

F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #46

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet
Mode: TX802.11B (CH6)
Model: AppStar GX
Manufacturer: Conny

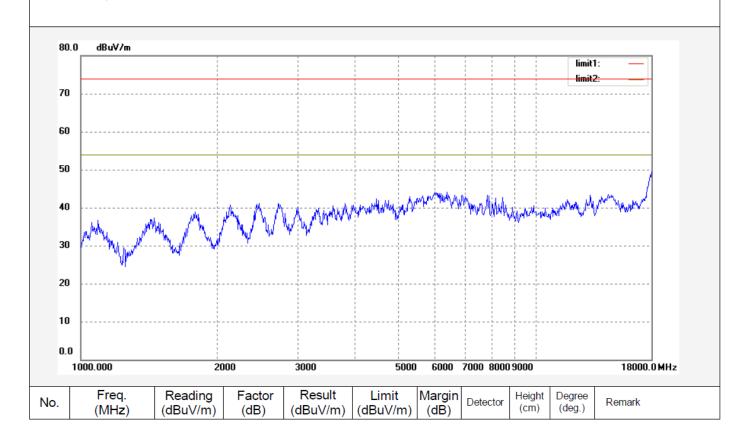
Note: Report No:ATE20131919

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 16/06/54

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #47

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet
Mode: TX802.11B (CH11)
Model: AppStar GX

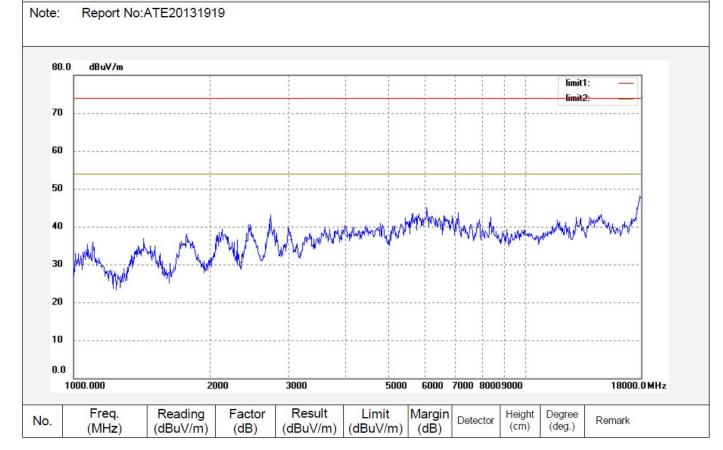
Manufacturer: Conny

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 16/09/39

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #48

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet

Mode: TX802.11B (CH11)

Model: AppStar GX

Model: AppStar GX Manufacturer: Conny

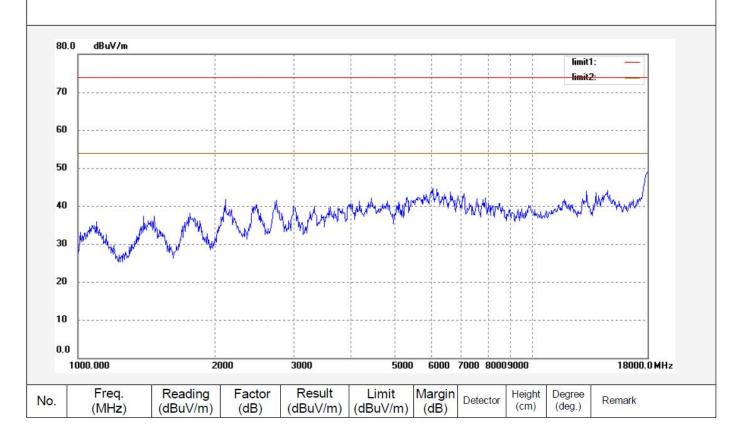
Note: Report No:ATE20131919

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 16/12/41

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #37

Standard: FCC PART 15B (PK) Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet Mode: TX802.11G (CH1) Model: AppStar GX

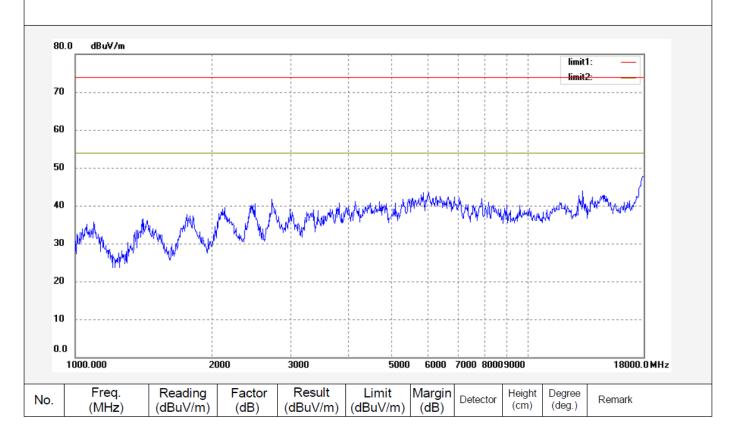
Manufacturer: Conny

Note: Report No:ATE20131919 Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/40/25

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #38

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet

Mode: TX802.11G (CH1)

Model: AppStar GX

Manufacturer: Conny

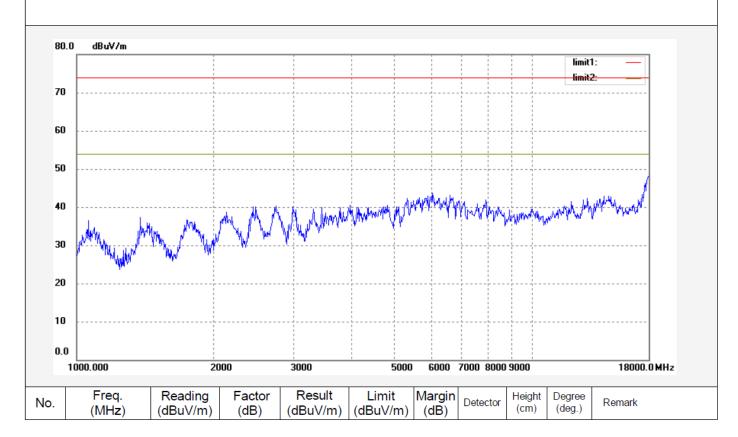
Note: Report No:ATE20131919

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/42/22

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #39

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet

Mode: TX802.11G (CH6)

