

# FCC Test Report

**FCC ID** : **SQG-SOM8MPLUS**  
**Equipment** : **Summit SOM 8M Plus System-on-Module - WiFi 5 + Bluetooth 5.3**  
**Model No.** : **Summit SOM 8M Plus**  
**Brand Name** : **Laird Connectivity**  
**Applicant** : **Laird Connectivity LLC**  
**Address** : **W66N220 Commerce Court, Cedarburg, WI 53012 United States Of America**  
**Standard** : **47 CFR FCC Part 15.247**  
**Received Date** : **Oct. 28, 2021**  
**Tested Date** : **Feb. 14 ~ Mar. 08, 2022**

We, International Certification Corporation, 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 shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:

  
\_\_\_\_\_  
Along Chen / Assistant Manager

  
\_\_\_\_\_  
Gary Chang / Manager

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## Table of Contents

<b>1</b>	<b>GENERAL DESCRIPTION .....</b>	<b>5</b>
1.1	Information.....	5
1.2	Local Support Equipment List .....	8
1.3	Test Setup Chart .....	8
1.4	The Equipment List .....	9
1.5	Test Standards .....	11
1.6	Reference Guidance .....	11
1.7	Deviation from Test Standard and Measurement Procedure.....	11
1.8	Measurement Uncertainty .....	11
<b>2</b>	<b>TEST CONFIGURATION .....</b>	<b>12</b>
2.1	Testing Facility.....	12
2.2	The Worst Test Modes and Channel Details .....	12
<b>3</b>	<b>TRANSMITTER TEST RESULTS.....</b>	<b>13</b>
3.1	Conducted Emissions.....	13
3.2	6dB and Occupied Bandwidth .....	16
3.3	RF Output Power .....	22
3.4	Power Spectral Density .....	25
3.5	Unwanted Emissions into Restricted Frequency Bands .....	31
3.6	Emissions in Non-Restricted Frequency Bands.....	111
<b>4</b>	<b>TEST LABORATORY INFORMATION .....</b>	<b>116</b>

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## Release Record

Report No.	Version	Description	Issued Date
FR1O2803AC	Rev. 01	Initial issue	Mar. 24, 2022

## Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.180MHz 43.08 (Margin -21.42dB) - QP	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2390.00MHz 50.99 (Margin -3.01dB) - AV	Pass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: 28.85	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

The device has 3 hardware configurations as below:

No.	Brand name	Model Name	Part Number	Description
1	Laird Connectivity	Summit SOM 8M Plus	453-00070	512MB LPDDR4 and 8GB eMMC
2			453-00071	1GB LPDDR4 and 8GB eMMC
3			453-00072	2GB LPDDR4 and 16GB eMMC

### 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 <sub>TX</sub> )	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	1	1-11 Mbps
				2	
2400-2483.5	g	2412-2462	1-11 [11]	1	6-54 Mbps
				2	
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1	MCS 0-7
				2	MCS 0-15
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	1	MCS 0-7
				2	MCS 0-15

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..

### 1.1.2 Antenna Details

Ant. No.	Model	Part Number	Type	Connector	Gain (dBi)
1	Nanoblade	CAF94505	PCB Dipole	IPEX U.FL	2.0
2	Mini NanoBlade Flex	MAF95310	PCB Dipole	IPEX U.FL	2.8
3	FlexMIMO	EFD2455A3S-10MHF1	PCB Dipole	IPEX U.FL	2.0
4	2.4/5.5 GHz FlexPIFA	001-0016	PIFA	IPEX U.FL	2.5
5	001-0009	001-0009	Dipole	RP-SMA	2.0

### 1.1.3 Power Supply Type of Equipment under Test (EUT)

<b>Power Supply Type</b>	5Vdc from host
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### 1.1.4 Accessories

N/A

### 1.1.5 Channel List

Frequency band (MHz)		2400~2483.5	
802.11 b / g / n HT20		802.11n HT40	
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

<b>Test Tool</b>	Tera term, Version: V4.94		
<b>Duty Cycle and Duty Factor</b>	<b>Mode</b>	<b>Duty Cycle (%)</b>	<b>Duty Factor (dB)</b>
	11b	100.00	0.00
	11g	100.00	0.00
	HT20	100.00	0.00
	HT40	100.00	0.00

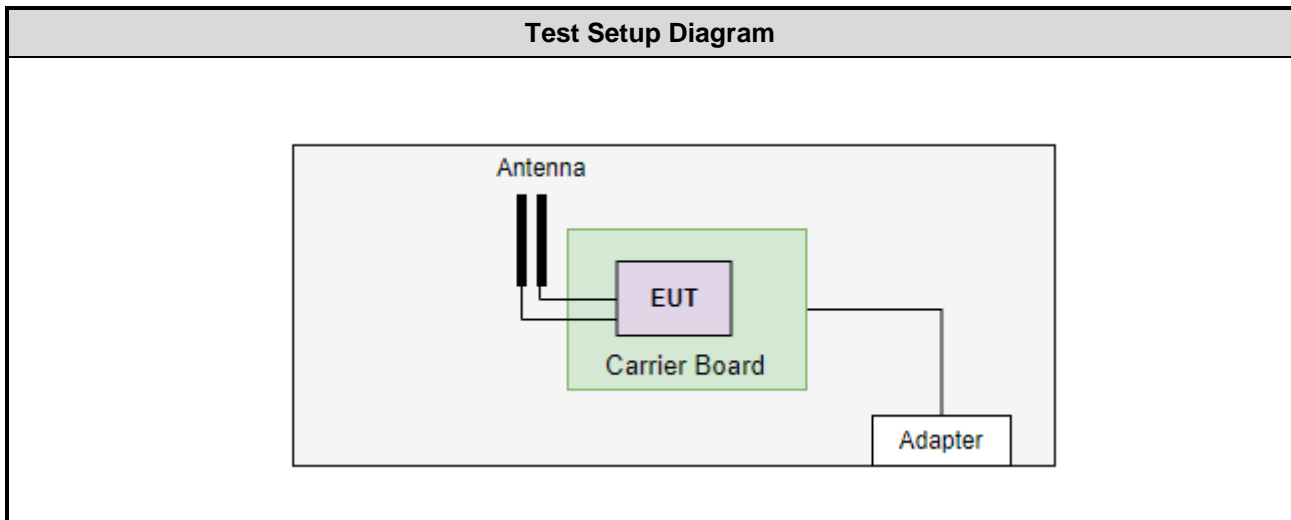
### 1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11b	2412	17
11b	2437	18
11b	2462	16
11g	2412	13
11g	2437	18
11g	2462	12
HT20	2412	12
HT20	2437	18
HT20	2462	11
HT40	2422	10
HT40	2437	12
HT40	2452	10

## 1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude 5400	DoC	---
2	Carrier Board	---	---	---	Provided by applicant.
3	USB Cable	ICC	micro to A	---	---
4	USB console cable	---	---	---	Provided by applicant.

## 1.3 Test Setup Chart



Note: The support notebook and USB cable were disconnected from EUT and removed from test table when EUT is set to transmit continuously.



## 1.4 The Equipment List

<b>Test Item</b>	Conducted Emission				
<b>Test Site</b>	Conduction room 1 / (CO01-WS)				
<b>Tested Date</b>	Mar. 03, 2022				
<b>Instrument</b>	<b>Brand</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Receiver	R&S	ESR3	101658	Feb. 16, 2022	Feb. 15, 2023
LISN	R&S	ENV216	101579	Mar. 17, 2021	Mar. 16, 2022
LISN (Support Unit)	SCHWARZBECK MESS-ELEKTRONIK	NSLK 8127	8127667	Jan .07, 2022	Jan .06, 2023
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 19, 2021	Oct. 18, 2022
50 ohm terminal (Support Unit)	NA	50	04	May 25, 2021	May 24, 2022
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

<b>Test Item</b>	RF Conducted				
<b>Test Site</b>	(TH01-WS)				
<b>Tested Date</b>	Mar. 08, 2022				
<b>Instrument</b>	<b>Brand</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Spectrum Analyzer	R&S	FSV40	101498	Nov. 29, 2021	Nov. 28, 2022
Power Meter	Anritsu	ML2495A	1241002	Nov. 07, 2021	Nov. 06, 2022
Power Sensor	Anritsu	MA2411B	1207366	Nov. 07, 2021	Nov. 06, 2022
Measurement Software	Sporton	SENSE-15247_FS	V5.10.7.11	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

<b>Test Item</b>	Radiated Emission				
<b>Test Site</b>	966 chamber1 / (03CH01-WS)				
<b>Tested Date</b>	Feb. 14 ~ Feb. 25, 2022				
<b>Instrument</b>	<b>Brand</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Calibration Date</b>	<b>Calibration Until</b>
Receiver	R&S	ESR3	101657	Mar. 12, 2021	Mar. 11, 2022
Spectrum Analyzer	R&S	FSV40	101063	Apr. 19, 2021	Apr. 18, 2022
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 08, 2021	Nov. 07, 2022
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jun. 30, 2021	Jun. 29, 2022
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 03, 2021	Dec. 02, 2022
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170508	Jan. 11, 2022	Jan. 10, 2023
Preamplifier	EMC	EMC02325	980225	Jun. 29, 2021	Jun. 28, 2022
Preamplifier	Agilent	83017A	MY39501308	Sep. 28, 2021	Sep. 27, 2022
Preamplifier	EMC	EMC184045B	980192	Jul. 14, 2021	Jul. 13, 2022
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 05, 2021	Oct. 04, 2022
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 05, 2021	Oct. 04, 2022
LF cable 11M	EMC	EMCCFD400-NW-N W-11000	200801	Oct. 05, 2021	Oct. 04, 2022
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	160502	Oct. 05, 2021	Oct. 04, 2022
RF Cable	EMC	EMC104-35M-35M- 8000	210920	Oct. 05, 2021	Oct. 04, 2022
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 05, 2021	Oct. 04, 2022
Measurement Software	AUDIX	e3	6.120210g	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 ≤ 1GHz	±3.96 dB
Radiated emission > 1GHz	±4.51 dB

## 2 Test Configuration

### 2.1 Testing Facility

<b>Test Laboratory</b>	International Certification Corporation
<b>Test Site</b>	CO01-WS, 03CH01-WS, TH01-WS
<b>Address of Test Site</b>	No.3-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- ISED#: 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	11g	2437	6 Mbps	1
Radiated Emissions ≤1GHz	11g	2437	6 Mbps	1, 2, 3
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
Radiated Emissions >1GHz	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, 2, 3
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** result was found as the worst case and was shown in this report.
2. Test configurations are listed as below:
  - 1) Configuration 1: Part Number: MAF95310 with PCB Dipole Antenna
  - 2) Configuration 2: Part Number: 001-0016 with PIFA Antenna
  - 3) Configuration 3: Part Number: 001-0009 with Dipole Antenna

## 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

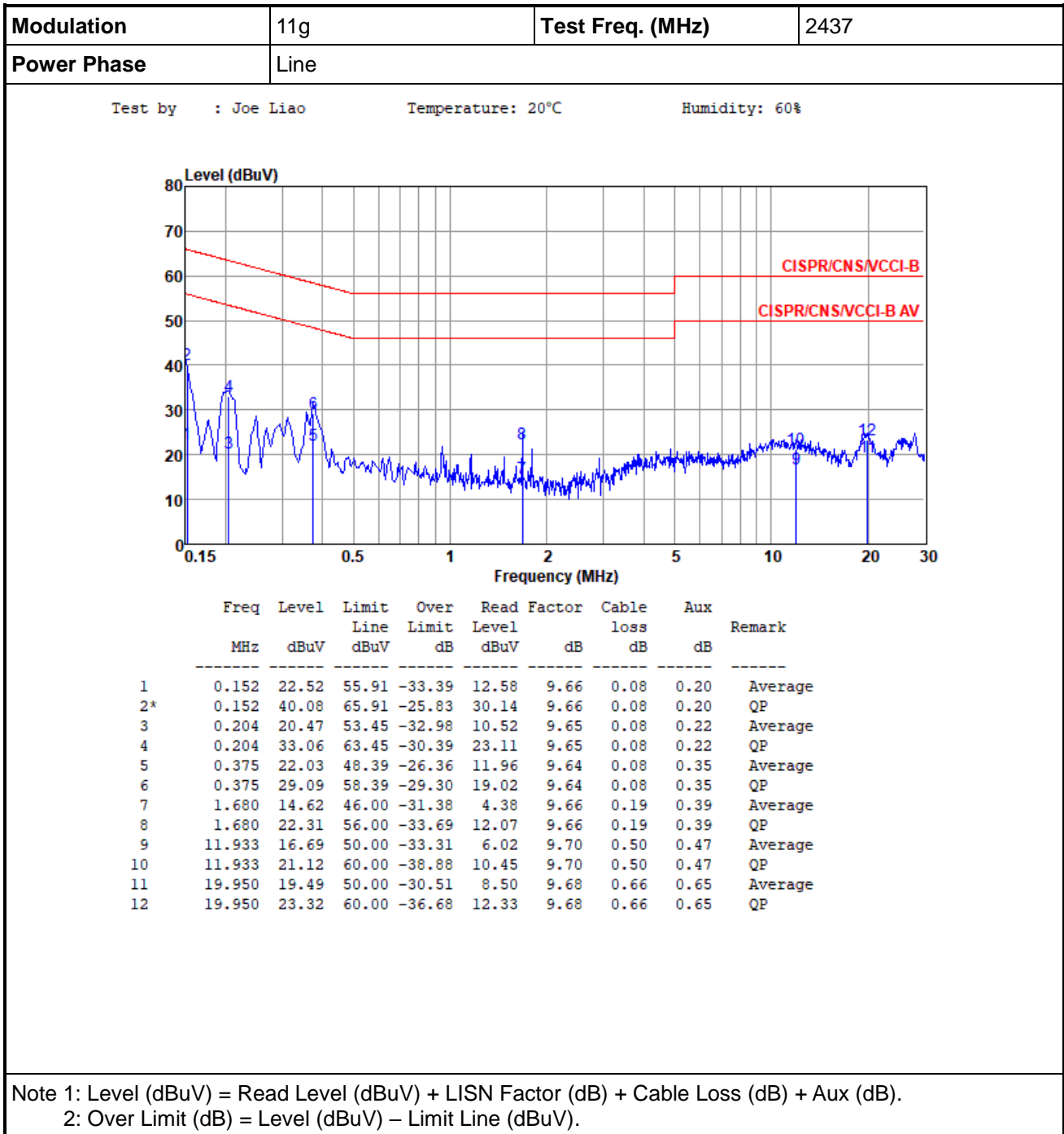
1. The device is placed on a test table, raised 80 cm above the reference ground plane. The vertical conducting plane is located 40 cm to the rear of the device.
2. The device is connected to line impedance stabilization network (LISN) and other accessories are connected to other LISN. Measured levels of AC power line conducted emission are across the 50  $\Omega$  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

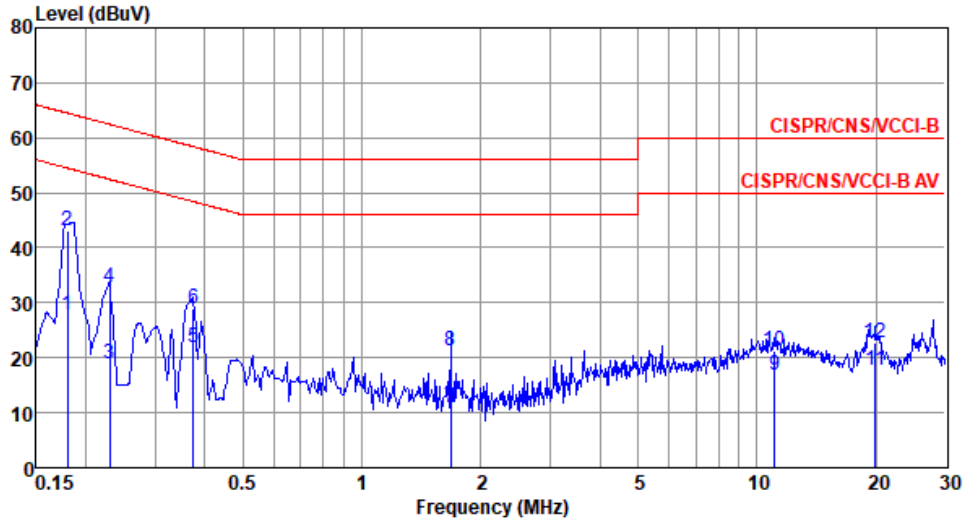
### 3.1.4 Test Result of Conducted Emissions



<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2437
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<b>Power Phase</b>	Neutral
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Test by : Joe Liao      Temperature: 20°C      Humidity: 60%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	Factor dB	Cable loss dB	Aux dB	Remark
1	0.180	27.83	54.50	-26.67	17.90	9.68	0.08	0.17	Average
2*	0.180	43.08	64.50	-21.42	33.15	9.68	0.08	0.17	QP
3	0.230	18.89	52.44	-33.55	8.95	9.68	0.08	0.18	Average
4	0.230	32.71	62.44	-29.73	22.77	9.68	0.08	0.18	QP
5	0.375	21.93	48.39	-26.46	11.99	9.67	0.08	0.19	Average
6	0.375	28.96	58.39	-29.43	19.02	9.67	0.08	0.19	QP
7	1.680	11.01	46.00	-34.99	0.83	9.69	0.19	0.30	Average
8	1.680	21.15	56.00	-34.85	10.97	9.69	0.19	0.30	QP
9	11.080	16.83	50.00	-33.17	6.18	9.77	0.48	0.40	Average
10	11.080	21.31	60.00	-38.69	10.66	9.77	0.48	0.40	QP
11	19.950	17.67	50.00	-32.33	6.72	9.84	0.66	0.45	Average
12	19.950	22.62	60.00	-37.38	11.67	9.84	0.66	0.45	QP

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

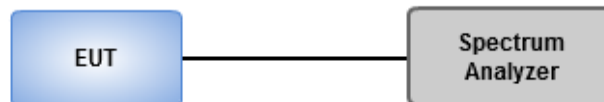
#### 6dB Bandwidth

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

<b>Ambient Condition</b>	22°C / 66%	<b>Tested By</b>	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	10.072M	13.603M	13M6G1D	9.71M	13.386M
802.11g_Nss1,(6Mbps)_2TX	16.594M	16.715M	16M7D1D	16.522M	16.57M
802.11n HT20_Nss1,(MCS0)_2TX	17.754M	17.656M	17M7D1D	17.609M	17.583M
802.11n HT40_Nss1,(MCS0)_2TX	36.522M	36.179M	36M2D1D	36.377M	36.035M

**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

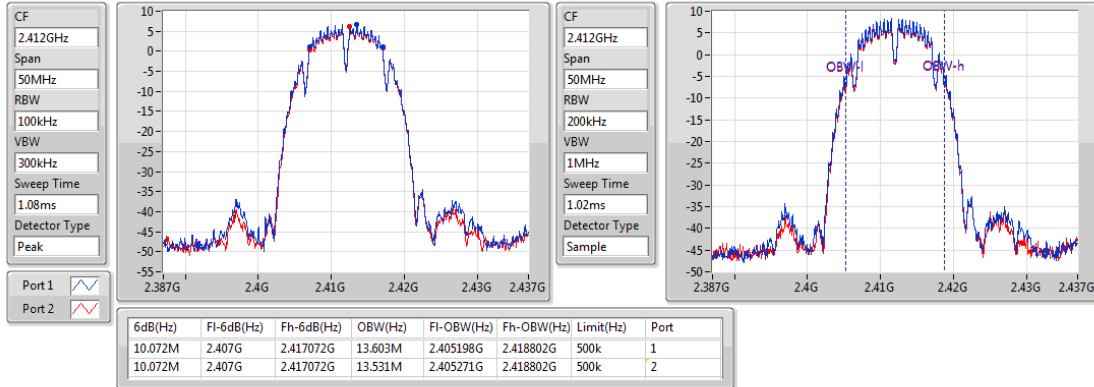
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	10.072M	13.603M	10.072M	13.531M
2437MHz	Pass	500k	10M	13.531M	9.71M	13.531M
2462MHz	Pass	500k	10.072M	13.386M	10.072M	13.386M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.594M	16.715M	16.594M	16.643M
2437MHz	Pass	500k	16.522M	16.643M	16.522M	16.643M
2462MHz	Pass	500k	16.594M	16.57M	16.594M	16.643M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.609M	17.656M	17.754M	17.656M
2437MHz	Pass	500k	17.681M	17.656M	17.754M	17.656M
2462MHz	Pass	500k	17.609M	17.656M	17.681M	17.583M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	36.377M	36.035M	36.377M	36.179M
2437MHz	Pass	500k	36.377M	36.035M	36.377M	36.179M
2452MHz	Pass	500k	36.377M	36.179M	36.522M	36.179M

