

FCC Radio Test Report FCC ID: VYVPA-BK07

This report concerns (check one): ■Original Grant □Class II Change

For

Bluetooth 3.0 Keyboard

Model Name: PA-BK07

Brand Name: ITON

Report No.: ENC110808GZ39F1

Date of Issue: Aug.10, 2011

Prepared For

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1. CERTIFICATION

Applicant:	Iton Technology Limited
Address:	Rooms 1318-20, 13/F, Hollywood Plaza, 610 Nathan Road, Mongkok, Kow loon, Hong Kong
Manufacturer/Factory: Iton Technology Limited	
Address: Room 1301, Block A, Building 1, Tianan Cyber Park, Huang Longgang District, Shenzhen, China	
Product Description: Bluetooth3.0 Keyboard	
Brand Name: ITON	
Model Number:	PA-BK07 4 0 4 0 4 0 4
FCC ID:	VYVPA-BK07
Report Number:	ENC110808GZ39F1
Date of Test:	Aug.6, 2011~Aug.10, 2011
Standards: FCC Part15, Subpart C(15.247)/ANSI C63.4: 2003	

WE HEREBY CERTIFY THAT:

East Notice Certification

The above equipment was tested by East Notice Certification Service Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4 (2003) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

Checked By Yem 3

Yemig Aug.10, 2011

Authorized By_____

Ray Zhou Aug. 10, 2011



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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247), Subpart C				
Standard Section	tion Test Item		Remark	
15.207	Conducted Emission	PASS	OF T	
15.247(c)	Antenna conducted Spurious Emission	PASS	Ó	
15.247(a)(1)	Hopping Channel Separation	PASS	,04	
15.247 (b)(1)	Peak Output Power	PASS	D. A.	
15.247 (c)	Radiated Spurious Emission	PASS	0	
15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS	200	
15.247(a)(1)(iii)	Dw ell Time	PASS	<i>\phi</i>	
15.205	Restricted Bands	PASS	00	
15.203	Antenna Requirement	PASS	A. 7	
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	PASS	04	

NOTE:

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

Fail: The EUT does not comply with the essential requirements in the standard.

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **GZ-C03/ GZ-C02** at the location of Guangdong Environment Radiation Inspection Centre, No. 860, South Guangzhou Avenue, Guangzhou 510300, China

FCC register No.: 429353

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}_7$ where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}_7$ providing a level of confidence of approximately 95%.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
GZ-C03	CISPR	150 KHz ~ 30MHz	1.94	3047

B. Radiated Measurement:

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Test Site	Method	Measurement Frequency Range	Ant. H/V	U, (dB)	NOTE
GZ-C02	CISPR	30MHz ~ 200MHz	V	3.82	
40	40	30MHz ~ 200MHz	HO	3.60	4
4 30	147	200 MHz ~ 1,000 MHz	04V	3.86	04
4	4	200 MHz ~ 1,000 MHz	н∜	3.94	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Product Name	Bluetooth 3.0 Keyboard
Model Name	PA-BK07
Model Discrepancy:	NA A A A A
Operation Frequency	2402MHz~2480MHz
No. of Channel	79 4 04 04 04
Channel separation:	1MHz 4 4 4
Modulation type	FHSS
Antenna Type:	Integral
Antenna gain:	1.82dBi
Output Power	-4.61dBm
Channel List	Please refer to the Note 2.
Power Source	DC 5V by USB port/ DC 3.7V by battery
Power Rating	Li-ion battery, 3.7Vdc
Connecting I/O Port(s)	Please refer to the User's Manual
Products Covered	NA AO AO AO

Note:

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

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Note 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	2431	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	9 43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	9 47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	<u>51</u>	2453	78	2480
25	2427	52	2454		115
26	2428	53	2455		04 704

Note 3: Table for Filed Antenna

4	Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
	1 🌳	- 4	y - 47	PRINTED ANT	N/A	1.82	BTAntenna

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3.2 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 (1 Mbps) EUT only
4	Mode 2	CH39 (1 Mbps) EUT only
45	Mode 3	CH78 (1 Mbps) EUT only
,0	Mode 4	Charging C

The EUT system operated these modes were found to be the worst case during the pre-scanning test as Following:

For Conducted Emission		
Final Test Mode Description		
Mode 4	Charging (DC 5V From PC)	

For Radiated Emission				
Final Test Mode	Description			
Mode 1	CH00 (1 Mbps) EUT only			
Mode 2	CH39 (1 Mbps) EUT only			
Mode 3	CH78 (1 Mbps) EUT only			

Note

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(1) The measurements are performed at the highest, middle, low est available channels.

3.3 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: Bluetest.exe				
Frequency	2402 MHz	2441 MHz	2480 MHz		
Parameters-1Mbps	3	A3 A	3		

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160	Part &	14.50	14.8%	16.00	field.
		F-1			
		E-1 EUT			
		EUI			

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3.5 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.

1 1467	(140) (14	() 6.24	60 6340	6.3 462	1.340	1461
Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Bluetooth3.0 Keyboard	ITON	PA-BK07	VYVPA-BK07	N/A	EUT
145	,045,04	35 ,0.	5°,04°	,045	,045	045
	8 4 T	De la Company	4 4	5 4	4	
, and	0 30	- i	-i-	ک کشیر ۲	40	A Aires
14	2000 201	D 200	\$ 500	204	200 ×	04

Item	Shielded Type	Ferrite Core	Length Note	Note
14)	304 304	200	200	204, 304, 304,
4	4	4	\$ \$	4
LAST.	000 00	F CAF	000	CAT CAT CAT
	The state of the s	A. T.	at a	
, (5 ,6	,0	6, 6	,0 ,0 ,0

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.

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)	Class B	Standard	
	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.

4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	05/28/2012
2	LISN	Rolf Heine	NNB-2-16Z	99044	05/28/2012
3	50Ω Terminator	SHX	TF2-3G-A	08122901	05/28/2012
4	Transient Limiter	Agilent	11947A	3107A03668	05/28/2012
5	Test Cable	N/A	C-06_C03	N/A	05/28/2012
6	Emi Test Receiver	R&S	ESCS30	8333641017	05/28/2012

Remark: "N/A" denotes No Model No., Serial No. or No Calibration specified.

