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FCC Radio Test Report

FCC ID: X5B-BB6308C

This report concerns (check one) : Class II Change

Issued Date	: Dec. 13, 2010
Project No.	: 1010C210A
Equipment	: Wireless Game Pad Dongle for PS3
Model Name	: BB-6308
Applicant	: Performance Designed Products, LLC
Address	: 14144 Ventura Blvd. Suite 200 Sherman Oaks, CA 91423

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Oct. 29, 2010

Date of Test:

Oct. 29, 2010 ~ Dec. 10, 2010

Testing Engineer

Technical Manager

Authorized Signatory

(Ivan Cao)

an 1

(Leo Hung)

a Signatory :

(Steven Lu)

NEUTRON ENGINEERING INC.

:

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Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.



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1. CERTIFICATION

Equipment:	Wireless Game Pad Dongle for PS3
Trade Name :	GameStop
Model Name. :	BB-6308
Applicant:	Performance Designed Products,LLC
Date of Test:	Oct. 29, 2010 ~ Dec. 10, 2010
Test Item:	ENGINEERING SAMPLE
Standards:	FCC Part15, Subpart C(15.247) / ANSI C63.4 : 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-1010C210A) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C					
Standard Section	Test Item	Judgment	Remark		
15.207	Conducted Emission	PASS			
15.247(d)	Antenna conducted Spurious Emission	PASS			
15.247 (a)(1)	Hopping Channel Separation	PASS			
15.247 (b)(1)	Peak Output Power	PASS			
15.247(d)/15/209	Radiated Spurious Emission	PASS			
15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS			
15.247 (a)(1)(iii)	Dwell Time	PASS			
15.205	Restricted Bands	PASS			
15.203	Antenna Requirement	PASS			
1.1307 1.1310 2.1091 2.1093	RF Exposure Compliance	PASS			

NOTE:

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



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number is 319330

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 y \pm U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of **k=2**, providing a level of confidence of approximately **95** % \circ

A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
		30MHz ~ 200MHz	V	3.82	
CB03	CISPR	30MHz ~ 200MHz	Н	3.60	
CB03	CISER	200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Н	3.94	

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless Game Pad Do	ngle for PS3	
Trade Name	GameStop		
Model Name	BB-6308		
OEM Brand/Model Name	N/A		
Model Difference	N/A		
Product Description	The EUT is a Wireless Game Pad Dongle for PS3Operation Frequency:2402~2480 MHzModulation Type:GFSKNumber Of Channel64CH .Please see Note 2.Antenna Designation:Please see Note 3.Antenna Gain(Peak)Please see Note 3.Output Power:-8.29 dBmMore details of EUT technical specification, please referto the User's Manual.		
Channel List	Please refer to the Note	2.	
Power Source	DC Voltage supplied fro	m Host System(PS3).	
Power Rating	AC 120V/60Hz		
Connecting I/O Port(s)	Please refer to the User's Manual		
Products Covered	N/A		
EUT Modification(s)	N/A		

Note:

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

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2.

	Channel List				
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2402	23	2428	45	2454
02	2403	24	2429	46	2455
03	2404	25	2430	47	2456
04	2405	26	2431	48	2457
05	2406	27	2432	49	2459
06	2407	28	2433	50	2461
07	2408	29	2434	51	2463
08	2409	30	2435	52	2465
09	2411	31	2436	53	2466
10	2413	32	2437	54	2467
11	2415	33	2438	55	2468
12	2417	34	2439	56	2469
13	2418	35	2440	57	2470
14	2419	36	2441	58	2471
15	2420	37	2443	59	2472
16	2421	38	2445	60	2473
17	2422	39	2447	61	2474
18	2423	40	2449	62	2476
19	2424	41	2450	63	2478
20	2425	42	2451	64	2480
21	2426	43	2452		
22	2427	44	2453		

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Group 1		Gro	oup 2
Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2402	17	2404
2	2467	18	2469
3	2434	19	2436
4	2450	20	2452
5	3466	21	2468
6	3403	22	2405
7	2419	23	2421
8	2435	24	2437
9	2451	25	2453
10	2418	26	2420
11	2474	27	2476
12	2411	28	2413
13	2427	29	2429
14	2443	30	2445
15	2459	31	2461
16	2426	32	2428

Gro	Group 3		oup 4
Channel	Frequency (MHz)	Channel	Frequency (MHz)
33	2406	49	2408
34	2471	50	2473
35	2438	51	2440
36	3454	52	2456
37	2470	53	2472
38	2407	54	2409
39	2423	55	2425
40	2439	56	2441
41	2455	57	2457
42	2422	58	2424
43	2478	59	2480
44	2415	60	2417
45	2431	61	2433
46	2447	62	2449
47	2463	63	2465
48	2430	64	2432

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	
1	N/A	N/A	Printed Antenna	N/A	1.39	



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	CH01
Mode 2	CH36
Mode 3	CH64
Mode 4	Normal Link

For Conducted Emission					
Final Test Mode Description					
Mode 4 Normal Link					

For Radiated Emission					
Final Test Mode Description					
Mode 1	CH01				
Mode 2	CH36				
Mode 3	CH64				

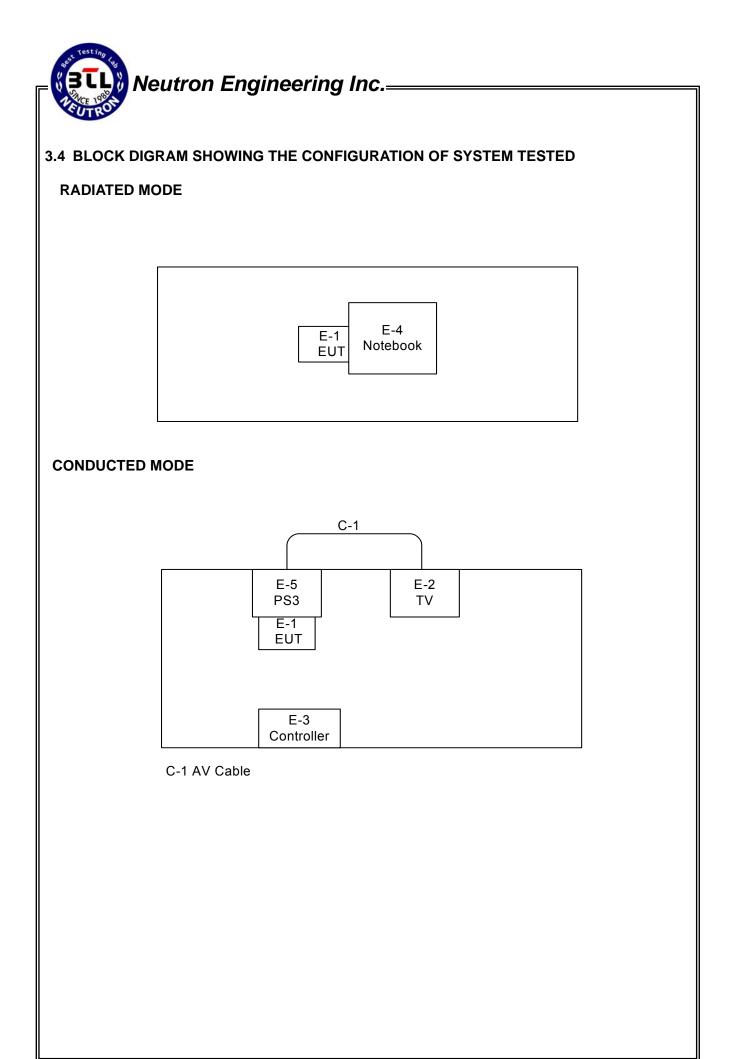
Note:

(1) The measurements are performed at the highest, middle, lowest 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	on Test program: Hardware control				
Frequency	2402 MHz	2441MHz	2480MHz		
Parameters(1Mbps)	N/A	N/A	N/A		





3.5 DESCRIPTION OF SUPPORT UNITS

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

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-1	Wireless Game Pad Dongle for PS3	GameStop	BB-6308	X5B-BB6308C	N/A	EUT
E-2	TV	Hisense	T41418H	DOC	N/A	
E-3	Wireless Controller for PS3	GameStop	BB-6308	X5B-BB6308B	N/A	
E-4	NOTEBOOK	DELL	INSPRON.1420	DOC	N/A	
E-4	Playstation 3	SONY	CECHH12	DOC	02-27432691-8924521-CE CHH12 CW	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	2.3M	

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 ^[]Length ^[] column.



