

FCC Test Report

Report No.: RF160304C08

FCC ID: MSQP00C

Test Model: P00C

Received Date: Mar. 04, 2016

Test Date: Mar. 10, 2016 ~ Mar. 17, 2016

Issued Date: Mar. 31, 2016

Applicant: ASUSTek COMPUTER INC.

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Table of Contents

Release Control Record	4
1 Certificate of Conformity	5
2 Summary of Test Results.....	6
2.1 Measurement Uncertainty.....	6
2.2 Modification Record	6
3 General Information	7
3.1 General Description of EUT	7
3.2 Description of Test Modes.....	9
3.2.1 Test Mode Applicability and Tested Channel Detail.....	10
3.3 Duty Cycle of Test Signal	12
3.4 Description of Support Units	13
3.4.1 Configuration of System under Test	13
3.5 General Description of Applied Standards.....	13
4 Test Types and Results	14
4.1 Radiated Emission and Bandedge Measurement	14
4.1.1 Limits of Radiated Emission and Bandedge Measurement	14
4.1.2 Test Instruments	15
4.1.3 Test Procedures.....	16
4.1.4 Deviation from Test Standard	16
4.1.5 Test Set Up	17
4.1.6 EUT Operating Conditions.....	17
4.1.7 Test Results	18
4.2 Conducted Emission Measurement.....	33
4.2.1 Limits of Conducted Emission Measurement	33
4.2.2 Test Instruments	33
4.2.3 Test Procedures.....	34
4.2.4 Deviation from Test Standard	34
4.2.5 Test Setup.....	34
4.2.6 EUT Operating Conditions.....	34
4.2.7 Test Results	35
4.3 6 dB Bandwidth Measurement.....	39
4.3.1 Limits of 6 dB Bandwidth Measurement.....	39
4.3.2 Test Setup.....	39
4.3.3 Test Instruments	39
4.3.4 Test Procedure	39
4.3.5 Deviation from Test Standard	39
4.3.6 EUT Operating Conditions.....	39
4.3.7 Test Result	40
4.4 Conducted Output Power Measurement	42
4.4.1 Limits of Conducted Output Power Measurement.....	42
4.4.2 Test Setup.....	42
4.4.3 Test Instruments	42
4.4.4 Test Procedures.....	42
4.4.5 Deviation from Test Standard	42
4.4.6 EUT Operating Conditions.....	42
4.4.7 Test Results	43
4.5 Power Spectral Density Measurement	44
4.5.1 Limits of Power Spectral Density Measurement.....	44
4.5.2 Test Setup.....	44
4.5.3 Test Instruments	44
4.5.4 Test Procedure	44
4.5.5 Deviation from Test Standard	44
4.5.6 EUT Operating Condition	44

4.5.7 Test Results	45
4.6 Conducted Out of Band Emission Measurement	47
4.6.1 Limits of Conducted Out of Band Emission Measurement.....	47
4.6.2 Test Setup.....	47
4.6.3 Test Instruments	47
4.6.4 Test Procedure	47
4.6.5 Deviation from Test Standard	47
4.6.6 EUT Operating Condition	47
4.6.7 Test Results	48
5 Pictures of Test Arrangements.....	56
Appendix – Information on the Testing Laboratories	57



A D T

Release Control Record

Issue No.	Description	Date Issued
RF160304C08	Original Release	Mar. 31, 2016

1 Certificate of Conformity

Product: ASUS Tablet

Brand: ASUS

Test Model: P00C

Sample Status: Production Unit

Applicant: ASUSTek COMPUTER INC.

Test Date: Mar. 10, 2016 ~ Mar. 17, 2016

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10:2013

The above equipment 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 : Evonne Liu, **Date:** Mar. 31, 2016
Evonne Liu / Specialist

Approved by : Stanley Wu, **Date:** Mar. 31, 2016
Stanley Wu / Assistant Manager

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -6.23 dB at 0.23000 MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -5.84 dB at 57.16 MHz.
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
15.247(b)	Conducted power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

The listed uncertainties are the worst case uncertainty for the entire range of measurement. Please note that the uncertainty values are provided for informational purposes only and are not used in determining the PASS/FAIL results.

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.44 dB
Radiated Emissions up to 1 GHz	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	ASUS Tablet
Brand	ASUS
Test Model	P00C
Status of EUT	Production Unit
Power Supply Rating	3.85Vdc (Battery) 5.2Vdc (Adapter) 5.0Vdc (Host equipment)
Modulation Type	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
Modulation Technology	DSSS, OFDM
Transfer Rate	802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps 802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n (HT20): up to MCS7
Operating Frequency	2412 ~ 2462 MHz
Number of Channel	11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40)
Output Power	187.50 mW
Antenna Type	PIFA antenna with 1.98 dBi gain
Antenna Connector	N/A
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below

Note:

- The EUT provides 1 completed transmitter and 1 receiver.

Modulation Mode	TX Function
802.11b	1TX
802.11g	1TX
802.11n (HT20)	1TX
802.11n (HT40)	1TX

- The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter 1	ASUS	PA-1050-39	I/P: 100-240Vac, 50/60Hz, 0.25A O/P: 5.2Vdc, 1A
Adapter 2	ASUS	AS0102	I/P: 100-240Vac, 50/60Hz, 0.13A O/P: 5.2Vdc, 1A
Battery	Celxpert	C11P1517	3.85Vdc, 18Wh
USB Cable 1	HONGLIN	130-26314	0.9m shielded cable w/o core
USB Cable 2	LUXSHARE-ICT	L65U2009-CS-B	0.9m shielded cable w/o core
USB Cable 3	FOXCONN	CUBB04M-AS0D0-EF	0.9m shielded cable w/o core
LCD Panel 1	BOE	TV101WXM-NU1	10.1 inch
LCD Panel 2	CPT	CLAT101WR61W	10.1 inch
CPU	MEDIATEK SOC	C.S. MT8163V VFBGA-393 MP	393 Pin , 1.3GHz
Main Board	ASUS	Z300M_MB	--
BT/WLAN Module	MTK	MT6625L	--

Product	Brand	Model	Description
Camera 1 (Front)	CHICONY	CIFF219	2M
Camera 2 (Back)	CHICONY	CJAF527	5M
Camera 3 (Front)	SUNWIN	SW08572E221B-VA	2M
Camera 4 (Back)	SUNWIN	SWCN5725602A-VA	5M
eMMC 1	SAMSUNG	KLMCG4JENB-B041	64G
eMMC 2	HYNIX	H26M78208CMR	64G
eMMC 3	SAMSUNG	KLMBG2JENB-B041	32G
eMMC 4	HYNIX	H26M64208EMR	32G
eMMC 5	SAMSUNG	KLMAG1JENB-B041	16G
eMMC 6	HYNIX	H26M52208FPR	16G
eMMC 7	SAMSUNG	KLM8G1GEND-B031	8G
eMMC 8	HYNIX	H26M41204HPR	8G
DDR 1	MICRON	MT41K512M8DA-107:P	2G
DDR 2	SAMSUNG	K4B4G0846E-BYK0	2G

3. The EUT contains two Sample listed as below.

Component	Brand	Model	Specification	Sample	
				A	B
Battery	Celxpert	C11P1517	3.85Vdc, 18Wh	V	V
LCD Panel 1	BOE	TV101WXM-NU1	10.1 inch	V	
LCD Panel 2	CPT	CLAT101WR61W	10.1 inch		V
CPU	MEDiatek SOC	C.S. MT8163V VFBGA-393 MP	393 Pin , 1.3GHz	V	V
Main Board	ASUS	Z300M_MB	--	V	V
BT/WLAN Module	MTK	MT6625L	--	V	V
Camera 1 (Front)	CHICONY	CIFF219	2M	V	
Camera 2 (Back)	CHICONY	CJAF527	5M	V	
Camera 3 (Front)	SUNWIN	SW08572E221B-VA	2M		V
Camera 4 (Back)	SUNWIN	SWCN5725602A-VA	5M		V
eMMC 1	SAMSUNG	KLMCG4JENB-B041	64G	V	
eMMC 2	HYNIX	H26M78208CMR	64G		V
DDR 1	MICRON	MT41K512M8DA-107:P	2G	V	
DDR 2	SAMSUNG	K4B4G0846E-BYK0	2G		V

4. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

11 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

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

7 channels are provided for 802.11n (HT40):

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

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE≥1G	RE<1G	PLC	APCM	
A	√	√	√	√	Sample A
B	√	√	√	-	Sample B

Where **RE≥1G**: Radiated Emission above 1 GHz

RE<1G: Radiated Emission below 1 GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE:

- The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.
- "-" means no effect.

Radiated Emission Test (Above 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	MCS0
B	802.11n (HT40)	1 to 11	9	OFDM	BPSK	MCS0

Radiated Emission Test (Below 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A, B	802.11n (HT40)	1 to 11	9	OFDM	BPSK	MCS0

Power Line Conducted Emission Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A, B	802.11n (HT40)	1 to 11	9	OFDM	BPSK	MCS0

Bandedge Measurement:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A	802.11b	1 to 11	1, 11	DSSS	DBPSK	1.0
	802.11g	1 to 11	1, 11	OFDM	BPSK	6.0
	802.11n (HT20)	1 to 11	1, 11	OFDM	BPSK	MCS0
	802.11n (HT40)	3 to 9	3, 9	OFDM	BPSK	MCS0

Antenna Port Conducted Measurement:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A	802.11b	1 to 11	1, 6, 11	DSSS	DBPSK	1.0
	802.11g	1 to 11	1, 6, 11	OFDM	BPSK	6.0
	802.11n (HT20)	1 to 11	1, 6, 11	OFDM	BPSK	MCS0
	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	MCS0

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE≥1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Toby Tian
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Toby Tian
PLC	25 deg. C, 65 % RH	120 Vac, 60 Hz	Toby Tian
APCM	25 deg. C, 65 % RH	3.85 Vdc	Taylor Liu

