





ISO/IEC17025 Accredited Lab.

FCC ID TEST REPORT

for

Bluetooth Keyboard

MODEL: KB6006I

FCC ID: X9PKB6006I

Test Report Number: 1305001479BT Issued Date: June 18, 2013

Issued for

SHENZHEN PAOLUY SILICONE TECHNOLOGY CO.,LTD

Ath Building 5th floor. Forzen Industrial park. Fuyuan 2nd Road. Heping Village Fuyong Town.Baoan District .Shenzhen. China

Issued By:

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD.

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FCC ID: X9PKB6006I

TEST CERTIFICATION

Product: Bluetooth Keyboard

Model: KB6006I

Applicant: SHENZHEN PAOLUY SILICONE TECHNOLOGY CO.,LTD

Ath Building 5th floor. Forzen Industrial park. Fuyuan 2nd Road. Heping Village Fuyong

Town.Baoan District .Shenzhen. China

Factory: SHENZHEN PAOLUY SILICONE TECHNOLOGY CO.,LTD

Ath Building 5th floor. Forzen Industrial park. Fuyuan 2nd Road. Heping Village Fuyong

Town.Baoan District .Shenzhen. China

Trade Mark: N/A

Tested: June 05, 2013 ~ June 18, 2013

Test Voltage: AC 120V/60Hz

Applicable FCC Part 15 Subpart C: 2012 Standards:

ANSI C63.4:2009

Deviation from Applicable Standard

None

The above equipment has been tested by SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Date: 2013-06-18

(Brown Lu)

Check By: Date: 2013-06-18

(Terry Tang)

Approved By: Date: 2013-06-18

(Jack Chung)

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1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Product	Bluetooth Keyboard	
Brand Name	N/A	
Models	KB6006I	
Applicant	SHENZHEN PAOLUY SILICONE TECHNOLOGY CO.,LTD	
Housing material	Plastic	
EUT Type	☐ Engineering Sample.☐ Product Sample,☐ Mass Product Sample.	
Bluetooth Version	Bluetooth 3.0 + EDR	
Antenna Type	PCB Antenna	
EUT Power Rating	DC 3.7V by adapter	
Temperature Range(Operating)	-10℃ ~55℃	
Operating Frequency	2402MHz to 2480MHz	
Number of Channels	79 Channels	
Channel Separation	1MHz	
Modulation Technology	GFSK(1Mbps) π /4-DQPSK(2Mbps) 8-DPSK(3Mbps)	
Antenna Gain	1.87dBi Max.	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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2.

Channel	List				
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2331	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	Internal Antenna	NA	1.87	BT Antenna

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1.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78

For Conducted Emission		
Final Test Mode	Description	
Mode 1	CH78	

For Radiated Emission			
Final Test Mode	Description		
Mode 1	CH00		
Mode 2	CH39		
Mode 3	CH78		

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2)The data rate were set in 1Mbps,2 Mbps,3 Mbps for radiated emission due to the highest RF output power.
- (3)Result the worst case of following tests in the report.

1.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

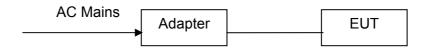
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	Test program: Bolutek Technology			
Frequency	2402 MHz 2441 MHz 2480 MHz			
Parameters(1Mbps)	DEF	DEF	DEF	
Parameters(2Mbps)	DEF	DEF	DEF	
Parameters(3Mbps)	DEF	DEF	DEF	

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1.4 CONFIGURATION OF SYSTEM UNDER TEST



(EUT: Bluetooth Keyboard)

I/O Port of EUT					
I/O Port Type Q'TY Cable Tested with					
USB port	1	0.5m USB cable, unshielded	1		

Note: the USB port of EUT is used only for charging.

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1.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	MLF	IMU013	N/A	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core"

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1.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

EQUIPMENT/FACILITIE S	MANUFACTURE R	MODEL #	SERIAL NO.	CAL. DUE DATE	CAL. INTERVAL
EMI Test Receiver	R&S	ESCI	100005	12/16/2013	1 Year
LISN	LS	LS16	160102221 19	12/16/2013	1 Year
LISN(EUT)	Mestec	AN3016	04/10040	12/22/2013	1 Year
EMI Test Receiver	R&S	ESCI	100005	12/16/2013	1 Year
Spectrum Analyzer	R&S	FSU	100114	12/14/2013	1 Year
Pre Amplifier	H.P.	HP8447E	2945A027 15	12/16/2013	1 Year
Pre-Amplifier	Compliance	PAM0118	1360976	12/16/2013	1 Year
Bilog Antenna	SUNOL Sciences	JB3	A021907	12/10/2013	1 Year
Horn Antenna	Schwarzbeck	BBHA 9170	RS2036	12/10/2013	1 Year
Horn Antenna	Schwarzbeck	BBHA 9120	RS4051	12/10/2013	1 Year
Loop Antenna	Schwarzbeck	FESP5132	RS101	12/23/2013	1 Year
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	12/09/2013	1 Year
Cable	TIME MICROWAVE			12/09/2013	1 Year
System-Controller	CCS	N/A	N/A	N.C.R	1 Year
Turn Table	CCS	N/A	N/A	N.C.R	1 Year
Antenna Tower	CCS	N/A	N/A	N.C.R	1 Year
Spectrum analyzer	Agilent	E4407B	88156318	12/09/2013	1 Year
Power meter	R&S	NRP-Z23	100323	8/15/2013	1 Year

