FCC/IC Radio Test Report

FCC ID: GV3M01174-D IC: 6128A-M01174D

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

Issued Date	: Sep. 11, 2012
Project No.	: 1209C015
Equipment	2.4G Wireless Receiver
Model Name	: M01174-D
Applicant for FCC	: ACCO Brands, Inc
Address for FCC Applicant	 333 Twin Dolphin Drive, Sixth Floor, Redwood Shores, CA 94065, USA ACCO Canada Inc.
for IC Address for IC	: 5 Precidio Court Brampton Ontario L6S 6B7 Canada

Tested by: Neutron Engineering Inc. EMC Laboratory Date of Receipt: Sep. 01, 2012 Date of Test: Sep. 01, 2012 ~ Sep. 10, 2012

Testing Engineer

(David Mao)

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Authorized Signatory

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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 Brand Name Model Name	: 2.4G Wireless Receiver : Kensington : M01174-D
Applicant for FCC	: ACCO Brands, Inc
Applicant for IC	: ACCO Canada Inc.
Factory	: Sysgration(Shenzhen) Ltd.
Address	: Egongling Village, Pinghu Town, Longgang Dist. Shenzhen City. China
Date of Test	: Sep. 01, 2012 ~ Sep. 10, 2012
Test Sample	: Engineering Sample
Standards	FCC Part15, Subpart C(15.249)/ ANSI C63.4 : 2009; Canada RSS-210:2010 ; Canada RSS-Gen:2010

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-FICP-1-1209C015) 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).



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C (15.249) Canada RSS-210:2010					
StandardSection		Test Item	Judgment	Remark	
FCC	RSS-210/ RSS-Gen			Remark	
15.207	RSS-Gen 7.2.2	Conducted Emission	PASS		
15.209	RSS-210 2.7	Radiated Emission	PASS		
15.249	RSS-210 A2.9(a)	Radiated Spurious Emission	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/DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792 Neutron's test firm number for FCC 319330 Neutron's test firm number for IC 4428B-1

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 %.

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	
		30MHz ~ 200MHz	Н	3.60	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86	
DG-CB03	CIOFK	200MHz ~ 1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
		1GHz~18GHz	Н	3.68	

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	2.4G Wireless Receiver			
Brand Name	Kensington			
Model Name.	M01174-D			
Model Difference	N/A			
	The EUT is a 2.4G Wire			
	Product Type	Low Power Communication Device		
	Operation Frequency	2412~2472 MHz		
	Modulation Technology GFSK			
	Data rate 1Mbps			
Product Description	Number of Channel	5CH .Please see note 2. (Page 9).		
	Antenna Gain(Peak)	Please see note 3.(Page 9).		
	Output Power	74.54 dBuV/m (AV Max.)		
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification. Please refer to the User's Manual.			
Power Source	DC voltage supplied from Host System.			
Power Rating	I/P AC 120V/60Hz O/P DC 5V			
Connecting I/O Port(s)	Please refer to the User's Manual			

Note:

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

2.

Frequency Channel				
Channel	Frequency (MHz)			
01	2412			
02	2427			
03	2442			
04	2457			
05	2472			

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3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	Printed Antenna	N/A	4.73	-



3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based 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	Normal Link
Mode 2	Low – 2412MHz
Mode 3	Middle – 2442MHz
Mode 4	High -2472MHz

	For Conducted Test
Final Test Mode	Description
Mode 1	Normal Link

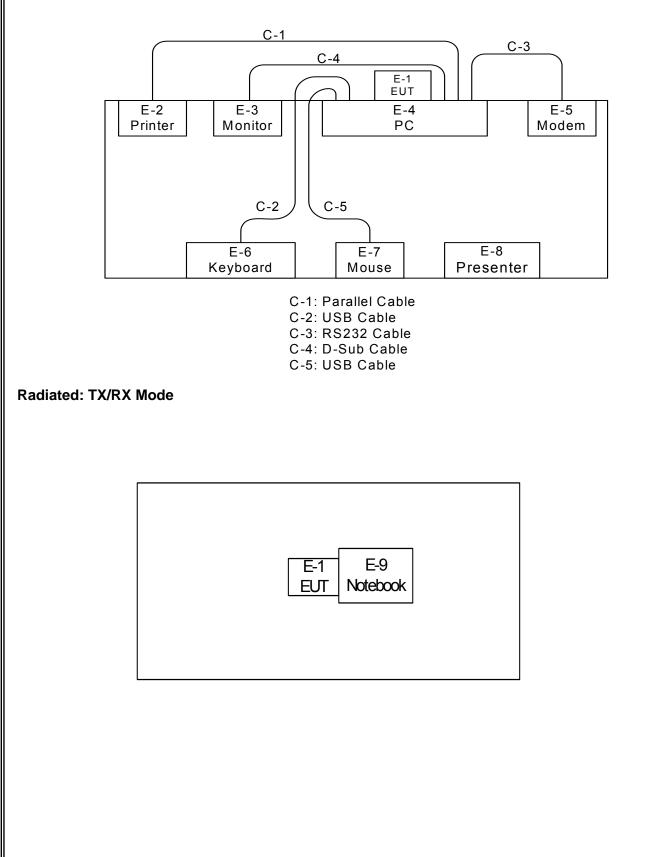
	For Radiated Test		
Final Test Mode Description			
Mode 2 Low – 2412MHz			
Mode 3	Middle – 2442MHz		
Mode 4	High -2472MHz		

Note:

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

3.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Conducted: Normal Link





3.4 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 / IC	Series No.	Note
E-1	2.4G Wireless Receiver	Kensington	M01174-D	GV3M01174-D / 6128A-M01174D	N/A	EUT
E-2	Printer	SII	DPU-414	DOC	3018507 B	
E-3	LCD monitor	Dell	E177FPc	DOC	CNOFJ179-64180- 6AG-1WNS	
E-4	PC	Dell 745	DCSM	DOC	G7K832X	
E-5	Modem	ACEEX	DM-1414V	IFAXDM1414	0603002131	
E-6	USB Keyboard	Dell	L100	DOC	CNORH659658908 5C00U7	
E-7	USB Mouse	Dell	MO56UOA	DOC	FQJ000BS	
E-8	2.4G Wireless Red Laser Presenter	Kensington	M01174-T	GV3M01174-T	N/A	
E-9	Notebook	hp	HSTNN-I69C-3	DOC	CNU02203XG	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	1.5m	
C-2	YES	NO	1.5m	
C-3	YES	NO	1.5m	
C-4	YES	YES	1.2m	
C-5	YES	NO	1.5m	

Note:

(1) For detachable type I/O cable should be specified the length in m in $\[\]$ Length $\[\]$ column.



4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	May.04.2013
2	LISN	R&S	ENV216	100087	May.04.2013
3	Test Cable	N/A	C_17	N/A	Mar.28.2013
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	May.04.2013
5	50Ω Terminator	SHX	TF2-3G-A	08122902	May.04.2013

Remark: "N/A" denotes no model name, serial no. or 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

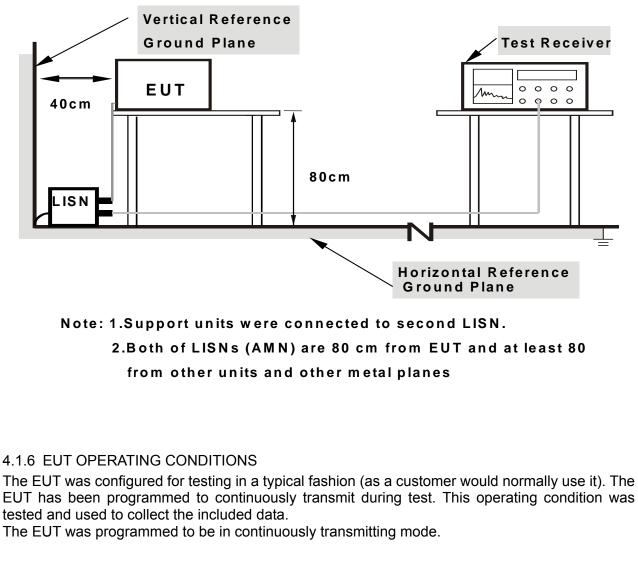
- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- 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





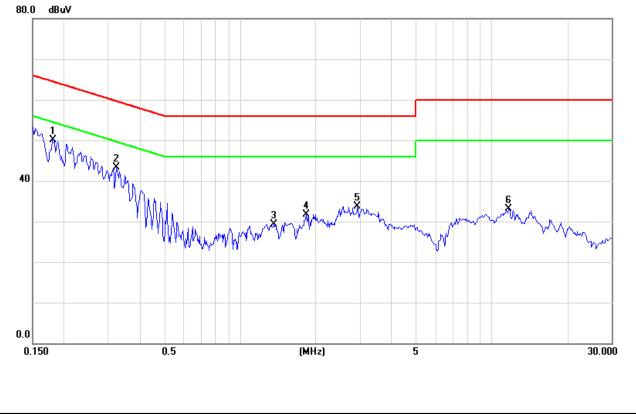
4.1.7 TEST RESULTS

E.U.T	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 ℃	Relative Humidity :	55 %
Pressure	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode	Normal Link		

Freq.	Terminal	Measure	d(dBuV)	Limits((dBuV)	Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.18	Line	50.20	*	64.44	54.44	-14.24	(QP)
0.32	Line	43.27	*	59.67	49.67	-16.40	(QP)
1.36	Line	29.28	*	56.00	46.00	-26.72	(QP)
1.83	Line	31.64	*	56.00	46.00	-24.36	(QP)
2.94	Line	33.63	*	56.00	46.00	-22.37	(QP)
11.72	Line	33.06	*	60.00	50.00	-26.94	(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.
- (3) "N/A" denotes test is not applicable in this Test Report.