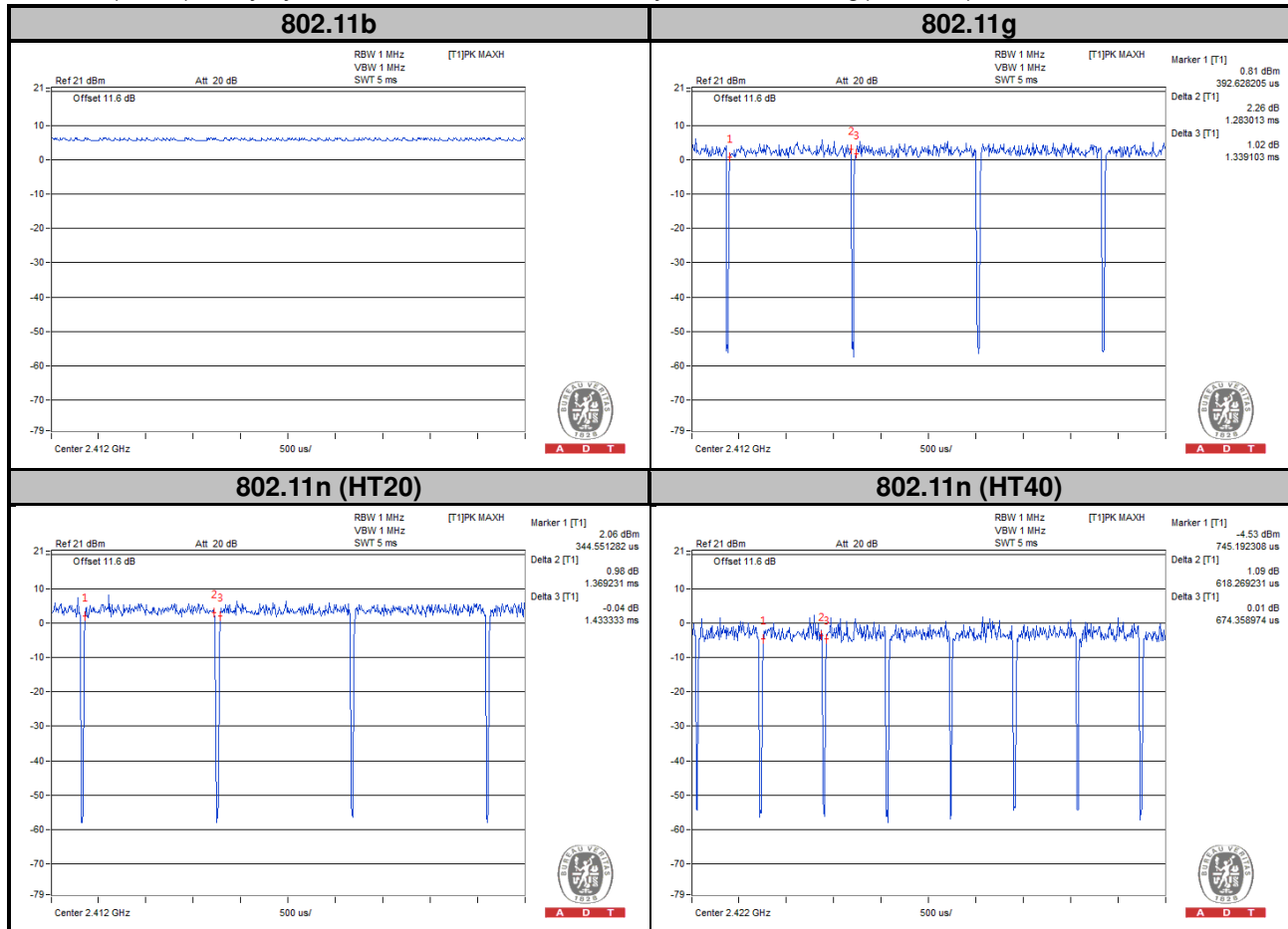
3.3 Duty Cycle of Test Signal

802.11b: Duty cycle of test signal is $\geq 98\%$, duty factor is not required.

802.11g: Duty cycle = $1.283/1.339 = 0.958$, Duty factor = $10 * \log(1/0.958) = 0.18$

802.11n (HT20): Duty cycle = $1.369/1.433 = 0.955$, Duty factor = $10 * \log(1/0.955) = 0.19$

802.11n (HT40): Duty cycle = $0.618/0.674 = 0.916$, Duty factor = $10 * \log(1/0.916) = 0.38$



3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

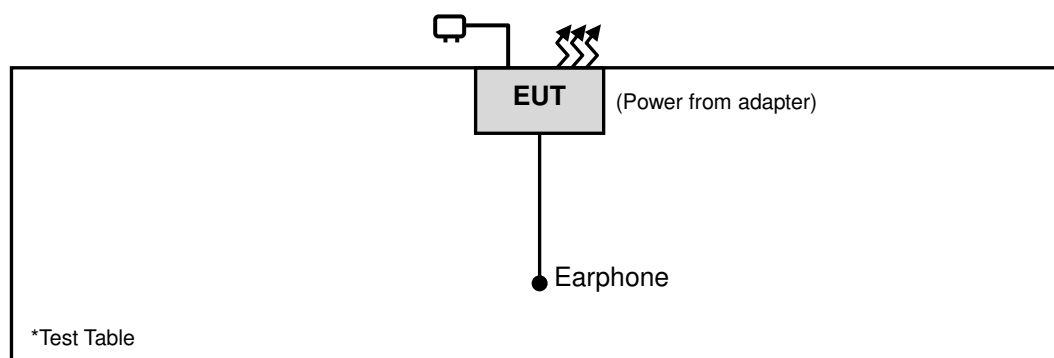
No.	Product	Brand	Model No.	Serial No.	FCC ID
1.	Earphone	N/A	N/A	N/A	N/A

No.	Signal Cable Description Of The Above Support Units
1.	N/A

Note:

1. All power cords of the above support units are non-shielded (1.8m).

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.247)

558074 D01 DTS Meas Guidance v03r04

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

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.

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20 dB below the highest level of the desired power:

Frequencies (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

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Jan. 21, 2016	Jan. 20, 2017
Spectrum Analyzer Agilent	N9010A	MY52220314	Sep. 03, 2015	Sep. 02, 2016
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 17, 2015	Dec. 16, 2016
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Jan. 07, 2016	Jan. 06, 2017
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Jan. 04, 2016	Jan. 03, 2017
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Jan. 08, 2016	Jan. 07, 2017
Loop Antenna	EM-6879	269	Jul. 31, 2015	Jul. 30, 2016
Preamplifier EMCI	EMC 012645	980115	Dec. 21, 2015	Dec. 20, 2016
Preamplifier EMCI	EMC 184045	980116	Dec. 21, 2015	Dec. 20, 2016
Preamplifier EMCI	EMC 330H	980112	Dec. 28, 2015	Dec. 27, 2016
Power Meter Anritsu	ML2495A	1232002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor Anritsu	MA2411B	1207325	Sep. 21, 2015	Sep. 20, 2016
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 12, 2015	Oct. 11, 2016
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 12, 2015	Oct. 11, 2016
RF Coaxial Cable Worken	8D-FB	Cable-Ch10-01	Oct. 12, 2015	Oct. 11, 2016
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	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 HwaYa Chamber 10.

3. The horn antenna and preamplifier (model: EMC 184045) are used only for the measurement of emission frequency above 1 GHz if tested.

4. The FCC Site Registration No. is 690701.

5. The IC Site Registration No. is IC7450F-10.

4.1.3 Test Procedures

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

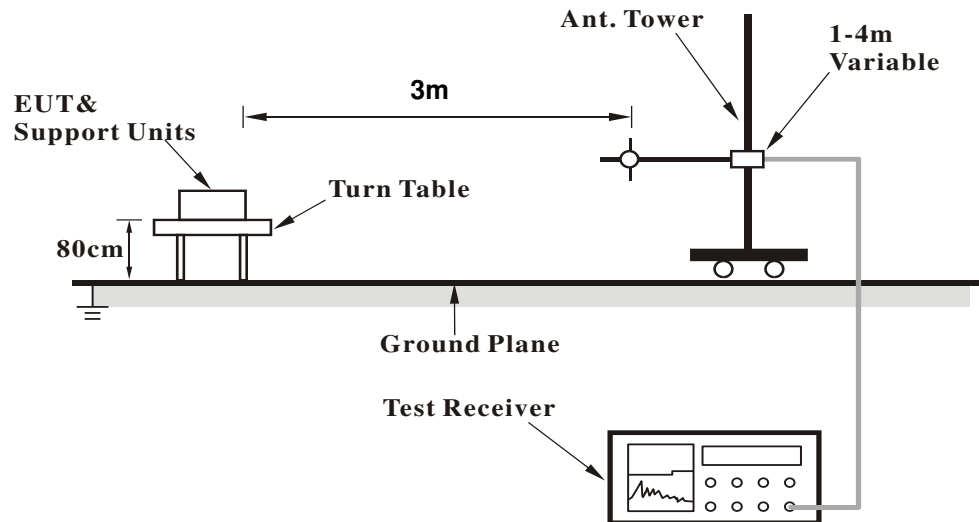
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for RMS Average (Duty cycle < 98 %) for Average detection (AV) at frequency above 1 GHz, then the measurement results was added to a correction factor ($10 \log(1/\text{duty cycle})$).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10 Hz (Duty cycle $\geq 98 \%$) for Average detection (AV) at frequency above 1 GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

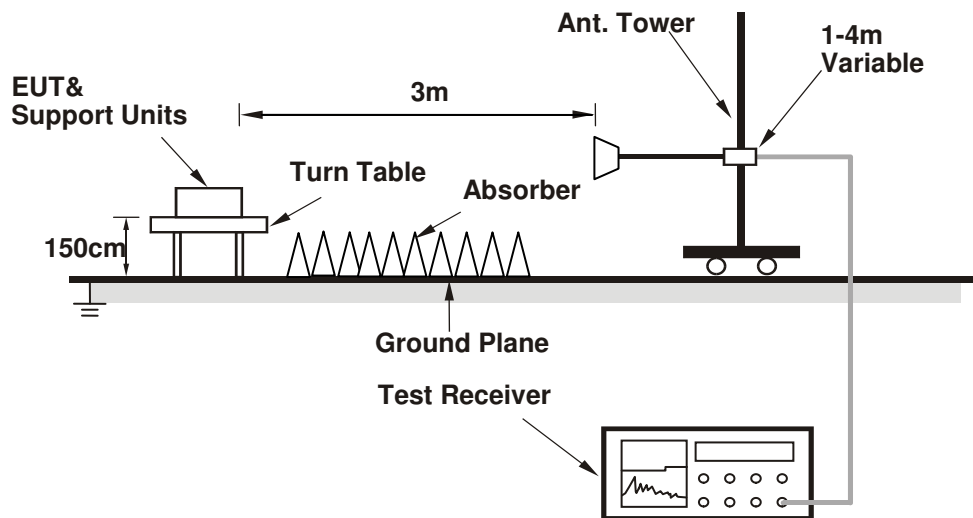
No deviation.

