Radio Test Report

FCC ID: HFS-NL

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

Issued Date : Oct. 27, 2008
Project No. : R0809009
Equipment : Notebook Computer
Model Name : NL**(**=0~9 or a~z or A~Z or Blank)

Applicant : Quanta Computer Inc.
Address : 188, Wen Hwa 2nd Rd., Kuei shan, Tao Yuan 33377, Taiwan

Tested by:
Neutron Engineering Inc. EMC Laboratory
Date of Test:
Sep. 26, 2008 ~ Oct. 09, 2008

Testing Engineer : Rush Kao
(Rush Kao)

Technical Manager : Jeff Yang
(Jeff Yang)

Authorized Signatory : Andy Chiu
(Andy Chiu)

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NVLAP Lab Code: 200145-0 ilac-MRA TAF Testing Laboratory 0659

Declaration

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

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Limitation

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

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1. CERTIFICATION

Equipment : Notebook Computer
Brand Name : QCI
Model No. : NL**(**=0~9 or a~z or A~Z or Blank)
Applicant : Quanta Computer Inc.
Date of Test : Sep. 26, 2008 ~ Oct. 09, 2008
Standards : FCC Part15, Subpart C / ANSI C63.4 : 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.
The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-R0809009) 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 (15.247) , Subpart C (FOR DSSS)			
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	

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

NOTE:

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

2.1 TEST FACILITY

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

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement **y** ± **U**，where expended uncertainty **U** is based on a standard uncertainty multiplied by a coverage factor of **k=2**，providing a level of confidence of approximately **95** %。

A. Conducted Measurement :

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

B. Radiated Measurement :

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

<table>
<tr><td>Equipment</td><td>Notebook Computer</td></tr>
<tr><td>Brand Name</td><td>QCI</td></tr>
<tr><td>Model Name</td><td>NL**(**=0~9 or a~z or A~Z or Blank)</td></tr>
<tr><td>OEM Brand/Model No.</td><td>N/A</td></tr>
<tr><td>Model Difference</td><td>Model NL**, ** may be 0~9 or a~z or A~Z or Blank. Model difference between each other only the changes in which not effective the EMI performance.</td></tr>
<tr><td colspan="2">For DSSS Description：</td></tr>
<tr><td>Product Description</td><td>
<table>
<tr><td>Operation Frequency:</td><td>2412~2462MHz</td></tr>
<tr><td>Modulation Type:</td><td>802.11b:CCK, DQPSK, DBPSK
802.11g:OFDM
802.11n:OFDM(1 TX & 1 RX)</td></tr>
<tr><td>Bit Rate of Transmitter:</td><td>802.11b:
11/5.5/2/1 Mbps
802.11g:
54/48/36/24/18/12/9/6 Mbps
802.11n up to +150 Mbps</td></tr>
<tr><td>Number Of Channel:</td><td>11CH .Please see Note 2.</td></tr>
<tr><td>Antenna Designation:</td><td>Please see Note 4.</td></tr>
<tr><td>Antenna Gain(Peak):</td><td>Please see Note 4.</td></tr>
<tr><td>Output Power(Max):</td><td>802.11b:17.69 dBm (Max.)
802.11g:21.10 dBm (Max.)
802.11n(20MHz):20.66 dBm (Max.)
802.11n(40MHz):20.91 dBm (Max.)</td></tr>
</table>
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.
</td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 3.</td></tr>
<tr><td>Power Source</td><td>DC Voltage supplied from AC/DC adapter.</td></tr>
<tr><td>Power Rating</td><td>AC I/P 100-240V~1.2A(1.2A), 50-60Hz LPS/ DC O/P 12V, 3A</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the User's Manual</td></tr>
<tr><td>Products Covered</td><td>Adapter: ADP-36CH A / DELTA ELECTRONIC INC.</td></tr>
</table>

<table>
<tr><th colspan="2">For FHSS Description：</th></tr>
<tr><td>Product Description</td><td>
<table>
<tr><td>Operation Frequency:</td><td>2402~2480MHz.</td></tr>
<tr><td>Modulation Type:</td><td>FHSS</td></tr>
<tr><td>Bit Rate of Transmitter:</td><td>1M/2M/3Mbit/sec</td></tr>
<tr><td>Number Of Channel:</td><td>79 CH. Please see Note 3.</td></tr>
<tr><td>Antenna Designation:</td><td>Please see Note 4.</td></tr>
<tr><td>Antenna Gain(Peak)</td><td>Please see Note 4.</td></tr>
<tr><td>Output Power:</td><td>-1.54 dBm (Max.)</td></tr>
</table>
Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.
</td></tr>
<tr><td>Channel List</td><td>Please refer to the Note 3.</td></tr>
<tr><td>Power Source</td><td>DC Voltage supplied from AC/DC adapter.</td></tr>
<tr><td>Power Rating</td><td>AC I/P 100-240V~1.2A(1.2A), 50-60Hz LPS/ DC O/P 12V, 3A</td></tr>
<tr><td>Connecting I/O Port(s)</td><td>Please refer to the User's Manual</td></tr>
<tr><td>Products Covered</td><td>Adapter: ADP-36CH A / DELTA ELECTRONIC INC.</td></tr>
</table>

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. The EUT is a 1 (TX) x 1 (RX) SISO device.
3. **CH 01 – CH 11 for 802.11b, 802.11g, 802.11n(20MHz)**
   CH 03 – CH 09 for 802.11n(40MHz)

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

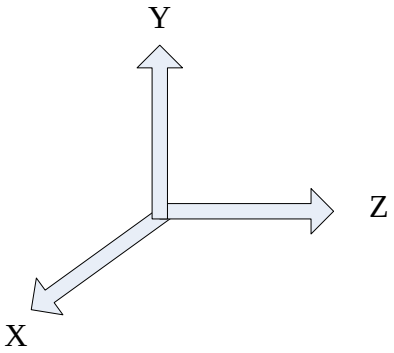
CH 00 – CH 78 for Bluetooth

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

4. Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1.	INTEL	CMPC 2.0	PIFA	UFL	0.3
2.	Ethertronics	GB04001-A01	PIFA	NA	2

NOTE : ANT.1 FOR WALN
ANT.2 FOR BLUETOOTH



3.2 DESCRIPTION OF TEST MODES

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

Pretest Test Mode	Description
Mode 1	802.11b/CH01, CH06, CH11
Mode 2	802.11g/CH01, CH06, CH11
Mode 3	802.11n/20M/CH01, CH06, CH11
Mode 4	802.11n/40M/CH03, CH6, CH9
Mode 5	Bluetooth/CH00, CH39, CH78

For Conducted Test	
Final Test Mode	Description
Mode 1	802.11b/CH06
Mode 5	Bluetooth/CH39

For Radiated Test (30 – 1000 MHz)	
Final Test Mode	Description
Mode 1	802.11b/CH06
Mode 5	Bluetooth/CH39

For Radiated Test (Above 1000 MHz)	
Final Test Mode	Description
Mode 1	802.11b/CH01, CH06, CH11
Mode 2	802.11g/CH01, CH06, CH11
Mode 3	802.11n/20M/CH01, CH06, CH11
Mode 4	802.11n/40M/CH03, CH6, CH9
Mode 5	Bluetooth/CH00, CH39, CH78

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

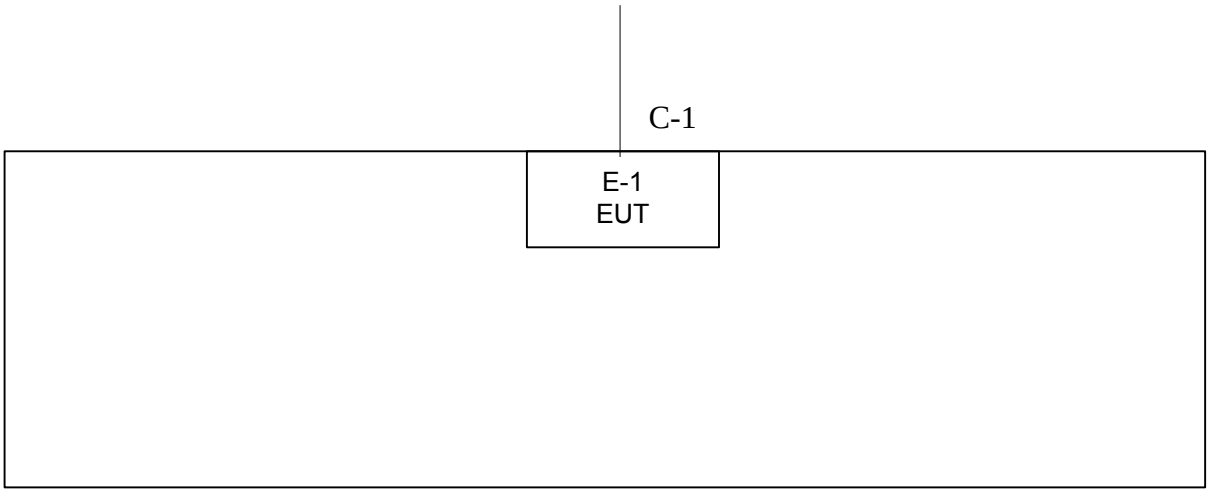
During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Test software Version	RT307xQA		
Frequency (MHz)	2412 MHz	2442 MHz	2472 MHz
IEEE 802.11b DSSS	0D	0E	0F
IEEE 802.11g OFDM	17	16	12

Test software Version	RT307xQA		
Frequency (MHz)	2412 MHz	2437 MHz	2462 MHz
IEEE 802.11n (20MHz)	16	14	11
Frequency (MHz)	2422 MHz	2437 MHz	2452 MHz
IEEE 802.11n (40MHz)	14	15	14

Test software Version	Broadcom Bluetooth		
Frequency	2402 MHz	2441 MHz	2480 MHz
Power Parameters	0dBm	0dBm	0dBm

3.4 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	Notebook Computer	QCI	NL**	HFS-NL	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	YES	1.5M	Power Line

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 (FOR DSSS)

4.1 CONDUCTED EMISSION MEASUREMENT

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

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

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

4.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test Cable	N/A	C01	N/A	Oct. 9, 2009
2	LISN (SR03)	EMCO	3816/2	00042991	Jan. 29, 2009
3	Pulse Limiter	Electro-Metrics	EM-7600	112644	Nov. 26, 2009
4	50Ω Terminator	N/A	N/A	N/A	May. 13, 2009
5	EMI Test Receiver	R&S	ESCI	100082	Feb. 23, 2009
6	LISN	EMCO	4825/2	00028234	Jul. 09, 2009

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

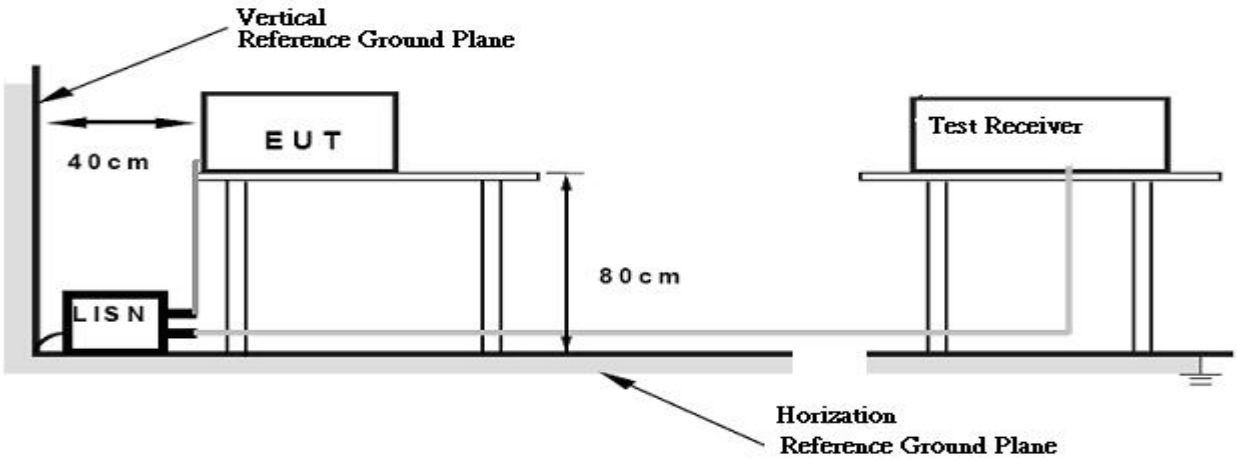
4.1.3 TEST PROCEDURE

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

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.7 TEST RESULTS

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	26°C	Relative Humidity：	56%
Pressure：	1011 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH06		

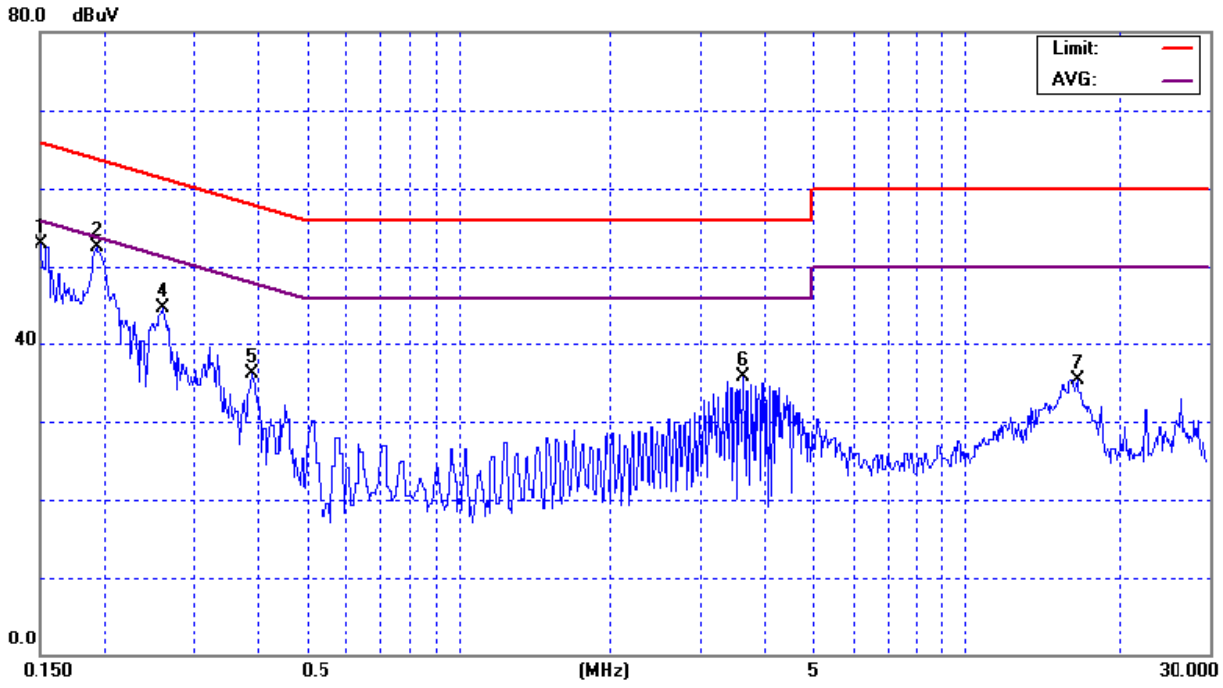
Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Line	52.83	*	66.00	56.00	-13.17	(QP)
0.19	Line	52.47	38.85	63.90	53.90	-11.43	(QP)
0.26	Line	44.66	*	61.41	51.41	-16.75	(QP)
0.39	Line	36.01	*	58.09	48.09	-22.08	(QP)
3.64	Line	35.67	*	56.00	46.00	-20.33	(QP)
16.55	Line	35.33	*	60.00	50.00	-24.67	(QP)

Remark

(1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz；SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz。Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz。

(2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform。In this case, a " * " marked in AVG Mode column of Interference Voltage Measured。

(3) Measuring frequency range from 150KHz to 30MHz。



EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	26°C	Relative Humidity：	56%
Pressure：	1011 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH06		

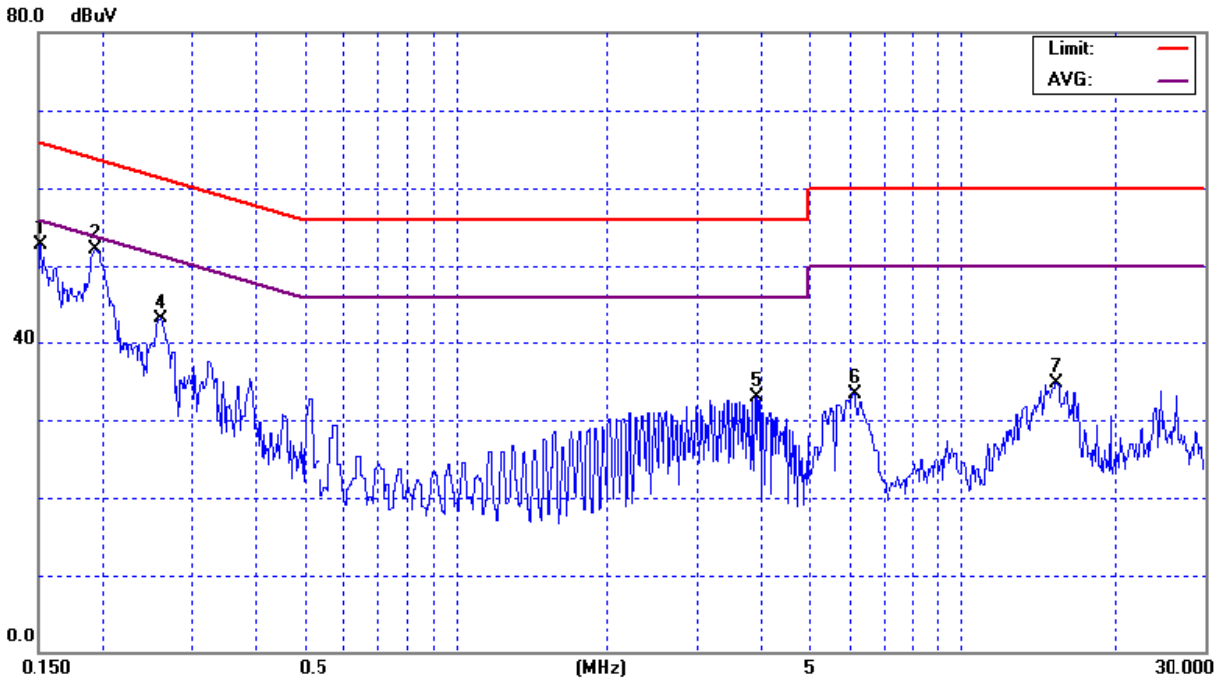
Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Neutral	52.71	*	65.92	55.92	-13.21	(QP)
0.19	Neutral	52.15	36.90	63.89	53.89	-11.74	(QP)
0.26	Neutral	43.02	*	61.43	51.43	-18.41	(QP)
3.90	Neutral	32.87	*	56.00	46.00	-23.13	(QP)
6.10	Neutral	33.38	*	60.00	50.00	-26.62	(QP)
15.35	Neutral	34.76	*	60.00	50.00	-25.24	(QP)

Remark

(1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz；SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz。Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz。

(2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform。In this case, a " * " marked in AVG Mode column of Interference Voltage Measured。

(3) Measuring frequency range from 150KHz to 30MHz。



4.2 RADIATED EMISSION MEASUREMENT

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

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

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

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3176	Jul. 01, 2009
2	Test Cable	N/A	10M_OS01	N/A	Oct. 20, 2009
3	Test Cable	N/A	OS01-1/-2	N/A	Oct. 09, 2009
4	Pre-Amplifier	Anritsu	MH648A(OS01)	M09961	Oct. 09, 2009
5	Antenna Mast	Chance Most	CMTB-1.5	N/A	N/A
6	Turn Table	Chance Most	CMTB-1.5	N/A	N/A
7	EMI Test Receiver	R&S	ESCI	100080	Mar. 08, 2009
8	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 14, 2009
9	Horn Antenna	Schwarzbeck	BBHA-9120	D546	Aug. 17, 2009
10	Microwave Pre_amplifier	Agilent	8449B	3008A02331	Apr. 23, 2009
11	Microflex Cable	NA	NA	1m	Aug. 15, 2009
12	Microflex Cable	NA	NA	10M	Feb. 20, 2009

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

4.2.3 TEST PROCEDURE

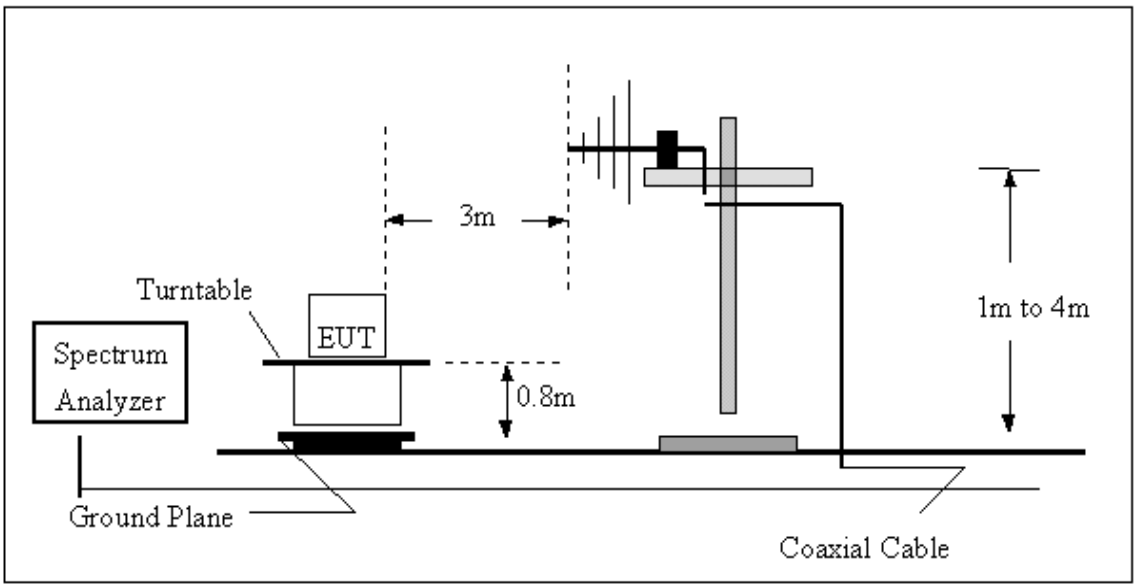
a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD

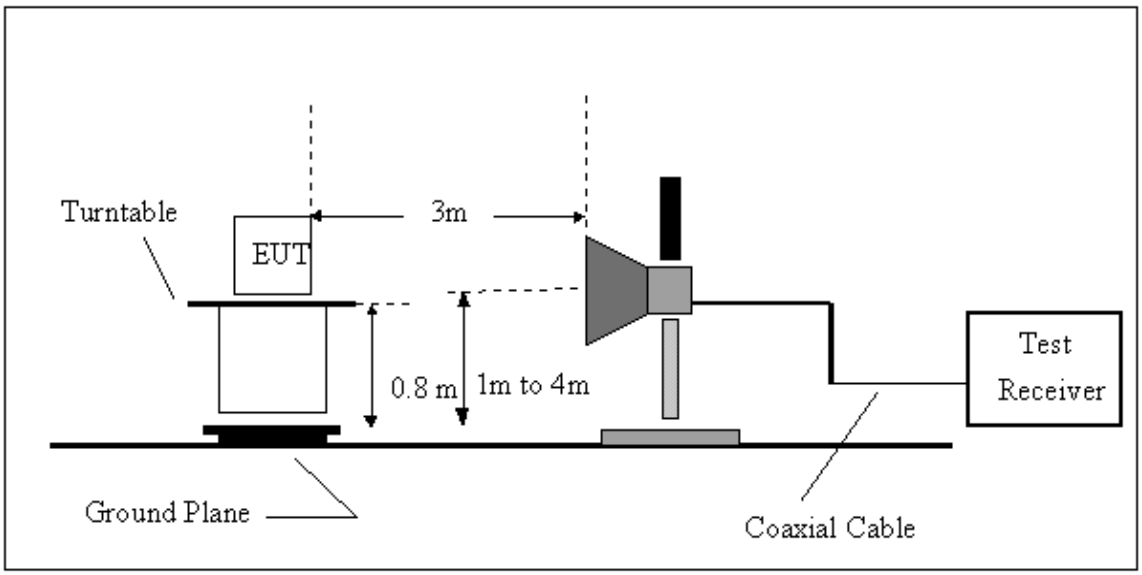
No deviation

4.2.5 TEST SETUP

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



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



4.2.6 EUT OPERATING CONDITIONS

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

4.2.7 TEST RESULTS-BETWEEN 30MHZ - 1000MHZ

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	22°C	Relative Humidity：	62%
Pressure：	1016 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH06	EUT Orthogonal Axis：	X

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
251.16	V	42.87	-9.24	33.63	46.00	- 12.37	
276.38	V	43.26	-8.42	34.84	46.00	- 11.16	
301.60	V	48.84	-7.72	41.12	46.00	- 4.88	
353.98	V	41.95	-6.30	35.65	46.00	- 10.35	
429.60	V	41.54	-4.38	37.16	46.00	- 8.84	
530.51	V	36.20	-2.37	33.83	46.00	- 12.17	

Remark：

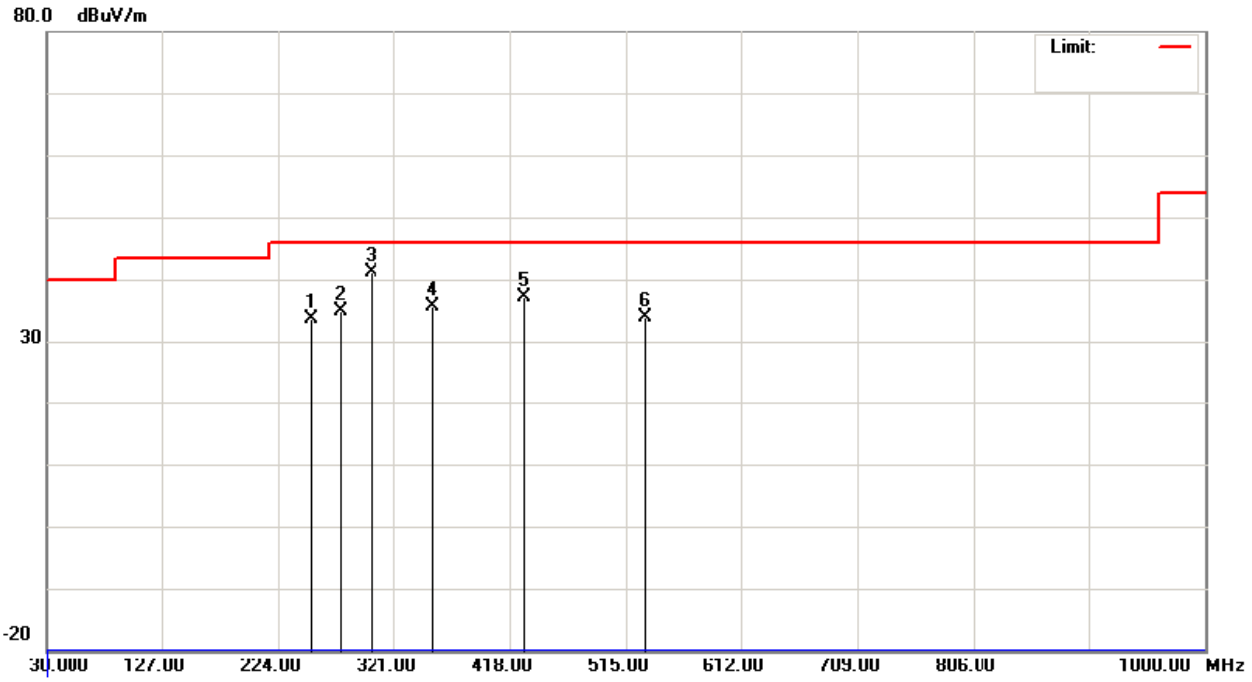
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(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：	Notebook Computer	Model No. ：	NL**
Temperature：	22°C	Relative Humidity：	62%
Pressure：	1016 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH06	EUT Orthogonal Axis：	X

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
229.82	H	38.13	-10.05	28.08	46.00	- 17.92	
301.60	H	42.11	-7.72	34.39	46.00	- 11.61	
353.98	H	39.87	-6.30	33.57	46.00	- 12.43	
377.26	H	37.66	-5.78	31.88	46.00	- 14.12	
429.64	H	37.58	-4.38	33.20	46.00	- 12.80	
480.08	H	35.81	-3.19	32.62	46.00	- 13.38	

Remark：

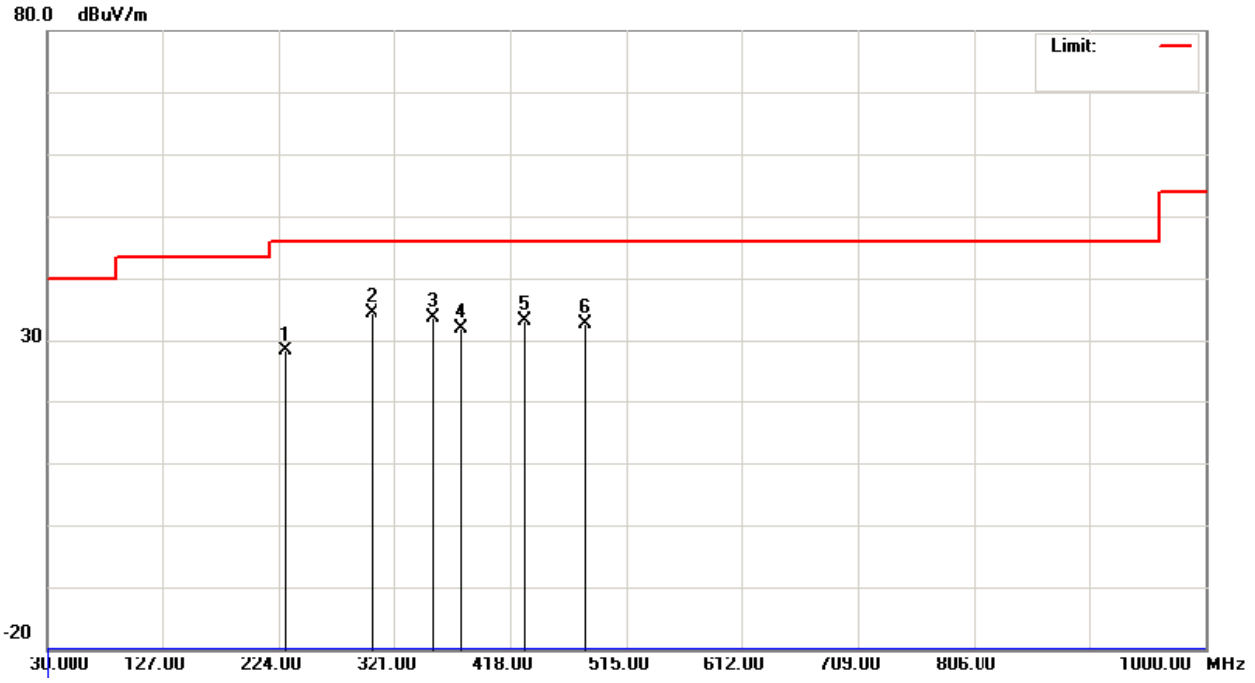
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; " H" denotes spurious frequency. "E" denotes band edge frequency.

(4) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission 。

(5) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



4.2.8 TEST RESULTS - ABOVE 1000MHZ

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity：	76%
Pressure：	1015 hPa	Test Voltage：	AC 120V/60Hz
Test Mode ：	802.11b/CH01	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	22.12	13.25	32.57	54.69	45.82	74.00	54.00	X/H
2412.00	V	67.54	64.44	32.70	100.24	97.14			X/F
4824.25	V	43.28	32.67	4.05	47.33	36.72	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

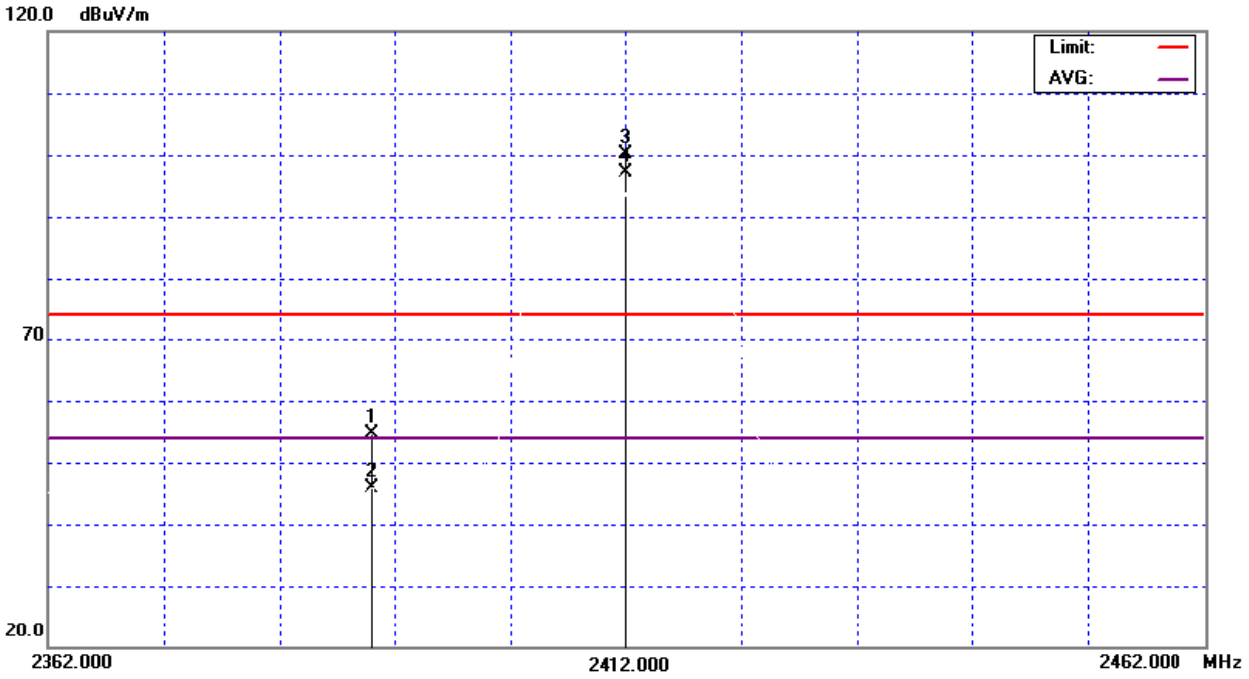
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

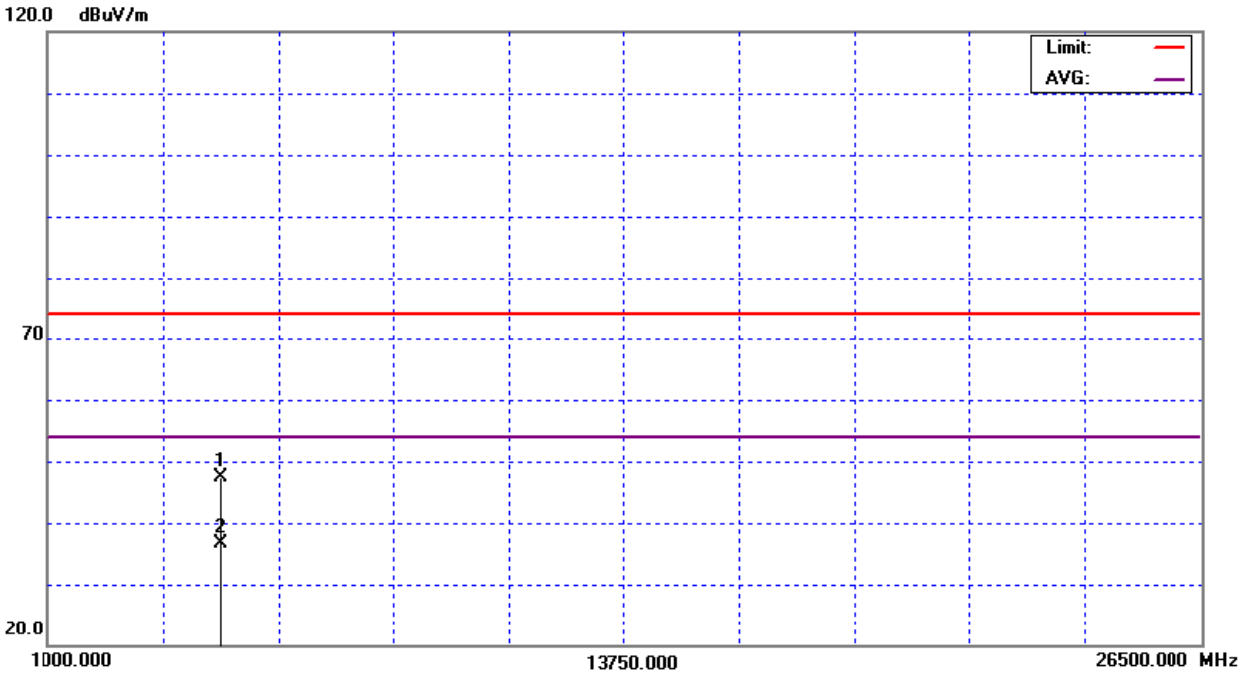
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11b/CH01(Above 1000 MHz, Vertical)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11b/CH01	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	23.07	13.62	32.57	55.64	46.19	74.00	54.00	X/H
2412.00	H	68.46	65.31	32.70	101.16	98.01			X/F
4824.05	H	42.54	32.25	4.05	46.59	36.30	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

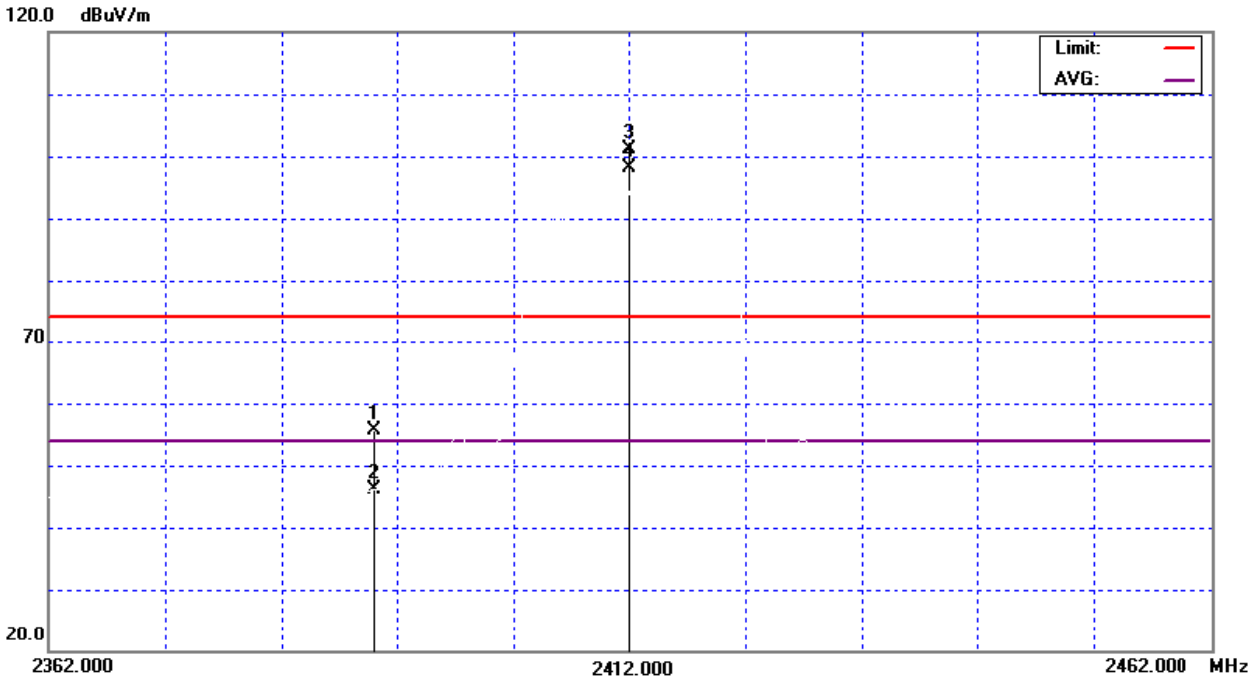
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

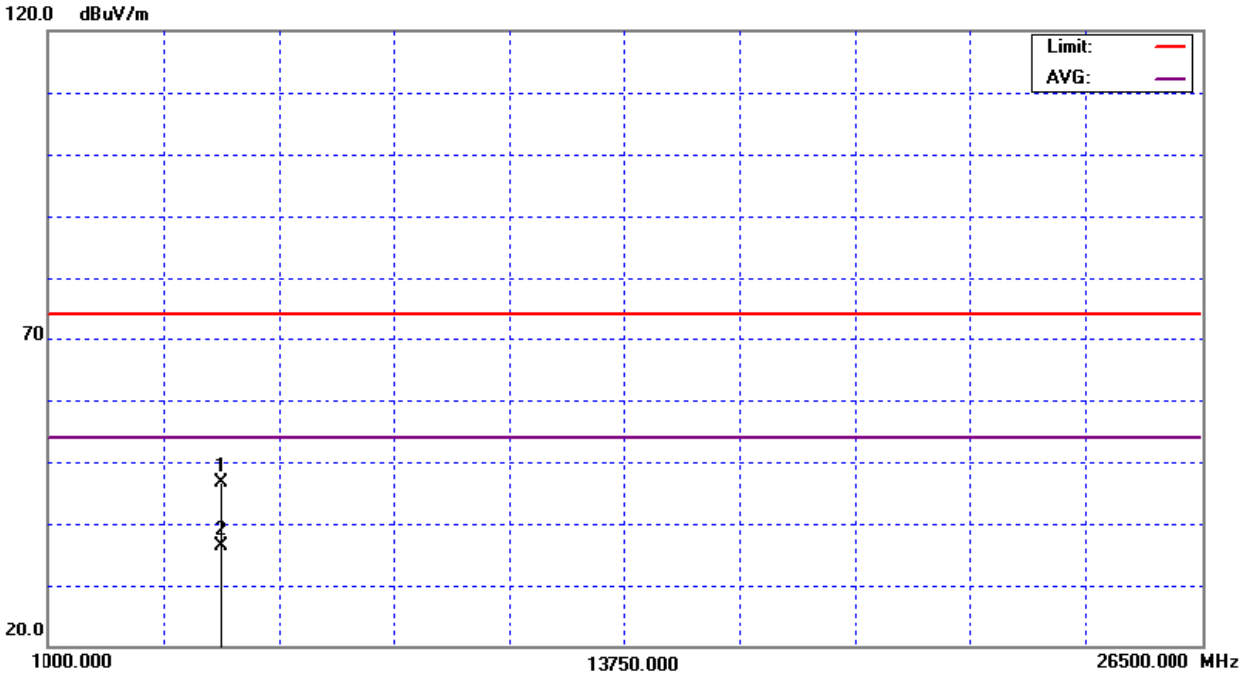
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11b/CH01(Above 1000 MHz, Horizontal)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11b/CH06	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2437.00	V	68.05	65.17	32.84	100.89	98.01			X/F
4873.86	V	42.56	31.49	4.29	46.85	35.78	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

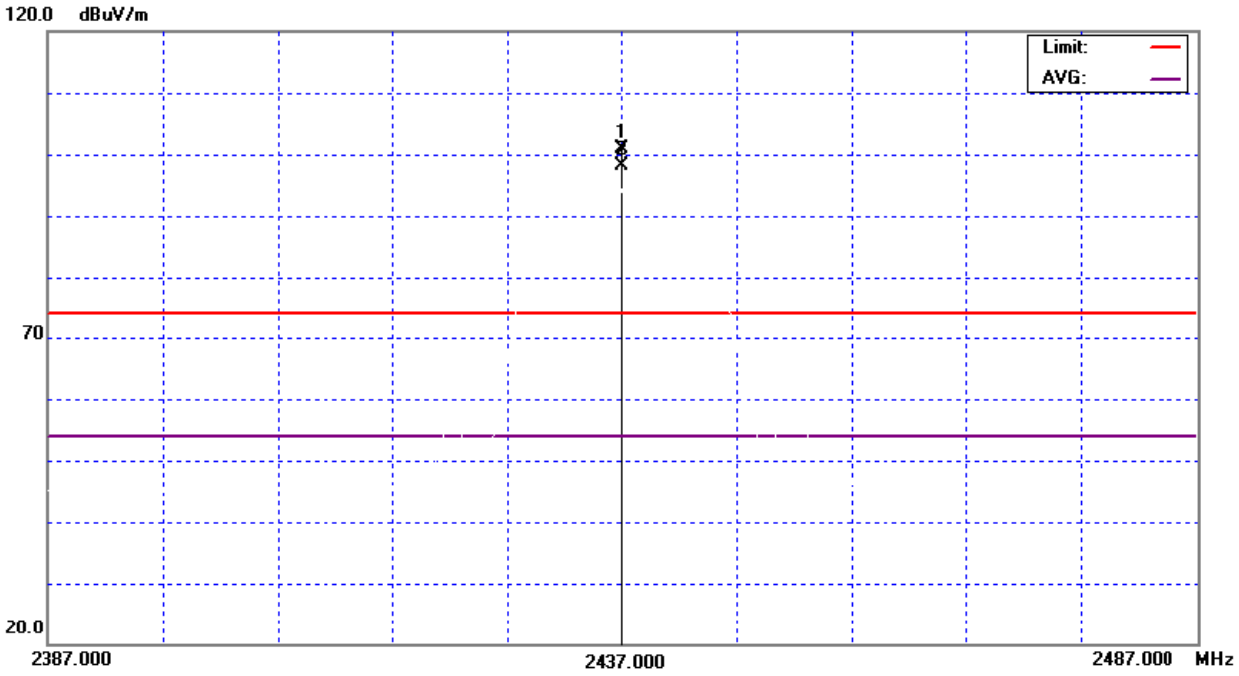
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

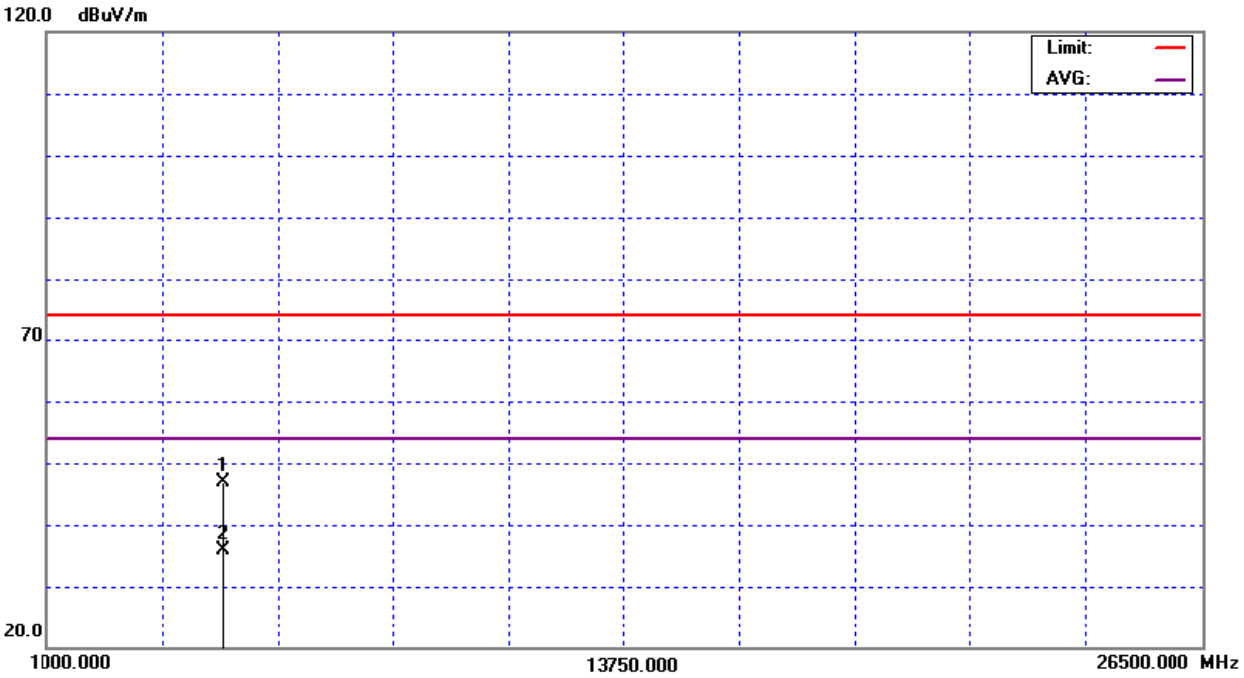
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11b/CH06(Above 1000 MHz, Vertical)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11b/CH06	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2437.00	H	70.87	67.09	32.84	103.71	99.93			X/F
4873.98	H	42.49	32.15	4.29	46.78	36.44	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

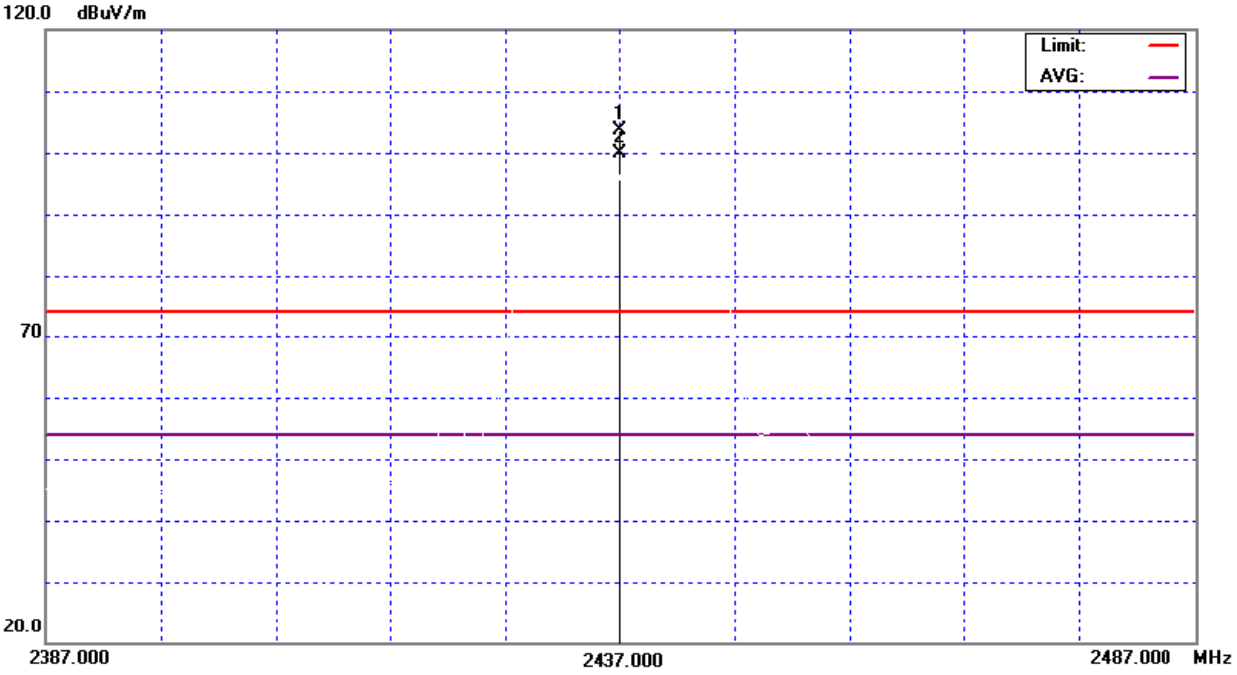
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

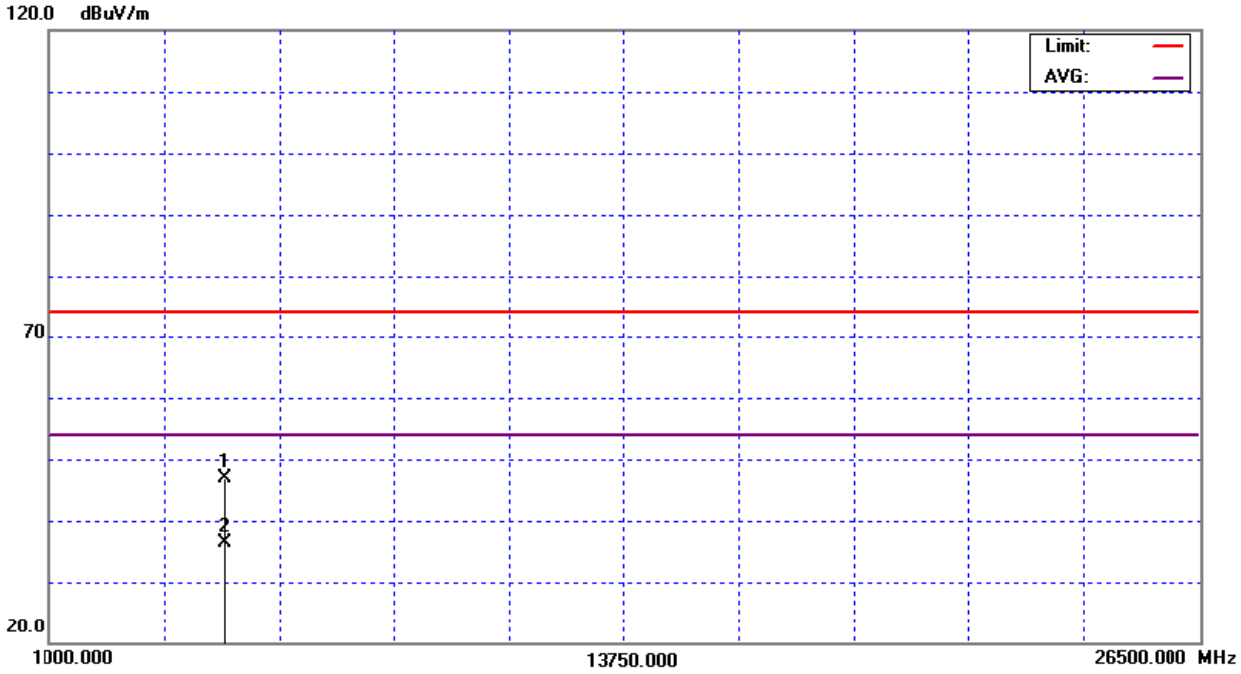
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11b/CH06(Above 1000 MHz, Horizontal)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity：	76%
Pressure：	1015 hPa	Test Voltage：	AC 120V/60Hz
Test Mode ：	802.11b/CH11	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2462.00	V	66.59	63.83	32.98	99.57	96.81			X/F
2483.50	V	21.98	13.22	33.10	55.08	46.32	74.00	54.00	X/H
4924.00	V	42.51	30.47	4.54	47.05	35.01	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

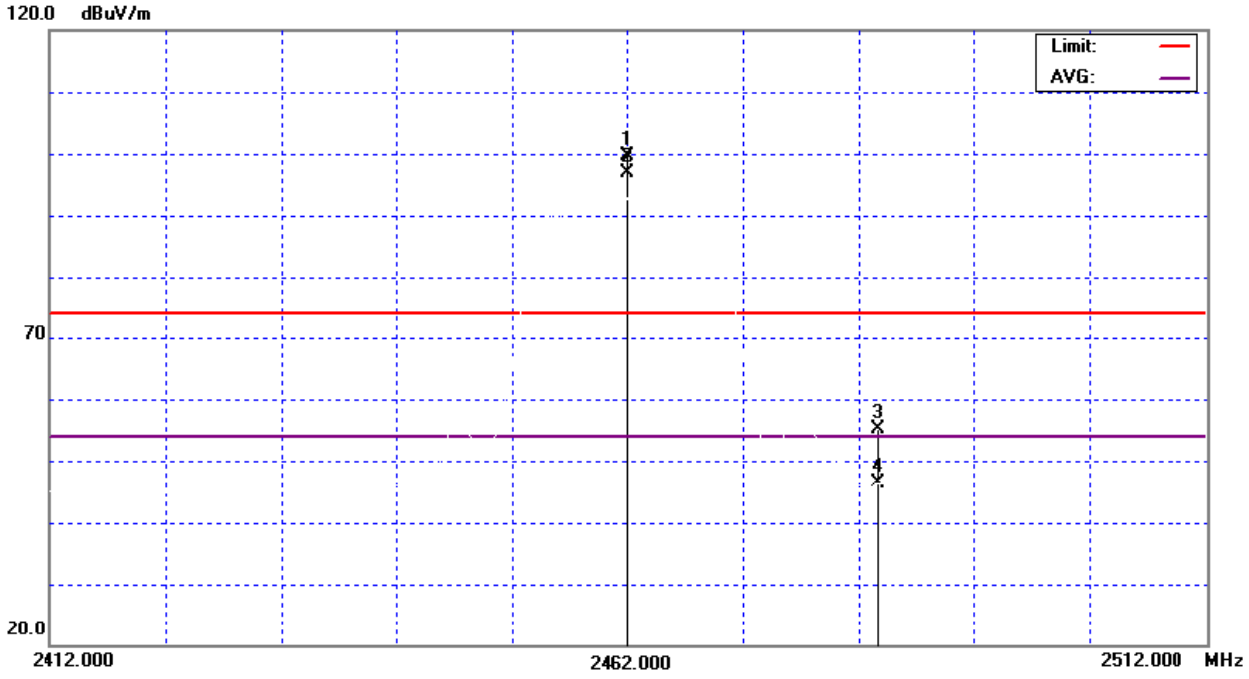
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