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1.7 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

	FCC Part15 (15.247) , Subpart C					
Standard Section	Test Item	Judgment	Remark			
15.207	Conducted Emission	PASS				
15.247(a)(1)	Hopping Channel Separation	PASS				
15.247(b)(1)	Peak Output Power	PASS				
15.247(c)	Radiated Spurious Emission	PASS				
15.247(a)(iii)	Number of Hopping Frequency	PASS				
15.247(a)(iii)	Dwell Time	PASS				
15.247(a)(1)	Bandwidth	PASS				
15.205	Band Edge Emission	PASS				
15.203	Antenna Requirement	PASS				

NOTE:

MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

No.	Item	Uncertainty
1	Conducted Emission Test	±3.6dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.7dB
5	All emissions,radiated(>1G)	±4.7dB
6	Temperature	±0.5°C
7	Humidity	±2%

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^{(1)&}quot; N/A" denotes test is not applicable in this Test Report

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1.8 FACILITIES AND ACCREDITATIONS

1.8.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

5/F, Block 4, Anhua Industrial Zone., No.8 Tairan Rd. Chegongmiao,

Futian District Shenzhen, China

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

1.8.2 ACCREDITATIONS

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAL. This approval result is accepted by MRA of APLAC.

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

CNAL-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC- Registration No.: IC5205A-01

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

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2. EMC EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

	Class A (dBuV)		Class B	Ctandard	
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	Standard
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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2.1.2 TEST PROCEDURE

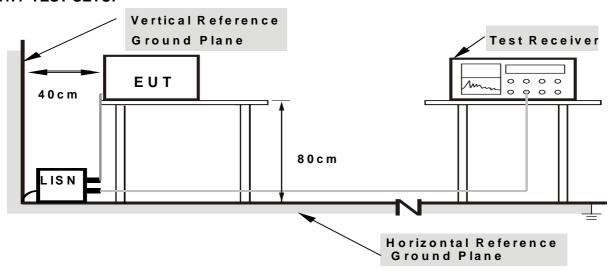
a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

2.1.3 DEVIATION FROM TEST STANDARD

No deviation

2.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

2.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

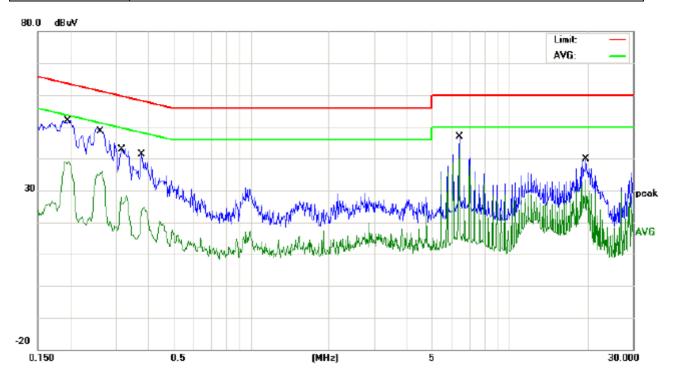
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2.1.6 TEST RESULTS

The worst case is Mode 1 with data rate 1Mbps in this part, the test data as following:

EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature :	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V 60Hz	LIBET IVIONALIVIORETI	Mode 1 with data rate 1Mbps
Test Date	June 15, 2013		

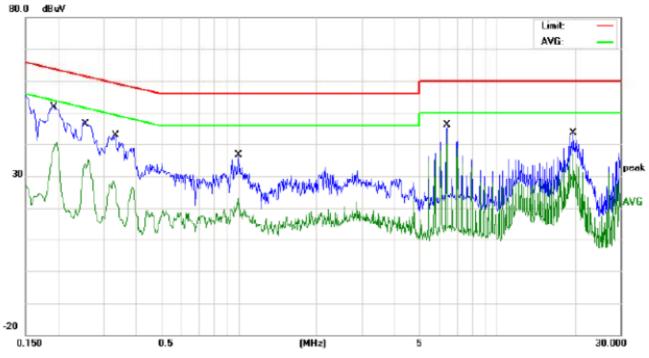


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∀	dBu∀	dB	Detector	Comment
1	*	0.1955	41.58	10.31	51.89	63.80	-11.91	QP	
2		0.1955	28.82	10.31	39.13	53.80	-14.67	AVG	
3		0.2630	38.01	10.52	48.53	61.33	-12.80	QP	
4		0.2630	25.14	10.52	35.66	51.33	-15.67	AVG	
5		0.3200	31.29	10.62	41.91	59.70	-17.79	QP	
6		0.3200	15.19	10.62	25.81	49.70	-23.89	AVG	
7		0.3790	29.21	10.53	39.74	58.30	-18.56	QP	
8		0.3790	13.33	10.53	23.86	48.30	-24.44	AVG	
9		6.3818	32.13	10.54	42.67	60.00	-17.33	QP	
10		6.3818	24.56	10.54	35.10	50.00	-14.90	AVG	
11		19.8059	29.37	10.50	39.87	60.00	-20.13	QP	
12		19.8059	22.90	10.50	33.40	50.00	-16.60	AVG	