4.1.5 Test Set Up

<Frequency Range below 1 GHz>



<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

- Placed the EUT on a testing table.
- Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

Above 1 GHz Data :

SAMPLE A

802.11b

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2314	34.32	41.09	54	-19.68	26.67	4.03	37.47	120	212	Average
2314	56.45	63.22	74	-17.55	26.67	4.03	37.47	120	212	Peak
2412	96.46	102.93			26.96	4.09	37.52	120	212	Average
2412	100.95	107.42			26.96	4.09	37.52	120	212	Peak
2494	34.13	40.02	54	-19.87	27.2	4.16	37.25	120	212	Average
2494	57.26	63.15	74	-16.74	27.2	4.16	37.25	120	212	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2380	33.18	39.74	54	-20.82	26.86	4.08	37.5	100	125	Average
2380	57.24	63.8	74	-16.76	26.86	4.08	37.5	100	125	Peak
2412	92.09	98.56			26.96	4.09	37.52	100	125	Average
2412	96.39	102.86			26.96	4.09	37.52	100	125	Peak
2500	34.53	40.42	54	-19.47	27.2	4.16	37.25	100	125	Average
2500	57.01	62.9	74	-16.99	27.2	4.16	37.25	100	125	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2412 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2360	32.95	39.58	54	-21.05	26.81	4.05	37.49	118	214	Average
2360	56.4	63.03	74	-17.6	26.81	4.05	37.49	118	214	Peak
2437	98.13	104.41			27.06	4.12	37.46	118	214	Average
2437	102.52	108.8			27.06	4.12	37.46	118	214	Peak
2494	34.26	40.15	54	-19.74	27.2	4.16	37.25	118	214	Average
2494	57.61	63.5	74	-16.39	27.2	4.16	37.25	118	214	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2352	32.7	39.33	54	-21.3	26.81	4.05	37.49	100	130	Average
2352	56.83	63.46	74	-17.17	26.81	4.05	37.49	100	130	Peak
2437	92	98.28			27.06	4.12	37.46	100	130	Average
2437	96.51	102.79			27.06	4.12	37.46	100	130	Peak
2492	33.42	39.31	54	-20.58	27.2	4.16	37.25	100	130	Average
2492	56.54	62.43	74	-17.46	27.2	4.16	37.25	100	130	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2437 MHz: Fundamental frequency.



EUT Test Condition		Measurement Detail	
Channel	Channel 11	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2374	32.83	39.4	54	-21.17	26.86	4.07	37.5	184	219	Average
2374	56.69	63.26	74	-17.31	26.86	4.07	37.5	184	219	Peak
2462	97.61	103.77			27.1	4.13	37.39	184	219	Average
2462	101.93	108.09			27.1	4.13	37.39	184	219	Peak
2498	35.93	41.82	54	-18.07	27.2	4.16	37.25	184	219	Average
2498	56.82	62.71	74	-17.18	27.2	4.16	37.25	184	219	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	32.77	39.3	54	-21.23	26.91	4.08	37.52	100	130	Average
2390	56.87	63.4	74	-17.13	26.91	4.08	37.52	100	130	Peak
2462	91.13	97.29			27.1	4.13	37.39	100	130	Average
2462	95.33	101.49			27.1	4.13	37.39	100	130	Peak
2500	33.72	39.61	54	-20.28	27.2	4.16	37.25	100	130	Average
2500	56.41	62.3	74	-17.59	27.2	4.16	37.25	100	130	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2462 MHz: Fundamental frequency.

802.11g

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	40.6	47.13	54	-13.4	26.91	4.08	37.52	104	221	Average
2390	59.71	66.24	74	-14.29	26.91	4.08	37.52	104	221	Peak
2412	95.56	102.03			26.96	4.09	37.52	104	221	Average
2412	105.12	111.59			26.96	4.09	37.52	104	221	Peak
2490	38.6	44.56	54	-15.4	27.2	4.16	37.32	104	221	Average
2490	56.71	62.67	74	-17.29	27.2	4.16	37.32	104	221	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	36.5	43.03	54	-17.5	26.91	4.08	37.52	218	42	Average
2390	56.41	62.94	74	-17.59	26.91	4.08	37.52	218	42	Peak
2412	88.84	95.31			26.96	4.09	37.52	218	42	Average
2412	98.42	104.89			26.96	4.09	37.52	218	42	Peak
2500	34.9	40.79	54	-19.1	27.2	4.16	37.25	218	42	Average
2500	56.19	62.08	74	-17.81	27.2	4.16	37.25	218	42	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2412 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2334	35.35	42.06	54	-18.65	26.72	4.04	37.47	107	214	Average
2334	56.14	62.85	74	-17.86	26.72	4.04	37.47	107	214	Peak
2437	96.21	102.49			27.06	4.12	37.46	107	214	Average
2437	105.87	112.15			27.06	4.12	37.46	107	214	Peak
2490	38.76	44.72	54	-15.24	27.2	4.16	37.32	107	214	Average
2490	56.97	62.93	74	-17.03	27.2	4.16	37.32	107	214	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2384	33.69	40.25	54	-20.31	26.86	4.08	37.5	240	42	Average
2384	55.92	62.48	74	-18.08	26.86	4.08	37.5	240	42	Peak
2437	89.12	95.4			27.06	4.12	37.46	240	42	Average
2437	98.72	105			27.06	4.12	37.46	240	42	Peak
2500	34.8	40.69	54	-19.2	27.2	4.16	37.25	240	42	Average
2500	56.65	62.54	74	-17.35	27.2	4.16	37.25	240	42	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2437 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 11	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2344	34.26	40.94	54	-19.74	26.77	4.04	37.49	102	213	Average
2344	55.77	62.45	74	-18.23	26.77	4.04	37.49	102	213	Peak
2462	95.5	101.66			27.1	4.13	37.39	102	213	Average
2462	105.12	111.28			27.1	4.13	37.39	102	213	Peak
2484	44.91	50.93	54	-9.09	27.15	4.15	37.32	102	213	Average
2484	65.38	71.4	74	-8.62	27.15	4.15	37.32	102	213	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2384	33.55	40.11	54	-20.45	26.86	4.08	37.5	211	28	Average
2384	55.95	62.51	74	-18.05	26.86	4.08	37.5	211	28	Peak
2462	88.85	95.01			27.1	4.13	37.39	211	28	Average
2462	98.48	104.64			27.1	4.13	37.39	211	28	Peak
2484	38.46	44.48	54	-15.54	27.15	4.15	37.32	211	28	Average
2484	58.61	64.63	74	-15.39	27.15	4.15	37.32	211	28	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2462 MHz: Fundamental frequency.

802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	41.81	48.34	54	-12.19	26.91	4.08	37.52	105	310	Average
2390	64.4	70.93	74	-9.6	26.91	4.08	37.52	105	310	Peak
2412	94.39	100.86			26.96	4.09	37.52	105	310	Average
2412	103.9	110.37			26.96	4.09	37.52	105	310	Peak
2492	36.85	42.74	54	-17.15	27.2	4.16	37.25	105	310	Average
2492	57.1	62.99	74	-16.9	27.2	4.16	37.25	105	310	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2376	37.47	44.04	54	-16.53	26.86	4.07	37.5	108	37	Average
2376	56.78	63.35	74	-17.22	26.86	4.07	37.5	108	37	Peak
2412	89.49	95.96			26.96	4.09	37.52	108	37	Average
2412	97.85	104.32			26.96	4.09	37.52	108	37	Peak
2492	35.34	41.23	54	-18.66	27.2	4.16	37.25	108	37	Average
2492	57.06	62.95	74	-16.94	27.2	4.16	37.25	108	37	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2412 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2372	34.88	41.45	54	-19.12	26.86	4.07	37.5	104	218	Average
2372	57.01	63.58	74	-16.99	26.86	4.07	37.5	104	218	Peak
2437	94.61	100.89			27.06	4.12	37.46	104	218	Average
2437	104.82	111.1			27.06	4.12	37.46	104	218	Peak
2496	37.22	43.11	54	-16.78	27.2	4.16	37.25	104	218	Average
2496	57.53	63.42	74	-16.47	27.2	4.16	37.25	104	218	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2334	33.41	40.12	54	-20.59	26.72	4.04	37.47	240	37	Average
2334	56.69	63.4	74	-17.31	26.72	4.04	37.47	240	37	Peak
2437	87.83	94.11			27.06	4.12	37.46	240	37	Average
2437	97.46	103.74			27.06	4.12	37.46	240	37	Peak
2498	34.73	40.62	54	-19.27	27.2	4.16	37.25	240	37	Average
2498	57	62.89	74	-17	27.2	4.16	37.25	240	37	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2437 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 11	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2384	34.04	40.6	54	-19.96	26.86	4.08	37.5	102	218	Average
2384	57.04	63.6	74	-16.96	26.86	4.08	37.5	102	218	Peak
2462	94.08	100.24			27.1	4.13	37.39	102	218	Average
2462	103.86	110.02			27.1	4.13	37.39	102	218	Peak
2484	43.33	49.35	54	-10.67	27.15	4.15	37.32	102	218	Average
2484	64.1	70.12	74	-9.9	27.15	4.15	37.32	102	218	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2352	33.35	39.98	54	-20.65	26.81	4.05	37.49	214	32	Average
2352	56.35	62.98	74	-17.65	26.81	4.05	37.49	214	32	Peak
2462	88.05	94.21			27.1	4.13	37.39	214	32	Average
2462	98.01	104.17			27.1	4.13	37.39	214	32	Peak
2484	39.32	45.34	54	-14.68	27.15	4.15	37.32	214	32	Average
2484	58.39	64.41	74	-15.61	27.15	4.15	37.32	214	32	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2462 MHz: Fundamental frequency.

802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 3	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	42.8	49.33	54	-11.2	26.91	4.08	37.52	105	326	Average
2390	62.63	69.16	74	-11.37	26.91	4.08	37.52	105	326	Peak
2422	94.02	100.36			27.01	4.11	37.46	105	326	Average
2422	103.65	109.99			27.01	4.11	37.46	105	326	Peak
2492	39.18	45.07	54	-14.82	27.2	4.16	37.25	105	326	Average
2492	57.16	63.05	74	-16.84	27.2	4.16	37.25	105	326	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2388	38.3	44.81	54	-15.7	26.91	4.08	37.5	284	117	Average
2388	56.86	63.37	74	-17.14	26.91	4.08	37.5	284	117	Peak
2422	87.89	94.23			27.01	4.11	37.46	284	117	Average
2422	97.21	103.55			27.01	4.11	37.46	284	117	Peak
2496	35.44	41.33	54	-18.56	27.2	4.16	37.25	284	117	Average
2496	56.18	62.07	74	-17.82	27.2	4.16	37.25	284	117	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2422 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	36.96	43.49	54	-17.04	26.91	4.08	37.52	170	327	Average
2390	56.81	63.34	74	-17.19	26.91	4.08	37.52	170	327	Peak
2437	93.8	100.08			27.06	4.12	37.46	170	327	Average
2437	103.88	110.16			27.06	4.12	37.46	170	327	Peak
2486	39.5	45.52	54	-14.5	27.15	4.15	37.32	170	327	Average
2486	57.97	63.99	74	-16.03	27.15	4.15	37.32	170	327	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	34.87	41.4	54	-19.13	26.91	4.08	37.52	284	116	Average
2390	57.01	63.54	74	-16.99	26.91	4.08	37.52	284	116	Peak
2437	87.67	93.95			27.06	4.12	37.46	284	116	Average
2437	96.94	103.22			27.06	4.12	37.46	284	116	Peak
2486	36.09	42.11	54	-17.91	27.15	4.15	37.32	284	116	Average
2486	56.7	62.72	74	-17.3	27.15	4.15	37.32	284	116	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2437 MHz: Fundamental frequency.

