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Report No.: EBO1410083-E306

Page 1 of 25

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: 7 inch Tablet PC

Model No.: VTA0702, VTA0702E, M720-B

FCC ID: YW5VTA0702

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.249:2013

Date of sample receipt: October 31, 2014

Date of Test: October 31, 2014 To November 6, 2014

Date of report issued: November 6, 2014

Test Result: PASS *

Authorized Signature:

Kevin Yu 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 EBO 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.



Report No.: EBO1410083-E306 Page 2 of 25

2 Version

Version No.	Date	Description
00	November 6, 2014	Original

Prepared By:	Jason	Date:	November 6, 2014
	Project Engineer		
Check By:	Canjor	Date:	November 6, 2014
	Reviewer		



Report No.: EBO1410083-E306 Page 3 of 25

3 Contents

		Page
1	COVER PAGE	1
2	VERSION	2
3	CONTENTS	3
4	TEST SUMMARY	4
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	
	5.6 TEST LOCATION	
	5.7 OTHER INFORMATION REQUESTED BY THE CUSTOMER	
6	TEST INSTRUMENTS LIST	8
7	TEST RESULTS AND MEASUREMENT DATA	10
	7.1 ANTENNA REQUIREMENT:	
	7.2 CONDUCTED EMISSIONS	
	7.3 RADIATED EMISSION METHOD	
	7.3.1 Field Strength of The Fundamental Signal	
	7.3.3 Bandedge emissions	
	7.4 20DB Occupy Bandwidth	
8	TEST SETUP PHOTO	24
9	ELIT CONSTRUCTIONAL DETAILS	25



Report No.: EBO1410083-E306 Page 4 of 25

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.

N/A: not applicable.



Report No.: EBO1410083-E306 Page 5 of 25

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

5.2 General Description of EUT

Product Name:	7 inch Tablet PC
Model No.:	VTA0702, VTA0702E, M720-B
Remark:	The product 7 inch Tablet PC(Model:VTA0702, FCC ID:YW5VTA0702) is electrically identical with the product 7 inch Tablet PC(Model:VTA0701, FCC ID:YW5VTA0701). In that case, the data of VTA0702 is same to the data of VTA0701.
Operation Frequency:	2402MHz~2480MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation type:	GFSK
Antenna Type:	Integral Antenna
Antenna gain:	3.5dBi (declare by Applicant)
Power supply:	Adapter: Model:K-E30501500U1 Input:100-240V~,50/60Hz, 0.35A max Output: 5V——, 1500mA Or DC 3.7V Li-ion Battery



Report No.: EBO1410083-E306 Page 6 of 25

Channel lis	Channel list									
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



Report No.: EBO1410083-E306 Page 7 of 25

5.3 Test mode

Transmitting mode Keep the Bluetooth in continuously transmitting mode

Remark: 1.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	X	Υ	Z
Field Strength(dBuV/m)	95.51	99.74	96.32

Final Test Mode:

According to ANSI C63.4 standards, the test result is "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:

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: 2nd Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

5.7 Other Information Requested by the Customer

None.



Report No.: EBO1410083-E306 Page 8 of 25

6 Test Instruments list

Rad	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. 29 2013	Mar. 28 2015			
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. 5, 2013	Dec. 4 2014			
4	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Jul. 02 2014	Jul. 01 2015			
5	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	GTS214	Jul. 02 2014	Jul. 01 2015			
6	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	9120D-829	GTS208	Jul. 02 2014	Jul. 01 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. 28 2014	Mar. 27 2015			
10	Coaxial Cable	GTS	N/A	GTS211	Mar. 28 2014	Mar. 27 2015			
11	Coaxial cable	GTS	N/A	GTS210	Mar. 28 2014	Mar. 27 2015			
12	Coaxial Cable	GTS	N/A	GTS212	Mar. 28 2014	Mar. 27 2015			
13	Amplifier(100kHz-3GHz)	HP	8347A	GTS204	Jul. 02 2014	Jul. 01 2015			
14	Amplifier(2GHz-20GHz)	HP	8349B	GTS206	Jul. 02 2014	Jul. 01 2015			
15	Amplifier (18-26GHz)	Rohde & Schwarz	AFS33-18002 650-30-8P-44	GTS218	Jul. 02 2014	Jul. 01 2015			
16	Band filter	Amindeon	82346	GTS219	Mar. 28 2014	Mar. 27 2015			

