

Global United Technology Services Co., Ltd.

Report No.: GTSE15080162002

FCC REPORT

Applicant: Yuko Technology Co., Ltd.

Address of Applicant: 6th Floor, A9 building, TianRui Industrial Park, FuYuan 1st

Road, FuYong Town, Bao'an District, ShenZhen

Equipment Under Test (EUT)

Product Name: 8" tablet PC

Model No.: \$853, U807

FCC ID: 2ADQN-S853

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2014

Date of sample receipt: August 27, 2015

Date of Test: August 28-September 02, 2015

Date of report issued: September 06, 2015

Test Result: PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the GTS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	September 06, 2015	Original

Prepared By:	Zolward.Pan	Date:	September 06, 2015
	Project Engineer		
Check By:	hank. yan	Date:	September 06, 2015
	Reviewer		



3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
- 1210001	-
3 CONTENTS	3
4 TEST SUMMARY	4
4.1 MEASUREMENT UNCERTAINTY	
5 GENERAL INFORMATION	5
5.1 CLIENT INFORMATION	
5.2 GENERAL DESCRIPTION OF EUT	
5.3 TEST MODE	
5.4 DESCRIPTION OF SUPPORT UNITS	
5.5 TEST FACILITY	
5.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER	
6 TEST INSTRUMENTS LIST	8
7 TEST RESULTS AND MEASUREMENT DATA	9
7.1 ANTENNA REQUIREMENT	
7.2 CONDUCTED EMISSIONS	
7.3 RADIATED EMISSION METHOD	
7.3.1 Field Strength of The Fundamental Signal	
7.3.2 Spurious emissions	
7.3.3 Bandedge emissions 7.4 20pB Occupy Bandwidth	
8 TEST SETUP PHOTO	
9 EUT CONSTRUCTIONAL DETAILS	24



Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203	Pass
AC Power Line Conducted Emission	15.207	Pass
Field strength of the fundamental signal	15.249 (a)	Pass
Spurious emissions	15.249 (a) (d)/15.209	Pass
Band edge	15.249 (d)/15.205	Pass
20dB Occupied Bandwidth	15.215 (c)	Pass

Pass: The EUT complies with the essential requirements in the standard.

Remark: Test according to ANSI C63.10 2013 and ANSI C63.4: 2014

4.1 Measurement Uncertainty

Test Item	Frequency Range	Measurement Uncertainty	Notes
Radiated Emission	9kHz ~ 30MHz	± 4.34dB	(1)
Radiated Emission	30MHz ~ 1000MHz	± 4.24dB	(1)
Radiated Emission	1GHz ~ 26.5GHz	± 4.68dB	(1)
AC Power Line Conducted Emission	0.15MHz ~ 30MHz	± 3.45dB	(1)
Note (1): The measurement unce	ertainty is for coverage factor of k	=2 and a level of confidence of	95%.



5 General Information

5.1 Client Information

Applicant:	Yuko Technology Co., Ltd.
Address of Applicant:	6th Floor, A9 building, TianRui Industrial Park, FuYuan 1st Road,
	FuYong Town,Bao'an District,ShenZhen
Manufacturer:	Yuko Technology Co., Ltd.
Address of Manufacturer:	6th Floor, A9 building, TianRui Industrial Park, FuYuan 1st Road,
	FuYong Town,Bao'an District,ShenZhen

5.2 General Description of EUT

Product Name:	8" tablet PC
Model No.:	S853, U807
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	79
Channel separation:	1MHz
Modulation type:	GFSK, Pi/4QPSK, 8DPSK
Antenna Type:	Integral antenna
Antenna gain:	2.0dBi (declare by Applicant)
Power supply:	Adapter: Model No.: FJ-SW0502000UA Input: AC 100-240V, 50/60Hz, 0.35A Max Output: DC 5V, 2000mA Or DC 3.8V 4400mAh Li-ion Battery



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	21	2422MHz	41	2442MHz	61	2462MHz
2	2403MHz	22	2423MHz	42	2443MHz	62	2463MHz
			:				:
19	2420MHz	39	2440MHz	59	2460MHz	79	2480MHz
20	2421MHz	40	2441MHz	60	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2441MHz
The Highest channel	2480MHz



5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: The test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

Per-test mode.

We have verified the construction and function in typical operation, The EUT was placed on three different polar directions; i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:

Axis	Х	Y	Z
Field Strength(dBuV/m)	94.67	95.03	94.24

Final Test Mode:

The EUT was tested in GFSK, π /4QPSK, 8DPSK modulation, and found the GFSK modulation is the worst case.

