

FCC TEST REPORT

for

47 CFR, Part 15 Subpart E

Equipment : Multi Radio 802.11a/b/g/n Wireless LAN
Access Point

Trade Name : Meru Networks Inc.

Model No. : AP310, AP311, AP320

FCC ID : RE7-AP300

IC : 6749A-AP300

Filing Type : Certification

Applicant : Meru Networks Inc.
894 Ross Drive Sunnyvale, CA 94089 USA

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- The data shown in this test report were carried out on Sep. 29, 2007 at Sporton International Inc. LAB.
- Report No.: FZ791302A, Report Version: 02.



Jones Tsai
Manager

SPORTON International Inc.

6F, No.106, Sec. 1, Hsin Tai Wu Rd., Hsi Chih, Taipei Hsien, Taiwan, R.O.C.

SPORTON International Inc.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

Report Version: 02

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History of this test report

Report Issue Date: Oct. 15, 2007

Report No.	Description

1. General Description of Equipment under Test

1.1 Applicant

Meru Networks Inc.

894 Ross Drive Sunnyvale, CA 94089 USA

1.2 Manufacturer

Universal Scientific Industrial (Shanghai)

No. 1558, Zhang Dong Road, Zhangjiang Hi-Tech Park, Shanghai, P.R. China 201203

1.3 Basic Description of Equipment under Test

Equipment		Multi Radio 802.11a/b/g/n Wireless LAN Access Point
Trade Name		Meru Networks Inc.
Model No.		AP310, AP311, AP320
FCC ID		RE7-AP300
Antenna 1	Model Name	MRU04-220050
	Antenna Gain	2 dBi(2.4G), 3 dBi(5G)
	Antenna Type	Dipole antenna
	Connector	Reverse SMA
Antenna 2	Model Name	ANT-DB1-RAF-RPS
	Antenna Gain	4.7 dBi for 2.4G and 5GHz band.
	Antenna Type	Dipole antenna
	Connector	Reverse SMA
POE	Model Name	POE-152
	Power Rating	I/P:DC48V, 0.4A
AC Adapter 1	Brand Name	UMEC
	Model Name	UP0251P-05PA
	Power Rating	I/P:100-240Vac,50-60Hz,0.5A; O/P:5V,3.5A
	AC Power Cord Type	1.9 meter non-shielded cable without ferrite core
AC Adapter 2	Brand Name	UMEC
	Model Name	UP0151D-48P
	Power Rating	I/P:100-240V,47-63Hz,0.4A; O/P:48V,0.32A
	AC Power Cord Type	0.8 meter shielded cable with ferrite core

Remark: Above EUT's information was declared by manufacturer. Please refer to the specifications of manufacturer or User's Manual for more detailed features description.

1.4 Feature of Equipment under Test

1. DUT Type	Multi Radio 802.11a/b/g/n Wireless LAN Access Point			
2. Trade Name	Meru Networks Inc.			
3. Model Name	AP310, AP311, AP320			
4. Freq. Range/Carrier Freqs.	802.11a : 5150 ~ 5250MHz 802.11n : 5150 ~ 5250MHz			
5. Test channel number	20MHz for 3 channels, 40MHz for 2 channels,			
6. Nominal Bandwidth	20MHz mode and 40M mode			
7. Type of Antenna Connector	Reverse SMA connector			
8. Antenna Type	Dipole Antenna			
9. Antenna Gain	4.7 dBi			
10. Maximum Output Power to Antenna (Normal condition)	802.11a : 12.17 dBm 802.11n(a) : 8.45 dBm			
11. Modulation Type/Data Rate	WLAN : DSSS / OFDM			
12. Function Type	Transmitter		Transceiver	V

2. Test Configuration of Equipment under Test

2.1 Test Manner

- a. The EUT has been associated with peripherals pursuant to ANSI C63.4-2003 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.
- b. Power Tables were as below:

Normal mode

Channel		Frequency(MHz)	Data Rate							
			6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Normal mode	CH036	5180 MHz	22.78	22.96	22.8	22.72	22.71	22.6	22.49	22.82
	CH040	5200MHz	23.1	23.2	22.6	22.6	23.4	22.55	22.12	22.6
	CH044	5220 MHz	22.15	22.38	22.72	22.48	22.95	22.55	22.51	22.68

11n(a) 20M mode

Channel		Frequency(MHz)	Data Rate							
			130M bps	117M bps	104M bps	78M bps	52M bps	39M bps	26M bps	13M bps
11n(a) 20M	CH036	5180 MHz	23.22	23.06	23.91	23.41	23.85	23.61	23.16	23.8
	CH040	5200MHz	23.74	23.1	23.2	23.44	23.1	24.05	23.45	24.25
	CH044	5220 MHz	24.6	24.06	24.14	24.63	24.11	24.48	24.13	24.06

11n(a) 40M mode

Channel		Frequency(MHz)	Data Rate							
			270M bps	243M bps	216M bps	162M bps	108M bps	81M bps	54M bps	27M bps
11n(a) 40M	CH 038	5190 MHz	22.61	22.63	22.98	22.77	22.56	21.38	22.75	22.28
	CH044	5220 MHz	22.83	22.72	22.75	22.53	22.31	22.31	22.24	22.26

- c. The highest RF output power's test modes were chosen for testing .

d. Test Mode for radiated emission and conducted emission:

Radiated Emission	Mode 1: 11a_Tx_CH036_5180 MHz Mode 2: 11a_Tx_CH040_5200 MHz Mode 3: 11a_Tx_CH044_5220 MHz Mode 4: 11(n)a 20M_Tx_CH036_5180 MHz Mode 5: 11(n)a 20M_Tx_CH040_5200 MHz Mode 6: 11(n)a 20M_Tx_CH044_5220 MHz Mode 7: 11(n)a 40M_Tx_CH038_5190 MHz Mode 8: 11(n)a 40M_Tx_CH044_5220 MHz Mode 9: 11(n)a 40M_Tx_CH044_5220 MHz(Module2)
Co-location	Mode 10 : 11(n)a 40M_TX_CH038_5190MHz + 11(n)a 40M_TX_CH044_5220MHz
Conducted Emission	Mode 1: 11a_TX Mode 2: 11(n)a 20M_TX Mode 3: 11(n)a 40M_TX

e. Frequency range investigated: conduction 150 KHz to 30 MHz, radiation 30 MHz to 40000MHz.

Note: 1. In the EUT, there are two identical WLAN modules which separately use six same dipole antennas .

2. The module 1 was chosen to be tested for full test modes, and then the module 2 was tested based on the module 1 's worst .

3. Only the two modules act same application mode, then the EUT can transmit simultaneously; the worst case for co-location was mode 10.

4. Test configurations for antenna mode and bandwidth mode :

Antenna Mode	Single (Tx)		Three (Tx)	
Bandwidth Mode	20MHz	40MHz	20MHz	40MHz
802.11a (5150~5250MHz)	V	X	X	X
802.11n (5725~5850MHz)	X	X	V	V

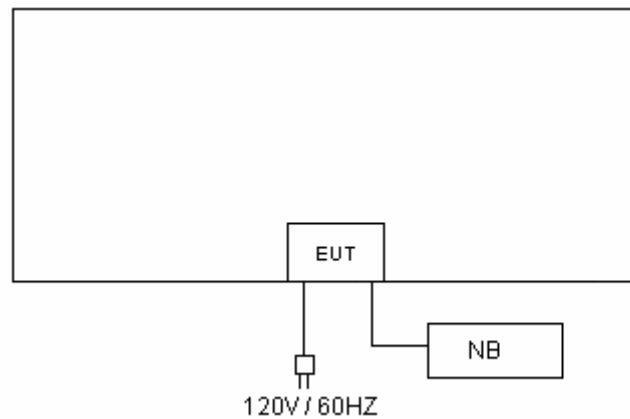
2.2 Description of Test System

Item	Equipment	Trade Name	Model Name	FCC ID	Power Cord / Cable
1.	Notebook	DELL	D400	E2K24GBRL	1.2m
2	iPod	Apple	A1199	DoC	1.2m
3	Mouse	State	MS-303	DoC	1.2m
4	WLAN AP	SMC	SMC-100	HEDWG4005ACC	1.8m

2.3 Connection Diagram of Test System

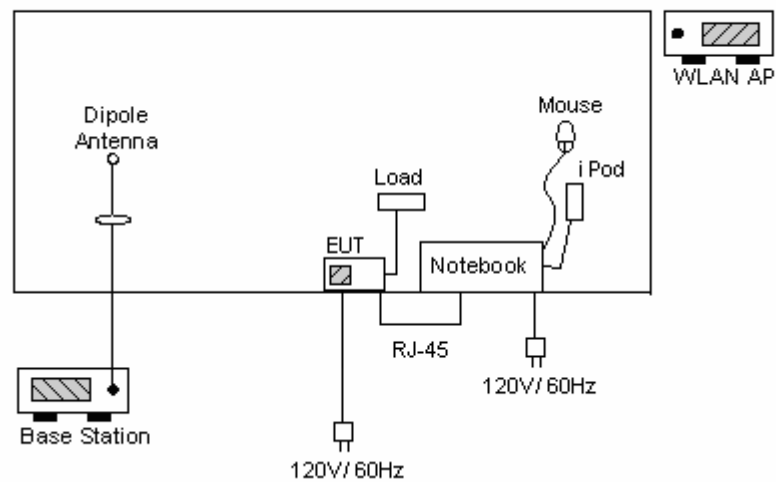
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< WLAN >

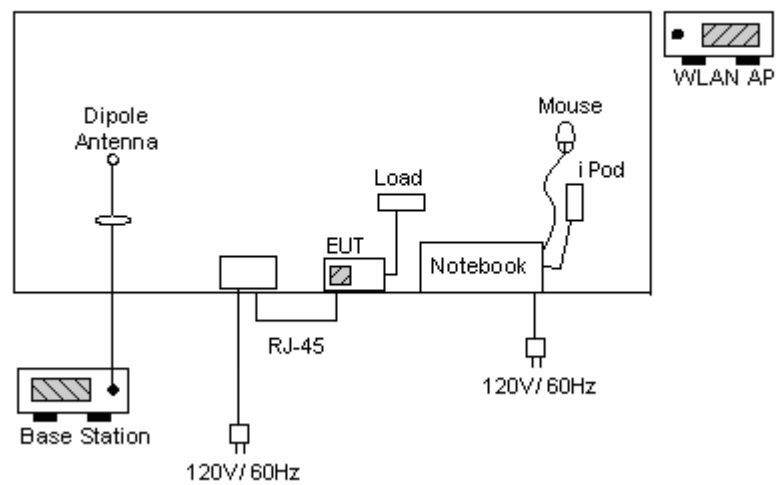


< Conducted Emission >

Mode 1



Mode 2



3. Operation of Equipment under Test

The programmed RF Utility is installed in EUT to provide channel selection, power level, data rate and the application type. RF Utility can send transmitting signal for all testings.

4. General Information of Test

Test Site Location : No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park,
Kwei-Shan Hsiag, Tao Yuan Hsien, Taiwan, R.O.C.
TEL : 886-3-327-3456
FAX : 886-3-318-0055
Test Site No : CO04-HY, 03CH04-HY

4.1 Test Voltage

AC 120V / 60Hz

4.2 Standard for Methods of Measurement

ANSI C63.4-2003

4.3 Test in Compliance with

FCC Part 15, Subpart E

4.4 Frequency Range Investigated

- a. Conduction: from 150 kHz to 30 MHz
- b. Radiation: from 30MHz to 40GHz

4.5 Test Distance

The test distance of radiated emission from antenna to EUT is 3 M.

5. Report of Measurements and Examinations

5.1 List of Measurements and Examinations

FCC Rule	Description of Test	Result
15.407(b)(5)	Conducted Emission	Pass
15.407(a)(1)(2)	Peak Transmit Power	Pass
15.407(b)(1)(2)(5)	Radiated Emission	Pass
15.407(a)(1)(2)	Power Spectral Density	Pass
15.407(b)(1)(2)	Band Edges Measurement	Pass
15.407(a)(1)(2)	Antenna Requirement	Pass
15.407(a)(6)	Peak Excursion Ratio Measurement	Pass
15.407(c)	Automatically Discontinue Transmission	Pass

5.2 Emission Bandwidth

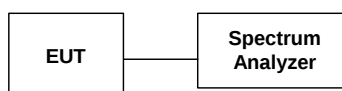
5.2.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.2.2 Test Procedure :

The transmitter output is connected to the spectrum analyzer. For these tests, the resolution bandwidth is 1 MHz, video bandwidth is 3MHz, peak detection and view function is used. The 26 dB bandwidth is defined as the frequency range where the power is higher than the peak power minus 26 dB.

Test Setup Layout :



5.2.3 Test Result :

- Temperature : 26~27°C
- Relative Humidity :49~50%

➤ 802.11a Normal mode

Channel	Frequency (MHz)	26dB Emission bandwidth (MHz)	Mode Ref. No.
36	5180	25.68	1
40	5200	26.64	2
44	5220	26.72	3

➤ **802.11n (a) 20M mode**

Channel	Frequency (MHz)	26dB Emission bandwidth (MHz)	Mode Ref. No.
36	5180	26.00	4
40	5200	26.72	5
44	5220	26.80	6

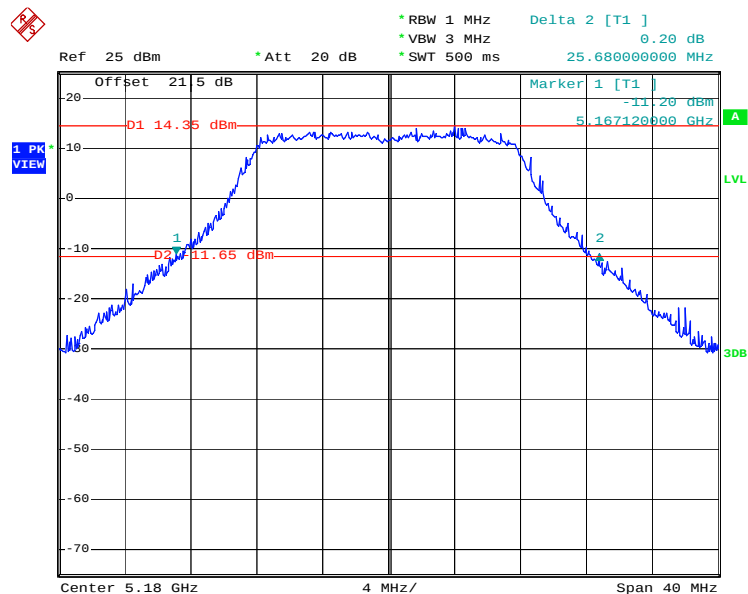
➤ **802.11n (a) 40M mode**

Channel	Frequency (MHz)	26dB Emission bandwidth (MHz)	Mode Ref. No.
38	5190	48.48	7
44	5220	48.64	8

5.2.4 Test Data

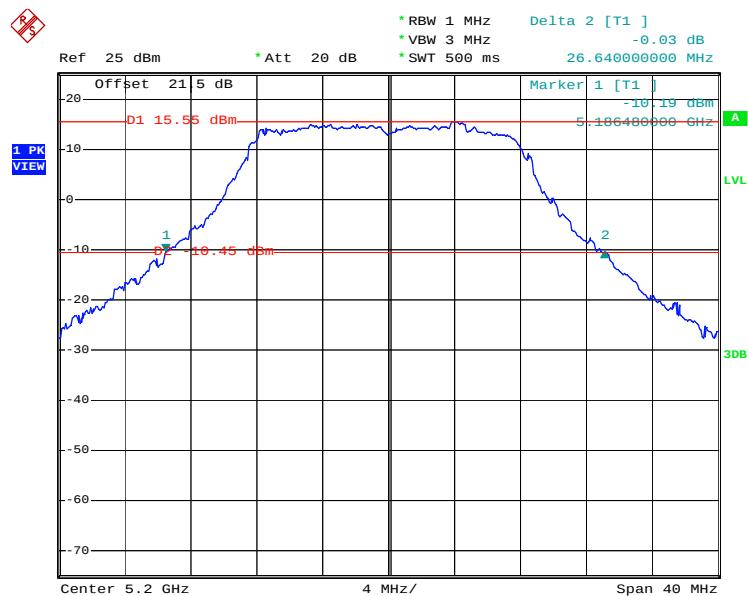
Mode Ref. No.

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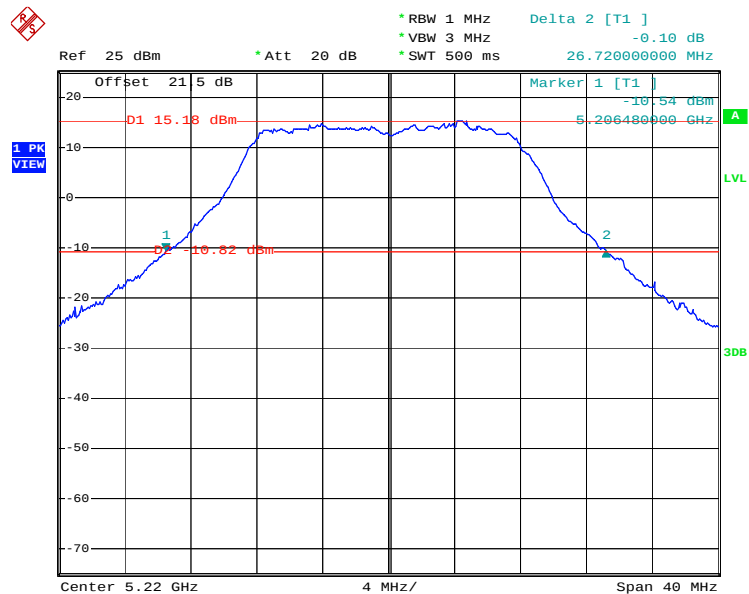


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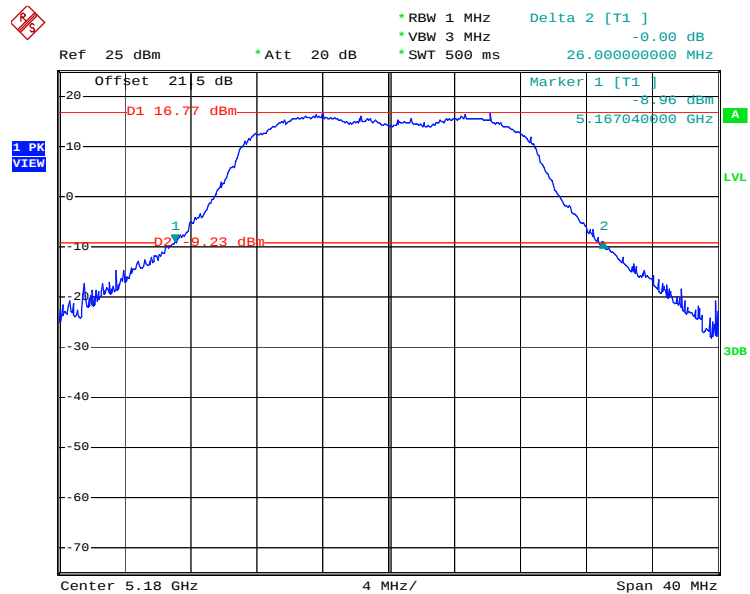


