

Global United Technology Services Co., Ltd.

Report No.: GTS201612000061F02

FCC REPORT

Applicant: Shenzhen Firstview Electronic Co. Ltd.

Address of Applicant: 3-4/F, Block B, Huafeng 1st Technology Zone, Baoan Main

Road, Baoan District, Shenzhen, China

Equipment Under Test (EUT)

Product Name: 8 inch tablet

Model No.: HT0800IM32, VTA0802IM16, MI847

FCC ID: YW5HT0800IM32

FCC CFR Title 47 Part 15 Subpart C Section 15.249:2016 Applicable standards:

Date of sample receipt: December 16, 2016

Date of Test: December 16-21, 2016

Date of report issued: December 21, 2016

PASS * Test Result:

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

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

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2 Version

Version No.	Date	Description
00	December 21, 2016	Original

Prepared By:	Samely	Date:	December 21, 2016
	Project Engineer		
Check By:	Andy w	Date:	December 21, 2016

Reviewer



3 Contents

			Page
1	COVE	R PAGE	1
2	VERS	ion	2
_			
3	CONT	TENTS	3
4	TEST	SUMMARY	4
	4.1	MEASUREMENT UNCERTAINTY	4
5	GENE	RAL INFORMATION	5
	5.1	CLIENT INFORMATION	5
	5.2	GENERAL DESCRIPTION OF EUT	5
		TEST MODE	
		DESCRIPTION OF SUPPORT UNITS	
		TEST FACILITY	
		TEST LOCATIONOTHER INFORMATION REQUESTED BY THE CUSTOMER	
6	TEST	INSTRUMENTS LIST	8
7	TEST	RESULTS AND MEASUREMENT DATA	9
		ANTENNA REQUIREMENT	
		CONDUCTED EMISSIONS	
		RADIATED EMISSION METHOD	
	7.3.1	Field Strength of The Fundamental Signal	
	7.3.2	Spurious emissions	
	7.3.3 7.4 2	Bandedge emissions20dB Occupy Bandwidth	
8	TEST	SETUP PHOTO	23
9	EUT (CONSTRUCTIONAL DETAILS	24



4 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 9	95%.



5 General Information

5.1 Client Information

Applicant:	Shenzhen Firstview Electronic Co. Ltd.
Address of Applicant:	3-4/F, Block B, Huafeng 1st Technology Zone, Baoan Main Road, Baoan District, Shenzhen, China

5.2 General Description of EUT

<u> </u>	
Product Name:	8 inch tablet
Model No.:	HT0800IM32, VTA0802IM16, MI847
Test Model No.:	HT0800IM32
Remark: All above models are The only difference is the model	identical in the same PCB layout, interior structure and electrical circuits. I name for commercial purpose.
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation type:	GFSK
Antenna Type:	Integrity antenna
Antenna gain:	2dBi(declare by Applicant)
Power supply:	AC/DC Adapter
	Model: HLT-003-0502000U
	Input: AC 100-240V 50/60Hz 0.35A
	Output: DC 5V, 2A
	Or
	DC 3.7V, 4000mAh, Li-ion Battery 14.8Wh



Operation F	Operation Frequency each of channel						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz 11		2422MHz	21	2442MHz	31	2462MHz
2	2404MHz 12	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



5.3 Test mode

Transmitting mode Keep the EUT in continuously transmitting mode

Remark: During the test, 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	Υ	Z
ĺ	Field Strength(dBuV/m)	89.01	90.69	88.54

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 22, 2016.

• 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, August 15, 2016

5.6 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

Address: No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102

Tel: 0755-27798480 Fax: 0755-27798960

5.7 Other Information Requested by the Customer

None.

Global United Technology Services Co., Ltd.

