

Partial FCC Test Report

Report No.: RF200803C11-2

FCC ID: TX2-RTL8822CE

Test Model: RTL8822CE

Received Date: Aug. 03, 2020

Test Date: Aug. 07, 2020 ~ Aug. 20, 2020

Issued Date: Aug. 28, 2020

Applicant: Realtek Semiconductor Corp.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

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FCC Registration /
Designation Number: 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RF200803C11-2	Original Release	Aug. 28, 2020

1 Certificate of Conformity

Product: 802.11 a/b/g/n/ac RTL8822CE Combo Module

Brand: Realtek

Test Model: RTL8822CE

Sample Status: Engineering Sample

Applicant: Realtek Semiconductor Corp.

Test Date: Aug. 07, 2020 ~ Aug. 20, 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 : Shelly Hsueh, **Date:** Aug. 28, 2020
Shelly Hsueh / Specialist

Approved by : Dylan Chiou, **Date:** Aug. 28, 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 -15.75 dB at 0.17384 MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -3 dB at 49.68 MHz.
15.247(d)	Antenna Port Emission	N/A	Refer to Note
15.247(a)(2)	6 dB Bandwidth	N/A	Refer to Note
---	Occupied Bandwidth Measurement	N/A	Refer to Note
15.247(b)	Conducted power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	N/A	Refer to Note
15.203	Antenna Requirement	Pass	Antenna connector is I-PEX not a standard connector.

Note:

1. This report is a partial report, only test item of Conducted Emission, Radiated Emissions and Maximum Peak Output Power were performed for this report. Other testing data please refer to BV CPS report no.: RF180816E04 for module (Brand: Realtek, Model: RTL8822CE).
2. For 2.4G 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.
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
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	802.11 a/b/g/n/ac RTL8822CE Combo Module
Brand	Realtek
Test Model	RTL8822CE
Status of EUT	Engineering Sample
Power Supply Rating	3.3Vdc form host equipment
Modulation Type	CCK, DQPSK, DBPSK for DSSS 256QAM, 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 300 Mbps
Operating Frequency	2412 ~ 2472 MHz
Number of Channel	13 for 802.11b, 802.11g, 802.11n (HT20) / (VHT20) 9 for 802.11n (HT40) / (VHT40)
Output Power	563.64 mW
Antenna Type	Refer to Note as below
Antenna Connector	Refer to Note as below
Accessory Device	N/A
Data Cable Supplied	N/A

Note:

- The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

Modulation Mode	TX Function
802.11b	2TX
802.11g	2TX
802.11n (HT20)	2TX
802.11n (HT40)	2TX
802.11n (VHT20)	2TX
802.11n (VHT40)	2TX

* The modulation and bandwidth are similar for 802.11n mode for HT20 / HT40 / VHT20 / VHT40, therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

- The EUT is authorized for use in specific End-product. Please refer to below table for more details.

Product	Brand	Model
Notebook Computer	Lenovo	ThinkBook 14s Yoga ITL*****

Note: *=0~9,A-Z,a~z,"-" or blank, for marketing use only, with no impact on RF compliance of the product.

- The following accessories were for the End-product.

Product	Brand	Model	Description
Adapter	Lenovo	ADLX65YDC3D	I/P: 100-240 Vac, 50-60 Hz, 1.8 A O/P: 20 Vdc, 3.25 A 1.8m cable with 1 core
Battery	Lenovo	L19M4PDB	3907mAh, 60Wh,15.36Vdc

4. The antenna information is listed as below.

WLAN Antenna							
Ant. Type	Manufacturer	Parts Number		Antenna Gain (dBi)			
				BT/WLAN 2.4 GHz	WLAN 5.15~5.35 GHz	WLAN 5.47~5.725 GHz	WLAN 5.725~5.85 GHz
PIFA	South Star	Main	DC33002GO00/ N12-6584-R0A	-1.72	0.75	1.81	0.59
		Aux.	DC33002GO10/ N12-6585-R0A	-2.85	-0.78	-0.79	0.04
PIFA	High-Tek Electronics Co., Ltd	Main	DC33002GP00/ 0ACCN020003N	-0.39	-0.34	0.65	0.54
		Aux.	DC33002GP10/ 0ACCN020004N	-2.03	0.45	-0.58	-0.65

5. 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

6. 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

13 channels are provided for 802.11b, 802.11g, 802.11n (HT20) / (VHT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		

9 channels are provided for 802.11n (HT40) / (VHT40):

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

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE $\geq$ 1G	RE<1G	PLC	Power	
A	√	√	√	√	EUT with South Star ant.
B	√	√	√	√	EUT with HTK ant

Where **RE $\geq$ 1G**: Radiated Emission above 1 GHz

RE<1G: Radiated Emission below 1 GHz

PLC: Power Line Conducted Emission

Power: Maximum Output Power Measurement

Note: “-” means no effect.

Note: For radiated emission (below 1GHz) and power line conducted emission test items chosen the worst maximum power

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 13	1, 6, 11, 12, 13	DSSS	DBPSK	1.0
	802.11g	1 to 13	1, 6, 11, 12, 13	OFDM	BPSK	6.0
	802.11n (VHT20)	1 to 13	1, 6, 11, 12, 13	OFDM	BPSK	6.5
	802.11n (VHT40)	3 to 11	3, 6, 9, 10, 11	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, B	802.11g	3 to 11	6	OFDM	BPSK	6.0

Power Line Conducted Emission Test:

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

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
A, B	802.11g	3 to 11	6	OFDM	BPSK	6.0

Maximum Output Power 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 13	1, 6, 11, 12, 13	DSSS	DBPSK	1.0
	802.11g	1 to 13	1, 6, 11, 12, 13	OFDM	BPSK	6.0
	802.11n (VHT20)	1 to 13	1, 6, 11, 12, 13	OFDM	BPSK	6.5
	802.11n (VHT40)	3 to 11	3, 6, 9, 10, 11	OFDM	BPSK	13.5

Test Condition:

Applicable To	Environmental Conditions	Input Power	Tested by
RE $\geq$ 1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Adair Peng, Titan Hsu
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Adair Peng
PLC	25 deg. C, 65 % RH	120 Vac, 60 Hz	Adair Peng
Power	25 deg. C, 65 % RH	120 Vac, 60 Hz	Jisyong Wang

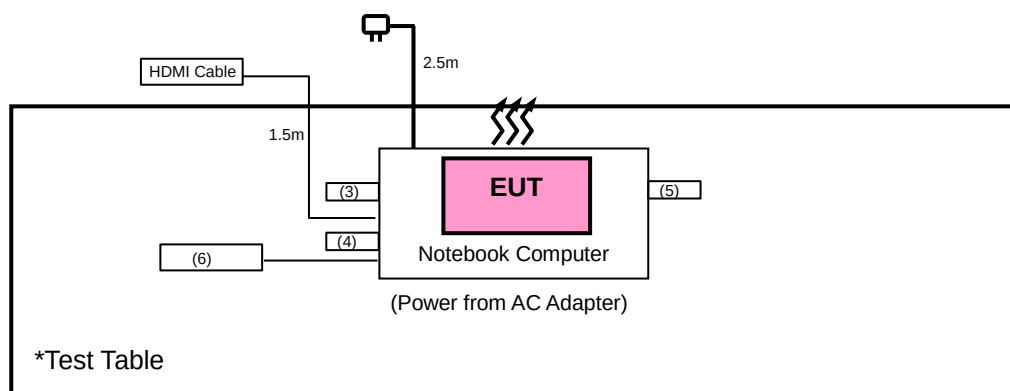
3.3 Description of Support Units

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.	Notebook Computer	Lenovo	ThinkBook 14s Yoga ITL *****	NA	NA	-
2.	Adapter	Lenovo	ADLX65YDC3D	NA	NA	-
3.	Type-C USB	SanDisk	SDDDC3-320G	NA	NA	-
4.	USB 2.0 FLASH	HP	v250W	05	NA	-
5.	USB 2.0 FLASH	HP	v250W	03	NA	-
6.	Earphone	Apple	NA	NA	NA	-

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

3.3.1 Configuration of System under Test



3.4 General Description of Applied Standards

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

KDB 662911 D01 Multiple Transmitter Output v02r01

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

3.4.1 Limits of Radiated Emission and Bandedge Measurement

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

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

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

4 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:

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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:

- The lower limit shall apply at the transition frequencies.
- Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 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 ROHDE & SCHWARZ	ESR3	102579	Jul. 07, 2020	Jul. 06, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Jun. 09, 2020	Jun. 08, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-171	Nov. 11, 2019	Nov. 10, 2020
HORN Antenna SCHWARZBECK	9120D	209	Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 24, 2019	Nov. 23, 2020
Loop Antenna EMCI	EM-6879	269	Sep. 16, 2019	Sep. 15, 2020
Preamplifier Agilent (Below 1GHz)	8447D	2944A10738	Aug. 20, 2019 Aug. 16, 2020	Aug. 15, 2020 Aug. 15, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02465	Mar. 23, 2020	Mar. 22, 2021
RF Coaxial Cable WOKEN With 5dB PAD	8D-FB	Cable-CH3-01	Aug. 20, 2019 Aug. 16, 2020	Aug. 15, 2020 Aug. 15, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH3-03 (223653/4)	Aug. 20, 2019 Aug. 16, 2020	Aug. 15, 2020 Aug. 15, 2021
RF signal cable HUBER+SUHNER& EMCI	SUCOFLEX 104&EMC104-SM- SM-8000	Cable-CH3-03 (309224+170907)	Aug. 20, 2019 Aug. 16, 2020	Aug. 15, 2020 Aug. 15, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021702	NA	NA
Turn Table BV ADT	TT100	TT93021702	NA	NA
Turn Table Controller BV ADT	SC100	SC93021702	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY55 190004/MY551900 07/MY55210005	Jul. 13, 2020	Jul. 12, 2021

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 3.

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:

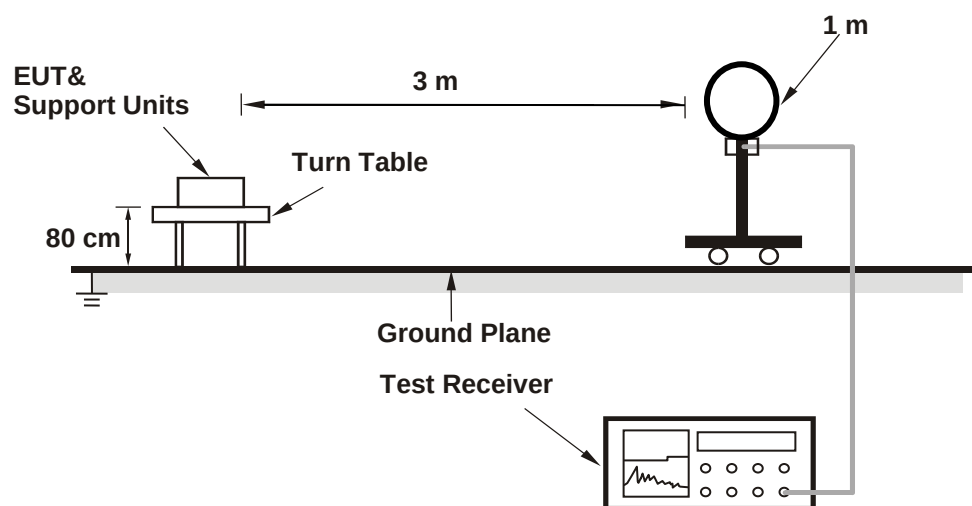
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

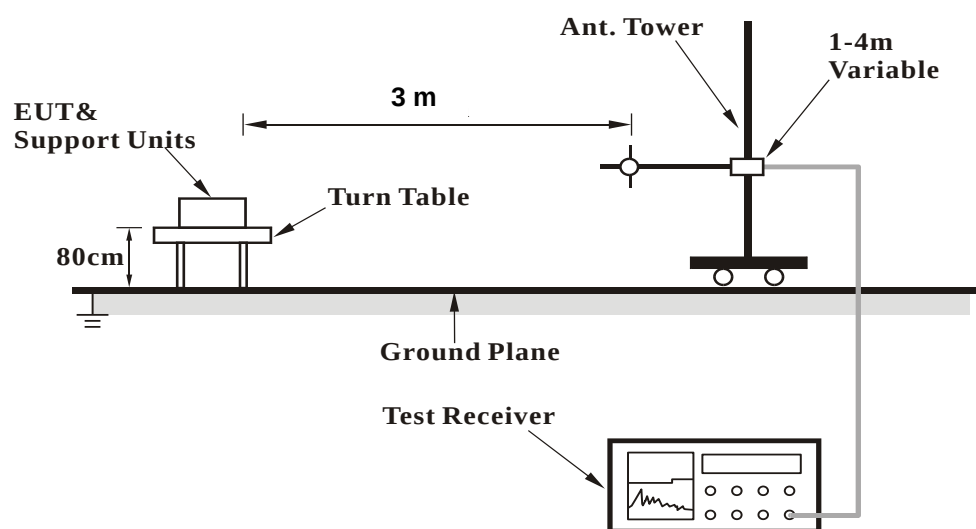
No deviation.

4.1.5 Test Set Up

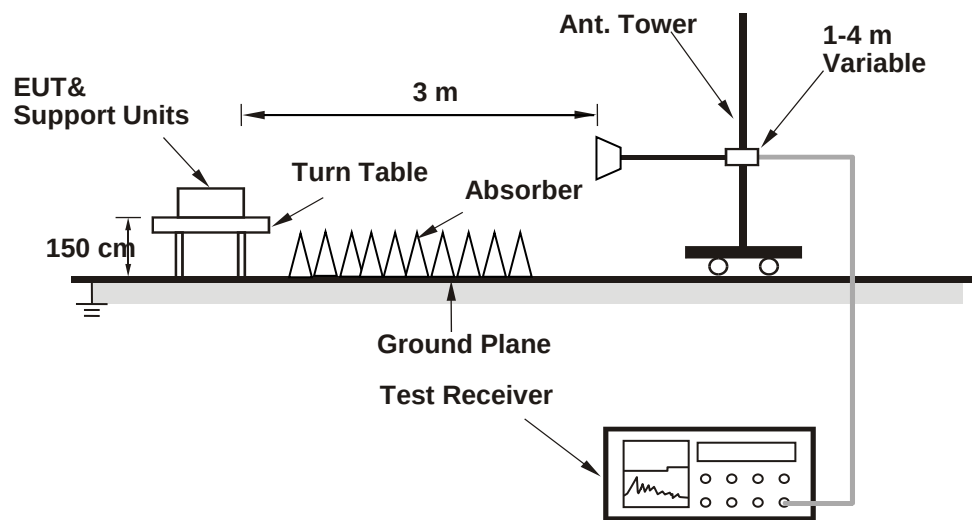
<Radiated Emission below 30 MHz>



<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

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	58.7 PK	74.0	-15.3	4.00 H	49	26.4	32.3
2	2390.00	46.6 AV	54.0	-7.4	4.00 H	49	14.3	32.3
3	*2412.00	98.9 PK			4.00 H	49	66.6	32.3
4	*2412.00	95.3 AV			4.00 H	49	63.0	32.3
5	4824.00	45.9 PK	74.0	-28.1	3.15 H	330	42.7	3.2
6	4824.00	31.4 AV	54.0	-22.6	3.15 H	330	28.2	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.0 PK	74.0	-15.0	2.59 V	1	26.7	32.3
2	2390.00	47.1 AV	54.0	-6.9	2.59 V	1	14.8	32.3
3	*2412.00	103.5 PK			2.59 V	1	71.2	32.3
4	*2412.00	99.9 AV			2.59 V	1	67.6	32.3
5	4824.00	46.4 PK	74.0	-27.6	2.35 V	203	43.2	3.2
6	4824.00	32.2 AV	54.0	-21.8	2.35 V	203	29.0	3.2

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.
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	100.3 PK			3.85 H	52	68.0	32.3
2	*2437.00	97.2 AV			3.85 H	52	64.9	32.3
3	4874.00	46.1 PK	74.0	-27.9	3.23 H	329	43.0	3.1
4	4874.00	32.0 AV	54.0	-22.0	3.23 H	329	28.9	3.1
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	*2437.00	105.0 PK			2.86 V	358	72.7	32.3
2	*2437.00	101.8 AV			2.86 V	358	69.5	32.3
3	4874.00	46.5 PK	74.0	-27.5	2.41 V	212	43.4	3.1
4	4874.00	32.3 AV	54.0	-21.7	2.41 V	212	29.2	3.1

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.

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	99.1 PK			2.70 H	175	66.7	32.4
2	*2462.00	96.0 AV			2.70 H	175	63.6	32.4
3	2483.50	59.2 PK	74.0	-14.8	2.70 H	175	26.8	32.4
4	2483.50	47.1 AV	54.0	-6.9	2.70 H	175	14.7	32.4
5	4924.00	46.1 PK	74.0	-27.9	3.09 H	321	43.0	3.1
6	4924.00	32.0 AV	54.0	-22.0	3.09 H	321	28.9	3.1
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	105.2 PK			2.59 V	358	72.8	32.4
2	*2462.00	101.8 AV			2.59 V	358	69.4	32.4
3	2483.50	60.3 PK	74.0	-13.7	2.59 V	358	27.9	32.4
4	2483.50	47.2 AV	54.0	-6.8	2.59 V	358	14.8	32.4
5	4924.00	46.6 PK	74.0	-27.4	2.33 V	201	43.5	3.1
6	4924.00	32.4 AV	54.0	-21.6	2.33 V	201	29.3	3.1

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.