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

### 802.11b\_Nss1,(1Mbps)\_2TX

EBW

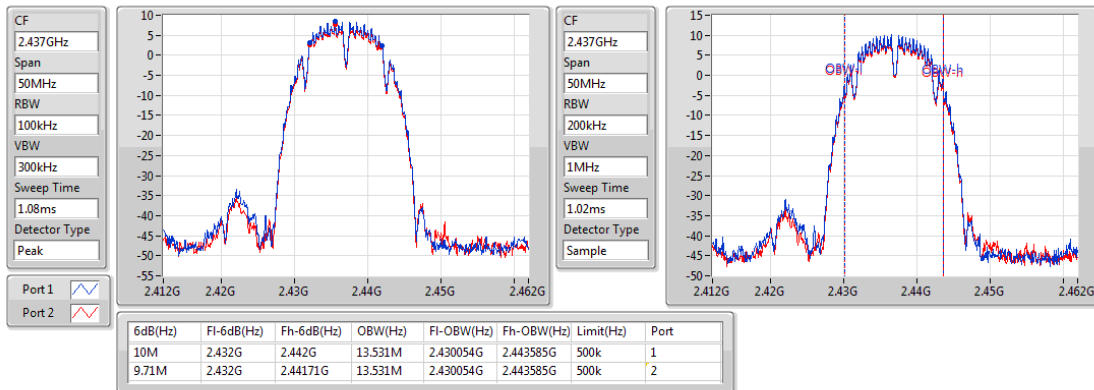
2412MHz



### 802.11b\_Nss1,(1Mbps)\_2TX

EBW

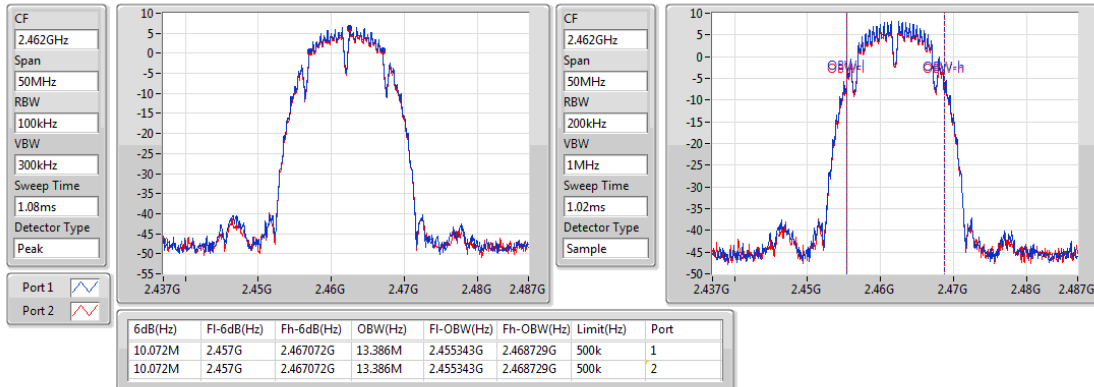
2437MHz



### 802.11b\_Nss1,(1Mbps)\_2TX

EBW

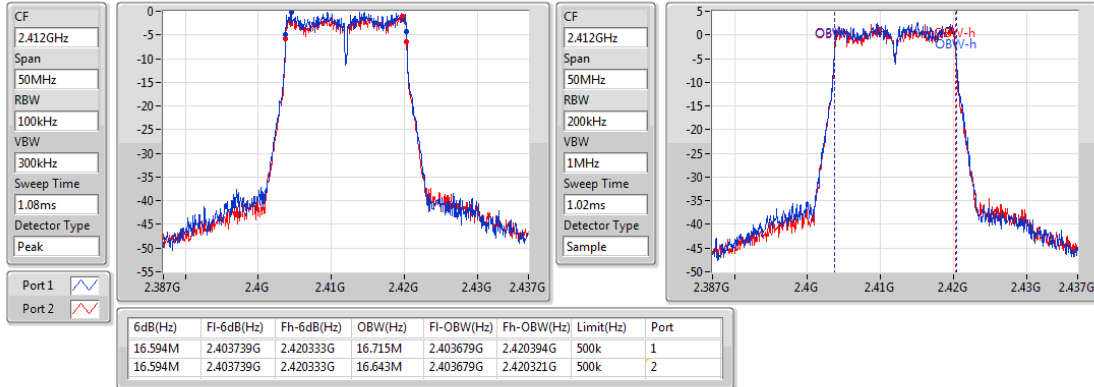
2462MHz



### 802.11g\_Nss1,(6Mbps)\_2TX

EBW

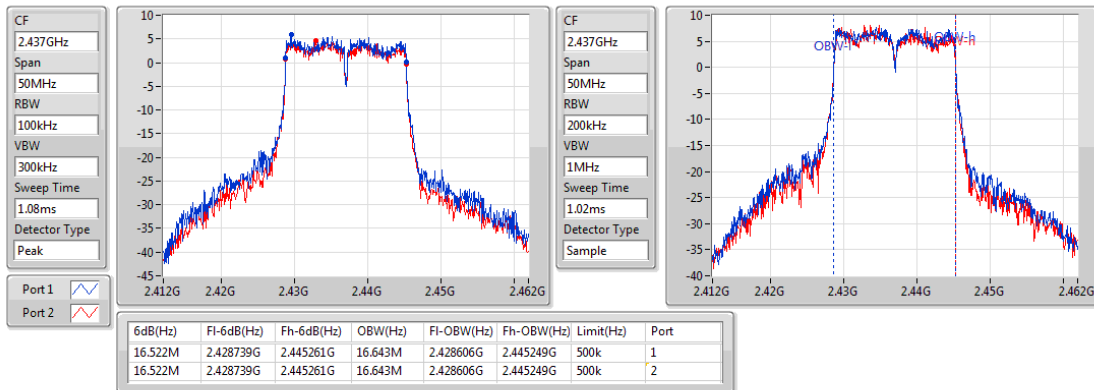
2412MHz



### 802.11g\_Nss1,(6Mbps)\_2TX

EBW

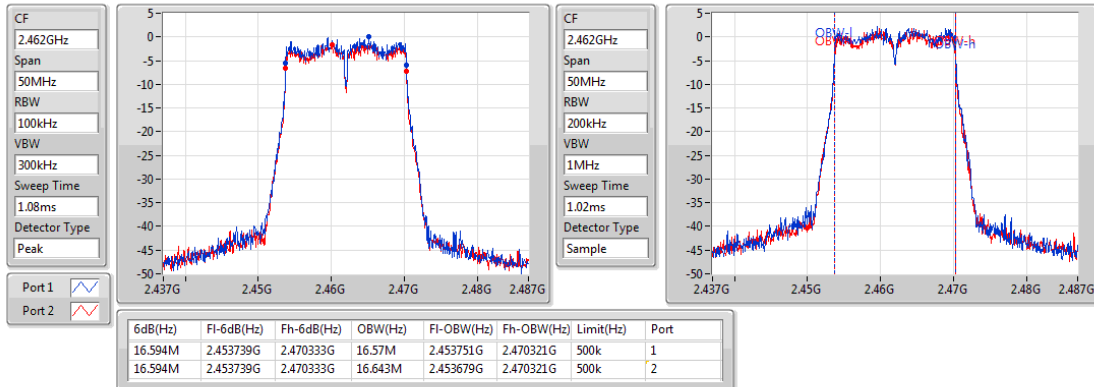
2437MHz



### 802.11g\_Nss1,(6Mbps)\_2TX

EBW

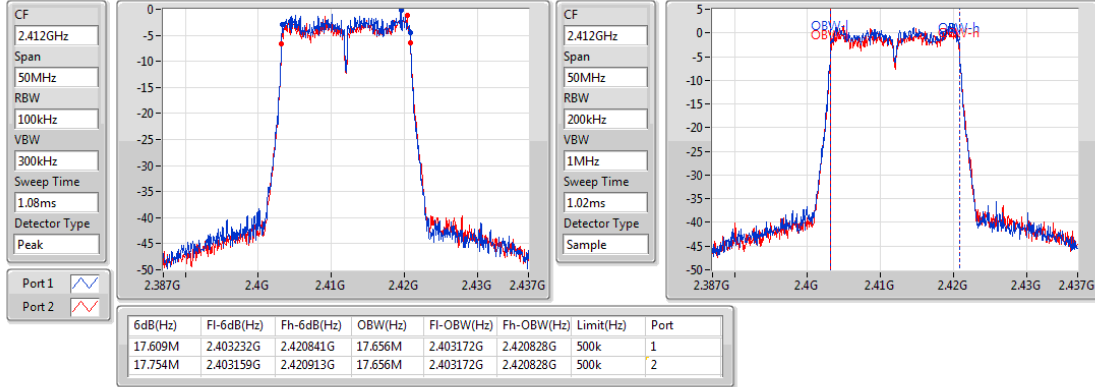
2462MHz



### 802.11n HT20\_Nss1,(MCS0)\_2TX

EBW

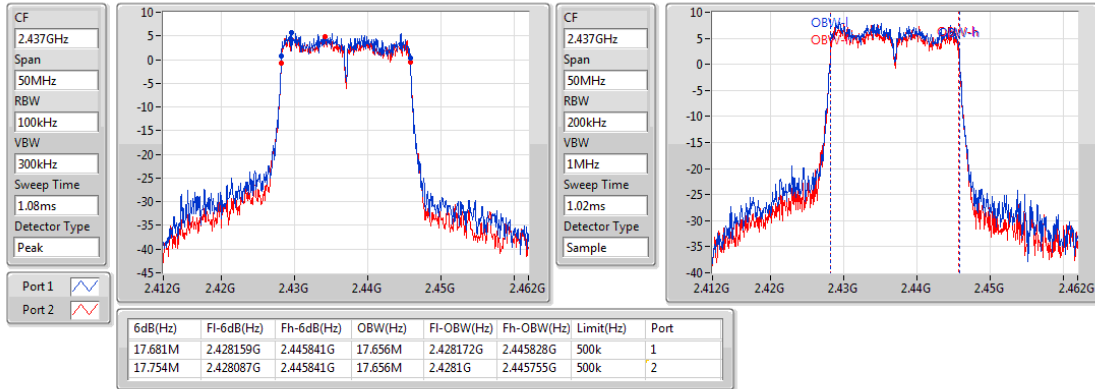
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### 802.11n HT20\_Nss1,(MCS0)\_2TX

EBW

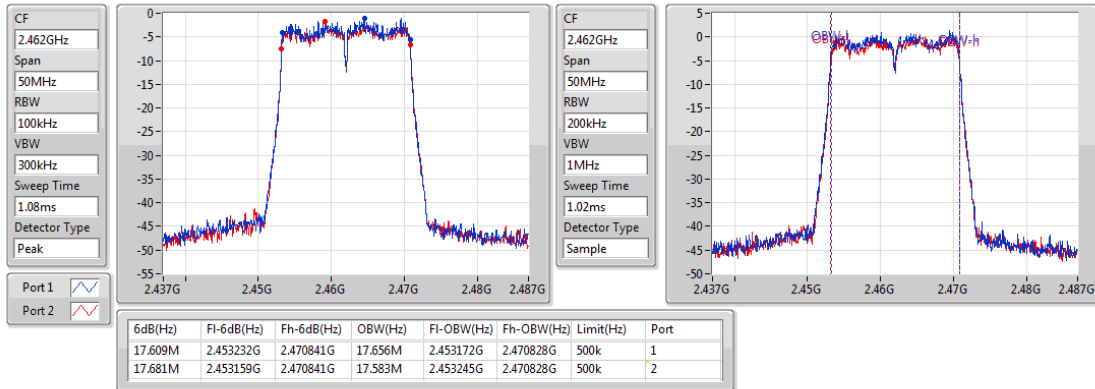
2437MHz



### 802.11n HT20\_Nss1,(MCS0)\_2TX

EBW

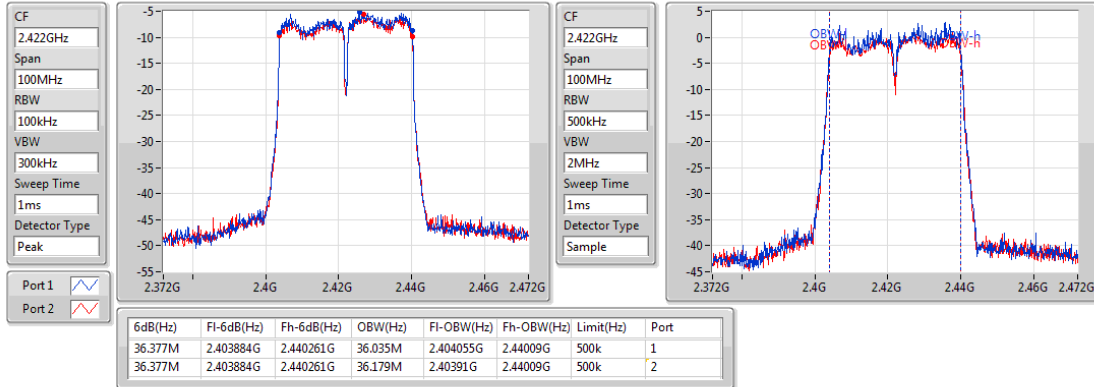
2462MHz



### 802.11n HT40\_Nss1,(MCS0)\_2TX

EBW

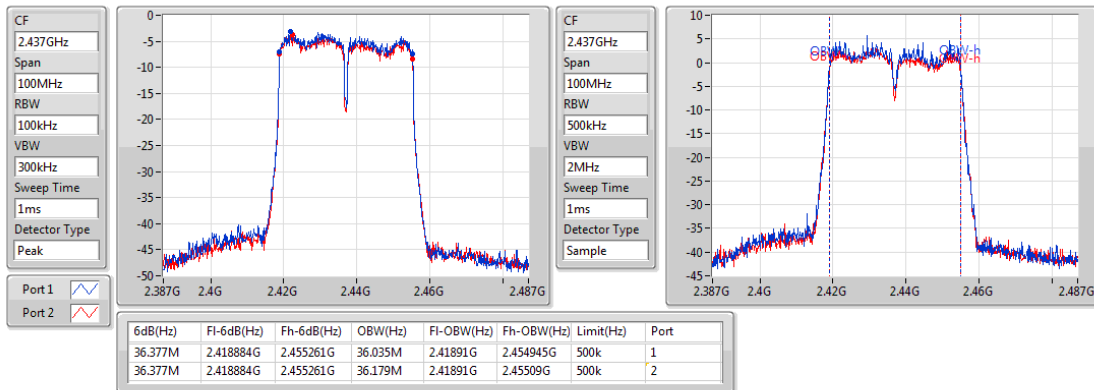
2422MHz



### 802.11n HT40\_Nss1,(MCS0)\_2TX

EBW

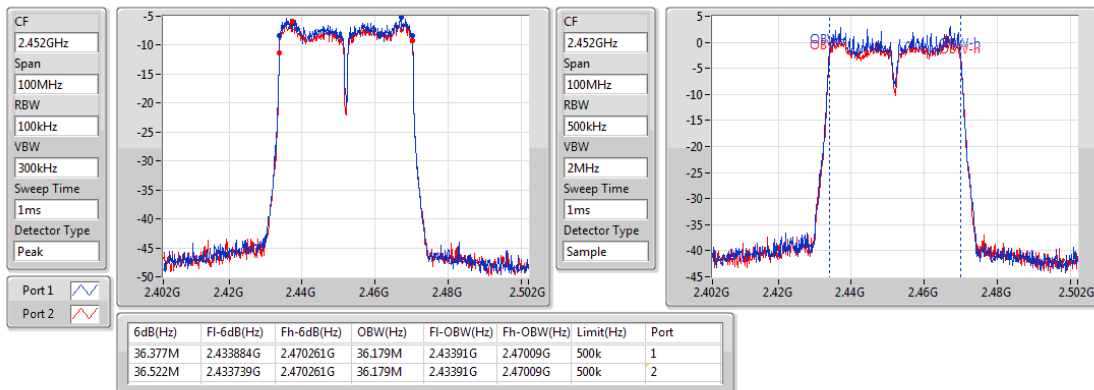
2437MHz



### 802.11n HT40\_Nss1,(MCS0)\_2TX

EBW

2452MHz



### 3.3 RF Output Power

#### 3.3.1 Limit of RF Output Power

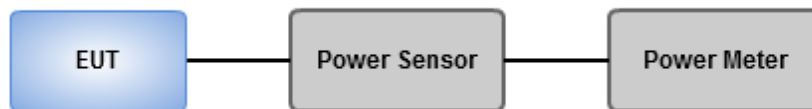
Conducted power shall not exceed 1Watt.

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

<b>Ambient Condition</b>	22°C / 66%	<b>Tested By</b>	Aska Huang
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#### Summary of Peak Conducted Output Power

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	24.35	0.27227
802.11g_Nss1,(6Mbps)_2TX	28.85	0.76736
802.11n HT20_Nss1,(MCS0)_2TX	28.83	0.76384
802.11n HT40_Nss1,(MCS0)_2TX	24.59	0.28774

#### 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	2.80	19.63	19.65	22.65	30.00	25.45	36.00
2437MHz	Pass	2.80	21.36	21.32	24.35	30.00	27.15	36.00
2462MHz	Pass	2.80	19.17	19.24	22.22	30.00	25.02	36.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	2.80	23.08	23.37	26.24	30.00	29.04	36.00
2437MHz	Pass	2.80	25.73	25.94	28.85	30.00	31.65	36.00
2462MHz	Pass	2.80	22.38	22.45	25.43	30.00	28.23	36.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	2.80	21.76	21.82	24.80	30.00	27.60	36.00
2437MHz	Pass	2.80	25.72	25.92	28.83	30.00	31.63	36.00
2462MHz	Pass	2.80	21.04	21.1	24.08	30.00	26.88	36.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2422MHz	Pass	2.80	19.78	19.86	22.83	30.00	25.63	36.00
2437MHz	Pass	2.80	21.63	21.53	24.59	30.00	27.39	36.00
2452MHz	Pass	2.80	19.41	19.45	22.44	30.00	25.24	36.00

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

### Summary of Conducted (Average) Output Power

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	21.81	0.15171
802.11g_Nss1,(6Mbps)_2TX	21.66	0.14655
802.11n HT20_Nss1,(MCS0)_2TX	21.88	0.15417
802.11n HT40_Nss1,(MCS0)_2TX	15.94	0.03926

### 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	2.80	17.11	17.12	20.13	-	22.93	-
2437MHz	Pass	2.80	18.81	18.78	21.81	-	24.61	-
2462MHz	Pass	2.80	16.65	16.72	19.70	-	22.50	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	2.80	13.19	13.29	16.25	-	19.05	-
2437MHz	Pass	2.80	18.63	18.67	21.66	-	24.46	-
2462MHz	Pass	2.80	12.63	12.73	15.69	-	18.49	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	2.80	12.35	12.55	15.46	-	18.26	-
2437MHz	Pass	2.80	18.81	18.93	21.88	-	24.68	-
2462MHz	Pass	2.80	11.85	11.92	14.90	-	17.70	-
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-
2422MHz	Pass	2.80	10.93	10.95	13.95	-	16.75	-
2437MHz	Pass	2.80	12.95	12.91	15.94	-	18.74	-
2452MHz	Pass	2.80	10.78	10.77	13.79	-	16.59	-

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

Note : Conducted average output power is for reference only



## 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

#### Peak PSD

1. Set the RBW = 3 kHz, VBW = 10 kHz.
2. Detector = Peak, Sweep time = auto couple.
3. Trace mode = max hold, allow trace to fully stabilize.
4. Use the peak marker function to determine the maximum amplitude level.

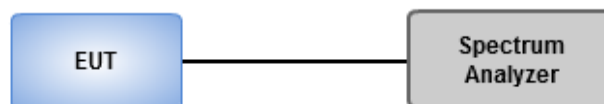
#### Average PSD, duty cycle $\geq$ 98%

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:  $\geq 10$  (number of measurement points in sweep) x (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

<b>Ambient Condition</b>	22°C / 66%	<b>Tested By</b>	Aska Huang
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#### Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-7.25
802.11g_Nss1,(6Mbps)_2TX	-5.41
802.11n HT20_Nss1,(MCS0)_2TX	-5.12
802.11n HT40_Nss1,(MCS0)_2TX	-13.08

RBW= 3 kHz

#### Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.81	-11.74	-12.20	-8.96	8.00
2437MHz	Pass	5.81	-9.96	-10.59	-7.25	8.00
2462MHz	Pass	5.81	-11.87	-12.46	-9.14	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.81	-13.24	-14.23	-10.70	8.00
2437MHz	Pass	5.81	-7.80	-8.87	-5.41	8.00
2462MHz	Pass	5.81	-13.98	-14.78	-11.94	8.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.81	-15.12	-15.27	-12.36	8.00
2437MHz	Pass	5.81	-7.72	-8.52	-5.12	8.00
2462MHz	Pass	5.81	-14.71	-15.66	-12.27	8.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.81	-18.85	-18.27	-15.82	8.00
2437MHz	Pass	5.81	-15.85	-16.04	-13.08	8.00
2452MHz	Pass	5.81	-17.54	-18.87	-15.17	8.00

DG = Directional Gain= 2.8 dBi + 10\*log(2/1) = 5.81 dBi;

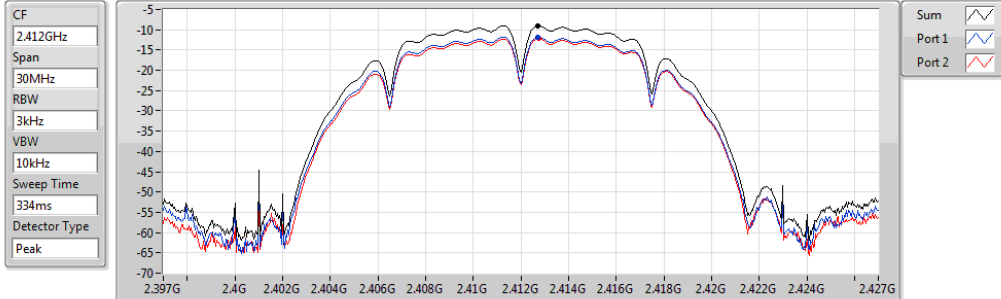
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;

