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FCC RADIO TEST REPORT FCC ID: 2AEV3DW-PSW04

Product: Wireless computer switch

Trade Name: DIEWU

Model Name: DW-PSW04+

Serial Model: N/A

Prepared for

Shenzhen DIEWU Technology Co.,Ltd

Xihuan Road 2147, Shasan, Shajing Street, Baoan District, Shenzhen, Gunagdong, China

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name	. Shenzhen DIE	EWU Technology Co.,Ltd	
Address	. Xihuan Road 2147, Shasan, Shajing Street, Baoan District, Shenzhen, Gunagdong, China		
Manufacture's Name	. Shenzhen DIE	EWU Technology Co.,Ltd	
Address	. Xihuan Road 2 Gunagdong, C	2147, Shasan, Shajing Street, Baoan Di China	strict, Shenzhen,
Product description			
Product name	. Wireless comp	puter switch	
Model and/or type reference	DW-PSW04+		
Additional Model	. N/A		
Standards	FCC Part15.2	47	
Test procedure	. ANSI C63.4-2	003	
	liance with the	sted by ATT, and the test results show th FCC requirements. And it is applicable	
This report shall not be rep	roduced excep	t in full, without the written approval of A	ATT, this
•	or revised by AT	T, personal only, and shall be noted in t	he revision of the
document.			
Date of Test		, 16 2015 ~May, 27 2015	
Date (s) of performance of Date of Issue			
Test Result	Pas	S	
Testing E	ngineer :	Jack Yn	
		(Jack Yu)	
Technical	Manager :	Jerry You	
		(Jerry You)	
Authorize	ed Signatory :	(an live	

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(Can Liu)



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1. 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	N/A			
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:

(1)" N/A" denotes test is not applicable in this Test Report



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1.1 TEST FACILITY

Asia Institute Technology (DongGuan) Limited

No. 22, JinQianLing Street 3, JiTiGang Village, Huang-Jiang Town, DongGuan, Guangdong, 523757 China

FCC Registration No.: 248337

1.2 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	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%



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2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless computer switch		
Model Name	DW-PSW04+		
Serial number	DW011943		
Serial Model	N/A		
Model Difference	N/A		
Product Description	exhibited in User's Manu	2402~2480 MHz GFSK 1Mbps 79 CH Please see Note 3. 4.48 dBm PK n, features, or specification all, the EUT is considered as an More details of EUT technical	
Channel List	Please refer to the Note	2.	
Ratings	3.0Vdc (Button battery)		
Adapter	N/A		
Battery	DC 3.0V		
Connecting I/O Port(s)	Please refer to the User's Manual		
hardware version	FRKJ_SET_01		
Software version	V1.1		

Note:

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

2.

	Channel List				
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457



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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						
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	02	2404	29	2431	56	2458
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	03	2405	30	2432	57	2459
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	04	2406	31	2433	58	2460
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	05	2407	32	2434	59	2461
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	06	2408	33	2435	60	2462
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	07	2409	34	2436	61	2463
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 24	08	2410	35	2437	62	2464
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	09	2411	36	2438	63	2465
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	10	2412	37	2439	64	2466
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	11	2413	38	2440	65	2467
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 2454 78 2480	12	2414	39	2441	66	2468
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	13	2415	40	2442	67	2469
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	14	2416	41	2443	68	2470
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	15	2417	42	2444	69	2471
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	16	2418	43	2445	70	2472
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	17	2419	44	2446	71	2473
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	18	2420	45	2447	72	2474
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	19	2421	46	2448	73	2475
22 2424 49 2451 76 2478 23 2425 50 2452 77 2479 24 2426 51 2453 78 2480 25 2427 52 2454	20	2422	47	2449	74	2476
23 2425 50 2452 77 2479 24 2426 51 2453 78 2480 25 2427 52 2454	21	2423	48	2450	75	2477
24 2426 51 2453 78 2480 25 2427 52 2454	22	2424	49	2451	76	2478
25 2427 52 2454	23	2425	50	2452	77	2479
	24	2426	51	2453	78	2480
26 2428 53 2455	25	2427	52	2454		
	26	2428	53	2455		

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	PCB Antenna	N/A	0	



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2.2 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	
1	/	

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. the EUT use new battery.
- (2) Measurements are performed according to the Public Notice-DA 00-705.
- (3) The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudorandomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitter signals.