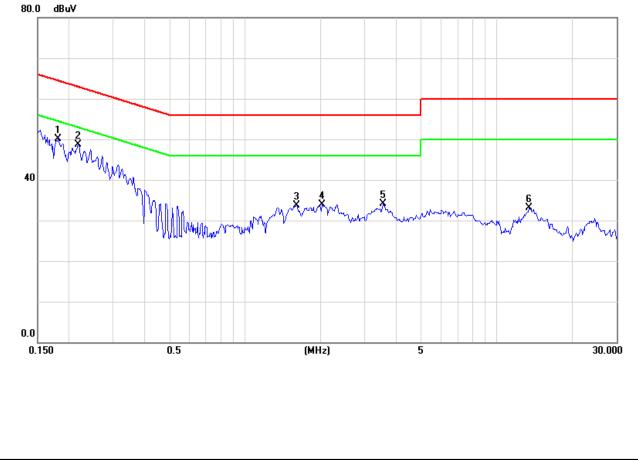


E.U.T	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 ℃	Relative Humidity :	55 %
Pressure	1010hPa	Test Voltage :	AC 120V/60Hz
Test Mode	Normal Link		

Freq.	Terminal	Measure	d(dBuV)	Limits((dBuV)	Margin	Note
(MHz)	L/N	QP-Mode	AV-Mode	QP-Mode	AV-Mode	(dB)	NOLE
0.18	Neutral	50.19	*	64.44	54.44	-14.25	(QP)
0.22	Neutral	48.72	*	62.92	52.92	-14.20	(QP)
1.60	Neutral	33.66	*	56.00	46.00	-22.34	(QP)
2.03	Neutral	33.86	*	56.00	46.00	-22.14	(QP)
3.54	Neutral	34.04	*	56.00	46.00	-21.96	(QP)
13.44	Neutral	33.01	*	60.00	50.00	-26.99	(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.
- (3) "N/A" denotes test is not applicable in this Test Report.



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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (FCC 15.209)

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
960~1000	500	3

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.209)

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

Notes:

(1) The limit for radiated test was performed according to FCC PART 15C.

- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC Part 15.249)

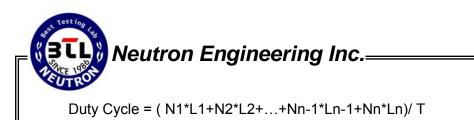
FCC Part15 (15.249), Subpart C				
Limit	Frequency Range (MHz)			
Field strength of fundamental 50000 μV/m (94 dBμV/m) @ 3 m	2400-2483.5			
Field strength of harmonics 500 μV/m (54 dBμV/m) @ 3 m	Above 2483.5			

4.2.2 MEASUREMENT INSTRUMENTS LIST

	1	,		1	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160	9160-3232	May.25.2013
2	Amplifier	HP	8447D	2944A09673	May.04.2013
3	Test Receiver	R&S	ESCI	100382	May.04.2013
4	Test Cable	N/A	C-01_CB03	N/A	Jul.01.2013
5	Antenna	ETS	3115	00075789	May.25.2013
6	Amplifier	Agilent	8449B	3008A02274	May.04.2013
7	Spectrum	Agilent	E4408B	US39240143	Nov.25.2012
8	Test Cable	HUBER+SUHNER	C-45	N/A	May.02.2013
9	Controller	СТ	SC100	N/A	N/A
10	Active Loop Antenna	R&S	HFH2-Z2	830749/020	May.04.2013
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct.13.2012
12	Horn Antenna	EMCO	3115	9605-4803	May.25.2013

Remark: "N/A" denotes no model name, serial no. or calibration specified.

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW (emission in restricted	1 MUE / 1 MUE for Deck, 1 MUE / 10UE for Average	
band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average	
Receiver Parameter	Setting	
Attenuation	Auto	
Start ~ Stop Frequency	9kHz~90kHz for PK/AVG detector	
Start ~ Stop Frequency	90kHz~110kHz for QP detector	
Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector	
Start ~ Stop Frequency Start ~ Stop Frequency	110kHz~490kHz for PK/AVG detector 490kHz~30MHz for QP detector	
· · · ·		

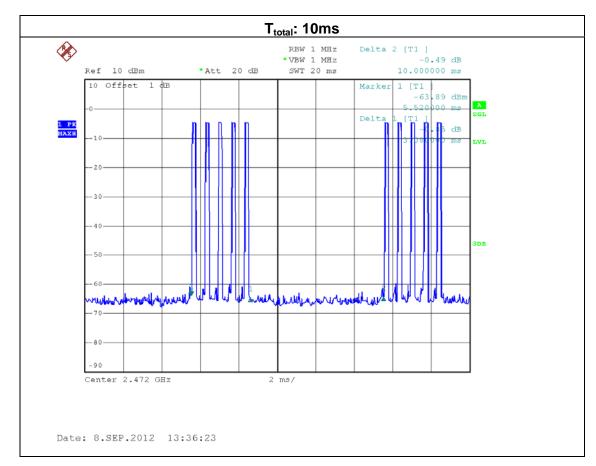


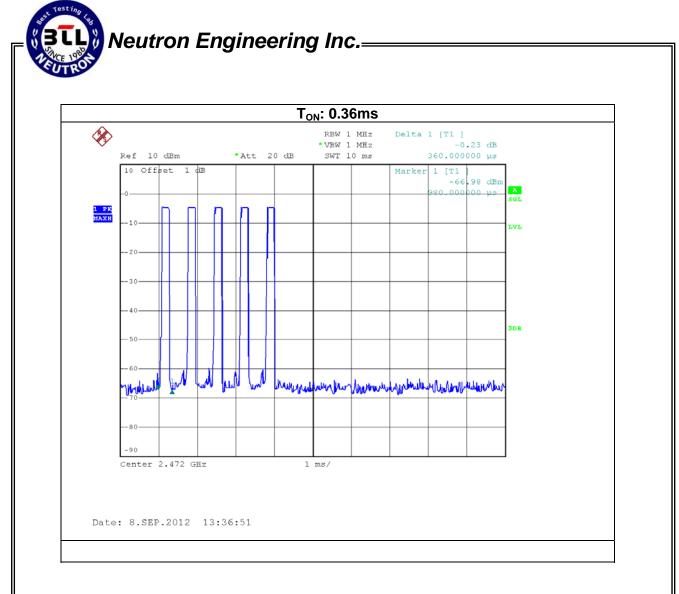
Duty Cycle = (0.36*5)/ 10msec=18%

Average Reading =Peak Reading (dBuV/m)+ 20log (Duty cycle)

Average Reading = Peak value + 20log(Duty cycle), AV=PK-14.89

4.2.4. DWELL TIME OF PERIODIC OPERATION MEASUREMENT







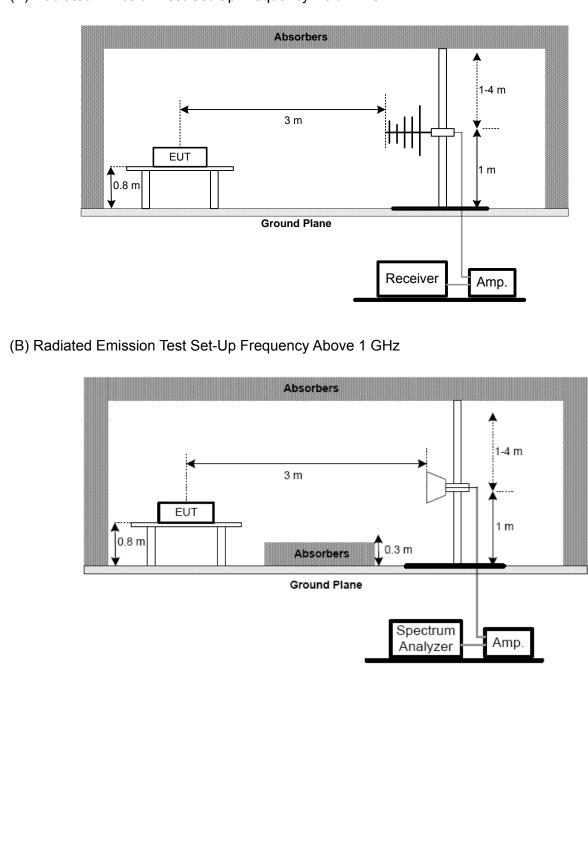
4.2.3 TEST PROCEDURE

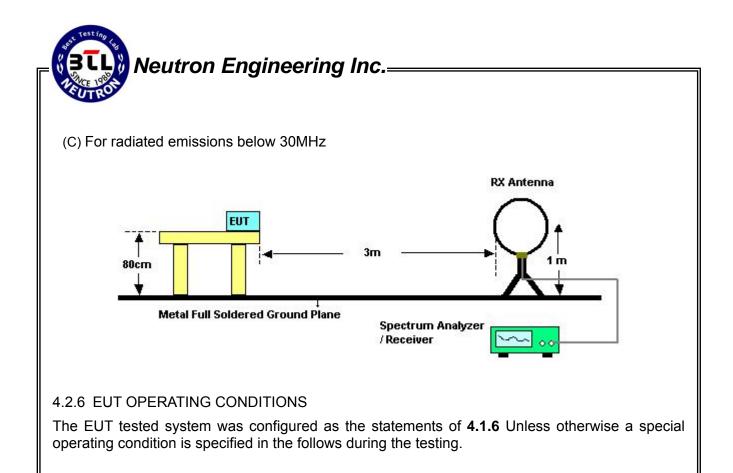
- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- 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 AV 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

4.2.5 TEST SETUP

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





4.2.7 TEST RESULTS (BELOW 30MHz)

EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	26 ℃	Relative Humidity	55 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX Mode 2412MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	
		• • •	· · · ·	· · · ·	, ,	-	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
0.0645	0°	24.67	22.11	46.78	111.41	-64.63	AV
0.0645	0°	35.75	23.76	59.51	131.41	-71.90	PK
0.0872	0°	19.88	21.66	41.54	108.80	-67.26	AV
0.0872	0°	34.58	21.90	56.48	128.80	-72.32	PK
0.4177	0°	22.69	20.00	42.69	95.19	-52.50	AV
0.4177	0°	32.41	20.14	52.55	115.19	-62.64	PK
0.8520	0°	27.87	20.19	48.06	69.00	-20.93	QP
1.2147	0°	28.89	19.58	48.47	65.91	-17.45	QP
2.1279	0°	27.98	19.42	47.40	69.54	-22.14	QP

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	INDLE
0.0467	90°	12.36	22.61	34.97	114.22	-79.25	AV
0.0467	90°	24.32	22.25	46.57	134.22	-87.65	PK
0.1025	90°	20.06	21.36	41.42	107.39	-65.97	QP
0.2457	90°	21.39	20.41	41.80	99.80	-58.00	AV
0.2457	90°	33.25	21.19	54.44	119.80	-65.36	PK
0.7853	90°	25.73	20.46	46.19	69.70	-23.51	QP
1.5827	90°	28.89	19.54	48.43	63.62	-15.19	QP
2.0727	90°	25.54	19.46	45.00	69.54	-24.54	QP

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB);.
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor..