CHANNEL	TX Channel 12	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	*2467.00	94.9 PK			2.75 H	154	62.5	32.4
2	*2467.00	91.9 AV			2.75 H	154	59.5	32.4
3	2483.50	58.8 PK	74.0	-15.2	2.75 H	154	26.4	32.4
4	2483.50	46.8 AV	54.0	-7.2	2.75 H	154	14.4	32.4
5	4934.00	45.9 PK	74.0	-28.1	3.03 H	321	42.7	3.2
6	4934.00	31.5 AV	54.0	-22.5	3.03 H	321	28.3	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2467.00	99.8 PK			2.79 V	355	67.4	32.4
2	*2467.00	96.1 AV			2.79 V	355	63.7	32.4
3	2483.50	59.7 PK	74.0	-14.3	2.79 V	355	27.3	32.4
4	2483.50	47.3 AV	54.0	-6.7	2.79 V	355	14.9	32.4
5	4934.00	46.2 PK	74.0	-27.8	2.49 V	220	43.0	3.2
6	4934.00	32.0 AV	54.0	-22.0	2.49 V	220	28.8	3.2

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.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 13	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	*2472.00	93.0 PK			2.77 H	153	60.6	32.4
2	*2472.00	89.4 AV			2.77 H	153	57.0	32.4
3	2483.50	59.1 PK	74.0	-14.9	2.77 H	153	26.7	32.4
4	2483.50	47.0 AV	54.0	-7.0	2.77 H	153	14.6	32.4
5	4944.00	45.4 PK	74.0	-28.6	3.17 H	312	42.2	3.2
6	4944.00	31.4 AV	54.0	-22.6	3.17 H	312	28.2	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2472.00	98.0 PK			2.78 V	355	65.6	32.4
2	*2472.00	94.8 AV			2.78 V	355	62.4	32.4
3	2483.50	59.8 PK	74.0	-14.2	2.78 V	355	27.4	32.4
4	2483.50	47.4 AV	54.0	-6.6	2.78 V	355	15.0	32.4
5	4944.00	46.0 PK	74.0	-28.0	2.19 V	223	42.8	3.2
6	4944.00	31.9 AV	54.0	-22.1	2.19 V	223	28.7	3.2

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.
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.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.6 PK	74.0	-15.4	3.97 H	51	26.3	32.3
2	2390.00	46.5 AV	54.0	-7.5	3.97 H	51	14.2	32.3
3	*2412.00	97.1 PK			3.97 H	51	64.8	32.3
4	*2412.00	87.4 AV			3.97 H	51	55.1	32.3
5	4824.00	45.2 PK	74.0	-28.8	3.17 H	332	42.0	3.2
6	4824.00	31.6 AV	54.0	-22.4	3.17 H	332	28.4	3.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.2 PK	74.0	-14.8	2.59 V	356	26.9	32.3
2	2390.00	46.7 AV	54.0	-7.3	2.59 V	356	14.4	32.3
3	*2412.00	102.1 PK			2.59 V	356	69.8	32.3
4	*2412.00	92.3 AV			2.59 V	356	60.0	32.3
5	4824.00	45.7 PK	74.0	-28.3	2.41 V	220	42.5	3.2
6	4824.00	32.2 AV	54.0	-21.8	2.41 V	220	29.0	3.2

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.
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	101.7 PK			3.87 H	46	69.4	32.3
2	*2437.00	92.0 AV			3.87 H	46	59.7	32.3
3	4874.00	46.1 PK	74.0	-27.9	3.23 H	312	43.0	3.1
4	4874.00	32.2 AV	54.0	-21.8	3.23 H	312	29.1	3.1
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	*2437.00	107.0 PK			2.63 V	357	74.7	32.3
2	*2437.00	97.3 AV			2.63 V	357	65.0	32.3
3	4874.00	46.6 PK	74.0	-27.4	2.09 V	218	43.5	3.1
4	4874.00	32.6 AV	54.0	-21.4	2.09 V	218	29.5	3.1

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.

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	97.4 PK			3.19 H	120	65.0	32.4
2	*2462.00	87.4 AV			3.19 H	120	55.0	32.4
3	2483.50	59.1 PK	74.0	-14.9	3.19 H	120	26.7	32.4
4	2483.50	46.9 AV	54.0	-7.1	3.19 H	120	14.5	32.4
5	4924.00	45.5 PK	74.0	-28.5	2.97 H	307	42.4	3.1
6	4924.00	31.4 AV	54.0	-22.6	2.97 H	307	28.3	3.1
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	103.4 PK			2.82 V	357	71.0	32.4
2	*2462.00	93.5 AV			2.82 V	357	61.1	32.4
3	2483.50	59.6 PK	74.0	-14.4	2.82 V	357	27.2	32.4
4	2483.50	47.1 AV	54.0	-6.9	2.82 V	357	14.7	32.4
5	4924.00	46.0 PK	74.0	-28.0	2.22 V	229	42.9	3.1
6	4924.00	31.8 AV	54.0	-22.2	2.22 V	229	28.7	3.1

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.

CHANNEL	TX Channel 12	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	*2467.00	95.0 PK			3.22 H	121	62.6	32.4
2	*2467.00	84.9 AV			3.22 H	121	52.5	32.4
3	2483.50	59.1 PK	74.0	-14.9	3.22 H	121	26.7	32.4
4	2483.50	47.0 AV	54.0	-7.0	3.22 H	121	14.6	32.4
5	4934.00	45.5 PK	74.0	-28.5	3.20 H	330	42.3	3.2
6	4934.00	31.5 AV	54.0	-22.5	3.20 H	330	28.3	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2467.00	101.0 PK			2.80 V	356	68.6	32.4
2	*2467.00	91.0 AV			2.80 V	356	58.6	32.4
3	2483.50	59.6 PK	74.0	-14.4	2.80 V	356	27.2	32.4
4	2483.50	47.2 AV	54.0	-6.8	2.80 V	356	14.8	32.4
5	4934.00	45.8 PK	74.0	-28.2	2.13 V	228	42.6	3.2
6	4934.00	31.8 AV	54.0	-22.2	2.13 V	228	28.6	3.2

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.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 13	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	*2472.00	92.1 PK			3.23 H	122	59.7	32.4
2	*2472.00	82.4 AV			3.23 H	122	50.0	32.4
3	2483.50	58.7 PK	74.0	-15.3	3.23 H	122	26.3	32.4
4	2483.50	46.7 AV	54.0	-7.3	3.23 H	122	14.3	32.4
5	4944.00	45.4 PK	74.0	-28.6	3.03 H	321	42.2	3.2
6	4944.00	31.9 AV	54.0	-22.1	3.03 H	321	28.7	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2472.00	97.1 PK			2.80 V	356	64.7	32.4
2	*2472.00	87.5 AV			2.80 V	356	55.1	32.4
3	2483.50	59.0 PK	74.0	-15.0	2.80 V	356	26.6	32.4
4	2483.50	47.0 AV	54.0	-7.0	2.80 V	356	14.6	32.4
5	4944.00	45.9 PK	74.0	-28.1	2.36 V	211	42.7	3.2
6	4944.00	32.3 AV	54.0	-21.7	2.36 V	211	29.1	3.2

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.
5. " * ": Fundamental frequency.

802.11n (VHT20)

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	59.0 PK	74.0	-15.0	3.99 H	45	26.7	32.3
2	2390.00	46.6 AV	54.0	-7.4	3.99 H	45	14.3	32.3
3	*2412.00	96.1 PK			3.99 H	45	63.8	32.3
4	*2412.00	86.5 AV			3.99 H	45	54.2	32.3
5	4824.00	45.2 PK	74.0	-28.8	3.20 H	330	42.0	3.2
6	4824.00	31.8 AV	54.0	-22.2	3.20 H	330	28.6	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.1 PK	74.0	-14.9	2.59 V	357	26.8	32.3
2	2390.00	46.7 AV	54.0	-7.3	2.59 V	357	14.4	32.3
3	*2412.00	101.6 PK			2.59 V	357	69.3	32.3
4	*2412.00	92.0 AV			2.59 V	357	59.7	32.3
5	4824.00	45.5 PK	74.0	-28.5	2.33 V	231	42.3	3.2
6	4824.00	32.0 AV	54.0	-22.0	2.33 V	231	28.8	3.2

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.
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	101.2 PK			3.93 H	49	68.9	32.3
2	*2437.00	91.4 AV			3.93 H	49	59.1	32.3
3	4874.00	45.8 PK	74.0	-28.2	3.29 H	309	42.7	3.1
4	4874.00	32.0 AV	54.0	-22.0	3.29 H	309	28.9	3.1
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	*2437.00	106.5 PK			2.61 V	358	74.2	32.3
2	*2437.00	96.9 AV			2.61 V	358	64.6	32.3
3	4874.00	46.3 PK	74.0	-27.7	2.15 V	220	43.2	3.1
4	4874.00	32.4 AV	54.0	-21.6	2.15 V	220	29.3	3.1

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.

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	98.3 PK			3.67 H	41	65.9	32.4
2	*2462.00	88.7 AV			3.67 H	41	56.3	32.4
3	2483.50	59.1 PK	74.0	-14.9	3.67 H	41	26.7	32.4
4	2483.50	46.8 AV	54.0	-7.2	3.67 H	41	14.4	32.4
5	4924.00	45.5 PK	74.0	-28.5	3.23 H	330	42.4	3.1
6	4924.00	31.6 AV	54.0	-22.4	3.23 H	330	28.5	3.1
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	103.2 PK			2.60 V	359	70.8	32.4
2	*2462.00	93.4 AV			2.60 V	359	61.0	32.4
3	2483.50	59.5 PK	74.0	-14.5	2.60 V	359	27.1	32.4
4	2483.50	47.0 AV	54.0	-7.0	2.60 V	359	14.6	32.4
5	4924.00	45.9 PK	74.0	-28.1	2.15 V	219	42.8	3.1
6	4924.00	31.9 AV	54.0	-22.1	2.15 V	219	28.8	3.1

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.

CHANNEL	TX Channel 12	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	*2467.00	95.9 PK			3.65 H	41	63.5	32.4
2	*2467.00	86.3 AV			3.65 H	41	53.9	32.4
3	2483.50	59.1 PK	74.0	-14.9	3.65 H	41	26.7	32.4
4	2483.50	46.9 AV	54.0	-7.1	3.65 H	41	14.5	32.4
5	4934.00	45.3 PK	74.0	-28.7	3.17 H	312	42.1	3.2
6	4934.00	31.3 AV	54.0	-22.7	3.17 H	312	28.1	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2467.00	100.4 PK			2.60 V	2	68.0	32.4
2	*2467.00	90.5 AV			2.60 V	2	58.1	32.4
3	2483.50	59.4 PK	74.0	-14.6	2.60 V	2	27.0	32.4
4	2483.50	47.1 AV	54.0	-6.9	2.60 V	2	14.7	32.4
5	4934.00	45.7 PK	74.0	-28.3	2.22 V	223	42.5	3.2
6	4934.00	31.7 AV	54.0	-22.3	2.22 V	223	28.5	3.2

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.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 13	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	*2472.00	93.6 PK			3.68 H	41	61.2	32.4
2	*2472.00	83.6 AV			3.68 H	41	51.2	32.4
3	2483.50	59.1 PK	74.0	-14.9	3.68 H	41	26.7	32.4
4	2483.50	46.9 AV	54.0	-7.1	3.68 H	41	14.5	32.4
5	4944.00	45.5 PK	74.0	-28.5	3.18 H	303	42.3	3.2
6	4944.00	32.2 AV	54.0	-21.8	3.18 H	303	29.0	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2472.00	97.3 PK			2.80 V	354	64.9	32.4
2	*2472.00	87.7 AV			2.80 V	354	55.3	32.4
3	2483.50	59.4 PK	74.0	-14.6	2.80 V	354	27.0	32.4
4	2483.50	47.1 AV	54.0	-6.9	2.80 V	354	14.7	32.4
5	4944.00	46.0 PK	74.0	-28.0	2.29 V	220	42.8	3.2
6	4944.00	32.5 AV	54.0	-21.5	2.29 V	220	29.3	3.2

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.
5. " * ": Fundamental frequency.

802.11n (VHT40)

CHANNEL	TX Channel 3	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	59.1 PK	74.0	-14.9	1.88 H	150	26.8	32.3
2	2390.00	46.9 AV	54.0	-7.1	1.88 H	150	14.6	32.3
3	*2422.00	93.1 PK			1.88 H	150	60.8	32.3
4	*2422.00	84.0 AV			1.88 H	150	51.7	32.3
5	4844.00	44.9 PK	74.0	-29.1	2.97 H	303	41.8	3.1
6	4844.00	31.3 AV	54.0	-22.7	2.97 H	303	28.2	3.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.5 PK	74.0	-14.5	2.63 V	0	27.2	32.3
2	2390.00	47.1 AV	54.0	-6.9	2.63 V	0	14.8	32.3
3	*2422.00	98.6 PK			2.63 V	0	66.3	32.3
4	*2422.00	89.5 AV			2.63 V	0	57.2	32.3
5	4844.00	45.3 PK	74.0	-28.7	2.23 V	219	42.2	3.1
6	4844.00	31.6 AV	54.0	-22.4	2.23 V	219	28.5	3.1

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.

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	96.3 PK			1.97 H	142	64.0	32.3
2	*2437.00	87.3 AV			1.97 H	142	55.0	32.3
3	4874.00	45.9 PK	74.0	-28.1	3.28 H	327	42.8	3.1
4	4874.00	31.9 AV	54.0	-22.1	3.28 H	327	28.8	3.1
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	*2437.00	101.6 PK			2.62 V	359	69.3	32.3
2	*2437.00	92.6 AV			2.62 V	359	60.3	32.3
3	4874.00	46.2 PK	74.0	-27.8	2.31 V	228	43.1	3.1
4	4874.00	32.3 AV	54.0	-21.7	2.31 V	228	29.2	3.1

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.

CHANNEL	TX Channel 9	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	*2452.00	94.1 PK			3.70 H	43	61.7	32.4
2	*2452.00	85.0 AV			3.70 H	43	52.6	32.4
3	2483.50	59.5 PK	74.0	-14.5	3.70 H	43	27.1	32.4
4	2483.50	47.2 AV	54.0	-6.8	3.70 H	43	14.8	32.4
5	4904.00	45.0 PK	74.0	-29.0	3.14 H	309	42.0	3.0
6	4904.00	31.5 AV	54.0	-22.5	3.14 H	309	28.5	3.0
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	*2452.00	99.8 PK			2.84 V	358	67.4	32.4
2	*2452.00	90.5 AV			2.84 V	358	58.1	32.4
3	2483.50	60.0 PK	74.0	-14.0	2.84 V	358	27.6	32.4
4	2483.50	47.7 AV	54.0	-6.3	2.84 V	358	15.3	32.4
5	4904.00	45.2 PK	74.0	-28.8	2.31 V	213	42.2	3.0
6	4904.00	31.9 AV	54.0	-22.1	2.31 V	213	28.9	3.0

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 10	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	*2457.00	90.4 PK			2.49 H	173	58.0	32.4
2	*2457.00	81.2 AV			2.49 H	173	48.8	32.4
3	2483.50	59.4 PK	74.0	-14.6	2.49 H	173	27.0	32.4
4	2483.50	46.8 AV	54.0	-7.2	2.49 H	173	14.4	32.4
5	4914.00	45.0 PK	74.0	-29.0	3.28 H	315	41.9	3.1
6	4914.00	31.2 AV	54.0	-22.8	3.28 H	315	28.1	3.1
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	*2457.00	96.5 PK			2.58 V	1	64.1	32.4
2	*2457.00	87.6 AV			2.58 V	1	55.2	32.4
3	2483.50	60.0 PK	74.0	-14.0	2.58 V	1	27.6	32.4
4	2483.50	47.2 AV	54.0	-6.8	2.58 V	1	14.8	32.4
5	4914.00	45.4 PK	74.0	-28.6	2.22 V	223	42.3	3.1
6	4914.00	31.5 AV	54.0	-22.5	2.22 V	223	28.4	3.1

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.

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	88.4 PK			2.20 H	174	56.0	32.4
2	*2462.00	79.5 AV			2.20 H	174	47.1	32.4
3	2483.50	61.0 PK	74.0	-13.0	2.20 H	174	28.6	32.4
4	2483.50	47.3 AV	54.0	-6.7	2.20 H	174	14.9	32.4
5	4924.00	45.0 PK	74.0	-29.0	3.01 H	312	41.9	3.1
6	4924.00	31.1 AV	54.0	-22.9	3.01 H	312	28.0	3.1
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	94.6 PK			2.80 V	352	62.2	32.4
2	*2462.00	85.4 AV			2.80 V	352	53.0	32.4
3	2483.50	66.1 PK	74.0	-7.9	2.80 V	352	33.7	32.4
4	2483.50	48.4 AV	54.0	-5.6	2.80 V	352	16.0	32.4
5	4924.00	45.4 PK	74.0	-28.6	2.31 V	220	42.3	3.1
6	4924.00	31.5 AV	54.0	-22.5	2.31 V	220	28.4	3.1

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.