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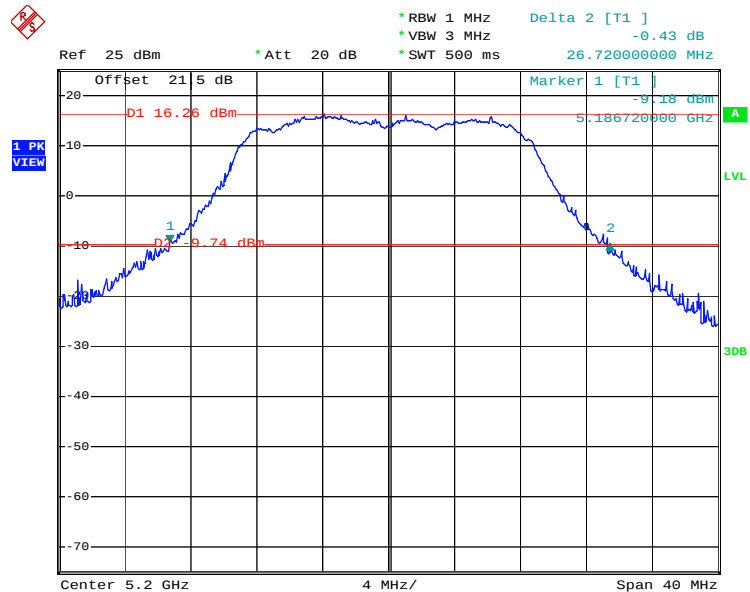
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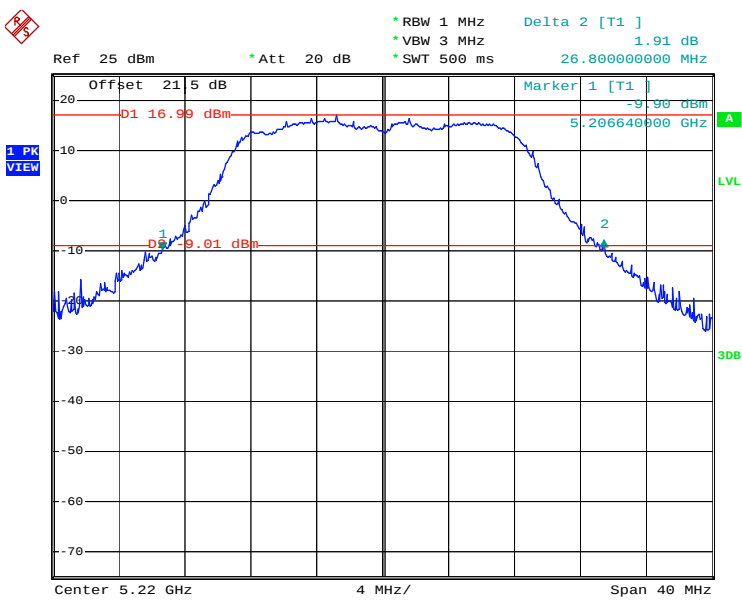
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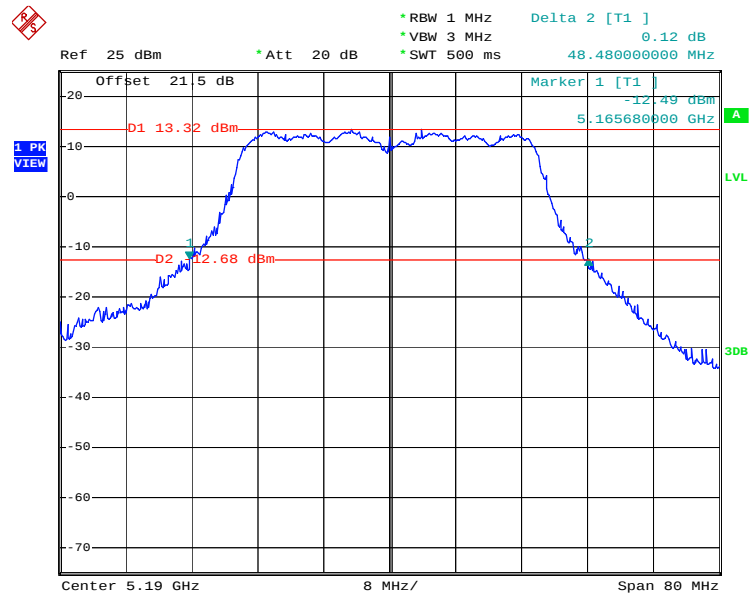
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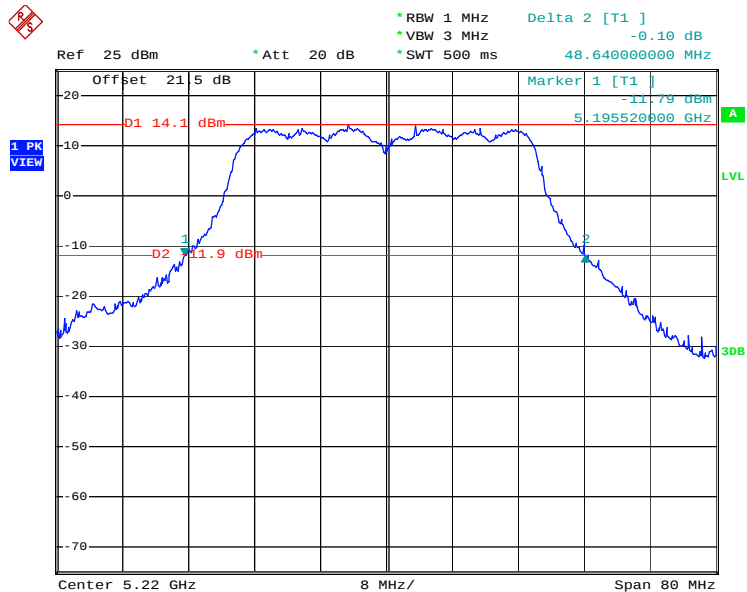
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5.3 Peak Transmit Power

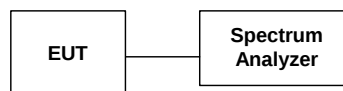
5.3.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.3.2 Test Procedure :

The transmitter output is connected to the spectrum analyzer. According to the method 3 of DA-02-2138, the resolution bandwidth is set to 1 MHz, video bandwidth is 1MHz, max hold to run for 60 seconds, and sample detection is used. The peak power is measured by channel power integration over the previously measured emissions bandwidth..

5.3.3 Test Setup Layout :



5.3.4 Test Result :

- Temperature : 26~27℃
- Relative Humidity :49~50%

➤ 802.11a Normal mode

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (dBm)	Mode Ref. No.
36	5180	12.17	17.00	1
40	5200	11.07	17.00	2
44	5220	11.46	17.00	3

➤ 802.11n(a) 20M mode

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (dBm)	Mode Ref. No.
36	5180	10.20	17.00	4
40	5200	10.89	17.00	5
44	5220	11.15	17.00	6

➤ 802.11n(a) 40M mode

Channel	Frequency (MHz)	Measured Output Power (dBm)	Limits (dBm)	Mode Ref. No.
38	5190	8.41	17.00	7
44	5220	8.45	17.00	8

Comments : The peak transmit power shall not exceed the lesser of 17dBm or 4dBm+10logB in 5150~5250 band.

24dBm or 11+10logB in 5250~5350 band

5180MHz 4dBm + 10log(25.68 MHz) = 28.096 dBm for mode 1

5200MHz 4dBm + 10log(26.64 MHz) = 28.255 dBm for mode 2

5220MHz 4dBm + 10log(26.72 MHz) = 28.268 dBm for mode 3

5180MHz 4dBm + 10log(26.00 MHz) = 28.150 dBm for mode 4

5200MHz 4dBm + 10log(26.72 MHz) = 28.268 dBm for mode 5

5220MHz 4dBm + 10log(26.80 MHz) = 28.281 dBm for mode 6

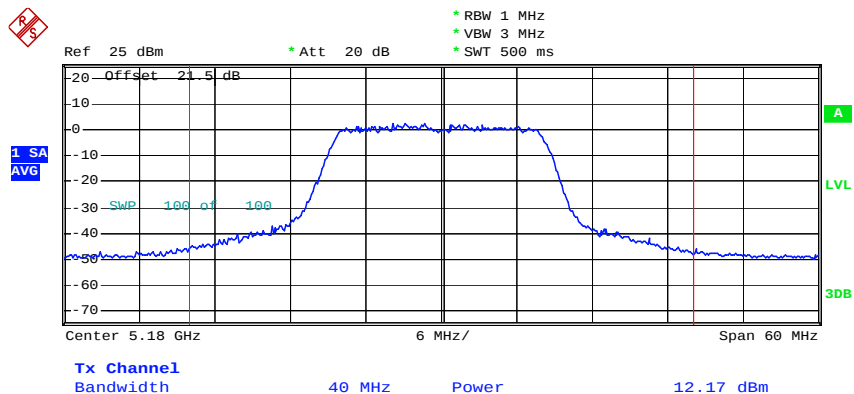
5190MHz 4dBm + 10log(48.48 MHz) = 30.856 dBm for mode 7

5220MHz 4dBm + 10log(48.64 MHz) = 30.870 dBm for mode 8

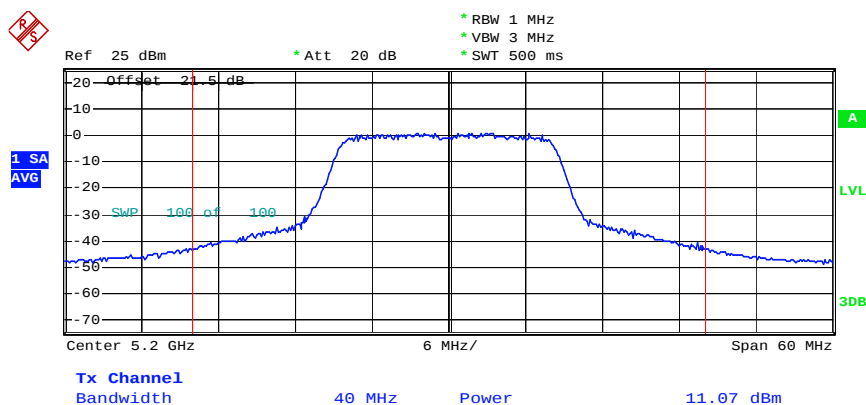
5.3.5 Test Data

Mode Ref. No.

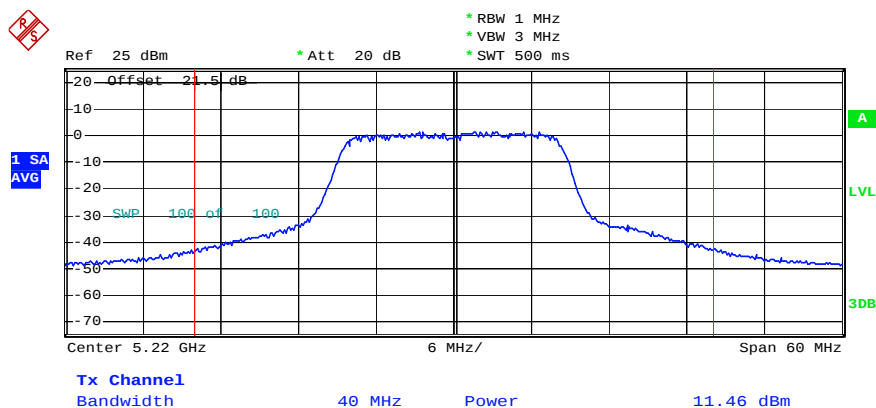
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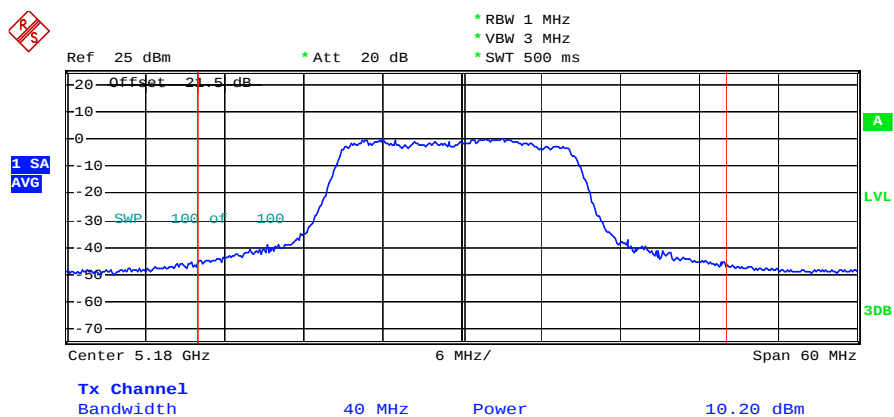
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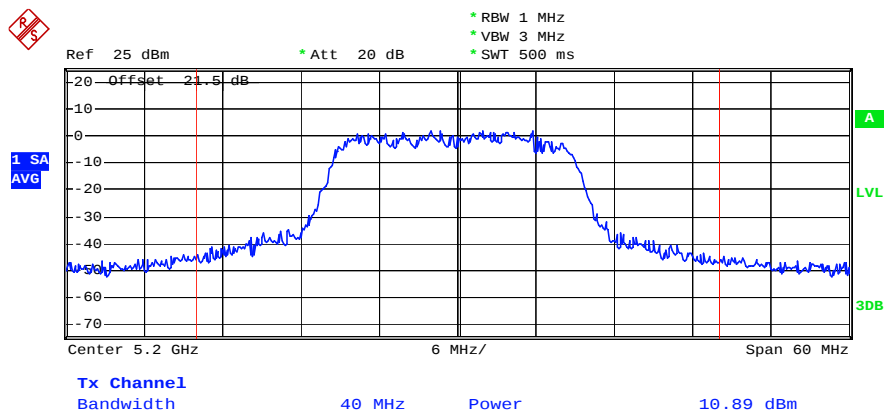
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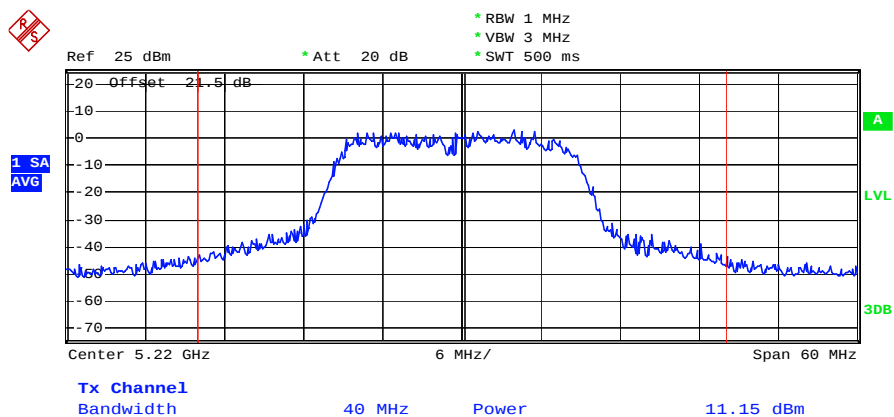
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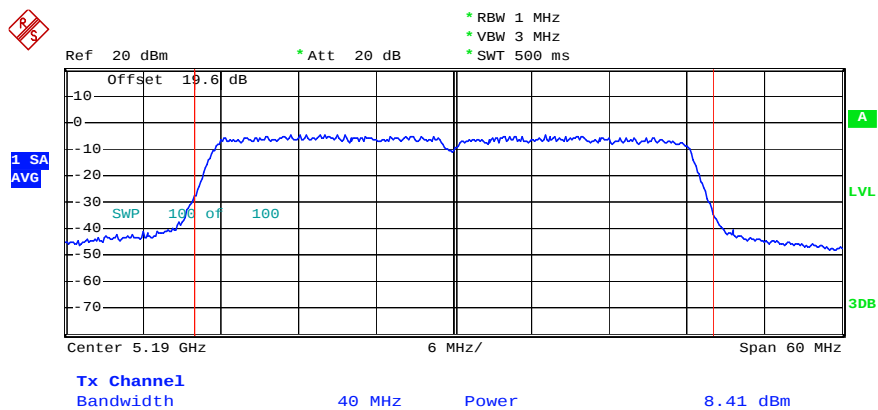
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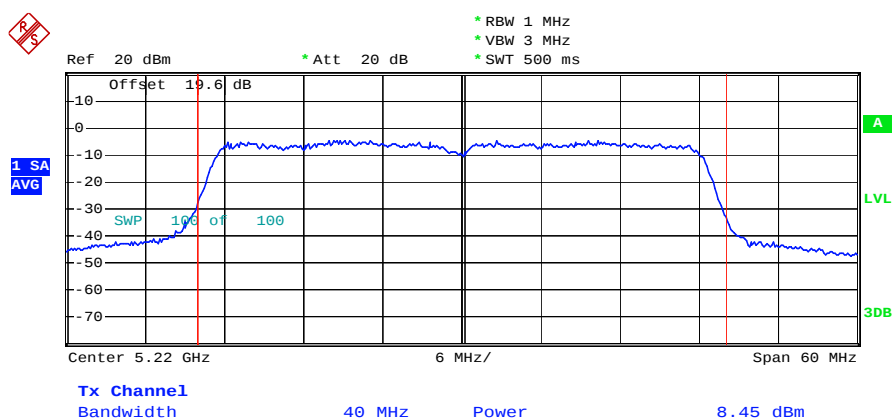
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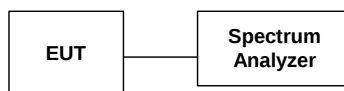
5.4 Peak Power Spectral Density

5.4.1 Measuring Instruments :

As described in chapter 6 of this test report.

5.4.2 Test Procedure :

The transmitter output is connected to the spectrum analyzer. According to the method 3 of DA-02-2138, the resolution bandwidth is set to 1 MHz, video bandwidth is 3MHz, trace average 100 traces in power averaging mode, and sample detection is used, and the analyzer is set for video averaging.



5.4.3 Test Result :

- Temperature : 26~27°C
- Relative Humidity :49~50%

➤ 802.11a Normal mode

Channel	Frequency (MHz)	Power Spectral Density	Limits	Mode
		(dBm)	(dBm)	Ref. No.
36	5180	2.32	4	1
40	5200	-1.38	4	2
44	5220	-0.13	4	3

➤ 802.11n(a) 20M mode

Channel	Frequency (MHz)	Power Spectral Density	Limits	Mode
		(dBm)	(dBm)	Ref. No.
36	5180	0.85	4	4
40	5200	0.38	4	5
44	5220	1.26	4	6

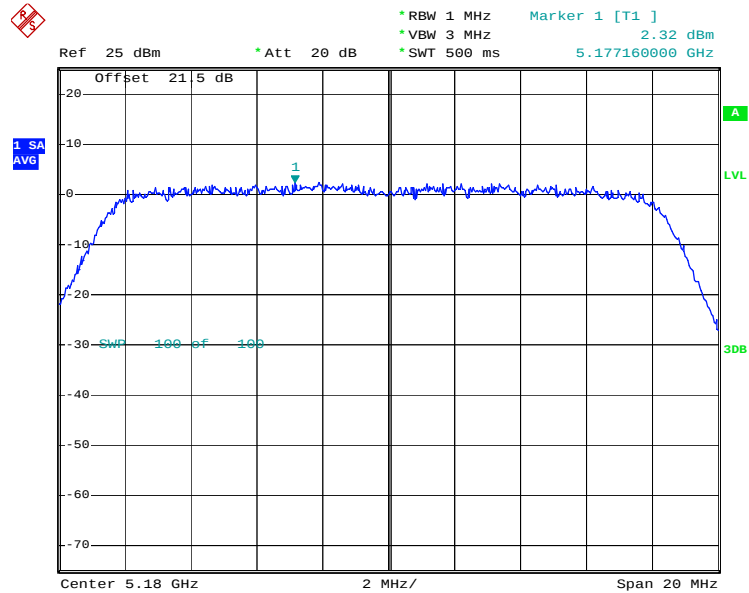
➤ 802.11n(a) 40M mode

Channel	Frequency (MHz)	Power Spectral Density	Limits	Mode
		(dBm)	(dBm)	Ref. No.
38	5190	-4.66	4	7
44	5220	-4.25	4	8

5.4.4 Test Data

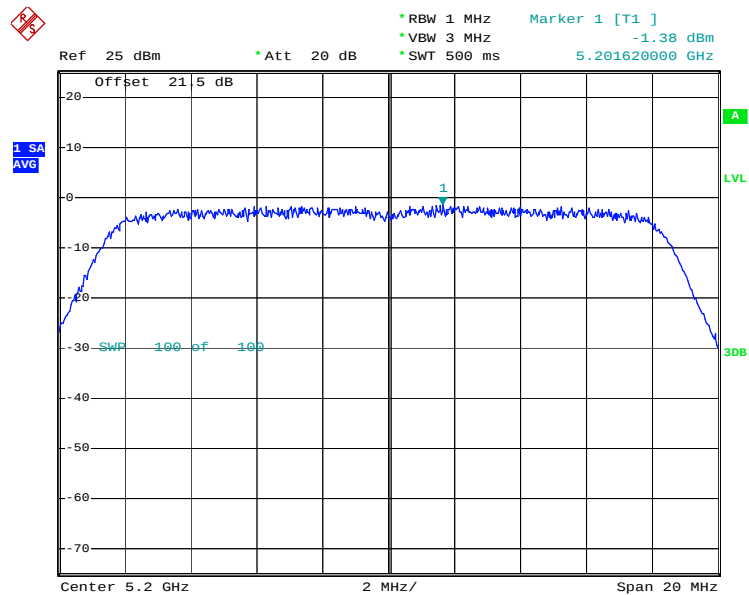
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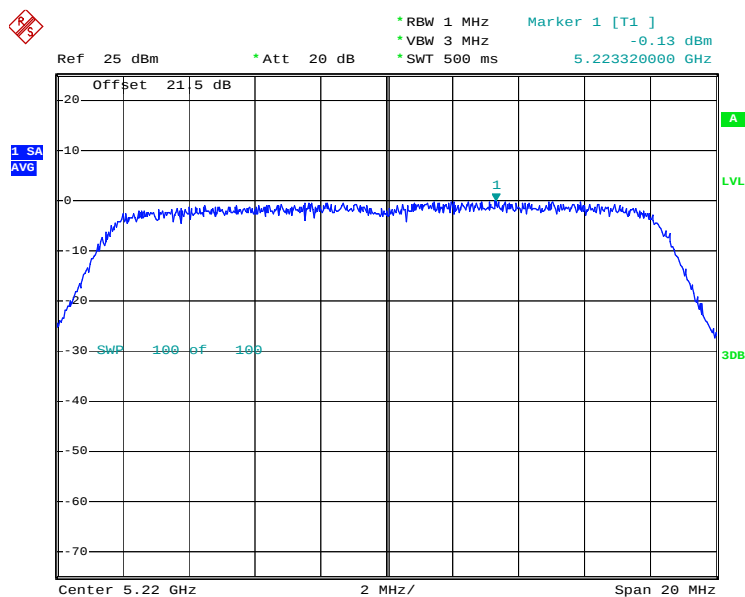


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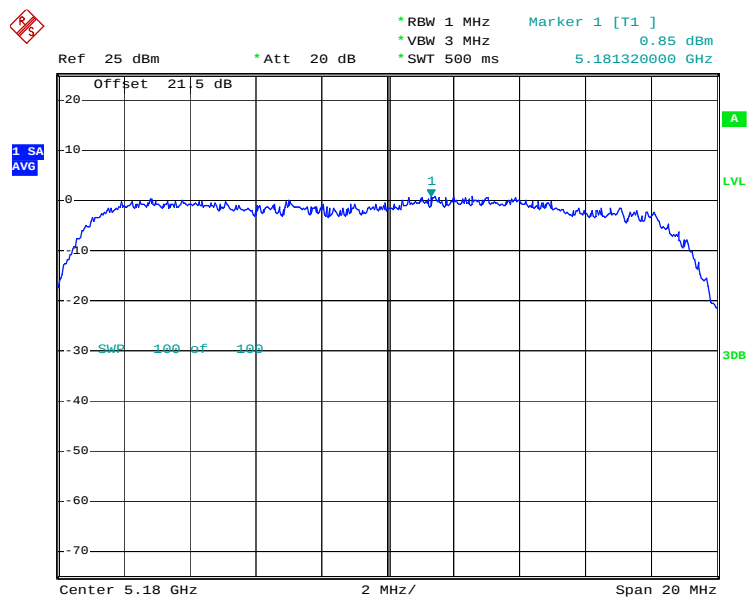