Example:

Frequency used:2402 - 2480 MHz 79 Channels (Ch 0 - Ch 78) Hopping Sequence in Data Mode

 $55,48,26,33,52,35,50,65,54,67,15,08,64,49,66,53,22,25,63,04,41,05,24,43,73,07,75,28,56,37,60,39,58,69,16,40,21,44\\23,42,13,17,46,02,51,03,11,29,77,47,62,27,71,10,68,32,57\\12,59,72,30,76,31,18,74,61,14,70,36,06,09,45,19,20,34,38\\78,00,01$

From the hopping sequence, each frequency has be used equally on the average by each transmitter. RX bandwidth=1MHz



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2.3 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: Broadcom			
Frequency	2402 MHz 2441 MHz 2480 MHz			
Parameters(1Mbps)	DEF	DEF	DEF	

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

RE	
	E-1
	EUT



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2.5 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	Brand	Model/Type No.	Series No.	Note
E-1	Wireless computer switch	DIEWU	DW-PSW04+	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note

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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2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

NO	Equipment	Model	Serial	Manufacturer	Cal DUE	Cal
	Name		Number		Date	Period
1	Signal Generator	SMR40	100541	R&S	2015.12.20	1 year
2	Horn Ant	BBHA 9170	9170-181	Schwarzbeck	2015.05.29	1 year
3	Bilog Antenna	VULB9160	3206	SCHWARZBECK	2015.12.03	1 year
4	Horn Antenna	BBHA 9120D	452	SCHWARZBECK	2015.12.03	1 year
5	Loop Antenna	HLA6120	35779	TESEQ	2015.05.29	1 year
6	RF Cable	AIT001	R001	N/A	2015.07.10	1 year
7	Coaxial Switch	MP59B	6200264417	Anritsu	2015.06.26	1 year
8	Spectrum Analyzer	R3182	150900201	ADVANTEST	2015.06.26	1 year
9	EMI Measuring Receiver	ESR	101160	R&S	2015.06.26	1 year
10	Preamplifier	MLA-10K01-B01-27	1205323	Tsj	2015.06.26	1 year
11	Preamplifier	MLA-0120-A02-34	2648A04738	Tsj	2015.06.26	1 year
12	temporary antenna connector	KYS-0944	22550510	DOKMA	2015.06.26	1 year

Note:For conducted test usered temporary antenna connector(soldered on the PCB board). And this equipment has been listed.



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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)		Standard
TREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
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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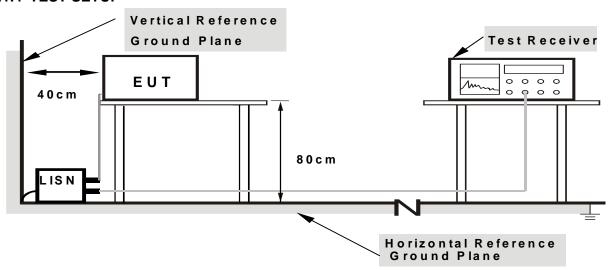
3.1.2 TEST PROCEDURE

- 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.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 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

3.1.5 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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3.1.6 TEST RESULTS

Note: Due to this EUT is powered by batteries only, this test item is not applicable.



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3.2 RADIATED EMISSION MEASUREMENT

3.2.1 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

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
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10 th carrier harmonic
RB / VB (emission in restricted	1 MHz / 1 MHz for Dook, 1 MHz / 10Hz for Average
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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3.2.2 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.

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

3.2.3 DEVIATION FROM TEST STANDARD

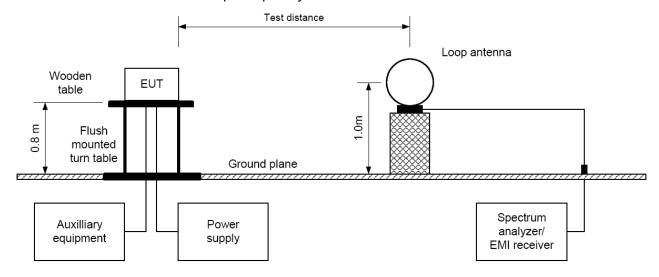
No deviation



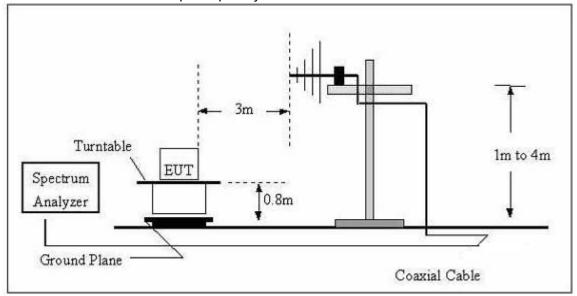
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3.2.4 TEST SETUP

