

Radio Test Report

FCC ID: UFOPX25

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

Issued Date : Oct. 07, 2008 **Project No.** : R0809001

Equipment: Wireless 2D Data Collector

Model Name: PX-25

Applicant : OPTOELECTRONICS CO., LTD Address : 4-12-17, Tsukagoshi, Warabi-Shi, Saitama-ken, 335-0002, Japan

Neutron Engineering Inc. EMC Laboratory

Data of Test:

Tested by:

Sep. 01, 2008 ~ Oct. 02, 2008

Testing Engineer

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Technical Manager

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Authorized Signatory

(, may prina)

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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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Report No.: NEI-FCCP-1-R0809001 Page 2 of 63



Table of Contents	Page
1. CERTIFICATION	6
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
3. GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	11
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	11
3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTE	D 12
3.5 DESCRIPTION OF SUPPORT UNITS	13
4 . EMC EMISSION TEST	14
4.1 RADIATED EMISSION MEASUREMENT	14
4.1.1 RADIATED EMISSION LIMITS	14
4.1.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING 4.1.3 TEST PROCEDURE	15 16
4.1.4 DEVIATION FROM TEST STANDARD	16
4.1.5 TEST SETUP	17
4.1.6 EUT OPERATING CONDITIONS	17
4.1.7 TEST RESULTS (BETWEEN30 – 1000 MHZ)	18
4.1.8 TEST RESULTS (ABOVE 1000 MHZ) 4.1.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)	20 32
5 . NUMBER OF HOPPING CHANNEL	36
5.1 APPLIED PROCEDURES / LIMIT	36
5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING	36
5.1.2 TEST PROCEDURE	36
5.1.3 DEVIATION FROM STANDARD	36
5.1.4 TEST SETUP	36
5.1.5 EUT OPERATION CONDITIONS 5.1.6 TEST RESULTS	36 37
6 . AVERAGE TIME OF OCCUPANCY	38
6.1 APPLIED PROCEDURES / LIMIT	38
6.1.1 MEASUREMENT INSTRUMENTS LIST	38
6.1.2 TEST PROCEDURE	38
6.1.3 DEVIATION FROM STANDARD	38
6.1.4 TEST SETUP	39

Report No.: NEI-FCCP-1-R0809001 Page 3 of 63



Table of Contents	Page
6.1.5 EUT OPERATION CONDITIONS	39
6.1.6 TEST RESULTS	40
7 . HOPPING CHANNEL SEPARATION MEASUREMENT	46
7.1 APPLIED PROCEDURES / LIMIT	46
7.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING	46
7.1.2 TEST PROCEDURE 7.1.3 DEVIATION FROM STANDARD	46 46
7.1.3 DEVIATION FROM STANDARD 7.1.4 TEST SETUP	46 46
7.1.5 EUT OPERATION CONDITIONS	46
7.1.6 TEST RESULTS	47
8 . BANDWITH TEST	49
8.1 APPLIED PROCEDURES / LIMIT	49
8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING	49
8.1.2 TEST PROCEDURE	49
8.1.3 DEVIATION FROM STANDARD	49
8.1.4 TEST SETUP	49
8.1.5 EUT OPERATION CONDITIONS 8.1.6 TEST RESULTS	49 50
9 . PEAK OUTPUT POWER TEST	50 52
9.1 APPLIED PROCEDURES / LIMIT 9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING	52 52
9.1.2 TEST PROCEDURE	52 52
9.1.3 DEVIATION FROM STANDARD	52 52
9.1.4 TEST SETUP	52
9.1.5 EUT OPERATION CONDITIONS	52
9.1.6 TEST RESULTS	53
10 . ANTENNA CONDUCTED SPURIOUS EMISSION	55
10.1 APPLIED PROCEDURES / LIMIT	55
10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING	55
10.1.2 TEST PROCEDURE	55
10.1.3 DEVIATION FROM STANDARD	55 50
10.1.4 TEST SETUP 10.1.5 EUT OPERATION CONDITIONS	56 56
10.1.6 TEST RESULTS	57
11 . RF EXPOSURE TEST	59
11.1 APPLIED PROCEDURES / LIMIT	59
11.1.1 MEASUREMENT INSTRUMENTS LIST	59
11.1.2 MPE CALCULATION METHOD	59
11.1.3 DEVIATION FROM STANDARD	60

Report No.: NEI-FCCP-1-R0809001



Table of Contents	Page
11.1.4 TEST SETUP	60
11.1.5 EUT OPERATION CONDITIONS	60
11.1.6 TEST RESULTS	61
12 . EUT TEST PHOTO	62

Report No.: NEI-FCCP-1-R0809001 Page 5 of 63



1. CERTIFICATION

Equipment: Wireless 2D Data Collector

Brand Name: OPTICON Model No.: PX-25

Applicant: OPTOELECTRONICS CO., LTD Data of Test: Sep. 01, 2008 ~ Oct. 02, 2008 Test Item: ENGINEERING SAMPLE

Standards: FCC Part15, Subpart C / 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-R0809001) 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).

Report No.: NEI-FCCP-1-R0809001 Page 6 of 63



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C				
Standard Section	Loct Itom			
15.207	Conducted Emission	PASS		
15.247 (c)	Antenna conducted Spurious Emission	PASS		
15.247 (a)(1)	Hopping Channel Separation	PASS		
15.247 (b)(1)	Peak Output Power	PASS		
15.247 (c)	Radiated Spurious Emission	PASS		
15.247 (b)(1)	Number of Hopping Frequency	PASS		
15.247 (a)(1)	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)This test report covers EUT radio function only. Its receive function testing is covered in another DOC test report: NEI-FCCE-1-R0809001.

Report No.: NEI-FCCP-1-R0809001 Page 7 of 63



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **OS01(FCC R.N.: 95335)** at the location of No.132-1, Lane 329, Sec. 2, Palain Road, Shijr City, Taipei, Taiwan.

2.2 MEASUREMENT UNCERTAINTY

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

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U,(dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
OS-01	ANSI	30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
		200MHz ~ 1,000MHz	V	3.86	
		200MHz ~ 1,000MHz	Η	3.94	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	Η	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	Н	2.66	

Report No.: NEI-FCCP-1-R0809001 Page 8 of 63



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless 2D Data Collector		
Brand Name	OPTICON		
Model Name	PX-25		
OEM Brand/Model Name	N/A		
Model Difference	N/A		
Product Description	The EUT is a Wireless 2D Data Collector. Operation Frequency: 2402~2480MHz. Modulation Type: FHSS Bit Rate of Transmitter 1Mbit/sec Number Of Channel 79 CH. Please see Note 2. Antenna Designation: Please see Note 3. Antenna Gain(Peak) Please see Note 3. Output Power: -2.77 dBm (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.		
Channel List	Please refer to the Note	2.	
Power Source	Battery supplied.		
Power Rating	DC 3.7V		
Connecting I/O Port(s)	Please refer to the User's Manual		
Products Covered	N/A		

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2. About the charge function (when charging the battery, the EUT must be turned off) testing is covered in another DOC test report: NEI-FCCE-1-R0809001.

Report No.: NEI-FCCP-1-R0809001 Page 9 of 63



2.

		Chann	el List		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

3. Table for Filed Antenna

_	~.~ .,	51 1 110 G 7 11 110 11 11 G				
	Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
		THE FURUKAWA				
	1	ELECTRIC CO.,	SF2450-01	Chip Antenna	On the Board	-8.06
		LTD.				

Report No.: NEI-FCCP-1-R0809001



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

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

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT is considered a portable unit; it was pre-tested on the positioned of each 3 axis. The worst case was found positioned on Y-pane. Therefore only the test data of this Y-plane was used for radiated emission measurement test.