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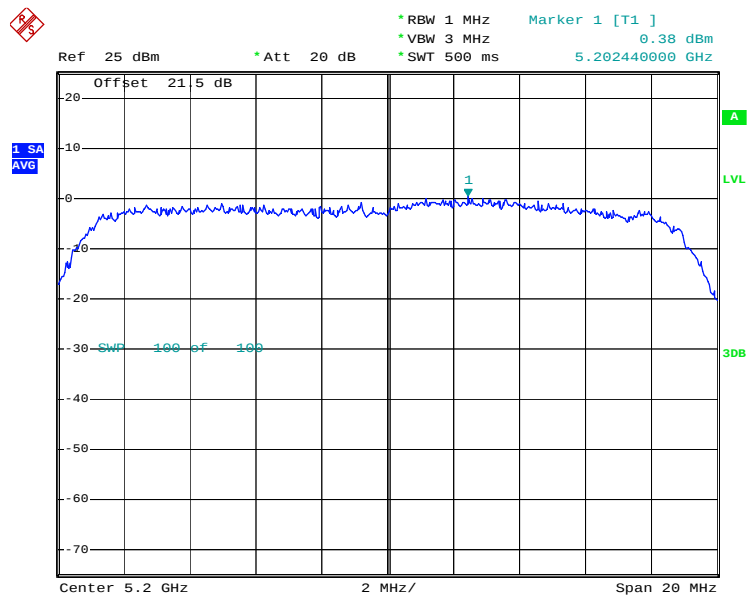
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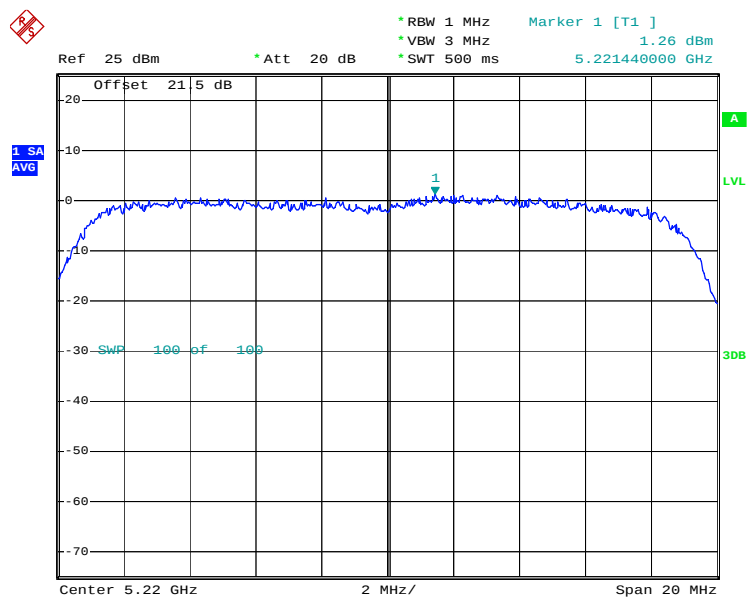


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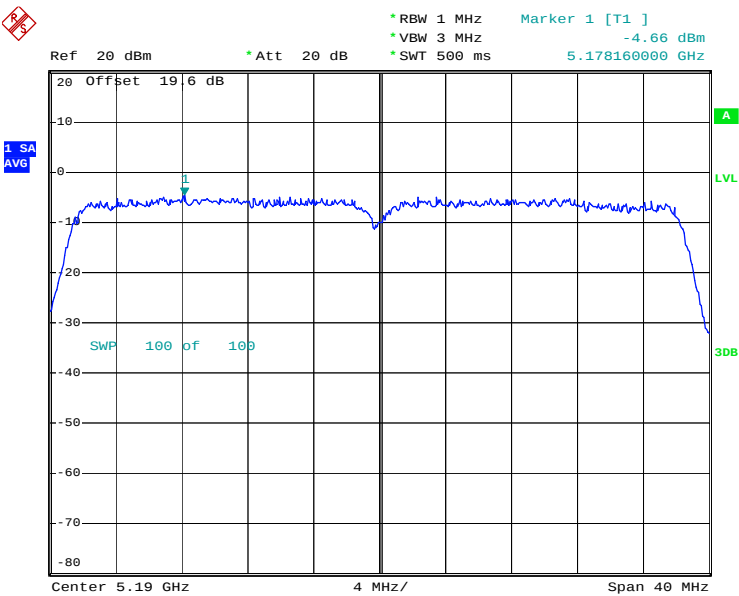


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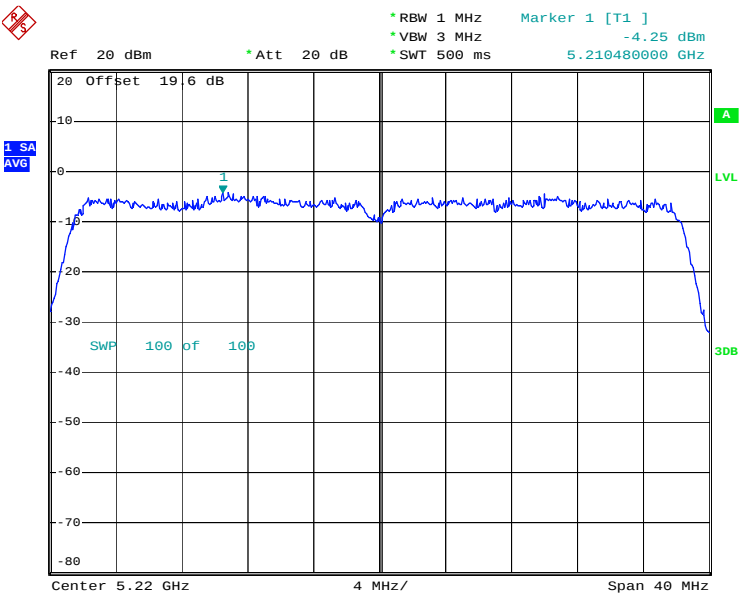
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5.5 Test of Conducted Emission

As described in chapter 6 of this test report.

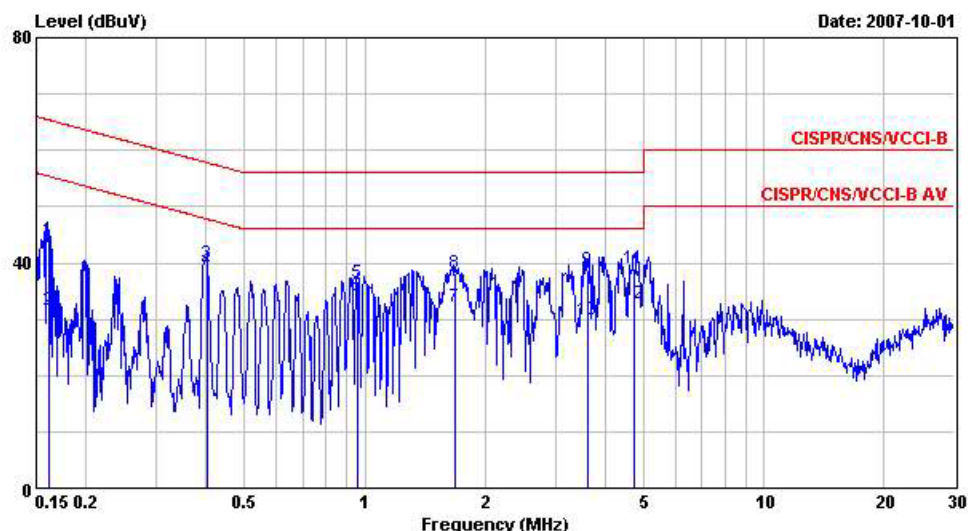
5.5.1 Test Procedures :

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power port of a line impedance stabilization network (LISN).
3. All the support units are connected to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

5.5.2 Test Data

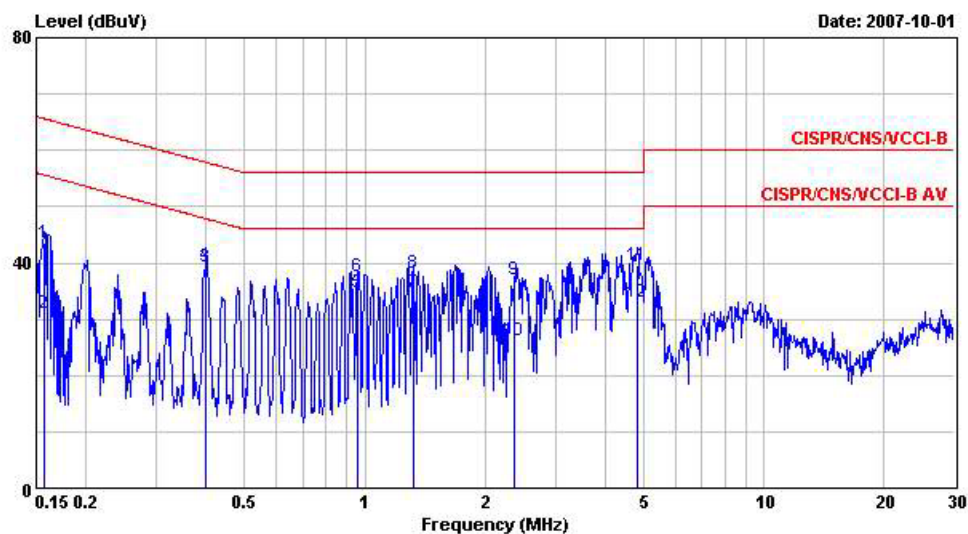
- Frequency Range of Test : 150kHz to 30 MHz
- Test Mode : Mode 1
- Temperature : 25~26 °C
- Relating Humidity : 51~53 %
- Test Enginner : Sun

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 LINE
 EUT : AP
 Power : 120Vac/60Hz
 Model : FR 791302
 Memo : WLAN Link+LAN+Adaptor

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1615020	44.16	-21.23	65.39	43.92	0.10	0.14	QP
2	0.1615020	31.60	-23.79	55.39	31.36	0.10	0.14	Average
3	0.4018680	39.86	-17.95	57.81	39.03	0.10	0.73	QP
4	0.4018680	38.69	-9.12	47.81	37.86	0.10	0.73	Average
5	0.9581900	36.54	-19.46	56.00	35.98	0.10	0.46	QP
6	0.9581900	34.25	-11.75	46.00	33.69	0.10	0.46	Average
7	1.683	32.06	-13.94	46.00	31.53	0.10	0.43	Average
8	1.683	38.01	-17.99	56.00	37.48	0.10	0.43	QP
9	3.626	38.68	-17.32	56.00	38.24	0.10	0.34	QP
10	3.626	29.80	-16.20	46.00	29.36	0.10	0.34	Average
11	4.746	38.91	-17.09	56.00	38.49	0.12	0.30	QP
12	4.746	32.84	-13.16	46.00	32.42	0.12	0.30	Average

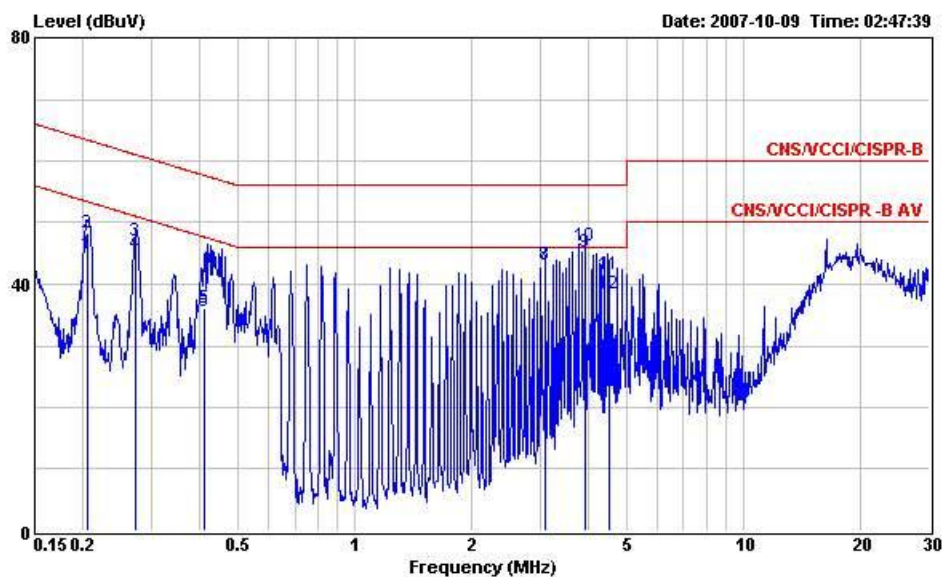


Site : CO04-HY
 Condition : CISPR/CNS/VCCI-B LISN 200704 99041 NEUTRAL
 EUT : AP
 Power : 120Vac/60Hz
 Model : FR 791302
 Memo : WLAN Link+LAN+Adaptor

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.1573260	43.53	-22.07	65.60	43.29	0.10	0.14	QP
2	0.1573260	31.17	-24.43	55.60	30.93	0.10	0.14	Average
3	0.3997440	39.35	-8.51	47.86	38.52	0.10	0.73	Average
4	0.3997440	39.54	-18.32	57.86	38.71	0.10	0.73	QP
5	0.9620310	34.87	-11.13	46.00	34.32	0.10	0.45	Average
6	0.9620310	37.68	-18.32	56.00	37.13	0.10	0.45	QP
7	1.320	34.80	-11.20	46.00	34.26	0.10	0.44	Average
8	1.320	38.20	-17.80	56.00	37.66	0.10	0.44	QP
9	2.373	36.99	-19.01	56.00	36.47	0.12	0.40	QP
10	2.373	26.24	-19.76	46.00	25.72	0.12	0.40	Average
11	4.812	39.64	-16.36	56.00	39.12	0.22	0.30	QP
12	4.812	33.02	-12.98	46.00	32.50	0.22	0.30	Average

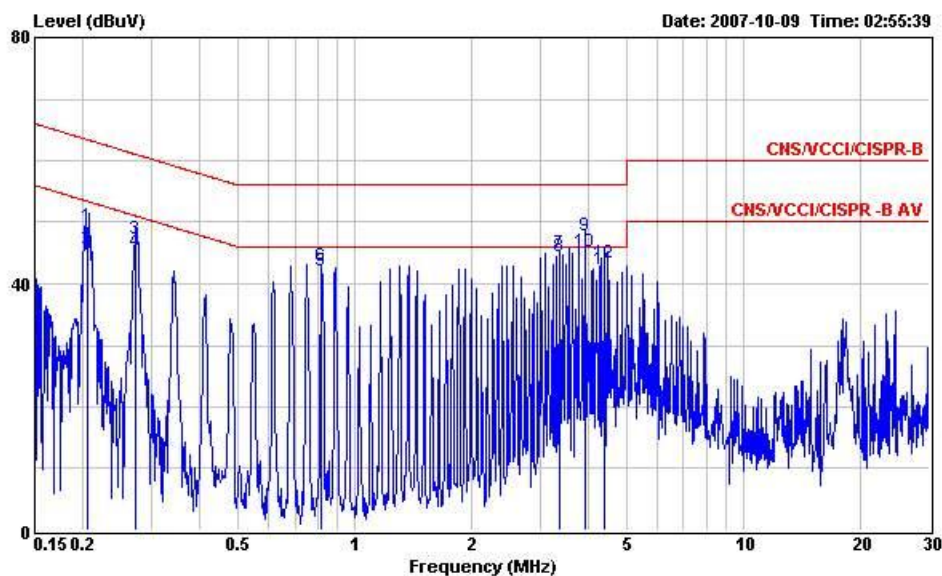
- Frequency Range of Test : 150kHz to 30 MHz
- Test Mode : Mode 2
- Temperature : 25~26 °C
- Relative Humidity : 51~53 %
- Test Engineer : Sun

■ The test that passed at minimum margin was marked by the frame in the following table.



Site : CO04-HY
 Condition : CNS/VCCI/CISPR-B 2001/004 200604 LINE
 EUT : AP
 Power : 120Vac/60Hz
 Power : FD 791302
 Memo : WLAN Link+POE+LAN+Adaptor

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.206	45.03	-8.34	53.37	44.85	0.08	0.10	Average
2	0.206	48.42	-14.95	63.37	48.24	0.08	0.10	QP
3	0.273	47.09	-13.94	61.03	46.89	0.10	0.10	QP
4	0.273	44.91	-6.12	51.03	44.71	0.10	0.10	Average
5	0.411	36.10	-21.53	57.63	35.88	0.12	0.10	QP
6	0.411	35.58	-12.05	47.63	35.36	0.12	0.10	Average
7	3.080	43.11	-12.89	56.00	42.69	0.26	0.16	QP
8	3.080	42.99	-3.01	46.00	42.57	0.26	0.16	Average
9	3.900	45.16	-0.84	46.00	44.63	0.33	0.20	Average
10	3.900	46.26	-9.74	56.00	45.73	0.33	0.20	QP
11	4.514	41.53	-14.47	56.00	40.99	0.33	0.21	QP
12	4.514	38.37	-7.63	46.00	37.83	0.33	0.21	Average



Site : CO04-HY
 Condition : CNS/VCCI/CISPR-B 2001/004 200604 NEUTRAL
 EUT : AP
 Power : 120Vac/60Hz
 Power : FR 791302
 Memo : WLAN Link+POE+LAN+Adaptor

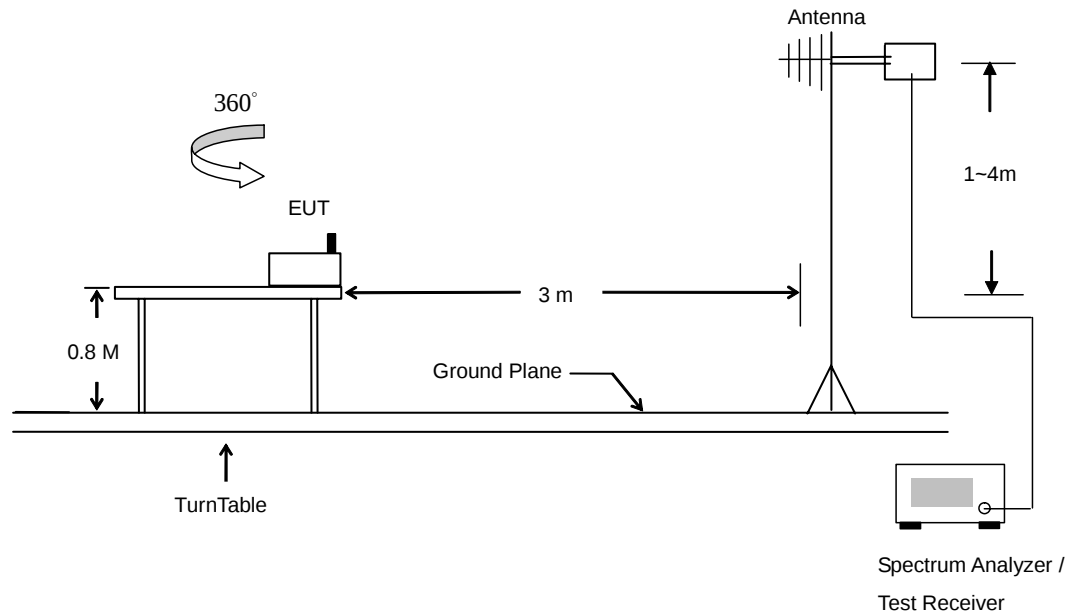
	Freq	Level	Over	Limit	Read	Cable	Probe	
	MHz	dBuV	Limit	Line	Level	Loss	Factor	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.206	49.33	-14.04	63.37	49.15	0.08	0.10	QP
2	0.206	45.82	-7.55	53.37	45.64	0.08	0.10	Average
3	0.272	47.36	-13.70	61.06	47.16	0.10	0.10	QP
4	0.272	45.22	-5.84	51.06	45.02	0.10	0.10	Average
5	0.822	42.17	-13.83	56.00	41.91	0.16	0.10	QP
6	0.822	42.94	-3.06	46.00	42.68	0.16	0.10	Average
7	3.350	44.87	-11.13	56.00	44.48	0.29	0.10	QP
8	3.350	44.30	-1.70	46.00	43.91	0.29	0.10	Average
9	3.900	47.74	-8.26	56.00	47.31	0.33	0.10	QP
10	3.900	45.07	-0.93	46.00	44.64	0.33	0.10	Average
11	4.380	42.25	-3.75	46.00	41.81	0.33	0.11	Average
12	4.380	43.49	-12.51	56.00	43.05	0.33	0.11	QP

5.6 Test of Radiated Emission

As described in chapter 6 of this test report.