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



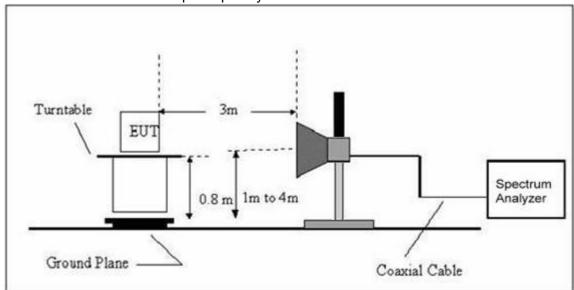
(B) Radiated Emission Test-Up Frequency 30MHz~1GHz





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



3.2.5 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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3.2.6 TEST RESULTS (BELOW 30 MHZ)

EUT:	Wireless computer switch	Model Name :	DW-PSW04+
Temperature :	20 ℃	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3V
Test Mode :	TX	Polarization :	

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

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.



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3.2.7 TEST RESULTS (BETWEEN 30M - 1000 MHZ)

EUT:	Wireless computer switch	Model Name :	DW-PSW04+
Temperature :	24 ℃	Relative Humidity:	54%
Pressure :	1010hPa	Test Mode:	TX 2402
Test Voltage :	DC 3V		

Polar	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(H/V)	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре
V	44.25	24.52	8.36	32.88	40	-7.12	QP
V	68.72	22.15	9.14	31.29	40	-8.71	QP
V	128.94	25.82	14.59	40.41	43.5	-3.09	QP
V	255.27	24.42	17.25	41.67	46	-4.33	QP
V	336.85	22.17	13.22	35.39	46	-10.61	QP
V	412.53	20.52	17.68	38.2	46	-7.8	QP
Н	67.92	17.75	8.64	26.39	40	-13.61	QP
Н	99.81	24.64	8.37	33.01	43.5	-10.49	QP
Н	155.29	25.19	9.57	34.76	43.5	-8.74	QP
Н	220.18	26.44	12.69	39.13	46	-6.87	QP
Н	300.16	23.35	15.46	38.81	46	-7.19	QP
Н	356.52	20.83	19.39	40.22	46	-5.78	QP

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



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3.2.8 TEST RESULTS (Above 1GHz~ 10th harmonic)

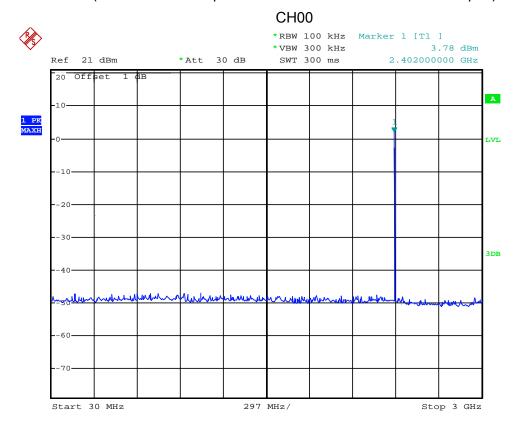
EUT:	Wireless computer switch	Model Name :	DW-PSW04+
Temperature :	24 °C	Relative Humidity:	48%
Pressure :	1010hPa	Test Mode:	TX
Test Voltage :	DC 3V		

