

FCC Test Report

Report No.: RF200605C50-1

FCC ID: 2AH7L-UPSB

Test Model: PAS600L

Received Date: Jun. 10, 2020

Test Date: Jul. 08 ~ Oct. 21, 2020

Issued Date: Dec. 24, 2020

Applicant: Schneider Electric Industries SAS

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Grenoble cedex 9

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
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**FCC Registration /
Designation Number:**
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Release Control Record

Issue No.	Description	Date Issued
RF200605C50-1	Original Release	Dec. 24, 2020

1 Certificate of Conformity

Product: Ecostruxure Panel Server

Brand: Schneider Electric

Test Model: PAS600L

Sample Status: Identical Prototype

Applicant: Schneider Electric Industries SAS

Test Date: Jul. 08 ~ Oct. 21, 2020

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 RF characteristics under the conditions specified in this report.

Prepared by : Gina Liu, **Date:** Dec. 24, 2020
Gina Liu / Specialist

Approved by : Dylan Chiou, **Date:** Dec. 24, 2020
Dylan Chiou / Senior Project Engineer

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 -14.00 dB at 17.92095 MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -2.8 dB at 4874.00 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.
---	Occupied Bandwidth Measurement	Pass	Reference only
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.

Note:

- For 2400-2483.5MHz band compliance with rule 15.247(d) of the band-edge items, the test plots were recorded in Annex A. Test Procedures refer to report 4.1.3.
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

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

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.79 dB
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.04 dB
	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB
	1 GHz ~ 18 GHz	2.26 dB
Radiated Emissions above 1 GHz	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	Ecostruxure Panel Server
Brand	Schneider Electric
Test Model	PAS600L
Status of EUT	Identical Prototype
Power Supply Rating	24 Vdc
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: up to 150.0 Mbps
Operating Frequency	2412 ~ 2462 MHz
Number of Channel	11 for 802.11b, 802.11g, 802.11n (HT20) 7 for 802.11n (HT40)
Output Power	59.293 mW
Antenna Type	Dipole antenna with 2.54 dBi gain Internal antenna with 4.3 dBi gain
Antenna Connector	N/A
Accessory Device	External antenna for 2.4G (Brand: Schneider Electric; Model: PASA-ANT1)
Data Cable Supplied	N/A

Note:

1. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

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

2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
3. The above EUT information is declared by manufacturer and for more detailed features description, please refers 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	√	√	√	√	External Antenna
B	√	√	√	√	Internal Antenna

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 **Z-plane**.

NOTE: “-”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, B	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	6.5
	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

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	802.11b	1 to 11	6	DSSS	DBPSK	1.0
B	802.11n (HT20)	1 to 11	6	OFDM	BPSK	6.5

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	802.11b	1 to 11	6	DSSS	DBPSK	1.0
B	802.11n (HT20)	1 to 11	6	OFDM	BPSK	6.5

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, B	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	6.5
	802.11n (HT40)	3 to 9	3, 9	OFDM	BPSK	13.5

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, B	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	6.5
	802.11n (HT40)	3 to 9	3, 6, 9	OFDM	BPSK	13.5

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE≥1G	25 deg. C, 65 % RH	24 Vdc	Greg Lin
RE<1G	25 deg. C, 65 % RH	24 Vdc	Greg Lin
PLC	25 deg. C, 65 % RH	120 Vac, 60 Hz	Greg Lin
APCM	25 deg. C, 65 % RH	24 Vdc	Ivan Tseng

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98 %, duty factor shall be considered.

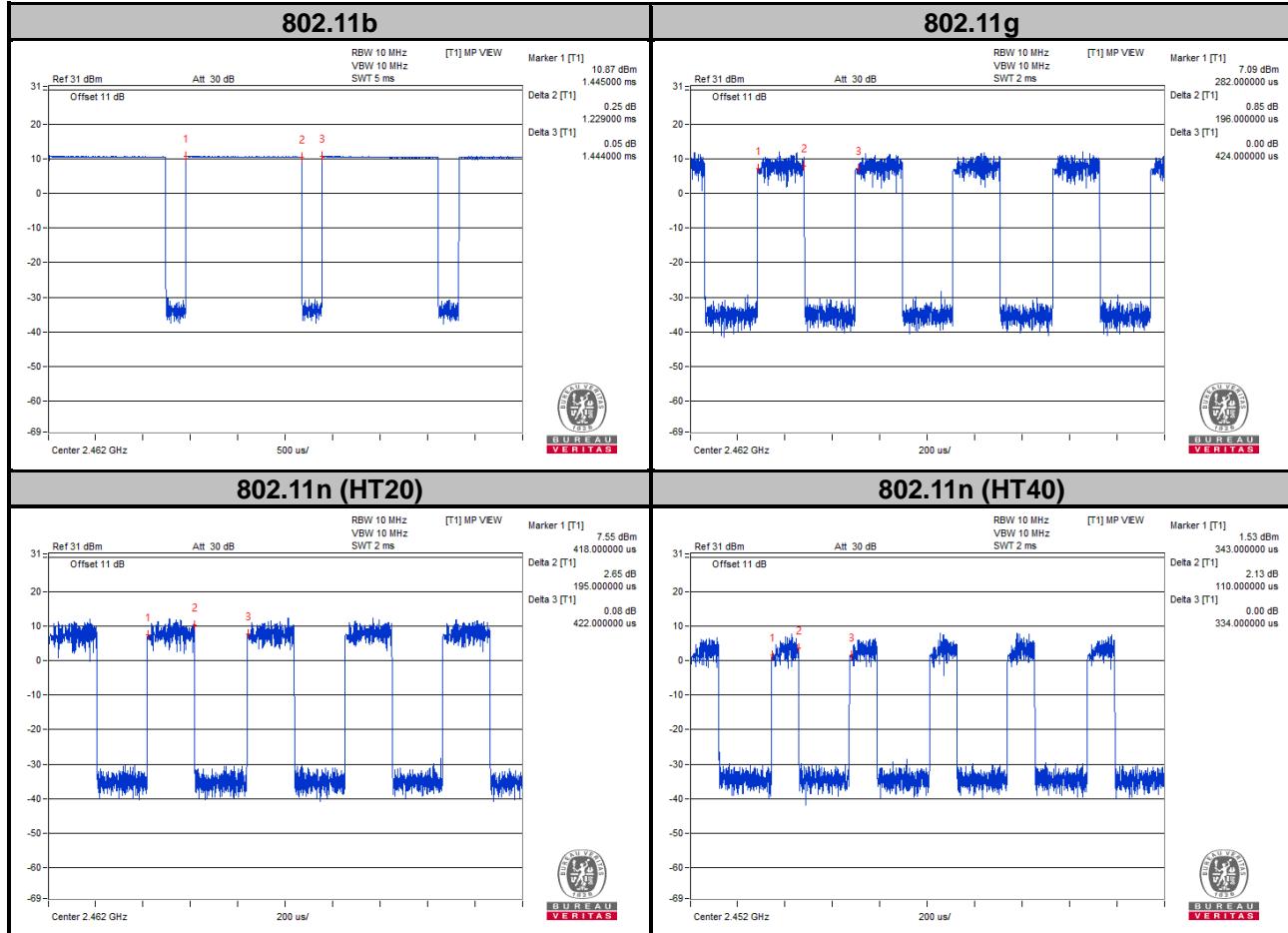
Mode A

802.11b: Duty cycle = $1.229/1.444 = 0.851$, Duty factor = $10 * \log(1/0.851) = 0.70$

802.11g: Duty cycle = $0.196/0.424 = 0.462$, Duty factor = $10 * \log(1/0.462) = 3.35$

802.11n (HT20): Duty cycle = $0.195/0.422 = 0.462$, Duty factor = $10 * \log(1/0.462) = 3.35$

802.11n (HT40): Duty cycle = $0.11/0.334 = 0.329$, Duty factor = $10 * \log(1/0.329) = 4.82$



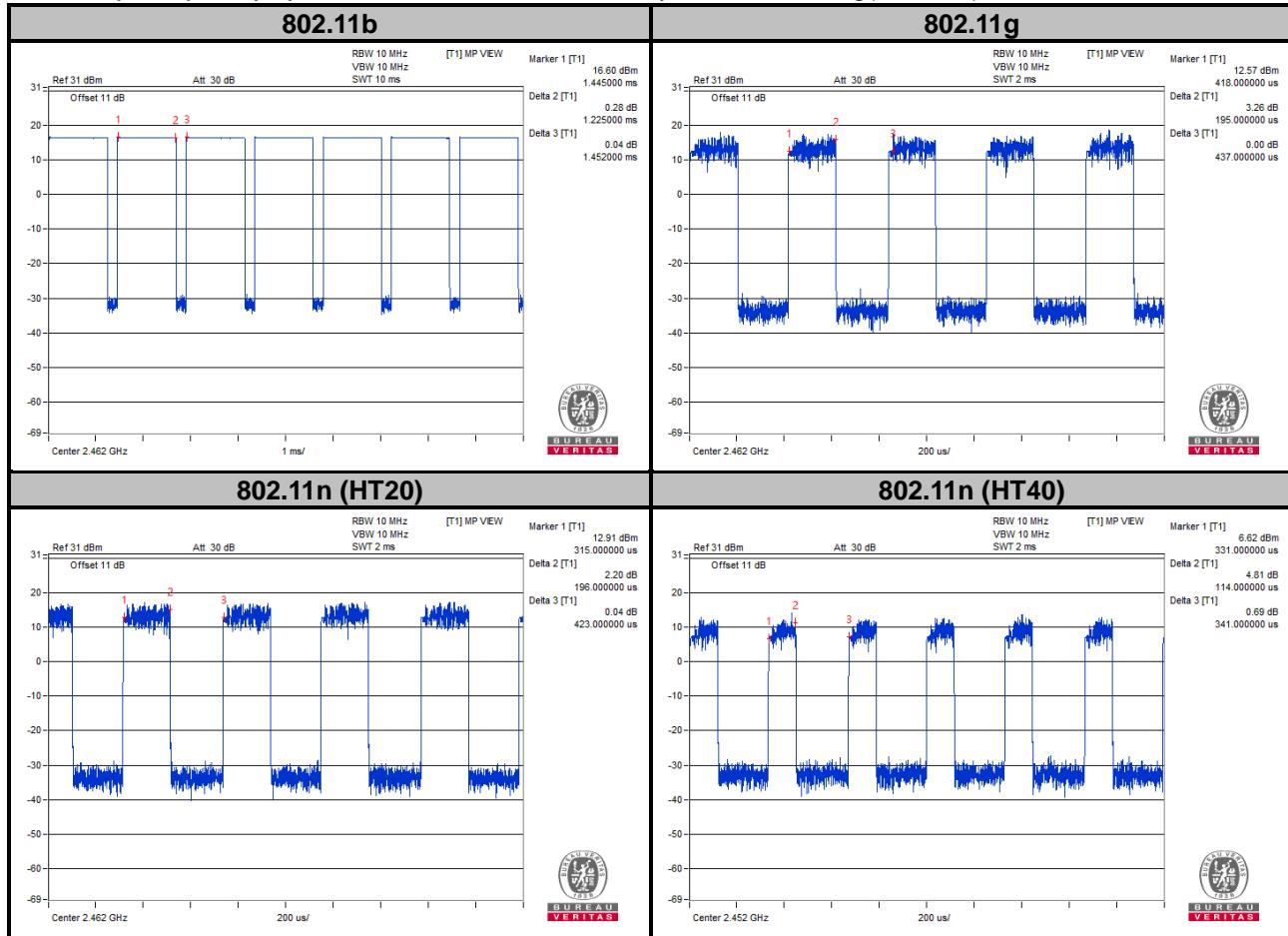
Mode B

802.11b: Duty cycle = $1.225/1.452 = 0.844$, Duty factor = $10 * \log(1/0.844) = 0.74$

802.11g: Duty cycle = $0.195/0.437 = 0.446$, Duty factor = $10 * \log(1/0.446) = 3.50$

802.11n (HT20): Duty cycle = $0.196/0.423 = 0.463$, Duty factor = $10 * \log(1/0.463) = 3.34$

802.11n (HT40): Duty cycle = $0.114/0.341 = 0.334$, Duty factor = $10 * \log(1/0.334) = 4.76$



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.

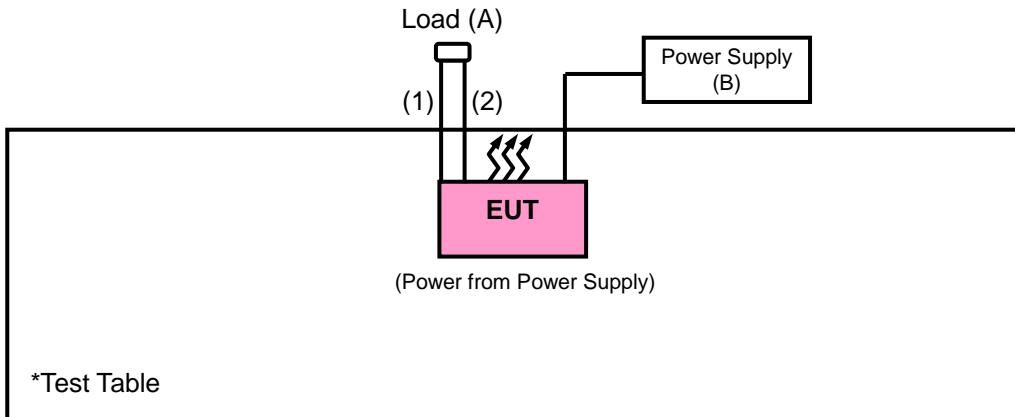
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
1.	Load	N/A	N/A	N/A	N/A	--
2.	DC Power Supply	Topward	33010D	807748	N/A	--

Note:

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

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	LAN Cable	1	1.5	N	0	--
2.	LAN Cable	1	1.5	N	0	--

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards and References

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

Test Standard:

FCC Part 15, Subpart C (15.247)

ANSI C63.10-2013

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

References Test Guidance:

KDB 558074 D01 Meas Guidance v05r02

All test items have been performed as a reference to the above KDB test guidance.

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 (dB_{UV}/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 KEYSIGHT	N9038A	MY55420137	Apr. 16, 2020	Apr. 15, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 12, 2020	Jun. 11, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSV40	100980	Apr. 20, 2020	Apr. 19, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 07, 2019	Nov. 06, 2020
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Nov. 23, 2020
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 08, 2020	Jun. 07, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 18, 2020	Feb. 17, 2021
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM8000	CABLE-CH9-02 (248780+171006)	Feb. 18, 2020	Feb. 17, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(25079 5/4)	Jan. 18, 2020	Jan. 17, 2021
RF signal cable Woken	8D-FB	Cable-CH9-01	Jun. 08, 2020	Jun. 07, 2021
Software BV ADT	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower & Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Power Meter Anritsu	ML2495A	1232003	Dec. 30, 2019	Dec. 29, 2020

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 9.

4.1.3 Test Procedures

For Radiated Emission below 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. 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. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case 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.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

For Radiated Emission above 30 MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 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:

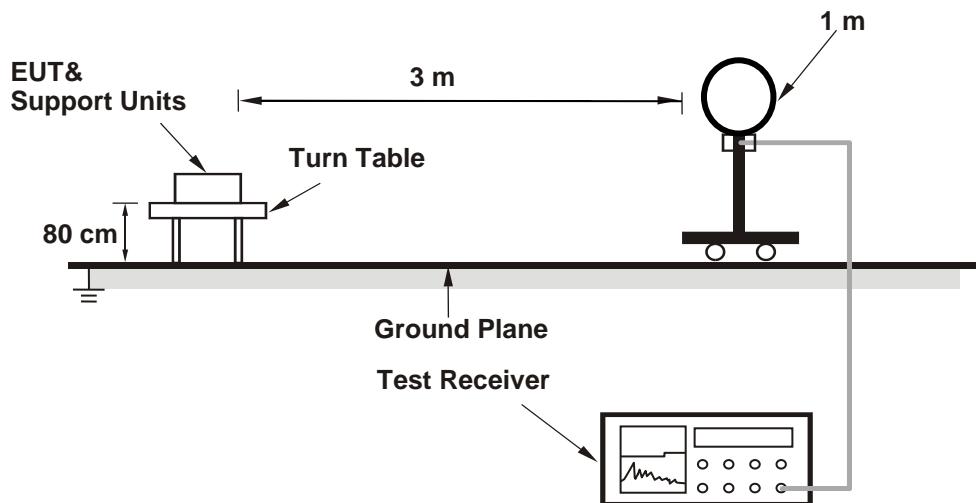
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98 %) or 10 Hz (Duty cycle $\geq 98 \%$) for Average detection (AV) at frequency above 1 GHz.
 (11b: RBW = 1 MHz, VBW = 1 kHz ; 11n: RBW = 1 MHz, VBW = 10 kHz ;
 11n (HT20): RBW = 1 MHz, VBW = 10 kHz ; 11n (HT40): RBW = 1 MHz, VBW = 10 kHz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

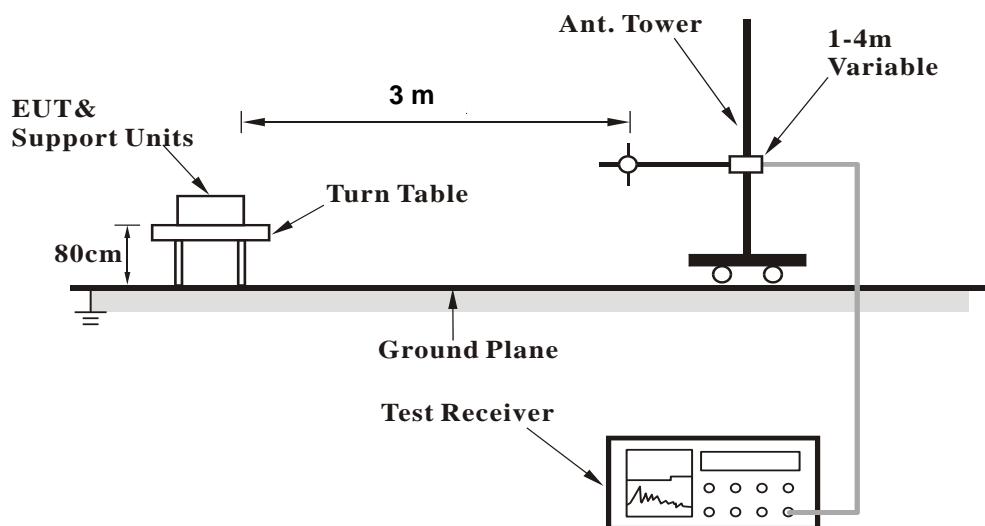
No deviation.