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	Stanuaru
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	May.26.2011	
2	LISN	Rolf Heine	NNB-2-16Z 99044		May.26.2011	
3	50Ω Terminator	SHX	TF2-3G-A	08122901	May.26.2011	
4	Transient Limiter	Agilent	11947A	3107A03668	May.26.2011	
5	Test Cable	N/A	C-06_C03 N/A		Nov.15.2011	
6	EMI TEST RECEIVER	R&S	ESCS30	8333641017	May.26.2011	

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

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		



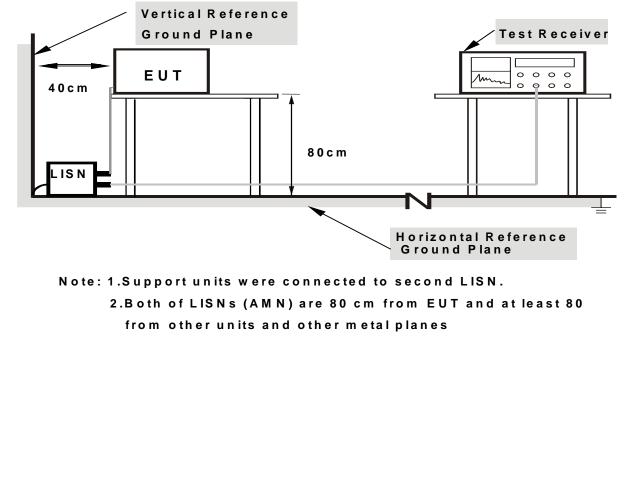
4.1.3 TEST PROCEDURE

- 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





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.

The EUT was programmed to be in continuously transmitting / Hopping on mode.

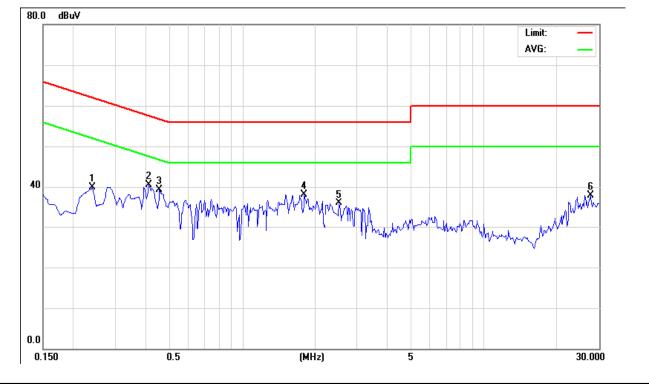
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4.1.7 TEST RESULTS

EUT : Wireless Game Pad Dongle for PS3					or	Model Name :		BB-6308	
Temperat	ture : 23 °C					Relative	e Humidity:	51 %	
Pressure 3		101	0 hPa			Test Vo	ltage :	AC 120V/60	Hz
Test Mode	e:	Nor	mal Link						
Freq.	Termi	inal Measured(dBuV)				Limits(dBuV)		Margin	Note
(MHz)	L/N		QP-Mode	AV-Mode	QP	-Mode	AV-Mode	(dB)	NOLE
0.24	Line	;	39.90	*	6	2.10	52.10	-22.20	(QP)
0.41	Line	;	40.46	*	5	7.63	47.63	-17.17	(QP)
0.46	Line	;	39.22	*	5	6.77	46.77	-17.55	(QP)
1.81	1.81 Line 38.10		38.10	*	5	6.00	46.00	-17.90	(QP)
2.53 Line 35.99 *		5	6.00	46.00	-20.01	(QP)			
27.56	Line	;	37.97	*	6	0.00	50.00	-22.03	(QP)

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz;SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.2 sec./MHz ° Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. 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 \circ



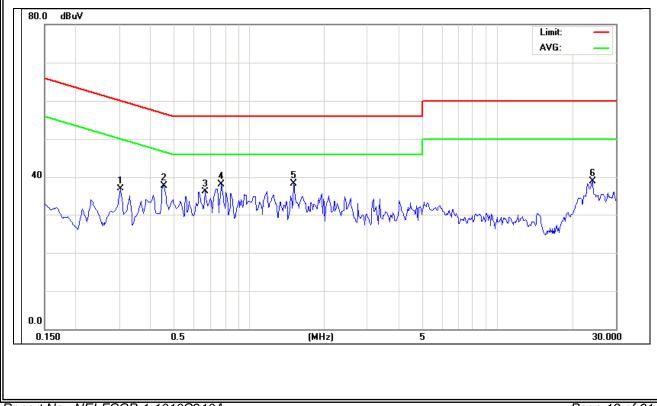


	Wireless Game Pad Dongle for PS3	Model Name :	BB-6308
Temperature :	23 °C	Relative Humidity:	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode:	Normal Link		

Freq.	Terminal	Measured(dBuV)		Limits(dBuV)		Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.30	Neutral	36.87	*	60.16	50.16	-23.29	(QP)
0.45	Neutral	37.76	*	56.85	46.85	-19.09	(QP)
0.66	Neutral	36.09	*	56.00	46.00	-19.91	(QP)
0.77	Neutral	38.14	*	56.00	46.00	-17.86	(QP)
1.51	Neutral	38.34	*	56.00	46.00	-17.66	(QP)
24.18	Neutral	38.87	*	60.00	50.00	-21.13	(QP)

Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz;SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.2 sec./MHz ° Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10KHz,VBW=10KHz, Swp. Time =0.2 sec./MHz °
- (2) All readings are QP Mode value unless otherwise stated AVG in column of ^ℂNote_□. 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 \circ

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4.2 RADIATED 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 followed.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)		
	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

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

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

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4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Triple Loop Antenna	R&S	HFH2-Z2	830749/020	May.27.2011
2	Bi-log Antenna	Schwarbeck	VULB9160	9160-3232	May.26.2011
3	Horn Antenna	ETS	3115	00075789	May.12.2011
4	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170340	Dec.16.2010
5	Amplifier	HP	8447D	2944A09673	May.26.2011
6	Amplifier	Agilent	8449B	3008A02274	May.26.2011
7	Amplifier	EMC	EMC2654045	980039	Aug.12.2011
8	Test Receiver	R&S	ESCI	100895	May.26.2011
9	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011
10	Test Cable	N/A	C-01_CB03	N/A	Jul.05.2011
11	Test Cable	HUBER+SUHNER	SUCOFLEX_8 m	313794/4	Apr.12.2011
12	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, Average=PK-dycty cycle		

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



DUTY CYCLE : TX 2402MHz (1Mbps)

Dwell time=ON/ON+OFF

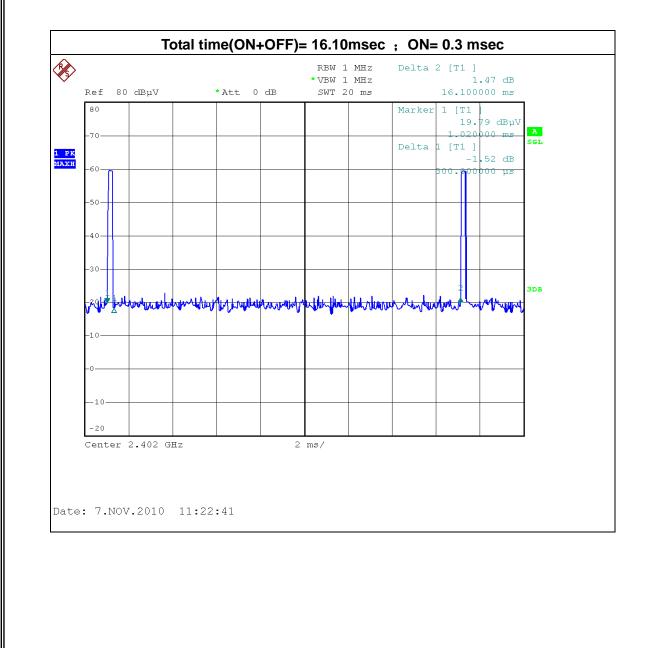
ON:0.3msec

ON+OFF:(total time):16.10msec

Dwell time: 1.86%

AV=PK+20 log(Dwell time)