5.6.1 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- e. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. For testing below 1GHz, If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

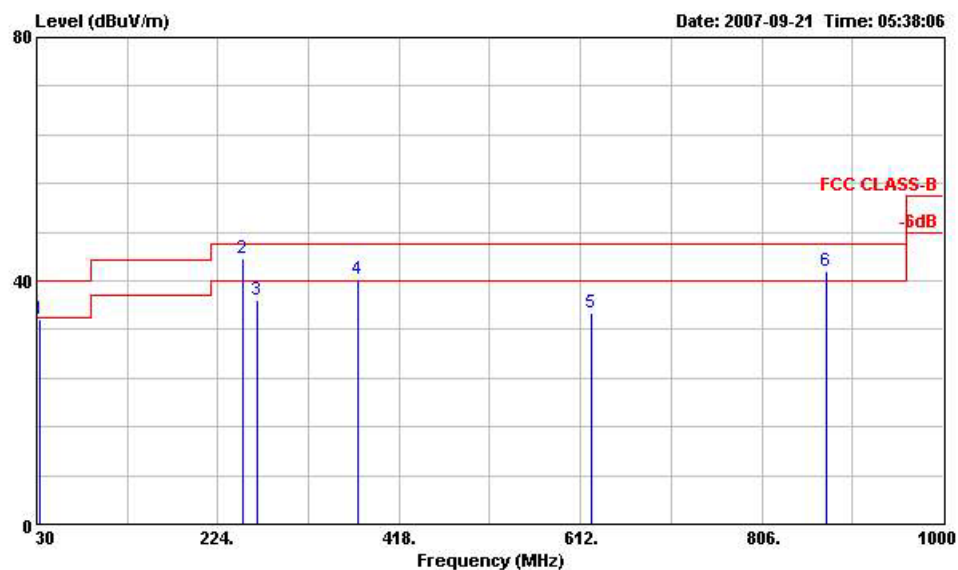
5.6.2 Typical Test Setup Layout of Radiated Emission

5.6.3 Test Data

➤ Test Mode : Mode 1

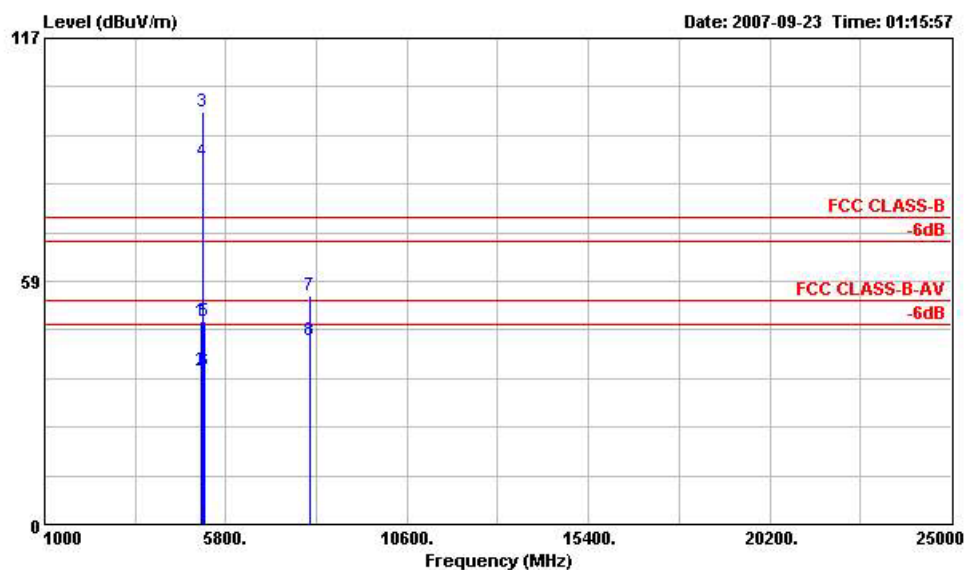
- Temperature : 26~27°C
- Relative Humidity :49~50%
- Test Engineer : Derek
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11a Tx_Ch36;5180MHz
 Data Rate: 24

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	32.700	33.66	-6.34	40.00	43.10	16.33	0.90	26.66	---	--- Peak
2 !	250.050	43.65	-2.35	46.00	54.94	12.57	2.05	25.91	100	245 QP
3	266.250	36.87	-9.13	46.00	48.13	12.48	2.11	25.85	---	--- Peak
4 !	374.200	40.21	-5.79	46.00	49.08	14.88	2.49	26.24	---	--- Peak
5	624.100	34.73	-11.27	46.00	38.55	19.96	3.26	27.04	---	--- Peak
6 !	875.400	41.45	-4.55	46.00	41.58	22.62	3.92	26.67	---	--- Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 NOME : 11a Tx_Ch36;5180MHz
 Data Rate: 24

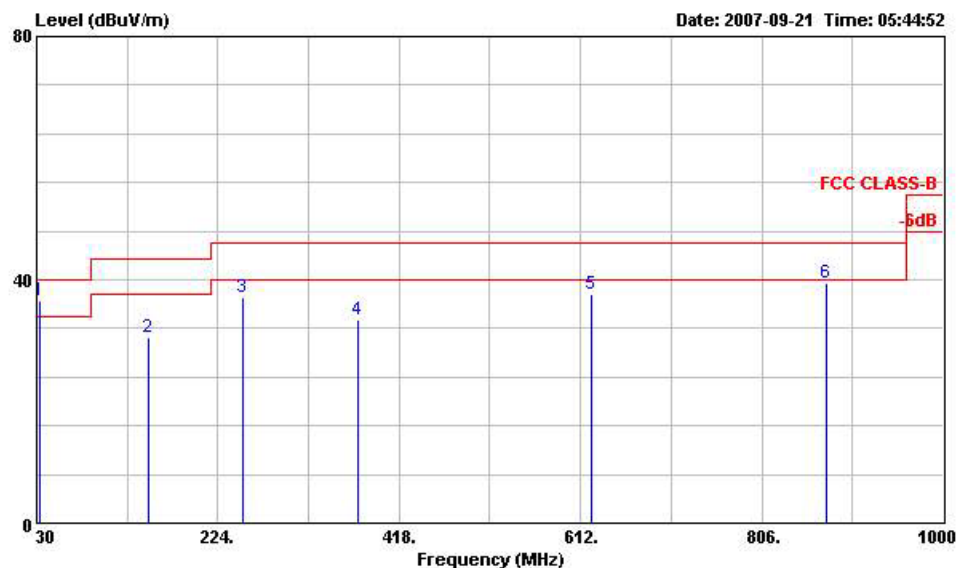
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5150.000	48.80	-25.20	74.00	43.66	33.38	6.00	34.24	100	0 Peak
2	5150.000	37.06	-16.94	54.00	31.92	33.38	6.00	34.24	100	334 Average
3 X	5180.000	99.13			93.94	33.42	6.00	34.23	100	0 Peak
4 X	5180.000	87.29			82.10	33.42	6.00	34.23	100	334 Average
5	5250.000	48.87	-25.13	74.00	43.56	33.50	6.00	34.19	100	0 Peak
6	5250.000	36.98	-17.02	54.00	31.67	33.50	6.00	34.19	100	334 Average
7	8022.000	54.89	-19.11	74.00	44.89	36.82	6.77	33.60	100	0 Peak
8	8022.000	44.24	-9.76	54.00	34.24	36.82	6.77	33.60	100	242 Average

※Remark: #3 and #4 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

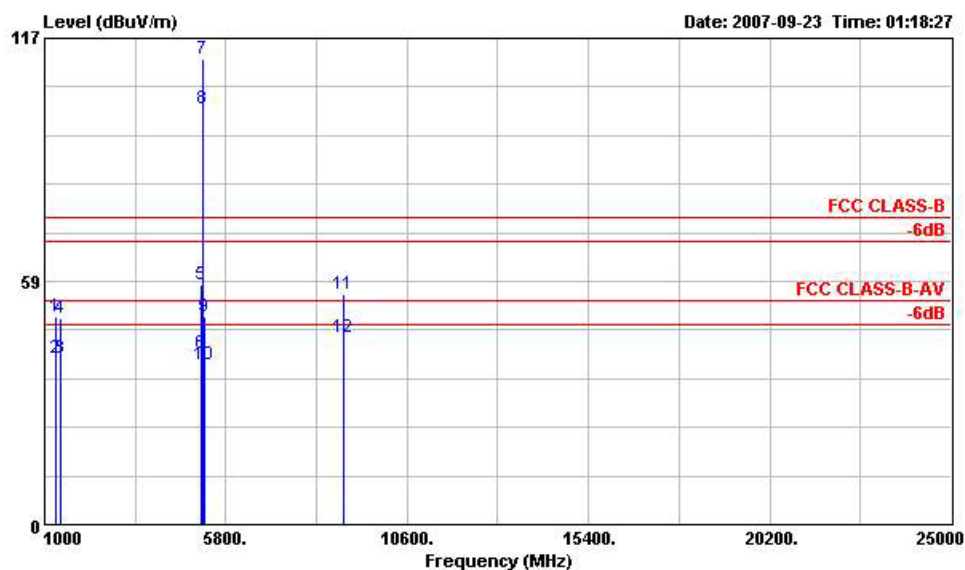
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 HOME : 11a Tx_Ch36;5180MHz
 Data Rate: 24

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 !	32.700	36.45	-3.55	40.00	45.89	16.33	0.90	26.66	100	96 QP
2	149.340	30.40	-13.10	43.50	44.27	10.75	1.66	26.28	---	--- Peak
3	250.050	37.22	-8.78	46.00	48.51	12.57	2.05	25.91	---	--- Peak
4	374.200	33.31	-12.69	46.00	42.18	14.88	2.49	26.24	---	--- Peak
5	624.100	37.54	-8.46	46.00	41.36	19.96	3.26	27.04	---	--- Peak
6	875.400	39.35	-6.65	46.00	39.48	22.62	3.92	26.67	---	--- Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 NOME : 11a Tx_Ch36;5180MHz
 Data Rate: 24

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1316.000	50.05	-23.95	74.00	56.60	24.85	2.57	33.98	100	0 Peak
2	1316.000	40.12	-13.88	54.00	46.67	24.85	2.57	33.98	100	338 Average
3	1414.000	39.84	-14.16	54.00	45.92	25.08	2.68	33.84	100	223 Average
4	1414.000	49.84	-24.16	74.00	55.92	25.08	2.68	33.84	100	0 Peak
5	5150.000	57.76	-16.24	74.00	52.62	33.38	6.00	34.24	100	0 Peak
6	5150.000	41.08	-12.92	54.00	35.94	33.38	6.00	34.24	100	106 Average
7 X	5180.000	111.93			106.74	33.42	6.00	34.23	100	0 Peak
8 @	5180.000	99.98			94.79	33.42	6.00	34.23	100	106 Average
9	5250.000	50.05	-23.95	74.00	44.74	33.50	6.00	34.19	100	0 Peak
10	5250.000	38.65	-15.35	54.00	33.34	33.50	6.00	34.19	100	106 Average
11	8918.000	55.37	-18.63	74.00	44.88	38.00	7.23	34.74	100	0 Peak
12	8918.000	45.21	-8.79	54.00	34.72	38.00	7.23	34.74	100	124 Average

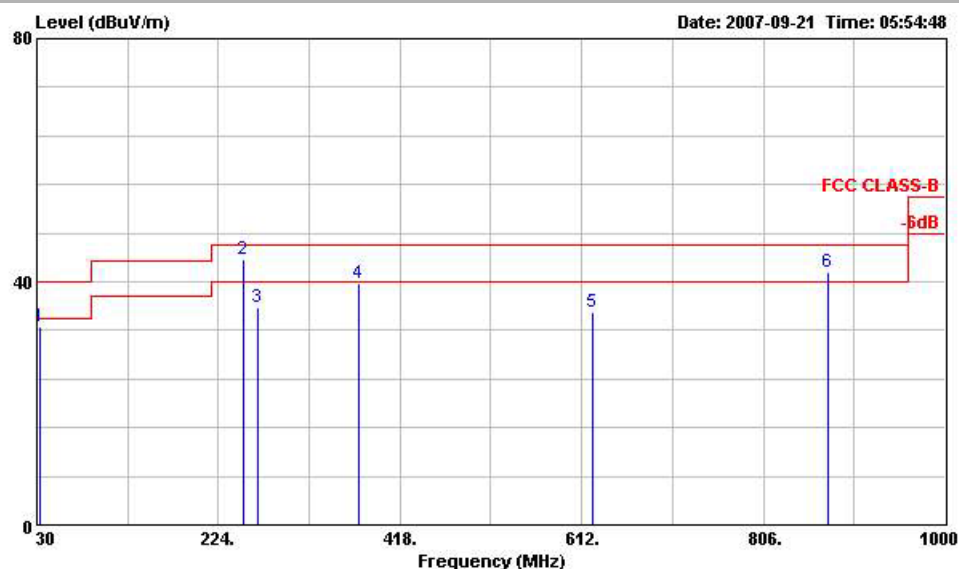
※Remark: #7and #8 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

➤ Test Mode : Mode 2

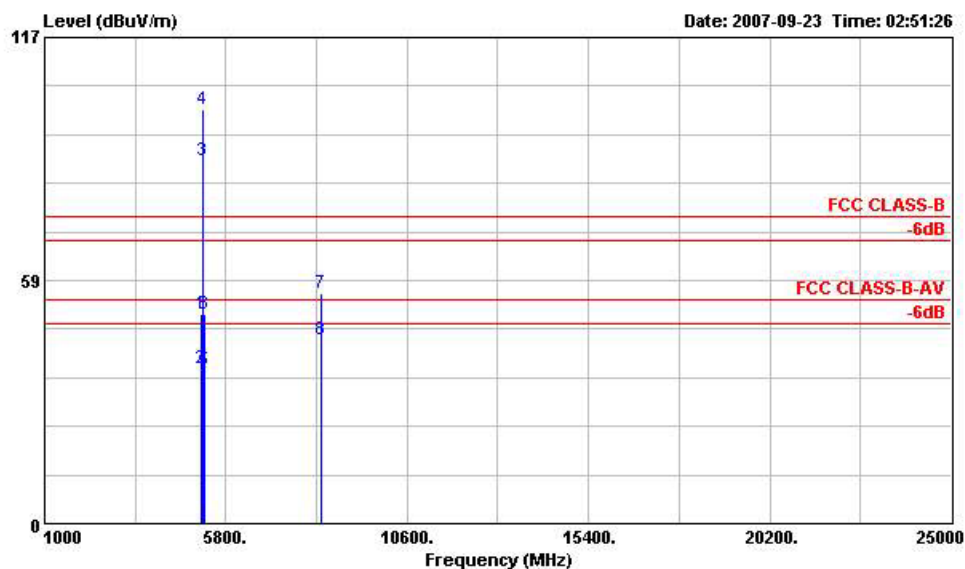
- Temperature : 26~27°C
- Relative Humidity : 49~50%
- Test Engineer : Derek
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/ 60Hz
 MODEL : FR 791302
 MOME : 11a Tx_Ch40;5200MHz
 Data Rate: 24

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Ant Table				
	MHz	dBuV/m	dB	dBuV/m	Level Factor	Loss Factor	Pos	Pos	Remark		
					dBuV	dB/m	dB	dB	cm	deg	
1	32.700	32.70	-7.30	40.00	42.14	16.33	0.90	26.66	---	---	Peak
2 !	250.050	43.65	-2.35	46.00	54.94	12.57	2.05	25.91	100	236	QP
3	266.250	35.73	-10.27	46.00	46.99	12.48	2.11	25.85	---	---	Peak
4	374.200	39.84	-6.16	46.00	48.71	14.88	2.49	26.24	---	---	Peak
5	624.100	34.96	-11.04	46.00	38.78	19.96	3.26	27.04	---	---	Peak
6 !	875.400	41.64	-4.36	46.00	41.77	22.62	3.92	26.67	---	---	Peak



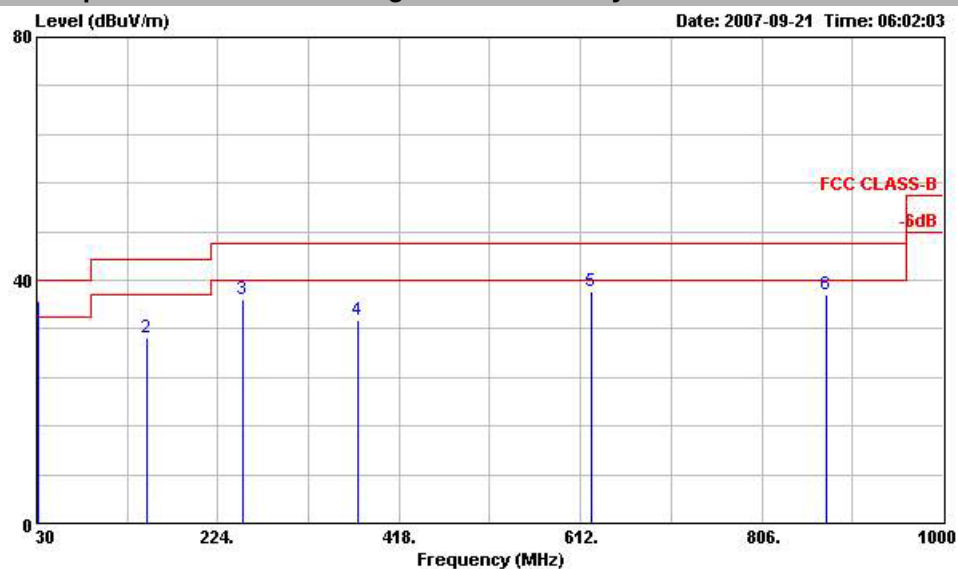
Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11a Tx_Ch40;5200MHz
 Data Rate: 24

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5150.000	50.44	-23.56	74.00	45.30	33.38	6.00	34.24	100	0 Peak
2	5150.000	37.20	-16.80	54.00	32.06	33.38	6.00	34.24	100	353 Average
3 X	5200.000	87.35			82.13	33.44	6.00	34.22	100	353 Average
4 X	5200.000	99.77			94.55	33.44	6.00	34.22	100	0 Peak
5	5250.000	37.08	-16.92	54.00	31.77	33.50	6.00	34.19	100	353 Average
6	5250.000	50.44	-23.56	74.00	45.13	33.50	6.00	34.19	100	0 Peak
7	8318.000	55.29	-18.71	74.00	45.24	37.23	6.92	34.11	100	0 Peak
8	8318.000	44.10	-9.90	54.00	34.05	37.23	6.92	34.11	100	231 Average

※ Remark: #3 and #4 Fundamental Signal
 Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

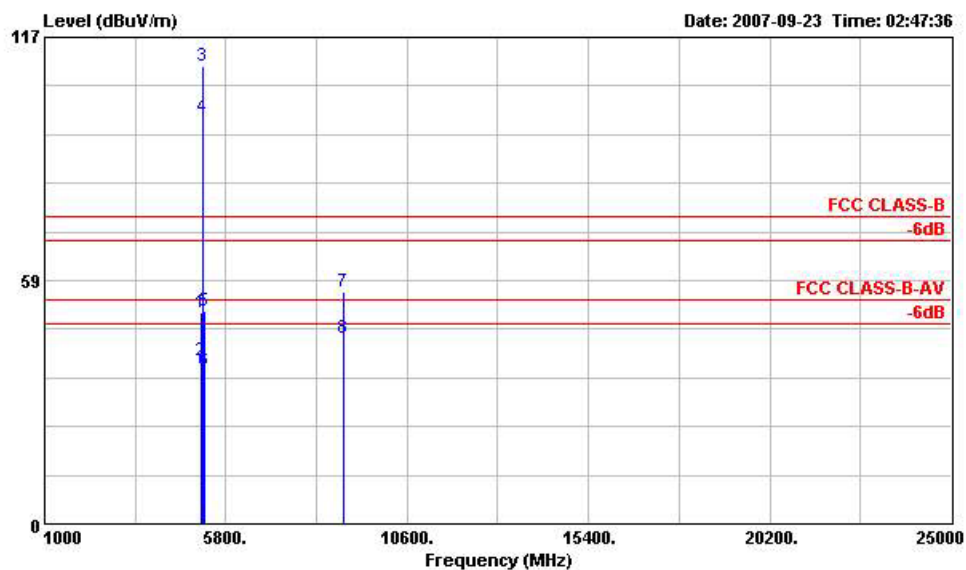
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 HOME : 11a Tx_Ch40;5200MHz
 Data Rate: 24

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 !	31.890	36.63	-3.37	40.00	46.06	16.34	0.89	26.66	100	75 QP
2	148.260	30.51	-12.99	43.50	44.40	10.74	1.65	26.28	---	---
3	250.050	36.74	-9.26	46.00	48.03	12.57	2.05	25.91	---	---
4	374.200	33.33	-12.67	46.00	42.20	14.88	2.49	26.24	---	---
5	624.100	38.19	-7.81	46.00	42.01	19.96	3.26	27.04	---	---
6	875.400	37.68	-8.32	46.00	37.81	22.62	3.92	26.67	---	---



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11a Tx_Ch40;5200MHz
 Data Rate: 24

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5150.000	50.78	-23.22	74.00	45.64	33.38	6.00	34.24	100	0 Peak
2	5150.000	39.07	-14.93	54.00	33.93	33.38	6.00	34.24	100	200 Average
3 X	5200.000	110.00			104.78	33.44	6.00	34.22	100	0 Peak
4 @	5200.000	97.72			92.50	33.44	6.00	34.22	100	200 Average
5	5250.000	51.26	-22.74	74.00	45.95	33.50	6.00	34.19	100	0 Peak
6	5250.000	37.03	-16.97	54.00	31.72	33.50	6.00	34.19	100	200 Average
7	8902.000	55.84	-18.16	74.00	45.36	37.98	7.22	34.72	100	0 Peak
8	8902.000	44.57	-9.43	54.00	34.09	37.98	7.22	34.72	100	124 Average

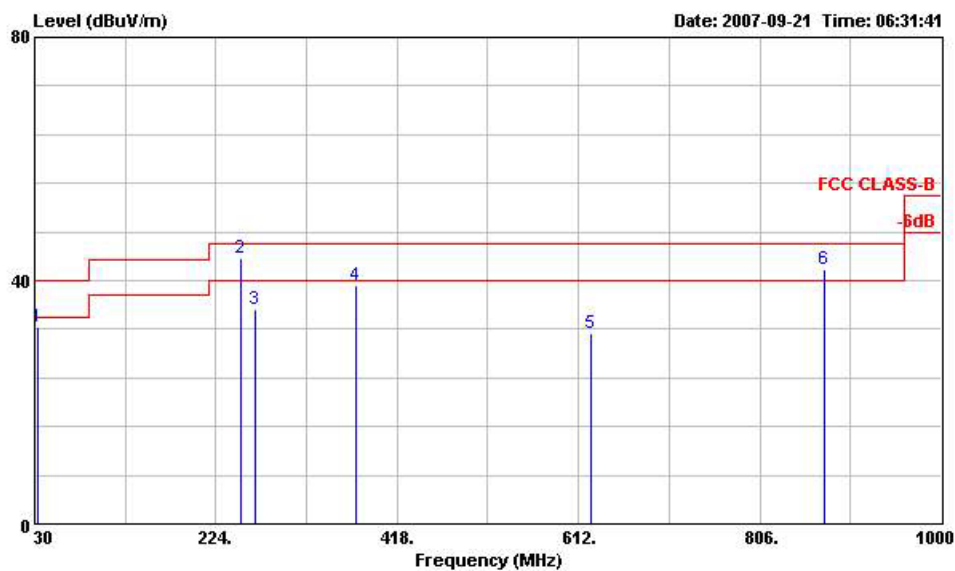
※ Remark: #3 and #4 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