4.1.5 Test Set Up

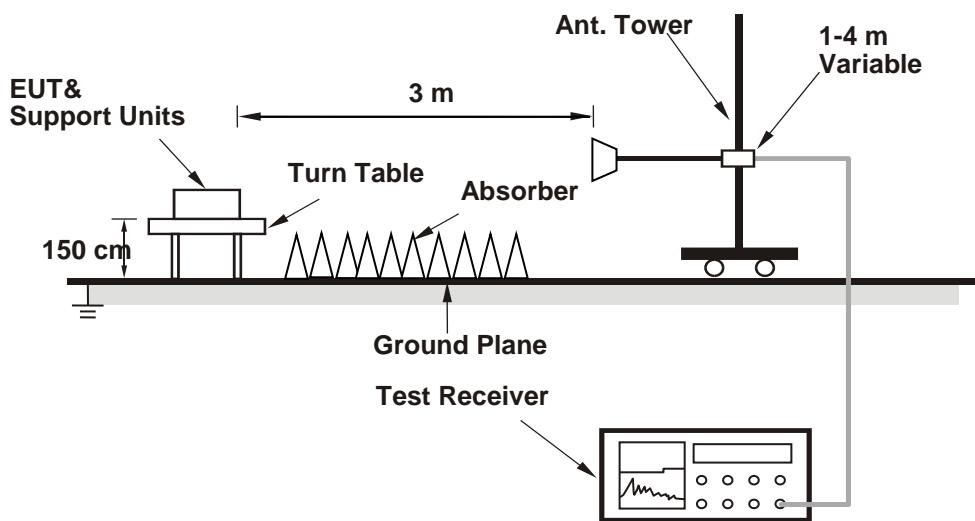
<Radiated Emission below 30 MHz>



<Radiated Emission 30 MHz to 1 GHz>



<Radiated Emission 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 :

Mode A

802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.8 PK	74.0	-18.2	2.03 H	6	24.6	31.2
2	2390.00	43.4 AV	54.0	-10.6	2.03 H	6	12.2	31.2
3	*2412.00	94.6 PK			2.03 H	6	63.5	31.1
4	*2412.00	90.6 AV			2.03 H	6	59.5	31.1
5	4824.00	50.8 PK	74.0	-23.2	1.67 H	222	49.0	1.8
6	4824.00	48.6 AV	54.0	-5.4	1.67 H	222	46.8	1.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.0 PK	74.0	-18.0	1.93 V	297	24.8	31.2
2	2390.00	43.6 AV	54.0	-10.4	1.93 V	297	12.4	31.2
3	*2412.00	98.9 PK			1.93 V	297	67.8	31.1
4	*2412.00	94.9 AV			1.93 V	297	63.8	31.1
5	4824.00	52.6 PK	74.0	-21.4	2.80 V	155	50.8	1.8
6	4824.00	50.4 AV	54.0	-3.6	2.80 V	155	48.6	1.8

REMARKS:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION		Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	94.9 PK			2.09 H	11	63.8	31.1
2	*2437.00	90.9 AV			2.09 H	11	59.8	31.1
3	4874.00	51.4 PK	74.0	-22.6	1.73 H	228	49.4	2.0
4	4874.00	49.1 AV	54.0	-4.9	1.73 H	228	47.1	2.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	99.3 PK			1.97 V	291	68.2	31.1
2	*2437.00	95.3 AV			1.97 V	291	64.2	31.1
3	4874.00	53.3 PK	74.0	-20.7	2.89 V	164	51.3	2.0
4	4874.00	51.2 AV	54.0	-2.8	2.89 V	164	49.2	2.0

REMARKS:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	94.0 PK			2.12 H	8	62.9	31.1
2	*2462.00	90.0 AV			2.12 H	8	58.9	31.1
3	2483.50	55.5 PK	74.0	-18.5	2.12 H	8	24.3	31.2
4	2483.50	43.4 AV	54.0	-10.6	2.12 H	8	12.2	31.2
5	4924.00	50.9 PK	74.0	-23.1	1.73 H	229	48.8	2.1
6	4924.00	48.7 AV	54.0	-5.3	1.73 H	229	46.6	2.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	98.2 PK			1.43 V	296	67.1	31.1
2	*2462.00	94.2 AV			1.43 V	296	63.1	31.1
3	2483.50	56.4 PK	74.0	-17.6	1.43 V	296	25.2	31.2
4	2483.50	43.7 AV	54.0	-10.3	1.43 V	296	12.5	31.2
5	4924.00	53.0 PK	74.0	-21.0	2.76 V	152	50.9	2.1
6	4924.00	50.6 AV	54.0	-3.4	2.76 V	152	48.5	2.1

REMARKS:

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.5 PK	74.0	-18.5	2.11 H	15	24.3	31.2
2	2390.00	43.9 AV	54.0	-10.1	2.11 H	15	12.7	31.2
3	*2412.00	90.7 PK			2.11 H	15	59.6	31.1
4	*2412.00	81.2 AV			2.11 H	15	50.1	31.1
5	4824.00	41.5 PK	74.0	-32.5	1.79 H	221	39.7	1.8
6	4824.00	28.2 AV	54.0	-25.8	1.79 H	221	26.4	1.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.8 PK	74.0	-18.2	1.74 V	302	24.6	31.2
2	2390.00	44.1 AV	54.0	-9.9	1.74 V	302	12.9	31.2
3	*2412.00	94.8 PK			1.74 V	302	63.7	31.1
4	*2412.00	85.3 AV			1.74 V	302	54.2	31.1
5	4824.00	42.1 PK	74.0	-31.9	2.74 V	153	40.3	1.8
6	4824.00	29.0 AV	54.0	-25.0	2.74 V	153	27.2	1.8

REMARKS:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	91.9 PK			2.16 H	3	60.8	31.1
2	*2437.00	82.9 AV			2.16 H	3	51.8	31.1
3	4874.00	42.5 PK	74.0	-31.5	1.71 H	232	40.5	2.0
4	4874.00	29.0 AV	54.0	-25.0	1.71 H	232	27.0	2.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	96.4 PK			1.96 V	302	65.3	31.1
2	*2437.00	87.2 AV			1.96 V	302	56.1	31.1
3	4874.00	43.2 PK	74.0	-30.8	2.82 V	159	41.2	2.0
4	4874.00	29.9 AV	54.0	-24.1	2.82 V	159	27.9	2.0

REMARKS:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	91.3 PK			2.07 H	13	60.2	31.1
2	*2462.00	81.4 AV			2.07 H	13	50.3	31.1
3	2483.50	55.6 PK	74.0	-18.4	2.07 H	13	24.4	31.2
4	2483.50	43.7 AV	54.0	-10.3	2.07 H	13	12.5	31.2
5	4924.00	42.4 PK	74.0	-31.6	1.77 H	219	40.3	2.1
6	4924.00	28.9 AV	54.0	-25.1	1.77 H	219	26.8	2.1

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	95.4 PK			2.03 V	225	64.3	31.1
2	*2462.00	85.4 AV			2.03 V	225	54.3	31.1
3	2483.50	57.1 PK	74.0	-16.9	2.03 V	225	25.9	31.2
4	2483.50	43.8 AV	54.0	-10.2	2.03 V	225	12.6	31.2
5	4924.00	42.9 PK	74.0	-31.1	2.72 V	149	40.8	2.1
6	4924.00	29.5 AV	54.0	-24.5	2.72 V	149	27.4	2.1

REMARKS:

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

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.6 PK	74.0	-18.4	1.96 H	9	24.4	31.2
2	2390.00	44.1 AV	54.0	-9.9	1.96 H	9	12.9	31.2
3	*2412.00	94.2 PK			1.96 H	9	63.1	31.1
4	*2412.00	82.6 AV			1.96 H	9	51.5	31.1
5	4824.00	42.3 PK	74.0	-31.7	1.59 H	238	40.5	1.8
6	4824.00	29.0 AV	54.0	-25.0	1.59 H	238	27.2	1.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	55.9 PK	74.0	-18.1	1.82 V	300	24.7	31.2
2	2390.00	44.4 AV	54.0	-9.6	1.82 V	300	13.2	31.2
3	*2412.00	98.4 PK			1.82 V	300	67.3	31.1
4	*2412.00	86.8 AV			1.82 V	300	55.7	31.1
5	4824.00	43.1 PK	74.0	-30.9	2.88 V	162	41.3	1.8
6	4824.00	29.6 AV	54.0	-24.4	2.88 V	162	27.8	1.8

REMARKS:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION		Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	94.8 PK			2.14 H	19	63.7	31.1
2	*2437.00	74.6 AV			2.14 H	19	43.5	31.1
3	4874.00	42.6 PK	74.0	-31.4	1.60 H	217	40.6	2.0
4	4874.00	29.3 AV	54.0	-24.7	1.60 H	217	27.3	2.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	99.3 PK			2.01 V	307	68.2	31.1
2	*2437.00	78.9 AV			2.01 V	307	47.8	31.1
3	4874.00	43.6 PK	74.0	-30.4	2.79 V	151	41.6	2.0
4	4874.00	30.1 AV	54.0	-23.9	2.79 V	151	28.1	2.0

REMARKS:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	94.5 PK			2.08 H	14	63.4	31.1
2	*2462.00	82.2 AV			2.08 H	14	51.1	31.1
3	2483.50	55.6 PK	74.0	-18.4	2.08 H	14	24.4	31.2
4	2483.50	44.0 AV	54.0	-10.0	2.08 H	14	12.8	31.2
5	4924.00	42.6 PK	74.0	-31.4	1.73 H	231	40.5	2.1
6	4924.00	29.0 AV	54.0	-25.0	1.73 H	231	26.9	2.1
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	98.5 PK			2.29 V	338	67.4	31.1
2	*2462.00	86.3 AV			2.29 V	338	55.2	31.1
3	2483.50	56.6 PK	74.0	-17.4	2.29 V	338	25.4	31.2
4	2483.50	44.5 AV	54.0	-9.5	2.29 V	338	13.3	31.2
5	4924.00	43.3 PK	74.0	-30.7	2.73 V	150	41.2	2.1
6	4924.00	29.7 AV	54.0	-24.3	2.73 V	150	27.6	2.1

REMARKS:

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

802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.1 PK	74.0	-17.9	2.02 H	13	24.9	31.2
2	2390.00	45.1 AV	54.0	-8.9	2.02 H	13	13.9	31.2
3	*2422.00	90.7 PK			2.02 H	13	59.6	31.1
4	*2422.00	78.8 AV			2.02 H	13	47.7	31.1
5	4844.00	42.1 PK	74.0	-31.9	1.75 H	226	40.2	1.9
6	4844.00	28.4 AV	54.0	-25.6	1.75 H	226	26.5	1.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.0 PK	74.0	-17.0	2.14 V	301	25.8	31.2
2	2390.00	45.9 AV	54.0	-8.1	2.14 V	301	14.7	31.2
3	*2422.00	94.7 PK			2.14 V	301	63.6	31.1
4	*2422.00	82.7 AV			2.14 V	301	51.6	31.1
5	4844.00	42.7 PK	74.0	-31.3	2.76 V	147	40.8	1.9
6	4844.00	29.2 AV	54.0	-24.8	2.76 V	147	27.3	1.9

REMARKS:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	89.6 PK			2.09 H	18	58.5	31.1
2	*2437.00	77.7 AV			2.09 H	18	46.6	31.1
3	4874.00	42.4 PK	74.0	-31.6	1.66 H	218	40.4	2.0
4	4874.00	28.7 AV	54.0	-25.3	1.66 H	218	26.7	2.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	93.7 PK			2.07 V	257	62.6	31.1
2	*2437.00	81.8 AV			2.07 V	257	50.7	31.1
3	4874.00	42.9 PK	74.0	-31.1	2.78 V	152	40.9	2.0
4	4874.00	29.6 AV	54.0	-24.4	2.78 V	152	27.6	2.0

REMARKS:

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	88.9 PK			2.15 H	10	57.8	31.1
2	*2452.00	78.7 AV			2.15 H	10	47.6	31.1
3	2483.50	56.5 PK	74.0	-17.5	2.15 H	10	25.3	31.2
4	2483.50	45.6 AV	54.0	-8.4	2.15 H	10	14.4	31.2
5	4904.00	42.2 PK	74.0	-31.8	1.71 H	225	40.2	2.0
6	4904.00	28.6 AV	54.0	-25.4	1.71 H	225	26.6	2.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	92.7 PK			2.12 V	223	61.6	31.1
2	*2452.00	82.8 AV			2.12 V	223	51.7	31.1
3	2483.50	58.6 PK	74.0	-15.4	2.12 V	223	27.4	31.2
4	2483.50	46.4 AV	54.0	-7.6	2.12 V	223	15.2	31.2
5	4904.00	42.7 PK	74.0	-31.3	2.87 V	168	40.7	2.0
6	4904.00	29.3 AV	54.0	-24.7	2.87 V	168	27.3	2.0

REMARKS:

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

Mode B
802.11b

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	55.8 PK	74.0	-18.2	1.67 H	67	24.6	31.2
2	2390.00	43.6 AV	54.0	-10.4	1.67 H	67	12.4	31.2
3	*2412.00	101.2 PK			1.67 H	67	70.1	31.1
4	*2412.00	97.3 AV			1.67 H	67	66.2	31.1
5	4824.00	49.1 PK	74.0	-24.9	2.38 H	284	47.3	1.8
6	4824.00	44.3 AV	54.0	-9.7	2.38 H	284	42.5	1.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	56.4 PK	74.0	-17.6	1.29 V	174	25.2	31.2
2	2390.00	44.3 AV	54.0	-9.7	1.29 V	174	13.1	31.2
3	*2412.00	102.0 PK			1.29 V	174	70.9	31.1
4	*2412.00	98.2 AV			1.29 V	174	67.1	31.1
5	4824.00	49.5 PK	74.0	-24.5	2.76 V	208	47.7	1.8
6	4824.00	44.7 AV	54.0	-9.3	2.76 V	208	42.9	1.8

REMARKS:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION		Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz			Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	100.5 PK			1.79 H	75	69.4	31.1
2	*2437.00	96.8 AV			1.79 H	75	65.7	31.1
3	4874.00	48.2 PK	74.0	-25.8	2.33 H	285	46.2	2.0
4	4874.00	43.4 AV	54.0	-10.6	2.33 H	285	41.4	2.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2437.00	101.8 PK			1.19 V	167	70.7	31.1
2	*2437.00	97.9 AV			1.19 V	167	66.8	31.1
3	4874.00	49.3 PK	74.0	-24.7	2.79 V	206	47.3	2.0
4	4874.00	44.2 AV	54.0	-9.8	2.79 V	206	42.2	2.0

REMARKS:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	100.9 PK			1.77 H	82	69.8	31.1
2	*2462.00	97.0 AV			1.77 H	82	65.9	31.1
3	2483.50	55.6 PK	74.0	-18.4	1.77 H	82	24.4	31.2
4	2483.50	43.7 AV	54.0	-10.3	1.77 H	82	12.5	31.2
5	4924.00	49.3 PK	74.0	-24.7	2.47 H	292	47.2	2.1
6	4924.00	44.7 AV	54.0	-9.3	2.47 H	292	42.6	2.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	101.8 PK			1.32 V	173	70.7	31.1
2	*2462.00	97.9 AV			1.32 V	173	66.8	31.1
3	2483.50	56.5 PK	74.0	-17.5	1.32 V	173	25.3	31.2
4	2483.50	44.6 AV	54.0	-9.4	1.32 V	173	13.4	31.2
5	4924.00	50.0 PK	74.0	-24.0	2.83 V	212	47.9	2.1
6	4924.00	45.4 AV	54.0	-8.6	2.83 V	212	43.3	2.1

REMARKS:

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

802.11g

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.6 PK	74.0	-17.4	1.79 H	74	25.4	31.2
2	2390.00	44.8 AV	54.0	-9.2	1.79 H	74	13.6	31.2
3	*2412.00	100.8 PK			1.79 H	74	69.7	31.1
4	*2412.00	90.5 AV			1.79 H	74	59.4	31.1
5	4824.00	44.4 PK	74.0	-29.6	2.36 H	284	42.6	1.8
6	4824.00	31.7 AV	54.0	-22.3	2.36 H	284	29.9	1.8
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.0 PK	74.0	-17.0	1.34 V	182	25.8	31.2
2	2390.00	45.8 AV	54.0	-8.2	1.34 V	182	14.6	31.2
3	*2412.00	101.7 PK			1.34 V	182	70.6	31.1
4	*2412.00	91.5 AV			1.34 V	182	60.4	31.1
5	4824.00	45.6 PK	74.0	-28.4	2.79 V	203	43.8	1.8
6	4824.00	32.6 AV	54.0	-21.4	2.79 V	203	30.8	1.8

REMARKS:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	100.9 PK			1.64 H	68	69.8	31.1
2	*2437.00	90.7 AV			1.64 H	68	59.6	31.1
3	4874.00	44.9 PK	74.0	-29.1	2.29 H	274	42.9	2.0
4	4874.00	31.2 AV	54.0	-22.8	2.29 H	274	29.2	2.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	101.9 PK			1.36 V	185	70.8	31.1
2	*2437.00	91.7 AV			1.36 V	185	60.6	31.1
3	4874.00	45.6 PK	74.0	-28.4	2.75 V	202	43.6	2.0
4	4874.00	32.3 AV	54.0	-21.7	2.75 V	202	30.3	2.0

REMARKS:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	98.3 PK			1.69 H	72	67.2	31.1
2	*2462.00	87.0 AV			1.69 H	72	55.9	31.1
3	2483.50	56.0 PK	74.0	-18.0	1.69 H	72	24.8	31.2
4	2483.50	45.3 AV	54.0	-8.7	1.69 H	72	14.1	31.2
5	4924.00	42.9 PK	74.0	-31.1	2.36 H	288	40.8	2.1
6	4924.00	29.5 AV	54.0	-24.5	2.36 H	288	27.4	2.1

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	99.0 PK			1.31 V	164	67.9	31.1
2	*2462.00	87.8 AV			1.31 V	164	56.7	31.1
3	2483.50	56.5 PK	74.0	-17.5	1.31 V	164	25.3	31.2
4	2483.50	45.5 AV	54.0	-8.5	1.31 V	164	14.3	31.2
5	4924.00	43.3 PK	74.0	-30.7	2.77 V	208	41.2	2.1
6	4924.00	29.7 AV	54.0	-24.3	2.77 V	208	27.6	2.1

REMARKS:

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

802.11n (HT20)

CHANNEL	TX Channel 1	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.0 PK	74.0	-18.0	1.72 H	63	24.8	31.2
2	2390.00	45.4 AV	54.0	-8.6	1.72 H	63	14.2	31.2
3	*2412.00	100.4 PK			1.72 H	63	69.3	31.1
4	*2412.00	89.5 AV			1.72 H	63	58.4	31.1
5	4824.00	45.0 PK	74.0	-29.0	2.38 H	281	43.2	1.8
6	4824.00	31.4 AV	54.0	-22.6	2.38 H	281	29.6	1.8

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	56.6 PK	74.0	-17.4	1.35 V	169	25.4	31.2
2	2390.00	45.8 AV	54.0	-8.2	1.35 V	169	14.6	31.2
3	*2412.00	101.4 PK			1.35 V	169	70.3	31.1
4	*2412.00	90.6 AV			1.35 V	169	59.5	31.1
5	4824.00	45.4 PK	74.0	-28.6	2.66 V	217	43.6	1.8
6	4824.00	32.0 AV	54.0	-22.0	2.66 V	217	30.2	1.8

REMARKS:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	103.2 PK			1.79 H	71	72.1	31.1
2	*2437.00	92.2 AV			1.79 H	71	61.1	31.1
3	4874.00	47.7 PK	74.0	-26.3	2.36 H	284	45.7	2.0
4	4874.00	34.2 AV	54.0	-19.8	2.36 H	284	32.2	2.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	104.3 PK			1.35 V	177	73.2	31.1
2	*2437.00	93.4 AV			1.35 V	177	62.3	31.1
3	4874.00	48.7 PK	74.0	-25.3	2.74 V	202	46.7	2.0
4	4874.00	34.5 AV	54.0	-19.5	2.74 V	202	32.5	2.0

REMARKS:

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

CHANNEL	TX Channel 11	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	97.3 PK			1.63 H	75	66.2	31.1
2	*2462.00	85.7 AV			1.63 H	75	54.6	31.1
3	2483.50	56.1 PK	74.0	-17.9	1.63 H	75	24.9	31.2
4	2483.50	45.4 AV	54.0	-8.6	1.63 H	75	14.2	31.2
5	4924.00	44.9 PK	74.0	-29.1	2.41 H	293	42.8	2.1
6	4924.00	31.3 AV	54.0	-22.7	2.41 H	293	29.2	2.1

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2462.00	98.2 PK			1.33 V	167	67.1	31.1
2	*2462.00	86.7 AV			1.33 V	167	55.6	31.1
3	2483.50	56.5 PK	74.0	-17.5	1.33 V	167	25.3	31.2
4	2483.50	45.7 AV	54.0	-8.3	1.33 V	167	14.5	31.2
5	4924.00	45.4 PK	74.0	-28.6	2.69 V	197	43.3	2.1
6	4924.00	31.7 AV	54.0	-22.3	2.69 V	197	29.6	2.1

REMARKS:

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

802.11n (HT40)

