



FCC Radio Test Report

FCC ID: PXPAP2010

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

Issued Date : Oct. 01, 2009

Project No. : R0906015

Equipment : Professional Outdoor 2.4Ghz 802.11b/g,
AP/Bridge/Repeater.

Model Name : AP-2010

Applicant : RFNet Technologies Pte Ltd

Address : 801 Lorong 7 Toa Payoh # 05-02
Wearnes Technology Building Singapore
319 319

Tested by:

Neutron Engineering Inc. EMC Laboratory

Date of Test:

Sep. 11, 2009 ~ Sep. 24, 2009

Testing Engineer : Rush Kao
(Rush Kao)

Technical Manager : Jeff Yang
(Jeff Yang)

Authorized Signatory : Andy Chiu
(Andy Chiu)

Neutron Engineering Inc.

B1, No. 37, Lane 365, YangGuang St.

NeiHu District 114, Taipei, Taiwan.

TEL: +886-2-2657-3299

FAX: +886-2-2657-3331





Declaration

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

Neutron's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **Neutron** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **Neutron** issued reports.

Neutron's reports must not be used by the client to claim product endorsement by the authorities or any agency of the Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and **Neutron-self**, extracts from the test report shall not be reproduced except in full with **Neutron's** authorized written approval.

Neutron's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

Limitation

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



Table of Contents	Page
1 . CERTIFICATION	5
2 . SUMMARY OF TEST RESULTS	6
2.1 TEST FACILITY	7
2.2 MEASUREMENT UNCERTAINTY	7
3 . GENERAL INFORMATION	8
3.1 GENERAL DESCRIPTION OF EUT	8
3.2 DESCRIPTION OF TEST MODES	10
3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	11
3.4 DESCRIPTION OF SUPPORT UNITS	12
4 . EMC EMISSION TEST	13
4.1 RADIATED EMISSION MEASUREMENT	13
4.1.1 RADIATED EMISSION LIMITS	13
4.1.2 MEASUREMENT INSTRUMENTS LIST	14
4.1.3 TEST PROCEDURE	14
4.1.4 DEVIATION FROM TEST STANDARD	14
4.1.5 TEST SETUP	15
4.1.6 EUT OPERATING CONDITIONS	15
4.1.7 TEST RESULTS-BETWEEN 30MHZ - 1000MHZ	16
4.1.8 TEST RESULTS - ABOVE 1000MHZ	20
4.1.9 TEST RESULTS-RESTRICTED BANDS REQUIREMENTS	68
5 . BANDWITH TEST	84
5.1 APPLIED PROCEDURES / LIMIT	84
5.1.1 MEASUREMENT INSTRUMENTS LIST	84
5.1.2 TEST PROCEDURE	84
5.1.3 DEVIATION FROM STANDARD	84
5.1.4 TEST SETUP	84
5.1.5 EUT OPERATION CONDITIONS	84
5.1.6 TEST RESULTS	85
6 . PEAK OUTPUT POWER TEST	93
6.1 APPLIED PROCEDURES / LIMIT	93
6.1.1 MEASUREMENT INSTRUMENTS LIST	93
6.1.2 TEST PROCEDURE	93
6.1.3 DEVIATION FROM STANDARD	93
6.1.4 TEST SETUP	93
6.1.5 EUT OPERATION CONDITIONS	93



Table of Contents	Page
6.1.6 TEST RESULTS	94
7 . ANTENNA CONDUCTED SPURIOUS EMISSION	98
7.1 APPLIED PROCEDURES / LIMIT	98
7.1.1 MEASUREMENT INSTRUMENTS LIST	98
7.1.2 TEST PROCEDURE	98
7.1.3 DEVIATION FROM STANDARD	98
7.1.4 TEST SETUP	98
7.1.5 EUT OPERATION CONDITIONS	98
7.1.6 TEST RESULTS	99
8 . POWER SPECTRAL DENSITY TEST	107
8.1 APPLIED PROCEDURES / LIMIT	107
8.1.1 MEASUREMENT INSTRUMENTS LIST	107
8.1.2 TEST PROCEDURE	107
8.1.3 DEVIATION FROM STANDARD	107
8.1.4 TEST SETUP	107
8.1.5 EUT OPERATION CONDITIONS	107
8.1.6 TEST RESULTS	108
9 . RF EXPOSURE TEST	116
9.1 APPLIED PROCEDURES / LIMIT	116
9.1.1 MEASUREMENT INSTRUMENTS LIST	116
9.1.2 MPE CALCULATION METHOD	116
9.1.3 DEVIATION FROM STANDARD	117
9.1.4 TEST SETUP	117
9.1.5 EUT OPERATION CONDITIONS	117
9.1.6 TEST RESULTS	118
10 . EUT TEST PHOTO	122



1. CERTIFICATION

Equipment : Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.
Brand Name : RFNet
Model Name : AP-2010
Applicant : RFNet Technologies Pte Ltd
Date of Test : Sep. 11, 2009 ~ Sep. 24, 2009
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-R0906015) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15, Subpart C			
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-R0906015.



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **CB08(FCC R.N.: 614388)** at the location of 1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.
Brand Name	RFNet
Model Name	AP-2010
OEM Brand/Model Name	N/A
Model Difference	Please refer to the Note 2.
Product Description	The EUT is a Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater. (Point-to-Point Use)
	Operation Frequency: 2412~2462 MHz
	Modulation Type: 802.11b:CCK, DQPSK, DBPSK 802.11g:OFDM
	Bit Rate of Transmitter: 802.11b: 11/5.5/2/1 Mbps 802.11g: 54/48/36/24/18/12/9/6 Mbps
	Number Of Channel: Please see Note 2.
	Antenna Designation: Please see Note 3.
	Antenna Gain(Peak): Please see Note 3.
	Output Power: (Max): Antenna A (Internal): 802.11b: 13.17 dBm (Max.) 802.11g: 16.20 dBm (Max.) Antenna (External): 802.11b: 17.78 dBm (Max.) 802.11g: 19.38 dBm (Max.)
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.
	Channel List
Power Source	DC Voltage supplied from PoE.
Power Rating	I/P DC 48V
Connecting I/O Port(s)	Please refer to the User's Manual
Products Covered	N/A

Note:

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

2.

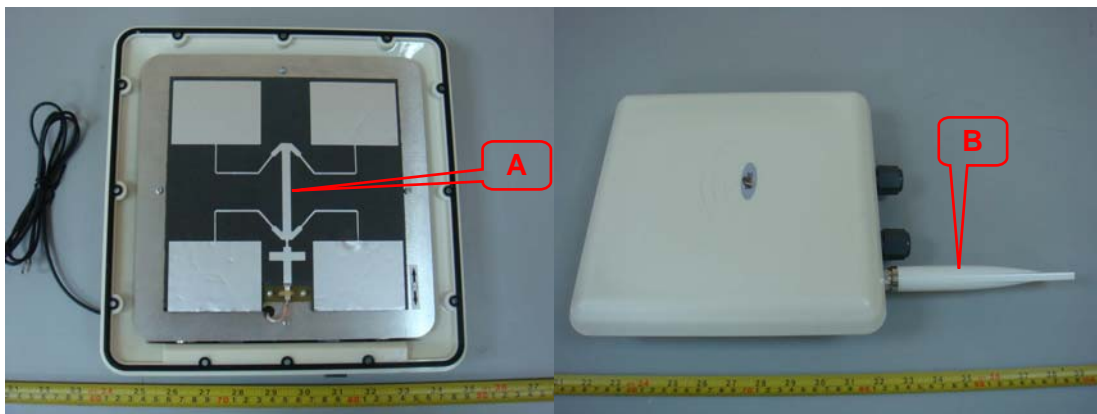
Channel List					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	05	2432	09	2452
02	2417	06	2437	10	2457
03	2422	07	2442	11	2462
04	2427	08	2447		

3. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
A	N/A	N/A	Patch	Build In	14
B	RFNET	ANTD-OD4/7	Dipole	N.	4.5

The Peak Output Power test requirement:

Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.





3.2 DESCRIPTION OF TEST MODES

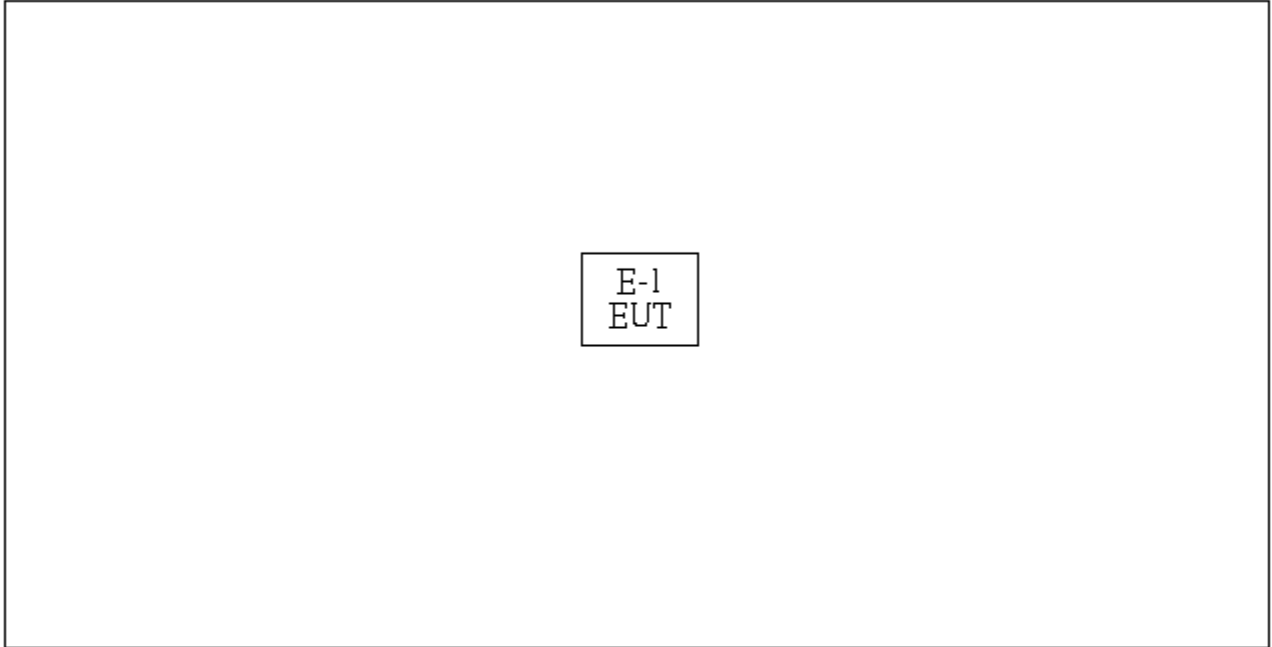
To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Test Mode	Description
Mode 1	802.11b/CH01, CH06, CH11 (Antenna A)
Mode 2	802.11b/CH01, CH06, CH11 (Antenna B)
Mode 3	802.11g/CH01, CH06, CH11 (Antenna A)
Mode 4	802.11g/CH01, CH06, CH11 (Antenna B)

For Radiated Test	
Final Test Mode	Description
Mode 1	802.11b/CH01, CH06, CH11 (Antenna A)
Mode 2	802.11b/CH01, CH06, CH11 (Antenna B)
Mode 3	802.11g/CH01, CH06, CH11 (Antenna A)
Mode 4	802.11g/CH01, CH06, CH11 (Antenna B)



3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





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	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	RFNet	AP-2010	PXPAP2010	N/A	EUT

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

Note:

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



4. EMC EMISSION TEST

4.1 RADIATED EMISSION MEASUREMENT

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

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified 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 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).



4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LogBicon Ant	Schwarzbeck	VULB9168-352	9168-352	Jun. 17, 2010
2	Test Cable	N/A	966_12M	1(12M)	Jun. 18, 2010
3	Test Cable	N/A	966_3M	1(10M)	Jun. 18, 2010
4	Pre-Amplifier	EMC	EMC-330	980001	Jun. 04, 2010
5	Spectrum Analyzer	R&S	FSP30	100854	Apr. 16, 2010
6	EMI Measuring Receiver	SHCAFFNER	SCR 3501	408	Nov. 24.2009
7	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 16, 2010
8	Horn Ant	Schwarzbeck	BBHA-9120	D-546	Jun. 17, 2010
9	Pre-Amplifier	Agilent	8449B	3008A01714	Apr. 20, 2010
10	Microflex Cable	N/A	1M	N/A	May. 20, 2010
11	Microflex Cable	AISI	S104-SMAP-1	S104-SMAP-1	Aug. 23, 2010
12	Microflex Cable	N/A	3M	3M	Aug. 23, 2010

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

4.1.3 TEST PROCEDURE

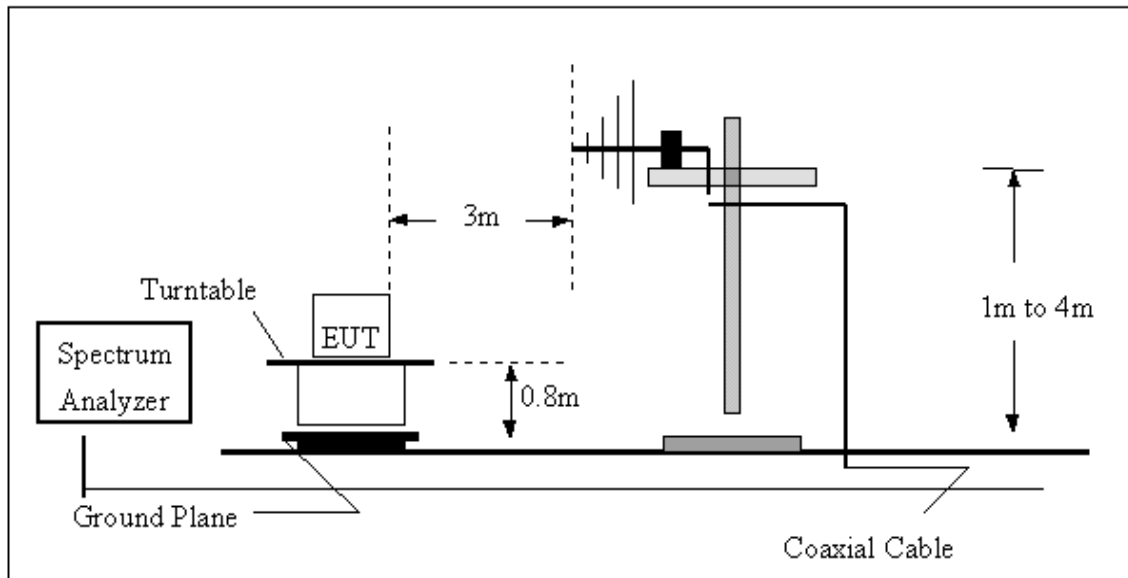
- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table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

4.1.4 DEVIATION FROM TEST STANDARD

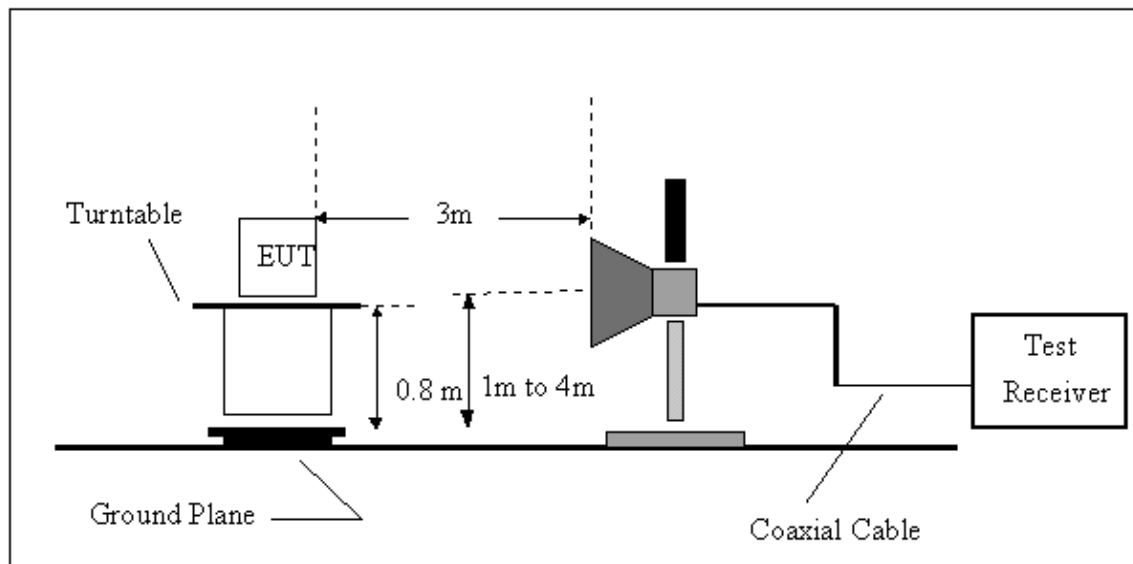
No deviation

4.1.5 TEST SETUP

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



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



4.1.6 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.



4.1.7 TEST RESULTS-BETWEEN 30MHZ - 1000MHZ

EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH06 (Antenna A)		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
57.16	V	50.22	-16.21	34.01	40.00	- 5.99	
64.92	V	51.87	-17.35	34.52	40.00	- 5.48	
276.38	V	48.89	-16.12	32.77	46.00	- 13.23	
460.68	V	48.51	-11.73	36.78	46.00	- 9.22	
596.48	V	44.70	-9.09	35.61	46.00	- 10.39	
699.30	V	42.11	-7.64	34.47	46.00	- 11.53	

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.



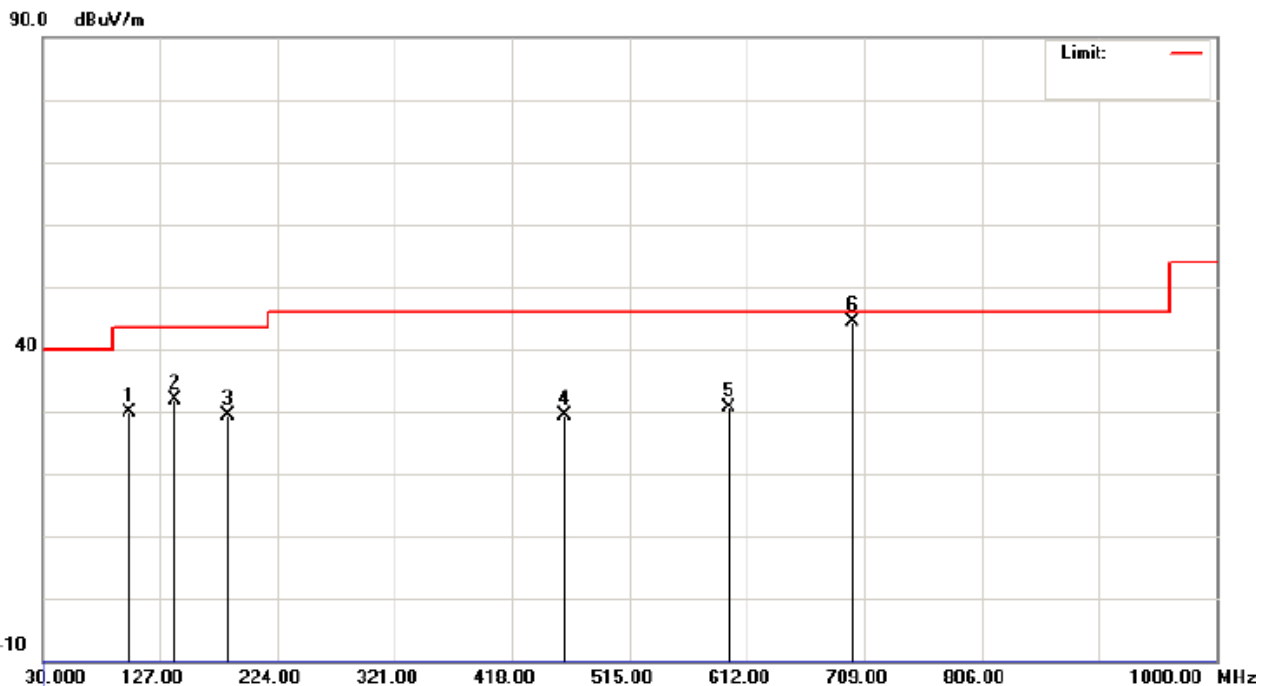


EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH06 (Antenna A)		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
101.78	H	48.54	-18.66	29.88	43.50	- 13.62	
138.64	H	47.32	-15.38	31.94	43.50	- 11.56	
183.26	H	46.89	-17.42	29.47	43.50	- 14.03	
460.68	H	41.22	-11.73	29.49	46.00	- 16.51	
596.48	H	39.77	-9.10	30.67	46.00	- 15.33	
699.30	H	52.14	-7.64	44.50	46.00	- 1.50	(QP)

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.



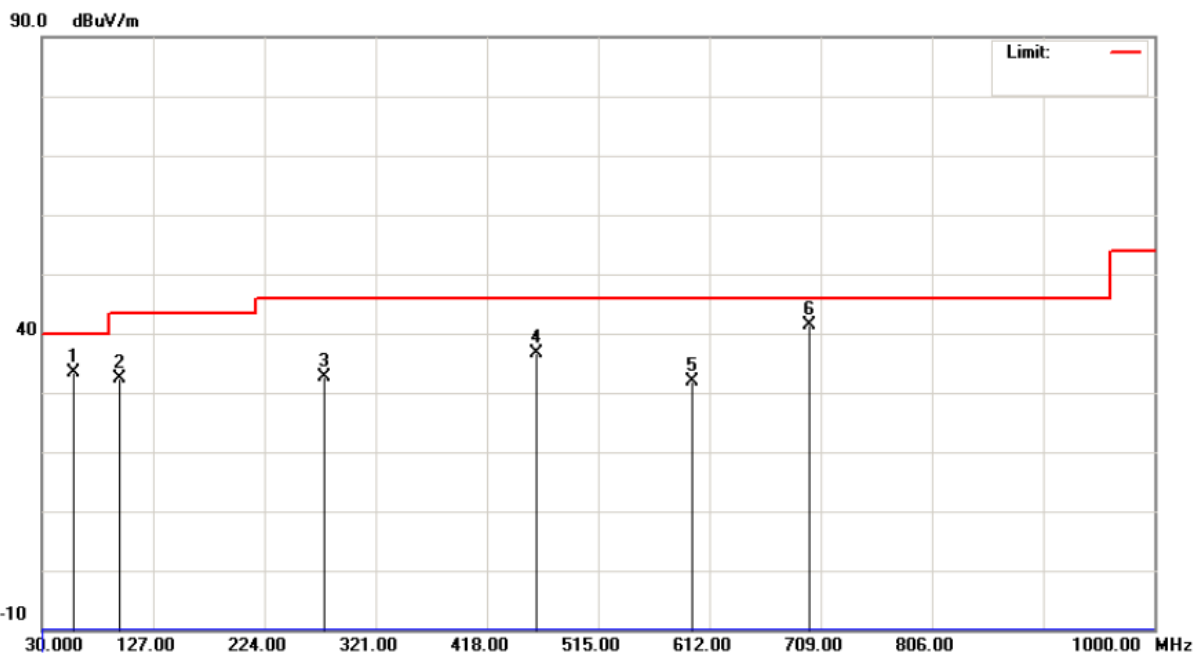


EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH06 (Antenna B)		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
57.16	V	49.49	-16.21	33.28	40.00	- 6.72	
97.90	V	51.35	-19.01	32.34	43.50	- 11.16	
276.38	V	48.70	-16.12	32.58	46.00	- 13.42	
460.68	V	48.36	-11.73	36.63	46.00	- 9.37	
596.48	V	40.96	-9.09	31.87	46.00	- 14.13	
699.30	V	49.08	-7.64	41.44	46.00	- 4.56	

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.



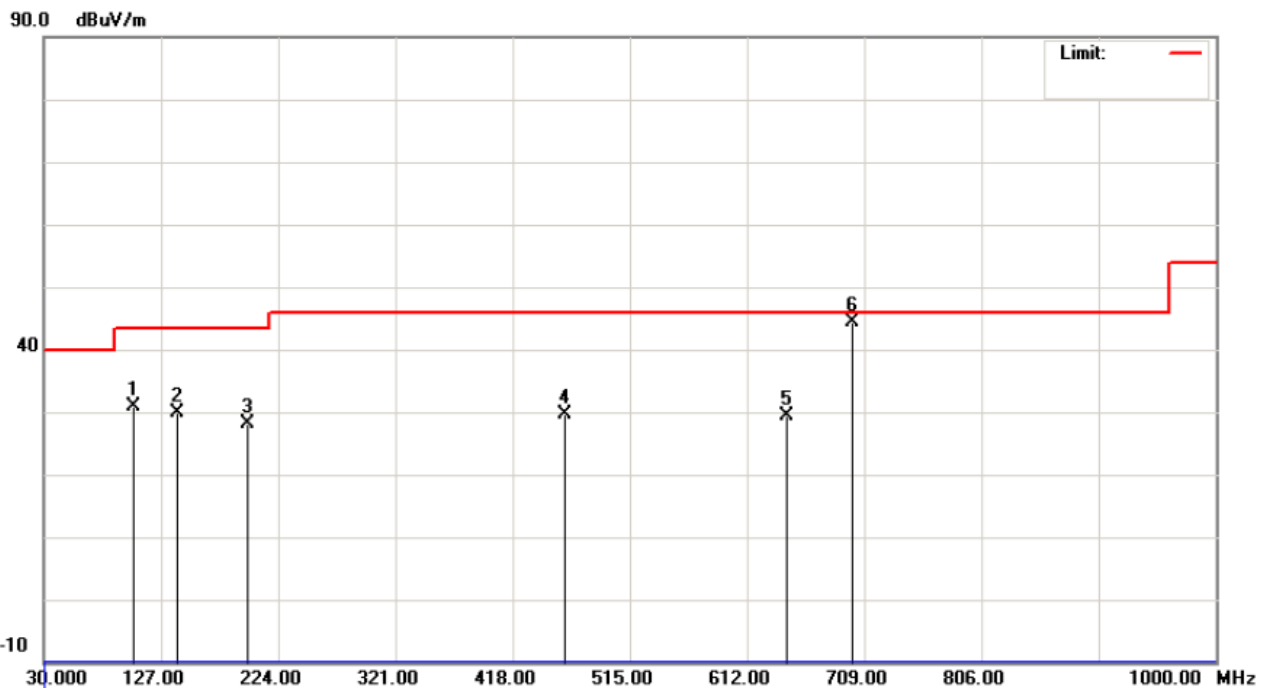


EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH06 (Antenna B)		

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
103.72	H	49.23	-18.47	30.76	43.50	- 12.74	
140.58	H	45.22	-15.22	30.00	43.50	- 13.50	
198.78	H	46.88	-18.66	28.22	43.50	- 15.28	
460.68	H	41.35	-11.73	29.62	46.00	- 16.38	
644.98	H	37.83	-8.37	29.46	46.00	- 16.54	
699.30	H	52.14	-7.64	44.50	46.00	- 1.50	(QP)

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.





4.1.8 TEST RESULTS - ABOVE 1000MHZ

EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH01 (Antenna A)		

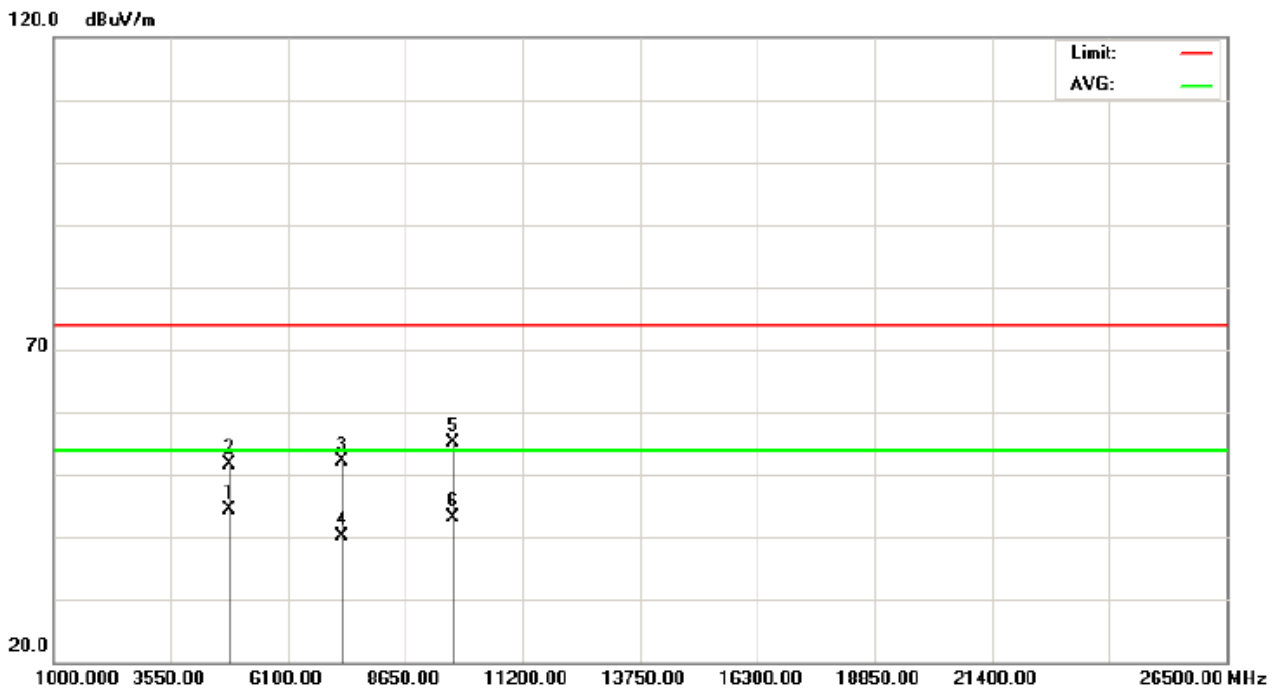
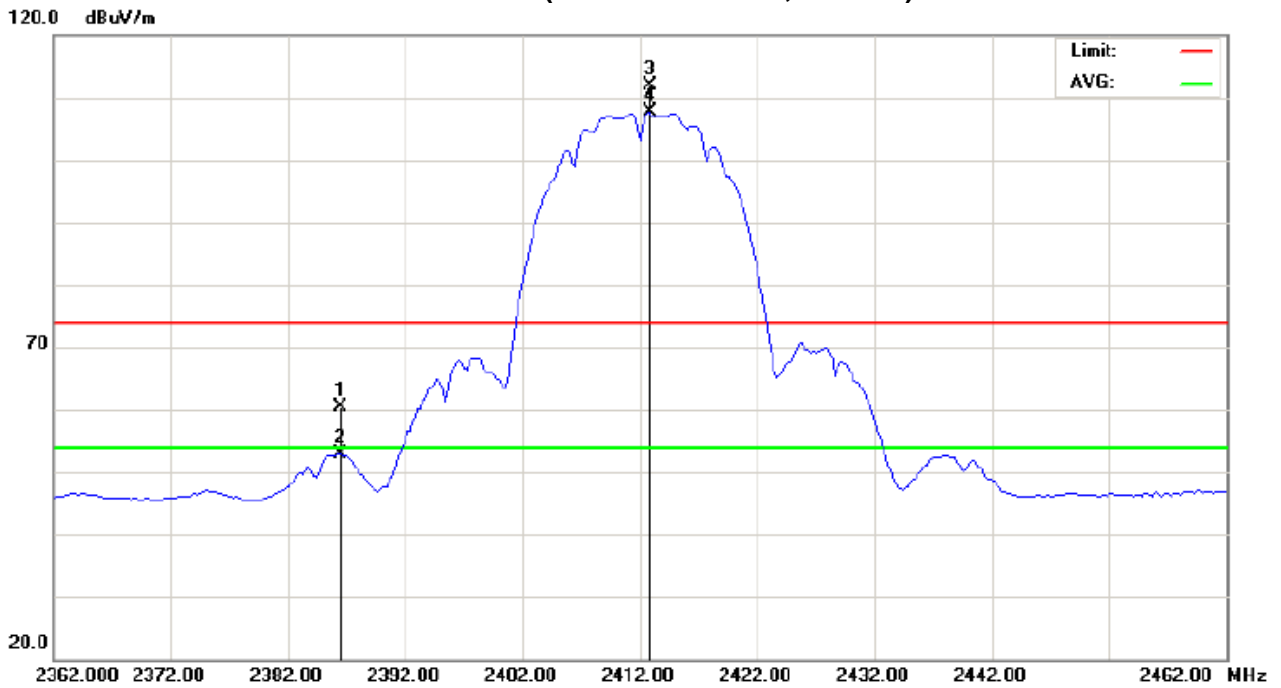
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2386.40	V	28.38	21.04	31.91	60.29	52.95	74.00	54.00	Y/H
2412.80	V	79.75	75.51	32.02	111.77	107.53			Y/F
4824.01	V	47.76	40.52	3.75	51.51	44.27	74.00	54.00	Y/H
7236.02	V	42.99	31.04	9.02	52.01	40.06	74.00	54.00	Y/H
9647.97	V	43.25	31.27	11.96	55.21	43.23	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11b/CH01(Above 1000 MHz, Vertical)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH01 (Antenna A)		

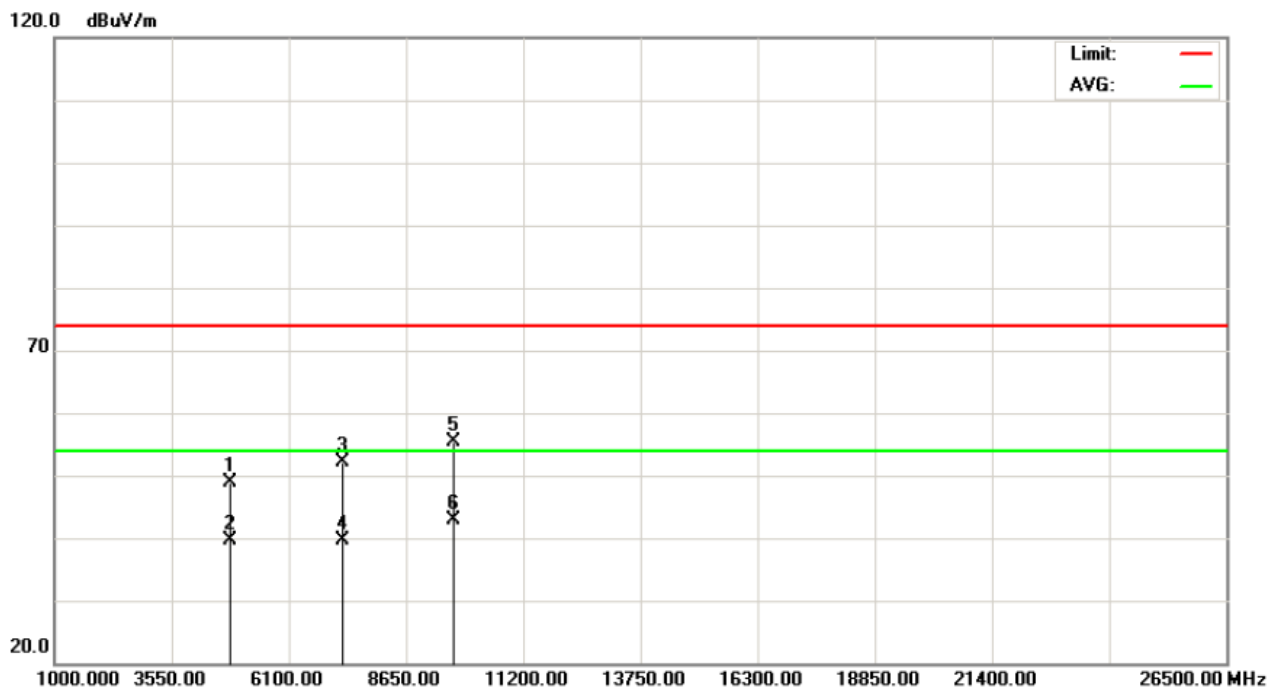
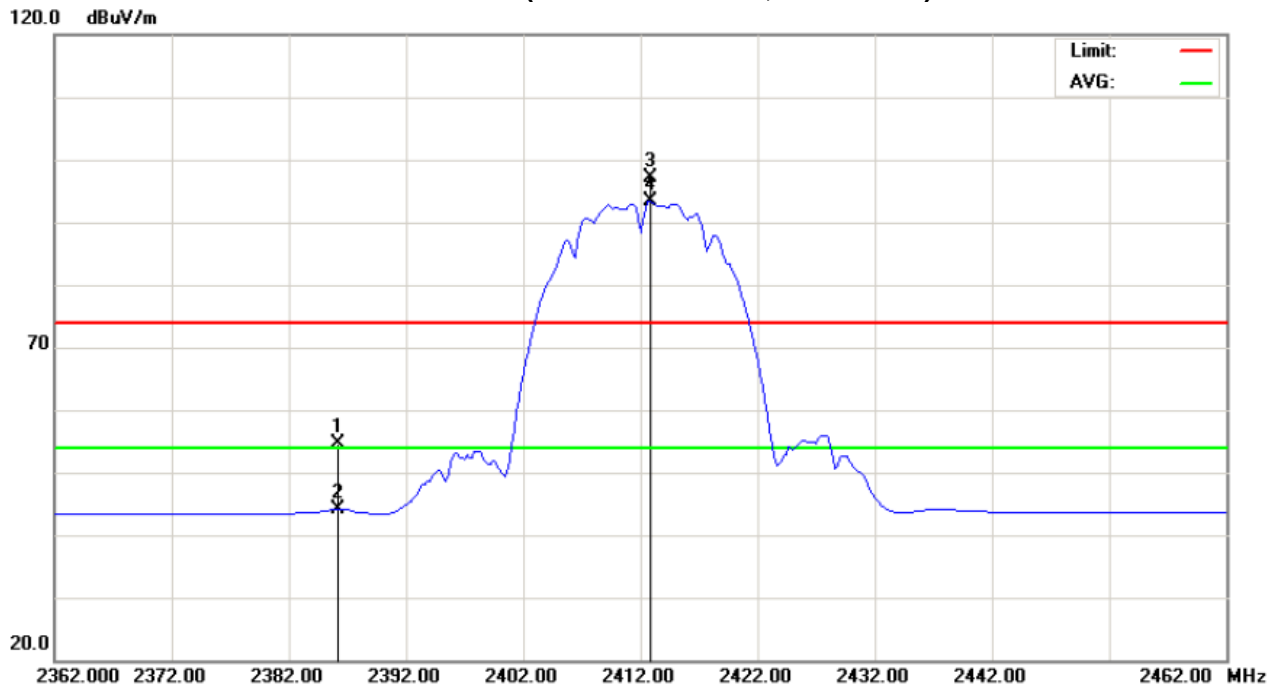
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2386.20	H	22.79	12.20	31.91	54.70	44.11	74.00	54.00	Y/H
2412.80	H	65.22	61.36	32.02	97.24	93.38			Y/F
4824.01	H	45.18	35.99	3.75	48.93	39.74	74.00	54.00	Y/H
7236.04	H	43.02	30.69	9.02	52.04	39.71	74.00	54.00	Y/H
9648.18	H	43.35	31.02	11.96	55.31	42.98	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11b/CH01(Above 1000 MHz, Horizontal)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH06 (Antenna A)		

