

FCC PART 15 SUBPART C TEST REPORT					
Part 15.247					
Report Reference No	CTL1410112481-WF01				
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(position+printed name+signature) .:	Manager Tracy Qi				
Date of issue	Oct. 24, 2014				
Test Laboratory Name	Shenzhen CTL Testing Technology Co., Ltd.				
Address	Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055				
Applicant's name	General Procurement, Inc				
Address:	800 E Dyer Rd Santa Ana, CA 92705 United States				
Test specification:					
Standard	FCC Part 15.247: Operation within the bands 902–928 MHz, 2400– 2483.5 MHz, and 5725–5850 MHz.				
TRF Originator	Shenzhen CTL Testing Technology Co., Ltd.				
Master TRF	Dated 2011-01				
Shenzhen CTL Testing Technology					
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Test item description	Tablet PC				
FCC ID	S94VTA0800I				
Trade Mark	N/A				
Model/Type reference	VTA0800I, WI8001Q, WI800XX				
Modulation	802.11b DSSS, 802.11g/n: OFDM				
Work Frequency Range	802.11b/g/n(20MHz): 2412~2462MHz				
	802.11n(40MHz): 2422~2452				
Antenna Type	Internal				
Antenna Gain	0.5dBi				
Result:	Positive				

TEST REPORT

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Test Report No. :	CTL1410112481-WF01	Oct. 24, 2014
		Date of issue
Equipment under Test	: Tablet PC	
Model /Type	: VTA0800I	
Listed Modes	: WI8001Q, WI800XX	
Difference Description	: Only the color and model's r	name is different
Applicant	: General Procurement, Inc	
Address	: 800 E Dyer Rd Santa Ana, 0	CA 92705 United States
Manufacturer	: Jiangxi Wei Heng Digital C	Company Limited
Address	National High-tech Industria Province, China	I Development Zone, Xinyu City, Jiangxi
Test Result according standards on page 4:	g to the	Positive

The test report merely corresponds to the test sample. It is not permitted to copy extracts of these test result without the written permission of the test laboratory. rec

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1. TEST STANDARDS

The tests were performed according to following standards:

FCC Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

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ANSI C63.10-2009: American National Standard for Testing Unlicensed Wireless Devices.

ANSI C63.4-2009

KDB Publication No. 558074 D01 v03r02 Guidance on Measurements for Digital Transmission Systems



2. <u>SUMMARY</u>

2.1. General Remarks

Date of receipt of test sample	:	Oct. 11, 2014
Testing commenced on	:	Oct. 11, 2014
Testing concluded on	:	Oct. 24, 2014

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage	:	•	120V / 60 Hz	0	115V / 60Hz
		0	12 V DC	<u></u> O	24 V DC
		0	Other (specified	l in blank below)

DC 3.7V from battery

Description of the test mode

IEEE 802.11b/g/n(HT20): Thirteen channels are provided to the EUT, but only eleventh channels used for USA.

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		25
7	2442		20

IEEE 802.11n (HT40)

		TO A	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
3	2422	8	2447
4	2427	9	2452
5	2432		
6	2437		
7	2442		

2.3. Short description of the Equipment under Test (EUT)

Tablet PC, support 802.11b/g/n.

For more details, refer to the user's manual of the EUT.

Serial number: Prototype

2.4. EUT operation mode

Test Mode:

1. The EUT has been tested under normal operating condition.

2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed. Channel low (2412MHz), mid (2437MHz) and high (2462MHz) for 802.11b/g/n(HT20) and Channel low (2422MHz), mid (2437MHz) and high (2452MHz) for 802.11 n HT40 with highest data rate are chosen for full testing. 3. Test Mode:

Test Mode(TM)	Description	Remark
1	Transmitting	802.11 b
		2412MHz, 2437MHz, 2462MHz
2	Transmitting	802.11 g
		2412MHz, 2437MHz, 2462MHz
3	Transmitting 802.11 n HT20	
		2412MHz, 2437MHz, 2462MHz
4	Transmitting	802.11 n HT40
		2422MHz, 2437MHz, 2452MHz

2.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- $\bigcirc\,$ supplied by the manufacturer
- supplied by the lab

Notebook PC	Manufacturer : DELL	
FCC DOC approved	Model No. : PP18L	
○ AC adapter	Manufacturer : Shenzhen Perfect Gallant Tec	Co., Ltd
	Model No. : PGAE0500200U1UL	

2.6. NOTE

1. The EUT is a 7.85" Tablet PC, The functions of the EUT listed as below:

	Test Standards	Reference Report
WLAN 802.11b/g, 802.11n	FCC Part 15 Subpart C (Section15.247) FCC Per 47 CFR 2.1091(b)	CTL1409152285-WF

2. The frequency bands used in this EUT are listed as follows:

Frequency Band(MHz)	2400-2483.5	5150-5350	5470-5725	5725-5850
802.11b	\checkmark	—	—	—
802.11g	\checkmark	—	—	—
802.11n(20MHz)	\checkmark	—	—	—
802.11n(40MHz)	\checkmark	—	—	—

3. The EUT incorporates a SISO function, Physically,the EUT provides two completed transmitter and two completed receivers.

Modulation Mode	TX Function
802.11b	1TX
802.11g	1TX
802.11n (20MHz)	1TX
802.11n (40MHz)	1TX

2.7. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCCID: S94VTA0800I filing to comply with of the FCC part15.247 Rules.

2.8. Modifications

No modifications were implemented to meet testing criteria.



3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd. Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055

The sites are constructed in conformance with the requirements of ANSI C6230, ANSI C63.4 (2009) and CISPR Publication 22.

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 9618B

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

FCC-Registration No.: 970318

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 970318, December 19, 2013.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:

Humidity:

Atmospheric pressure:

950-1050mbar

15-35 ° C

30-60 %

3.4. Configuration of Tested System

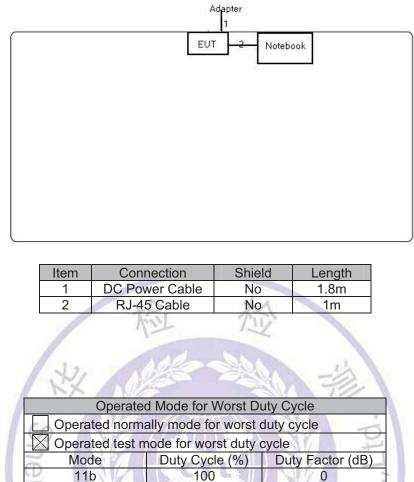
Fig. 2-1 Configuration of Tested System

AC	power line conduction	emission	tes	configurat	tion		-	. 6
					Pat	a series and	1	01

ook		

Item	Connection	Shield	Length
1	DC Power Cable	No	1.8m
2	RJ-45 Cable	No	1m

Radiation emission tes configuration



3.5. Duty Cycle

Operated Mode for Worst Duty Cycle							
Operated normally mode for worst duty cycle							
Operated test mode for worst duty cycle							
Mode	Duty Cycle (%)	Duty Factor (dB)					
11b	100	0					
- 11g	100	0 0					
11n HT20	100	0 0					
11n HT40	100	0					

3.6. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods - Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	1~12.75GHz	4.32dB	(1)
Radiated Emission	12.75GHz-25 GHz	4.68dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

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

3.7. Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Bilog Antenna	Sunol Sciences Corp.	JB1	A061713	2014/07/12	2015/07/11
EMI Test Receiver	R&S	ESCI	103710	2014/07/10	2015/07/09
Spectrum Analyzer	Agilent	E4407B	MY45108355	2014/07/06	2015/07/05
Controller	EM Electronics	Controller EM 1000	N/A	2014/07/06	2015/07/05
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2014/07/12	2015/07/11
Horn Antenna	SCHWARZBECK	BBHA9170	1562	2014/07/12	2015/07/11
Active Loop Antenna	SCHWARZBECK	FMZB1519	1519-037	2014/07/12	2015/07/11
LISN	R&S	ENV216	101316	2014/07/10	2015/07/09
LISN	SCHWARZBECK	NSLK8127	8127687	2014/07/10	2015/07/09
Microwave Preamplifier	HP	8349B	3155A00882	2014/07/10	2015/07/09
Amplifier	HP	8447D	3113A07663	2014/07/10	2015/07/09
Transient Limiter	Com-Power	LIT-153	532226	2014/07/10	2015/07/09
Radio Communication Tester	R&S	CMU200	3655A03522	2014/07/06	2015/07/05
Temperature/Humidity Meter	zhicheng	ZC1-2	22522	2014/07/10	2015/07/09
SIGNAL GENERATOR	Tel	8647A	3200A00852	2014/07/10	2015/07/09
Wideband Peak Power Meter	Anritsu	ML2495A	220.23.35	2014/07/06	2015/07/05
Climate Chamber	ESPEC	EL-10KA	A20120523	2014/07/06	2015/07/05
High-Pass Filter	K&L	9SH10- 2700/X12750 -O/O		2014/07/06	2015/07/05
High-Pass Filter	K&L	41H10- 1375/U12750 -O/O	Techno	2014/07/06	2015/07/05
RF Cable	HUBER+SUHNER	RG214	1	2014/07/09	2015/07/08

3.8. Summary of Test Result

FCC PART 15		
FCC Part 15.207	AC Power Conducted Emission	PASS
FCC Part 15.247(a)(2)	6dB Bandwidth	PASS
FCC Part 15.247(d)	Spurious RF Conducted Emission	PASS
FCC Part 15.247(b)	Maximum Peak Output Power	PASS
FCC Part 15.247(e)	Power Spectral Density	PASS
FCC Part 15.109/ 15.205/ 15.209	Radiated Emissions	PASS
FCC Part 15.247(d)	Band Edge Compliance of RF Emission	PASS
FCC Part 15.203/15.247 (b)	Antenna Requirement	PASS

Remark: The measurement uncertainty is not included in the test result.

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

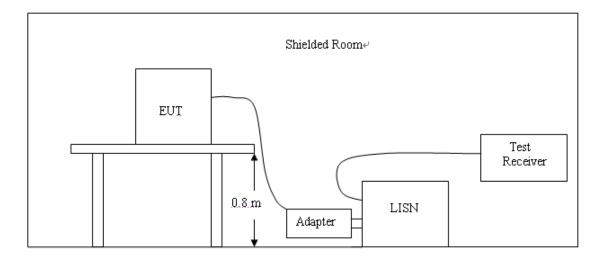
	ANL THE		
Test Items	Mode	Data Rate	Channel
AC Power Conducted Emission	Normal Link	11 Mbps	1
XX NO	11b/DSSS	11 Mbps	1/6/11
Maximum Peak Conducted Output Power Power Spectral Density 6dB Bandwidth Spurious RF conducted emission	11g/OFDM	54 Mbps	<mark>1/6/11</mark>
	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	150Mbps	3/6/9
Radiated Emission 30MHz~1GHz	11b/DSSS	11 Mbps	1/6/11
	11g/OFDM	54 Mbps	1/6/11
	11n(20MHz)/OFDM	65Mbps	1/6/11
3	11n(40MHz)/OFDM	150Mbps	3/6/9
C.	11b/DSSS	11 Mbps	1/6/11
127	11g/OFDM	54 Mbps	1/6/11
Radiated Emission 1GHz~10th Harmonic	11n(20MHz)/OFDM	65Mbps	1/6/11
	11n(40MHz)/OFDM	150Mbps	3/6/9
	11b/DSSS	11 Mbps	1/11
	11g/OFDM	54 Mbps	1/11
Band Edge Compliance of RF Emission	11n(20MHz)/OFDM	65Mbps	1/11
	11n(40MHz)/OFDM	150Mbps	3/9

Note1: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.

4. TEST CONDITIONS AND RESULTS

4.1. Conducted Emissions Test

TEST CONFIGURATION



TEST PROCEDURE

For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following:

		Edd I Media				
Frequency	Maximum RF Line Voltage (dBµv)					
Frequency (MHz)	CLAS	SS A	CLASS B			
(11112)	Q.P.	Ave.	Q.P.	Ave.		
0.15 - <mark>0.5</mark> 0	79	66	66-56*	56-46*		
0.50 - 5.00	73	60	56	4 6		
5.00 - 30.0	73	60	60	50		

* Decreasing linearly with the logarithm of the frequency

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

1. Please follow the guidelines in ANSI C63.4-2009.

2. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.

3. Connect EUT to the power mains through a line impedance stabilization network (LISN).

4. All the support units are connecting to the other LISN.

5. The LISN provides 50 ohm coupling impedance for the measuring instrument.

6. The FCC states that a 50 ohm, 50 microhenry LISN should be used.

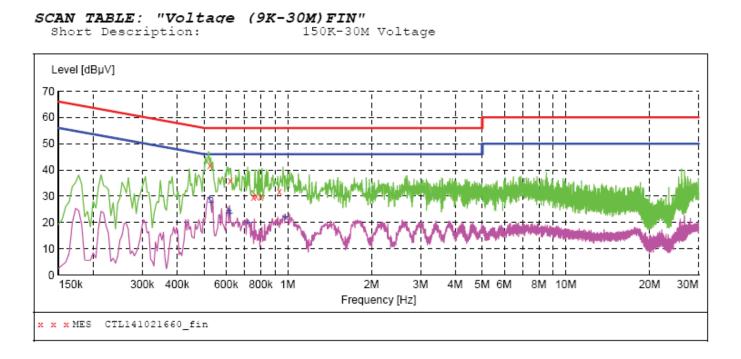
7. Both sides of AC line were checked for maximum conducted interference.

8. The frequency range from 150 kHz to 30 MHz was searched.

9. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

The RBW/VBW for 150KHz to 30MHz: 9KHz

TEST RESULTS



MEASUREMENT RESULT: "CTL141021660_fin"

10/21/2014 2:09PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.524000	41.80	10.2	56	14.2	QP	N	GND
0.620000	36.00	10.2	56	20.0	QP	N	GND
0.752000	29.80	10.2	56	26.2	QP	N	GND
0.770000	29.90	10.2	56	26.1	QP	N	GND
0.800000	29.70	10.2	56	26.3	QP	N	GND
0.932000	31.90	10.3	56	24.1	QP	N	GND

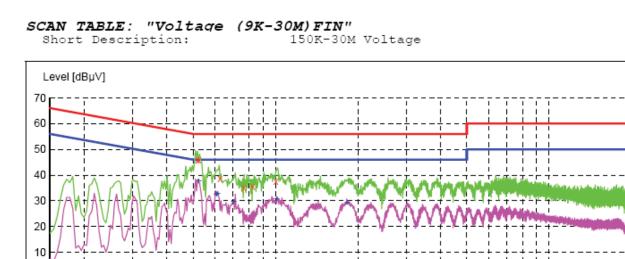
MEASUREMENT RESULT: "CTL141021660_fin2"

10/21/2014 2:09PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.524000	29.40	10.2	46	16.6	AV	N	GND
0.530000	27.50	10.2	46	18.5	AV	N	GND
0.614000	24.30	10.2	46	21.7	AV	N	GND
0.620000	23.30	10.2	46	22.7	AV	N	GND
0.716000	20.00	10.2	46	26.0	AV	Ν	GND
0.980000	22.00	10.3	46	24.0	AV	N	GND

20M

30M



2M

Frequency [Hz]

3M

4M 5M 6M

8M 10M

MEASUREMENT RESULT: "CTL141021661 fin"

600k 800k 1M

300k 400k

x x x MES CTL141021661_fin

10/21/2014 2:12PM Frequency Level Transd Limit Margin Detector Line PE MHz dBµV dB dBµV dB 0.518000 46.00 10.2 56 10.0 QP ь1 GND 10.2 QP 0.524000 45.80 10.2 56 ь1 GND 0.626000 38.70 10.2 56 17.3 QP L1 GND 0.764000 35.20 10.2 56 20.8 QP ь1 GND 10.2 0.824000 35.70 56 20.3 QP L1 GND 1.004000 10.3 37.60 56 18.4 QP L1 GND

MEASUREMENT RESULT: "CTL141021661 fin2"