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EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V 60Hz	Test Mode(Worst):	Mode 1 with data rate 1Mbps
Test Date	June 15, 2013		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1	*	0.1945	40.92	10.32	51.24	63.84	-12.60	QP	
2		0.1945	29.44	10.32	39.76	53.84	-14.08	AVG	
3		0.2589	35.59	10.51	46.10	61.46	-15.36	QP	
4		0.2589	22.43	10.51	32.94	51.46	-18.52	AVG	
5		0.3301	31.44	10.60	42.04	59.45	-17.41	QP	
6		0.3301	17.35	10.60	27.95	49.45	-21.50	AVG	
7		0.9979	23.74	10.75	34.49	56.00	-21.51	QP	
8		0.9979	10.29	10.75	21.04	46.00	-24.96	AVG	
9		6.3818	33.51	10.54	44.05	60.00	-15.95	QP	
10		6.3818	24.99	10.54	35.53	50.00	-14.47	AVG	
11		19.7972	33.14	10.50	43.64	60.00	-16.36	QP	
12		19.7972	26.71	10.50	37.21	50.00	-12.79	AVG	

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2.2 RADIATED EMISSION MEASUREMENT

2.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/meter)	(meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
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Attenuation	Auto			
Start Frequency	1000 MHz			
Stop Frequency	10th carrier harmonic			
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average			

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

2.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

2.2.3 DEVIATION FROM TEST STANDARD

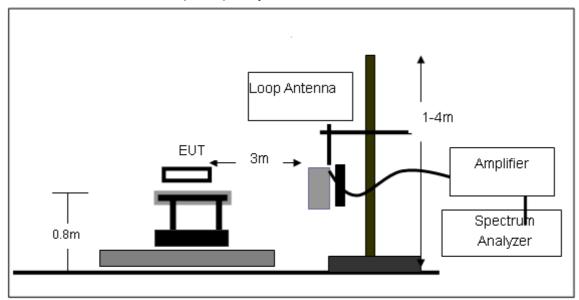
No deviation

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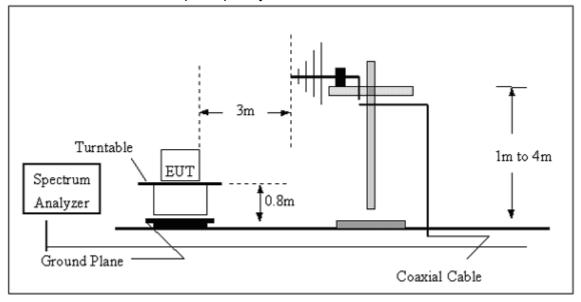
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2.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



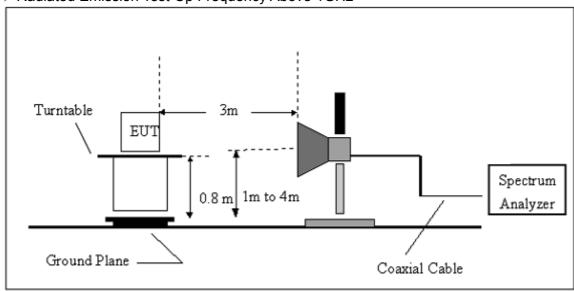
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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(C) Radiated Emission Test-Up Frequency Above 1GHz



2.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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2.2.6 TEST RESULTS (BELOW 30 MHZ)

EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa	Polarization :	
Test Voltage :	AC 120V 60Hz	Test Date	June 15, 2013
Test Mode :	Mode 1/Mode 2/Mode 3		

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
				PASS
				PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =20 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

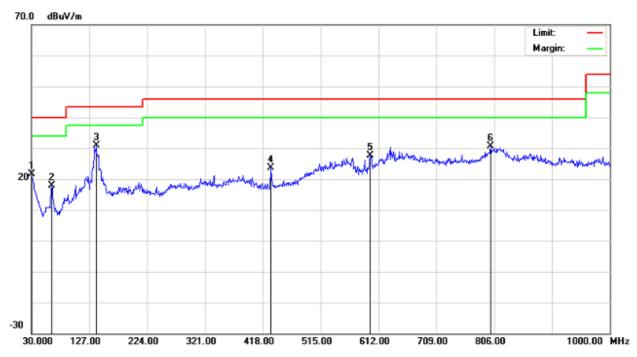
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FCC ID: X9PKB6006I

2.2.7 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

The worst case is Mode 1 with data rate 1Mbps in this part, the test data as following:

The well to the to the de i with data late impe in the part, the test data de lene wing.								
EUT:	Bluetooth Keyboard	Model Name :	KB6006I					
Temperature :	20 ℃	Relative Humidity:	48%					
Pressure:	1010 hPa	Polarization :	Horizontal					
Test Voltage :	AC 120V 60Hz	Test Date	June 15, 2013					
Test Mode(Worst case) :	Mode 1 with data rate 1Mbps							

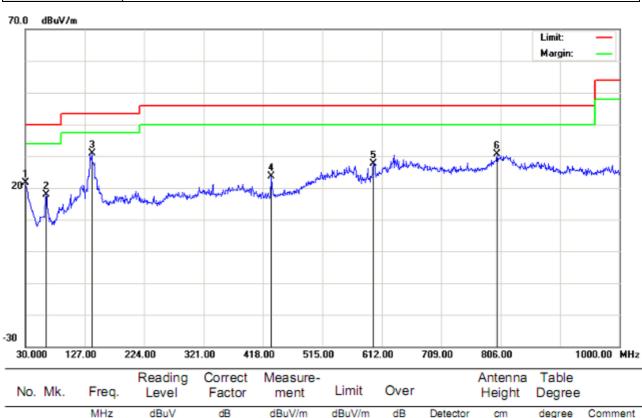


No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
6	!	252.0627	46.68	-5.27	41.41	47.00	-5.59	QP			
1		30.0000	21.35	0.20	21.55	40.00	-18.45	QP			
2		63.9500	28.99	-11.14	17.85	40.00	-22.15	QP			
3	*	138.6400	37.03	-6.16	30.87	43.50	-12.63	QP			
4		431.5800	28.36	-4.79	23.57	46.00	-22.43	QP			
5		598.4200	26.25	1.41	27.66	46.00	-18.34	QP			
6		800.1800	23.90	6.67	30.57	46.00	-15.43	QP			