 Test data of Charge mode was used for conduction emission measurement test.

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	XXX			
Frequency	2402 MHz	2441 MHz	2480 MHz	
Power Parameters	PMAX	PMAX	PMAX	

Report No.: NEI-FCCP-1-R0809001 Page 11 of 63

NEUTRON	Neutron Engineering Inc.
3.4 BLOCK DIGRAM SHOWING THE CONFIGU	
E- EU	

Report No.: NEI-FCCP-1-R0809001 Page 12 of 63



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.

Iter	n Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.	Note
E-	Wireless 2D Data Collector	OPTICON	PX-25	UFOPX25	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
	N/A	N/A	N/A	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length"</code> column.

Report No.: NEI-FCCP-1-R0809001 Page 13 of 63



4. EMC EMISSION TEST

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 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 on15.205(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)	Class A (dBu	ıV/m) (at 3m)	Class B (dBuV/m) (at 3m)		
	PEAK	AVERAGE	PEAK	AVERAGE	
Above 1000	80	60	74	54	

Notes:

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

Report No.: NEI-FCCP-1-R0809001 Page 14 of 63



4.1.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3176	Jul. 01, 2009
2	Test Cable	N/A	10M_OS01	N/A	Oct. 20, 2009
3	Test Cable	N/A	OS01-1/-2	N/A	Oct. 9, 2009
4	Pre-Amplifier	Anritsu	MH648A(OS01)	M09961	Oct. 9, 2009
5	Test Receiver	MEB	SMV41	130	May. 29, 2009
6	Test Cable	N/A	10M_OS02	N/A	Oct. 9, 2009
7	Test Cable	N/A	OS02	N/A	Oct. 9, 2009
8	Spectrum Analyzer	ADVAN TEST	R3132	81700025	Mar. 30. 2009
9	Spectrum Analyzer	R&S	FSP-40	100129	Sep. 9, 2009
10	Horn Antenna	EMCO	3115	9120D-325	Aug. 17, 2009
11	Microwave Pre_amplifier	Agilent	8449B	3008A01714	Apr. 23, 2009
12	Microflex Cable	NA	NA	1m	Sep. 15, 2009
13	Microflex Cable	United Microwave	A30A30-5006	10M	Feb. 20, 2009

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	1MHz / 1MHz for Dook, 1 MHz / 10Hz for Average
band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	100KHz / 100KHz for peak

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

Report No.: NEI-FCCP-1-R0809001 Page 15 of 63



4.1.3 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 open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.4 DEVIATION FROM TEST STANDARD

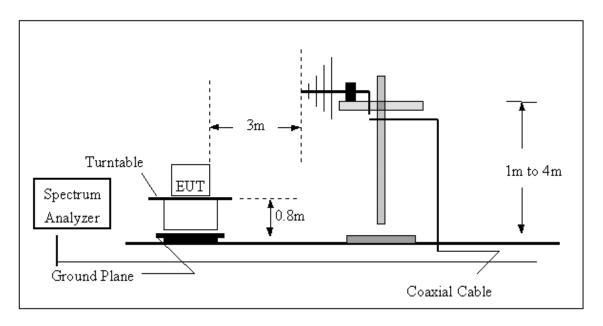
No deviation

Report No.: NEI-FCCP-1-R0809001 Page 16 of 63

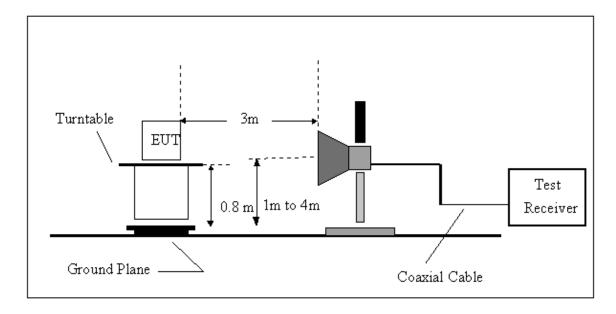


4.1.5 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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



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.

Report No.: NEI-FCCP-1-R0809001 Page 17 of 63



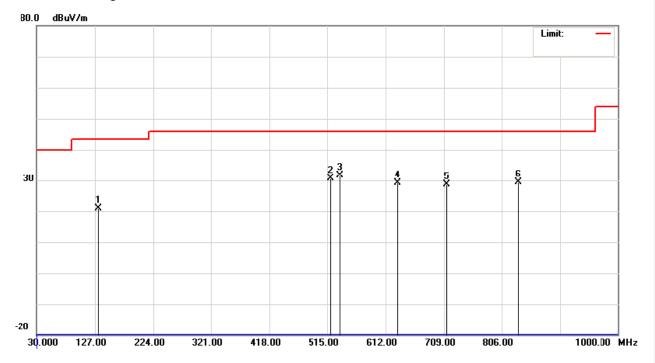
4.1.7 TEST RESULTS (BETWEEN30 - 1000 MHZ)

EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23 ℃	Relative Humidity:	53%
Pressure:	1017 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39	EUT Orthogonal Axis:	Υ

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Note
132.82	V	29.88	-8.99	20.89	43.50	- 22.61	
520.82	V	33.24	-2.58	30.66	46.00	- 15.34	
536.34	V	33.85	-2.24	31.61	46.00	- 14.39	
631.40	V	29.14	-0.01	29.13	46.00	- 16.87	
712.88	V	27.24	1.47	28.71	46.00	- 17.29	
833.16	V	28.66	0.66	29.32	46.00	- 16.68	

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ${}_{\circ}$
- (2) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (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 $\,^{\circ}$
- (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.



Report No.: NEI-FCCP-1-R0809001 Page 18 of 63

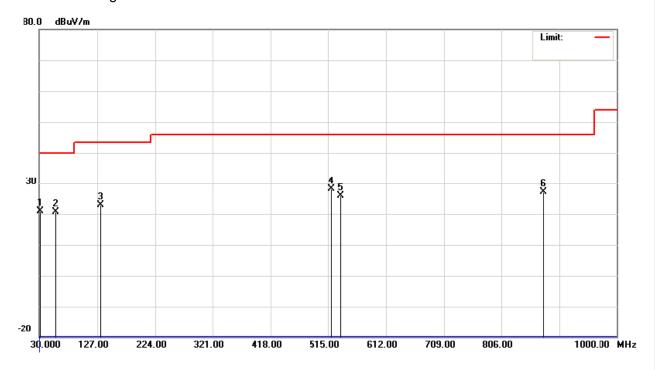


EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23 ℃	Relative Humidity:	53%
Pressure:	1017 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39	EUT Orthogonal Axis:	Υ

Freq.	Ant.	• , ,	Corr.Factor(CF)	` ′	, ,	Margin	Note
(MHz)	H/V	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
31.94	Н	30.77	-9.97	20.80	40.00	- 19.20	(QP)
57.16	Н	30.11	-9.54	20.57	40.00	- 19.43	(QP)
132.82	Н	31.75	-8.99	22.76	43.50	- 20.74	(QP)
520.82	Н	30.71	-2.58	28.13	46.00	- 17.87	(QP)
536.34	Н	28.07	-2.24	25.83	46.00	- 20.17	(QP)
875.84	Н	26.37	0.77	27.14	46.00	- 18.86	(QP)

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note $_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (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 $\,\circ\,$
- (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.