	Low Channel (2402 MHz)-Above 1G						
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detect	Polar
(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Туре	(H/V)
4804.14	56.86	-3.26	53.6	74	-20.4	Pk	Vertical
4804.14	44.53	-3.26	41.27	54	-12.73	Av	Vertical
7206.33	57.16	-2.31	54.85	74	-19.15	Pk	Vertical
7206.33	42.64	-2.31	40.33	54	-13.67	Av	Vertical
4804.25	54.93	-3.18	51.75	74	-22.25	Pk	Horizontal
4804.25	40.44	-3.18	37.26	54	-16.74	Av	Horizontal
7206.82	48.6	-2.28	46.32	74	-27.68	Pk	Horizontal
7206.82	37.74	-2.28	35.46	54	-18.54	Av	Horizontal
		Mid Cha	annel (2441 MHz)-A	Above 1G	<u> </u>	1	
4881.98	52.17	-3.55	48.62	74	-25.38	Pk	Vertical
4881.98	40.56	-3.55	37.01	54	-16.99	Av	Vertical
7324.33	54.53	-0.76	53.77	74	-20.23	Pk	Vertical
7324.33	42.93	-0.76	42.17	54	-11.83	Av	Vertical
4882.17	49.67	-3.82	45.85	74	-28.15	Pk	Horizontal
4882.17	40.55	-3.82	36.73	54	-17.27	Av	Horizontal
7324.25	47.37	-0.91	46.46	74	-27.54	Pk	Horizontal
7324.25	36.84	-0.91	35.93	54	-18.07	Av	Horizontal
	T	High Ch	annel (2480MHz)-	Above 1G		1	
4960.22	53.36	-3.67	49.69	74	-24.31	Pk	Vertical
4960.22	42.19	-3.67	38.52	54	-15.48	Av	Vertical
7440.35	50.55	-0.73	49.82	74	-24.18	Pk	Vertical
7440.35	40.26	-0.73	39.53	54	-14.47	Av	Vertical
4960.41	49.46	-3.47	45.99	74	-28.01	Pk	Horizontal
4960.41	35.65	-3.47	32.18	54	-21.82	Av	Horizontal
7440.76	44.27	-0.54	43.73	74	-30.27	Pk	Horizontal
7440.76	32.85	-0.54	32.31	54	-21.69	Av	Horizontal



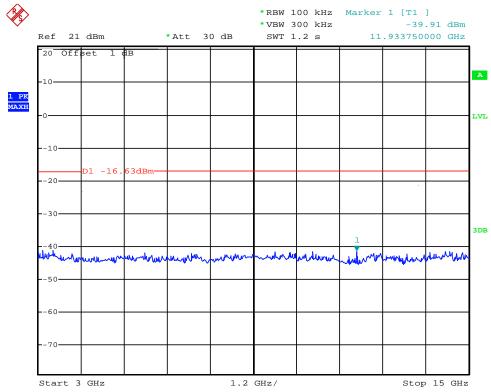
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Conducted Spurious Emissions at Antenna Port (there are 150001 points are used for each measurement plot)



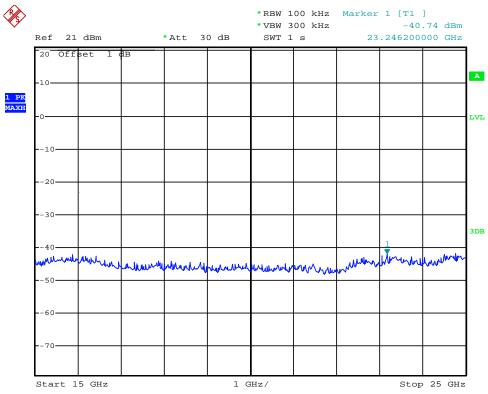


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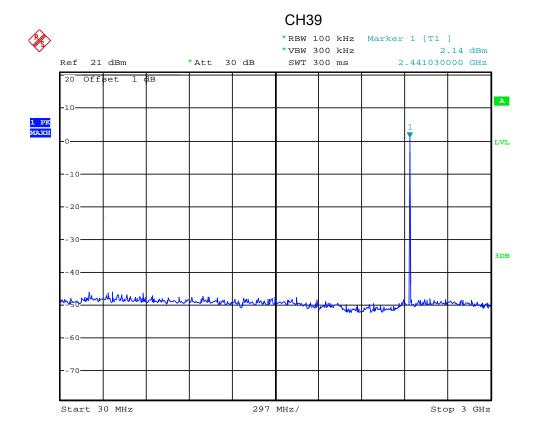


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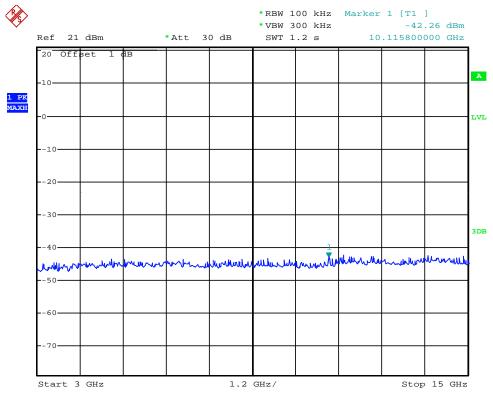