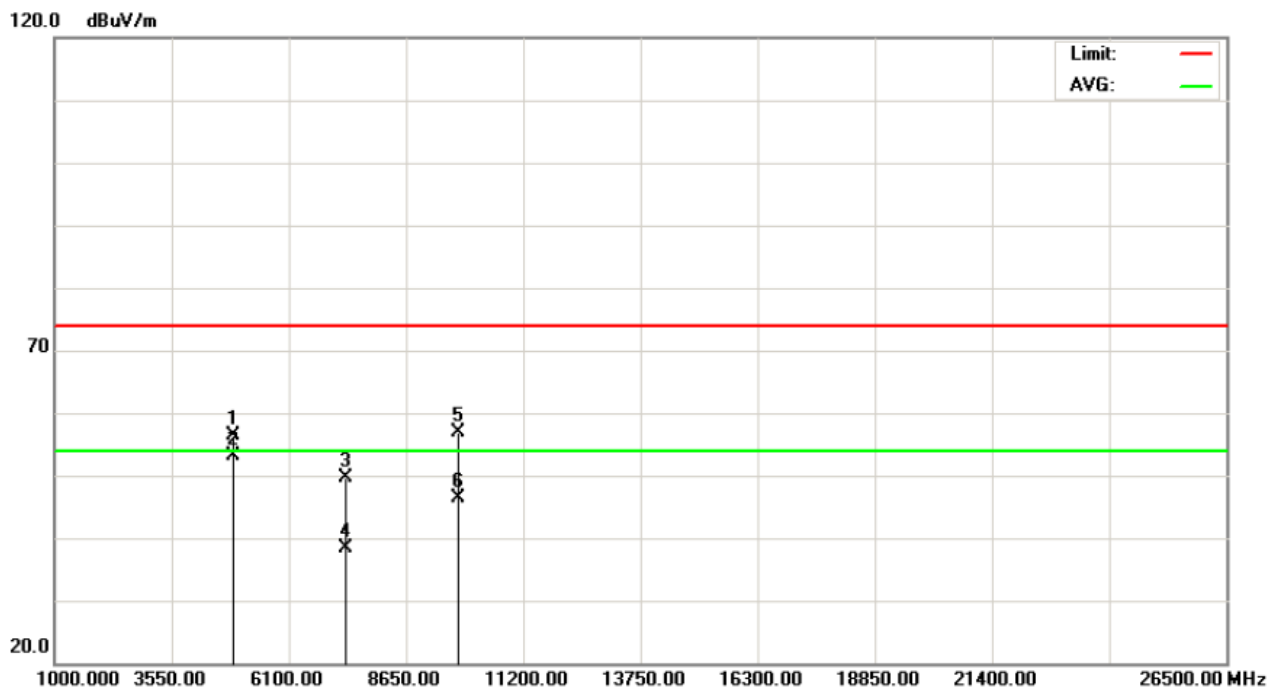
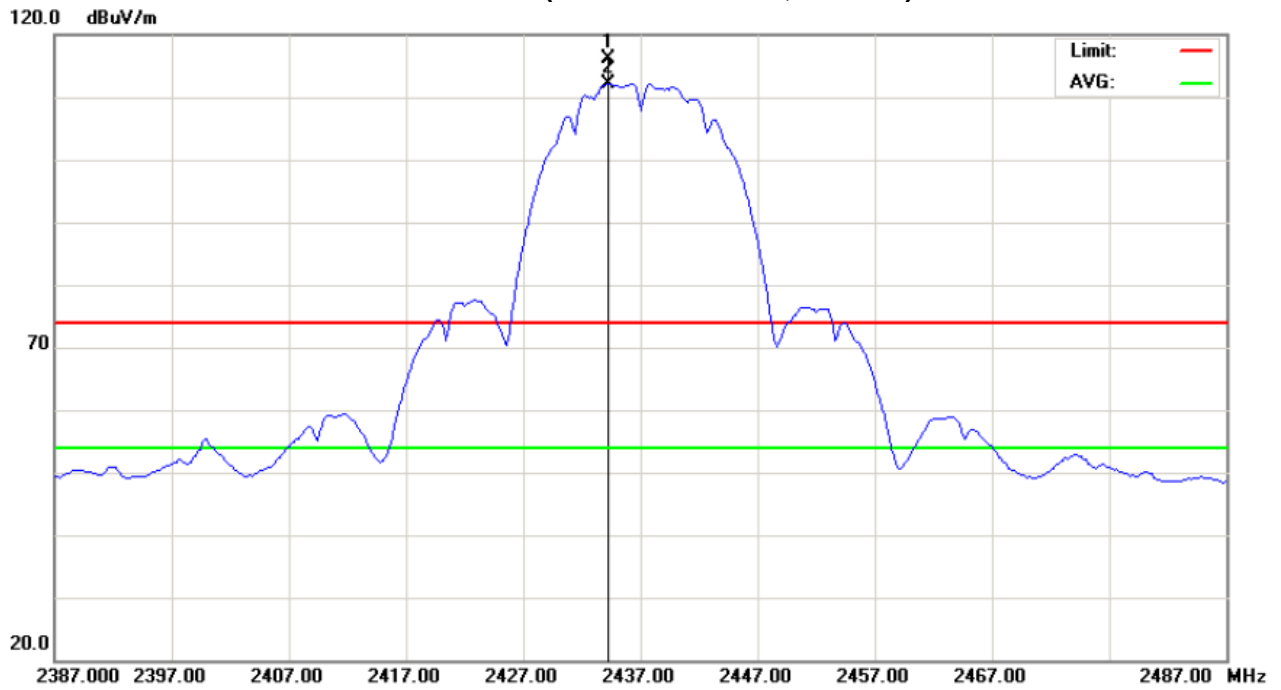
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2434.20	V	83.92	80.12	32.10	116.02	112.22			Y/F
4874.01	V	52.47	49.25	3.90	56.37	53.15	74.00	54.00	Y/H
7308.50	V	40.40	29.19	9.14	49.54	38.33	74.00	54.00	Y/H
9747.89	V	44.71	34.38	12.11	56.82	46.49	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11b/CH06(Above 1000 MHz, Vertical)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH06 (Antenna A)		

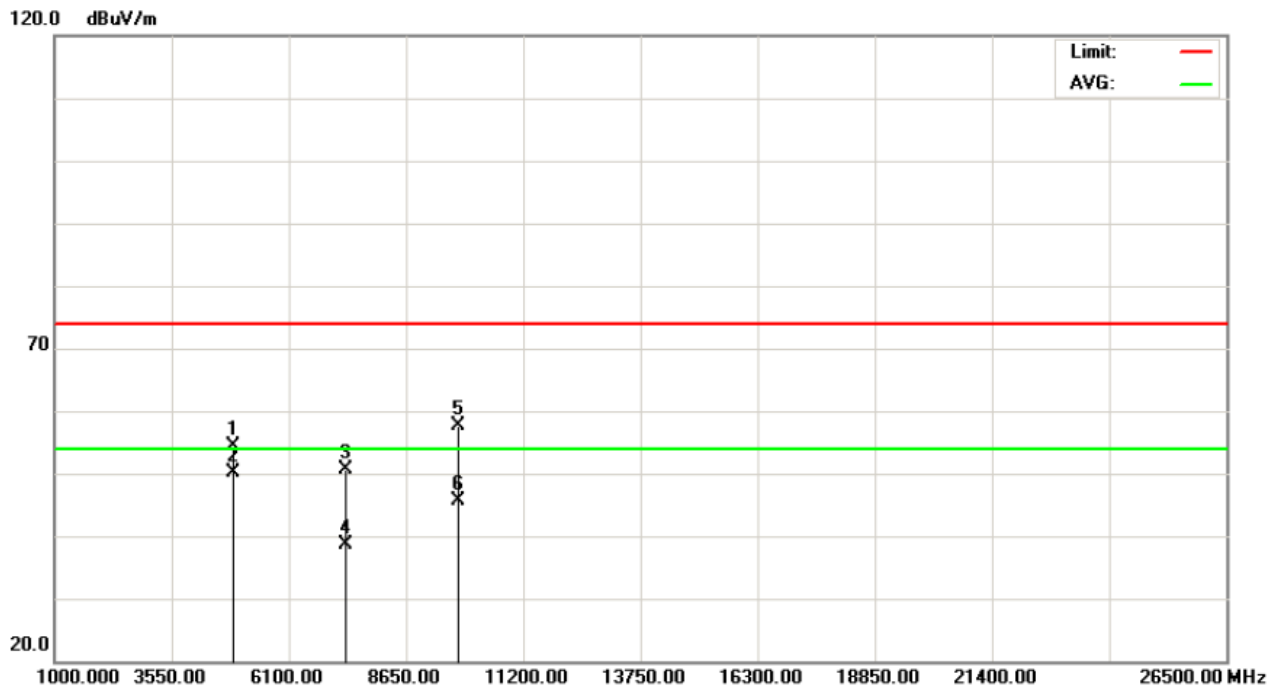
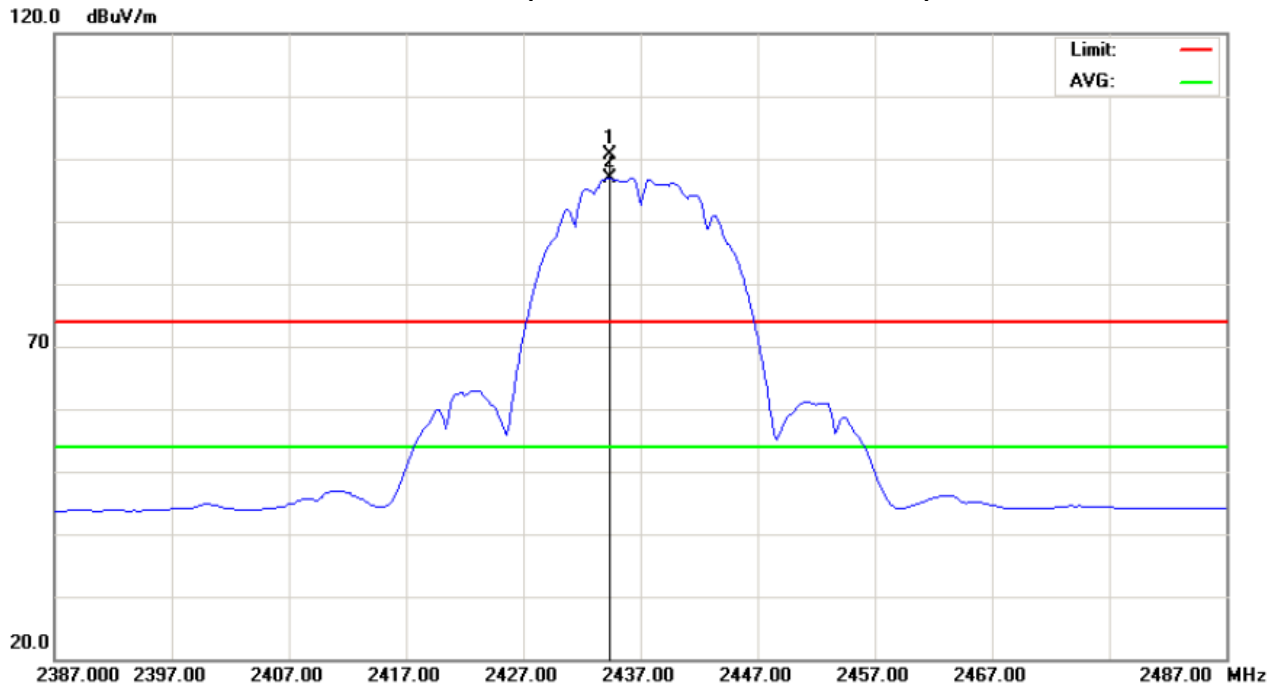
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2434.40	H	68.62	64.89	32.10	100.72	96.99			Y/F
4874.03	H	50.50	46.12	3.90	54.40	50.02	74.00	54.00	Y/F
7310.96	H	41.41	29.45	9.14	50.55	38.59	74.00	54.00	Y/F
9748.03	H	45.43	33.40	12.11	57.54	45.51	74.00	54.00	Y/F

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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11b/CH06(Above 1000 MHz, Horizontal)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH11 (Antenna A)		

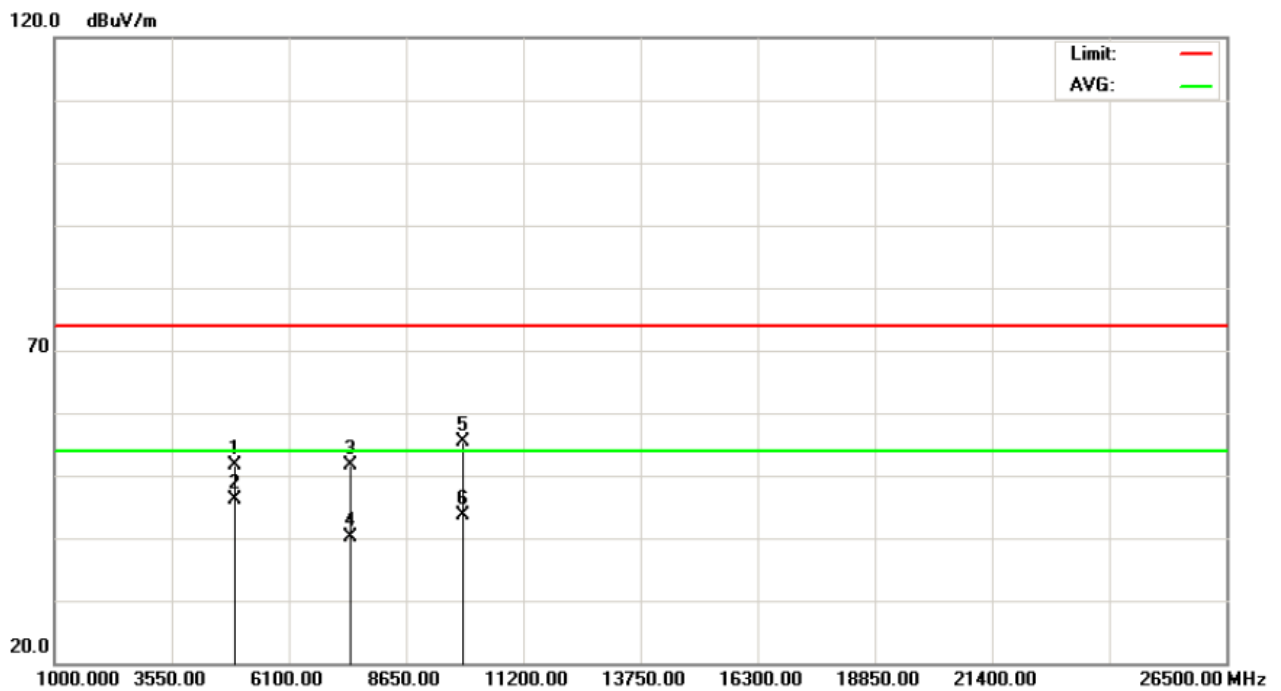
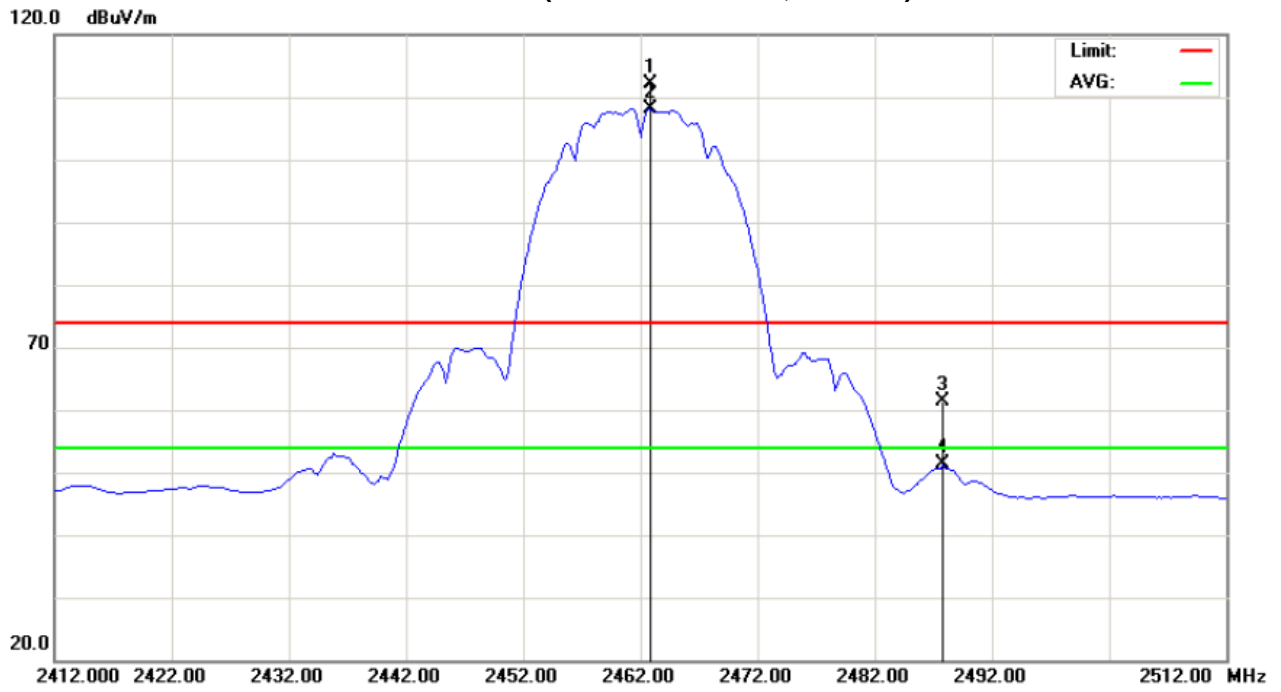
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2462.80	V	79.95	75.99	32.21	112.16	108.20			Y/F
2487.70	V	29.04	18.97	32.30	61.34	51.27	74.00	54.00	Y/H
4924.03	V	47.53	42.15	4.06	51.59	46.21	74.00	54.00	Y/H
7385.91	V	42.35	30.86	9.27	51.62	40.13	74.00	54.00	Y/H
9848.08	V	43.18	31.39	12.27	55.45	43.66	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11b/CH11(Above 1000 MHz, Vertical)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH11 (Antenna A)		

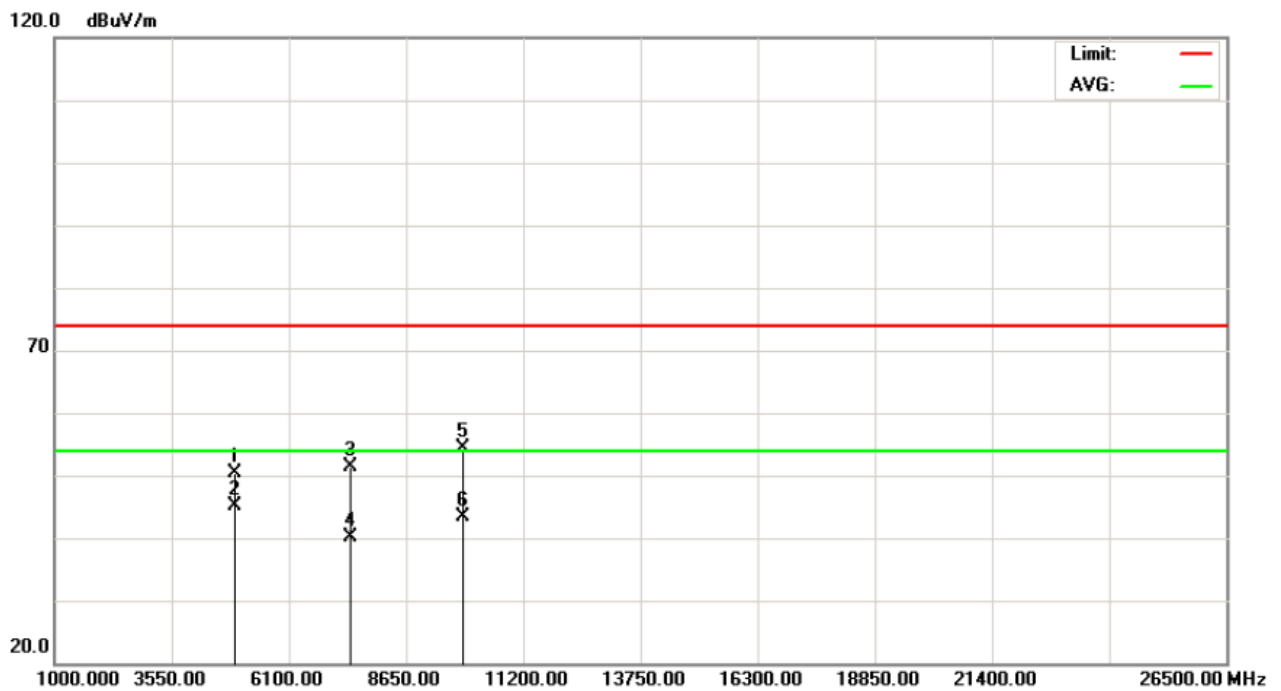
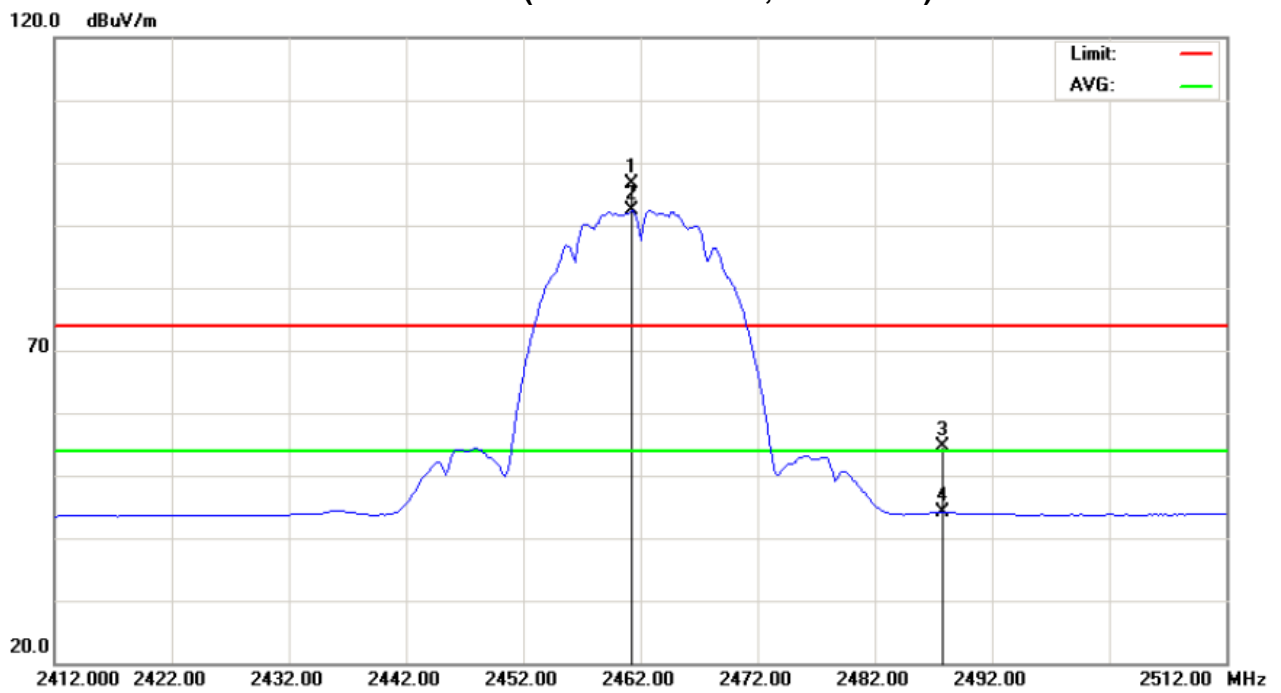
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2461.20	H	64.42	60.15	32.20	96.62	92.35			Y/F
2487.70	H	22.37	11.83	32.30	54.67	44.13	74.00	54.00	Y/H
4824.01	H	46.21	41.17	4.06	50.27	45.23	74.00	54.00	Y/H
7385.93	H	42.13	30.81	9.27	51.40	40.08	74.00	54.00	Y/H
9848.06	H	42.21	31.10	12.27	54.48	43.37	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11b/CH11(Above 1000 MHz, Horizontal)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH01 (Antenna B)		

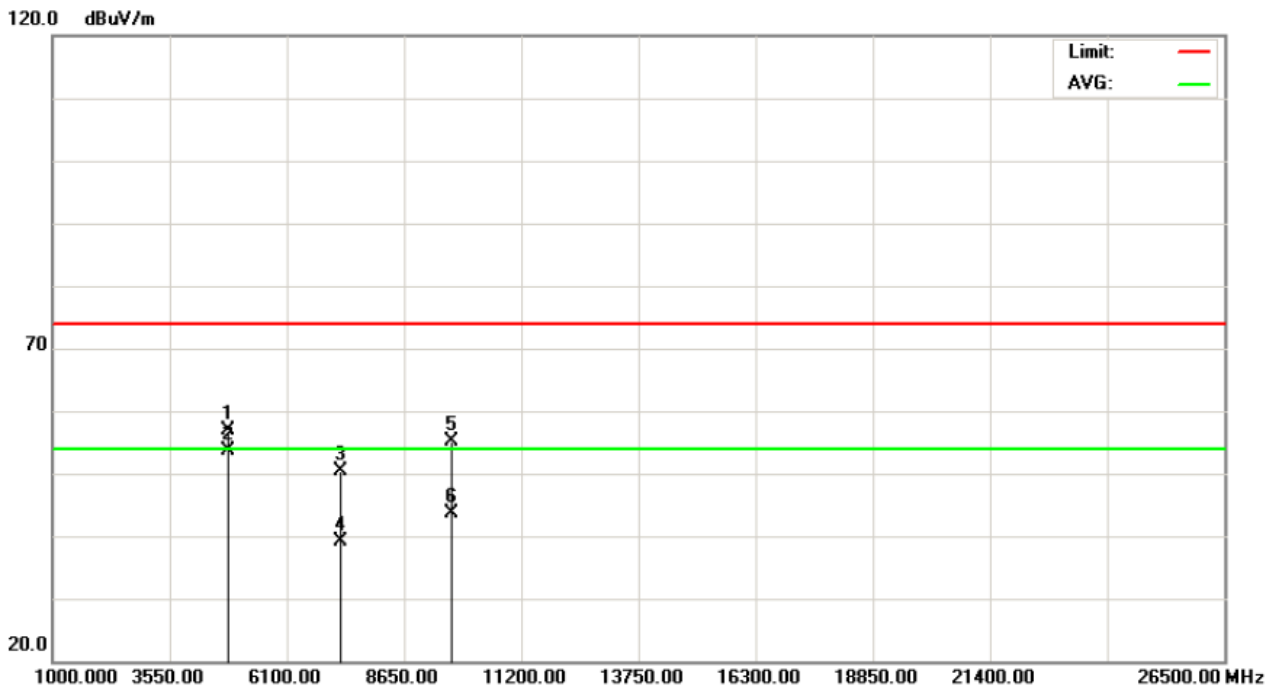
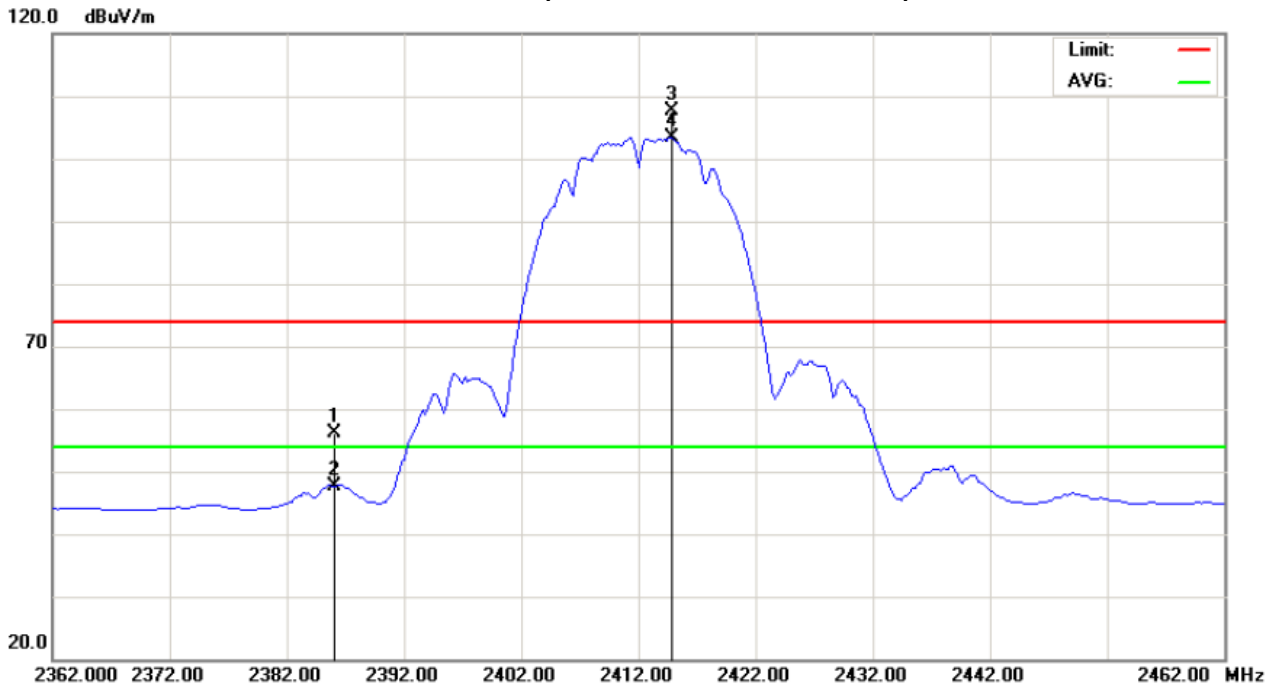
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2386.00	V	24.23	15.69	31.91	56.14	47.60	74.00	54.00	Y/H
2414.80	V	75.51	71.43	32.02	107.53	103.45			Y/F
4823.95	V	53.25	49.93	4.04	57.29	53.97	74.00	54.00	Y/H
7235.70	V	41.37	30.20	9.02	50.39	39.22	74.00	54.00	Y/H
9647.70	V	43.19	31.70	11.96	55.15	43.66	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11b/CH01(Above 1000 MHz, Vertical)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH01 (Antenna B)		

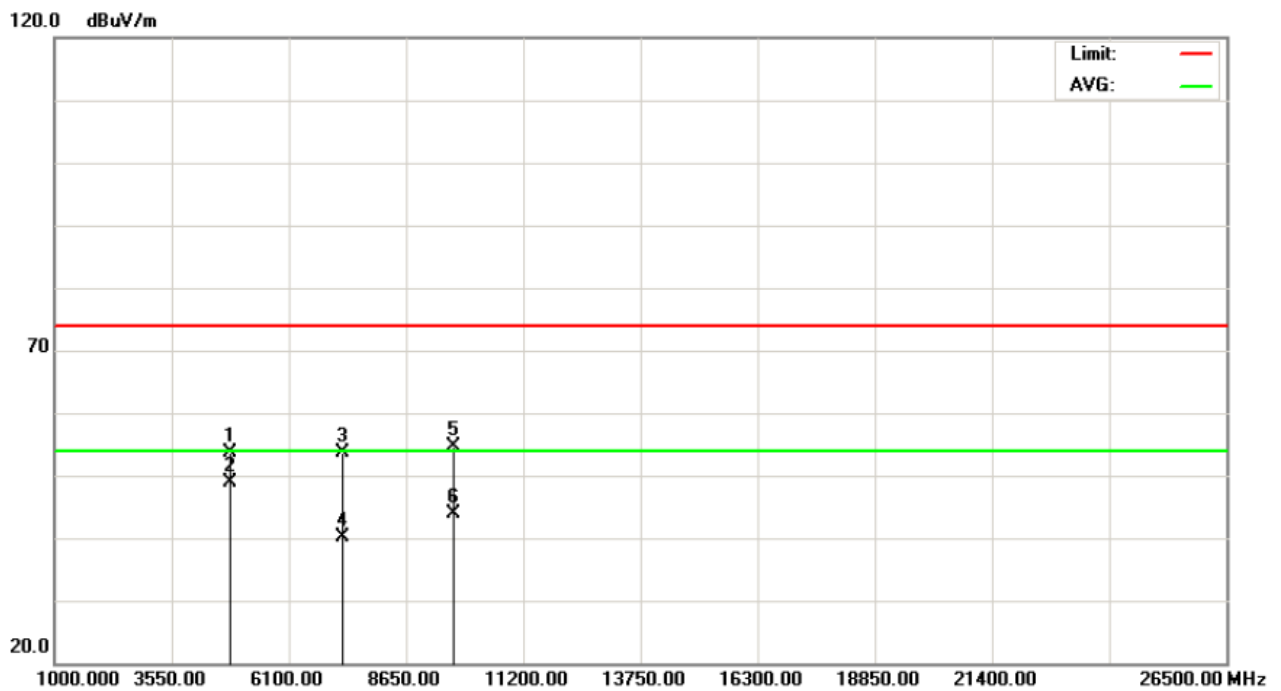
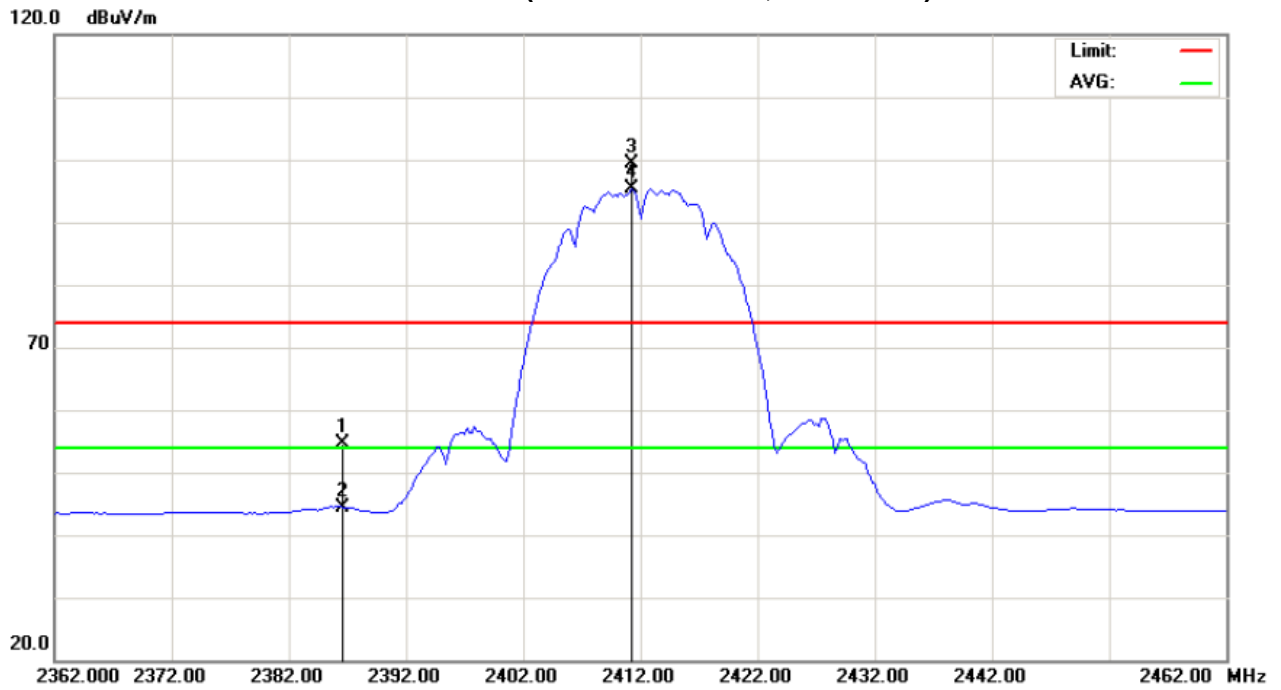
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2386.60	H	22.64	12.58	31.91	54.55	44.49	74.00	54.00	Y/H
2411.20	H	67.35	63.30	32.01	99.36	95.31			Y/F
4823.91	H	49.86	45.24	3.75	53.61	48.99	74.00	54.00	Y/H
7235.70	H	44.51	31.20	9.02	53.53	40.22	74.00	54.00	Y/H
9647.93	H	42.75	31.85	11.96	54.71	43.81	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11b/CH01(Above 1000 MHz, Horizontal)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH06 (Antenna B)		