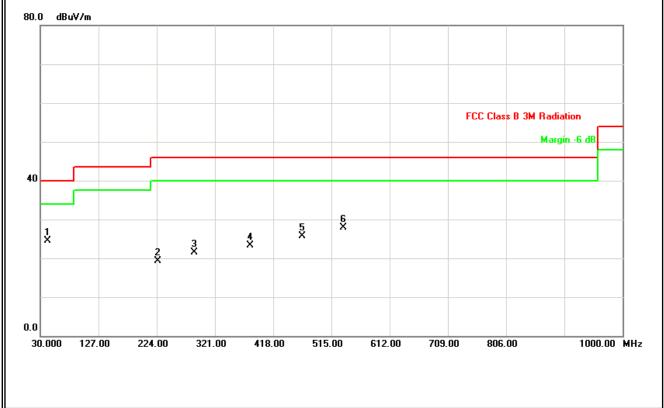


4.2.8 TEST RESULTS (BETWEEN 30 - 1000 MHz)

EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 °C	Relative Humidity	58 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX Mode 2412MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
42.13	V	41.09	-16.68	24.41	40.00	- 15.59	
226.43	V	34.92	-15.69	19.23	46.00	- 26.77	
287.05	V	33.78	-12.23	21.55	46.00	- 24.45	
379.20	V	33.00	-9.78	23.22	46.00	- 22.78	
466.50	V	33.59	-7.87	25.72	46.00	- 20.28	
534.40	V	33.96	-6.07	27.89	46.00	- 18.11	

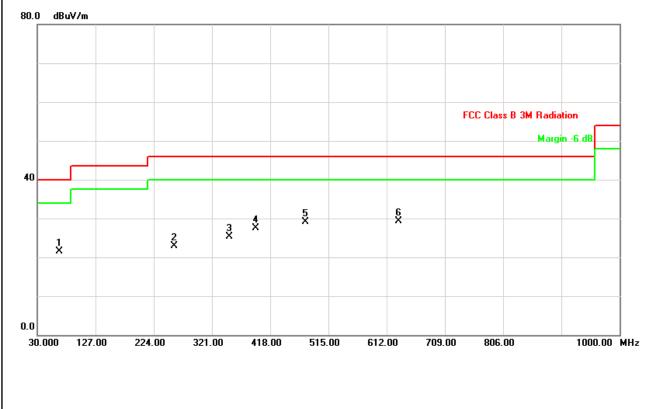
- (1) All readings are Peak unless otherwise stated QP in column of "Note]. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission .
- (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.



EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 °C	Relative Humidity	58 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX Mode 2412MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
66.38	Н	39.37	-17.81	21.56	40.00	- 18.44	
257.95	Н	36.97	-14.00	22.97	46.00	- 23.03	
350.10	Н	36.23	-10.84	25.39	46.00	- 20.61	
393.75	Н	36.79	-9.25	27.54	46.00	- 18.46	
476.20	Н	36.79	-7.72	29.07	46.00	- 16.93	
631.40	Н	32.89	-3.68	29.21	46.00	- 16.79	

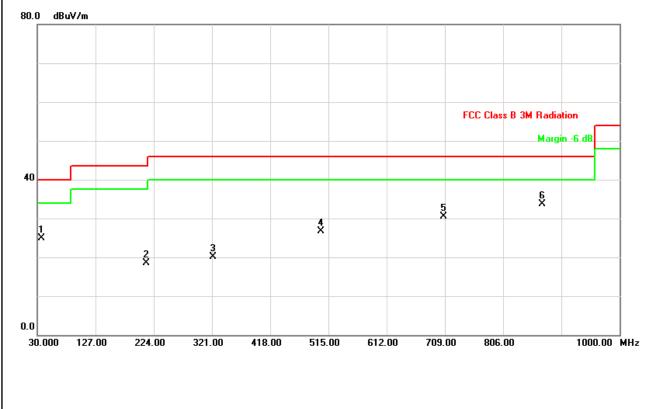
- (1) All readings are Peak unless otherwise stated QP in column of "Note ... Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission .
- (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.



EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 ℃	Relative Humidity	58 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX Mode 2442MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
37.28	V	41.85	-16.99	24.86	40.00	- 15.14	
211.88	V	34.65	-16.22	18.43	43.50	- 25.07	
323.43	V	31.64	-11.49	20.15	46.00	- 25.85	
502.88	V	33.86	-7.25	26.61	46.00	- 19.39	
706.58	V	33.57	-3.09	30.48	46.00	- 15.52	
871.48	V	34.18	-0.53	33.65	46.00	- 12.35	

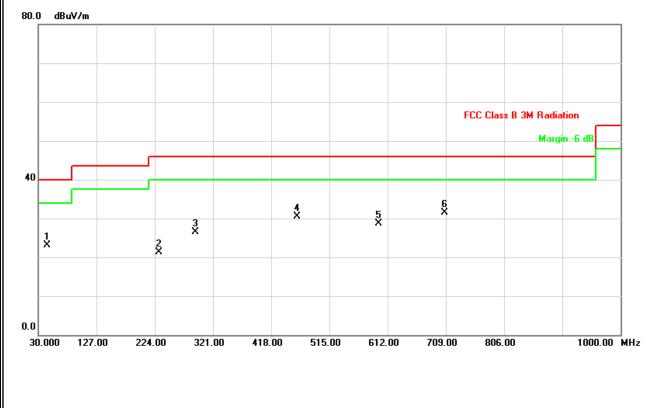
- (1) All readings are Peak unless otherwise stated QP in column of "Note ... Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission .
- (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.



EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 °C	Relative Humidity	58 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX Mode 2442MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
44.55	Н	40.18	-16.99	23.19	40.00	- 16.81	
231.28	Н	36.79	-15.56	21.23	46.00	- 24.77	
291.90	Н	38.60	-12.06	26.54	46.00	- 19.46	
461.65	Н	38.41	-7.93	30.48	46.00	- 15.52	
597.45	Н	33.02	-4.33	28.69	46.00	- 17.31	
706.58	Н	34.54	-3.09	31.45	46.00	- 14.55	

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission .
- (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.



EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 ℃	Relative Humidity	58 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX Mode 2472MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
42.13	V	41.09	-16.68	24.41	40.00	- 15.59	
88.20	V	36.10	-19.08	17.02	43.50	- 26.48	
282.20	V	34.96	-12.52	22.44	46.00	- 23.56	
379.20	V	34.00	-9.78	24.22	46.00	- 21.78	
449.53	V	33.40	-8.13	25.27	46.00	- 20.73	
626.55	V	35.45	-3.77	31.68	46.00	- 14.32	

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission .
- (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.

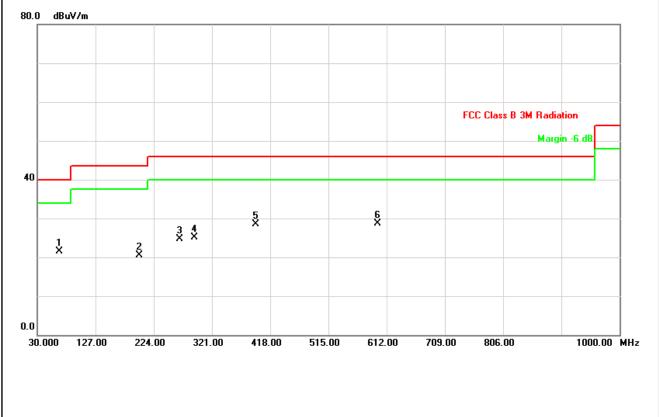




EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 ℃	Relative Humidity	58 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX Mode 2472MHz		

-							
Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
66.38	Н	39.37	-17.81	21.56	40.00	- 18.44	
199.75	Н	37.11	-16.57	20.54	43.50	- 22.96	
267.65	H	38.10	-13.42	24.68	46.00	- 21.32	
291.90	Н	37.10	-12.06	25.04	46.00	- 20.96	
393.75	Н	37.79	-9.25	28.54	46.00	- 17.46	
597.45	Н	33.02	-4.33	28.69	46.00	- 17.31	

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission .
- (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.

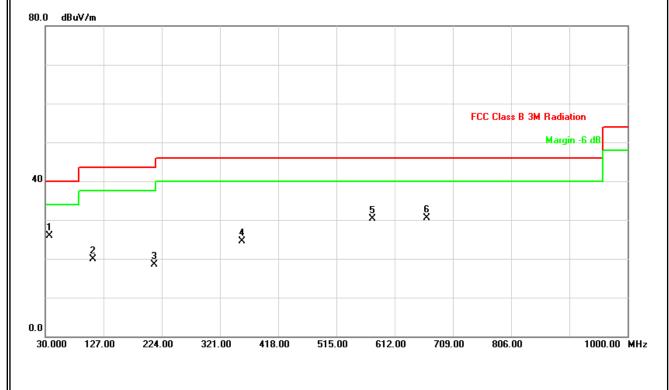




EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 ℃	Relative Humidity	58 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	RX Mode 2412MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Nista
(MHz)	H/V	(dBuV)	(dB) `´	(dBuV/m)	(dBuV/m)	(dB)	Note
37.28	V	42.85	-16.99	25.86	40.00	- 14.14	
110.03	V	38.36	-18.36	20.00	43.50	- 23.50	
211.88	V	34.65	-16.22	18.43	43.50	- 25.07	
357.38	V	35.12	-10.57	24.55	46.00	- 21.45	
575.63	V	35.14	-4.87	30.27	46.00	- 15.73	
665.35	V	33.88	-3.29	30.59	46.00	- 15.41	

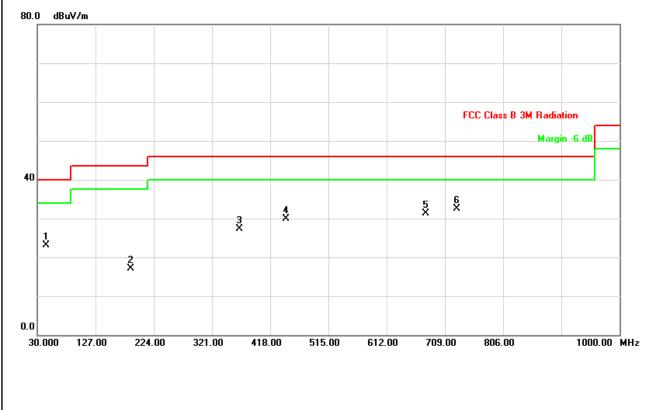
- (1) All readings are Peak unless otherwise stated QP in column of "Note ... Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission .
- (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.



EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 ℃	Relative Humidity	58 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	RX Mode 2412MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
44.55	Н	40.18	-16.99	23.19	40.00	- 16.81	
185.20	Н	33.97	-16.81	17.16	43.50	- 26.34	
367.08	Н	37.49	-10.21	27.28	46.00	- 18.72	
444.68	Н	38.06	-8.21	29.85	46.00	- 16.15	
677.48	Н	34.55	-3.25	31.30	46.00	- 14.70	
728.40	Н	35.35	-2.83	32.52	46.00	- 13.48	

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission .
- (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.

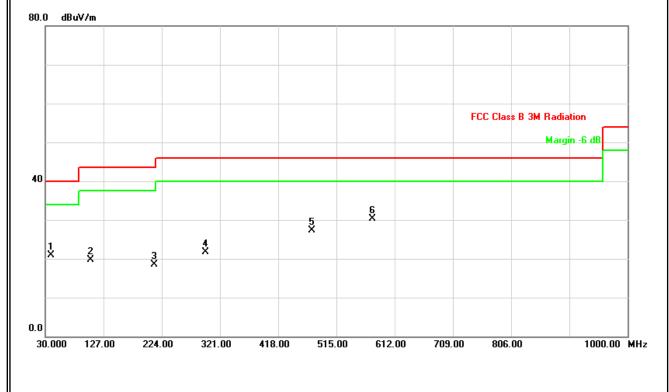




EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 ℃	Relative Humidity	58 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	RX Mode 2442MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Nata
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
39.70	V	37.68	-16.83	20.85	40.00	- 19.15	
105.18	V	38.01	-18.38	19.63	43.50	- 23.87	
211.88	V	34.65	-16.22	18.43	43.50	- 25.07	
296.75	V	33.70	-12.07	21.63	46.00	- 24.37	
473.78	V	34.97	-7.75	27.22	46.00	- 18.78	
575.63	V	35.14	-4.87	30.27	46.00	- 15.73	

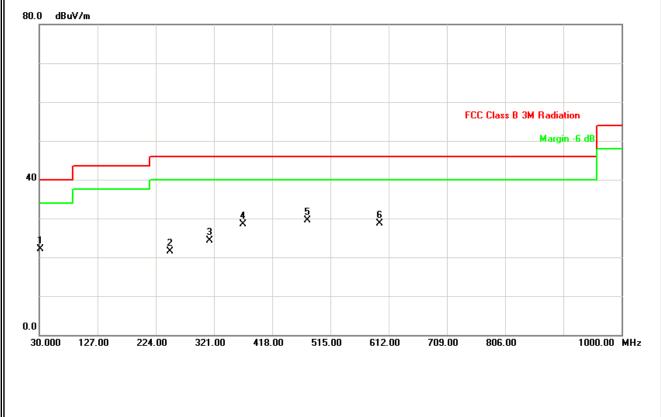
- (1) All readings are Peak unless otherwise stated QP in column of "Note ... Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission .
- (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.



EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 ℃	Relative Humidity	58 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	RX Mode 2442MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
32.43	Н	38.55	-16.50	22.05	40.00	- 17.95	
248.25	Н	36.18	-14.66	21.52	46.00	- 24.48	
313.73	Н	35.97	-11.74	24.23	46.00	- 21.77	
369.50	Н	38.57	-10.13	28.44	46.00	- 17.56	
476.20	Н	37.29	-7.72	29.57	46.00	- 16.43	
597.45	Н	33.02	-4.33	28.69	46.00	- 17.31	

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission .
- (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.

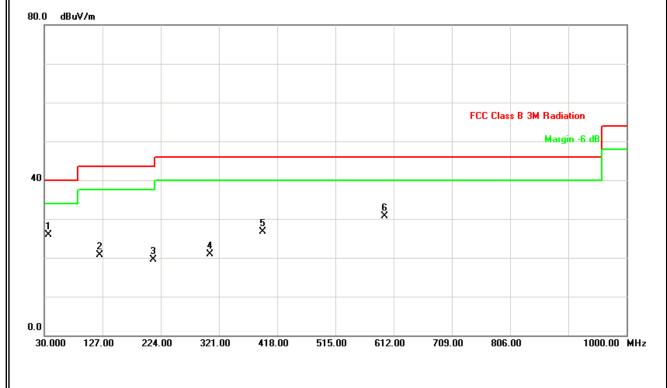




EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 ℃	Relative Humidity	58 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	RX Mode 2472MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
37.28	V	42.85	-16.99	25.86	40.00	- 14.14	
122.15	V	38.97	-18.25	20.72	43.50	- 22.78	
211.88	V	35.65	-16.22	19.43	43.50	- 24.07	
306.45	V	32.74	-11.91	20.83	46.00	- 25.17	
393.75	V	35.98	-9.25	26.73	46.00	- 19.27	
597.45	V	35.08	-4.33	30.75	46.00	- 15.25	

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission .
- (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.



EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 ℃	Relative Humidity	58 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	RX Mode 2472MHz		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
44.55	Н	42.18	-16.99	25.19	40.00	- 14.81	
110.03	Н	36.53	-18.36	18.17	43.50	- 25.33	
231.28	Н	35.79	-15.56	20.23	46.00	- 25.77	
284.63	Н	35.96	-12.37	23.59	46.00	- 22.41	
415.58	Н	38.63	-8.74	29.89	46.00	- 16.11	
636.25	Н	34.60	-3.60	31.00	46.00	- 15.00	

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission .
- (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.

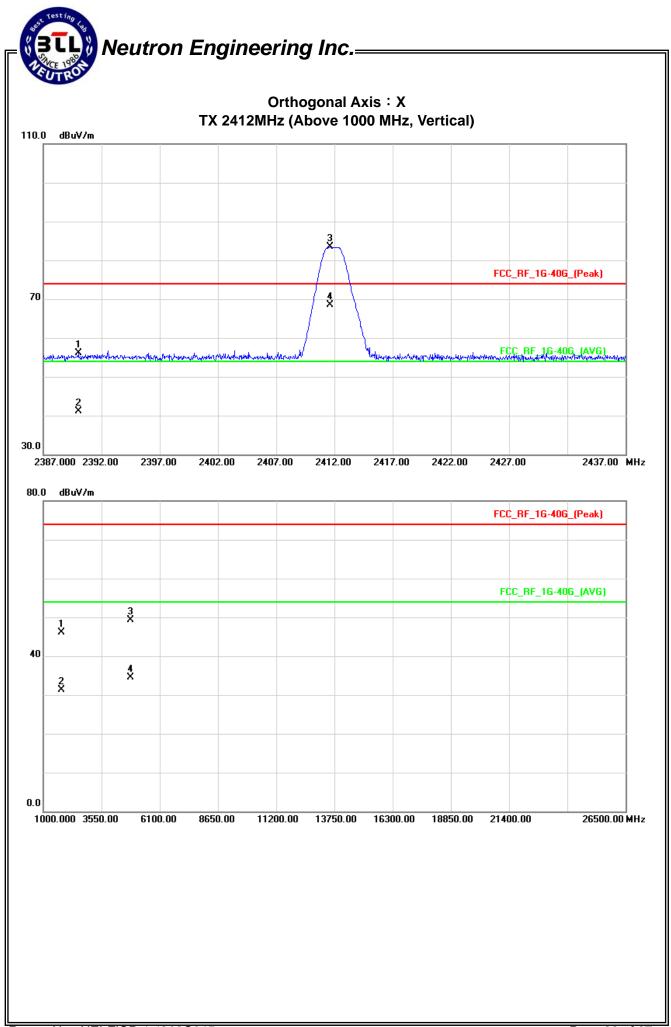


4.2.9 TEST RESULTS (ABOVE 1000 MHz)

EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	22 °C	Relative Humidity	60 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX 2412MHz		

Freq.	Ant.Pol.	Rea	Reading		A	ct.	Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	23.77	8.88	32.28	56.05	41.16	74.00	54.00	X/E
2411.60	V	51.17	36.28	32.26	83.43	68.54	114.00	94.00	X/F
1799.12	V	48.99	34.10	-2.85	46.14	31.25	74.00	54.00	X/H
4824.03	V	43.16	28.27	6.19	49.35	34.46	74.00	54.00	X/H

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."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 .
- (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-14.89





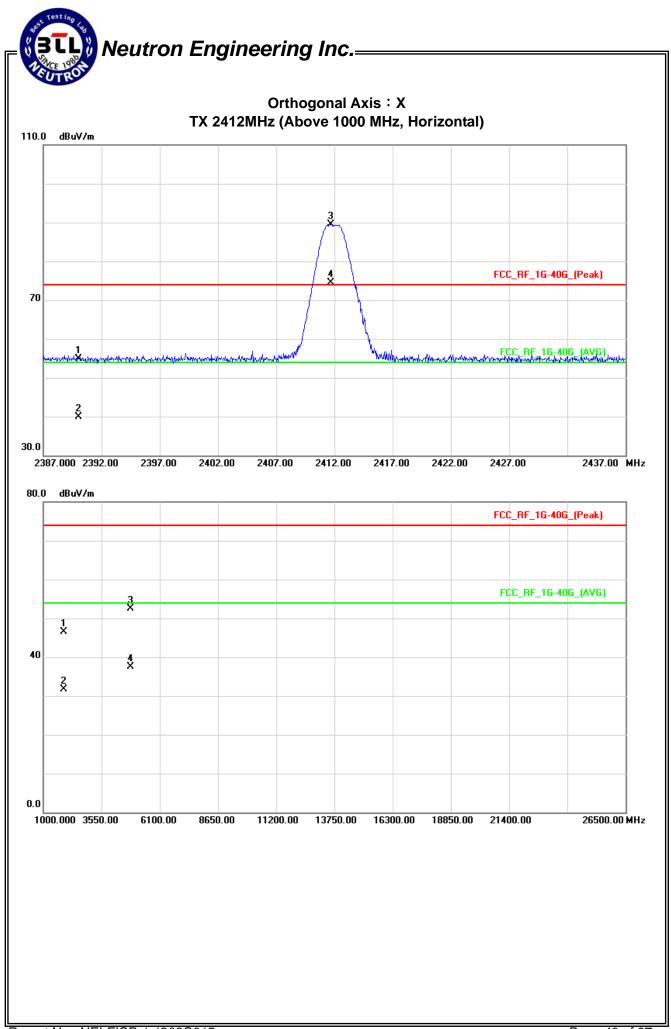
EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	22 ℃	Relative Humidity	60 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX 2412MHz		