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EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Polarization :	Vertical
Test Voltage :	AC 120V 60Hz	Test Date	June 15, 2013
Test Mode :	Mode 1 with data rate 1Mbps		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
6		800.1800	23.90	6.67	30.57	46.00	-15.43	QP			
1		30.0000	21.35	0.20	21.55	40.00	-18.45	QP			
2		63.9500	28.99	-11.14	17.85	40.00	-22.15	QP			
3	*	138.6400	37.03	-6.16	30.87	43.50	-12.63	QP			
4		431.5800	28.36	-4.79	23.57	46.00	-22.43	QP			
5		598.4200	26.25	1.41	27.66	46.00	-18.34	QP			
6		800.1800	23.90	6.67	30.57	46.00	-15.43	QP			

FCC ID: X9PKB6006I

2.2.8 TEST RESULTS (ABOVE 1000 MHZ)

The worst case is 1Mbps rate in this part, the test data as following:

EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	LIEST MINNE :	Mode 1 with data rate 1Mbps
Test Voltage :	AC 120V 60Hz	Test Date	June 15, 2013
Test Frequency	1GHz-25GHz		

Freq.	Ant.Pol	Emission L	_evel(dBuV)	Lir	Limit		er(dB)
(MHz)				3m(dB	uV/m)		
	H/V	PK	AV	PK	AV	PK	AV
4810.36	V	57.69	37.12	74	54	-16.31	-16.88
9645.12	V	46.12	36.15	74	54	-27.88	-17.85
9812.45	V	41.31	30.65	74	54	-32.69	-23.35
4938.62	Н	58.12	43.85	74	54	-15.88	-10.15
9568.47	Н	47.11	38.16	74	54	-26.89	-15.84

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature:	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	1 1661 1/1006	Mode 2 with data rate 1Mbps
Test Voltage :	AC 120V 50Hz	Test Date	June 15, 2013
Test Frequency	1GHz-25GHz		

Freq.	Ant.Pol.	Emission Level(dBuV)		L	imit	Over(dB)	
(MHz)				3m(d	BuV/m)		
	H/V	PK	AV	PK	AV	PK	AV
4895.32	V	57.51	38.96	74	54	-16.49	-15.04
7569.51	V	45.12	35.87	74	54	-28.88	-18.13
4851.23	Н	58.63	45.61	74	54	-15.37	-8.39
7615.3	Н	47.89	38.65	74	54	-26.11	-15.35
9765.21	Н	49.91	40.57	74	54	-24.09	-13.43

Remark

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	LIEST MINNE :	Mode 3 with data rate 1Mbps
Test Voltage :	AC 120V 60Hz	Test Date	June 15, 2013
Test Frequency	1GHz-25GHz		

Freq.	Ant.Pol.	Emission	Emission Level(dBuV		Limit 3m(dBuV/m)		er(dB)
(MHz)	H/V	PK	AV	PK	AV	PK	AV
4912.31	V	59.12	39.65	74	54	-14.88	-14.35
7765.42	V	48.15	40.65	74	54	-25.85	-13.35
9815.63	V	45.96	38.45	74	54	-28.04	-15.55
4965.31	Н	57.41	38.12	74	54	-16.59	-15.88
9876.52	Н	47.68	38.13	74	54	-26.32	-15.87

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor. Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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2.2.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

The worst case is 3Mbps data rate.

EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa		
Test Voltage :	AC 120V 60Hz	Test Date	June 15, 2013
Test Mode :	TX /2402MHz-3Mbps	Polarization :	Vertical
Test Frequency	2.31GHz-2.4GHz		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	20100101 1900
2400	74.57	-12.99	61.58	74	12.42	peak
2400	59.57	-12.99	46.58	54	7.42	AVG
2365	69.77	-12.99	56.78	74	17.22	peak
2365	57.9	-12.99	44.91	54	9.09	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature:	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa		
Test Voltage :	AC 120V 60Hz	Test Date	June 15, 2013
Test Mode :	TX /2402MHz-3Mbps	Polarization :	Horizontal
Test Frequency	2.31GHz-2.4GHz		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	20100101 1990
2400	76.12	-12.99	63.13	74	10.87	peak
2400	57.78	-12.99	44.79	54	9.21	AVG
2365	72.66	-12.99	59.67	74	14.33	peak
2365	57.6	-12.99	44.61	54	9.39	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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FCC ID: X9PKB6006I

EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa		
Test Voltage :	AC 120V 60Hz	Test Date	June 15, 2013
Test Mode :	TX /2480MHz-3Mbps	Polarization :	Vertical
Test Frequency	2.4835GHz-2.5GHz		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	20100101 1990
2483.5	72.64	-12.78	59.86	74	14.14	peak
2483.5	55.89	-12.78	43.11	54	10.89	AVG
2491.6	69.21	-12.78	56.43	74	17.57	peak
2491.6	54.29	-12.78	41.51	54	12.49	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature :	20 ℃	Relative Humidity:	48%
Pressure :	1010 hPa		
Test Voltage :	AC 120V 60Hz	Test Date	June 15, 2013
Test Mode :	TX /2480MHz-3Mbps	Polarization :	Horizontal
Test Frequency	2.4835GHz-2.5GHz		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	2000000
2483.5	74.93	-12.78	62.15	74	11.85	peak
2483.5	54.56	-12.78	41.78	54	12.22	AVG
2491.6	72.56	-12.78	59.78	74	14.22	peak
2491.6	56.43	-12.78	43.65	54	10.35	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

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3. NUMBER OF HOPPING CHANNEL

3.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C							
Section	Test Item	Limit	Frequency Range (MHz)	Result			
15.247 (a)(1)(iii)	Number of Hopping Channel	≥15	2400-2483.5	PASS			

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 kHz
VB	300 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

3.1.1 TEST PROCEDURE

3.1.2 DEVIATION FROM STANDARD

No deviation.

3.1.3 TEST SETUP



3.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4, Unless otherwise a special operating condition is specified in the follows during the testing.

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a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

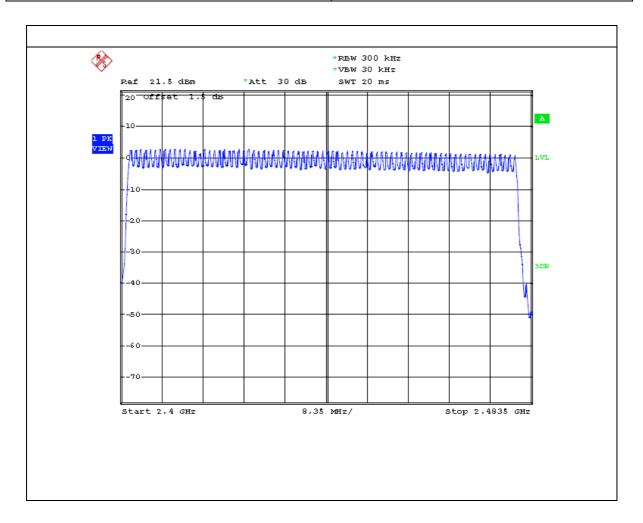
b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = Auto.

FCC ID: X9PKB6006I

3.1.5 TEST RESULTS

EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa		
Test Voltage :	AC 120V 60Hz	Test Date	June 16, 2013
Test Mode :	Hopping Mode		

Number of Hopping Channel	79
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FCC ID: X9PKB6006I

4. AVERAGE TIME OF OCCUPANCY

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS

4.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH1 Dwell time = Pulse time*(1600/2/79)*31.6S
 - DH3 Dwell time = Pulse time*(1600/4/79)*31.6S
 - DH5 Dwell time = Pulse time*(1600/6/79)*31.6S

4.1.2 DEVIATION FROM STANDARD

No deviation.

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4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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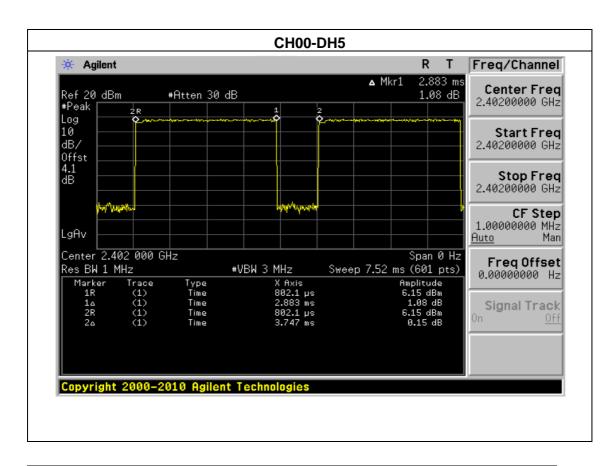
FCC ID: X9PKB6006I

4.1.5 TEST RESULTS

The worst case is DH5, the test data as following:

	Bluetooth Keyboard		KB6006I
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa		
Test Voltage :	AC 120V 60Hz	Test Date	June 16, 2013
Test Mode :	DH5		

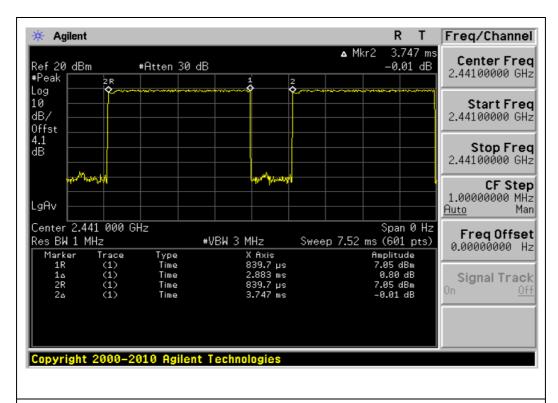
Frequency	Dwell Time (S)	Limits (S)
2402MHz	0.3075	0.4
2441MHz	0.3075	0.4
2480MHz	0.3075	0.4