CHANNEL	TX Channel 3	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.7 PK	74.0	-16.3	1.82 H	83	26.5	31.2
2	2390.00	45.5 AV	54.0	-8.5	1.82 H	83	14.3	31.2
3	*2422.00	94.9 PK			1.82 H	83	63.8	31.1
4	*2422.00	84.8 AV			1.82 H	83	53.7	31.1
5	4844.00	44.1 PK	74.0	-29.9	2.46 H	291	42.2	1.9
6	4844.00	31.4 AV	54.0	-22.6	2.46 H	291	29.5	1.9

Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2390.00	57.9 PK	74.0	-16.1	1.32 V	171	26.7	31.2
2	2390.00	45.9 AV	54.0	-8.1	1.32 V	171	14.7	31.2
3	*2422.00	96.0 PK			1.32 V	171	64.9	31.1
4	*2422.00	85.7 AV			1.32 V	171	54.6	31.1
5	4844.00	44.5 PK	74.0	-29.5	2.85 V	216	42.6	1.9
6	4844.00	41.7 AV	54.0	-12.3	2.85 V	216	39.8	1.9

REMARKS:

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

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	93.3 PK			1.73 H	76	62.2	31.1
2	*2437.00	83.1 AV			1.73 H	76	52.0	31.1
3	4874.00	43.7 PK	74.0	-30.3	2.23 H	297	41.7	2.0
4	4874.00	31.2 AV	54.0	-22.8	2.23 H	297	29.2	2.0

Antenna Polarity & Test Distance : Vertical at 3 m

No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2437.00	94.1 PK			1.35 V	180	63.0	31.1
2	*2437.00	83.9 AV			1.35 V	180	52.8	31.1
3	4874.00	44.3 PK	74.0	-29.7	2.79 V	214	42.3	2.0
4	4874.00	31.2 AV	54.0	-22.8	2.79 V	214	29.2	2.0

REMARKS:

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

CHANNEL	TX Channel 9	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	93.4 PK			1.76 H	79	62.3	31.1
2	*2452.00	83.2 AV			1.76 H	79	52.1	31.1
3	2483.50	57.4 PK	74.0	-16.6	1.76 H	79	26.2	31.2
4	2483.50	45.5 AV	54.0	-8.5	1.76 H	79	14.3	31.2
5	4904.00	43.8 PK	74.0	-30.2	2.44 H	293	41.8	2.0
6	4904.00	30.9 AV	54.0	-23.1	2.44 H	293	28.9	2.0
Antenna Polarity & Test Distance : Vertical at 3 m								
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*2452.00	94.4 PK			1.17 V	168	63.3	31.1
2	*2452.00	84.3 AV			1.17 V	168	53.2	31.1
3	2483.50	58.0 PK	74.0	-16.0	1.17 V	168	26.8	31.2
4	2483.50	46.2 AV	54.0	-7.8	1.17 V	168	15.0	31.2
5	4904.00	44.3 PK	74.0	-29.7	2.77 V	206	42.3	2.0
6	4904.00	31.4 AV	54.0	-22.6	2.77 V	206	29.4	2.0

REMARKS:

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

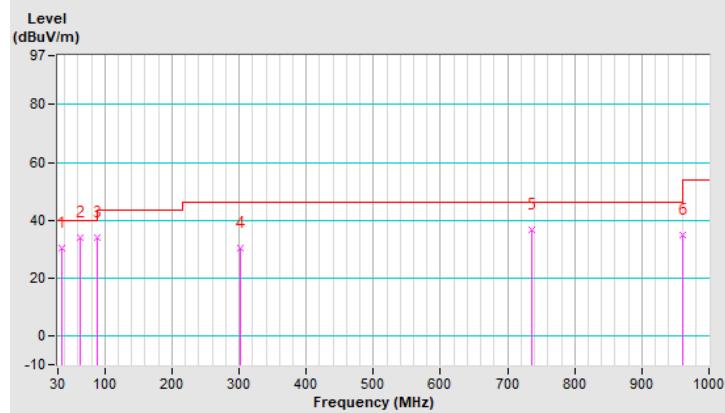
30 MHz ~ 1 GHz Worst-Case Data:
Mode A
802.11b

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	36.79	30.4 QP	40.0	-9.6	1.25 H	69	40.6	-10.2
2	62.98	33.9 QP	40.0	-6.1	1.00 H	99	43.9	-10.0
3	88.20	33.9 QP	43.5	-9.6	1.50 H	159	48.4	-14.5
4	301.60	30.5 QP	46.0	-15.5	1.25 H	345	37.5	-7.0
5	736.16	36.7 QP	46.0	-9.3	1.25 H	225	35.2	1.5
6	961.20	35.0 QP	54.0	-19.0	1.00 H	225	29.3	5.7

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

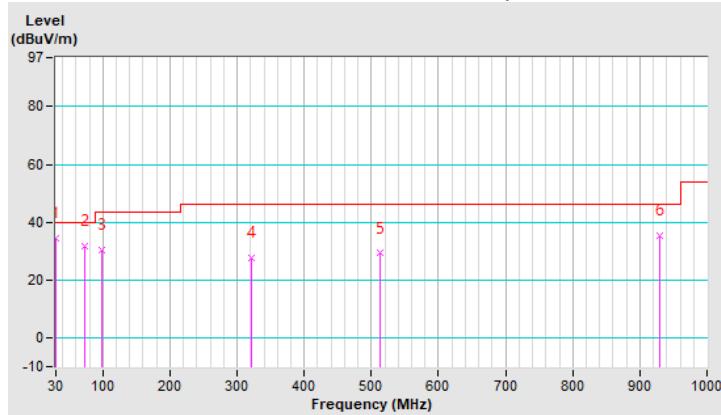


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	30.97	34.3 QP	40.0	-5.7	1.00 V	136	45.3	-11.0
2	73.65	31.5 QP	40.0	-8.5	1.25 V	270	43.3	-11.8
3	97.90	30.5 QP	43.5	-13.0	1.50 V	132	44.3	-13.8
4	321.97	27.8 QP	46.0	-18.2	1.25 V	342	34.3	-6.5
5	512.09	29.2 QP	46.0	-16.8	1.00 V	343	31.9	-2.7
6	929.19	35.3 QP	46.0	-10.7	1.00 V	234	30.1	5.2

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



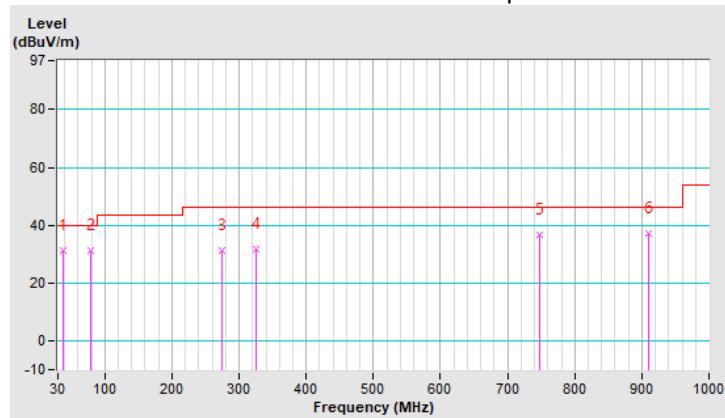
Mode B
802.11n (HT20)

CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	37.76	31.2 QP	40.0	-8.8	1.00 H	86	41.2	-10.0
2	79.47	31.4 QP	40.0	-8.6	1.00 H	145	44.7	-13.3
3	275.41	31.4 QP	46.0	-14.6	1.50 H	181	39.1	-7.7
4	324.88	31.8 QP	46.0	-14.2	1.25 H	174	38.2	-6.4
5	746.83	36.7 QP	46.0	-9.3	1.25 H	227	34.7	2.0
6	909.79	37.2 QP	46.0	-8.8	1.50 H	105	32.3	4.9

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

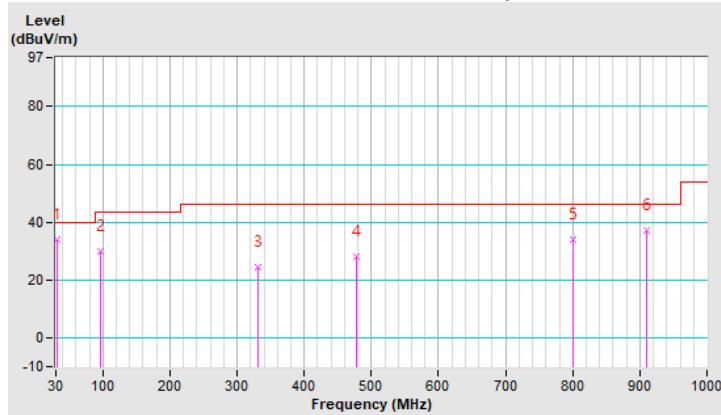


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	31.94	34.1 QP	40.0	-5.9	1.00 V	353	44.8	-10.7
2	96.93	29.8 QP	43.5	-13.7	1.25 V	176	43.7	-13.9
3	331.67	24.6 QP	46.0	-21.4	1.25 V	264	30.9	-6.3
4	477.17	28.2 QP	46.0	-17.8	1.00 V	6	31.5	-3.3
5	800.18	34.0 QP	46.0	-12.0	1.50 V	32	31.2	2.8
6	909.79	37.1 QP	46.0	-8.9	1.25 V	285	32.2	4.9

REMARKS:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



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	Dec. 11, 2019	Dec. 10, 2020
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond1-01	Sep. 05, 2019	Sep. 04, 2020
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 20, 2020	Feb. 19, 2021
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 22, 2019	Aug. 21, 2020
Software ADT	BV ADT_Cond_V7.3.7.4	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-12040.

4.2.3 Test Procedures

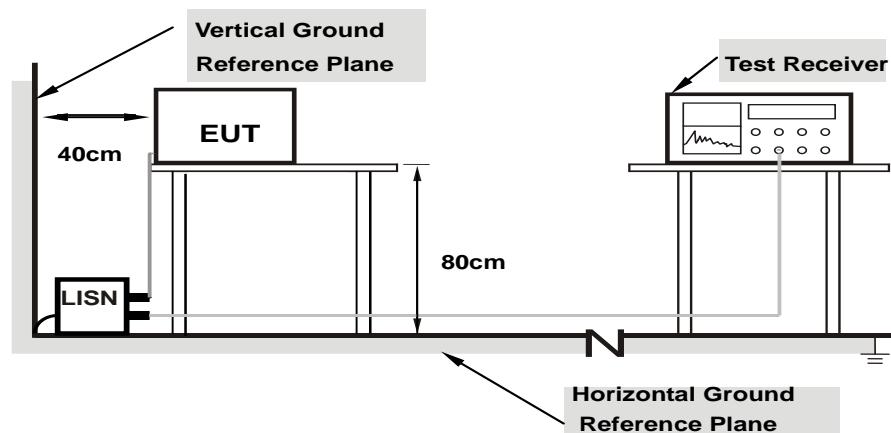
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance 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: The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

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

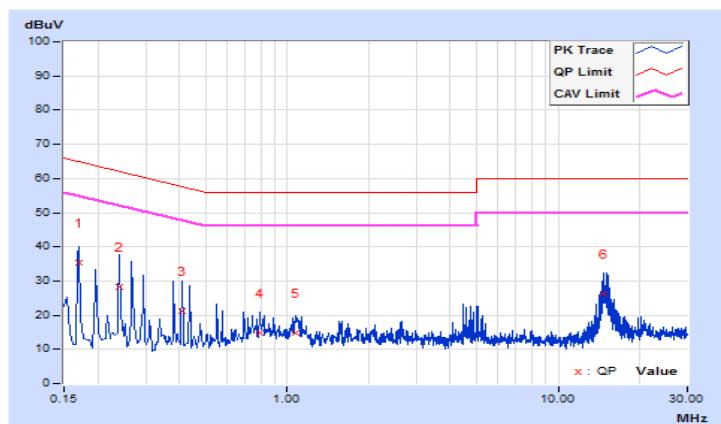
Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 66%RH
Tested by	Greg Lin	Test Date	2020/7/21
Test Mode	Mode A		

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	0.16955	9.56	25.69	1.68	35.25	11.24	64.98	54.98	-29.73	-43.74
2	0.23993	9.55	18.77	2.02	28.32	11.57	62.10	52.10	-33.78	-40.53
3	0.40806	9.57	11.57	3.52	21.14	13.09	57.69	47.69	-36.55	-34.60
4	0.79124	9.60	5.26	0.15	14.86	9.75	56.00	46.00	-41.14	-36.25
5	1.07308	9.61	5.34	0.70	14.95	10.31	56.00	46.00	-41.05	-35.69
6	14.79686	9.82	16.55	10.39	26.37	20.21	60.00	50.00	-33.63	-29.79

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

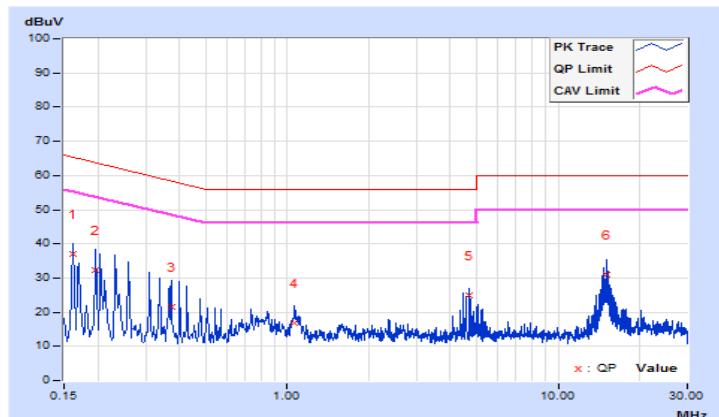


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 66%RH
Tested by	Greg Lin	Test Date	2020/7/21
Test Mode	Mode A		

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	0.16173	9.54	27.59	2.27	37.13	11.81	65.37	55.37	-28.24	-43.56
2	0.19692	9.53	22.86	1.25	32.39	10.78	63.74	53.74	-31.35	-42.96
3	0.37287	9.55	12.03	3.60	21.58	13.15	58.44	48.44	-36.86	-35.29
4	1.06463	9.59	7.39	1.45	16.98	11.04	56.00	46.00	-39.02	-34.96
5	4.67387	9.71	15.09	1.62	24.80	11.33	56.00	46.00	-31.20	-34.67
6	15.01973	9.85	21.28	15.32	31.13	25.17	60.00	50.00	-28.87	-24.83

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

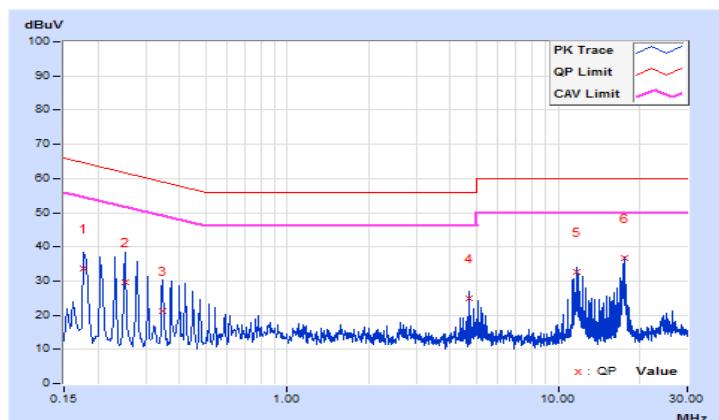


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 75%RH
Tested by	Greg Lin	Test Date	2020/7/16
Test Mode	Mode B		

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	0.17737	9.55	24.19	12.46	33.74	22.01	64.61	54.61	-30.87	-32.60
2	0.25166	9.56	20.13	11.68	29.69	21.24	61.70	51.70	-32.01	-30.46
3	0.34550	9.56	11.53	6.77	21.09	16.33	59.07	49.07	-37.98	-32.74
4	4.66831	9.73	15.30	11.20	25.03	20.93	56.00	46.00	-30.97	-25.07
5	11.68059	9.80	22.91	21.71	32.71	31.51	60.00	50.00	-27.29	-18.49
6	17.51822	9.83	26.88	26.06	36.71	35.89	60.00	50.00	-23.29	-14.11

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

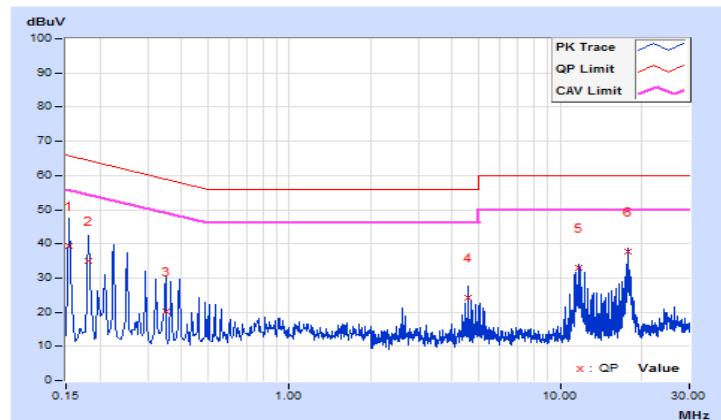


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 75%RH
Tested by	Greg Lin	Test Date	2020/7/16
Test Mode	Mode B		

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	0.15391	9.54	29.88	13.53	39.42	23.07	65.79	55.79	-26.37	-32.72
2	0.18128	9.53	25.57	11.26	35.10	20.79	64.43	54.43	-29.33	-33.64
3	0.34941	9.54	10.54	7.31	20.08	16.85	58.98	48.98	-38.90	-32.13
4	4.57221	9.71	14.65	10.10	24.36	19.81	56.00	46.00	-31.64	-26.19
5	11.68059	9.81	23.06	21.41	32.87	31.22	60.00	50.00	-27.13	-18.78
6	17.92095	9.87	27.86	26.13	37.73	36.00	60.00	50.00	-22.27	-14.00

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

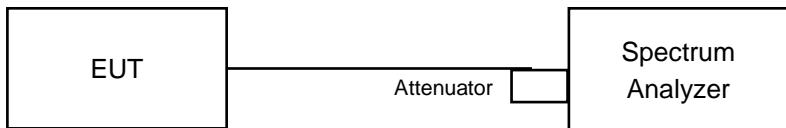


4.3 6 dB Bandwidth Measurement

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

- a. Set resolution bandwidth (RBW) = 100 kHz
- b. Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- c. Trace mode = max hold.
- d. Sweep = auto couple.
- e. 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 Results

Mode A

802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	10.10	0.5	Pass
6	2437	10.11	0.5	Pass
11	2462	10.11	0.5	Pass