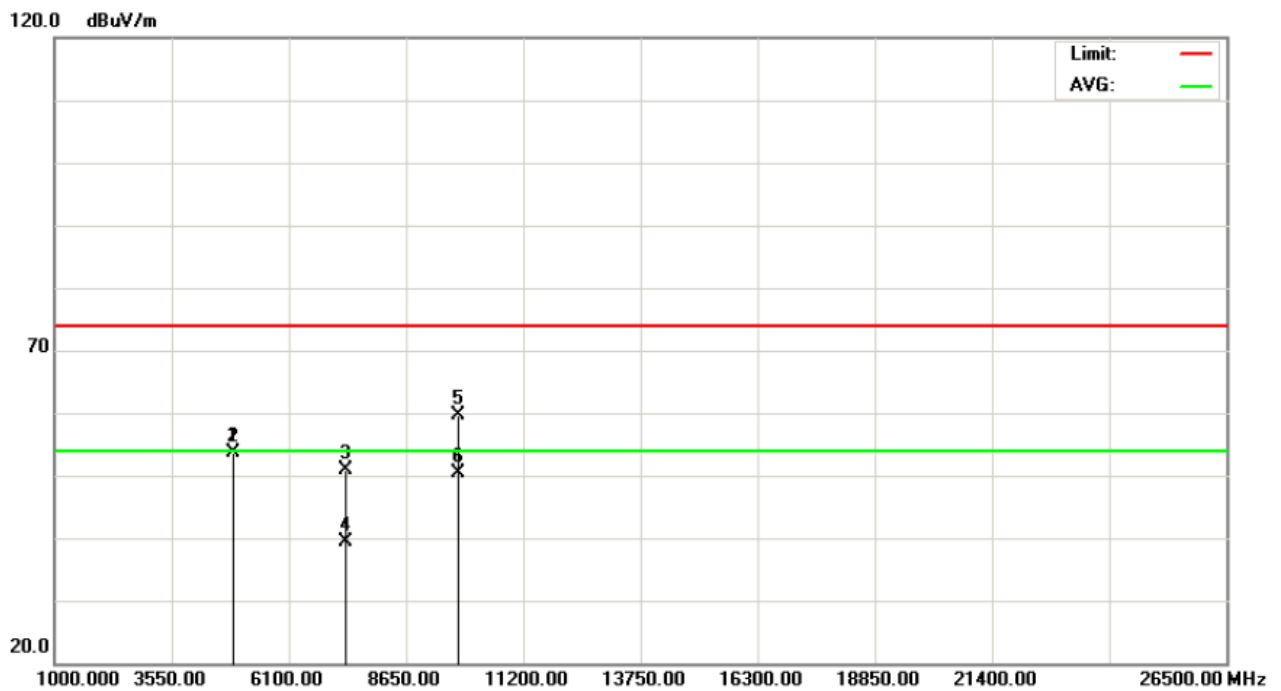
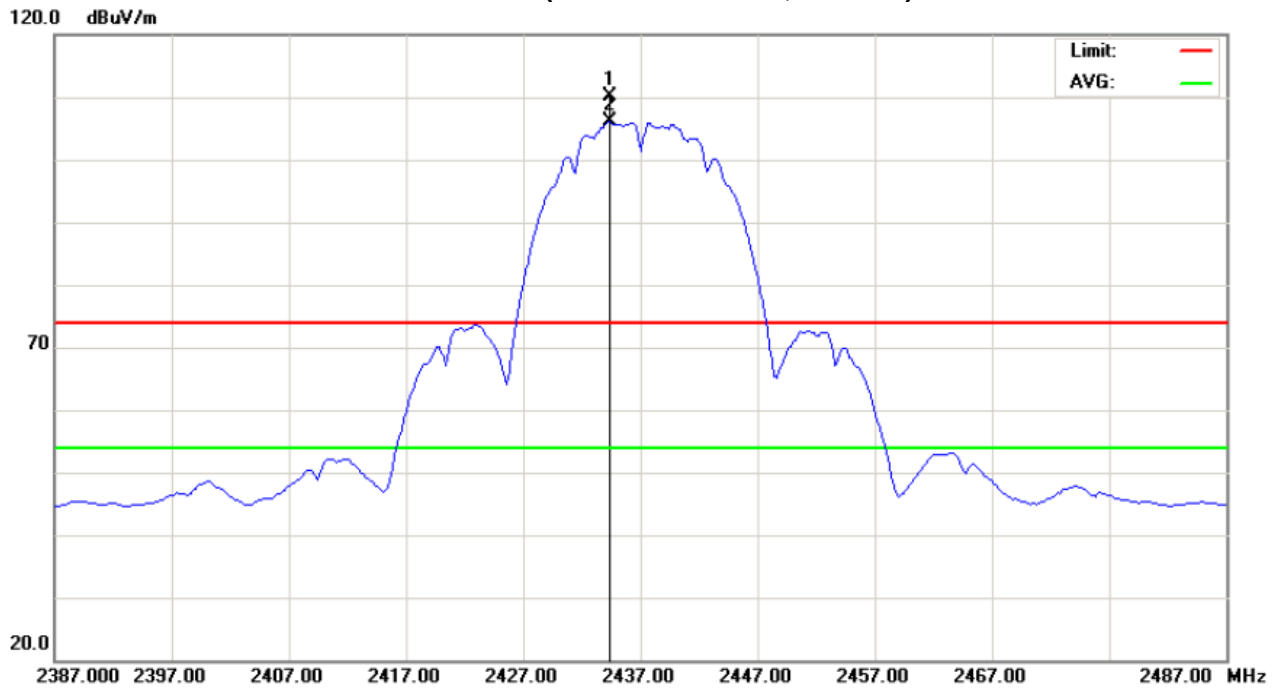
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2434.40	V	78.03	73.96	32.10	110.13	106.06			Y/F
4874.01	V	49.61	49.63	3.90	53.51	53.53	74.00	54.00	Y/H
7311.08	V	41.75	30.28	9.14	50.89	39.42	74.00	54.00	Y/H
9747.97	V	47.54	38.23	12.11	59.65	50.34	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11b/CH06(Above 1000 MHz, Vertical)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH06 (Antenna B)		

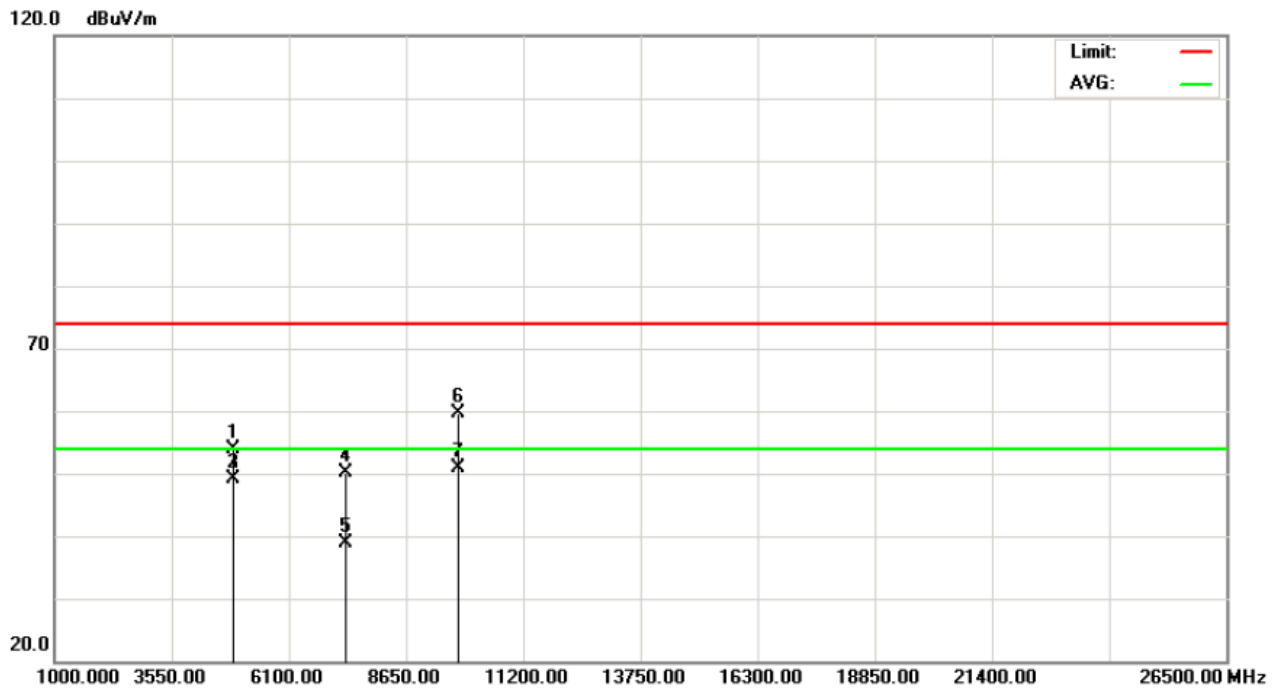
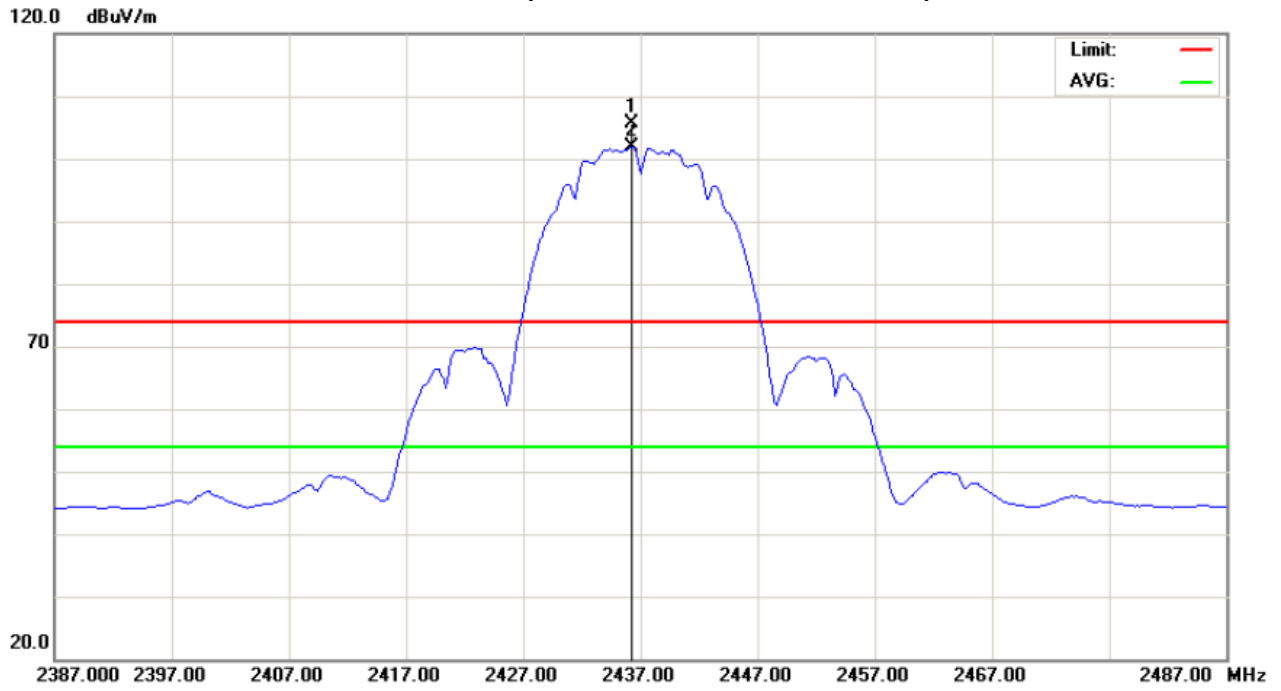
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2436.20	H	73.56	69.78	32.11	105.67	101.89			Y/F
4874.01	H	50.01	45.29	3.90	53.91	49.19	74.00	54.00	Y/H
7310.96	H	40.94	29.77	9.14	50.08	38.91	74.00	54.00	Y/H
9748.03	H	47.50	38.87	12.11	59.61	50.98	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11b/CH06(Above 1000 MHz, Horizontal)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH11 (Antenna B)		

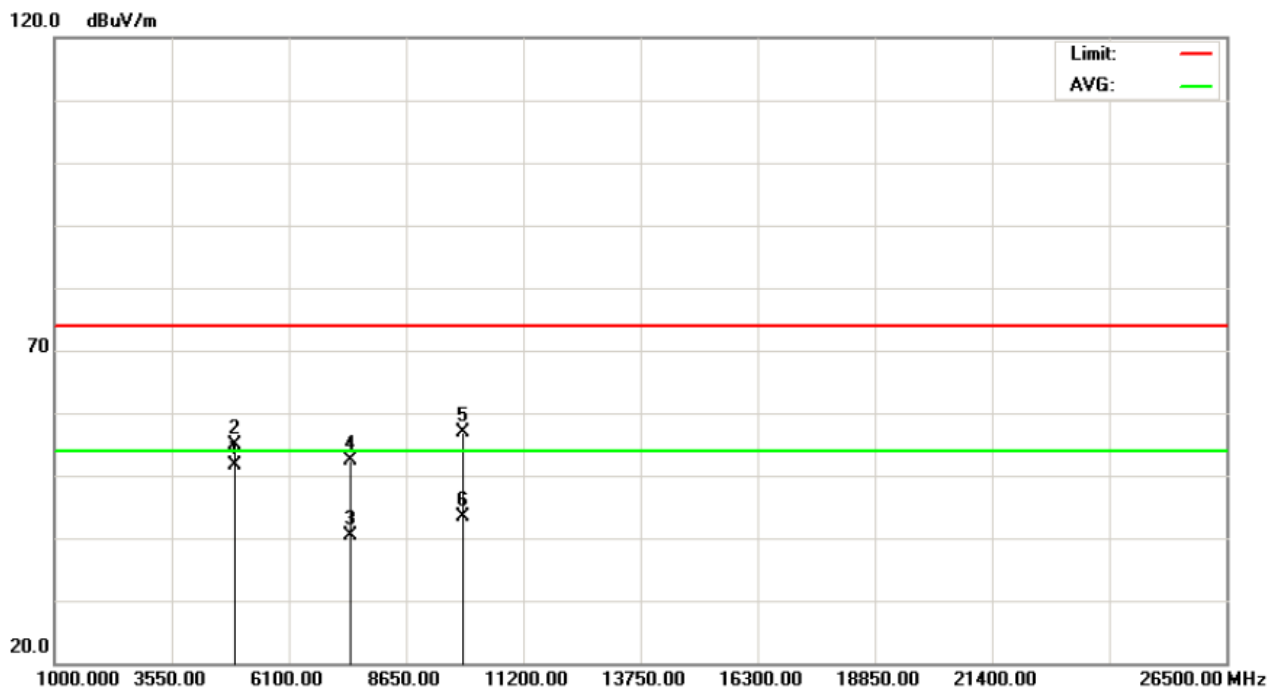
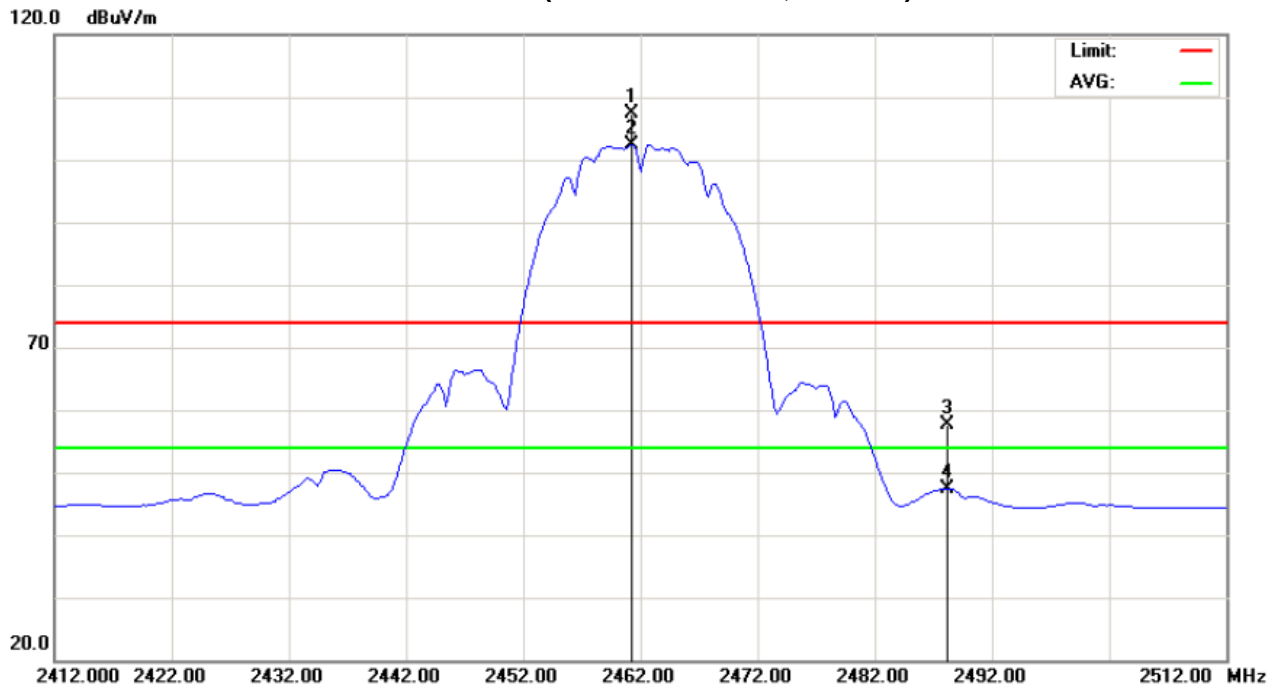
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2461.20	V	75.11	70.15	32.20	107.31	102.35			Y/F
2488.10	V	25.33	15.07	32.30	57.63	47.37	74.00	54.00	Y/H
4924.01	V	50.79	47.69	4.06	54.85	51.75	74.00	54.00	Y/H
7385.90	V	43.02	31.12	9.27	52.29	40.39	74.00	54.00	Y/H
9848.11	V	44.65	31.22	12.27	56.92	43.49	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11b/CH11(Above 1000 MHz, Vertical)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH11 (Antenna B)		

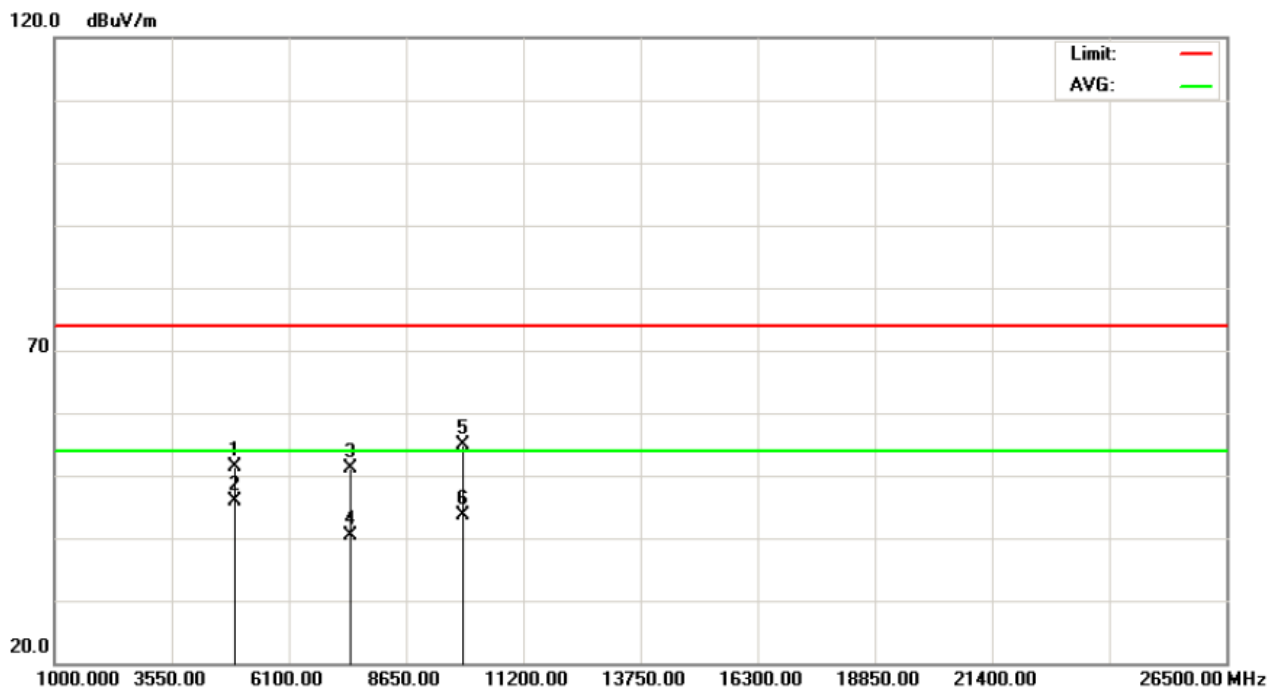
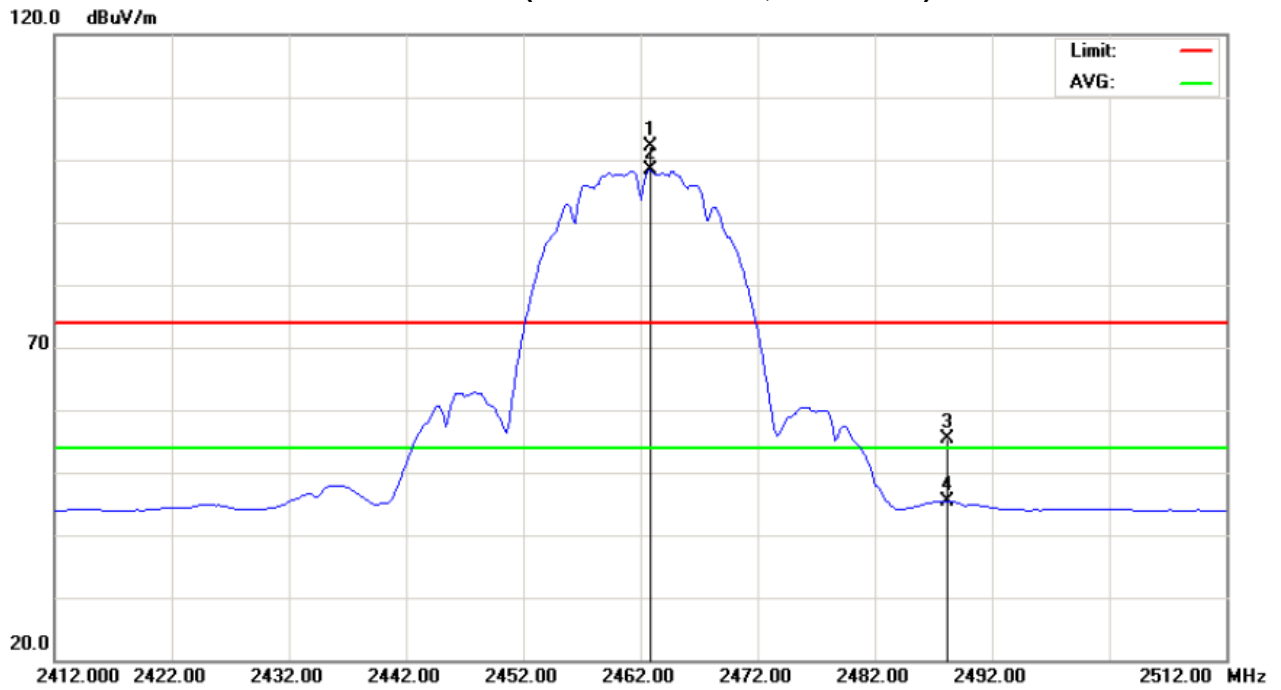
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2462.80	H	69.86	66.05	32.21	102.07	98.26			Y/F
2488.10	H	23.10	13.20	32.30	55.40	45.50	74.00	54.00	Y/H
4924.01	H	47.24	41.80	4.06	51.30	45.86	74.00	54.00	Y/H
7386.07	H	41.79	31.07	9.27	51.06	40.34	74.00	54.00	Y/H
9848.05	H	42.71	31.26	12.27	54.98	43.53	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11b/CH11(Above 1000 MHz, Horizontal)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH01 (Antenna A)		

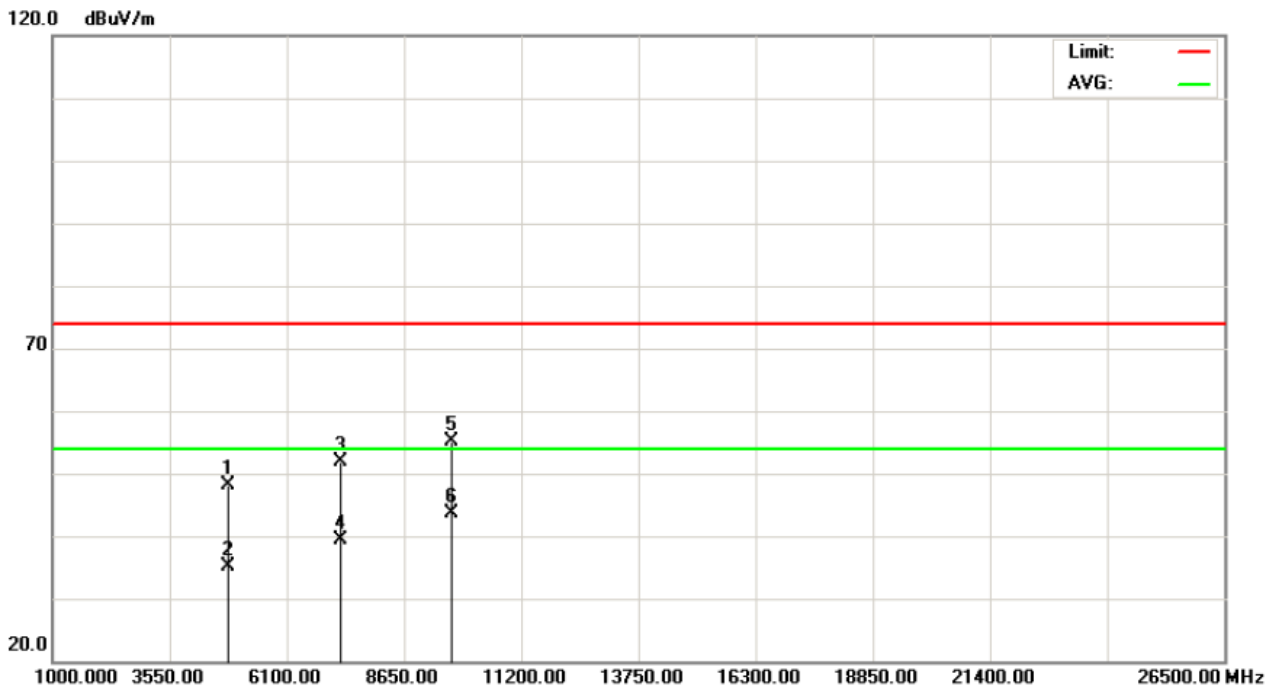
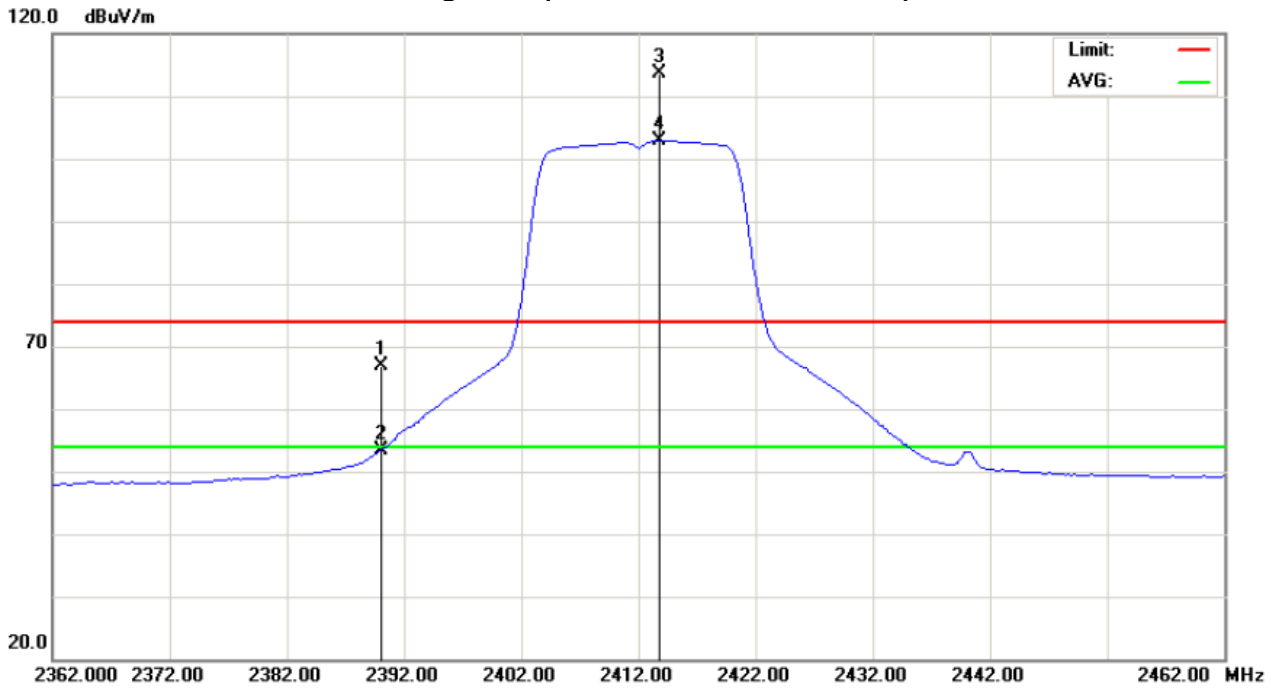
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	35.06	21.50	31.93	66.99	53.43	74.00	54.00	Y/H
2413.80	V	81.67	70.82	32.02	113.69	102.84			Y/F
4824.60	V	44.28	31.35	3.75	48.03	35.10	74.00	54.00	Y/H
7236.60	V	42.74	30.28	9.02	51.76	39.30	74.00	54.00	Y/H
9647.70	V	43.08	31.55	11.96	55.04	43.51	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11g/CH01(Above 1000 MHz, Vertical)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH01 (Antenna A)		

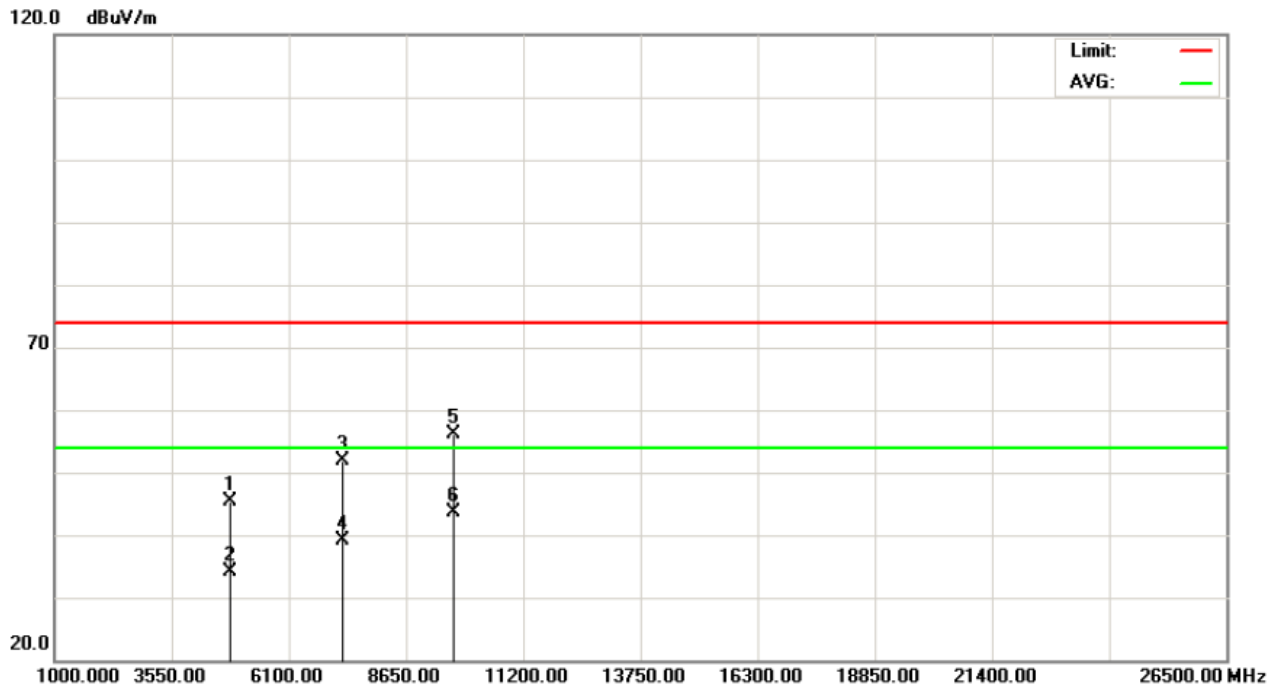
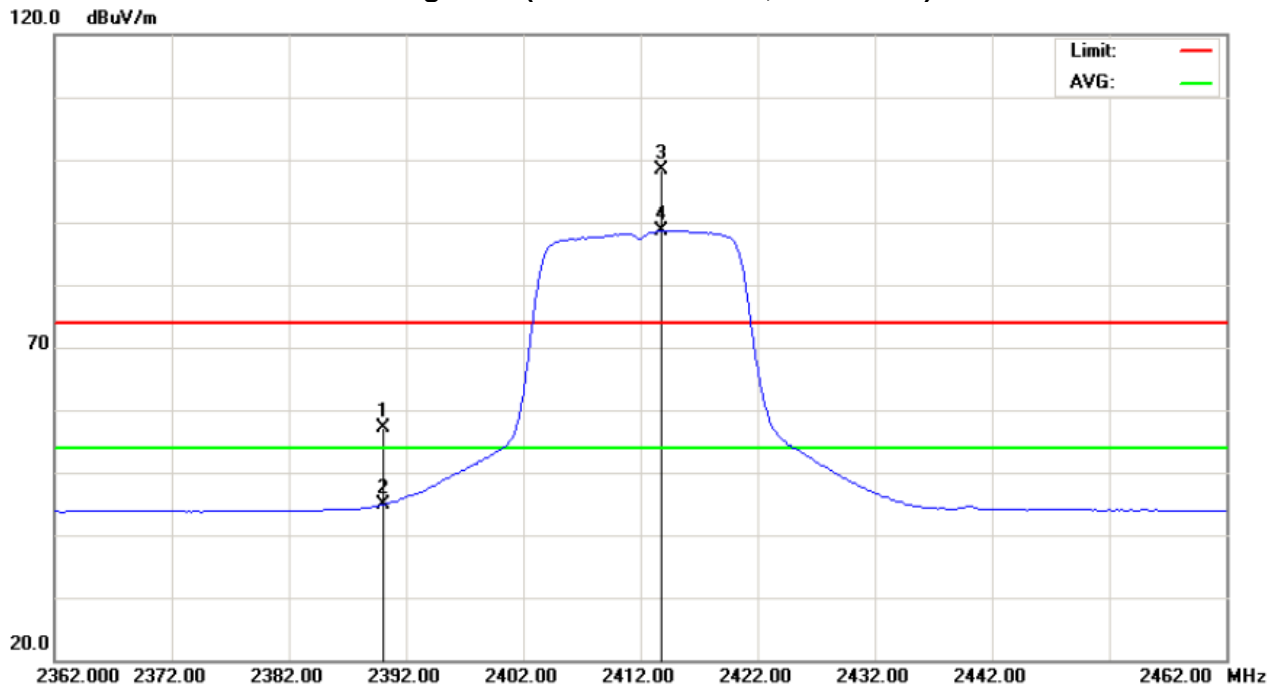
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	25.24	12.92	31.93	57.17	44.85	74.00	54.00	Y/H
2413.80	H	66.24	56.66	32.02	98.26	88.68			Y/F
4823.60	H	41.73	30.32	3.75	45.48	34.07	74.00	54.00	Y/H
7235.80	H	42.78	30.06	9.02	51.80	39.08	74.00	54.00	Y/H
9647.60	H	44.12	31.60	11.96	56.08	43.56	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11g/CH01(Above 1000 MHz, Horizontal)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH06 (Antenna A)		