Model: AppStar GX

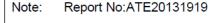
Manufacturer: Conny

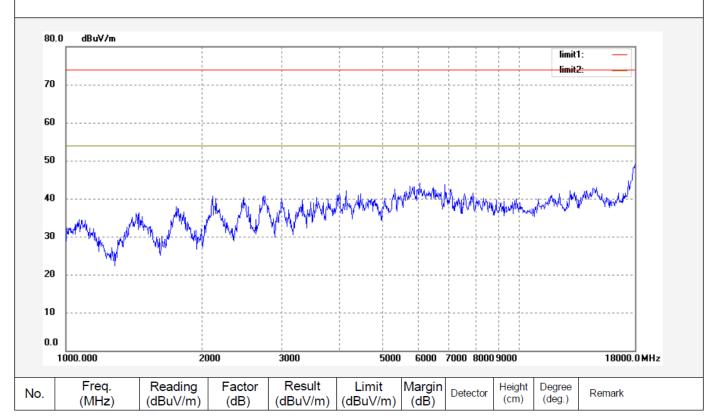
Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/46/39

Engineer Signature: Ricky







F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #40

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet

Mode: TX802.11G (CH6)

Model: AppStar GX

Manufacturer: Conny

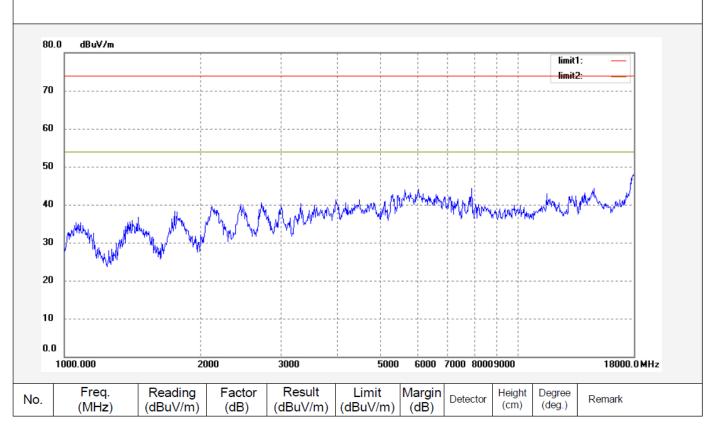
Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/49/53

Engineer Signature: Ricky







F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #41

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet Mode: TX802.11G (CH11)

Model: AppStar GX
Manufacturer: Conny

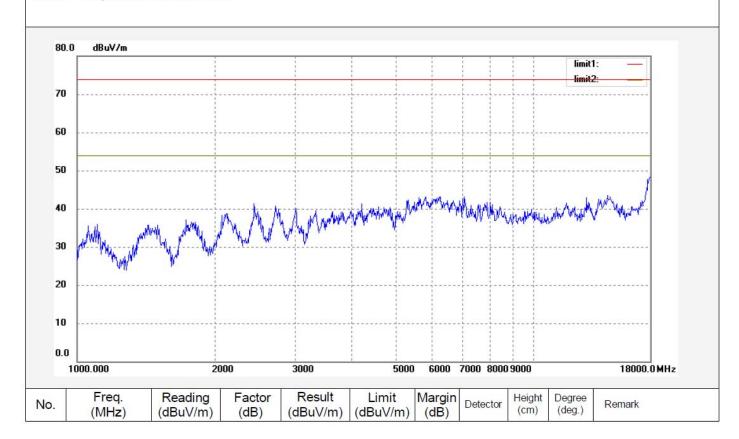
Note: Report No:ATE20131919

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/51/04

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #42

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

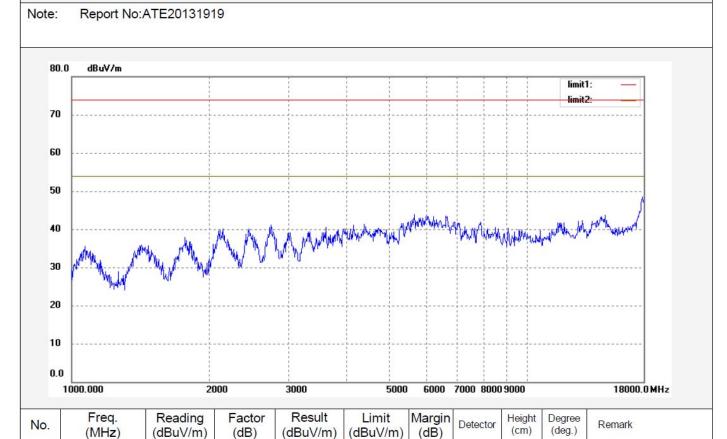
EUT: Kids Tablet Mode: TX802.11G (CH11)

Model: AppStar GX Manufacturer: Conny Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/54/15

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #36

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet Mode: TX802.11N20 (CH1)

Model: AppStar GX Manufacturer: Conny

Radiation Test

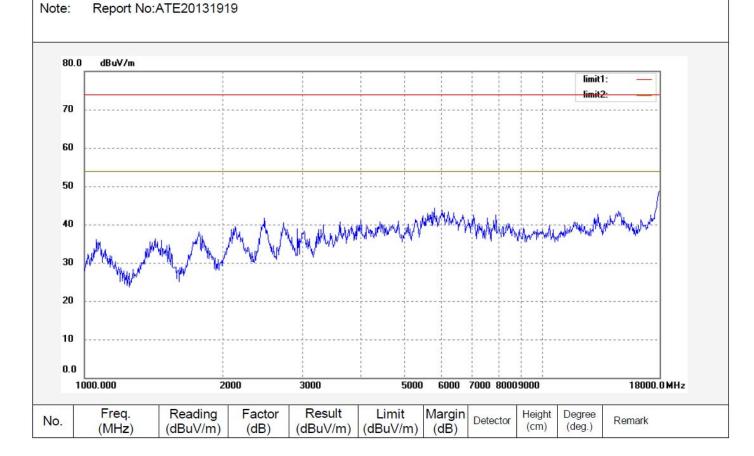
cturer: Conny

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/37/45

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #35

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet Mode: TX802.11N20 (CH1)