802.11g

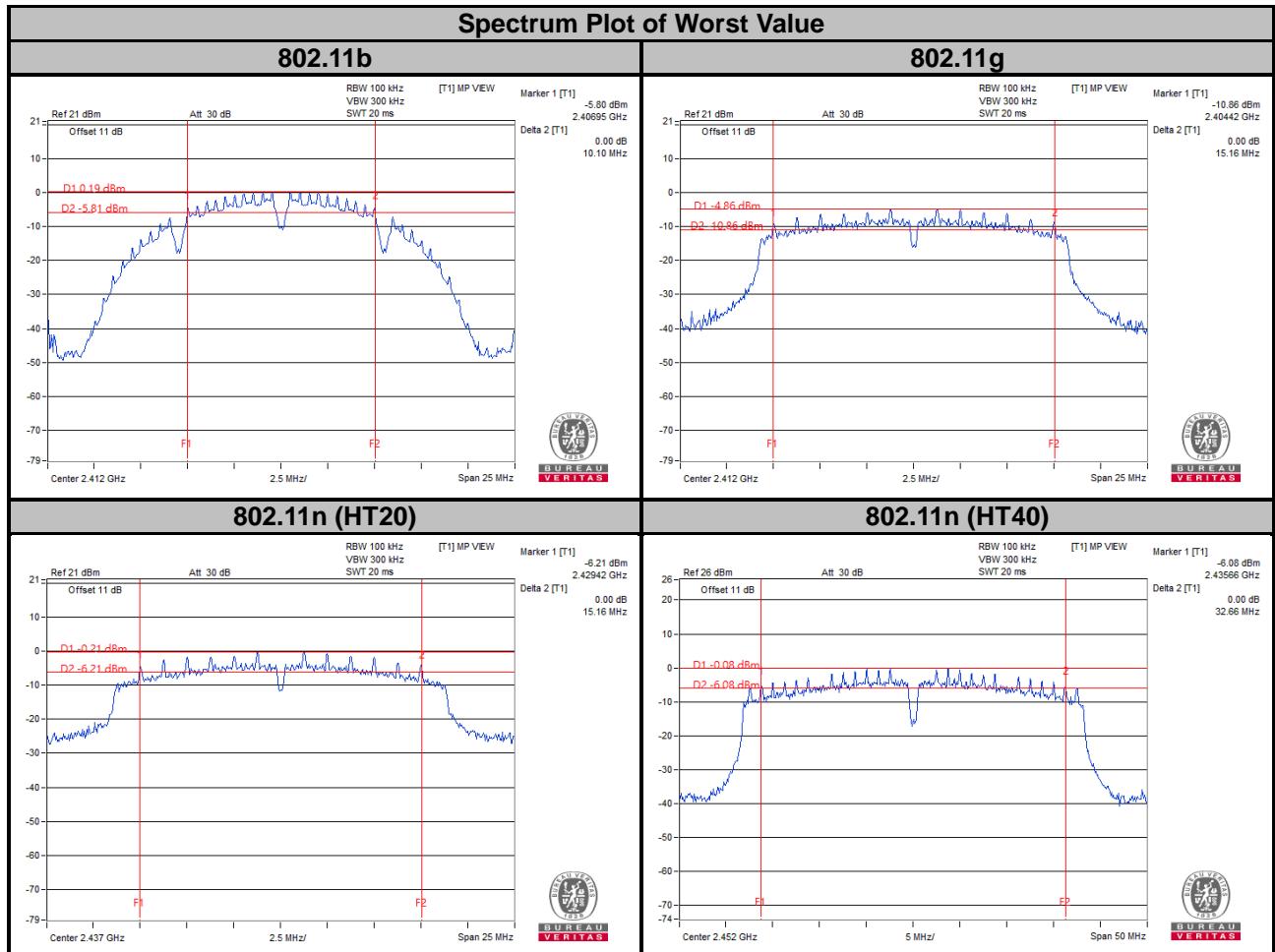
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	15.16	0.5	Pass
6	2437	15.16	0.5	Pass
11	2462	15.16	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	15.17	0.5	Pass
6	2437	15.16	0.5	Pass
11	2462	15.17	0.5	Pass

802.11n (HT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	33.91	0.5	Pass
6	2437	33.92	0.5	Pass
9	2452	32.66	0.5	Pass



Mode B
802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	10.12	0.5	Pass
6	2437	10.07	0.5	Pass
11	2462	10.10	0.5	Pass

802.11g

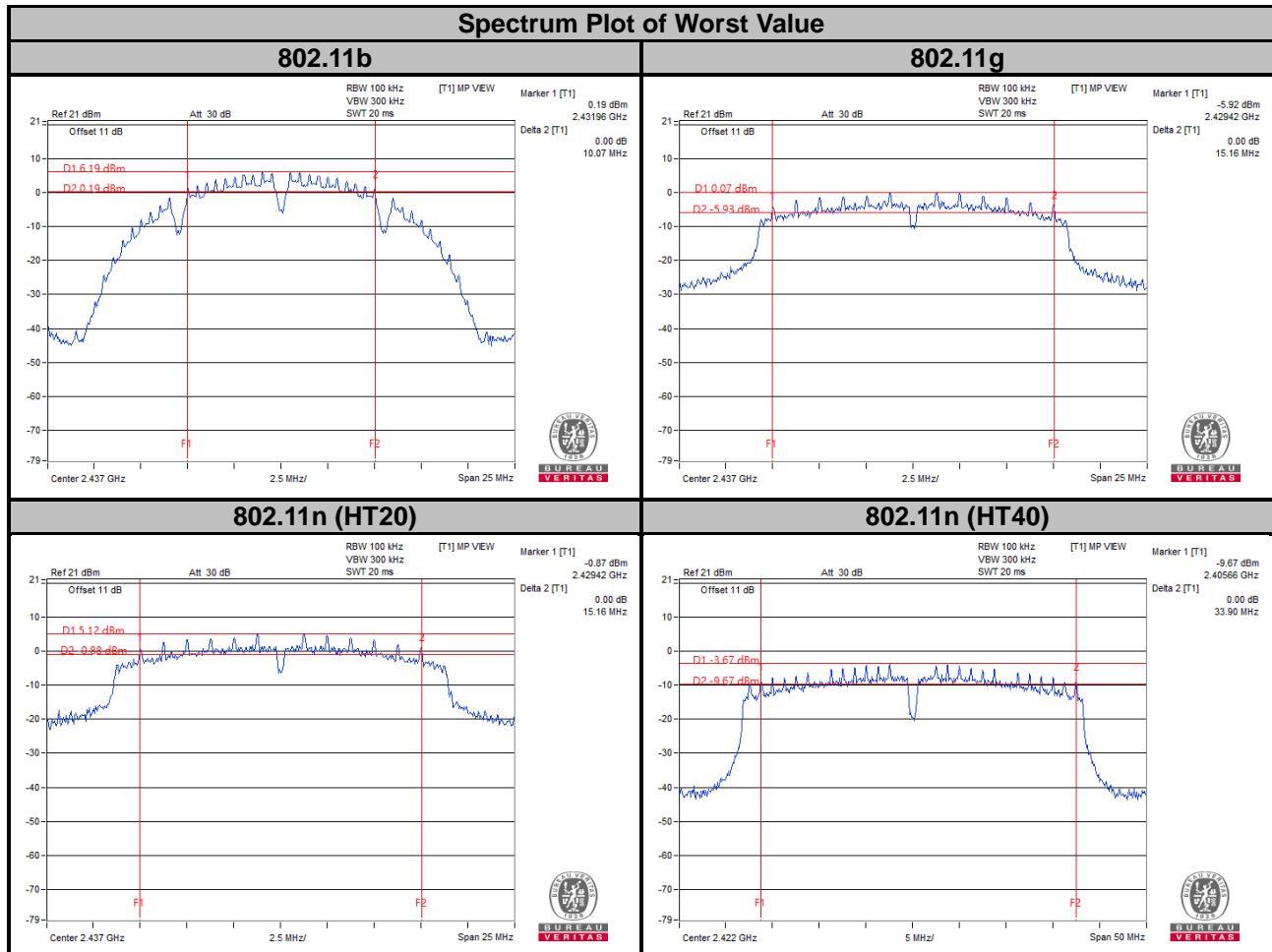
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	15.17	0.5	Pass
6	2437	15.16	0.5	Pass
11	2462	15.17	0.5	Pass

802.11n (HT20)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	15.17	0.5	Pass
6	2437	15.16	0.5	Pass
11	2462	15.17	0.5	Pass

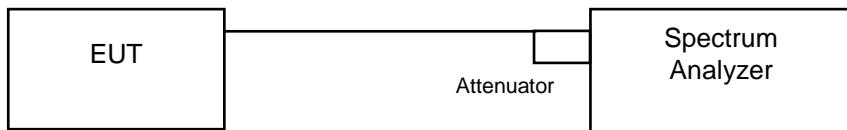
802.11n (HT40)

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
3	2422	33.90	0.5	Pass
6	2437	33.94	0.5	Pass
9	2452	35.11	0.5	Pass



4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1 % to 5 % of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

4.4.4 Deviation from Test Standard

No deviation.

4.4.5 EUT Operating Conditions

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

4.4.6 Test Results

Mode A

802.11b

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	14.60	Pass
6	2437	14.76	Pass
11	2462	14.76	Pass

802.11g

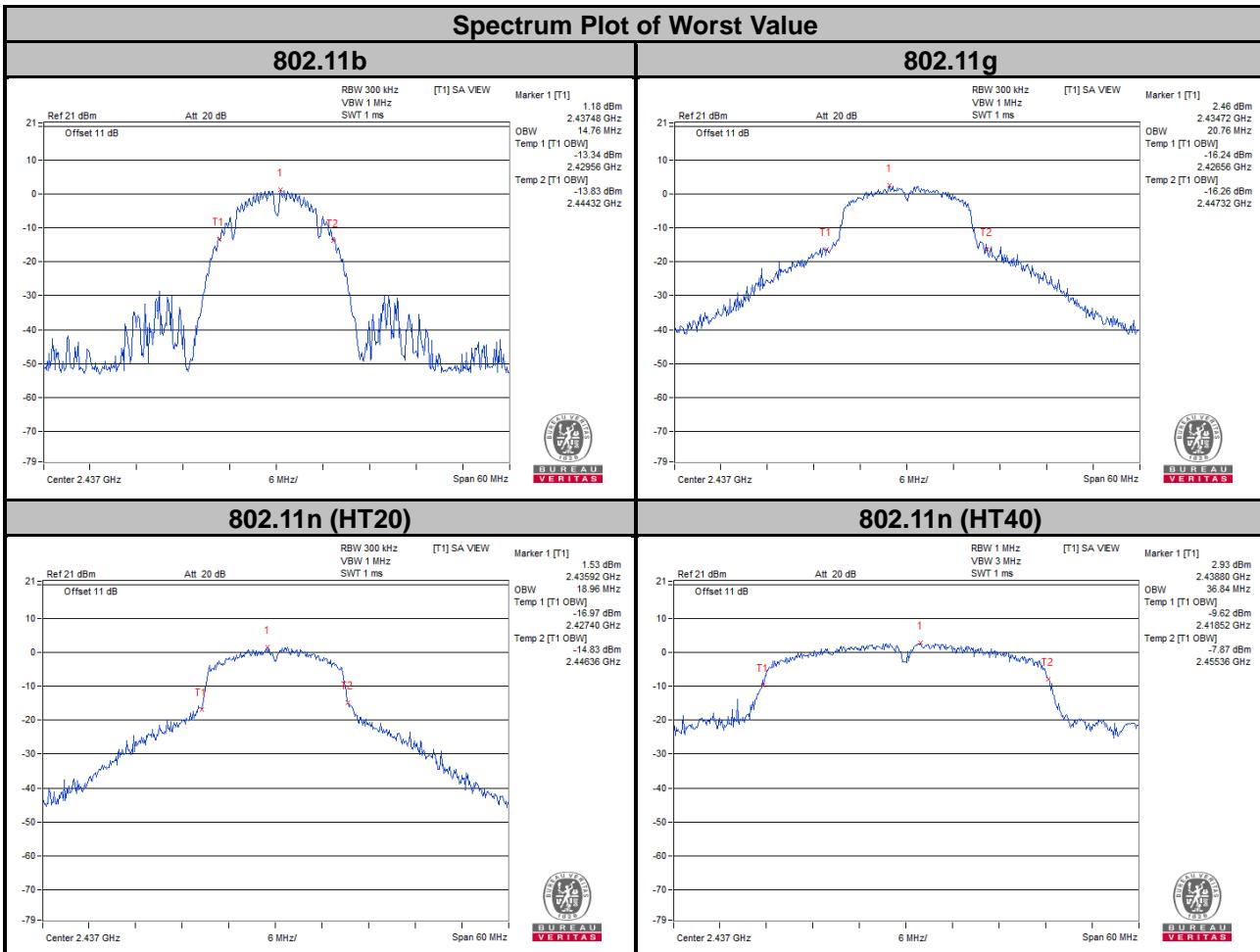
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	16.44	Pass
6	2437	20.76	Pass
11	2462	16.34	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	17.52	Pass
6	2437	18.96	Pass
11	2462	17.56	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
3	2422	35.76	Pass
6	2437	36.84	Pass
9	2452	35.82	Pass



Mode B
802.11b

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	14.60	Pass
6	2437	14.64	Pass
11	2462	14.52	Pass

802.11g

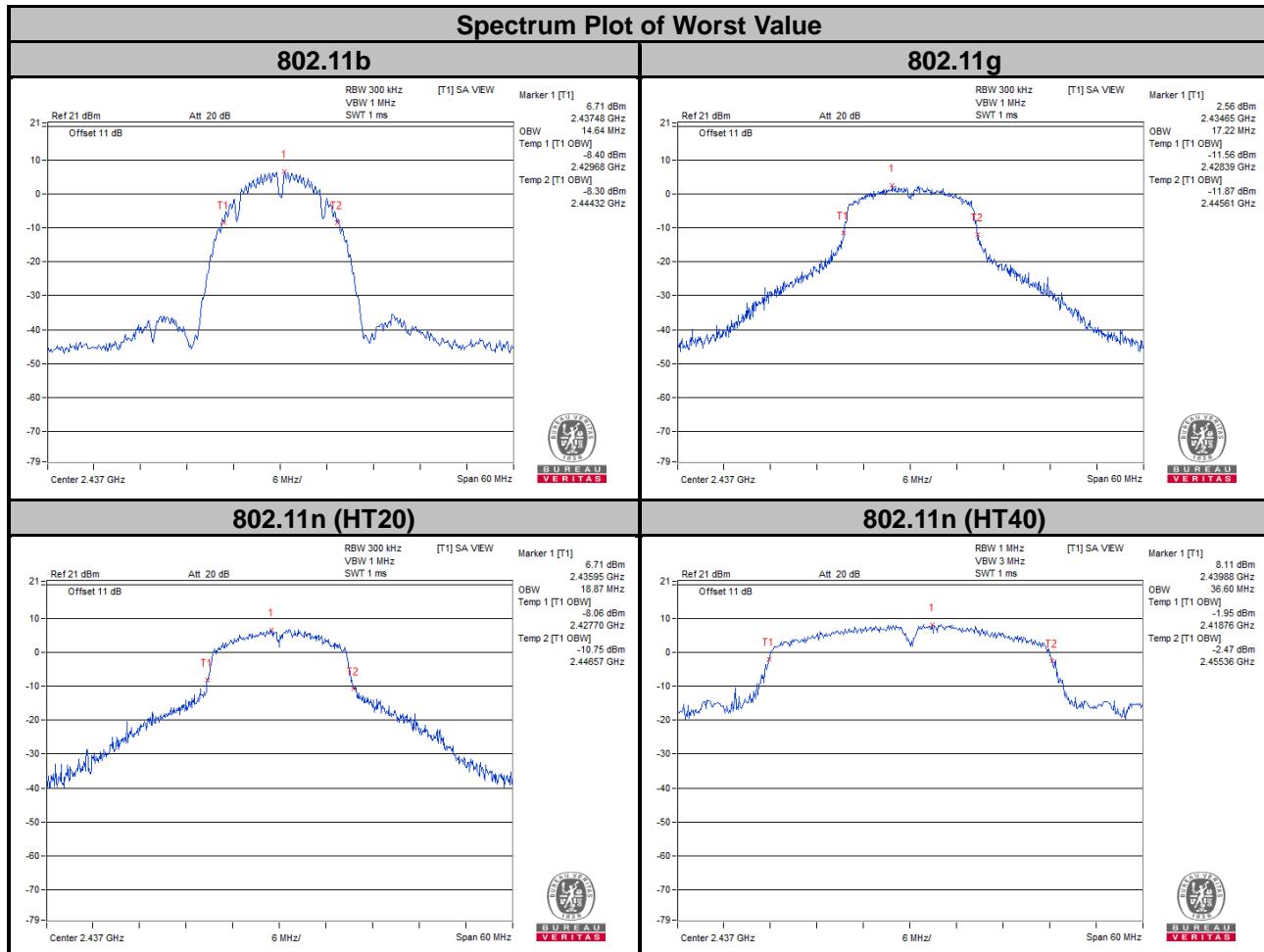
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	16.32	Pass
6	2437	17.22	Pass
11	2462	16.32	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	17.52	Pass
6	2437	18.87	Pass
11	2462	17.48	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
3	2422	35.76	Pass
6	2437	36.60	Pass
9	2452	35.74	Pass

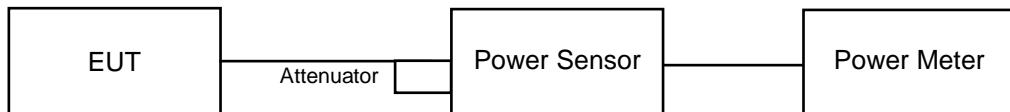


4.5 Conducted Output Power Measurement

4.5.1 Limits of Conducted Output Power Measurement

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

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Conditions

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

4.5.7 Test Results

Mode A

802.11b

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	10.544	10.23	30	Pass
6	2437	11.722	10.69	30	Pass
11	2462	10.52	10.22	30	Pass

802.11g

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	14.555	11.63	30	Pass
6	2437	21.429	13.31	30	Pass
11	2462	20.941	13.21	30	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	13.583	11.33	30	Pass
6	2437	20.797	13.18	30	Pass
11	2462	18.45	12.66	30	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	13.305	11.24	30	Pass
6	2437	17.458	12.42	30	Pass
9	2452	48.978	16.90	30	Pass

Mode B
802.11b

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	28.576	14.56	30	Pass
6	2437	27.29	14.36	30	Pass
11	2462	25.235	14.02	30	Pass

802.11g

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	37.584	15.75	30	Pass
6	2437	52.602	17.21	30	Pass
11	2462	30.549	14.85	30	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	53.827	17.31	30	Pass
6	2437	59.293	17.73	30	Pass
11	2462	44.875	16.52	30	Pass

802.11n (HT40)

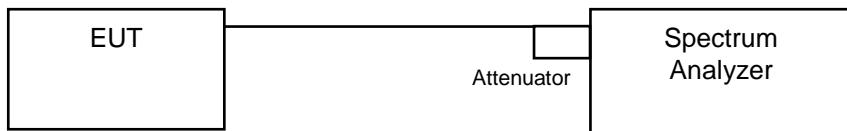
Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass / Fail
3	2422	53.58	17.29	30	Pass
6	2437	51.404	17.11	30	Pass
9	2452	48.978	16.90	30	Pass

4.6 Power Spectral Density Measurement

4.6.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz band during any time interval of continuous transmission.

