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FCC Test Report

Report No.: AGC00901130907FE03

FCC ID : 2AAQHQ80A13-2M

APPLICATION PURPOSE : Original Equipment

PRODUCT DESIGNATION: Tablet PC

BRAND NAME : AOC/AAPPAA /YARVIK/MULTILASER

MODEL NAME : See page 5.

CLIENT : AAPPAA TECHNOLOGY(HK) LIMITED

DATE OF ISSUE : Sep.26, 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.26, 2013	Valid	Original Report

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1. VERIFICATION OF CONFORMITY

Applicant	AAPPAA TECHNOLOGY(HK) LIMITED
Address 4F, BUILDING 5 SANWEIHUAFENG 1ST TECH PARK, XIXIANG SHENZHEN	
Manufacturer	AAPPAA TECHNOLOGY(HK) LIMITED
Address 4F, BUILDING 5 SANWEIHUAFENG 1ST TECH PARK, XIXIAN SHENZHEN	
Product Designation	Tablet PC
Brand Name	AOC/AAPPAA /YARVIK/MULTILASER
Test Model	Q80A13-2M
Series Model	Q80A13-2S/Q80A13-2N/Q80A13-2P/Q80A13-2B/ Q80A13-2R/Q80A13-2G/D80A14GA-2C/D80A14GA-2N/D80A14GA-2W/ Q80A15GA-2C/Q80A15GT-2C/Q80A15GA-2M/Q80A15GT-2M/ Q80A15GA-2N/ MID-806/MID-805/MID-808
Difference description	All the same except for the color and the capacity of memory.
Date of test	Sep.16~Sep.25, 2013
Deviation	None
Condition of Test Sample	Normal
Report Template	AGCRT-US-BR/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 radiated emission limits of FCC Rules Part 15.247.

Wall Huang Sep.26, 2013

Checked By

Kidd Yang Sep.26, 2013

Authorized By

Solger Zhang Sep.26, 2013

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is "Tablet PC" designed as a "Communication Device". 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

7 · · · · · · · · · · · · · · · · · · ·			
Operation Frequency	2.402 GHz to 2.480GHz		
RF Output Power	5.35dBm(Max)		
Bluetooth Version	V 3.0		
Modulation	GFSK, π /4-DQPSK, 8DPSK		
Number of channels	79		
Hardware Version	N/A		
Software Version N/A			
Antenna Designation	Integral antenna		
Antenna Gain 2.0dBi			
Power Supply DC3.7V by Battery			
Note: BT can be operated when charging.			

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency
	0	2402MHZ
	1	2403MHZ
	:	:
	38	2440 MHZ
2400~2483.5MHZ	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

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2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHZ,In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection(e.g. single of multislot packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.

2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE

Example of a 79 hopping sequence in data mode: 40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67 56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59 72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75 09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06 01, 51, 03, 55, 05, 04

2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

- 1. LAP/UAP of the master of the connection.
- 2. Internal master clock

The LAP(lower address part) are the 24 LSB's of the 48 BD_ADDRESS. The BD_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP(upper address part) are the 24MSB's of the 48BD ADDRESS

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For ehavior zation with other units only offset are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5us. The clock has a cycle of about one day(23h30). In most case it is implemented as 28 bit counter. For the deriving of the hopping sequence the entire. LAP(24 bits), 4LSB's (4bits) (Input 1) and the 27MSB's of the clock (Input 2) are used. With this input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate te Sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following ehavior:

The first connection between the two devices is established, a hopping sequence was generated. For Transmitting the wanted data the complete hopping sequence was not used. The connection ended. The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmission is longer(and it Cannot be shorter) than the minimum resolution of the clock(312.5us). The hopping sequence will always Differ from the first one.

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2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AAQHQ80A13-2M** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.4 (2003). Radiated testing was performed at an antenna to EUT distance 3 meters.

2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

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3. MEASUREMENT UNCERTAINTY

Conducted measurement: +/- 2.75dB Radiated measurement: +/- 3.2dB

4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION	WORST
1	Low channel TX (GFSK)	
2	Middle channel TX (GFSK)	
3	High channel TX (GFSK)	
4	Low channel TX (π /4-DQPSK)	
5	Middle channel TX (π /4-DQPSK)	
6	High channel TX (π /4-DQPSK)	
7	Low channel TX (8DPSK)	
8	Middle channel TX (8DPSK)	
9	High channel TX (8DPSK)	
10	Normal Hopping + Charging	
Noto:	-	

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 other cases.

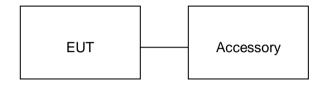
^{2.} For Radiated Emission, 3axis were chosen for testing for each applicable mode.

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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	Tablet PC	AOC/AAPPAA /YARVIK/MULTILASER	Q80A13-2M	EUT
2	Battery	N/A	N/A	Accessory
3	Adapter	N/A	SK02G-0500200V	Accessory

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.247	Peak Output Power	Compliant
§15.247	20 dB Bandwidth	Compliant
§15.247	Spurious Emission	Compliant
§15.209	Radiated Emission	Compliant
§15.247	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.247	Number of Hopping Frequency	Compliant
§15.247	Time of Occupancy	Compliant
§15.247	Frequency Separation	Compliant

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6. TEST FACILITY

Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District, Shenzhen, Guangdong, China
Description	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2003.

ALL TEST EQUIPMENT LIST

Description	Manufacturer	Model	S/N	Cal. Date	Cal. Due
Power Probe	R&S	NRP-Z23	100323	07/17/2013	07/16/2014
RF attenuator	N/A	RFA20db	68	N/A	N/A
Spectrum Analyzer	Agilent	E4440A	US41421290	07/17/2013	07/16/2014
Amplifier	EM	EM30180	0607030	02/28/2013	02/27/2014
Horn Antenna	EM	EM-AH-10180	67	04/20/2013	04/19/2014
Horn Antenna	A.H. Systems Inc.	SAS-574		07/17/2013	07/16/2014
EMI Test Receiver	Rohde & Schwarz	ESCI	100694	07/17/2013	07/16/2014
Bilogical Antenna	A.H. Systems Inc.	SAS-521-4	26	06/07/2013	06/06/2014
LISN	R&S	ESH3-Z5	8389791009	07/17/2013	07/16/2014
Loop Antenna	Daze	ZN30900N	SEL0097	07/17/2013	07/16/2014
Isolation Transformer	LETEAC	LTBK		07/17/2013	07/16/2014

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7. PEAK OUTPUT POWER

7.1. 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. RBW > the 20 dB bandwidth of the emission being measured, VBW ≥ RBW.
- 5. Record the maximum power from the Spectrum Analyzer.

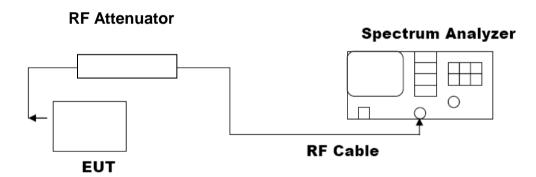
For average power test:

- 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 125mW (21dBm).

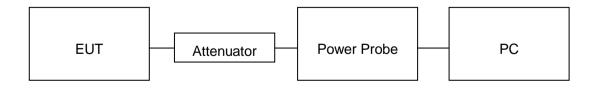
Note: The EUT was tested according to DA000705 for compliance to FCC 47CFR 15.247 requirements.