Report No.: NEI-FCCP-1-R0809001 Page 19 of 63



4.1.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT:	Wireless 2D Data Collector	Model Name :	PX-25
Temperature:	23 ℃	Relative Humidity:	53%
Pressure:	1009 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00	EUT Orthogonal Axis:	Υ

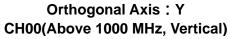
Freq.	Ant.Pol.	Reading		Ant./CF	A	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2389.80	V	22.04	11.70	32.24	54.28	43.94	74.00	54.00	Y/H	
2401.90	V	52.14	51.58	32.28	84.42	83.86			Y/F	
4803.88	V	42.74	30.96	3.39	46.13	34.35	74.00	54.00	Y/H	

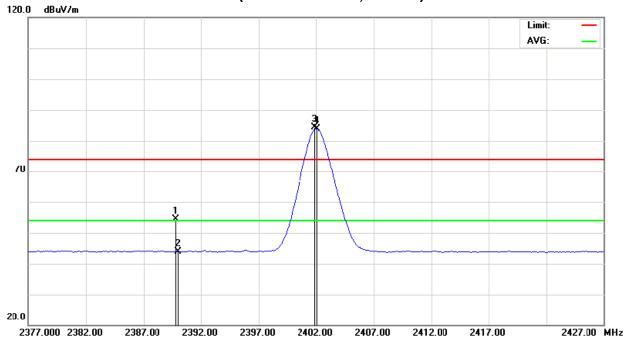
Remark:

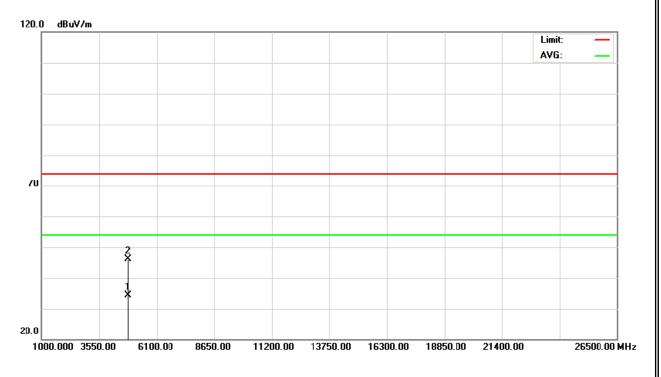
- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental 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 \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

Report No.: NEI-FCCP-1-R0809001 Page 20 of 63









Report No.: NEI-FCCP-1-R0809001 Page 21 of 63



EUT:	Wireless 2D Data Collector	Model Name :	PX-25
Temperature:	23 ℃	Relative Humidity:	53%
Pressure:	1009 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00	EUT Orthogonal Axis:	Υ

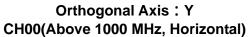
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Lir		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	22.09	11.94	32.24	54.33	44.18	74.00	54.00	Y/H
2401.90	Н	54.80	54.31	32.28	87.08	86.59			Y/F
4803.72	Н	41.28	30.70	3.38	44.66	34.08	74.00	54.00	Y/H

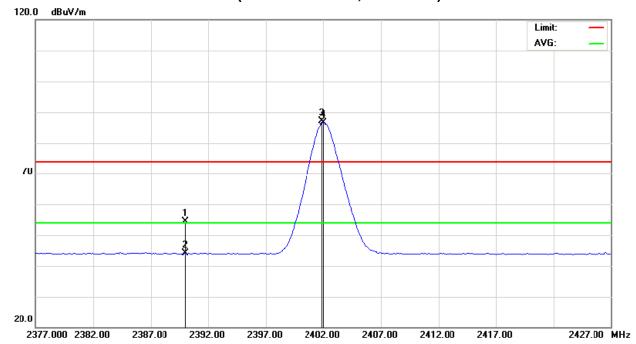
Remark:

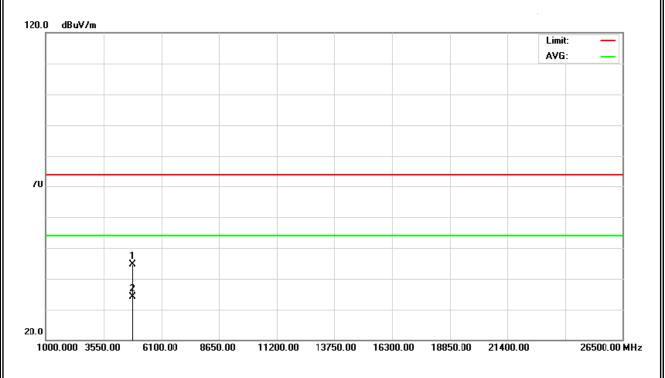
- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ∘
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes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

Report No.: NEI-FCCP-1-R0809001 Page 22 of 63









Report No.: NEI-FCCP-1-R0809001 Page 23 of 63



EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23 ℃	Relative Humidity:	53%
Pressure:	1009 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39	EUT Orthogonal Axis:	Υ

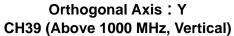
Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Liı		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.00	V	49.79	49.71	32.43	82.22	82.14			Y/F
4881.76	V	42.35	30.92	3.70	46.05	34.62	74.00	54.00	Y/H

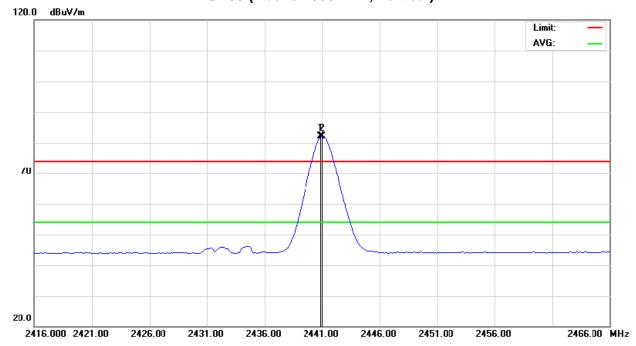
Remark:

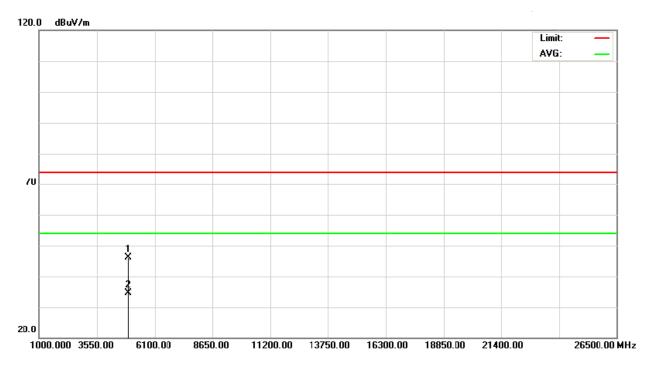
- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental 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 o
- (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

Report No.: NEI-FCCP-1-R0809001 Page 24 of 63









Report No.: NEI-FCCP-1-R0809001 Page 25 of 63



EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23 ℃	Relative Humidity:	53%
Pressure:	1009 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39	EUT Orthogonal Axis:	Υ

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Liı		
		Peak	AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.90	Н	53.45	53.22	32.43	85.88	85.65			Y/F
4881.60	Н	42.06	30.53	3.70	45.76	34.23	74.00	54.00	Y/H

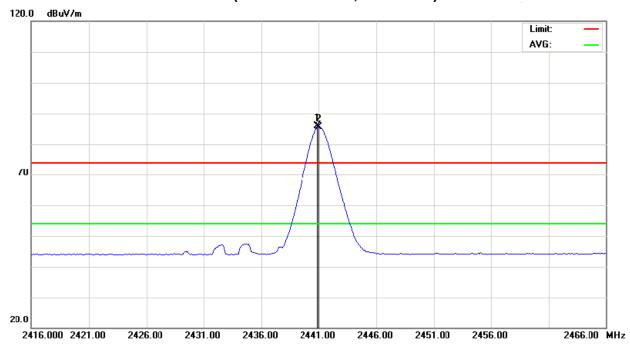
Remark:

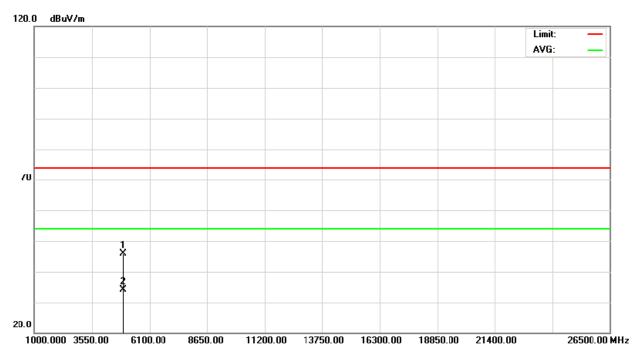
- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ∘
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes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

Report No.: NEI-FCCP-1-R0809001 Page 26 of 63









Report No.: NEI-FCCP-1-R0809001 Page 27 of 63



EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23 ℃	Relative Humidity:	53%
Pressure:	1009 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH78	EUT Orthogonal Axis:	Υ

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)	
2479.80	V	49.67	49.57	32.57	82.24	82.14			Y/F
2483.70	V	22.55	13.12	32.59	55.14	45.71	74.00	54.00	Y/H
4960.16	V	41.49	29.37	4.01	45.50	33.38	74.00	54.00	Y/H

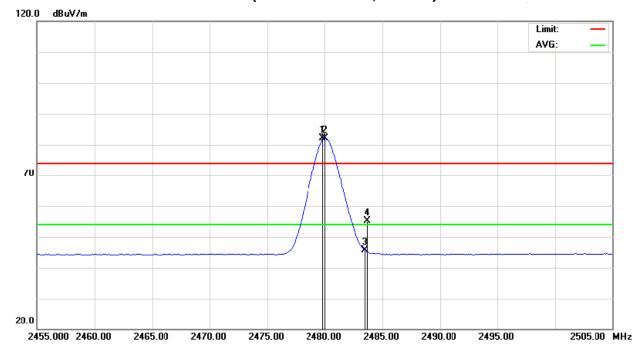
Remark:

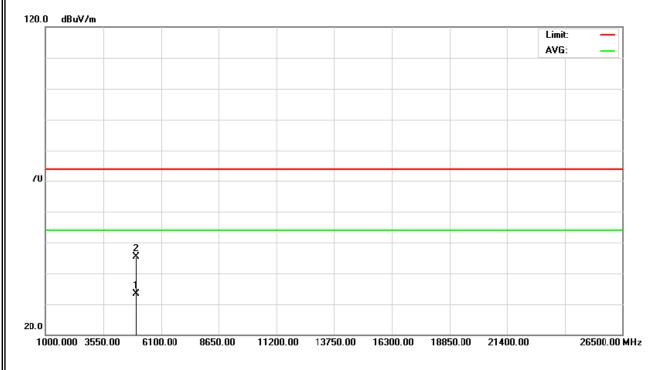
- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ∘
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes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

Report No.: NEI-FCCP-1-R0809001 Page 28 of 63









Report No.: NEI-FCCP-1-R0809001 Page 29 of 63



EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23 ℃	Relative Humidity:	53%
Pressure:	1009 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH78	EUT Orthogonal Axis:	Υ

Freq.	Ant.Pol.	Reading		Ant./CF	Α	Act.		Limit		
		Peak	AV		Peak	AV	Peak	AV	Note	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)		
2479.80	Н	54.58	54.12	32.57	87.15	86.69			Y/F	
2483.50	Н	22.33	15.00	32.59	54.92	47.59	74.00	54.00	Y/H	
4960.16	Н	40.79	28.74	4.01	44.80	32.75	74.00	54.00	Y/H	

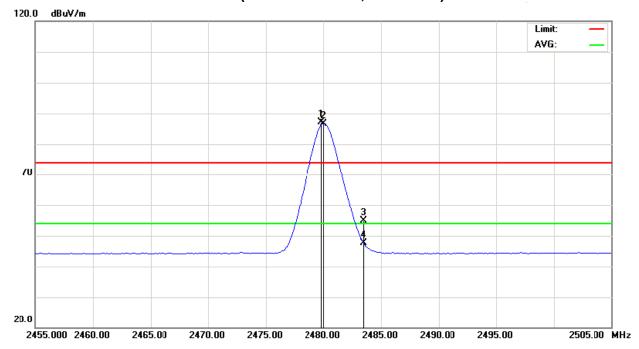
Remark:

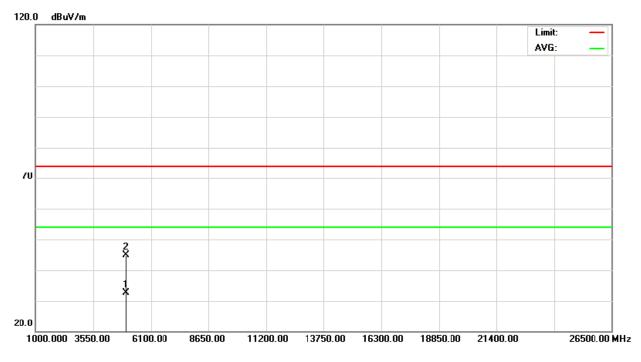
- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental 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 $\,^{\circ}$
- (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

Report No.: NEI-FCCP-1-R0809001 Page 30 of 63









Report No.: NEI-FCCP-1-R0809001 Page 31 of 63



4.1.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT:	Wireless 2D Data Collector	Model No. :	PX-25		
Temperature:	23 ℃	Relative Humidity:	53%		
Pressure:	1009 hPa	Test Voltage :	DC 3.7V		
Test Mode :	Vertical				
	 The transmitter was setup to transmit at the lowest channel (CH00). Then the field strength was measured at 2310-2390 MHz. The transmitter was setup to transmit at the highest channel (CH78). Then the field strength was measured at 2483.5-2500 MHz. 				

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)	
2389.80	V	22.04	11.70	32.24	54.28	43.94	74.00	54.00	CH00
2483.70	V	22.55	13.12	32.59	55.14	45.71	74.00	54.00	CH78

Remark:

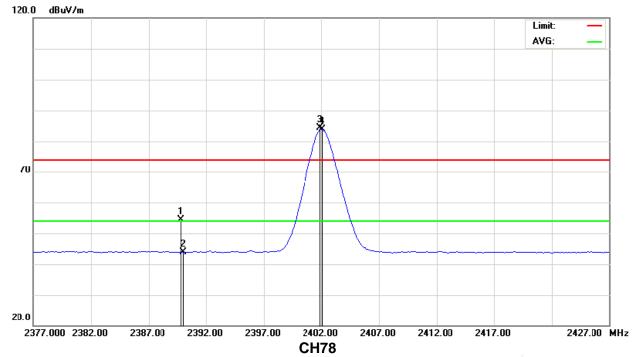
- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (2) EUT Orthogonal Axis:

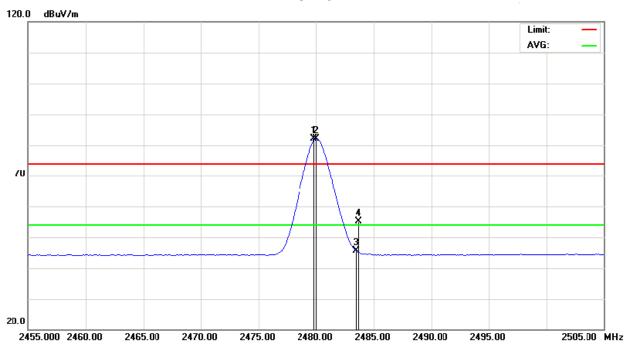
"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

Report No.: NEI-FCCP-1-R0809001 Page 32 of 63









Report No.: NEI-FCCP-1-R0809001 Page 33 of 63



EUT:	Wireless 2D Data Collector	Model No. :	PX-25		
Temperature:	23 ℃	Relative Humidity:	53%		
Pressure:	1009 hPa	Test Voltage :	DC 3.7V		
Test Mode :	Horizontal				
	 The transmitter was setup to transmit at the lowest channel (CH00). Then the field strength was measured at 2310-2390 MHz. The transmitter was setup to transmit at the highest channel (CH78). Then the field strength was measured at 2483.5-2500 MHz. 				