RBW= 3 kHz

### 802.11b\_Nss1,(1Mbps)\_2TX

PSD

2412MHz

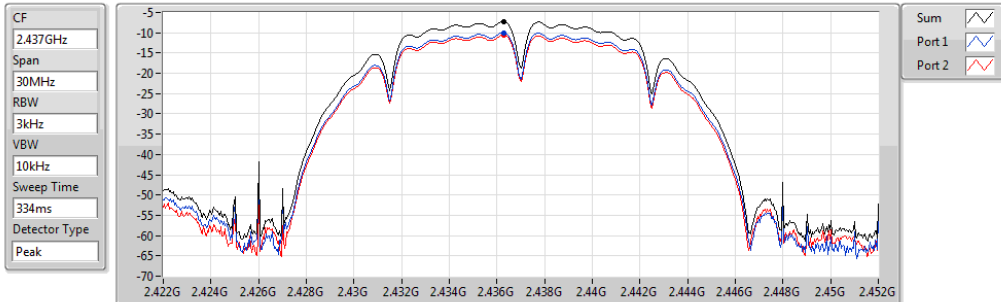


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.96	-8.96	-11.74	-12.20

### 802.11b\_Nss1,(1Mbps)\_2TX

PSD

2437MHz

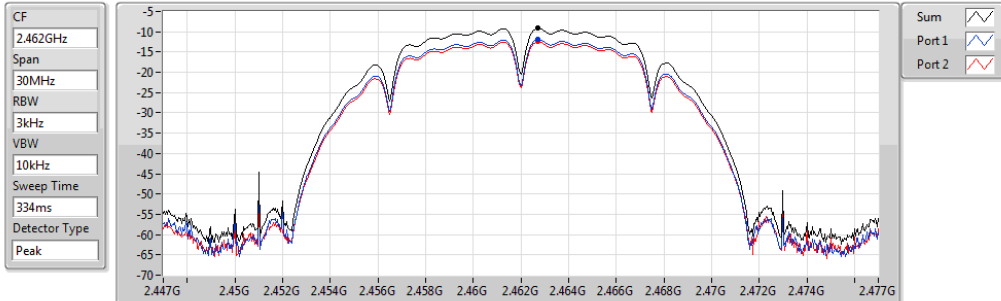


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.25	-7.25	-9.96	-10.59

### 802.11b\_Nss1,(1Mbps)\_2TX

PSD

2462MHz

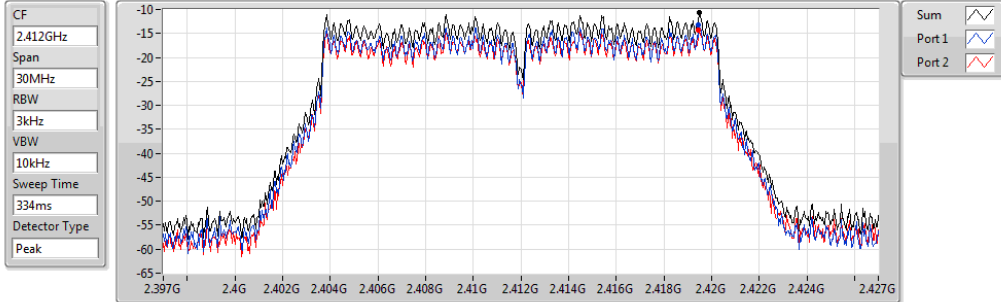


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-9.14	-9.14	-11.87	-12.46

### 802.11g\_Nss1,(6Mbps)\_2TX

PSD

2412MHz

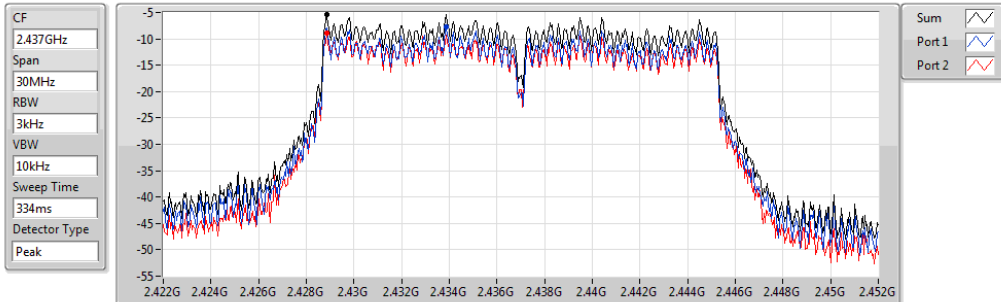


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.70	-10.70	-13.24	-14.23

### 802.11g\_Nss1,(6Mbps)\_2TX

PSD

2437MHz

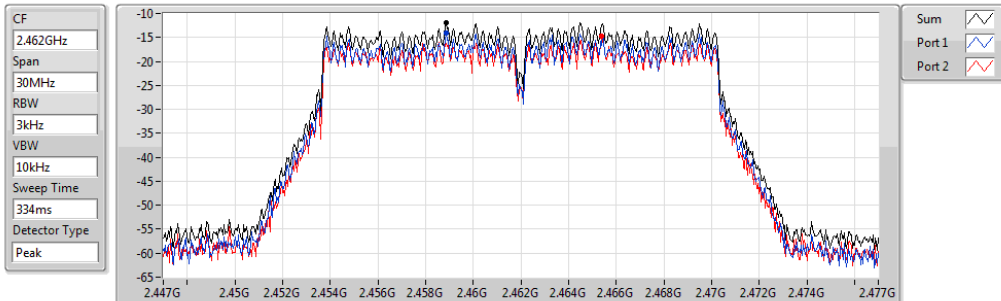


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.41	-5.41	-7.80	-8.87

### 802.11g\_Nss1,(6Mbps)\_2TX

PSD

2462MHz

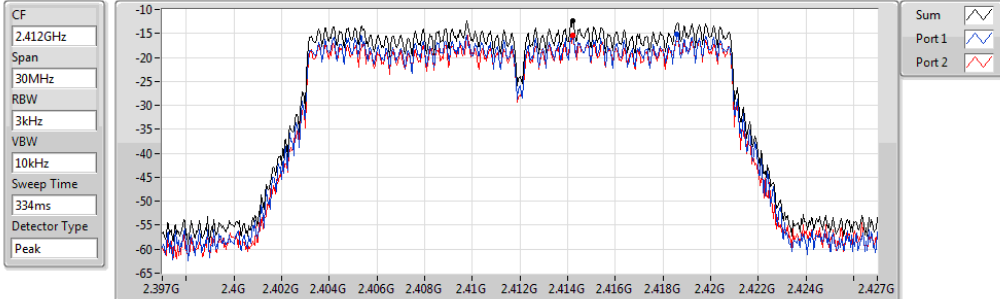


Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-11.94	-11.94	-13.98	-14.78

### 802.11n HT20\_Nss1,(MCS0)\_2TX

PSD

2412MHz

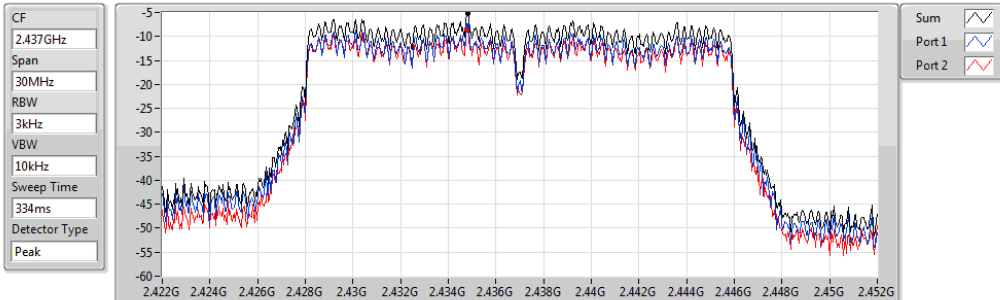


Sum	PD	Port 1	Port 2
(dBm/3kHz)	(dBm/3kHz)	(dBm/3kHz)	(dBm/3kHz)
-12.36	-12.36	-15.12	-15.27

### 802.11n HT20\_Nss1,(MCS0)\_2TX

PSD

2437MHz

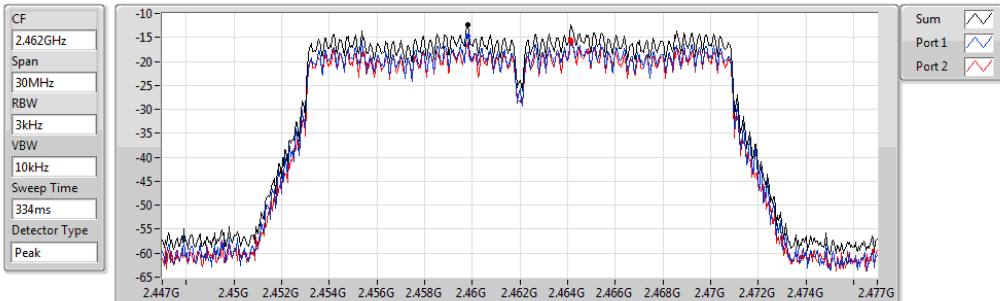


Sum	PD	Port 1	Port 2
(dBm/3kHz)	(dBm/3kHz)	(dBm/3kHz)	(dBm/3kHz)
-5.12	-5.12	-7.72	-8.52

### 802.11n HT20\_Nss1,(MCS0)\_2TX

PSD

2462MHz



Sum	PD	Port 1	Port 2
(dBm/3kHz)	(dBm/3kHz)	(dBm/3kHz)	(dBm/3kHz)
-12.27	-12.27	-14.71	-15.66

### 802.11n HT40\_Nss1,(MCS0)\_2TX

PSD

2422MHz

CF  
2.422GHz

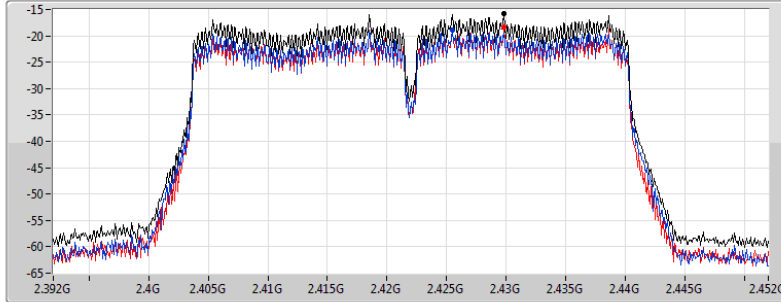
Span  
60MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
667ms

Detector Type  
Peak



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-15.82	-15.82	-18.85	-18.27

### 802.11n HT40\_Nss1,(MCS0)\_2TX

PSD

2437MHz

CF  
2.437GHz

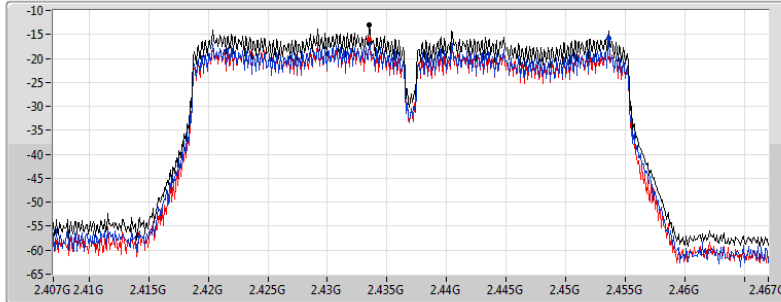
Span  
60MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
667ms

Detector Type  
Peak



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.08	-13.08	-15.85	-16.04

### 802.11n HT40\_Nss1,(MCS0)\_2TX

PSD

2452MHz

CF  
2.452GHz

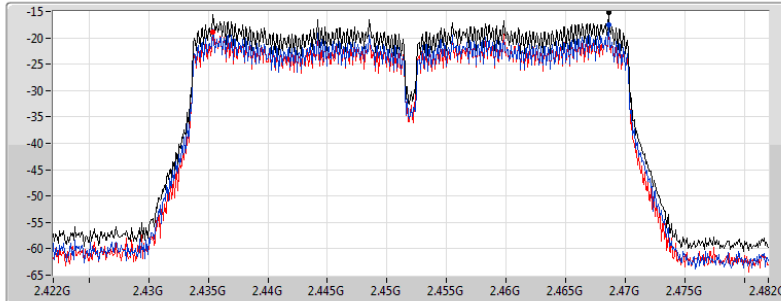
Span  
60MHz

RBW  
3kHz

VBW  
10kHz

Sweep Time  
667ms

Detector Type  
Peak



Sum

Port 1

Port 2

Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-15.17	-15.17	-17.54	-18.87

## 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

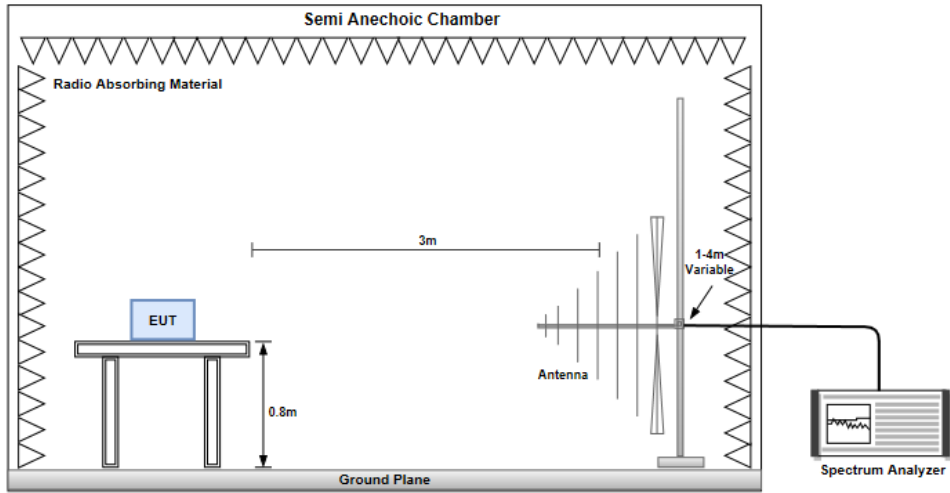
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission 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:

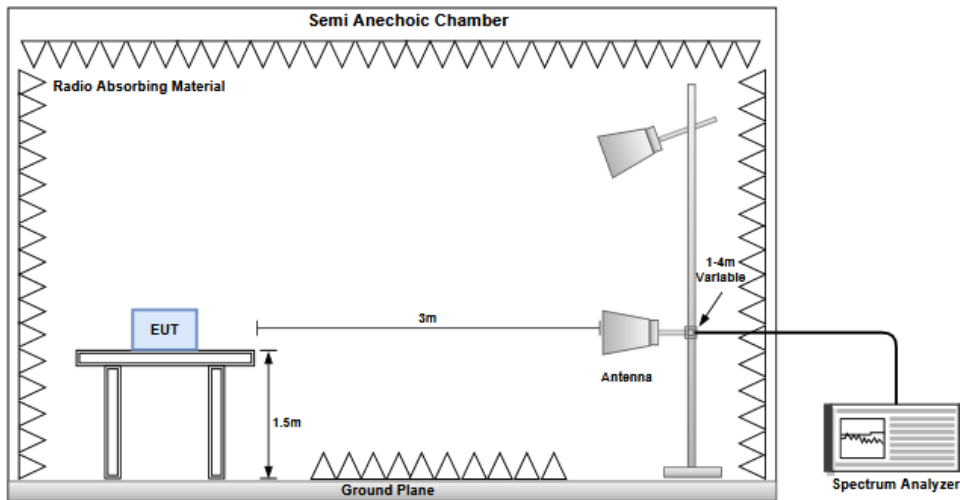
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

### 3.5.3 Test Setup

#### Radiated Emissions below 1 GHz



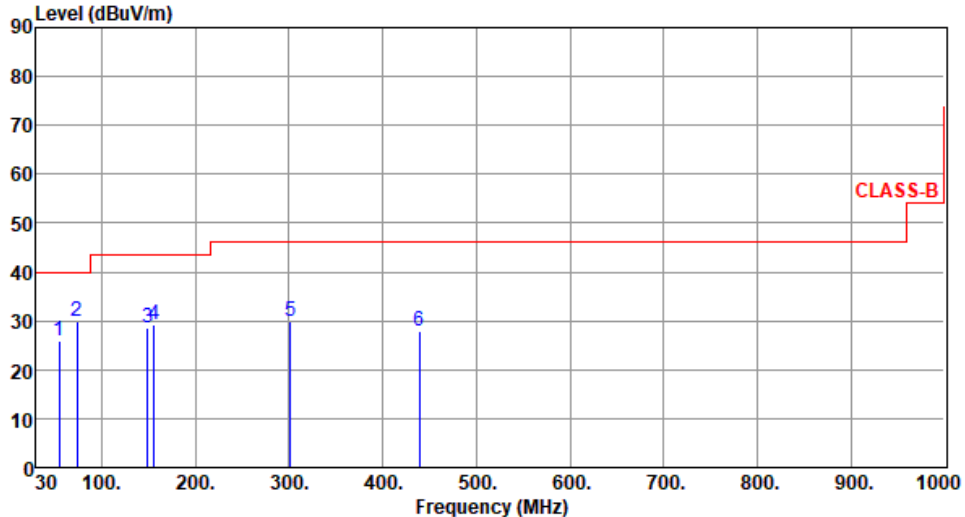
#### Radiated Emissions above 1 GHz





**Configuration 1**

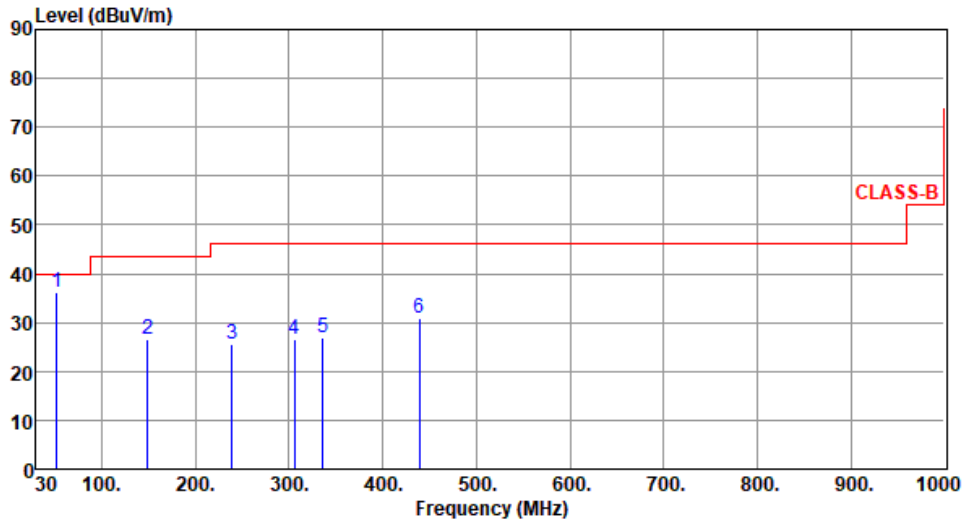
**3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)**

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2437						
<b>Polarization</b>	Horizontal								
Test By :Brad Wu      Temperature(°C):23      Humidity(%):64									
 <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (30 to 1000). A red step function represents the CLASS-B emission limit. Six blue vertical lines indicate measured emission peaks at frequencies 1, 2, 3, 4, 5, and 6. The peaks are labeled with their respective numbers and their levels are approximately 26, 29, 29, 29, 29, and 28 dBuV/m respectively.</p>									
	Freq.	Emission level	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	dBuV/m	dBuV/m	dB	reading	dB/m		High	Table
					dBuV			cm	deg
1	54.25	25.86	40.00	-14.14	34.84	-8.98	Peak	---	---
2	73.65	29.77	40.00	-10.23	41.63	-11.86	Peak	---	---
3	149.31	28.64	43.50	-14.86	37.69	-9.05	Peak	---	---
4	156.10	29.17	43.50	-14.33	37.87	-8.70	Peak	---	---
5	301.60	29.77	46.00	-16.23	37.86	-8.09	Peak	---	---
6	439.34	28.03	46.00	-17.97	32.61	-4.58	Peak	---	---

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

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):23      Humidity(%):64



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	52.31	36.32	40.00	-3.68	45.08	-8.76	Peak	---	---
2	149.31	26.64	43.50	-16.86	35.69	-9.05	Peak	---	---
3	239.52	25.42	46.00	-20.58	35.86	-10.44	Peak	---	---
4	305.48	26.41	46.00	-19.59	34.40	-7.99	Peak	---	---
5	336.52	26.87	46.00	-19.13	34.19	-7.32	Peak	---	---
6	439.34	30.77	46.00	-15.23	35.35	-4.58	Peak	---	---

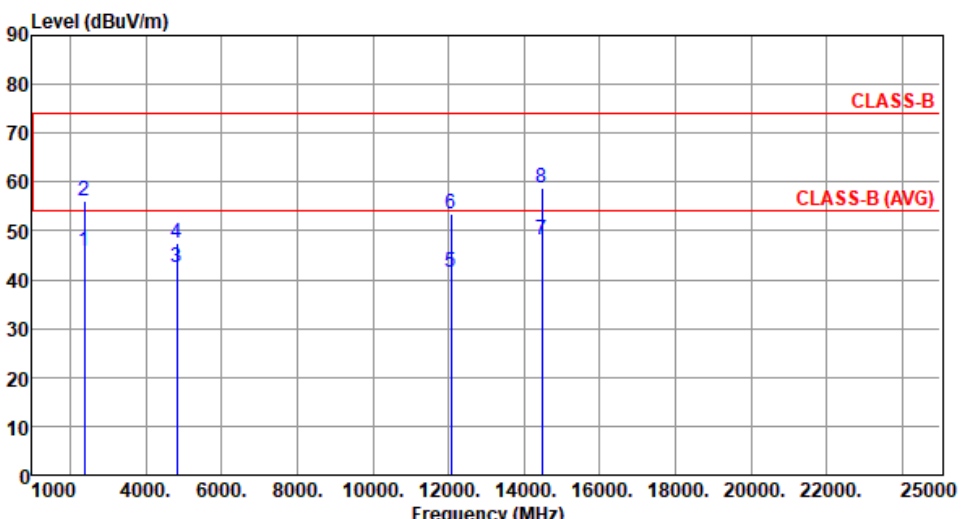
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

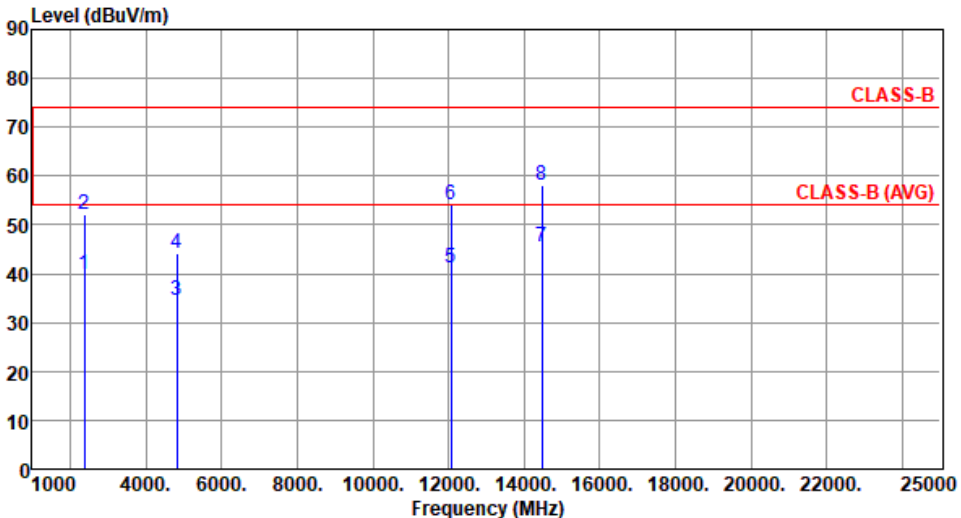
\*Factor includes antenna factor , cable loss and amplifier gain

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.