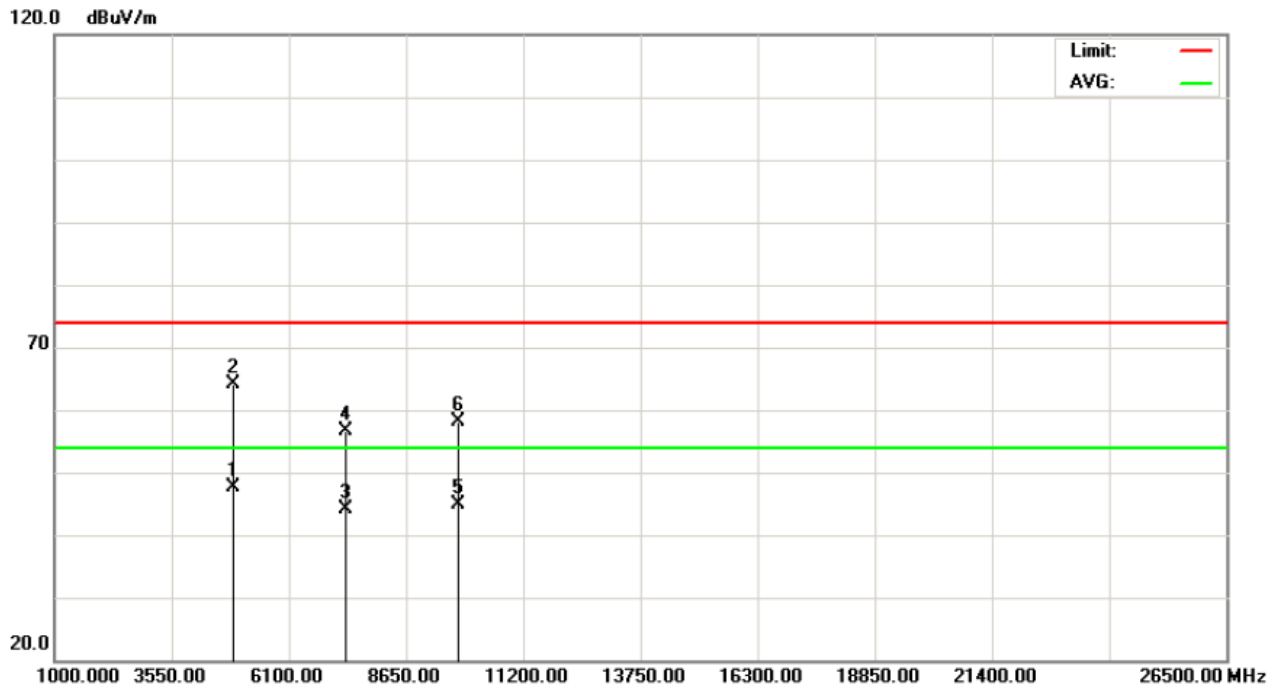
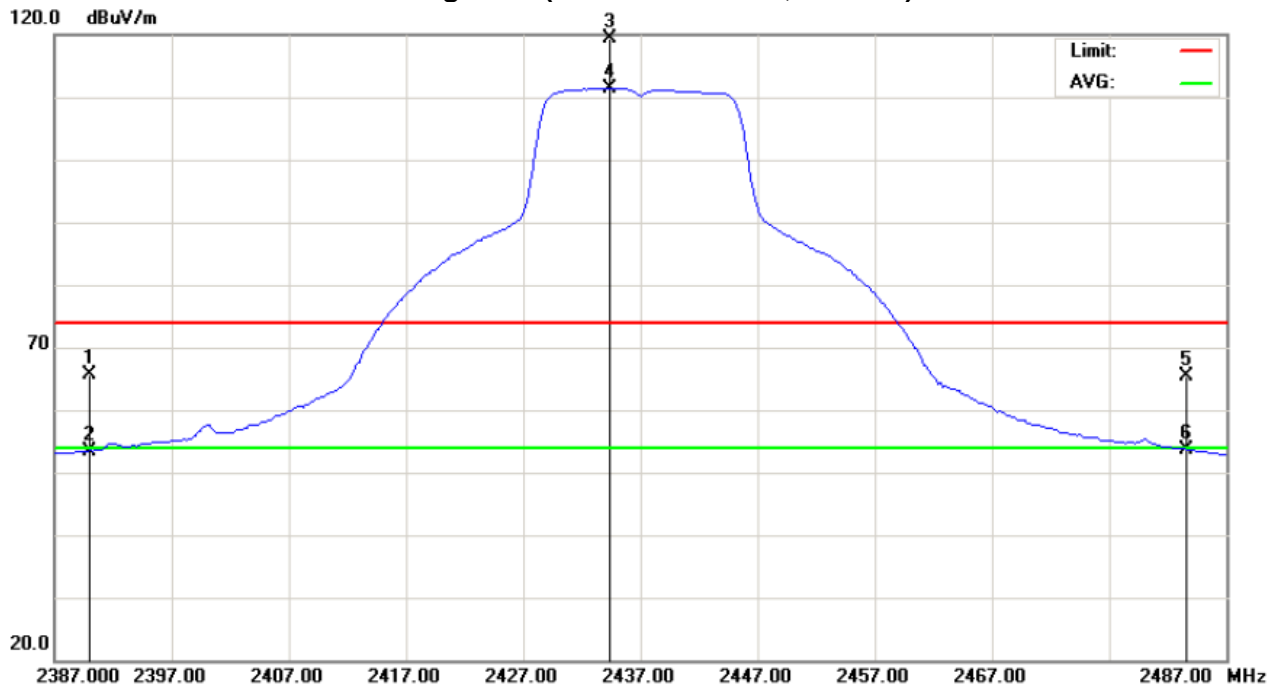
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	33.77	21.57	31.93	65.70	53.50	74.00	54.00	Y/E
2434.40	V	87.40	79.33	32.10	119.50	111.43			Y/F
2483.50	V	33.18	21.46	32.29	65.47	53.75	74.00	54.00	Y/H
4873.70	V	60.25	43.79	3.90	64.15	47.69	74.00	54.00	Y/H
7311.10	V	47.53	34.97	9.14	56.67	44.11	74.00	54.00	Y/H
9748.80	V	46.05	32.73	12.11	58.16	44.84	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11g/CH06(Above 1000 MHz, Vertical)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH06 (Antenna A)		

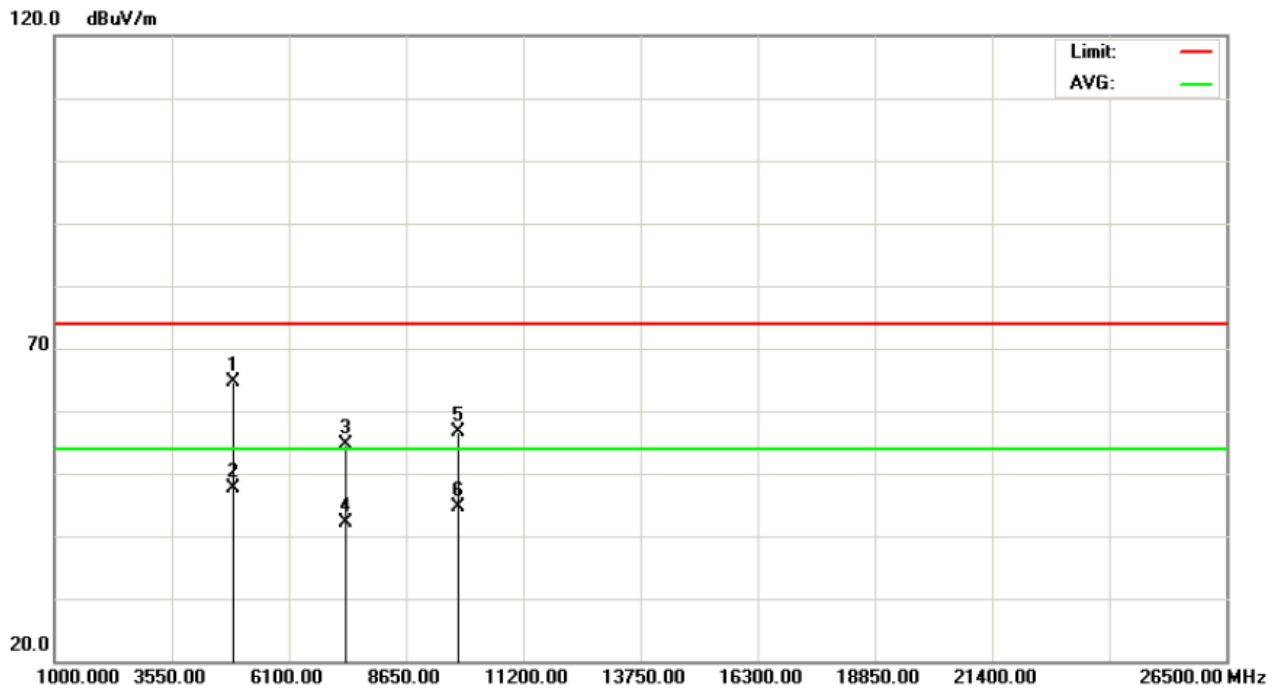
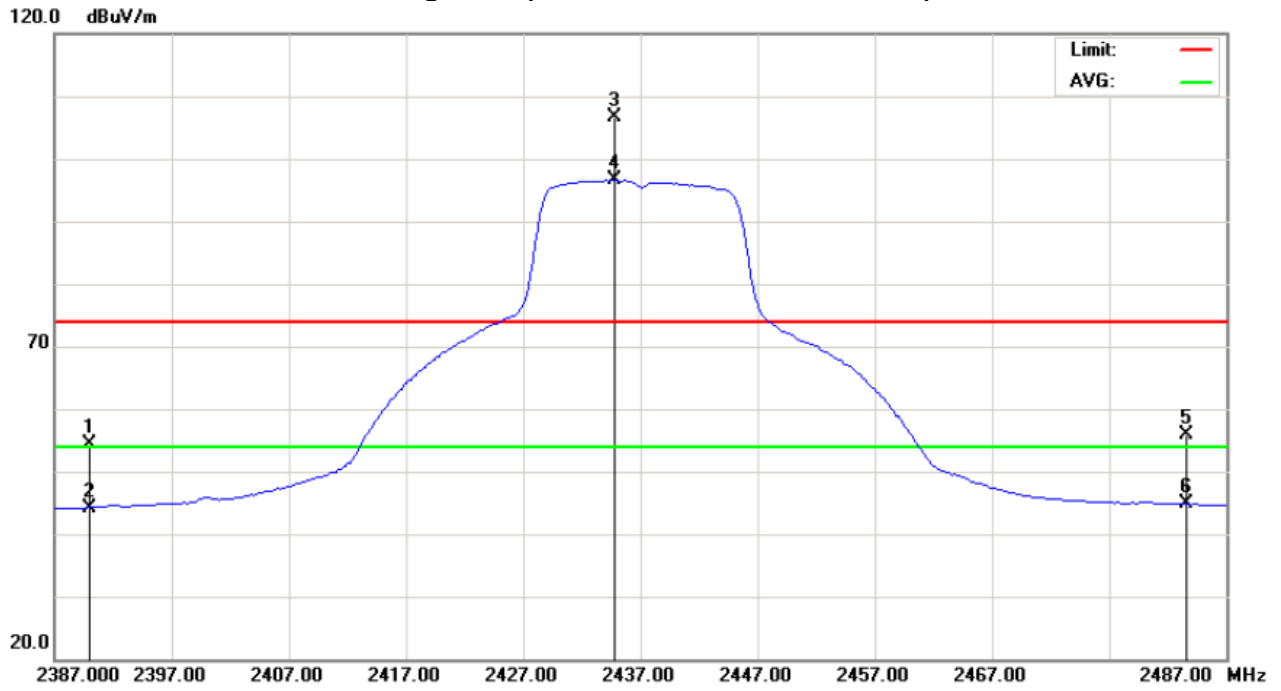
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	22.41	12.32	31.93	54.34	44.25	74.00	54.00	Y/E
2434.80	H	74.65	65.44	32.10	106.75	97.54			Y/F
2483.50	H	23.71	12.50	32.29	56.00	44.79	74.00	54.00	Y/H
4874.40	H	60.65	43.72	3.91	64.56	47.63	74.00	54.00	Y/H
7311.60	H	45.43	33.01	9.14	54.57	42.15	74.00	54.00	Y/H
9749.50	H	44.63	32.56	12.11	56.74	44.67	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11g/CH06(Above 1000 MHz, Horizontal)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH11 (Antenna A)		

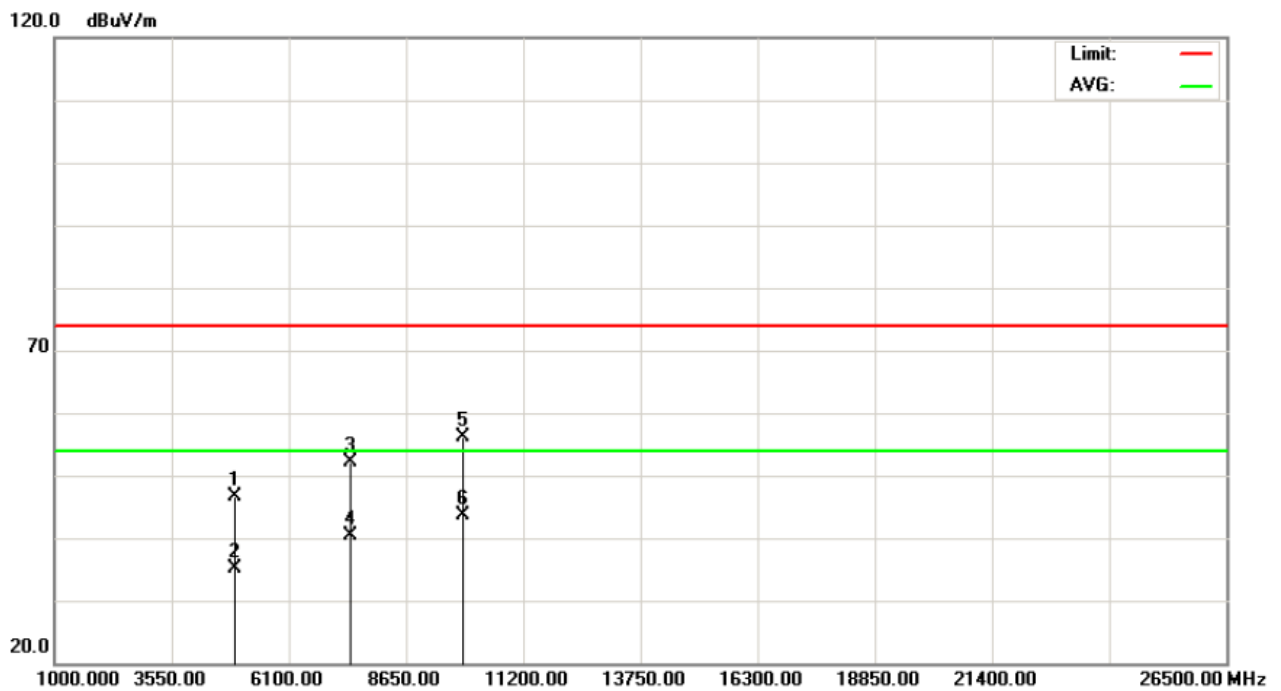
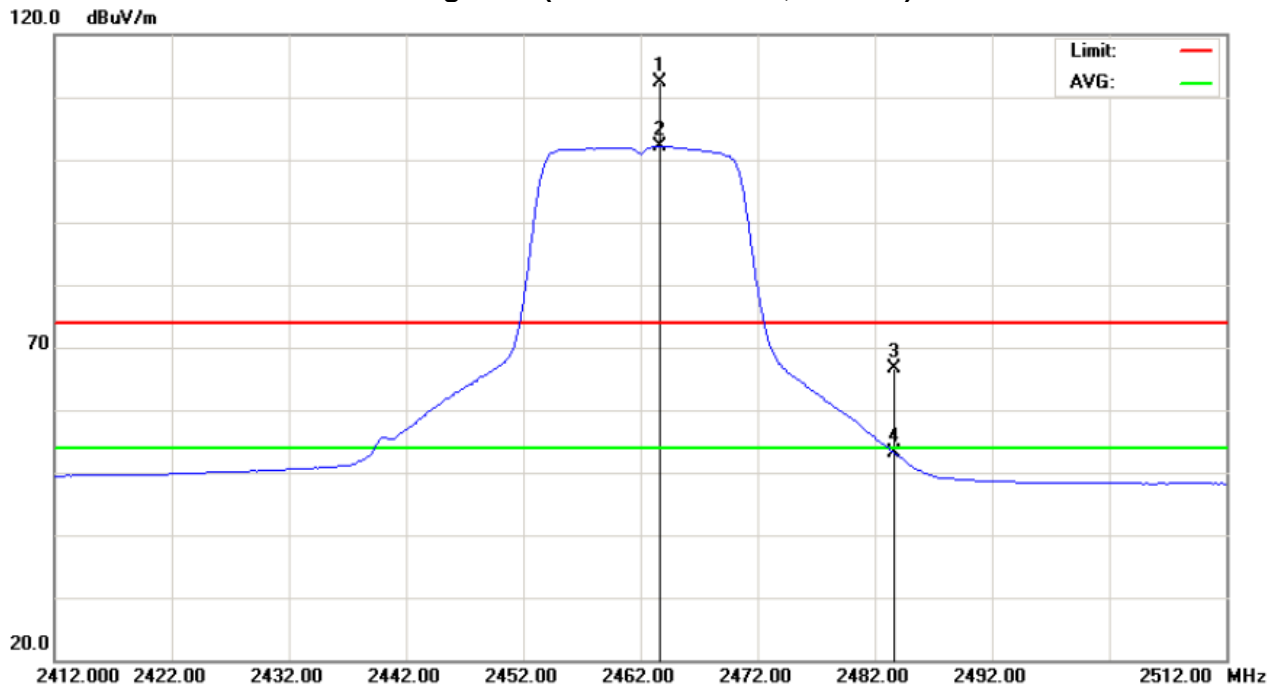
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2463.60	V	80.27	69.94	32.21	112.48	102.15			Y/F
2483.50	V	34.27	20.92	32.29	66.56	53.21	74.00	54.00	Y/E
4924.00	V	42.64	31.17	4.06	46.70	35.23	74.00	54.00	Y/H
7385.30	V	42.76	31.22	9.26	52.02	40.48	74.00	54.00	Y/H
9848.50	V	43.81	31.45	12.27	56.08	43.72	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11g/CH11(Above 1000 MHz, Vertical)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH11 (Antenna A)		

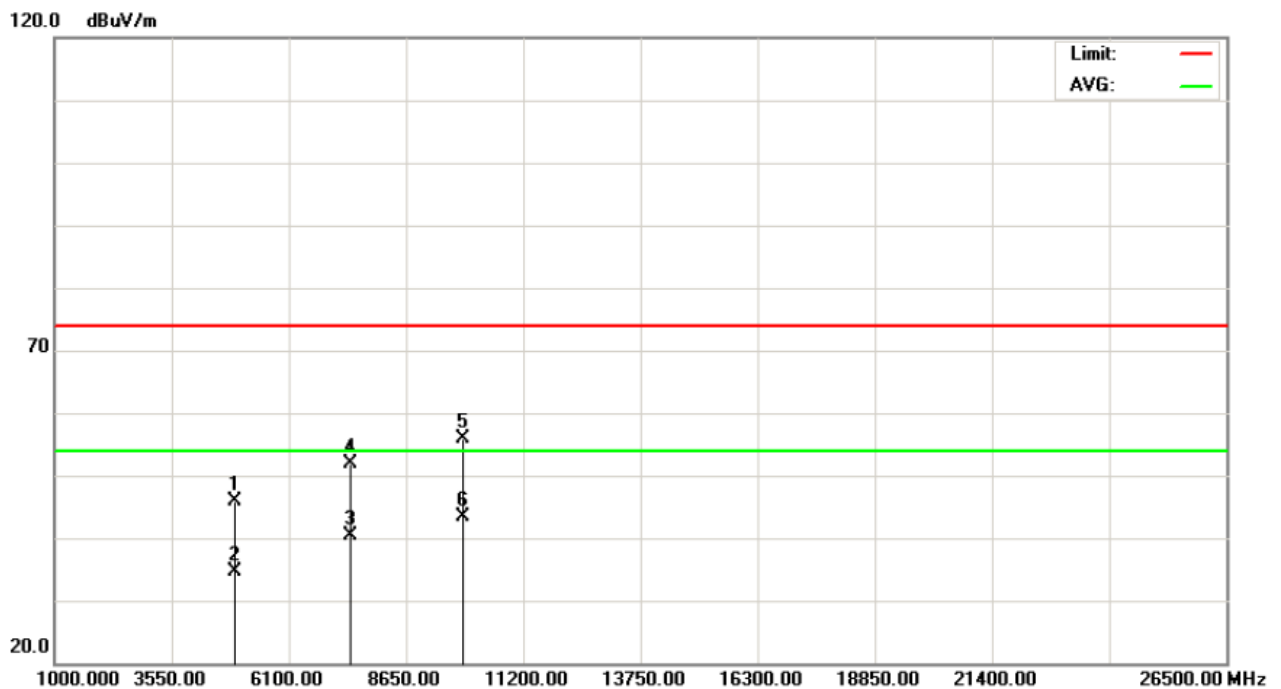
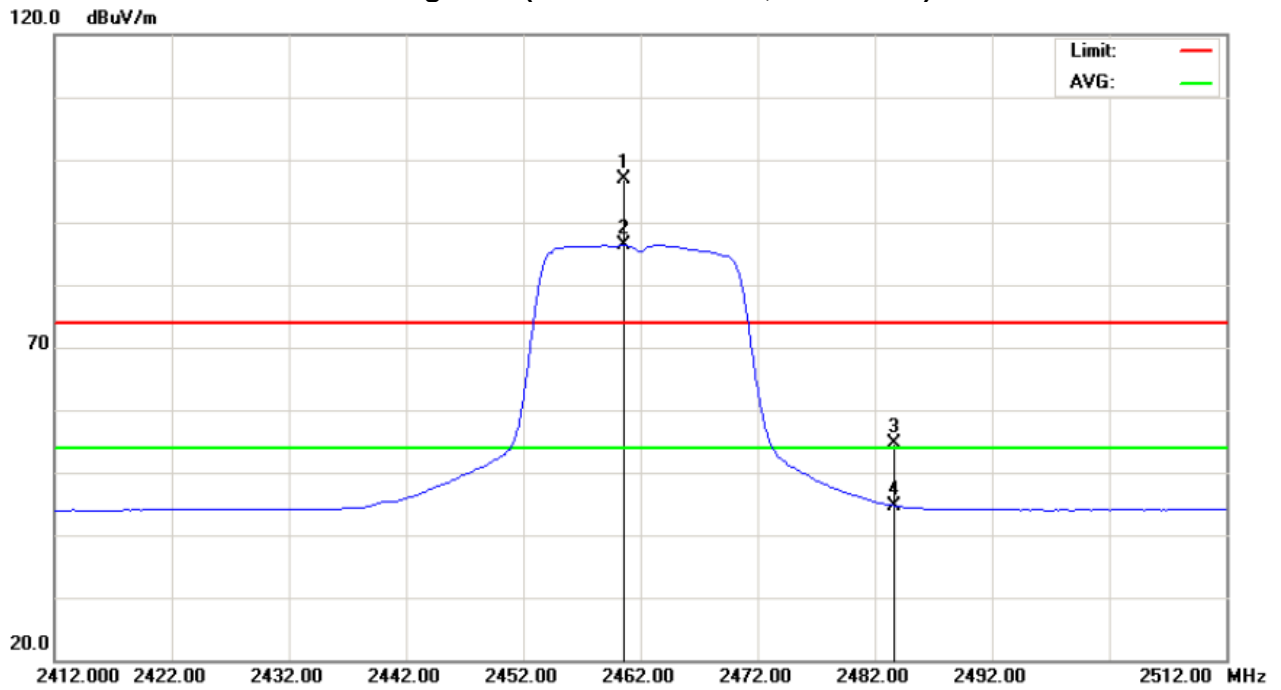
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2460.60	H	64.57	54.14	32.20	96.77	86.34			Y/F
2483.50	H	22.32	12.43	32.29	54.61	44.72	74.00	54.00	Y/E
4923.70	H	41.88	30.46	4.06	45.94	34.52	74.00	54.00	Y/H
7385.60	H	42.70	31.04	9.27	51.97	40.31	74.00	54.00	Y/H
9847.50	H	43.69	31.21	12.27	55.96	43.48	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11g/CH11(Above 1000 MHz, Horizontal)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH01 (Antenna B)		

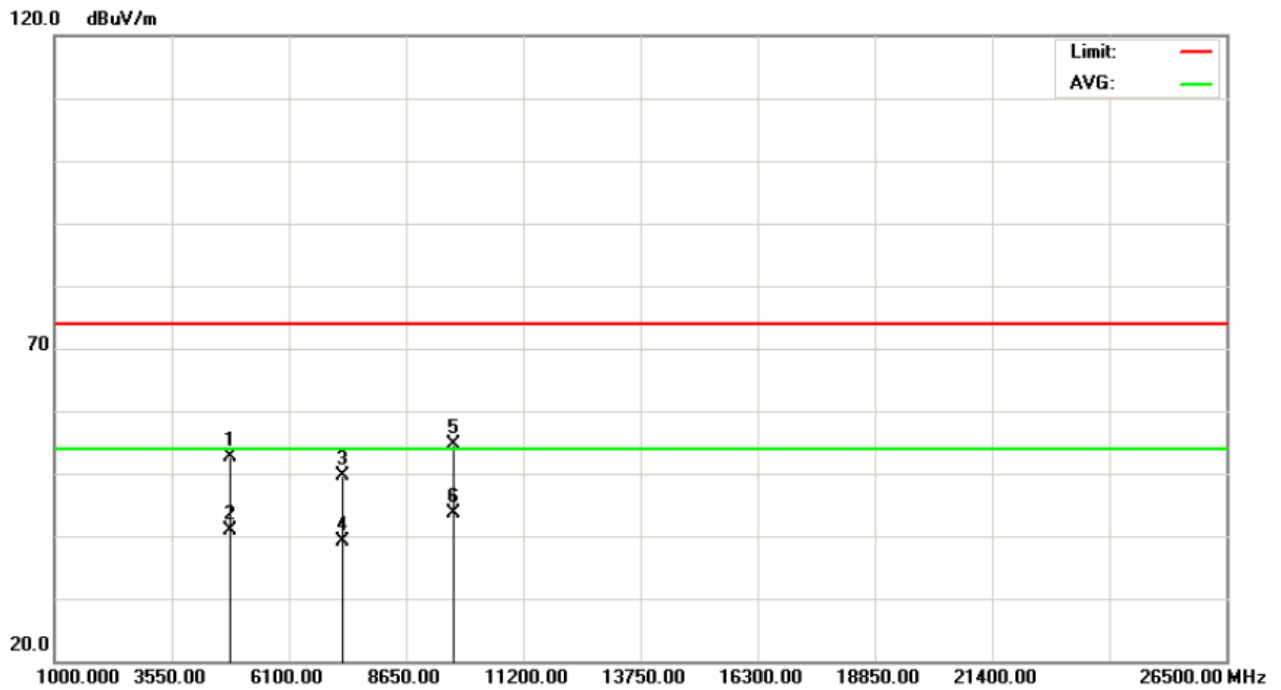
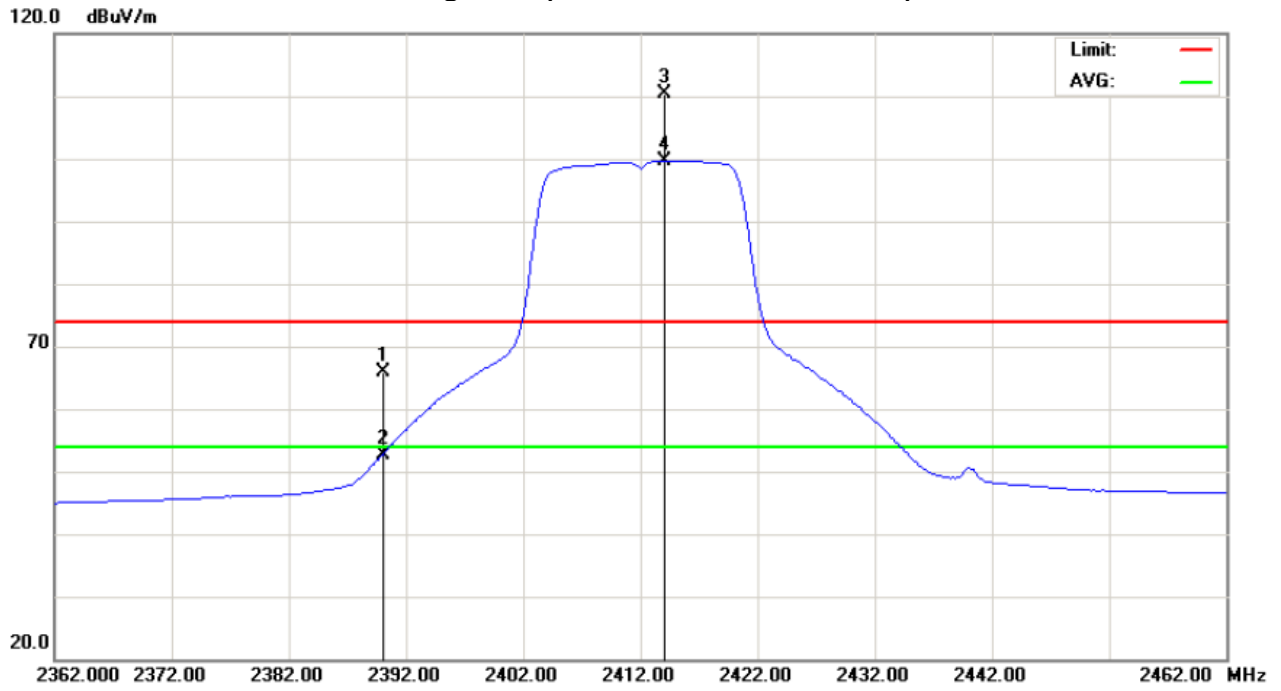
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	33.89	20.82	31.93	65.82	52.75	74.00	54.00	Y/E
2414.00	V	78.43	67.72	32.02	110.45	99.74			Y/F
4824.40	V	48.89	37.25	3.75	52.64	41.00	74.00	54.00	Y/H
7235.60	V	40.71	29.99	9.02	49.73	39.01	74.00	54.00	Y/H
9648.80	V	42.67	31.56	11.96	54.63	43.52	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11g/CH01(Above 1000 MHz, Vertical)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH01 (Antenna B)		

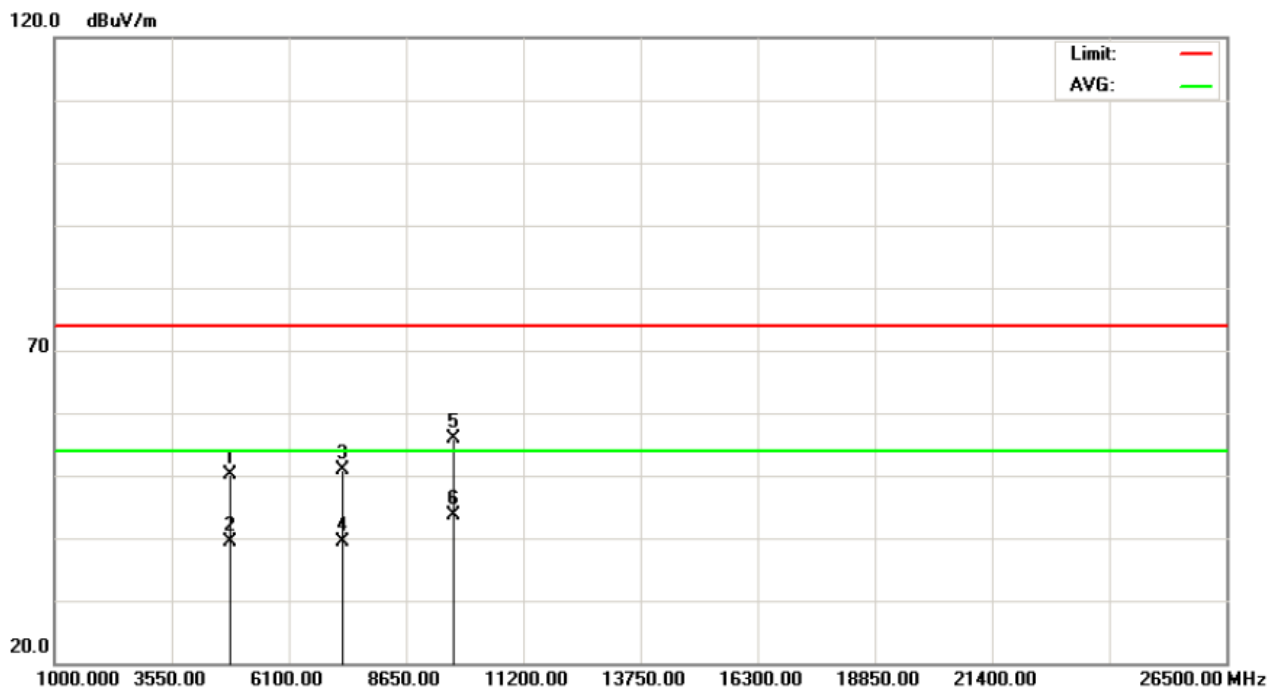
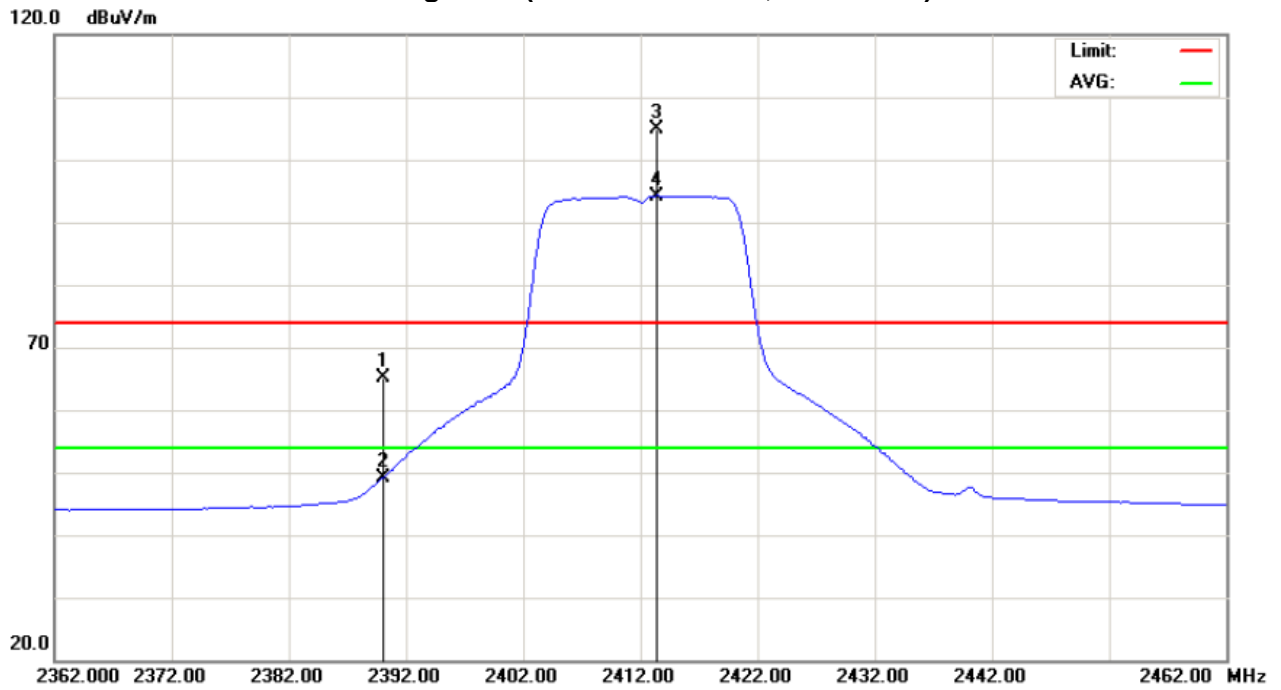
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	33.22	17.28	31.93	65.15	49.21	74.00	54.00	Y/E
2413.40	H	72.78	62.23	32.02	104.80	94.25			Y/F
4823.60	H	46.49	35.56	3.75	50.24	39.31	74.00	54.00	Y/H
7236.60	H	41.74	30.25	9.02	50.76	39.27	74.00	54.00	Y/H
9647.40	H	43.94	31.66	11.96	55.90	43.62	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11g/CH01(Above 1000 MHz, Horizontal)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH06 (Antenna B)		