Model: AppStar GX Manufacturer: Conny

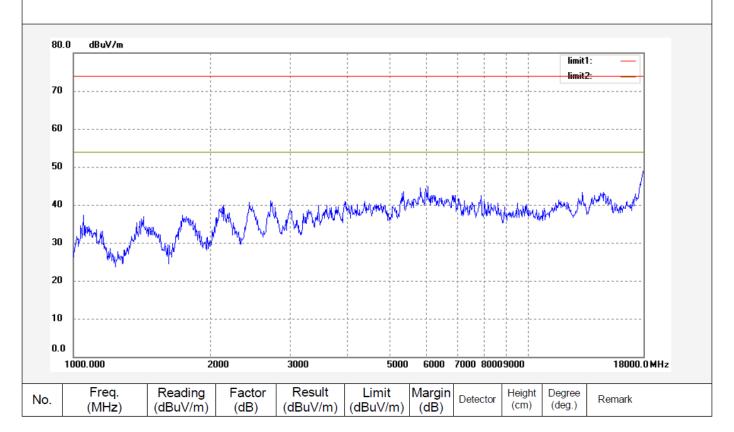
Note: Report No:ATE20131919

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/33/18

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #34

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet
Mode: TX802.11N20 (CH6)

Model: AppStar GX Manufacturer: Conny

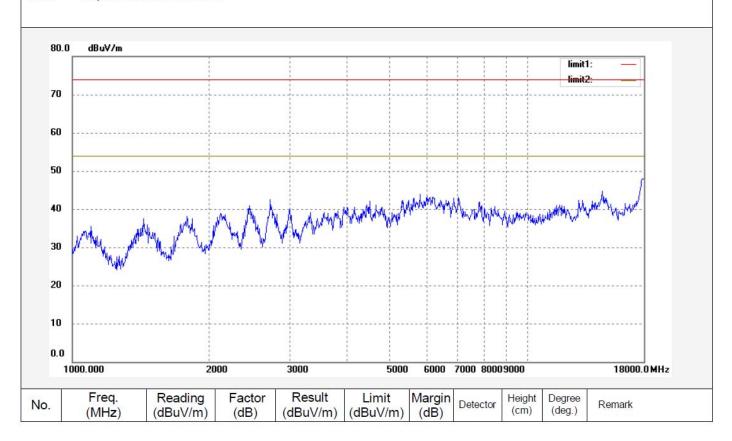
Note: Report No:ATE20131919

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/30/30

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #33

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet Mode: TX802.11N20 (CH6)

Model: AppStar GX Manufacturer: Conny

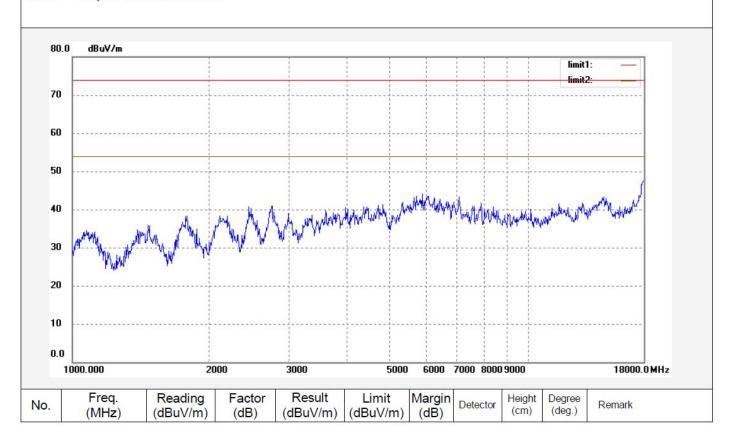
Note: Report No:ATE20131919

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/28/09

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #32

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet

Mode: TX802.11N20 (CH11)

Model: AppStar GX Manufacturer: Conny

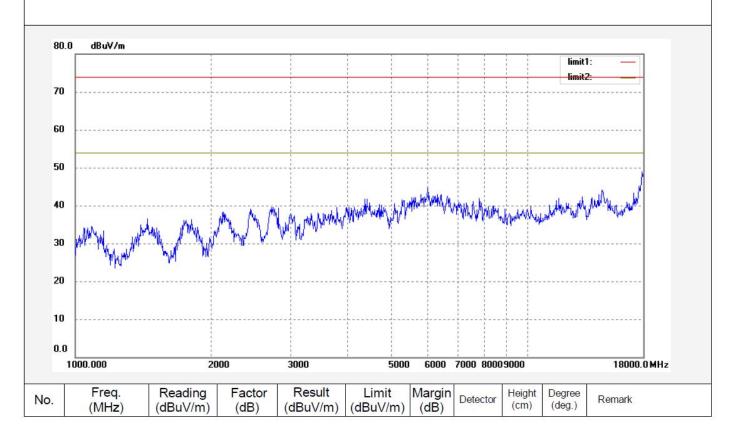
Note: Report No:ATE20131919

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/25/57

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park, Nanshan Shenzhen, P.R. China

Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #31

Standard: FCC PART 15B (PK) Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet

Mode: TX802.11N20 (CH11)

Model: AppStar GX Manufacturer: Conny

Note:

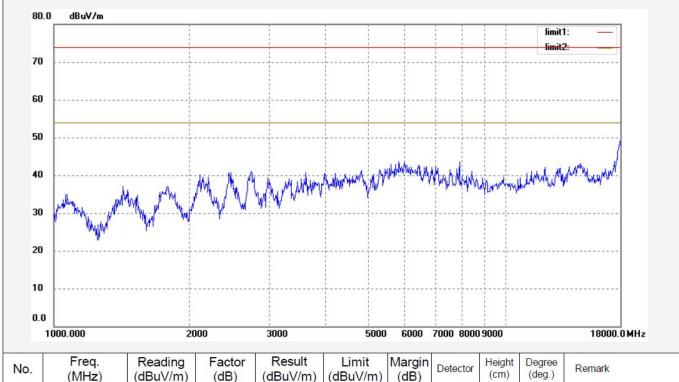
Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/23/37