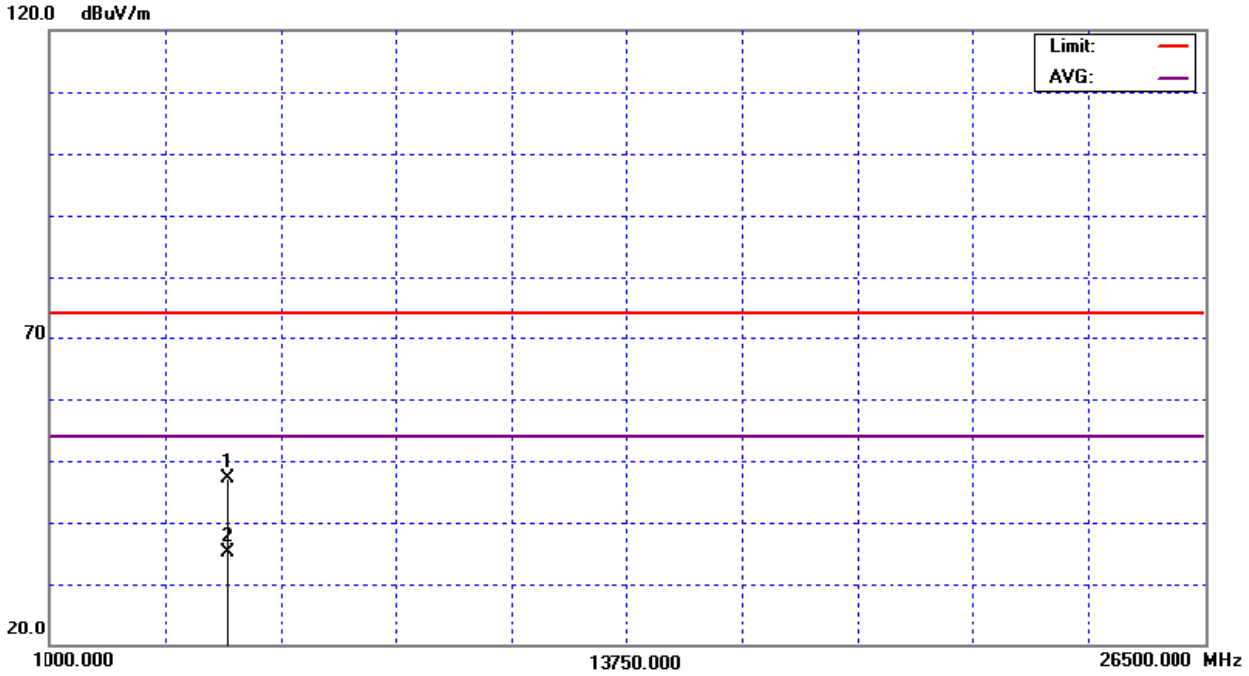
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

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





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11b/CH11	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2462.00	H	67.63	65.34	32.98	100.61	98.32			X/F
2483.50	H	21.97	13.08	33.10	55.07	46.18	74.00	54.00	X/H
4923.91	H	42.43	32.49	4.53	46.96	37.02	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

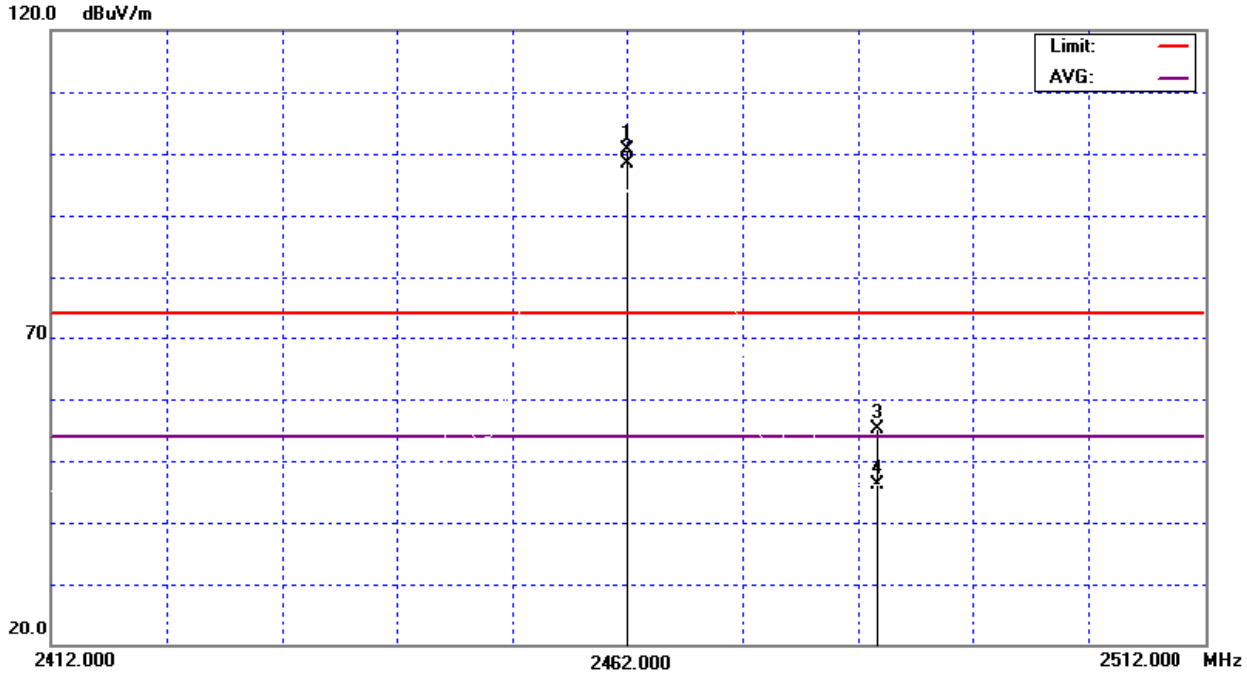
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

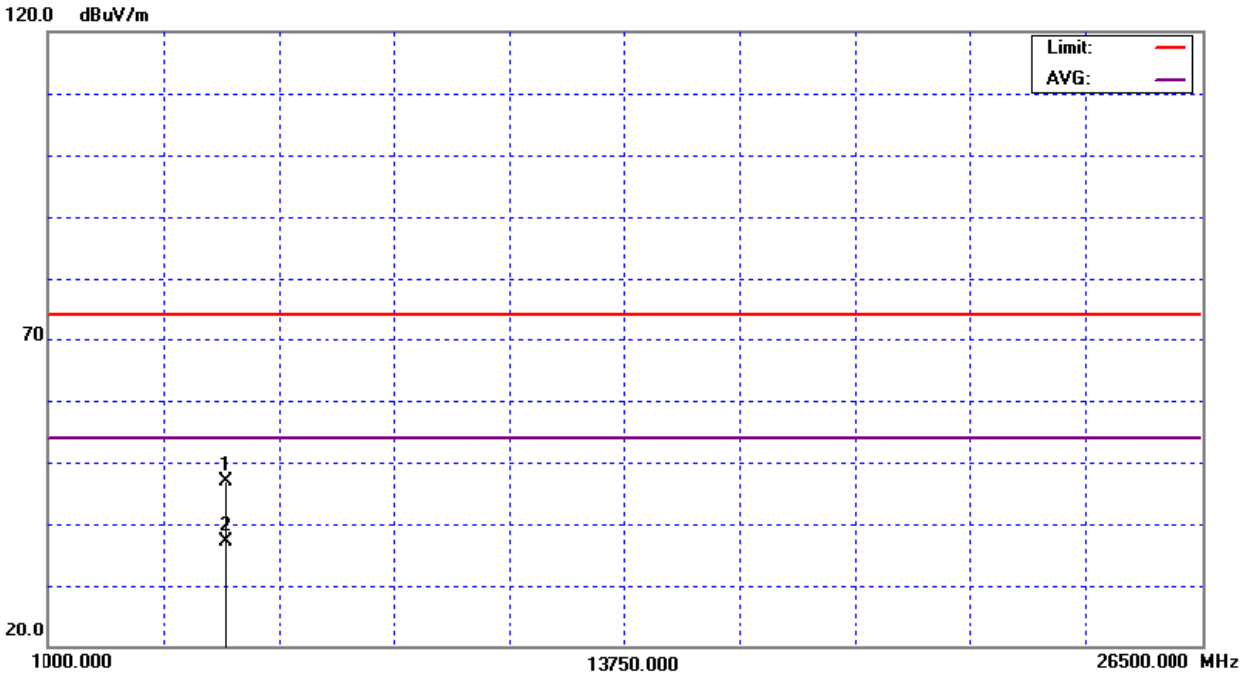
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11b/CH11(Above 1000 MHz, Horizontal)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity：	76%
Pressure：	1015 hPa	Test Voltage：	AC 120V/60Hz
Test Mode ：	802.11g/CH01	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	36.98	21.03	32.57	69.55	53.60	74.00	54.00	X/H
2412.00	V	75.69	66.82	32.70	108.39	99.52			X/F
4824.33	V	41.57	30.43	4.05	45.62	34.48	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

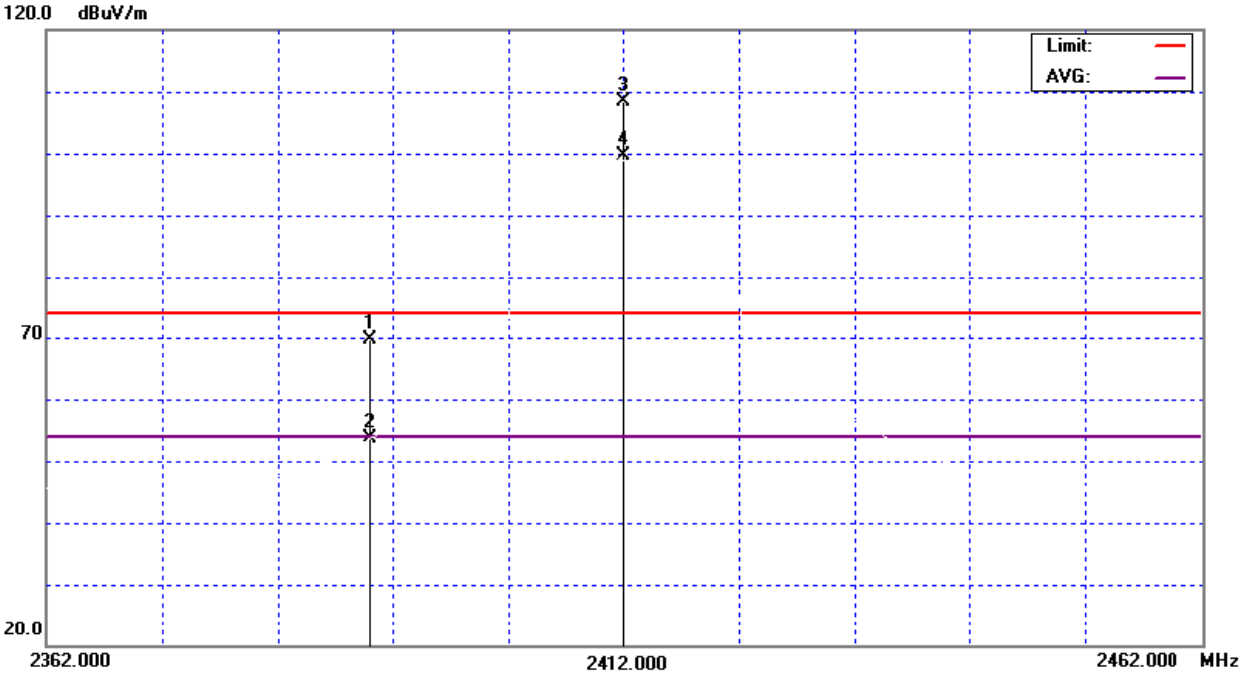
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

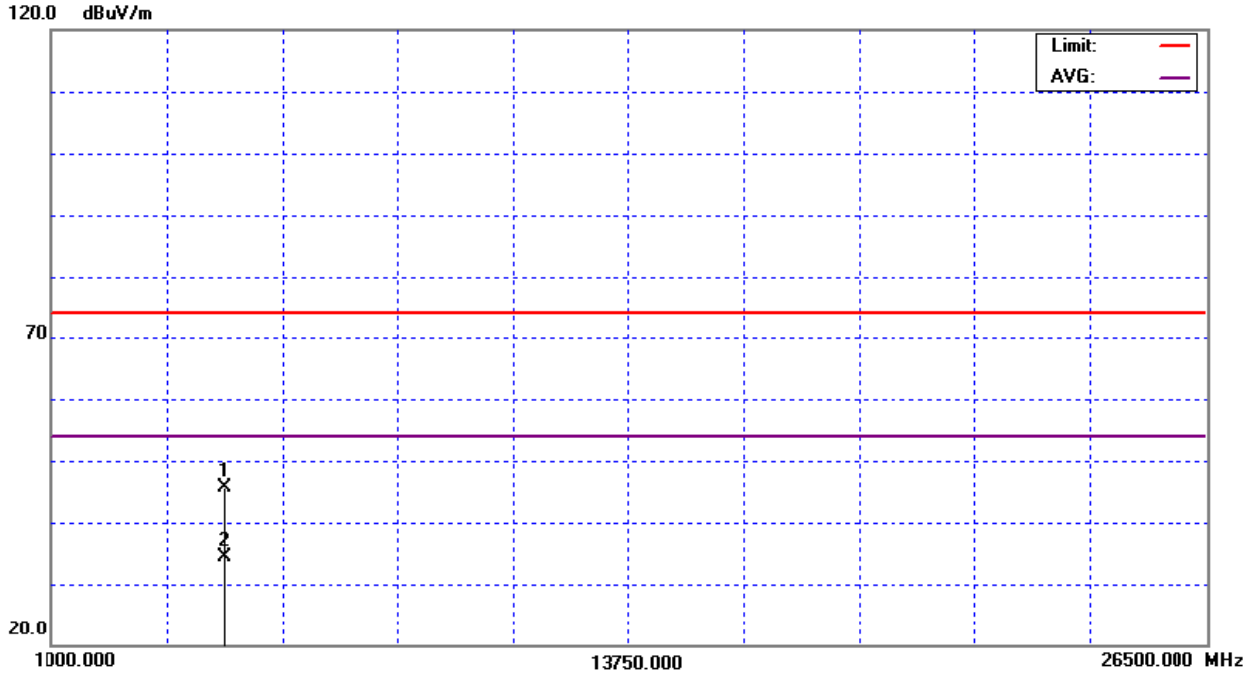
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11g/CH01(Above 1000 MHz, Vertical)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11g/CH01	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.30	H	36.68	20.99	32.57	69.25	53.56	74.00	54.00	X/H
2412.00	H	74.97	66.33	32.70	107.67	99.03			X/F
4823.20	H	41.46	30.99	4.04	45.50	35.03	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

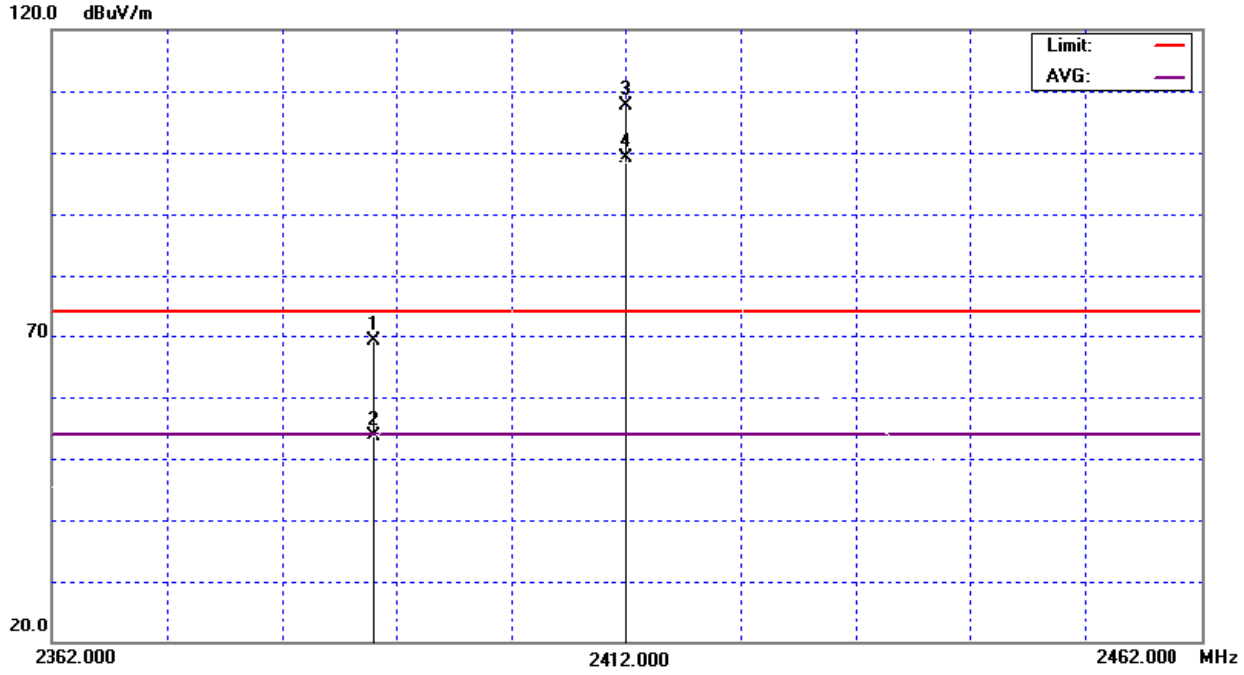
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

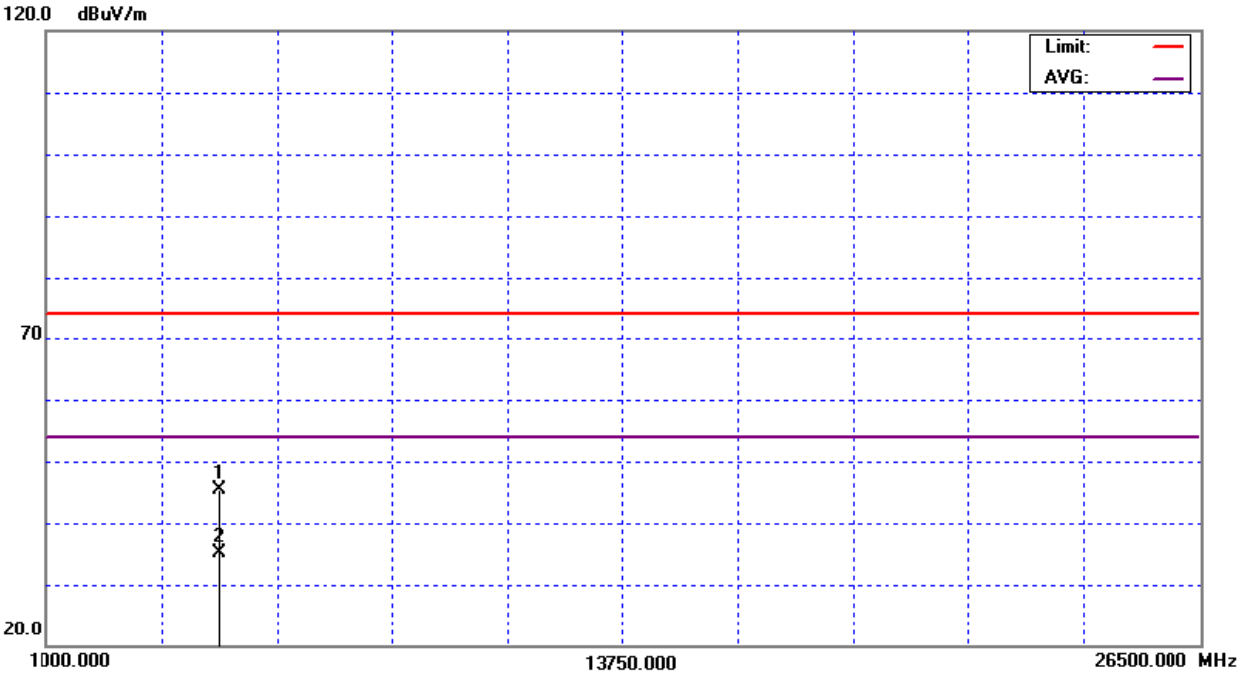
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11g/CH01(Above 1000 MHz, Horizontal)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11g/CH06	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2437.00	V	76.28	67.72	32.84	109.12	100.56			X/F
4874.13	V	43.21	32.20	4.29	47.50	36.49	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

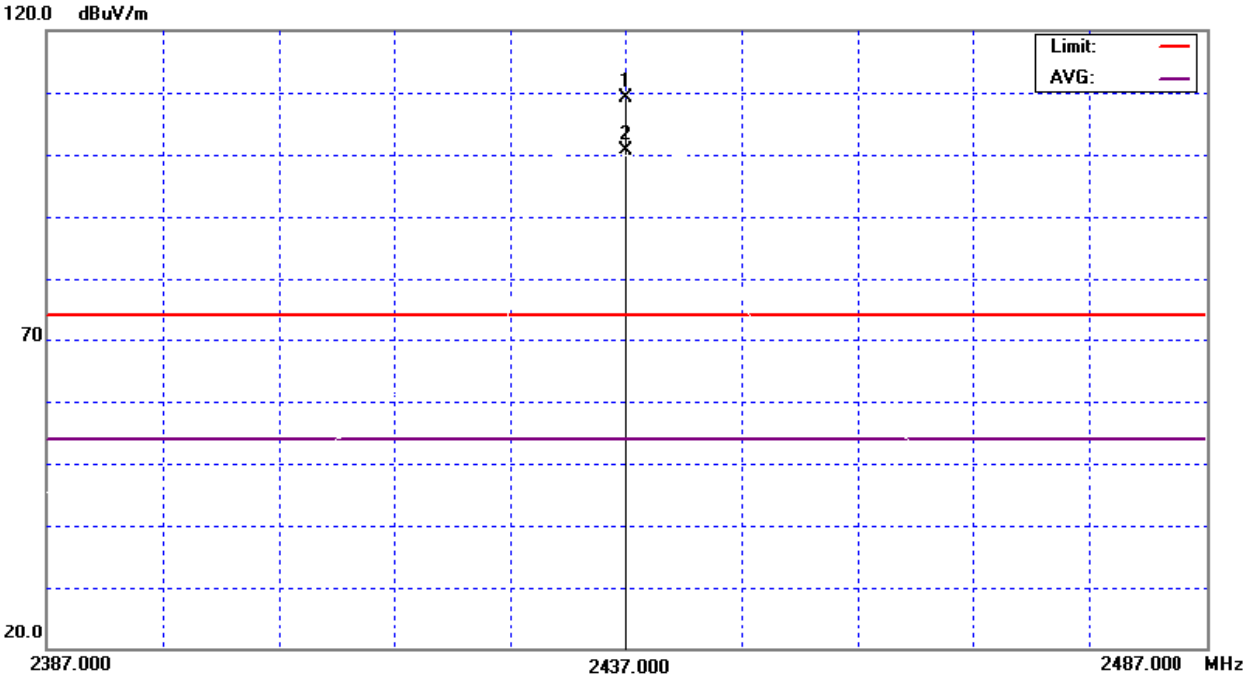
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

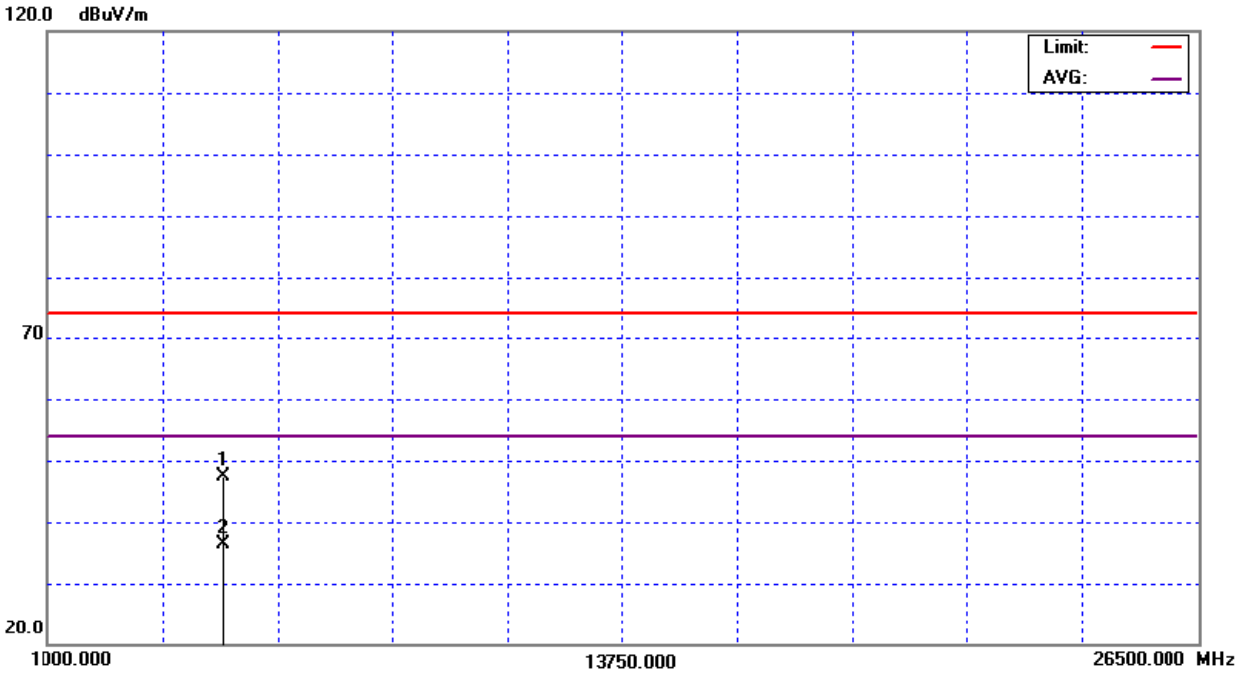
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11g/CH06(Above 1000 MHz, Vertical)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11g/CH06	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2437.00	H	77.31	68.92	32.84	110.15	101.76			X/F
4874.85	H	43.08	32.67	4.29	47.37	36.96	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

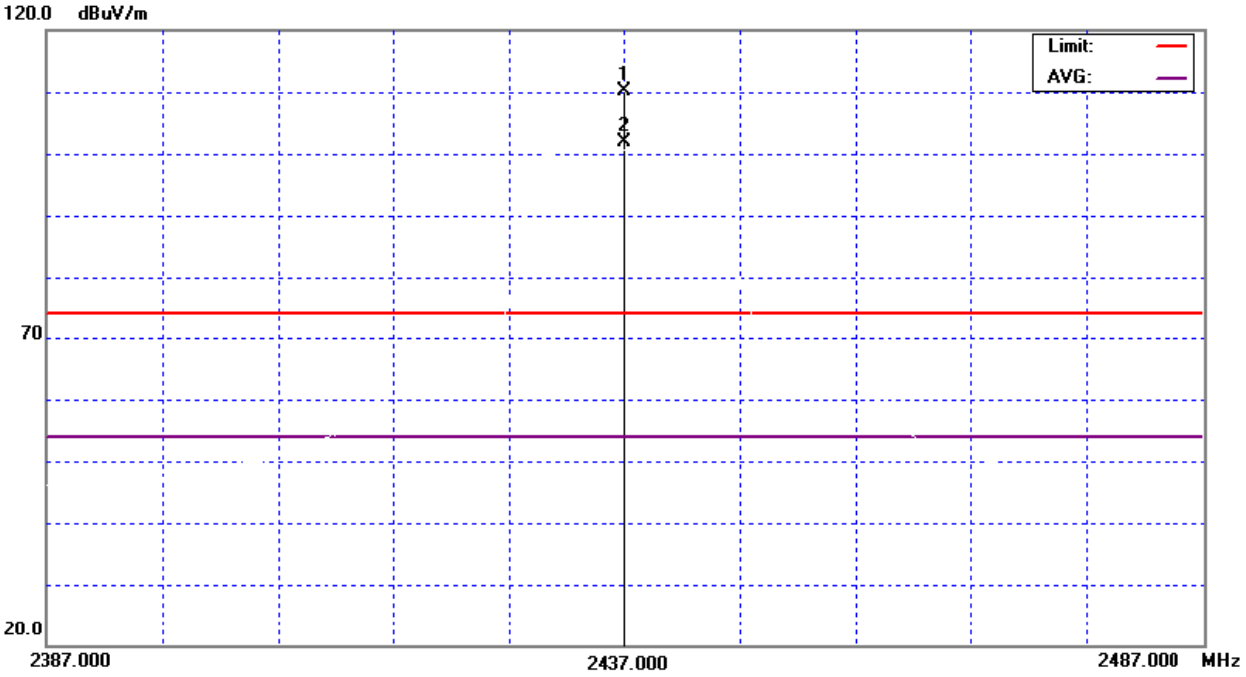
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

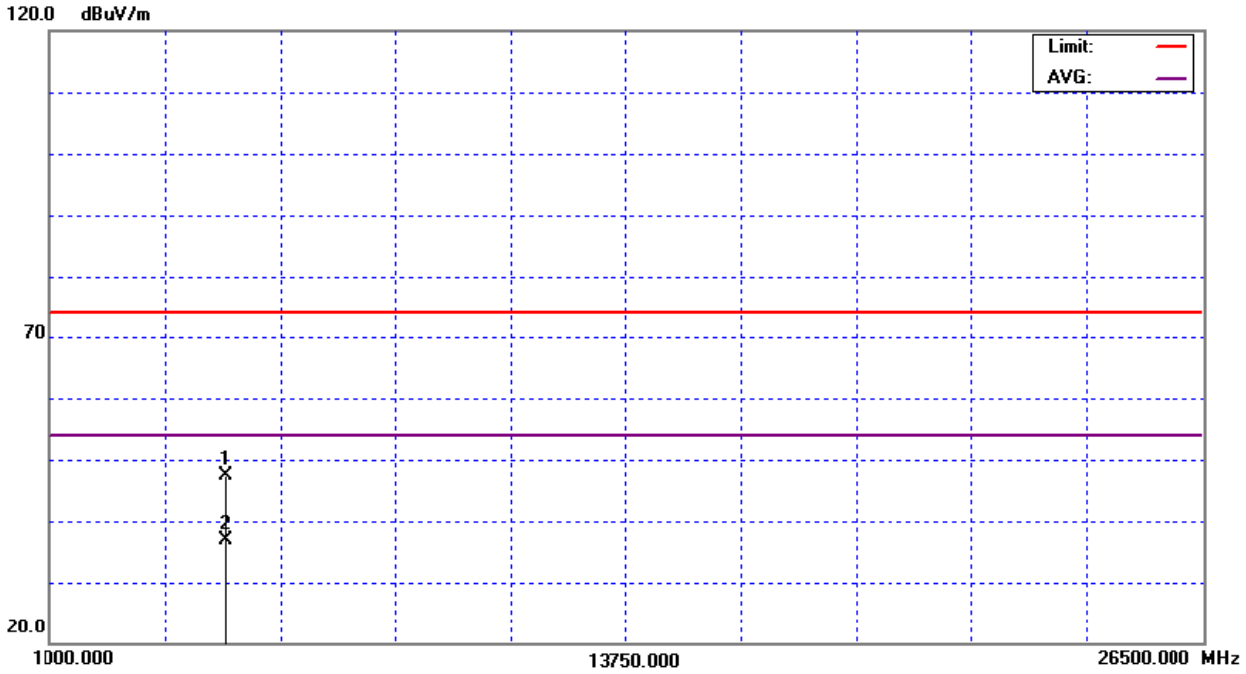
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11g/CH06(Above 1000 MHz, Horizontal)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity：	76%
Pressure：	1015 hPa	Test Voltage：	AC 120V/60Hz
Test Mode ：	802.11g/CH11	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2462.00	V	72.26	64.36	32.98	105.24	97.34			X/F
2483.50	V	34.41	20.14	33.10	67.51	53.24	74.00	54.00	X/H
4923.72	V	41.85	30.53	4.53	46.38	35.06	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

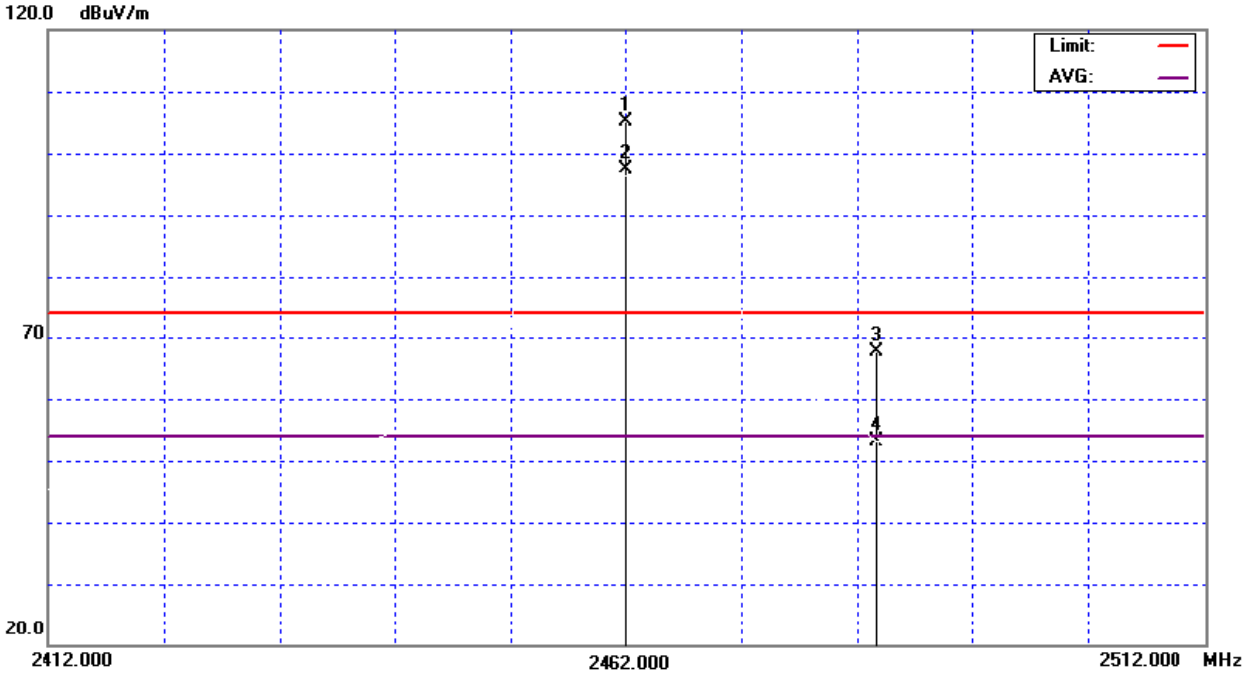
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

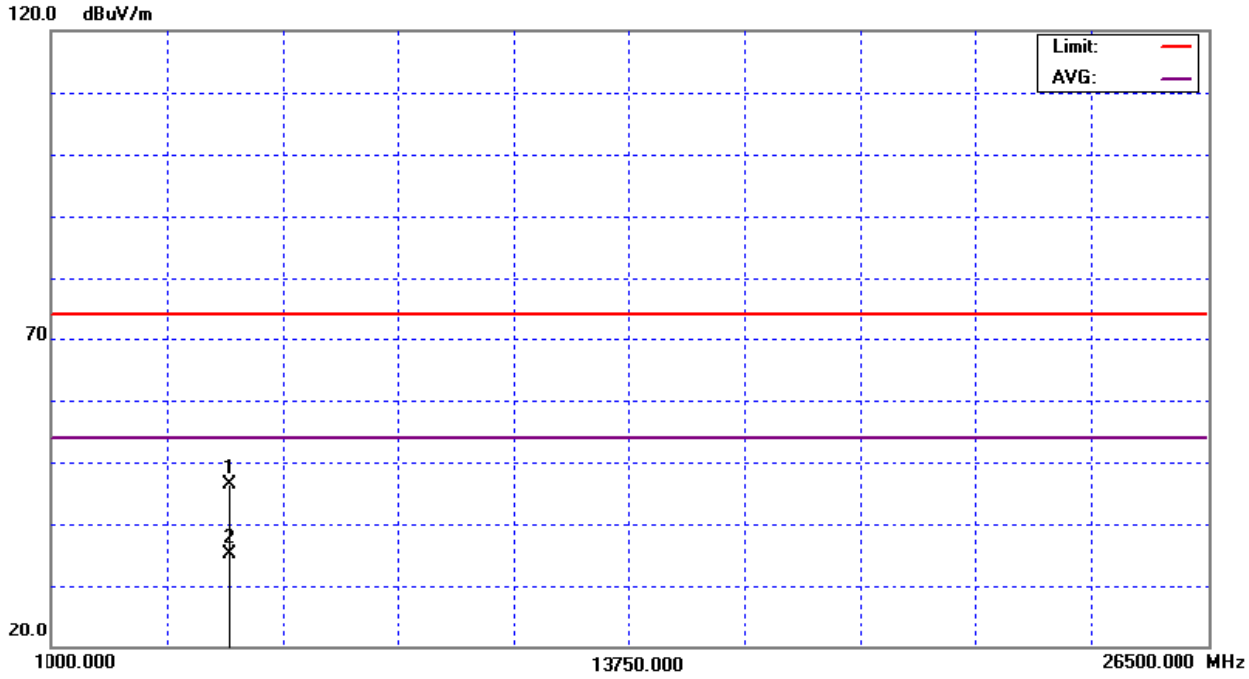
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

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





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11g/CH11	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2462.00	H	71.98	63.71	32.98	104.96	96.69			X/F
2483.50	H	33.50	19.90	33.10	66.60	53.00	74.00	54.00	X/H
4922.93	H	41.87	31.29	4.53	46.40	35.82	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

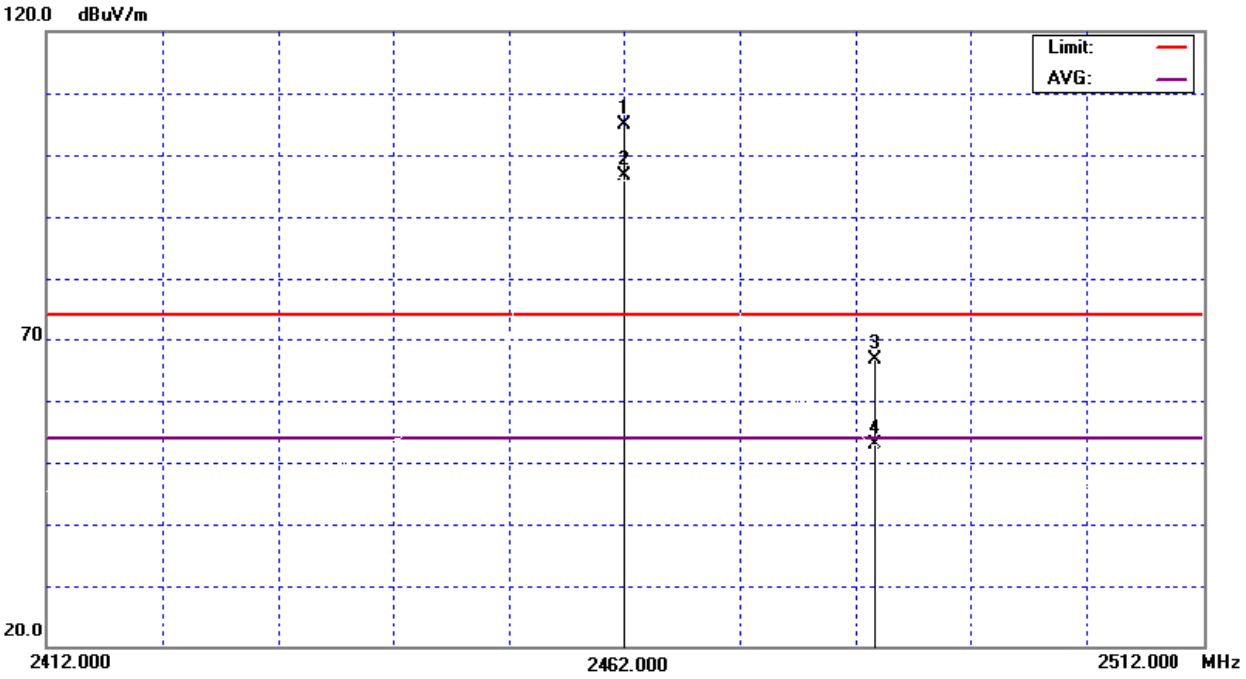
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

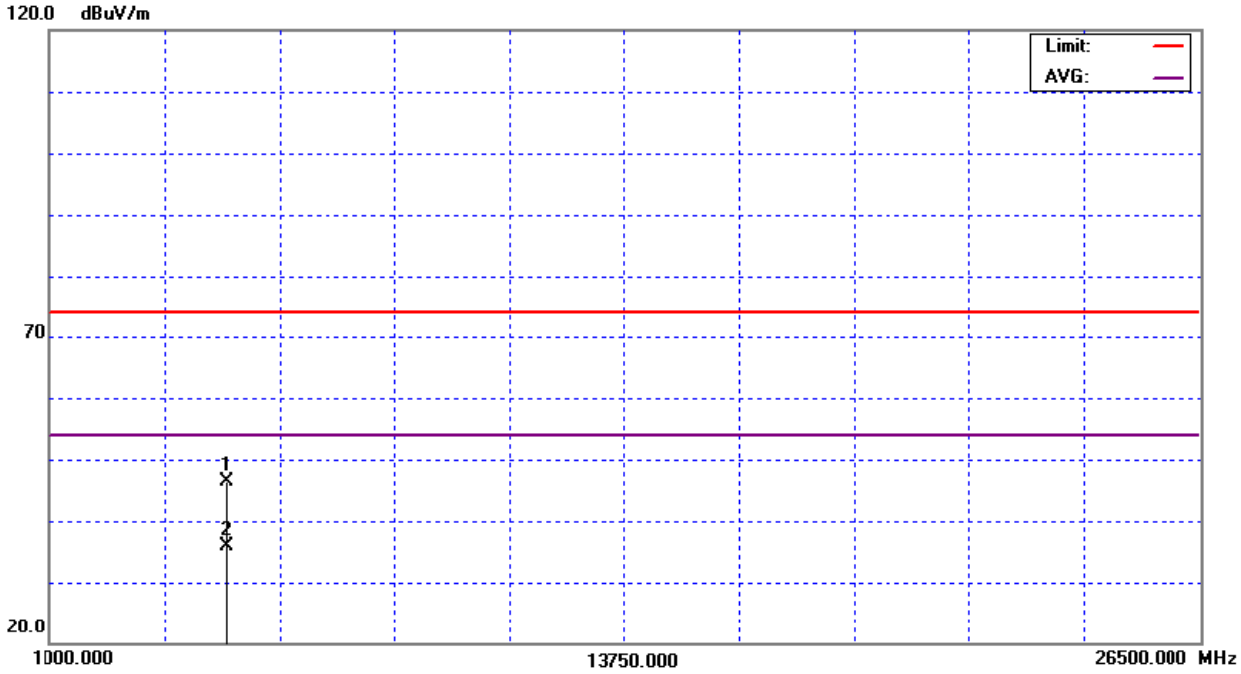
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

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





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity：	76%
Pressure：	1015 hPa	Test Voltage：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH01	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	36.01	18.57	32.57	68.58	51.14	74.00	54.00	X/H
2412.00	V	73.92	65.50	32.70	106.62	98.20			X/F
4824.29	V	41.51	30.48	4.05	45.56	34.53	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

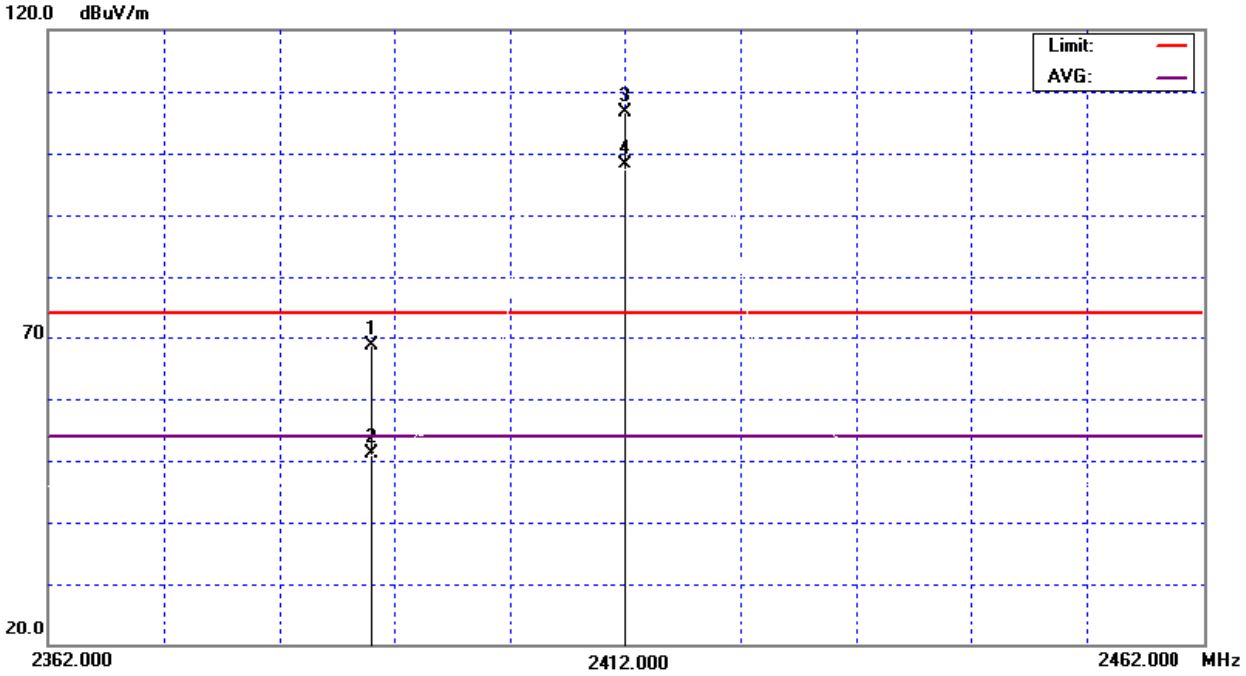
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

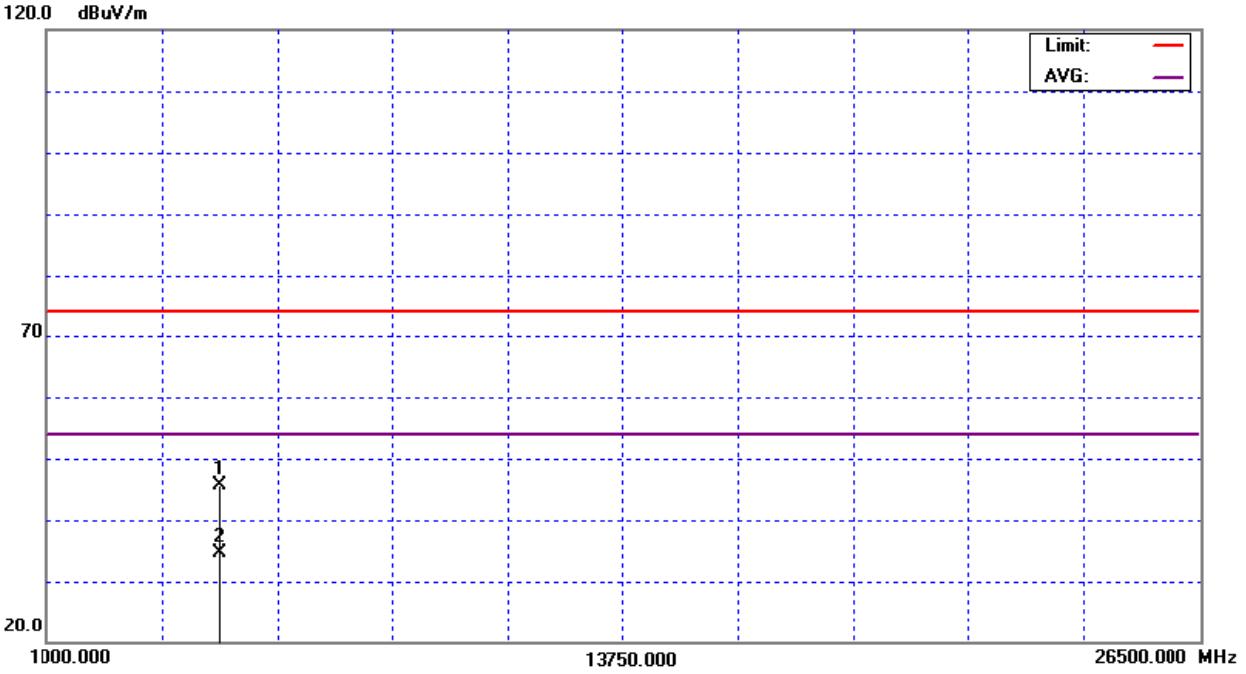
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11n/20M/CH01(Above 1000 MHz, Vertical)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH01	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	36.98	19.31	32.57	69.55	51.88	74.00	54.00	X/H
2412.00	H	75.27	66.15	32.70	107.97	98.85			X/F
4824.09	H	41.64	31.20	4.05	45.69	35.25	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

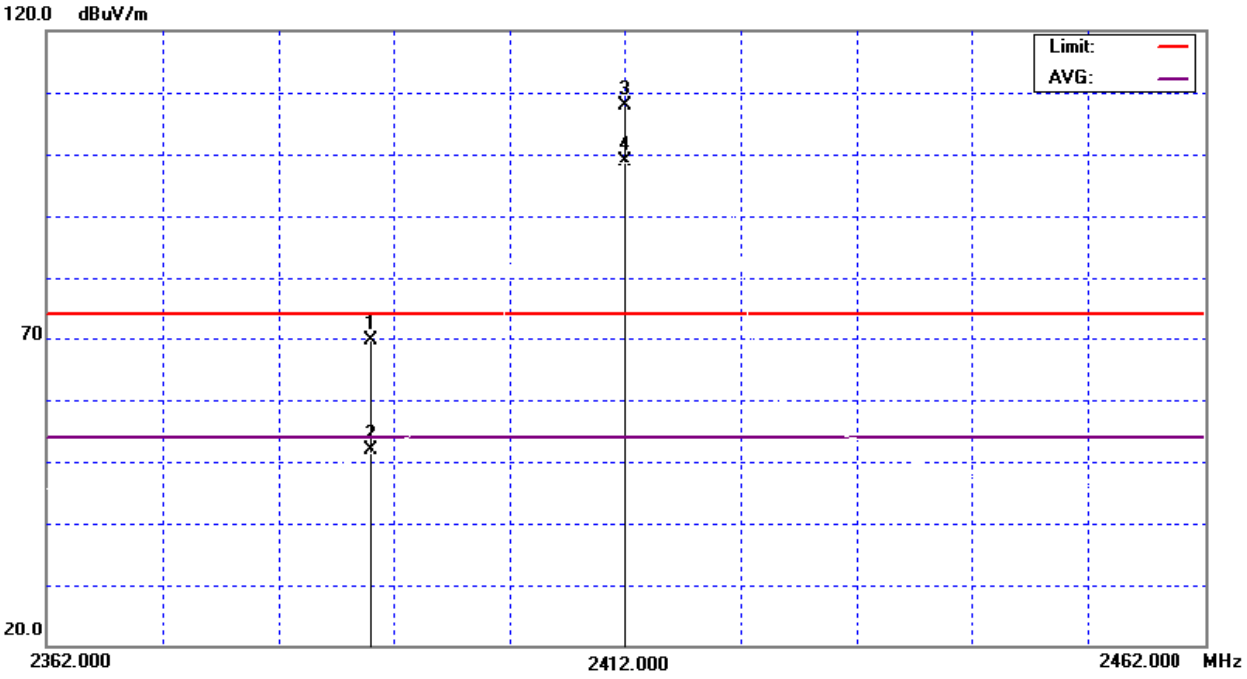
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

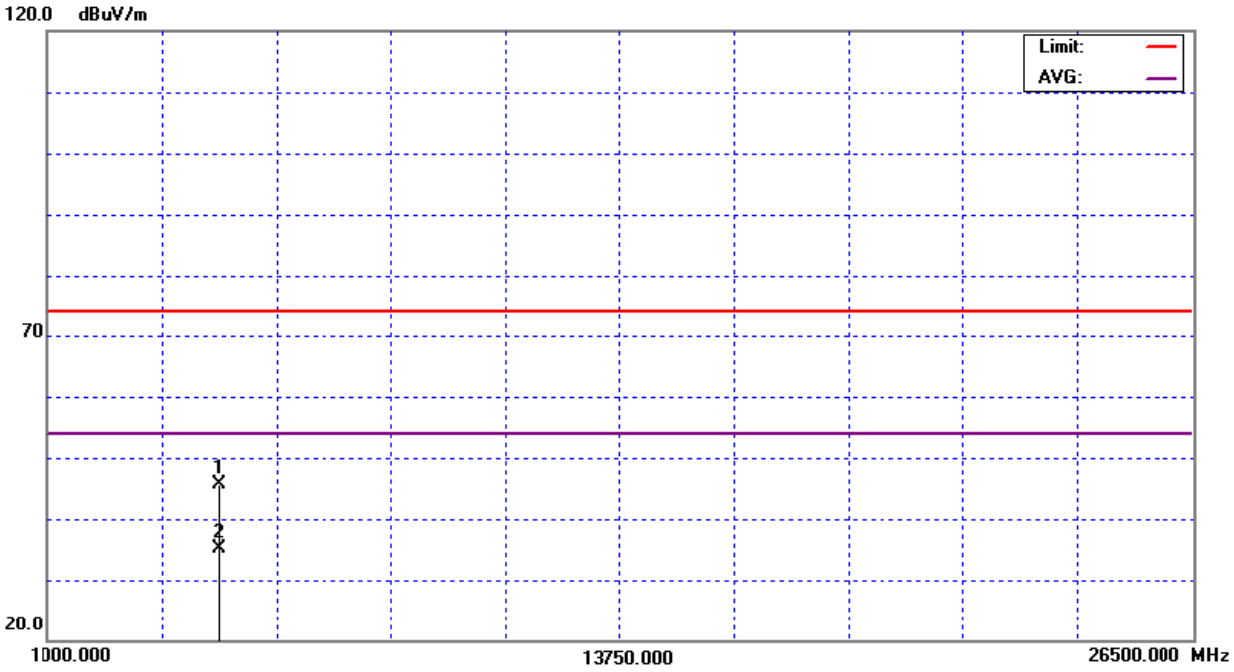
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11n/20M/CH01(Above 1000 MHz, Horizontal)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH06	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2437.00	V	69.44	61.69	32.84	102.28	94.53			X/F
4872.61	V	42.32	31.39	4.28	46.60	35.67	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

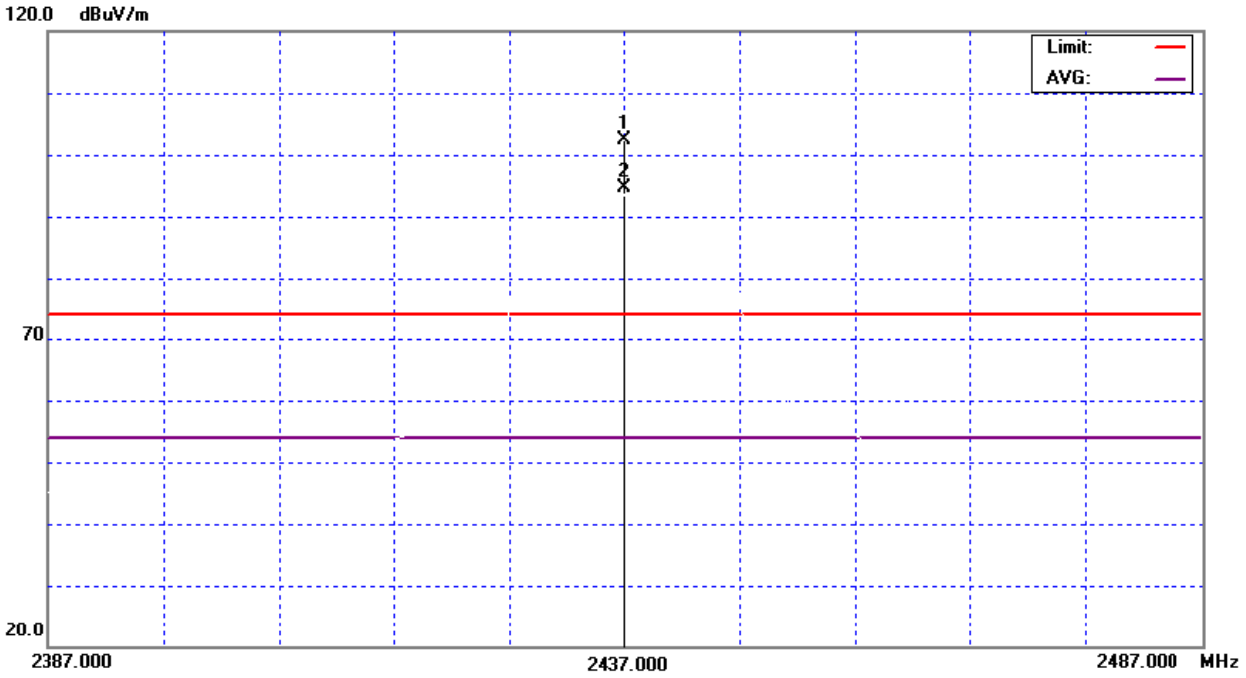
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