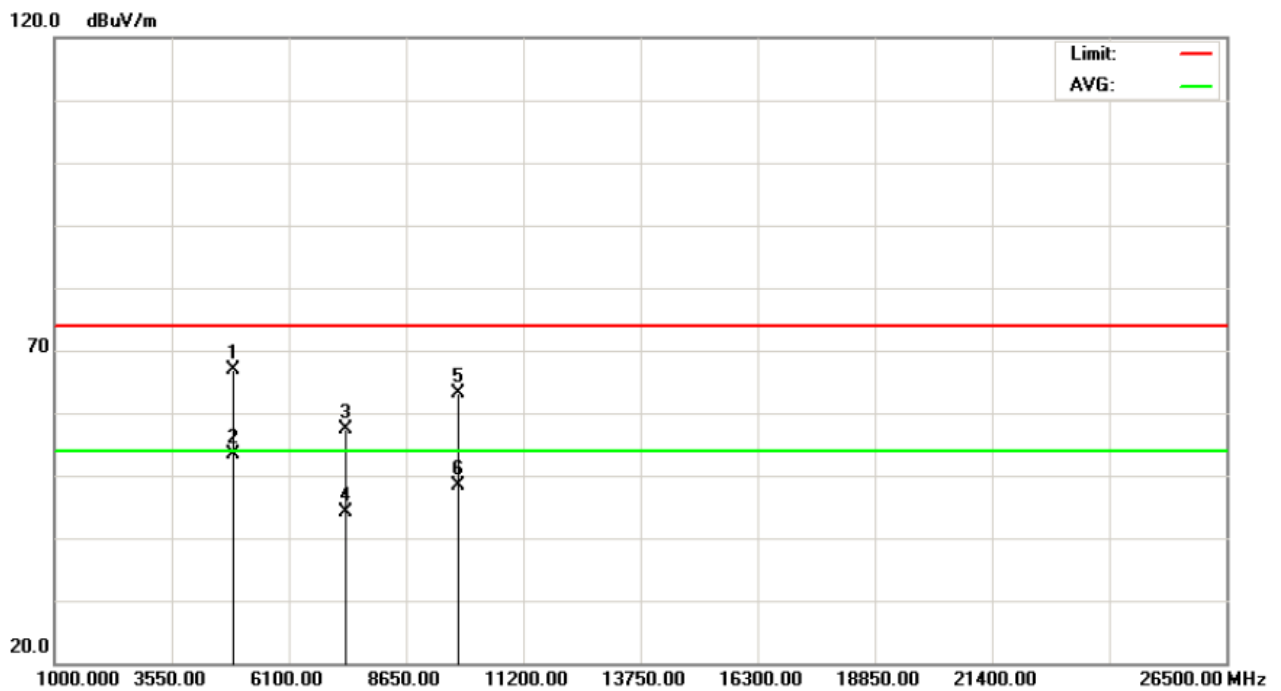
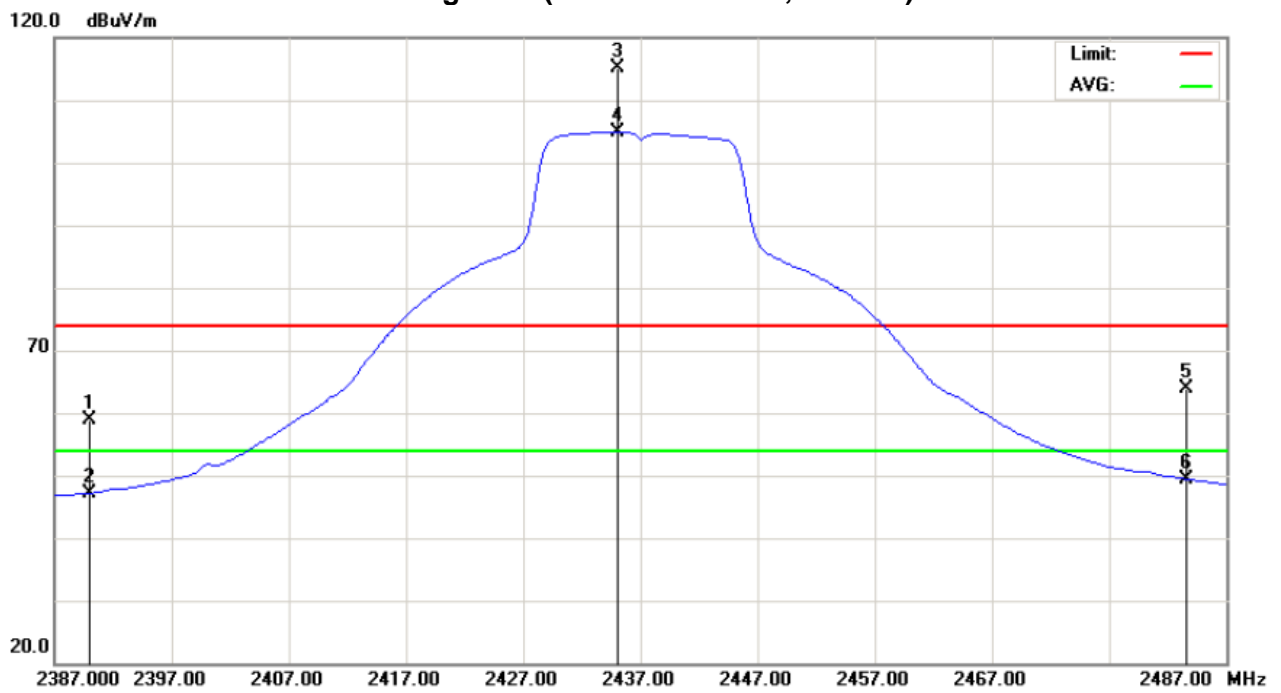
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	26.99	15.28	31.93	58.92	47.21	74.00	54.00	Y/E
2435.00	V	83.02	72.81	32.10	115.12	104.91			Y/F
2483.50	V	31.69	17.19	32.29	63.98	49.48	74.00	54.00	Y/H
4874.60	V	62.91	49.51	3.91	66.82	53.42	74.00	54.00	Y/H
7308.80	V	48.22	35.03	9.14	57.36	44.17	74.00	54.00	Y/H
9749.00	V	51.11	36.32	12.11	63.22	48.43	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11g/CH06(Above 1000 MHz, Vertical)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH06 (Antenna B)		

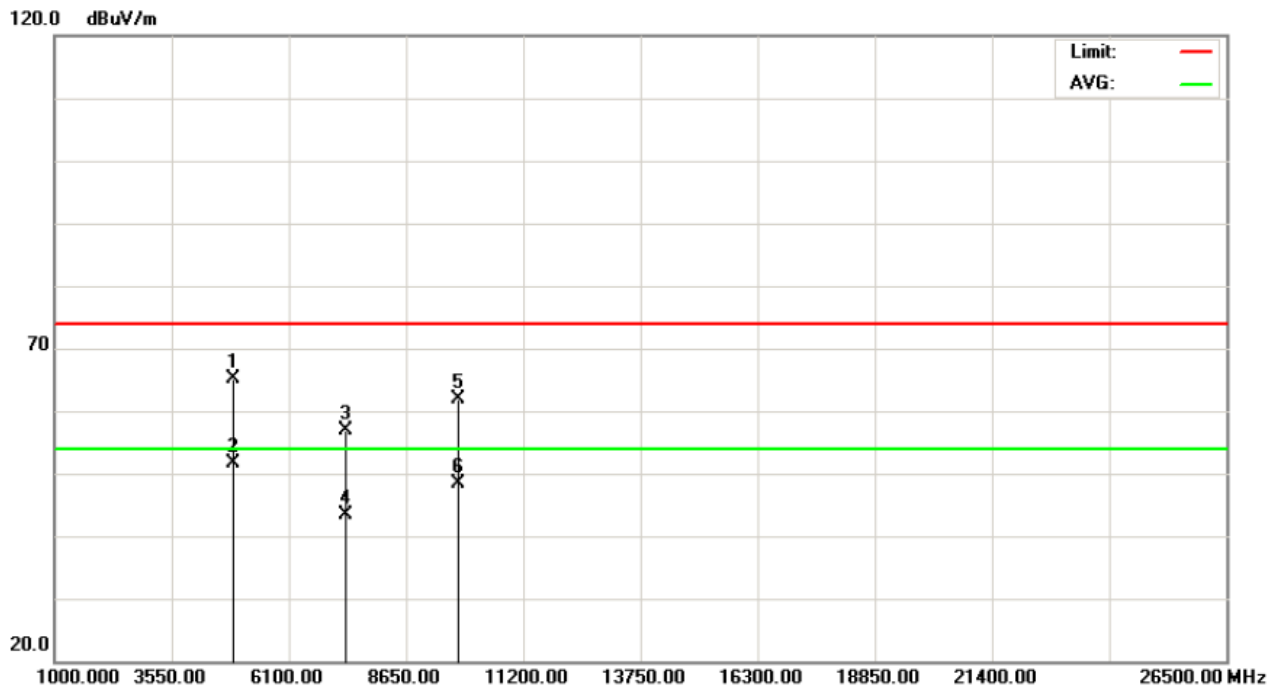
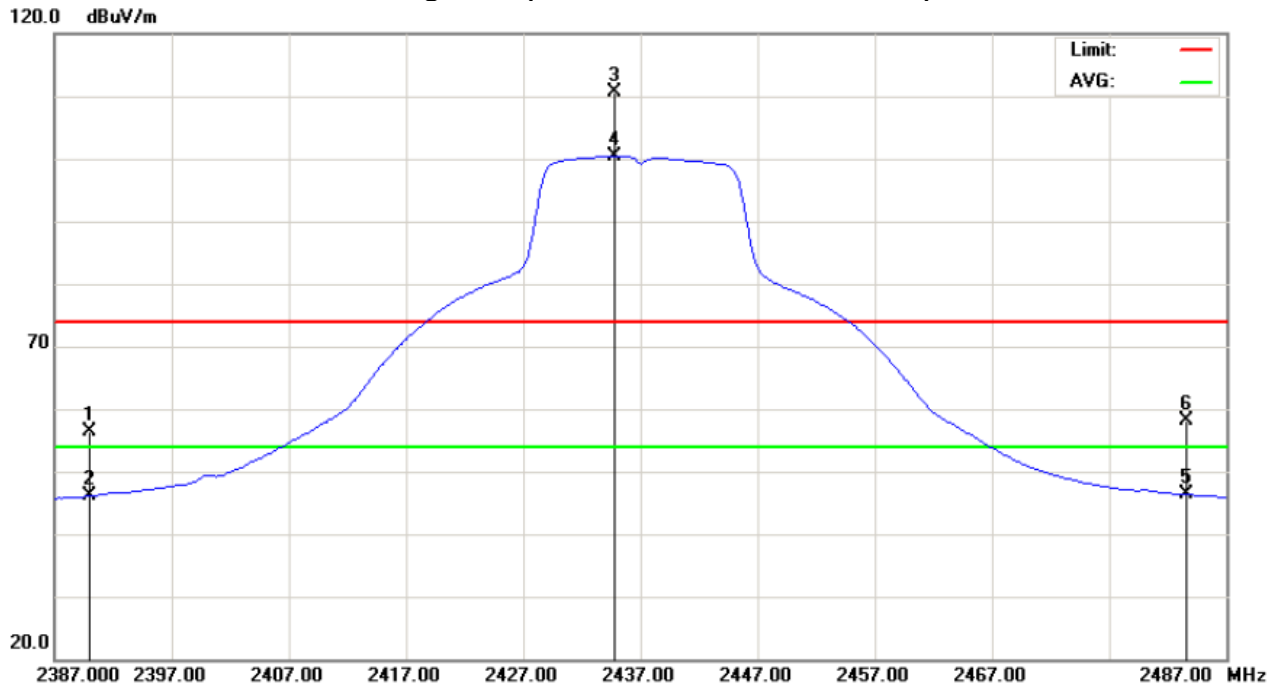
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	24.43	14.14	31.93	56.36	46.07	74.00	54.00	Y/E
2434.80	H	78.42	68.28	32.10	110.52	100.38			Y/F
2483.50	H	25.74	14.04	32.29	58.03	46.33	74.00	54.00	Y/H
4873.60	H	61.26	47.66	3.90	65.16	51.56	74.00	54.00	Y/H
7313.60	H	47.63	34.35	9.15	56.78	43.50	74.00	54.00	Y/H
9748.20	H	49.68	36.22	12.11	61.79	48.33	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11g/CH06(Above 1000 MHz, Horizontal)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH11 (Antenna B)		

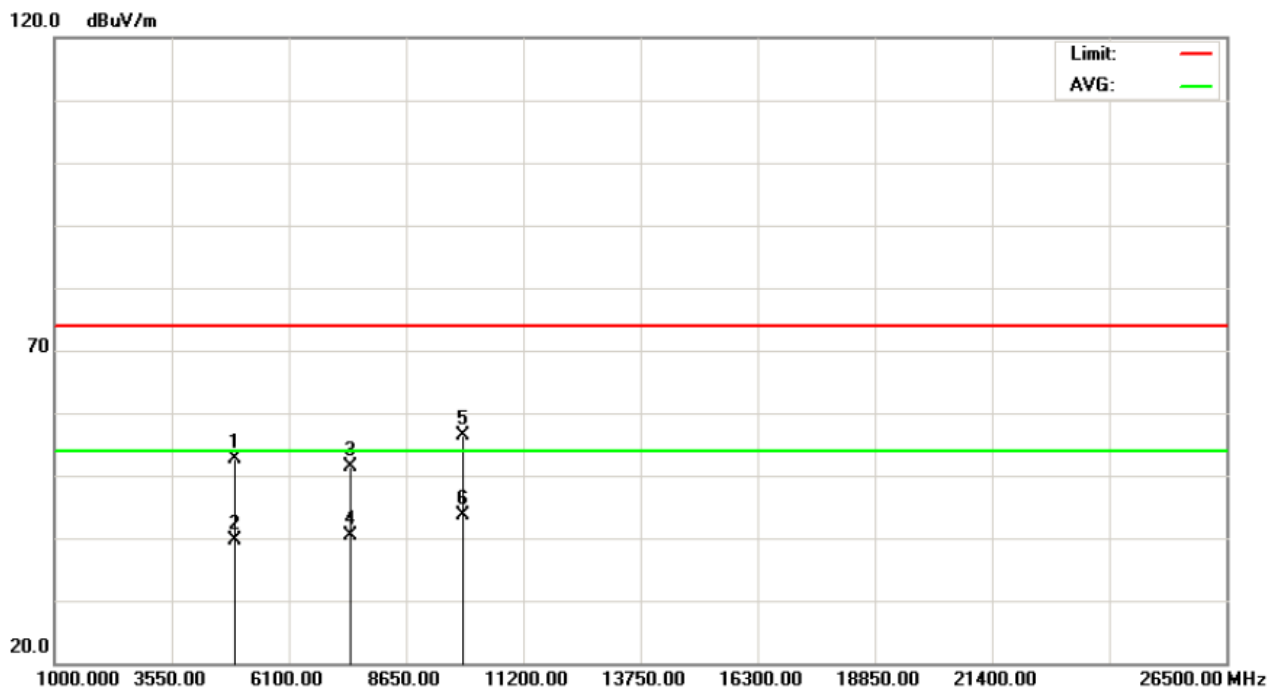
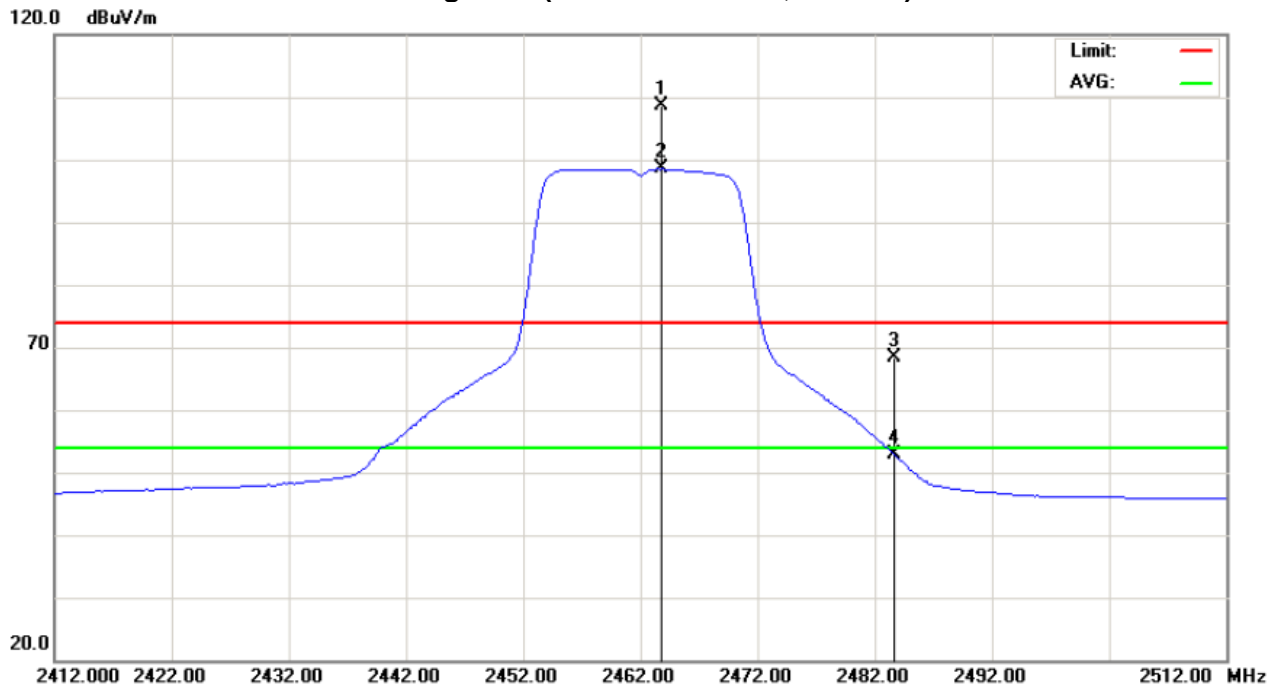
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2463.80	V	76.43	66.30	32.21	108.64	98.51			Y/F
2483.50	V	36.12	20.66	32.29	68.41	52.95	74.00	54.00	Y/E
4924.50	V	48.61	35.67	4.06	52.67	39.73	74.00	54.00	Y/H
7385.50	V	42.03	31.13	9.26	51.29	40.39	74.00	54.00	Y/H
9848.00	V	44.18	31.25	12.27	56.45	43.52	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11g/CH11(Above 1000 MHz, Vertical)





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH11 (Antenna B)		

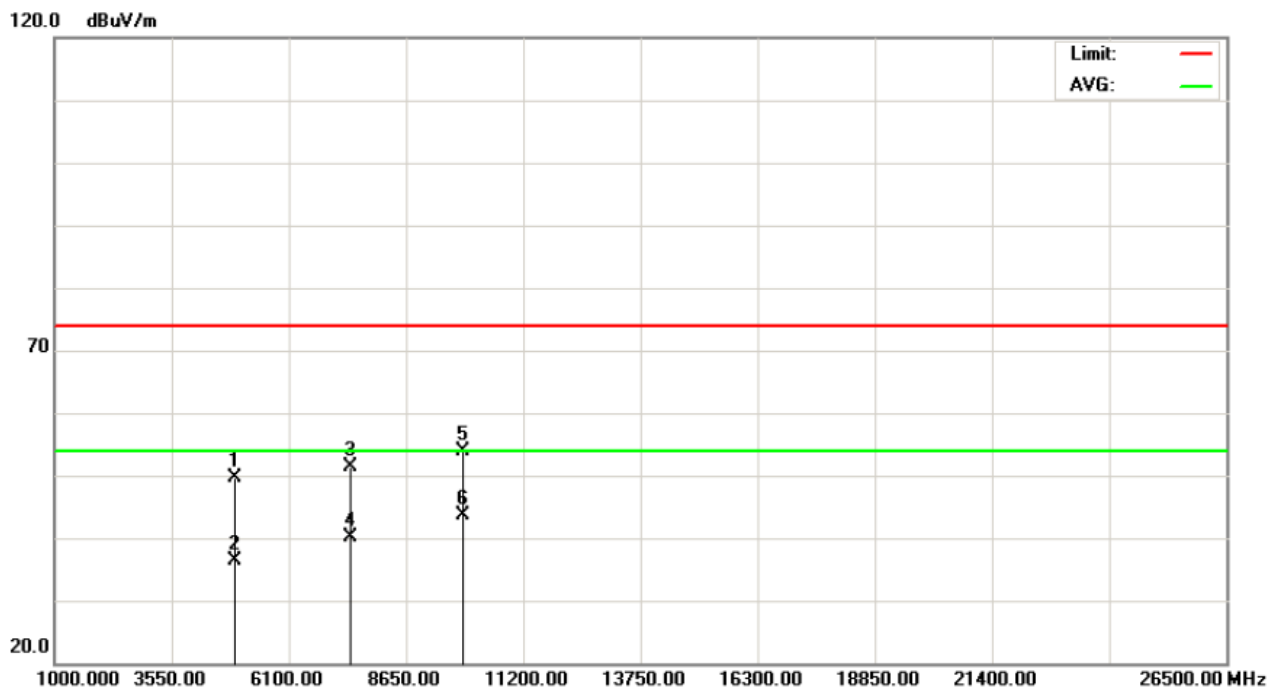
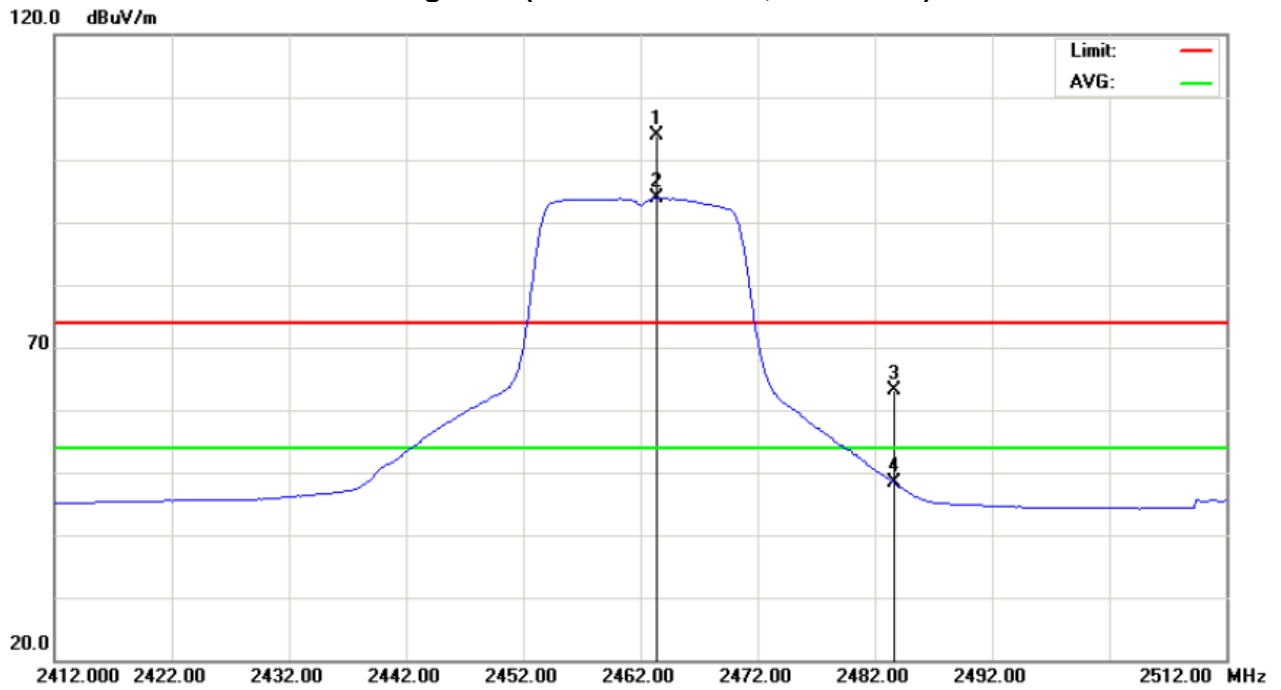
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2463.40	H	71.77	61.66	32.21	103.98	93.87			Y/F
2483.50	H	30.96	16.05	32.29	63.25	48.34	74.00	54.00	Y/E
4924.50	H	45.68	32.26	4.06	49.74	36.32	74.00	54.00	Y/H
7385.80	H	42.05	30.91	9.26	51.31	40.17	74.00	54.00	Y/H
9848.70	H	41.63	31.27	12.27	53.90	43.54	74.00	54.00	Y/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 AV in column of 『Note』 . Peak denotes that the Peak reading compliance with the AV Limits and then AV 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 : Y
802.11g/CH11(Above 1000 MHz, Horizontal)





4.1.9 TEST RESULTS-RESTRICTED BANDS REQUIREMENTS

EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 ° C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b (Antenna A) (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"> 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. 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. 		

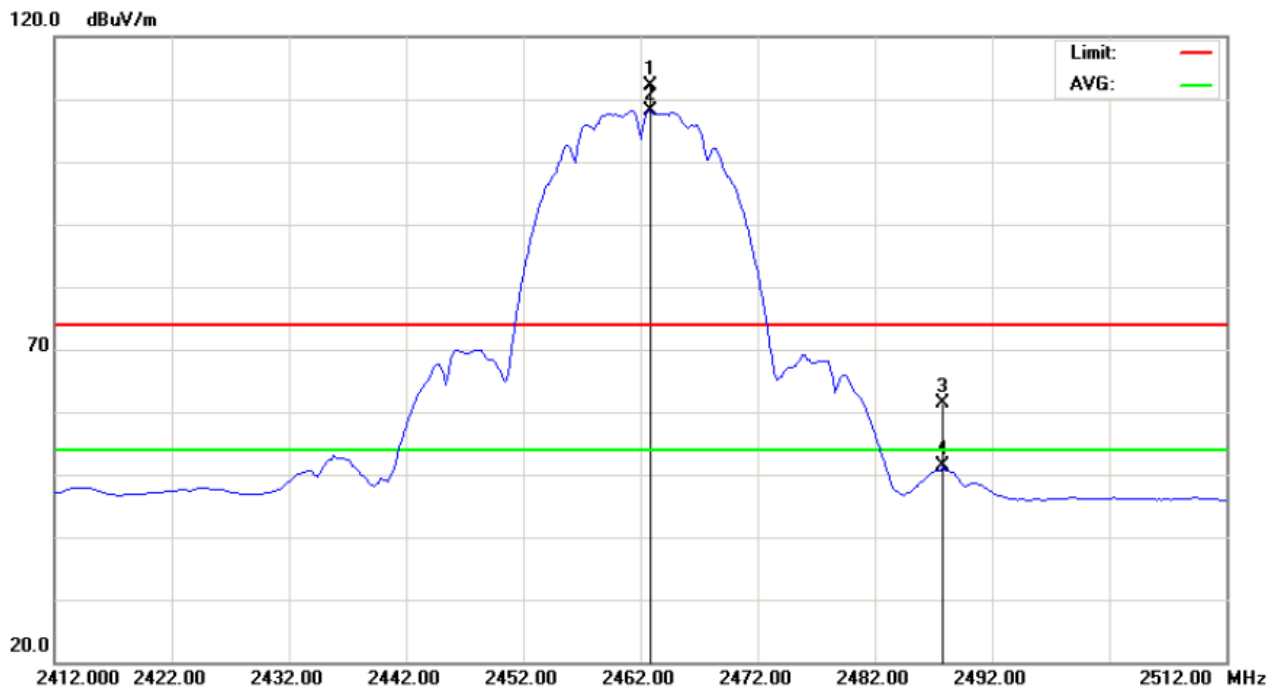
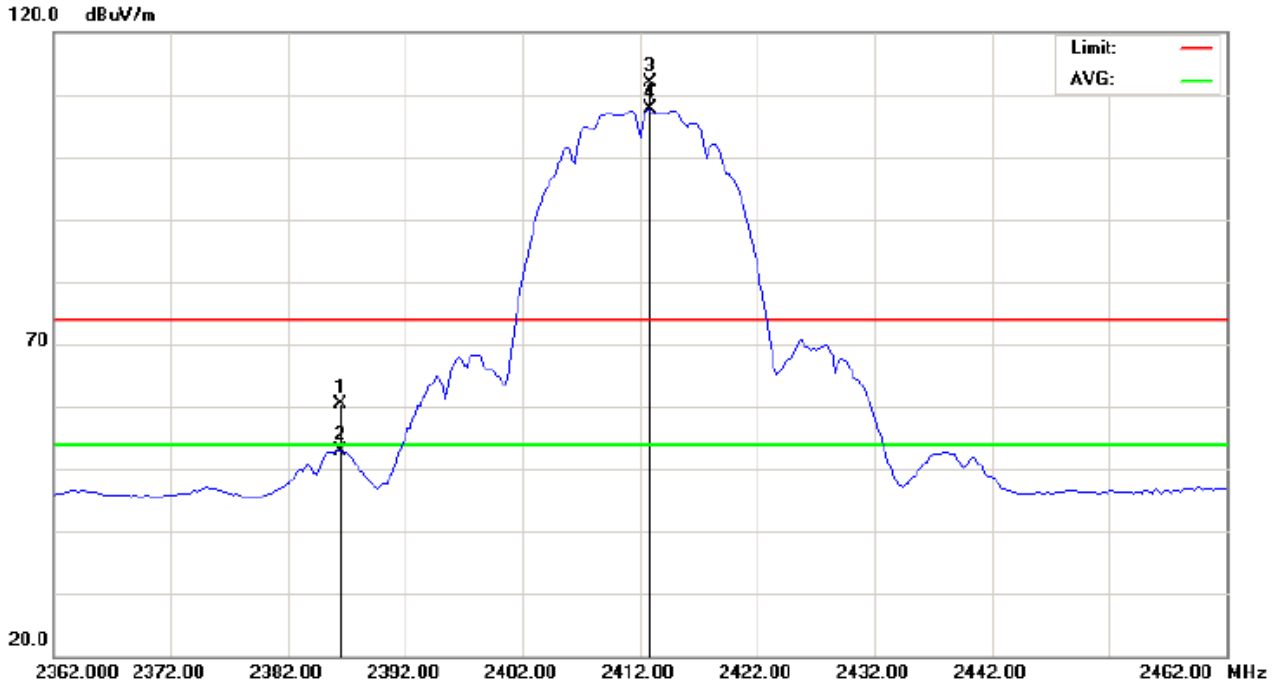
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2386.40	V	28.38	21.04	31.91	60.29	52.95	74.00	54.00	Y
2487.70	V	29.04	18.97	32.30	61.34	51.27	74.00	54.00	Y

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 :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25° C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b (Antenna A) (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"> 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. 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. 		

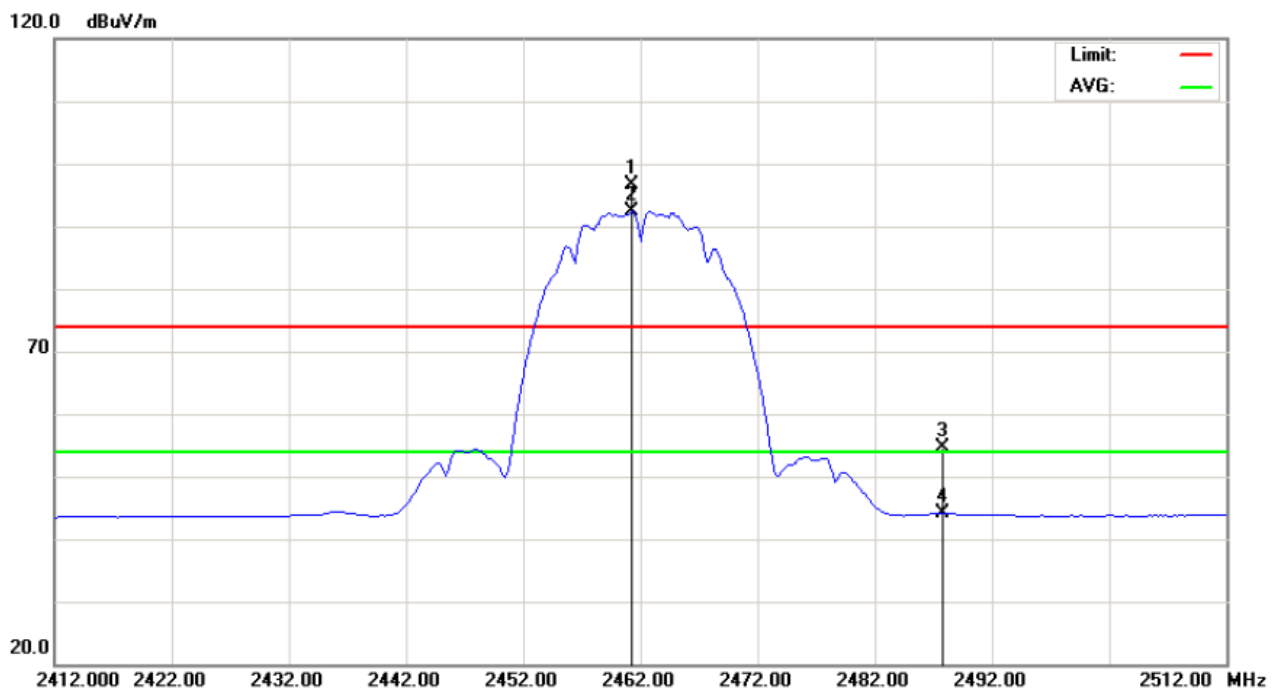
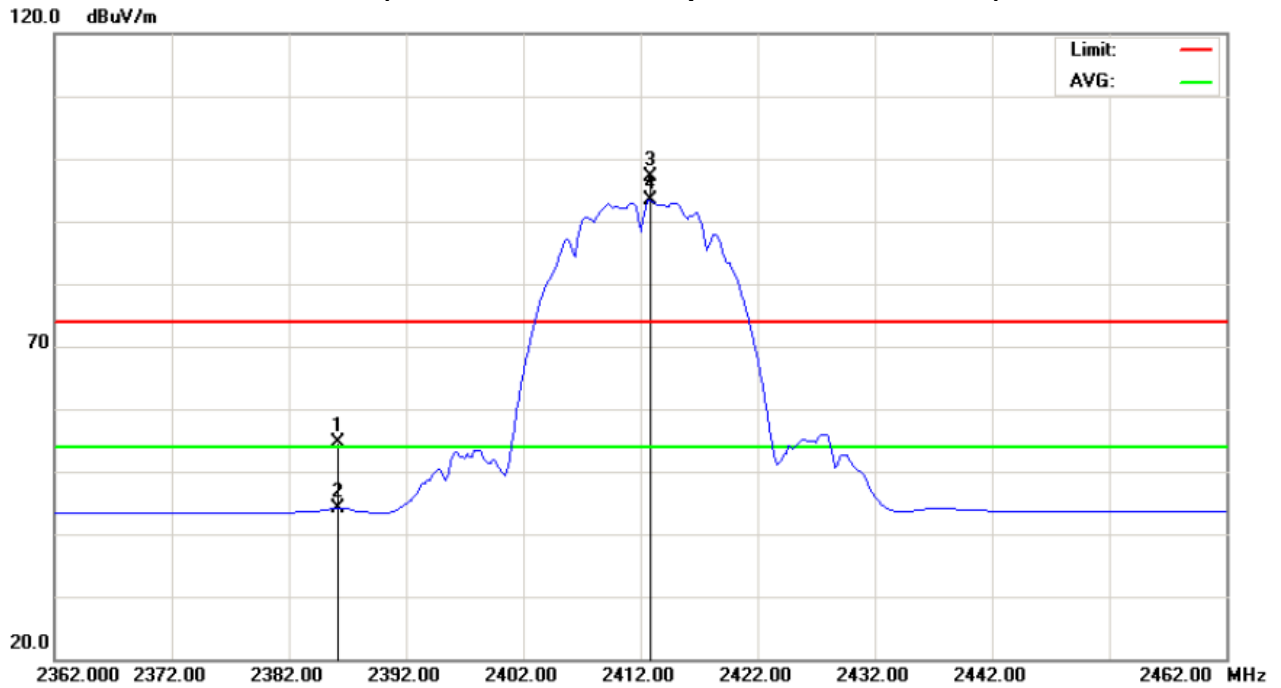
Freq. (MHz)	Ant. Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2386.20	H	22.79	12.20	31.91	54.70	44.11	74.00	54.00	Y
2487.70	H	22.37	11.83	32.30	54.67	44.13	74.00	54.00	Y

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 :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b (Antenna B) (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"> 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. 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. 		

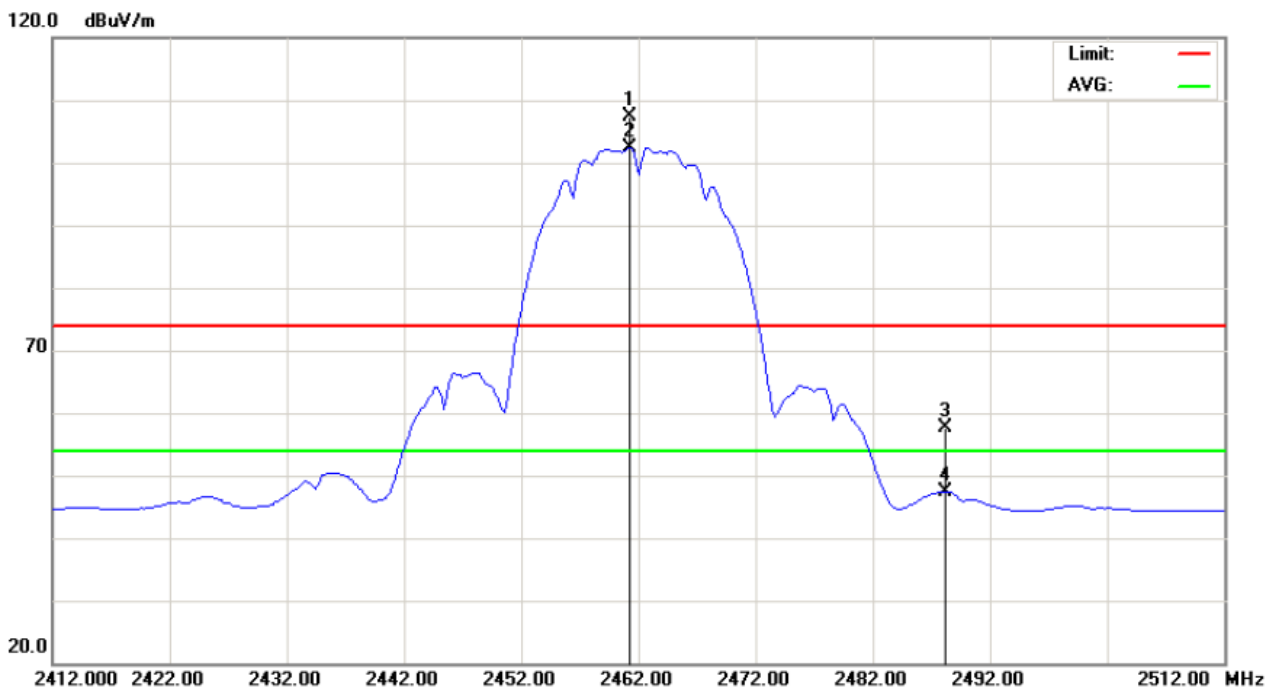
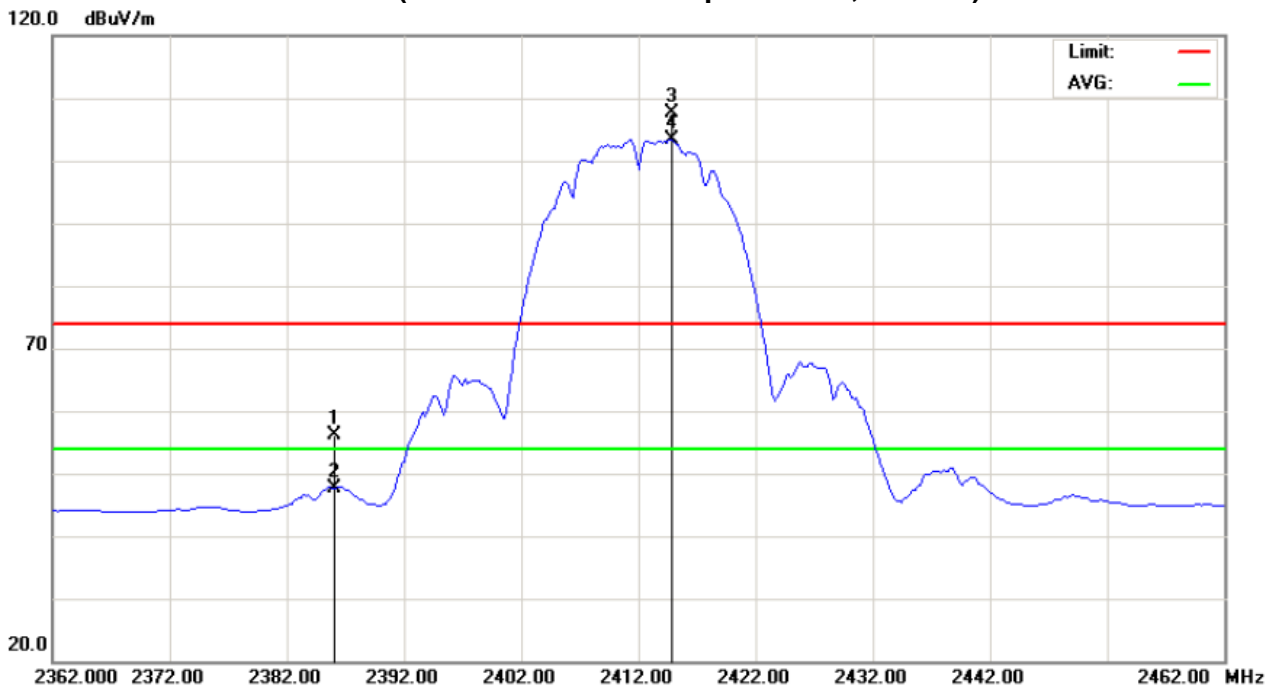
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2386.00	V	24.23	15.69	31.91	56.14	47.60	74.00	54.00	Y
2488.10	V	25.33	15.07	32.30	57.63	47.37	74.00	54.00	Y

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 :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25° C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11b (Antenna B) (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"> 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. 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. 		

