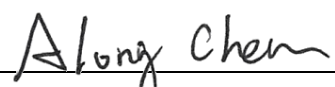


FCC Test Report

FCC ID : I8811ACAP22W
Equipment : 802.11ac Wave 2 Wall-Plate Unified Access Point
Model No. : WAC500H
Brand Name : ZYXEL
Applicant : Zyxel Communications Corporation
Address : No.2 Industry East RD. IX, Hsinchu Science Park, Hsinchu 30075, Taiwan, R.O.C
Standard : 47 CFR FCC Part 15.247
Received Date : Jun. 24, 2020
Tested Date : Jul. 24 ~ Aug. 29, 2020

We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR062401AC	Rev. 01	Initial issue	Oct. 07, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 16.661MHz 43.17(Margin -6.83dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2390.00MHz 53.85 (Margin -0.15dB) - AV	Pass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: <i>Non-beamforming mode</i> 26.68 <i>Beamforming mode</i> 21.75	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	2	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	2	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	2	MCS 0-15
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	2	MCS 0-15
2400-2483.5	ac (VHT20)	2412-2462	1-11 [11]	2	MCS 0-11
2400-2483.5	ac (VHT40)	2422-2452	3-9 [7]	2	MCS 0-11

Note 1: RF output power specifies that Maximum Conducted (Average) Output Power.
 Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
 Note 3: 802.11g/n/ac uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation..
 Note 4: 802.11ac supports beamforming function.

1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Antenna Gain (dBi)
1	Lynwave	ALX20M-222AA5	PIFA	N/A	0
2	Lynwave	ALX20M-222AA4	PIFA	N/A	0

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	12Vdc from adapter 30~57Vdc from POE
--------------------------	---

Note: The above power supply is not bundled in market.

1.1.4 Accessories

N/A

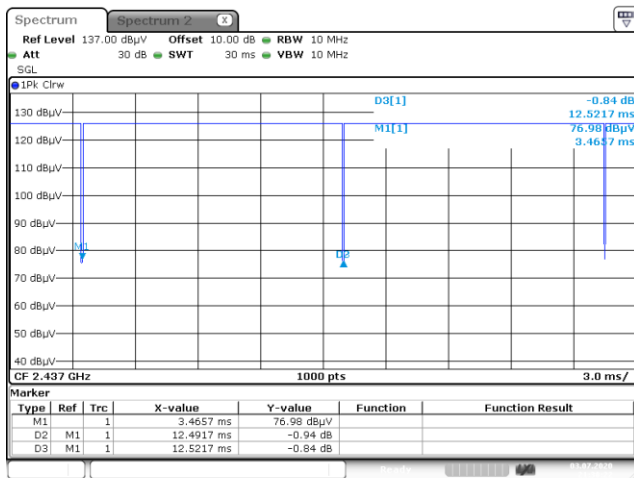
1.1.5 Channel List

Frequency band (MHz)		2400~2483.5	
802.11 b / g / n HT20 / ac VHT20		802.11n HT40 / ac VHT40	
Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	3	2422
2	2417	4	2427
3	2422	5	2432
4	2427	6	2437
5	2432	7	2442
6	2437	8	2447
7	2442	9	2452
8	2447	---	---
9	2452	---	---
10	2457	---	---
11	2462	---	---

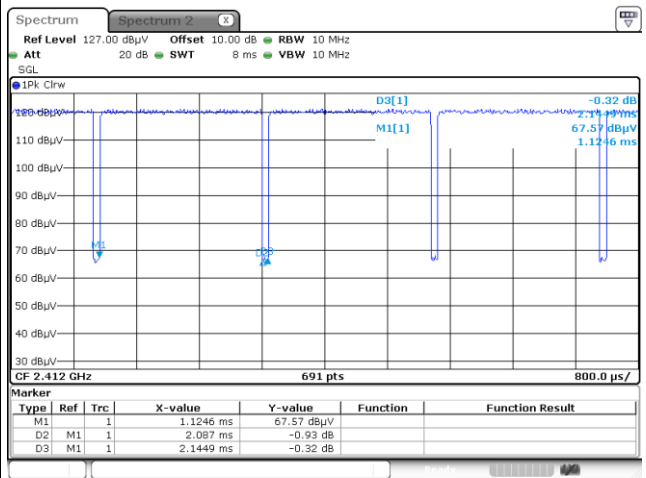
1.1.6 Test Tool and Duty Cycle

Test Tool	qdart_conn.win.1.0_installer, Version: 0073		
Duty Cycle and Duty Factor	Mode	Duty cycle (%)	Duty factor (dB)
	11b	99.76%	0.01
	11g	97.30%	0.12
	VHT20	99.14%	0.04
	VHT40	97.70%	0.10

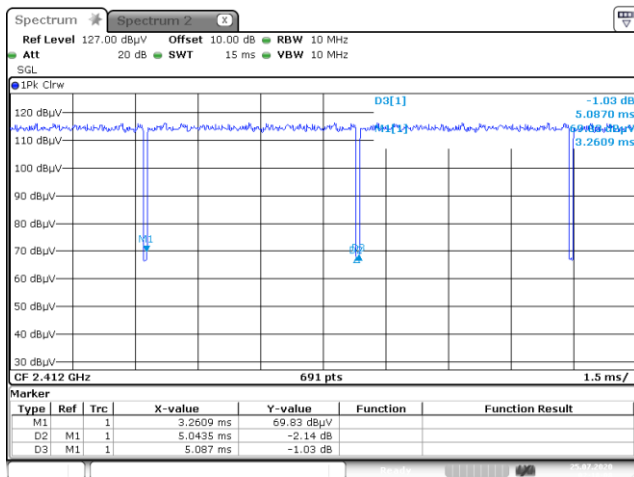
11b



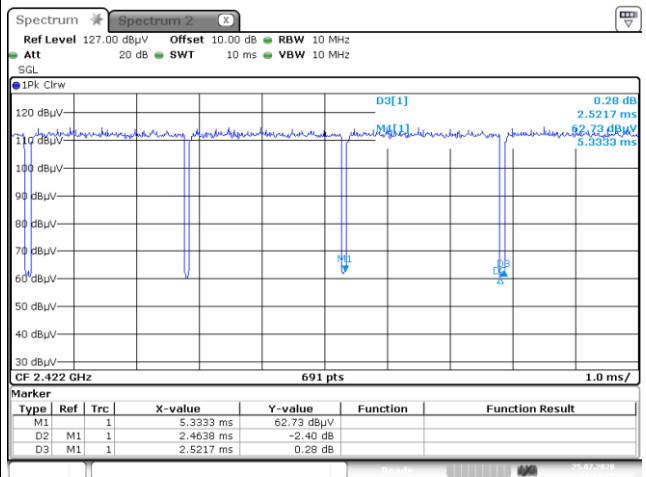
11g



ac (VHT20)



ac (VHT40)



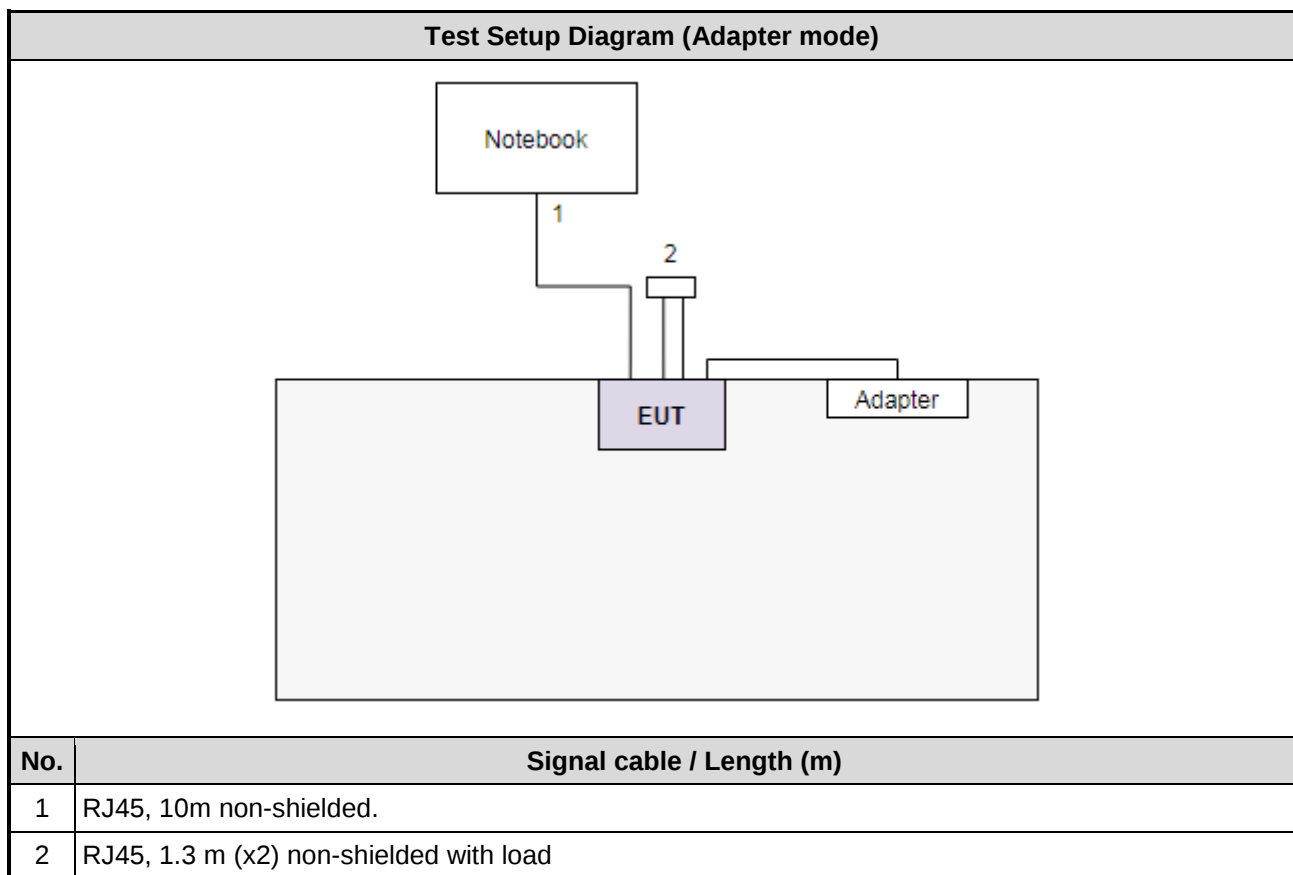
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11b	2412	19
11b	2437	23
11b	2462	19
11g	2412	15.5
11g	2437	22.5
11g	2462	16.5
VHT20	2412	12.5
VHT20	2437	21.5
VHT20	2462	16
VHT40	2422	11
VHT40	2437	16.5
VHT40	2452	14.5

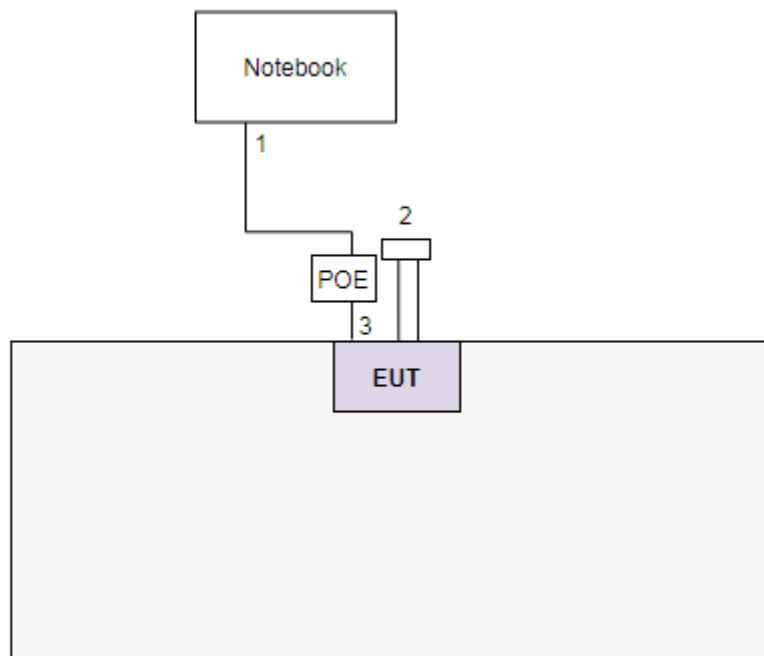
1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	RJ45	ICC	RJ45-1.3m	---	---
2	RJ45	ICC	RJ45-10m	---	---
3	RJ45 Load	ICC	---	---	---
4	Notebook	DELL	Latitude E5470	DoC	---
5	Notebook	DELL	Latitude E5470	DoC	---
6	RJ45	ICC	RJ45-1.3m	---	---
7	POE Switch	ZYXEL	XS1930-12HP	---	Provided by applicant.
8	Adapter	APD	WA-30P12R	---	Provided by applicant.

1.3 Test Setup Chart



Test Setup Diagram (POE mode)



No.	Signal cable / Length (m)
1	RJ45, 10m non-shielded.
2	RJ45, 1.3 m (x2) non-shielded with load
3	RJ45, 1.3m non-shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Test Date	Aug. 27, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 11, 2020
LISN	R&S	ENV216	101579	Mar. 12, 2020	Mar. 11, 2021
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 22, 2019	Oct. 21, 2020
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Test Date	Jul. 24 ~ Jul. 27, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 17, 2019	Dec. 16, 2020
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 10, 2020	Jul. 09, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 12, 2019	Dec. 11, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980225	Jul. 03, 2020	Jul. 02, 2021
Preamplifier	Agilent	83017A	MY39501308	Oct. 08, 2019	Oct. 07, 2020
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF Cable	EMC	EMC104-SM-SM-8000	181106	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 07, 2019	Oct. 06, 2020
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 07, 2019	Oct. 06, 2020
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 07, 2019	Oct. 06, 2020
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Oct. 07, 2019	Oct. 06, 2020
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Test Date	Aug. 29, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 30, 2020	Apr. 29, 2021
Power Meter	Anritsu	ML2495A	1241002	Oct. 23, 2019	Oct. 22, 2020
Power Sensor	Anritsu	MA2411B	1207366	Oct. 23, 2019	Oct. 22, 2020
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 02, 2019	Dec. 01, 2020
Measurement Software	Sporton	SENSE-15247_DTS	V5.9	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

47 CFR FCC Part 15.247

ANSI C63.10-2013

1.6 Reference Guidance

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor ($k=2$)).

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Radiated emission ≤ 1 GHz	± 3.41 dB
Radiated emission > 1 GHz	± 4.59 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corp.
Test Site	CO01-WS, 03CH01-WS, TH01-WS
Address of Test Site	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISSED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate (Mbps) / MCS	Test Configuration
Conducted Emissions	11b	2437	1 Mbps	1, 2
Radiated Emissions ≤1GHz	11b	2437	1 Mbps	1, 2
Maximum Output Power	11b 11g VHT20 VHT40	2412 / 2437 / 2462 2412 / 2437 / 2462 2412 / 2437 / 2462 2422 / 2437 / 2452	1 Mbps 6 Mbps MCS 0 MCS 0	1
Maximum Output Power	VHT20 VHT40	2412 / 2437 / 2462 2422 / 2437 / 2452	MCS 0 MCS 0	3
Radiated Emissions >1GHz 6dB bandwidth Power spectral density	11b 11g VHT20 VHT40	2412 / 2437 / 2462 2412 / 2437 / 2462 2412 / 2437 / 2462 2422 / 2437 / 2452	1 Mbps 6 Mbps MCS 0 MCS 0	1

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **Z-plane** results were found as the worst case and were shown in this report.
2. The EUT had been tested by following test configurations.
 - 1) Configuration 1: Adapter mode, Non-Beamforming
 - 2) Configuration 2: POE mode, Non-Beamforming
 - 3) Configuration 3: Adapter mode, Beamforming

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

3.1.2 Test Procedures

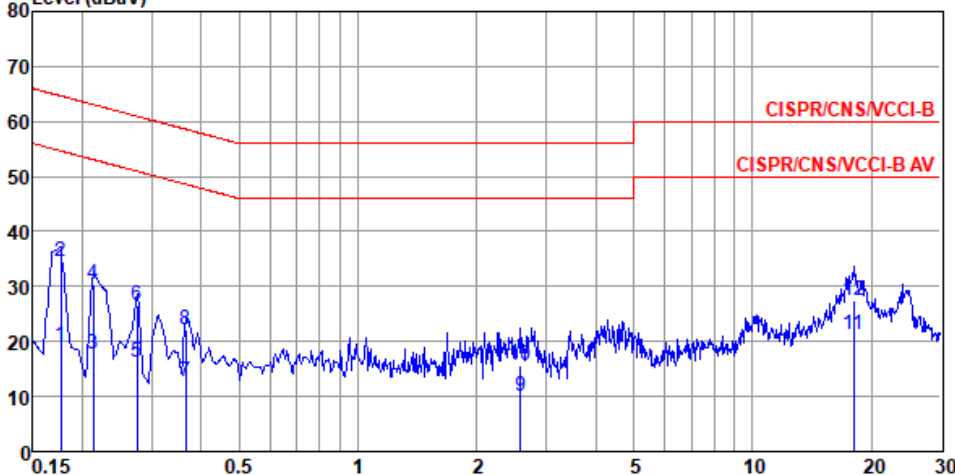
1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50 Ω LISN port.
3. AC conducted emission measurements is made over frequency range from 150 kHz to 30 MHz.
4. This measurement was performed with AC 120V / 60Hz.