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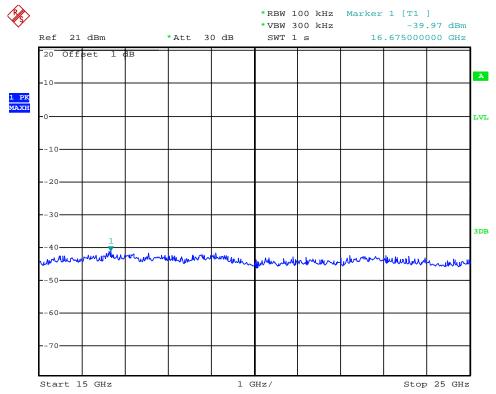


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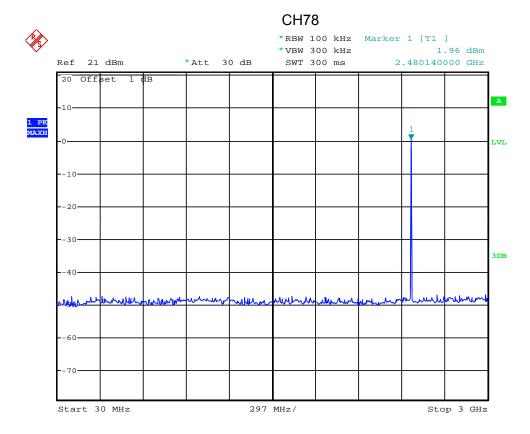
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Date: 23.MAY.2015 17:34:37

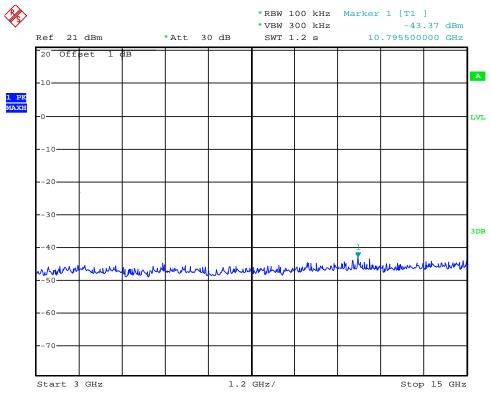


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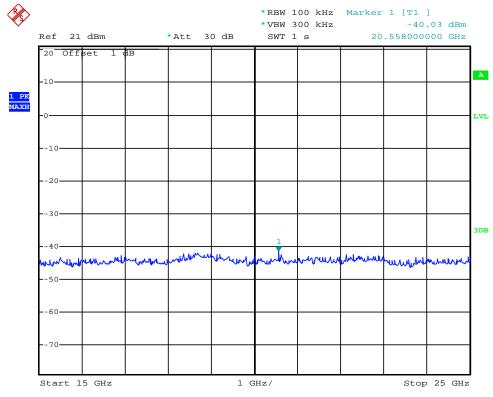


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4. NUMBER OF HOPPING CHANNEL

4.1 APPLIED PROCEDURES / LIMIT

/ / ElED / //OGEDG//EG / Ellilli								
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 = the frequency band of operation	
RB	RBW =100kHz
VB	$VBW \ge RBW$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

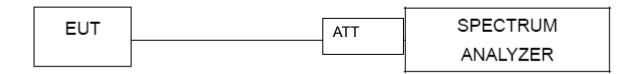
4.1.1 TEST PROCEDURE

- 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=300kHz, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

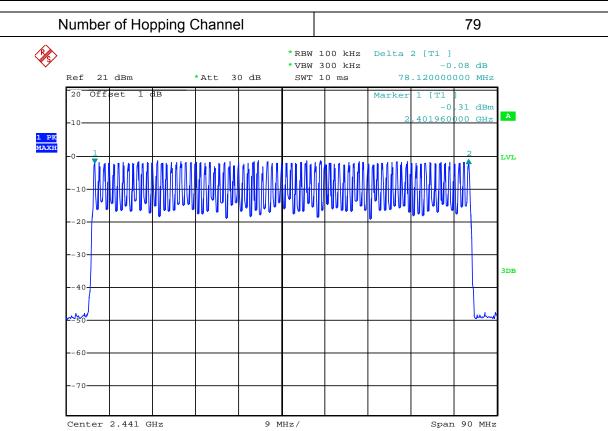
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.