AV=PK-34.59



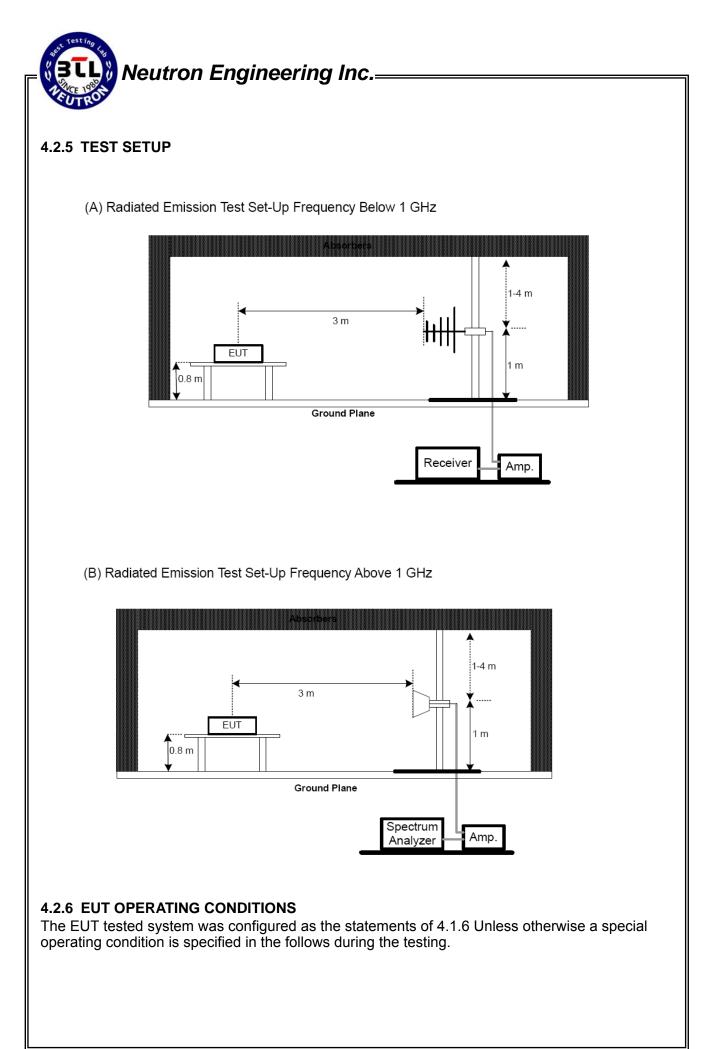


4.2.3 TEST PROCEDURE

- 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



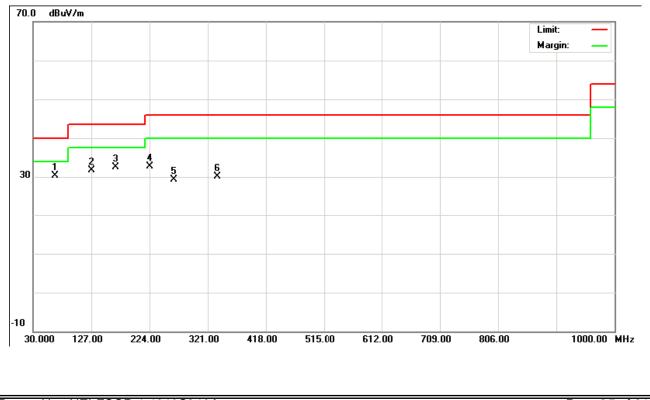
4.2.7 TEST RESULTS (BETWEEN30 - 1000 MHZ)

EUT :	Wireless Game Pad Dongle for PS3	Model Name :	BB-6308
Temperature :	23 ℃	Relative Humidity :	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX Mode 2402MHz	•	

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Nata
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
66.25	V	48.05	-17.79	30.26	40.00	- 9.74	
126.58	V	49.86	-18.16	31.70	43.50	- 11.80	
166.94	V	49.99	-17.41	32.58	43.50	- 10.92	
223.65	V	48.42	-15.77	32.65	46.00	- 13.35	
263.87	V	42.91	-13.63	29.28	46.00	- 16.72	
336.97	V	41.28	-11.16	30.12	46.00	- 15.88	

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 <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (3) Measuring frequency range from 30MHz to 1000MHz \circ
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ



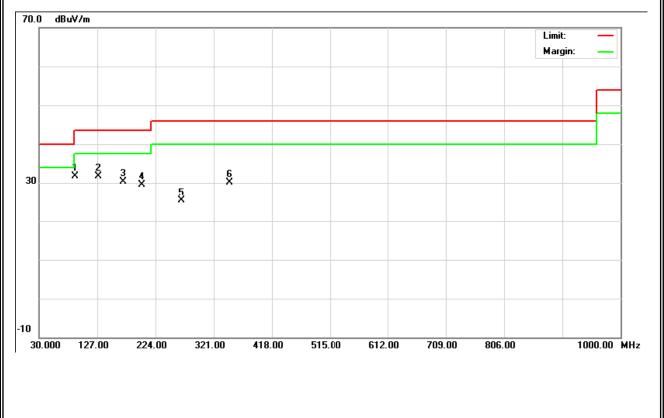
Report No.: NEI-FCCP-1-1010C210A



IE())	Wireless Game Pad Dongle for PS3	Model Name :	BB-6308
Temperature :	23 ℃	Relative Humidity:	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX Mode 2402MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Nata
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
89.36	Н	50.76	-19.07	31.69	43.50	- 11.81	
128.90	Н	49.92	-18.12	31.80	43.50	- 11.70	
169.58	Н	47.56	-17.31	30.25	43.50	- 13.25	
201.68	Н	46.09	-16.52	29.57	43.50	- 13.93	
265.87	Н	38.91	-13.52	25.39	46.00	- 20.61	
346.97	Н	41.03	-10.91	30.12	46.00	- 15.88	

- (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 \circ
- (3) Measuring frequency range from 30MHz to 1000MHz \circ
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table \circ



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4.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	Wireless Game Pad Dongle for PS3	Model Name :	BB-6308
Temperature :	23 ℃	Relative Humidity:	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz		

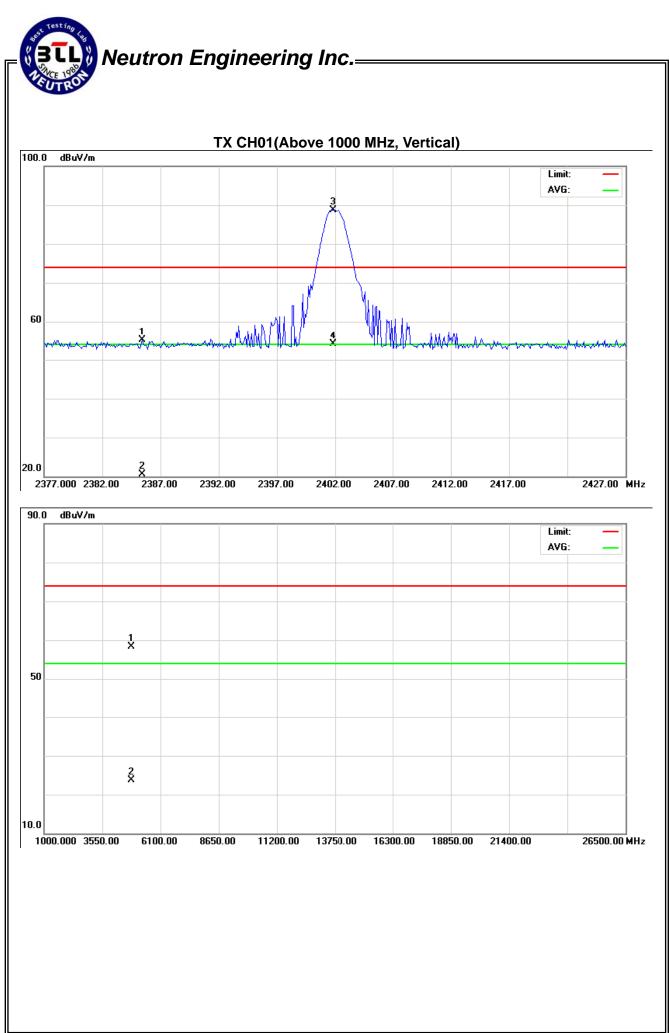
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2483.40	V	23.56	-11.03	31.53	55.09	20.50	74.00	54.00	X/E
2401.80	V	57.10	22.51	31.56	88.66	54.07			X/F
4803.97	V	52.42	17.83	5.94	58.36	23.77	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:

"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:
 Average = Peak value + 20log(Duty cycle) , Final AV=PK-34.59