3.1.3 Test Setup



- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

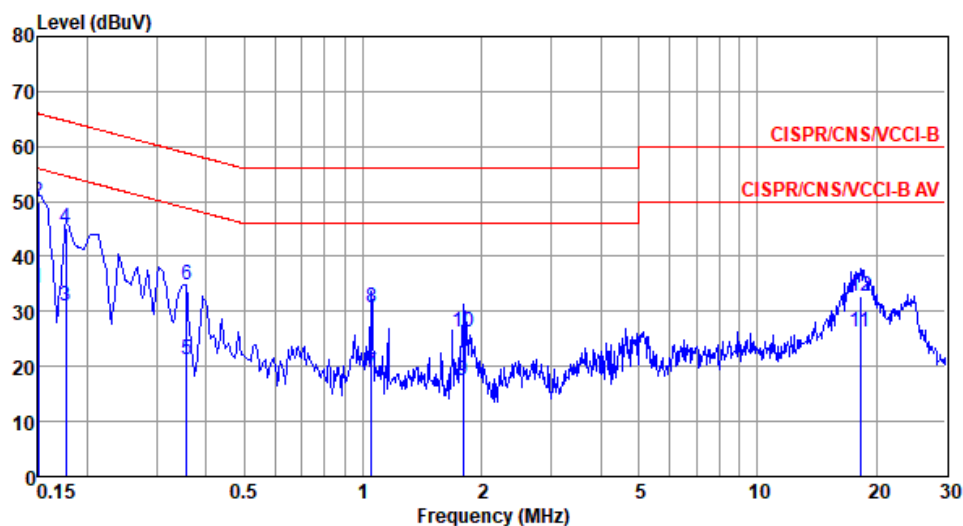
Modulation	11b	Test Freq. (MHz)	2437																																																																																																																					
Power Phase	Line	Test Configuration	1																																																																																																																					
Test by : Alex Tsai Temperature: 24°C Humidity: 60%																																																																																																																								
Level (dBuV)  Frequency (MHz) <table><thead><tr><th></th><th>Freq MHz</th><th>Level dBuV</th><th>Limit Line dBuV</th><th>Over Limit dB</th><th>Read Level dBuV</th><th>LISN factor dB</th><th>cable loss dB</th><th>Remark</th></tr></thead><tbody><tr><td>1</td><td>0.177</td><td>19.31</td><td>54.64</td><td>-35.33</td><td>9.44</td><td>9.63</td><td>0.06</td><td>Average</td></tr><tr><td>2</td><td>0.177</td><td>34.51</td><td>64.64</td><td>-30.13</td><td>24.64</td><td>9.63</td><td>0.06</td><td>QP</td></tr><tr><td>3</td><td>0.213</td><td>17.72</td><td>53.10</td><td>-35.38</td><td>7.84</td><td>9.63</td><td>0.06</td><td>Average</td></tr><tr><td>4</td><td>0.213</td><td>30.41</td><td>63.10</td><td>-32.69</td><td>20.53</td><td>9.63</td><td>0.06</td><td>QP</td></tr><tr><td>5</td><td>0.276</td><td>16.15</td><td>50.94</td><td>-34.79</td><td>6.23</td><td>9.63</td><td>0.07</td><td>Average</td></tr><tr><td>6</td><td>0.276</td><td>26.54</td><td>60.94</td><td>-34.40</td><td>16.62</td><td>9.63</td><td>0.07</td><td>QP</td></tr><tr><td>7</td><td>0.365</td><td>12.66</td><td>48.61</td><td>-35.95</td><td>2.71</td><td>9.63</td><td>0.08</td><td>Average</td></tr><tr><td>8</td><td>0.365</td><td>22.08</td><td>58.61</td><td>-36.53</td><td>12.13</td><td>9.63</td><td>0.08</td><td>QP</td></tr><tr><td>9</td><td>2.581</td><td>9.95</td><td>46.00</td><td>-36.05</td><td>-0.26</td><td>9.64</td><td>0.22</td><td>Average</td></tr><tr><td>10</td><td>2.581</td><td>15.56</td><td>56.00</td><td>-40.44</td><td>5.35</td><td>9.64</td><td>0.22</td><td>QP</td></tr><tr><td>11*</td><td>18.039</td><td>21.14</td><td>50.00</td><td>-28.86</td><td>10.22</td><td>9.72</td><td>0.64</td><td>Average</td></tr><tr><td>12</td><td>18.039</td><td>27.38</td><td>60.00</td><td>-32.62</td><td>16.46</td><td>9.72</td><td>0.64</td><td>QP</td></tr></tbody></table>					Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark	1	0.177	19.31	54.64	-35.33	9.44	9.63	0.06	Average	2	0.177	34.51	64.64	-30.13	24.64	9.63	0.06	QP	3	0.213	17.72	53.10	-35.38	7.84	9.63	0.06	Average	4	0.213	30.41	63.10	-32.69	20.53	9.63	0.06	QP	5	0.276	16.15	50.94	-34.79	6.23	9.63	0.07	Average	6	0.276	26.54	60.94	-34.40	16.62	9.63	0.07	QP	7	0.365	12.66	48.61	-35.95	2.71	9.63	0.08	Average	8	0.365	22.08	58.61	-36.53	12.13	9.63	0.08	QP	9	2.581	9.95	46.00	-36.05	-0.26	9.64	0.22	Average	10	2.581	15.56	56.00	-40.44	5.35	9.64	0.22	QP	11*	18.039	21.14	50.00	-28.86	10.22	9.72	0.64	Average	12	18.039	27.38	60.00	-32.62	16.46	9.72	0.64	QP
	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark																																																																																																																
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Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB). 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).																																																																																																																								

Modulation	11b	Test Freq. (MHz)	2437
Power Phase	Neutral	Test Configuration	1

Test by : Alex Tsai

Temperature: 24°C

Humidity: 60%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.150	34.11	56.00	-21.89	24.28	9.66	0.05	Average
2*	0.150	49.90	66.00	-16.10	40.07	9.66	0.05	QP
3	0.177	31.01	54.64	-23.63	21.16	9.65	0.06	Average
4	0.177	45.06	64.64	-19.58	35.21	9.65	0.06	QP
5	0.358	21.14	48.78	-27.64	11.24	9.65	0.08	Average
6	0.358	34.79	58.78	-23.99	24.89	9.65	0.08	QP
7	1.049	18.77	46.00	-27.23	8.80	9.65	0.12	Average
8	1.049	30.67	56.00	-25.33	20.70	9.65	0.12	QP
9	1.790	17.54	46.00	-28.46	7.46	9.66	0.17	Average
10	1.790	26.36	56.00	-29.64	16.28	9.66	0.17	QP
11	18.232	26.32	50.00	-23.68	15.38	9.83	0.64	Average
12	18.232	32.82	60.00	-27.18	21.88	9.83	0.64	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).

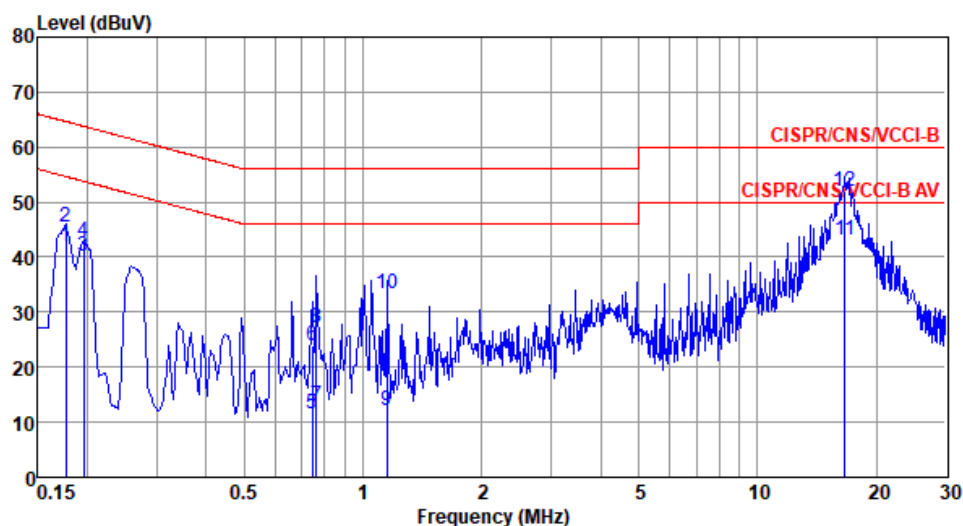
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	11b	Test Freq. (MHz)	2437
Power Phase	Line	Test Configuration	2

Test by : Alex Tsai

Temperature: 24°C

Humidity: 60%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.177	41.97	54.64	-12.67	32.10	9.63	0.06	Average
2	0.177	45.37	64.64	-19.27	35.50	9.63	0.06	QP
3	0.195	40.27	53.80	-13.53	30.39	9.63	0.06	Average
4	0.195	42.94	63.80	-20.86	33.06	9.63	0.06	QP
5	0.743	11.63	46.00	-34.37	1.59	9.63	0.11	Average
6	0.743	23.89	56.00	-32.11	13.85	9.63	0.11	QP
7	0.763	12.93	46.00	-33.07	2.89	9.63	0.11	Average
8	0.763	27.02	56.00	-28.98	16.98	9.63	0.11	QP
9	1.147	12.24	46.00	-33.76	2.16	9.63	0.13	Average
10	1.147	33.47	56.00	-22.53	23.39	9.63	0.13	QP
11*	16.661	43.17	50.00	-6.83	32.31	9.71	0.62	Average
12	16.661	51.98	60.00	-8.02	41.12	9.71	0.62	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).

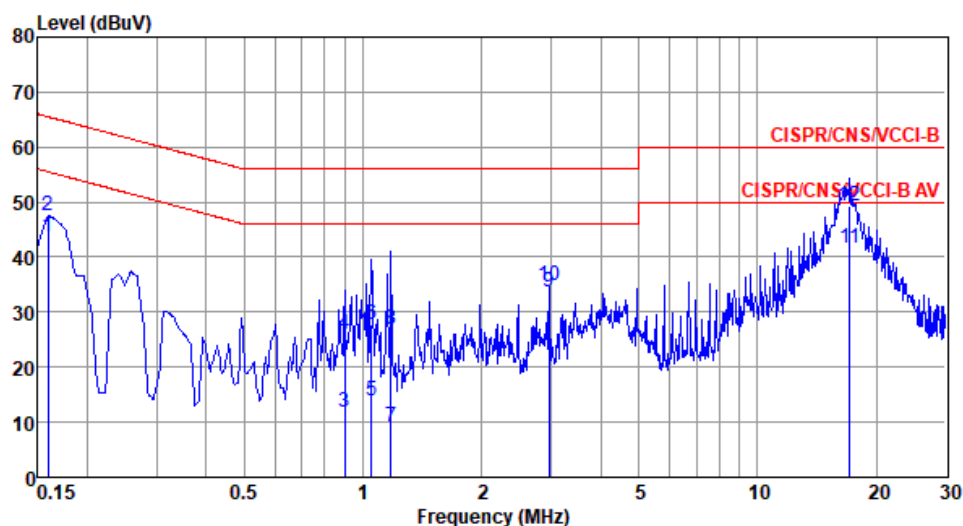
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

Modulation	11b	Test Freq. (MHz)	2437
Power Phase	Neutral	Test Configuration	2

Test by : Alex Tsai

Temperature: 24°C

Humidity: 60%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.159	43.59	55.52	-11.93	33.75	9.66	0.05	Average
2	0.159	47.41	65.52	-18.11	37.57	9.66	0.05	QP
3	0.899	11.74	46.00	-34.26	1.77	9.65	0.12	Average
4	0.899	26.12	56.00	-29.88	16.15	9.65	0.12	QP
5	1.049	13.96	46.00	-32.04	3.99	9.65	0.12	Average
6	1.049	27.66	56.00	-28.34	17.69	9.65	0.12	QP
7	1.178	9.11	46.00	-36.89	-0.88	9.65	0.13	Average
8	1.178	26.95	56.00	-29.05	16.96	9.65	0.13	QP
9	2.962	33.58	46.00	-12.42	23.41	9.67	0.24	Average
10	2.962	34.97	56.00	-21.03	24.80	9.67	0.24	QP
11*	17.109	41.51	50.00	-8.49	30.62	9.82	0.63	Average
12	17.109	49.41	60.00	-10.59	38.52	9.82	0.63	QP

Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).

2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

3.2 6dB and Occupied Bandwidth

3.2.1 Limit of 6dB Bandwidth

The minimum 6dB bandwidth shall be at least 500 kHz.

3.2.2 Test Procedures

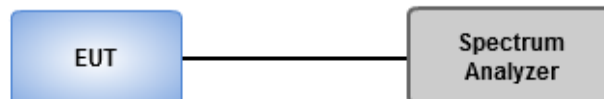
6dB Bandwidth

1. Set resolution bandwidth (RBW) = 100 kHz, Video bandwidth = 300 kHz.
2. Detector = Peak, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.

Occupied Bandwidth

1. Set resolution bandwidth (RBW) = 1% ~ 5 % of OBW, Video bandwidth = 3 x RBW
2. Detector = Sample, Trace mode = max hold.
3. Sweep = auto couple, Allow the trace to stabilize.
4. Use the OBW measurement function of spectrum analyzer to measure the occupied bandwidth.

3.2.3 Test Setup



3.2.4 Test Result of 6dB and Occupied Bandwidth

Ambient Condition	25°C / 67%	Tested By	Aska Huang
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Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	9.13M	14.761M	14M8G1D	8.043M	12.88M
802.11g_Nss1,(6Mbps)_2TX	16.377M	23.589M	23M6D1D	16.304M	16.353M
802.11ac VHT20_Nss1,(MCS0)_2TX	17.826M	18.524M	18M5D1D	17.536M	17.583M
802.11ac VHT40_Nss1,(MCS0)_2TX	35.507M	35.89M	35M9D1D	32.899M	35.745M

Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;

Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

Result

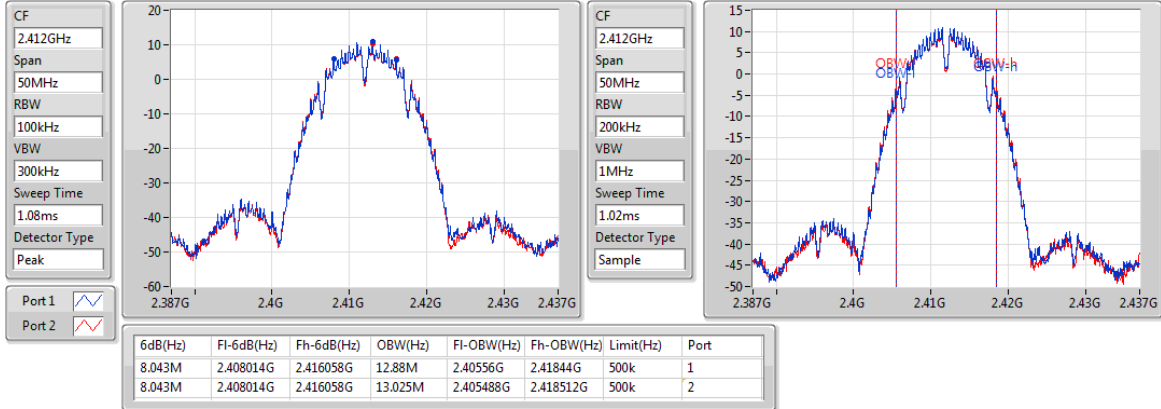
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.043M	12.88M	8.043M	13.025M
2437MHz	Pass	500k	9.13M	14.761M	9.058M	14.11M
2462MHz	Pass	500k	8.116M	12.88M	8.116M	12.952M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.377M	16.353M	16.377M	16.425M
2437MHz	Pass	500k	16.377M	23.589M	16.304M	19.899M
2462MHz	Pass	500k	16.377M	16.425M	16.377M	16.425M
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.609M	17.583M	17.536M	17.583M
2437MHz	Pass	500k	17.536M	18.524M	17.826M	17.945M
2462MHz	Pass	500k	17.536M	17.583M	17.536M	17.583M
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35.072M	35.89M	35.072M	35.745M
2437MHz	Pass	500k	35.507M	35.89M	34.058M	35.89M
2452MHz	Pass	500k	35.507M	35.89M	32.899M	35.745M

Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX

EBW

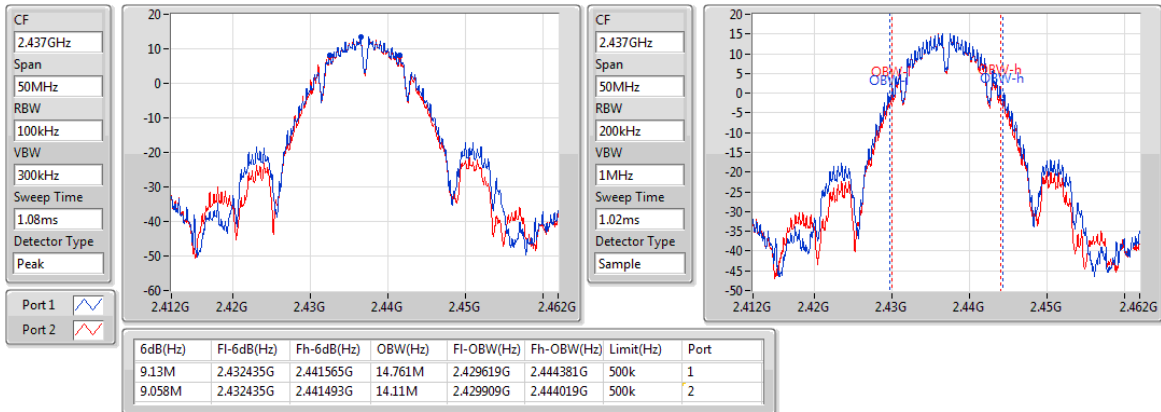
2412MHz



802.11b_Nss1,(1Mbps)_2TX

EBW

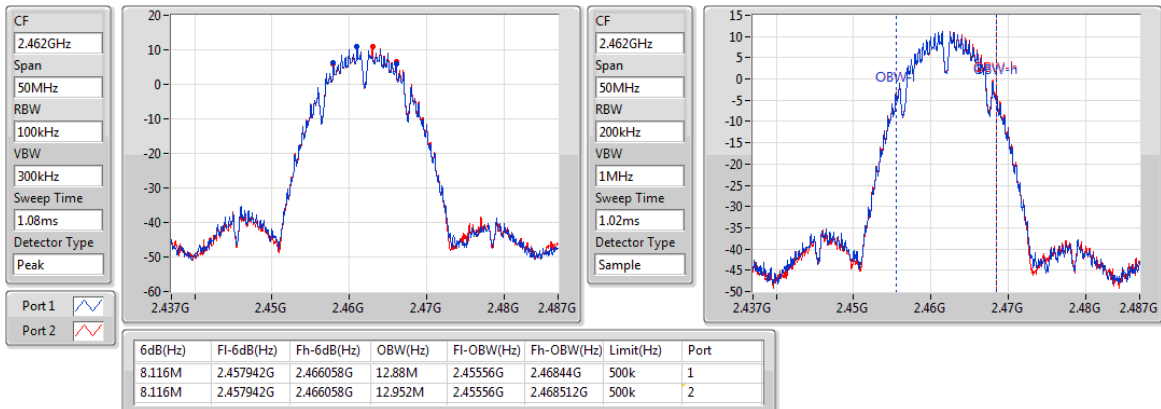
2437MHz



802.11b_Nss1,(1Mbps)_2TX

EBW

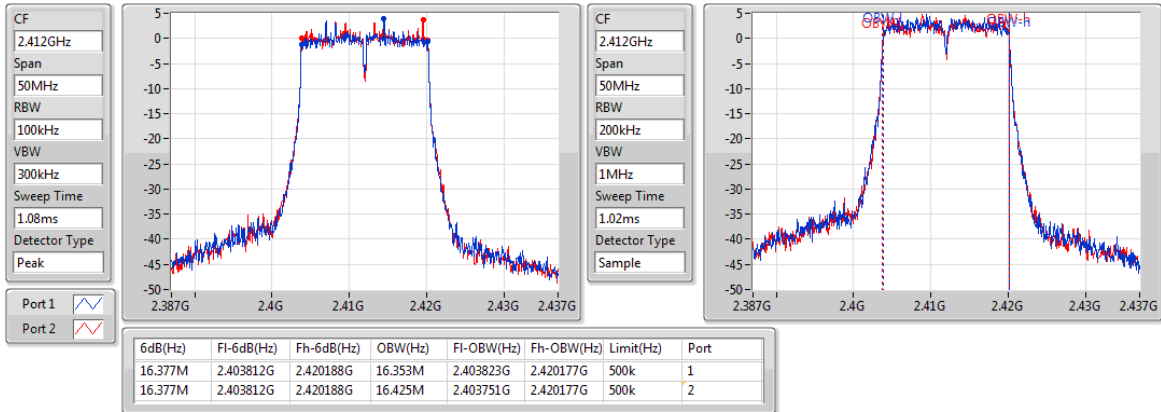
2462MHz



802.11g_Nss1,(6Mbps)_2TX

EBW

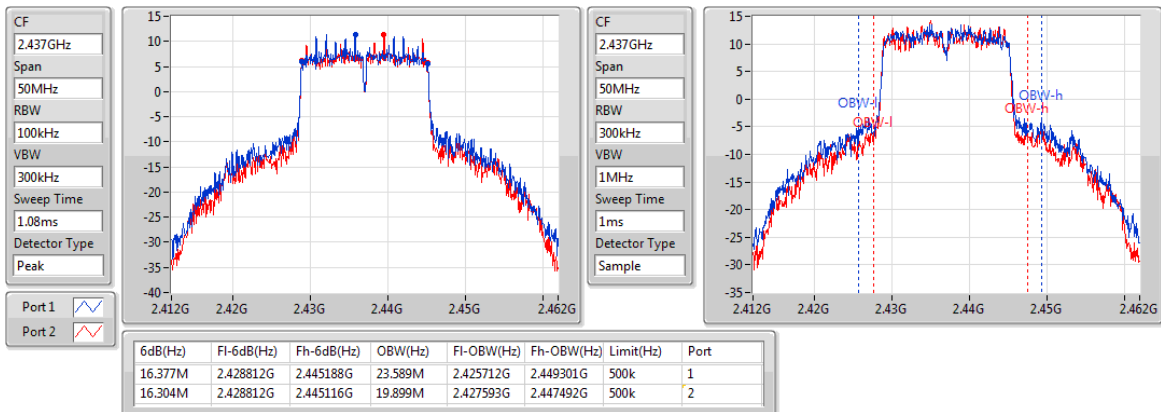
2412MHz



802.11g_Nss1,(6Mbps)_2TX

EBW

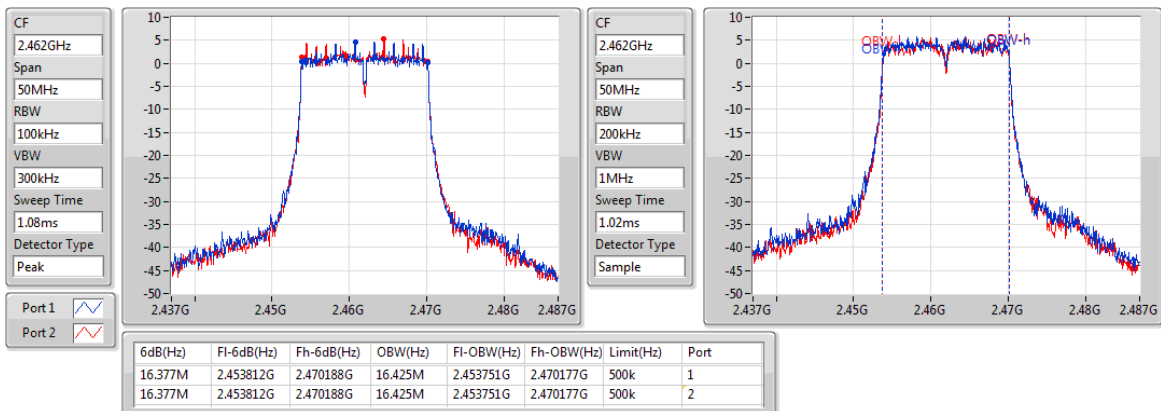
2437MHz



802.11g_Nss1,(6Mbps)_2TX

EBW

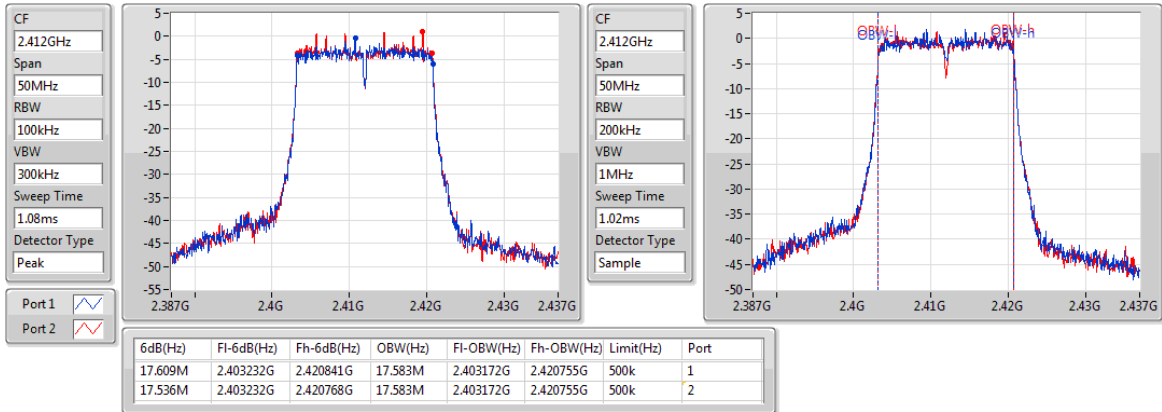
2462MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

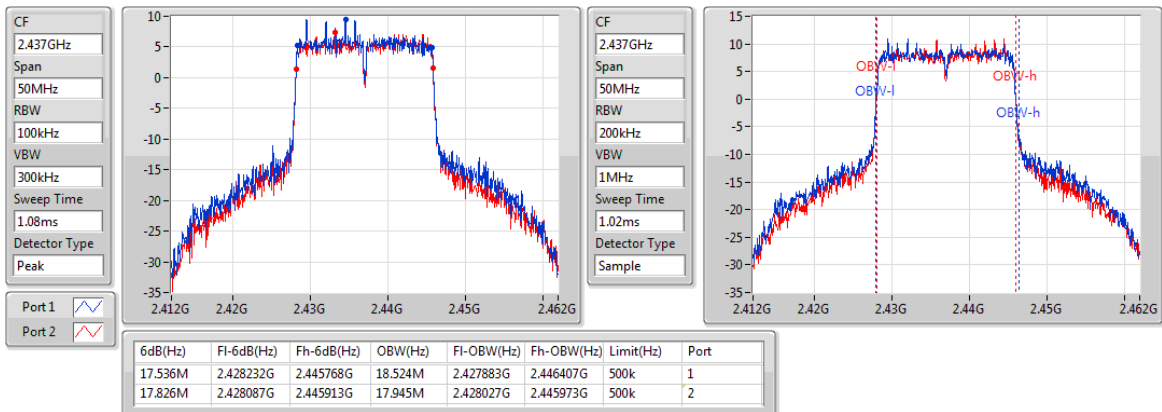
2412MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

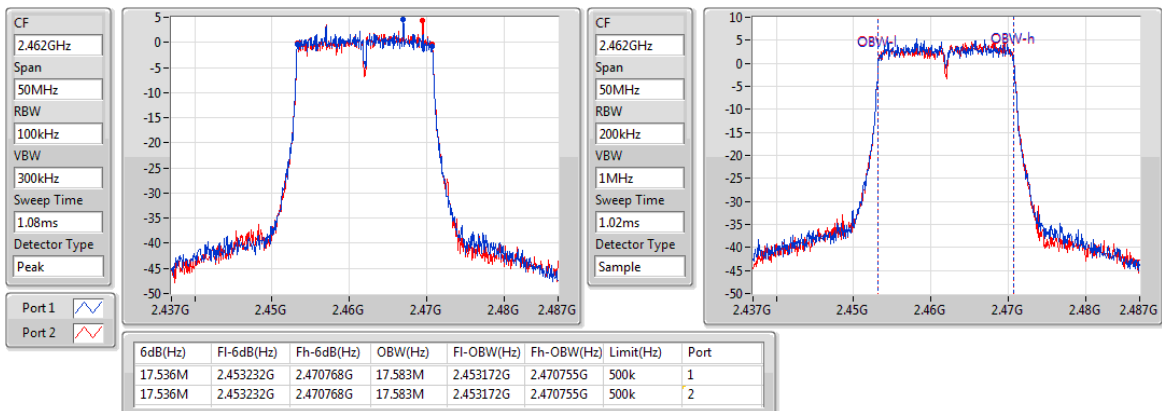
2437MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

EBW

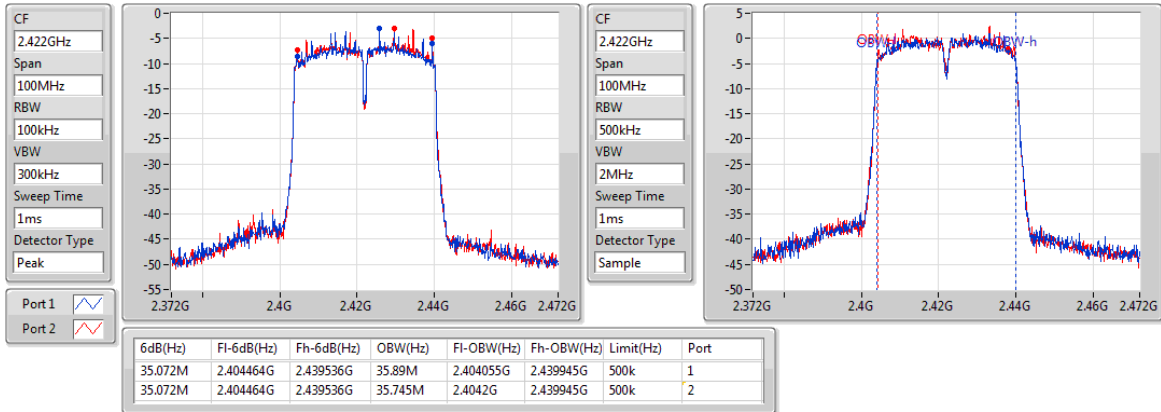
2462MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

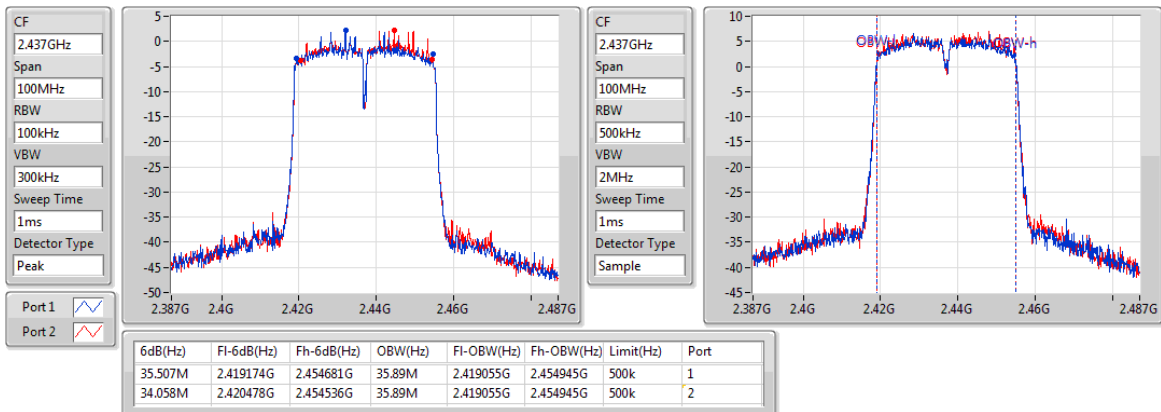
2422MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

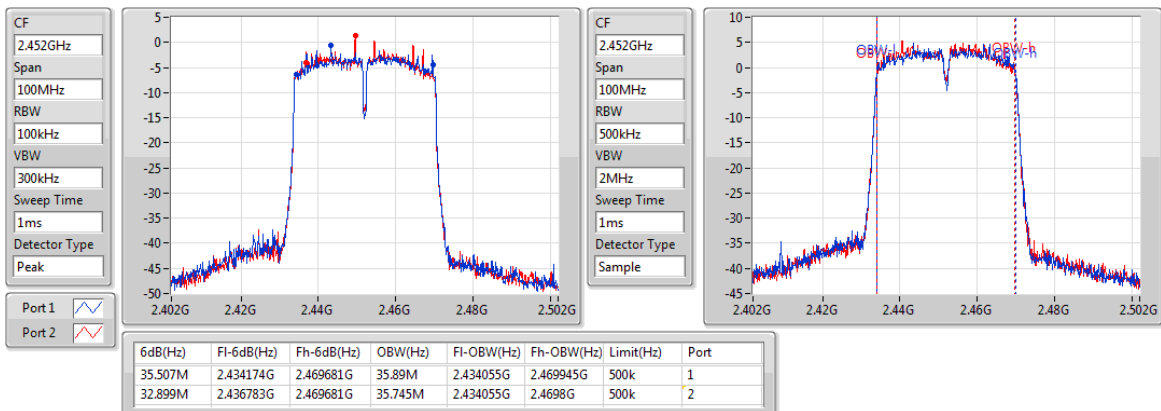
2437MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

EBW

2452MHz



3.3 RF Output Power

3.3.1 Limit of RF Output Power

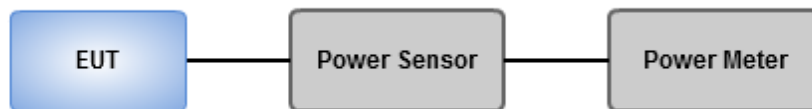
Conducted power shall not exceed 1Watt.

Antenna gain $\leq 6\text{dBi}$, no any corresponding reduction is in output power limit.

3.3.2 Test Procedures

A broadband RF power meter is used for output power measurement. The video bandwidth of power meter is greater than DTS bandwidth of EUT. If duty cycle of test signal is not 100 %, trigger and gating function of power meter will be enabled to capture transmission burst for measuring output power.

3.3.3 Test Setup



3.3.4 Test Result of Maximum Output Power

Ambient Condition	25°C / 67%	Tested By	Aska Huang
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Non-beamforming mode

Summary of Conducted (Average) Output Power

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	26.68	0.46559
802.11g_Nss1,(6Mbps)_2TX	25.54	0.35810
802.11ac VHT20_Nss1,(MCS0)_2TX	24.76	0.29923
802.11ac VHT40_Nss1,(MCS0)_2TX	19.59	0.09099

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	0.00	19.61	19.47	22.55	30.00	22.55	36.00
2437MHz	Pass	0.00	23.71	23.62	26.68	30.00	26.68	36.00
2462MHz	Pass	0.00	19.68	19.53	22.62	30.00	22.62	36.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	0.00	15.67	15.95	18.82	30.00	18.82	36.00
2437MHz	Pass	0.00	22.59	22.46	25.54	30.00	25.54	36.00
2462MHz	Pass	0.00	16.95	17.03	20.00	30.00	20.00	36.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	0.00	12.68	12.61	15.66	30.00	15.66	36.00
2437MHz	Pass	0.00	21.77	21.73	24.76	30.00	24.76	36.00
2462MHz	Pass	0.00	16.62	16.58	19.61	30.00	19.61	36.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2422MHz	Pass	0.00	11.02	11.25	14.15	30.00	14.15	36.00
2437MHz	Pass	0.00	16.62	16.53	19.59	30.00	19.59	36.00
2452MHz	Pass	0.00	14.62	14.51	17.58	30.00	17.58	36.00

DG = Directional Gain; **Port X** = Port X output power

Beamforming mode

Summary of Conducted (Average) Output Power

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	21.75	0.14962
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	16.58	0.04550

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ac VHT20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.01	9.67	9.60	12.65	30.00	15.66	36.00
2437MHz	Pass	3.01	18.76	18.72	21.75	30.00	24.76	36.00
2462MHz	Pass	3.01	13.61	13.57	16.60	30.00	19.61	36.00
802.11ac VHT40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2422MHz	Pass	3.01	8.01	8.24	11.14	30.00	14.15	36.00
2437MHz	Pass	3.01	13.61	13.52	16.58	30.00	19.59	36.00
2452MHz	Pass	3.01	11.61	11.50	14.57	30.00	17.58	36.00

DG = Directional Gain; Port X = Port X output power

3.4 Power Spectral Density

3.4.1 Limit of Power Spectral Density

Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

3.4.2 Test Procedures

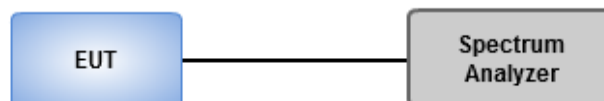
Average PSD, duty cycle $\geq 98\%$

1. Set the RBW = 30 kHz, VBW = 100 kHz.
2. Detector = RMS, Sweep time = auto couple.
3. Sweep time = auto couple.
4. Employ trace averaging (RMS) mode over a minimum of 100 traces.
5. Use the peak marker function to determine the maximum amplitude level.

Average PSD, duty cycle $< 98\%$

1. Set the RBW = 30 kHz, VBW = 100 kHz. Detector = RMS.
2. Set the sweep time to: ≥ 10 (number of measurement points in sweep) $\times$ (total on/off period of the transmitted signal).
3. Perform the measurement over a single sweep.
4. Use the peak marker function to determine the maximum amplitude level.
5. Add $10 \log (1/x)$, where x is the duty cycle.