No. 301-309, 3/F., Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 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	9.0(L)*6.0(W)* 6.0(H)	GTS250	July. 03 2015	July. 02 2020	
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A	
3	ESU EMI Test Receiver	R&S	ESU26	GTS203	June. 29 2016	June. 28 2017	
4	Loop Antenna	Zhinan	ZN30900A	GTS534	June. 29 2016	June. 28 2017	
5	BiConiLog Antenna	SCHWARZBECK	VULB9163	GTS214	June. 29 2016	June. 28 2017	
6	Double-ridged horn antenna	SCHWARZBECK	9120D	GTS208	June. 29 2016	June. 28 2017	
7	7 Horn Antenna ETS-LINDGREN		3160-09	GTS218	June. 29 2016	June. 28 2017	
8	RF Amplifier	HP	8347A	GTS204	June. 29 2016	June. 28 2017	
9	RF Amplifier	HP	8349B	GTS206	June. 29 2016	June. 28 2017	
10	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	June. 29 2016	June. 28 2017	
11	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	June. 29 2016	June. 28 2017	
12	Universal Radio Communication tester	ROHDE&SCHWARZ	CMU 200	GTS538	June. 29 2016	June. 28 2017	
13	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
14	Coaxial Cable	GTS	N/A	GTS210	June. 29 2016	June. 28 2017	
15	Coaxial Cable	GTS	N/A	GTS211	June. 29 2016	June. 28 2017	
16	Coaxial Cable	GTS	N/A	GTS210	June. 29 2016	June. 28 2017	

Conduc	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	7.3(L)x3.1(W)x2.9(H)	GTS252	May.16 2014	May.15 2019	
2	EMI Test Receiver	R&S	ESCI 7	GTS552	June. 29 2016	June. 28 2017	
3	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	June. 29 2016	June. 28 2017	
4	Artificial Mains Network	SCHWARZBECK MESS	NSLK8127	GTS226	June. 29 2016	June. 28 2017	
5	Coaxial Cable	GTS	N/A	GTS227	June. 29 2016	June. 28 2017	
6	EMI Test Software	AUDIX	E3	N/A	N/A	N/A	
7	Thermo meter	KTJ	TA328	GTS233	June. 29 2016	June. 28 2017	

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	June. 29 2016	June. 28 2017			



7 Test results and Measurement Data

7.1 Antenna requirement

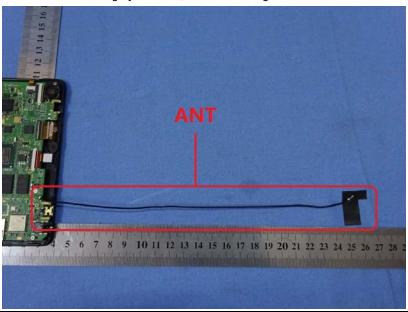
Standard requirement: FCC Part15 C Section 15.203

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 integrity antenna, the best case gain of the antenna is 2dBi





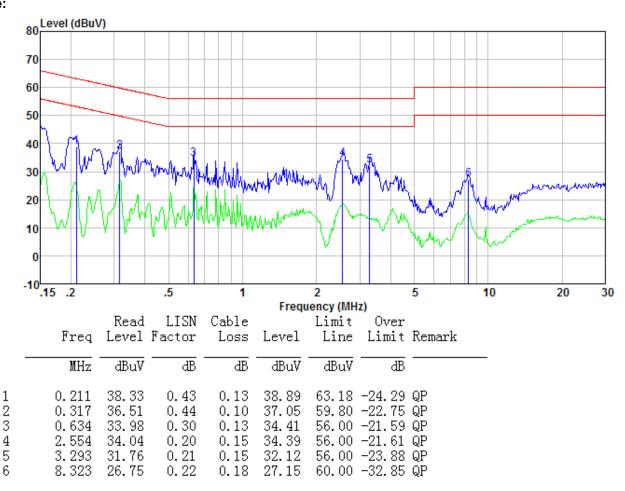
7.2 Conducted Emissions

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, Sv	weep time=auto				
Limit:	· · · · · · · · · · · · · · · · · · ·	Limit (c	IRu\/)			
Littiit.	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 are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 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					
Test results:	Pass					

Measurement data:

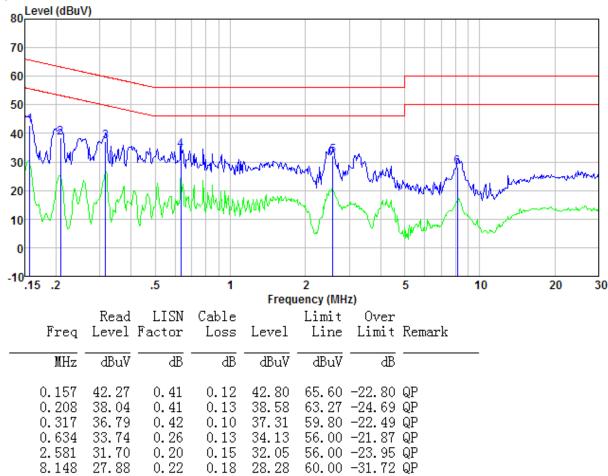


Line:





Neutral:



6 Notes:

1 2 3

4

5

- 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

1.3	Radiated Ellission Me	wiethod					
	Test Requirement:	FCC Part15 C Section 15.209					
	Test Method:	ANSI C63.10:20	013				
	Test Frequency Range:	30MHz to 25GH	Ηz				
	Test site:	Measurement D	Distance: 3m				
	Receiver setup:	Frequency	Detector	RBW	VBW	Remark	
		30MHz- 1GHz	Quasi-pea	k 120KHz	300KHz	Quasi-peak Value	
		Above 1GHz	Peak	1MHz	3MHz	Peak Value	
		Above IGHZ	Peak	1MHz	10Hz	Average Value	
	Limit:	Freque	ency	Limit (dBuV	/m @3m)	Remark	
	(Field strength of the fundamental signal)	2400MHz-24	183.5MHz	94.0	00	Average Value	
	Limit:	Freque		Limit (dBuV		Remark	
	(Spurious Emissions)	30MHz-8		40.0		Quasi-peak Value	
		88MHz-2		43.5 46.0		Quasi-peak Value	
			216MHz-960MHz 960MHz-1GHz		00	Quasi-peak Value Quasi-peak Value	
				54.0		Average Value	
		Above	Above 1GHz		00	Peak Value	
	Limit: (band edge)	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.20 whichever is the lesser attenuation.			w the level of the		
	Test setup:	Below 1GHz Company to the second sec				fier	
		Above 1GHz					



Report No.: GTS201612000061F02 < 1m ... 4m > EUT Turn Table <150cm; Preamplifier+ Receiver+ Test Procedure: 1. The EUT was placed on the top of a rotating table (0.8m 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. 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, quasi-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	91.56	27.58	5.39	34.01	90.52	114.00	-23.48	Vertical
2402.00	86.08	27.58	5.39	34.01	85.04	114.00	-28.96	Horizontal
2440.00	91.74	27.48	5.43	33.96	90.69	114.00	-23.31	Vertical
2440.00	85.75	27.48	5.43	33.96	84.70	114.00	-29.30	Horizontal
2480.00	90.55	27.52	5.47	33.92	89.62	114.00	-24.38	Vertical
2480.00	84.73	27.52	5.47	33.92	83.80	114.00	-30.20	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	81.63	27.58	5.39	34.01	80.59	94.00	-13.41	Vertical
2402.00	76.50	27.58	5.39	34.01	75.46	94.00	-18.54	Horizontal
2440.00	81.87	27.48	5.43	33.96	80.82	94.00	-13.18	Vertical
2440.00	75.19	27.48	5.43	33.96	74.14	94.00	-19.86	Horizontal
2480.00	80.94	27.52	5.47	33.92	80.01	94.00	-13.99	Vertical
2480.00	75.42	27.52	5.47	33.92	74.49	94.00	-19.51	Horizontal

^{1.} REMARK: RBW 3MHz VBW 3MHz , Peak detector is for PK value , RMS detector is for AV value



7.3.2 Spurious emissions

■ Below 1GHz

_ Bolow 1	= Bolow Total2							
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
91.51	33.79	14.24	1.12	29.74	19.41	43.50	-24.09	Vertical
134.57	40.36	10.56	1.47	29.49	22.90	43.50	-20.60	Vertical
222.18	34.69	13.25	1.97	29.41	20.50	46.00	-25.50	Vertical
522.72	30.50	19.05	3.40	29.30	23.65	46.00	-22.35	Vertical
603.54	28.13	20.46	3.73	29.30	23.02	46.00	-22.98	Vertical
845.09	25.30	22.55	4.63	29.15	23.33	46.00	-22.67	Vertical
46.34	27.90	15.46	0.73	30.01	14.08	40.00	-25.92	Horizontal
83.23	33.99	11.72	1.06	29.78	16.99	40.00	-23.01	Horizontal
143.33	34.24	10.22	1.53	29.44	16.55	43.50	-26.95	Horizontal
283.98	33.35	14.75	2.29	29.90	20.49	46.00	-25.51	Horizontal
383.93	34.31	16.68	2.78	29.57	24.20	46.00	-21.80	Horizontal
890.73	25.99	23.00	4.82	29.11	24.70	46.00	-21.30	Horizontal