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

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

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

Mode A

802.11b

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-13.08	8	Pass
6	2437	-13.51	8	Pass
11	2462	-14.33	8	Pass

802.11g

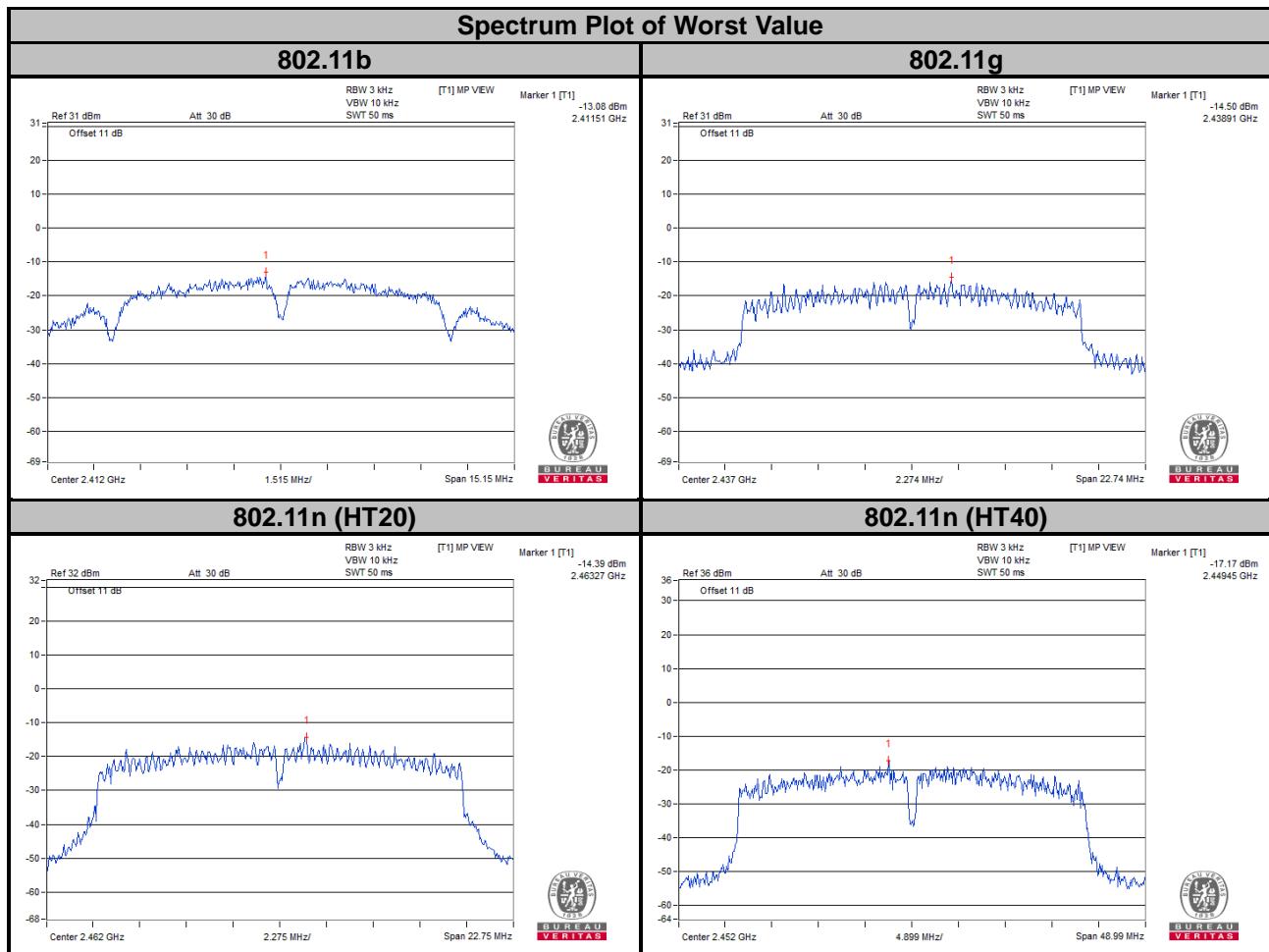
Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-19.52	8	Pass
6	2437	-14.50	8	Pass
11	2462	-15.17	8	Pass

802.11n (HT20)

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-20.44	8	Pass
6	2437	-16.19	8	Pass
11	2462	-14.39	8	Pass

802.11n (HT40)

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
3	2422	-25.91	8	Pass
6	2437	-22.36	8	Pass
9	2452	-17.17	8	Pass



Mode B
802.11b

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-8.49	8	Pass
6	2437	-7.49	8	Pass
11	2462	-8.23	8	Pass

802.11g

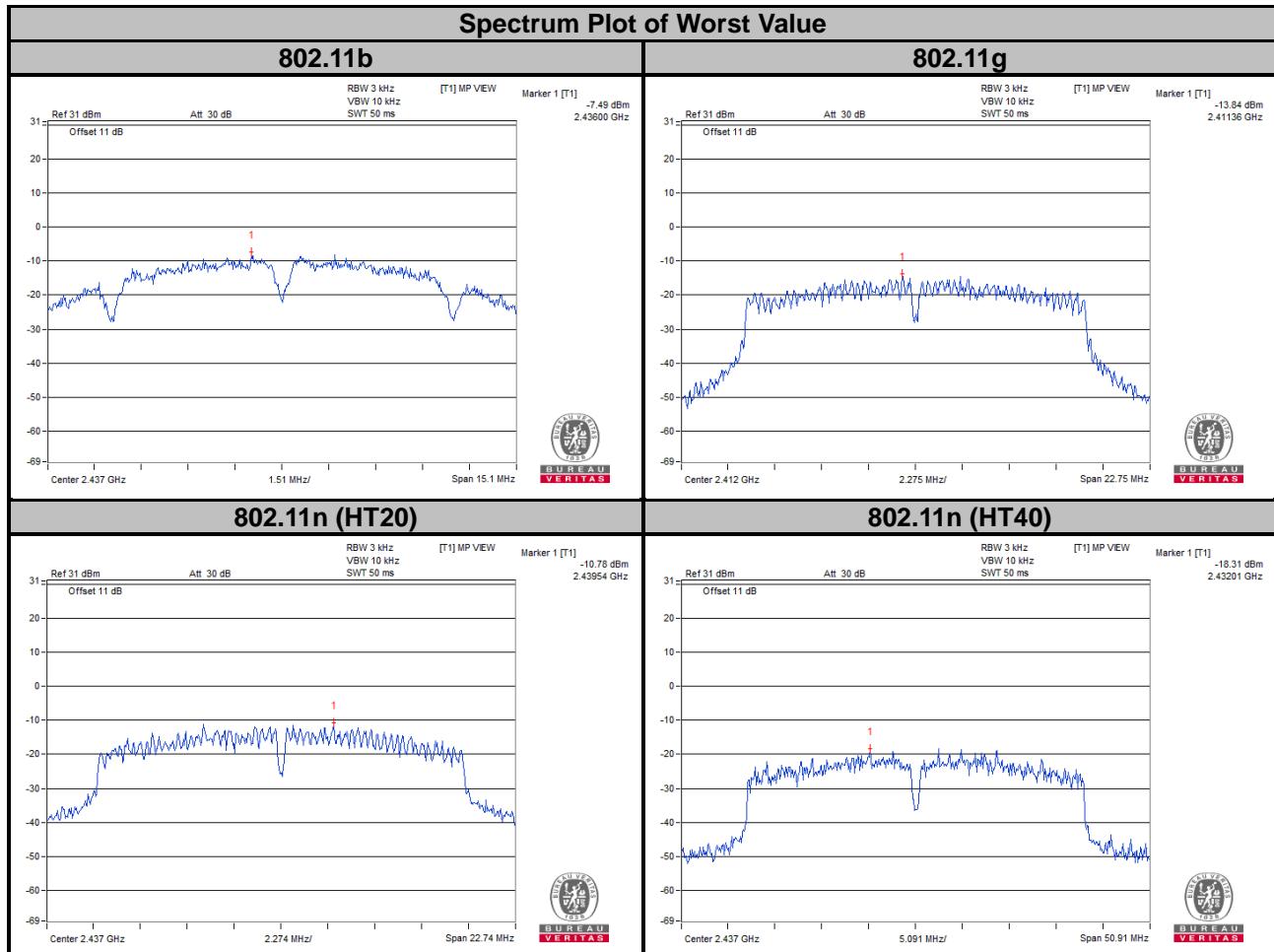
Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-13.84	8	Pass
6	2437	-14.82	8	Pass
11	2462	-18.90	8	Pass

802.11n (HT20)

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-14.98	8	Pass
6	2437	-10.78	8	Pass
11	2462	-15.91	8	Pass

802.11n (HT40)

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
3	2422	-19.60	8	Pass
6	2437	-18.31	8	Pass
9	2452	-18.52	8	Pass

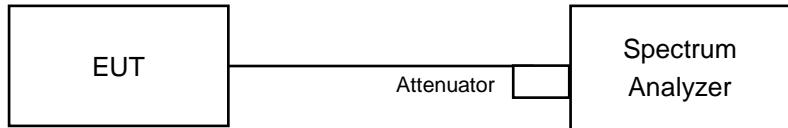


4.7 Conducted Out of Band Emission Measurement

4.7.1 Limits of Conducted Out of Band Emission Measurement

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

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 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 OOB

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.

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

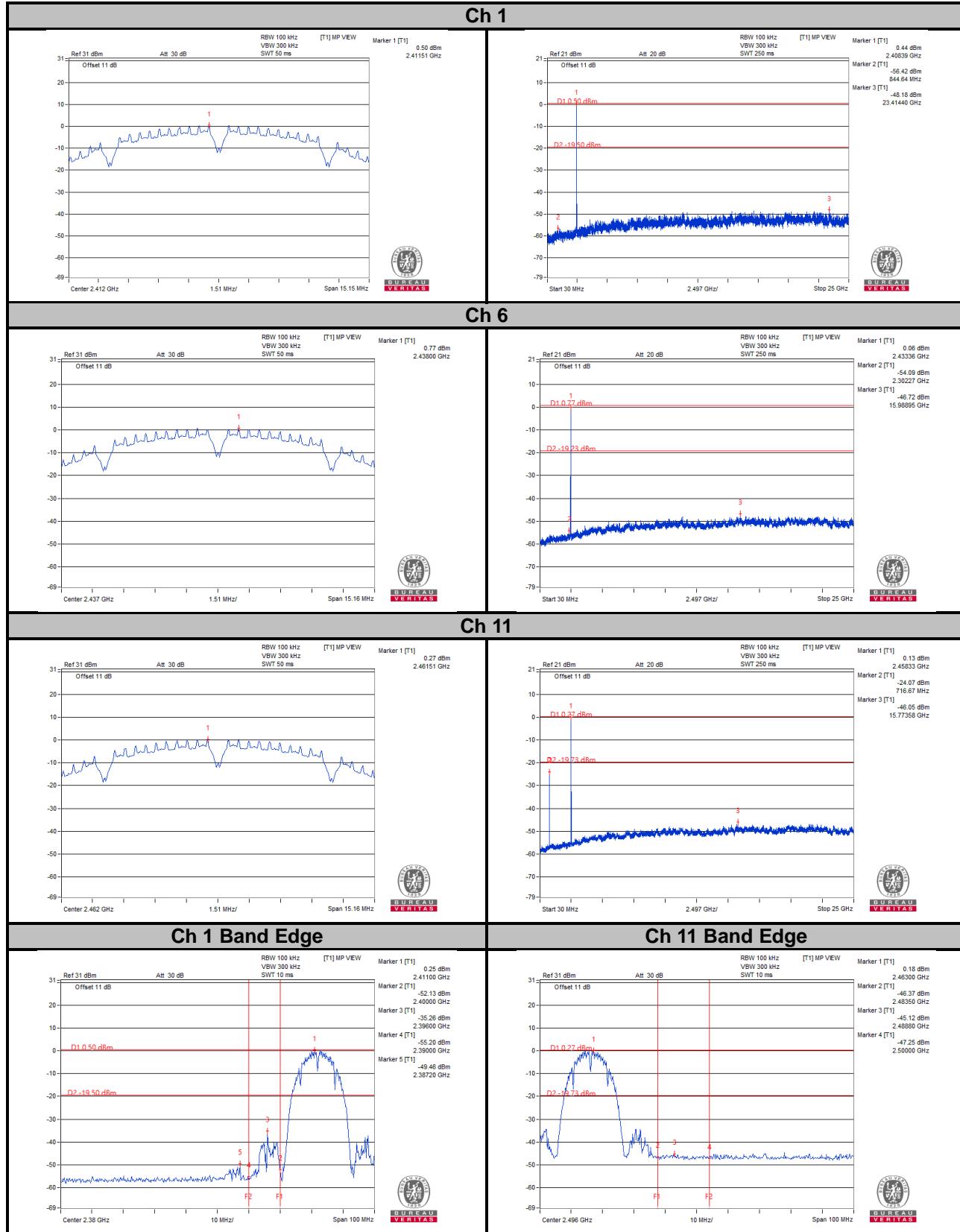
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.7.7 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.

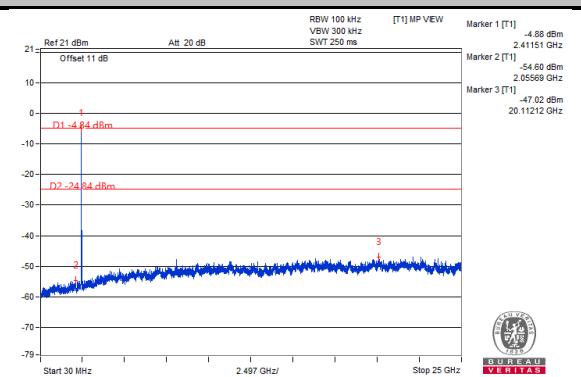
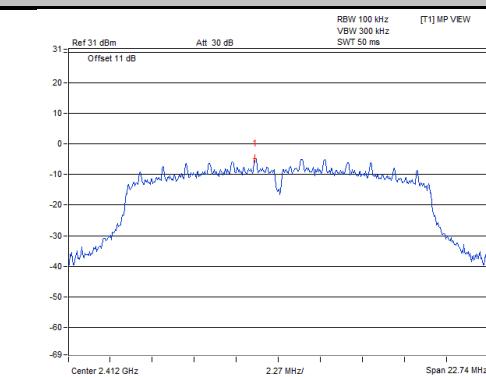
Mode A

802.11b

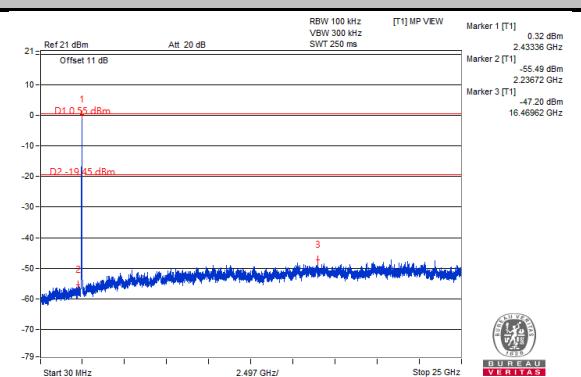
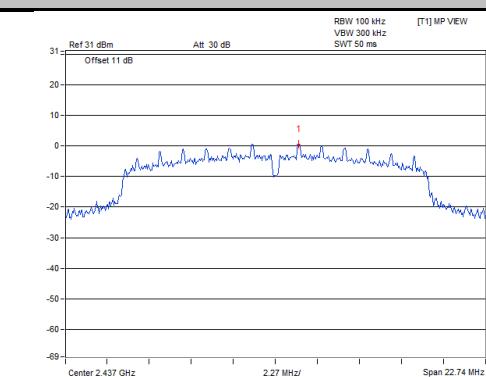


802.11g

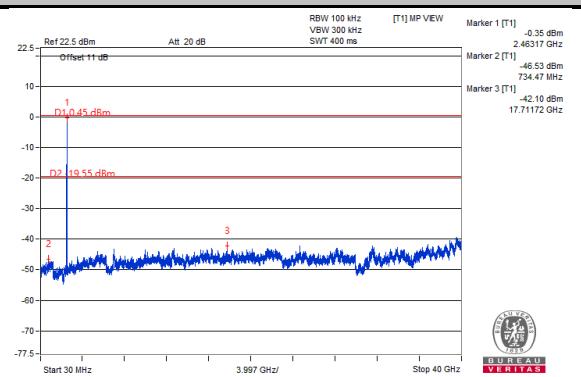
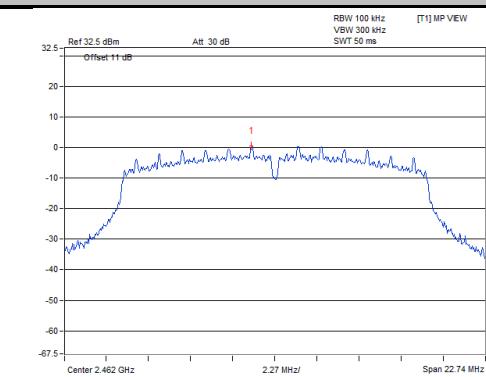
Ch 1



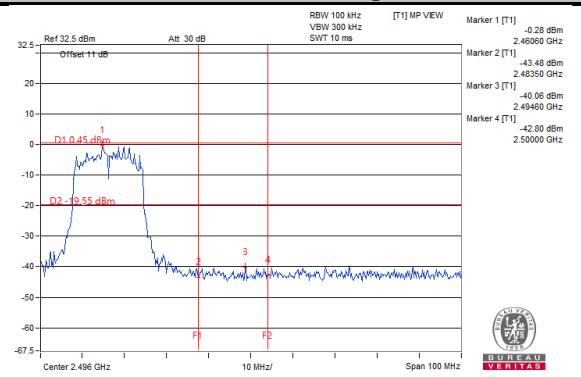
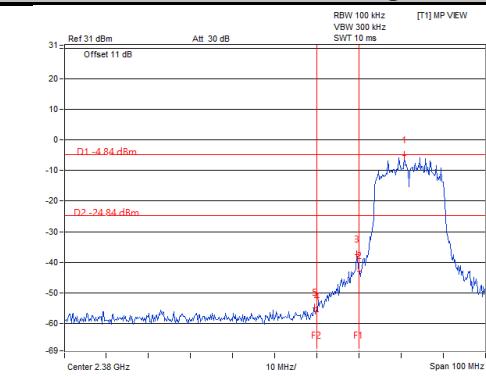
Ch 6



Ch 11

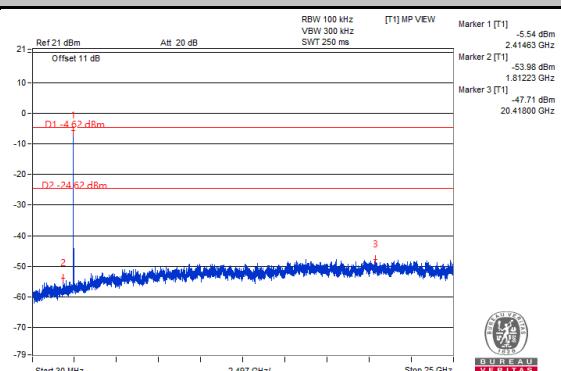
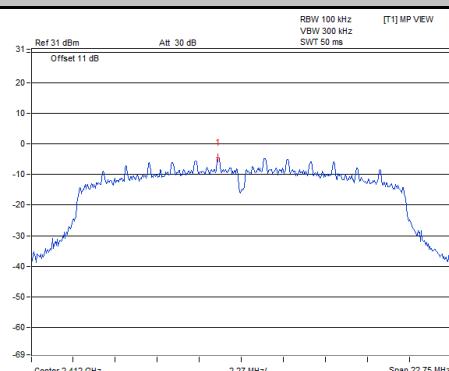


Ch 1 Band Edge

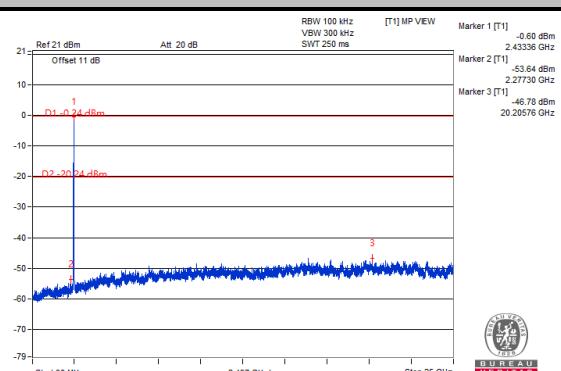
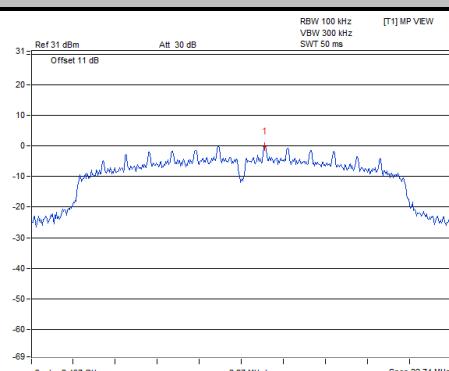


802.11n (HT20)

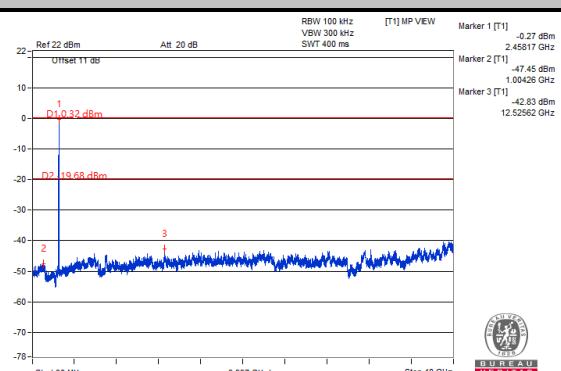
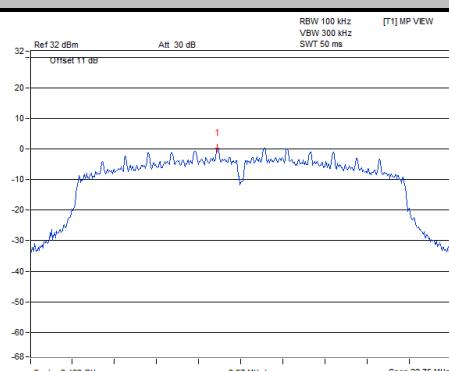
Ch 1



