FCC TEST REPORT(Bluetooth)

for

SISCOSUN GROUP, LLC

Tablet PC

Model Number: PT-701A, PT-701B, PT-701C, PT-701D, PT-701F, PT-701G, Q7 3G

FCC ID: 2AC7LPT-701A

Prepared for : SISCOSUN GROUP, LLC

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UNITED STATES OF AMERICA

Prepared by : Keyway Testing Technology Co., Ltd.

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Report No. : 14KWE09187501F Date of Test : Sep. 4~9, 2014 Date of Report : Sep. 10, 2014

TABLE OF CONTENTS

Test Report Declaration	Page
1. TEST SUMMARY	4
2. GENERAL PRODUCT INFORMATION	5
2.1. Product Function	
2.2. Description of Device (EUT)	5
2.3. Difference between Model Numbers	6
2.4. Independent Operation Modes	6
2.5. Test Supporting System	6
3. TEST SITES	7
3.1. Test Facilities	7
3.2. List of Test and Measurement Instruments	8
4. TEST SET-UP AND OPERATION MODES	9
4.1. Principle of Configuration Selection	9
4.2. Block Diagram of Test Set-up	9
4.3. Test Operation Mode and Test Software	9
4.4. Special Accessories and Auxiliary Equipment	
4.5. Countermeasures to Achieve EMC Compliance	9
5. EMISSION TEST RESULTS	10
5.1. Conducted Emission at the Mains Terminals Test	10
5.2. Radiated Emission Test	13
6. 20DB OCCUPY BANDWIDTH	19
6.1. Limits	19
6.2. Test setup	19
7. BAND EDGE COMPLIANCE TEST	21
7.1. Limits	21
7.2. Test setup	
8. ANTENNA REQUIREMENTS	
8.1. Limits	
8.2. Result	
9. PHOTOGRAPHS OF TEST SET-UP	
10. PHOTOGRAPHS OF THE EUT	25

Keyway Testing Technology Co., Ltd.

Applicant: SISCOSUN GROUP, LLC

Address: 315 FIFTH AVENUE, SUITE 1005 NEW YORK, NY 10016,

UNITED STATES OF AMERICA

Manufacturer: Potato Technology International Co., Ltd.

Address: 3F/Block A1,JuYin industry Zone, ShangLiLang GanLl Road, BuJi

street, LongGang District, Shenzhen, China

E.U.T: Tablet PC

Model Number: PT-701A, PT-701B, PT-701C, PT-701D,

PT-701F, PT-701G, Q7 3G

Trade Name: ----- Serial No.: -----

Date of Receipt: Sep. 4, 2014 Date of Test: Sep. 4~9, 2014

Test Specification: FCC Part 15, Subpart C: Oct. 1, 2013

ANSI C63.4:2009

Test Result: The equipment under test was found to be compliance with the

requirements of the standards applied.

Issue Date: Sep. 10, 2014

Tested by:

Reviewed by:

Jack Bu / Engineer

Andy Gao / Supervisor

Jade Yang/Supervisor

Other Aspects:

None.

Abbreviations: OK/P=passed

fail/F=failed

n.a/N=not applicable

E.U.T=equipment under tested

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Keyway Testing Technology Co., Ltd.

1. TEST SUMMARY

Test Items	Test Requirement	Result
Conducted Emissions	15.207	PASS
Radiated Emissions	15.209 15.249(a)(d)	PASS
20dB Bandwidth	15.249	PASS
Emissions from out of band	15.249(d)	PASS
Antenna Requirement	15.203	PASS

2.GENERAL PRODUCT INFORMATION

2.1. Product Function

Refer to Technical Construction Form and User Manual.