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4.1.5 TEST RESULTS

EUT:	Wireless computer switch	Model Name :	DW-PSW04+
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage :	DC 3V
Test Mode :	Hopping Mode		





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5. AVERAGE TIME OF OCCUPANCY

5.1 APPLIED PROCEDURES / LIMIT

011 711 1 2122 1 110	1 AT LIED I ROOLDORLO / 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			

5.1.1 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.
- h. Measure the maximum time duration of one single pulse.

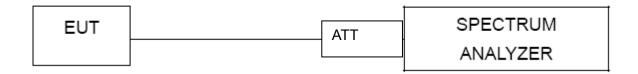
5.1.2 DEVIATION FROM STANDARD

No deviation.



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5.1.3 TEST SETUP



5.1.4 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.

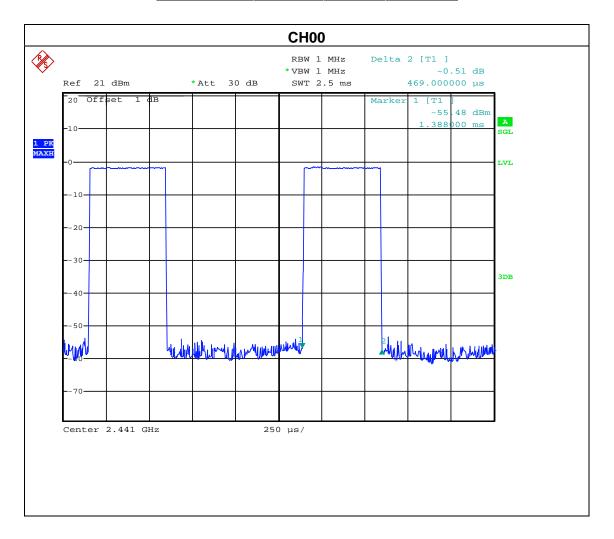


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5.1.5 TEST RESULTS

EUT:	Wireless computer switch	Model Name :	DW-PSW04+
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3V
Test Mode :	TX		

	Plus	Dwell	Limito
Frequency	Duration	Time	Limits (s)
	(ms)	(s)	(8)
2441MHz	0.469	0.150	0.4





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6. HOPPING CHANNEL SEPARATION MEASUREMENT

6.1 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	
VB	300 kHz	
Detector	Peak	
Trace	Max Hold	
Sweep Time	Auto	

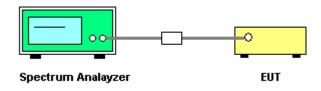
6.1.1 TEST PROCEDURE

- 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.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.



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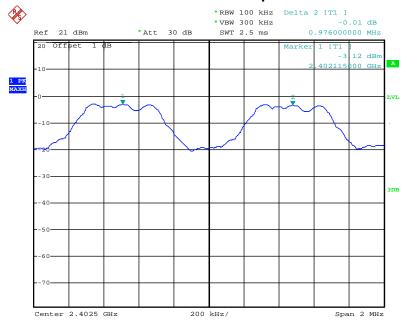
6.1.5 TEST RESULTS

EUT:	Wireless computer switch	Model Name :	DW-PSW04+
Temperature:	24 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3V
Test Mode :	CH00 / CH39 /CH78 (1Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	0.976	Complies
2441 MHz	0.987	Complies
2480 MHz	0.986	Complies