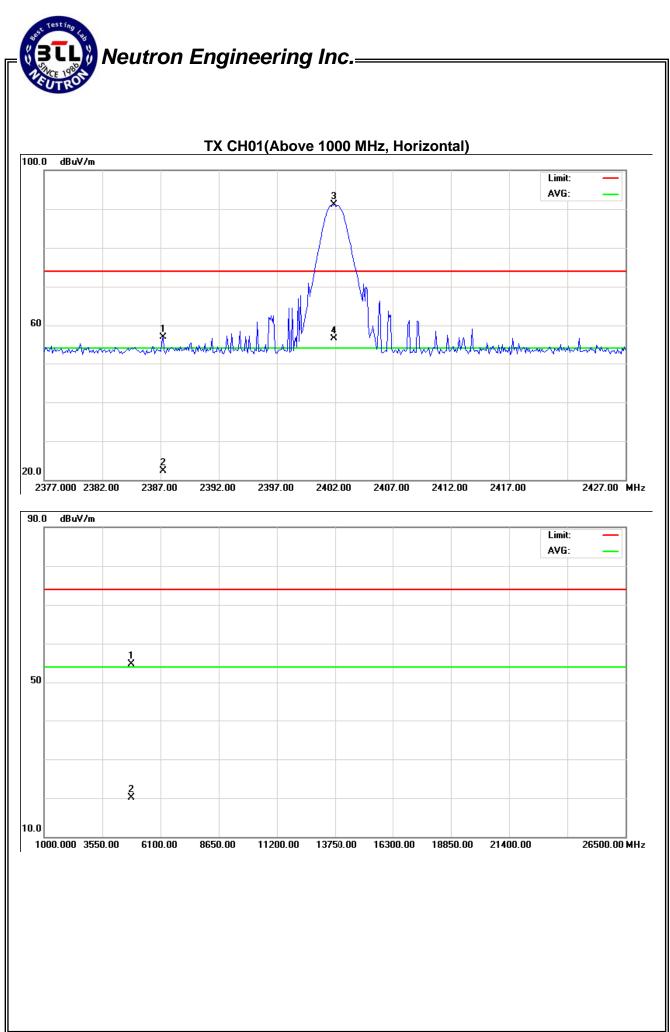




	Wireless Game Pad Dongle for PS3	Model Name :	BB-6308
Temperature :	23 ℃	Relative Humidity:	51 %
Pressure :	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2402MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lii		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2387.20	Н	25.30	-9.29	31.54	56.84	22.25	74.00	54.00	X/E
2401.90	Н	59.46	24.87	31.56	91.02	56.43			X/F
4803.97	Н	48.71	14.12	5.94	54.65	20.06	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:
 Average = Peak value + 20log(Duty cycle) , Final AV=PK-34.59



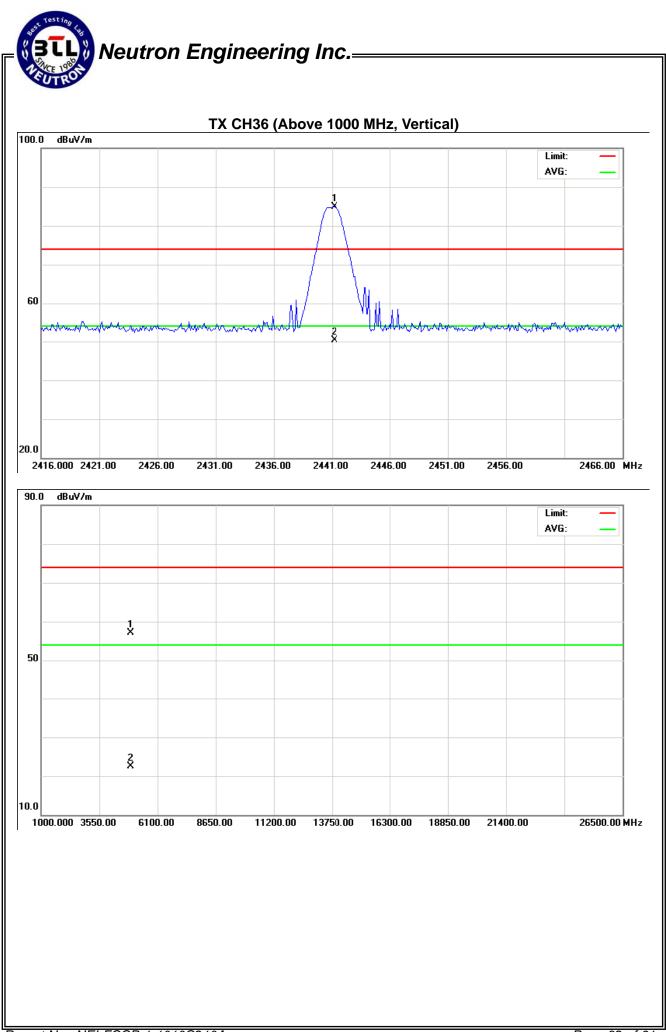


	Wireless Game Pad Dongle for PS3	Model Name :	BB-6308
Temperature :	23 ℃	Relative Humidity:	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.20	V	53.23	18.64	31.63	84.86	50.27			X/F
4882.03	V	50.85	16.26	6.17	57.02	22.43	74.00	54.00	X/H

(1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ

- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) , Final AV=PK-34.59



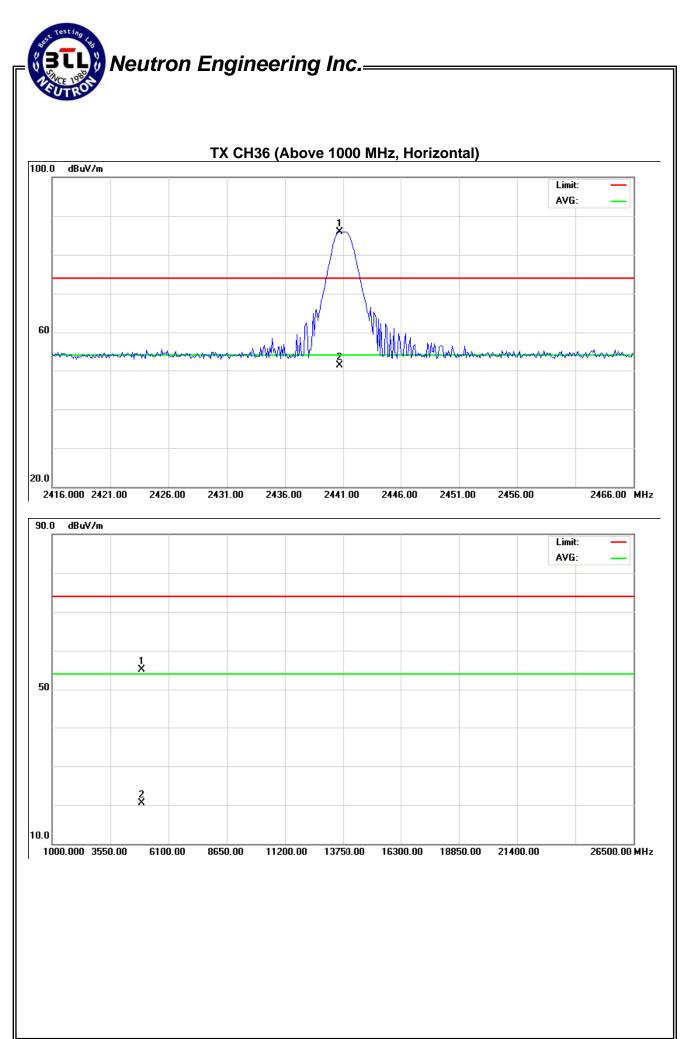


EUT :	Wireless Game Pad Dongle for PS3	Model Name :	BB-6308
Temperature :	23 ℃	Relative Humidity:	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2441MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.70	Н	54.30	19.71	31.62	85.92	51.33			X/F
4882.03	Н	48.86	14.21	6.17	55.03	20.44	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>"Note_"</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis :
 "X" denotes Laid on Table ; "Y" denotes Vertical Stand ; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle)