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	Sep. 07 2013	Sep. 06 2015			
2	EMI Test Receiver	Rohde & Schwarz	ESCS30	GTS223	Jul. 02 2014	Jul. 01 2015			
3	10dB Pulse Limita	Rohde & Schwarz	N/A	GTS224	Jul. 02 2014	Jul. 01 2015			
4	Coaxial Switch	ANRITSU CORP	MP59B	GTS225	Jul. 02 2014	Jul. 01 2015			
5	LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	GTS226	Jul. 02 2014	Jul. 01 2015			
6	Coaxial Cable	GTS	N/A	GTS227	Jul. 02 2014	Jul. 01 2015			
7	EMI Test Software	AUDIX	E3	N/A	N/A	N/A			



Report No.: EBO1410083-E306 Page 9 of 25

Gen	General used equipment:							
Item	Test Equipment	Manufacturer	Model No.	Inventory	Cal.Date	Cal.Due date		
				No.	(mm-dd-yy)	(mm-dd-yy)		
1	Barometer	ChangChun	DYM3	GTS257	Jul. 02 2014	Jul. 01 2015		



Report No.: EBO1410083-E306

Page 10 of 25

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.

E.U.T Antenna:

The antenna is Integral antenna, the best case gain of the antenna is 3.5dBi



Report No.: EBO1410083-E306

Page 11 of 25

7.2 Conducted Emissions

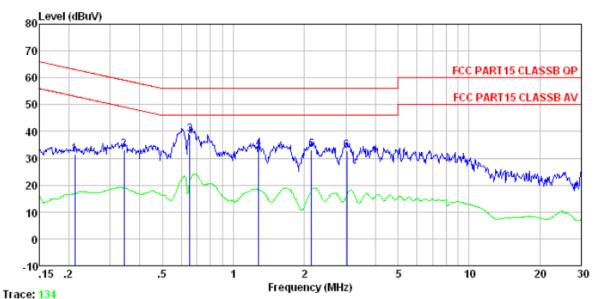
			1					
Test Requirement:	FCC Part15 C Section 15.207	7						
Test Method:	ANSI C63.4:2003							
Test Frequency Range:	150KHz to 30MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9KHz, VBW=30KHz, S	weep time=auto						
Limit:	Fragues of range (MHz)	Limit (c	dBuV)					
	Frequency range (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 logarithr	· · · · ·						
Test setup:	Reference Plane		-					
Todayada	LISN 40cm 80cm Filter AC power Equipment E.U.T Test table/Insulation plane 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 impeded. The peripheral devices are LISN that provides a 500hm termination. (Please refer the photographs). 	n network (L.I.S.N.). The edance for the measuri also connected to the m/50uH coupling imped	nis provides a ing equipment. main power through a dance 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 C63.4: 2003 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:



Report No.: EBO1410083-E306 Page 12 of 25

Test mode: Bluetooth mode		LINE
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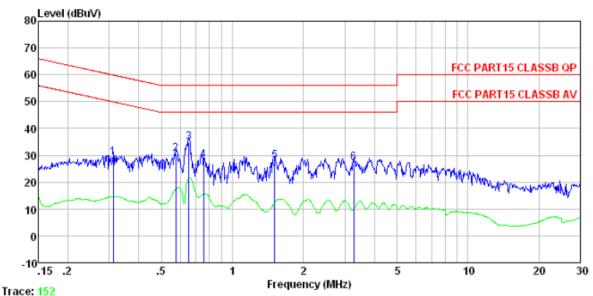
: FCC PART15 CLASSB QP LISN-2013 LINE Condition

	Freq	Level		Level			Remark	
	MHz	dBuV	dB	dBuV	dBuV	dB		
1 2 3 4 5 6	0.343 0.654 1.282 2.144	31. 13 32. 89 38. 64 33. 11 33. 03 32. 46	0.10 0.13 0.13 0.15	33. 10 38. 90 33. 36 33. 30	59.13 56.00 56.00 56.00	-17.10 -22.64 -22.70	QP QP QP QP	