EUT Test Condition		Measurement Detail	
Channel	Channel 9	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2332	35.98	42.69	54	-18.02	26.72	4.04	37.47	170	326	Average
2332	56.41	63.12	74	-17.59	26.72	4.04	37.47	170	326	Peak
2452	93.94	100.14			27.06	4.13	37.39	170	326	Average
2452	103.28	109.48			27.06	4.13	37.39	170	326	Peak
2484	45.71	51.73	54	-8.29	27.15	4.15	37.32	170	326	Average
2484	67.63	73.65	74	-6.37	27.15	4.15	37.32	170	326	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2378	34.03	40.6	54	-19.97	26.86	4.07	37.5	250	115	Average
2378	56.89	63.46	74	-17.11	26.86	4.07	37.5	250	115	Peak
2452	87.07	93.27			27.06	4.13	37.39	250	115	Average
2452	96.54	102.74			27.06	4.13	37.39	250	115	Peak
2484	41.6	47.62	54	-12.4	27.15	4.15	37.32	250	115	Average
2484	64.05	70.07	74	-9.95	27.15	4.15	37.32	250	115	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2452 MHz: Fundamental frequency.

SAMPLE B

802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 9	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2322	34.35	41.07	54	-19.65	26.72	4.03	37.47	131	247	Average
2322	56.14	62.86	74	-17.86	26.72	4.03	37.47	131	247	Peak
2452	91.59	97.79			27.06	4.13	37.39	131	247	Average
2452	101.32	107.52			27.06	4.13	37.39	131	247	Peak
2486	46.33	52.35	54	-7.67	27.15	4.15	37.32	131	247	Average
2486	66.62	72.64	74	-7.38	27.15	4.15	37.32	131	247	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2332	35.01	41.72	54	-18.99	26.72	4.04	37.47	100	25	Average
2332	57.28	63.99	74	-16.72	26.72	4.04	37.47	100	25	Peak
2452	86.07	92.27			27.06	4.13	37.39	100	25	Average
2452	96.69	102.89			27.06	4.13	37.39	100	25	Peak
2484	43.07	49.09	54	-10.93	27.15	4.15	37.32	100	25	Average
2484	64.95	70.97	74	-9.05	27.15	4.15	37.32	100	25	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value
- 2462 MHz: Fundamental frequency.

9 kHz ~ 30 MHz DATA:

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

30 MHz ~ 1 GHz WORST-CASE DATA:

SAMPLE A

802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 9	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) QP (Quasi-Peak)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
57.16	25.35	43.68	40	-14.65	12.25	0.77	31.35	105	318	Peak
94.02	25.94	48.29	43.5	-17.56	8.6	1.01	31.96	102	303	Peak
205.57	25.03	45.78	43.5	-18.47	9.6	1.32	31.67	136	305	Peak
279.29	18.04	35.96	46	-27.96	12.34	1.58	31.84	120	298	Peak
382.11	19.67	34.87	46	-26.33	14.91	1.86	31.97	102	54	Peak
483.96	19.88	32.64	46	-26.12	17	2.06	31.82	105	219	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
57.16	34.16	52.49	40	-5.84	12.25	0.77	31.35	123	133	Peak
91.11	28.01	50.62	43.5	-15.49	8.38	0.97	31.96	140	96	Peak
137.67	19.88	38.21	43.5	-23.62	12.21	1.15	31.69	135	313	Peak
205.57	18.76	39.51	43.5	-24.74	9.6	1.32	31.67	121	199	Peak
448.07	19.61	33.32	46	-26.39	16.29	1.98	31.98	133	55	Peak
565.44	21.96	33.02	46	-24.04	18.81	2.2	32.07	114	332	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

SAMPLE B

802.11n (HT40)

EUT Test Condition		Measurement Detail	
Channel	Channel 9	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) QP (Quasi-Peak)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Toby Tian

Antenna Polarity & Test Distance: Horizontal at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
56.19	22.05	40.28	40	-17.95	12.35	0.76	31.34	139	113	Peak
94.02	22.74	45.09	43.5	-20.76	8.6	1.01	31.96	110	308	Peak
204.6	23	43.82	43.5	-20.5	9.56	1.31	31.69	129	284	Peak
280.26	17.1	34.97	46	-28.9	12.37	1.58	31.82	113	132	Peak
401.51	18.44	33.26	46	-27.56	15.37	1.91	32.1	137	124	Peak
515	20.59	32.39	46	-25.41	17.66	2.12	31.58	100	307	Peak
Antenna Polarity & Test Distance: Vertical at 3 m										
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Limit (dBuV/m)	Margin (dB)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
57.16	31.17	49.5	40	-8.83	12.25	0.77	31.35	118	62	Peak
91.11	26.04	48.65	43.5	-17.46	8.38	0.97	31.96	130	227	Peak
138.64	18.43	36.67	43.5	-25.07	12.27	1.15	31.66	126	90	Peak
202.66	17.85	38.78	43.5	-25.65	9.48	1.31	31.72	122	69	Peak
440.31	19.19	33.08	46	-26.81	16.14	1.97	32	136	64	Peak
635.28	22.3	32.05	46	-23.7	20.03	2.33	32.11	114	209	Peak

Remarks:

- Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor
Margin value = Emission level – Limit value

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Nov. 16, 2015	Nov. 15, 2016
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Dec. 26, 2015	Dec. 25, 2016
LISN ROHDE & SCHWARZ (EUT)	ESH3-Z5	835239/001	Feb. 26, 2016	Feb. 25, 2017
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Jul. 24, 2015	Jul. 23, 2016
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 HwaYa Shielded Room 1.

3. The VCCI Site Registration No. is C-2040.

4.2.3 Test Procedures

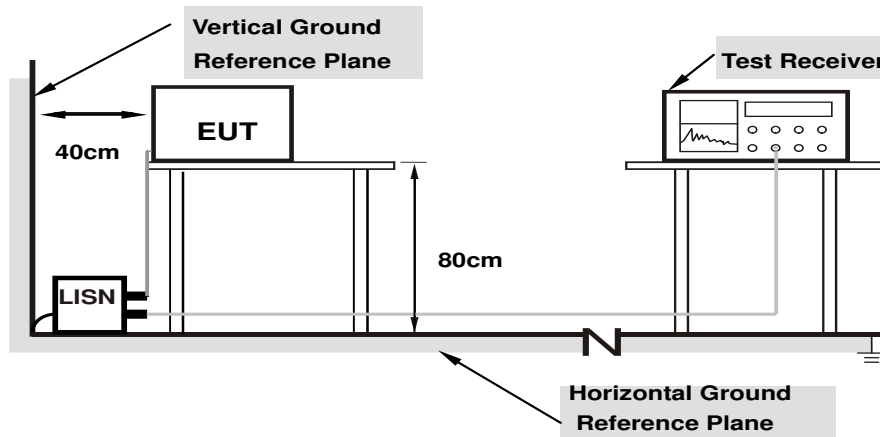
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Conditions

- Placed the EUT on a testing table.
- Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.2.7 Test Results

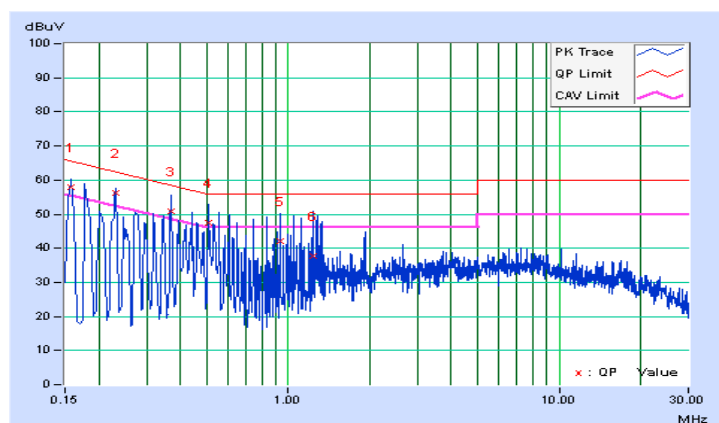
SAMPLE A

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Toby Tian	Test Date	2016/3/10

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15687	10.03	47.99	28.11	58.02	38.14	65.63	55.63	-7.61	-17.49
2	0.23000	10.12	46.10	25.12	56.22	35.24	62.45	52.45	-6.23	-17.21
3	0.37000	10.13	40.77	15.05	50.90	25.18	58.50	48.50	-7.60	-23.32
4	0.51000	10.16	37.17	14.09	47.33	24.25	56.00	46.00	-8.67	-21.75
5	0.93400	10.27	31.79	10.55	42.06	20.82	56.00	46.00	-13.94	-25.18
6	1.23800	10.29	27.46	11.87	37.75	22.16	56.00	46.00	-18.25	-23.84

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

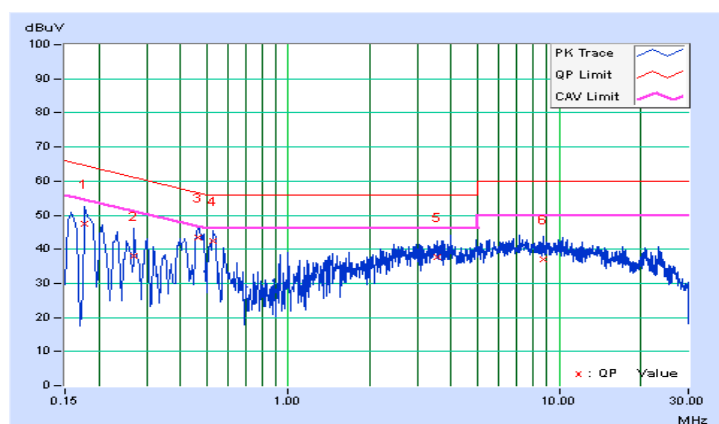


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Toby Tian	Test Date	2016/3/10

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17801	10.02	37.34	24.12	47.36	34.14	64.58	54.58	-17.21	-20.43
2	0.27000	10.08	27.89	15.74	37.97	25.82	61.12	51.12	-23.15	-25.30
3	0.46322	10.16	33.13	25.19	43.29	35.35	56.63	46.63	-13.35	-11.29
4	0.52705	10.17	32.15	24.68	42.32	34.85	56.00	46.00	-13.68	-11.15
5	3.55800	10.41	27.30	17.83	37.71	28.24	56.00	46.00	-18.29	-17.76
6	8.76200	10.58	26.33	18.25	36.91	28.83	60.00	50.00	-23.09	-21.17