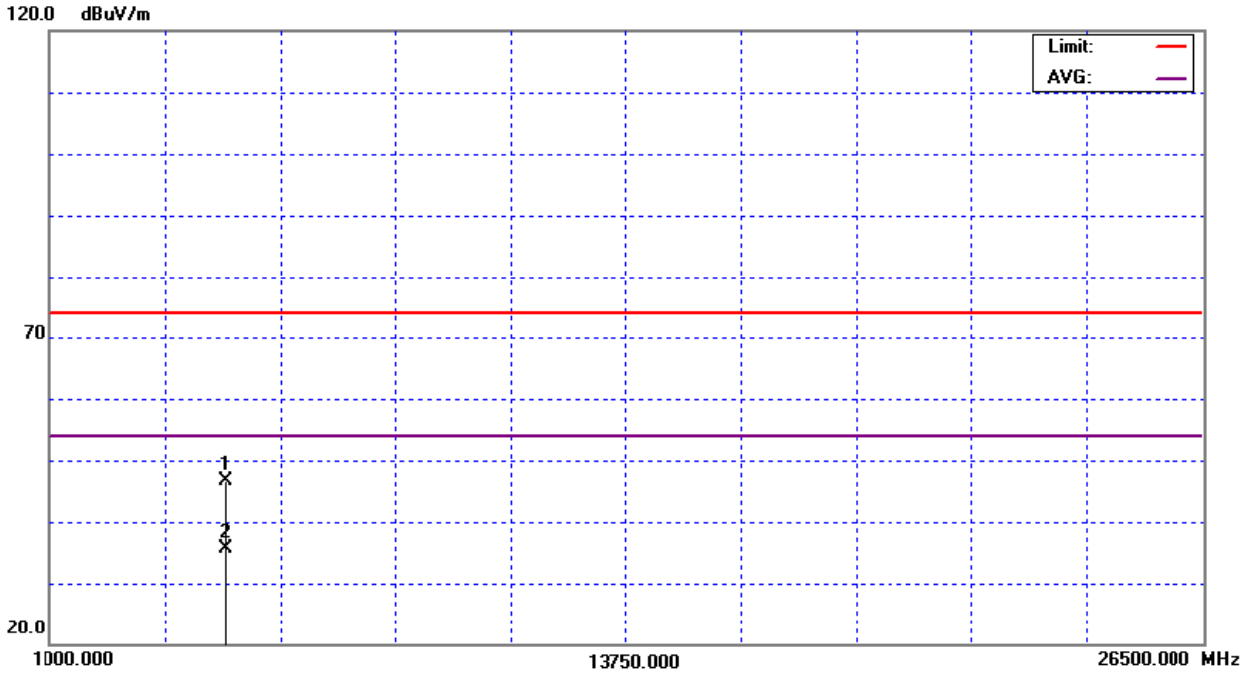
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11n/20M/CH06(Above 1000 MHz, Vertical)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH06	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2437.00	H	71.07	63.04	32.84	103.91	95.88			X/F
4873.88	H	42.48	32.17	4.29	46.77	36.46	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

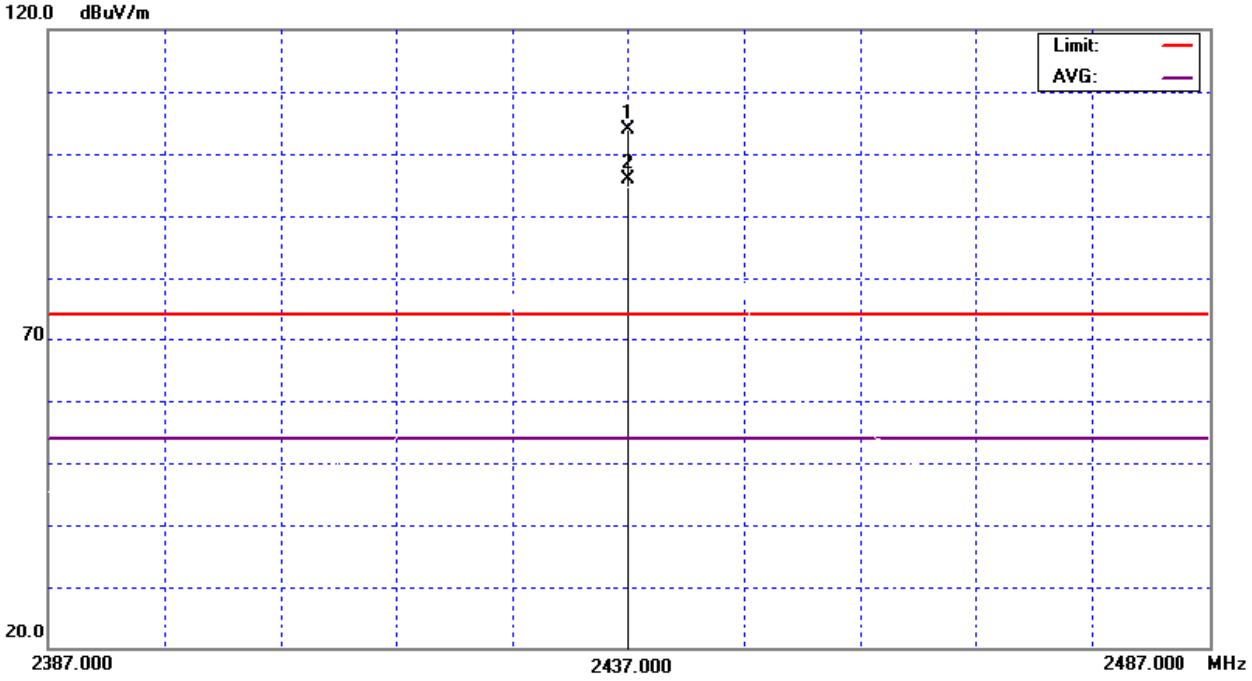
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

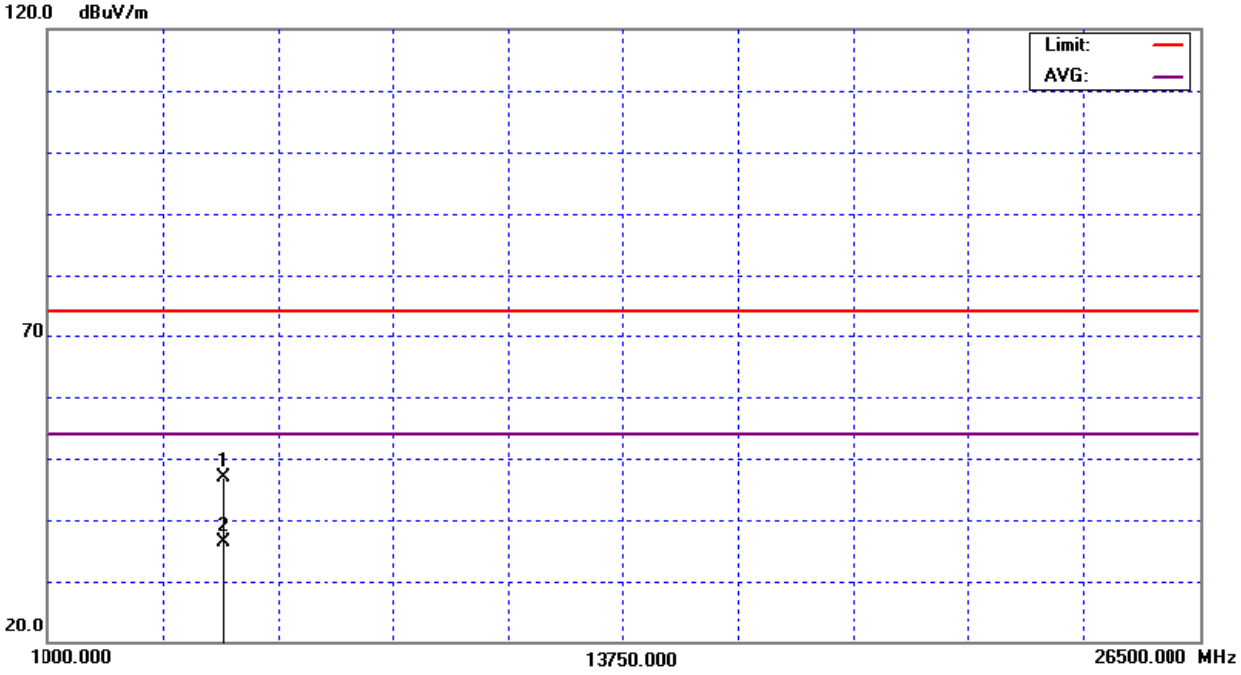
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11n/20M/CH06(Above 1000 MHz, Horizontal)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity：	76%
Pressure：	1015 hPa	Test Voltage：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH11	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2462.00	V	72.93	63.91	32.98	105.91	96.89			X/F
2483.50	V	38.76	20.13	33.10	71.86	53.23	74.00	54.00	X/H
4923.78	V	41.44	30.63	4.53	45.97	35.16	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

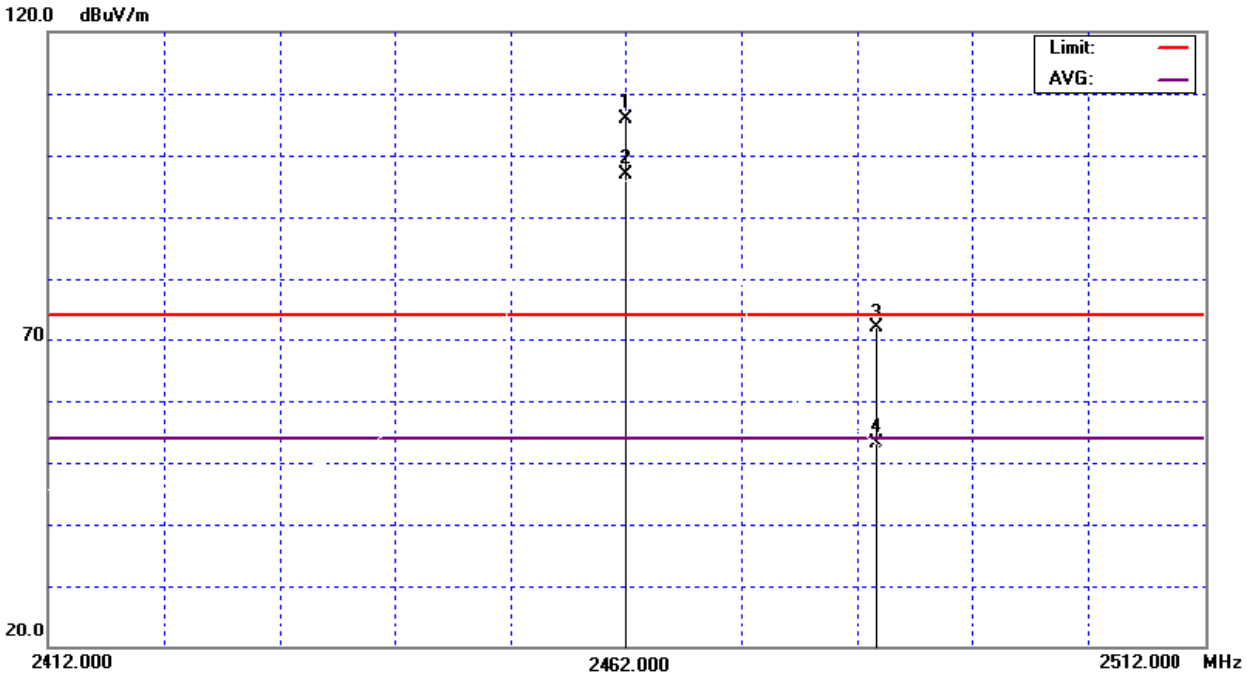
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

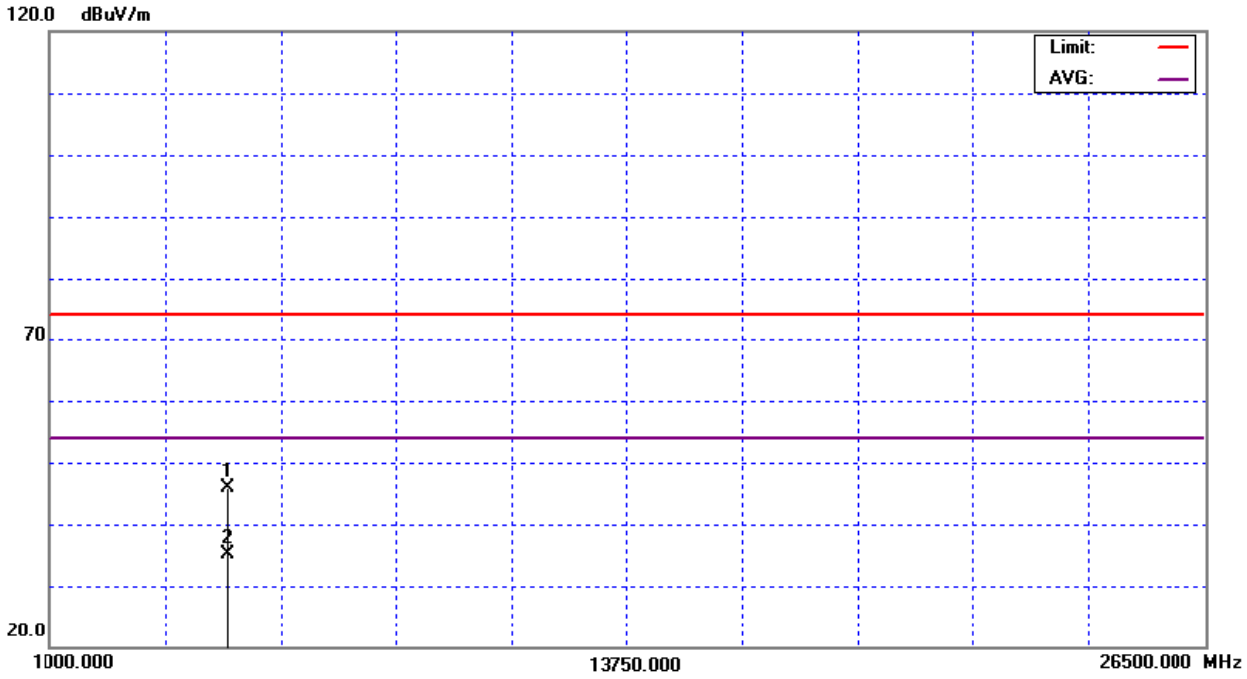
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11n/20M/CH11(Above 1000 MHz, Vertical)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH11	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2462.00	H	74.31	65.60	32.98	107.29	98.58			X/F
2483.50	H	36.99	20.50	33.10	70.09	53.60	74.00	54.00	X/H
4924.51	H	41.32	31.03	4.54	45.86	35.57	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

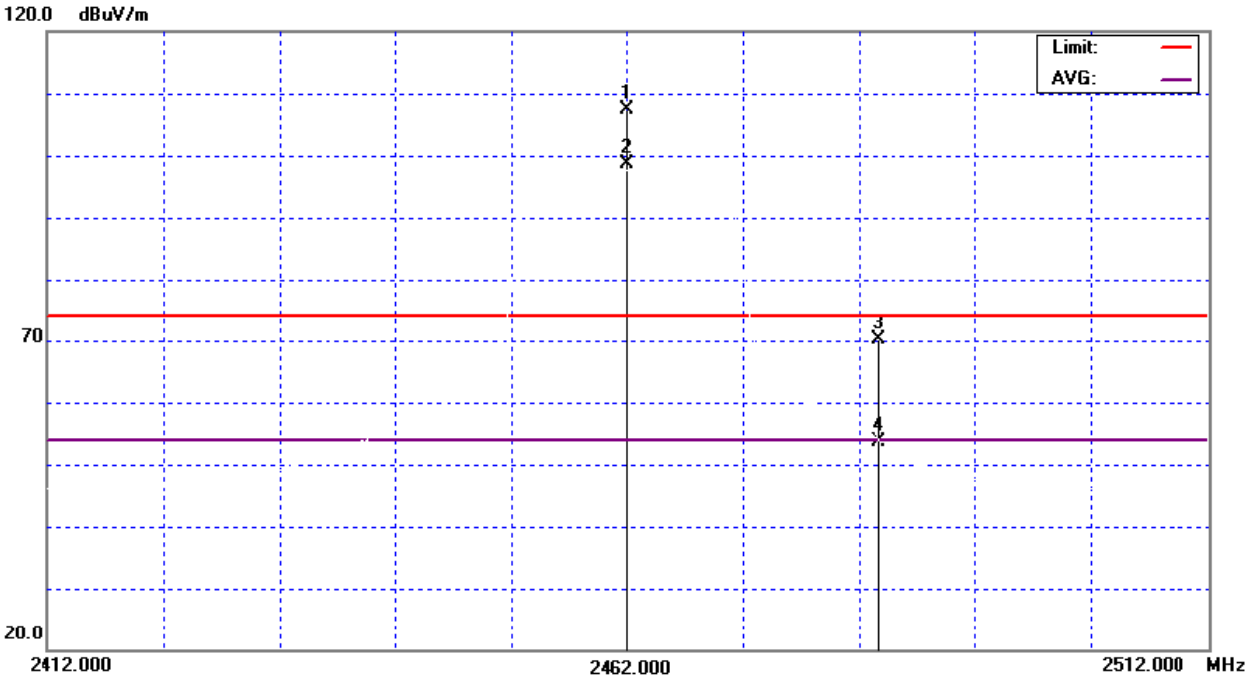
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

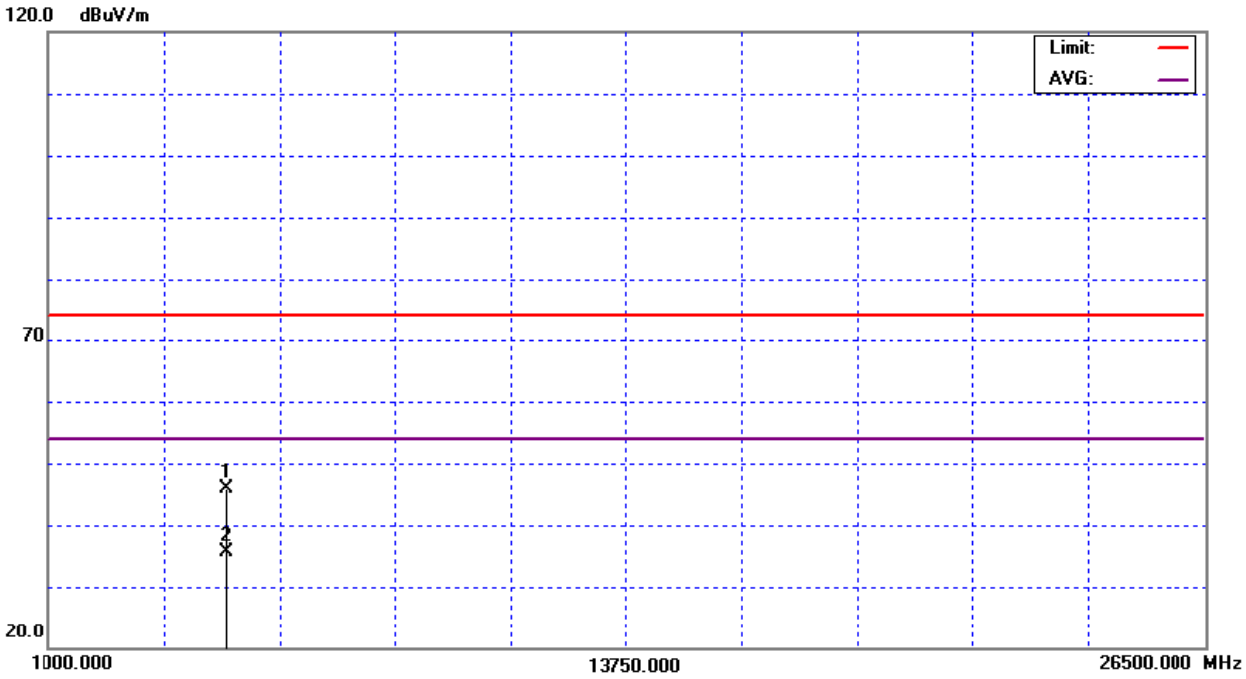
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11n/20M/CH11(Above 1000 MHz, Horizontal)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity：	76%
Pressure：	1015 hPa	Test Voltage：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH03	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	31.88	17.81	32.57	64.45	50.38	74.00	54.00	X/H
2422.00	V	65.53	57.34	32.75	98.28	90.09			X/F
4844.52	V	41.95	31.18	4.15	46.10	35.33	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

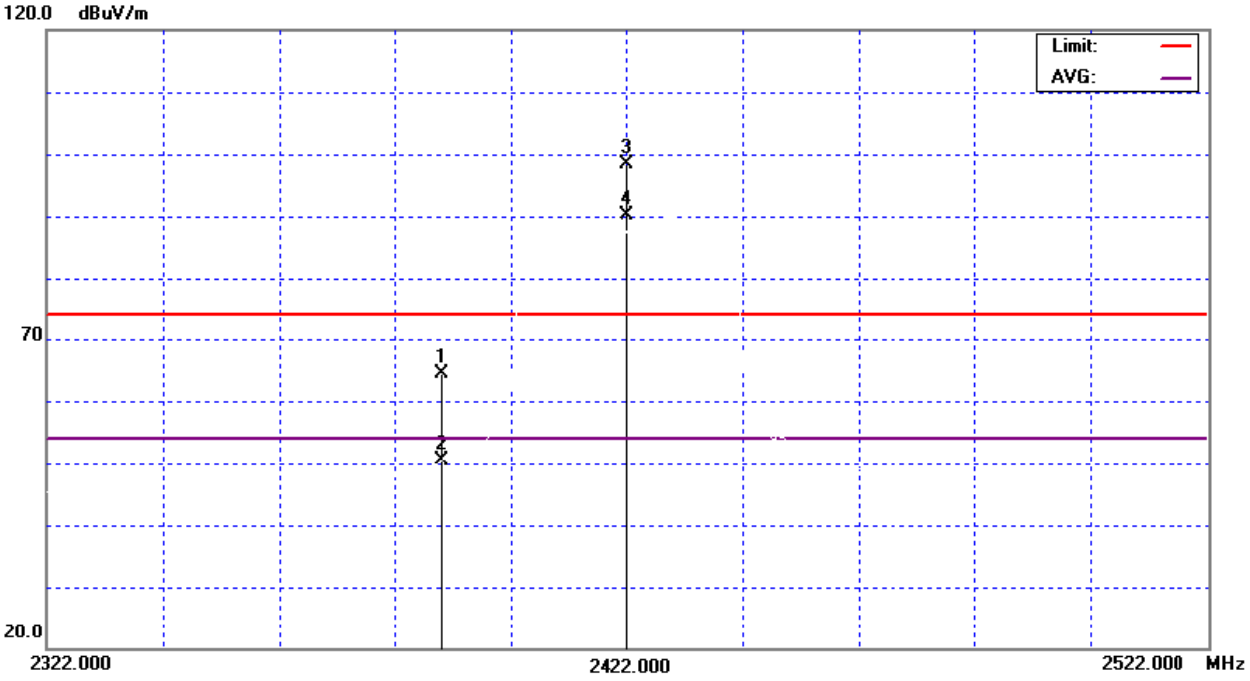
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

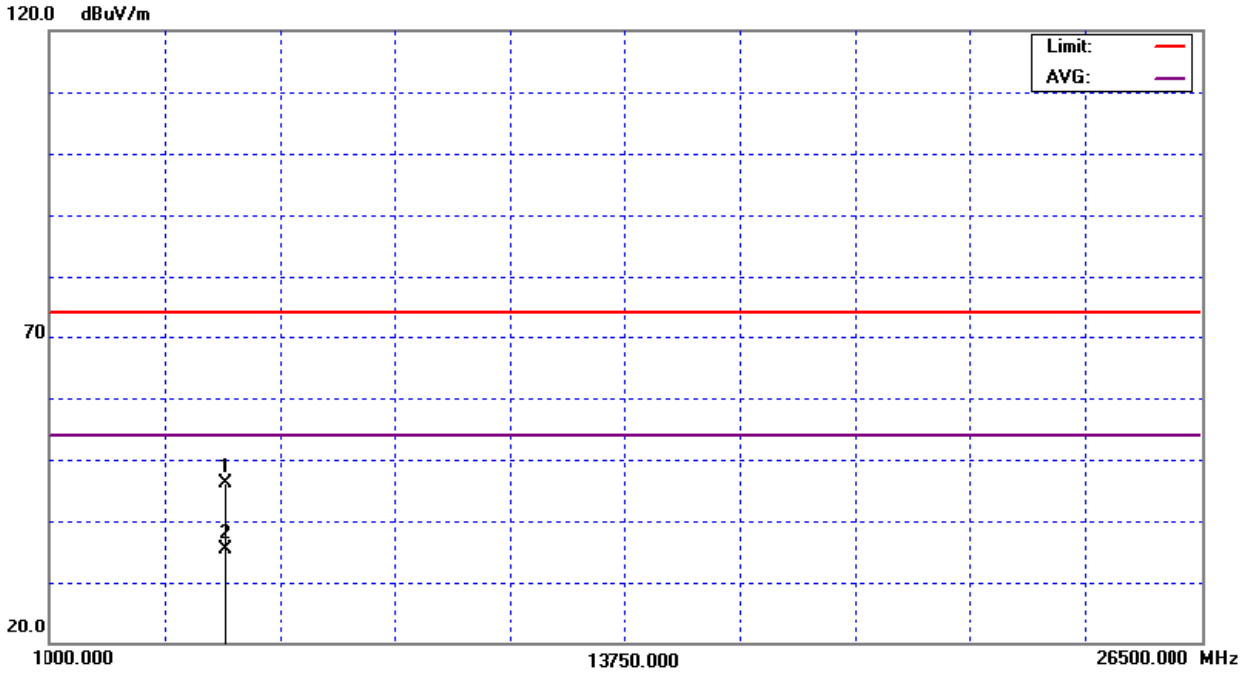
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11n/40M/CH03(Above 1000 MHz, Vertical)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH03	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	35.06	19.25	32.57	67.63	51.82	74.00	54.00	X/H
2422.00	H	67.09	58.93	32.75	99.84	91.68			X/F
4844.17	H	41.85	31.69	4.14	45.99	35.83	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

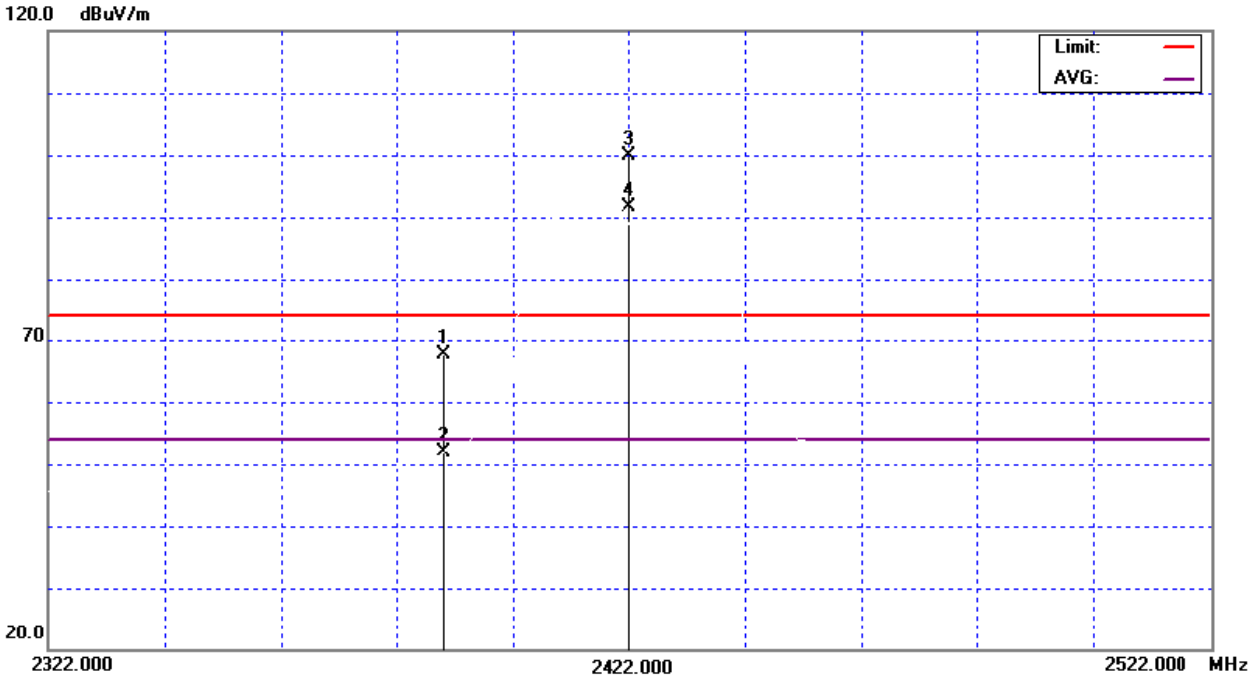
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

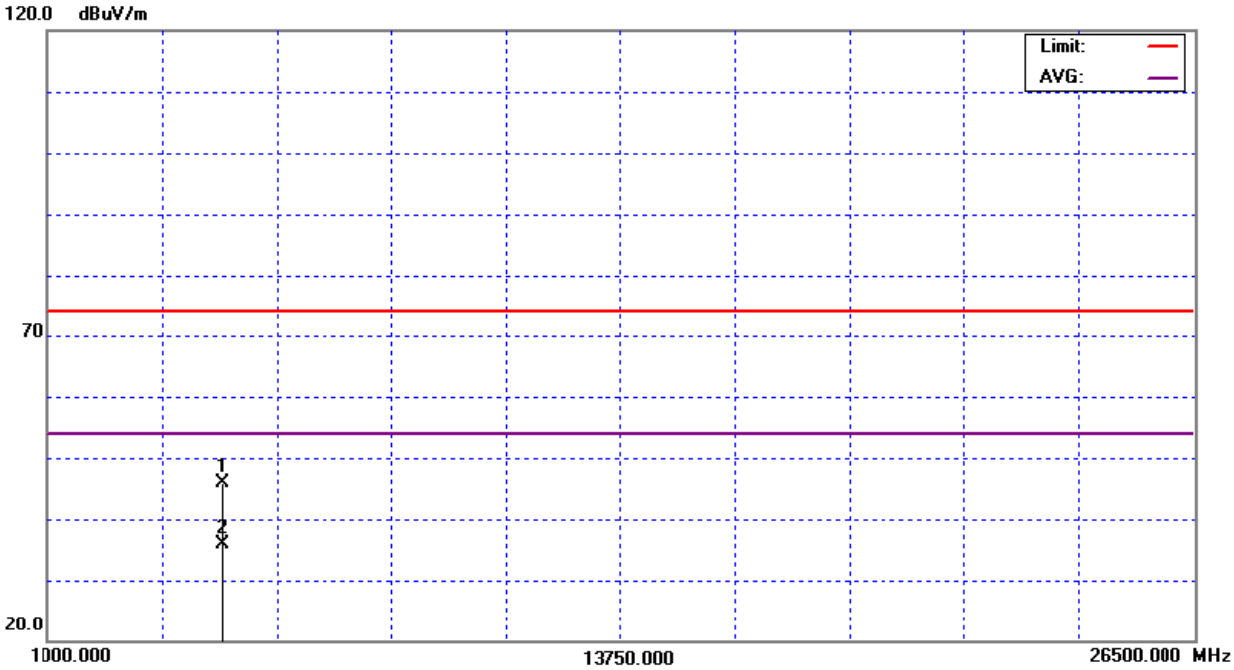
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11n/40M/CH03(Above 1000 MHz, Horizontal)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH06	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2437.00	V	66.24	57.88	32.84	99.08	90.72			X/F
4874.14	V	42.46	31.58	4.29	46.75	35.87	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

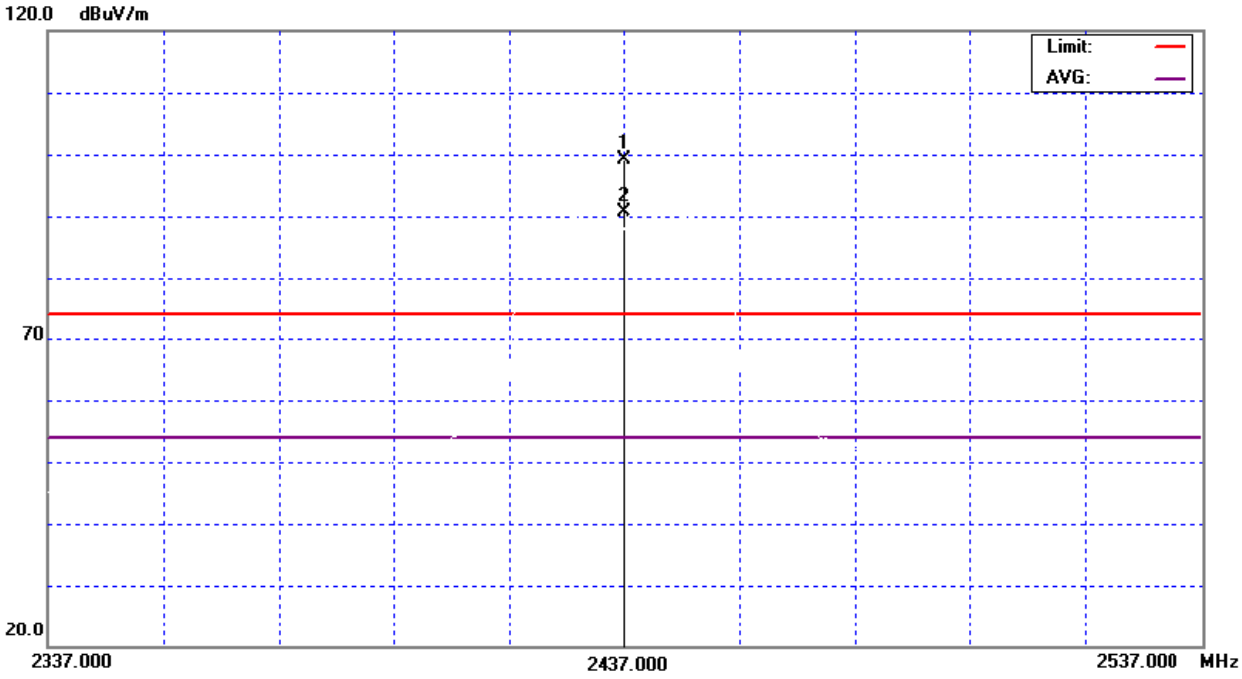
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

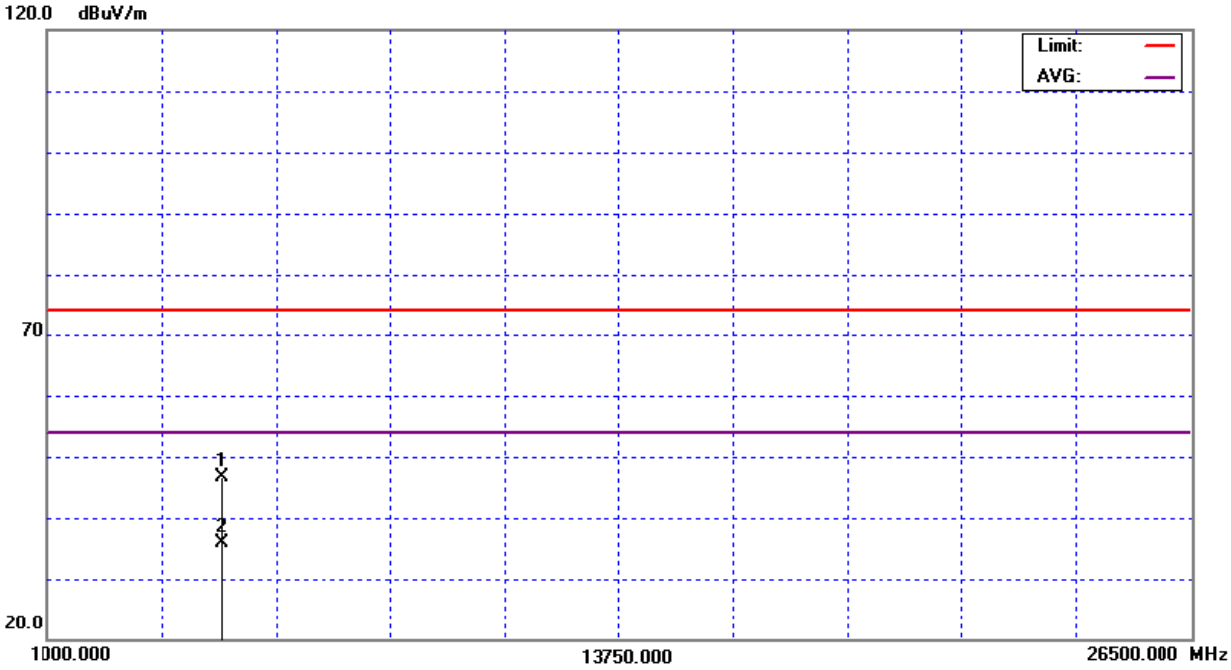
(7) EUT Orthogonal Axes：

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

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11n/40M/CH06(Above 1000 MHz, Vertical)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH06	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2437.00	H	67.91	59.63	32.84	100.75	92.47			X/F
4873.53	H	42.28	31.92	4.29	46.57	36.21	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

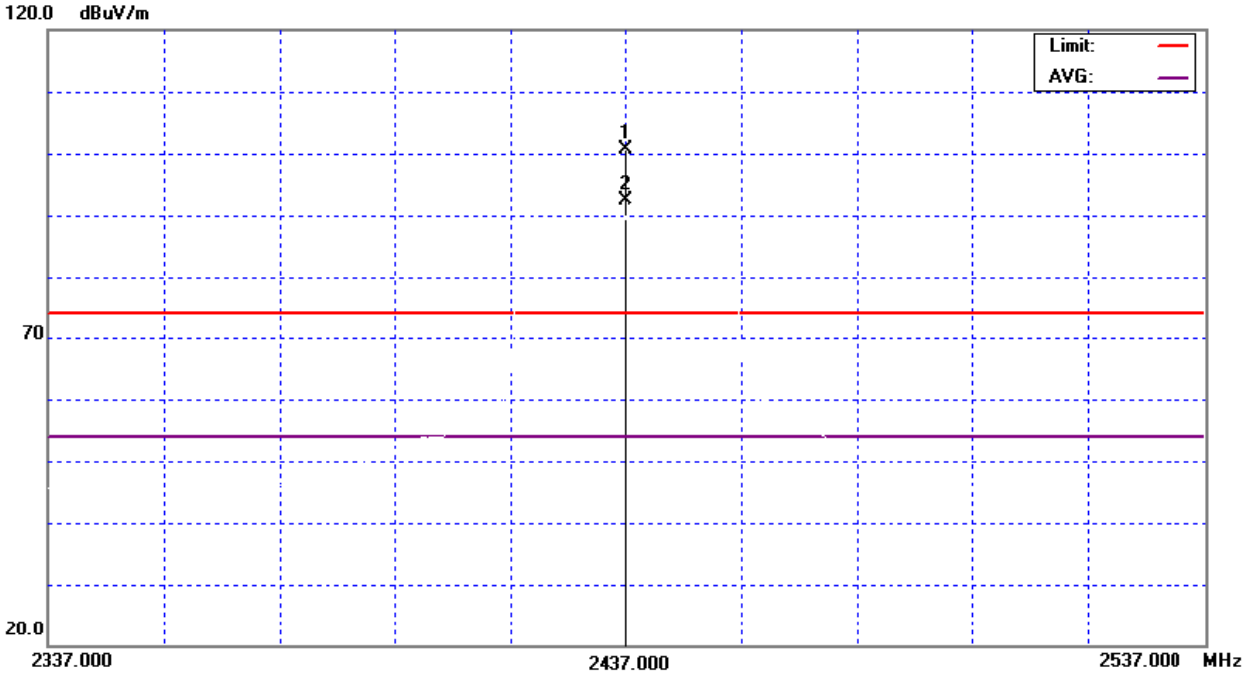
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

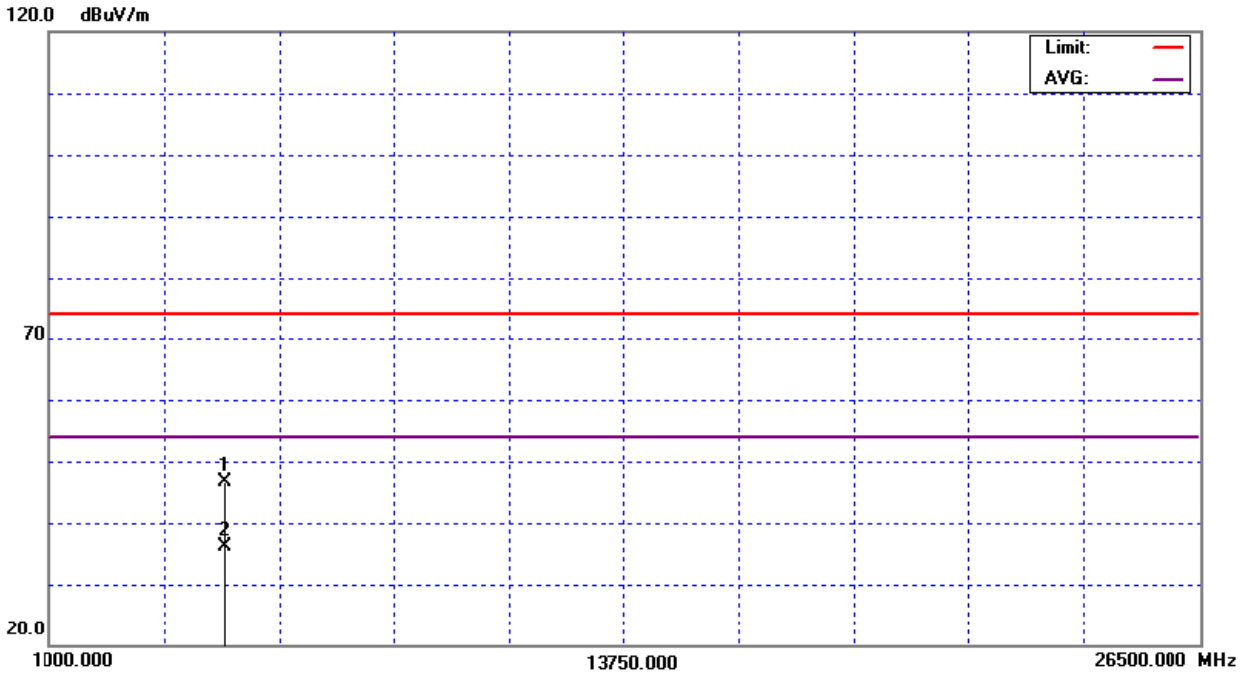
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11g/40M/CH06(Above 1000 MHz, Horizontal)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH09	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2452.00	V	65.38	56.61	32.92	98.30	89.53			X/F
2483.50	V	35.00	20.00	33.10	68.10	53.10	74.00	54.00	X/H
4904.39	V	41.68	30.89	4.44	46.12	35.33	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

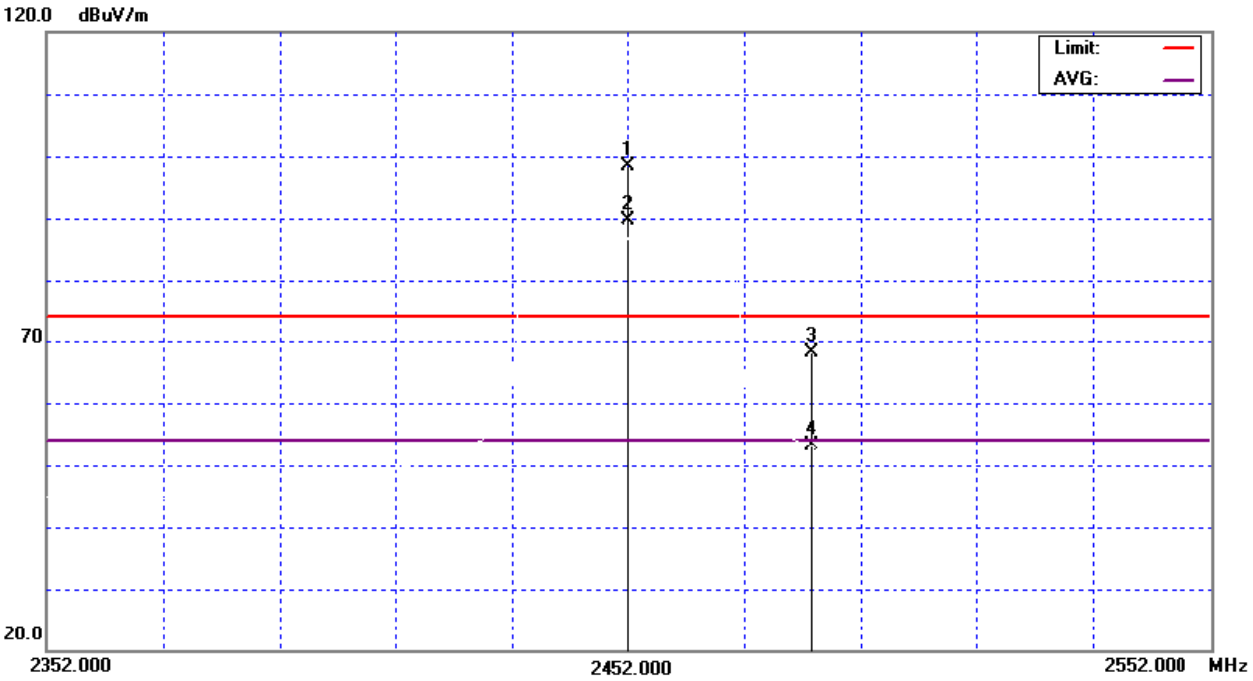
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

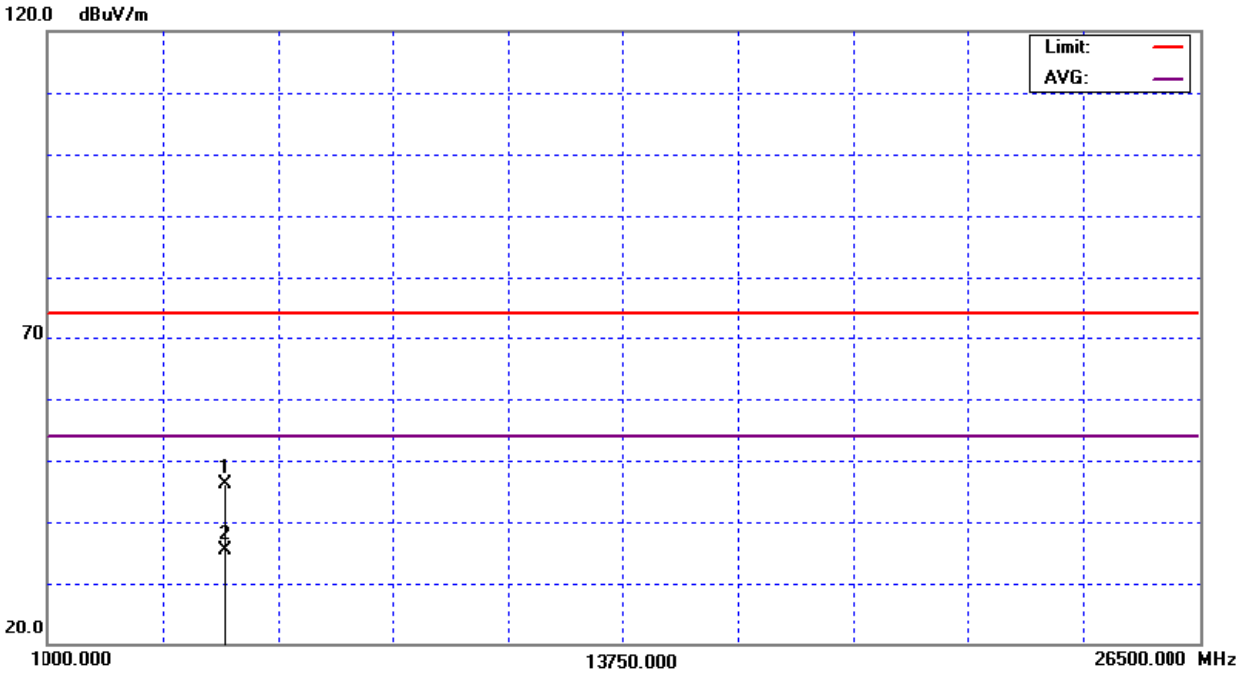
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11g/40M/CH09(Above 1000 MHz, Vertical)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH09	EUT Orthogonal Axis：	X

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2452.00	H	67.10	58.75	32.92	100.02	91.67			X/F
2483.50	H	33.52	19.92	33.10	66.62	53.02	74.00	54.00	X/H
4903.52	H	41.67	31.34	4.43	46.10	35.77	74.00	54.00	X/H

Remark：

(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

(2) All readings are Peak unless otherwise stated QP in column of『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform。

(3) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(4) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

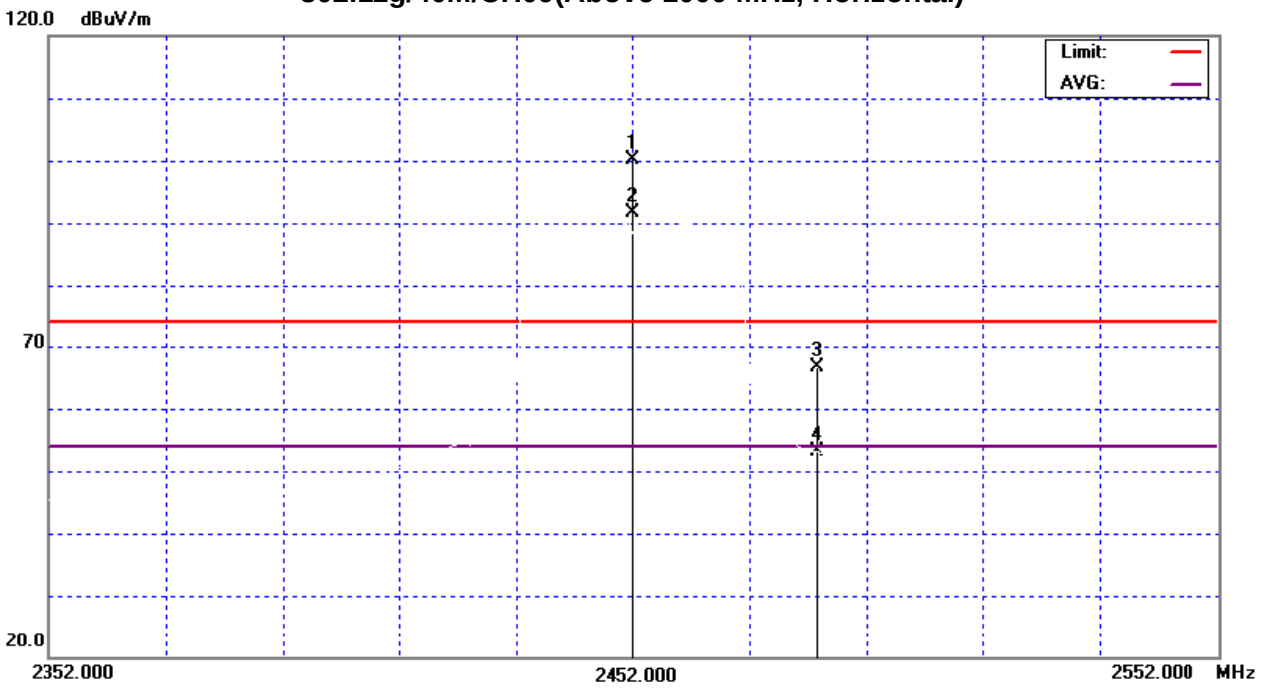
(5) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

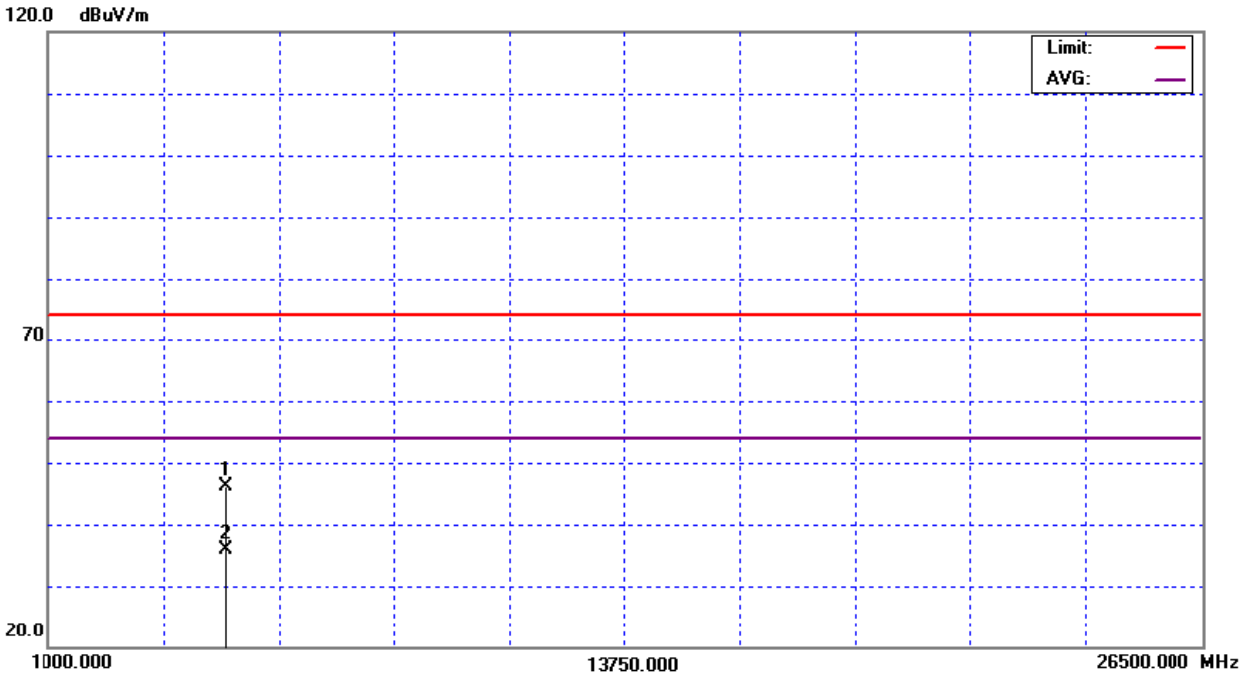
(6) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(7) EUT Orthogonal Axes：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(8) During the measurements above 1GHz it is taken care of that the EUT is always within the 3dB cone of radiation BW of the used antenna.