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	59.4 PK	74.0	-14.6	3.07 H	118	27.1	32.3
2	2390.00	46.9 AV	54.0	-7.1	3.07 H	118	14.6	32.3
3	*2412.00	102.3 PK			3.07 H	118	70.0	32.3
4	*2412.00	98.8 AV			3.07 H	118	66.5	32.3
5	4824.00	45.2 PK	74.0	-28.8	3.08 H	299	42.0	3.2
6	4824.00	32.2 AV	54.0	-21.8	3.08 H	299	29.0	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.7 PK	74.0	-14.3	2.46 V	12	27.4	32.3
2	2390.00	47.9 AV	54.0	-6.1	2.46 V	12	15.6	32.3
3	*2412.00	105.4 PK			2.46 V	12	73.1	32.3
4	*2412.00	102.4 AV			2.46 V	12	70.1	32.3
5	4824.00	46.2 PK	74.0	-27.8	1.20 V	91	43.0	3.2
6	4824.00	32.6 AV	54.0	-21.4	1.20 V	91	29.4	3.2

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.
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	101.3 PK			3.35 H	126	69.0	32.3
2	*2437.00	98.0 AV			3.35 H	126	65.7	32.3
3	4874.00	45.2 PK	74.0	-28.8	3.11 H	302	42.1	3.1
4	4874.00	32.2 AV	54.0	-21.8	3.11 H	302	29.1	3.1
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	*2437.00	107.3 PK			2.54 V	2	75.0	32.3
2	*2437.00	104.1 AV			2.54 V	2	71.8	32.3
3	4874.00	45.3 PK	74.0	-28.7	1.23 V	96	42.2	3.1
4	4874.00	32.3 AV	54.0	-21.7	1.23 V	96	29.2	3.1

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.

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	102.7 PK			2.20 H	111	70.3	32.4
2	*2462.00	98.9 AV			2.20 H	111	66.5	32.4
3	2483.50	59.2 PK	74.0	-14.8	2.20 H	111	26.8	32.4
4	2483.50	47.0 AV	54.0	-7.0	2.20 H	111	14.6	32.4
5	4924.00	45.3 PK	74.0	-28.7	3.11 H	295	42.2	3.1
6	4924.00	32.2 AV	54.0	-21.8	3.11 H	295	29.1	3.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2462.00	107.4 PK			2.56 V	2	75.0	32.4
2	*2462.00	103.8 AV			2.56 V	2	71.4	32.4
3	2483.50	59.6 PK	74.0	-14.4	2.56 V	2	27.2	32.4
4	2483.50	47.8 AV	54.0	-6.2	2.56 V	2	15.4	32.4
5	4924.00	45.3 PK	74.0	-28.7	1.26 V	96	42.2	3.1
6	4924.00	32.2 AV	54.0	-21.8	1.26 V	96	29.1	3.1

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.

CHANNEL	TX Channel 12	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	*2467.00	97.6 PK			2.38 H	110	65.2	32.4
2	*2467.00	93.8 AV			2.38 H	110	61.4	32.4
3	2483.50	58.9 PK	74.0	-15.1	2.38 H	110	26.5	32.4
4	2483.50	47.0 AV	54.0	-7.0	2.38 H	110	14.6	32.4
5	4934.00	45.5 PK	74.0	-28.5	3.16 H	302	42.3	3.2
6	4934.00	32.5 AV	54.0	-21.5	3.16 H	302	29.3	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2467.00	102.7 PK			2.61 V	1	70.3	32.4
2	*2467.00	99.0 AV			2.61 V	1	66.6	32.4
3	2483.50	59.1 PK	74.0	-14.9	2.61 V	1	26.7	32.4
4	2483.50	47.7 AV	54.0	-6.3	2.61 V	1	15.3	32.4
5	4934.00	45.5 PK	74.0	-28.5	1.26 V	92	42.3	3.2
6	4934.00	32.2 AV	54.0	-21.8	1.26 V	92	29.0	3.2

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.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 13	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	*2472.00	96.2 PK			2.27 H	110	63.8	32.4
2	*2472.00	92.3 AV			2.27 H	110	59.9	32.4
3	2483.50	58.9 PK	74.0	-15.1	2.27 H	110	26.5	32.4
4	2483.50	47.0 AV	54.0	-7.0	2.27 H	110	14.6	32.4
5	4944.00	45.4 PK	74.0	-28.6	3.11 H	316	42.2	3.2
6	4944.00	32.4 AV	54.0	-21.6	3.11 H	316	29.2	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2472.00	102.5 PK			2.59 V	3	70.1	32.4
2	*2472.00	99.2 AV			2.59 V	3	66.8	32.4
3	2483.50	59.8 PK	74.0	-14.2	2.59 V	3	27.4	32.4
4	2483.50	47.6 AV	54.0	-6.4	2.59 V	3	15.2	32.4
5	4944.00	45.5 PK	74.0	-28.5	1.33 V	96	42.3	3.2
6	4944.00	32.3 AV	54.0	-21.7	1.33 V	96	29.1	3.2

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.
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.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.6 PK	74.0	-15.4	2.14 H	114	26.3	32.3
2	2390.00	46.6 AV	54.0	-7.4	2.14 H	114	14.3	32.3
3	*2412.00	98.1 PK			2.14 H	114	65.8	32.3
4	*2412.00	88.7 AV			2.14 H	114	56.4	32.3
5	4824.00	45.2 PK	74.0	-28.8	3.05 H	289	42.0	3.2
6	4824.00	32.2 AV	54.0	-21.8	3.05 H	289	29.0	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.4 PK	74.0	-14.6	2.67 V	1	27.1	32.3
2	2390.00	47.0 AV	54.0	-7.0	2.67 V	1	14.7	32.3
3	*2412.00	104.8 PK			2.67 V	1	72.5	32.3
4	*2412.00	95.5 AV			2.67 V	1	63.2	32.3
5	4824.00	45.4 PK	74.0	-28.6	1.32 V	105	42.2	3.2
6	4824.00	32.4 AV	54.0	-21.6	1.32 V	105	29.2	3.2

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.
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	103.8 PK			2.42 H	111	71.5	32.3
2	*2437.00	94.6 AV			2.42 H	111	62.3	32.3
3	4874.00	45.2 PK	74.0	-28.8	3.02 H	306	42.1	3.1
4	4874.00	32.2 AV	54.0	-21.8	3.02 H	306	29.1	3.1
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	*2437.00	109.4 PK			2.54 V	6	77.1	32.3
2	*2437.00	100.3 AV			2.54 V	6	68.0	32.3
3	4874.00	45.3 PK	74.0	-28.7	1.23 V	96	42.2	3.1
4	4874.00	32.3 AV	54.0	-21.7	1.23 V	96	29.2	3.1

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.

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	98.2 PK			2.24 H	114	65.8	32.4
2	*2462.00	89.2 AV			2.24 H	114	56.8	32.4
3	2483.50	58.9 PK	74.0	-15.1	2.24 H	114	26.5	32.4
4	2483.50	46.9 AV	54.0	-7.1	2.24 H	114	14.5	32.4
5	4924.00	45.2 PK	74.0	-28.8	3.11 H	306	42.1	3.1
6	4924.00	32.2 AV	54.0	-21.8	3.11 H	306	29.1	3.1
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	105.5 PK			2.56 V	7	73.1	32.4
2	*2462.00	95.8 AV			2.56 V	7	63.4	32.4
3	2483.50	60.3 PK	74.0	-13.7	2.56 V	7	27.9	32.4
4	2483.50	47.3 AV	54.0	-6.7	2.56 V	7	14.9	32.4
5	4924.00	45.3 PK	74.0	-28.7	1.26 V	102	42.2	3.1
6	4924.00	32.2 AV	54.0	-21.8	1.26 V	102	29.1	3.1

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.

CHANNEL	TX Channel 12	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	*2467.00	96.1 PK			2.16 H	112	63.7	32.4
2	*2467.00	86.9 AV			2.16 H	112	54.5	32.4
3	2483.50	58.9 PK	74.0	-15.1	2.16 H	112	26.5	32.4
4	2483.50	46.7 AV	54.0	-7.3	2.16 H	112	14.3	32.4
5	4934.00	45.3 PK	74.0	-28.7	3.11 H	289	42.1	3.2
6	4934.00	32.4 AV	54.0	-21.6	3.11 H	289	29.2	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2467.00	102.5 PK			2.68 V	9	70.1	32.4
2	*2467.00	93.2 AV			2.68 V	9	60.8	32.4
3	2483.50	60.0 PK	74.0	-14.0	2.68 V	9	27.6	32.4
4	2483.50	47.6 AV	54.0	-6.4	2.68 V	9	15.2	32.4
5	4934.00	45.4 PK	74.0	-28.6	1.22 V	95	42.2	3.2
6	4934.00	32.3 AV	54.0	-21.7	1.22 V	95	29.1	3.2

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.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 13	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	*2472.00	92.8 PK			2.24 H	111	60.4	32.4
2	*2472.00	83.5 AV			2.24 H	111	51.1	32.4
3	2483.50	59.1 PK	74.0	-14.9	2.24 H	111	26.7	32.4
4	2483.50	46.9 AV	54.0	-7.1	2.24 H	111	14.5	32.4
5	4944.00	45.4 PK	74.0	-28.6	3.11 H	301	42.2	3.2
6	4944.00	32.3 AV	54.0	-21.7	3.11 H	301	29.1	3.2

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2472.00	99.7 PK			2.60 V	3	67.3	32.4
2	*2472.00	90.2 AV			2.60 V	3	57.8	32.4
3	2483.50	59.6 PK	74.0	-14.4	2.60 V	3	27.2	32.4
4	2483.50	47.3 AV	54.0	-6.7	2.60 V	3	14.9	32.4
5	4944.00	45.4 PK	74.0	-28.6	1.33 V	102	42.2	3.2
6	4944.00	32.3 AV	54.0	-21.7	1.33 V	102	29.1	3.2

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.
5. " * ": Fundamental frequency.

802.11n (VHT20)

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	59.0 PK	74.0	-15.0	2.71 H	119	26.7	32.3
2	2390.00	46.7 AV	54.0	-7.3	2.71 H	119	14.4	32.3
3	*2412.00	99.9 PK			2.71 H	119	67.6	32.3
4	*2412.00	90.1 AV			2.71 H	119	57.8	32.3
5	4824.00	46.4 PK	74.0	-27.6	2.63 H	333	43.2	3.2
6	4824.00	32.5 AV	54.0	-21.5	2.63 H	333	29.3	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	59.3 PK	74.0	-14.7	2.63 V	8	27.0	32.3
2	2390.00	47.0 AV	54.0	-7.0	2.63 V	8	14.7	32.3
3	*2412.00	104.8 PK			2.63 V	8	72.5	32.3
4	*2412.00	95.3 AV			2.63 V	8	63.0	32.3
5	4824.00	46.7 PK	74.0	-27.3	2.20 V	203	43.5	3.2
6	4824.00	32.8 AV	54.0	-21.2	2.20 V	203	29.6	3.2

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.
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	103.3 PK			3.77 H	130	71.0	32.3
2	*2437.00	93.4 AV			3.77 H	130	61.1	32.3
3	4874.00	46.5 PK	74.0	-27.5	2.75 H	321	43.4	3.1
4	4874.00	32.6 AV	54.0	-21.4	2.75 H	321	29.5	3.1
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	*2437.00	110.0 PK			2.59 V	5	77.7	32.3
2	*2437.00	100.5 AV			2.59 V	5	68.2	32.3
3	4874.00	46.7 PK	74.0	-27.3	2.15 V	209	43.6	3.1
4	4874.00	32.8 AV	54.0	-21.2	2.15 V	209	29.7	3.1

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.

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	99.9 PK			4.00 H	213	67.5	32.4
2	*2462.00	90.3 AV			4.00 H	213	57.9	32.4
3	2483.50	59.6 PK	74.0	-14.4	4.00 H	213	27.2	32.4
4	2483.50	47.0 AV	54.0	-7.0	4.00 H	213	14.6	32.4
5	4924.00	46.1 PK	74.0	-27.9	3.03 H	313	43.0	3.1
6	4924.00	32.2 AV	54.0	-21.8	3.03 H	313	29.1	3.1
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	106.3 PK			2.59 V	10	73.9	32.4
2	*2462.00	96.7 AV			2.59 V	10	64.3	32.4
3	2483.50	59.9 PK	74.0	-14.1	2.59 V	10	27.5	32.4
4	2483.50	47.2 AV	54.0	-6.8	2.59 V	10	14.8	32.4
5	4924.00	46.4 PK	74.0	-27.6	2.19 V	191	43.3	3.1
6	4924.00	32.5 AV	54.0	-21.5	2.19 V	191	29.4	3.1

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.

CHANNEL	TX Channel 12	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	*2467.00	97.6 PK			3.99 H	211	65.2	32.4
2	*2467.00	88.0 AV			3.99 H	211	55.6	32.4
3	2483.50	59.6 PK	74.0	-14.4	3.99 H	211	27.2	32.4
4	2483.50	46.9 AV	54.0	-7.1	3.99 H	211	14.5	32.4
5	4934.00	46.7 PK	74.0	-27.3	2.93 H	342	43.5	3.2
6	4934.00	32.7 AV	54.0	-21.3	2.93 H	342	29.5	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2467.00	103.9 PK			2.81 V	5	71.5	32.4
2	*2467.00	94.4 AV			2.81 V	5	62.0	32.4
3	2483.50	59.9 PK	74.0	-14.1	2.81 V	5	27.5	32.4
4	2483.50	47.2 AV	54.0	-6.8	2.81 V	5	14.8	32.4
5	4934.00	46.9 PK	74.0	-27.1	2.15 V	220	43.7	3.2
6	4934.00	32.8 AV	54.0	-21.2	2.15 V	220	29.6	3.2

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.
5. " * ": Fundamental frequency.

CHANNEL	TX Channel 13	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	*2472.00	92.3 PK			3.98 H	129	59.9	32.4
2	*2472.00	82.6 AV			3.98 H	129	50.2	32.4
3	2483.50	59.9 PK	74.0	-14.1	3.98 H	131	27.5	32.4
4	2483.50	46.9 AV	54.0	-7.1	3.98 H	131	14.5	32.4
5	4944.00	46.4 PK	74.0	-27.6	3.30 H	298	43.2	3.2
6	4944.00	32.5 AV	54.0	-21.5	3.30 H	298	29.3	3.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2472.00	100.2 PK			2.57 V	338	67.8	32.4
2	*2472.00	90.3 AV			2.57 V	338	57.9	32.4
3	2483.50	59.6 PK	74.0	-14.4	2.57 V	338	27.2	32.4
4	2483.50	47.3 AV	54.0	-6.7	2.57 V	338	14.9	32.4
5	4944.00	46.7 PK	74.0	-27.3	2.03 V	199	43.5	3.2
6	4944.00	32.7 AV	54.0	-21.3	2.03 V	199	29.5	3.2

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.
5. " * ": Fundamental frequency.

802.11n (VHT40)

CHANNEL	TX Channel 3	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	58.8 PK	74.0	-15.2	2.75 H	140	26.5	32.3
2	2390.00	46.6 AV	54.0	-7.4	2.75 H	140	14.3	32.3
3	*2422.00	95.4 PK			2.75 H	140	63.1	32.3
4	*2422.00	86.4 AV			2.75 H	140	54.1	32.3
5	4844.00	45.9 PK	74.0	-28.1	2.66 H	336	42.8	3.1
6	4844.00	32.3 AV	54.0	-21.7	2.66 H	336	29.2	3.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	58.9 PK	74.0	-15.1	2.60 V	1	26.6	32.3
2	2390.00	47.3 AV	54.0	-6.7	2.60 V	1	15.0	32.3
3	*2422.00	100.7 PK			2.60 V	1	68.4	32.3
4	*2422.00	91.6 AV			2.60 V	1	59.3	32.3
5	4844.00	45.6 PK	74.0	-28.4	2.11 V	205	42.5	3.1
6	4844.00	32.3 AV	54.0	-21.7	2.11 V	205	29.2	3.1

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.

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	97.6 PK			2.77 H	127	65.3	32.3
2	*2437.00	88.6 AV			2.77 H	127	56.3	32.3
3	2483.50	59.1 PK	74.0	-14.9	2.77 H	127	26.7	32.4
4	2483.50	46.7 AV	54.0	-7.3	2.77 H	127	14.3	32.4
5	4924.00	45.9 PK	74.0	-28.1	2.69 H	336	42.8	3.1
6	4924.00	32.4 AV	54.0	-21.6	2.69 H	336	29.3	3.1
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	*2437.00	102.9 PK			2.56 V	4	70.6	32.3
2	*2437.00	94.1 AV			2.56 V	4	61.8	32.3
3	2483.50	60.1 PK	74.0	-13.9	2.56 V	4	27.7	32.4
4	2483.50	48.2 AV	54.0	-5.8	2.56 V	4	15.8	32.4
5	4874.00	45.4 PK	74.0	-28.6	2.26 V	201	42.3	3.1
6	4874.00	32.3 AV	54.0	-21.7	2.26 V	201	29.2	3.1

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.