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)	
2390.00	Н	22.09	11.94	32.24	54.33	44.18	74.00	54.00	CH00
2483.50	Н	22.33	15.00	32.59	54.92	47.59	74.00	54.00	CH78

Remark:

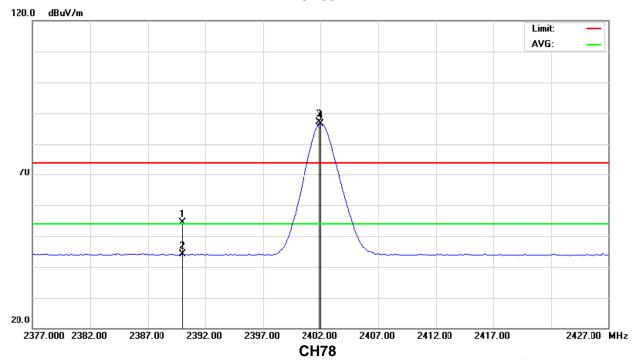
- (1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (2) EUT Orthogonal Axis:

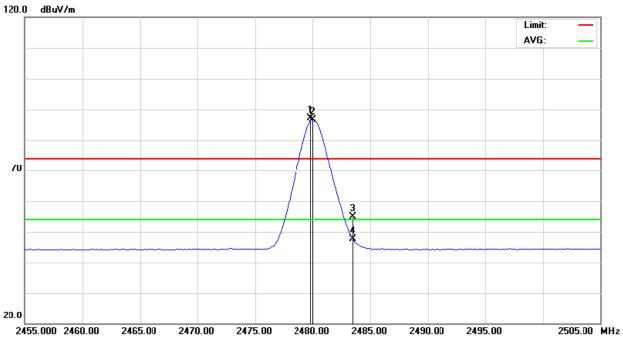
"X" - denotes Laid on Table; "Y" - denotes Vertical Stand; "Z" - denotes Side Stand

Report No.: NEI-FCCP-1-R0809001 Page 34 of 63



Restricted Bands Requirements, Horizontal CH00





Report No.: NEI-FCCP-1-R0809001 Page 35 of 63



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)(ii)	Number of Hopping Channel	2400-2483.5	PASS		

5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Sep. 9, 2009

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



5.1.5 EUT OPERATION CONDITIONS

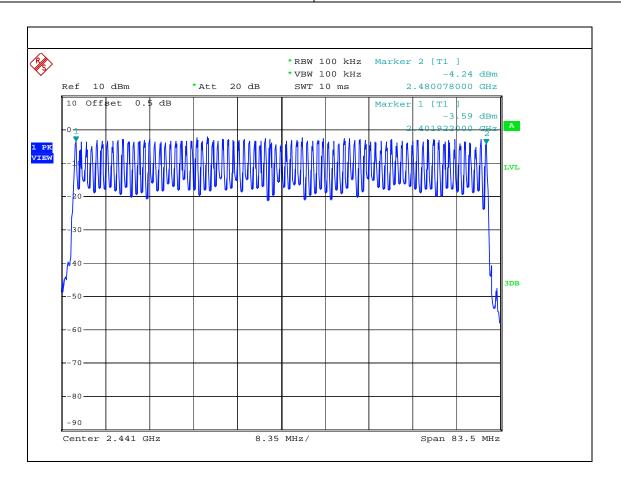
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FCCP-1-R0809001 Page 36 of 63



EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23.5 ℃	Relative Humidity:	75 %
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	Hopping Mode		

Number of Hopping Channel	79
raniber of Hopping Chariner	7.5



Report No.: NEI-FCCP-1-R0809001 Page 37 of 63



6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

	FCC Part15 (15.247) , Subpart C					
Section	ction Test Item Limit Frequency Range (MHz) Result					
15.247 (a)(1)(ii)	Average Time of Occupancy	< = 0.4 sec (a 30 second period)	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	100129	Sep. 9, 2009

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

6.1.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser
- b. Set RBW of spectrum analyzer to 100kHz and VBW to 100kHz.
- C. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f. Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h. Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum 1600/ 79 / 6 = 3.37 hops per second in each channel (5 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times 3.37 x 31.6 = 106.6 within 31.6 seconds.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times 5.06 x 31.6 = 160 within 31.6 seconds.
- k. DH1 Packet permit maximum 1600 / 79 /2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times 10.12 x 31.6 = 320 within 31.6 seconds.

6.1.3 DEVIATION FROM STANDARD

No deviation.

Report No.: NEI-FCCP-1-R0809001 Page 38 of 63



6.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

6.1.5 EUT OPERATION CONDITIONS

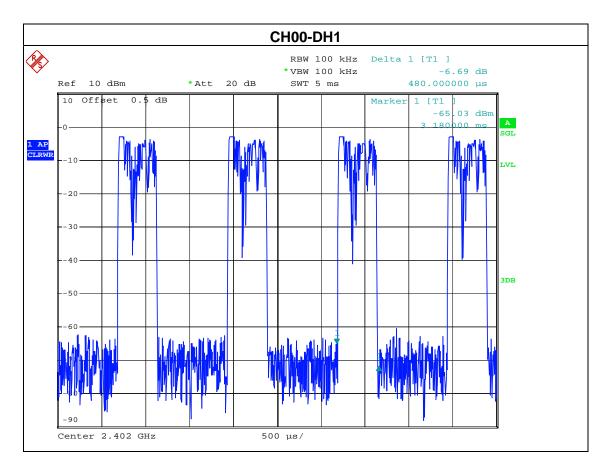
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FCCP-1-R0809001 Page 39 of 63



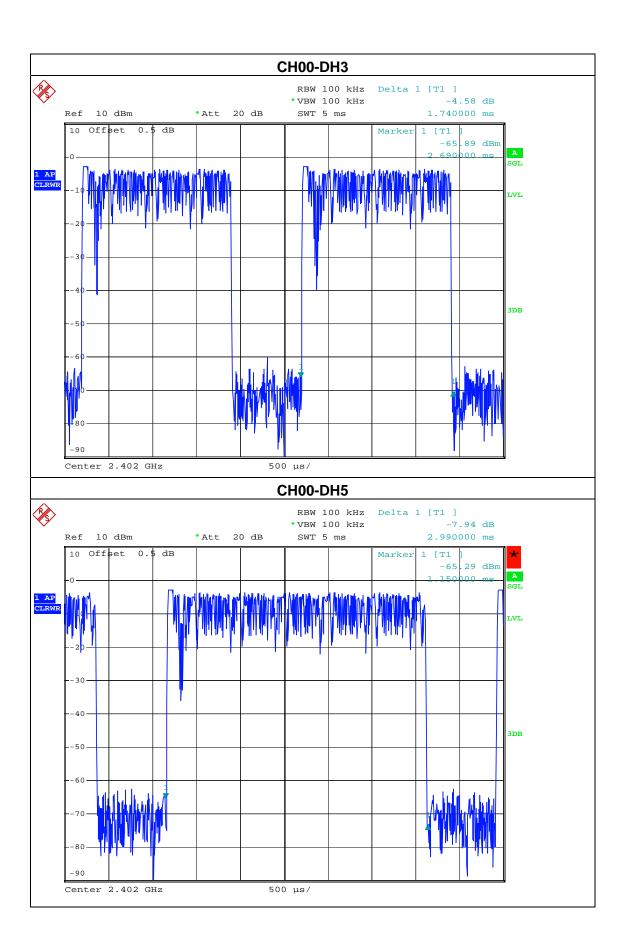
EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23.5 ℃	Relative Humidity:	75 %
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00-DH1/DH3/DH5		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2402 MHz	0.4800	0.1536	0.4000
DH3	2402 MHz	1.7400	0.2784	0.4000
DH5	2402 MHz	2.9900	0.3189	0.4000