➤ Test Mode : Mode 3

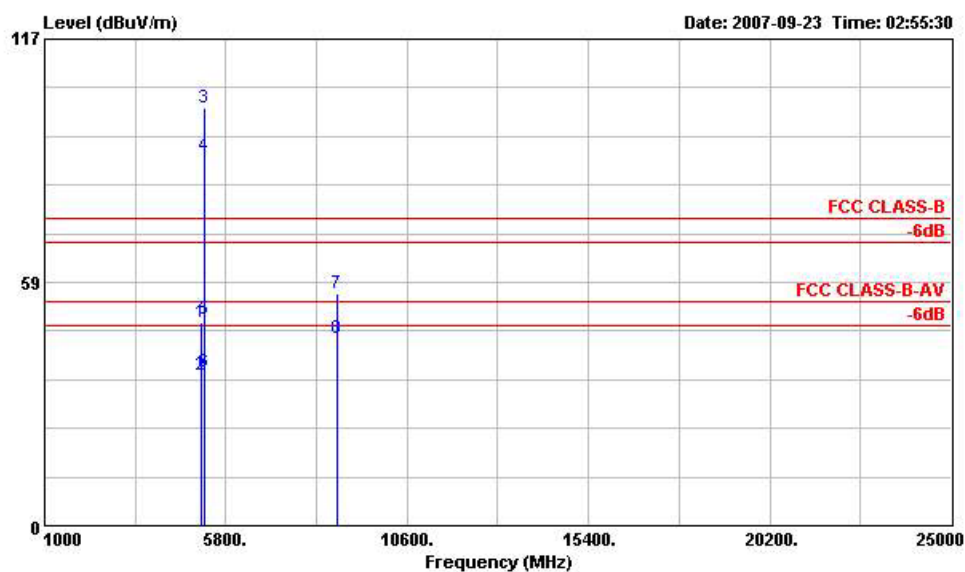
- Temperature : 26~27°C
- Relative Humidity : 49~50%
- Test Engineer : Derek
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11a Tx_Ch44;5220MHz
 Data Rate: 24

	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable	Preamp	Ant	Table		
	MHz	dBuV/m	dB	dBuV/m	Level Factor	Loss	Factor	Pos	Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	32.700	32.32	-7.68	40.00	41.76	16.33	0.90	26.66	---	---	Peak
2 !	250.050	43.75	-2.25	46.00	55.04	12.57	2.05	25.91	100	231	QP
3	266.250	35.34	-10.66	46.00	46.60	12.48	2.11	25.85	---	---	Peak
4	374.200	39.21	-6.79	46.00	48.08	14.88	2.49	26.24	---	---	Peak
5	624.800	31.25	-14.75	46.00	35.06	19.96	3.26	27.04	---	---	Peak
6 !	875.400	41.84	-4.16	46.00	41.97	22.62	3.92	26.67	---	---	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11a Tx_Ch44;5220MHz
 Data Rate: 24

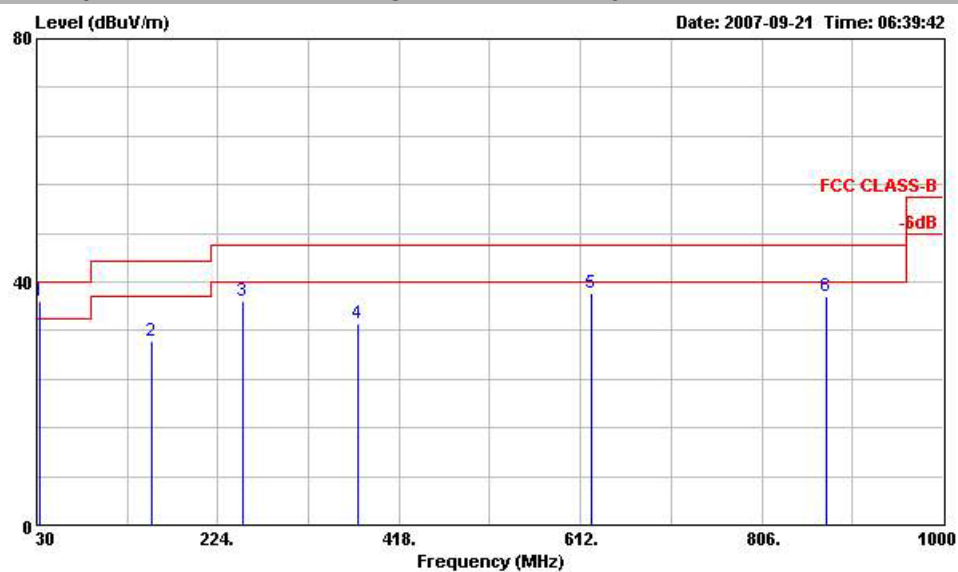
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5150.000	48.82	-25.18	74.00	43.68	33.38	6.00	34.24	100	0 Peak
2	5150.000	36.25	-17.75	54.00	31.11	33.38	6.00	34.24	100	326 Average
3 X	5220.000	100.26			95.02	33.46	6.00	34.22	100	0 Peak
4 X	5220.000	88.83			83.59	33.46	6.00	34.22	100	326 Average
5	5250.000	49.81	-24.19	74.00	44.50	33.50	6.00	34.19	100	0 Peak
6	5250.000	37.11	-16.89	54.00	31.80	33.50	6.00	34.19	100	326 Average
7	8756.000	55.66	-18.34	74.00	45.31	37.80	7.15	34.60	100	0 Peak
8	8756.000	45.21	-8.79	54.00	34.86	37.80	7.15	34.60	100	154 Average

※Remark: #3 and #4 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

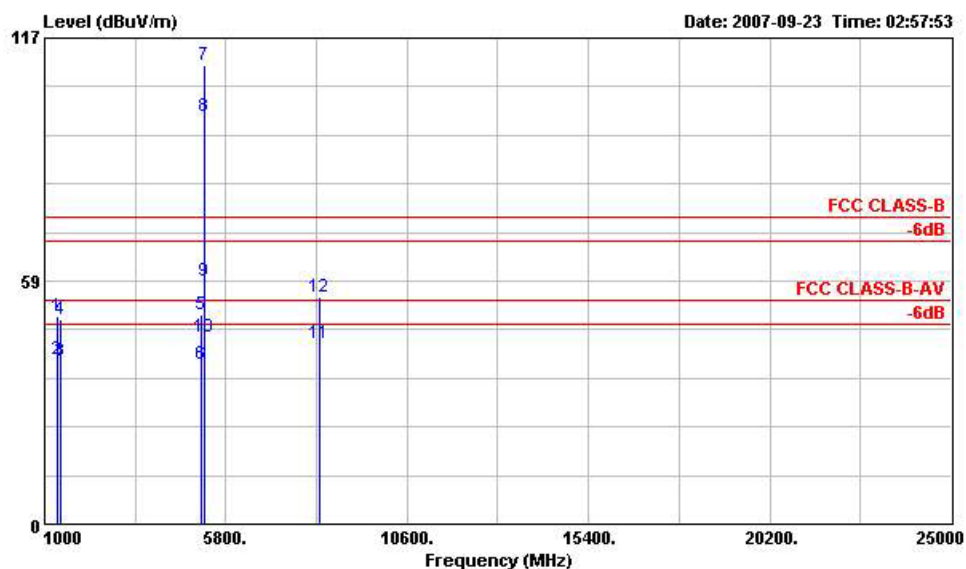
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11a Tx_Ch44;5220MHz
 Data Rate: 24

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 !	32.700	36.77	-3.23	40.00	46.21	16.33	0.90	26.66	100	78 QP
2	152.580	30.38	-13.12	43.50	44.52	10.46	1.66	26.26	---	--- Peak
3	250.050	36.74	-9.26	46.00	48.03	12.57	2.05	25.91	---	--- Peak
4	374.200	33.13	-12.87	46.00	42.00	14.88	2.49	26.24	---	--- Peak
5	624.100	38.06	-7.94	46.00	41.88	19.96	3.26	27.04	---	--- Peak
6	875.400	37.55	-8.45	46.00	37.68	22.62	3.92	26.67	---	--- Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11a Tx_Ch44;5220MHz
 Data Rate: 24

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	dB	dBuV/m	Level	Factor	Loss	Factor	Pos	Pos
					dBuV	dB/m	dB	dB	cm	deg
1	1326.000	49.90	-24.10	74.00	56.39	24.85	2.60	33.95	100	0 Peak
2	1326.000	39.48	-14.52	54.00	45.97	24.85	2.60	33.95	100	334 Average
3	1412.000	39.14	-14.86	54.00	45.22	25.08	2.68	33.84	100	221 Average
4	1412.000	49.26	-24.74	74.00	55.34	25.08	2.68	33.84	100	0 Peak
5	5150.000	50.35	-23.65	74.00	45.21	33.38	6.00	34.24	100	0 Peak
6	5150.000	38.64	-15.36	54.00	33.50	33.38	6.00	34.24	100	207 Average
7 X	5220.000	110.36			105.11	33.46	6.00	34.21	100	0 Peak
8 @	5220.000	97.98			92.74	33.46	6.00	34.22	100	207 Average
9	5250.000	58.42	-15.58	74.00	53.11	33.50	6.00	34.19	100	0 Peak
10	5250.000	44.93	-9.07	54.00	39.62	33.50	6.00	34.19	100	207 Average
11	8270.000	43.41	-10.59	54.00	33.35	37.19	6.90	34.02	100	233 Average
12	8270.000	54.75	-19.25	74.00	44.69	37.19	6.90	34.02	100	0 Peak

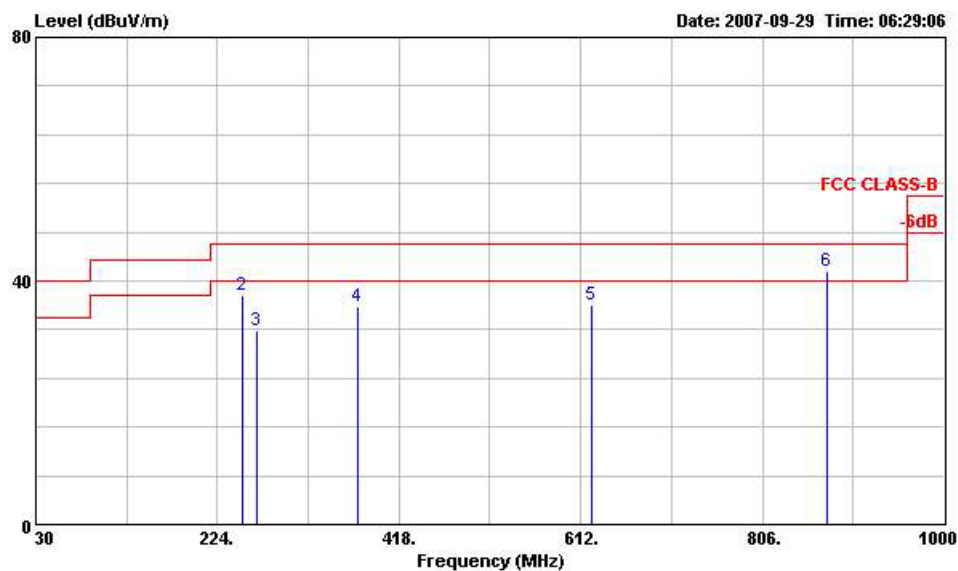
※ Remark: #7 and #8 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

➤ Test Mode : Mode 4

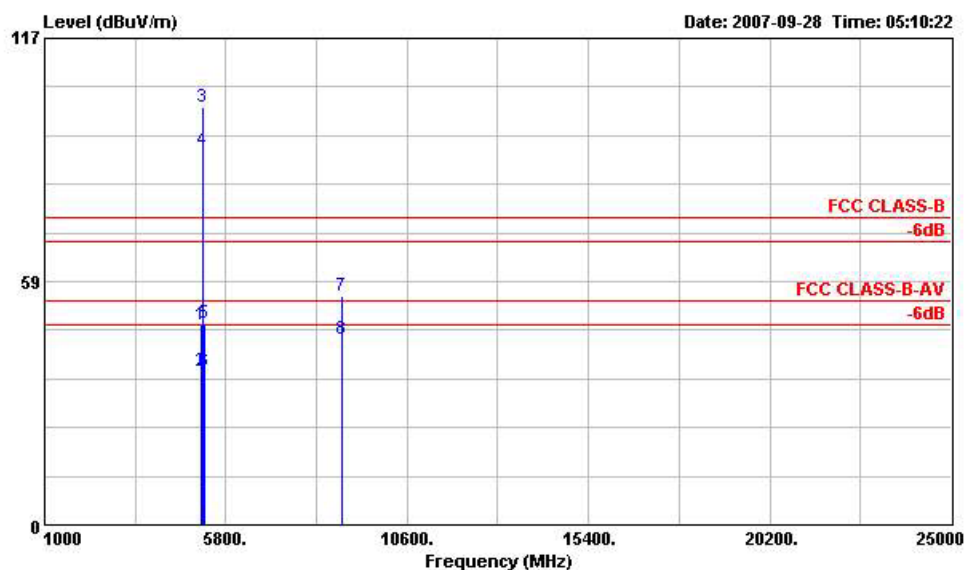
- Temperature : 26~27°C
- Relative Humidity : 49~50%
- Test Engineer : Derek
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/ 60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx (20M)_Ch36;5180MHz
 Data Rate: 6.5

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.810	27.57	-12.43	40.00	37.00	16.36	0.88	26.67	---	---	Peak
2	250.050	37.65	-8.35	46.00	48.94	12.57	2.05	25.91	---	---	Peak
3	266.250	31.90	-14.10	46.00	43.16	12.48	2.11	25.85	---	---	Peak
4	374.200	35.66	-10.34	46.00	44.53	14.88	2.49	26.24	---	---	Peak
5	624.100	36.09	-9.91	46.00	39.91	19.96	3.26	27.04	---	---	Peak
6	875.400	41.55	-4.45	46.00	41.68	22.62	3.92	26.67	100	258	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 NOME : 11n(a) Tx(20M)_Ch36;5180MHz
 Data Rate: 6.5

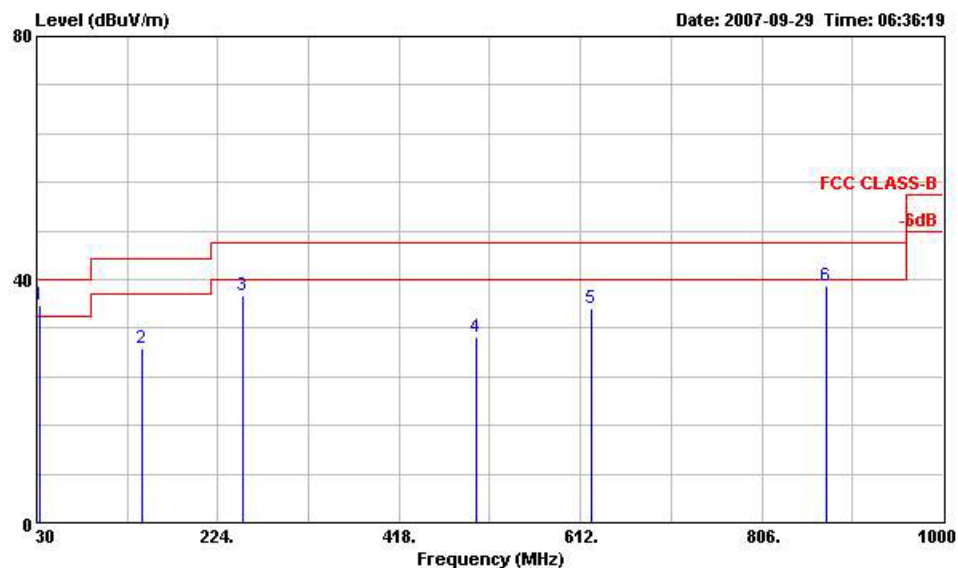
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5150.000	48.11	-25.89	74.00	42.97	33.38	6.00	34.24	100	0 Peak
2	5150.000	37.02	-16.98	54.00	31.88	33.38	6.00	34.24	100	61 Average
3 X	5180.000	100.33			95.14	33.42	6.00	34.23	100	0 Peak
4 X	5180.000	90.04			84.85	33.42	6.00	34.23	100	61 Average
5	5250.000	48.60	-25.40	74.00	43.29	33.50	6.00	34.19	100	0 Peak
6	5250.000	36.90	-17.10	54.00	31.59	33.50	6.00	34.19	100	61 Average
7	8892.000	55.18	-18.82	74.00	44.70	37.96	7.22	34.70	100	0 Peak
8	8892.000	44.78	-9.22	54.00	34.30	37.96	7.22	34.70	100	344 Average

※Remark: #3 and #4 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

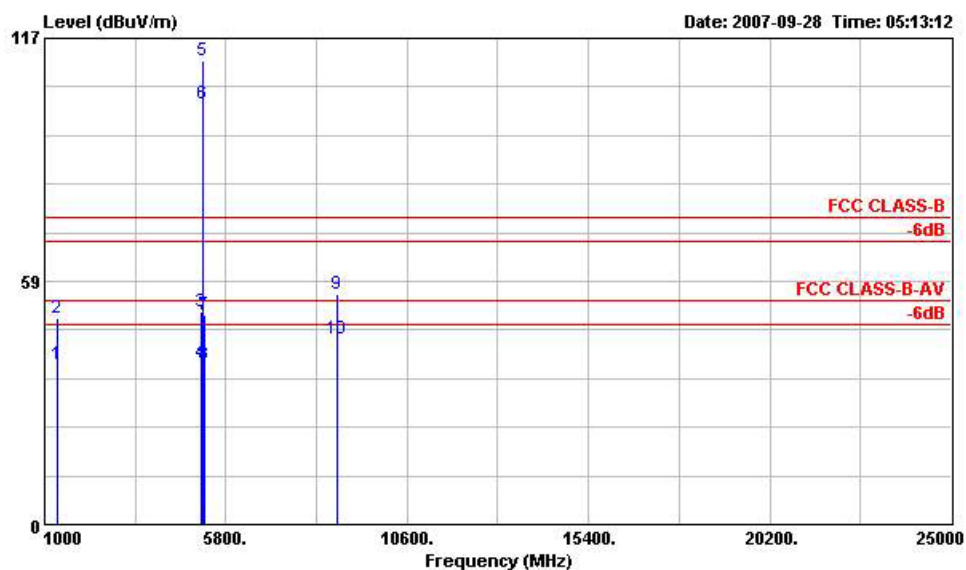
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(20M)_Ch36;5180MHz
 Data Rate: 6.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	32.970	35.77	-4.23	40.00	45.21	16.33	0.90	26.66	100	95
2	143.130	28.71	-14.79	43.50	42.72	10.65	1.64	26.30	---	---
3	250.050	37.28	-8.72	46.00	48.57	12.57	2.05	25.91	---	---
4	500.200	30.60	-15.40	46.00	37.96	16.91	2.81	27.08	---	---
5	624.100	35.30	-10.70	46.00	39.12	19.96	3.26	27.04	---	---
6	875.400	39.05	-6.95	46.00	39.18	22.62	3.92	26.67	---	---



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 NOME : 11n(a) Tx(20M)_Ch36;5180MHz
 Data Rate: 6.5

	Freq	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	1332.000	38.54	-15.46	54.00	44.99	24.90	2.60	33.95	100	245	Average
2	1332.000	49.70	-24.30	74.00	56.15	24.90	2.60	33.95	100	0	Peak
3	5150.000	51.32	-22.68	74.00	46.18	33.38	6.00	34.24	100	0	Peak
4	5150.000	38.74	-15.26	54.00	33.60	33.38	6.00	34.24	100	4	Average
5 X	5180.000	111.73			106.54	33.42	6.00	34.23	100	0	Peak
6 0	5180.000	101.03			95.84	33.42	6.00	34.23	100	4	Average
7	5250.000	50.53	-23.47	74.00	45.22	33.50	6.00	34.19	100	0	Peak
8	5250.000	38.61	-15.39	54.00	33.30	33.50	6.00	34.19	100	4	Average
9	8734.000	55.32	-18.68	74.00	44.99	37.78	7.13	34.58	100	0	Peak
10	8734.000	44.68	-9.32	54.00	34.35	37.78	7.13	34.58	100	245	Average

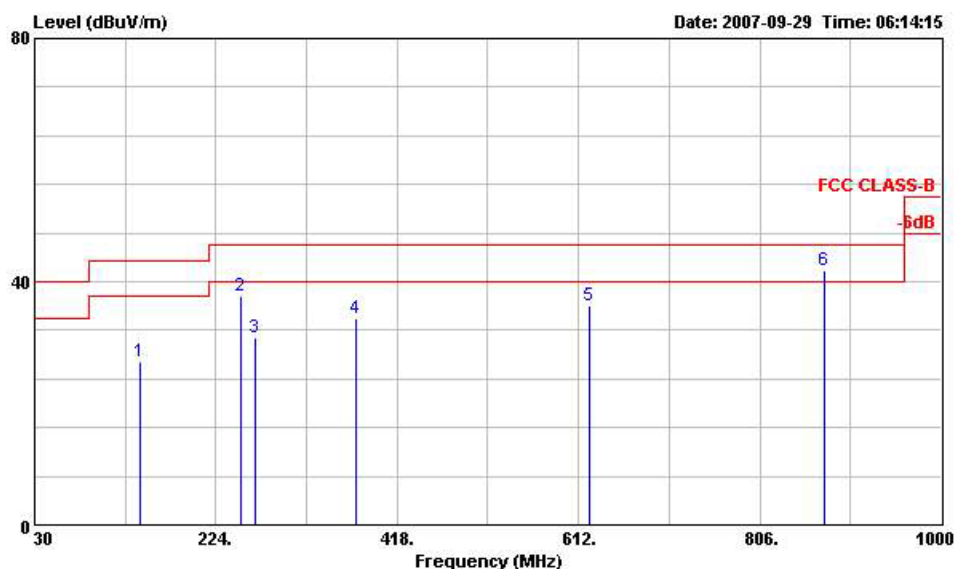
※Remark: #5 and #6 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

