



FCC TEST REPORT (15.247)

REPORT NO.: RF130111E10A

MODEL NO.: TC8706-C

FCC ID: G95-TC8706-C

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF130111E10A	Original release	July 24, 2013



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1. CERTIFICATION

EQUIPMENT: Cable Modem
TRADE NAME: technicolor
MODEL NO.: TC8706-C
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: Technicolor USA, Inc.
TESTED: May 03 to 27, 2013
STANDARDS: FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10-2009
KDB558074 D01 DTS Meas Guidance v03r01
KDB662911 D01 Multiple Transmitter Output v01r02

The above equipment (Model: TC8706-C) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Phoenix Huang , **DATE:** July 24, 2013
(Phoenix Huang, Specialist)

APPROVED BY : May Chen , **DATE:** July 24, 2013
(May Chen, Manager)

2. SUMMARY OF TEST RESULTS

2.1 SUMMARY OF THE 2.4GHz BAND TEST RESULTS

Applied Standard: 47 CFR FCC Part 15 Subpart C				
Part	Standard Clause	Description of Test	Result	Under Limit
4.1	15.207	AC Power Line Conducted Emissions	Complies	13.95dB
4.2	15.247(b)(3)	Maximum Peak Output Power	Complies	4.3dB
4.3	15.247(e)	Power Spectral Density	Complies	3.58dB
4.4	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-
4.5	15.247(d)	Radiated Emissions	Complies	3.6dB
4.6	15.247(d)	Band Edge Emissions	Complies	0.5dB
4.7	15.203	Antenna Requirements	Complies	-

2.2 SUMMARY OF THE 5GHz BAND 4TEST RESULTS

Applied Standard: 47 CFR FCC Part 15 Subpart C				
Part	Standard Clause	Description of Test	Result	Under Limit
5.1	15.207	AC Power Line Conducted Emissions	Complies	16.00 dB
5.2	15.247(b)(3)	Maximum Peak Output Power	Complies	4.59dB
5.3	15.247(e)	Power Spectral Density	Complies	3.72dB
5.4	15.247(a)(2)	6dB Spectrum Bandwidth	Complies	-
5.5	15.247(d)	Radiated Emissions	Complies	1.7 dB
5.6	15.247(d)	Band Edge Emissions	Complies	0.5 dB
5.7	15.203	Antenna Requirements	Complies	-

2.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Value
Conducted emissions	2.98 dB
Radiated emissions (30MHz-1GHz)	5.43 dB
Radiated emissions (1GHz -6GHz) for Chamber H	3.54 dB
Radiated emissions (1GHz -6GHz) for Chamber G	3.73 dB
Radiated emissions (6GHz -18GHz) for Chamber H	4.08 dB
Radiated emissions (6GHz -18GHz) for Chamber G	3.90 dB
Radiated emissions (18GHz -40GHz) for Chamber H & G	4.11 dB



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2.4 INFORMATION PROVIDED BY THE MANUFACTURER

Equipment: Cable Modem

Model Number: TC8706-C

Trade Name: technicolor

Power Supply: 1) Internal power supply
 Brand : AcBel, Model: STC003
 AC Input : 100-130V 1.2A 60Hz
 DC Output : 12V 3.5A
 2) Battery
 Brand : SMP, Model: SMPCM11
 Rating : 7.4V 4300mAh

AC Power Cord: AC input cable(Detachable power cord, unshielded, 1.8m, 2pin)

Hardware Version: 1.0

Interface Availability

Interface Model	DC 12V 3.5A	LAN (10,100, 1000Mbps)	USB	Phone	Cable Modem DOCSIS 3.0 MoCA MoCA 2.0 D Band 1125MHz and 1525MHz	WLAN IEEE 802.11a/b/g/n (2.4GHz/5GHz 3*3)	DECT
TC8706-C	●	●(4 port)	●(2 port)	●(2 port)	●(1 port)	●	●

● : Equipped

○ : Not Equipped

2.5 APPLICATION OF HARMONIZED STANDARD

US Standard: 47 CFR FCC Part 15 Subpart C § 15.247

ANSI C63.10-2009

KDB558074 D01 DTS Meas Guidance v03r01

KDB662911 D01 Multiple Transmitter Output v01r02

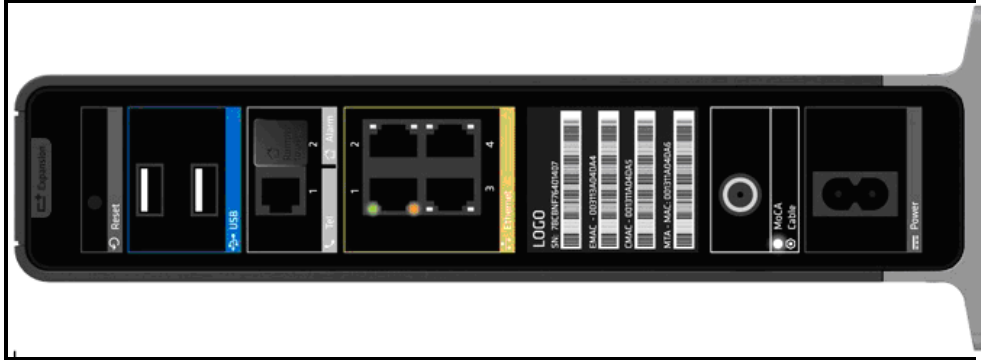
Note: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

2.6 CABLING ATTACHED TO THE EQUIPMENT

Table 1- Cable and Interconnection

Interface	Cable type	Cable length delivered with the modem	"Real life" Cable length that can be attached to this type of interface	Cable length to be used for testing	Internal/ external connection
Cable & MoCA	coaxial	NA	> 10 meter	10 meter	External
Eth1/2/3/4	UTP Cat 5	NA	> 10 meter	10 meter	Internal
Line1/2	Pair conductor	NA	> 10 meter	3 meter flat cable	Internal
USB1/2	Shielding cable	NA	< 3 meter	0.1 meter	Internal
AC power					Internal
Battery					Internal

2.7 PANEL DRAWING



3. GENERAL INFORMATION

3.1 PRODUCT DETAILS (15.247)

The radio detail of IEEE 802.11a/b/g/n is shown in the table below. For more detailed description, please refer to the manufacture's specifications or User's Manual.

Items	Description	
Product Type	802.11a /b / g: WLAN(1TX, 3RX) 802.11n: WLAN(3TX, 3RX)	
Power Type	From power adapter	
Modulation	DSSS for 802.11b; OFDM for 802.11a/g/n	
Modulation	DSSS (DBPSK, DQPSK, CCK) OFDM (BPSK / QPSK / 16QAM / 64QAM) See the below table for 802.11n	
Data Rate (Mbps)	802.11b: up to 11Mbps 802.11a / g: up to 54Mbps 802.11n: up to 450Mbps(MCS0~MCS23)	
Frequency Range	2400~2483.5MHz ; 5725 ~ 5850MHz	
Channel Spacing	2400~2483.5MHz	■ IEEE 802.11b:5MHz
		■ IEEE 802.11g:5MHz
		■ IEEE 802.11n (20MHz):5MHz
		■ IEEE 802.11n (40MHz):5MHz
	5725 ~ 5850MHz	■ IEEE 802.11a:20MHz
		■ IEEE 802.11n (20MHz):20MHz
■ IEEE 802.11n (40MHz):40MHz		
Operating Frequency	2412 ~ 2462 MHz, 5745 ~ 5825 MHz	
I/O Ports	LAN Port x 4 USB Port x 2 Phone Port x 2 Cable + MoCA Port x 1	
Channel Number	2.4GHz: 11 for 802.11b, 802.11g, 802.11n (20MHz) 7 for 802.11n (40MHz) 5GHz: 5 for 802.11a, 802.11n (20MHz) 2 for 802.11n (40MHz)	
Maximum Output Power	2.4GHz: 802.11b: 305.492mW 802.11g: 228.034mW 802.11n (20MHz):371.232mW 802.11n (40MHz):94.205mW 5GHz: 802.11a: 257.632mW 802.11n (20MHz): 347.573mW 802.11n (40MHz): 280.007mW	



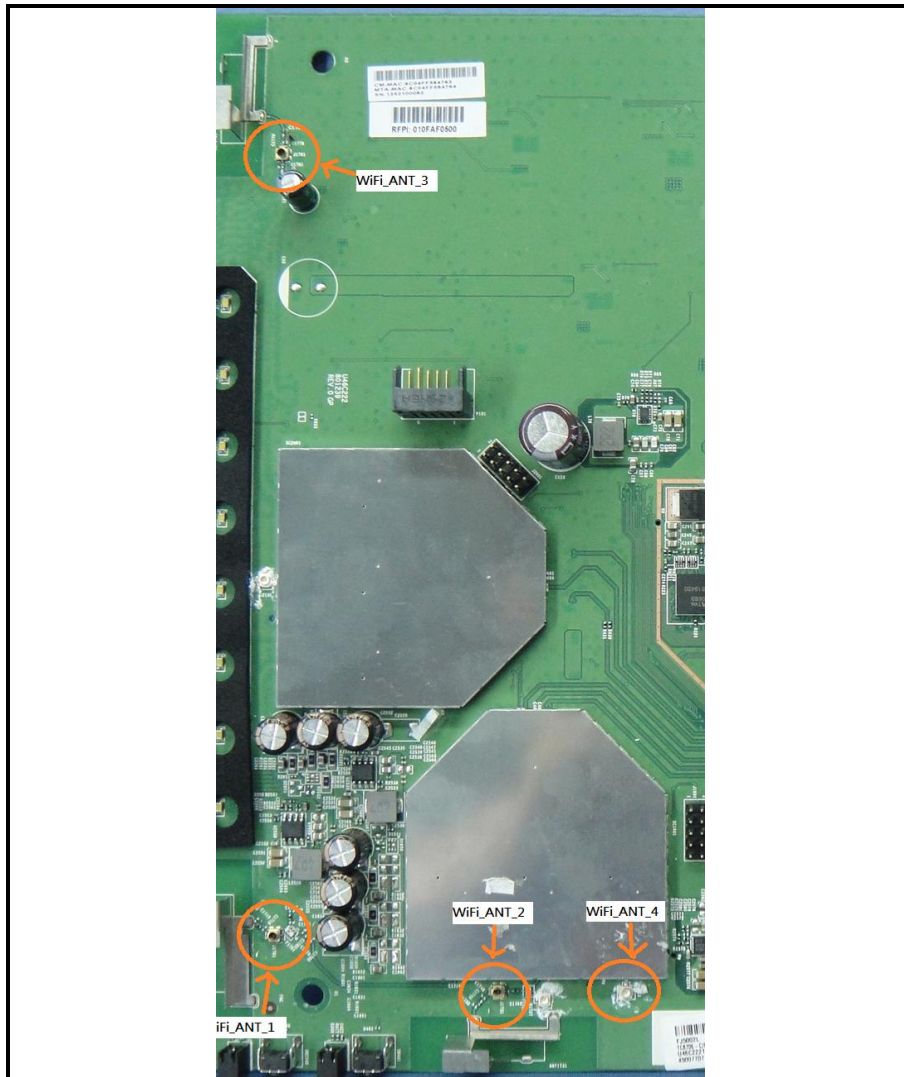
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3.2 TABLE FOR FILED ANTENNA

Antenna & Bandwidth

Transmitter Circuit	Brand	Model	Antenna Type	Peak Gain(dBi) (Include cable loss)	Frequency range (MHz to MHz)	Connector Type
Wi-Fi_1 (Ant. 1)	INPAO	WA-M-LB-00-005	Metal	4.24 for 2.4GHz 3.35 for 5GHz(Band 1) 2.57 for 5GHz(Band 4)	2400~2500 / 5150~5850	NA
Wi-Fi_2 (Ant. 2)	INPAO	WA-M-LB-00-006	Metal	3.96 for 2.4GHz 4.52 for 5GHz(Band 1) 5.52 for 5GHz(Band 4)	2400~2500 / 5150~5850	NA
Wi-Fi_3 (Ant. 3)	INPAO	WA-M-LB-00-004	Metal	2.28 for 5GHz(Band 1) 3.38 for 5GHz(Band 4)	5150~5850	NA
Wi-Fi_4 (Ant. 4)	INPAO	WA-P-LA-02-090	PCB	2.82	2400~2500	NA
DECT_1 (Ant. 5)	INPAO	WA-P-U2-01-101	PCB	3.00	1880~1950	NA
DECT_2 (Ant. 6)	INPAO	NA	Metal	2.44	1880~1950	NA

Antenna	1st (TX)		2nd (TX)		3rd (TX)	
Bandwidth Mode	20 MHz	40 MHz	20 MHz	40 MHz	20 MHz	40 MHz
802.11a	V	X	X	X	X	X
802.11b	V	X	X	X	X	X
802.11g	V	X	X	X	X	X
802.11n	V	V	V	V	V	V





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802.11n Data Rate spec

Standard	INDEX	Data Rate (Mbps)		Standard	INDEX	Data Rate (Mbps)	
		LGI (800ns)	SGL (400ns)			LGI (800ns)	SGL (400ns)
11n (20MHz) 1 stream	MCS0	6.5	7.2	11n (40MHz) 1 stream	MCS0	13.5	15
	MCS1	13	14.4		MCS1	27	30
	MCS2	19.5	21.7		MCS2	40.5	45
	MCS3	26	28.9		MCS3	54	60
	MCS4	39	43.3		MCS4	81	90
	MCS5	52	57.8		MCS5	108	120
	MCS6	58.5	65		MCS6	121.5	135
11n (20MHz) 2 stream	MCS7	65	72.2	MCS7	135	150	
	MCS8	13	14.4	11n (40MHz) 2 stream	MCS8	27	30
	MCS9	26	28.9		MCS9	54	60
	MCS10	39	43.3		MCS10	81	90
	MCS11	52	57.8		MCS11	108	120
	MCS12	78	86.7		MCS12	162	180
	MCS13	104	115.6		MCS13	216	240
MCS14	117	130	MCS14		243	270	
11n (20MHz) 3 stream	MCS15	130	144.4	MCS15	270	300	
	MCS16	19.5	21.7	11n (40MHz) 3 stream	MCS16	40.5	45
	MCS17	39	43.3		MCS17	81	90
	MCS18	58.5	65		MCS18	121.5	135
	MCS19	78	86.7		MCS19	162	180
	MCS20	117	130		MCS20	243	270
	MCS21	156	173.3		MCS21	324	360
MCS22	175.5	195	MCS22		364.5	405	
	MCS23	195	216.7	MCS23	405	450	

3.3 TRANSMIT OPERATING MODES

Transmit Operating Mode				Transmit Multiple Antennas						
<input type="checkbox"/>	Operating mode 1 (single antenna)			<input checked="" type="checkbox"/>	1TX					
<input type="checkbox"/>	Operating mode 2 (multiple antenna, no beam forming)			<input checked="" type="checkbox"/>	2TX	<input checked="" type="checkbox"/>	3TX	<input type="checkbox"/>	4TX	
<input type="checkbox"/>	Operating mode 3 (multiple antenna, with beam forming)			<input type="checkbox"/>	2TX	<input type="checkbox"/>	3TX	<input type="checkbox"/>	4TX	
<input type="checkbox"/>	802.11a	Operating mode	<input checked="" type="checkbox"/>	1TX	<input type="checkbox"/>	2TX	<input type="checkbox"/>	3TX	<input type="checkbox"/>	Cyclic shift
<input type="checkbox"/>	802.11b	Operating mode	<input checked="" type="checkbox"/>	1TX	<input type="checkbox"/>	2TX	<input type="checkbox"/>	3TX	<input type="checkbox"/>	Cyclic shift
<input type="checkbox"/>	802.11g	Operating mode	<input checked="" type="checkbox"/>	1TX	<input type="checkbox"/>	2TX	<input type="checkbox"/>	3TX	<input type="checkbox"/>	Cyclic shift
<input type="checkbox"/>	802.11n(20MHz)	Operating mode	<input checked="" type="checkbox"/>	1TX	<input checked="" type="checkbox"/>	2TX	<input checked="" type="checkbox"/>	3TX	<input type="checkbox"/>	Cyclic shift
<input type="checkbox"/>	802.11n(40MHz)	Operating mode	<input checked="" type="checkbox"/>	1TX	<input checked="" type="checkbox"/>	2TX	<input checked="" type="checkbox"/>	3TX	<input type="checkbox"/>	Cyclic shift

Note1: For IEEE802.11n, MCS0~MCS7: 1TX; MCS8~MCS15:2TX; MCS16~MCS23:3TX



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3.4 TABLE FOR THE 2.4GHz BAND CARRIER FREQUENCIES

Operated in 2400 ~ 2483.5MHz band:

11 channels are provided for 802.11b, 802.11g, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
1	2412MHz	7	2442MHz
2	2417MHz	8	2447MHz
3	2422MHz	9	2452MHz
4	2427MHz	10	2457MHz
5	2432MHz	11	2462MHz
6	2437MHz		

7 channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
3	2422MHz	7	2442MHz
4	2427MHz	8	2447MHz
5	2432MHz	9	2452MHz
6	2437MHz		

3.5 TABLE FOR THE 5GHz BAND 4 CARRIER FREQUENCIES

Operated in 5725 ~ 5850MHz band:

5 channels are provided for 802.11a, 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz		

2 channels are provided for 802.11n (40MHz):

CHANNEL	FREQUENCY
151	5755 MHz
159	5795 MHz



3.6 TABLE FOR THE 2.4GHZ BAND TEST MODES

Preliminary tests were performed in different test configuration to find the worst radiated emission. The worst test configuration shown in the table below is the worst-case rate with respect to the specific test item. The below table is all possible configuration for searching the worst cases.

Test Items	Mode	Note	Channel	Data Rate	Antenna
AC Power Line Conducted Emissions	11n(20MHz)	OFDM/BPSK	6	MCS16	1+2+4
Maximum Peak Output Power Maximum Average Output Power	11b	DSSS/DBPSK	1/6/11	1Mbps	1
				1Mbps	2
				1Mbps	4
	11g	OFDM/BPSK	1/6/11	6Mbps	1
				6Mbps	2
				6Mbps	4
	11n(20MHz)	OFDM/BPSK	1/6/11	MCS0	1
				MCS0	2
				MCS0	4
				MCS8	1+2
				MCS8	1+4
				MCS8	2+4
	11n(40MHz)	OFDM/BPSK	3/6/9	MCS0	1
				MCS0	2
				MCS0	4
				MCS8	1+2
				MCS8	1+4
				MCS8	2+4
Power Spectral Density	11b	DSSS/DBPSK	1/6	1Mbps	1
			11	1Mbps	4
	11g	OFDM/BPSK	1/6/11	6Mbps	4
	11n(20MHz)		1/6	MCS0	4
			11	MCS0	1
			1/6/11	MCS8	1+4
			1/6/11	MCS16	1+2+4
			3/6/9	MCS0	1
			3/6/9	MCS8	1+4
	11n(40MHz)		3/6/9	MCS16	1+2+4



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Test Items	Mode	Note	Channel	Data Rate	Antenna	
6dB Spectrum Bandwidth	11b	DSSS/DBPSK	1/6	1Mbps	1	
			11	1Mbps	4	
	11g	OFDM/BPSK	1/6/11	6Mbps	4	
			1/6	MCS0	4	
			11	MCS0	1	
			1/6/11	MCS8	1+4	
			1/6/11	MCS16	1+2+4	
			3/6/9	MCS0	1	
			3/6/9	MCS8	1+4	
			3/6/9	MCS16	1+2+4	
Band Edge Emissions (Radiated)	11b	DSSS/DBPSK	1/6/11	1Mbps	1	
				1Mbps	4	
	11g	OFDM/BPSK	1/11	6Mbps	1	
				6Mbps	4	
			6	6Mbps	2	
				6Mbps	4	
			1/11	MCS0	1	
				MCS0	4	
	11n(20MHz)	OFDM/BPSK	6	MCS0	2	
				MCS0	4	
			1/6/11	MCS8	1+2	
			1/6/11	MCS8	1+4	
			1/6/11	MCS16	1+2+4	
			11n(40MHz)	OFDM/BPSK		MCS0
		MCS0			4	
	3/6/9	MCS8			1+2	
		MCS8			1+4	
		MCS16			1+2+4	
	Radiated Emissions Above 1GHz(Radiated)	11b			DSSS/DBPSK	1/6/11
				1Mbps		4
11g		OFDM/BPSK	1/11	6Mbps	1	
				6Mbps	4	
			6	6Mbps	2	
				6Mbps	4	
			1/11	MCS0	1	
				MCS0	4	
11n(20MHz)		OFDM/BPSK	6	MCS0	2	
				MCS0	4	
			1/6/11	MCS8	1+2	
			1/6/11	MCS8	1+4	
			1/6/11	MCS16	1+2+4	
			11n(40MHz)	OFDM/BPSK		MCS0
		MCS0			4	
3/6/9		MCS8			1+2	
		MCS8			1+4	
		MCS16			1+2+4	
Radiated Emissions Below 1GHz(Radiated)		11n(20MHz)			OFDM/BPSK	6

3.7 TABLE FOR THE 5GHz BAND 4 TEST MODES

Preliminary tests were performed in different test configuration to find the worst radiated emission. The worst test configuration shown in the table below is the worst-case rate with respect to the specific test item. The below table is all possible configuration for searching the worst cases.

Test Items	Mode	Note	Channel	Data Rate	Antenna
AC Power Line Conducted Emissions	11n(20MHz)	OFDM/BPSK	149	MCS16	1+2+3
Maximum Peak Output Power Maximum Average Output Power	11a	OFDM/BPSK	149/157/165	6Mbps	1
				6Mbps	2
				6Mbps	3
	11n(20MHz)		149/157/165	MCS0	1
				MCS0	2
				MCS0	3
			MCS8	1+2	
			MCS8	1+3	
			MCS8	2+3	
			MCS16	1+2+3	
	11n(40MHz)		151/159	MCS0	1
				MCS0	2
				MCS0	3
				MCS8	1+2
				MCS8	1+3
MCS8		2+3			
Power Spectral Density	11a	149/157/165	6Mbps	3	
	11n(20MHz)	149/157/165	MCS0	3	
		149/157	MCS8	1+3	
		165	MCS8	1+2	
	11n(40MHz)	149/157/165	MCS16	1+2+3	
		151	MCS0	2	
		159	MCS0	1	
		151/159	MCS8	1+3	
6dB Spectrum Bandwidth	11a	149/157/165	6Mbps	3	
	11n(20MHz)	149/157/165	MCS0	3	
		149/157	MCS8	1+3	
		165	MCS8	1+2	
	11n(40MHz)	149/157/165	MCS16	1+2+3	
		159	MCS0	2	
		159	MCS0	1	
		151/159	MCS8	1+3	
		151/159	MCS16	1+2+3	



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Test Items	Mode	Note	Channel	Data Rate	Antenna
Band Edge Emissions (Radiated)	11a	OFDM/BPSK	149/157/165	6Mbps	3
	11n(20MHz)		149/157/165	MCS0	3
			149/157	MCS8	1+3
			165	MCS8	1+2
			149/157/165	MCS16	1+2+3
	11n(40MHz)		151	MCS0	2
			159	MCS0	1
			151/159	MCS8	1+3
			151/159	MCS16	1+2+3
Radiated Emissions Above 1GHz(Radiated)	11a	OFDM/BPSK	149/157/165	6Mbps	3
	11n(20MHz)		149/157/165	MCS0	3
			149/157	MCS8	1+3
			165	MCS8	1+2
			149/157/165	MCS16	1+2+3
	11n(40MHz)		151	MCS0	2
			159	MCS0	1
			151/159	MCS8	1+3
			151/159	MCS16	1+2+3
Radiated Emissions Below 1GHz(Radiated)	11n(20MHz)	OFDM/BPSK	149	MCS16	1+2+3



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3.8 TABLE FOR TEST LOCATIONS

Test Site No.	Site Category	Location	FCC Reg. No.	IC File No.	VCCI Reg. No.
Shielded Room No. C.	Conduction	Hsin Chu	-	-	C-3611
966 Chamber No. G	SAC	Hsin Chu	966073	IC 7450H-2	-
966 Chamber No. H	SAC	Hsin Chu	797305	IC 7450H-3	-
OVEN B	OVEN Room	Hsin Chu	-	-	-

Semi Anechoic Chamber(SAC)

3.9 TABLE FOR SUPPORTING UNITS

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK COMPUTER	DELL	PP32LA	FSLB32S	FCC DoC
2	iPod shuffle	Apple	MC749TA/A	CC4DMFJUDFD M	NA
3	iPod shuffle	Apple	MC749TA/A	CC4DN25WDF DM	NA
4	TELEPHONE	WONDER	WD-303	8C17DA02763	NA
5	TELEPHONE	WONDER	WD-303	7C17KA05211	NA
6	HUB	ZyXEL	ES-116P	S060H0200021 5	FCC DoC



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3.10 TABLE FOR THE 2.4GHz BAND PARAMETERS OF TEST 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.

The Power Setting Parameter					
Power Level		1			
Test Software Version		DOS			
Worst Modulation Mode		Number of Transmit Chains (NTX)	Frequency (MHz)	Power Setting	Data Rate / MCS
Ant. 1	802.11b	1	2412	85	1Mbps
Ant. 1	802.11b	1	2437	94	1Mbps
Ant. 1	802.11b	1	2462	84	1Mbps
Ant. 2	802.11b	1	2412	78	1Mbps
Ant. 2	802.11b	1	2437	95	1Mbps
Ant. 2	802.11b	1	2462	80	1Mbps
Ant. 4	802.11b	1	2412	85	1Mbps
Ant. 4	802.11b	1	2437	92	1Mbps
Ant. 4	802.11b	1	2462	91	1Mbps
Ant. 1	802.11g	1	2412	65	6Mbps
Ant. 1	802.11g	1	2437	93	6Mbps
Ant. 1	802.11g	1	2462	71	6Mbps
Ant. 2	802.11g	1	2412	52	6Mbps
Ant. 2	802.11g	1	2437	87	6Mbps
Ant. 2	802.11g	1	2462	57	6Mbps
Ant. 4	802.11g	1	2412	69	6Mbps
Ant. 4	802.11g	1	2437	65	6Mbps
Ant. 4	802.11g	1	2462	65	6Mbps
Ant. 1	802.11n(20MHz)	1	2412	60	MCS0
Ant. 1	802.11n(20MHz)	1	2437	93	MCS0
Ant. 1	802.11n(20MHz)	1	2462	71	MCS0
Ant. 2	802.11n(20MHz)	1	2412	51	MCS0
Ant. 2	802.11n(20MHz)	1	2437	87	MCS0
Ant. 2	802.11n(20MHz)	1	2462	57	MCS0
Ant. 4	802.11n(20MHz)	1	2412	65	MCS0
Ant. 4	802.11n(20MHz)	1	2437	49	MCS0
Ant. 4	802.11n(20MHz)	1	2462	67	MCS0



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Ant. 1+2	802.11n(20MHz)	2	2412	51	MCS8
Ant. 1+2	802.11n(20MHz)	2	2437	87	MCS8
Ant. 1+2	802.11n(20MHz)	2	2462	64	MCS8
Ant. 1+4	802.11n(20MHz)	2	2412	62	MCS8
Ant. 1+4	802.11n(20MHz)	2	2437	92	MCS8
Ant. 1+4	802.11n(20MHz)	2	2462	62	MCS8
Ant. 2+4	802.11n(20MHz)	2	2412	53	MCS8
Ant. 2+4	802.11n(20MHz)	2	2437	85	MCS8
Ant. 2+4	802.11n(20MHz)	2	2462	56	MCS8
Ant. 1+2+4	802.11n(20MHz)	3	2412	53	MCS16
Ant. 1+2+4	802.11n(20MHz)	3	2437	85	MCS16
Ant. 1+2+4	802.11n(20MHz)	3	2462	58	MCS16
Ant. 1	802.11n(40MHz)	1	2422	42	MCS0
Ant. 1	802.11n(40MHz)	1	2437	68	MCS0
Ant. 1	802.11n(40MHz)	1	2452	66	MCS0
Ant. 2	802.11n(40MHz)	1	2422	40	MCS0
Ant. 2	802.11n(40MHz)	1	2437	51	MCS0
Ant. 2	802.11n(40MHz)	1	2452	46	MCS0
Ant. 4	802.11n(40MHz)	1	2422	50	MCS0
Ant. 4	802.11n(40MHz)	1	2437	67	MCS0
Ant. 4	802.11n(40MHz)	1	2452	66	MCS0
Ant. 1+2	802.11n(40MHz)	2	2422	40	MCS8
Ant. 1+2	802.11n(40MHz)	2	2437	55	MCS8
Ant. 1+2	802.11n(40MHz)	2	2452	45	MCS8
Ant. 1+4	802.11n(40MHz)	2	2422	46	MCS8
Ant. 1+4	802.11n(40MHz)	2	2437	64	MCS8
Ant. 1+4	802.11n(40MHz)	2	2452	62	MCS8
Ant. 2+4	802.11n(40MHz)	2	2422	42	MCS8
Ant. 2+4	802.11n(40MHz)	2	2437	54	MCS8
Ant. 2+4	802.11n(40MHz)	2	2452	52	MCS8
Ant. 1+2+4	802.11n(40MHz)	3	2422	42	MCS16
Ant. 1+2+4	802.11n(40MHz)	3	2437	55	MCS16
Ant. 1+2+4	802.11n(40MHz)	3	2452	48	MCS16



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3.11 TABLE FOR THE 5GHz BAND 4 PARAMETERS OF TEST 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.

The Power Setting Parameter					
Power Level		1			
Test Software Version		DOS			
Worst Modulation Mode		Number of Transmit Chains (NTX)	Frequency (MHz)	Power Setting	Data Rate / MCS
Ant. 1	802.11a	1	5745	92	6Mbps
Ant. 1	802.11a	1	5785	92	6Mbps
Ant. 1	802.11a	1	5825	92	6Mbps
Ant. 2	802.11a	1	5745	88	6Mbps
Ant. 2	802.11a	1	5785	86	6Mbps
Ant. 2	802.11a	1	5825	86	6Mbps
Ant. 3	802.11a	1	5745	92	6Mbps
Ant. 3	802.11a	1	5785	92	6Mbps
Ant. 3	802.11a	1	5825	92	6Mbps
Ant. 1	802.11n(20MHz)	1	5745	90	MCS0
Ant. 1	802.11n(20MHz)	1	5785	92	MCS0
Ant. 1	802.11n(20MHz)	1	5825	92	MCS0
Ant. 2	802.11n(20MHz)	1	5745	89	MCS0
Ant. 2	802.11n(20MHz)	1	5785	86	MCS0
Ant. 2	802.11n(20MHz)	1	5825	86	MCS0
Ant. 3	802.11n(20MHz)	1	5745	89	MCS0
Ant. 3	802.11n(20MHz)	1	5785	92	MCS0
Ant. 3	802.11n(20MHz)	1	5825	92	MCS0
Ant. 1+2	802.11n(20MHz)	2	5745	82	MCS8
Ant. 1+2	802.11n(20MHz)	2	5785	79	MCS8
Ant. 1+2	802.11n(20MHz)	2	5825	83	MCS8
Ant. 1+3	802.11n(20MHz)	2	5745	86	MCS8
Ant. 1+3	802.11n(20MHz)	2	5785	83	MCS8
Ant. 1+3	802.11n(20MHz)	2	5825	83	MCS8
Ant. 2+3	802.11n(20MHz)	2	5745	82	MCS8
Ant. 2+3	802.11n(20MHz)	2	5785	79	MCS8
Ant. 2+3	802.11n(20MHz)	2	5825	80	MCS8



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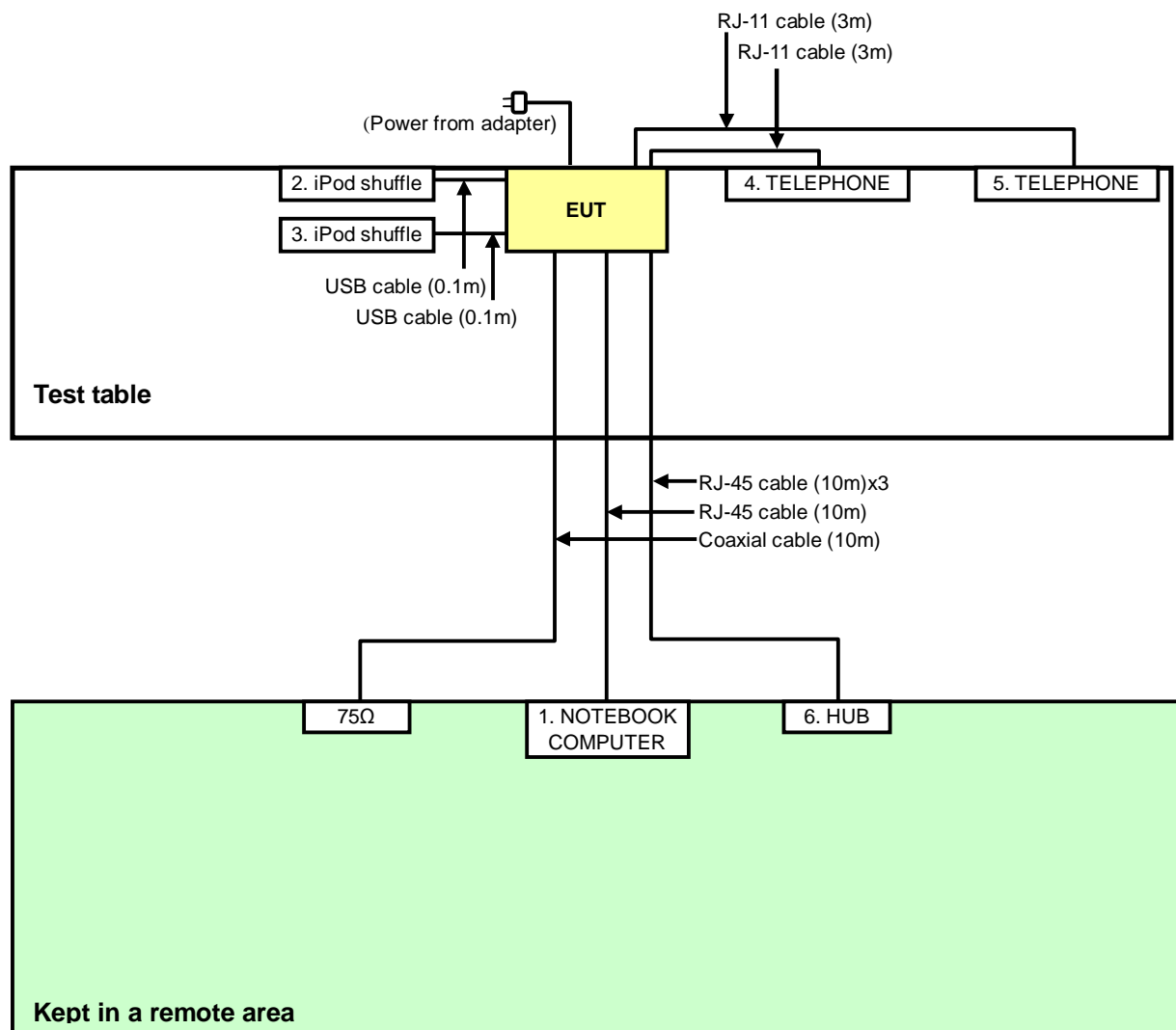
Ant. 1+2+3	802.11n(20MHz)	3	5745	78	MCS16
Ant. 1+2+3	802.11n(20MHz)	3	5785	72	MCS16
Ant. 1+2+3	802.11n(20MHz)	3	5825	73	MCS16
Ant. 1	802.11n(40MHz)	1	5755	87	MCS0
Ant. 1	802.11n(40MHz)	1	5795	87	MCS0
Ant. 2	802.11n(40MHz)	1	5755	85	MCS0
Ant. 2	802.11n(40MHz)	1	5795	87	MCS0
Ant. 3	802.11n(40MHz)	1	5755	88	MCS0
Ant. 3	802.11n(40MHz)	1	5795	92	MCS0
Ant. 1+2	802.11n(40MHz)	2	5755	83	MCS8
Ant. 1+2	802.11n(40MHz)	2	5795	81	MCS8
Ant. 1+3	802.11n(40MHz)	2	5755	87	MCS8
Ant. 1+3	802.11n(40MHz)	2	5795	85	MCS8
Ant. 2+3	802.11n(40MHz)	2	5755	83	MCS8
Ant. 2+3	802.11n(40MHz)	2	5795	80	MCS8
Ant. 1+2+3	802.11n(40MHz)	3	5755	80	MCS16
Ant. 1+2+3	802.11n(40MHz)	3	5795	74	MCS16

3.12 EUT OPERATING DURING TEST

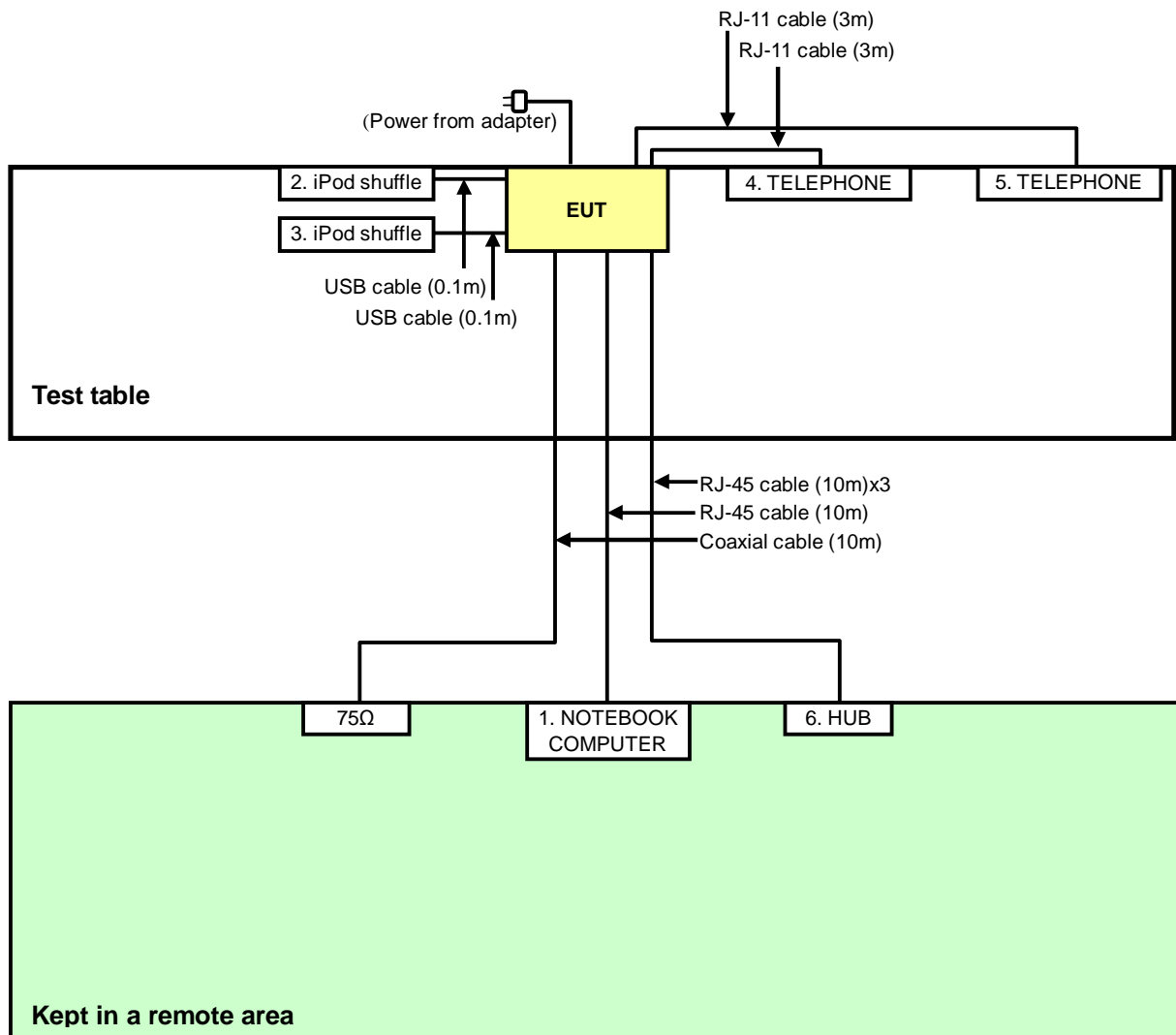
The communication partner run test program “MTool V2.0.0.3” to enable EUT under transmission/receiving condition continuously at specific channel frequency.

3.13 TEST CONFIGURATION

3.13.1 RADIATED EMISSION TEST CONFIGURATION



3.13.2 AC POWER LINE CONDUCTED EMISSION TEST CONFIGURATION



4. TEST 2.4GHz BAND RESULTS

4.1 AC POWER LINE CONDUCTED EMISSION MEASUREMENT

4.1.1 LIMITS

For this product which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

4.1.2 MEASURING INSTRUMENTS AND SETTING

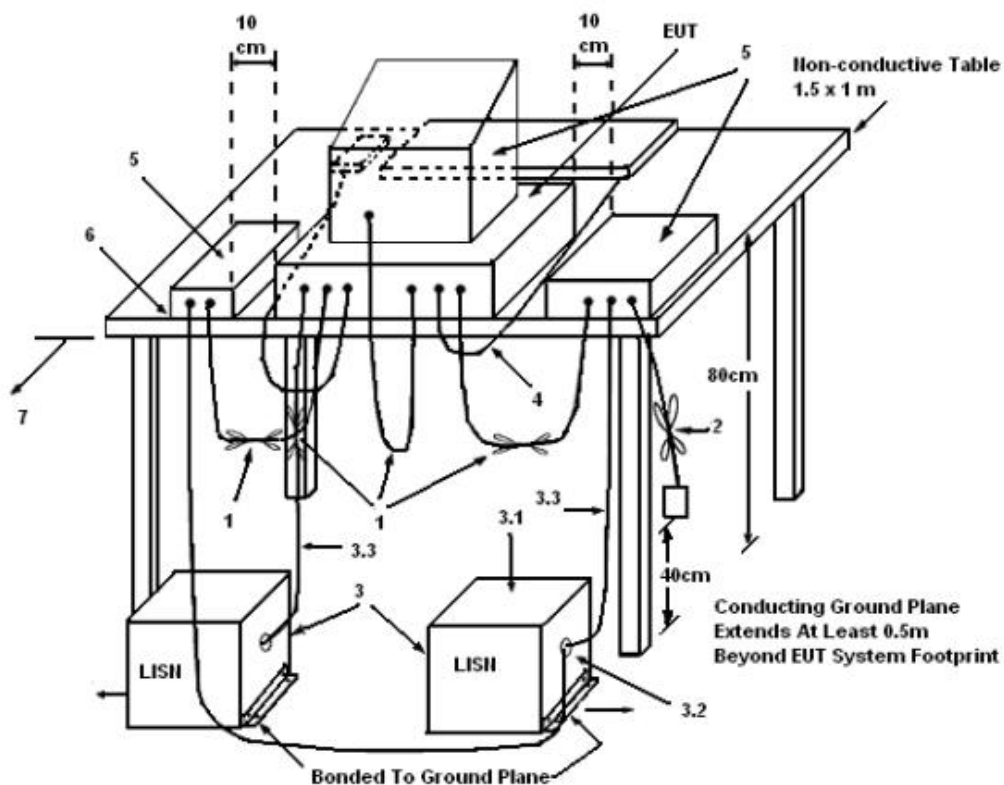
Please refer to section 6 of equipments list in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.1.3 TEST PROCEDURES

1. Configure the EUT according to ANSI C63.10. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
4. The frequency range from 150 kHz to 30 MHz was searched.
5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. The measurement has to be done between each power line and ground at the power terminal.

4.1.4 TEST SETUP LAYOUT



LEGEND:

1. 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.
2. 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.
3. EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω . LISN can be placed on top of, or immediately beneath, reference ground plane.
 - (3.1) All other equipment powered from additional LISN(s).
 - (3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
 - (3.3) LISN at least 80 cm from nearest part of EUT chassis.
4. Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
5. Non-EUT components of EUT system being tested.
6. Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
7. Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

4.1.5 TEST DEVIATION

There is no deviation with the original standard.

4.1.6 EUT OPERATING DURING TEST

The EUT was placed on the test table and programmed in normal function.



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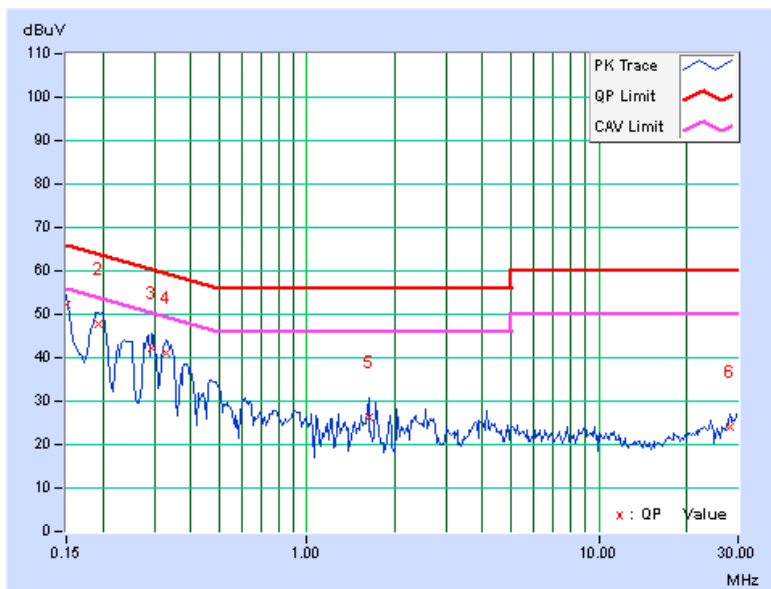
4.1.7 RESULTS OF AC POWER LINE CONDUCTED EMISSION MEASUREMENT

TEMPERATURE	25 °C	HUMIDITY	70 %
TEST ENGINEER	Mike Hsieh	PHASE	Line (L)
CONFIGURATIONS	802.11n(20MHz, MCS16) CH 6 / Ant.1 + Ant.2 + Ant.4		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
	1	0.15000	0.10	51.95	37.06	52.05	37.16	66.00	56.00	-13.95
2	0.19297	0.11	47.56	37.70	47.67	37.81	63.91	53.91	-16.24	-16.10
3	0.29453	0.12	42.20	32.47	42.32	32.59	60.40	50.40	-18.08	-17.81
4	0.32969	0.12	41.08	31.49	41.20	31.61	59.46	49.46	-18.26	-17.85
5	1.62500	0.19	26.06	23.82	26.25	24.01	56.00	46.00	-29.75	-21.99
6	27.98828	1.23	22.92	19.87	24.15	21.10	60.00	50.00	-35.85	-28.90

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value





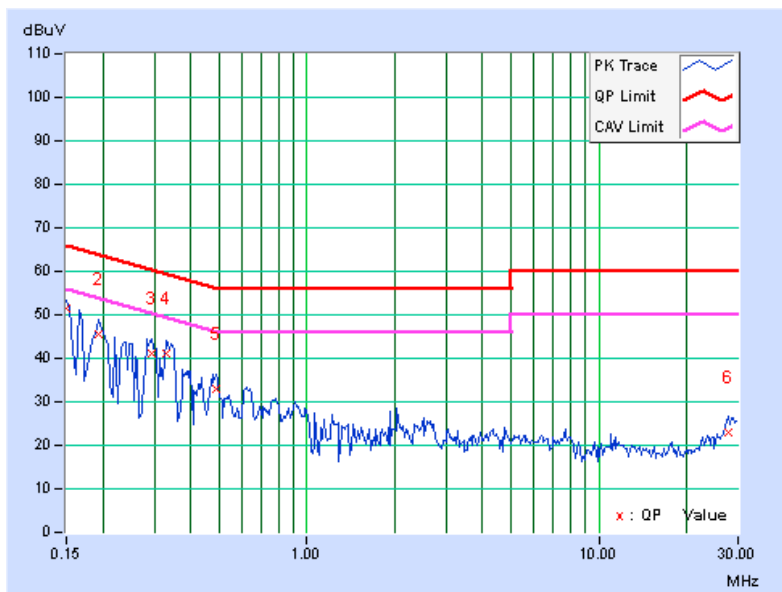
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TEMPERATURE	25 °C	HUMIDITY	70 %
TEST ENGINEER	Mike Hsieh	PHASE	Neutral (N)
CONFIGURATIONS	802.11n(20MHz, MCS16) CH 6 / Ant.1 + Ant.2 + Ant.4		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
	1	0.15000	0.08	51.24	38.76	51.32	38.84	66.00	56.00	-14.68
2	0.19297	0.09	45.45	36.10	45.54	36.19	63.91	53.91	-18.37	-17.72
3	0.29453	0.10	41.02	31.93	41.12	32.03	60.40	50.40	-19.27	-18.36
4	0.32969	0.11	40.90	30.61	41.01	30.72	59.46	49.46	-18.45	-18.74
5	0.48594	0.12	32.88	24.55	33.00	24.67	56.24	46.24	-23.23	-21.56
6	27.68359	0.85	21.98	17.42	22.83	18.27	60.00	50.00	-37.17	-31.73

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



4.2 CONDUCTED OUTPUT POWER MEASUREMENT

4.2.1 LIMITS

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. The limit has to be reduced by the amount in dB that the gain of the antenna exceed 6dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

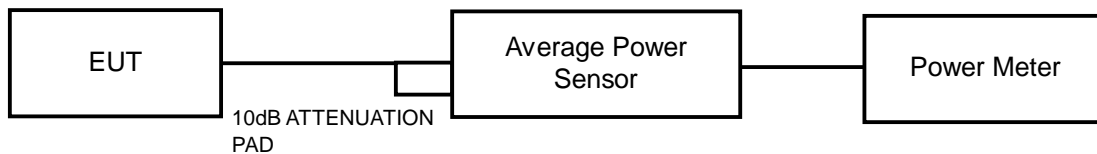
4.2.2 MEASURING INSTRUMENTS

Please refer to section 6 of equipments list in this report.

4.2.3 TEST PROCEDURES

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor and enable the trigger function to get the all on time transmission . Record the average power level.

4.2.4 TEST SETUP LAYOUT



4.2.5 TEST DEVIATION

There is no deviation with the original standard.

4.2.6 EUT OPERATING DURING TEST

The EUT was programmed to be in continuously transmitting mode.



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4.2.7 TEST RESULT OF CONDUCTED OUTPUT POWER

FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11b
DUTY CYCLE	98.9%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11b<Ant. 1>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	137.721	21.39	30	PASS
6	2437	305.492	24.85	30	PASS
11	2462	130.918	21.17	30	PASS

802.11b<Ant. 2>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	106.905	20.29	30	PASS
6	2437	280.543	24.48	30	PASS
11	2462	114.815	20.60	30	PASS

802.11b<Ant. 4>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	133.045	21.24	30	PASS
6	2437	201.837	23.05	30	PASS
11	2462	200.447	23.02	30	PASS



A D T

FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11g
DUTY CYCLE	99%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11g<Ant. 1>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	37.670	15.76	30	PASS
6	2437	168.655	22.27	30	PASS
11	2462	58.749	17.69	30	PASS

802.11g<Ant. 2>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	21.184	13.26	30	PASS
6	2437	191.426	22.82	30	PASS
11	2462	31.696	15.01	30	PASS

802.11g<Ant. 4>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	52.360	17.19	30	PASS
6	2437	228.034	23.58	30	PASS
11	2462	61.944	17.92	30	PASS



A D T

FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (20MHz, MCS0)
DUTY CYCLE	99%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11n(20MHz, MCS0)<Ant. 1>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	29.040	14.63	30	PASS
6	2437	165.196	22.18	30	PASS
11	2462	54.828	17.39	30	PASS

802.11n(20MHz, MCS0)<Ant. 2>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	19.011	12.79	30	PASS
6	2437	194.536	22.89	30	PASS
11	2462	31.696	15.01	30	PASS

802.11n(20MHz, MCS0)<Ant. 4>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
1	2412	40.551	16.08	30	PASS
6	2437	13.709	11.37	30	PASS
11	2462	46.238	16.65	30	PASS



A D T

FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (20MHz, MCS8)
DUTY CYCLE	98%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11n(20MHz, MCS8)<Ant. 1+ Ant. 2>

CHAN.	FREQUENCY (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 2	Ant. 1				
1	2412	12.69	13.04	38.715	15.88	30	PASS
6	2437	21.47	21.69	287.852	24.59	30	PASS
11	2462	17.01	15.64	86.878	19.39	30	PASS

802.11n(20MHz, MCS8)<Ant. 1+ Ant. 4>

CHAN.	FREQUENCY (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 4	Ant. 1				
1	2412	15.28	15.21	66.918	18.26	30	PASS
6	2437	22.17	22.79	354.924	25.50	30	PASS
11	2462	14.57	15.04	60.557	17.82	30	PASS

802.11n(20MHz, MCS8)<Ant. 2+ Ant. 4>

CHAN.	FREQUENCY (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 4	Ant. 2				
1	2412	12.84	13.61	42.192	16.25	30	PASS
6	2437	20.94	21.47	264.446	24.22	30	PASS
11	2462	13.79	14.68	53.309	17.27	30	PASS



A D T

FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (20MHz, MCS16)
DUTY CYCLE	97.4%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11n(20MHz, MCS16)< Ant. 1+ Ant. 2+ Ant. 4>

CHAN.	FREQUENCY (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 4	Ant. 2	Ant. 1				
1	2412	13.24	13.94	13.41	67.788	18.31	30	PASS
6	2437	20.57	21.41	20.75	371.232	25.70	30	PASS
11	2462	14.01	15.43	13.92	84.751	19.28	30	PASS



A D T

FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (40MHz, MCS0)
DUTY CYCLE	98.3%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11n(40MHz, MCS0)<Ant. 1>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
3	2422	14.859	11.72	30	PASS
6	2437	55.081	17.41	30	PASS
9	2452	51.642	17.13	30	PASS

802.11n(40MHz, MCS0)<Ant. 2>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
3	2422	9.268	9.67	30	PASS
6	2437	21.777	13.38	30	PASS
9	2452	20.512	13.12	30	PASS

802.11n(40MHz, MCS0)<Ant. 4>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
3	2422	19.143	12.82	30	PASS
6	2437	53.580	17.29	30	PASS
9	2452	54.954	17.40	30	PASS



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FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (40MHz, MCS8)
DUTY CYCLE	96.5%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11n(40MHz, MCS8)<Ant. 1+ Ant. 2>

CHAN.	FREQUE NCY (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 2	Ant. 1				
3	2422	9.87	10.95	22.150	13.45	30	PASS
6	2437	15.17	14.74	62.670	17.97	30	PASS
9	2452	11.43	11.49	27.993	14.47	30	PASS

802.11n(40MHz, MCS8)<Ant. 1+ Ant. 4 >

CHAN.	FREQUE NCY (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 4	Ant. 1				
3	2422	11.14	12.71	31.666	15.01	30	PASS
6	2437	16.79	16.67	94.205	19.74	30	PASS
9	2452	16.30	16.07	83.116	19.20	30	PASS

802.11n(40MHz, MCS8)<Ant. 2+ Ant. 4 >

CHAN.	FREQUE NCY (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 4	Ant. 2				
3	2422	9.25	10.33	19.203	12.83	30	PASS
6	2437	14.01	14.96	56.510	17.52	30	PASS
9	2452	10.07	11.43	24.062	13.81	30	PASS



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FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (40MHz, MCS16)
DUTY CYCLE	95.1%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11n(40MHz, MCS16)< Ant. 1+ Ant. 2+ Ant. 4>

CHAN.	FREQUENCY (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 4	Ant. 2	Ant. 1				
3	2422	9.25	10.33	10.58	30.632	14.86	30	PASS
6	2437	14.25	15.22	14.74	89.658	19.53	30	PASS
9	2452	14.29	13.06	13.16	67.784	18.31	30	PASS

4.3 POWER SPECTRAL DENSITY MEASUREMENT

4.3.1 LIMITS

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.3.2 MEASURING INSTRUMENTS AND SETTING

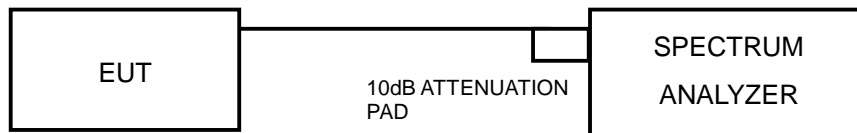
Please refer to section 6 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Power Meter Parameter	Setting
Attenuation	Auto
Span Frequency	Set the analyzer span to at least 1.5 times the DTS channel bandwidth.
RB	30 kHz
VB	100 kHz
Detector	RMS
Trace	Averaging(RMS) mode over a minimum of 100 traces
Sweep Time	Auto couple

4.3.3 TEST PROCEDURES

1. Test was performed in accordance with KDB558074 Guidance for Performing Compliance Measurements on Digital Transmission Systems(DTS) Operating under §15.247 section 5.3.2. Multiple antenna system was performed in accordance with KDB 662911 in-Band Power Spectral Density(PSD) Measurements(2) Measure and add $10\log(N)$ dB (as described in preceding section)
2. This measurement requires that EUT could be configured to transmit continuously(at a minimum duty cycle of 98%) at full power over the measurement duration. Time intervals during which the transmitter is off or transmitting at reduced power levels shall not be included
3. Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$ (use of a greater number of measurement points than this minimum requirement is recommended).
4. Use the peak marker function to determine the maximum level in any 30 kHz band segment within the fundamental EBW.
5. Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3 \text{ kHz}/30\text{kHz})$
6. The resulting PSD level must be $\leq 8 \text{ dBm}$.

4.3.4 TEST SETUP LAYOUT



4.3.5 TEST DEVIATION

There is no deviation with the original standard.

4.3.6 EUT OPERATING DURING TEST

The EUT was programmed to be in continuously transmitting mode.



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4.3.7 TEST RESULT OF POWER SPECTRAL DENSITY

FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11b
DUTY CYCLE	98.9%	DUTY FACTOR	0.05 dB

802.11b<Ant. 1>

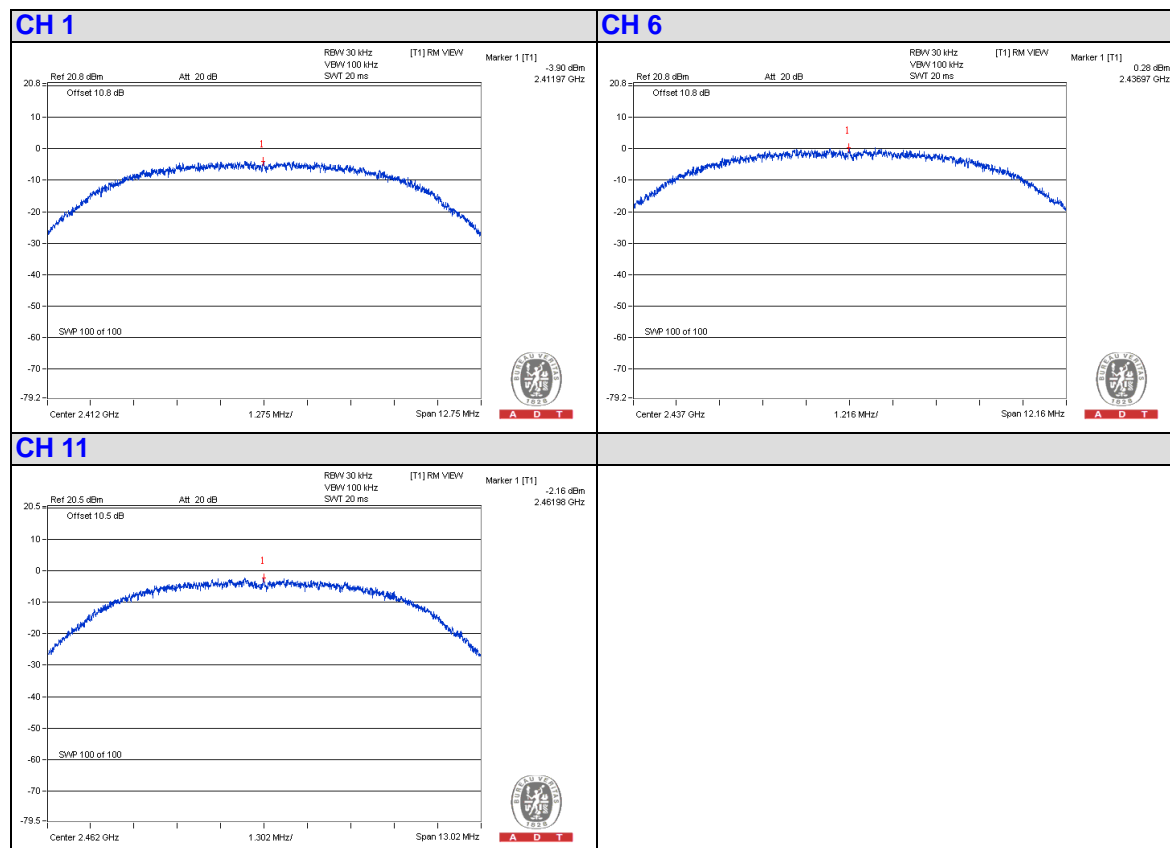
Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-3.90	-0.39	-0.34	8	PASS
6	2437	0.28	0.03	0.08	8	PASS

Note: Power Density + duty factor = Total Power Density

802.11b<Ant. 4>

Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
11	2462	-2.16	-0.22	-0.17	8	PASS

Note: Power Density + duty factor = Total Power Density





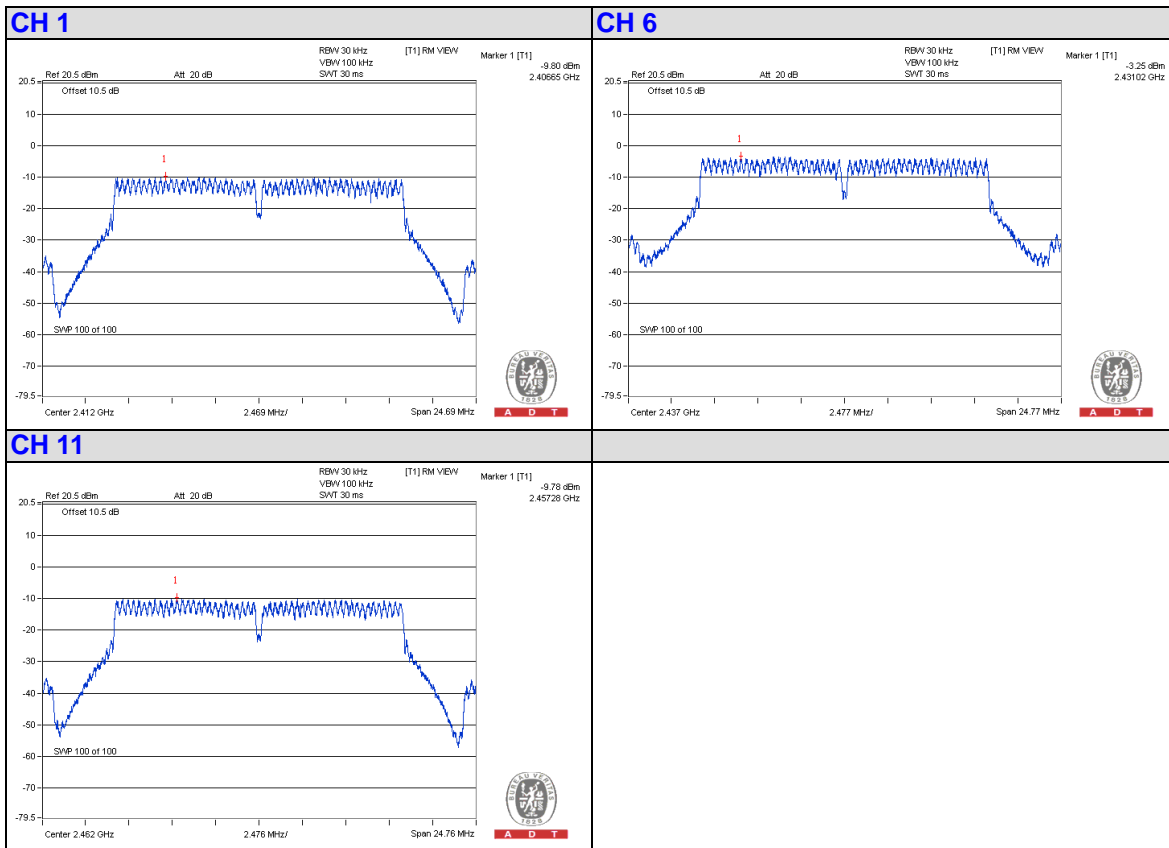
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FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11g
DUTY CYCLE	99%	DUTY FACTOR	0.04 dB

802.11g<Ant. 4>

Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-9.80	-0.98	-0.94	8	PASS
6	2437	-3.25	-0.33	-0.29	8	PASS
11	2462	-9.78	-0.98	-0.94	8	PASS

Note: Power Density + duty factor = Total Power Density





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FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (20MHz, MCS0)
DUTY CYCLE	99%	DUTY FACTOR	0.04 dB

802.11n(20MHz, MCS0)<Ant. 4>

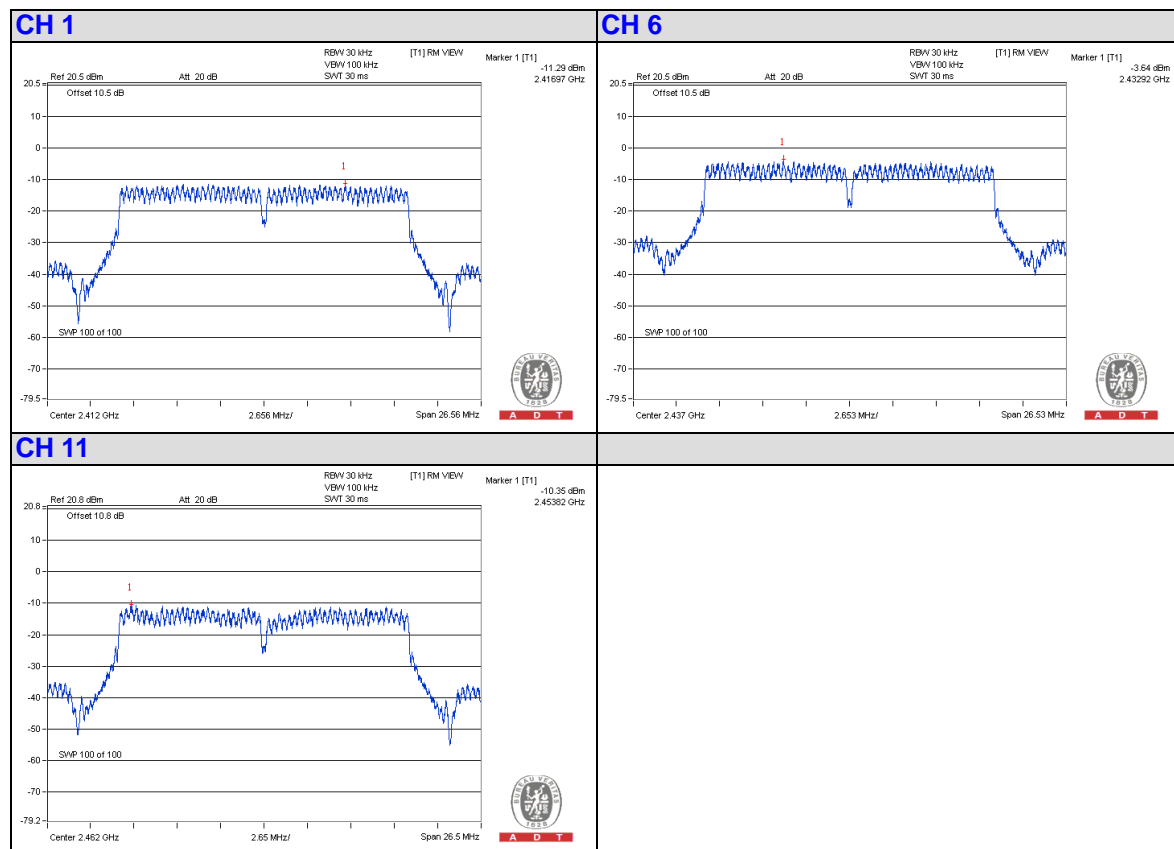
Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
1	2412	-11.29	-1.13	-1.09	8	PASS
6	2437	-3.64	-0.36	-0.32	8	PASS

Note: Power Density + duty factor = Total Power Density

802.11n(20MHz, MCS0)<Ant. 1>

Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
11	2462	-10.35	-1.04	-1.00	8	PASS

Note: Power Density + duty factor = Total Power Density





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FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (20MHz, MCS8)
DUTY CYCLE	98%	DUTY FACTOR	0.09 dB

802.11n(20MHz, MCS8)< Ant. 1 + Ant. 4 >

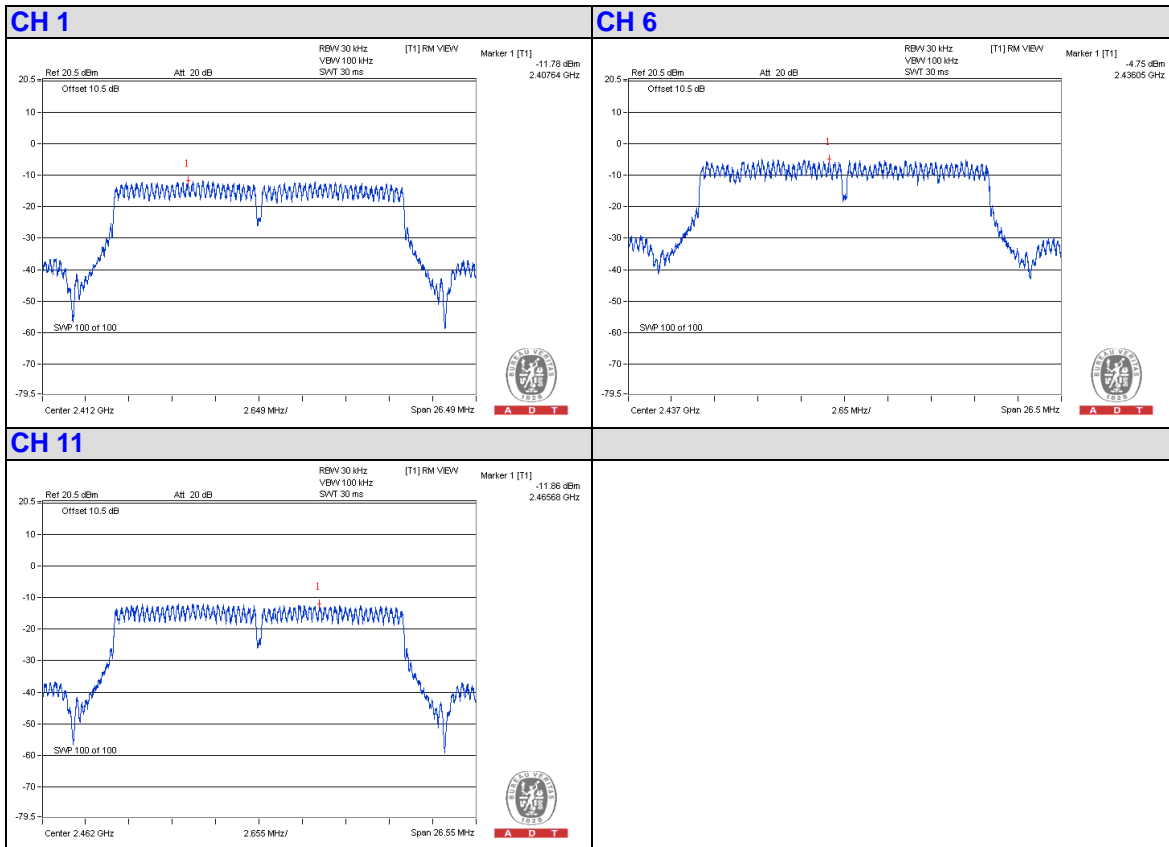
TX chain	Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
Ant. 4	1	2412	-11.78	-1.18	3.01	1.92	8	PASS
	6	2437	-4.75	-0.48	3.01	2.62	8	PASS
	11	2462	-11.86	-1.19	3.01	1.91	8	PASS
Ant. 1	1	2412	-12.41	-1.24	3.01	1.86	8	PASS
	6	2437	-3.64	-0.36	3.01	2.74	8	PASS
	11	2462	-12.26	-1.23	3.01	1.87	8	PASS

Note : Power Density + duty factor = Total Power Density



A D T

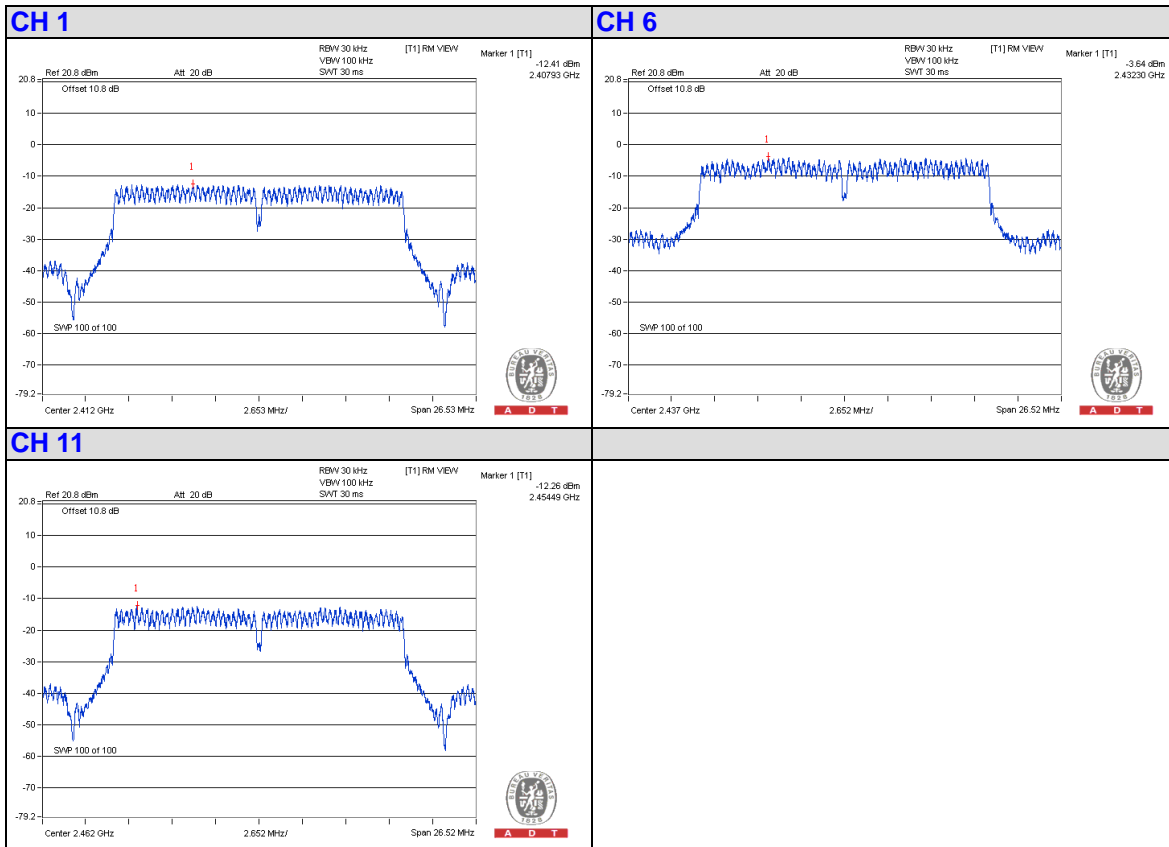
Ant. 4





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Ant. 1





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FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (20MHz, MCS16)
DUTY CYCLE	97.4%	DUTY FACTOR	0.11 dB

802.11n(20MHz, MCS16)< Ant. 1+ Ant. 2+ Ant. 4>

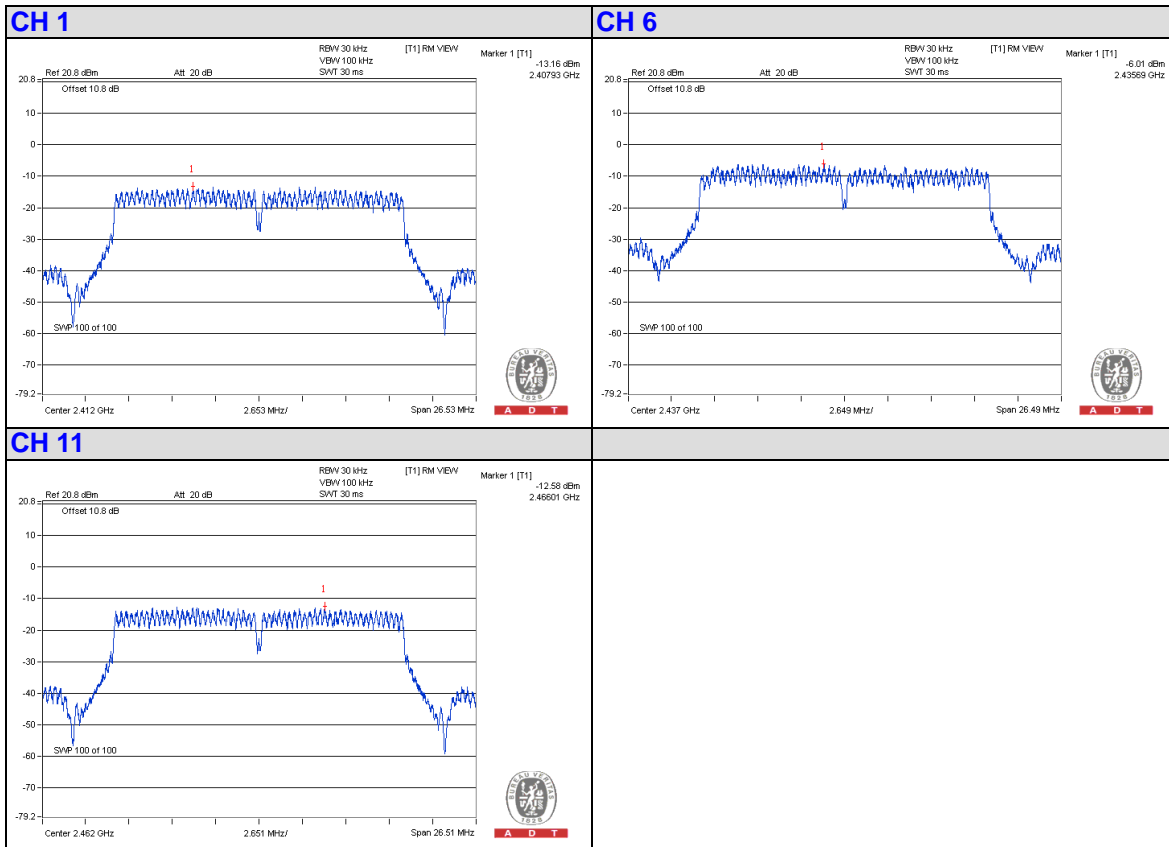
TX chain	Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
Ant. 4	1	2412	-13.16	-1.32	4.77	3.56	8	PASS
	6	2437	-6.01	-0.60	4.77	4.28	8	PASS
	11	2462	-12.58	-1.26	4.77	3.62	8	PASS
Ant. 2	1	2412	-12.80	-1.28	4.77	3.60	8	PASS
	6	2437	-4.55	-0.46	4.77	4.42	8	PASS
	11	2462	-11.16	-1.12	4.77	3.76	8	PASS
Ant. 1	1	2412	-14.25	-1.43	4.77	3.45	8	PASS
	6	2437	-6.64	-0.66	4.77	4.22	8	PASS
	11	2462	-12.98	-1.30	4.77	3.58	8	PASS

Note : Power Density + duty factor = Total Power Density



A D T

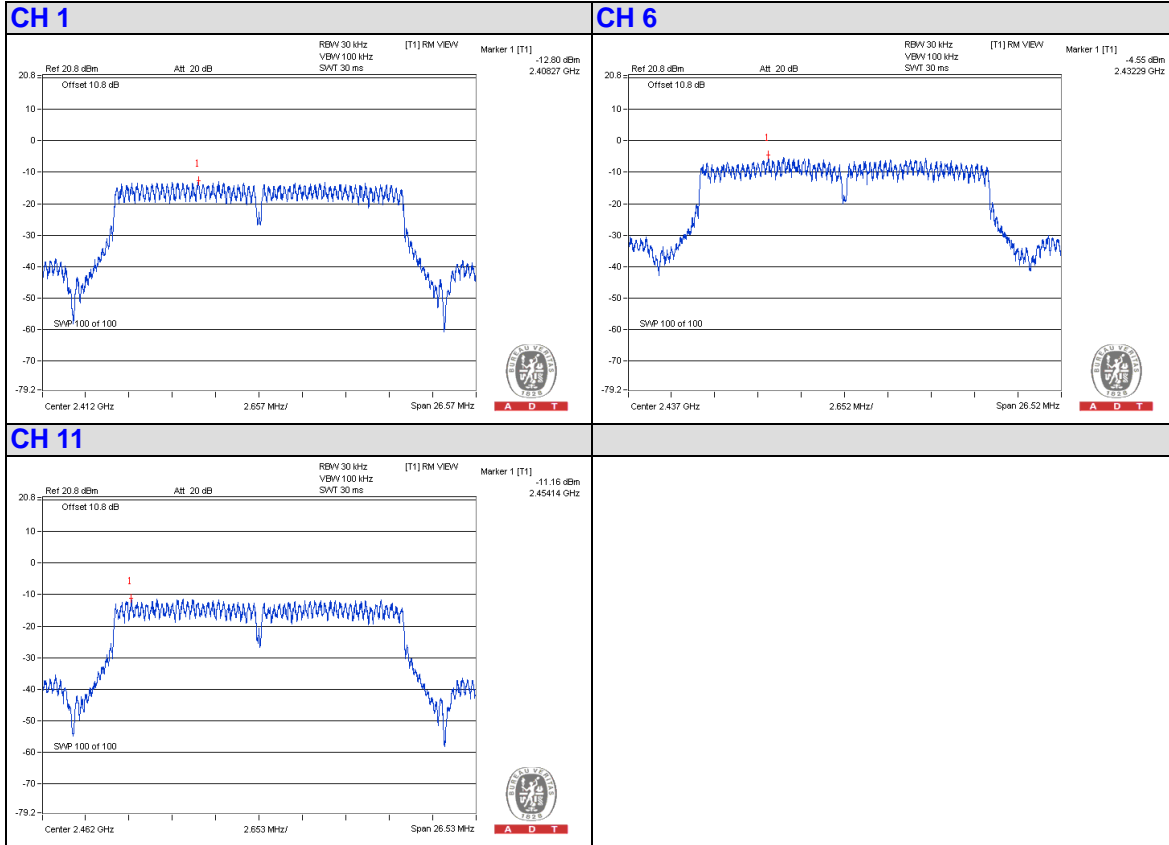
Ant. 4





A D T

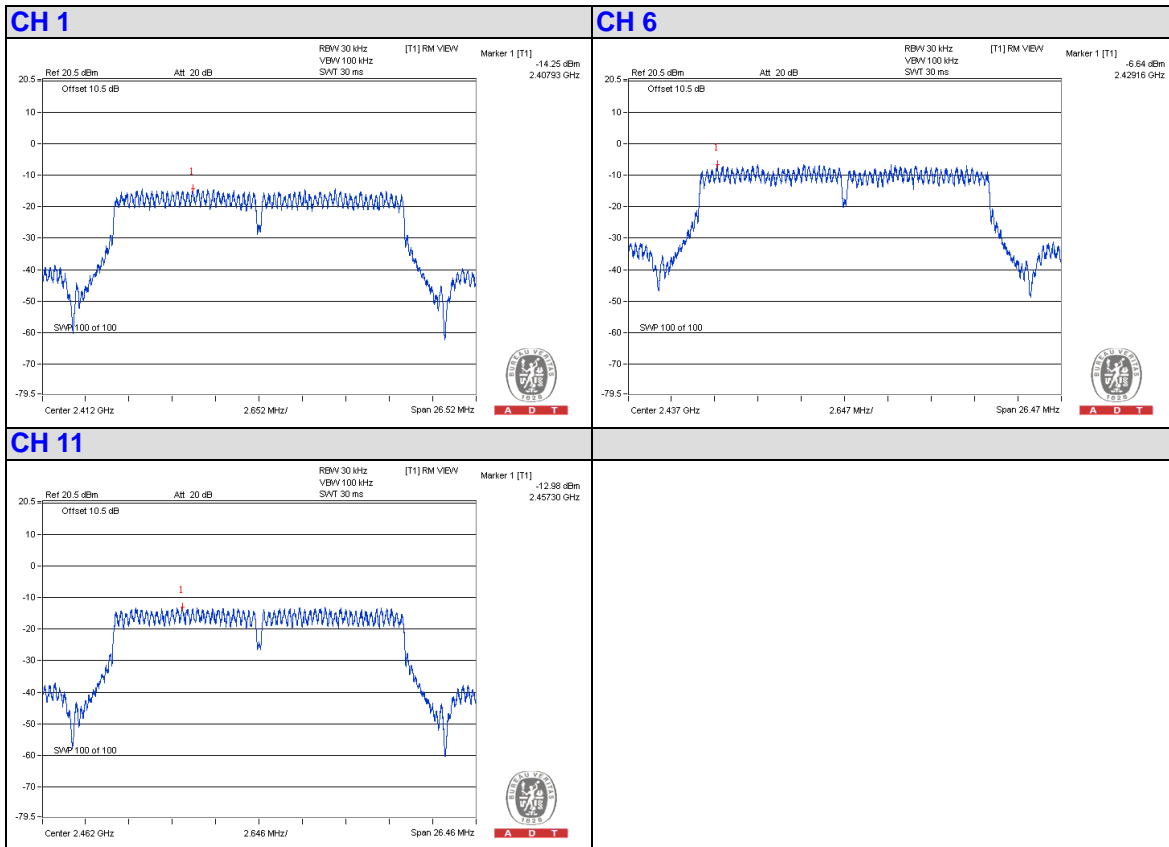
Ant. 2





A D T

Ant. 1





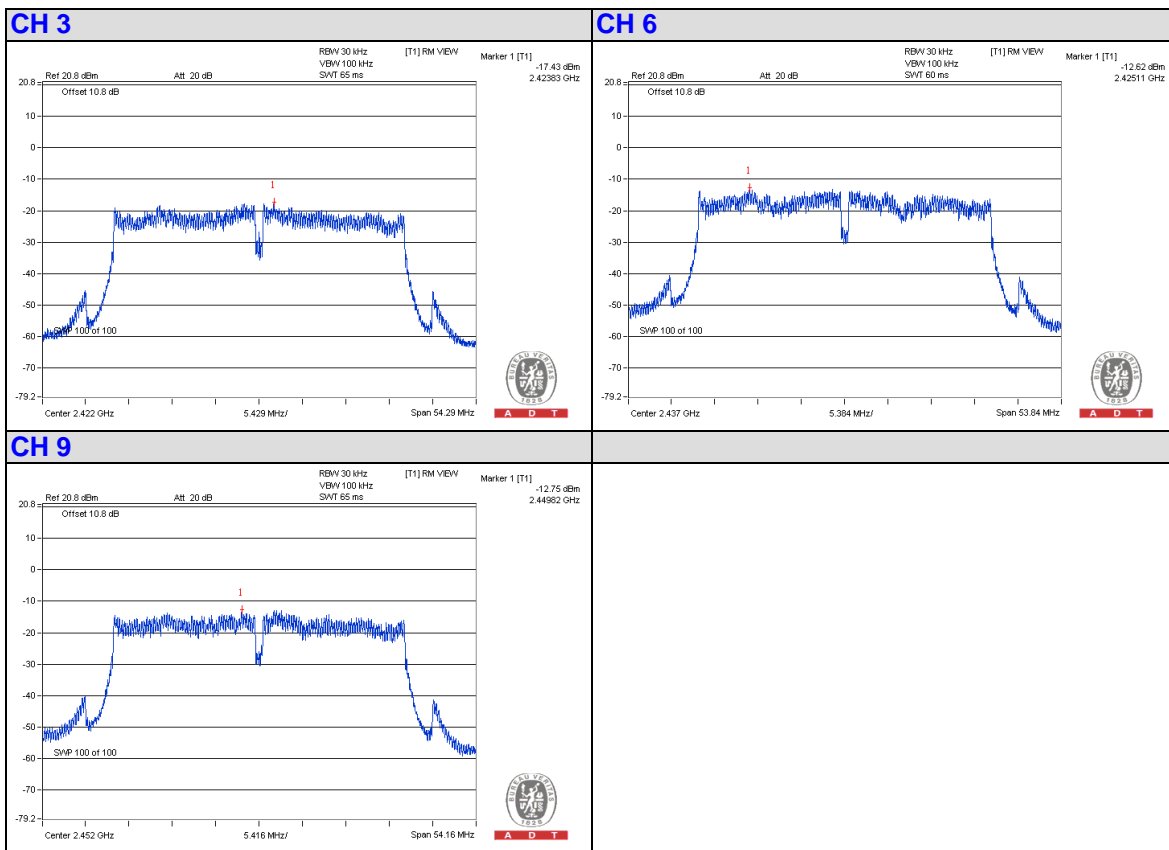
A D T

FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (40MHz, MCS0)
DUTY CYCLE	98.3%	DUTY FACTOR	0.07 dB

