



# Radio Test Report

## FCC ID: WNUWNAS

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

**Issued Date** : Jan. 13, 2009

**Project No.** : R0810002

**Equipment** : Giga NAS Landisk

**Model Name** : PX-WNAS500L; PX-WNAS750L;  
PX-WNAS1000L

**Applicant** : Shinano Kenshi CO. Ltd

**Address** : 6-15-26, Chuo, Ueda-Shi, Nagano-Ken  
386-0012, Japan

**Tested by:**

Neutron Engineering Inc. EMC Laboratory

**Date of Test:**

Dec. 15, 2008 ~ Dec. 29, 2008

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## Declaration

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## Limitation

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## **1. CERTIFICATION**

Equipment: Giga NAS Landisk

Brand Name: Plextor Storx

Model No.: PX-WNAS500L; PX-WNAS750L; PX-WNAS1000L

Applicant: Shinano Kenshi CO. Ltd

Date of Test: Dec. 15, 2008 ~ Dec. 29, 2008

Standards: FCC Part15, Subpart C / ANCI 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-R0810002) 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:

<b>FCC Part15, Subpart C</b>			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (c)	Antenna conducted Spurious Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Power Spectral Density	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-R0810002.



## 2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **C01/OS01 (FCC R.N.: 95335)** at the location of No.132-1, Lane 329, Sec. 2, Palian Road, Shijr City, Taipei, Taiwan.

## 2.2 MEASUREMENT UNCERTAINTY

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
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	2.86	
		30MHz ~ 200MHz	H	2.56	
		200MHz ~ 1,000MHz	V	2.88	
		200MHz ~ 1,000MHz	H	2.98	
OS-02	ANSI	30MHz ~ 200MHz	V	2.48	
		30MHz ~ 200MHz	H	2.16	
		200MHz ~ 1,000MHz	V	2.50	
		200MHz ~ 1,000MHz	H	2.66	



### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT

Equipment	Giga NAS Landisk																				
Brand Name	Plextor Storx																				
Model Name	PX-WNAS500L; PX-WNAS750L; PX-WNAS1000L																				
OEM Brand/Model No.	N/A																				
Model Difference	Please see Note 3.																				
Product Description	<p>The EUT is an Giga NAS Landisk.</p> <table border="1"><tr><td>Operation Frequency:</td><td>2412~2462MHz</td></tr><tr><td>Modulation Type:</td><td>802.11b:CCK, DQPSK, DBPSK 802.11g:OFDM 802.11n:OFDM( 1 TX &amp; 2 RX )</td></tr><tr><td>Bit Rate of Transmitter:</td><td>802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to +150 Mbps</td></tr><tr><td>Number Of Channel:</td><td>11CH .Please see Note 4.</td></tr><tr><td>Antenna Designation:</td><td>Please see Note 5.</td></tr><tr><td>Antenna Gain(Peak):</td><td>Please see Note 5.</td></tr><tr><td>Output Power(Max):</td><td>802.11b: 18.41dBm (PK Max.) 802.11g: 26.60dBm (PK Max.) 802.11n(20MHz): 26.62dBm(PK Max.) 802.11n(40MHz): 24.70dBm(PK Max.)</td></tr><tr><td></td><td>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.</td></tr><tr><td>Channel List</td><td>Please refer to the Note 4.</td></tr><tr><td>Power Source</td><td>DC Voltage supplied from AC/DC adapter.</td></tr></table>	Operation Frequency:	2412~2462MHz	Modulation Type:	802.11b:CCK, DQPSK, DBPSK 802.11g:OFDM 802.11n:OFDM( 1 TX & 2 RX )	Bit Rate of Transmitter:	802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps 802.11n up to +150 Mbps	Number Of Channel:	11CH .Please see Note 4.	Antenna Designation:	Please see Note 5.	Antenna Gain(Peak):	Please see Note 5.	Output Power(Max):	802.11b: 18.41dBm (PK Max.) 802.11g: 26.60dBm (PK Max.) 802.11n(20MHz): 26.62dBm(PK Max.) 802.11n(40MHz): 24.70dBm(PK 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 4.	Power Source	DC Voltage supplied from AC/DC adapter.
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Antenna Gain(Peak):	Please see Note 5.																				
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Channel List	Please refer to the Note 4.																				
Power Source	DC Voltage supplied from AC/DC adapter.																				
Power Rating	I/P: AC 100-240V~1.5A, 50-60Hz / O/P: DC 12V, 3.0A, Max. 42W																				
Connecting I/O Port(s)	Please refer to the User's Manual																				
Products Covered	Adapter: AD4212G																				



Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. The EUT is a 1 (TX) x 2 (RX) MISO device.
3. There are three models based on similar electrical circuit except the difference of list below:

Model No.:	HDD Capacity
PX-WNAS500L	500GB
PX-WNAS750L	750GB
PX-WNAS1000L	1000GB

All the above models were tested, and the model: PX-WNAS500L was found to be the worst case during the pr-scanning test. This model of the worst case was used for final testing and collecting test data included in this report.

4. CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz)  
CH 03 – CH 09 for 802.11n(40MHz)

Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	<b>2412</b>	05	2432	09	<b>2452</b>
02	2417	<b>06</b>	<b>2437</b>	10	2457
<b>03</b>	<b>2422</b>	07	2442	<b>11</b>	<b>2462</b>
04	2427	08	2447		

5. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	EZLAN	EZA-2405d-O02	Dipole Antenna	RP-SMA plug	5



### 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	802.11b/CH01, CH06, CH11
Mode 2	802.11g/CH01, CH06, CH11
Mode 3	802.11n/20M/CH01, CH06, CH11
Mode 4	802.11n/40M/CH03, CH06, CH09

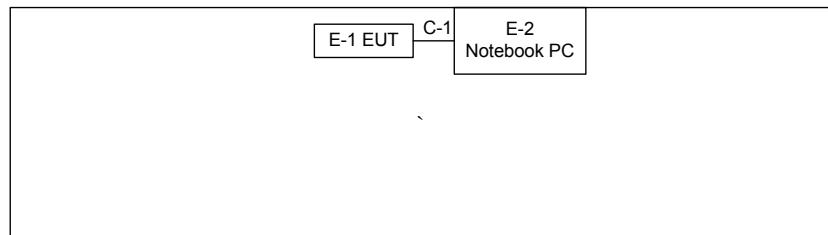
<b>For Conducted Test</b>	
Final Test Mode	Description
Mode 1	802.11b/CH06

<b>For Radiated Test (30 – 1000 MHz)</b>	
Final Test Mode	Description
Mode 1	802.11b/CH06

<b>For Radiated Test (Above 1000 MHz)</b>	
Final Test Mode	Description
Mode 1	802.11b/CH01, CH06, CH11
Mode 2	802.11g/CH01, CH06, CH11
Mode 3	802.11n/20M/CH01, CH06, CH11
Mode 4	802.11n/40M/CH03, CH06, CH09



**3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED**



C-1 RF Control Cable



### 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	Series No.	Note
E-1	Giga NAS Landisk	Plextor Storx	PX-WNAS500L	WNUWNAS	N/A	EUT
E-2	Notebook PC	DELL	D600	DOC	7T390 A03	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	YES	NO	1.8M	

Note:

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



## 4. EMC EMISSION TEST

### 4.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *
0.50 -5.0	73.00	60.00	56.00	46.00
5.0 -30.0	73.00	60.00	60.00	50.00

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	Test Cable	N/A	C01	N/A	Oct. 08, 2009
2	LISN (SR03)	EMCO	3816/2	00042991	Jan. 29, 2009
3	Pulse Limiter	Electro-Metrics	EM-7600	112647	Dec. 15, 2009
4	50Ω Terminator	N/A	N/A	N/A	May 13, 2009
5	EMI Test Receiver	R&S	ESCI	100082	Mar. 23, 2009
6	LISN	EMCO	4825/2	00028234	Jul. 09, 2009

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



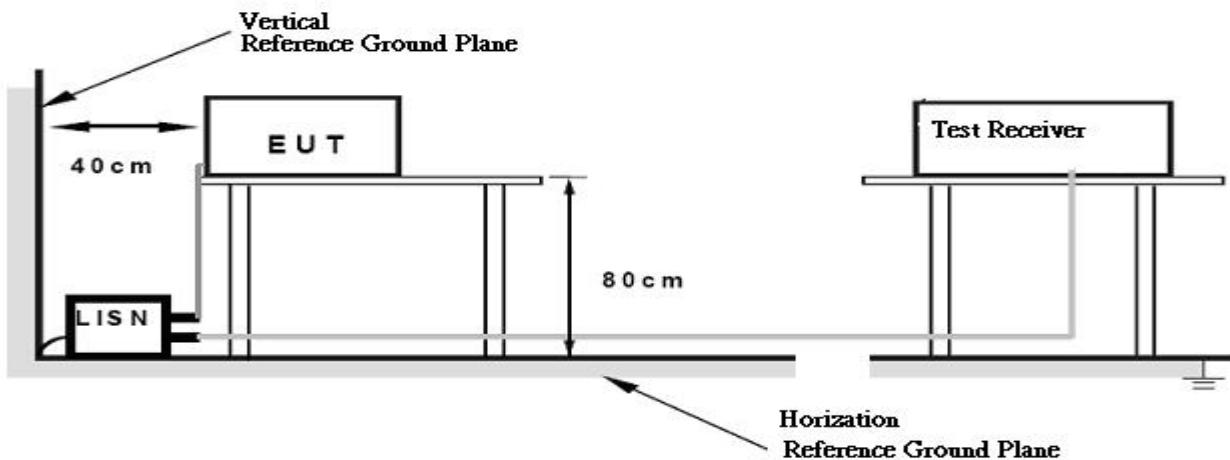
#### **4.1.3 TEST PROCEDURE**

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

#### **4.1.4 DEVIATION FROM TEST STANDARD**

No deviation

#### **4.1.5 TEST SETUP**





### 4.1.6 EUT OPERATING CONDITIONS

The EUT exercise program (EMC.exe) used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The program contained on a Notebook PC hard disk and is auto-starting on power-up. Once loaded, the program sequentially exercises each system component in turn. The sequence used is:

The EUT has been programmed to continuously transmit during test.

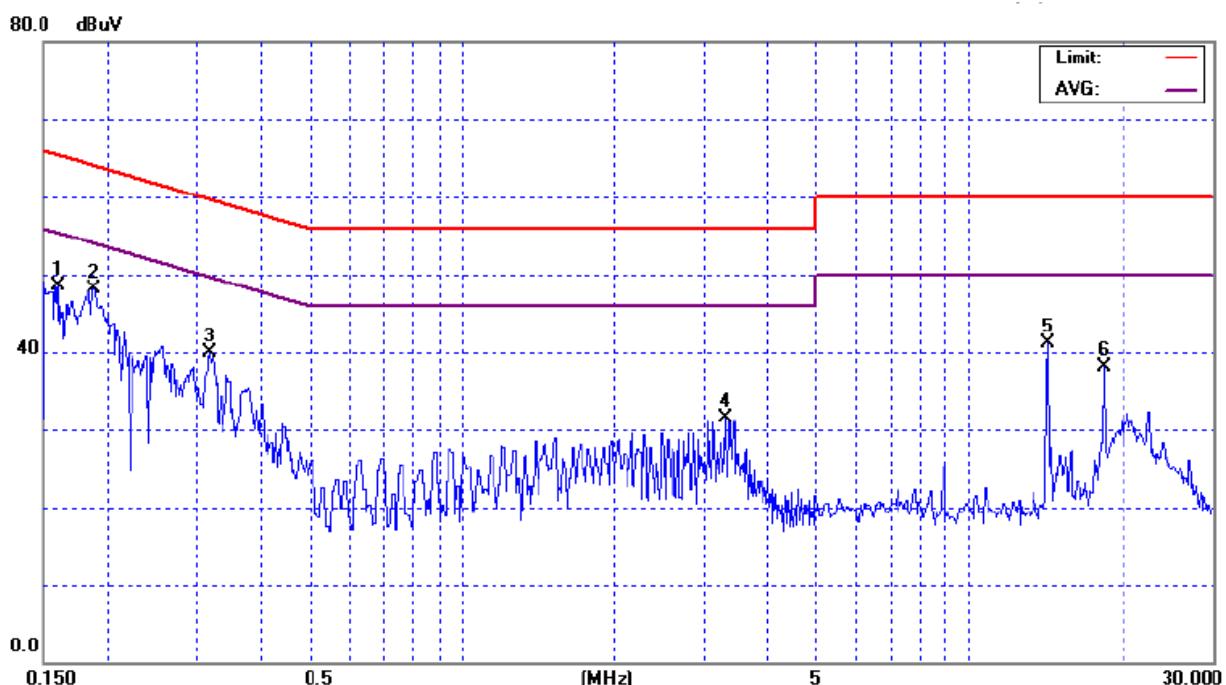
**4.1.7 TEST RESULTS**

E.U.T :	Giga NAS Landisk	Model Name :	PX-WNAS500L
Temperature :	23°C	Relative Humidity :	50%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.16	Line	48.53	*	65.44	55.44	-16.91	(QP)
0.19	Line	48.11	*	64.13	54.13	-16.02	(QP)
0.32	Line	39.86	*	59.76	49.76	-19.90	(QP)
3.31	Line	31.49	*	56.00	46.00	-24.51	(QP)
14.30	Line	41.01	*	60.00	50.00	-18.99	(QP)
18.45	Line	38.10	*	60.00	50.00	-21.90	(QP)

**Remark**

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz ; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.3 sec./MHz . Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz .
- (2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform . In this case, a “ \* ” marked in AVG Mode column of Interference Voltage Measured .
- (3) Measuring frequency range from 150KHz to 30MHz .



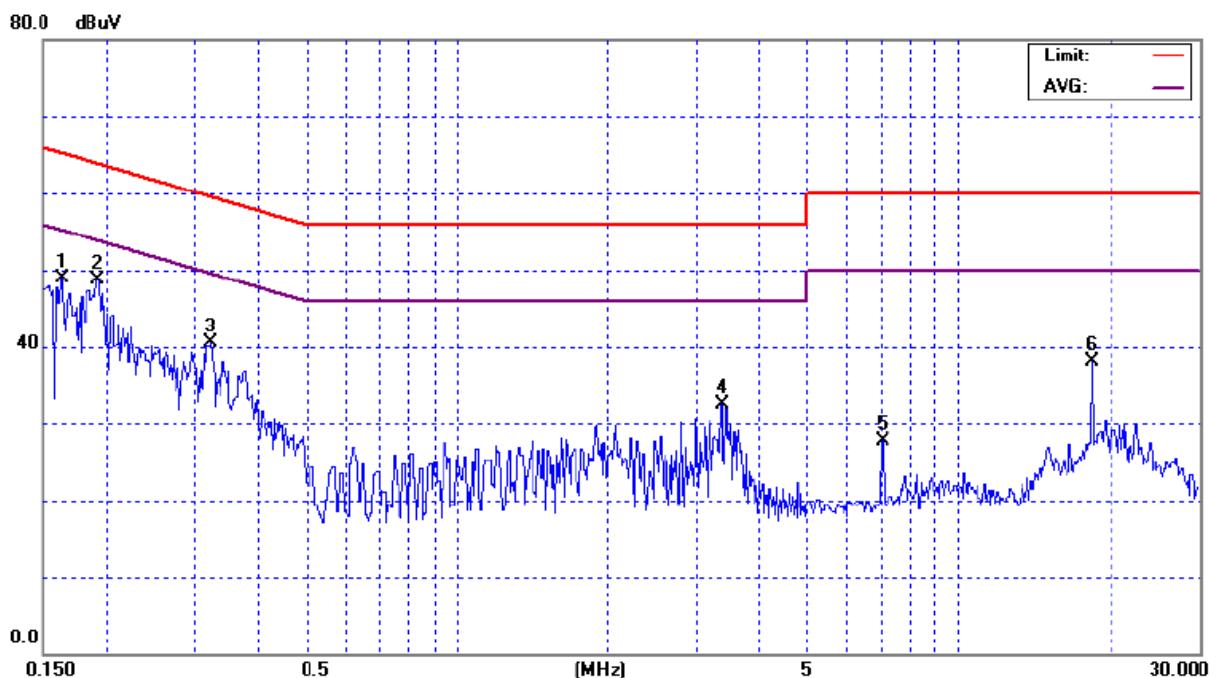


E.U.T :	Giga NAS Landisk	Model Name :	PX-WNAS500L
Temperature :	23°C	Relative Humidity :	50%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06		

Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.16	Neutral	48.85	*	65.33	55.33	-16.48	(QP)
0.19	Neutral	48.65	*	63.95	53.95	-15.30	(QP)
0.32	Neutral	40.56	*	59.63	49.63	-19.07	(QP)
3.37	Neutral	32.59	*	56.00	46.00	-23.41	(QP)
7.05	Neutral	27.76	*	60.00	50.00	-32.24	(QP)
18.45	Neutral	38.04	*	60.00	50.00	-21.96	(QP)

## Remark

- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz ; SPA setting in RBW=10KHz, VBW =10KHz, Swp. Time = 0.3 sec./MHz . Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz, VBW=10Hz, Swp. Time =0.3 sec./MHz .
- (2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform . In this case, a “ \* ” marked in AVG Mode column of Interference Voltage Measured .
- (3) Measuring frequency range from 150KHz to 30MHz .





## 4.2 RADIATED EMISSION MEASUREMENT

### 4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (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

### LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/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 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

**4.2.2 MEASUREMENT INSTRUMENTS LIST**

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3176	Jul. 24, 2009
2	Test Cable	N/A	10M_OS01	N/A	Oct. 20, 2009
3	Test Cable	N/A	3M_OS01	N/A	Oct. 08, 2009
4	Test Cable	N/A	OS01-1/-2	N/A	Oct. 08, 2009
5	Pre-Amplifier	Anritsu	MH648A(OS01)	M09961	Oct. 08, 2009
6	Positioning Controller (OS01)	MF	MF7802	N/A	N/A
7	Turn Table	Chance Most	CMTB-1.5	N/A	N/A
8	Spectrum Analyzer	HP	8591EM	3536A006810 10	Mar. 13, 2009
9	EMI Measuring Receiver	SHCAFFNER	SCR 3501	408	Nov.24.2009
10	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 14, 2009
11	Horn Antenna	Schwarzbeck	BBHA 9120 D	9120D-546	May 27, 2009
12	Microwave Pre_amplifier	Agilent	8449B	3008A02331	Jan. 15, 2009
13	Microflex Cable	NA	NA	1m	Sep. 15, 2009
14	Microflex Cable	NA	NA	10M	Feb. 20, 2009

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

**4.2.3 TEST PROCEDURE**

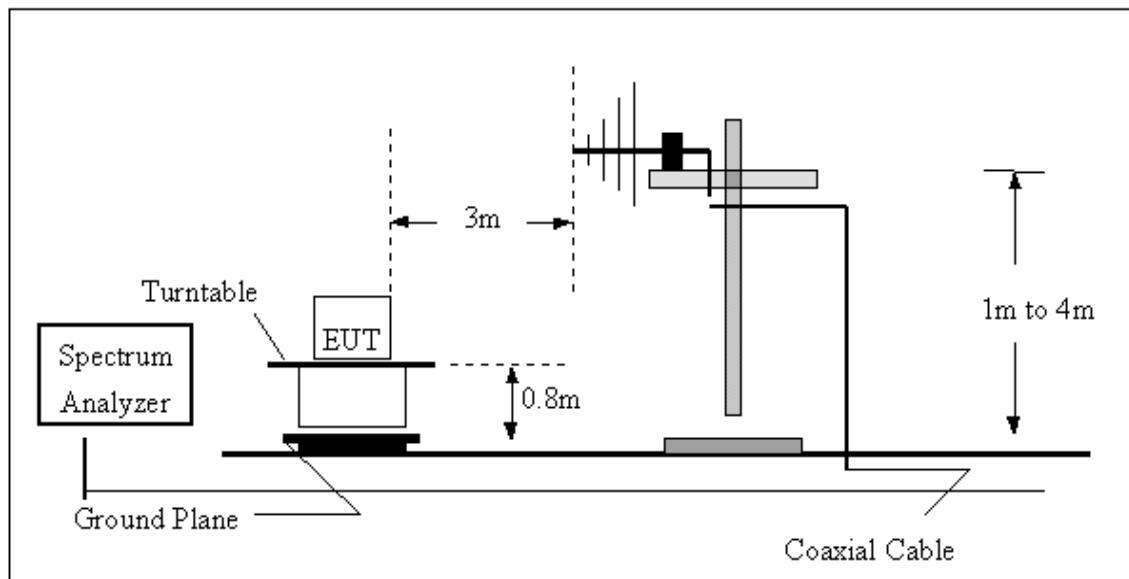
- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table 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.

**4.2.4 DEVIATION FROM TEST STANDARD**

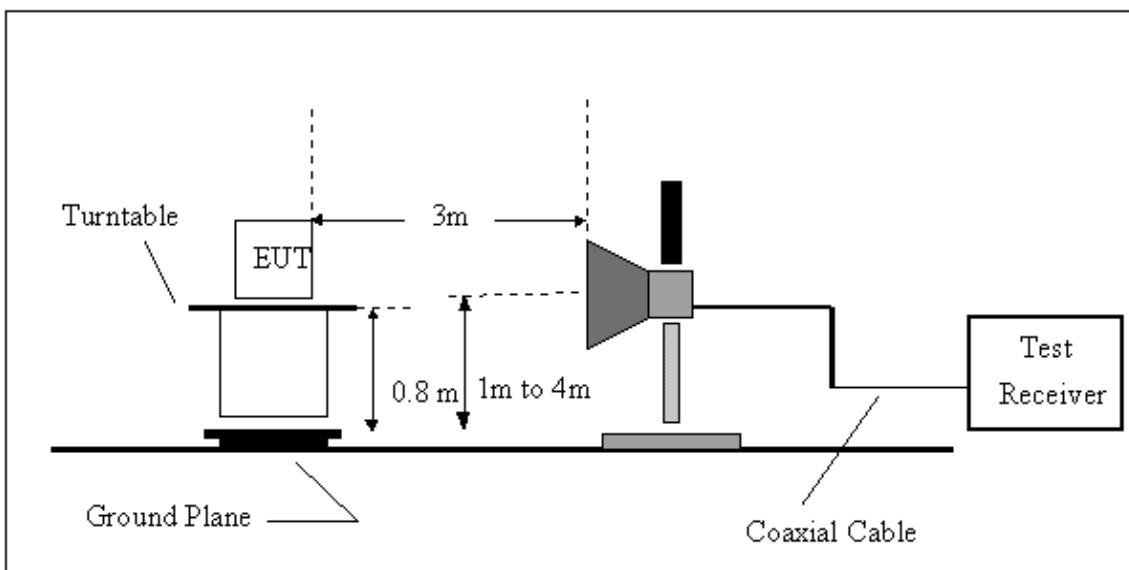
No deviation

#### 4.2.5 TEST SETUP

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



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



#### 4.2.6 EUT OPERATING CONDITIONS

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



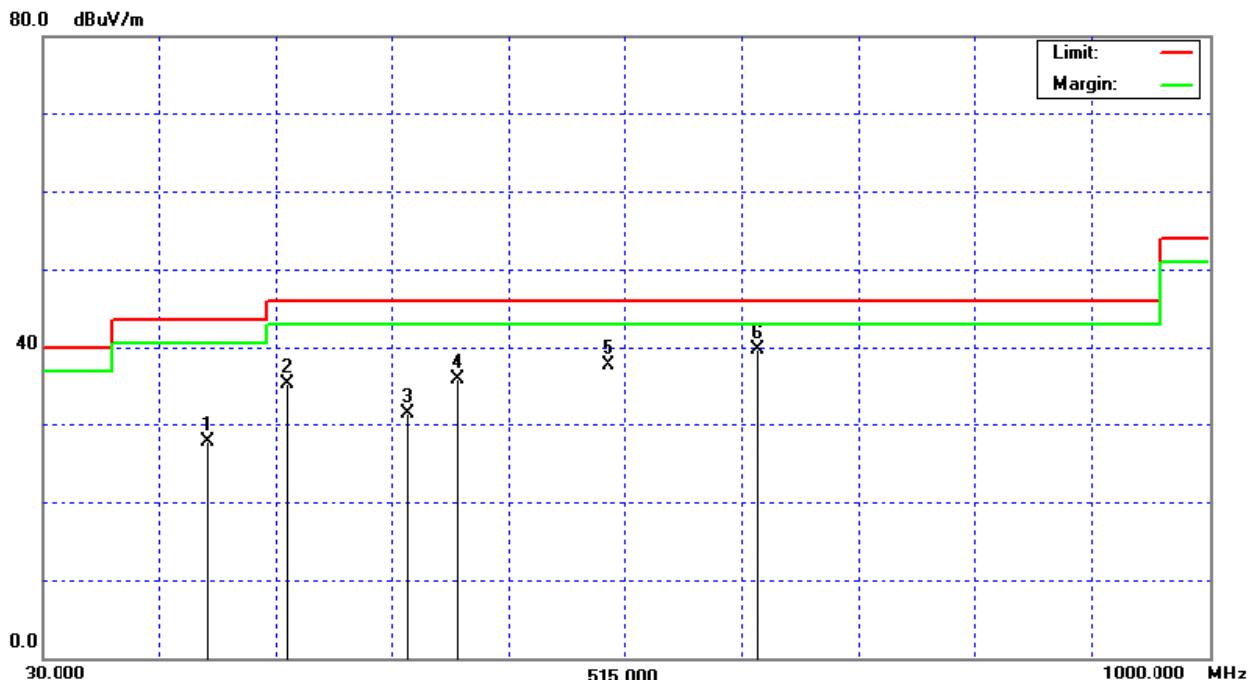
## 4.2.7 TEST RESULTS-BETWEEN 30MHZ - 1000MHZ

EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
165.89	V	31.46	-3.81	27.65	43.50	- 15.85	
233.34	V	39.27	-4.02	35.25	46.00	- 10.75	
333.73	V	31.53	-0.27	31.26	46.00	- 14.74	
375.08	V	34.69	1.25	35.94	46.00	- 10.06	
500.08	V	33.20	4.48	37.68	46.00	- 8.32	(QP)
625.11	V	32.30	7.34	39.64	46.00	- 6.36	

### Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency 。 "F" denotes fundamental frequency; " H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) 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 。
- (5) 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.



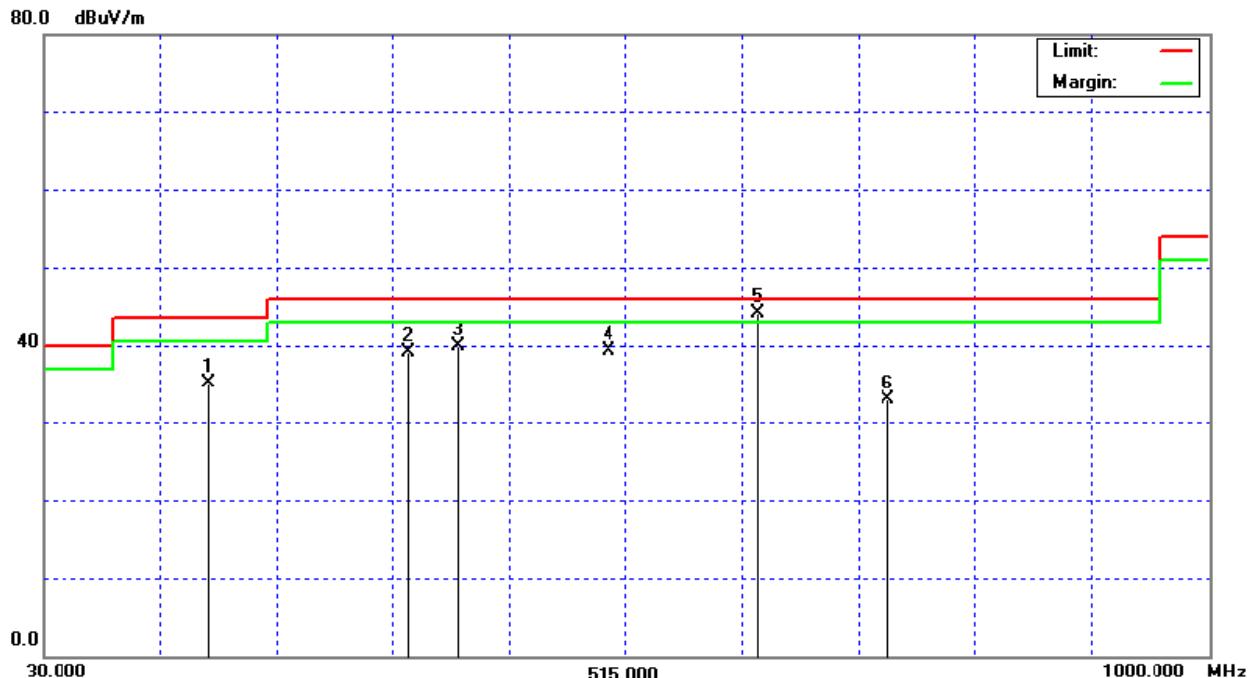


EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
166.68	H	38.98	-3.79	35.19	43.50	- 8.31	
333.34	H	39.30	-0.29	39.01	46.00	- 6.99	(QP)
375.07	H	38.59	1.25	39.84	46.00	- 6.16	
500.02	H	34.80	4.48	39.28	46.00	- 6.72	(QP)
625.15	H	36.70	7.34	44.04	46.00	- 1.96	(QP)
733.35	H	23.50	9.48	32.98	46.00	- 13.02	

## Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency 。 "F" denotes fundamental frequency; " H" denotes spurious frequency. "E" denotes band edge frequency.
- (4) 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 。
- (5) 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.



**4.2.8 TEST RESULTS - ABOVE 1000MHZ**

EUT :	Giga NAS Landisk		Model No. :	PX-WNAS500L	
Temperature :	11 °C		Relative Humidity :	88%	
Test Voltage :	AC 120V/60Hz		Test Mode :	802.11b/CH01	

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	29.18	19.52	32.57	61.75	52.09	74.00	54.00	X/H
2415.00	V	75.56	72.87	32.71	108.27	105.58			X/F
4824.27	V	51.23	48.18	4.05	55.28	52.23	74.00	54.00	X/H
7239.02	V	45.80	34.40	11.67	57.47	46.07	74.00	54.00	X/H

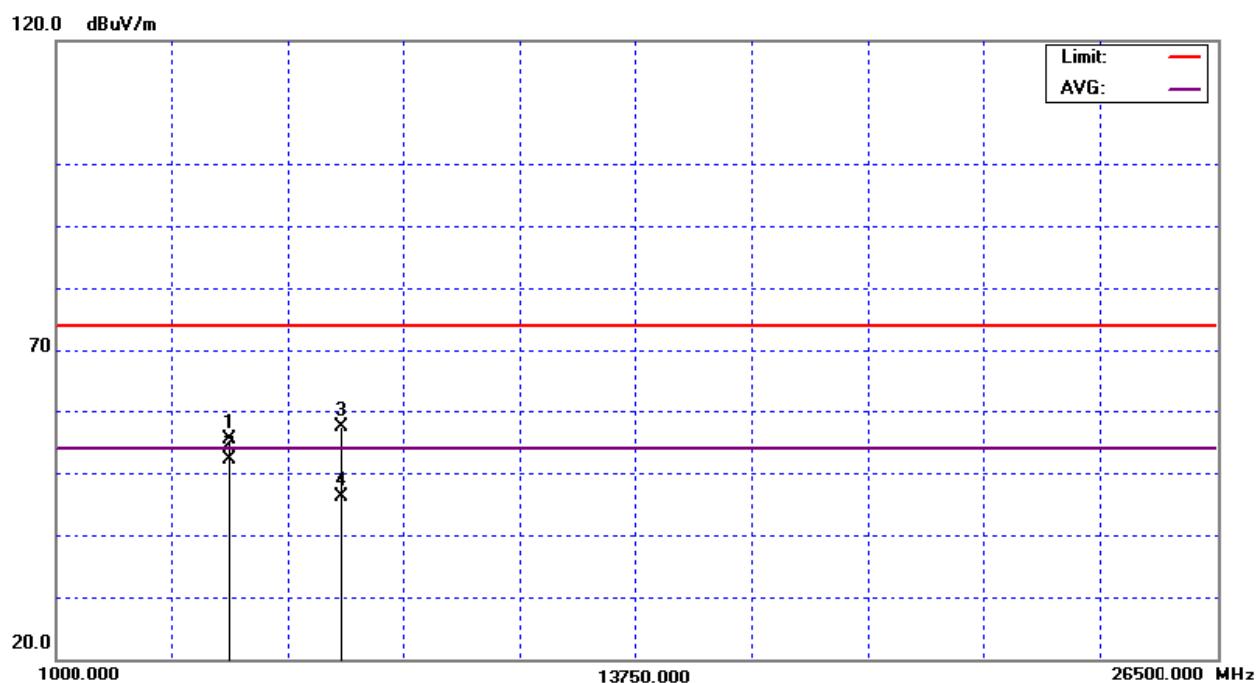
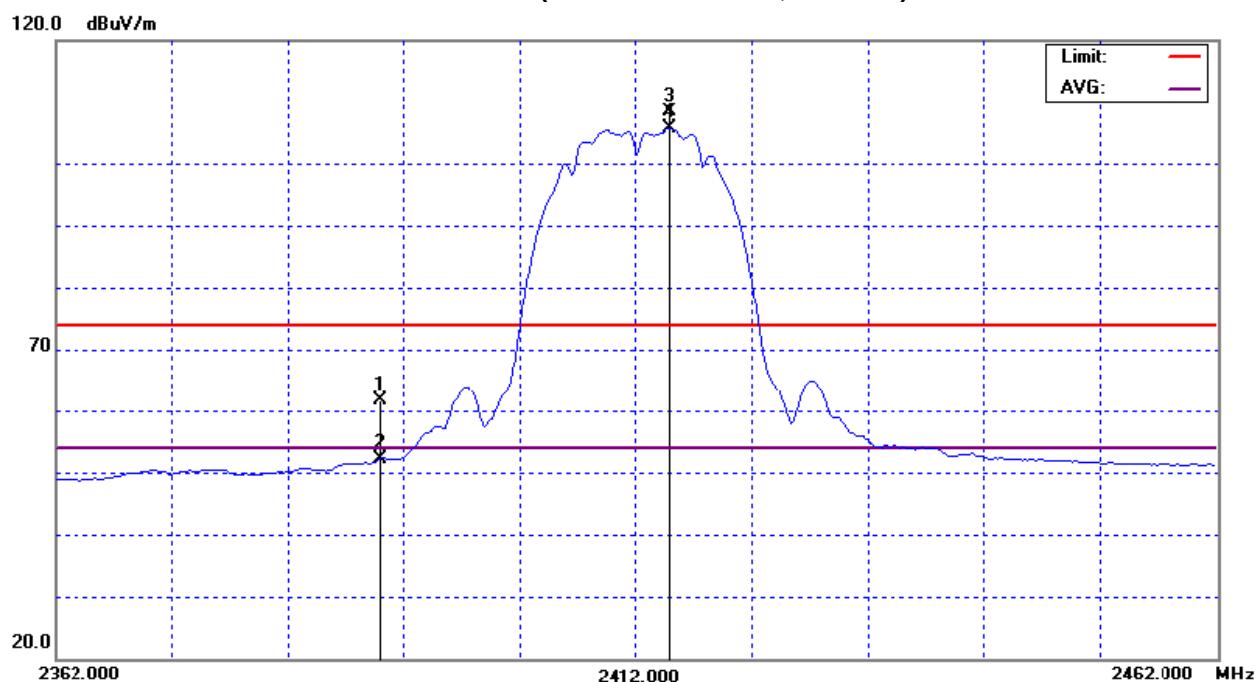
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X

802.11b/CH01(Above 1000 MHz, Vertical)





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	25.30	14.93	32.57	57.87	47.50	74.00	54.00	X/H
2409.40	H	65.47	62.79	32.68	98.15	95.47			X/F
4824.26	H	52.74	49.50	4.05	56.79	53.55	74.00	54.00	X/H
7233.28	H	47.38	36.43	11.65	59.03	48.08	74.00	54.00	X/H