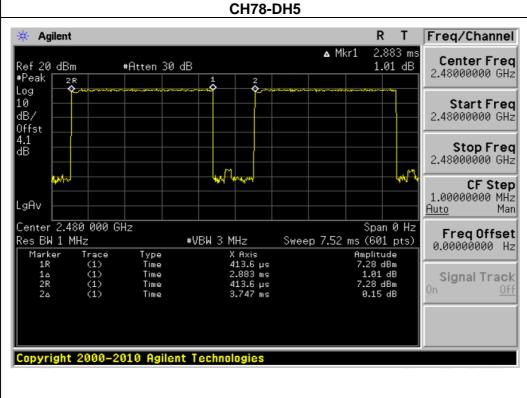


CH39-DH5

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FCC ID: X9PKB6006I

5. HOPPING CHANNEL SEPARATION MEASUREMENT

5.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

Spectrum Parameter	Setting	
Attenuation	Auto	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB	100 kHz (Channel Separation)	
VB	300 kHz (Channel Separation)	
Detector	Peak	
Trace Max Hold		
Sweep Time	Sweep Time Auto	

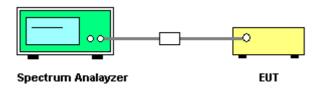
5.1.1 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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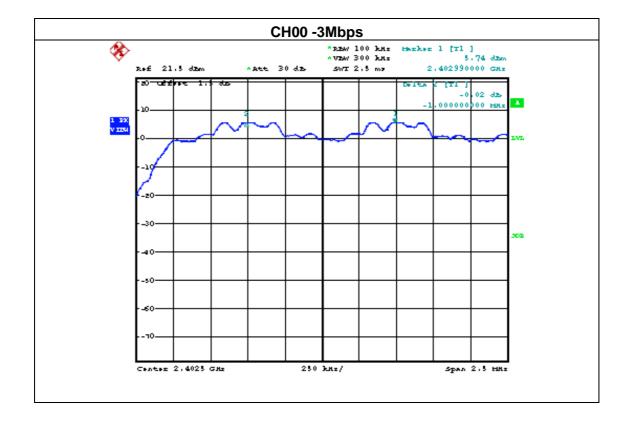
5.1.5 TEST RESULTS

The worst case is 3Mbps, the test data as following:

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EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature :	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Result	Pass
Test Voltage :	AC 120V 60Hz	Test Date	June 16, 2013
Test Mode :	CH00 / CH39 /CH78 (3Mbps Mode)		

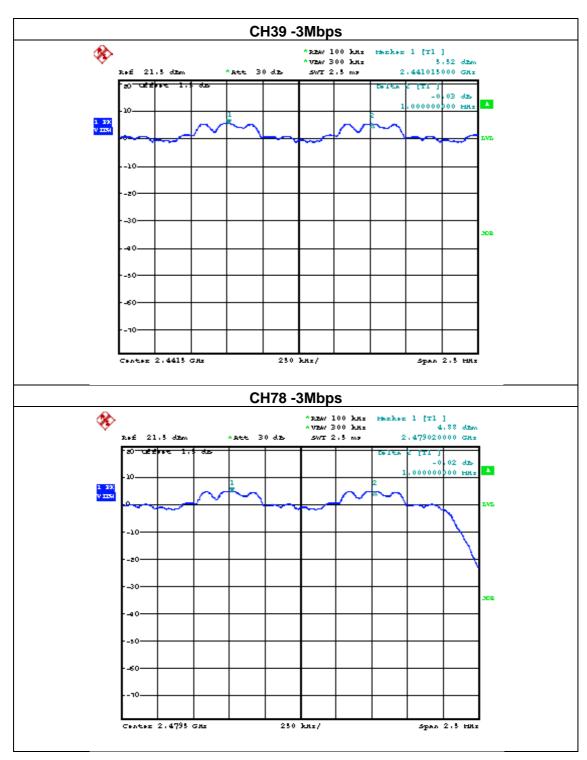
Channel number	Channel frequency	Separation Read value	Separation limit
	(MHz)	(KHz)	2/3 20db BW(KHz)
00	2402	1000.00	>808.00
39	2441	1000.00	>816.00
78	2480	1000.00	>818.67

Note: 20db bandwith refer to section 6.1.5.



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FCC ID: X9PKB6006I

6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

311 711 1 Eleb 1 110 0 E B 011 E D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
	FCC Part15 (15.247) , Subpart C					
Section Test Item Limit		Limit	Frequency Range (MHz)			
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS		

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

6.1.1 TEST PROCEDURE

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

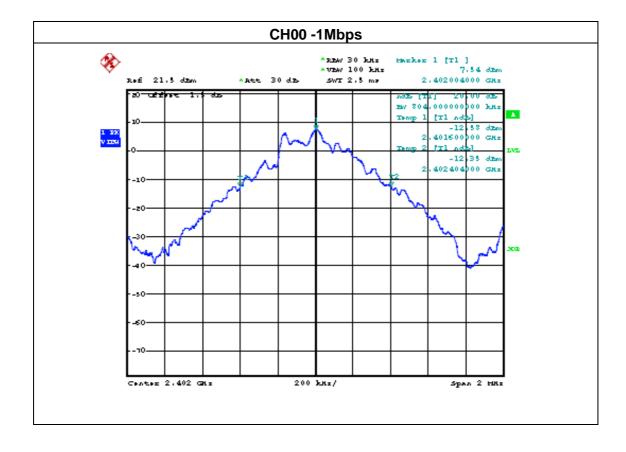
b. Spectrum Setting: RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