802.11n(40MHz, MCS0)<Ant. 1>

Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
3	2422	-17.43	-1.74	-1.67	8	PASS
6	2437	-12.62	-1.26	-1.19	8	PASS
9	2452	-12.75	-1.28	-1.21	8	PASS

Note: Power Density + duty factor = Total Power Density





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FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (40MHz, MCS8)
DUTY CYCLE	96.5%	DUTY FACTOR	0.15 dB

802.11n(40MHz, MCS8)< Ant. 1+ Ant. 4>

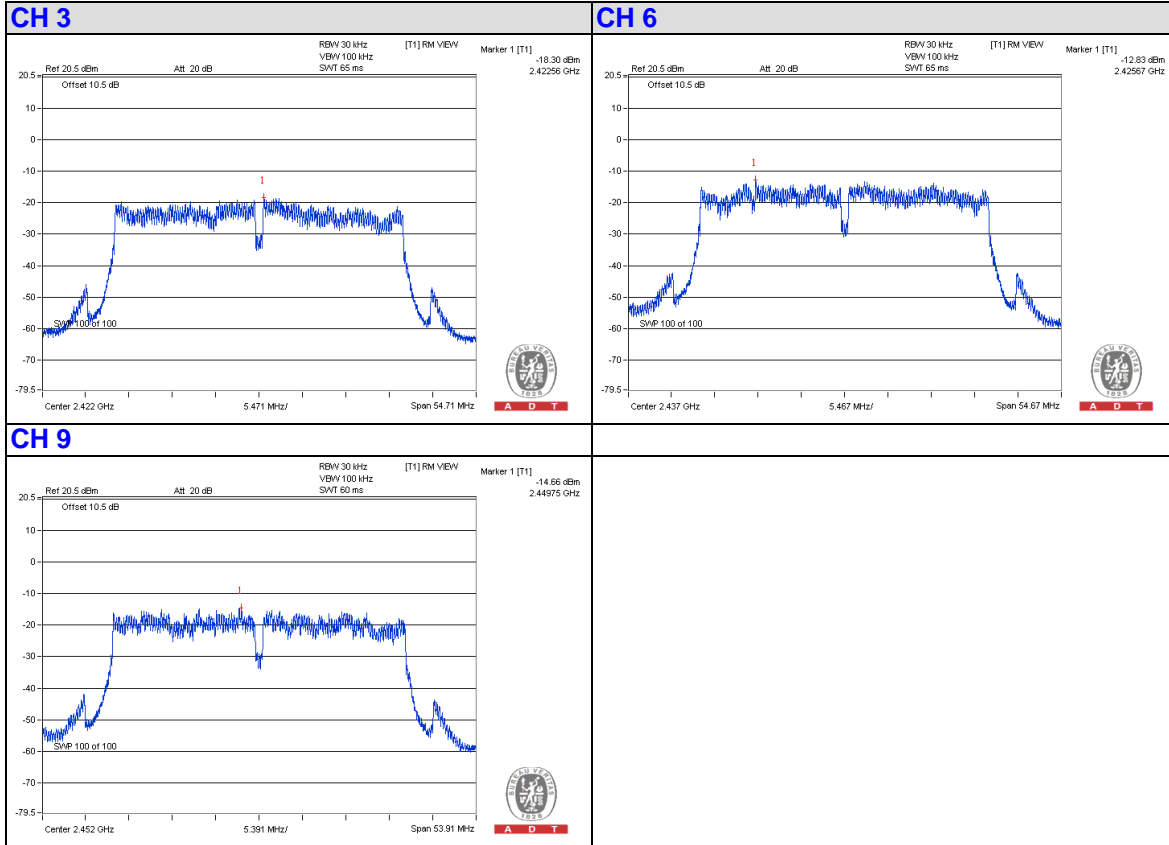
TX chain	Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
Ant. 4	3	2422	-18.30	-1.83	3.01	1.33	8	PASS
	6	2437	-12.83	-1.28	3.01	1.88	8	PASS
	9	2452	-14.66	-1.47	3.01	1.69	8	PASS
Ant. 1	3	2422	-17.19	-1.72	3.01	1.44	8	PASS
	6	2437	-14.31	-1.43	3.01	1.73	8	PASS
	9	2452	-15.05	-1.51	3.01	1.65	8	PASS

Note : Power Density + duty factor = Total Power Density



A D T

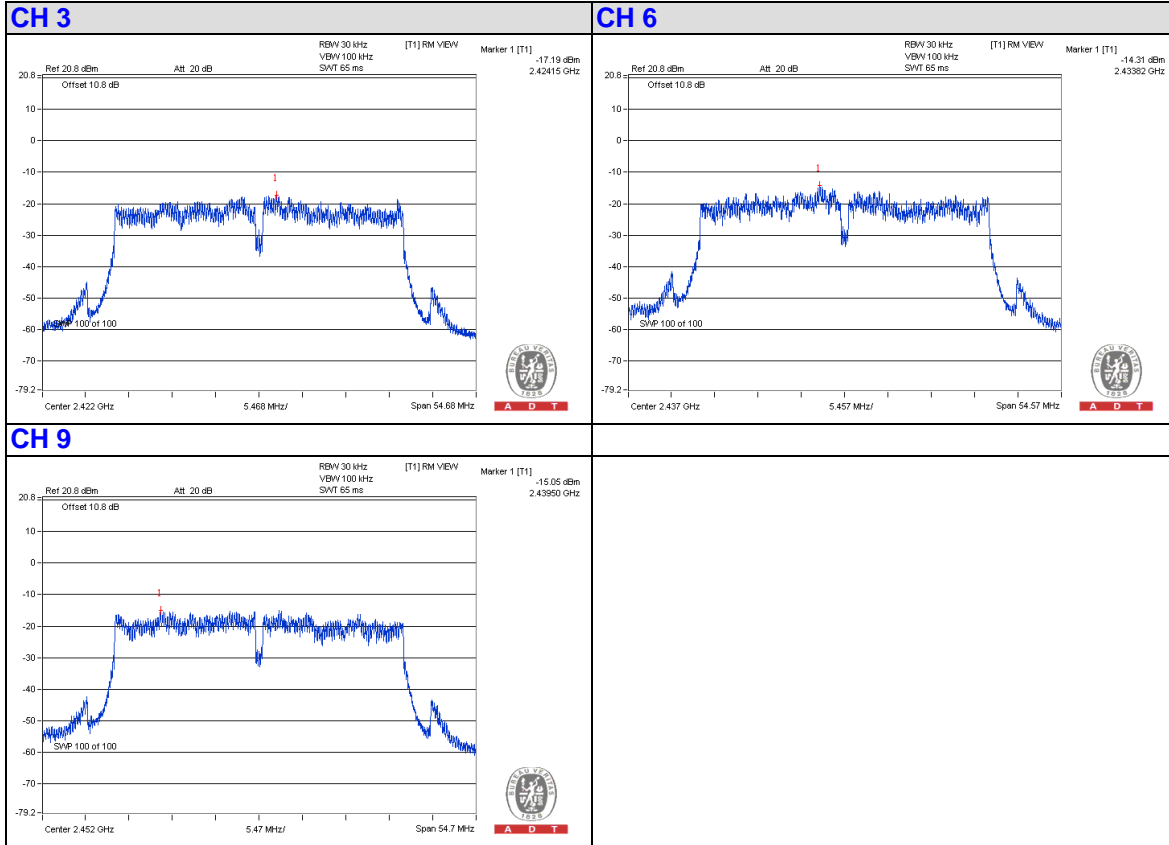
Ant.4





A D T

Ant.1





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FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (40MHz, MCS16)
DUTY CYCLE	95.1%	DUTY FACTOR	0.22 dB

802.11n(40MHz, MCS16)< Ant. 1+ Ant. 2+ Ant. 4>

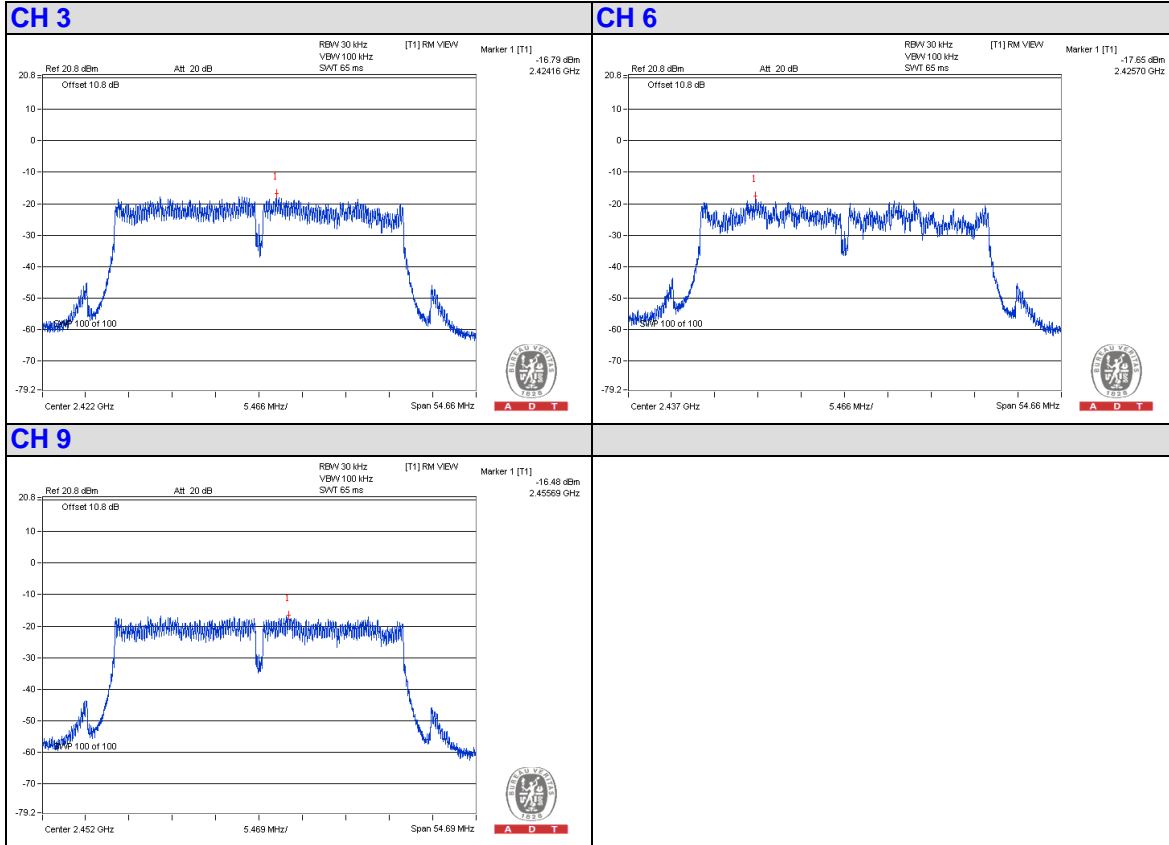
TX chain	Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
Ant. 4	3	2422	-16.79	-1.68	4.77	3.31	8	PASS
	6	2437	-17.65	-1.77	4.77	3.22	8	PASS
	9	2452	-16.48	-1.65	4.77	3.34	8	PASS
Ant. 2	3	2422	-22.50	-2.25	4.77	2.74	8	PASS
	6	2437	-17.57	-1.76	4.77	3.23	8	PASS
	9	2452	-16.09	-1.61	4.77	3.38	8	PASS
Ant. 1	3	2422	-20.39	-2.04	4.77	2.95	8	PASS
	6	2437	-14.49	-1.45	4.77	3.54	8	PASS
	9	2452	-16.77	-1.68	4.77	3.31	8	PASS

Note : Power Density + duty factor = Total Power Density



A D T

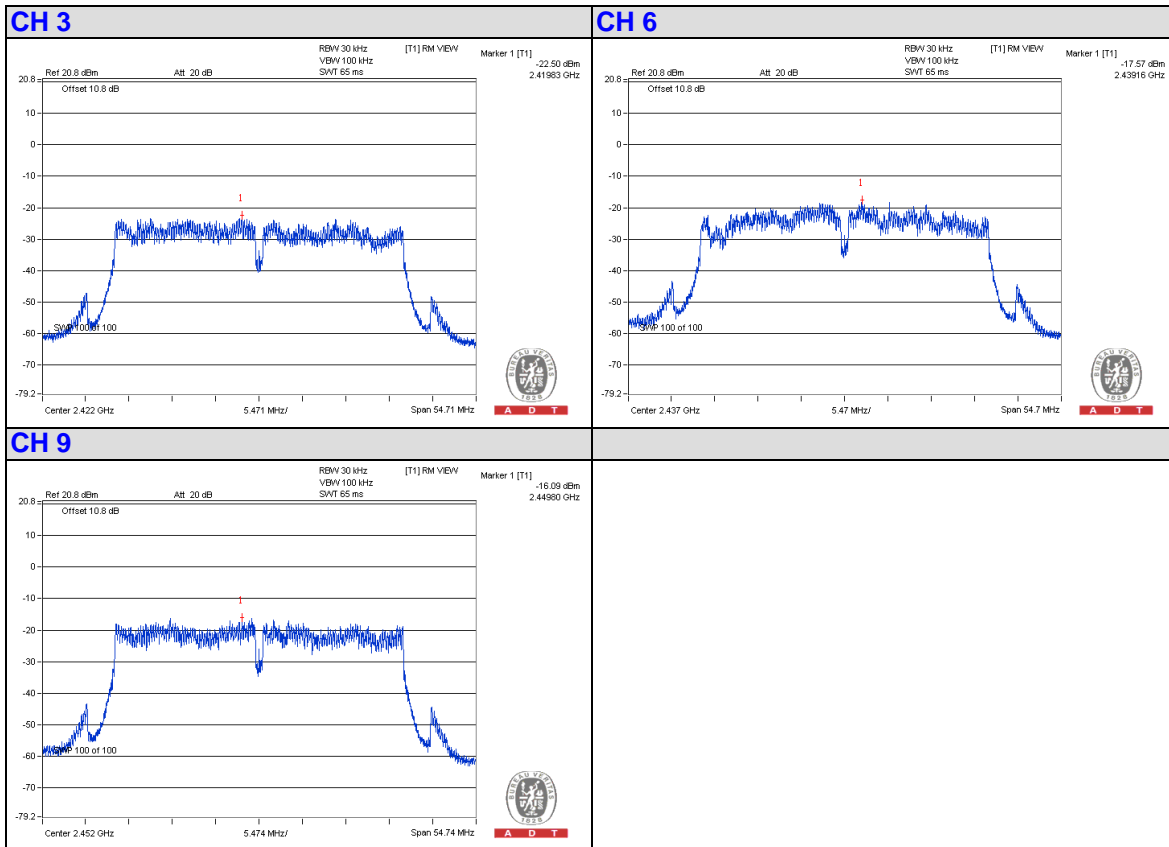
Ant. 4





A D T

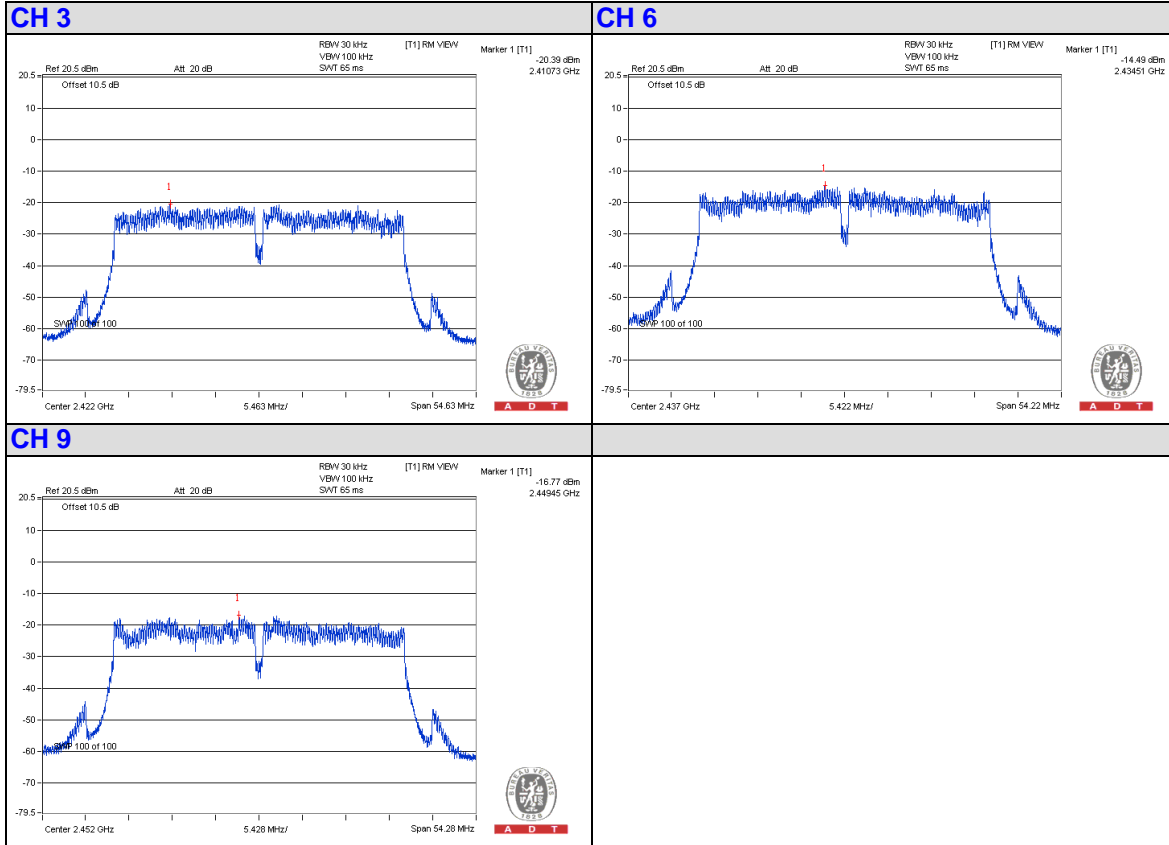
Ant. 2





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Ant. 1



4.4 6dB SPECTRUM BANDWIDTH MEASUREMENT

4.4.1 LIMITS

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

4.4.2 MEASURING INSTRUMENTS AND SETTING

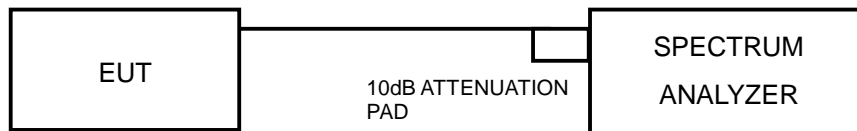
Please refer to section 6 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RB	100kHz
VB	300kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto couple

4.4.3 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. Test was performed in accordance with KDB 558074 Guidance for Performing Compliance Measurements on Digital Transmission Systems(DTS) Operating under §15.247 section 7.1 DTS channel bandwidth
3. Multiple antennas system was performed in accordance with KDB 662911 Emission Testing of Transmitters with Multiple Outputs in the Same Band
4. Measured the spectrum width with power higher than 6d account by this measurement.

4.4.4 TEST SETUP LAYOUT



4.4.5 TEST DEVIATION

There is no deviation with the original standard.

4.4.6 EUT OPERATING DURING TEST

The EUT was programmed to be in continuously transmitting mode.



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4.4.7 TEST RESULT OF 6dB SPECTRUM BANDWIDTH

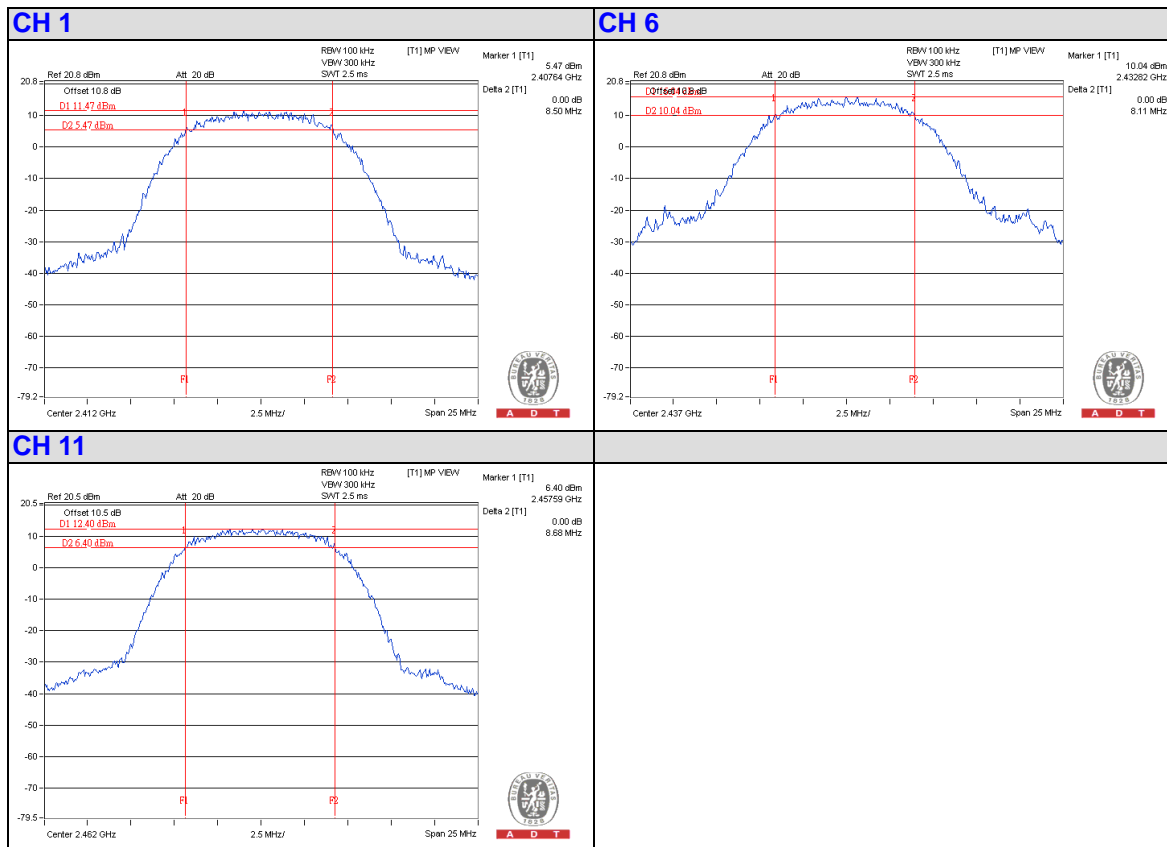
FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11b

802.11b<Ant. 1>

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	8.50	0.5	PASS
6	2437	8.11	0.5	PASS

802.11b<Ant. 4>

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
11	2462	8.68	0.5	PASS



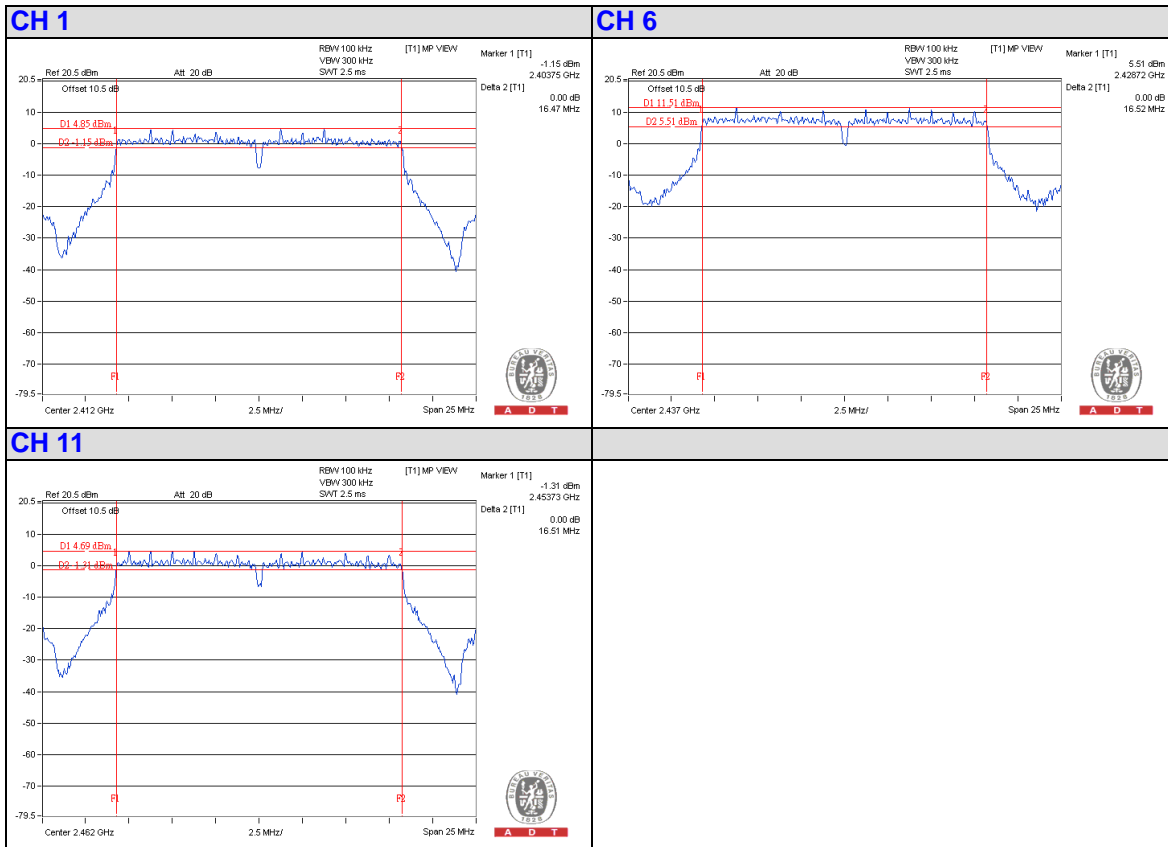


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FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11g

802.11g<Ant. 4>

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	16.47	0.5	PASS
6	2437	16.52	0.5	PASS
11	2462	16.51	0.5	PASS





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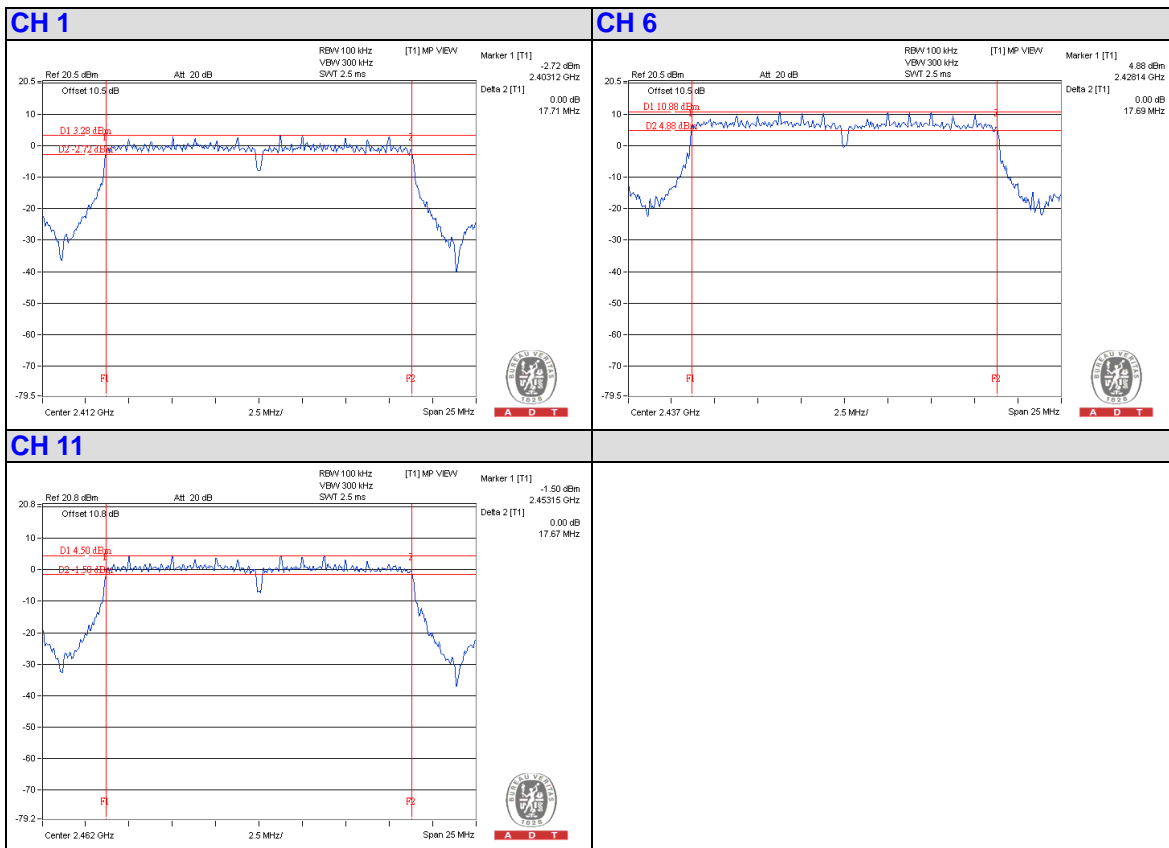
FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (20MHz, MCS0)

802.11n(20MHz, MCS0)<Ant. 4>

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
1	2412	17.71	0.5	PASS
6	2437	17.69	0.5	PASS

802.11n(20MHz, MCS0)<Ant. 1>

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
11	2462	17.67	0.5	PASS





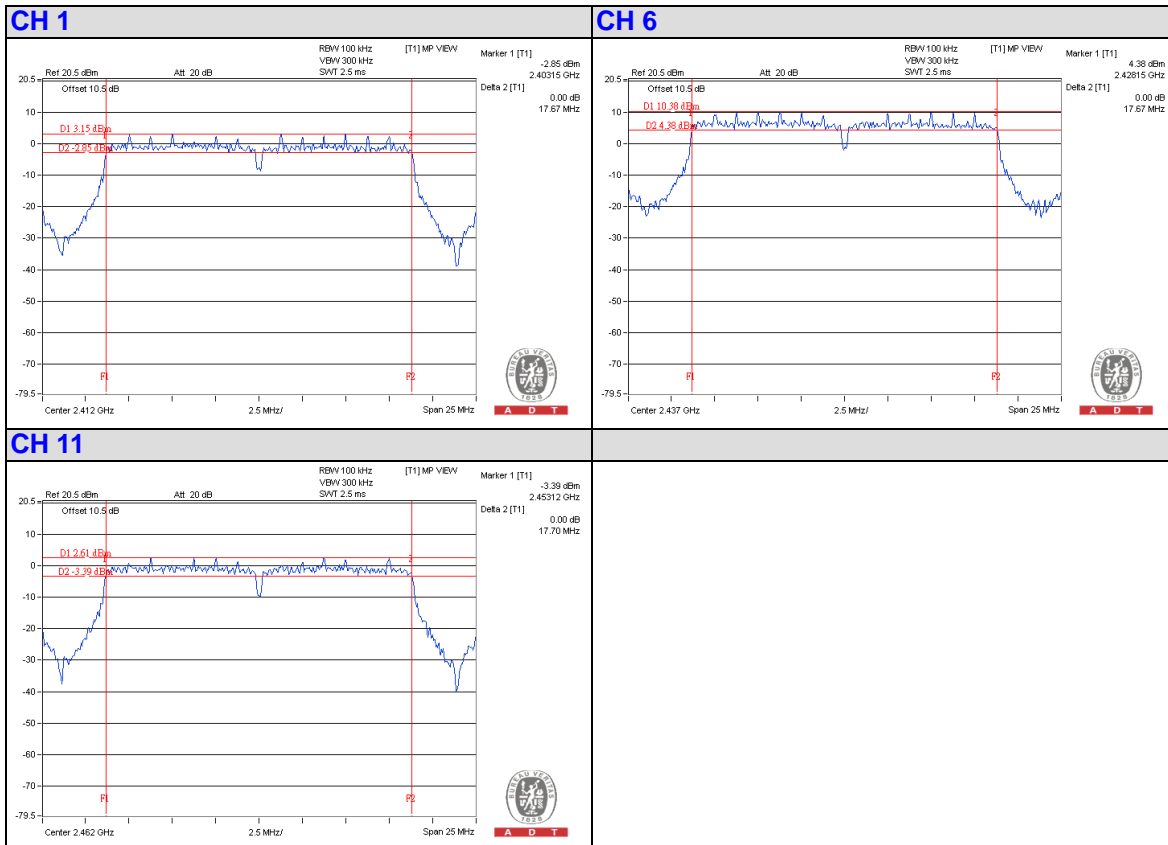
A D T

FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (20MHz, MCS8)

802.11n(20MHz, MCS8)< Ant. 1+ Ant. 4>

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		Ant. 4	Ant. 1		
1	2412	17.67	17.69	0.5	PASS
6	2437	17.67	17.68	0.5	PASS
11	2462	17.70	17.68	0.5	PASS

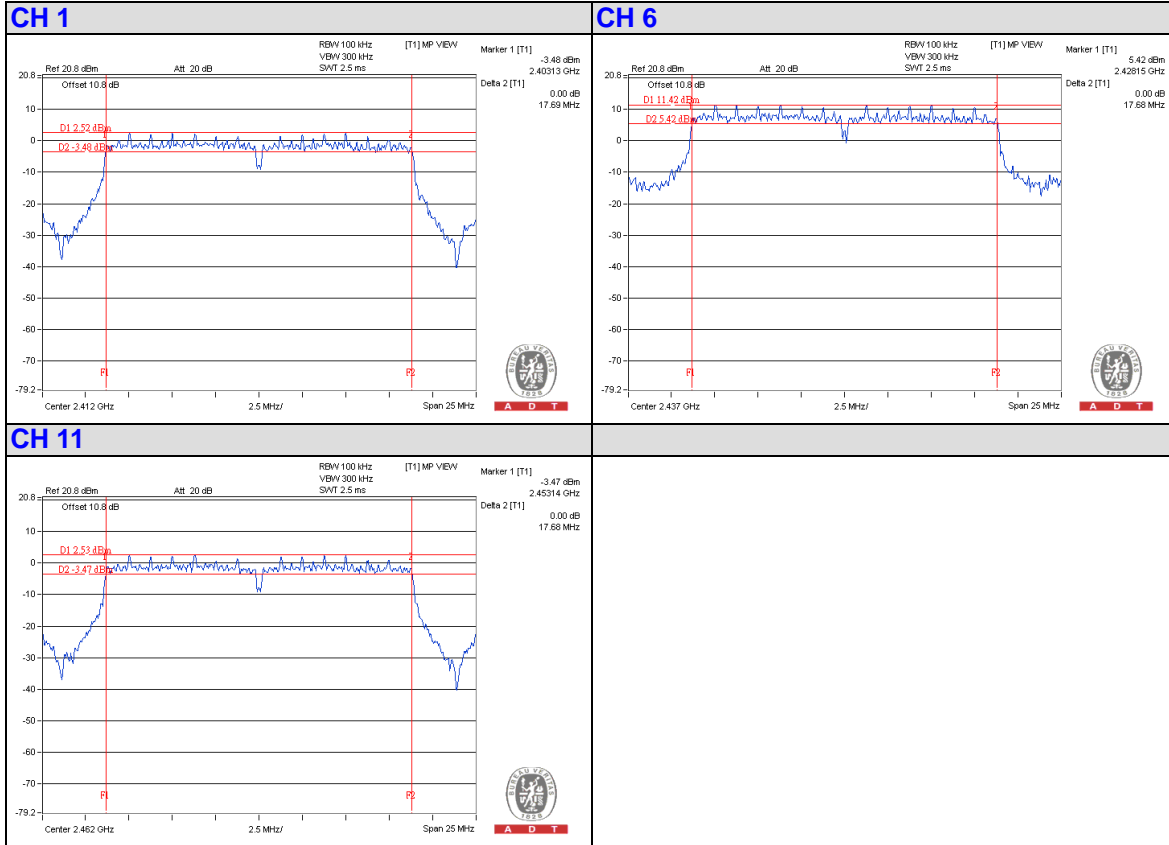
Ant.4





A D T

Ant.1





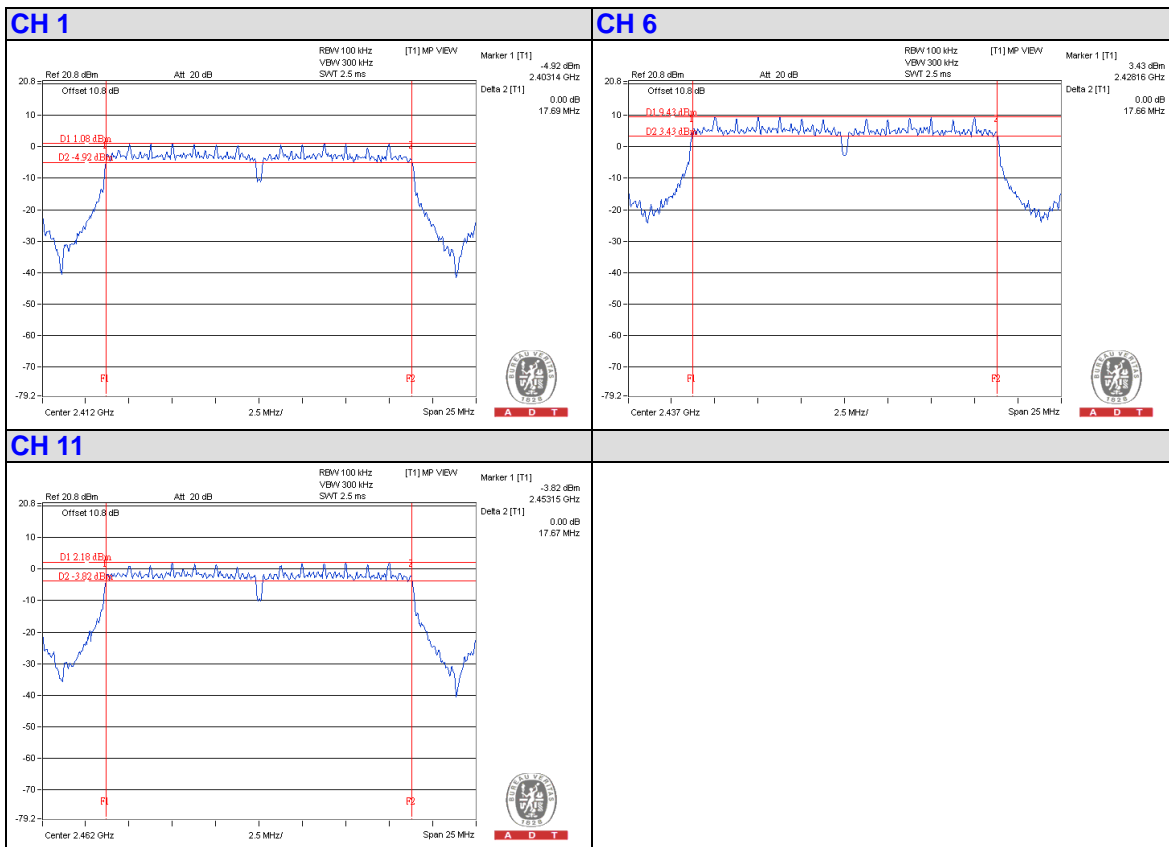
A D T

FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (20MHz, MCS16)

802.11n(20MHz, MCS16)< Ant. 1+ Ant. 2+ Ant. 4>

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		Ant. 4	Ant. 2	Ant. 1		
1	2412	17.69	17.71	17.68	0.5	PASS
6	2437	17.66	17.68	17.65	0.5	PASS
11	2462	17.67	17.69	17.64	0.5	PASS

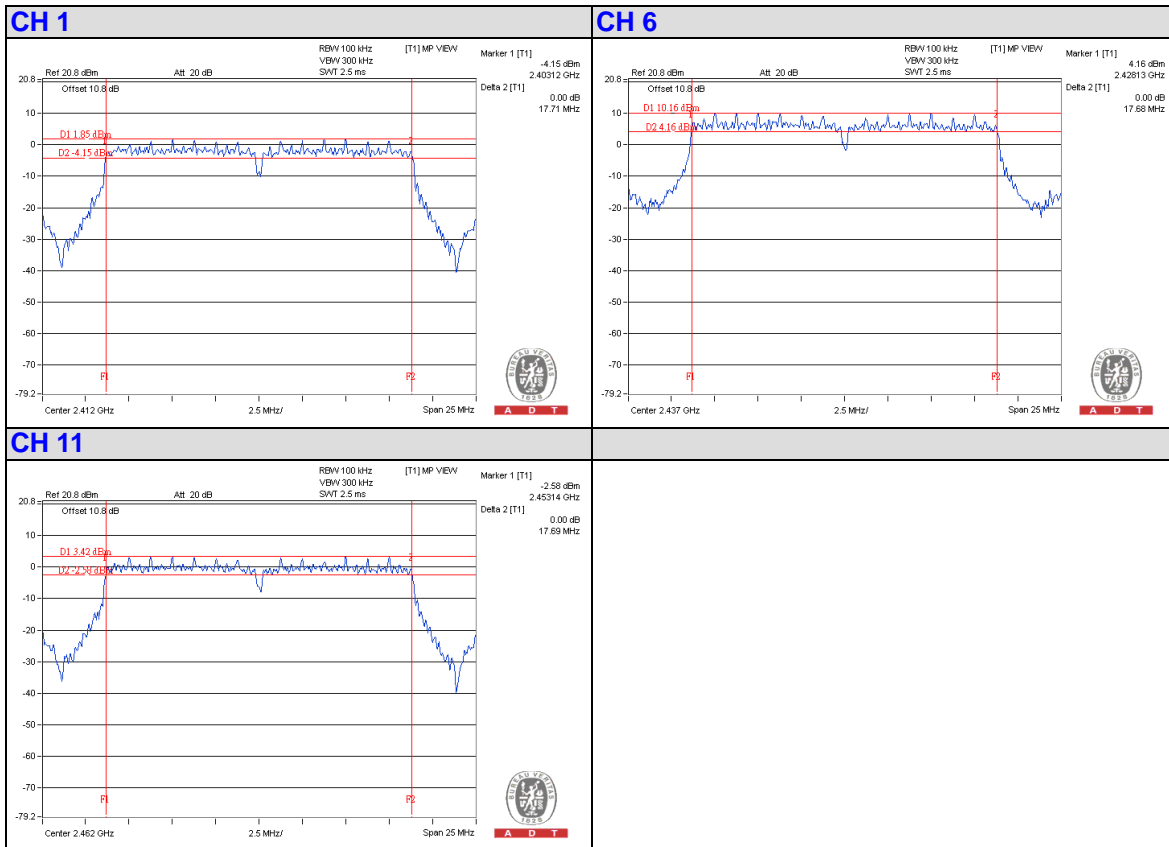
Ant. 4





A D T

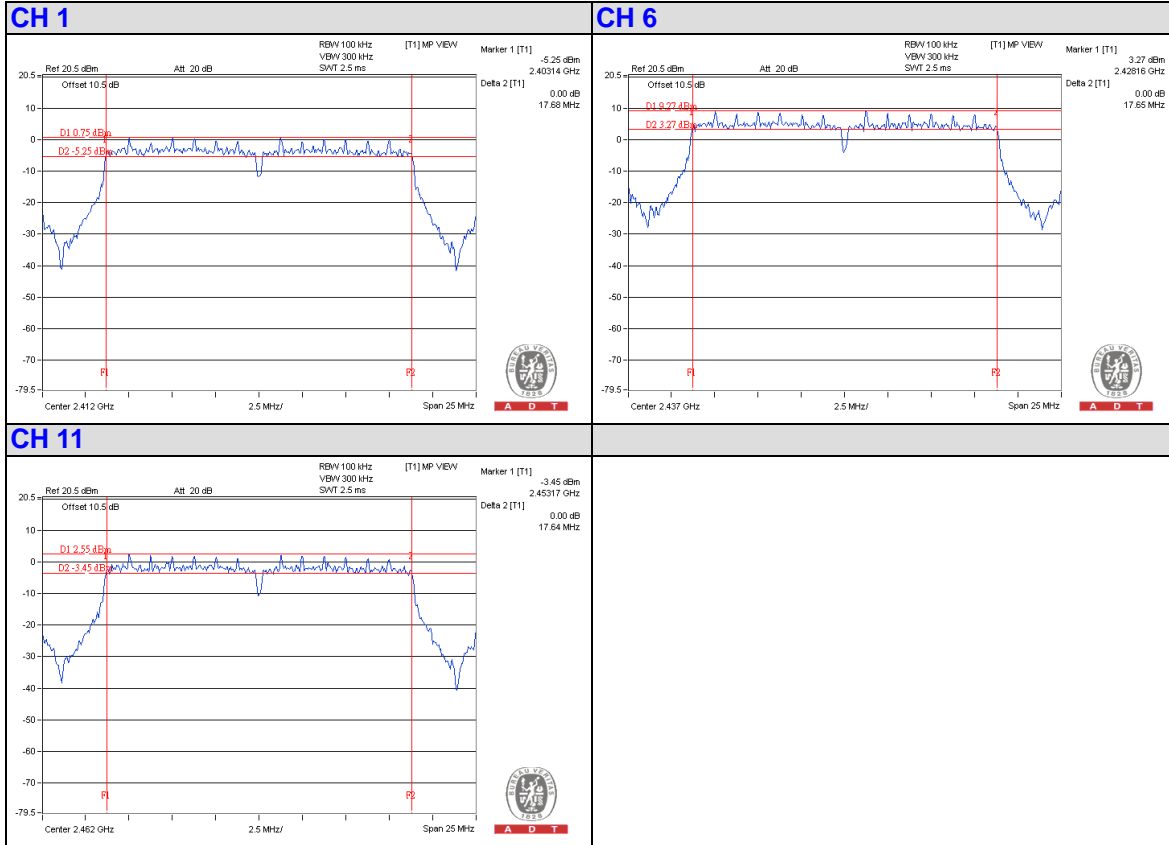
Ant. 2





A D T

Ant. 1



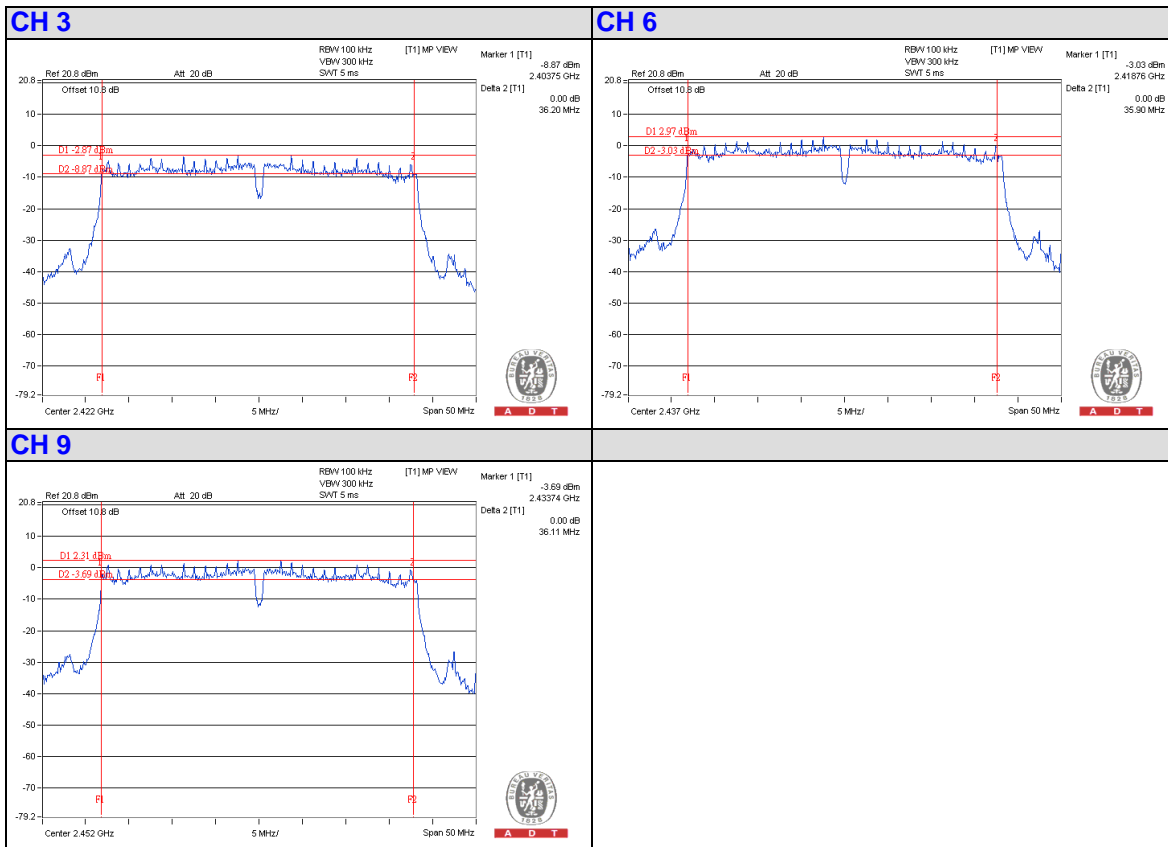


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FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (40MHz, MCS0)

802.11n(40MHz, MCS0)< Ant. 1>

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
3	2422	36.20	0.5	PASS
6	2437	35.90	0.5	PASS
9	2452	36.11	0.5	PASS





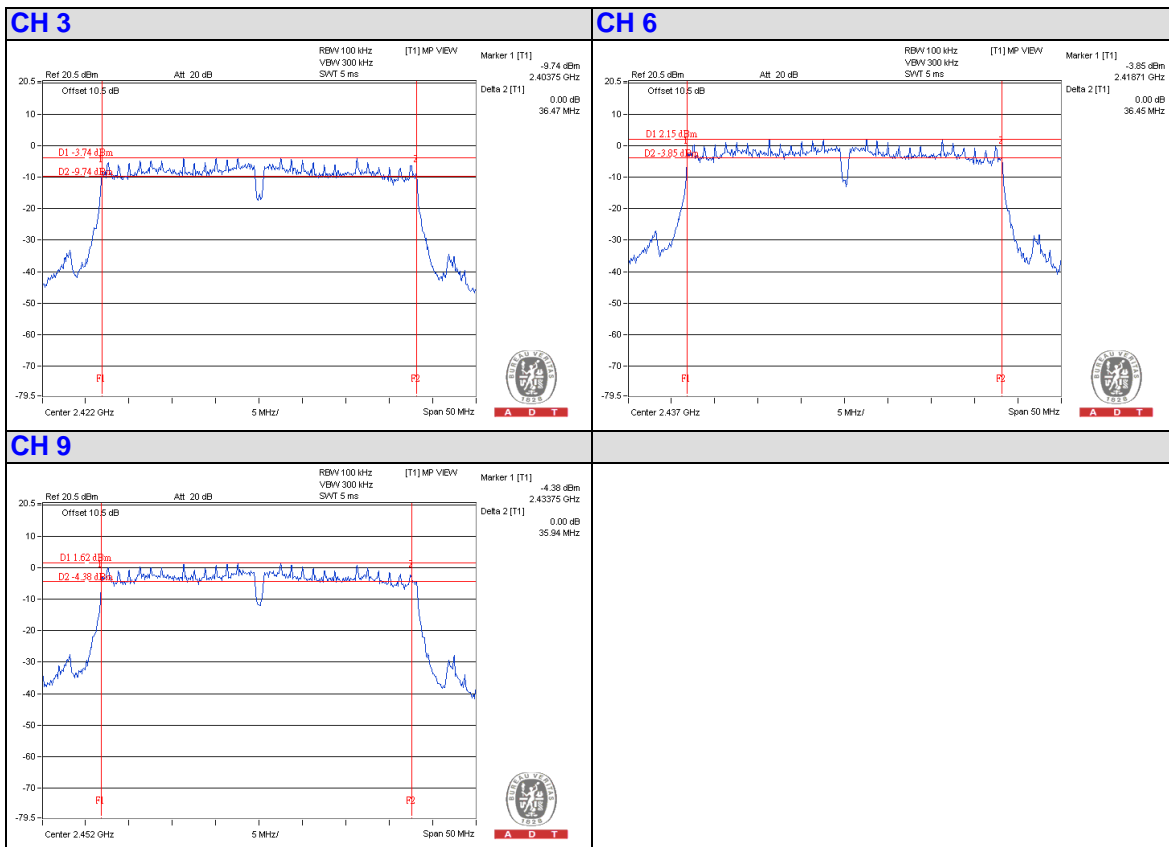
A D T

FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (40MHz, MCS8)

802.11n(40MHz, MCS8)< Ant. 1+ Ant. 4 >

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		Ant. 4	Ant. 1		
3	2422	36.47	36.46	0.5	PASS
6	2437	36.45	36.38	0.5	PASS
9	2452	35.94	36.47	0.5	PASS

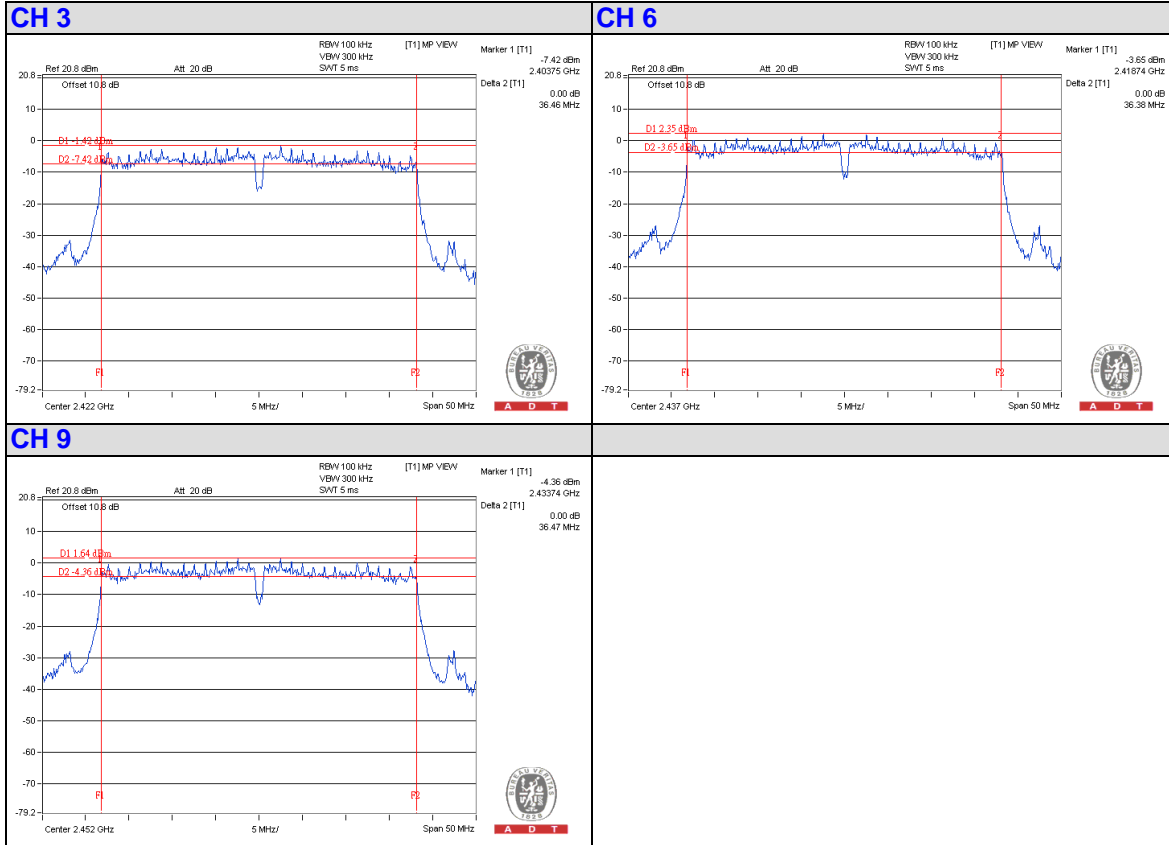
Ant.4





A D T

Ant.1





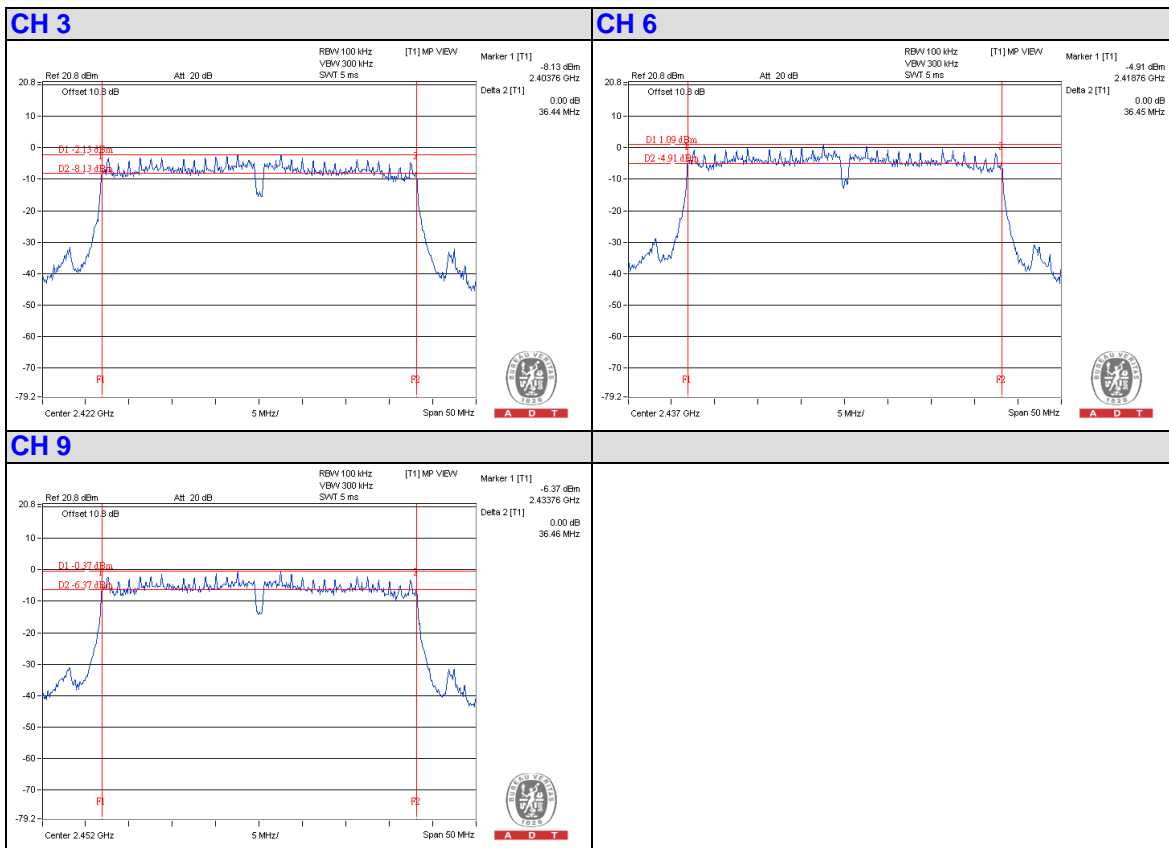
A D T

FINAL TEST DATE	May 27, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	James Chan	CONFIGURATIONS	802.11n (40MHz, MCS16)

802.11n(40MHz, MCS16)< Ant. 1+ Ant. 2+ Ant. 4>

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		Ant. 4	Ant. 2	Ant. 1		
3	2422	36.44	36.48	36.42	0.5	PASS
6	2437	36.45	36.47	36.15	0.5	PASS
9	2452	36.46	36.49	36.19	0.5	PASS

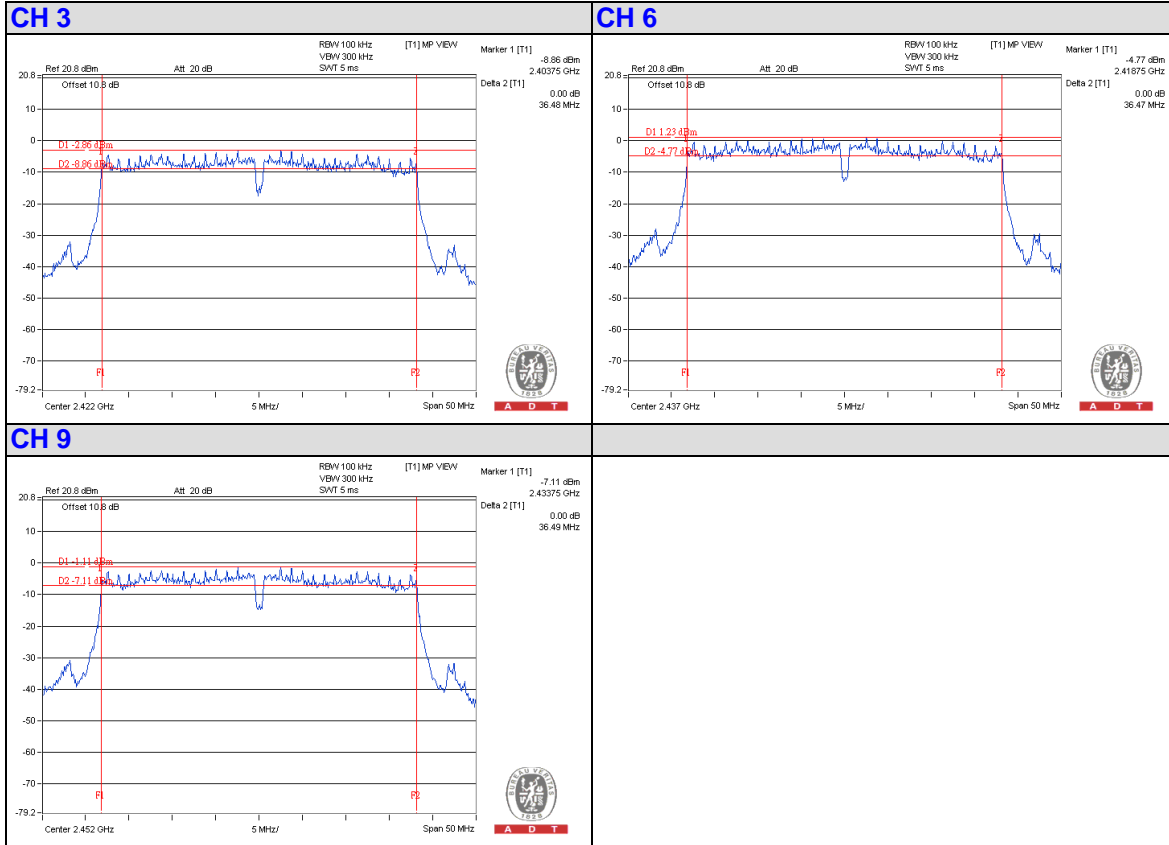
Ant. 4





A D T

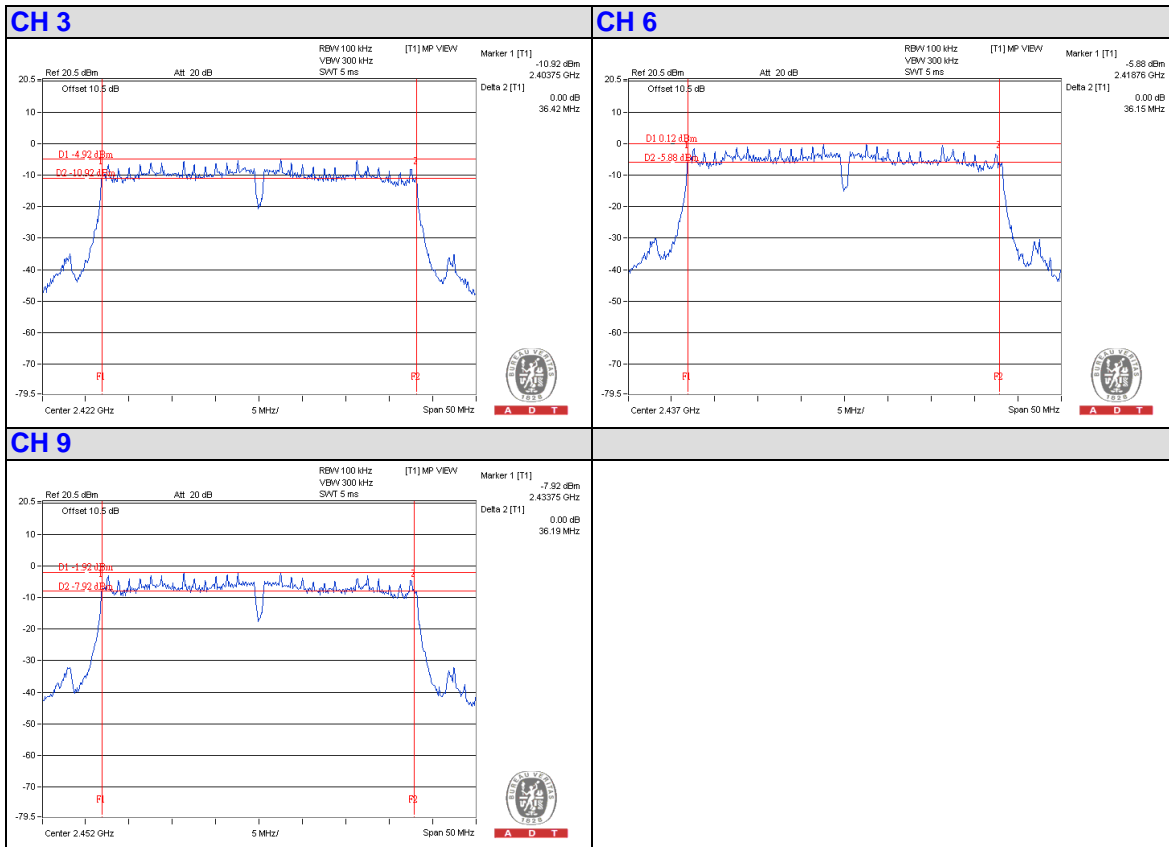
Ant. 2





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Ant. 1





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4.5 RADIATED EMISSIONS MEASUREMENT

4.5.1 LIMITS

30dBc 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..

Frequency Range (MHz)	Field Strength (microvolts/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

4.5.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 6 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Analyzer	Setting
Attenuation	Auto
Start Frequency	1GHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100kHz / 300kHz 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~1GHz / RB 120kHz for QP

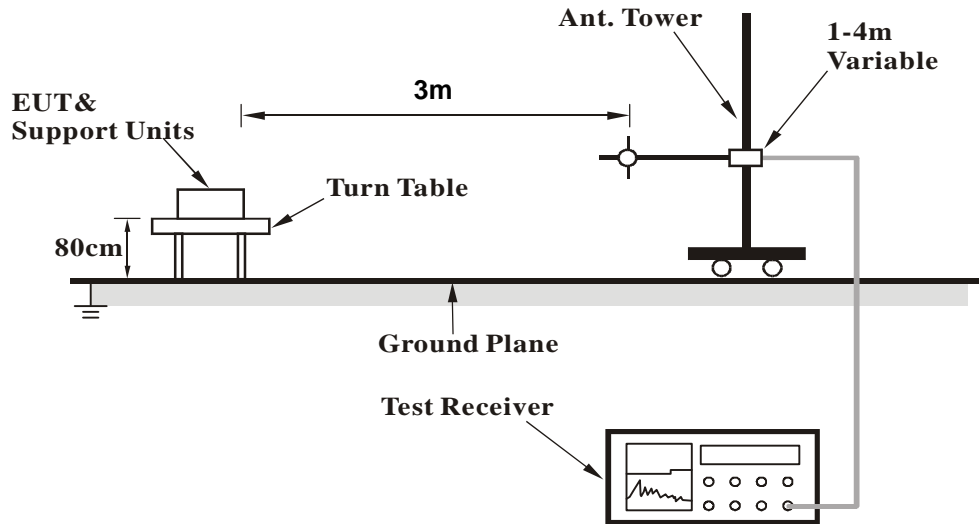


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4.5.3 TEST PROCEDURES

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 m to 4 m) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
8. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak 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.
9. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

4.5.4 TEST SETUP LAYOUT



4.5.5 TEST DEVIATION

There is no deviation with the original standard.

4.5.6 EUT OPERATING DURING TEST

The EUT was programmed to be in continuously transmitting mode.



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4.5.7 TEST RESULT OF RADIATED EMISSIONS (9kHz~30MHz)

FREQUENCY RANGE	9kHz~30MHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	68 %
TEST ENGINEER	Andy Ho	CONFIGURATIONS	CTX
FINAL TEST DATE	May 24, 2013		

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.



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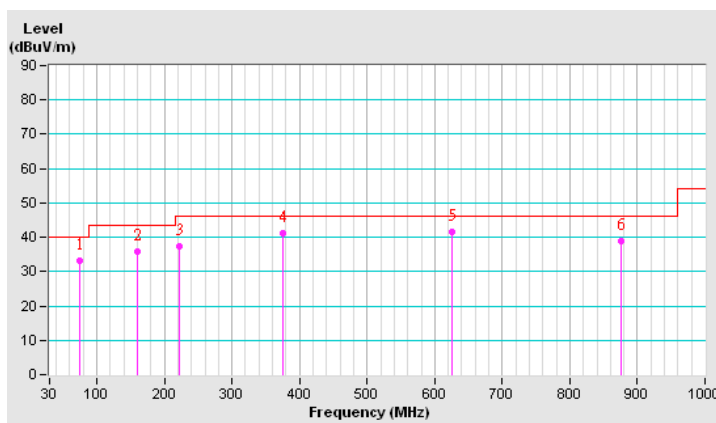
4.5.8 TEST RESULT OF RADIATED EMISSIONS (30MHz~1GHz)

FREQUENCY RANGE	30MHz~1GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	68 %
TEST ENGINEER	Andy Ho	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 6 / Ant.1 + Ant.2 + Ant.4
FINAL TEST DATE	May 24, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	74.33	33.2 QP	40.0	-6.8	1.00 H	303	49.93	-16.77
2	160.08	35.9 QP	43.5	-7.6	2.00 H	280	49.28	-13.37
3	221.91	37.4 QP	46.0	-8.6	1.50 H	276	53.28	-15.88
4	374.98	41.1 QP	46.0	-4.9	1.00 H	53	51.52	-10.39
5	625.00	41.5 QP	46.0	-4.5	1.50 H	117	46.34	-4.83
6	875.02	39.0 QP	46.0	-7.1	1.00 H	137	39.83	-0.88

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





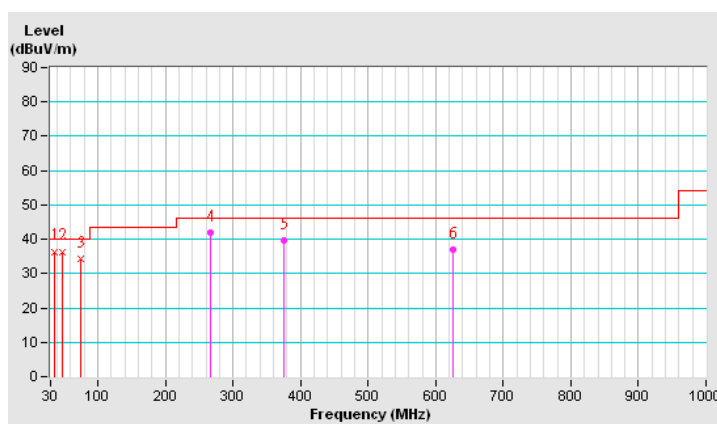
A D T

FREQUENCY RANGE	30MHz~1GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	68 %
TEST ENGINEER	Andy Ho	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 6 / Ant.1 + Ant.2 + Ant.4
FINAL TEST DATE	May 24, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	34.96	36.4 QP	40.0	-3.6	1.06 V	0	50.41	-14.01
2	47.84	36.4 QP	40.0	-3.6	1.00 V	322	49.96	-13.55
3	74.57	34.4 QP	40.0	-5.6	2.00 V	0	51.30	-16.87
4	267.46	41.8 QP	46.0	-4.2	1.00 V	8	55.42	-13.59
5	374.98	39.6 QP	46.0	-6.4	1.50 V	360	50.02	-10.39
6	625.00	37.0 QP	46.0	-9.0	1.00 V	106	41.83	-4.83

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value



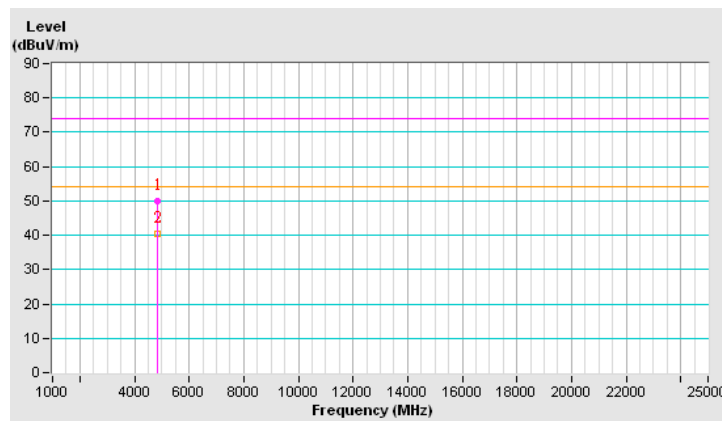
4.5.9 TEST RESULT OF RADIATED EMISSIONS (1GHz~10th HARMONIC)

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11b CH 1 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	49.9 PK	74.0	-24.1	1.36 H	55	11.01	38.89
2	4824.00	40.5 AV	54.0	-13.5	1.36 H	55	1.61	38.89

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





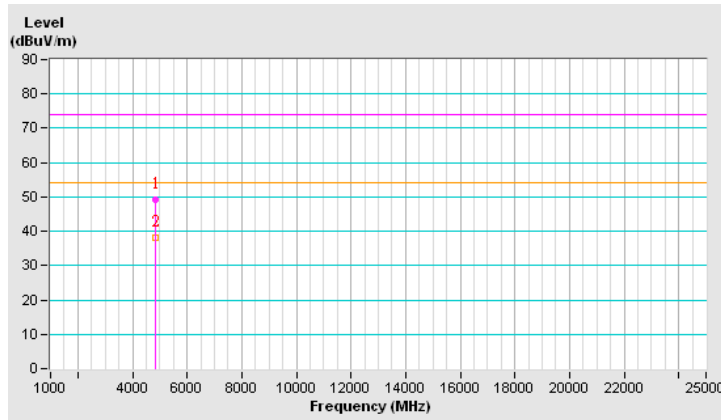
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11b CH 1 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	49.1 PK	74.0	-24.9	1.00 V	89	10.21	38.89
2	4824.00	38.2 AV	54.0	-15.8	1.00 V	89	-0.69	38.89

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





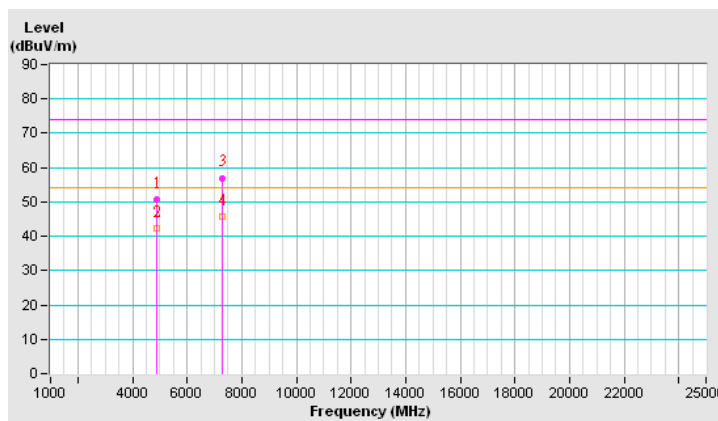
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11b CH 6 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.8 PK	74.0	-23.2	1.29 H	60	11.76	39.04
2	4874.00	42.4 AV	54.0	-11.6	1.29 H	60	3.36	39.04
3	7311.00	57.0 PK	74.0	-17.0	1.00 H	94	11.21	45.79
4	7311.00	45.6 AV	54.0	-8.4	1.00 H	94	-0.19	45.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





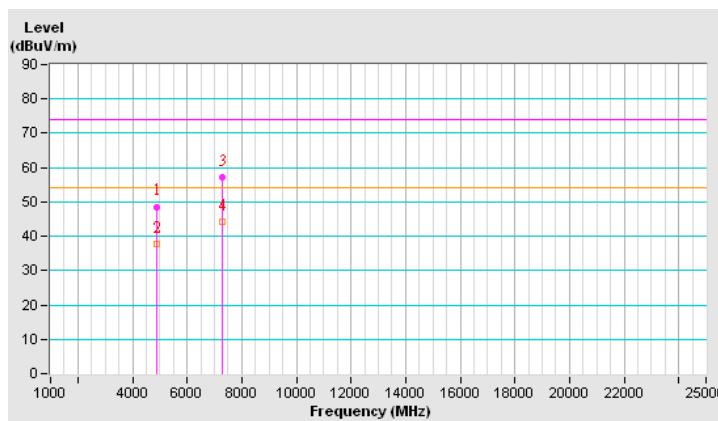
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FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11b CH 6 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	48.6 PK	74.0	-25.4	1.00 V	102	9.56	39.04
2	4874.00	37.8 AV	54.0	-16.2	1.00 V	102	-1.24	39.04
3	7311.00	57.1 PK	74.0	-16.9	1.00 V	245	11.31	45.79
4	7311.00	44.2 AV	54.0	-9.8	1.00 V	245	-1.59	45.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





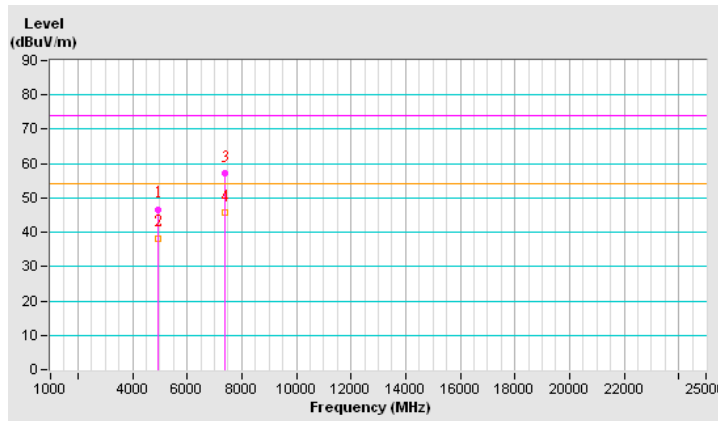
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11b CH 11 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	46.7 PK	74.0	-27.3	1.25 H	65	7.54	39.16
2	4924.00	38.3 AV	54.0	-15.7	1.25 H	65	-0.86	39.16
3	7386.00	57.1 PK	74.0	-16.9	1.00 H	90	11.09	46.01
4	7386.00	45.8 AV	54.0	-8.2	1.00 H	90	-0.21	46.01

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





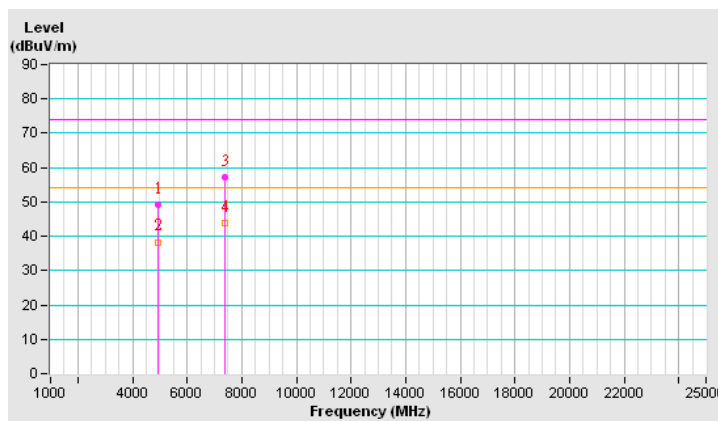
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11b CH 11 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	49.1 PK	74.0	-24.9	1.00 V	90	9.94	39.16
2	4924.00	38.3 AV	54.0	-15.7	1.00 V	90	-0.86	39.16
3	7386.00	57.2 PK	74.0	-16.8	1.01 V	252	11.19	46.01
4	7386.00	44.0 AV	54.0	-10.0	1.01 V	252	-2.01	46.01

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





A D T

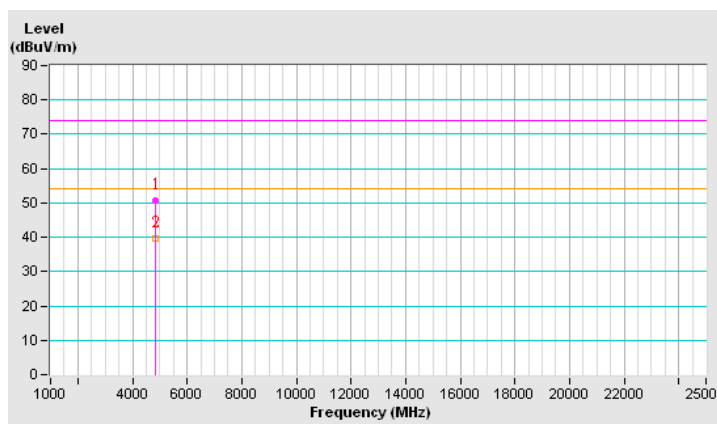
FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11b CH 1 / Ant.4
FINAL TEST DATE	May 03, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	50.8 PK	74.0	-23.2	1.09 H	92	44.31	6.49
2	4824.00	39.5 AV	54.0	-14.5	1.09 H	92	33.01	6.49

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





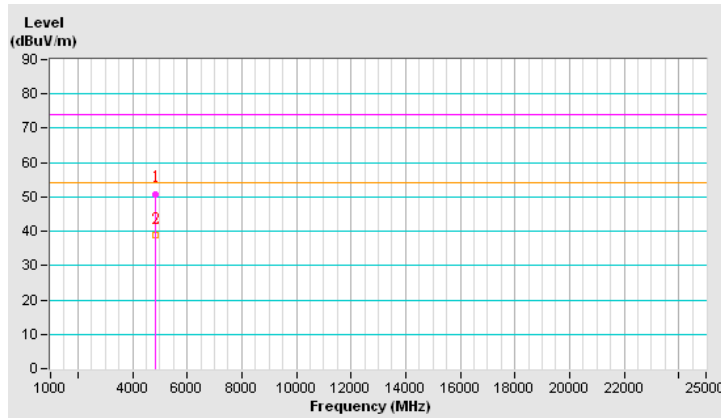
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11b CH 1 / Ant.4
FINAL TEST DATE	May 03, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	50.9 PK	74.0	-23.1	1.00 V	94	44.41	6.49
2	4824.00	38.8 AV	54.0	-15.2	1.00 V	94	32.31	6.49

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





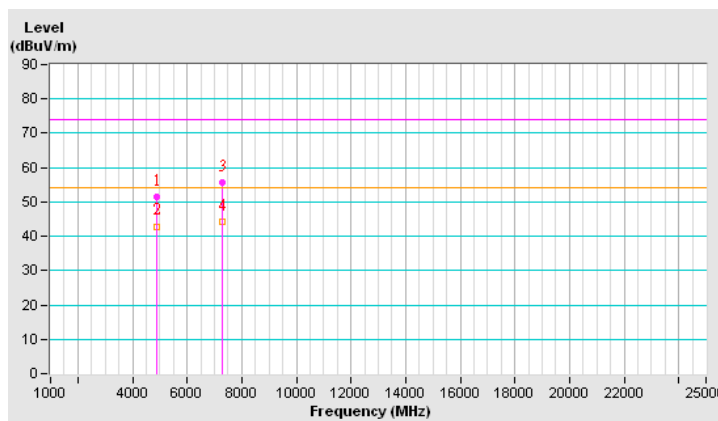
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11b CH 6 / Ant.4
FINAL TEST DATE	May 03, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	51.4 PK	74.0	-22.6	1.00 H	85	44.87	6.53
2	4874.00	42.9 AV	54.0	-11.1	1.00 H	85	36.37	6.53
3	7311.00	55.8 PK	74.0	-18.2	1.12 H	37	44.71	11.09
4	7311.00	44.1 AV	54.0	-9.9	1.12 H	37	33.01	11.09

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





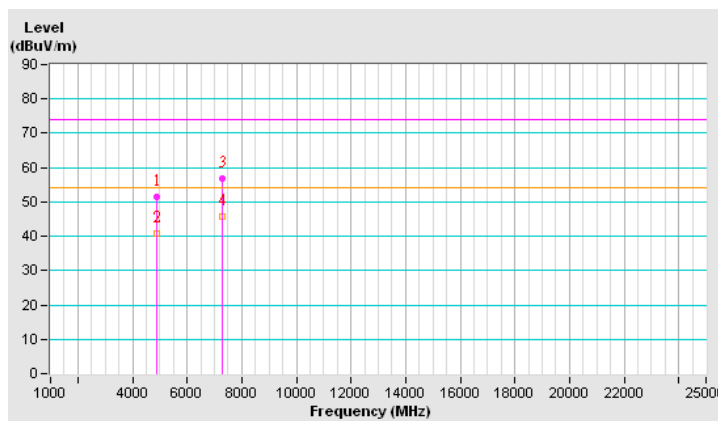
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11b CH 6 / Ant.4
FINAL TEST DATE	May 03, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	51.3 PK	74.0	-22.7	1.00 V	91	44.77	6.53
2	4874.00	40.9 AV	54.0	-13.1	1.00 V	91	34.37	6.53
3	7311.00	56.7 PK	74.0	-17.3	1.06 V	230	45.61	11.09
4	7311.00	45.8 AV	54.0	-8.2	1.06 V	230	34.71	11.09

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.

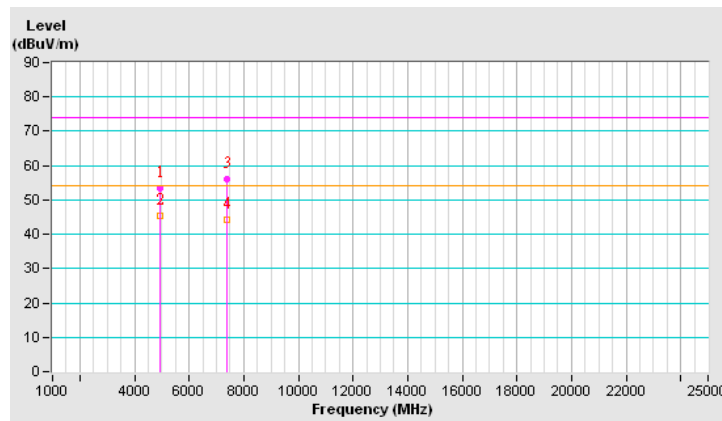


FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11b CH 11 / Ant.4
FINAL TEST DATE	May 03, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	53.2 PK	74.0	-20.8	1.09 H	26	46.66	6.54
2	4924.00	45.4 AV	54.0	-8.6	1.09 H	26	38.86	6.54
3	7386.00	55.9 PK	74.0	-18.1	1.09 H	26	44.49	11.41
4	7386.00	44.3 AV	54.0	-9.7	1.09 H	26	32.89	11.41

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





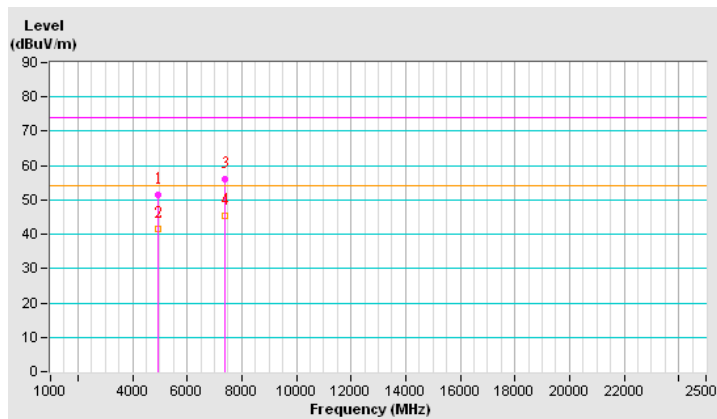
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11b CH 11 / Ant.4
FINAL TEST DATE	May 03, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	51.3 PK	74.0	-22.7	1.00 V	92	44.76	6.54
2	4924.00	41.5 AV	54.0	-12.5	1.00 V	92	34.96	6.54
3	7386.00	56.1 PK	74.0	-17.9	1.00 V	221	44.69	11.41
4	7386.00	45.4 AV	54.0	-8.6	1.00 V	221	33.99	11.41

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





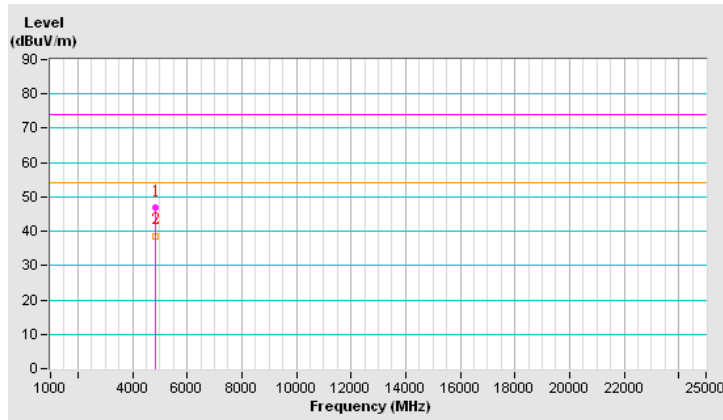
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 1 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	46.9 PK	74.0	-27.1	1.27 H	81	8.01	38.89
2	4824.00	38.7 AV	54.0	-15.3	1.27 H	81	-0.19	38.89

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





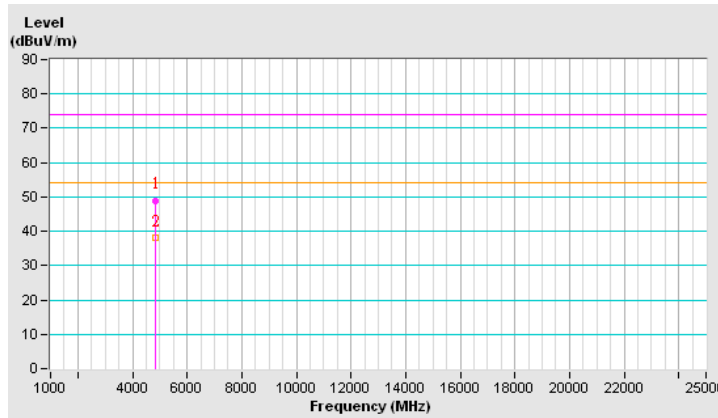
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 1 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	49.0 PK	74.0	-25.0	1.00 V	85	10.11	38.89
2	4824.00	38.0 AV	54.0	-16.0	1.00 V	85	-0.89	38.89

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.