CHANNEL	TX Channel 9	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	*2452.00	94.0 PK			2.75 H	155	61.6	32.4
2	*2452.00	84.9 AV			2.75 H	155	52.5	32.4
3	2483.50	59.2 PK	74.0	-14.8	2.75 H	155	26.8	32.4
4	2483.50	46.8 AV	54.0	-7.2	2.75 H	155	14.4	32.4
5	4904.00	45.5 PK	74.0	-28.5	2.55 H	339	42.5	3.0
6	4904.00	32.1 AV	54.0	-21.9	2.55 H	339	29.1	3.0
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	*2452.00	101.4 PK			2.66 V	6	69.0	32.4
2	*2452.00	92.5 AV			2.66 V	6	60.1	32.4
3	2483.50	61.1 PK	74.0	-12.9	2.66 V	6	28.7	32.4
4	2483.50	49.0 AV	54.0	-5.0	2.66 V	6	16.6	32.4
5	4904.00	45.3 PK	74.0	-28.7	2.02 V	226	42.3	3.0
6	4904.00	32.2 AV	54.0	-21.8	2.02 V	226	29.2	3.0

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 10	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	*2457.00	92.3 PK			2.78 H	116	59.9	32.4
2	*2457.00	83.7 AV			2.78 H	116	51.3	32.4
3	2483.50	58.9 PK	74.0	-15.1	2.78 H	116	26.5	32.4
4	2483.50	46.7 AV	54.0	-7.3	2.78 H	116	14.3	32.4
5	4914.00	45.4 PK	74.0	-28.6	2.73 H	341	42.3	3.1
6	4914.00	32.2 AV	54.0	-21.8	2.73 H	341	29.1	3.1
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	*2457.00	98.5 PK			2.79 V	1	66.1	32.4
2	*2457.00	89.5 AV			2.79 V	1	57.1	32.4
3	2483.50	60.6 PK	74.0	-13.4	2.79 V	1	28.2	32.4
4	2483.50	48.4 AV	54.0	-5.6	2.79 V	1	16.0	32.4
5	4914.00	45.3 PK	74.0	-28.7	2.25 V	196	42.2	3.1
6	4914.00	32.2 AV	54.0	-21.8	2.25 V	196	29.1	3.1

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.

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	91.0 PK			3.32 H	128	58.6	32.4
2	*2462.00	81.8 AV			3.32 H	128	49.4	32.4
3	2483.50	59.1 PK	74.0	-14.9	3.32 H	128	26.7	32.4
4	2483.50	46.9 AV	54.0	-7.1	3.32 H	128	14.5	32.4
5	4924.00	45.8 PK	74.0	-28.2	2.59 H	319	42.7	3.1
6	4924.00	32.3 AV	54.0	-21.7	2.59 H	319	29.2	3.1
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	96.6 PK			2.69 V	3	64.2	32.4
2	*2462.00	87.8 AV			2.69 V	3	55.4	32.4
3	2483.50	68.1 PK	74.0	-5.9	2.69 V	3	35.7	32.4
4	2483.50	49.6 AV	54.0	-4.4	2.69 V	3	17.2	32.4
5	4924.00	45.9 PK	74.0	-28.1	2.26 V	201	42.8	3.1
6	4924.00	32.4 AV	54.0	-21.6	2.26 V	201	29.3	3.1

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.

9 kHz ~ 30 MHz Data:

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

30 MHz ~ 1 GHz Worst-Case Data:

Mode A

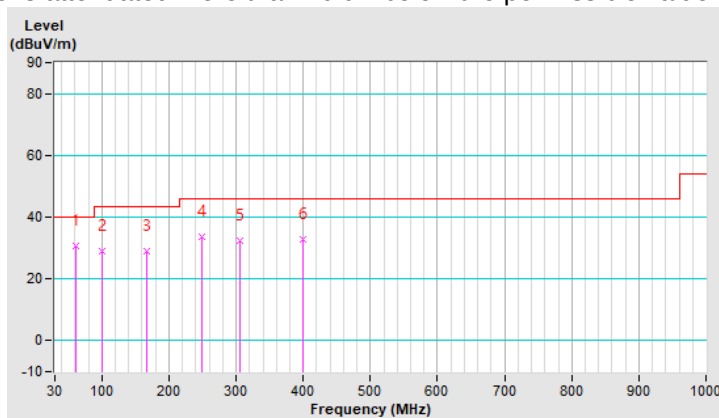
802.11g

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	60.93	30.6 QP	40.0	-9.4	2.00 H	181	40.0	-9.4
2	100.29	29.0 QP	43.5	-14.5	2.00 H	139	42.1	-13.1
3	167.77	29.1 QP	43.5	-14.4	1.01 H	232	37.8	-8.7
4	249.30	33.7 QP	46.0	-12.3	1.51 H	243	43.2	-9.5
5	305.54	32.2 QP	46.0	-13.8	1.01 H	271	39.4	-7.2
6	399.72	32.9 QP	46.0	-13.1	1.01 H	70	37.4	-4.5

REMARKS:

1. Emission Level(dBuV/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.

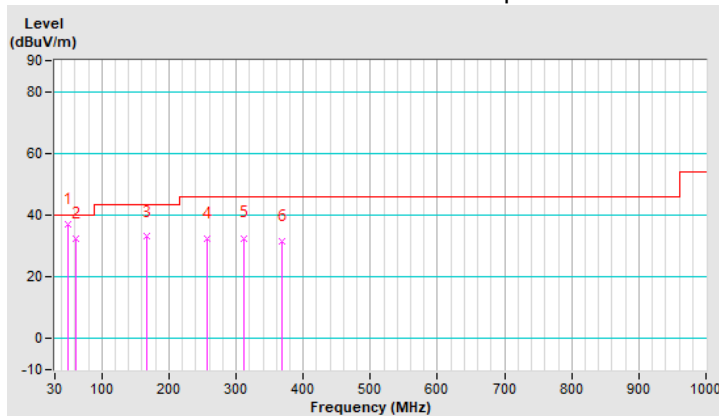


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	49.68	37.0 QP	40.0	-3.0	1.49 V	152	45.8	-8.8
2	60.93	32.3 QP	40.0	-7.7	1.49 V	288	41.7	-9.4
3	167.77	33.0 QP	43.5	-10.5	1.00 V	300	41.7	-8.7
4	256.33	32.2 QP	46.0	-13.8	1.49 V	16	41.4	-9.2
5	312.57	32.6 QP	46.0	-13.4	1.49 V	16	39.6	-7.0
6	367.39	31.4 QP	46.0	-14.6	1.49 V	16	36.8	-5.4

REMARKS:

1. Emission Level(dBuV/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

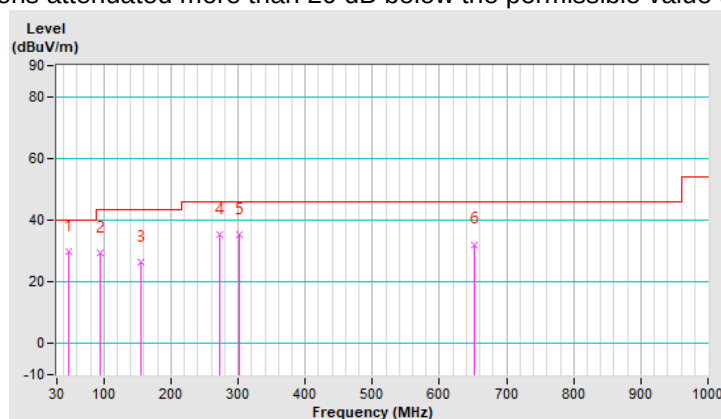
802.11g

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	48.28	29.7 QP	40.0	-10.3	1.99 H	322	38.4	-8.7
2	94.67	29.3 QP	43.5	-14.2	1.99 H	132	43.3	-14.0
3	155.12	26.5 QP	43.5	-17.0	1.49 H	160	35.1	-8.6
4	271.80	35.4 QP	46.0	-10.6	1.00 H	108	43.7	-8.3
5	301.32	35.4 QP	46.0	-10.6	1.00 H	113	42.7	-7.3
6	652.77	32.2 QP	46.0	-13.8	1.00 H	216	30.7	1.5

REMARKS:

1. Emission Level(dBuV/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.

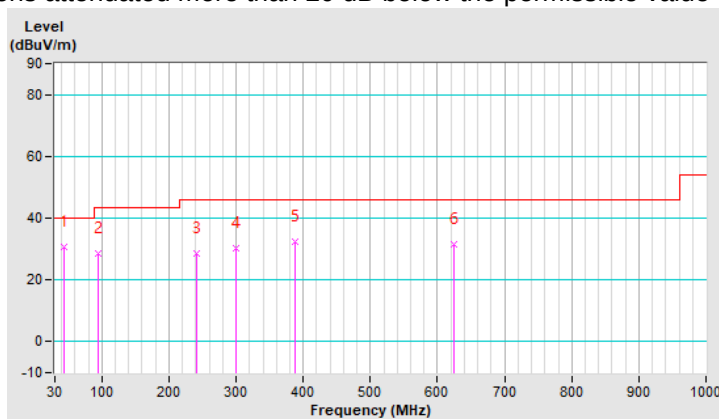


CHANNEL	TX Channel 6	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

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	44.06	30.6 QP	40.0	-9.4	1.00 V	92	39.6	-9.0
2	94.67	28.4 QP	43.5	-15.1	1.00 V	122	42.4	-14.0
3	240.87	28.6 QP	46.0	-17.4	1.00 V	264	38.4	-9.8
4	299.91	30.1 QP	46.0	-15.9	1.51 V	357	37.4	-7.3
5	388.48	32.4 QP	46.0	-13.6	1.51 V	188	37.2	-4.8
6	624.65	31.7 QP	46.0	-14.3	1.51 V	199	30.3	1.4

REMARKS:

1. Emission Level(dBuV/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 Woken	5D-FB	Cable-cond1-01	Sep. 05, 2019	Sep. 04, 2020
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 21, 2019	Feb. 20, 2020
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

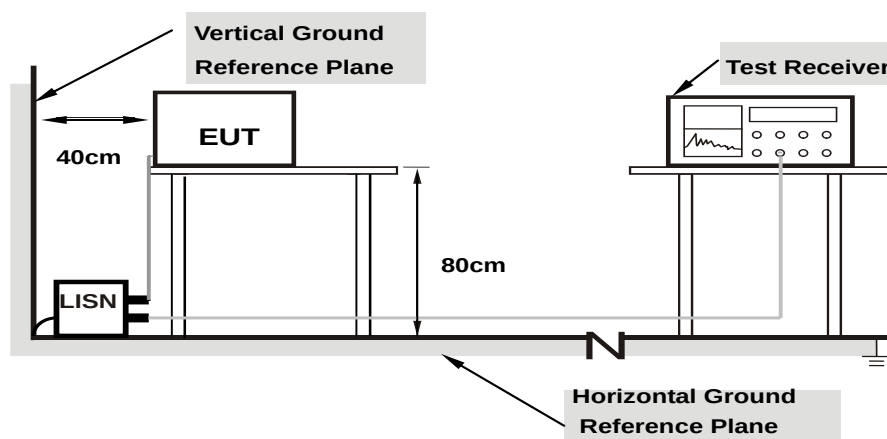
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance 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

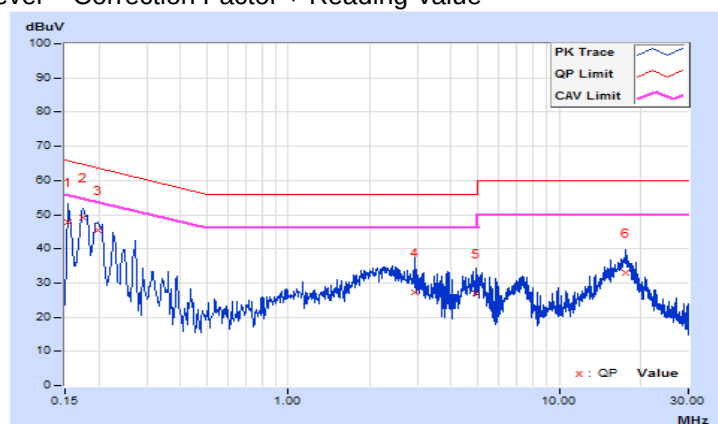
Mode A

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 67%RH

Phase Of Power : Line (L)										
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	9.63	38.11	23.11	47.74	32.74	65.78	55.78	-18.04	-23.04
2	0.17384	9.63	39.39	25.50	49.02	35.13	64.77	54.77	-15.75	-19.64
3	0.19728	9.62	35.91	23.56	45.53	33.18	63.72	53.72	-18.19	-20.54
4	2.94600	9.76	17.64	10.80	27.40	20.56	56.00	46.00	-28.60	-25.44
5	4.92600	9.80	17.28	10.05	27.08	19.85	56.00	46.00	-28.92	-26.15
6	17.69400	9.91	23.14	18.21	33.05	28.12	60.00	50.00	-26.95	-21.88

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

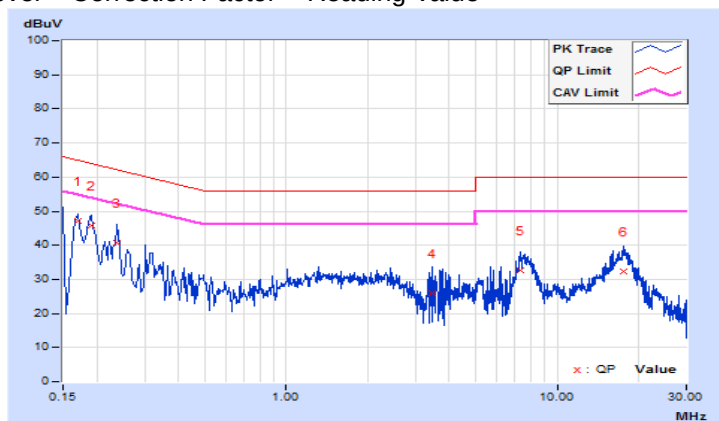


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 67%RH

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	0.17000	9.65	37.51	23.43	47.16	33.08	64.96	54.96	-17.80	-21.88
2	0.19000	9.64	36.20	25.93	45.84	35.57	64.04	54.04	-18.20	-18.47
3	0.23800	9.65	31.00	18.53	40.65	28.18	62.17	52.17	-21.52	-23.99
4	3.45400	9.80	16.14	2.68	25.94	12.48	56.00	46.00	-30.06	-33.52
5	7.30200	9.87	22.65	16.12	32.52	25.99	60.00	50.00	-27.48	-24.01
6	17.56972	10.01	22.43	17.35	32.44	27.36	60.00	50.00	-27.56	-22.64

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



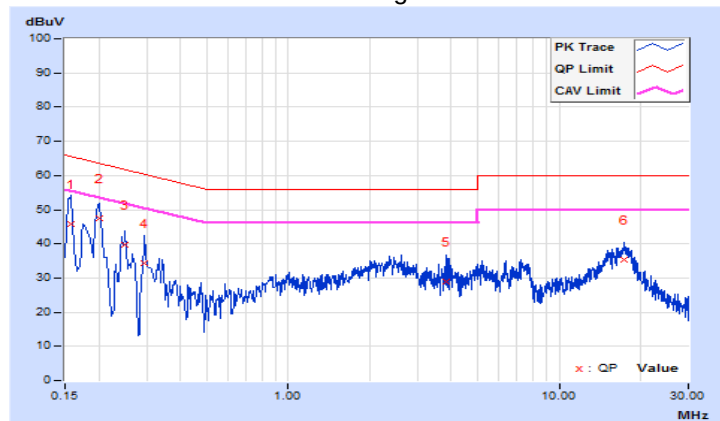
Mode B

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 67%RH

Phase Of Power : Line (L)										
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15770	9.63	36.19	17.70	45.82	27.33	65.58	55.58	-19.76	-28.25
2	0.20148	9.62	37.86	21.71	47.48	31.33	63.55	53.55	-16.07	-22.22
3	0.25000	9.63	30.03	14.42	39.66	24.05	61.76	51.76	-22.10	-27.71
4	0.29400	9.63	24.62	12.32	34.25	21.95	60.41	50.41	-26.16	-28.46
5	3.83000	9.78	19.20	10.06	28.98	19.84	56.00	46.00	-27.02	-26.16
6	17.26200	9.90	25.33	20.33	35.23	30.23	60.00	50.00	-24.77	-19.77

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

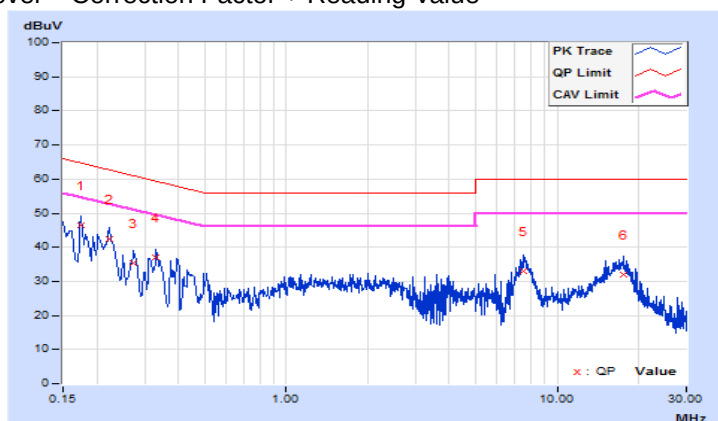


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	23°C, 67%RH

Phase Of Power : Neutral (N)										
No	Frequency	Correction Factor	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
	(MHz)	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17400	9.65	36.77	25.13	46.42	34.78	64.77	54.77	-18.35	-19.99
2	0.22200	9.64	32.92	25.22	42.56	34.86	62.74	52.74	-20.18	-17.88
3	0.27400	9.65	25.75	18.01	35.40	27.66	61.00	51.00	-25.60	-23.34
4	0.33000	9.66	27.27	20.75	36.93	30.41	59.45	49.45	-22.52	-19.04
5	7.54600	9.87	23.03	17.01	32.90	26.88	60.00	50.00	-27.10	-23.12
6	17.53000	10.01	21.82	16.83	31.83	26.84	60.00	50.00	-28.17	-23.16

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 Conducted Output Power Measurement

4.3.1 Limits of Conducted Output Power Measurement

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

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

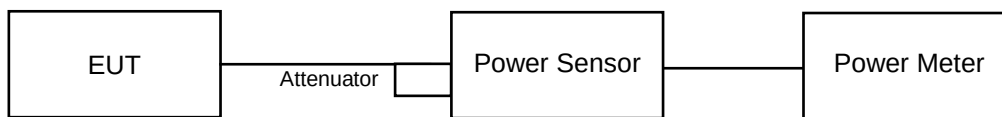
Array Gain = 0 dB (i.e., no array gain) for $NANT \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = $5 \log(NANT/NSS)$ dB or 3 dB, whichever is less for 20 MHz channel widths with $NANT \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(NANT/NSS)$ dB.