➤ Test Mode : Mode 5

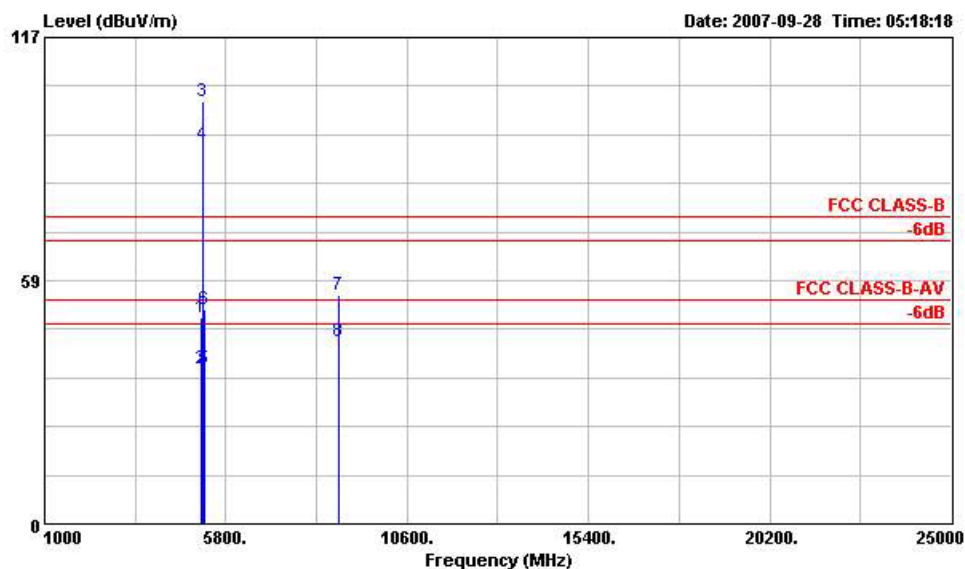
- Temperature : 26~27°C
- Relative Humidity : 49~50%
- Test Engineer : Derek
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(20M)_Ch40;5200MHz
 Data Rate: 6.5

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	143.130	26.91	-16.59	43.50	40.92	10.65	1.64	26.30	---	---	Peak
2	250.050	37.55	-8.45	46.00	48.84	12.57	2.05	25.91	---	---	Peak
3	266.250	30.82	-15.18	46.00	42.08	12.48	2.11	25.85	---	---	Peak
4	374.200	34.03	-11.97	46.00	42.90	14.88	2.49	26.24	---	---	Peak
5	624.100	36.09	-9.91	46.00	39.91	19.96	3.26	27.04	---	---	Peak
6	875.400	41.90	-4.10	46.00	42.03	22.62	3.92	26.67	100	14	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(20M)_Ch40;5200MHz
 Data Rate: 6.5

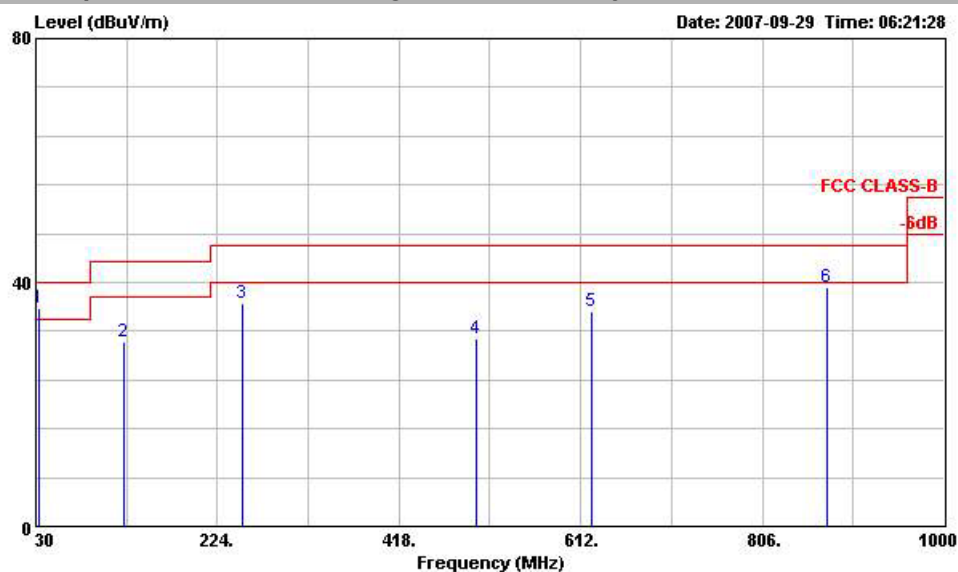
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5150.000	49.62	-24.38	74.00	44.48	33.38	6.00	34.24	100	0 Peak
2	5150.000	37.38	-16.62	54.00	32.24	33.38	6.00	34.24	100	323 Average
3 X	5200.000	101.61			96.42	33.42	6.00	34.23	100	0 Peak
4 X	5200.000	91.25			86.03	33.44	6.00	34.22	100	323 Average
5	5250.000	37.43	-16.57	54.00	32.12	33.50	6.00	34.19	100	323 Average
6	5250.000	51.47	-22.53	74.00	46.16	33.50	6.00	34.19	100	0 Peak
7	8780.000	55.17	-18.83	74.00	44.79	37.84	7.16	34.62	100	0 Peak
8	8780.000	43.98	-10.02	54.00	33.60	37.84	7.16	34.62	100	165 Average

※Remark: #3 and #4 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

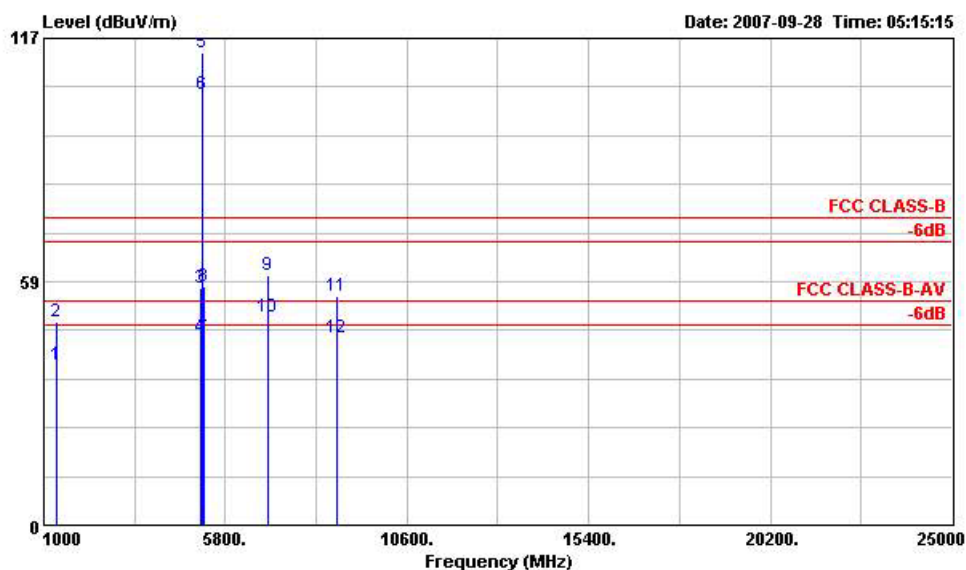
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(20M)_Ch40;S200MHz
 Data Rate: 6.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 !	32.970	35.81	-4.19	40.00	45.25	16.33	0.90	26.66	100	127 Peak
2	124.770	30.26	-13.24	43.50	43.22	11.90	1.51	26.37	---	---
3	250.050	36.62	-9.38	46.00	47.91	12.57	2.05	25.91	---	---
4	500.200	30.87	-15.13	46.00	38.23	16.91	2.81	27.08	---	---
5	624.100	35.18	-10.82	46.00	39.00	19.96	3.26	27.04	---	---
6	875.400	39.28	-6.72	46.00	39.41	22.62	3.92	26.67	---	---



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(20M)_Ch40;5200MHz
 Data Rate: 6.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1332.000	38.54	-15.46	54.00	44.99	24.90	2.60	33.95	100	233 Average
2	1332.000	48.98	-25.02	74.00	55.43	24.90	2.60	33.95	100	0 Peak
3	5150.000	57.01	-16.99	74.00	51.87	33.38	6.00	34.24	100	0 Peak
4	5150.000	45.13	-8.87	54.00	39.99	33.38	6.00	34.24	100	23 Average
5 X	5200.000	113.67			108.45	33.44	6.00	34.22	100	0 Peak
6 0	5200.000	103.46			98.24	33.44	6.00	34.22	100	23 Average
7	5250.000	45.04	-8.96	54.00	39.73	33.50	6.00	34.19	100	23 Average
8	5250.000	57.28	-16.72	74.00	51.97	33.50	6.00	34.19	100	0 Peak
9	6934.000	60.13	-13.87	74.00	51.27	35.06	6.34	32.54	100	0 Peak
10 !	6934.000	50.13	-3.87	54.00	41.27	35.06	6.34	32.54	100	23 Average
11	8726.000	55.10	-18.90	74.00	44.79	37.76	7.13	34.58	100	0 Peak
12	8726.000	45.01	-8.99	54.00	34.70	37.76	7.13	34.58	100	127 Average

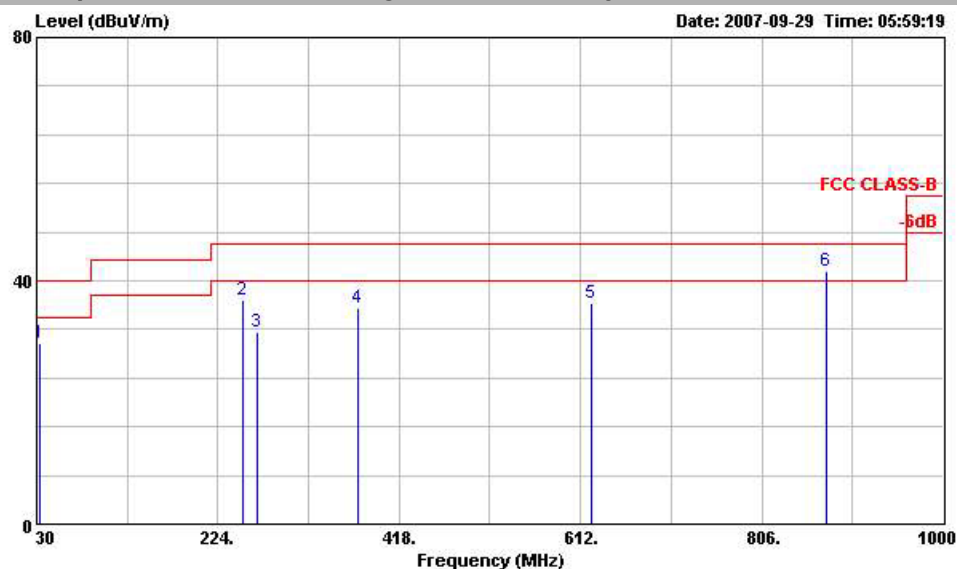
※Remark: #5 and #6 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

➤ Test Mode : Mode 6

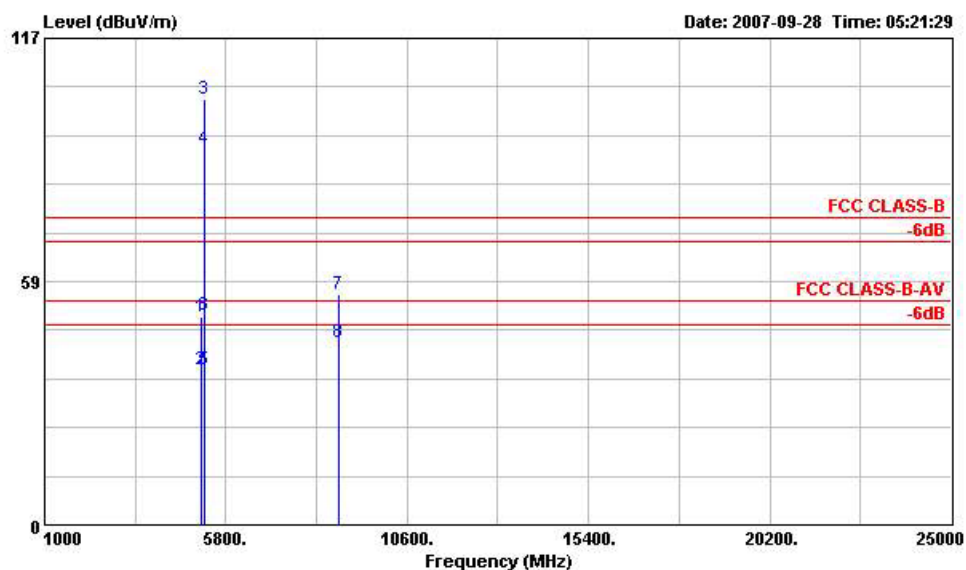
- Temperature : 26~27°C
- Relative Humidity : 49~50%
- Test Engineer : Derek
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(20M)_Ch44;5220MHz
 Data Rate: 6.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	33.780	29.68	-10.32	40.00	39.12	16.31	0.91	26.66	---	--- Peak
2	250.050	36.92	-9.08	46.00	48.21	12.57	2.05	25.91	---	--- Peak
3	266.250	31.63	-14.37	46.00	42.89	12.48	2.11	25.85	---	--- Peak
4	374.200	35.47	-10.53	46.00	44.34	14.88	2.49	26.24	---	--- Peak
5	624.100	36.25	-9.75	46.00	40.07	19.96	3.26	27.04	---	--- Peak
6 !	875.400	41.63	-4.37	46.00	41.76	22.62	3.92	26.67	100	241 Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 NOME : 11n(a) Tx(20M)_Ch44;5220MHz
 Data Rate: 6.5

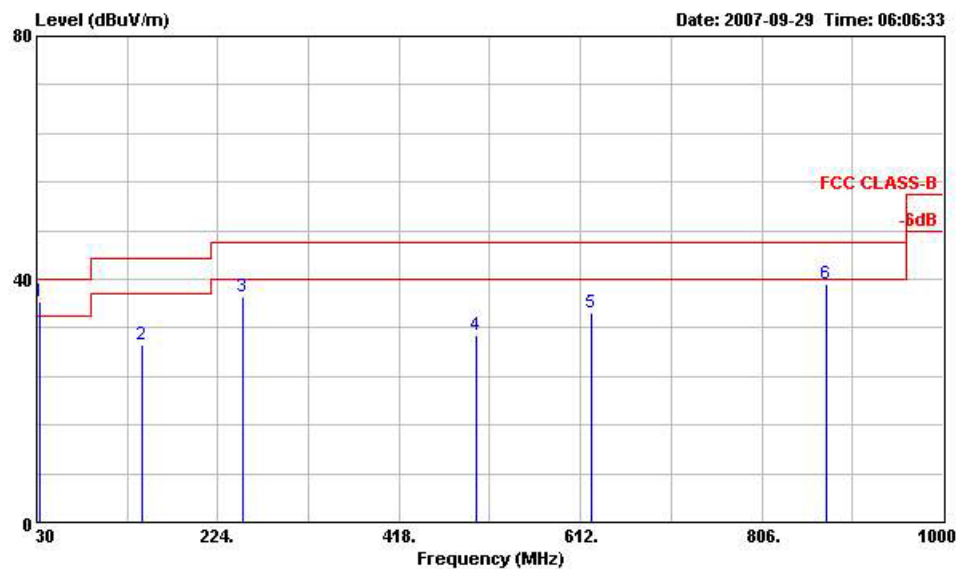
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5150.000	50.05	-23.95	74.00	44.91	33.38	6.00	34.24	100	0 Peak
2	5150.000	37.28	-16.72	54.00	32.14	33.38	6.00	34.24	100	49 Average
3 X	5220.000	102.37			97.13	33.46	6.00	34.22	100	0 Peak
4 X	5220.000	90.27			85.03	33.46	6.00	34.22	100	49 Average
5	5250.000	37.26	-16.74	54.00	31.95	33.50	6.00	34.19	100	49 Average
6	5250.000	50.36	-23.64	74.00	45.05	33.50	6.00	34.19	100	0 Peak
7	8782.000	55.26	-18.74	74.00	44.88	37.84	7.16	34.62	100	0 Peak
8	8782.000	43.97	-10.03	54.00	33.59	37.84	7.16	34.62	100	178 Average

※Remark: #3 and #4 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

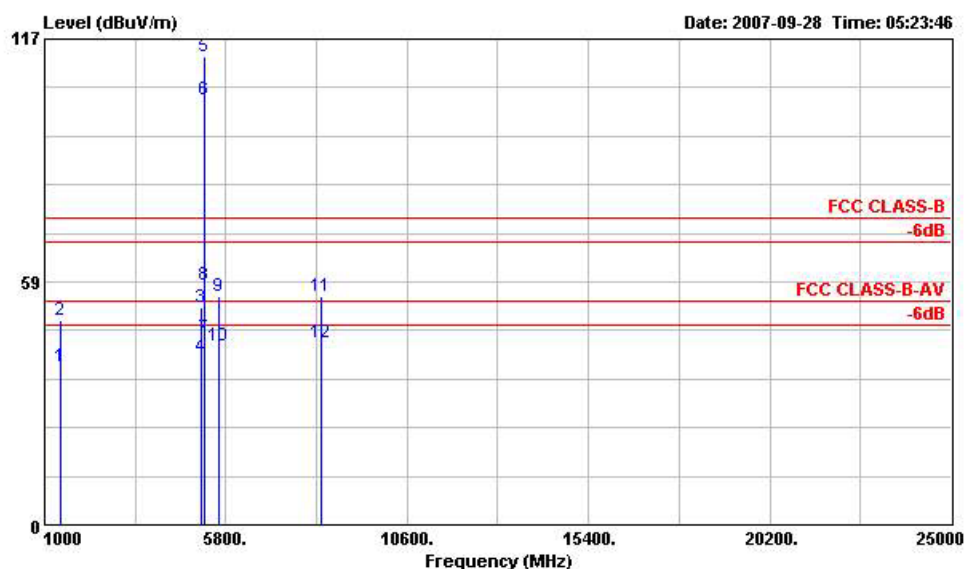
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(20M)_Ch44;5220MHz
 Data Rate: 6.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level Factor	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 !	32.970	36.21	-3.79	40.00	45.65	16.33	0.90	26.66	100	73 Peak
2	142.860	29.34	-14.16	43.50	43.38	10.63	1.64	26.30	---	---
3	250.050	37.13	-8.87	46.00	48.42	12.57	2.05	25.91	---	---
4	500.200	30.92	-15.08	46.00	38.28	16.91	2.81	27.08	---	---
5	624.100	34.50	-11.50	46.00	38.32	19.96	3.26	27.04	---	---
6	875.400	39.13	-6.87	46.00	39.26	22.62	3.92	26.67	---	---



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(20M)_Ch44;5220MHz
 Data Rate: 6.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1430.000	38.03	-15.97	54.00	44.01	25.12	2.71	33.81	100	321 Average
2	1430.000	49.11	-24.89	74.00	55.09	25.12	2.71	33.81	100	0 Peak
3	5150.000	52.45	-21.55	74.00	47.31	33.38	6.00	34.24	100	0 Peak
4	5150.000	40.40	-13.60	54.00	35.26	33.38	6.00	34.24	100	356 Average
5 X	5220.000	112.95			107.71	33.46	6.00	34.22	100	0 Peak
6 @	5220.000	102.34			97.10	33.46	6.00	34.22	100	356 Average
7	5250.000	44.91	-9.09	54.00	39.60	33.50	6.00	34.19	100	356 Average
8	5250.000	57.92	-16.08	74.00	52.61	33.50	6.00	34.19	100	0 Peak
9	5606.000	55.19	-18.81	74.00	49.39	33.86	6.01	34.08	100	0 Peak
10	5606.000	42.97	-11.03	54.00	37.17	33.86	6.01	34.08	100	356 Average
11	8308.000	55.21	-18.79	74.00	45.17	37.23	6.91	34.11	100	0 Peak
12	8308.000	44.00	-10.00	54.00	33.96	37.23	6.91	34.11	100	177 Average

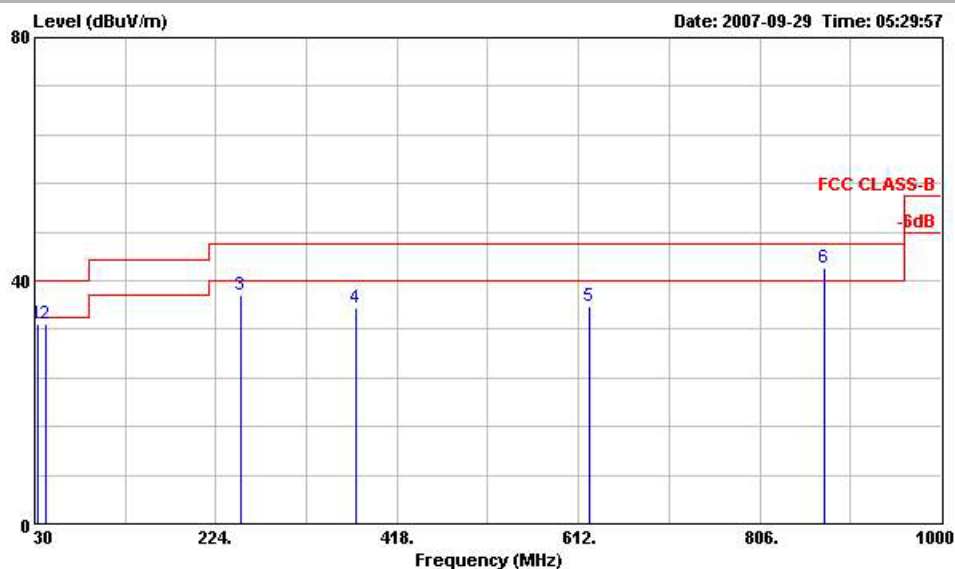
※Remark: #5 and #6 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