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)	
2390.00	H	22.53	7.64	32.28	54.81	39.92	74.00	54.00	X/E
2411.70	Н	57.17	42.28	32.26	89.43	74.54	114.00	94.00	X/F
1901.12	Н	48.24	33.35	-1.71	46.53	31.64	74.00	54.00	X/H
4824.13	Н	46.26	31.37	6.19	52.45	37.56	74.00	54.00	X/H

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."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 .
- (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-14.89





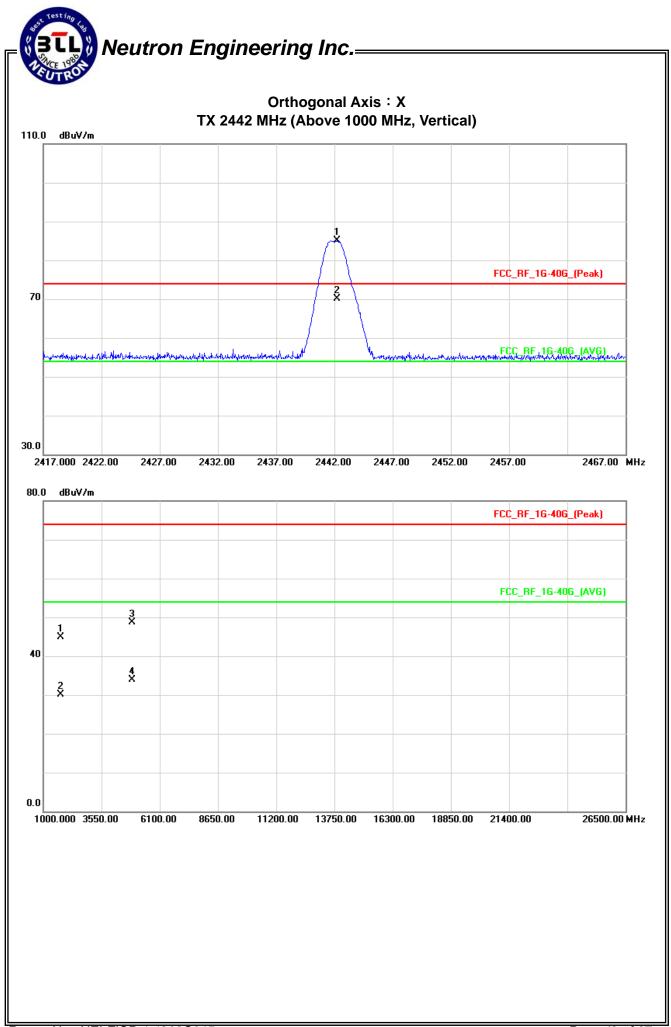
EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	22 °C	Relative Humidity	60 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX 2442MHz		

ſ	Freq.	Ant.Pol.	Rea	Reading		Act.		Lir		
			Peak	AV		Peak	AV	Peak	AV	Note
	(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
	2442.25	V	52.82	37.93	32.23	85.05	70.16	114.00	94.00	X/F
	1748.20	V	48.33	33.44	-3.43	44.90	30.01	74.00	54.00	X/H
	4884.26	V	42.35	27.46	6.43	48.78	33.89	74.00	54.00	X/H

- (1) All readings are Peak unless otherwise stated QP in column of ^TNote ... Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "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 .
- (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-14.89

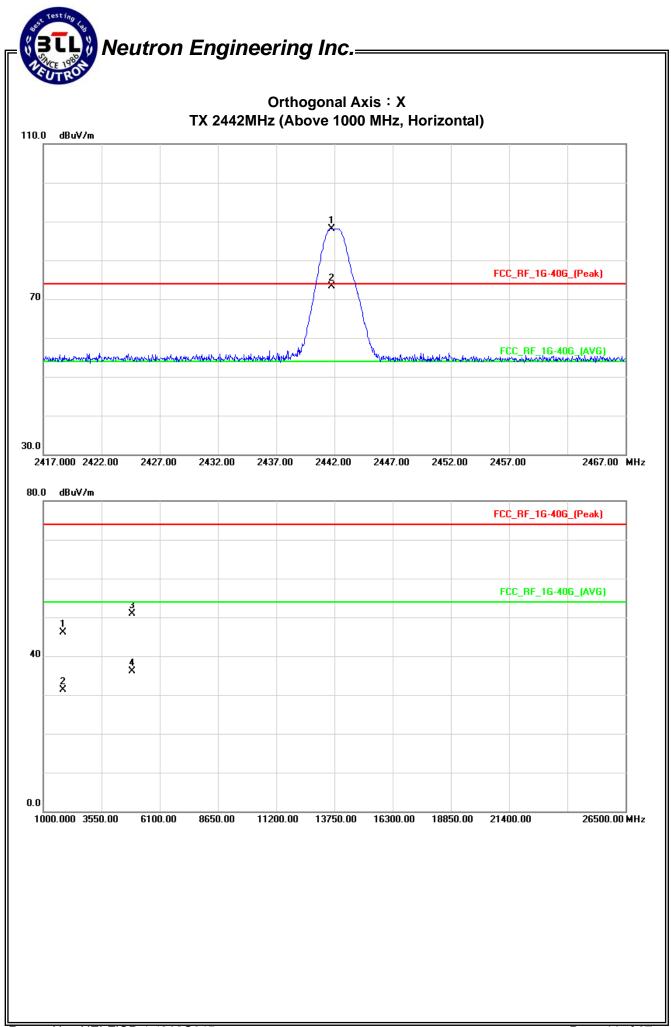




EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	22 °C	Relative Humidity	60 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX 2442MHz		

ſ	Freq.	Ant.Pol.	Rea	Reading		Act.		Lir		
			Peak	AV		Peak	AV	Peak	AV	Note
	(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
	2441.75	Н	55.95	41.06	32.23	88.18	73.29	114.00	94.00	X/F
	1870.32	Н	48.19	33.30	-2.06	46.13	31.24	74.00	54.00	X/H
	4883.97	Н	44.50	29.61	6.43	50.93	36.04	74.00	54.00	X/H

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."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 .
- (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-14.89

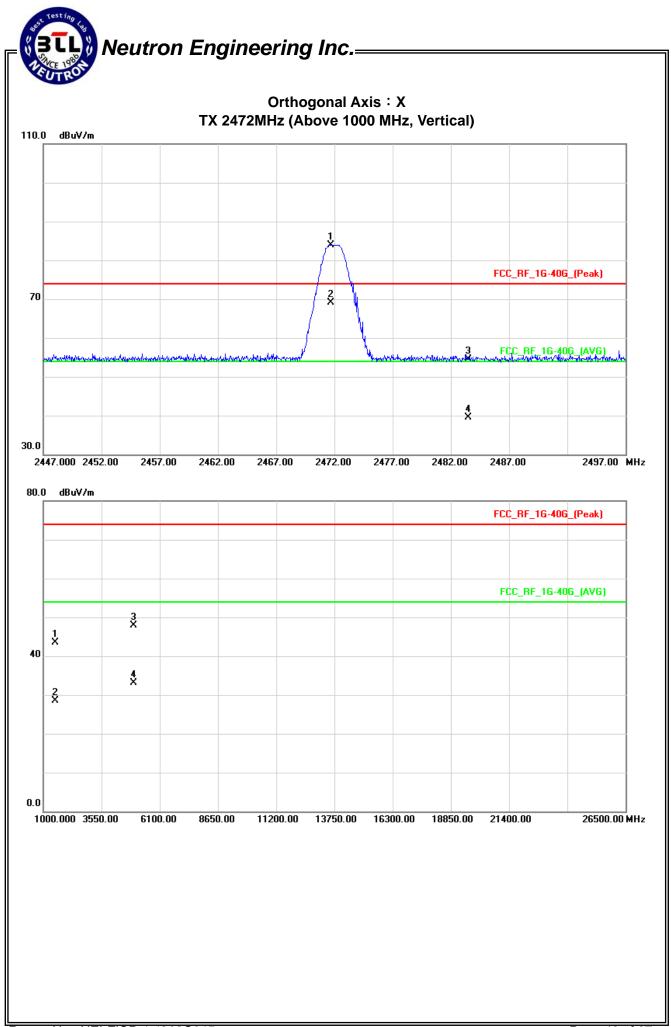




EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	22 °C	Relative Humidity	60 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX 2472MHz		

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)	
2471.70	V	51.76	36.87	32.19	83.95	69.06	114.00	94.00	X/F
2483.50	V	22.30	7.41	32.17	54.47	39.58	74.00	54.00	X/E
1512.10	V	49.49	34.60	-6.08	43.41	28.52	74.00	54.00	X/H
4944.16	V	41.27	26.38	6.68	47.95	33.06	74.00	54.00	X/H

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."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 .
- (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-14.89





EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	22 °C	Relative Humidity	60 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX 2472MHz		