Receiver Parameters Setting

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

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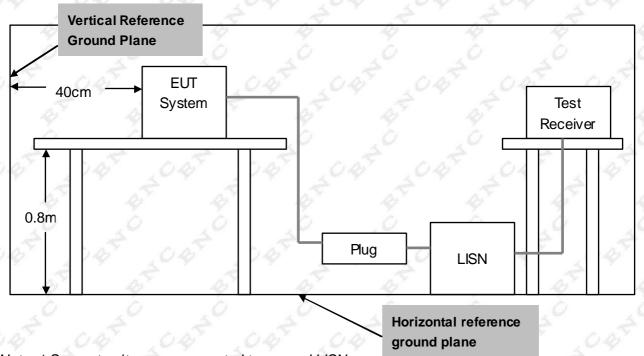
4.1.3 TEST PROCEDURE

- a) The EUT was placed 0.8 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.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 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 cm from other units and other metal planes Vertical Reference Ground Plane

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4.1.6 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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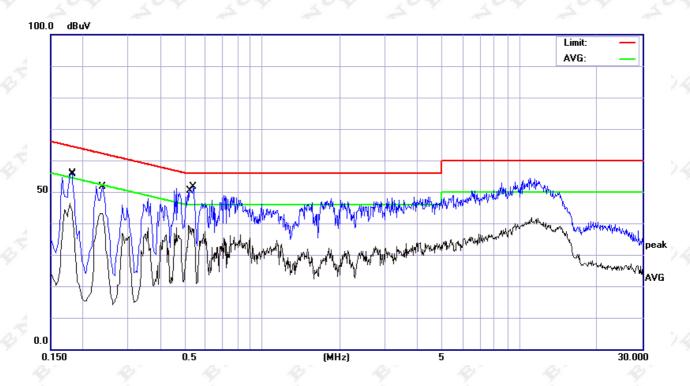
4.1.7 TEST RESULTS

EUT:	Bluetooth3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 5V From PC
Test Mode:	Charging	00 00	00 00

Freq.	Terminal	Measured(dBuV)		Limits (dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOIE
0.178	N 🔏	46.17	*	64.57	54.57	-8.40	(AVG)
0.182		55.71	04	64.39	54.39	-8.68	(QP)
0.237	N	42.99	* *	62.16	52.16	-9.17	(AVG)
0.238	N	51.41	*	62.16	52.16	-10.75	(QP)
0.517	N 🏂	39.19	*	56.00	46.00	-6.81	(AVG)
0.537	, CNO	51.42	,04	56.00	46.00	-4.58	(QP)

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.



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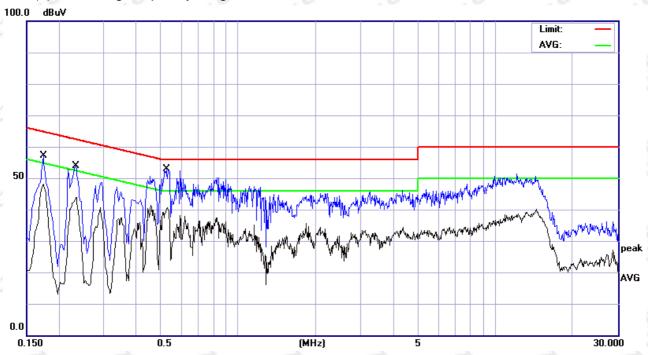
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EUT:	Bluetooth3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 5V From PC
Test Mode:	Charging		(

Freq.	Terminal	Measured(dBuV)		Limits (dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	INOIG
0.174	, L	56.91	*	64.76	54.76	-7.85	(QP)
0.174	لکیے ا	48.06	*	64.76	54.76	-6.70	(AVG)
0.233	CLA	53.79	04*	62.30	52.30	-8.51	(QP)
0.233	A. The L	43.80	*	62.30	52.30	-8.50	(AVG)
0.525	(L	52.70	*	56.00	46.00	-3.30	(QP)
0.528	لمنبر ا	40.55	*	56.00	46.00	-5.45	(AVG)

Remark:

- (1) Reading in w hich marked as QP means measurements by using are Quasi-Peak Mode w ith Detector BW=9KHz; SFA setting in RBW=10KHz, VBW =10KHz, Sw p. Time = 0.2 sec./MHz. Reading in w hich marked as AV means measurements by using are Average Mode w ith instrument setting in RBW=10KHz, VBW=10KHz, Sw p. Time =0.2 sec./MHz.
- (2) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a "*" marked in AVG Mode column of Interference Voltage Measured.
- (3) Measuring frequency range from 150KHz to 30MHz.



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4.2 RA DIATED EMISSION MEASUREMENT

4.2.1 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 follow ed. Frequencies

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	(30%) (0%)
1.705~30.0	30	30
30~88	100	6 3 6
88~216	150	3 4
216~960	049 20200 2049	204 234 204
Above 960	500	3 3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequencies (MHz)	Class A (dBu	ıV/m) (at 3M)	Class B (dBuV/m) (at 3M)		
rrequerieles (IVIII IZ)	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	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).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency general Upper frequency of measured in the device or or device operates or tune	asurement which the			Range (M	1Hz)		
Below 1.705	04	04	200	30		200	200
1.705 – 108	47	4	3	1000	4	y A	3
108 – 500	,0	. 6) ,	2000	,0	. (9
500 – 1000	000	000	00	5000	5	00	00
Above 1000	March Co.		nic of the her is lower	ighest frequ	iency	or 40 GHz	,

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4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1 🔏	Antenna	ETS	3115	00075789	05/28/2012
2	Amplifier	Agilent	8449B 3	008A02274	05/28/2012
3	Spectrum	Agilent	E4408B	US39240143	05/28/2012
4	Test Cable	HUBER+SUHNER	GZ02 High Fre	N/A	05/28/2012
5	Antenna	Schw arbeck	VULB9160	9160-3232	05/28/2012
6	Amplifier	HP	8447D	2944A09673	05/28/2012
7	Test Receiver	R&S	ESCI	100895	05/28/2012
8	Test Cable	N/A	C-01_GZ02	N/A	05/28/2012
9	Controller	СТ	SC100	N/A	N/A

Remark: "N/A" denotes No Model Name / Serial No. and No Calibration specified.

Spectrum Parameter	Setting
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

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4.2.3 TEST PROCEDURE

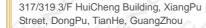
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 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.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

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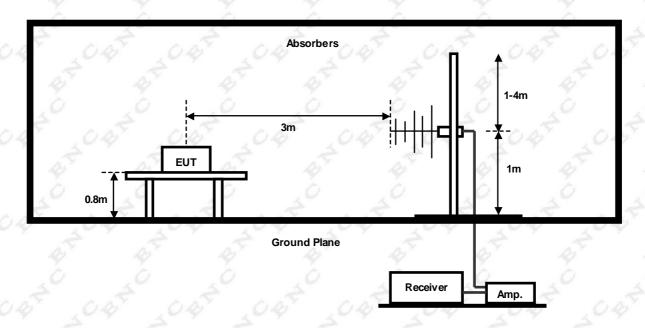
Tel:+86-020-2331 4234 E-mail: enc@ enc-lab.com Fax:+86-020-8256 8534 Http://www.enc-lab.com