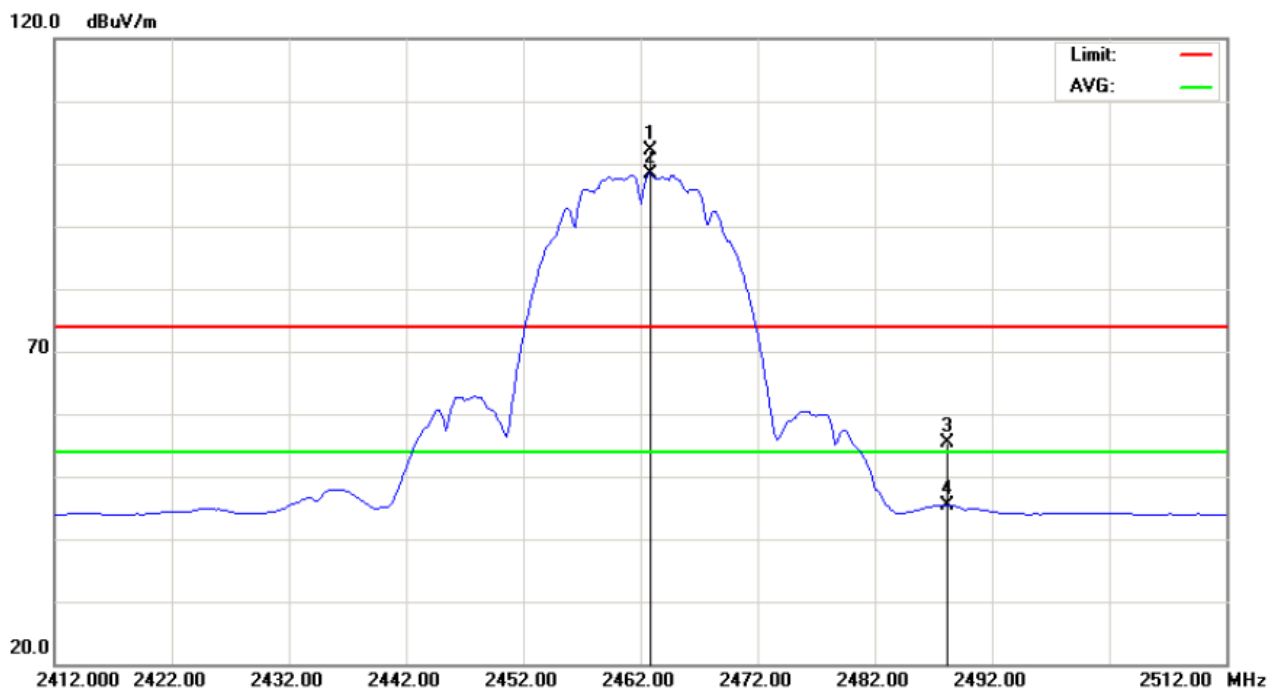
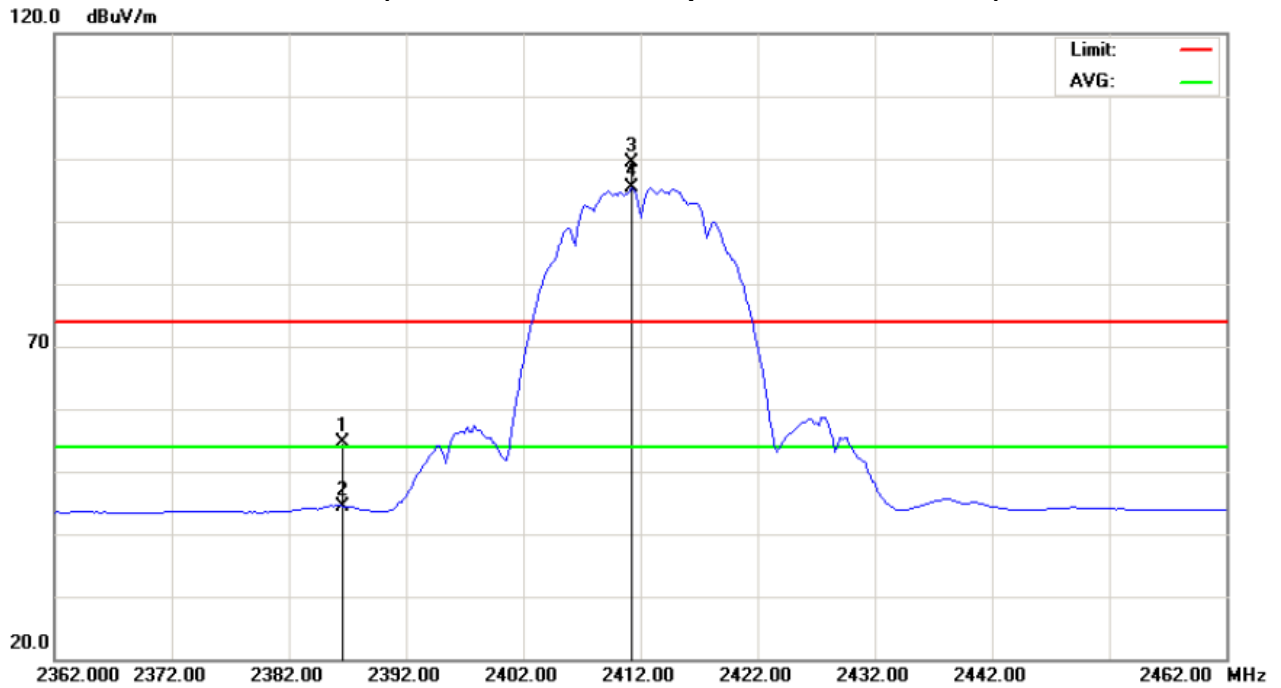
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2386.60	H	22.64	12.58	31.91	54.55	44.49	74.00	54.00	Y
2488.10	H	23.10	13.20	32.30	55.40	45.50	74.00	54.00	Y

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 :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g (Antenna A) (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"> 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. 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. 		

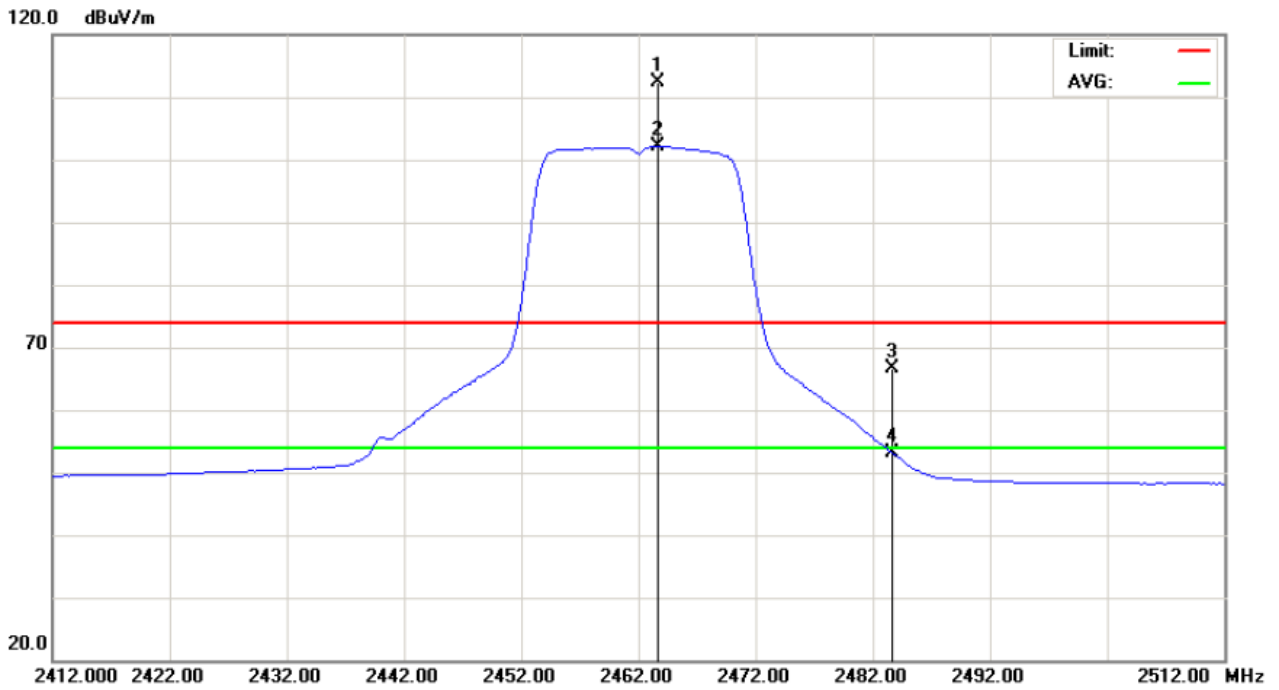
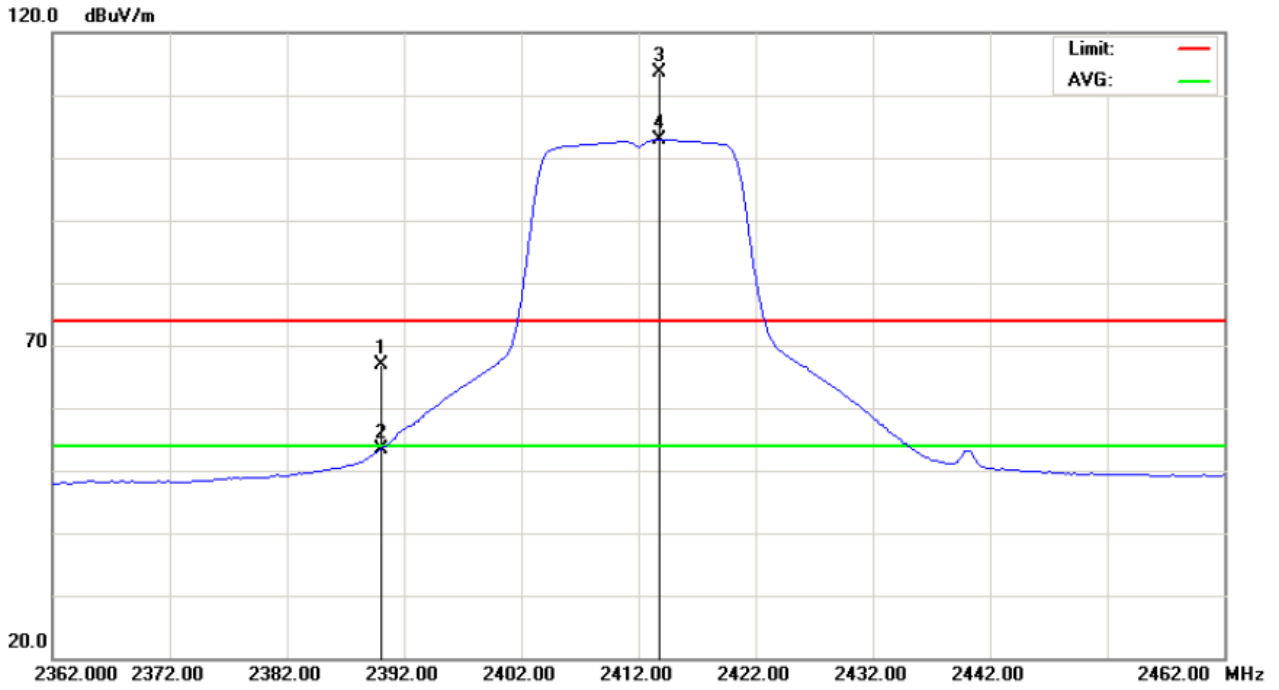
Freq. (MHz)	Ant. Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	35.06	21.50	31.93	66.99	53.43	74.00	54.00	Y
2483.50	V	34.27	20.92	32.29	66.56	53.21	74.00	54.00	Y

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 :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25° C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g (Antenna A) (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"> 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. 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. 		

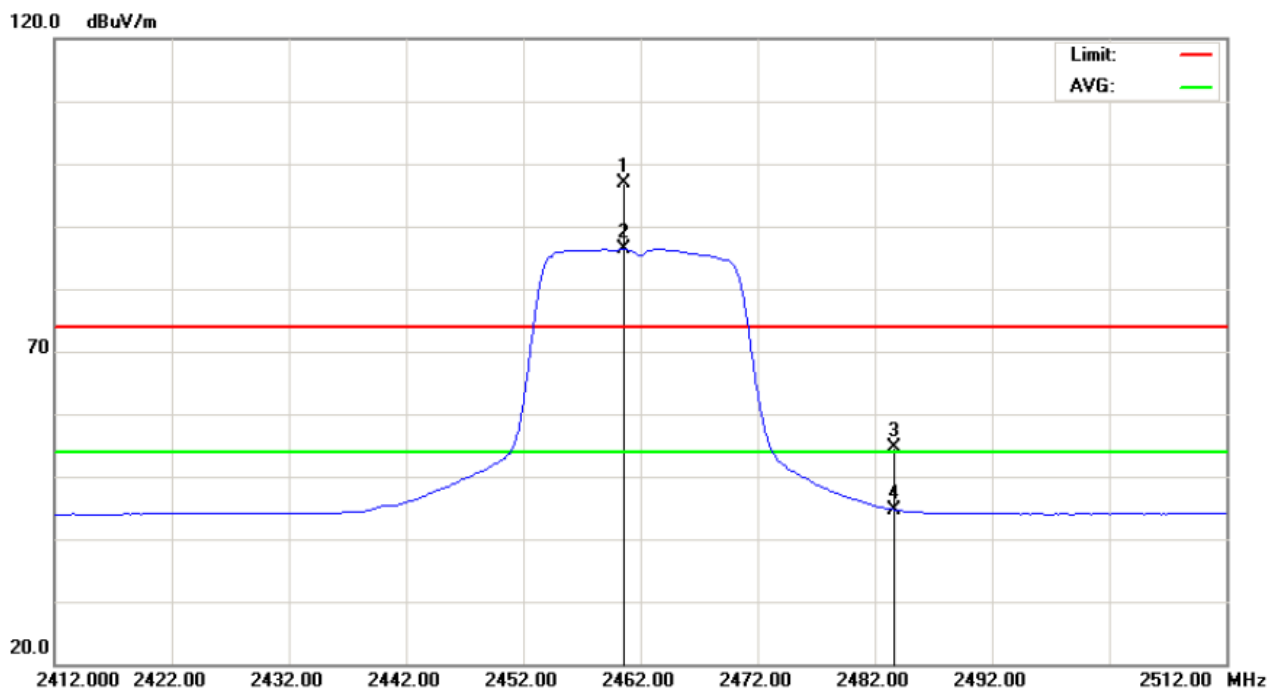
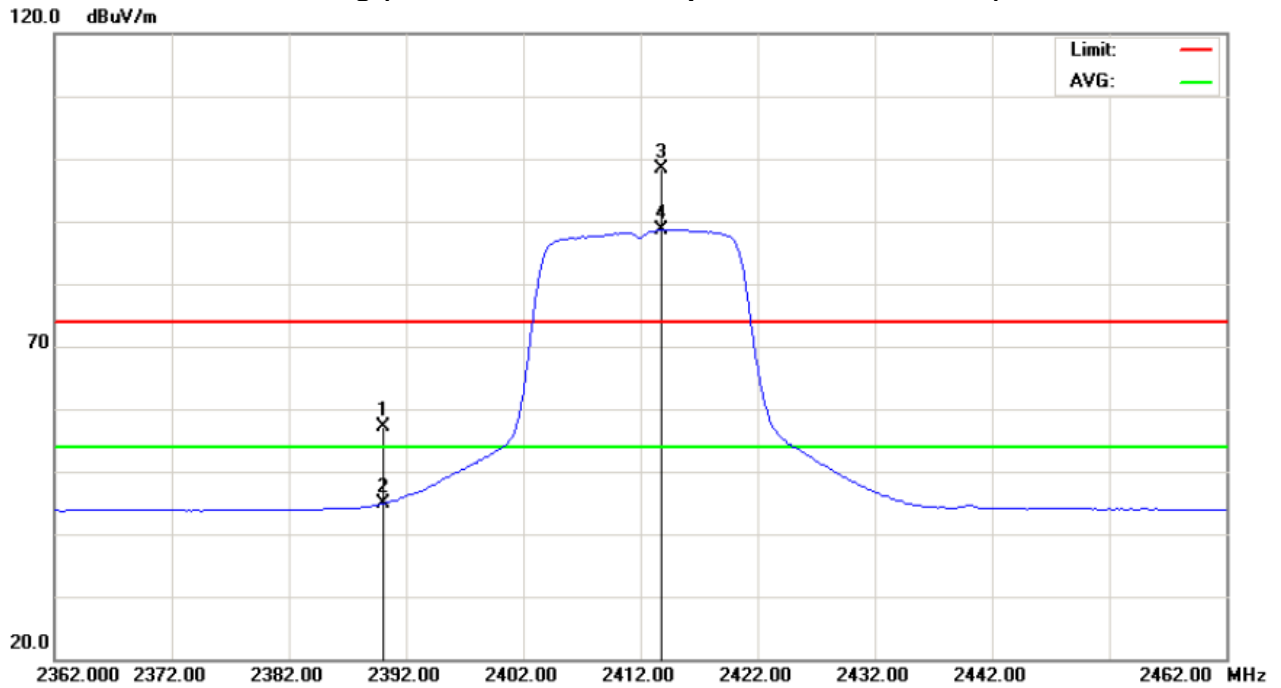
Freq. (MHz)	Ant.Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	25.24	12.92	31.93	57.17	44.85	74.00	54.00	Y
2483.50	H	22.32	12.43	32.29	54.61	44.72	74.00	54.00	Y

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 :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25 °C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g (Antenna B) (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"> 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. 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. 		

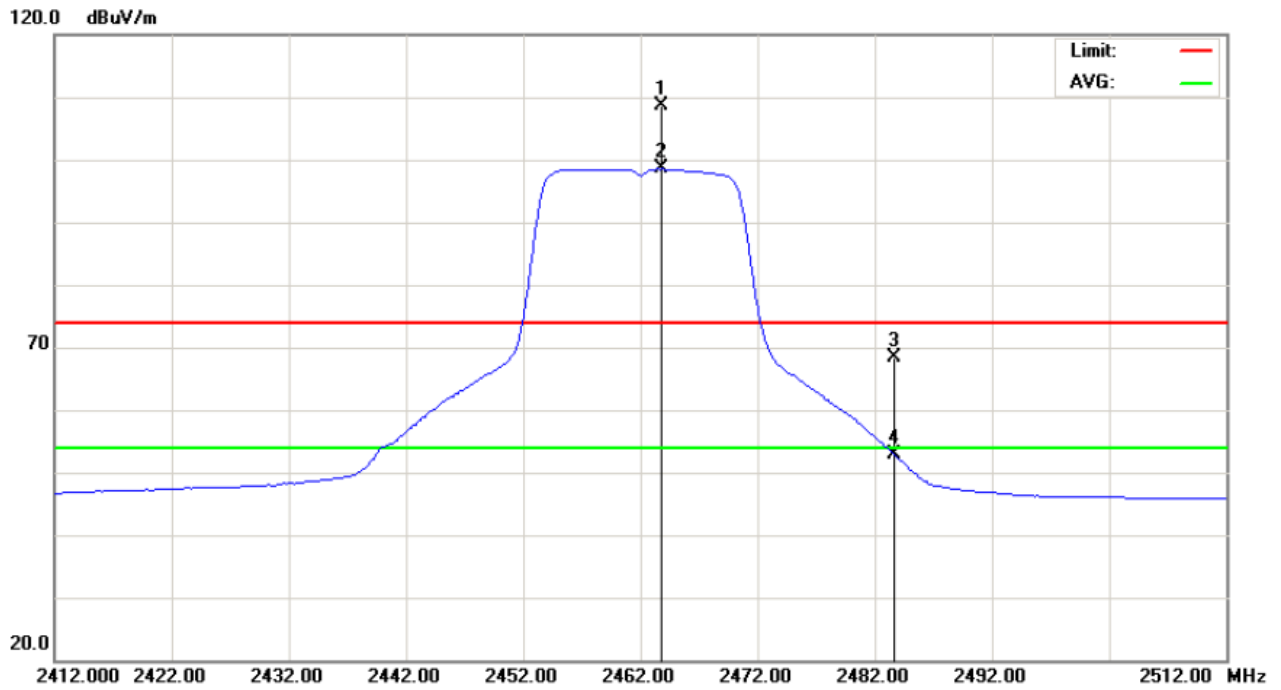
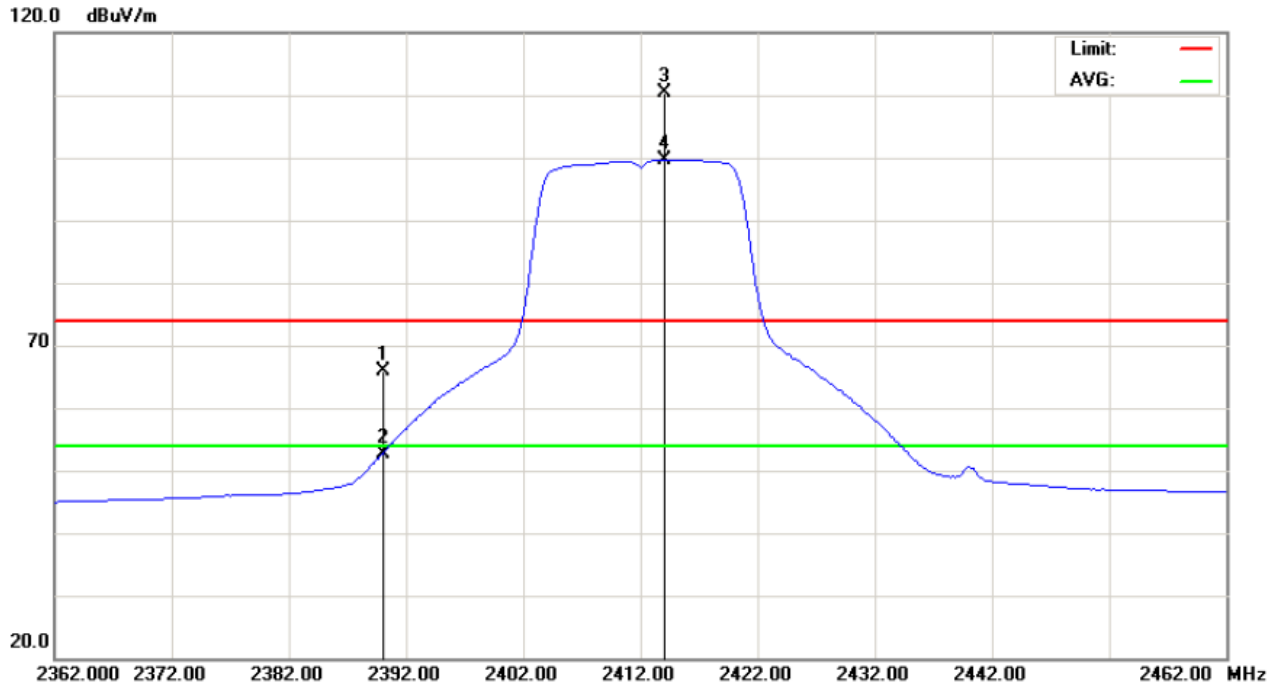
Freq. (MHz)	Ant. Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	V	33.89	20.82	31.93	65.82	52.75	74.00	54.00	Y
2483.50	V	36.12	20.66	32.29	68.41	52.95	74.00	54.00	Y

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 :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	25° C	Relative Humidity :	43%
Test Voltage :	DC 48V		
Test Mode :	802.11g (Antenna B) (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"> 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. 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. 		

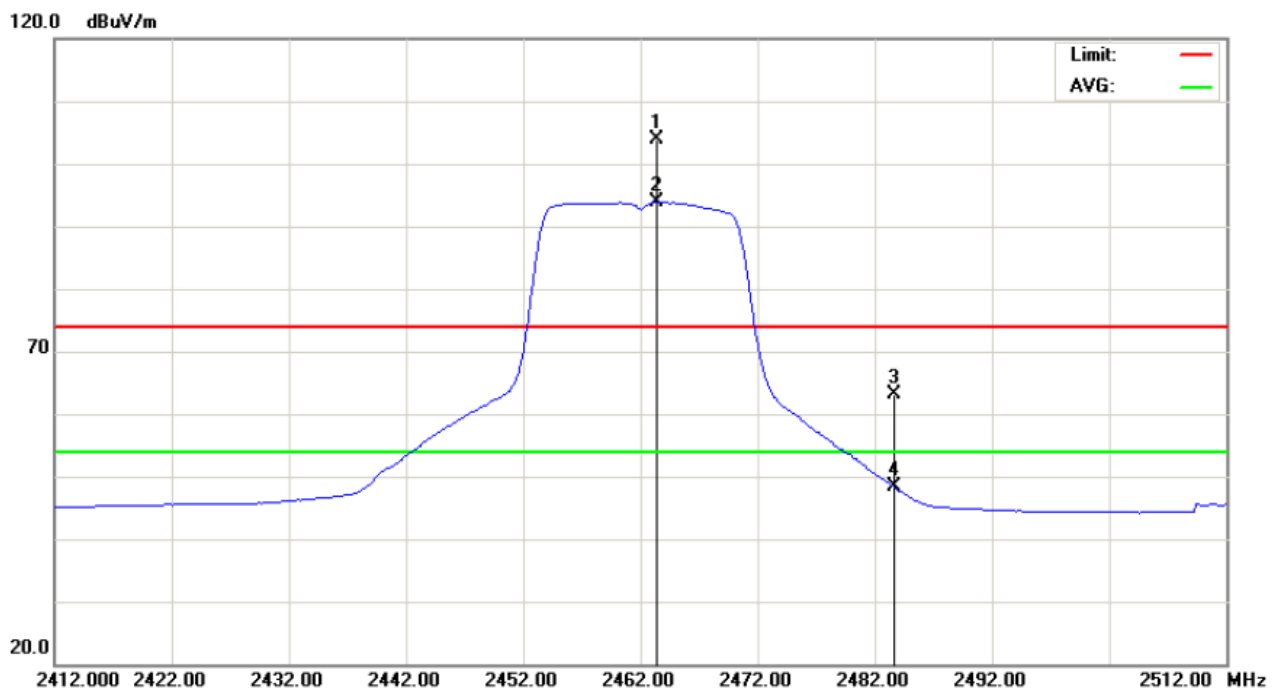
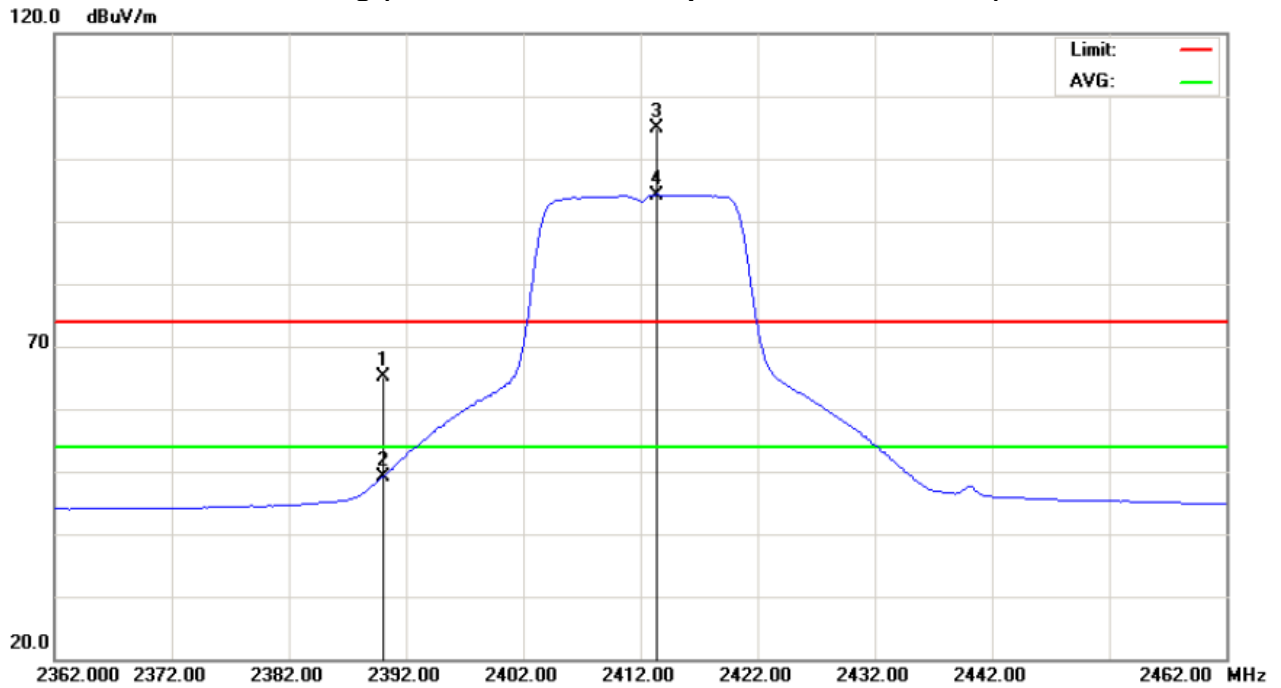
Freq. (MHz)	Ant. Pol. H/V	Reading		Ant./CF CF(dB)	Act.		Limit		Note
		Peak (dBuV)	AV (dBuV)		Peak (dBuV/m)	AV (dBuV/m)	Peak (dBuV/m)	AV (dBuV/m)	
2390.00	H	33.22	17.28	31.93	65.15	49.21	74.00	54.00	Y
2483.50	H	30.96	16.05	32.29	63.25	48.34	74.00	54.00	Y

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)





5. BANDWIDTH 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. 16, 2010

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

5.1.2 TEST PROCEDURE

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

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP



5.1.5 EUT OPERATION CONDITIONS

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

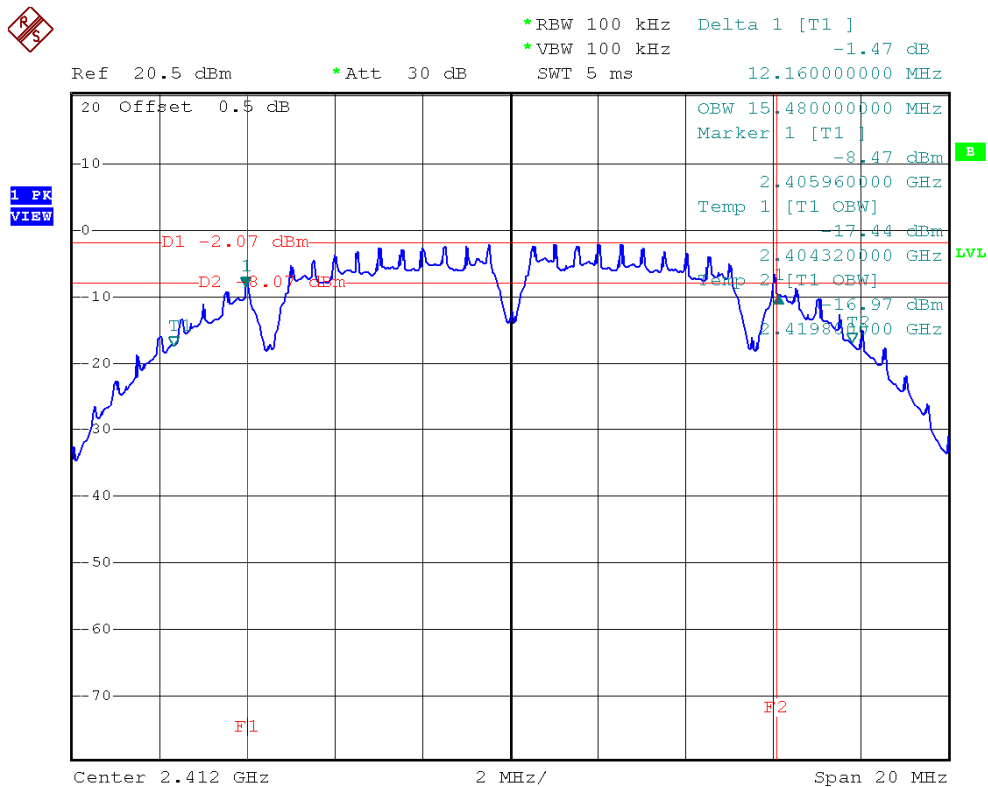


5.1.6 TEST RESULTS

EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH01, CH06, CH11 (Antenna A)		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	12.16	>=500KHz
CH06	2437	12.56	>=500KHz
CH11	2462	12.08	>=500KHz

CH01

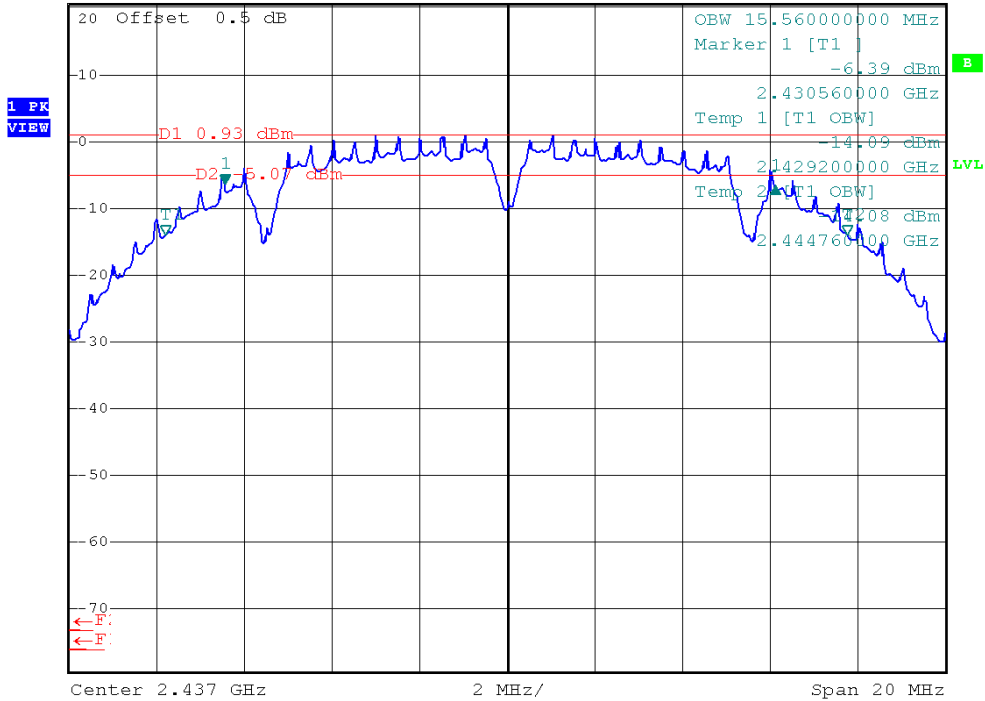




CH06



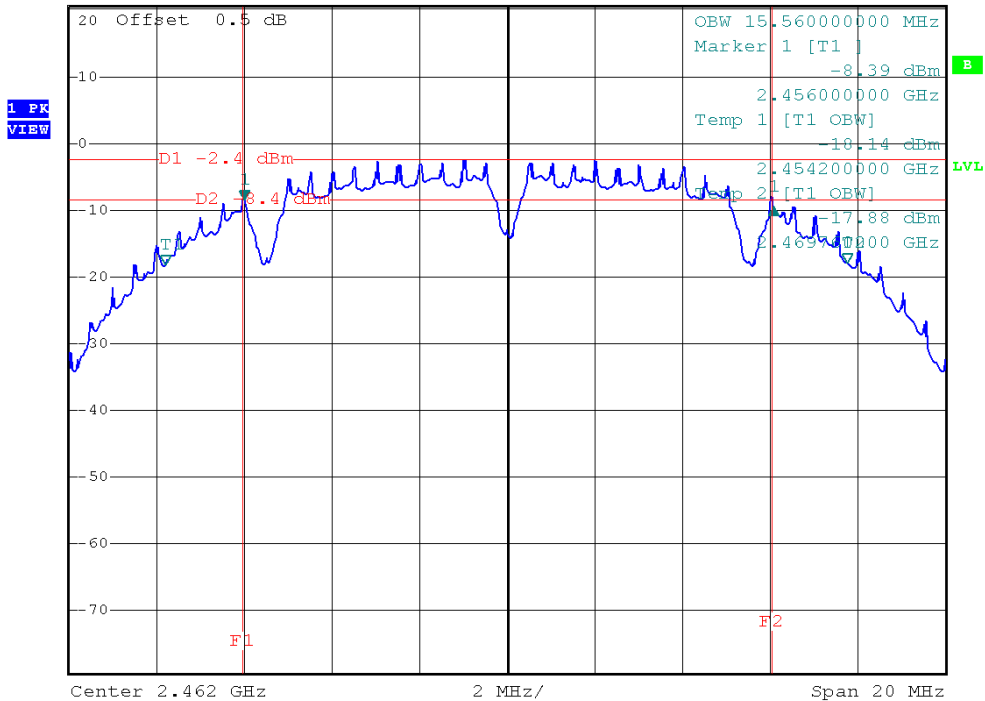
*RBW 100 kHz Delta 1 [T1]
 *VBW 100 kHz -0.39 dB
 Ref 20.5 dBm *Att 30 dB SWT 5 ms 12.560000000 MHz