According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup":

Y axis (see the test setup photo)

5.4 Description of Support Units

None

5.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC —Registration No.: 600491

Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fuly described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. Registration 600491, June 28, 2013.

• Industry Canada (IC) —Registration No.: 9079A-2

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China

Tel: 0755-27798480 Fax: 0755-27798960

5.7 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd.

Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



6 Test Instruments list

Radi	Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Mar. 28 2015	Mar. 27 2016	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	Spectrum Analyzer	Agilent	E4440A	GTS533	Jun. 30 2015	Jun. 29 2016	
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jun. 30 2015	Jun. 29 2016	
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Jun. 30 2015	Jun. 29 2016	
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	Jun. 26 2015	Jun. 25 2016	
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 27 2015	Mar. 26 2016	
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 28 2015	Mar. 27 2016	
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2015	Mar. 27 2016	
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2015	Mar. 27 2016	
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2015	Mar. 27 2016	
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jun. 30 2015	Jun. 29 2016	
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jun. 30 2015	Jun. 29 2016	
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Jun. 26 2015	Jun. 25 2016	
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016	

Cond	Conducted Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)	
1	Shielding Room	ZhongYu Electron	7.0(L)x3.0(W)x3.0(H)	GTS264	Jun. 30 2015	Jun. 29 2016	
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jun. 30 2015	Jun. 29 2016	
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jun. 30 2015	Jun. 29 2016	
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jun. 30 2015	Jun. 29 2016	
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jun. 30 2015	Jun. 29 2016	
6	Coaxial Cable	GTS	N/A	GTS227	Jun. 30 2015	Jun. 29 2016	
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	

Gen	General used equipment:											
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)						
1	Barometer	ChangChun	DYM3	GTS257	July 07 2015	July 06 2016						



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203

15.203 requirement:

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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integral antenna, the best case gain of the antenna is 2dBi





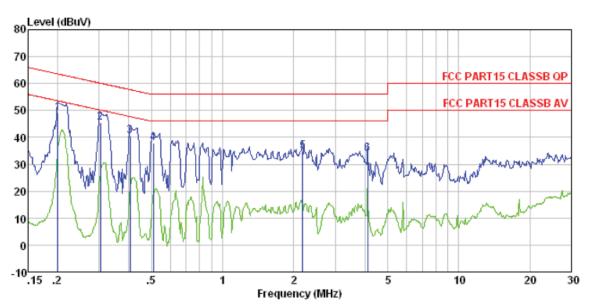
7.2 Conducted Emissions

Test Requirement:	FCC Part15 C Section 15.207	,									
Test Method:	ANSI C63.10:2013										
Test Frequency Range:	150KHz to 30MHz										
Class / Severity:	Class B										
Receiver setup:	RBW=9KHz, VBW=30KHz, St	weep time=auto									
Limit:		Limit (d	BuV)								
	Frequency range (MHz)	Quasi-peak	Average								
	0.15-0.5	66 to 56*	56 to 46*								
	0.5-5	56	46								
	5-30 60 50										
	* Decreases with the logarithn	n of the frequency.	_								
Test setup:	Reference Plane	• •									
	Remark E.U.T Remark E.U.T Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m										
Test procedure:	The EUT and simulators ar line impedance stabilization 50ohm/50uH coupling impe	n network (L.I.S.N.). Thedance for the measuri	is provides a ng equipment.								
	 The peripheral devices are LISN that provides a 50ohr termination. (Please refer to photographs). 	n/50uH coupling imped	ance with 50ohm								
	3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.										
Test Instruments:	Refer to section 6.0 for details	3									
Test mode:	Refer to section 5.3 for details	3									
Test results:	Pass										



Measurement data

Line:



Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Job No. : 1620RF

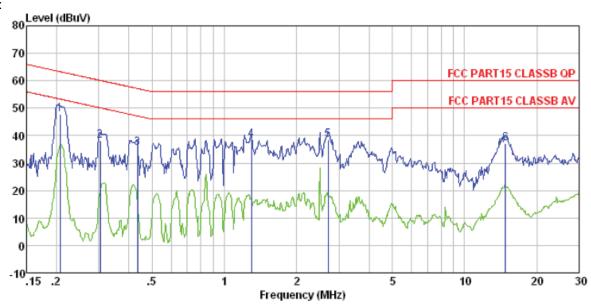
Test mode : Bluetooth 3.0 mode

Test Engineer: Song

COL	Distinct.	_					_		
		Read	LISN	Cable		Limit	Over		
	Fred	Level	Factor	Loss	Level	Line	Limit	Remark	
	1104	LOVOI	1 40 (01	LODD	LCVCI	21110	LIMI	TOHOL II	
	MHz	dBu∀	dB	d₿	dBuV	dBu∀	d₿		
1	0.201	48.68	0.14	0.13	48 GE	63 59	-14 63	OP	
Τ.									
2	0.303	45.11	0.11	0.10	45.32	60.15	-14.83	QP	
3	0.406	40.24	0.11	0.11	40.46	57, 73	-17.27	ΩP	
4	0.510	37.70	0.12	0.11	37. 93	56.UU	-18.07	Ų٢	
5	2, 178	34, 58	0.12	0.15	34, 85	56, 00	-21.15	ΩP	
6	4.114	33.47	0.20	0.15	33.82	56.00	-22.18	QP	



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 1620RF

Test mode : Bluetooth3.0 mode

Test Engineer: Song

	Freq	Read	LISN Factor				Over Limit	Remark	
	MHz	dBuV	dB	dB	dBuV	dBuV	dB		_
1 2			0.06		38.22	60.15	-21.93	QP	
3 4 5	1.296 2.707		0.09 0.10		38. 35 38. 33	56.00 56.00	-17.65 -17.67	QP QP	
6	14, 828	36, 48	0. 33	0. 22	37. 03	60. 00	-22.97	ΩP	

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss
- 4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.



7.3 Radiated Emission Method

7.3 Radiated Emission Me	3 Radiated Emission Method										
Test Requirement:	FCC Part15 C S	Section 15.20	9								
Test Method:	ANSI C63.10:20	013									
Test Frequency Range:	30MHz to 25GH	łz									
Test site:	Measurement D	istance: 3m									
Receiver setup:	Frequency	Detector	RBW	VBW	Remark						
	30MHz- 1GHz	Quasi-peal	120KHz	300KHz	Quasi-peak Value						
	Above 1GHz	Peak	1MHz	3MHz	Peak Value						
	Above IGHZ	Peak	1MHz	10Hz	Average Value						
Limit:	Freque	ency	Limit (dBu\		Remark						
(Field strength of the	2400MHz-24	183.5MHz	94.		Average Value						
fundamental signal)			114	.00	Peak Value						
Limit:	Frequency Limit (dBuV/m @3m) Remark										
(Spurious Emissions)	30MHz-88MHz 40.00 Quasi-peak Value 88MHz-216MHz 43.50 Quasi-peak Value										
		Quasi-peak Value									
	216MHz-9 960MHz-	Quasi-peak Value Quasi-peak Value									
			54. 54.		Average Value						
	Above 1	GHz	74.		Peak Value						
Limit: (band edge)	harmonics, sha	ll be attenuat to the genera	ed by at least al radiated en	50 dB belo	bands, except for w the level of the s in Section 15.209,						
Test setup:	EUT	3m 4m 4m 0.8m 1m		Sea	arch enna						



Report No.: GTSE15080162002 Antenna Tower Horn Antenna Spectrum Analyzer Table Test Procedure: 1. The EUT was placed on the top of a rotating table 1.5m above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, guasi-peak or average method as specified and then reported in a data sheet. Test Instruments: Refer to section 6.0 for details Test mode: Refer to section 5.3 for details Test results: **Pass**

Measurement data:



7.3.1 Field Strength of The Fundamental Signal

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	95.97	27.58	5.39	34.01	94.93	114.00	-19.07	Vertical
2402.00	93.84	27.58	5.39	34.01	92.80	114.00	-21.20	Horizontal
2441.00	96.08	27.48	5.43	33.96	95.03	114.00	-18.97	Vertical
2441.00	93.90	27.48	5.43	33.96	92.85	114.00	-21.15	Horizontal
2480.00	95.54	27.52	5.47	33.92	94.61	114.00	-19.39	Vertical
2480.00	93.43	27.52	5.47	33.92	92.50	114.00	-21.50	Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
2402.00	85.92	27.58	5.39	34.01	84.88	94.00	-9.12	Vertical
2402.00	83.93	27.58	5.39	34.01	82.89	94.00	-11.11	Horizontal
2441.00	86.07	27.48	5.43	33.96	85.02	94.00	-8.98	Vertical
2441.00	83.75	27.48	5.43	33.96	82.70	94.00	-11.30	Horizontal
2480.00	85.70	27.52	5.47	33.92	84.77	94.00	-9.23	Vertical
2480.00	83.16	27.52	5.47	33.92	82.23	94.00	-11.77	Horizontal

No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, China Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