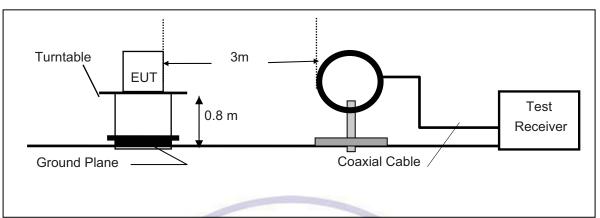
10/21/2014 2: Frequency MHz		Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.524000 0.608000 0.614000	37.50 32.50 32.70	10.2 10.2 10.2	46 46 46	13.3	AV AV	L1 L1 L1	GND GND GND
0.704000 1.010000 1.832000	29.70 30.60 29.50	10.2 10.3 10.3	46 46 46	16.3 15.4 16.5	AV	L1 L1 L1	GND GND GND

0 _____ 150k

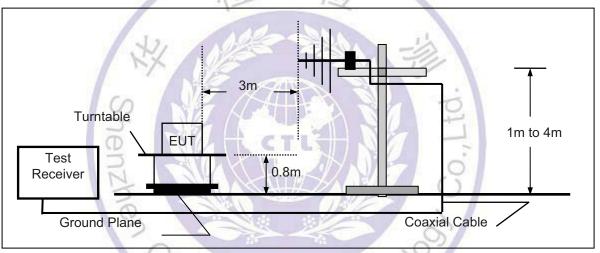
4.2. Radiated Emission Test

TEST CONFIGURATION

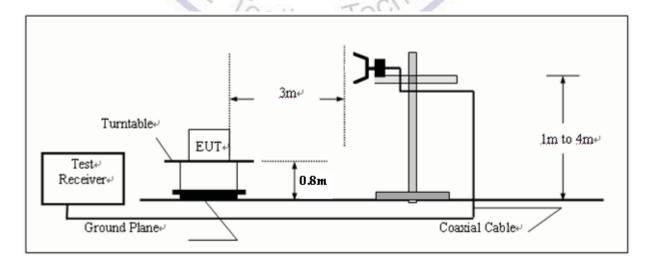
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



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



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz



FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

TEST PROCEDURE

- 1. The testing follows FCC KDB Publication No. 558074 D01 v03r02 (Measurement Guidelines of DTS).
- 2. The EUT was placed on a turn table which is 0.8m above ground plane.
- 3. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- 4. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 5. Span = wide enough to fully capture the emission being measured; RBW = 1 MHz for f >1 GHz, 100 kHz for f < 1 GHz; VBW ≧ RBW; Sweep = auto; Detector function = peak; Trace = max hold.
- 6. Repeat above procedures until all frequency measurements have been completed.

Note:

When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna has the narrow beamwidth) in order to keeping the antenna in the "cone of radiation" of EUT. The 3dB beamwidth is 60 degrees for H-plane and 90 degrees for E-plane.

LIMIT

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
30-88	3	40.0	100
88-216	/ stinc	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

TEST RESULTS

9KHz-30MHz:

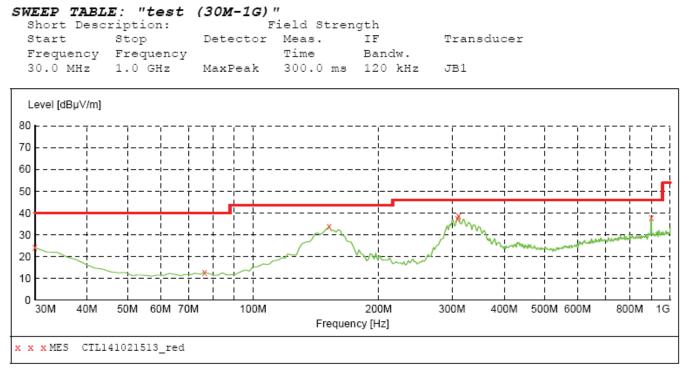
Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Limit Line (dBuV)	Remark
-	-	-	-	See Note

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

Dstance extrapolation factor= 40 log (specific distance/ test distance) (dB); Limit line= specific limits (dBuV) + distance extrapolation factor.

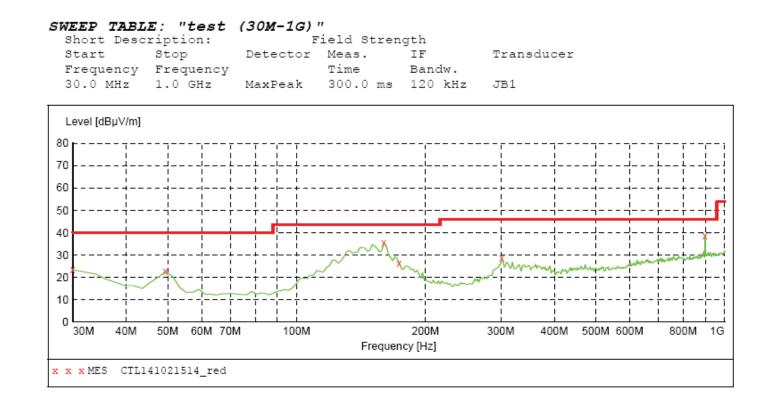
Below 1GHz: QP detector is used

The radiated measurement are performed the each test mode (b/g/n) and channel (low/mid/high), the datum recorded below (802.11b mode, the middle channel) is the worst case for all the test mode and channel.



MEASUREMENT RESULT: "CTL141021513_red"

10/21/2014 11	L:56AM							
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	24.10	21.1	40.0	15.9		0.0	0.00	HORIZONTAL
76.560000	12.70	8.6	40.0	27.3		0.0	0.00	HORIZONTAL
152.220000	33.70	14.1	43.5	9.8		0.0	0.00	HORIZONTAL
309.360000	37.60	15.7	46.0	8.4		0.0	0.00	HORIZONTAL
311.300000	38.80	15.7	46.0	7.2		0.0	0.00	HORIZONTAL
901.060000	37.80	26.1	46.0	8.2		0.0	0.00	HORIZONTAL



MEASUREMENT RESULT: "CTL141021514_red"

10/21/2014 11 Frequency MHz			Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	23.30	21.1	40.0	16.7		0.0	0.00	VERTICAL
49.400000	22.60	8.4	40.0	17.4		0.0	0.00	VERTICAL
159.980000	35.60	13.9	43.5	7.9		0.0	0.00	VERTICAL
173.560000	26.40	13.3	43.5	17.1		0.0	0.00	VERTICAL
301.600000	28.50	15.4	46.0	17.5		0.0	0.00	VERTICAL
899.120000	38.80	26.1	46.0	7.2		0.0	0.00	VERTICAL



Above 1GHz:

0UZ.								
СН	Antenna	Frequency (MHz)	Reading Level	Factor (dB)	Measure Level	Limit (dBuV/m)	Margin (dB)	Detector
			(dBuV/m)	(ub)	(dBuV/m)	(ubuv/iii)	(UD)	
	V	2412.0	73.5	30.8	104.3	Fundamental	/	PK
	V	307.4	16.6	14.8	31.4	46	10.0	QP
	V	500.0	13.1	19.7	32.8	46	15.3	QP
1	V	3200.0	44.2	-0.6	43.6	54(note3)	5.8	PK
	V	4825.0	46.2	2.6	48.8	54(note3)	1.9	PK
	V	7239.0	55.8	8.1	63.9	74	10.6	PK
	V	7236.0	36.8	8.9	45.7	54	5.8	AV
	Н	24000.0	59.3	-8.9	50.4	54(note3)	2.5	PK
	V	2437.0	72.4	31.2	103.6	Fundamental	/	PK
	V	3200.0	49.2	-0.6	48.6	54(note3)	6.1	PK
6	V	4876.0	44.4	2.8	47.2	54(note3)	5.7	PK
	V	7315.5	57.4	8.8	66.2	74	9.8	PK
	V	7311.0	35.7	8.1	43.8	54	4.4	AV
	Н	24000.0	59.1	-8.9	50.2	54(note3)	2.3	PK
	V	2462.0	72.5	30.9	103.4	Fundamental	1	PK
	V	326.3	14.8	14.9	29.7	46	20.8	QP
	Н	582.0	14.6	21.2	35.8	46	8.2	QP
11	V	3200.0	46.8	-0.6	46.2	54(note3)	8.9	PK
	V	4927.0	45.7	3.0	48.7	54(note3)	5.1	PK
	V	7383.5	56.9	8.9	65.8	74	8.7 🛨	PK
	V	7386.0	35.2	8.9	44.1	54	4.3	AV
	Н	24000.0	59.2	-8.9	50.3	54(note3)	2.7	PK

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Note: 1. Measure Level = Reading Level + Factor.

2. The test results which are attenuated more than 20 dB below the permissible value limit (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed. esting Technol

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CH		Frequency	Reading	Factor	Measure	Limit	Margin	Detector
		(MHz)	Level	(dB)	Level	(dBuV/m)	(dB)	
		. ,	(dBuV/m)	. ,	(dBuV/m)	· · · ·	. ,	
	V	2411.9	71.2	31.9	103.1	Fundamental	/	PK
	Н	245.8	20.2	15.7	35.9	46	19.4	QP
	Н	541.4	11.3	21.3	32.6	46	8.5	QP
1	V	3200.0	46.3	-0.6	45.7	54(note3)	13.0	PK
	V	4824.0	45.5	2.6	48.1	54(note3)	11.6	PK
	V	7236.0	54.9	8.9	63.8	74	10.3	PK
	V	7239.0	37.8	8.9	46.7	54	7.9	AV
	Н	24000.0	59.8	-8.9	50.9	54(note3)	2.1	PK
	V	2437.0	71.7	31.2	102.9	Fundamental	/	PK
	V	359.6	16.9	14.8	31.7	46	21.5	QP
	V	638.9	19.1	21.2	40.3	46	7.8	QP
6	V	3200.0	46.8	-0.6	46.2	54(note3)	10.7	PK
0	V	4876.0	45.7	2.8	48.5	54(note3)	4.9	PK
	V	7298.5	55.9	8.8	64.7	74	9.8	PK
	Н	7298.9	37.7	8.8	46.5	54	6.7	AV
	Н	24000.0	59.6	-8.9	50.7	54(note3)	2.3	PK
	V	2462.3	72.7	30.9	103.6	Fundamental	1	PK
	Н	698.7	10.4	21.2	31.6	46	15.2	QP
	V	282.6	14.2	14.7	28.9	46	20.6	QP
11	V	3200.0	47.7	-0.6	47.1	54(note3)	6.8	N PK
	V	4927.0	44.8	3.0	47.8	54(note3)	4.9	PK
	V	7386.0	57.2	8.9	66.1	74	10.6	PK
	V	7392.0	36.3	8.9	45.2	54	7.2	AV
	Н	24000.0	59.4	-8.9	50.5	54(note3)	2.7	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test results which are attenuated more than 20 dB below the permissible value limit (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

802.11n	(20MHz)
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	Antenna	Frequency	Reading	Factor	Measure	Limit	Margin	Detector
0.1	/	(MHz)	Level	(dB)	Level	(dBuV/m)	(dB)	20100101
		()	(dBuV/m)	(0.2)	(dBuV/m)	(()	
	V	2412.1	72.5	30.7	103.2	Fundamental	/	PK
	Н	542.9	17.7	21.2	38.9	46	17.6	QP
	Н	362.8	15.0	15.1	30.1	46	10.4	QP
1	V	3200.0	42.6	-0.6	42.0	54(note3)	4.7	PK
	V	4824.0	44.9	2.6	47.5	54(note3)	4.3	PK
	V	7236.0	55.4	8.9	64.3	74	12.2	PK
	V	7239.0	38.2	8.9	47.1	54	5.7	AV
	Н	24000.0	59.4	-8.9	50.5	54(note3)	2.5	PK
	V	2437.0	71.7	31.2	102.9	Fundamental	/	PK
	Н	597.6	15.2	21.2	36.4	46	20.4	QP
	Н	320.3	14.8	16.0	30.8	46	8.8	QP
	V	3200.0	48.5	-0.6	47.9	54(note3)	5.9	PK
6	V	4876.0	43.4	2.8	46.2	54(note3)	4.4	PK
	V	7307.0	55.3	8.8	64.1	74	11.3	PK
	V	7310.6	34.4	8.8	43.2	54	5.6	AV
	Н	24000.0	59.0	-8.9	50.1	54(note3)	2.9	PK
	V	2462.0	72.1	30.9	103.0	Fundamental	1	PK
	Н	364.3	18.7	14.7	33.4	46	19.7	QP
	Н	541.9	16.1	21.2	37.3	46	12.5	QP
	V	3200.0	50.0	-0.6	49.4	54(note3)	5.3	N PK
11	V	4924.0	45.1	3.0	48.1	54(note3)	4.5	PK
	V	7375.0	57.5	9.0	66.5	74	9.6	PK
	V	7378.3	39.7	9.0	48.7	54	4.4	AV
	Н	24000.0	59.2	-8.9	50.3	54(note3)	2.7	PK

Note: 1. Measure Level = Reading Level + Factor.

2. The test results which are attenuated more than 20 dB below the permissible value limit (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

802.11n	(40MHz)
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	Antonno		Deading	Fastar	Magguro	Limit	Morgin	Detector
СП	Antenna	Frequency	Reading	Factor			Margin	Detector
		(MHz)		(dB)		(dBuV/m)	(dB)	
			(dBuV/m)		(dBuV/m)		,	
	V	2423.6	71.3	31.8	103.1	Fundamental	/	PK
	Н	341.9	20.5	16.0	36.5	46	14.4	QP
	Н	564.0	7.5	21.2	28.7	46	20.6	QP
3	V	3200.0	47.0	-0.6	46.4	54(note3)	10.9	PK
5	V	4844.0	45.5	2.6	48.1	54(note3)	6.8	PK
	V	7290.0	58.8	8.8	67.6	74	12.2	PK
	Н	7290.7	40.7	8.8	49.5	54	6.7	AV
	Н	24000.0	59.1	-8.9	50.2	54(note3)	2.8	PK
	V	2437.0	71.4	31.2	102.6	Fundamental	/	PK
	Н	291.9	14.0	14.8	28.8	46	16.5	QP
	Н	553.3	13.5	21.2	34.7	46	13.8	QP
6	V	3200.0	48.7	-0.6	48.1	54(note3)	10.4	PK
0	V	4874.0	43.4	2.8	46.2	54(note3)	3.1	PK
	V	7349.2	57.9	9.0	66.9	74	11.7	PK
	V	7349.2	39.6	9.0	48.6	54	7.3	AV
	Н	24000.0	59. <mark>3</mark>	-8.9	50.4	54(note3)	2.6	PK
	V	2453.6	71.8	30.9	102.7	Fundamental	1	PK
	Н	586.3	8.2	21.2	29.4	46	17.9	QP
	Н	294.3	17.8	14.8	32.6	46	15.3	QP
9	V	3200.0	43.4	-0.6	42.8	54(note3)	12.4	PK
9	V	4904.0	43.2	2.9	46.1	54(note3)	8.7	PK
	V	7349.4	55.3	9.0	64.3	74	12.8	PK
	V	7349.5	39.1	9.0	48.1	54	5.3	AV
	Н	24000.0	59.4	-8.9	50.5	54(note3)	2.5	PK
Mater		Iro Lovol - P		and the second sec				

Note: 1. Measure Level = Reading Level + Factor.

2. The test results which are attenuated more than 20 dB below the permissible value limit (the test frequency range: 9kHz~30MHz, 18GHz~25GHz), therefore no data appear in the report.

3. This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

4.3. 6dB Bandwidth Measurement

TEST CONFIGURATION



TEST PROCEDURE

1. The testing follows FCC KDB Publication No. 558074 D01 v03r02 (Measurement Guidelines of DTS).

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2. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.

3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.

4. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

<u>LIMIT</u>

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

TEST RESULTS

: Tablet PC	
: 6dB Occupied Bandwidth	
: Mode 1: Transmit by 802.11b	
	: 6dB Occupied Bandwidth

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Channel No.	Frequency	Occupied Bandwidth	Limit	Result
	(MHz)	(kHz)	(kHz)	
01	2412	9832	500	Pass
06	2437	9372	500	Pass
11	2462	9325	500	Pass



Channel 01 (2412MHz)

	- Meas Setup
Ch Freq 2.412 GHz Trig Free Occupied Bandwidth	Avg Number 10 On <u>Off</u>
Ref 20 dBm Atten 30 dB	Avg Mode Exp Repeat
#Peak Log 10	Max Hold <u>On Off</u>
	Occ BVV % Pwr 99.00 %
Center 2.412 GHz Span 50 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 5.18 ms (401 pts)	OBW Spar 50.000000 MHz
Occupied Bandwidth Occ BW % Pwr 99.00 % 14.9609 MHz x dB -6.00 dB	x dB -6.00 dB
Transmit Freq Error -28.559 kHz x dB Bandwidth 9.832 MHz	Optimize Ref Level
	-
Channel 06 (2437MHz)	. Trace/View
	Trace/View Trace 1 2 3
Agilent R T Ch Freq 2.437 GHz Trig Free	Trace
Agilent R T Ch Freq 2.437 GHz Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10	Trace 1 <u>2</u> <u>3</u>
Agilent R T Ch Freq 2.437 GHz Occupied Bandwidth	Trace 1 2 <u>3</u> Clear Write
Agilent R T Ch Freq 2.437 GHz Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/	Trace 1 <u>2</u> <u>3</u> Clear Write Max Hold
Agilent R T Ch Freq 2.437 GHz Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Image: Center 2.437 GHz Span 50 MHz	Trace 1 2 3 Clear Write Max Hold Min Hold

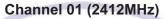
Channel 11 (2462MHz)

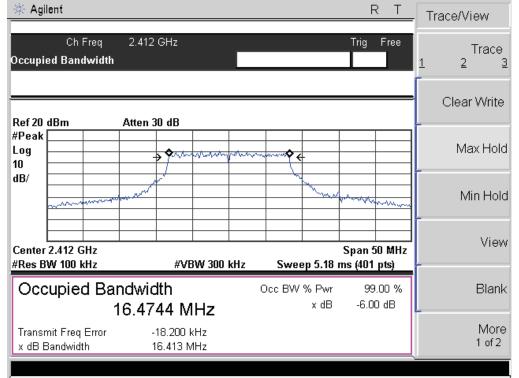
🔆 Agile	nt				RT	Freq/Channel
Occupie	Ch Freq d Bandwidth	2.462 GHz			Trig Free	Center Freq 2.46200000 GHz
Ref 20 d	Bm	Atten 30 dB				Start Freq 2.43700000 GHz
#Peak Log 10		A A A A A A A A A A A A A A A A A A A	www	Ante Carl		Stop Freq 2.48700000 GHz
dB/ ⊑				hun	Mahadana	CF Step 5.0000000 MHz <u>Auto Man</u>
	2.462 GHz V 100 kHz	#VBW 3	00 kHz	Sweep 5.18 n	Span 50 MHz ns (401 pts)	Freq Offset 0.00000000 Hz
Оссі	upied Bar 1	ndwidth 4.7992 MHz	!	Occ BW % Pwr x dB	99.00 % -6.00 dB	Signal Track ^{On <u>Off</u>}
	it Freq Error andwidth	55.225 kHz 9.325 MHz				



Product	:	Tablet PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 2: Transmit by 802.11g

Channel No.	Frequency	Occupied Bandwidth	Limit	Result
	(MHz)	(kHz)	(kHz)	
01	2412	16413	500	Pass
06	2437	16573	500	Pass
11	2462	16604	500	Pass



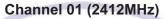


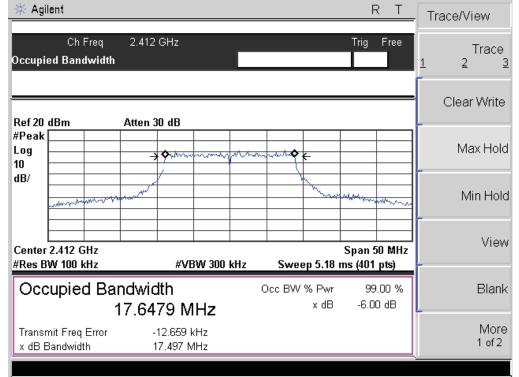
Channel 06 (2437MHz)

🔆 Agilent		R	T Freq/Channel
Ch F Occupied Band		Trig	Free Center Freq 2.43700000 GHz
Ref 20 dBm	Atten 30 dB		Start Freq 2.41200000 GHz
#Peak Log 10		an and the second secon	Stop Freq 2.46200000 GHz
dB/	and a second and a s		CF Step 5.00000000 MHz <u>Auto Man</u>
Center 2.437 G #Res BW 100 k		Span 50 kHz Sweep 5.18 ms (401	
Occupied	l Bandwidth 16.4848 MHz	Occ BW % Pwr 99. x dB -6.00	DD % dB Signal Track On <u>Off</u>
Transmit Freq B x dB Bandwidth			
	Chann	el 11 (2462MHz)	澎
来 Agilent		R	T Trace/View
Ch F Occupied Band		Trig	Free Trace
Ref 20 dBm	Atten 30 dB		Clear Write
#Peak Log 10			Max Hold
dB/	and the second s		Min Hold
Center 2.462 G #Res BW 100 k	Hz	Span 5) MHz View
#Res BW 100 k	Hz	Span 50 kHz Sweep 5.18 ms (401	MHz View Dots) D0 % Blank

Product	:	Tablet PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)

Channel No.	Frequency	Occupied Bandwidth	Limit	Result
	(MHz)	(kHz)	(kHz)	
01	2412	17497	500	Pass
06	2437	17778	500	Pass
11	2462	17748	500	Pass



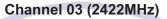


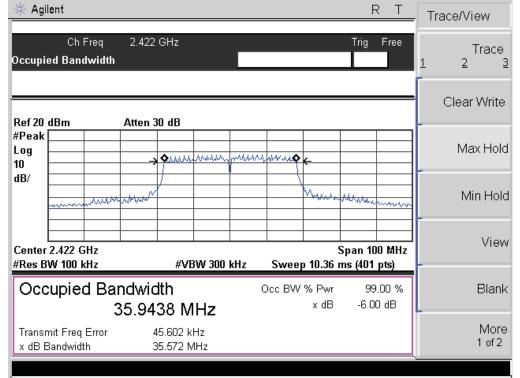
Channel 06 (2437MHz)

Ref 20 dBm Atten 30 dB #Peak	View Trace 2 3 ar Write ∕Iax Holo
Occupied Bandwidth 1 Ref 20 dBm Atten 30 dB #Peak	2 3 ar Write
Occupied Bandwidth 1 Ref 20 dBm Atten 30 dB #Peak	2 3 ar Write
Ref 20 dBm Atten 30 dB #Peak	ar Write
Ref 20 dBm Atten 30 dB #Peak Log 10 dB/	
Ref 20 dBm Atten 30 dB #Peak 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
XPeak Image: Constraint of the second seco	Лах Hold
	Max Hold
	Min Hold
Center 2.437 GHz Span 50 MHz	View
Res BW 100 kHz #VBW 300 kHz Sweep 5.18 ms (401 pts)	
Occupied Bandwidth Occ BW % Pwr 99.00 %	Blank
17.6779 MHz × dB -6.00 dB	
Transmit Freg Error -17.383 kHz	More
x dB Bandwidth 17.778 MHz	1 of 2
Channel 11 (2462MHz)	
	nannel
Agilent R T Freq/Ct	
Channel 11 (2462MHz) Agilent R T Freq/Ch Ch Freq 2.462 GHz Trig Free Center	er Freq
Channel 11 (2462MHz) Agilent R T Freq/Ch Ch Freq 2.462 GHz Trig Free Center	er Freq
Channel 11 (2462MHz) Agilent R T Freq/Ch Ch Freq 2.462 GHz Trig Free Cente 2.462000 Sta	er Freq 300 GHz irt Freq
Channel 11 (2462MHz) Agilent R T Freq/Ch Ch Freq 2.462 GHz Trig Free Cente 2.462000 Sta 2.437000	er Freq 300 GHz irt Freq
Channel 11 (2462MHz) R T Freq/Ct Ch Freq 2.462 GHz Trig Free Ccupied Bandwidth	er Freq DOD GHz Int Freq DOD GHz
Channel 11 (2462MHz) R T Freq/Cr Ch Freq 2.462 GHz Trig Free Ccupied Bandwidth 2.462 OH Cente 2.462000 tef 20 dBm Atten 30 dB Sta 2.437000 Peak	er Freq 200 GHz art Freq 200 GHz op Freq
Channel 11 (2462MHz) R T Freq/Ch Ch Freq 2.462 GHz Trig Free ccupied Bandwidth Cente 2.462000 tef 20 dBm Atten 30 dB Sta Peak Atten 30 dB Sta 0 Atten 40 dB Atten 40 dB	er Freq 200 GHz art Freq 200 GHz 200 GHz
Channel 11 (2462MHz) Agilent R T Freq/CH Ch Freq 2.462 GHz Trig Free ccupied Bandwidth Cente 2.462000 tef 20 dBm Atten 30 dB Sta 2.437000 Peak Image: Cente Sta 2.437000 0 Image: Cente Sta 2.437000 b Image: Cente Sta 2.437000 Sta Image: Cente Sta 2.437000 b Image: Cente Sta 2.437000 b Image: Cente Sta 2.437000 Sta Image: Cente Sta 2.437000 B/ Image: Cente Sta Sta Image: Cente Image: Cente Sta Sta Sta Image: Cente Sta Sta Image: Cente Image: Cente Sta Sta Image: Cente Image: Cente Sta Sta Image: Cente Image: Cente Image: Cente Sta Image: Cente Image: Cente Image: Cente Image: Cente	er Freq 100 GHz 100 GHz 100 GHz 100 GHz 100 GHz 100 MHz
Channel 11 (2462MHz) R T Freq/Cr Ch Freq 2.462 GHz Trig Free ccupied Bandwidth Cente 2.462000 Ref 20 dBm Atten 30 dB Sta 2.437000 Peak Image: Cente Sta 2.437000 0 Image: Cente Sta 2.437000 10 Image: Cente Sta 2.437000 Sta 2.437000 Sta 2.437000 0 Image: Cente Image: Cente Sta 0 Image: Cente Image: Cente Sta 0 Image: Cente Image: Cente Sta 0 Image: Cente	er Freq 100 GHz 100 GHz 100 GHz 100 GHz CF Step
Channel 11 (2462MHz) R T Freq/CH Ch Freq 2.462 GHz Trig Free Ccupied Bandwidth Center 2.462000 Ref 20 dBm Atten 30 dB Sta 2.437000 Peak Image: Center Sta 2.437000 B/ Image: Center Sta 2.437000 B/ Image: Center Sta 2.437000 Ch Freq Image: Center Sta 2.437000 Ch Freq Image: Center Sta 2.437000 Ch Freq Image: Center Image: Center Sta Contract Center Image: Center Sta 2.437000 Image: Center Image: Center Image: Center Sta Imag	er Freq 100 GHz 100 GHz 100 GHz 100 GHz 100 GHz 100 MHz 100 MHz
Agilent R T Freq/CH Ch Freq 2.462 GHz Cupied Bandwidth tef 20 dBm Atten 30 dB Peak 0g 0B/ Atten 30 dB Center 2.462 GHz Span 50 MHz	er Freq 100 GHz 100 GHz 100 GHz 100 GHz 100 GHz 100 MHz 100 MHz
Agilent R T Freq/CH Ch Freq 2.462 GHz Trig Free Ccupied Bandwidth Center 2.462 000 Ref 20 dBm Atten 30 dB Peak Atten 30 dB IB/ Atten 40 dB IB/ Image: Atten 40 dB Image: Atten 40 dB Image: Atten 40 dB	er Freq 100 GHz 100 GHz 100 GHz 100 GHz CF Step 100 MHz <u>Ma</u> 1 Offset 100 Hz
Channel 11 (2462MHz) Agilent R T Freq/Cf Ch Freq 2.462 GHz Trig Free Coupied Bandwidth Atten 30 dB Sta Sta Verage Atten 30 dB Sta Sta Center 2.462 GHz Span 50 MHz Span 50 MHz Freq Center 2.462 GHz Span 50 MHz Sweep 5.18 ms (401 pts) Signa Occupied Bandwidth Occ BW % Pwr 99.00 % Signa	er Freq 100 GHz 100 GHz 100 GHz 100 GHz 100 GHz 100 MHz 100 MHz
Agilent R T Freq/Cf Ch Freq 2.462 GHz Trig Free Ccupied Bandwidth Center 30 dB Sta Sta Ref 20 dBm Atten 30 dB Sta Sta Peak Atten 30 dB Sta Sta 0 Atten 30 dB Sta Sta 0 Atten 30 dB Sta Sta 0 Atten 30 dB Freq Sta 0 Atten 30 dB Sta Sta 0 Atten 30 dB Freq Sta 0 Freq Sta Sta 0 Freq Sta Sta 1 Freq Sta Sta 2 Freq Sta Sta 2 Freq Sta Sta 1 Freq Sta Sta 2 Freq Sta	er Freq 200 GHz 200 GHz 200 GHz 200 GHz CF Step 200 MHz <u>Ma</u> 200 Hz 200 Hz 200 Hz
Agilent R T Freq/CH Ch Freq 2.462 GHz Ccupied Bandwidth Ref 20 dBm Atten 30 dB Peak .og 0 B/ .eg 0 0 B/ .eg 0	er Freq 200 GHz 200 GHz 200 GHz 200 GHz CF Step 200 MHz <u>Ma</u> 200 Hz 200 Hz 200 Hz

Product	:	Tablet PC
Test Item	:	6dB Occupied Bandwidth
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency	Occupied Bandwidth	Limit	Result
	(MHz)	(kHz)	(kHz)	
03	2422	35572	500	Pass
06	2437	35636	500	Pass
09	2452	35718	500	Pass





Channel 06 (2437MHz)

				R T Freq/Channel
Occup	Ch Freq ied Bandwidt	2.437 GHz th	Trig	Free Center Freq 2.43700000 GHz
Ref 20	dBm	Atten 30 dB		Start Freq 2.38700000 GHz
#Peak Log 10			multur wast	Stop Freq 2.48700000 GHz
dB/	ana ANM	where where we have a second s	- Wannan	CF Step 10.0000000 MHz <u>Auto Man</u>
	r 2.437 GHz 3W 100 kHz	#VBW 300		Freq Offset 100 MHz 0.00000000 Hz 1 pts)
Oc	cupied B	andwidth 35.8746 MHz		99.00 % OD dB
	mit Freq Error Bandwidth	-1.906 kHz 35.636 MHz		
		NA NE		THE
🔆 Ag	ilent	Channe	el 09 (2452MHz)	R T Freq/Channel
	ilent Ch Freq ied Bandwidt	2.452 GHz	el 09 (2452MHz) Trig	Freq/Channel
Occup Ref 20	Ch Freq ied Bandwidt dBm	2.452 GHz		Free Center Freq
Occup Ref 20 #Peak Log 10	Ch Freq ied Bandwidt dBm	2.452 GHz th	Trig	Free Center Freq 2.45200000 GHz Start Freq 2.40200000 GHz Stop Freq 2.50200000 GHz
Occup Ref 20 #Peak Log	Ch Freq ied Bandwidt	2.452 GHz th Atten 30 dB	Trig	Free Center Freq 2.45200000 GHz Start Freq 2.40200000 GHz Stop Freq 2.50200000 GHz CF Step 10.0000000 MHz Auto Man
Occup Ref 20 #Peak Log 10 dB/	Ch Freq ied Bandwidt	2.452 GHz th Atten 30 dB	Trig	Free Center Freq 2.45200000 GHz Start Freq 2.40200000 GHz Stop Freq 2.50200000 GHz CF Step 100 MHz 1 pts)
Occup Ref 20 #Peak Log 10 dB/ Cente #Res F	Ch Freq ied Bandwidt dBm	2.452 GHz th Atten 30 dB	Trig	Free Center Freq 2.45200000 GHz Start Freq 2.40200000 GHz Stop Freq 2.50200000 GHz CF Step 10.0000000 MHz Auto Freq Offset 0.0000000 Hz

4.4. Maximum Peak Output Power

TEST CONFIGURATION



TEST PROCEDURE

According to C63.10 -2009 and KDB558074 D01 v03r02, The EUT was directly connected to the power meter / spectrum analyzer and antenna output port as show in the block diagram as TEST CONFIGURATION shows.