Engineer Signature: Ricky







F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #25

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet
Mode: TX802.11N40 (CH3)

Model: AppStar GX Manufacturer: Conny

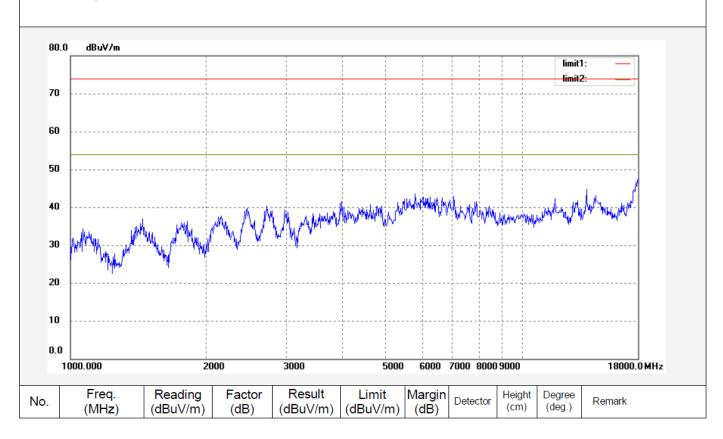
Note: Report No:ATE20131919

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/05/11

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #26

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet
Mode: TX802.11N40 (CH3)

Model: AppStar GX Manufacturer: Conny

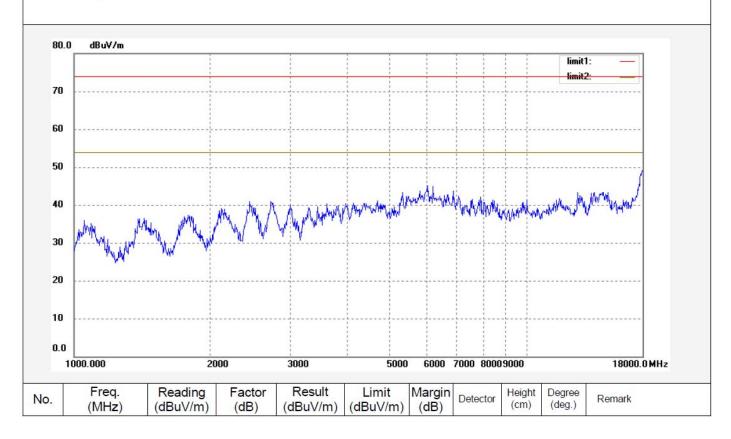
Note: Report No:ATE20131919

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/08/25

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #27

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet

Mode: TX802.11N40 (CH6)

Model: AppStar GX Manufacturer: Conny

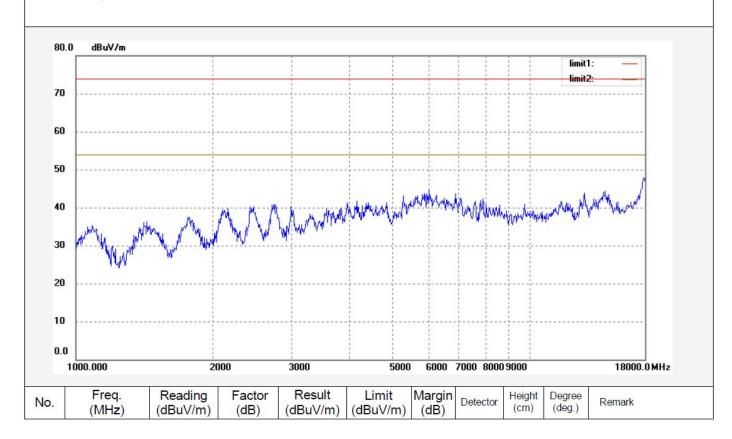
Note: Report No:ATE20131919

Polarization: Vertical

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/11/03

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #28

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet
Mode: TX802.11N40 (CH6)

Model: AppStar GX Manufacturer: Conny

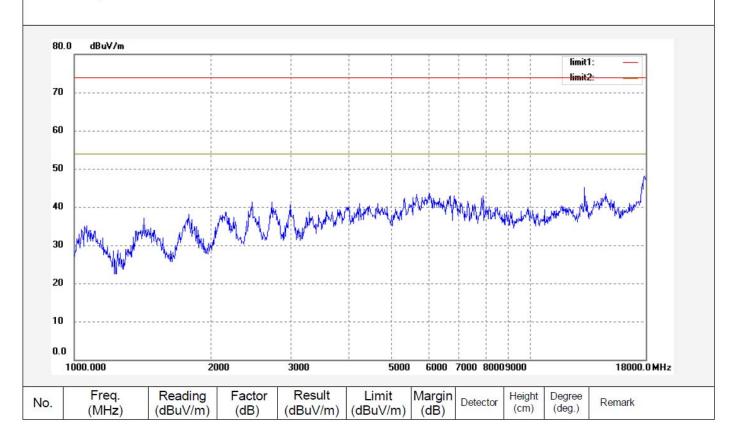
Note: Report No:ATE20131919

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/14/32

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #29

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet Mode: TX802.11N40 (CH9)

Model: AppStar GX Manufacturer: Conny

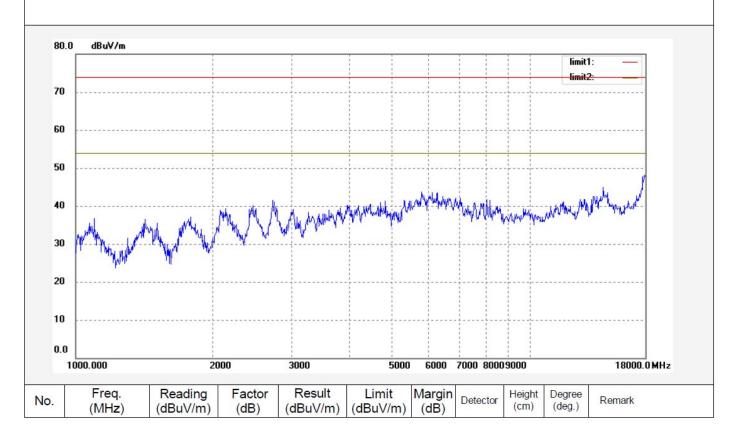
Note: Report No:ATE20131919

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 2013/09/26 Time: 15/17/43

Engineer Signature: Ricky





F1,Bldg,A,Changyuan New Material Port Keyuan Rd, Science & Industry Park,Nanshan Shenzhen,P.R.China Site: 1# Chamber Tel:+86-0755-26503290 Fax:+86-0755-26503396