➤ Test Mode : Mode 7

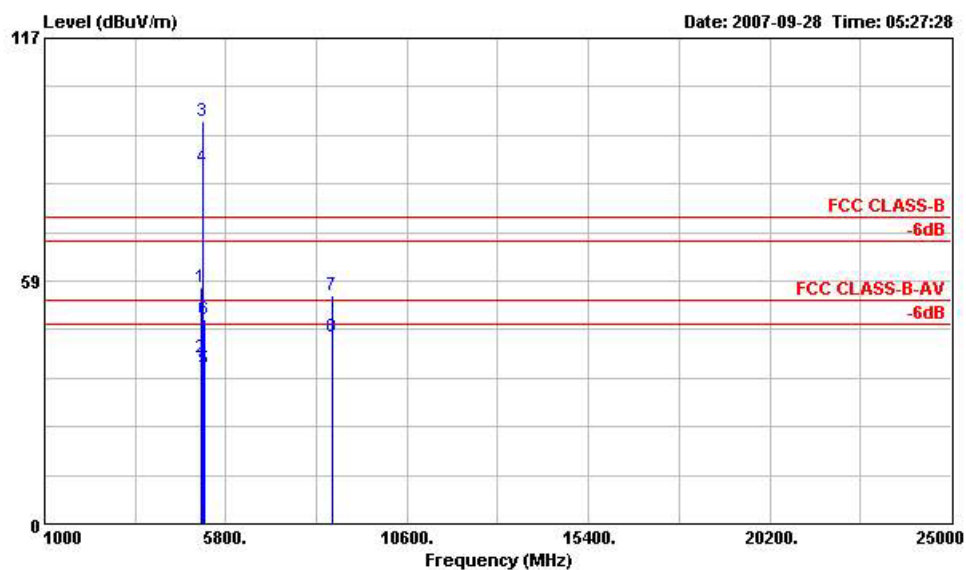
- Temperature : 26~27°C
- Relative Humidity : 49~50%
- Test Engineer : Derek
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch38;5190MHz
 Data Rate: 13.5

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Preamp Loss Factor	Ant Pos	Table Pos	Remark		
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	33.780	32.83	-7.17	40.00	42.27	16.31	0.91	26.66	---	---	Peak
2	41.610	32.89	-7.11	40.00	47.44	11.11	0.97	26.63	---	---	Peak
3	250.050	37.71	-8.29	46.00	49.00	12.57	2.05	25.91	---	---	Peak
4	374.200	35.46	-10.54	46.00	44.33	14.88	2.49	26.24	---	---	Peak
5	624.100	35.73	-10.27	46.00	39.55	19.96	3.26	27.04	---	---	Peak
6 !	875.400	42.06	-3.94	46.00	42.19	22.62	3.92	26.67	100	90	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch38;5190MHz
 Data Rate: 13.5

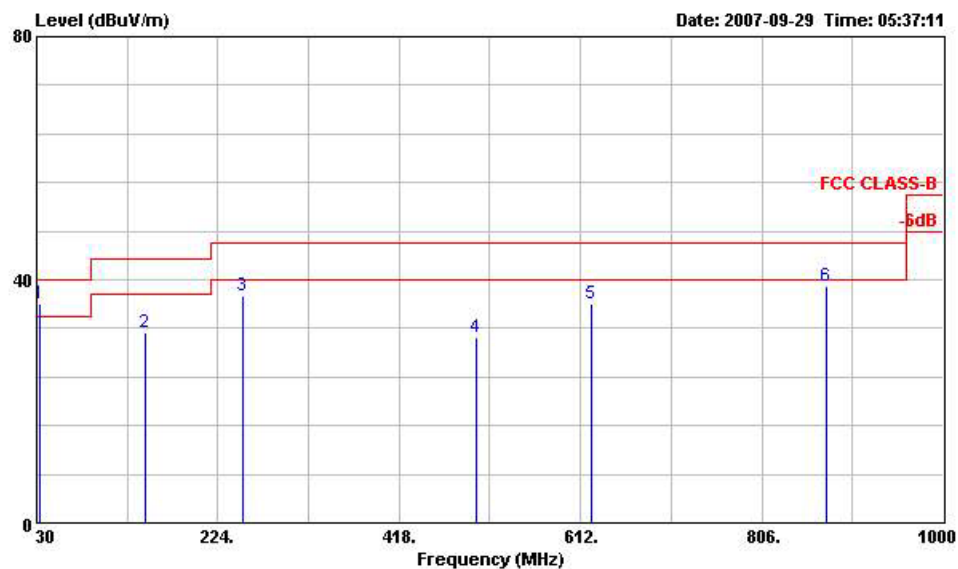
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5150.000	56.89	-17.11	74.00	51.75	33.38	6.00	34.24	100	0 Peak
2	5150.000	39.87	-14.13	54.00	34.73	33.38	6.00	34.24	100	54 Average
3 X	5190.000	97.02			91.83	33.42	6.00	34.23	100	0 Peak
4 X	5190.000	85.86			80.67	33.42	6.00	34.23	100	54 Average
5	5250.000	37.31	-16.69	54.00	32.00	33.50	6.00	34.19	100	54 Average
6	5250.000	49.37	-24.63	74.00	44.06	33.50	6.00	34.19	100	0 Peak
7	8598.000	55.19	-18.81	74.00	44.98	37.62	7.07	34.48	100	0 Peak
8	8598.000	44.84	-9.16	54.00	34.63	37.62	7.07	34.48	100	53 Average

※Remark: #3 and #4 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

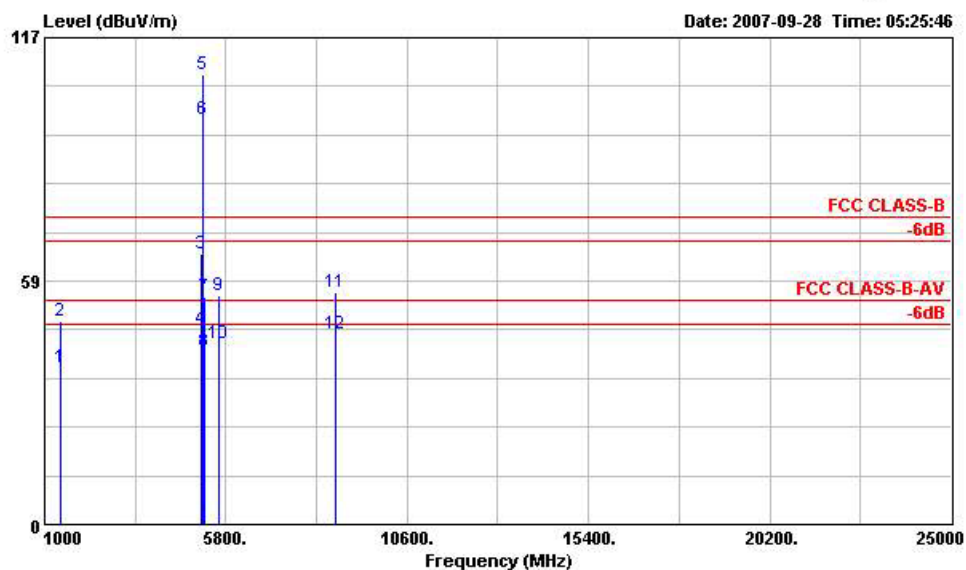
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch38;5190MHz
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 !	32.970	35.94	-4.06	40.00	45.38	16.33	0.90	26.66	100	146
2	146.100	31.32	-12.18	43.50	45.26	10.70	1.65	26.29	---	---
3	250.050	37.32	-8.68	46.00	48.61	12.57	2.05	25.91	---	---
4	500.200	30.55	-15.45	46.00	37.91	16.91	2.81	27.08	---	---
5	624.100	36.12	-9.88	46.00	39.94	19.96	3.26	27.04	---	---
6	875.400	39.03	-6.97	46.00	39.16	22.62	3.92	26.67	---	---



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch38;5190MHz
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
			dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1428.000	37.89	-16.11	54.00	43.87	25.12	2.71	33.81	100	316 Average
2	1428.000	48.82	-25.18	74.00	54.80	25.12	2.71	33.81	100	0 Peak
3	5150.000	65.02	-8.98	74.00	59.88	33.38	6.00	34.24	100	0 Peak
4	5150.000	46.81	-7.19	54.00	41.67	33.38	6.00	34.24	100	350 Average
5 X	5190.000	108.33			103.14	33.42	6.00	34.23	100	0 Peak
6 @	5190.000	97.21			92.02	33.42	6.00	34.23	100	350 Average
7	5250.000	54.65	-19.35	74.00	49.34	33.50	6.00	34.19	100	0 Peak
8	5250.000	41.49	-12.51	54.00	36.18	33.50	6.00	34.19	100	350 Average
9	5612.000	54.95	-19.05	74.00	49.15	33.86	6.01	34.08	100	0 Peak
10	5612.000	43.56	-10.44	54.00	37.76	33.86	6.01	34.08	100	245 Average
11	8694.000	55.97	-18.03	74.00	45.67	37.74	7.12	34.56	100	0 Peak
12	8694.000	45.61	-8.39	54.00	35.31	37.74	7.12	34.56	100	195 Average

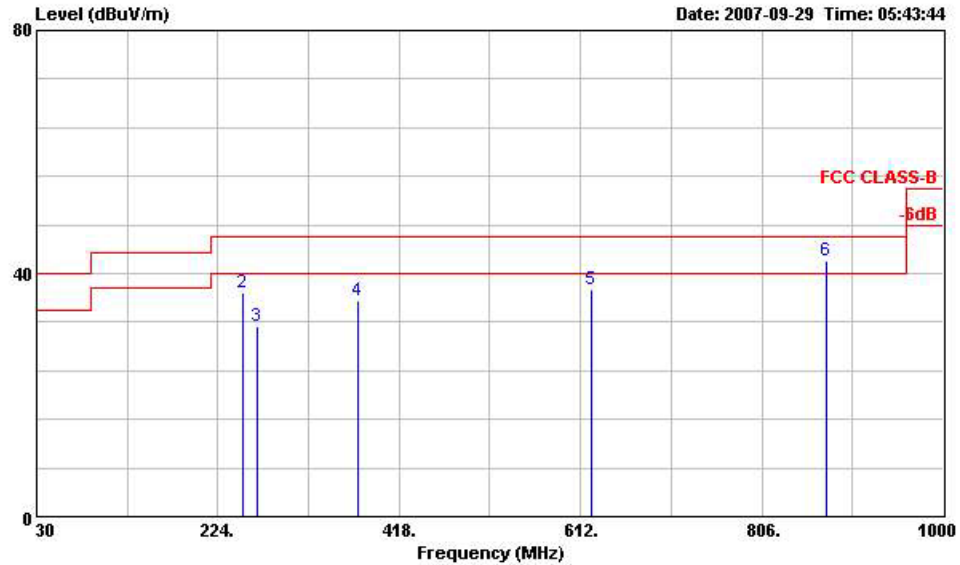
※Remark: #5 and #6 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

➤ Test Mode : Mode 8

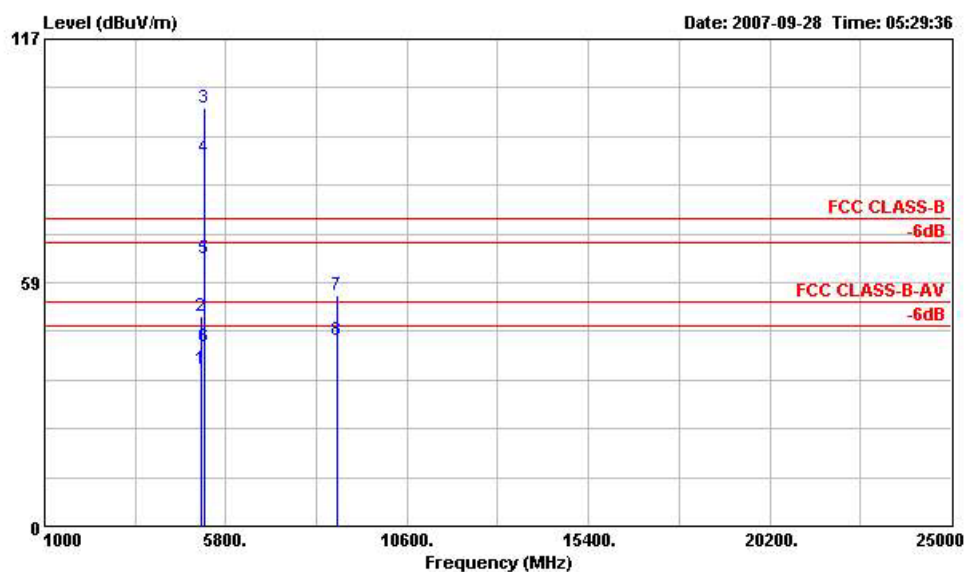
- Temperature : 26~27°C
- Relative Humidity :49~50%
- Test Engineer : Derek
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch44;5220MHz
 Data Rate: 13.5

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.810	28.08	-11.92	40.00	37.51	16.36	0.88	26.67	---	---	Peak
2	250.050	36.86	-9.14	46.00	48.15	12.57	2.05	25.91	---	---	Peak
3	266.250	31.38	-14.62	46.00	42.64	12.48	2.11	25.85	---	---	Peak
4	374.200	35.52	-10.48	46.00	44.39	14.88	2.49	26.24	---	---	Peak
5	624.100	37.43	-8.57	46.00	41.25	19.96	3.26	27.04	---	---	Peak
6	875.400	42.11	-3.89	46.00	42.24	22.62	3.92	26.67	100	79	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch44;5220MHz
 Data Rate: 13.5

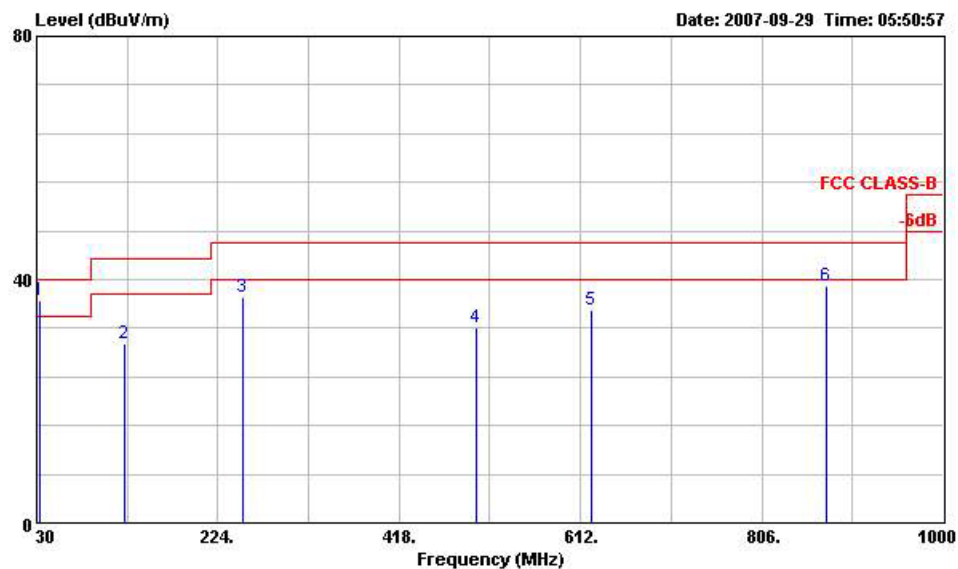
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5150.000	37.73	-16.27	54.00	32.59	33.38	6.00	34.24	100	326 Average
2	5150.000	50.36	-23.64	74.00	45.22	33.38	6.00	34.24	100	0 Peak
3 X	5220.000	100.54			95.30	33.46	6.00	34.22	100	0 Peak
4 X	5220.000	88.39			83.15	33.46	6.00	34.22	100	326 Average
5	5250.000	64.44	-9.56	74.00	59.13	33.50	6.00	34.19	100	0 Peak
6	5250.000	43.05	-10.95	54.00	37.74	33.50	6.00	34.19	100	326 Average
7	8764.000	55.35	-18.65	74.00	44.97	37.82	7.16	34.60	100	0 Peak
8	8764.000	44.65	-9.35	54.00	34.27	37.82	7.16	34.60	100	94 Average

※Remark: #3 and #4 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

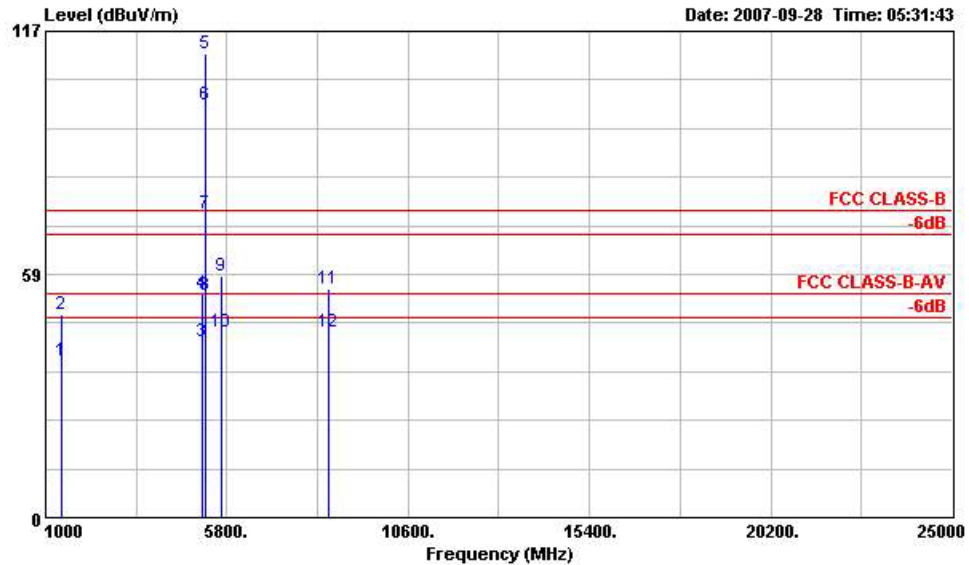
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch44;5220MHz
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 !	32.970	36.56	-3.44	40.00	46.00	16.33	0.90	26.66	100	214 Peak
2	124.770	29.42	-14.08	43.50	42.38	11.90	1.51	26.37	---	---
3	250.050	37.12	-8.88	46.00	48.41	12.57	2.05	25.91	---	---
4	500.200	32.14	-13.86	46.00	39.50	16.91	2.81	27.08	---	---
5	624.100	34.92	-11.08	46.00	38.74	19.96	3.26	27.04	---	---
6	875.400	38.99	-7.01	46.00	39.12	22.62	3.92	26.67	---	---



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 NOME : 11n(a) Tx(40M)_Ch44;5220MHz
 Data Rate: 13.5

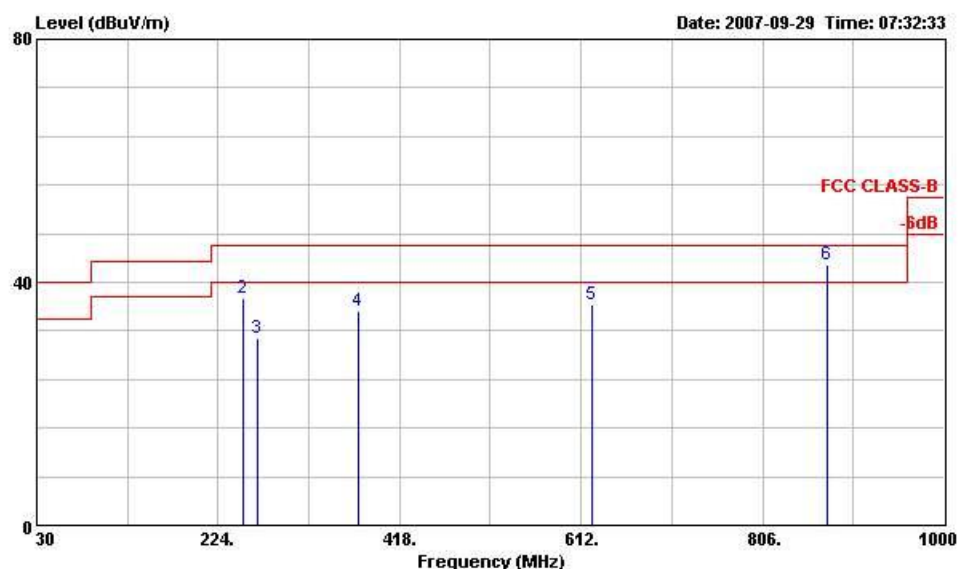
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1430.000	37.62	-16.38	54.00	43.60	25.12	2.71	33.81	100	345 Average
2	1430.000	48.70	-25.30	74.00	54.68	25.12	2.71	33.81	100	0 Peak
3	5150.000	42.38	-11.62	54.00	37.24	33.38	6.00	34.24	100	28 Average
4	5150.000	53.80	-20.20	74.00	48.66	33.38	6.00	34.24	100	0 Peak
5 X	5220.000	111.48			106.24	33.46	6.00	34.22	100	0 Peak
6 0	5220.000	99.22			93.98	33.46	6.00	34.22	100	28 Average
7 !	5250.000	73.26	-0.74	74.00	67.95	33.50	6.00	34.19	100	0 Peak
8 !	5250.000	53.61	-0.39	54.00	48.30	33.50	6.00	34.19	100	28 Average
9	5638.000	58.07	-15.93	74.00	52.24	33.88	6.02	34.07	100	0 Peak
10	5638.000	44.58	-9.42	54.00	38.75	33.88	6.02	34.07	100	28 Average
11	8500.000	55.12	-18.88	74.00	45.01	37.50	7.01	34.40	100	0 Peak
12	8500.000	44.83	-9.17	54.00	34.72	37.50	7.01	34.40	100	69 Average