2.2. Description of Device (EUT)

Product Name:	Tablet PC		
	PT-701A, PT-701B, PT-701C, PT-701D,		
Model No.:	PT-701F, PT-701G, Q7 3G		
	Bluetooth:2402~2480MHz		
	WIFI:2412MHz~2462MHz (802.11b/802.11g/802.11n(H20))		
	2422MHz~2452MHz (802.11n(H40))		
	GSM 850MHz:		
	Tx: 824.20 - 848.80MHz (at intervals of 200kHz);		
	Rx: 869.20 - 893.80MHz (at intervals of 200kHz)		
	GSM 1900MHz:		
Operation Frequency:	Tx: 1850.20 - 1909.80MHz (at intervals of 200kHz);		
	Rx: 1930.20 - 1989.80MHz (at intervals of 200kHz)		
	WCDMA Band II:		
	TX: 1852.4MHz - 1907.6MHz, (at intervals of 200kHz);		
	RX: 1932.4MHz - 1987.6MHz(at intervals of 200kHz);		
	WCDMA Band V:		
	Tx: 826.40 - 846.60MHz (at intervals of 200kHz);		
	Rx: 871.40 – 891.60MHz (at intervals of 200kHz)		
	Bluetooth:79 Channels		
Channel numbers:	WIFI:11 Channel for 802.11b/g/n(HT20),		
	7 Channel for 802.11n(HT40)		
Channel separation:	Bluetooth:1M WIFI:5M		
	Bluetooth: GFSK,Pi/4DQPSK,8-DQPSK		
	WIFI:DBPSK/ DQPSK/CCK/BPSK/ QPSK/ 16QAM/ 64QAM		
Modulation technology:	GSM/GPRS Mode with GMSK Modulation		
	WCDMA Mode with QPSK Modulation		
	HSDPA Mode with QPSK, 16QAM Modulation		
	HSUPA Mode with QPSK, 16QAM Modulation		
Antenna Type:	Integral Antenna		
Antenna gain:	3.0dBi (BT &WIFI), 1.1dBi (GSM&WCDMA),		
Power supply:	DC 5V from adapter		
,	Rechargeable lithium-ion battery 3.7V		
GPRS Class:	12		
EGPRS Class:	12		
	Manufacturer: Potato Technology International Co., Ltd.		
Adapter	M/N:RCL050200		
	I/P:AC 100~240V 50/60Hz O/P:DC 5V 2A		

2.3. Difference between Model Numbers

The product are different for model, outlook color and size.

2.4. Independent Operation Modes

The basic operation modes are:

2.4.1. EUT work continues TX mode and frequency as below:

Modulation	Channel	Frequency
FLICO D:/ADODOK	Low	2402MHz
FHSS, Pi/4DQPSK,	Middle	2441MHz
8-DQPSK	High	2480MHz

Note: Bluetooth signal has 9 packages DH1, DH3, DH5, 2DH1, 2DH3, 2DH5, 3DH1, 3DH3, 3DH5, DH5 package is largest; we are testing DH5 in the report.

2.5. Test Supporting System

None.

3. TEST SITES

3.1. Test Facilities

Lab Qualifications: 944 Shielded Room built by ETS-Lindgren, USA

Date of completion: March 28, 2011

966 Chamber built by ETS-Lindgren, USA

Date of completion: March 28, 2011

Certificated by TUV Rheinland, Germany.

Registration No.: UA 50207153 Date of registration: July 13, 2011

Certificated by UL, USA Registration No.: 100567-237

Date of registration: September 1, 2011

Certificated by Intertek

Registration No.: 2011-RTL-L1-31 Date of registration: October 11, 2011

Certificated by Industry Canada

Registration No.: 9868A

Date of registration: December 8, 2011

Certificated by FCC, USA Registration No.: 370994

Date of registration: February 21, 2012

Certificated by CNAS China Registration No.: CNAS L5783 Date of registration: August 8, 2012

Name of Firm : Keyway Testing Technology Co., Ltd.