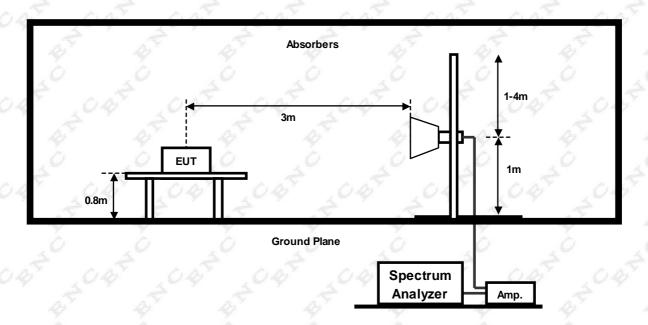
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4.2.5 TEST SET UP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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-7.34

-4.94

(QP)

(QP)

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4.2.7 TEST RESULTS (BETWEEN 9KHZ - 1000 M HZ)

17.62

18.75

EUT: 🔏	· Y	Bluetooth 3.0	Bluetooth 3.0 Keyboard			PA-BK07		
Temperature:		22~23 ℃		Relative Humidity:		50~55 %		
Pressure	:	950~1000 hP	950~1000 hPa		Test Voltage:		DC 3.7V	
Test Mod	e:	TX 2402MHz	- CH00 (1 Mbps)	2040 20	149	30	49 4	049
Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)		s(QP) uV/m)	Margin (dB)	Note
149.23	Н, у	16.56	10.87	27.43	43	3.50	-16.07	(QP)
313.65	ΔĤ Ì	18.65	12.90	31.55	46	6.00	-14.45	(QP)
389.25	H	17.39	17.92	35.31	46	00.3	-10.69	(QP)

588.21 Remark:

536.32

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Sw p. Time = 0.3 sec./MHz.

38.66

41.06

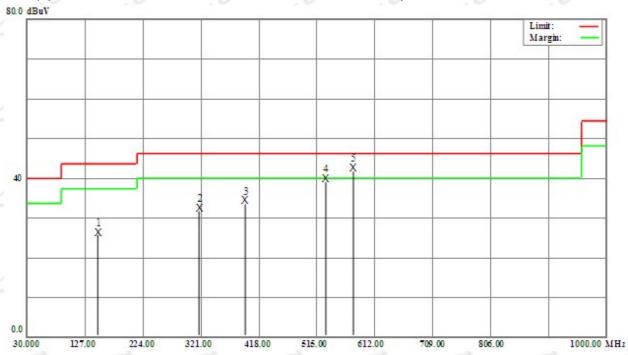
46.00

46.00

- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30 MHz to 1000 MHz.
- (4) If the peak scan value low er limit more than 20dB, then this signal data does not show in table.
- (5) Corr.Factor = Antenna Factor + Cable Loss Pre-amplifier.

21.04

22.31



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-3.81

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EUT:	The same	Bluetooth 3.0	Keyboard	Model Name:	F	PA-BK07		
Temperature:		22~23 ℃	4	Relative Humidity:		50~55 %		
Pressure	:	950~1000 hP	a v	Test Voltage:		DC 3.7V		- 5
Test Mod	e: 02	TX 2402MHz	- CH00 (1 Mbps)	00 0	10	0	D'Y	00
Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits((dBuV	2	Margin (dB)	Note
196.25	V	17.06	11.13	28.18	43.5	0	-15.32	(QP)
393.48	V	19.21	13.20	32.41	46.0	00	-13.59	(QP)
469.87	V	17.94	18.34	36.28	46.0	00	-9.72	(QP)
641.51	V	18.18	21.53	39.72	46.0	00	-6.28	(QP)
The sale			2.7				2	1

701.11 Remark:

(1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.

42.19

46.00

- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30 MHz to 1000 MHz.

19.35

- (4) If the peak scan value low er limit more than 20dB, then this signal data does not show in table.
- (5) Corr.Factor = Antenna Factor + Cable Loss Pre-amplifier.

22.83



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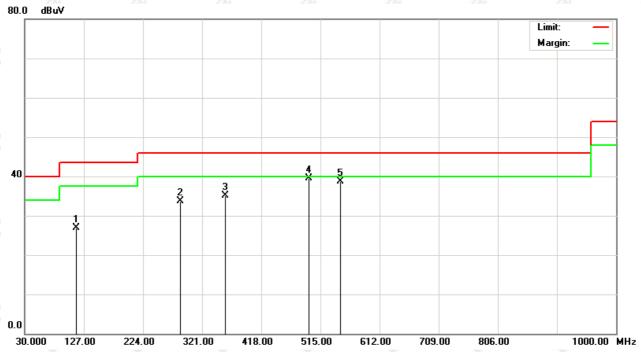


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EUT:	04	Bluetooth 3.0	Keyboard	Model Name:	100	PA-BK07		00		
Tempera	ture:	22~23 ℃	Relative Humidity: 50~55 %		Relative Humidity: 50~55 %		Relative Humidity: 50~55 %		50~55 %	
Pressure	: :	950~1000 hP	a 🦞 👋	Test Voltage:		DC 3.7V				
Test Mod	le:	TX 2441 MHz	- CH39 (1 Mbps)	40	46	1	1	5		
Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits (dBu\	4	Margin (dB)	Note		
115.51	Н	15.28	11.70	26.98	43.	50	-16.52	(QP)		
265.86	Н	20.14	13.66	33.80	46.	00	-12.20	(QP)		
359.65	, A4	19.67	15.56	35.23	46.	00	-10.77	(QP)		
496.88	₹ H	20.25	19.34	39.59	46.	00	-6.41	(QP)		
546.83	Н	15.28	23.51	38.78	46.	00	-7.22	(QP)		

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Sw p. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30 MHz to 1000 MHz.
- (4) If the peak scan value low er limit more than 20dB, then this signal data does not show in table.
- (5) Corr.Factor = Antenna Factor + Cable Loss Pre-amplifier.



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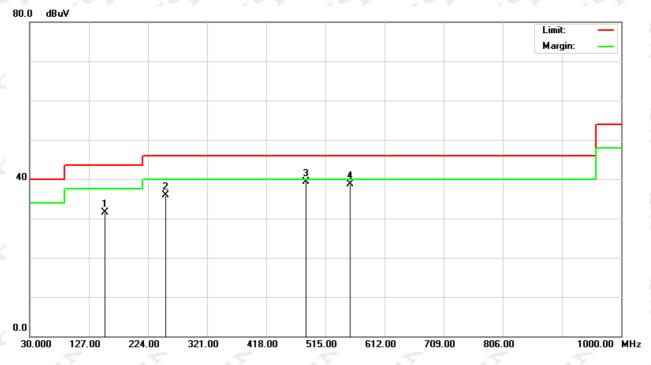


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EUT:	.04	Bluetooth 3.0	Keyboard	Model Name:	PA-BK	(07	00
Tempera	ture:	22~23 ℃	22~23 ℃		ity: 50~55	50~55 %	
Pressure:		950~1000 hP	a 🦅	Test Voltage:	DC 3.7	DC 3.7V	
Test Mod	le:	TX 2441 MHz	- CH39 (1 Mbps)	40	40	4	5
Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
153.91	V	20.02	11.44	31.46	43.50	-12.04	(QP)
253.93	V	22.40	13.57	35.97	46.00	-10.03	(QP)
484.08	V4	20.49	18.86	39.35	46.00	-6.65	(QP)
556.85	V	16.56	22.14	38.70	46.00	-7.30	(QP)

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30 MHz to 1000 MHz.
- (4) If the peak scan value low er limit more than 20dB, then this signal data does not show in table.
- (5) Corr.Factor = Antenna Factor + Cable Loss Pre-amplifier.