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



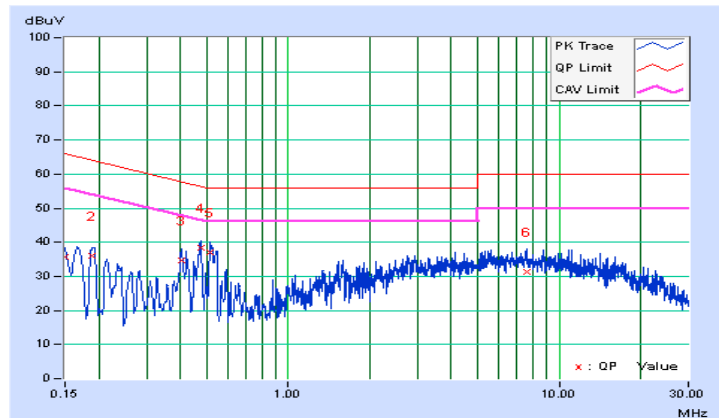
SAMPLE B

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Toby Tian	Test Date	2016/3/10

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	10.01	25.62	21.68	35.63	31.69	66.00	56.00	-30.37	-24.31
2	0.18963	10.10	25.92	14.22	36.02	24.32	64.05	54.05	-28.03	-29.73
3	0.40285	10.13	24.44	16.51	34.57	26.64	57.79	47.79	-23.22	-21.15
4	0.47434	10.15	28.33	19.31	38.48	29.46	56.44	46.44	-17.96	-16.98
5	0.51470	10.16	26.94	17.79	37.10	27.95	56.00	46.00	-18.90	-18.05
6	7.64600	10.61	20.69	12.71	31.30	23.32	60.00	50.00	-28.70	-26.68

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

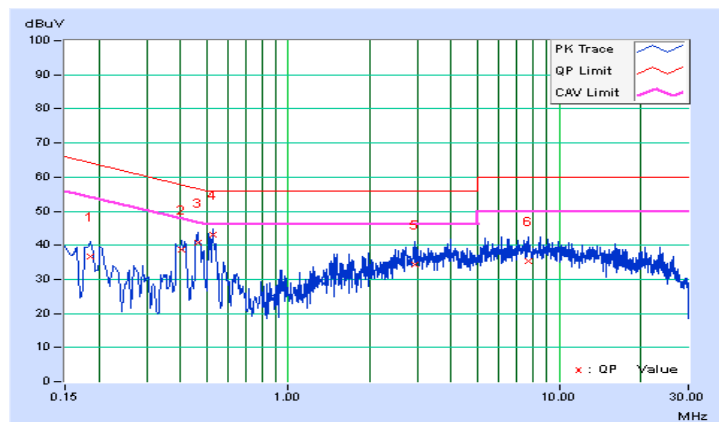


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Toby Tian	Test Date	2016/3/10

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18600	10.03	26.72	15.79	36.75	25.82	64.21	54.21	-27.46	-28.39
2	0.40605	10.15	28.73	21.30	38.88	31.45	57.73	47.73	-18.85	-16.28
3	0.46200	10.16	30.43	22.11	40.59	32.27	56.66	46.66	-16.07	-14.39
4	0.52600	10.17	32.87	25.32	43.04	35.49	56.00	46.00	-12.96	-10.51
5	2.92600	10.36	24.05	15.59	34.41	25.95	56.00	46.00	-21.59	-20.05
6	7.74200	10.55	24.94	17.02	35.49	27.57	60.00	50.00	-24.51	-22.43

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

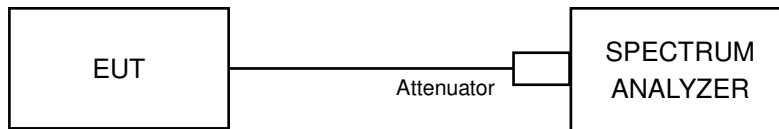


4.3 6 dB Bandwidth Measurement

4.3.1 Limits of 6 dB Bandwidth Measurement

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Result

802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	10.08	0.5	Pass
6	2437	10.09	0.5	Pass
11	2462	10.07	0.5	Pass

802.11g

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	15.96	0.5	Pass
6	2437	16.39	0.5	Pass
11	2462	16.40	0.5	Pass

802.11n (HT20)

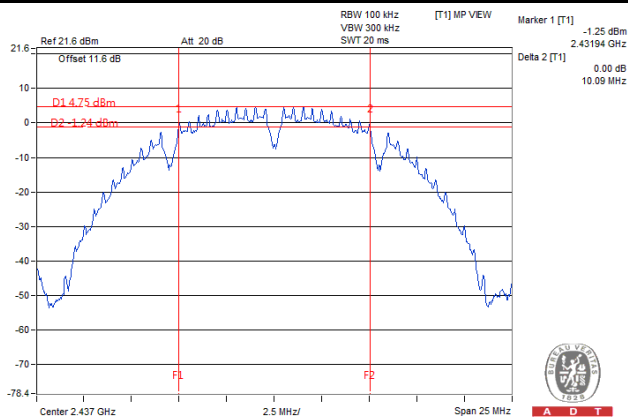
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.73	0.5	Pass
6	2437	17.64	0.5	Pass
11	2462	17.63	0.5	Pass

802.11n (HT40)

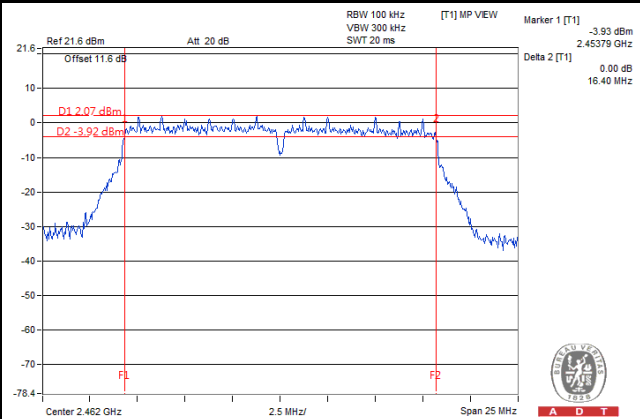
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	35.77	0.5	Pass
6	2437	35.62	0.5	Pass
9	2452	35.84	0.5	Pass

Spectrum Plot of Worst Value

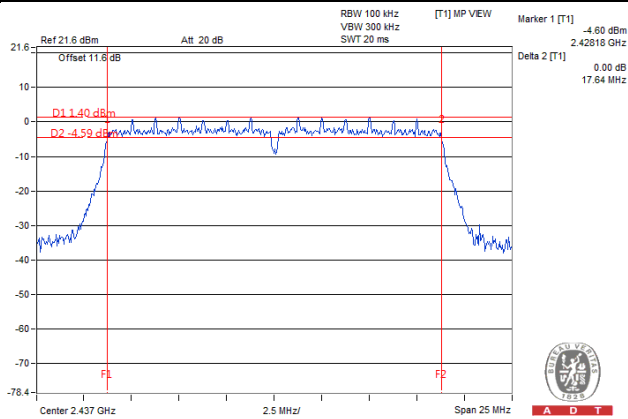
802.11b



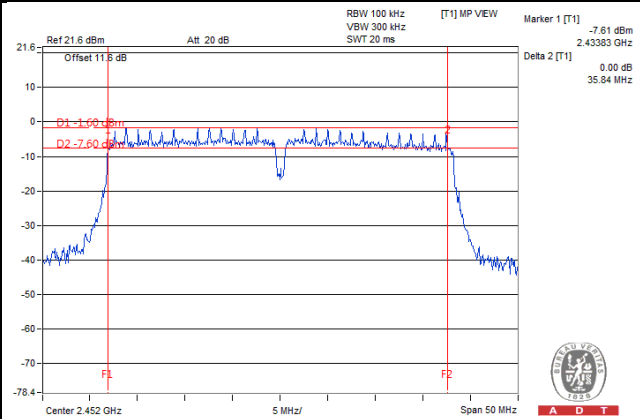
802.11g



802.11n (HT20)



802.11n (HT40)

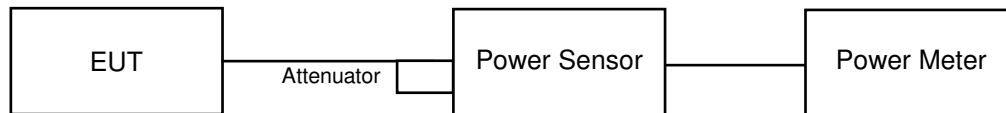


4.4 Conducted Output Power Measurement

4.4.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.4.7 Test Results

802.11b

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	34.43	15.37	30	Pass
6	2437	40.64	16.09	30	Pass
11	2462	36.48	15.62	30	Pass

802.11g

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	174.98	22.43	30	Pass
6	2437	182.39	22.61	30	Pass
11	2462	177.83	22.5	30	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	134.28	21.28	30	Pass
6	2437	158.85	22.01	30	Pass
11	2462	146.89	21.67	30	Pass

802.11n (HT40)

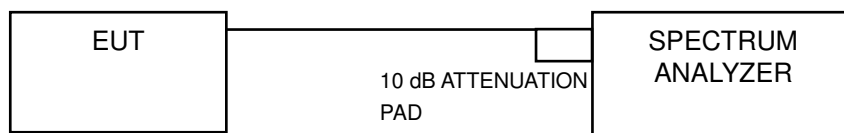
Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	177.01	22.48	30	Pass
6	2437	187.50	22.73	30	Pass
9	2452	142.89	21.55	30	Pass

4.5 Power Spectral Density Measurement

4.5.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8 dBm.