Site Location : Baishun Industrial Zone, Zhangmutou Town,

Dongguan, Guangdong, China

3.2. List of Test and Measurement Instruments

3.2.1. For conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Apr. 27,14	Apr. 27,15
Artificial Mains Network	Rohde&Schwarz	ENV216	101315	Apr. 27,14	Apr. 27,15
Artificial Mains Network (AUX)	Rohde&Schwarz	ENV216	101314	Apr. 27,14	Apr. 27,15
RF Cable	FUJIKURA	3D-2W	944 Cable	Apr. 27,14	Apr. 27,15

3.2.2. For radiated emission test

•				•	
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Apr. 27,14	Apr. 27,15
System Simulator	Agilent	E5515C	GB43130245	Apr. 30,14	Apr. 30,15
Power Splitter	Weinschel	1506A	NW425	Apr. 30,14	Apr. 30,15
Bilog Antenna	ETS-LINDGREEN	3142D	135452	Apr. 27,14	Apr. 27,15
Loop antenna	teseq	HLA6120	22032	Apr. 30,14	Apr. 30,15
Spectrum Analyzer	Agilent	E4411B	MY4511304	Apr. 27,14	Apr. 27,15
3m Semi-anechoic Chamber	ETS-LINDGREEN	966	KW01	Apr. 27,14	Apr. 27,15
Signal Amplifier	SONOMA	310	187016	Apr. 27,14	Apr. 27,15
Signal Amplifier	Agilent	8449B	3008A00251	Apr. 27,14	Apr. 27,15
RF Cable	IMRO	IMRO-400	966 Cable 1#	N/A	N/A
MULTI-DEVICE Controller	ETS-LINDGREEN	2090	126913	N/A	N/A
Horn Antenna	DAZE	ZN30701	11003	Apr. 27,14	Apr. 27,15
Horn Antenna	SCHWARZBECK	BBHA9170	9170-068	Apr. 27,14	Apr. 27,15
Spectrum Analyzer	Agilent	8593E	3911A04271	Apr. 27,14	Apr. 27,15
Spectrum Analyzer	Agilent	E4408B	MY44211125	Apr. 30,14	Apr. 30,15
Signal Amplifier	DAZE	ZN3380C	11001	Apr. 27,14	Apr. 27,15
High Pass filter	Micro	HPM50111	324216	Apr. 30,14	Apr. 30,15
Filter	COM-MW	ZBSF-C836.5-25-X	KW032	Apr. 30,14	Apr. 30,15
Filter	COM-MW	ZBSF-C1747.5-75-X2	KW035	Apr. 30,14	Apr. 30,15
Filter	COM-MW	ZBSF-C1880-60-X2	KW037	Apr. 30,14	Apr. 30,15
DC Power Supply	LongWei	PS-305D	010964729	Apr. 27,14	Apr. 27,15
Constant temperature and humidity box	GF	GTH-800-40-1P	MAA9906-005	Apr. 27,14	Apr. 27,15
Universal radio communication tester	Rohde&Schwarz	CMU200	3215420	Apr. 27,14	Apr. 27,15
Splitter	Agilent	11636B	0025164	Apr. 27,14	Apr. 27,15

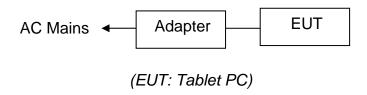
4. TEST SET-UP AND OPERATION MODES

4.1. Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

4.2. Block Diagram of Test Set-up

System Diagram of Connections between EUT and Simulators



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- 4.3. Test Operation Mode and Test Software None.
- 4.4. Special Accessories and Auxiliary Equipment None.
- 4.5. Countermeasures to Achieve EMC Compliance None.