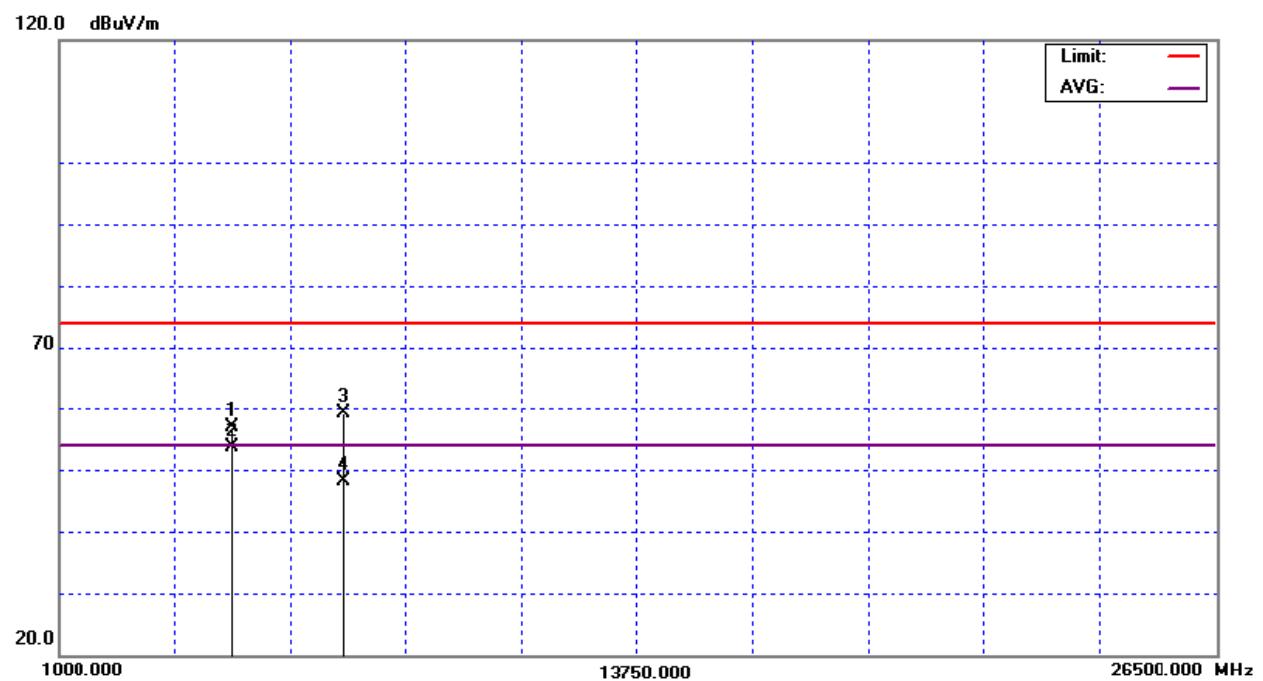
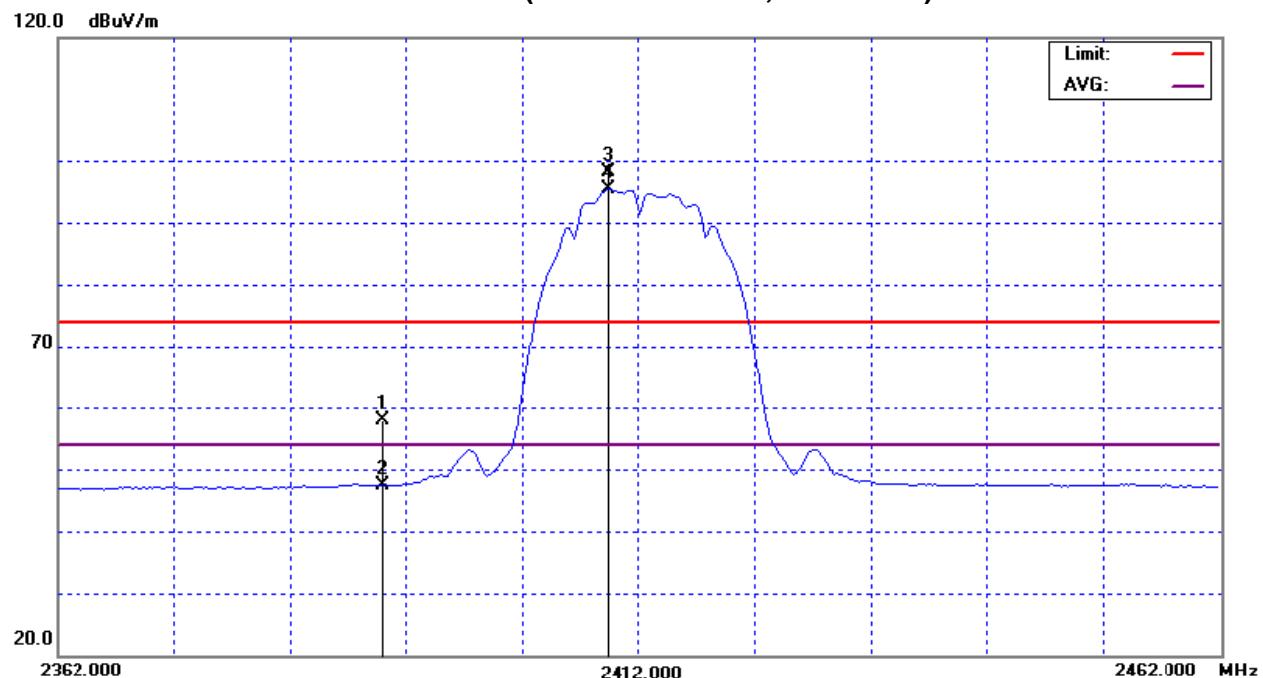
Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11b/CH01(Above 1000 MHz, Horizontal)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2434.40	V	78.51	75.45	32.82	111.33	108.27			X/F
4874.27	V	51.20	47.21	4.29	55.49	51.50	74.00	54.00	X/H
7311.28	V	47.65	35.34	11.86	59.51	47.20	74.00	54.00	X/H

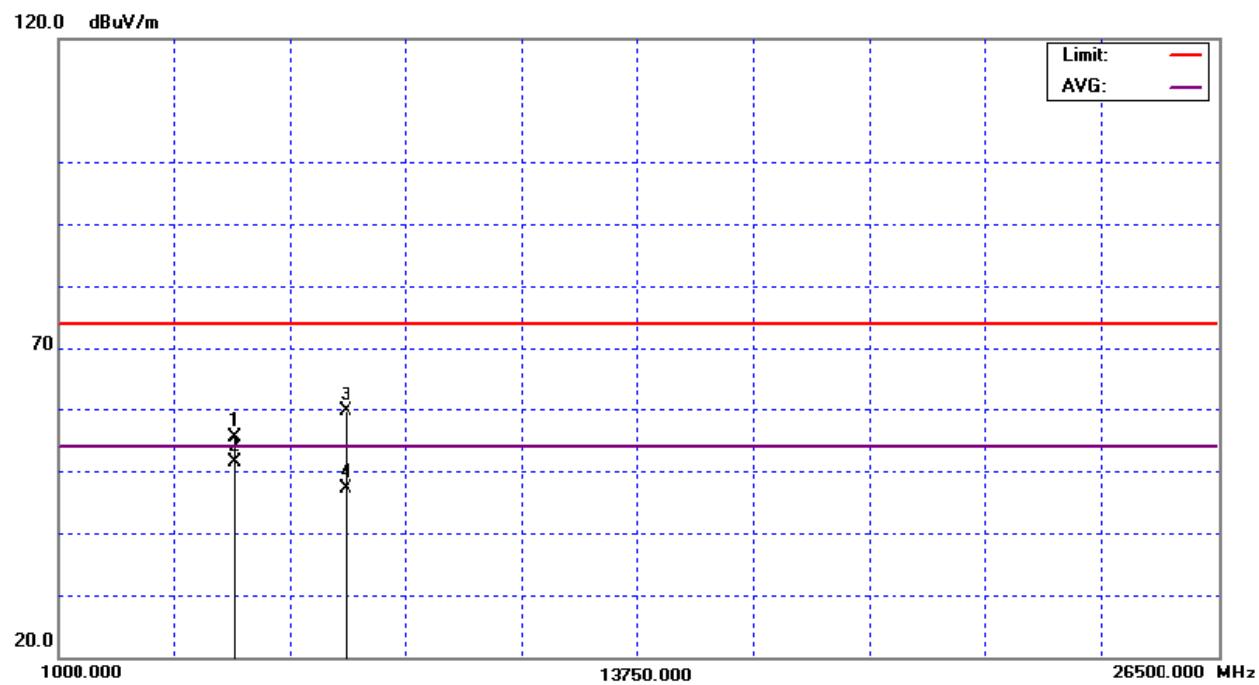
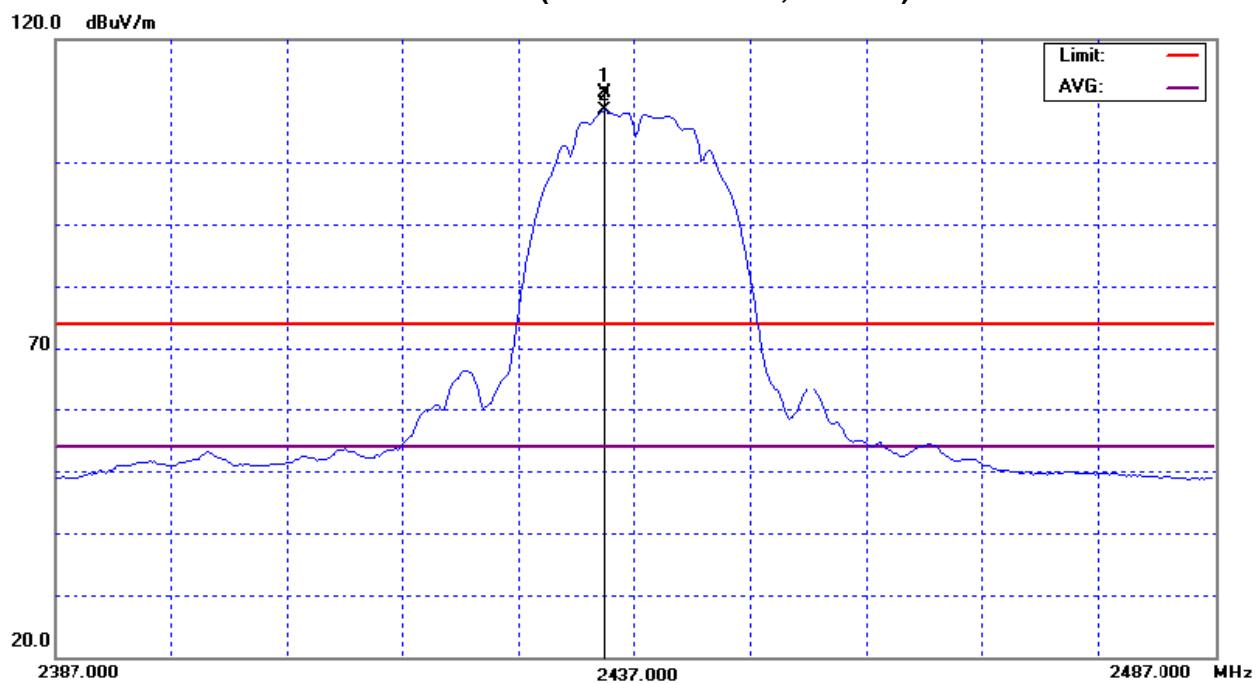
Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11b/CH06(Above 1000 MHz, Vertical)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH06		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2434.40	H	67.98	64.84	32.82	100.80	97.66			X/F
4874.27	H	52.17	48.92	4.29	56.46	53.21	74.00	54.00	X/H
7308.40	H	48.75	36.87	11.85	60.60	48.72	74.00	54.00	X/H

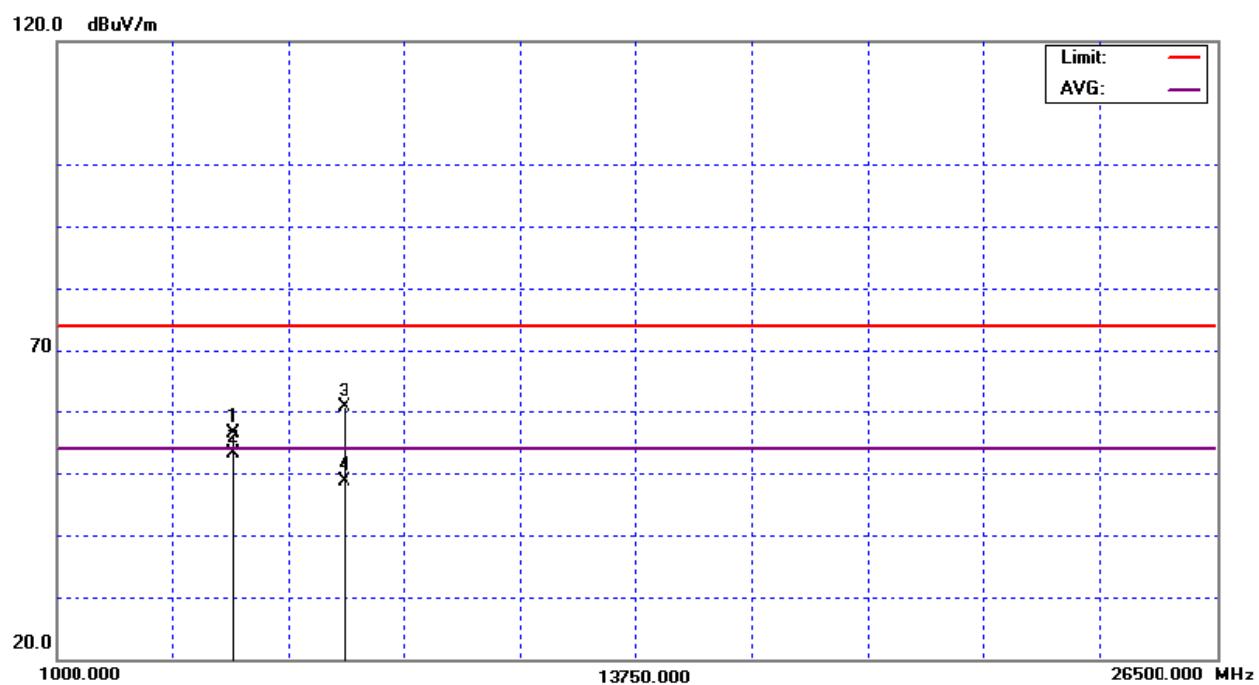
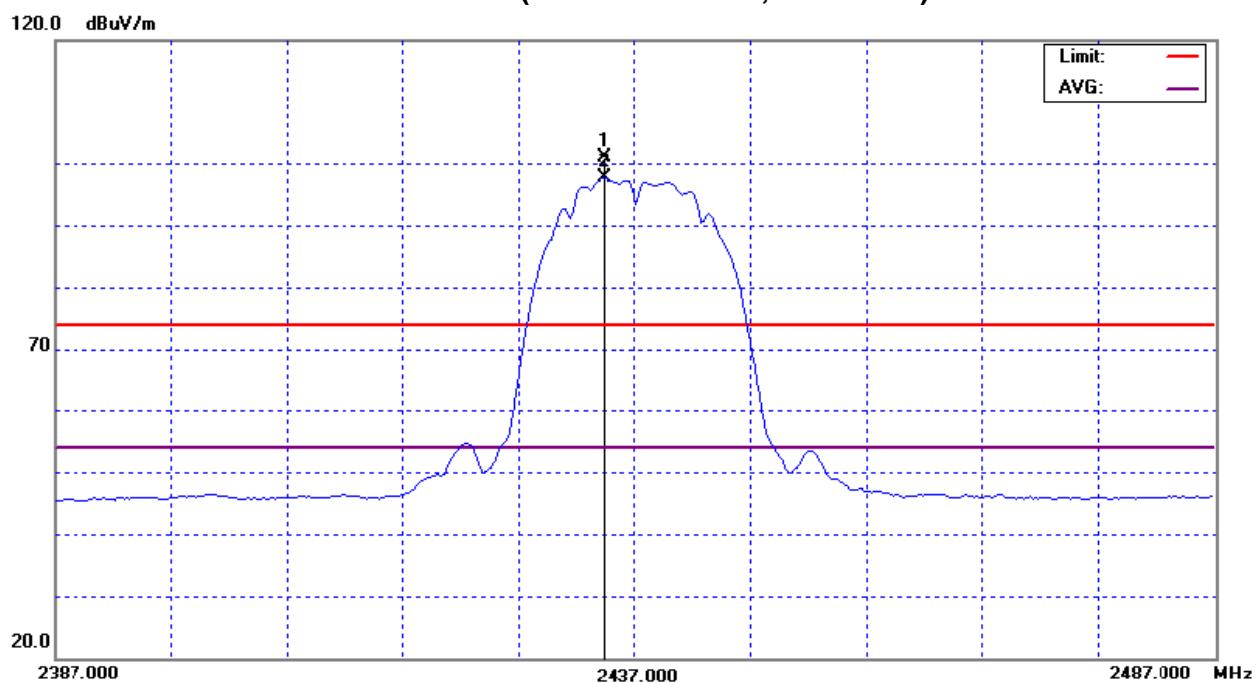
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X

802.11b/CH06(Above 1000 MHz, Horizontal)





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH11		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2459.40	V	75.60	73.29	32.96	108.56	106.25			X/F
2483.50	V	27.88	18.52	33.10	60.98	51.62	74.00	54.00	X/H
4924.28	V	50.62	46.94	4.54	55.16	51.48	74.00	54.00	X/H
7383.64	V	46.87	34.76	12.05	58.92	46.81	74.00	54.00	X/H

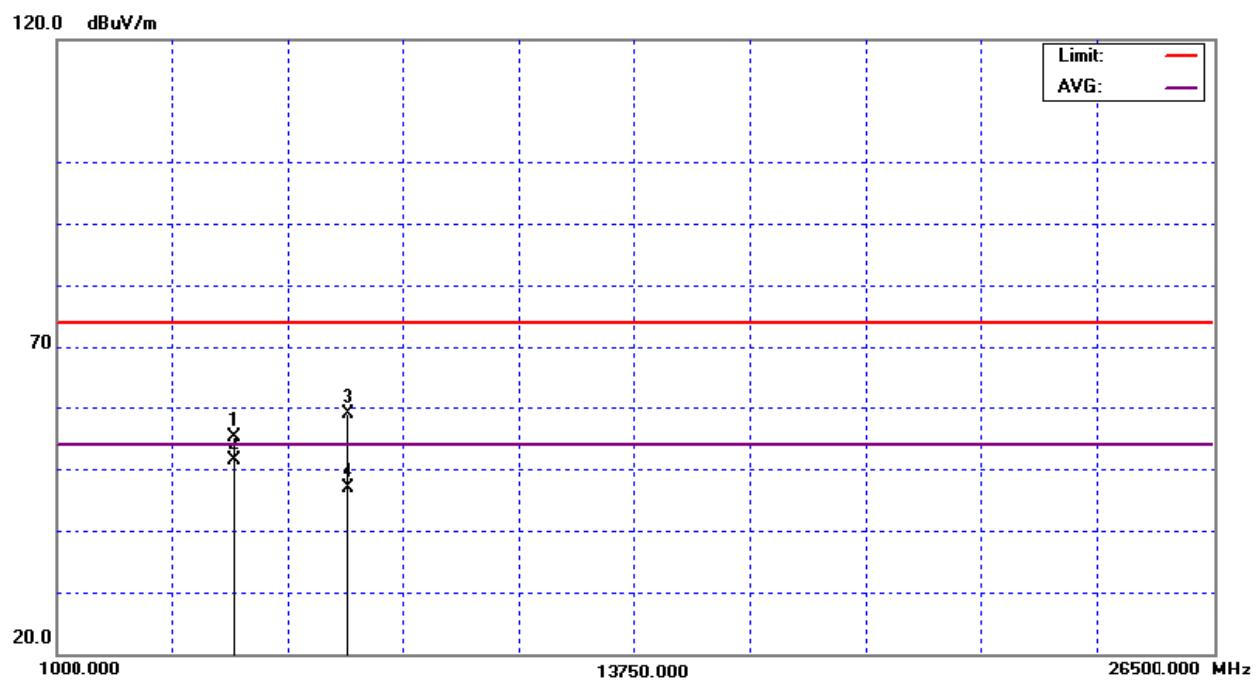
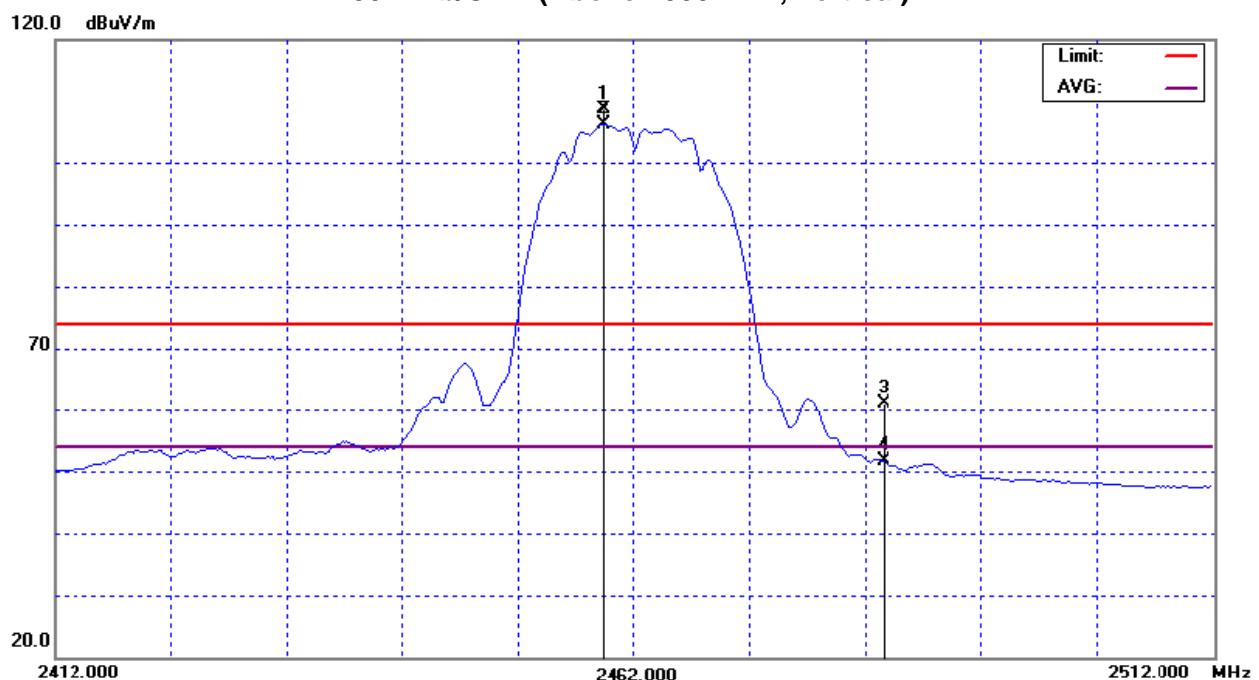
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11b/CH11(Above 1000 MHz, Vertical)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH11		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2465.00	H	64.29	62.34	32.99	97.28	95.33			X/F
2483.50	H	24.36	14.24	33.10	57.46	47.34	74.00	54.00	X/H
4924.26	H	51.85	48.72	4.54	56.39	53.26	74.00	54.00	X/H
7382.96	H	47.98	35.75	12.05	60.03	47.80	74.00	54.00	X/H

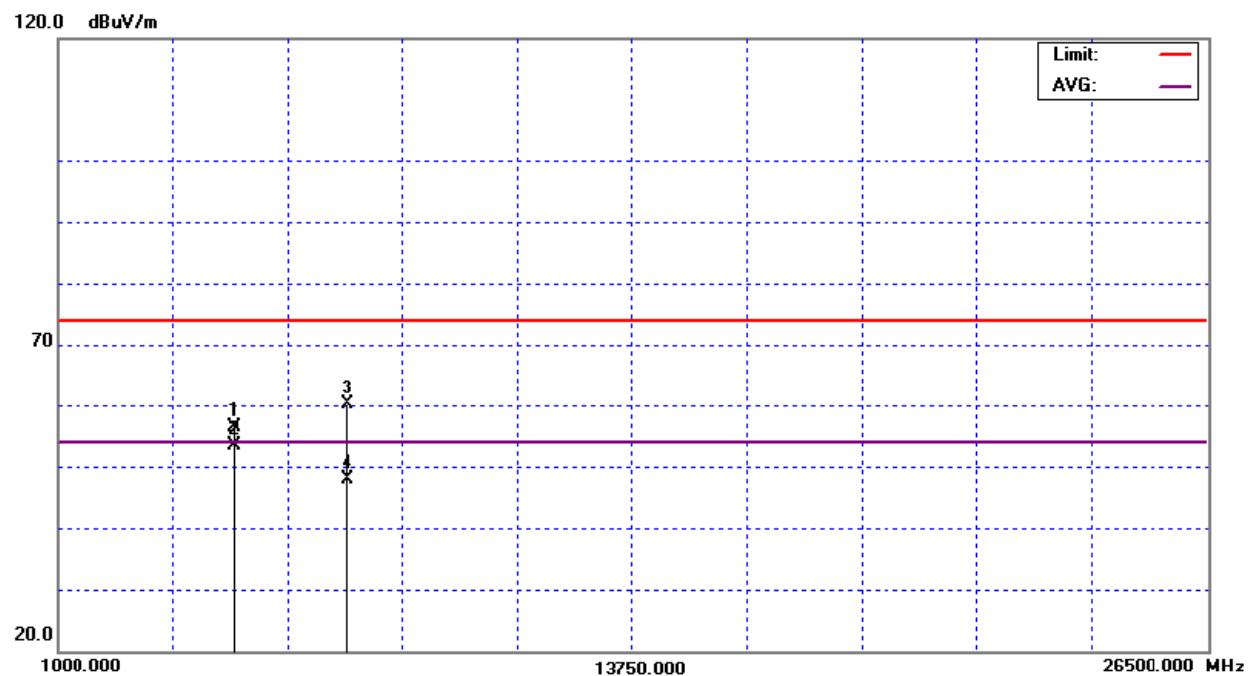
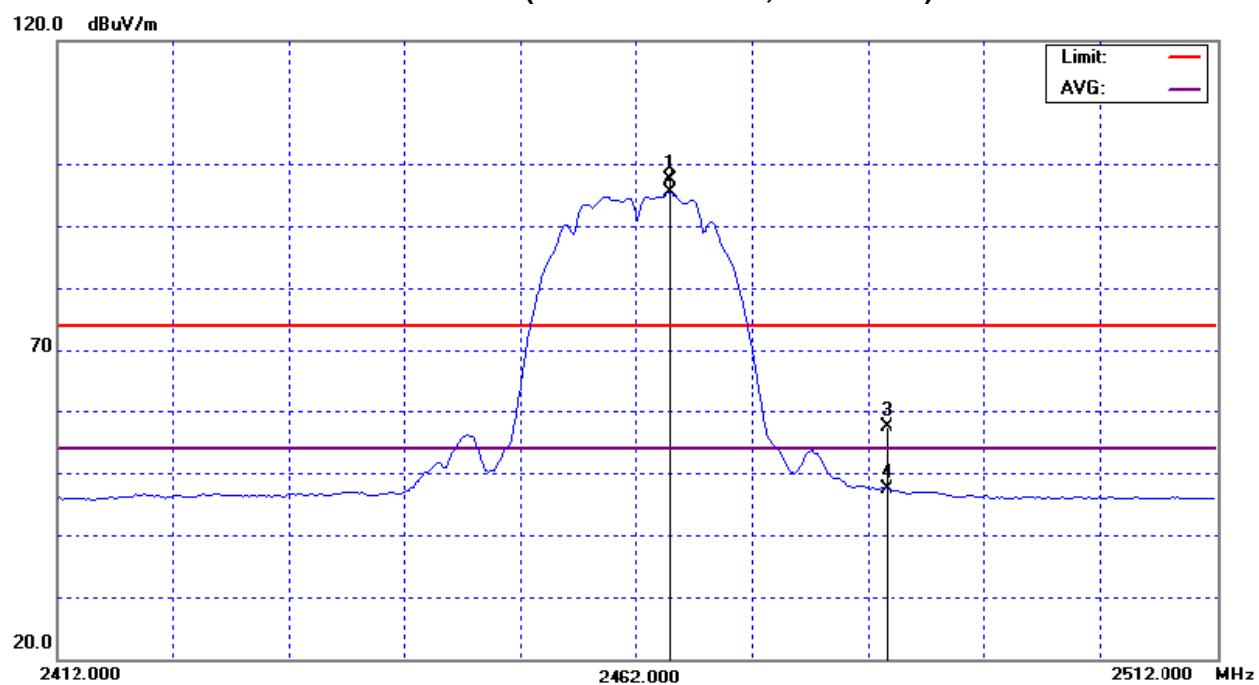
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11b/CH11(Above 1000 MHz, Horizontal)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	38.63	21.13	32.57	71.20	53.70	74.00	54.00	X/H
2419.40	V	79.93	71.26	32.74	112.67	104.00			X/F
4824.70	V	51.65	39.28	4.05	55.70	43.33	74.00	54.00	X/H
7236.60	V	46.50	34.16	11.66	58.16	45.82	74.00	54.00	X/H

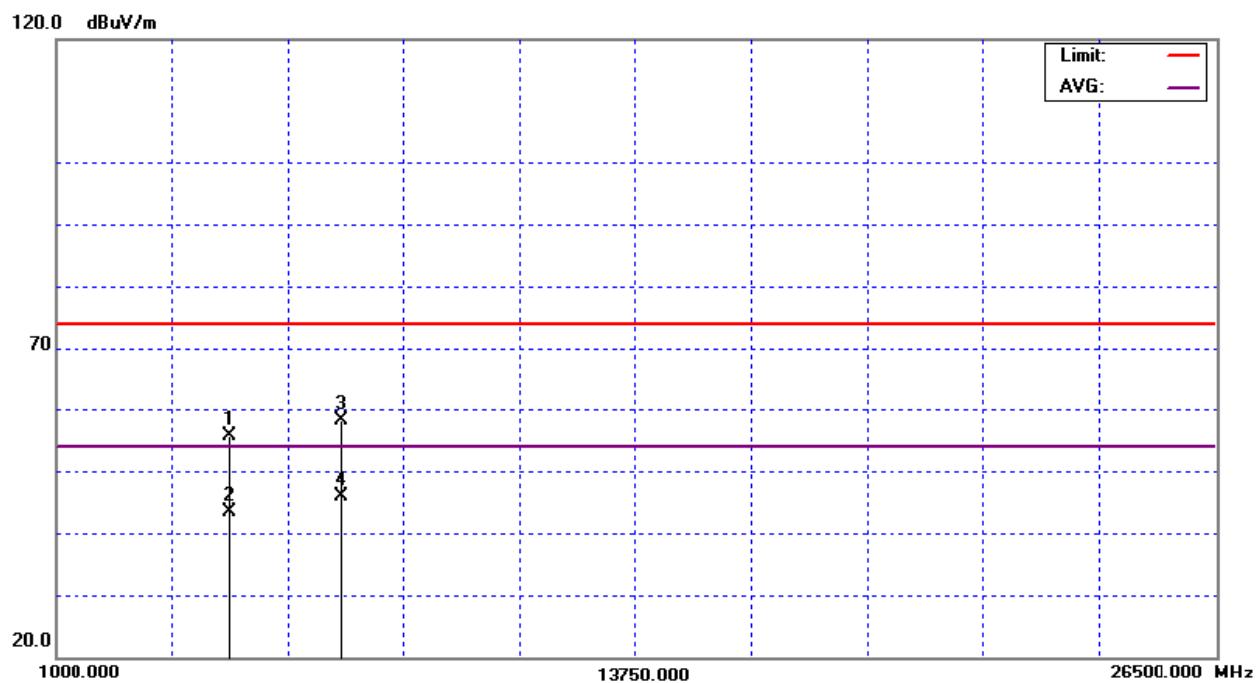
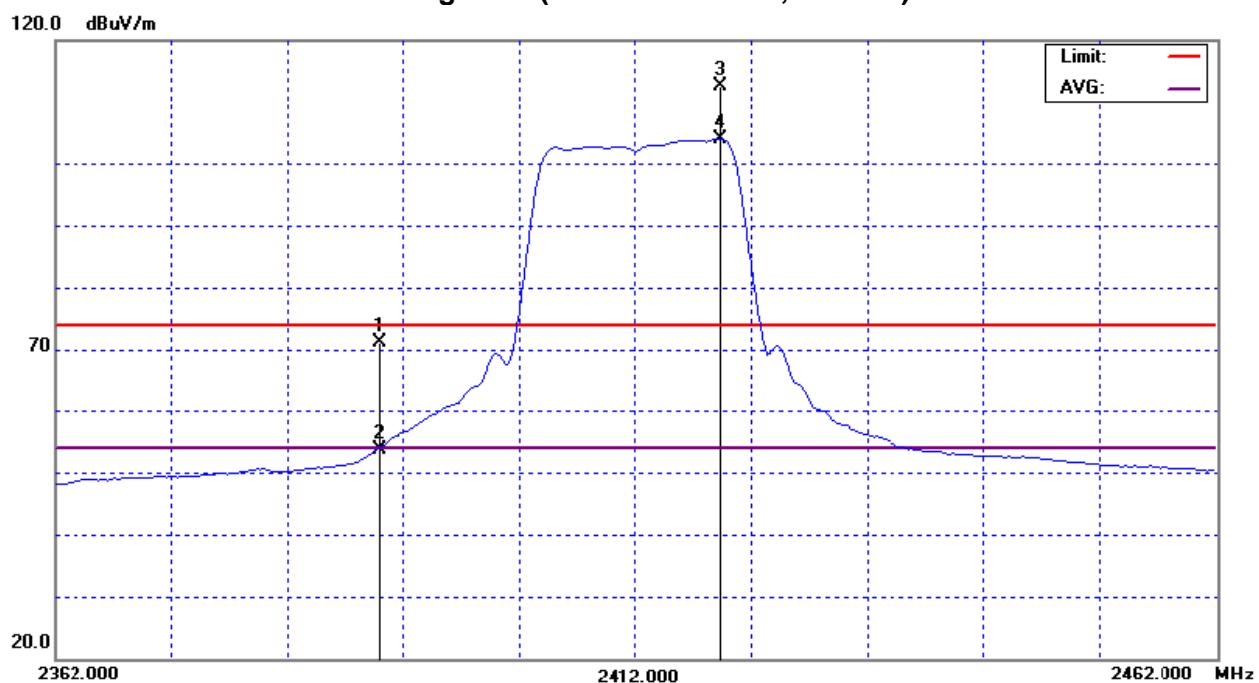
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X

802.11g/CH01(Above 1000 MHz, Vertical)





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	24.37	14.43	32.57	56.94	47.00	74.00	54.00	X/H
2408.80	H	69.12	60.75	32.68	101.80	93.43			X/F
4824.50	H	52.89	40.37	4.05	56.94	44.42	74.00	54.00	X/H
7243.60	H	46.44	34.79	11.68	58.12	46.47	74.00	54.00	X/H

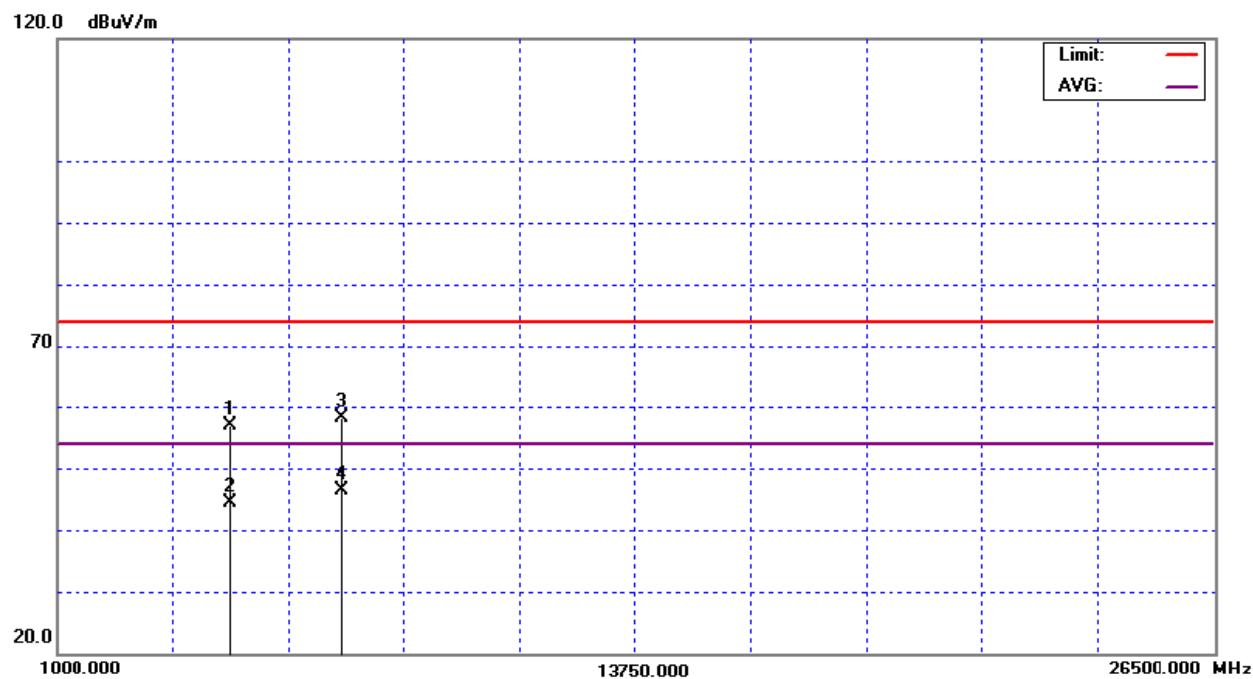
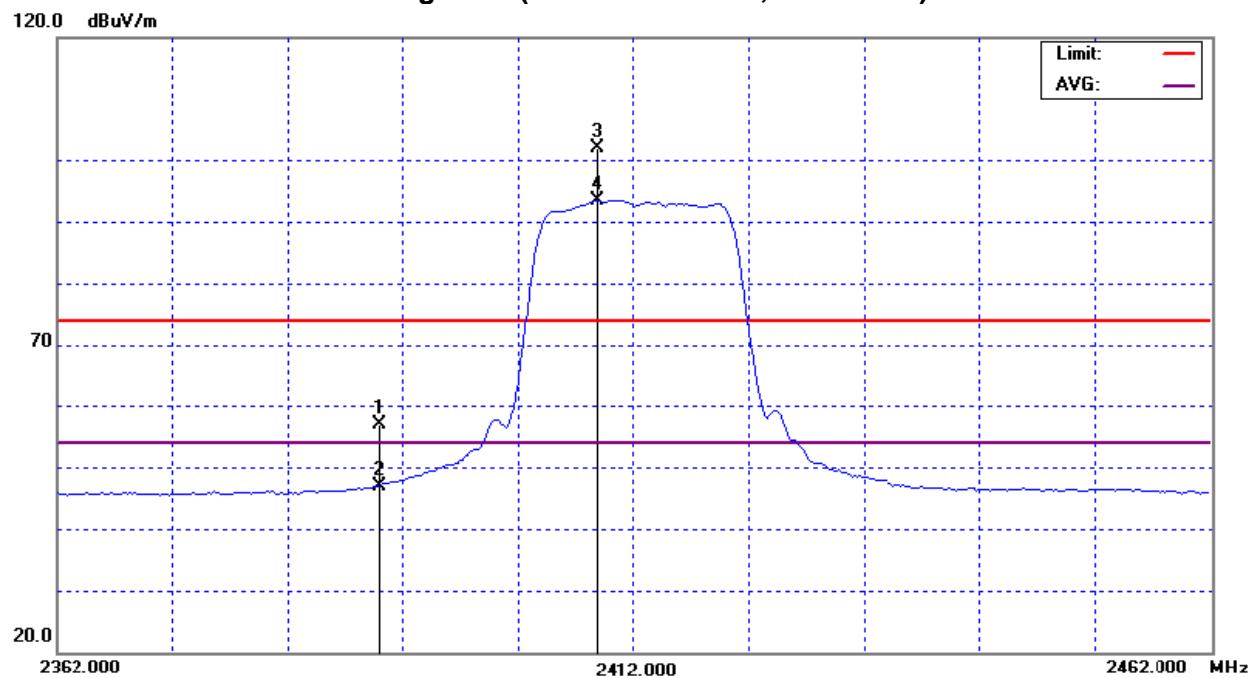
Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11g/CH01(Above 1000 MHz, Horizontal)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH06		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2441.00	V	83.94	75.09	32.86	116.80	107.95			X/F
4874.30	V	53.87	41.00	4.29	58.16	45.29	74.00	54.00	X/H
7308.80	V	53.26	39.47	11.85	65.11	51.32	74.00	54.00	X/H