 Final AV=PK-34.59

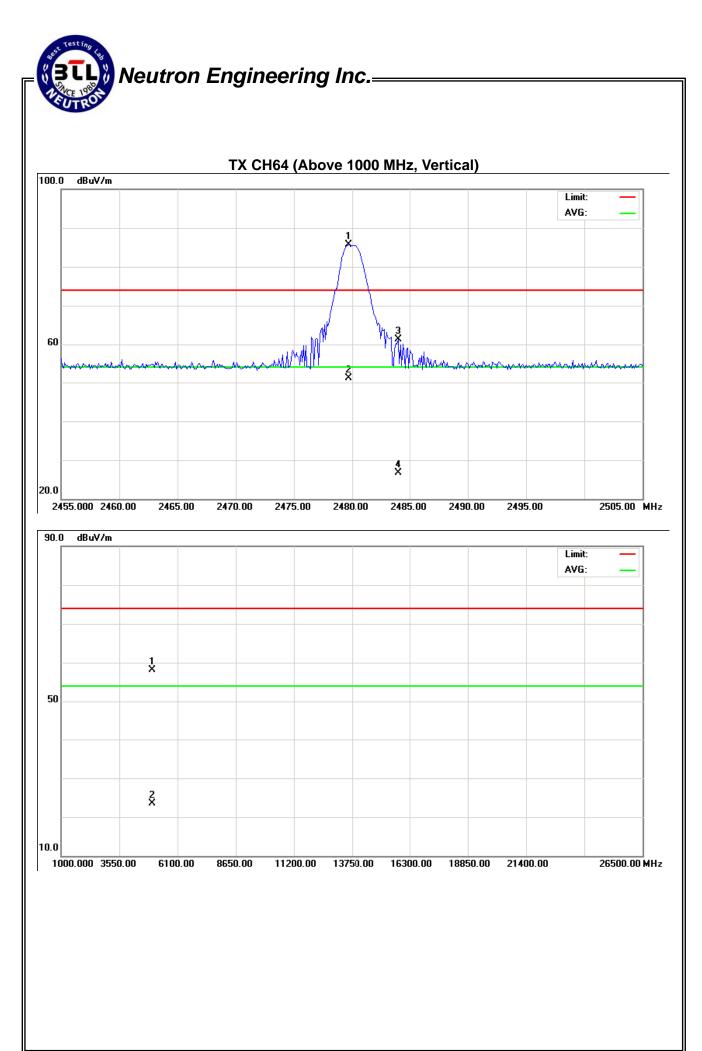




EUT :	Wireless Game Pad Dongle for PS3	Model Name :	BB-6308
Temperature :	23 ℃	Relative Humidity:	51 %
Pressure :	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2479.70	V	53.94	19.36	31.69	85.63	51.05			X/F
2484.00	V	29.53	-5.06	31.70	61.23	26.64	74.00	54.00	X/E
4960.12	V	51.73	17.14	6.40	58.13	23.54	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is:
- Average = Peak value + 20log(Duty cycle) , Final AV=PK-34.59



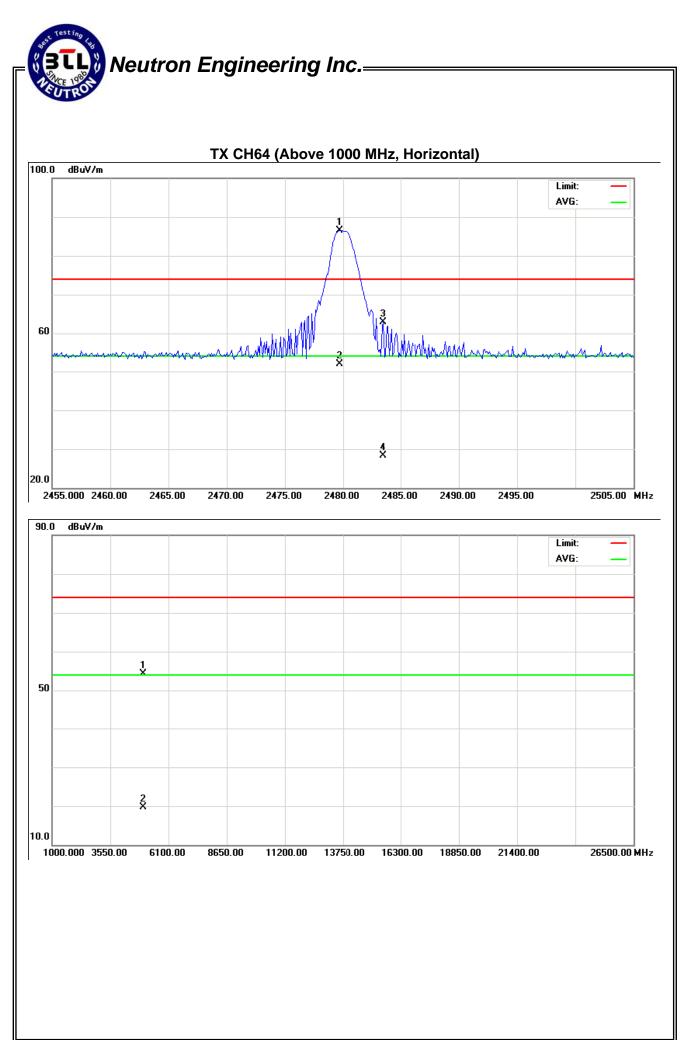


EUT :	Wireless Game Pad Dongle for PS3	Model Name :	BB-6308
Temperature :	23 ℃	Relative Humidity:	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX 2480MHz	·	

Freq.	Ant.Pol.	Rea	ding	Ant./CF	A	ct.	Lir	nit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2479.70	Н	54.82	20.22	31.69	86.51	51.91			X/F
2483.50	Н	31.20	-3.39	31.70	62.90	28.31	74.00	54.00	X/E
4960.12	Н	47.86	13.27	6.40	54.26	19.67	74.00	54.00	X/H

Remark :

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency^o"F" denotes fundamental frequency; "H" denotes spurious frequency.
 "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna
- (8) The average value of fundamental frequency is: Average = Peak value + 20log(Duty cycle) , Final AV=PK-34.59



5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C				
Section	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

I	ltem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011

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

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

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, Sweep time = Auto.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.5 EUT OPERATION CONDITIONS



5.1.6 TEST RESULTS

EUT: Temperature:	Wireless Game Pad Dongle for PS3 23 ℃	Model Name : Relative Humidity:	BB-6308 51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Hopping Mode –Group 1		
Number	of Hopping Channel		16
1Pk Max M1 -30 dl -30 dl -40 dl -50 dl -60 dl -70 d -80 dl -90 dl	10.0 dBm SWT 10ms 3m		-21.21 dBm 2.401920000 GHz -21.10 dBm 2.474080020 GHz
	v.2010 13:23:39	5	

6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

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

6.1.1 MEASUREMENT INSTRUMENTS LIST

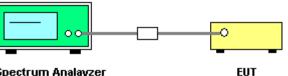
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011

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

6.1.2. TEST PROCEDURES

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- C. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f Measure the maximum time duration of one single pulse.
- g. Set the EUT for packet transmitting.
- \tilde{h} Measure the maximum time duration of one single pulse.
- i. Dwell time = [spreading rate/16] x duty-cycle x 0.4 seconds

6.1.3. TEST SETUP LAYOUT



Spectrum Analavzer

6.1.4. TEST DEVIATION

There is no deviation with the original standard.

6.1.5. EUT OPERATION DURING TEST

The EUT was programmed to be in continuously transmitting/Hopping mode.



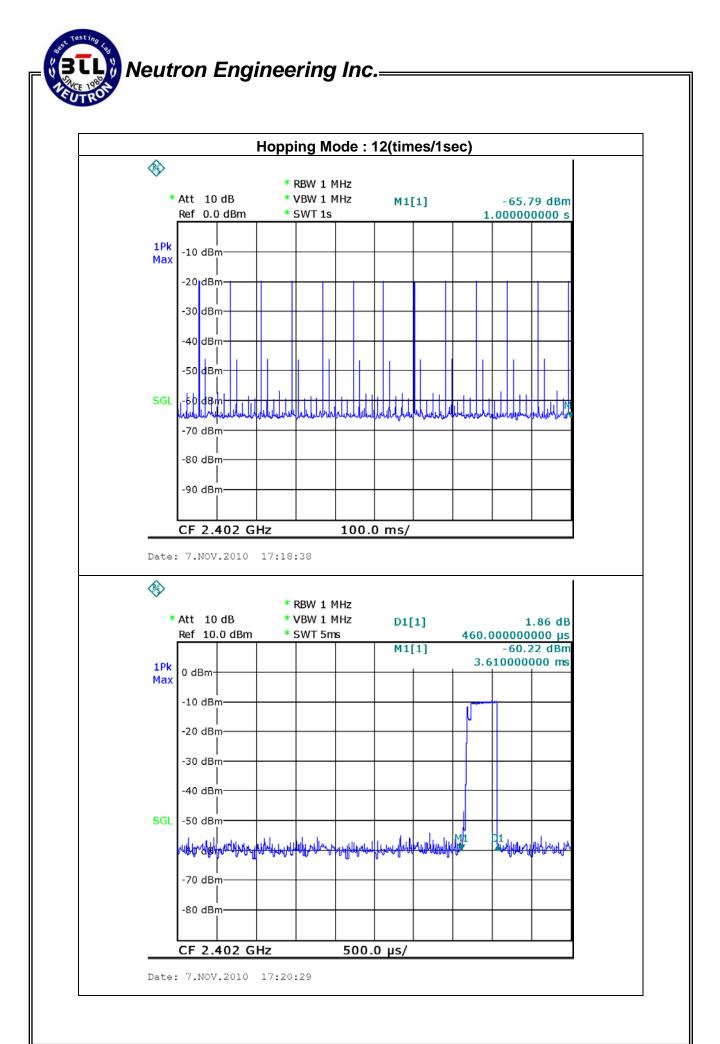
6.1.6. TEST RESULTS

	Wireless Game Pad Dongle for PS3	Model Name :	BB-6308
Temperature :	23 ℃	Relative Humidity:	51 %
Pressure :	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Hopping Mode		