4.6. Test Environment:

Ambient conditions in the test laboratory:

Items	Actual
Temperature (°C)	21~23
Humidity (%RH)	50~65

Page 9 of 32

5. EMISSION TEST RESULTS

5.1. Conducted Emission at the Mains Terminals Test

5.1.1. Limit 15.207 limits

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dBµV)	
	Quasi-peak	Average
0.15-0.5 0.5-5 5-30	66 to 56 56 60	56 to 46 46 50

5.1.2. Test Setup

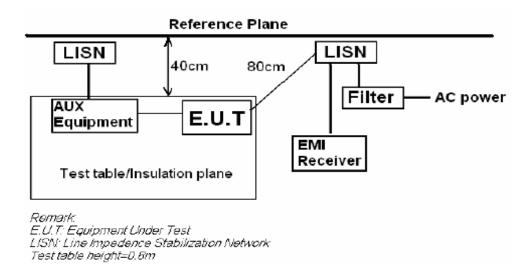
The EUT was put on a wooden table which was 0.8 m high above the ground and connected to the AC mains through the Artificial Mains Network (AMN). Where the mains cable supplied by the manufacture was longer than 0.8 m, the excess was folded back and forth parallel to the cable at the centre so as to form a bundle no longer than 0.4 m.

The EUT was kept 0.4 m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during the conducted emission test.

The frequency range from 150 kHz to 30 MHz was investigated.

The bandwidth of the test receiver was set at 9 kHz.

Pretest for all mode, The test data of the worst case condition(s) was reported on the following page.



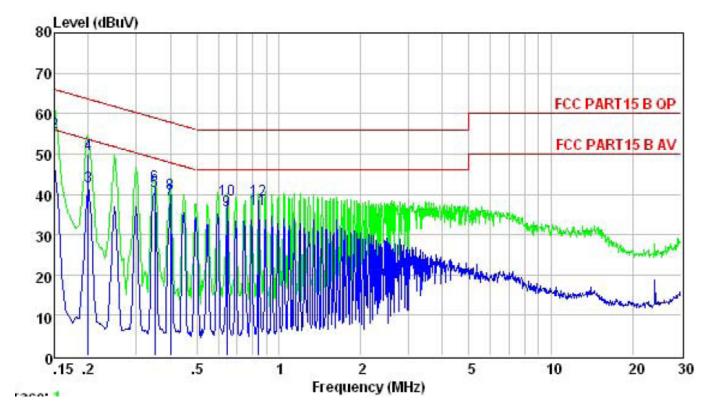
5.1.3. Test Mode

Set EUT in TX mode.

Page 10 of 32

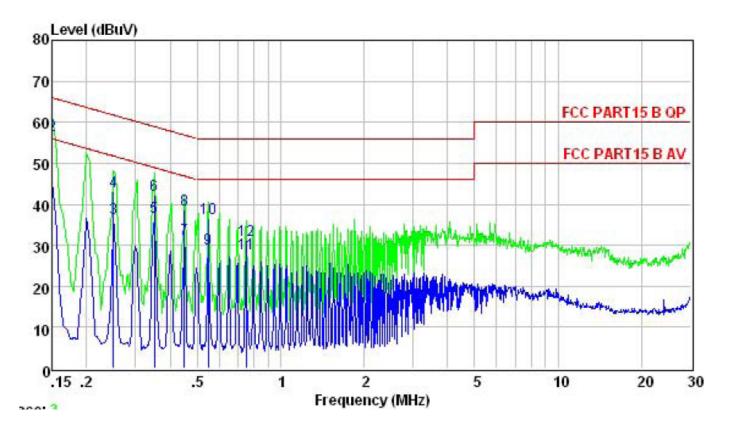
Test Data

Line



	F	1 1	Limit	Over	D1-
	rreq	Level	Line	Limit	Remark
-	MHz	dBuV	dBuV	dB	
1	0.150	46.59	56.00	-9.41	Average
2	0.150	55.30	66.00	-10.70	QP
3	0.200	41.96	53.62	-11.66	Average
4	0.200	50.10	63.62	-13.52	QP
5	0.350	40.67	48.96	-8.29	Average
6	0.350	42.10	58.96	-16.86	QP
7	0.400	38.54	47.86	-9.32	Average
8	0.400	40.20	57.86	-17.66	QP
9	0.644	35.86	46.00	-10.14	Average
10	0.644	38.60	56.00	-17.40	QP
11	0.844	36.18	46.00	-9.82	Average
12	0.844	38.60	56.00	-17.40	QP