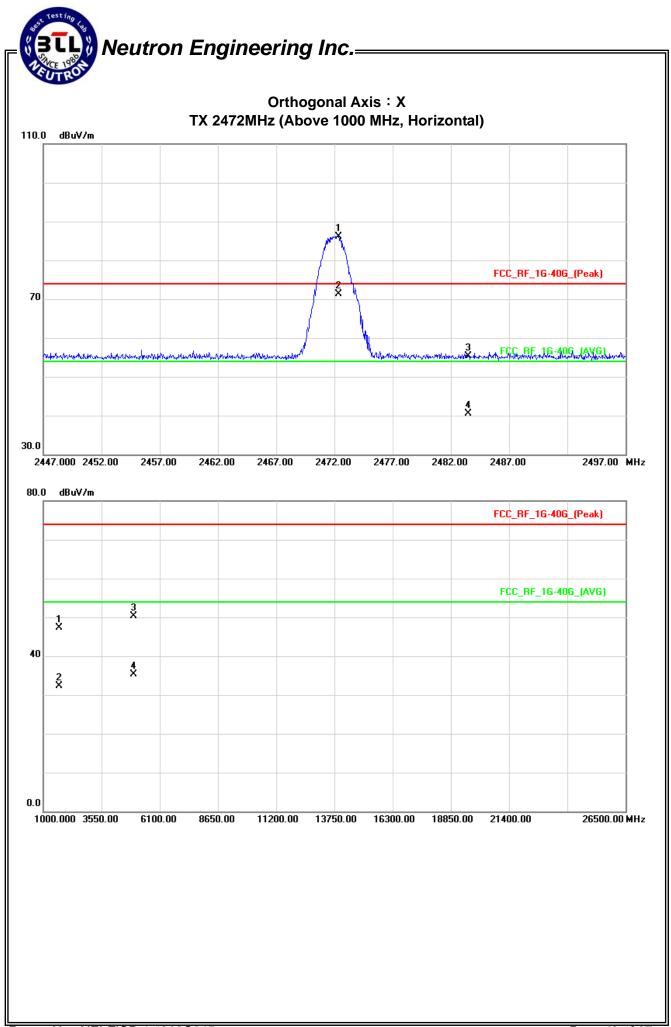
Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		nit	
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2472.35	Н	54.00	39.11	32.19	86.19	71.30	114.00	94.00	X/F
2483.50	Н	23.14	8.25	32.17	55.31	40.42	74.00	54.00	X/E
1683.50	Н	51.43	36.54	-4.14	47.29	32.40	74.00	54.00	X/H
4944.04	Н	43.57	28.68	6.68	50.25	35.36	74.00	54.00	X/H

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency."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 .
- (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-14.89





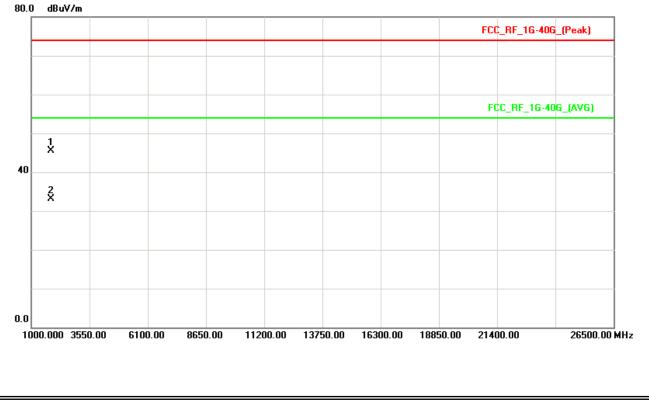
EUT Temperatu		2.4G Wire 22 ℃			Model Nar Relative H	-	M01174-D 60 %		
Pressure		1009 hPa			Test Powe	,	AC 120V/60		
est Mode		RX Mode	2412MHz		TESLEOWE	ii i		JI 12	
Freq.	Ant.Pol	Re	ading	Ant./CF	A	ct.	Limit		
		Peak	AV		Peak	AV	Peak	AV	No
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
1889.51	V	46.04	33.89	-1.84	44.20	32.05	74.00	54.00	Х/
(2)	that the I perform. Measurin fundame "E" den Requirer Radiated	Peak readin ng frequen ental freque otes band nent.)	ak unless oth ng compliand cy range fro ency."F" deno edge freq s measured	ce with the om 1000N otes funda uency. (T l in freque	e QP Limits /IHz to 6000 amental freq This judgme ency range	and then G DMHz or th uency; "H" ent method above 100	P Mode me ne 10th harr denotes spu d includes 00MHz wer	asurement monic of hig urious frequ the Band e made wit	ghes ency Edg
(5)	reading of strength A prean measure EUT Ort	measurem of emission is too sma up and hi ment sens hogonal Ax	ent within thi ns are attenu Il to be meas gh pass filt ittivity.	is frequen lated more sured. er were	cy range sh e than 20dB used for th	nown"*"ir below the nis test in	n the table a permissible order to p	bove mean limits or the provide suff	e fiel
(5) (6)	reading of strength A prean measure EUT Ort "X" - den	measurem of emission is too sma up and hi ment sens hogonal Ax	ent within thi ns are attenu Il to be meas gh pass filt itivity. cis :	is frequen lated more sured. er were	cy range sh e than 20dB used for th	nown"*"ir below the nis test in	n the table a permissible order to p	bove mean limits or the provide suff e Stand	e fiel
(5) (6)	reading of strength A prean measure EUT Ort "X" - den	measurem of emission is too sma up and hi ment sens hogonal Ax	ent within thi ns are attenu Il to be meas gh pass filt itivity. cis :	is frequen lated more sured. er were	cy range sh e than 20dB used for th	nown"*"ir below the nis test in	n the table a permissible order to p denotes Sid	bove mean limits or the provide suff e Stand	e fiel
(5) (6)	reading of strength A prean measure EUT Ort "X" - den	measurem of emission is too sma up and hi ment sens hogonal Ax	ent within thi ns are attenu Il to be meas gh pass filt itivity. cis :	is frequen lated more sured. er were	cy range sh e than 20dB used for th	nown"*"ir below the nis test in	n the table a permissible order to p denotes Sid	bove mean limits or the provide suff e Stand	e fiel
(5) (6) 80.0 dBu¥/	reading of strength A prean measure EUT Ort "X" - den	measurem of emission is too sma up and hi ment sens hogonal Ax	ent within thi ns are attenu Il to be meas gh pass filt itivity. cis :	is frequen lated more sured. er were	cy range sh e than 20dB used for th	nown"*"ir below the nis test in	n the table a permissible order to p denotes Sid	bove mean limits or the provide suff e Stand	e fiel
(5) (6) 80.0 dBuV/	reading of strength A prean measure EUT Ort "X" - den	measurem of emission is too sma up and hi ment sens hogonal Ax	ent within thi ns are attenu Il to be meas gh pass filt itivity. cis :	is frequen lated more sured. er were	cy range sh e than 20dB used for th	nown"*"ir below the nis test in	n the table a permissible order to p denotes Sid	bove mean limits or the provide suff e Stand	e fiel
(5) (6) 80.0 dBuV/ 40	reading of strength A prean measure EUT Ort "X" - den	measurem of emission is too sma up and hi ment sens hogonal Ax	ent within thi ns are attenu Il to be meas gh pass filt itivity. cis :	is frequen lated more sured. er were	cy range sh e than 20dB used for th	nown"*"ir below the nis test in	n the table a permissible order to p denotes Sid	bove mean limits or the provide suff e Stand	e fiel
(5) (6) 80.0 dBuV/ 40	reading of strength A prean measure EUT Ort "X" - den	measurem of emission is too sma up and hi ment sens hogonal Ax	ent within thi ns are attenu Il to be meas gh pass filt itivity. cis :	is frequen lated more sured. er were	cy range sh e than 20dB used for th	nown"*"ir below the nis test in	n the table a permissible order to p denotes Sid	bove mean limits or the provide suff e Stand	e fiel



EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	22 °C	Relative Humidity	60 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	RX Mode 2412MHz		

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)	
1862.02	Н	47.58	35.26	-2.15	45.43	33.11	74.00	54.00	X/E

- (1) All readings are Peak unless otherwise stated QP in column of ^rNote ... Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency."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 .
- (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





t			2442MHz eading AV	Ant./CF		r A	60 % AC 120V/60 Lir			
Freq. (MHz) 1678.16 Remark : (1) /	Ant.Pol. H/V	RX Mode Re Peak (dBuV)	eading AV	Ant./CF	Ac					
Freq. (MHz) 1678.16 Remark : (1) /	Ant.Pol. H/V	Re Peak (dBuV)	eading AV	Ant./CF		ct.	Lir	nit		
(MHz) 1678.16 Remark : (1) /	H/V	Peak (dBuV)	AV	Ant./CF		ct.	Lir	nit		
(MHz) 1678.16 Remark : (1) /	H/V	Peak (dBuV)	AV	/ 110./ 01		Act.		Limit		
1678.16 Remark: (1) / 1		(dBuV)			Peak	AV	Peak	AV	No	
Remark : (1) / 1	V	15.63	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
(1) / 1 		45.05	33.54	-4.21	41.42	29.33	74.00	54.00	Χ/	
(3) (3) (4) (5) / (5) /	that the F perform. Measurin fundamen fundamen E Requirem Radiated nstrumer Data of n reading c strength i A pream measuren EUT Orth	Peak readin ng frequen ntal freque otes band nent.) emission nt using Pe neasureme of emission is too smal up and hig ment sens nogonal Ax		ce with the om 1000M otes funda uency. (T I in freque mode and is frequen lated more sured. er were	e QP Limits /IHz to 6000 amental freq his judgme ency range d AV detecto cy range sh e than 20dB used for th	and then Q DMHz or th uency; "H" above 100 or mode of th own " * " in below the his test in	P Mode me e 10th harr denotes spu includes f 00MHz were he emission the table a permissible order to p	asurement monic of hig urious frequ the Band e made wit a. bove mean limits or the provide suff	ghes ency Edge th an s the s the	
80.0 dBuV/n	n						FCC_RF_1G-	40G_(Peak)]	
							FCC_RF_16	i-40 <u>G_(AVG)</u>		
40 ×										



EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	22 °C	Relative Humidity	60 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	RX Mode 2442MHz		

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)	
1791.32	Н	49.24	35.09	-2.93	46.31	32.16	74.00	54.00	X/E