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EUT:	04	Bluetooth 3.0	Keyboard	Model Name:	10	PA-BK	07	00		
Tempera	ture:	22~23 ℃	22~23 ℃		Relative Humidity:		50~55 %)~55 %	
Pressure:		950~1000 hP	a 🦅	Test Voltage:		DC 3.7V				
Test Mod	le:	TX 2480MHz-	- CH78 (1 Mbps)	40	4		4	- 5		
Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)		s(QP) iV/m)	Margin (dB)	Note		
118.32	Н	14.65	12.31	26.96	43	.50	-16.54	(QP)		
286.10	Н	17.82	14.37	32.19	46	.00	-13.81	(QP)		
407.53	, û 4	18.45	16.37	34.82	46	.00	-11.18	(QP)		
571.15	₹ H	22.41	20.35	42.76	46	.00	-3.24	(QP)		
677.48	Н	14.28	24.74	39.02	46	.00	-6.98	(QP)		

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30 MHz to 1000 MHz.
- (4) If the peak scan value low er limit more than 20dB, then this signal data does not show in table.
- (5) Corr.Factor = Antenna Factor + Cable Loss Pre-amplifier.



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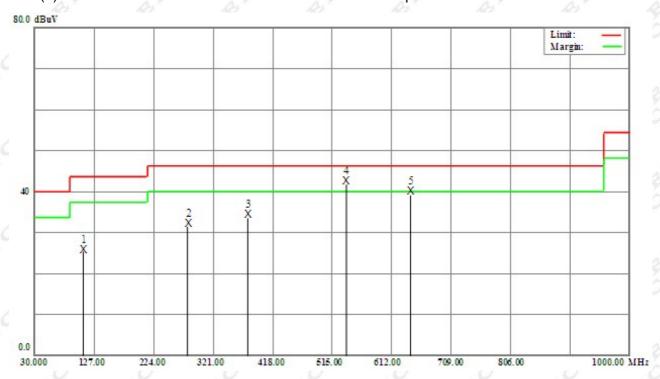


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EUT:	04	Bluetooth 3.0 I	Keyboard	Model Name:	10	PA-BK07		00
Tempera	ture:	22~23 ℃		Relative Humidity:		50~55 %		
Pressure	:	950~1000 hP	a 🦞 👋	Test Voltage:		DC 3.7V		
Test Mod	le:	TX 2480MHz-	- CH78 (1 Mbps)	40	46	/	4	4
Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits (dBu\	-	Margin (dB)	Note
113.02	V	13.88	12.46	26.34	43.	50	-17.16	(QP)
275.35	V	16.90	14.55	31.45	46.	00	-14.55	(QP)
366.63	V	17.45	16.57	34.02	46.0	00	-11.98	(QP)
534.97	V	21.18	20.60	41.78	46.	00	-4.22	(QP)
641.28	V	13.08	25.05	38.13	46.0	00	-7.87	(QP)

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30 MHz to 1000 MHz.
- (4) If the peak scan value low er limit more than 20dB, then this signal data does not show in table.
- (5) Corr.Factor = Antenna Factor + Cable Loss Pre-amplifier.



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4.2.8 TEST RESULTS (ABOV E 1000 MHZ)

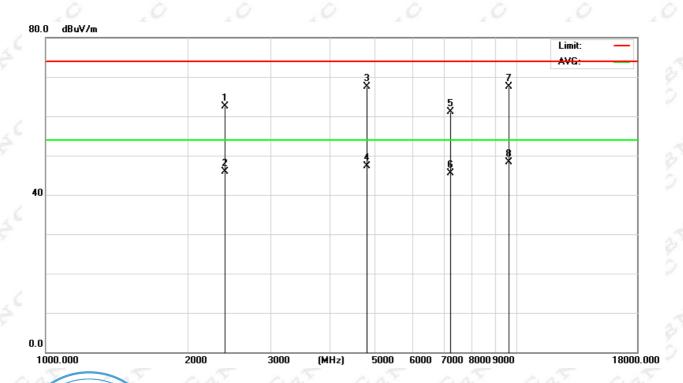
EUT:	Bluetooth 3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX 2402MHz - CH00 (1 Mbps)	,040 ,040	100 100

	req. /IHz)	Ant. H/V	Level (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
24	02.00	V	56.04	6.54	62.58	74.00	-11.42	Peak
24	02.00	V	39.39	6.54	45.93	54.00	-8.07	AVG
48	09.00	V	58.81	8.71	67.52	74.00	-6.48	Peak
48	09.00	V	38.59	8.71	47.30	54.00	-6.70	AVG
72	13.00	1V5	49.34	11.84	61.19	74.00	-12.81	Peak
72	13.00	V	33.79	11.84	45.63	54.00	-8.37	AVG
96	18.00	V	51.72	15.94	67.65	74.00	-6.35	Peak
96	18.00	V	32.49	15.94	48.42	54.00	-5.58	AVG

Remark:

(1) Factor = Antenna Factor + Cable Loss - Pre-amplifier. No emission detected above 18 GHz

TX CH00 (Above 1000 MHz, Vertical)



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EUT:	Bluetooth 3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX 2402MHz - CH00 (1Mbps)	10	

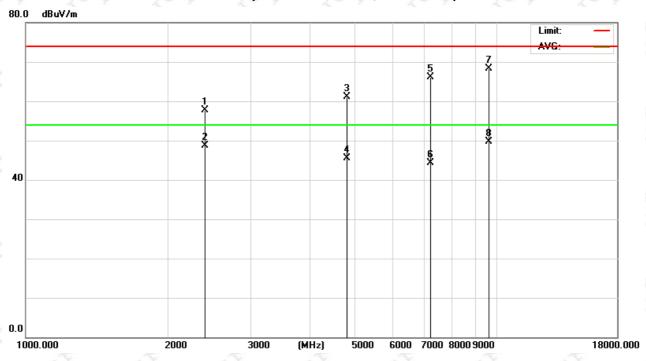
Freq. (MHz)	Ant. H/V	Level (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
2402.00	Н	51.31	6.54	57.84	74.00	-16.16	Peak
2402.00	Н	42.30	6.54	48.83	54.00	-5.17	AVG
4809.00	OH	52.41	8.71	61.12	74.00	-12.88	Peak
4809.00	Н	36.78	8.71	45.49	54.00	-8.51	AVG
7213.00	Н	54.30	11.84	66.14	74.00	-7.86	Peak
7213.00	H	32.52	11.84	44.36	54.00	-9.64	AVG
9618.00	O 1	52.53	15.94	68.47	74.00	-5.53	Peak
9618.00	Н	33.89	15.94	49.82	54.00	-4.18	AVG

Remark:

(2) Factor = Antenna Factor + Cable Loss - Pre-amplifier.