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 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.

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

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

802.11b

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	17.11	16.94	100.93	20.04	30	Pass
6	2437	17.11	17.03	101.86	20.08	30	Pass
11	2462	16.83	16.72	95.28	19.79	30	Pass
12	2467	11.96	11.66	30.34	14.82	30	Pass
13	2472	10.99	10.63	24.10	13.82	30	Pass

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	14.97	14.89	62.23	17.94	30	Pass
6	2437	15.85	15.72	75.86	18.80	30	Pass
11	2462	14.94	14.70	60.67	17.83	30	Pass
12	2467	9.88	9.81	19.32	12.86	30	Pass
13	2472	8.77	8.50	14.62	11.65	30	Pass

802.11g

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	20.65	18.57	187.93	22.74	30	Pass
6	2437	25.42	23.32	563.64	27.51	30	Pass
11	2462	17.85	18.01	124.17	20.94	30	Pass
12	2467	16.03	14.98	71.61	18.55	30	Pass
13	2472	12.83	12.46	36.81	15.66	30	Pass

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	9.95	9.85	19.54	12.91	30	Pass
6	2437	15.87	15.93	77.80	18.91	30	Pass
11	2462	9.95	9.92	19.72	12.95	30	Pass
12	2467	6.93	6.76	9.68	9.86	30	Pass
13	2472	3.86	3.84	4.85	6.86	30	Pass

802.11n (HT20)

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	18.13	16.36	108.14	20.34	30	Pass
6	2437	23.32	23.44	435.51	26.39	30	Pass
11	2462	17.87	18.12	126.18	21.01	30	Pass
12	2467	15.39	14.11	60.39	17.81	30	Pass
13	2472	12.40	13.77	41.21	16.15	30	Pass

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
1	2412	9.46	9.79	18.37	12.64	30	Pass
6	2437	15.76	15.87	76.38	18.83	30	Pass
11	2462	9.94	9.71	19.23	12.84	30	Pass
12	2467	6.99	6.67	9.64	9.84	30	Pass
13	2472	3.99	3.96	5.00	6.99	30	Pass

802.11n (HT40)

Channel	Frequency (MHz)	Peak Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	18.33	19.45	156.31	21.94	30	Pass
6	2437	22.21	20.87	288.40	24.60	30	Pass
9	2452	18.88	18.45	147.23	21.68	30	Pass
10	2457	16.29	16.38	86.10	19.35	30	Pass
11	2462	11.82	13.20	36.06	15.57	30	Pass

Channel	Frequency (MHz)	Average Power (dBm)		Total Power (mW)	Total Power (dBm)	Limit (dBm)	Pass / Fail
		Chain 0	Chain 1				
3	2422	9.69	9.58	18.41	12.65	30	Pass
6	2437	12.85	12.63	37.58	15.75	30	Pass
9	2452	9.60	9.91	18.92	12.77	30	Pass
10	2457	6.86	6.81	9.66	9.85	30	Pass
11	2462	3.92	3.81	4.88	6.88	30	Pass

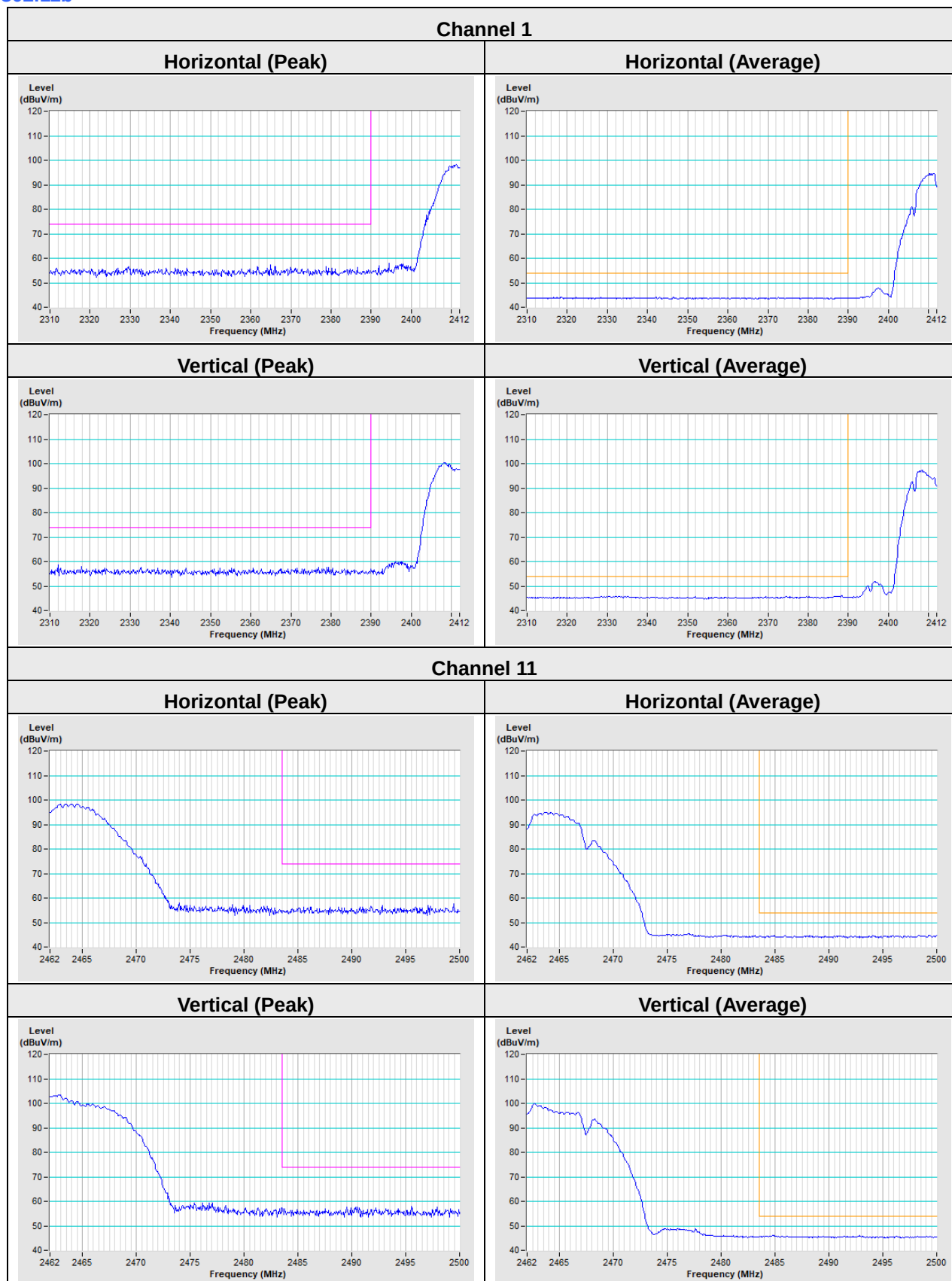
5 Pictures of Test Arrangements

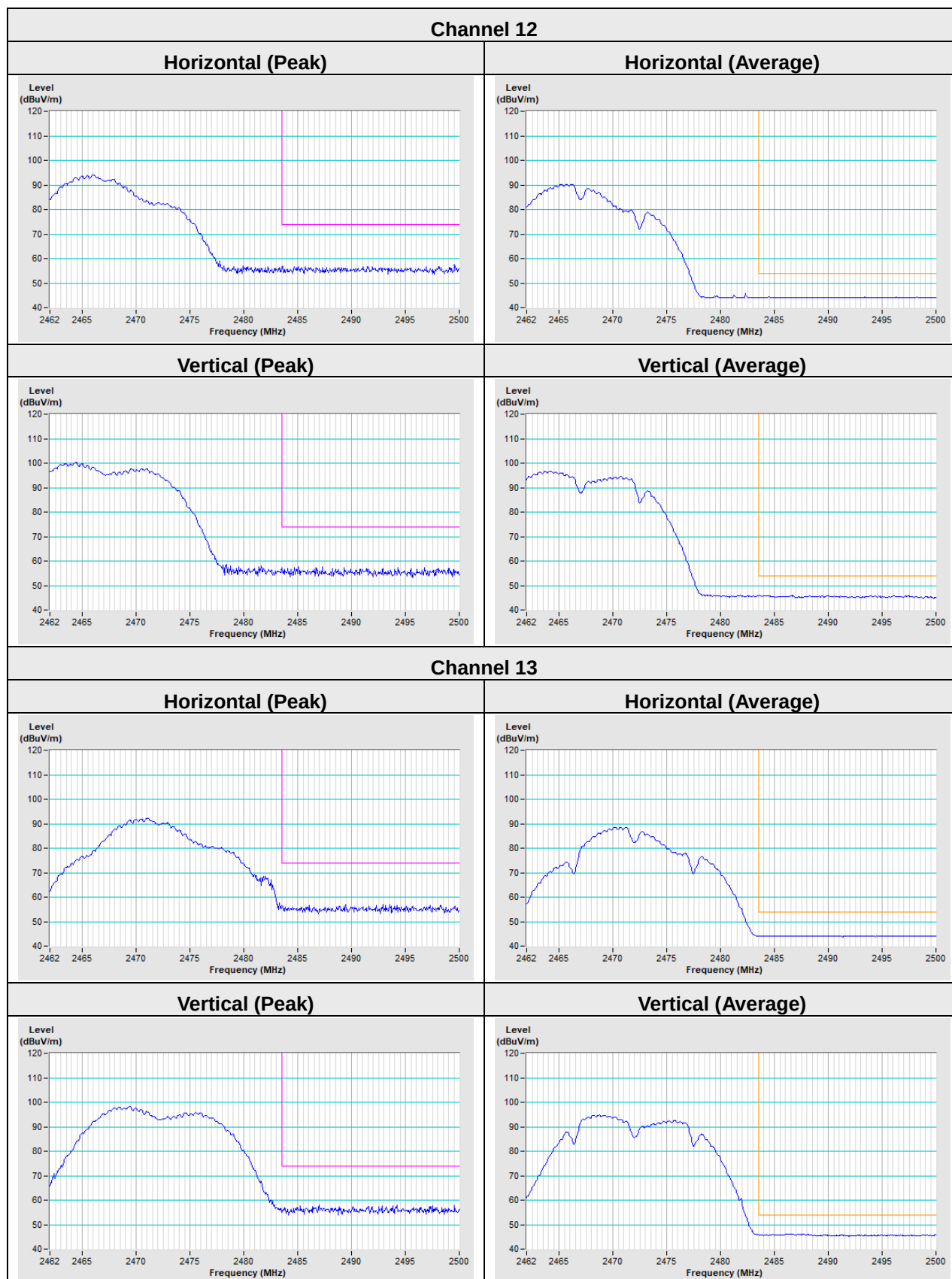
Please refer to the attached file (Test Setup Photo).

Annex A- Band Edge Measurement

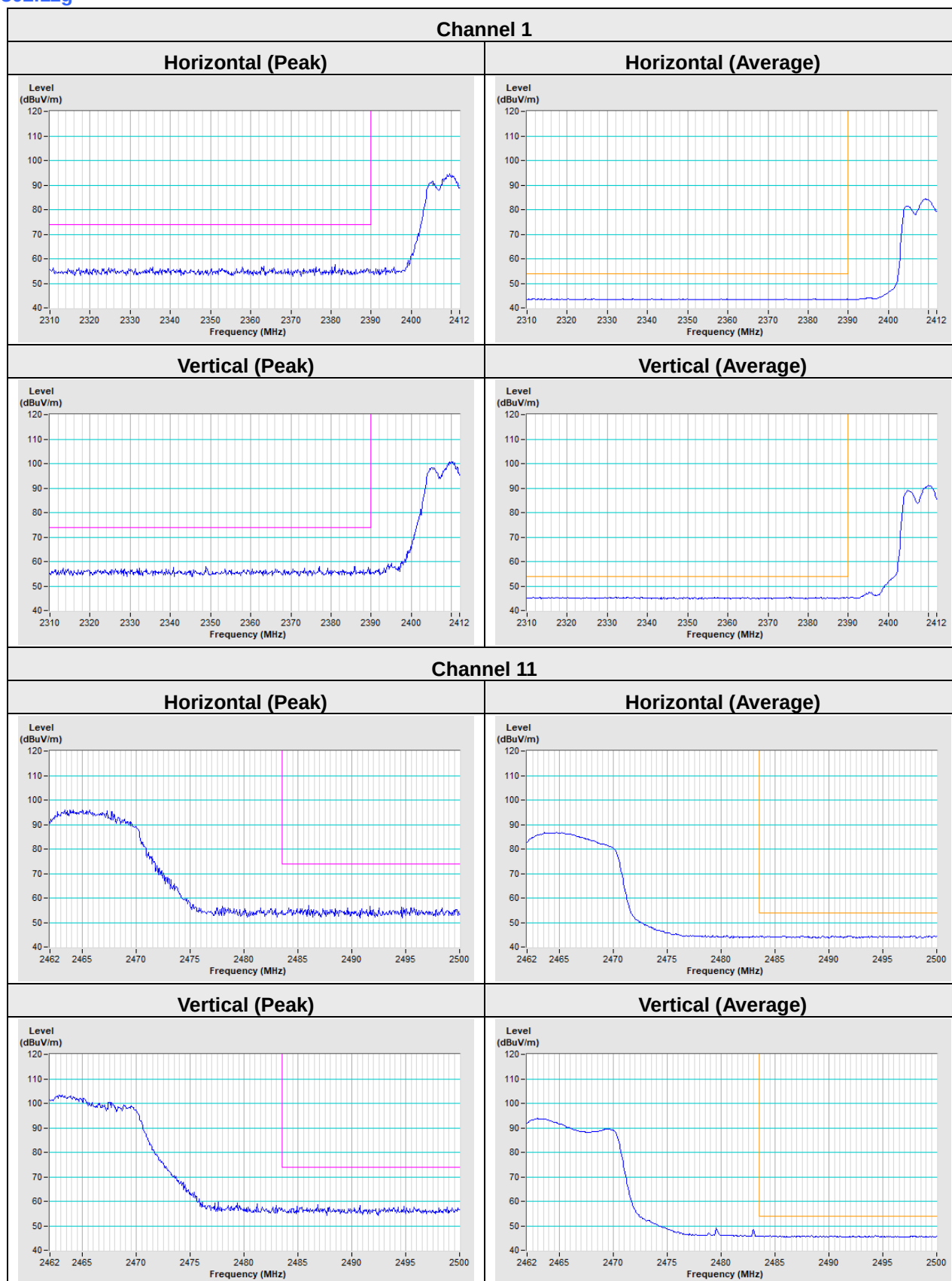
Mode A

802.11b



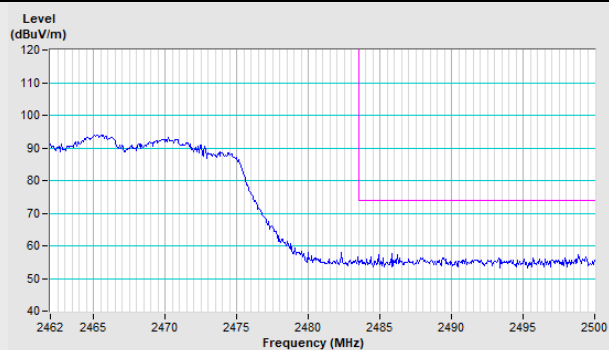


802.11g

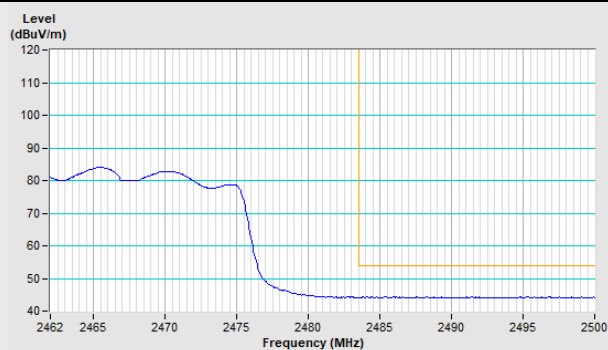


Channel 12

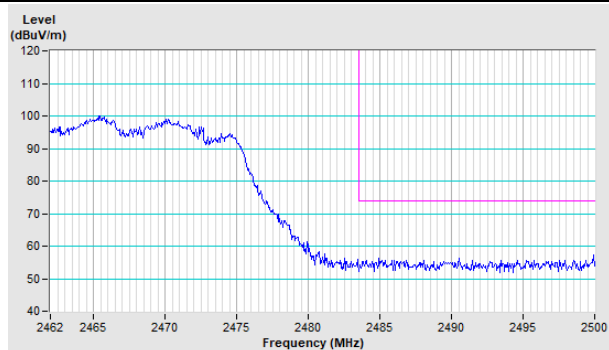
Horizontal (Peak)



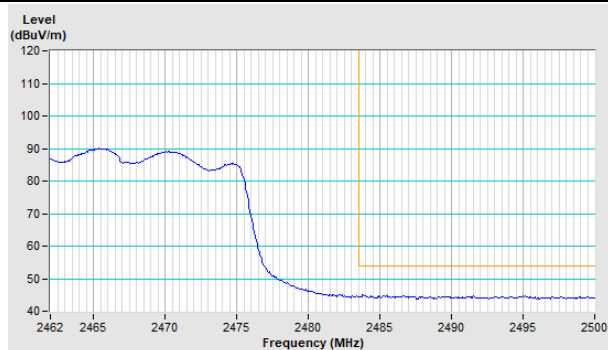
Horizontal (Average)