3.4.3 Test Setup



3.4.4 Test Result of Power Spectral Density

Ambient Condition	25°C / 67%	Tested By	Aska Huang
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Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	4.54
802.11g_Nss1,(6Mbps)_2TX	0.76
802.11ac VHT20_Nss1,(MCS0)_2TX	-0.46
802.11ac VHT40_Nss1,(MCS0)_2TX	-8.29

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW W)	Port 2 (dBm/RBW W)	PD (dBm/RBW W)	PD Limit (dBm/RBW W)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.01	-2.07	-2.48	0.31	8.00
2437MHz	Pass	3.01	1.40	1.80	4.54	8.00
2462MHz	Pass	3.01	-2.18	-1.96	0.68	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.01	-9.55	-8.75	-6.12	8.00
2437MHz	Pass	3.01	-2.37	-2.13	0.76	8.00
2462MHz	Pass	3.01	-8.31	-7.66	-4.96	8.00
802.11ac VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.01	-11.75	-11.77	-9.06	8.00
2437MHz	Pass	3.01	-2.61	-3.18	-0.46	8.00
2462MHz	Pass	3.01	-8.16	-7.77	-5.37	8.00
802.11ac VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.01	-16.81	-15.79	-13.42	8.00
2437MHz	Pass	3.01	-11.28	-10.56	-8.29	8.00
2452MHz	Pass	3.01	-13.14	-12.79	-10.10	8.00

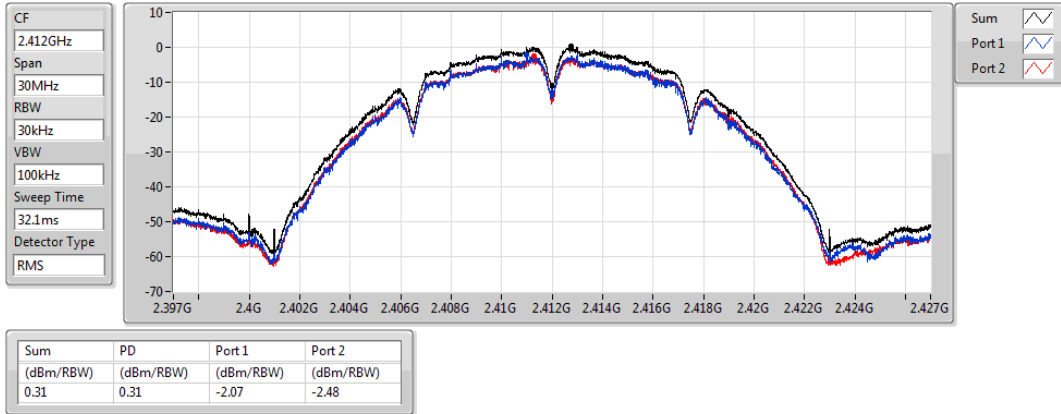
DG = Directional Gain;

PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_2TX

PSD

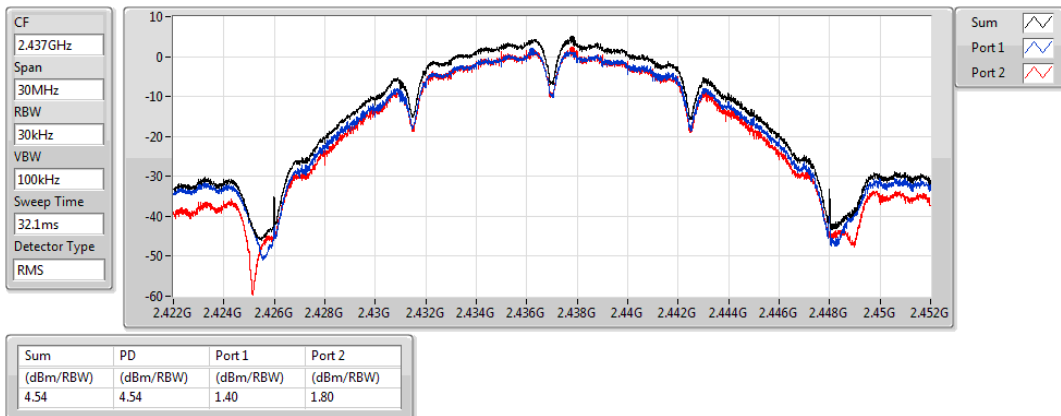
2412MHz



802.11b_Nss1,(1Mbps)_2TX

PSD

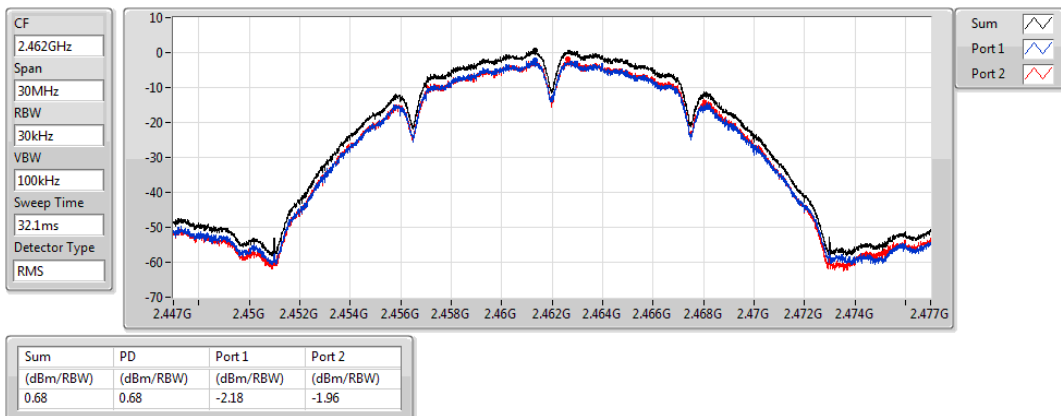
2437MHz



802.11b_Nss1,(1Mbps)_2TX

PSD

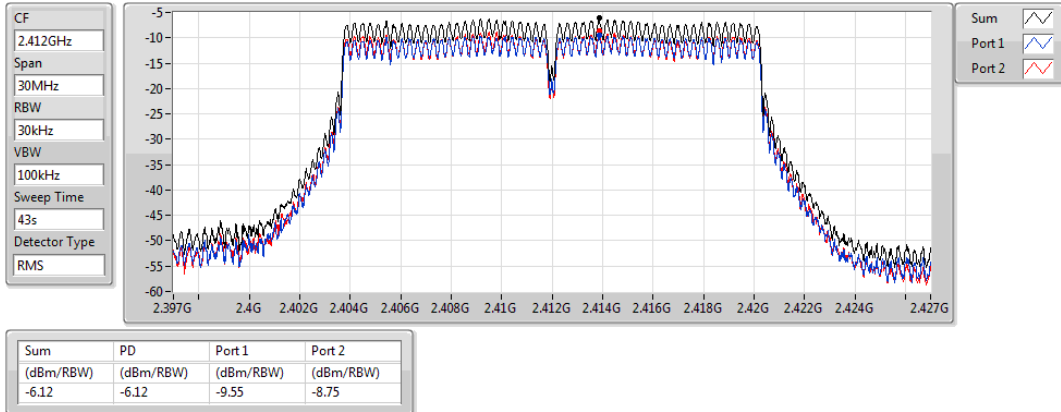
2462MHz



802.11g_Nss1,(6Mbps)_2TX

PSD

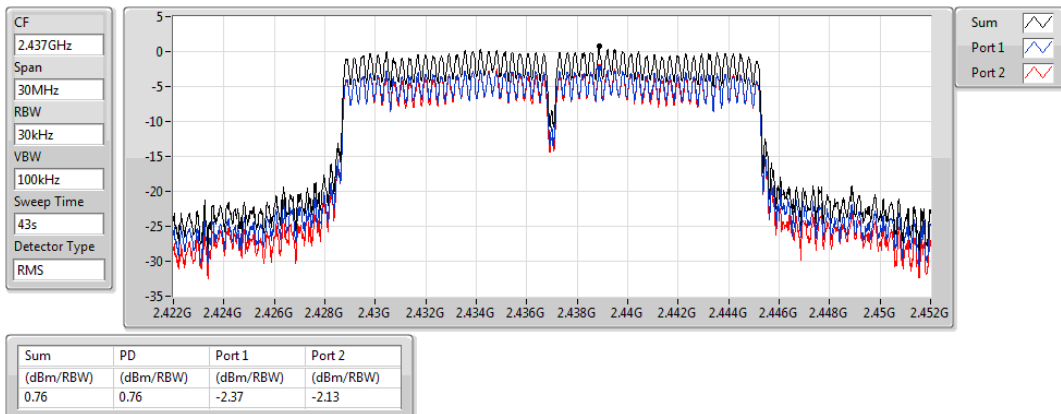
2412MHz



802.11g_Nss1,(6Mbps)_2TX

PSD

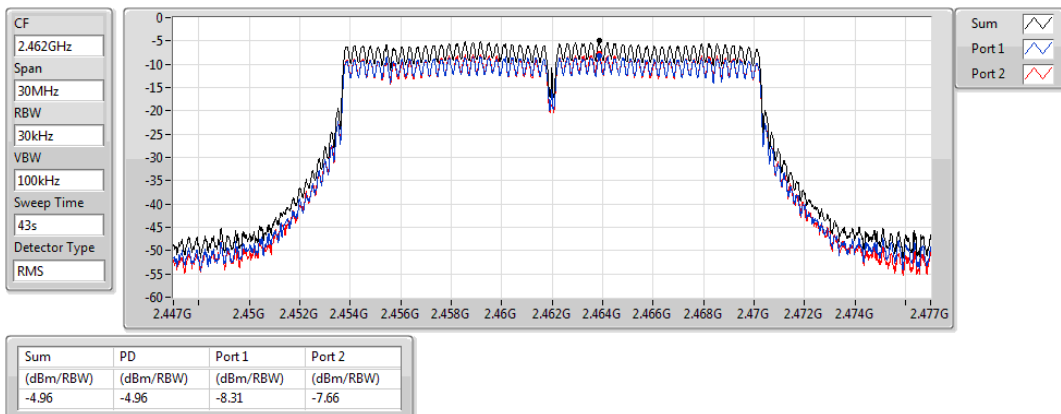
2437MHz



802.11g_Nss1,(6Mbps)_2TX

PSD

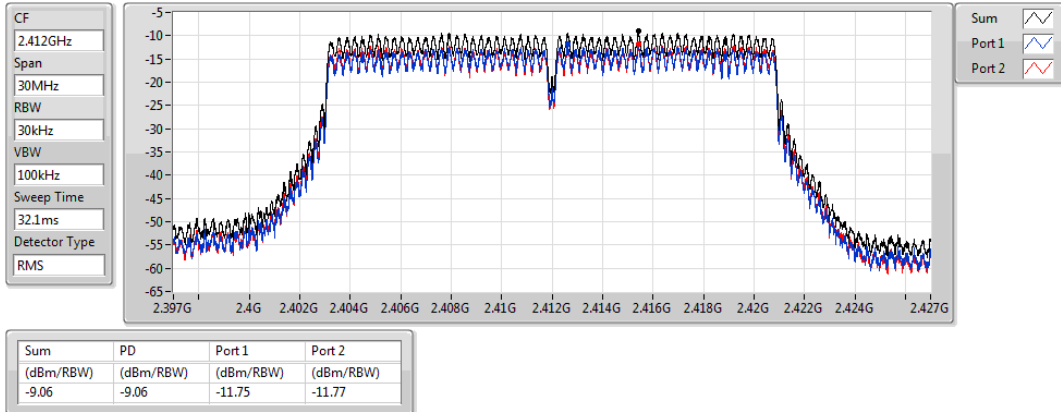
2462MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

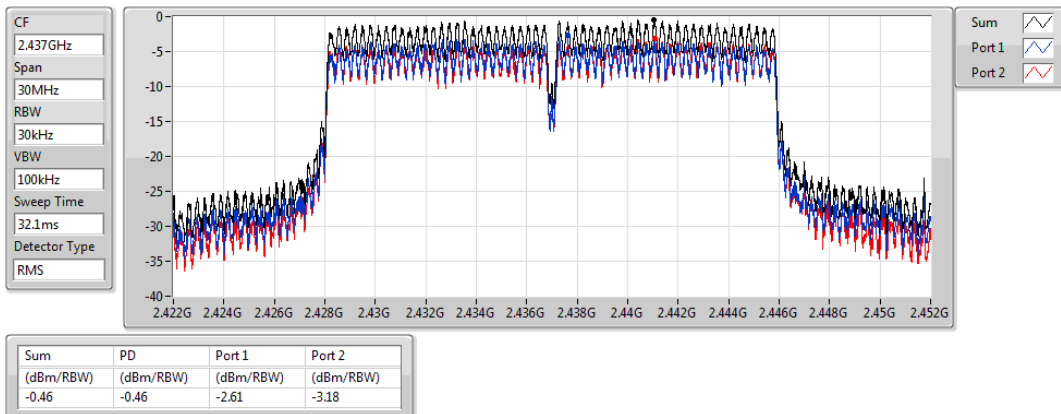
2412MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

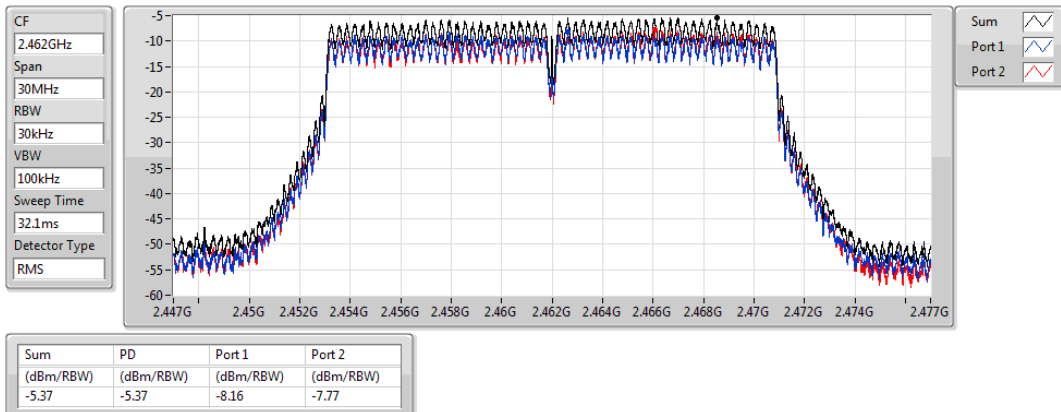
2437MHz



802.11ac VHT20_Nss1,(MCS0)_2TX

PSD

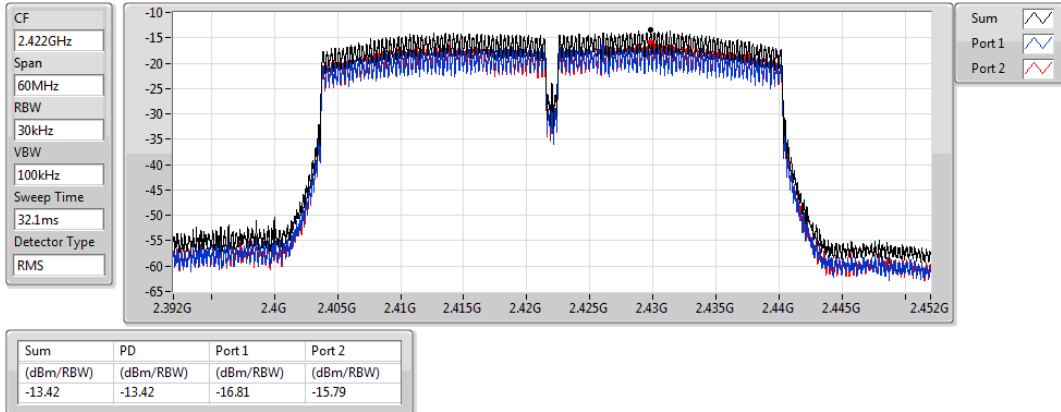
2462MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

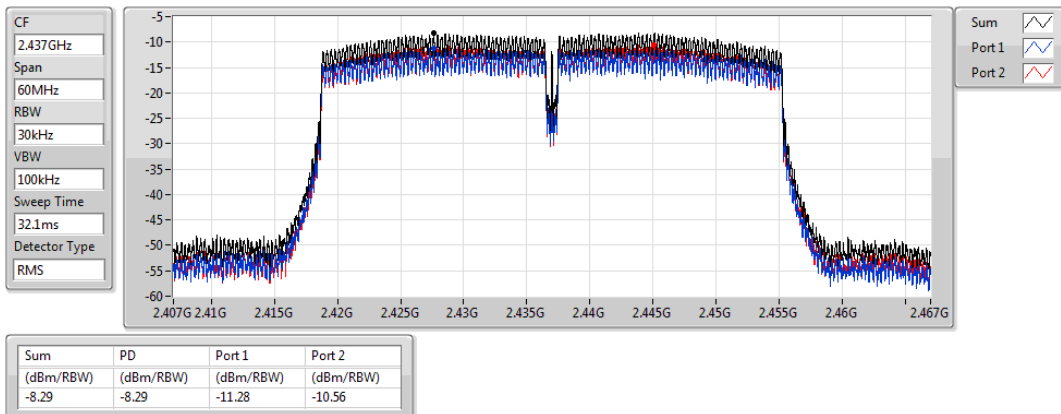
2422MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

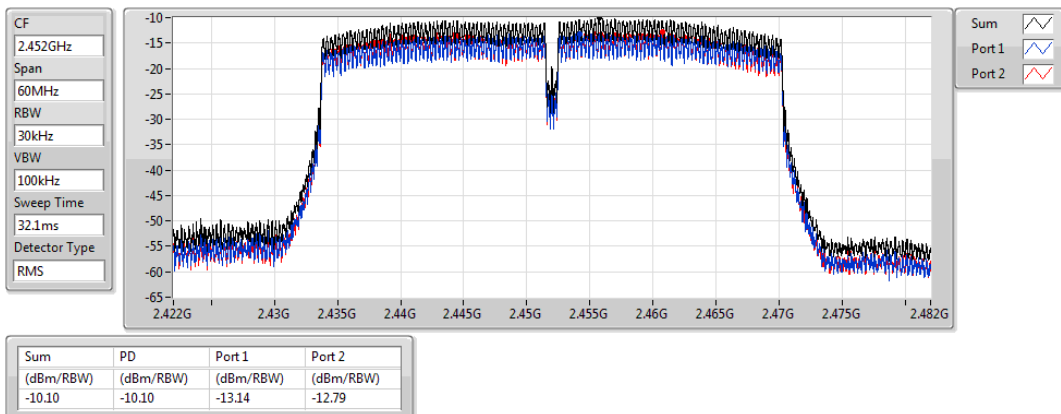
2437MHz



802.11ac VHT40_Nss1,(MCS0)_2TX

PSD

2452MHz



3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

Restricted Band Emissions Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1:
Quasi-Peak value is measured for frequency below 1GHz except for 9–90 kHz, 110–490 kHz frequency band. Peak and average value are measured for frequency above 1GHz. The limit on average radio frequency emission is as above table. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit

Note 2:
Measurements may be performed at a distance other than what is specified provided. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor as below, Frequency at or above 30 MHz: 20 dB/decade Frequency below 30 MHz: 40 dB/decade.