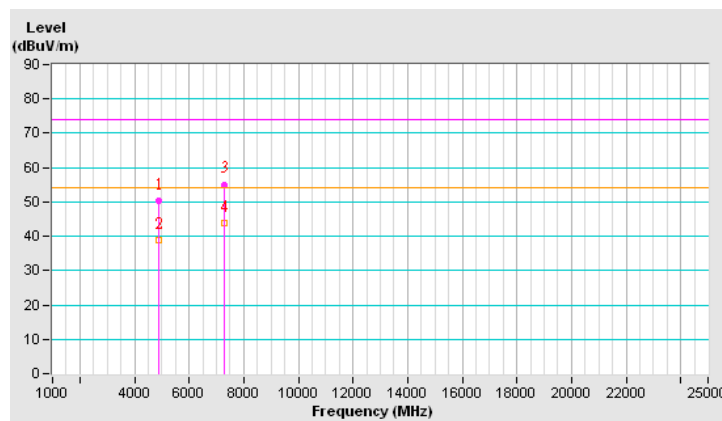
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 6 / Ant.2
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.4 PK	74.0	-23.6	1.00 H	110	7.16	43.24
2	4874.00	38.9 AV	54.0	-15.1	1.00 H	110	-4.34	43.24
3	7311.00	55.1 PK	74.0	-18.9	1.00 H	68	7.03	48.07
4	7311.00	43.8 AV	54.0	-10.2	1.00 H	68	-4.27	48.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





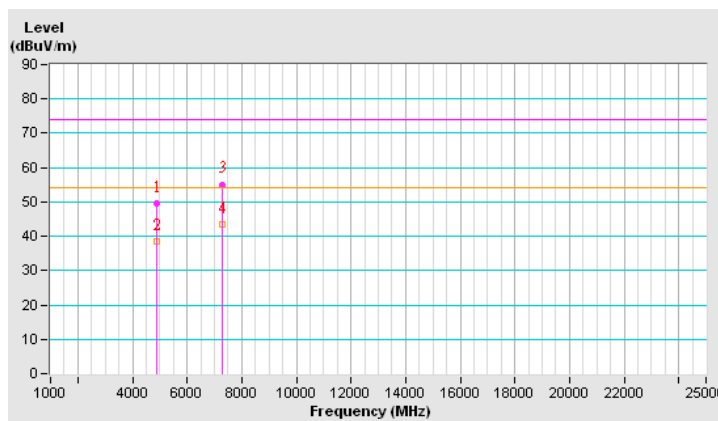
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 6 / Ant.2
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	49.6 PK	74.0	-24.4	1.00 V	231	6.36	43.24
2	4874.00	38.5 AV	54.0	-15.5	1.00 V	231	-4.74	43.24
3	7311.00	55.1 PK	74.0	-18.9	1.00 V	95	7.03	48.07
4	7311.00	43.6 AV	54.0	-10.4	1.00 V	95	-4.47	48.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





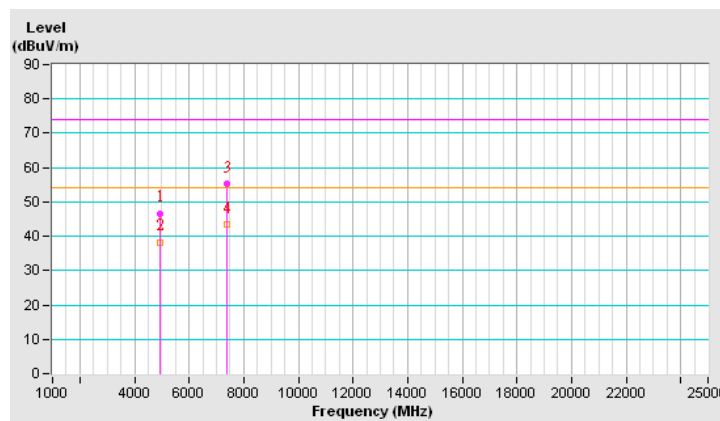
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 11 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	46.7 PK	74.0	-27.3	1.25 H	96	7.54	39.16
2	4924.00	38.3 AV	54.0	-15.7	1.25 H	96	-0.86	39.16
3	7386.00	55.2 PK	74.0	-18.8	1.01 H	259	9.19	46.01
4	7386.00	43.5 AV	54.0	-10.5	1.01 H	259	-2.51	46.01

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





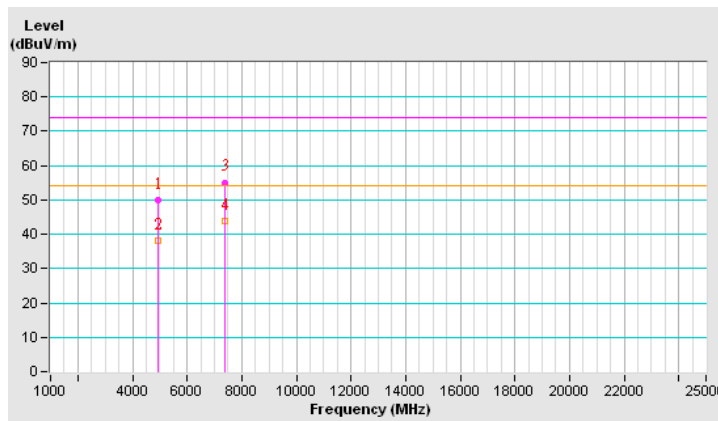
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 11 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	49.8 PK	74.0	-24.2	1.01 V	132	10.64	39.16
2	4924.00	38.1 AV	54.0	-15.9	1.01 V	132	-1.06	39.16
3	7386.00	55.1 PK	74.0	-18.9	1.00 V	226	9.09	46.01
4	7386.00	43.7 AV	54.0	-10.3	1.00 V	226	-2.31	46.01

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





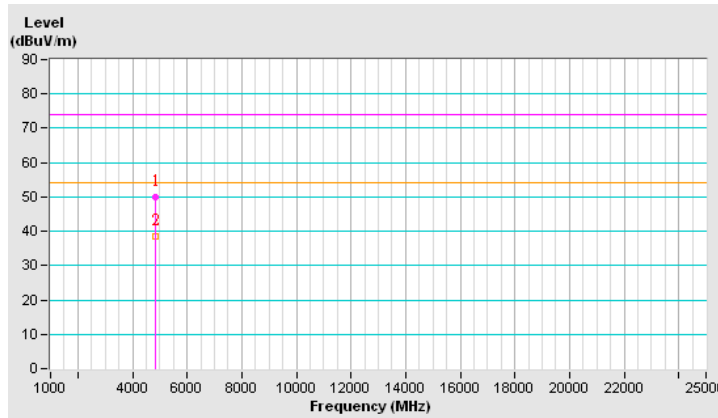
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11g CH 1 / Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	50.1 PK	74.0	-23.9	1.04 H	130	46.69	3.41
2	4824.00	38.6 AV	54.0	-15.4	1.04 H	130	35.19	3.41

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





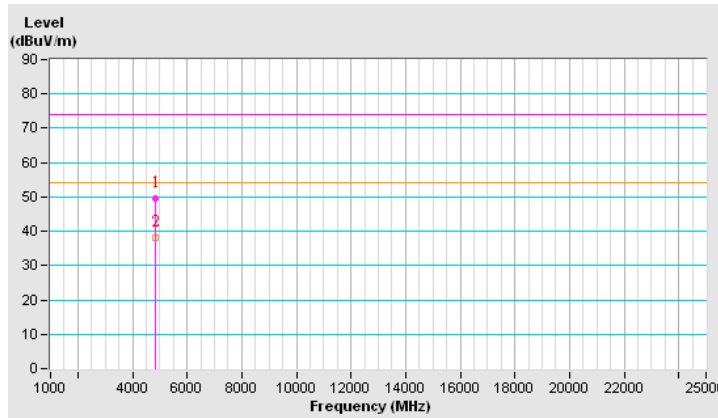
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11g CH 1 / Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	49.7 PK	74.0	-24.3	1.02 V	82	46.29	3.41
2	4824.00	38.1 AV	54.0	-15.9	1.02 V	82	34.69	3.41

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





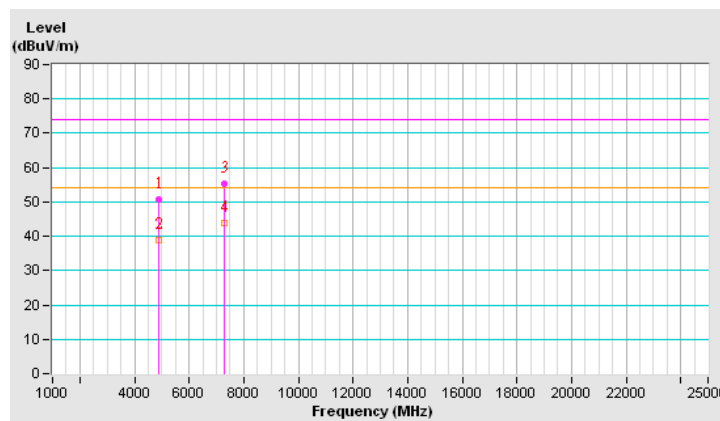
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11g CH 6 / Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.7 PK	74.0	-23.3	1.00 H	153	7.46	43.24
2	4874.00	38.9 AV	54.0	-15.1	1.00 H	153	-4.34	43.24
3	7311.00	55.3 PK	74.0	-18.7	1.00 H	211	7.23	48.07
4	7311.00	43.8 AV	54.0	-10.2	1.00 H	211	-4.27	48.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





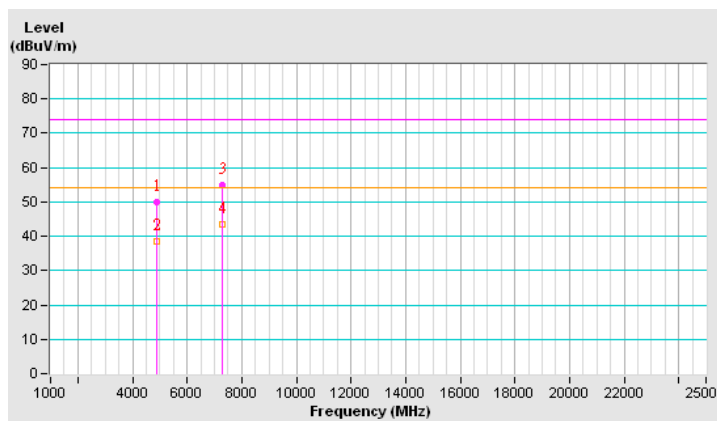
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11g CH 6 / Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.1 PK	74.0	-23.9	1.00 V	53	6.86	43.24
2	4874.00	38.6 AV	54.0	-15.4	1.00 V	53	-4.64	43.24
3	7311.00	54.8 PK	74.0	-19.2	1.00 V	113	6.73	48.07
4	7311.00	43.5 AV	54.0	-10.5	1.00 V	113	-4.57	48.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





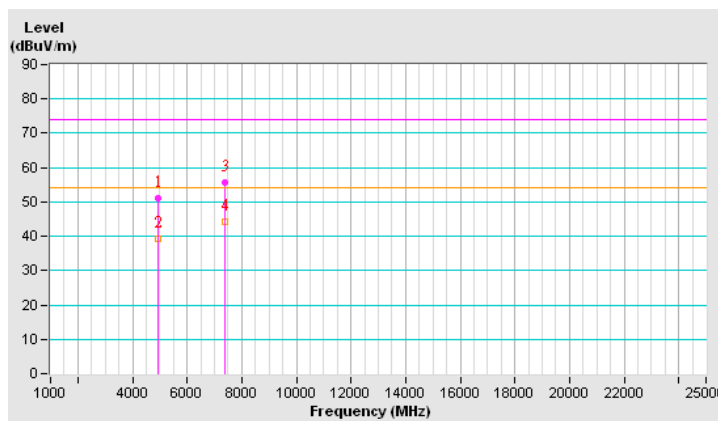
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FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11g CH 11 / Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	51.1 PK	74.0	-22.9	1.00 H	132	7.83	43.27
2	4924.00	39.2 AV	54.0	-14.8	1.00 H	132	-4.07	43.27
3	7386.00	55.7 PK	74.0	-18.3	1.00 H	201	7.30	48.40
4	7386.00	44.1 AV	54.0	-9.9	1.00 H	201	-4.30	48.40

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





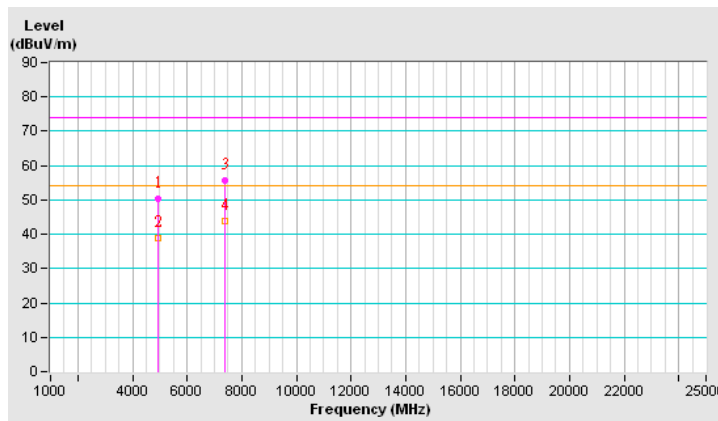
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11g CH 11 / Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	50.3 PK	74.0	-23.7	1.00 V	42	7.03	43.27
2	4924.00	39.0 AV	54.0	-15.0	1.00 V	42	-4.27	43.27
3	7386.00	55.6 PK	74.0	-18.4	1.00 V	111	7.20	48.40
4	7386.00	43.8 AV	54.0	-10.2	1.00 V	111	-4.60	48.40

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

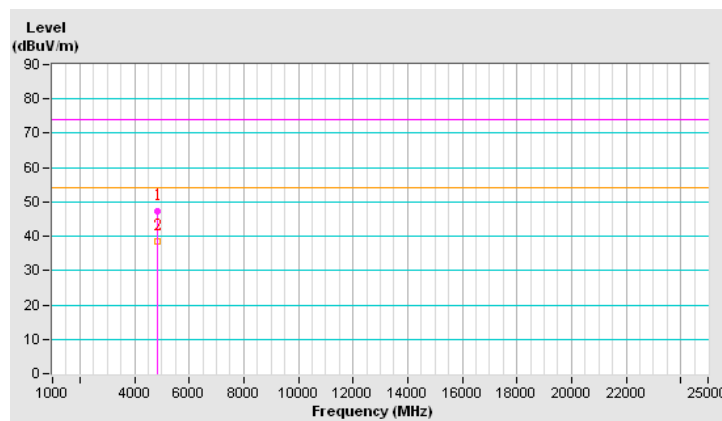


FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 1 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	47.3 PK	74.0	-26.7	1.23 H	98	8.41	38.89
2	4824.00	38.6 AV	54.0	-15.4	1.23 H	98	-0.29	38.89

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





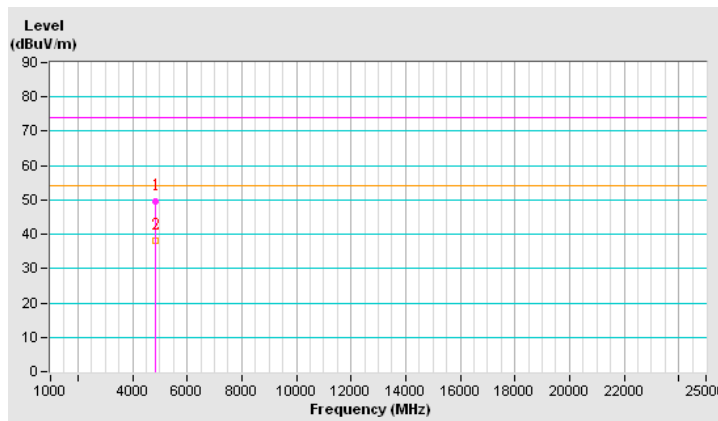
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FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 1 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	49.6 PK	74.0	-24.4	1.01 V	122	10.71	38.89
2	4824.00	38.0 AV	54.0	-16.0	1.01 V	122	-0.89	38.89

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





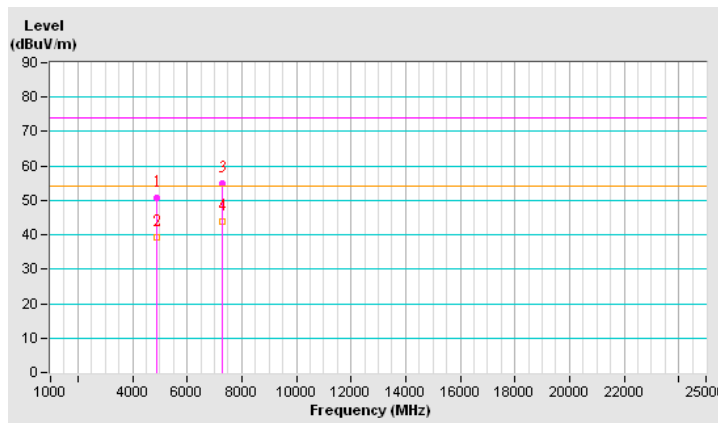
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FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 6 / Ant.2
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.8 PK	74.0	-23.2	1.00 H	123	7.56	43.24
2	4874.00	39.2 AV	54.0	-14.8	1.00 H	123	-4.04	43.24
3	7311.00	54.9 PK	74.0	-19.1	1.00 H	68	6.83	48.07
4	7311.00	43.8 AV	54.0	-10.2	1.00 H	68	-4.27	48.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





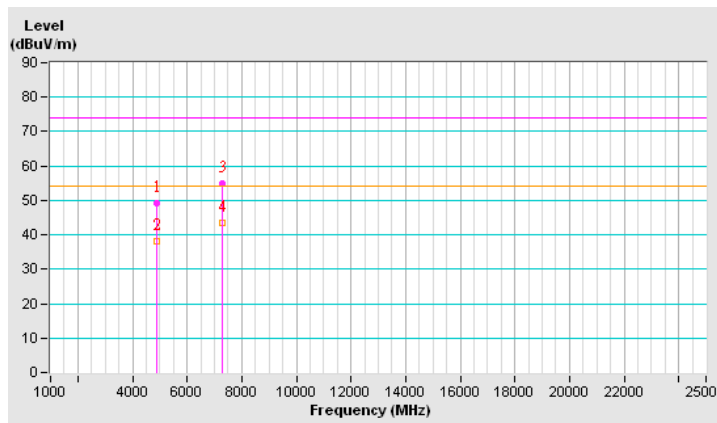
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FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 6 / Ant.2
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	49.2 PK	74.0	-24.8	1.00 V	242	5.96	43.24
2	4874.00	38.1 AV	54.0	-15.9	1.00 V	242	-5.14	43.24
3	7311.00	54.8 PK	74.0	-19.2	1.01 V	81	6.73	48.07
4	7311.00	43.6 AV	54.0	-10.4	1.01 V	81	-4.47	48.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





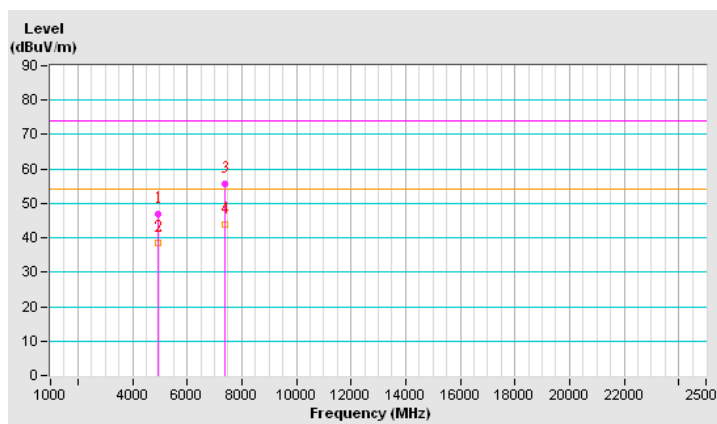
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FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 11 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	46.8 PK	74.0	-27.2	1.31 H	109	7.64	39.16
2	4924.00	38.6 AV	54.0	-15.4	1.31 H	109	-0.56	39.16
3	7386.00	55.6 PK	74.0	-18.4	1.05 H	272	9.59	46.01
4	7386.00	43.7 AV	54.0	-10.3	1.05 H	272	-2.31	46.01

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





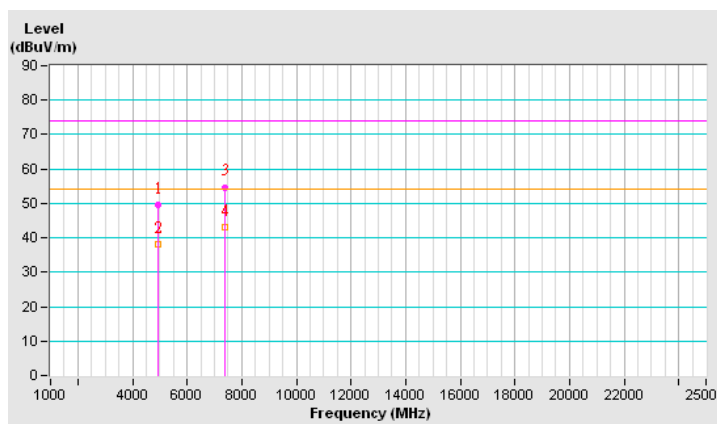
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FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 11 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	49.6 PK	74.0	-24.4	1.04 V	125	10.44	39.16
2	4924.00	38.0 AV	54.0	-16.0	1.04 V	125	-1.16	39.16
3	7386.00	54.7 PK	74.0	-19.3	1.03 V	238	8.69	46.01
4	7386.00	43.2 AV	54.0	-10.8	1.03 V	238	-2.81	46.01

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

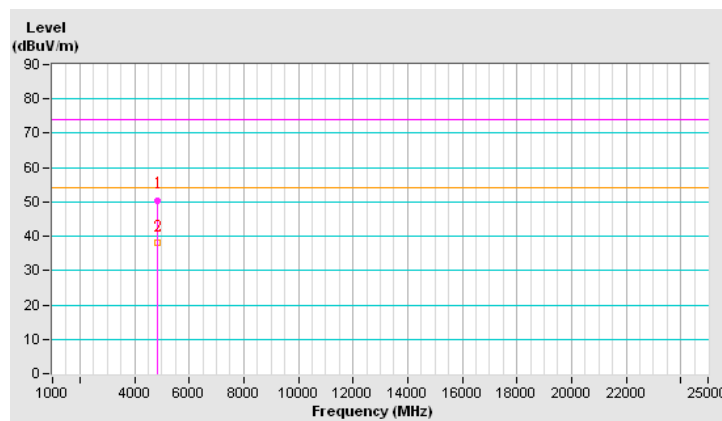


FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 1 / Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	50.5 PK	74.0	-23.5	1.00 H	121	47.09	3.41
2	4824.00	38.2 AV	54.0	-15.8	1.00 H	121	34.79	3.41

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





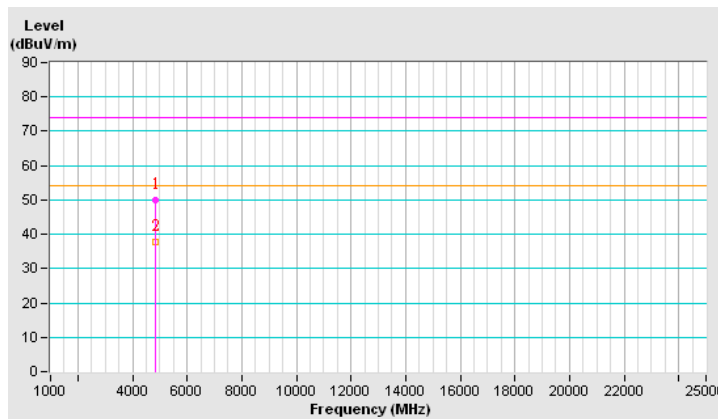
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FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 1 / Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	50.1 PK	74.0	-23.9	1.00 V	37	46.69	3.41
2	4824.00	37.8 AV	54.0	-16.2	1.00 V	37	34.39	3.41

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

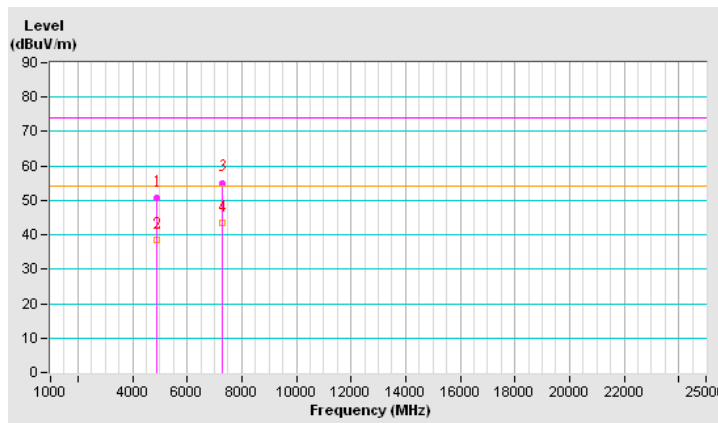


FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 6 / Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.6 PK	74.0	-23.4	1.00 H	111	7.36	43.24
2	4874.00	38.4 AV	54.0	-15.6	1.00 H	111	-4.84	43.24
3	7311.00	55.1 PK	74.0	-18.9	1.00 H	122	7.03	48.07
4	7311.00	43.5 AV	54.0	-10.5	1.00 H	122	-4.57	48.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





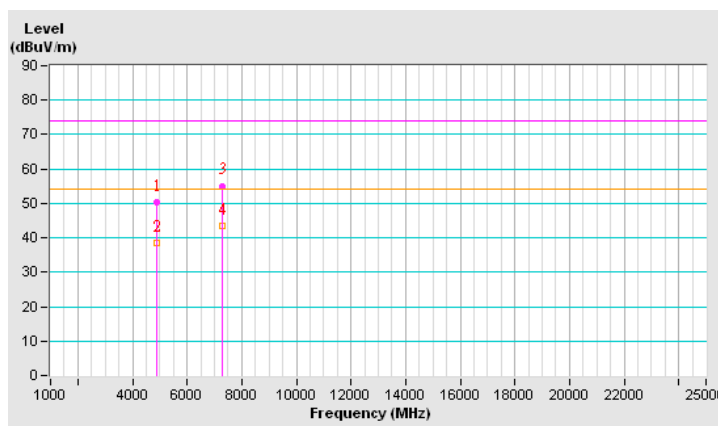
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FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 6 / Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.2 PK	74.0	-23.8	1.00 V	66	6.96	43.24
2	4874.00	38.5 AV	54.0	-15.5	1.00 V	66	-4.74	43.24
3	7311.00	55.1 PK	74.0	-18.9	1.00 V	113	7.03	48.07
4	7311.00	43.6 AV	54.0	-10.4	1.00 V	113	-4.47	48.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





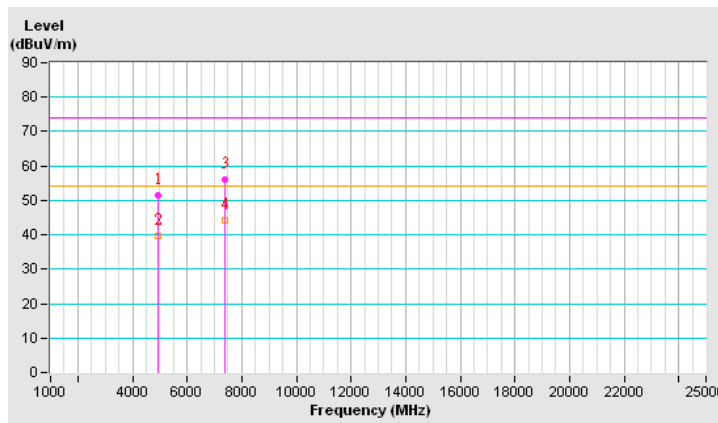
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FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 11 / Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	51.3 PK	74.0	-22.7	1.00 H	122	8.03	43.27
2	4924.00	39.6 AV	54.0	-14.4	1.00 H	122	-3.67	43.27
3	7386.00	56.1 PK	74.0	-17.9	1.00 H	195	7.70	48.40
4	7386.00	44.3 AV	54.0	-9.7	1.00 H	195	-4.10	48.40

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





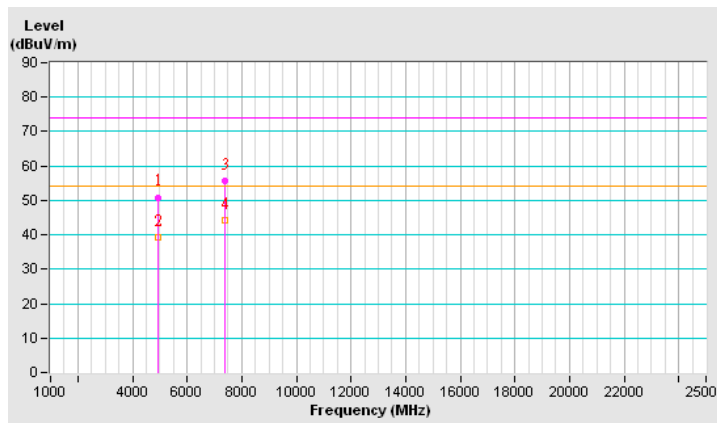
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FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 11 / Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	50.9 PK	74.0	-23.1	1.00 V	31	7.63	43.27
2	4924.00	39.2 AV	54.0	-14.8	1.00 V	31	-4.07	43.27
3	7386.00	55.8 PK	74.0	-18.2	1.00 V	122	7.40	48.40
4	7386.00	44.1 AV	54.0	-9.9	1.00 V	122	-4.30	48.40

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





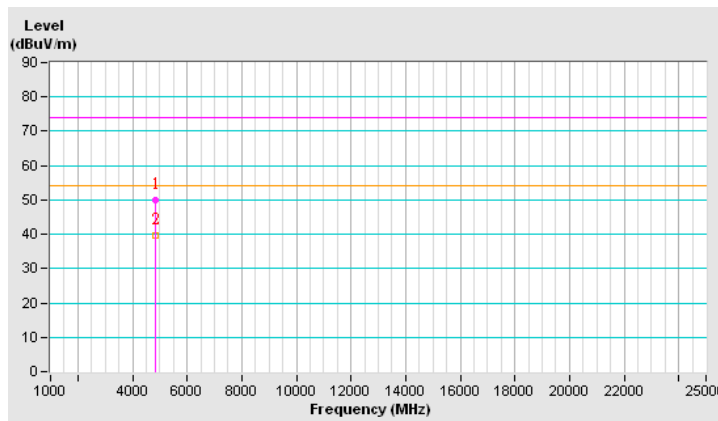
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FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 1 / Ant.1 + Ant.2
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	50.0 PK	74.0	-24.0	1.02 H	140	46.59	3.41
2	4824.00	39.6 AV	54.0	-14.4	1.02 H	140	36.19	3.41

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





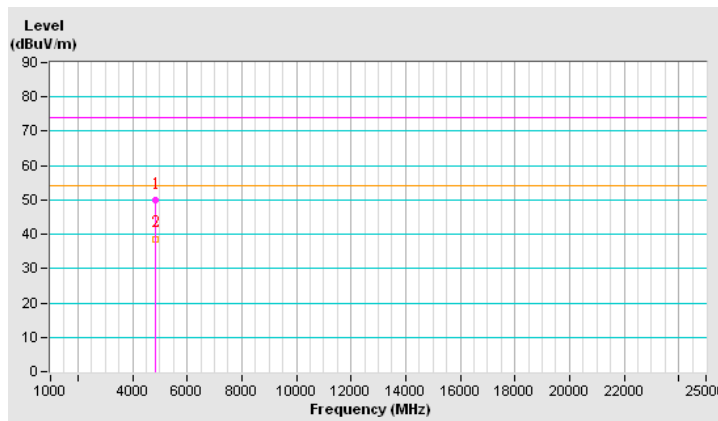
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FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 1 / Ant.1 + Ant.2
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	50.1 PK	74.0	-23.9	1.06 V	89	46.69	3.41
2	4824.00	38.7 AV	54.0	-15.3	1.06 V	89	35.29	3.41

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





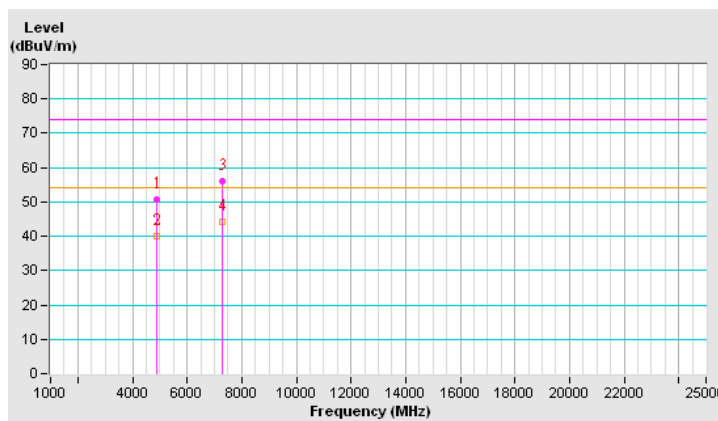
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 6 / Ant.1 + Ant.2
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.6 PK	74.0	-23.4	1.00 H	152	7.36	43.24
2	4874.00	40.1 AV	54.0	-13.9	1.00 H	152	-3.14	43.24
3	7311.00	56.1 PK	74.0	-17.9	1.04 H	36	8.03	48.07
4	7311.00	44.1 AV	54.0	-9.9	1.04 H	36	-3.97	48.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





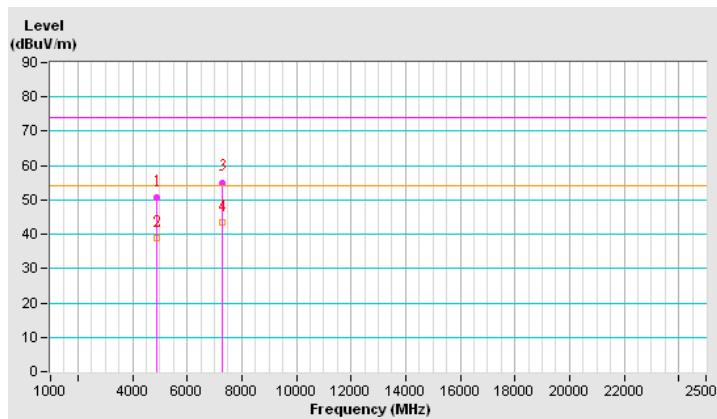
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 6 / Ant.1 + Ant.2
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.7 PK	74.0	-23.3	1.00 V	111	7.46	43.24
2	4874.00	38.9 AV	54.0	-15.1	1.00 V	111	-4.34	43.24
3	7311.00	55.1 PK	74.0	-18.9	1.01 V	85	7.03	48.07
4	7311.00	43.4 AV	54.0	-10.6	1.01 V	85	-4.67	48.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





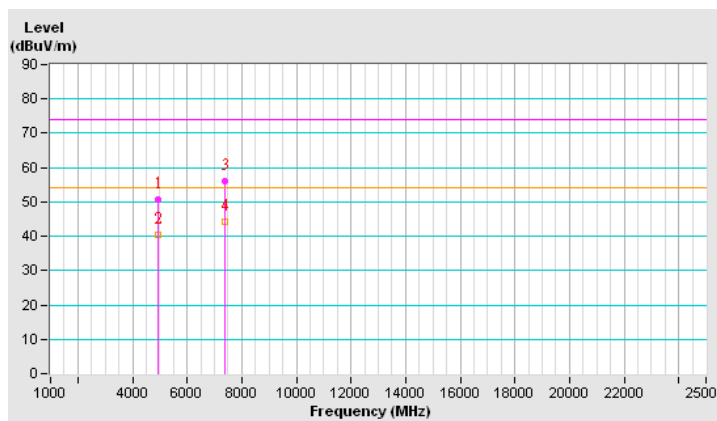
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 11 / Ant.1 + Ant.2
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	50.6 PK	74.0	-23.4	1.06 H	164	47.15	3.45
2	4924.00	40.3 AV	54.0	-13.7	1.06 H	164	36.85	3.45
3	7386.00	56.2 PK	74.0	-17.8	1.07 H	24	45.98	10.22
4	7386.00	44.2 AV	54.0	-9.8	1.07 H	24	33.98	10.22

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





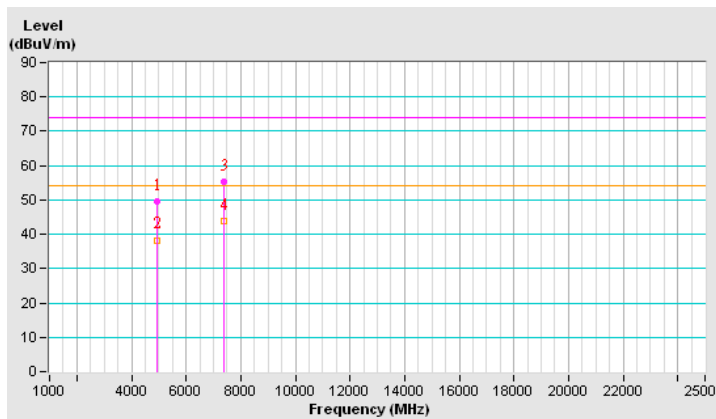
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 11 / Ant.1 + Ant.2
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	49.7 PK	74.0	-24.3	1.04 V	91	46.25	3.45
2	4924.00	38.3 AV	54.0	-15.7	1.04 V	91	34.85	3.45
3	7386.00	55.3 PK	74.0	-18.7	1.04 V	97	45.08	10.22
4	7386.00	43.7 AV	54.0	-10.3	1.04 V	97	33.48	10.22

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





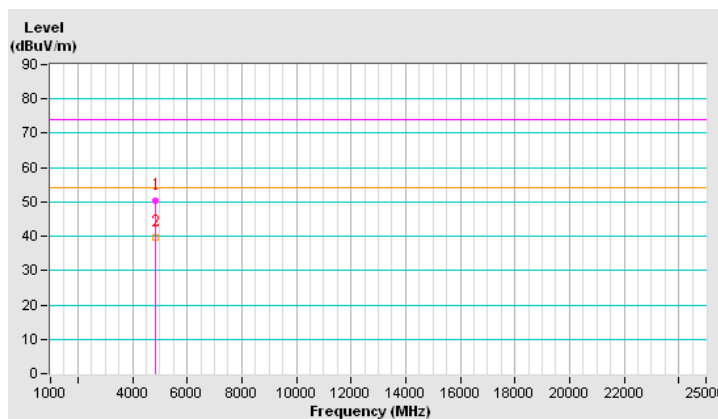
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 1 / Ant.1 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	50.2 PK	74.0	-23.8	1.05 H	82	46.79	3.41
2	4824.00	39.8 AV	54.0	-14.2	1.05 H	82	36.39	3.41

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





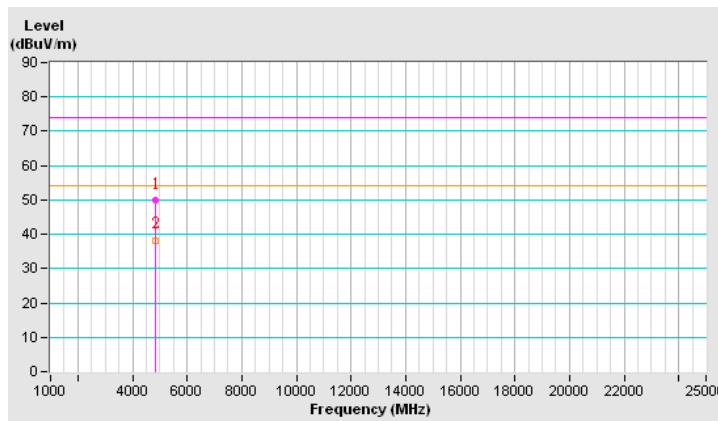
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 1 / Ant.1 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	49.8 PK	74.0	-24.2	1.10 V	137	46.39	3.41
2	4824.00	38.3 AV	54.0	-15.7	1.10 V	137	34.89	3.41

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





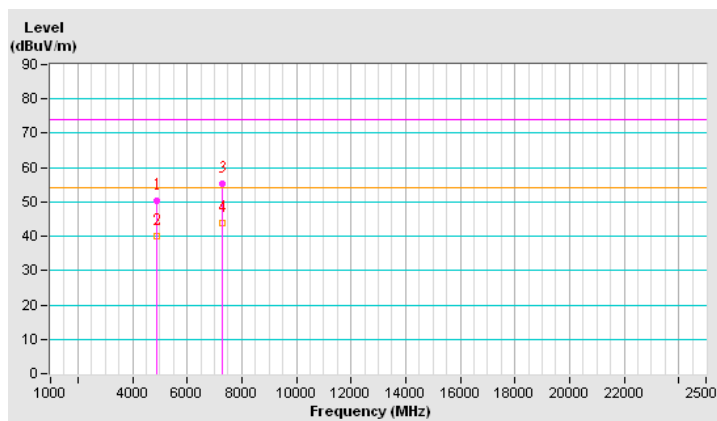
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 6 / Ant.1 + Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.4 PK	74.0	-23.6	1.01 H	97	7.16	43.24
2	4874.00	39.9 AV	54.0	-14.1	1.01 H	97	-3.34	43.24
3	7311.00	55.3 PK	74.0	-18.7	1.04 H	211	7.23	48.07
4	7311.00	43.8 AV	54.0	-10.2	1.04 H	211	-4.27	48.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





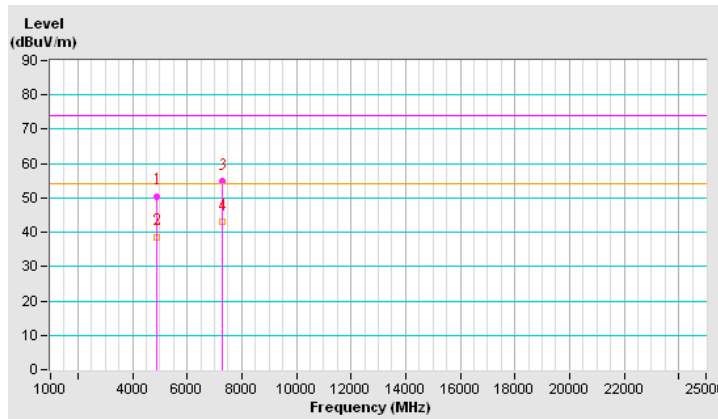
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 6 / Ant.1 + Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.5 PK	74.0	-23.5	1.00 V	152	7.26	43.24
2	4874.00	38.7 AV	54.0	-15.3	1.00 V	152	-4.54	43.24
3	7311.00	54.8 PK	74.0	-19.2	1.01 V	112	6.73	48.07
4	7311.00	43.2 AV	54.0	-10.8	1.01 V	112	-4.87	48.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





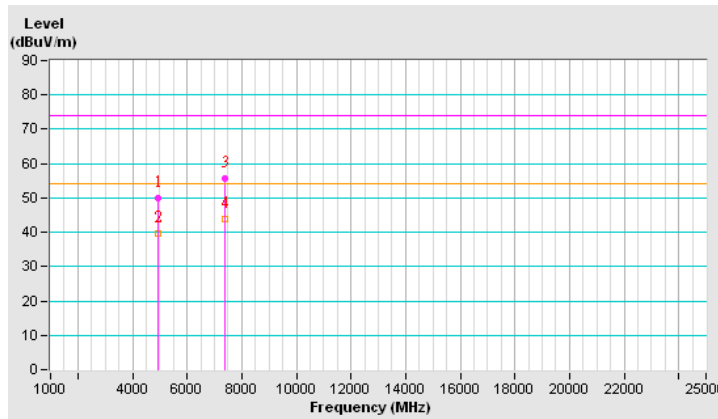
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 11 / Ant.1 + Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	50.1 PK	74.0	-23.9	1.07 H	75	6.83	43.27
2	4924.00	39.5 AV	54.0	-14.5	1.07 H	75	-3.77	43.27
3	7386.00	55.5 PK	74.0	-18.5	1.06 H	236	7.10	48.40
4	7386.00	44.0 AV	54.0	-10.0	1.06 H	236	-4.40	48.40

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





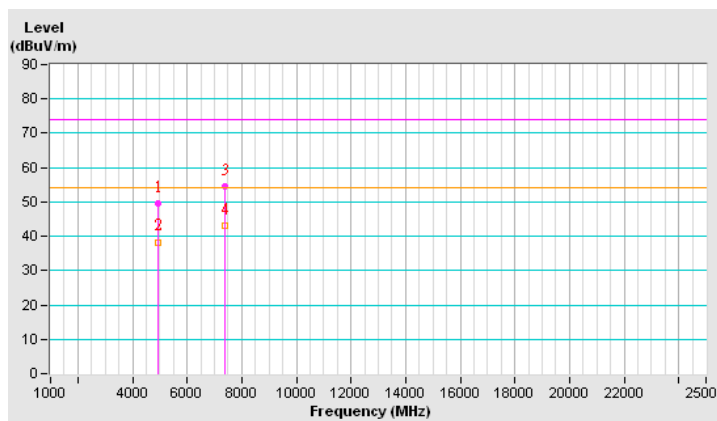
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 11 / Ant.1 + Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	49.7 PK	74.0	-24.3	1.01 V	141	6.43	43.27
2	4924.00	38.3 AV	54.0	-15.7	1.01 V	141	-4.97	43.27
3	7386.00	54.6 PK	74.0	-19.4	1.00 V	135	6.20	48.40
4	7386.00	43.2 AV	54.0	-10.8	1.00 V	135	-5.20	48.40

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





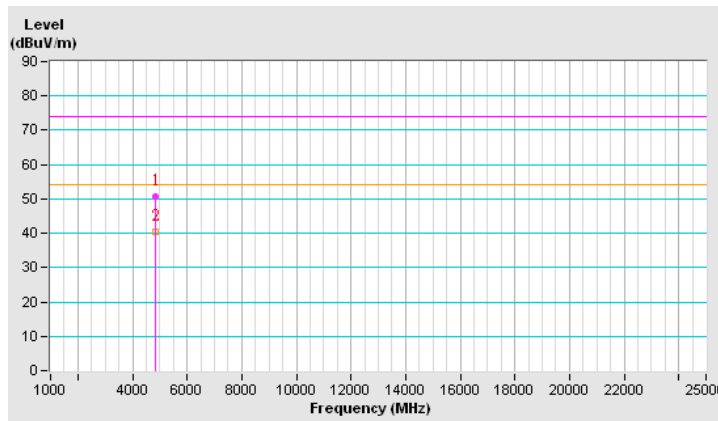
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 1 / Ant.1 + Ant.2 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	50.8 PK	74.0	-23.2	1.00 H	100	47.39	3.41
2	4824.00	40.3 AV	54.0	-13.7	1.00 H	100	36.89	3.41

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





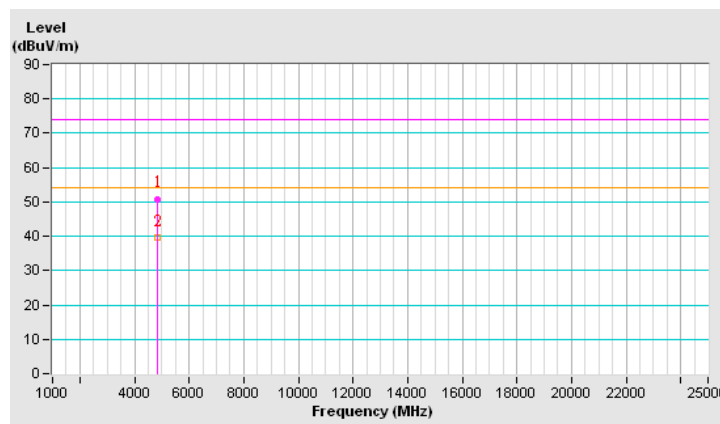
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 1 / Ant.1 + Ant.2 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4824.00	50.9 PK	74.0	-23.1	1.00 V	153	47.49	3.41
2	4824.00	39.5 AV	54.0	-14.5	1.00 V	153	36.09	3.41

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





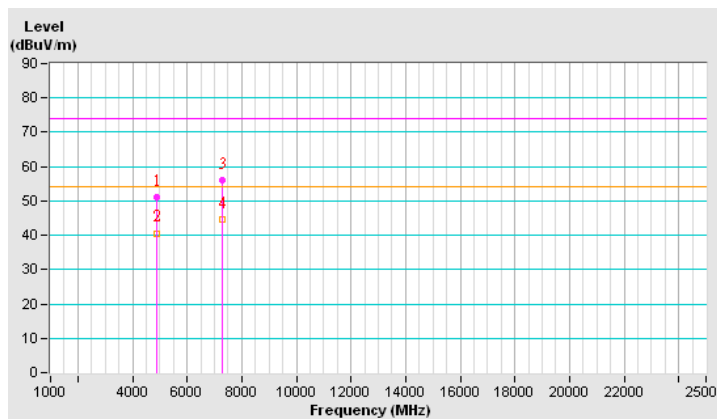
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 6 / Ant.1 + Ant.2 + Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	51.1 PK	74.0	-22.9	1.00 H	111	7.86	43.24
2	4874.00	40.6 AV	54.0	-13.4	1.00 H	111	-2.64	43.24
3	7311.00	56.1 PK	74.0	-17.9	1.04 H	125	8.03	48.07
4	7311.00	44.5 AV	54.0	-9.5	1.04 H	125	-3.57	48.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





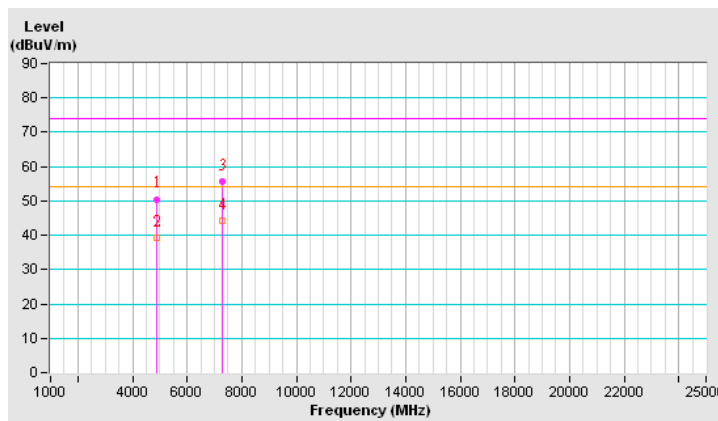
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 6 / Ant.1 + Ant.2 + Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.5 PK	74.0	-23.5	1.00 V	151	7.26	43.24
2	4874.00	39.1 AV	54.0	-14.9	1.00 V	151	-4.14	43.24
3	7311.00	55.7 PK	74.0	-18.3	1.01 V	79	7.63	48.07
4	7311.00	44.3 AV	54.0	-9.7	1.01 V	79	-3.77	48.07

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





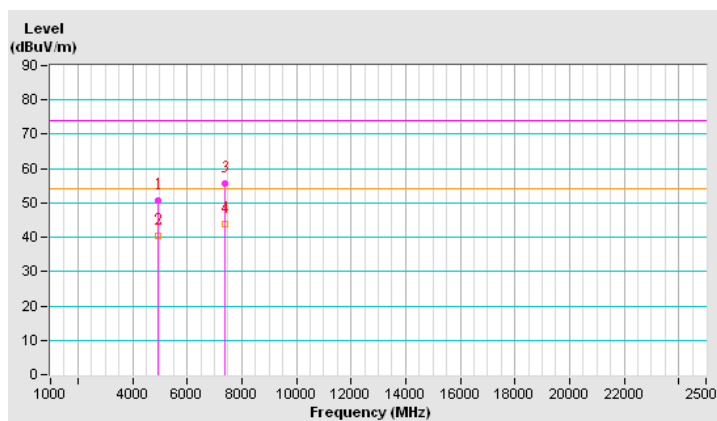
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 11 / Ant.1 + Ant.2 + Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	50.7 PK	74.0	-23.3	1.00 H	105	7.43	43.27
2	4924.00	40.5 AV	54.0	-13.5	1.00 H	105	-2.77	43.27
3	7386.00	55.5 PK	74.0	-18.5	1.02 H	137	7.10	48.40
4	7386.00	44.0 AV	54.0	-10.0	1.02 H	137	-4.40	48.40

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





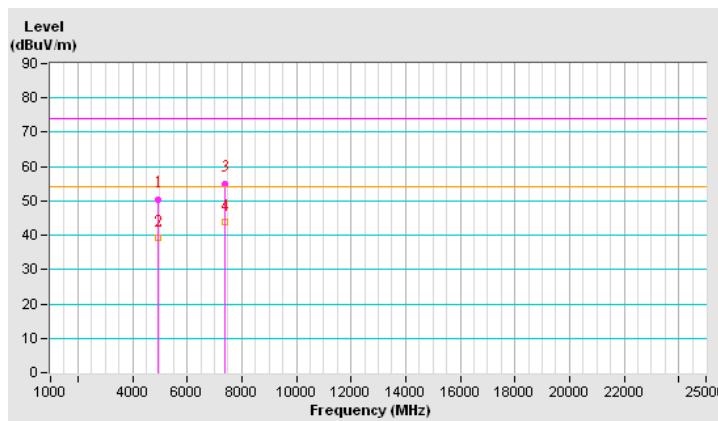
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 11 / Ant.1 + Ant.2 + Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4924.00	50.5 PK	74.0	-23.5	1.00 V	139	7.23	43.27
2	4924.00	39.2 AV	54.0	-14.8	1.00 V	139	-4.07	43.27
3	7386.00	55.1 PK	74.0	-18.9	1.00 V	85	6.70	48.40
4	7386.00	43.8 AV	54.0	-10.2	1.00 V	85	-4.60	48.40

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





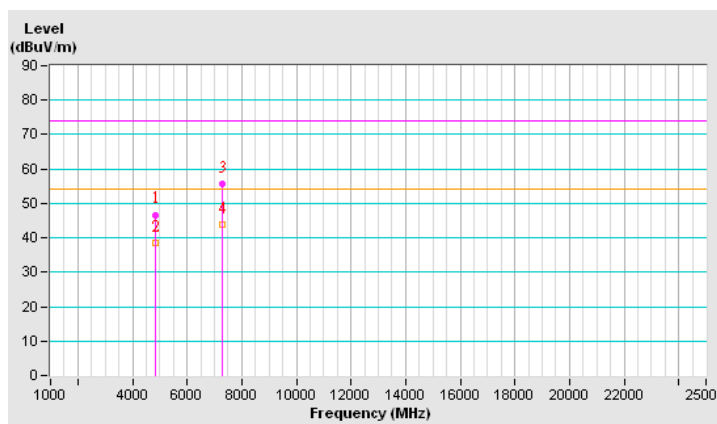
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 3 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4844.00	46.7 PK	74.0	-27.3	1.33 H	115	7.75	38.95
2	4844.00	38.5 AV	54.0	-15.5	1.33 H	115	-0.45	38.95
3	7266.00	55.7 PK	74.0	-18.3	1.08 H	268	10.05	45.65
4	7266.00	43.7 AV	54.0	-10.3	1.08 H	268	-1.95	45.65

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





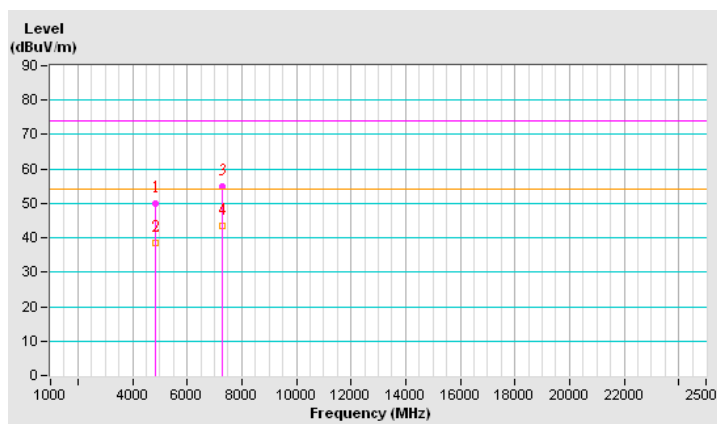
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 3 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4844.00	50.1 PK	74.0	-23.9	1.06 V	120	11.15	38.95
2	4844.00	38.4 AV	54.0	-15.6	1.06 V	120	-0.55	38.95
3	7266.00	54.9 PK	74.0	-19.1	1.00 V	250	9.25	45.65
4	7266.00	43.5 AV	54.0	-10.5	1.00 V	250	-2.15	45.65

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





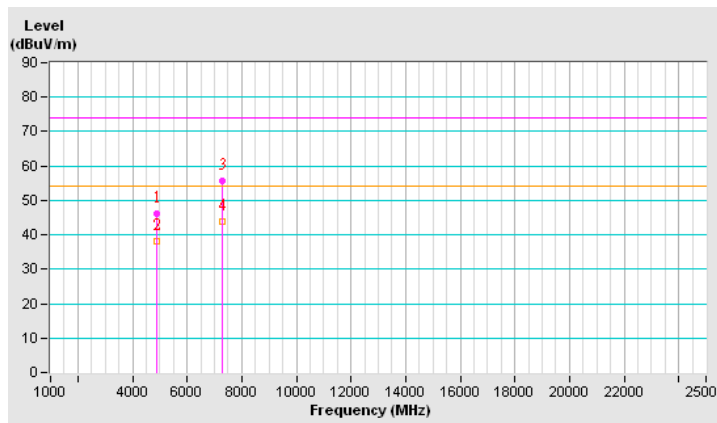
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 6 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	46.2 PK	74.0	-27.8	1.30 H	125	7.16	39.04
2	4874.00	38.0 AV	54.0	-16.0	1.30 H	125	-1.04	39.04
3	7311.00	55.8 PK	74.0	-18.2	1.04 H	282	10.01	45.79
4	7311.00	43.9 AV	54.0	-10.1	1.04 H	282	-1.89	45.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





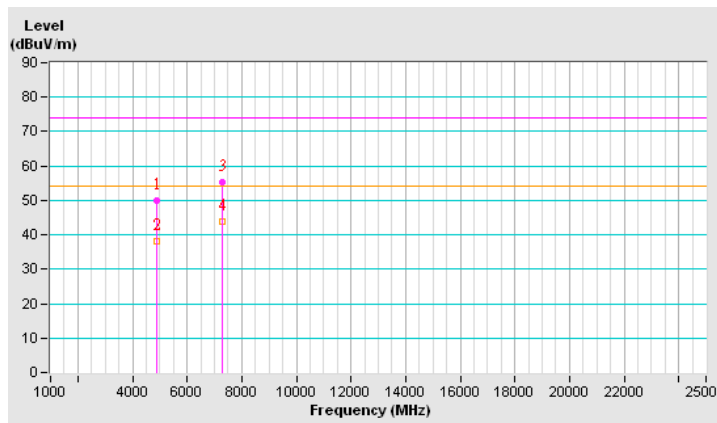
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 6 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	49.9 PK	74.0	-24.1	1.11 V	130	10.86	39.04
2	4874.00	38.0 AV	54.0	-16.0	1.11 V	130	-1.04	39.04
3	7311.00	55.3 PK	74.0	-18.7	1.00 V	260	9.51	45.79
4	7311.00	43.9 AV	54.0	-10.1	1.00 V	260	-1.89	45.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





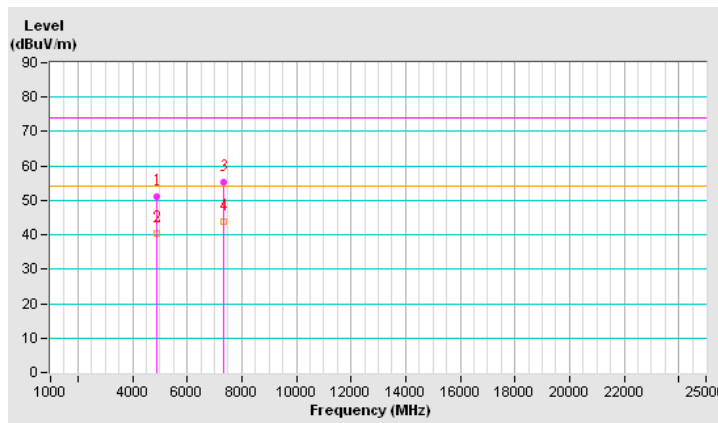
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 9 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4904.00	51.0 PK	74.0	-23.0	1.50 H	54	11.87	39.13
2	4904.00	40.3 AV	54.0	-13.7	1.50 H	54	1.17	39.13
3	7356.00	55.3 PK	74.0	-18.7	1.02 H	260	9.38	45.92
4	7356.00	43.8 AV	54.0	-10.2	1.02 H	260	-2.12	45.92

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





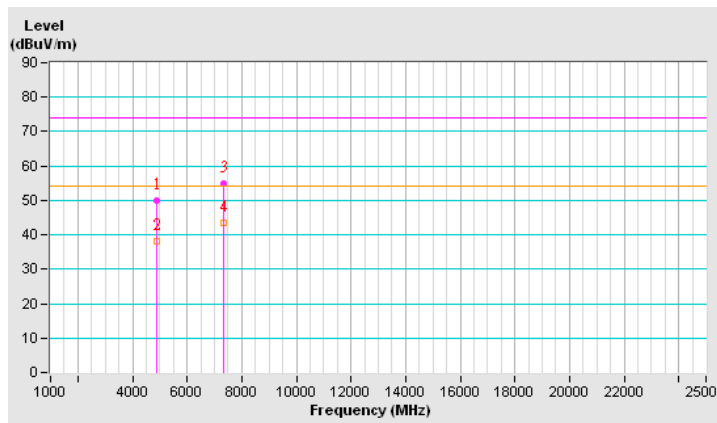
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	73 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 9 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4904.00	49.9 PK	74.0	-24.1	1.00 V	149	10.77	39.13
2	4904.00	38.2 AV	54.0	-15.8	1.00 V	149	-0.93	39.13
3	7356.00	54.8 PK	74.0	-19.2	1.01 V	208	8.88	45.92
4	7356.00	43.3 AV	54.0	-10.7	1.01 V	208	-2.62	45.92

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

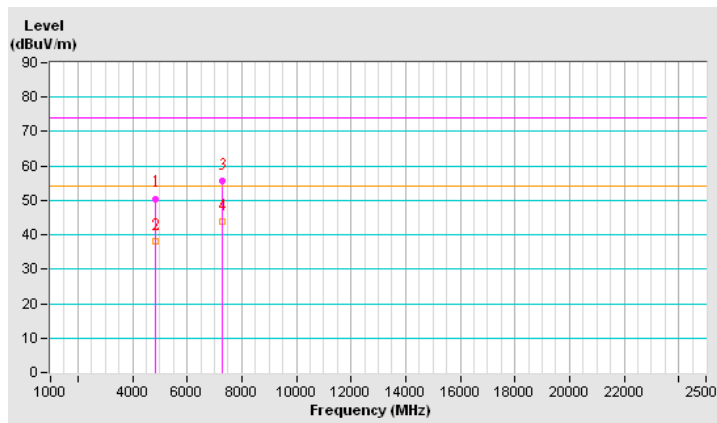


FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 3 / Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4844.00	50.5 PK	74.0	-23.5	1.00 H	121	47.10	3.40
2	4844.00	38.1 AV	54.0	-15.9	1.00 H	121	34.70	3.40
3	7266.00	55.6 PK	74.0	-18.4	1.00 H	127	45.64	9.96
4	7266.00	43.9 AV	54.0	-10.1	1.00 H	127	33.94	9.96

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value

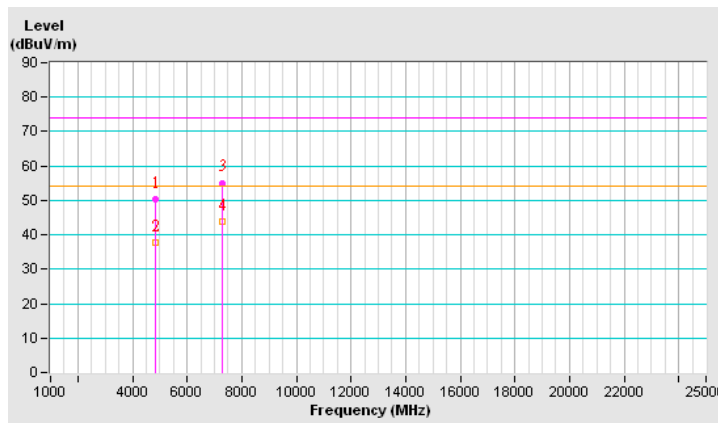


FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 3 / Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4844.00	50.3 PK	74.0	-23.7	1.00 V	42	46.90	3.40
2	4844.00	37.6 AV	54.0	-16.4	1.00 V	42	34.20	3.40
3	7266.00	55.1 PK	74.0	-18.9	1.00 V	136	45.14	9.96
4	7266.00	43.8 AV	54.0	-10.2	1.00 V	136	33.84	9.96

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





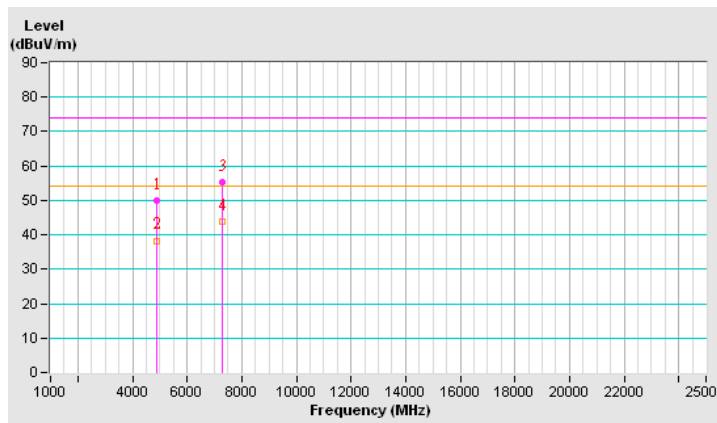
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 6 / Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.1 PK	74.0	-23.9	1.00 H	130	46.70	3.40
2	4874.00	38.3 AV	54.0	-15.7	1.00 H	130	34.90	3.40
3	7311.00	55.4 PK	74.0	-18.6	1.00 H	141	45.38	10.02
4	7311.00	43.7 AV	54.0	-10.3	1.00 H	141	33.68	10.02

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





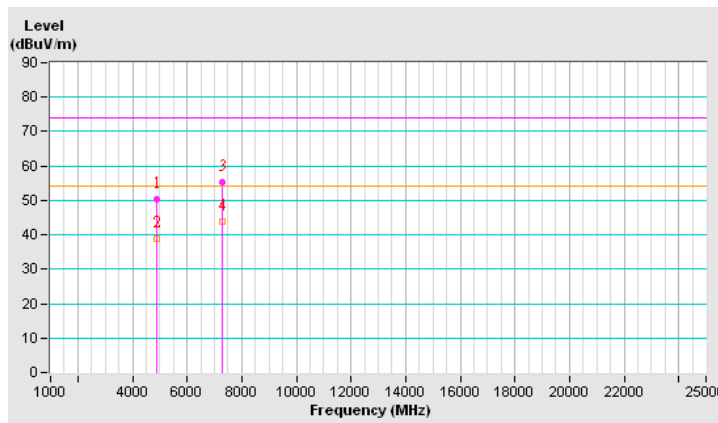
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 6 / Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.2 PK	74.0	-23.8	1.00 V	50	46.80	3.40
2	4874.00	38.9 AV	54.0	-15.1	1.00 V	50	35.50	3.40
3	7311.00	55.3 PK	74.0	-18.7	1.00 V	150	45.28	10.02
4	7311.00	44.0 AV	54.0	-10.0	1.00 V	150	33.98	10.02

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





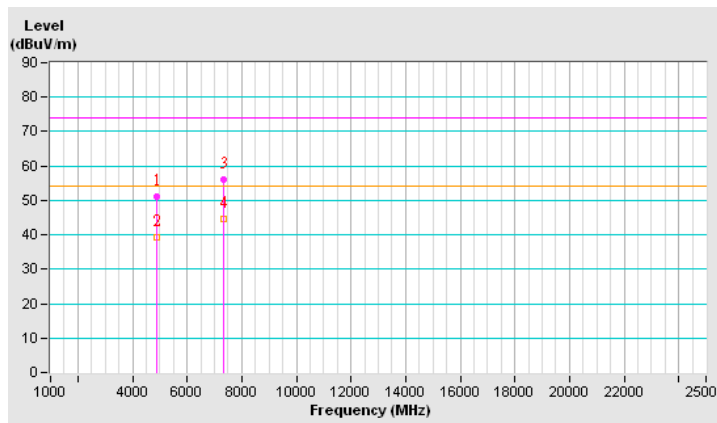
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 9 / Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4904.00	51.1 PK	74.0	-22.9	1.00 H	111	7.83	43.27
2	4904.00	39.2 AV	54.0	-14.8	1.00 H	111	-4.07	43.27
3	7356.00	56.2 PK	74.0	-17.8	1.00 H	216	7.93	48.27
4	7356.00	44.5 AV	54.0	-9.5	1.00 H	216	-3.77	48.27

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





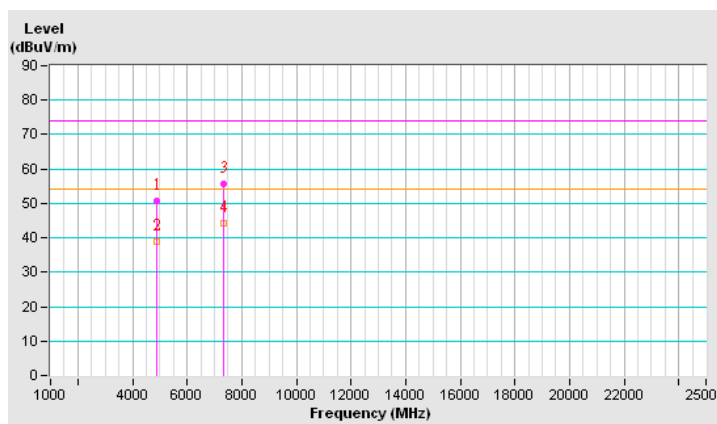
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 9 / Ant.4
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4904.00	50.6 PK	74.0	-23.4	1.00 V	49	7.33	43.27
2	4904.00	38.9 AV	54.0	-15.1	1.00 V	49	-4.37	43.27
3	7356.00	55.7 PK	74.0	-18.3	1.00 V	134	7.43	48.27
4	7356.00	44.2 AV	54.0	-9.8	1.00 V	134	-4.07	48.27

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





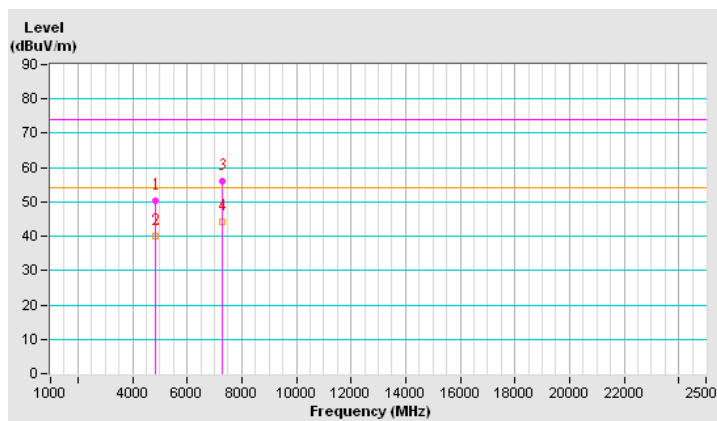
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 3 / Ant.1 + Ant.2
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4844.00	50.2 PK	74.0	-23.8	1.02 H	153	46.80	3.40
2	4844.00	39.9 AV	54.0	-14.1	1.02 H	153	36.50	3.40
3	7266.00	55.9 PK	74.0	-18.1	1.07 H	42	45.94	9.96
4	7266.00	44.1 AV	54.0	-9.9	1.07 H	42	34.14	9.96

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





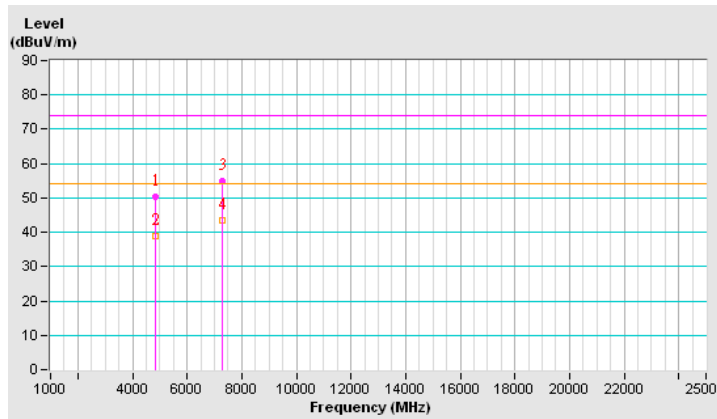
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 3 / Ant.1 + Ant.2
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4844.00	50.4 PK	74.0	-23.6	1.03 V	88	47.00	3.40
2	4844.00	38.9 AV	54.0	-15.1	1.03 V	88	35.50	3.40
3	7266.00	54.8 PK	74.0	-19.2	1.04 V	98	44.84	9.96
4	7266.00	43.5 AV	54.0	-10.5	1.04 V	98	33.54	9.96

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





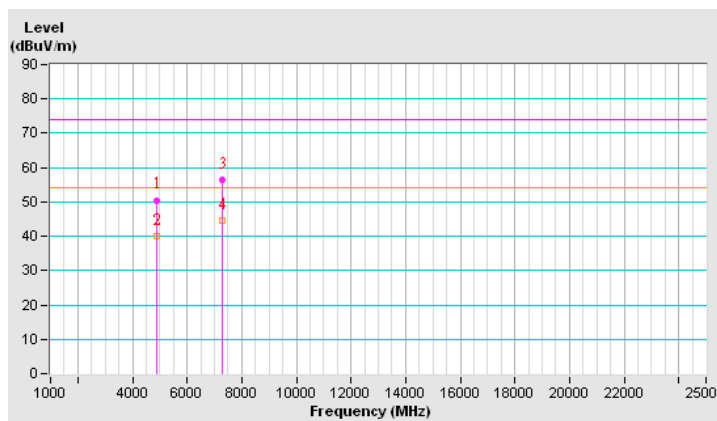
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 6 / Ant.1 + Ant.2
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.5 PK	74.0	-23.5	1.00 H	142	47.10	3.40
2	4874.00	40.0 AV	54.0	-14.0	1.00 H	142	36.60	3.40
3	7311.00	56.3 PK	74.0	-17.7	1.00 H	25	46.28	10.02
4	7311.00	44.5 AV	54.0	-9.5	1.00 H	25	34.48	10.02

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





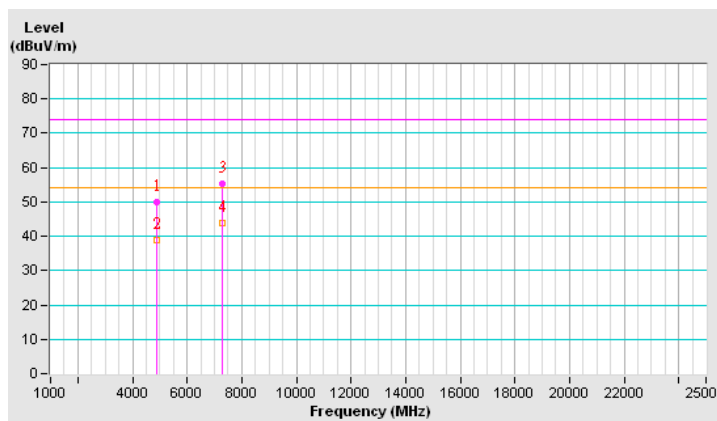
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 6 / Ant.1 + Ant.2
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.1 PK	74.0	-23.9	1.00 V	117	46.70	3.40
2	4874.00	38.9 AV	54.0	-15.1	1.00 V	117	35.50	3.40
3	7311.00	55.3 PK	74.0	-18.7	1.00 V	77	45.28	10.02
4	7311.00	43.7 AV	54.0	-10.3	1.00 V	77	33.68	10.02

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





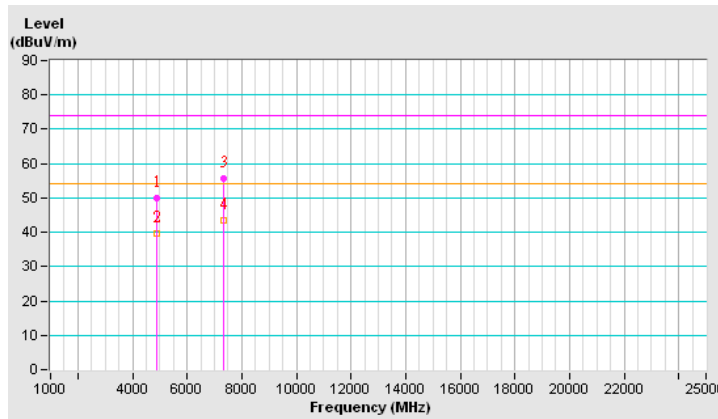
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 9 / Ant.1 + Ant.2
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4904.00	49.9 PK	74.0	-24.1	1.04 H	145	6.63	43.27
2	4904.00	39.7 AV	54.0	-14.3	1.04 H	145	-3.57	43.27
3	7356.00	55.6 PK	74.0	-18.4	1.00 H	23	7.33	48.27
4	7356.00	43.4 AV	54.0	-10.6	1.00 H	23	-4.87	48.27

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





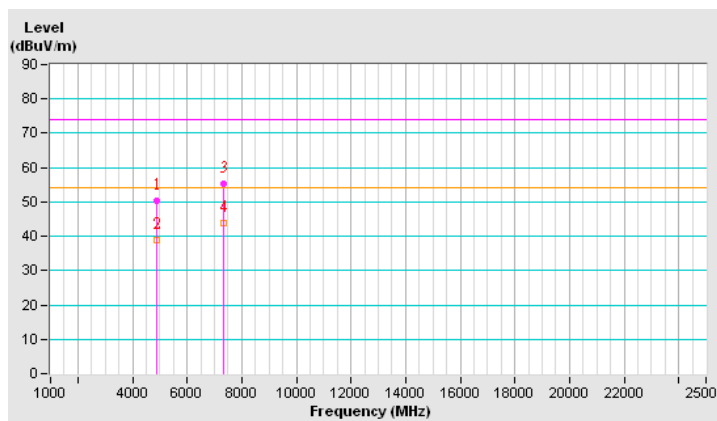
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 9 / Ant.1 + Ant.2
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4904.00	50.3 PK	74.0	-23.7	1.00 V	102	7.03	43.27
2	4904.00	38.8 AV	54.0	-15.2	1.00 V	102	-4.47	43.27
3	7356.00	55.2 PK	74.0	-18.8	1.02 V	89	6.93	48.27
4	7356.00	43.7 AV	54.0	-10.3	1.02 V	89	-4.57	48.27

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





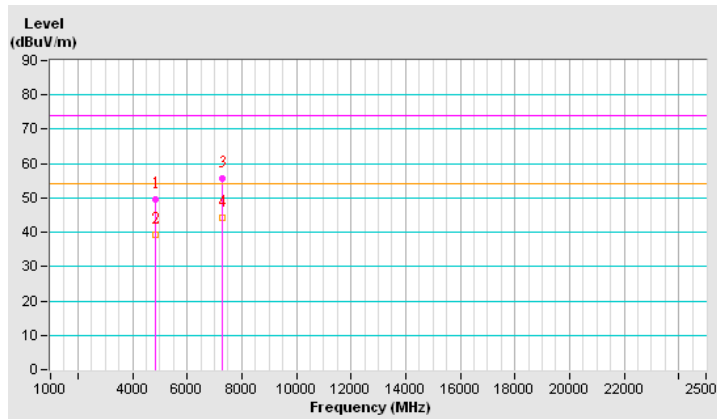
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 3 / Ant.1 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4844.00	49.7 PK	74.0	-24.3	1.09 H	73	46.30	3.40
2	4844.00	39.3 AV	54.0	-14.7	1.09 H	73	35.90	3.40
3	7266.00	55.6 PK	74.0	-18.4	1.12 H	224	45.64	9.96
4	7266.00	44.3 AV	54.0	-9.7	1.12 H	224	34.34	9.96

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





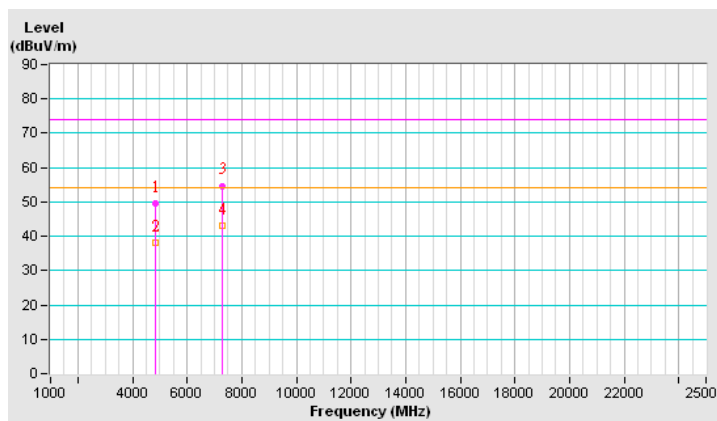
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 3 / Ant.1 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4844.00	49.4 PK	74.0	-24.6	1.06 V	147	46.00	3.40
2	4844.00	38.1 AV	54.0	-15.9	1.06 V	147	34.70	3.40
3	7266.00	54.7 PK	74.0	-19.3	1.00 V	124	44.74	9.96
4	7266.00	43.2 AV	54.0	-10.8	1.00 V	124	33.24	9.96

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





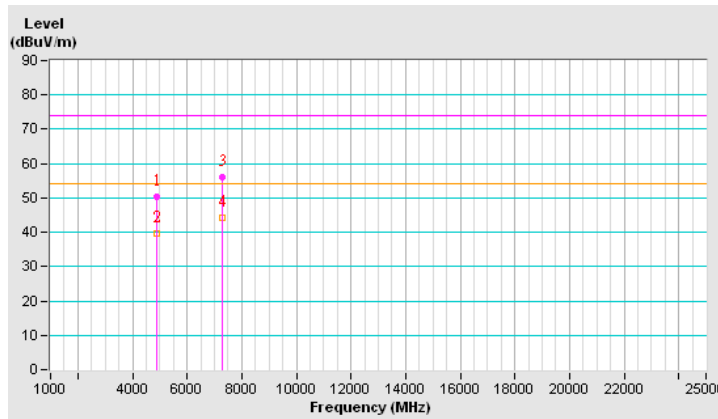
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 6 / Ant.1 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.2 PK	74.0	-23.8	1.07 H	63	46.80	3.40
2	4874.00	39.5 AV	54.0	-14.5	1.07 H	63	36.10	3.40
3	7311.00	55.9 PK	74.0	-18.1	1.08 H	243	45.88	10.02
4	7311.00	44.2 AV	54.0	-9.8	1.08 H	243	34.18	10.02

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





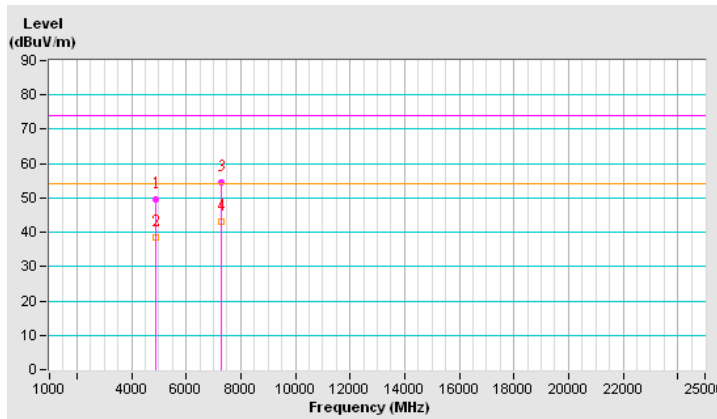
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 6 / Ant.1 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	49.7 PK	74.0	-24.3	1.05 V	144	46.30	3.40
2	4874.00	38.4 AV	54.0	-15.6	1.05 V	144	35.00	3.40
3	7311.00	54.4 PK	74.0	-19.6	1.03 V	139	44.38	10.02
4	7311.00	43.1 AV	54.0	-10.9	1.03 V	139	33.08	10.02

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





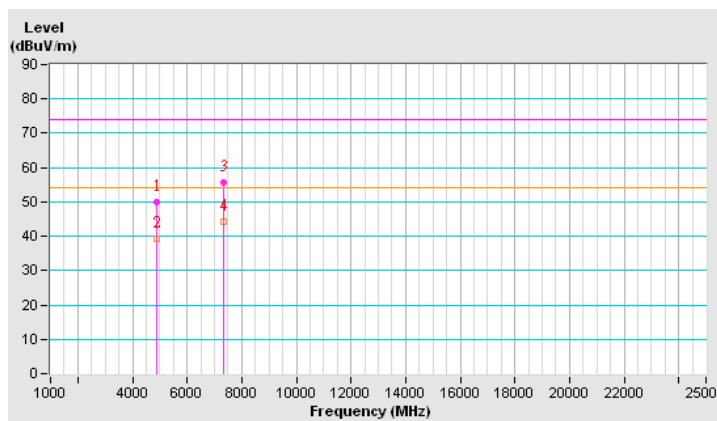
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 9 / Ant.1 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4904.00	49.9 PK	74.0	-24.1	1.09 H	84	46.50	3.40
2	4904.00	39.2 AV	54.0	-14.8	1.09 H	84	35.80	3.40
3	7356.00	55.8 PK	74.0	-18.2	1.10 H	232	45.67	10.13
4	7356.00	44.1 AV	54.0	-9.9	1.10 H	232	33.97	10.13

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





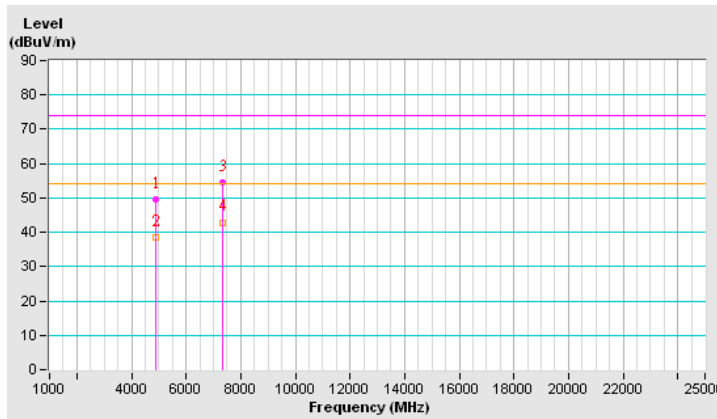
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 9 / Ant.1 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4904.00	49.7 PK	74.0	-24.3	1.01 V	144	46.30	3.40
2	4904.00	38.5 AV	54.0	-15.5	1.01 V	144	35.10	3.40
3	7356.00	54.6 PK	74.0	-19.4	1.02 V	127	44.47	10.13
4	7356.00	42.9 AV	54.0	-11.1	1.02 V	127	32.77	10.13

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





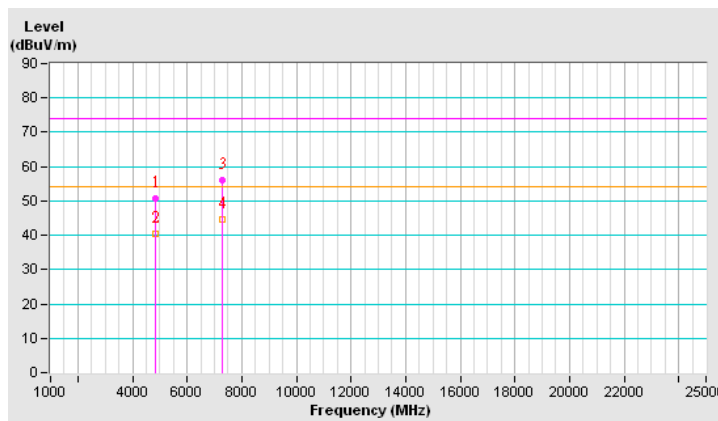
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 3 / Ant.1 + Ant.2 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4844.00	50.8 PK	74.0	-23.2	1.01 H	99	47.40	3.40
2	4844.00	40.3 AV	54.0	-13.7	1.01 H	99	36.90	3.40
3	7266.00	55.9 PK	74.0	-18.1	1.05 H	129	45.94	9.96
4	7266.00	44.6 AV	54.0	-9.4	1.05 H	129	34.64	9.96

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





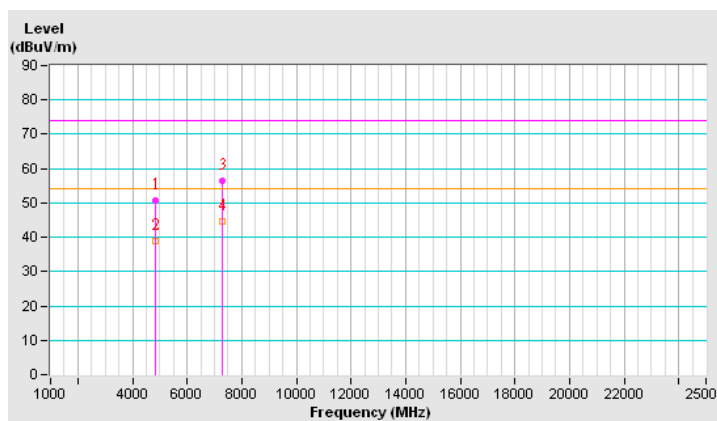
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 3 / Ant.1 + Ant.2 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4844.00	50.6 PK	74.0	-23.4	1.04 V	139	47.20	3.40
2	4844.00	39.0 AV	54.0	-15.0	1.04 V	139	35.60	3.40
3	7266.00	56.3 PK	74.0	-17.7	1.00 V	73	46.34	9.96
4	7266.00	44.7 AV	54.0	-9.3	1.00 V	73	34.74	9.96

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





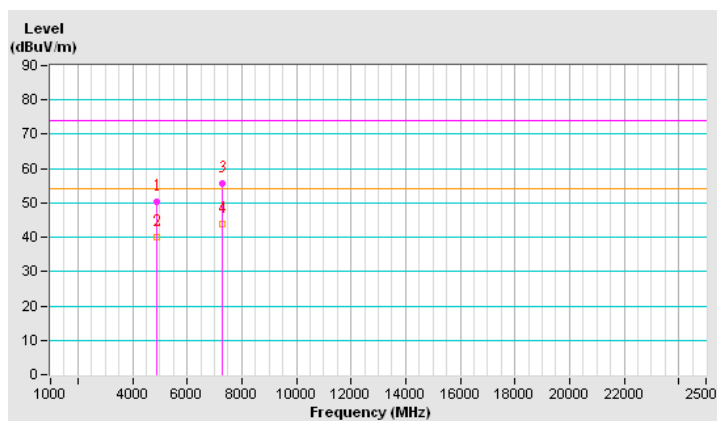
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 6 / Ant.1 + Ant.2 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.4 PK	74.0	-23.6	1.00 H	112	47.00	3.40
2	4874.00	40.1 AV	54.0	-13.9	1.00 H	112	36.70	3.40
3	7311.00	55.7 PK	74.0	-18.3	1.04 H	135	45.68	10.02
4	7311.00	44.0 AV	54.0	-10.0	1.04 H	135	33.98	10.02

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





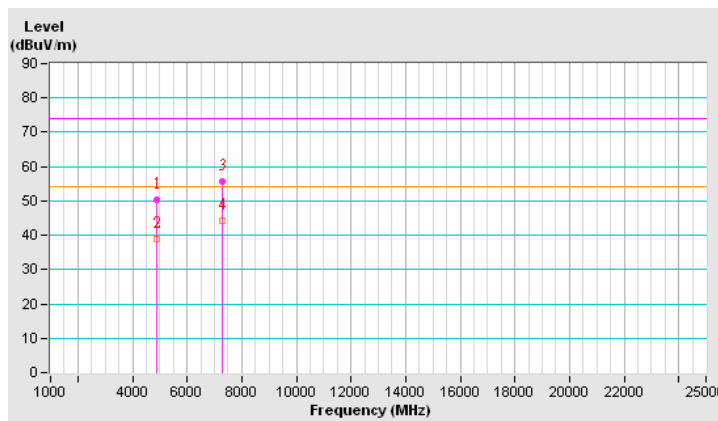
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 6 / Ant.1 + Ant.2 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4874.00	50.2 PK	74.0	-23.8	1.00 V	139	46.80	3.40
2	4874.00	38.8 AV	54.0	-15.2	1.00 V	139	35.40	3.40
3	7311.00	55.8 PK	74.0	-18.2	1.03 V	63	45.78	10.02
4	7311.00	44.2 AV	54.0	-9.8	1.03 V	63	34.18	10.02

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





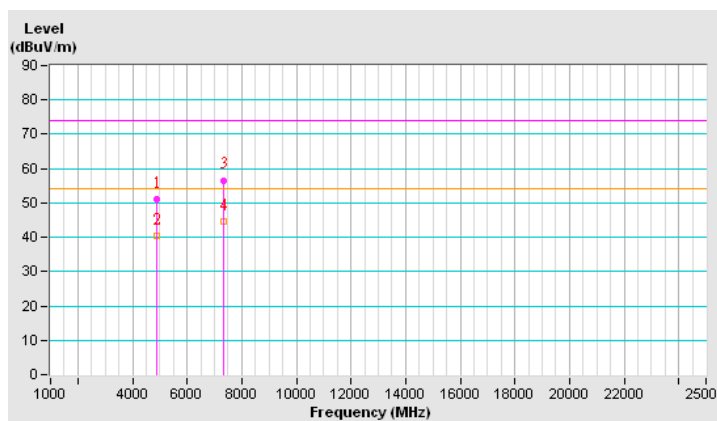
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 9 / Ant.1 + Ant.2 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4904.00	51.1 PK	74.0	-22.9	1.00 H	126	47.70	3.40
2	4904.00	40.3 AV	54.0	-13.7	1.00 H	126	36.90	3.40
3	7356.00	56.6 PK	74.0	-17.4	1.03 H	130	46.47	10.13
4	7356.00	44.7 AV	54.0	-9.3	1.03 H	130	34.57	10.13

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





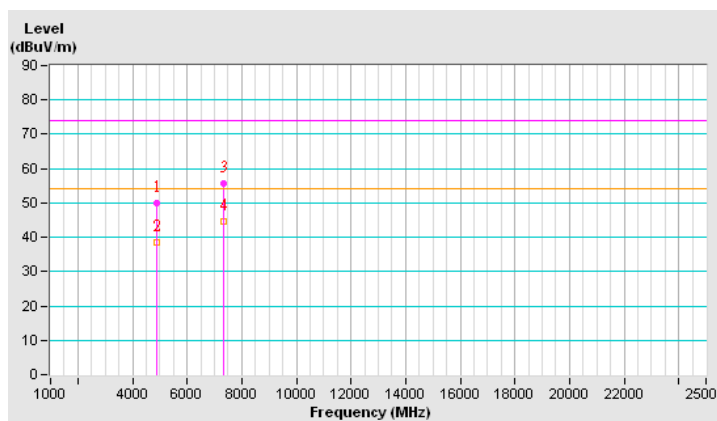
A D T

FREQUENCY RANGE	1GHz~10 th Harmonic	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	66 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 9 / Ant.1 + Ant.2 + Ant.4
FINAL TEST DATE	May 18, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	4904.00	50.0 PK	74.0	-24.0	1.01 V	164	46.60	3.40
2	4904.00	38.6 AV	54.0	-15.4	1.01 V	164	35.20	3.40
3	7356.00	55.8 PK	74.0	-18.2	1.05 V	65	45.67	10.13
4	7356.00	44.5 AV	54.0	-9.5	1.05 V	65	34.37	10.13

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





4.6 BAND EDGE AND FUNDAMENTAL EMISSIONS MEASUREMENT

4.6.1 LIMITS

If maximum conducted output power was used to demonstrate compliance to 15.247(b)(3) requirements, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band average PSD level in 100 kHz. And 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.