No emission detected above 18GHz

TX CH00 (Above 1000 MHz, Horizontal)



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EUT:	Bluetooth 3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX 2441 MHz -CH39(1 Mbps)	10	,0 ,0 ,

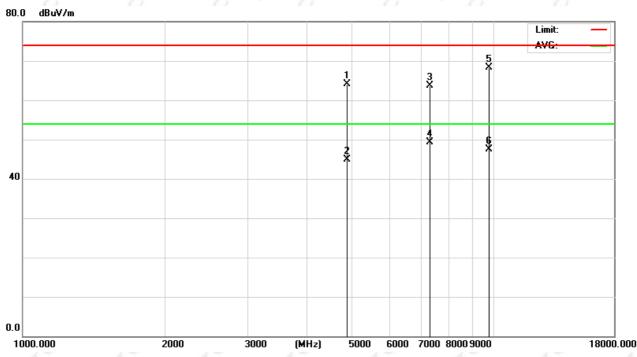
Freq.	Ant.	Level	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	ואטנט
4887.00	V	55.51	8.73	64.24	74.00	-9.76	Peak
4887.00	V	36.16	8.73	44.89	54.00	-9.11	AVG
7331.00	V	51.80	11.99	63.79	74.00	-10.21	Peak
7331.00	V	37.30	11.99	49.29	54.00	-4.71	AVG
9774.00	V	52.17	16.20	68.37	74.00	-5.63	Peak
9774.00	V	31.28	16.20	47.48	54.00	-6.52	AVG

Remark:

(1) Factor = Antenna Factor + Cable Loss - Pre-amplifier.

No emission detected above 18GHz

TX CH39 (Above 1000 MHz, Vertical)



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EUT:	Bluetooth 3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX 2441 MHz -CH39(1 Mbps)	, V	() ()

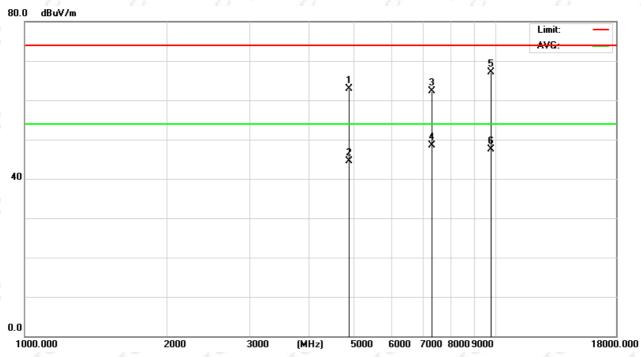
Freq.	Ant.	Level	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	00
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
4887.00	Н	54.15	8.73	62.88	74.00	-11.12	Peak
4887.00	H	35.90	8.73	44.63	54.00	-9.37	AVG
7331.00	OH)	50.31	11.99	62.30	74.00	-11.70	Peak
7331.00	Н	36.47	11.99	48.46	54.00	-5.54	AVG
9774.00	Н	51.08	16.20	67.27	74.00	-6.73	Peak
9774.00	H	31.28	16.20	47.48	54.00	-6.52	AVG

Remark:

(2) Factor = Antenna Factor + Cable Loss - Pre-amplifier.

No emission detected above 18GHz

TX CH39 (Above 1000 MHz, Horizontal)



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EUT:	Bluetooth 3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX 2480MHz -CH78(1Mbps)	10	

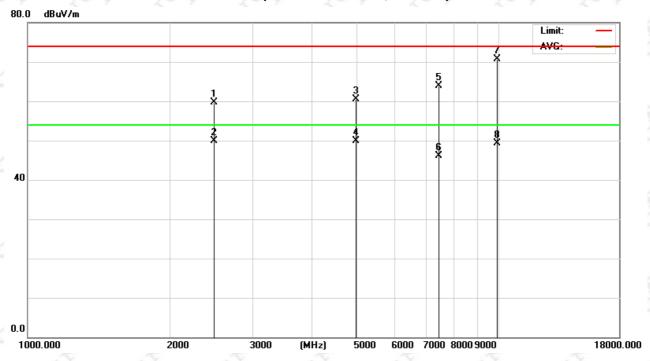
Freq. (MHz)	Ant. H/V	Level (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
2486.00	V	53.32	6.51	59.83	74.00	-14.17	Peak
2486.00	V	43.51	6.51	50.01	54.00	-3.99	AVG
4965.00	\circ V	51.92	8.74	60.66	74.00	-13.34	Peak
4965.00	V	41.28	8.74	50.01	54.00	-3.99	AVG
7448.00	V	51.83	12.15	63.98	74.00	-10.02	Peak
7448.00	V	34.06	12.15	46.21	54.00	-7.79	AVG
9930.00	V	54.22	16.47	70.69	74.00	-3.31	Peak
9930.00	V	32.92	16.47	49.38	54.00	-4.62	AVG

Remark:

(1) Factor = Antenna Factor + Cable Loss - Pre-amplifier.

No emission detected above 18GHz

TX CH78 (Above 1000 MHz, Vertical)



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EUT:	Bluetooth 3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX 2480MHz -CH78(1Mbps)	, U	

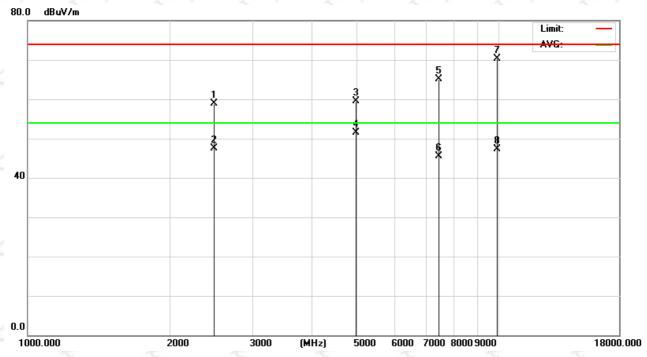
Freq.	Ant.	Level	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
2486.00	Н	52.38	6.51	58.88	74.00	-15.12	Peak
2486.00	H	41.13	6.51	47.63	54.00	-6.37	AVG
4965.00	OH)	50.92	8.74	59.66	74.00	-14.34	Peak
4965.00	Н	42.80	8.74	51.54	54.00	-2.46	AVG
7448.00	Н	52.95	12.15	65.10	74.00	-8.90	Peak
7448.00	H	33.49	12.15	45.64	54.00	-8.36	AVG
9930.00	OP	53.91	16.47	70.38	74.00	-3.62	Peak
9930.00	Н	30.79	16.47	47.26	54.00	-6.74	AVG

Remark:

(2) Factor = Antenna Factor + Cable Loss - Pre-amplifier.