3.5.2 Test Procedures

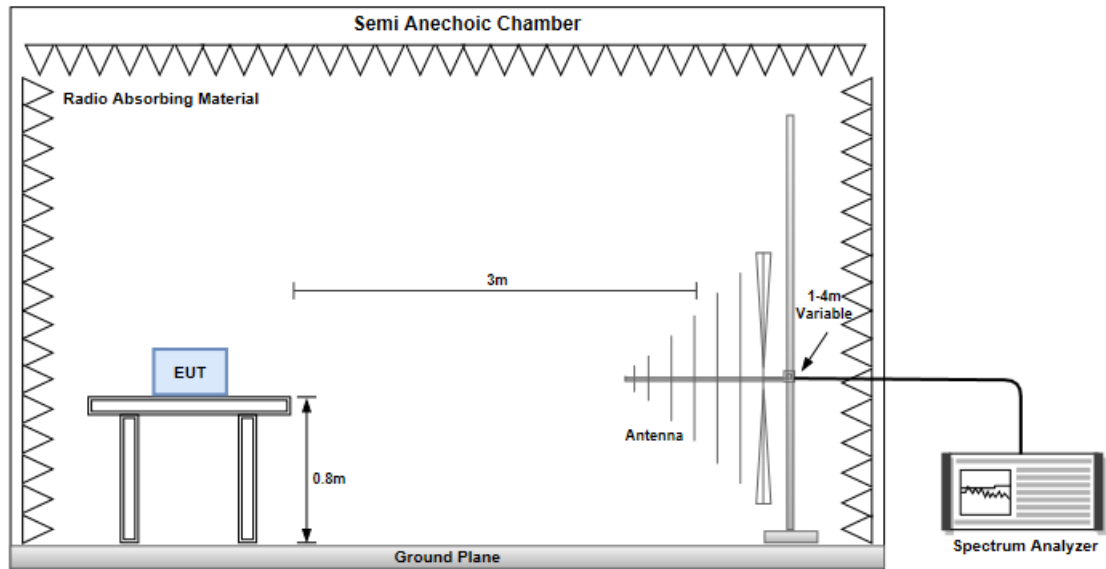
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.

Note:

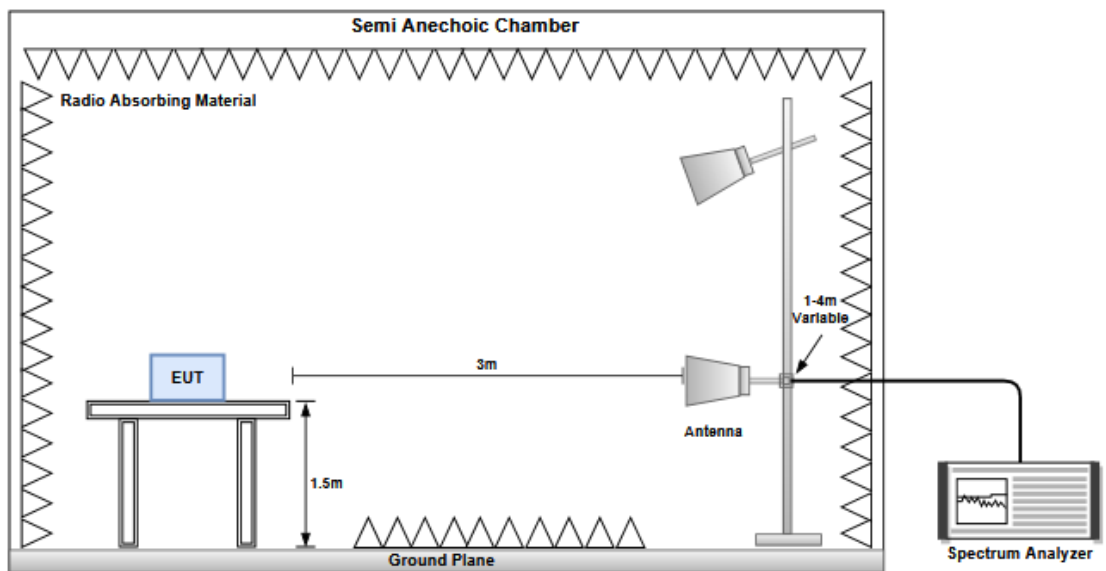
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above 1GHz.

3.5.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz

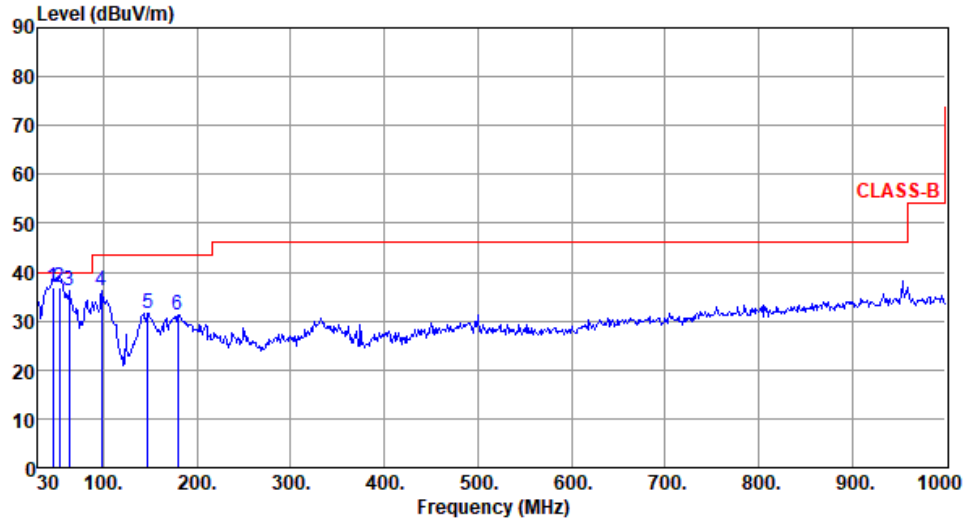


3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11b	Test Freq. (MHz)	2437																																																																						
Polarization	Horizontal	Test Configuration	1																																																																						
Test By :Akun Chung Temperature(°C):23 Humidity(%):68																																																																									
Level (dBuV/m) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>107.60</td><td>29.82</td><td>43.50</td><td>-13.68</td><td>41.82</td><td>-12.00</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>2</td><td>124.09</td><td>31.53</td><td>43.50</td><td>-11.97</td><td>41.73</td><td>-10.20</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>3</td><td>156.10</td><td>31.08</td><td>43.50</td><td>-12.42</td><td>39.73</td><td>-8.65</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>4</td><td>173.56</td><td>32.59</td><td>43.50</td><td>-10.91</td><td>42.01</td><td>-9.42</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>5</td><td>191.99</td><td>31.51</td><td>43.50</td><td>-11.99</td><td>43.00</td><td>-11.49</td><td>Peak</td><td>---</td><td>---</td></tr><tr><td>6</td><td>286.08</td><td>32.03</td><td>46.00</td><td>-13.97</td><td>40.45</td><td>-8.42</td><td>Peak</td><td>---</td><td>---</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	107.60	29.82	43.50	-13.68	41.82	-12.00	Peak	---	---	2	124.09	31.53	43.50	-11.97	41.73	-10.20	Peak	---	---	3	156.10	31.08	43.50	-12.42	39.73	-8.65	Peak	---	---	4	173.56	32.59	43.50	-10.91	42.01	-9.42	Peak	---	---	5	191.99	31.51	43.50	-11.99	43.00	-11.49	Peak	---	---	6	286.08	32.03	46.00	-13.97	40.45	-8.42	Peak	---	---
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																
1	107.60	29.82	43.50	-13.68	41.82	-12.00	Peak	---	---																																																																
2	124.09	31.53	43.50	-11.97	41.73	-10.20	Peak	---	---																																																																
3	156.10	31.08	43.50	-12.42	39.73	-8.65	Peak	---	---																																																																
4	173.56	32.59	43.50	-10.91	42.01	-9.42	Peak	---	---																																																																
5	191.99	31.51	43.50	-11.99	43.00	-11.49	Peak	---	---																																																																
6	286.08	32.03	46.00	-13.97	40.45	-8.42	Peak	---	---																																																																
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB) *Factor includes antenna factor , cable loss and amplifier gain Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m). Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.																																																																									

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1

Test By :Akun Chung Temperature(°C):23 Humidity(%):68



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	45.52	36.89	40.00	-3.11	44.92	-8.03	QP	100	137
2	53.28	36.88	40.00	-3.12	45.24	-8.36	QP	104	135
3	62.98	36.07	40.00	-3.93	45.35	-9.28	Peak	---	---
4	97.90	36.29	43.50	-7.21	49.83	-13.54	Peak	---	---
5	147.37	31.58	43.50	-11.92	40.25	-8.67	Peak	---	---
6	179.38	31.38	43.50	-12.12	41.47	-10.09	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

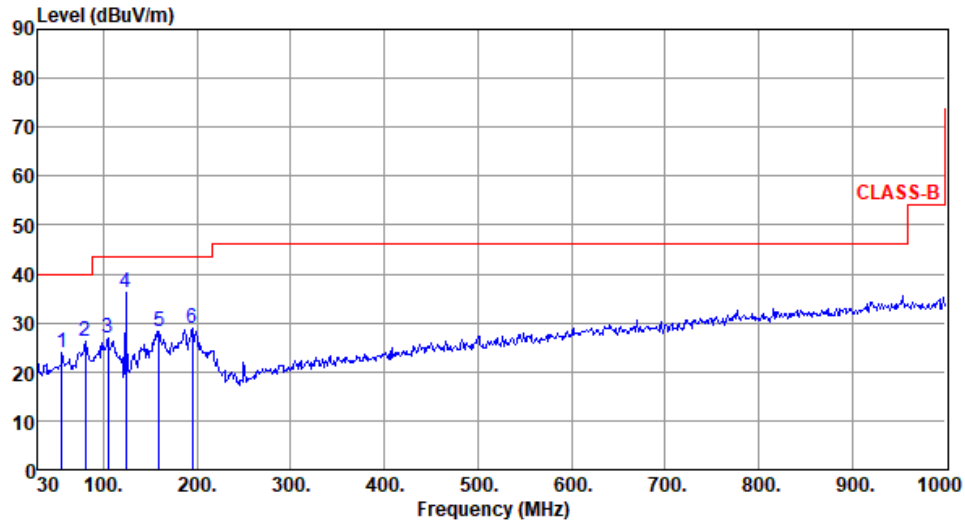
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	2

Test By :Akun Chung Temperature(°C):23 Humidity(%):68



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	55.22	23.85	40.00	-16.15	32.43	-8.58	Peak	---	---
2	80.44	26.11	40.00	-13.89	39.21	-13.10	Peak	---	---
3	104.69	27.02	43.50	-16.48	39.29	-12.27	Peak	---	---
4	124.09	36.30	43.50	-7.20	46.50	-10.20	Peak	---	---
5	159.01	28.38	43.50	-15.12	37.02	-8.64	Peak	---	---
6	194.90	28.85	43.50	-14.65	40.44	-11.59	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

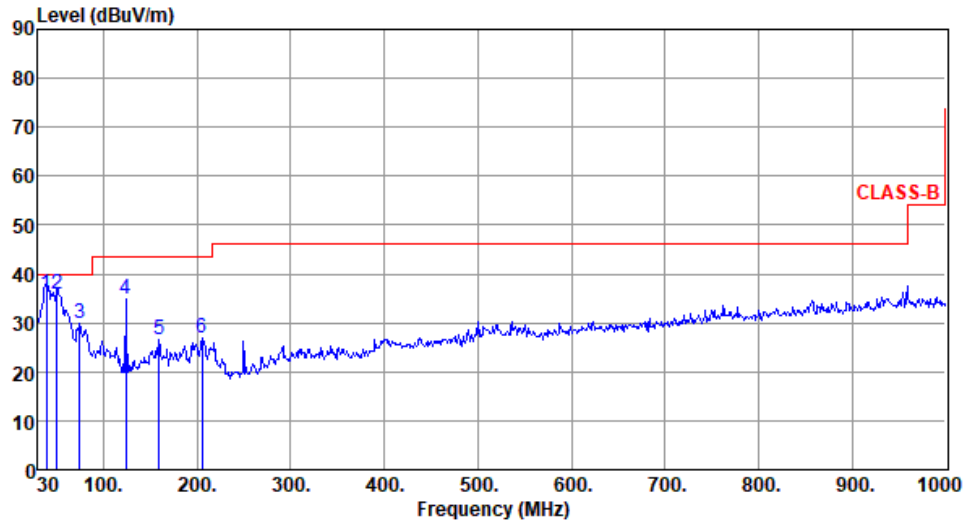
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	2

Test By :Akun Chung Temperature(°C):23 Humidity(%):68



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	38.73	35.83	40.00	-4.17	44.33	-8.50	QP	100	86
2	50.37	35.86	40.00	-4.14	44.00	-8.14	QP	100	90
3	74.62	29.75	40.00	-10.25	41.44	-11.69	Peak	---	---
4	124.09	34.79	43.50	-8.71	44.99	-10.20	Peak	---	---
5	159.01	26.61	43.50	-16.89	35.25	-8.64	Peak	---	---
6	205.57	26.96	43.50	-16.54	38.76	-11.80	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

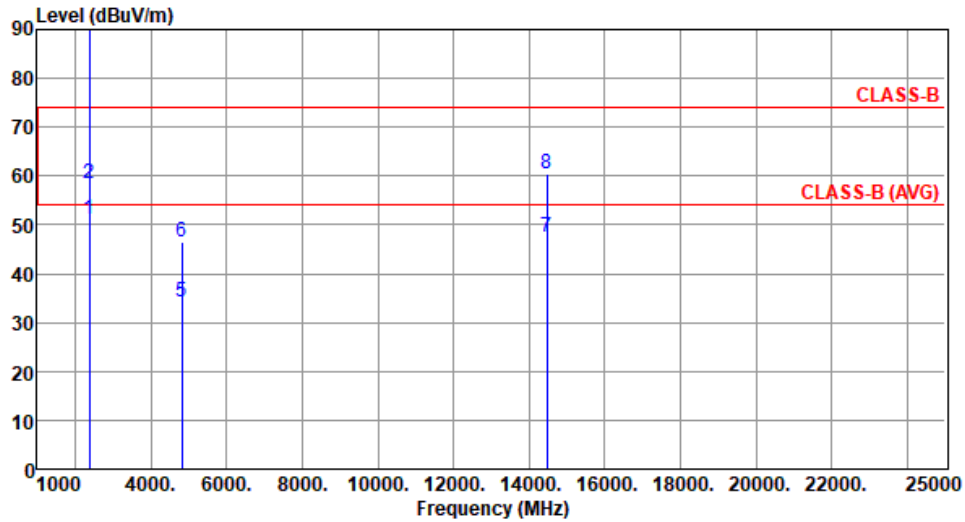
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1
Test By :Akun Chung Temperature(°C):23 Humidity(%):62			
Level (dBUV/m)			

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	1

Test By :Akun Chung Temperature(°C):23 Humidity(%):62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	51.00	54.00	-3.00	53.80	-2.80	Average	348	270
2	2390.00	58.50	74.00	-15.50	61.30	-2.80	Peak	348	270
3 *	2412.00	107.79			110.69	-2.90	Average	381	268
4 *	2412.00	110.01			112.91	-2.90	Peak	381	268
5	4824.00	34.28	54.00	-19.72	30.68	3.60	Average	100	144
6	4824.00	46.46	74.00	-27.54	42.86	3.60	Peak	100	144
7	14472.00	47.39	54.00	-6.61	29.49	17.90	Average	100	52
8	14472.00	60.38	74.00	-13.62	42.48	17.90	Peak	100	52

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

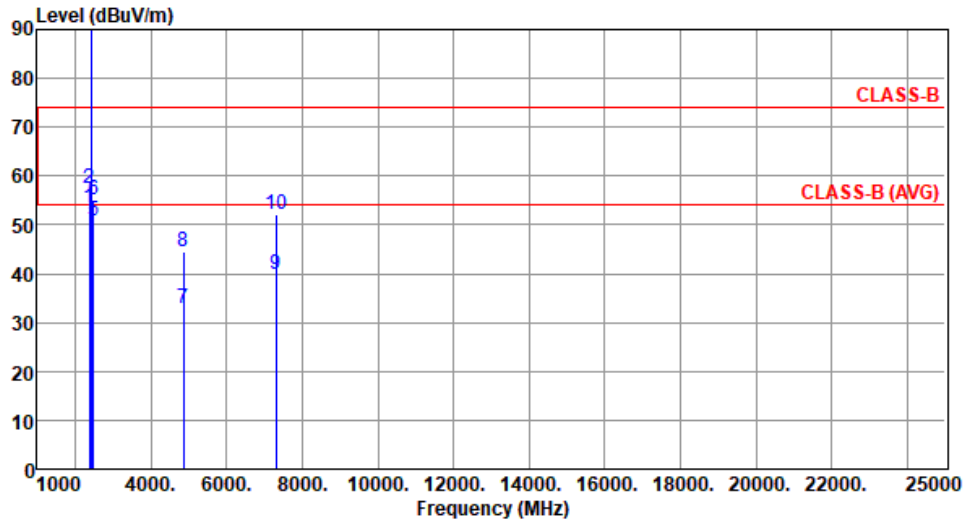
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1

Test By :Roger Lu Temperature(°C):23 Humidity(%):62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	53.41	54.00	-0.59	56.21	-2.80	Average	150	156
2	2390.00	57.58	74.00	-16.42	60.38	-2.80	Peak	150	156
3 *	2437.00	111.97			114.98	-3.01	Average	171	148
4 *	2437.00	113.75			116.76	-3.01	Peak	171	148
5	2483.50	50.86	54.00	-3.14	53.89	-3.03	Average	166	156
6	2483.50	55.09	74.00	-18.91	58.12	-3.03	Peak	166	156
7	4874.00	32.88	54.00	-21.12	29.24	3.64	Average	147	20
8	4874.00	44.48	74.00	-29.52	40.84	3.64	Peak	147	20
9	7311.00	39.74	54.00	-14.26	30.47	9.27	Average	132	2
10	7311.00	52.01	74.00	-21.99	42.74	9.27	Peak	132	2