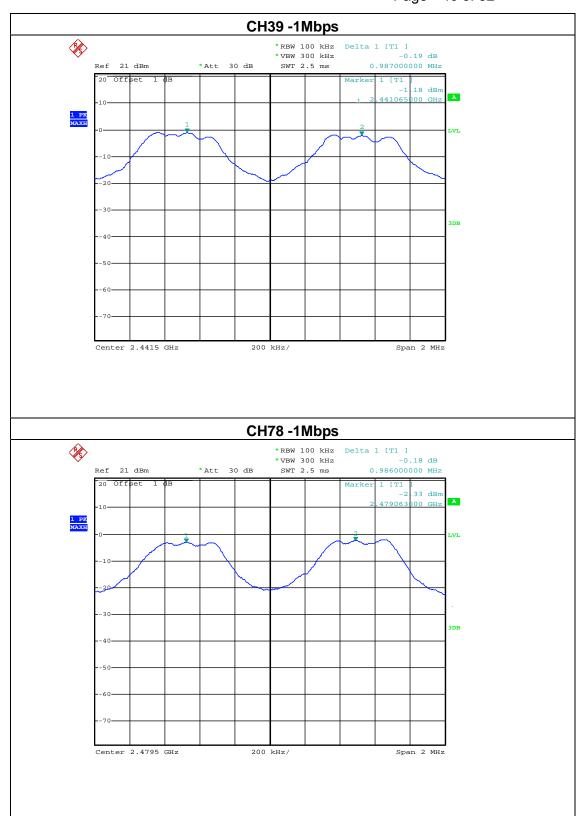
Ch. Separation Limits: >20dB bandwidth

CH00 -1Mbps





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7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

THE ALL LIED I ROOF DOKEO / EINIT				
FCC Part15 (15.247) , Subpart C				
Section Test Item Limit Frequency Range (MHz) Result				Result
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

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

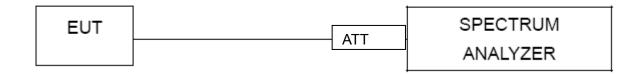
7.1.1 TEST PROCEDURE

- 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=300KHz, Sweep time = Auto.

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.

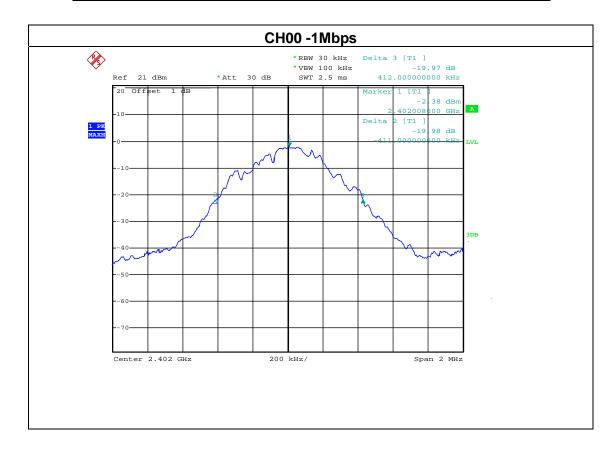


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7.1.5 TEST RESULTS

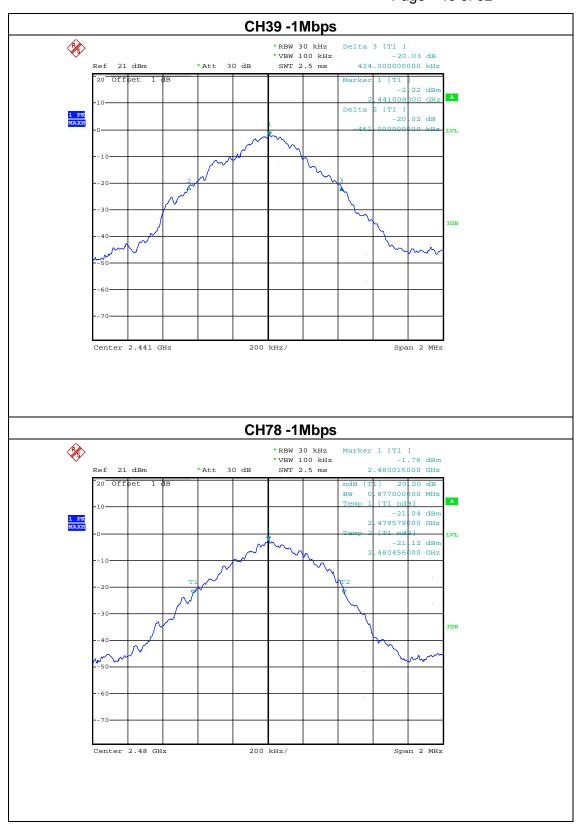
EUT:	Wireless computer switch	Model Name :	DW-PSW04+
Temperature :	25 ℃	Relative Humidity:	60%
Pressure :	1012 hPa	Test Voltage :	DC 3V
Test Mode :	CH00 / CH39 /C78(1Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	0.823	PASS
2441 MHz	0.885	PASS
2480 MHz	0.877	PASS





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8. PEAK OUTPUT POWER TEST

8.1 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 1w	2400-2483.5	PASS

8.1.1 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 > the 20 dB bandwidth of the emission being measured

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

VBW ≥ RBW

Sweep = auto

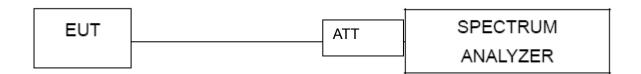
Detector function = peak

Trace = max hold

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 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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8.1.5 TEST RESULTS

EUT:	Wireless computer switch	Model Name :	DW-PSW04+
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3V
Test Mode :	CH00/ CH39 /CH78		

Note: The relevant measured result has the offset with cable loss already.