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.5.7 Test Results

802.11b

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Pass / Fail
1	2412	-9.00	8	Pass
6	2437	-9.76	8	Pass
11	2462	-9.01	8	Pass

802.11g

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Pass / Fail
1	2412	-12.01	8	Pass
6	2437	-11.95	8	Pass
11	2462	-11.92	8	Pass

802.11n (HT20)

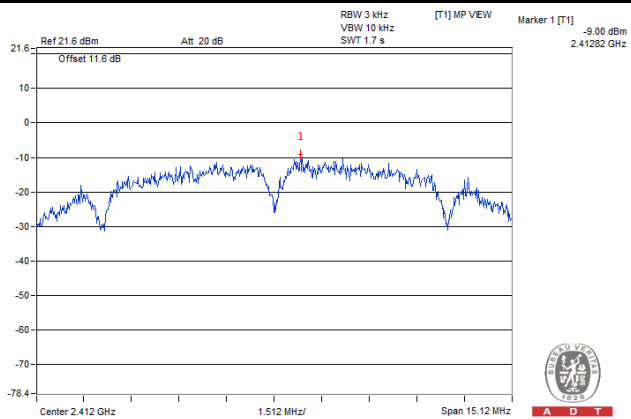
Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Pass / Fail
1	2412	-13.32	8	Pass
6	2437	-12.37	8	Pass
11	2462	-12.74	8	Pass

802.11n (HT40)

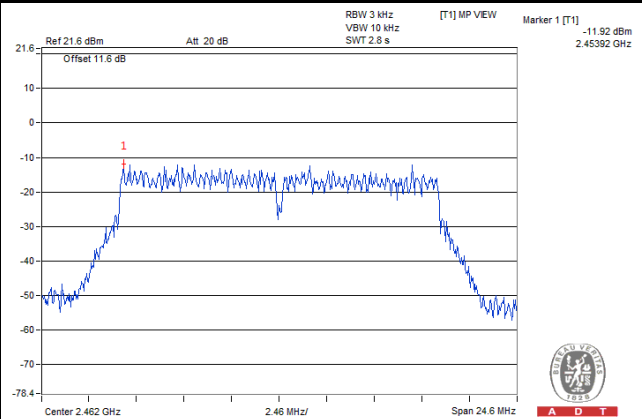
Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Pass / Fail
3	2422	-15.62	8	Pass
6	2437	-15.96	8	Pass
9	2452	-16.27	8	Pass

Spectrum Plot of Worst Value

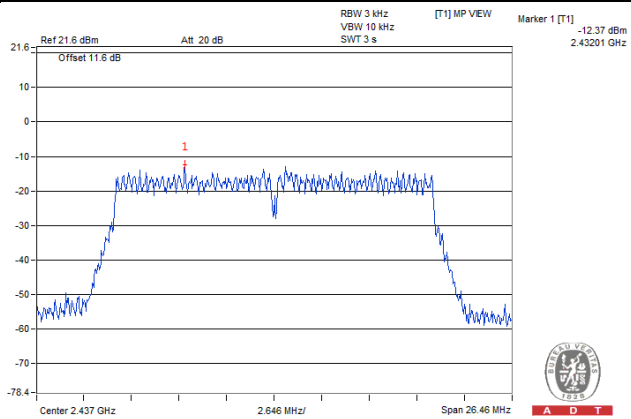
802.11b



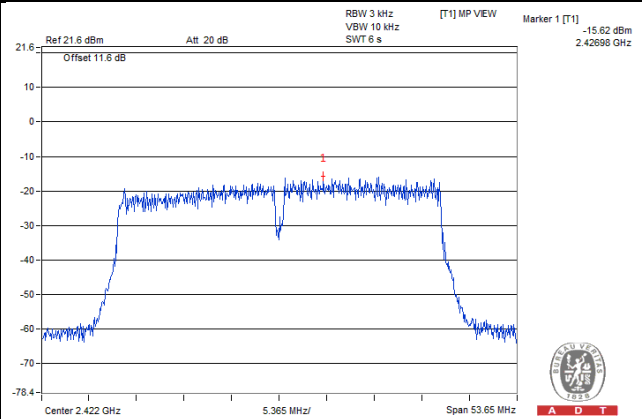
802.11g



802.11n (HT20)



802.11n (HT40)

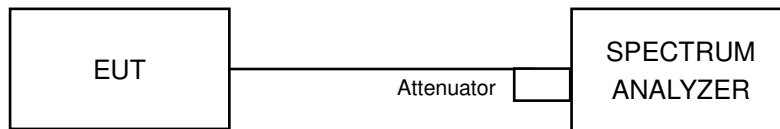


4.6 Conducted Out of Band Emission Measurement

4.6.1 Limits of Conducted Out of Band Emission Measurement

Below 20 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

MEASUREMENT PROCEDURE OOBE

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

4.6.5 Deviation from Test Standard

No deviation.

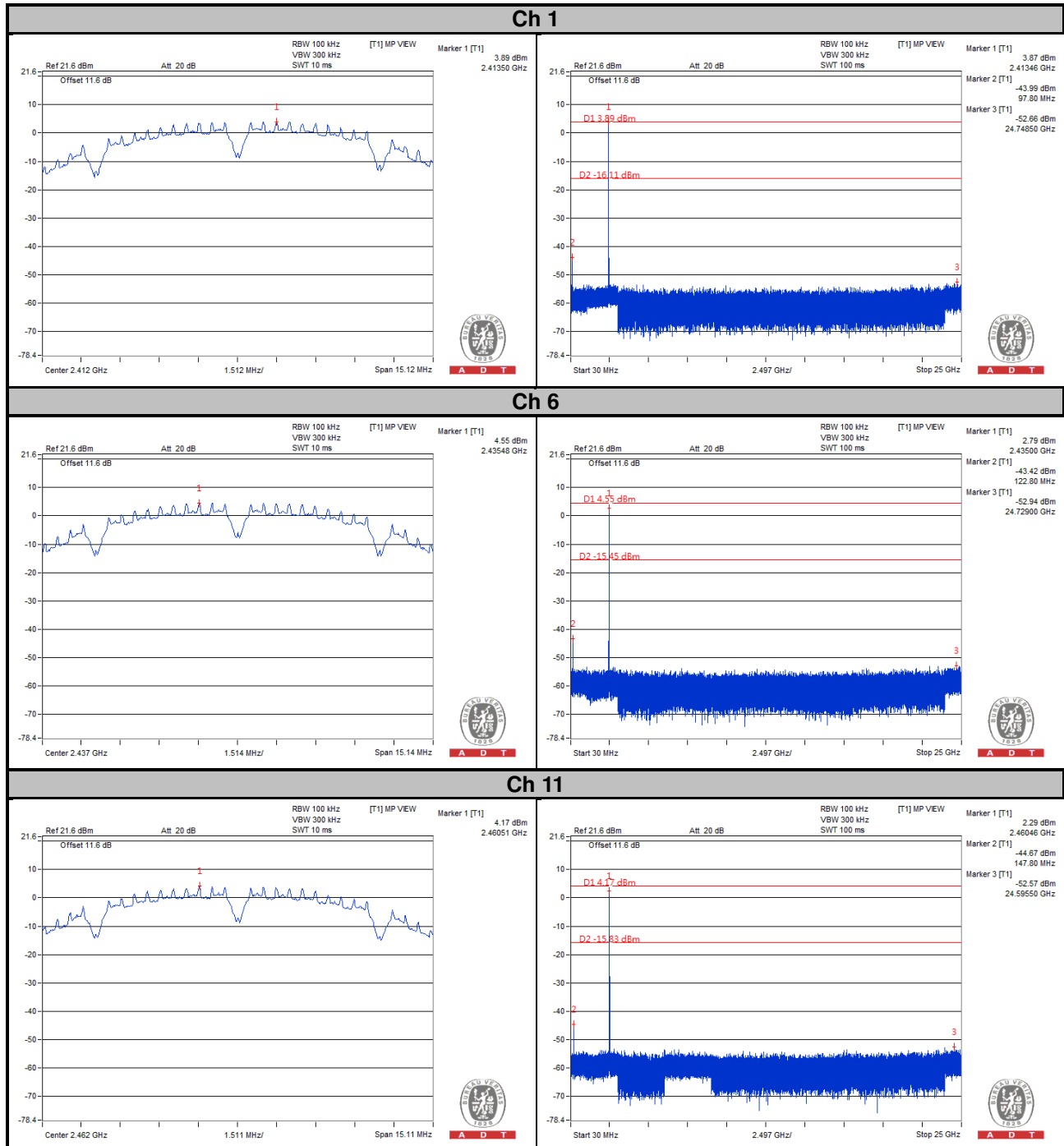
4.6.6 EUT Operating Condition

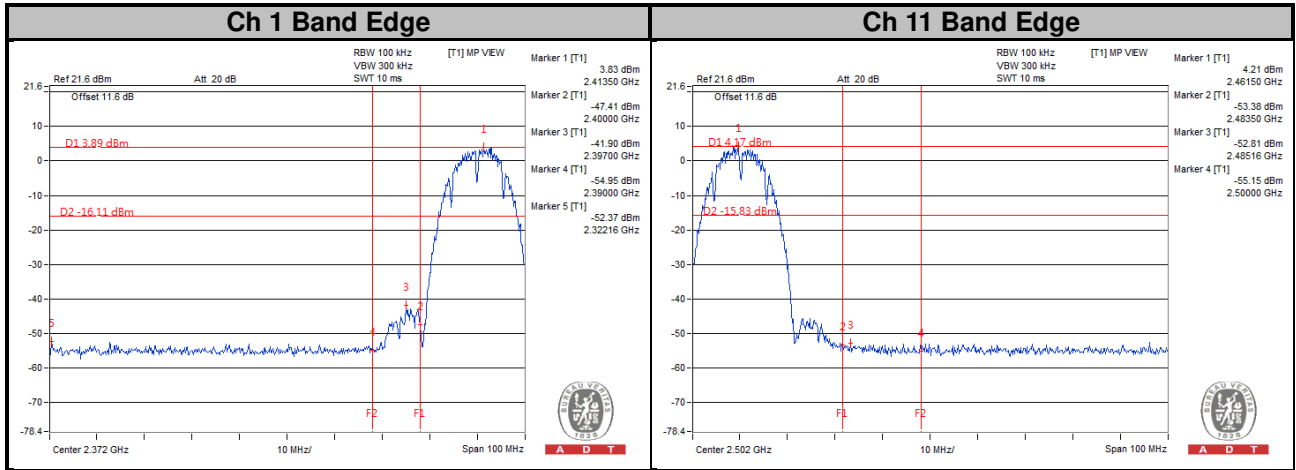
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.6.7 Test Results

The spectrum plots are attached on the following images. D1 line indicates the highest level, and D2 line indicates the 20 dB offset below D1. It shows compliance with the requirement.