Orthogonal Axis：X
802.11g/40M/CH09(Above 1000 MHz, Horizontal)





4.2.9 TEST RESULTS-RESTRICTED BANDS REQUIREMENTS

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11b(Vertical)	EUT Orthogonal Axis：	X
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 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.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	22.12	13.25	32.57	54.69	45.82	74.00	54.00	X
2483.50	V	21.98	13.22	33.10	55.08	46.32	74.00	54.00	X

Remark：

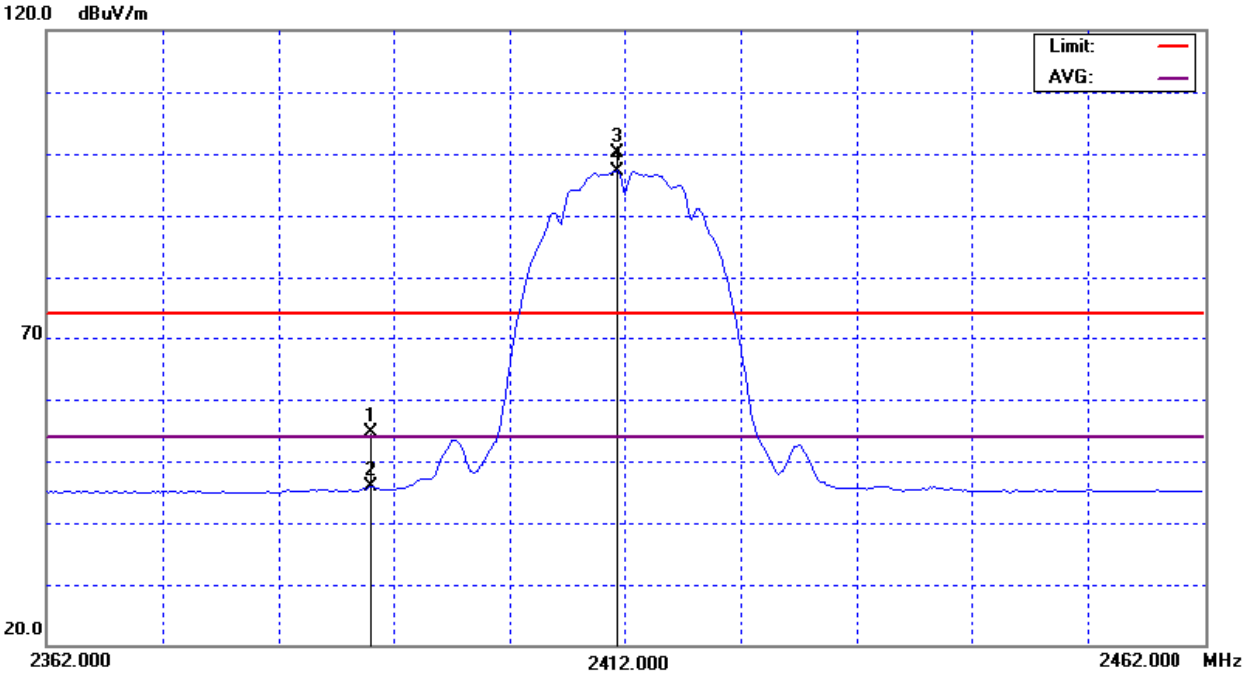
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

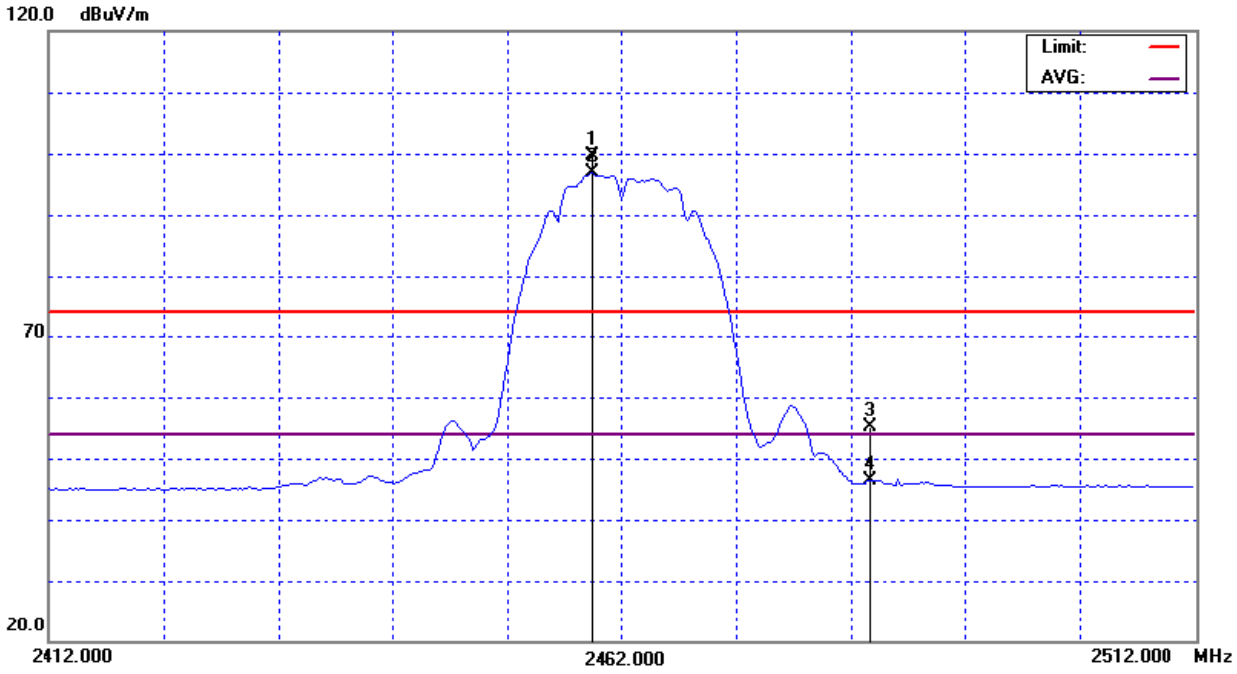
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

802.11b (Restricted Bands Requirements, Vertical)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11b(Horizontal)	EUT Orthogonal Axis：	X
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 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.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	23.07	13.62	32.57	55.64	46.19	74.00	54.00	X
2483.50	H	21.97	13.08	33.10	55.07	46.18	74.00	54.00	X

Remark：

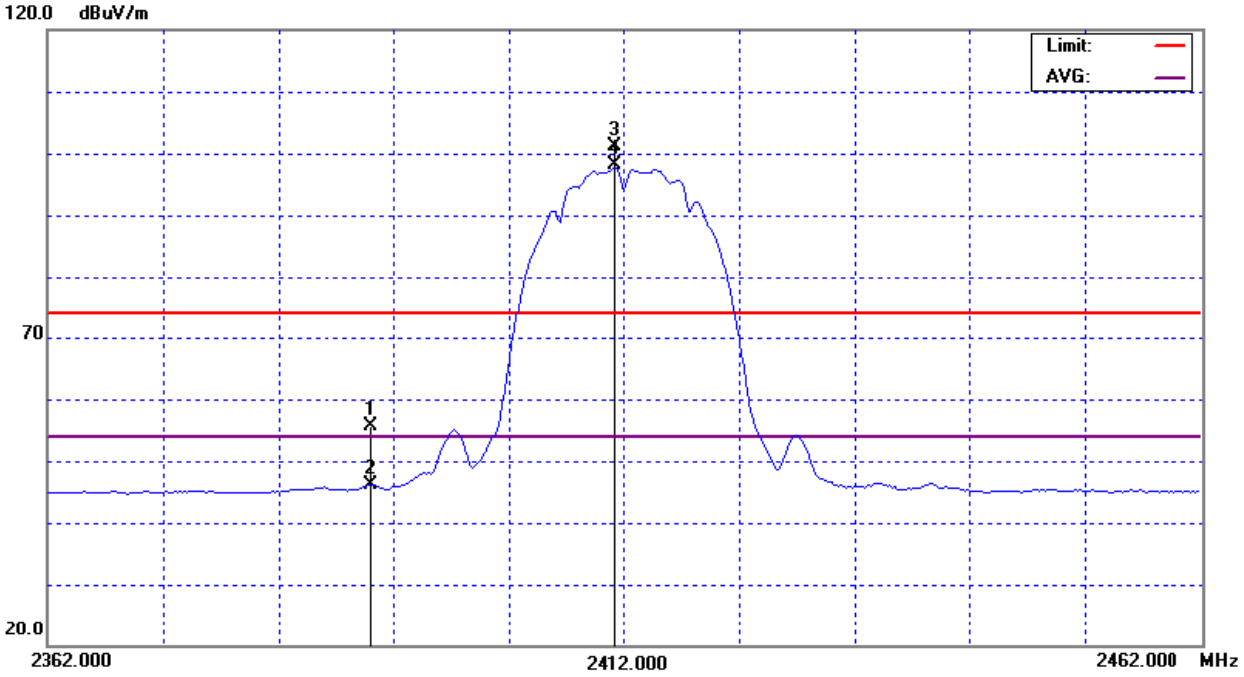
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

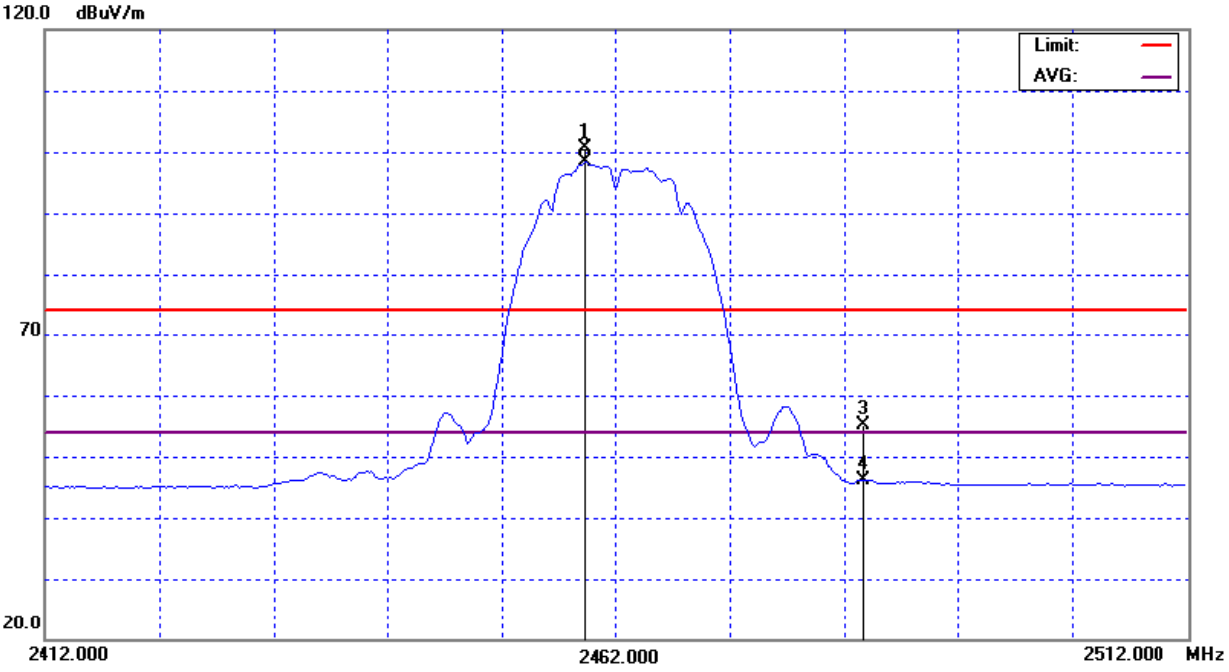
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

802.11b (Restricted Bands Requirements, Horizontal)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11g(Vertical	EUT Orthogonal Axis：	X
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 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.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	36.98	21.03	32.57	69.55	53.60	74.00	54.00	X
2483.50	V	34.41	20.14	33.10	67.51	53.24	74.00	54.00	X

Remark：

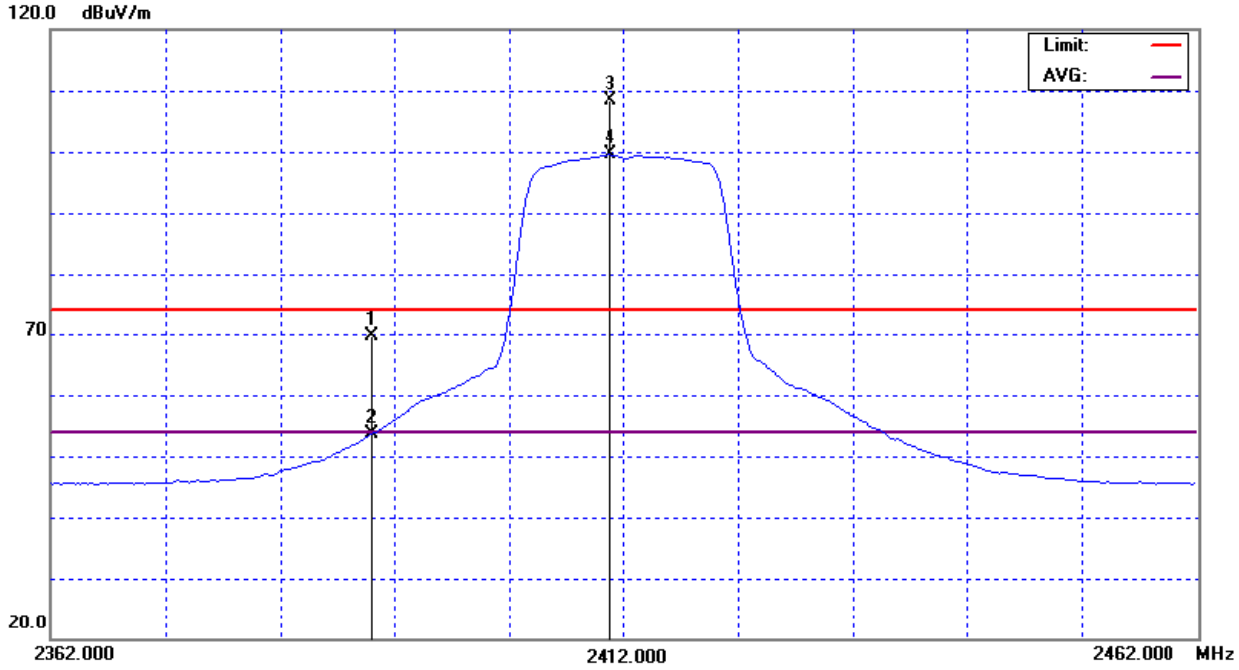
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

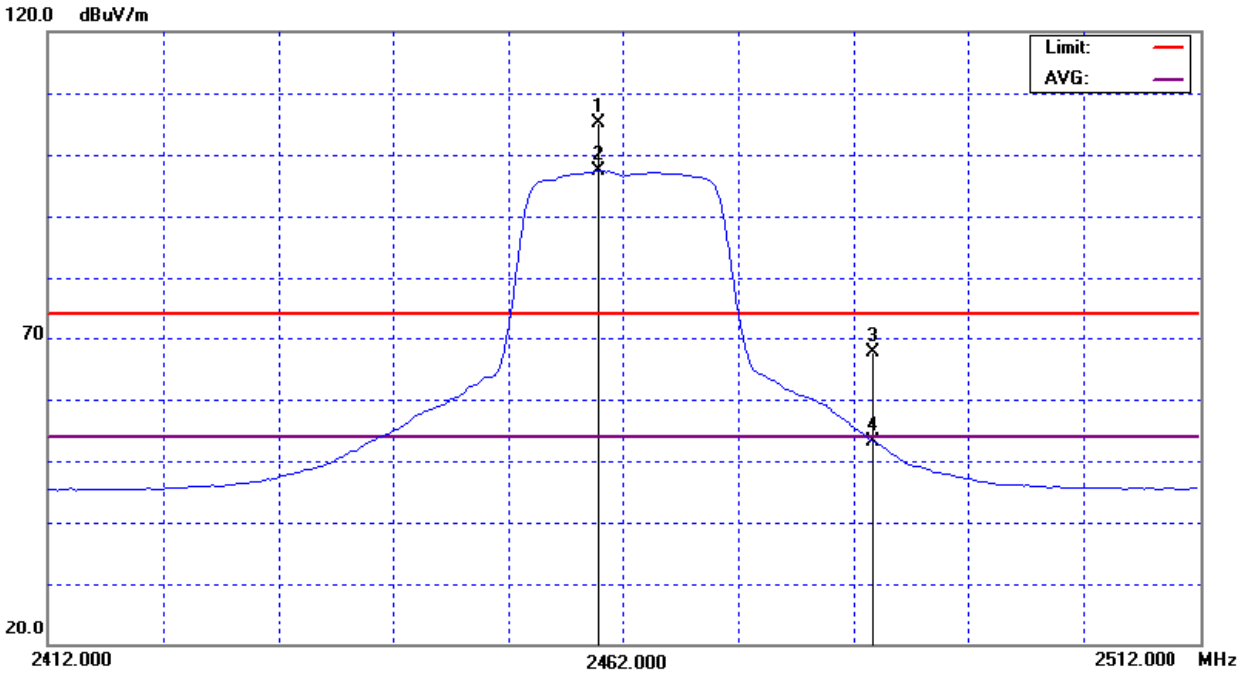
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦

(3) EUT Orthogonal Axes：

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

802.11g (Restricted Bands Requirements, Vertical)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11g(Horizontal	EUT Orthogonal Axis：	X
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 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.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	36.68	20.99	32.57	69.25	53.56	74.00	54.00	X
2483.50	H	33.50	19.90	33.10	66.60	53.00	74.00	54.00	X

Remark：

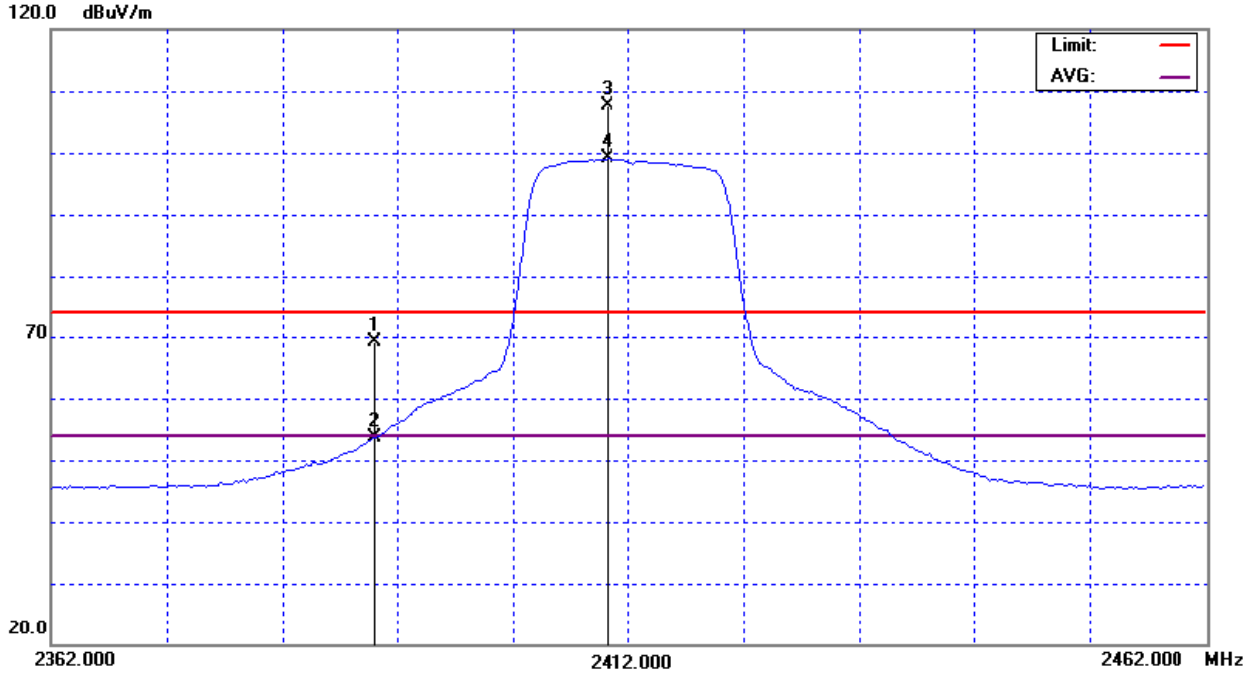
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

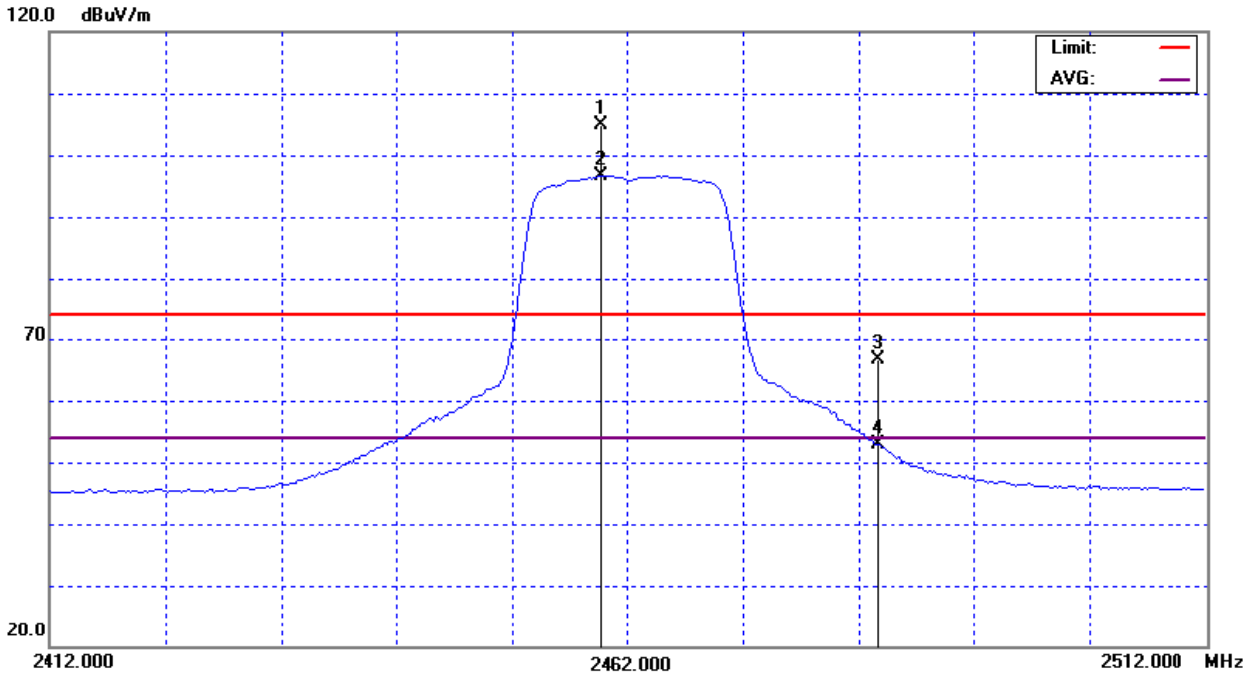
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

802.11g (Restricted Bands Requirements, Horizontal)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11n/20M(Vertical)	EUT Orthogonal Axis：	X
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 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.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	36.01	18.57	32.57	68.58	51.14	74.00	54.00	X
2483.50	V	38.76	20.13	33.10	71.86	53.23	74.00	54.00	X

Remark：

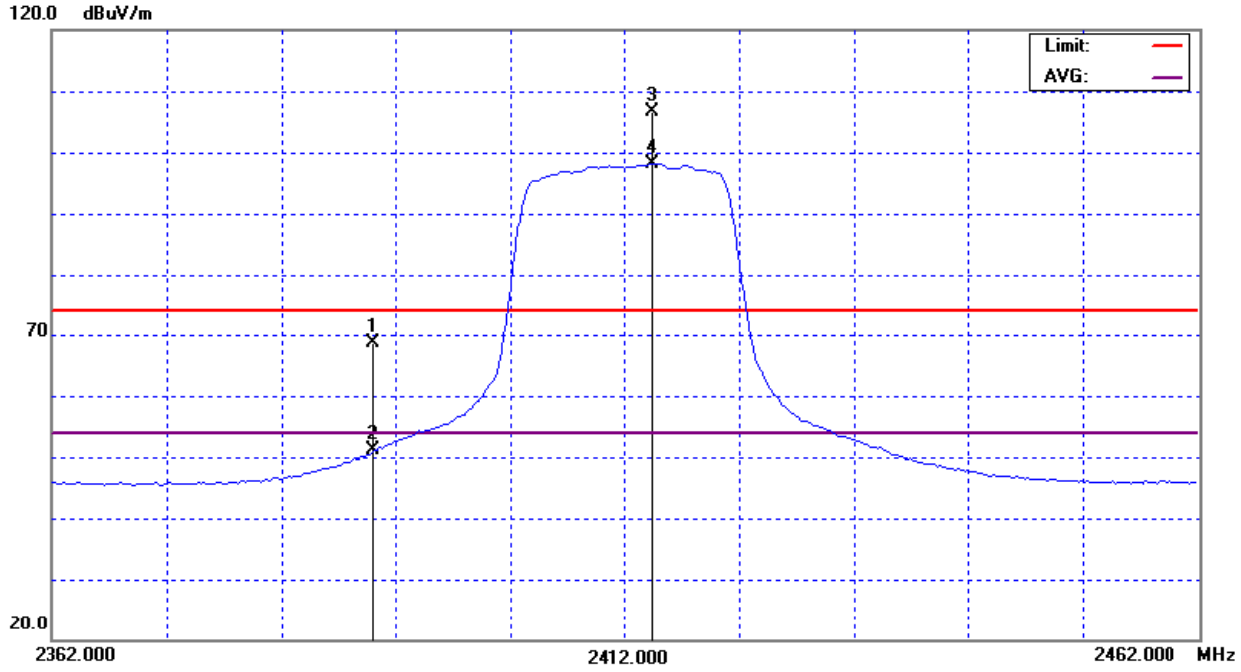
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

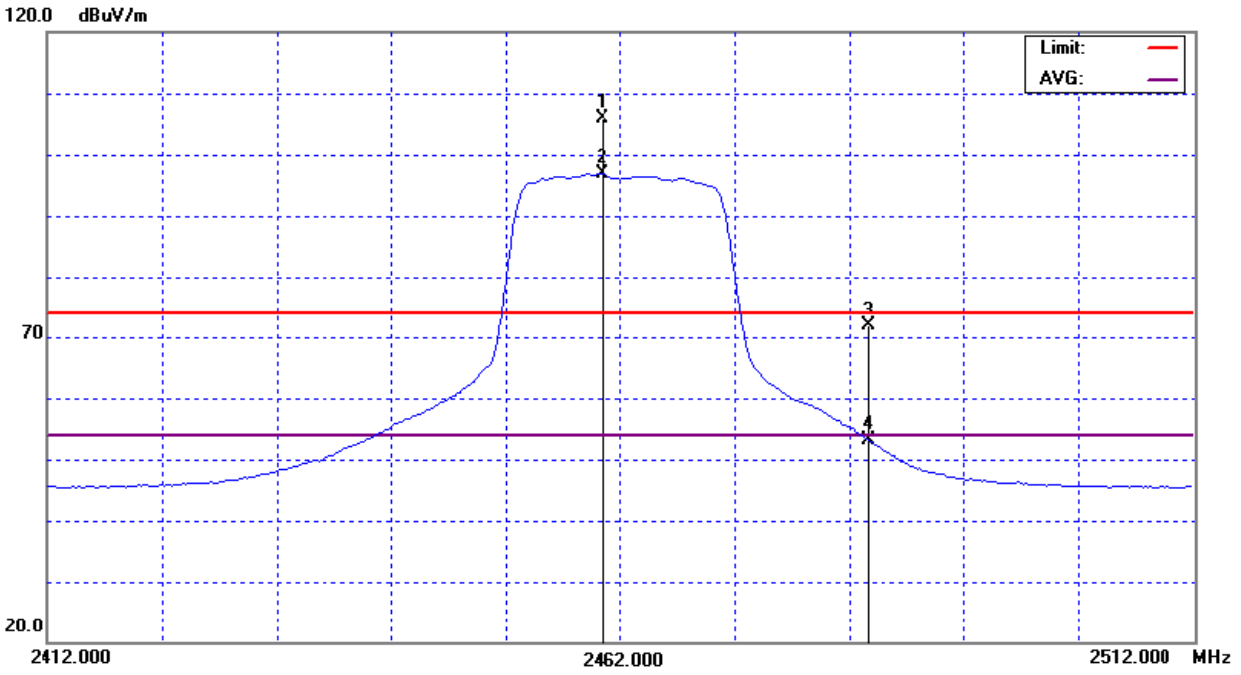
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

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





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11n/20M(Horizontal)	EUT Orthogonal Axis：	X
Note：	The emission of the carrier radiated field strength is measured for CH01/CH11 (Peak and AV) as following: 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.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	36.98	19.31	32.57	69.55	51.88	74.00	54.00	X
2483.50	H	36.99	20.50	33.10	70.09	53.60	74.00	54.00	X

Remark：

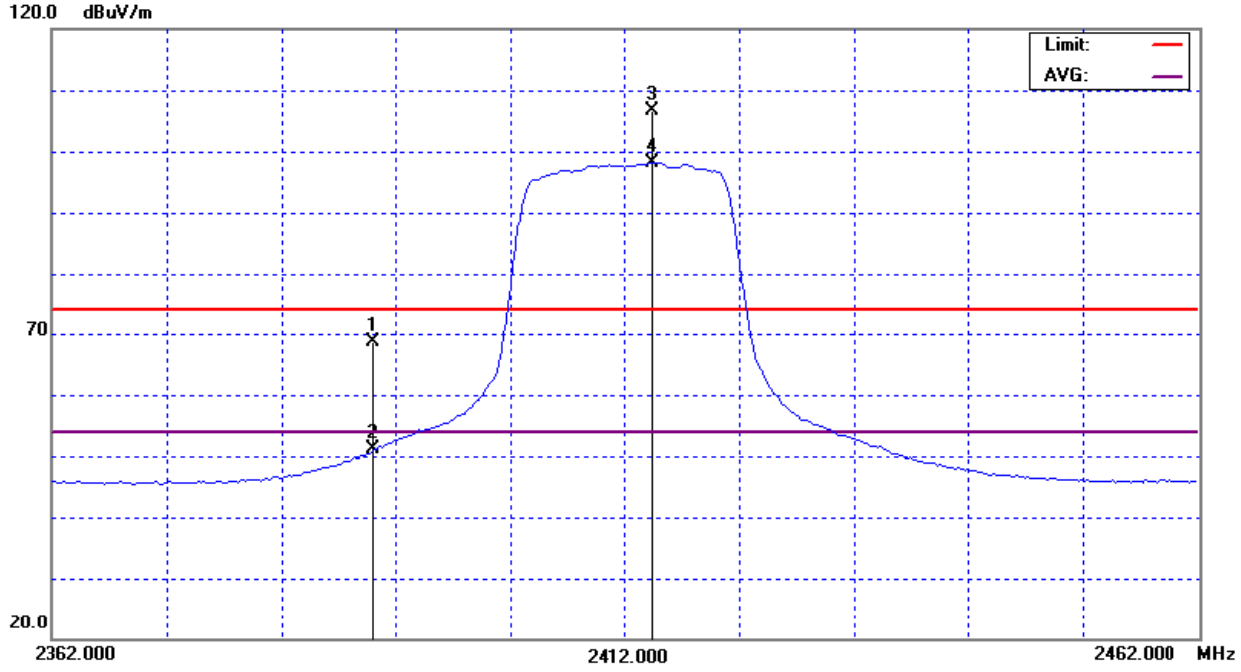
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

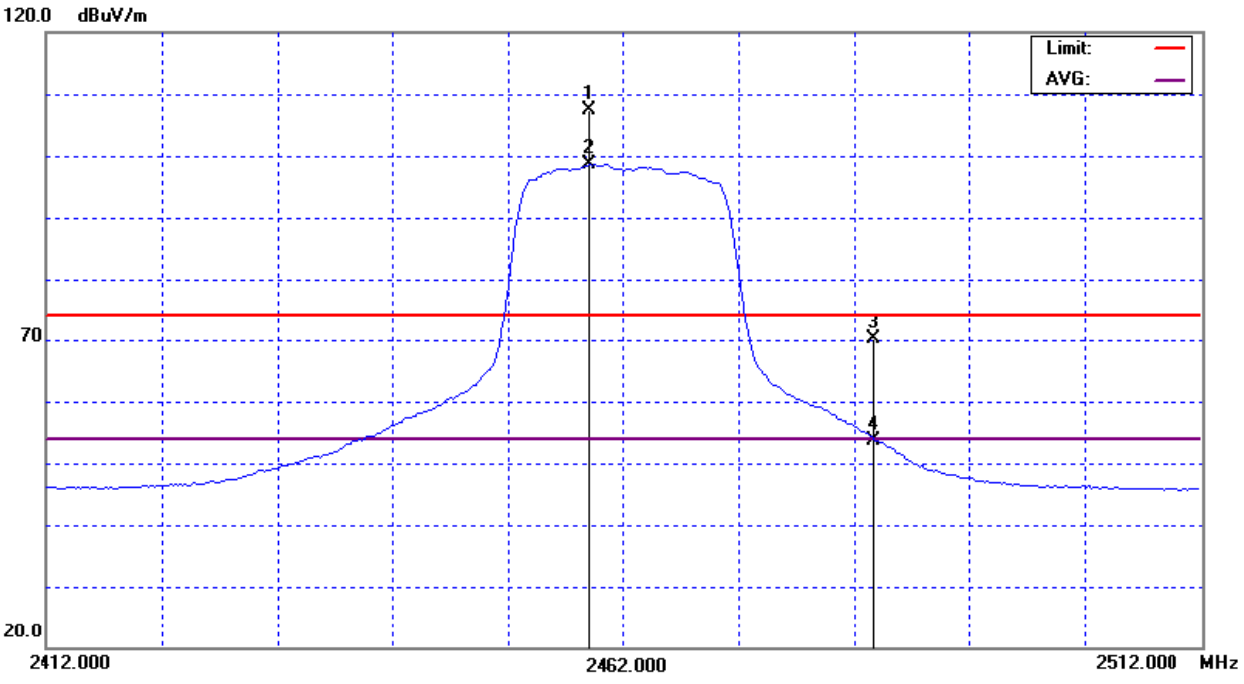
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

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





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11n/40M(Vertical)	EUT Orthogonal Axis：	X
Note：	The emission of the carrier radiated field strength is measured for CH03/CH09 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH03). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH09). Then the field strength was measured at 2483.5-2500 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	31.88	17.81	32.57	64.45	50.38	74.00	54.00	X
2483.50	V	35.00	20.00	33.10	68.10	53.10	74.00	54.00	X

Remark：

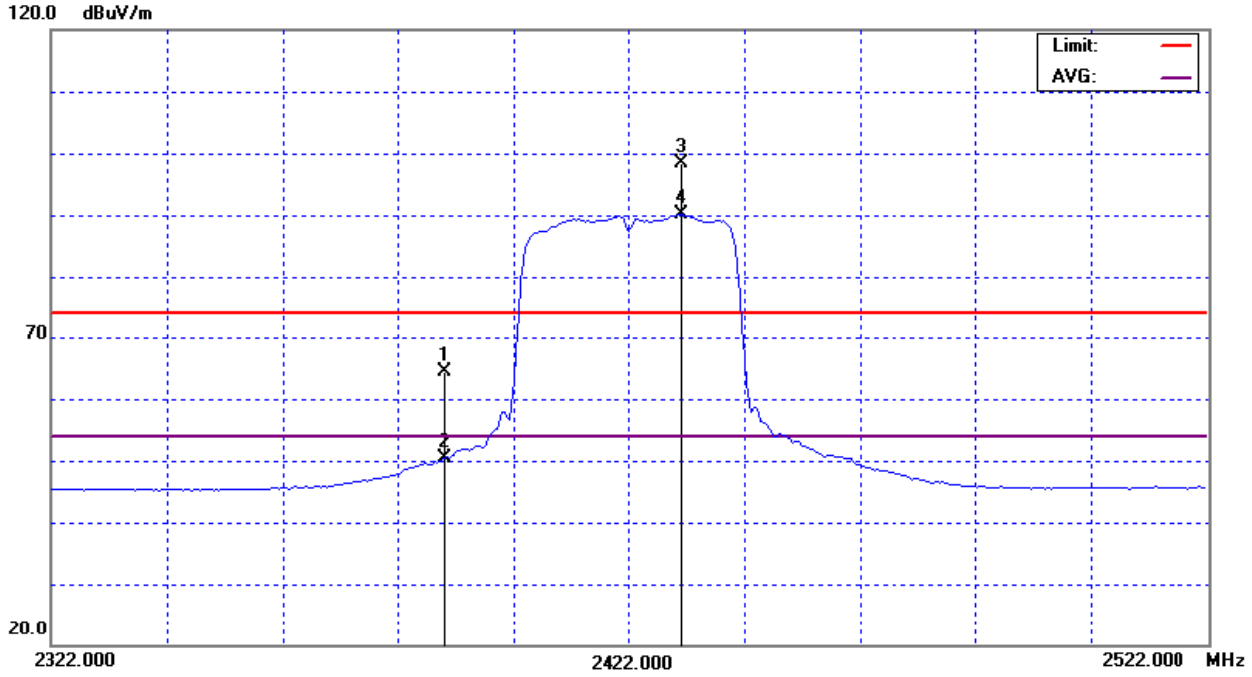
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

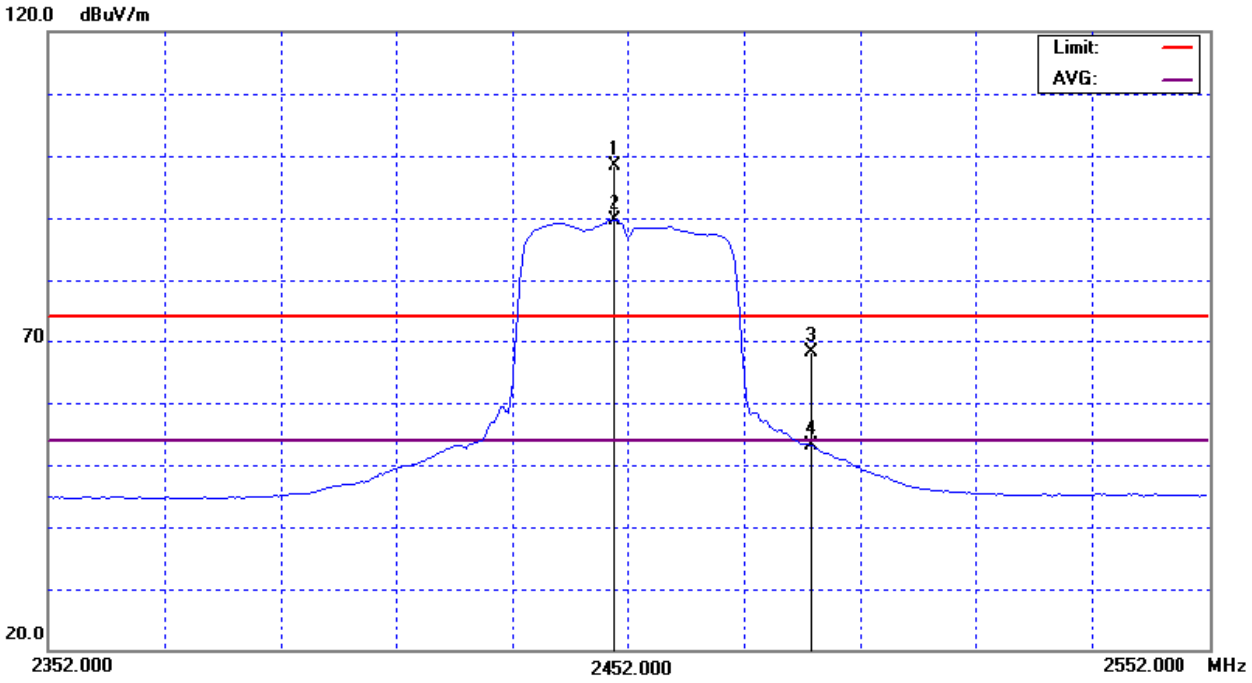
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

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





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27°C	Relative Humidity :	76%
Pressure：	1015 hPa	Test Voltage :	AC 120V/60Hz
Test Mode ：	802.11n/40M(Horizontal)	EUT Orthogonal Axis：	X
Note：	The emission of the carrier radiated field strength is measured for CH03/CH09 (Peak and AV) as following: 1. The transmitter was then configured with the worst case antenna and setup to transmit at the lowest channel (CH03). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was configured with the worst case antenna and setup to transmit at the highest channel (CH09). Then the field strength was measured at 2483.5-2500 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	35.06	19.25	32.57	67.63	51.82	74.00	54.00	X
2483.50	H	33.52	19.92	33.10	66.62	53.02	74.00	54.00	X

Remark：

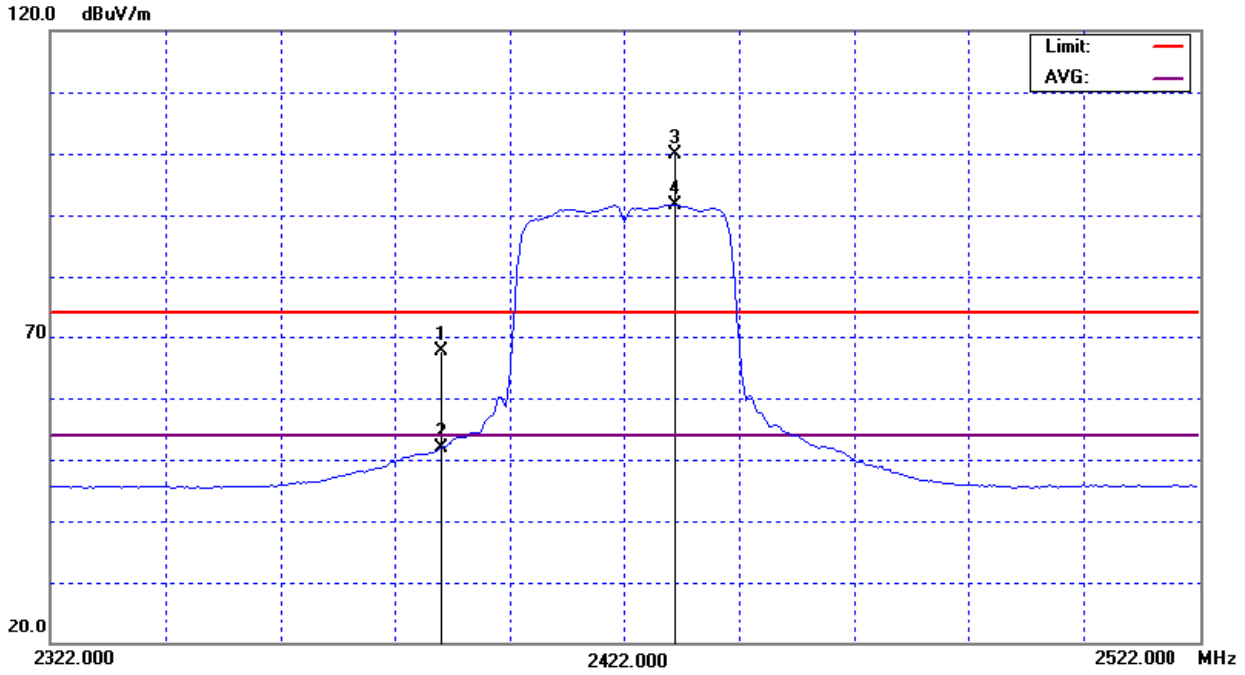
(1) Spectrum Setting : 30MHz – 1000MHz , RBW= 100KHz, VBW=100KHz, Sweep time = 200 ms. 1GHz- 25GHz, RBW= 1MHz, VBW= 1MHz, Sweep time = Auto

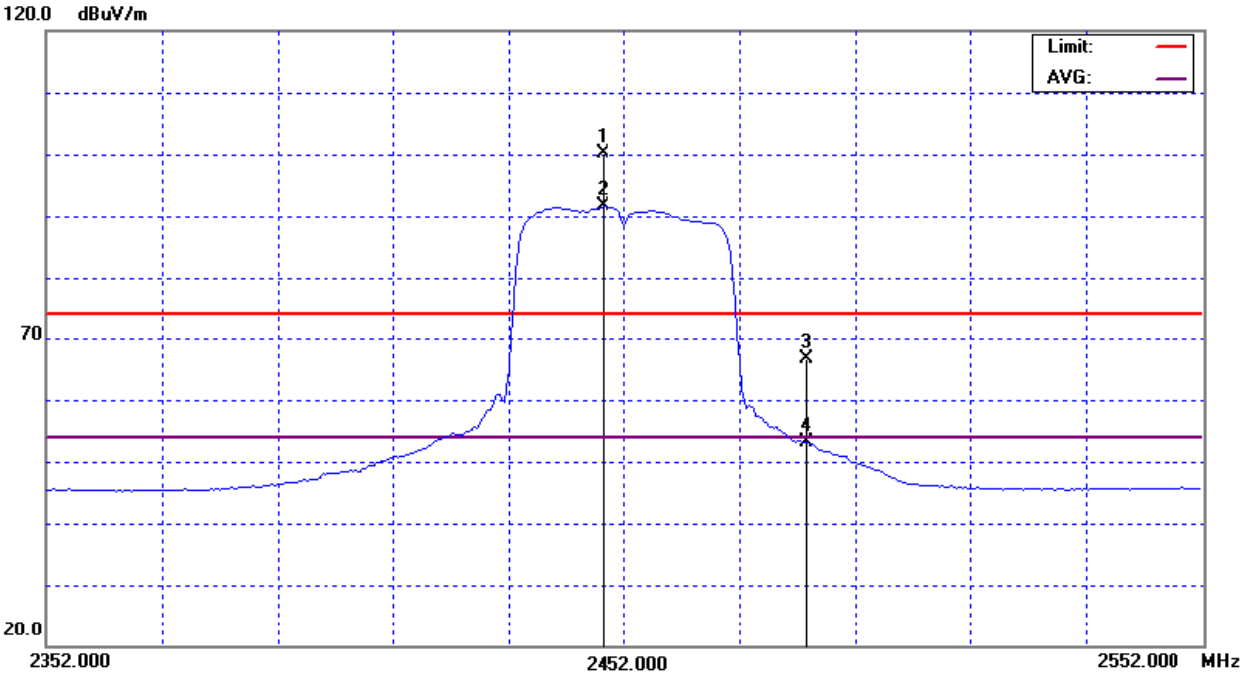
(2) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

(3) EUT Orthogonal Axes：

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

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





5. BANDWIDTH TEST (FOR DSSS)

5.1 APPLIED PROCEDURES / LIMIT

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

5.1.1 MEASUREMENT INSTRUMENTS LIST

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

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

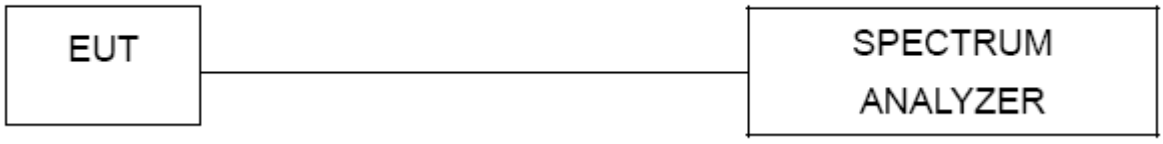
5.1.2 TEST PROCEDURE

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



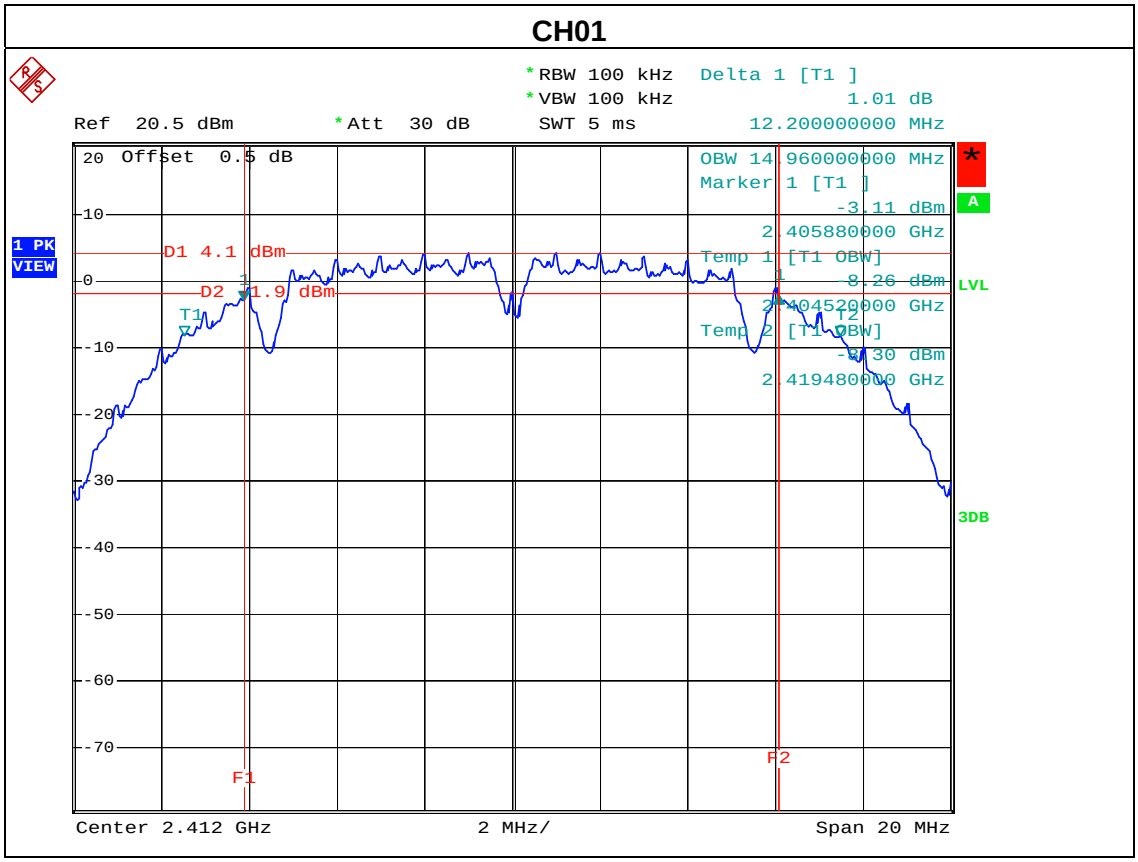
5.1.5 EUT OPERATION CONDITIONS

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.

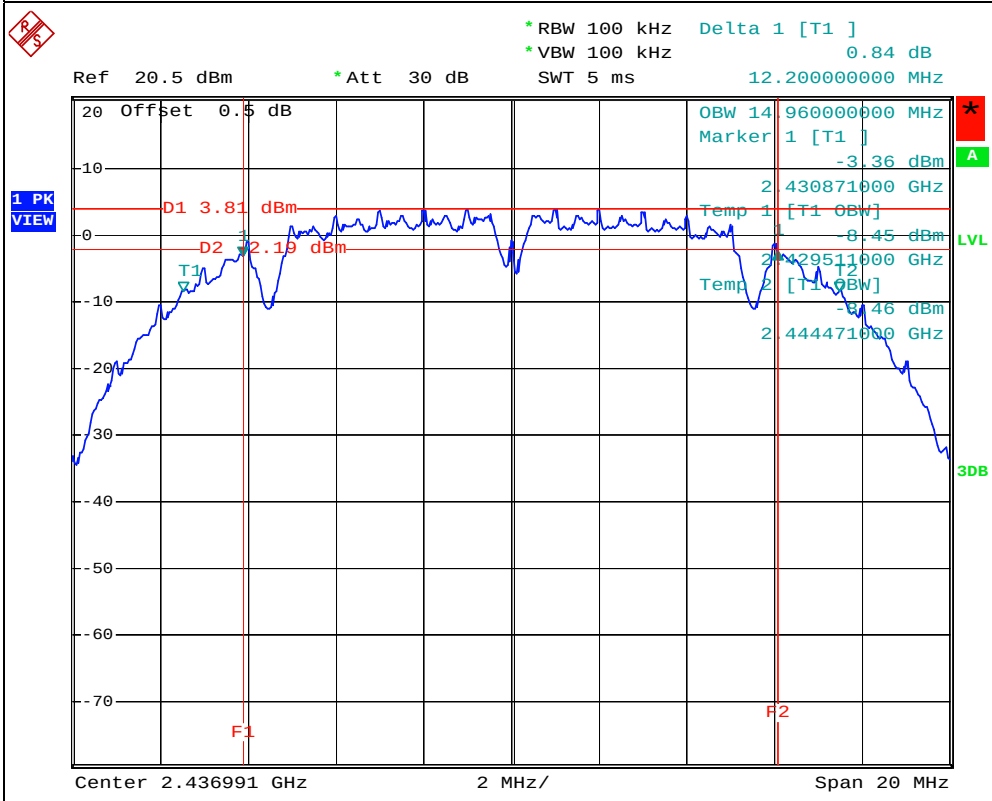
5.1.6 TEST RESULTS

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH01, CH06, CH11		

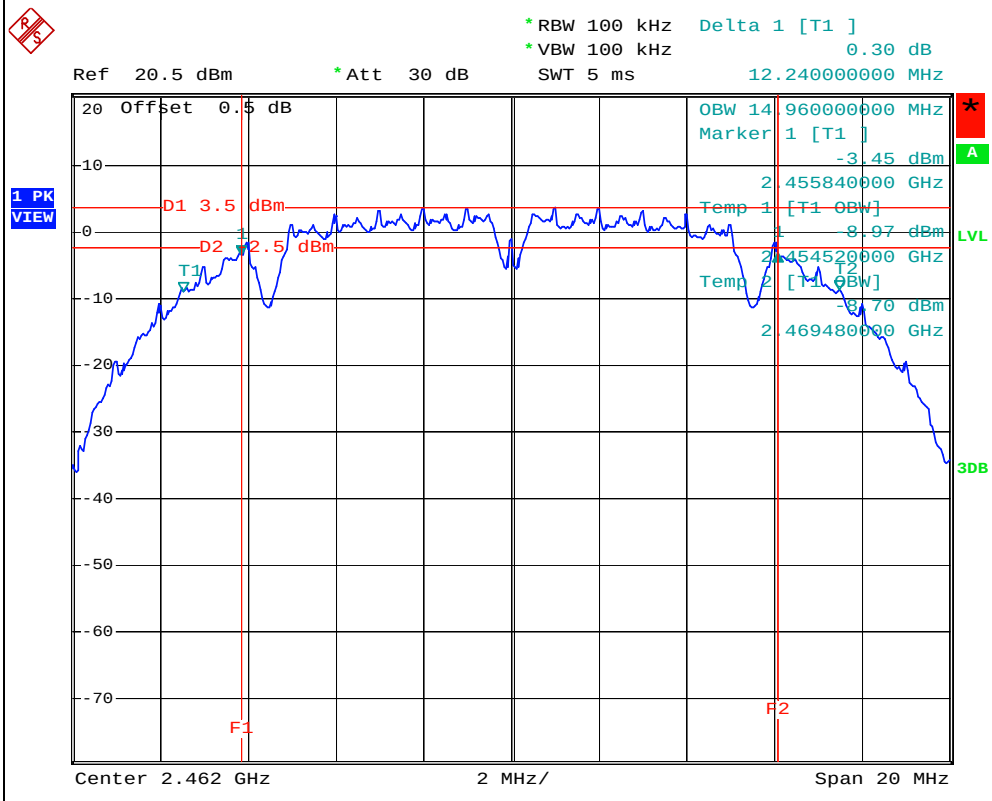
Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	12.20	>=500KHz
CH06	2437	12.20	>=500KHz
CH11	2462	12.24	>=500KHz



CH06


*RBW 100 kHz
*VBW 100 kHz
Ref 20.5 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
0.84 dB
12.200000000 MHz
20 Offset 0.5 dB
OBW 14.960000000 MHz
Marker 1 [T1]
-3.36 dBm
2.430871000 GHz
Temp 1 [T1 OBW]
-8.45 dBm
2.429511000 GHz
Temp 2 [T1 OBW]
-8.46 dBm
2.444471000 GHz
D1 3.81 dBm
D2 2.19 dBm
1 PK
VIEW
LVL
3DB
T1
T2
F1
F2
Center 2.436991 GHz
2 MHz/
Span 20 MHz

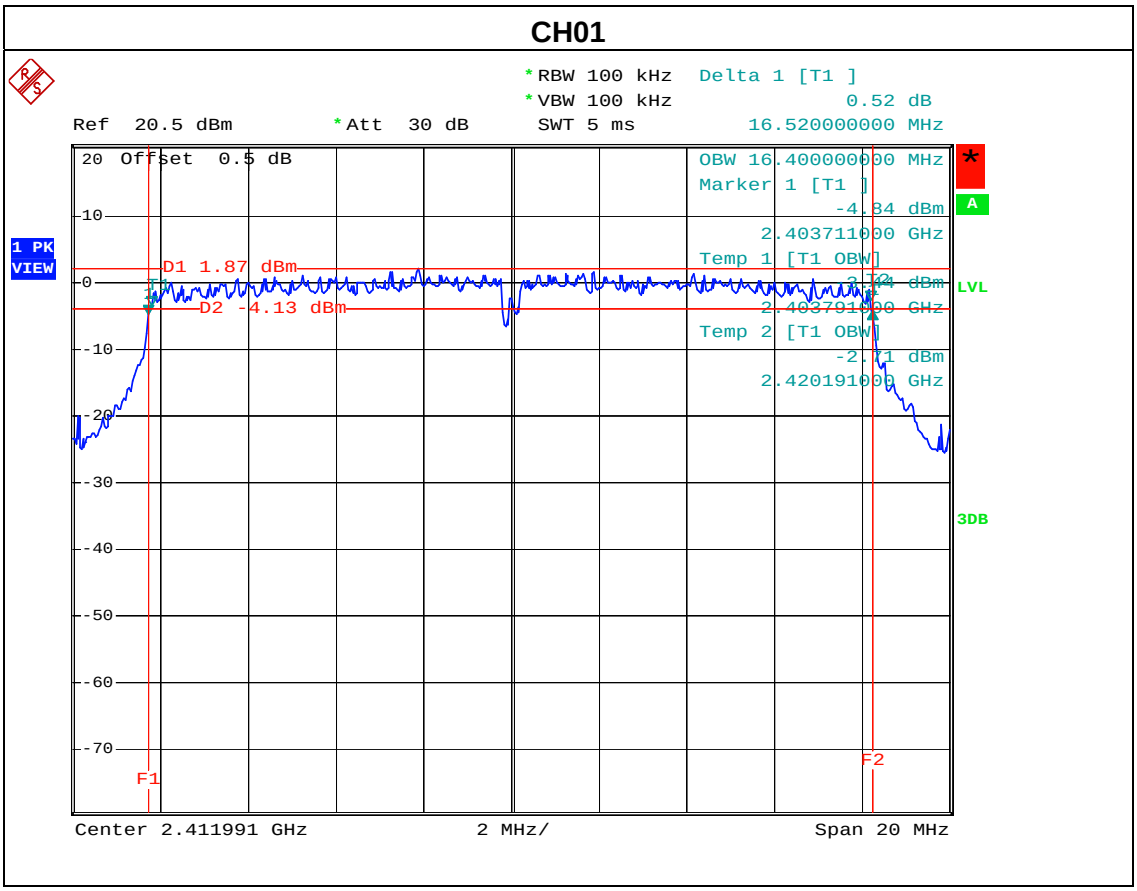
CH11


*RBW 100 kHz
*VBW 100 kHz
Ref 20.5 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
0.30 dB
12.240000000 MHz
20 Offset 0.5 dB
OBW 14.960000000 MHz
Marker 1 [T1]
-3.45 dBm
2.455840000 GHz
Temp 1 [T1 OBW]
-8.97 dBm
2.454520000 GHz
Temp 2 [T1 OBW]
-8.70 dBm
2.469480000 GHz
D1 3.5 dBm
D2 2.5 dBm
1 PK
VIEW
LVL
3DB
T1
T2
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