Vertical (Peak)

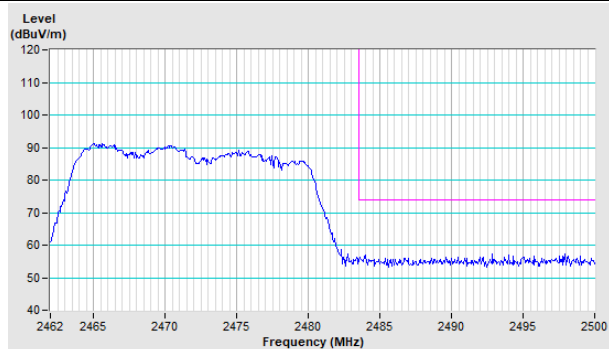


Vertical (Average)

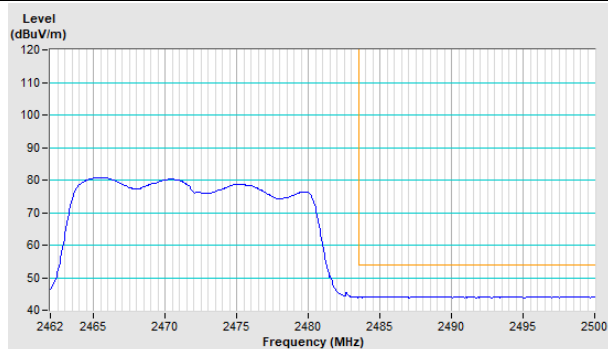


Channel 13

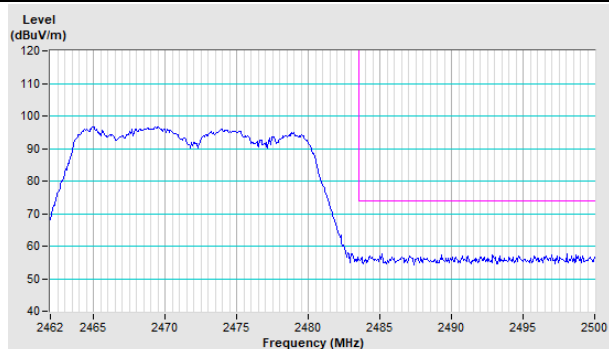
Horizontal (Peak)



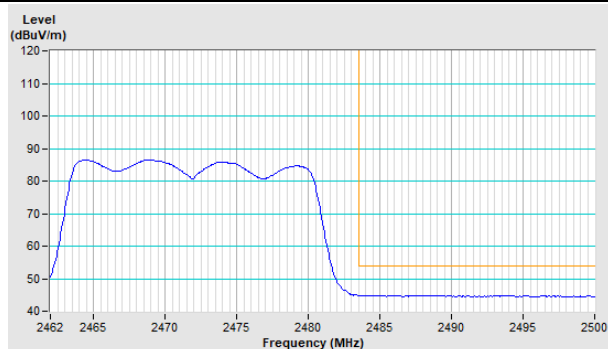
Horizontal (Average)



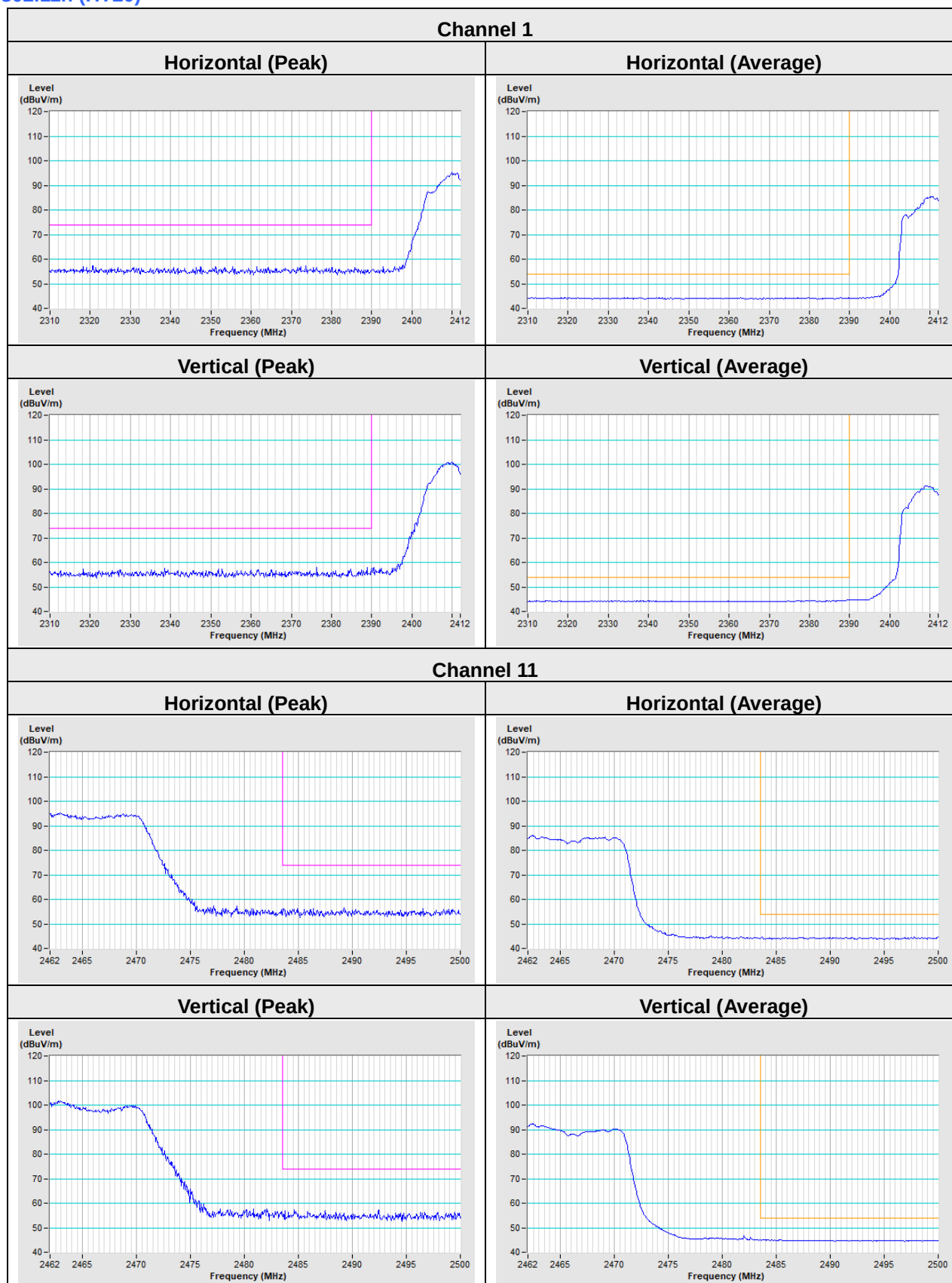
Vertical (Peak)

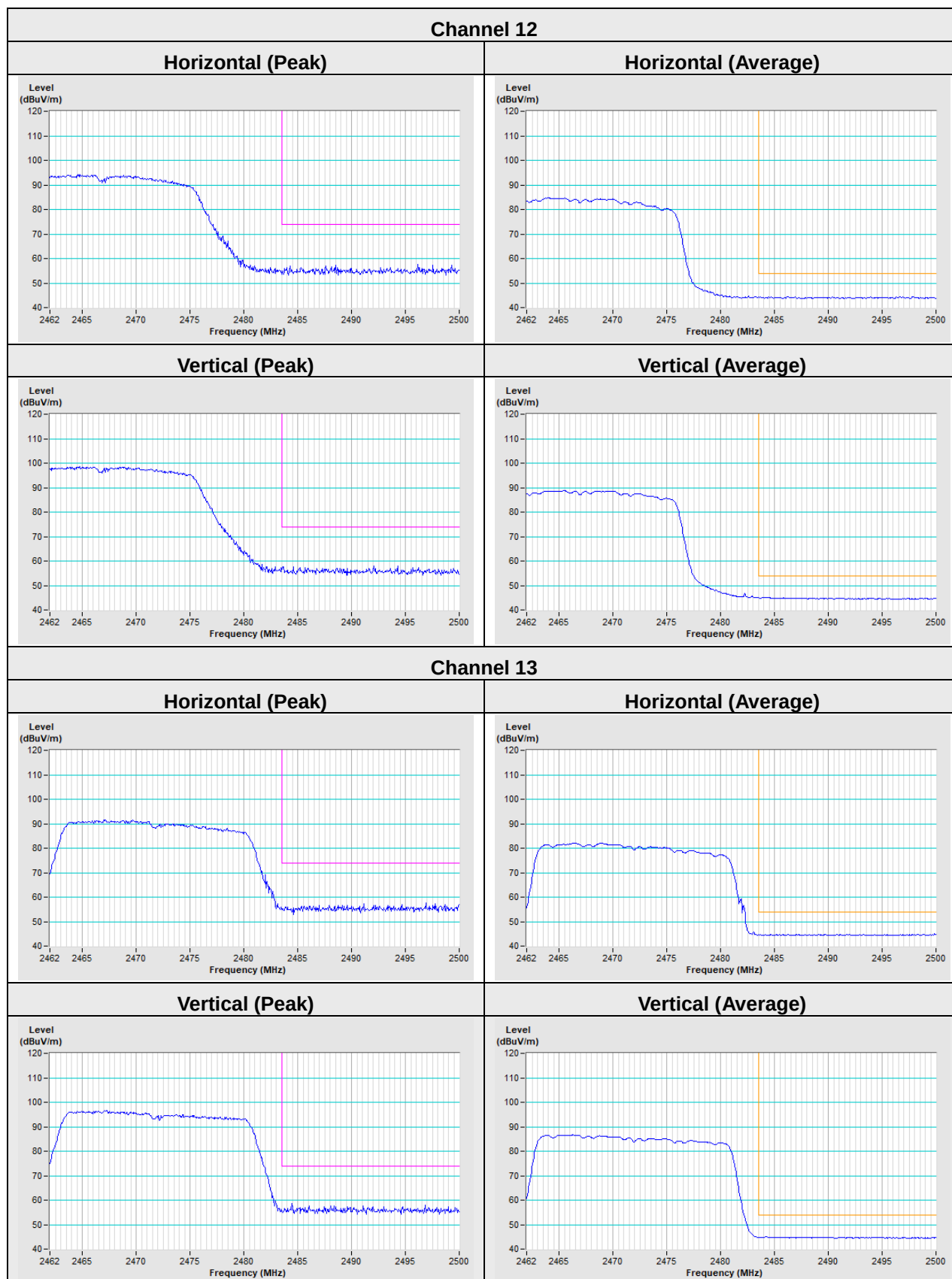


Vertical (Average)

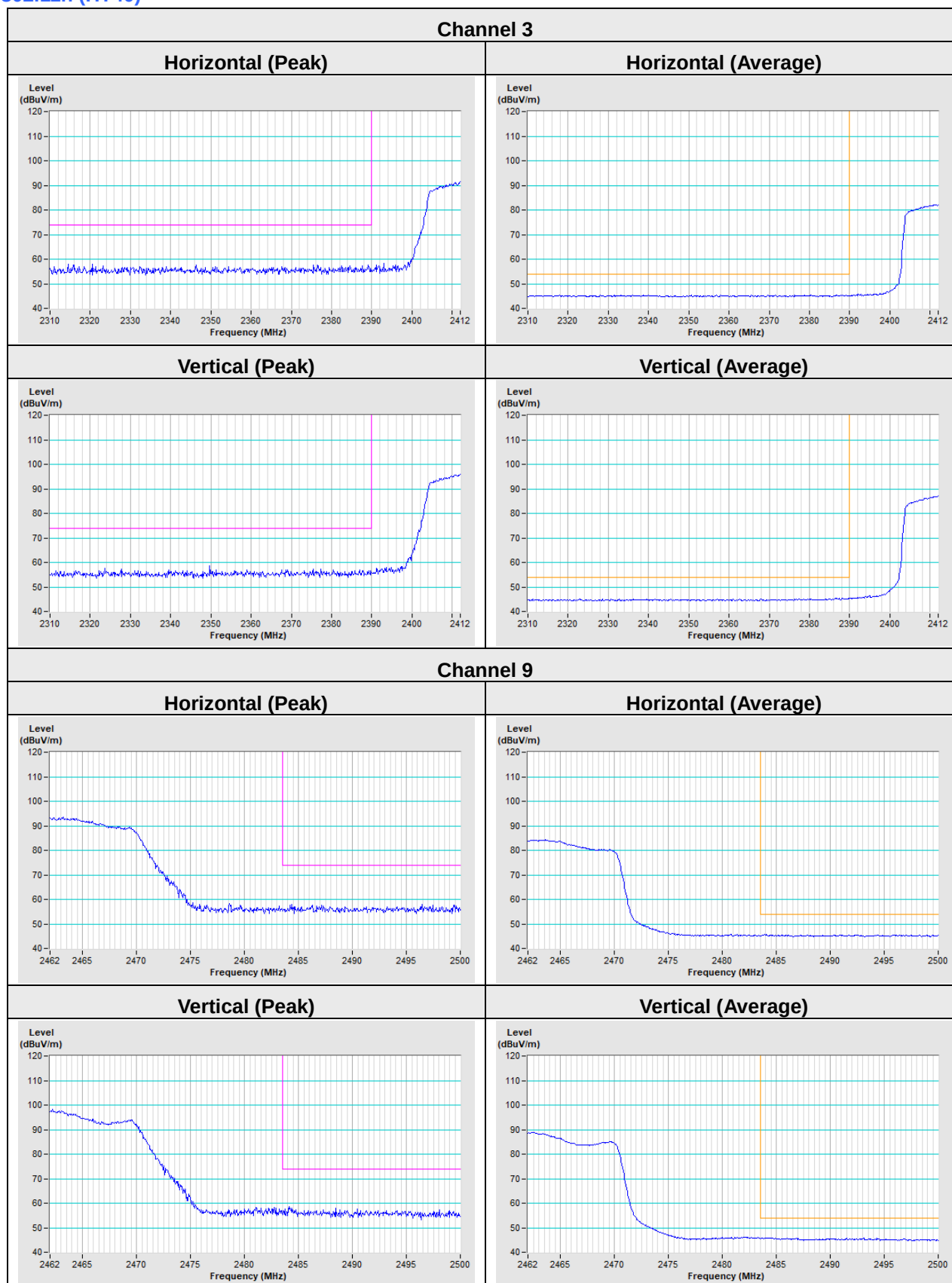


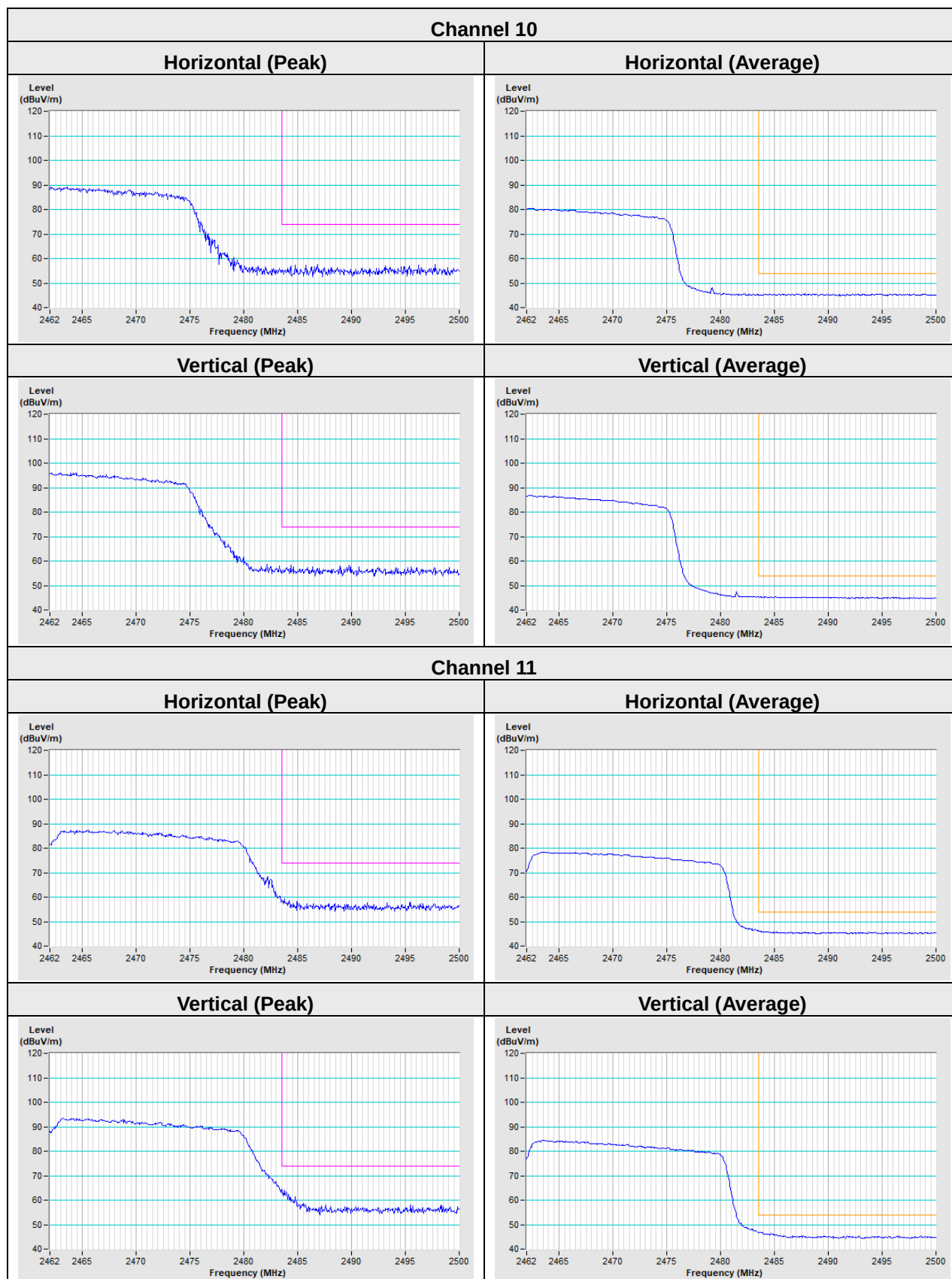
802.11n (HT20)