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

PEAK POWER TEST SETUP



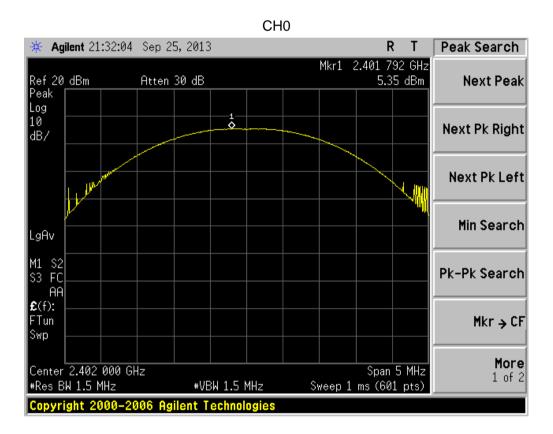
AVERAGE POWER SETUP



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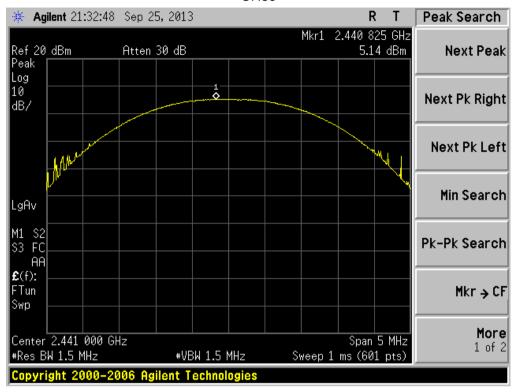
7.3. LIMITS AND MEASUREMENT RESULT

	PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION						
Frequency (GHz)	Pass or Fail						
2.402	3.46	5.35	21	Pass			
2.441	3.25	5.14	21	Pass			
2.480	2.88	4.73	21	Pass			

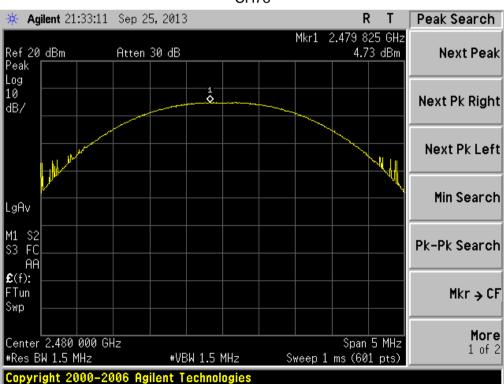


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CH39



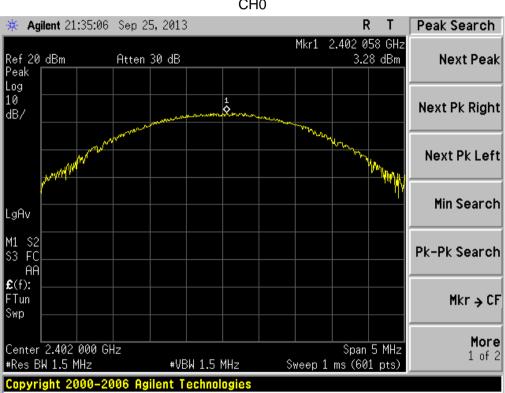
CH78



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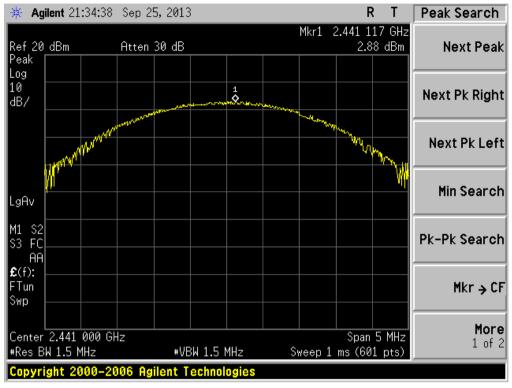
PEAK OUTPUT POWER MEASUREMENT RESULT FOR Π /4-DQPSK MODULATION **Applicable Limits** Frequency Average Power **Peak Power** Pass or Fail (dBm) (dBm) (GHz) (dBm) 1.41 3.28 2.402 21 **Pass** 21 2.441 0.98 2.88 Pass 21 0.55 2.41 2.480 Pass

CH₀

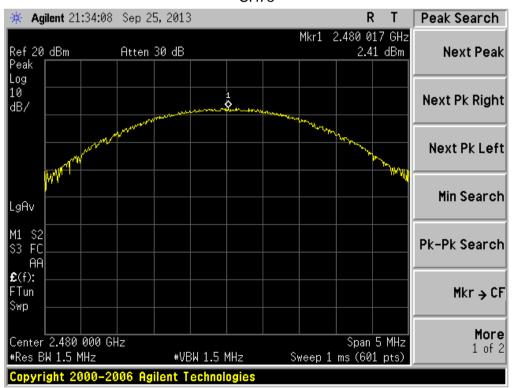


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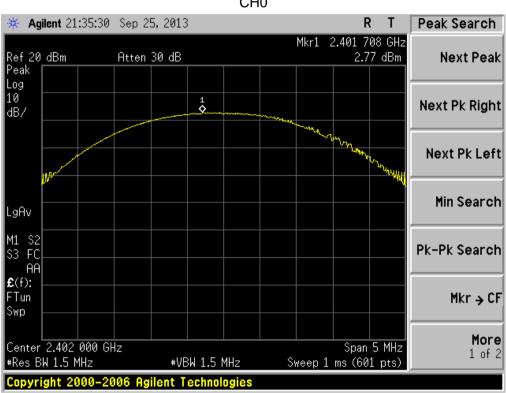
CH78



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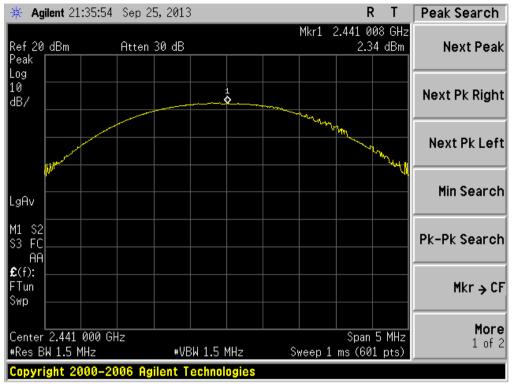
	PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION										
Frequency (GHz)	Pass or Fall										
2.402	0.89	2.77	21	Pass							
2.441	0.42	2.34	21	Pass							
2.480	0.05	1.94	21	Pass							

CH₀

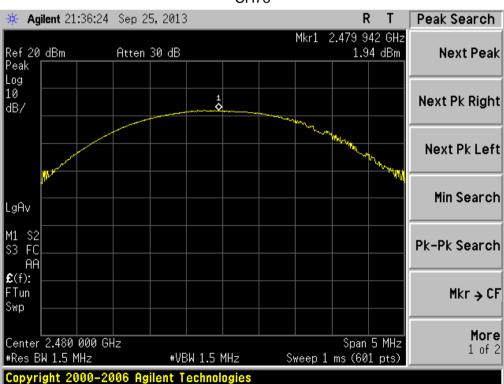


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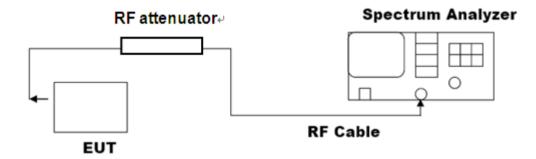
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8. 20DB BANDWIDTH

8.1. 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 Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ RBW; Sweep = auto; Detector function = peak
- 5. Set SPA Trace 1 Max hold, then View.