7.3.2 Spurious emissions

■ Below 1GHz

- Delow I	0112							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
40.56	24.73	15.58	0.67	30.04	10.94	40.00	-29.06	Vertical
94.43	24.55	14.75	1.15	29.72	10.73	43.50	-32.77	Vertical
234.17	23.39	13.83	2.04	29.52	9.74	46.00	-36.26	Vertical
394.86	24.10	16.97	2.83	29.53	14.37	46.00	-31.63	Vertical
627.27	23.87	20.55	3.83	29.27	18.98	46.00	-27.02	Vertical
824.60	24.45	22.33	4.55	29.17	22.16	46.00	-23.84	Vertical
36.77	24.64	14.77	0.63	30.06	9.98	40.00	-30.02	Horizontal
55.22	25.91	15.00	0.82	29.96	11.77	40.00	-28.23	Horizontal
97.46	23.34	15.00	1.17	29.71	9.80	43.50	-33.70	Horizontal
192.42	29.35	12.56	1.80	29.23	14.48	43.50	-29.02	Horizontal
333.69	32.62	15.92	2.54	29.81	21.27	46.00	-24.73	Horizontal
665.80	23.63	20.69	3.97	29.23	19.06	46.00	-26.94	Horizontal



■ Above 1GHz

Test channel:	Lowest channel
---------------	----------------

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	38.57	31.78	8.60	32.09	46.86	74.00	-27.14	Vertical
7206.00	32.67	36.15	11.65	32.00	48.47	74.00	-25.53	Vertical
9608.00	32.21	37.95	14.14	31.62	52.68	74.00	-21.32	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	43.11	31.78	8.60	32.09	51.40	74.00	-22.60	Horizontal
7206.00	34.53	36.15	11.65	32.00	50.33	74.00	-23.67	Horizontal
9608.00	31.75	37.95	14.14	31.62	52.22	74.00	-21.78	Horizontal
12010.00	*			_		74.00		Horizontal
14412.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4804.00	27.14	31.78	8.60	32.09	35.43	54.00	-18.57	Vertical
7206.00	21.21	36.15	11.65	32.00	37.01	54.00	-16.99	Vertical
9608.00	20.21	37.95	14.14	31.62	40.68	54.00	-13.32	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	31.51	31.78	8.60	32.09	39.80	54.00	-14.20	Horizontal
7206.00	23.47	36.15	11.65	32.00	39.27	54.00	-14.73	Horizontal
9608.00	20.04	37.95	14.14	31.62	40.51	54.00	-13.49	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. "*", means this data is the too weak instrument of signal is unable to test.



Test channel: Middle channel

Peak value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	37.65	31.85	8.67	32.12	46.05	74.00	-27.95	Vertical
7323.00	32.06	36.37	11.72	31.89	48.26	74.00	-25.74	Vertical
9764.00	31.67	38.35	14.25	31.62	52.65	74.00	-21.35	Vertical
12205.00	*					74.00		Vertical
14646.00	*					74.00		Vertical
4882.00	42.00	31.85	8.67	32.12	50.40	74.00	-23.60	Horizontal
7323.00	33.84	36.37	11.72	31.89	50.04	74.00	-23.96	Horizontal
9764.00	31.13	38.35	14.25	31.62	52.11	74.00	-21.89	Horizontal
12205.00	*					74.00		Horizontal
14646.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4882.00	26.41	31.85	8.67	32.12	34.81	54.00	-19.19	Vertical
7323.00	20.71	36.37	11.72	31.89	36.91	54.00	-17.09	Vertical
9764.00	19.77	38.35	14.25	31.62	40.75	54.00	-13.25	Vertical
12205.00	*					54.00		Vertical
14646.00	*					54.00		Vertical
4882.00	30.68	31.85	8.67	32.12	39.08	54.00	-14.92	Horizontal
7323.00	22.91	36.37	11.72	31.89	39.11	54.00	-14.89	Horizontal
9764.00	19.53	38.35	14.25	31.62	40.51	54.00	-13.49	Horizontal
12205.00	*					54.00		Horizontal
14646.00	*					54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. "*", means this data is the too weak instrument of signal is unable to test.



