note: 1. All readings are Quasi-peak values. 2. Measured= Reading + Antenna Factor + Cable Loss 3. The emission that ate 20db blow the offficial limit are not reported



24°C/56% Env./Ins: EUT: Tablet PC M/N: E705G DC 3.7V BT-L Power Rating: Test Mode: Operator: JACKY Memo: HORIZONTAL pol:

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ	
1	118.60	18.31	0.64	10.73	29.68	43.50	-13.82	QP
2	152.13	26.49	0.73	8.35	35.57	43.50	-7.93	QP
3	178.13	20.25	0.89	9.55	30.69	43.50	-12.81	QP
4	237.48	16.10	0.96	11.98	29.04	46.00	-16.96	QP
5	297.22	15.49	1.12	13.01	29.62	46.00	-16.38	QP
6	912.86	16.55	1.86	21.17	39.58	46.00	-6.42	QP

- Note: 1. All readings are Quasi-peak values. 2. Measured= Reading + Antenna Factor + Cable Loss 3. The emission that ate 20db blow the offficial limit are not reported



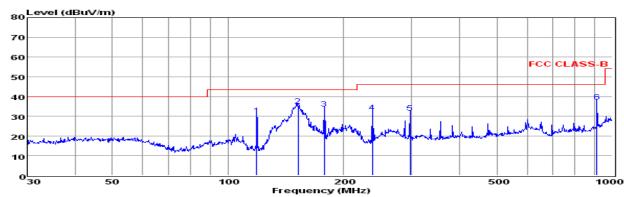
24°C/56% Tablet PC Env./Ins: EUT: M/N: E705G Power Rating: Test Mode: Operator: DC 3.7V вт-м JACKY Memo:

pol:

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ	
1	118.60	15.17	0.64	10.73	26.54	43.50	-16.96	QP
2	150.01	22.00	0.86	8.26	31.12	43.50	-12.38	QP
3	178.13	10.61	0.89	9.55	21.05	43.50	-22.45	QP
4	237.48	10.35	0.96	11.98	23.29	46.00	-22.71	QP
5	356.68	2.48	1.18	14.38	18.04	46.00	-27.96	QP
6	962.16	5.40	2.01	21.49	28.90	54.00	-25.10	QP

VERTICAL

Note: 1. All readings are Quasi-peak values. 2. Measured= Reading + Antenna Factor + Cable Loss 3. The emission that ate 20db blow the offficial limit are not reported



Env./Ins: 24°C/56% Tablet PC EUT: E705G M/N: DC 3.7V BT-M Power Rating: Test Mode: Operator: JACKY Memo: HORIZONTAL pol:

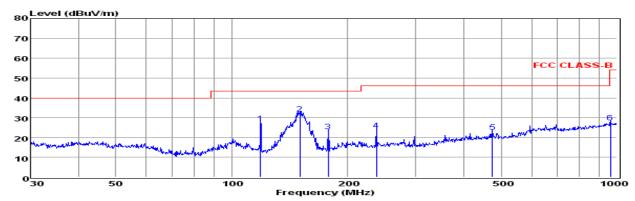
	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark	
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ		
1	118.60	19.25	0.64	10.73	30.62	43.50	-12.88	QP	
2	152.13	26.41	0.73	8.35	35.49	43.50	-8.01	QP	
3	178.13	23.33	0.89	9.55	33.77	43.50	-9.73	QP	
4	237.48	19.06	0.96	11.98	32.00	46.00	-14.00	QP	
5	297.22	17.62	1.12	13.01	31.75	46.00	-14.25	QP	
6	912.86	14.48	1.86	21.17	37.51	46.00	-8.49	QP	

- Note: 1. All readings are Quasi-peak values. 2. Measured= Reading + Antenna Factor + Cable Loss 3. The emission that ate 20db blow the offficial limit are not reported

Limit

Over

Remark



Env./Ins: EUT: M/N: Power Rating: Test Mode: Operator: Memo:

pol:

1

2

3

4

6

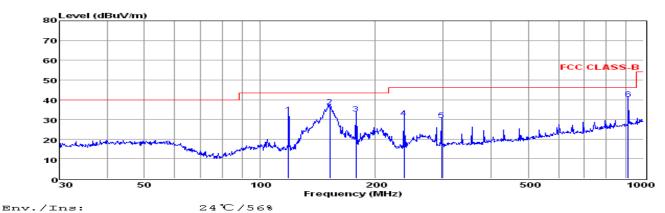
24°C/56% Tablet PC E705G DC 3.7V вт-н JACKY