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



8.3. LIMITS AND MEASUREMENT RESULTS

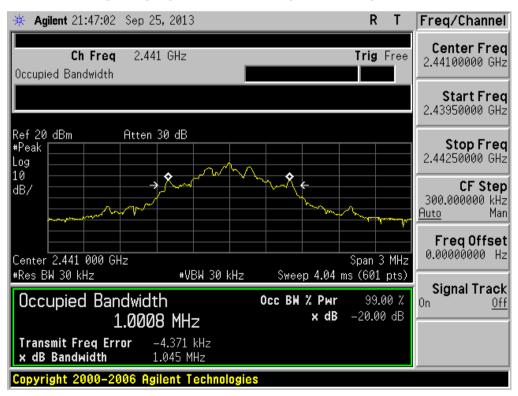
BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESUL								
Annicola I imito	Measurement Result							
Applicable Limits	Test Da	Criteria						
	Low Channel	1.044	PASS					
N/A	Middle Channel	1.045	PASS					
	High Channel	1.045	PASS					

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TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

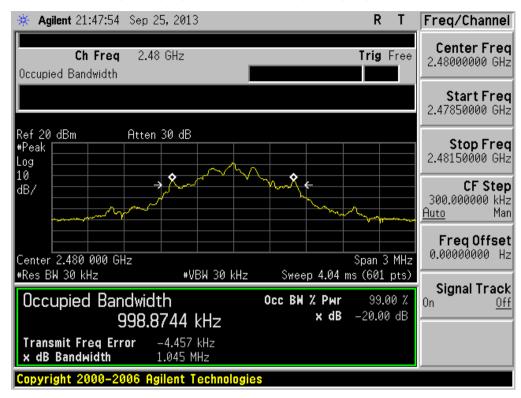


TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



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TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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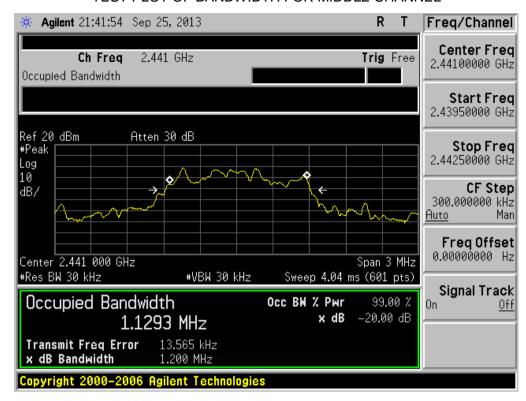
BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESUL								
Applicable Limite	Measurement Result							
Applicable Limits	Test Da	Criteria						
	Low Channel	1.200	PASS					
N/A	Middle Channel	1.200	PASS					
	High Channel	1.200	PASS					

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

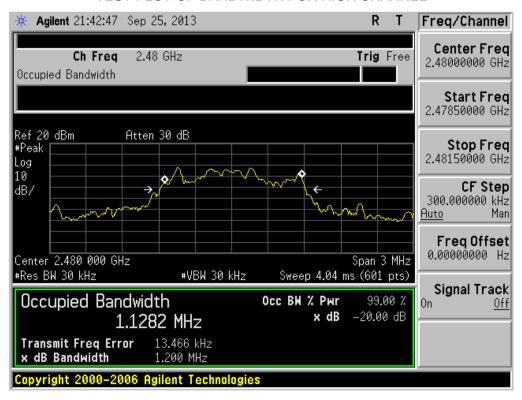


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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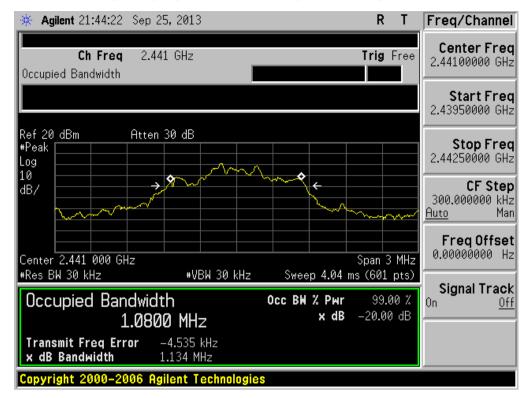
BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESUL								
Applicable Limite	Measurement Result							
Applicable Limits	Test Da	Criteria						
	Low Channel	1.138	PASS					
N/A	Middle Channel	1.134	PASS					
	High Channel	1.128	PASS					

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

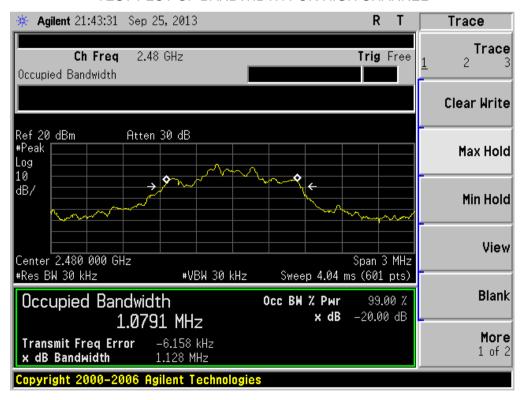


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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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9. CONDUCTED SPURIOUS EMISSION

9.1. 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 the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
 - RBW = 100 kHz; VBW ≥ RBW; Sweep = auto; Detector function = peak.
- 5. Set SPA Trace 1 Max hold, then View.

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

The same as described in section 8.2

9.3. MEASUREMENT EQUIPMENT USED

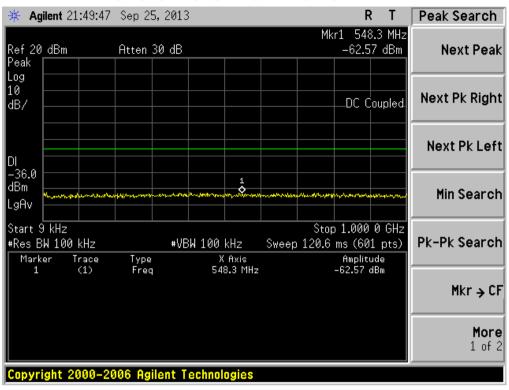
The same as described in section 6

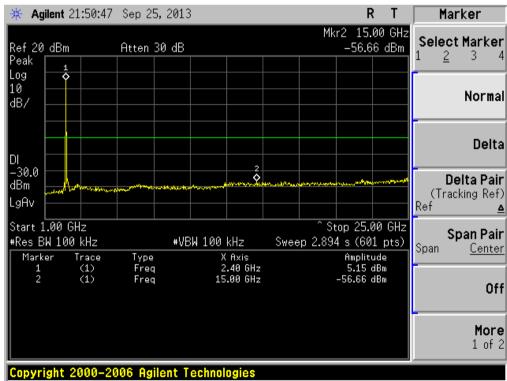
9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT									
Applicable Limite	Measurement Result								
Applicable Limits	Test Data	Criteria							
In any 100 KHz Bandwidth Outside the	At least -20dBc than the limit								
frequency band in which the spread spectrum	Specified on the BOTTOM	PASS							
intentional radiator is operating, the radio frequency	Channel								
power that is produce by the intentional radiator									
shall be at least 20 dB below that in 100KHz									
bandwidth within the band that contains the highest									
level of the desired power.	At least -20dBc than the limit	DACC							
In addition, radiation emissions which fall in the	Specified on the TOP Channel	PASS							
restricted bands, as defined in §15.205(a), must also									
comply with the radiated emission limits specified									
in§15.209(a))									

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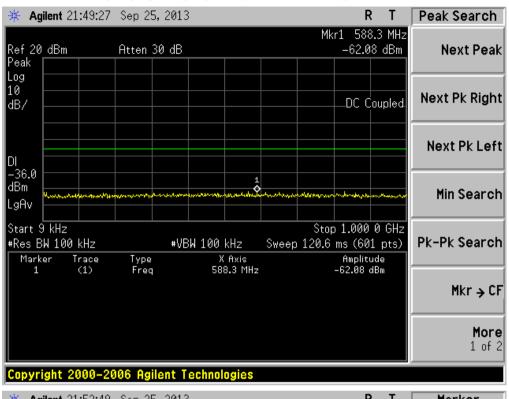
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF GFSK MODULATION IN LOW CHANNEL

