

Global United Technology Services Co., Ltd.

Report No.: GTSE15030032104

FCC Report (Bluetooth)

Applicant: AOC

Address of Applicant: 8F-3, No. 166, Jian 1 Road, Zhonghe Dist., New Taipei City

23511, Taiwan

Equipment Under Test (EUT)

Product Name: Smart phone

Model No.: E40

FCC ID: 2AEB5-E40

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247:2014

Date of sample receipt: March 27, 2015

Date of Test: March 30-April 09, 2015

Date of report issued: April 10, 2015

Test Result: PASS *

Authorized Signature:



Robinson Lo 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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^{*} In the configuration tested, the EUT complied with the standards specified above.



2 Version

Version No.	Date	Description
00	April 10, 2015	Original

Prepared By:	Edward. Par	Date:	April 10, 2015	
	Project Engineer			
Check By:	hank. yan	Date:	April 10, 2015	
	Reviewer			



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4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209	Pass

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



5 General Information

5.1 Client Information

Applicant:	AOC
Address of Applicant:	8F-3, No. 166, Jian 1 Road, Zhonghe Dist., New Taipei City 23511, Taiwan
Manufacturer:	New Flying
Address of Manufacturer:	10/F Block C,Tairan Building,Tairan 8 Road, Chegongmiao, District, Shenzhen City, Guangdong Province, China

5.2 General Description of EUT

Product Name:	Smart phone
Model No.:	E40
Operation Frequency:	2402MHz~2480MHz
Channel Numbers:	40
Channel Separation:	2MHz
Modulation Type:	GFSK
Antenna Type:	PIFA antenna
Antenna Gain:	1dBi (declare by Applicant)
Power Supply:	Model No.: YHD-GH002S
	Input: AC 100-240V, 50/60Hz, 0.3A
	Output: DC 5.0V, 1A
	DC 3.7V Li-ion Battery



Operation Frequency each of channel								
Channel Frequency Channel Frequency Channel Frequency Channel Frequency								
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz	
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz	
•			• !	• !			• !	
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz	
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz	

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	2440MHz
The Highest channel	2480MHz

No. 300 Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102 Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



5.3 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode			
Remark: During the test,	Remark: During the test, the new battery was used.			

5.4 Description of Support Units

None

5.5 Test Facility

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

• CNAS —Registration No.: CNAS L5775

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• 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.

Address: Room 301-309, 3th Floor, Block A, Huafeng Jinyuan Business Building, No. 300 Laodong Industrial Zone Viving Boad, Boom District, Shorthon 518103

Industrial Zone, Xixiang Road, Baoan District, Shenzhen 518102 Tel: 0755-27798480

Fax: 0755-27798960

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. 27 2015	Mar. 26 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	Dec. 4 2014	Dec. 3 2015		
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	July 01 2014	June 30 2015		
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	July 01 2014	June 30 2015		
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	June 27 2014	June 26 2015		
7	Horn Antenna	ETS-LINDGREN	3160	GTS217	Mar. 28 2014	Mar. 27 2015		
8	EMI Test Software	AUDIX	E3	N/A	N/A	N/A		
9	Coaxial Cable	GTS	N/A	GTS213	Mar. 27 2015	Mar. 26 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	July 01 2014	June 30 2015		
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	July 01 2014	June 30 2015		
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	June 27 2014	June 26 2015		
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2015	Mar. 27 2016		

Con	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	Sep. 07 2013	Sep. 06 2015		
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	July 01 2014	June 30 2015		
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	July 01 2014	June 30 2015		
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	July 01 2014	June 30 2015		
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	July 01 2014	June 30 2015		
6	Coaxial Cable	GTS	N/A	GTS227	July 01 2014	June 30 2015		
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 08 2014	July 07 2015		



7 Test results and Measurement Data

7.1 Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

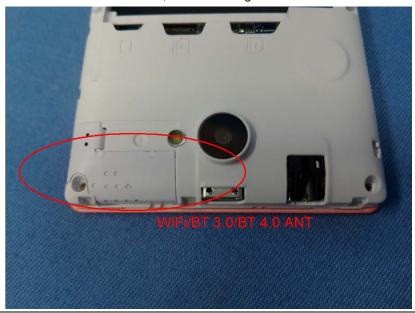
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

E.U.T Antenna:

The antenna is PIFA antenna, the best case gain of the antenna is 1dBi





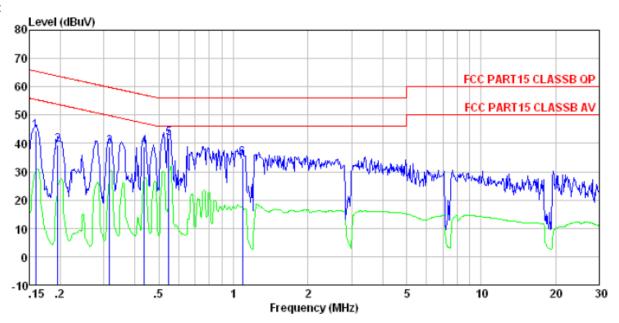
7.2 Conducted Emissions

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 (dBuV)						
	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						
	AUX Equipment E.U.T Filter AC power EMI Receiver Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m						
Test procedure:	The E.U.T and simulators a line impedance stabilization 500hm/50uH coupling impedance.	n network (L.I.S.N.). Thedance for the measuri	nis provides a ng equipment.				
2. The peripheral devices are also connected to the main power throu LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup an photographs).							
	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						
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. : 0321RF

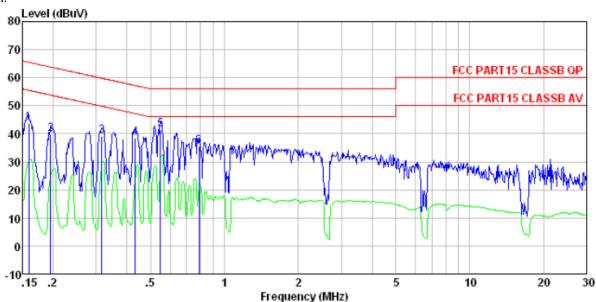
Test mode : Bluetooth 4.0 mode

Test Engineer: Mike

	Freq		LISN Factor			Limit Line	Over Limit	Remark
_	MHz	dBu₹	dB	dB	dBuV	dBu₹	dB	
1 2 3 4 5 6	0. 437 0. 549	38. 77 38. 68	0.14 0.11 0.12 0.13	0.12 0.13 0.10 0.11 0.11 0.13	39. 51 38. 98 38. 91 41. 64	63.80 59.80 57.11 56.00	-24. 29 -20. 82 -18. 20 -14. 36	QP QP QP QP



Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Job No. : 0321RF

Test mode : Bluetooth 4.0 mode

Test Engineer: Mike

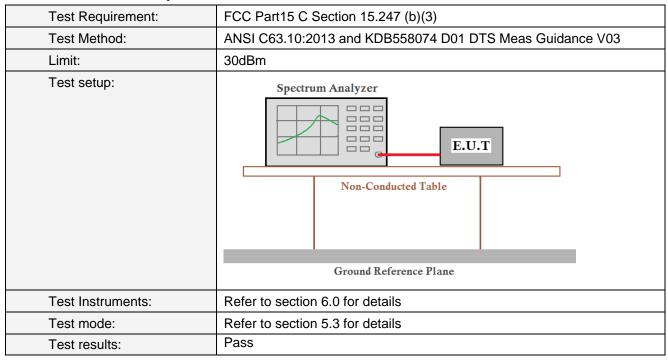
	Freq		LISN Factor				Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	₫B	
1 2 3 4	0.317 0.433	38. 87 38. 20	0.07 0.06 0.06	0.10 0.11	39. 68 39. 03 38. 37	63.80 59.80 57.20	-24. 12 -20. 77 -18. 83	QP QP QP
5 6	0. 549 0. 788	41.28 35.33						-

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 Conducted Output Power



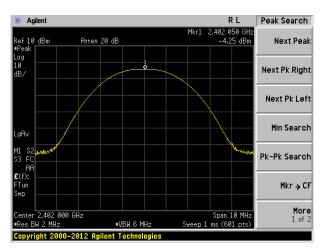
Measurement Data

Test channel	Peak Output Power (dBm)	Limit(dBm)	Result
Lowest	-4.25		
Middle	Middle -3.40		Pass
Highest	-3.34		

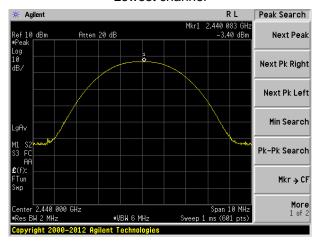
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