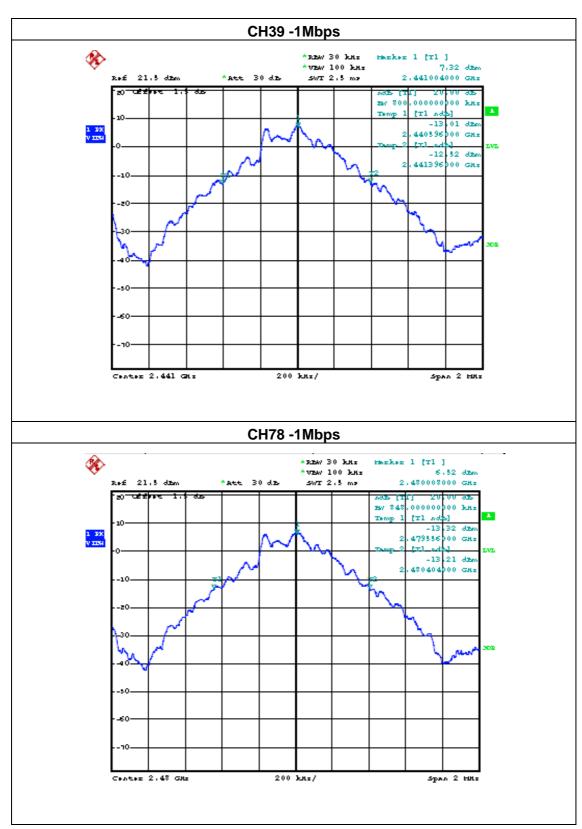
FCC ID: X9PKB6006I

6.1.5 TEST RESULTS

EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Mode :	CH00/CH39/C78(1Mbps)
Test Voltage :	AC 120V 60Hz	Test Date	June 16, 2013

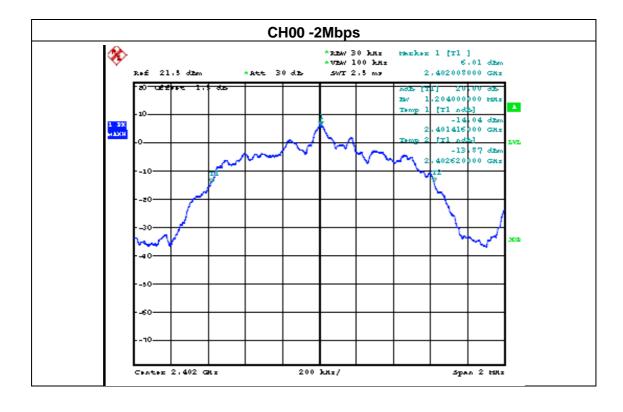
Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	804	PASS
2441 MHz	800	PASS
2480 MHz	848	PASS

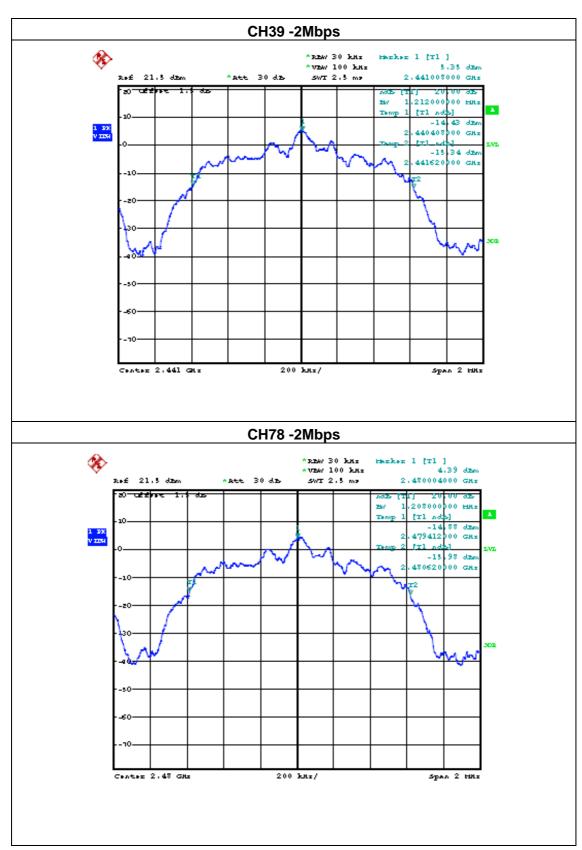




EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature:	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Mode :	CH00/CH39/C78(2Mbps)
Test Voltage :	AC 120V 60Hz	Test Date	June 16, 2013

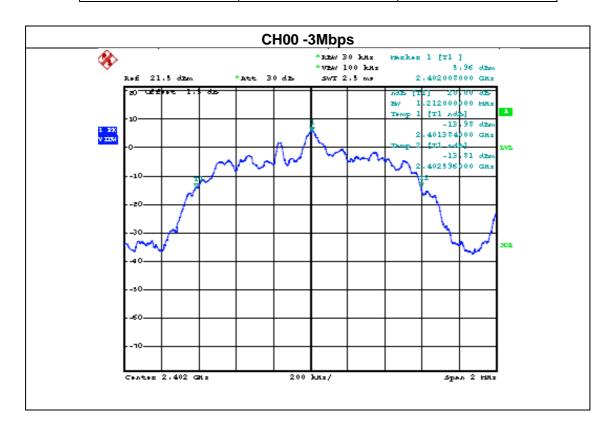
Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	1204	PASS
2441 MHz	1212	PASS
2480 MHz	1208	PASS