No emission detected above 18GHz

TX CH78 (Above 1000 MHz, Horizontal)



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5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES / LIMIT

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

5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	118736	05/28/2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

Spectrum Parameters	Setting		
Attenuation	Auto		
Span Frequency	> Operating Frequency Range		
RB W	100 kHz		
VB V	100 kHz		
Detector	Peak		
Trace	Max Hold		
Sw eep Time	14 204 204 Auto 4 204 204		

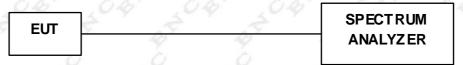
5.1.2 TEST PROCEDURE

- 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=100KHz, Sw eep time = Auto.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP



5.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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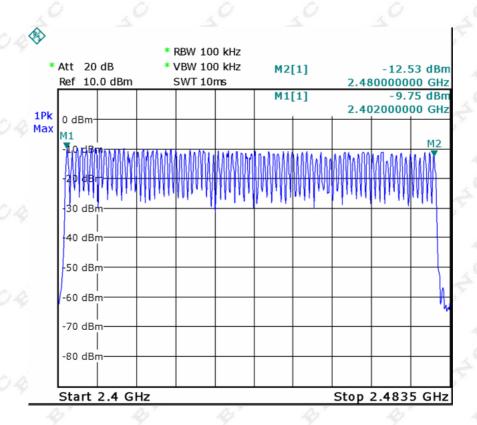
Fax:+86-020-8256 8534 Http://www.enc-lab.com



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5.1.6 TEST RESULTS

EUT:	Bluetooth 3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 °C	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 3.7V
Test Mode:	Hopping Mode -1 Mbps	700 700	704 704
Number of Hopping Channel		D' D'	479 40 4



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6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

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

6.1.1 MEASUREMENT INSTRUMENTS LIST

ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	118736	05/28/2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

6.1.2 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. Sw eep 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. DH5 Packet permit maximum 1600/79/6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots RX, 1 time slot TX). So, the dw ell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ within 31.6 seconds.
- k. DH1 Packet permit maximum 1600 / 79 / 2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dw ell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ w ithin 31.6 seconds.

6.1.3 DEVIATION FROM STANDARD

No deviation.

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6.1.4 TEST SETUP

EUT	4	4	4	SPECTRUM
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6.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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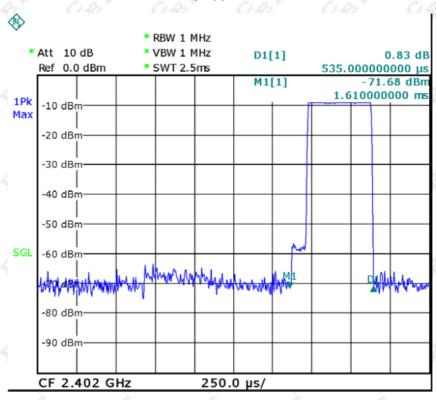
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6.1.6 TEST RESULTS

EUT:	Bluetooth 3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 3.7V
Test Mode:	CH00-DH1/DH3/DH5-1Mbps	7040 7040	7040 7040

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2402MHz	0.535	0.171	≤0.400
DH3	2402MHz	1.895	0.303	≤0.400
DH5	2402MHz	3.115	0.332	≤0.400

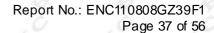
CH00- DH1



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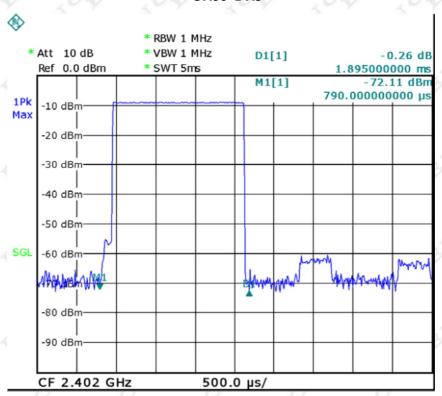


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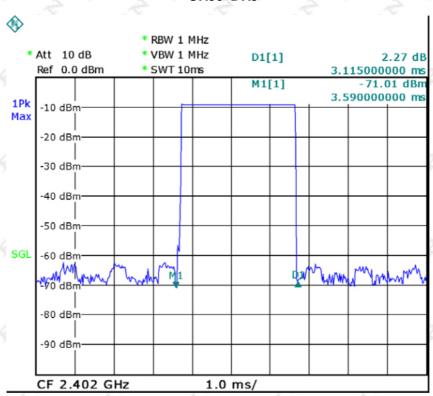




CH00-DH3



CH00-DH5



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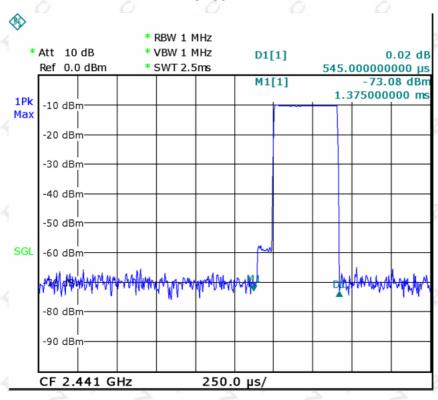


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EUT:	Bluetooth3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 3.7V
Test Mode:	CH39-DH1/DH3/DH5 -1 Mbps	40	() ()

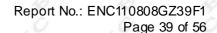
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2441 MHz	0.545	0.174	≤0.400
DH3	2441 MHz	1.805	0.289	≤0.400
04) DH5 04)	2441 MHz	3.175	0.339	≤0.400

CH39-DH1



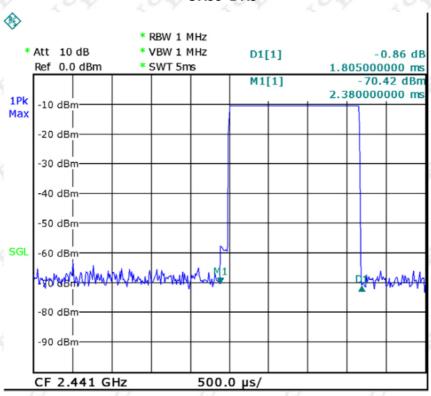
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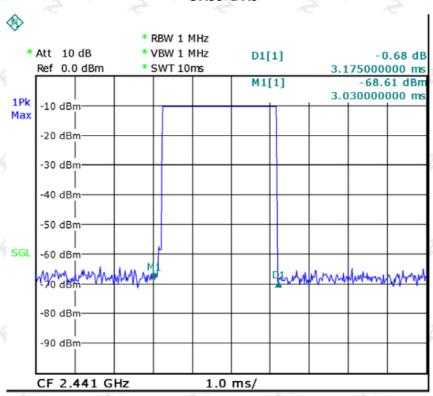