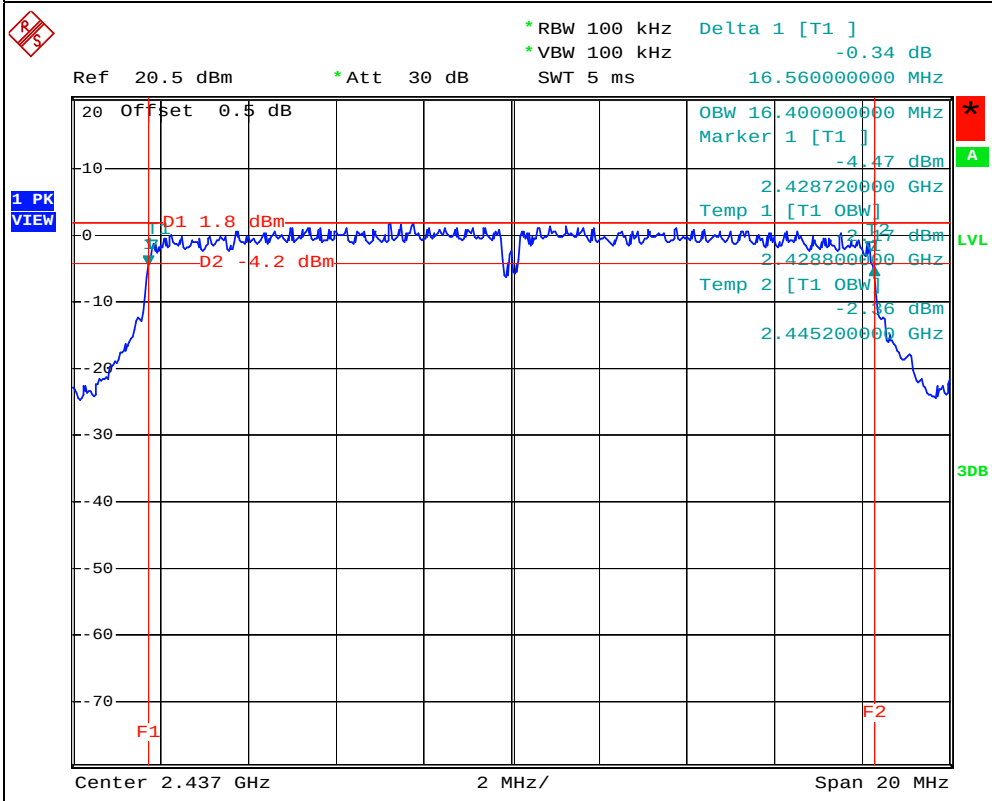
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	16.52	>=500KHz
CH06	2437	16.56	>=500KHz
CH11	2462	16.64	>=500KHz

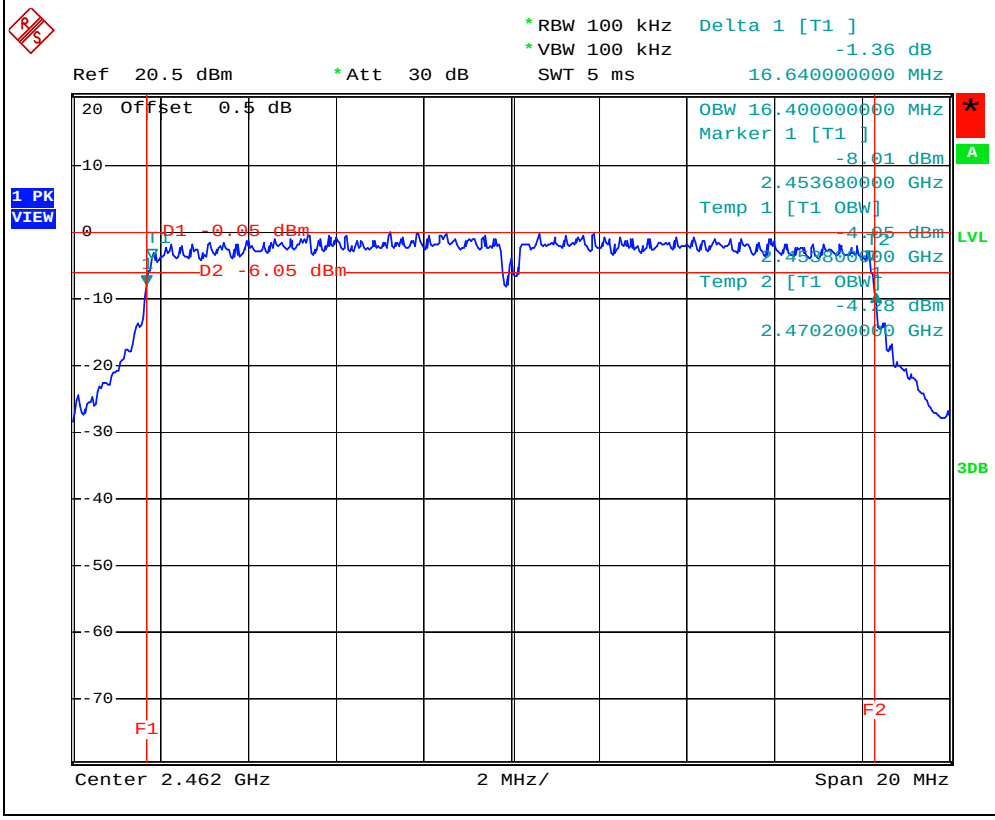
CH01



CH06


*RBW 100 kHz
*VBW 100 kHz
Ref 20.5 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
-0.34 dB
16.560000000 MHz
Offset 0.5 dB
OBW 16.400000000 MHz
Marker 1 [T1]
-4.47 dBm
2.428720000 GHz
Temp 1 [T1 OBW]
-2.12 dBm
2.428800000 GHz
Temp 2 [T1 OBW]
-2.36 dBm
2.445200000 GHz
D1 1.8 dBm
D2 -4.2 dBm
1 PK
VIEW
LVL
3DB
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

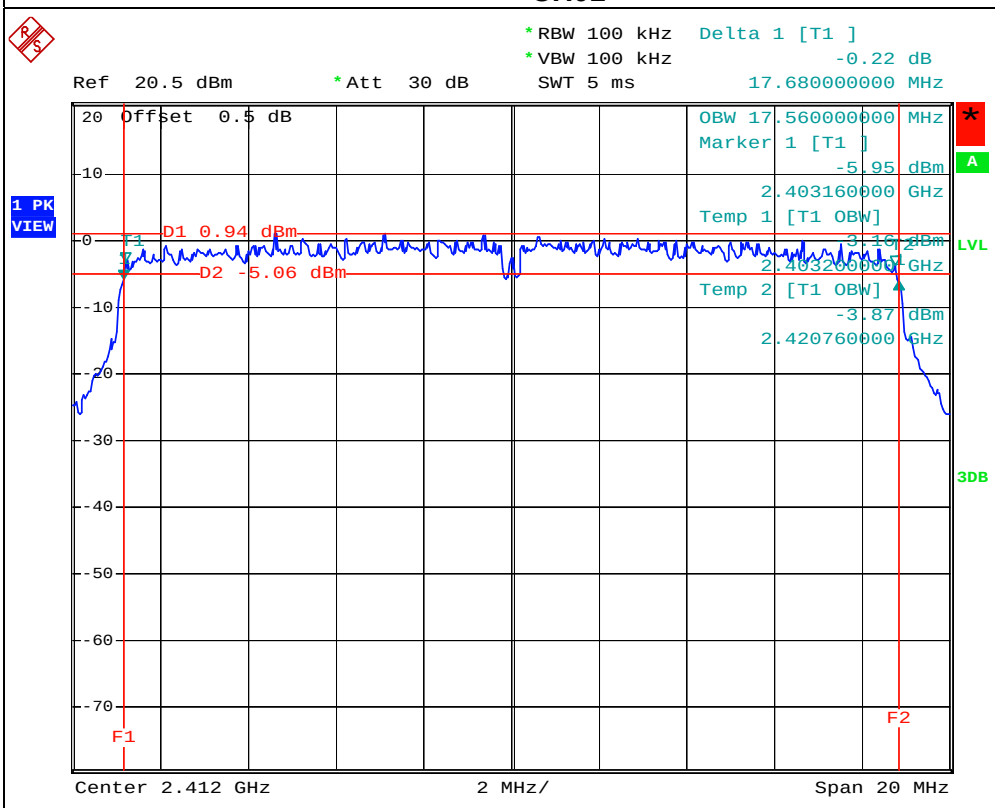
CH11


*RBW 100 kHz
*VBW 100 kHz
Ref 20.5 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
-1.36 dB
16.640000000 MHz
Offset 0.5 dB
OBW 16.400000000 MHz
Marker 1 [T1]
-8.01 dBm
2.453680000 GHz
Temp 1 [T1 OBW]
-4.05 dBm
2.453800000 GHz
Temp 2 [T1 OBW]
-4.28 dBm
2.470200000 GHz
D1 -0.05 dBm
D2 -6.05 dBm
1 PK
VIEW
LVL
3DB
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

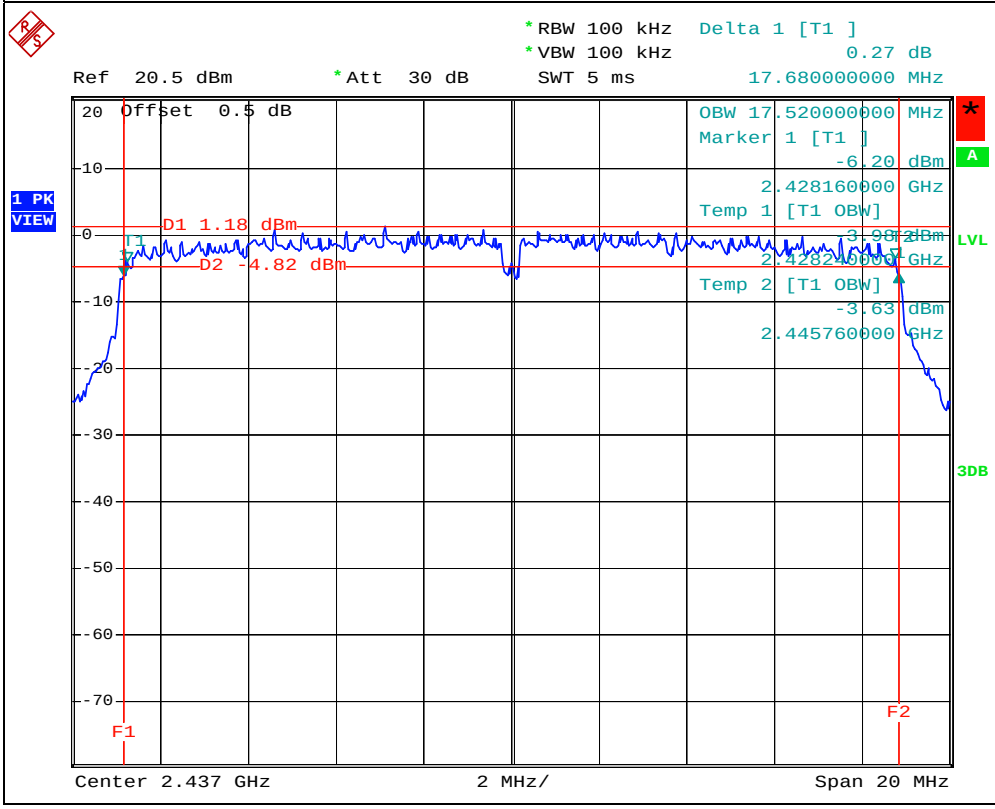
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH01	2412	17.68	>=500KHz
CH06	2437	17.68	>=500KHz
CH11	2462	17.76	>=500KHz

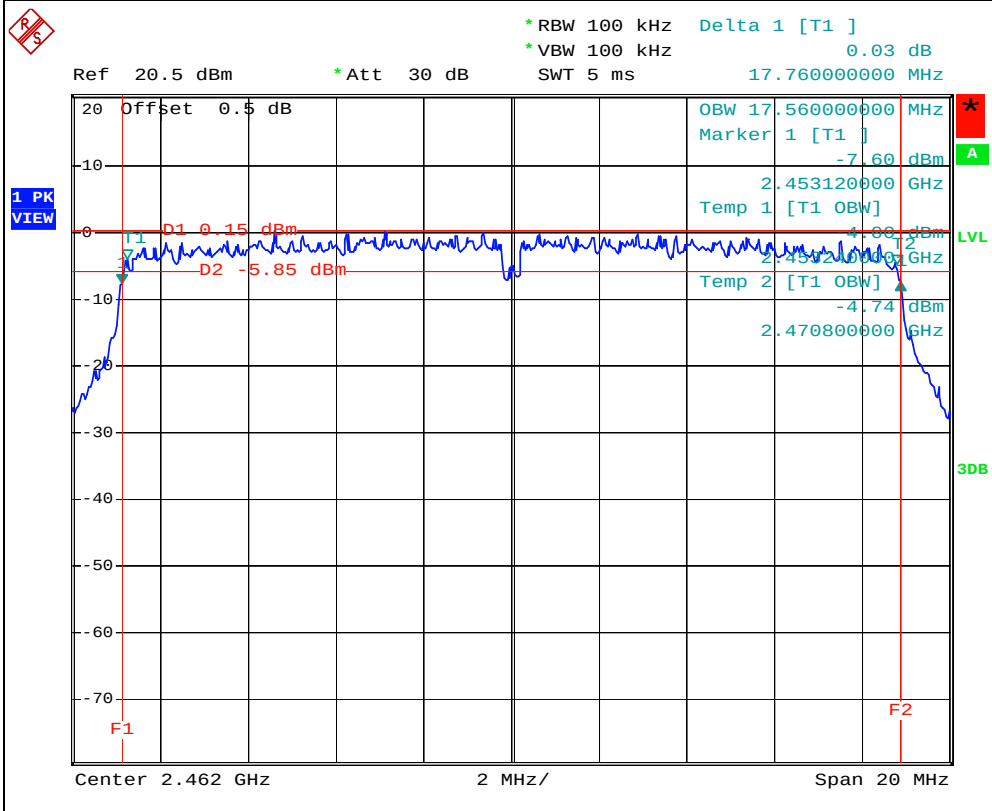
CH01



CH06


*RBW 100 kHz
*VBW 100 kHz
Ref 20.5 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
0.27 dB
17.680000000 MHz
Offset 0.5 dB
OBW 17.520000000 MHz
Marker 1 [T1]
-6.20 dBm
2.428160000 GHz
Temp 1 [T1 OBW]
-3.98 dBm
2.428240000 GHz
Temp 2 [T1 OBW]
-3.63 dBm
2.445760000 GHz
1 PK VIEW
D1 1.18 dBm
D2 -4.82 dBm
LVL
3DB
F1
F2
Center 2.437 GHz
2 MHz/
Span 20 MHz

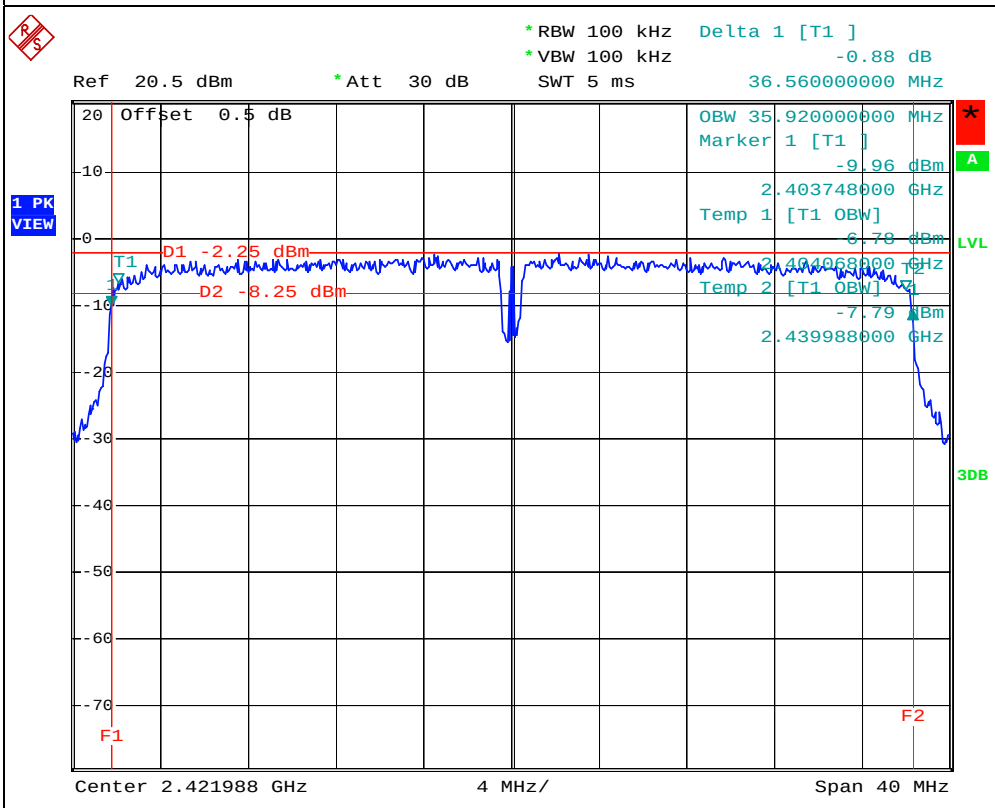
CH11


*RBW 100 kHz
*VBW 100 kHz
Ref 20.5 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
0.03 dB
17.760000000 MHz
Offset 0.5 dB
OBW 17.560000000 MHz
Marker 1 [T1]
-7.60 dBm
2.453120000 GHz
Temp 1 [T1 OBW]
-4.00 dBm
2.453200000 GHz
Temp 2 [T1 OBW]
-4.74 dBm
2.470800000 GHz
1 PK VIEW
D1 0.15 dBm
D2 -5.85 dBm
LVL
3DB
F1
F2
Center 2.462 GHz
2 MHz/
Span 20 MHz

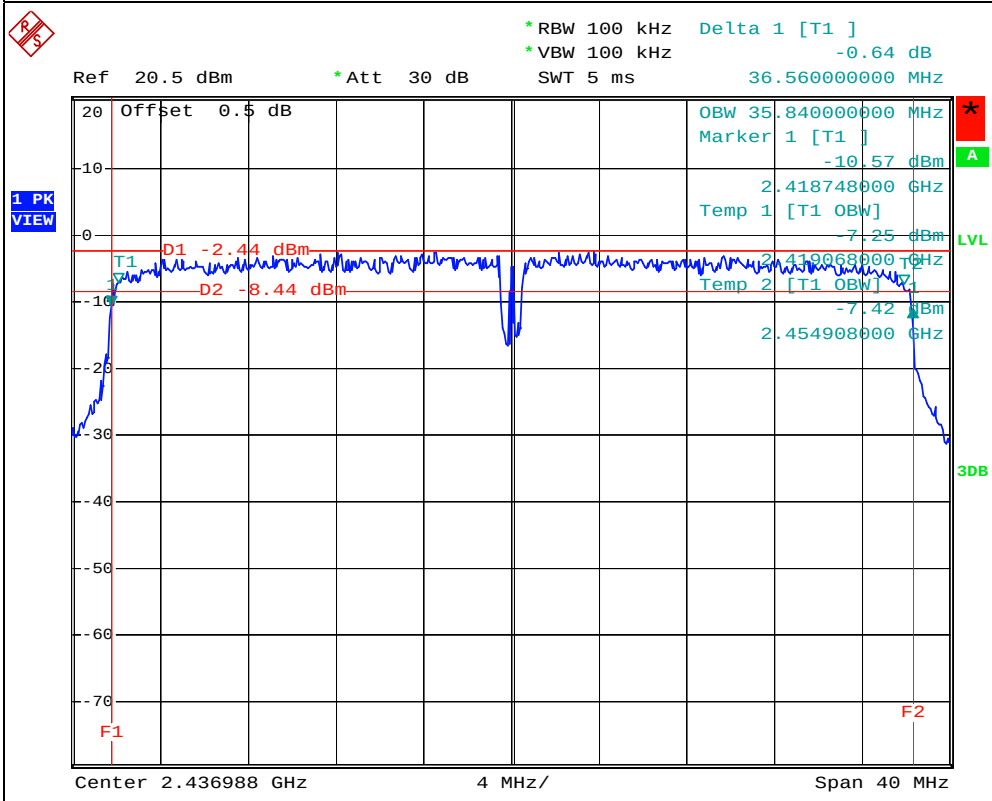
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH03, CH06, CH09		

Test Channel	Frequency (MHz)	Bandwidth (MHz)	LIMIT (MHz)
CH03	2422	36.59	>=500KHz
CH06	2437	35.84	>=500KHz
CH09	2452	35.84	>=500KHz

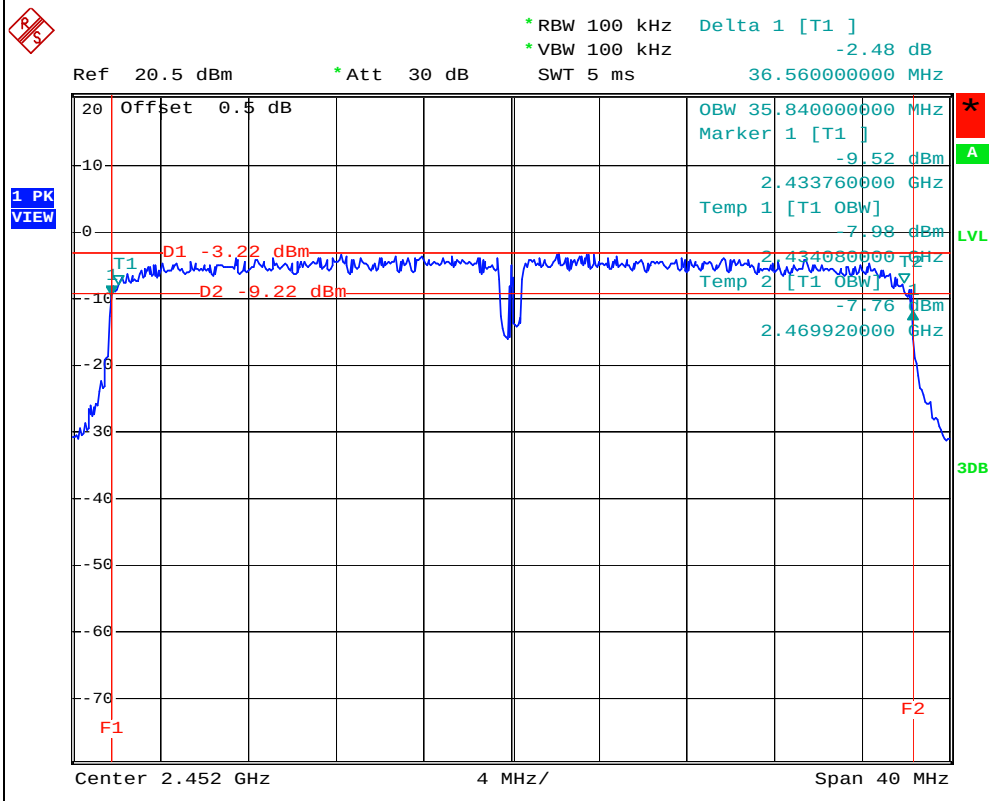
CH03



CH06


*RBW 100 kHz
*VBW 100 kHz
Ref 20.5 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
-0.64 dB
36.560000000 MHz
Offset 0.5 dB
OBW 35.840000000 MHz
Marker 1 [T1]
-10.57 dBm
2.418748000 GHz
Temp 1 [T1 OBW]
-7.25 dBm
2.419068000 GHz
Temp 2 [T1 OBW]
-7.42 dBm
2.454908000 GHz
1 PK VIEW
A
LVL
3DB
T1
D1 -2.44 dBm
D2 -8.44 dBm
F1
F2
Center 2.436988 GHz
4 MHz/
Span 40 MHz

CH09


*RBW 100 kHz
*VBW 100 kHz
Ref 20.5 dBm
*Att 30 dB
SWT 5 ms
Delta 1 [T1]
-2.48 dB
36.560000000 MHz
Offset 0.5 dB
OBW 35.840000000 MHz
Marker 1 [T1]
-9.52 dBm
2.433760000 GHz
Temp 1 [T1 OBW]
-7.98 dBm
2.434080000 GHz
Temp 2 [T1 OBW]
-7.76 dBm
2.469920000 GHz
1 PK VIEW
A
LVL
3DB
T1
D1 -3.22 dBm
D2 -9.22 dBm
F1
F2
Center 2.452 GHz
4 MHz/
Span 40 MHz

6. PEAK OUTPUT POWER TEST (FOR DSSS)

6.1 APPLIED PROCEDURES / LIMIT

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

6.1.1 MEASUREMENT INSTRUMENTS LIST

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

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

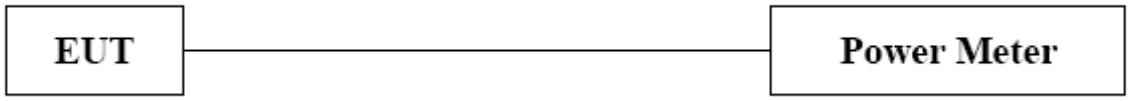
6.1.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Meter and antenna output port as show in the block diagram below,

6.1.3 DEVIATION FROM STANDARD

No deviation.

6.1.4 TEST SETUP



6.1.5 EUT OPERATION CONDITIONS

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

6.1.6 TEST RESULTS

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	17.56	30	1
CH06	2437	17.69	30	1
CH11	2462	17.55	30	1

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	21.10	30	1
CH06	2437	21.02	30	1
CH11	2462	20.30	30	1

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH01	2412	20.66	30	1
CH06	2437	20.42	30	1
CH11	2462	20.10	30	1

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH03, CH06, CH09		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH03	2422	20.91	30	1
CH06	2437	20.48	30	1
CH09	2452	20.74	30	1

7. ANTENNA CONDUCTED SPURIOUS EMISSION (FOR DSSS)

7.1 APPLIED PROCEDURES / LIMIT

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

7.1.1 MEASUREMENT INSTRUMENTS LIST

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

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

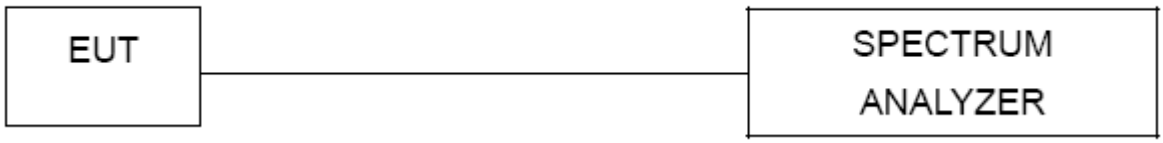
7.1.2 TEST PROCEDURE

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

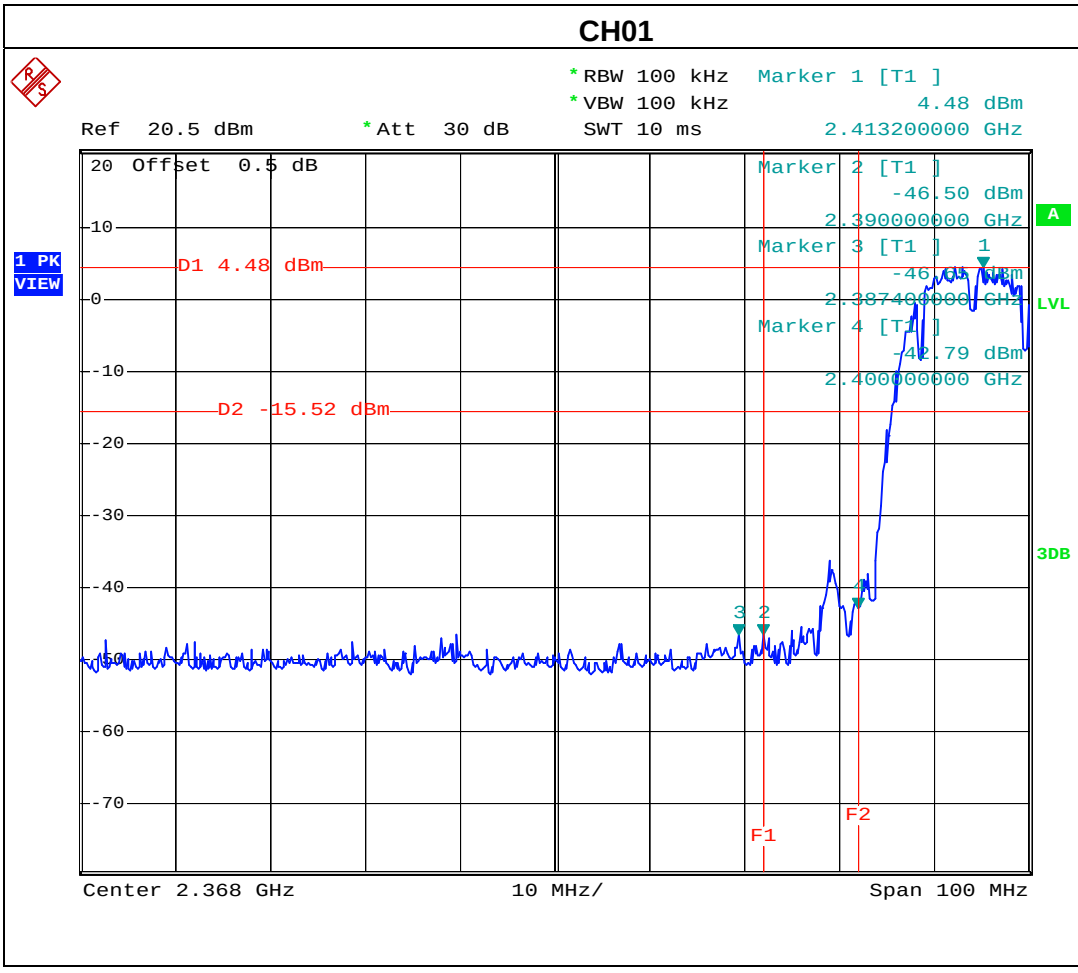
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.6 TEST RESULTS

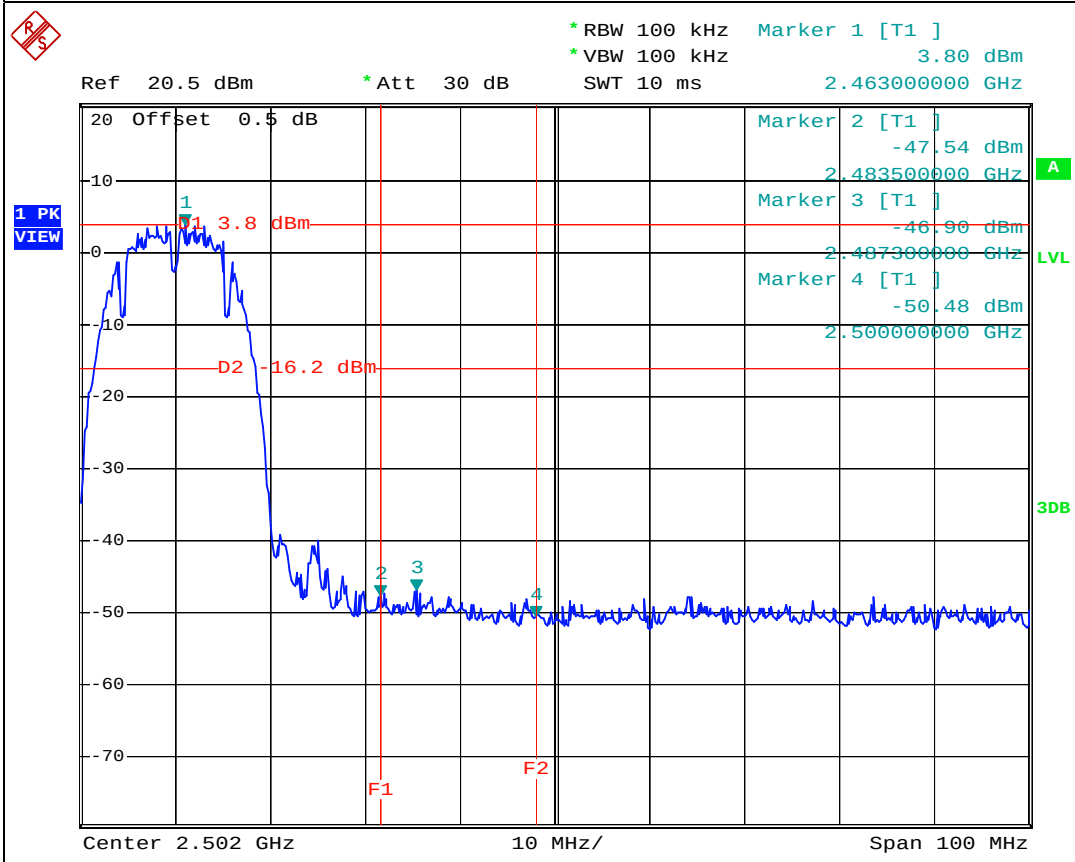
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH01, CH11		

Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2387.4	-46.65	2483.5	-47.54
Result			
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.			

CH01



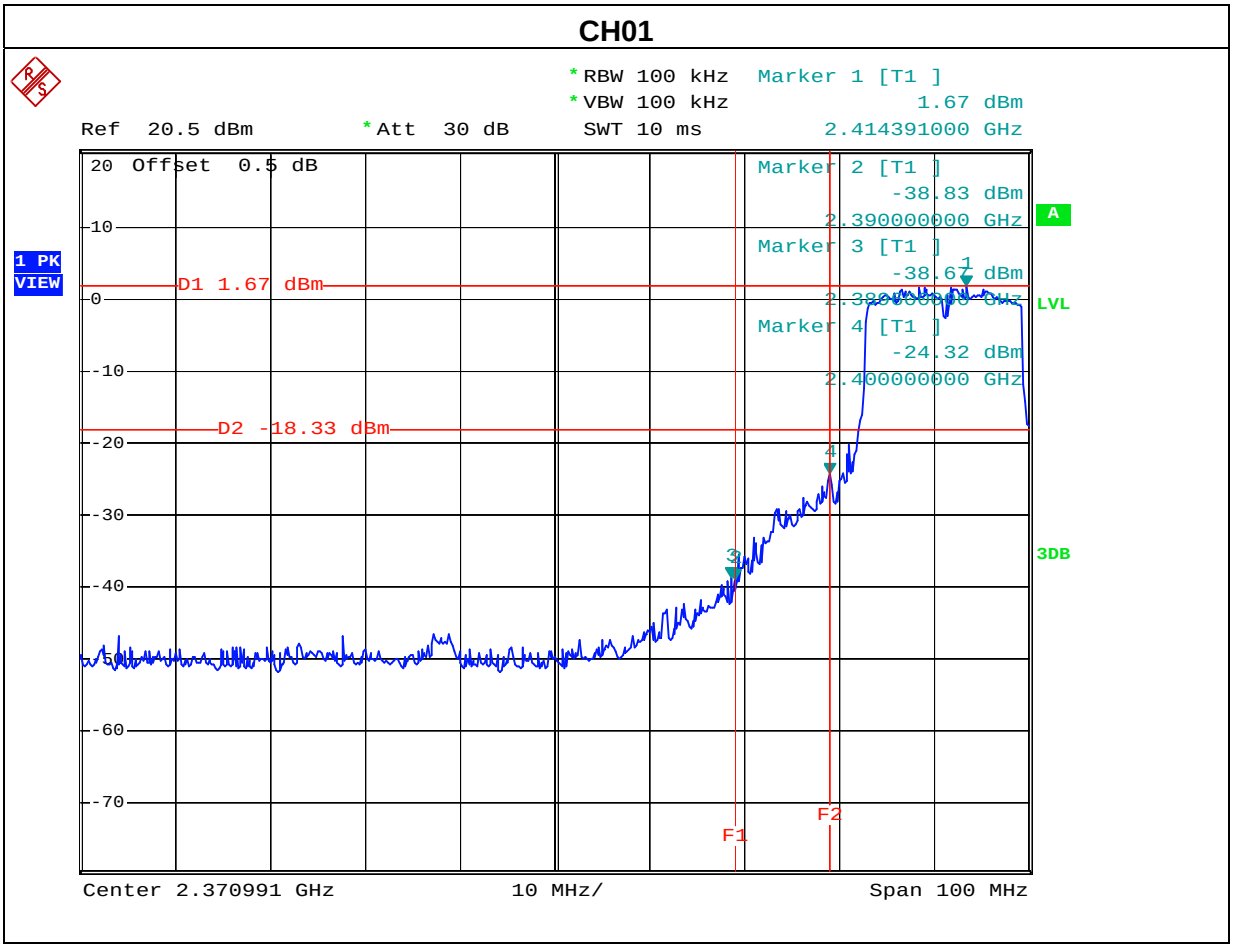
CH11


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Marker 1 [T1]
3.80 dBm
2.463000000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 2 [T1]
-47.54 dBm
2.483500000 GHz
Marker 3 [T1]
-46.90 dBm
2.487300000 GHz
Marker 4 [T1]
-50.48 dBm
2.500000000 GHz
1 PK
VIEW
D1 3.8 dBm
D2 -16.2 dBm
A
LVL
3DB
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz

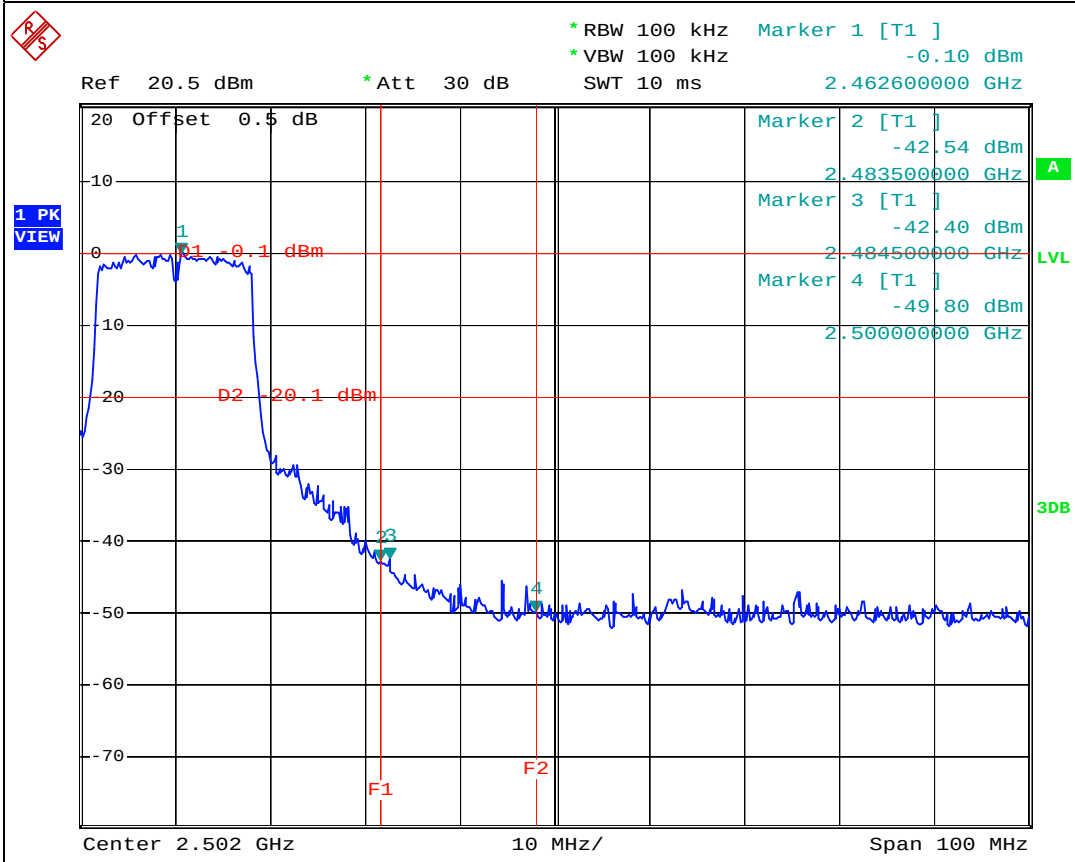
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g/CH01, CH11		

Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2389.6	-38.67	2484.5	-42.40
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



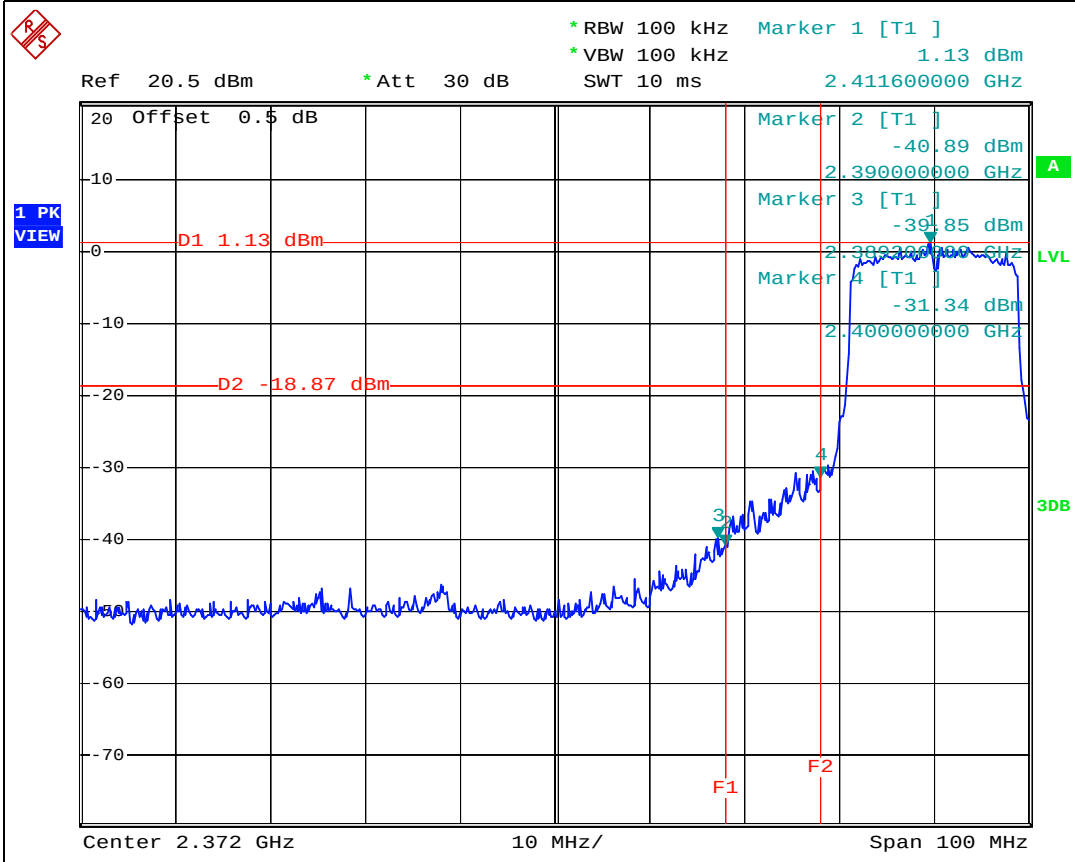
CH11


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Marker 1 [T1]
-0.10 dBm
2.462600000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 2 [T1]
-42.54 dBm
2.483500000 GHz
Marker 3 [T1]
-42.40 dBm
2.484500000 GHz
Marker 4 [T1]
-49.80 dBm
2.500000000 GHz
1 PK
VIEW
A
LVL
3DB
D1 -0.1 dBm
D2 -20.1 dBm
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz

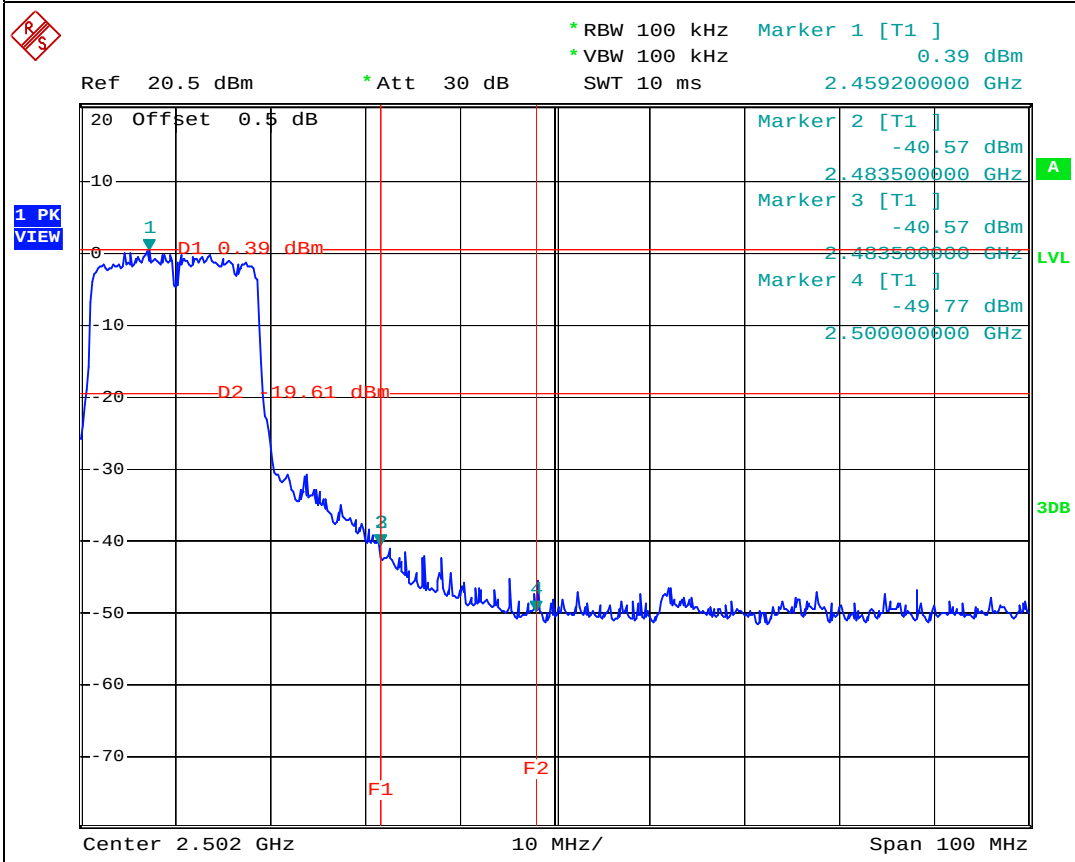
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH01, CH11		

Channel of Worst Data: CH1,CH11			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2389.2	-39.85	2483.5	-40.57
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



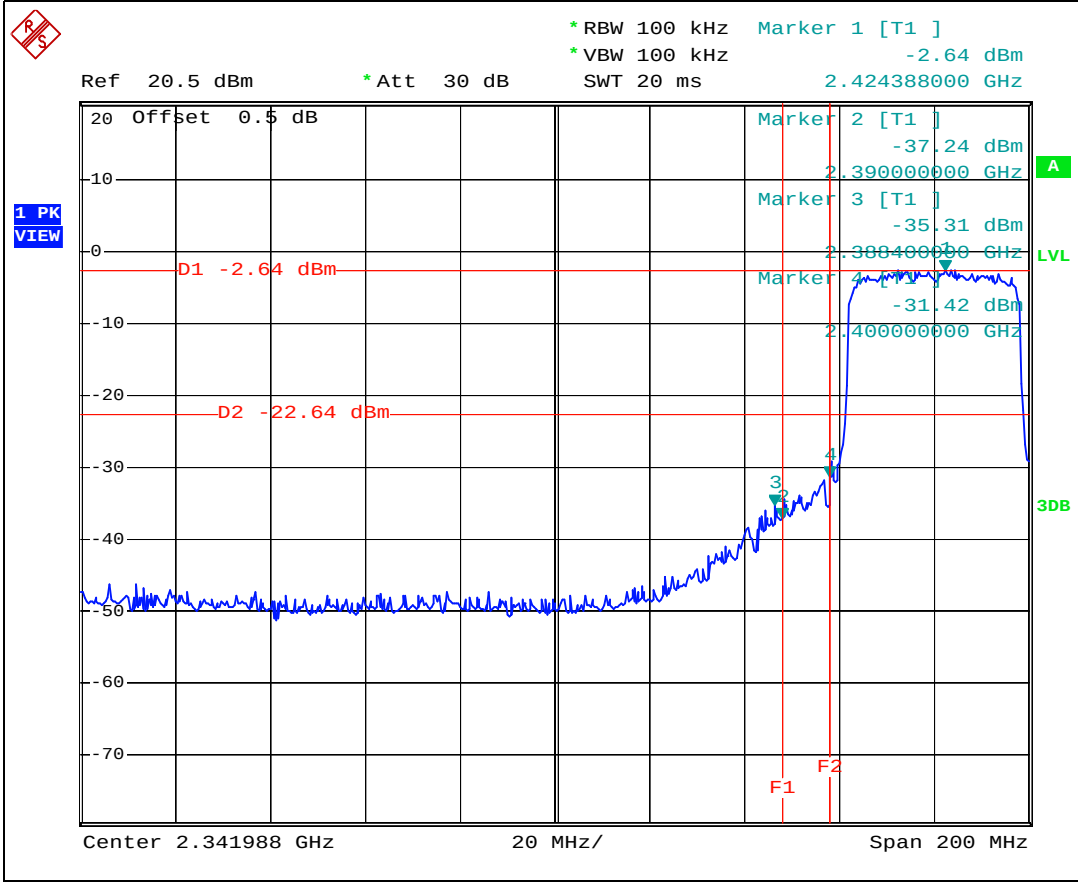
CH11


*RBW 100 kHz
*VBW 100 kHz
SWT 10 ms
Marker 1 [T1]
0.39 dBm
2.459200000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
Marker 2 [T1]
-40.57 dBm
2.483500000 GHz
Marker 3 [T1]
-40.57 dBm
2.483500000 GHz
Marker 4 [T1]
-49.77 dBm
2.500000000 GHz
1 PK
VIEW
A
LVL
3DB
D1 0.39 dBm
D2 -19.61 dBm
F1
F2
Center 2.502 GHz
10 MHz/
Span 100 MHz

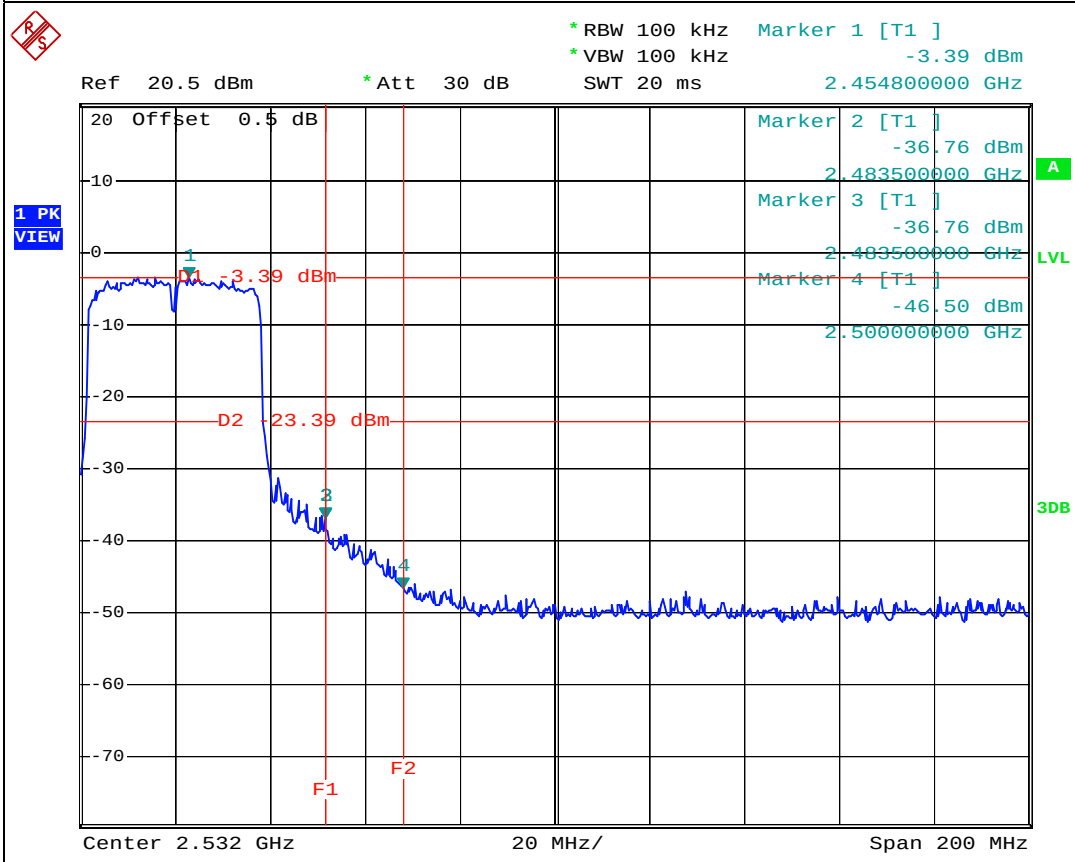
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH03, CH09		

Channel of Worst Data: CH03,CH09			
The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2388.4	-35.31	2483.5	-36.76
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.			