1Mbps			
Test Channel	Frequency	Peak Output Power	LIMIT
lest Charmer	(MHz)	(dBm)	(dBm)
CH00	2402	4.35	30
CH39	2441	4.48	30
CH78	2480	4.37	30



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9. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

TEST PROCEDURE

- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- d) Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- e) Repeat above procedures until all measured frequencies were complete.

9.1 DEVIATION FROM STANDARD

No deviation.



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9.2 TEST SETUP

EUT	ATT	SPECTRUM
		ANALYZER

9.3 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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9.4 TEST RESULTS

EUT:	Wireless computer switch	Model Name :	DW-PSW04+
Temperature :	24 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3V

Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result				
1Mbps Non-hopping							
Left-band	47.72	20	Pass				
Right-band	48.99	20	Pass				
1Mbps hopping							
Left-band	nd 46.94		Pass				
Right-band	Right-band 49.12		Pass				

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре		
	1Mbps Non-hopping							
2390	55.47	-13.06	42.41	54	-11.59	peak	Vertical	
2390	54.6	-13.06	41.54	54	-12.46	peak	Horizontal	
2483.5	57.67	-12.78	44.89	54	-9.11	peak	Vertical	
2483.5	56.63	-12.78	43.85	54	-10.15	peak	Horizontal	

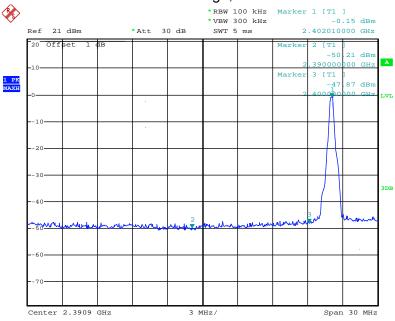
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment	
	1Mbps hopping							
2390	57.47	-13.06	44.41	54	-9.59	peak	Vertical	
2390	56.84	-13.06	43.78	54	-10.22	peak	Horizontal	
2483.5	55.51	-12.78	42.73	54	-11.27	peak	Vertical	
2483.5	54.39	-12.78	41.61	54	-12.39	peak	Horizontal	

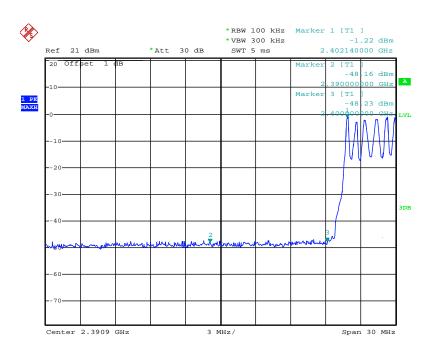
Note: Test method to see chapter 3.2 . When PK value is lower than the Average value limit, average didn't record.



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Band Edge, Left Side

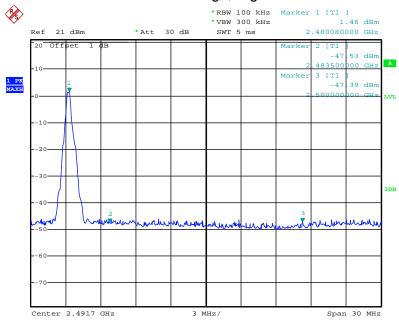


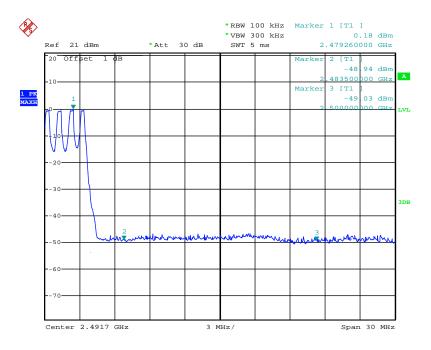




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Band Edge, Right Side







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10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

10.2 EUT ANTENNA

The EUT antenna is PCB antenna. It comply with the standard requirement.



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11. EUT TEST PHOTO

Radiated Measurement Photos