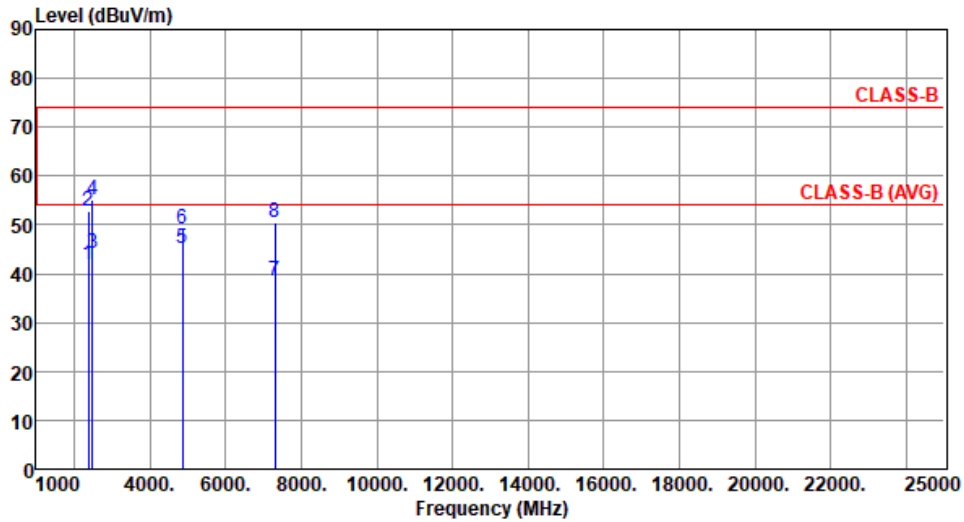
### 3.5.5 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2412						
<b>Polarization</b>	Horizontal								
Test By :Brad Wu      Temperature(°C):24      Humidity(%):66									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	45.72	54.00	-8.28	48.47	-2.75	Average	162	166
2	2390.00	55.99	74.00	-18.01	58.74	-2.75	Peak	162	166
3	4824.00	42.45	54.00	-11.55	38.31	4.14	Average	116	231
4	4824.00	47.48	74.00	-26.52	43.34	4.14	Peak	116	231
5	12060.00	41.55	54.00	-12.45	27.76	13.79	Average	100	15
6	12060.00	53.58	74.00	-20.42	39.79	13.79	Peak	100	15
7	14472.00	48.09	54.00	-5.91	30.60	17.49	Average	147	246
8	14472.00	58.84	74.00	-15.16	41.35	17.49	Peak	147	246
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)  *Factor includes antenna factor , cable loss and amplifier gain  Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2412						
<b>Polarization</b>	Vertical								
Test By	:Brad Wu	Temperature(°C):24	Humidity(%) :66						
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	39.72	54.00	-14.28	42.47	-2.75	Average	100	324
2	2390.00	52.06	74.00	-21.94	54.81	-2.75	Peak	100	324
3	4824.00	34.49	54.00	-19.51	30.35	4.14	Average	100	175
4	4824.00	44.15	74.00	-29.85	40.01	4.14	Peak	100	175
5	12060.00	41.16	54.00	-12.84	27.37	13.79	Average	100	14
6	12060.00	54.23	74.00	-19.77	40.44	13.79	Peak	100	14
7	14472.00	45.64	54.00	-8.36	28.15	17.49	Average	100	5
8	14472.00	58.07	74.00	-15.93	40.58	17.49	Peak	100	5
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Horizontal		

Test By :Roger Lu      Temperature(°C):24      Humidity(%):66



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	41.76	54.00	-12.24	44.51	-2.75	Average	161	164
2	2390.00	52.92	74.00	-21.08	55.67	-2.75	Peak	161	164
3	2483.50	44.28	54.00	-9.72	46.98	-2.70	Average	161	164
4	2483.50	55.16	74.00	-18.84	57.86	-2.70	Peak	161	164
5	4874.00	45.07	54.00	-8.93	40.94	4.13	Average	117	226
6	4874.00	49.19	74.00	-24.81	45.06	4.13	Peak	117	226
7	7311.00	38.38	54.00	-15.62	29.10	9.28	Average	100	234
8	7311.00	50.54	74.00	-23.46	41.26	9.28	Peak	100	234

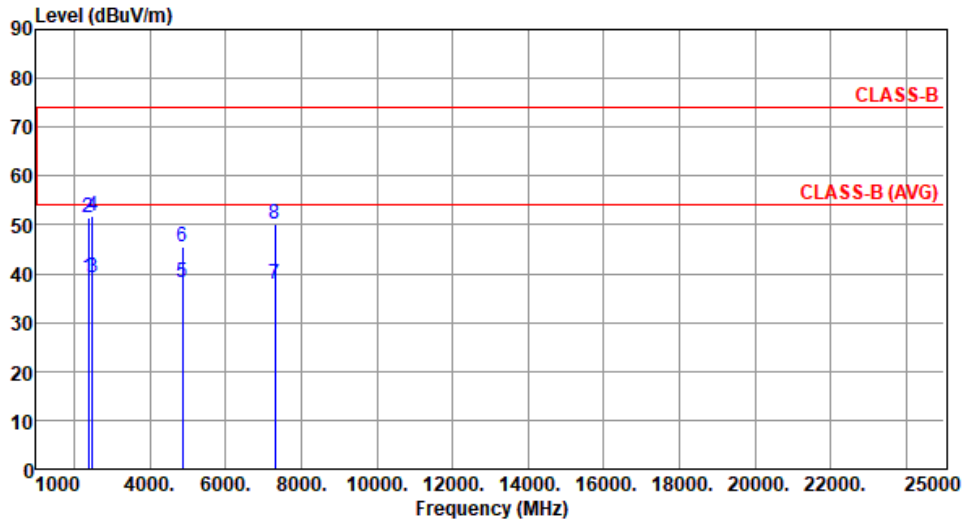
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Vertical		

Test By :Roger Lu      Temperature(°C):24      Humidity(%):66



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	39.19	54.00	-14.81	41.94	-2.75	Average	105	316
2	2390.00	51.37	74.00	-22.63	54.12	-2.75	Peak	105	316
3	2483.50	39.33	54.00	-14.67	42.03	-2.70	Average	105	316
4	2483.50	51.91	74.00	-22.09	54.61	-2.70	Peak	105	316
5	4874.00	38.05	54.00	-15.95	33.92	4.13	Average	110	228
6	4874.00	45.56	74.00	-28.44	41.43	4.13	Peak	110	228
7	7311.00	37.93	54.00	-16.07	28.65	9.28	Average	100	82
8	7311.00	50.01	74.00	-23.99	40.73	9.28	Peak	100	82

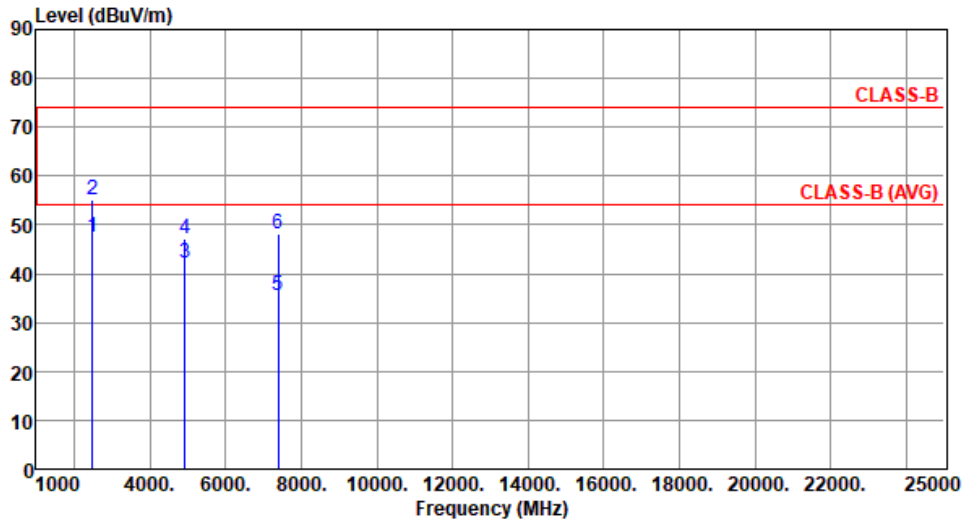
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2462
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66



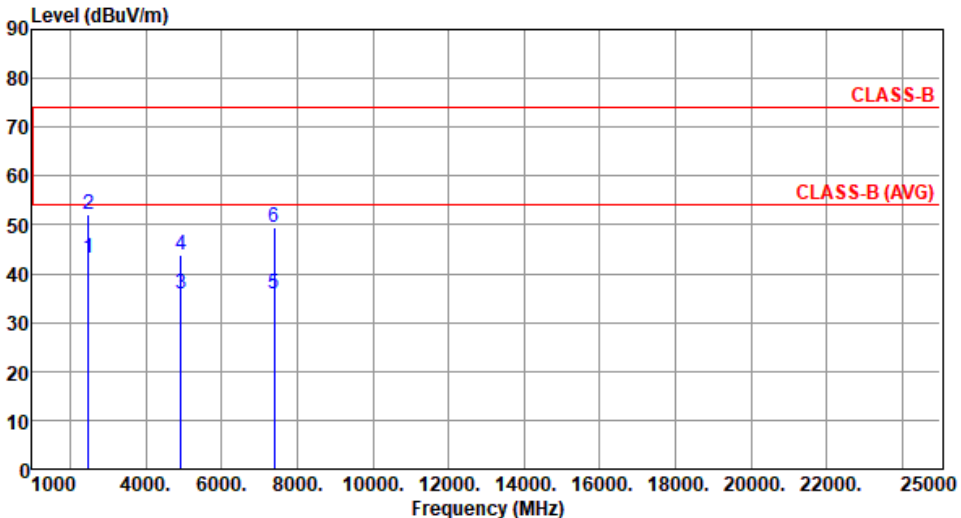
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	47.47	54.00	-6.53	50.17	-2.70	Average	173	192
2	2483.50	55.23	74.00	-18.77	57.93	-2.70	Peak	173	192
3	4924.00	42.33	54.00	-11.67	38.27	4.06	Average	117	231
4	4924.00	47.06	74.00	-26.94	43.00	4.06	Peak	117	231
5	7386.00	35.64	54.00	-18.36	26.39	9.25	Average	100	219
6	7386.00	48.13	74.00	-25.87	38.88	9.25	Peak	100	219

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

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2462
<b>Polarization</b>	Vertical		
Test By :Brad Wu		Temperature(°C):24	Humidity(%):66

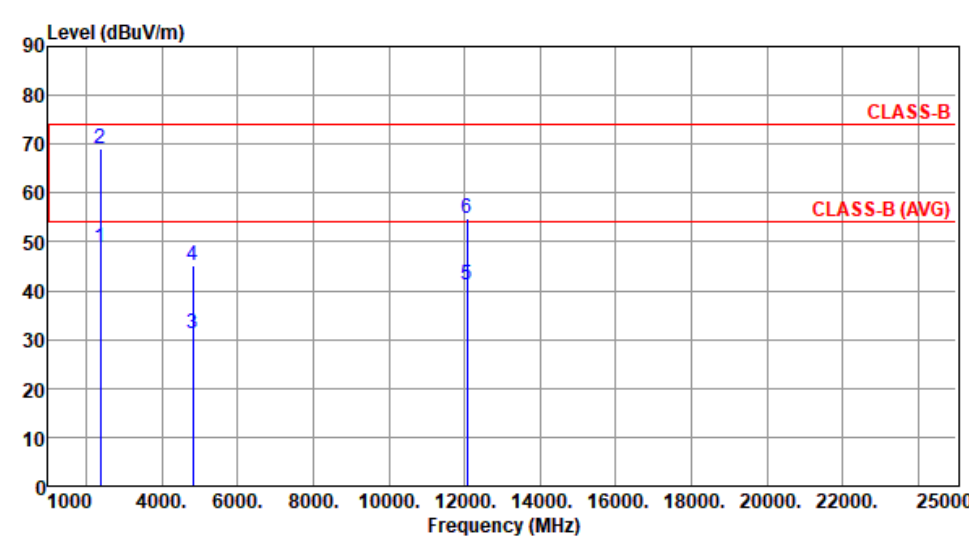
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	43.10	54.00	-10.90	45.80	-2.70	Average	100	329
2	2483.50	52.10	74.00	-21.90	54.80	-2.70	Peak	100	329
3	4924.00	35.95	54.00	-18.05	31.89	4.06	Average	105	229
4	4924.00	43.73	74.00	-30.27	39.67	4.06	Peak	105	229
5	7386.00	35.86	54.00	-18.14	26.61	9.25	Average	100	230
6	7386.00	49.43	74.00	-24.57	40.18	9.25	Peak	100	230

Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

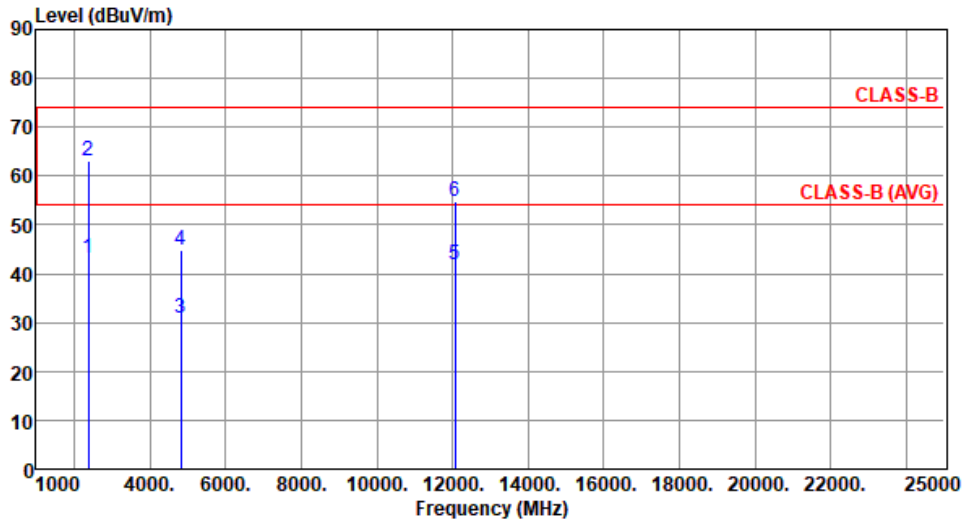


### 3.5.6 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2412						
<b>Polarization</b>	Horizontal								
Test By :Brad Wu      Temperature(°C):24      Humidity(%):66									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	48.95	54.00	-5.05	51.70	-2.75	Average	135	197
2	2390.00	68.93	74.00	-5.07	71.68	-2.75	Peak	135	197
3	4824.00	31.33	54.00	-22.67	27.19	4.14	Average	100	235
4	4824.00	45.11	74.00	-28.89	40.97	4.14	Peak	100	235
5	12060.00	41.24	54.00	-12.76	27.45	13.79	Average	100	231
6	12060.00	54.92	74.00	-19.08	41.13	13.79	Peak	100	231
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2412
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	43.06	54.00	-10.94	45.81	-2.75	Average	100	324
2	2390.00	63.06	74.00	-10.94	65.81	-2.75	Peak	100	324
3	4824.00	30.89	54.00	-23.11	26.75	4.14	Average	100	26
4	4824.00	44.89	74.00	-29.11	40.75	4.14	Peak	100	26
5	12060.00	41.92	54.00	-12.08	28.13	13.79	Average	100	24
6	12060.00	54.94	74.00	-19.06	41.15	13.79	Peak	100	24

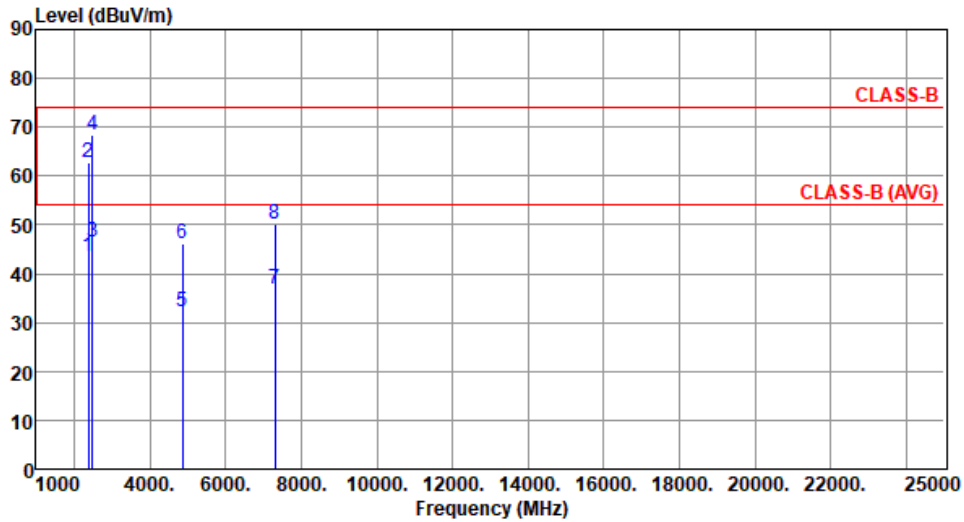
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	43.42	54.00	-10.58	46.17	-2.75	Average	132	195
2	2390.00	62.81	74.00	-11.19	65.56	-2.75	Peak	132	195
3	2483.50	46.45	54.00	-7.55	49.15	-2.70	Average	132	195
4	2483.50	68.50	74.00	-5.50	71.20	-2.70	Peak	132	195
5	4874.00	32.37	54.00	-21.63	28.24	4.13	Average	123	226
6	4874.00	46.17	74.00	-27.83	42.04	4.13	Peak	123	226
7	7311.00	36.83	54.00	-17.17	27.55	9.28	Average	100	42
8	7311.00	50.14	74.00	-23.86	40.86	9.28	Peak	100	42

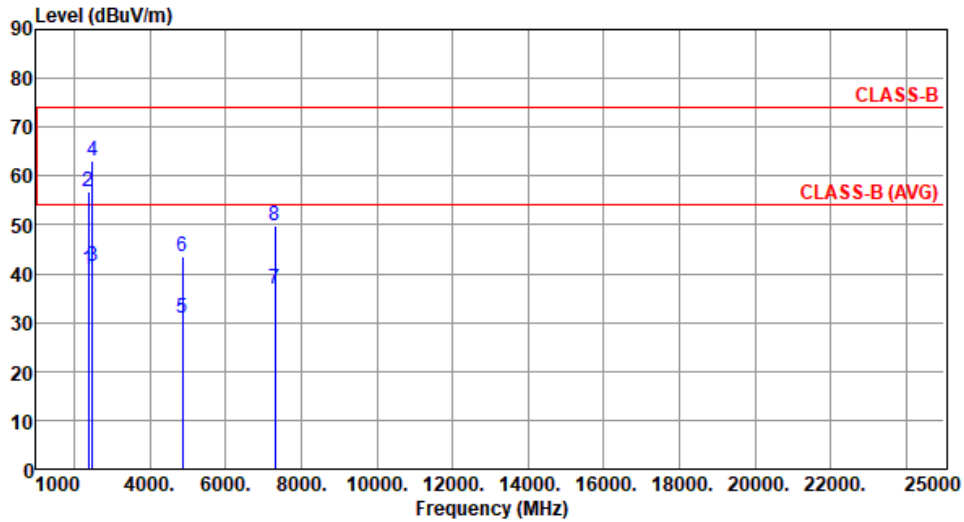
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	40.85	54.00	-13.15	43.60	-2.75	Average	105	324
2	2390.00	56.64	74.00	-17.36	59.39	-2.75	Peak	105	324
3	2483.50	41.52	54.00	-12.48	44.22	-2.70	Average	105	324
4	2483.50	63.00	74.00	-11.00	65.70	-2.70	Peak	105	324
5	4874.00	30.88	54.00	-23.12	26.75	4.13	Average	100	19
6	4874.00	43.43	74.00	-30.57	39.30	4.13	Peak	100	19
7	7311.00	36.76	54.00	-17.24	27.48	9.28	Average	100	24
8	7311.00	49.81	74.00	-24.19	40.53	9.28	Peak	100	24

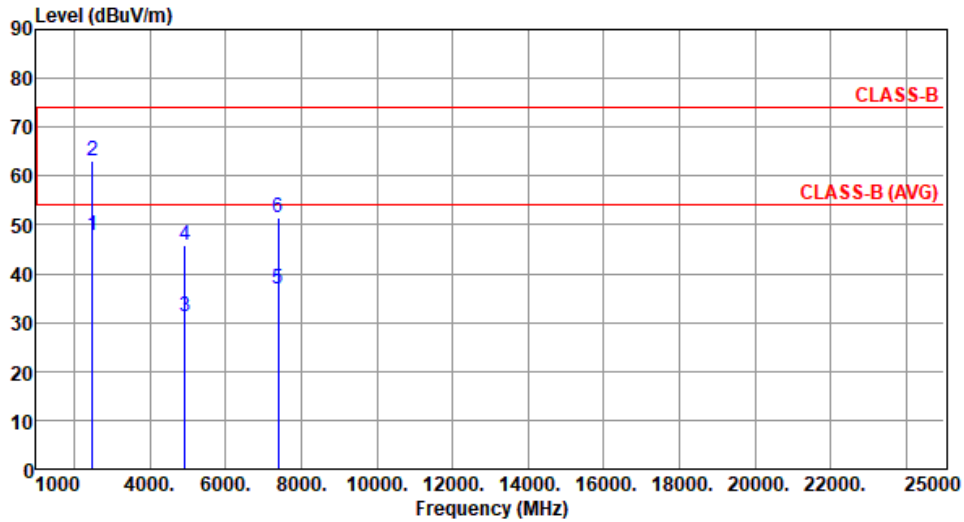
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2462
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	47.84	54.00	-6.16	50.54	-2.70	Average	131	198
2	2483.50	63.08	74.00	-10.92	65.78	-2.70	Peak	131	198
3	4924.00	31.35	54.00	-22.65	27.29	4.06	Average	100	235
4	4924.00	45.94	74.00	-28.06	41.88	4.06	Peak	100	235
5	7386.00	36.83	54.00	-17.17	27.58	9.25	Average	100	225
6	7386.00	51.32	74.00	-22.68	42.07	9.25	Peak	100	225

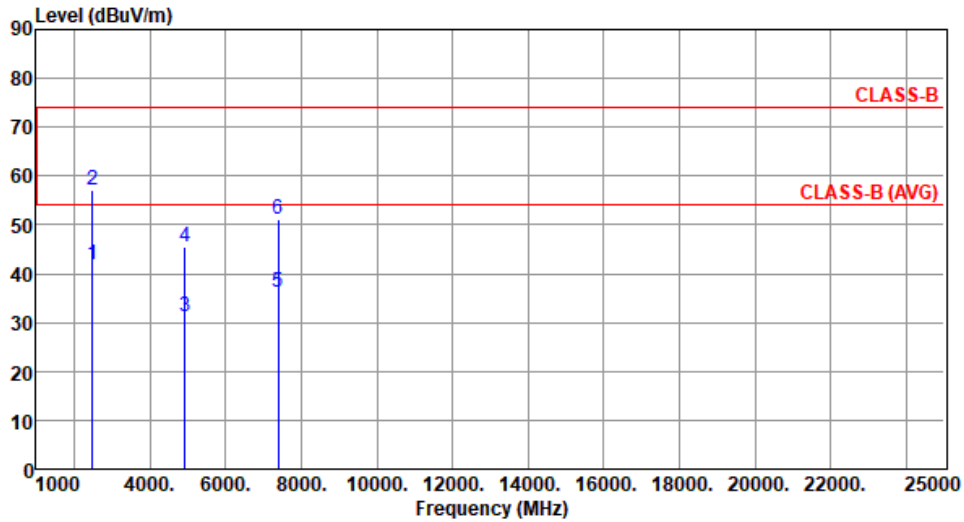
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2462
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66



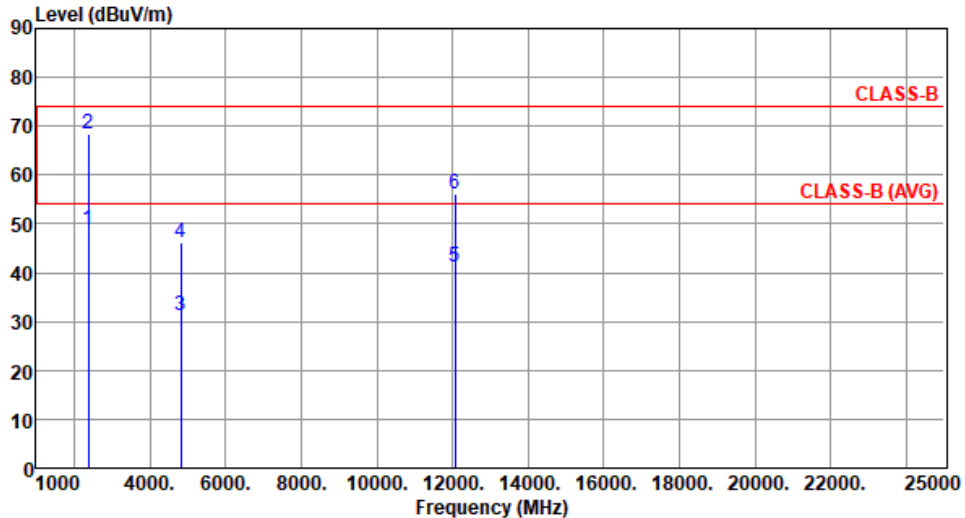
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	41.77	54.00	-12.23	44.47	-2.70	Average	100	329
2	2483.50	57.10	74.00	-16.90	59.80	-2.70	Peak	100	329
3	4924.00	31.06	54.00	-22.94	27.00	4.06	Average	100	15
4	4924.00	45.65	74.00	-28.35	41.59	4.06	Peak	100	15
5	7386.00	36.32	54.00	-17.68	27.07	9.25	Average	100	11
6	7386.00	51.18	74.00	-22.82	41.93	9.25	Peak	100	11