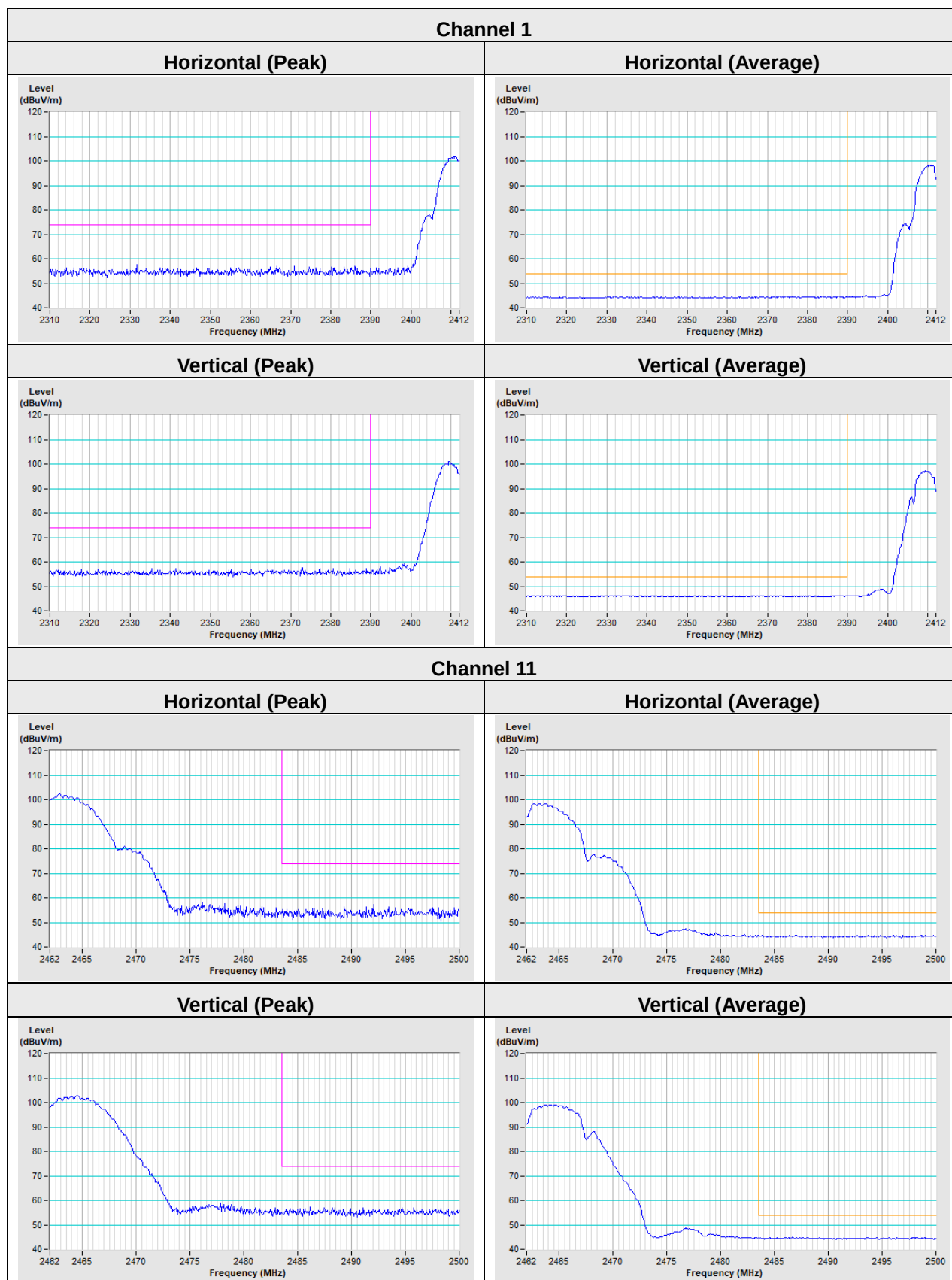
802.11n (HT40)