Report No.: EBO1410083-E306 Page 13 of 25





Condition

: FCC PART15 CLASSB QP LISN-2013 NEUTRAL Read Cable Limit Over

	Freq	Level	Loss	Level	Line	Limit	Remark
	MHz	dBu₹	dB	dBu₹	dBu√	dB	
1 2 3 4 5	0. 576 0. 654 0. 755 1. 511	29. 17 30. 39 34. 60 28. 12 27. 76	0.12 0.13 0.13 0.14	30.58 34.80 28.32 27.99	56.00 56.00 56.00 56.00	-25. 42 -21. 20 -27. 68 -28. 01	QP QP QP QP
6	3. 276	26.97	0.15	27.25	56.00	-28.75	QP

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.



Report No.: EBO1410083-E306 Page 14 of 25

7.3 Radiated Emission Method

1.3	Radiated Ellission M	Ctiloa						
	Test Requirement:	FCC Part15 C S	Section 15.20	9				
	Test Method:	ANSI C63.4:200	03					
	Test Frequency Range:	30MHz to 25GH	łz					
	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 10112	Peak	1MHz	10Hz	Average Value		
	Limit:	Freque	ency	Limit (dBu\	//m @3m)	Remark		
	(Field strength of the	2400MHz-24	100 EMIL-	94.	00	Average Value		
	fundamental signal)	24001011 12-22	+03.3IVII IZ	114	.00	Peak Value		
		During the test, detector for pea				Hz and 10MHz. Peak value.		
	Limit:	Freque	•	Limit (dBu\	//m @3m)	Remark		
	(Spurious Emissions)	30MHz-8		40.		Quasi-peak Value		
		88MHz-2 ⁻ 216MHz-9		43.		Quasi-peak Value		
		960MHz-		46. 54.		Quasi-peak Value Quasi-peak Value		
				54.		Average Value		
		Above 1	IGHZ	74.		Peak Value		
	Limit: (band edge)	harmonics, sha	II be attenuat to the genera	ed by at leas al radiated en	50 dB belo	w bands, except for w the level of the s in Section 15.209,		
	Test setup:	Below 1GHz Antenna Tower Search Antenna RF Test Receiver Ground Plane						



Report No.: EBO1410083-E306 Page 15 of 25

	Above 1GHz
	Antenna Tower Horn Antenna Spectrum Analyzer Turn Table A A A A A A A A A A A A A A A A A A
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters 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.
	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:



Report No.: EBO1410083-E306

Page 16 of 25

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	96.95	27.58	5.39	30.18	99.74	114.00	-14.26	Vertical
2402.00	93.37	27.58	5.39	30.18	96.16	114.00	-17.84	Horizontal
2440.00	95.57	27.55	5.43	30.06	98.49	114.00	-15.51	Vertical
2440.00	91.89	27.55	5.43	30.06	94.81	114.00	-19.19	Horizontal
2480.00	95.37	27.52	5.47	29.93	98.43	114.00	-15.57	Vertical
2480.00	92.10	27.52	5.47	29.93	95.16	114.00	-18.84	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	84.85	27.58	5.39	30.18	87.64	94.00	-6.36	Vertical
2402.00	82.00	27.58	5.39	30.18	84.79	94.00	-9.21	Horizontal
2440.00	83.24	27.55	5.43	30.06	86.16	94.00	-7.84	Vertical
2440.00	80.25	27.55	5.43	30.06	83.17	94.00	-10.83	Horizontal
2480.00	81.94	27.52	5.47	29.93	85.00	94.00	-9.00	Vertical
2480.00	78.62	27.52	5.47	29.93	81.68	94.00	-12.32	Horizontal