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

\*Factor includes antenna factor , cable loss and amplifier gain

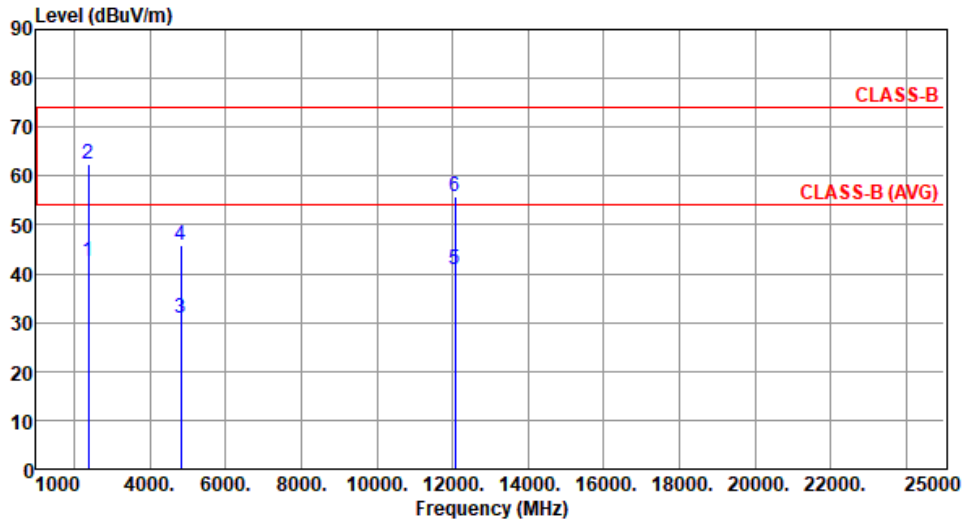
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

### 3.5.7 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

<b>Modulation</b>	HT20		<b>Test Freq. (MHz)</b>	2412					
<b>Polarization</b>	Horizontal								
Test By : Brad Wu		Temperature(°C): 24		Humidity(%): 66					
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	48.94	54.00	-5.06	51.69	-2.75	Average	132	195
2	2390.00	68.32	74.00	-5.68	71.07	-2.75	Peak	132	195
3	4824.00	31.21	54.00	-22.79	27.07	4.14	Average	100	234
4	4824.00	46.11	74.00	-27.89	41.97	4.14	Peak	100	234
5	12060.00	41.15	54.00	-12.85	27.36	13.79	Average	100	239
6	12060.00	56.05	74.00	-17.95	42.26	13.79	Peak	100	239
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *Factor includes antenna factor , cable loss and amplifier gain            Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

<b>Modulation</b>	HT20	<b>Test Freq. (MHz)</b>	2412
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	42.46	54.00	-11.54	45.21	-2.75	Average	100	330
2	2390.00	62.42	74.00	-11.58	65.17	-2.75	Peak	100	330
3	4824.00	31.00	54.00	-23.00	26.86	4.14	Average	100	23
4	4824.00	46.00	74.00	-28.00	41.86	4.14	Peak	100	23
5	12060.00	40.97	54.00	-13.03	27.18	13.79	Average	100	21
6	12060.00	55.95	74.00	-18.05	42.16	13.79	Peak	100	21

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

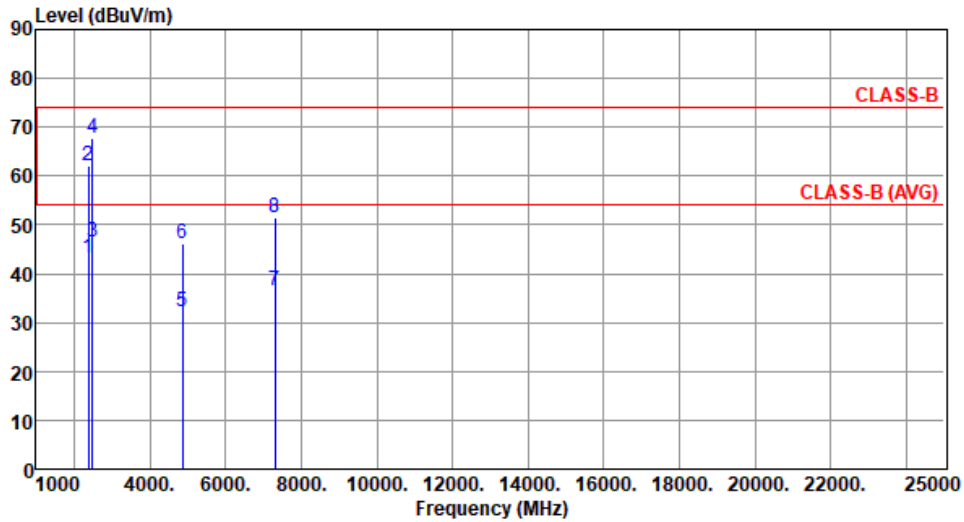
\*Factor includes antenna factor , cable loss and amplifier gain

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



<b>Modulation</b>	HT20	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	43.33	54.00	-10.67	46.08	-2.75	Average	131	197
2	2390.00	62.03	74.00	-11.97	64.78	-2.75	Peak	131	197
3	2483.50	46.64	54.00	-7.36	49.34	-2.70	Average	131	197
4	2483.50	67.67	74.00	-6.33	70.37	-2.70	Peak	131	197
5	4874.00	32.12	54.00	-21.88	27.99	4.13	Average	100	247
6	4874.00	46.10	74.00	-27.90	41.97	4.13	Peak	100	247
7	7311.00	36.65	54.00	-17.35	27.37	9.28	Average	100	250
8	7311.00	51.59	74.00	-22.41	42.31	9.28	Peak	100	250

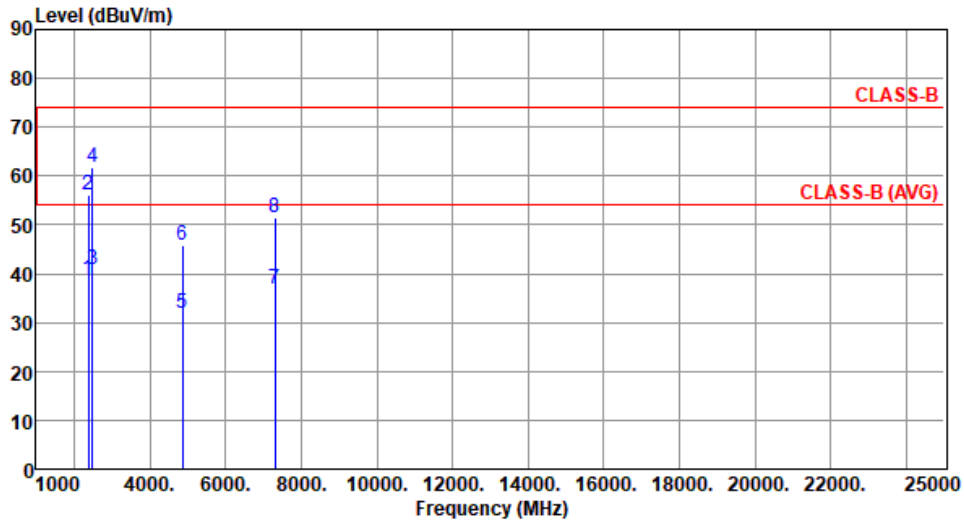
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	HT20	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	38.72	54.00	-15.28	41.47	-2.75	Average	100	341
2	2390.00	56.06	74.00	-17.94	58.81	-2.75	Peak	100	341
3	2483.50	40.77	54.00	-13.23	43.47	-2.70	Average	100	341
4	2483.50	61.77	74.00	-12.23	64.47	-2.70	Peak	100	341
5	4874.00	31.87	54.00	-22.13	27.74	4.13	Average	100	11
6	4874.00	45.88	74.00	-28.12	41.75	4.13	Peak	100	11
7	7311.00	36.88	54.00	-17.12	27.60	9.28	Average	100	19
8	7311.00	51.49	74.00	-22.51	42.21	9.28	Peak	100	19

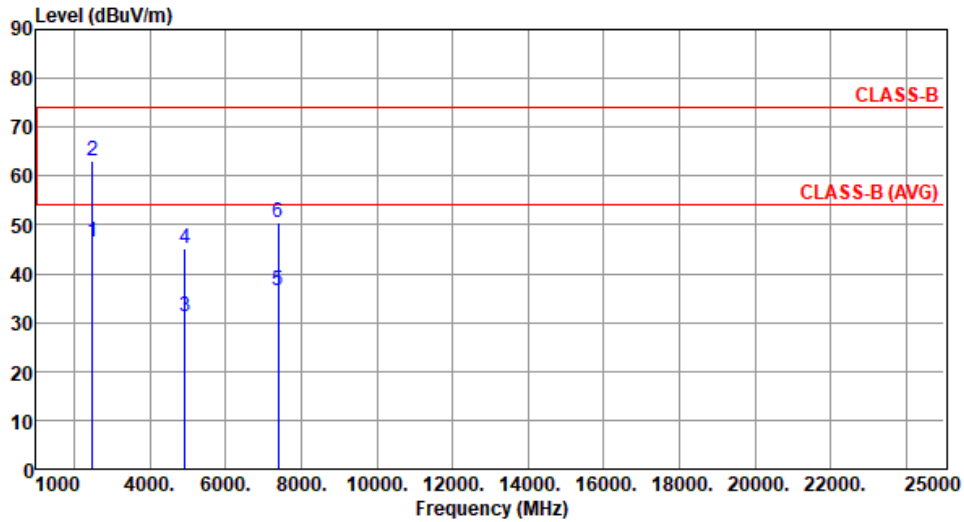
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	HT20	<b>Test Freq. (MHz)</b>	2462
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66

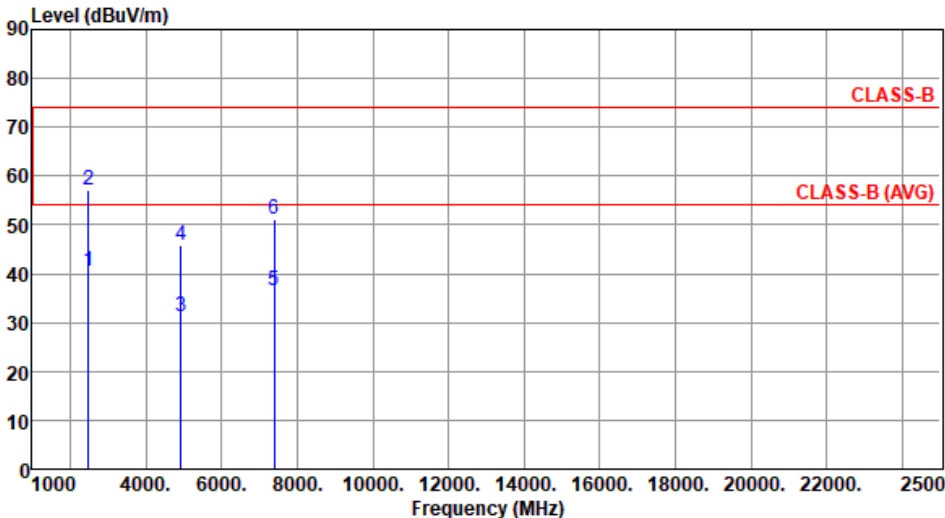


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	46.51	54.00	-7.49	49.21	-2.70	Average	132	198
2	2483.50	63.10	74.00	-10.90	65.80	-2.70	Peak	132	198
3	4924.00	31.24	54.00	-22.76	27.18	4.06	Average	100	239
4	4924.00	45.27	74.00	-28.73	41.21	4.06	Peak	100	239
5	7386.00	36.63	54.00	-17.37	27.38	9.25	Average	100	244
6	7386.00	50.64	74.00	-23.36	41.39	9.25	Peak	100	244

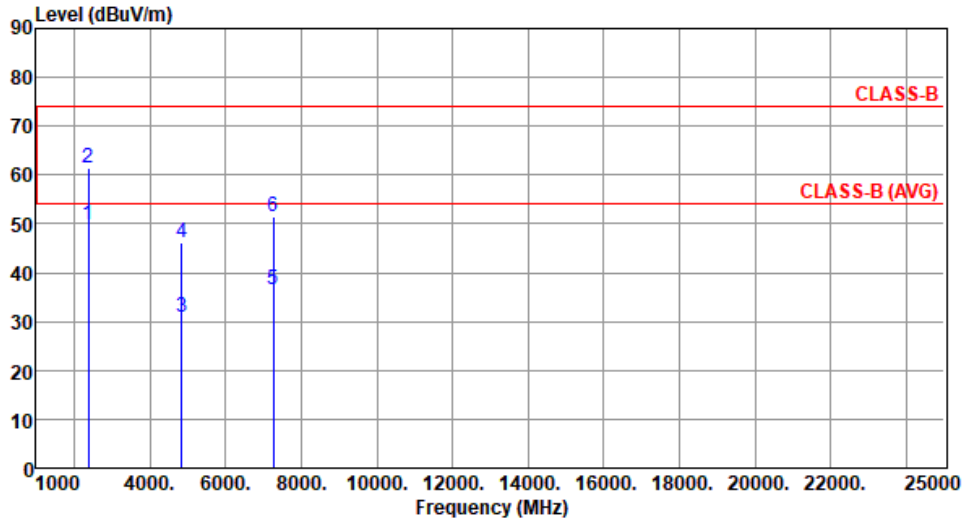
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

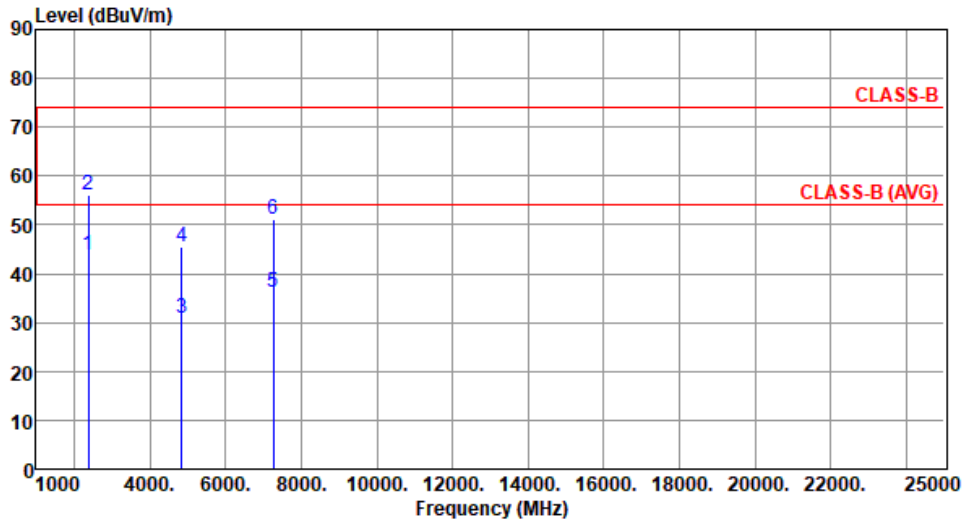
<b>Modulation</b>	HT20	<b>Test Freq. (MHz)</b>	2462						
<b>Polarization</b>	Vertical								
Test By :Brad Wu      Temperature(°C):24      Humidity(%):66									
									
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	40.47	54.00	-13.53	43.17	-2.70	Average	100	343
2	2483.50	57.09	74.00	-16.91	59.79	-2.70	Peak	100	343
3	4924.00	31.20	54.00	-22.80	27.14	4.06	Average	100	11
4	4924.00	45.73	74.00	-28.27	41.67	4.06	Peak	100	11
5	7386.00	36.54	54.00	-17.46	27.29	9.25	Average	100	13
6	7386.00	51.30	74.00	-22.70	42.05	9.25	Peak	100	13
<p>Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).</p>									

### 3.5.8 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	2422						
<b>Polarization</b>	Horizontal								
Test By :Brad Wu      Temperature(°C):24      Humidity(%):66									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	49.85	54.00	-4.15	52.60	-2.75	Average	131	187
2	2390.00	61.28	74.00	-12.72	64.03	-2.75	Peak	131	187
3	4844.00	30.99	54.00	-23.01	26.83	4.16	Average	100	25
4	4844.00	46.00	74.00	-28.00	41.84	4.16	Peak	100	25
5	7266.00	36.50	54.00	-17.50	27.27	9.23	Average	100	29
6	7266.00	51.53	74.00	-22.47	42.30	9.23	Peak	100	29
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	2422
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	43.72	54.00	-10.28	46.47	-2.75	Average	100	311
2	2390.00	56.05	74.00	-17.95	58.80	-2.75	Peak	100	311
3	4844.00	30.76	54.00	-23.24	26.60	4.16	Average	100	19
4	4844.00	45.54	74.00	-28.46	41.38	4.16	Peak	100	19
5	7266.00	36.29	54.00	-17.71	27.06	9.23	Average	100	26
6	7266.00	51.18	74.00	-22.82	41.95	9.23	Peak	100	26

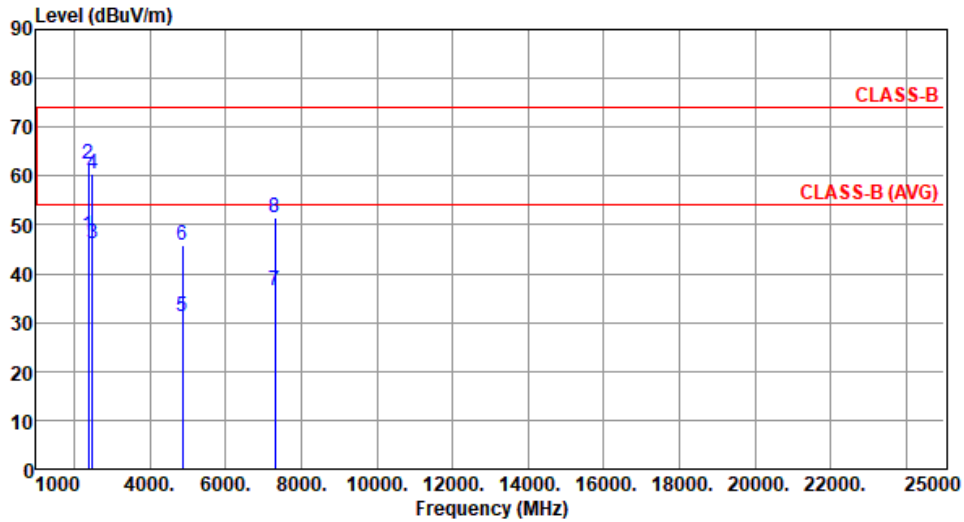
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	47.78	54.00	-6.22	50.53	-2.75	Average	131	188
2	2390.00	62.60	74.00	-11.40	65.35	-2.75	Peak	131	188
3	2483.50	46.13	54.00	-7.87	48.83	-2.70	Average	121	195
4	2483.50	60.54	74.00	-13.46	63.24	-2.70	Peak	121	195
5	4874.00	31.21	54.00	-22.79	27.08	4.13	Average	100	219
6	4874.00	45.90	74.00	-28.10	41.77	4.13	Peak	100	219
7	7311.00	36.66	54.00	-17.34	27.38	9.28	Average	100	225
8	7311.00	51.55	74.00	-22.45	42.27	9.28	Peak	100	225

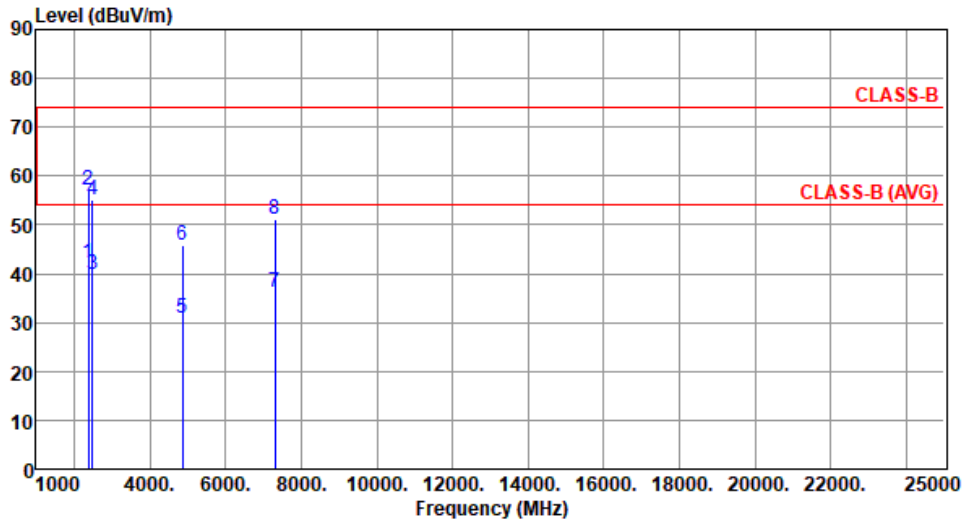
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	42.05	54.00	-11.95	44.80	-2.75	Average	100	329
2	2390.00	57.05	74.00	-16.95	59.80	-2.75	Peak	100	329
3	2483.50	39.80	54.00	-14.20	42.50	-2.70	Average	100	329
4	2483.50	55.07	74.00	-18.93	57.77	-2.70	Peak	100	329
5	4874.00	30.77	54.00	-23.23	26.64	4.13	Average	100	26
6	4874.00	45.80	74.00	-28.20	41.67	4.13	Peak	100	26
7	7311.00	36.29	54.00	-17.71	27.01	9.28	Average	100	28
8	7311.00	51.22	74.00	-22.78	41.94	9.28	Peak	100	28

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

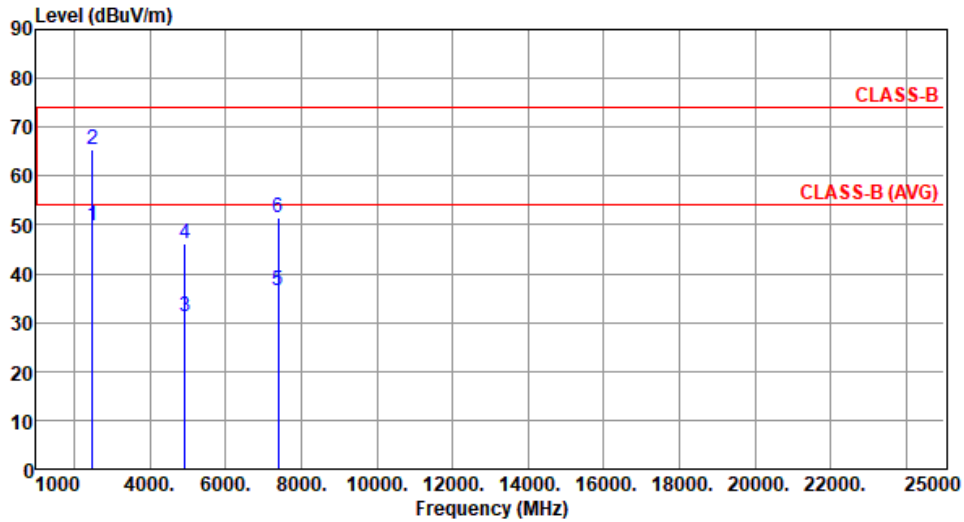
\*Factor includes antenna factor , cable loss and amplifier gain

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



<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	2452
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	49.88	54.00	-4.12	52.58	-2.70	Average	122	193
2	2483.50	65.56	74.00	-8.44	68.26	-2.70	Peak	122	193
3	4924.00	31.06	54.00	-22.94	27.00	4.06	Average	100	239
4	4924.00	46.08	74.00	-27.92	42.02	4.06	Peak	100	239
5	7386.00	36.56	54.00	-17.44	27.31	9.25	Average	100	240
6	7386.00	51.53	74.00	-22.47	42.28	9.25	Peak	100	240