※Remark: #5 and #6 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

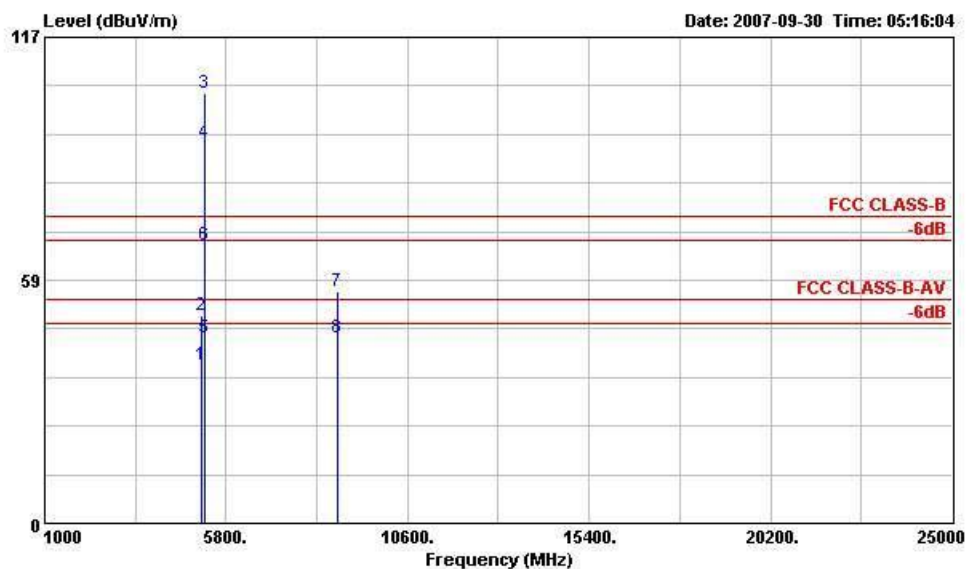
- Test Mode : Mode 9 (Module2)
- Temperature : 26~27°C
- Relative Humidity :49~50%
- Test Engineer : Derek
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch44;5220MHz
 Data Rate: 13.5

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	30.810	30.00	-10.00	40.00	39.43	16.36	0.88	26.67	---	---
2	250.050	37.27	-8.73	46.00	48.56	12.57	2.05	25.91	---	---
3	266.250	30.77	-15.23	46.00	42.03	12.48	2.11	25.85	---	---
4	374.200	35.22	-10.78	46.00	44.09	14.88	2.49	26.24	---	---
5	624.100	36.28	-9.72	46.00	40.10	19.96	3.26	27.04	---	---
6	875.400	42.97	-3.03	46.00	43.10	22.62	3.92	26.67	100	246



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch44;S220MHz
 Data Rate: 13.5

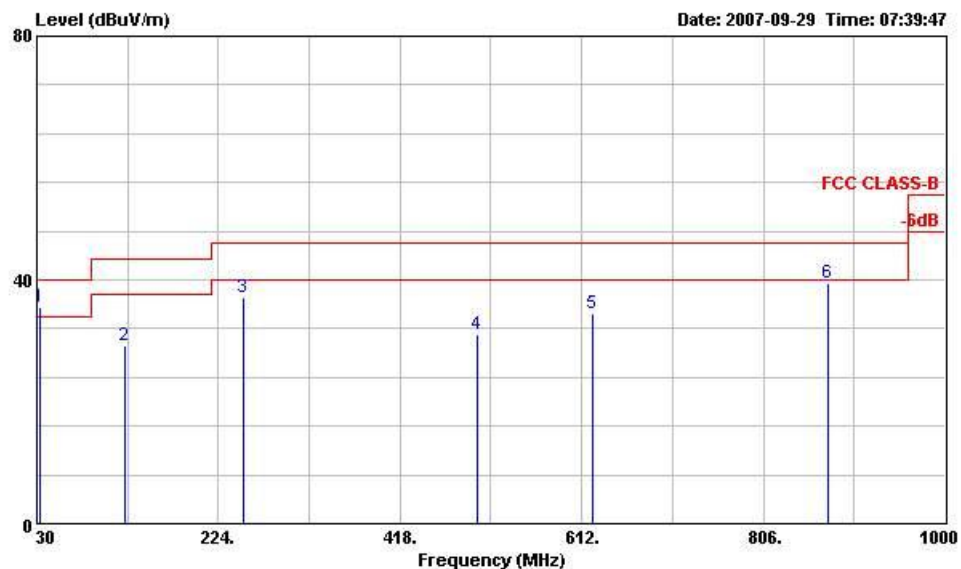
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5150.000	38.20	-15.80	54.00	33.06	33.38	6.00	34.24	100	317 Average
2	5150.000	50.15	-23.85	74.00	45.01	33.38	6.00	34.24	100	0 Peak
3 X	5220.000	103.44			98.20	33.46	6.00	34.22	100	0 Peak
4 X	5220.000	91.52			86.28	33.46	6.00	34.22	100	317 Average
5	5250.000	44.61	-9.39	54.00	39.30	33.50	6.00	34.19	100	317 Average
6	5250.000	67.06	-6.94	74.00	61.75	33.50	6.00	34.19	100	0 Peak
7	8742.000	55.82	-18.18	74.00	45.49	37.78	7.15	34.60	100	0 Peak
8	8742.000	44.57	-9.43	54.00	34.24	37.78	7.15	34.60	100	273 Average

※Remark: #3 and #4 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

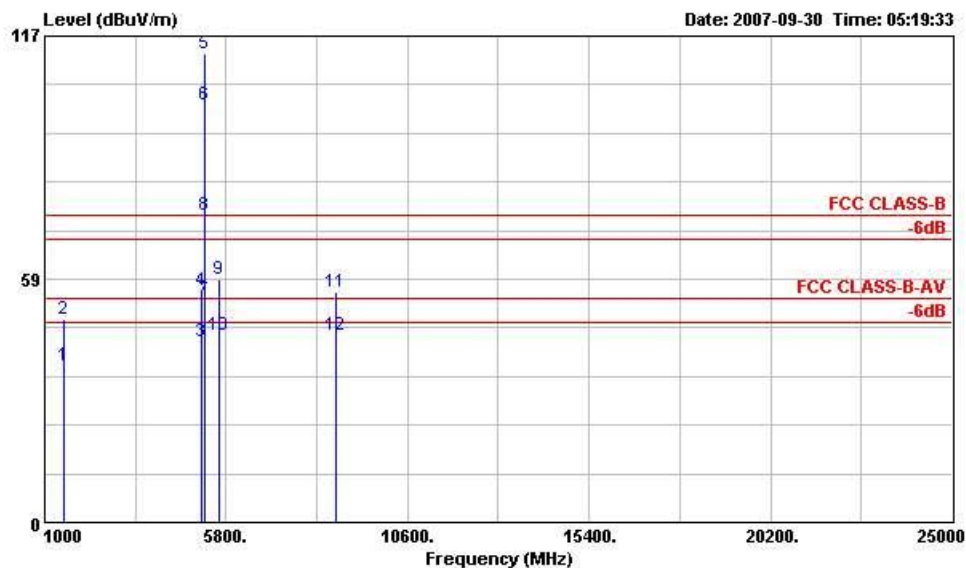
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch44;5220MHz
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 !	32.970	35.40	-4.60	40.00	44.84	16.33	0.90	26.66	100	169
2	124.770	29.24	-14.26	43.50	42.20	11.90	1.51	26.37	---	---
3	250.050	37.01	-8.99	46.00	48.30	12.57	2.05	25.91	---	---
4	500.200	31.16	-14.84	46.00	38.52	16.91	2.81	27.08	---	---
5	624.100	34.50	-11.50	46.00	38.32	19.96	3.26	27.04	---	---
6	875.400	39.60	-6.40	46.00	39.73	22.62	3.92	26.67	---	---



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 NOME : 11n(a) Tx(40M)_Ch44;5220MHz
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1500.000	37.64	-36.36	74.00	43.26	25.30	2.79	33.70	100	245 Average
2	1500.000	48.88	-25.12	74.00	54.50	25.30	2.79	33.70	100	0 Peak
3	5150.000	43.32	-10.68	54.00	38.18	33.38	6.00	34.24	100	20 Average
4	5150.000	55.63	-18.37	74.00	50.49	33.38	6.00	34.24	100	0 Peak
5 X	5220.000	112.85			107.61	33.46	6.00	34.22	100	0 Peak
6 0	5220.000	100.64			95.40	33.46	6.00	34.22	100	20 Average
7 !	5250.000	53.49	-0.51	54.00	48.18	33.50	6.00	34.19	100	20 Average
8 !	5250.000	73.72	-0.28	74.00	68.41	33.50	6.00	34.19	100	0 Peak
9	5598.000	58.43	-15.57	74.00	52.64	33.85	6.01	34.08	100	0 Peak
10	5598.000	44.95	-9.05	54.00	39.16	33.85	6.01	34.08	100	20 Average
11	8692.000	55.31	-18.69	74.00	45.04	37.72	7.11	34.56	100	0 Peak
12	8692.000	45.01	-8.99	54.00	34.74	37.72	7.11	34.56	100	143 Average

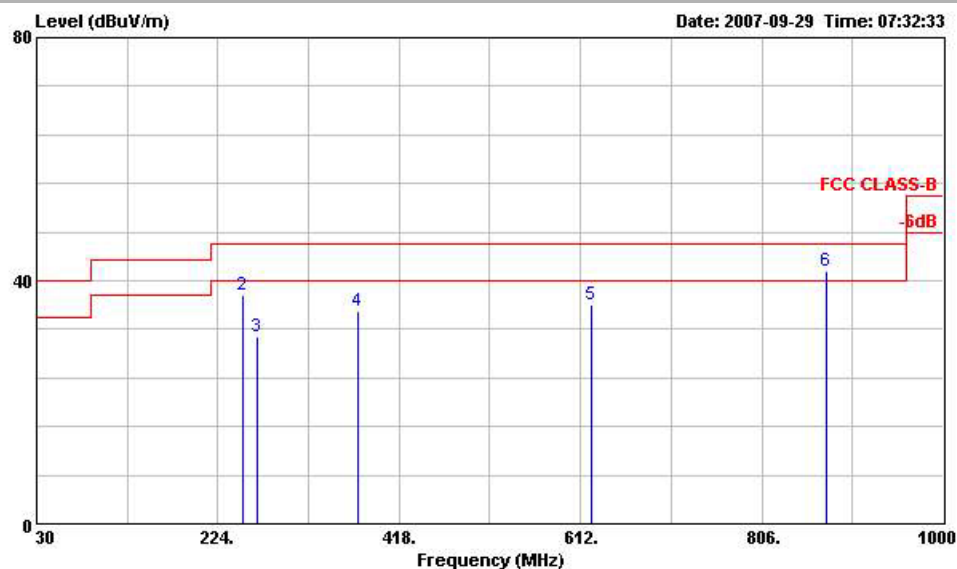
※Remark: #5 and #6 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

➤ Test Mode : Mode 10

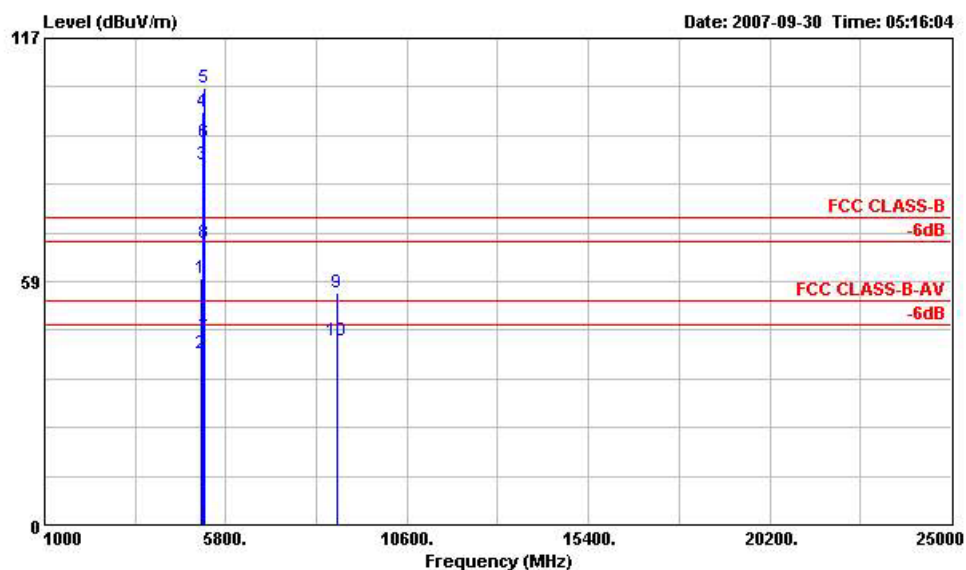
- Temperature : 26~27°C
- Relative Humidity : 49~50%
- Test Engineer : Derek
- Polarization : Horizontal

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch38+11n(a) Tx(40)M_Ch44
 Data Rate: 13.5

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.810	30.45	-9.55	40.00	39.88	16.36	0.88	26.67	---	---	Peak
2	250.050	37.59	-8.41	46.00	48.88	12.57	2.05	25.91	---	---	Peak
3	266.250	30.68	-15.32	46.00	41.94	12.48	2.11	25.85	---	---	Peak
4	374.200	34.97	-11.03	46.00	43.84	14.88	2.49	26.24	---	---	Peak
5	624.100	35.98	-10.02	46.00	39.80	19.96	3.26	27.04	---	---	Peak
6 !	875.400	41.65	-4.35	46.00	41.78	22.62	3.92	26.67	100	145	Peak



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 HORIZONTAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 NOME : 11n(a) Tx(40M)_Ch38+11n(a) Tx(40M)_Ch44
 Data Rate: 13.5

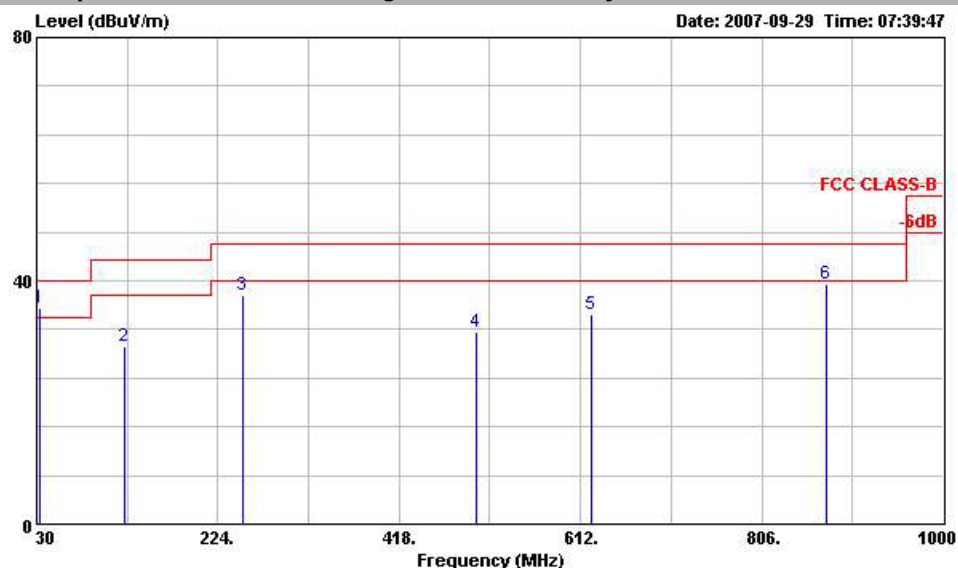
	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	5150.000	59.20	-14.80	74.00	54.06	33.38	6.00	34.24	100	0 Peak
2	5150.000	41.07	-12.93	54.00	35.93	33.38	6.00	34.24	100	54 Average
3 X	5190.000	86.49			81.30	33.42	6.00	34.23	100	54 Average
4 X	5190.000	99.11			93.92	33.42	6.00	34.23	100	0 Peak
5 X	5220.000	104.89			99.65	33.46	6.00	34.22	100	0 Peak
6 X	5220.000	91.93			86.69	33.46	6.00	34.22	100	317 Average
7	5250.000	45.03	-8.97	54.00	39.72	33.50	6.00	34.19	100	317 Average
8	5250.000	67.86	-6.14	74.00	62.55	33.50	6.00	34.19	100	0 Peak
9	8742.000	55.74	-18.26	74.00	45.41	37.78	7.15	34.60	100	0 Peak
10	8742.000	44.25	-9.75	54.00	33.92	37.78	7.15	34.60	100	335 Average

※Remark: #3, #4, #5 and #6 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.

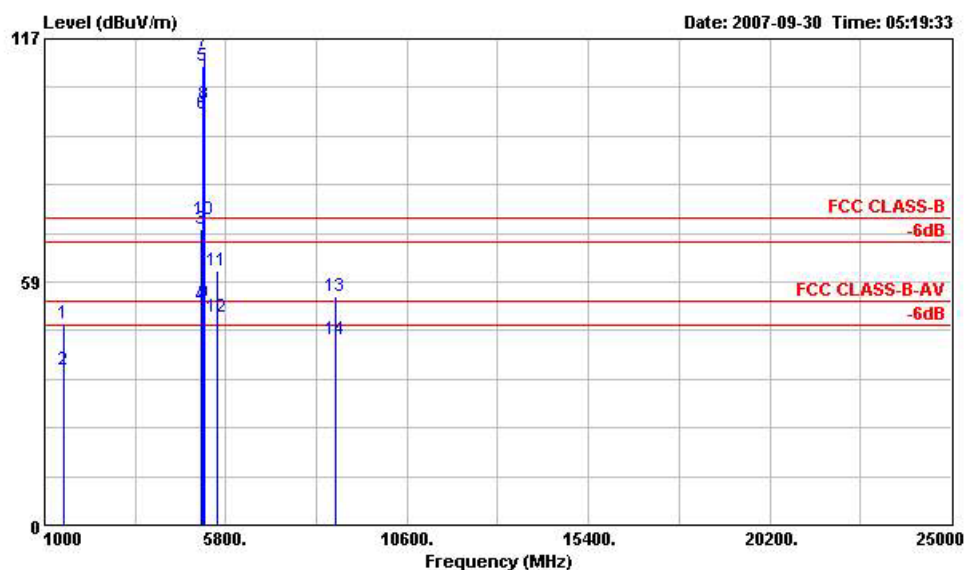
- Polarization : Vertical

■ The test that passed at minimum margin was marked by the boldface in the following table.



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m ANT2724 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch38+11n(a) Tx(40M)_Ch44
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor	Pos	Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1 !	32.970	35.65	-4.35	40.00	45.09	16.33	0.90	26.66	100	148 Peak
2	124.770	29.24	-14.26	43.50	42.20	11.90	1.51	26.37	---	---
3	250.050	37.54	-8.46	46.00	48.83	12.57	2.05	25.91	---	---
4	500.200	31.57	-14.43	46.00	38.93	16.91	2.81	27.08	---	---
5	624.100	34.53	-11.47	46.00	38.35	19.96	3.26	27.04	---	---
6	875.400	39.44	-6.56	46.00	39.57	22.62	3.92	26.67	---	---



Site : 03CH04-HY
 Condition: FCC CLASS-B 3m HF-ANT-6903 VERTICAL
 EUT : AP
 POWER : 120Vac/60Hz
 MODEL : FR 791302
 MOME : 11n(a) Tx(40M)_Ch38+11n(a) Tx(40M)_Ch44
 Data Rate: 13.5

	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	Ant	Table	
	MHz	dBuV/m	Limit	Line	Level	Factor	Loss	Factor	Pos	Pos Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	1500.000	48.61	-25.39	74.00	54.23	25.30	2.79	33.70	100	0 Peak
2	1500.000	37.14	-36.86	74.00	42.76	25.30	2.79	33.70	100	245 Average
3 !	5150.000	71.17	-2.83	74.00	66.03	33.38	6.00	34.24	100	0 Peak
4 !	5150.000	52.88	-1.12	54.00	47.74	33.38	6.00	34.24	100	352 Average
5 X	5190.000	110.53			105.34	33.42	6.00	34.23	100	0 Peak
6 X	5190.000	98.72			93.53	33.42	6.00	34.23	100	352 Average
7 X	5220.000	113.75			108.53	33.44	6.00	34.22	100	0 Peak
8 0	5220.000	101.27			96.03	33.46	6.00	34.22	100	19 Average
9 !	5250.000	53.63	-0.37	54.00	48.32	33.50	6.00	34.19	100	19 Average
10 !	5250.000	73.59	-0.41	74.00	68.28	33.50	6.00	34.19	100	0 Peak
11	5558.000	61.09	-12.91	74.00	55.33	33.83	6.01	34.09	100	0 Peak
12 !	5558.000	50.08	-3.92	54.00	44.32	33.83	6.01	34.09	100	29 Average
13	8692.000	55.14	-18.86	74.00	44.87	37.72	7.11	34.56	100	0 Peak
14	8692.000	44.79	-9.21	54.00	34.52	37.72	7.11	34.56	100	114 Average

※Remark: #5, #6, and #7 Fundamental Signal

Frequency from 25GHz to 40GHz, the emission emitted by the EUT is too low to be measured.