CH03



CH09


*RBW 100 kHz
*VBW 100 kHz
Ref 20.5 dBm
*Att 30 dB
SWT 20 ms
Marker 1 [T1]
-3.39 dBm
2.454800000 GHz
Marker 2 [T1]
-36.76 dBm
2.483500000 GHz
Marker 3 [T1]
-36.76 dBm
2.483500000 GHz
Marker 4 [T1]
-46.50 dBm
2.500000000 GHz
20 Offset 0.5 dB
1 PK
VIEW
A
LVL
3DB
D1 -3.39 dBm
D2 -23.39 dBm
F1
F2
Center 2.532 GHz
20 MHz/
Span 200 MHz

8. POWER SPECTRAL DENSITY TEST (FOR DSSS)

8.1 APPLIED PROCEDURES / LIMIT

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

8.1.1 MEASUREMENT INSTRUMENTS LIST

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

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

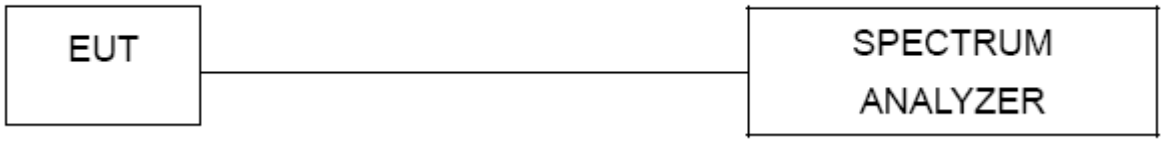
8.1.2 TEST PROCEDURE

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

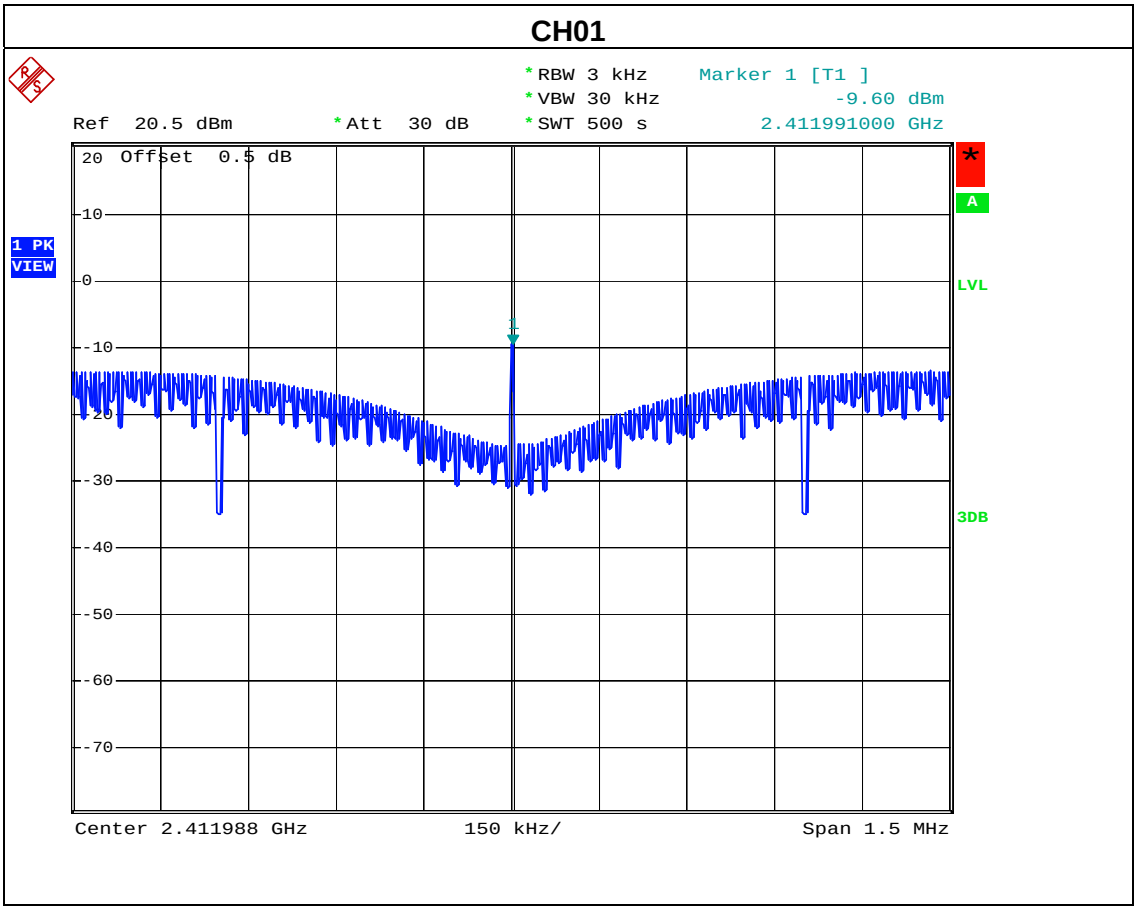
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

8.1.6 TEST RESULTS

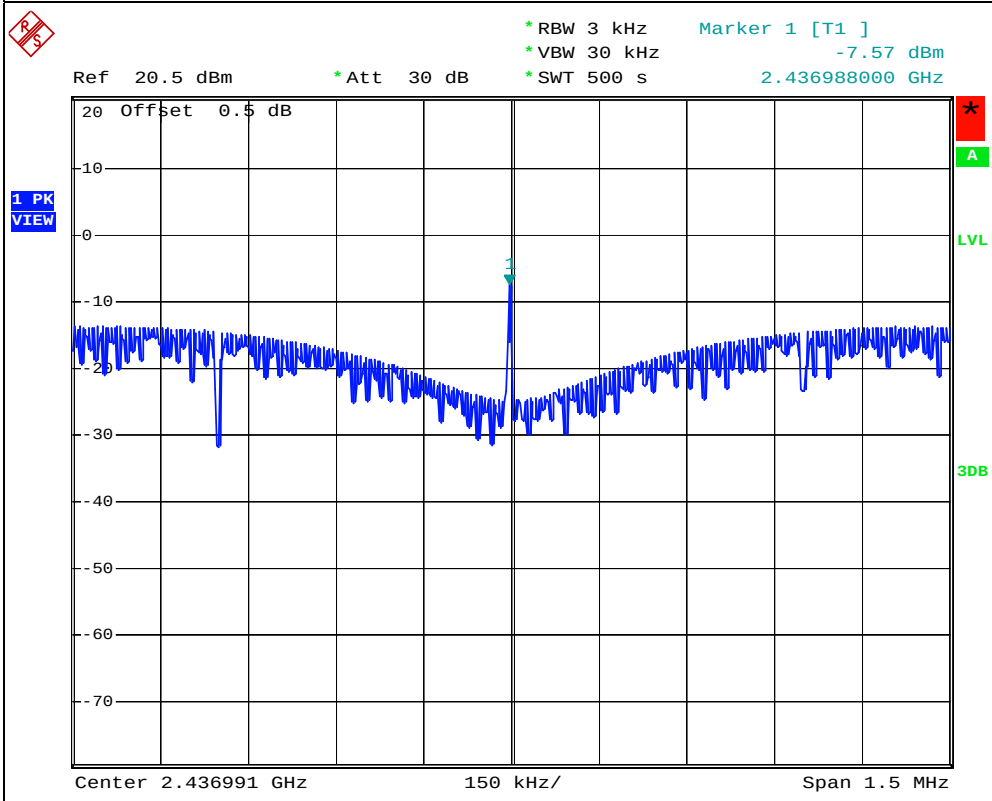
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-9.60	8
CH06	2437	-7.57	8
CH11	2462	-7.86	8

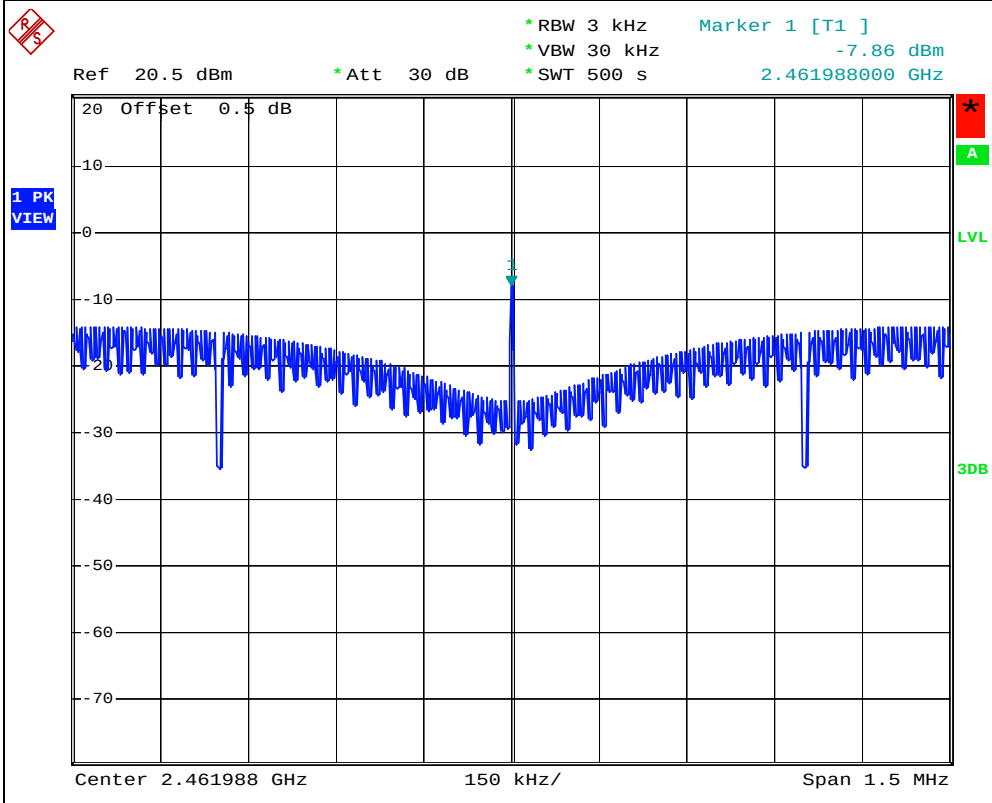
CH01



CH06


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-7.57 dBm
2.436988000 GHz
Ref 20.5 dBm
*Att 30 dB
Offset 0.5 dB
1 PK VIEW
A
LVL
3DB
Center 2.436991 GHz
150 kHz/
Span 1.5 MHz

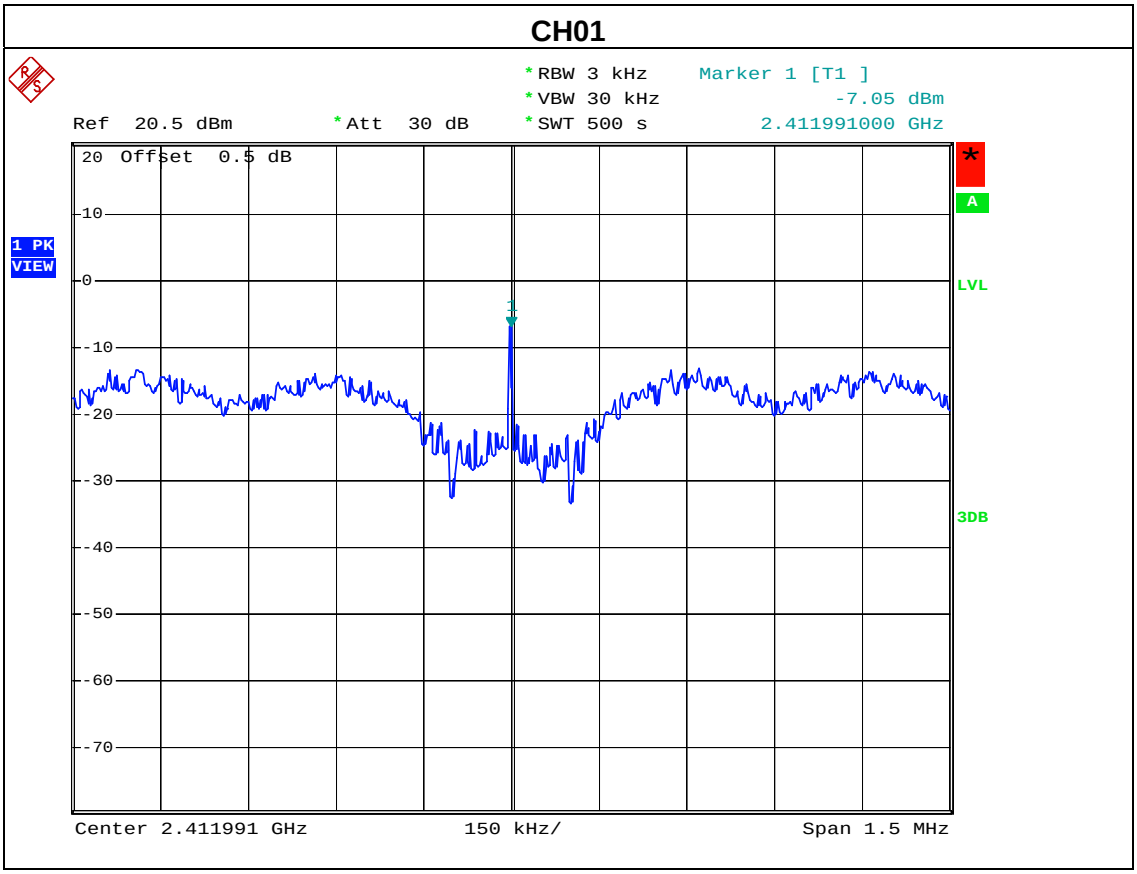
CH11


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-7.86 dBm
2.461988000 GHz
Ref 20.5 dBm
*Att 30 dB
Offset 0.5 dB
1 PK VIEW
A
LVL
3DB
Center 2.461988 GHz
150 kHz/
Span 1.5 MHz

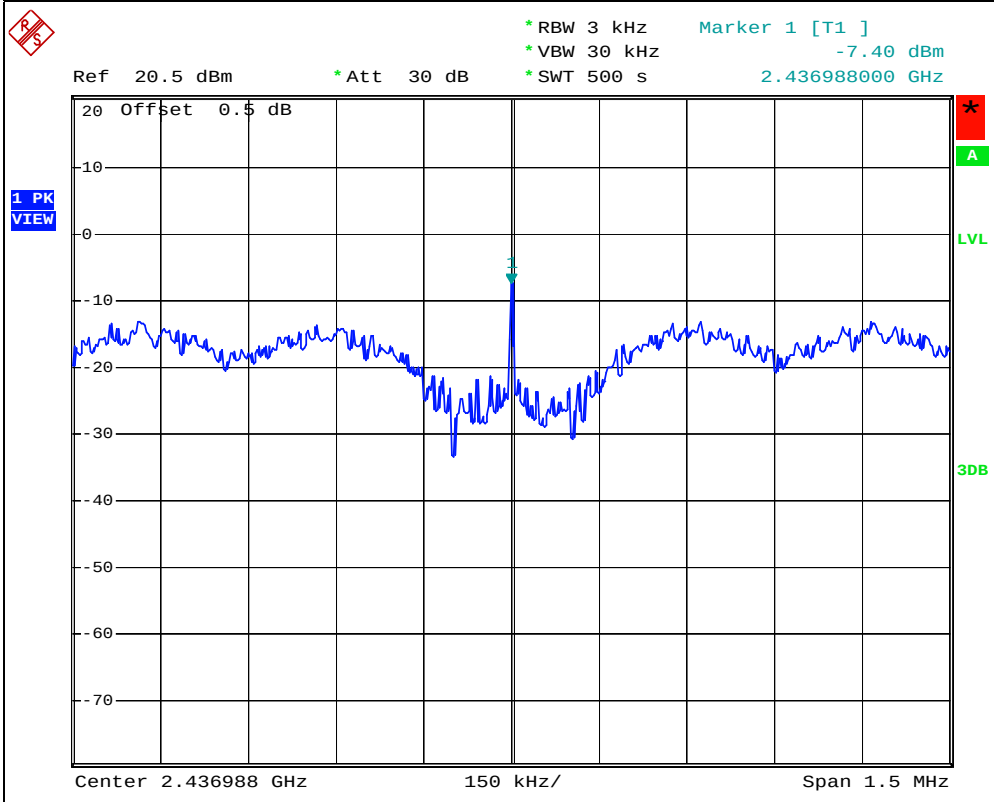
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-7.05	8
CH06	2437	-7.40	8
CH11	2462	-8.52	8

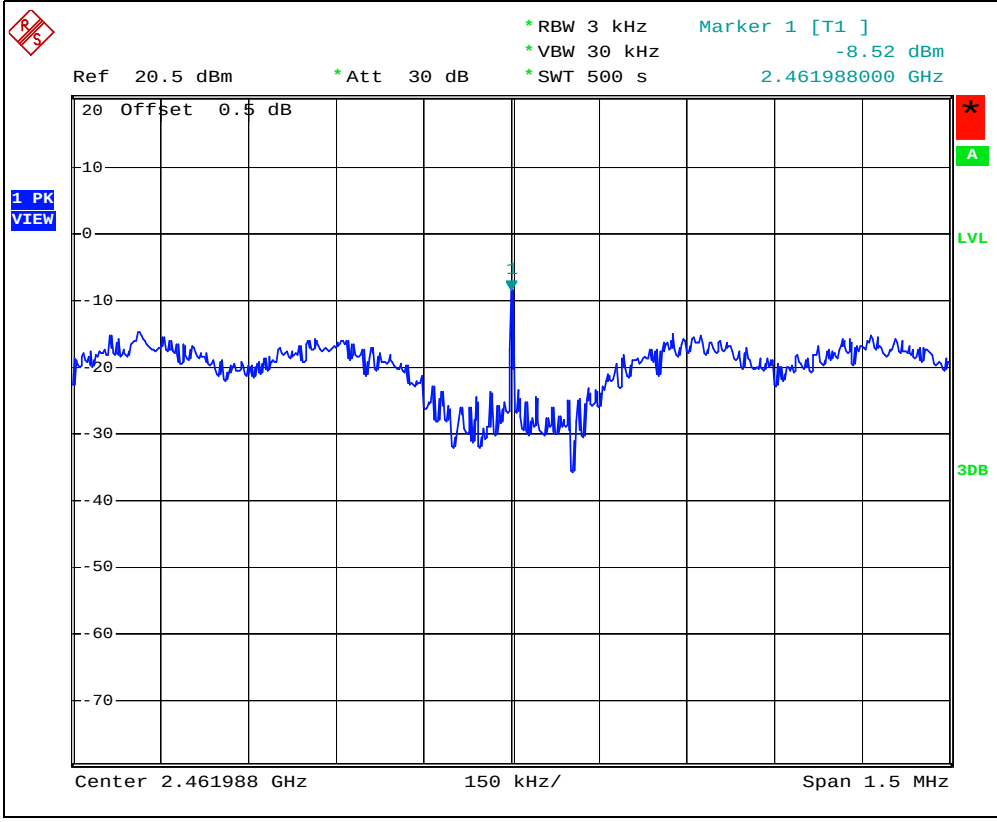
CH01



CH06


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-7.40 dBm
2.436988000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
1 PK VIEW
A
LVL
3DB
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.436988 GHz
150 kHz/
Span 1.5 MHz

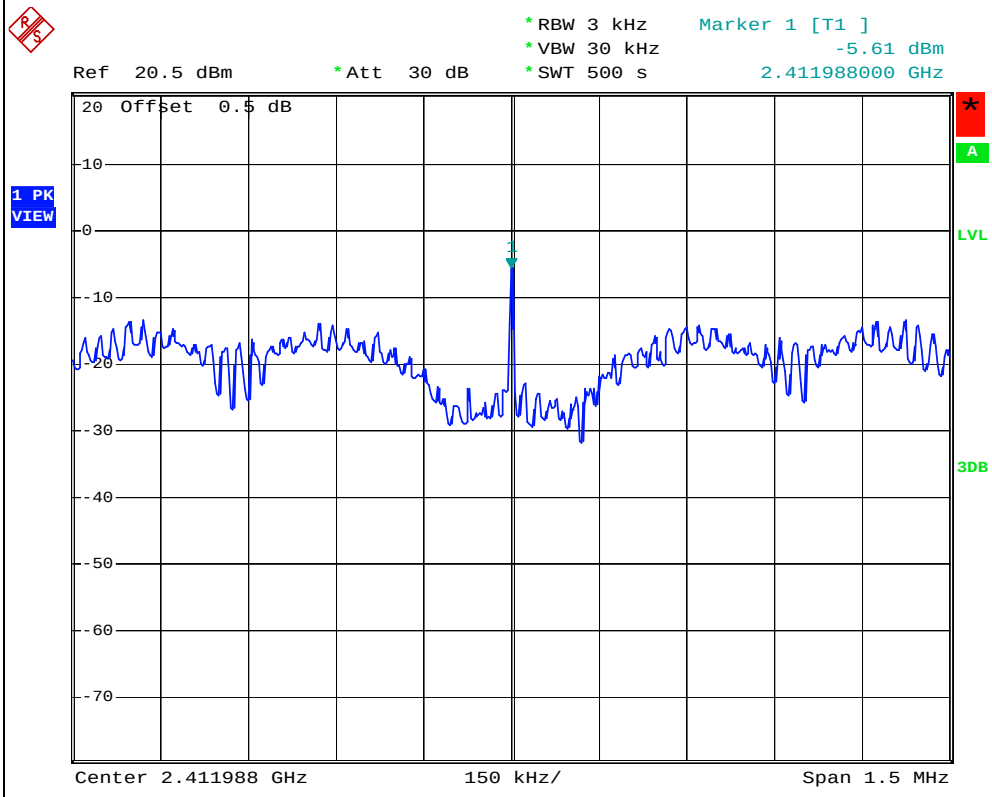
CH11


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-8.52 dBm
2.461988000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
1 PK VIEW
A
LVL
3DB
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.461988 GHz
150 kHz/
Span 1.5 MHz

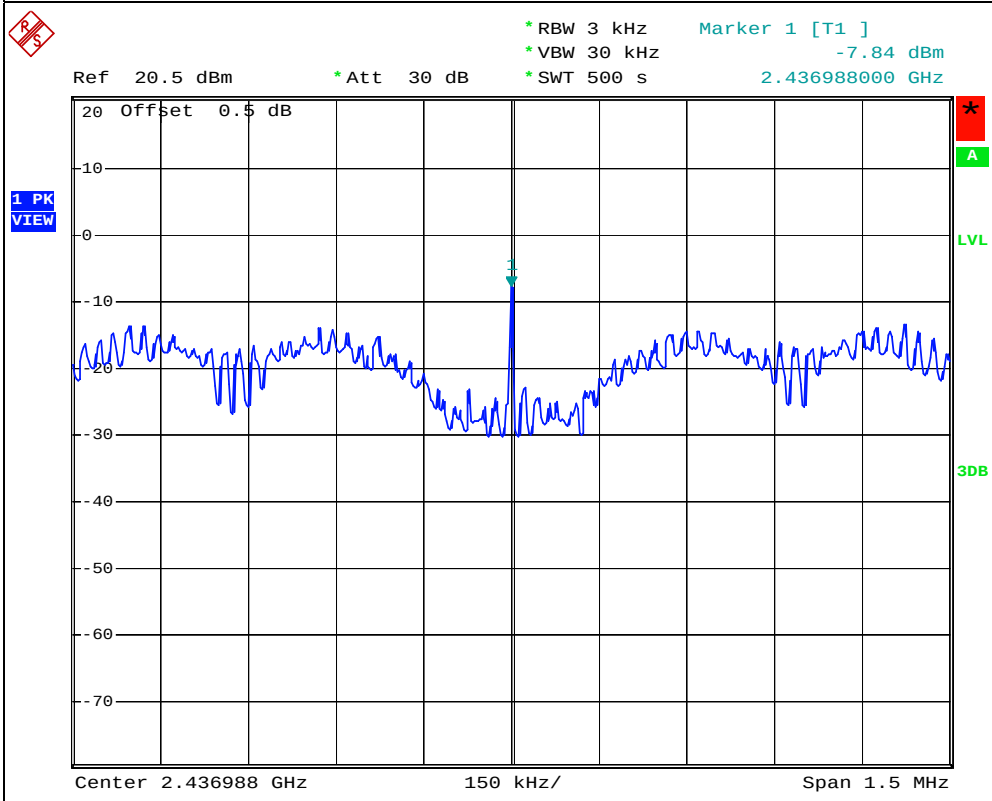
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/20M/CH01, CH06, CH11		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH01	2412	-5.61	8
CH06	2437	-7.84	8
CH11	2462	-8.58	8

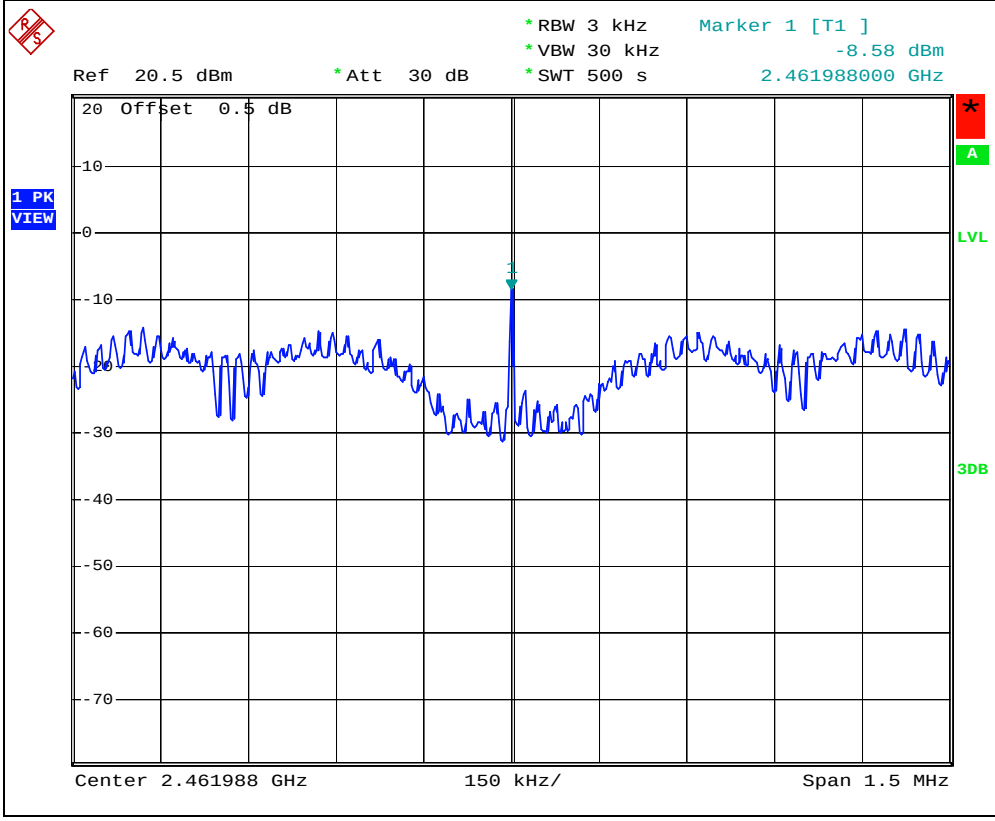
CH01



CH06


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-7.84 dBm
2.436988000 GHz
Ref 20.5 dBm
*Att 30 dB
Offset 0.5 dB
1 PK VIEW
A
LVL
3DB
Center 2.436988 GHz
150 kHz/
Span 1.5 MHz

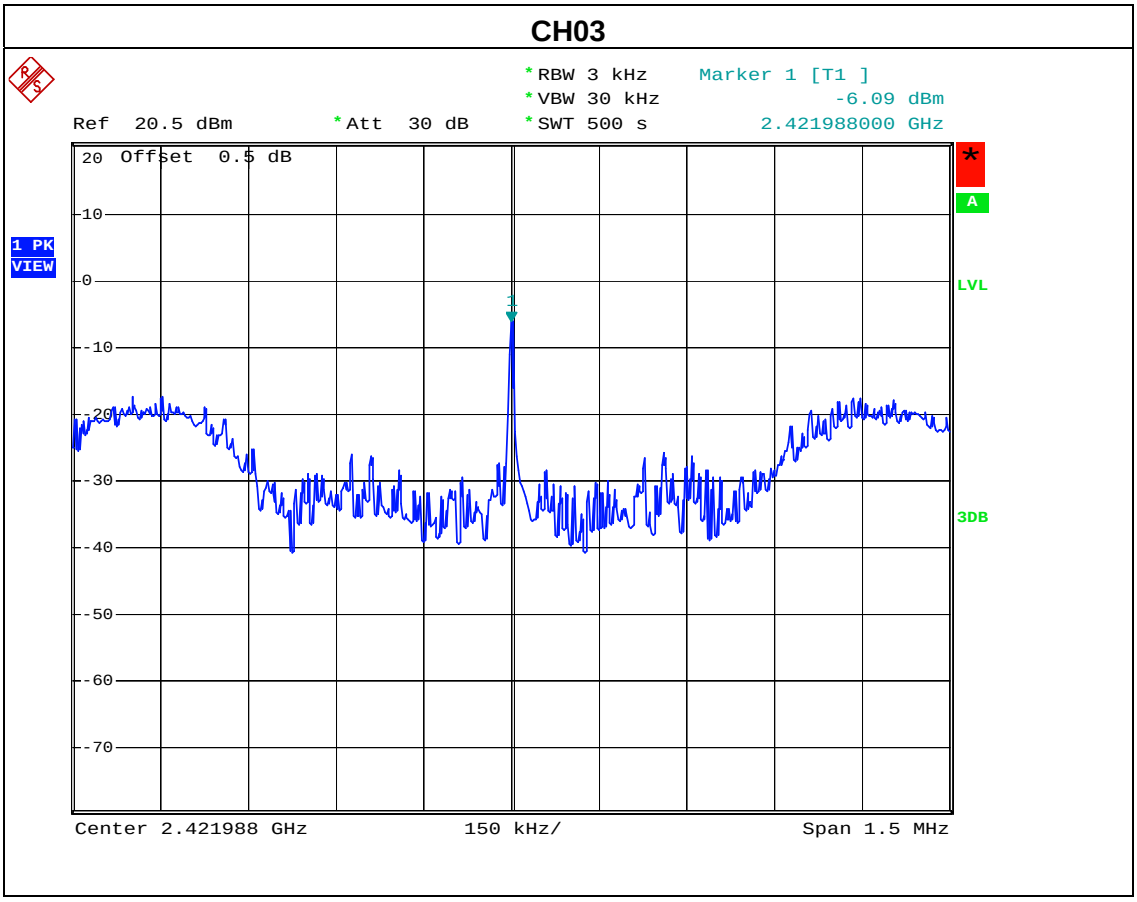
CH11


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-8.58 dBm
2.461988000 GHz
Ref 20.5 dBm
*Att 30 dB
Offset 0.5 dB
1 PK VIEW
A
LVL
3DB
Center 2.461988 GHz
150 kHz/
Span 1.5 MHz

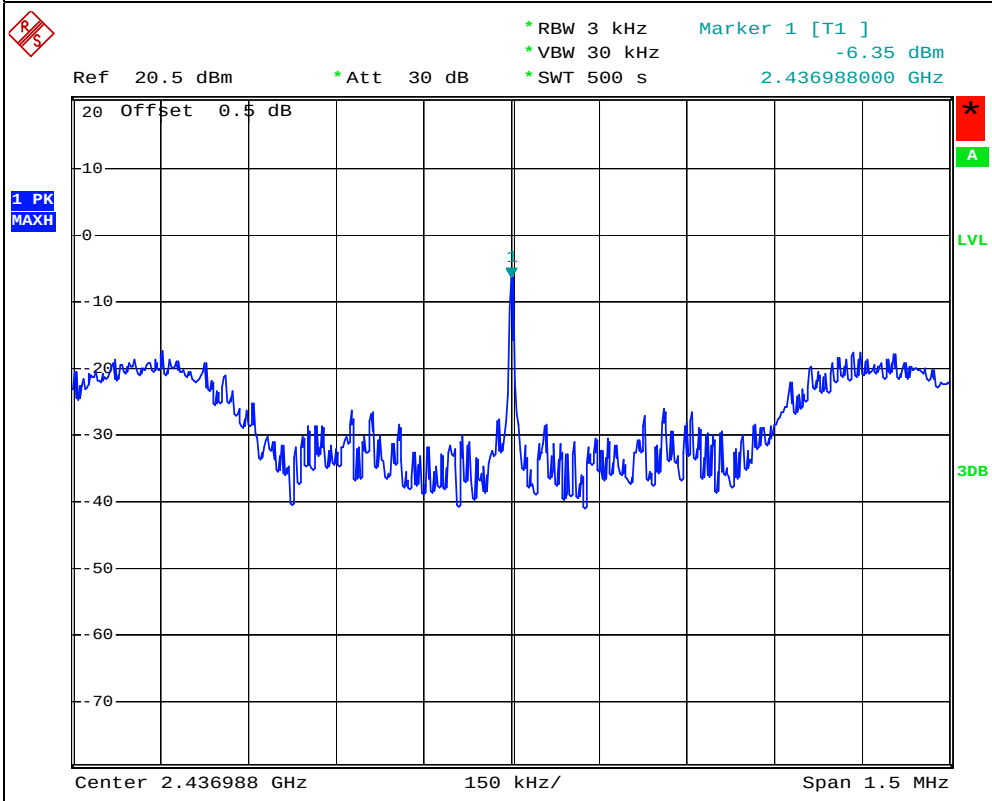
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n/40M/CH03, CH06, CH09		

Test Channel	Frequency (MHz)	Power Density (dBm)	LIMIT (dBm)
CH03	2422	-6.09	8
CH06	2437	-6.35	8
CH09	2452	-6.85	8

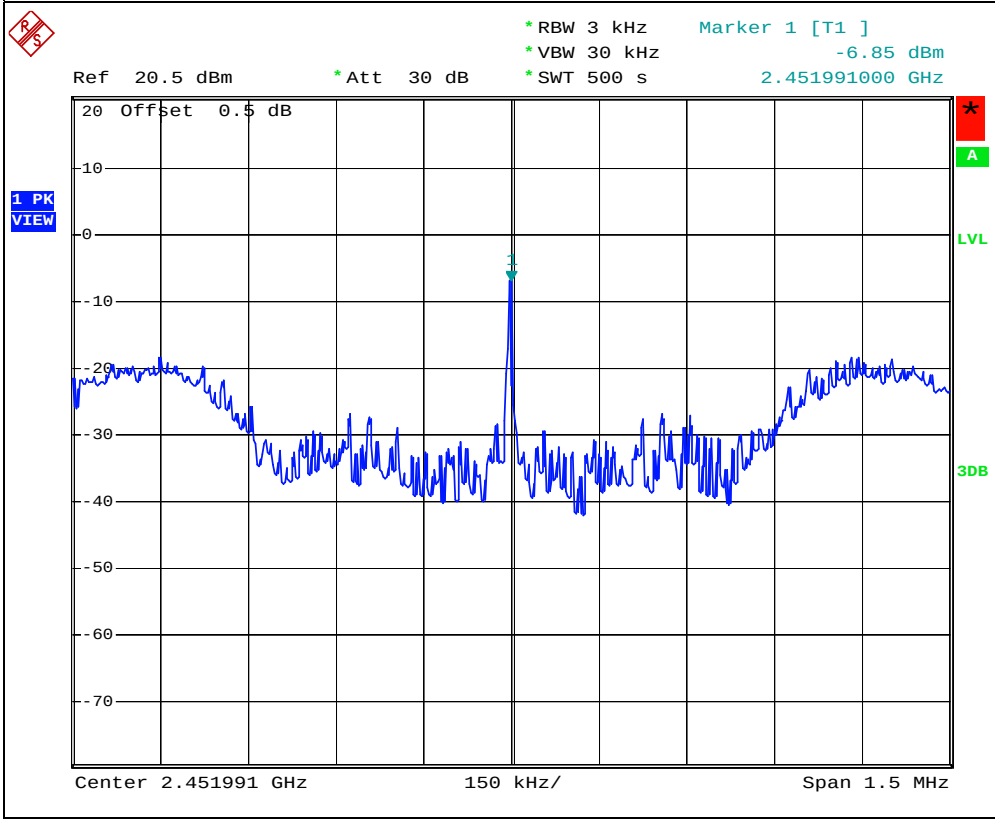
CH03



CH06


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-6.35 dBm
2.436988000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
1 PK
MAXH
A
LVL
3DB
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.436988 GHz
150 kHz/
Span 1.5 MHz

CH09


*RBW 3 kHz
*VBW 30 kHz
*SWT 500 s
Marker 1 [T1]
-6.85 dBm
2.451991000 GHz
Ref 20.5 dBm
*Att 30 dB
20 Offset 0.5 dB
1 PK
VIEW
A
LVL
3DB
10
0
-10
-20
-30
-40
-50
-60
-70
Center 2.451991 GHz
150 kHz/
Span 1.5 MHz

9. EMC EMISSION TEST (FOR FHSS)

9.1 CONDUCTED EMISSION MEASUREMENT

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

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

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

9.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Test Cable	N/A	C01	N/A	Oct. 9, 2009
2	LISN (SR03)	EMCO	3816/2	00042991	Jan. 29, 2009
3	Pulse Limiter	Electro-Metrics	EM-7600	112644	Nov. 26, 2009
4	50Ω Terminator	N/A	N/A	N/A	May. 13, 2009
5	EMI Test Receiver	R&S	ESCI	100082	Feb. 23, 2009
6	LISN	EMCO	4825/2	00028234	Jul. 09, 2009

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

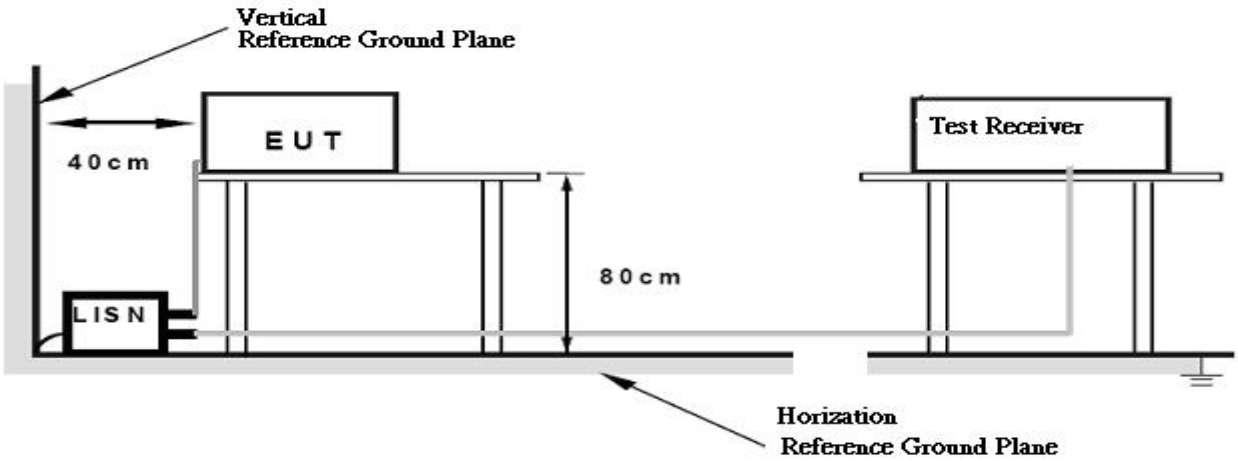
9.1.3 TEST PROCEDURE

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

9.1.4 DEVIATION FROM TEST STANDARD

No deviation

9.1.5 TEST SETUP



9.1.6 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.

9.1.7 TEST RESULTS

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	26°C	Relative Humidity：	56%
Pressure：	1011 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	CH39		

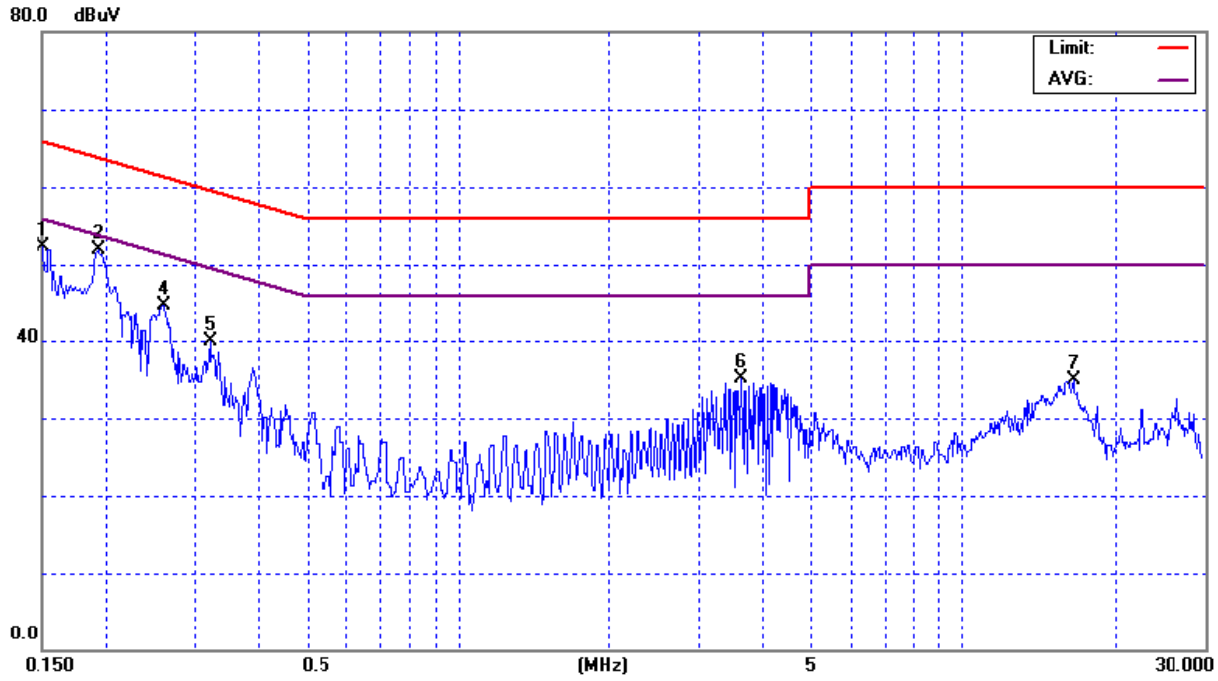
Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Line	52.33	*	66.00	56.00	-13.67	(QP)
0.19	Line	51.97	36.57	63.89	53.89	-11.92	(QP)
0.26	Line	44.66	*	61.46	51.46	-16.80	(QP)
0.32	Line	39.98	*	59.67	49.67	-19.69	(QP)
3.64	Line	35.17	*	56.00	46.00	-20.83	(QP)
16.55	Line	34.83	*	60.00	50.00	-25.17	(QP)

Remark

(1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz；SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz。Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz。

(2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform。In this case, a " * " marked in AVG Mode column of Interference Voltage Measured。

(3) Measuring frequency range from 150KHz to 30MHz。



EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	26°C	Relative Humidity：	56%
Pressure：	1011 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	CH39		

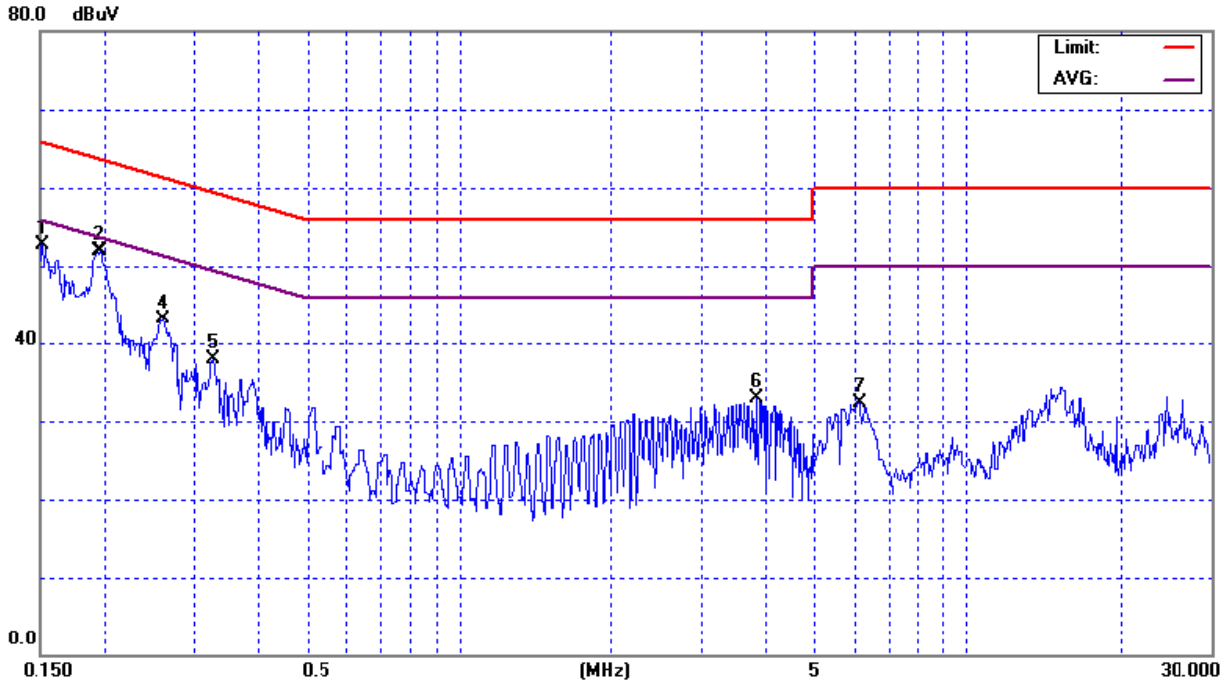
Freq. (MHz)	Terminal L/N	Measured(dBuV)		Limits(dBuV)		Margin (dB)	Note
		QP-Mode	AV-Mode	QP-Mode	AV-Mode		
0.15	Neutral	52.71	*	65.92	55.92	-13.21	(QP)
0.20	Neutral	51.97	37.34	63.80	53.80	-11.83	(QP)
0.26	Neutral	43.02	*	61.56	51.56	-18.54	(QP)
0.33	Neutral	37.87	*	59.56	49.56	-21.69	(QP)
3.84	Neutral	32.87	*	56.00	46.00	-23.13	(QP)
6.10	Neutral	32.38	*	60.00	50.00	-27.62	(QP)

Remark

(1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9KHz；SPA setting in RBW=10KHz,VBW =10KHz, Swp. Time = 0.3 sec./MHz。Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=1MHz,VBW=10Hz, Swp. Time =0.3 sec./MHz。

(2) All readings are QP Mode value unless otherwise stated AVG in column of『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform。In this case, a " * " marked in AVG Mode column of Interference Voltage Measured。

(3) Measuring frequency range from 150KHz to 30MHz。



9.2 RADIATED EMISSION MEASUREMENT

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

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class A (dBuV/m) (at 3m)		Class B (dBuV/m) (at 3m)	
	PEAK	AVERAGE	PEAK	AVERAGE
Above 1000	80	60	74	54

Notes:

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

(2) The tighter limit applies at the band edges.

(3) Emission level (dBuV/m)=20log Emission level (uV/m).

9.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Log-Bicon Antenna	Schwarzbeck	VULB 9160	3176	Jul. 01, 2009
2	Test Cable	N/A	10M_OS01	N/A	Oct. 20, 2009
3	Test Cable	N/A	OS01-1/-2	N/A	Oct. 09, 2009
4	Pre-Amplifier	Anritsu	MH648A(OS01)	M09961	Oct. 09, 2009
5	Antenna Mast	Chance Most	CMTB-1.5	N/A	N/A
6	Turn Table	Chance Most	CMTB-1.5	N/A	N/A
7	EMI Test Receiver	R&S	ESCI	100080	Mar. 08, 2009
8	Spectrum Analyzer	R&S	FSP-30	100854	Apr. 14, 2009
9	Horn Antenna	Schwarzbeck	BBHA-9120	D546	Aug. 17, 2009
10	Microwave Pre_amplifier	Agilent	8449B	3008A02331	Apr. 23, 2009
11	Microflex Cable	NA	NA	1m	Aug. 15, 2009
12	Microflex Cable	NA	NA	10M	Feb. 20, 2009

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

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average
RB / VB (other emission)	100KHz / 100KHz for peak

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

9.2.3 TEST PROCEDURE

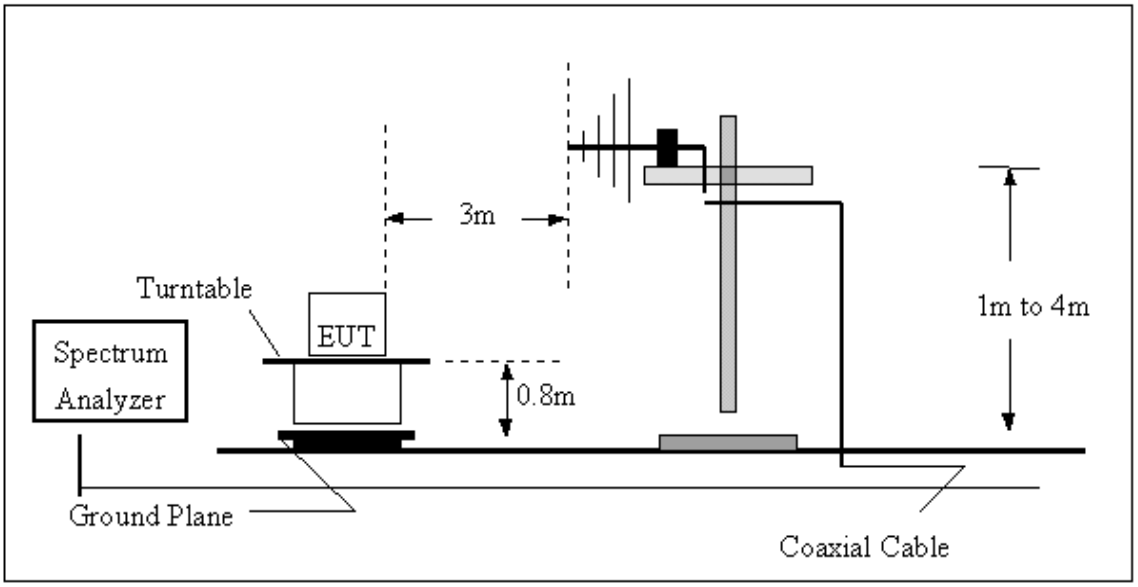
a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated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

9.2.4 DEVIATION FROM TEST STANDARD

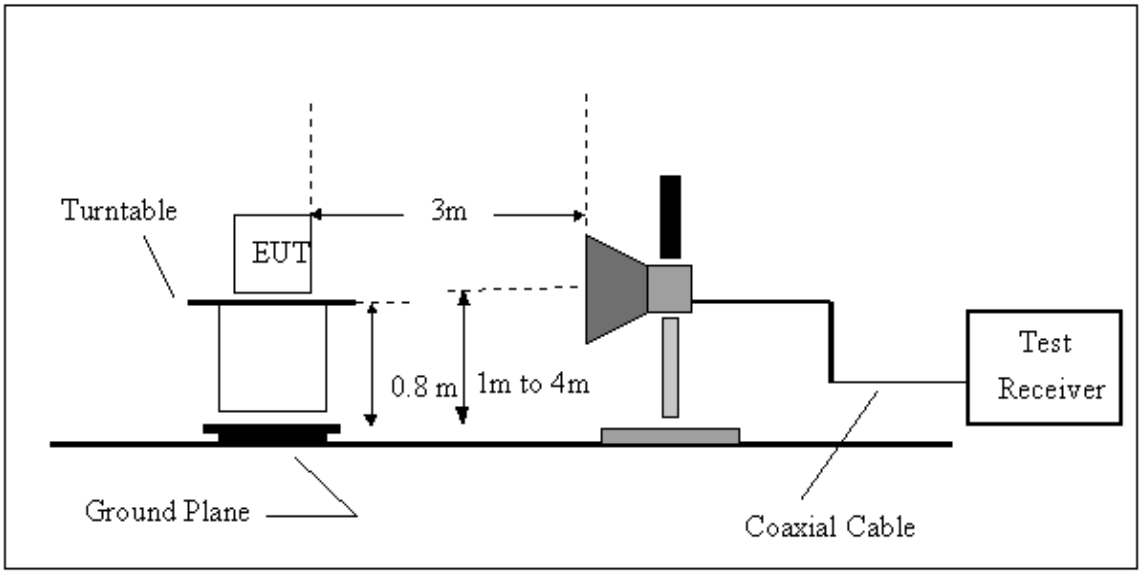
No deviation

9.2.5 TEST SETUP

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



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



9.2.6 EUT OPERATING CONDITIONS

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

9.2.7 TEST RESULTS (BETWEEN30 – 1000 MHz)

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	22℃	Relative Humidity：	62%
Pressure：	1017 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH39	EUT Orthogonal Axis：	Y

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
251.16	V	41.57	-9.24	32.33	46.00	- 13.67	
276.38	V	44.00	-8.42	35.58	46.00	- 10.42	
301.60	V	49.34	-7.72	41.62	46.00	- 4.38	
353.98	V	41.95	-6.30	35.65	46.00	- 10.35	
429.64	V	41.01	-4.38	36.63	46.00	- 9.37	
530.52	V	35.36	-2.37	32.99	46.00	- 13.01	

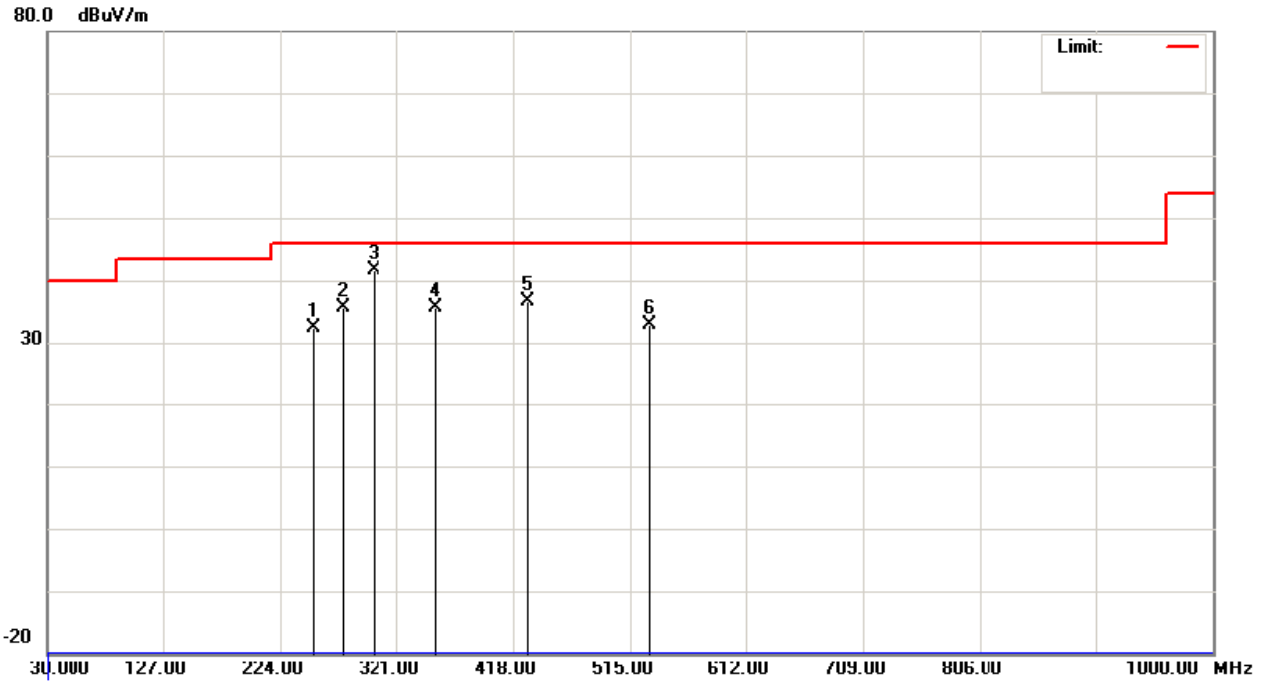
Remark：

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

(2) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission 。

(4) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	22℃	Relative Humidity：	62%
Pressure：	1017 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH39	EUT Orthogonal Axis：	Y

Freq. (MHz)	Ant. H/V	Reading(RA) (dBuV)	Corr.Factor(CF) (dB)	Measured(FS) (dBuV/m)	Limits(QP) (dBuV/m)	Margin (dB)	Note
229.82	H	37.91	-10.05	27.86	46.00	- 18.14	(QP)
301.60	H	42.16	-7.72	34.44	46.00	- 11.56	(QP)
353.98	H	39.88	-6.30	33.58	46.00	- 12.42	(QP)
377.26	H	38.55	-5.78	32.77	46.00	- 13.23	(QP)
429.64	H	37.71	-4.38	33.33	46.00	- 12.67	(QP)
480.08	H	35.34	-3.19	32.15	46.00	- 13.85	(QP)

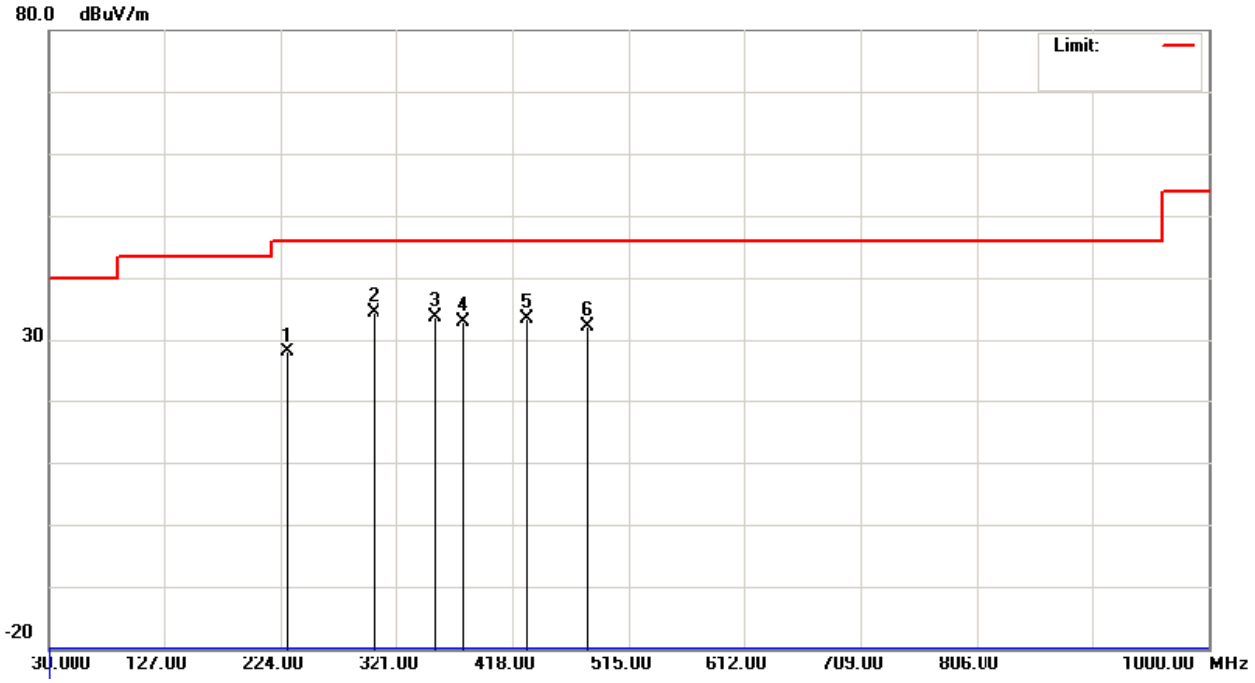
Remark：

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

(2) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission 。

(4) Data of measurement within this frequency range shown " - " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



9.2.8 TEST RESULTS (ABOVE 1000 MHz)

EUT：	Notebook Computer	Model Name ：	NL**
Temperature：	25℃	Relative Humidity：	68%
Pressure：	1009 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH00	EUT Orthogonal Axis：	Y

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	22.21	12.16	32.90	55.11	45.06	74.00	54.00	Y/H
2402.00	V	55.11	51.47	30.94	86.05	82.41			Y/F
4804.75	V	43.14	31.75	0.84	43.98	32.59	74.00	54.00	Y/H

Remark：

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

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

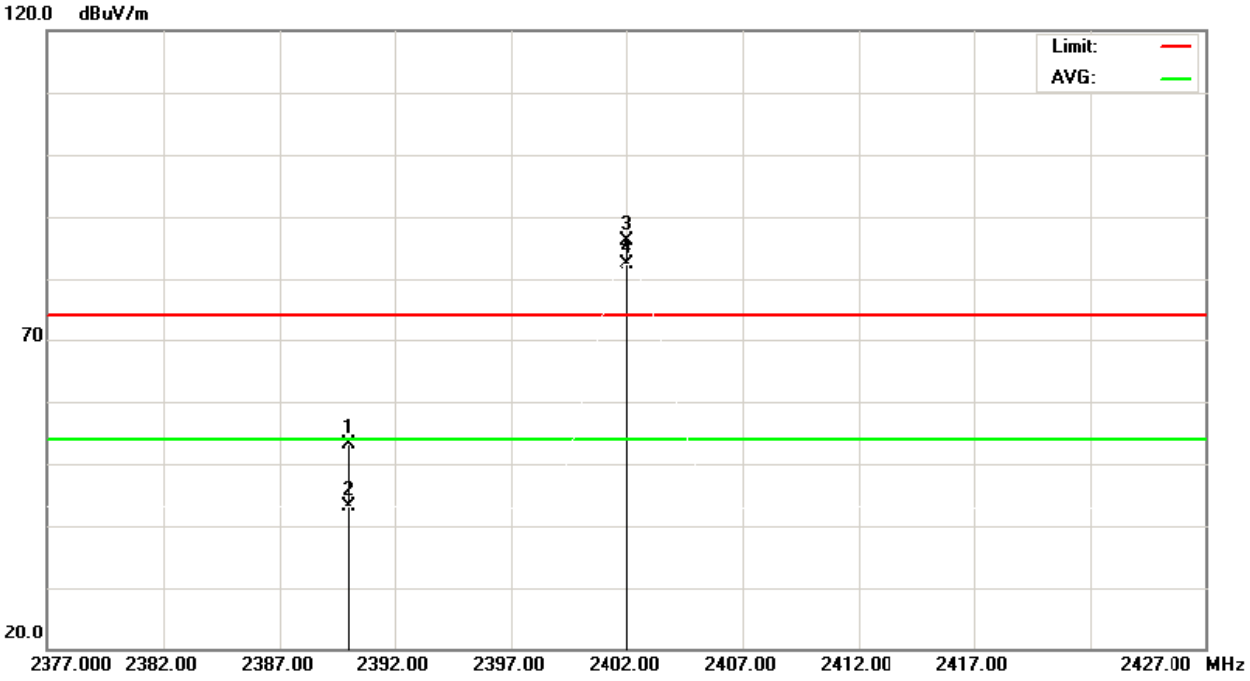
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