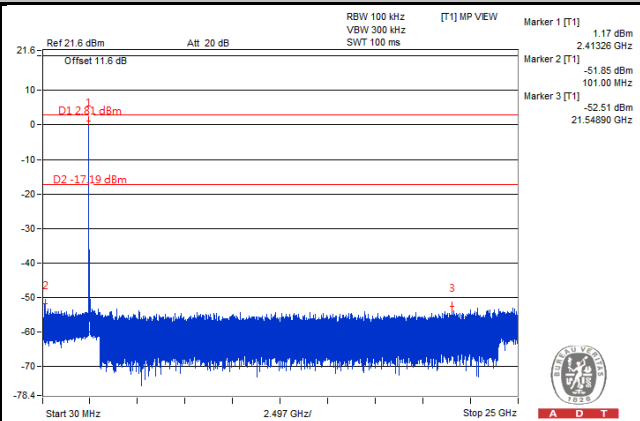
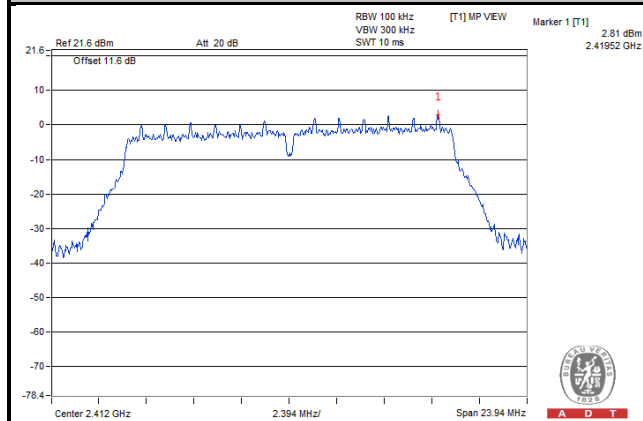
802.11b



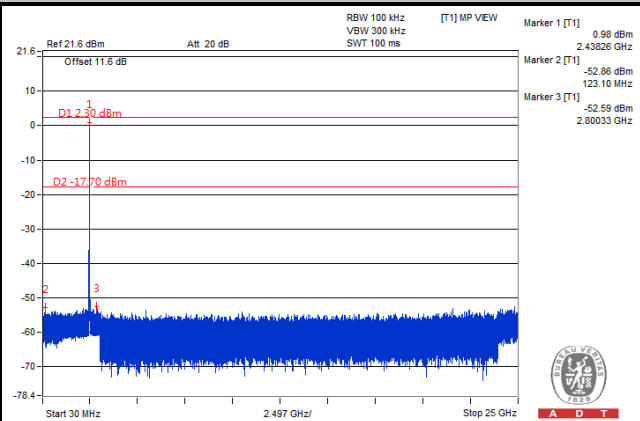
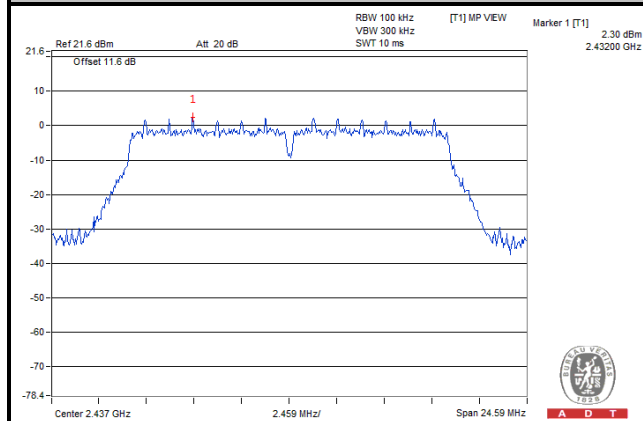


802.11g

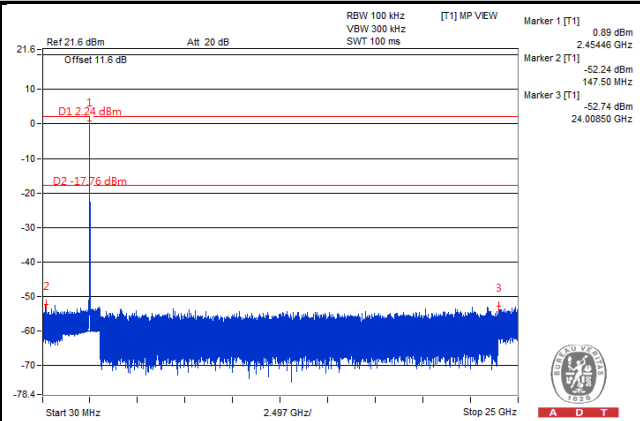
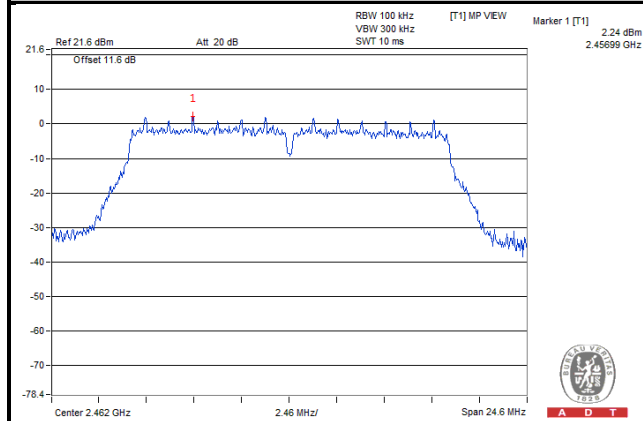
Ch 1

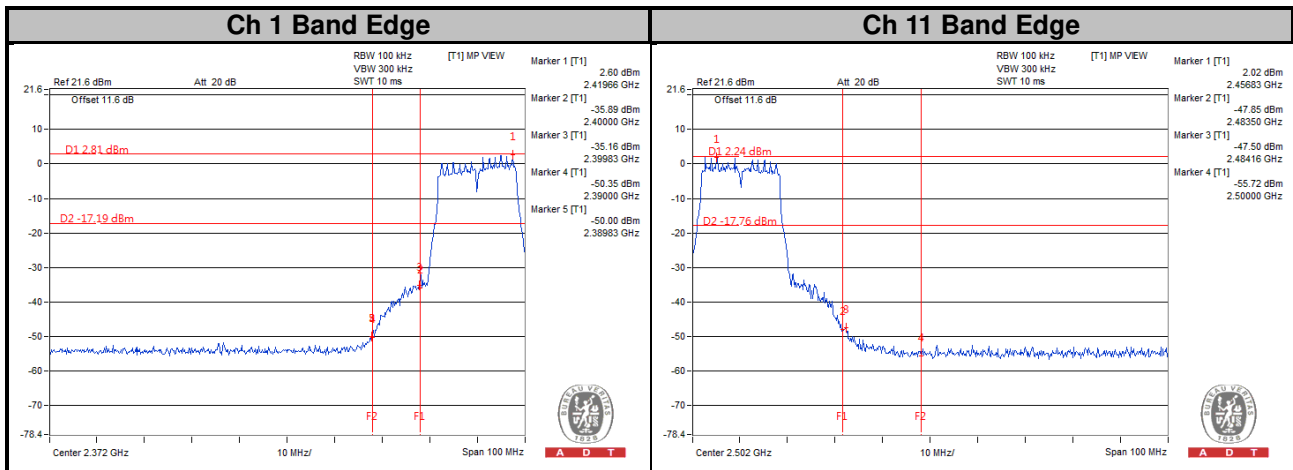


Ch 6



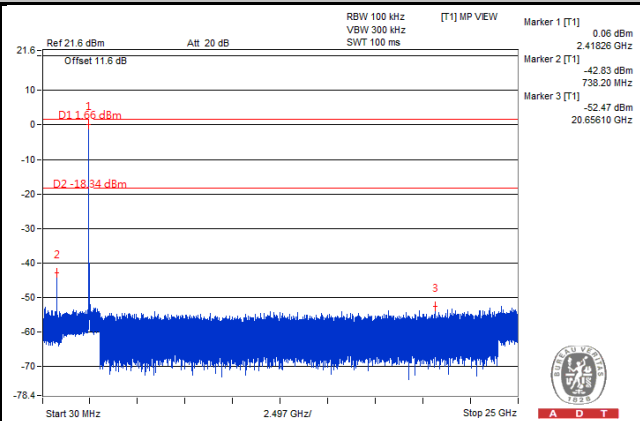
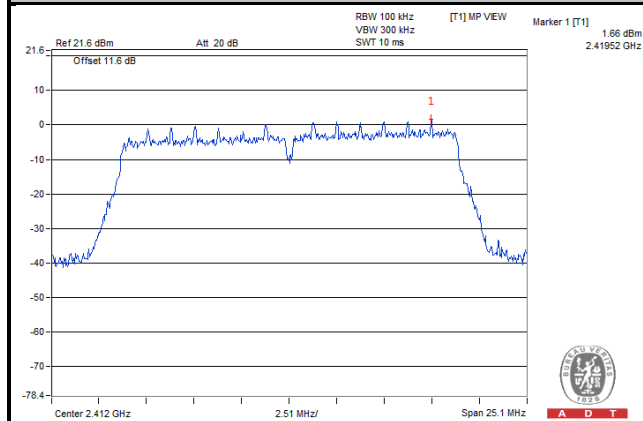
Ch 11



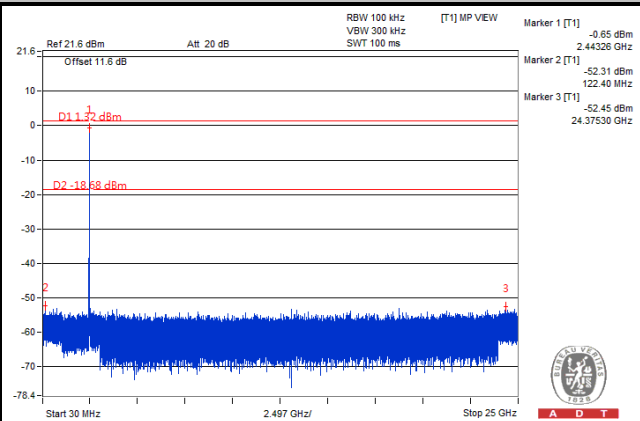
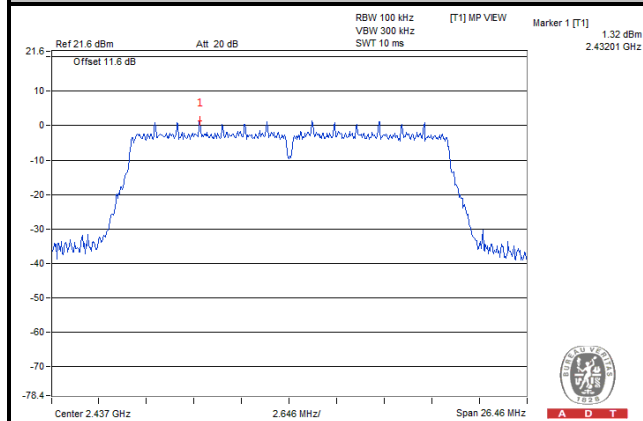


802.11n (HT20)