Report No.: NEI-FCCP-1-R0809001 Page 40 of 63



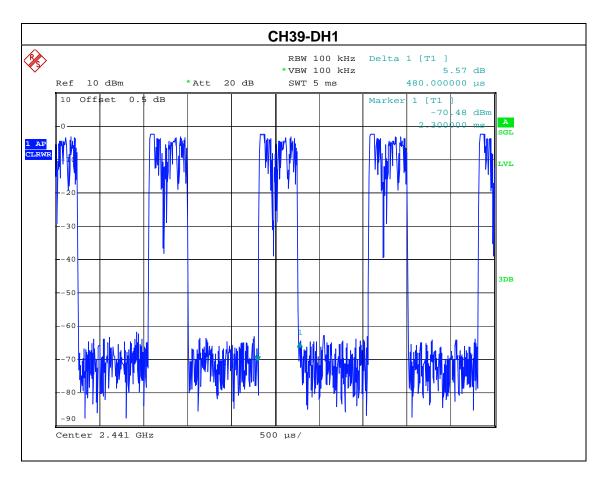


Report No.: NEI-FCCP-1-R0809001 Page 41 of 63



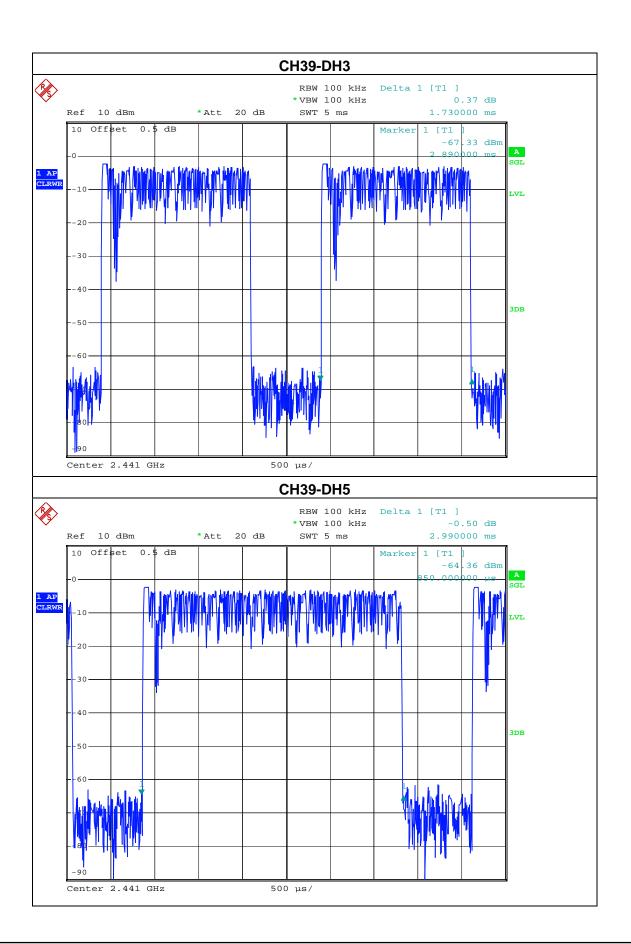
EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23.5 ℃	Relative Humidity:	75 %
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39 -DH1/DH3/DH5		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2441 MHz	0.4800	0.1536	0.4000
DH3	2441 MHz	1.7300	0.2768	0.4000
DH5	2441 MHz	2.9900	0.3189	0.4000



Report No.: NEI-FCCP-1-R0809001 Page 42 of 63



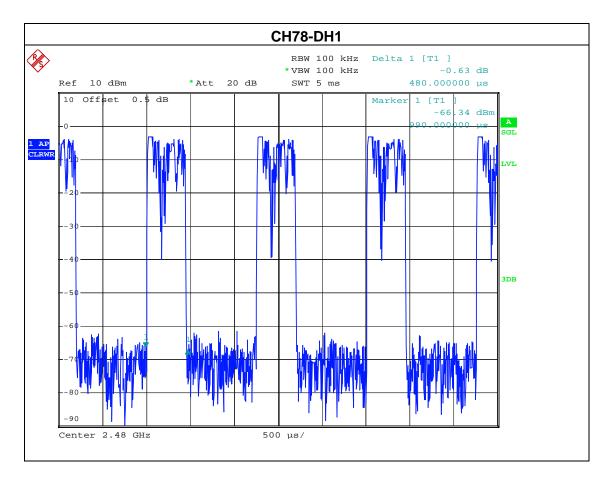


Report No.: NEI-FCCP-1-R0809001 Page 43 of 63



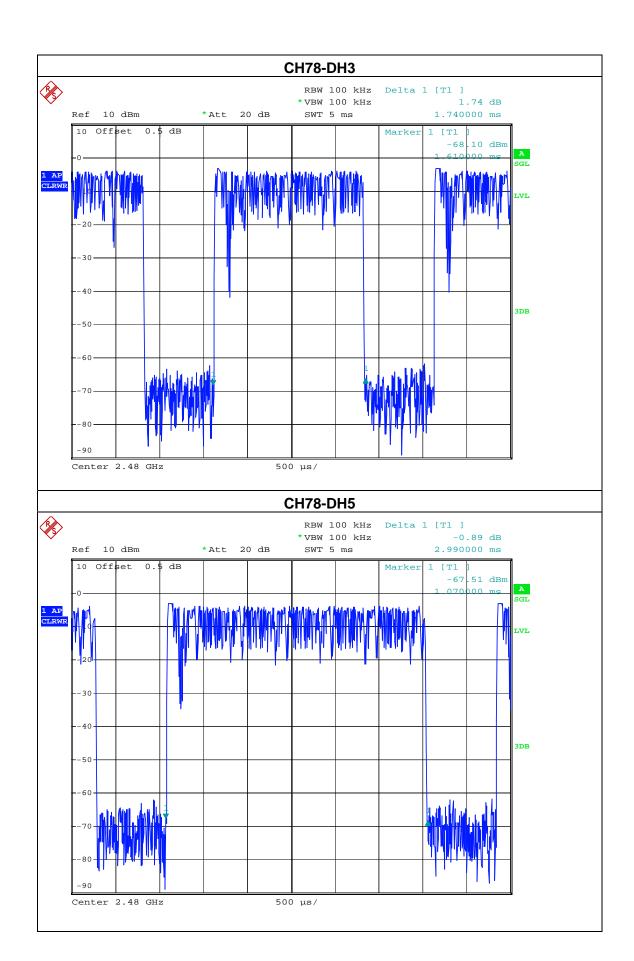
EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23.5 ℃	Relative Humidity:	75 %
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH78 -DH1/DH3/DH5		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2480 MHz	0.4800	0.1536	0.4000
DH3	2480 MHz	1.7400	0.2784	0.4000
DH5	2480 MHz	2.9900	0.3189	0.4000



Report No.: NEI-FCCP-1-R0809001 Page 44 of 63





Report No.: NEI-FCCP-1-R0809001 Page 45 of 63



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

Ite	m Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Sep. 9, 2009

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) / 100 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 300 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 100 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 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.