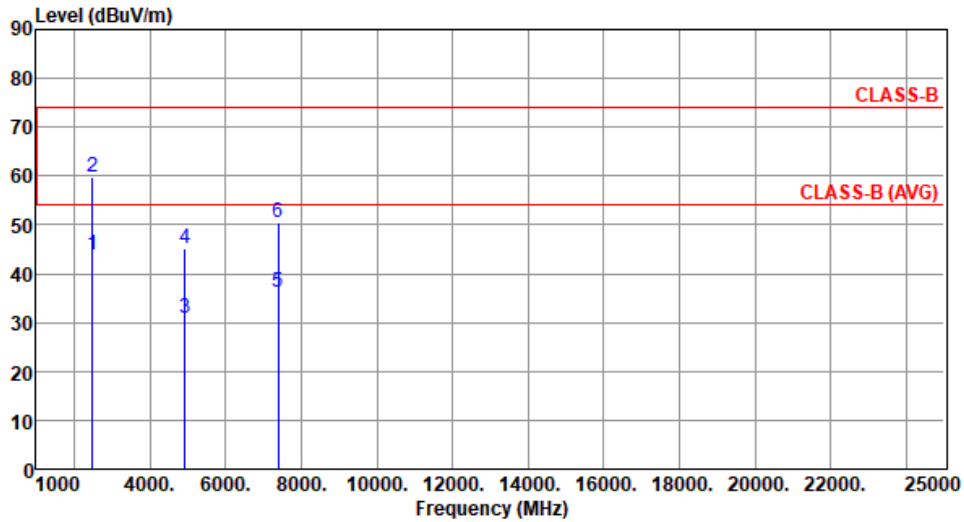
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	2452
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):24      Humidity(%):66



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	43.80	54.00	-10.20	46.50	-2.70	Average	100	322
2	2483.50	59.63	74.00	-14.37	62.33	-2.70	Peak	100	322
3	4924.00	30.88	54.00	-23.12	26.82	4.06	Average	100	21
4	4924.00	45.20	74.00	-28.80	41.14	4.06	Peak	100	21
5	7386.00	36.30	54.00	-17.70	27.05	9.25	Average	100	23
6	7386.00	50.63	74.00	-23.37	41.38	9.25	Peak	100	23

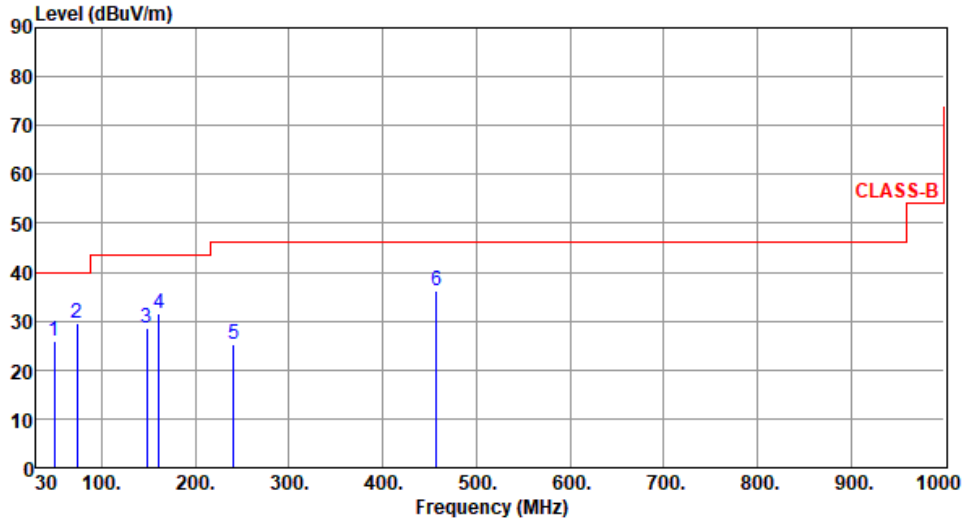
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

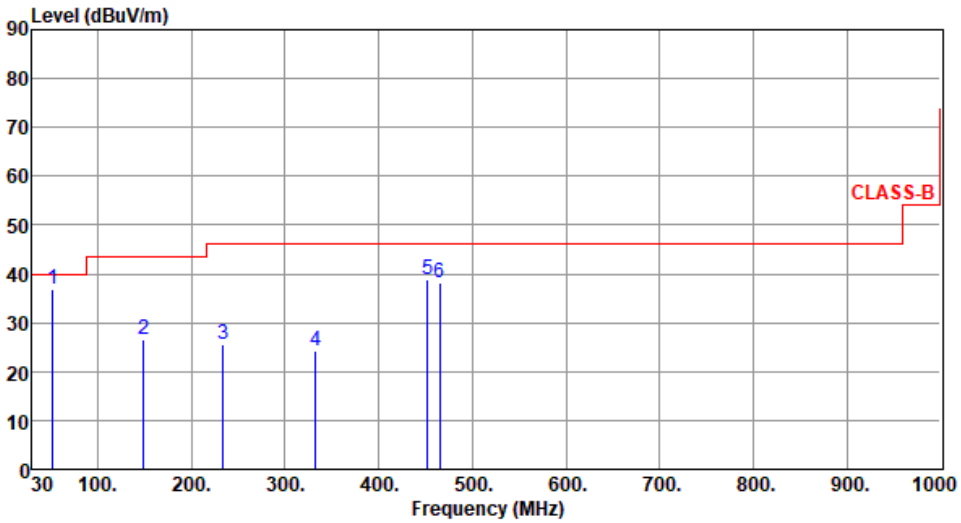
\*Factor includes antenna factor , cable loss and amplifier gain

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

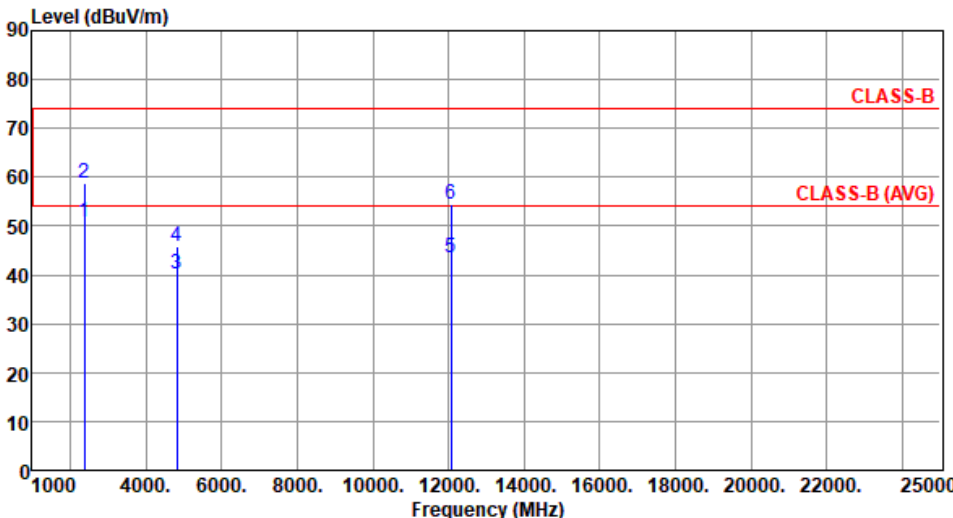
## Configuration 2

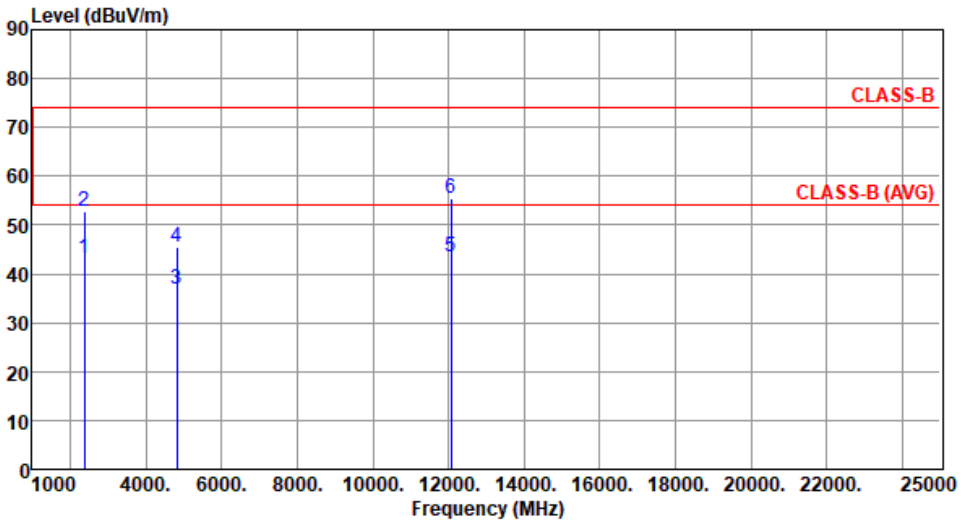
### 3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11g	Test Freq. (MHz)	2437						
Polarization	Horizontal								
Codition :LF_ANT1G_522_220629		Antenna Pol. :HORIZONTAL							
Test By :Brad Wu		Temperature(°C):23 Humidity(%):64							
 <p>The graph displays the radiated unwanted emissions for a transmitter. The y-axis represents the emission level in dBuV/m, ranging from 0 to 90. The x-axis represents the frequency in MHz, ranging from 30 to 1000. A red line indicates the CLASS-B limit, which is constant at 46 dBuV/m from 30 MHz to 950 MHz, then steps up to 55 dBuV/m at 1000 MHz. Six blue vertical lines represent measured emission peaks, labeled 1 through 6, with their respective frequencies and levels.</p>									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	49.40	26.00	40.00	-14.00	34.55	-8.55	Peak	---	---
2	73.65	29.61	40.00	-10.39	41.47	-11.86	Peak	---	---
3	148.34	28.56	43.50	-14.94	37.54	-8.98	Peak	---	---
4	160.95	31.64	43.50	-11.86	40.42	-8.78	Peak	---	---
5	240.49	25.17	46.00	-20.83	35.53	-10.36	Peak	---	---
6	457.77	36.17	46.00	-9.83	40.29	-4.12	Peak	---	---
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *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.</p>									

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2437						
<b>Polarization</b>	Vertical								
Codition :LF_ANT1G_522_220629		Antenna Pol. :VERTICAL							
Test By :Brad Wu		Temperature(°C):23 Humidity(%):64							
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	52.31	36.94	40.00	-3.06	45.70	-8.76	Peak	---	---
2	149.31	26.69	43.50	-16.81	35.74	-9.05	Peak	---	---
3	233.70	25.45	46.00	-20.55	36.53	-11.08	Peak	---	---
4	332.64	24.17	46.00	-21.83	31.55	-7.38	Peak	---	---
5	451.95	38.81	46.00	-7.19	43.00	-4.19	Peak	---	---
6	465.53	38.20	46.00	-7.80	42.20	-4.00	Peak	---	---
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *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.</p>									

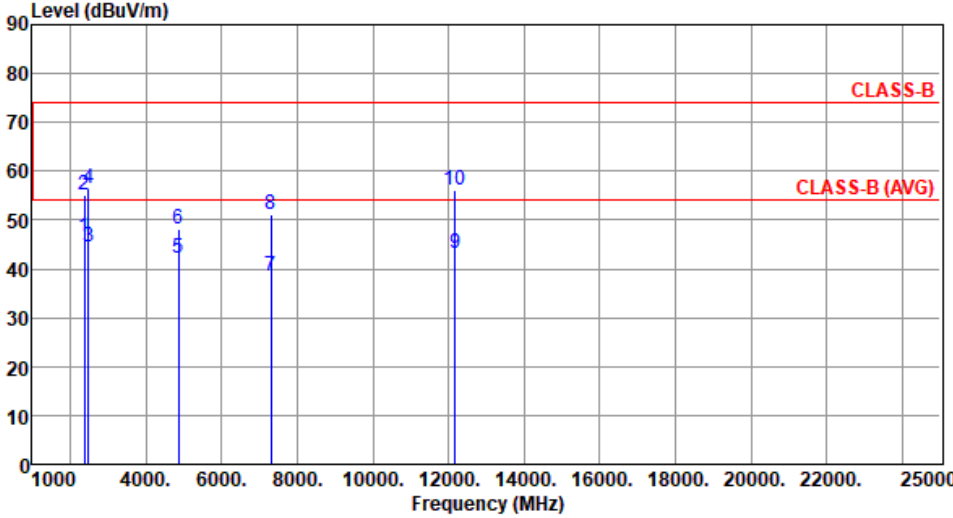
### 3.5.10 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11b

Modulation	11b	Test Freq. (MHz)	2412						
Polarization	Horizontal								
Codition :ANT40G_096508_221202		Antenna Pol. :HORIZONTAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
 <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 25000). Two horizontal red lines represent limits: CLASS-B at approximately 75 dBuV/m and CLASS-B (AVG) at approximately 55 dBuV/m. Six vertical blue lines represent emission peaks, labeled 2, 3, 4, 5, and 6. Peak 2 is at 2390 MHz, peak 3 at 4824 MHz, peak 4 at 4824 MHz, peak 5 at 12060 MHz, and peak 6 at 12060 MHz.</p>									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	50.97	54.00	-3.03	53.72	-2.75	Average	199	12
2	2390.00	58.65	74.00	-15.35	61.40	-2.75	Peak	199	12
3	4824.00	40.17	54.00	-13.83	36.03	4.14	Average	150	238
4	4824.00	45.90	74.00	-28.10	41.76	4.14	Peak	150	238
5	12060.00	43.39	54.00	-10.61	29.60	13.79	Average	100	240
6	12060.00	54.60	74.00	-19.40	40.81	13.79	Peak	100	240
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *Factor includes antenna factor , cable loss and amplifier gain            Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2412						
<b>Polarization</b>	Vertical								
Codition :ANT40G_096508_221202		Antenna Pol. :VERTICAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	43.05	54.00	-10.95	45.80	-2.75	Average	132	4
2	2390.00	52.94	74.00	-21.06	55.69	-2.75	Peak	132	4
3	4824.00	37.00	54.00	-17.00	32.86	4.14	Average	100	45
4	4824.00	45.66	74.00	-28.34	41.52	4.14	Peak	100	45
5	12060.00	43.62	54.00	-10.38	29.83	13.79	Average	100	145
6	12060.00	55.34	74.00	-18.66	41.55	13.79	Peak	100	145
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Horizontal		
Codition :ANT40G_096508_221202		Antenna Pol. :HORIZONTAL	
Test By :Brad Wu		Temperature(°C):25 Humidity(%):61	



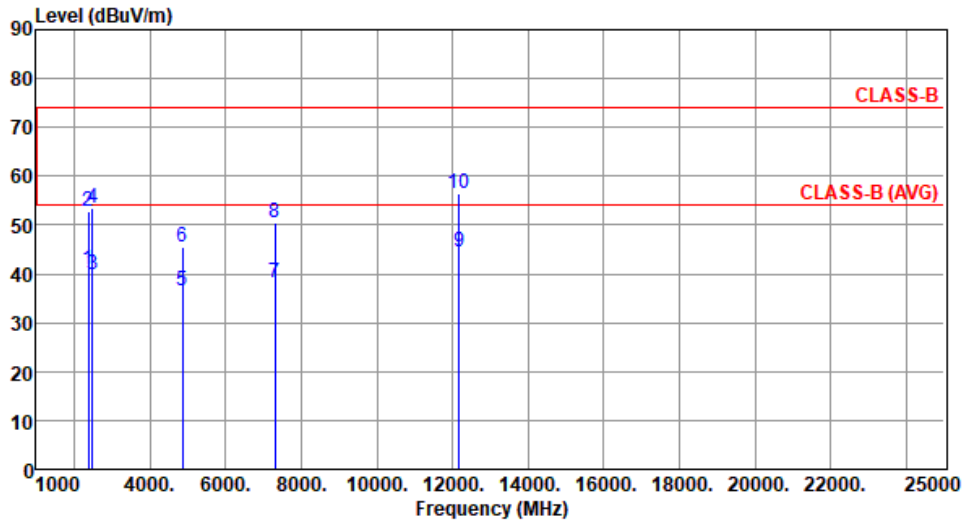
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	46.38	54.00	-7.62	49.13	-2.75	Average	187	345
2	2390.00	55.10	74.00	-18.90	57.85	-2.75	Peak	187	345
3	2483.50	44.55	54.00	-9.45	47.25	-2.70	Average	187	345
4	2483.50	56.32	74.00	-17.68	59.02	-2.70	Peak	187	345
5	4874.00	42.33	54.00	-11.67	38.20	4.13	Average	154	232
6	4874.00	48.20	74.00	-25.80	44.07	4.13	Peak	154	232
7	7311.00	38.48	54.00	-15.52	29.20	9.28	Average	100	339
8	7311.00	51.30	74.00	-22.70	42.02	9.28	Peak	100	339
9	12185.00	43.03	54.00	-10.97	29.34	13.69	Average	100	60
10	12185.00	56.06	74.00	-17.94	42.37	13.69	Peak	100	60

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2437
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<b>Polarization</b>	Vertical
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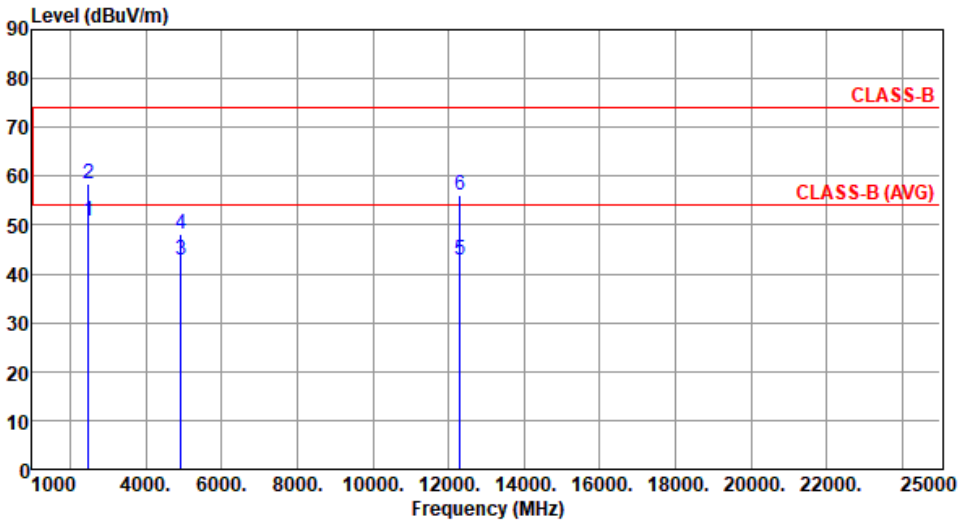
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 Test By :Brad Wu      Temperature(°C):25      Humidity(%):61

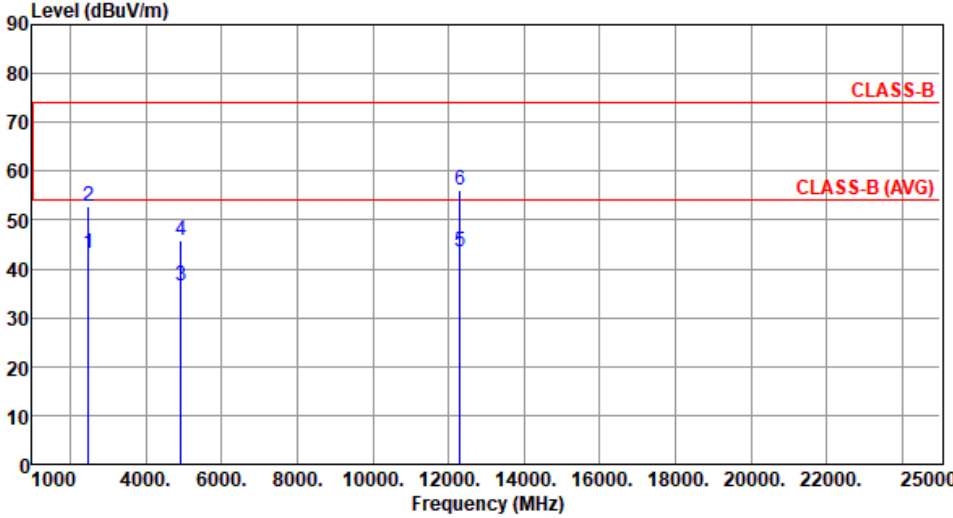


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	40.74	54.00	-13.26	43.49	-2.75	Average	100	101
2	2390.00	52.76	74.00	-21.24	55.51	-2.75	Peak	100	101
3	2483.50	39.70	54.00	-14.30	42.40	-2.70	Average	100	101
4	2483.50	53.48	74.00	-20.52	56.18	-2.70	Peak	100	101
5	4874.00	36.52	54.00	-17.48	32.39	4.13	Average	166	78
6	4874.00	45.47	74.00	-28.53	41.34	4.13	Peak	166	78
7	7311.00	38.08	54.00	-15.92	28.80	9.28	Average	100	40
8	7311.00	50.54	74.00	-23.46	41.26	9.28	Peak	100	40
9	12185.00	44.42	54.00	-9.58	30.73	13.69	Average	100	163
10	12185.00	56.45	74.00	-17.55	42.76	13.69	Peak	100	163

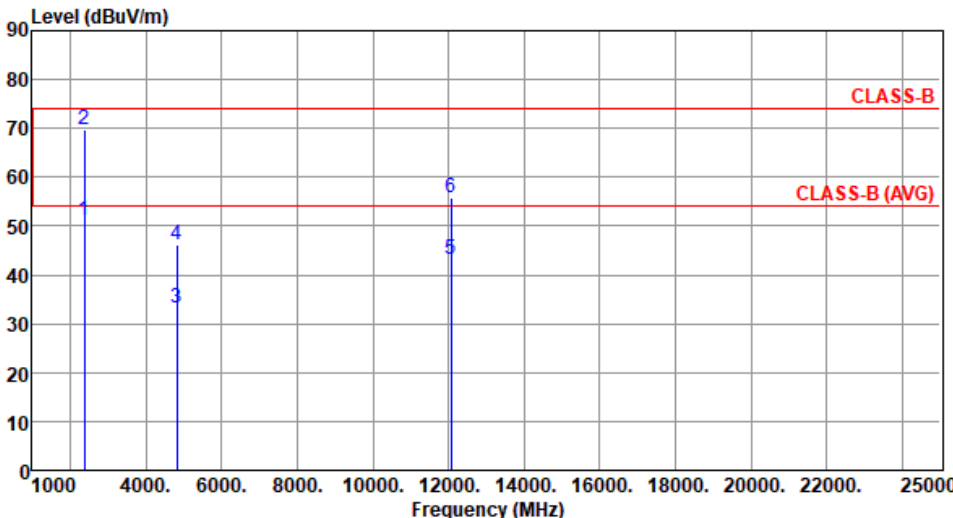
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)  
 \*Factor includes antenna factor , cable loss and amplifier gain  
 Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).