Mode	Number of transmission in a 6.4 (16Hopping*0.4)	Length of transmission time (msec)	Result (msec)	Limit (msec)
2402 MHz	(12/1) *6.4=76.8 times Note1	0.47	36.096	400

Note1: 12 times of occupied channels per 1 second

	Results
Measured cycle (sec)	16 CH*0.4=6.4
The total number of frequency-hopping per second	((12/1)*16)=192
The number of occupied channels per second	192/16=12(number/sec)
occupied time for each channel(1)	0.46ms
The total number of channels occupied within one	(12/1) *6.4=76.8 times
cycle (2)	
The average time of occupancy within one $cycle(1)^{*}(2)$	36.096msec
LIMIT (msec)	400msec



Report No.: NEI-FCCP-1-1010C210A



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

It	em	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011

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

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

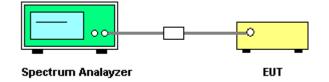
7.1.2 TEST PROCEDURE

- 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 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in Hopping on mode.

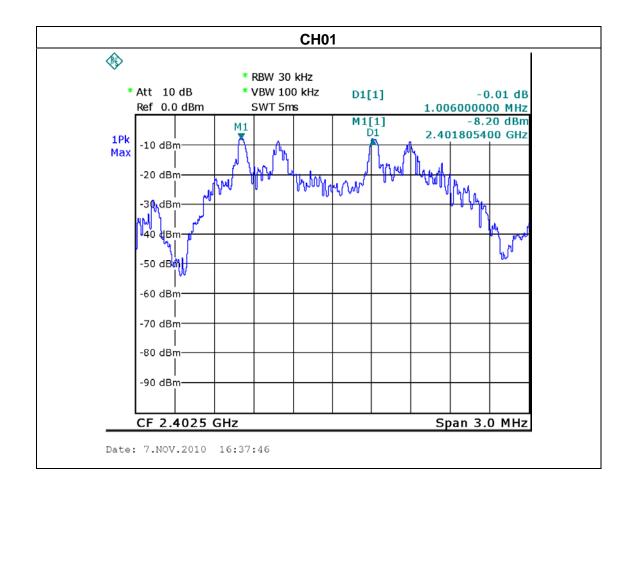


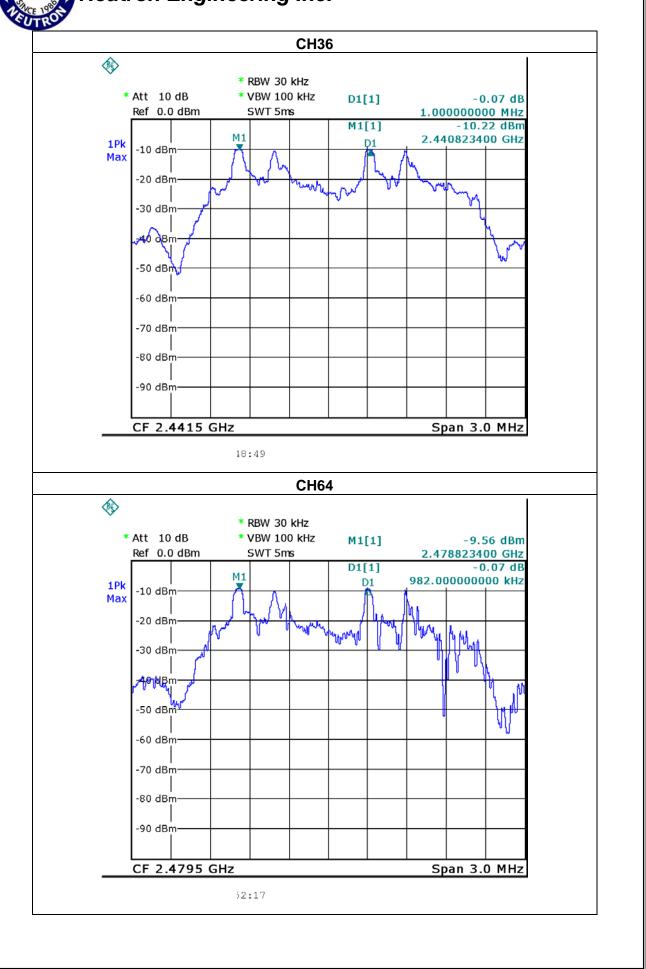
7.1.6 TEST RESULTS

	Wireless Game Pad Dongle for PS3	Model Name :	BB-6308	
Temperature :	23 ℃	Relative Humidity:	51 %	
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz	
Test Mode :	Hopping on CH01 / CH36/ CH64			

Frequency	Ch. Separation (MHz)	20dB Bandwidth (MHz)	Result
2402 MHz	2	0.988	Complies
2441 MHz	2	0.988	Complies
2480 MHz	2	0.988	Complies

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





8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C						
Section	Test Item	Limit	Frequency Range (MHz)	Result		
15.247 (a)(2)	Bandwidth	None	2400-2483.5	PASS		

8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep 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= 30KHz, VBW=100KHz, Sweep time = Auto.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP

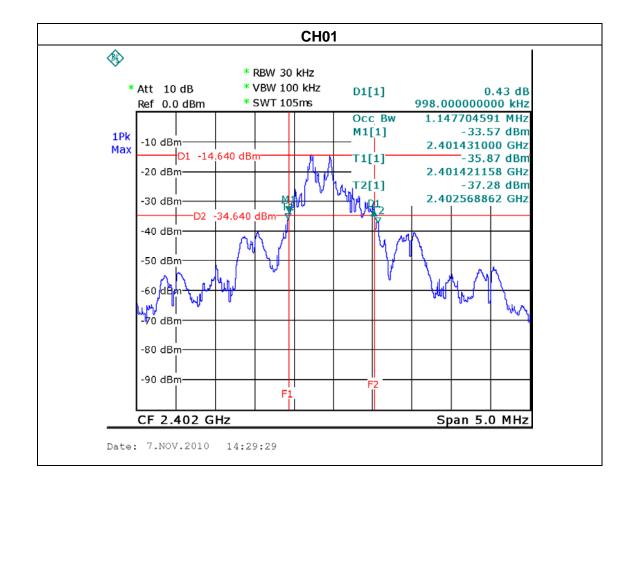
EUT	SPECTRUM
	ANALYZER

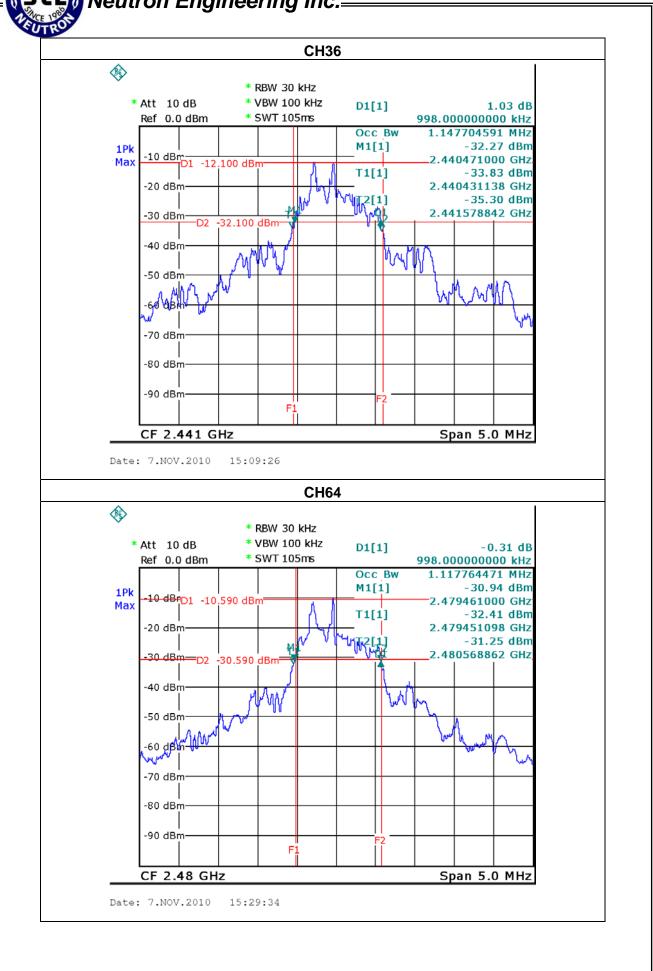
8.1.5 EUT OPERATION CONDITIONS

8.1.6 TEST RESULTS

	Wireless Game Pad Dongle for PS3	Model Name :	BB-6308
Temperature :	23 ℃	Relative Humidity:	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH01 / CH36/ CH64		

Frequency	20dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2402 MHz	0.998	<= 2MHz	PASS
2441 MHz	0.998	<= 2MHz	PASS
2480 MHz	0.998	<= 2MHz	PASS





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 Power	0.125 watt or 21dBm	2400-2483.5	PASS	

9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011

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= 3MHz, VBW= 3MHz, Sweep time = Auto.