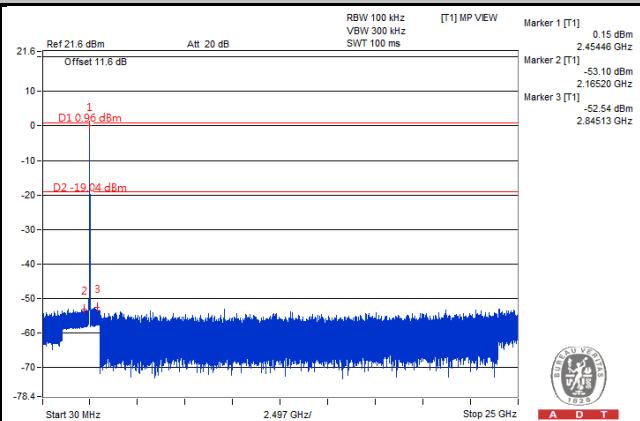
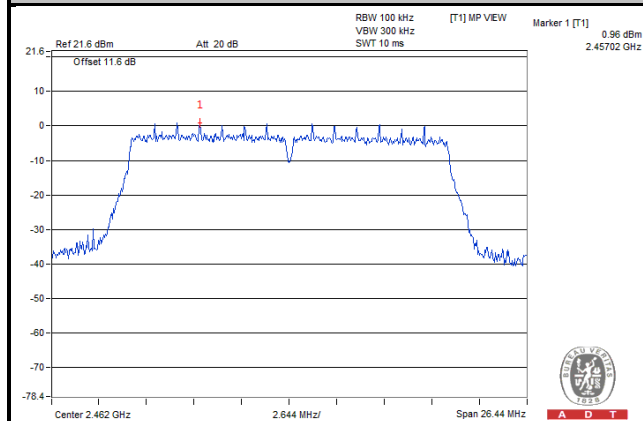
Ch 1

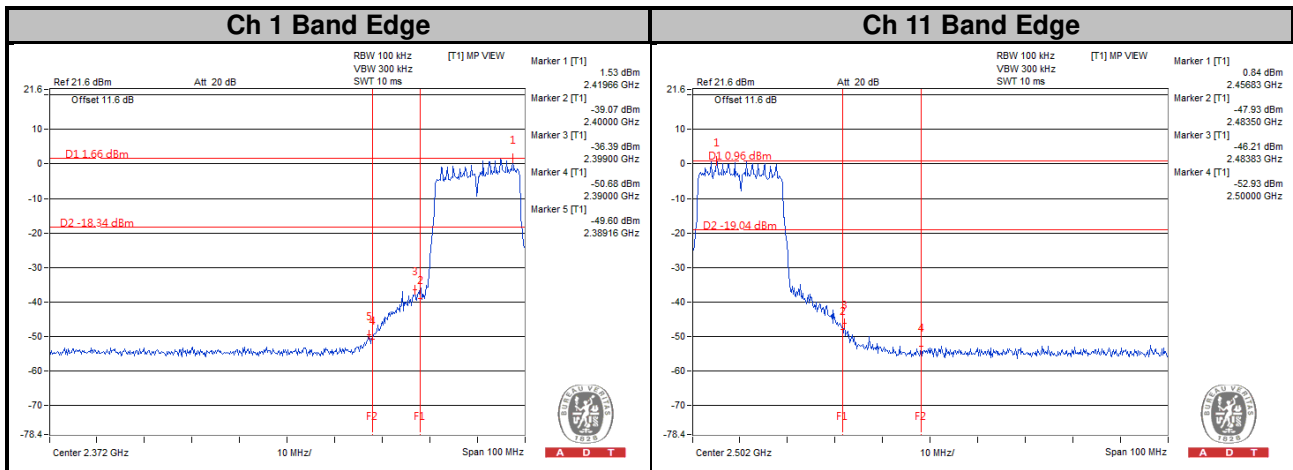


Ch 6



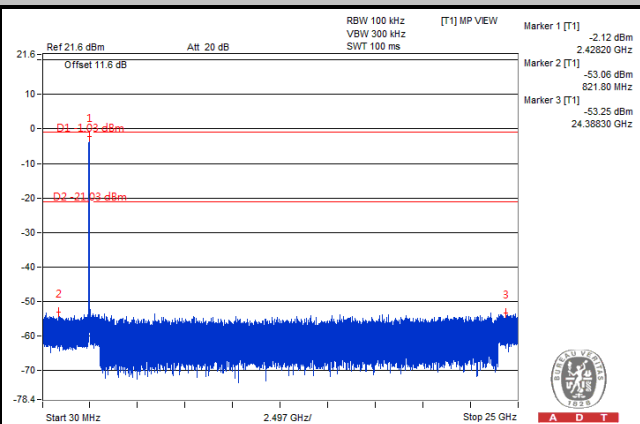
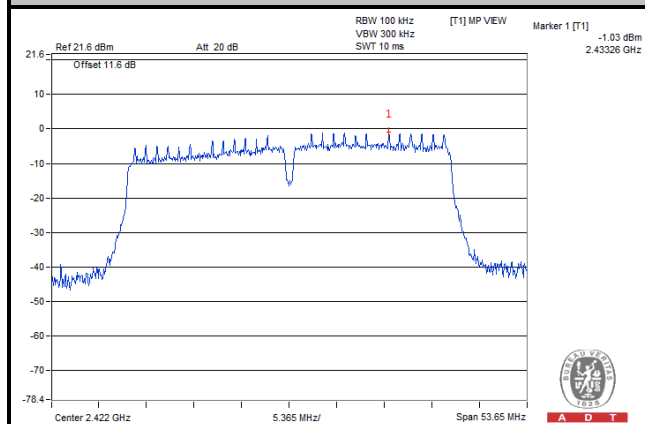
Ch 11



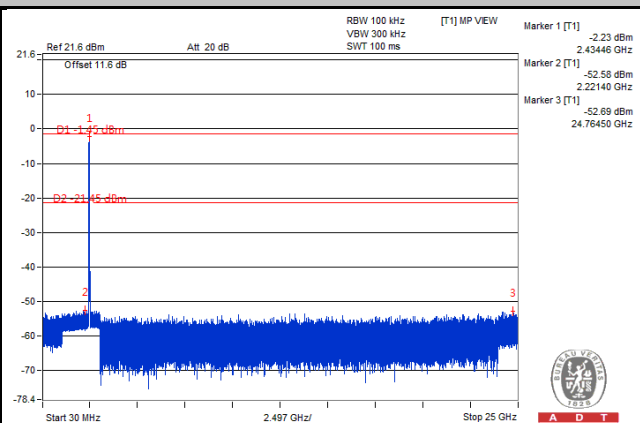
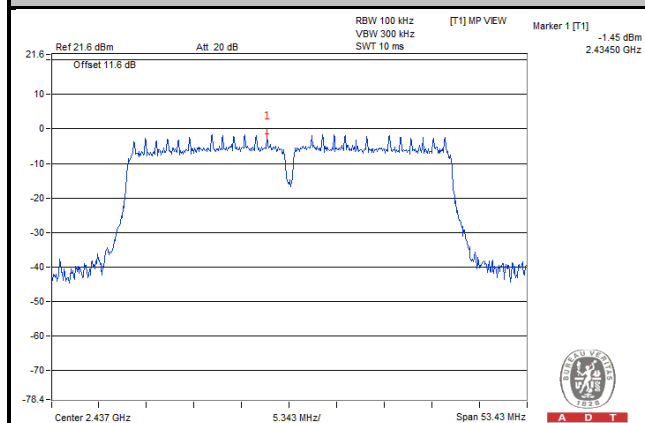


802.11n (HT40)

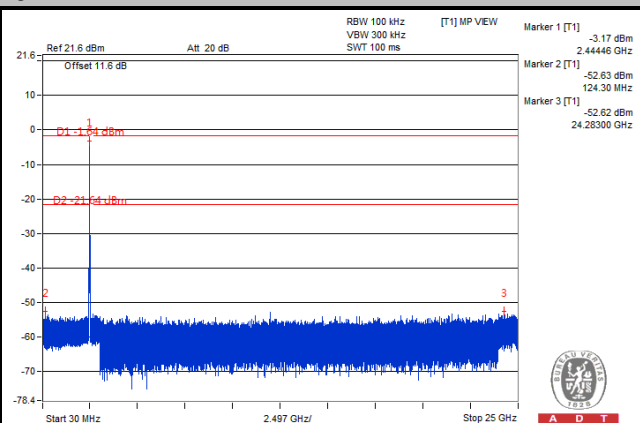
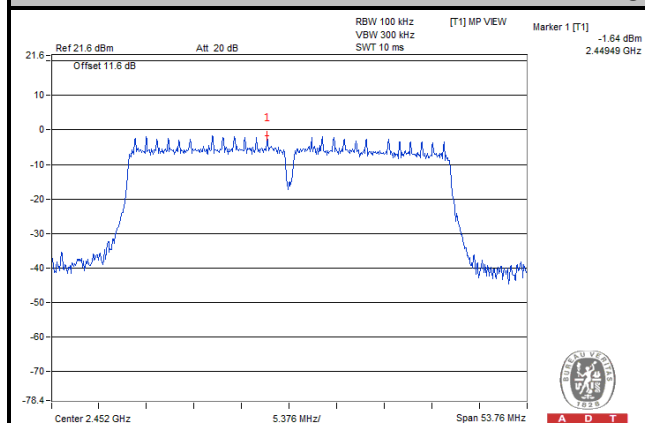
Ch 3

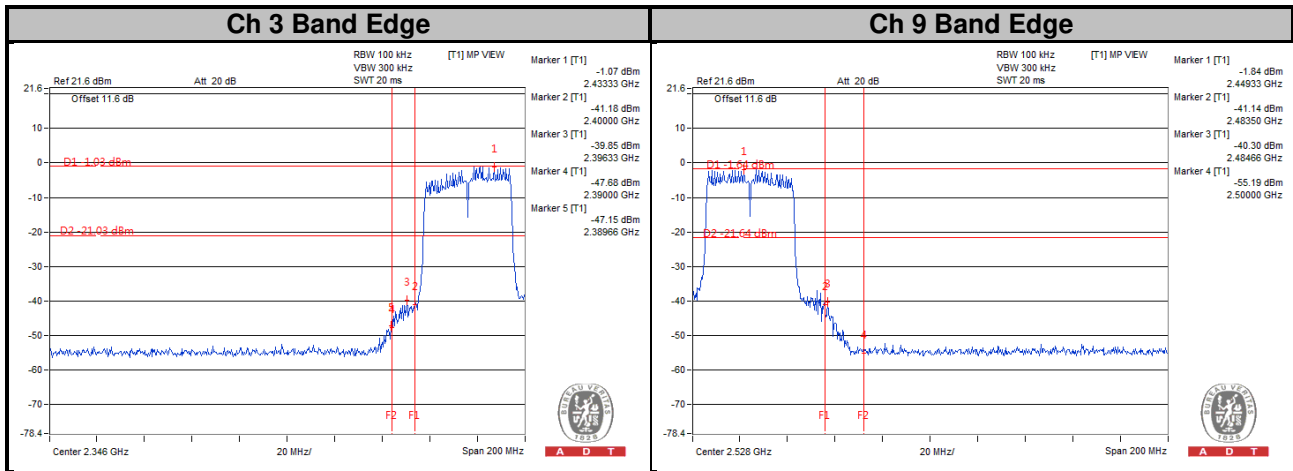


Ch 6



Ch 9





5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – 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:

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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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