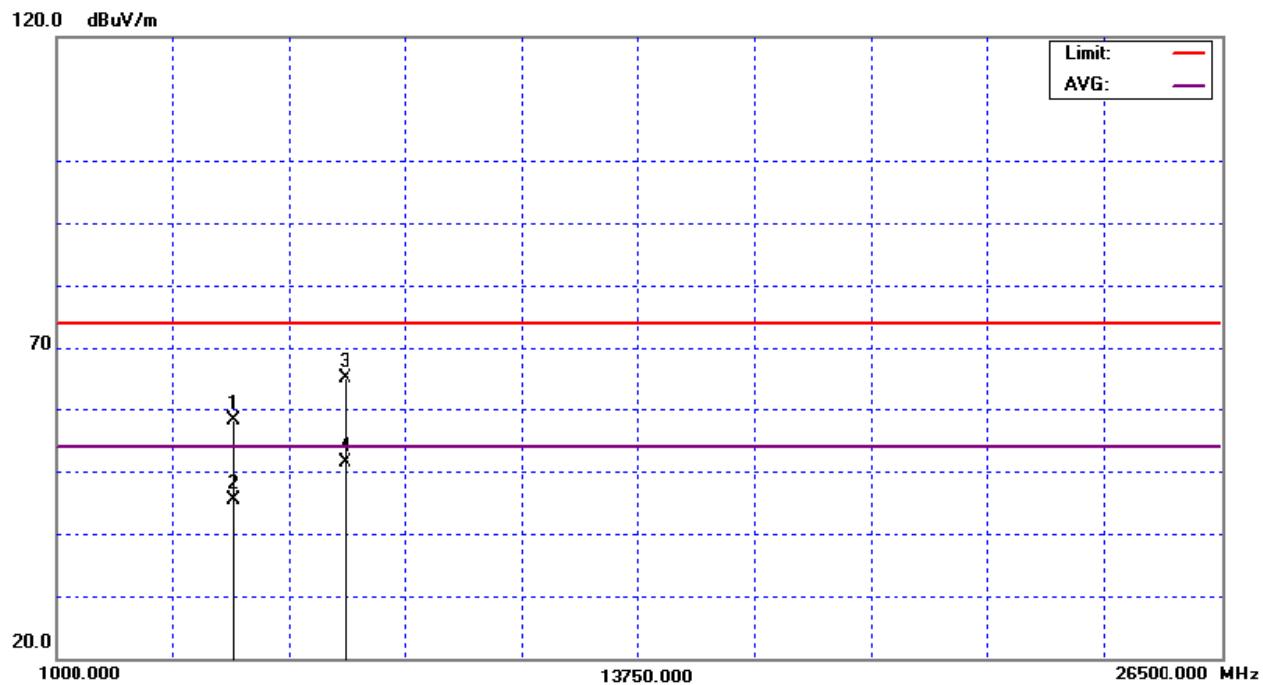
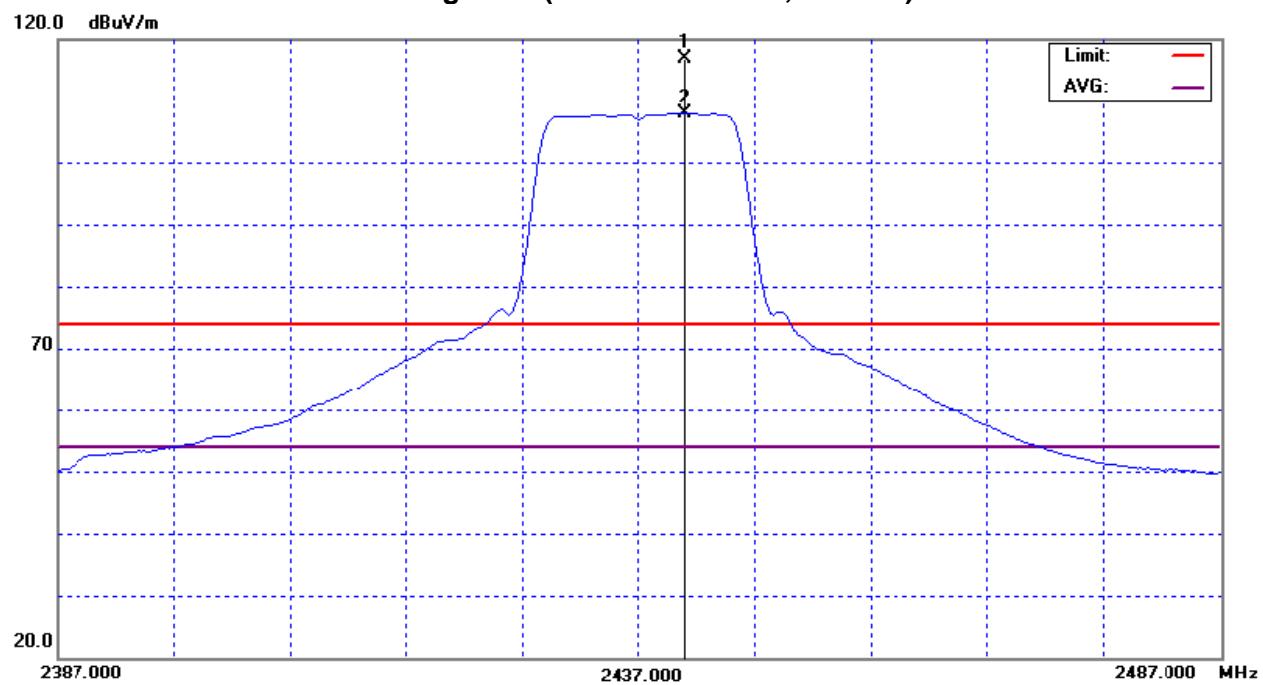
Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11g/CH06(Above 1000 MHz, Vertical)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH06		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2430.20	H	73.23	64.54	32.80	106.03	97.34			X/F
4874.40	H	54.06	42.09	4.29	58.35	46.38	74.00	54.00	X/H
7310.40	H	53.77	40.09	11.86	65.63	51.95	74.00	54.00	X/H

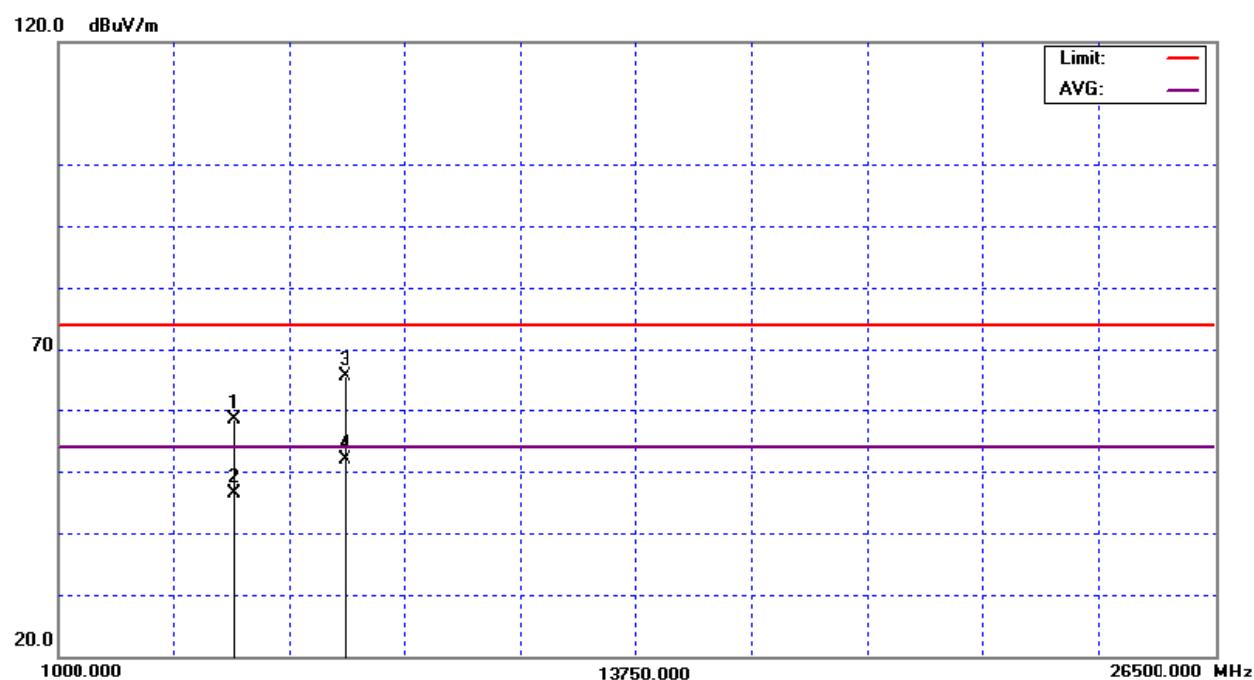
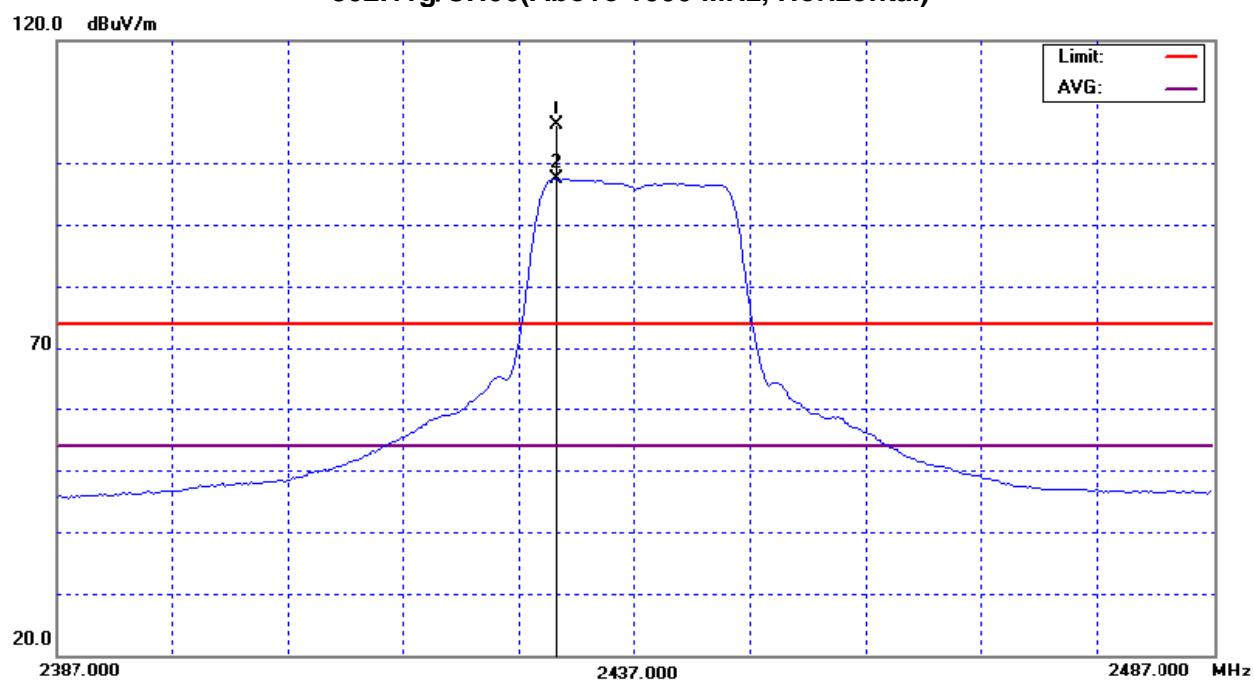
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X

802.11g/CH06(Above 1000 MHz, Horizontal)





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH11		

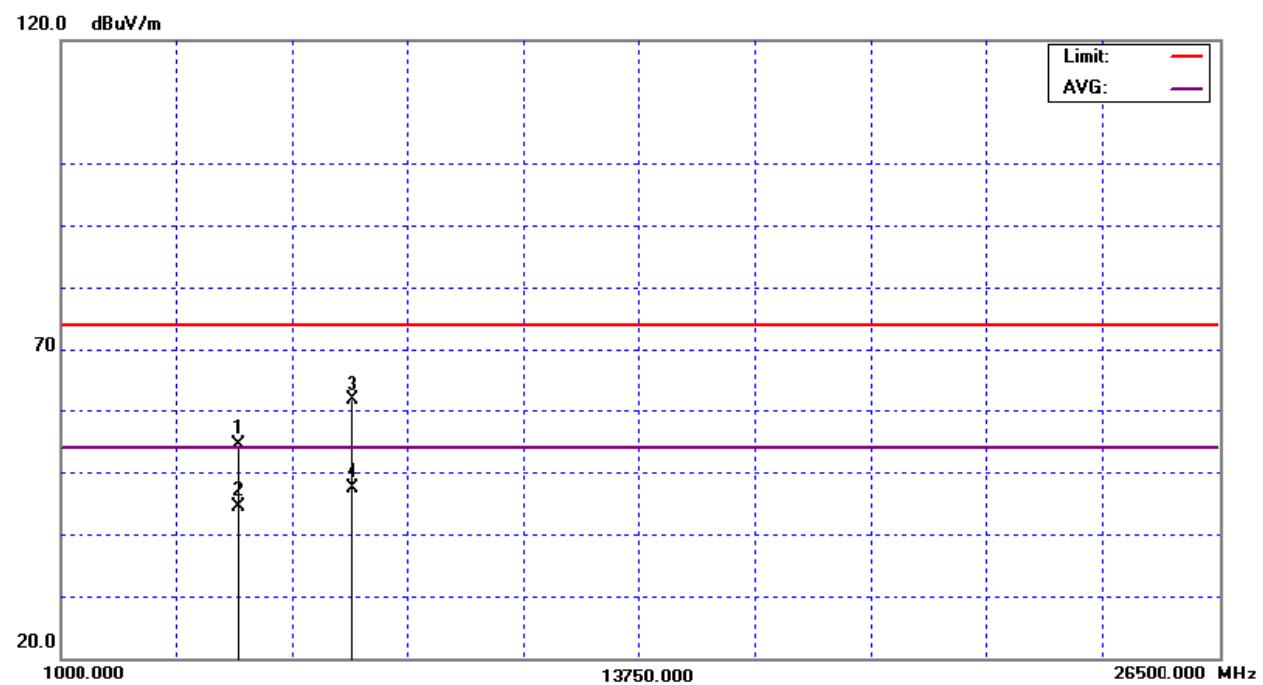
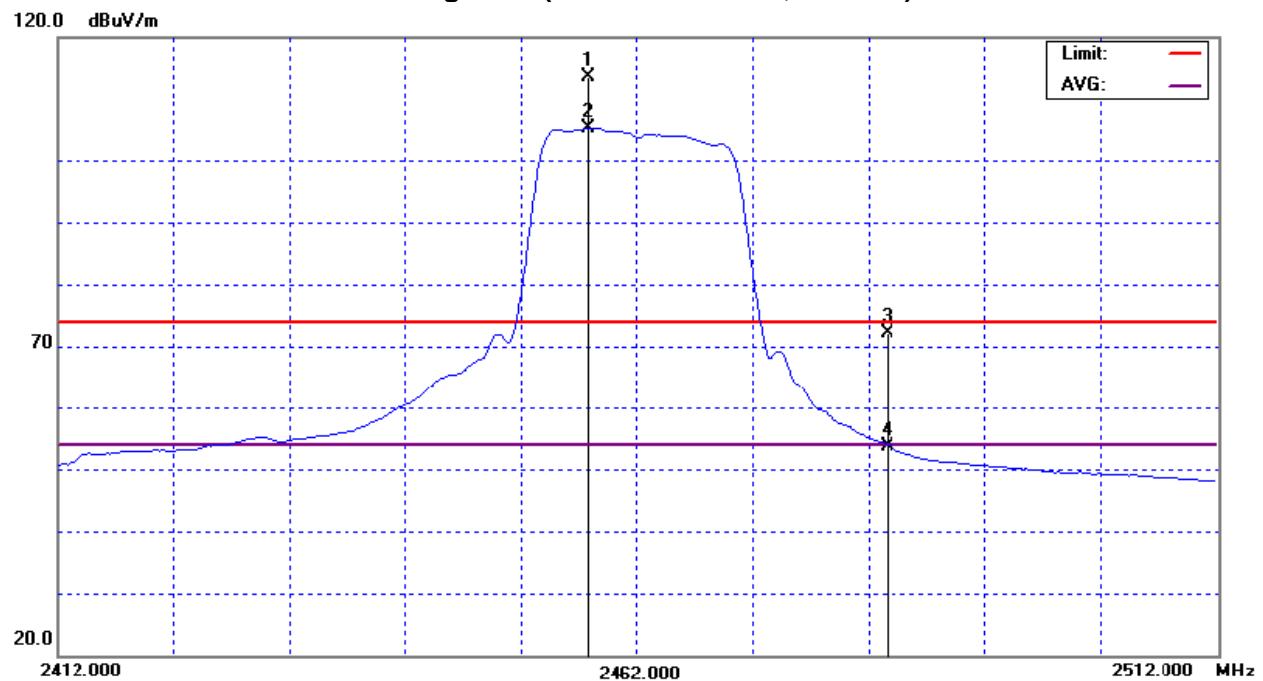
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2457.80	V	80.78	72.09	32.95	113.73	105.04			X/F
2483.50	V	38.91	20.57	33.10	72.01	53.67	74.00	54.00	X/H
4924.60	V	49.87	39.78	4.54	54.41	44.32	74.00	54.00	X/H
7388.10	V	49.56	35.23	12.07	61.63	47.30	74.00	54.00	X/H

**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**  
**802.11g/CH11(Above 1000 MHz, Vertical)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH11		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2455.00	H	69.10	61.06	32.94	102.04	94.00			X/F
2483.50	H	29.93	16.15	33.10	63.03	49.25	74.00	54.00	X/H
4923.20	H	50.80	40.11	4.53	55.33	44.64	74.00	54.00	X/H
7387.00	H	50.17	35.90	12.06	62.23	47.96	74.00	54.00	X/H

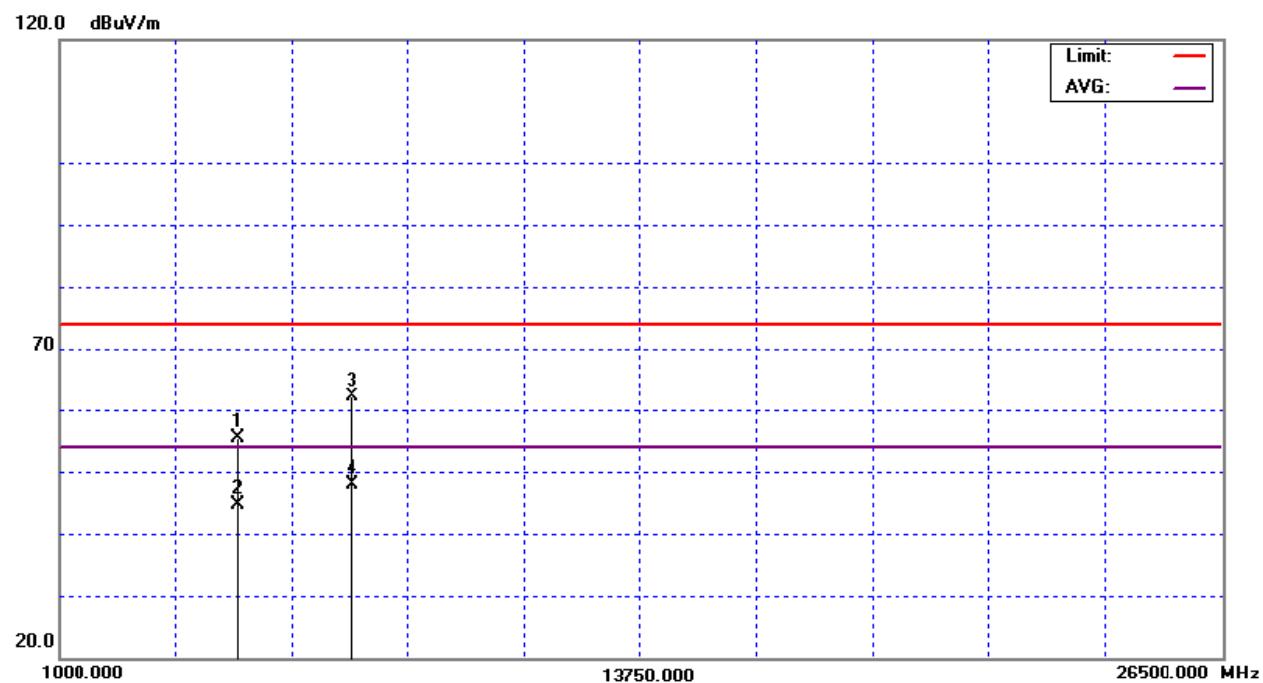
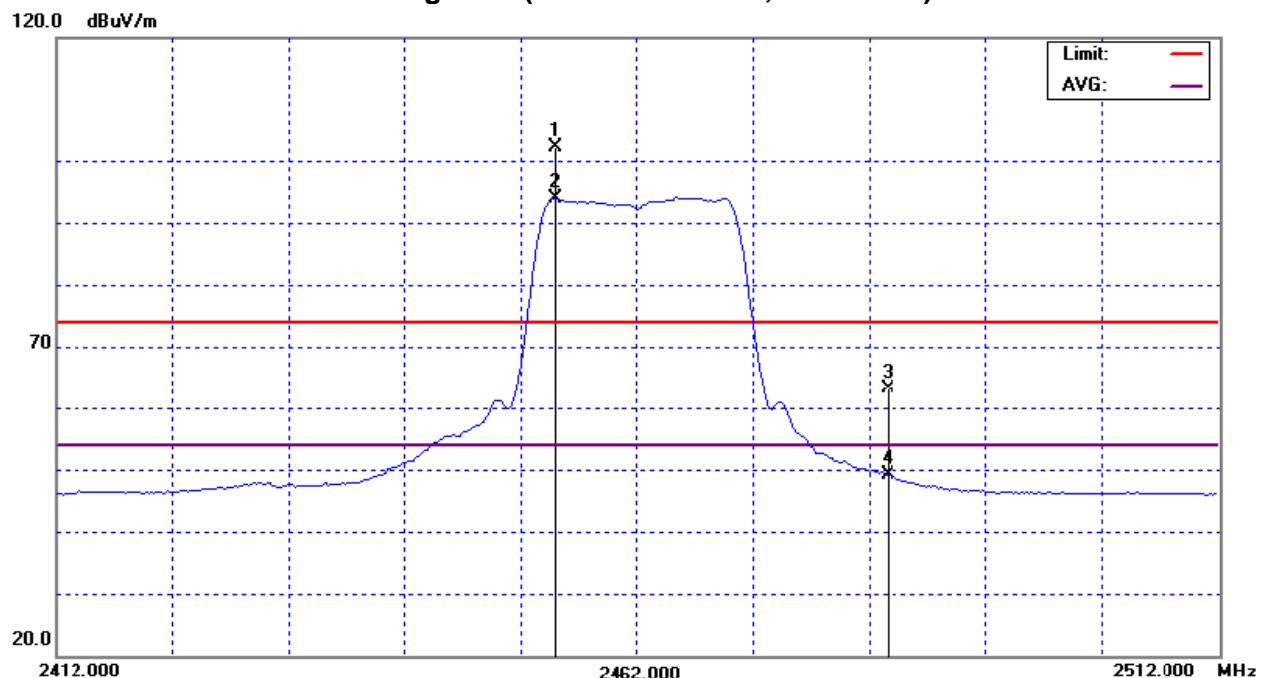
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11g/CH11(Above 1000 MHz, Horizontal)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	36.66	21.12	32.57	69.23	53.69	74.00	54.00	X/H
2419.20	V	79.41	70.09	32.74	112.15	102.83			X/F
4823.90	V	50.64	36.49	4.04	54.68	40.53	74.00	54.00	X/H
7241.10	V	46.70	33.39	11.67	58.37	45.06	74.00	54.00	X/H

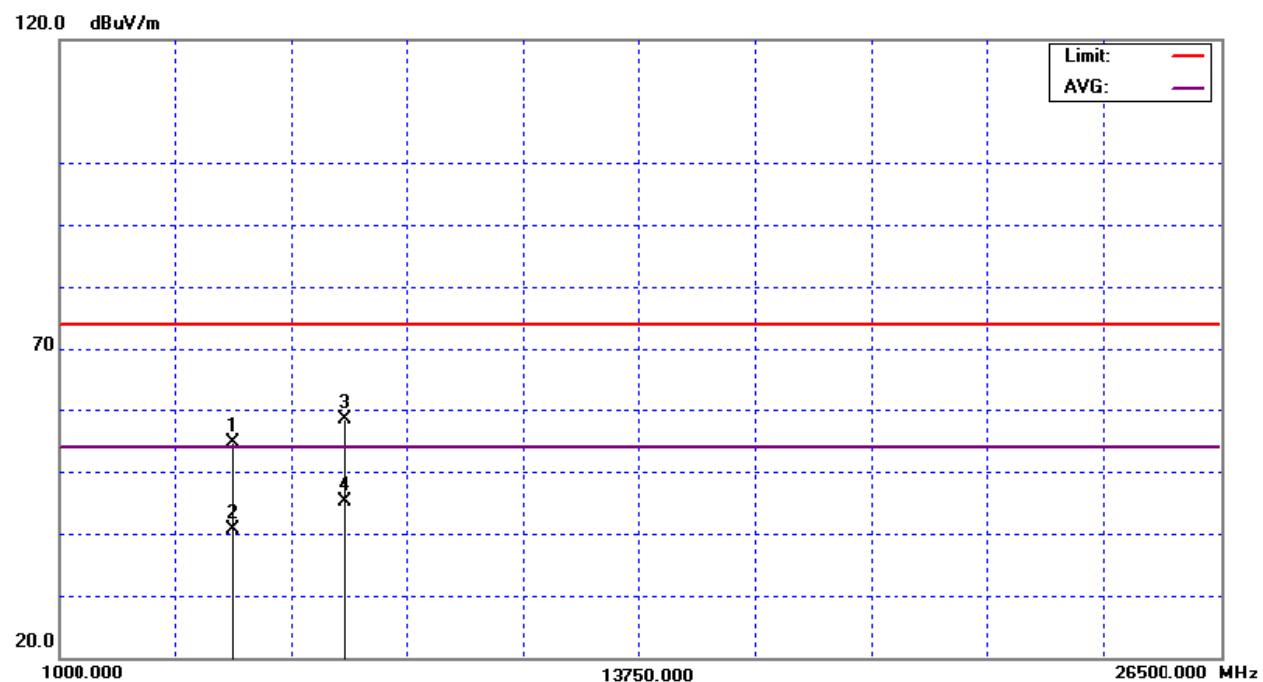
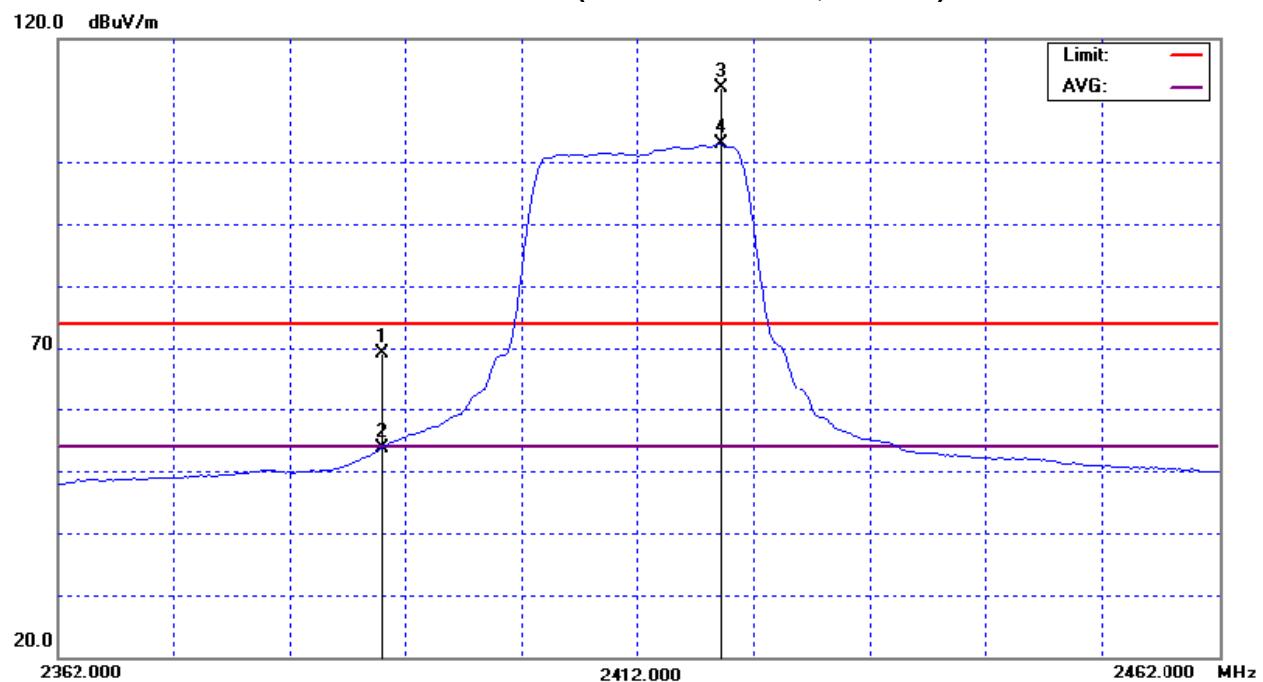
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11n/20M/CH01(Above 1000 MHz, Vertical)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	24.34	14.26	32.57	56.91	46.83	74.00	54.00	X/H
2419.20	H	66.65	58.18	32.74	99.39	90.92			X/F
4824.20	H	51.49	37.66	4.05	55.54	41.71	74.00	54.00	X/H
7242.00	H	47.87	34.54	11.67	59.54	46.21	74.00	54.00	X/H

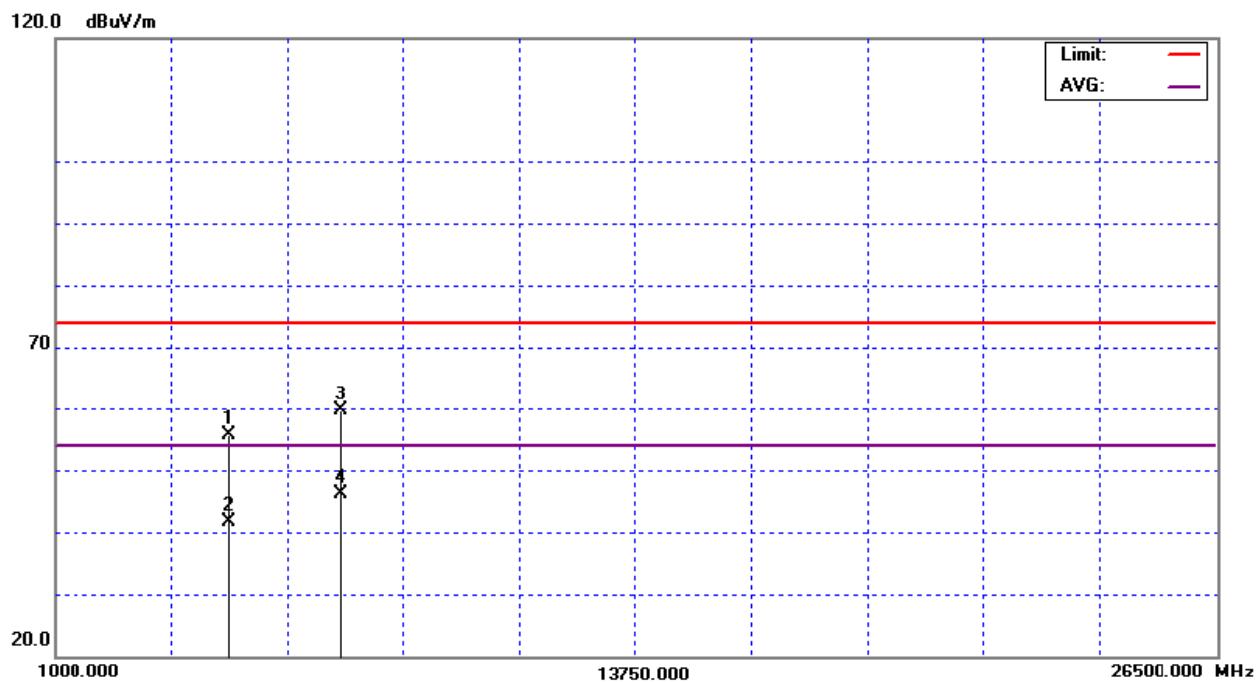
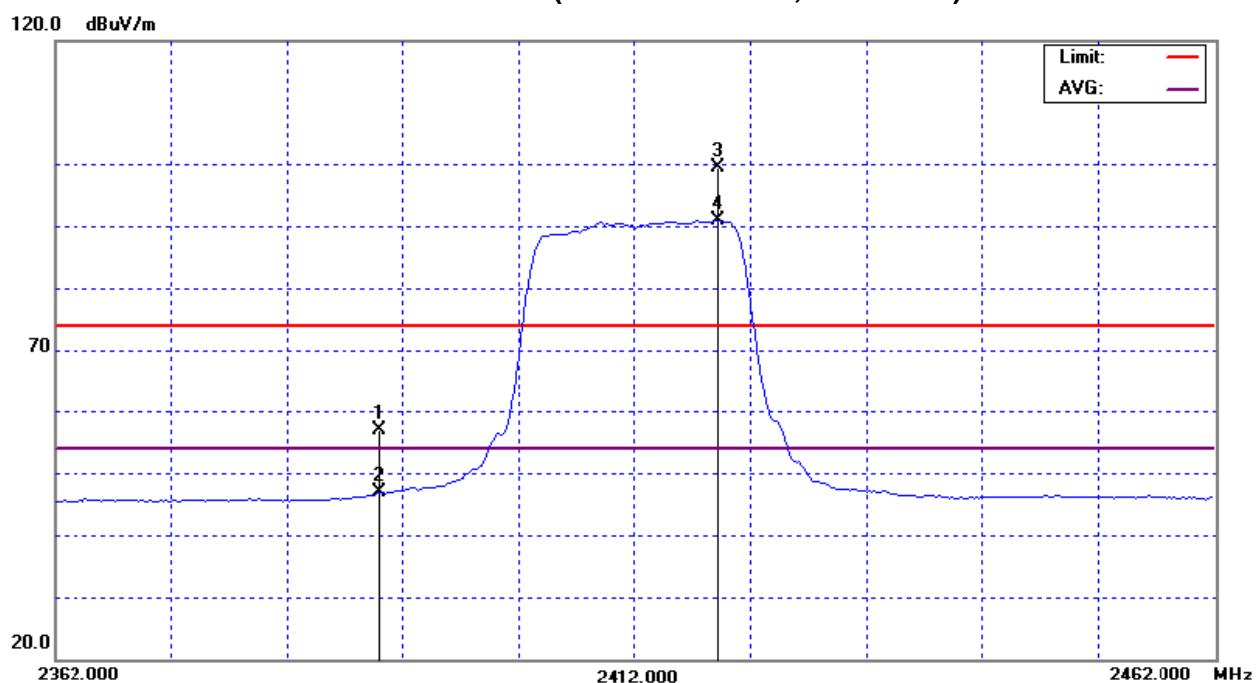
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11n/20M/CH01(Above 1000 MHz, Horizontal)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH06		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2440.20	V	84.20	75.06	32.86	117.06	107.92			X/F
4878.00	V	50.46	40.72	4.31	54.77	45.03	74.00	54.00	X/H
7315.60	V	49.36	38.90	11.87	61.23	50.77	74.00	54.00	X/H