Use the wideband power meter to test peak power and record the result.

<u>LIMIT</u>

The Peak Output Power Measurement limits are 30dBm.

TEST RESULTS

		it to
Product	:	Tablet PC
Test Item	:	Power Output
Test Mode	:	Mode 1: Transmit by 802.11b

Channel No.	Frequency Measurement Power Output		Limit	Result
	(MHz)	(dBm)	(dBm)	
1	2412	9.62	30.00	Pass
6	2437	9.43	30.00	Pass
11	2462	9.55	30.00	Pass

Product	: Tablet PC
Test Item	: Power Output
Test Mode	: Mode 2: Transmit by 802.11g
	Sung .

Channel No.	Frequency	Measurement Power Output	Limit	Result
	(MHz)	(dBm)	(dBm)	
1	2412	9.52	30.00	Pass
6	2437	9.38	30.00	Pass
11	2462	9.43	30.00	Pass

Report No.: CTL1410112481-WF01

V Co.,1

Product	:	Tablet PC
Test Item	:	Power Output
Test Mode	:	Mode 3: Transmit by 802.11n(20MHz)

Channel No.	Frequency Measurement Power Output		Limit	Result
	(MHz)	(dBm)	(dBm)	
1	2412	9.33	30.00	Pass
6	2437	9.17	30.00	Pass
11	2462	9.28	30.00	Pass

Product	:	Tablet PC		
Test Item	:	Power Output		
Test Mode	:	Mode 4: Transmit by 802.11n(40MHz)		
		the	太人	

		the	态	
Channel No.	Frequency	Measurement Power Output	Limit	Result
	(MHz)	(dBm)	(dBm)	
3	2422	8.86	30.00	Pass
6	2437	8.72	30.00	Pass
9	2452	8.93	30.00	Pass

Note: The test results including the cable lose. Testing Technology

4.5. Band Edge Measurement

TEST CONFIGURATION



TEST PROCEDURE

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 and FCC KDB Publication No. 558074 D01 v03r02 (Measurement Guidelines of DTS) with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc.

RBW 1MHz VBW 3MHz PEAK Detector : Pk value above 1GHz; RBW 1MHz VBW 3MHz RMS Detector : AVvalue above 1GHz

Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel.

<u>LIMIT</u>

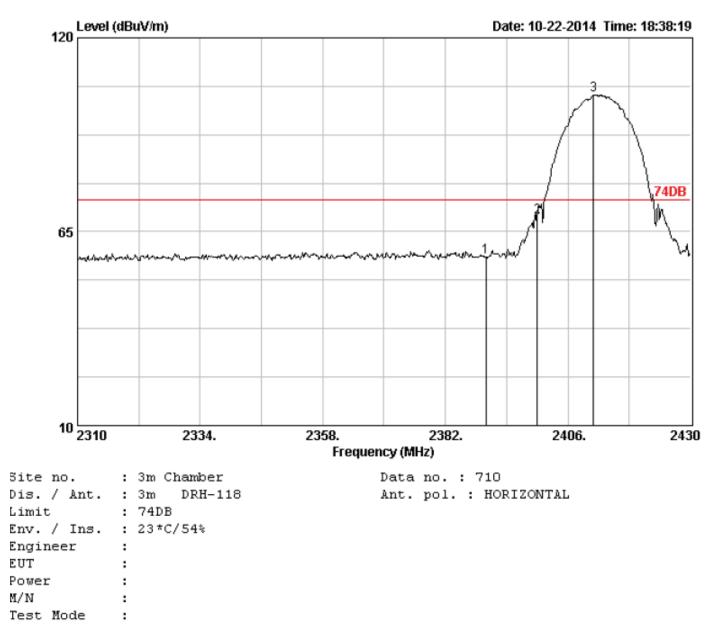
1. Below -20dB of the highest emission level in operating band.

2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209(see Section 15.205(c)).

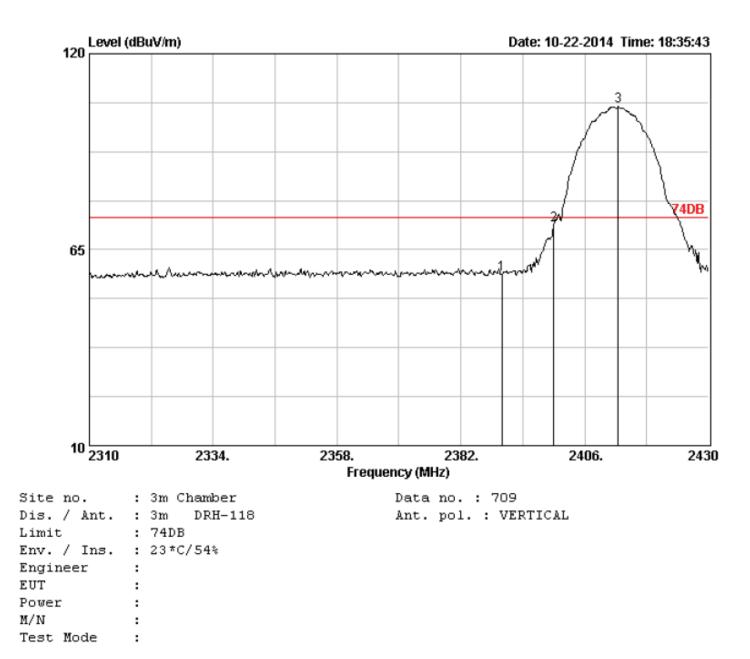
Frequency (MHz)	Limit Average (dBuv/m)	Limit Peak (dBuv/m)
Below 2390 or Above 2483.5	54	74

TEST RESULTS

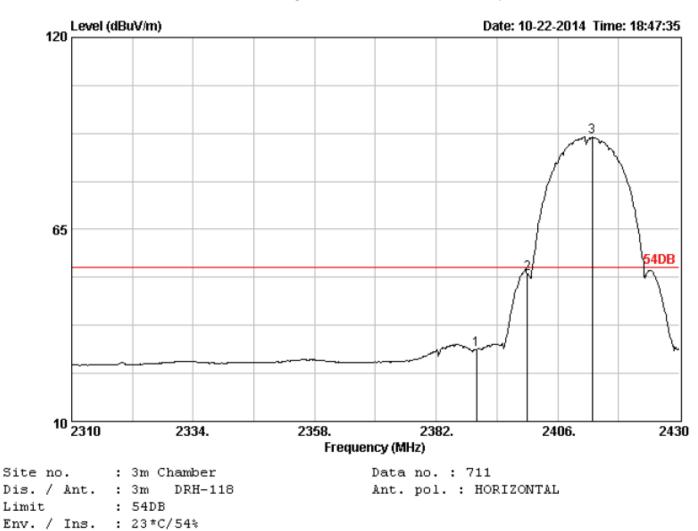
Transmitting mode: 802.11b



		Ant.	Cable		Emission			
	Freq. (MHz)	Factor (dB)		-	Level (dBuV/m)		-	Remark
1	2390.00	28.78	4.61	59.84	57.87	74.00	16.13	Peak
2	2400.00	28.78	4.61	70.97	69.00	74.00	5.00	Peak
3	2411.04	28.81	4.63	105.79	103.87	74.00	-29.87	Peak



	Freq. (MHz)	Ant. Factor (dB)		Reading	Emission Level (dBuV/m)	Limits	2	Remark
1 2 3	2390.00 2400.00 2412.48	28.78	4.61 4.61 4.63	74.02	58.23 72.05 105.28	74.00 74.00 74.00	15.77 1.95 -31.28	Peak Peak Peak Peak



	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1 2 3	2390.00 2400.00 2412.84	28.78 28.78 28.81	4.61 4.61 4.63	32.63 54.17 93.40	30.66 52.20 91.48	54.00 54.00 54.00	23.34 1.80 -37.48	Average Average Average Average

Engineer

Test Mode

EUT

M/N

Power

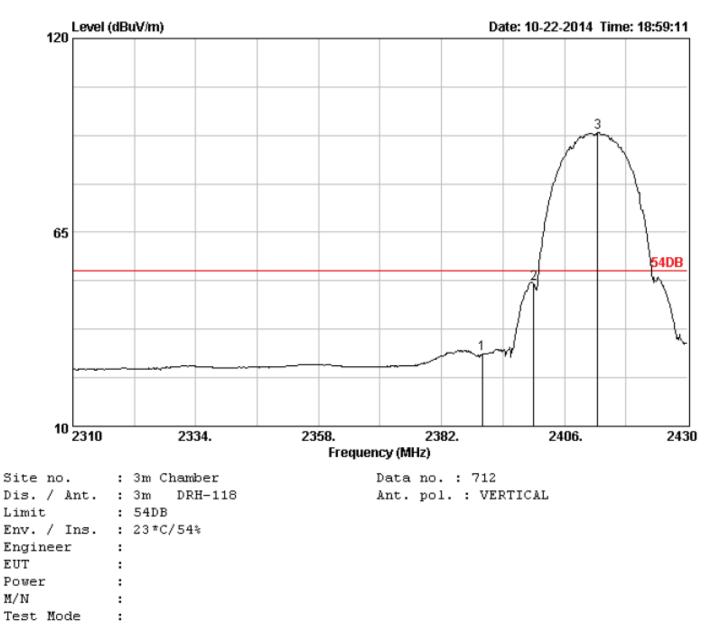
:

:

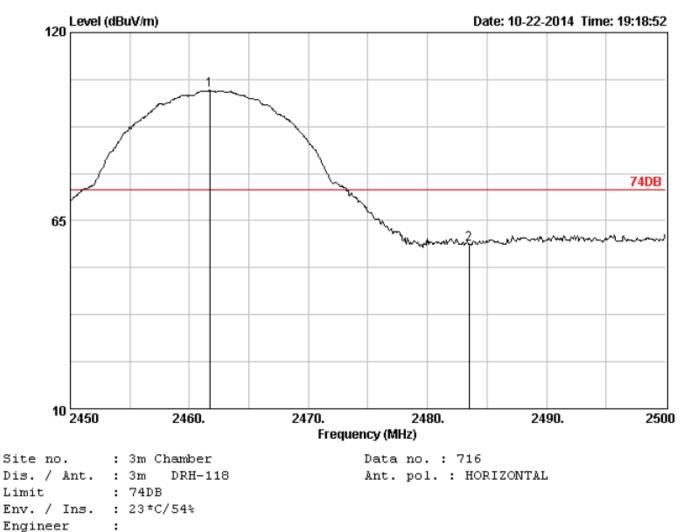
:

:

:



	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)		Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.78	4.61	32.43	30.46	54.00	23.54	Average
2	2400.00	28.78	4.61	52.31	50.34	54.00	3.66	Average
3	2412.48	28.81	4.63	95.28	93.36	54.00	-39.36	Average



	Freq. (MHz)	Ant. Factor (dB)		-	Emission Level (dBuV/m)	Limits	-	Remark	
1 2	2461.70 2483.50		4.68 4.70	104.99 59.80	103.20 58.05	74.00 74.00	-29.20 15.95	Peak Peak	

EUT

M/N

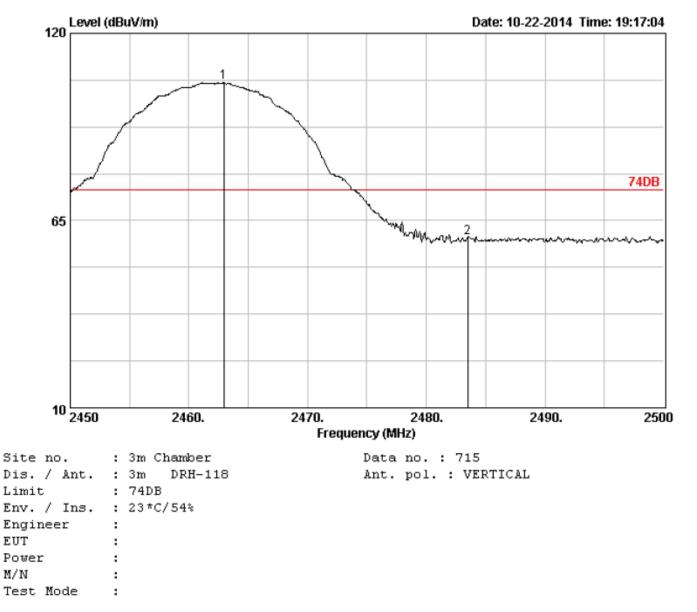
Power

Test Mode :

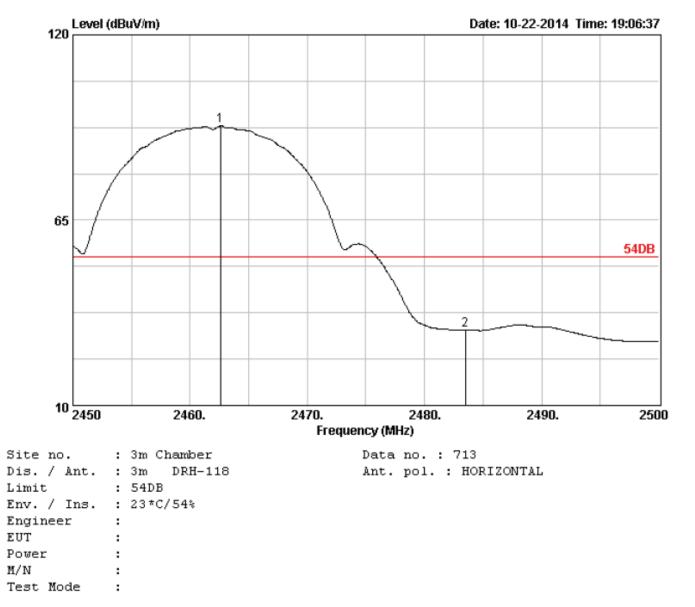
:

:

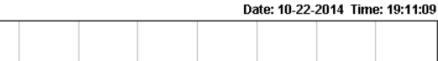
:



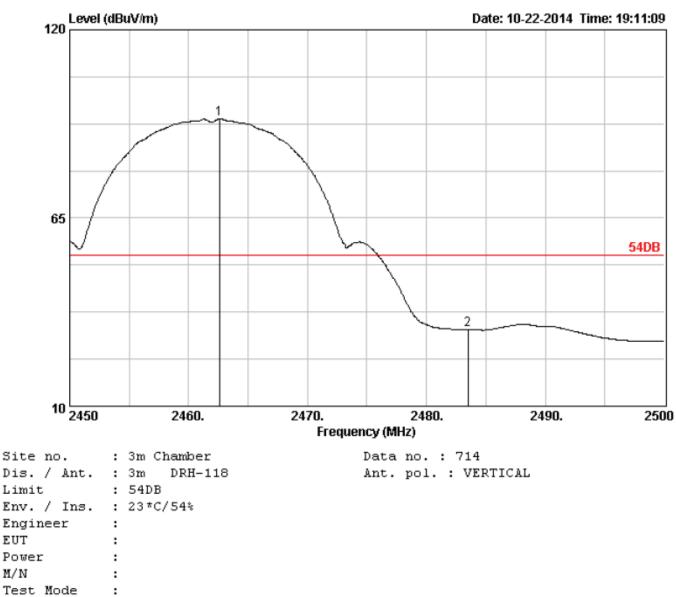
	Freq. (MHz)	Ant. Factor (dB)	Reading	Emission Level (dBuV/m)	Limits	2	Remark
-	2462.95 2483.50		 107.48 61.81	105.69 60.06	74.00 74.00	-31.69 13.94	Peak Peak



	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	-	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2462.60		4.68	94.76	92.97	54.00	-38.97	Average
2	2483.50		4.70	34.01	32.26	54.00	21.74	Average