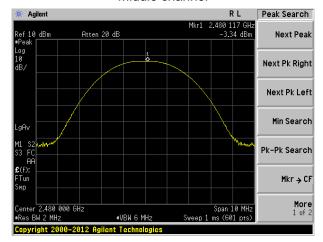
Test plot as follows:



Lowest channel



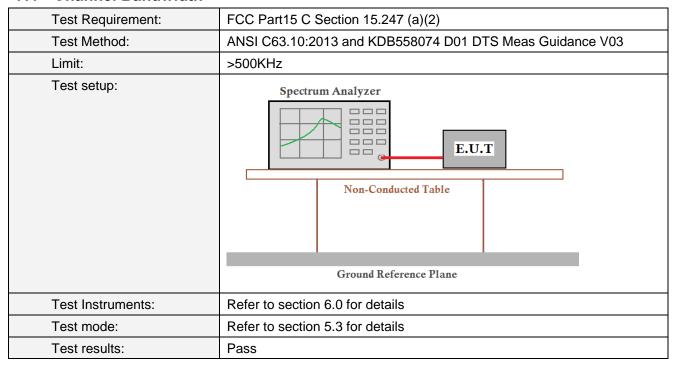
Middle channel



Highest channel



7.4 Channel Bandwidth



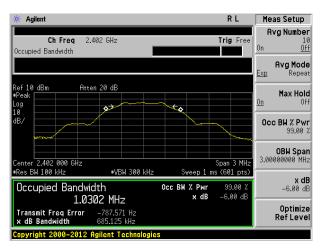
Measurement Data

Test channel	Channel Bandwidth (KHz)	Limit(KHz)	Result
Lowest	685.125		
Middle	686.364	>500	Pass
Highest	692.955		

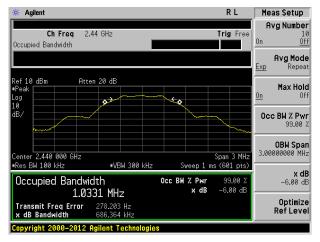
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



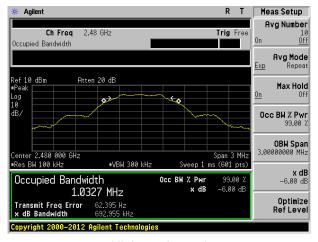
Test plot as follows:



Lowest channel



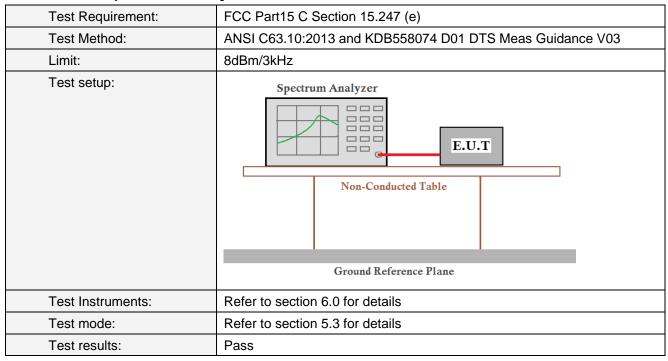
Middle channel



Highest channel



7.5 Power Spectral Density



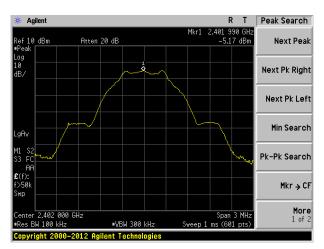
Measurement Data

Test channel	Power Spectral Density (dBm)	Limit(dBm/3kHz)	Result
Lowest	-5.17		
Middle	-4.30	8.00	Pass
Highest	-4.24		

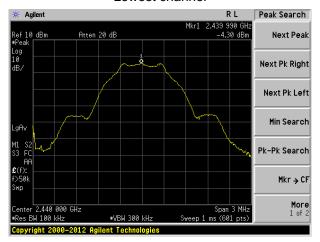
Telephone: +86 (0) 755 2779 8480 Fax: +86 (0) 755 2779 8960



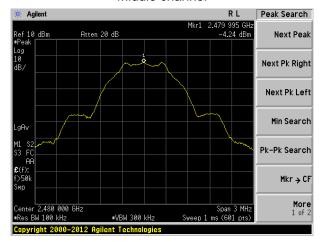
Test plot as follows:



Lowest channel



Middle channel



Highest channel

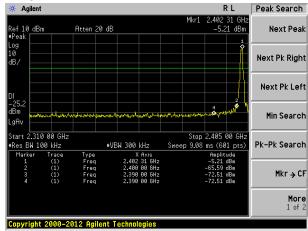


7.6 Band edges

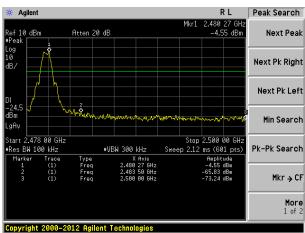
7.6.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)				
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03				
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.				
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				

Test plot as follows:







Highest channel



7.6.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209 and 15.205						
Test Method:	ANSI C63.10:20	013					
Test Frequency Range:	All of the restric	t bands were t	ested, only	the worst ba	and's (2310MHz to		
	2500MHz) data	was showed.					
Test site:	Measurement D	istance: 3m					
Receiver setup:	Frequency	Detector	RBW	VBW	Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak		
	Above IGIIZ	RMS	1MHz	3MHz	Average		
Limit:	Freque	ency	Limit (dBuV/	m @3m)	Value		
	Above 1	GH ₇	54.0	-	Average		
	710070	OTIZ	74.0	0	Peak		
Test setup:	EUT 3m < Turn Table v.1.5m	Horn Antenna Spectrum Analyzer					
Test Procedure:	 The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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, quasipeak or average method as specified and then reported in a data sheet. The radiation measurements are performed in X, Y, Z axis positioning And found the X axis positioning which it is worse case, only the test worst case mode is recorded in the report. 						
Test Instruments:	Refer to section						
Test mode:	Refer to section	5.3 for details					
Test results:	Pass						

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Measurement data:

Remark: The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.

Test channel: Lowest	
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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	40.36	27.59	5.38	30.18	43.15	74.00	-30.85	Horizontal
2400.00	56.79	27.58	5.39	30.18	59.58	74.00	-14.42	Horizontal
2390.00	40.67	27.59	5.38	30.18	43.46	74.00	-30.54	Vertical
2400.00	58.56	27.58	5.39	30.18	61.35	74.00	-12.65	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
2390.00	31.48	27.59	5.38	30.18	34.27	54.00	-19.73	Horizontal
2400.00	42.57	27.58	5.39	30.18	45.36	54.00	-8.64	Horizontal
2390.00	31.25	27.59	5.38	30.18	34.04	54.00	-19.96	Vertical
2400.00	43.98	27.58	5.39	30.18	46.77	54.00	-7.23	Vertical

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	42.17	27.53	5.47	29.93	45.24	74.00	-28.76	Horizontal
2500.00	41.82	27.55	5.49	29.93	44.93	74.00	-29.07	Horizontal
2483.50	42.59	27.53	5.47	29.93	45.66	74.00	-28.34	Vertical
2500.00	42.58	27.55	5.49	29.93	45.69	74.00	-28.31	Vertical

Average value:

Avelage va	iac.							
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	34.28	27.53	5.47	29.93	37.35	54.00	-16.65	Horizontal
2500.00	32.64	27.55	5.49	29.93	35.75	54.00	-18.25	Horizontal
2483.50	35.28	27.53	5.47	29.93	38.35	54.00	-15.65	Vertical
2500.00	32.35	27.55	5.49	29.93	35.46	54.00	-18.54	Vertical

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.

Global United Technology Services Co., Ltd.

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7.7 Spurious Emission

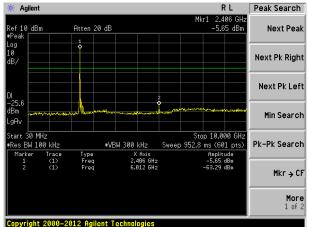
7.7.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)						
Test Method:	ANSI C63.10:2013 and KDB558074 D01 DTS Meas Guidance V03						
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.						
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						

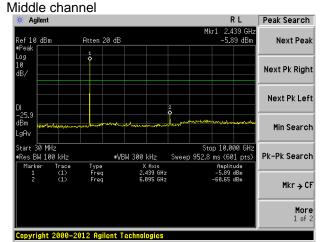


Test plot as follows:

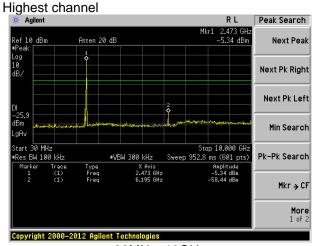
Lowest channel



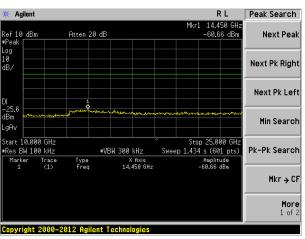
30MHz~10GHz



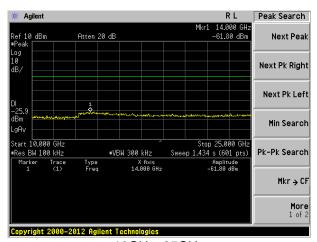
30MHz~10GHz



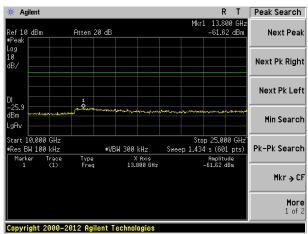
30MHz~10GHz



10GHz~25GHz



10GHz~25GHz



10GHz~25GHz



7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209									
Test Method:	ANSI C63.10:2013									
Test Frequency Range:	30MHz to 25GHz									
Test site:	Measurement Dis	Measurement Distance: 3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Value					
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak					
	Above 1GHz	Peak	1MHz	3MHz	Peak					
	Above IGHZ	RMS	1MHz	3MHz	Average					
Limit:	Frequen	су	Limit (dBuV/	/m @3m)	Value					
	30MHz-88	MHz	40.0	0	Quasi-peak					
	88MHz-216	6MHz	43.5	0	Quasi-peak					
	216MHz-96	0MHz	46.0	0	Quasi-peak					
	960MHz-1	GHz	54.0	0	Quasi-peak					
	Above 40)U	54.0	0	Average					
	Above 10	PHZ	74.0	0	Peak					
	Ground Plane Above 1GHz Turn Table V 1.5m A	4m	F Sp	Antenna Tower Search Antenna RF Test Receiver Antenna Tower Antenna Tower Amplifier						



Test Procedure:	 The EUT was placed on the top of a rotating table (0.8 meters for below 1GHz and 1.5 meters for above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
	The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
	 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.
	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, quasi- peak or average method as specified and then reported in a data sheet.
	7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.3 for details
Test results:	Pass

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.



Measurement Data

■ Below 1GHz

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
32.29	46.95	14.32	0.58	30.09	31.76	40.00	-8.24	Vertical
49.88	45.21	15.26	0.77	30.00	31.24	40.00	-8.76	Vertical
87.42	45.96	13.18	1.09	29.76	30.47	40.00	-9.53	Vertical
216.02	42.81	13.07	1.93	29.36	28.45	46.00	-17.55	Vertical
408.95	31.87	17.26	2.90	29.48	22.55	46.00	-23.45	Vertical
833.32	29.77	22.42	4.58	29.17	27.60	46.00	-18.40	Vertical
55.03	36.61	15.02	0.82	29.96	22.49	40.00	-17.51	Horizontal
82.07	43.04	11.28	1.05	29.79	25.58	40.00	-14.42	Horizontal
109.41	41.31	14.30	1.28	29.64	27.25	43.50	-16.25	Horizontal
192.42	45.45	12.56	1.80	29.23	30.58	43.50	-12.92	Horizontal
258.33	41.51	14.05	2.16	29.71	28.01	46.00	-17.99	Horizontal
793.40	30.11	21.96	4.43	29.20	27.30	46.00	-18.70	Horizontal