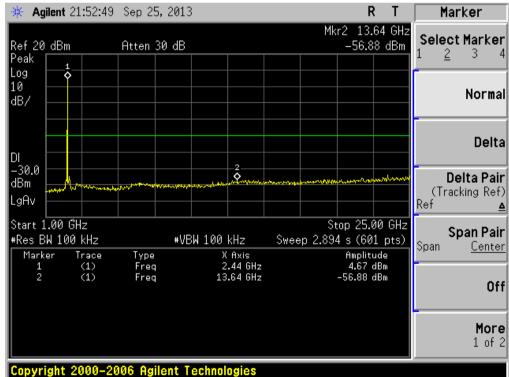




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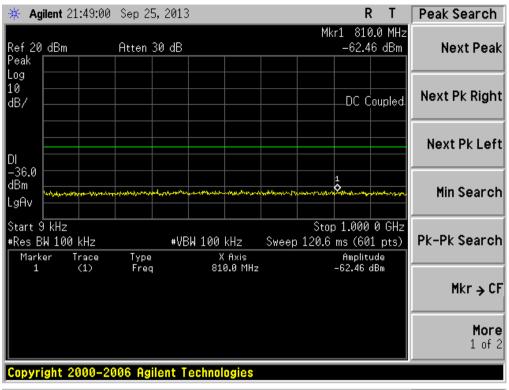
TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN MIDDLE CHANNEL

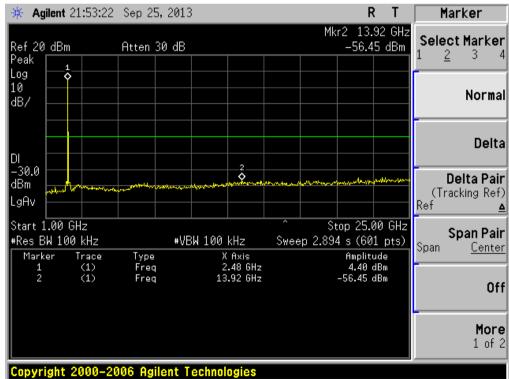




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TEST PLOT OF OUT OF BAND EMISSIONS OF GFSK MODULATION IN HIGH CHANNEL





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10. RADIATED EMISSION

10.1. 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.

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

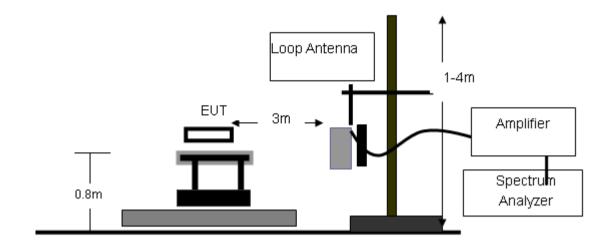
Spectrum Parameter	Setting
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/1MHz for Peak, 1MHz/10Hz for Average

Receiver Parameter	Setting
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

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10.2. TEST SETUP

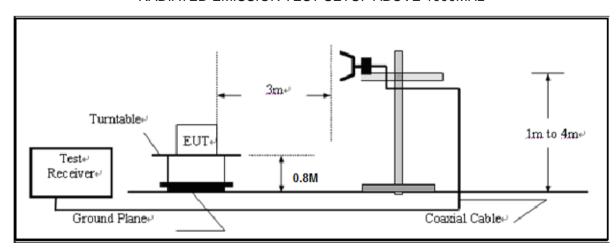
RADIATED EMISSION TEST SETUP BELOW 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



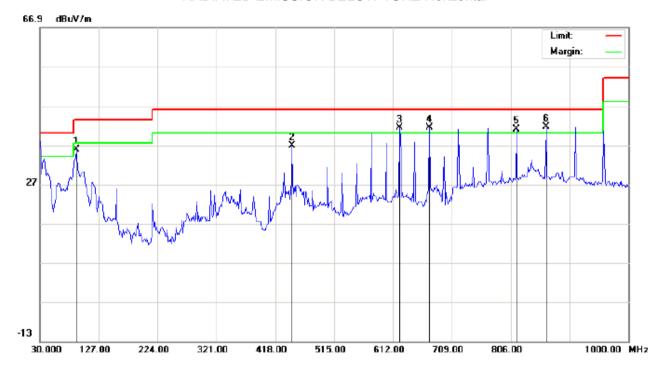
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10.3. TEST RESULT

TEST PLOT OF GFSK MODULATION IN (Worst Cast) RADIATED EMISSION BELOW 30MHZ

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

RADIATED EMISSION BELOW 1GHZ-Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

EUT: Tablet PC Distance: 3m

M/N: Q80A13-2M

Mode: Normal Hopping+Charging

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		89.8165	21.99	13.77	35.76	43.50	-7.74	peak			
2		445.4832	15.27	21.59	36.86	46.00	-9.14	peak			
3	İ	623.3166	15.46	25.86	41.32	46.00	-4.68	peak			
4	İ	671.8166	17.01	24.32	41.33	46.00	-4.67	peak			
5	į	815.7000	11.39	29.58	40.97	46.00	-5.03	peak	·		
6	*	864.2000	11.61	29.98	41.59	46.00	-4.41	peak	·		

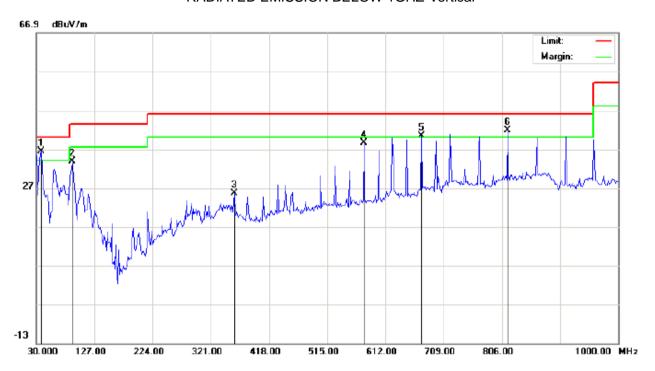
Temperature: 26

Humidity: 60 %

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RESULT: PASS

RADIATED EMISSION BELOW 1GHZ-Vertical



Polarization: Vertical

Site: site #1

Limit: FCC Class B 3M Radiation

EUT: Tablet PC

M/N: Q80A13-2M

Mode: Normal Hopping+Charging

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	38.0833	29.54	6.84	36.38	40.00	-3.62	peak			
2		89.8165	28.79	5.02	33.81	43.50	-9.69	peak			
3		359.8000	5.13	20.41	25.54	46.00	-20.46	peak			
4		576.4333	14.24	24.43	38.67	46.00	-7.33	peak			
5	į	671.8166	13.99	26.32	40.31	46.00	-5.69	peak			
6	į	815.7000	12.24	29.60	41.84	46.00	-4.16	peak			

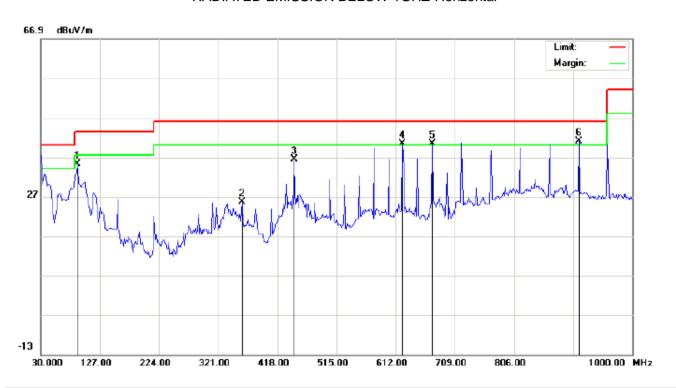
Power:

Distance: 3m

RESULT: PASS

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RADIATED EMISSION BELOW 1GHZ-Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26

Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

EUT: Tablet PC Distance: 3m

M/N: Q80A13-2M Mode: Low Channel TX

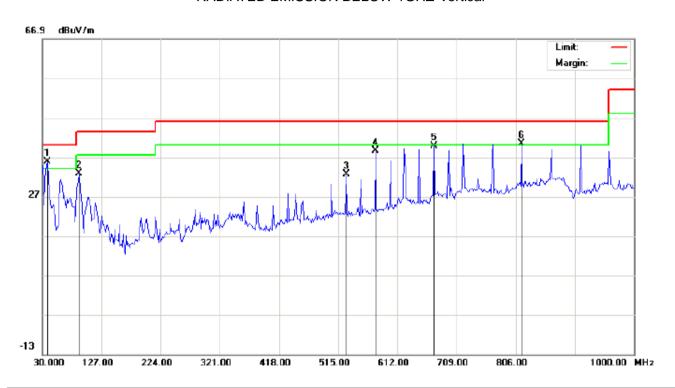
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		89.8165	21.49	13.77	35.26	43.50	-8.24	peak			
2		359.8000	5.20	20.41	25.61	46.00	-20.39	peak			
3		445.4832	14.77	21.59	36.36	46.00	-9.64	peak			
4	İ	623.3166	14.46	25.86	40.32	46.00	-5.68	peak			
5	İ	671.8166	16.01	24.32	40.33	46.00	-5.67	peak			
6	*	912.7000	13.56	27.39	40.95	46.00	-5.05	peak			

RESULT: PASS

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RADIATED EMISSION BELOW 1GHZ-Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

EUT: Tablet PC Distance: 3m

M/N: Q80A13-2M Mode: Low Channel TX

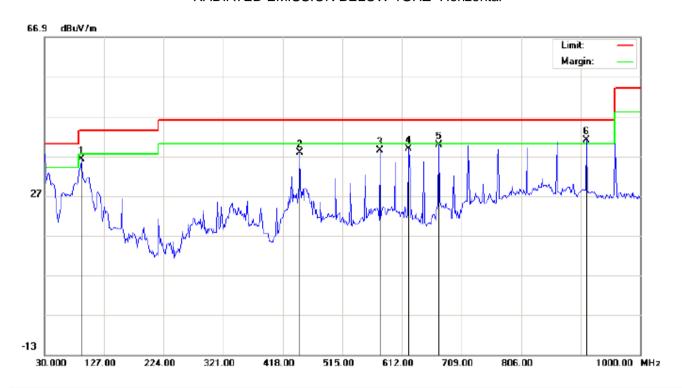
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu√/m	dB		cm	degree	
1	*	38.0833	29.04	6.84	35.88	40.00	-4.12	peak			
2		89.8165	27.79	5.02	32.81	43.50	-10.69	peak			
3		527.9333	9.46	23.07	32.53	46.00	-13.47	peak			
4		576.4333	14.24	24.43	38.67	46.00	-7.33	peak			
5		671.8166	13.49	26.32	39.81	46.00	-6.19	peak			
6	İ	815.7000	10.74	29.60	40.34	46.00	-5.66	peak			

RESULT: PASS

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RADIATED EMISSION BELOW 1GHZ- Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

EUT: Tablet PC Distance: 3m

M/N: Q80A13-2M

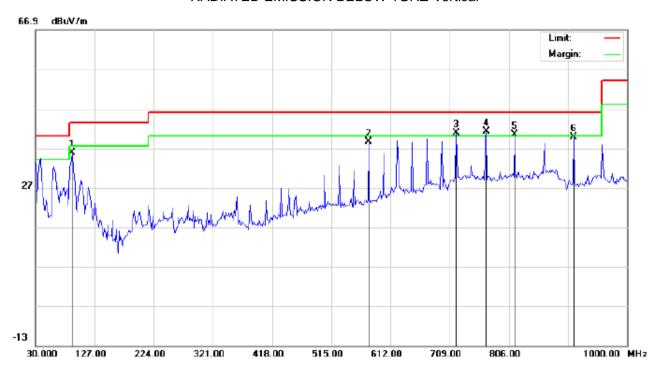
Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		89.8165	22.49	13.77	36.26	43.50	-7.24	peak			
2		445.4832	16.27	21.59	37.86	46.00	-8.14	peak			
3		576.4333	13.96	24.43	38.39	46.00	-7.61	peak			
4		623.3166	12.96	25.86	38.82	46.00	-7.18	peak			
5		671.8166	15.51	24.32	39.83	46.00	-6.17	peak			
6	*	912.7000	13.56	27.39	40.95	46.00	-5.05	peak			

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RADIATED EMISSION BELOW 1GHZ-Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

EUT: Tablet PC Distance: 3m

M/N: Q80A13-2M

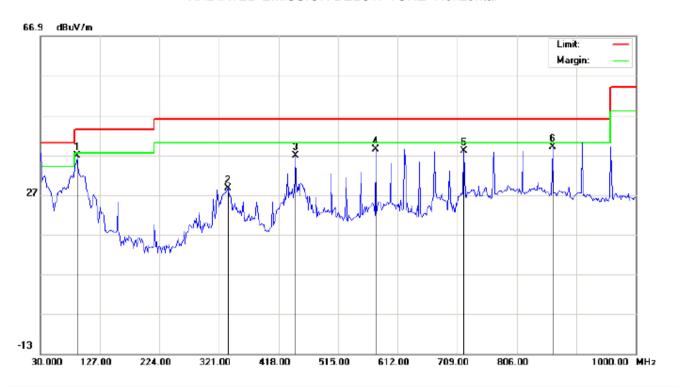
Mode: Middle Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		89.8165	30.79	5.02	35.81	43.50	-7.69	peak			
2		576.4333	14.24	24.43	38.67	46.00	-7.33	peak			
3	İ	720.3166	13.34	27.55	40.89	46.00	-5.11	peak			
4	*	768.8166	12.72	28.39	41.11	46.00	-4.89	peak			
5	İ	815.7000	10.74	29.60	40.34	46.00	-5.66	peak			
6		912.7000	12.54	27.24	39.78	46.00	-6.22	peak			

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RADIATED EMISSION BELOW 1GHZ- Horizontal



Site: site #1 Polarization: Horizontal Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

EUT: Tablet PC Distance: 3m

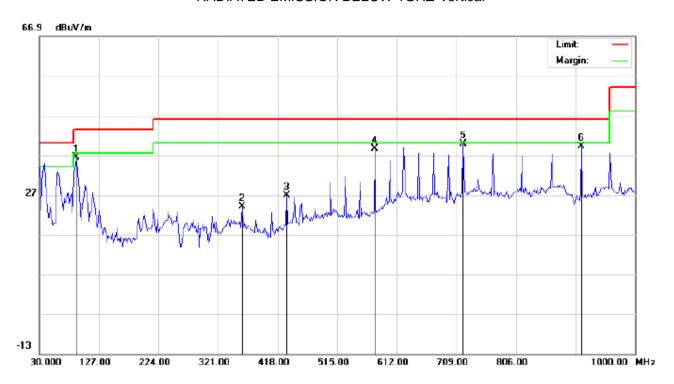
M/N: Q80A13-2M Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1	*	89.8165	22.99	13.77	36.76	43.50	-6.74	peak			
2		335.5500	8.56	20.04	28.60	46.00	-17.40	peak			
3		445.4832	15.27	21.59	36.86	46.00	-9.14	peak			
4		576.4333	13.96	24.43	38.39	46.00	-7.61	peak			
5		720.3166	12.50	25.55	38.05	46.00	-7.95	peak		·	
6		864.2000	9.11	29.98	39.09	46.00	-6.91	peak			

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RADIATED EMISSION BELOW 1GHZ-Vertical