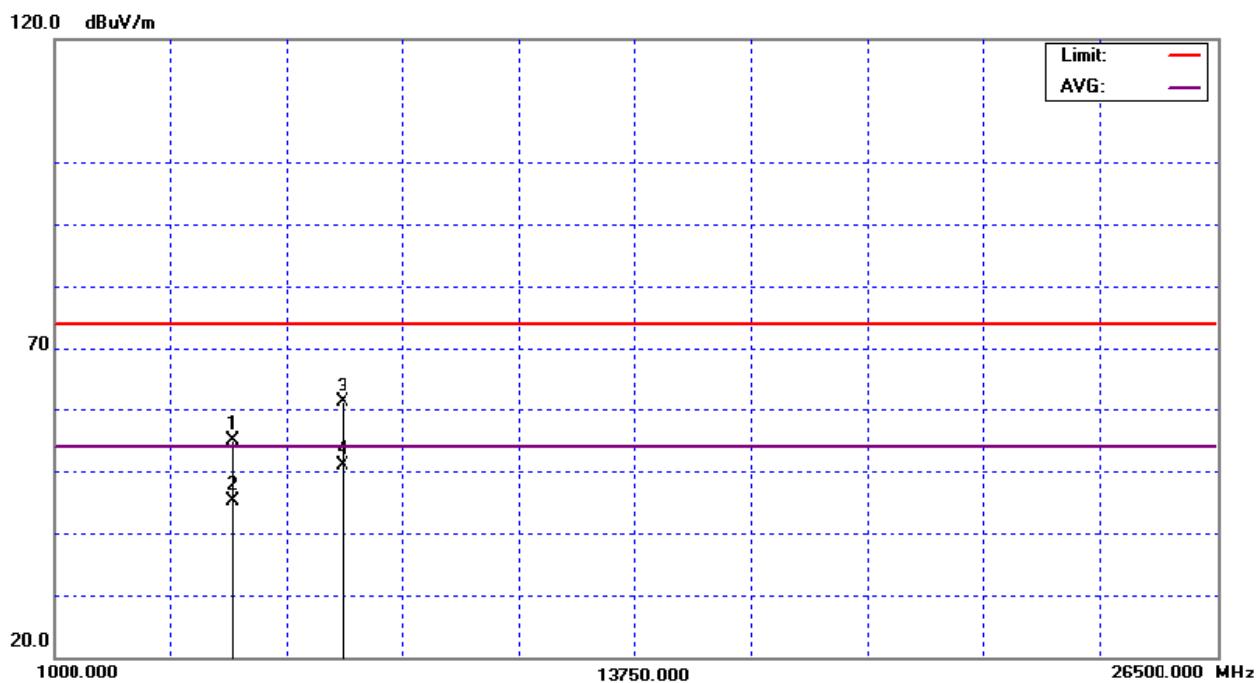
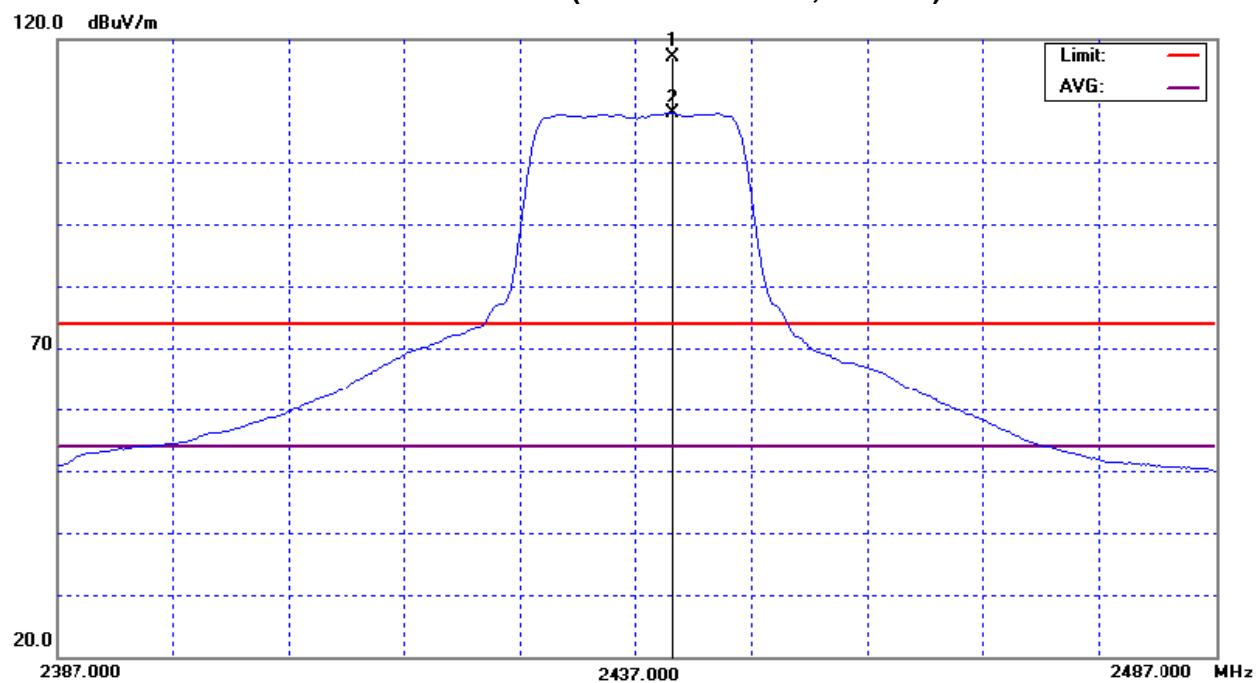
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11n/20M/CH06(Above 1000 MHz, Vertical)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH06		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2444.20	H	74.94	66.43	32.88	107.82	99.31			X/F
4878.00	H	52.40	41.88	4.31	56.71	46.19	74.00	54.00	X/H
7315.60	H	52.34	39.89	11.87	64.21	51.76	74.00	54.00	X/H

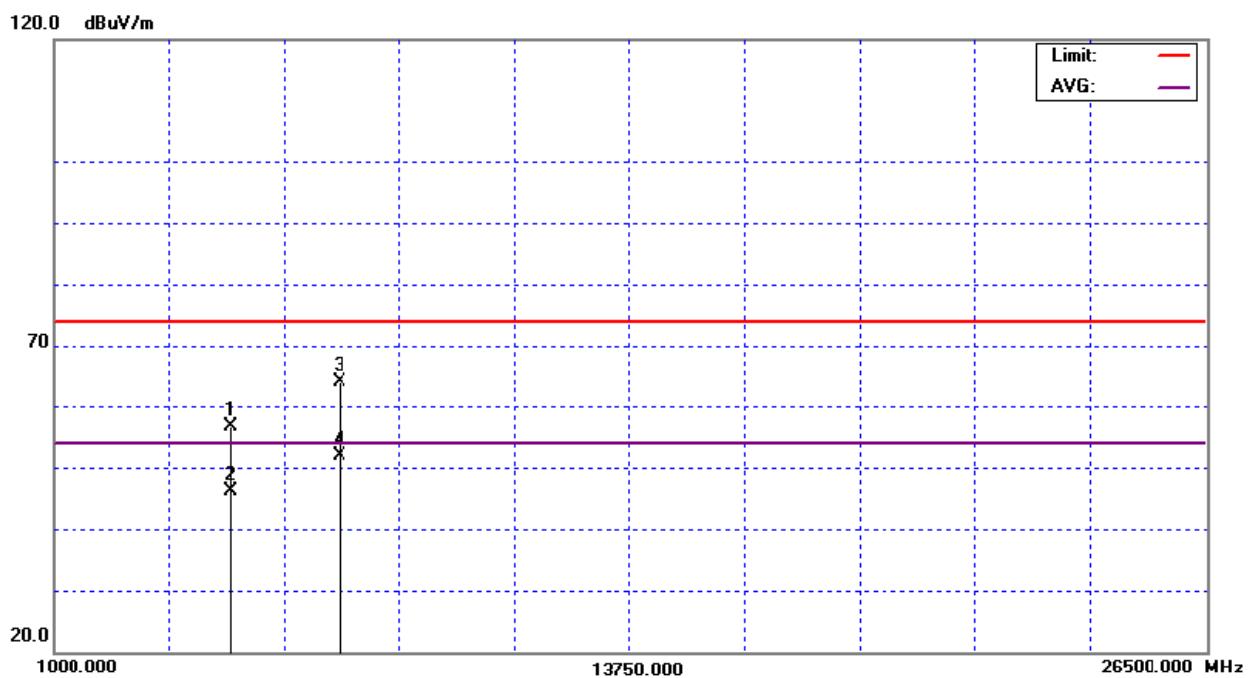
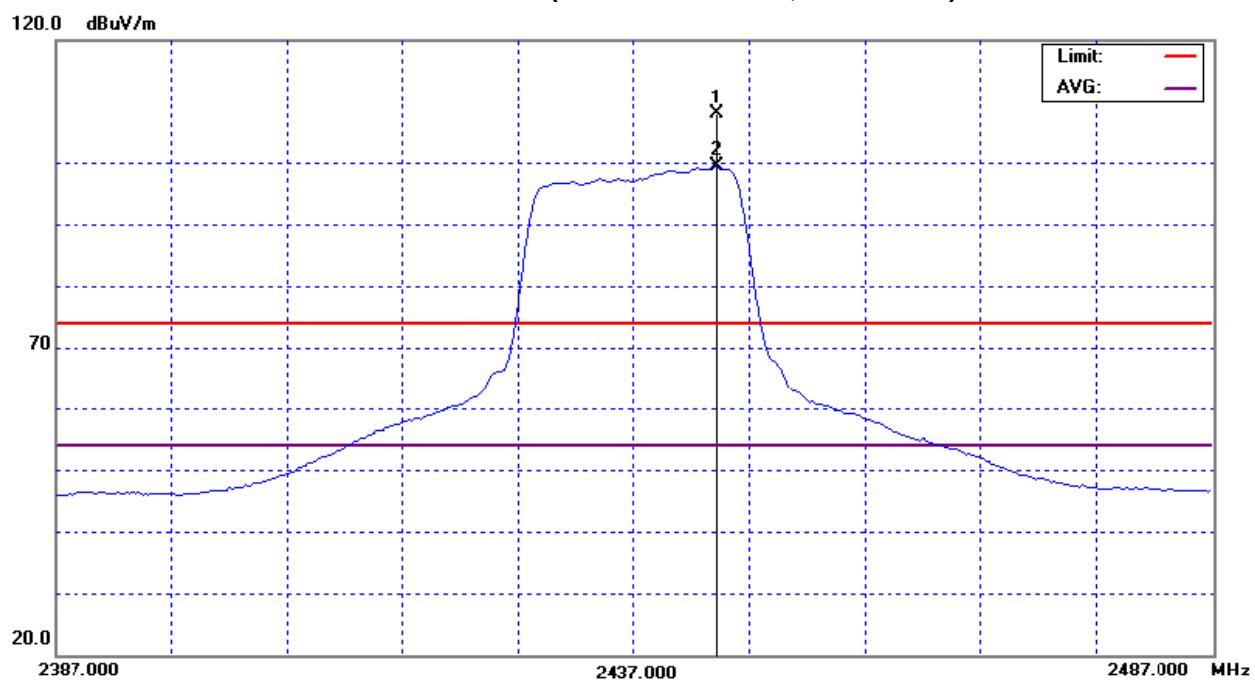
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X

802.11n/20M/CH06(Above 1000 MHz, Horizontal)





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH11		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2459.00	V	80.26	70.64	32.96	113.22	103.60			X/F
2483.50	V	35.89	20.45	33.10	68.99	53.55	74.00	54.00	X/H
4922.00	V	48.81	36.00	4.53	53.34	40.53	74.00	54.00	X/H
7384.80	V	46.28	33.67	12.06	58.34	45.73	74.00	54.00	X/H

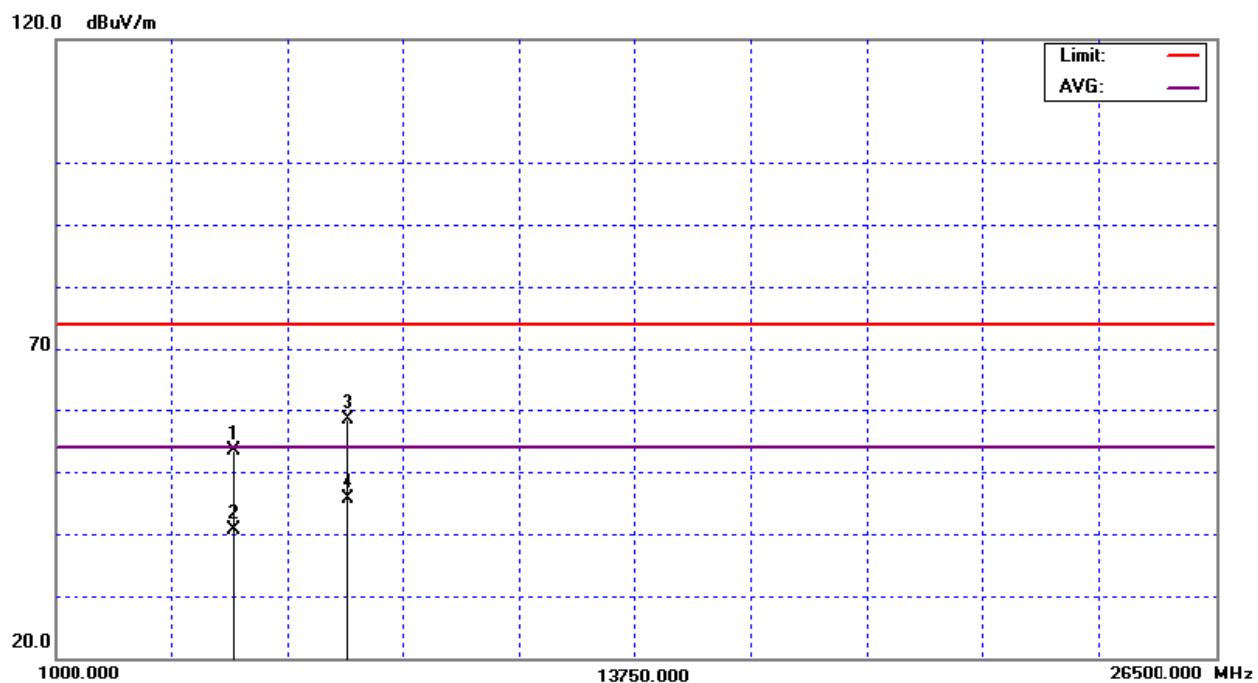
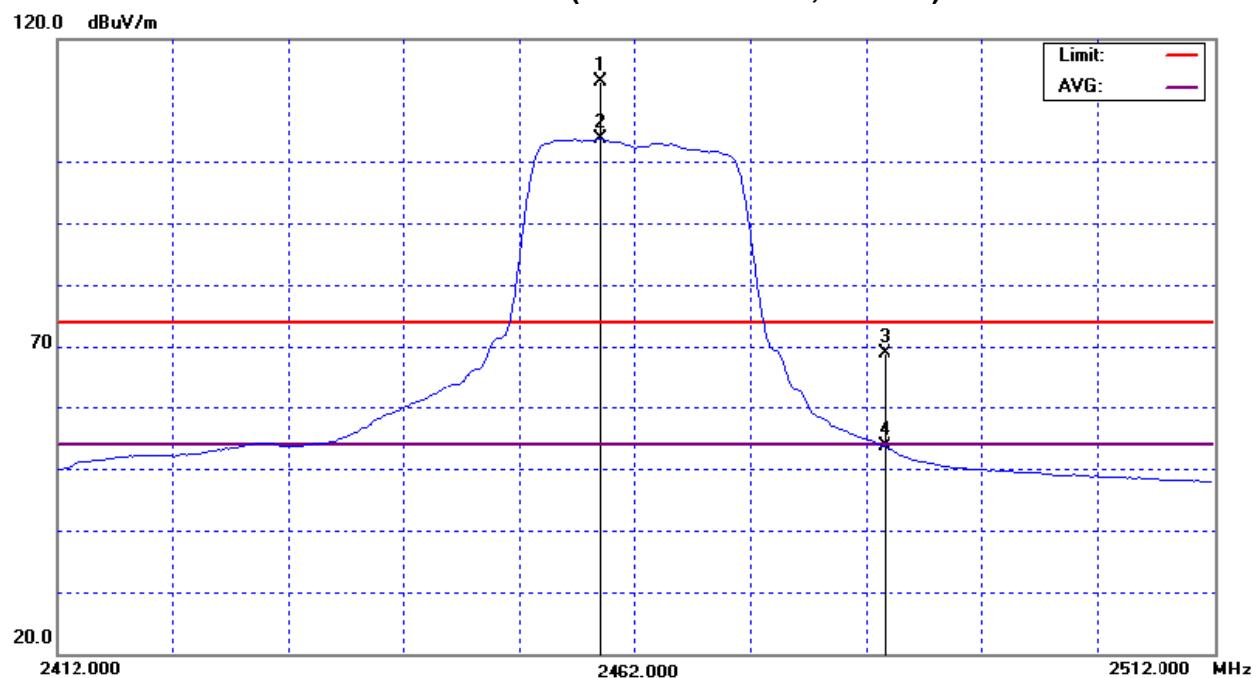
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11n/20M/CH11(Above 1000 MHz, Vertical)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH11		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2459.00	H	68.70	59.58	32.96	101.66	92.54			X/F
2483.50	H	27.90	14.86	33.10	61.00	47.96	74.00	54.00	X/H
4922.80	H	50.02	36.87	4.53	54.55	41.40	74.00	54.00	X/H
7390.20	H	47.54	34.24	12.07	59.61	46.31	74.00	54.00	X/H

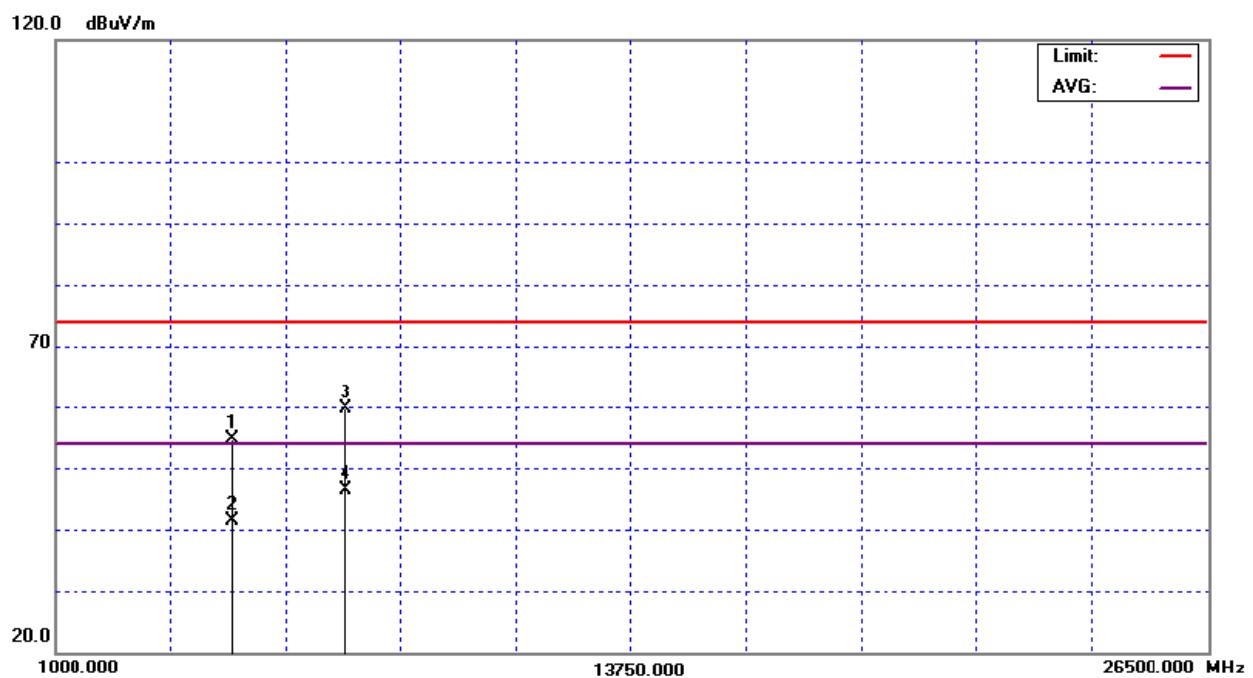
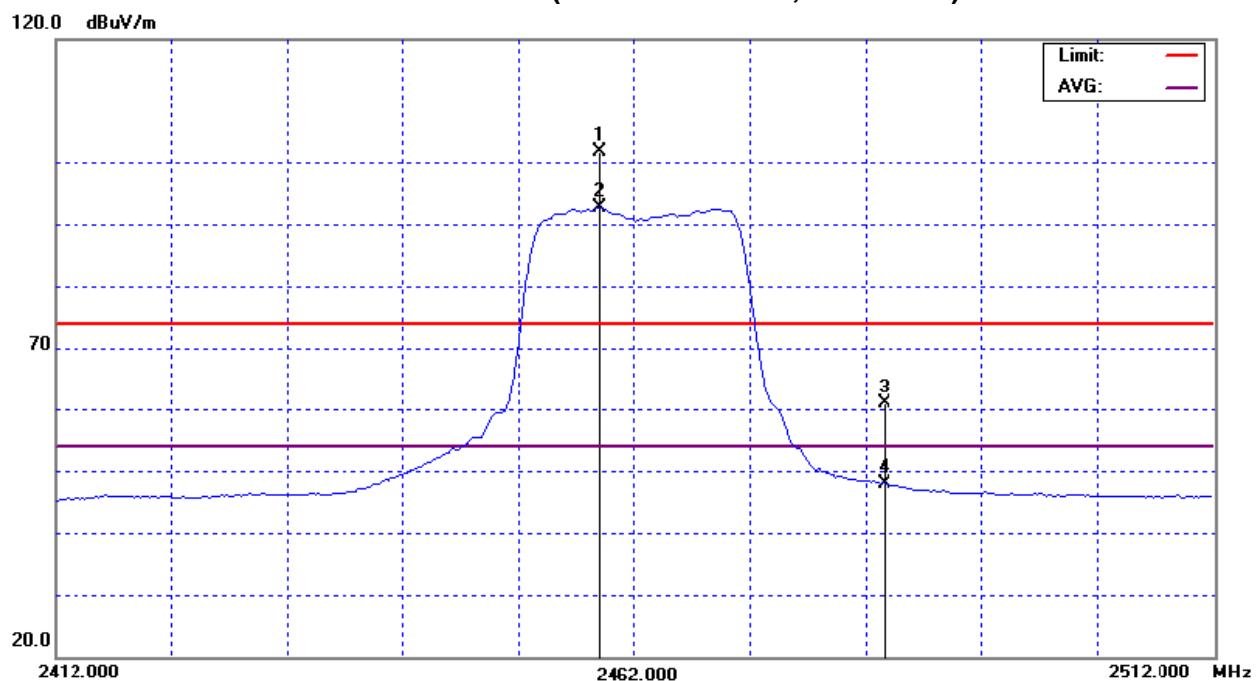
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11n/20M/CH11(Above 1000 MHz, Horizontal)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	33.27	20.91	32.57	65.84	53.48	74.00	54.00	X/H
2430.40	V	72.63	63.63	32.80	105.43	96.43			X/F
4842.20	V	42.56	30.80	4.13	46.69	34.93	74.00	54.00	X/H
7267.40	V	42.87	30.99	11.74	54.61	42.73	74.00	54.00	X/H

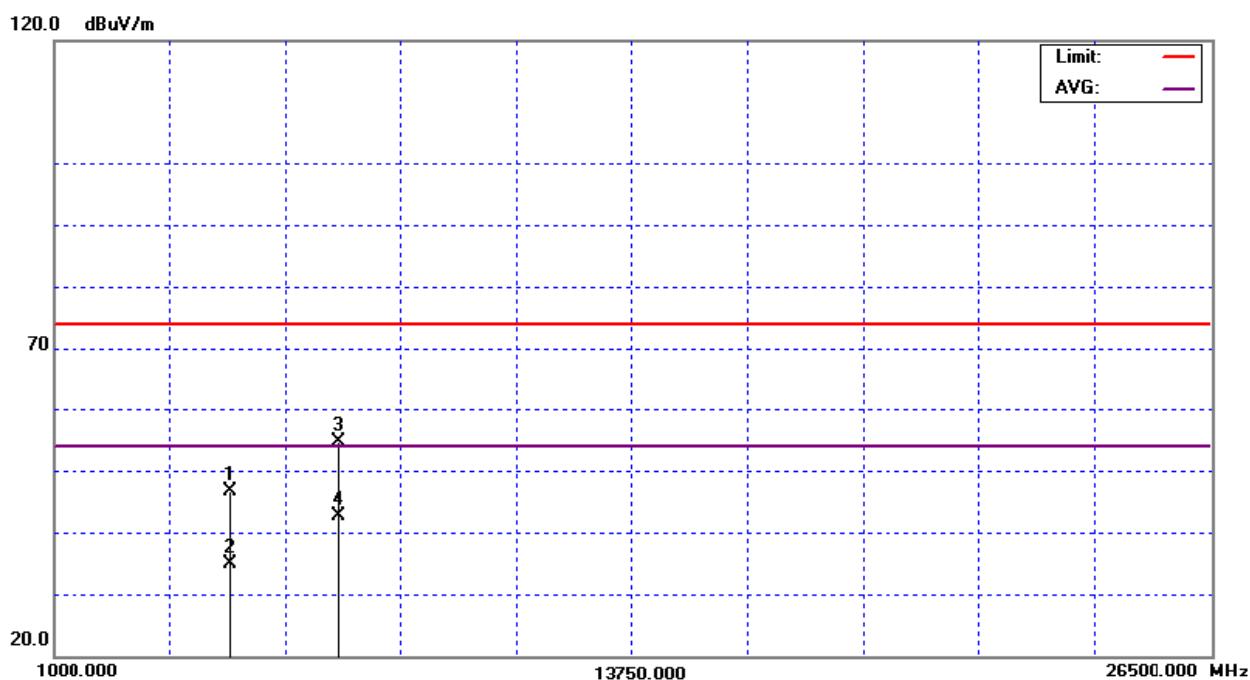
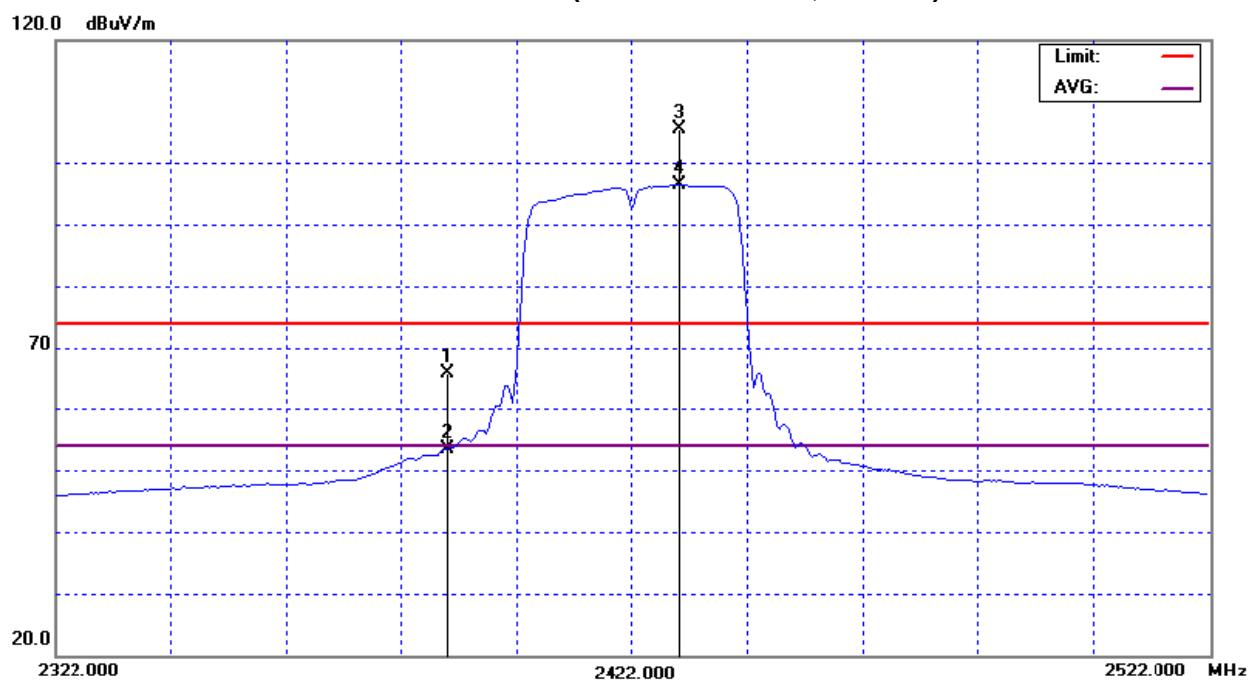
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X

802.11n/40M/CH03(Above 1000 MHz, Vertical)





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	24.11	14.19	32.57	56.68	46.76	74.00	54.00	X/H
2437.60	H	62.81	53.30	32.84	95.65	86.14			X/F
4845.20	H	44.29	32.61	4.15	48.44	36.76	74.00	54.00	X/H
7265.20	H	43.12	31.40	11.74	54.86	43.14	74.00	54.00	X/H

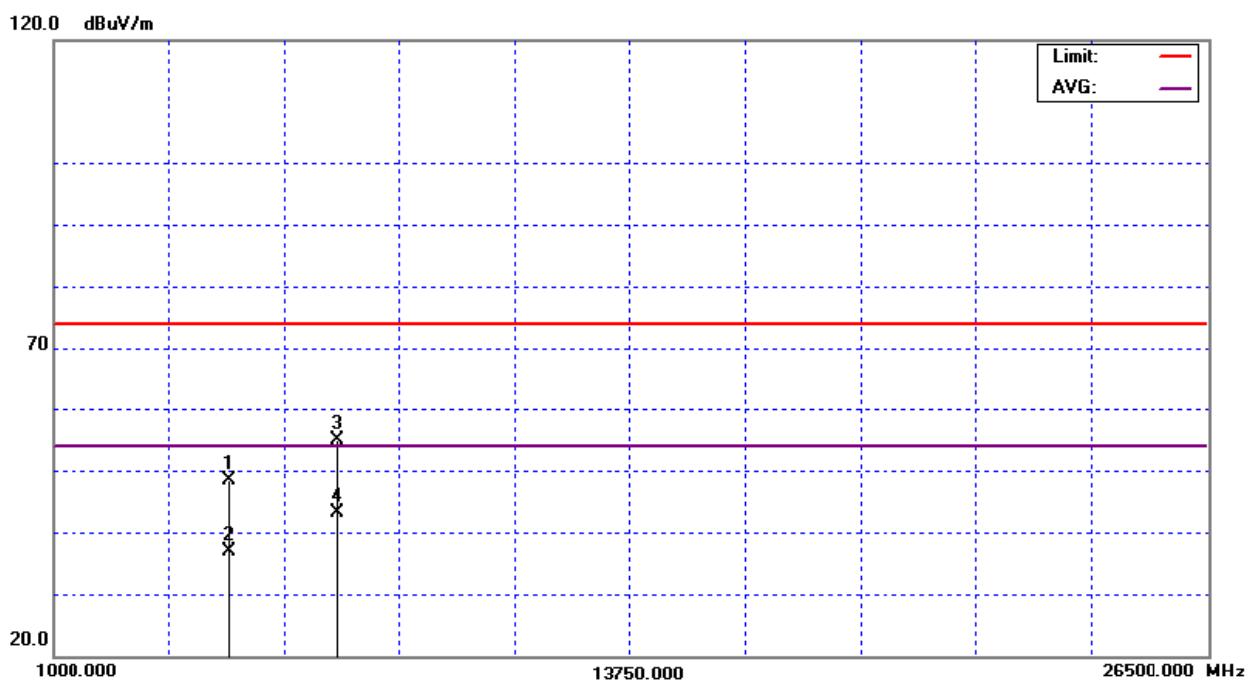
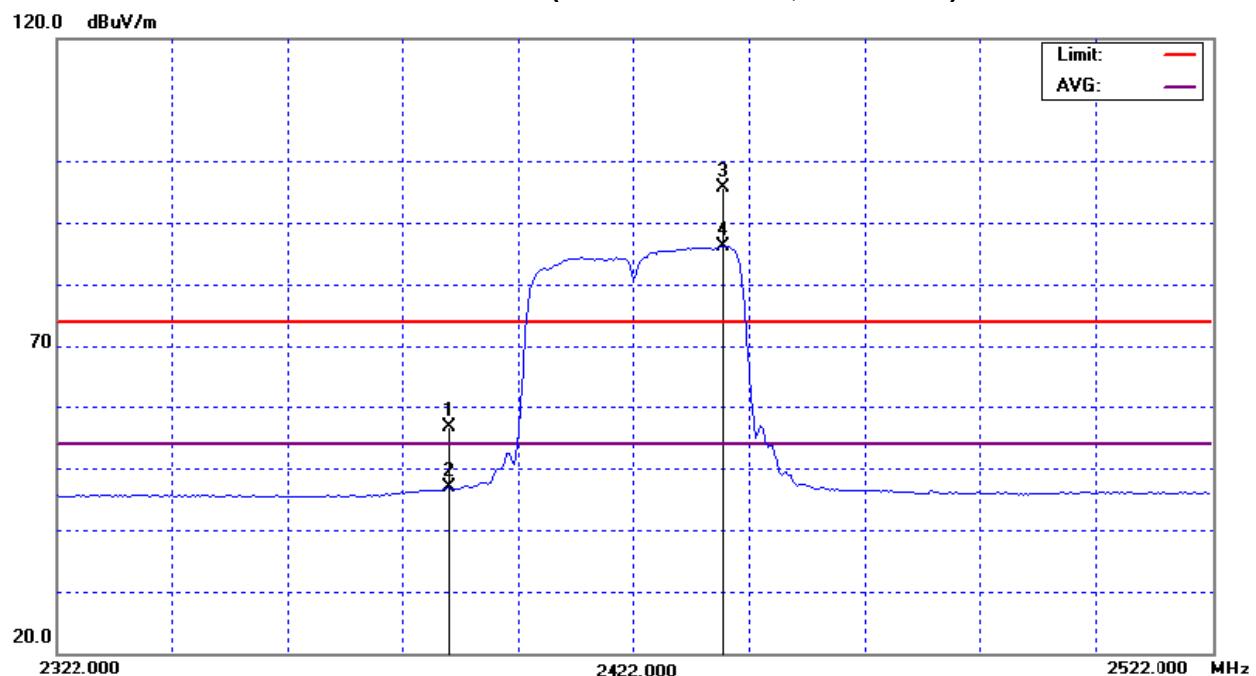
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ◦
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11n/40M/CH03(Above 1000 MHz, Horizontal)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH06		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2433.80	V	76.87	68.14	32.82	109.69	100.96			X/F
4872.80	V	46.04	34.87	4.28	50.32	39.15	74.00	54.00	X/H
7301.80	V	43.49	31.67	11.83	55.32	43.50	74.00	54.00	X/H

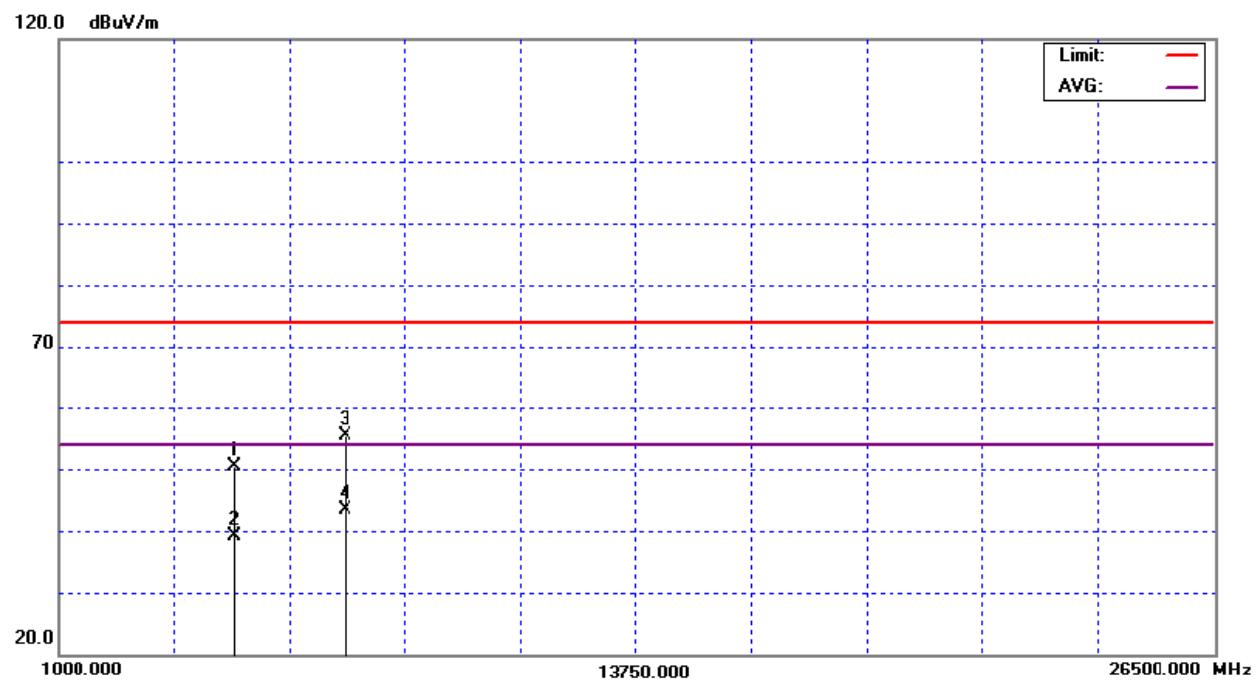
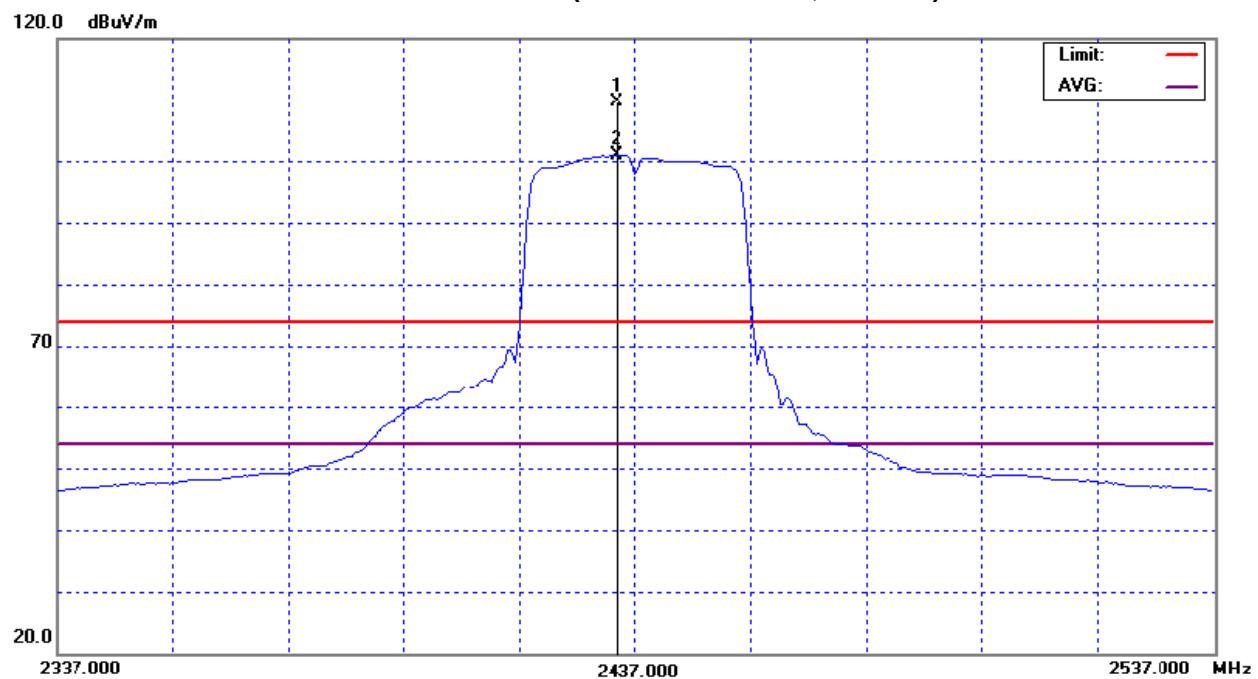
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11n/40M/CH06(Above 1000 MHz, Vertical)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH06		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2441.00	H	65.05	56.46	32.86	97.91	89.32			X/F
4874.40	H	46.87	35.36	4.29	51.16	39.65	74.00	54.00	X/H
7321.40	H	44.57	32.57	11.88	56.45	44.45	74.00	54.00	X/H