Job No.: RICKY1 #30

Standard: FCC PART 15B (PK)
Test item: Radiation Test

Temp.(C)/Hum.(%) 23 C / 49 %

EUT: Kids Tablet
Mode: TX802.11N40 (CH9)

Model: AppStar GX Manufacturer: Conny

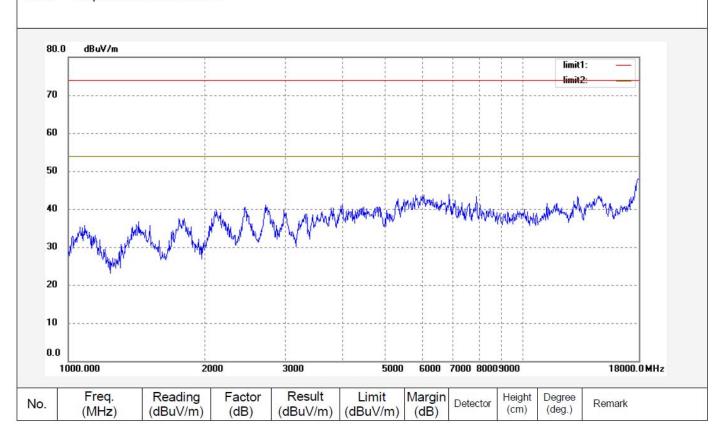
Note: Report No:ATE20131919

Polarization: Vertical

Power Source: AC 120V/60Hz

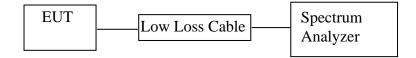
Date: 2013/09/26 Time: 15/20/16

Engineer Signature: Ricky



10. CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

10.1.Block Diagram of Test Setup



10.2. The Requirement For Section 15.247(d)

Section 15.247(d): 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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).

10.3.EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.4. Operating Condition of EUT

- 10.4.1. Setup the EUT and simulator as shown as Section 10.1.
- 10.4.2. Turn on the power of all equipment.
- 10.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

10.5.Test Procedure

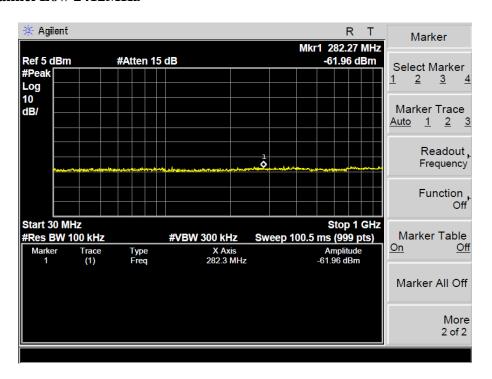
- 10.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- 10.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz (below 1GHz).
- 10.5.3.Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz (above 1GHz).
- 10.5.4. The Conducted Spurious Emission was measured and recorded.

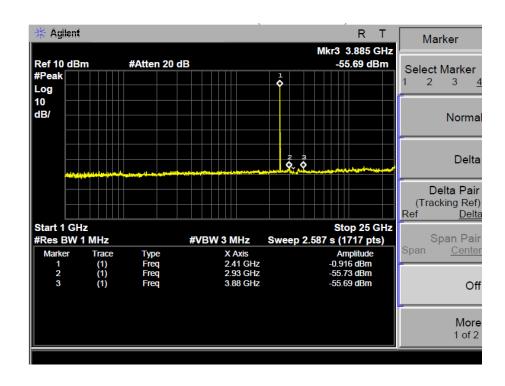
10.6.Test Result

Pass.

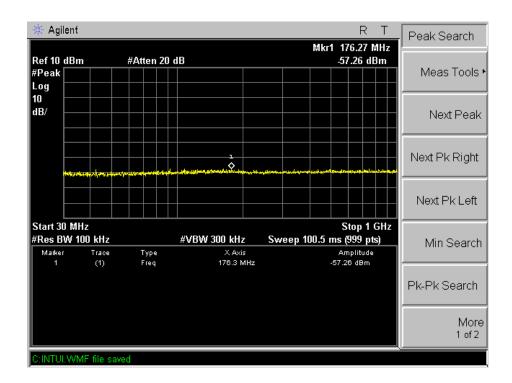
The spectrum analyzer plots are attached as below.