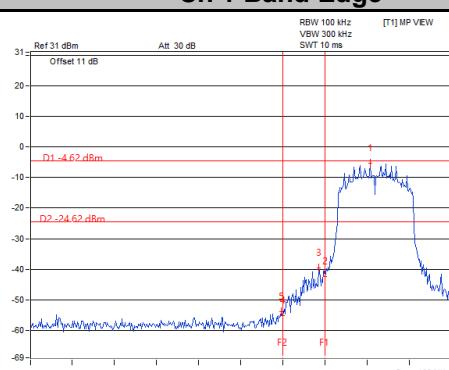
Ch 6



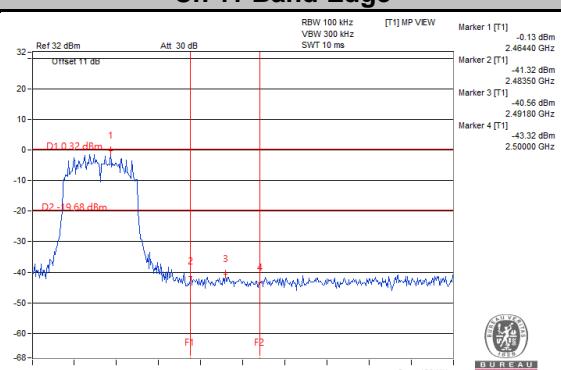
Ch 11



Ch 1 Band Edge

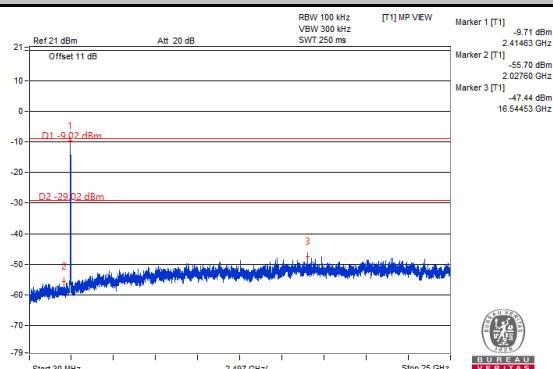
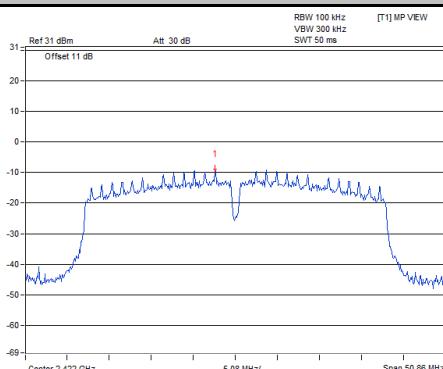


Ch 11 Band Edge

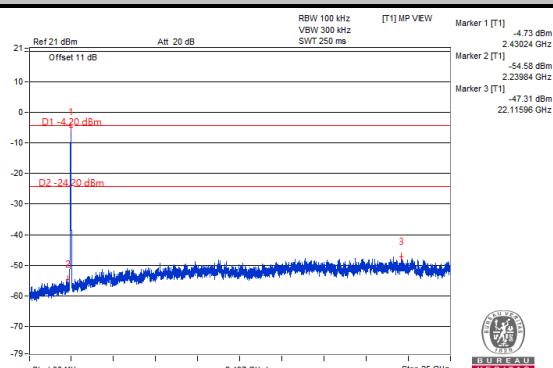
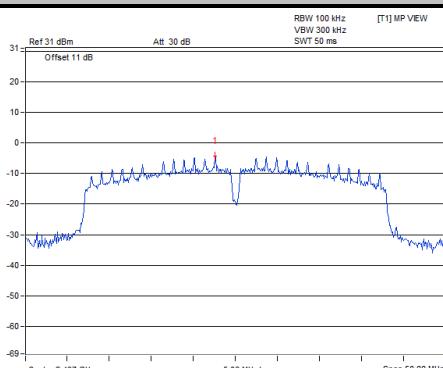


802.11n (HT40)

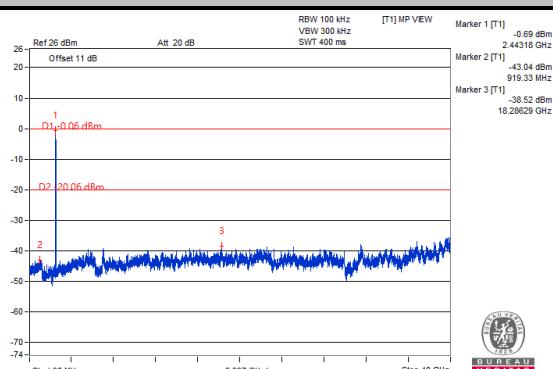
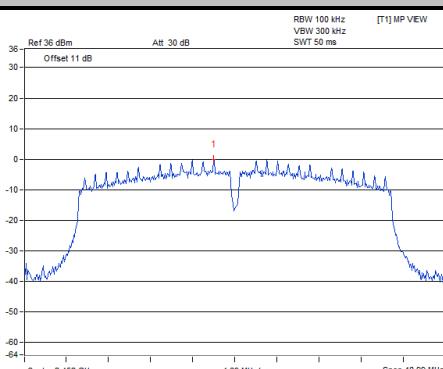
Ch 3



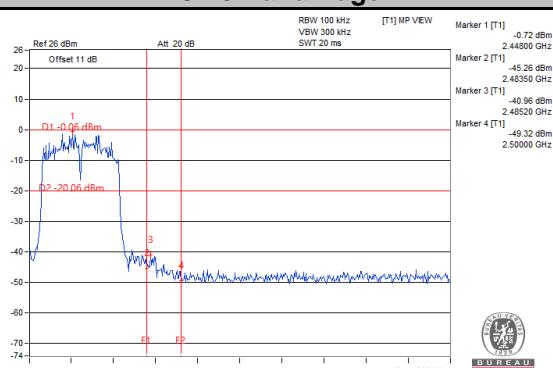
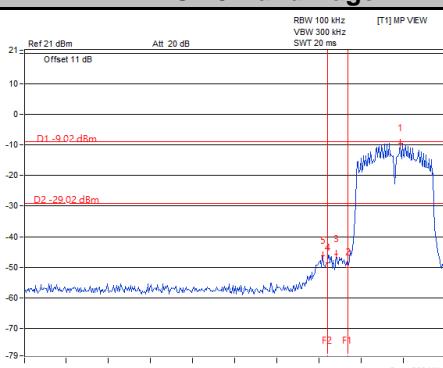
Ch 6



Ch 9

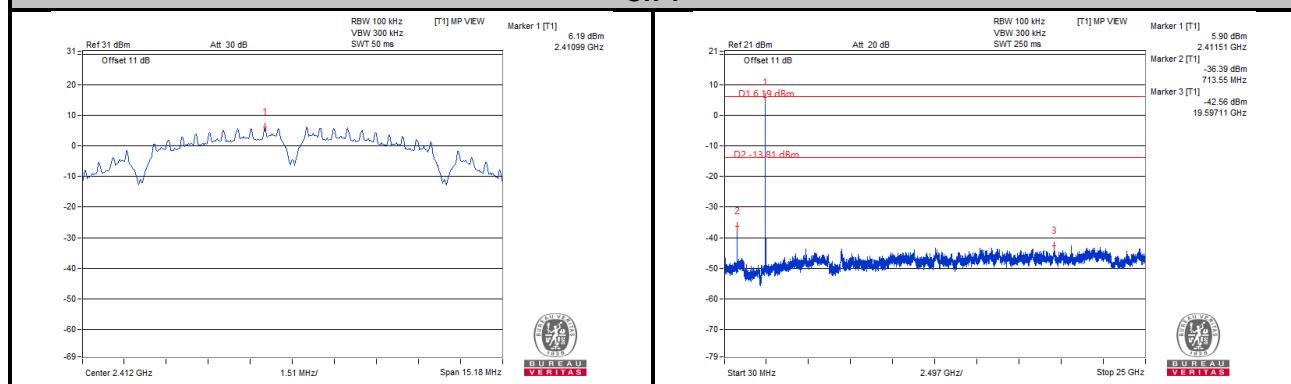


Ch 3 Band Edge

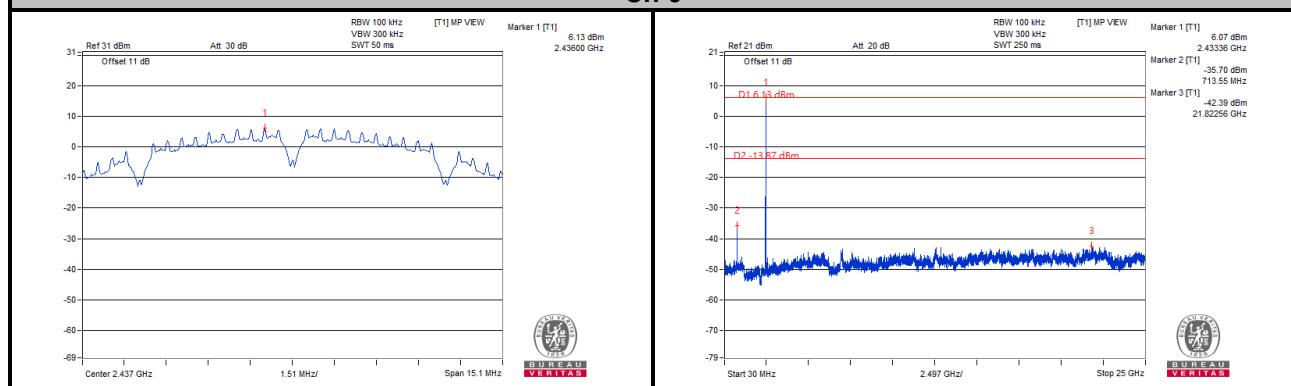


Mode B 802.11b

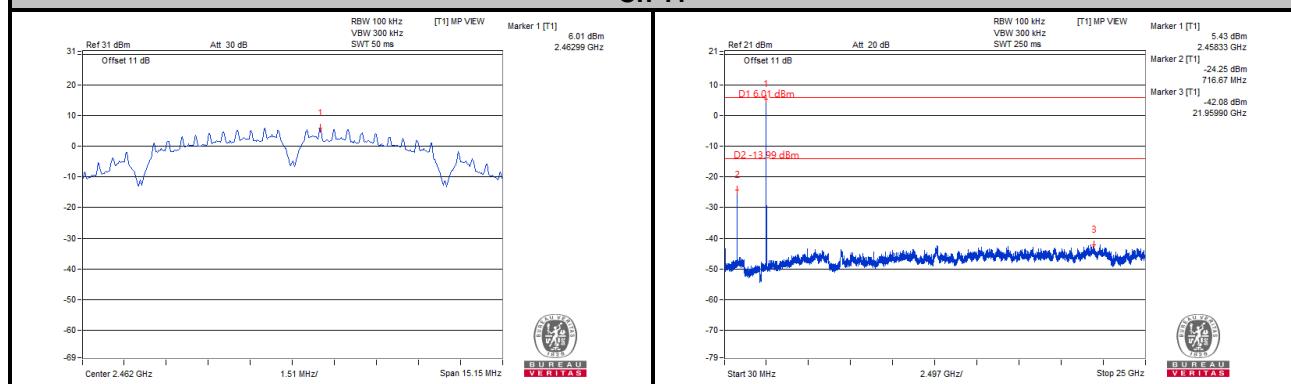
Ch 1



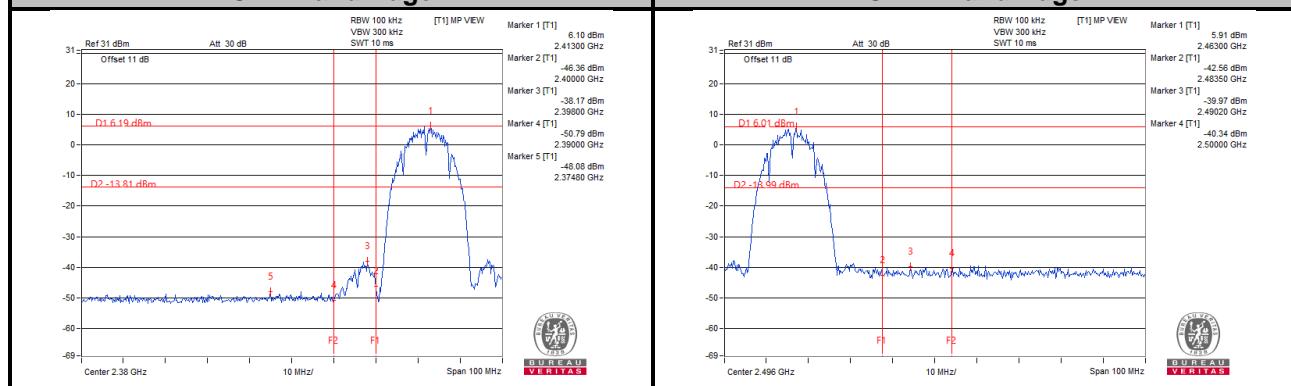
Ch 6



Ch 11

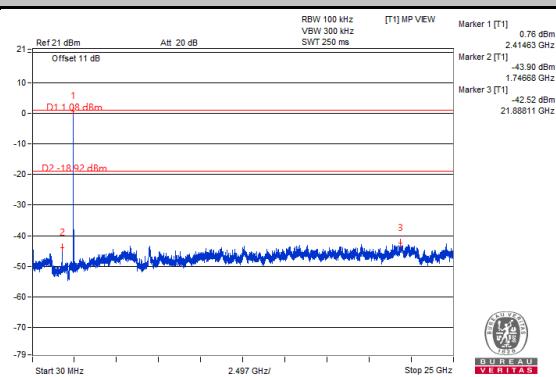
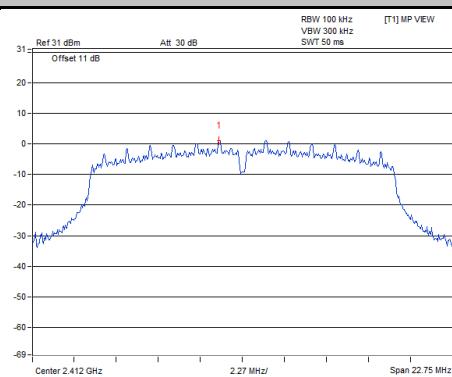


Ch 1 Band Edge

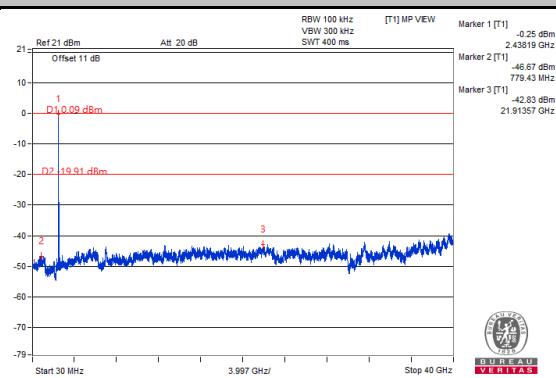
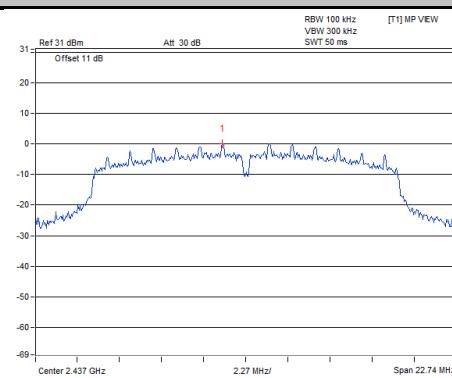


802.11g

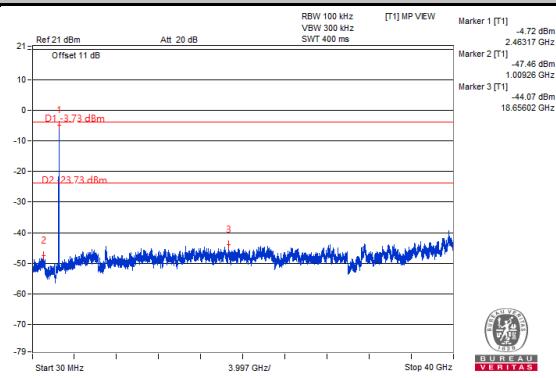
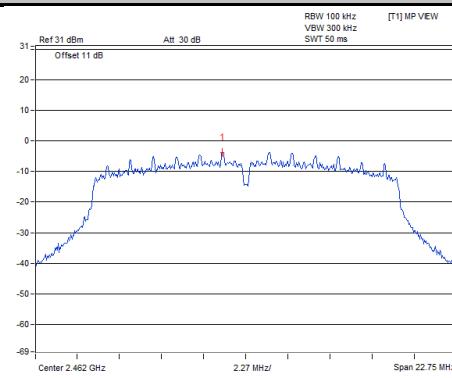
Ch 1



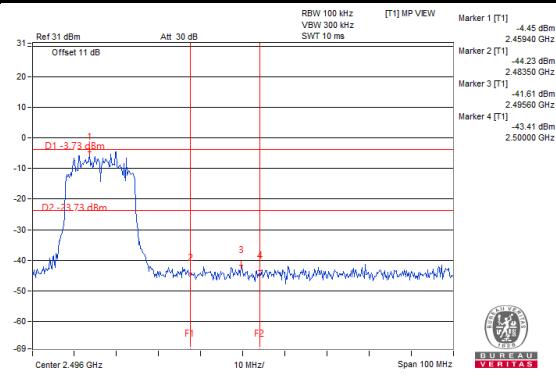
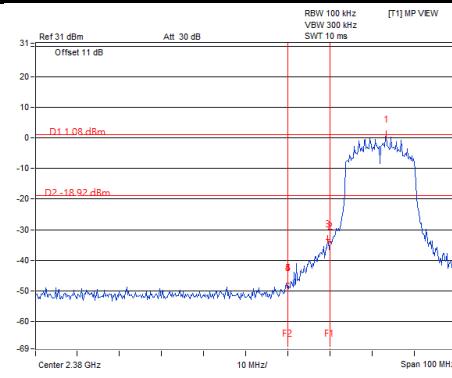
Ch 6



Ch 11

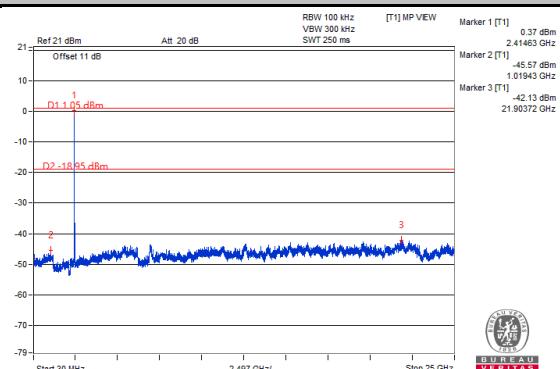
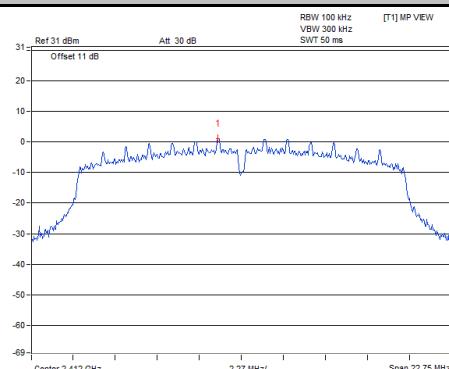