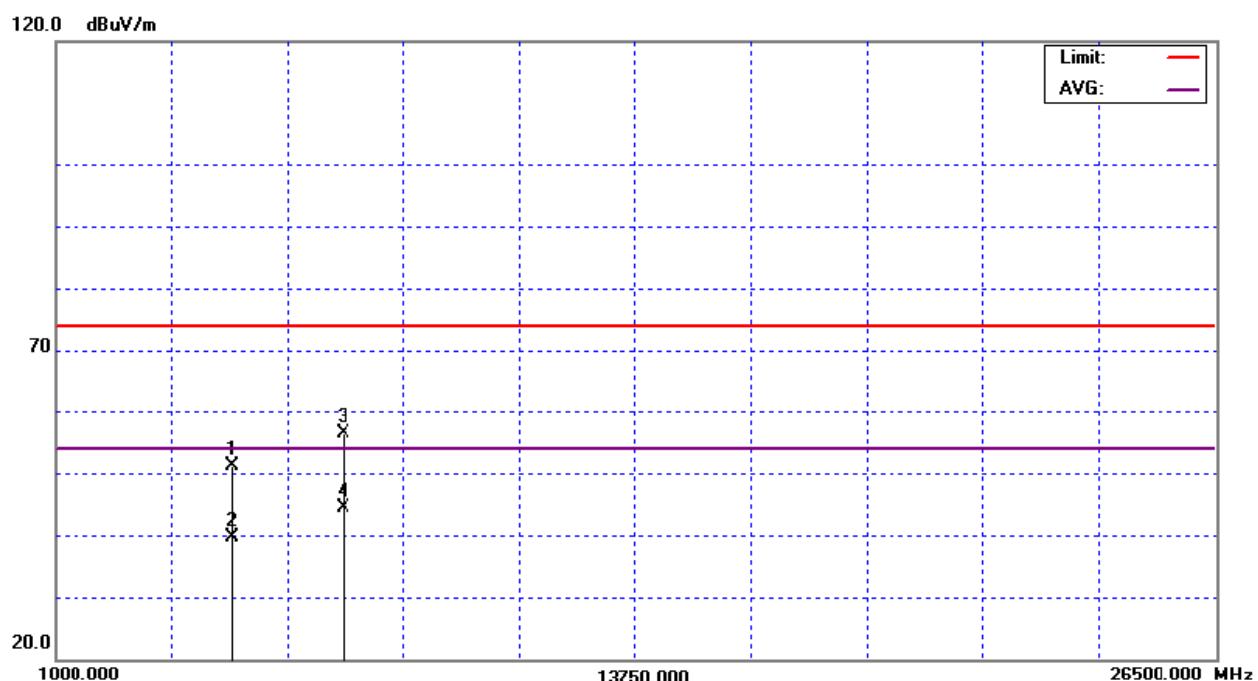
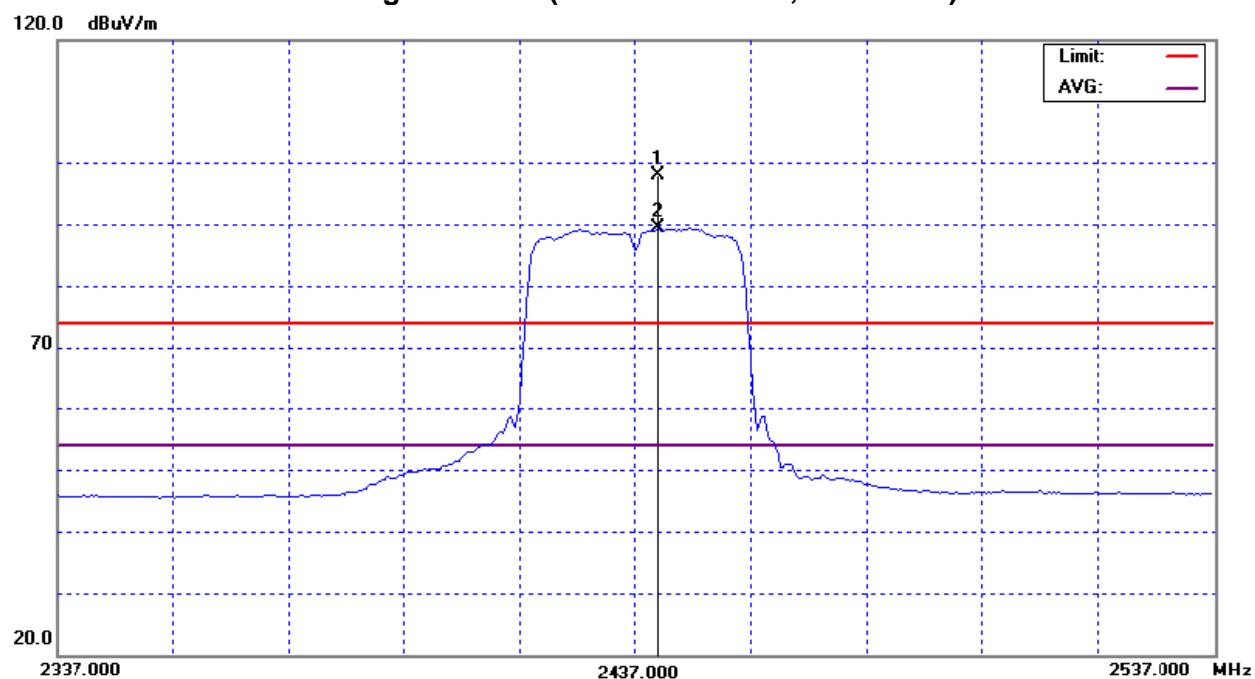
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



Orthogonal Axis : X

802.11g/40M/CH06(Above 1000 MHz, Horizontal)





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH09		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2436.40	V	76.13	67.43	32.83	108.96	100.26			X/F
2483.50	V	32.25	20.59	33.10	65.35	53.69	74.00	54.00	X/H
4909.20	V	45.87	34.88	4.46	50.33	39.34	74.00	54.00	X/H
7352.80	V	45.46	32.58	11.97	57.43	44.55	74.00	54.00	X/H

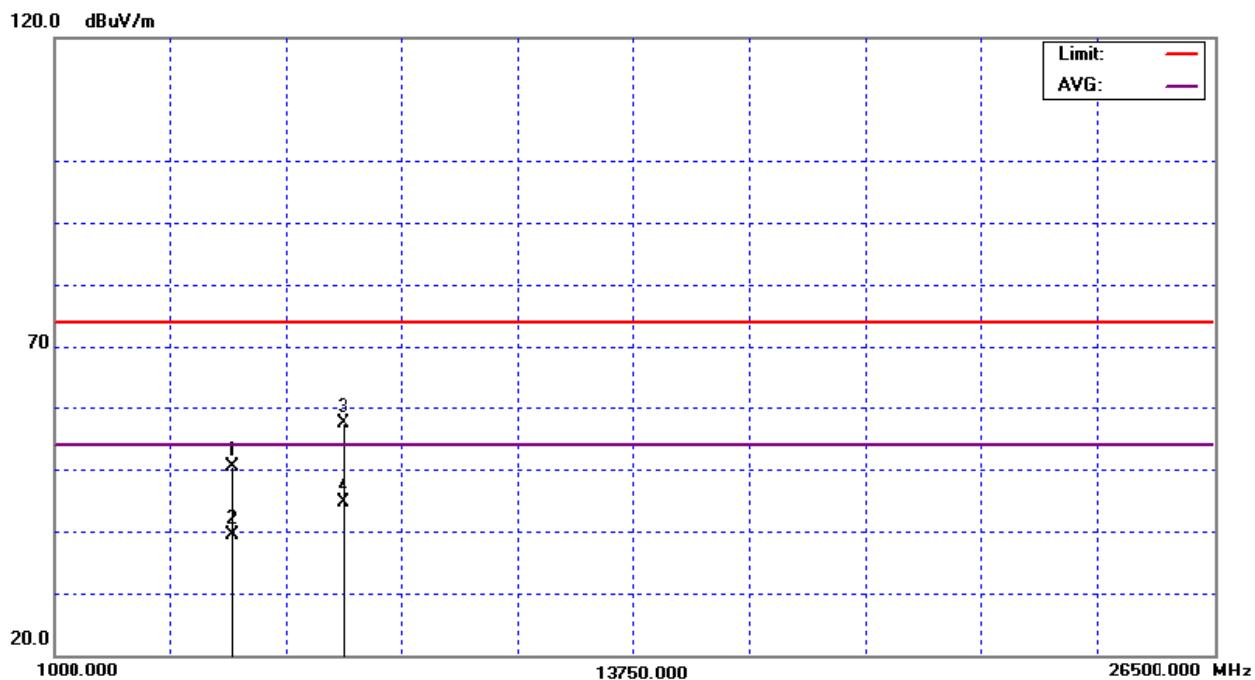
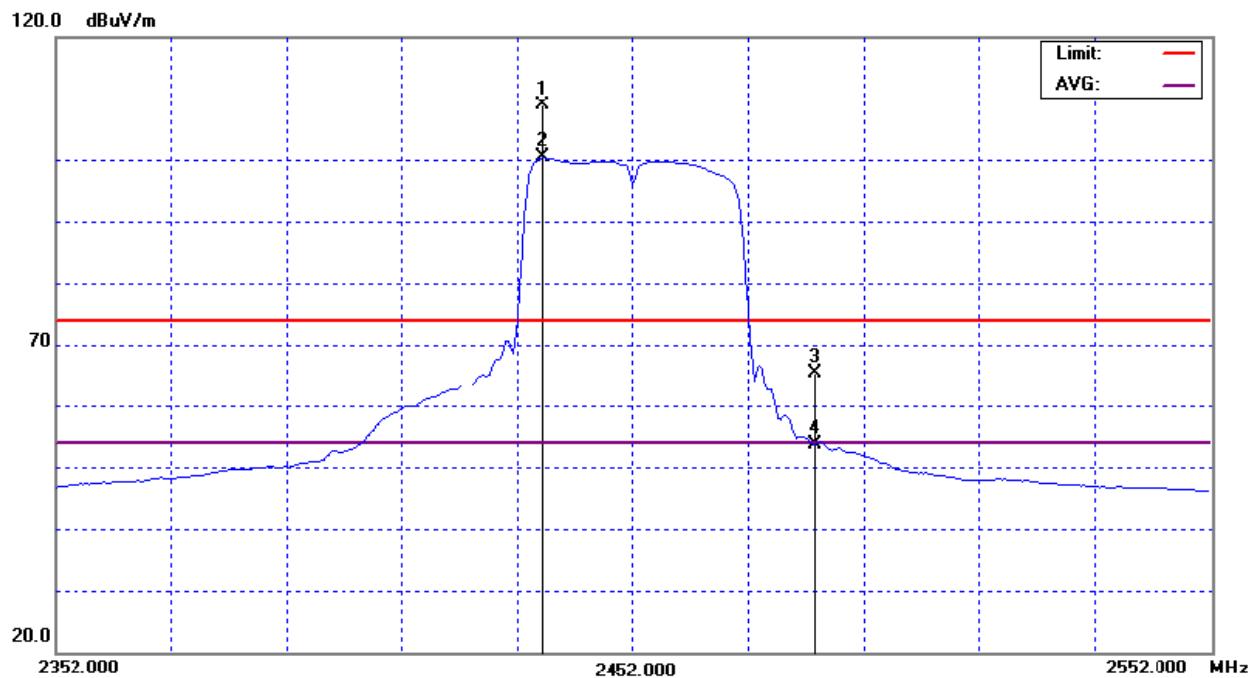
**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11g/40M/CH09(Above 1000 MHz, Vertical)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH09		

Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2447.60	H	63.70	55.42	32.90	96.60	88.32			X/F
2483.50	H	26.93	15.18	33.10	60.03	48.28	74.00	54.00	X/H
4904.20	H	46.73	35.39	4.44	51.17	39.83	74.00	54.00	X/H
7346.40	H	46.25	33.87	11.95	58.20	45.82	74.00	54.00	X/H

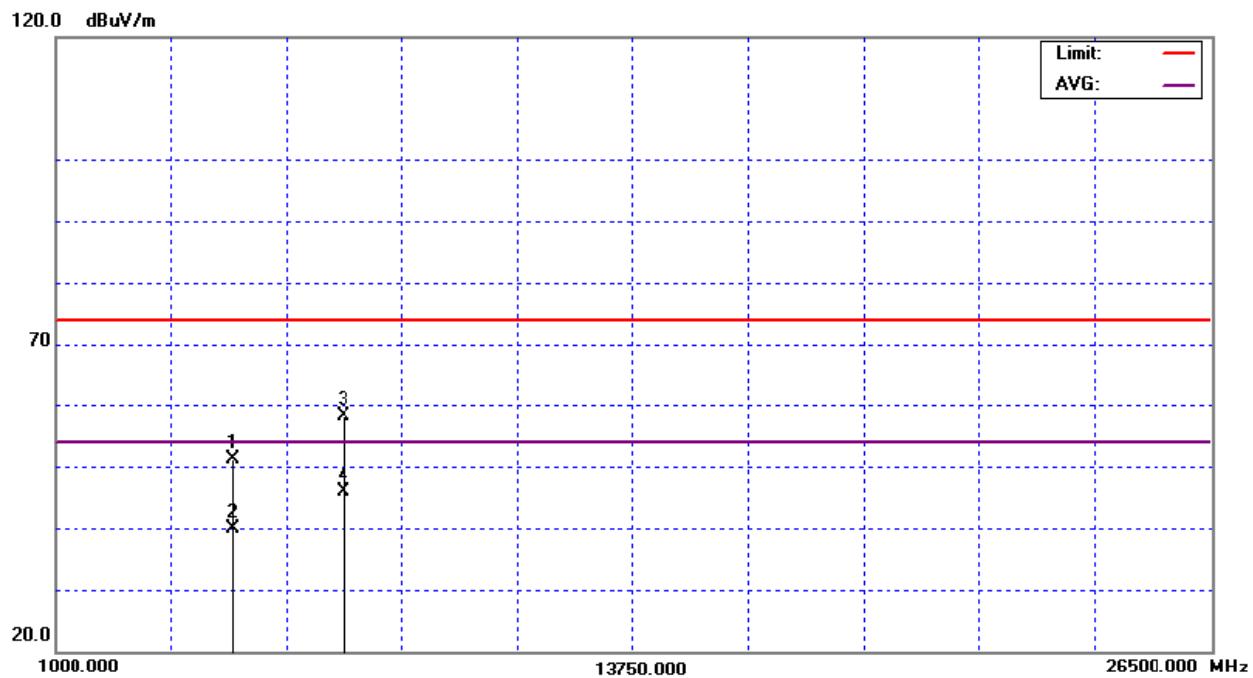
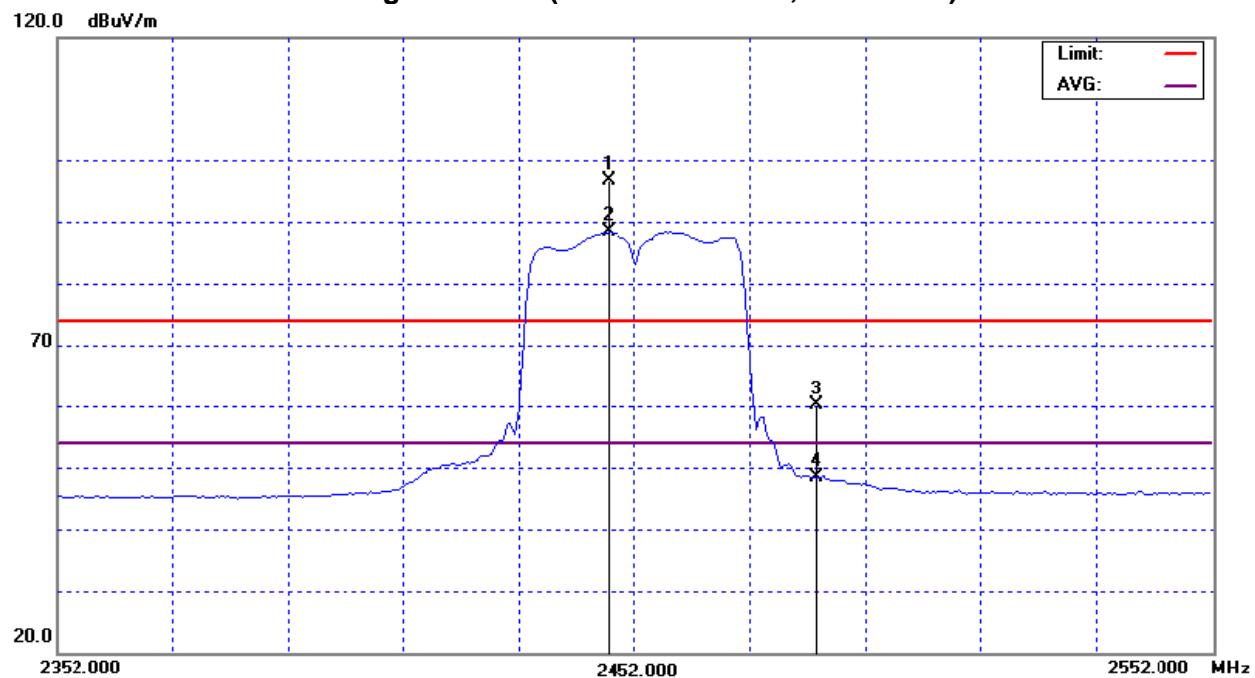
Remark :

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) All readings are Peak unless otherwise stated QP in column of 『Note』 . Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform .
- (3) Measuring frequency range from 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.)
- (4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (5) 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.
- (6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (7) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand
- (8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.



**Orthogonal Axis : X**

**802.11g/40M/CH09(Above 1000 MHz, Horizontal)**



**4.2.9 TEST RESULTS-RESTRICTED BANDS REQUIREMENTS**

EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b(Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"><li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.</li><li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.</li></ol>		

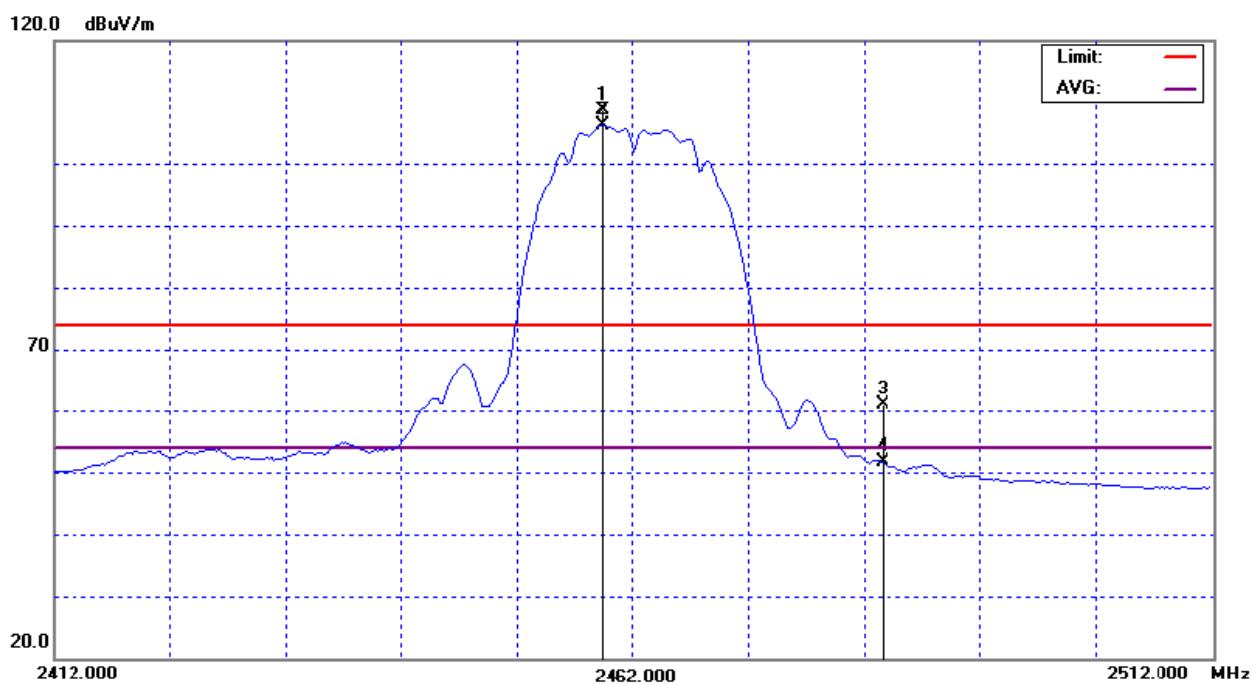
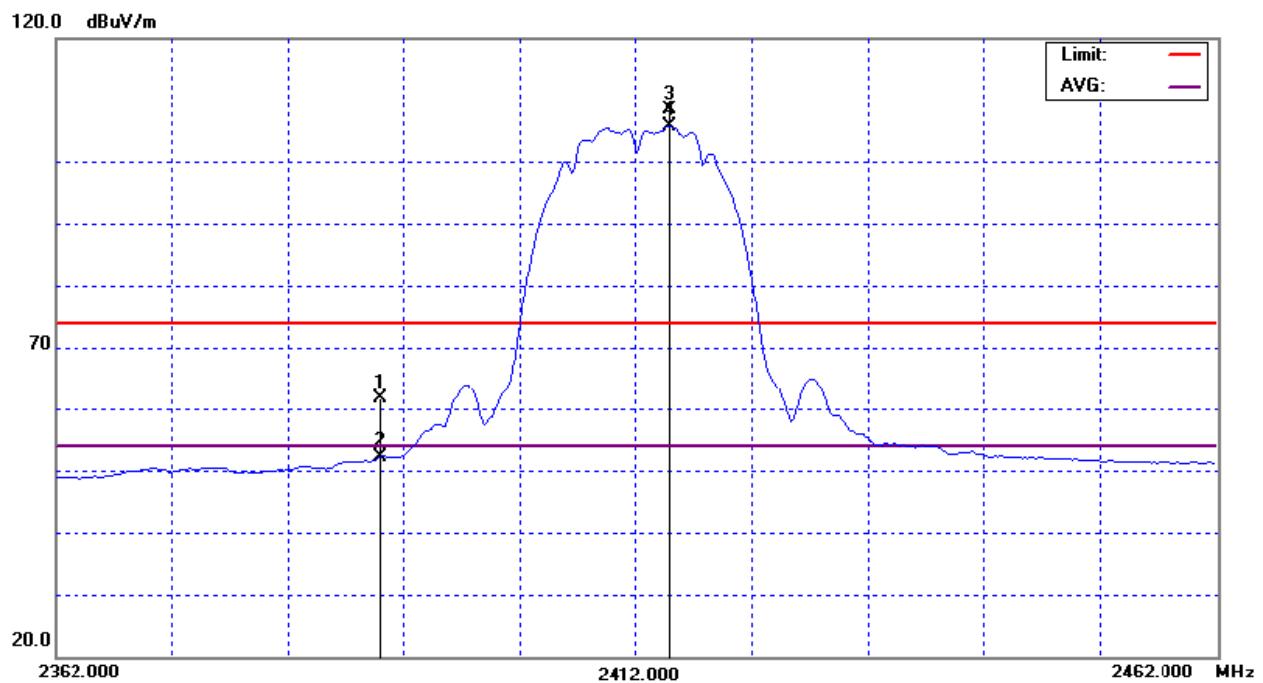
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	29.18	19.52	32.57	61.75	52.09	74.00	54.00	X
2483.50	V	27.88	18.52	33.10	60.98	51.62	74.00	54.00	X

**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission °
- (3) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



**802.11b (Restricted Bands Requirements, Vertical)**





EUT :	Giga NAS Landisk		Model No. :	PX-WNAS500L			
Temperature :	11 °C		Relative Humidity :		88%		
Test Voltage :	AC 120V/60Hz						
Test Mode :	802.11b(Horizontal)						
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"><li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.</li><li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.</li></ol>						

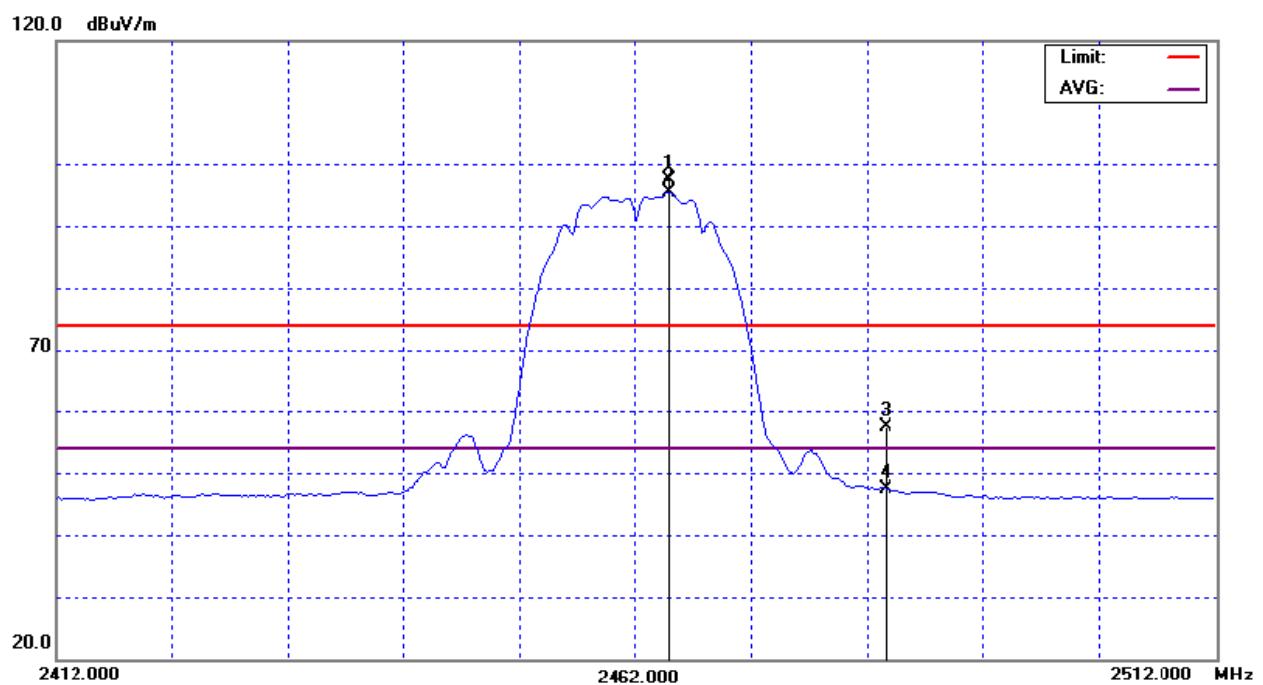
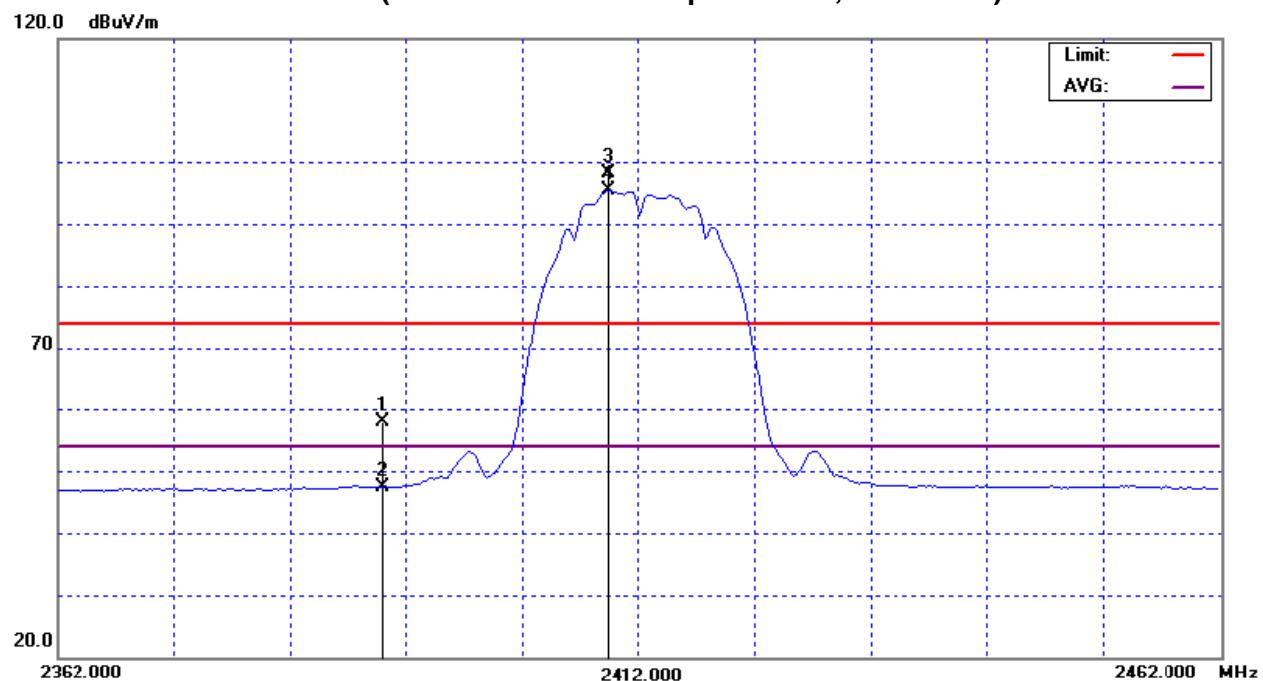
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	25.30	14.93	32.57	57.87	47.50	74.00	54.00	X
2483.50	H	24.36	14.24	33.10	57.46	47.34	74.00	54.00	X

**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand



**802.11b (Restricted Bands Requirements, Horizontal)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g(Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"><li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.</li><li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.</li></ol>		

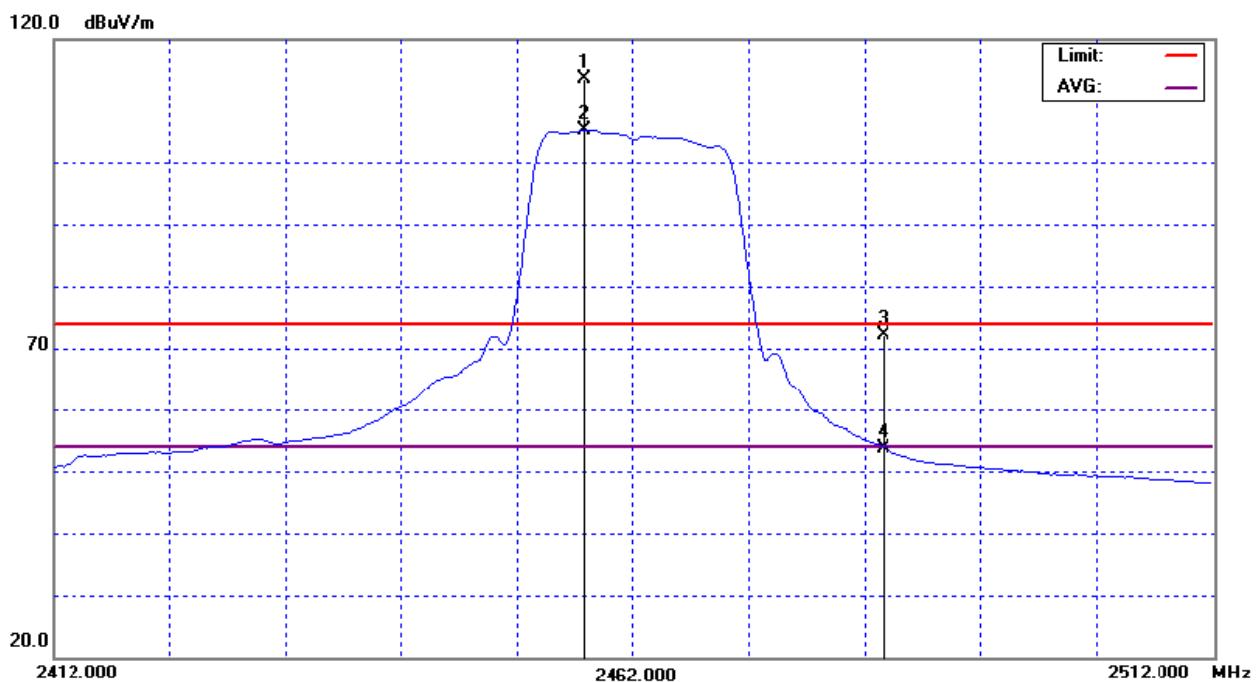
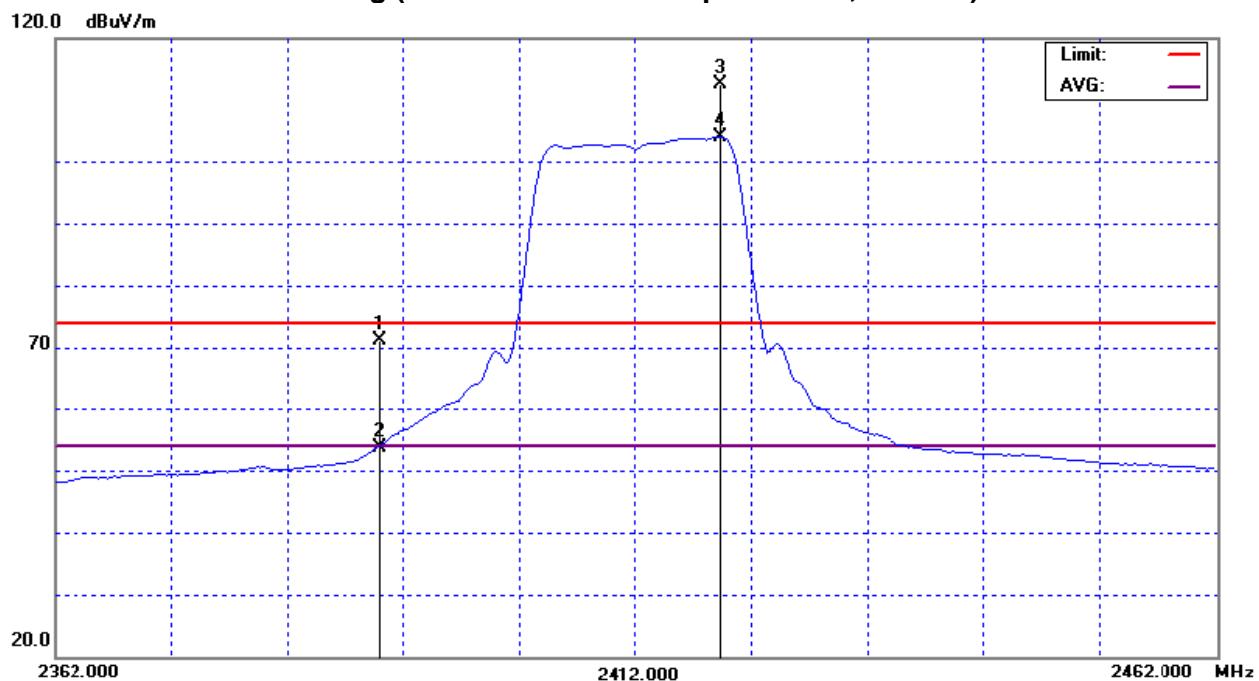
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	38.63	21.13	32.57	71.20	53.70	74.00	54.00	X
2483.50	V	38.91	20.57	33.10	72.01	53.67	74.00	54.00	X

**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



**802.11g (Restricted Bands Requirements, Vertical)**





EUT :	Giga NAS Landisk		Model No. :	PX-WNAS500L			
Temperature :	11 °C		Relative Humidity :		88%		
Test Voltage :	AC 120V/60Hz						
Test Mode :	802.11g(Horizontal)						
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"><li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.</li><li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.</li></ol>						