Frequency Range (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

4.6.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 6 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Analyzer	Setting
Attenuation	Auto
Span Frequency	100 MHz
Filter type	6dB
RB / VB (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100 kHz /300 kHz for Peak



A D T

4.6.3 TEST PROCEDURES

1. The test procedure is the same as section 4.5.3, only the frequency range investigated is limited to 100MHz around bandedges.
2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

4.6.4 TEST SETUP LAYOUT

This test setup layout is the same as that shown in section 4.5.4.

4.6.5 TEST DEVIATION

There is no deviation with the original standard.

4.6.6 EUT OPERATING DURING TEST

The EUT was programmed to be in continuously transmitting mode.

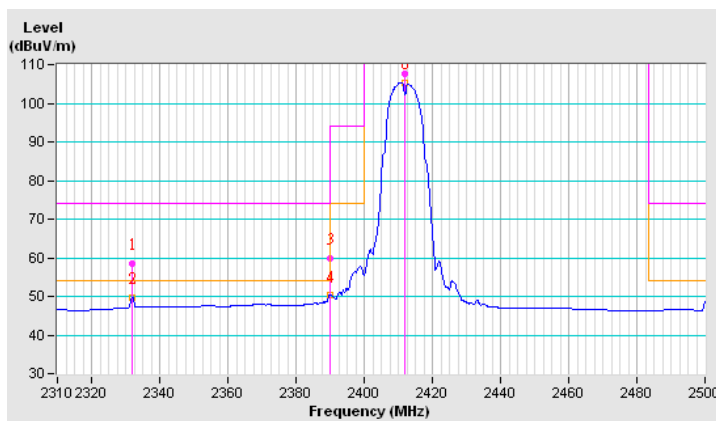
4.6.7 TEST RESULT OF BAND EDGE AND FUNDAMENTAL EMISSIONS

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	26 °C	HUMIDITY	68 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11b CH 1 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2332.00	58.5 PK	74.0	-15.5	1.36 H	78	26.27	32.23
2	2332.00	49.8 AV	54.0	-4.2	1.36 H	78	17.57	32.23
3	2390.00	59.9 PK	74.0	-14.1	1.36 H	78	27.45	32.45
4	2390.00	50.2 AV	54.0	-3.8	1.36 H	78	17.75	32.45
5	*2412.00	107.5 PK			1.36 H	78	74.97	32.53
6	*2412.00	105.3 AV			1.36 H	78	72.77	32.53

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





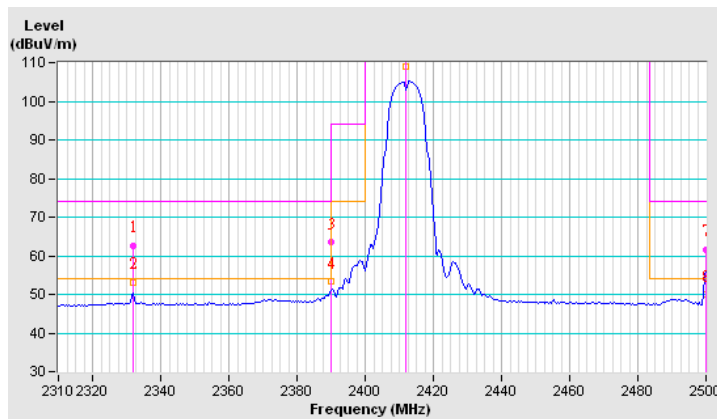
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Tim Ho	CONFIGURATIONS	11b CH 1 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2332.00	62.7 PK	74.0	-11.3	1.05 V	257	30.47	32.23
2	2332.00	53.1 AV	54.0	-0.9	1.05 V	257	20.87	32.23
3	2390.00	63.4 PK	74.0	-10.6	1.00 V	271	30.95	32.45
4	2390.00	53.3 AV	54.0	-0.7	1.00 V	271	20.85	32.45
5	*2412.00	111.2 PK			1.00 V	263	78.67	32.53
6	*2412.00	109.1 AV			1.00 V	263	76.57	32.53
7	2500.00	61.5 PK	74.0	-12.5	1.22 V	75	28.65	32.85
8	2500.00	49.9 AV	54.0	-4.1	1.22 V	75	17.05	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





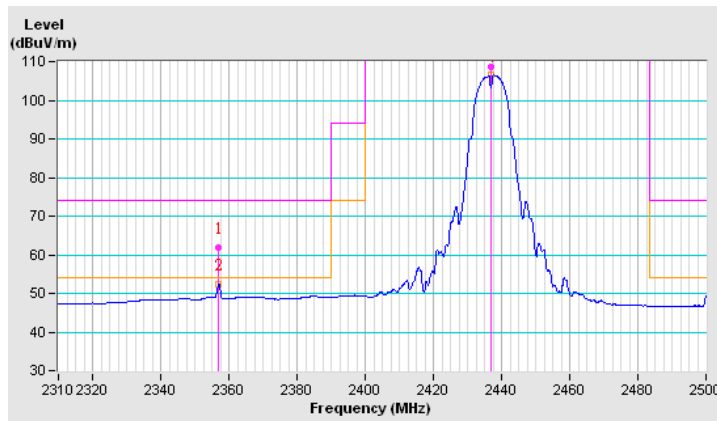
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	26 °C	HUMIDITY	68 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11b CH 6 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2357.00	61.9 PK	74.0	-12.1	1.36 H	77	29.58	32.32
2	2357.00	52.5 AV	54.0	-1.5	1.36 H	77	20.18	32.32
3	*2437.00	108.6 PK			1.35 H	77	75.98	32.62
4	*2437.00	106.5 AV			1.35 H	77	73.88	32.62

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





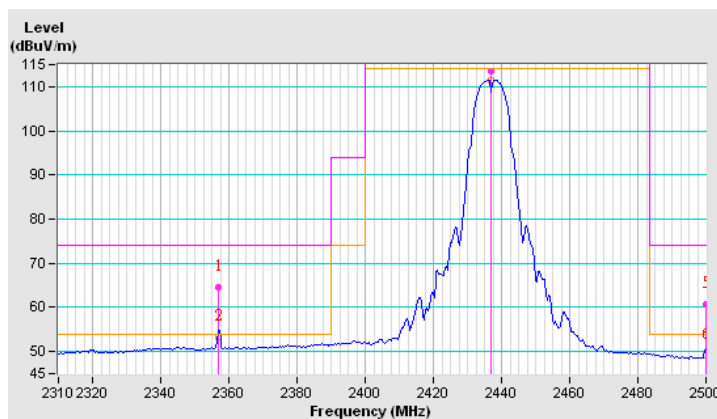
A D T

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Tim Ho	CONFIGURATIONS	11b CH 6 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2356.90	64.7 PK	74.0	-9.3	1.34 V	14	32.38	32.32
2	2356.90	53.4 AV	54.0	-0.6	1.34 V	14	21.08	32.32
3	*2437.00	113.4 PK			1.00 V	300	80.78	32.62
4	*2437.00	111.4 AV			1.00 V	300	78.78	32.62
5	2500.00	60.8 PK	74.0	-13.2	1.00 V	4	27.95	32.85
6	2500.00	49.2 AV	54.0	-4.8	1.00 V	4	16.35	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





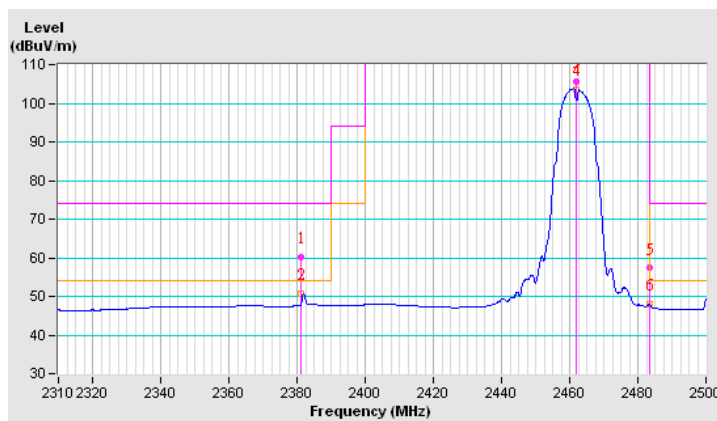
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	26 °C	HUMIDITY	68 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11b CH 11 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2381.00	60.1 PK	74.0	-13.9	1.41 H	75	27.68	32.42
2	2381.00	50.6 AV	54.0	-3.4	1.41 H	75	18.18	32.42
3	*2462.00	105.7 PK			1.40 H	71	72.99	32.71
4	*2462.00	103.5 AV			1.40 H	71	70.79	32.71
5	2483.50	57.3 PK	74.0	-16.7	1.40 H	72	24.51	32.79
6	2483.50	48.1 AV	54.0	-5.9	1.40 H	72	15.31	32.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





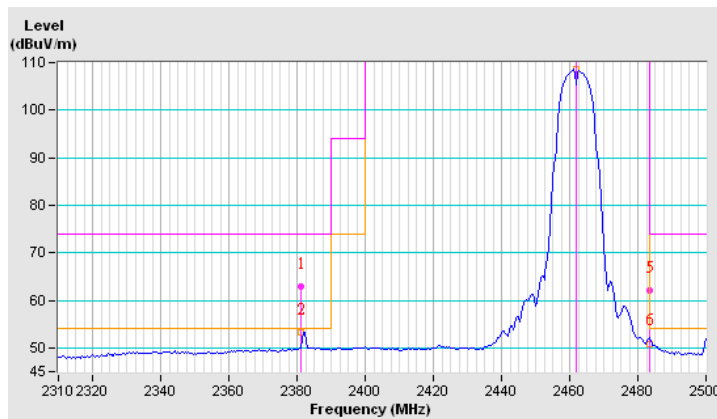
A D T

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Tim Ho	CONFIGURATIONS	11b CH 11 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2381.00	62.8 PK	74.0	-11.2	1.00 V	260	30.38	32.42
2	2381.00	53.2 AV	54.0	-0.8	1.00 V	260	20.78	32.42
3	*2462.00	110.8 PK			1.00 V	261	78.09	32.71
4	*2462.00	108.5 AV			1.00 V	261	75.79	32.71
5	2483.50	62.0 PK	74.0	-12.0	1.00 V	260	29.21	32.79
6	2483.50	50.9 AV	54.0	-3.1	1.00 V	260	18.11	32.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.

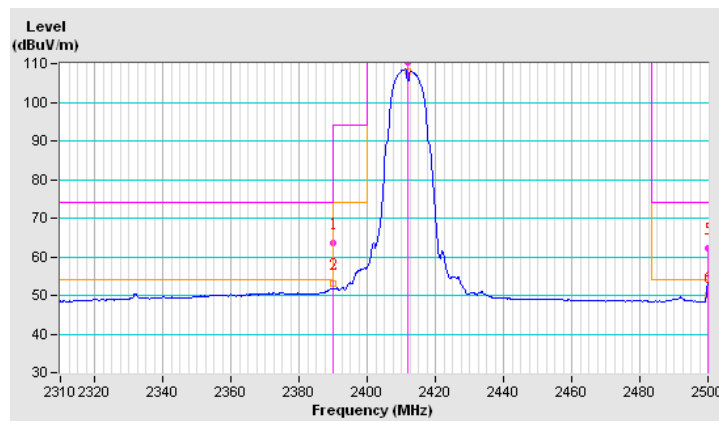


FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11b CH 1 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.6 PK	74.0	-10.4	1.07 H	43	30.07	33.53
2	2390.00	53.0 AV	54.0	-1.0	1.07 H	43	19.47	33.53
3	*2412.00	110.3 PK			1.07 H	47	76.71	33.59
4	*2412.00	108.1 AV			1.07 H	47	74.51	33.59
5	2500.00	62.3 PK	74.0	-11.7	1.45 H	43	28.44	33.86
6	2500.00	49.9 AV	54.0	-4.1	1.45 H	43	16.04	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.

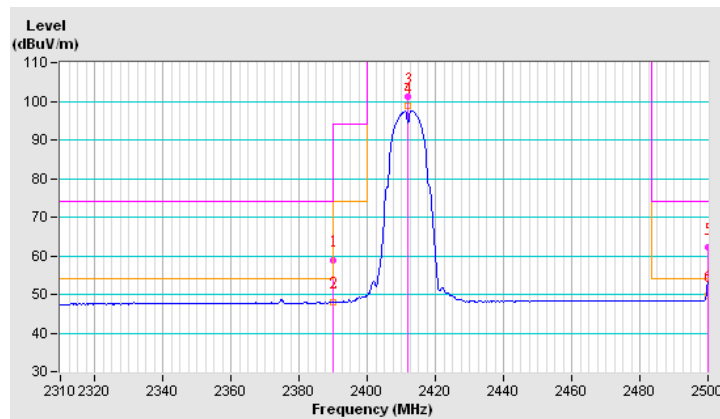


FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11b CH 1 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.9 PK	74.0	-15.1	1.00 V	261	25.37	33.53
2	2390.00	47.9 AV	54.0	-6.1	1.00 V	261	14.37	33.53
3	*2412.00	101.1 PK			1.00 V	261	67.51	33.59
4	*2412.00	98.7 AV			1.00 V	261	65.11	33.59
5	2500.00	62.1 PK	74.0	-11.9	1.00 V	86	28.24	33.86
6	2500.00	49.8 AV	54.0	-4.2	1.00 V	86	15.94	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





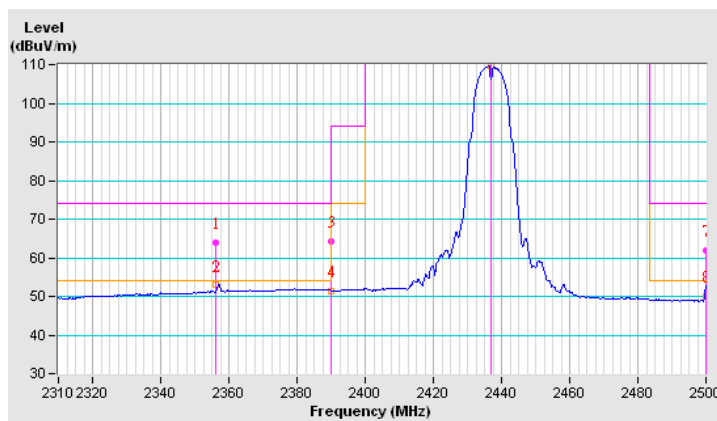
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FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11b CH 6 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2356.00	63.9 PK	74.0	-10.1	1.30 H	257	30.48	33.42
2	2356.00	52.9 AV	54.0	-1.1	1.30 H	257	19.48	33.42
3	2390.00	64.2 PK	74.0	-9.8	1.07 H	44	30.67	33.53
4	2390.00	51.4 AV	54.0	-2.6	1.07 H	44	17.87	33.53
5	*2437.00	111.9 PK			1.07 H	44	78.23	33.67
6	*2437.00	109.6 AV			1.07 H	44	75.93	33.67
7	2500.00	62.0 PK	74.0	-12.0	1.07 H	44	28.14	33.86
8	2500.00	50.1 AV	54.0	-3.9	1.07 H	44	16.24	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.

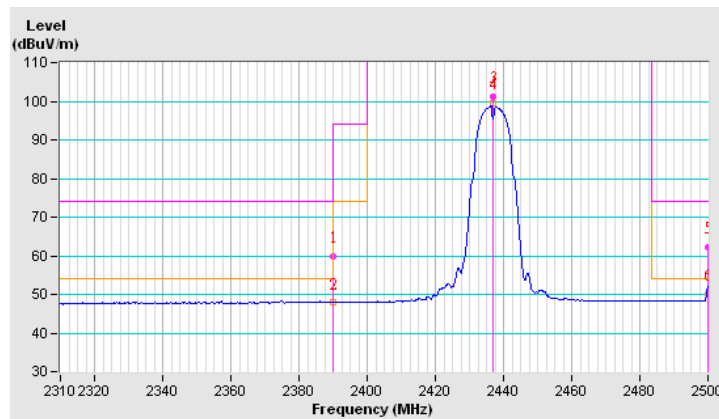


FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11b CH 6 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.9 PK	74.0	-14.1	1.00 V	332	26.37	33.53
2	2390.00	47.8 AV	54.0	-6.2	1.00 V	332	14.27	33.53
3	*2437.00	101.2 PK			1.00 V	345	67.53	33.67
4	*2437.00	99.6 AV			1.00 V	345	65.93	33.67
5	2500.00	62.3 PK	74.0	-11.7	1.00 V	83	28.44	33.86
6	2500.00	50.1 AV	54.0	-3.9	1.00 V	83	16.24	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





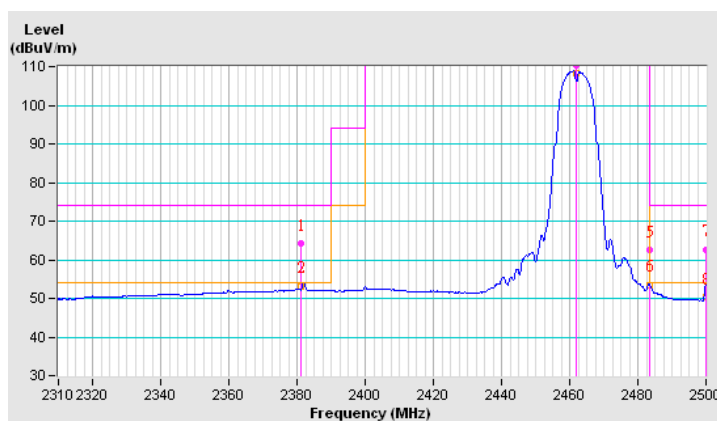
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FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11b CH 11 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2381.00	64.1 PK	74.0	-9.9	1.28 H	28	30.60	33.50
2	2381.00	53.1 AV	54.0	-0.9	1.28 H	28	19.60	33.50
3	*2462.00	110.4 PK			1.04 H	46	76.66	33.74
4	*2462.00	108.2 AV			1.04 H	46	74.46	33.74
5	2483.50	62.4 PK	74.0	-11.6	1.04 H	46	28.59	33.81
6	2483.50	53.5 AV	54.0	-0.5	1.04 H	46	19.69	33.81
7	2500.00	62.5 PK	74.0	-11.5	1.45 H	41	28.64	33.86
8	2500.00	50.2 AV	54.0	-3.8	1.45 H	41	16.34	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





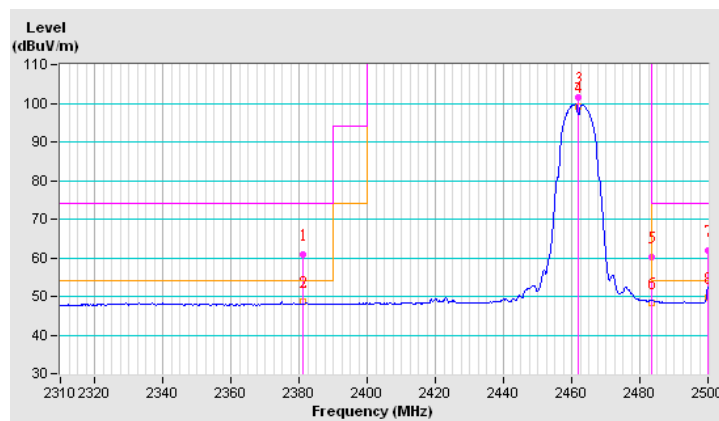
A D T

FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11b CH 11 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2381.00	60.9 PK	74.0	-13.1	1.00 V	254	27.40	33.50
2	2381.00	48.6 AV	54.0	-5.4	1.00 V	254	15.10	33.50
3	*2462.00	101.6 PK			1.00 V	345	67.86	33.74
4	*2462.00	99.2 AV			1.00 V	345	65.46	33.74
5	2483.50	60.1 PK	74.0	-13.9	1.00 V	345	26.29	33.81
6	2483.50	48.4 AV	54.0	-5.6	1.00 V	345	14.59	33.81
7	2500.00	61.8 PK	74.0	-12.2	1.00 V	83	27.94	33.86
8	2500.00	49.7 AV	54.0	-4.3	1.00 V	83	15.84	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.

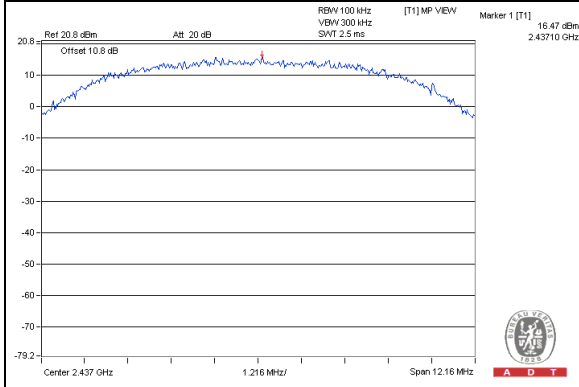




A D T

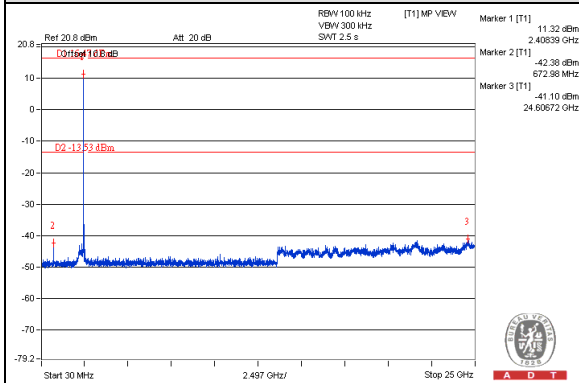
802.11b / Ant.1 & Ant.4 (Reference Level)

Maximum REF

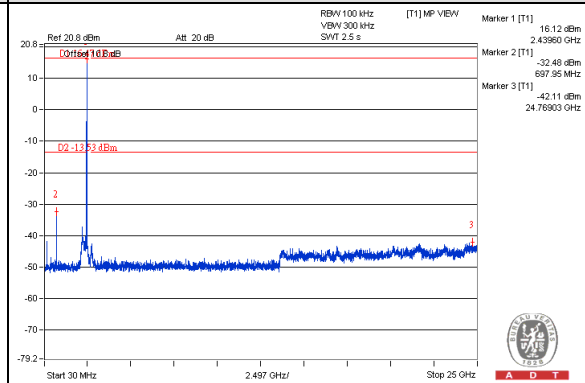


802.11b (down 30dBc) / Ant.1 <CH1/CH6> & Ant.4 <CH11>

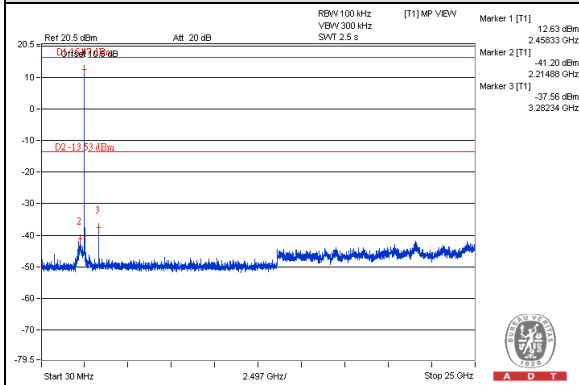
CH 1



CH 6



CH 11





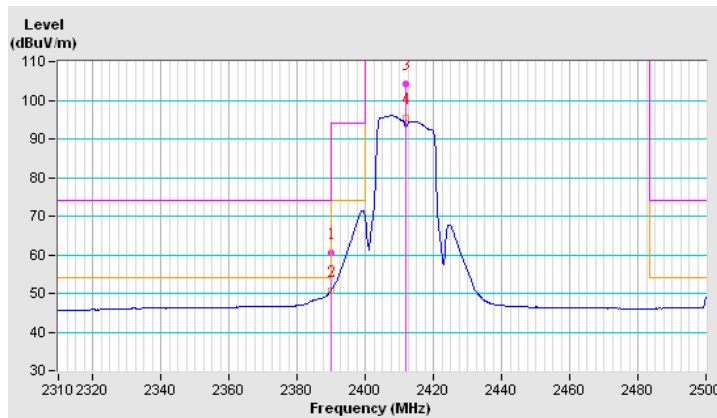
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	26 °C	HUMIDITY	68 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 1 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	60.5 PK	74.0	-13.5	1.36 H	78	28.05	32.45
2	2390.00	50.7 AV	54.0	-3.3	1.36 H	78	18.25	32.45
3	*2412.00	104.4 PK			1.36 H	79	71.87	32.53
4	*2412.00	95.4 AV			1.36 H	79	62.87	32.53

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





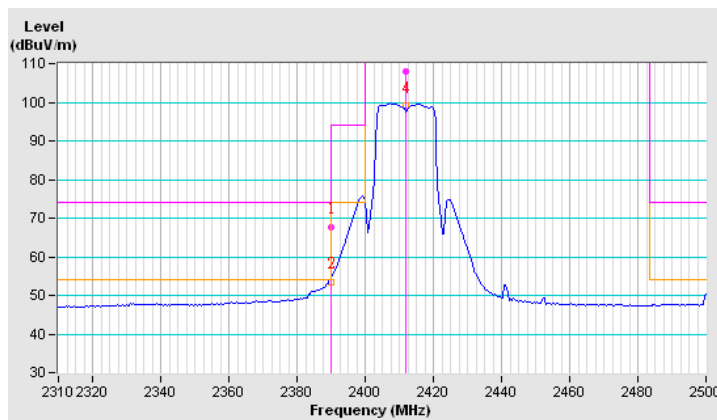
A D T

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Tim Ho	CONFIGURATIONS	11g CH 1 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.7 PK	74.0	-6.3	1.00 V	261	35.25	32.45
2	2390.00	53.4 AV	54.0	-0.6	1.00 V	261	20.95	32.45
3	*2412.00	108.0 PK			1.00 V	261	75.47	32.53
4	*2412.00	99.0 AV			1.00 V	261	66.47	32.53

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





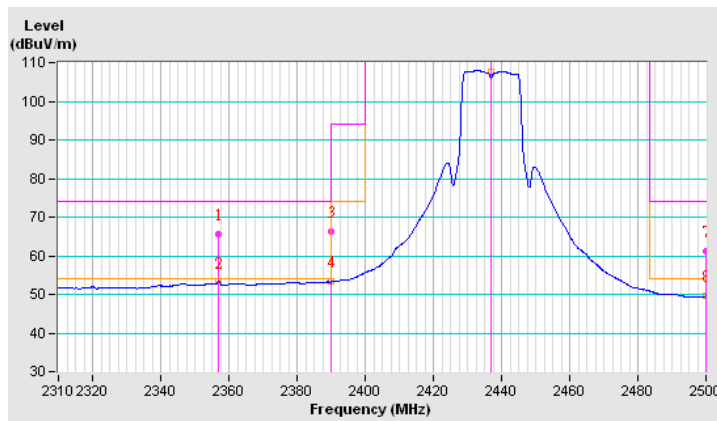
A D T

FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 6 / Ant.2

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2357.00	65.7 PK	74.0	-8.3	1.15 H	138	33.38	32.32
2	2357.00	53.3 AV	54.0	-0.7	1.15 H	138	20.98	32.32
3	2390.00	66.2 PK	74.0	-7.8	1.11 H	136	33.75	32.45
4	2390.00	53.5 AV	54.0	-0.5	1.11 H	136	21.05	32.45
5	*2437.00	116.5 PK			1.11 H	136	83.88	32.62
6	*2437.00	107.5 AV			1.11 H	136	74.88	32.62
7	2500.00	61.3 PK	74.0	-12.7	1.00 H	46	28.45	32.85
8	2500.00	49.6 AV	54.0	-4.4	1.00 H	46	16.75	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





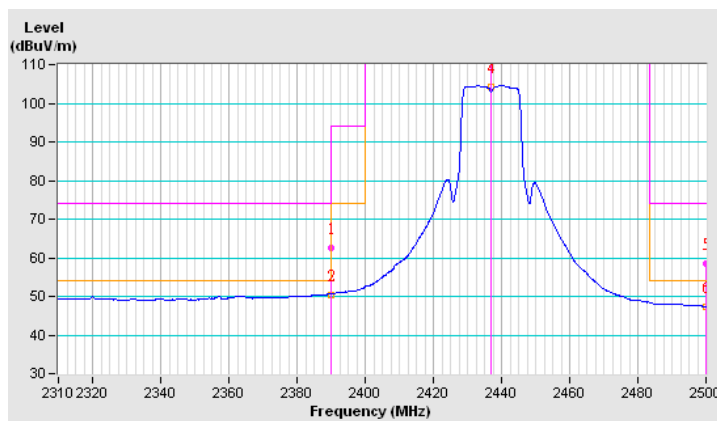
A D T

FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 6 / Ant.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.6 PK	74.0	-11.4	1.00 V	158	30.15	32.45
2	2390.00	50.5 AV	54.0	-3.5	1.00 V	158	18.05	32.45
3	*2437.00	113.3 PK			1.00 V	158	80.68	32.62
4	*2437.00	104.4 AV			1.00 V	158	71.78	32.62
5	2500.00	58.5 PK	74.0	-15.5	1.00 V	87	25.65	32.85
6	2500.00	47.3 AV	54.0	-6.7	1.00 V	87	14.45	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





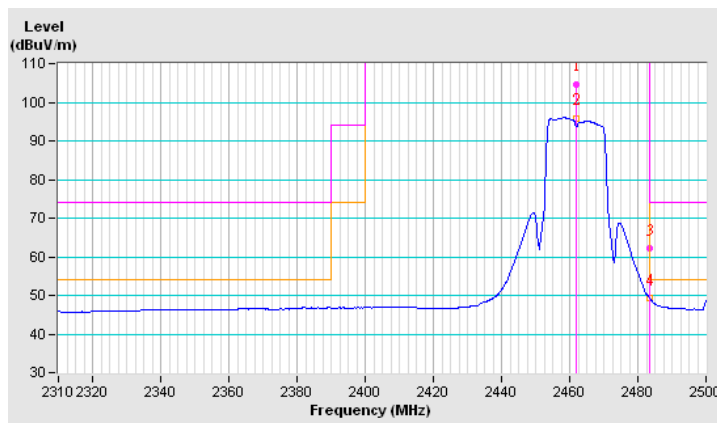
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	26 °C	HUMIDITY	68 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 11 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	104.6 PK			1.42 H	69	71.89	32.71
2	*2462.00	95.9 AV			1.42 H	69	63.19	32.71
3	2483.50	62.1 PK	74.0	-11.9	1.36 H	78	29.31	32.79
4	2483.50	49.2 AV	54.0	-4.8	1.36 H	78	16.41	32.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





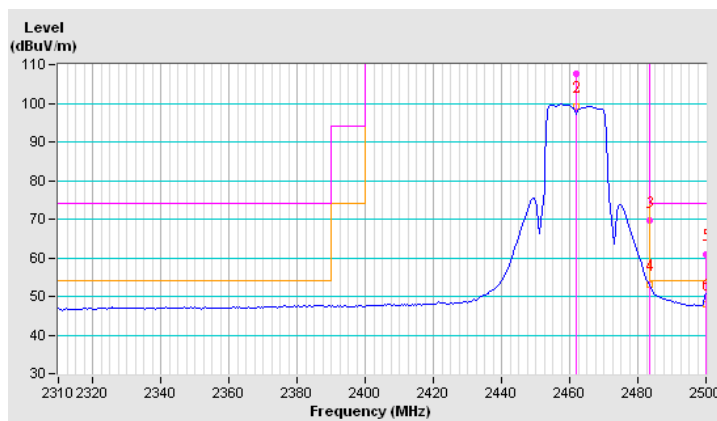
A D T

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Tim Ho	CONFIGURATIONS	11g CH 11 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.6 PK			1.30 V	356	74.89	32.71
2	*2462.00	99.3 AV			1.30 V	356	66.59	32.71
3	2483.50	69.5 PK	74.0	-4.5	1.00 V	264	36.71	32.79
4	2483.50	53.0 AV	54.0	-1.0	1.00 V	264	20.21	32.79
5	2500.00	60.8 PK	74.0	-13.2	1.26 V	335	27.95	32.85
6	2500.00	48.0 AV	54.0	-6.0	1.26 V	335	15.15	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





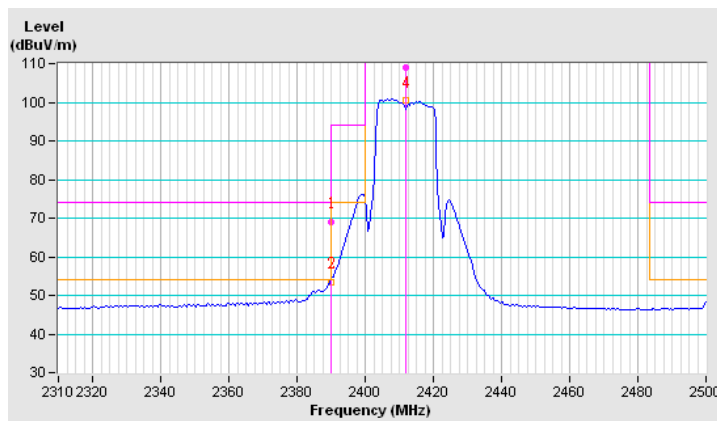
A D T

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 1 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	68.9 PK	74.0	-5.1	1.08 H	48	36.45	32.45
2	2390.00	53.4 AV	54.0	-0.6	1.08 H	48	20.95	32.45
3	*2412.00	109.1 PK			1.08 H	48	76.57	32.53
4	*2412.00	100.4 AV			1.08 H	48	67.87	32.53

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





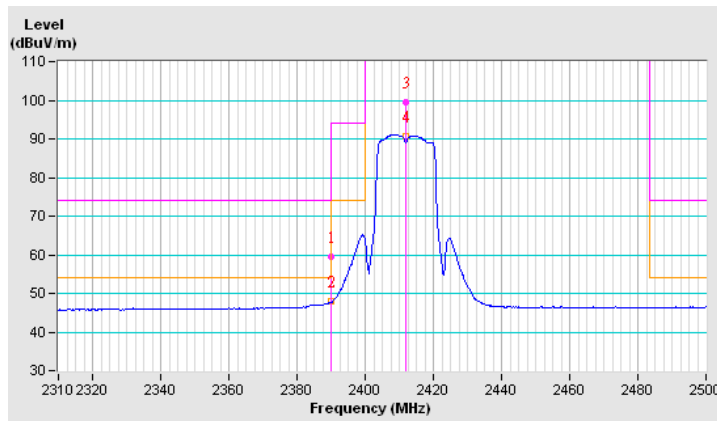
A D T

FINAL TEST DATE	May 18, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 1 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.5 PK	74.0	-14.5	1.27 V	273	27.05	32.45
2	2390.00	47.9 AV	54.0	-6.1	1.27 V	273	15.45	32.45
3	*2412.00	99.6 PK			1.00 V	340	67.07	32.53
4	*2412.00	90.6 AV			1.00 V	340	58.07	32.53

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





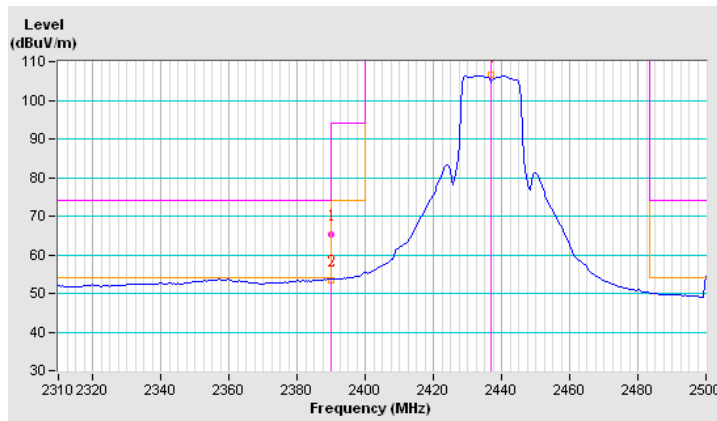
A D T

FINAL TEST DATE	May 08, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 6 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.2 PK	74.0	-8.8	1.09 H	47	31.67	33.53
2	2390.00	53.4 AV	54.0	-0.6	1.09 H	47	19.87	33.53
3	*2437.00	115.5 PK			1.09 H	47	81.83	33.67
4	*2437.00	106.5 AV			1.09 H	47	72.83	33.67

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





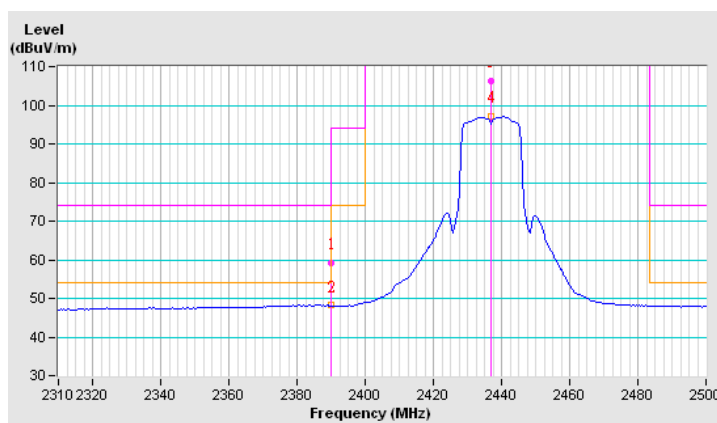
A D T

FINAL TEST DATE	May 08, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 6 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.1 PK	74.0	-14.9	1.00 V	327	25.57	33.53
2	2390.00	48.2 AV	54.0	-5.8	1.00 V	327	14.67	33.53
3	*2437.00	106.3 PK			1.00 V	327	72.63	33.67
4	*2437.00	97.2 AV			1.00 V	327	63.53	33.67

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.

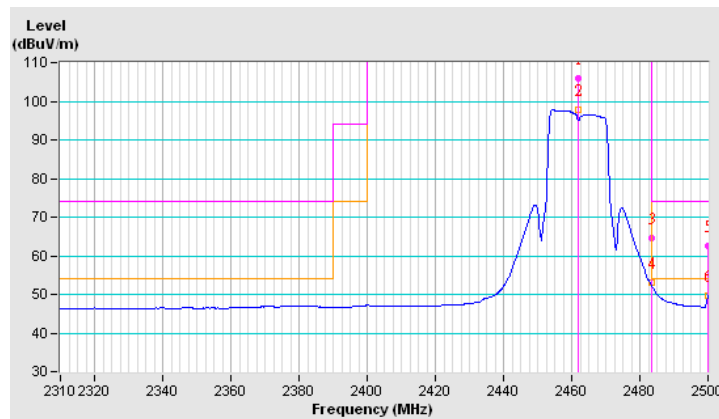


FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 11 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	106.1 PK			1.07 H	46	73.39	32.71
2	*2462.00	97.8 AV			1.07 H	46	65.09	32.71
3	2483.50	64.6 PK	74.0	-9.4	1.07 H	46	31.81	32.79
4	2483.50	53.2 AV	54.0	-0.8	1.07 H	46	20.41	32.79
5	2500.00	62.5 PK	74.0	-11.5	1.00 H	44	29.65	32.85
6	2500.00	49.8 AV	54.0	-4.2	1.00 H	44	16.95	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





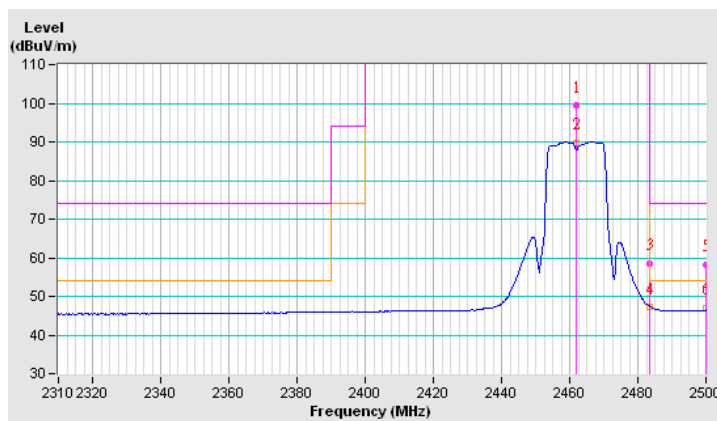
A D T

FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11g CH 11 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	99.4 PK			1.02 V	342	66.69	32.71
2	*2462.00	89.8 AV			1.02 V	342	57.09	32.71
3	2483.50	58.4 PK	74.0	-15.6	1.02 V	342	25.61	32.79
4	2483.50	47.2 AV	54.0	-6.8	1.02 V	342	14.41	32.79
5	2500.00	58.3 PK	74.0	-15.7	1.00 V	82	25.45	32.85
6	2500.00	47.1 AV	54.0	-6.9	1.00 V	82	14.25	32.85

REMARKS:

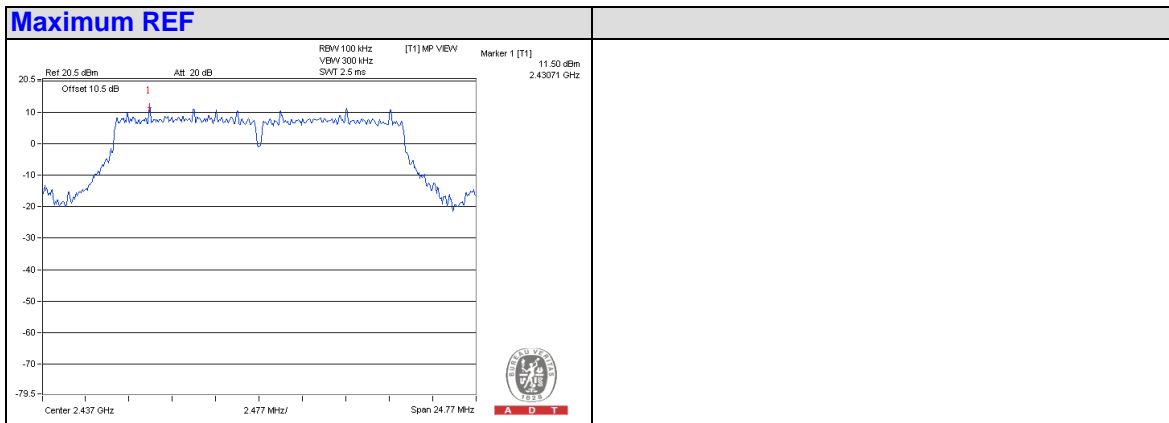
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.



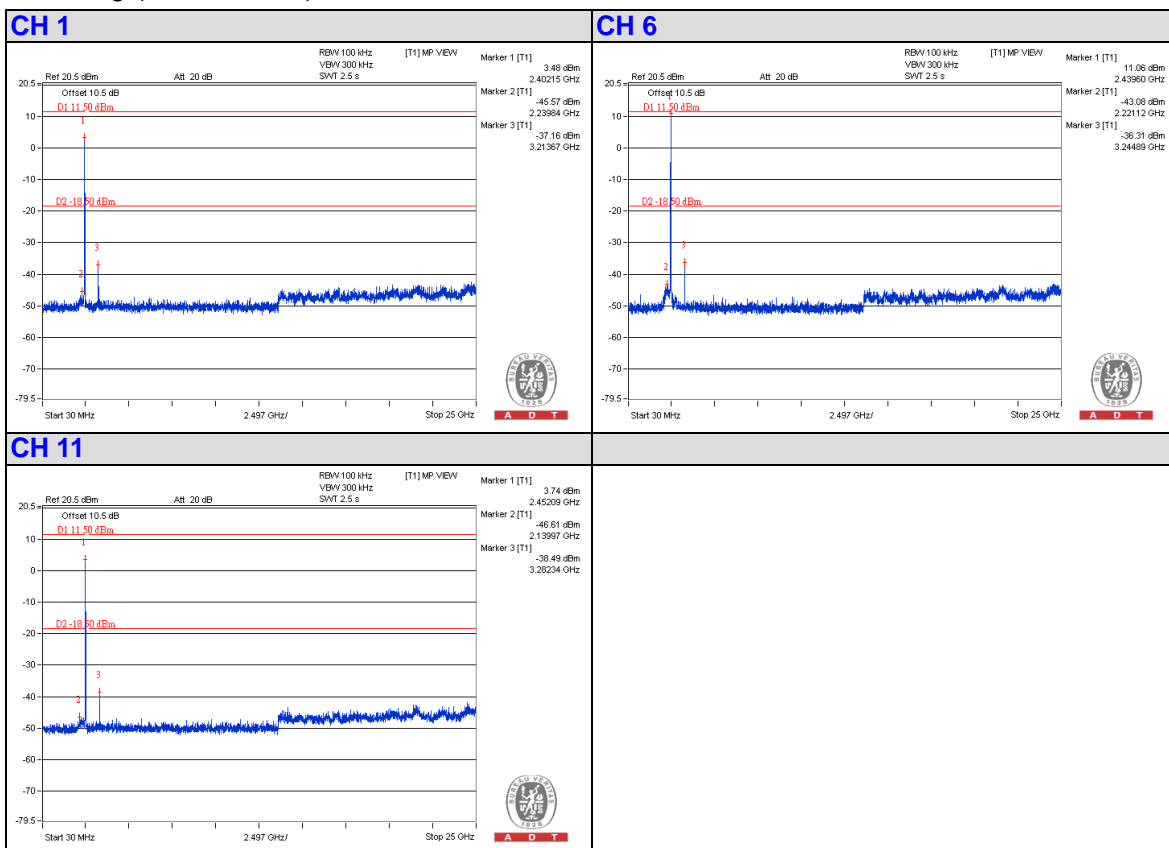


A D T

802.11g / Ant 4 (Reference Level)



802.11g (down 30dBc) / Ant.4





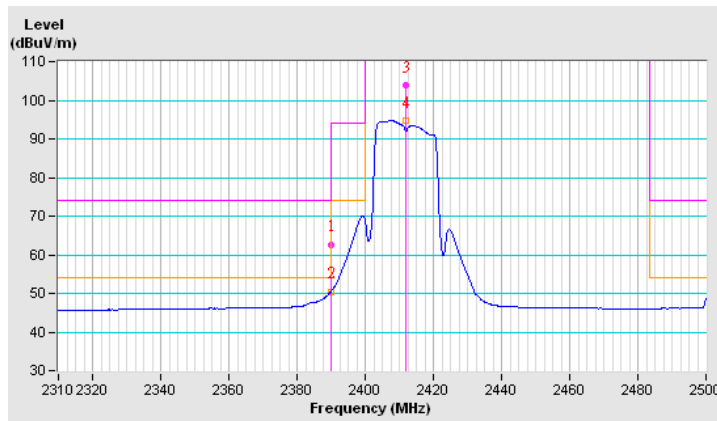
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	26 °C	HUMIDITY	68 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 1 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.7 PK	74.0	-11.3	1.36 H	70	30.25	32.45
2	2390.00	50.4 AV	54.0	-3.6	1.36 H	70	17.95	32.45
3	*2412.00	103.8 PK			1.35 H	74	71.27	32.53
4	*2412.00	94.6 AV			1.35 H	74	62.07	32.53

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





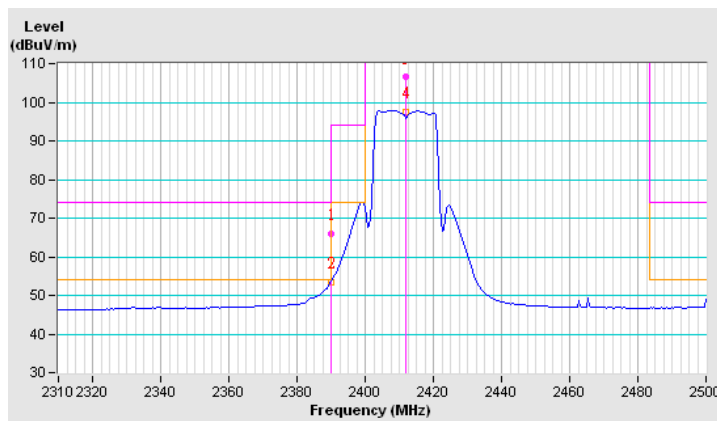
A D T

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 1 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.9 PK	74.0	-8.1	1.03 V	264	33.45	32.45
2	2390.00	53.5 AV	54.0	-0.5	1.03 V	264	21.05	32.45
3	*2412.00	106.5 PK			1.03 V	263	73.97	32.53
4	*2412.00	97.6 AV			1.03 V	263	65.07	32.53

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





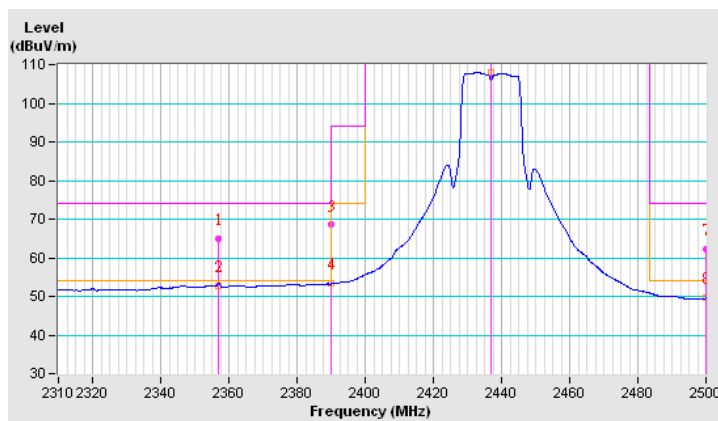
A D T

FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 6 / Ant.2

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2357.00	64.9 PK	74.0	-9.1	1.15 H	138	32.58	32.32
2	2357.00	52.8 AV	54.0	-1.2	1.15 H	138	20.48	32.32
3	2390.00	68.5 PK	74.0	-5.5	1.12 H	137	36.05	32.45
4	2390.00	53.5 AV	54.0	-0.5	1.12 H	137	21.05	32.45
5	*2437.00	116.8 PK			1.12 H	137	84.18	32.62
6	*2437.00	108.0 AV			1.12 H	137	75.38	32.62
7	2500.00	62.3 PK	74.0	-11.7	1.00 H	44	29.45	32.85
8	2500.00	49.7 AV	54.0	-4.3	1.00 H	44	16.85	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





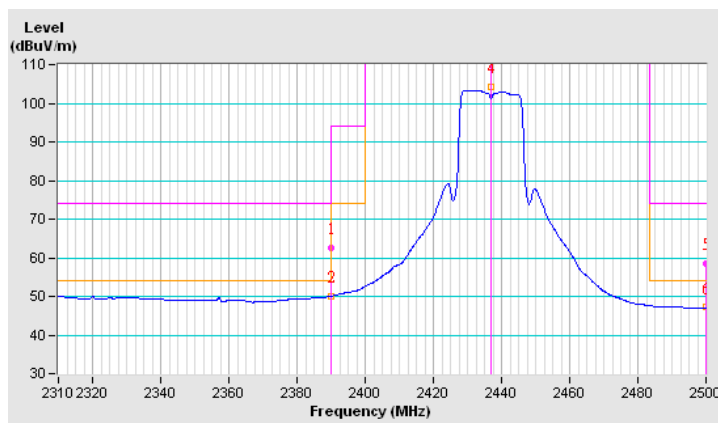
A D T

FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 6 / Ant.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.7 PK	74.0	-11.3	1.00 V	188	30.25	32.45
2	2390.00	50.1 AV	54.0	-3.9	1.00 V	188	17.65	32.45
3	*2437.00	113.4 PK			1.00 V	188	80.78	32.62
4	*2437.00	104.2 AV			1.00 V	188	71.58	32.62
5	2500.00	58.6 PK	74.0	-15.4	1.00 V	86	25.75	32.85
6	2500.00	47.2 AV	54.0	-6.8	1.00 V	86	14.35	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





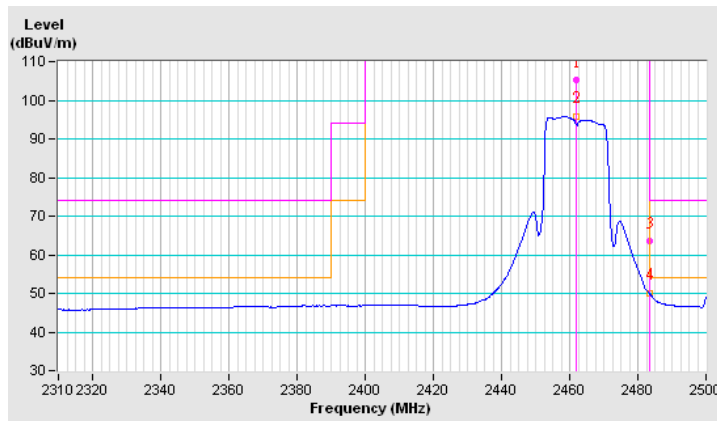
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	26 °C	HUMIDITY	68 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 11 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	105.1 PK			1.41 H	73	72.39	32.71
2	*2462.00	95.8 AV			1.41 H	73	63.09	32.71
3	2483.50	63.4 PK	74.0	-10.6	1.39 H	71	30.61	32.79
4	2483.50	50.1 AV	54.0	-3.9	1.39 H	71	17.31	32.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





A D T

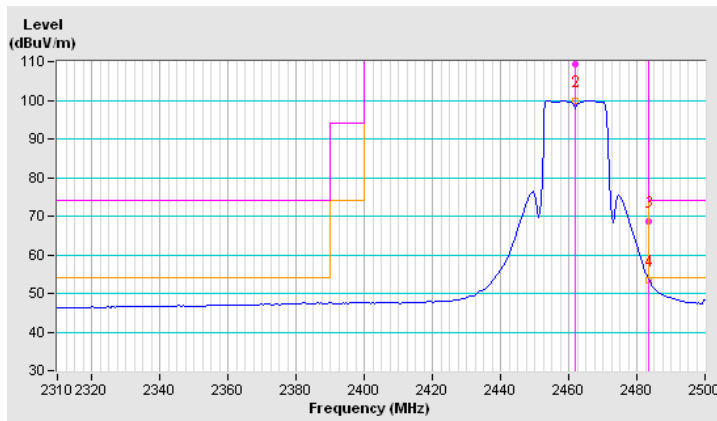
FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 11 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	109.3 PK			1.00 V	264	76.59	32.71
2	*2462.00	99.8 AV			1.00 V	264	67.09	32.71
3	2483.50	68.6 PK	74.0	-5.4	1.00 V	262	35.81	32.79
4	2483.50	53.4 AV	54.0	-0.6	1.00 V	262	20.61	32.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





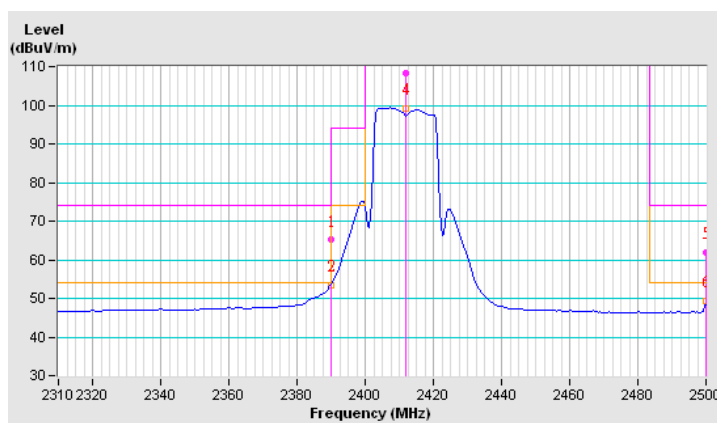
A D T

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 1 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.1 PK	74.0	-8.9	1.09 H	44	32.65	32.45
2	2390.00	53.4 AV	54.0	-0.6	1.09 H	44	20.95	32.45
3	*2412.00	108.3 PK			1.09 H	45	75.77	32.53
4	*2412.00	99.2 AV			1.09 H	45	66.67	32.53
5	2500.00	62.0 PK	74.0	-12.0	1.42 H	44	29.15	32.85
6	2500.00	49.4 AV	54.0	-4.6	1.42 H	44	16.55	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





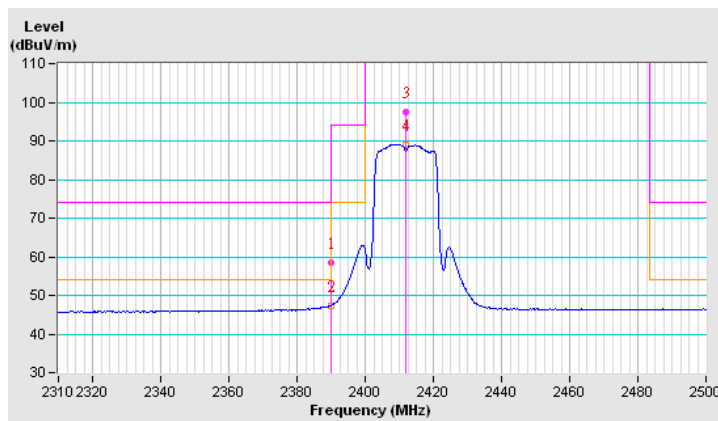
A D T

FINAL TEST DATE	May 18, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 1 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.6 PK	74.0	-15.4	1.00 V	325	26.15	32.45
2	2390.00	47.3 AV	54.0	-6.7	1.00 V	325	14.85	32.45
3	*2412.00	97.6 PK			1.00 V	339	65.07	32.53
4	*2412.00	89.0 AV			1.00 V	339	56.47	32.53

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





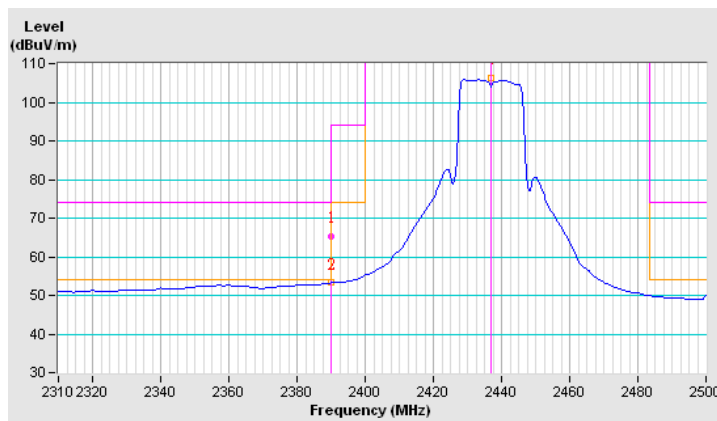
A D T

FINAL TEST DATE	May 08, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 6 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.4 PK	74.0	-8.6	1.09 H	49	31.87	33.53
2	2390.00	53.3 AV	54.0	-0.7	1.09 H	49	19.77	33.53
3	*2437.00	115.7 PK			1.09 H	49	82.03	33.67
4	*2437.00	106.3 AV			1.09 H	49	72.63	33.67

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





A D T

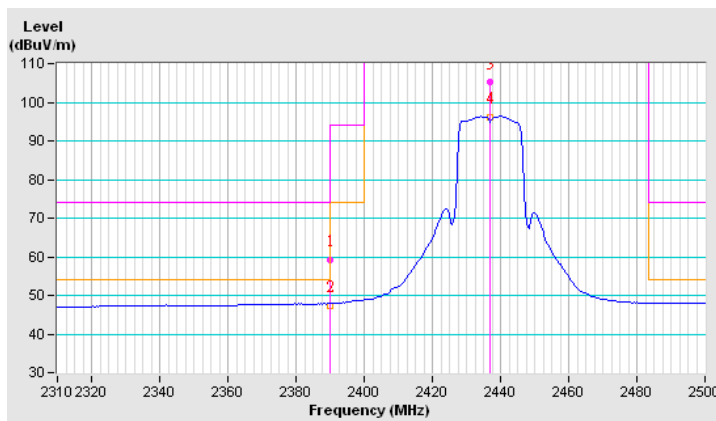
FINAL TEST DATE	May 09, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 6 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.2 PK	74.0	-14.8	1.00 V	351	25.67	33.53
2	2390.00	47.3 AV	54.0	-6.7	1.00 V	351	13.77	33.53
3	*2437.00	105.1 PK			1.00 V	351	71.43	33.67
4	*2437.00	96.2 AV			1.00 V	351	62.53	33.67

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





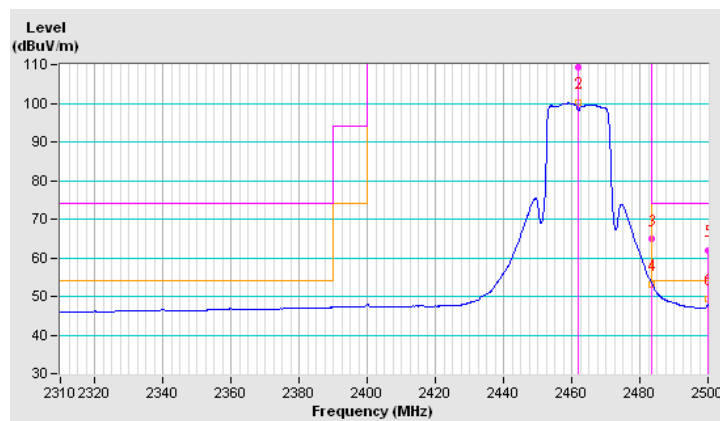
A D T

FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 11 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	109.2 PK			1.07 H	36	76.49	32.71
2	*2462.00	100.1 AV			1.07 H	36	67.39	32.71
3	2483.50	64.8 PK	74.0	-9.2	1.07 H	36	32.01	32.79
4	2483.50	53.2 AV	54.0	-0.8	1.07 H	36	20.41	32.79
5	2500.00	61.9 PK	74.0	-12.1	1.00 H	44	29.05	32.85
6	2500.00	49.3 AV	54.0	-4.7	1.00 H	44	16.45	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





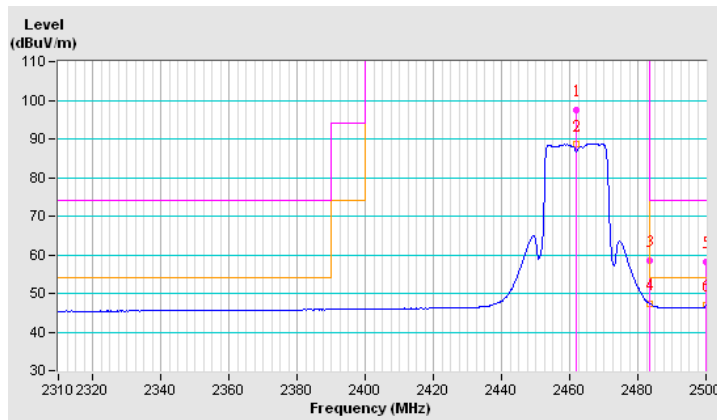
A D T

FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 11 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	97.5 PK			1.00 V	340	64.79	32.71
2	*2462.00	88.5 AV			1.00 V	340	55.79	32.71
3	2483.50	58.6 PK	74.0	-15.4	1.00 V	342	25.81	32.79
4	2483.50	47.3 AV	54.0	-6.7	1.00 V	342	14.51	32.79
5	2500.00	58.2 PK	74.0	-15.8	1.00 V	83	25.35	32.85
6	2500.00	46.9 AV	54.0	-7.1	1.00 V	83	14.05	32.85

REMARKS:

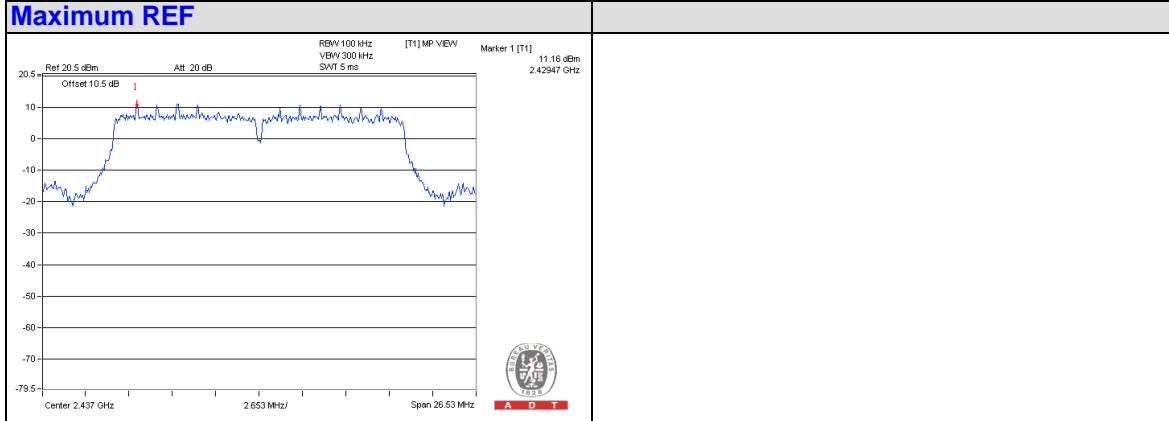
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.



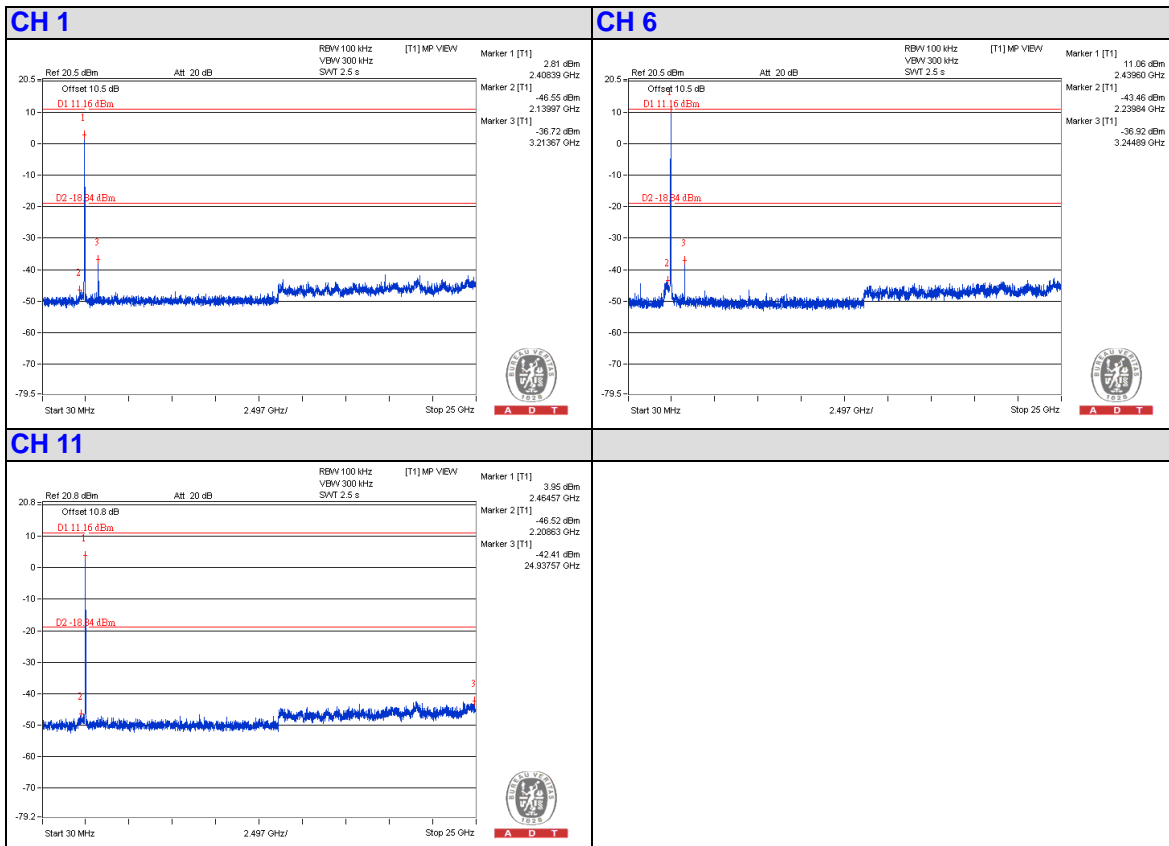


A D T

802.11n(20MHz, MCS0) / Ant.1 & Ant.4 (Reference Level)



802.11n(20MHz, MCS0) (down 30dBc) / Ant.1 <CH11> & Ant.4<CH1/CH6 >





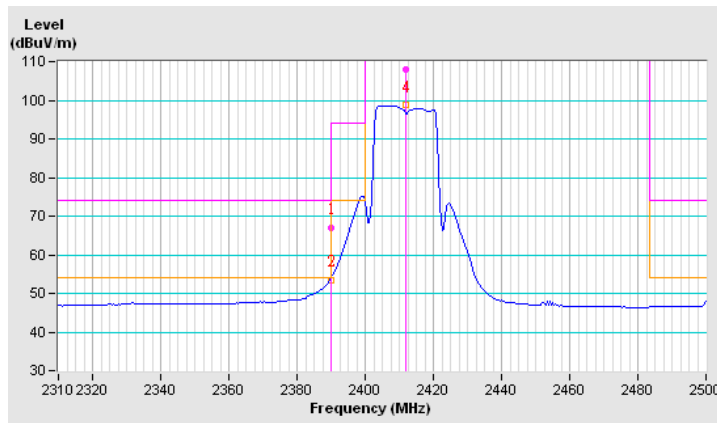
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 1 / Ant.1 + Ant.2

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	67.1 PK	74.0	-6.9	1.15 H	137	34.65	32.45
2	2390.00	53.5 AV	54.0	-0.5	1.15 H	137	21.05	32.45
3	*2412.00	108.1 PK			1.14 H	136	75.57	32.53
4	*2412.00	98.7 AV			1.14 H	136	66.17	32.53

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





A D T

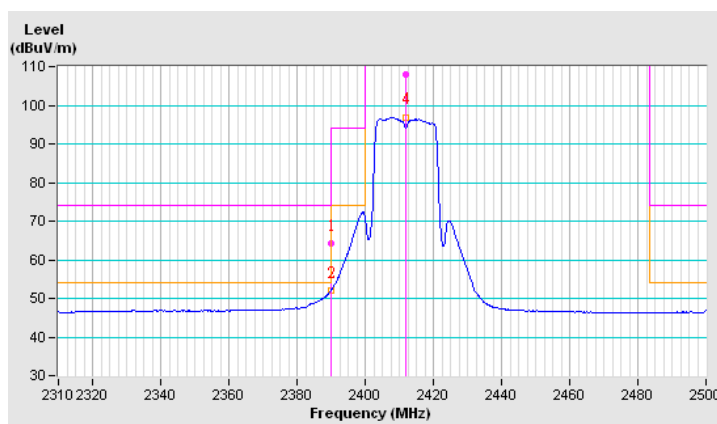
FINAL TEST DATE	May 18, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 1 / Ant.1 + Ant.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.1 PK	74.0	-9.9	1.37 V	352	31.65	32.45
2	2390.00	51.9 AV	54.0	-2.1	1.37 V	352	19.45	32.45
3	*2412.00	108.1 PK			1.00 V	352	75.57	32.53
4	*2412.00	96.8 AV			1.00 V	352	64.27	32.53

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





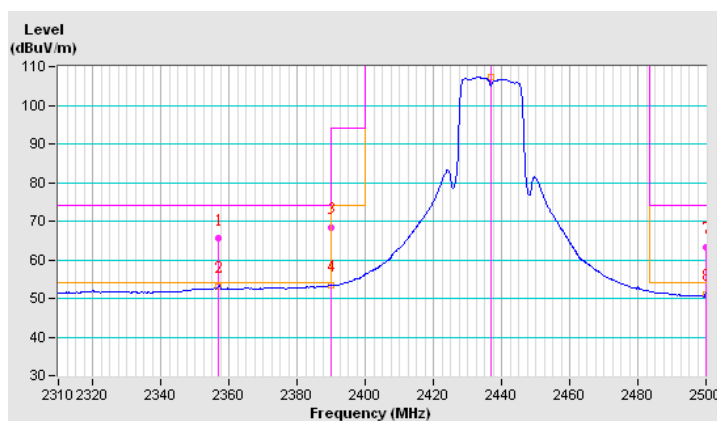
A D T

FINAL TEST DATE	May 06, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 6 / Ant.1 + Ant.2

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2357.00	65.5 PK	74.0	-8.5	1.12 H	136	32.08	33.42
2	2357.00	53.2 AV	54.0	-0.8	1.12 H	136	19.78	33.42
3	2390.00	68.4 PK	74.0	-5.6	1.10 H	133	34.87	33.53
4	2390.00	53.5 AV	54.0	-0.5	1.10 H	133	19.97	33.53
5	*2437.00	116.8 PK			1.10 H	133	83.13	33.67
6	*2437.00	107.2 AV			1.10 H	133	73.53	33.67
7	2500.00	63.2 PK	74.0	-10.8	1.30 H	41	29.34	33.86
8	2500.00	51.1 AV	54.0	-2.9	1.30 H	41	17.24	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





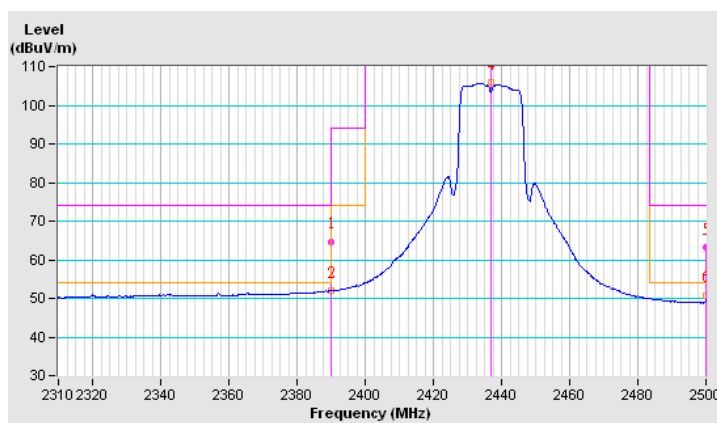
A D T

FINAL TEST DATE	May 06, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 6 / Ant.1 + Ant.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.7 PK	74.0	-9.3	1.30 V	3	31.17	33.53
2	2390.00	51.9 AV	54.0	-2.1	1.30 V	3	18.37	33.53
3	*2437.00	116.5 PK			1.30 V	3	82.83	33.67
4	*2437.00	105.8 AV			1.30 V	3	72.13	33.67
5	2500.00	63.1 PK	74.0	-10.9	1.09 V	74	29.24	33.86
6	2500.00	50.8 AV	54.0	-3.2	1.09 V	74	16.94	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





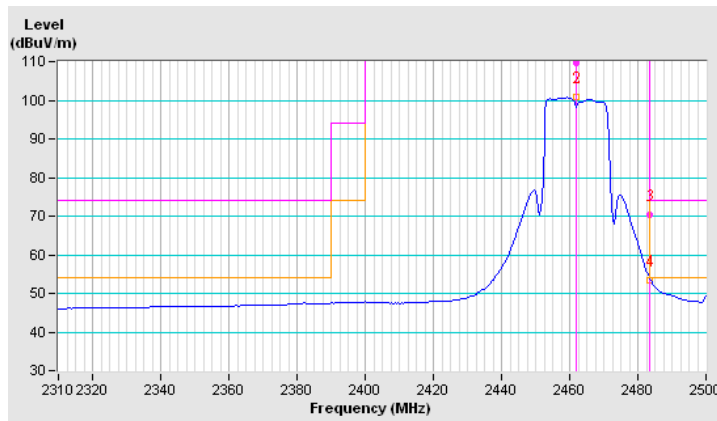
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 11 / Ant.1 + Ant.2

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	109.5 PK			1.12 H	213	76.79	32.71
2	*2462.00	100.8 AV			1.12 H	213	68.09	32.71
3	2483.50	70.5 PK	74.0	-3.5	1.12 H	213	37.71	32.79
4	2483.50	53.5 AV	54.0	-0.5	1.12 H	213	20.71	32.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





A D T

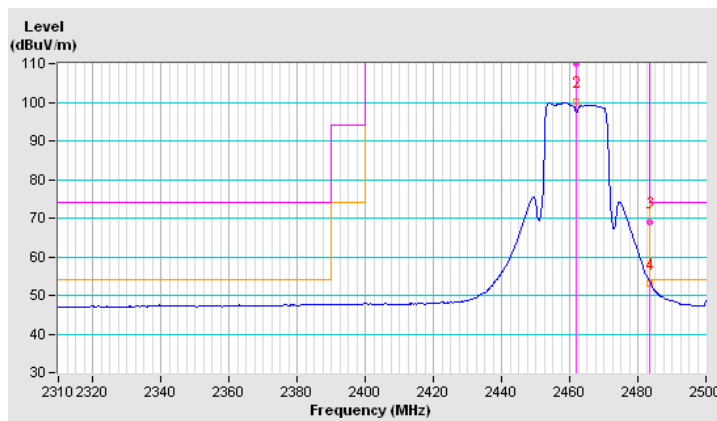
FINAL TEST DATE	May 18, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 11 / Ant.1 + Ant.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.1 PK			1.27 V	339	77.39	32.71
2	*2462.00	100.1 AV			1.27 V	339	67.39	32.71
3	2483.50	68.9 PK	74.0	-5.1	1.23 V	342	36.11	32.79
4	2483.50	53.2 AV	54.0	-0.8	1.23 V	342	20.41	32.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





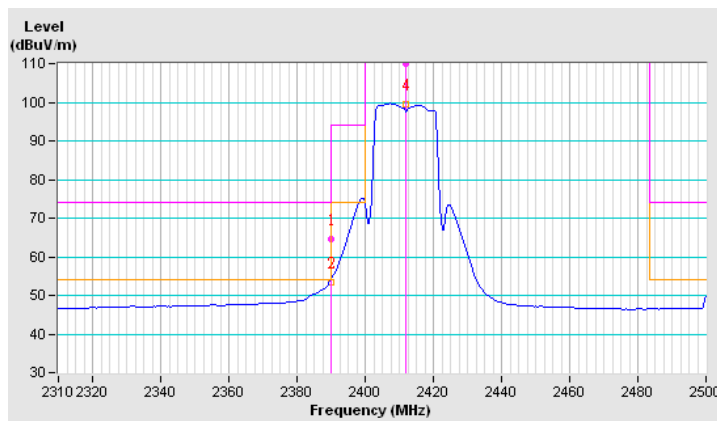
A D T

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 1 / Ant.1 + Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.5 PK	74.0	-9.5	1.09 H	51	32.05	32.45
2	2390.00	53.5 AV	54.0	-0.5	1.09 H	51	21.05	32.45
3	*2412.00	110.1 PK			1.09 H	51	77.57	32.53
4	*2412.00	99.6 AV			1.09 H	51	67.07	32.53

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





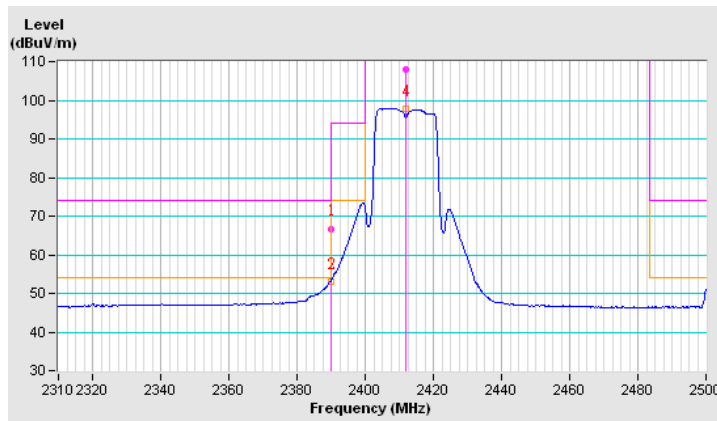
A D T

FINAL TEST DATE	May 18, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 1 / Ant.1 + Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.7 PK	74.0	-7.3	1.00 V	61	34.25	32.45
2	2390.00	52.9 AV	54.0	-1.1	1.00 V	61	20.45	32.45
3	*2412.00	108.1 PK			1.00 V	60	75.57	32.53
4	*2412.00	97.7 AV			1.00 V	60	65.17	32.53

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





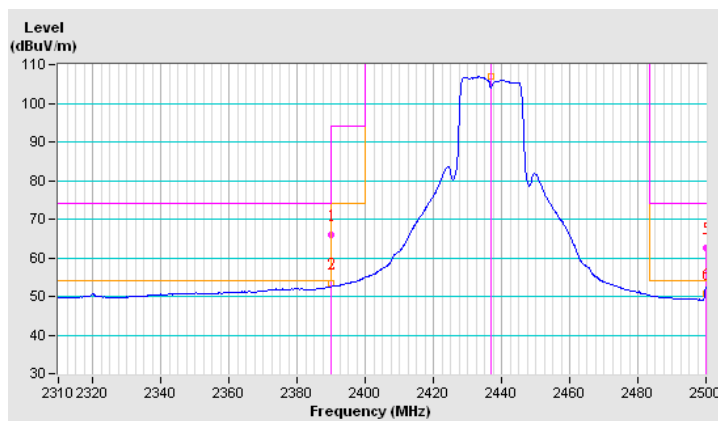
A D T

FINAL TEST DATE	May 06, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 6 / Ant.1 + Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.1 PK	74.0	-7.9	1.32 H	27	32.57	33.53
2	2390.00	53.5 AV	54.0	-0.5	1.32 H	27	19.97	33.53
3	*2437.00	116.2 PK			1.28 H	29	82.53	33.67
4	*2437.00	106.8 AV			1.28 H	29	73.13	33.67
5	2500.00	62.7 PK	74.0	-11.3	1.32 H	45	28.84	33.86
6	2500.00	50.8 AV	54.0	-3.2	1.32 H	45	16.94	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





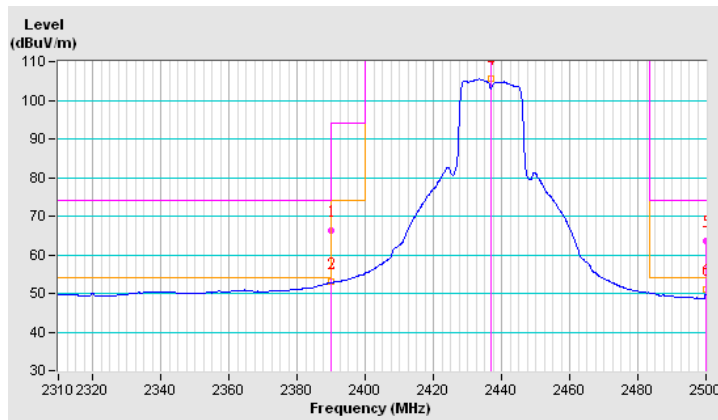
A D T

FINAL TEST DATE	May 06, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 6 / Ant.1 + Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.3 PK	74.0	-7.7	1.00 V	15	32.77	33.53
2	2390.00	52.9 AV	54.0	-1.1	1.00 V	15	19.37	33.53
3	*2437.00	115.8 PK			1.00 V	15	82.13	33.67
4	*2437.00	105.7 AV			1.00 V	15	72.03	33.67
5	2500.00	63.5 PK	74.0	-10.5	1.12 V	77	29.64	33.86
6	2500.00	51.1 AV	54.0	-2.9	1.12 V	77	17.24	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





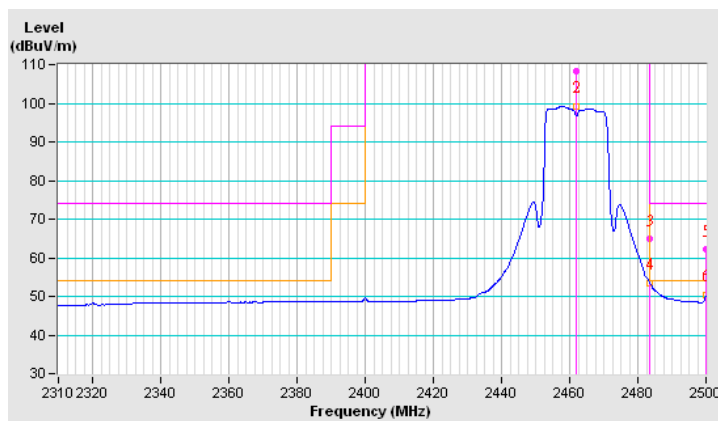
A D T

FINAL TEST DATE	May 06, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 11 / Ant.1 + Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	108.3 PK			1.06 H	41	74.56	33.74
2	*2462.00	99.1 AV			1.06 H	41	65.36	33.74
3	2483.50	64.8 PK	74.0	-9.2	1.05 H	44	30.99	33.81
4	2483.50	53.4 AV	54.0	-0.6	1.05 H	44	19.59	33.81
5	2500.00	62.1 PK	74.0	-11.9	1.31 H	44	28.24	33.86
6	2500.00	50.4 AV	54.0	-3.6	1.31 H	44	16.54	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





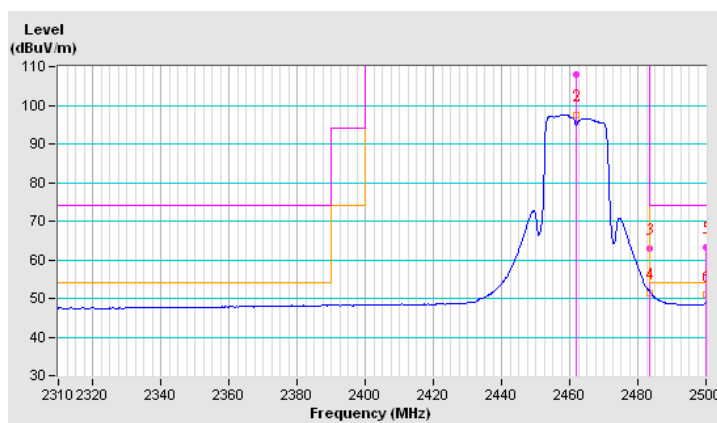
A D T

FINAL TEST DATE	May 06, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 11 / Ant.1 + Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.9 PK			1.00 V	12	74.16	33.74
2	*2462.00	97.4 AV			1.00 V	12	63.66	33.74
3	2483.50	62.9 PK	74.0	-11.1	1.00 V	12	29.09	33.81
4	2483.50	51.5 AV	54.0	-2.5	1.00 V	12	17.69	33.81
5	2500.00	63.2 PK	74.0	-10.8	1.14 V	75	29.34	33.86
6	2500.00	50.9 AV	54.0	-3.1	1.14 V	75	17.04	33.86

REMARKS:

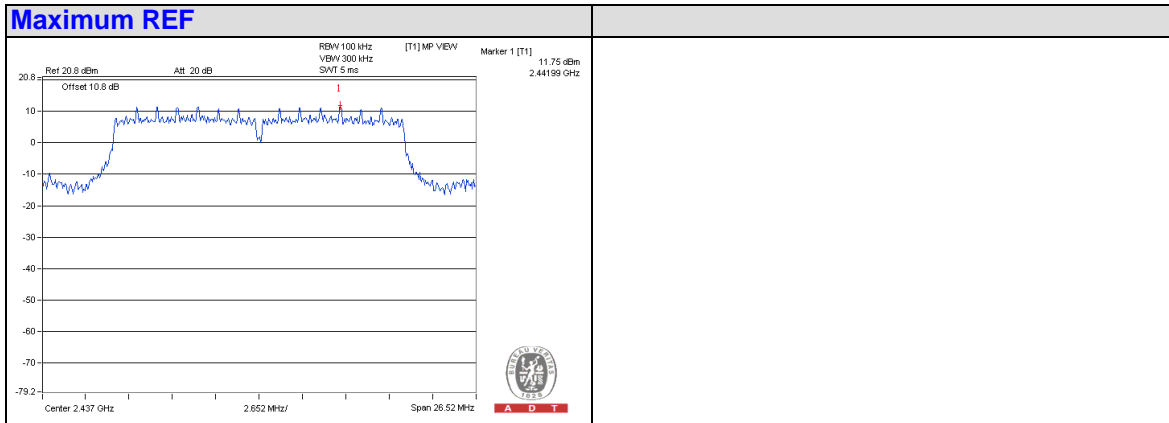
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.