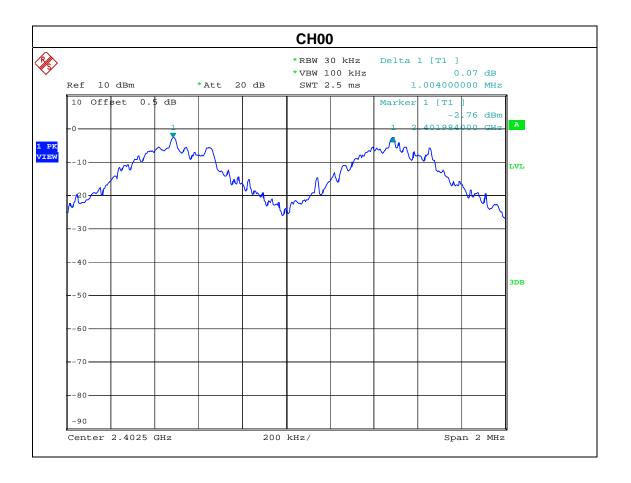
Report No.: NEI-FCCP-1-R0809001 Page 46 of 63



EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23.5 ℃	Relative Humidity:	75 %
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 / CH78		

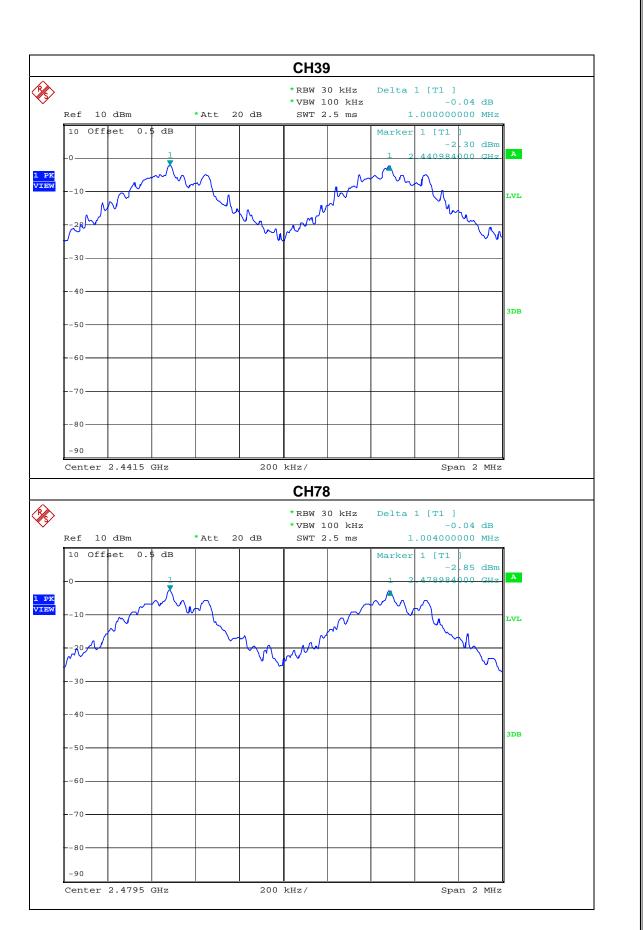
Frequency	Ch. Separation (MHz)	20dB Bandwidth (kHz)	Result
2402 MHz	1	944.00	Complies
2441 MHz	1	944.00	Complies
2480 MHz	1	940.00	Complies

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



Report No.: NEI-FCCP-1-R0809001 Page 47 of 63





Report No.: NEI-FCCP-1-R0809001 Page 48 of 63



8. BANDWITH 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	<= 1 MHz (20dB bandwidth)	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	100129	Sep. 9, 2009

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) / 100 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 300 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= 100KHz, VBW=100KHz, Sweep time = Auto.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP



8.1.5 EUT OPERATION CONDITIONS

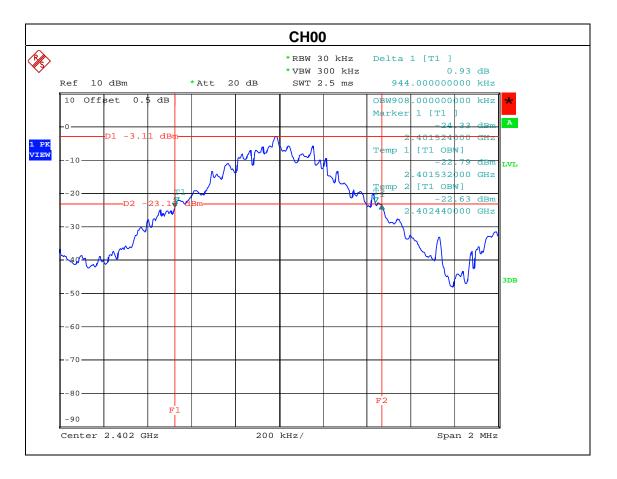
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FCCP-1-R0809001 Page 49 of 63



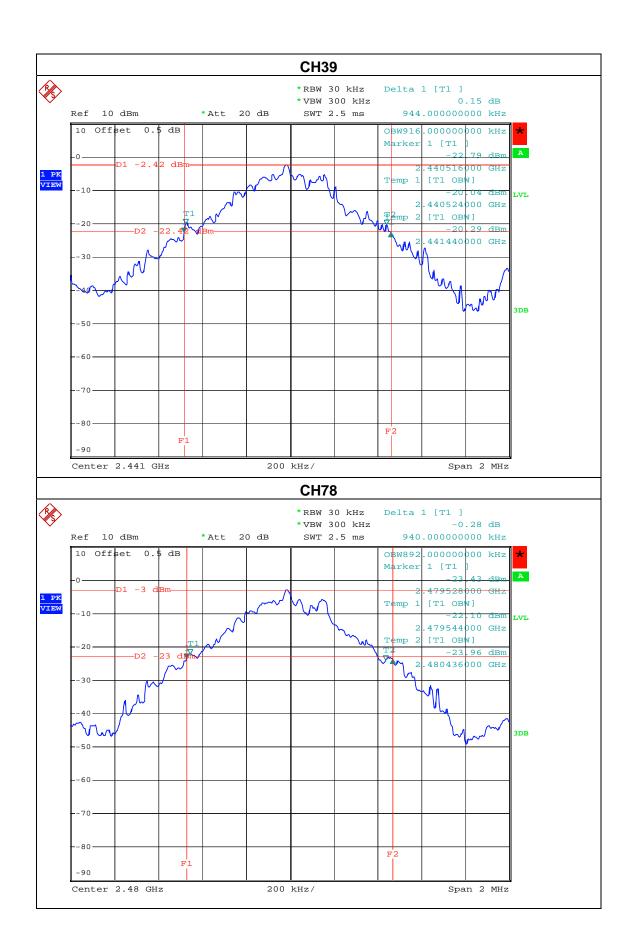
EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23.5 ℃	Relative Humidity:	75 %
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 / CH78		

Frequency	20dB Bandwidth (kHz)	Channel Separation (MHz)	Result
2402 MHz	944.00	<= 1MHz	PASS
2441 MHz	944.00	<= 1MHz	PASS
2480 MHz	940.00	<= 1MHz	PASS



Report No.: NEI-FCCP-1-R0809001 Page 50 of 63





Report No.: NEI-FCCP-1-R0809001 Page 51 of 63



9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	ection Test Item Limit Frequency Range (MHz) Result				
15.247 (b)(1)	Peak Output Power	1 watt or 30dBm	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	100129	Sep. 9, 2009