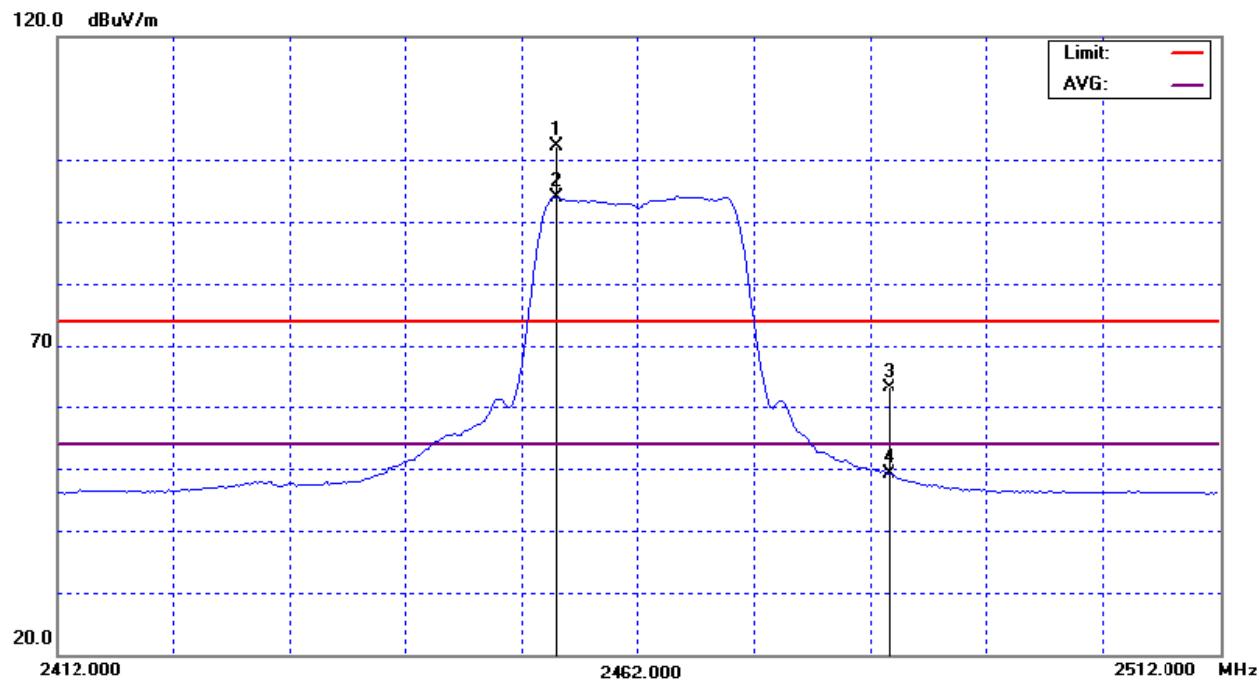
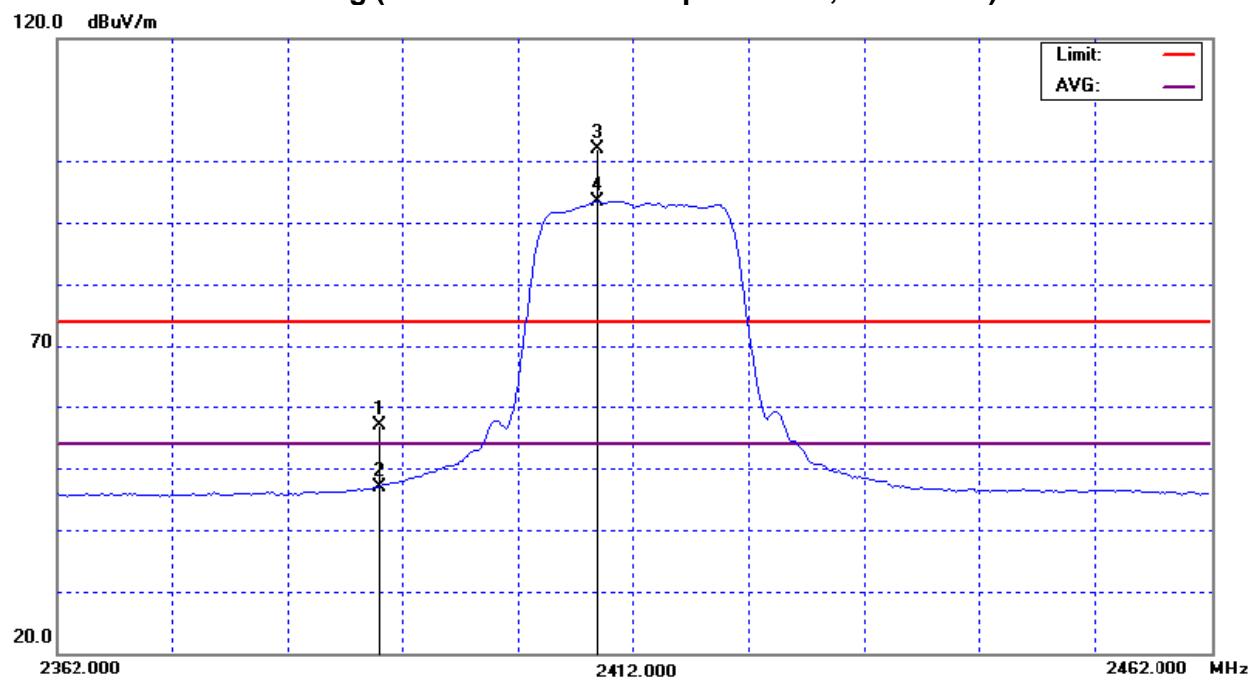
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	24.37	14.43	32.57	56.94	47.00	74.00	54.00	X
2483.50	H	29.93	16.15	33.10	63.03	49.25	74.00	54.00	X

**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand



**802.11g (Restricted Bands Requirements, Horizontal)**





EUT :	Giga NAS Landisk		Model No. :	PX-WNAS500L			
Temperature :	11 °C		Relative Humidity :	88%			
Test Voltage :	AC 120V/60Hz						
Test Mode :	802.11n/20M(Vertical)						
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"><li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.</li><li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.</li></ol>						

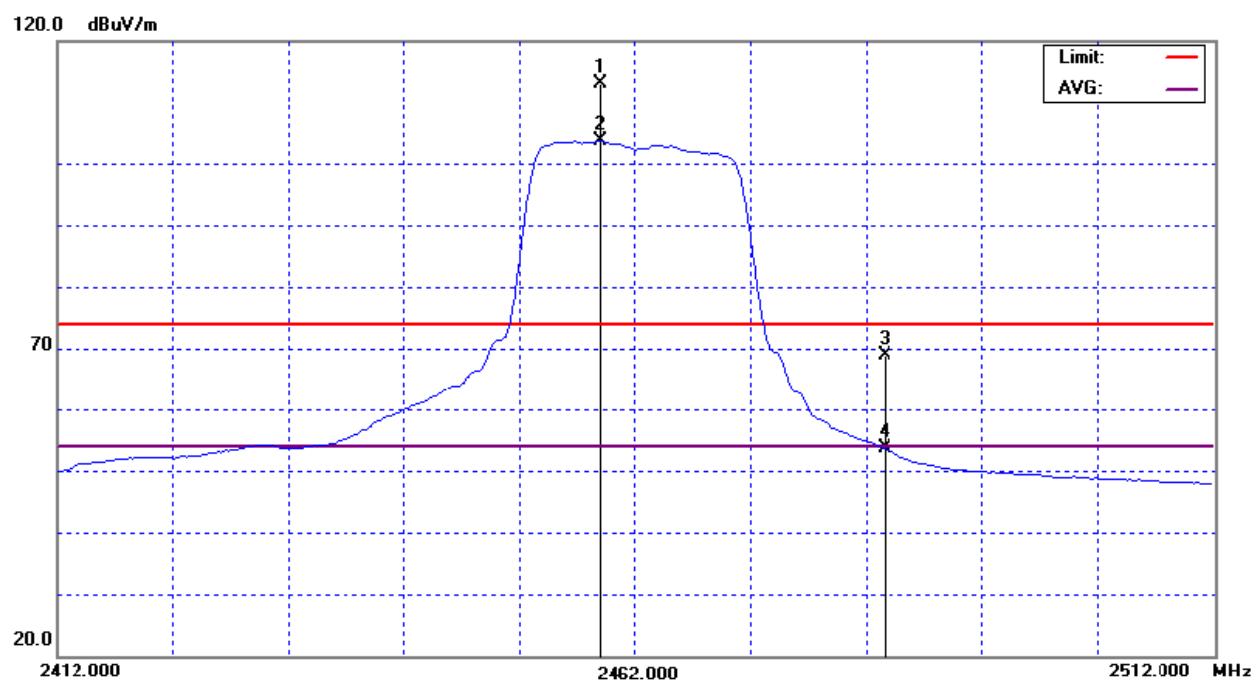
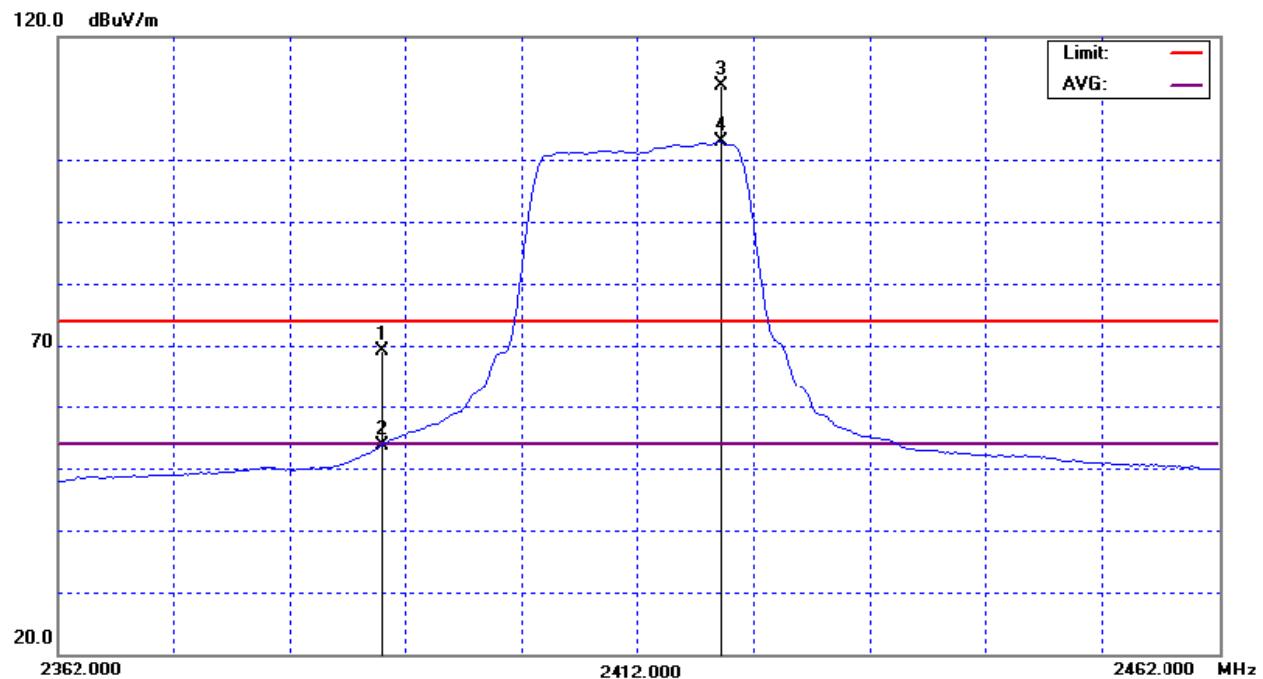
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	36.66	21.12	32.57	69.23	53.69	74.00	54.00	X
2483.50	V	35.89	20.45	33.10	68.99	53.55	74.00	54.00	X

**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand



**802.11n/20M (Restricted Bands Requirements, Vertical)**





EUT :	Giga NAS Landisk		Model No. :	PX-WNAS500L			
Temperature :	11 °C		Relative Humidity :		88%		
Test Voltage :	AC 120V/60Hz						
Test Mode :	802.11n/20M(Horizontal)						
Note :	<p>The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following:</p> <ol style="list-style-type: none"><li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH01). Then the field strength was measured at 2310-2390 MHz.</li><li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH11). Then the field strength was measured at 2483.5-2500 MHz.</li></ol>						

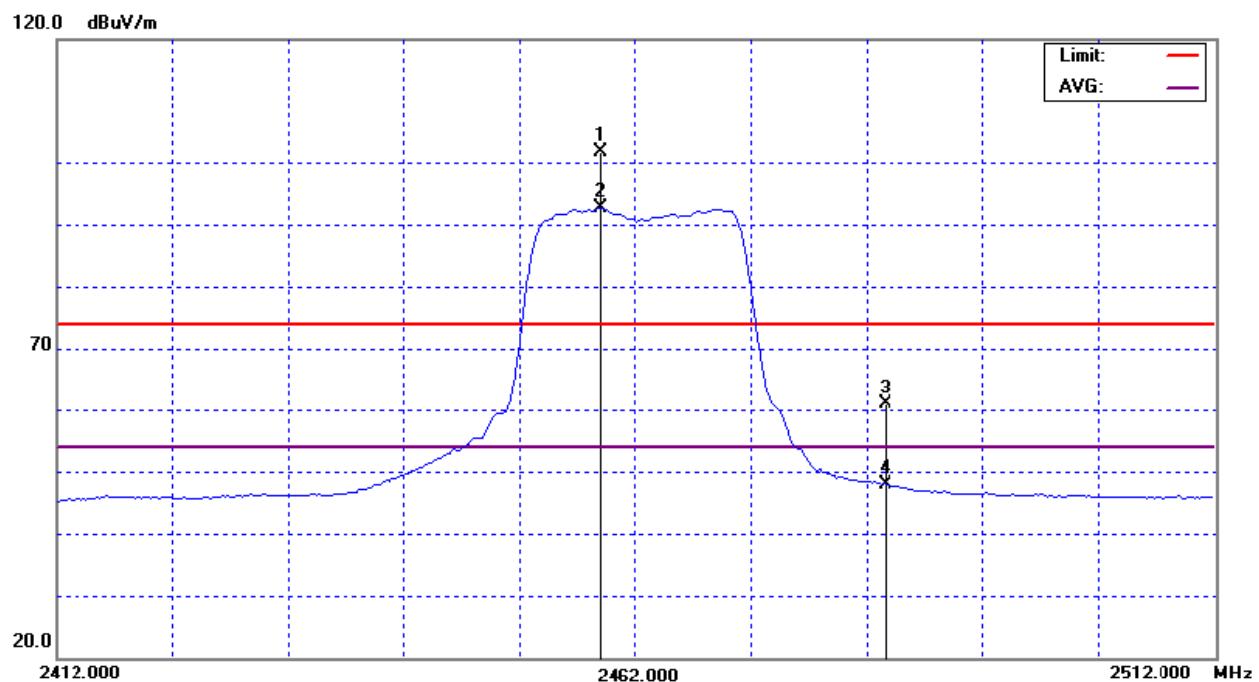
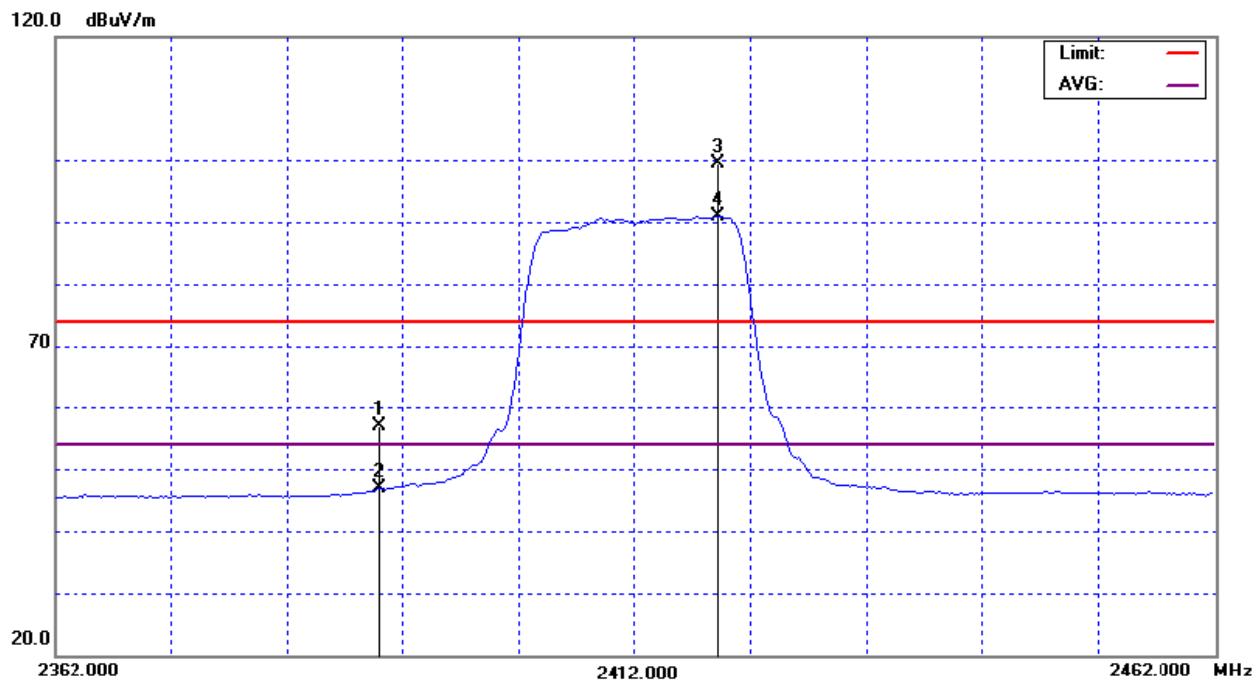
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	24.34	14.26	32.57	56.91	46.83	74.00	54.00	X
2483.50	H	27.90	14.86	33.10	61.00	47.96	74.00	54.00	X

**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand



**802.11n/20M (Restricted Bands Requirements, Horizontal)**





EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	11 °C	Relative Humidity :	88%
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M(Vertical)		
Note :	<p>The emission of the carrier radiated field strength is measured for CH03/CH09 (Peak and AV) as following:</p> <ol style="list-style-type: none"><li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH03). Then the field strength was measured at 2310-2390 MHz.</li><li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH09). Then the field strength was measured at 2483.5-2500 MHz.</li></ol>		

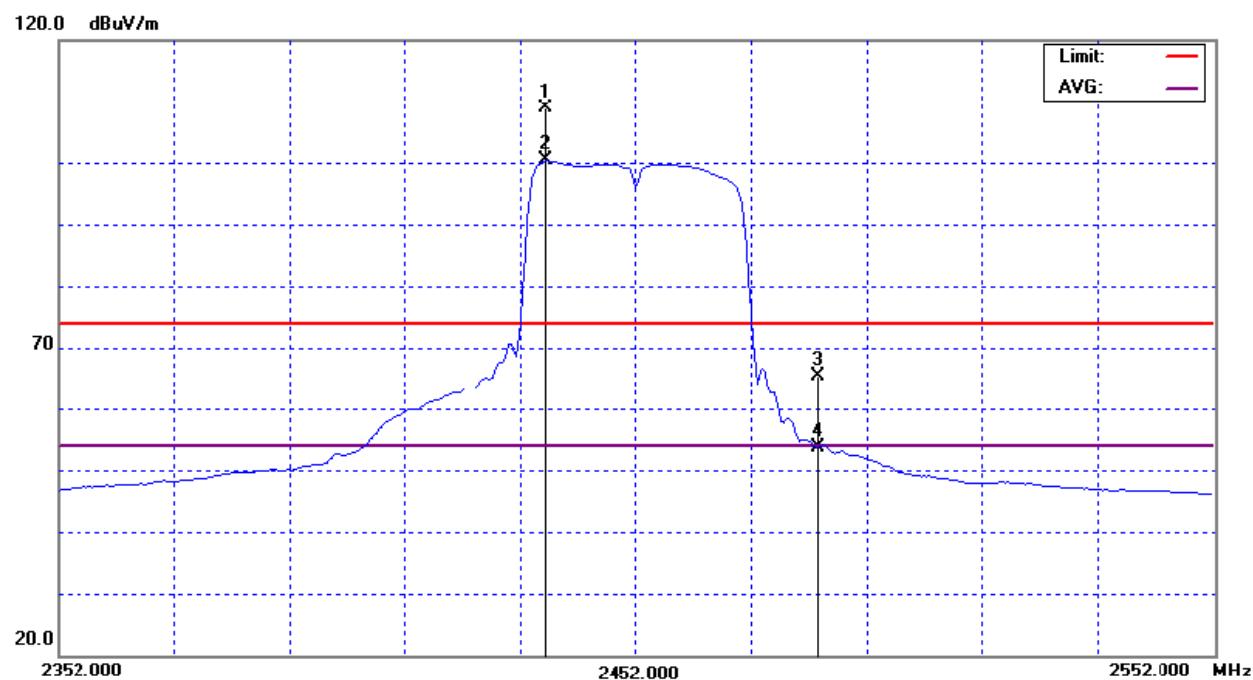
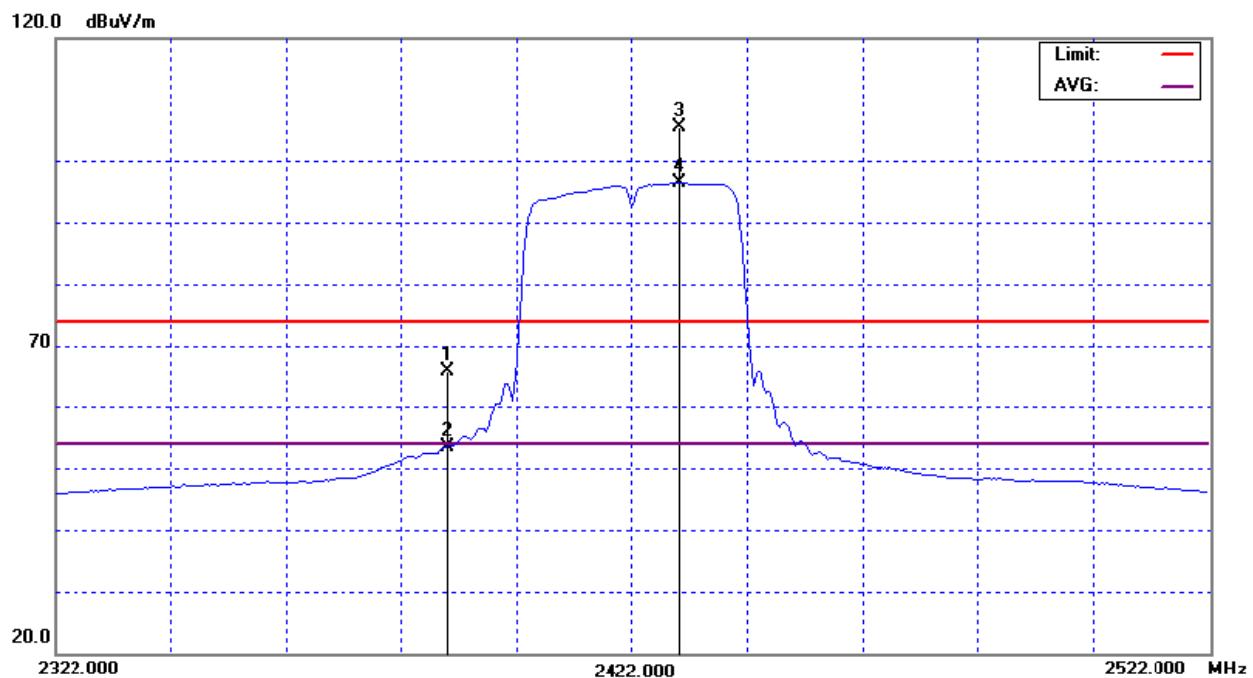
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	33.27	20.91	32.57	65.84	53.48	74.00	54.00	X
2483.50	V	32.25	20.59	33.10	65.35	53.69	74.00	54.00	X

**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission °
- (3) EUT Orthogonal Axes :  
"X" - denotes Laid on Table ; "Y" - denotes Vertical Stand ; "Z" - denotes Side Stand



**802.11n/40M (Restricted Bands Requirements, Vertical)**





EUT :	Giga NAS Landisk		Model No. :	PX-WNAS500L			
Temperature :	11 °C		Relative Humidity :		88%		
Test Voltage :	AC 120V/60Hz						
Test Mode :	802.11n/40M(Horizontal)						
Note :	<p>The emission of the carrier radiated field strength is measured for CH03/CH09 (Peak and AV) as following:</p> <ol style="list-style-type: none"><li>1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH03). Then the field strength was measured at 2310-2390 MHz.</li><li>2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH09). Then the field strength was measured at 2483.5-2500 MHz.</li></ol>						

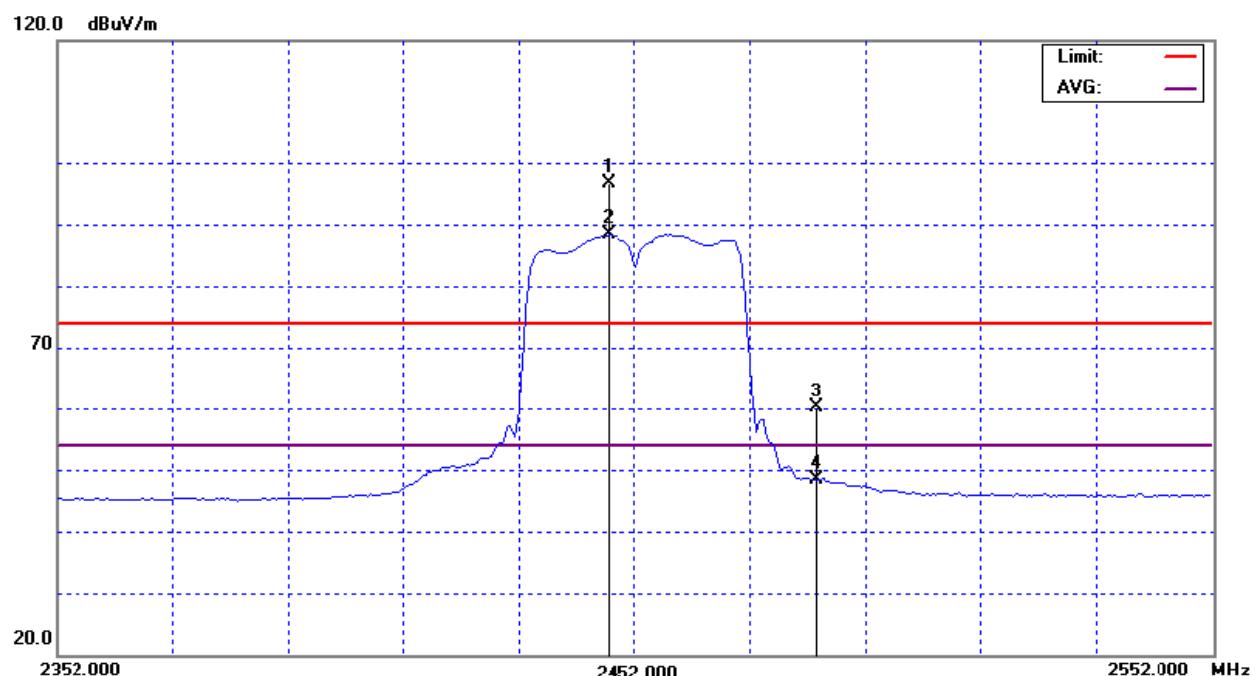
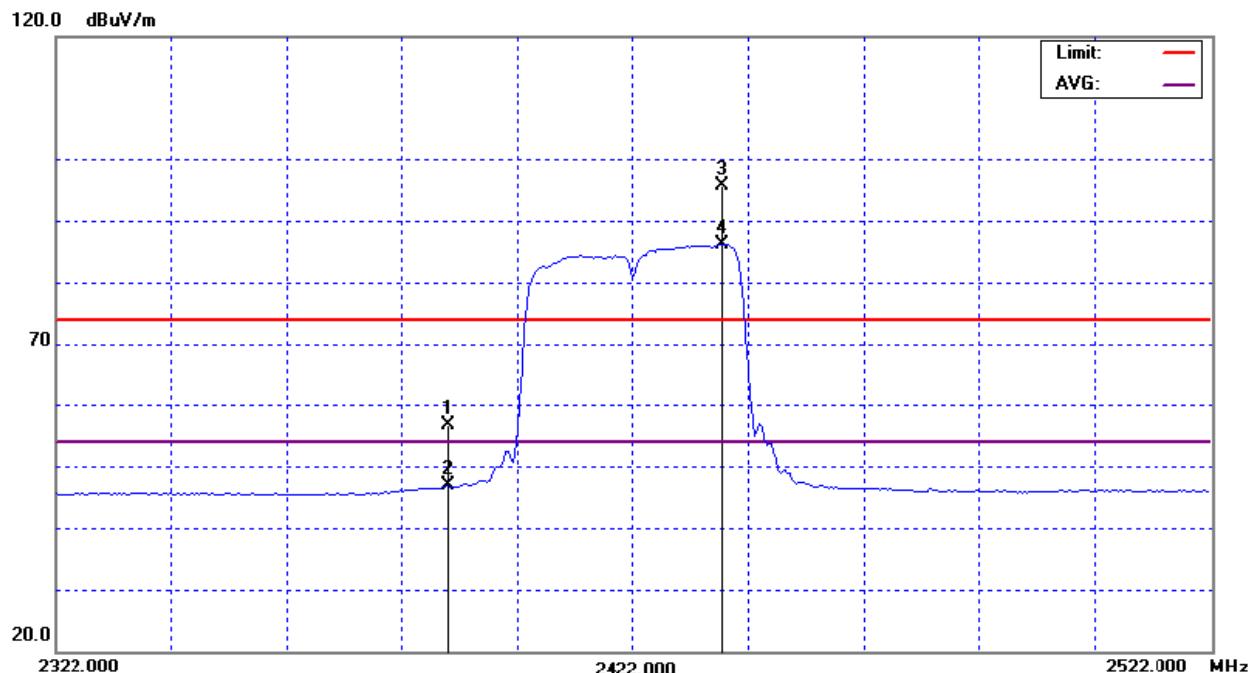
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	24.11	14.19	32.57	56.68	46.76	74.00	54.00	X
2483.50	H	26.93	15.18	33.10	60.03	48.28	74.00	54.00	X

**Remark :**

- (1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto
- (2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦
- (3) EUT Orthogonal Axes :  
“X” - denotes Laid on Table ; “Y” - denotes Vertical Stand ; “Z” - denotes Side Stand



**802.11n/40M (Restricted Bands Requirements, Horizontal)**





## 5. BANDWITH TEST

### 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C			
Test Item	Limit	Frequency Range (MHz)	Result
Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

#### 5.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 14, 2009

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

#### 5.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- 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.

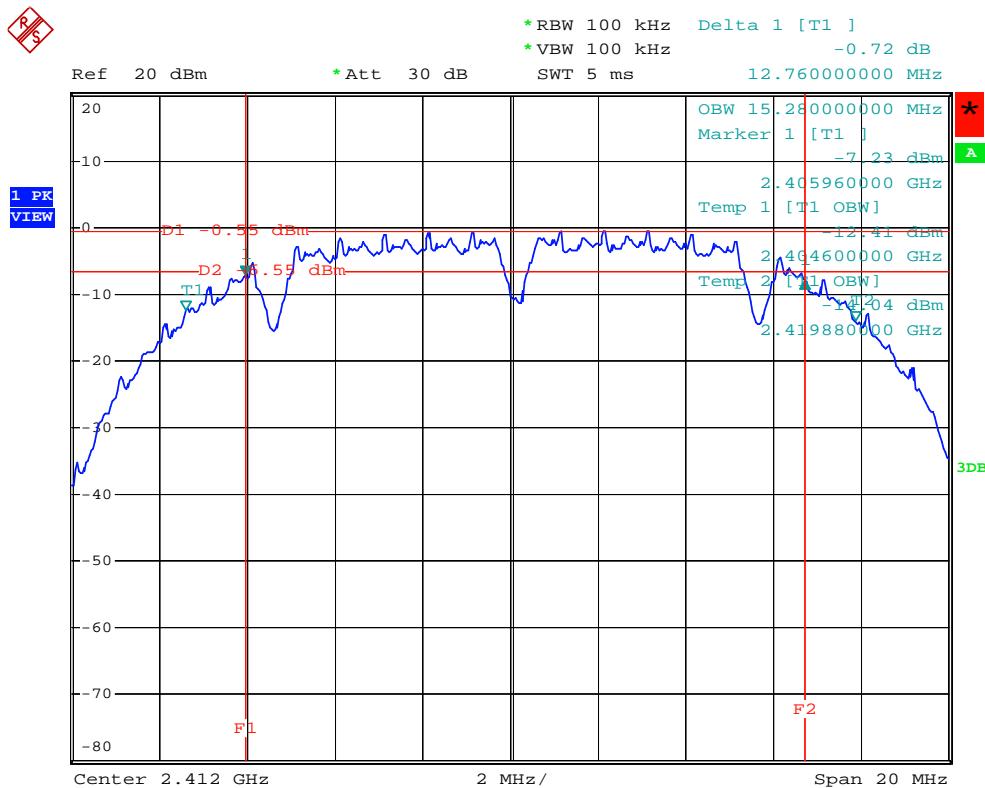


## 5.1.6 TEST RESULTS

EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	27 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01, CH06, CH11		

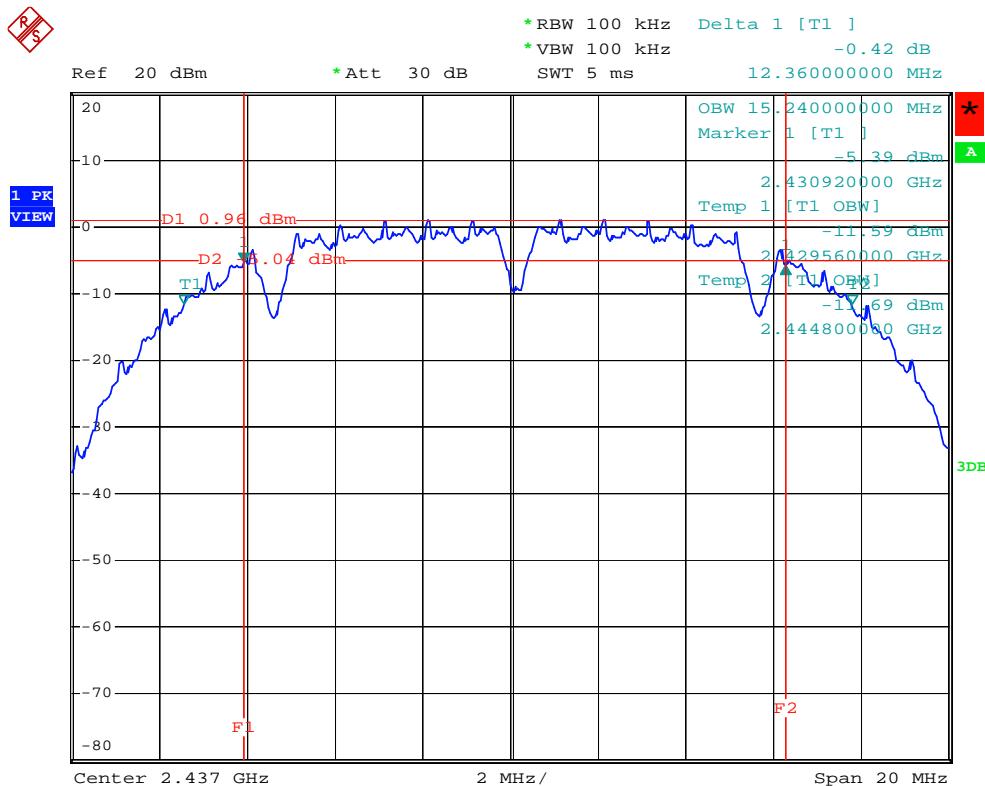
Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	12.76	>=500KHz
CH06	2437	12.36	>=500KHz
CH11	2462	12.68	>=500KHz

### CH01

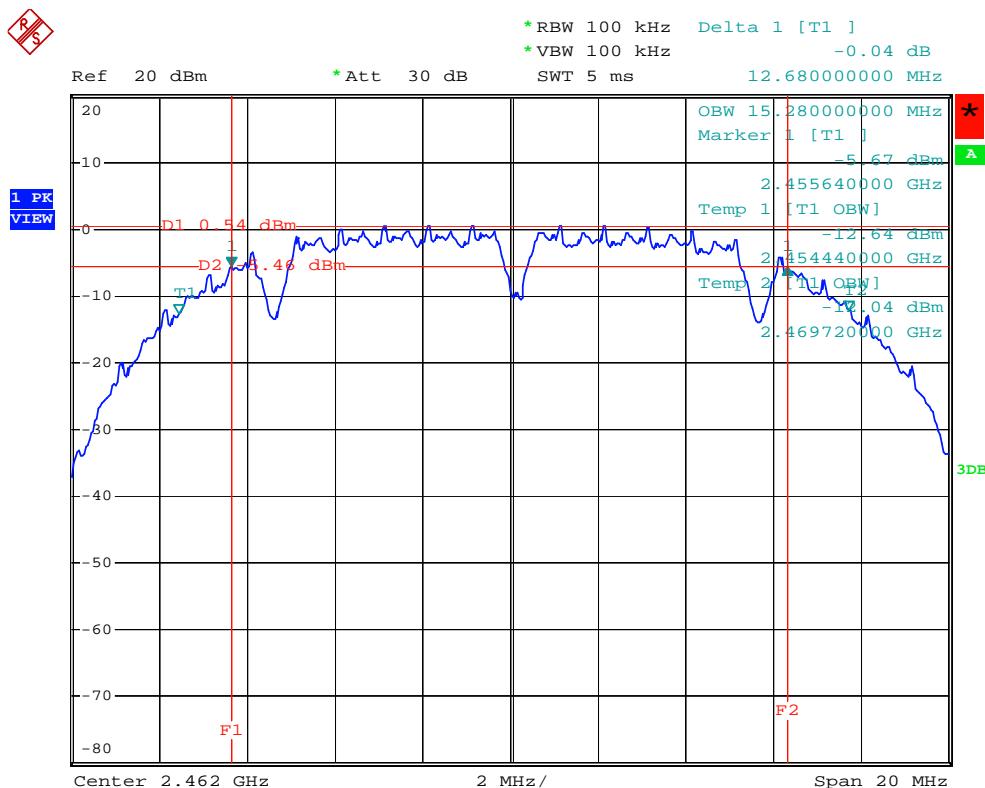




## CH06



## CH11

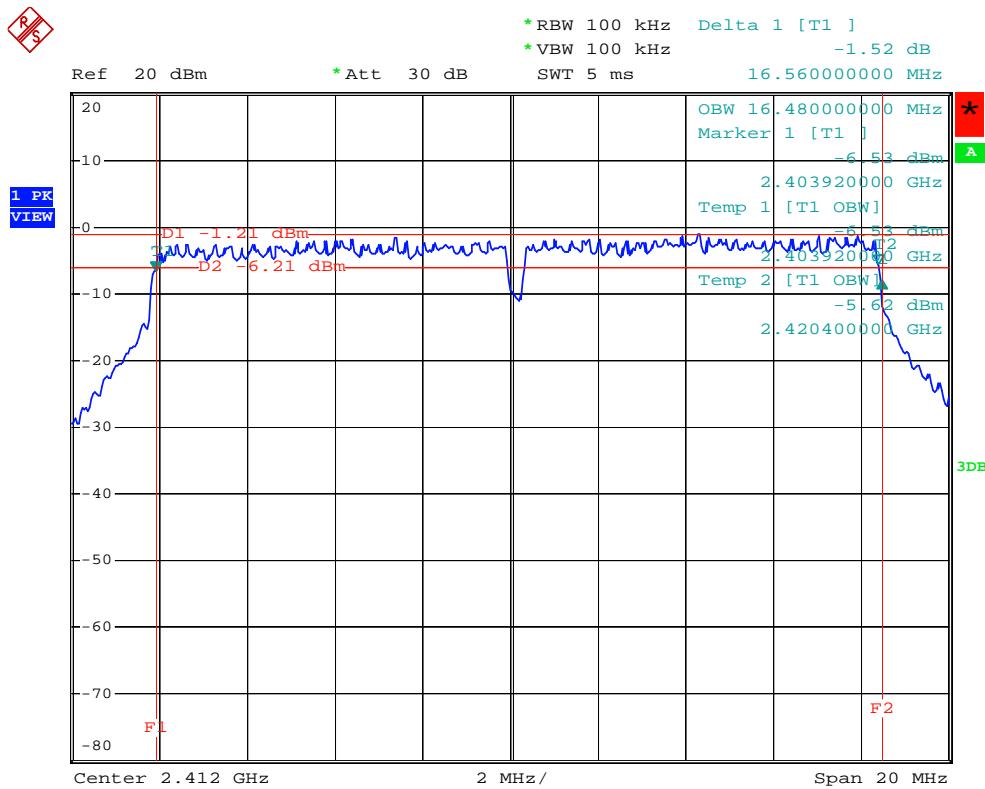




EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	27 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01, CH06, CH11		