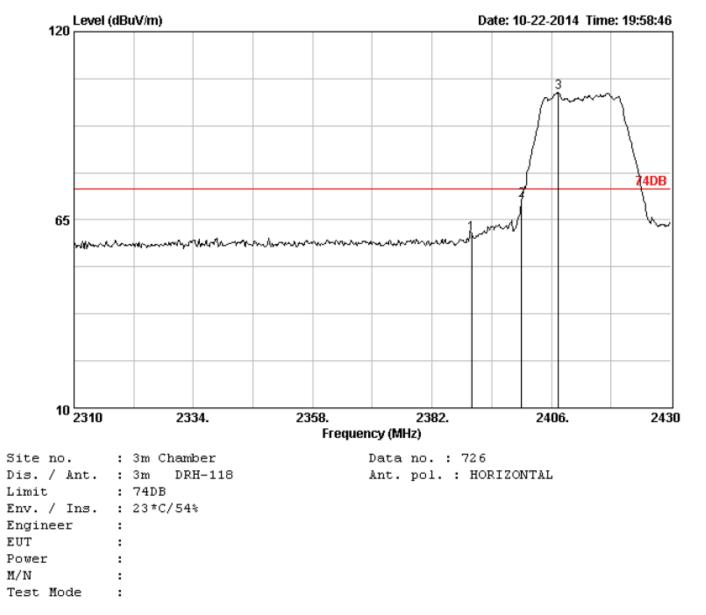
Page 42 of 101



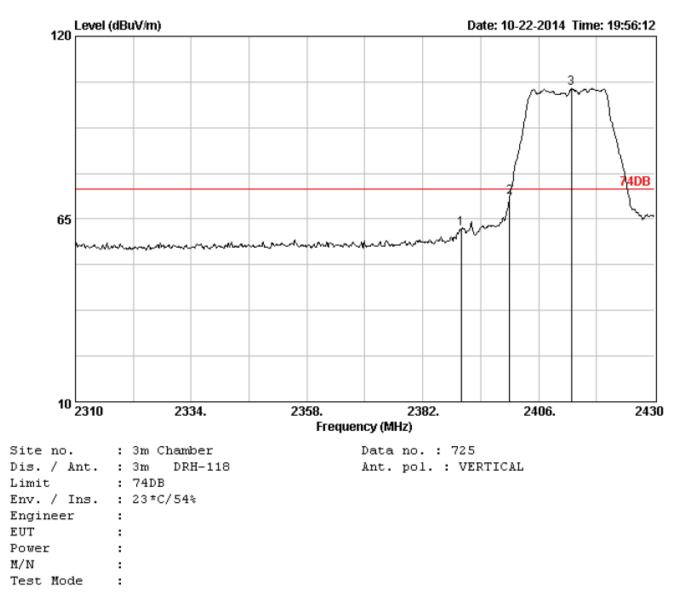
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	-	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2462.60		4.68	95.76	93.97	54.00	-39.97	Average
2	2483.50		4.70	34.02	32.27	54.00	21.73	Average

EUT

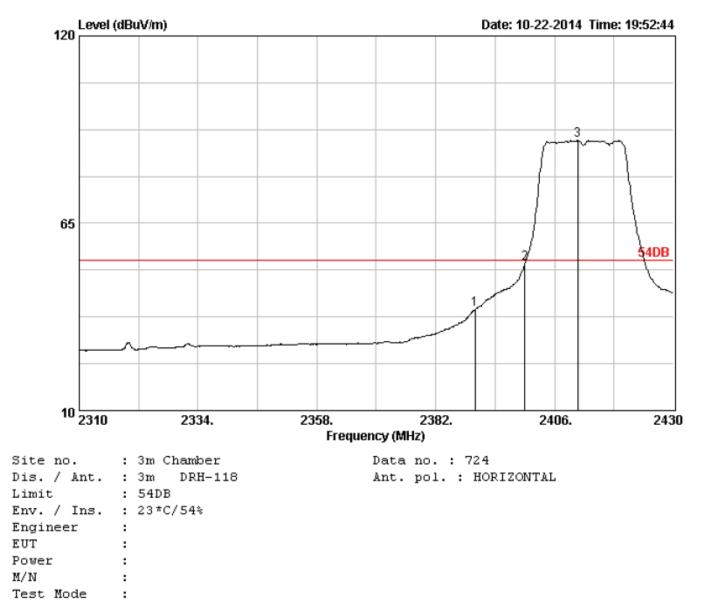




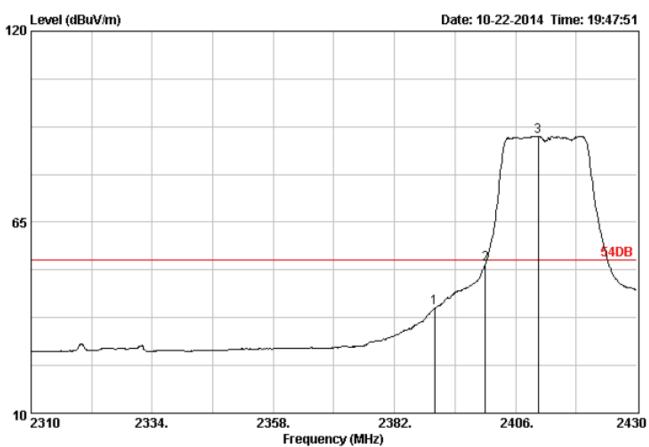
	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	2	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1 2 3	2390.00 2400.00 2407.44	28.78 28.78 28.81	4.61 4.61 4.63	62.95 72.51 104.15	60.98 70.54 102.23	74.00 74.00 74.00	13.02 3.46 -28.23	Peak Peak Peak Peak



	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	2	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1 2 3	2390.00 2400.00 2412.84	28.78	4.61 4.61 4.63	63.95 73.65 106.19	61.98 71.68 104.27	74.00 74.00 74.00	12.02 2.32 -30.27	Peak Peak Peak Peak



	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2390.00	28.78	4.61	41.78	39.81	54.00	14.19	Average
2	2400.00	28.78	4.61	55.14	53.17	54.00	0.83	Average
3	2410.68	28.81	4.63	91.26	89.34	54.00	-35.34	Average

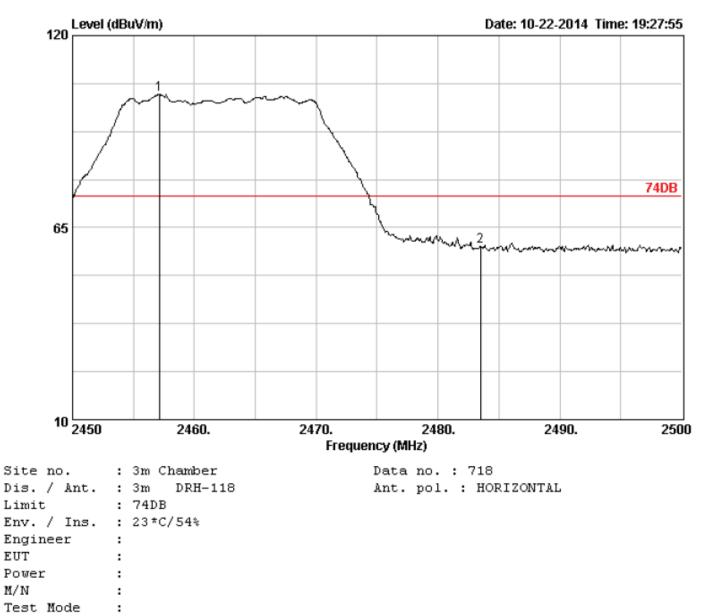


Data no. : 723

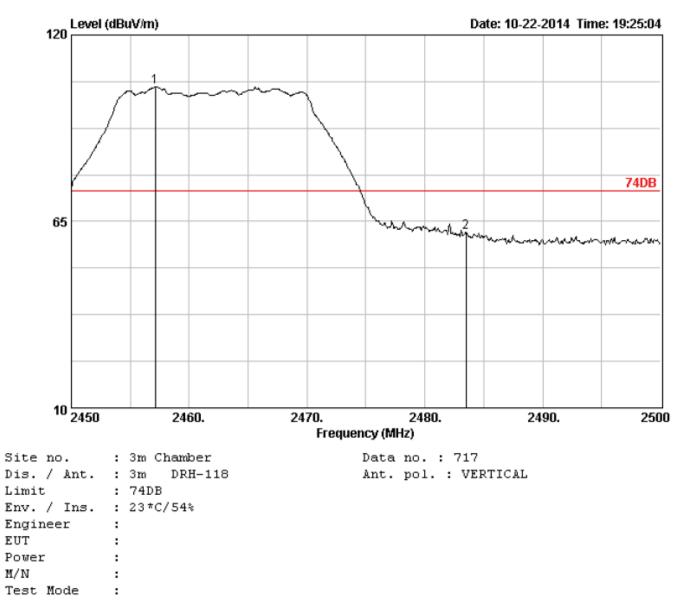
Ant. pol. : VERTICAL

Site no.	:	3m Chamber
Dis. / Ant.	:	3m DRH-118
Limit	:	54DB
Env. / Ins.	:	23*C/54%
Engineer	:	
EUT	:	
Power	:	
M/N	:	
Test Mode	:	

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)		Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.78	4.61	42.30	40.33	54.00	13.67	Average
2	2400.00	28.78	4.61	54.97	53.00	54.00	1.00	Average
3	2410.44	28.81	4.63	91.65	89.73	54.00	-35.73	Average



	Freq. (MHz)	Ant. Factor (dB)	-	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1 2	2457.10 2483.50		 104.86 61.29	103.07 59.54	74.00 74.00	-29.07 14.46	Peak Peak



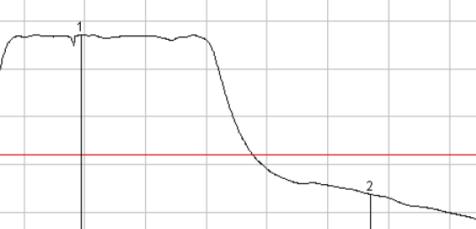
	Freq. (MHz)	Ant. Factor (dB)	-		Limits (dBuV/m)	-	Remark
1 2	2457.10 2483.50		 106.43 63.41	104.64 61.66		-30.64 12.34	Peak Peak Peak

54DB

2500

Date: 10-22-2014 Time: 19:41:55

2490.



2480.

Data no. : 721

Ant. pol. : HORIZONTAL

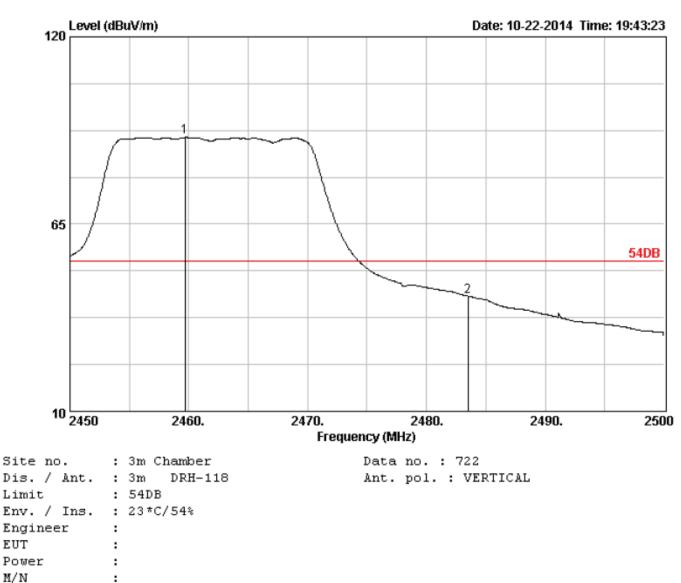
10						
¹⁰ 2450		2460.	24	70.		24
				Frequen	CY (MH	łz)
Site no.	:	3m Chamber		1	Data	no
Dis. / Ant.	:	3m DRH-118		i.	Ant.	po
Limit	:	54DB				
Env. / Ins.	:	23*C/54%				
Engineer	:					
EUT	:					
Power	:					
M/N	:					
Test Mode	:					

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	2	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2459.70		4.68	90.24	88.45	54.00	-34.45	Average
2	2483.50		4.70	44.59	42.84	54.00	11.16	Average

120 Level (dBuV/m)

65

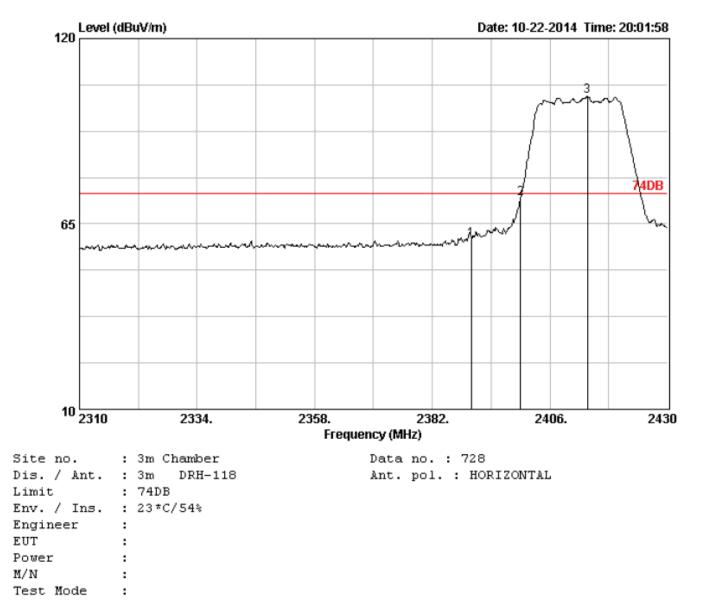
_



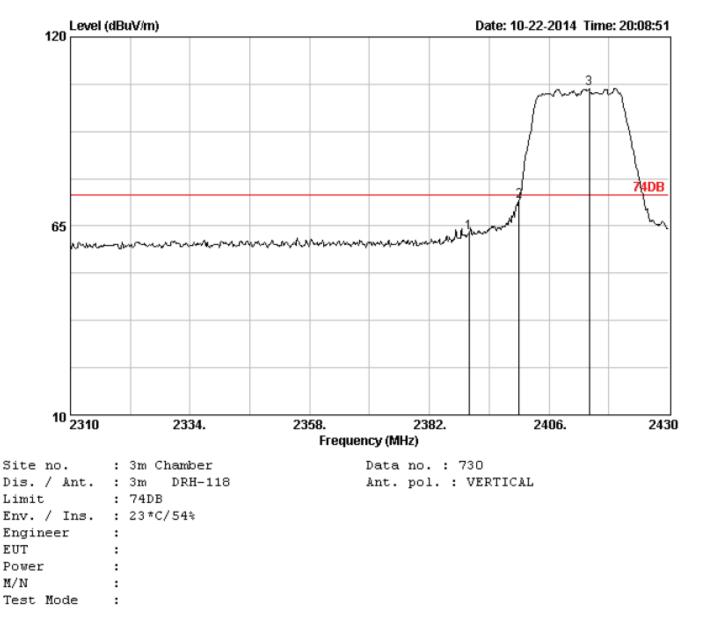
Test	Mode	:

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	-	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1 2	2459.70 2483.50		4.68 4.70	92.24 45.59	90.45 43.84		-36.45 10.16	Average Average

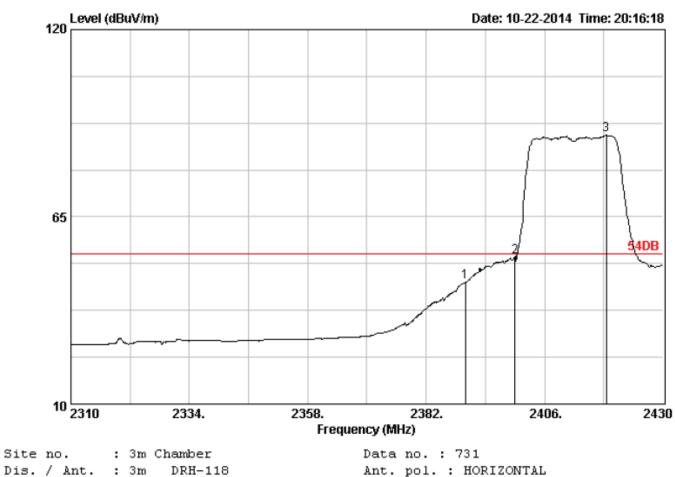
Note : For 802.11n (20MHz) Mode:



	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark	
1 2 3	2390.00 2400.00 2413.68	28.78	4.61 4.61 4.63	62.21 74.57 104.71	60.24 72.60 102.79	74.00 74.00 74.00	13.76 1.40 -28.79	Peak Peak Peak	