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

EUT	SPECTRUM
	ANALYZER

9.1.5 EUT OPERATION CONDITIONS

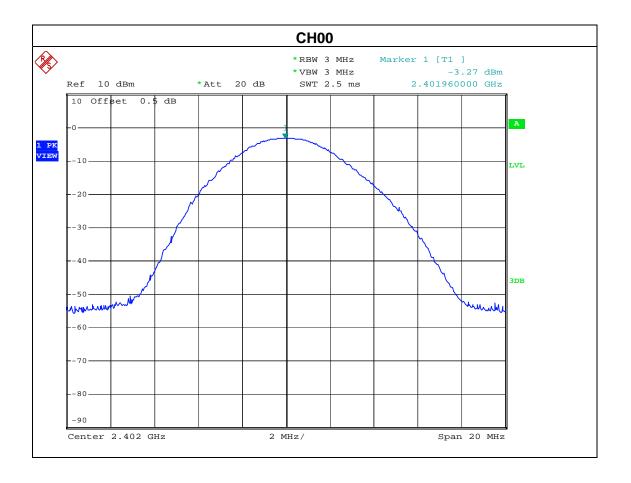
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FCCP-1-R0809001 Page 52 of 63



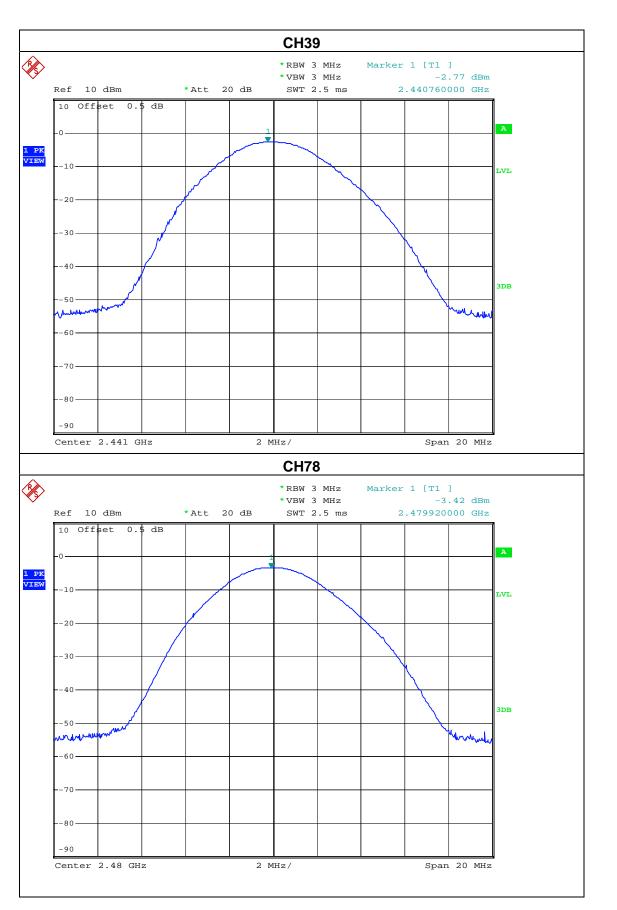
EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23.5 ℃	Relative Humidity:	75 %
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 / CH78		

Test Channel	Frequency	Peak Output Power	LIMIT	LIMIT
	(MHz)	(dBm)	(dBm)	(W)
CH00	2402	-3.27	30	1
CH39	2441	-2.77	30	1
CH78	2480	-3.42	30	1



Report No.: NEI-FCCP-1-R0809001 Page 53 of 63





Report No.: NEI-FCCP-1-R0809001 Page 54 of 63



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	100129	Sep. 9, 2009

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

The following table is the setting of the spectrum analyzer.

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

10.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = Auto.

10.1.3 DEVIATION FROM STANDARD

No deviation.

Report No.: NEI-FCCP-1-R0809001 Page 55 of 63



10.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

10.1.5 EUT OPERATION CONDITIONS

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

Report No.: NEI-FCCP-1-R0809001 Page 56 of 63



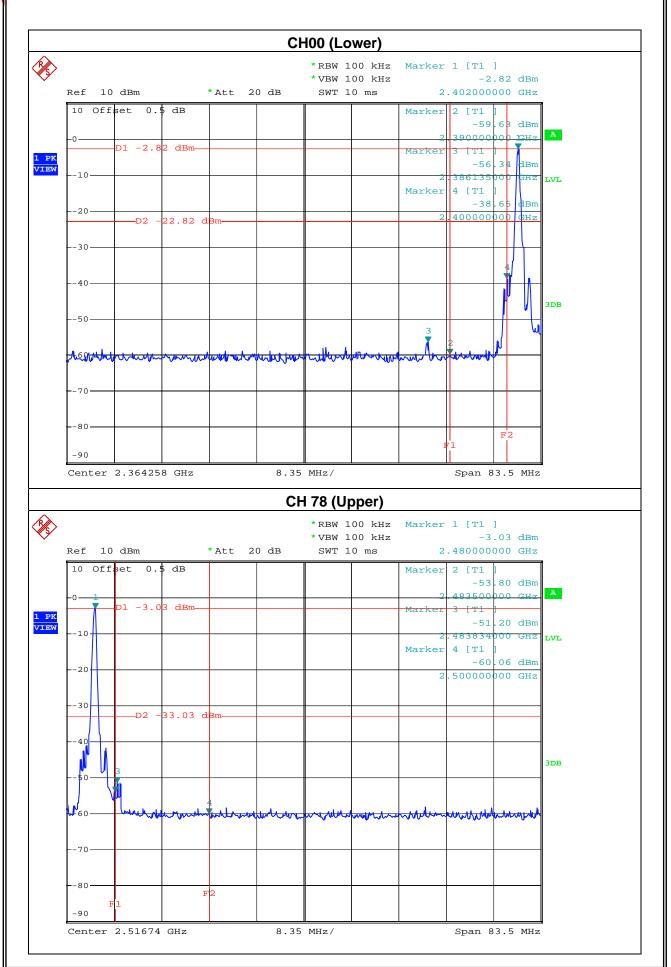
EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23.5 ℃	Relative Humidity:	75 %
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 / CH78		

The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequence bandwidth within the		
FREQUENCY(MHz) POWER(dBm)		FREQUENCY(MHz)	POWER(dBm)	
2386.135	-56.34	2483.834	-51.20	
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.

Report No.: NEI-FCCP-1-R0809001 Page 57 of 63





Report No.: NEI-FCCP-1-R0809001 Page 58 of 63



11. RF EXPOSURE TEST

11.1 APPLIED PROCEDURES / LIMIT

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz; *Plane-wave equivalent power density

11.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100129	Sep. 9, 2009

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

11.1.2 MPE CALCULATION METHOD

E (V/m) =
$$\frac{\sqrt{30 \times P \times G}}{d}$$
 Power Density: Pd (W/m²) = $\frac{E^2}{377}$

 $\mathbf{E} = \text{Electric field (V/m)}$

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

Report No.: NEI-FCCP-1-R0809001 Page 59 of 63



11.1.3 DEVIATION FROM STANDARD

No deviation.

11.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

11.1.5 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.

Report No.: NEI-FCCP-1-R0809001 Page 60 of 63



EUT:	Wireless 2D Data Collector	Model No. :	PX-25
Temperature:	23.5 ℃	Relative Humidity:	75 %
Pressure:	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 (2402MHz), CH39(2441MHz), CH78 (2480MHz)		

F	requency	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
2	2402 MHz	-8.06	0.1563	-3.2700	0.4710	0.000015	1	Complies
2	2441 MHz	-8.06	0.1563	-2.7700	0.5284	0.000016	1	Complies
2	2480 MHz	-8.06	0.1563	-3.4200	0.4550	0.000014	1	Complies

Report No.: NEI-FCCP-1-R0809001 Page 61 of 63