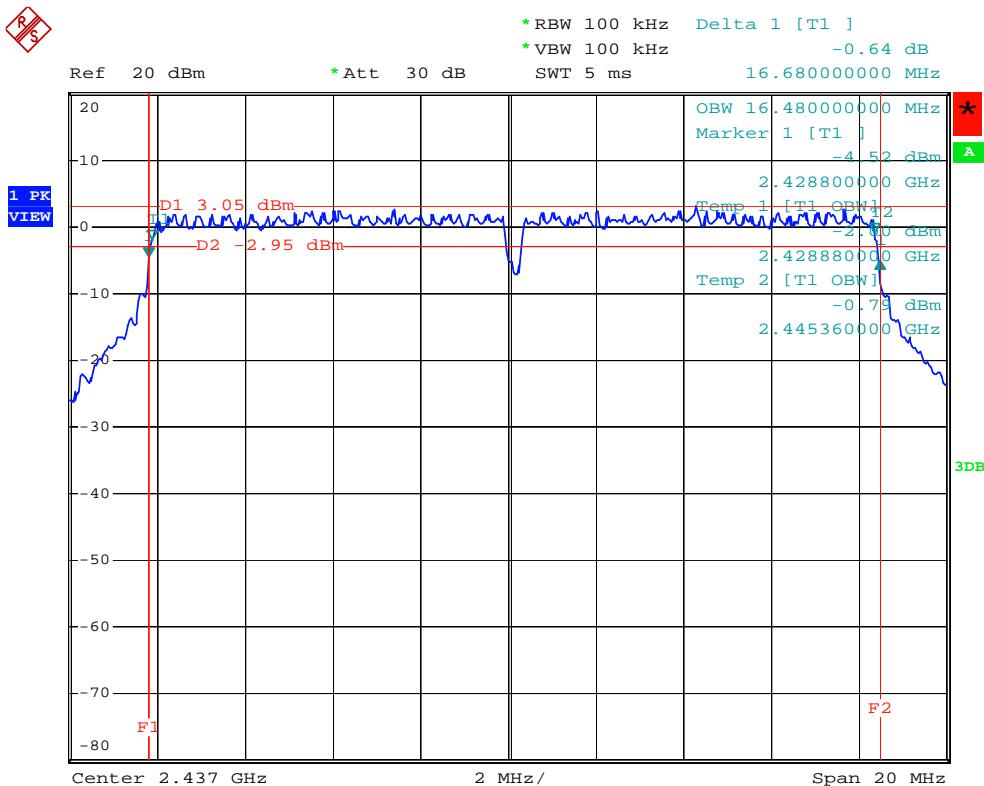
Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	16.56	>=500KHz
CH06	2437	16.68	>=500KHz
CH11	2462	16.68	>=500KHz

## CH01

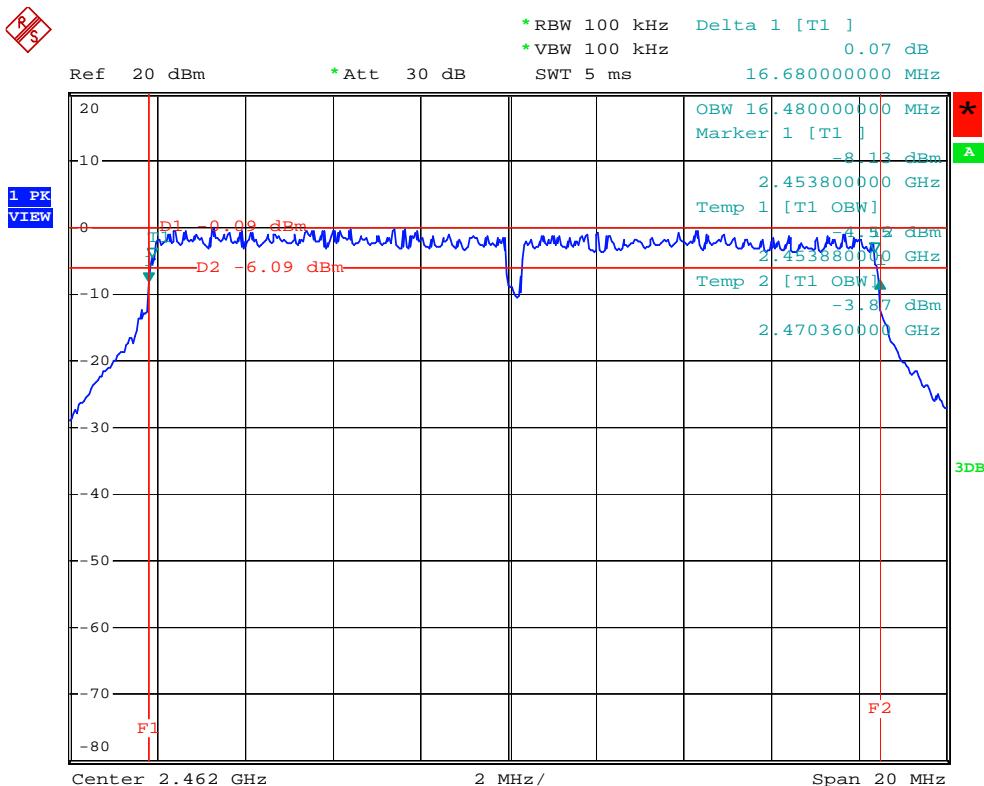




## CH06



## CH11

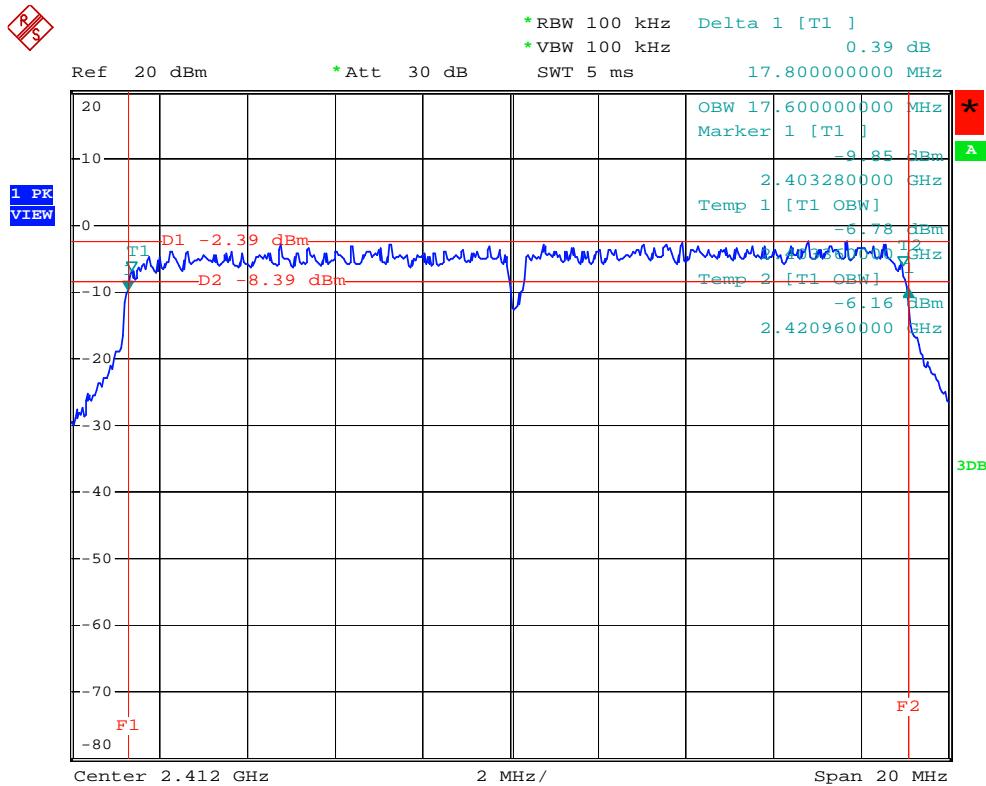




EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	27 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01, CH06, CH11		

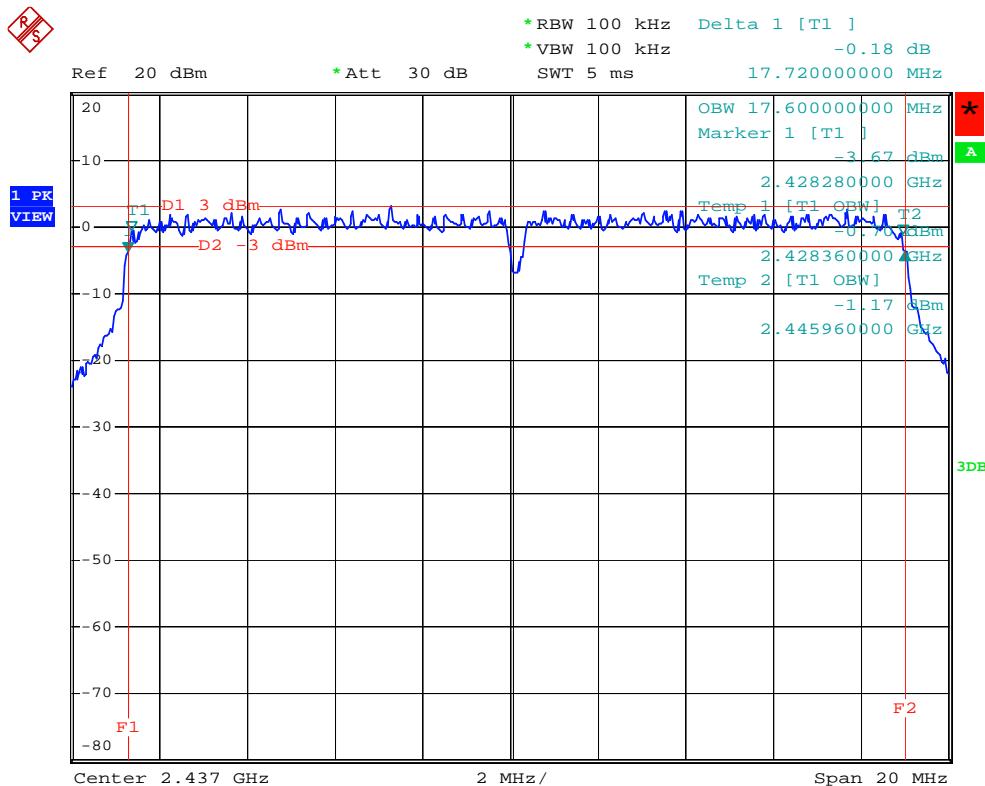
Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	17.80	>=500KHz
CH06	2437	17.72	>=500KHz
CH11	2462	17.72	>=500KHz

## CH01

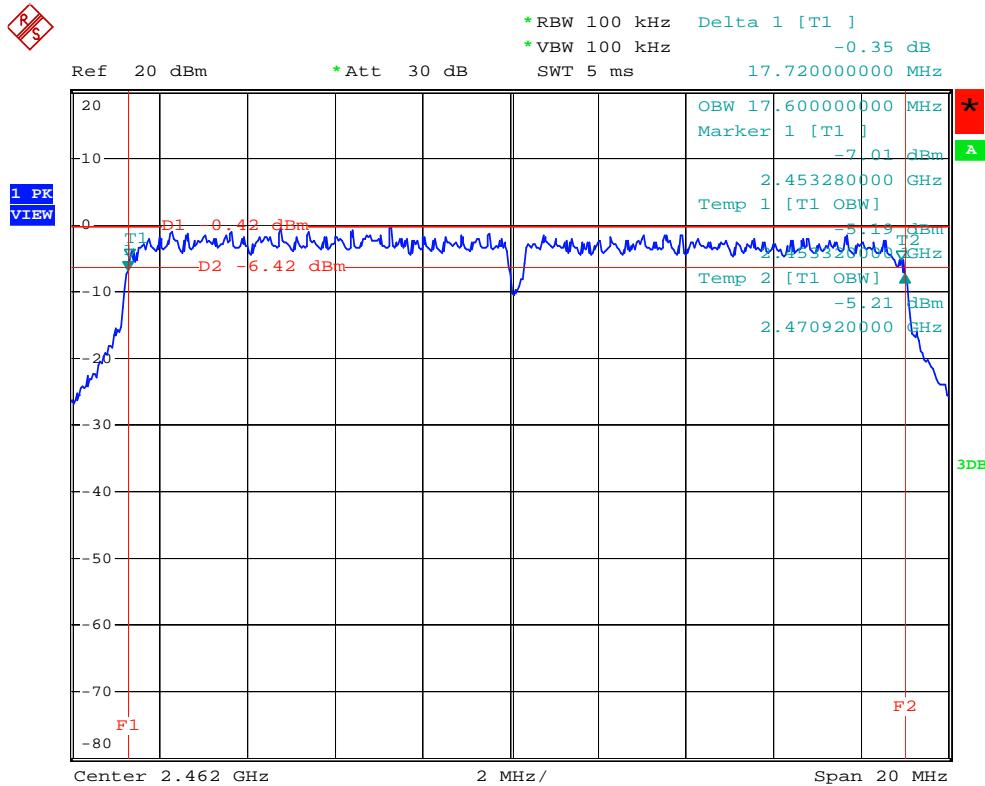




## CH06



## CH11

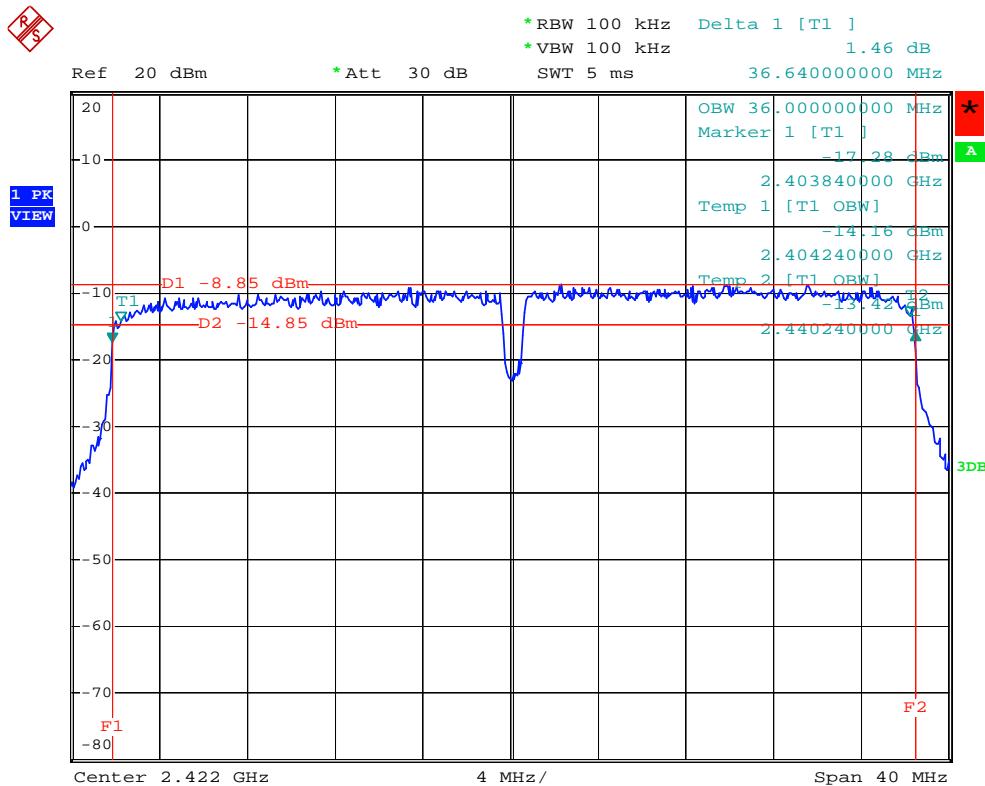




EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	27 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03, CH06, CH09		

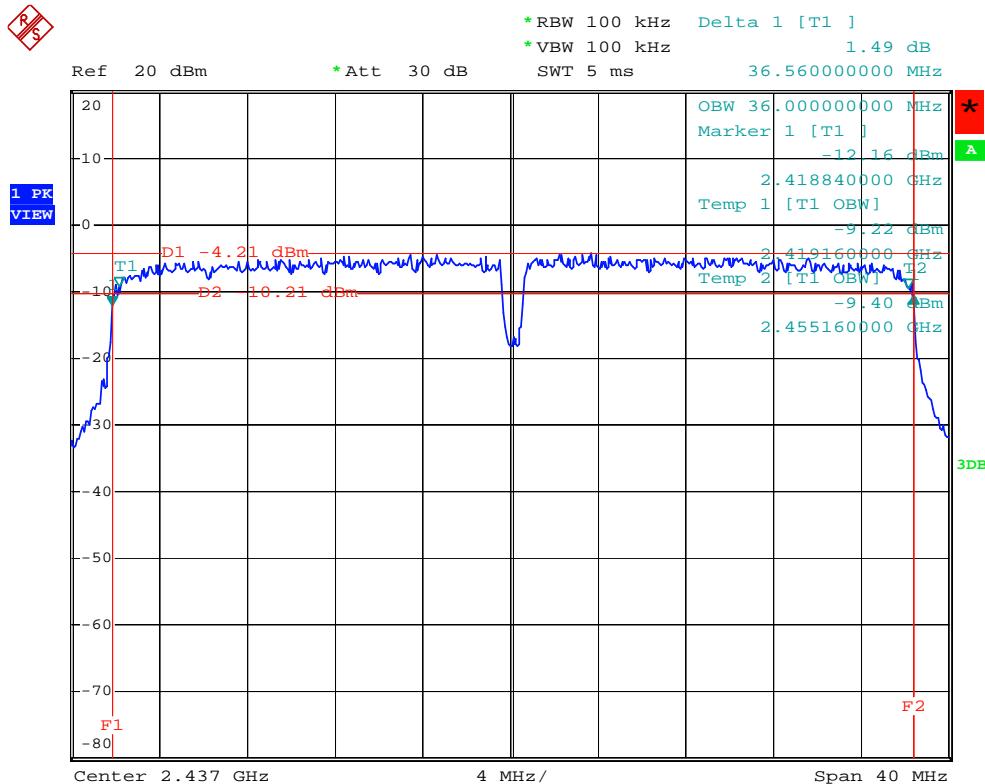
Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH03	2422	36.64	>=500KHz
CH06	2437	36.56	>=500KHz
CH09	2452	36.56	>=500KHz

## CH03

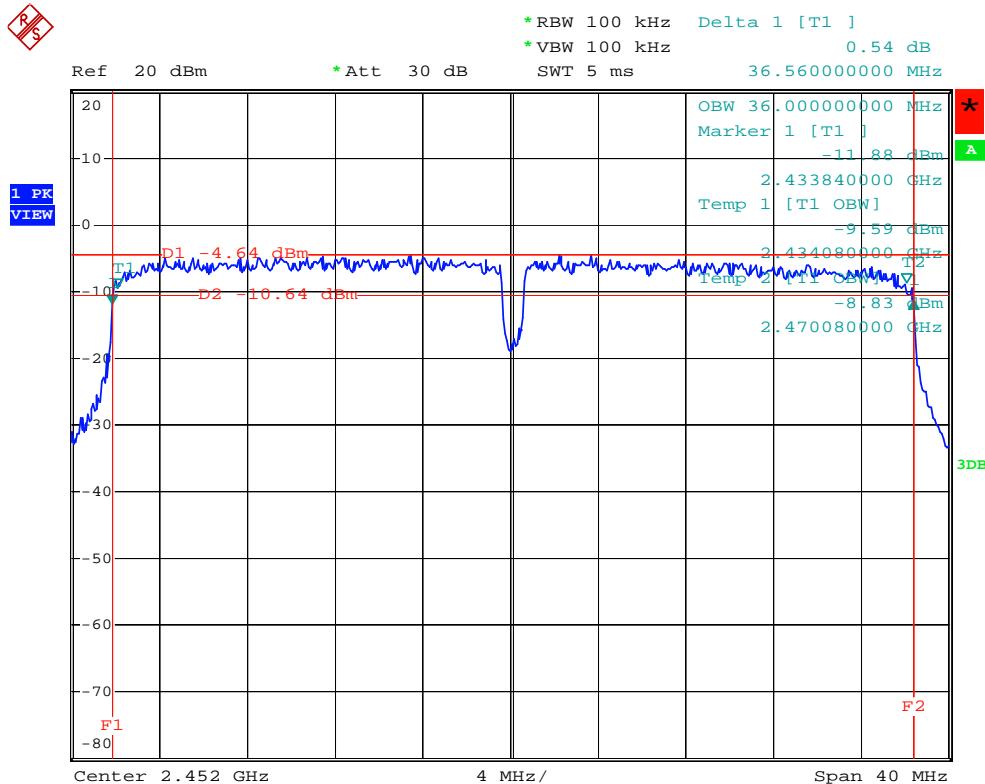




## CH06



## CH09





## 6. PEAK OUTPUT POWER TEST

### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C			
Test Item	Limit	Frequency Range (MHz)	Result
Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

#### 6.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	Feb. 12, 2009
2	Power Meter Sensor	Anritsu	MA2491A	34138	Feb. 12, 2009

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

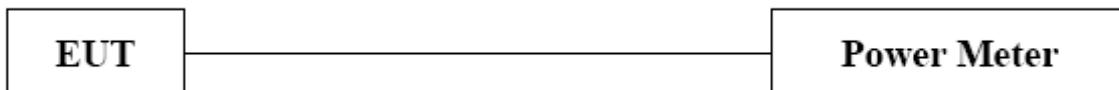
#### 6.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,

#### 6.1.3 DEVIATION FROM STANDARD

No deviation.

#### 6.1.4 TEST SETUP



#### 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 :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	27 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	17.21	30	1
CH06	2437	18.41	30	1
CH11	2462	17.96	30	1

EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	27 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	24.60	30	1
CH06	2437	26.60	30	1
CH11	2462	25.08	30	1



EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L	
Temperature :	27 °C	Relative Humidity :	55 %	
Test Voltage :	AC 120V/60Hz			
Test Mode :	802.11n/20M/CH01, CH06, CH11			

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	23.52	30	1
CH06	2437	26.62	30	1
CH11	2462	25.08	30	1

EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L	
Temperature :	27 °C	Relative Humidity :	55 %	
Test Voltage :	AC 120V/60Hz			
Test Mode :	802.11n/40M/CH03, CH06, CH09			

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH03	2422	20.00	30	1
CH06	2437	24.70	30	1
CH09	2452	24.60	30	1



## 7. ANTENNA CONDUCTED SPURIOUS EMISSION

### 7.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C			
Test Item	Limit	Frequency Range (MHz)	Result
Antenna conducted Spurious Emission	20dB less than the peak value of fundamental frequency	30-25000	PASS

#### 7.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 14, 2009

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

#### 7.1.2 TEST PROCEDURE

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

#### 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.



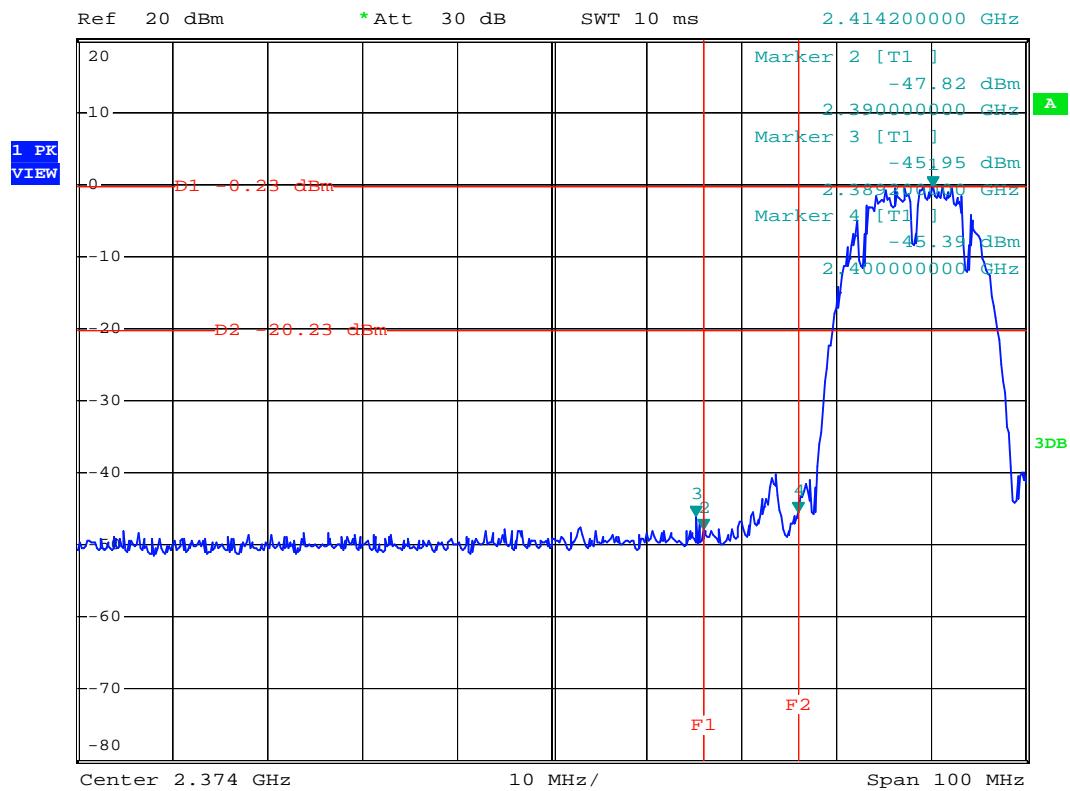
### 7.1.6 TEST RESULTS

EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	27 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01, CH11		

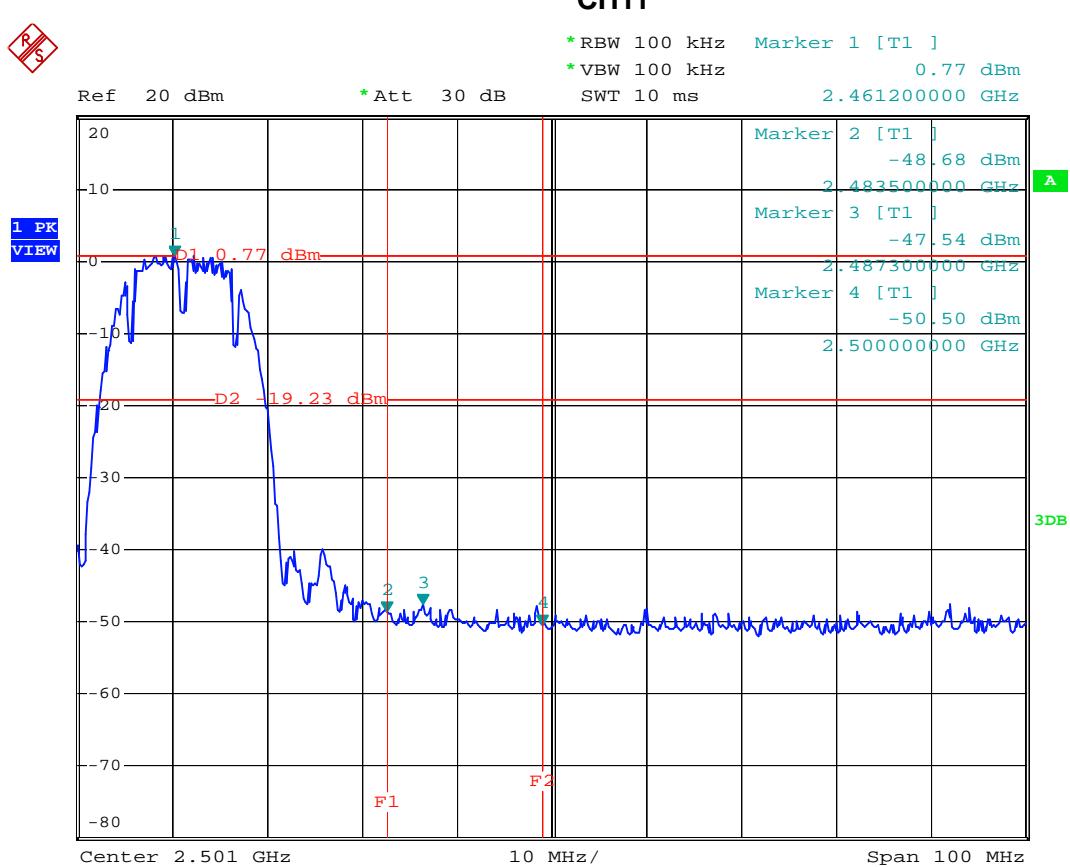
Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2389.2	-45.95	2487.3	-47.54
Result			
In any 100kHz 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.			



REFS



REFS





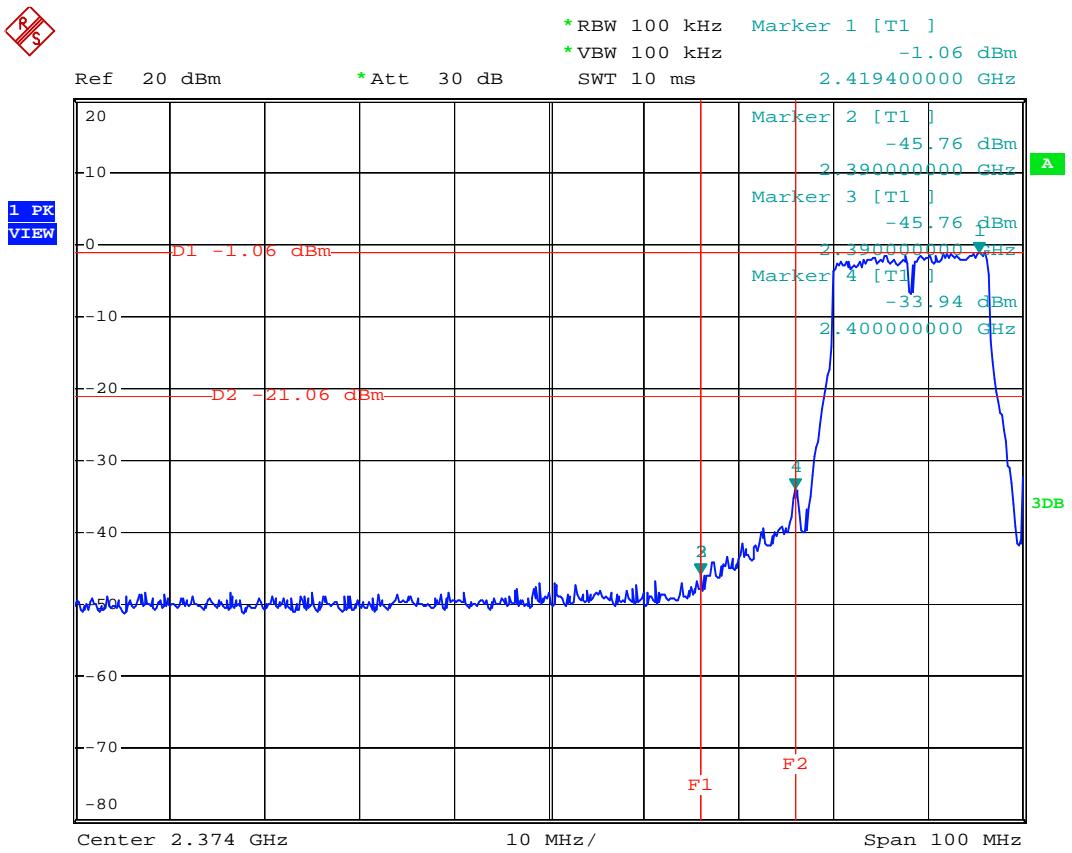
EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	27 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01, CH11		

Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside 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)
2390.0	-45.76	2483.7	-45.39
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.			



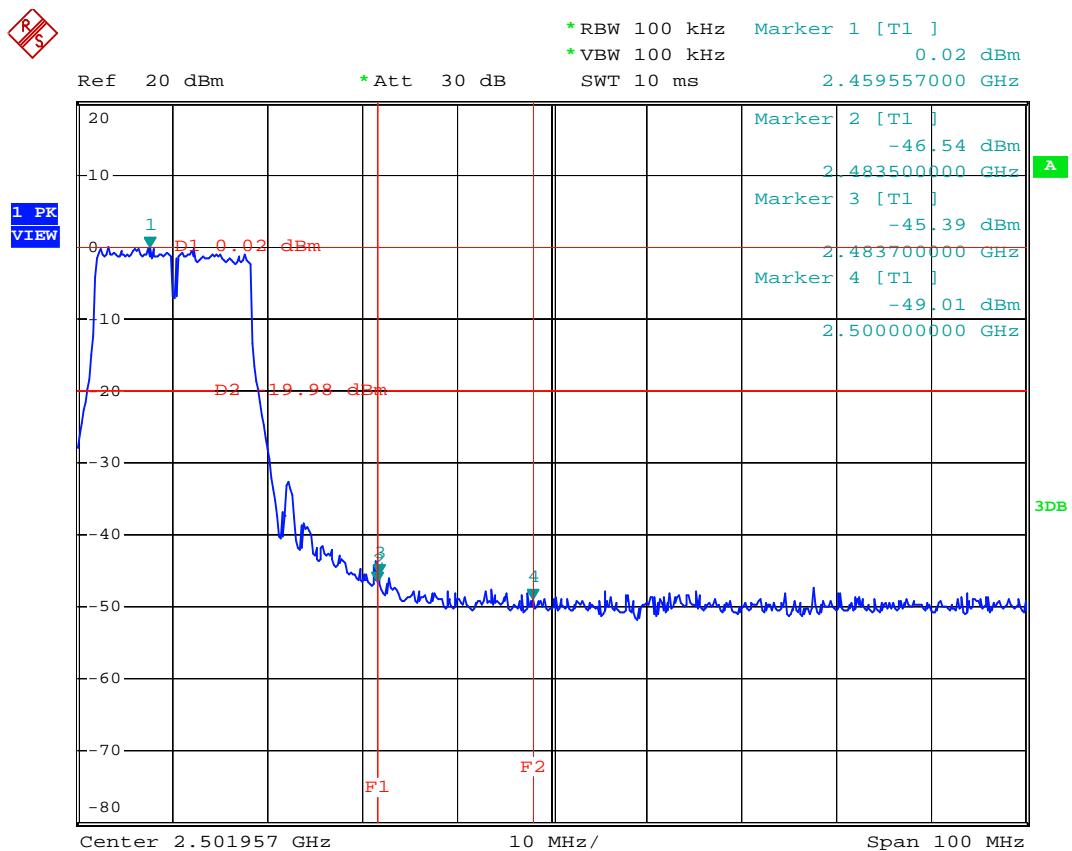
REFS

## CH01



REFS

## CH11





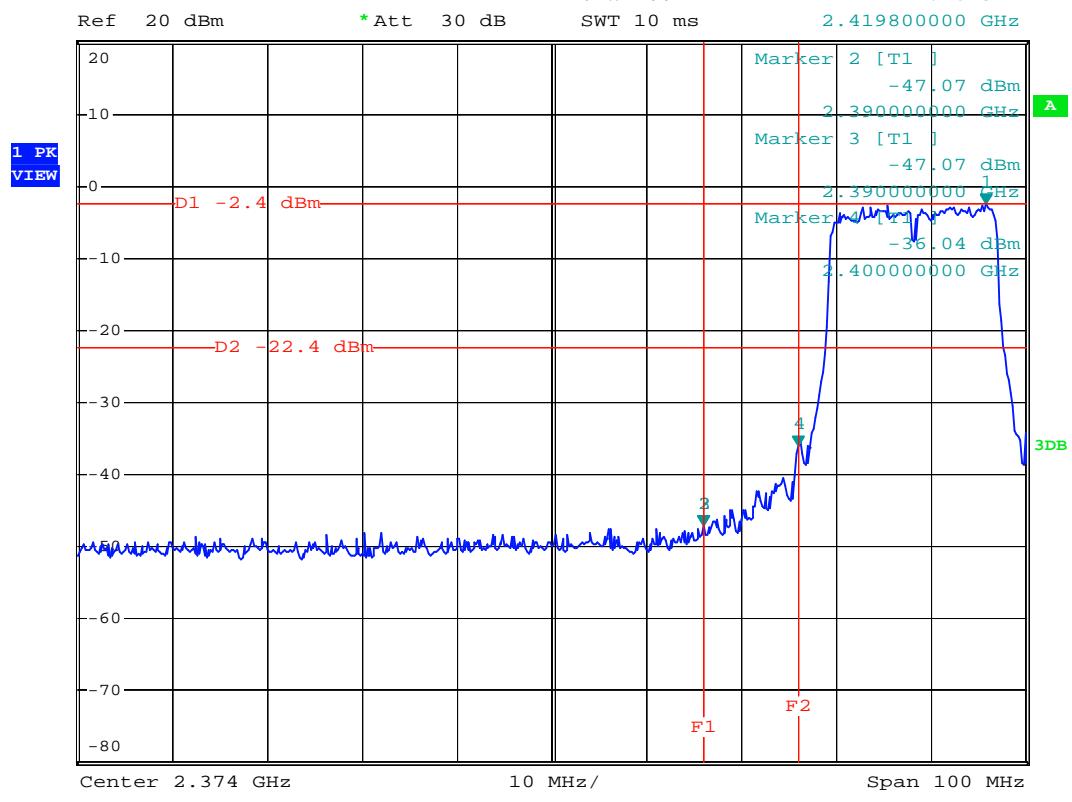
EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	27 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01, CH11		

Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside 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)
2390.0	-47.07	2483.5	-45.73
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.			