Site: site #1 Polarization: Vertical Temperature: 26
Limit: FCC Class B 3M Radiation Power: Humidity: 60 %

EUT: Tablet PC Distance: 3m

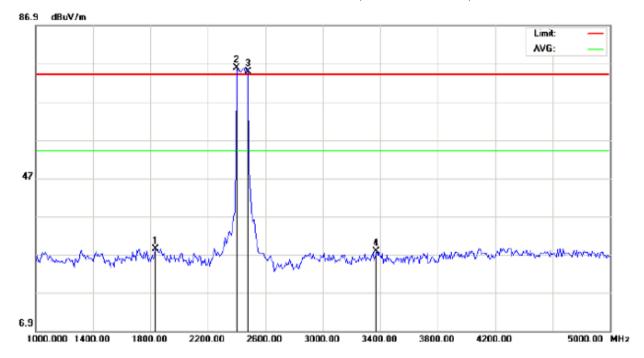
M/N: Q80A13-2M Mode: High Channel TX

Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
	-	MHz	dBu∀	dB/m	dBu∀/m	dBu∀/m	dB		cm	degree	
1		89.8165	31.29	5.02	36.31	43.50	-7.19	peak			
2		359.8000	3.63	20.41	24.04	46.00	-21.96	peak			
3		432.5500	5.34	21.42	26.76	46.00	-19.24	peak			
4		576.4333	14.24	24.43	38.67	46.00	-7.33	peak			
5	*	720.3166	12.34	27.55	39.89	46.00	-6.11	peak			
6		912.7000	12.04	27.24	39.28	46.00	-6.72	peak			

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) -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

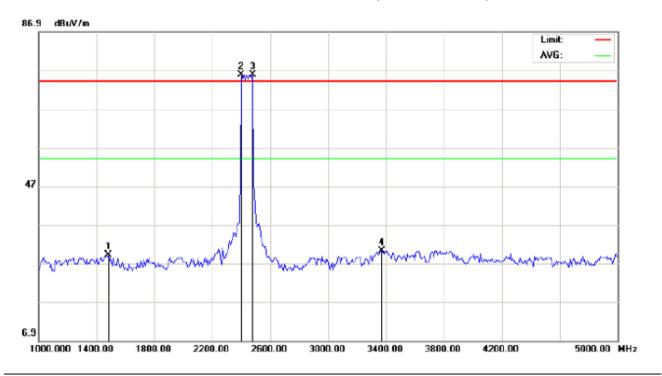
M/N: Q80A13-2M Mode: Normal Hopping

Note:

Frequency	reading level	Antenna factor	Amplifier gain	Cable Loss	Measurement level	Limit	Margin
(MHz)	(dBuV/m)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
1833.333	38.63	27.34	45.35	10.23	30.85	74	-43.15
2402	84.21	29.22	45.17	10.26	78.52	74	4.52
2480	82.89	30.45	45.21	10.23	78.36	74	4.36
3373.333	35.68	32.72	44.93	10.23	33.7	74	-40.3

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RADIATED EMISSION ABOVE 1GHZ (1-10th Harmonics) -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: Q80A13-2M Mode: Normal Hopping

Note:

Frequency	reading level	Antenna factor	Amplifier gain	Cable Loss	Measurement level	Limit	Margin
(MHz)	(dBuV/m)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
1480	39.68	25.8	45.87	10.25	29.86	74	-44.14
2402	84.21	29.22	45.17	10.26	78.52	74	4.52
2480	83.89	30.45	45.21	10.23	79.36	74	5.36
3373.333	38.18	31.62	45.05	10.24	34.99	74	-39.01

RESULT: PASS

Note: 5~25GHz at least have 20dB margin. No recording in the test report.

Measurement level=Antenna Factor+ Cable loss+reading level-Amplifier gain,

Margin=Measurement-Limit.

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11. BAND EDGE EMISSION

11.1. 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>=1%span, VBW>=RBW
- 3. The band edges was measured and recorded.

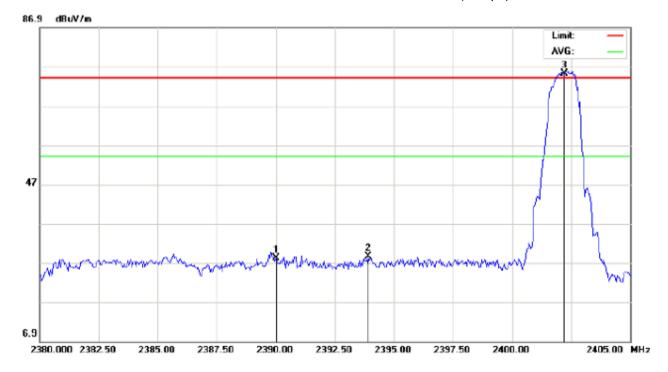
11.2. TEST SET-UP

Radiated same as 10.2

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11.3. TEST RESULT

TEST PLOT OF BAND EDGE FOR LOW CHANNEL (3Mbps)-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

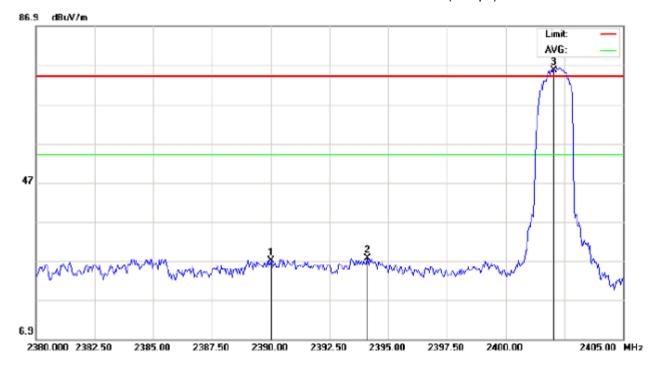
M/N: Q80A13-2M

Mode: Low Channel TX

Frequency	level factor		Amplifier gain	Cable Loss	Measurement level	Limit	Margin
(MHz)	(dBuV/m)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2390	36.68	29.1	45.16	10.24	30.86	74	-43.14
2393.917	36.95	29.1	45.17	10.25	31.13	74	-42.87
2402.22	83.67	29.22	45.17	10.26	77.98	74	3.98

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TEST PLOT OF BAND EDGE FOR LOW CHANNEL (3Mbps)-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

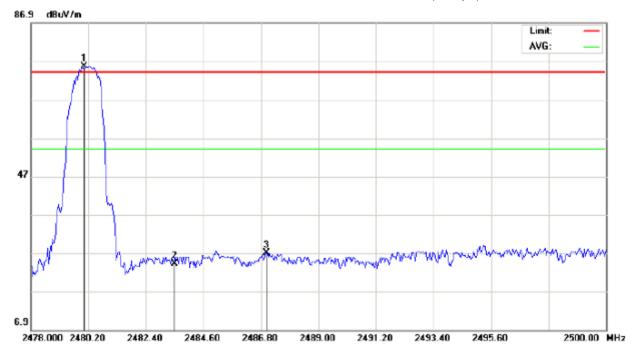
M/N: Q80A13-2M Mode: Low Channel TX

Node. Low orianiici

Frequency	ievei factor		Amplifier gain	Cable Loss	Measurement level	Limit	Margin
(MHz)	(dBuV/m)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)
2390	35.49	29.1	45.16	10.24	29.67	74	-44.33
2394.125	36.09	29.1	45.16	10.24	30.27	74	-43.73
2402.06	84.94	29.22	45.17	10.26	79.25	74	5.25

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (3Mbps)-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

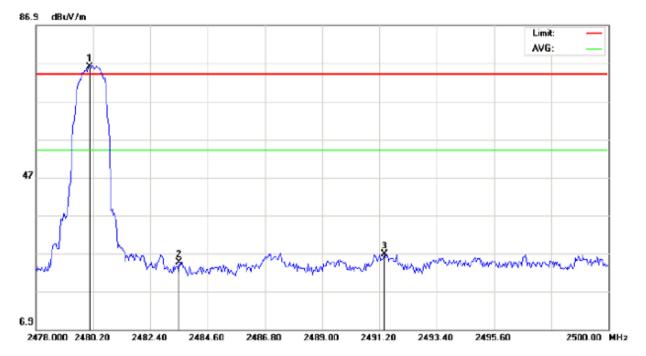
M/N: Q80A13-2M Mode: High Channel TX

....