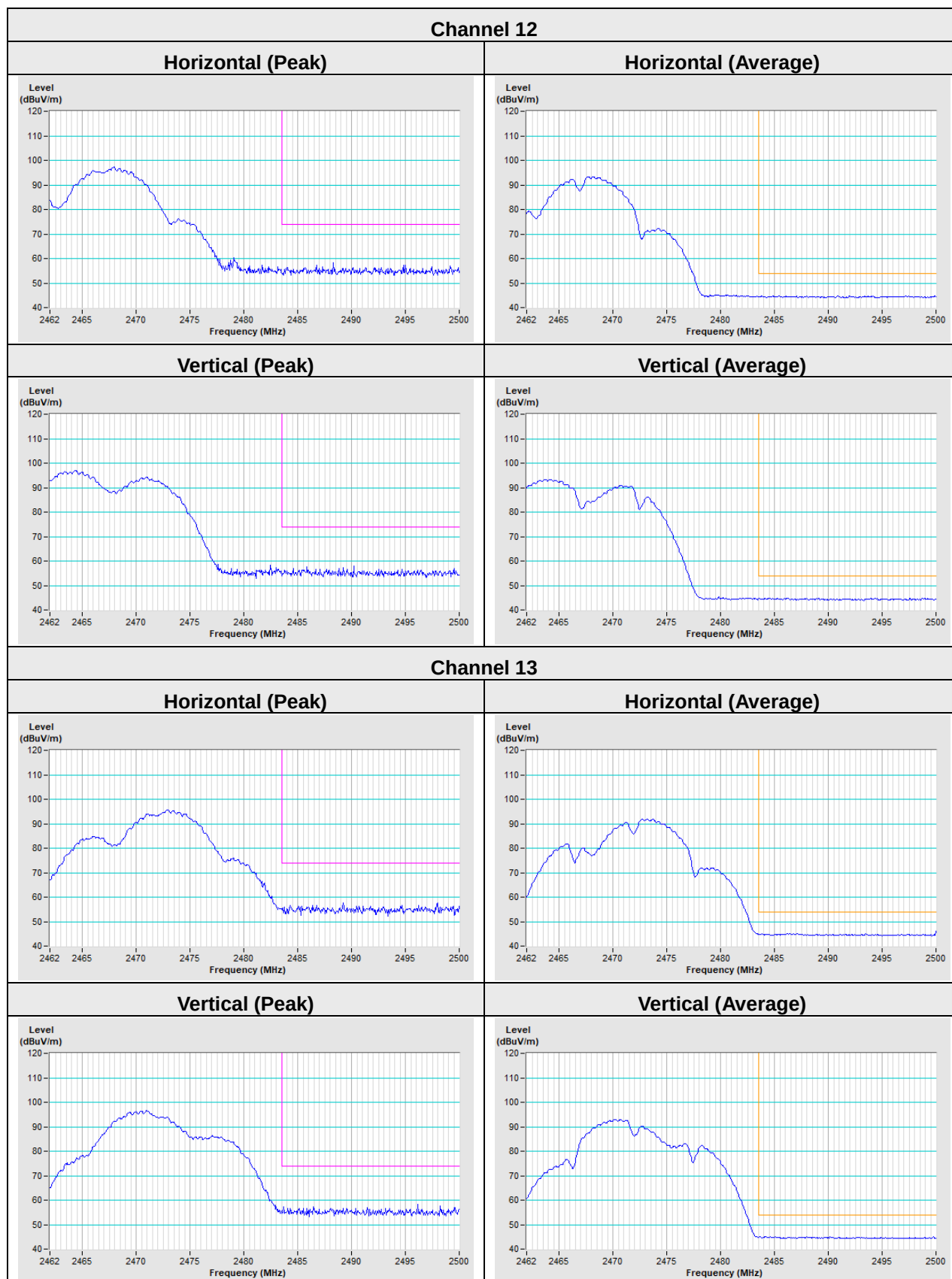




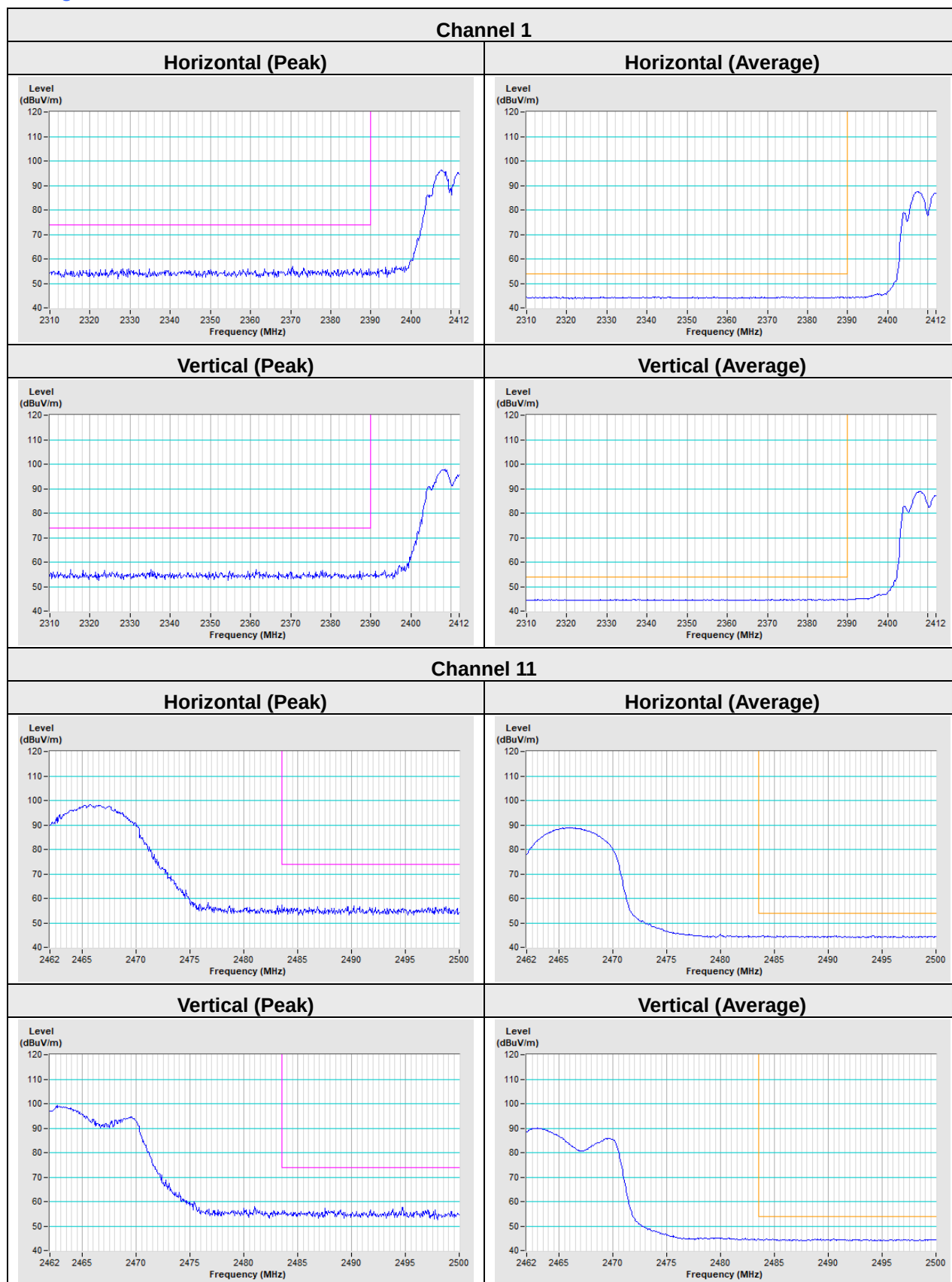
Mode B

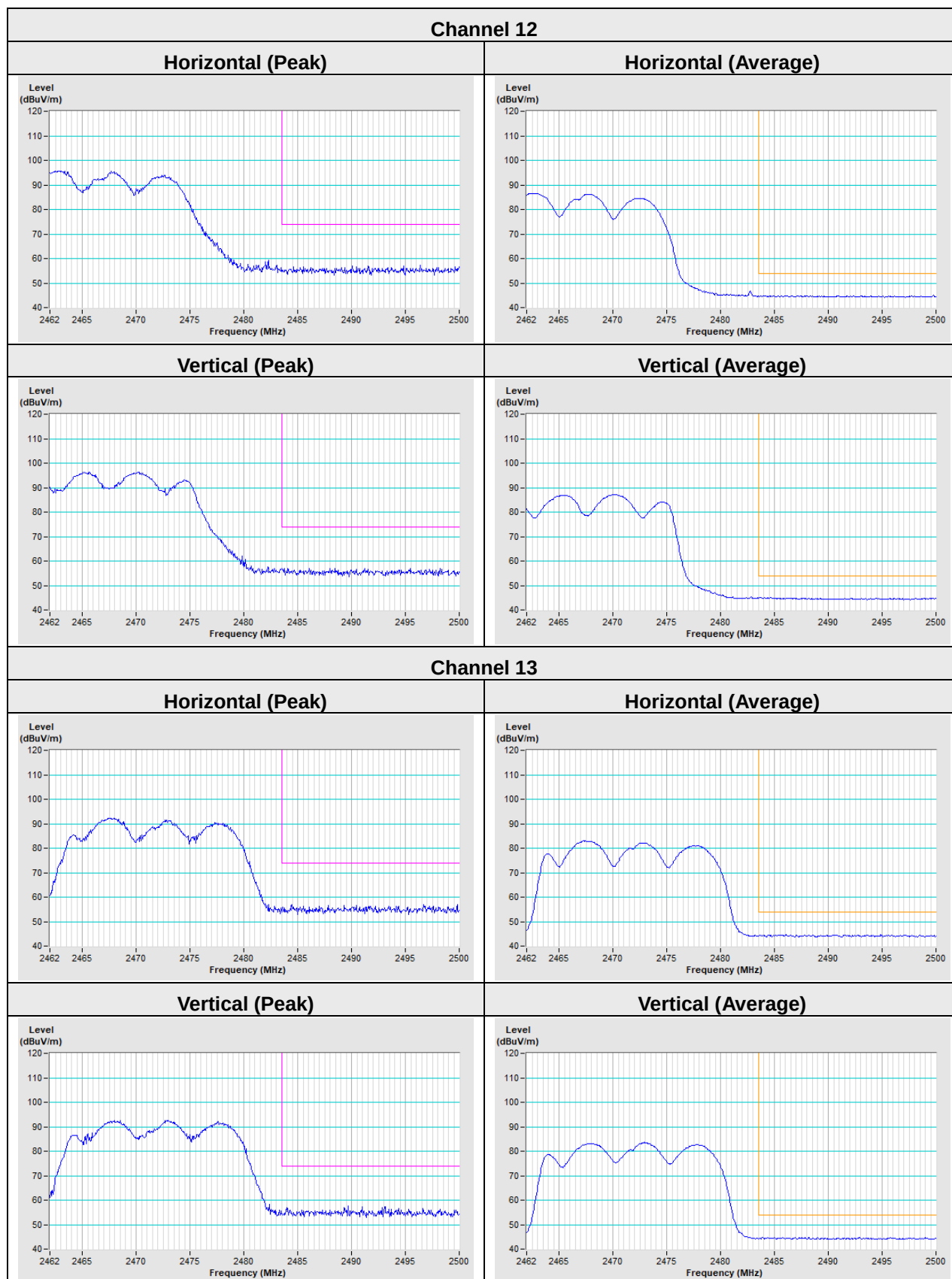
802.11b



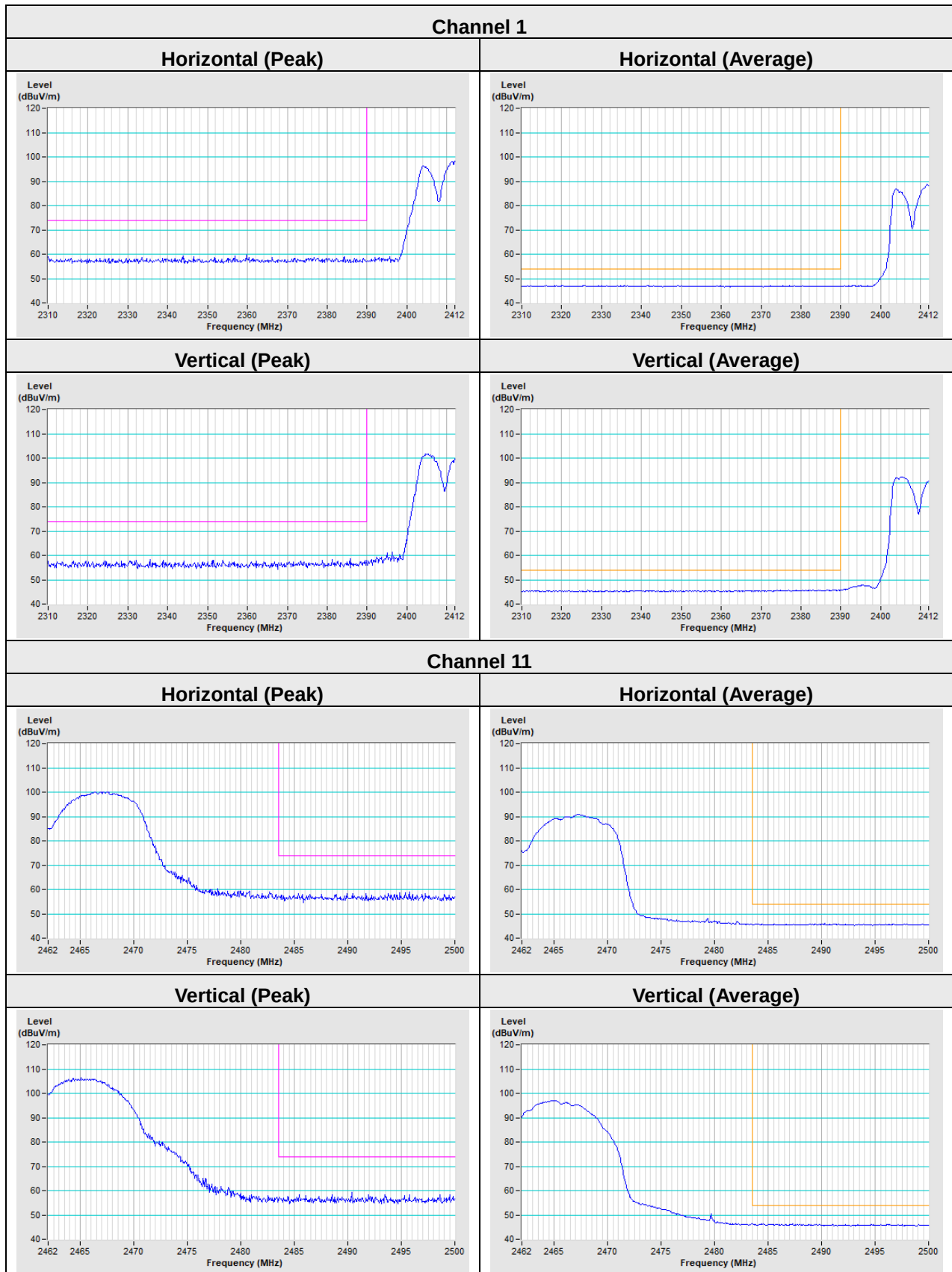


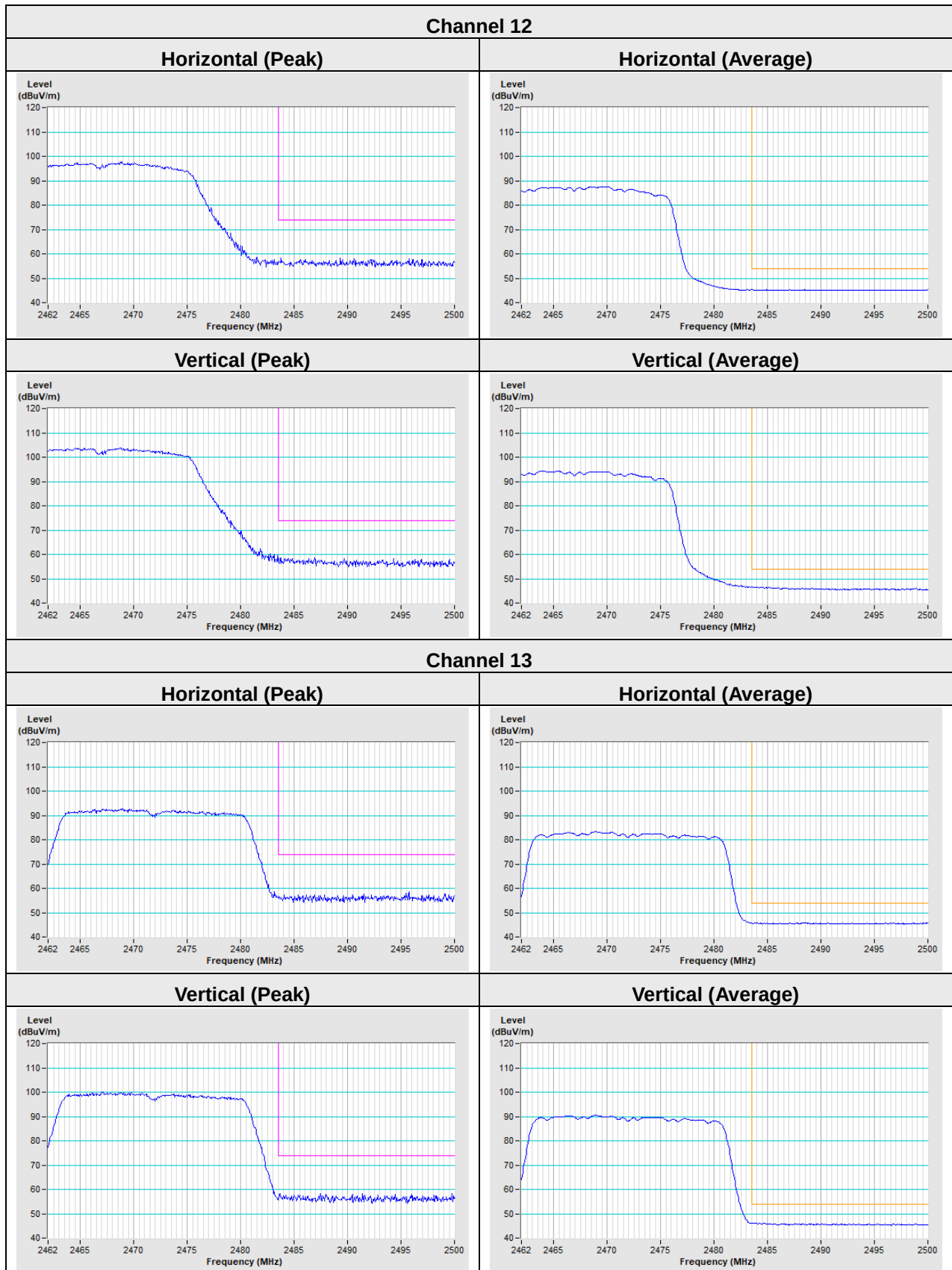
802.11g



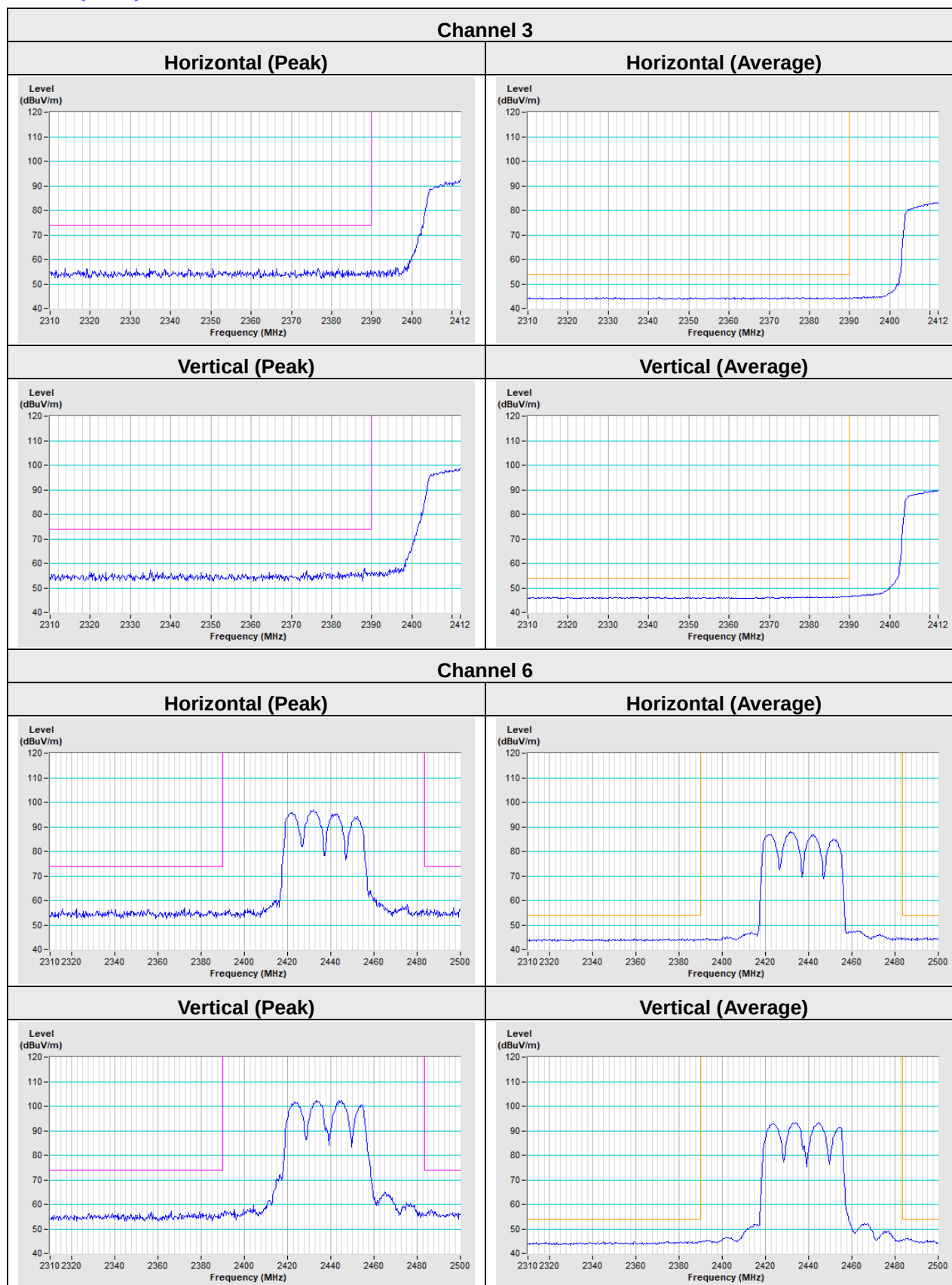


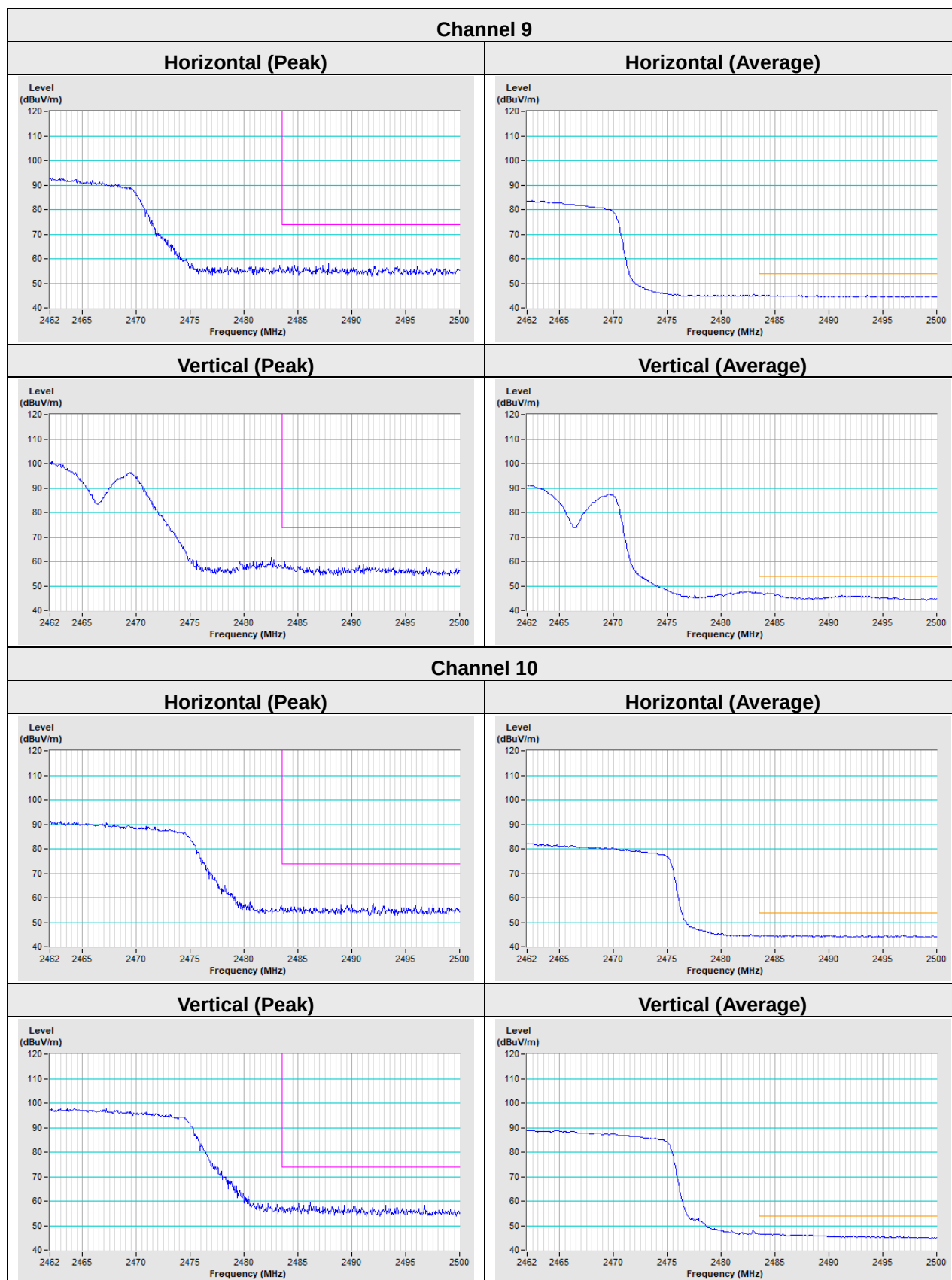
802.11n (HT20)

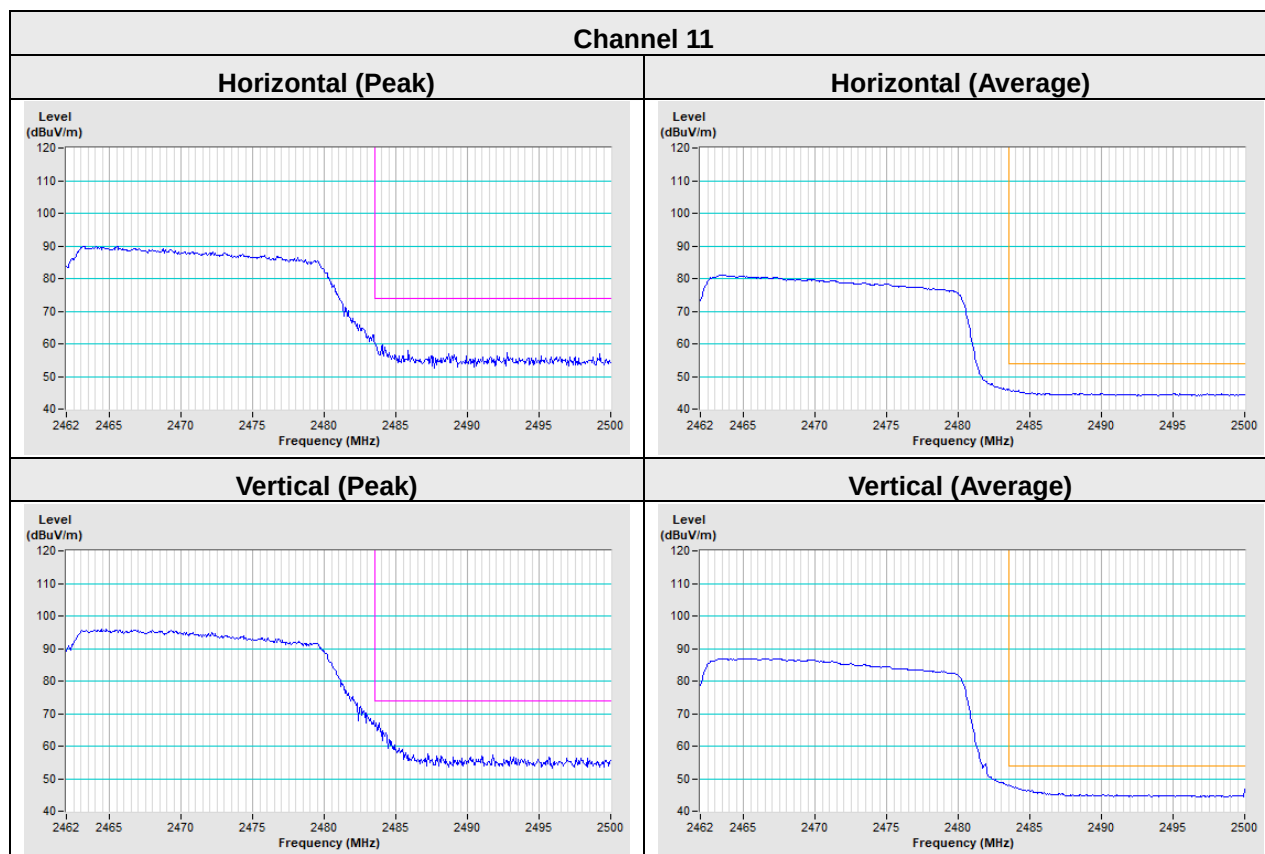




802.11n (HT40)







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:

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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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