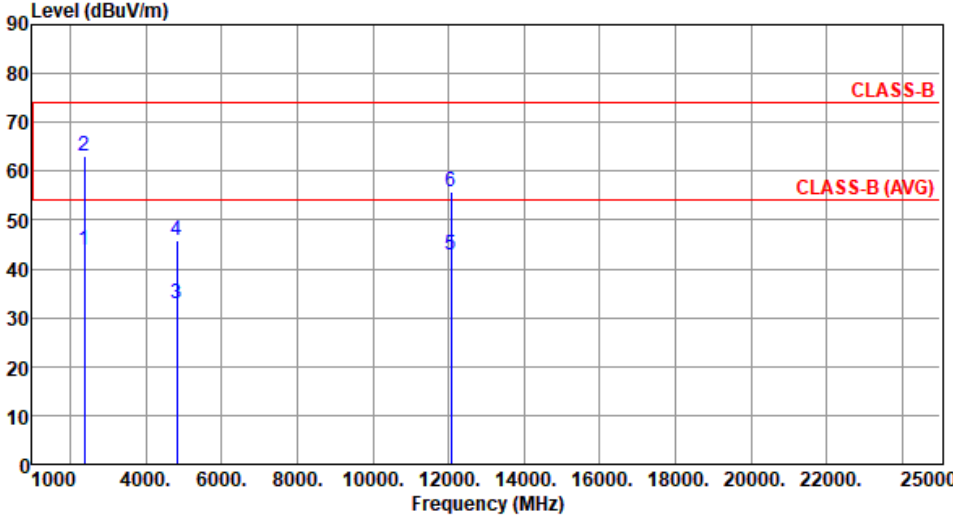
<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2462						
<b>Polarization</b>	Horizontal								
Condition :ANT40G_096508_221202		Antenna Pol. :HORIZONTAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	50.78	54.00	-3.22	53.48	-2.70	Average	168	348
2	2483.50	58.47	74.00	-15.53	61.17	-2.70	Peak	168	348
3	4924.00	42.96	54.00	-11.04	38.90	4.06	Average	160	229
4	4924.00	48.19	74.00	-25.81	44.13	4.06	Peak	160	229
5	12310.00	42.96	54.00	-11.04	29.31	13.65	Average	100	233
6	12310.00	56.01	74.00	-17.99	42.36	13.65	Peak	100	233
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2462						
<b>Polarization</b>	Vertical								
Codition :ANT40G_096508_221202		Antenna Pol. :VERTICAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	43.17	54.00	-10.83	45.87	-2.70	Average	130	5
2	2483.50	52.88	74.00	-21.12	55.58	-2.70	Peak	130	5
3	4924.00	36.57	54.00	-17.43	32.51	4.06	Average	100	6
4	4924.00	45.98	74.00	-28.02	41.92	4.06	Peak	100	6
5	12310.00	43.48	54.00	-10.52	29.83	13.65	Average	100	164
6	12310.00	56.07	74.00	-17.93	42.42	13.65	Peak	100	164
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

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

Modulation	11g	Test Freq. (MHz)	2412					
Polarization	Horizontal							
Codition :ANT40G_096508_221202		Antenna Pol. :HORIZONTAL						
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61						
								
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	50.99	54.00	-3.01	53.74	-2.75	Average	128 347
2	2390.00	69.79	74.00	-4.21	72.54	-2.75	Peak	128 347
3	4824.00	33.32	54.00	-20.68	29.18	4.14	Average	100 325
4	4824.00	46.22	74.00	-27.78	42.08	4.14	Peak	100 325
5	12060.00	43.24	54.00	-10.76	29.45	13.79	Average	100 327
6	12060.00	55.95	74.00	-18.05	42.16	13.79	Peak	100 327

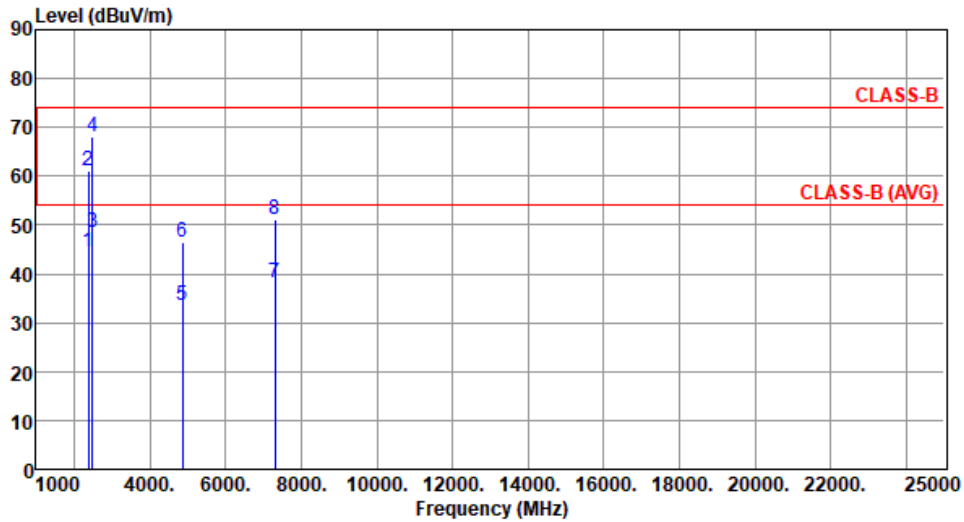
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2412						
<b>Polarization</b>	Vertical								
Codition :ANT40G_096508_221202		Antenna Pol. :VERTICAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
 <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 25000). Two horizontal red lines represent CLASS-B limits: one at approximately 74 dBuV/m and another at approximately 55 dBuV/m. Six vertical blue lines represent emission peaks, labeled 1 through 6, with their corresponding data values listed in the table below.</p>									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	43.72	54.00	-10.28	46.47	-2.75	Average	133	5
2	2390.00	63.06	74.00	-10.94	65.81	-2.75	Peak	133	5
3	4824.00	32.99	54.00	-21.01	28.85	4.14	Average	100	77
4	4824.00	45.79	74.00	-28.21	41.65	4.14	Peak	100	77
5	12060.00	42.91	54.00	-11.09	29.12	13.79	Average	100	58
6	12060.00	55.70	74.00	-18.30	41.91	13.79	Peak	100	58
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2437
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<b>Polarization</b>	Horizontal		
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Codition :ANT40G\_096508\_221202      Antenna Pol. :HORIZONTAL  
 Test By :Roger Lu      Temperature(°C):25      Humidity(%):61

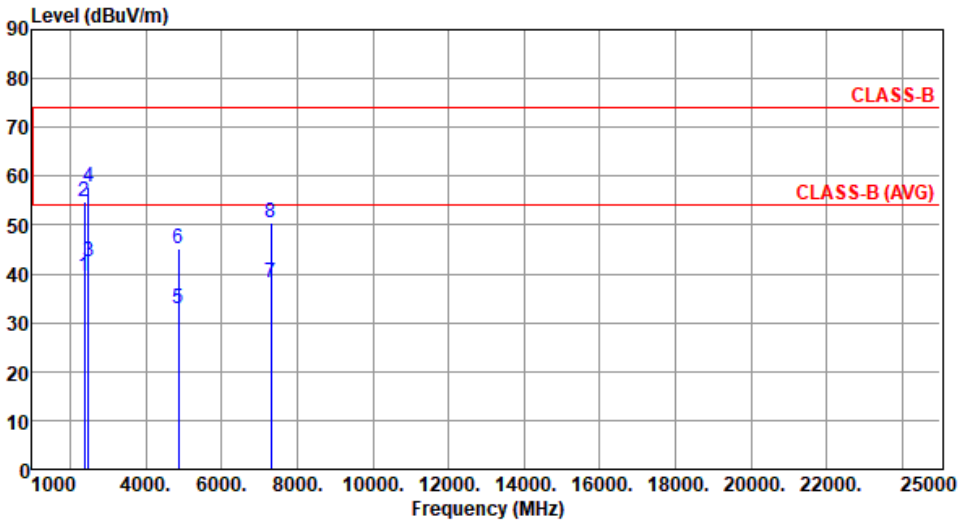


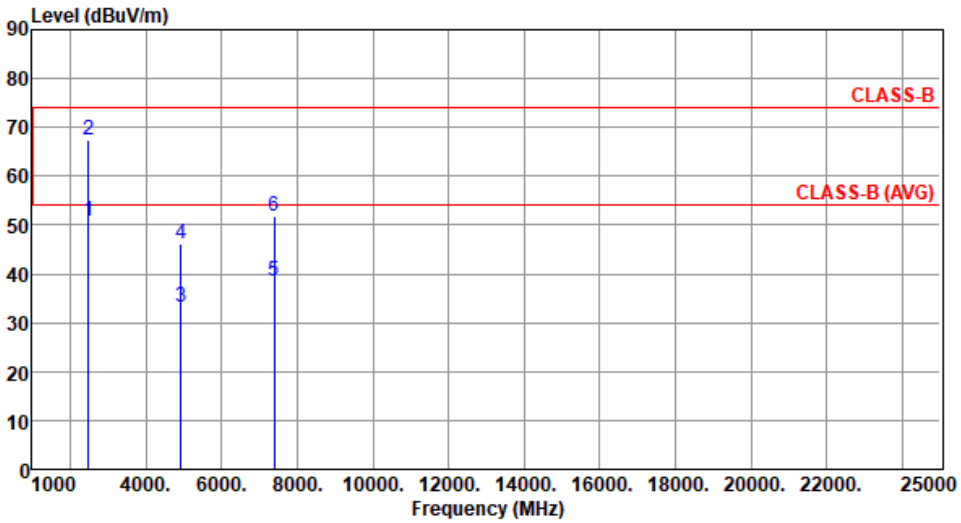
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	44.38	54.00	-9.62	47.13	-2.75	Average	140	4
2	2390.00	61.08	74.00	-12.92	63.83	-2.75	Peak	140	4
3	2483.50	48.52	54.00	-5.48	51.22	-2.70	Average	140	4
4	2483.50	68.23	74.00	-5.77	70.93	-2.70	Peak	140	4
5	4874.00	33.47	54.00	-20.53	29.34	4.13	Average	155	310
6	4874.00	46.66	74.00	-27.34	42.53	4.13	Peak	155	310
7	7311.00	38.34	54.00	-15.66	29.06	9.28	Average	100	333
8	7311.00	51.18	74.00	-22.82	41.90	9.28	Peak	100	333

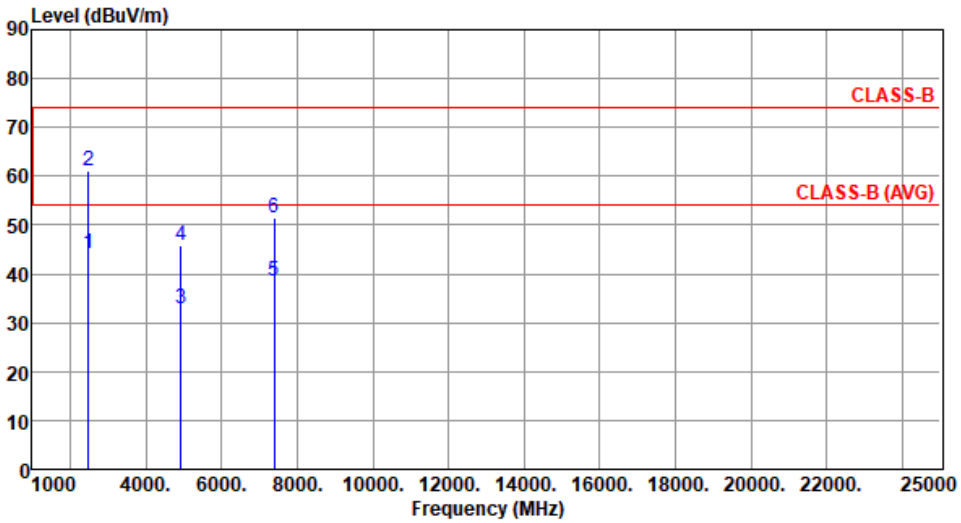
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

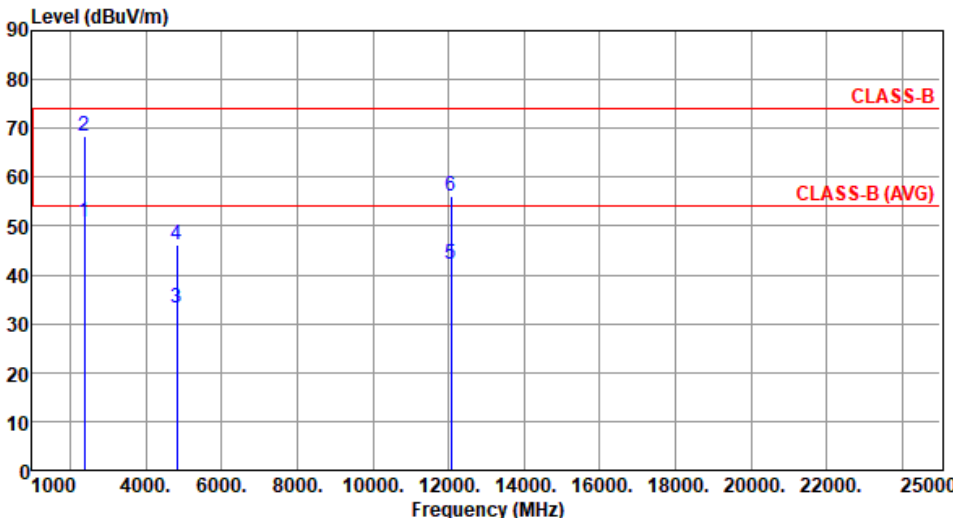
Modulation	11g	Test Freq. (MHz)	2437						
Polarization	Vertical								
Codition :ANT40G_096508_221202		Antenna Pol. :VERTICAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
 <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 25000). Two horizontal red lines represent limits: CLASS-B at approximately 75 dBuV/m and CLASS-B (AVG) at approximately 55 dBuV/m. Eight vertical blue lines represent emission levels at various frequencies, labeled 1 through 8. The levels are: 1 (2390 MHz, 39.44 dBuV/m), 2 (2390 MHz, 54.76 dBuV/m), 3 (2483.5 MHz, 42.48 dBuV/m), 4 (2483.5 MHz, 57.81 dBuV/m), 5 (4874 MHz, 32.80 dBuV/m), 6 (4874 MHz, 45.29 dBuV/m), 7 (7311 MHz, 38.10 dBuV/m), and 8 (7311 MHz, 50.47 dBuV/m).</p>									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	39.44	54.00	-14.56	42.19	-2.75	Average	100	105
2	2390.00	54.76	74.00	-19.24	57.51	-2.75	Peak	100	105
3	2483.50	42.48	54.00	-11.52	45.18	-2.70	Average	100	105
4	2483.50	57.81	74.00	-16.19	60.51	-2.70	Peak	100	105
5	4874.00	32.80	54.00	-21.20	28.67	4.13	Average	145	75
6	4874.00	45.29	74.00	-28.71	41.16	4.13	Peak	145	75
7	7311.00	38.10	54.00	-15.90	28.82	9.28	Average	100	40
8	7311.00	50.47	74.00	-23.53	41.19	9.28	Peak	100	40
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *Factor includes antenna factor , cable loss and amplifier gain            Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

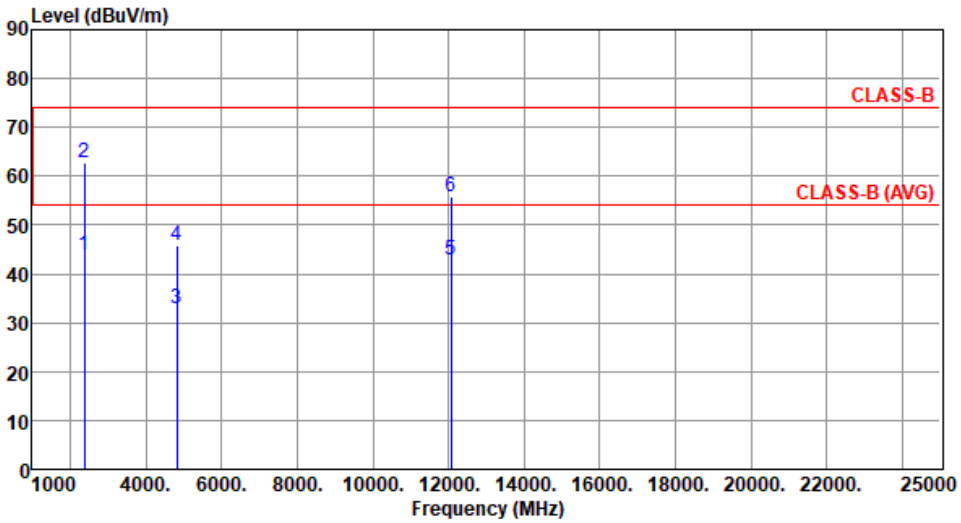
<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2462						
<b>Polarization</b>	Horizontal								
Codition :ANT40G_096508_221202		Antenna Pol. :HORIZONTAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
 <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 25000). Two horizontal red lines represent limits: CLASS-B at approximately 75 dBuV/m and CLASS-B (AVG) at approximately 55 dBuV/m. Six vertical blue lines represent emission levels at various frequencies, labeled 2, 4, 5, and 6. Line 2 is at 2483.50 MHz (67.51 dBuV/m), line 4 is at 4924.00 MHz (46.25 dBuV/m), line 5 is at 7386.00 MHz (38.67 dBuV/m), and line 6 is at 7386.00 MHz (51.77 dBuV/m). Lines 3 and 4 are at 4924.00 MHz with levels 33.29 and 46.25 dBuV/m respectively.</p>									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2483.50	50.89	54.00	-3.11	53.59	-2.70	Average	120	2
2	2483.50	67.51	74.00	-6.49	70.21	-2.70	Peak	120	2
3	4924.00	33.29	54.00	-20.71	29.23	4.06	Average	100	324
4	4924.00	46.25	74.00	-27.75	42.19	4.06	Peak	100	324
5	7386.00	38.67	54.00	-15.33	29.42	9.25	Average	100	322
6	7386.00	51.77	74.00	-22.23	42.52	9.25	Peak	100	322
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

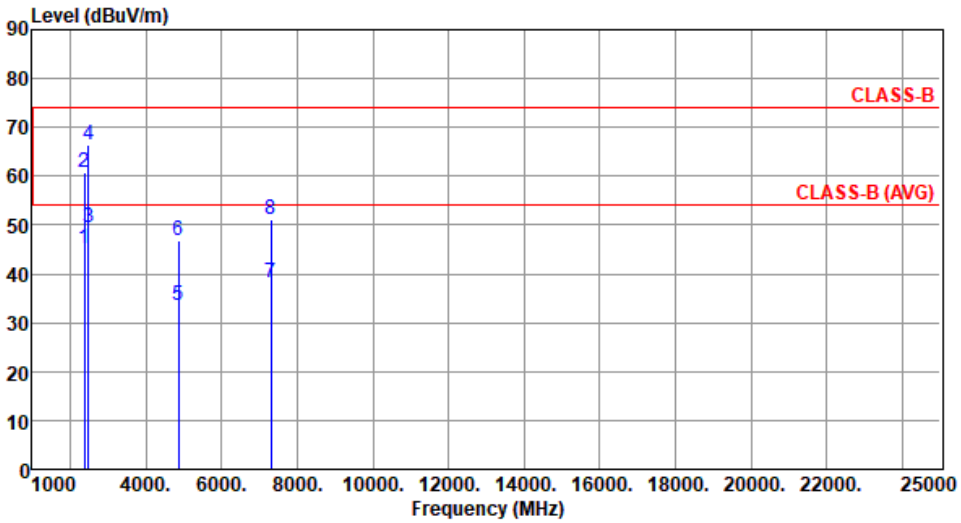
<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2462						
<b>Polarization</b>	Vertical								
Codition :ANT40G_096508_221202		Antenna Pol. :VERTICAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
 <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 25000). Two horizontal red lines represent limits: CLASS-B at approximately 74 dBuV/m and CLASS-B (AVG) at approximately 54 dBuV/m. Six vertical blue lines represent emission peaks labeled 1 through 6, with their levels and frequencies corresponding to the table below.</p>									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	44.17	54.00	-9.83	46.87	-2.70	Average	133	7
2	2483.50	61.17	74.00	-12.83	63.87	-2.70	Peak	133	7
3	4924.00	32.99	54.00	-21.01	28.93	4.06	Average	100	70
4	4924.00	45.90	74.00	-28.10	41.84	4.06	Peak	100	70
5	7386.00	38.43	54.00	-15.57	29.18	9.25	Average	100	74
6	7386.00	51.42	74.00	-22.58	42.17	9.25	Peak	100	74
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

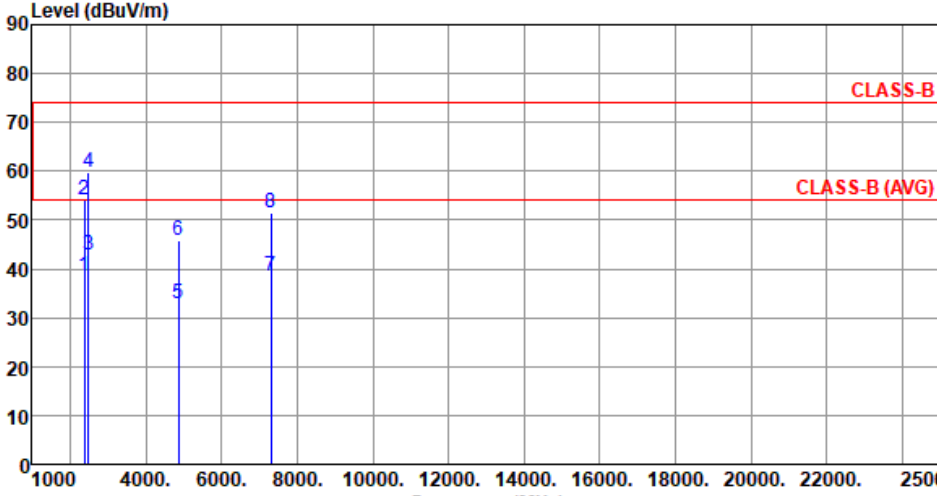


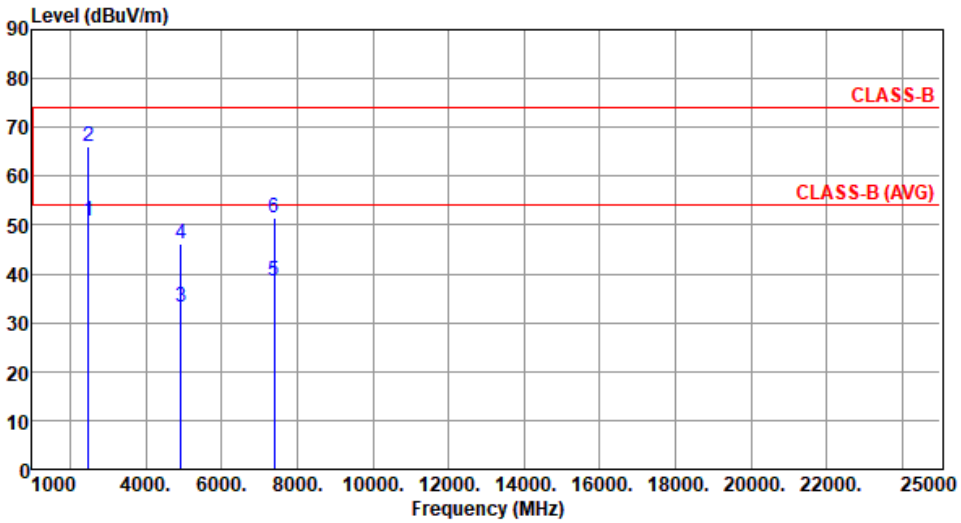
### 3.5.12 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