Frequency	level factor		Amplifier gain	Cable Loss	Measurement level	Limit	Margin	
(MHz)	(dBuV/m)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
2480.03	83.63	29.1	45.16	10.23	77.8	74	3.8	
2483.5	32.24	29.1	45.16	10.24	26.42	74	-47.58	
2487 02	35.13	29 1	45 17	10.26	29 32	74	-44 68	

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TEST PLOT OF BAND EDGE FOR HIGH CHANNEL (3Mbps)-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: Q80A13-2M Mode: High Channel TX

Note:

Frequency	level factor		Amplifier gain	Cable Loss	Measurement level	Limit	Margin	
(MHz)	(dBuV/m)	(dB)	(dB)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
2480.06	84.12	29.1	45.16	10.23	78.29	74	4.29	
2483.5	32.61	29.1	45.16	10.24	26.79	74	-47.21	
2491 383	34.74	29 1	45 17	10.26	28 93	74	-45 07	

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12. NUMBER OF HOPPING FREQUENCY

12.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer Start = 2.4GHz Stop = 2.4835GHz
- 4. Set the Spectrum Analyzer as RBW>=1%span, VBW>=RBW.

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

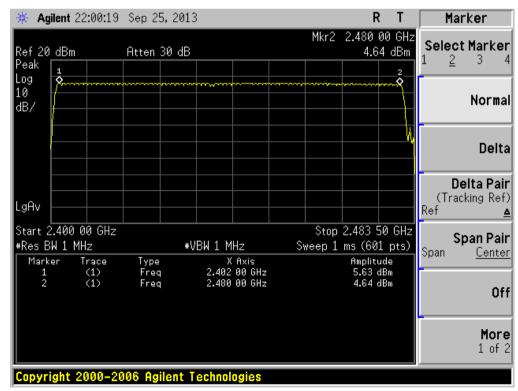
12.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

12.4. LIMITS AND MEASUREMENT RESULT

TOTAL NO. OF	LIMIT (NO. OF CH)	MEASUREMENT (NO. OF CH)	RESULT
HOPPING CHANNEL	>=15	79	PASS

TEST PLOT FOR NO. OF TOTAL CHANNELS



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13. TIME OF OCCUPANCY (DWELL TIME)

13.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer.
- 3. Set Span = zero span, centered on a hoping channel
- 4. Set the spectrum analyzer as RBW=1MHz, VBW>=RBW, Span = 0 Hz

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 8.2

13.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

13.4. LIMITS AND MEASUREMENT RESULT

The Worst Case (3Mbps)

Channel	Time of Pulse for DH5 (ms)	Period Time (s)	Sweep Time (ms)	Limit (ms)
Low	2.908	31.6	310.19	400
Middle	2.908	31.6	310.19	400
High	2.908	31.6	310.19	400

Low Channel Time

2.908*(1600/6)/79*31.6=310.19 ms

Middle Channel Time

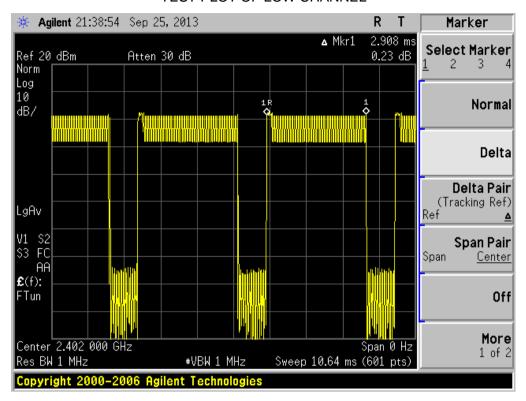
2.908*(1600/6)/79*31.6=310.19 ms

High Channel Time

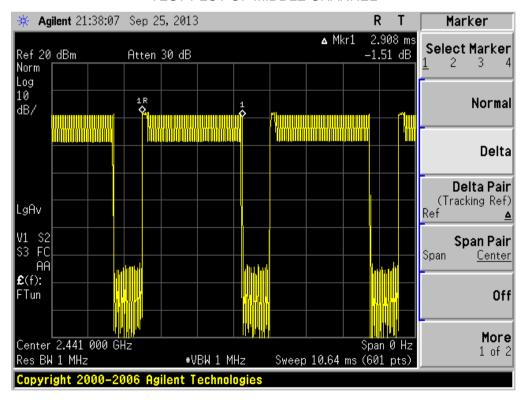
2.908*(1600/6)/79*31.6=310.19 ms

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TEST PLOT OF LOW CHANNEL

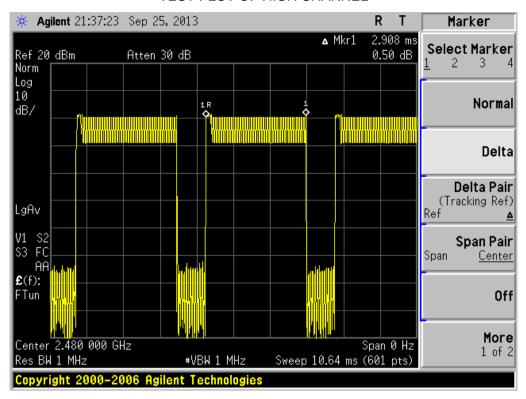


TEST PLOT OF MIDDLE CHANNEL



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TEST PLOT OF HIGH CHANNEL



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14. FREQUENCY SEPARATION

14.1. MEASUREMENT PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode
- 2. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum analyzer
- Set Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold

14.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)

Same as described in section 6.2

14.3. MEASUREMENT EQUIPMENT USED

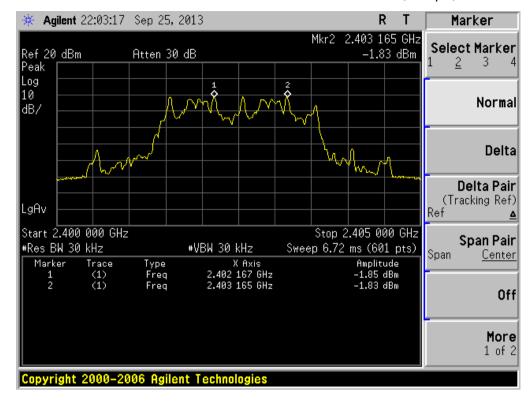
The same as described in section 6.3

14.4. LIMITS AND MEASUREMENT RESULT

CHANNEL	CHANNEL SEPARATION	LIMIT	RESULT			
	KHz	KHz	Door			
CH00-CH01	998	>=25 KHz or 2/3 20 dB BW	Pass			

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TEST PLOT FOR FREQUENCY SEPARATION (3Mbps)



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15. FCC LINE CONDUCTED EMISSION TEST

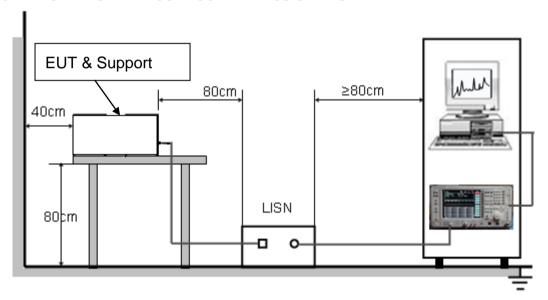
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Francis	Maximum RF Line Voltage							
Frequency	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.