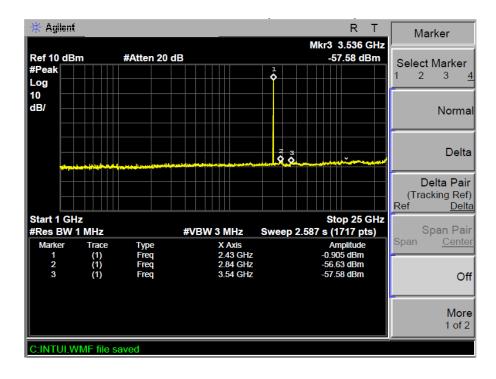
TX 802.11b Channel Low 2412MHz



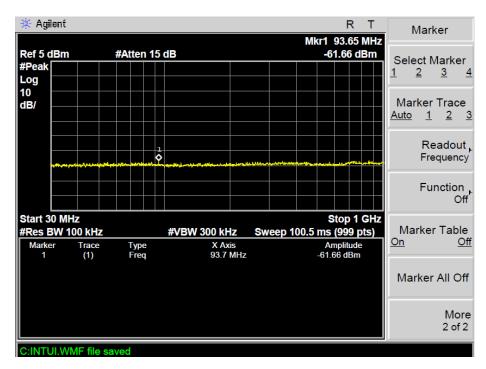


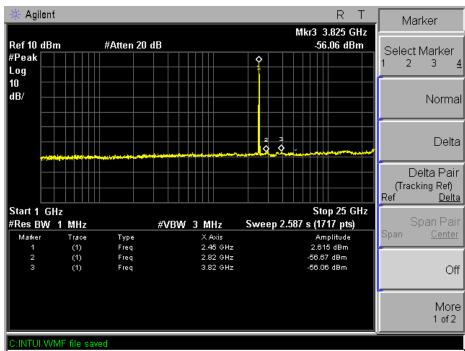
TX 802.11b Channel Middle 2437MHz



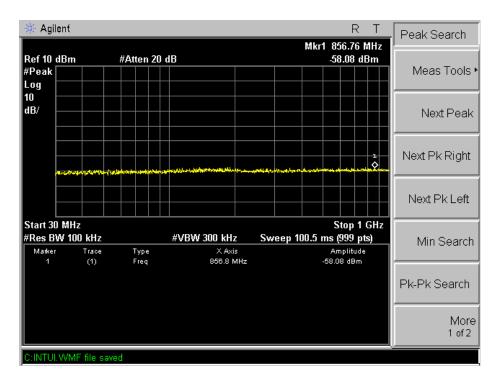


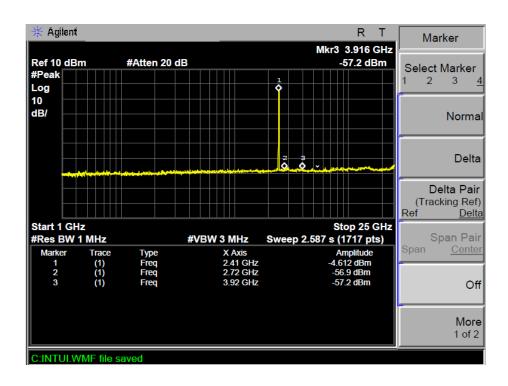
TX 802.11b Channel High 2462MHz



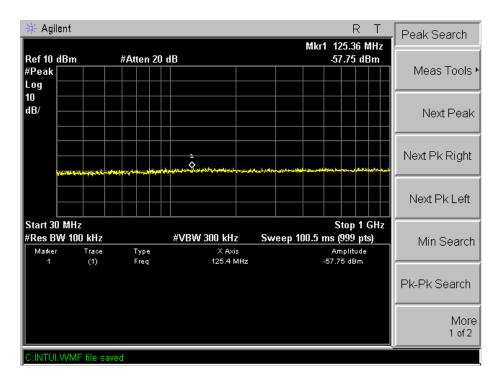


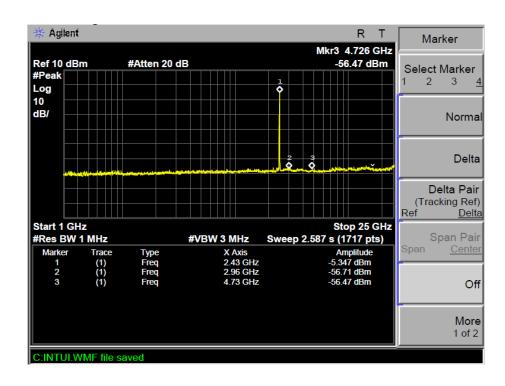
TX 802.11g Channel Low 2412MHz



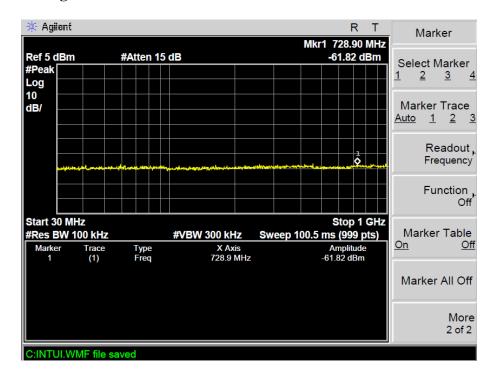


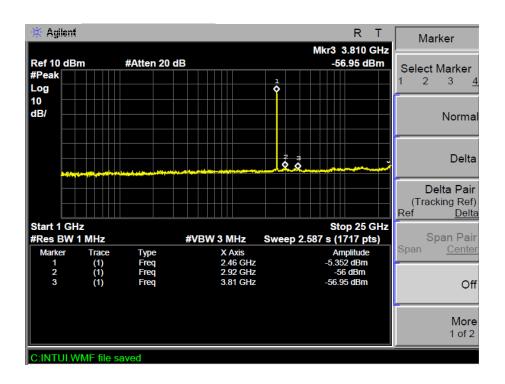
TX 802.11g Channel Middle 2437MHz



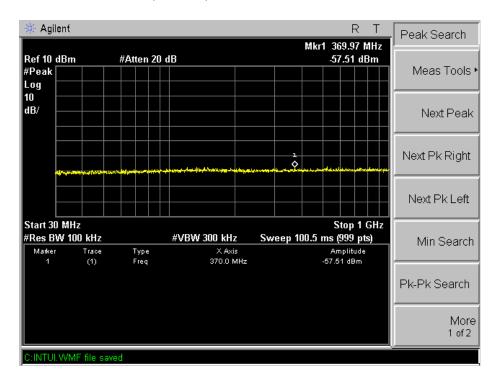