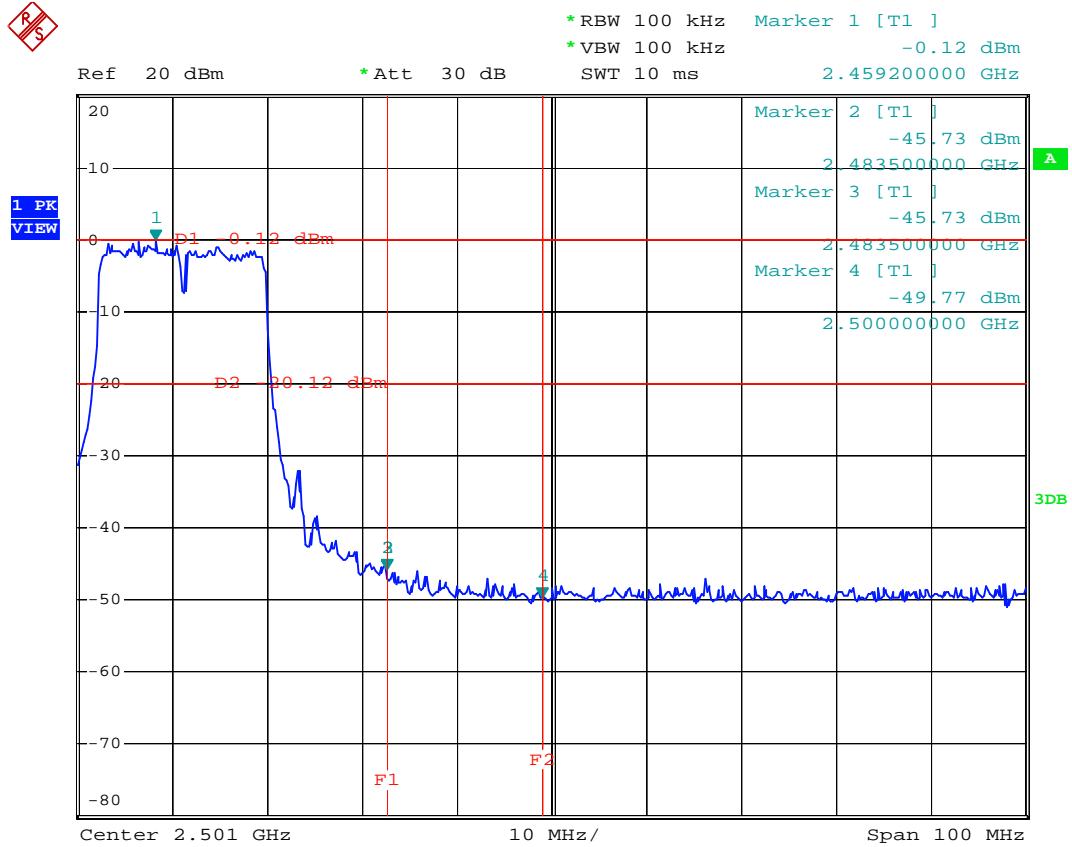


REF

## CH01



## CH11





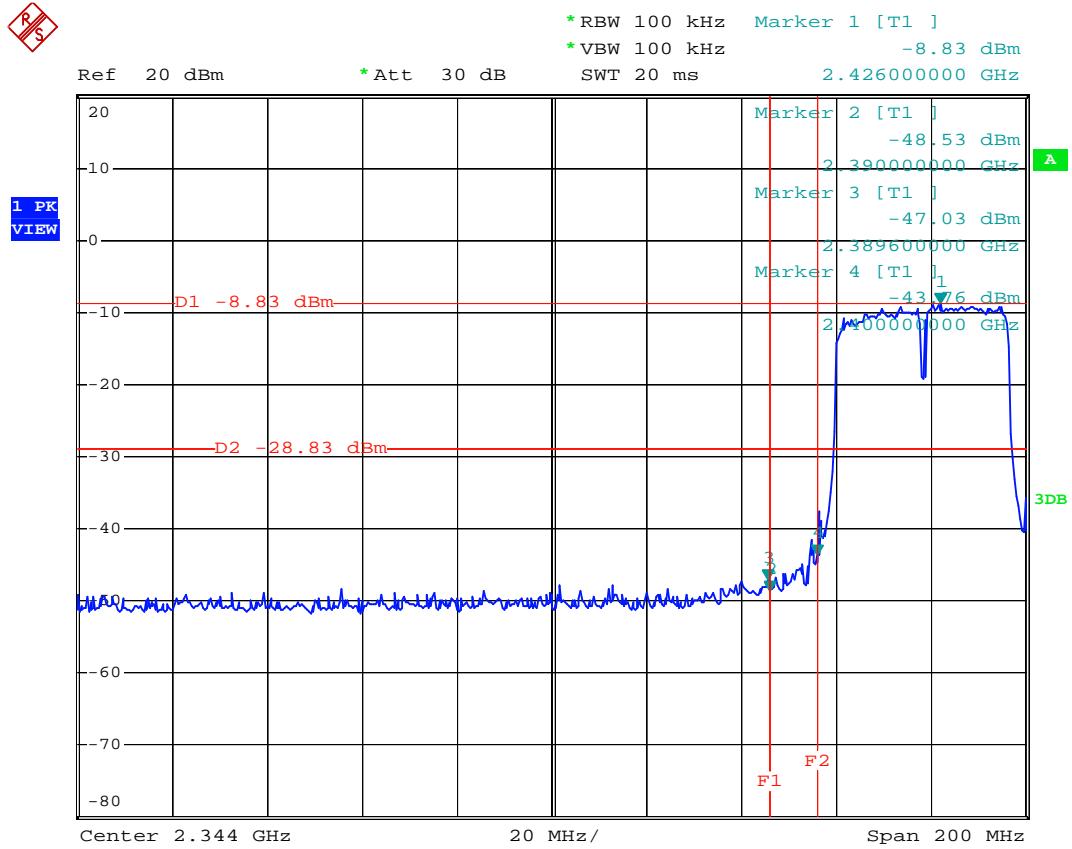
EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	27 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03, CH09		

Channel of Worst Data: CH03,CH09			
The max. radio frequency power in any 100kHz bandwidth outside 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)
2389.6	-47.03	2484.7	-45.41
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.			

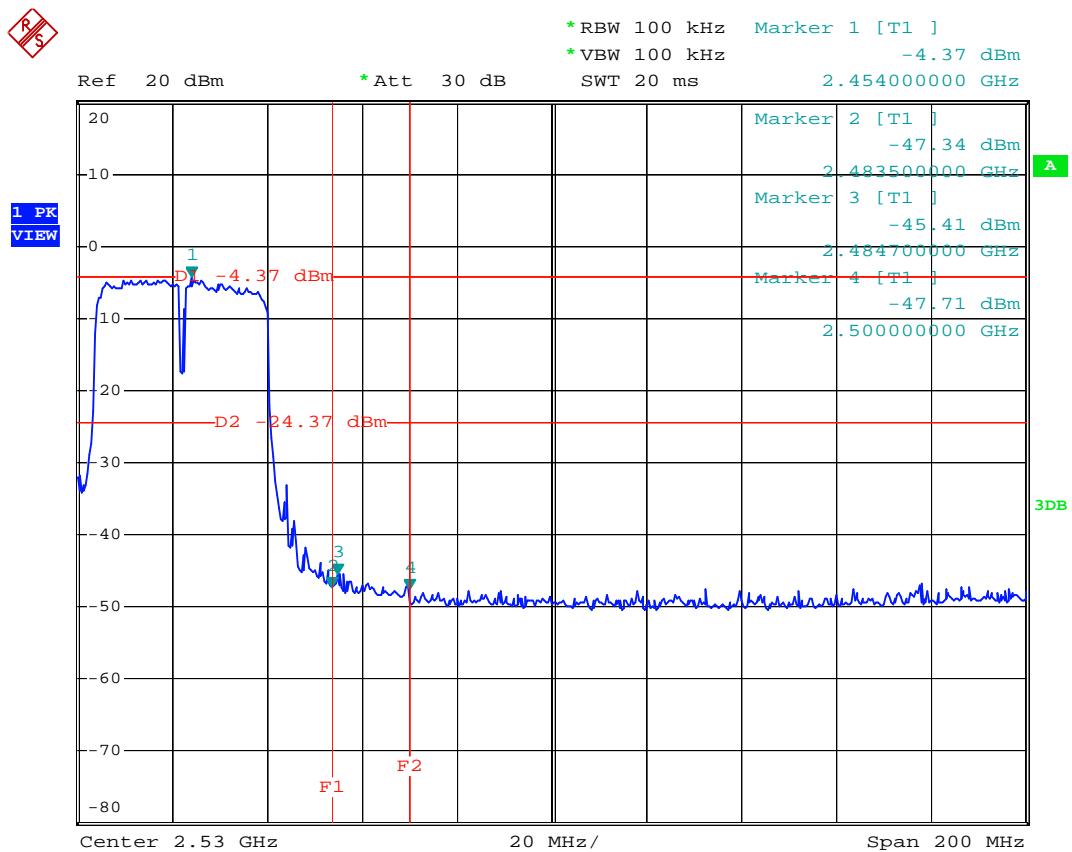


REFS

## CH03



## CH09





## 8. POWER SPECTRAL DENSITY TEST

### 8.1 APPLIED PROCEDURES / LIMIT

FCC Part15, Subpart C			
Test Item	Limit	Frequency Range (MHz)	Result
Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

#### 8.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 14, 2009

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

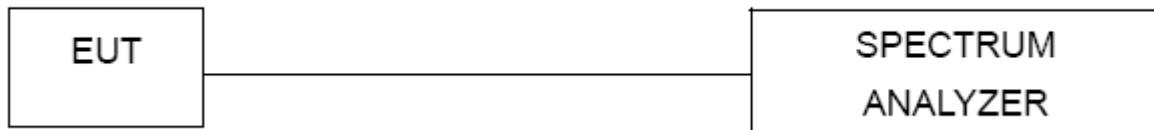
#### 8.1.2 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW=3KHz, VBW=30KHz, Sweep time = 500s.

#### 8.1.3 DEVIATION FROM STANDARD

No deviation.

#### 8.1.4 TEST SETUP



#### 8.1.5 EUT OPERATION CONDITIONS

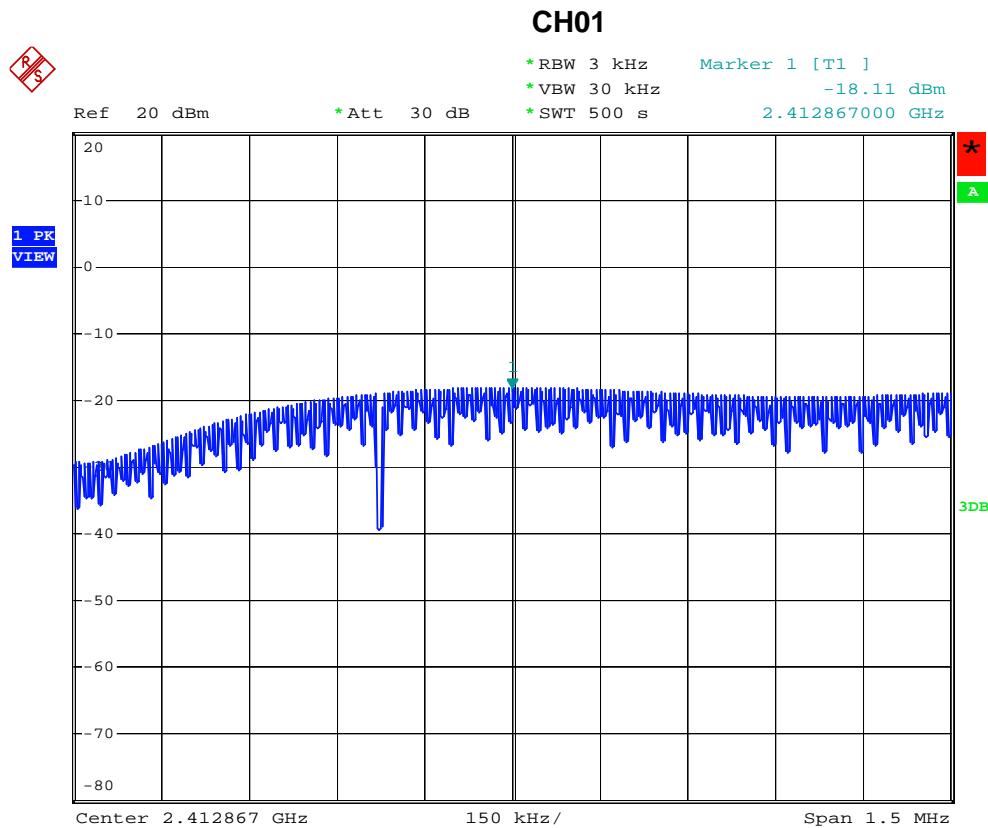
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.



## 8.1.6 TEST RESULTS

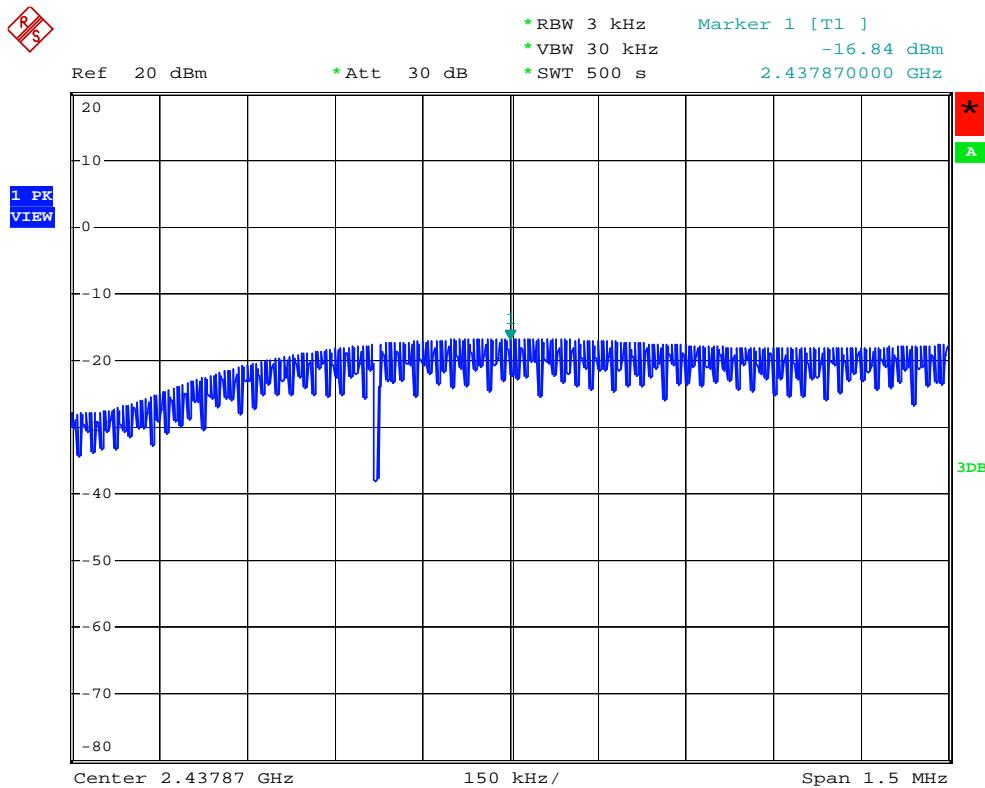
EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	27 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11b/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-18.11	8
CH06	2437	-16.84	8
CH11	2462	-17.18	8

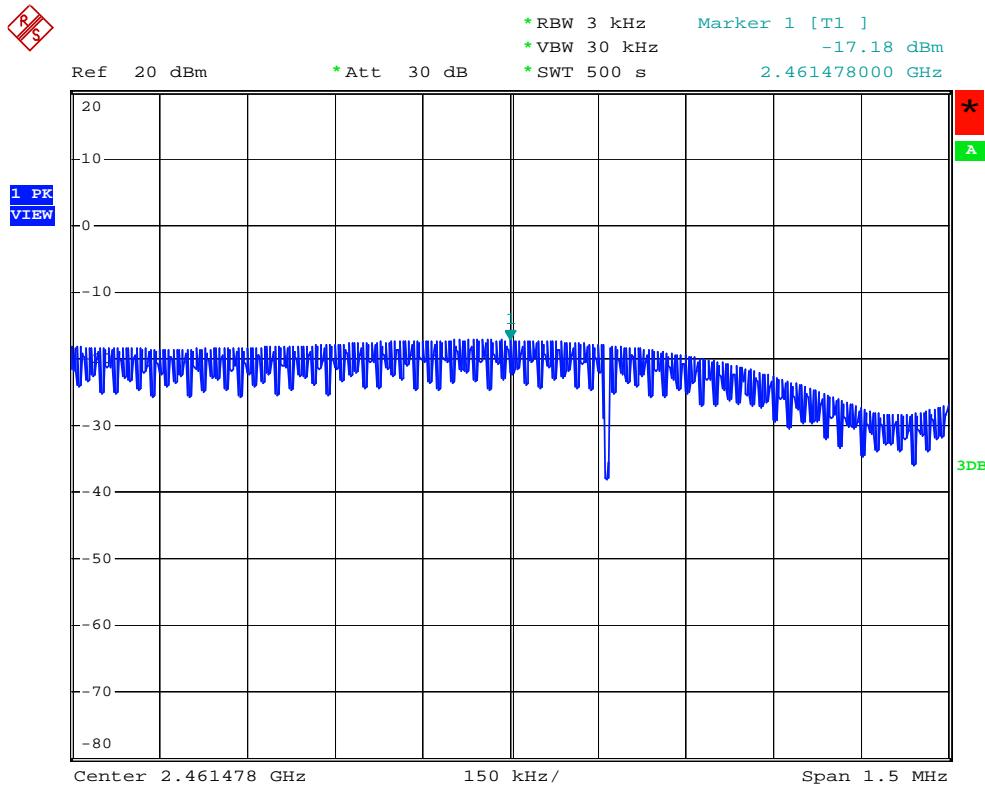




## CH06



## CH11

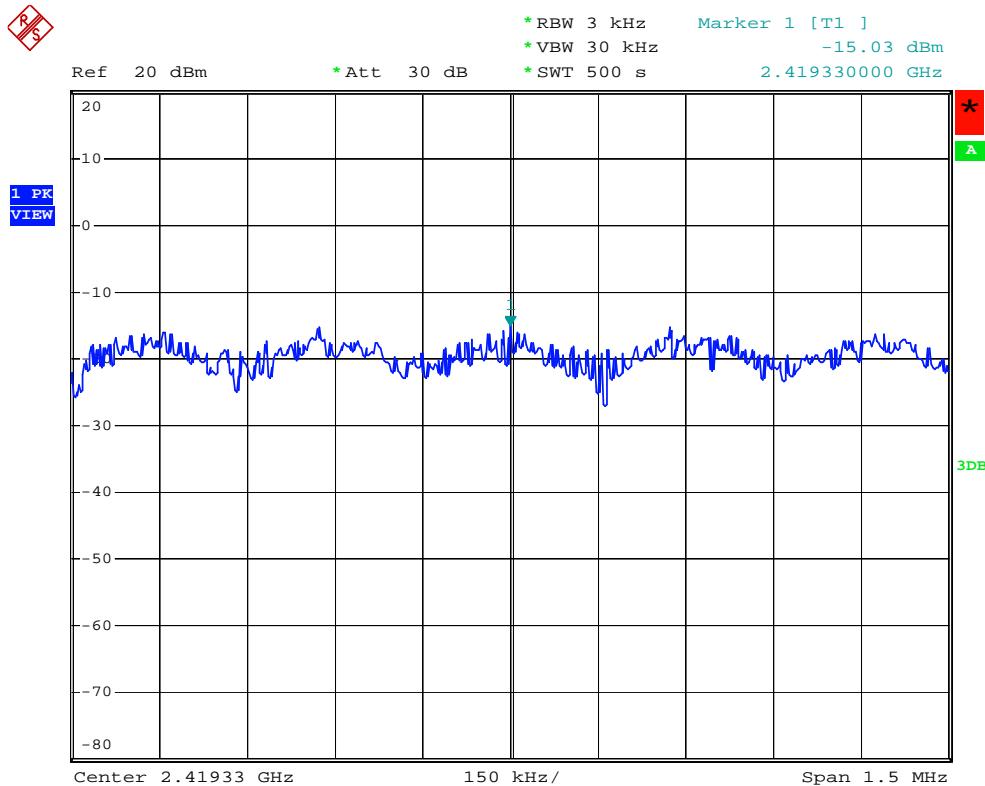




EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	27 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11g/CH01, CH06, CH11		

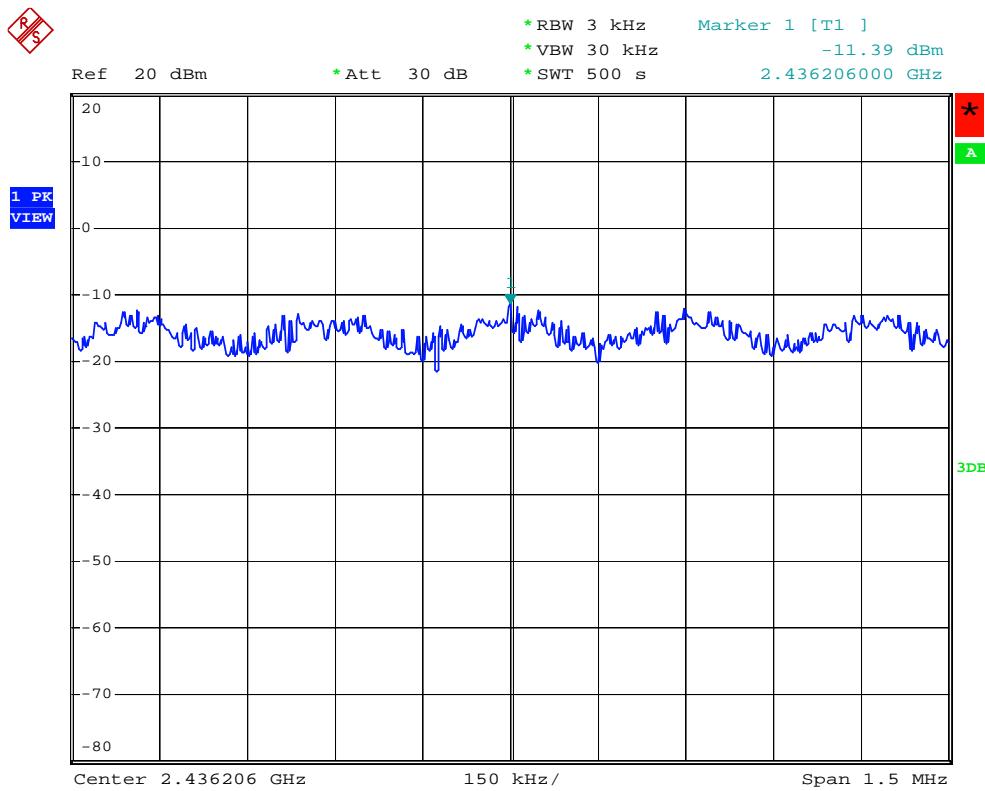
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-15.03	8
CH06	2437	-11.39	8
CH11	2462	-13.83	8

## CH01

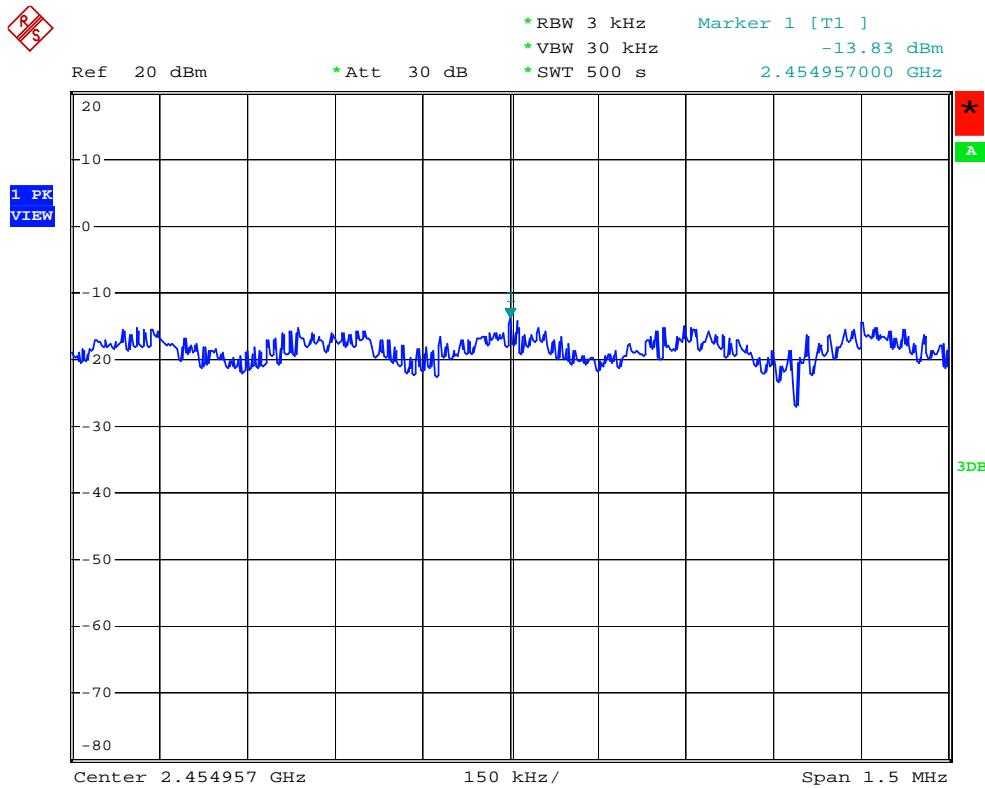




## CH06



## CH11

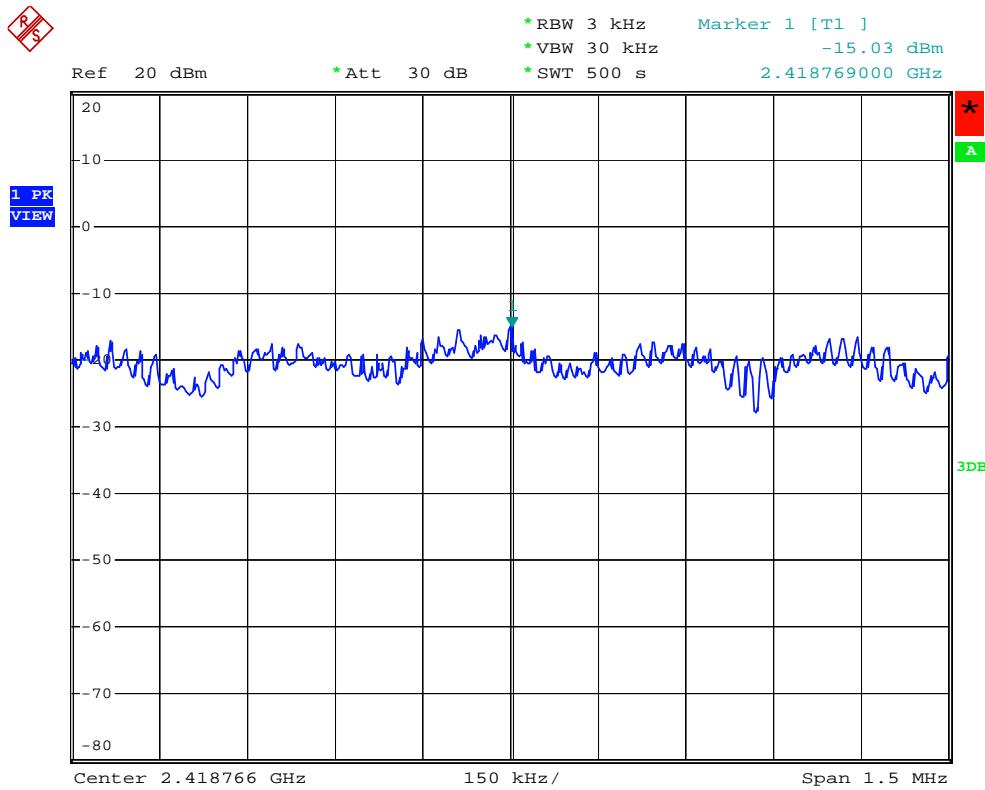




EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	27 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/20M/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-15.03	8
CH06	2437	-10.64	8
CH11	2462	-14.21	8

## CH01





REF

1 PK  
VIEW

Ref 20 dBm

\* Att 30 dB

CH06

\* RBW 3 kHz

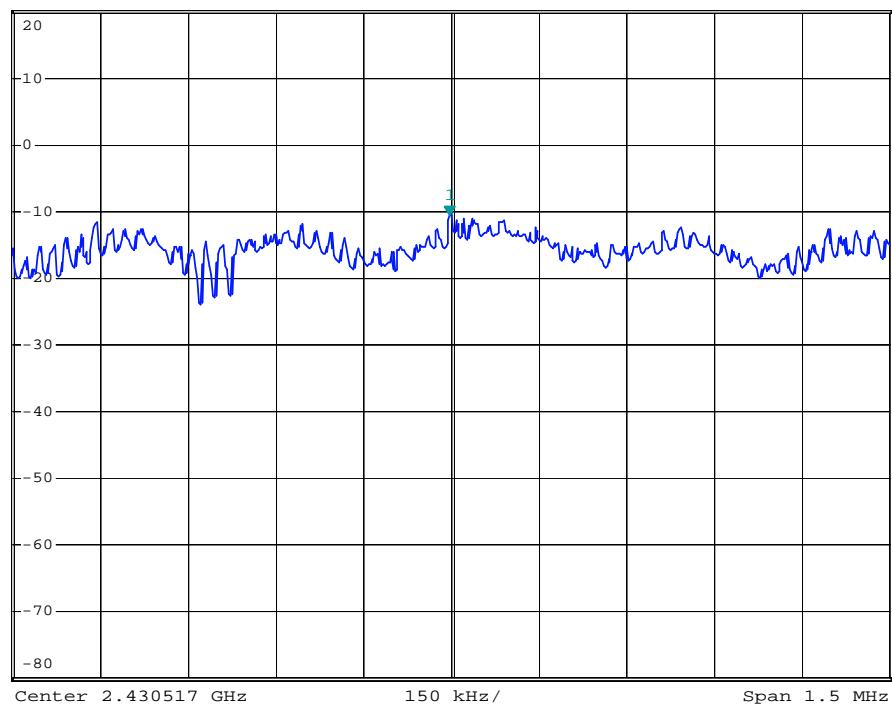
Marker 1 [T1]

\* VBW 30 kHz

-10.64 dBm

\* SWT 500 s

2.430514000 GHz



CH11

REF

1 PK  
VIEW

Ref 20 dBm

\* Att 30 dB

\* RBW 3 kHz

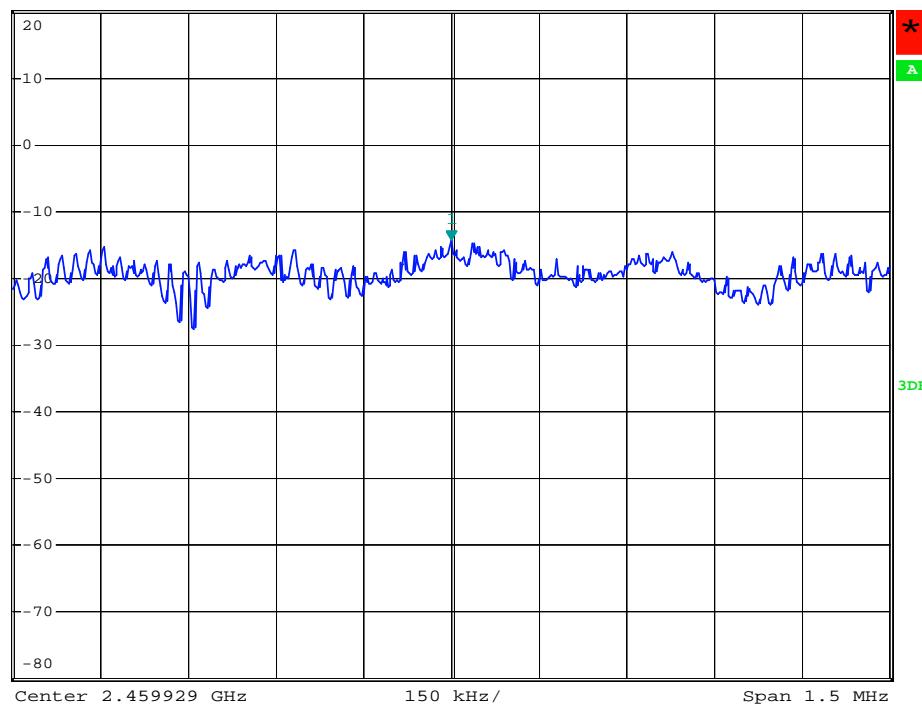
Marker 1 [T1]

\* VBW 30 kHz

-14.21 dBm

\* SWT 500 s

2.459929000 GHz

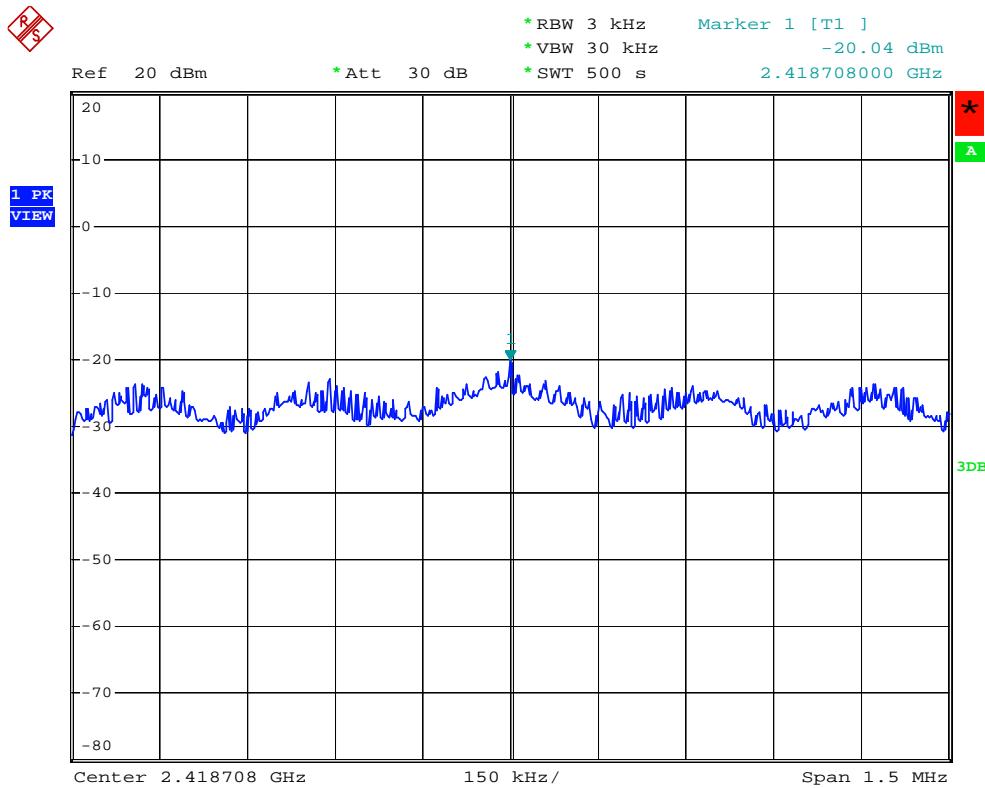




EUT :	Giga NAS Landisk	Model No. :	PX-WNAS500L
Temperature :	27 °C	Relative Humidity :	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	802.11n/40M/CH03, CH06, CH09		

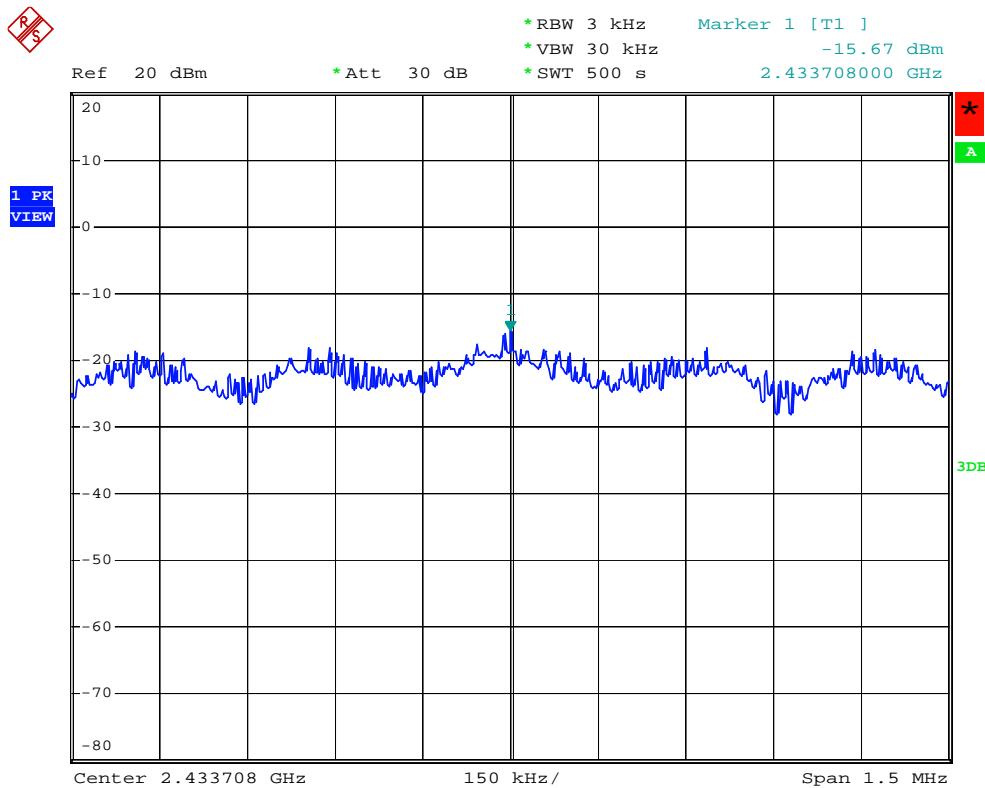
Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH03	2422	-20.04	8
CH06	2437	-15.67	8
CH09	2452	-16.75	8

## CH03





## CH06



## CH09