Neutral



	(2)	0.000	Limit	Over	(2) IE
	Freq	Level	Line	Limit	Remark
-	MHz	dBuV	dBuV	dB	-
1	0.150	44.91	56.00	-11.09	Average
2	0.150	56.90	66.00	-9.10	QP
3	0.249	36.64	51.78	-15.14	Average
4	0.249	43.20	61.78	-18.58	QP
5	0.350	36.82	48.96	-12.14	Average
6	0.350	42.30	58.96	-16.66	QP
7	0.449	31.45	46.89	-15.44	Average
8	0.449	38.60	56.89	-18.29	QP
9	0.549	29.26	46.00	-16.74	Average
10	0.549	36.60	56.00	-19.40	QP
11	0.751	27.83	46.00	-18.17	Average
12	0.751	31.30	56.00	-24.70	QP

5.2. Radiated Emission Test

5.2.1. Limit 15.209 limits

FREQUENCY	DISTANCE	FIELD STRENGTHS LIMIT	
MHz	Meters	$\mu V/m$	dB(μV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak)	
		$54.0 \text{ dB}(\mu\text{V})/\text{m} \text{ (Average)}$	

5.2.2. Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

5.2.3. Test setup

The EUT was placed on a turn table which was 0.8 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.

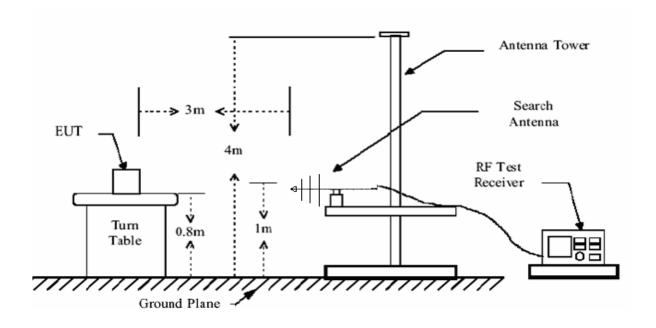
The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW/VBW= 1M/3MHz for PEAK, 1MHz/10Hz for AV above1GHz.

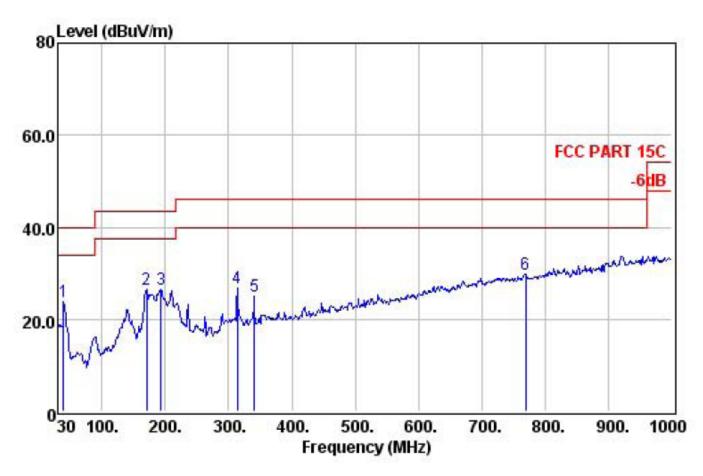
The frequency range from 30MHz to 10th harmonic (25GHz) is checked. And no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

Notes: 1. Emission Level = Antenna Factor + Cable Loss + Meter Reading-Preamp Factor.