Report No.: EBO1410083-E306

Page 17 of 25

7.3.2 Spurious emissions

■ 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
38.75	39.69	15.25	0.65	32.06	23.53	40.00	-16.47	Vertical
53.69	38.62	15.07	0.81	31.95	22.55	40.00	-17.45	Vertical
138.39	40.12	10.30	1.50	31.94	19.98	43.50	-23.52	Vertical
237.48	41.10	13.99	2.06	32.16	24.99	46.00	-21.01	Vertical
462.35	37.64	17.65	3.14	31.68	26.75	46.00	-19.25	Vertical
860.04	37.46	22.69	4.69	31.23	33.61	46.00	-12.39	Vertical
41.57	37.93	15.57	0.68	32.04	22.14	40.00	-17.86	Horizontal
101.64	37.86	15.02	1.21	31.77	22.32	43.50	-21.18	Horizontal
184.49	45.80	12.08	1.76	32.10	27.54	43.50	-15.96	Horizontal
237.48	44.75	13.99	2.06	32.16	28.64	46.00	-17.36	Horizontal
547.10	37.61	19.51	3.51	31.30	29.33	46.00	-16.67	Horizontal
878.32	37.49	22.87	4.77	31.21	33.92	46.00	-12.08	Horizontal



Report No.: EBO1410083-E306 Page 18 of 25

■ 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	47.17	31.78	8.60	32.09	55.46	74.00	-18.54	Vertical
7206.00	31.74	36.15	11.65	32.00	47.54	74.00	-26.46	Vertical
9608.00	31.39	37.95	14.14	31.62	51.86	74.00	-22.14	Vertical
12010.00	*					74.00		Vertical
14412.00	*					74.00		Vertical
4804.00	49.03	31.78	8.60	32.09	57.32	74.00	-16.68	Horizontal
7206.00	33.48	36.15	11.65	32.00	49.28	74.00	-24.72	Horizontal
9608.00	30.80	37.95	14.14	31.62	51.27	74.00	-22.73	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	36.01	31.78	8.60	32.09	44.30	54.00	-9.70	Vertical
7206.00	20.44	36.15	11.65	32.00	36.24	54.00	-17.76	Vertical
9608.00	19.53	37.95	14.14	31.62	40.00	54.00	-14.00	Vertical
12010.00	*					54.00		Vertical
14412.00	*					54.00		Vertical
4804.00	36.71	31.78	8.60	32.09	45.00	54.00	-9.00	Horizontal
7206.00	22.61	36.15	11.65	32.00	38.41	54.00	-15.59	Horizontal
9608.00	19.25	37.95	14.14	31.62	39.72	54.00	-14.28	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.



Report No.: EBO1410083-E306 Page 19 of 25

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	45.93	31.85	8.67	32.12	54.33	74.00	-19.67	Vertical
7323.00	30.92	36.37	11.72	31.89	47.12	74.00	-26.88	Vertical
9764.00	30.66	38.35	14.25	31.62	51.64	74.00	-22.36	Vertical
12205.00	*					74.00		Vertical
14646.00	*					74.00		Vertical
4882.00	47.54	31.85	8.67	32.12	55.94	74.00	-18.06	Horizontal
7323.00	32.55	36.37	11.72	31.89	48.75	74.00	-25.25	Horizontal
9764.00	29.95	38.35	14.25	31.62	50.93	74.00	-23.07	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	35.01	31.85	8.67	32.12	43.41	54.00	-10.59	Vertical
7323.00	19.76	36.37	11.72	31.89	35.96	54.00	-18.04	Vertical
9764.00	18.93	38.35	14.25	31.62	39.91	54.00	-14.09	Vertical
12205.00	*					54.00		Vertical
14646.00	*					54.00		Vertical
4882.00	35.58	31.85	8.67	32.12	43.98	54.00	-10.02	Horizontal
7323.00	21.85	36.37	11.72	31.89	38.05	54.00	-15.95	Horizontal
9764.00	18.54	38.35	14.25	31.62	39.52	54.00	-14.48	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.



Report No.: EBO1410083-E306 Page 20 of 25

Test channel: Highest 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
4960.00	44.95	31.93	8.73	32.16	53.45	74.00	-20.55	Vertical
7440.00	30.27	36.59	11.79	31.78	46.87	74.00	-27.13	Vertical
9920.00	30.08	38.81	14.38	31.88	51.39	74.00	-22.61	Vertical
12400.00	*					74.00		Vertical
14880.00	*					74.00		Vertical
4960.00	46.35	31.93	8.73	32.16	54.85	74.00	-19.15	Horizontal
7440.00	31.81	36.59	11.79	31.78	48.41	74.00	-25.59	Horizontal
9920.00	29.28	38.81	14.38	31.88	50.59	74.00	-23.41	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	34.22	31.93	8.73	32.16	42.72	54.00	-11.28	Vertical
7440.00	19.23	36.59	11.79	31.78	35.83	54.00	-18.17	Vertical
9920.00	18.45	38.81	14.38	31.88	39.76	54.00	-14.24	Vertical
12400.00	*					54.00		Vertical
14880.00	*					54.00		Vertical
4960.00	34.68	31.93	8.73	32.16	43.18	54.00	-10.82	Horizontal
7440.00	21.25	36.59	11.79	31.78	37.85	54.00	-16.15	Horizontal
9920.00	17.99	38.81	14.38	31.88	39.30	54.00	-14.70	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.