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

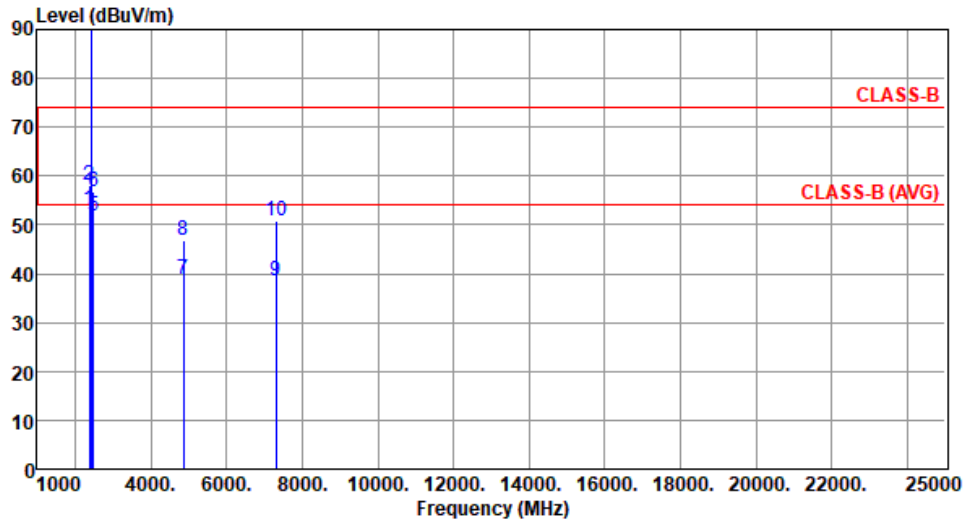
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1

Test By :Roger Lu Temperature(°C):23 Humidity(%):62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	53.18	54.00	-0.82	55.98	-2.80	Average	229	87
2	2390.00	58.07	74.00	-15.93	60.87	-2.80	Peak	229	87
3 *	2437.00	111.42			114.43	-3.01	Average	229	91
4 *	2437.00	113.92			116.93	-3.01	Peak	229	91
5	2483.50	51.86	54.00	-2.14	54.89	-3.03	Average	263	300
6	2483.50	56.83	74.00	-17.17	59.86	-3.03	Peak	263	300
7	4874.00	38.84	54.00	-15.16	35.20	3.64	Average	136	147
8	4874.00	46.95	74.00	-27.05	43.31	3.64	Peak	136	147
9	7311.00	38.51	54.00	-15.49	29.24	9.27	Average	100	40
10	7311.00	50.85	74.00	-23.15	41.58	9.27	Peak	100	40

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

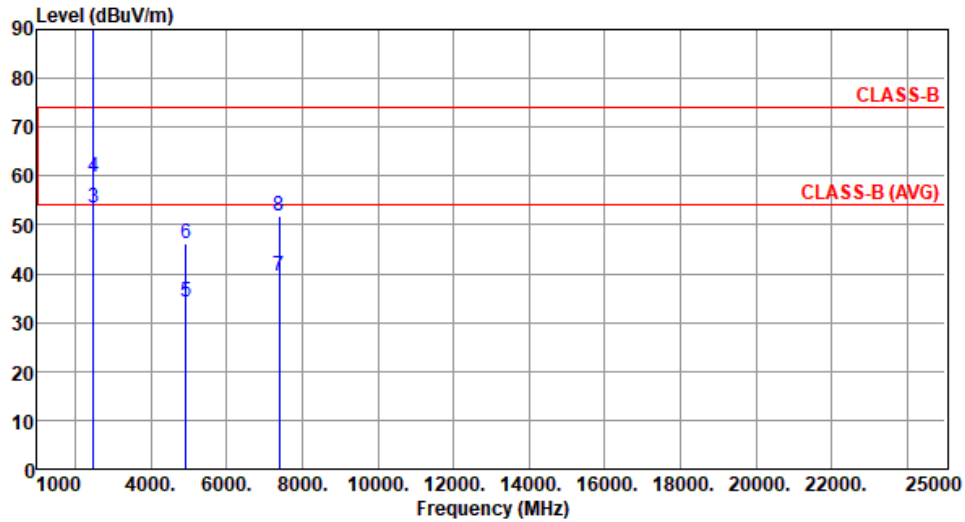
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	1

Test By :Akun Chung Temperature(°C):23 Humidity(%):62



		Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	*	2462.00	107.69			110.75	-3.06	Average	216	316
2	*	2462.00	110.56			113.62	-3.06	Peak	216	316
3		2483.50	53.52	54.00	-0.48	56.55	-3.03	Average	289	307
4		2483.50	59.79	74.00	-14.21	62.82	-3.03	Peak	289	307
5		4924.00	34.11	54.00	-19.89	30.42	3.69	Average	100	24
6		4924.00	46.05	74.00	-27.95	42.36	3.69	Peak	100	24
7		7386.00	39.65	54.00	-14.35	30.58	9.07	Average	135	6
8		7386.00	51.96	74.00	-22.04	42.89	9.07	Peak	135	6

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

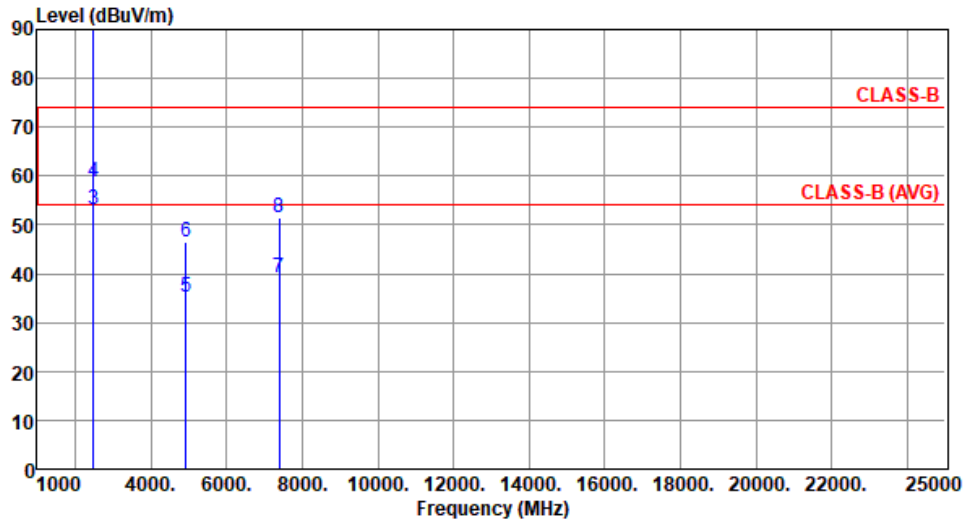
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	1

Test By :Akun Chung Temperature(°C):23 Humidity(%):62



		Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	*	2462.00	107.42			110.48	-3.06	Average	195	353
2	*	2462.00	109.87			112.93	-3.06	Peak	195	353
3		2483.50	53.17	54.00	-0.83	56.20	-3.03	Average	195	353
4		2483.50	58.79	74.00	-15.21	61.82	-3.03	Peak	195	353
5		4924.00	35.35	54.00	-18.65	31.66	3.69	Average	140	145
6		4924.00	46.64	74.00	-27.36	42.95	3.69	Peak	140	145
7		7386.00	39.27	54.00	-14.73	30.20	9.07	Average	100	46
8		7386.00	51.35	74.00	-22.65	42.28	9.07	Peak	100	46

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

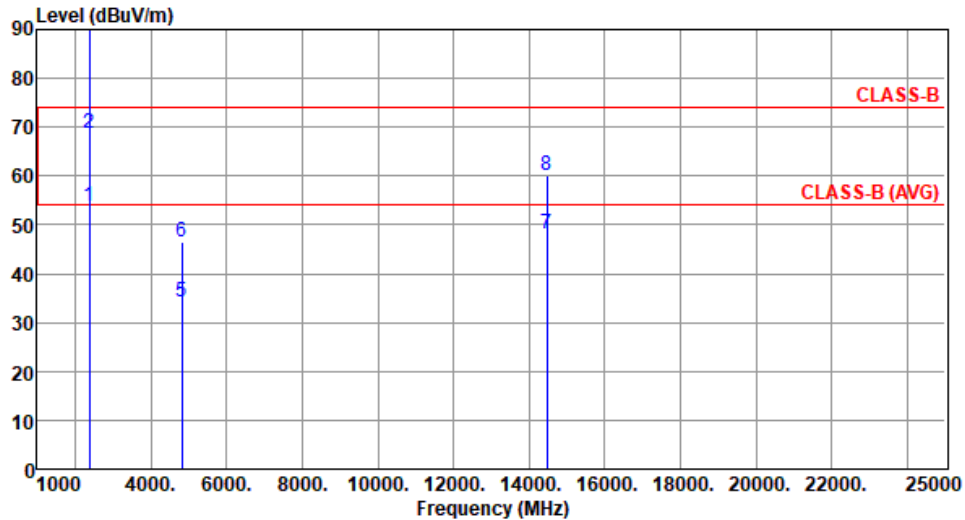
Note 3: "*" is Peak / Average value of fundamental frequency

3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1
Test By :Akun Chung Temperature(°C):23 Humidity(%):62			
Level (dBUV/m) <			

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	1

Test By : Akun Chung Temperature(°C): 23 Humidity(%): 62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	53.73	54.00	-0.27	56.53	-2.80	Average	211	14
2	2390.00	68.61	74.00	-5.39	71.41	-2.80	Peak	211	14
3 *	2412.00	100.66			103.56	-2.90	Average	211	327
4 *	2412.00	110.21			113.11	-2.90	Peak	211	327
5	4824.00	34.28	54.00	-19.72	30.68	3.60	Average	100	142
6	4824.00	46.55	74.00	-27.45	42.95	3.60	Peak	100	142
7	14472.00	48.05	54.00	-5.95	30.15	17.90	Average	100	33
8	14472.00	60.18	74.00	-13.82	42.28	17.90	Peak	100	33

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

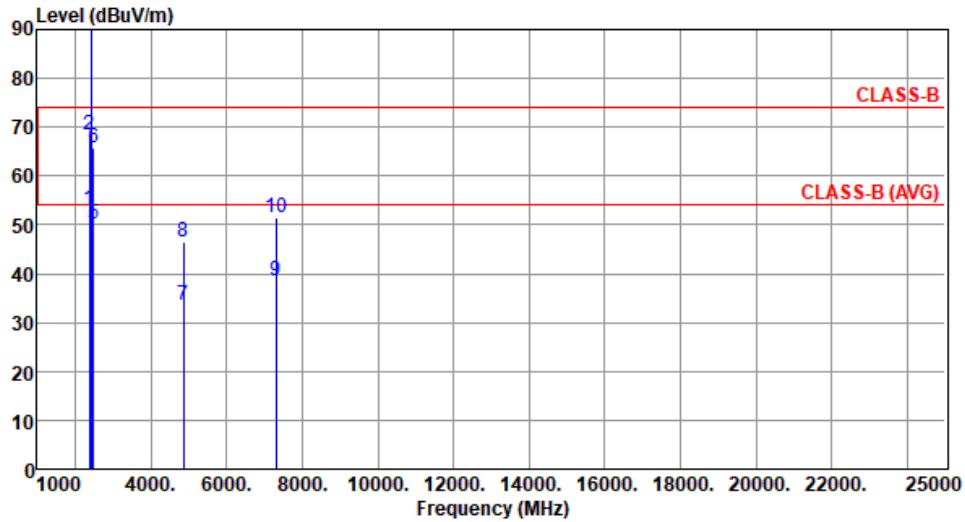
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1

Test By :Akun Chung Temperature(°C):23 Humidity(%):62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	53.10	54.00	-0.90	55.90	-2.80	Average	162	147
2	2390.00	68.54	74.00	-5.46	71.34	-2.80	Peak	162	147
3 *	2437.00	105.10			108.11	-3.01	Average	162	147
4 *	2437.00	114.64			117.65	-3.01	Peak	162	147
5	2483.50	50.19	54.00	-3.81	53.22	-3.03	Average	162	147
6	2483.50	65.64	74.00	-8.36	68.67	-3.03	Peak	162	147
7	4874.00	33.51	54.00	-20.49	29.87	3.64	Average	100	106
8	4874.00	46.33	74.00	-27.67	42.69	3.64	Peak	100	106
9	7311.00	38.51	54.00	-15.49	29.24	9.27	Average	100	101
10	7311.00	51.51	74.00	-22.49	42.24	9.27	Peak	100	101

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

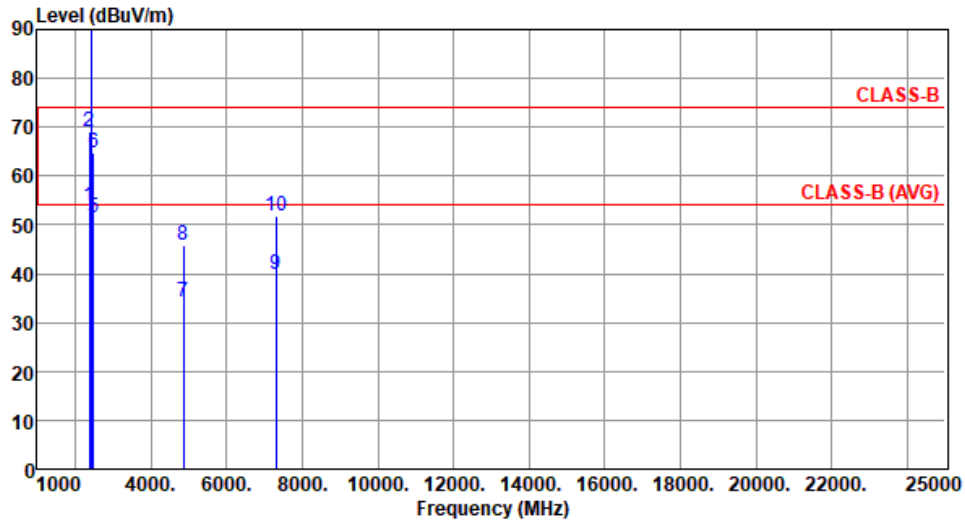
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1

Test By :Akun Chung Temperature(°C):23 Humidity(%):62



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	53.78	54.00	-0.22	56.58	-2.80	Average	184	317
2	2390.00	69.03	74.00	-4.97	71.83	-2.80	Peak	184	317
3 *	2437.00	106.73			109.74	-3.01	Average	184	317
4 *	2437.00	115.57			118.58	-3.01	Peak	184	317
5	2483.50	51.59	54.00	-2.41	54.62	-3.03	Average	184	317
6	2483.50	64.72	74.00	-9.28	67.75	-3.03	Peak	184	317
7	4874.00	34.09	54.00	-19.91	30.45	3.64	Average	100	52
8	4874.00	45.89	74.00	-28.11	42.25	3.64	Peak	100	52
9	7311.00	39.89	54.00	-14.11	30.62	9.27	Average	100	55
10	7311.00	51.94	74.00	-22.06	42.67	9.27	Peak	100	55

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

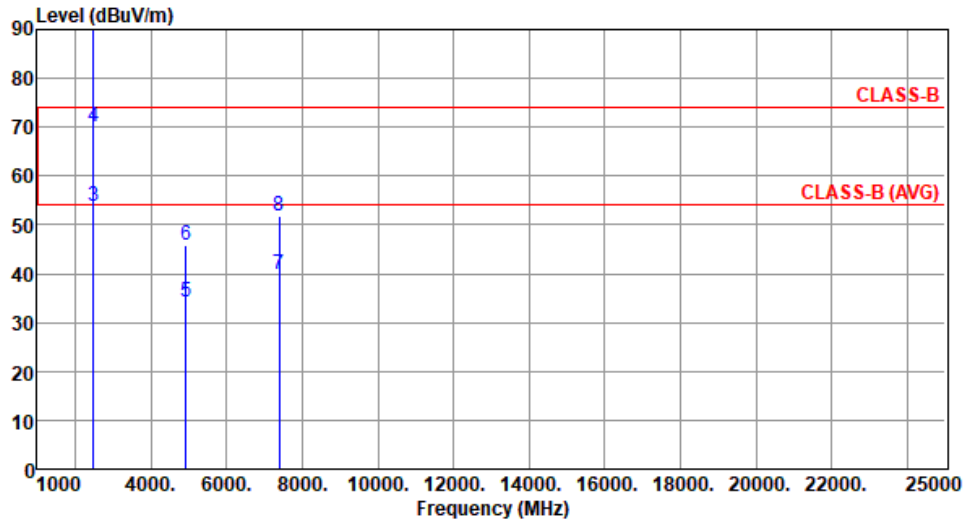
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	1

Test By : Akun Chung Temperature(°C): 23 Humidity(%): 62



		Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	*	2462.00	100.53			103.59	-3.06	Average	222	325
2	*	2462.00	110.62			113.68	-3.06	Peak	222	325
3		2483.50	53.78	54.00	-0.22	56.81	-3.03	Average	253	325
4		2483.50	69.92	74.00	-4.08	72.95	-3.03	Peak	253	325
5		4924.00	34.10	54.00	-19.90	30.41	3.69	Average	100	21
6		4924.00	45.97	74.00	-28.03	42.28	3.69	Peak	100	21
7		7386.00	39.72	54.00	-14.28	30.65	9.07	Average	100	105
8		7386.00	51.70	74.00	-22.30	42.63	9.07	Peak	100	105

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

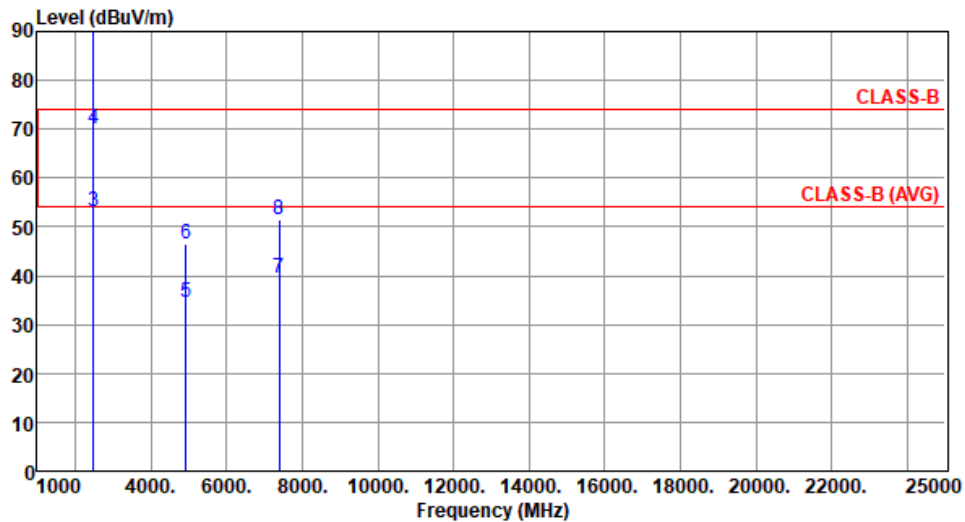
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	1