CH11



*RBW 100 kHz Delta 1 [T1]
 *VBW 100 kHz -1.20 dB
 Ref 20.5 dBm *Att 30 dB SWT 5 ms 12.080000000 MHz

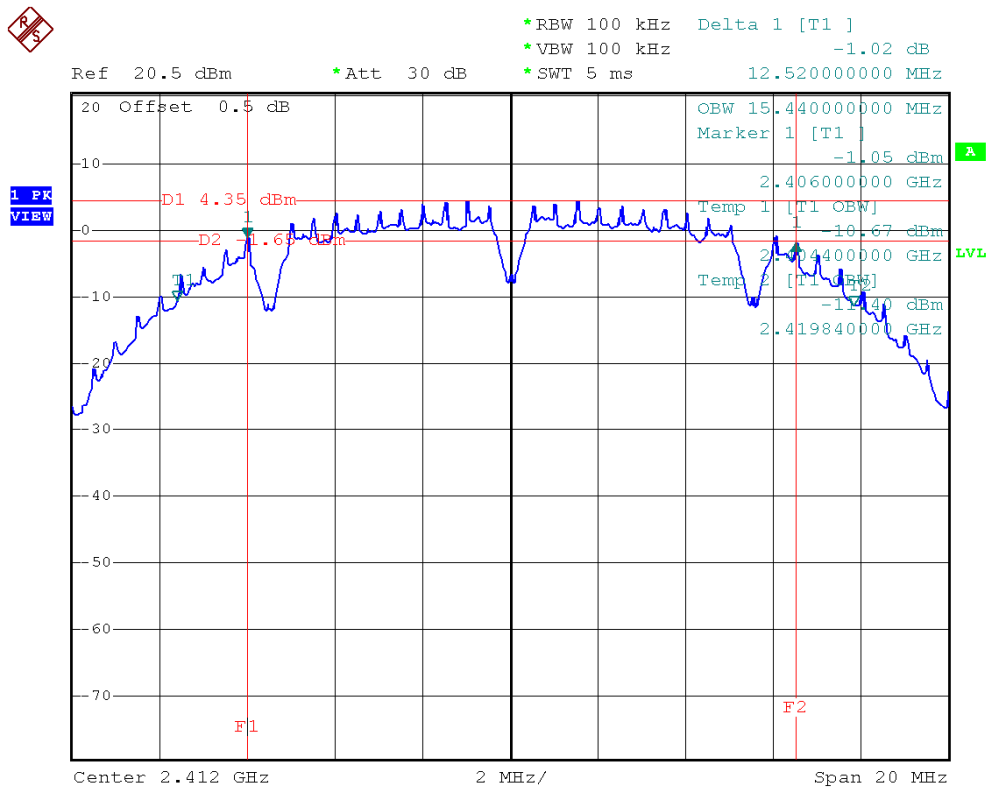




EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH01, CH06, CH11 (Antenna B)		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	12.52	>=500KHz
CH06	2437	12.00	>=500KHz
CH11	2462	12.08	>=500KHz

CH01





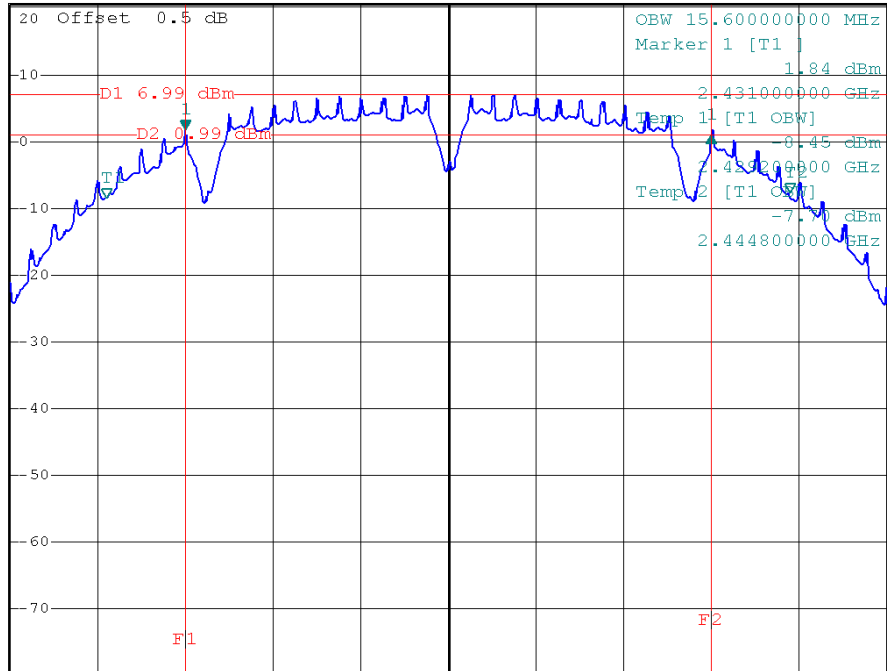
CH06



*RBW 100 kHz Delta 1 [T1]
 *VBW 100 kHz -0.93 dB
 *Att 30 dB
 *SWT 5 ms 12.000000000 MHz

Ref 20.5 dBm

1 PK VIEW



Center 2.437 GHz 2 MHz/ Span 20 MHz

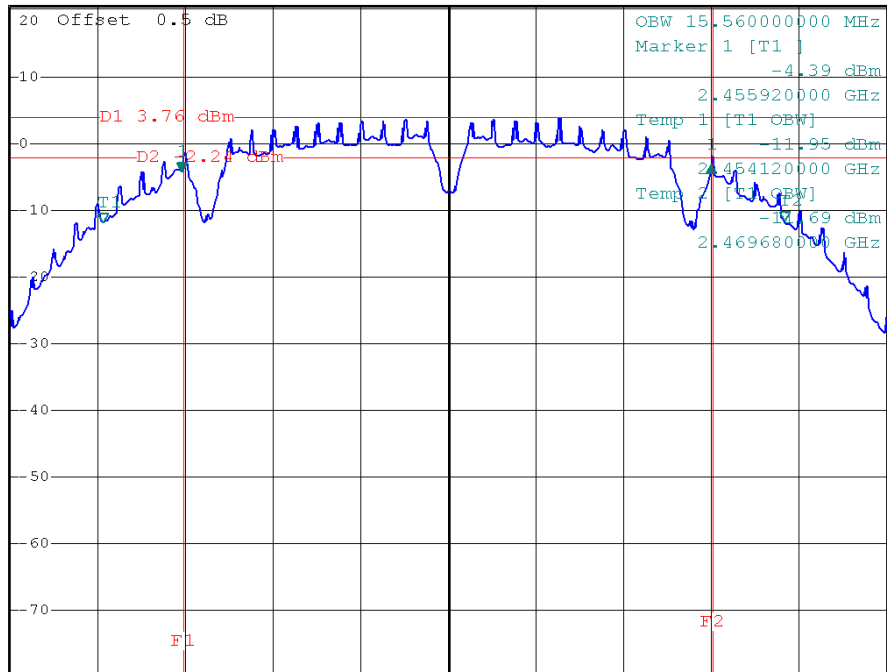
CH11



*RBW 100 kHz Delta 1 [T1]
 *VBW 100 kHz 1.13 dB
 *Att 30 dB
 *SWT 5 ms 12.080000000 MHz

Ref 20.5 dBm

1 PK VIEW



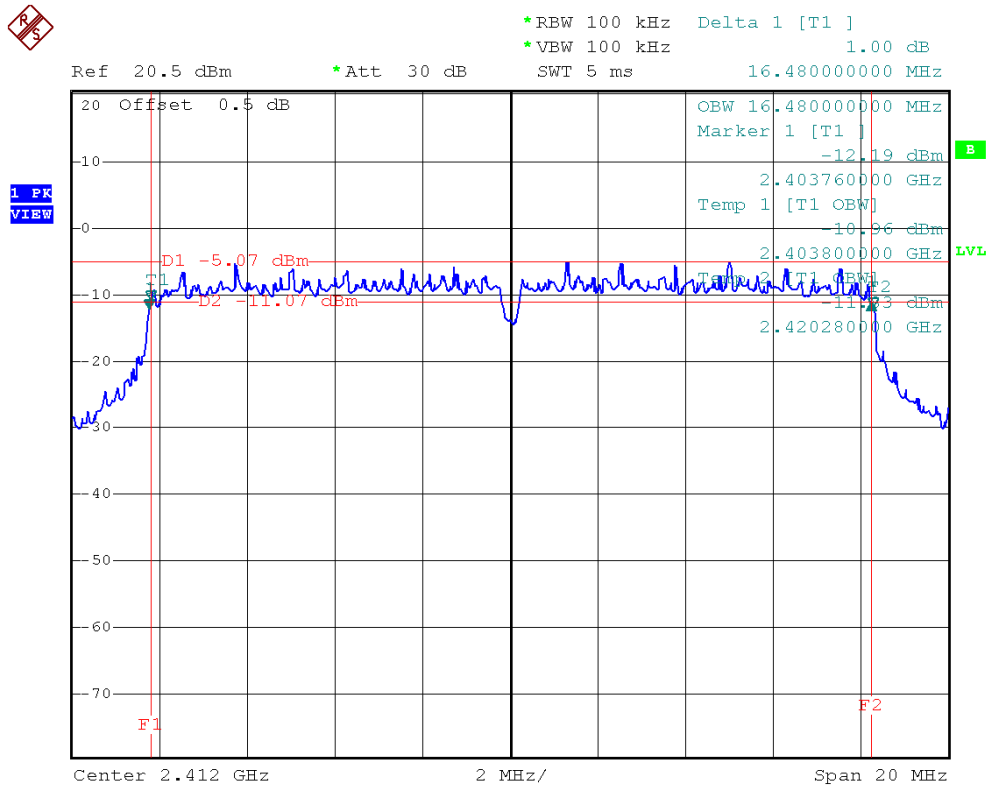
Center 2.462 GHz 2 MHz/ Span 20 MHz



EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH01, CH06, CH11 (Antenna A)		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	16.48	>=500KHz
CH06	2437	16.52	>=500KHz
CH11	2462	16.48	>=500KHz

CH01

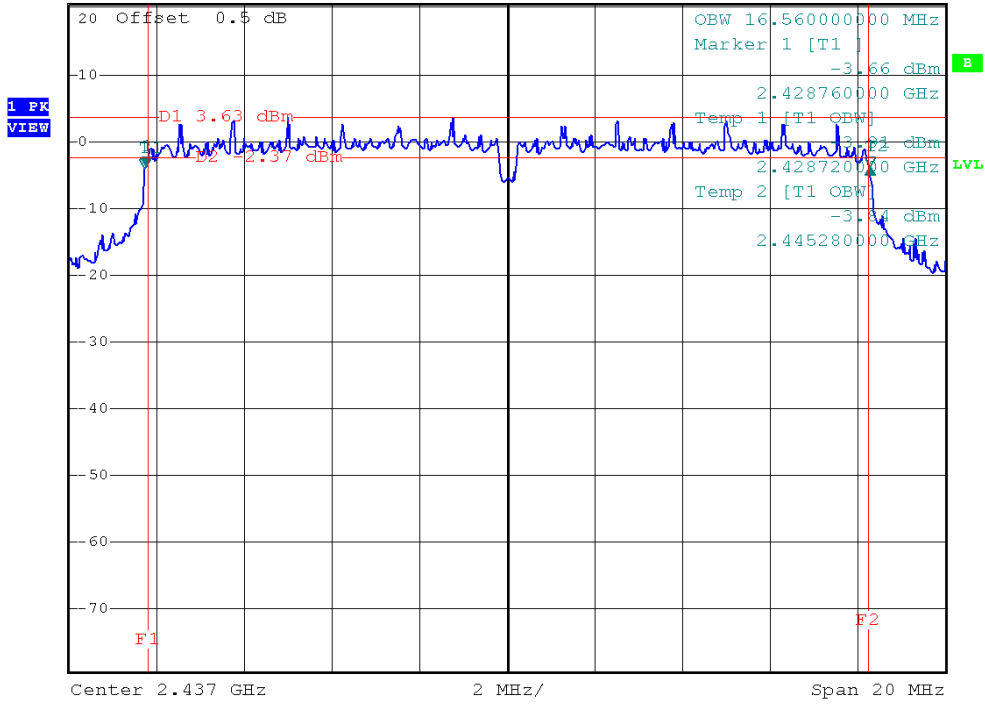




CH06



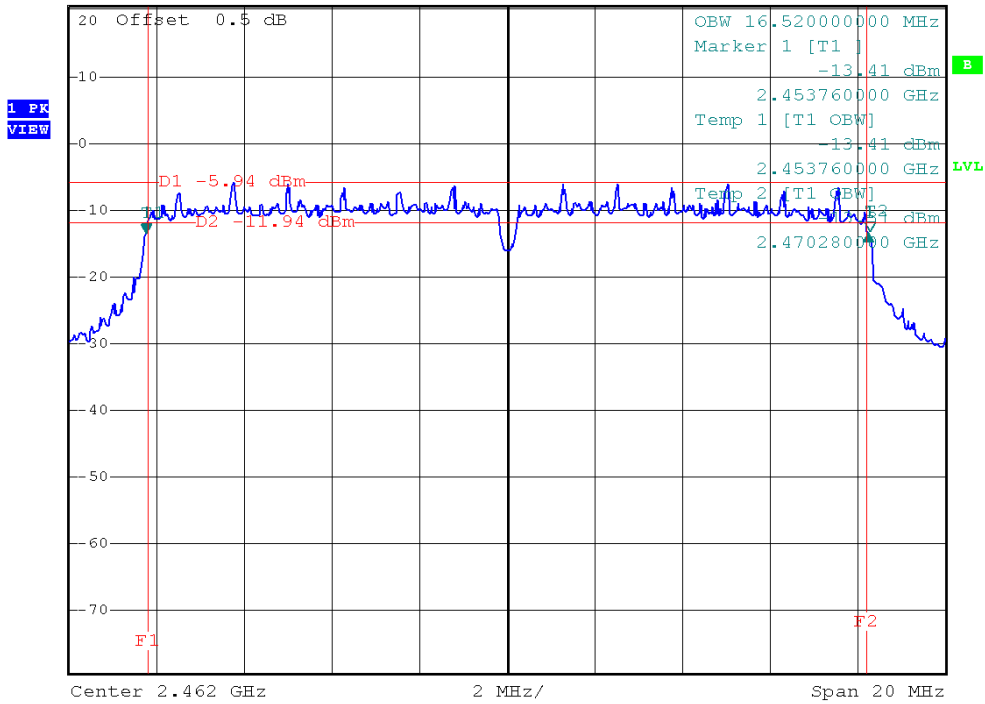
*RBW 100 kHz Delta 1 [T1]
 *VBW 100 kHz -0.17 dB
 Ref 20.5 dBm *Att 30 dB SWT 5 ms 16.520000000 MHz



CH11



*RBW 100 kHz Delta 1 [T1]
 *VBW 100 kHz 0.01 dB
 Ref 20.5 dBm *Att 30 dB SWT 5 ms 16.480000000 MHz

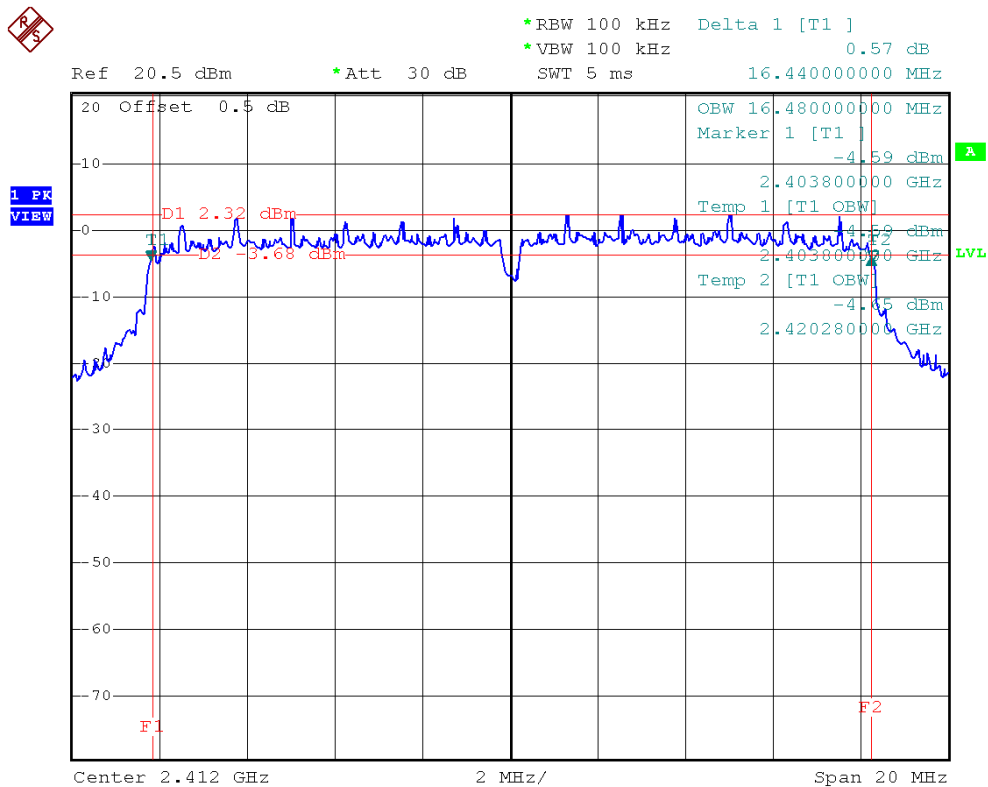




EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH01, CH06, CH11 (Antenna B)		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	16.44	>=500KHz
CH06	2437	16.44	>=500KHz
CH11	2462	16.44	>=500KHz

CH01

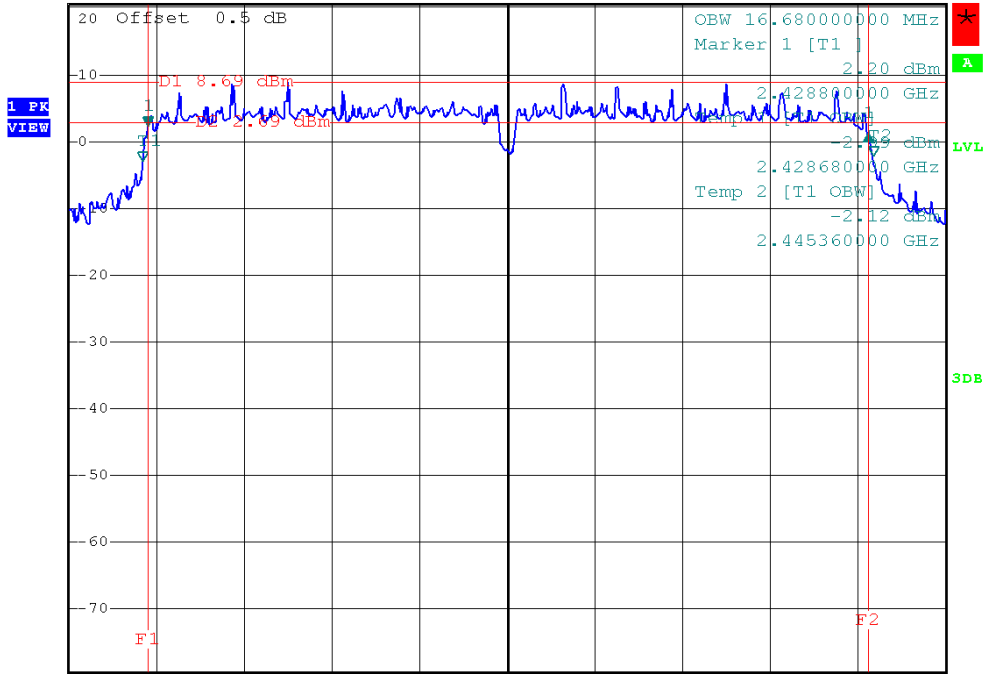




CH06



*RBW 100 kHz Delta 1 [T1]
*VBW 100 kHz -1.09 dB
Ref 20.5 dBm *Att 30 dB SWT 5 ms 16.440000000 MHz

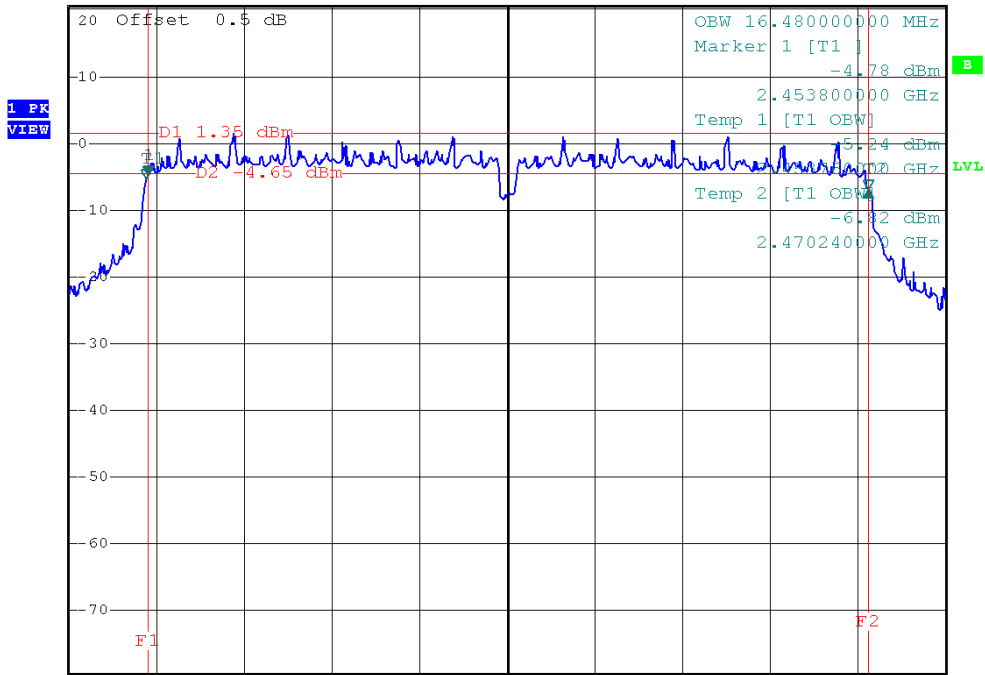


Center 2.437 GHz 2 MHz/ Span 20 MHz

CH11



*RBW 100 kHz Delta 1 [T1]
*VBW 100 kHz -2.05 dB
Ref 20.5 dBm *Att 30 dB SWT 5 ms 16.440000000 MHz



Center 2.462 GHz 2 MHz/ Span 20 MHz



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. 10, 2010
2	Power Meter Sensor	Anritsu	MA2491A	34138	Feb. 10, 2010

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

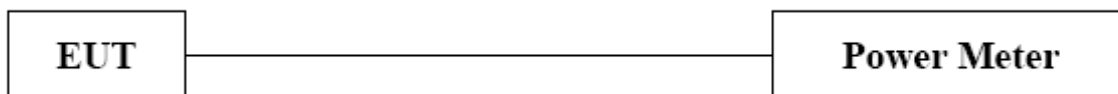
6.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW= 1MHz, VBW= 1MHz, Sweep time = Auto.

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 :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH01, CH06, CH11 (Antenna A)		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	8.98	28.00	0.1585
CH06	2437	13.17	28.00	0.1585
CH11	2462	8.98	28.00	0.1585

Remark :

- (1) **The Peak Output Power test requirement:**
Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.
- (2) **Antenna A Gain = 14.00dBi.**
Antenna B Gain = 4.5dBi.



EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH01, CH06, CH11 (Antenna B)		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	14.77	30.00	1.0000
CH06	2437	17.78	30.00	1.0000
CH11	2462	14.31	30.00	1.0000



EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH01, CH06, CH11 (Antenna A)		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	7.42	28.00	0.1585
CH06	2437	16.20	28.00	0.1585
CH11	2462	5.44	28.00	0.1585

Remark :

- (1) **The Peak Output Power test requirement:**
Systems operating in the 2400-2483.5 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.
- (2) **Antenna A Gain = 14.00dBi.**
Antenna B Gain = 4.5dBi.



EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH01, CH06, CH11 (Antenna B)		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	14.70	30.00	1.0000
CH06	2437	19.38	30.00	1.0000
CH11	2462	12.93	30.00	1.0000



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. 16, 2010

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

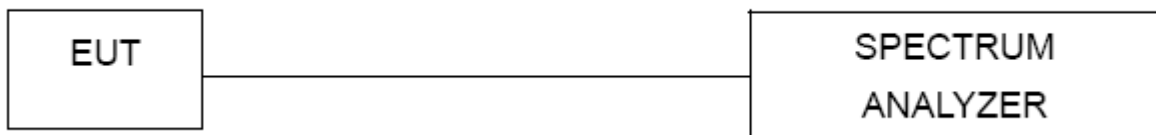
7.1.2 TEST PROCEDURE

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

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 :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH01, CH11 (Antenna A)		

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)
2347.8	-47.44	2489.6	-47.57
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.			

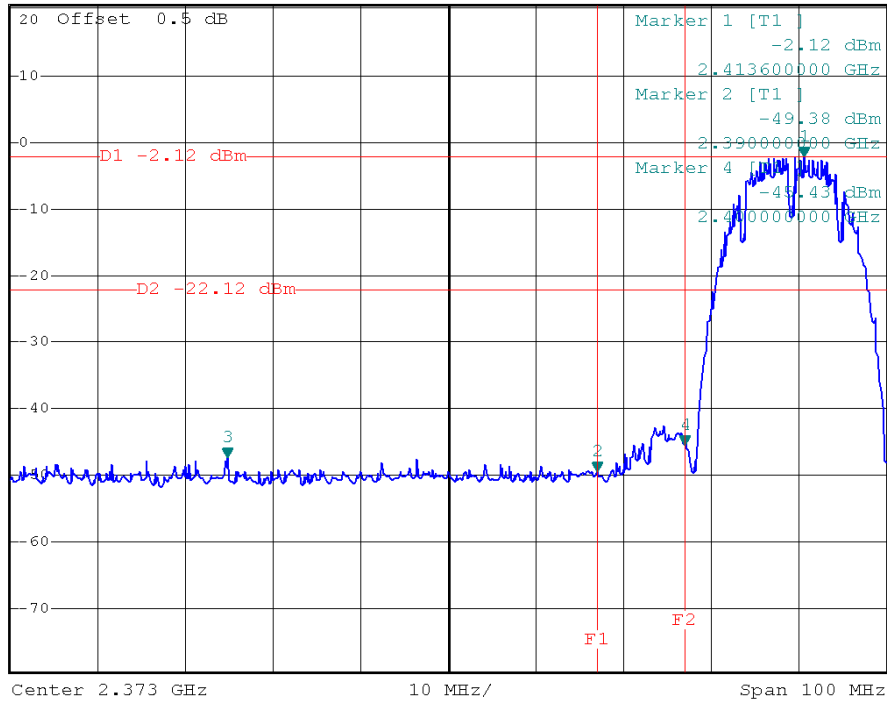


CH01



*RBW 100 kHz Marker 3 [T1]
*VBW 100 kHz -47.44 dBm
Ref 20.5 dBm *Att 30 dB SWT 10 ms 2.347800000 GHz

PK
VIEW

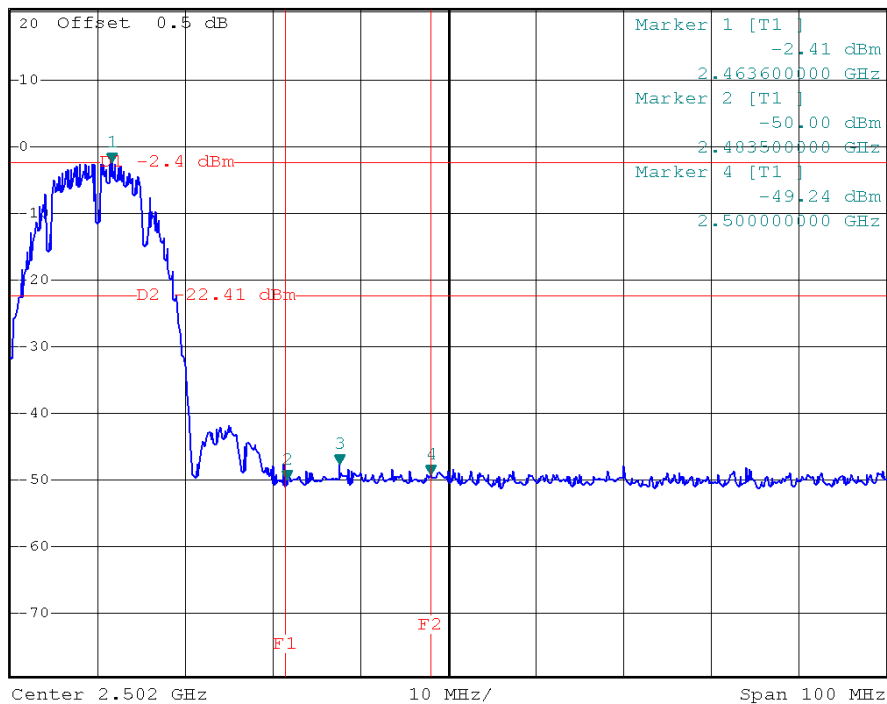


CH11



*RBW 100 kHz Marker 3 [T1]
*VBW 100 kHz -47.57 dBm
Ref 20.5 dBm *Att 30 dB SWT 10 ms 2.489600000 GHz

PK
VIEW





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH01, CH11 (Antenna B)		

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)
2385.8	-47.20	2496.6	-46.63
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.			

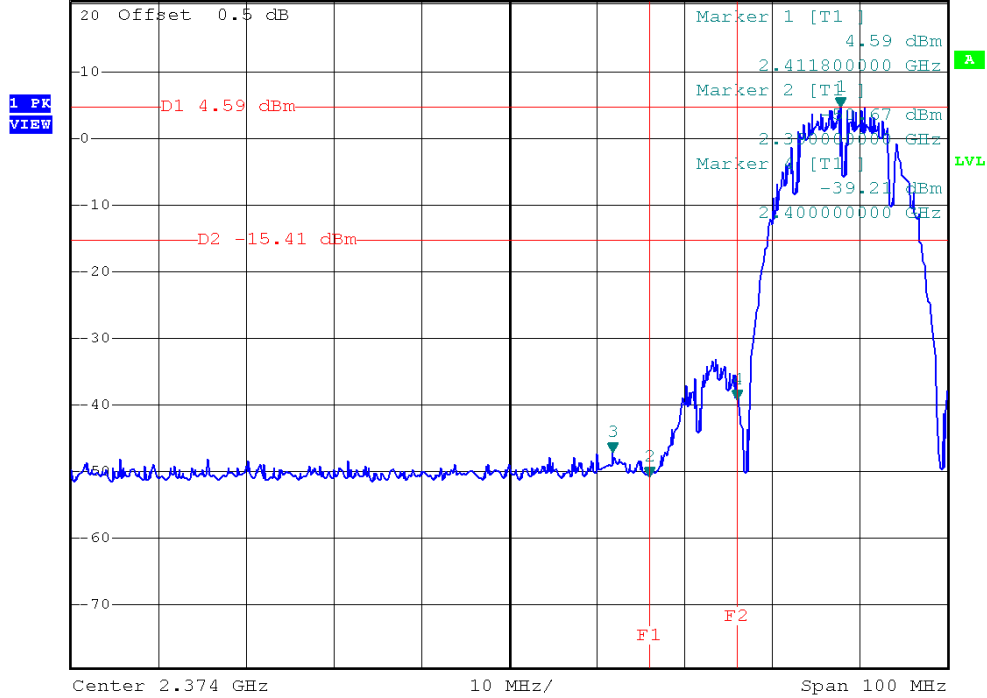


CH01



*RBW 100 kHz Marker 3 [T1]
*VBW 100 kHz -47.20 dBm
*SWT 10 ms 2.385800000 GHz

Ref 20.5 dBm *Att 30 dB

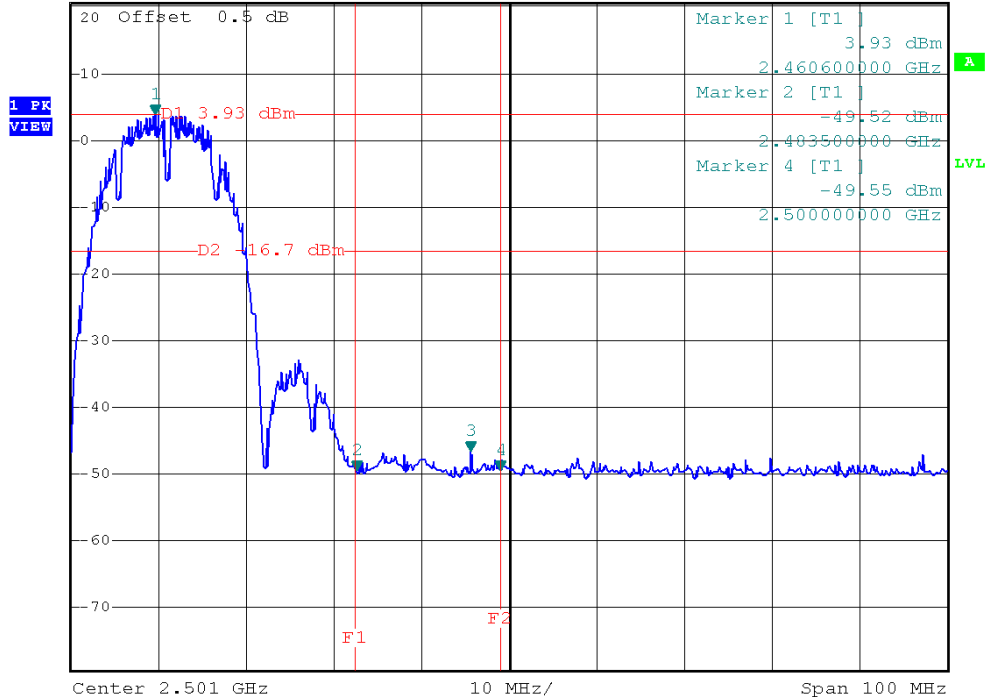


CH11



*RBW 100 kHz Marker 3 [T1]
*VBW 100 kHz -46.63 dBm
SWT 10 ms 2.496600000 GHz

Ref 20.5 dBm *Att 30 dB





EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH01, CH11 (Antenna A)		

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)
2385.8	-47.69	2495.6	-47.67
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.			