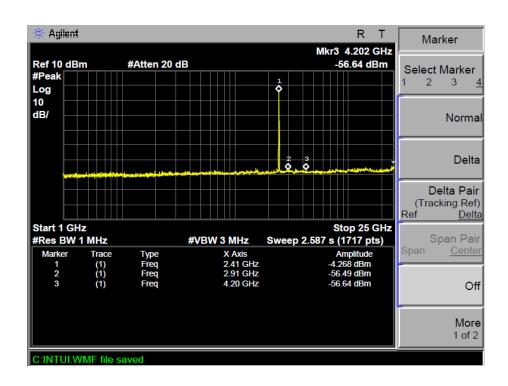
TX 802.11g Channel High 2462MHz



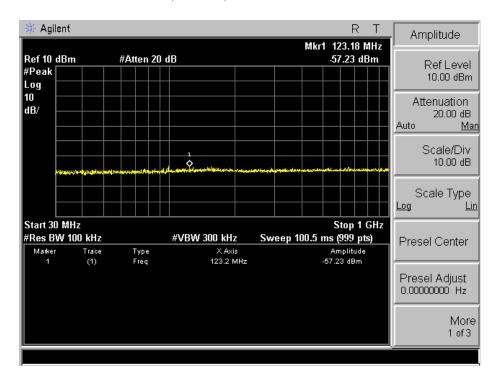


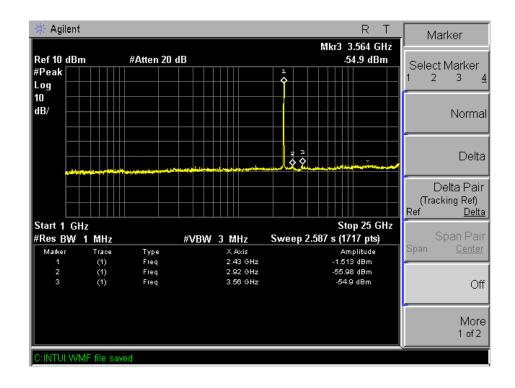
TX 802.11n Channel Low 2412MHz (20MHz)



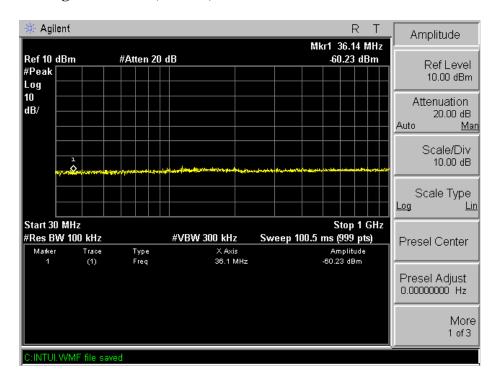


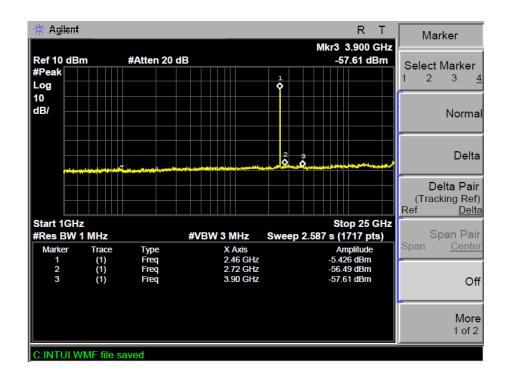
TX 802.11n Channel Middle 2437MHz (20MHz)



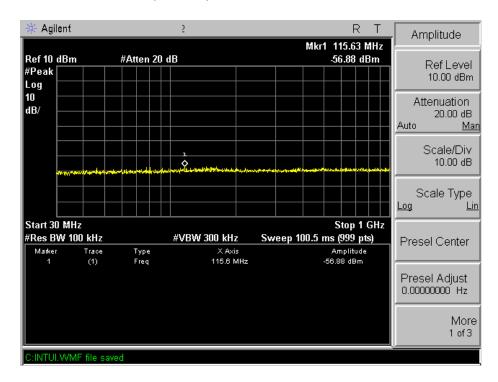


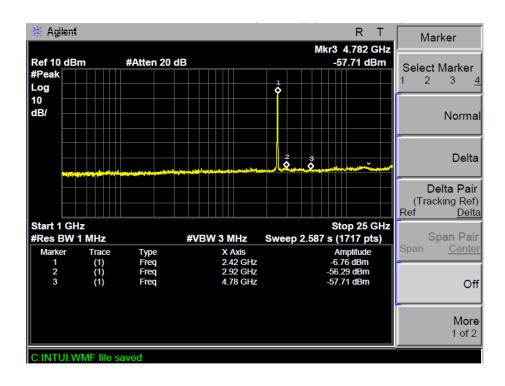
TX 802.11n Channel High 2462MHz (20MHz)



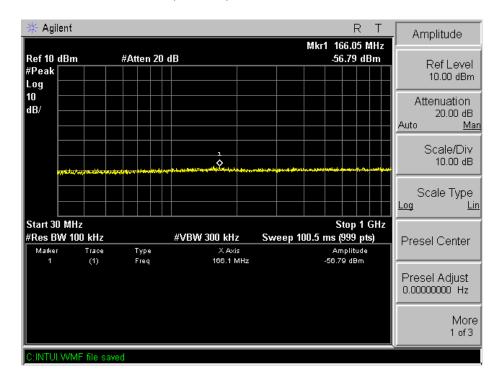


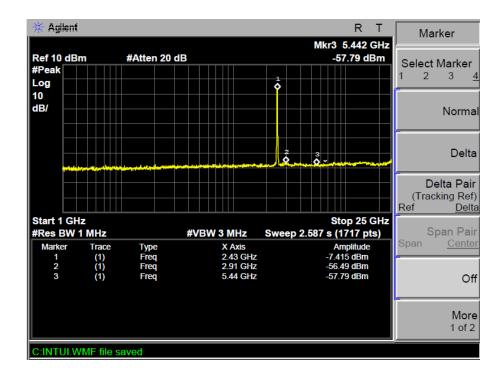
TX 802.11n Channel Low 2422MHz (40MHz)