Ch 1 Band Edge

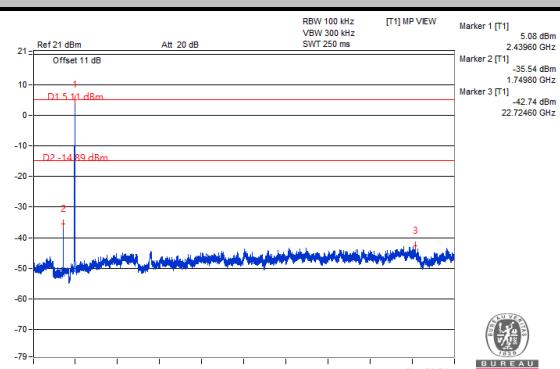
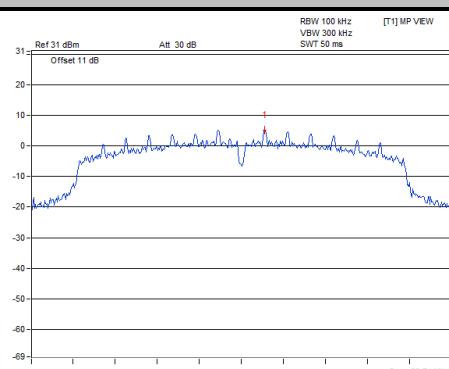


802.11n (HT20)

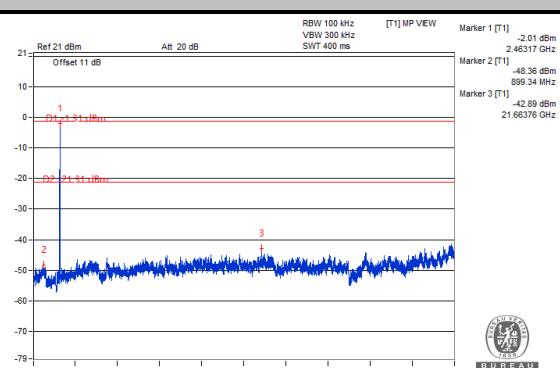
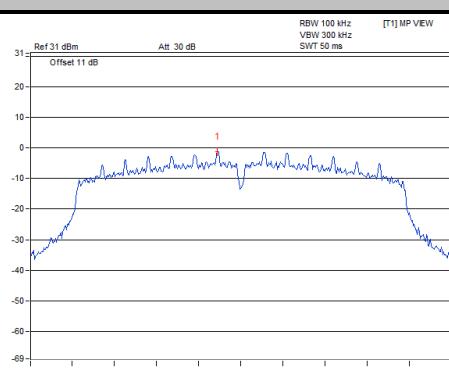
Ch 1



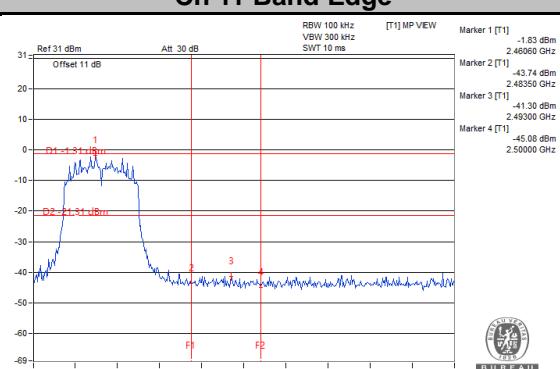
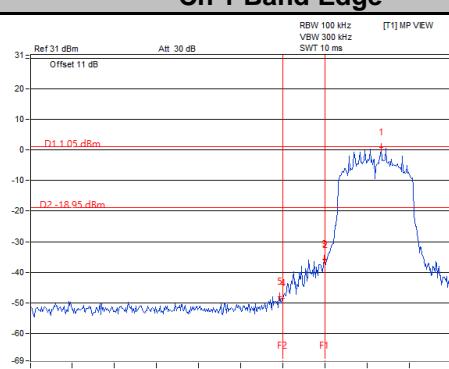
Ch 6



Ch 11

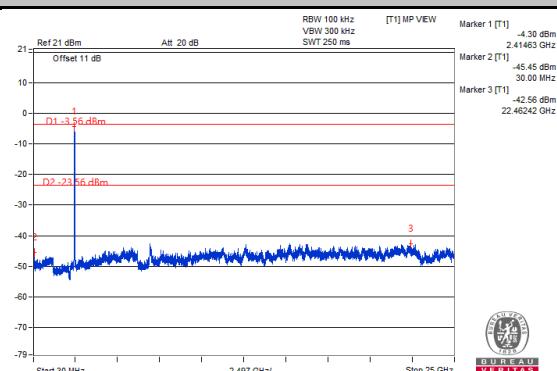
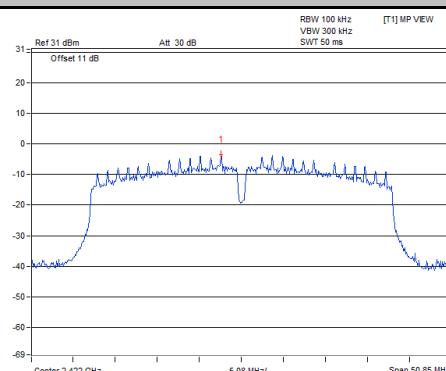


Ch 1 Band Edge

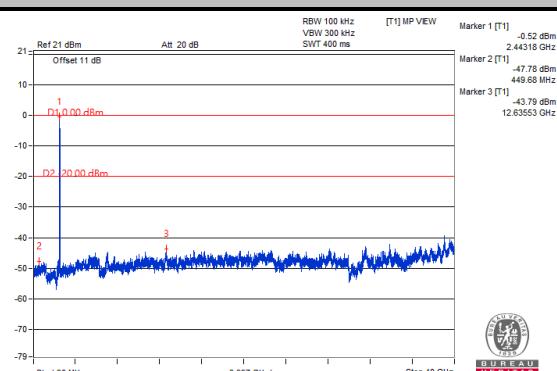
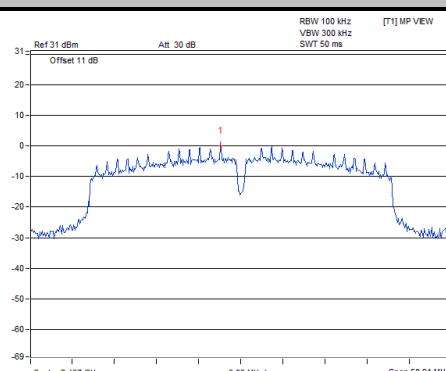


802.11n (HT40)

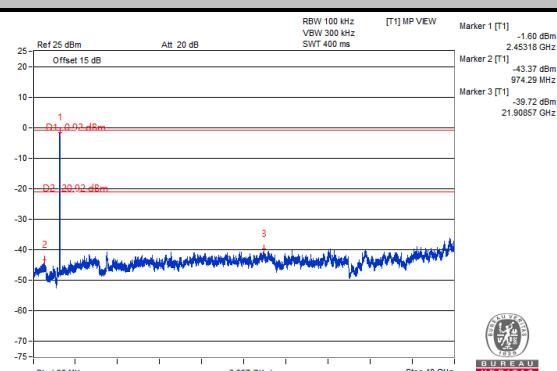
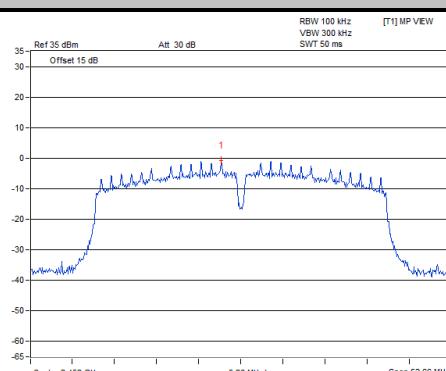
Ch 3



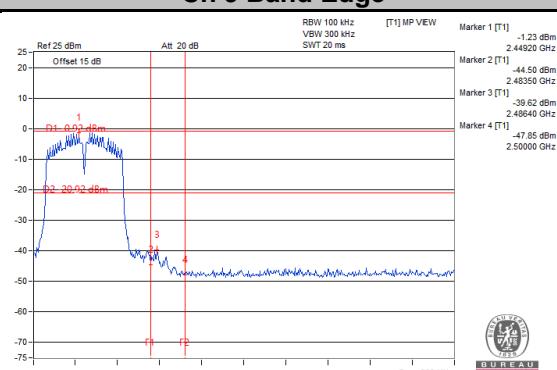
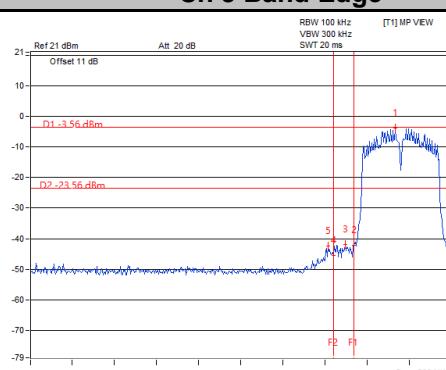
Ch 6



Ch 9



Ch 3 Band Edge



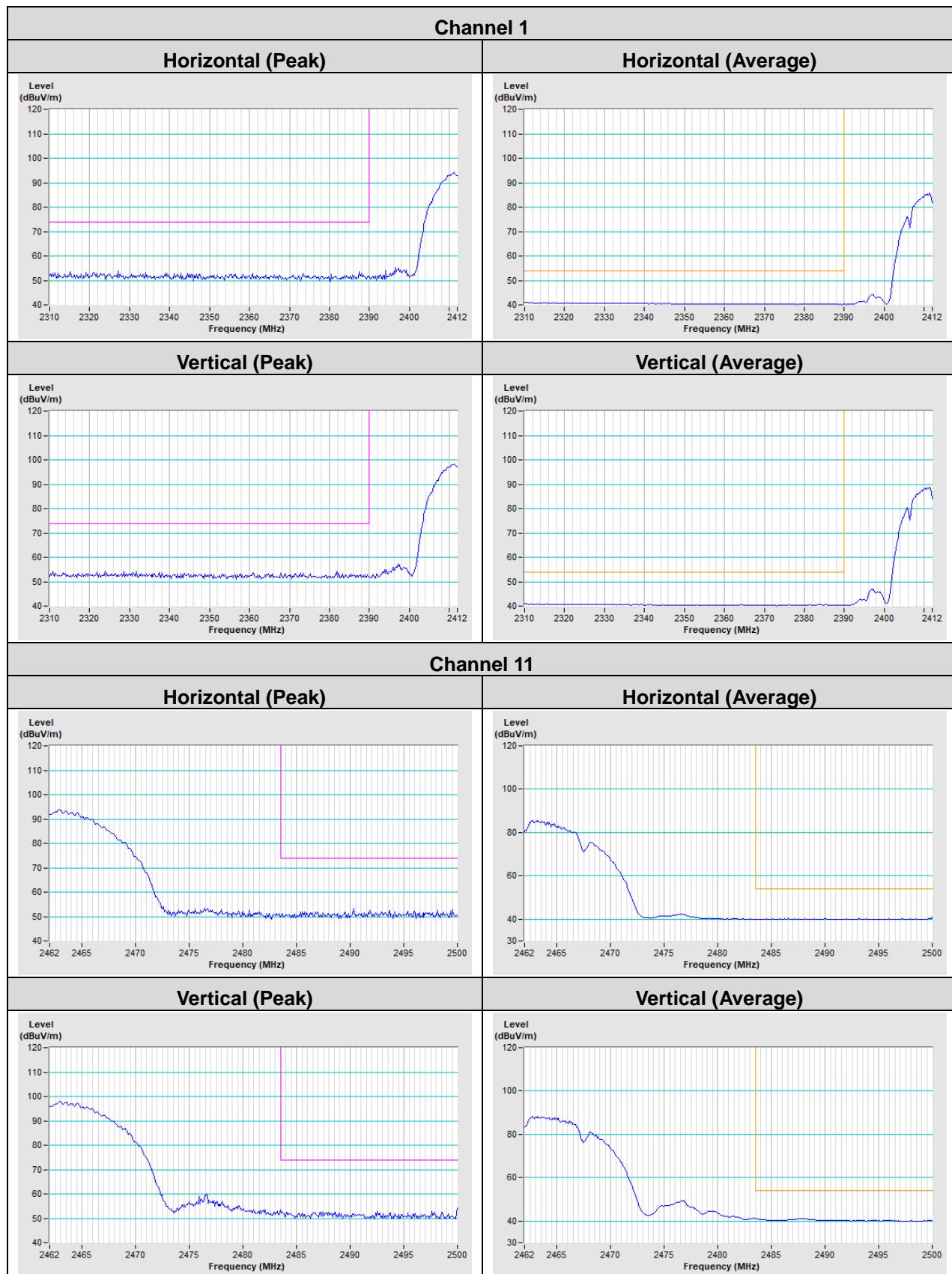
5 Pictures of Test Arrangements

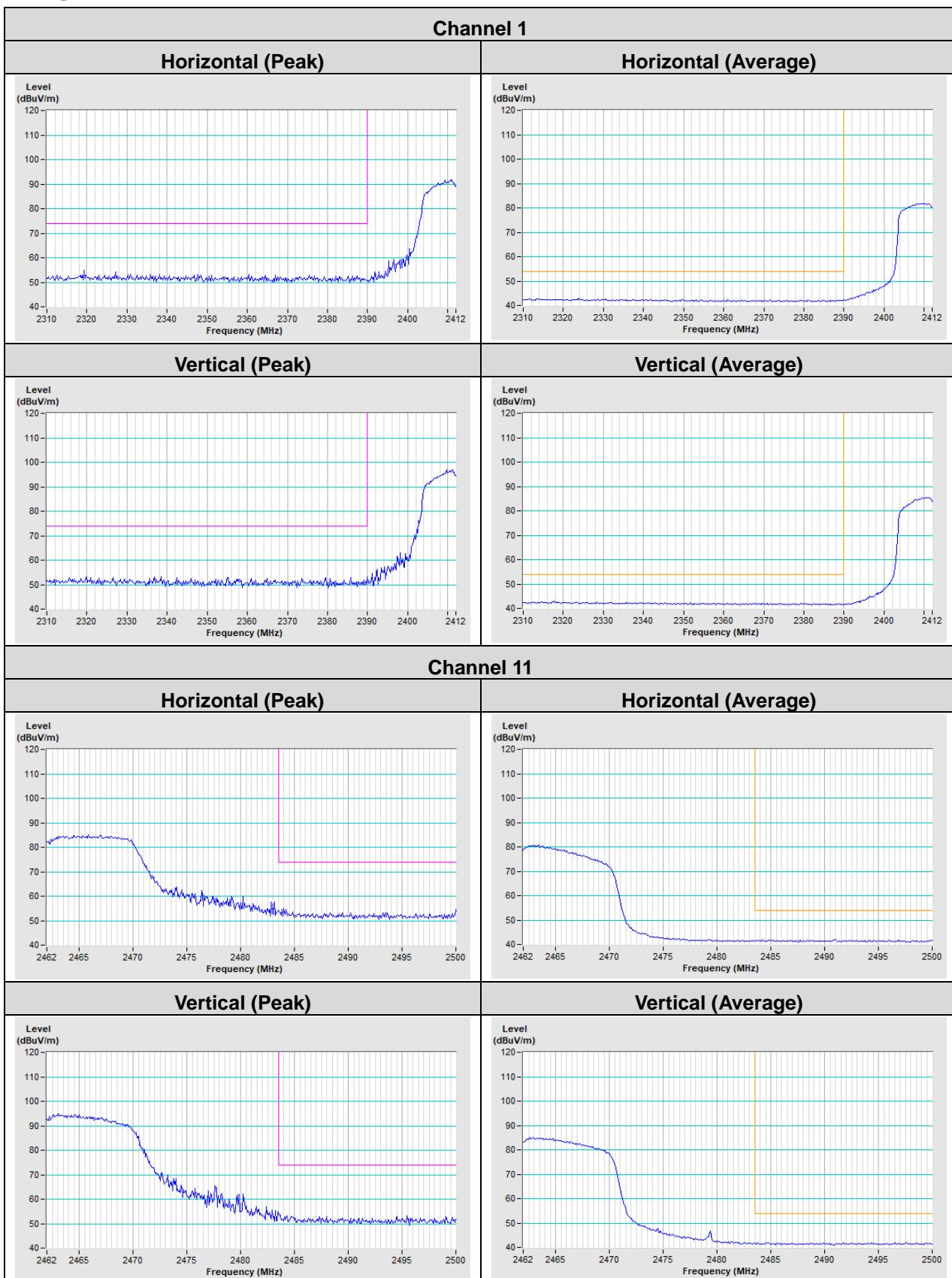
Please refer to the attached file (Test Setup Photo).