Test By : Akun Chung Temperature(°C): 23 Humidity(%): 62



		Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	*	2462.00	100.96			104.02	-3.06	Average	232	342
2	*	2462.00	110.52			113.58	-3.06	Peak	232	342
3		2483.50	53.23	54.00	-0.77	56.26	-3.03	Average	232	342
4		2483.50	69.94	74.00	-4.06	72.97	-3.03	Peak	232	342
5		4924.00	34.54	54.00	-19.46	30.85	3.69	Average	100	149
6		4924.00	46.55	74.00	-27.45	42.86	3.69	Peak	100	149
7		7386.00	39.36	54.00	-14.64	30.29	9.07	Average	100	37
8		7386.00	51.37	74.00	-22.63	42.30	9.07	Peak	100	37

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

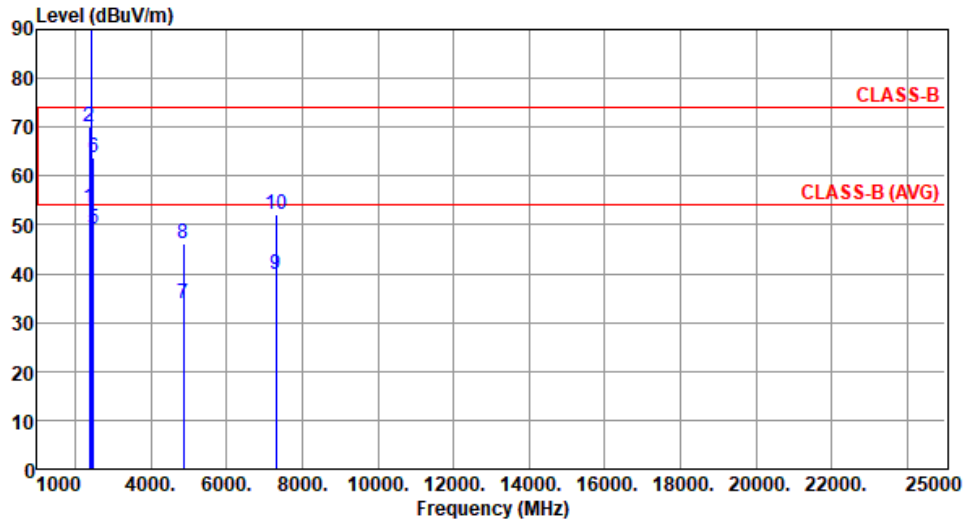
3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ac VHT20

Modulation	VHT20	Test Freq. (MHz)	2412
Polarization	Horizontal	Test Configuration	1
Test By :Akun Chung Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	2412
Polarization	Vertical	Test Configuration	1
Test By :Akun Chung Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1

Test By :Akun Chung Temperature(°C):24 Humidity(%):64



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	53.60	54.00	-0.40	56.40	-2.80	Average	262	52
2	2390.00	70.05	74.00	-3.95	72.85	-2.80	Peak	262	52
3 *	2437.00	104.85			107.86	-3.01	Average	271	49
4 *	2437.00	114.73			117.74	-3.01	Peak	271	49
5	2483.50	49.30	54.00	-4.70	52.33	-3.03	Average	271	49
6	2483.50	63.82	74.00	-10.18	66.85	-3.03	Peak	271	49
7	4874.00	33.92	54.00	-20.08	30.28	3.64	Average	100	28
8	4874.00	46.00	74.00	-28.00	42.36	3.64	Peak	100	28
9	7311.00	39.91	54.00	-14.09	30.64	9.27	Average	100	53
10	7311.00	52.13	74.00	-21.87	42.86	9.27	Peak	100	53

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

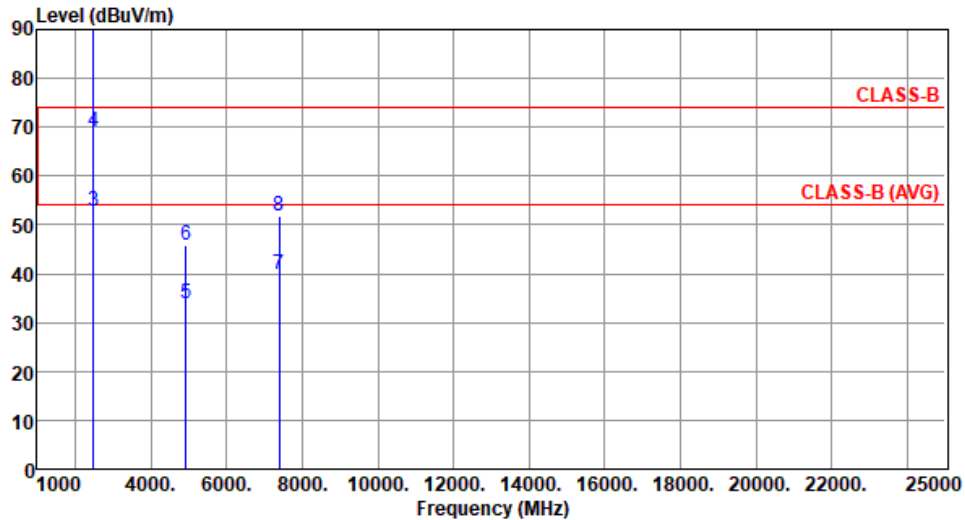
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1
Test By :Akun Chung Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

Modulation	VHT20	Test Freq. (MHz)	2462
Polarization	Horizontal	Test Configuration	1

Test By : Akun Chung Temperature(°C): 24 Humidity(%): 64



		Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	*	2462.00	99.48			102.54	-3.06	Average	239	331
2	*	2462.00	109.63			112.69	-3.06	Peak	239	331
3		2483.50	52.95	54.00	-1.05	55.98	-3.03	Average	241	327
4		2483.50	69.02	74.00	-4.98	72.05	-3.03	Peak	241	327
5		4924.00	33.99	54.00	-20.01	30.30	3.69	Average	100	25
6		4924.00	45.98	74.00	-28.02	42.29	3.69	Peak	100	25
7		7386.00	39.86	54.00	-14.14	30.79	9.07	Average	100	108
8		7386.00	51.96	74.00	-22.04	42.89	9.07	Peak	100	108

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

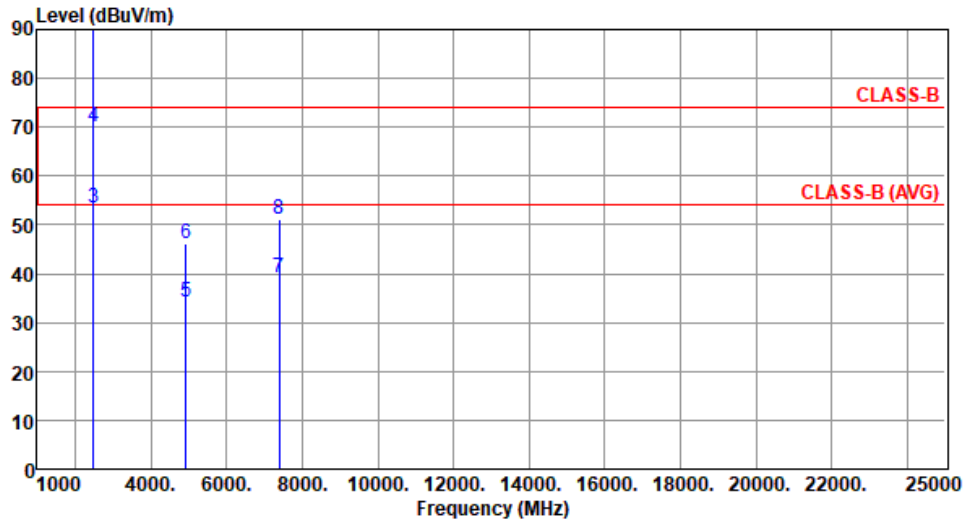
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT20	Test Freq. (MHz)	2462
Polarization	Vertical	Test Configuration	1

Test By : Akun Chung Temperature(°C): 24 Humidity(%): 64



		Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	*	2462.00	100.95			104.01	-3.06	Average	174	345
2	*	2462.00	111.10			114.16	-3.06	Peak	174	345
3		2483.50	53.52	54.00	-0.48	56.55	-3.03	Average	174	318
4		2483.50	70.22	74.00	-3.78	73.25	-3.03	Peak	174	318
5		4924.00	34.37	54.00	-19.63	30.68	3.69	Average	100	142
6		4924.00	46.32	74.00	-27.68	42.63	3.69	Peak	100	142
7		7386.00	39.21	54.00	-14.79	30.14	9.07	Average	100	37
8		7386.00	51.30	74.00	-22.70	42.23	9.07	Peak	100	37

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

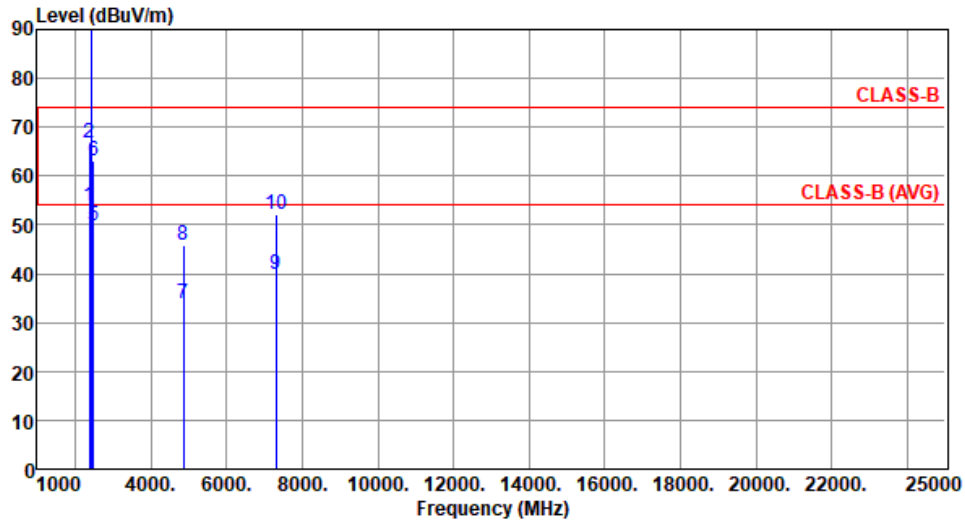
3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for ac VHT40

Modulation	VHT40	Test Freq. (MHz)	2422
Polarization	Horizontal	Test Configuration	1
Test By :Akun Chung Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	2422
Polarization	Vertical	Test Configuration	1
Test By :Akun Chung Temperature(°C):24 Humidity(%):64			
Level (dBuV/m)			

Modulation	VHT40	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1

Test By :Akun Chung Temperature(°C):24 Humidity(%):64



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	53.85	54.00	-0.15	56.65	-2.80	Average	352	49
2	2390.00	66.79	74.00	-7.21	69.59	-2.80	Peak	352	49
3 *	2437.00	96.63			99.64	-3.01	Average	220	339
4 *	2437.00	106.19			109.20	-3.01	Peak	220	339
5	2483.50	49.86	54.00	-4.14	52.89	-3.03	Average	219	321
6	2483.50	62.94	74.00	-11.06	65.97	-3.03	Peak	219	321
7	4874.00	33.89	54.00	-20.11	30.25	3.64	Average	100	29
8	4874.00	45.74	74.00	-28.26	42.10	3.64	Peak	100	29
9	7311.00	39.94	54.00	-14.06	30.67	9.27	Average	100	107
10	7311.00	52.06	74.00	-21.94	42.79	9.27	Peak	100	107

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

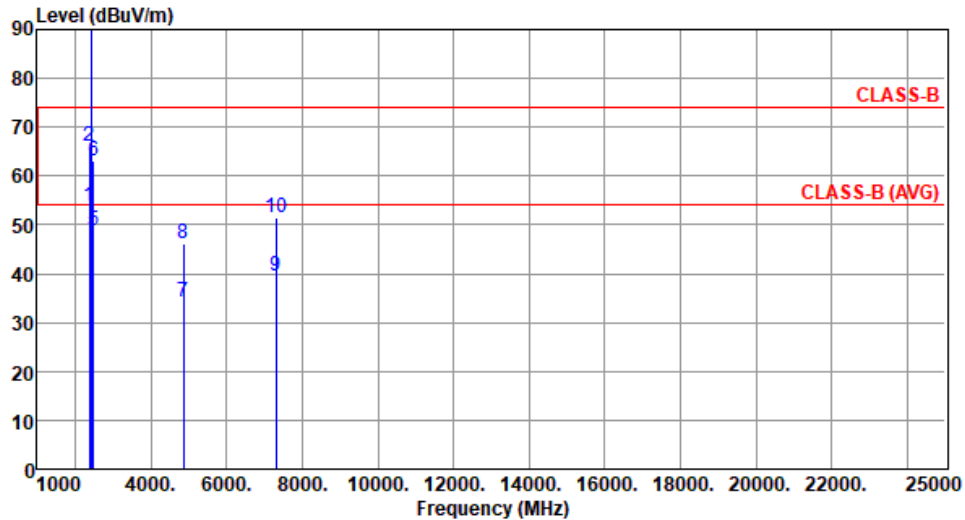
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT40	Test Freq. (MHz)	2437
Polarization	Vertical	Test Configuration	1

Test By : Akun Chung Temperature(°C): 24 Humidity(%): 64



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	53.74	54.00	-0.26	56.54	-2.80	Average	264	341
2	2390.00	66.17	74.00	-7.83	68.97	-2.80	Peak	264	341
3 *	2437.00	98.35			101.36	-3.01	Average	223	341
4 *	2437.00	108.60			111.61	-3.01	Peak	223	341
5	2483.50	48.76	54.00	-5.24	51.79	-3.03	Average	223	341
6	2483.50	62.94	74.00	-11.06	65.97	-3.03	Peak	223	341
7	4874.00	34.31	54.00	-19.69	30.67	3.64	Average	100	146
8	4874.00	46.23	74.00	-27.77	42.59	3.64	Peak	100	146
9	7311.00	39.41	54.00	-14.59	30.14	9.27	Average	100	38
10	7311.00	51.46	74.00	-22.54	42.19	9.27	Peak	100	38

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

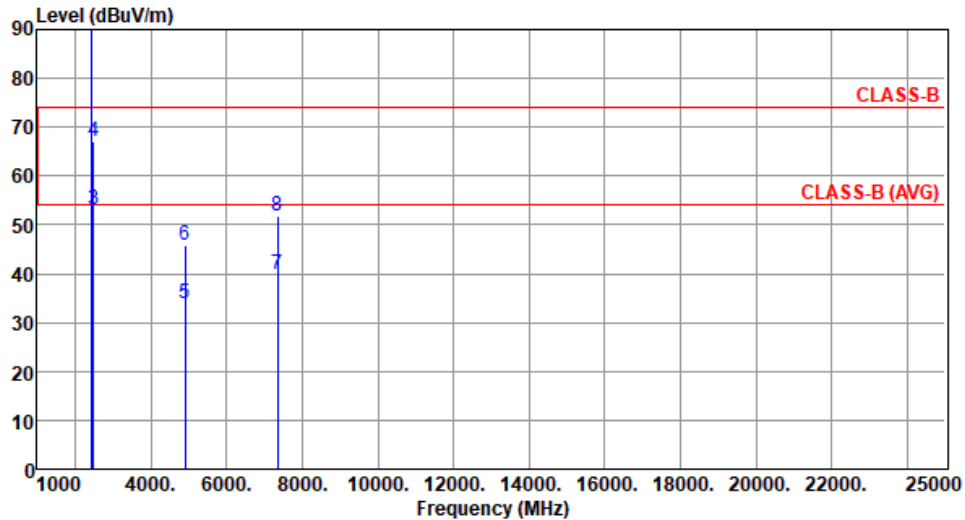
*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT40	Test Freq. (MHz)	2452
Polarization	Horizontal	Test Configuration	1

Test By : Akun Chung Temperature(°C): 24 Humidity(%): 64



		Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	*	2452.00	94.94			98.01	-3.07	Average	252	322
2	*	2452.00	104.82			107.89	-3.07	Peak	252	322
3		2483.50	53.00	54.00	-1.00	56.03	-3.03	Average	252	322
4		2483.50	67.18	74.00	-6.82	70.21	-3.03	Peak	252	322
5		4904.00	33.85	54.00	-20.15	30.22	3.63	Average	100	25
6		4904.00	45.92	74.00	-28.08	42.29	3.63	Peak	100	25
7		7356.00	39.71	54.00	-14.29	30.63	9.08	Average	100	107
8		7356.00	51.95	74.00	-22.05	42.87	9.08	Peak	100	107

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

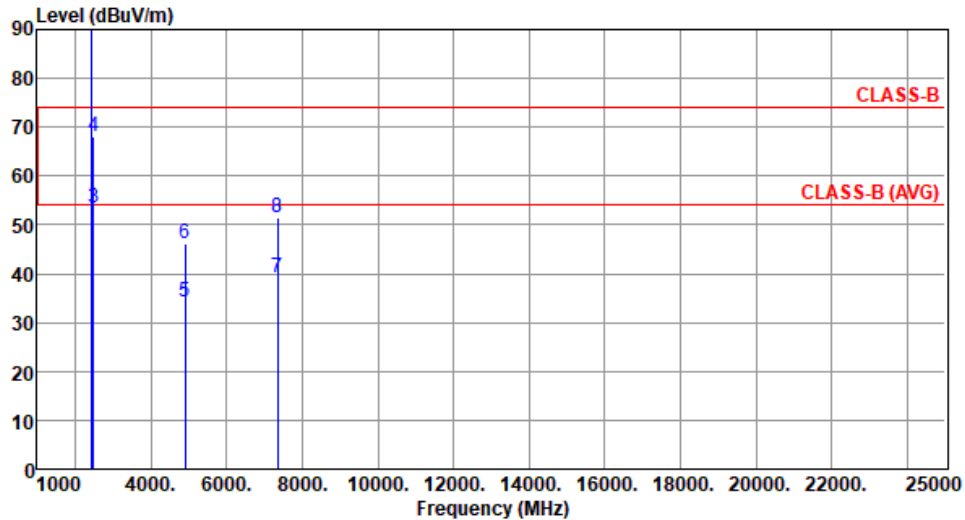
*Factor includes antenna factor, cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

Modulation	VHT40	Test Freq. (MHz)	2452
Polarization	Vertical	Test Configuration	1

Test By : Akun Chung Temperature(°C): 24 Humidity(%): 64



		Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	*	2452.00	96.41			99.48	-3.07	Average	231	344
2	*	2452.00	106.23			109.30	-3.07	Peak	231	344
3		2483.50	53.51	54.00	-0.49	56.54	-3.03	Average	231	344
4		2483.50	68.01	74.00	-5.99	71.04	-3.03	Peak	231	344
5		4904.00	34.21	54.00	-19.79	30.58	3.63	Average	100	148
6		4904.00	46.30	74.00	-27.70	42.67	3.63	Peak	100	148
7		7356.00	39.27	54.00	-14.73	30.19	9.08	Average	100	39
8		7356.00	51.37	74.00	-22.63	42.29	9.08	Peak	100	39

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Note 3: "*" is Peak / Average value of fundamental frequency

3.6 Emissions in Non-Restricted Frequency Bands

3.6.1 Emissions in Non-Restricted Frequency Bands Limit

Peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz.