VERTICAL

Freq	Reading	CabLos	Antfac	Measured
MHz	dBuV	dВ	dB/m	dBuV/m

3uV/m dBuV/m dВ 118.60 27.45 43.50 16.08 0.64 10.73 -16.05 OP 8.26 -11.36 150.01 23.02 0.86 32.14 43.50 QP 178.13 12.88 0.89 9.55 23.32 43.50 -20.18 QP 23.67 22.99 0.96 10.73 5.70 11.98 15.96 -22.33237.48 46.00 OP 475.50 1.33 -23.01 46.00 QР 962.16 4.19 2.01 21.49 27.69 54.00 -26.31 QP

- Note: 1. All readings are Quasi-peak values. 2. Measured= Reading + Antenna Factor + Cable Loss 3. The emission that ate 20db blow the offficial limit are not reported



EUT: M/N: Power Rating: Test Mode: Operator: Memo:

pol:

Tablet PC E705G DC 3.7V BT-L JACKY

VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ	
1	118.60	21.35	0.64	10.73	32.72	43.50	-10.78	QP
2	152.13	27.48	0.73	8.35	36.56	43.50	-6.94	QP
3	178.13	22.47	0.89	9.55	32.91	43.50	-10.59	QP
4	237.48	18.11	0.96	11.98	31.05	46.00	-14.95	QP
5	297.22	15.68	1.12	13.01	29.81	46.00	-16.19	QP
6	912.86	17.54	1.86	21.17	40.57	46.00	-5.43	QP

- Note: 1. All readings are Quasi-peak values. 2. Measured= Reading + Antenna Factor + Cable Loss 3. The emission that ate 20db blow the offficial limit are not reported

Above 1GHz

The worst test result for GFSK, Tx-Low Channel:

Freq. MHz	Reading dBuv	Ant. Fac dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4804.00	57.68	33.06	35.04	3.94	59.64	74	-14.36	Peak	Horizontal
4804.00	44.21	33.06	35.04	3.94	46.17	54	-7.83	Average	Horizontal
4804.00	55.56	33.06	35.04	3.94	57.52	74	-16.48	Peak	Vertical
4804.00	42.39	33.06	35.04	3.94	44.35	54	-9.65	Average	Vertical

The worst test result for GFSK, Tx-Middle Channel:

Freq. MHz	Reading Dbuv	Ant. Fac dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4882.00	57.81	33.16	35.15	3.96	59.78	74	-14.22	Peak	Horizontal
4882.00	44.35	33.16	35.15	3.96	46.32	54	-7.68	Average	Horizontal
4882.00	55.67	33.16	35.15	3.96	57.64	74	-16.36	Peak	Vertical
4882.00	42.92	33.16	35.15	3.96	44.89	54	-9.11	Average	Vertical

The worst test result for GFSK, Tx-High Channel:

Freq. MHz	Reading DBuv	Ant. Fac dB/m	Pre. Fac dB	Cab. Los dB	Measured dBuv/m	Limit dBuv/m	Margin dB	Remark	Pol.
4960.00	56.86	33.26	35.14	3.98	58.96	74	-15.04	Peak	Horizontal
4960.00	44.02	33.26	35.14	3.98	46.12	54	-7.88	Average	Horizontal
4960.00	55.15	33.26	35.14	3.98	57.25	74	-16.75	Peak	Vertical
4960.00	42.53	33.26	35.14	3.98	44.63	54	-9.37	Average	Vertical

Notes:

- 1. Measuring frequencies from 9k~10th harmonic (ex. 26GHz), No emission found between lowest internal used/generated frequency to 30 MHz.
- 2. Radiated emissions measured in frequency range from 9k~10th harmonic (ex. 26GHz) were made with an instrument using Peak detector mode.
- 3. 18~25GHz at least have 20dB margin. No recording in the test report.