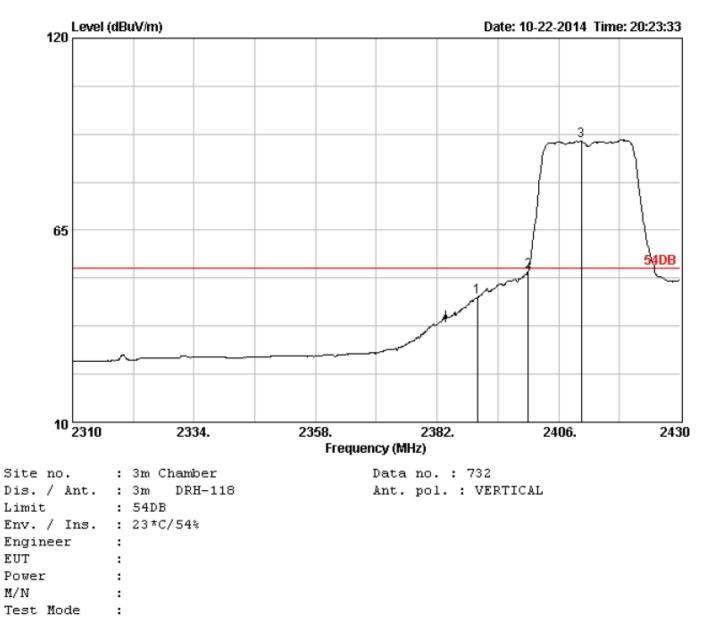


	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	2	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2390.00	28.78	4.61	64.91	62.94	74.00	11.06	Peak
2	2400.00	28.78	4.61	74.08	72.11	74.00	1.89	Peak
3	2414.04	28.81	4.63	106.86	104.94	74.00	-30.94	Peak

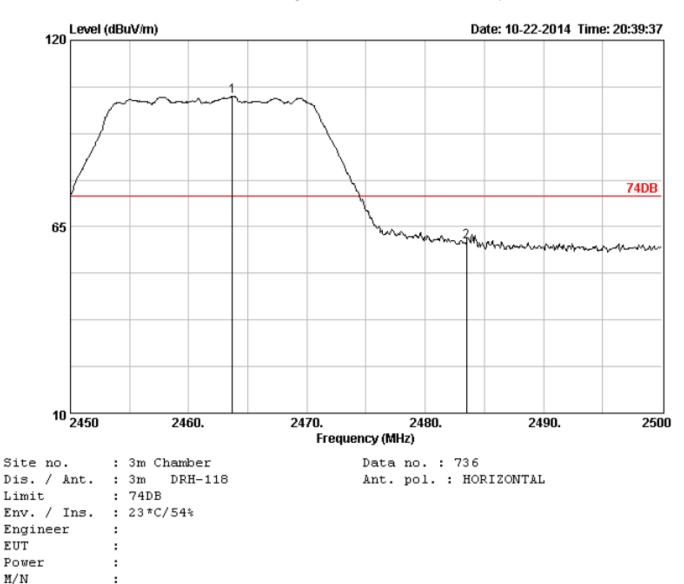


Dis. / Ant.	: 3m DRH-118
Limit	: 54DB
Env. / Ins.	: 23*C/54%
Engineer	:
EUT	:
Power	:
M/N	:
Test Mode	:

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)		Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.78	4.61	47.82	45.85	54.00	8.15	Average
2	2400.00	28.78	4.61	55.29	53.32	54.00	0.68	Average
3	2418.48	28.81	4.63	90.90	88.98	54.00	-34.98	Average

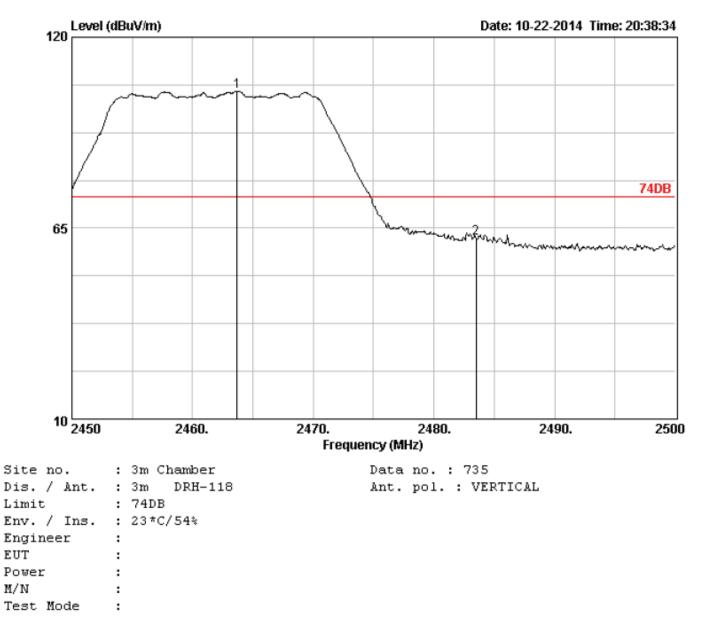


	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)		Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	28.78	4.61	47.80	45.83	54.00	8.17	Average
2	2400.00	28.78	4.61	55.33	53.36	54.00	0.64	Average
3	2410.44	28.81	4.63	92.48	90.56	54.00	-36.56	Average

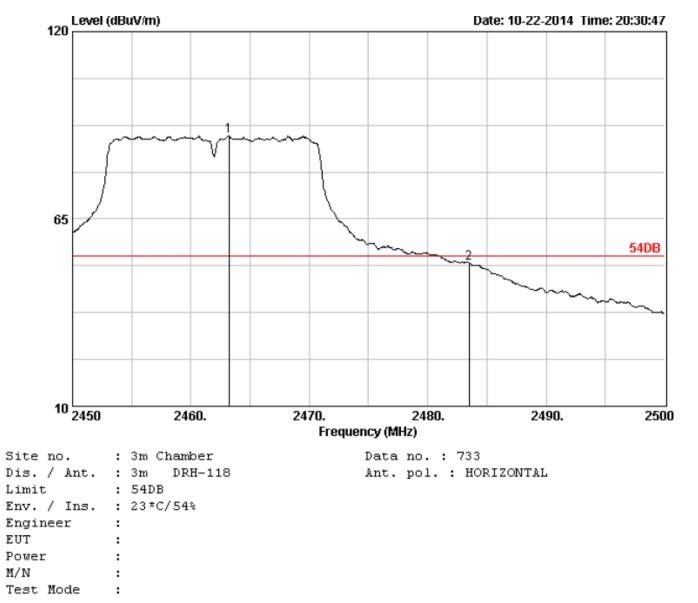


	Freq. (MHz)	Ant. Factor (dB)	2		Limits (dBuV/m)	2	Remark
1 2	2463.70 2483.50		 105.27 62.39	103.48 60.64	74.00 74.00	-29.48 13.36	Peak Peak

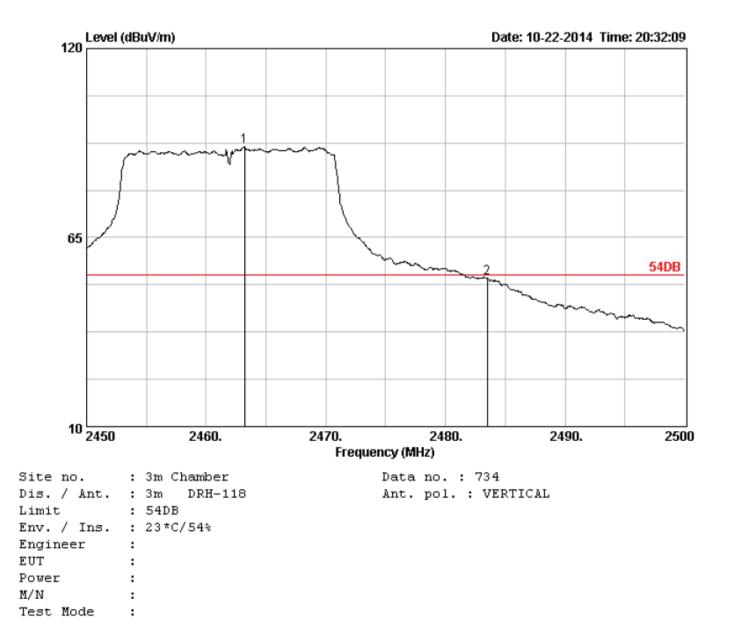
Test Mode :



	Freq. (MHz)	Ant. Factor (dB)	2	Emission Level (dBuV/m)	Limits	2	Remark
1 2	2463.70 2483.50		 106.30 63.83	104.51 62.08	74.00 74.00	-30.51 11.92	Peak Peak

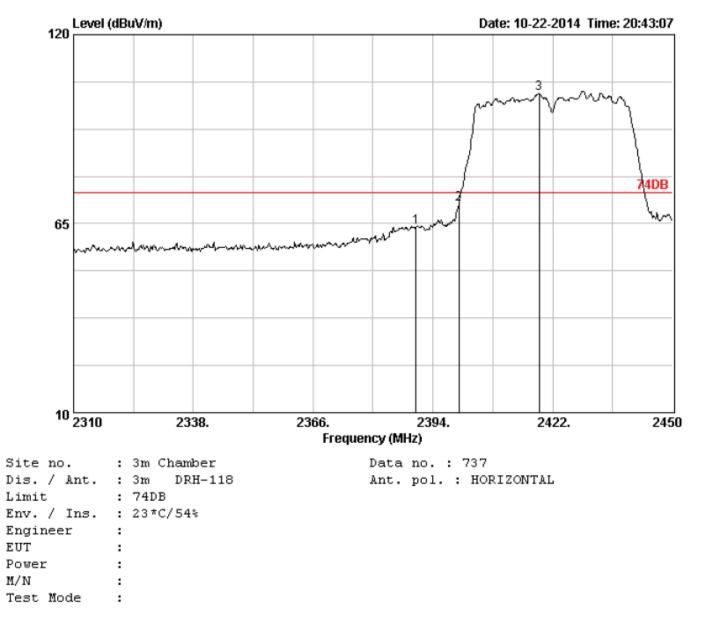


	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2463.20		4.68	91.18	89.39	54.00	-35.39	Average
2	2483.50		4.70	53.82	52.07	54.00	1.93	Average

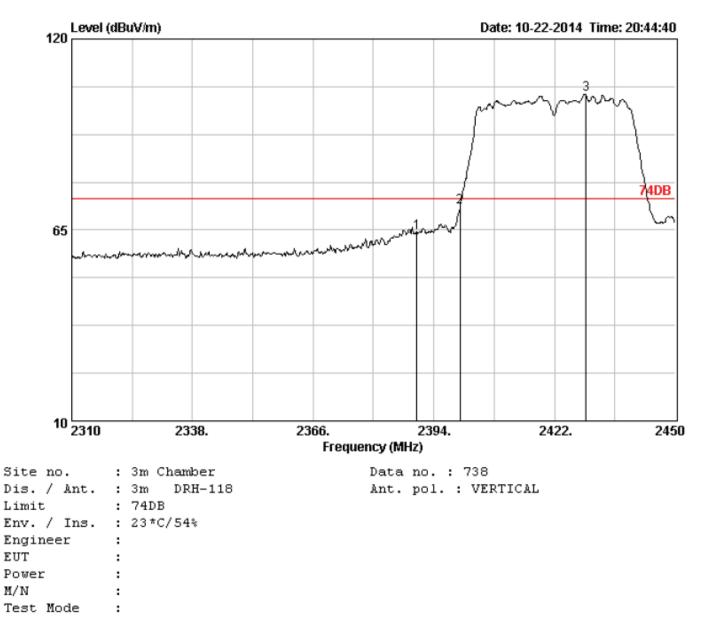


	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	2	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2463.20		4.68	93.24	91.45	54.00	-37.45	Average
2	2483.50		4.70	54.86	53.11	54.00	0.89	Average

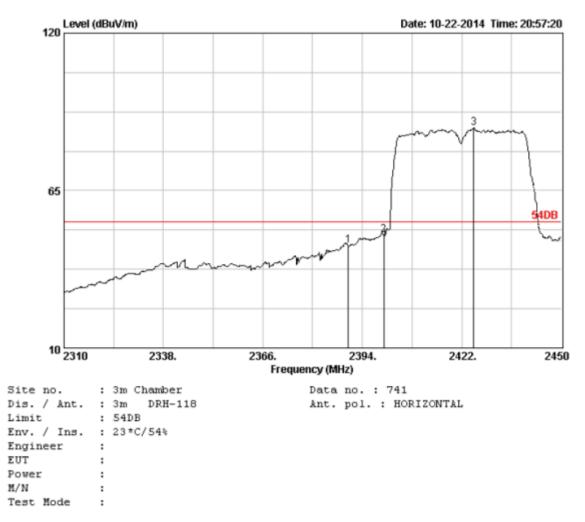
Note : For 802.11n (40MHz) Mode:



	Freq. (MHz)	Ant. Factor (dB)		-	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1 2 3	2390.00 2400.00 2418.78	28.78	4.61 4.61 4.63	65.85 72.72 104.73	63.88 70.75 102.81	74.00 74.00 74.00	10.12 3.25 -28.81	Peak Peak Peak Peak



	Freq. (MHz)	Ant. Factor (dB)		-	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1 2	2390.00 2400.00	28.78 28.78	4.61 4.61	66.31 73.53	64.34 71.56	74.00 74.00	9.66 2.44	Peak Peak
3	2429.28				104.03	74.00	-30.03	Peak



	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2	2390.00 2400.00	28.78 28.78	4.61	47.91 51.47	45.94 49.50	54.00 54.00	8.06	Average Average
3	2425.36	28.84	4.64	88.93	87.05	54.00 HTY	-33.05	Average

54DB

2450

File: C:/Documents and Settings/Administrator/My Documents/33.EMI (747) Data: 739 120 Level (dBuV/m) Date: 10-22-2014 Time: 20:48:47 З

10 2310 2366. Site no. : 3m Chamber Dis. / Ant. : 3m DRH-118 Limit : 54DB Env. / Ins. : 23*C/54% Engineer : Engineer EUT : Power : M/N : Test Mode :

2338.

	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2390.00	28.78	4.61	48.96	46.99	54.00	7.01	Average
2	2400.00	28.78	4.61	53.29	51.32	54.00	2.68	Average
3	2425.36	28.84	4.64	91.76	89.88	54.00	-35.88	Average
5	2423.30	20.04	1.01	91.70	09.00	54.00	-33.00	Average
						ung	1	1
						9		

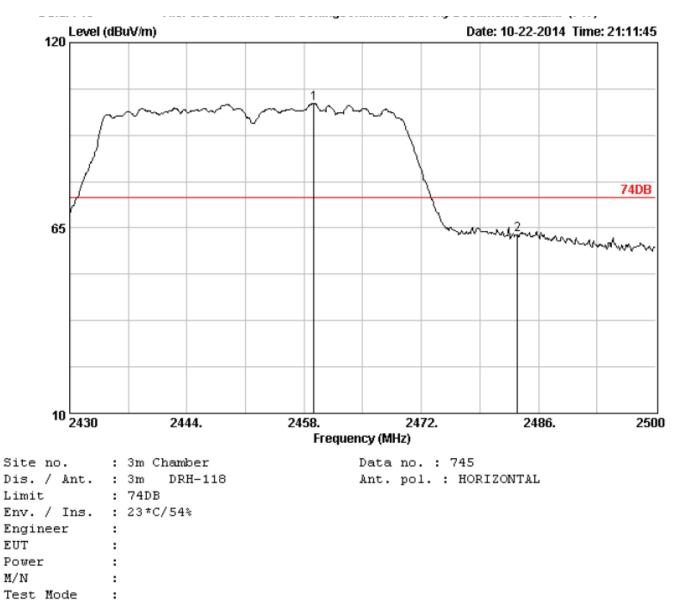
65

2394.