9.1.3 DEVIATION FROM STANDARD

No deviation.

9.1.4 TEST SETUP

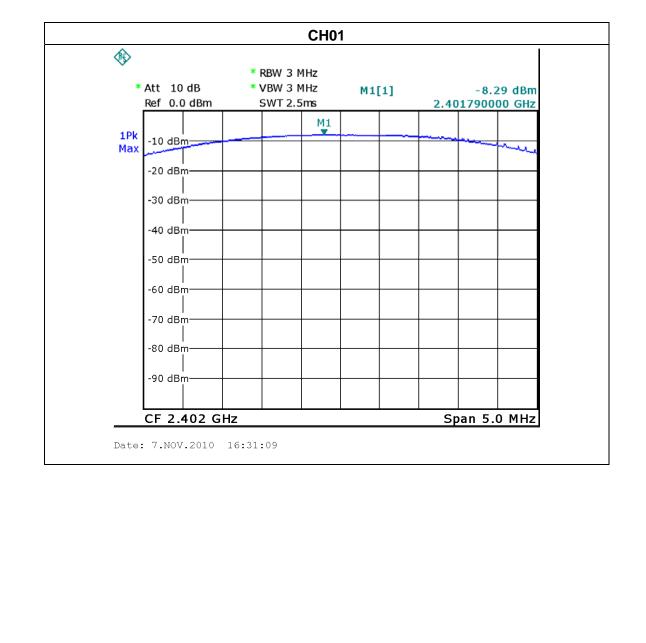


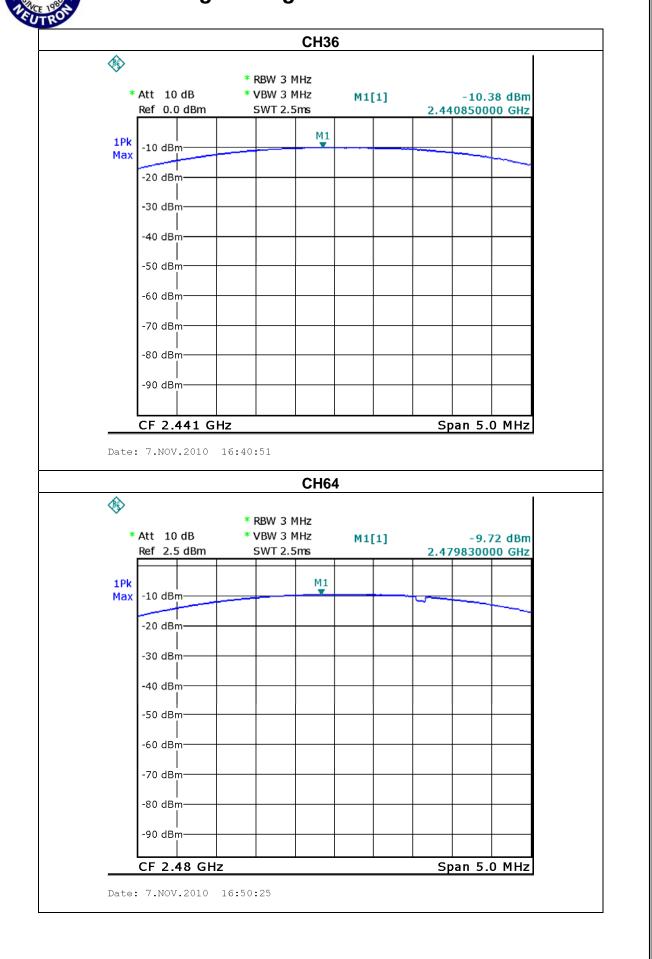
9.1.5 EUT OPERATION CONDITIONS

9.1.6 TEST RESULTS

FUI	Wireless Game Pad Dongle for PS3	Model Name :	BB-6308
Temperature :	23 ℃	Relative Humidity:	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH01 / CH36/ CH64		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2402	-8.29	21	0.125
CH36	2441	-10.38	21	0.125
CH64	2480	-9.72	21	0.125





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/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
88~216	150	3
216~960	200	3
Above 960	500	3

10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2011

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

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, Sweep time = Auto.

10.1.3 DEVIATION FROM STANDARD

No deviation.