5.7 Results for Band edge Testing (Radiated)

Only record the worst test case (Tx, GFSK, Non-hopping) as following:

Tx-2402, GFSK, Non-hopping

Freq. MHz	Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measure d dBuV/m	Limit dBuV/ m	Margin dB	Remark	Pol.
2390.00	49.85	32.89	35.16	3.51	51.09	74	-22.91	Peak	Horizontal
2390.00	37.18	32.89	35.16	3.51	38.42	54	-15.58	Averag e	Horizontal
2400.00	53.06	32.92	35.16	3.54	54.36	74	-19.64	Peak	Horizontal
2400.00	39.85	32.92	35.16	3.54	41.15	54	-12.85	Averag e	Horizontal
2390.00	48.99	32.89	35.16	3.51	50.23	74	-23.77	Peak	Vertical
2390.00	36.77	32.89	35.16	3.51	38.01	54	-15.99	Averag e	Vertical
2400.00	52.18	32.92	35.16	3.54	53.48	74	-20.52	Peak	Vertical
2400.00	37.97	32.92	35.16	3.54	39.27	54	-14.73	Averag e	Vertical

Tx-2480, GFSK, Non-hopping

		, ,	, r terr mep	1 0					
Freq. MHz	Readin g Level dBuV	Ant. Fac. dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/ m	Margin dB	Remark	Pol.
2483.50	52.16	33.06	35.18	3.60	53.64	74	-20.36	Peak	Horizontal
2483.50	39.50	33.06	35.18	3.60	40.98	54	-13.02	Averag e	Horizontal
2483.50	50.39	33.06	35.18	3.60	51.87	74	-22.13	Peak	Vertical
2483.50	39.24	33.06	35.18	3.60	40.72	54	-13.28	Averag e	Vertical

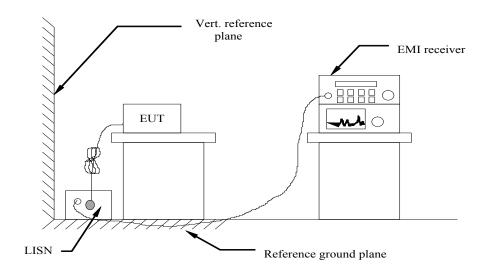
6. POWER LINE CONDUCTED EMISSIONS

6.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency		Limits (dBµV)
Range (MHz)	Quasi-pea k	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

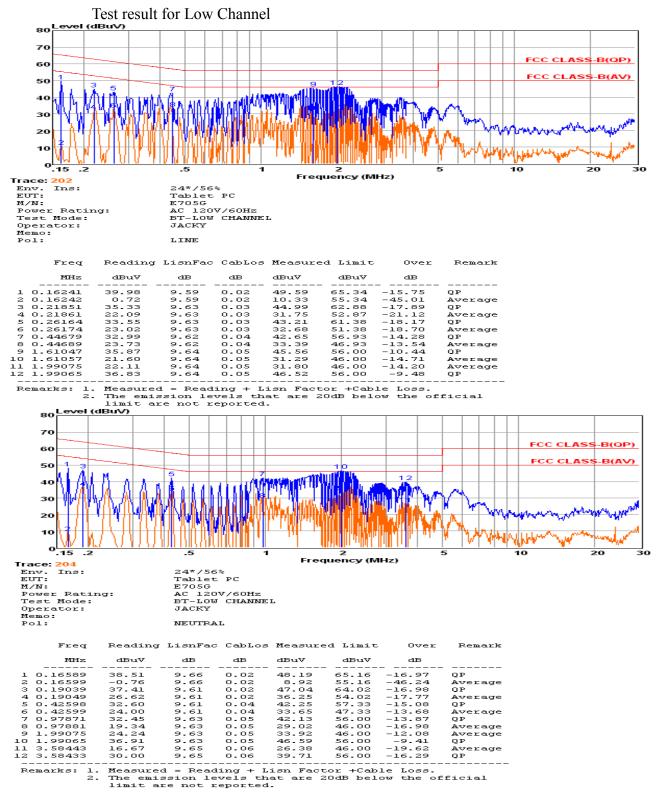
6.2 Block Diagram of Test Setup



6.3 Test Results

PASS.

The test data please refer to following page.



***Note: Pre-scan all mode and recorded the worst case results in this report (Low Channel)).

7. ANTENNA REQUIREMENT

7.1 Standard Applicable

According to antenna requirement of §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 re-placed 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.

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

7.2 Antenna Connected Construction

7.2.1. Standard Applicable

According to § 15.203 & RSS-Gen, 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.

7.2.2. Antenna Connector Construction

There is a integral antenna and the antenna is connected to PCB board and no consideration of replacement. Please see EUT photo for details. The directional gains of antenna used for transmitting is 1.6dBi

7.2.3. Results: Compliance.

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8. MANUFACTURER/ APPROVAL HOLDER DECLARATION

The following series model(s):

C4305	C4306	C702	CE506
CE707	CF506	C705	CE706
C4302	CF707		

Belong to the tested device:

Product description : Tablet PC

Model name : E705G

Remark: PCB board, structure and internal of these model(s) are the same, So no additional models were tested.