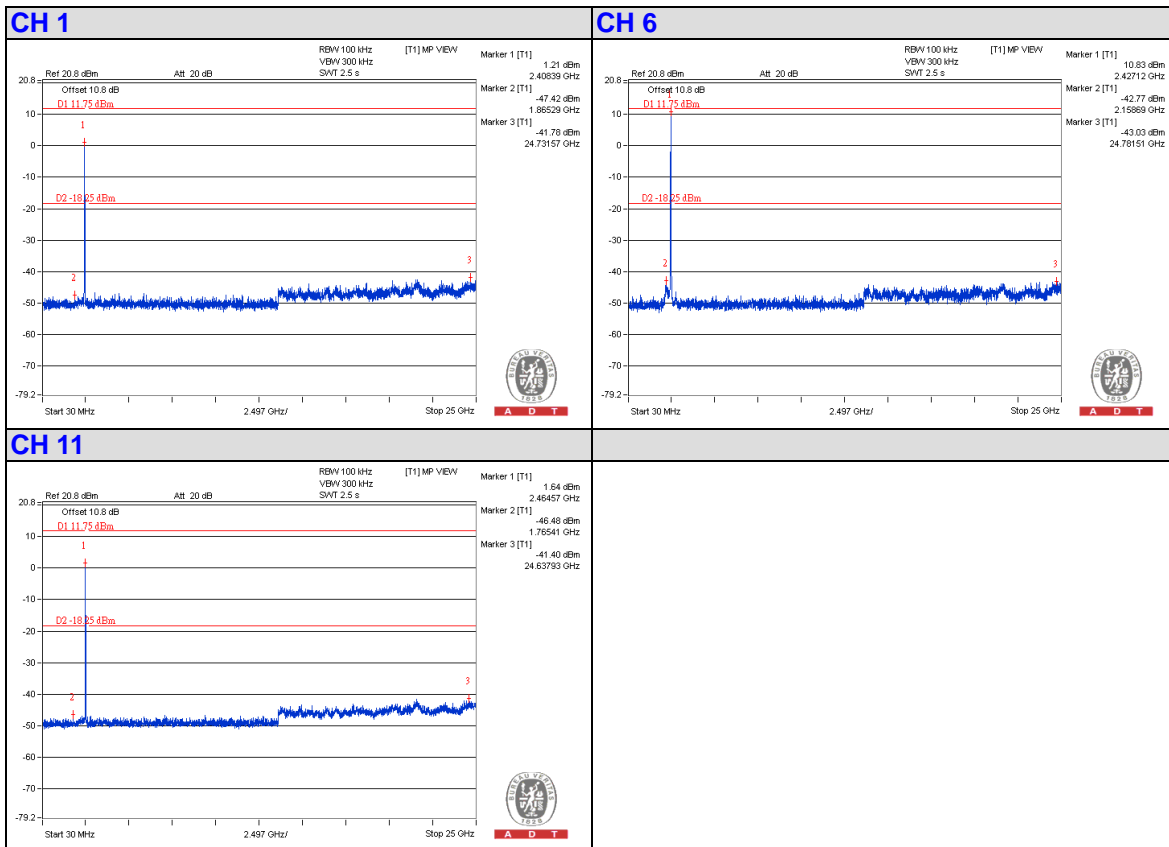


A D T

802.11n(20MHz, MCS8) / Ant.1 & Ant.4 (Reference Level)



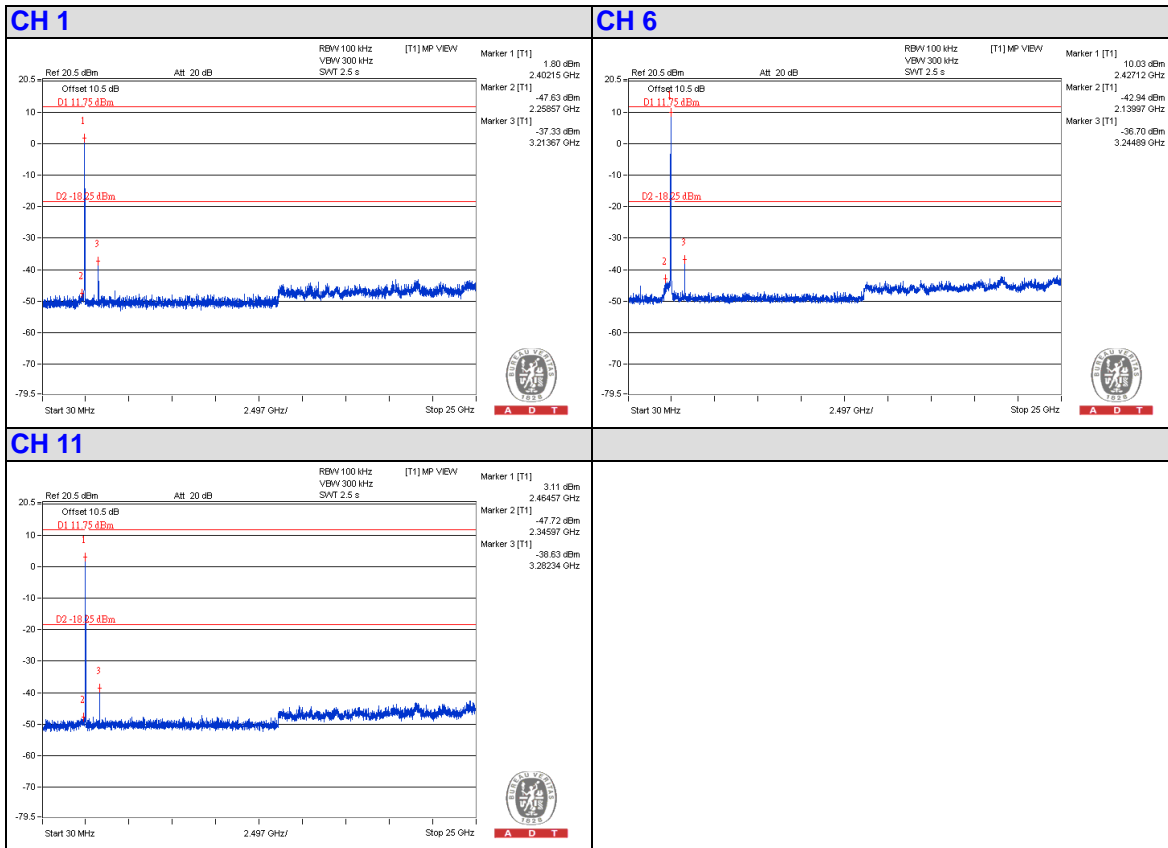
802.11n(20MHz, MCS8) (down 30dBc) / Ant.1





A D T

802.11n(20MHz, MCS8) (down 30dBc) / Ant.4





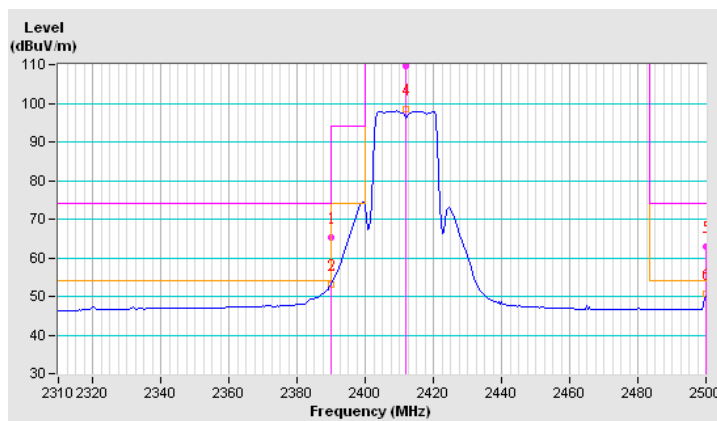
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 1 / Ant.1 + Ant.2 + Ant. 4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.3 PK	74.0	-8.7	1.35 H	244	32.85	32.45
2	2390.00	53.2 AV	54.0	-0.8	1.35 H	244	20.75	32.45
3	*2412.00	109.8 PK			1.37 H	238	77.27	32.53
4	*2412.00	98.6 AV			1.37 H	238	66.07	32.53
5	2500.00	62.8 PK	74.0	-11.2	1.27 H	46	29.95	32.85
6	2500.00	50.8 AV	54.0	-3.2	1.27 H	46	17.95	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





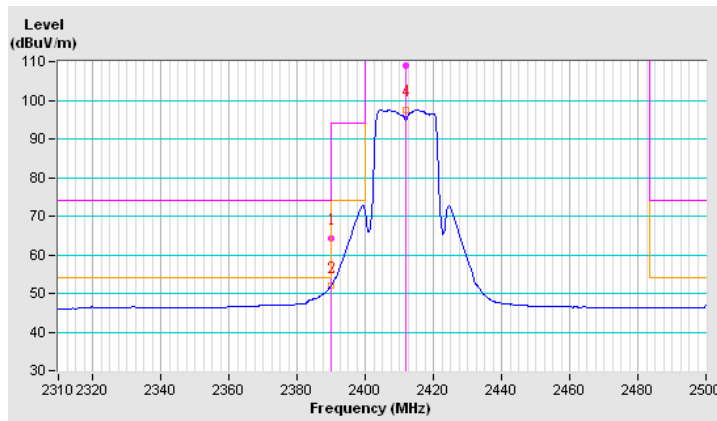
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	26 °C	HUMIDITY	68 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 1 / Ant.1 + Ant.2 + Ant. 4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	64.2 PK	74.0	-9.8	1.31 V	15	31.75	32.45
2	2390.00	51.9 AV	54.0	-2.1	1.31 V	15	19.45	32.45
3	*2412.00	108.9 PK			1.28 V	10	76.37	32.53
4	*2412.00	97.4 AV			1.28 V	10	64.87	32.53

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





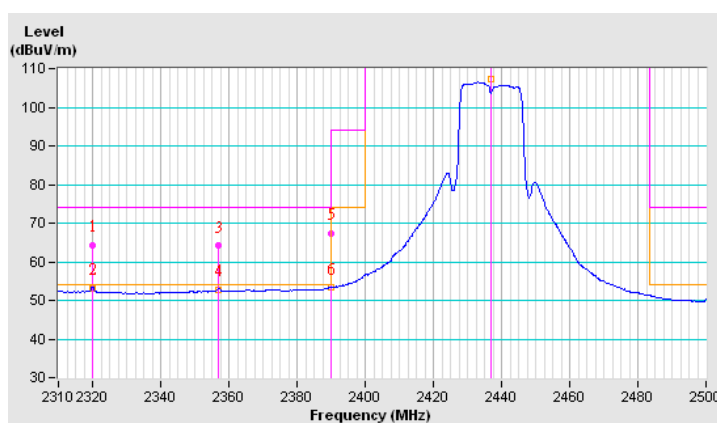
A D T

FINAL TEST DATE	May 06, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 6 / Ant.1 + Ant.2 + Ant. 4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2320.00	64.3 PK	74.0	-9.7	1.14 H	137	31.00	33.30
2	2320.00	53.1 AV	54.0	-0.9	1.14 H	137	19.80	33.30
3	2357.00	64.1 PK	74.0	-9.9	1.11 H	133	30.68	33.42
4	2357.00	52.8 AV	54.0	-1.2	1.11 H	133	19.38	33.42
5	2390.00	67.4 PK	74.0	-6.6	1.09 H	136	33.87	33.53
6	2390.00	53.3 AV	54.0	-0.7	1.09 H	136	19.77	33.53
7	*2437.00	117.5 PK			1.08 H	134	83.83	33.67
8	*2437.00	107.3 AV			1.08 H	134	73.63	33.67

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





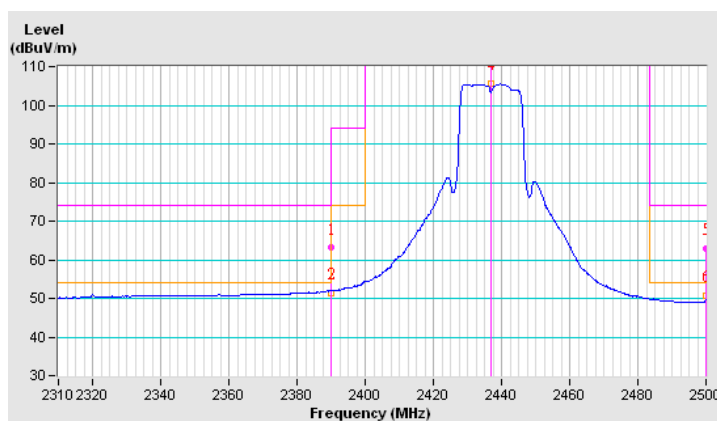
A D T

FINAL TEST DATE	May 07, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 6 / Ant.1 + Ant.2 + Ant. 4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	63.1 PK	74.0	-10.9	1.29 V	2	29.57	33.53
2	2390.00	51.4 AV	54.0	-2.6	1.29 V	2	17.87	33.53
3	*2437.00	116.6 PK			1.29 V	2	82.93	33.67
4	*2437.00	105.6 AV			1.29 V	2	71.93	33.67
5	2500.00	62.9 PK	74.0	-11.1	1.10 V	72	29.04	33.86
6	2500.00	50.8 AV	54.0	-3.2	1.10 V	72	16.94	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





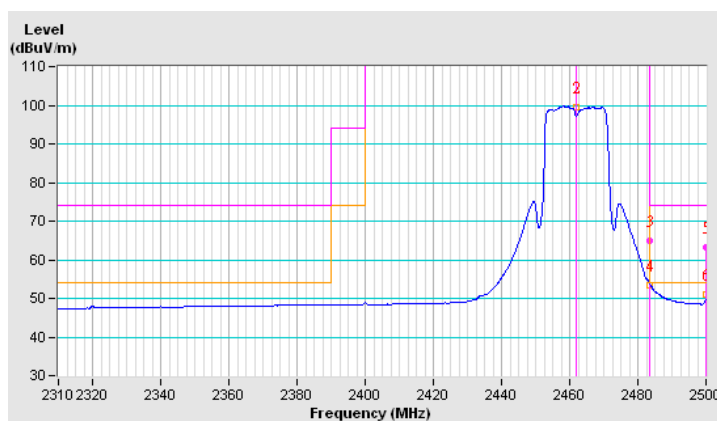
A D T

FINAL TEST DATE	May 07, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 11 / Ant.1 + Ant.2 + Ant. 4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	110.9 PK			1.03 H	64	77.16	33.74
2	*2462.00	99.6 AV			1.03 H	64	65.86	33.74
3	2483.50	64.9 PK	74.0	-9.1	1.03 H	64	31.09	33.81
4	2483.50	53.5 AV	54.0	-0.5	1.03 H	64	19.69	33.81
5	2500.00	63.3 PK	74.0	-10.7	1.29 H	42	29.44	33.86
6	2500.00	51.1 AV	54.0	-2.9	1.29 H	42	17.24	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





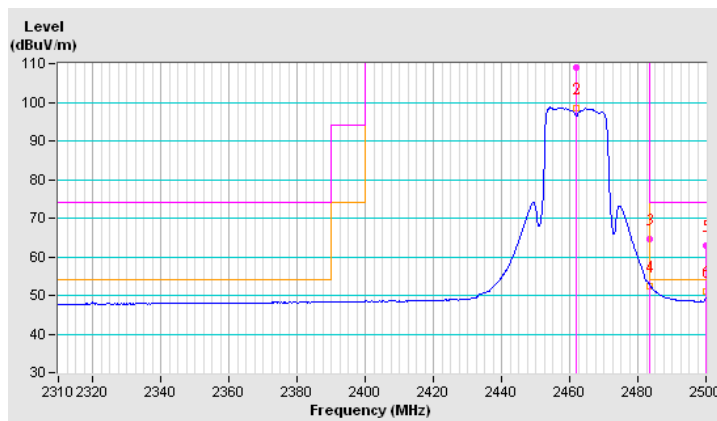
A D T

FINAL TEST DATE	May 07, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 11 / Ant.1 + Ant.2 + Ant. 4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	109.1 PK			1.25 V	2	75.36	33.74
2	*2462.00	98.5 AV			1.25 V	2	64.76	33.74
3	2483.50	64.6 PK	74.0	-9.4	1.25 V	2	30.79	33.81
4	2483.50	52.4 AV	54.0	-1.6	1.25 V	2	18.59	33.81
5	2500.00	62.8 PK	74.0	-11.2	1.09 V	73	28.94	33.86
6	2500.00	51.0 AV	54.0	-3.0	1.09 V	73	17.14	33.86

REMARKS:

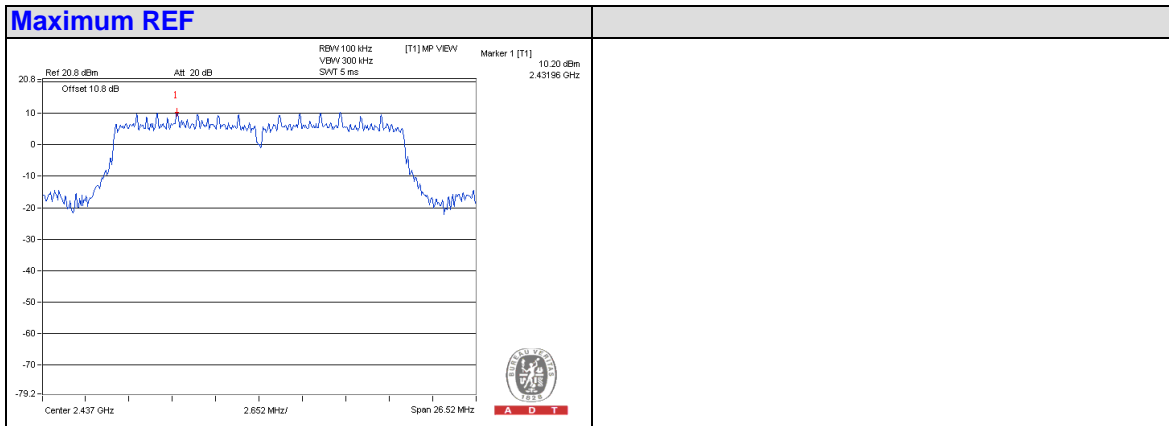
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.



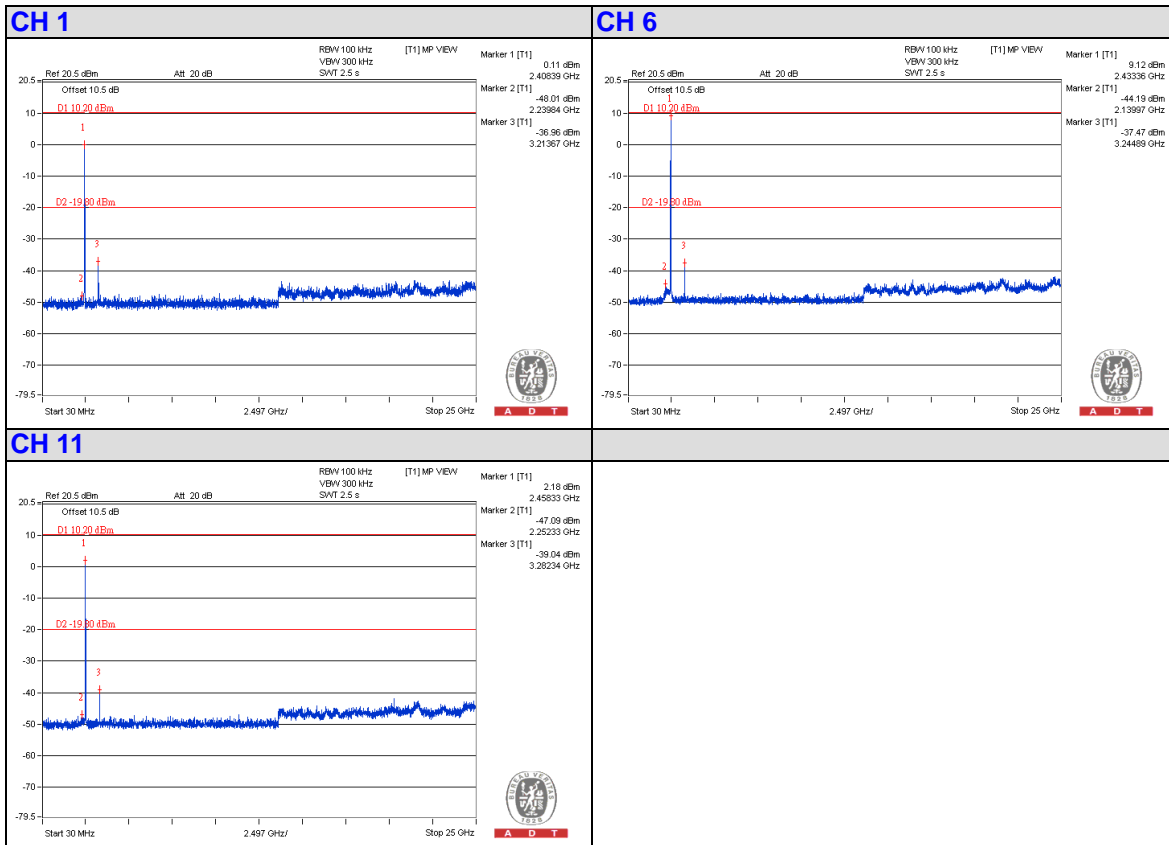


A D T

802.11n(20MHz, MCS16) / Ant.1 & Ant.2 & Ant. 4 (Reference Level)



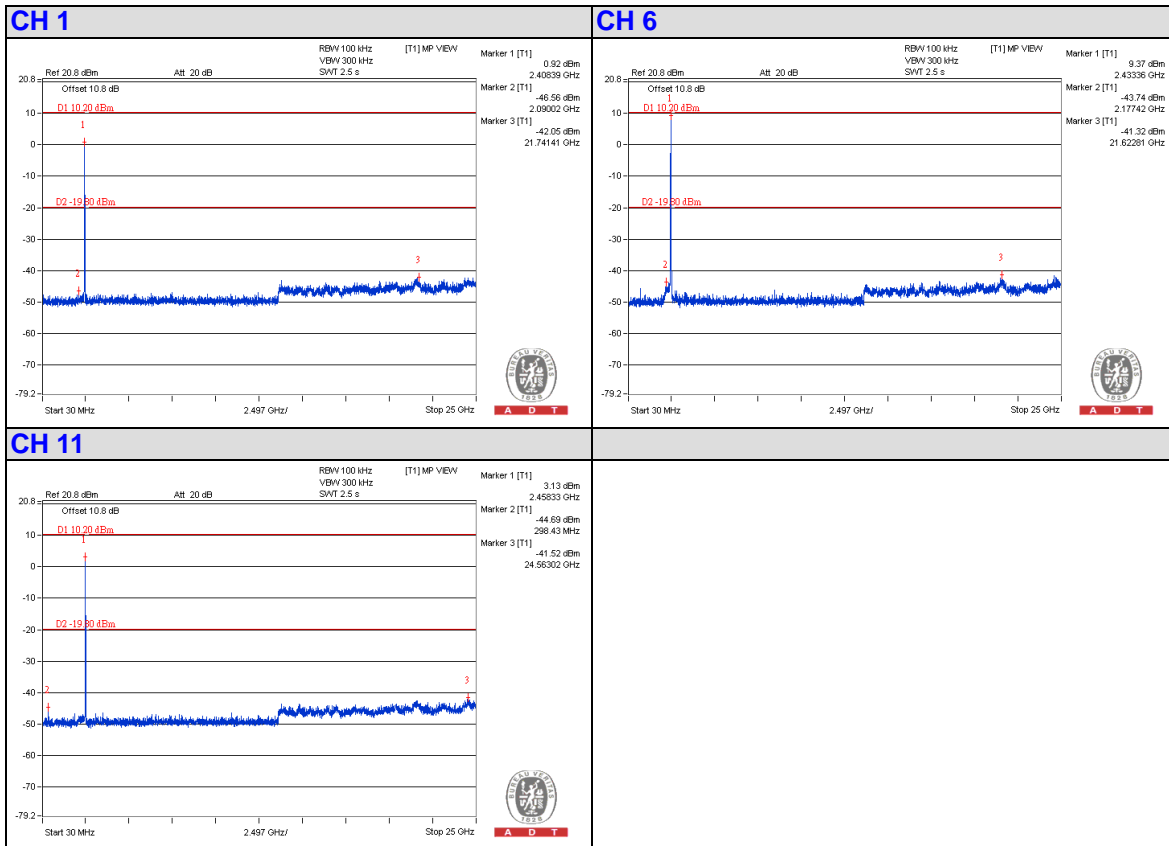
802.11n(20MHz, MCS16) (down 30dBc) / Ant.1



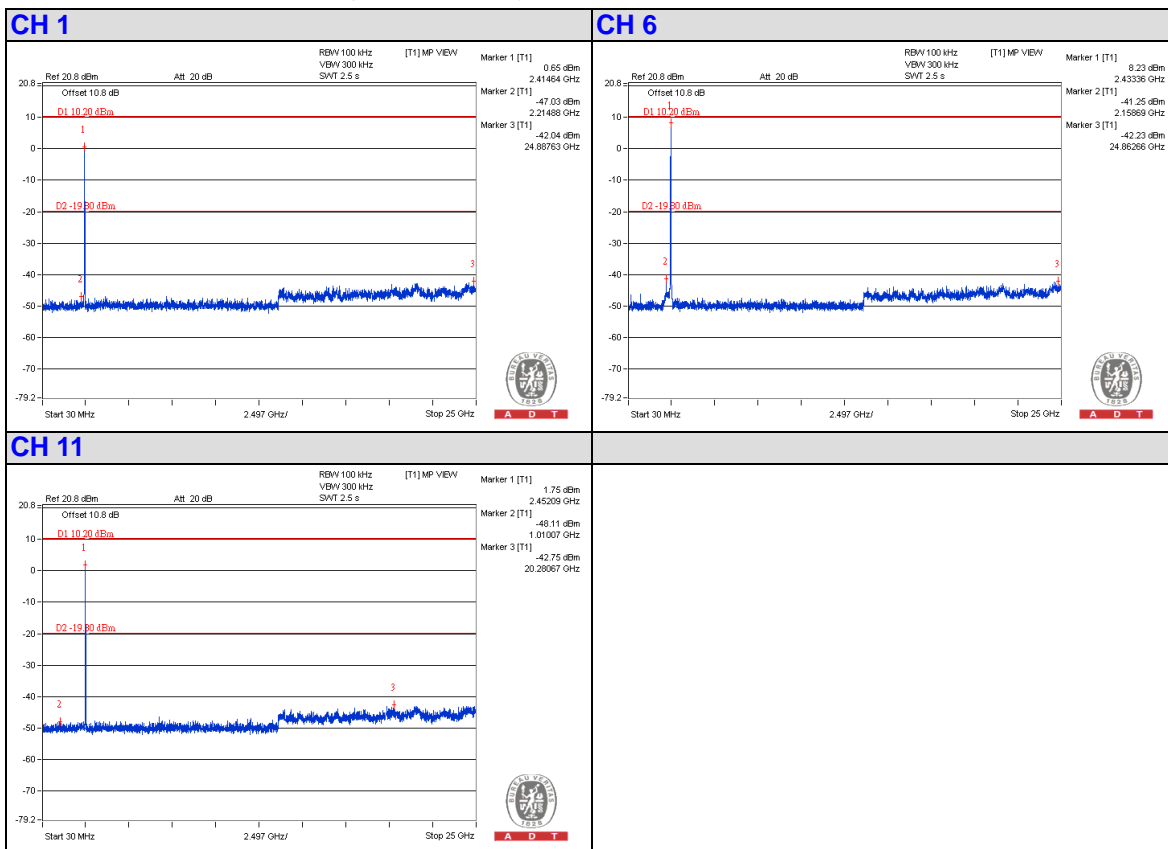


A D T

802.11n(20MHz, MCS16) (down 30dBc) / Ant.2



802.11n(20MHz, MCS16) (down 30dBc) / Ant.4





A D T

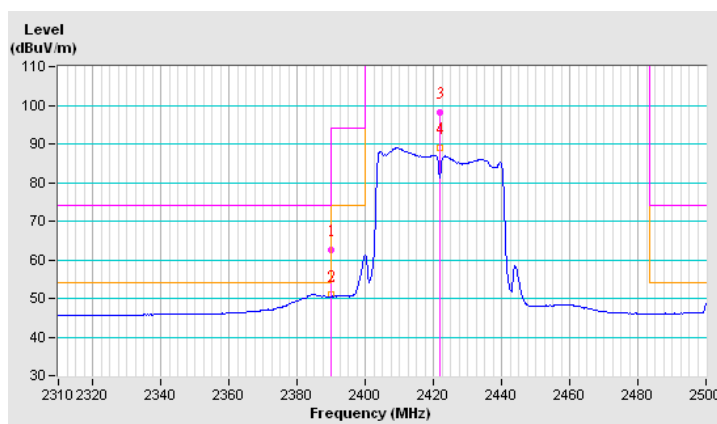
FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	26 °C	HUMIDITY	68 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 3 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.5 PK	74.0	-11.5	1.38 H	62	30.05	32.45
2	2390.00	50.9 AV	54.0	-3.1	1.38 H	62	18.45	32.45
3	*2422.00	98.1 PK			1.41 H	63	65.53	32.57
4	*2422.00	89.1 AV			1.41 H	63	56.53	32.57

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





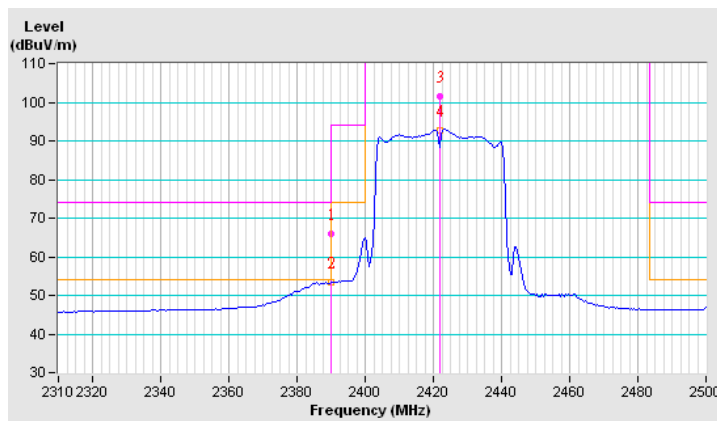
A D T

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 3 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.1 PK	74.0	-7.9	1.00 V	285	33.65	32.45
2	2390.00	53.5 AV	54.0	-0.5	1.00 V	285	21.05	32.45
3	*2422.00	101.6 PK			1.00 V	286	69.03	32.57
4	*2422.00	92.8 AV			1.00 V	286	60.23	32.57

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





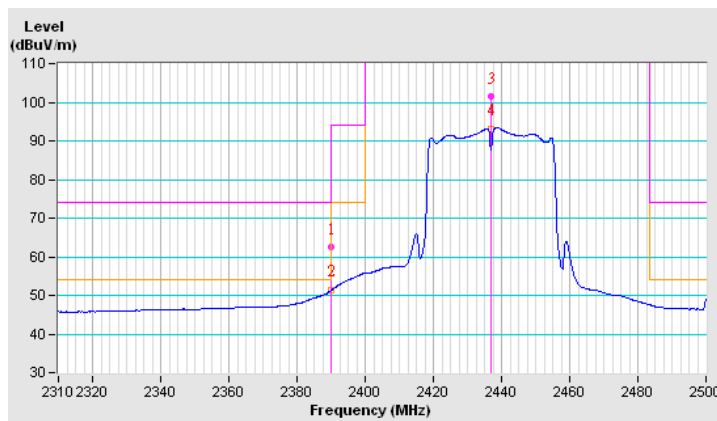
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	26 °C	HUMIDITY	68 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 6 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.4 PK	74.0	-11.6	1.40 H	78	29.95	32.45
2	2390.00	51.3 AV	54.0	-2.7	1.40 H	78	18.85	32.45
3	*2437.00	101.4 PK			1.33 H	68	68.78	32.62
4	*2437.00	93.2 AV			1.33 H	68	60.58	32.62

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





A D T

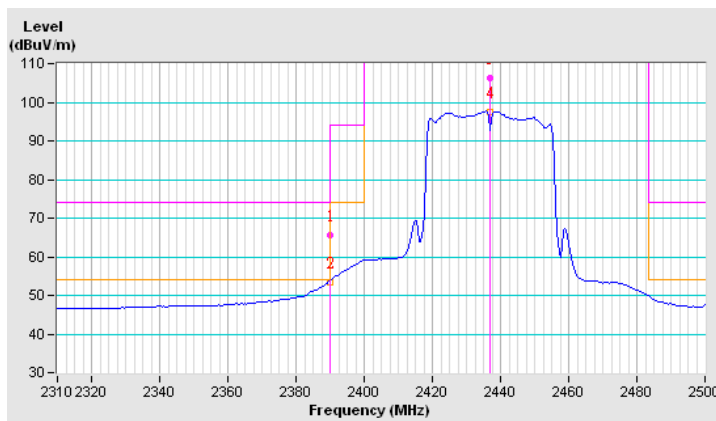
FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 6 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.6 PK	74.0	-8.4	1.00 V	283	33.15	32.45
2	2390.00	53.5 AV	54.0	-0.5	1.00 V	283	21.05	32.45
3	*2437.00	106.3 PK			1.00 V	288	73.68	32.62
4	*2437.00	97.5 AV			1.00 V	288	64.88	32.62

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





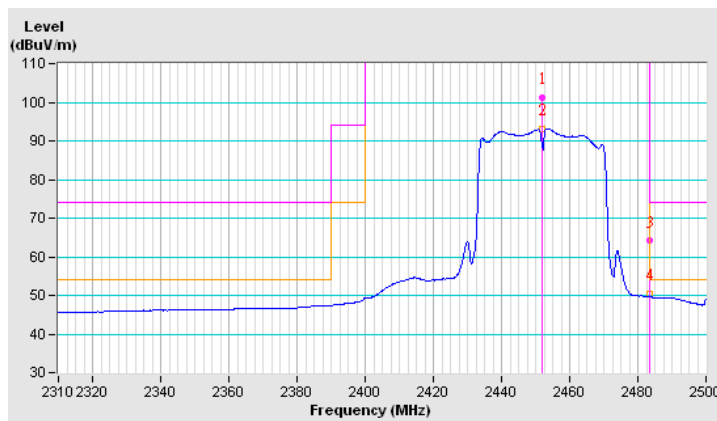
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	26 °C	HUMIDITY	68 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 9 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	101.2 PK			1.45 H	61	68.52	32.68
2	*2452.00	93.1 AV			1.45 H	61	60.42	32.68
3	2483.50	64.1 PK	74.0	-9.9	1.44 H	72	31.31	32.79
4	2483.50	50.3 AV	54.0	-3.7	1.44 H	72	17.51	32.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





A D T

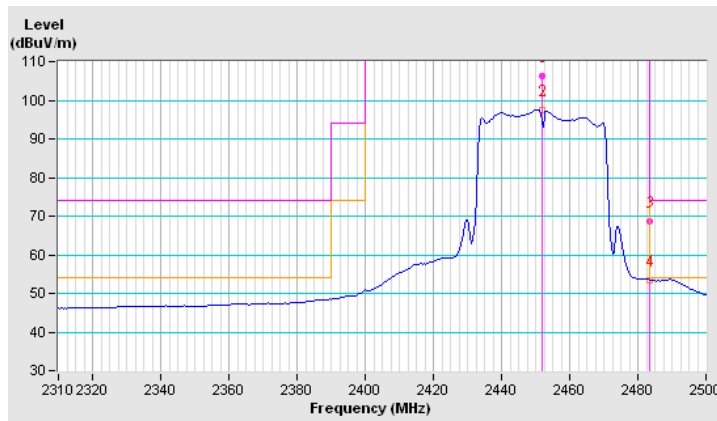
FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 9 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	106.4 PK			1.00 V	262	73.72	32.68
2	*2452.00	97.4 AV			1.00 V	262	64.72	32.68
3	2483.50	68.8 PK	74.0	-5.2	1.00 V	260	36.01	32.79
4	2483.50	53.5 AV	54.0	-0.5	1.00 V	260	20.71	32.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





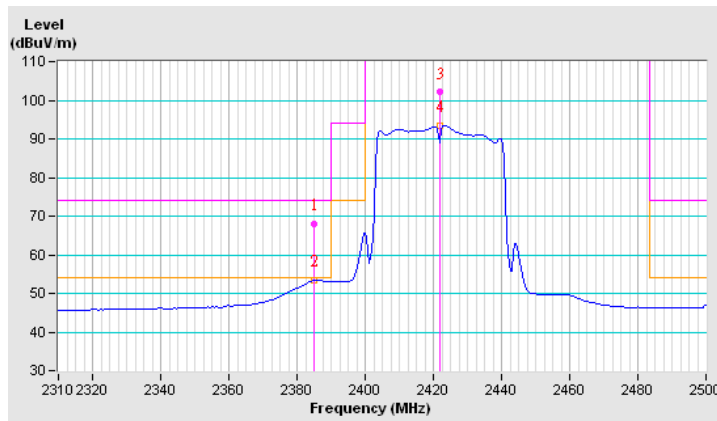
A D T

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 3 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2385.00	67.9 PK	74.0	-6.1	1.08 H	36	35.47	32.43
2	2385.00	53.5 AV	54.0	-0.5	1.08 H	36	21.07	32.43
3	*2422.00	102.1 PK			1.08 H	35	69.53	32.57
4	*2422.00	93.4 AV			1.08 H	35	60.83	32.57

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





A D T

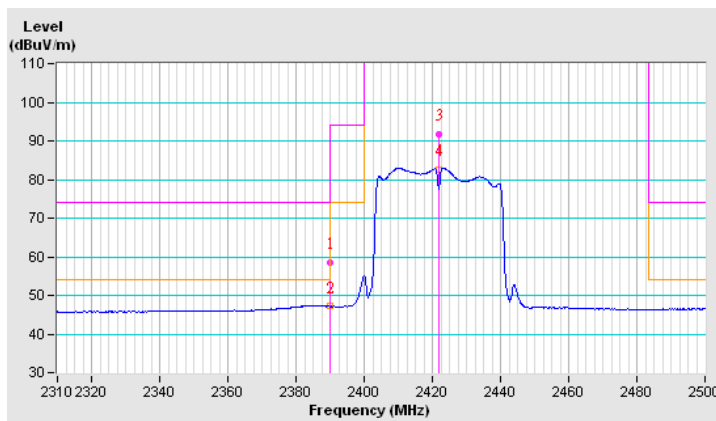
FINAL TEST DATE	May 18, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 3 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.6 PK	74.0	-15.4	1.00 V	351	26.15	32.45
2	2390.00	47.2 AV	54.0	-6.8	1.00 V	351	14.75	32.45
3	*2422.00	91.8 PK			1.00 V	328	59.23	32.57
4	*2422.00	82.7 AV			1.00 V	328	50.13	32.57

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





A D T

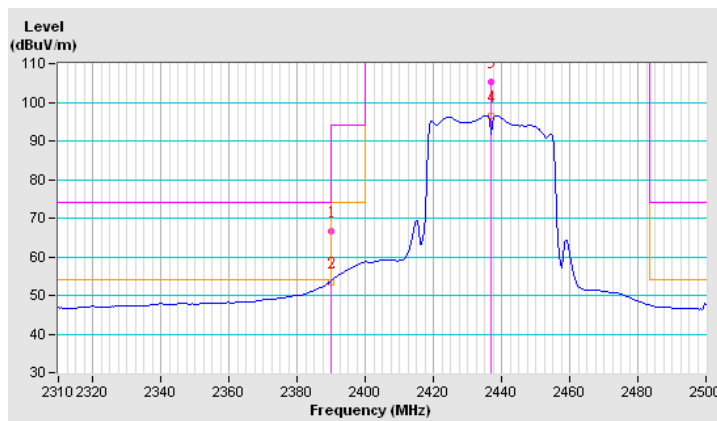
FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 6 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.7 PK	74.0	-7.3	1.11 H	35	34.25	32.45
2	2390.00	53.5 AV	54.0	-0.5	1.11 H	35	21.05	32.45
3	*2437.00	105.3 PK			1.11 H	35	72.68	32.62
4	*2437.00	96.4 AV			1.11 H	35	63.78	32.62

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





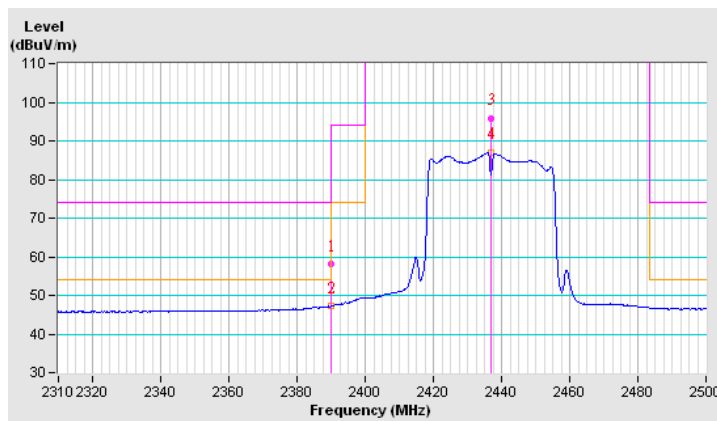
A D T

FINAL TEST DATE	May 18, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 6 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.0 PK	74.0	-16.0	1.00 V	318	25.55	32.45
2	2390.00	47.2 AV	54.0	-6.8	1.00 V	318	14.75	32.45
3	*2437.00	95.7 PK			1.00 V	328	63.08	32.62
4	*2437.00	87.1 AV			1.00 V	328	54.48	32.62

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





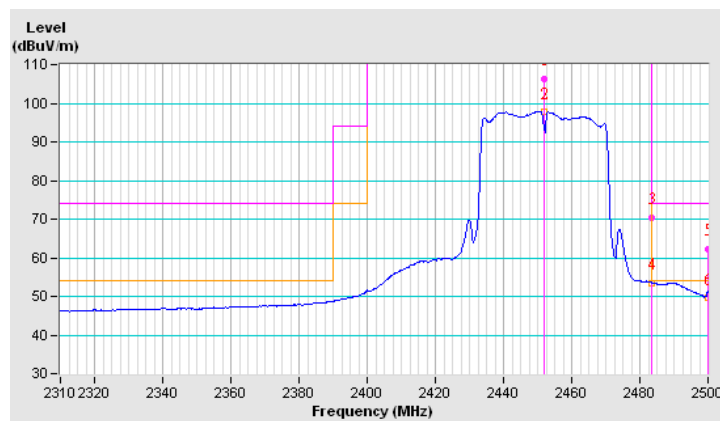
A D T

FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 9 / Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	106.2 PK			1.07 H	38	73.52	32.68
2	*2452.00	97.7 AV			1.07 H	38	65.02	32.68
3	2483.50	70.3 PK	74.0	-3.7	1.07 H	38	37.51	32.79
4	2483.50	53.5 AV	54.0	-0.5	1.07 H	38	20.71	32.79
5	2500.00	62.2 PK	74.0	-11.8	1.00 H	45	29.35	32.85
6	2500.00	49.5 AV	54.0	-4.5	1.00 H	45	16.65	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





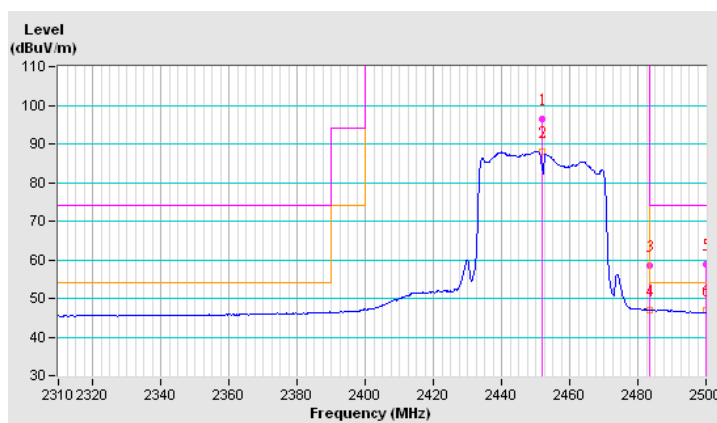
A D T

FINAL TEST DATE	May 03, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 9 / Ant.4

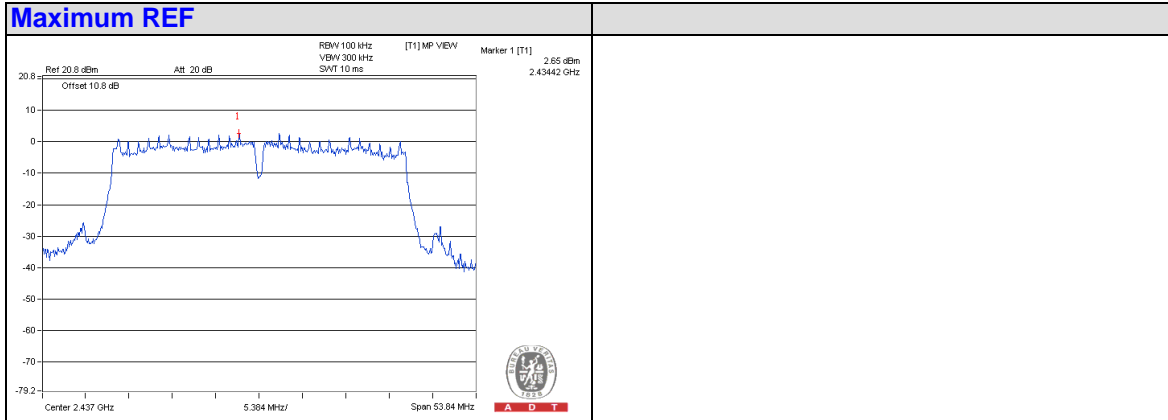
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	96.6 PK			1.00 V	252	63.92	32.68
2	*2452.00	87.9 AV			1.00 V	252	55.22	32.68
3	2483.50	58.6 PK	74.0	-15.4	1.00 V	252	25.81	32.79
4	2483.50	46.9 AV	54.0	-7.1	1.00 V	252	14.11	32.79
5	2500.00	58.9 PK	74.0	-15.1	1.00 V	79	26.05	32.85
6	2500.00	47.0 AV	54.0	-7.0	1.00 V	79	14.15	32.85

REMARKS:

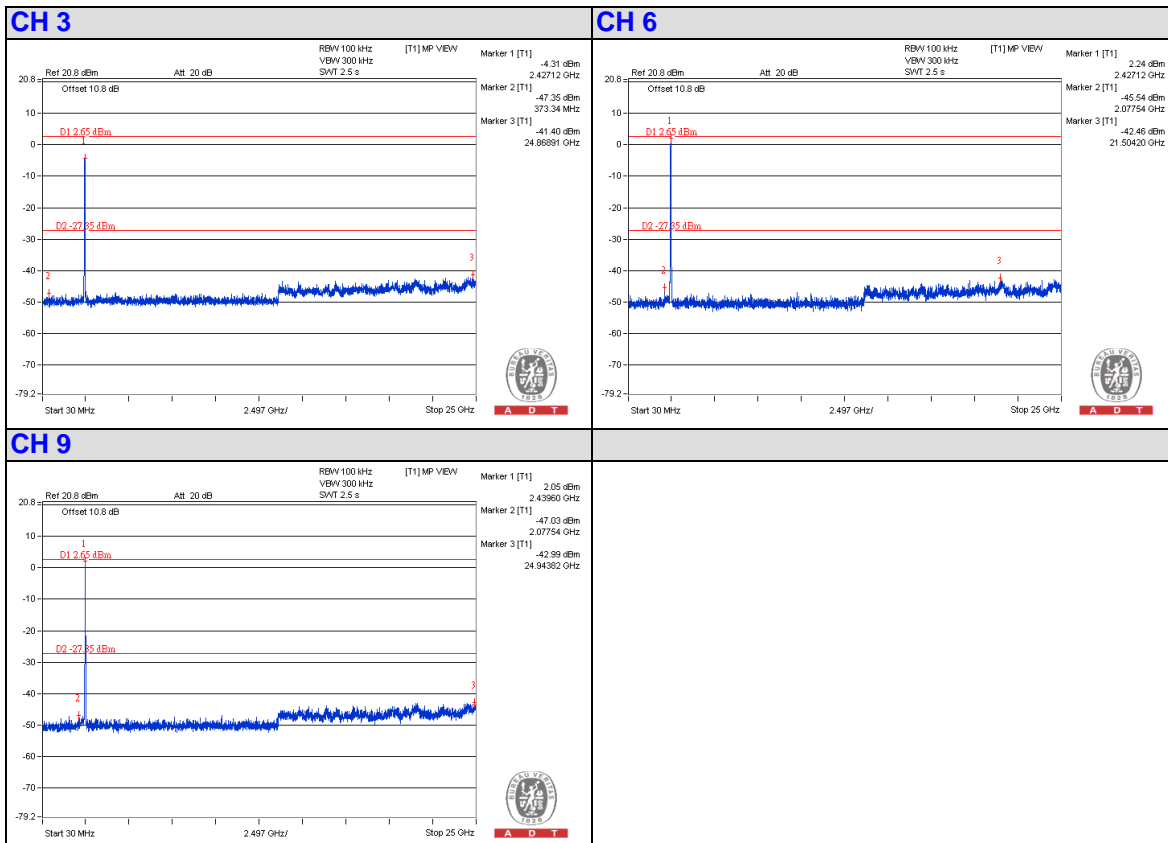
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.



802.11n(40MHz, MCS0) / Ant.1 (Reference Level)



802.11n(40MHz, MCS0) (down 30dBc) / Ant.1





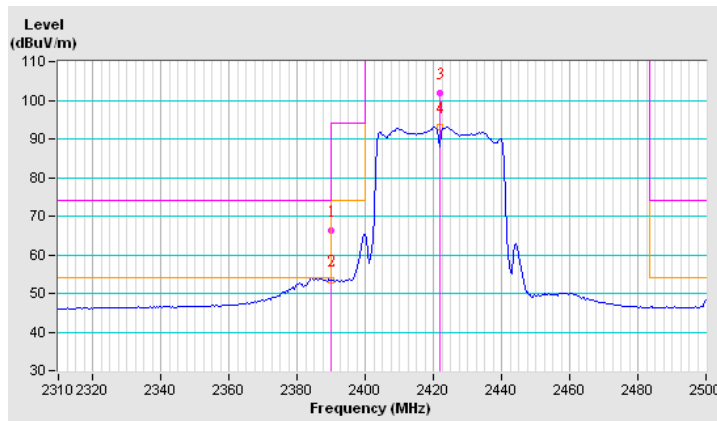
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 3 / Ant.1 + Ant.2

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.4 PK	74.0	-7.6	1.13 H	132	33.95	32.45
2	2390.00	53.5 AV	54.0	-0.5	1.13 H	132	21.05	32.45
3	*2422.00	101.8 PK			1.12 H	135	69.23	32.57
4	*2422.00	93.2 AV			1.12 H	135	60.63	32.57

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





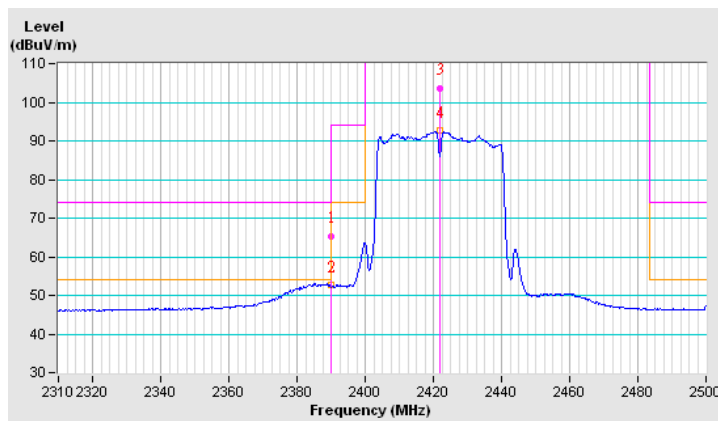
A D T

FINAL TEST DATE	May 18, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 3 / Ant.1 + Ant.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.2 PK	74.0	-8.8	1.26 V	345	32.75	32.45
2	2390.00	52.6 AV	54.0	-1.4	1.26 V	345	20.15	32.45
3	*2422.00	103.7 PK			1.29 V	351	71.13	32.57
4	*2422.00	92.6 AV			1.29 V	351	60.03	32.57

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





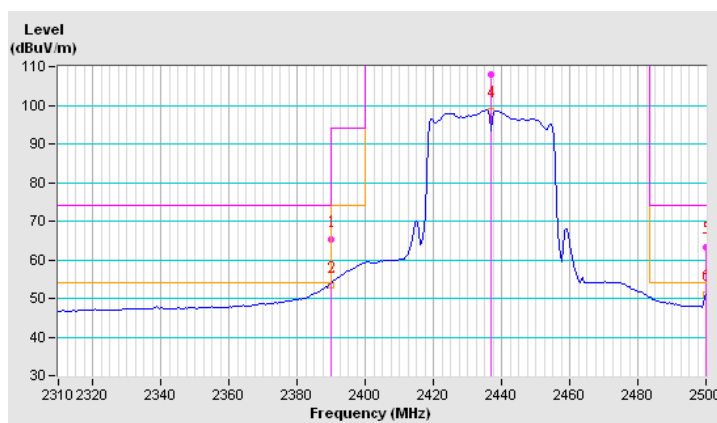
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 6 / Ant.1 + Ant.2

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.1 PK	74.0	-8.9	1.10 H	132	32.65	32.45
2	2390.00	53.3 AV	54.0	-0.7	1.10 H	132	20.85	32.45
3	*2437.00	108.1 PK			1.10 H	132	75.48	32.62
4	*2437.00	98.4 AV			1.10 H	132	65.78	32.62
5	2500.00	63.2 PK	74.0	-10.8	1.30 H	141	30.35	32.85
6	2500.00	51.1 AV	54.0	-2.9	1.30 H	141	18.25	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





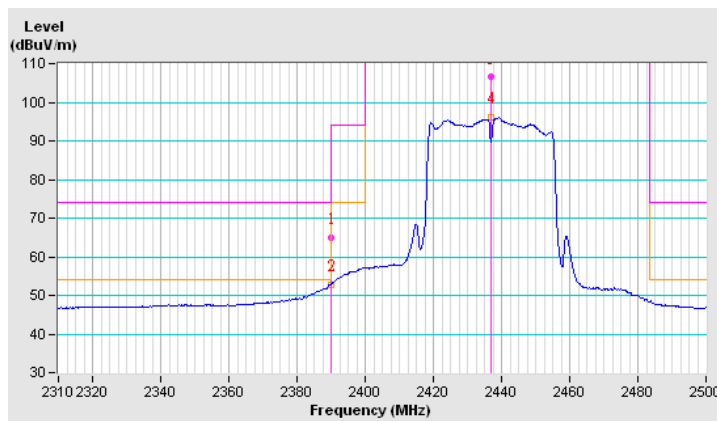
A D T

FINAL TEST DATE	May 18, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 6 / Ant.1 + Ant.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.0 PK	74.0	-9.0	1.34 V	352	32.55	32.45
2	2390.00	52.8 AV	54.0	-1.2	1.34 V	352	20.35	32.45
3	*2437.00	106.5 PK			1.30 V	328	73.88	32.62
4	*2437.00	96.1 AV			1.30 V	328	63.48	32.62

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





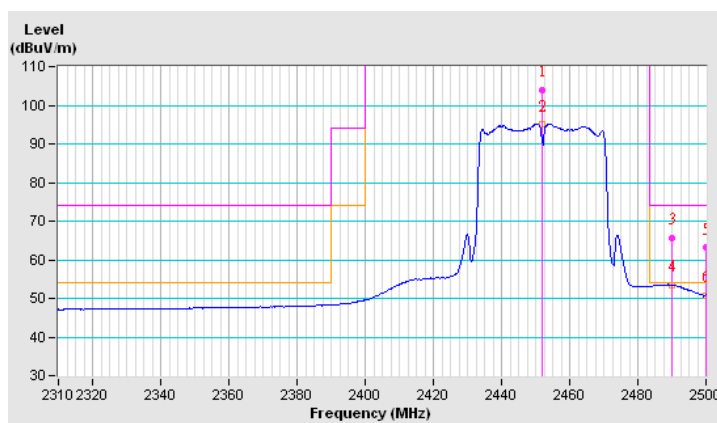
A D T

FINAL TEST DATE	May 06, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 9 / Ant.1 + Ant.2

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	103.9 PK			1.25 H	125	70.19	33.71
2	*2452.00	95.0 AV			1.25 H	125	61.29	33.71
3	2490.00	65.6 PK	74.0	-8.4	1.25 H	125	31.77	33.83
4	2490.00	53.4 AV	54.0	-0.6	1.25 H	125	19.57	33.83
5	2500.00	63.1 PK	74.0	-10.9	1.31 H	41	29.24	33.86
6	2500.00	50.8 AV	54.0	-3.2	1.31 H	41	16.94	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





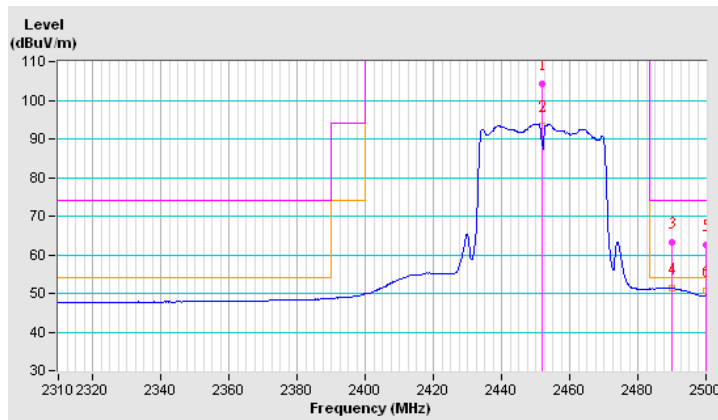
A D T

FINAL TEST DATE	May 06, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 9 / Ant.1 + Ant.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	104.4 PK			1.25 V	5	70.69	33.71
2	*2452.00	93.4 AV			1.25 V	5	59.69	33.71
3	2490.00	63.3 PK	74.0	-10.7	1.25 V	5	29.47	33.83
4	2490.00	51.3 AV	54.0	-2.7	1.25 V	5	17.47	33.83
5	2500.00	62.6 PK	74.0	-11.4	1.11 V	72	28.74	33.86
6	2500.00	50.7 AV	54.0	-3.3	1.11 V	72	16.84	33.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





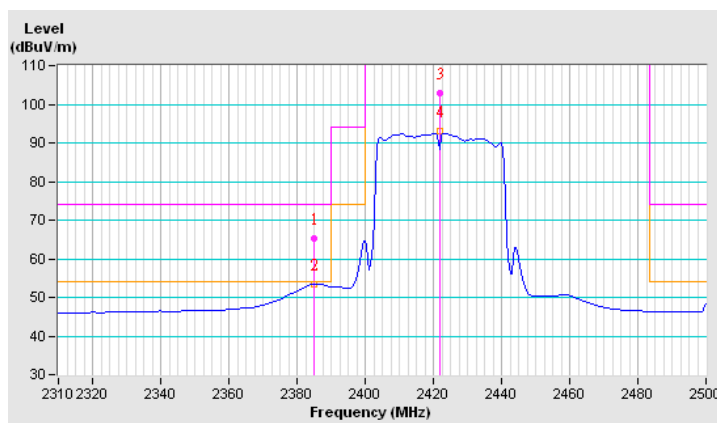
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 3 / Ant.1 + Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2385.00	65.3 PK	74.0	-8.7	1.09 H	48	32.87	32.43
2	2385.00	53.4 AV	54.0	-0.6	1.09 H	48	20.97	32.43
3	*2422.00	102.9 PK			1.09 H	49	70.33	32.57
4	*2422.00	93.1 AV			1.09 H	49	60.53	32.57

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





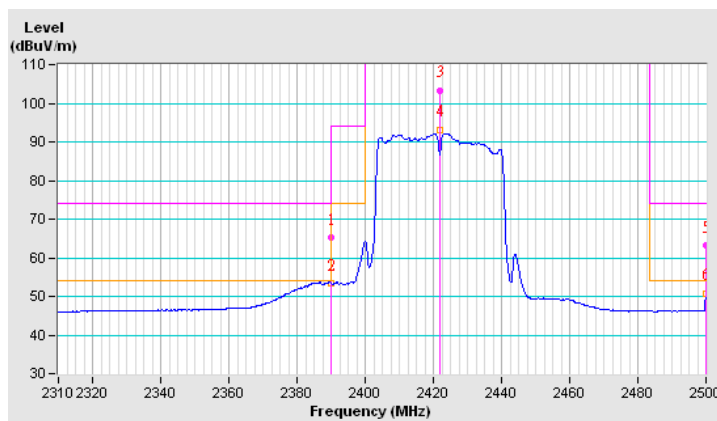
A D T

FINAL TEST DATE	May 18, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 3 / Ant.1 + Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.1 PK	74.0	-8.9	1.00 V	50	32.65	32.45
2	2390.00	53.3 AV	54.0	-0.7	1.00 V	50	20.85	32.45
3	*2422.00	103.2 PK			1.00 V	58	70.63	32.57
4	*2422.00	93.0 AV			1.00 V	58	60.43	32.57
5	2500.00	63.1 PK	74.0	-10.9	1.10 V	58	30.25	32.85
6	2500.00	50.6 AV	54.0	-3.4	1.10 V	58	17.75	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





A D T

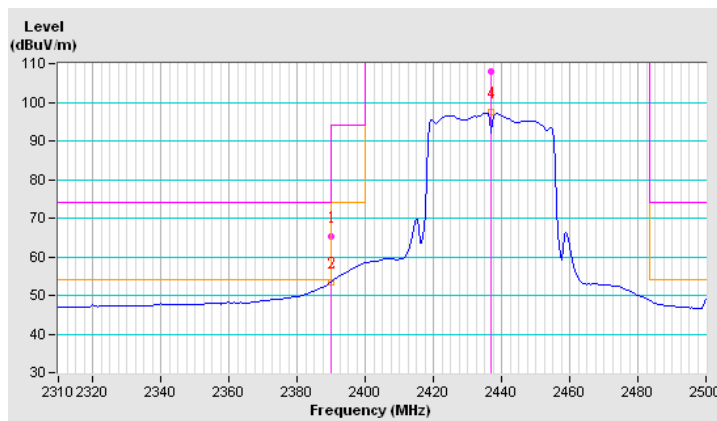
FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 6 / Ant.1 + Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	65.3 PK	74.0	-8.7	1.12 H	42	32.85	32.45
2	2390.00	53.5 AV	54.0	-0.5	1.12 H	42	21.05	32.45
3	*2437.00	108.1 PK			1.12 H	52	75.48	32.62
4	*2437.00	97.4 AV			1.12 H	52	64.78	32.62

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





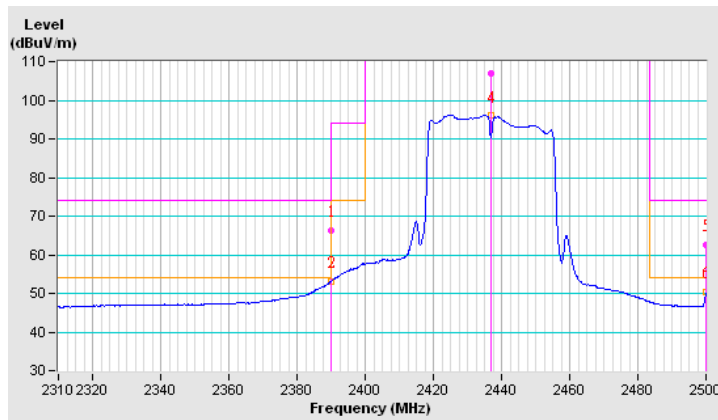
A D T

FINAL TEST DATE	May 18, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 6 / Ant.1 + Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.3 PK	74.0	-7.7	1.00 V	60	33.85	32.45
2	2390.00	53.1 AV	54.0	-0.9	1.00 V	60	20.65	32.45
3	*2437.00	106.8 PK			1.00 V	60	74.18	32.62
4	*2437.00	96.0 AV			1.00 V	60	63.38	32.62
5	2500.00	62.7 PK	74.0	-11.3	1.00 V	56	29.85	32.85
6	2500.00	50.3 AV	54.0	-3.7	1.00 V	56	17.45	32.85

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





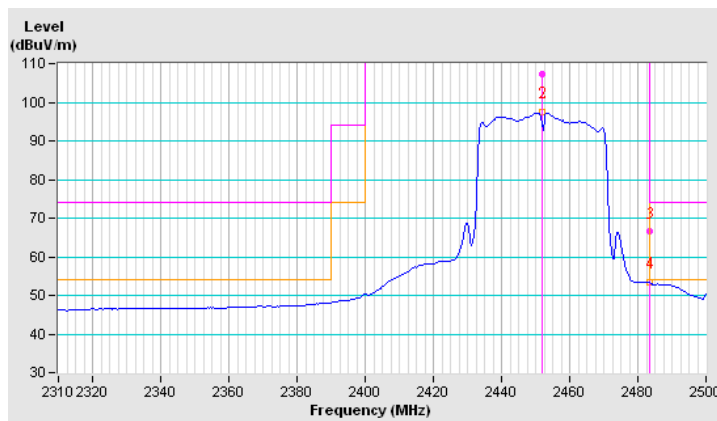
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 9 / Ant.1 + Ant.4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	107.4 PK			1.08 H	46	74.72	32.68
2	*2452.00	97.5 AV			1.08 H	46	64.82	32.68
3	2483.50	66.5 PK	74.0	-7.5	1.06 H	46	33.71	32.79
4	2483.50	53.4 AV	54.0	-0.6	1.06 H	46	20.61	32.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





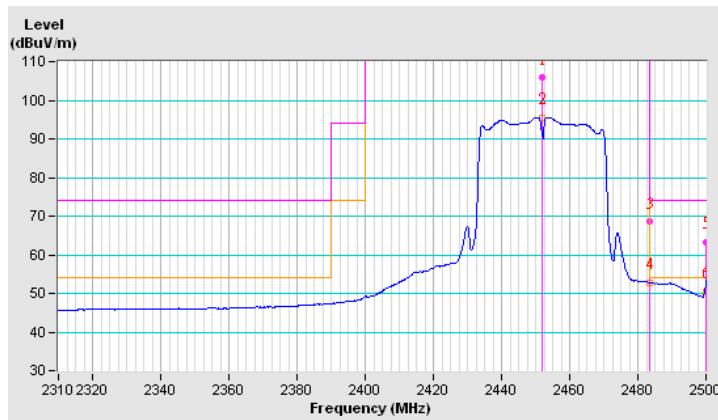
A D T

FINAL TEST DATE	May 18, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 9 / Ant.1 + Ant.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.8 PK			1.17 V	61	73.12	32.68
2	*2452.00	95.5 AV			1.17 V	61	62.82	32.68
3	2483.50	68.5 PK	74.0	-5.5	1.17 V	64	35.71	32.79
4	2483.50	52.7 AV	54.0	-1.3	1.17 V	64	19.91	32.79
5	2500.00	63.3 PK	74.0	-10.7	1.17 V	60	30.45	32.85
6	2500.00	50.4 AV	54.0	-3.6	1.17 V	60	17.55	32.85

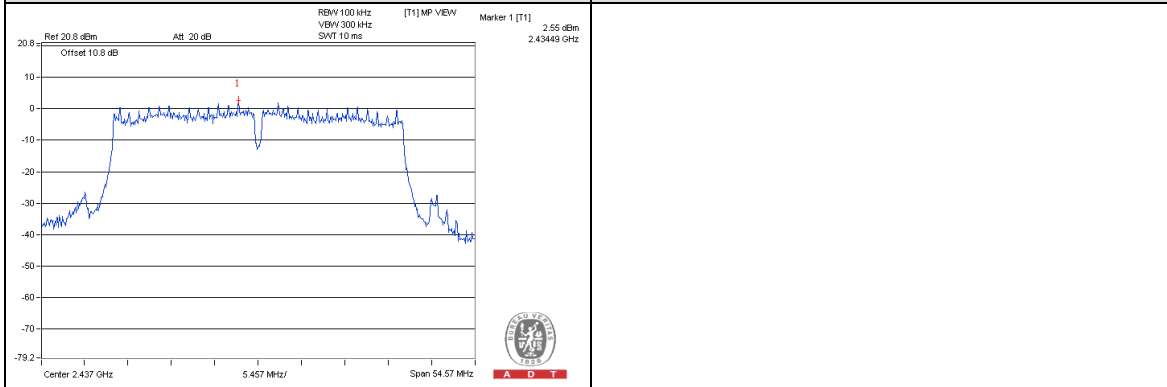
REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.



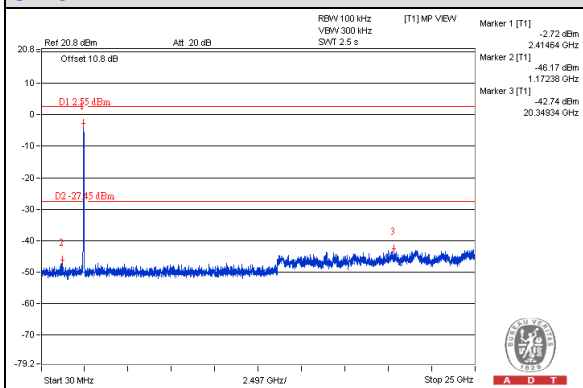
802.11n(40MHz, MCS8) / Ant.1 & Ant.4 (Reference Level)

Maximum REF

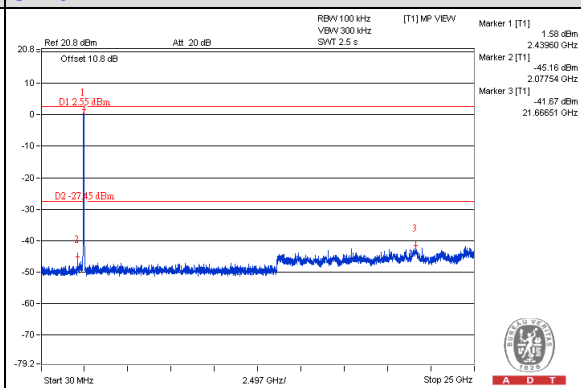


802.11n(40MHz, MCS8) (down 30dBc) / Ant.1

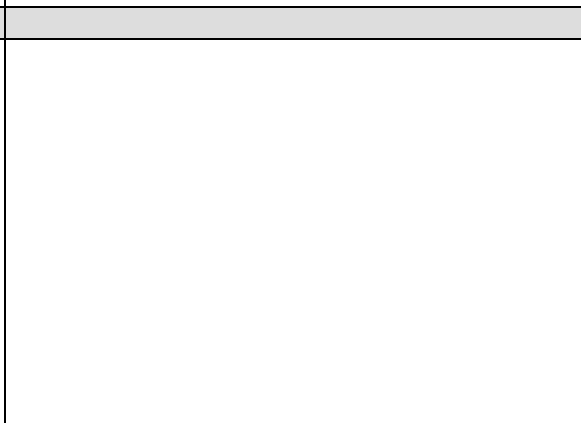
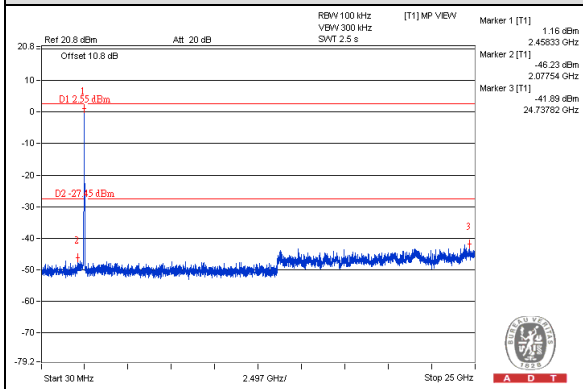
CH 3



CH 6



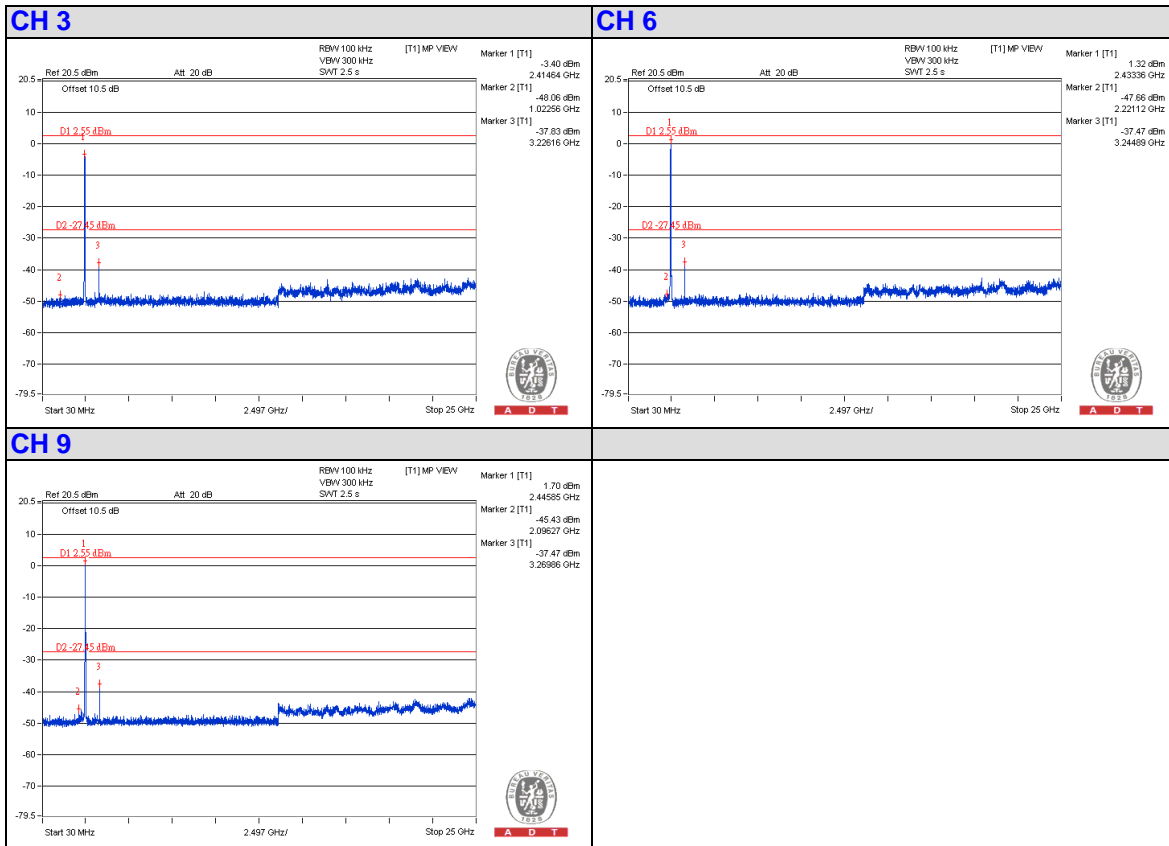
CH 9





A D T

802.11n(40MHz, MCS8) (down 30dBc) /Ant.4





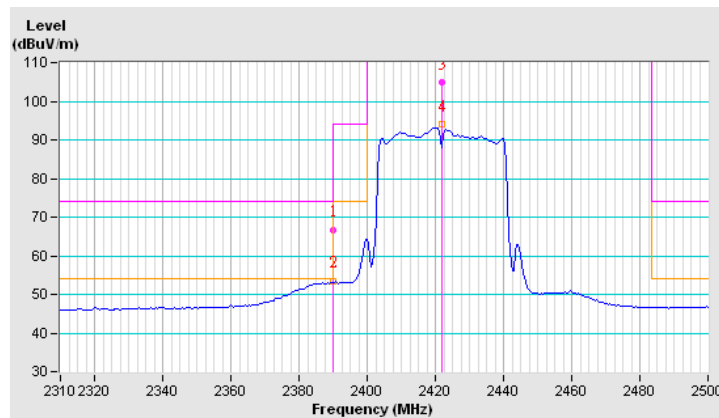
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 3 / Ant.1 + Ant.2 + Ant. 4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.6 PK	74.0	-7.4	1.38 H	238	34.15	32.45
2	2390.00	53.5 AV	54.0	-0.5	1.38 H	238	21.05	32.45
3	*2422.00	104.8 PK			1.34 H	238	72.23	32.57
4	*2422.00	93.9 AV			1.34 H	238	61.33	32.57

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.





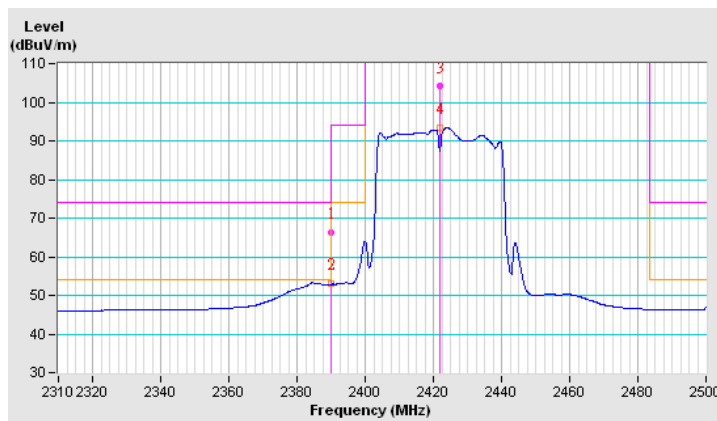
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	26 °C	HUMIDITY	68 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 3 / Ant.1 + Ant.2 + Ant. 4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.4 PK	74.0	-7.6	1.28 V	11	33.95	32.45
2	2390.00	53.1 AV	54.0	-0.9	1.28 V	11	20.65	32.45
3	*2422.00	104.1 PK			1.28 V	10	71.53	32.57
4	*2422.00	93.4 AV			1.28 V	10	60.83	32.57

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





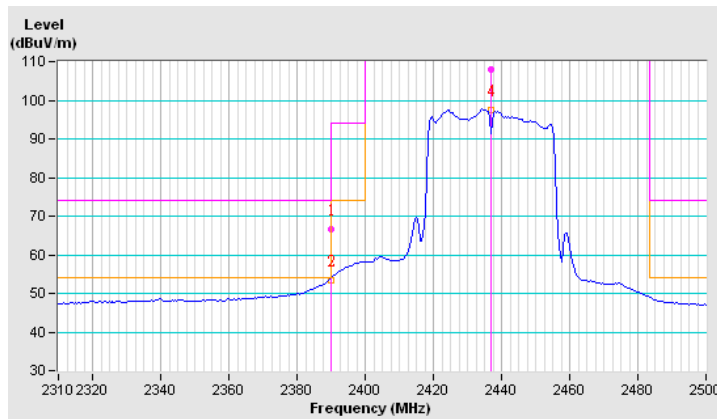
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 6 / Ant.1 + Ant.2 + Ant. 4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	66.6 PK	74.0	-7.4	1.38 H	238	34.15	32.45
2	2390.00	53.4 AV	54.0	-0.6	1.38 H	238	20.95	32.45
3	*2437.00	108.1 PK			1.38 H	238	75.48	32.62
4	*2437.00	97.4 AV			1.38 H	238	64.78	32.62

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





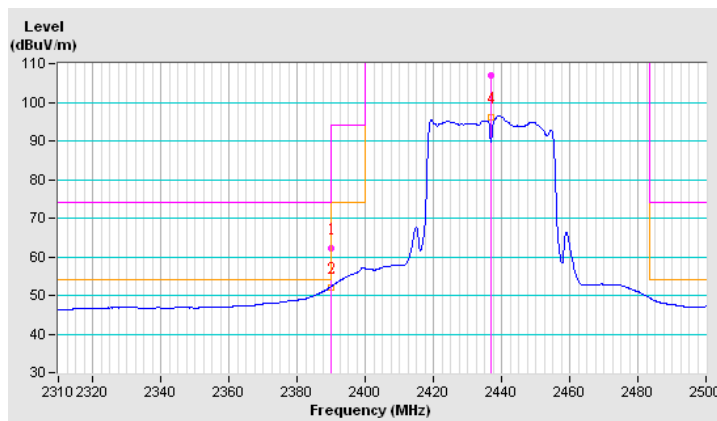
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	26 °C	HUMIDITY	68 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 6 / Ant.1 + Ant.2 + Ant. 4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	62.3 PK	74.0	-11.7	1.28 V	10	29.85	32.45
2	2390.00	52.2 AV	54.0	-1.8	1.28 V	10	19.75	32.45
3	*2437.00	106.9 PK			1.28 V	11	74.28	32.62
4	*2437.00	96.1 AV			1.28 V	11	63.48	32.62

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





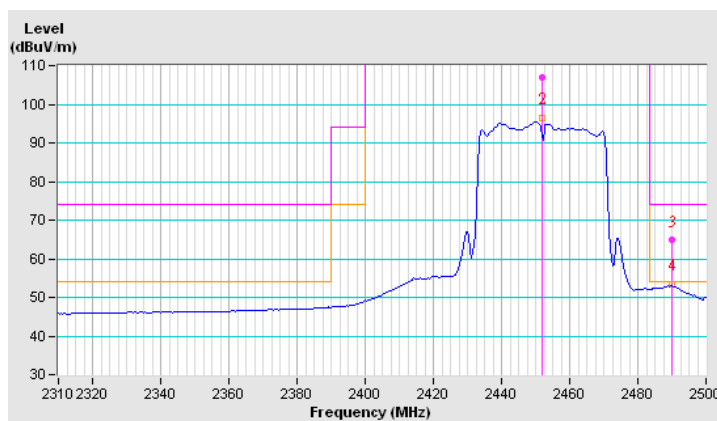
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 9 / Ant.1 + Ant.2 + Ant. 4

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	106.9 PK			1.30 H	87	74.22	32.68
2	*2452.00	96.4 AV			1.30 H	87	63.72	32.68
3	2490.00	64.8 PK	74.0	-9.2	1.27 H	107	31.99	32.81
4	2490.00	53.4 AV	54.0	-0.6	1.27 H	107	20.59	32.81

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.