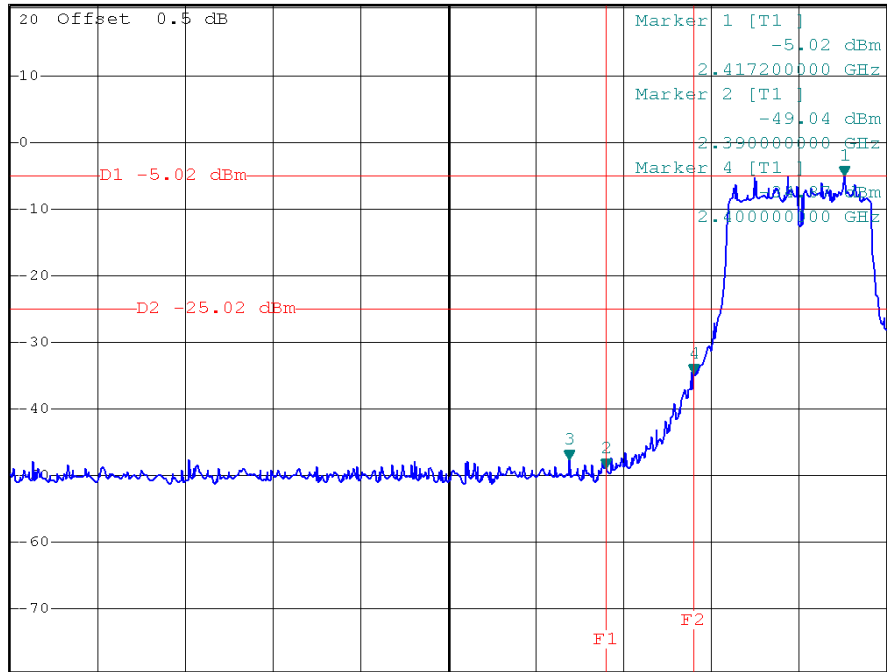


CH01



*RBW 100 kHz Marker 3 [T1]
*VBW 100 kHz -47.69 dBm
Ref 20.5 dBm *Att 30 dB SWT 10 ms 2.385800000 GHz

1 PK
VIEW



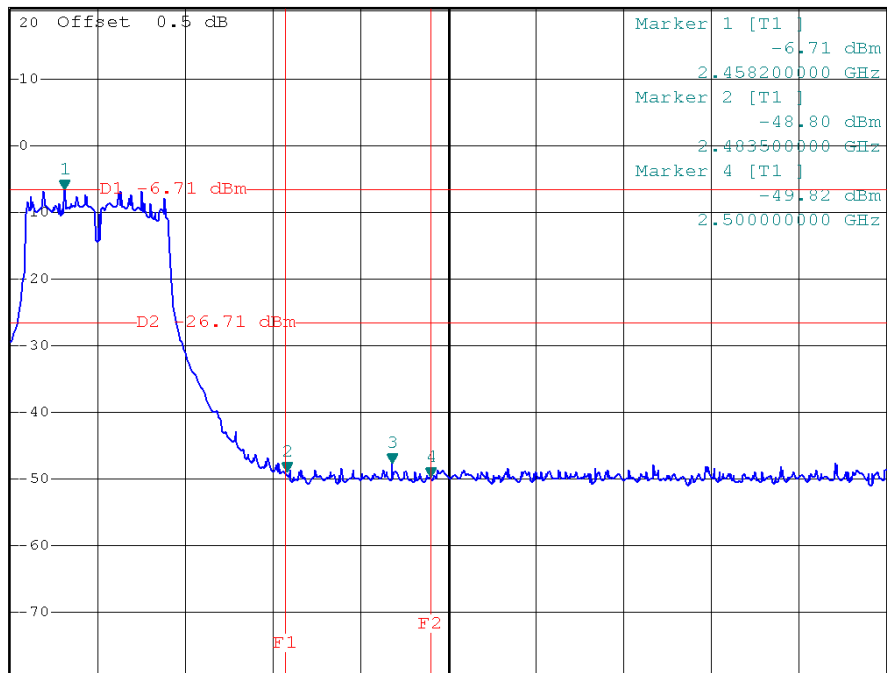
Center 2.372 GHz 10 MHz/ Span 100 MHz

CH11



*RBW 100 kHz Marker 3 [T1]
*VBW 100 kHz -47.67 dBm
Ref 20.5 dBm *Att 30 dB SWT 10 ms 2.495600000 GHz

1 PK
VIEW



Center 2.502 GHz 10 MHz/ Span 100 MHz



EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH01, CH11 (Antenna B)		

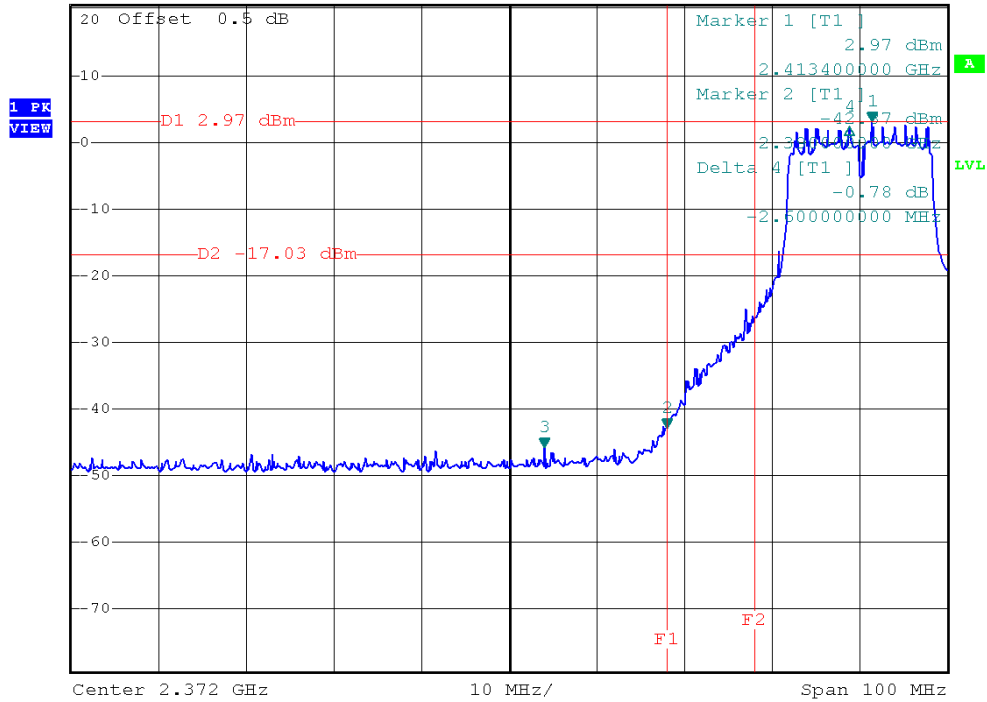
Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2376.0	-45.84	2483.5	-42.91
Result			
In any 100kHz 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.			



CH01



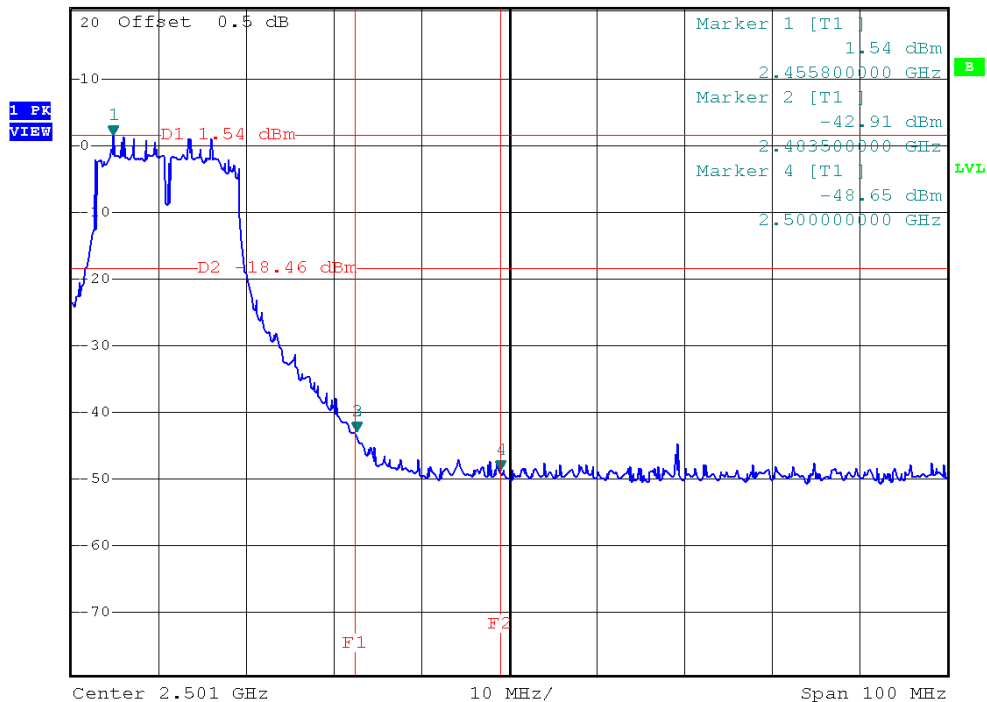
*RBW 100 kHz Marker 3 [T1]
 *VBW 100 kHz -45.84 dBm
 Ref 20.5 dBm *Att 30 dB SWT 10 ms 2.376000000 GHz



CH11



*RBW 100 kHz Marker 3 [T1]
 *VBW 100 kHz -42.91 dBm
 Ref 20.5 dBm *Att 30 dB SWT 10 ms 2.483500000 GHz





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. 16, 2010

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

8.1.2 TEST PROCEDURE

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

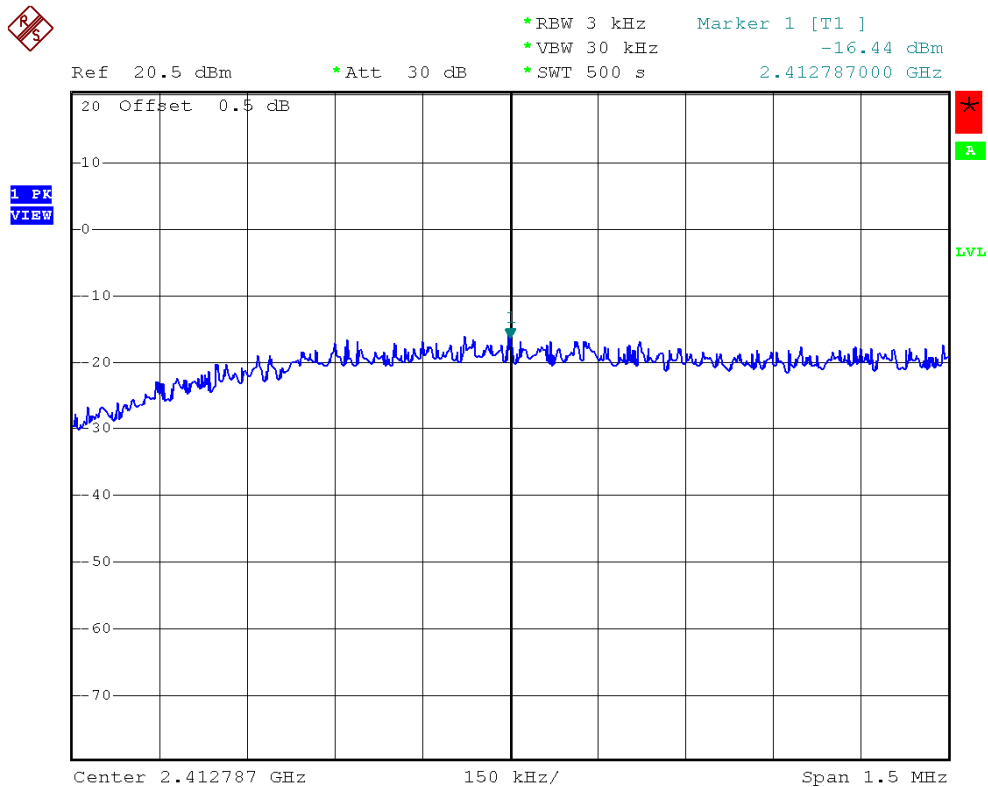


8.1.6 TEST RESULTS

EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH01, CH06, CH11 (Antenna A)		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-16.44	8
CH06	2437	-12.83	8
CH11	2462	-17.49	8

CH01





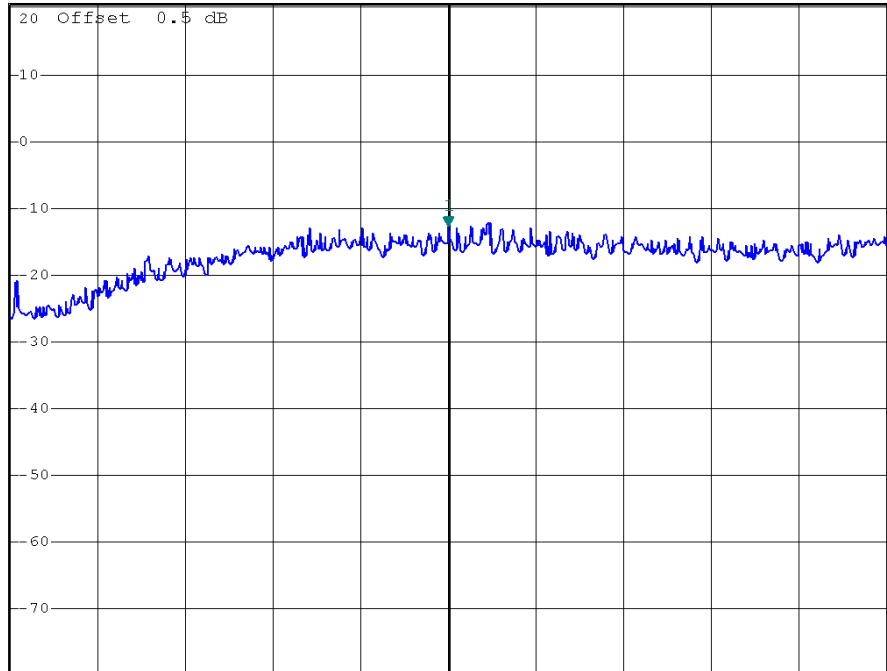
CH06



*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -12.83 dBm
*SWT 500 s 2.437744000 GHz

Ref 20.5 dBm *Att 30 dB

I PK
VIEW



Center 2.437744 GHz 150 kHz/ Span 1.5 MHz

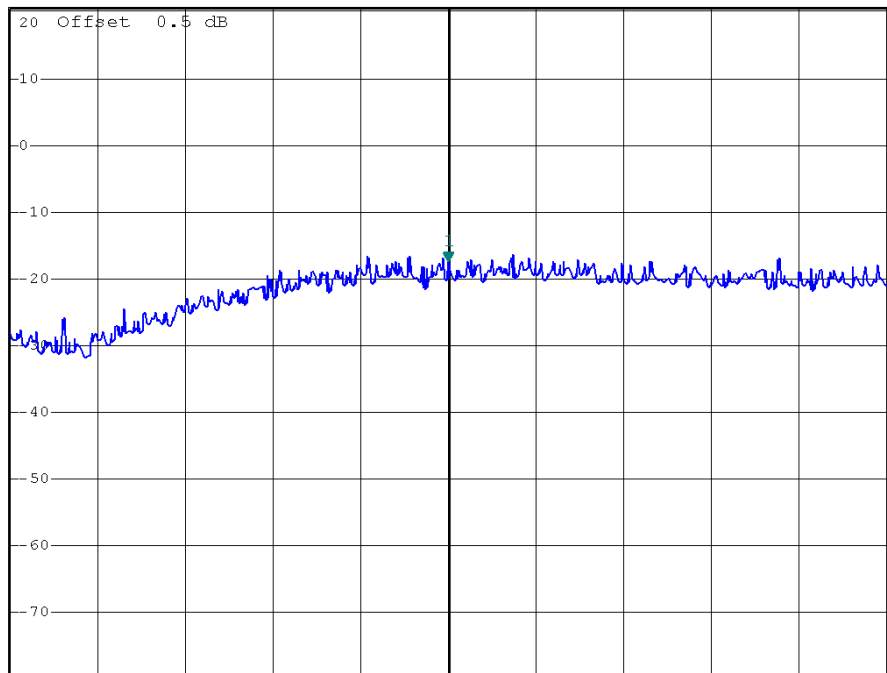
CH11



*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -17.49 dBm
*SWT 500 s 2.462664000 GHz

Ref 20.5 dBm *Att 30 dB

I PK
VIEW



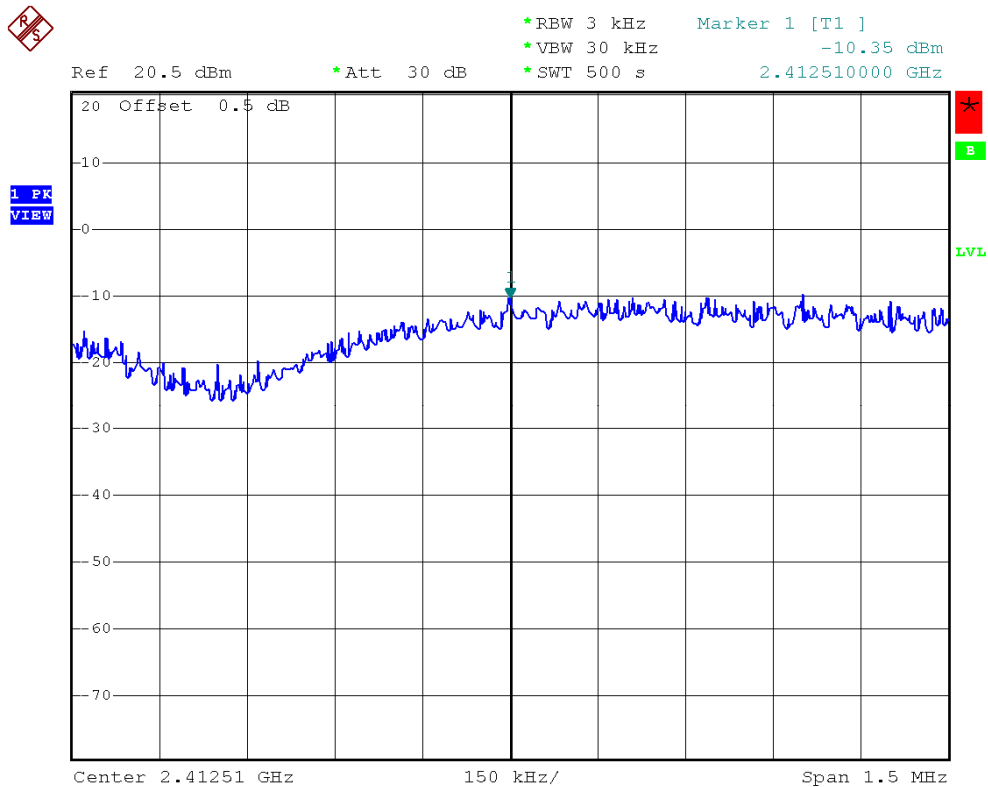
Center 2.462664 GHz 150 kHz/ Span 1.5 MHz



EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11b/CH01, CH06, CH11 (Antenna B)		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-10.35	8
CH06	2437	-6.19	8
CH11	2462	-9.47	8

CH01





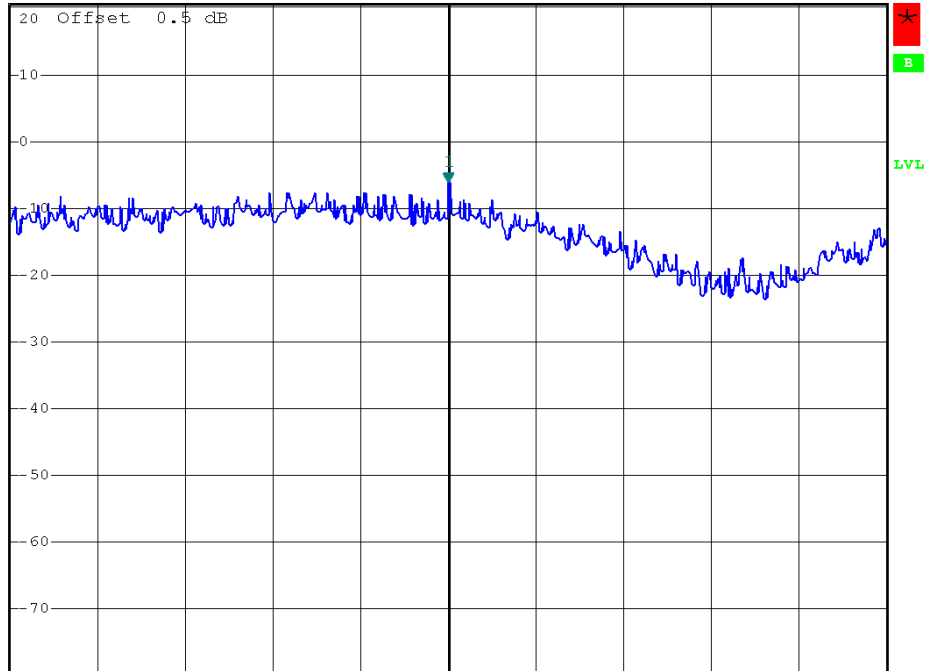
CH06



*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -6.19 dBm
*SWT 500 s 2.436508000 GHz

Ref 20.5 dBm *Att 30 dB

1 PK
VIEW



Center 2.436508 GHz 150 kHz/ Span 1.5 MHz

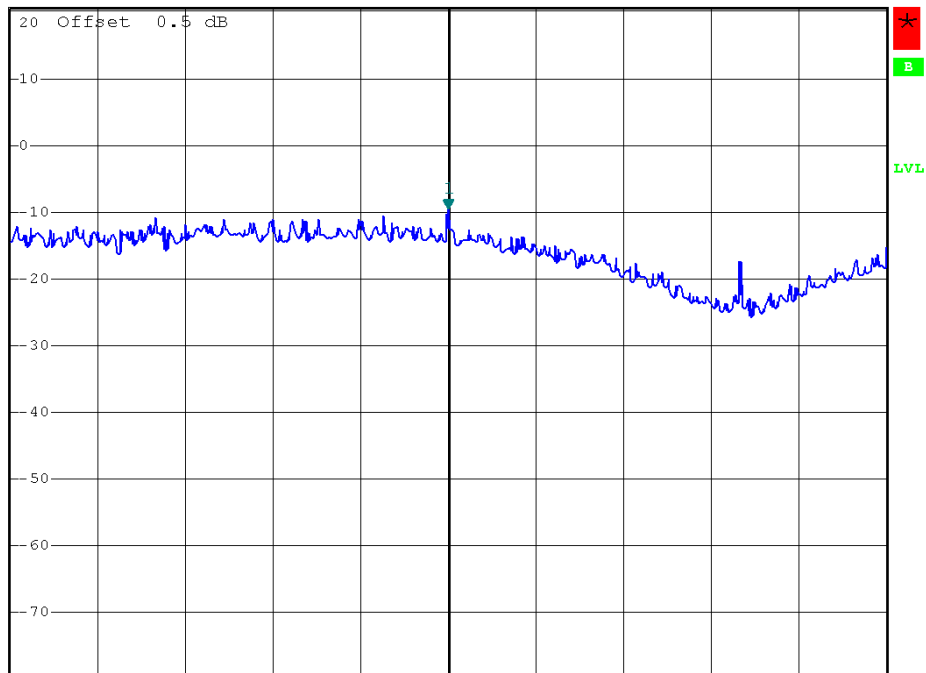
CH11



*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -9.47 dBm
*SWT 500 s 2.461511000 GHz

Ref 20.5 dBm *Att 30 dB

1 PK
VIEW



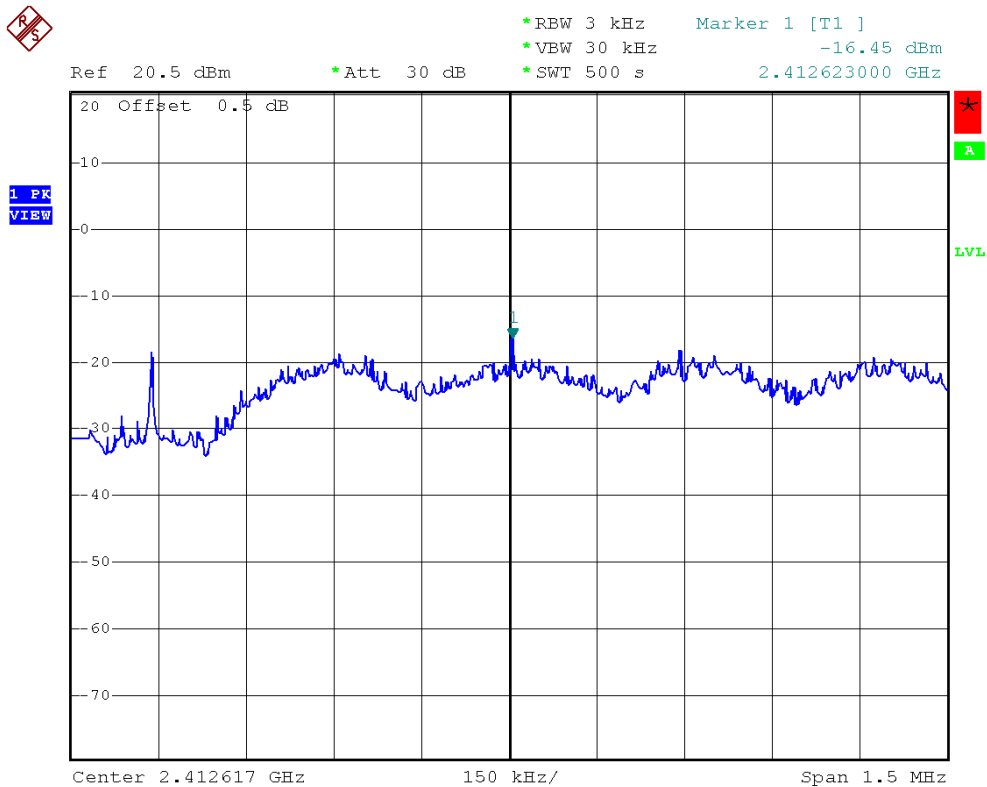
Center 2.461511 GHz 150 kHz/ Span 1.5 MHz



EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH01, CH06, CH11 (Antenna A)		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-16.45	8
CH06	2437	-9.83	8
CH11	2462	-19.44	8

CH01





CH06



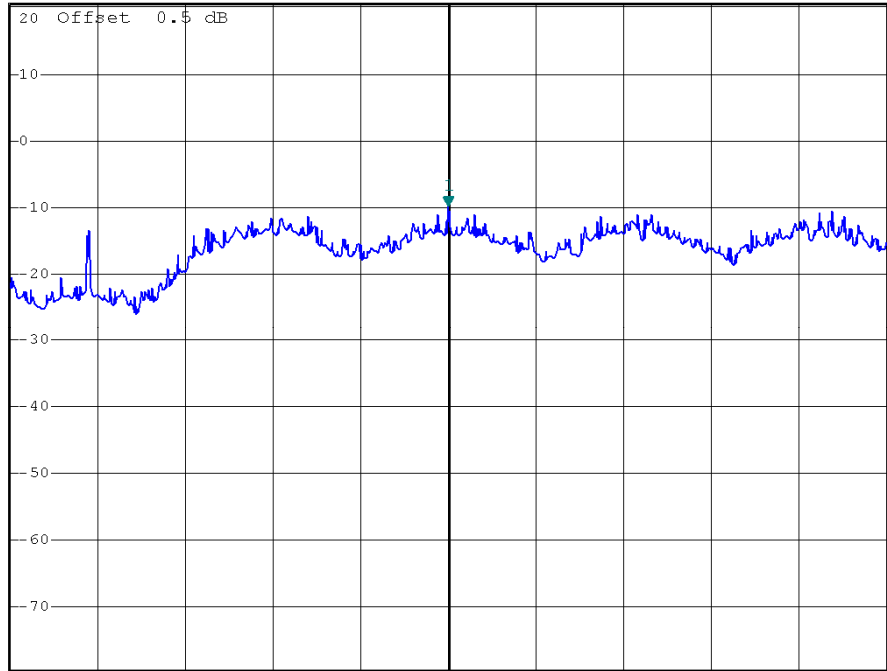
*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -9.83 dBm
*SWT 500 s 2.437621000 GHz

Ref 20.5 dBm

*Att 30 dB

2.437621000 GHz

1 PK
VIEW



Center 2.437621 GHz

150 kHz/

Span 1.5 MHz

CH11



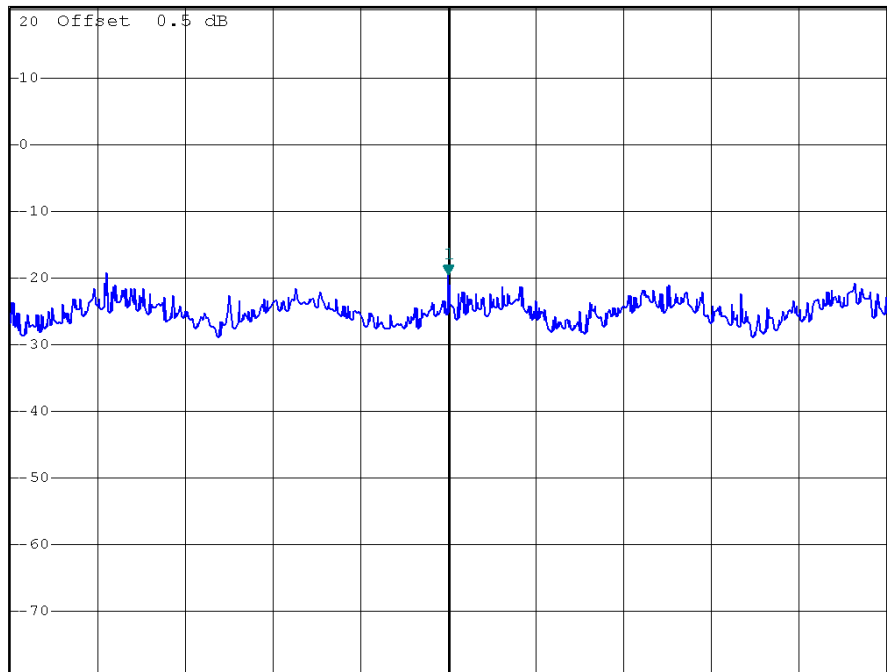
*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -19.44 dBm
*SWT 500 s 2.457256000 GHz

Ref 20.5 dBm

*Att 30 dB

2.457256000 GHz

1 PK
VIEW



Center 2.457256 GHz

150 kHz/

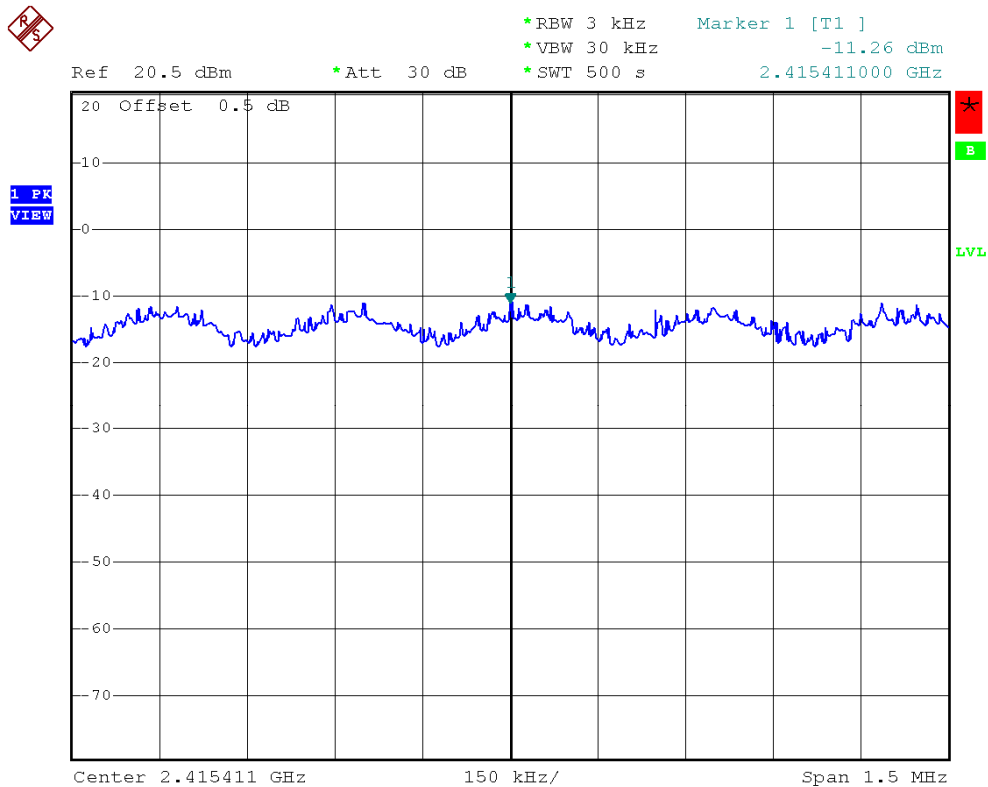
Span 1.5 MHz



EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11g/CH01, CH06, CH11 (Antenna B)		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-11.26	8
CH06	2437	-7.46	8
CH11	2462	-12.56	8

CH01





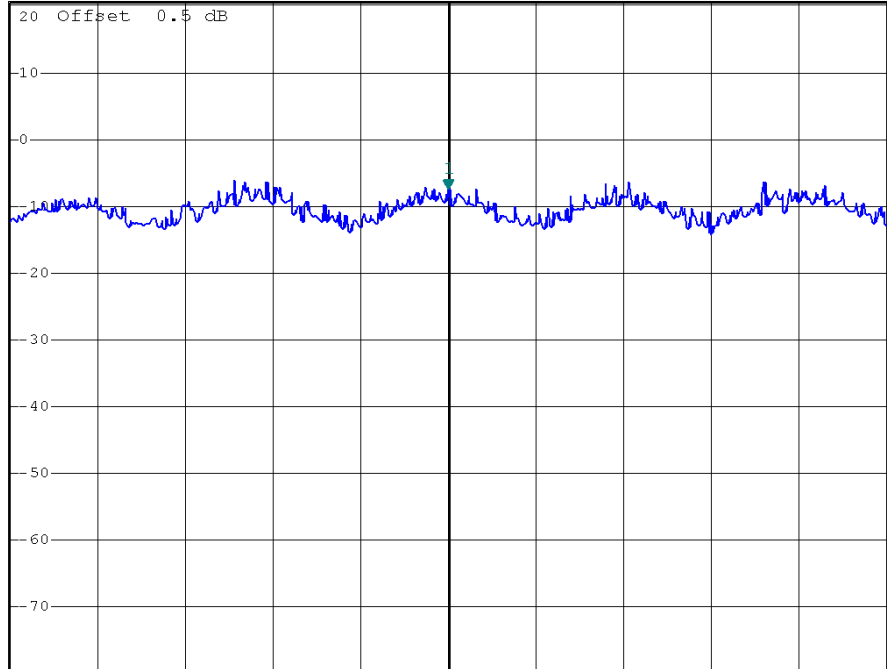
CH06



*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -7.46 dBm
*SWT 500 s 2.439836000 GHz

Ref 20.5 dBm

*Att 30 dB



Center 2.439836 GHz

150 kHz/

Span 1.5 MHz

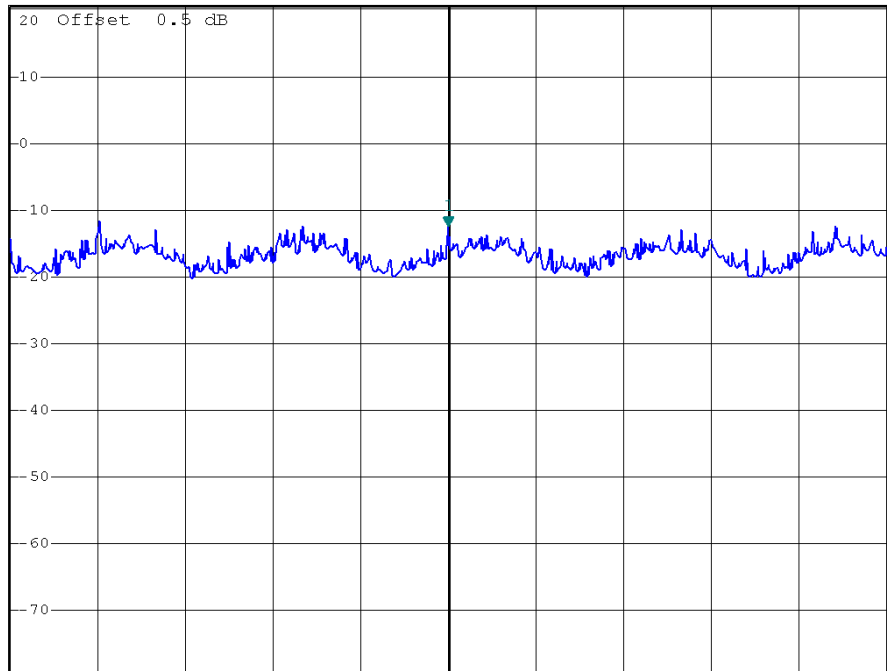
CH11



*RBW 3 kHz Marker 1 [T1]
*VBW 30 kHz -12.56 dBm
*SWT 500 s 2.461011000 GHz

Ref 20.5 dBm

*Att 30 dB



Center 2.461011 GHz

150 kHz/

Span 1.5 MHz



9. RF EXPOSURE TEST

9.1 APPLIED PROCEDURES / LIMIT

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

(A) Limits for Occupational / Controlled Exposure

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

(B) Limits for General Population / Uncontrolled Exposure

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

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

9.1.1 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power Meter	Anritsu	ML2487A	6K00004714	Feb. 10, 2010
2	Power Meter Sensor	Anritsu	MA2491A	34138	Feb. 10, 2010

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

9.1.2 MPE CALCULATION METHOD

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

E = Electric field (V/m)

P = Peak RF output power (W)

G = EUT Antenna numeric gain (numeric)

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

The formula can be changed to

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

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



9.1.3 DEVIATION FROM STANDARD

No deviation.

9.1.4 TEST SETUP



9.1.5 EUT OPERATION CONDITIONS

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



9.1.6 TEST RESULTS

EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11b (Antenna A)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)
2412	14.00	25.1189	8.9800	7.9068	0.039532	1
2437	14.00	25.1189	13.1700	20.7491	0.103741	1
2462	14.00	25.1189	8.9800	7.9068	0.039532	1



EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11b (Antenna B)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)
2412	4.50	2.8184	14.7700	29.9916	0.016825	1
2437	4.50	2.8184	17.7800	59.9791	0.033647	1
2462	4.50	2.8184	14.3100	26.9774	0.015134	1



EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11g (Antenna A)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)
2412	14.00	25.1189	7.4200	5.5208	0.027603	1
2437	14.00	25.1189	16.2000	41.6869	0.208425	1
2462	14.00	25.1189	5.4400	3.4995	0.017496	1



EUT :	Professional Outdoor 2.4Ghz 802.11b/g, AP/Bridge/Repeater.	Model Name :	AP-2010
Temperature :	13 °C	Relative Humidity :	64 %
Test Voltage :	DC 48V		
Test Mode :	802.11g (Antenna B)		

Frequency (MHz)	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)
2412	4.50	2.8184	14.7000	29.5121	0.016556	1
2437	4.50	2.8184	19.3800	86.6962	0.048635	1
2462	4.50	2.8184	12.9300	19.6336	0.011014	1