CH39-DH3



CH39-DH5



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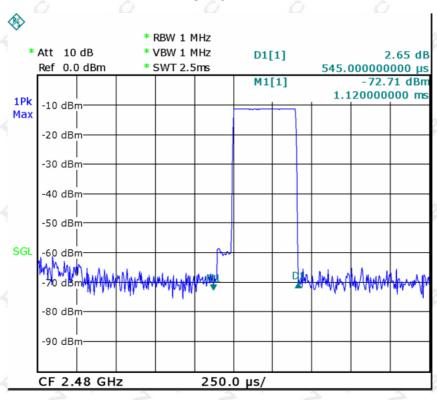


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EUT:	Bluetooth3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 3.7V
Test Mode:	CH78-DH1/DH3/DH5-1Mbps	40	, , , , ,

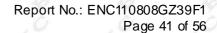
Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2480 MHz	0.545	0.174	≤0.400
DH3	2480 MHz	1.835	0.294	≤0.400
04 DH5 04	2480MHz	3.215	0.343	≤0.400

CH78-DH1



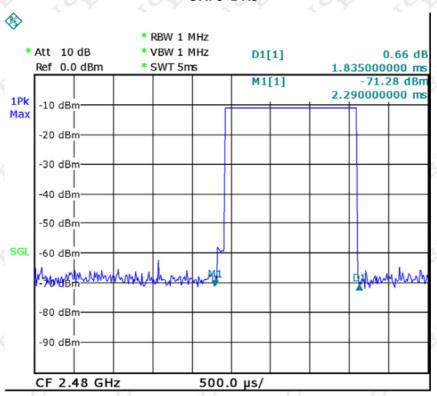
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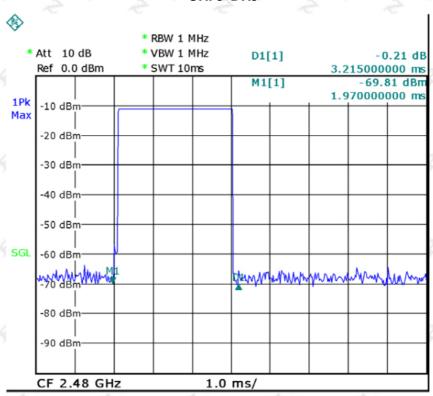




CH78-DH3



CH78-DH5



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7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 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.

7.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	118736	05/28/2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

Spectrum Parameter	Setting	
Attenuation	Auto 4 LO4 LO4 LO4	
Span Frequency	> Measurement Bandwidth or Channel Separation	
RB A	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)	
VB	100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)	
Detector Peak Trace Max Hold		
Sw eep Time	Auto	

7.1.2 TEST PROCEDURE

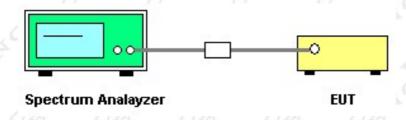
- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
- c. The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP

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7.1.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

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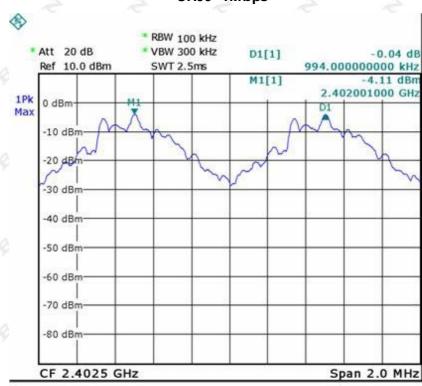
7.1.6 TEST RESULTS

EUT:	Bluetooth3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 3.7V
Test Mode:	CH00 / CH39 /CH78-1 Mbps	7000 7000	7040 7040

Frequency	Ch. Separation (kHz)	20d Bandwidth B (kHz)	Result
2402 MHz	994.0	846.3	Complies
2441 MHz	998.0	838.3	Complies
2480MHz	997.0	846.3	Complies

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth

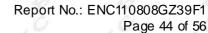
CH00 -1Mbps



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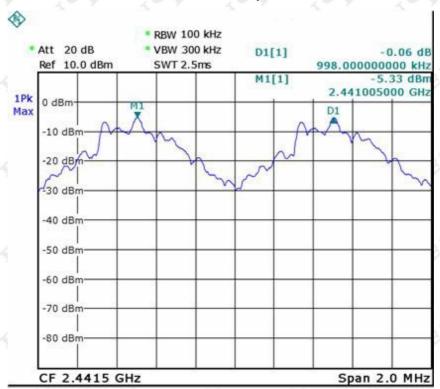


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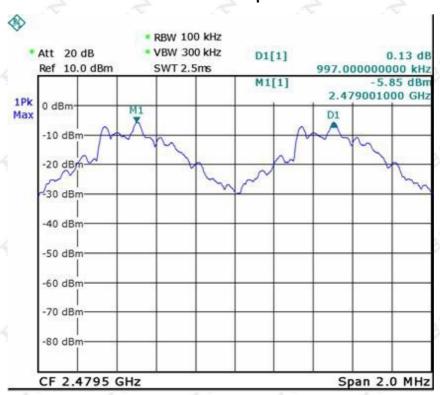




CH39 -1Mbps



CH78 -1Mbps



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8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section Test Item Limit Frequency Range (MHz)					
15.247 (a)(2)	Bandw idth	≤ 1 MHz (20dB bandw idth)	2400-2483.5	PASS	

8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	SpectrumAnalyzer	R&S	FSP40	118736	05/28/2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

Spectrum Parameters	Setting
Attenuation	14 04 04 Auto 4 04 04
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
VB	100 kHz (20dB Bandw idth) / 300 kHz (Channel Separation)
Detector	14 04 04 Peak 4 04 04
Trace	Max Hold
Sw eep Time	Auto

8.1.2 TEST PROCEDURE

- 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= 10KHz, VBW=100KHz, Sweep time = Auto.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



8.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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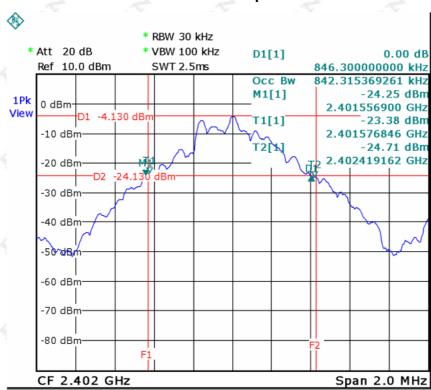
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8.1.6 TEST RESULTS

EUT:	Bluetooth3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 3.7V
Test Mode:	CH00 / CH39 /CH78-1 Mbps	7000 7000	7040 7040

Frequency	20dB Bandwidth (KHz)	Channel Separation (MHz)	Result
2402MHz	846.30	≤ 1MHz	PASS
2441 MHz	838.30	≤ 1MHz	PASS
2480MHz	846.30	≤ 1MHz	PASS