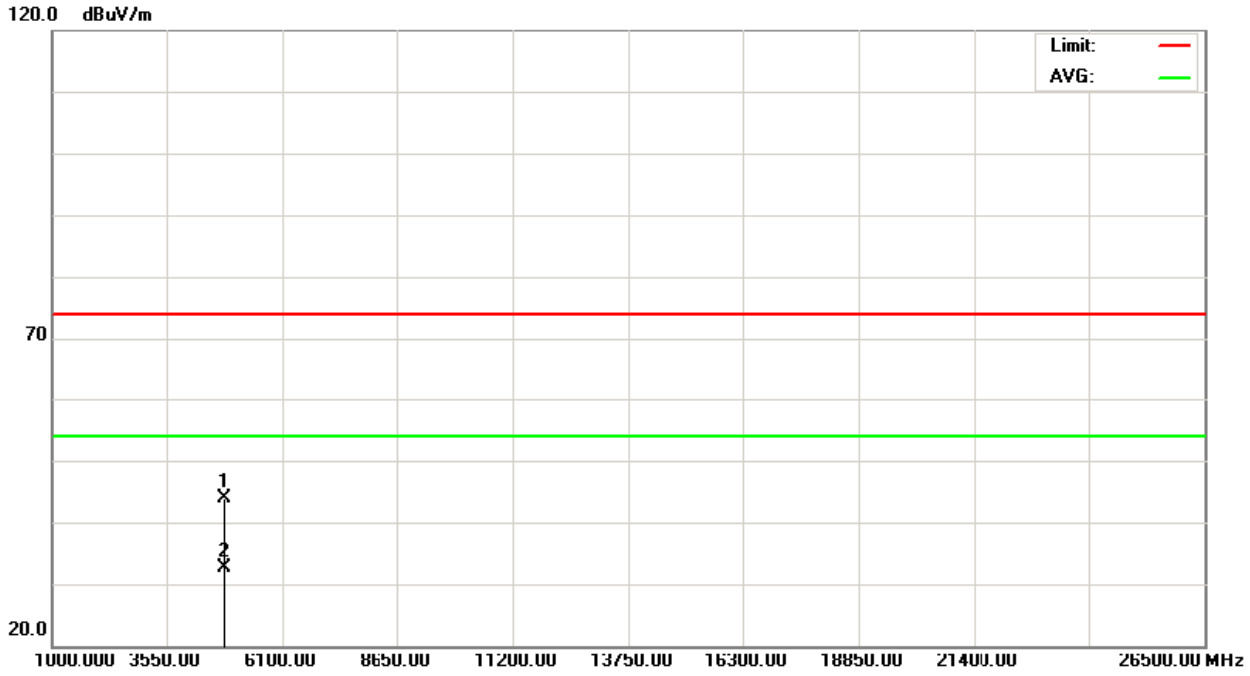
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Orthogonal Axis：Y
CH00(Above 1000 MHz, Vertical)





EUT：	Notebook Computer	Model Name ：	NL**
Temperature：	25℃	Relative Humidity：	68%
Pressure：	1009 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH00	EUT Orthogonal Axis：	Y

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	21.49	11.83	30.90	52.39	42.73	74.00	54.00	Y/H
2402.00	H	55.47	51.69	30.94	86.41	82.63			Y/F
4804.18	H	43.11	32.38	0.85	43.96	33.23	74.00	54.00	Y/H

Remark：

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

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

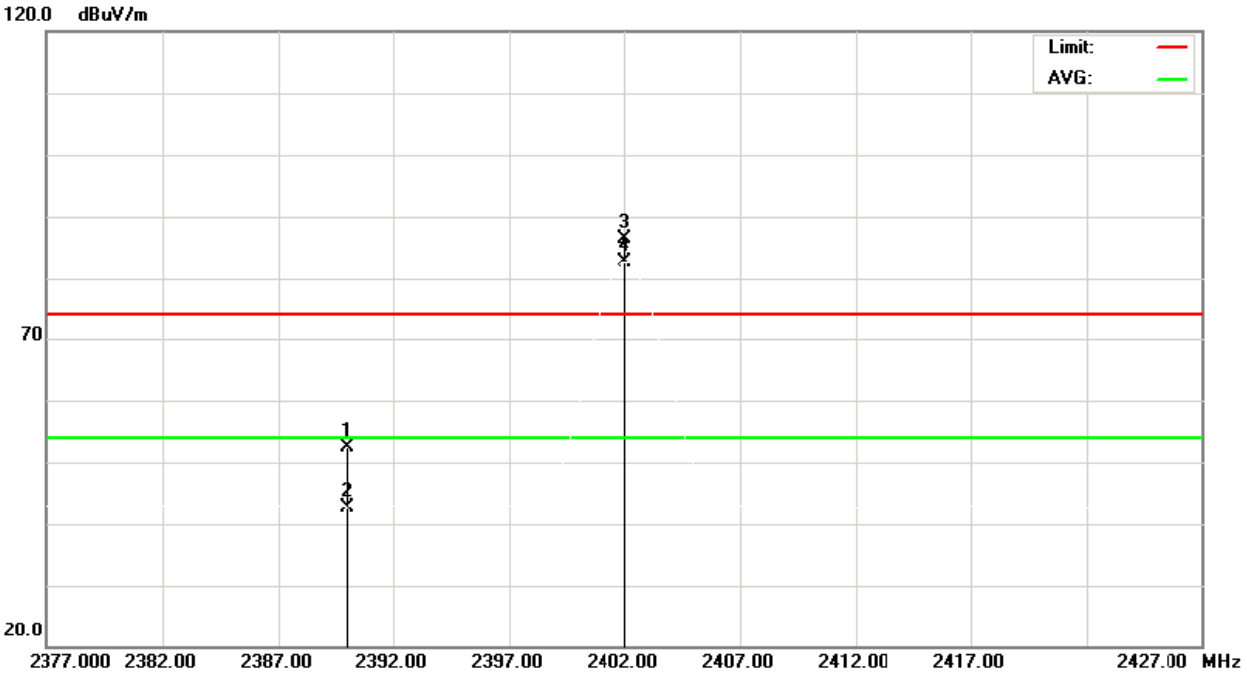
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

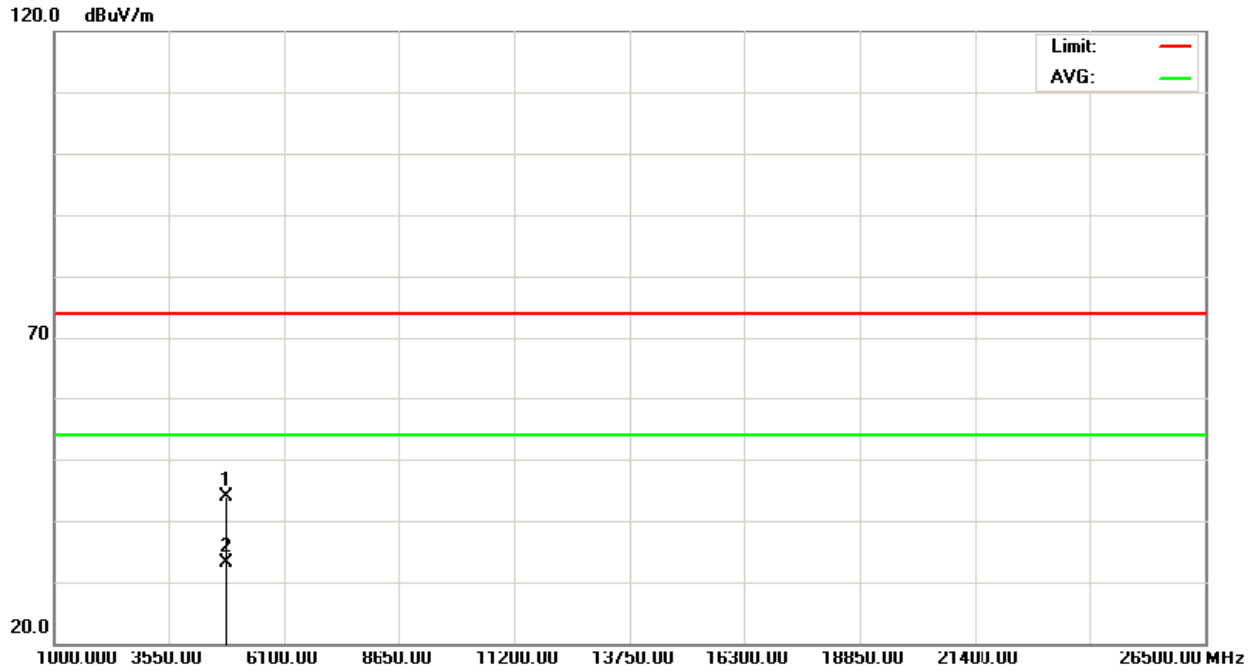
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Orthogonal Axis：Y
CH00(Above 1000 MHz, Horizontal)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	25℃	Relative Humidity：	68%
Pressure：	1009 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH39	EUT Orthogonal Axis：	Y

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.00	V	55.68	52.20	31.07	86.75	83.27			Y/F
4881.90	V	43.08	31.59	1.18	44.26	32.77	74.00	54.00	Y/H

Remark：

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

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

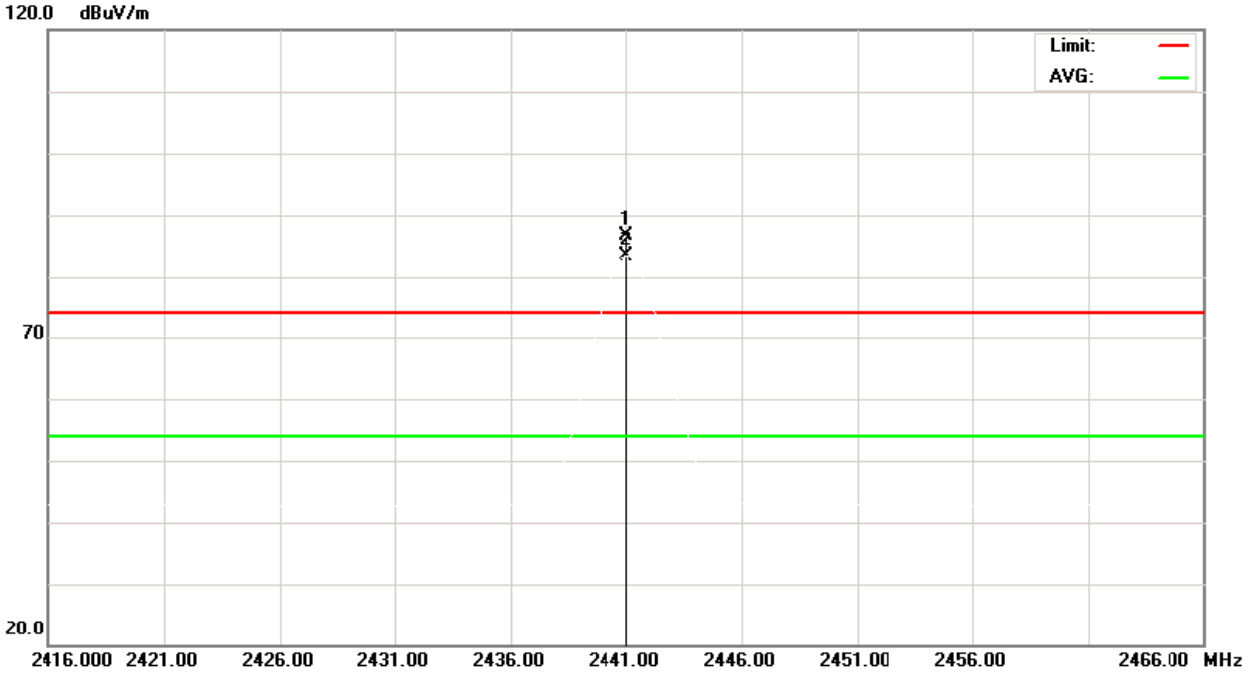
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

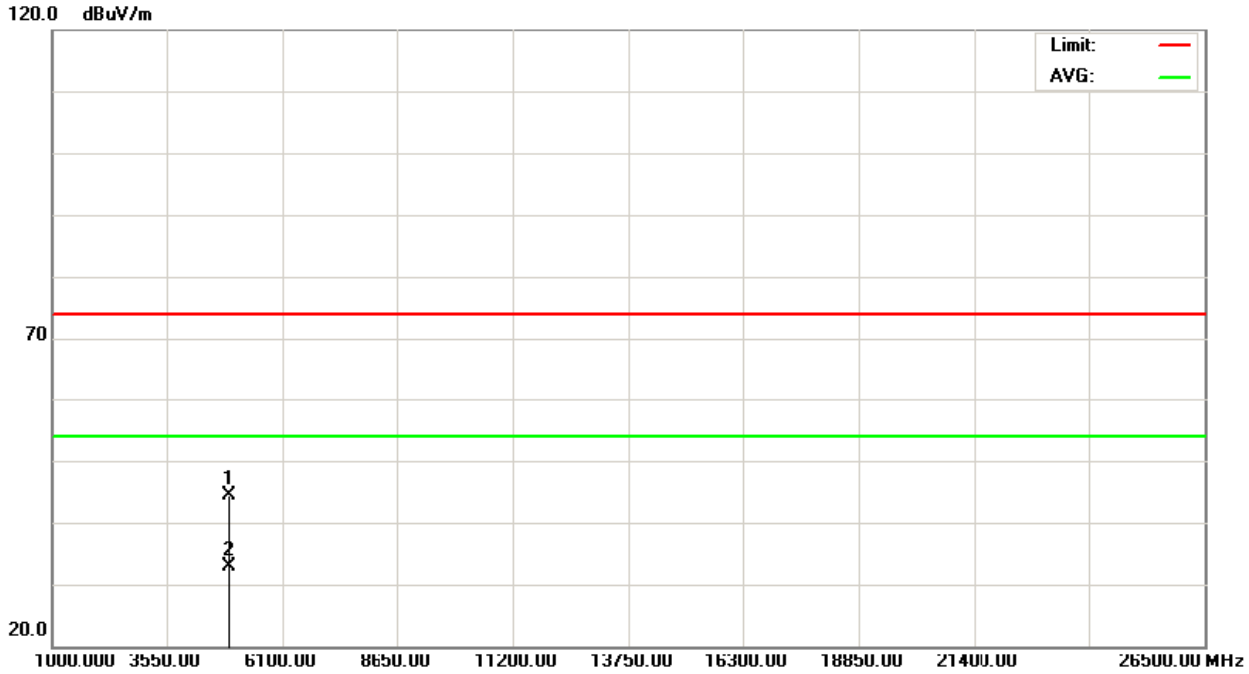
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Orthogonal Axis：Y
CH39 (Above 1000 MHz, Vertical)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	25℃	Relative Humidity：	68%
Pressure：	1009 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH39	EUT Orthogonal Axis：	Y

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.00	H	55.32	51.78	31.07	86.39	82.85			Y/F
4881.84	H	43.18	32.26	1.18	44.36	33.44	74.00	54.00	Y/H

Remark：

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

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

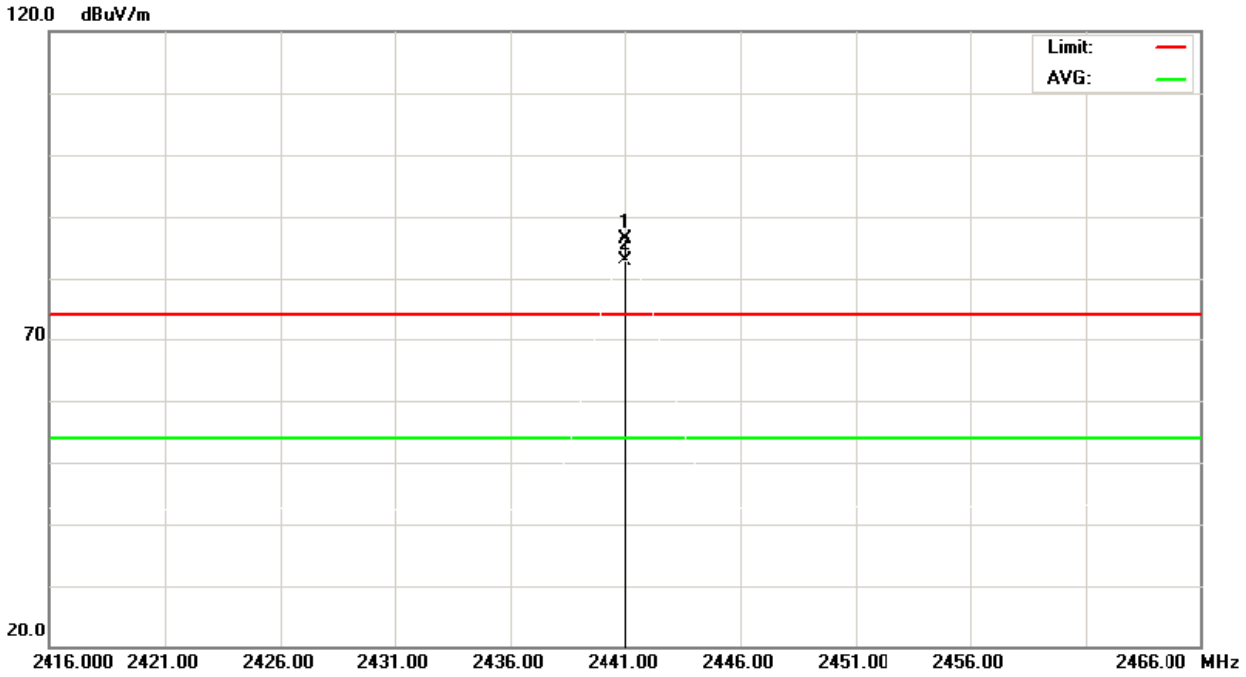
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

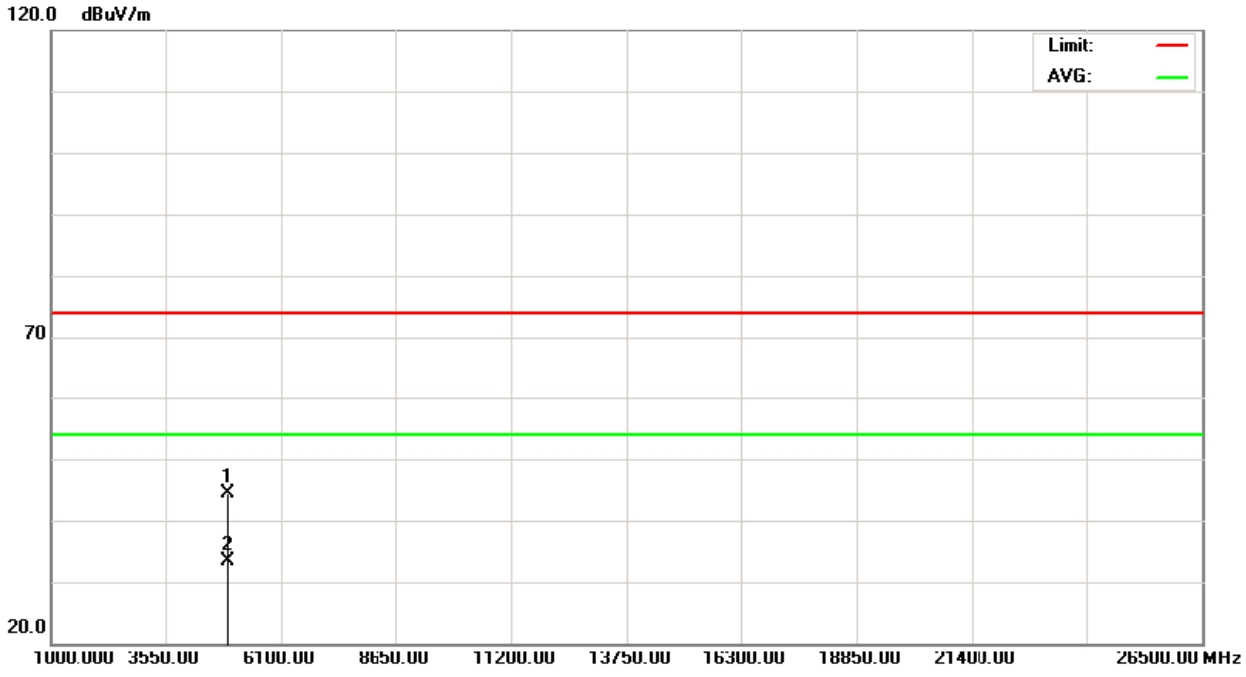
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Orthogonal Axis：Y
CH39 (Above 1000 MHz, Horizontal)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	25℃	Relative Humidity：	68%
Pressure：	1009 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH78	EUT Orthogonal Axis：	Y

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.00	V	56.17	52.56	31.20	87.37	83.76			Y/F
2483.50	V	21.45	15.17	31.22	52.67	46.39	74.00	54.00	Y/H
4959.75	V	43.16	31.58	1.51	44.67	33.09	74.00	54.00	Y/H

Remark：

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

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

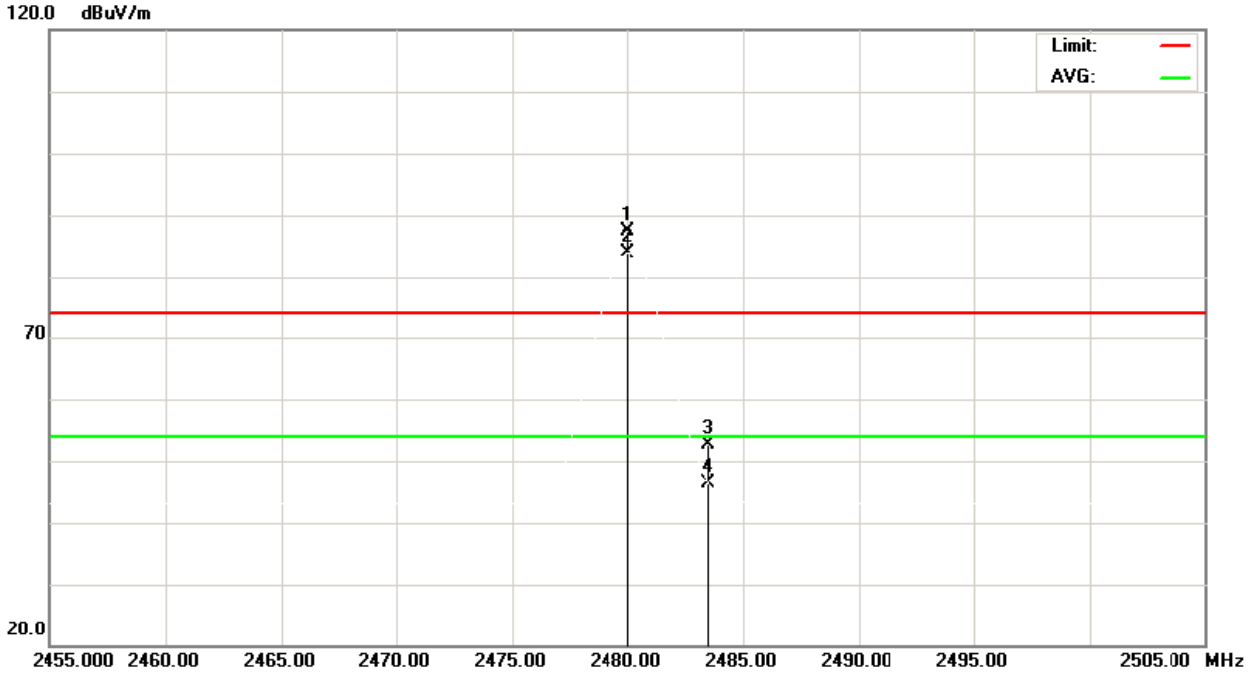
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

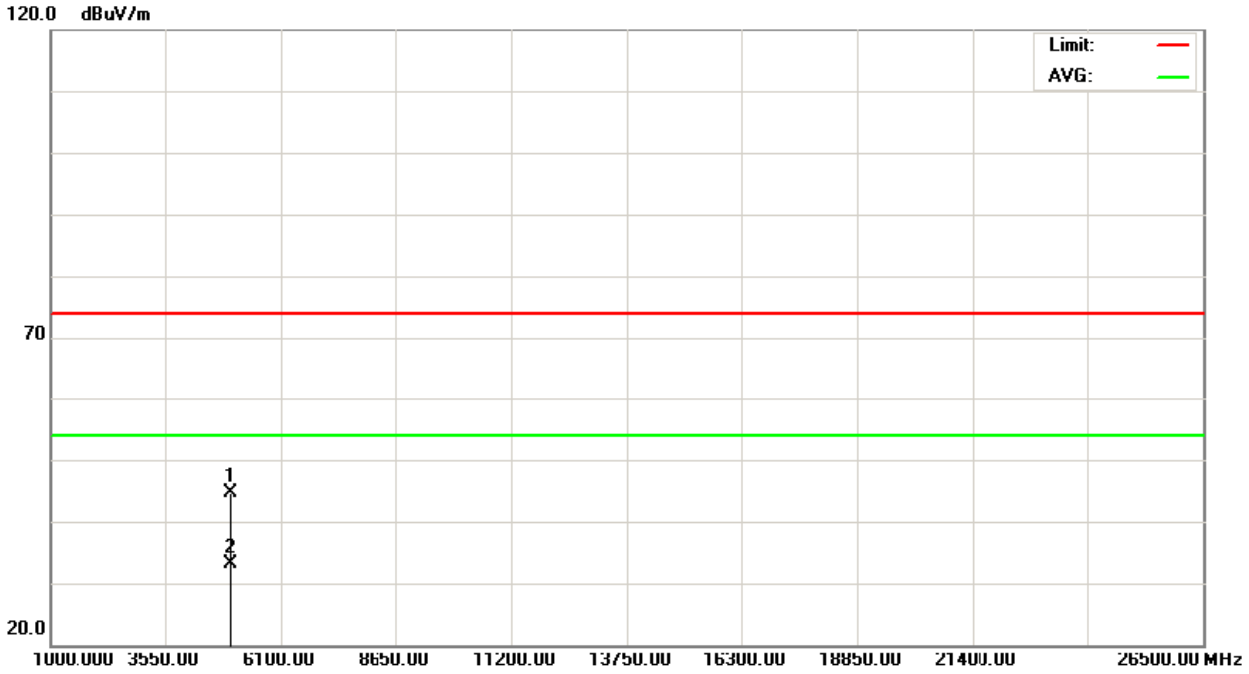
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Orthogonal Axis：Y
CH78 (Above 1000 MHz, Vertical)





EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	25℃	Relative Humidity：	68%
Pressure：	1009 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH78	EUT Orthogonal Axis：	Y

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.00	H	55.56	51.91	31.20	86.76	83.11			Y/F
2483.50	H	23.14	14.91	31.22	54.36	46.13	74.00	54.00	Y/H
4959.79	H	43.17	32.17	1.51	44.68	33.68	74.00	54.00	Y/H

Remark：

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

(2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency。"F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)

(3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

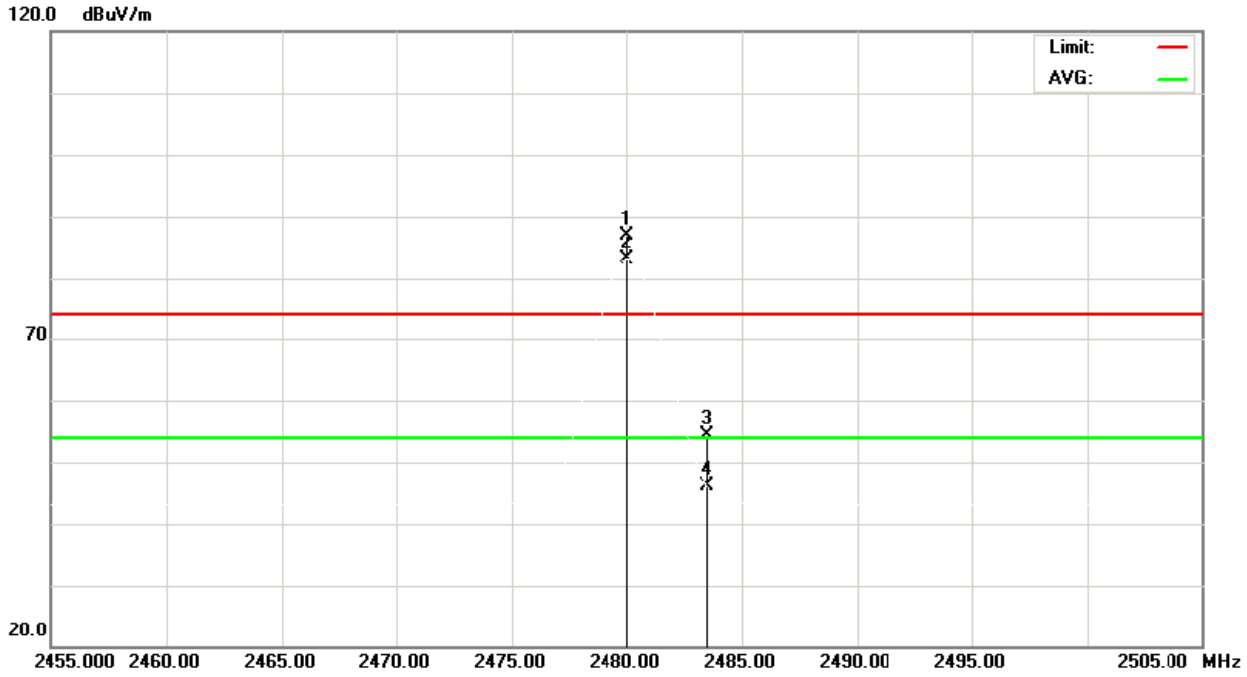
(4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

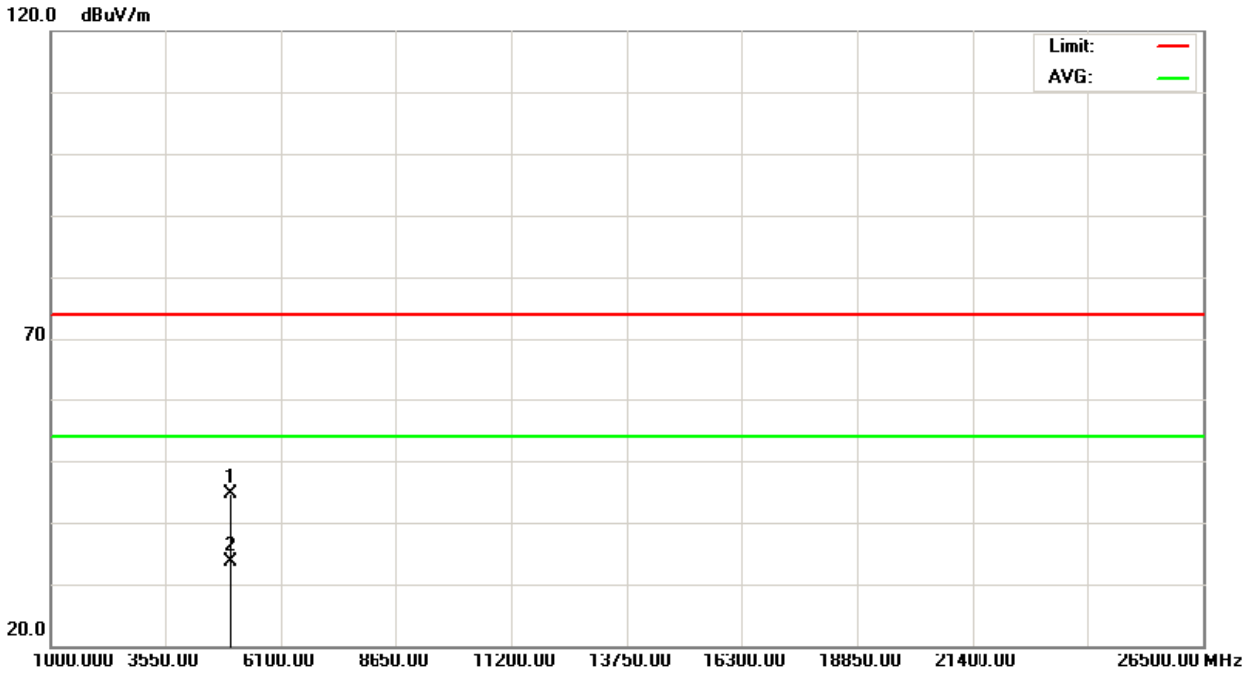
(5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

(6) EUT Orthogonal Axis：
"X" - denotes Laid on Table；"Y" - denotes Vertical Stand；"Z" - denotes Side Stand

(7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Orthogonal Axis：Y
CH78 (Above 1000 MHz, Horizontal)





9.2.9 TEST RESULTS (RESTRICTED BANDS REQUIREMENTS)

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	25℃	Relative Humidity：	68%
Pressure：	1009 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	Vertical		
Note：	1. The transmitter was setup to transmit at the lowest channel (CH00). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was setup to transmit at the highest channel (CH78). Then the field strength was measured at 2483.5-2500 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	22.21	12.16	30.90	53.11	43.06	74.00	54.00	CH00
2483.50	V	21.45	15.17	31.22	52.67	46.39	74.00	54.00	CH78

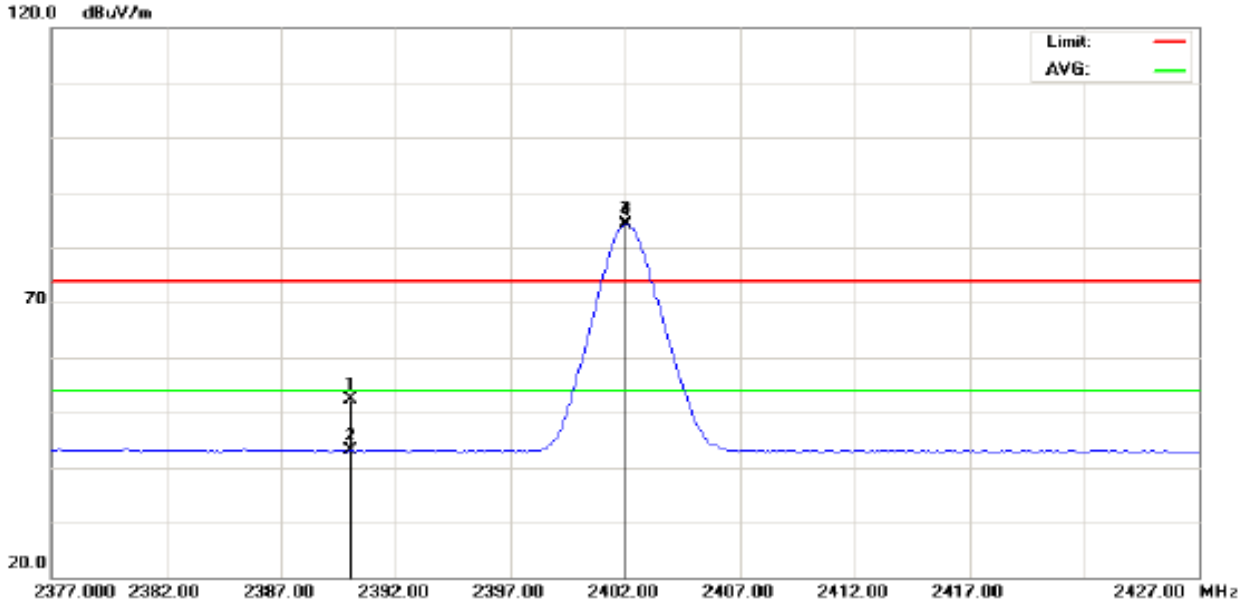
Remark：

(1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission 。

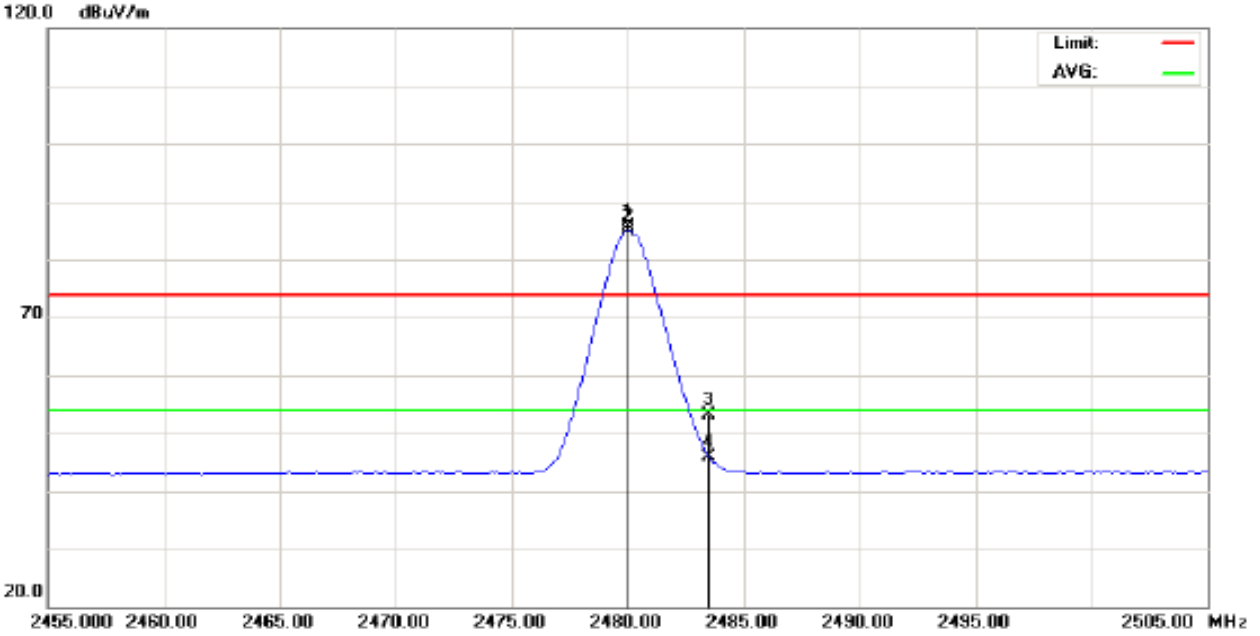
(2) EUT Orthogonal Axis：

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

Restricted Bands Requirements, Vertical
CH00



CH78



EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	25℃	Relative Humidity：	68%
Pressure：	1009 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	Horizontal		
Note：	1. The transmitter was setup to transmit at the lowest channel (CH00). Then the field strength was measured at 2310-2390 MHz. 2. The transmitter was setup to transmit at the highest channel (CH78). Then the field strength was measured at 2483.5-2500 MHz.		

Freq.	Ant.Pol.	Reading		Ant./CF	Act.		Limit		Note
		Peak	AV		Peak	AV	Peak	AV	
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	H	21.49	11.83	30.90	52.39	42.73	74.00	54.00	CH00
2483.50	H	23.14	14.91	31.22	54.36	46.13	74.00	54.00	CH78

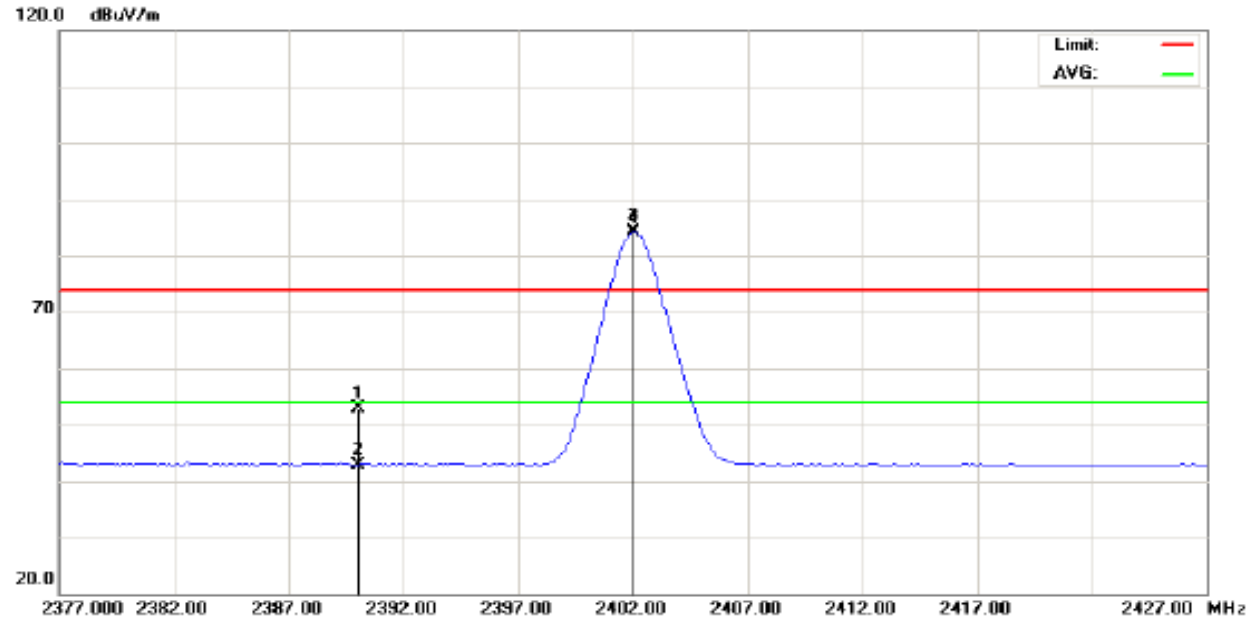
Remark：

(1) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission ◦

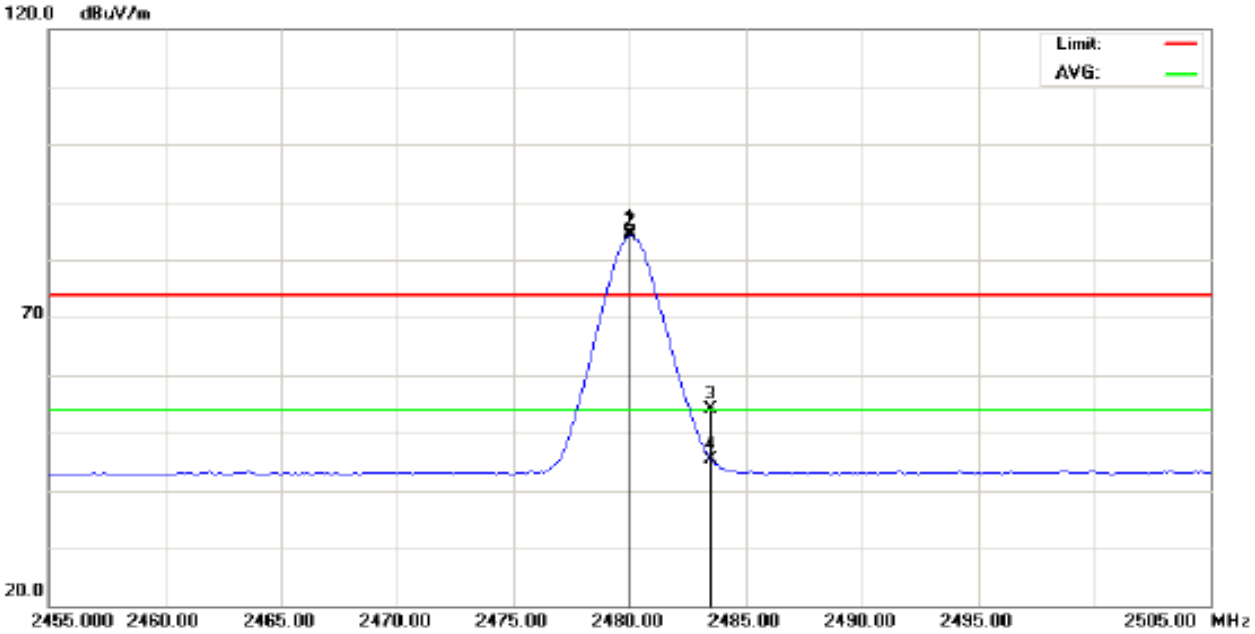
(2) EUT Orthogonal Axis：

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

Restricted Bands Requirements, Horizontal
CH00



CH78



10. NUMBER OF HOPPING CHANNEL (FOR FHSS)

10.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Frequency Range (MHz)	Result
15.247 (a)(1)(ii)	Number of Hopping Channel	2400-2483.5	PASS

10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Sep. 09, 2009

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

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

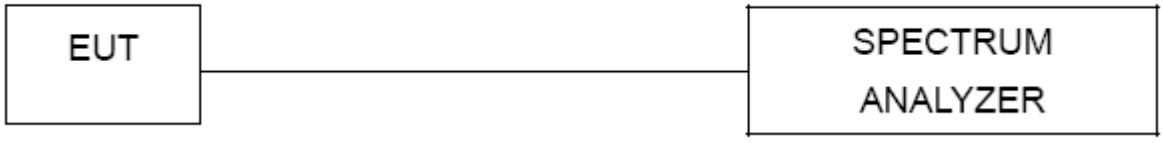
10.1.2 TEST PROCEDURE

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

10.1.3 DEVIATION FROM STANDARD

No deviation.

10.1.4 TEST SETUP



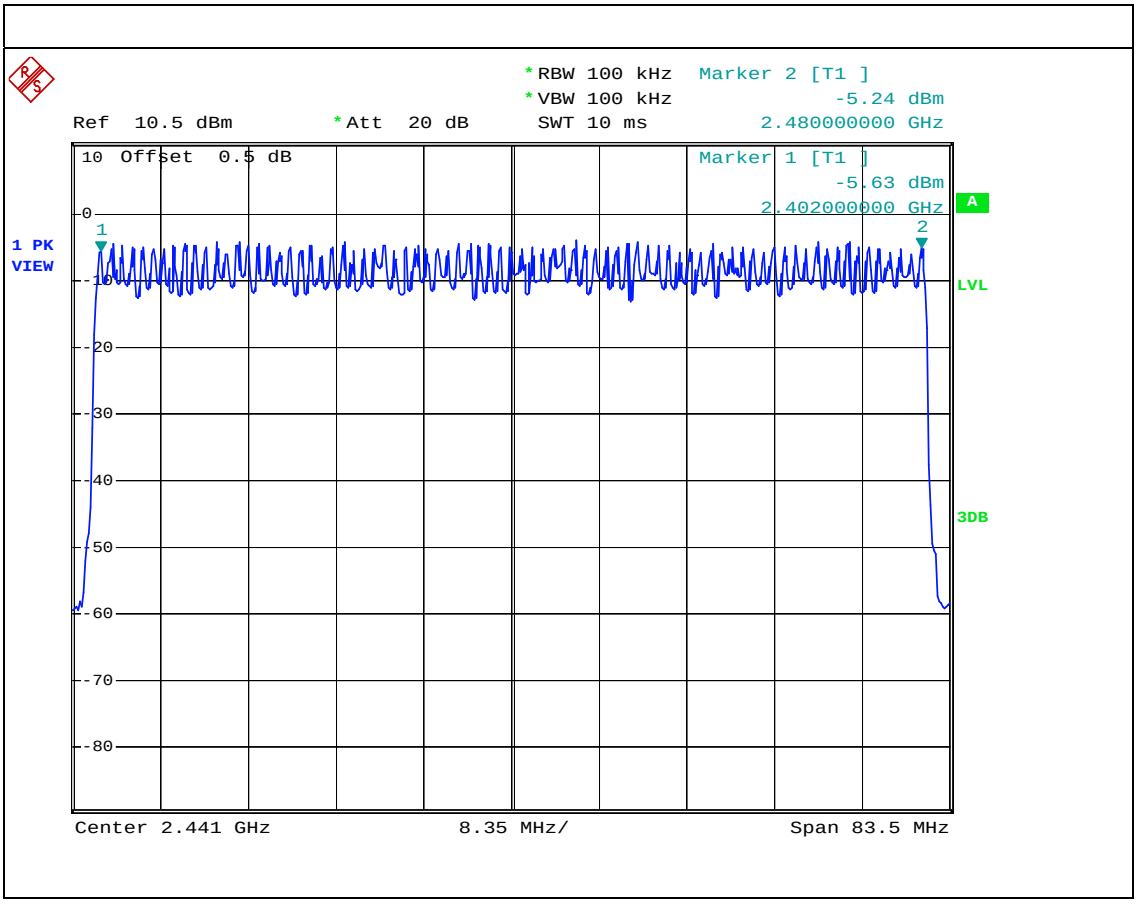
10.1.5 EUT OPERATION CONDITIONS

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

10.1.6 TEST RESULTS

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	23.5 ℃	Relative Humidity：	75 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	Hopping Mode		

Number of Hopping Channel	79



11. AVERAGE TIME OF OCCUPANCY (FOR FHSS)

11.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(ii)	Average Time of Occupancy	< = 0.4 sec (a 30 second period)	2400-2483.5	PASS

11.1.1 MEASUREMENT INSTRUMENTS LIST

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

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

11.1.2 TEST PROCEDURE

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

11.1.3 DEVIATION FROM STANDARD

No deviation.