10.1.4 TEST SETUP

EUT	SPECTRUM	
	ANALYZER	

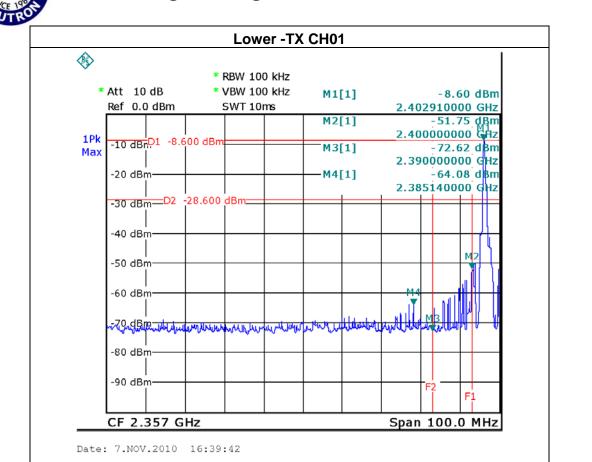
10.1.5 EUT OPERATION CONDITIONS

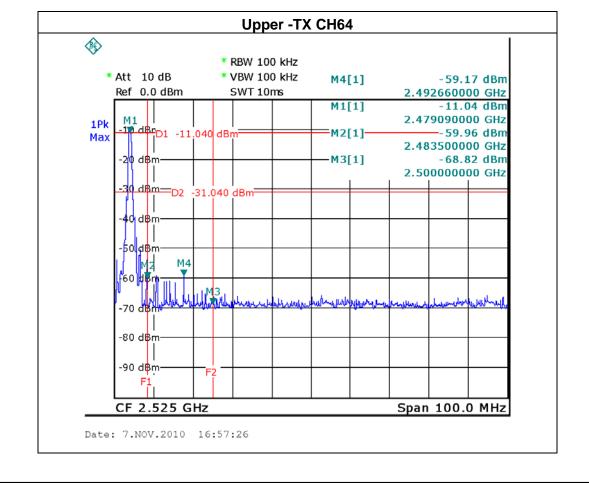
10.1.6 TEST RESULTS

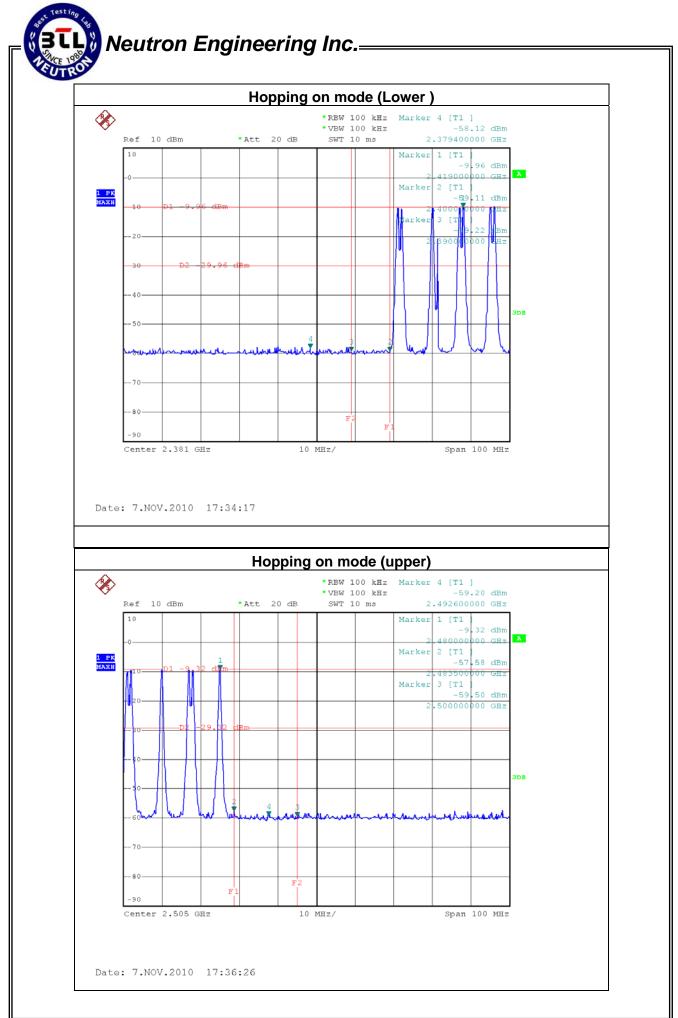
	Wireless Game Pad Dongle for PS3	Model Name :	BB-6308
Temperature :	23 ℃	Relative Humidity:	51 %
Pressure :	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	CH01 / CH36 / CH64-1Mbps & Hopping on mode		

	cy power in any 100kHz the frequency band	The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz) POWER(dBm)		FREQUENCY(MHz)	POWER(dBm)
2385.14	-64.08	2492.66	-59.17
Result			

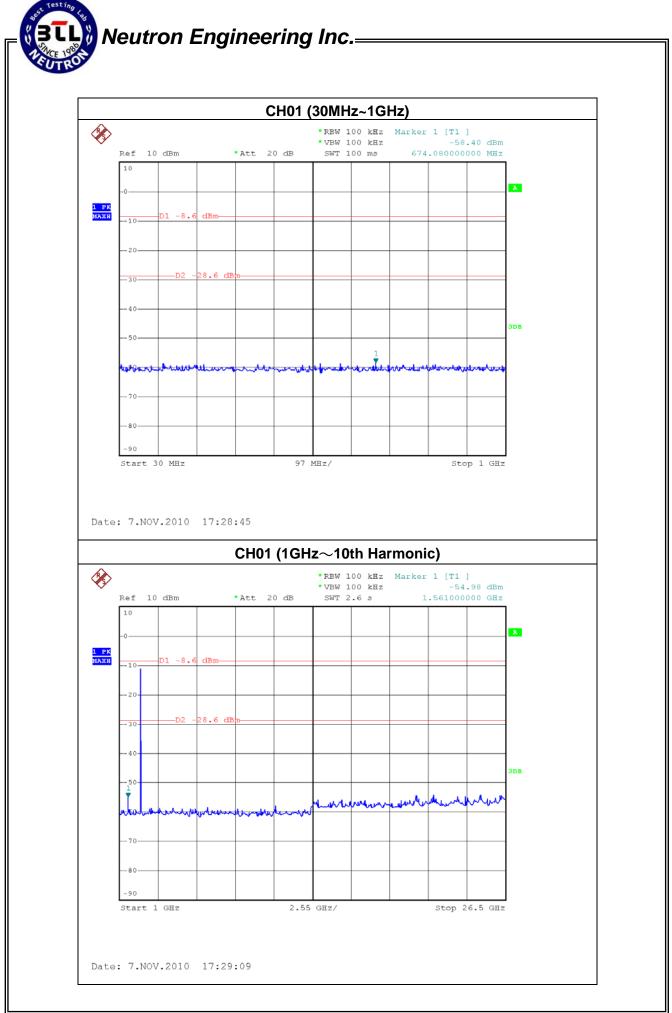
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

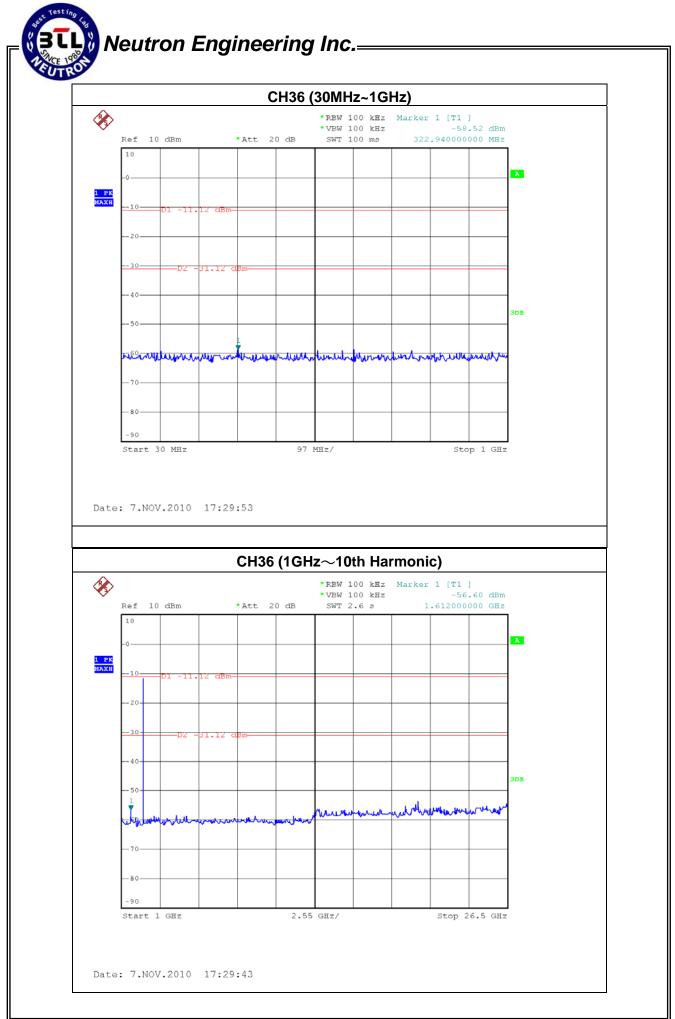




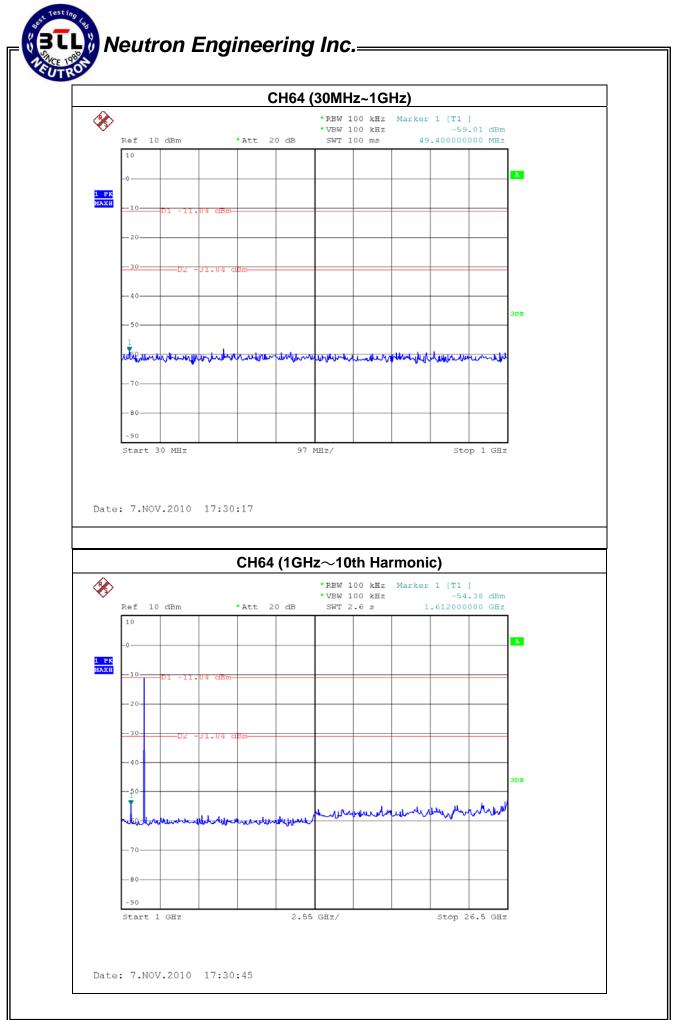


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