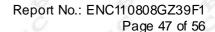
CH00 -1Mbps



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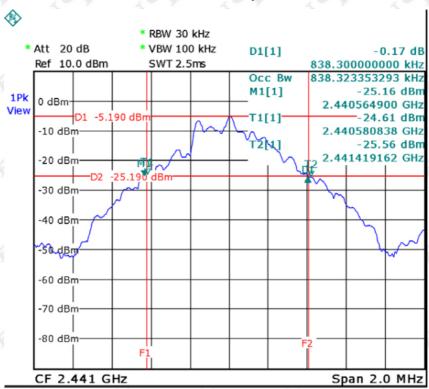


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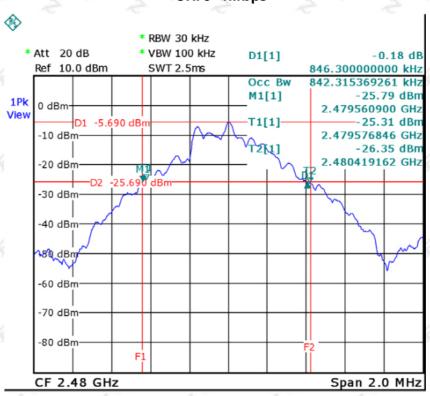




CH39 -1Mbps



CH78 -1Mbps



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9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247), Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247 (b)(1)	Peak Output Pow er	1 w att or 30dBm	2400-2483.5	PASS		

9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

I	ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP40	118736	05/28/2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

9.1.2 TEST PROCEDURE

- 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= 1MHz, VBW= 1MHz, Sw eep time = Auto.

9.1.3 DEVIATION FROM STANDARD

No deviation.

9.1.4 TEST SETUP

East Notice Certification



9.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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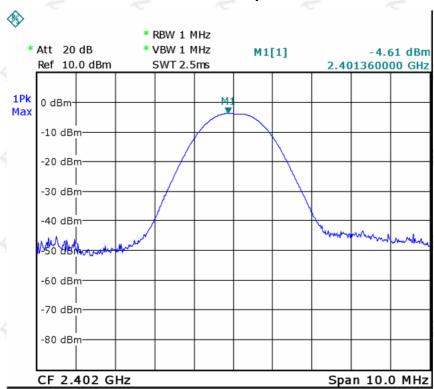
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9.1.6 TEST RESULTS

EUT:	Bluetooth 3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 3.7V
Test Mode:	CH00/ CH39 / CH78 - 1 Mbps	1040 1040	7040 7040

Ī	Test Channel	Frequency	Peak Output Power	LIMIT	LIMIT
L		(MHz)	(dBm)	(dBm)	(W)
l	CH00	2402	-4.61	30	2 124
L	CH39	2441	-5.34	30	D 1 4
	CH78	2480	-5.49	30	61 8

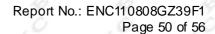
CH00 -1Mbps



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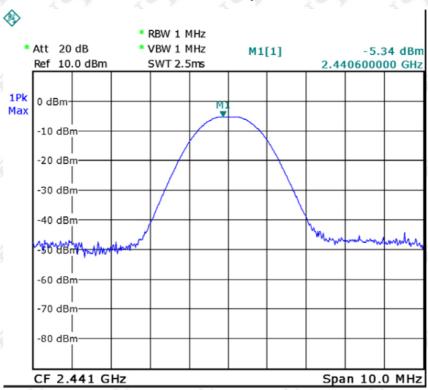


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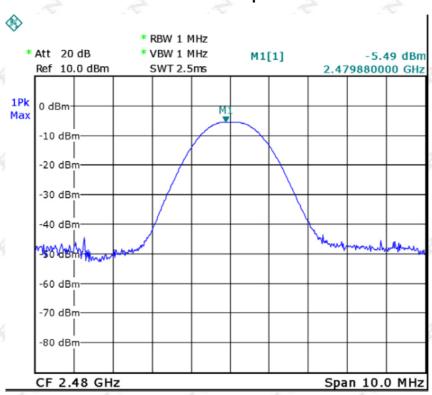




CH39 -1Mbps



CH78 -1Mbps



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10. ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 APPLIED PROCEDURES / LIMIT

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 (MHz)	Field Strength (micorvolts <i>I</i> meter)	Measurement Distance (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 6
88~216	150	3
216~960	200	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Above 960	500	3 0

10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Š	ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP40	118736	05/28/2012

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

The following table is the setting of the spectrum analyzer.

Spectrum Parameter	Setting		
Attenuation	Auto		
Span Frequency	100 MHz		
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average		
RB / VB (other emission)	100 KHz /100 KHz for Peak		

10.1.2 TEST PROCEDURE

- 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=100KHz, Sw eep time = Auto.

10.1.3 DEVIATION FROM STANDARD

No deviation.

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10.1.4 TEST SETUP

EUT	4	4	47	SPECTRUM
Marin .	- S	à C	-i	ANALYZER

10.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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10.1.6 TEST RESULTS

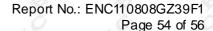
EUT:	Bluetooth 3.0 Keyboard	Model Name:	PA-BK07
Temperature:	22~23 ℃	Relative Humidity:	50~55 %
Pressure:	950~1000 hPa	Test Voltage:	DC 3.7V
Test Mode:	CH00 / CH78-1 Mbps	00 00	04 04

Popult 4			
2386.09	-60.64	2484.82	-53.91
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
The max. radio frequency power in any 100kHz bandw idth outside the frequency band		The max. radio frequency pow er in any 100 kHz bandw idth w ithin the frequency band.	

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

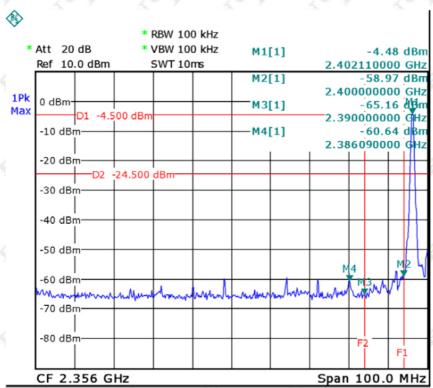
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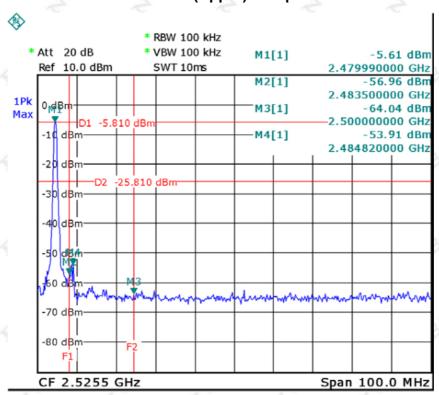




CH00 (Lower) -1M bps



CH 78 (Upper) -1Mbps



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11. PHOTOGRAPHS OF TEST SETUP

Photographs-Conducted Emission Test Setup



Photographs-Radiated Emission Test Setup



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Photographs-Radiated Emission Test Setup



----END OF REPORT----

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