Above 1GHz

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	36.91	31.78	8.60	32.09	45.20	74.00	-28.80	Vertical
7206.00	31.57	36.15	11.65	32.00	47.37	74.00	-26.63	Vertical
9608.00	31.24	37.95	14.14	31.62	51.71	74.00	-22.29	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	41.12	31.78	8.60	32.09	49.41	74.00	-24.59	Horizontal
7206.00	33.29	36.15	11.65	32.00	49.09	74.00	-24.91	Horizontal
9608.00	30.62	37.95	14.14	31.62	51.09	74.00	-22.91	Horizontal
12010.00	*					74.00		Horizontal
14412.00	*					74.00		Horizontal

Average value:

7ttolago tal	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	25.80	31.78	8.60	32.09	34.09	54.00	-19.91	Vertical
7206.00	20.30	36.15	11.65	32.00	36.10	54.00	-17.90	Vertical
9608.00	19.40	37.95	14.14	31.62	39.87	54.00	-14.13	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	29.98	31.78	8.60	32.09	38.27	54.00	-15.73	Horizontal
7206.00	22.45	36.15	11.65	32.00	38.25	54.00	-15.75	Horizontal
9608.00	19.10	37.95	14.14	31.62	39.57	54.00	-14.43	Horizontal
12010.00	*					54.00		Horizontal
14412.00	*					54.00		Horizontal

Remark:

^{2.} Final Level = Receiver Read level + Antenna Factor + Cable Loss - Preamplifier Factor

^{3. &}quot;*", means this data is the too weak instrument of signal is unable to test.



Test channel	Test channel: Middle							
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
4880.00	37.02	31.85	8.67	32.12	45.42	74.00	-28.58	Vertical
7320.00	31.64	36.37	11.72	31.89	47.84	74.00	-26.16	Vertical
9760.00	31.30	38.35	14.25	31.62	52.28	74.00	-21.72	Vertical
12200.00	*					74.00		Vertical
14640.00	*					74.00		Vertical
4880.00	41.24	31.85	8.67	32.12	49.64	74.00	-24.36	Horizontal
7320.00	33.37	36.37	11.72	31.89	49.57	74.00	-24.43	Horizontal
9760.00	30.69	38.35	14.25	31.62	51.67	74.00	-22.33	Horizontal
12200.00	*					74.00		Horizontal
14640.00	*					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
4880.00	25.90	31.85	8.67	32.12	34.30	54.00	-19.70	Vertical
7320.00	20.37	36.37	11.72	31.89	36.57	54.00	-17.43	Vertical
9760.00	19.46	38.35	14.25	31.62	40.44	54.00	-13.56	Vertical
12200.00	*					54.00		Vertical
14640.00	*					54.00		Vertical
4880.00	30.09	31.85	8.67	32.12	38.49	54.00	-15.51	Horizontal
7320.00	22.52	36.37	11.72	31.89	38.72	54.00	-15.28	Horizontal
9760.00	19.17	38.35	14.25	31.62	40.15	54.00	-13.85	Horizontal
12200.00	*					54.00		Horizontal
ı		I	I	i	I		1	i

Remark:

14640.00

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. "*", means this data is the too weak instrument of signal is unable to test.

Project No.: GTS201612000061

54.00

Horizontal



Test channel	l:			Hig	hest			
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	36.41	31.93	8.73	32.16	44.91	74.00	-29.09	Vertical
7440.00	31.24	36.59	11.79	31.78	47.84	74.00	-26.16	Vertical
9920.00	30.94	38.81	14.38	31.88	52.25	74.00	-21.75	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	40.51	31.93	8.73	32.16	49.01	74.00	-24.99	Horizontal
7440.00	32.91	36.59	11.79	31.78	49.51	74.00	-24.49	Horizontal
9920.00	30.28	38.81	14.38	31.88	51.59	74.00	-22.41	Horizontal
12400.00	*					74.00		Horizontal
14880.00	*					74.00		Horizontal
Average val	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	25.45	31.93	8.73	32.16	33.95	54.00	-20.05	Vertical
7440.00	20.06	36.59	11.79	31.78	36.66	54.00	-17.34	Vertical
9920.00	19.19	38.81	14.38	31.88	40.50	54.00	-13.50	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	29.59	31.93	8.73	32.16	38.09	54.00	-15.91	Horizontal
7440.00	22.18	36.59	11.79	31.78	38.78	54.00	-15.22	Horizontal
9920.00	18.85	38.81	14.38	31.88	40.16	54.00	-13.84	Horizontal
12400.00	*					54.00		Horizontal