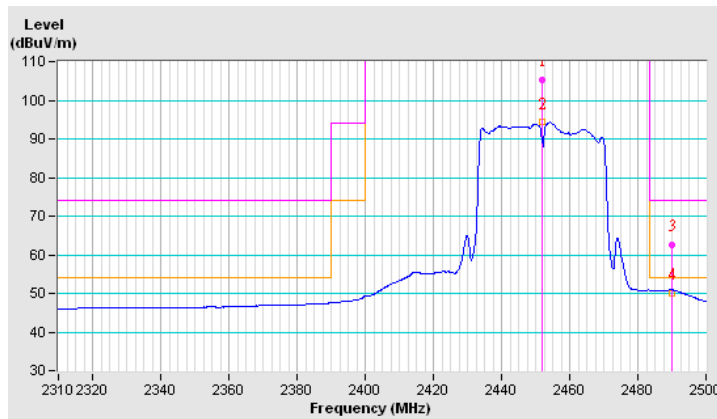
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	26 °C	HUMIDITY	68 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 9 / Ant.1 + Ant.2 + Ant. 4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2452.00	105.3 PK			1.31 V	21	72.62	32.68
2	*2452.00	94.3 AV			1.31 V	21	61.62	32.68
3	2490.00	62.5 PK	74.0	-11.5	1.35 V	22	29.69	32.81
4	2490.00	50.1 AV	54.0	-3.9	1.35 V	22	17.29	32.81

REMARKS:

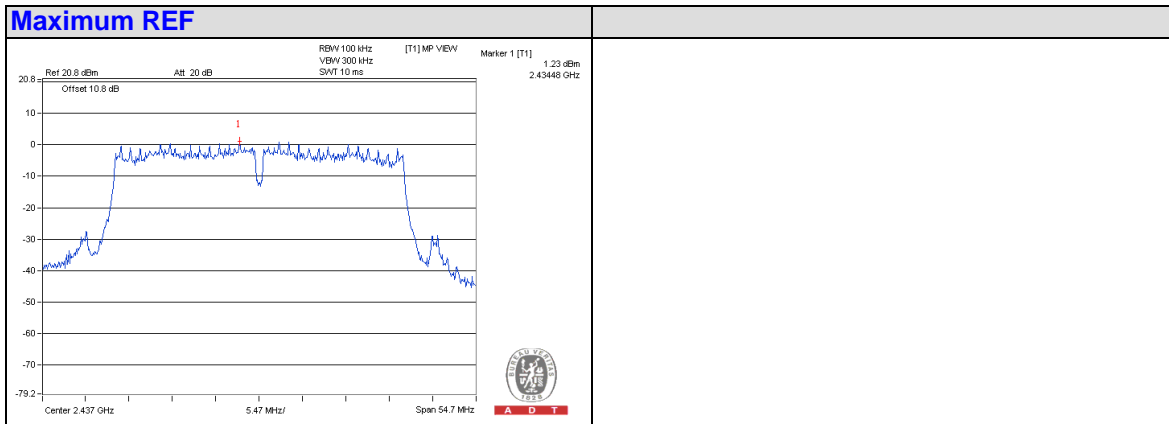
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.



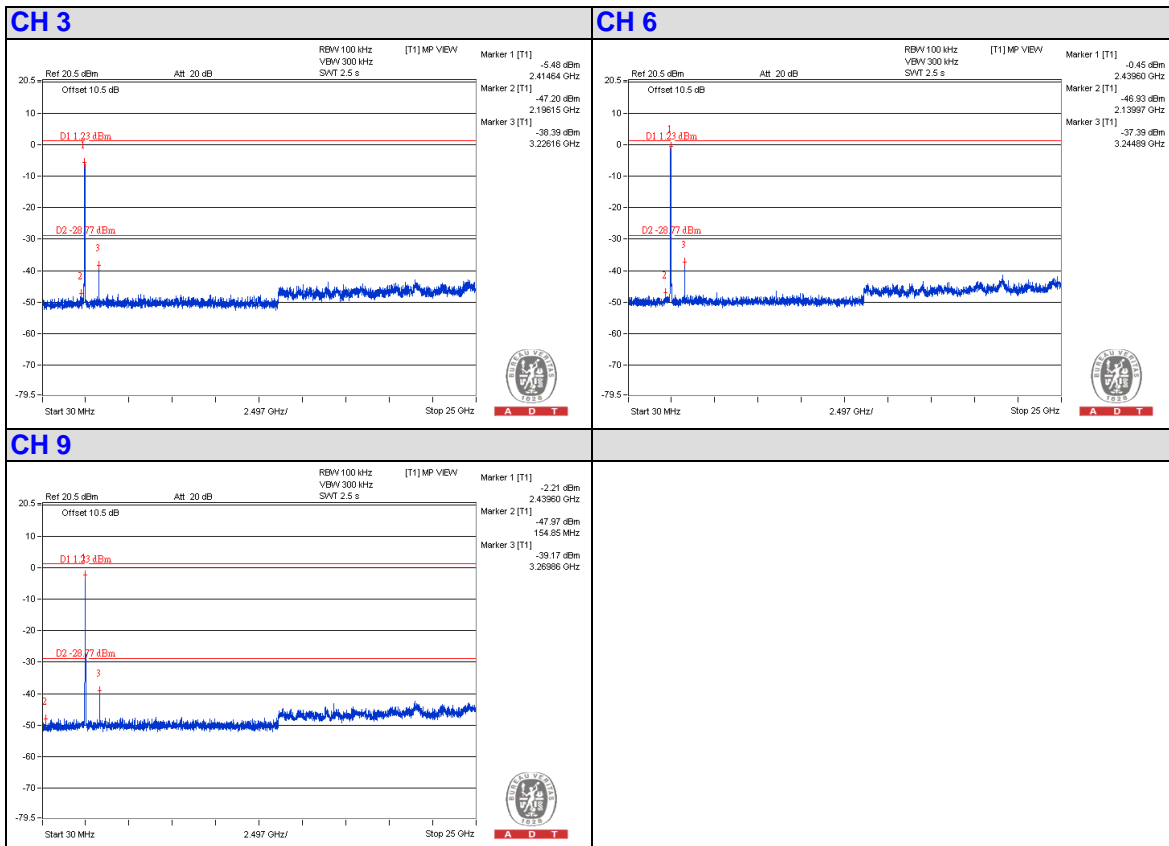


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802.11n(40MHz, MCS16) / Ant.1 & Ant.2 & Ant.4 (Reference Level)



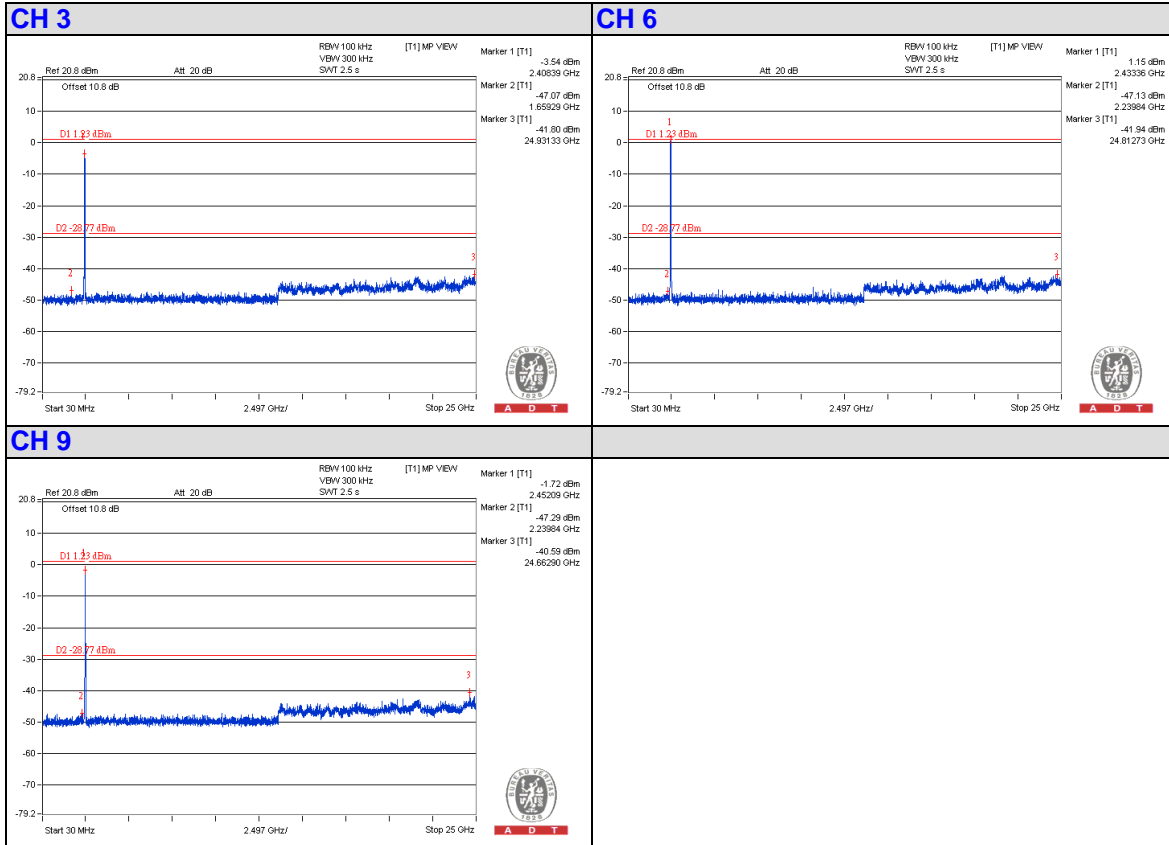
802.11n(40MHz, MCS16) (down 30dBc) / Ant.1





A D T

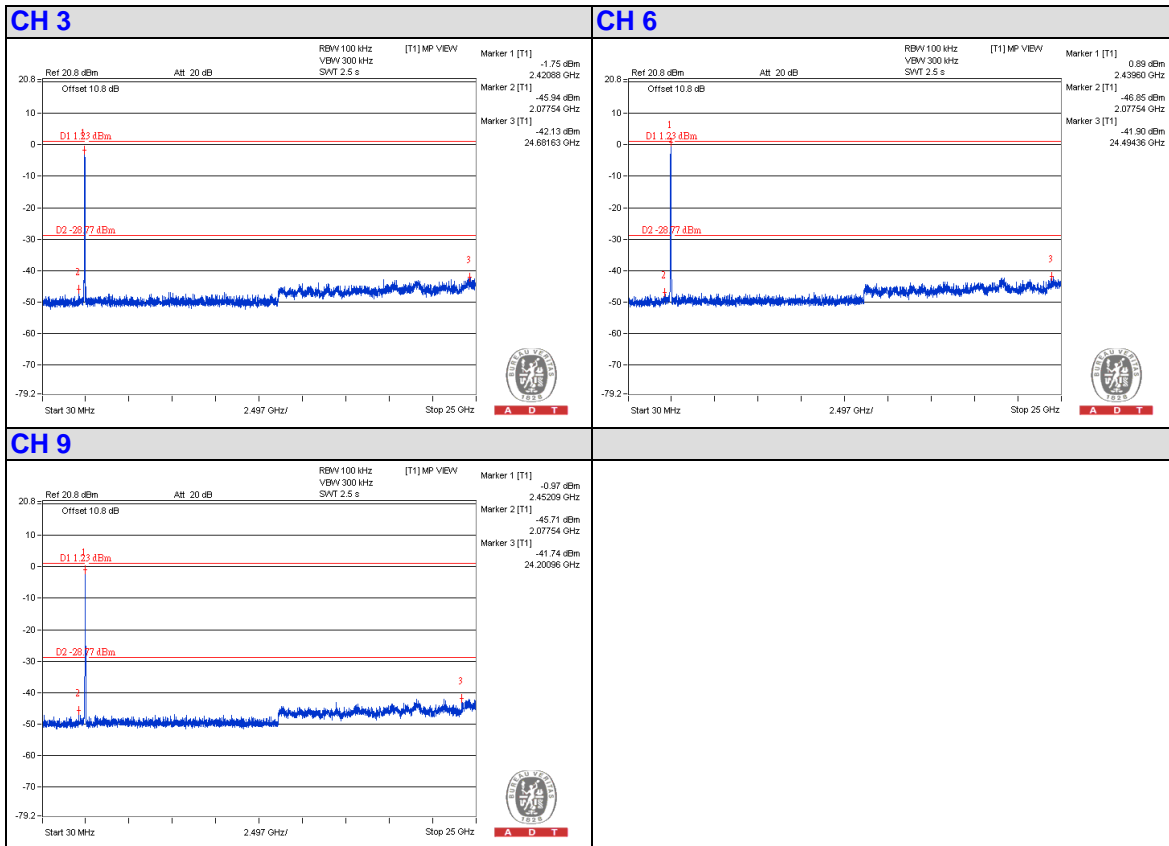
802.11n(40MHz, MCS16) (down 30dBc) / Ant.2





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802.11n(40MHz, MCS16) (down 30dBc) / Ant.4





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4.7 ANTENNA REQUIREMENTS

4.7.1 LIMITS

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.7.2 ANTENNA CONNECTOR CONSTRUCTION

Please refer to section 3.2 in this test report; antenna connector complied with the requirements.



5. TEST 5GHz BAND 4 RESULTS

5.1 AC POWER LINE CONDUCTED EMISSION MEASUREMENT

5.1.1 LIMITS

For this product which is designed to be connected to the AC power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed below limits table.

Frequency (MHz)	QP Limit (dBuV)	AV Limit (dBuV)
0.15~0.5	66~56	56~46
0.5~5	56	46
5~30	60	50

5.1.2 MEASURING INSTRUMENTS AND SETTING

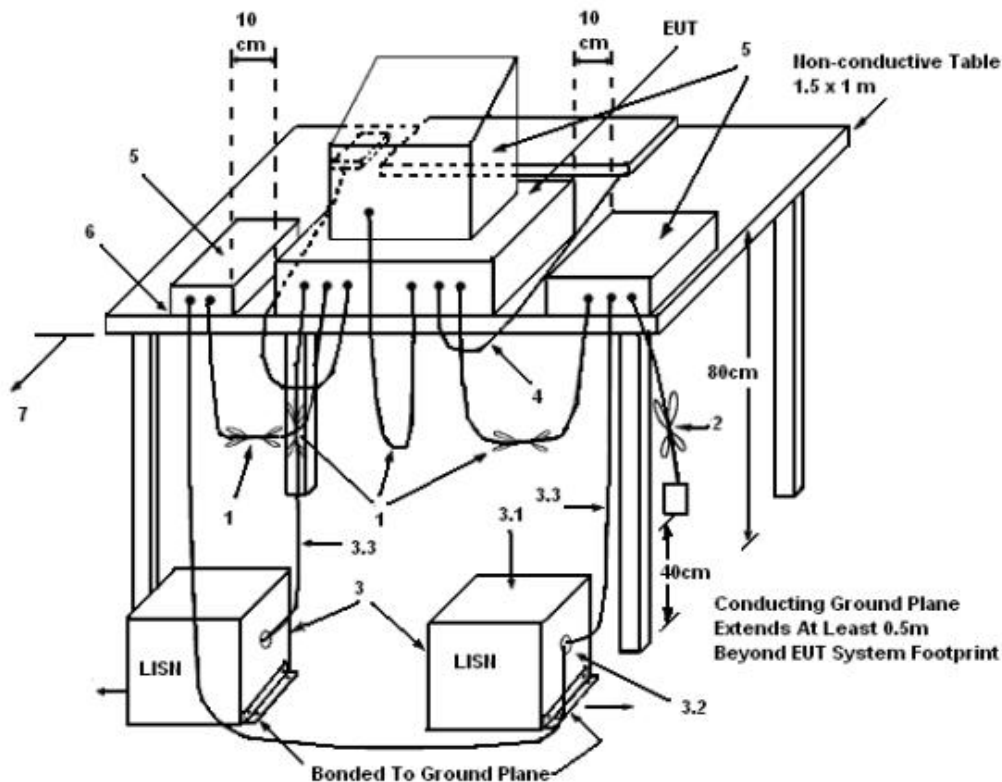
Please refer to section 6 of equipments list in this report. The following table is the setting of the receiver.

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

5.1.3 TEST PROCEDURES

1. Configure the EUT according to ANSI C63.10. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
4. The frequency range from 150 kHz to 30 MHz was searched.
5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. The measurement has to be done between each power line and ground at the power terminal.

5.1.4 TEST SETUP LAYOUT



LEGEND:

1. 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.
2. 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.
3. EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω . LISN can be placed on top of, or immediately beneath, reference ground plane.
 - (3.1) All other equipment powered from additional LISN(s).
 - (3.2) Multiple outlet strip can be used for multiple power cords of non-EUT equipment.
 - (3.3) LISN at least 80 cm from nearest part of EUT chassis.
4. Cables of hand-operated devices, such as keyboards, mice, etc., shall be placed as for normal use.
5. Non-EUT components of EUT system being tested.
6. Rear of EUT, including peripherals, shall all be aligned and flush with rear of tabletop.
7. Rear of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.

5.1.5 TEST DEVIATION

There is no deviation with the original standard.

5.1.6 EUT OPERATING DURING TEST

The EUT was placed on the test table and programmed in normal function.



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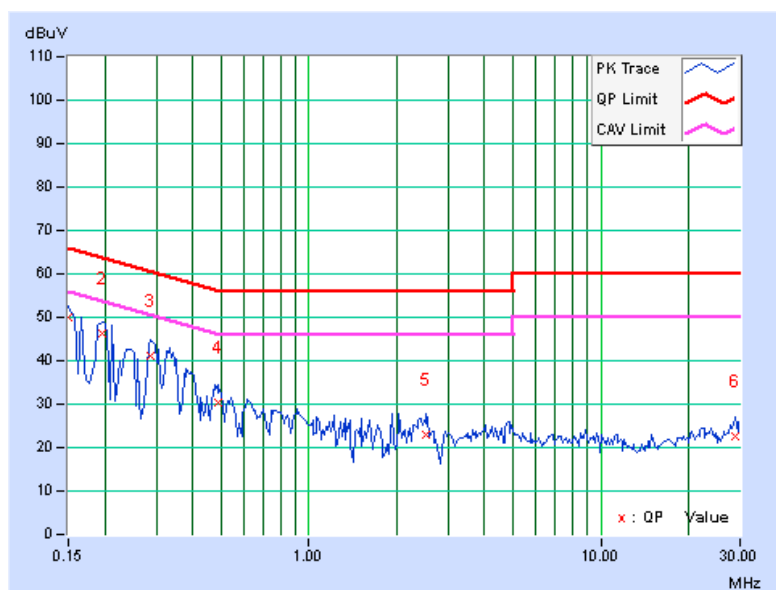
5.1.7 RESULTS OF AC POWER LINE CONDUCTED EMISSION MEASUREMENT

TEMPERATURE	25 °C	HUMIDITY	70 %
TEST ENGINEER	Mike Hsieh	PHASE	Line (L)
CONFIGURATION	802.11n(20MHz, MCS16) CH 149 / Ant.1 + Ant.2 + Ant.3		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
	1	0.15000	0.10	49.90	37.47	50.00	37.57	66.00	56.00	-16.00
2	0.19687	0.11	46.12	36.04	46.23	36.15	63.74	53.74	-17.51	-17.59
3	0.28672	0.12	41.10	31.55	41.22	31.67	60.62	50.62	-19.40	-18.95
4	0.48594	0.14	30.06	22.28	30.20	22.42	56.24	46.24	-26.04	-23.82
5	2.52344	0.24	22.80	16.72	23.04	16.96	56.00	46.00	-32.96	-29.04
6	28.90234	1.26	21.38	17.51	22.64	18.77	60.00	50.00	-37.36	-31.23

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value





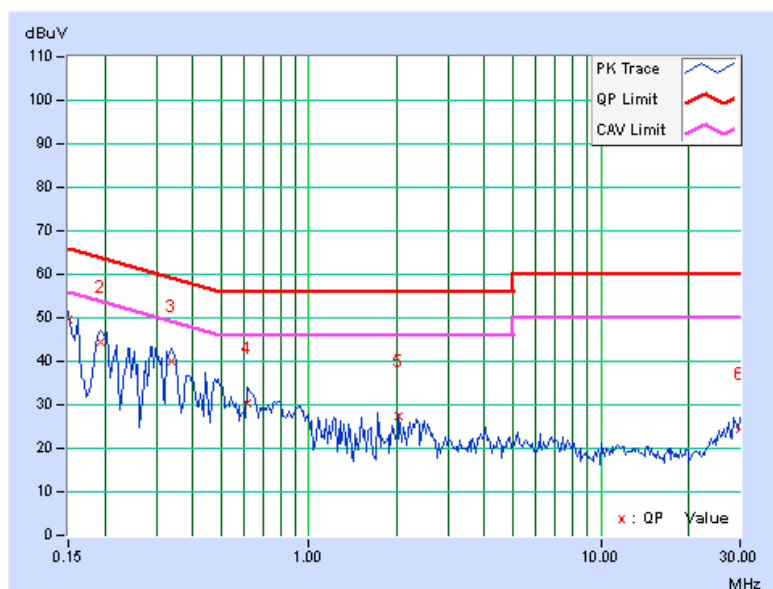
A D T

TEMPERATURE	25 °C	HUMIDITY	70 %
TEST ENGINEER	Mike Hsieh	PHASE	Neutral (N)
CONFIGURATION	802.11n(20MHz, MCS16) CH 149 / Ant.1 + Ant.2 + Ant.3		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
	1	0.15000	0.08	49.70	36.96	49.78	37.04	66.00	56.00	-16.22
2	0.19297	0.09	44.20	35.19	44.29	35.28	63.91	53.91	-19.62	-18.63
3	0.33750	0.11	39.77	32.99	39.88	33.10	59.26	49.26	-19.38	-16.16
4	0.61484	0.13	30.20	18.72	30.33	18.85	56.00	46.00	-25.67	-27.15
5	2.02734	0.19	27.07	26.03	27.26	26.22	56.00	46.00	-28.74	-19.78
6	29.91797	0.91	23.66	19.80	24.57	20.71	60.00	50.00	-35.43	-29.29

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



5.2 CONDUCTED OUTPUT POWER MEASUREMENT

5.2.1 LIMITS

For systems using digital modulation in the 5725-5850MHz, the limit for peak output power is 30dBm. The limit has to be reduced by the amount in dB that the gain of the antenna exceed 6dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

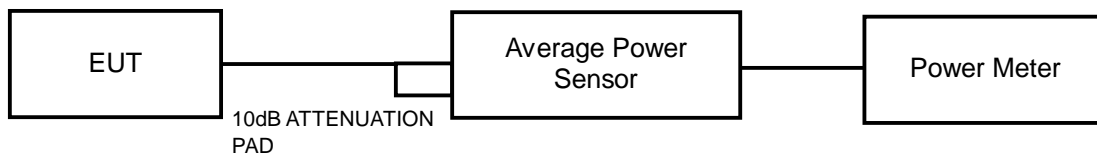
5.2.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 6 of equipments list in this report.

5.2.3 TEST PROCEDURES

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the average power sensor and enable the trigger function to get the all on time transmission. Record the average power level.

5.2.4 TEST SETUP LAYOUT



5.2.5 TEST DEVIATION

There is no deviation with the original standard.

5.2.6 EUT OPERATING DURING TEST

The EUT was programmed to be in continuously transmitting mode.



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5.2.7 TEST RESULT OF CONDUCTED OUTPUT POWER

FINAL TEST DATE	May 23 to 24, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11a
DUTY CYCLE	98.8%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11a<Ant. 1>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
149	5745	193.642	22.87	30	PASS
157	5785	231.739	23.65	30	PASS
165	5825	213.304	23.29	30	PASS

802.11a<Ant. 2>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
149	5745	157.036	21.96	30	PASS
157	5785	142.889	21.55	30	PASS
165	5825	135.207	21.31	30	PASS

802.11a<Ant. 3>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
149	5745	210.863	23.24	30	PASS
157	5785	257.632	24.11	30	PASS
165	5825	240.436	23.81	30	PASS



A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (20MHz, MCS0)
DUTY CYCLE	99.1%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11n(20MHz, MCS0)<Ant. 1>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
149	5745	193.197	22.86	30	PASS
157	5785	166.341	22.21	30	PASS
165	5825	162.555	22.11	30	PASS

802.11n(20MHz, MCS0)<Ant. 2>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
149	5745	164.059	22.15	30	PASS
157	5785	138.995	21.43	30	PASS
165	5825	164.816	22.17	30	PASS

802.11n(20MHz, MCS0)<Ant. 3>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
149	5745	202.768	23.07	30	PASS
157	5785	185.353	22.68	30	PASS
165	5825	179.887	22.55	30	PASS



A D T

FINAL TEST DATE	May 24, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (20MHz, MCS8)
DUTY CYCLE	97.6%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11n(20MHz, MCS8)<Ant. 1+ Ant. 2>

CHAN.	FREQUE NCY (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 1	Ant. 2				
149	5745	20.22	20.52	217.916	23.38	30	PASS
157	5785	20.11	20.34	210.708	23.24	30	PASS
165	5825	21.21	21.52	274.036	24.38	30	PASS

802.11n(20MHz, MCS8)<Ant. 1+ Ant. 3>

CHAN.	FREQUE NCY (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 1	Ant. 3				
149	5745	21.23	21.26	266.399	24.26	30	PASS
157	5785	20.63	20.96	240.349	23.81	30	PASS
165	5825	20.56	20.67	230.444	23.63	30	PASS

802.11n(20MHz, MCS8)<Ant. 2+ Ant. 3>

CHAN.	FREQUE NCY (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 2	Ant. 3				
149	5745	20.28	20.53	219.640	23.42	30	PASS
157	5785	19.34	19.22	169.461	22.29	30	PASS
165	5825	19.84	19.75	190.789	22.81	30	PASS



A D T

FINAL TEST DATE	May 24, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (20MHz, MCS16)
DUTY CYCLE	97.4%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11n(20MHz, MCS16)< Ant. 1+ Ant. 2+ Ant. 3>

CHAN.	FREQUENCY (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 1	Ant. 2	Ant. 3				
149	5745	20.12	20.27	21.41	347.573	25.41	PASS	PASS
157	5785	18.64	18.72	19.72	241.343	23.83	PASS	PASS
165	5825	18.61	19.07	19.68	246.232	23.91	PASS	PASS



A D T

FINAL TEST DATE	May 24, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (40MHz, MCS0)
DUTY CYCLE	98%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11n(40MHz, MCS0)<Ant. 1>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
151	5755	126.183	21.01	30	PASS
159	5795	169.044	22.28	30	PASS

802.11n(40MHz, MCS0)<Ant. 2>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
151	5755	149.968	21.76	30	PASS
159	5795	157.398	21.97	30	PASS

802.11n(40MHz, MCS0)<Ant. 3>

CHANNEL	FREQUENCY (MHz)	AVERAGE POWER (mW)	AVERAGE POWER (dBm)	LIMIT (dBm)	PASS/FAIL
151	5755	128.529	21.09	30	PASS
159	5795	160.325	22.05	30	PASS



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FINAL TEST DATE	May 23 to 24, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (40MHz, MCS8)
DUTY CYCLE	96.9%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11n(40MHz, MCS8)<Ant. 1+ Ant. 2>

CHAN.	FREQUENCY (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 1	Ant. 2				
151	5755	20.37	20.52	221.613	23.46	30	PASS
159	5795	19.93	22.11	260.956	24.17	30	PASS

802.11n(40MHz, MCS8)<Ant. 1+ Ant. 3>

CHAN.	FREQUENCY (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 1	Ant. 3				
151	5755	21.35	21.57	280.007	24.47	30	PASS
159	5795	20.83	21.03	247.825	23.94	30	PASS

802.11n(40MHz, MCS8)<Ant. 2+ Ant. 3>

CHAN.	FREQUENCY (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 2	Ant. 3				
151	5755	19.29	19.56	175.283	22.44	30	PASS
159	5795	20.11	20.09	204.659	23.11	30	PASS



A D T

FINAL TEST DATE	May 24, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (40MHz, MCS16)
DUTY CYCLE	95.9%		

The power meter can be triggered/signal-gated such that the power is measured only when the EUT is transmitting at its maximum power control level.

802.11n(40MHz, MCS16)< Ant. 1+ Ant. 2+ Ant. 3>

CHAN.	FREQUENCY (MHz)	AVERAGE POWER (dBm)			TOTAL POWER (mW)	TOTAL POWER (dBm)	LIMIT (dBm)	PASS / FAIL
		Ant. 1	Ant. 2	Ant. 3				
151	5755	19.21	18.83	19.06	240.290	23.81	30	PASS
159	5795	18.07	18.54	18.74	210.388	23.23	30	PASS

5.3 POWER SPECTRAL DENSITY MEASUREMENT

5.3.1 LIMITS

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

5.3.2 MEASURING INSTRUMENTS AND SETTING

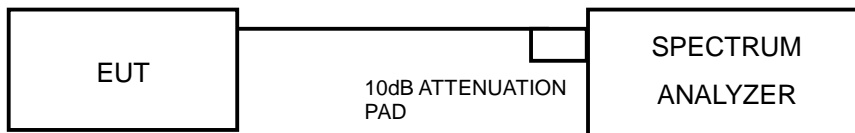
Please refer to section 6 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Power Meter Parameter	Setting
Attenuation	Auto
Span Frequency	Set the analyzer span to at least 1.5 times the DTS channel bandwidth.
RB	3 kHz
VB	10 kHz
Detector	RMS
Trace	Averaging(RMS) mode over a minimum of 100 traces
Sweep Time	Auto couple

5.3.3 TEST PROCEDURES

1. Test was performed in accordance with KDB558074 Guidance for Performing Compliance Measurements on Digital Transmission Systems(DTS) Operating under §15.247 section 5.3.2. Multiple antenna system was performed in accordance with KDB 662911 in-Band Power Spectral Density(PSD) Measurements(2) Measure and add $10\log(N)$ dB (as described in preceding section)
2. This measurement requires that EUT be configured to transmit continuously(at a minimum duty cycle of 98%) at full power over the measurement duration. Time intervals during which the transmitter is off or transmitting at reduced power levels shall not be included
3. Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$ (use of a greater number of measurement points than this minimum requirement is recommended).
4. Use the peak marker function to determine the maximum level in any 30 kHz band segment within the fundamental EBW.
5. Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $BWCF = 10\log(3 \text{ kHz}/30\text{kHz})$
6. The resulting PSD level must be ≤ 8 dBm.

5.3.4 TEST SETUP LAYOUT



5.3.5 TEST DEVIATION

There is no deviation with the original standard.

5.3.6 EUT OPERATING DURING TEST

The EUT was programmed to be in continuously transmitting mode.



A D T

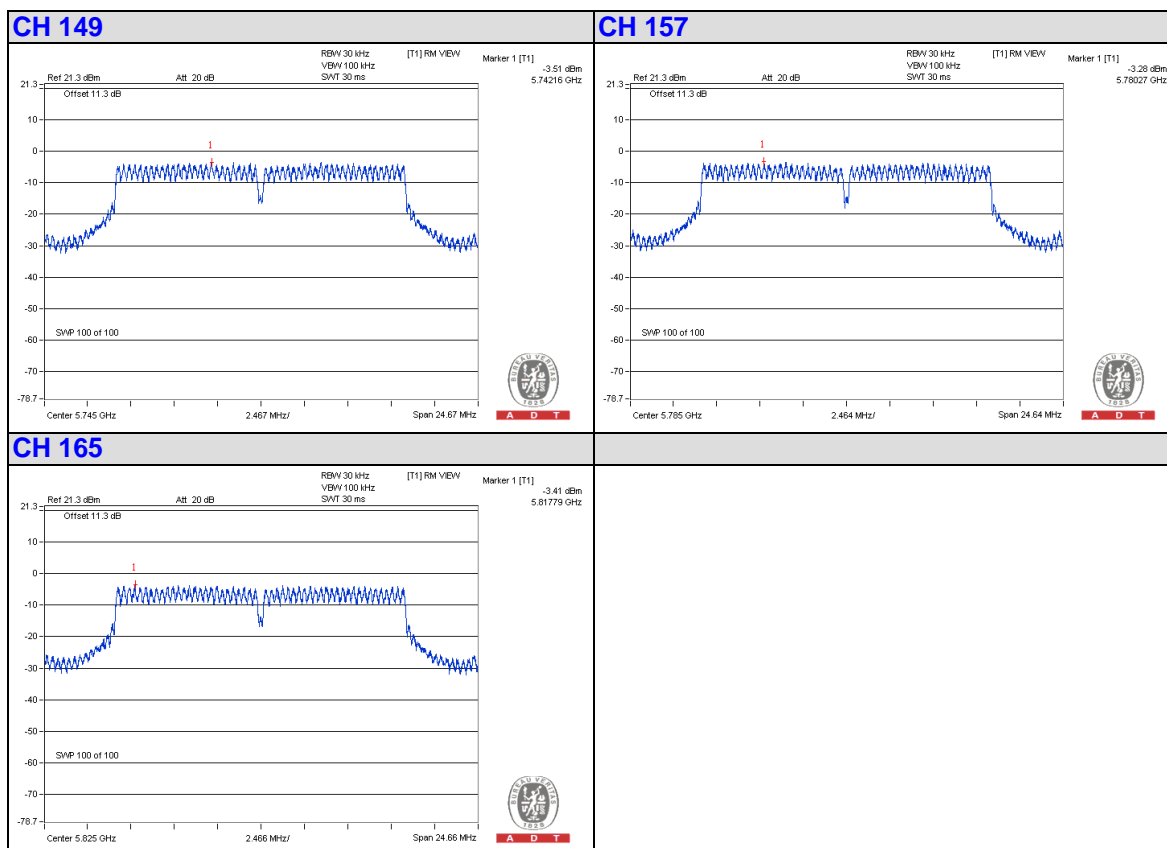
5.3.7 TEST RESULT OF POWER SPECTRAL DENSITY

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11a
DUTY CYCLE	98.8%	DUTY FACTOR	0.05 dB

802.11a< Ant. 3>

Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
149	5745	-3.51	-0.35	-0.30	8	PASS
157	5785	-3.28	-0.33	-0.28	8	PASS
165	5825	-3.41	-0.34	-0.29	8	PASS

Note: Power Density + duty factor = Total Power Density





A D T

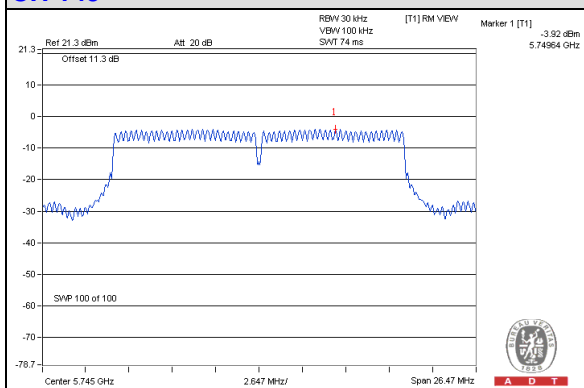
FINAL TEST DATE	May 23, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (20MHz, MCS0)
DUTY CYCLE	99.1%	DUTY FACTOR	0.04 dB

802.11n(20MHz, MCS0)< Ant. 3>

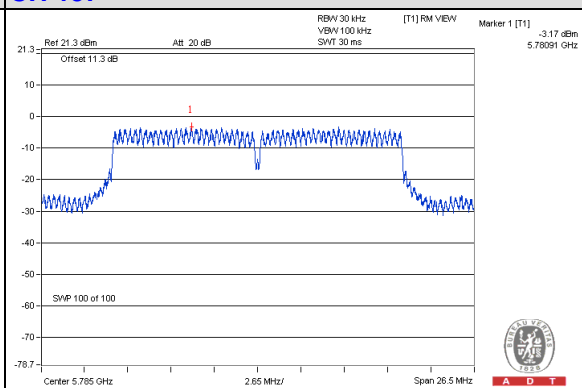
Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
149	5745	-3.92	-0.39	-0.35	8	PASS
157	5785	-3.17	-0.32	-0.28	8	PASS
165	5825	-3.64	-0.36	-0.32	8	PASS

Note: Power Density + duty factor = Total Power Density

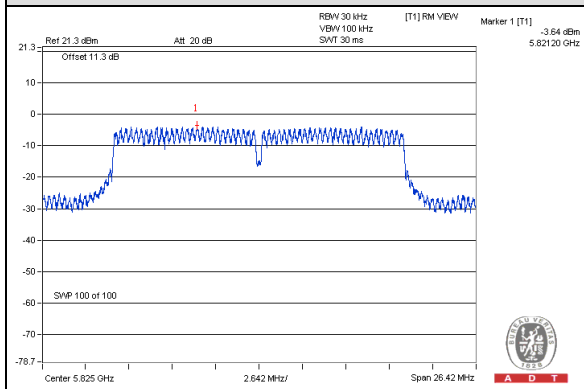
CH 149



CH 157



CH 165





A D T

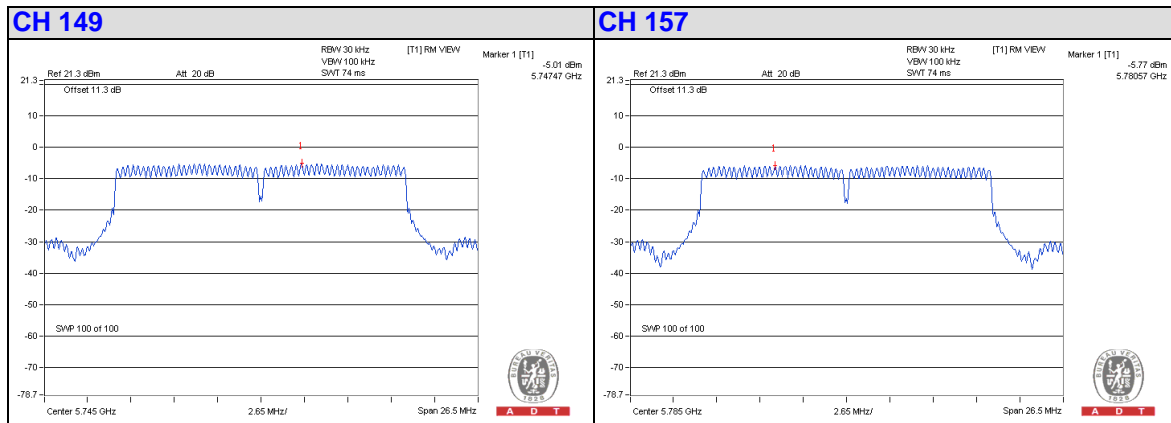
FINAL TEST DATE	May 24, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (20MHz, MCS8)
DUTY CYCLE	97.6%	DUTY FACTOR	0.11 dB

802.11n(20MHz, MCS8)<Ant. 1+ Ant. 3>

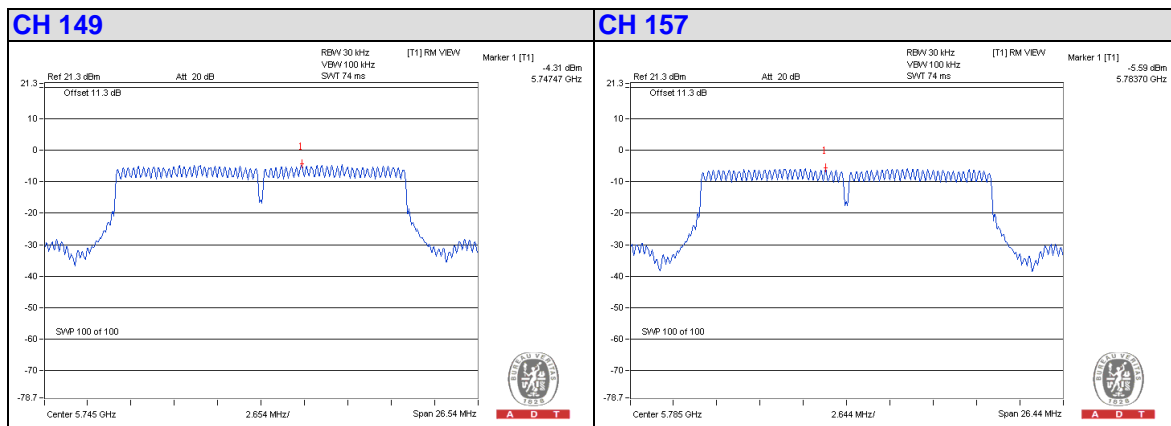
TX chain	Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
Ant. 1	149	5745	-5.01	-0.50	3.01	2.62	8	PASS
	157	5785	-5.77	-0.58	3.01	2.54	8	PASS
Ant. 3	149	5745	-4.31	-0.43	3.01	2.69	8	PASS
	157	5785	-5.59	-0.56	3.01	2.56	8	PASS

Note : Power Density + duty factor = Total Power Density

Ant. 1



Ant. 3





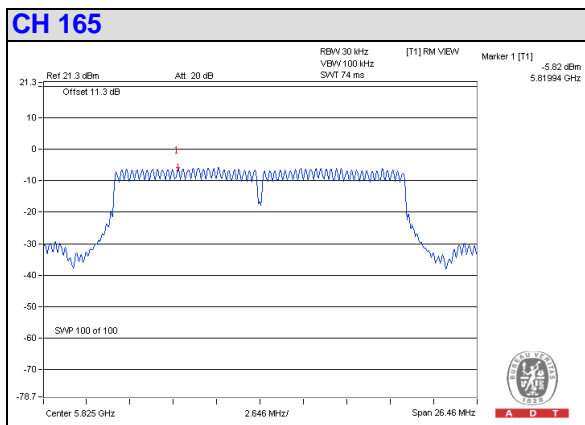
A D T

802.11n(20MHz, MCS8)<Ant. 1+ Ant. 2>

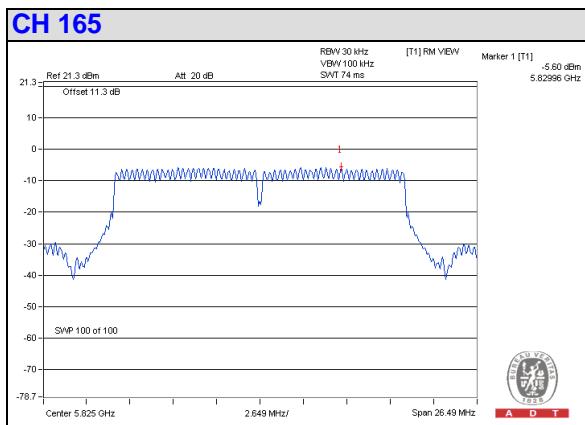
TX chain	Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
Ant. 1	165	5825	-5.82	-0.58	3.01	2.54	8	PASS
Ant. 2	165	5825	-5.60	-0.56	3.01	2.56	8	PASS

Note : Power Density + duty factor = Total Power Density

Ant. 1



Ant. 2





A D T

FINAL TEST DATE	May 24, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (20MHz, MCS16)
DUTY CYCLE	97.4%	DUTY FACTOR	0.11 dB

802.11n(20MHz, MCS16)< Ant. 1+ Ant. 2+ Ant. 3>

TX chain	Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
Ant. 1	149	5745	-6.94	-0.69	4.77	4.19	8	PASS
	157	5785	-9.16	-0.92	4.77	3.96	8	PASS
	165	5825	-8.77	-0.88	4.77	4.00	8	PASS
Ant. 2	149	5745	-6.94	-0.69	4.77	4.19	8	PASS
	157	5785	-8.37	-0.84	4.77	4.04	8	PASS
	165	5825	-8.53	-0.85	4.77	4.03	8	PASS
Ant. 3	149	5745	-6.00	-0.60	4.77	4.28	8	PASS
	157	5785	-7.95	-0.80	4.77	4.08	8	PASS
	165	5825	-7.67	-0.77	4.77	4.11	8	PASS

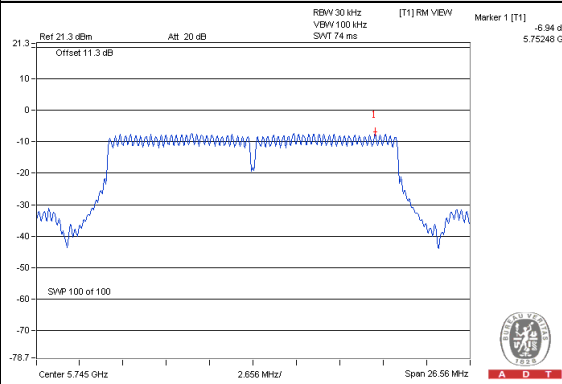
Note : Power Density + duty factor = Total Power Density



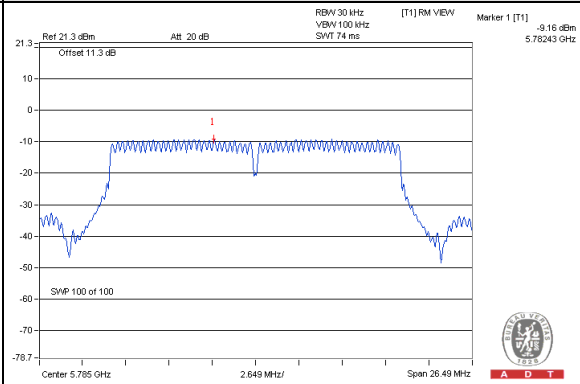
A D T

Ant. 1

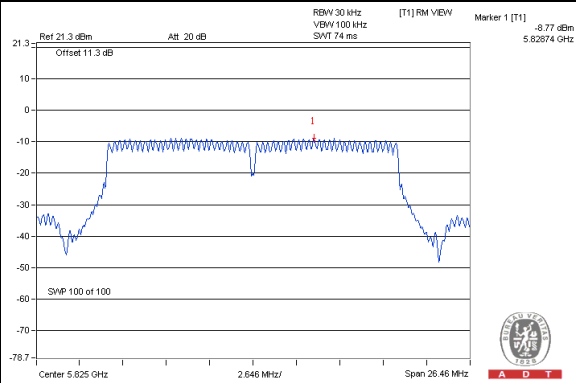
CH 149



CH 157



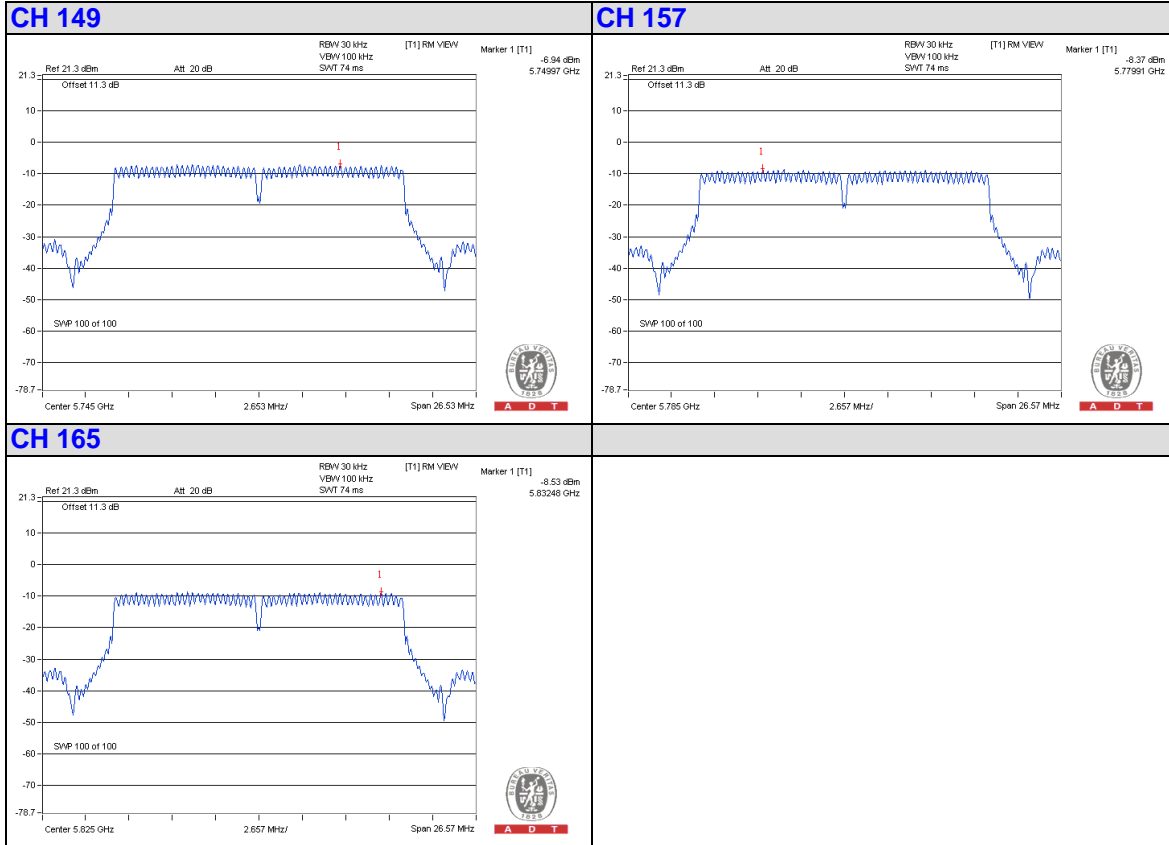
CH 165





A D T

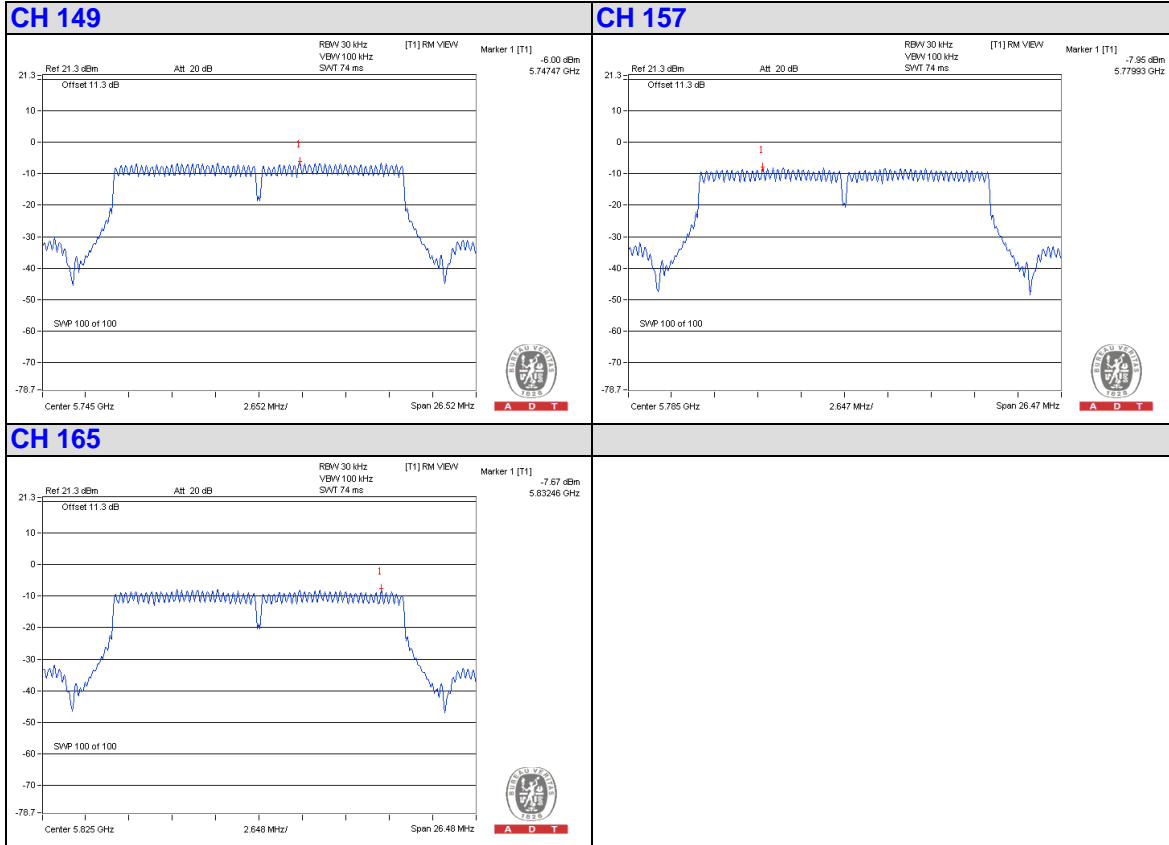
Ant. 2





A D T

Ant. 3





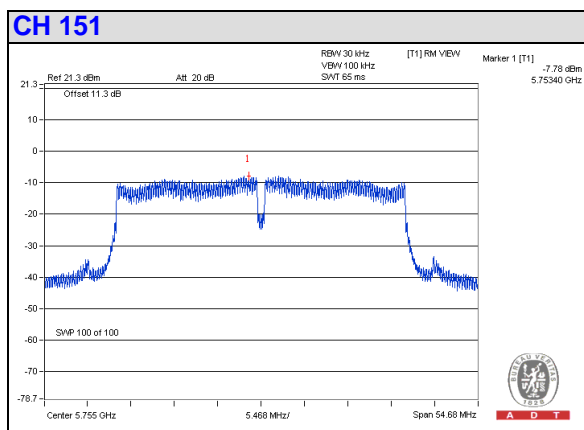
A D T

FINAL TEST DATE	May 24, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (40MHz, MCS0)
DUTY CYCLE	98%	DUTY FACTOR	0.09 dB

802.11n(40MHz, MCS0)< Ant. 2>

Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
151	5755	-7.78	-0.78	-0.69	8	PASS

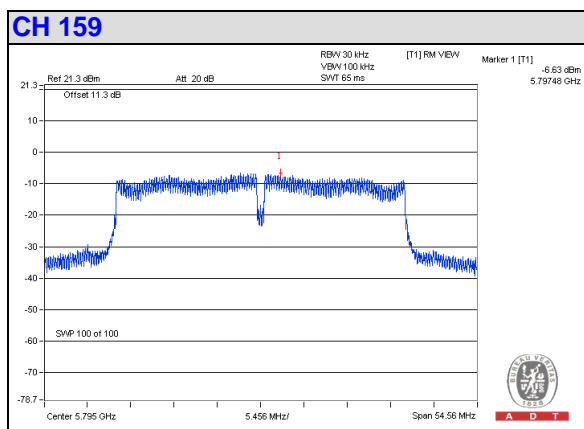
Note: Power Density + duty factor = Total Power Density



802.11n(40MHz, MCS0)< Ant. 1>

Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
159	5795	-6.63	-0.66	-0.57	8	PASS

Note: Power Density + duty factor = Total Power Density





A D T

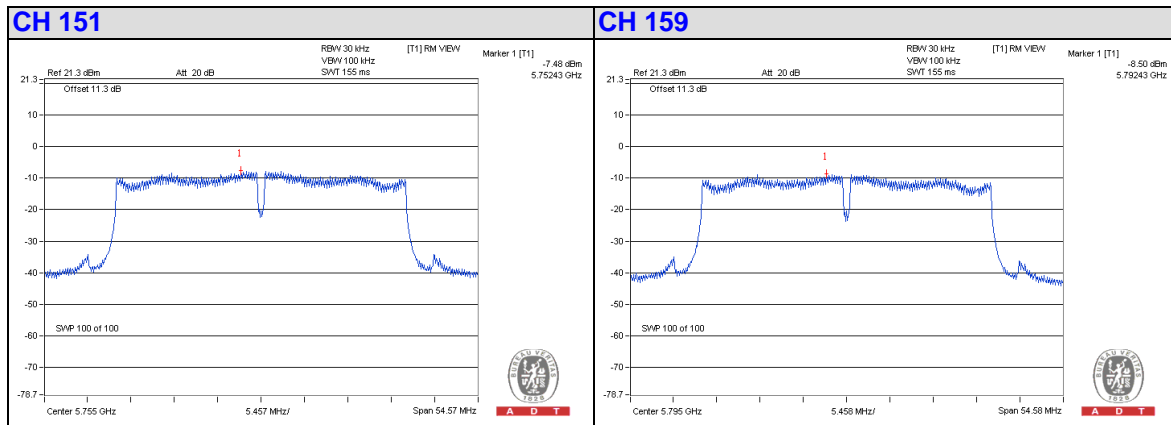
FINAL TEST DATE	May 23, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (40MHz, MCS8)
DUTY CYCLE	96.9%	DUTY FACTOR	0.14 dB

802.11n(40MHz, MCS8)<Ant. 1+ Ant. 3>

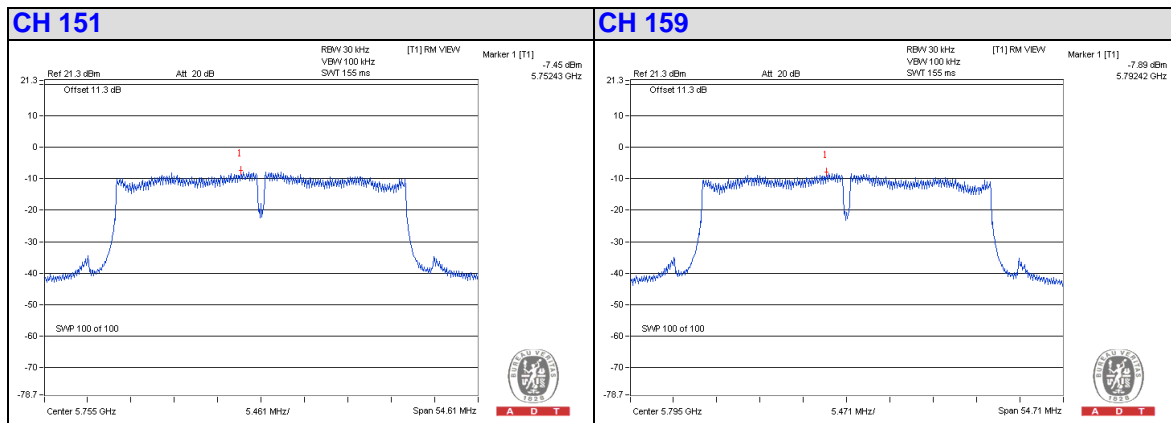
TX chain	Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	10 log (N=2) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
Ant. 1	151	5755	-7.48	-0.75	3.01	2.40	8	PASS
	159	5795	-8.50	-0.85	3.01	2.30	8	PASS
Ant. 3	151	5755	-7.45	-0.75	3.01	2.40	8	PASS
	159	5795	-7.89	-0.79	3.01	2.36	8	PASS

Note : Power Density + duty factor = Total Power Density

Ant. 1



Ant. 3





A D T

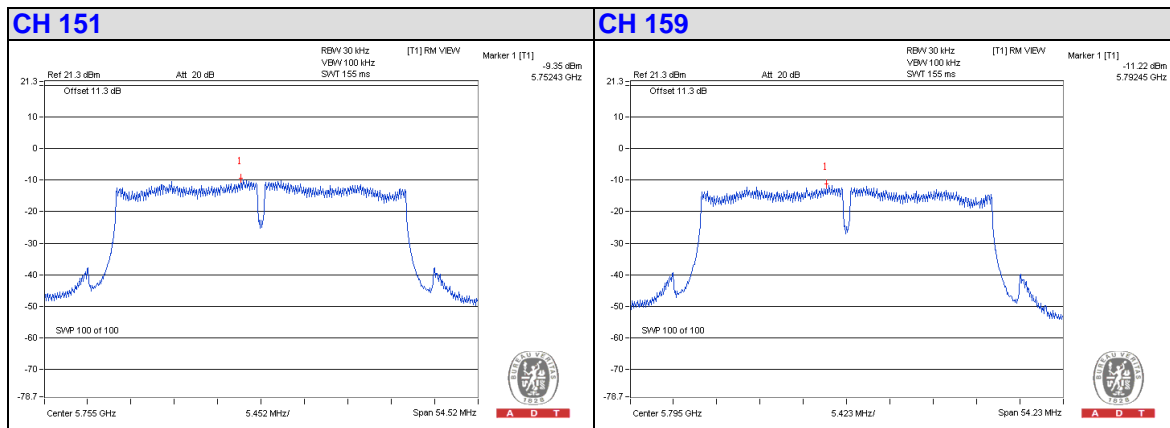
FINAL TEST DATE	May 24, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (40MHz, MCS16)
DUTY CYCLE	95.9%	DUTY FACTOR	0.18 dB

802.11n(40MHz, MCS16)< Ant. 1+ Ant. 2+ Ant. 3>

TX chain	Channel	FREQ. (MHz)	PSD (dBm/30kHz)	PSD (dBm/3kHz)	10 log (N=3) dB	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	PASS /FAIL
Ant. 1	151	5755	-9.35	-0.94	4.77	4.01	8	PASS
	159	5795	-11.22	-1.12	4.77	3.83	8	PASS
Ant. 2	151	5755	-9.22	-0.92	4.77	4.03	8	PASS
	159	5795	-10.96	-1.10	4.77	3.85	8	PASS
Ant. 3	151	5755	-8.05	-0.81	4.77	4.14	8	PASS
	159	5795	-10.38	-1.04	4.77	3.91	8	PASS

Note : Power Density + duty factor = Total Power Density

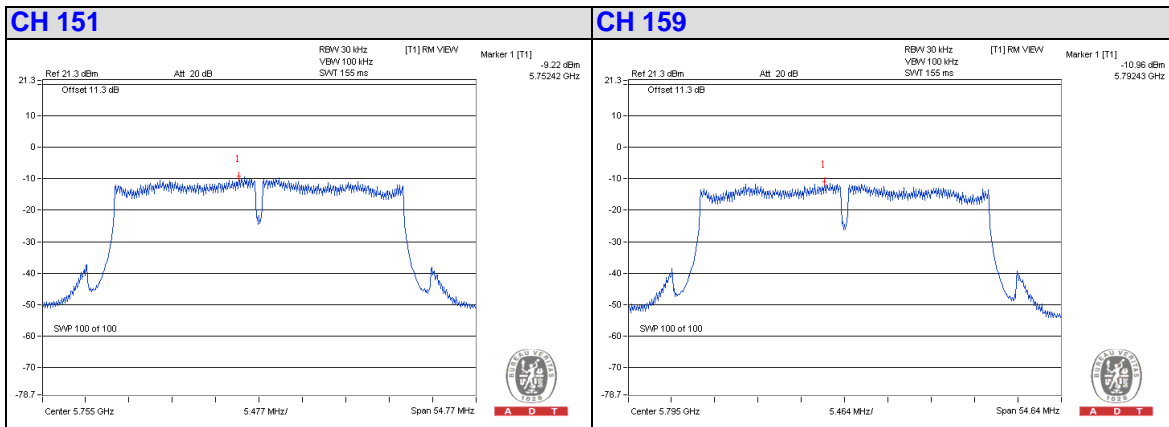
Ant. 1



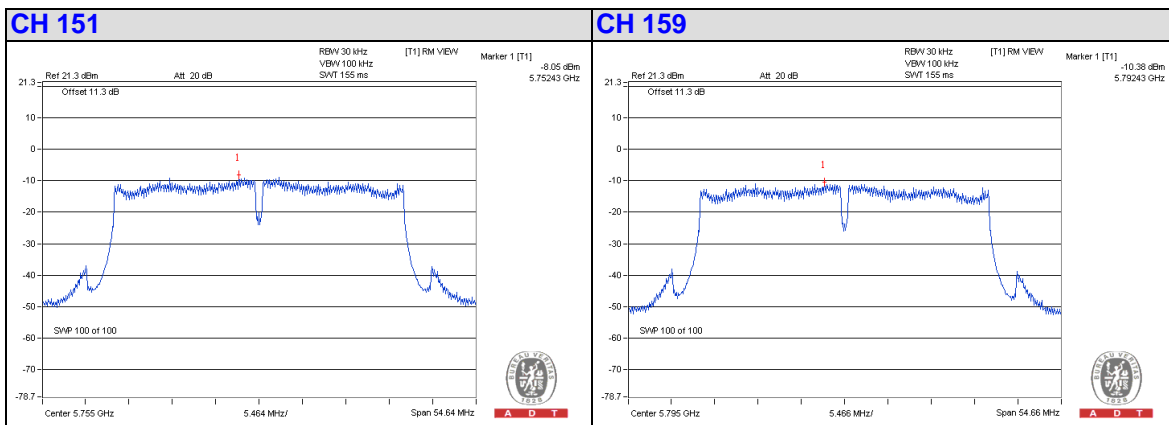


A D T

Ant. 2



Ant. 3



5.4 6dB SPECTRUM BANDWIDTH MEASUREMENT

5.4.1 LIMITS

For digital modulation systems, the minimum 6dB bandwidth shall be at least 500 kHz.

5.4.2 MEASURING INSTRUMENTS AND SETTING

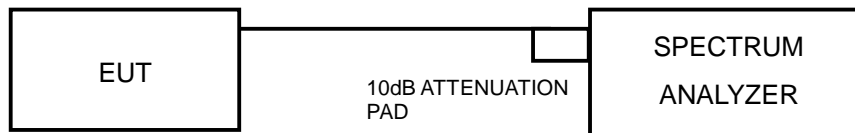
Please refer to section 6 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 6dB Bandwidth
RB	100kHz
VB	300kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto couple

5.4.3 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. Test was performed in accordance with KDB 558074 Guidance for Performing Compliance Measurements on Digital Transmission Systems(DTS) Operating under §15.247 section 5.1.1 EBW Measurement Procedure
3. Multiple antennas system was performed in accordance with KDB 662911 Emission Testing of Transmitters with Multiple Outputs in the Same Band
4. Measured the spectrum width with power higher than 6d account by this measurement.

5.4.4 TEST SETUP LAYOUT



5.4.5 TEST DEVIATION

There is no deviation with the original standard.

5.4.6 EUT OPERATING DURING TEST

The EUT was programmed to be in continuously transmitting mode.



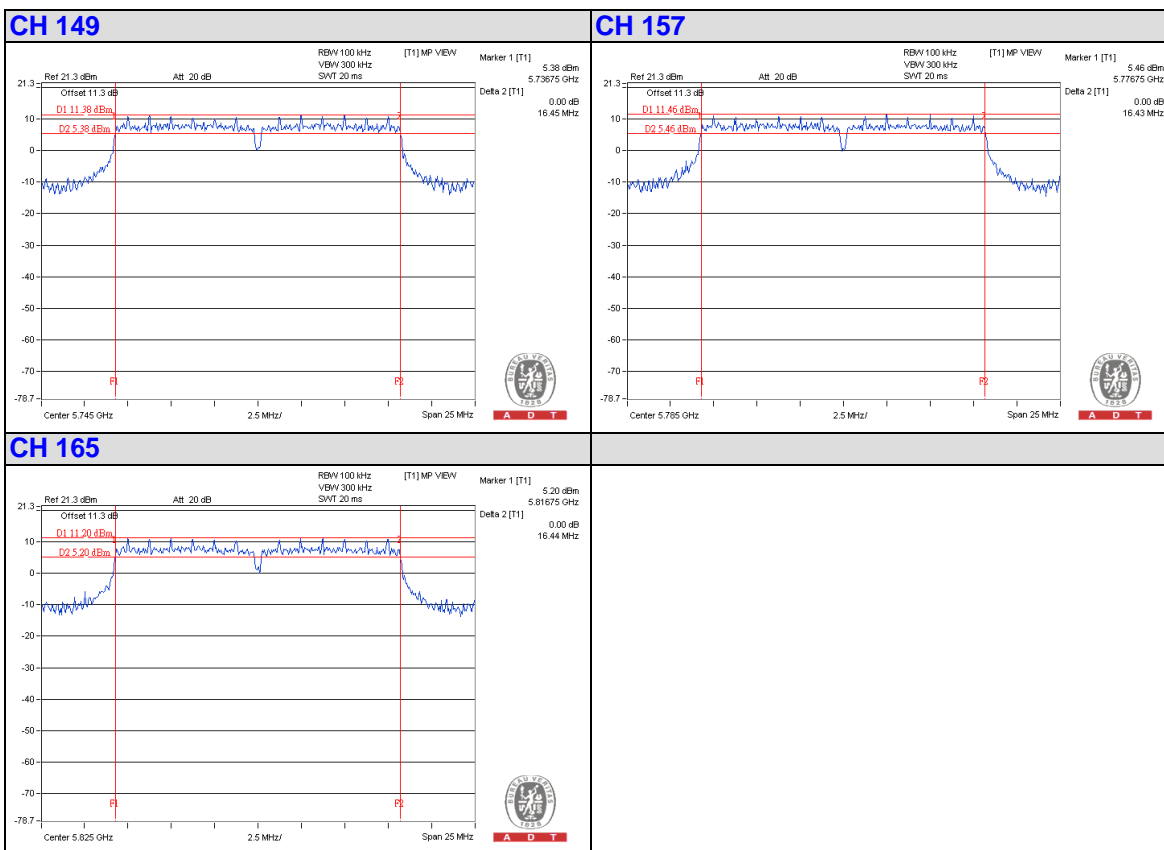
A D T

5.4.7 TEST RESULT OF 6dB SPECTRUM BANDWIDTH

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11a

802.11a< Ant. 3 >

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
149	5745	16.45	0.5	PASS
157	5785	16.43	0.5	PASS
165	5825	16.44	0.5	PASS



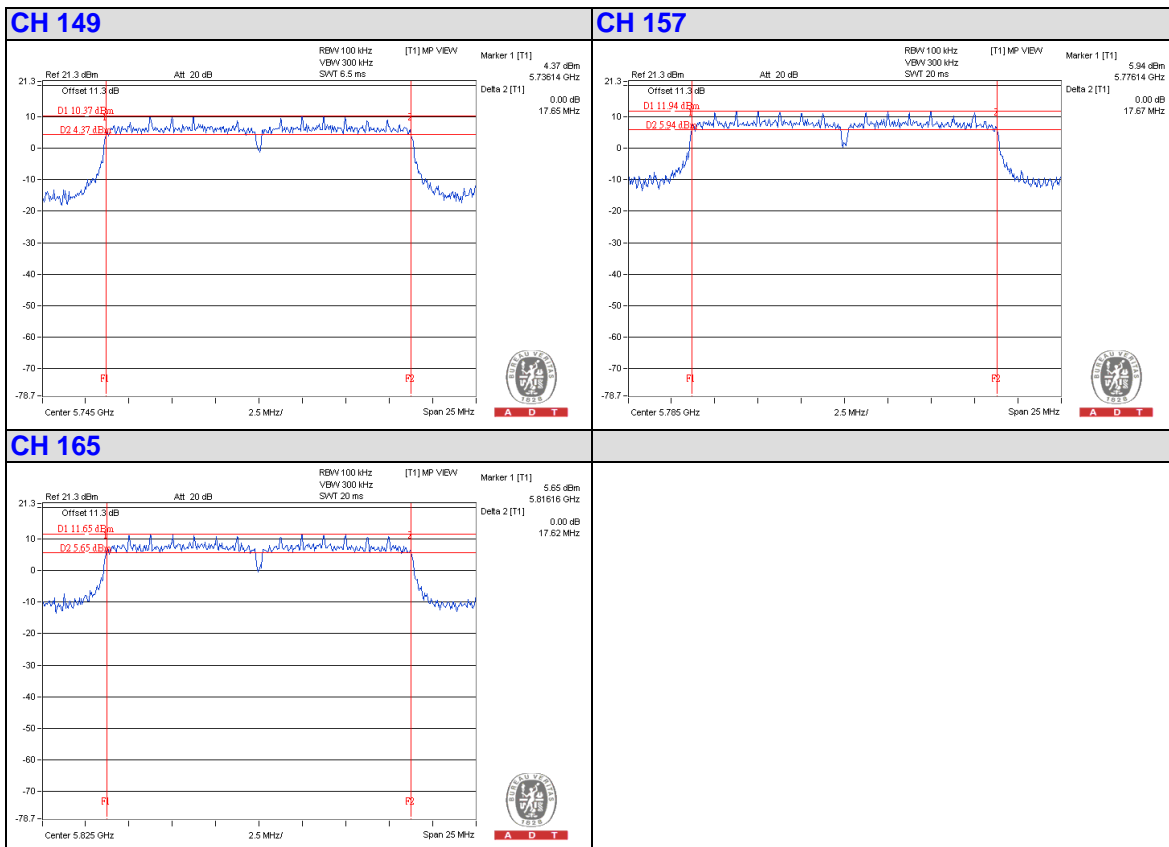


A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (20MHz, MCS0)

802.11n(20MHz, MCS0)< Ant. 3 >

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
149	5745	17.65	0.5	PASS
157	5785	17.67	0.5	PASS
165	5825	17.62	0.5	PASS





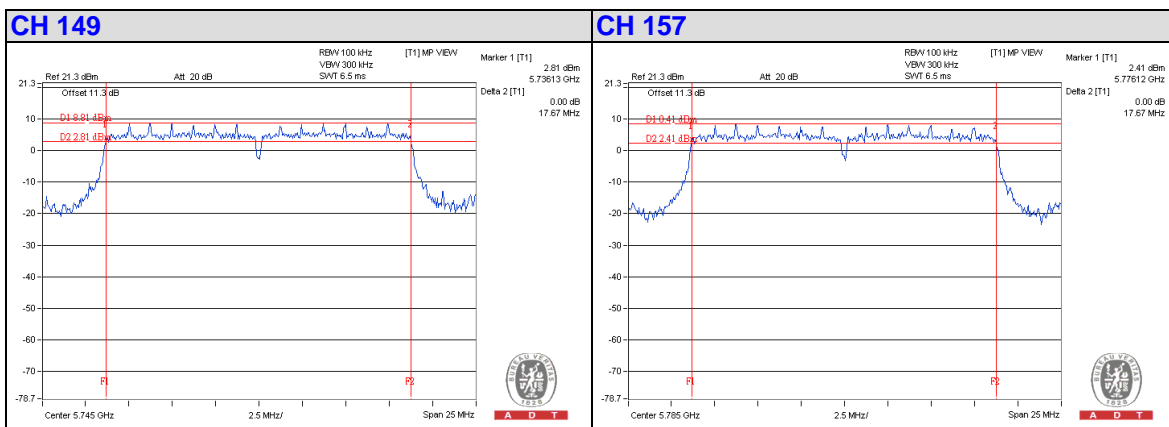
A D T

FINAL TEST DATE	May 24, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (20MHz, MCS8)

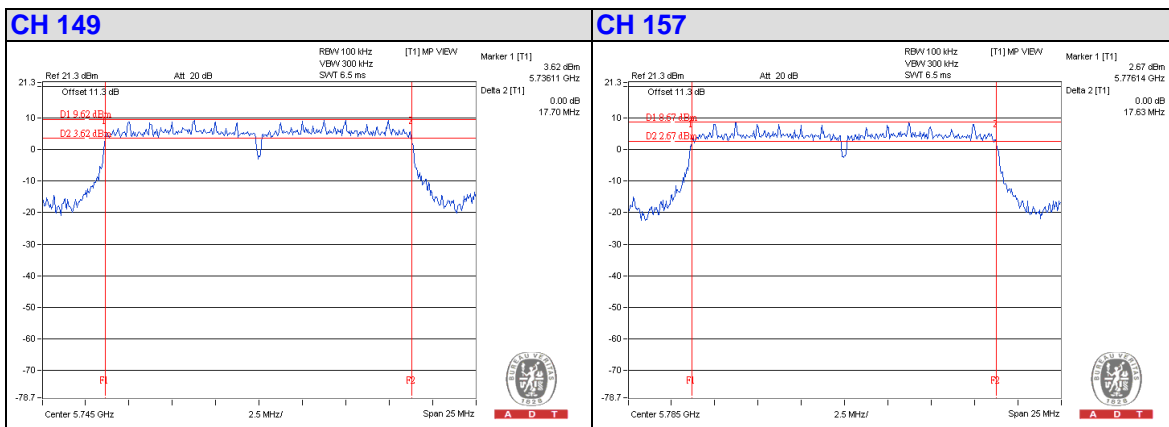
802.11n(20MHz, MCS8)<Ant. 1+ Ant. 3>

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		Ant. 1	Ant. 3		
149	5745	17.67	17.70	0.5	PASS
157	5785	17.67	17.63	0.5	PASS

Ant. 1



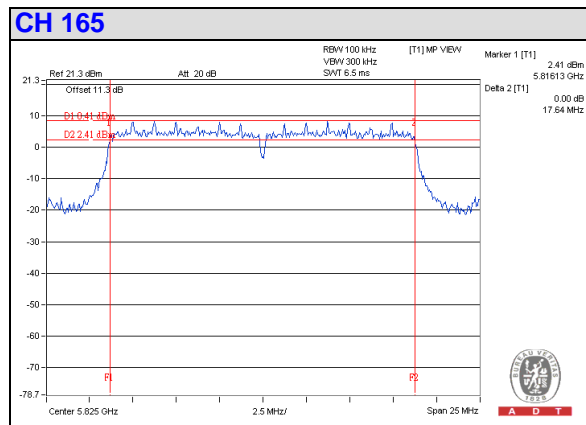
Ant. 3



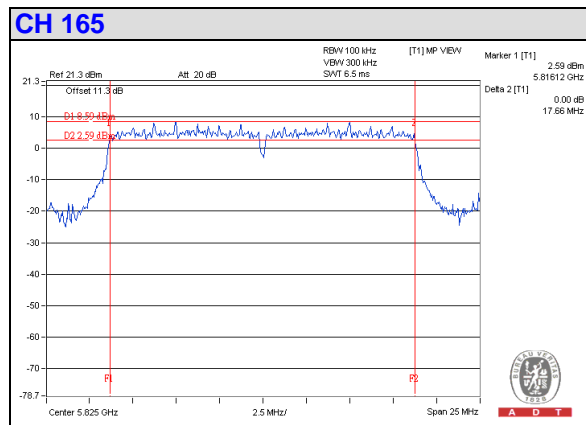
802.11n(20MHz, MCS8)<Ant. 1+ Ant. 2>

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		Ant. 1	Ant. 2		
165	5825	17.64	17.66	0.5	PASS

Ant. 1



Ant. 2





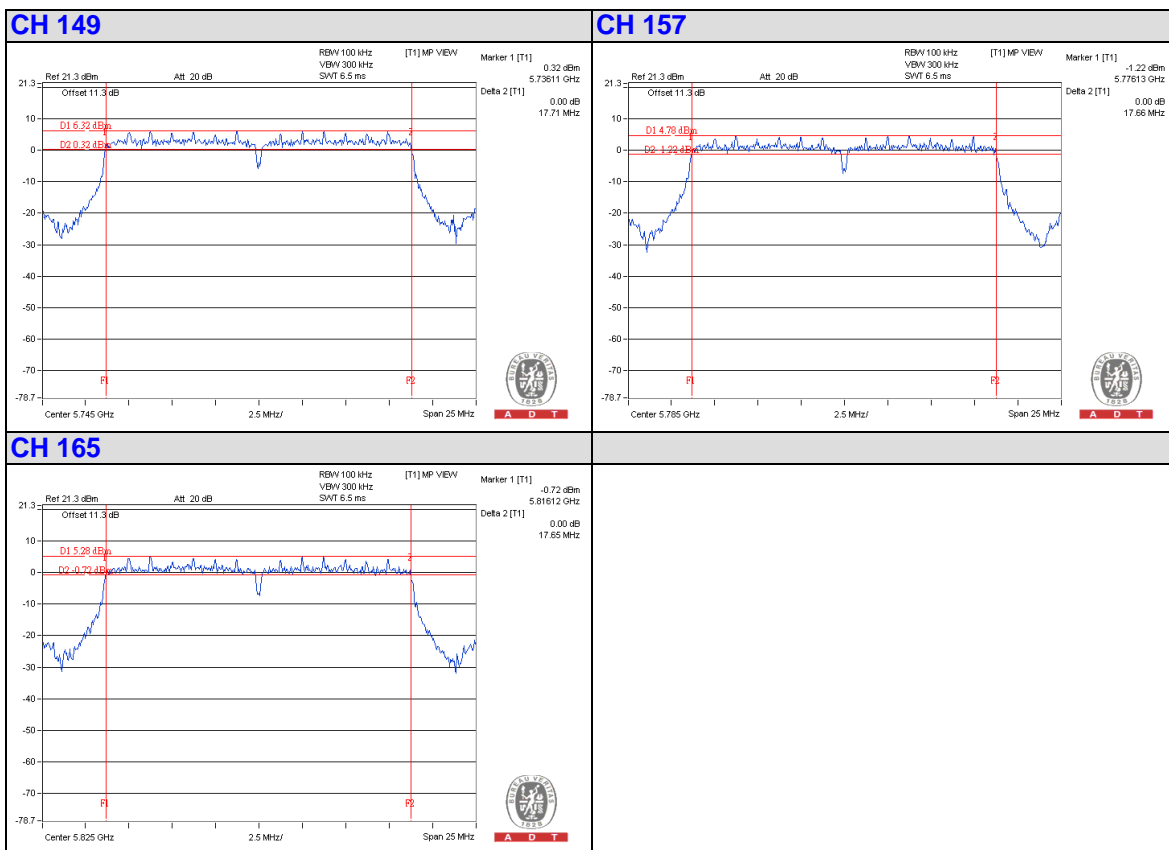
A D T

FINAL TEST DATE	May 24, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (20MHz, MCS16)

802.11n(20MHz, MCS16)< Ant. 1+ Ant. 2+ Ant. 3>

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		Ant. 1	Ant. 2	Ant. 3		
149	5745	17.71	17.69	17.68	0.5	PASS
157	5785	17.66	17.72	17.65	0.5	PASS
165	5825	17.65	17.72	17.66	0.5	PASS

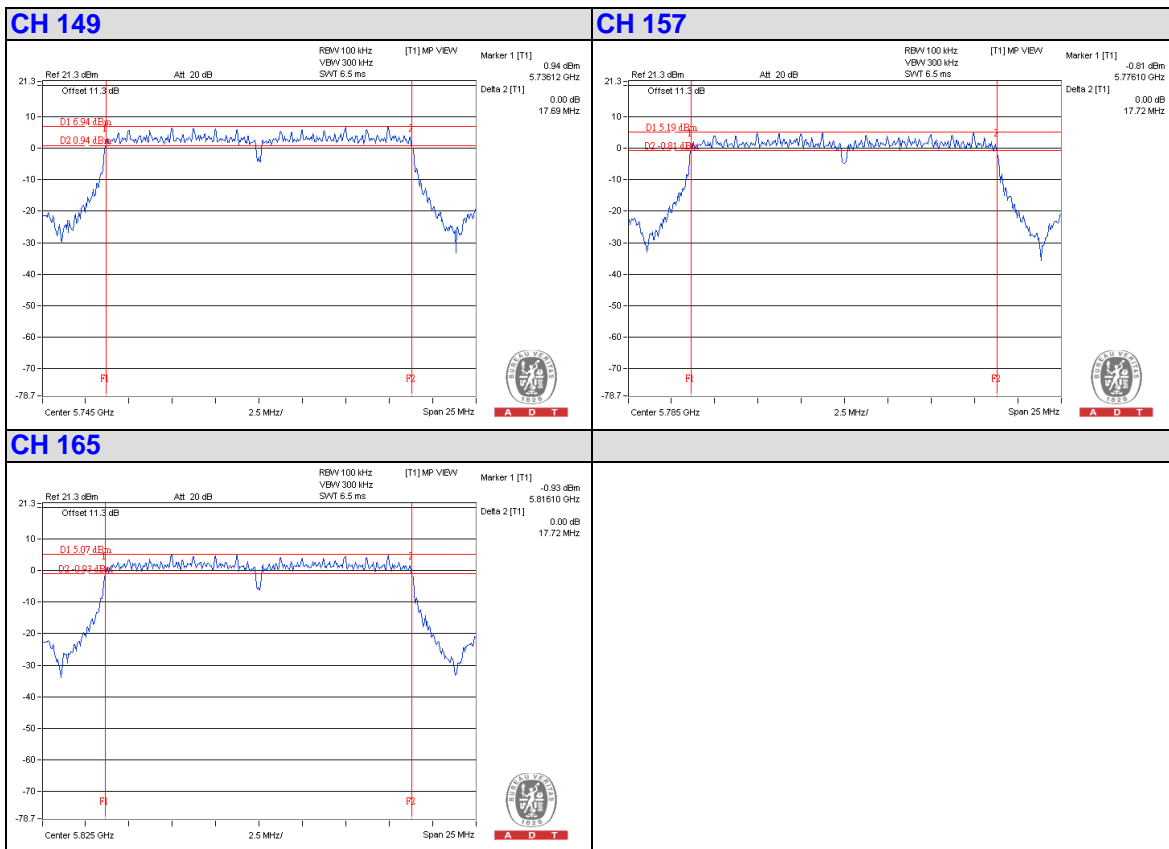
Ant. 1





A D T

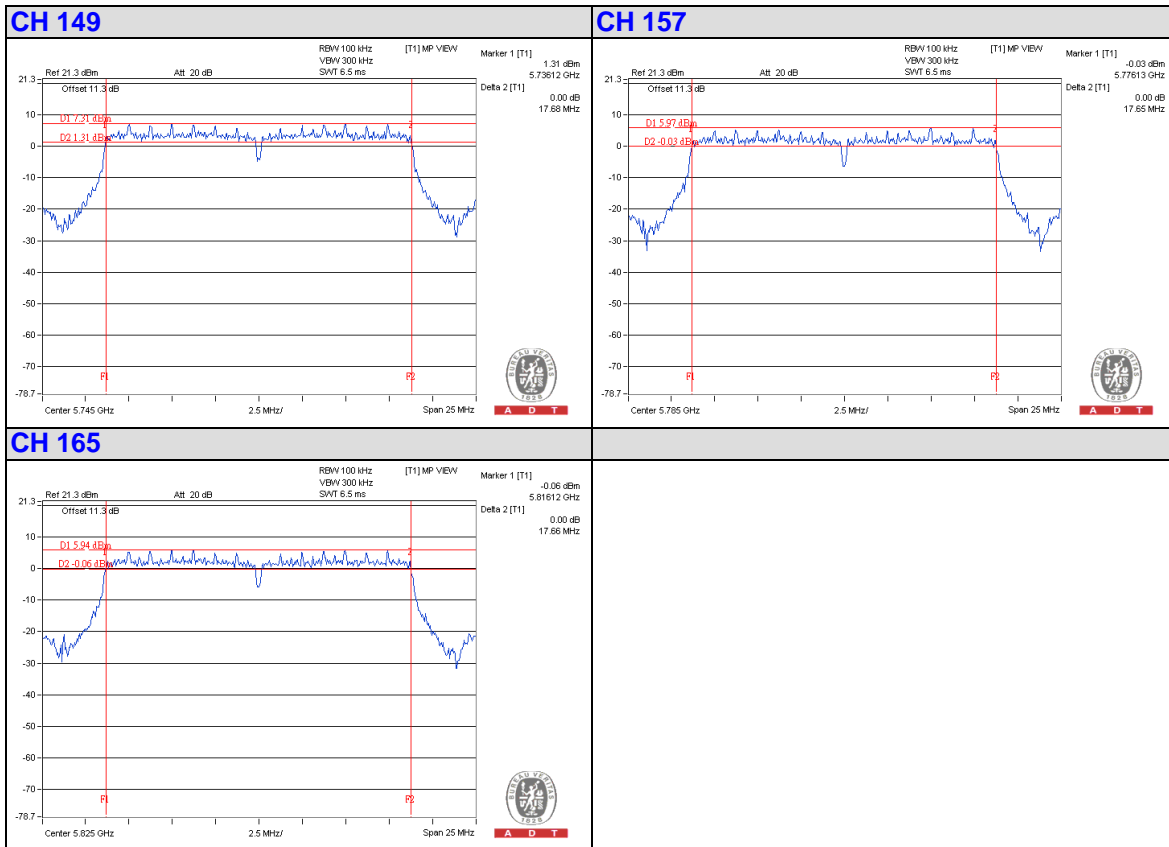
Ant. 2





A D T

Ant. 3



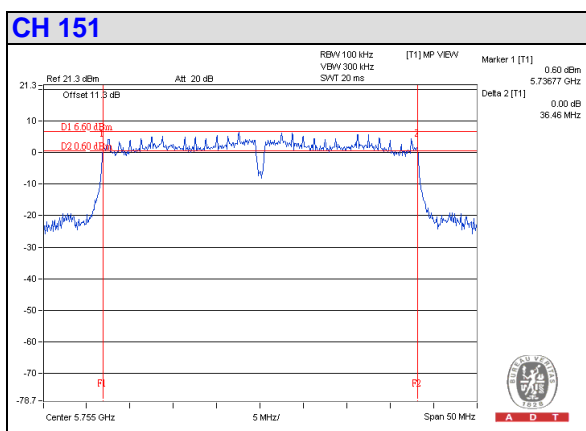


A D T

FINAL TEST DATE	May 24, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (40MHz, MCS0)

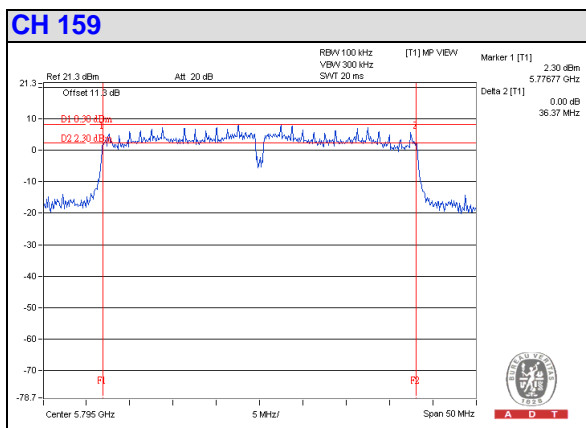
802.11n(40MHz, MCS0)< Ant. 2 >

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
151	5755	36.46	0.5	PASS



802.11n(40MHz, MCS0)< Ant. 1 >

CHANNEL	FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS / FAIL
159	5795	36.37	0.5	PASS





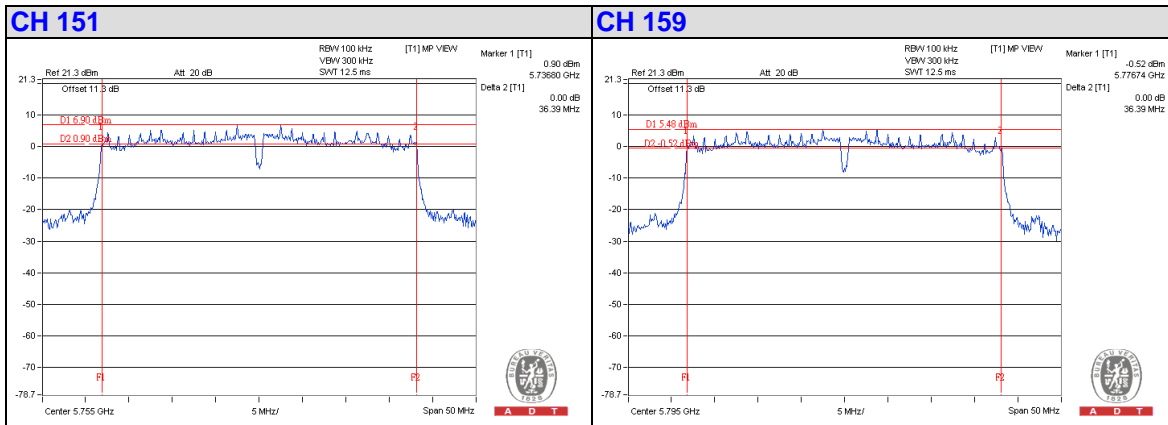
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (40MHz, MCS8)

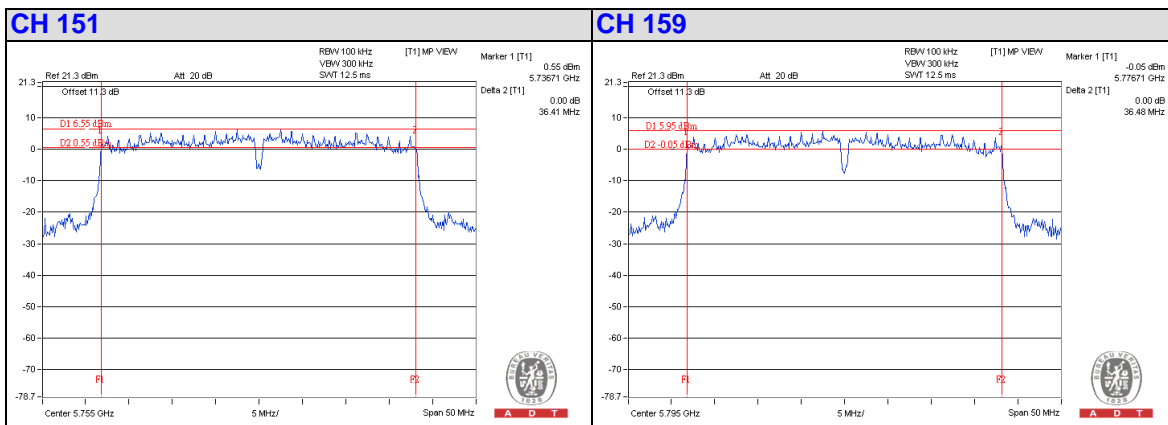
802.11n(40MHz, MCS8)<Ant. 1+ Ant. 3>

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)		MINIMUM LIMIT (MHz)	PASS / FAIL
		Ant. 1	Ant. 3		
151	5755	36.39	36.41	0.5	PASS
159	5795	36.39	36.48	0.5	PASS

Ant. 1



Ant. 3





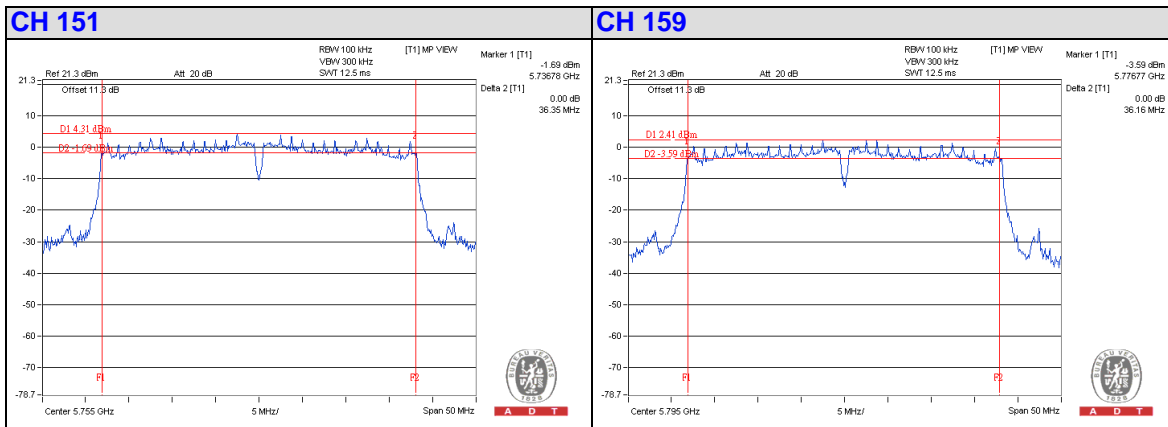
A D T

FINAL TEST DATE	May 24, 2013	TEST SITE NO.	OVEN B
TEMPERATURE	25 °C	HUMIDITY	60 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n (40MHz, MCS16)

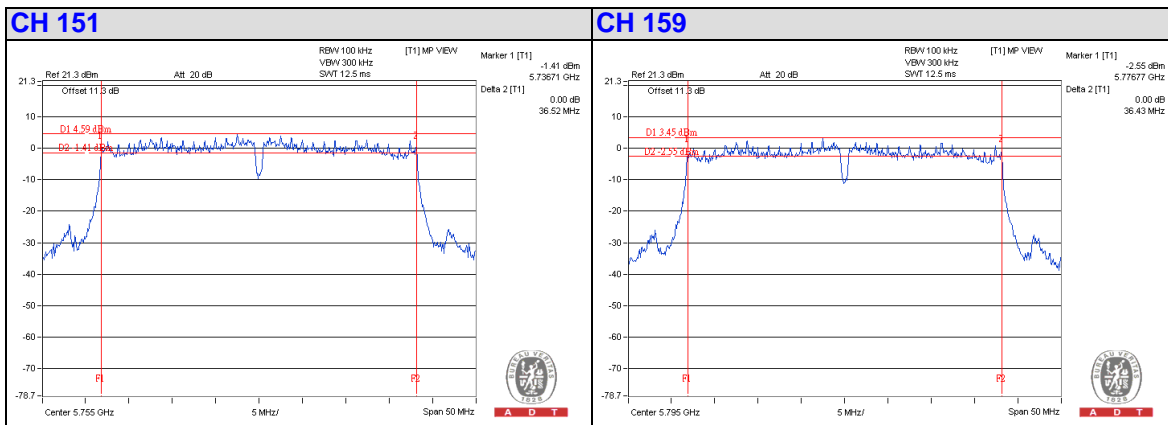
802.11n(40MHz, MCS16)< Ant. 1+ Ant. 2+ Ant. 3>

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)			MINIMUM LIMIT (MHz)	PASS / FAIL
		Ant. 1	Ant. 2	Ant. 3		
151	5755	36.35	36.52	36.43	0.5	PASS
159	5795	36.16	36.43	36.44	0.5	PASS

Ant. 1



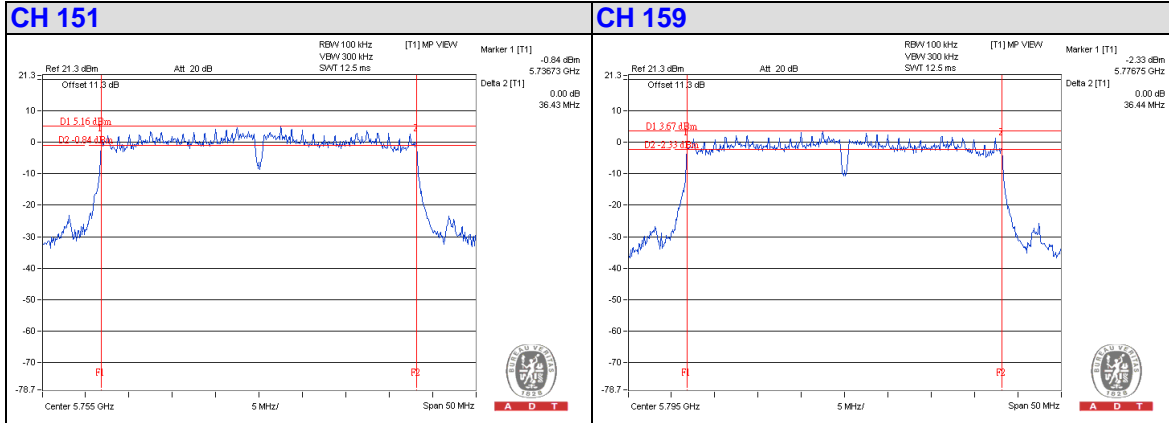
Ant. 2





A D T

Ant. 3



5.5 RADIATED EMISSIONS MEASUREMENT

5.5.1 LIMITS

30dBc 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..