Report No.: EBO1410083-E306 Page 21 of 25

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	45.00	27.59	5.38	30.18	47.79	74.00	-26.21	Horizontal
2400.00	57.09	27.58	5.39	30.18	59.88	74.00	-14.12	Horizontal
2390.00	45.75	27.59	5.38	30.18	48.54	74.00	-25.46	Vertical
2400.00	59.35	27.58	5.39	30.18	62.14	74.00	-11.86	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	35.07	27.59	5.38	30.18	37.86	54.00	-16.14	Horizontal
2400.00	41.43	27.58	5.39	30.18	44.22	54.00	-9.78	Horizontal
2390.00	35.16	27.59	5.38	30.18	37.95	54.00	-16.05	Vertical
2400.00	43.28	27.58	5.39	30.18	46.07	54.00	-7.93	Vertical

Test channel:	Highest channel
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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
2483.50	47.35	27.53	5.47	29.93	50.42	74.00	-23.58	Horizontal
2500.00	46.12	27.55	5.49	29.93	49.23	74.00	-24.77	Horizontal
2483.50	48.55	27.53	5.47	29.93	51.62	74.00	-22.38	Vertical
2500.00	47.32	27.55	5.49	29.93	50.43	74.00	-23.57	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	37.92	27.53	5.47	29.93	40.99	54.00	-13.01	Horizontal
2500.00	35.62	27.55	5.49	29.93	38.73	54.00	-15.27	Horizontal
2483.50	39.31	27.53	5.47	29.93	42.38	54.00	-11.62	Vertical
2500.00	35.72	27.55	5.49	29.93	38.83	54.00	-15.17	Vertical

Remark:

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



Report No.: EBO1410083-E306 Page 22 of 25

7.4 20dB Occupy Bandwidth

Test Requirement:	FCC Part15 C Section 15.249/15.215	
Test Method:	ANSI C63.4:2003	
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

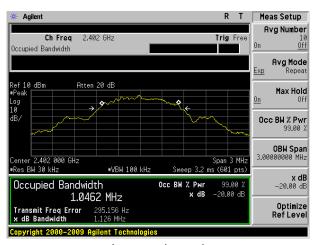
Worst case GFSK modulation

Test channel	20dB bandwidth(MHz)	Result
Lowest	1.126	Pass
Middle	1.122	Pass
Highest	1.121	Pass

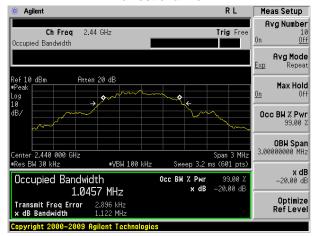
Test plot as follows:



Report No.: EBO1410083-E306 Page 23 of 25



Lowest channel



Middle channel



Highest channel

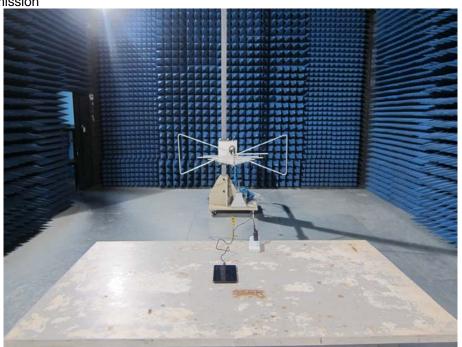


Report No.: EBO1410083-E306

Page 24 of 25

8 Test Setup Photo

Radiated Emission







Report No.: EBO1410083-E306

Page 25 of 25

Conducted Emission



9 EUT Constructional Details

Reference to the test report No. EBO1410083-E304

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