- (1) All readings are Peak unless otherwise stated QP in column of ^rNote ... Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency."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 .
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- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table ; "Y" denotes Vertical Stand ; "Z" denotes Side Stand





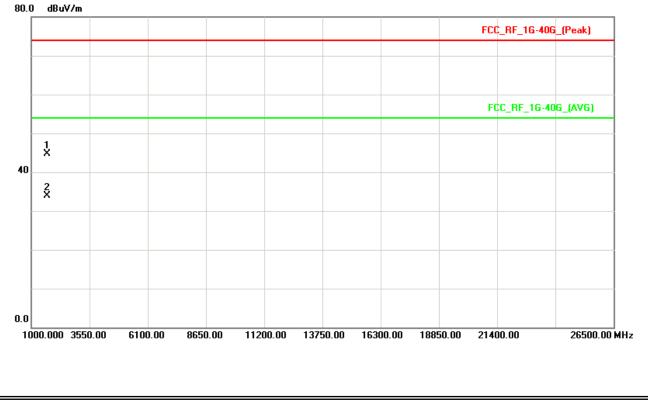
EUT		2.4G Wireless Receiver		Model Name		M01174-D			
Temperati		22 ℃			Relative H	,	60 %		
Pressure		1009 hPa	<u></u>		Test Powe	r	AC 120V/60)Hz	
Fest Mode	e l	XX Mode	2472MHz						
Freq.	Ant.Pol.	Re	eading	Ant./CF			Lii		
(MHz)	H/V	Peak (dBuV)	AV (dBuV)	CF(dB)	Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	No
1635.25	V	47.10	35.62	-4.70	42.40	30.92	74.00	54.00	Х/
(3)	perform. Measurin fundame "E" deno Requiren Radiated instrumen Data of n reading o	g frequen ntal freque otes band nent.) emission nt using Pe neasureme f emissior	ng complian cy range fro ency."F" deno edge freq s measured eak detector ent within th ns are attenu Il to be meas	om 1000M otes funda uency. (T in freque mode and is frequen lated more	AHz to 6000 amental freq his judgme ency range d AV detecto cy range sh	DMHz or th uency; "H" ent method above 10 or mode of nown "*" in	ne 10th han denotes spud includes 00MHz were the emission n the table a	monic of hig urious frequ the Band e made wit n . above mean	ghes ency Edge th ai
	measure EUT Orth	p and hi ment sens logonal Ax	gh pass filt itivity. (is :	er were					icier
(6)	measure EUT Orth "X" - deno	p and hi ment sens logonal Ax	gh pass filt iitivity.	er were				e Stand	icier
(6)	measure EUT Orth "X" - deno	p and hi ment sens logonal Ax	gh pass filt itivity. (is :	er were			denotes Sid	e Stand	
(6)	measure EUT Orth "X" - deno	p and hi ment sens logonal Ax	gh pass filt itivity. (is :	er were			denotes Sid	e Stand	
(6)	measure EUT Orth "X" - deno	p and hi ment sens logonal Ax	gh pass filt itivity. (is :	er were			denotes Sid	e Stand 406_(Peak)	



EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	22 °C	Relative Humidity	60 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	RX Mode 2472MHz		

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)	
1707.30	Н	48.68	37.85	-3.89	44.79	33.96	74.00	54.00	X/E

- (1) All readings are Peak unless otherwise stated QP in column of ^rNote ... Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 1000MHz to 6000MHz or the 10th harmonic of highest fundamental frequency."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 .
- (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



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5. BANDWIDTH TEST

5.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov.26.2012

Remark: "N/A" denotes no model name, serial no. or calibration specified.

5.2 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 = 2.5 ms.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

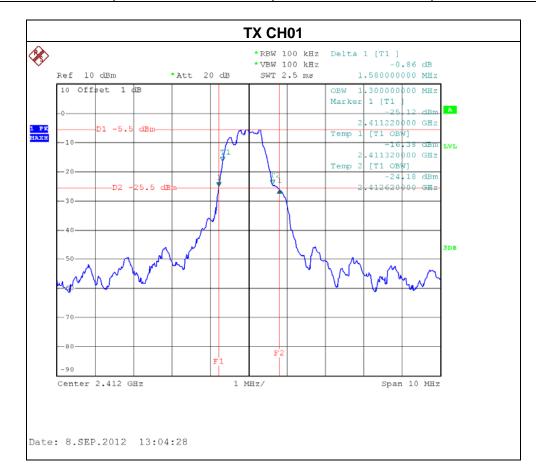
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

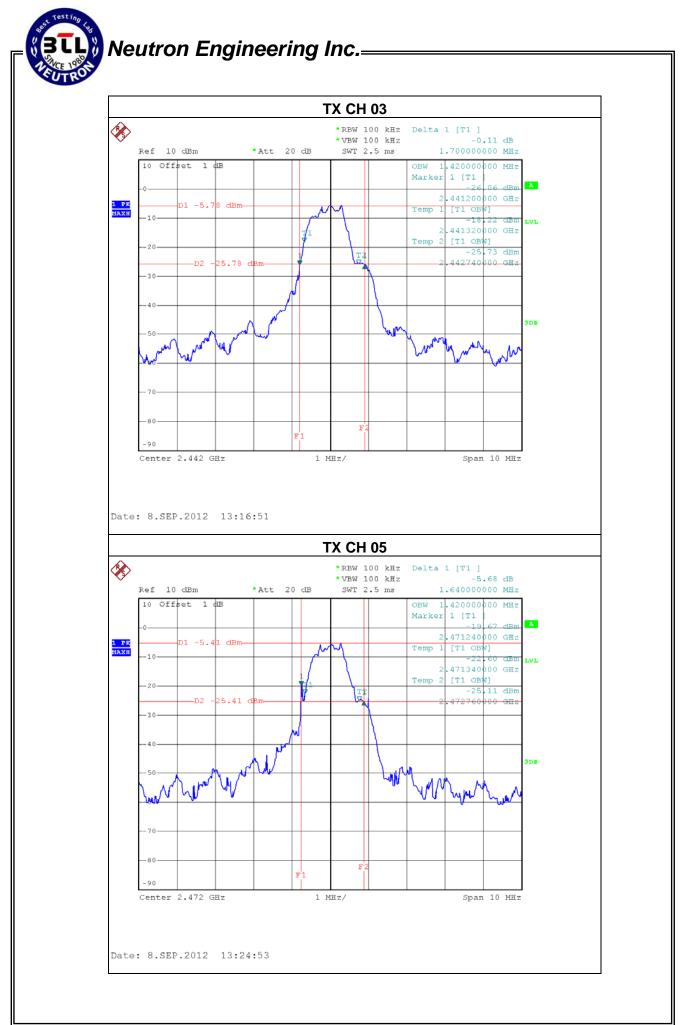
Neutron Engineering Inc.=

5.6 TEST RESULTS

EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 ℃	Relative Humidity	55 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX CH 01/03/05		

Test Channel	Frequency (MHz)	20 dBc Bandwidth (MHz)	99% occupied Bandwidth(MHz)
CH 01	2412	1.58	1.30
CH 03	2442	1.70	1.42
CH 05	2472	1.64	1.42







6. ANTENNA CONDUCTED SPURIOUS EMISSION

6.1 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	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
960~1000	500	3

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.26.2012

Remark: "N/A" denotes no model name, serial no. or calibration specified.

6.1.2 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 = 10 ms.

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

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.