Frequency Range (MHz)	Field Strength (microvolts/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

5.5.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 6 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Analyzer	Setting
Attenuation	Auto
Start Frequency	1GHz
Stop Frequency	10th carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100kHz / 300kHz 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~1GHz / RB 120kHz for QP

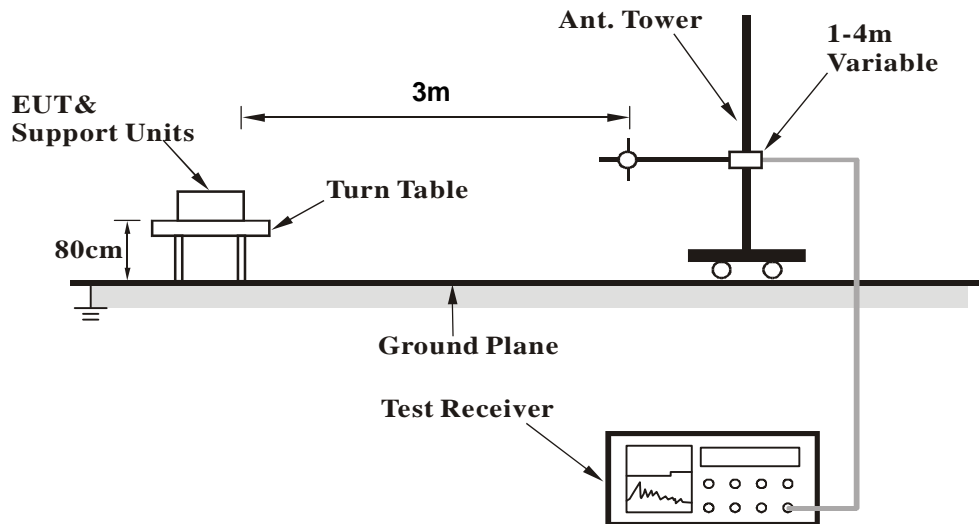


A D T

5.5.3 TEST PROCEDURES

1. Configure the EUT according to ANSI C63.10. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 m to 4 m) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and 3MHz RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
7. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
8. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak 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.
9. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.

5.5.4 TEST SETUP LAYOUT



5.5.5 TEST DEVIATION

There is no deviation with the original standard.

5.5.6 EUT OPERATING DURING TEST

The EUT was programmed to be in continuously transmitting mode.



A D T

5.5.7 TEST RESULT OF RADIATED EMISSIONS (9kHz~30MHz)

FREQUENCY RANGE	9kHz~30MHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	68 %
TEST ENGINEER	Andy Ho	CONFIGURATIONS	CTX
FINAL TEST DATE	May 24, 2013		

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log(\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

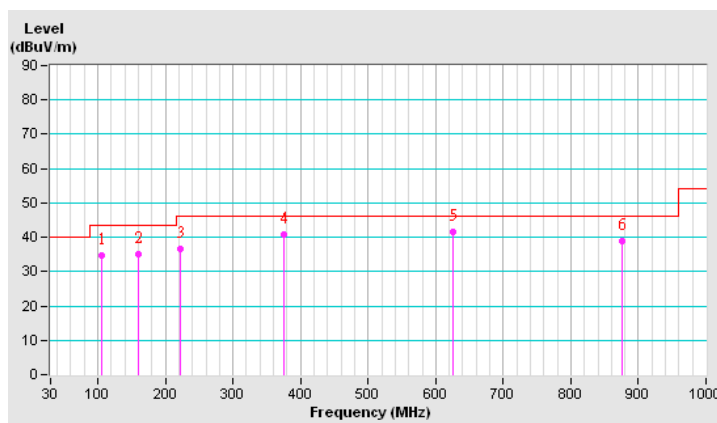
5.5.8 TEST RESULT OF RADIATED EMISSIONS (30MHz~1GHz)

FREQUENCY RANGE	30MHz~1GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	67 %
TEST ENGINEER	Andy Ho	CONFIGURATION	802.11n(20MHz, MCS16) CH 149 / Ant.1 + Ant.2 + Ant.3
FINAL TEST DATE	May 24, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	106.24	34.7 QP	43.5	-8.8	1.50 H	284	51.48	-16.75
2	160.37	35.1 QP	43.5	-8.4	2.00 H	246	48.42	-13.35
3	222.50	36.6 QP	46.0	-9.4	1.00 H	270	52.44	-15.86
4	374.98	40.9 QP	46.0	-5.1	1.00 H	53	51.32	-10.39
5	625.00	41.7 QP	46.0	-4.3	1.50 H	124	46.53	-4.83
6	875.02	38.8 QP	46.0	-7.2	1.00 H	141	39.67	-0.88

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value





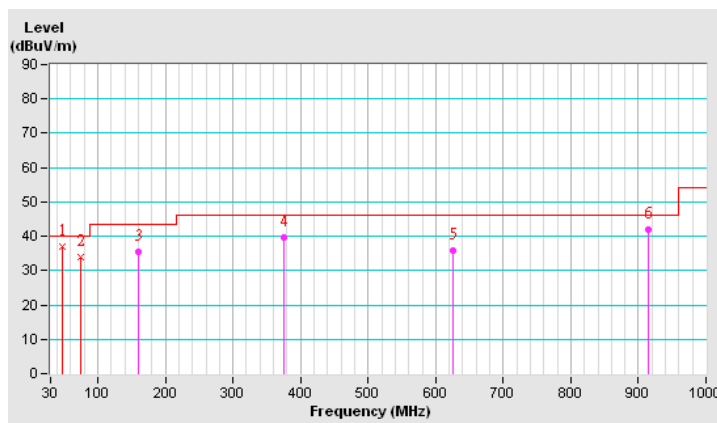
A D T

FREQUENCY RANGE	30MHz~1GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	67 %
TEST ENGINEER	Andy Ho	CONFIGURATION	802.11n(20MHz, MCS16) CH 149 / Ant.1 + Ant.2 + Ant.3
FINAL TEST DATE	May 24, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	47.92	37.0 QP	40.0	-3.1	1.00 V	276	50.52	-13.57
2	74.65	34.1 QP	40.0	-5.9	1.05 V	0	50.97	-16.90
3	159.74	35.4 QP	43.5	-8.1	1.50 V	360	48.80	-13.39
4	374.98	39.7 QP	46.0	-6.3	1.50 V	360	50.07	-10.39
5	625.00	35.7 QP	46.0	-10.3	1.00 V	101	40.52	-4.83
6	914.74	41.8 QP	46.0	-4.2	1.00 V	9	41.68	0.13

REMARKS:

1. Emission level(dBuV/m)=Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value



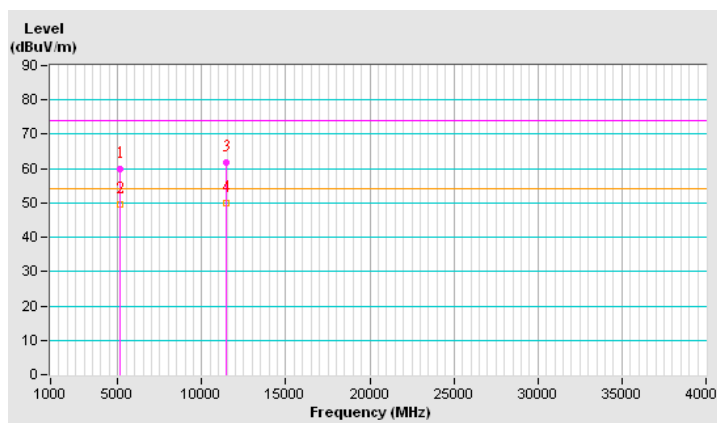
5.5.9 TEST RESULT OF RADIATED EMISSIONS (1GHz~40GHz)

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11a CH 149 / Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.7 PK	74.0	-14.3	1.00 H	328	53.32	6.38
2	5150.00	49.6 AV	54.0	-4.4	1.00 H	328	43.22	6.38
3	11490.00	61.6 PK	74.0	-12.4	1.00 H	166	47.38	14.22
4	11490.00	49.8 AV	54.0	-4.2	1.00 H	166	35.58	14.22

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





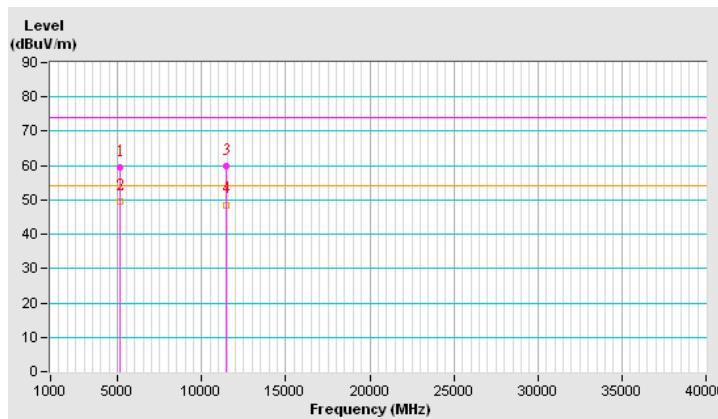
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11a CH 149 / Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.4 PK	74.0	-14.6	1.00 V	204	53.02	6.38
2	5150.00	49.5 AV	54.0	-4.5	1.00 V	204	43.12	6.38
3	11490.00	59.8 PK	74.0	-14.2	1.00 V	244	45.58	14.22
4	11490.00	48.6 AV	54.0	-5.4	1.00 V	244	34.38	14.22

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





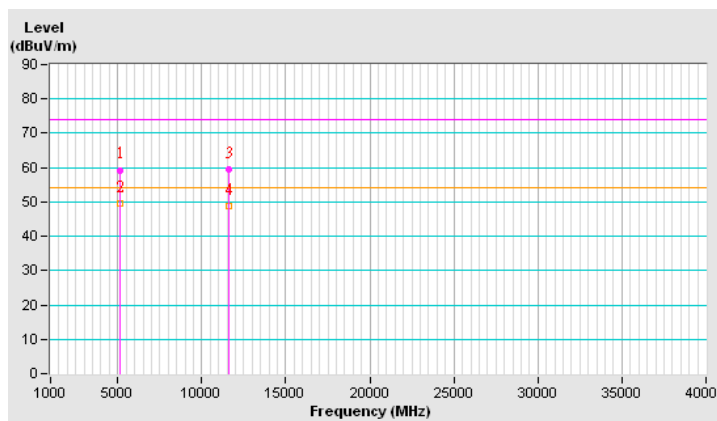
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11a CH 157 / Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.3 PK	74.0	-14.7	1.04 H	315	52.92	6.38
2	5150.00	49.4 AV	54.0	-4.6	1.04 H	315	43.02	6.38
3	11570.00	59.4 PK	74.0	-14.6	1.00 H	166	45.28	14.12
4	11570.00	48.9 AV	54.0	-5.1	1.00 H	166	34.78	14.12

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





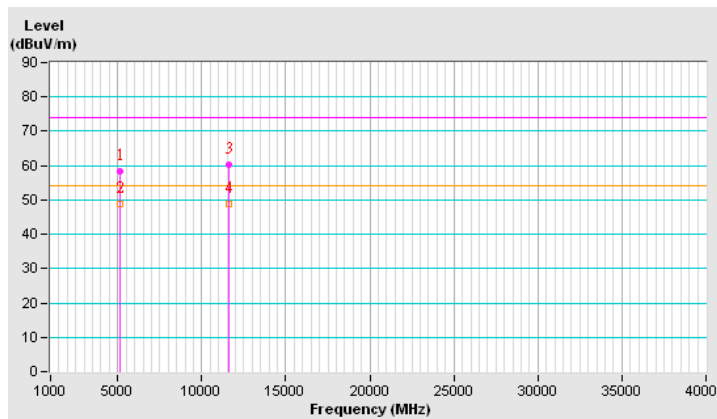
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11a CH 157 / Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.2 PK	74.0	-15.8	1.04 V	197	51.82	6.38
2	5150.00	48.8 AV	54.0	-5.2	1.04 V	197	42.42	6.38
3	11570.00	60.2 PK	74.0	-13.8	1.01 V	251	46.08	14.12
4	11570.00	48.9 AV	54.0	-5.1	1.01 V	251	34.78	14.12

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





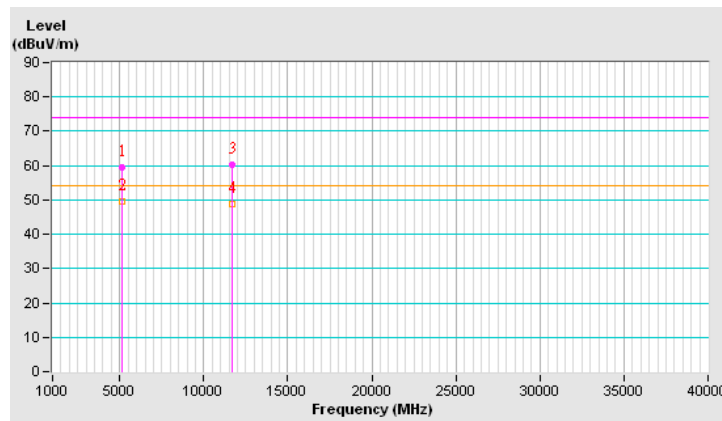
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11a CH 165 / Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.4 PK	74.0	-14.6	1.00 H	329	53.02	6.38
2	5150.00	49.4 AV	54.0	-4.6	1.00 H	329	43.02	6.38
3	11650.00	60.1 PK	74.0	-13.9	1.00 H	166	46.00	14.10
4	11650.00	48.7 AV	54.0	-5.3	1.00 H	166	34.60	14.10

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





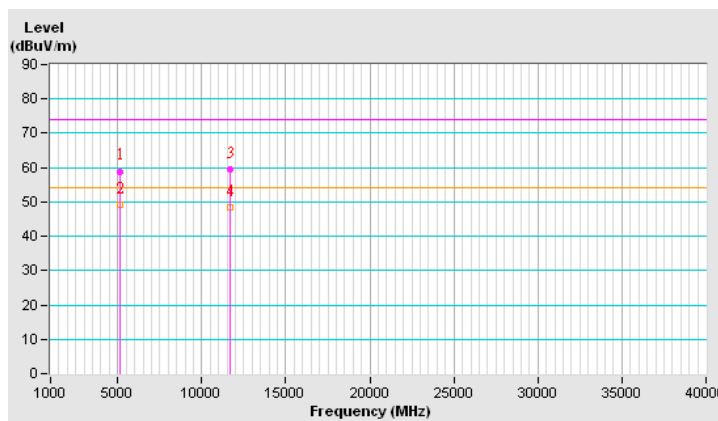
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	11a CH 165 / Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.9 PK	74.0	-15.1	1.00 V	205	52.52	6.38
2	5150.00	49.1 AV	54.0	-4.9	1.00 V	205	42.72	6.38
3	11650.00	59.6 PK	74.0	-14.4	1.04 V	236	45.50	14.10
4	11650.00	48.5 AV	54.0	-5.5	1.04 V	236	34.40	14.10

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





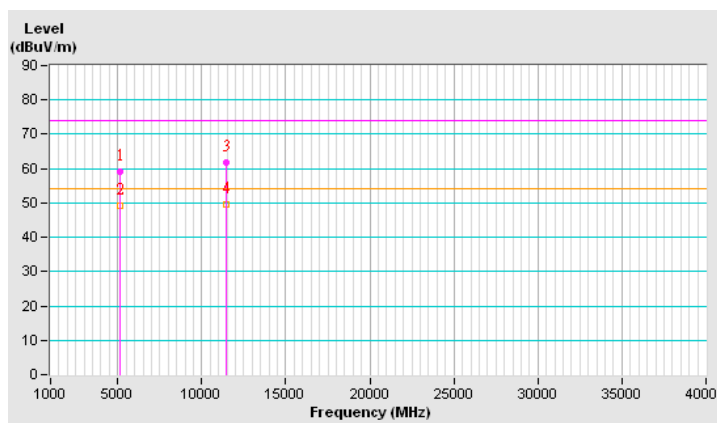
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 149 / Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.0 PK	74.0	-15.0	1.03 H	340	52.62	6.38
2	5150.00	49.2 AV	54.0	-4.8	1.03 H	340	42.82	6.38
3	11490.00	61.7 PK	74.0	-12.3	1.04 H	181	47.48	14.22
4	11490.00	49.7 AV	54.0	-4.3	1.04 H	181	35.48	14.22

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





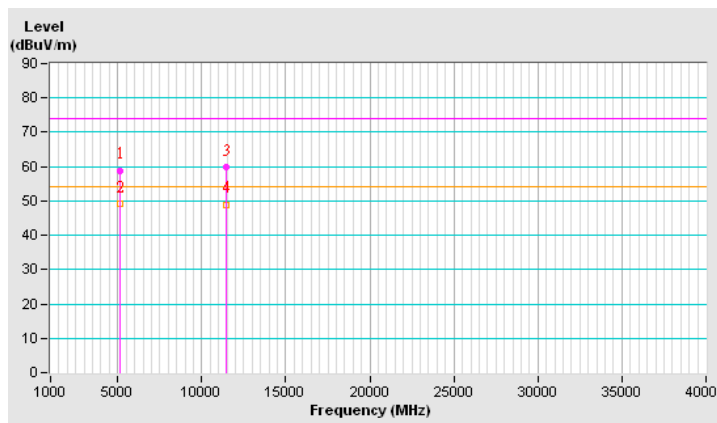
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 149 / Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.9 PK	74.0	-15.1	1.00 V	216	52.52	6.38
2	5150.00	49.2 AV	54.0	-4.8	1.00 V	216	42.82	6.38
3	11490.00	60.0 PK	74.0	-14.0	1.02 V	249	45.78	14.22
4	11490.00	49.0 AV	54.0	-5.0	1.02 V	249	34.78	14.22

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





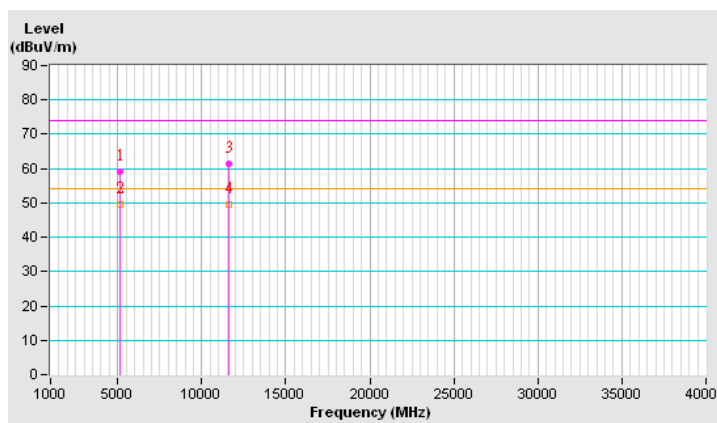
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 157 / Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.2 PK	74.0	-14.8	1.04 H	331	52.82	6.38
2	5150.00	49.4 AV	54.0	-4.6	1.04 H	331	43.02	6.38
3	11570.00	61.3 PK	74.0	-12.7	1.03 H	169	47.18	14.12
4	11570.00	49.6 AV	54.0	-4.4	1.03 H	169	35.48	14.12

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





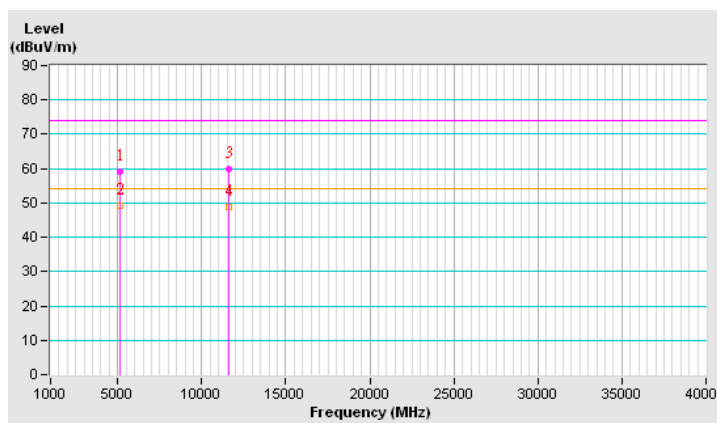
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 157 / Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.2 PK	74.0	-14.8	1.00 V	202	52.82	6.38
2	5150.00	49.3 AV	54.0	-4.7	1.00 V	202	42.92	6.38
3	11570.00	59.9 PK	74.0	-14.1	1.02 V	241	45.78	14.12
4	11570.00	48.8 AV	54.0	-5.2	1.02 V	241	34.68	14.12

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





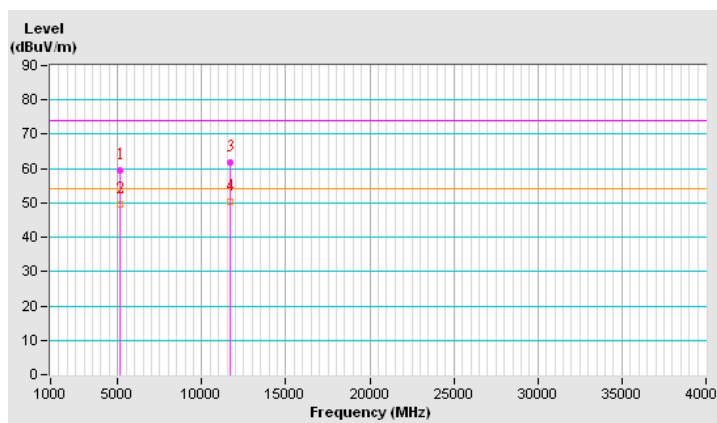
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 165 / Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.6 PK	74.0	-14.4	1.00 H	347	53.22	6.38
2	5150.00	49.5 AV	54.0	-4.5	1.00 H	347	43.12	6.38
3	11650.00	61.9 PK	74.0	-12.1	1.00 H	171	47.80	14.10
4	11650.00	50.2 AV	54.0	-3.8	1.00 H	171	36.10	14.10

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





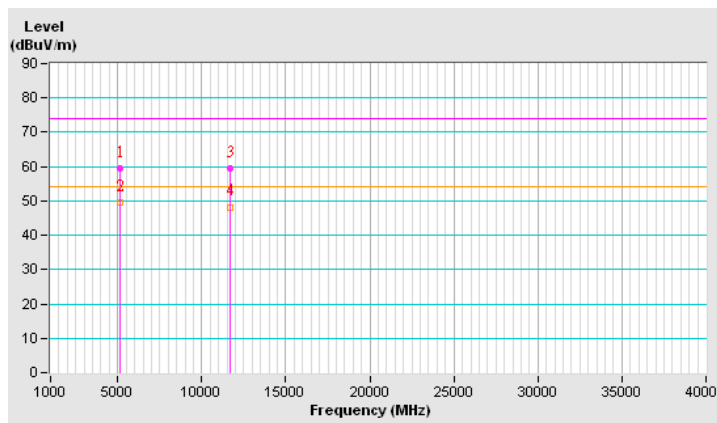
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 165 / Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	1.02 V	212	53.12	6.38
2	5150.00	49.4 AV	54.0	-4.6	1.02 V	212	43.02	6.38
3	11650.00	59.4 PK	74.0	-14.6	1.00 V	244	45.30	14.10
4	11650.00	48.2 AV	54.0	-5.8	1.00 V	244	34.10	14.10

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





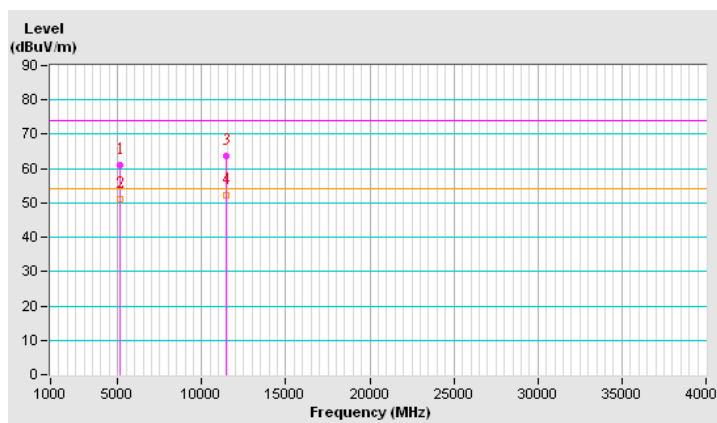
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 149 / Ant.1 + Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.1 PK	74.0	-12.9	1.05 H	26	54.72	6.38
2	5150.00	51.2 AV	54.0	-2.8	1.05 H	26	44.82	6.38
3	11490.00	63.6 PK	74.0	-10.4	1.00 H	116	49.38	14.22
4	11490.00	52.3 AV	54.0	-1.7	1.00 H	116	38.08	14.22

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





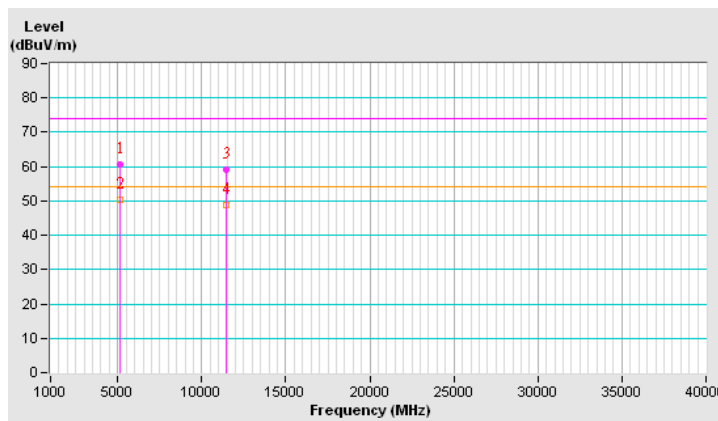
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 149 / Ant.1 + Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.7 PK	74.0	-13.3	1.26 V	175	54.32	6.38
2	5150.00	50.4 AV	54.0	-3.6	1.26 V	175	44.02	6.38
3	11490.00	59.1 PK	74.0	-14.9	1.00 V	250	44.88	14.22
4	11490.00	48.7 AV	54.0	-5.3	1.00 V	250	34.48	14.22

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





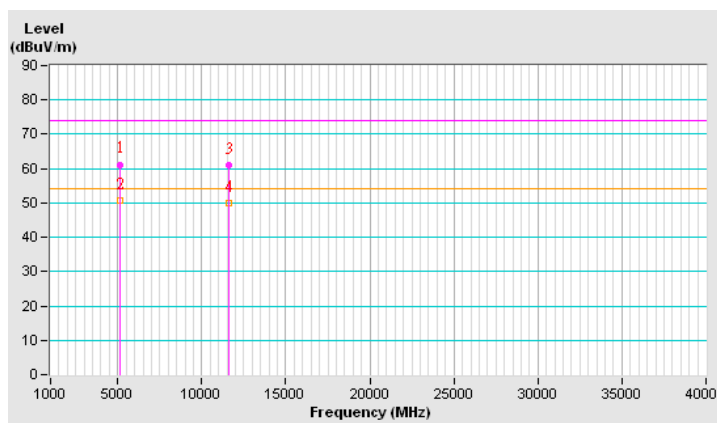
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 157 / Ant.1 + Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.2 PK	74.0	-12.8	1.05 H	52	54.82	6.38
2	5150.00	50.6 AV	54.0	-3.4	1.05 H	52	44.22	6.38
3	11570.00	61.0 PK	74.0	-13.0	1.00 H	115	46.88	14.12
4	11570.00	50.1 AV	54.0	-3.9	1.00 H	115	35.98	14.12

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





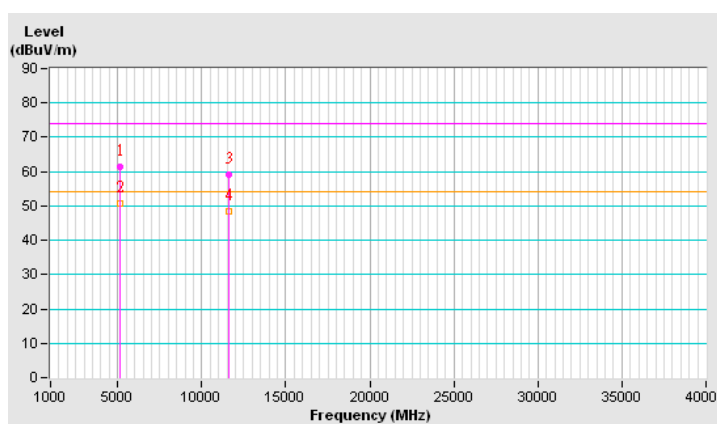
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 157 / Ant.1 + Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.3 PK	74.0	-12.7	1.24 V	180	54.92	6.38
2	5150.00	50.7 AV	54.0	-3.3	1.24 V	180	44.32	6.38
3	11570.00	59.0 PK	74.0	-15.0	1.00 V	250	44.88	14.12
4	11570.00	48.5 AV	54.0	-5.5	1.00 V	250	34.38	14.12

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





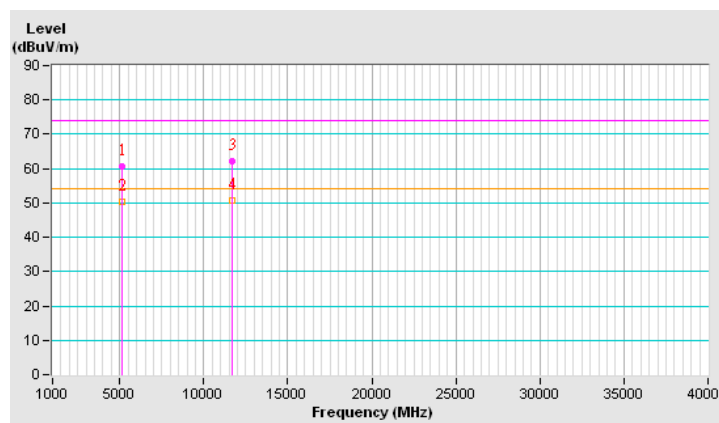
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 165 / Ant.1 + Ant.2
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.7 PK	74.0	-13.3	1.07 H	31	52.98	7.72
2	5150.00	50.3 AV	54.0	-3.7	1.07 H	31	42.58	7.72
3	11650.00	62.0 PK	74.0	-12.0	1.25 H	41	50.08	11.92
4	11650.00	50.7 AV	54.0	-3.3	1.25 H	41	38.78	11.92

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





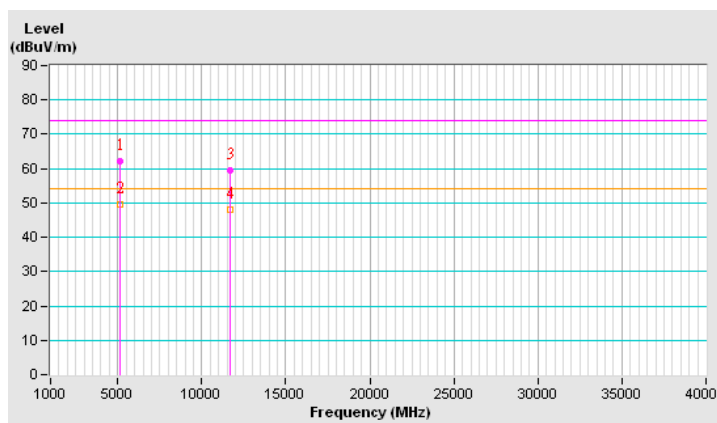
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 165 / Ant.1 + Ant.2
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.1 PK	74.0	-11.9	1.11 V	165	54.38	7.72
2	5150.00	49.5 AV	54.0	-4.5	1.11 V	165	41.78	7.72
3	11650.00	59.5 PK	74.0	-14.5	1.25 V	41	47.58	11.92
4	11650.00	48.1 AV	54.0	-5.9	1.25 V	41	36.18	11.92

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





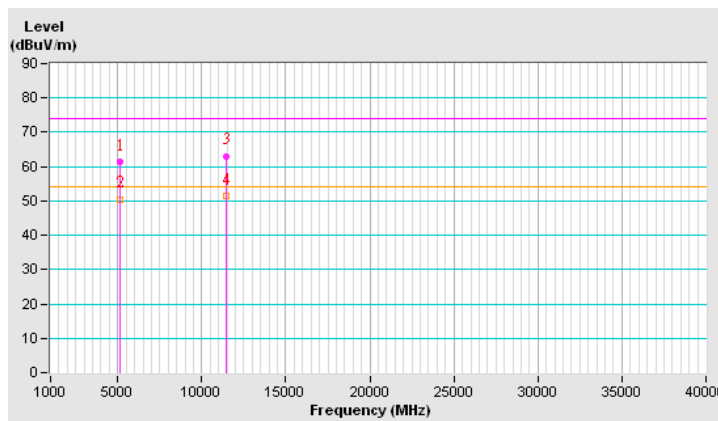
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 149 / Ant.1 + Ant.2 + Ant.3
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.4 PK	74.0	-12.6	1.00 H	21	53.68	7.72
2	5150.00	50.5 AV	54.0	-3.5	1.00 H	21	42.78	7.72
3	11490.00	63.1 PK	74.0	-10.9	1.27 H	53	51.37	11.73
4	11490.00	51.6 AV	54.0	-2.4	1.27 H	53	39.87	11.73

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





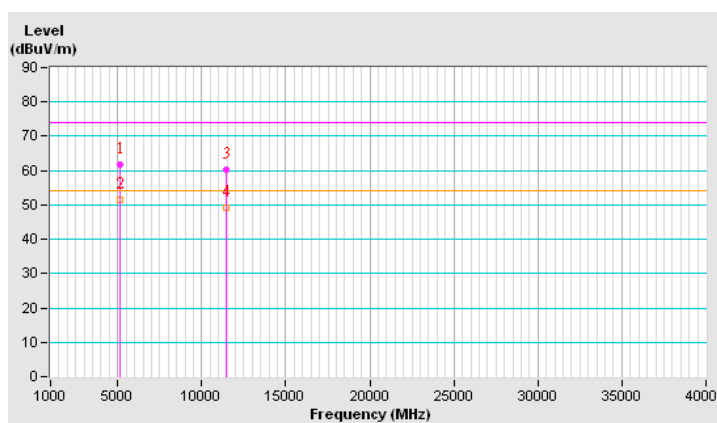
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 149 / Ant.1 + Ant.2 + Ant.3
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.8 PK	74.0	-12.2	1.43 V	93	54.08	7.72
2	5150.00	51.3 AV	54.0	-2.7	1.43 V	93	43.58	7.72
3	11490.00	60.1 PK	74.0	-13.9	1.07 V	51	48.37	11.73
4	11490.00	49.2 AV	54.0	-4.8	1.07 V	51	37.47	11.73

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





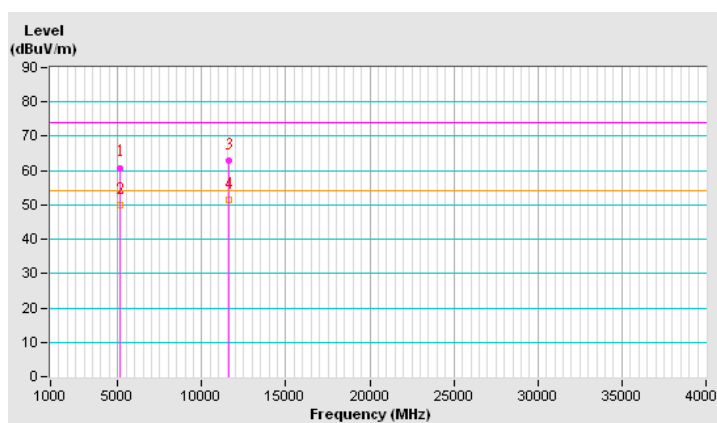
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 157 / Ant.1 + Ant.2 + Ant.3
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.8 PK	74.0	-13.2	1.00 H	20	53.08	7.72
2	5150.00	50.1 AV	54.0	-3.9	1.00 H	20	42.38	7.72
3	11570.00	63.0 PK	74.0	-11.0	1.26 H	97	51.23	11.77
4	11570.00	51.3 AV	54.0	-2.7	1.26 H	97	39.53	11.77

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





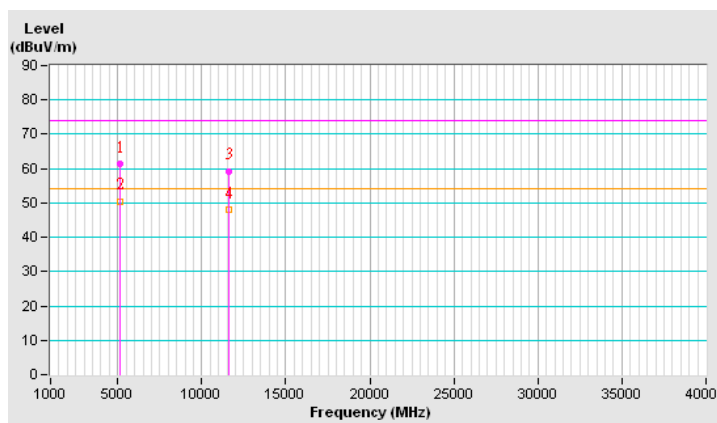
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 157 / Ant.1 + Ant.2 + Ant.3
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.3 PK	74.0	-12.7	1.41 V	102	53.58	7.72
2	5150.00	50.5 AV	54.0	-3.5	1.41 V	102	42.78	7.72
3	11570.00	59.3 PK	74.0	-14.7	1.06 V	42	47.53	11.77
4	11570.00	48.1 AV	54.0	-5.9	1.06 V	42	36.33	11.77

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





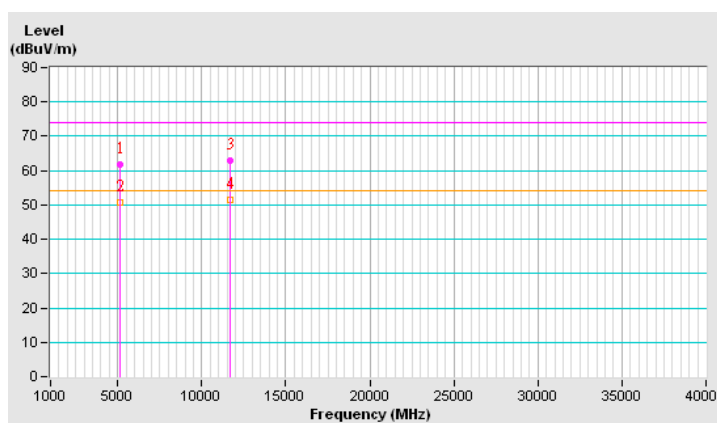
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 165 / Ant.1 + Ant.2 + Ant.3
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.8 PK	74.0	-12.2	1.00 H	25	54.08	7.72
2	5150.00	50.7 AV	54.0	-3.3	1.00 H	25	42.98	7.72
3	11650.00	62.8 PK	74.0	-11.2	1.26 H	45	50.88	11.92
4	11650.00	51.6 AV	54.0	-2.4	1.26 H	45	39.68	11.92

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





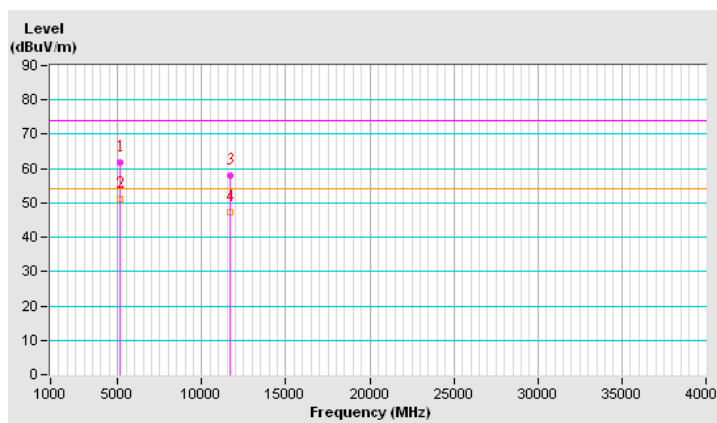
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 165 / Ant.1 + Ant.2 + Ant.3
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.6 PK	74.0	-12.4	1.42 V	105	53.88	7.72
2	5150.00	51.2 AV	54.0	-2.8	1.42 V	105	43.48	7.72
3	11650.00	58.1 PK	74.0	-15.9	1.00 V	53	46.18	11.92
4	11650.00	47.3 AV	54.0	-6.7	1.00 V	53	35.38	11.92

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





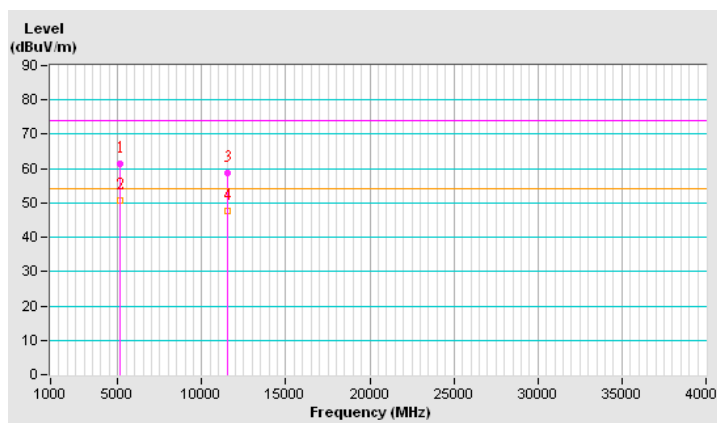
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	74 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 151 / Ant.2
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.3 PK	74.0	-12.7	1.00 H	20	53.58	7.72
2	5150.00	50.6 AV	54.0	-3.4	1.00 H	20	42.88	7.72
3	11510.00	58.6 PK	74.0	-15.4	1.00 H	57	46.87	11.73
4	11510.00	47.5 AV	54.0	-6.5	1.00 H	57	35.77	11.73

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





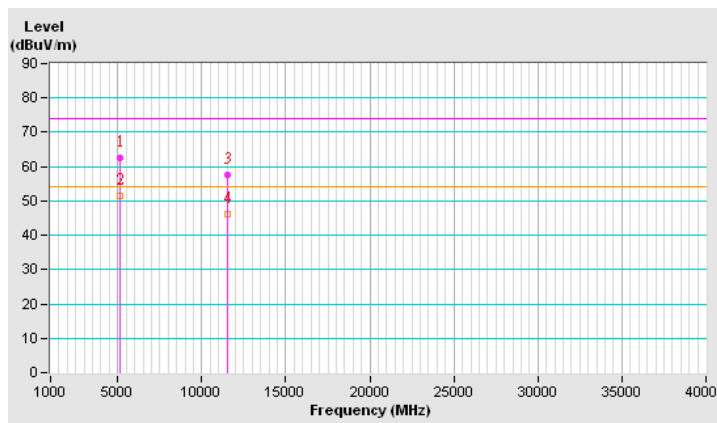
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	23 °C	HUMIDITY	74 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 151 / Ant.2
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.6 PK	74.0	-11.4	1.00 V	88	54.88	7.72
2	5150.00	51.3 AV	54.0	-2.7	1.00 V	88	43.58	7.72
3	11510.00	57.6 PK	74.0	-16.4	1.00 V	76	45.87	11.73
4	11510.00	46.1 AV	54.0	-7.9	1.00 V	76	34.37	11.73

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





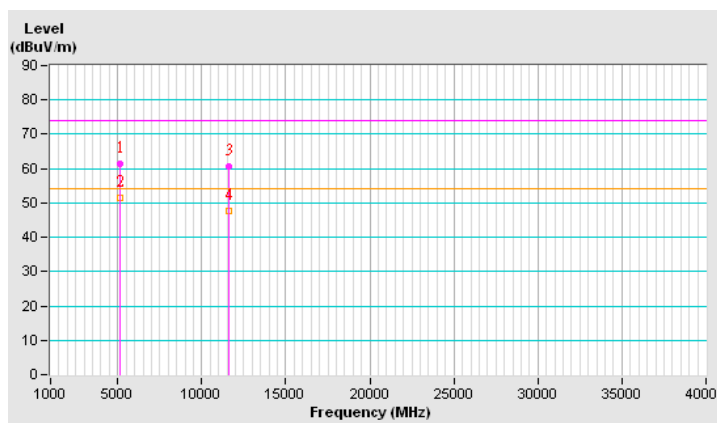
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 159 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.5 PK	74.0	-12.5	1.00 H	35	55.12	6.38
2	5150.00	51.4 AV	54.0	-2.6	1.00 H	35	45.02	6.38
3	11590.00	60.7 PK	74.0	-13.3	1.01 H	117	46.62	14.08
4	11590.00	47.6 AV	54.0	-6.4	1.01 H	117	33.52	14.08

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





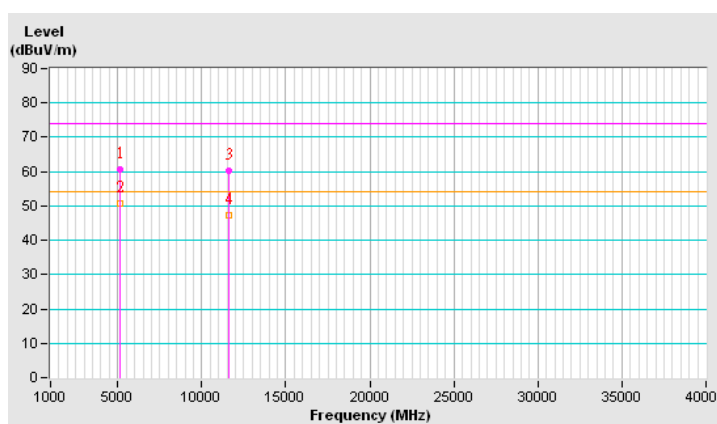
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 159 / Ant.1
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.6 PK	74.0	-13.4	1.06 V	96	54.22	6.38
2	5150.00	50.7 AV	54.0	-3.3	1.06 V	96	44.32	6.38
3	11590.00	60.1 PK	74.0	-13.9	1.00 V	61	46.02	14.08
4	11590.00	47.1 AV	54.0	-6.9	1.00 V	61	33.02	14.08

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





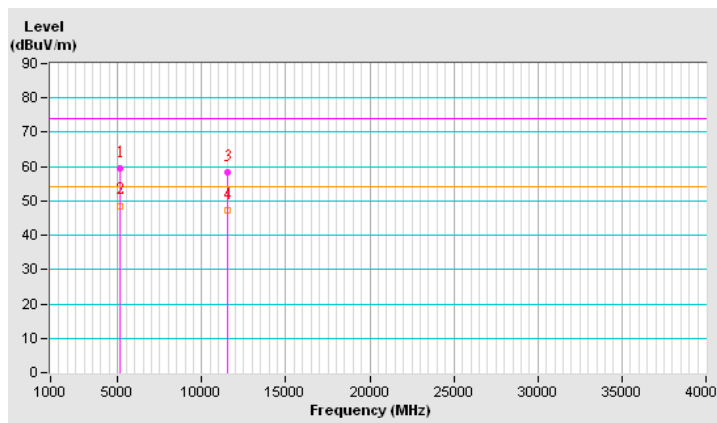
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 151 / Ant.1 + Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.5 PK	74.0	-14.5	1.37 H	20	53.12	6.38
2	5150.00	48.6 AV	54.0	-5.4	1.37 H	20	42.22	6.38
3	11510.00	58.3 PK	74.0	-15.7	1.00 H	114	44.10	14.20
4	11510.00	47.3 AV	54.0	-6.7	1.00 H	114	33.10	14.20

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





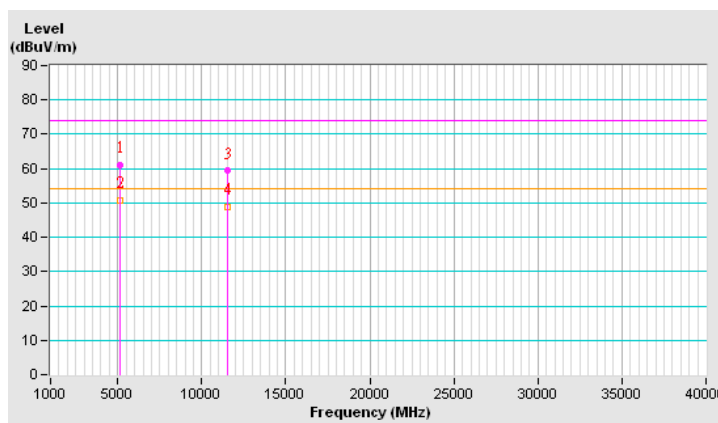
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 151 / Ant.1 + Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.2 PK	74.0	-12.8	1.22 V	185	54.82	6.38
2	5150.00	50.9 AV	54.0	-3.1	1.22 V	185	44.52	6.38
3	11510.00	59.5 PK	74.0	-14.5	1.02 V	250	45.30	14.20
4	11510.00	49.0 AV	54.0	-5.0	1.02 V	250	34.80	14.20

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





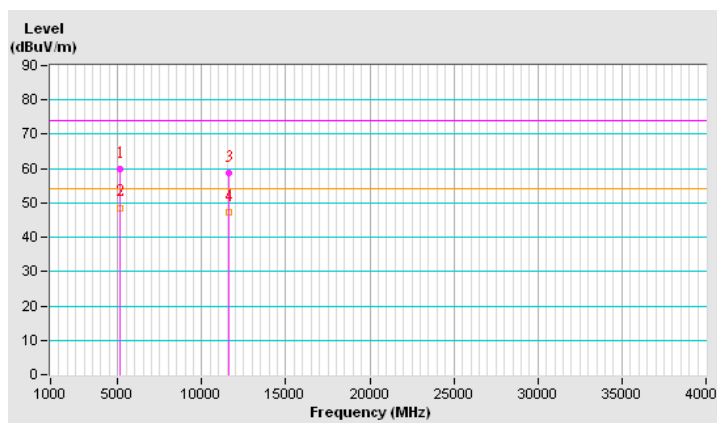
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 159 / Ant.1 + Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	59.7 PK	74.0	-14.3	1.35 H	14	53.32	6.38
2	5150.00	48.6 AV	54.0	-5.4	1.35 H	14	42.22	6.38
3	11590.00	58.6 PK	74.0	-15.4	1.00 H	123	44.52	14.08
4	11590.00	47.4 AV	54.0	-6.6	1.00 H	123	33.32	14.08

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





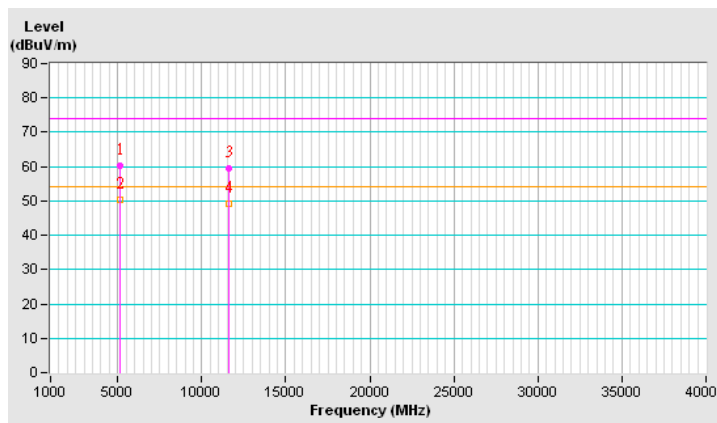
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	23 °C	HUMIDITY	67 %
TEST ENGINEER	Robert Cheng	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 159 / Ant.1 + Ant.3
FINAL TEST DATE	May 23, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.3 PK	74.0	-13.7	1.20 V	161	53.92	6.38
2	5150.00	50.2 AV	54.0	-3.8	1.20 V	161	43.82	6.38
3	11590.00	59.4 PK	74.0	-14.6	1.01 V	245	45.32	14.08
4	11590.00	49.2 AV	54.0	-4.8	1.01 V	245	35.12	14.08

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





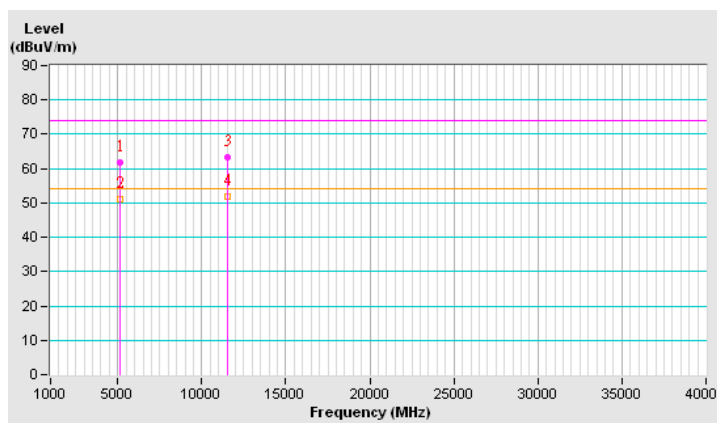
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 151 / Ant.1 + Ant.2 + Ant.3
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.9 PK	74.0	-12.1	1.00 H	23	54.18	7.72
2	5150.00	51.1 AV	54.0	-2.9	1.00 H	23	43.38	7.72
3	11510.00	63.2 PK	74.0	-10.8	1.60 H	40	51.47	11.73
4	11510.00	51.8 AV	54.0	-2.2	1.60 H	40	40.07	11.73

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





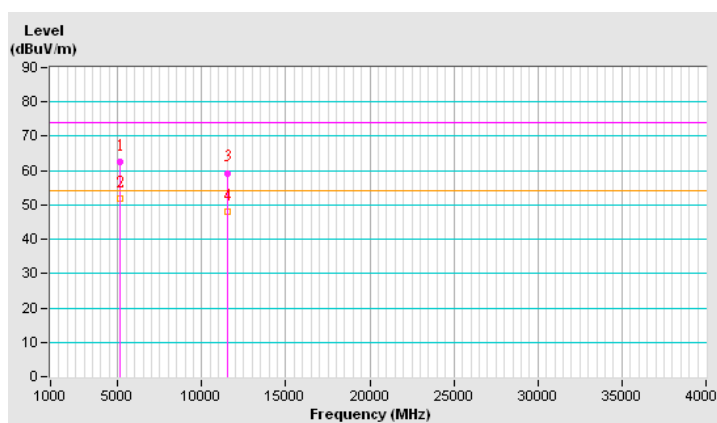
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 151 / Ant.1 + Ant.2 + Ant.3
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.6 PK	74.0	-11.4	1.00 V	94	54.88	7.72
2	5150.00	51.8 AV	54.0	-2.2	1.00 V	94	44.08	7.72
3	11510.00	59.3 PK	74.0	-14.7	1.02 V	62	47.57	11.73
4	11510.00	47.9 AV	54.0	-6.1	1.02 V	62	36.17	11.73

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





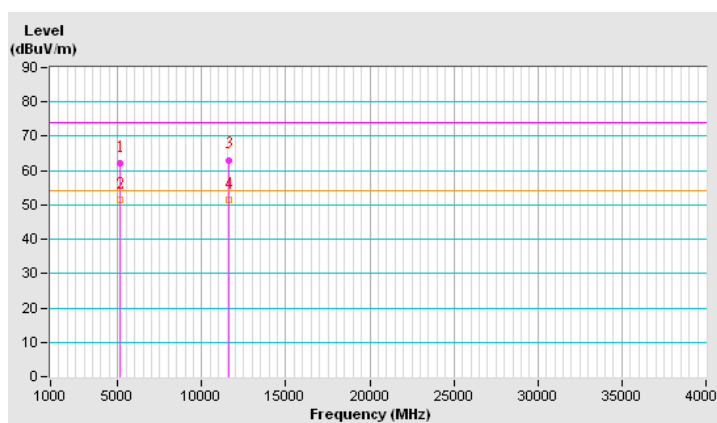
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 159 / Ant.1 + Ant.2 + Ant.3
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.1 PK	74.0	-11.9	1.00 H	21	54.38	7.72
2	5150.00	51.3 AV	54.0	-2.7	1.00 H	21	43.58	7.72
3	11590.00	63.1 PK	74.0	-10.9	1.28 H	40	51.31	11.79
4	11590.00	51.5 AV	54.0	-2.5	1.28 H	40	39.71	11.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





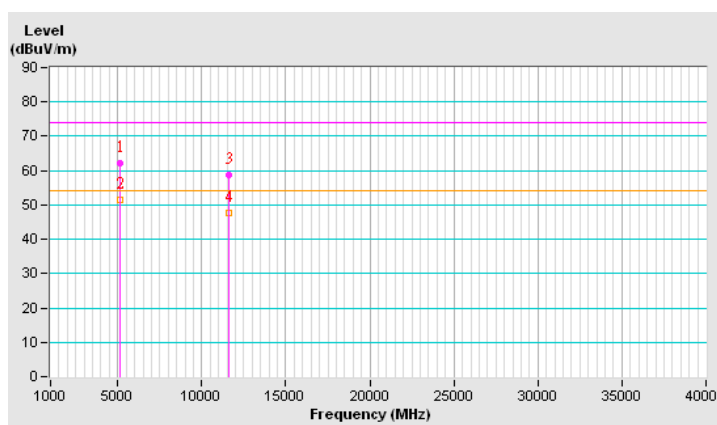
A D T

FREQUENCY RANGE	1GHz~40GHz	TEST SITE NO.	966 Chamber No. G
TEMPERATURE	22 °C	HUMIDITY	71 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 159 / Ant.1 + Ant.2 + Ant.3
FINAL TEST DATE	May 14, 2013		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	62.3 PK	74.0	-11.7	1.02 V	101	54.58	7.72
2	5150.00	51.6 AV	54.0	-2.4	1.02 V	101	43.88	7.72
3	11590.00	58.6 PK	74.0	-15.4	1.06 V	41	46.81	11.79
4	11590.00	47.5 AV	54.0	-6.5	1.06 V	41	35.71	11.79

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. The limit value is defined as per 15.247.





A D T

5.6 BAND EDGE AND FUNDAMENTAL EMISSIONS MEASUREMENT

5.6.1 LIMITS

If maximum conducted output power was used to demonstrate compliance to 15.247(b)(3) requirements, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band average PSD level in 100 kHz. And 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.

Frequency Range (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

5.6.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 6 of equipments list in this report. The following table is the setting of the spectrum analyzer.

Spectrum Analyzer	Setting
Attenuation	Auto
Span Frequency	100 MHz
Filter type	6dB
RB / VB (Emission in restricted band)	1MHz / 3MHz for Peak, 1MHz / 10Hz for Average
RB / VB (Emission in non-restricted band)	100 kHz /300 kHz for Peak



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5.6.3 TEST PROCEDURES

1. The test procedure is the same as section 4.5.3, only the frequency range investigated is limited to 100MHz around bandedges.
2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

5.6.4 TEST SETUP LAYOUT

This test setup layout is the same as that shown in section 4.5.4.

5.6.5 TEST DEVIATION

There is no deviation with the original standard.

5.6.6 EUT OPERATING DURING TEST

The EUT was programmed to be in continuously transmitting mode.

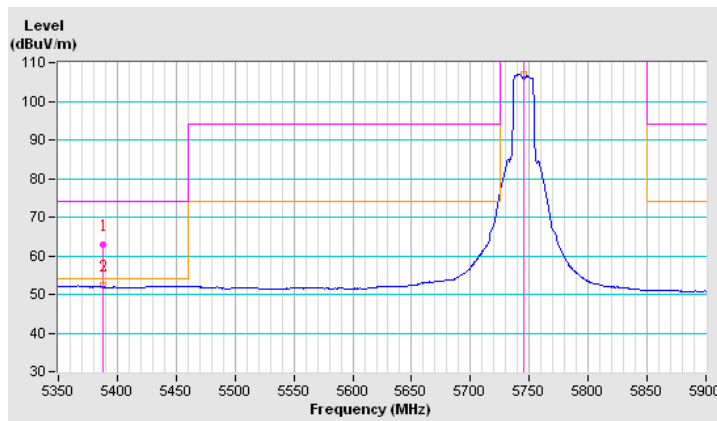
5.6.7 TEST RESULT OF BAND EDGE AND FUNDAMENTAL EMISSIONS

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	65 %
TEST ENGINEER	Nelson Teng	CONFIGURATIONS	11a CH 149 / Ant.3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5387.84	62.9 PK	74.0	-11.1	1.02 H	19	55.49	7.41
2	5387.84	52.4 AV	54.0	-1.6	1.02 H	19	44.99	7.41
3	*5745.00	115.2 PK			1.02 H	12	107.34	7.86
4	*5745.00	107.1 AV			1.02 H	12	99.24	7.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.

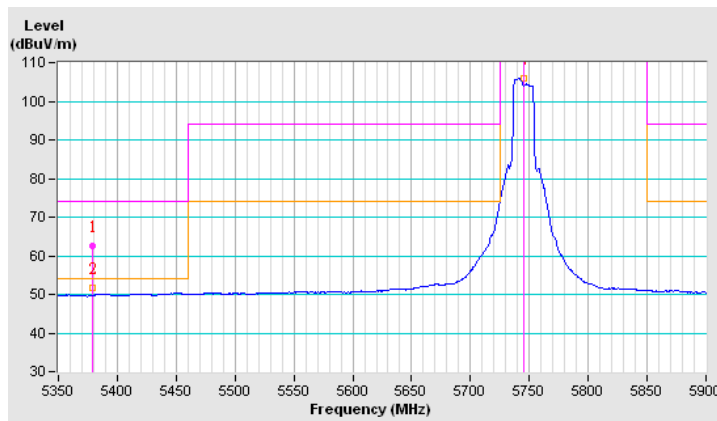


FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	65 %
TEST ENGINEER	Nelson Teng	CONFIGURATIONS	11a CH 149 / Ant.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5378.88	62.7 PK	74.0	-11.3	1.07 V	176	55.31	7.39
2	5378.88	51.7 AV	54.0	-2.3	1.07 V	176	44.31	7.39
3	*5745.00	114.3 PK			1.06 V	334	106.44	7.86
4	*5745.00	105.9 AV			1.06 V	334	98.04	7.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.





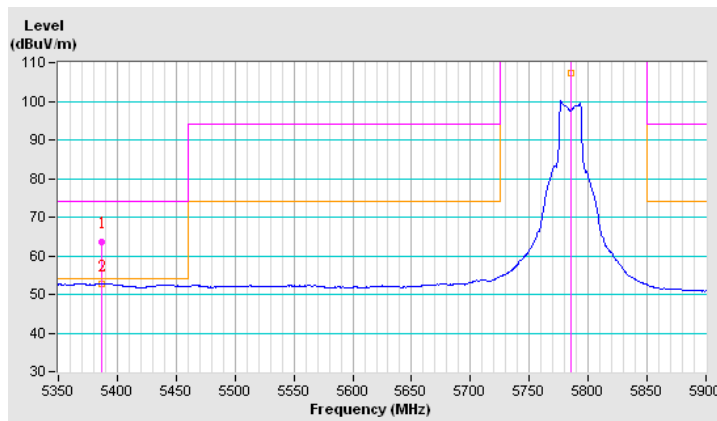
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	65 %
TEST ENGINEER	Nelson Teng	CONFIGURATIONS	11a CH 157 / Ant.3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5387.00	63.6 PK	74.0	-10.4	1.00 H	17	56.20	7.40
2	5387.00	52.6 AV	54.0	-1.4	1.00 H	17	45.20	7.40
3	*5785.00	115.5 PK			1.04 H	22	107.57	7.93
4	*5785.00	107.3 AV			1.04 H	22	99.37	7.93

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.





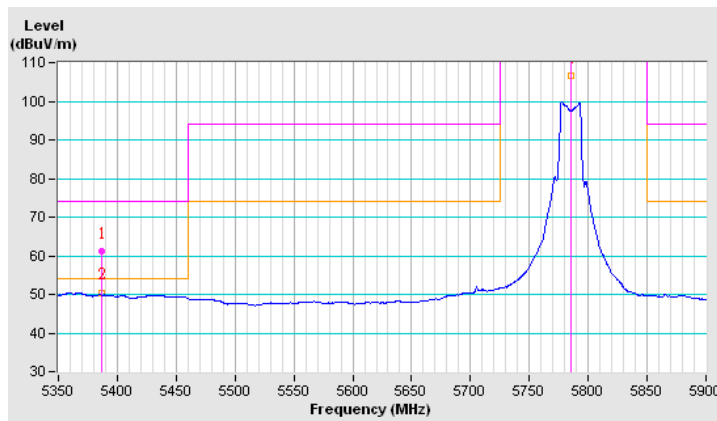
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	24 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11a CH 157 / Ant.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5387.00	61.1 PK	74.0	-12.9	1.38 V	78	53.70	7.40
2	5387.00	50.4 AV	54.0	-3.6	1.38 V	78	43.00	7.40
3	*5785.00	113.4 PK			1.14 V	113	105.47	7.93
4	*5785.00	106.5 AV			1.14 V	113	98.57	7.93

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.





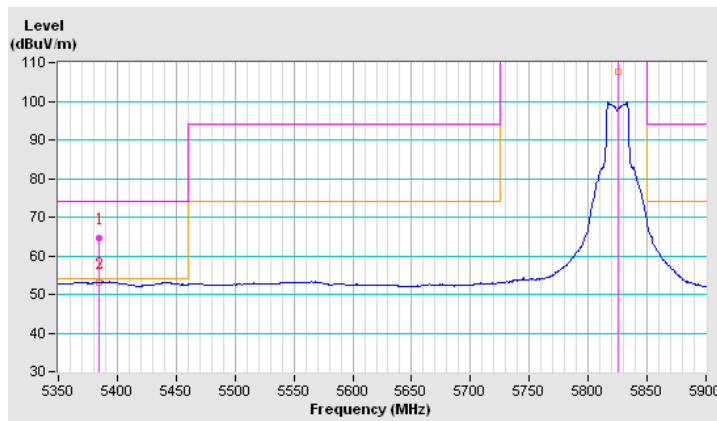
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	65 %
TEST ENGINEER	Nelson Teng	CONFIGURATIONS	11a CH 165 / Ant.3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5385.00	64.7 PK	74.0	-9.3	1.00 H	18	57.30	7.40
2	5385.00	53.1 AV	54.0	-0.9	1.00 H	18	45.70	7.40
3	*5825.00	115.9 PK			1.07 H	26	107.88	8.02
4	*5825.00	107.7 AV			1.07 H	26	99.68	8.02

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.





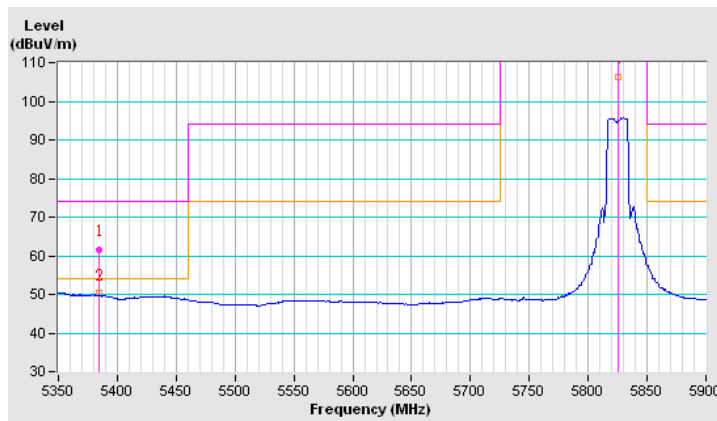
A D T

FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	24 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	11a CH 165 / Ant.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5385.00	61.6 PK	74.0	-12.4	1.00 V	75	54.20	7.40
2	5385.00	50.2 AV	54.0	-3.8	1.00 V	75	42.80	7.40
3	*5825.00	114.6 PK			1.00 V	12	106.58	8.02
4	*5825.00	106.2 AV			1.00 V	12	98.18	8.02

REMARKS:

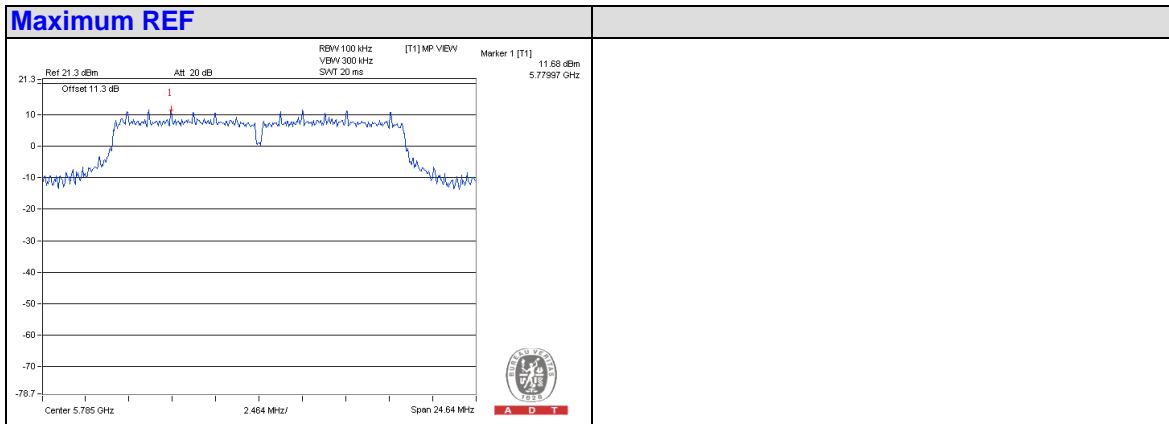
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.



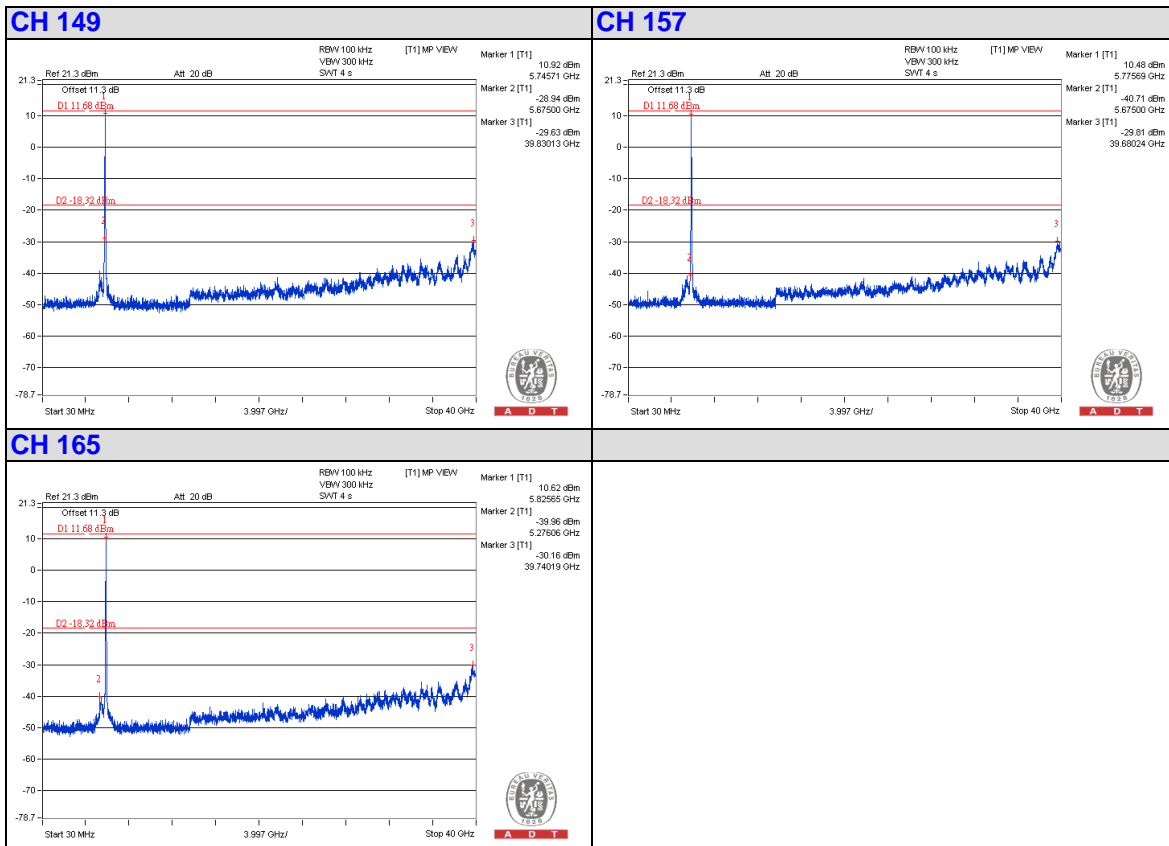


A D T

11a / Ant.3 (Reference Level)



11a / Ant.3 (down 30dBc)





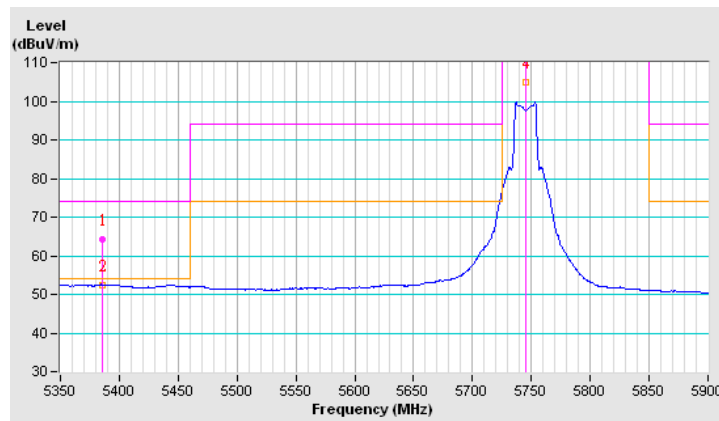
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	65 %
TEST ENGINEER	Nelson Teng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 149 / Ant.3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5386.00	64.2 PK	74.0	-9.8	1.00 H	19	56.80	7.40
2	5386.00	52.4 AV	54.0	-1.6	1.00 H	19	45.00	7.40
3	*5745.00	113.9 PK			1.00 H	4	106.04	7.86
4	*5745.00	105.0 AV			1.00 H	4	97.14	7.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





A D T

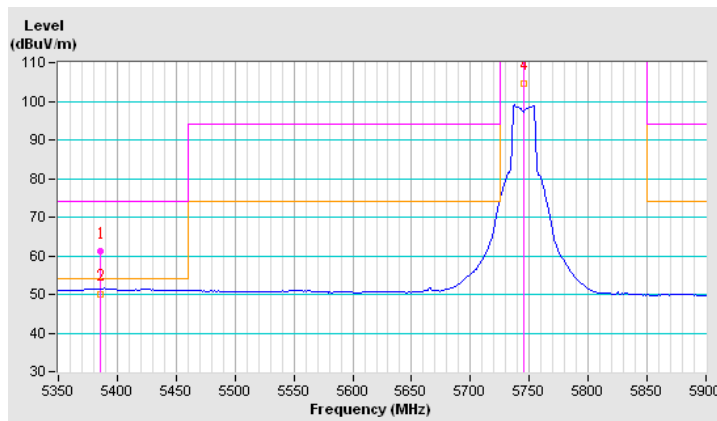
FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 149 / Ant.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5386.00	61.1 PK	74.0	-12.9	1.00 V	76	53.70	7.40
2	5386.00	50.1 AV	54.0	-3.9	1.00 V	76	42.70	7.40
3	*5745.00	112.3 PK			1.17 V	12	104.44	7.86
4	*5745.00	104.7 AV			1.17 V	12	96.84	7.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





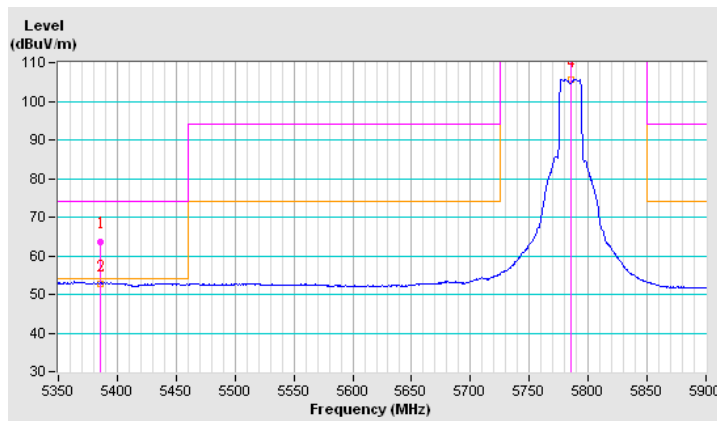
A D T

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	65 %
TEST ENGINEER	Nelson Teng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 157 / Ant.3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5385.97	63.7 PK	74.0	-10.3	1.00 H	15	56.30	7.40
2	5385.97	52.6 AV	54.0	-1.4	1.00 H	15	45.20	7.40
3	*5785.00	114.3 PK			1.00 H	13	106.37	7.93
4	*5785.00	105.5 AV			1.00 H	13	97.57	7.93

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





A D T

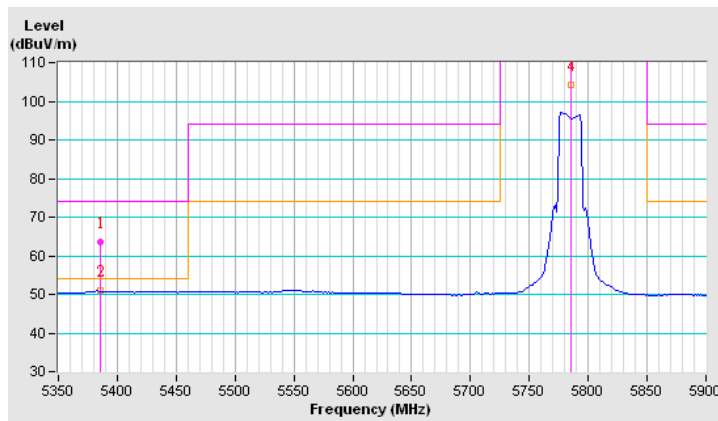
FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 157 / Ant.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5386.00	63.5 PK	74.0	-10.5	1.00 V	72	56.10	7.40
2	5386.00	51.1 AV	54.0	-2.9	1.00 V	72	43.70	7.40
3	*5785.00	112.1 PK			1.15 V	13	104.17	7.93
4	*5785.00	104.2 AV			1.15 V	13	96.27	7.93

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





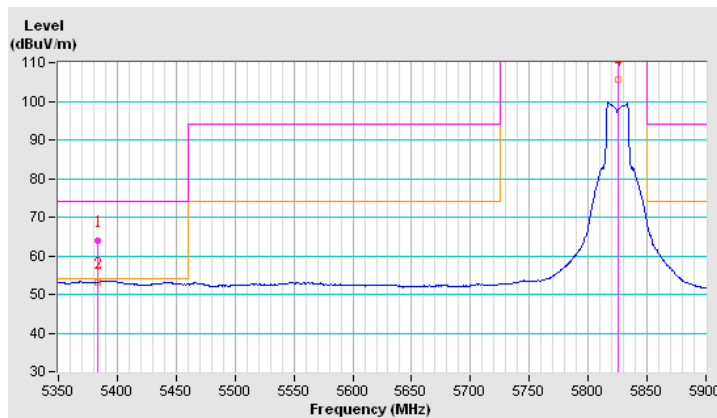
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	65 %
TEST ENGINEER	Nelson Teng	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 165 / Ant.3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5383.00	63.9 PK	74.0	-10.1	1.00 H	17	56.51	7.39
2	5383.00	53.0 AV	54.0	-1.0	1.00 H	17	45.61	7.39
3	*5825.00	114.1 PK			1.00 H	13	106.08	8.02
4	*5825.00	105.6 AV			1.00 H	13	97.58	8.02

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





A D T

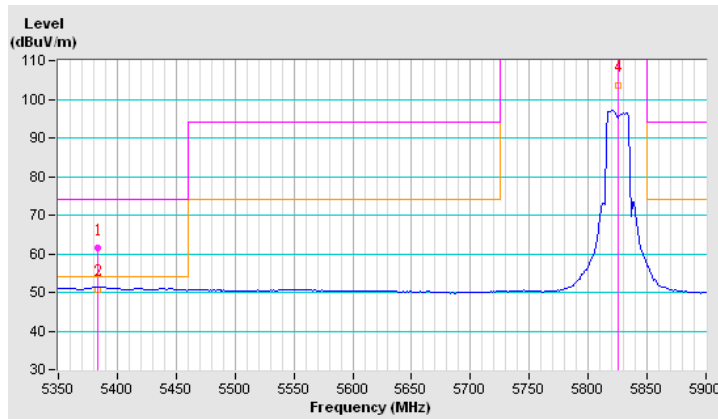
FINAL TEST DATE	May 23, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS0) CH 165 / Ant.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

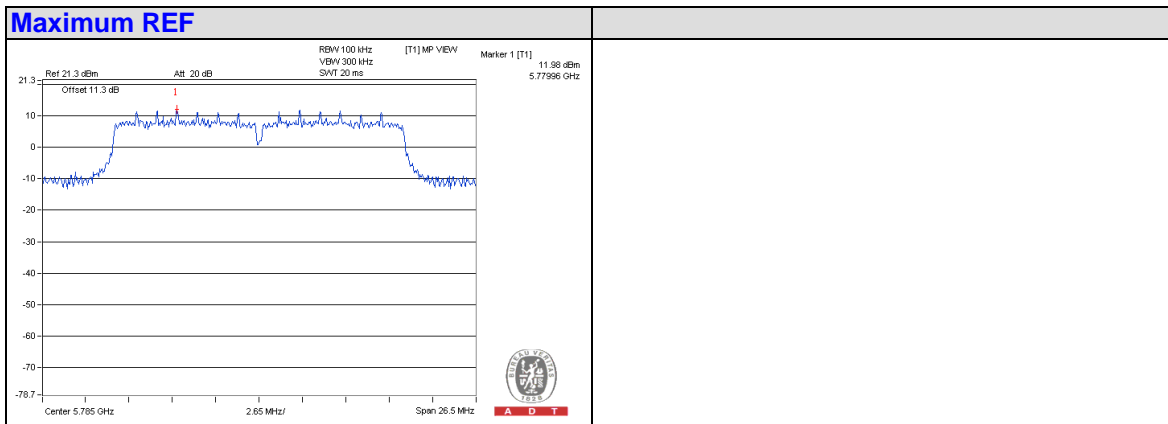
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5383.00	61.4 PK	74.0	-12.6	1.06 V	17	54.01	7.39
2	5383.00	50.8 AV	54.0	-3.2	1.06 V	17	43.41	7.39
3	*5825.00	112.4 PK			1.08 V	17	104.38	8.02
4	*5825.00	103.7 AV			1.08 V	17	95.68	8.02

REMARKS:

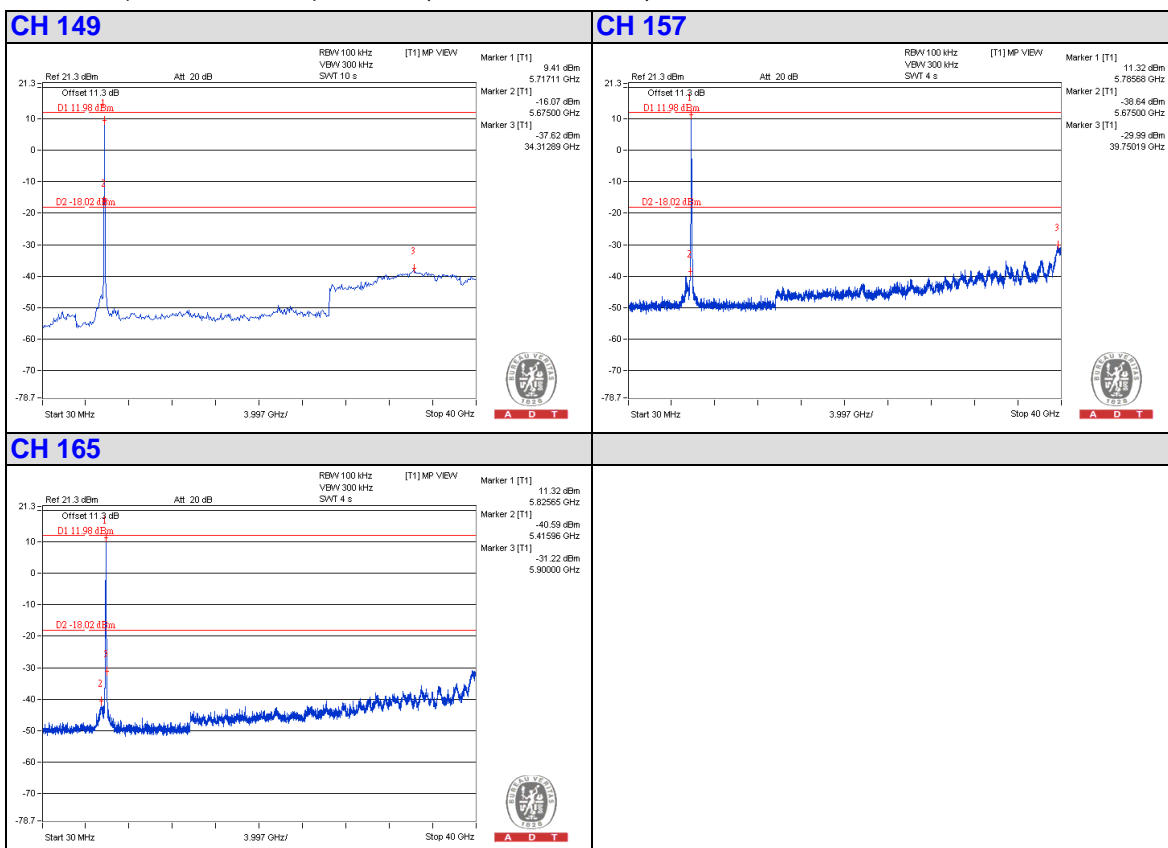
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.