Test channel: Highest channel

Peak value:

	1							
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	36.68	31.93	8.73	32.16	45.18	74.00	-28.82	Vertical
7440.00	31.41	36.59	11.79	31.78	48.01	74.00	-25.99	Vertical
9920.00	31.10	38.81	14.38	31.88	52.41	74.00	-21.59	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	40.84	31.93	8.73	32.16	49.34	74.00	-24.66	Horizontal
7440.00	33.11	36.59	11.79	31.78	49.71	74.00	-24.29	Horizontal
9920.00	30.46	38.81	14.38	31.88	51.77	74.00	-22.23	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	25.68	31.93	8.73	32.16	34.18	54.00	-19.82	Vertical
7440.00	20.22	36.59	11.79	31.78	36.82	54.00	-17.18	Vertical
9920.00	19.33	38.81	14.38	31.88	40.64	54.00	-13.36	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	29.85	31.93	8.73	32.16	38.35	54.00	-15.65	Horizontal
7440.00	22.35	36.59	11.79	31.78	38.95	54.00	-15.05	Horizontal
9920.00	19.01	38.81	14.38	31.88	40.32	54.00	-13.68	Horizontal
12400.00	*					54.00		Horizontal
14880.00	*					54.00		Horizontal

Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 3. "*", means this data is the too weak instrument of signal is unable to test.



7.3.3 Bandedge emissions

All of the restriction bands were tested, and only the data of worst case was exhibited.

Peak value:				·				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	44.17	27.59	5.38	30.18	46.96	74.00	-27.04	Horizontal
2400.00	61.14	27.58	5.39	30.18	63.93	74.00	-10.07	Horizontal
2390.00	44.84	27.59	5.38	30.18	47.63	74.00	-26.37	Vertical
2400.00	63.31	27 58	5 39	30 18	66 10	74 00	-7 90	Vertical

Lowest channel

Average value:

Test channel:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2390.00	34.43	27.59	5.38	30.18	37.22	54.00	-16.78	Horizontal
2400.00	45.74	27.58	5.39	30.18	48.53	54.00	-5.47	Horizontal
2390.00	34.46	27.59	5.38	30.18	37.25	54.00	-16.75	Vertical
2400.00	47.51	27.58	5.39	30.18	50.30	54.00	-3.70	Vertical

l est channel:

Peak value:

								·
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	46.42	27.53	5.47	29.93	49.49	74.00	-24.51	Horizontal
2500.00	45.35	27.55	5.49	29.93	48.46	74.00	-25.54	Horizontal
2483.50	47.48	27.53	5.47	29.93	50.55	74.00	-23.45	Vertical
2500.00	46.47	27.55	5.49	29.93	49.58	74.00	-24.42	Vertical

Average value:

Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
2483.50	37.27	27.53	5.47	29.93	40.34	54.00	-13.66	Horizontal
2500.00	35.09	27.55	5.49	29.93	38.20	54.00	-15.80	Horizontal
2483.50	38.59	27.53	5.47	29.93	41.66	54.00	-12.34	Vertical
2500.00	35.11	27.55	5.49	29.93	38.22	54.00	-15.78	Vertical

Remark:

^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor



7.4 20dB Occupy Bandwidth

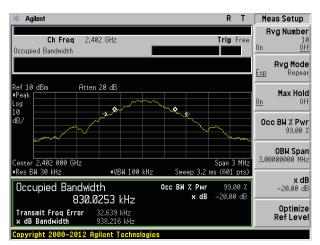
Test Requirement:	FCC Part15 C Section 15.249/15.215
Test Method:	ANSI C63.10:2013
Limit:	Operation Frequency range 2400MHz~2483.5MHz
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Measurement Data

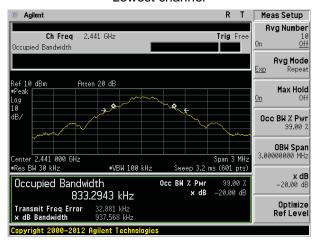
Test channel	20dB bandwidth(MHz)	Result
Lowest	0.938	Pass
Middle	0.938	Pass
Highest	0.944	Pass

Test plot as follows:

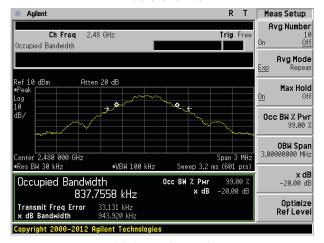




Lowest channel



Middle channel

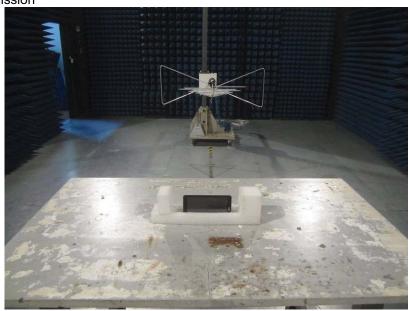


Highest channel



8 Test Setup Photo

Radiated Emission







Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTSE15080162001

----- End -----