- 2. Measurement Uncertainty: ±3.2 dB at a level of confidence of 95%.
- 3. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
- 4. For emissions below 1GHz, pretest for all modes, The test data of the worst case condition(s) was reported on the following pages.
- 5: During the test, pre-scan the GFSK, Pi/4DQPSK, 8DPSK modulation, and found the GFSK modulation which it is worse case.

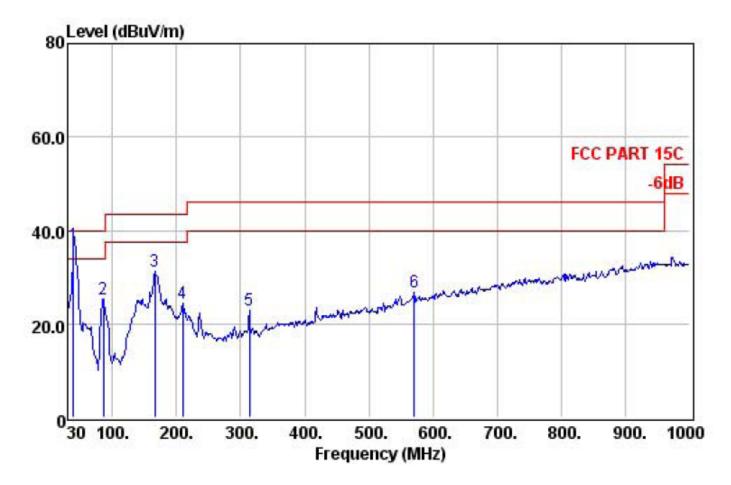


Below 1GHz
BT Mode Horizontal polarizations



		Preamp		Cable.	CableAntenna		Limit	Over		
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark	
-	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB		
1	39.70	31.37	41.55	0.56	13.08	23.82	40.00	-16.18	QP	
2	170.65	31.19	46.33	1.30	10.12	26.56	43.50	-16.94	QP	
3	192.96	31.12	45.68	1.46	10.37	26.39	43.50	-17.11	QP	
4	313.24	30.89	41.53	1.94	14.17	26.75	46.00	-19.25	QP	
5	340.40	30.71	38.44	2.10	15.12	24.95	46.00	-21.05	QP	
6	769.14	30.64	33.55	4.21	22.72	29.84	46.00	-16.16	QP	

BT Mode Vertical polarizations



			Preamp	Read	Cablei	Antenna		Limit	Over	
		Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	100	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	!	39.70	31.37	54.69	0.56	13.08	36.96	40.00	-3.04	QP
2		86.26	31.35	47.14	0.94	8.69	25.42	40.00	-14.58	QP
3		165.80	31.21	51.46	1.30	9.72	31.27	43.50	-12.23	QP
4		209.45	31.08	42.55	1.53	11.45	24.45	43.50	-19.05	QP
5		313.24	30.89	37.54	1.94	14.17	22.76	46.00	-23.24	QP
6		571.26	30.81	34.59	3.20	19.76	26.74	46.00	-19.26	QP

Above 1GHz GFSK 2402MHz Horizontal polarizations

		Preamp	Read	Cablei	Antenna		Limit	Over	
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	()
1	2402.00	26.32	79.62	7.34	28.72	89.36	94.00	-4.64	Average
2	2402.00	26.32	92.40	7.34	28.72	102.14	114.00	-11.86	Peak
3	4804.00	27.49	31.95	11.96	32.94	49.36	74.00	-24.64	Peak
4	7239.00	27.95	18.84	16.61	37.30	44.80	74.00	-29.20	Peak
5	10197.00	28.82	18.52	17.00	38.72	45.42	74.00	-28.58	Peak
6	12118.00	29.02	16.63	17.47	39.42	44.50	74.00	-29.50	Peak