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■ Above 1GHz

Test channel	:			Lov	vest						
Peak value:	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	37.25	31.78	8.60	32.09	45.54	74.00	-28.46	Vertical			
7206.00	31.79	36.15	11.65	32.00	47.59	74.00	-26.41	Vertical			
9608.00	31.43	37.95	14.14	31.62	51.90	74.00	-22.10	Vertical			
12010.00	*					74.00		Vertical			
14412.00	*					74.00		Vertical			
4804.00	41.52	31.78	8.60	32.09	49.81	74.00	-24.19	Horizontal			
7206.00	33.54	36.15	11.65	32.00	49.34	74.00	-24.66	Horizontal			
9608.00	30.85	37.95	14.14	31.62	51.32	74.00	-22.68	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	26.07	31.78	8.60	32.09	34.36	54.00	-19.64	Vertical
7206.00	20.48	36.15	11.65	32.00	36.28	54.00	-17.72	Vertical
9608.00	19.57	37.95	14.14	31.62	40.04	54.00	-13.96	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	30.29	31.78	8.60	32.09	38.58	54.00	-15.42	Horizontal
7206.00	22.65	36.15	11.65	32.00	38.45	54.00	-15.55	Horizontal
9608.00	19.29	37.95	14.14	31.62	39.76	54.00	-14.24	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. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test channe	l:			Mid	dle			
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	36.89	31.85	8.67	32.12	45.29	74.00	-28.71	Vertical
7323.00	31.56	36.37	11.72	31.89	47.76	74.00	-26.24	Vertical
9764.00	31.23	38.35	14.25	31.62	52.21	74.00	-21.79	Vertical
12205.00	*					74.00		Vertical
14646.00	*					74.00		Vertical
4882.00	41.10	31.85	8.67	32.12	49.50	74.00	-24.50	Horizontal
7323.00	33.28	36.37	11.72	31.89	49.48	74.00	-24.52	Horizontal
9764.00	30.61	38.35	14.25	31.62	51.59	74.00	-22.41	Horizontal
12205.00	*					74.00		Horizontal
14646.00	*					74.00		Horizontal
Average val	ue:							
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	25.80	31.85	8.67	32.12	34.20	54.00	-19.80	Vertical
7323.00	20.30	36.37	11.72	31.89	36.50	54.00	-17.50	Vertical
9764.00	19.40	38.35	14.25	31.62	40.38	54.00	-13.62	Vertical
12205.00	*					54.00		Vertical
14646.00	*					54.00		Vertical
4882.00	29.98	31.85	8.67	32.12	38.38	54.00	-15.62	Horizontal
7323.00	22.44	36.37	11.72	31.89	38.64	54.00	-15.36	Horizontal
9764.00	19.10	38.35	14.25	31.62	40.08	54.00	-13.92	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. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test channel	:			1	Highest			
Peak value:			_			_		
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)		Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	35.94	31.93	8.73	32.16	44.44	74.00	-29.56	Vertical
7440.00	30.93	36.59	11.79	31.78	47.53	74.00	-26.47	Vertical
9920.00	30.66	38.81	14.38	31.88	51.97	74.00	-22.03	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	39.95	31.93	8.73	32.16	48.45	74.00	-25.55	Horizontal
7440.00	32.56	36.59	11.79	31.78	49.16	74.00	-24.84	Horizontal
9920.00	29.96	38.81	14.38	31.88	51.27	74.00	-22.73	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal
Average val	ue:					•	•	
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Pream Facto (dB)	. I Level	Limit Line (dBuV/m)	Over Limit (dB)	polarization
4960.00	25.06	31.93	8.73	32.16	33.56	54.00	-20.44	Vertical
7440.00	19.80	36.59	11.79	31.78	36.40	54.00	-17.60	Vertical
9920.00	18.96	38.81	14.38	31.88	40.27	54.00	-13.73	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	29.14	31.93	8.73	32.16	37.64	54.00	-16.36	Horizontal
7440.00	21.88	36.59	11.79	31.78	38.48	54.00	-15.52	Horizontal
9920.00	18.58	38.81	14.38	31.88	39.89	54.00	-14.11	Horizontal
12400.00	*					54.00		Horizontal
14880.00	*					54.00		Horizontal

Remark:

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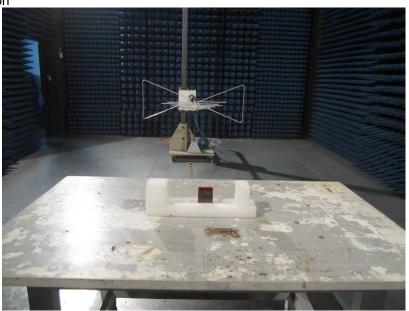
^{1.} Final Level =Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

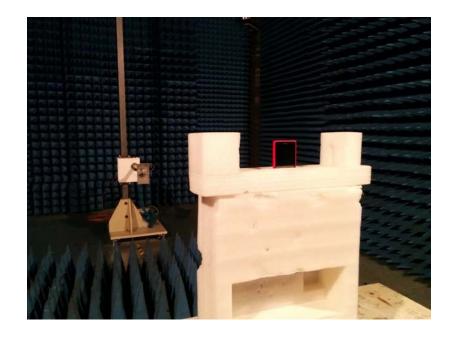
^{2. &}quot;*", means this data is the too weak instrument of signal is unable to test.



8 Test Setup Photo

Radiated Emission







Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTSE15030032101

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