15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

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 DC charging voltage by adapter which received 120V/60Hzpower 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 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.

15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

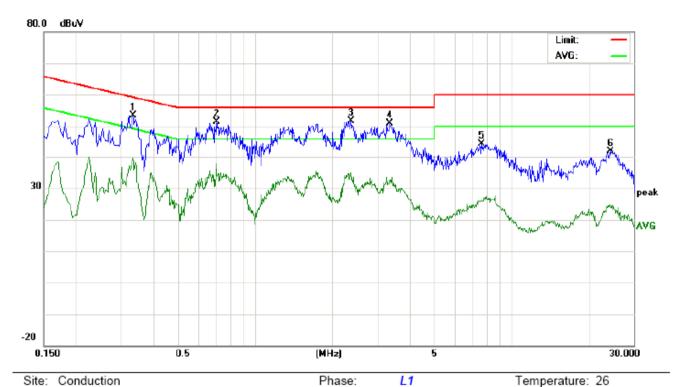
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

Humidity: 60 %

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15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



Limit: FCC Class B Conduction(QP)

EUT: Tablet PC M/N: Q80A13-2M

Mode: Normal Hopping+Charging

Note:

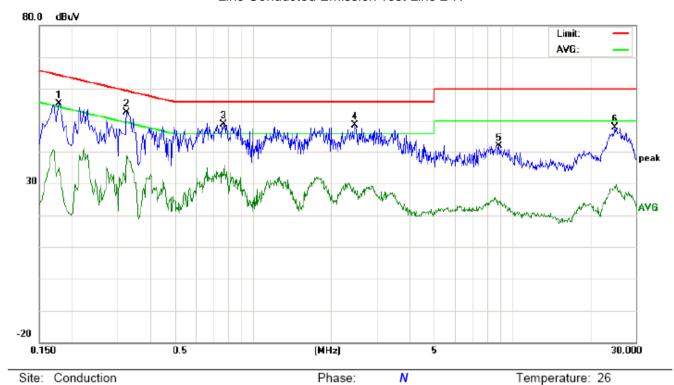
No. Freq.		Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG			
1	0.3339	43.17		29.36	10.30	53.47		39.66	59.35	49.35	-5.88	-9.69	Р	
2	0.7060	41.11		27.46	10.35	51.46		37.81	56.00	46.00	-4.54	-8.19	Р	
3	2.3820	41.35		23.93	10.38	51.73		34.31	56.00	46.00	-4.27	-11.69	Р	
4	3.3460	40.27		21.99	10.52	50.79		32.51	56.00	46.00	-5.21	-13.49	Р	
5	7.6660	34.10		15.88	10.34	44.44		26.22	60.00	50.00	-15.56	-23.78	Р	
6	24.3060	31.79		13.85	10.11	41.90		23.96	60.00	50.00	-18.10	-26.04	Р	

Power:

Humidity: 60 %

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Line Conducted Emission Test Line 2-N



Site: Conduction Phase: N
Limit: FCC Class B Conduction(QP) Power:

EUT: Tablet PC M/N: Q80A13-2M

Mode: Normal Hopping+Charging

No. Freq.		Reading_Level (dBuV)			Correct Factor	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
	(MHz)	Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.1780	45.11		24.57	10.19	55.30		34.76	64.57	54.57	-9.27	-19.81	Р	
2	0.3260	42.31		28.41	10.30	52.61		38.71	59.55	49.55	-6.94	-10.84	Р	
3	0.7740	38.54		23.05	10.30	48.84		33.35	56.00	46.00	-7.16	-12.65	Р	
4	2.4820	38.12		16.85	10.42	48.54		27.27	56.00	46.00	-7.46	-18.73	Р	
5	8.8740	31.70		13.79	10.24	41.94		24.03	60.00	50.00	-18.06	-25.97	Р	
6	24.8980	37.69		19.11	10.12	47.81		29.23	60.00	50.00	-12.19	-20.77	Р	

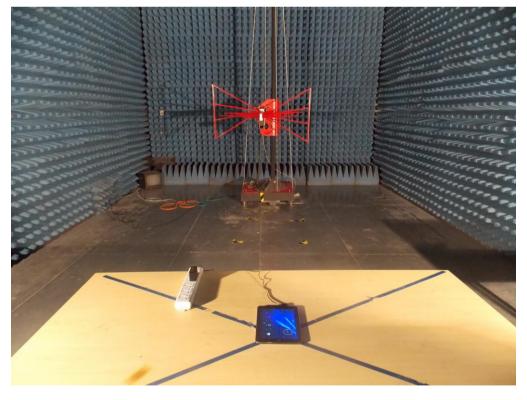
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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT

TOTAL VIEW OF EUT



TOP VIEW OF EUT



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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT

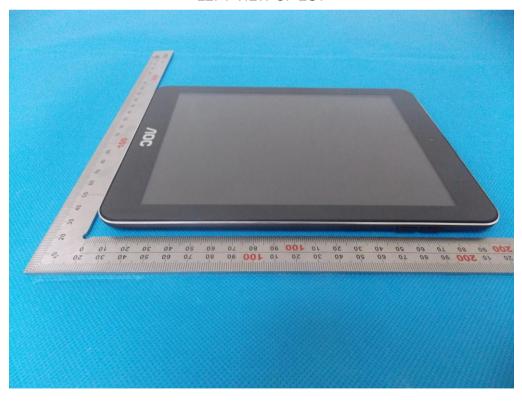


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LEFT VIEW OF EUT

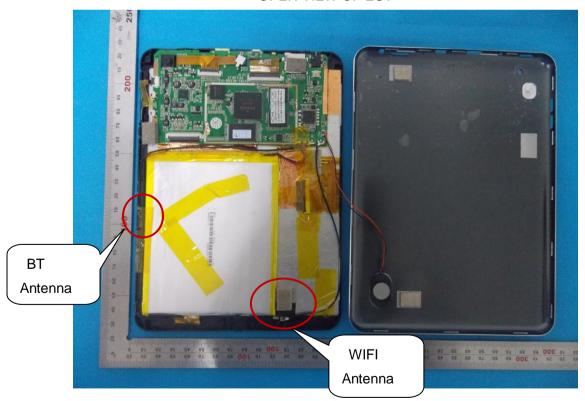


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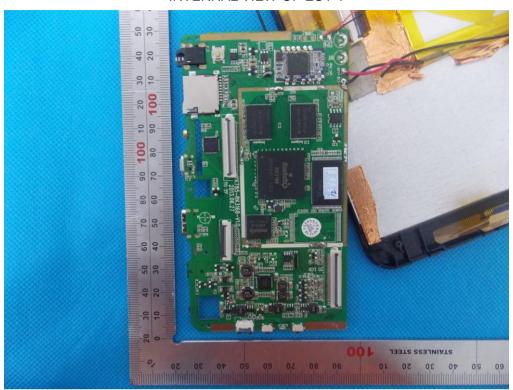
RIGHT VIEW OF EUT



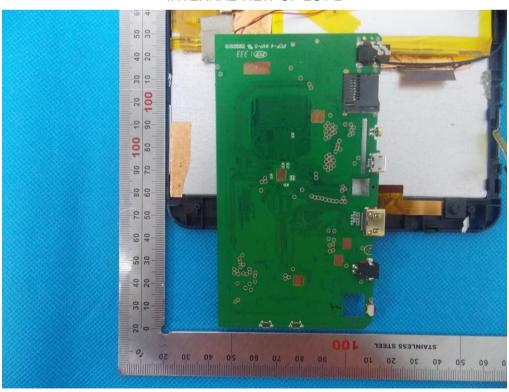
OPEN VIEW OF EUT



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



----END OF REPORT----