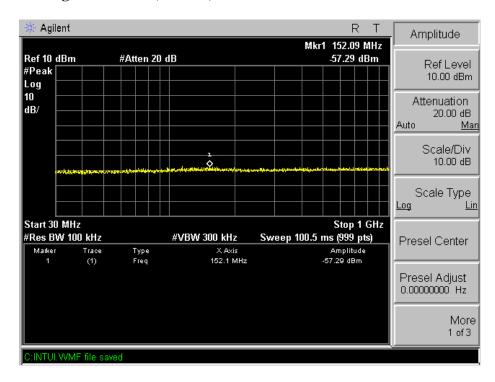


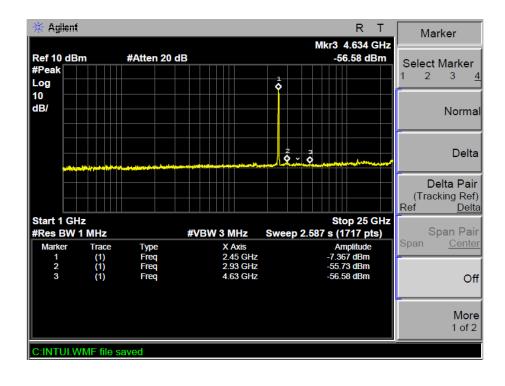
TX 802.11n Channel Middle 2437MHz (40MHz)





TX 802.11n Channel High 2452MHz (40MHz)





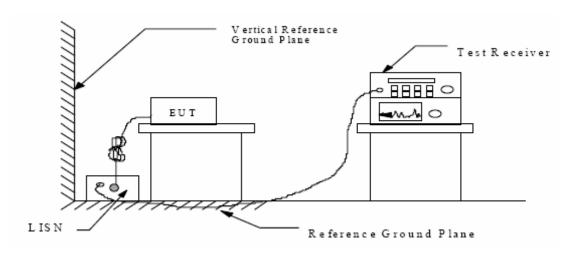
11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and simulators



11.1.2.Shielding Room Test Setup Diagram



11.2. The Emission Limit

11.2.1.Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency	Limit dB(μV)				
(MHz)	Quasi-peak Level	Average Level			
0.15 - 0.50	66.0 - 56.0 *	56.0 – 46.0 *			
0.50 - 5.00	56.0	46.0			
5.00 - 30.00	60.0	50.0			

^{*} Decreases with the logarithm of the frequency.

11.3.Configuration of EUT on Measurement

The equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.4. Operating Condition of EUT

- 11.4.1. Setup the EUT and simulator as shown as Section 11.1.
- 11.4.2. Turn on the power of all equipment.
- 11.4.3.Let the EUT work in (Charging) mode measure it.

11.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

11.6.Power Line Conducted Emission Measurement Results

CONDUCTED EMISSION STANDARD FCC PART 15 B

Kid s Tablet M/N:AppStar GX EUT:

Manufacturer: Conny Operating Condition: Operation

Test Site: 1#Shielding Room

Ricky Operator:

120V/60Hz Test Specification: N

Comment: Report No:ATE20131919 Start of Test: 9/29/2013 / 12:52:30PM

SCAN TABLE: "V 150K-30MHz fin"

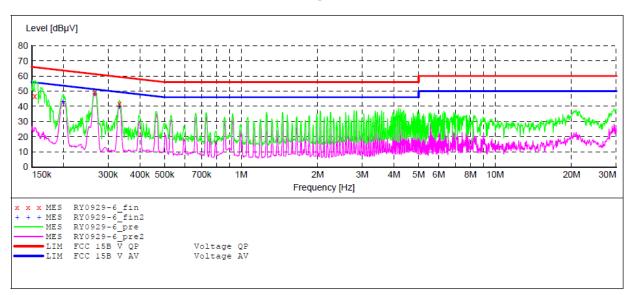
_SUB_STD_VTERM2 1.70 Short Description:

Stop Step Start Detector Meas. ΙF Transducer

Width Time Bandw.

Frequency Frequency 150.0 kHz 30.0 MHz 4.5 kHz NSLK8126 2008 QuasiPeak 1.0 s 9 kHz

Average



MEASUREMENT RESULT: "RY0929-6 fin"

9/29/2013 12:	55PM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
0.154251	46.90	11.5	66	18.9	QP	N	GND
0.265468	49.30	12.0	61	12.0	QP	N	GND
0.331971	41.60	12.2	59	17.8	QP	N	GND

MEASUREMENT RESULT: "RY0929-6 fin2"

9/29/2013 12	2:55PM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
0.199152	43.20	11.7	54	10.4	AV	N	GND
0.265468	48.60	12.0	51	2.7	AV	N	GND
0.331971	40.10	12.2	49	9.3	AV	N	GND

CONDUCTED EMISSION STANDARD FCC PART 15 B

Kid s Tablet M/N:AppStar GX EUT:

Manufacturer: Conny Operating Condition: Operation

Test Site: 1#Shielding Room

Operator: Ricky

Test Specification: L 120V/60Hz

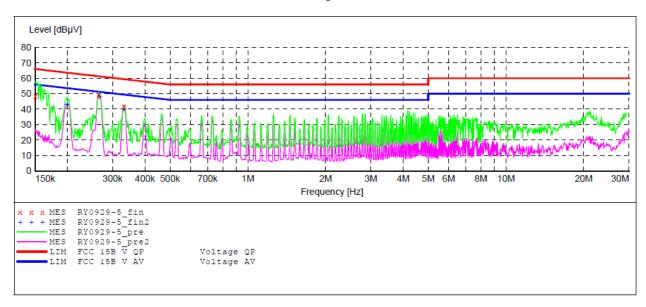
Report No:ATE20131919 Comment: Start of Test: 9/29/2013 / 12:49:32PM

SCAN TABLE: "V 150K-30MHz fin" Short Description: _SUB_S _SUB_STD_VTERM2 1.70

Stop Start Step Detector Meas. IF Transducer Width Bandw. Frequency Frequency Time

150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008

Average



MEASUREMENT RESULT: "RY0929-5 fin"

9/29/2013 12:51PM

	y Level z dBuV			_	Detector	Line	PE
0.150600 0.264410	0 48.50 0 49.20 1 41.70	11.5 12.0	66 61	17.5 12.1	QP	L1 L1 L1	GND

MEASUREMENT RESULT: "RY0929-5 fin2"

9/29/2013 12:51PM

Frequency Le MHz d	vel Transo BµV dE		_	Detector	Line	PE
0.199949 43 0.266530 48 0.331971 40	.40 12.0	51	2.8	AV	L1 L1 L1	GND GND

12.ANTENNA REQUIREMENT

12.1.The Requirement

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

12.2.Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.