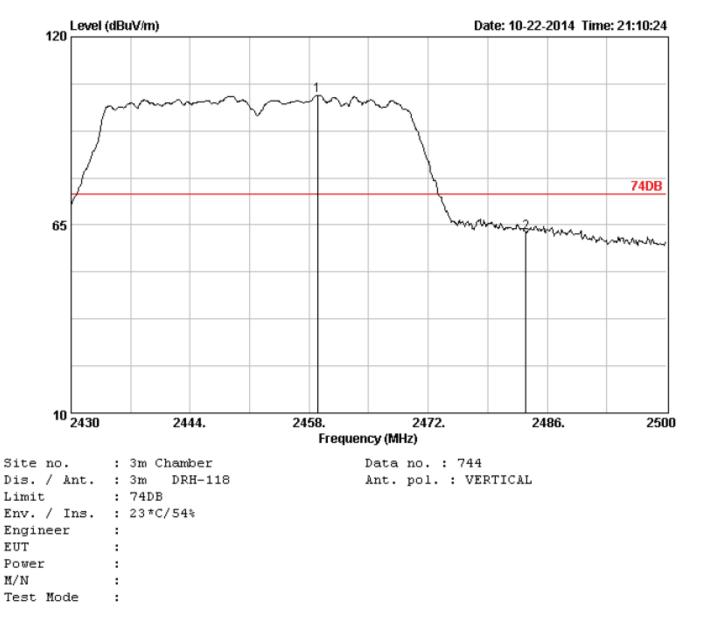
Data no. : 739 Ant. pol. : VERTICAL

Frequency (MHz)

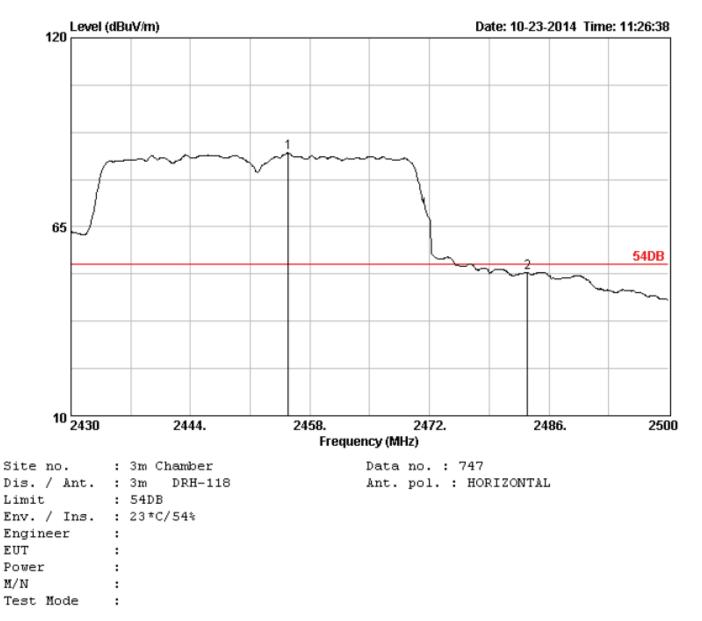
2422.



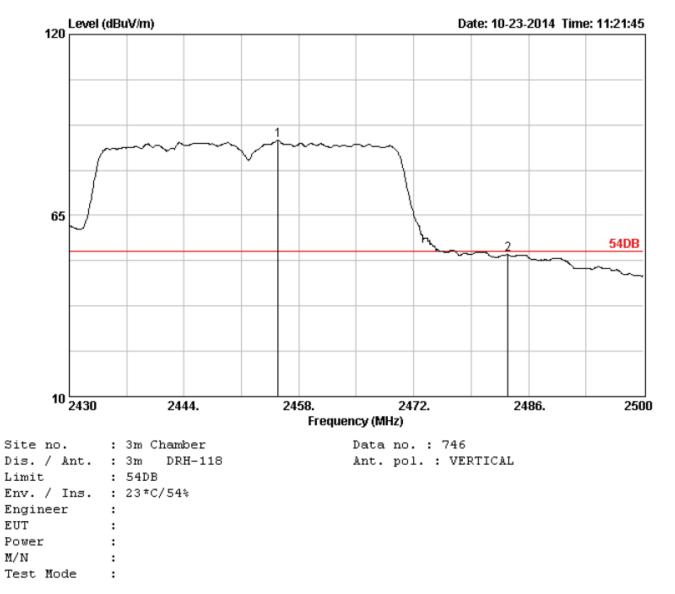
	Freq. (MHz)		Reading	Limits (dBuV/m)	-	Remark
_	2459.19 2483.50	 	103.72 64.74	 74.00 74.00	-27.93 11.01	Peak Peak



	Freq. (MHz)	Ant. Factor (dB)	Reading		Limits (dBuV/m)	2	Remark	
1 2	2458.98 2483.50		 104.75 64.43	102.96 62.68		-28.96 11.32	Peak Peak	



	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)		Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2455.48		4.68	88.34	86.55	54.00	-32.55	Average
2	2483.50		4.70	53.44	51.69	54.00	2.31	Average



	Freq. (MHz)	Ant. Factor (dB)	Cable Loss (dB)	2	Emission Level (dBuV/m)	Limits	Margin (dB)	Remark
1	2455.48		4.68	89.62	87.83	54.00	-33.83	Average
2	2483.50		4.70	54.83	53.08	54.00	0.92	Average

4.6. Power Spectral Density Measurement

TEST CONFIGURATION



TEST PROCEDURE

The EUT was tested according to KDB558074 D01 v03r02 for compliance to FCC 47CFR 15.247 and RSS-210 requirements.

Set RBW= 3 kHz, VBW≥10KHz, SPAN to 1.5 times greater than the EBW,.

LIMIT

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.

+A

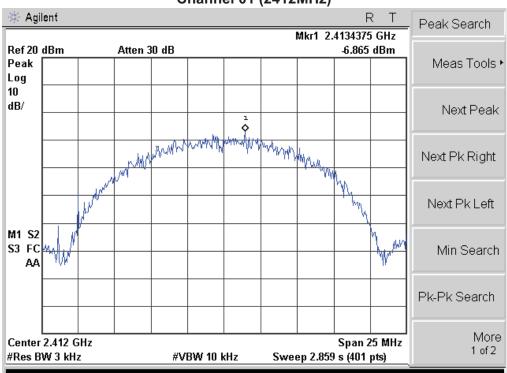
TEST RESULTS

Product	: Tablet PC
Test Item	: Power Spectral Density
Test Mode	: Mode 1: Transmit by 802.11b

Ch Testing Technolos

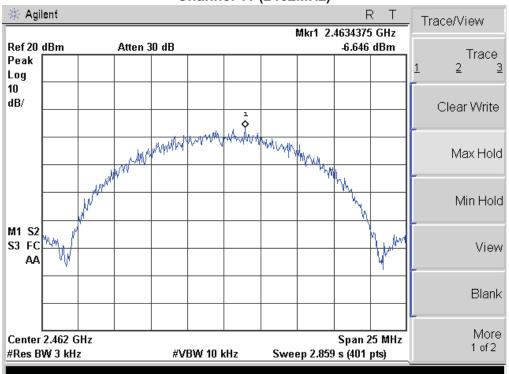
Channel No.	Frequency (MHz)	Measurement PPSD (dBm/3KHz)	Limit (dBm/3KHz)	Result
01	2412	-6.865	8	Pass
06	2437	-6.791	8	Pass
11	2462	-6.646	8	Pass

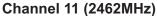
11-



Channel 01 (2412MHz)

Channel 06 (2437MHz) 🔆 Agilent R Т Peak Search Mkr1 2.4384375 GHz Ref 20 dBm Atten 30 dB -6.791 dBm Peak Meas Tools • Log 10 dB/ Next Peak The second secon way way way Next Pk Right Next Pk Left М W1 S2 W.M S3 FC -W Min Search AA Pk-Pk Search More Span 25 MHz Center 2.437 GHz 1 of 2 #Res BW 3 kHz #VBW 10 kHz Sweep 2.859 s (401 pts)

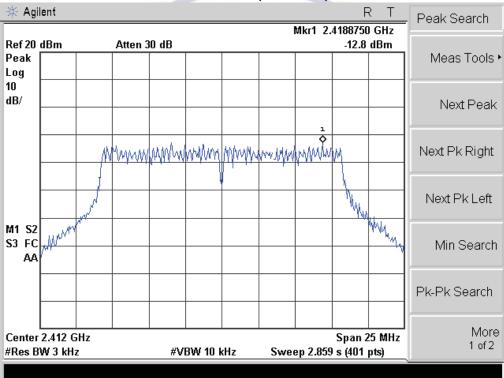




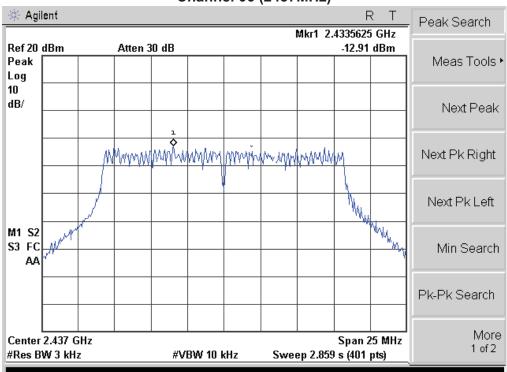


Product	:	Tablet PC			
Test Item	:	Power Spectral Density			
Test Mode	:	Mode 2: Transmit by 802.11g			

Channel No.	Frequency (MHz)	Measurement PPSD (dBm/3KHz)	Limit (dBm/3KHz)	Result
01	2412	-12.80	8	Pass
06	2437	-12.91	8	Pass
11	2462	-12.76	8	Pass



Channel 01 (2412MHz)



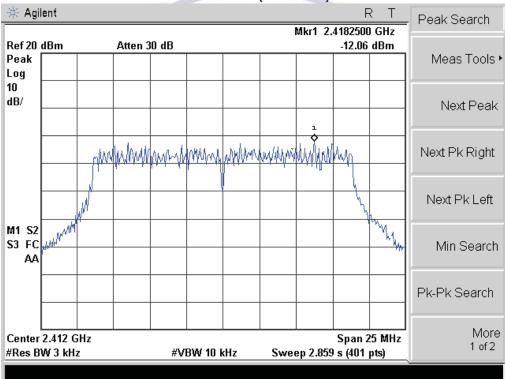
Channel 06 (2437MHz)

Channel 11 (2462MHz)

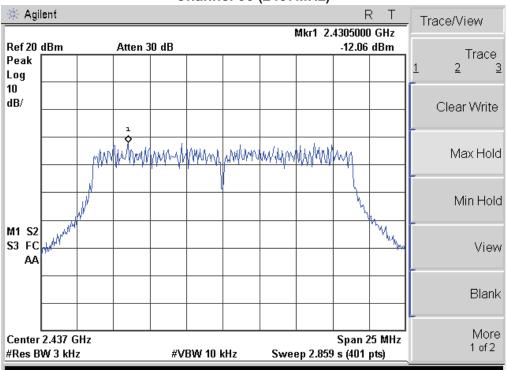
🔆 Agil	ent								F	R T	Tra	ace/View	
Ref 20 g	dBm		Atten 3	0 dB			I	Mkr1 2.	4585625 -12.76			Trac	
Peak Log											1	2	.e 3
10 dB/												Clear Writ	te
		Ŵ	MAYANN W	MM	willing	mmm	prim	r MMW	M			Max Ho	old
									MAL			Min Ho	olo
V1 S2 S3 FC AA	Net Marine									MWW		Vie	эw
												Blar	nk
Center #Res B				#V	BW 10 I	(Hz	Swee	ep 2.859	Span 2) s (401			Mo 1 of:	

Product	:	Tablet PC			
Test Item	:	Power Spectral Density			
Test Mode	:	Mode 3: Transmit by 802.11n (20MHz)			

Channel No.	Frequency (MHz)	Measurement PPSD (dBm/3KHz)	Limit (dBm/3KHz)	Result
01	2412	-12.06	8	Pass
06	2437	-12.06	8	Pass
11	2462	-11.95	8	Pass



Channel 01 (2412MHz)

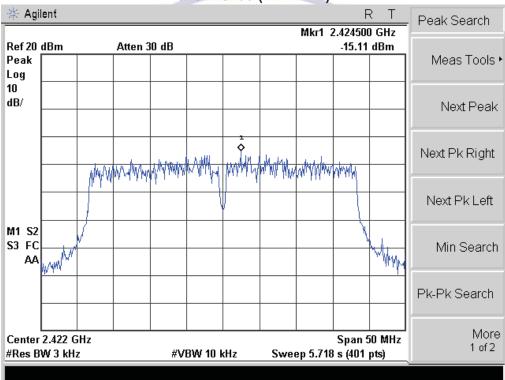


Channel 11 (2462MHz)

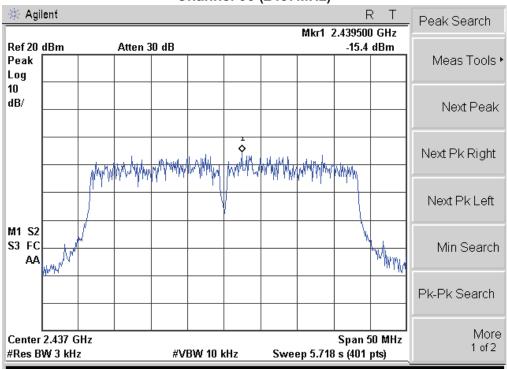
🔆 Agi	lent								F	<u> </u>	Peak Search
							I	Mkr1 2.			
Ref 20 Peak Log	dBm		Atten 3	i0 dB					-11.95	dBm	Meas Tools •
10 dB/											Next Peak
		ntw	ŴŴ	pmp-yh	MMmy	MMM	www	WW/WW	Mh		Next Pk Right
		A Contraction of the second se							- h		Next Pk Left
M1 S2 S3 FC AA	North Walked									M. W. M.	Min Search
											Pk-Pk Search
	2.462 G W 3 kHz			#V	BW 10 I	(Hz	Swe	ep 2.859	Span 2) s (401		More 1 of 2

Product	:	Tablet PC
Test Item	:	Power Spectral Density
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

Channel No.	Frequency (MHz)	Measurement PPSD (dBm/3KHz)	Limit (dBm/3KHz)	Result
03	2422	-15.11	8	Pass
06	2437	-15.40	8	Pass
09	2452	-15.89	8	Pass



Channel 03 (2422MHz)



Channel 09 (2452MHz)

🔆 Agil	ent								F	<u>र म</u>	Peak Search
								Mkr1 2	2.454500		
Ref 20 Peak Log	dBm		Atten 3	0 dB					-15.89	dBm	Meas Tools '
10 dB/											Next Peak
		alkrad	MM	M. Portelling	MM		M WHAT WANK	Minine	NHMA		Next Pk Right
		// / / / /		φ			. 10	, it			Next Pk Left
M1 S2 S3 FC AA	www.huw	/							\	MIMM	Min Search
											Pk-Pk Search
Center #Res B				#V	BW 10 I	(Hz	Swee	ep 5.718		50 MHz pts)	More 1 of 2

4.7. Spurious RF Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

The EUT was tested according to KDB558074 D01 v03r02 for compliance to FCC 47CFR 15.247 requirements.

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2009 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBM= 300KHz to measure the peak field strength, and measure frequeny range from 30MHz to 26.5GHz.

LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

TEST RESULTS

Product	:	Tablet PC	to
Test Item	:	RF Antenna Conducted Spurious	1
Test Mode		Mode 1: Transmit by 802.11b	0.