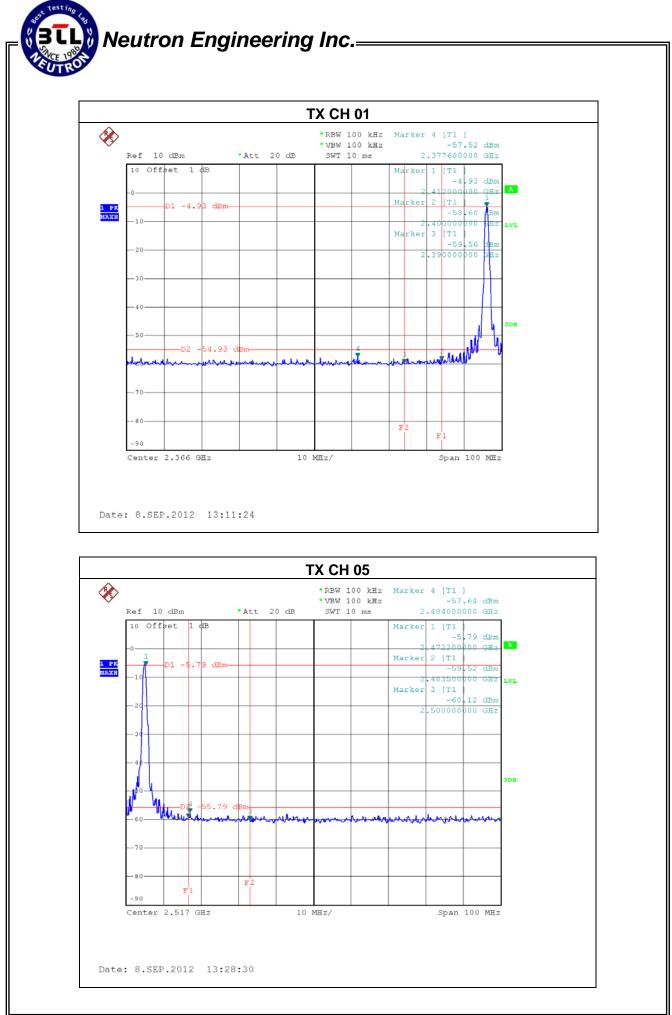


6.1.6 TEST RESULTS

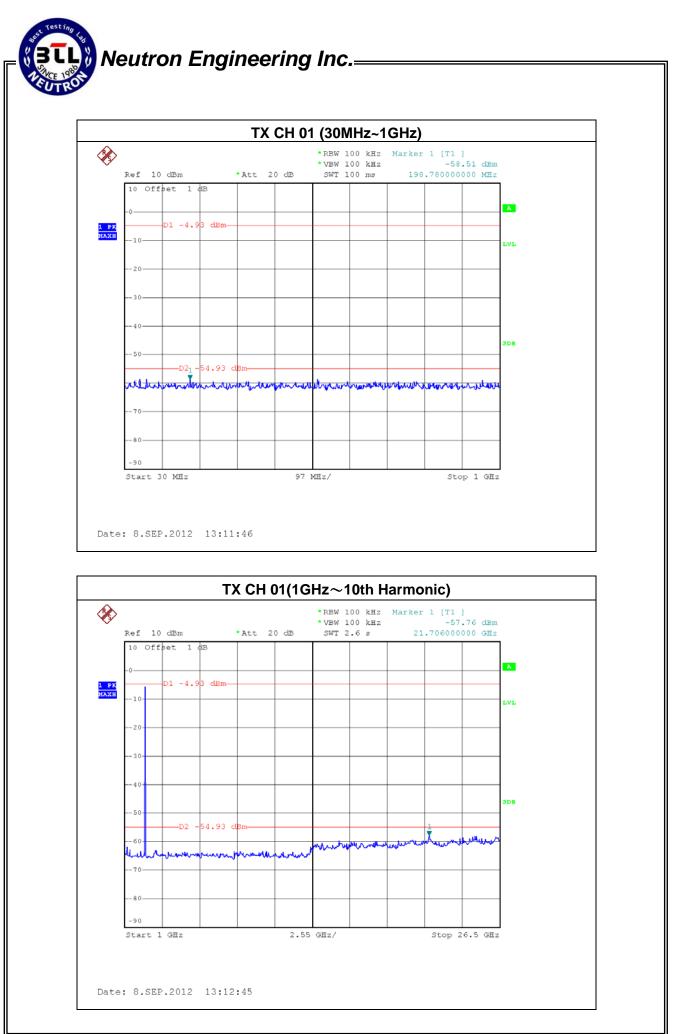
EUT	2.4G Wireless Receiver	Model Name	M01174-D
Temperature	25 ℃	Relative Humidity	55 %
Pressure	1009 hPa	Test Power	AC 120V/60Hz
Test Mode	TX CH01, CH 03, CH 05		

Channel of Worst Data: CH01				
	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)	
2377.60	-57.52	2484.00	-57.64	
Result				

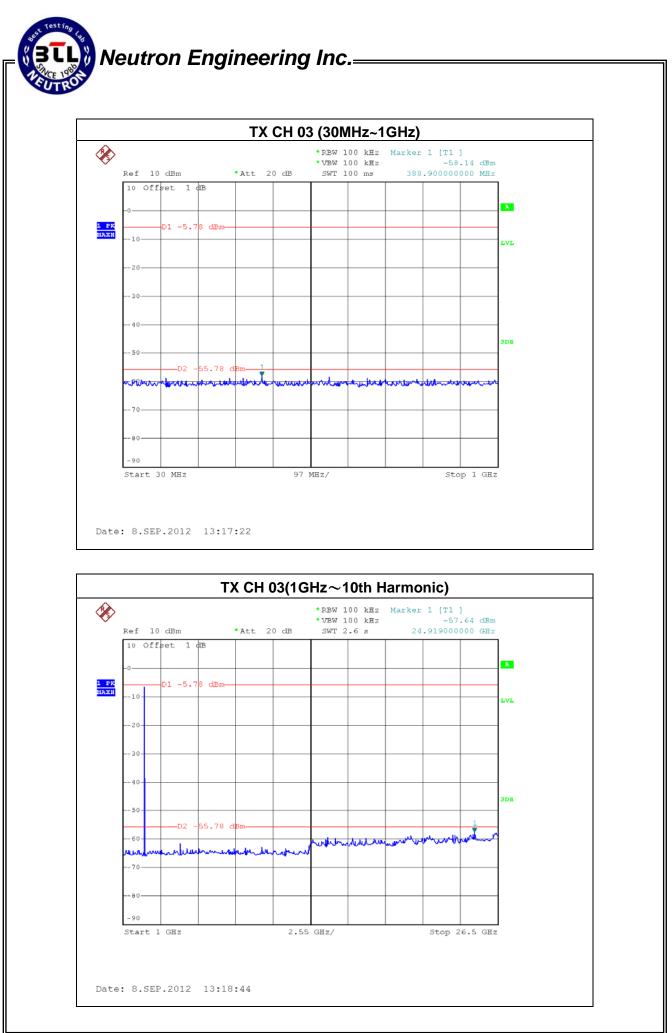
Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.



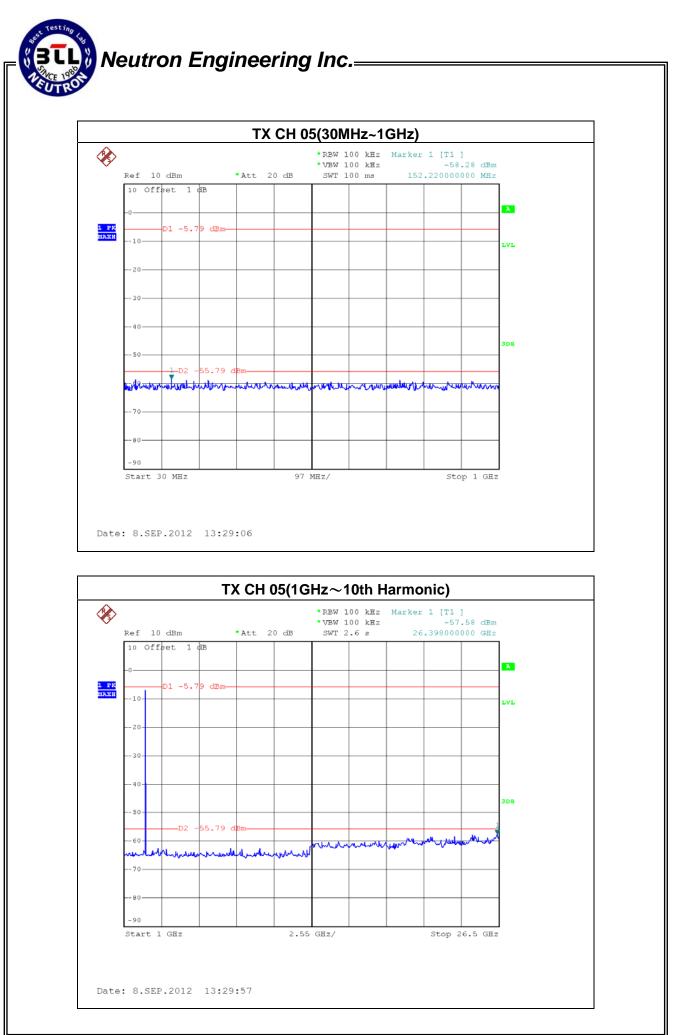
Report No.: NEI-FICP-1-1209C015



Report No.: NEI-FICP-1-1209C015

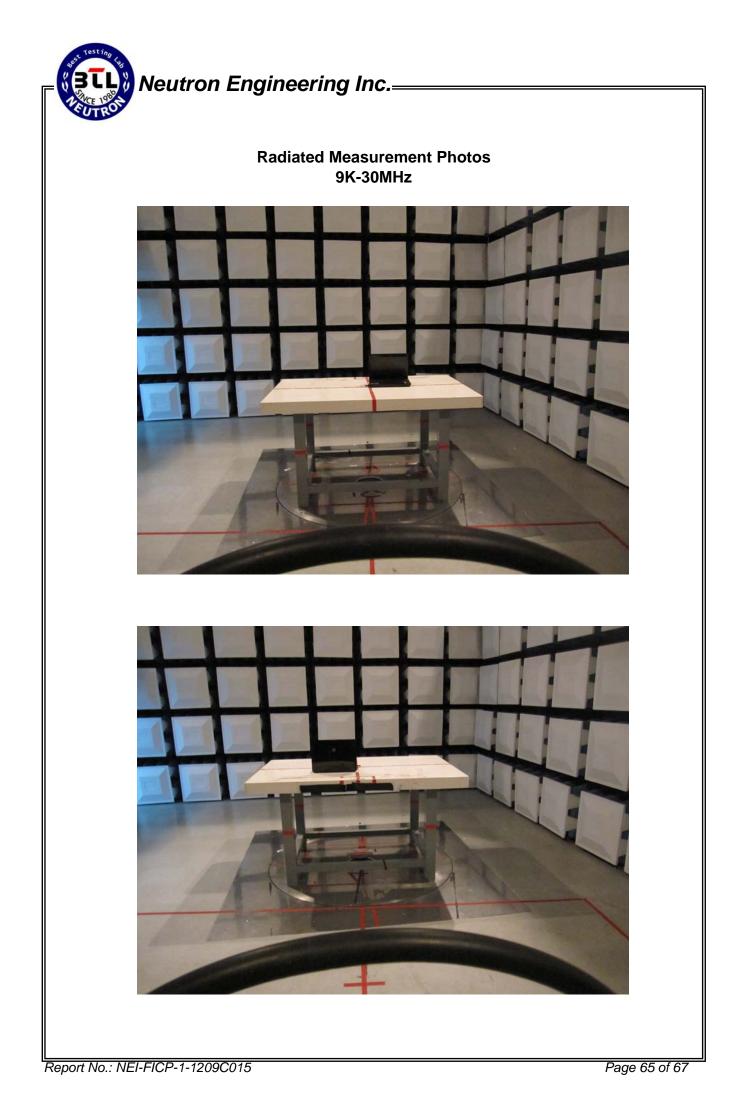


Report No.: NEI-FICP-1-1209C015



Report No.: NEI-FICP-1-1209C015

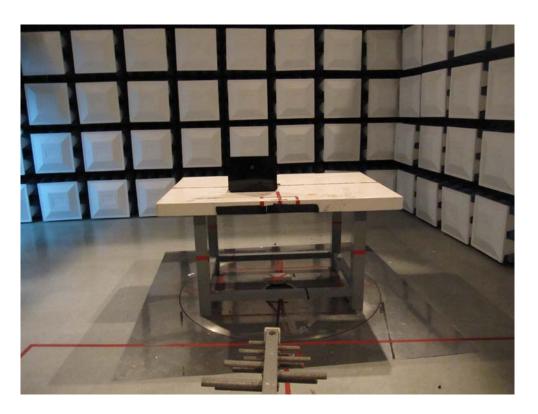






Radiated Measurement Photos 30M~1000MHz







Radiated Measurement Photos Above 1000MHz