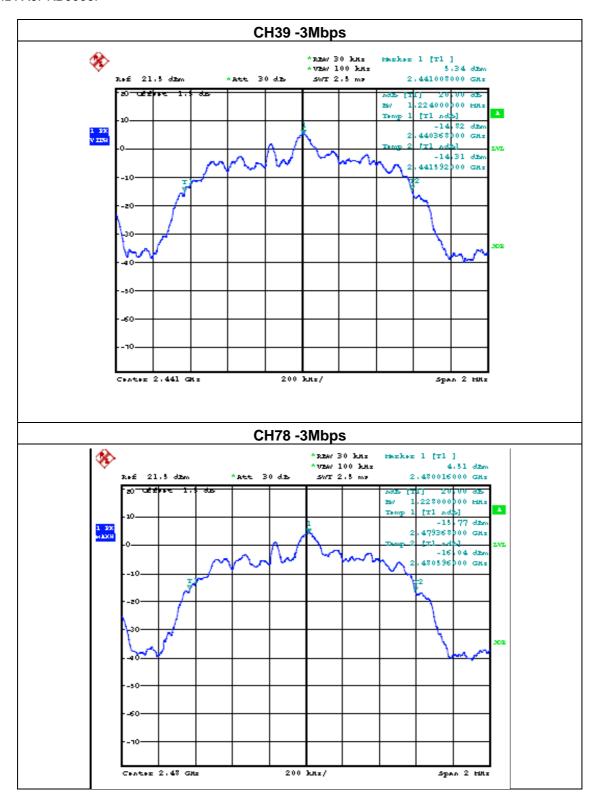




EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Mode :	CH00/CH39/C78(3Mbps)
Test Voltage :	AC 120V 60Hz	Test Date	June 16, 2013

Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	1212	PASS
2441 MHz	1224	PASS
2480 MHz	1228	PASS





FCC ID: X9PKB6006I

7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C					
Section Test Item Limit			Frequency Range (MHz)	Result		
15.247 (b)(i)	Peak Output Power	0.125 w or 20.96dBm	2400-2483.5	PASS		

7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. Setting: RBW ≥ the 20 dB bandwidth of the emission being measured

Span ≥ approximately 3 times the 20 dB bandwidth, centered on a hopping channel

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

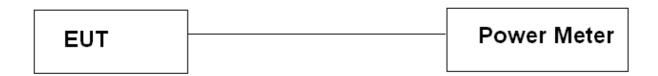
Trace = max hold

Note: The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

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7.1.5 TEST RESULTS

EUT:	Bluetooth Keyboard	Model Name :	KB6006I
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Mode :	CH00/ CH39 /CH78 (1Mbps/2Mbps/3Mbps Mode)
Test Voltage :	AC 120V 60Hz	Test Date	June 16, 2013

	1Mbps					
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT(dBm)	Result		
CH00	2402	3.45	20.96	Pass		
CH39	2441	3.63	20.96	Pass		
CH78	2480	3.22	20.96	Pass		
	2Mbps					
CH00	2402	3.13	20.96	Pass		
CH39	2441	3.04	20.96	Pass		
CH78	2480	2.97	20.96	Pass		
	3Mbps					
CH00	2402	3.06	20.96	Pass		
CH39	2441	3.02	20.96	Pass		
CH78	2480	3.03	20.96	Pass		

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8. ANTENNA APPLICATION

9.1 Antenna requirement

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and 15.247

FCC part 15C section 15.247 requirements: Systems operating in the 2402-2480MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

9.2 Result

The EUT's antenna integrated on PCB, The antenna's gain is 1.87 dBi and meets the requirement.

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9. EUT TEST PHOTO

CONDUCTED EMISSION Photos





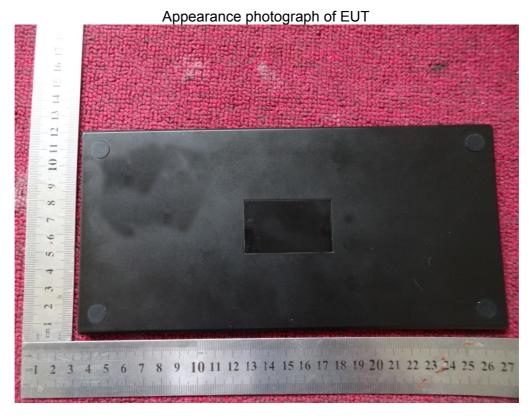


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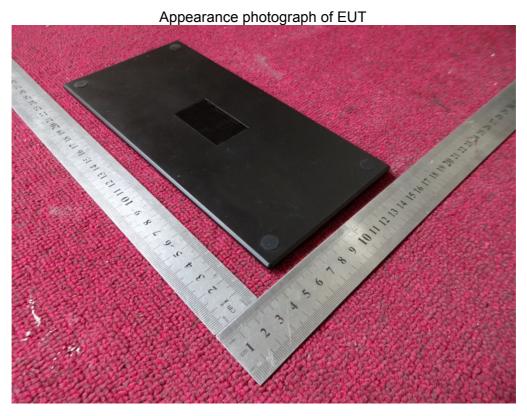
10. PHOTOGRAPHS OF EUT





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