GFSK 2402MHz Vertical polarizations

		Preamp	Read	Cable	Antenna		Limit	Over	
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
,	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	,
1	2402.00	26.32	79.55	7.34	28.72	89.29	94.00	-4.71	Average
2	2402.00	26.32	92.37	7.34	28.72	102.11	114.00	-11.89	Peak
3	4804.00	27.49	30.85	11.96	32.94	48.26	74.00	-25.74	Peak
4	7239.00	27.95	16.13	16.61	37.30	42.09	74.00	-31.91	Peak
5	9245.00	28.50	17.40	16.90	37.69	43.49	74.00	-30.51	Peak
6	12917.00	29.18	16.08	18.14	40.50	45.54	74.00	-28.46	Peak

GFSK 2441MHz Horizontal polarizations

		Preamp	Read	Cable	lntenna		Limit	Over	
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	3 5 1 .
1	2441.00	26.33	79.37	7.48	28.76	89.28	94.00	-4.72	Average
2	2441.00	26.33	91.98	7.48	28.76	101.89	114.00	-12.11	Peak
3	4882.00	27.53	31.64	12.14	33.11	49.36	74.00	-24.64	Peak
4	7307.00	27.96	17.86	16.61	37.32	43.83	74.00	-30.17	Peak
5	9092.00	28.43	19.06	16.89	37.50	45.02	74.00	-28.98	Peak
6	12271.00	29.05	17.26	17.59	39.46	45.26	74.00	-28.74	Peak

GFSK 2441MHz Vertical polarizations

		Preamp	Read	Cablei	Antenna		Limit	Over	
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	(
1	2441.00	26.33	79.71	7.48	28.76	89.62	94.00	-4.38	Average
2	2441.00	26.33	92.43	7.48	28.76	102.34	114.00	-11.66	Peak
3	4882.00	27.53	31.57	12.14	33.11	49.29	74.00	-24.71	Peak
4	8973.00	28.39	19.72	16.87	37.36	45.56	74.00	-28.44	Peak
5	10197.00	28.82	19.73	17.00	38.72	46.63	74.00	-27.37	Peak
6	12917.00	29.18	18.60	18.14	40.50	48.06	74.00	-25.94	Peak

GFSK 2480MHz Horizontal polarizations

		Preamp	Read	Cablei	Antenna		Limit	Over	
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	(()
1	2480.00	26.34	79.21	7.57	28.79	89.23	94.00	-4.77	Average
2	2480.00	26.34	92.85	7.57	28.79	102.87	114.00	-11.13	Peak
3	4960.00	27.58	31.07	12.36	33.32	49.17	74.00	-24.83	Peak
4	7987.00	28.10	19.20	16.66	36.43	44.19	74.00	-29.81	Peak
5	11659.00	28.97	16.23	17.30	39.74	44.30	74.00	-29.70	Peak
6	13750.00	29.35	11.61	19.08	43.25	44.59	74.00	-29.41	Peak

GFSK 2480MHz Vertical polarizations

		Preamp	Read	Cable	Antenna		Limit	Over	
	Freq	Factor	Level	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	(
1	2480.00	26.34	79.34	7.57	28.79	89.36	94.00	-4.64	Average
2	2480.00	26.34	92.16	7.57	28.79	102.18	114.00	-11.82	Peak
3	4960.00	27.58	30.22	12.36	33.32	48.32	74.00	-25.68	Peak
4	7392.00	27.98	17.01	16.62	37.36	43.01	74.00	-30.99	Peak
5	10843.00	28.88	15.41	17.13	39.41	43.07	74.00	-30.93	Peak
6	12067.00	29.01	16.19	17.43	39.41	44.02	74.00	-29.98	Peak

6. 20DB OCCUPY BANDWIDTH

6.1. Limits

According to FCC Section 15.247(a)(1), the 20dB bandtidth is known as the 99% emission bandwidth, or 20dB bandwidth(10*log1%=20dB)taking the RF output power