Annex A- Band Edge Measurement

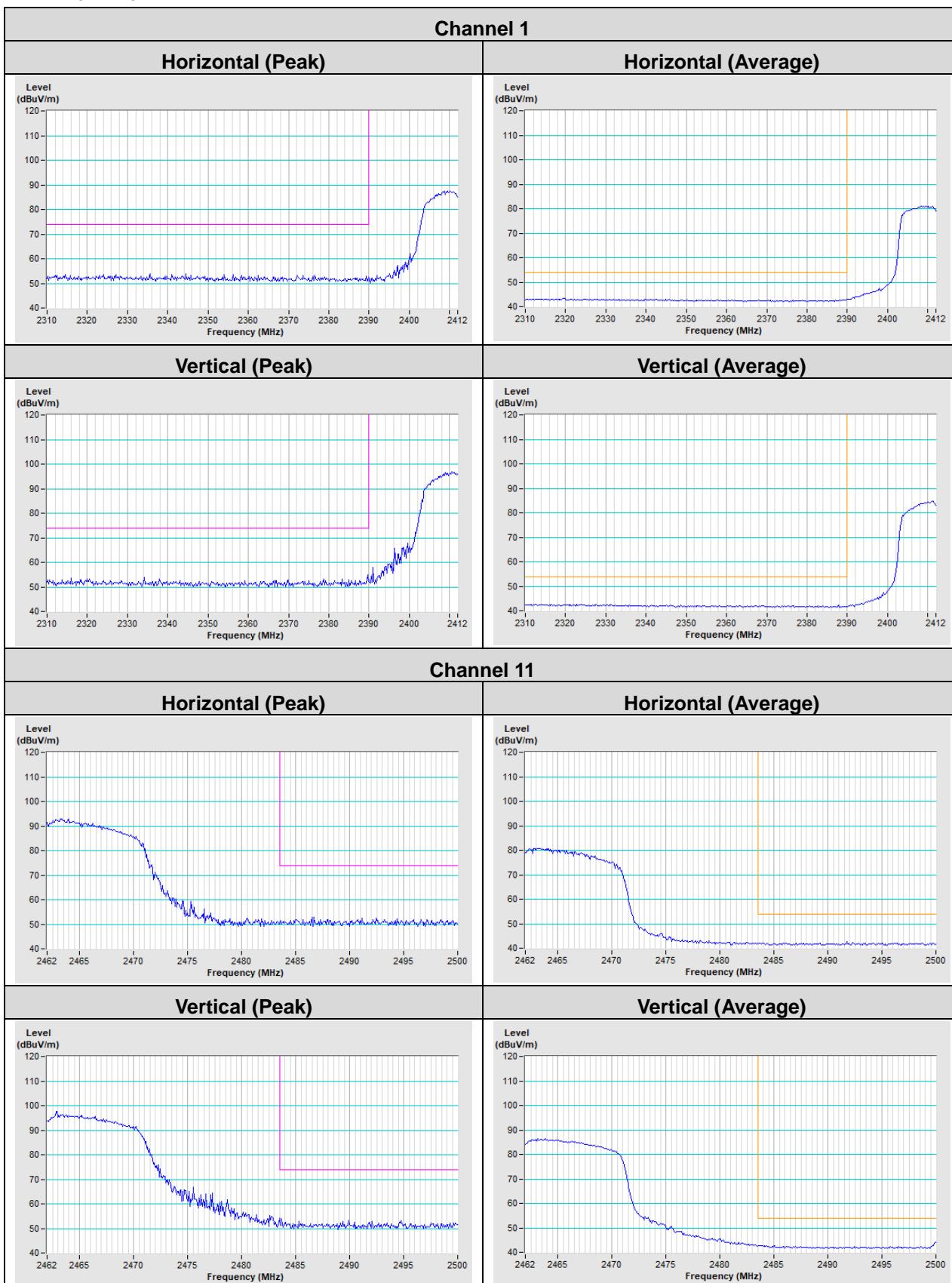
Mode A

802.11b

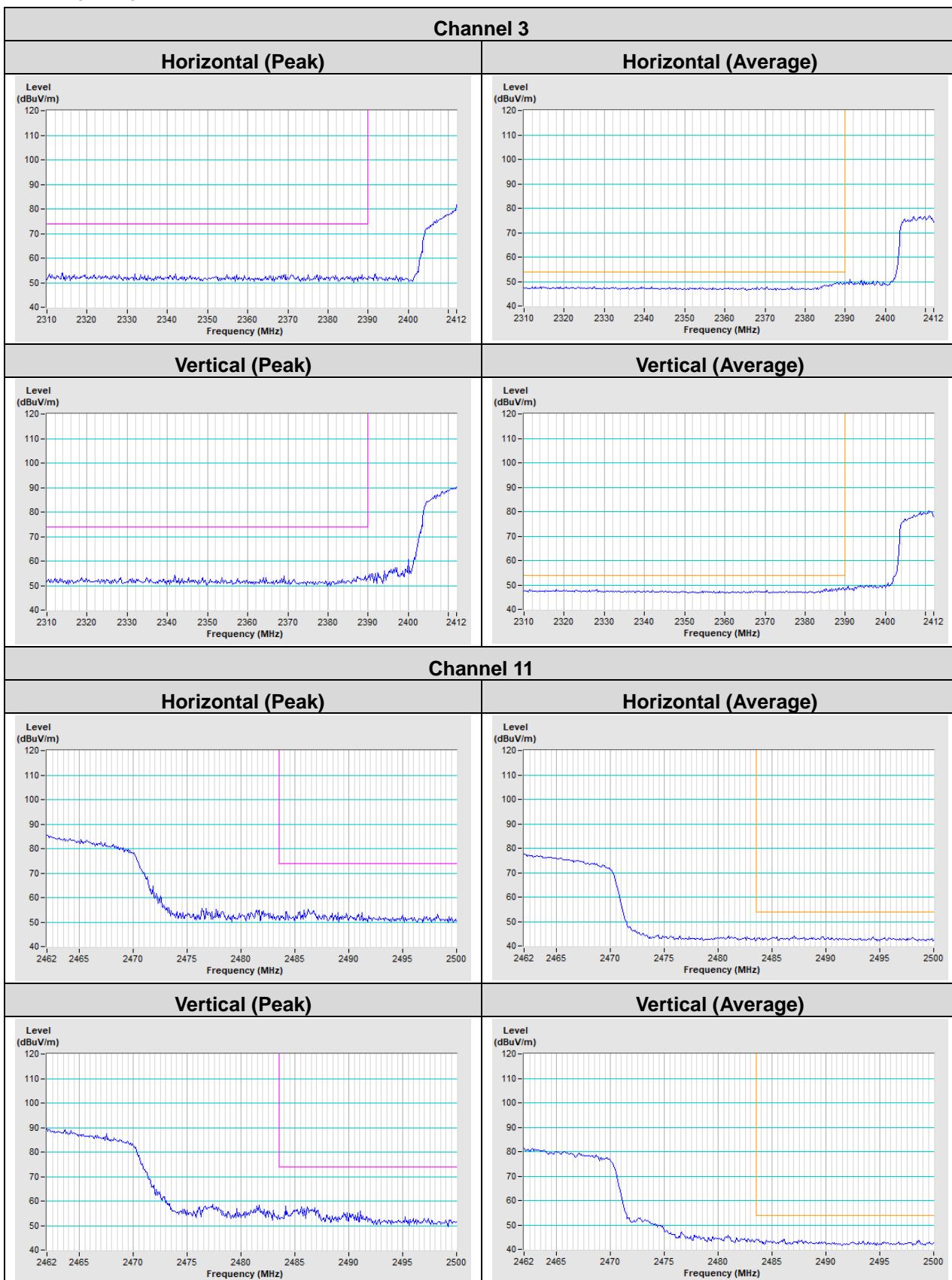


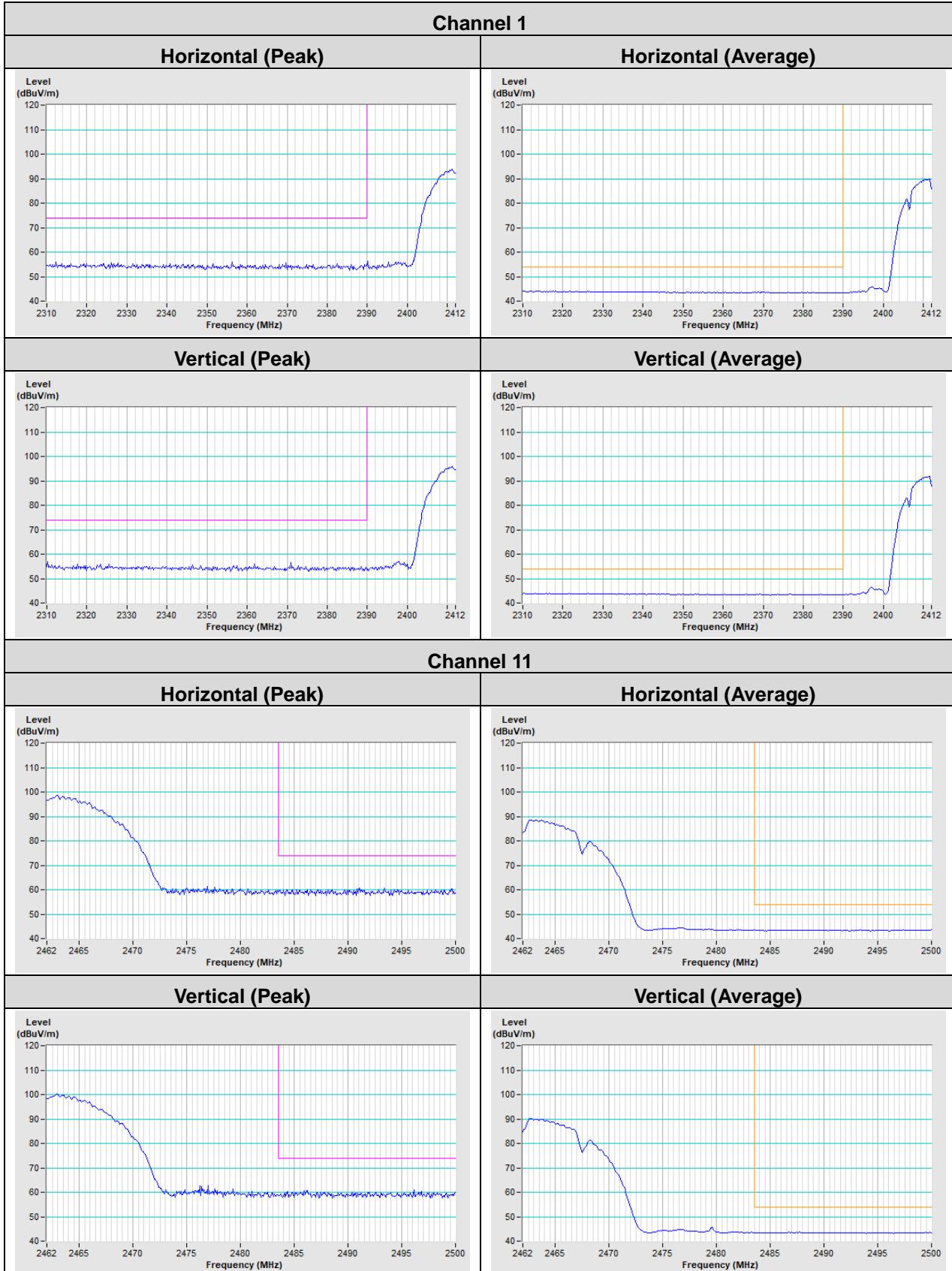
802.11g


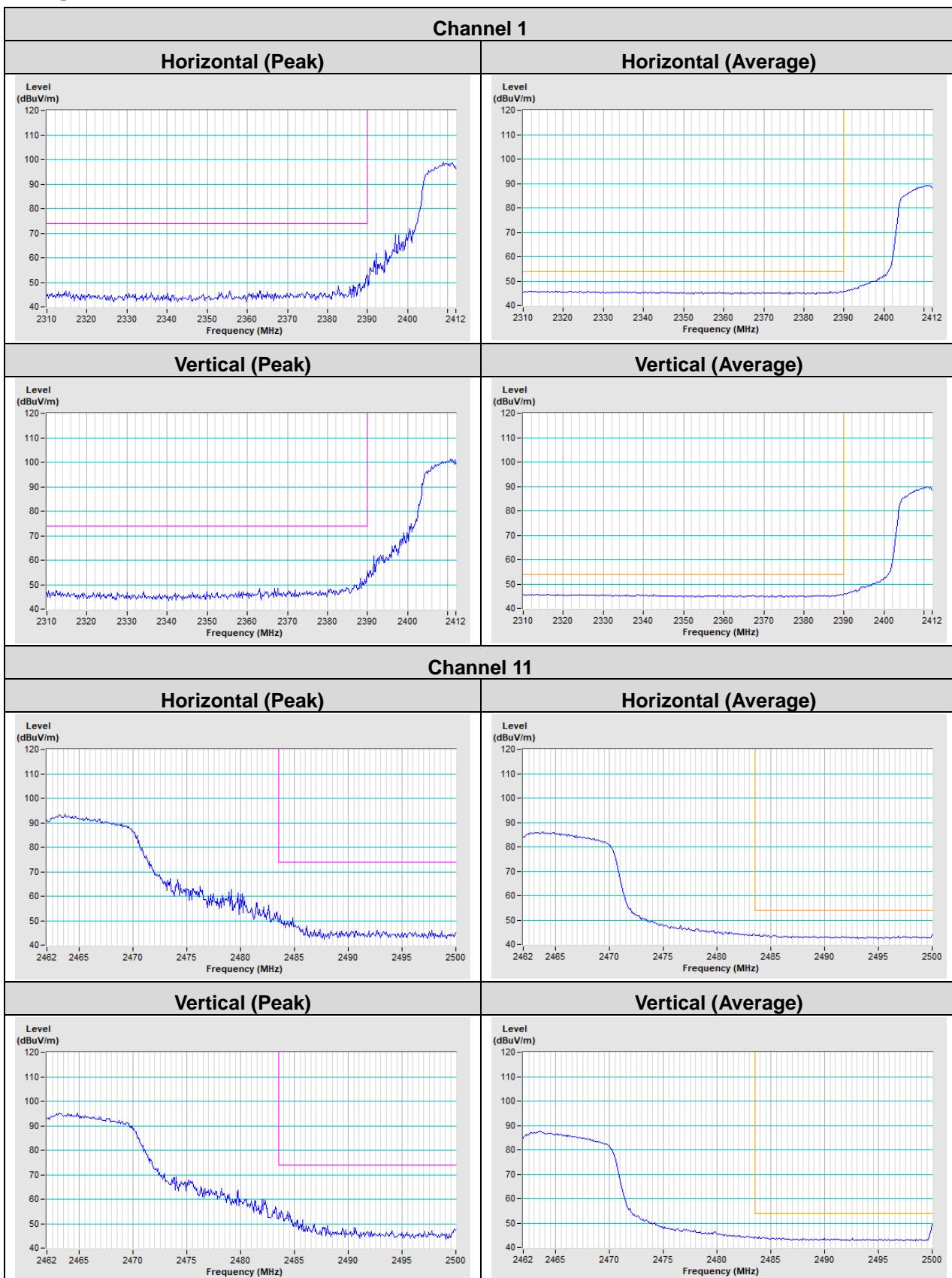
802.11n (HT20)



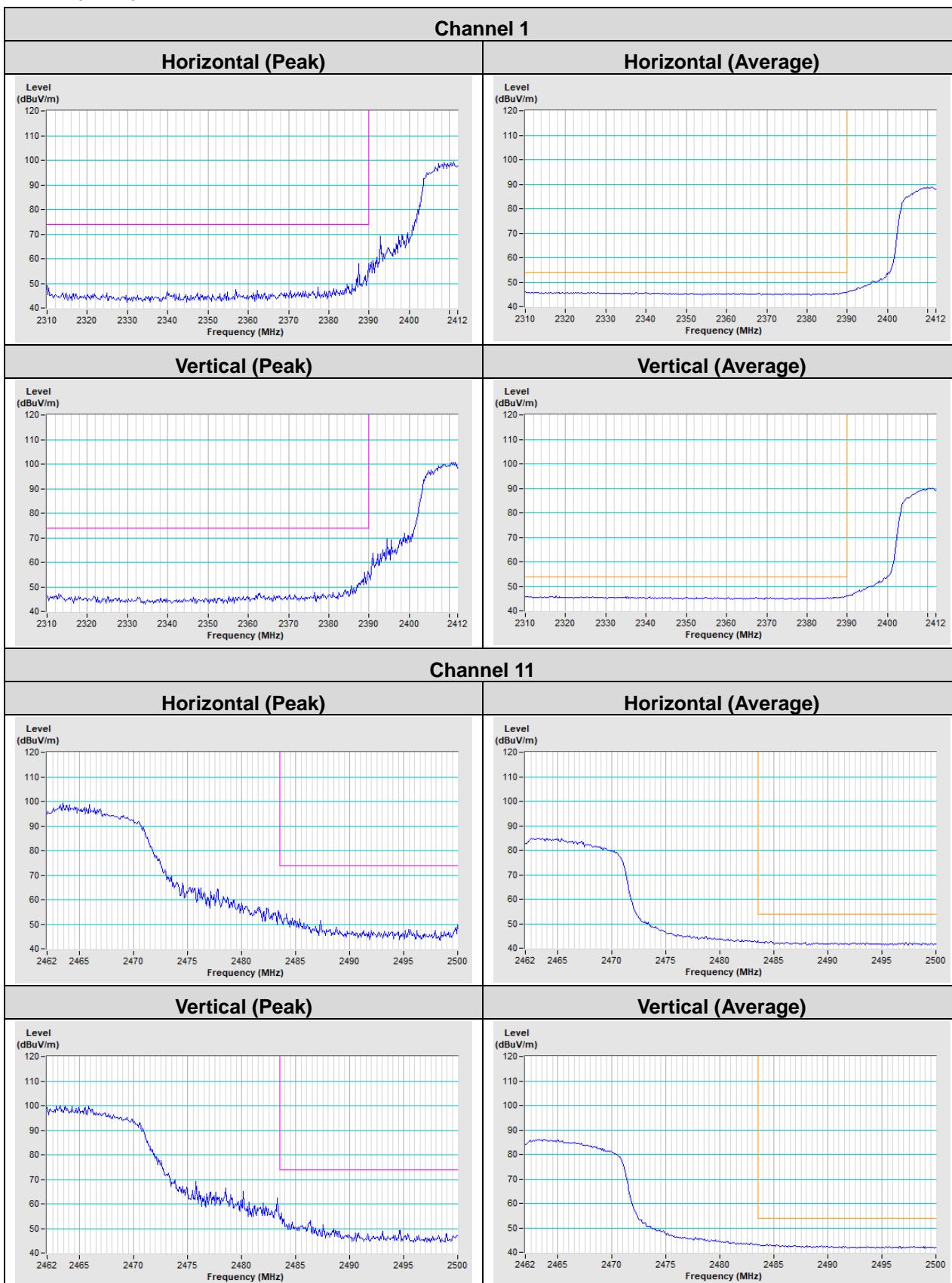
802.11n (HT40)



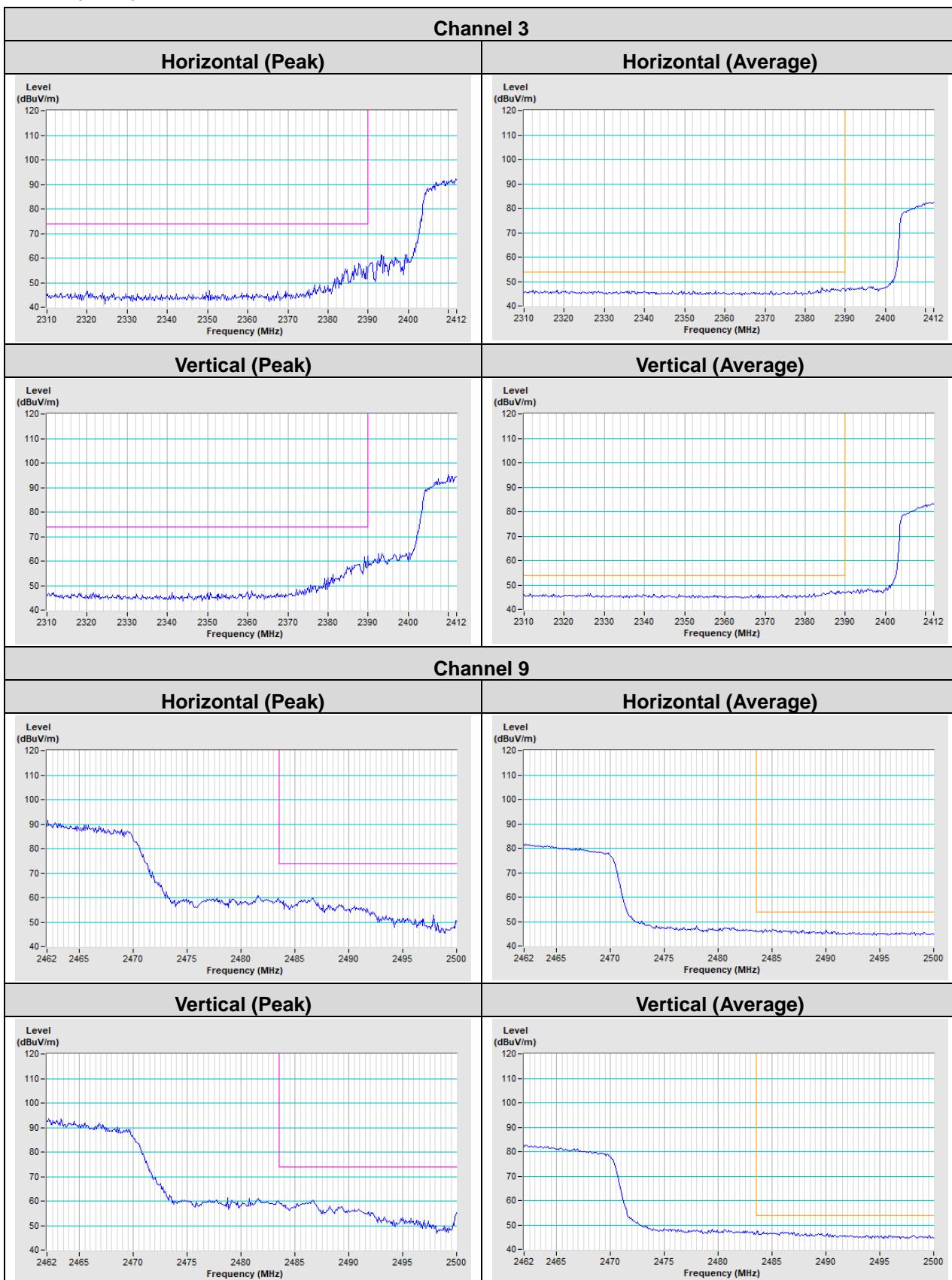
Mode B
802.11b


802.11g


802.11n (HT20)



802.11n (HT40)



Appendix – Information of 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 FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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