11.1.4 TEST SETUP

11.1.5 EUT OPERATION CONDITIONS

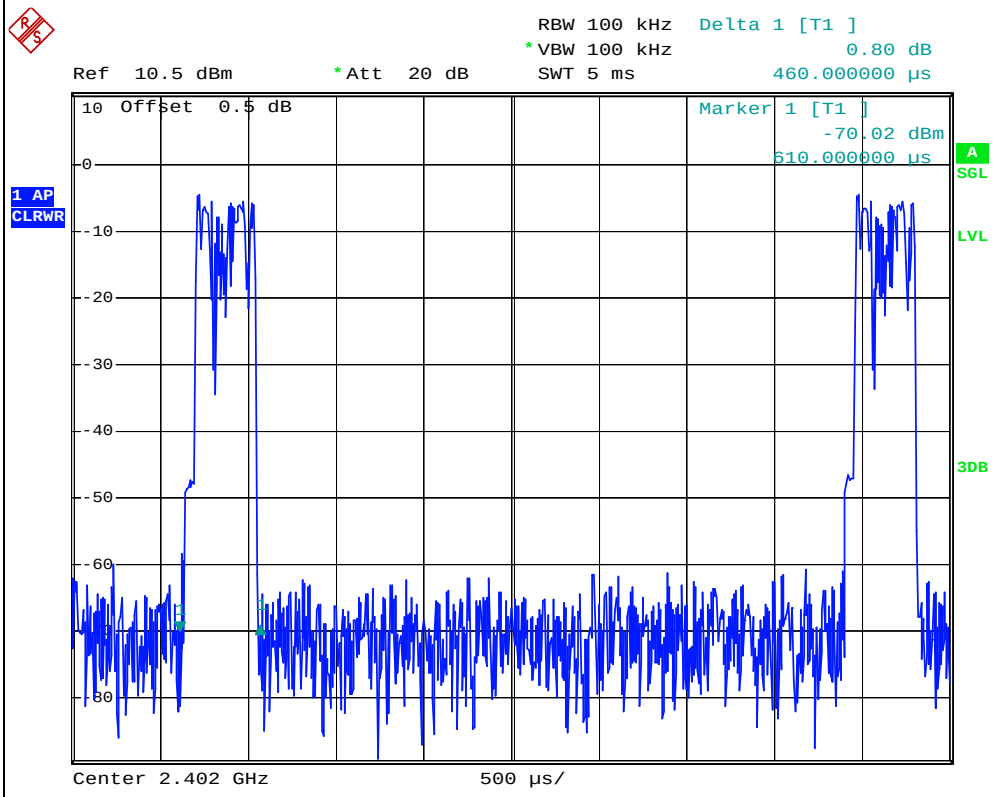
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

11.1.6 TEST RESULTS

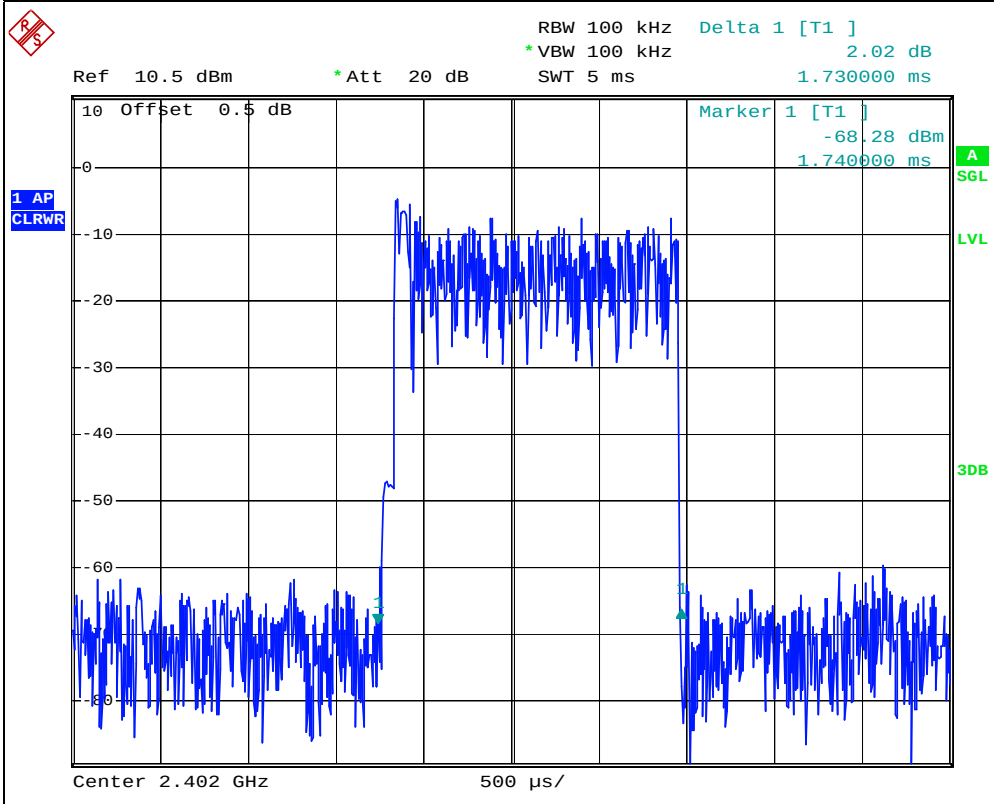
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	23.5 ℃	Relative Humidity：	75 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH00-DH1/DH3/DH5		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2402 MHz	0.4600	0.1472	0.4000
DH3	2402 MHz	1.7300	0.2768	0.4000
DH5	2402 MHz	2.9700	0.3168	0.4000

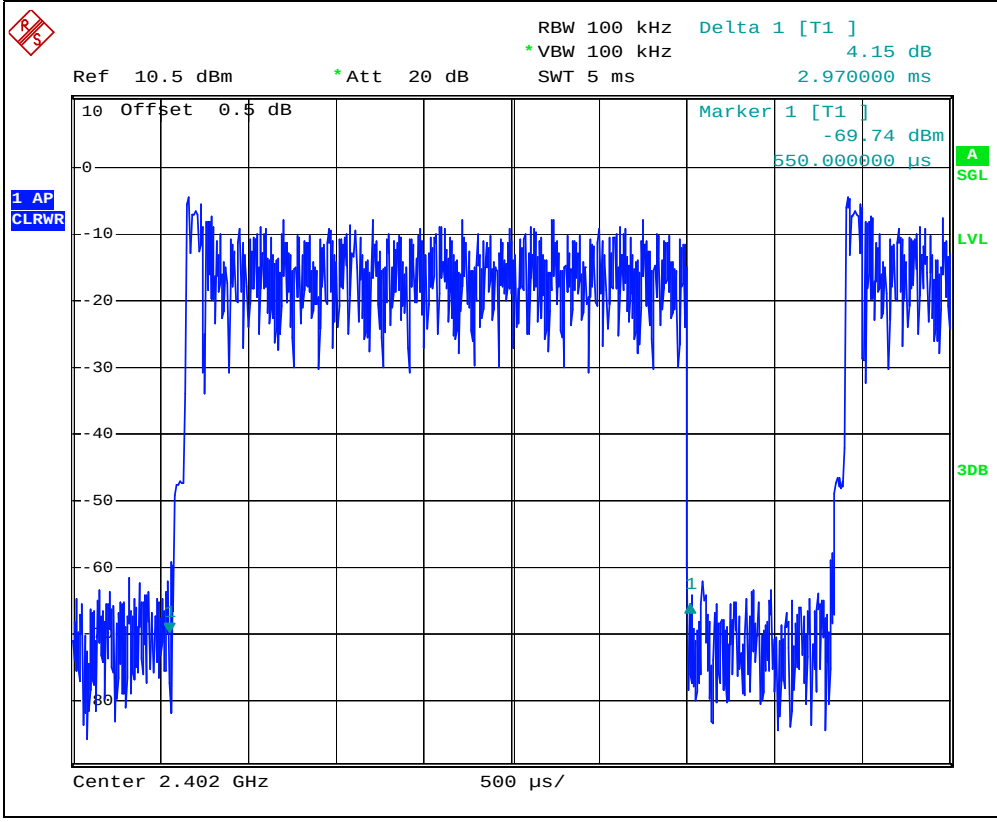
CH00-DH1



CH00-DH3



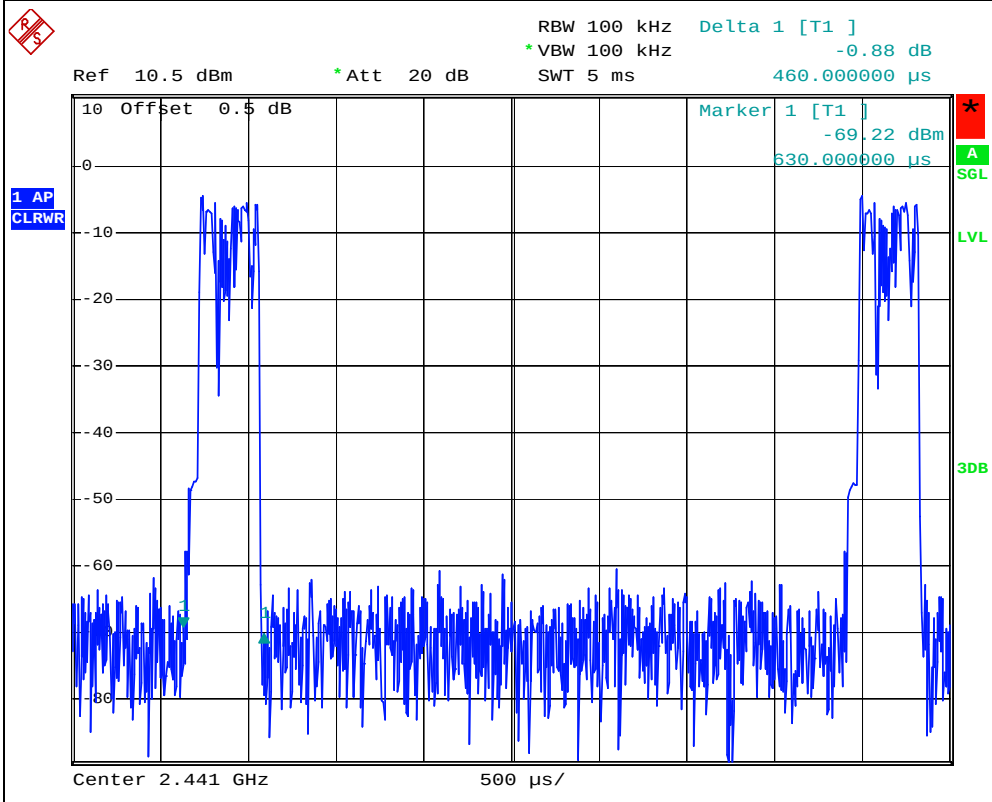
CH00-DH5



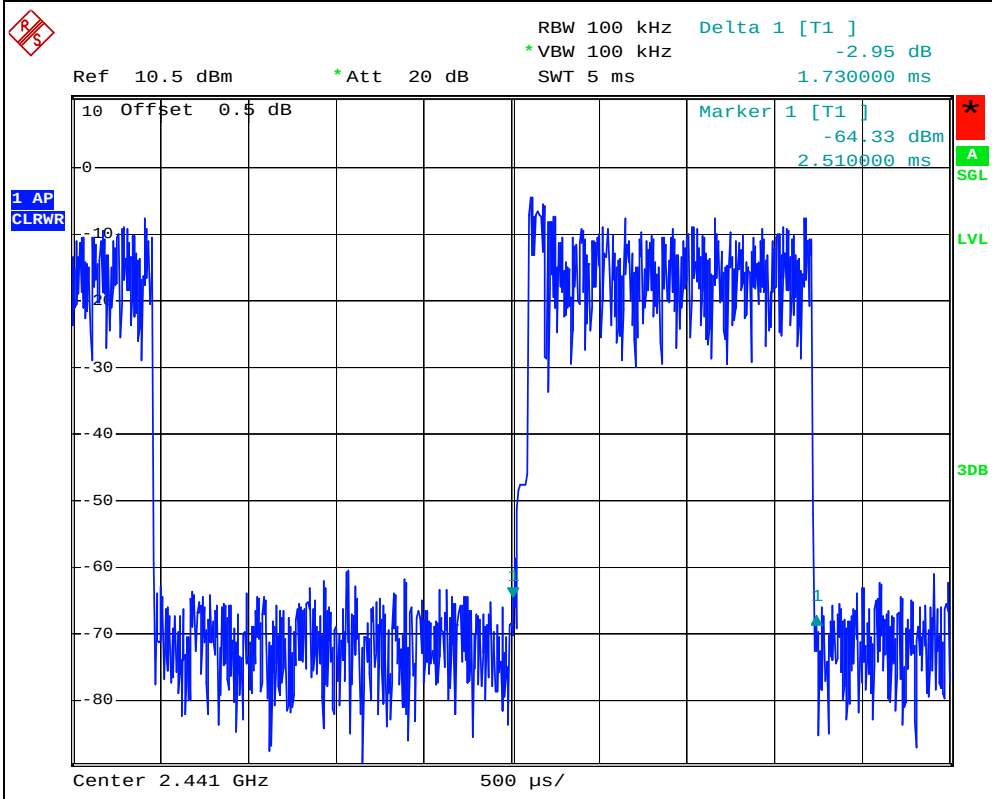
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	23.5 ℃	Relative Humidity：	75 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH39 -DH1/DH3/DH5		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2441 MHz	0.4600	0.1472	0.4000
DH3	2441 MHz	1.7300	0.2768	0.4000
DH5	2441 MHz	2.9700	0.3168	0.4000

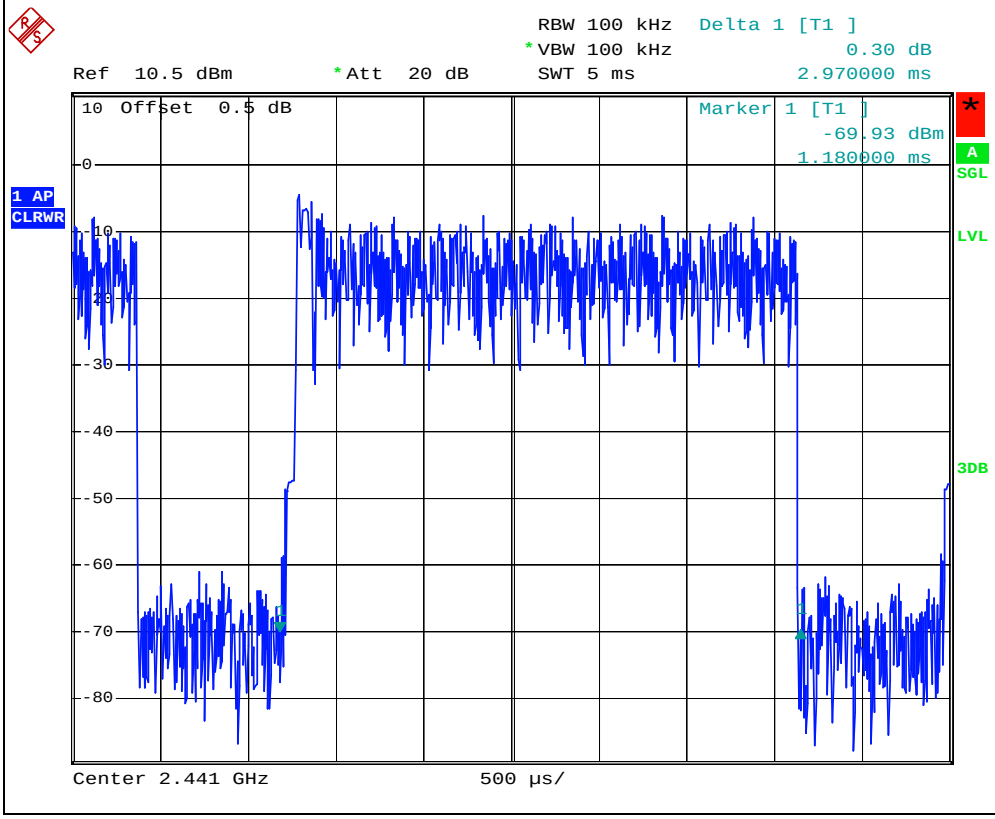
CH39-DH1



CH39-DH3



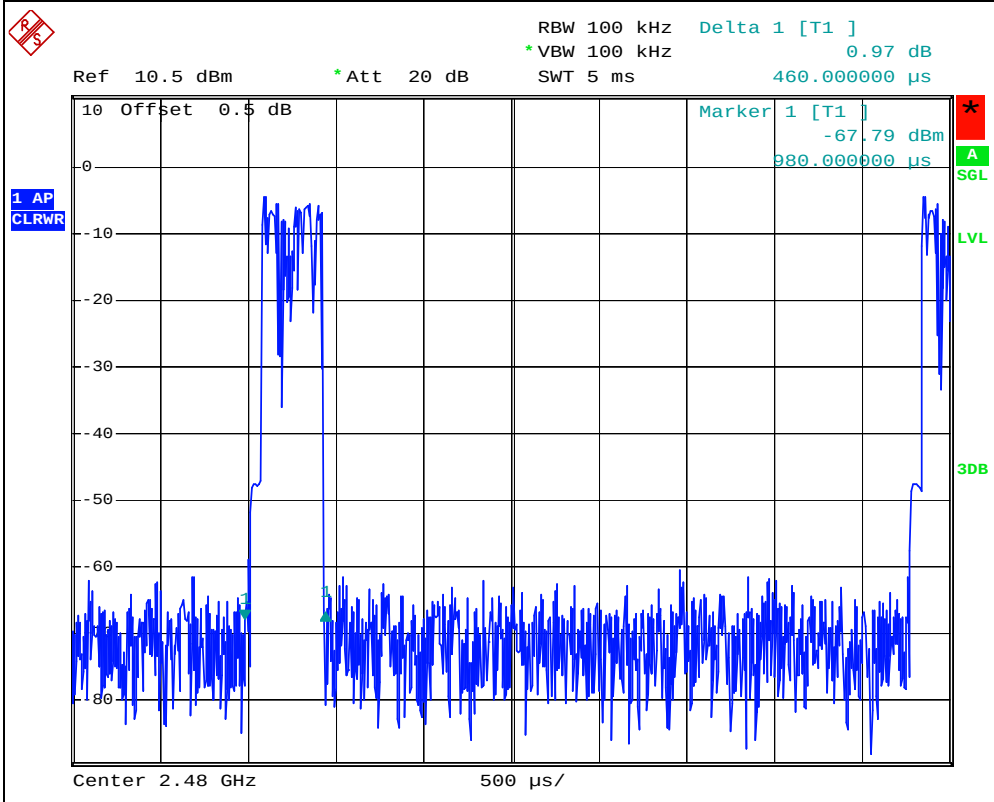
CH39-DH5



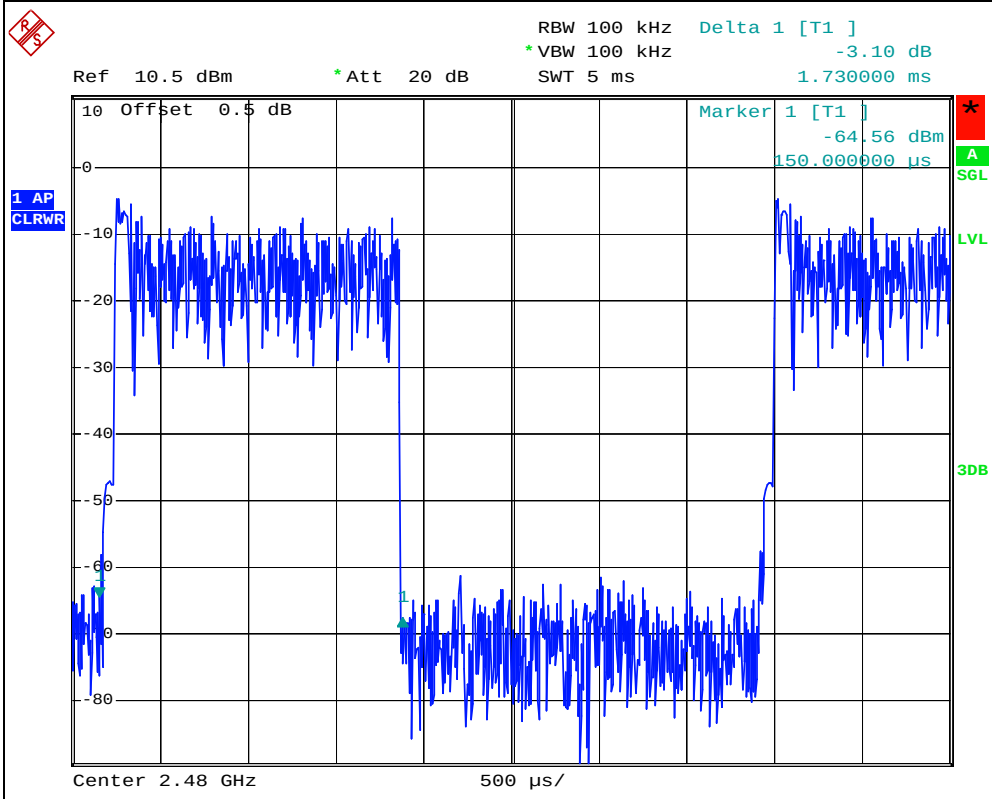
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	23.5 ℃	Relative Humidity：	75 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH78 -DH1/DH3/DH5		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH1	2480 MHz	0.4600	0.1472	0.4000
DH3	2480 MHz	1.7300	0.2768	0.4000
DH5	2480 MHz	2.9700	0.3168	0.4000

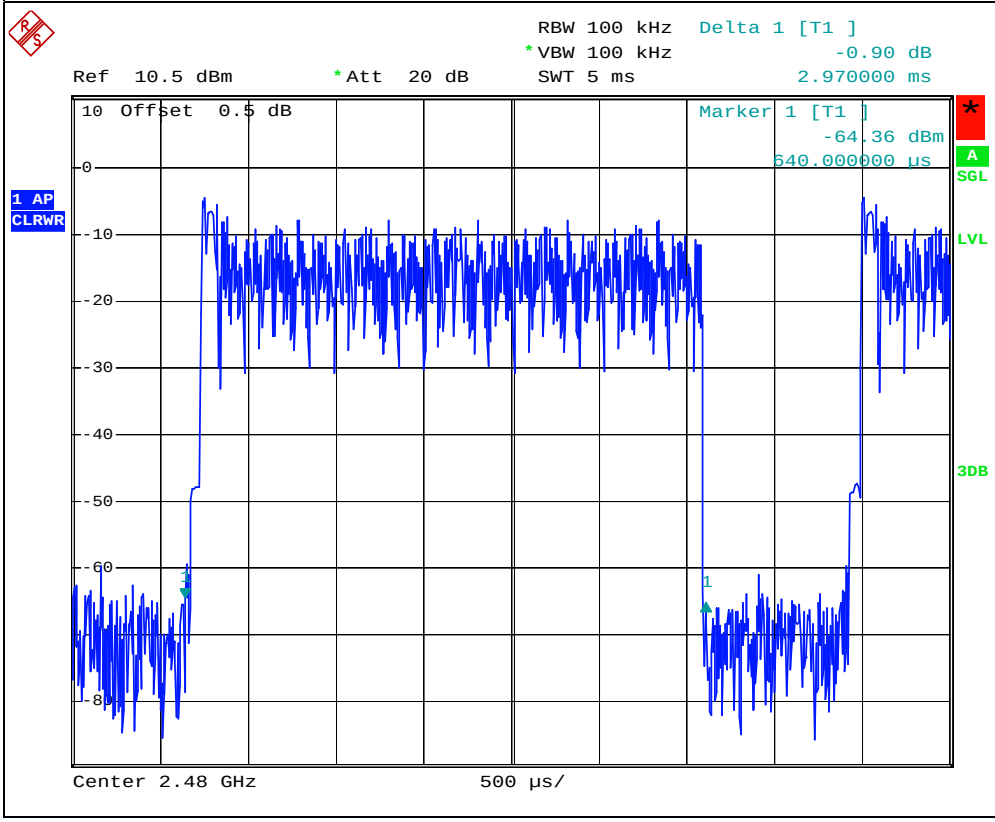
CH78-DH1



CH78-DH3



CH78-DH5



12. HOPPING CHANNEL SEPARATION MEASUREMENT (FOR FHSS)

12.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

12.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

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

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

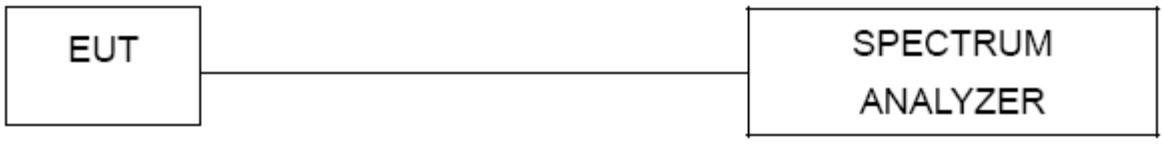
12.1.2 TEST PROCEDURE

a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
b. The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for 20 dB bandwidth measurement.
c. The resolution bandwidth of 100 kHz and the video bandwidth of 300 kHz were utilised for channel separation measurement.

12.1.3 DEVIATION FROM STANDARD

No deviation.

12.1.4 TEST SETUP



12.1.5 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.

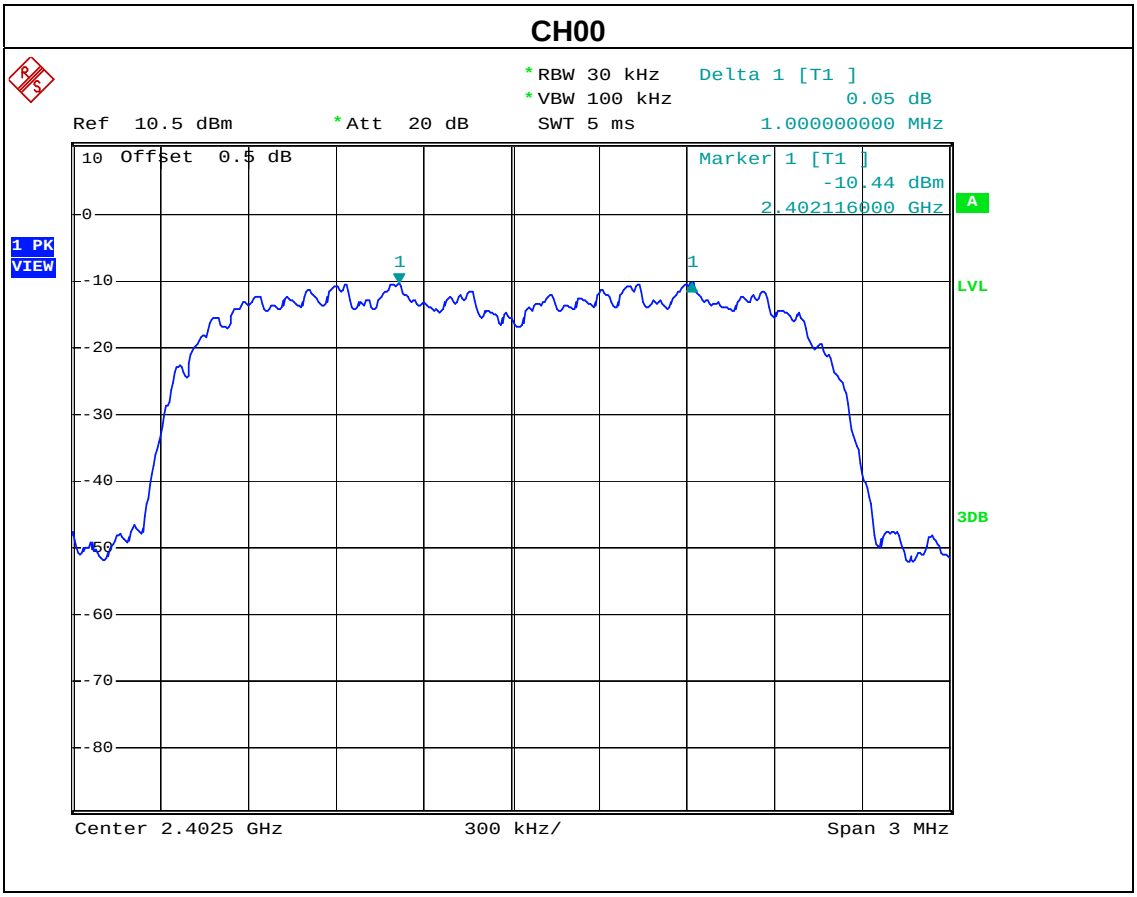
12.1.6 TEST RESULTS

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	23.5 ℃	Relative Humidity：	75 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH00 / CH39 / CH78		

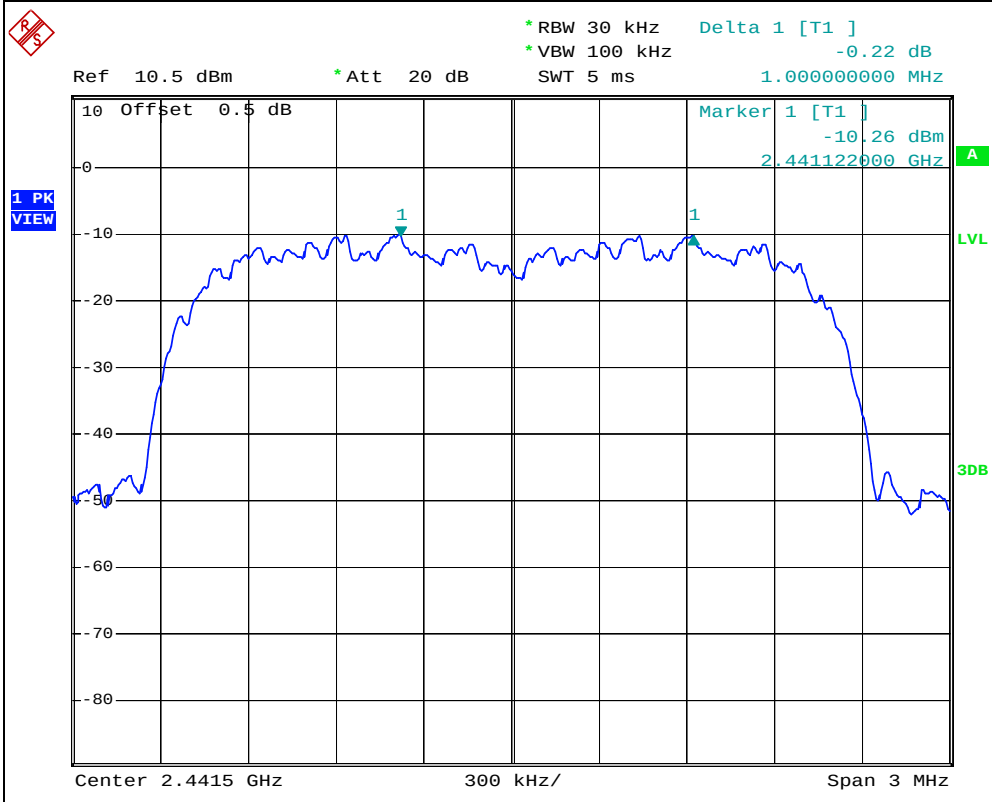
Frequency	Ch. Separation (MHz)	20dB Bandwidth (MHz)	Result
2402 MHz	1	0.904	Complies
2441 MHz	1	0.904	Complies
2480 MHz	1	0.907	Complies

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

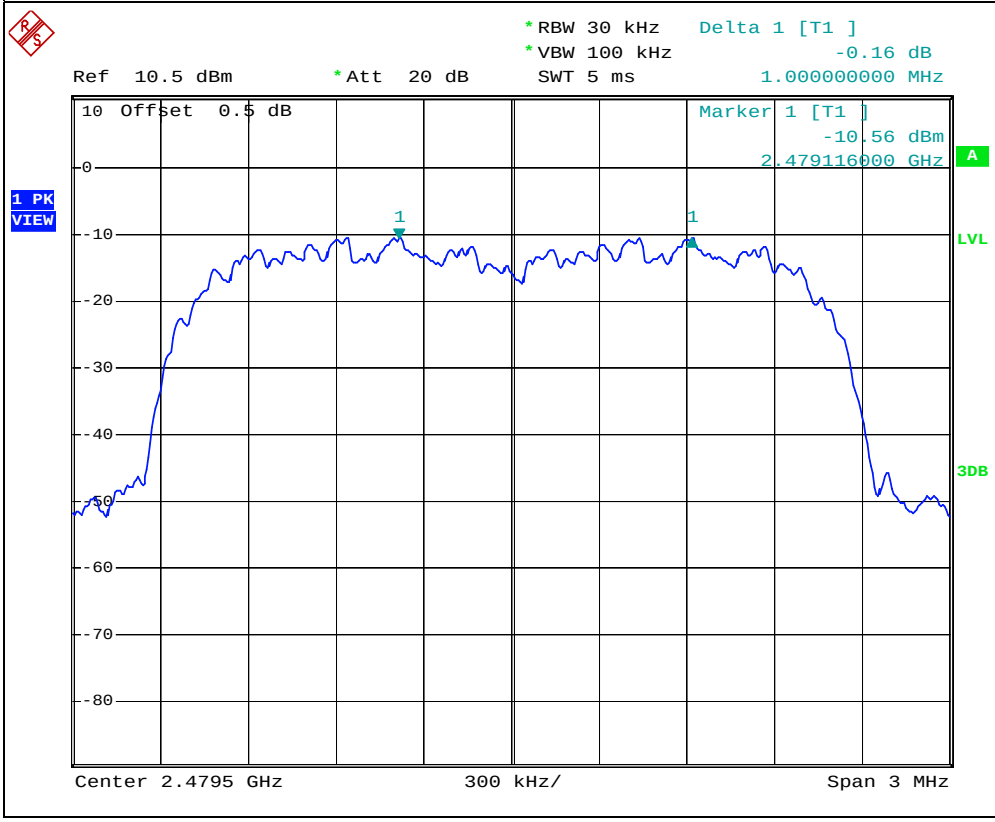
CH00



CH39


*RBW 30 kHz
*VBW 100 kHz
Ref 10.5 dBm
*Att 20 dB
SWT 5 ms
Delta 1 [T1]
-0.22 dB
1.000000000 MHz
10 Offset 0.5 dB
Marker 1 [T1]
-10.26 dBm
2.441122000 GHz
1 PK VIEW
A
LVL
3DB
Center 2.4415 GHz
300 kHz/
Span 3 MHz

CH78


*RBW 30 kHz
*VBW 100 kHz
Ref 10.5 dBm
*Att 20 dB
SWT 5 ms
Delta 1 [T1]
-0.16 dB
1.000000000 MHz
10 Offset 0.5 dB
Marker 1 [T1]
-10.56 dBm
2.479116000 GHz
1 PK VIEW
A
LVL
3DB
Center 2.4795 GHz
300 kHz/
Span 3 MHz

13. BANDWIDTH TEST (FOR FHSS)

13.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(2)	Bandwidth	<= 1 MHz (20dB bandwidth)	2400-2483.5	PASS

13.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Sep. 09, 2009

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

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 300 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

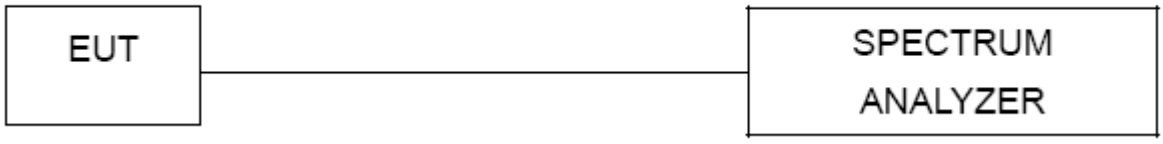
13.1.2 TEST PROCEDURE

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.

13.1.3 DEVIATION FROM STANDARD

No deviation.

13.1.4 TEST SETUP



13.1.5 EUT OPERATION CONDITIONS

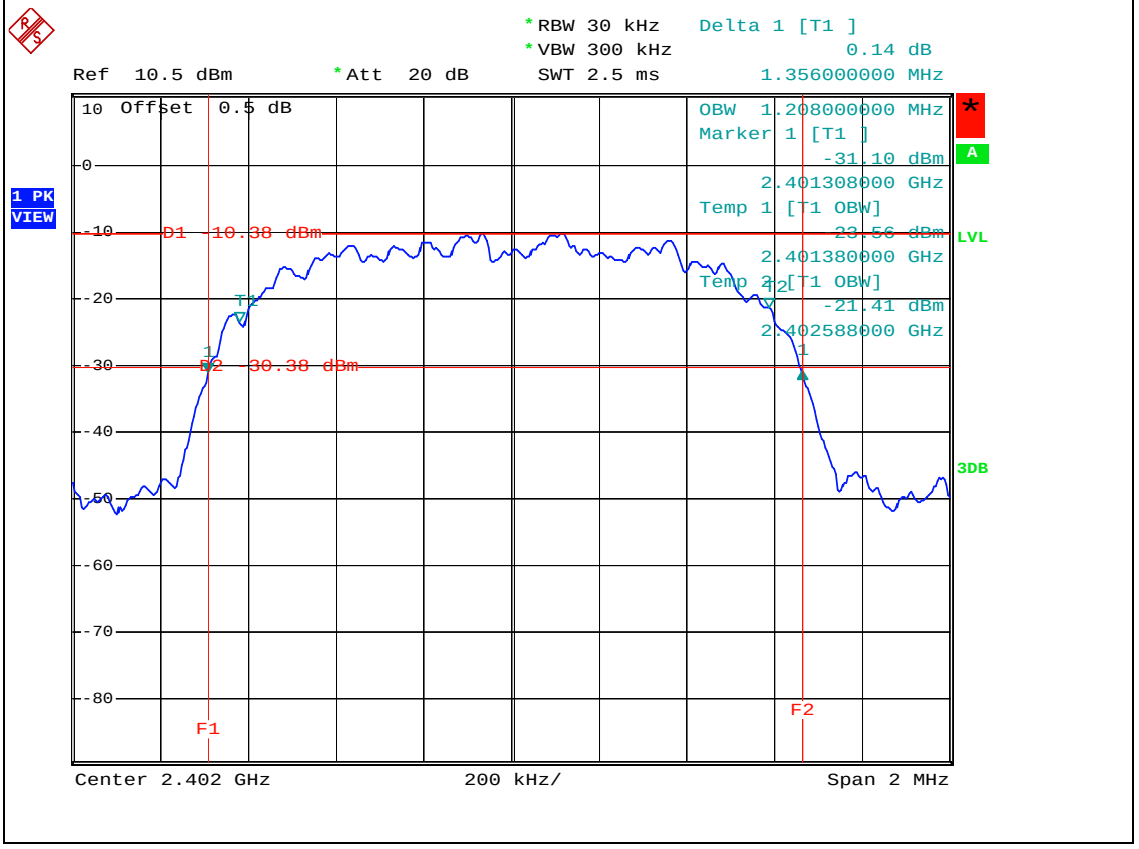
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

13.1.6 TEST RESULTS

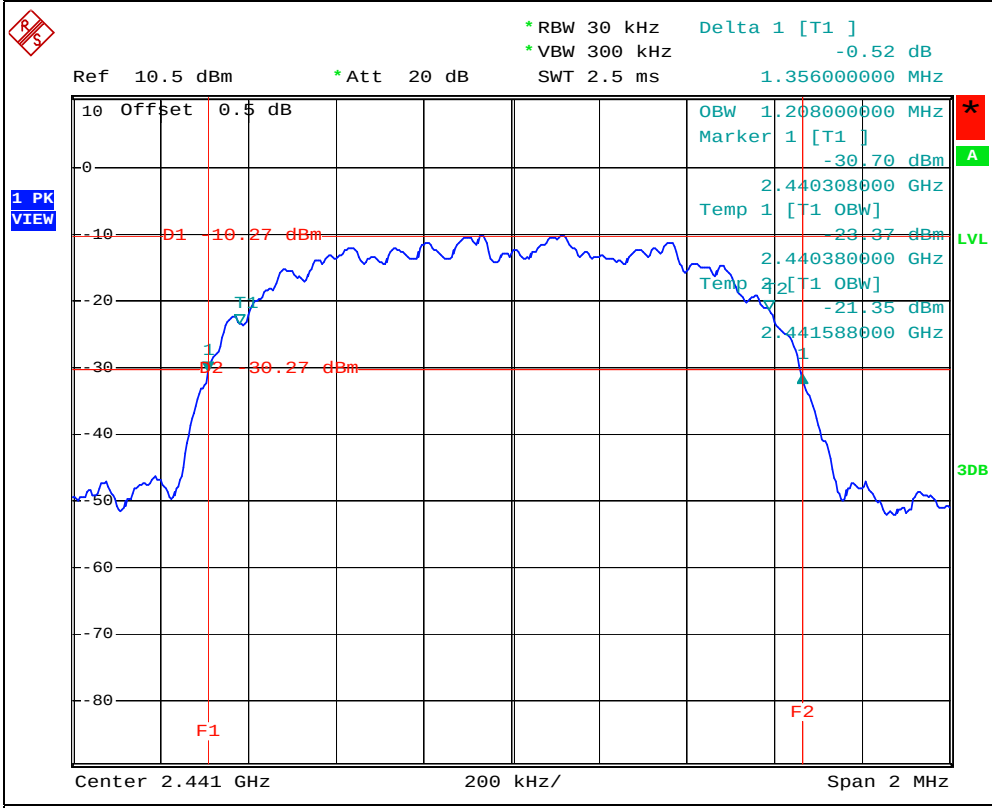
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	23.5 ℃	Relative Humidity：	75 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH00 / CH39 / CH78		

Frequency	20dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2402 MHz	1.356	<= 1MHz	**PASS**
2441 MHz	1.356	<= 1MHz	**PASS**
2480 MHz	1.360	<= 1MHz	**PASS**

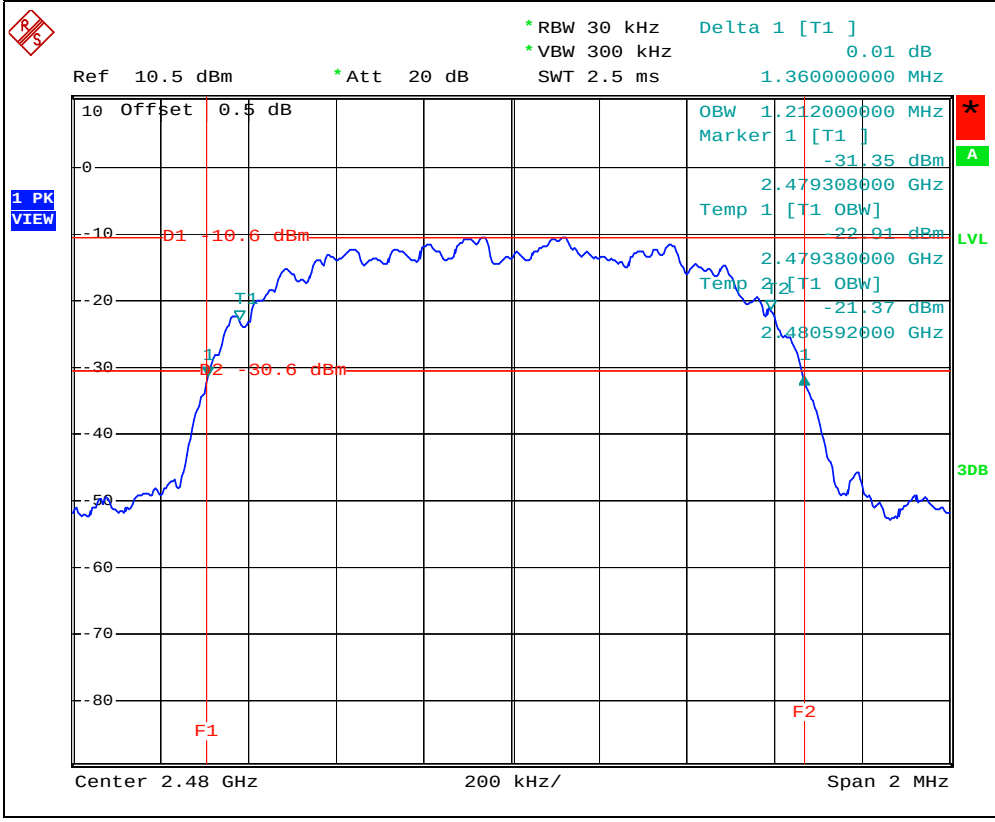
CH00



CH39


*RBW 30 kHz
*VBW 300 kHz
Ref 10.5 dBm
*Att 20 dB
SWT 2.5 ms
Delta 1 [T1]
-0.52 dB
1.356000000 MHz
10 Offset 0.5 dB
OBW 1.208000000 MHz
Marker 1 [T1]
-30.70 dBm
2.440308000 GHz
Temp 1 [T1 OBW]
-23.37 dBm
2.440380000 GHz
Temp 2 [T1 OBW]
-21.35 dBm
2.441588000 GHz
1 PK VIEW
D1 -10.27 dBm
D2 -30.27 dBm
LVL
3DB
F1
F2
Center 2.441 GHz
200 kHz/
Span 2 MHz

CH78


*RBW 30 kHz
*VBW 300 kHz
Ref 10.5 dBm
*Att 20 dB
SWT 2.5 ms
Delta 1 [T1]
0.01 dB
1.360000000 MHz
10 Offset 0.5 dB
OBW 1.212000000 MHz
Marker 1 [T1]
-31.35 dBm
2.479308000 GHz
Temp 1 [T1 OBW]
-22.91 dBm
2.479380000 GHz
Temp 2 [T1 OBW]
-21.37 dBm
2.480592000 GHz
1 PK VIEW
D1 -10.6 dBm
D2 -30.6 dBm
LVL
3DB
F1
F2
Center 2.48 GHz
200 kHz/
Span 2 MHz

14. PEAK OUTPUT POWER TEST

14.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(1)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

14.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP_40	100129	Sep. 09, 2009

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

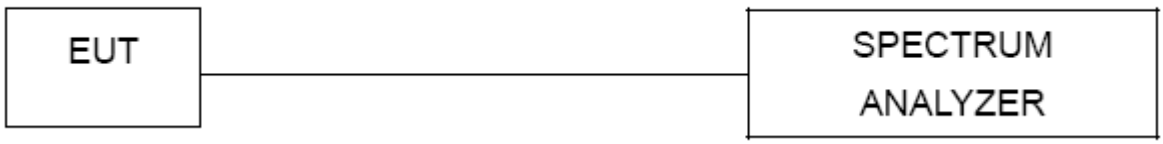
14.1.2 TEST PROCEDURE

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
b. Spectrum Setting : RBW= 3MHz, VBW= 3MHz, Sweep time = Auto.

14.1.3 DEVIATION FROM STANDARD

No deviation.

14.1.4 TEST SETUP



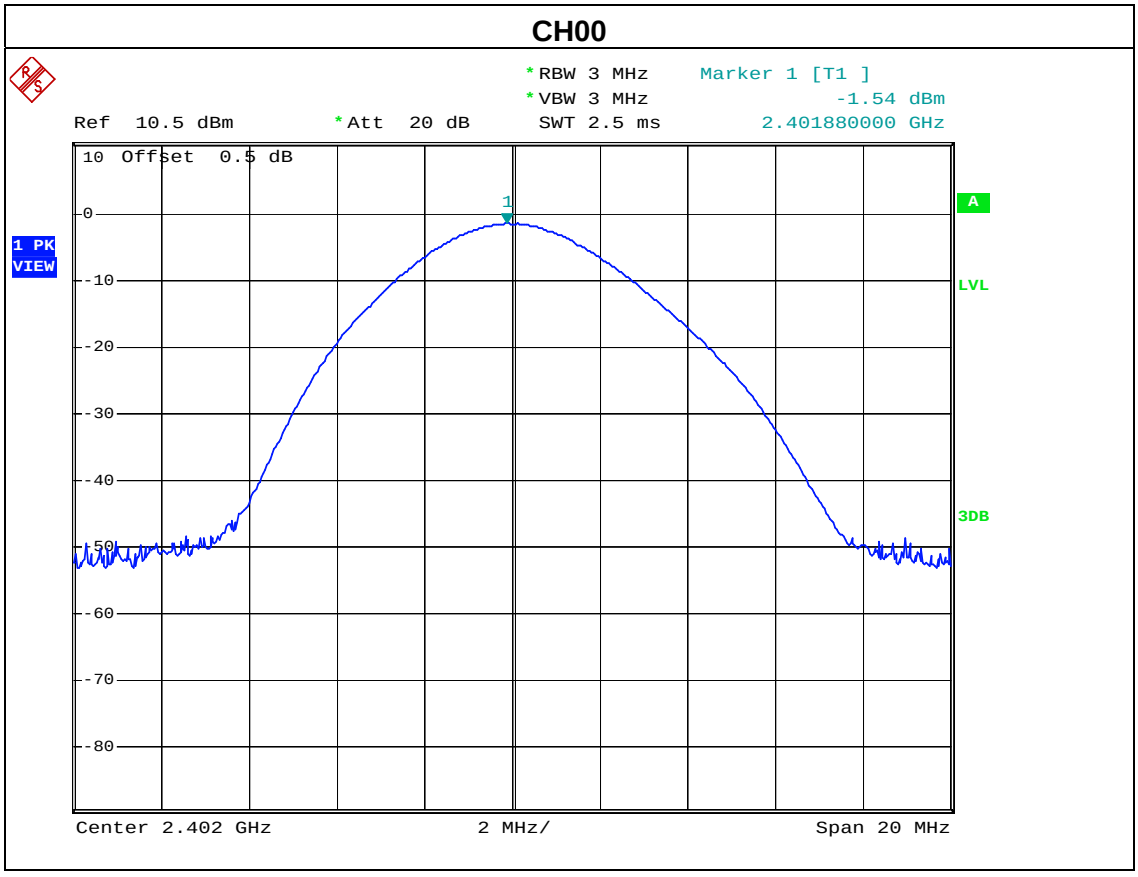
14.1.5 EUT OPERATION CONDITIONS

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.

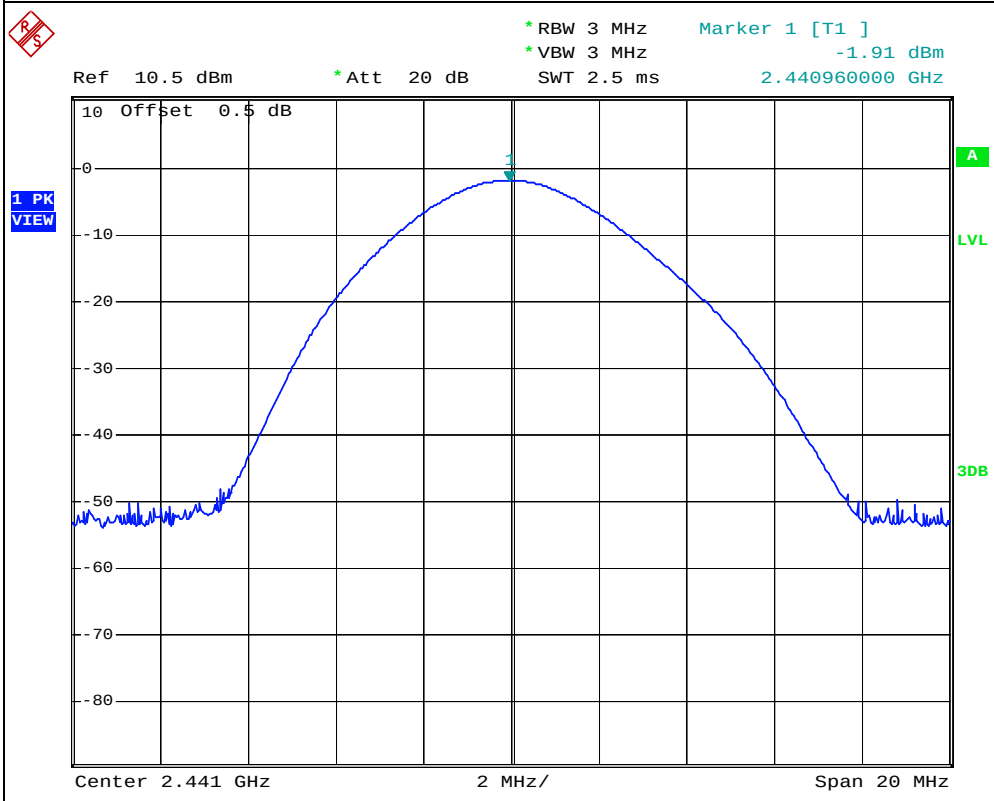
14.1.6 TEST RESULTS

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	23.5 ℃	Relative Humidity：	75 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH00 / CH39 / CH78		

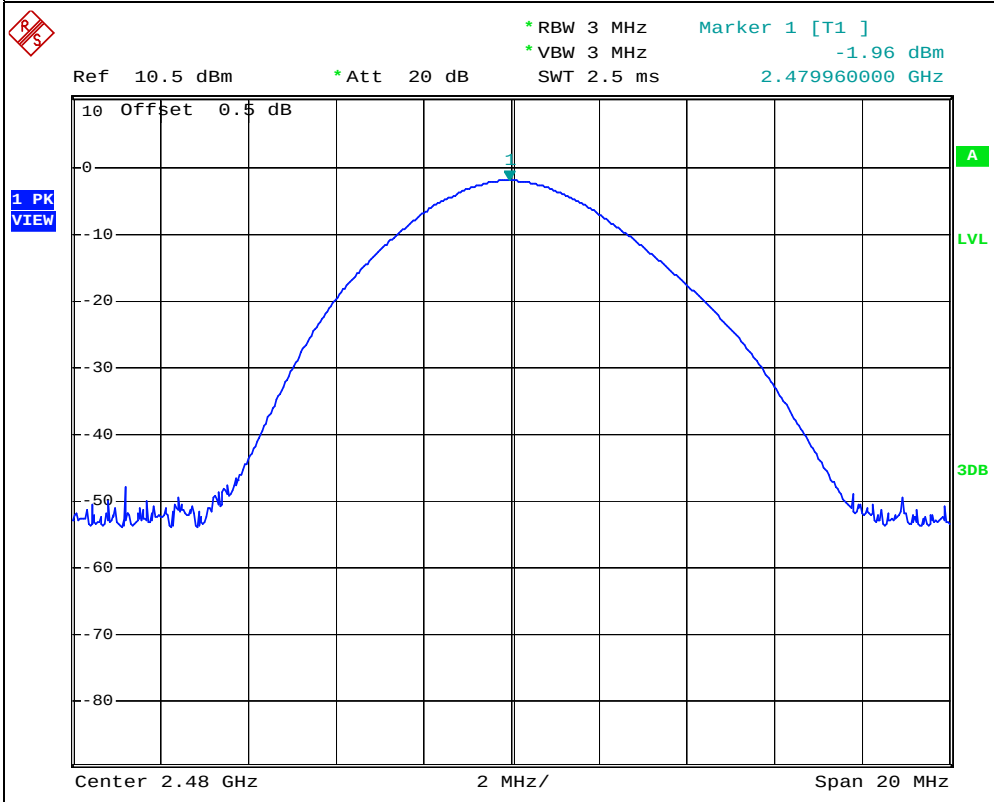
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402	-1.54	30	1
CH39	2441	-1.91	30	1
CH78	2480	-1.96	30	1



CH39


*RBW 3 MHz
*VBW 3 MHz
Marker 1 [T1]
-1.91 dBm
Ref 10.5 dBm
*Att 20 dB
SWT 2.5 ms
2.440960000 GHz
10 Offset 0.5 dB
1 PK
VIEW
A
LVL
3DB
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.441 GHz
2 MHz/
Span 20 MHz

CH78


*RBW 3 MHz
*VBW 3 MHz
Marker 1 [T1]
-1.96 dBm
Ref 10.5 dBm
*Att 20 dB
SWT 2.5 ms
2.479960000 GHz
10 Offset 0.5 dB
1 PK
VIEW
A
LVL
3DB
0
-10
-20
-30
-40
-50
-60
-70
-80
Center 2.48 GHz
2 MHz/
Span 20 MHz

15. ANTENNA CONDUCTED SPURIOUS EMISSION (FOR FHSS)

15.1 APPLIED PROCEDURES / LIMIT

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

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

15.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

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

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

The following table is the setting of the spectrum analyzer.

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

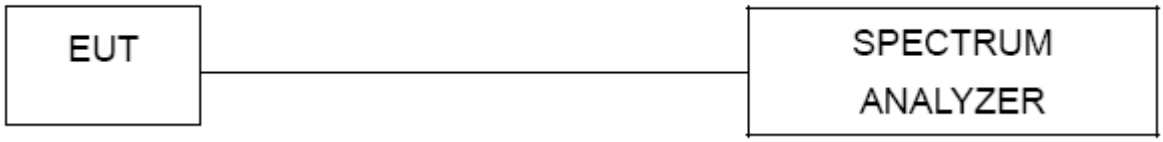
15.1.2 TEST PROCEDURE

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.

15.1.3 DEVIATION FROM STANDARD

No deviation.

15.1.4 TEST SETUP



15.1.5 EUT OPERATION CONDITIONS

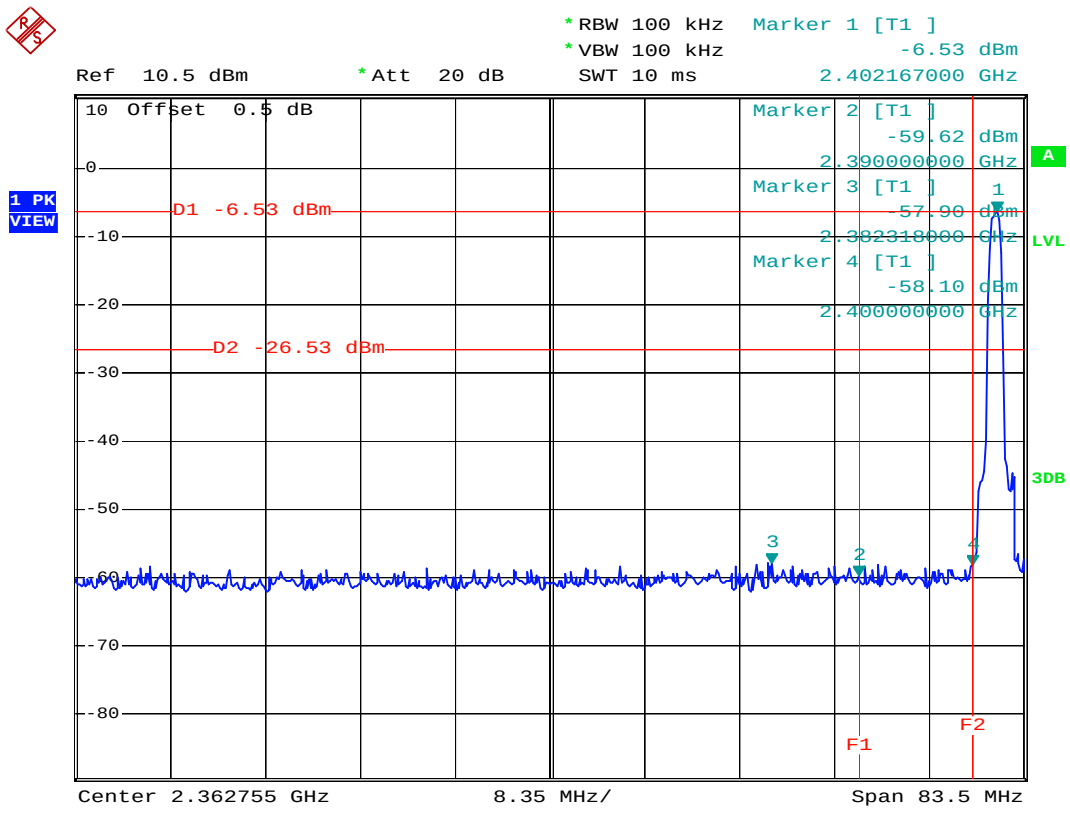
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

15.1.6 TEST RESULTS

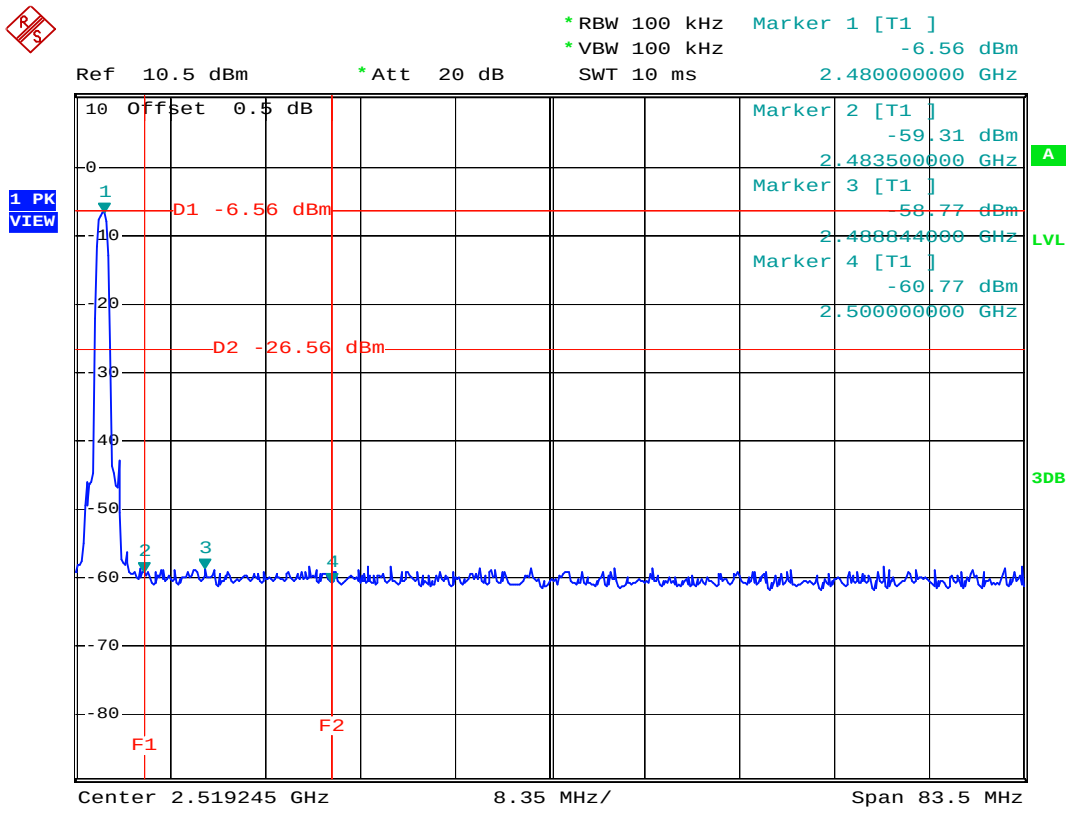
EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	23.5 ℃	Relative Humidity：	75 %
Pressure：	1012 hPa	Test Voltage ：	AC 120V/60Hz
Test Mode ：	CH00 / CH78		

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)
2382.318	-57.90	2488.844	-58.77
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.			

CH00 (Lower)



CH 78 (Upper)



16. RF EXPOSURE TEST (FOR DSSS&FHSS)

16.1 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

16.1.1 MEASUREMENT INSTRUMENTS LIST

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

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

16.1.2 MPE CALCULATION METHOD

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

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

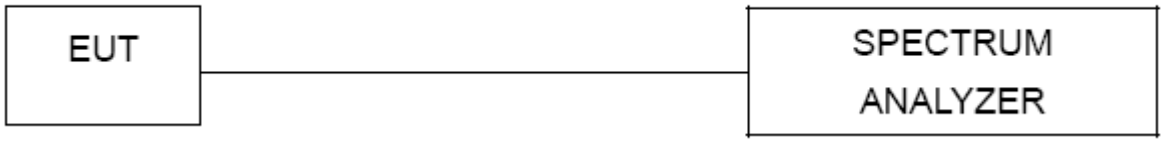
Pd $= \frac{30 \times P \times G}{377 \times d^2}$

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

16.1.3 DEVIATION FROM STANDARD

No deviation.

16.1.4 TEST SETUP



16.1.5 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.

16.1.6 TEST RESULTS

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11b		

Frequency	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)	Test Result
2412 MHz	0.30	1.0715	17.5600	57.0164	0.012160	1	Complies
2437 MHz	0.30	1.0715	17.6900	58.7489	0.012530	1	Complies
2462 MHz	0.30	1.0715	17.5500	56.8853	0.012133	1	Complies

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11g		

Frequency	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)	Test Result
2412 MHz	0.30	1.0715	21.1000	128.8250	0.027476	1	Complies
2437 MHz	0.30	1.0715	21.0200	126.4736	0.026974	1	Complies
2462 MHz	0.30	1.0715	20.3000	107.1519	0.022853	1	Complies

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n HT20		

Frequency	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)	Test Result
2412 MHz	0.30	1.0715	20.6600	116.4126	0.024828	1	Complies
2437 MHz	0.30	1.0715	20.4200	110.1539	0.023494	1	Complies
2462 MHz	0.30	1.0715	20.1000	102.3293	0.021825	1	Complies

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	802.11n HT40		

Frequency	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)	Test Result
2422 MHz	0.30	1.0715	20.9100	123.3105	0.026300	1	Complies
2437 MHz	0.30	1.0715	20.4800	111.6863	0.023820	1	Complies
2452 MHz	0.30	1.0715	20.7400	118.5769	0.025290	1	Complies

EUT：	Notebook Computer	Model No. ：	NL**
Temperature：	27 ℃	Relative Humidity：	55 %
Pressure：	1004 hPa	Test Power ：	AC 120V/60Hz
Test Mode ：	Bluetooth		

Frequency	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)	Test Result
2402 MHz	2	1.5849	-1.5400	0.7015	0.000221	1	Complies
2441 MHz	2	1.5849	-1.9100	0.6442	0.000203	1	Complies
2480 MHz	2	1.5849	-1.9600	0.6368	0.000201	1	Complies

Remark：

(1) The MIMI test requirement, MPE shall measure by using the total sum power of each transmitter chain.

17. EUT TEST PHOTO

Conducted Measurement Photos

Radiated Measurement Photos