6.2. Test setup

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum, During the measurement, the Bluetooth module of the EUT is activated and controlled by the software, and is set to operate under test mode transmitting 339 bytes DH5 packages at maximum power.
- 2. Set the spectrum analyzer:

Span: approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel

RBW = 30kHz

VBW = 100kHz

Sweep=auto

Detector function=peak

Trace=max hold

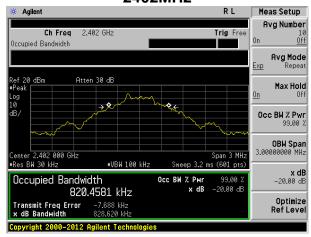
Test data:

	Channel Frequency (MHz)	20dB Bandwidth (MHz)	Result
	2402	0.829	Pass
GFSK	2441	0.831	Pass
	2480	0.827	Pass

Test plot as follows:

GFSK

2402MHz



2441 MHz



2480 MHz



7. BAND EDGE COMPLIANCE TEST

7.1. Limits

According to FCC Section 15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF con-ducted or a radiated measurement

7.2. Test setup

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set to span from the lowest frequency generated in the device up to and including the tenth harmonic of the highest fundamental frequency

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure.

Note: If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

For radiated test as follows:

	Frequency (MHz)	Antenna polarization	Emission (dBuV/m)	Band ed (dBu\		Result
		(H/V)	PK	PK	AV	Pass
	<2400	Н	50.34	74.00	54.00	Pass
Hopping	<2400	V	50.11	74.00	54.00	Pass
Порринд	>2483.5	Н	49.45	74.00	54.00	Pass
	>2483.5	V	50.12	74.00	54.00	Pass
	<2400	Н	50.04	74.00	54.00	Pass
Unhopping	<2400	V	50.18	74.00	54.00	Pass
Ciliopping	>2483.5	Н	50.26	74.00	54.00	Pass
	>2483.5	V	50.41	74.00	54.00	Pass

If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

8. ANTENNA REQUIREMENTS

8.1. Limits

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.2. Result

The antennas used for this product are integral Antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 3.0dBi.

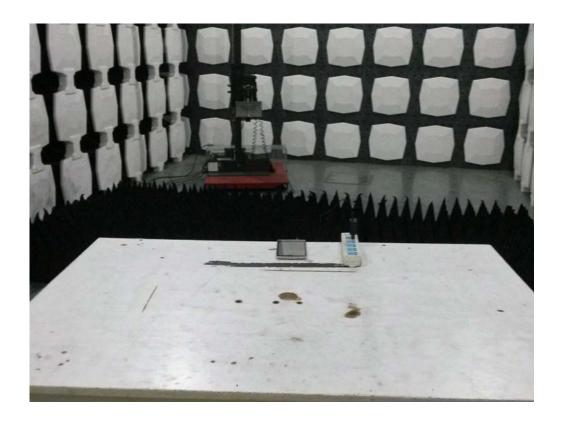
9. PHOTOGRAPHS OF TEST SET-UP

Conducted Emission



Radiated Emission





10. PHOTOGRAPHS OF THE EUT

















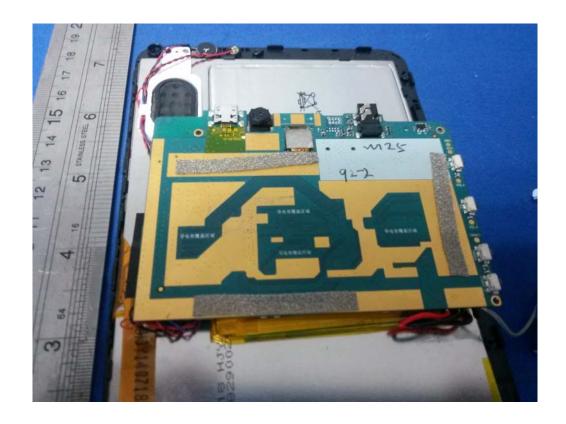
















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