802.11n(20MHz, MCS0) / Ant. 3 (Reference Level)



802.11n(20MHz, MCS0) / Ant.3 (Reference Level)





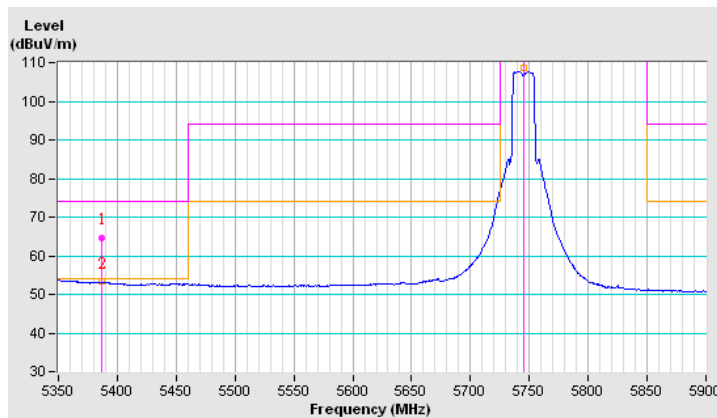
A D T

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	65 %
TEST ENGINEER	Nelson Teng	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 149 / Ant.1 + Ant.3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5387.02	64.6 PK	74.0	-9.4	1.01 H	20	57.20	7.40
2	5387.02	53.3 AV	54.0	-0.7	1.01 H	20	45.90	7.40
3	*5745.00	118.4 PK			1.04 H	18	110.54	7.86
4	*5745.00	108.6 AV			1.04 H	18	100.74	7.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.





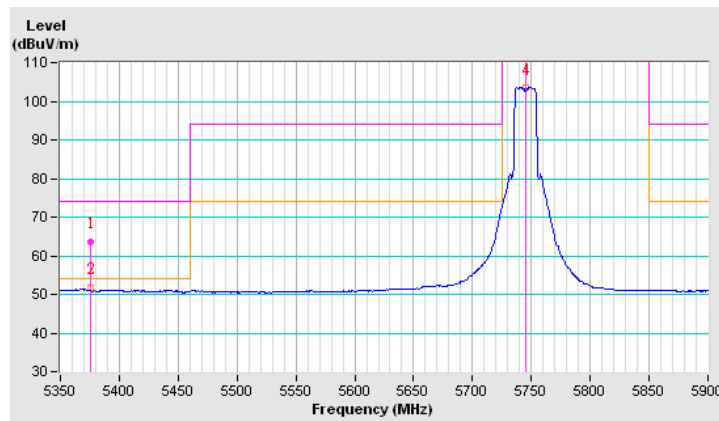
A D T

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	65 %
TEST ENGINEER	Nelson Teng	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 149 / Ant.1 + Ant.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5376.13	63.5 PK	74.0	-10.5	1.07 V	178	56.11	7.39
2	5376.13	51.8 AV	54.0	-2.2	1.07 V	178	44.41	7.39
3	*5745.00	113.9 PK			1.07 V	7	106.04	7.86
4	*5745.00	103.4 AV			1.07 V	7	95.54	7.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.

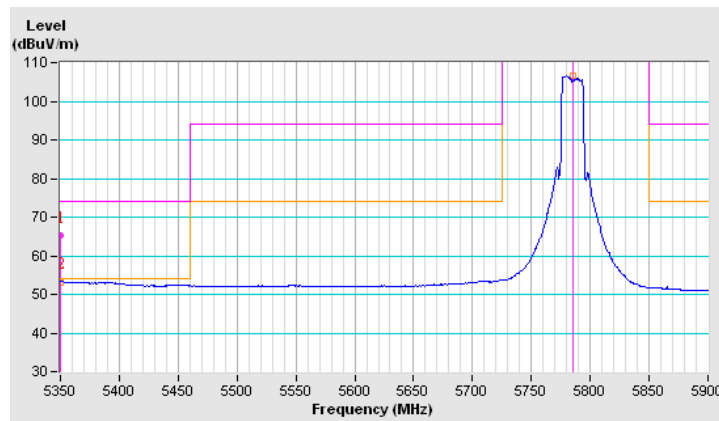


FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	65 %
TEST ENGINEER	Nelson Teng	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 157 / Ant.1 + Ant.3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	65.1 PK	74.0	-8.9	1.03 H	22	57.77	7.33
2	5350.00	53.2 AV	54.0	-0.8	1.03 H	22	45.87	7.33
3	*5785.00	116.3 PK			1.02 H	19	108.37	7.93
4	*5785.00	106.6 AV			1.02 H	19	98.67	7.93

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





A D T

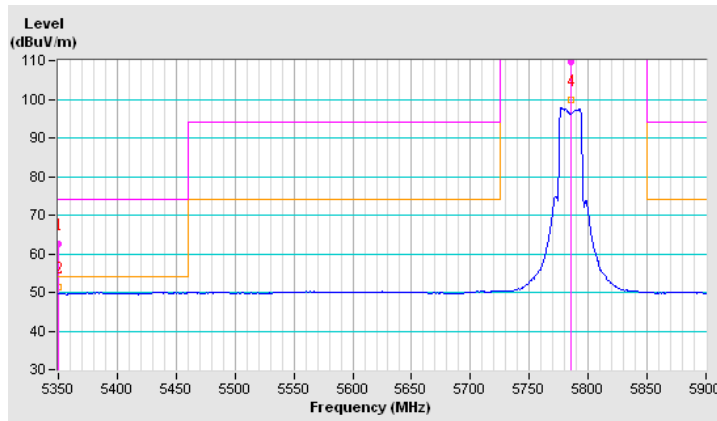
FINAL TEST DATE	May 14, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 157 / Ant.1 + Ant.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	62.6 PK	74.0	-11.4	1.08 V	183	55.27	7.33
2	5350.00	51.4 AV	54.0	-2.6	1.08 V	183	44.07	7.33
3	*5785.00	109.6 PK			1.06 V	5	101.67	7.93
4	*5785.00	99.9 AV			1.06 V	5	91.92	7.93

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





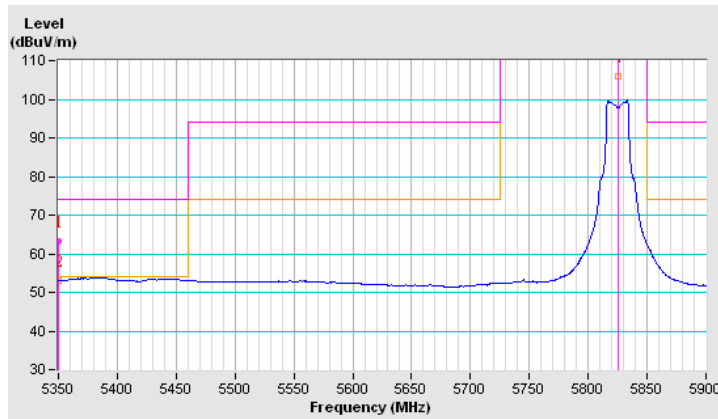
A D T

FINAL TEST DATE	May 14, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 165 / Ant.1 + Ant.2

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	63.3 PK	74.0	-10.7	1.44 H	22	55.97	7.33
2	5350.00	53.2 AV	54.0	-0.8	1.44 H	22	45.87	7.33
3	*5825.00	116.3 PK			1.00 H	21	108.28	8.02
4	*5825.00	106.1 AV			1.00 H	21	98.08	8.02

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





A D T

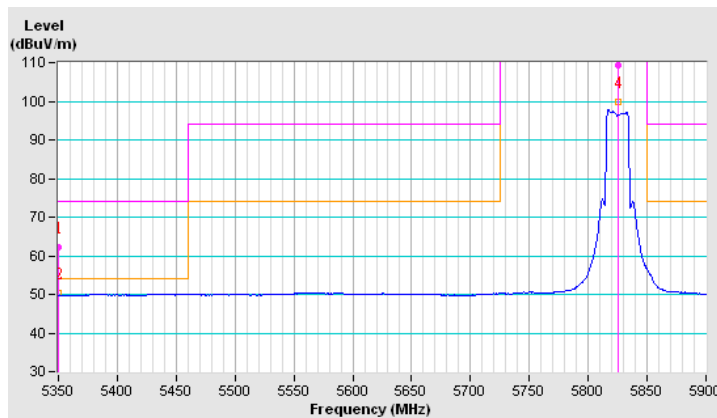
FINAL TEST DATE	May 14, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS8) CH 165 / Ant.1 + Ant.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	62.2 PK	74.0	-11.8	1.00 V	140	54.87	7.33
2	5350.00	50.5 AV	54.0	-3.5	1.00 V	140	43.17	7.33
3	*5825.00	109.3 PK			1.05 V	7	101.28	8.02
4	*5825.00	99.8 AV			1.05 V	7	91.78	8.02

REMARKS:

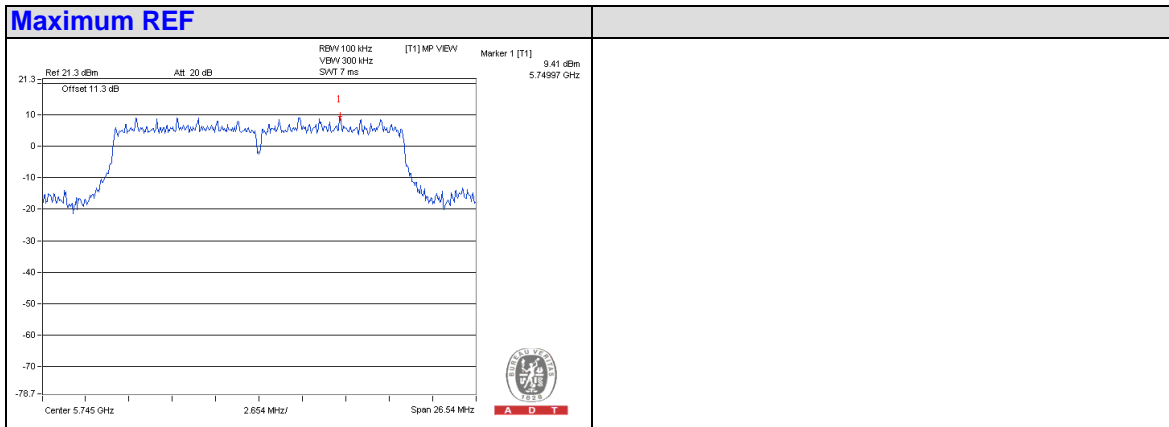
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.



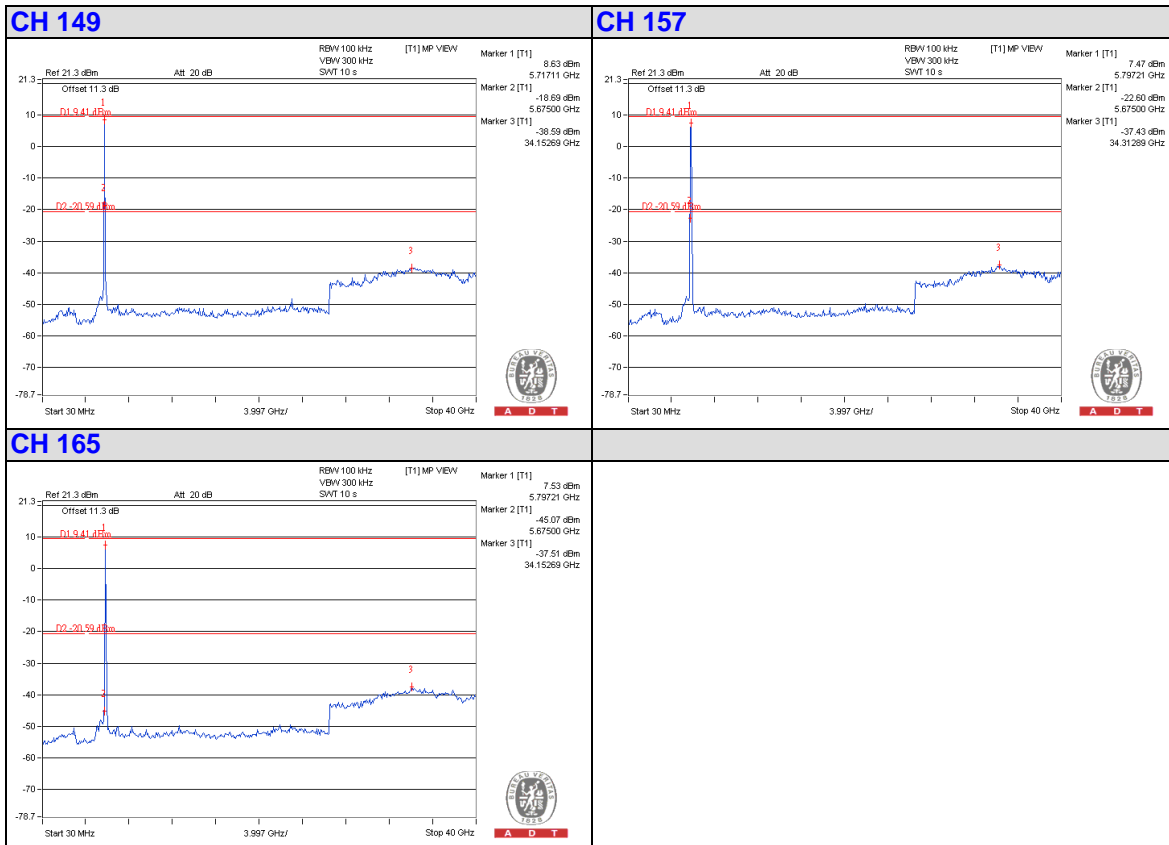


A D T

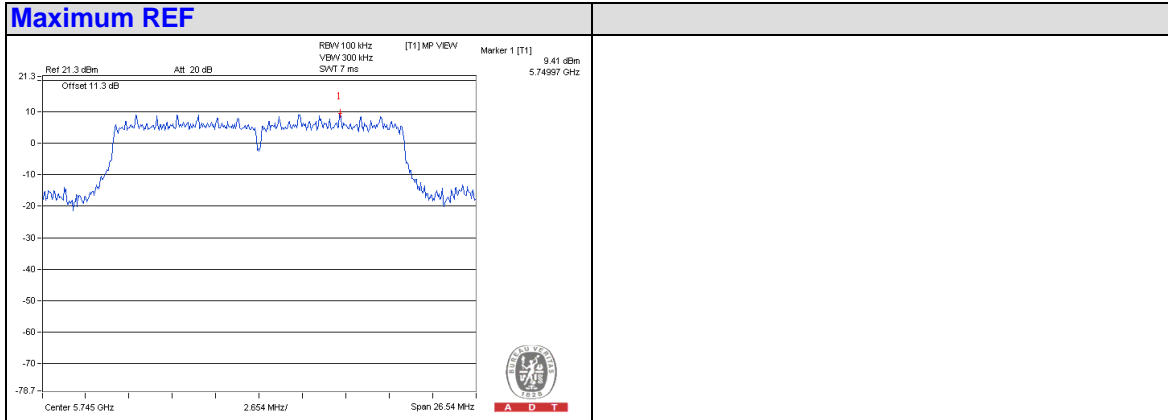
802.11n(20MHz, MCS8) / Ant.1 (Reference Level)



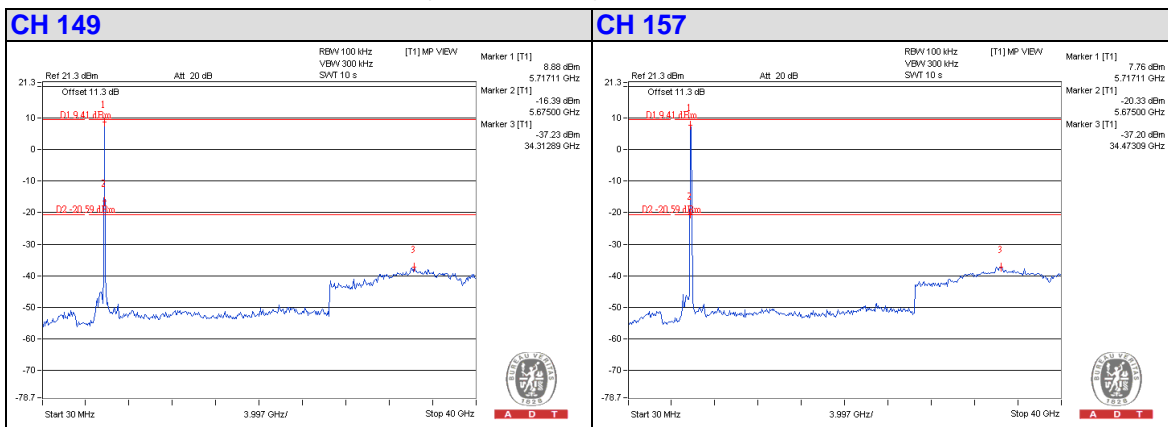
802.11n(20MHz, MCS8) / Ant.1 (down 30dBc)



802.11n(20MHz, MCS8) / Ant.3 (Reference Level)



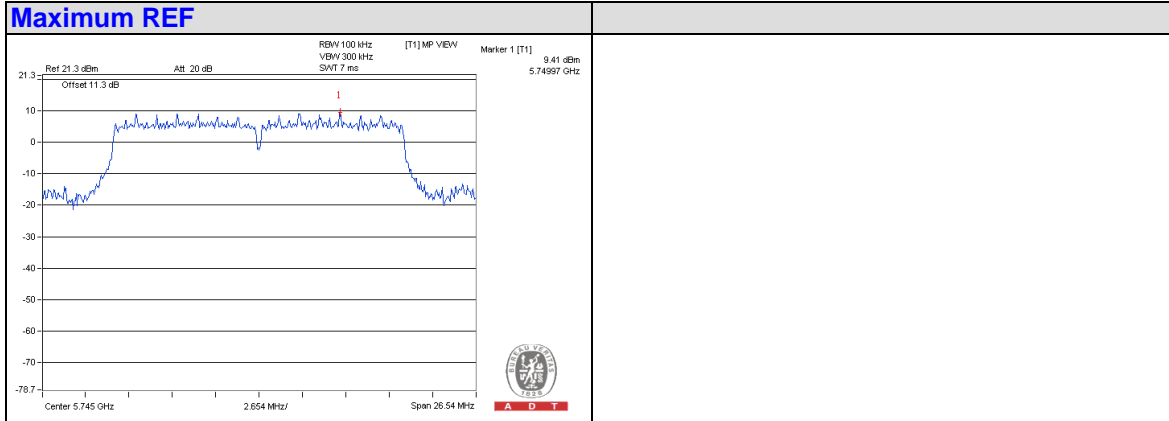
802.11n(20MHz, MCS8) / Ant.3 (down 30dBc)



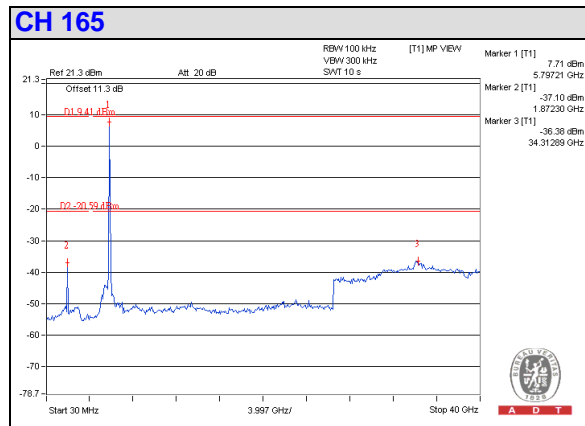


A D T

802.11n(20MHz, MCS8) / Ant.2 (Reference Level)



802.11n(20MHz, MCS8) / Ant.2 (down 30dBc)





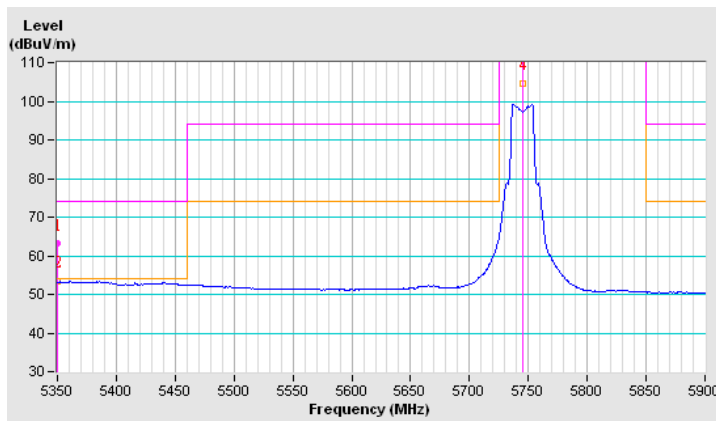
A D T

FINAL TEST DATE	May 13, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 149 / Ant.1 + Ant.2 + Ant. 3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	63.1 PK	74.0	-10.9	1.00 H	25	55.77	7.33
2	5350.00	53.4 AV	54.0	-0.6	1.00 H	25	46.07	7.33
3	*5745.00	114.7 PK			1.02 H	20	106.84	7.86
4	*5745.00	104.7 AV			1.02 H	20	96.84	7.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.





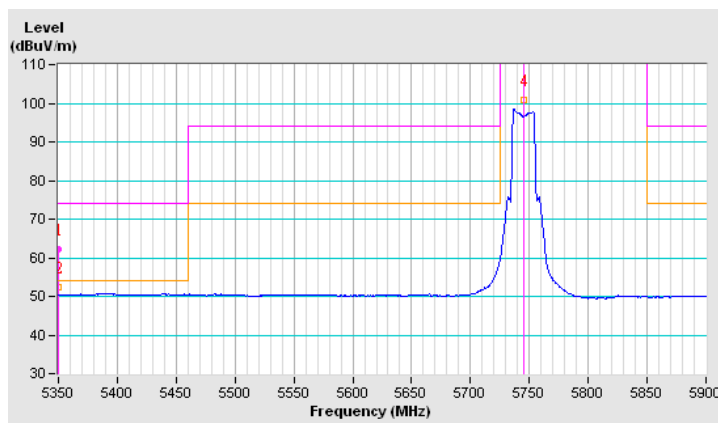
A D T

FINAL TEST DATE	May 13, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 149 / Ant.1 + Ant.2 + Ant. 3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	62.3 PK	74.0	-11.7	1.00 V	84	54.97	7.33
2	5350.00	52.5 AV	54.0	-1.5	1.00 V	84	45.17	7.33
3	*5745.00	111.2 PK			1.00 V	127	103.34	7.86
4	*5745.00	101.0 AV			1.00 V	127	93.14	7.86

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





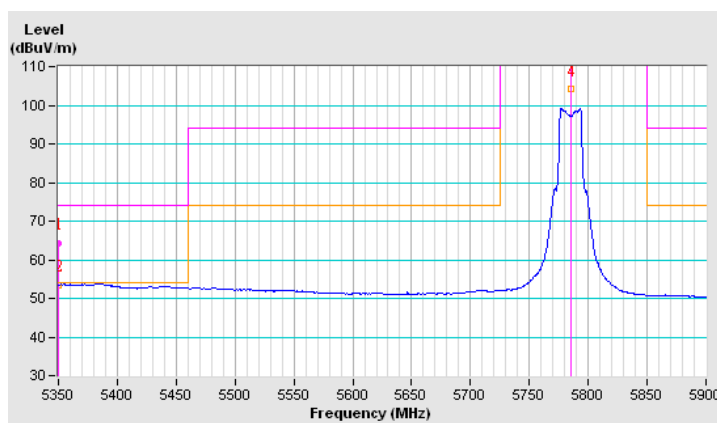
A D T

FINAL TEST DATE	May 13, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 157 / Ant.1 + Ant.2 + Ant. 3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	64.4 PK	74.0	-9.6	1.00 H	24	57.07	7.33
2	5350.00	53.5 AV	54.0	-0.5	1.00 H	24	46.17	7.33
3	*5785.00	114.2 PK			1.00 H	19	106.27	7.93
4	*5785.00	104.1 AV			1.00 H	19	96.17	7.93

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





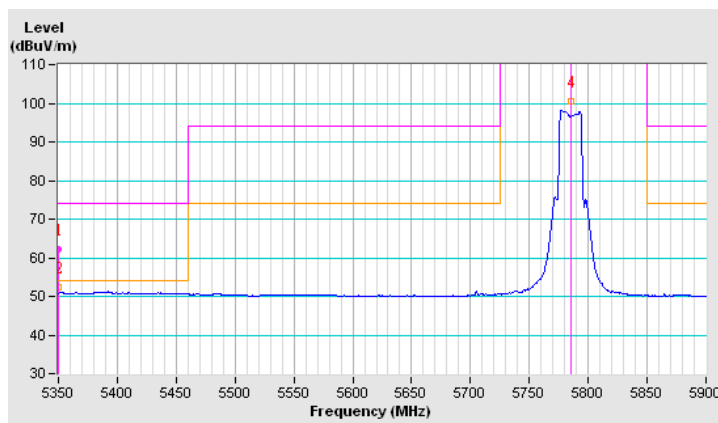
A D T

FINAL TEST DATE	May 13, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 157 / Ant.1 + Ant.2 + Ant. 3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	62.3 PK	74.0	-11.7	1.05 V	73	54.97	7.33
2	5350.00	52.4 AV	54.0	-1.6	1.05 V	73	45.07	7.33
3	*5785.00	111.5 PK			1.00 V	121	103.57	7.93
4	*5785.00	100.5 AV			1.00 V	121	92.57	7.93

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





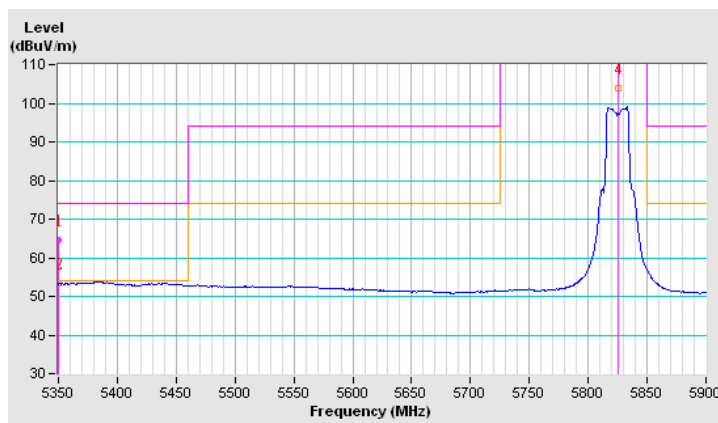
A D T

FINAL TEST DATE	May 13, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 165 / Ant.1 + Ant.2 + Ant. 3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	64.7 PK	74.0	-9.3	1.00 H	23	57.37	7.33
2	5350.00	53.5 AV	54.0	-0.5	1.00 H	23	46.17	7.33
3	*5825.00	114.0 PK			1.01 H	21	105.98	8.02
4	*5825.00	103.9 AV			1.01 H	21	95.88	8.02

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





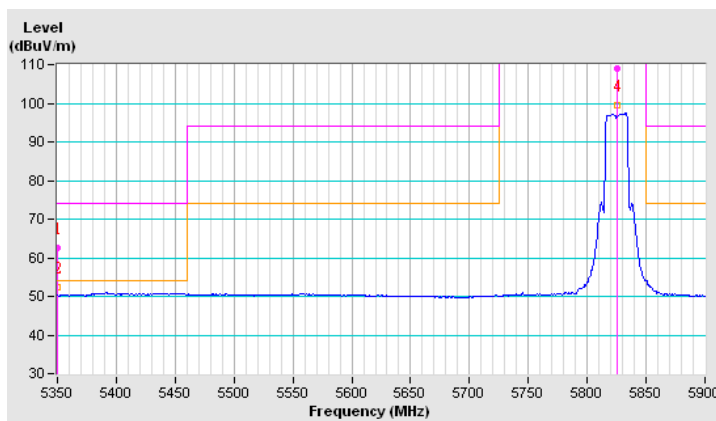
A D T

FINAL TEST DATE	May 14, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(20MHz, MCS16) CH 165 / Ant.1 + Ant.2 + Ant. 3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	62.5 PK	74.0	-11.5	1.00 V	82	55.17	7.33
2	5350.00	52.4 AV	54.0	-1.6	1.00 V	82	45.07	7.33
3	*5825.00	108.9 PK			1.00 V	129	100.88	8.02
4	*5825.00	99.6 AV			1.00 V	129	91.58	8.02

REMARKS:

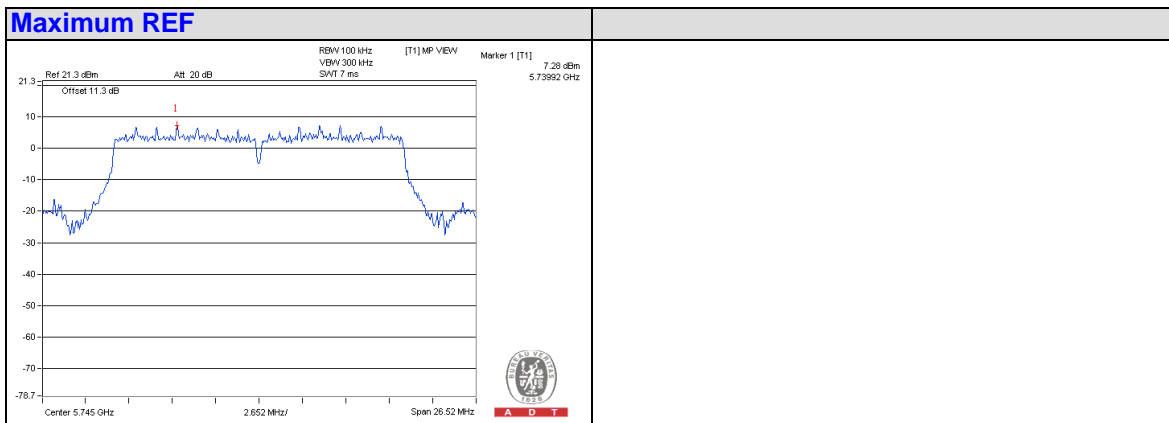
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.



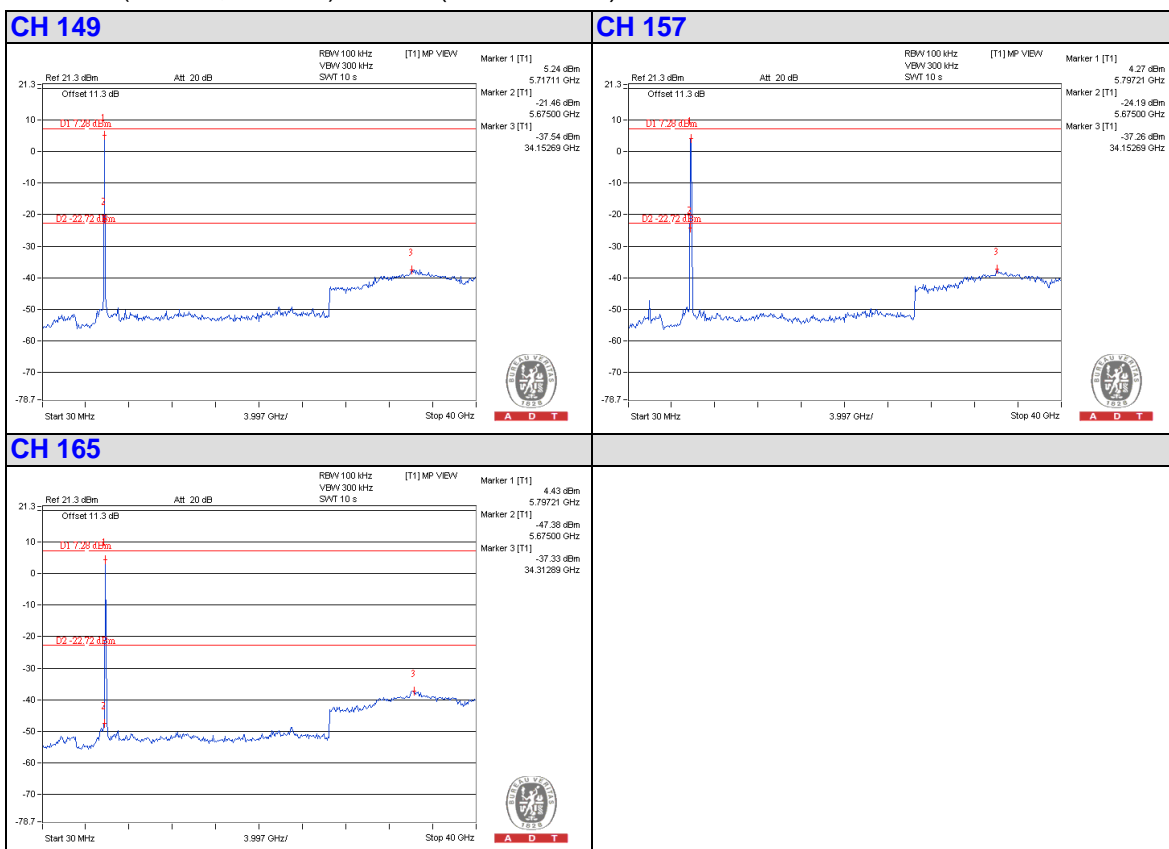


A D T

802.11n(20MHz, MCS16) / Ant.1 (Reference Level)



802.11n(20MHz, MCS16) / Ant.1 (down 30dBc)

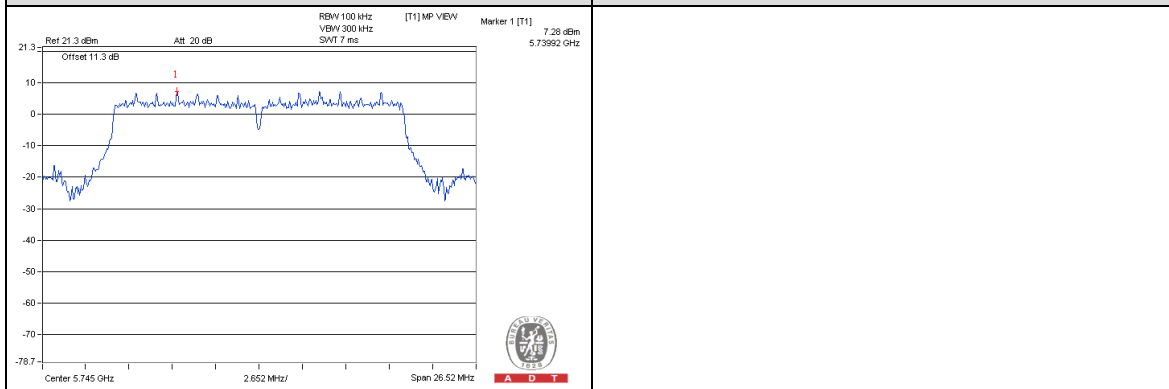




A D T

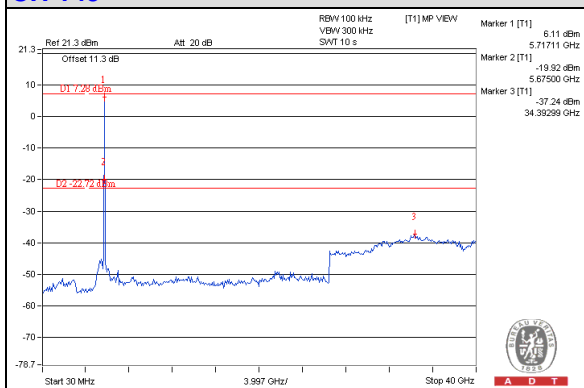
802.11n(20MHz, MCS16) / Ant.2 (Reference Level)

Maximum REF

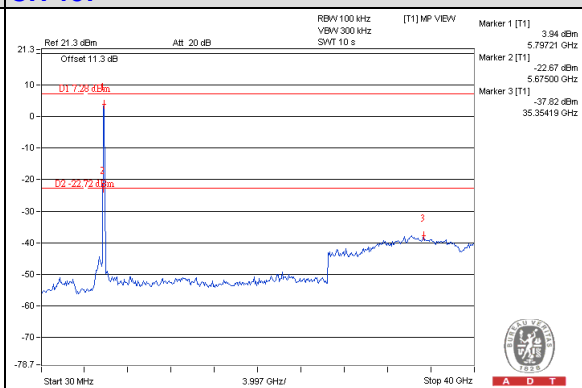


802.11n(20MHz, MCS16) / Ant.2 (down 30dBc)

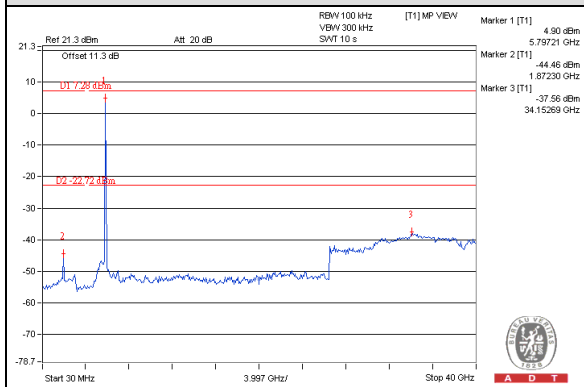
CH 149



CH 157



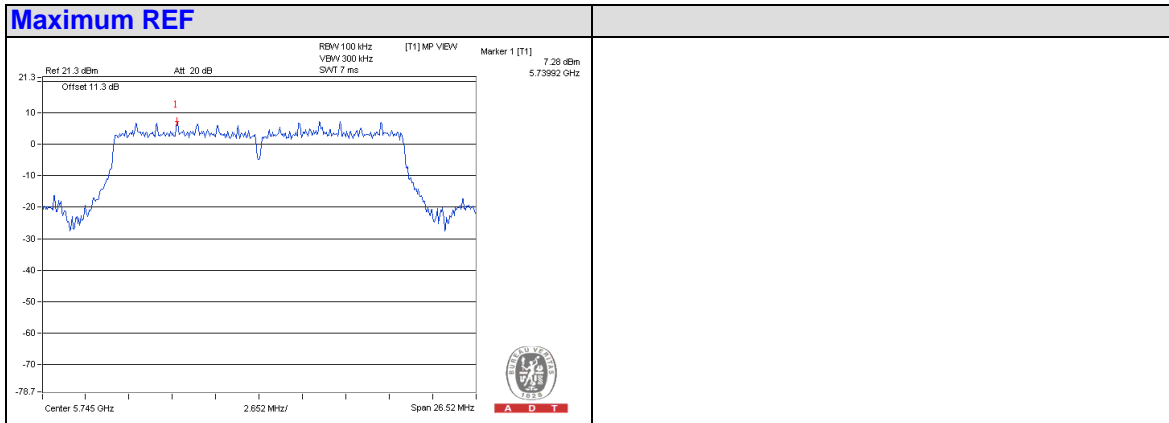
CH 165



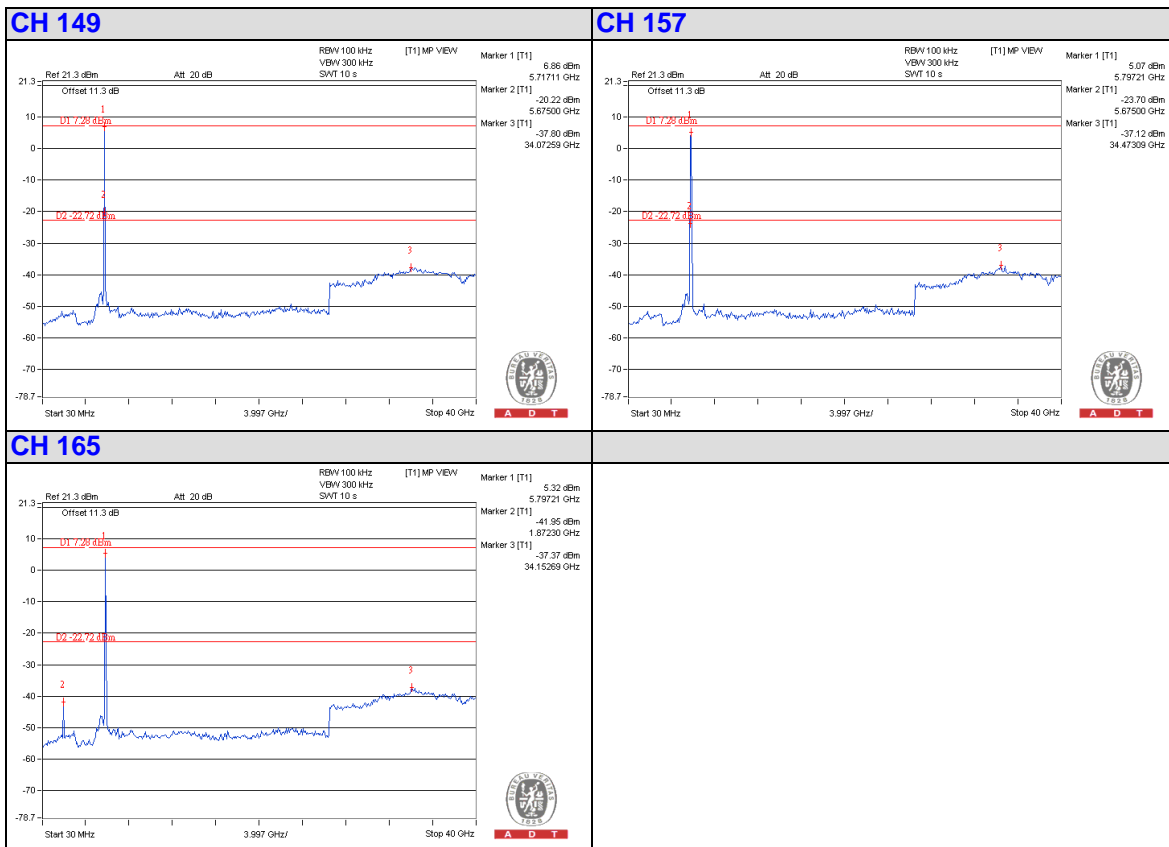


A D T

802.11n(20MHz, MCS16) / Ant.3 (Reference Level)



802.11n(20MHz, MCS16) / Ant.3 (down 30dBc)





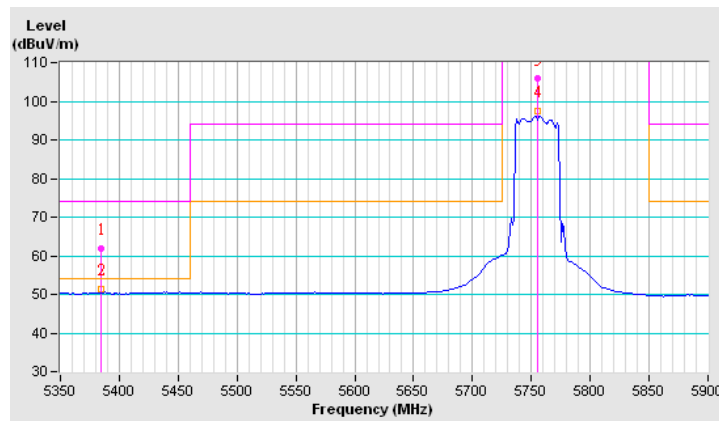
A D T

FINAL TEST DATE	May 09, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 151 / Ant.2

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5384.00	61.9 PK	74.0	-12.1	1.00 H	23	54.51	7.39
2	5384.00	51.4 AV	54.0	-2.6	1.00 H	23	44.01	7.39
3	*5755.00	105.8 PK			1.00 H	11	97.92	7.88
4	*5755.00	97.5 AV			1.00 H	11	89.62	7.88

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





A D T

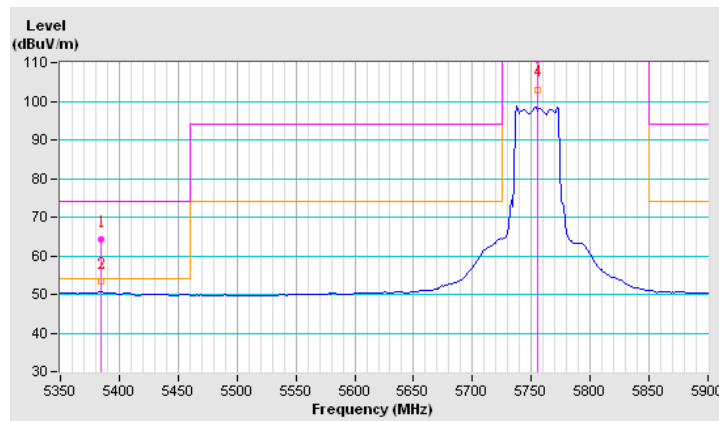
FINAL TEST DATE	May 09, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 151 / Ant.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5384.00	64.1 PK	74.0	-9.9	1.02 V	113	56.71	7.39
2	5384.00	53.3 AV	54.0	-0.7	1.02 V	113	45.91	7.39
3	*5755.00	110.7 PK			1.00 V	126	102.82	7.88
4	*5755.00	102.9 AV			1.00 V	126	95.02	7.88

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





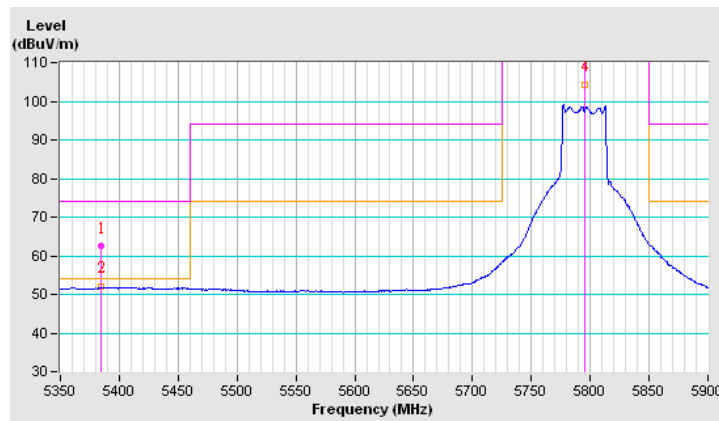
A D T

FINAL TEST DATE	May 17, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	65 %
TEST ENGINEER	Nelson Teng	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 159 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5384.00	62.4 PK	74.0	-11.6	1.00 H	23	55.01	7.39
2	5384.00	52.2 AV	54.0	-1.8	1.00 H	23	44.81	7.39
3	*5795.00	112.4 PK			1.00 H	106	104.43	7.97
4	*5795.00	104.2 AV			1.00 H	106	96.23	7.97

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





A D T

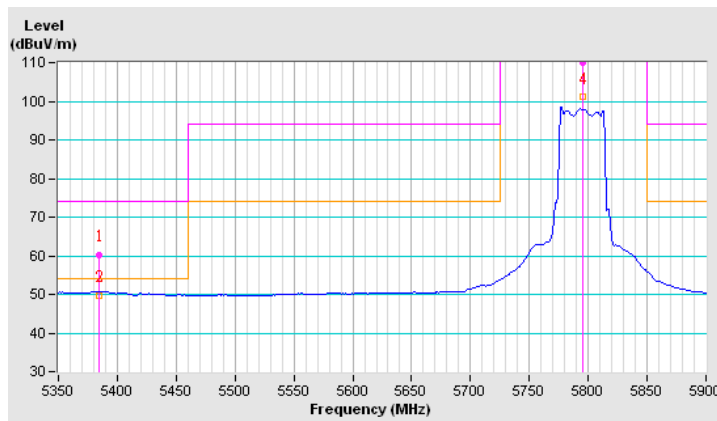
FINAL TEST DATE	May 09, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS0) CH 159 / Ant.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

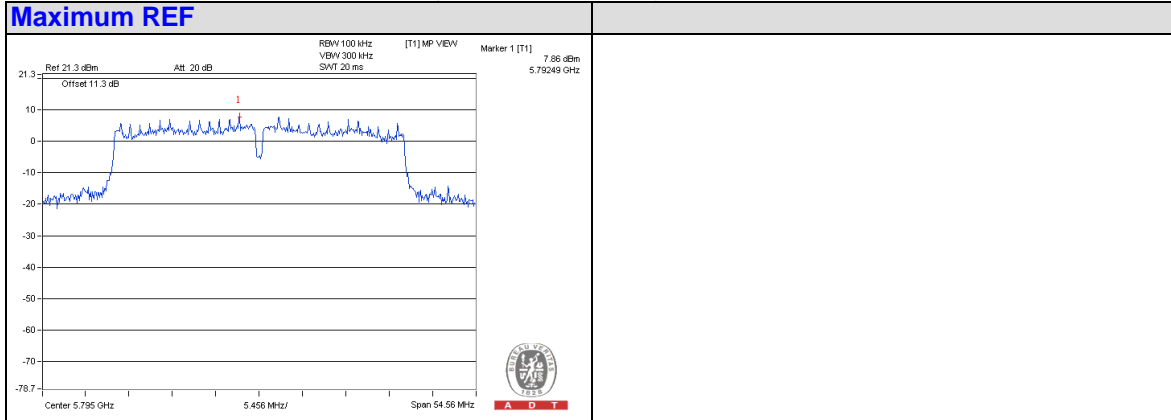
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5384.00	60.1 PK	74.0	-13.9	1.04 V	109	52.71	7.39
2	5384.00	49.7 AV	54.0	-4.3	1.04 V	109	42.31	7.39
3	*5795.00	110.1 PK			1.00 V	128	102.13	7.97
4	*5795.00	101.1 AV			1.00 V	128	93.13	7.97

REMARKS:

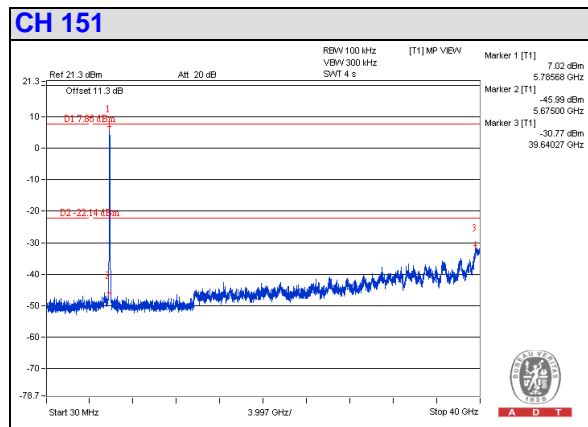
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.



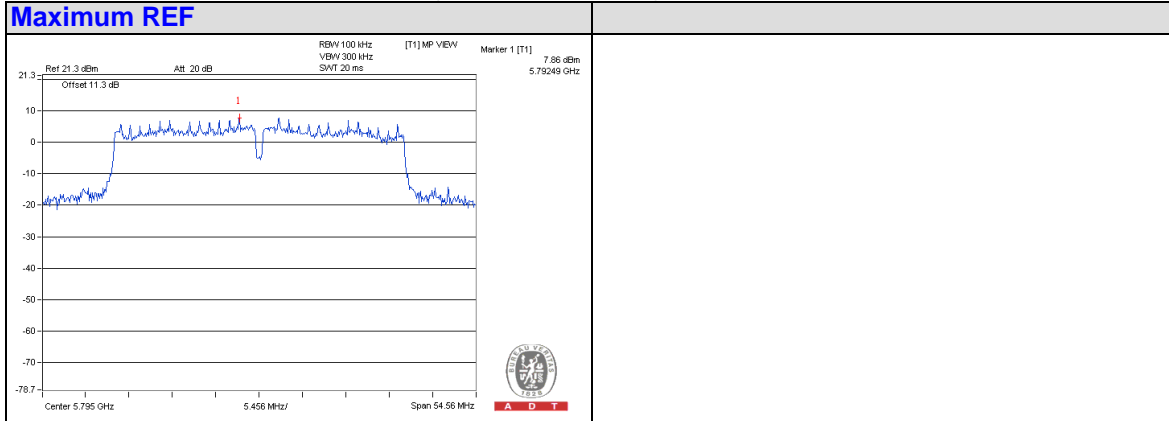
802.11n(40MHz, MCS0) / Ant.2 (Reference Level)



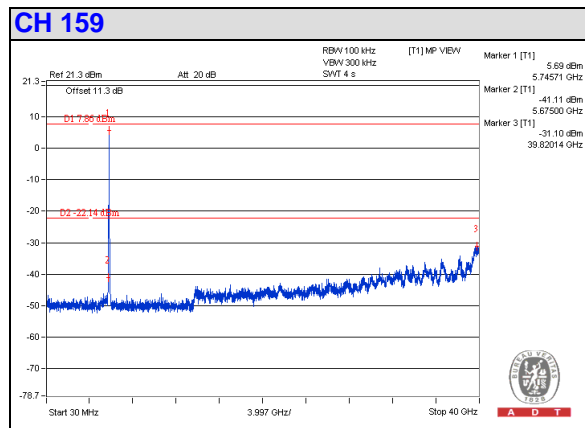
802.11n(40MHz, MCS0) / Ant.2 (down 30dBc)



802.11n(40MHz, MCS0) / Ant.1 (Reference Level)



802.11n(40MHz, MCS0) / Ant.1 (down 30dBc)





A D T

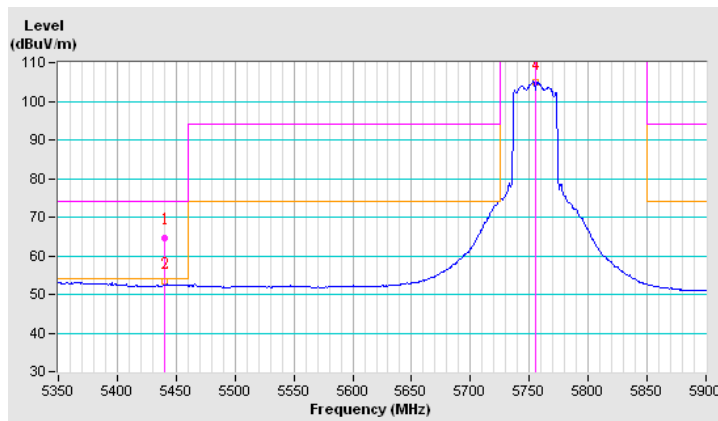
FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	65 %
TEST ENGINEER	Nelson Teng	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 151 / Ant.1 + Ant.3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5440.20	64.7 PK	74.0	-9.3	1.00 H	19	57.23	7.47
2	5440.20	53.3 AV	54.0	-0.7	1.00 H	19	45.83	7.47
3	*5755.00	114.3 PK			1.02 H	18	106.42	7.88
4	*5755.00	104.8 AV			1.02 H	18	96.92	7.88

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





A D T

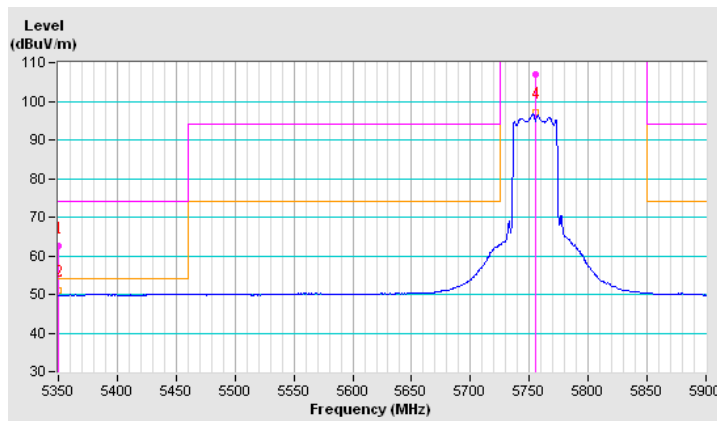
FINAL TEST DATE	May 14, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 151 / Ant.1 + Ant.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	62.4 PK	74.0	-11.6	1.04 V	128	55.07	7.33
2	5350.00	51.1 AV	54.0	-2.9	1.04 V	128	43.77	7.33
3	*5755.00	107.1 PK			1.07 V	3	99.22	7.88
4	*5755.00	97.2 AV			1.07 V	3	89.32	7.88

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





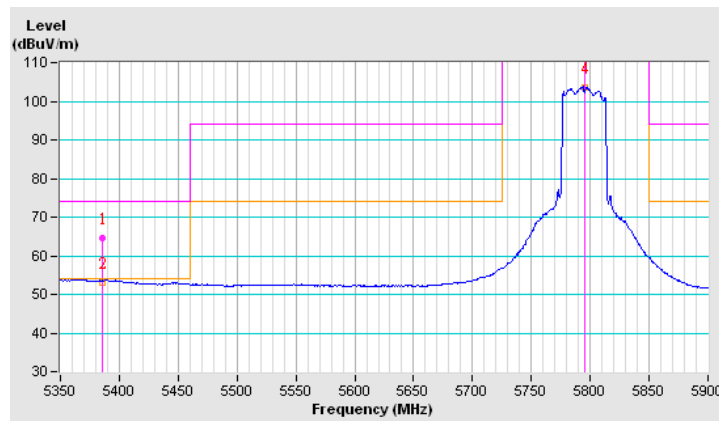
A D T

FINAL TEST DATE	May 16, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	25 °C	HUMIDITY	65 %
TEST ENGINEER	Nelson Teng	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 159 / Ant.1 + Ant.3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5385.53	64.6 PK	74.0	-9.4	1.02 H	21	57.20	7.40
2	5385.53	53.1 AV	54.0	-0.9	1.02 H	21	45.70	7.40
3	*5795.00	114.2 PK			1.05 H	19	106.23	7.97
4	*5795.00	103.6 AV			1.05 H	19	95.63	7.97

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





A D T

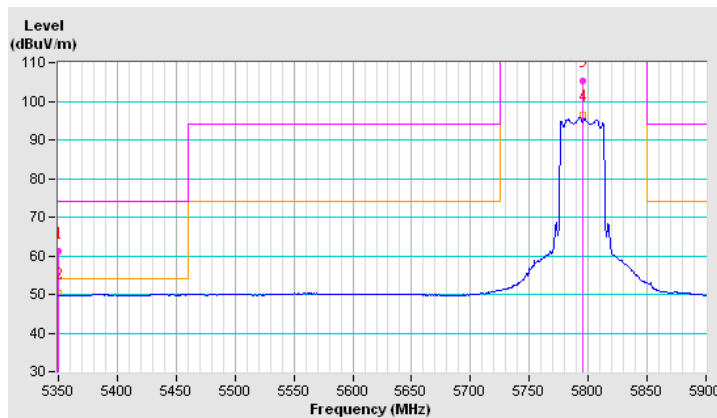
FINAL TEST DATE	May 14, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS8) CH 159 / Ant.1 + Ant.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	61.1 PK	74.0	-12.9	1.07 V	143	53.77	7.33
2	5350.00	50.4 AV	54.0	-3.6	1.07 V	143	43.07	7.33
3	*5795.00	105.4 PK			1.08 V	11	97.43	7.97
4	*5795.00	96.4 AV			1.08 V	11	88.43	7.97

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.

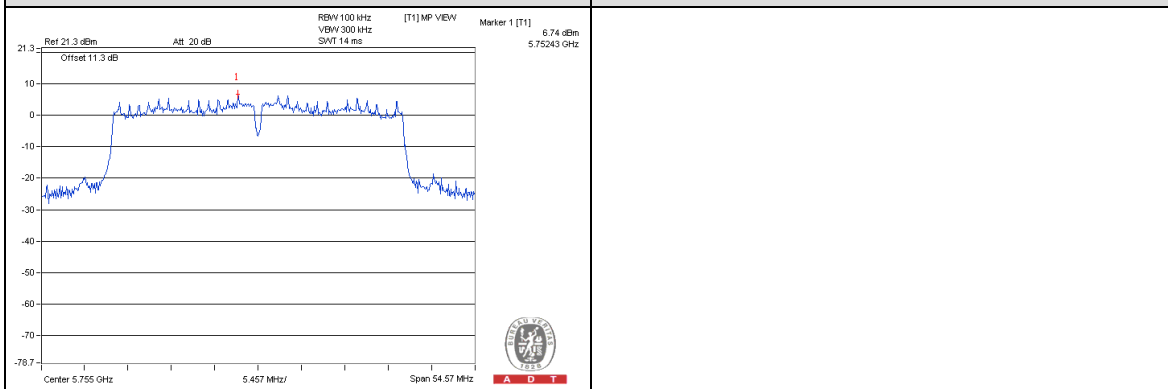




A D T

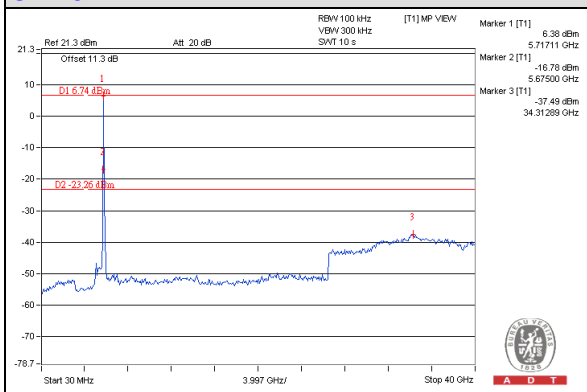
802.11n(40MHz, MCS8) / Ant.1 (Reference Level)

Maximum REF

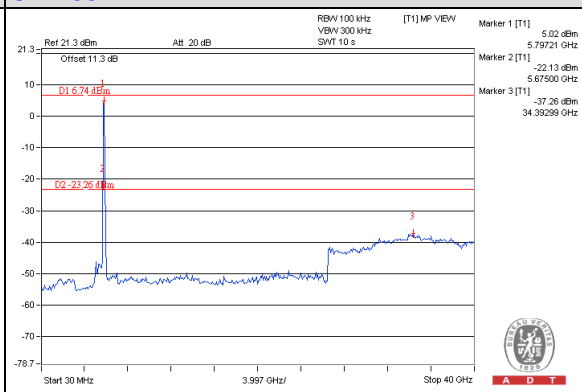


802.11n(40MHz, MCS8) / Ant.1 (down 30dBc)

CH 151



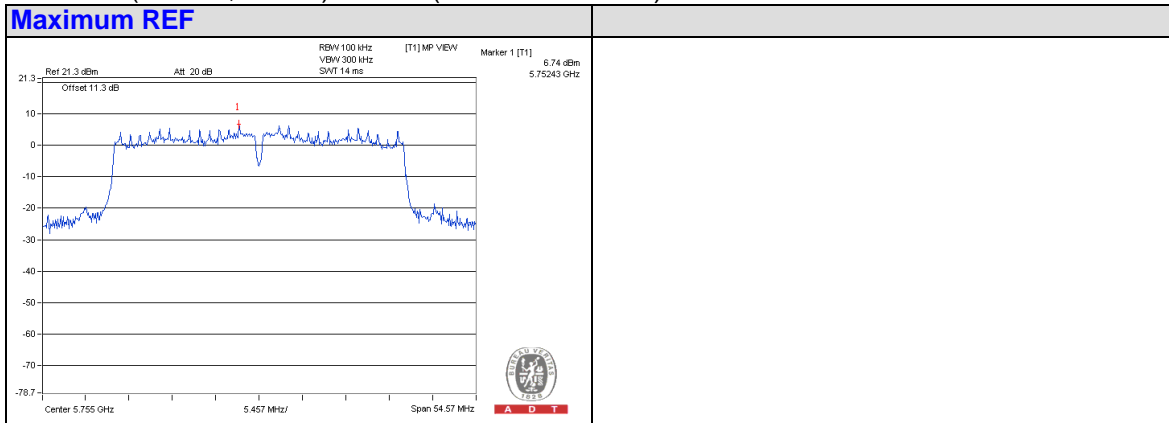
CH 159



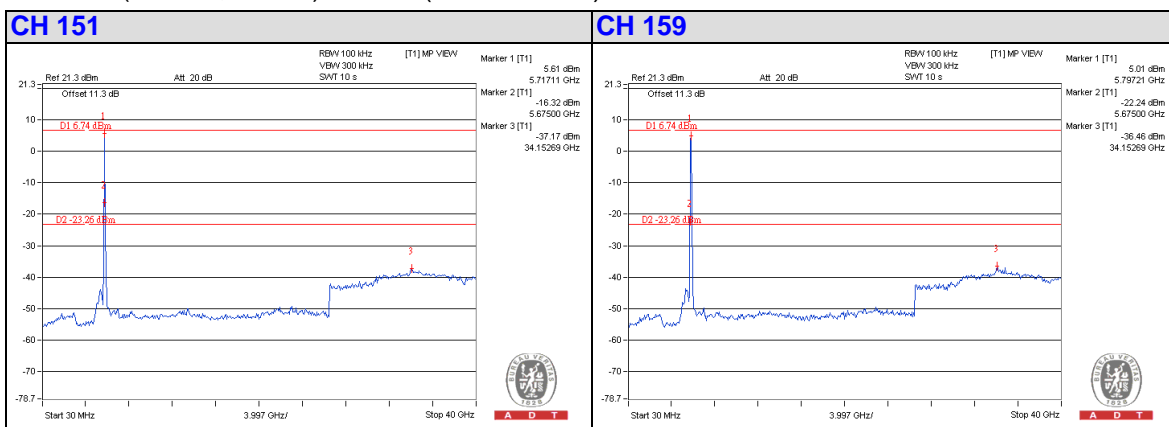


A D T

802.11n(40MHz, MCS8) / Ant.3 (Reference Level)



802.11n(40MHz, MCS8) / Ant.3 (down 30dBc)

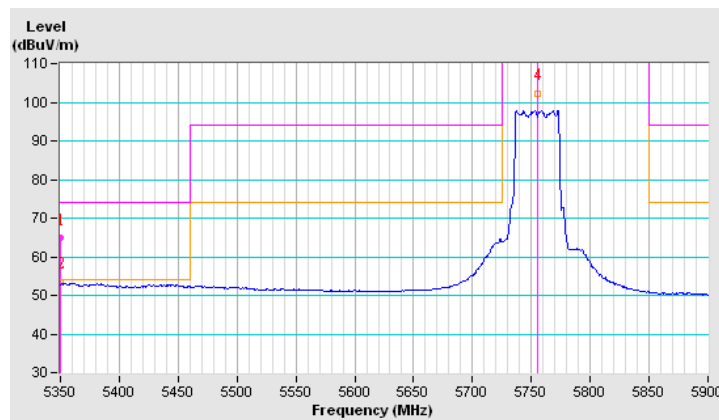


FINAL TEST DATE	May 14, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 151 / Ant.1 + Ant.2 + Ant. 3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	64.8 PK	74.0	-9.2	1.00 H	21	57.47	7.33
2	5350.00	53.4 AV	54.0	-0.6	1.00 H	21	46.07	7.33
3	*5755.00	112.6 PK			1.00 H	19	104.72	7.88
4	*5755.00	102.3 AV			1.00 H	19	94.42	7.88

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * ": Fundamental frequency.
6. The limit value is defined as per 15.247.





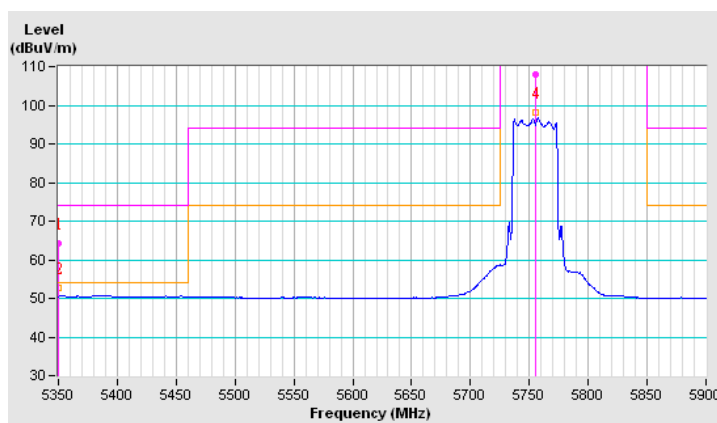
A D T

FINAL TEST DATE	May 14, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 151 / Ant.1 + Ant.2 + Ant. 3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	64.2 PK	74.0	-9.8	1.00 V	83	56.87	7.33
2	5350.00	52.7 AV	54.0	-1.3	1.00 V	83	45.37	7.33
3	*5755.00	107.8 PK			1.00 V	128	99.92	7.88
4	*5755.00	98.1 AV			1.00 V	128	90.22	7.88

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) – Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





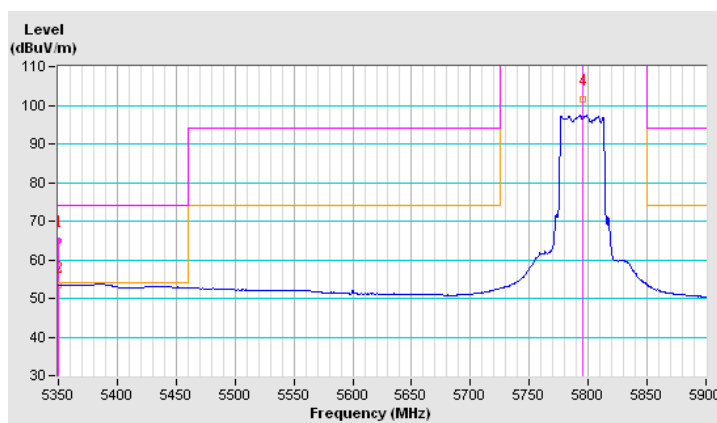
A D T

FINAL TEST DATE	May 14, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 159 / Ant.1 + Ant.2 + Ant. 3

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	64.9 PK	74.0	-9.1	1.00 H	19	57.57	7.33
2	5350.00	53.3 AV	54.0	-0.7	1.00 H	19	45.97	7.33
3	*5795.00	111.6 PK			1.01 H	19	103.63	7.97
4	*5795.00	101.6 AV			1.01 H	19	93.63	7.97

REMARKS:

1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.





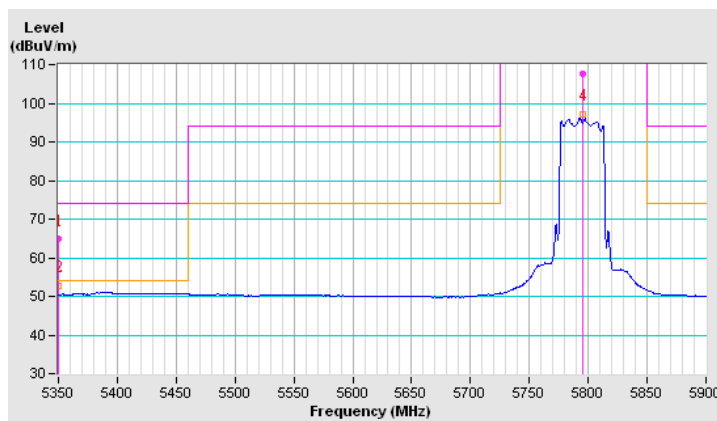
A D T

FINAL TEST DATE	May 14, 2013	TEST SITE NO.	966 Chamber No. H
TEMPERATURE	21 °C	HUMIDITY	72 %
TEST ENGINEER	Chilin Lee	CONFIGURATIONS	802.11n(40MHz, MCS16) CH 159 / Ant.1 + Ant.2 + Ant. 3

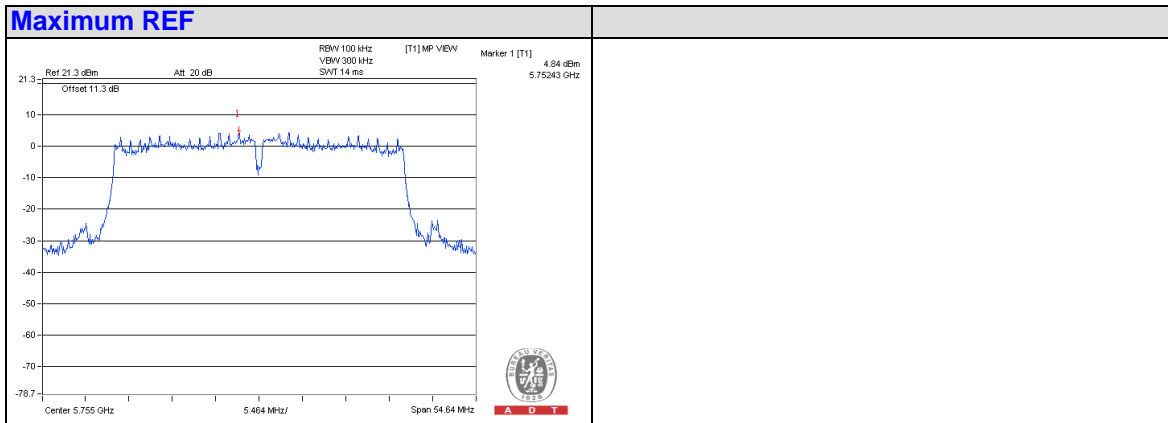
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5350.00	64.8 PK	74.0	-9.2	1.05 V	77	57.47	7.33
2	5350.00	52.7 AV	54.0	-1.3	1.05 V	77	45.37	7.33
3	*5795.00	107.5 PK			1.00 V	123	99.53	7.97
4	*5795.00	97.1 AV			1.00 V	123	89.13	7.97

REMARKS:

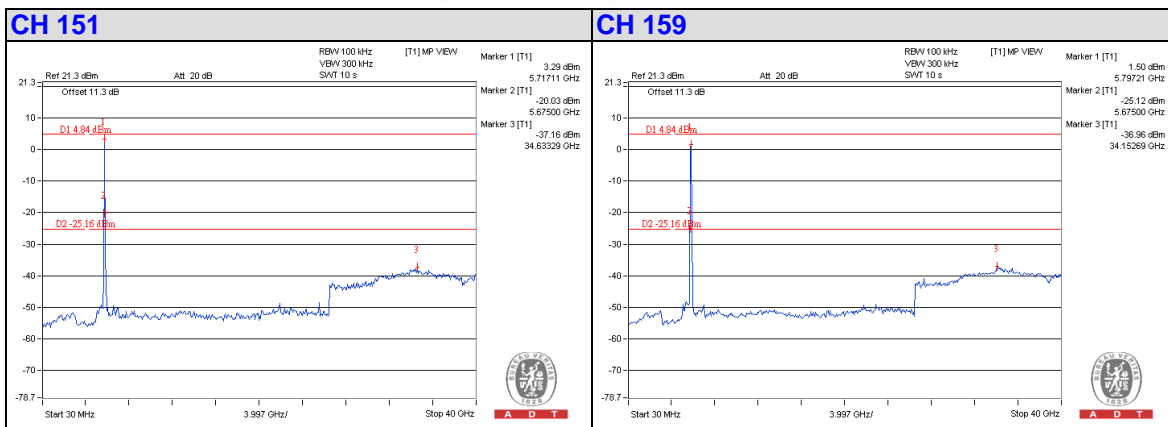
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
– Pre-Amplifier Factor (dB) if use
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value
5. " * " : Fundamental frequency.
6. The limit value is defined as per 15.247.



802.11n(40MHz, MCS16) / Ant.1 (Reference Level)



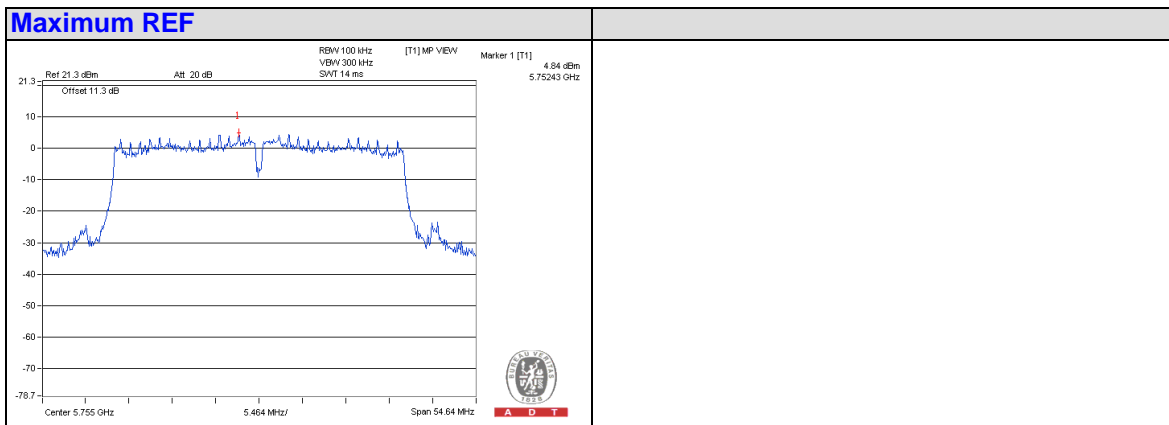
802.11n(40MHz, MCS16) / Ant.1 (down 30dBc)



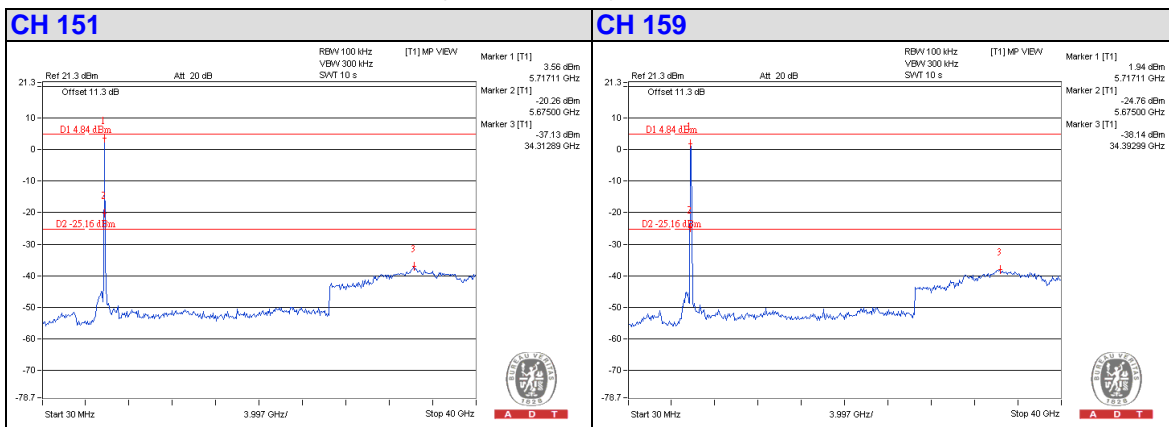


A D T

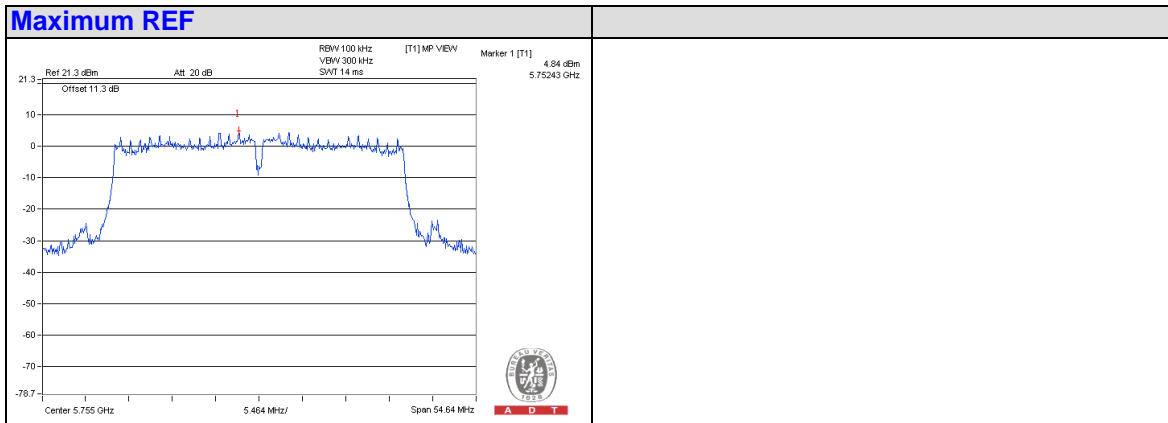
802.11n(40MHz, MCS16) / Ant.2 (Reference Level)



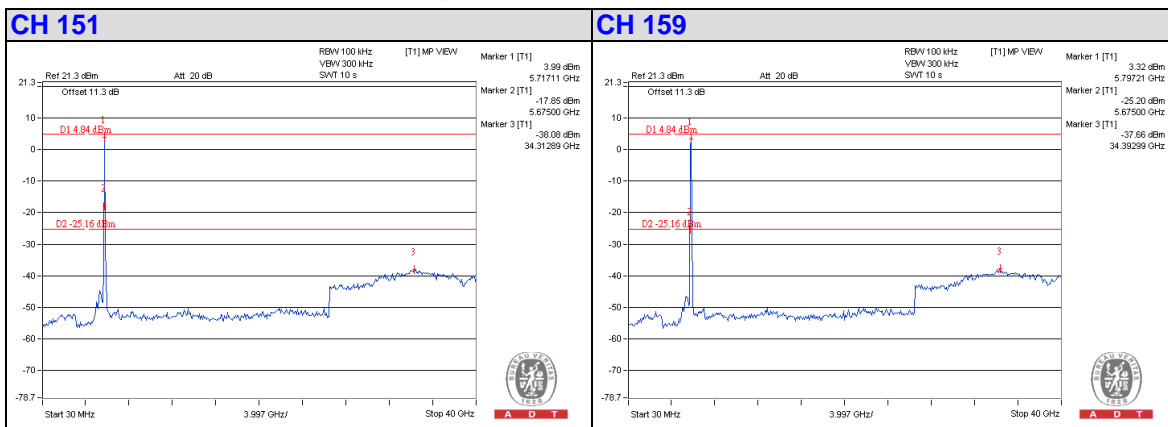
802.11n(40MHz, MCS16) / Ant.2 (down 30dBc)



802.11n(40MHz, MCS16) / Ant.3 (Reference Level)



802.11n(40MHz, MCS16) / Ant.3 (down 30dBc)



5.7 ANTENNA REQUIREMENTS

5.7.1 LIMITS

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

5.7.2 ANTENNA CONNECTOR CONSTRUCTION

Please refer to section 3.2 in this test report; antenna connector complied with the requirements.



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6. LIST OF MEASURING EQUIPMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver	ESCS 30	100375	Mar. 08, 2013	Mar. 07, 2014
Line-Impedance Stabilization Network (for EUT) SCHWARZBECK	NSLK8127	8127-522	Sep. 06, 2012	Sep. 05, 2013
Line-Impedance Stabilization Network (for Peripheral)	ENV216	100072	June 08, 2012	June 07, 2013
RF Cable (JYEBAO)	5DFB	COCCAB-003	Mar. 11, 2013	Mar. 10, 2014
50 ohms Terminator	50	EMC-3	Sep. 25, 2012	Sep. 24, 2013
Software ADT	BV ADT_Cond_V7.3.7.3	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. C.



A D T

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer Agilent	E4446A	MY48250253	Sep. 03, 2012	Sep. 02, 2013
MXE EMI Receiver Agilent	N9038A	MY51210105	Jan. 29,2013	Jan. 28,2014
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-03	Nov. 14, 2012	Nov. 13, 2013
Pre-Amplifier Agilent	8449B	3008A02578	June 26, 2012	June 25, 2013
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Nov. 14, 2012	Nov. 13, 2013
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-360	Mar. 19, 2013	Mar. 18, 2014
Horn_Antenna AISI	AIH.8018	0000320091110	Nov. 19, 2012	Nov. 18, 2013
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Oct. 12, 2012	Oct. 11, 2013
RF Cable	NA	RF104-201 RF104-203 RF104-204	Dec. 25, 2012	Dec. 24, 2013
RF Cable	NA	CHGCAB_001	Oct. 06, 2012	Oct. 05, 2013
Software	ADT_Radiated _V8.7.05	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3 The test was performed in 966 Chamber No. G.



A D T

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer Agilent	E4446A	MY48250253	Sep. 03, 2012	Sep. 02, 2013
MXE EMI Receiver Agilent	N9038A	MY50010156	Jan. 16, 2013	Jan. 15, 2014
Pre-Amplifier Mini-Circuits	ZFL-1000VH2 B	AMP-ZFL-04	Nov. 14, 2012	Nov. 13, 2013
Pre-Amplifier Agilent	8449B	3008A01923	Oct. 30, 2012	Oct. 29, 2013
Pre-Amplifier SPACEK LABS	SLKKa-48-6	9K16	Nov. 14, 2012	Nov. 13, 2013
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Mar. 25, 2013	Mar. 24, 2014
Horn_Antenna AISI	AIH.8018	0000220091110	Nov. 27, 2012	Nov. 26, 2013
Horn_Antenna SCHWARZBECK	BBHA 9170	9170-424	Oct. 12, 2012	Oct. 11, 2013
RF Cable	NA	RF104-205 RF104-207 RF104-202	Dec. 26, 2012	Dec. 25, 2013
RF Cable	NA	CHHCAB_001	Oct. 07, 2012	Oct. 06, 2013
Software	ADT_Radiated _V8.7.07	NA	NA	NA
Antenna Tower & Turn Table CT	NA	NA	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
3. The test was performed in 966 Chamber No. H.



A D T

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSP 40	100036	Jan. 21, 2013	Jan. 20, 2014
Spectrum Analyzer Agilent	E4446A	MY48250253	Sep. 03 , 2012	Sep. 02, 2013
Power meter Anritsu	ML2495A	0824006	May 20, 2013	May 19, 2014
Power sensor Anritsu	MA2411B	0738172	May 20, 2013	May 19, 2014
AC Power Source EXTECH Electronics	6205	1440452	NA	NA
Temperature & Humidity Chamber GIANTFORCE	GTH-150-40-SP -AR	MAA0812-008	Jan. 17, 2013	Jan. 16, 2014
DC Power Supply Topward	6603D	795558	NA	NA

- NOTE:**
1. The test was performed in Oven room B
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.



7. INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26052943

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab:

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.



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8. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No modifications were made to the EUT by the lab during the test.

--- END ---