Atten 30 dB			Mkr1 835.1 MH 44.41 dBm	
				Next Peak
		1		
				Next Pk Right
				Next Pk Left
udun marina				Min Search
				Pk-Pk Search
#VE	300 kHz	Sweep 10		Z More 1 of 2
-		#VBW 300 kHz	#VBW 300 kHz Sweep 10	Stop 1 GH

Channel 01 (2412MHz)

🔆 Agil	lent									F		- Display
Ref 20	dBm			Atten 3	10 dB				M	kr1 2.4 2 145	4 GHz idBm	
Peak Log										2.110		Full Screen
10 dB/	l ¢											Display Line -17.86 dBm <u>On Off</u>
DI -17.9												
dBm												Limits►
V1 S2 S3 FC AA		m,	mm	and the second second	- Maria			·····	server and the server of the s	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u>, ann an a</u>	Active Fctn Position ► Center
												Title ►
Start 1 #Res B		0 k	Hz		#VE	3W 300	kHz	Swei	ep 2.486		5 GHz	Preferences •



				0	manni		(2437	101112			
🔆 Agi	ent									<u> २ т</u>	Peak Search
Ref 20 Peak Log	dBm		Atten	30 dB				MH	ar1 626. _44.77		Meas Tools '
10 dB/											Next Peak
DI -17.9											Next Pk Right
dBm											Next Pk Left
M1 S2 S3 FC AA		walden-we	una		un man	~~~~	1 2 	man			Min Search
											Pk-Pk Search
Start 31 #Res B) MHz W 100 k	:Hz		#VE	3W 300	kHz	Swee	p 100.5 i		1 GHz	More 1 of 2

🔆 Agil	lent			7.1						F	२ Т	Display
Ref 20				Atten	30 dB				M	lkr1 2.4 2.096	4 GHz idBm	- Display
Peak Log												Full Screen
10 dB/	1											Display Line -17.90 dBm <u>On Ot</u>
DI -17.9 dBm												
												Limits
V1 S2 S3 FC AA	www	ň.	window-high	-	- www.ward	in the second		en de constantes de la constante	*~~~~*\~~*	wan Marin		Active Fctn Position Cente
												Title
Start 1 #Res B			Hz		#V	BW 300	kHz	Swe	ep 2.486		5 GHz	Preferences

				U U	Iam	ei i i	(2402	IVII 12)			
🔆 Agi	lent									<u>२ म</u>	Peak Search
Ref 20 Peak Log	dBm		Atten	30 dB			Mk	ar1 850. _43.69		Meas Tools	
10 dB/											Next Peak
DI -17.6											Next Pk Right
dBm									ı		Next Pk Left
M1 S2 S3 FC AA	hannach	-		n served a	non m	-	man		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Min Search
											Pk-Pk Search
Start 3 #Res B	D kHz W 100 I	kHz		 #VE	3W 300	kHz	Sweep	o 103.6 i		1 GHz	More 1 of 2

Channel 11 (2462MHz)

🔆 Agi	lent	11								F	х т	, Display
Ref 20	dBm			Atten	30 dB				M	lkr1 2.4 2.419	4 GHz dBm	
Peak Log 10	1											Full Screen
dB/	¢											Display Line -17.58 dBm <u>On Of</u>
DI -17.6												
dBm												Limits
V1 S2 S3 FC AA	-	~	whichen		- men		when	dad man	·č		~~~	Active Fctn Position Center
												Title
Start 1 #Res B			:H7		#\/I	3W 300	kH7	Swe	ep 2.486		5 GHz	Preferences

Product	:	Tablet PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	•	Mode 2: Transmit by 802.11g

				C	nann	erur	(2412	IVITIZ)			
🔆 Agi	lent								F	<u> २ т</u>	Peak Search
Ref 20 Peak Log	dBm		Atten 3	0 dB				Mk	(r1 849. -44.09		Meas Tools •
10 dB/											Next Peak
DI -19.1											Next Pk Right
dBm									1		Next Pk Left
M1 S2 S3 FC AA		non		e-server	v~~~~	m		www.	Ann		Min Search
											Pk-Pk Search
Start 3 #Res B	0 MHz W 100 I	kHz		#VE	3W 300	kHz	Sweej	o 100.5 i		1 GHz	More 1 of 2

Channel 01 (2412MHz)

🔆 Agil	ent										R T	. Display
Ref 20	dBm			Atten 3	30 dB				IV.	1 kr1 2.4 0.904	4 GHz IdBm	
Peak Log												Full Screen
10 dB/	:	L >										Display Line -19.10 dBm <u>On Of</u>
DI 19.1 dBm												
												Limits
V1 S2 S3 FC AA	www	5	nfrem	m	~~~~~~	~~~~	mm	- And Marriage	mm		nin	Active Fctn Position Center
												Title
Start 1 ¥Res B			(Hz		 #VF	3W 300	kHz	Swei	ep 2.486		5 GHz	Preferences

				U			(2757				
🔆 Agi	lent								F		Peak Search
Ref 20 Peak Log	dBm		Atten 3	30 dB				Mk	r1 641. -44.77		Meas Tools
10 dB/											Next Peak
DI -19.2											Next Pk Right
dBm											Next Pk Left
M1 S2 S3 FC AA	-	unm		mkn	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	mm				ing wh	Min Search
											Pk-Pk Search
Start 31 #Res B	D MHz W 100 k	Hz		#VE	3W 300	kHz	Swee	p 100.5 i		1 GHz	More 1 of 2

🔆 Agil	lent			1		0				F	г. 7 Т	Diaplay
Ref 20				Atten	30 dB				M	lkr1 2.4		- Display
Peak Log												Full Screen
10 dB/	1 ¢											Display Line -19.15 dBm <u>On Of</u> f
DI -19.2 dBm												
uDin												Limits
V1 S2 S3 FC AA	الرسر	~	*~~~~	m	um Marcalan		hanan.	www.	when	vere-seleer	, www.	Active Fctn Position Center
												Title
Start 1 #Res B		0 k	Hz		#V	BW 300	kHz	Swe	ep 2.486		5 GHz	Preferences

				U	manni	CIII	(2402	wii 12)			
🔆 Agi	lent									<u>२ </u>	Peak Search
Ref 20 Peak Log	dBm		Atten 3	30 dB				Mk	rr1 910. -44	3 MHz dBm	Meas Tools •
10 dB/											Next Peak
DI -18.6											Next Pk Right
dBm											Next Pk Left
M1 S2 S3 FC AA	y man	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	un m	www.	mm	, waaraan	m	and the second		\$	Min Search
											Pk-Pk Search
Start 3 #Res B	0 MHz W 100 F	dHz		 #VE	3W 300	kHz	Sweej	o 100.5 i		1 GHz	More 1 of 2

Channel 11 (2462MHz)

			1	X	N	P					41	-
🔆 Agi	lent										RΤ	- Display
Ref 20	dBm			Atten	30 dB				M	1kr1 2.4 1.356	l4 GHz 5 dBm	
Peak Log												Full Screen
10 dB/	1 <											Display Line -18.64 dBm <u>On Off</u>
DI -18.6 dBm												
u.D.III												Limits
V1 S2 S3 FC AA	ww	h	munt	m	na na mana	anne		h		nnn	town the	Active Fctn Position Center
												Title
Start 1 #Res B			Hz		 #VI	3W 300	kHz	Swe	ep 2.486		25 GHz	Preferences

Product	:	Tablet PC
Test Item	•••	RF Antenna Conducted Spurious
Test Mode	• •	Mode 3: Transmit by 802.11n (20MHz)

				C	IIaIIII	erur	(2412	IVITIZ)			
🔆 Agi	ilent								F	<u>२ </u>	Peak Search
Ref 20 Peak Log	dBm		Atten	30 dB				Mk	a1 447. -44.91		Meas Tools •
10 dB/											Next Peak
DI -18.8											Next Pk Right
dBm											Next Pk Left
M1 S2 S3 FC AA	American	uhauh					when	n de la constru	en menten	~~~~	Min Search
											Pk-Pk Search
Start 3 #Res B	0 MHz 8W 100 I	kHz		 #VE	3W 300	kHz	Swee	p 100.5 i		1 GHz	More 1 of 2

Channel 01 (2412MHz)

🔆 Agil	ent					101 105 10			HN	F	₹Т	. Display
Ref 20	dBm			Atten 3	0 dB					lkr1 2.4 1.171	4 GHz dBm	
Peak Log												Full Screen
10 dB/												Display Line -18.83 dBm <u>On Off</u>
DI -18.8												
dBm												Limits
V1 S2 S3 FC AA	von	~	www	i	man	hard	· · · · · ·	marnar	an a	filmestament	ytere at	Active Fctn Position Center
												Title
Start 1 #Res B			·H7		#\/F	3W 300	kH2	Swa	ep 2.486		5 GHz	Preferences

				•			(·····-,			
🔆 Agi	lent								F	<u> २ Т</u>	Peak Search
			_					Mk	ar1 466.		
Ref 20 Peak Log	dBm		Atten 3	30 dB					-44.62	dBm	Meas Tools •
10 dB/											Next Peak
DI -18.7											Next Pk Right
dBm											Next Pk Left
M1 S2 S3 FC AA	mm	uum					allan kanana pe	uhamituk	warray		Min Search
											Pk-Pk Search
Start 31 #Res B	D MHz W 100 I	(Hz		#VE	3W 300	kHz	Swee	o 100.5 i		1 GHz	More 1 of 2

🔆 Agil	ent					 	ħ/	1kr1 2.4	R Т И GHz	- Display
Ref 20	dBm		Atten	30 dB		 			dBm	Eull Care on
Peak .og										Full Screen
0 18/	1									Display Line -18.73 dBm <u>On O</u>
) 18.7										
lBm										Limit
/1 S2 53 FC AA	mmi	<u>^</u>	mann	mona	ananan	 www.	-	mim	man	Active Fctn Position Cente
										Title
Start 1 {Res B		0.141-			BW 300	 	ep 2.486		5 GHz	Preferences

							(· • • • • • • • • • • • • • • • • • • •			
🔆 Agi	lent									<u> </u>	Peak Search
Ref 20 Peak Log	dBm		Atten	30 dB				Mi	ar1 638. _44.61		Meas Tools
10 dB/											Next Peak
DI -19.0											Next Pk Right
dBm											Next Pk Left
M1 S2 S3 FC AA	man		aga da		mu		- Annak			who m	Min Search
											Pk-Pk Search
Start 3 #Res B	0 MHz W 100 ki	Hz		 #VE	3W 300	kHz	Swee	p 100.5		1 GHz	More 1 of 2

Channel 11 (2462MHz)

🔆 Agi	lent	//								F	RΤ	Display
Ref 20	dBm			Atten	30 dB				4 GHz)dBm			
Peak Log												Full Screen
10 dB/	ı ¢											Display Line -19.04 dBm <u>On Off</u>
DI -19.0 dBm												
aom												Limits
V1 S2 S3 FC AA	~~	5	mana	harden	~~~~		at a second	met man	www.	hum	March	Active Fctn Position Center
												Title
Start 1 #Res B			(H7		#\/	BW 300	kHz	Swe	ep 2.486		5 GHz	Preferences

Product	:	Tablet PC
Test Item	:	RF Antenna Conducted Spurious
Test Mode	:	Mode 4: Transmit by 802.11n (40MHz)

				L L	nann	el 03	(2422	IVIHZ)			
🔆 Agi	lent									R T	Peak Search
Ref 20 d Peak Log	dBm		Atten 3	30 dB			Mkr1 558.7 Ml 44.54 dBr				Meas Tools •
10 dB/											Next Peak
DI -20.0											Next Pk Right
dBm						1					Next Pk Left
M1 S2 S3 FC AA		ang di seran dhi	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			Ý	Marin Carlos	mon	utenne	hhinn	Min Search
											Pk-Pk Search
Start 31 #Res B	0 MHz W 100 I	dHz		# V E	3W 300	kHz	Swee	p 100.5 i		1 GHz	More 1 of 2

Channel 03 (2422MHz)

🔆 Agil	lent		<u> </u>		SIZ				HN		к т	- Display
Ref 20	dBm			Atten 3	30 dB				M	lkr1 2.4 0.007	l4 GHz 7 dBm	Dispidy
Peak Log												Full Screen
10 dB/	ı Ç											Display Line -19.99 dBm <u>On Off</u>
DI -20.0 dBm												
u.D.m.												Limits
V1 S2 S3 FC AA	un	m	uhmenen.		m	-v~	m	mention	min	mhan	m	Active Fctn Position Center
												Title
Start 1 #Res B			Hz		 #VE	300 W	kHz	Swe	ep 2.486		25 GHz	Preferences

				U U	inaini		(2457	····· · ~)			
🔆 Agi	lent									<u> </u>	Peak Search
Ref 20 Peak Log	dBm		Atten	30 dB				Mk	ar1 689. -43.85		Meas Tools
10 dB/											Next Peak
DI -20.3											Next Pk Right
dBm							1				Next Pk Left
M1 S2 S3 FC AA	warm				m	muter	mnl	~~~		uta ser van	Min Search
											Pk-Pk Search
Start 31 #Res B	D MHz W 100 k	Hz		#VE	3W 300	kHz	Sweep	o 100.5 i	-	1 GHz	More 1 of 2

🔆 Agil	ent								F	· · ·	Display
Ref 20	dBm		Atten 3	30 dB				M	lkr1 2.4 -0.26	4 GHz dBm	
Peak Log											Full Screen
10 dB/											Display Line -20.26 dBm <u>On Off</u>
DI -20.3 dBm											
uom											Limits
V1 S2 S3 FC AA	lu	hanna	menne	n marine	a na sa		wwwh	min		,	Active Fctn Position Center
											Title
Start 1 #Res B		 kHz		#\/F	3W 300	kH7	Swei	ep 2.486		5 GHz	Preferences

			v	nann						
🔆 Agi	lent							<u>₹</u>	Peak Search	
Ref 20 Peak	dBm	Atte	en 30 dB				Mk	ar1 388. -44.58		Meas Tools
Log 10 dB/										Next Peak
DI -19.3 dBm										Next Pk Right
uom										Next Pk Left
M1 S2 S3 FC AA		~~~~		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	· · · · · · · · · · · · · · · · · · ·		hum	with	Min Search
										Pk-Pk Search
Start 31 #Res B	D MHz W 100 kHz		#VE	300 I	кНz	Sweep	o 100.5 i		1 GHz	More 1 of 2

Channel 09 (2452MHz)

🔆 Agil	ent			11.4					F	R Т	Display
Ref 20	dBm		Atten 3	0 dB				ľ	lkr1 2.4 0.654	4 GHz dBm	
Peak Log											Full Screen
10 dB/											Display Line -19.35 dBm <u>On Off</u>
DI -19.3 dBm											
uDin											Limits
V1 S2 S3 FC AA	mulh	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ad the states	1- ⁴⁴ 1-4-4	ů	mm	-	hen an	undrana	yunn	Active Fctn Position Center
											Title
Start 1 #Res B		kHz		#VE	W 300	kHz	Swei	ep 2.486	Stop 2 is	5 GHz	Preferences

4.8. Antenna Requirement

STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, 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.

And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance.

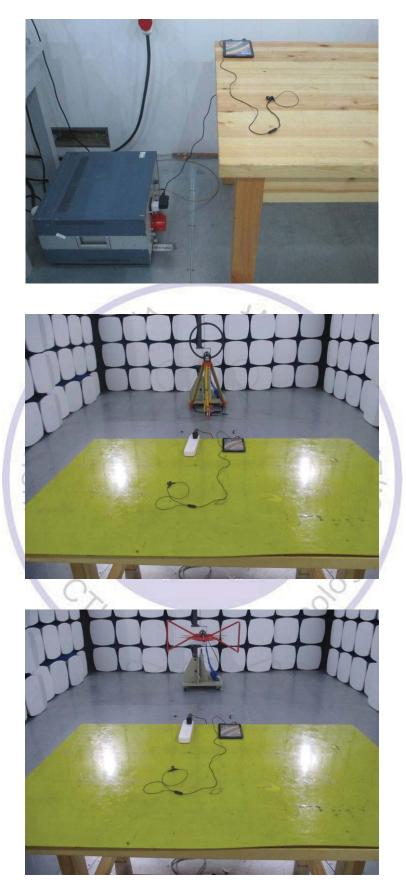
The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

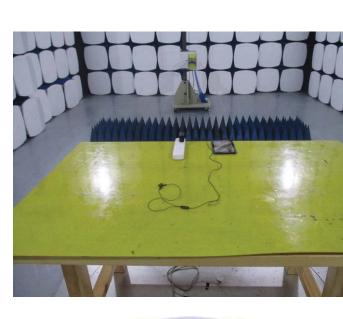
ANTENNA CONNECTED CONSTRUCTION

The directional gains of antenna used for transmitting is 0.5 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.



5. Test Setup Photos of the EUT







6. External and Internal Photos of the EUT

External Photos of EUT

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Internal Photos of EUT

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