Remark:

14880.00

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

Project No.: GTS201612000061

Horizontal

54.00



7.3.3 Bandedge emissions

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

	•
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
2390.00	45.62	27.59	5.38	30.18	48.41	74.00	-25.59	Horizontal
2400.00	48.80	27.58	5.39	30.18	51.59	74.00	-22.41	Horizontal
2390.00	46.43	27.59	5.38	30.18	49.22	74.00	-24.78	Vertical
2400.00	47.13	27.58	5.39	30.18	49.92	74.00	-24.08	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	35.55	27.59	5.38	30.18	38.34	54.00	-15.66	Horizontal
2400.00	34.95	27.58	5.39	30.18	37.74	54.00	-16.26	Horizontal
2390.00	35.69	27.59	5.38	30.18	38.48	54.00	-15.52	Vertical
2400.00	36.86	27.58	5.39	30.18	39.65	54.00	-14.35	Vertical

Ī	Test channel:	Highest channel
		g

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	48.05	27.53	5.47	29.93	51.12	74.00	-22.88	Horizontal
2500.00	46.70	27.55	5.49	29.93	49.81	74.00	-24.19	Horizontal
2483.50	49.35	27.53	5.47	29.93	52.42	74.00	-21.58	Vertical
2500.00	47.96	27.55	5.49	29.93	51.07	74.00	-22.93	Vertical

Average value:

- morage rando								
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	38.41	27.53	5.47	29.93	41.48	54.00	-12.52	Horizontal
2500.00	36.02	27.55	5.49	29.93	39.13	54.00	-14.87	Horizontal
2483.50	39.85	27.53	5.47	29.93	42.92	54.00	-11.08	Vertical
2500.00	36.17	27.55	5.49	29.93	39.28	54.00	-14.72	Vertical

Remark:

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



7.4 20dB Occupy Bandwidth

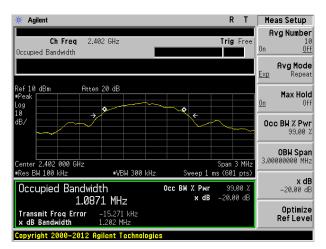
Test Requirement:	FCC Part15 C Section 15.249/15.215			
Test Method:	ANSI C63.10:2013			
Limit:	Operation Frequency range 2400MHz~2483.5MHz			
Test setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane			
Test Instruments: Refer to section 6.0 for details				
Test mode:	Refer to section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

Measurement Data

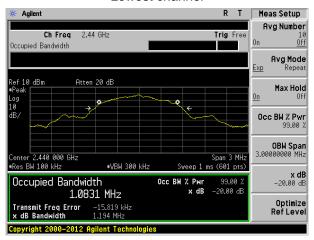
Test channel	20dB bandwidth(MHz)	Result	
Lowest	1.202	Pass	
Middle	1.194	Pass	
Highest	1.202	Pass	

Test plot as follows:

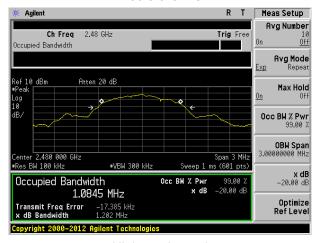




Lowest channel



Middle channel

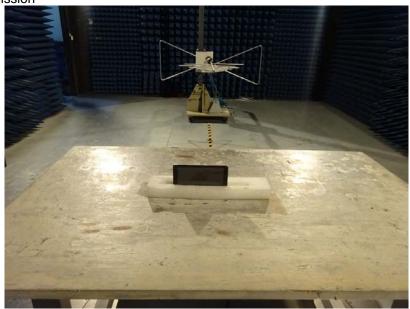


Highest channel



8 Test Setup Photo

Radiated Emission







Conducted Emission



9 EUT Constructional Details

Reference to the test report No. GTS201612000061F01

----- End -----