3.6.2 Test Procedures

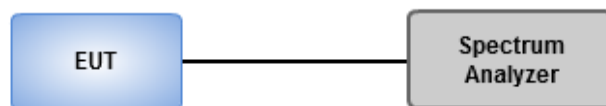
Reference level measurement

1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Use the peak marker function to determine the maximum PSD level

Emission level measurement

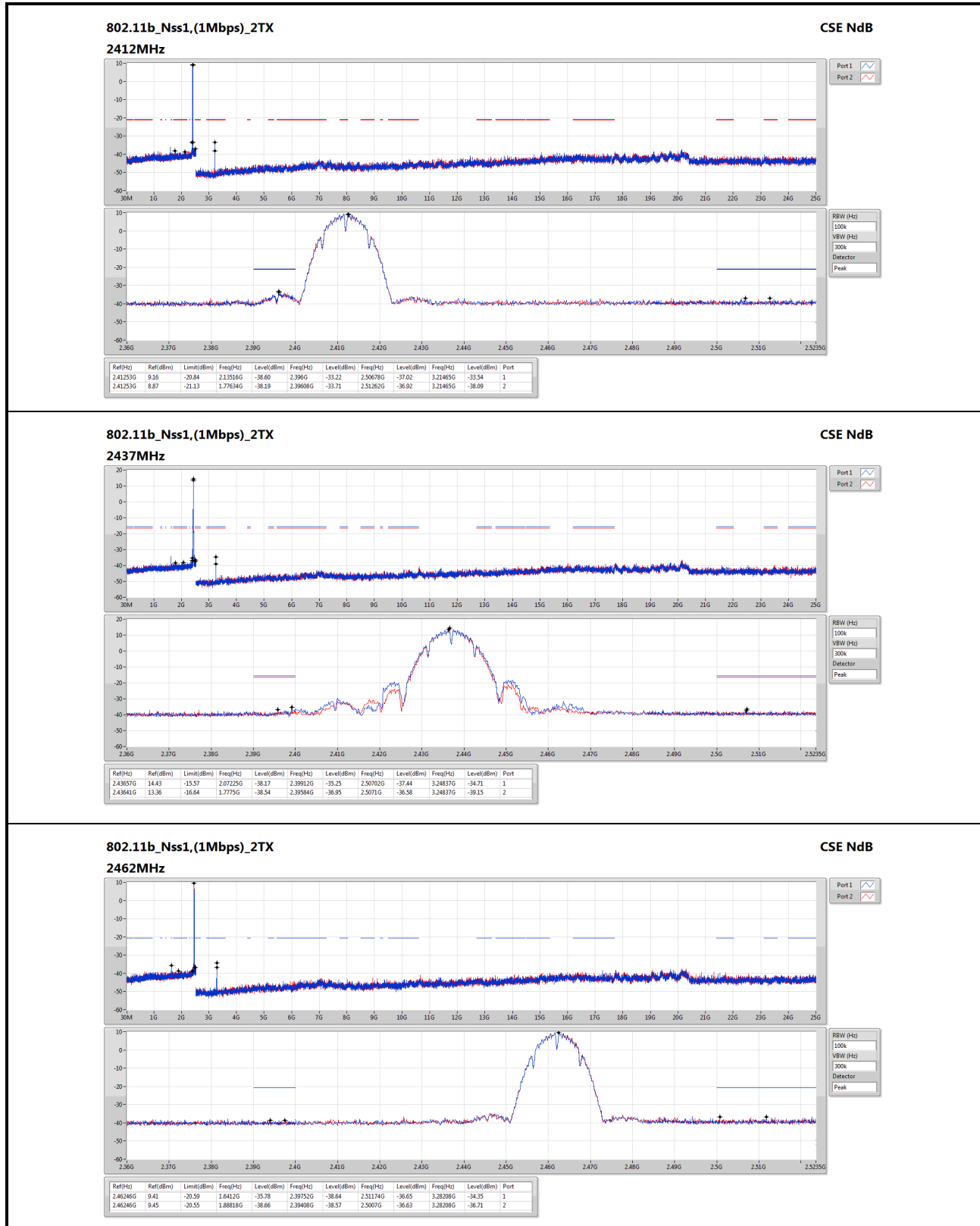
1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

3.6.3 Test Setup



3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands

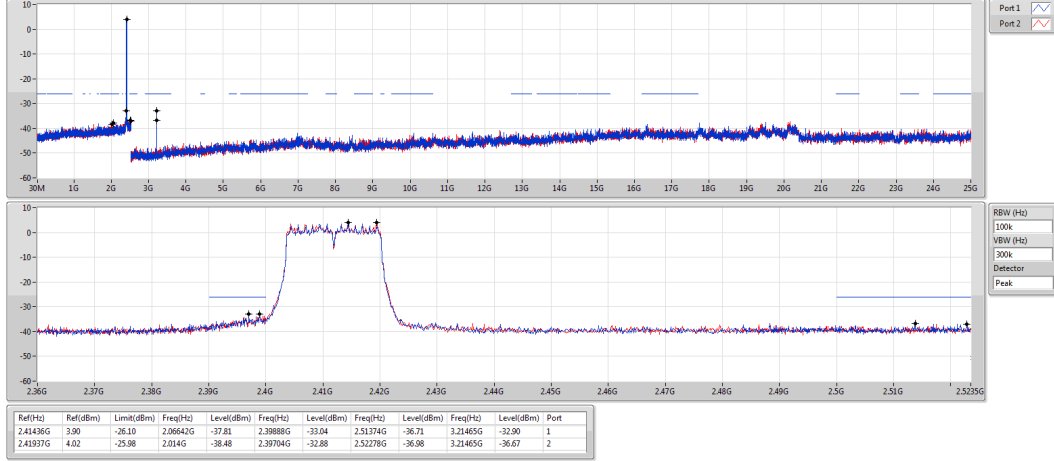
Ambient Condition	25°C / 67%	Tested By	Aska Huang
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802.11g_Nss1,(6Mbps)_2TX

CSE NdB

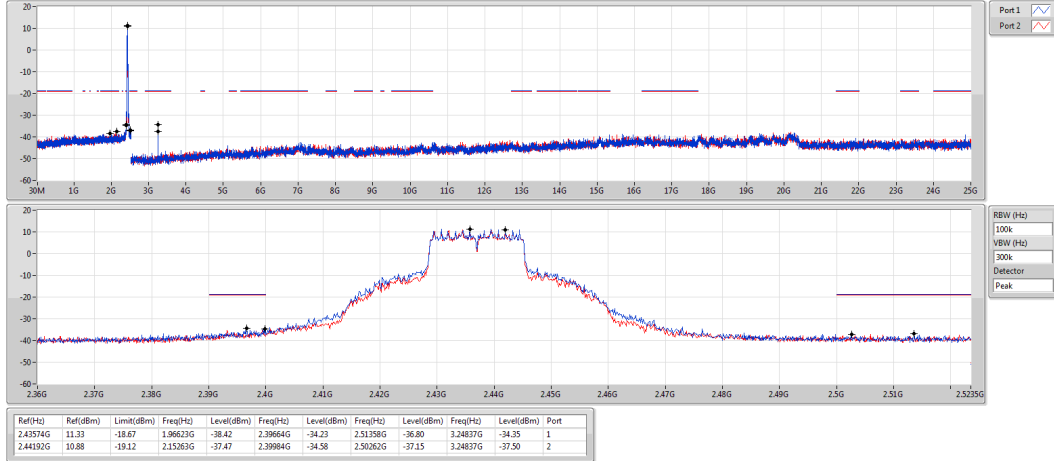
2412MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

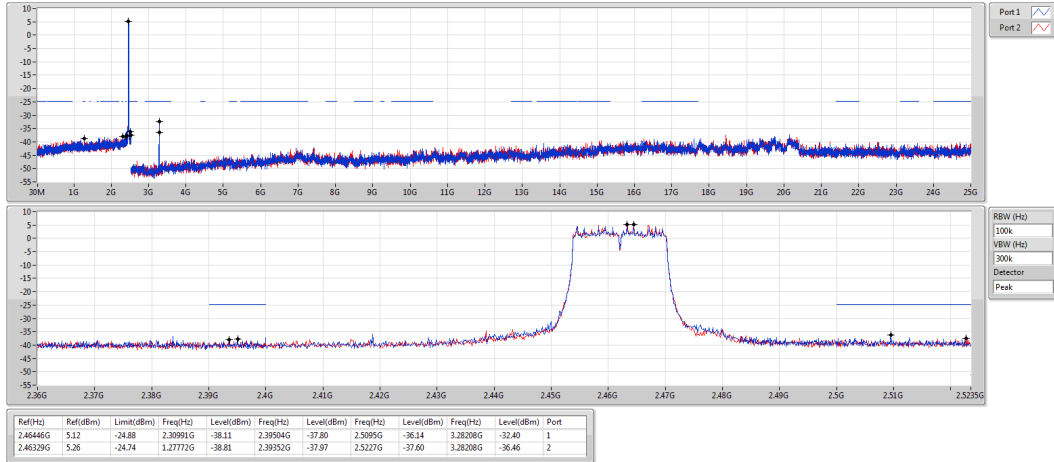
2437MHz



802.11g_Nss1,(6Mbps)_2TX

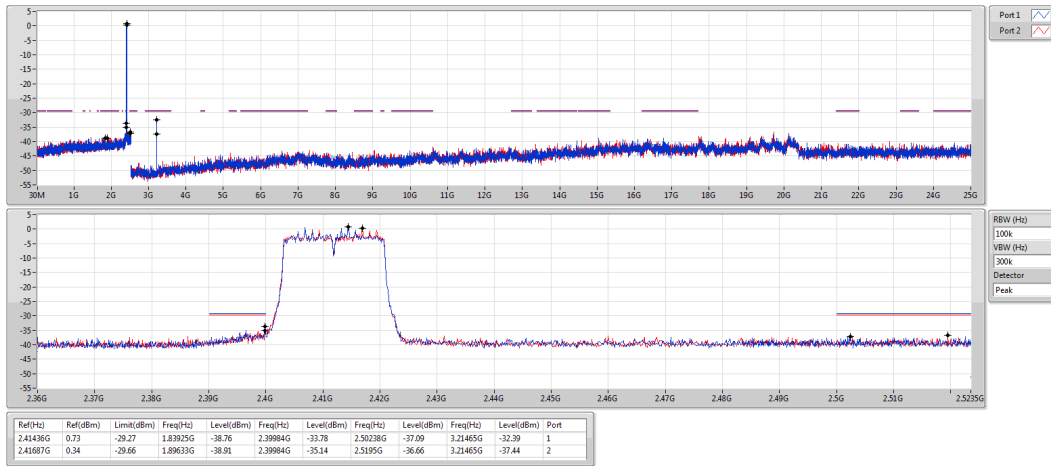
CSE NdB

2462MHz



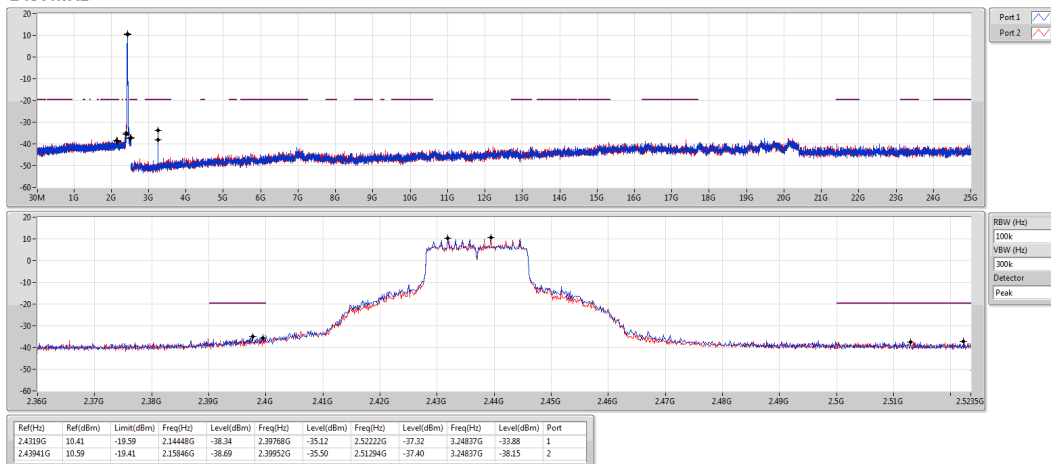
802.11ac VHT20_Nss1,(MCS0)_2TX
2412MHz

CSE NdB



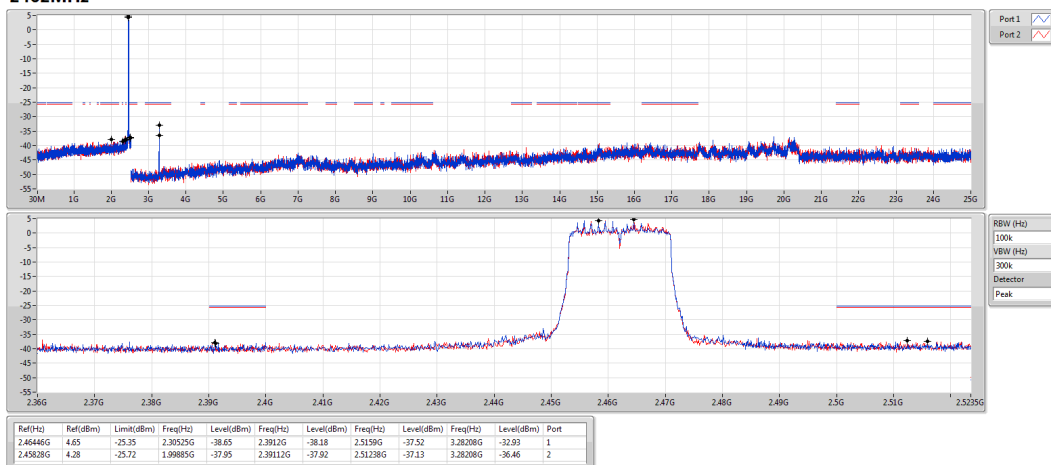
802.11ac VHT20_Nss1,(MCS0)_2TX
2437MHz

CSE NdB



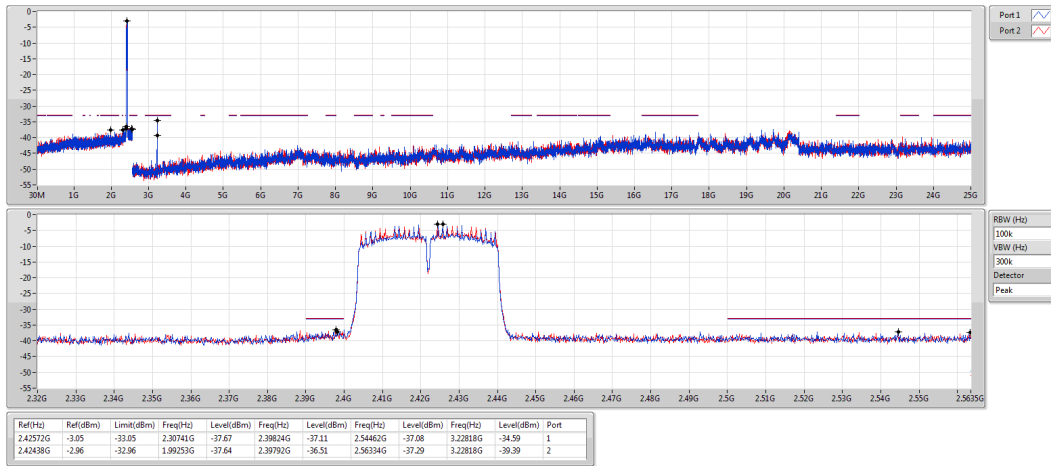
802.11ac VHT20_Nss1,(MCS0)_2TX
2462MHz

CSE NdB



802.11ac VHT40_Nss1,(MCS0)_2TX
2422MHz

CSE NdB



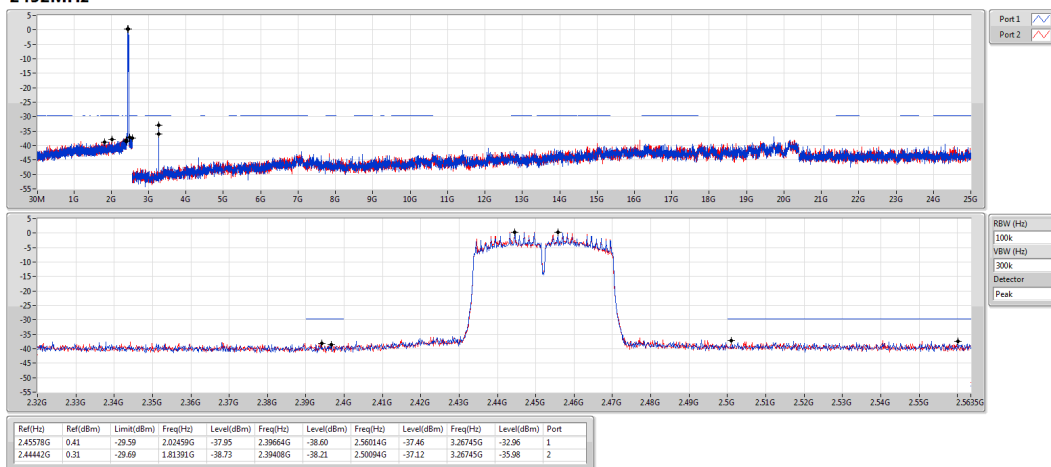
802.11ac VHT40_Nss1,(MCS0)_2TX
2437MHz

CSE NdB



802.11ac VHT40_Nss1,(MCS0)_2TX
2452MHz

CSE NdB



4 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corp (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin
Kou District, New Taipei City,
Taiwan, R.O.C.

Kwei Shan

Tel: 886-3-271-8666

No. 3-1, Lane 6, Wen San 3rd St.,
Kwei Shan District, Tao Yuan City
333, Taiwan, R.O.C.

Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd
St., Kwei Shan District, Tao Yuan
City 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==