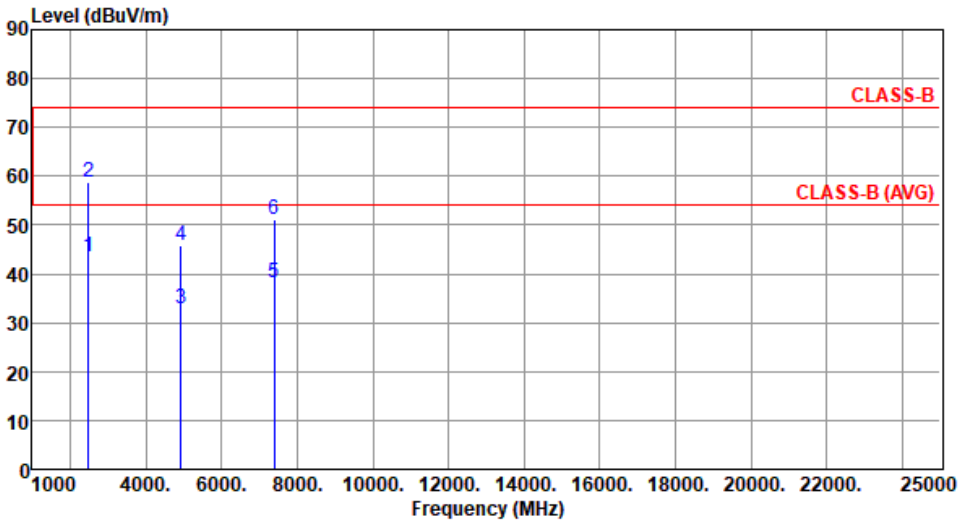
Modulation	HT20	Test Freq. (MHz)	2412						
Polarization	Horizontal								
Codition :ANT40G_096508_221202		Antenna Pol. :HORIZONTAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
									
Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg	
1	2390.00	50.96	54.00	-3.04	53.71	-2.75	Average	144	340
2	2390.00	68.36	74.00	-5.64	71.11	-2.75	Peak	144	340
3	4824.00	33.18	54.00	-20.82	29.04	4.14	Average	100	339
4	4824.00	46.12	74.00	-27.88	41.98	4.14	Peak	100	339
5	12060.00	42.12	54.00	-11.88	28.33	13.79	Average	100	328
6	12060.00	56.06	74.00	-17.94	42.27	13.79	Peak	100	328
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *Factor includes antenna factor , cable loss and amplifier gain            Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

Modulation	HT20	Test Freq. (MHz)	2412						
Polarization	Vertical								
Codition :ANT40G_096508_221202		Antenna Pol. :VERTICAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
 <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 25000). Two horizontal red lines represent CLASS-B limits: one at approximately 75 dBuV/m and another at approximately 55 dBuV/m. Six vertical blue lines indicate emission peaks at various frequencies, labeled 1 through 6. Peak 1 is at 2390 MHz, peak 2 at 2390 MHz, peak 3 at 4824 MHz, peak 4 at 4824 MHz, peak 5 at 12060 MHz, and peak 6 at 12060 MHz.</p>									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	43.90	54.00	-10.10	46.65	-2.75	Average	137	1
2	2390.00	62.61	74.00	-11.39	65.36	-2.75	Peak	137	1
3	4824.00	32.85	54.00	-21.15	28.71	4.14	Average	100	70
4	4824.00	45.76	74.00	-28.24	41.62	4.14	Peak	100	70
5	12060.00	42.72	54.00	-11.28	28.93	13.79	Average	100	71
6	12060.00	55.76	74.00	-18.24	41.97	13.79	Peak	100	71
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *Factor includes antenna factor , cable loss and amplifier gain            Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

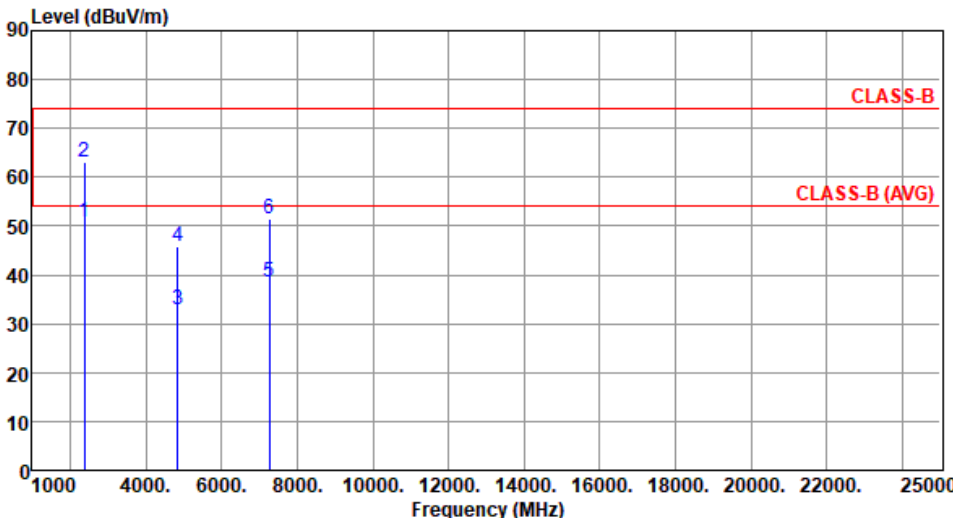
<b>Modulation</b>	HT20	<b>Test Freq. (MHz)</b>	2437						
<b>Polarization</b>	Horizontal								
Codition :ANT40G_096508_221202		Antenna Pol. :HORIZONTAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
 <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 25000). Two horizontal red lines represent limits: CLASS-B at approximately 75 dBuV/m and CLASS-B (AVG) at approximately 55 dBuV/m. Eight vertical blue lines represent emission levels at various frequencies, labeled 1 through 8. The levels are: 1 (2390 MHz, 45.22 dBuV/m), 2 (2390 MHz, 60.67 dBuV/m), 3 (2483.5 MHz, 49.40 dBuV/m), 4 (2483.5 MHz, 66.33 dBuV/m), 5 (4874 MHz, 33.58 dBuV/m), 6 (4874 MHz, 46.87 dBuV/m), 7 (7311 MHz, 38.10 dBuV/m), and 8 (7311 MHz, 51.04 dBuV/m).</p>									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	45.22	54.00	-8.78	47.97	-2.75	Average	139	8
2	2390.00	60.67	74.00	-13.33	63.42	-2.75	Peak	139	8
3	2483.50	49.40	54.00	-4.60	52.10	-2.70	Average	139	8
4	2483.50	66.33	74.00	-7.67	69.03	-2.70	Peak	139	8
5	4874.00	33.58	54.00	-20.42	29.45	4.13	Average	156	315
6	4874.00	46.87	74.00	-27.13	42.74	4.13	Peak	156	315
7	7311.00	38.10	54.00	-15.90	28.82	9.28	Average	100	40
8	7311.00	51.04	74.00	-22.96	41.76	9.28	Peak	100	40
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

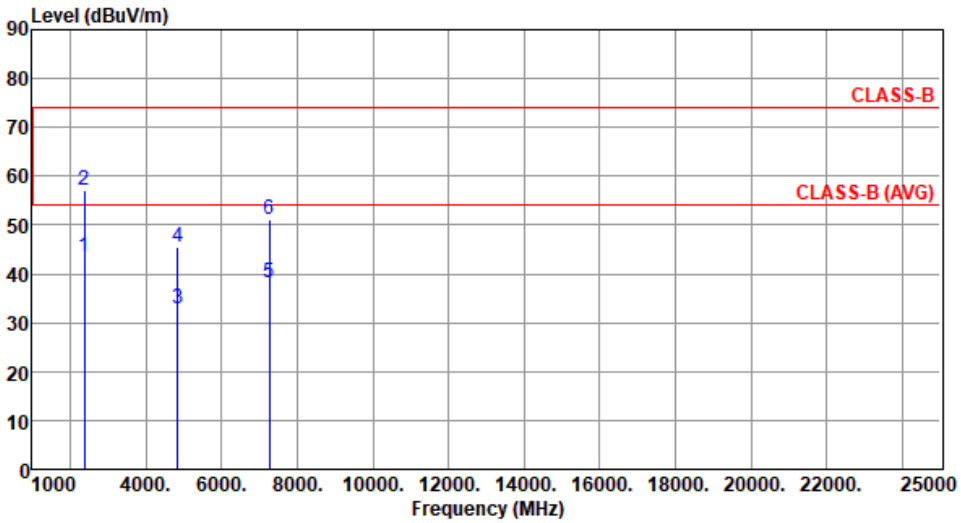
Modulation	HT20	Test Freq. (MHz)	2437						
Polarization	Vertical								
Codition :ANT40G_096508_221202		Antenna Pol. :VERTICAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	38.40	54.00	-15.60	41.15	-2.75	Average	148	6
2	2390.00	54.12	74.00	-19.88	56.87	-2.75	Peak	148	6
3	2483.50	42.74	54.00	-11.26	45.44	-2.70	Average	148	6
4	2483.50	59.69	74.00	-14.31	62.39	-2.70	Peak	148	6
5	4874.00	32.97	54.00	-21.03	28.84	4.13	Average	100	80
6	4874.00	45.88	74.00	-28.12	41.75	4.13	Peak	100	80
7	7311.00	38.39	54.00	-15.61	29.11	9.28	Average	100	75
8	7311.00	51.55	74.00	-22.45	42.27	9.28	Peak	100	75
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *Factor includes antenna factor , cable loss and amplifier gain            Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

<b>Modulation</b>	HT20	<b>Test Freq. (MHz)</b>	2462						
<b>Polarization</b>	Horizontal								
Condition :ANT40G_096508_221202		Antenna Pol. :HORIZONTAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
 <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 25000). Two horizontal red lines represent limits: CLASS-B at approximately 75 dBuV/m and CLASS-B (AVG) at approximately 55 dBuV/m. Six vertical blue lines represent emission levels at various frequencies, labeled 1 through 6. The levels are: 1 (2483.50 MHz, 50.81 dBuV/m), 2 (2483.50 MHz, 65.93 dBuV/m), 3 (4924.00 MHz, 33.10 dBuV/m), 4 (4924.00 MHz, 46.25 dBuV/m), 5 (7386.00 MHz, 38.65 dBuV/m), and 6 (7386.00 MHz, 51.63 dBuV/m).</p>									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2483.50	50.81	54.00	-3.19	53.51	-2.70	Average	139	344
2	2483.50	65.93	74.00	-8.07	68.63	-2.70	Peak	139	344
3	4924.00	33.10	54.00	-20.90	29.04	4.06	Average	100	326
4	4924.00	46.25	74.00	-27.75	42.19	4.06	Peak	100	326
5	7386.00	38.65	54.00	-15.35	29.40	9.25	Average	100	327
6	7386.00	51.63	74.00	-22.37	42.38	9.25	Peak	100	327
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

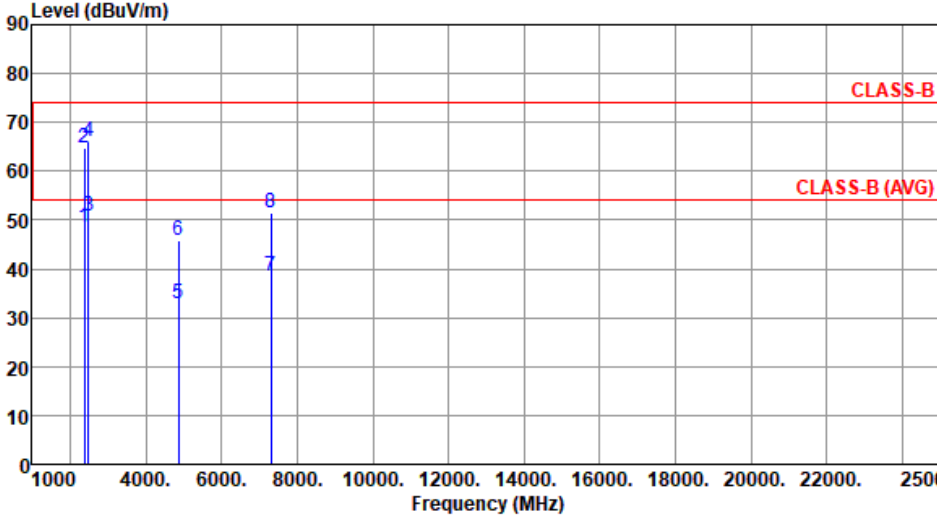
Modulation	HT20	Test Freq. (MHz)	2462						
Polarization	Vertical								
Codition :ANT40G_096508_221202		Antenna Pol. :VERTICAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	43.36	54.00	-10.64	46.06	-2.70	Average	140	9
2	2483.50	58.77	74.00	-15.23	61.47	-2.70	Peak	140	9
3	4924.00	32.79	54.00	-21.21	28.73	4.06	Average	100	78
4	4924.00	45.75	74.00	-28.25	41.69	4.06	Peak	100	78
5	7386.00	38.28	54.00	-15.72	29.03	9.25	Average	100	87
6	7386.00	51.21	74.00	-22.79	41.96	9.25	Peak	100	87
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *Factor includes antenna factor , cable loss and amplifier gain            Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

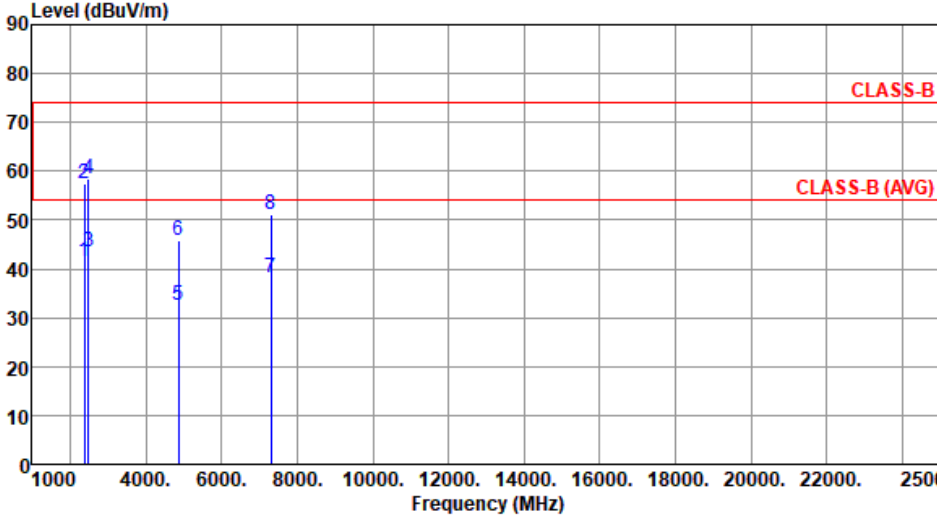
### 3.5.13 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

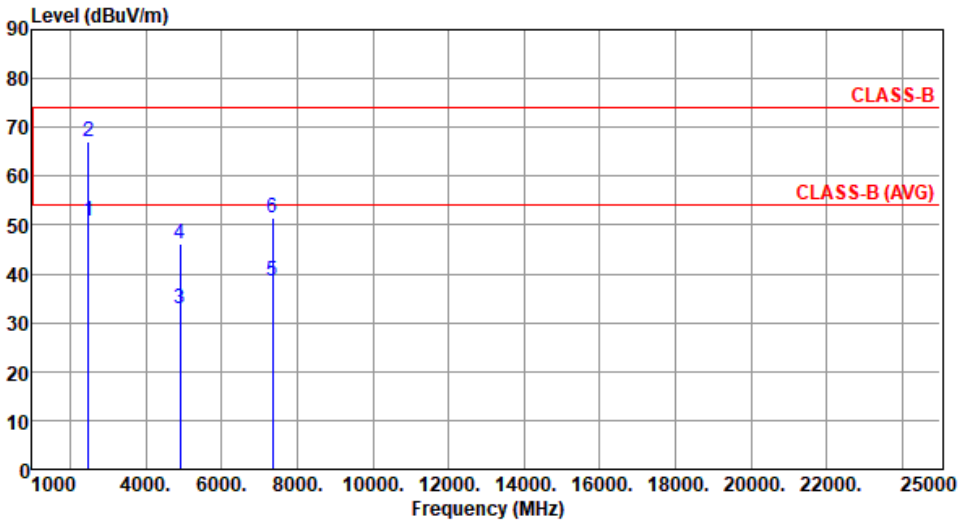
Modulation	HT40	Test Freq. (MHz)	2422						
Polarization	Horizontal								
Codition :ANT40G_096508_221202		Antenna Pol. :HORIZONTAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
 <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 25000). Two horizontal red lines represent limits: CLASS-B at approximately 75 dBuV/m and CLASS-B (AVG) at approximately 55 dBuV/m. Six vertical blue lines represent emission peaks labeled 2, 3, 4, 5, and 6. Peak 2 is at 2390 MHz, peak 3 at 4844 MHz, peak 4 at 4844 MHz, peak 5 at 7266 MHz, and peak 6 at 7266 MHz.</p>									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	50.88	54.00	-3.12	53.63	-2.75	Average	130	350
2	2390.00	63.22	74.00	-10.78	65.97	-2.75	Peak	130	350
3	4844.00	32.94	54.00	-21.06	28.78	4.16	Average	100	337
4	4844.00	45.86	74.00	-28.14	41.70	4.16	Peak	100	337
5	7266.00	38.43	54.00	-15.57	29.20	9.23	Average	100	331
6	7266.00	51.42	74.00	-22.58	42.19	9.23	Peak	100	331
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *Factor includes antenna factor , cable loss and amplifier gain            Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

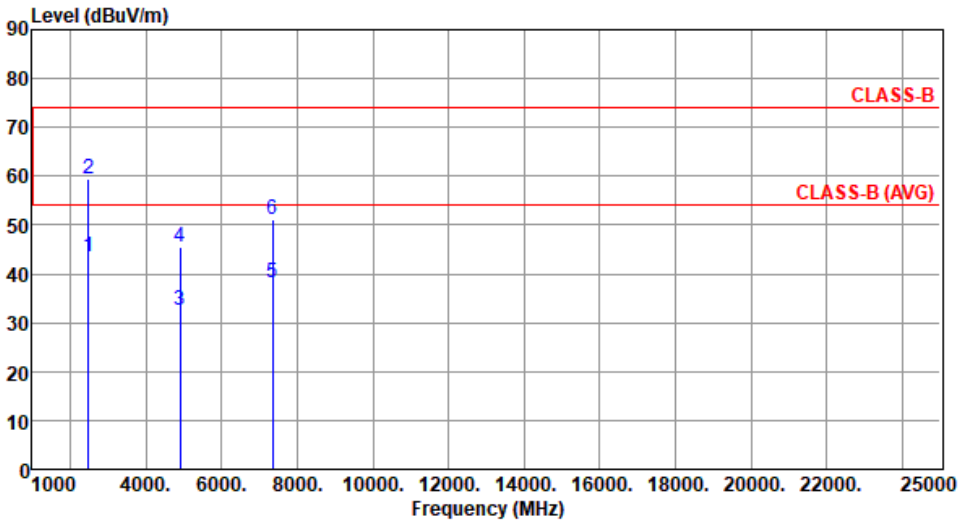
Modulation	HT40	Test Freq. (MHz)	2422						
Polarization	Vertical								
Codition :ANT40G_096508_221202		Antenna Pol. :VERTICAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	43.58	54.00	-10.42	46.33	-2.75	Average	152	3
2	2390.00	57.06	74.00	-16.94	59.81	-2.75	Peak	152	3
3	4844.00	32.76	54.00	-21.24	28.60	4.16	Average	100	71
4	4844.00	45.64	74.00	-28.36	41.48	4.16	Peak	100	71
5	7266.00	38.27	54.00	-15.73	29.04	9.23	Average	100	75
6	7266.00	51.16	74.00	-22.84	41.93	9.23	Peak	100	75
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *Factor includes antenna factor , cable loss and amplifier gain            Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									



Modulation	HT40	Test Freq. (MHz)	2437						
Polarization	Horizontal								
Codition :ANT40G_096508_221202		Antenna Pol. :HORIZONTAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	48.44	54.00	-5.56	51.19	-2.75	Average	143	354
2	2390.00	64.68	74.00	-9.32	67.43	-2.75	Peak	143	354
3	2483.50	50.98	54.00	-3.02	53.68	-2.70	Average	143	354
4	2483.50	65.93	74.00	-8.07	68.63	-2.70	Peak	143	354
5	4874.00	33.01	54.00	-20.99	28.88	4.13	Average	100	313
6	4874.00	45.89	74.00	-28.11	41.76	4.13	Peak	100	313
7	7311.00	38.60	54.00	-15.40	29.32	9.28	Average	100	325
8	7311.00	51.52	74.00	-22.48	42.24	9.28	Peak	100	325
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)</p> <p>*Factor includes antenna factor , cable loss and amplifier gain</p> <p>Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

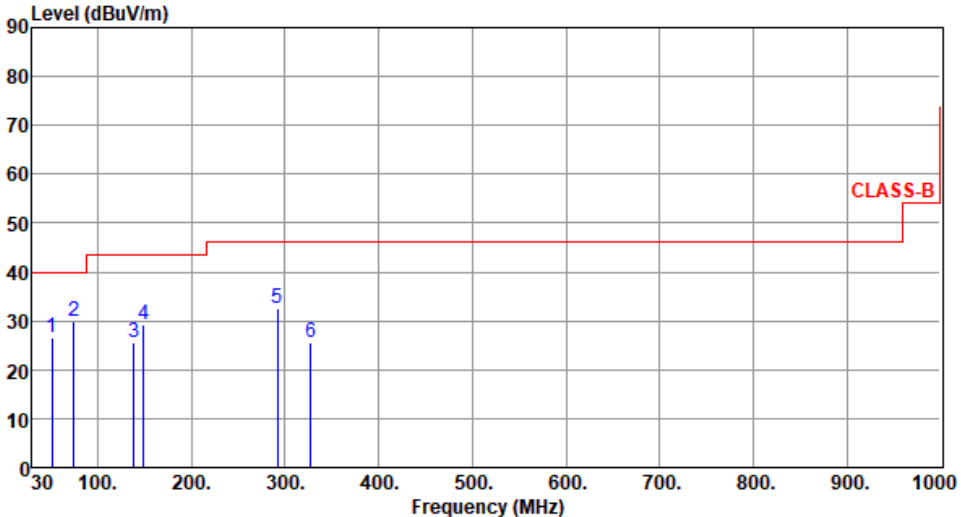
Modulation	HT40	Test Freq. (MHz)	2437						
Polarization	Vertical								
Codition :ANT40G_096508_221202		Antenna Pol. :VERTICAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	41.42	54.00	-12.58	44.17	-2.75	Average	135	6
2	2390.00	57.62	74.00	-16.38	60.37	-2.75	Peak	135	6
3	2483.50	43.36	54.00	-10.64	46.06	-2.70	Average	135	6
4	2483.50	58.44	74.00	-15.56	61.14	-2.70	Peak	135	6
5	4874.00	32.62	54.00	-21.38	28.49	4.13	Average	100	73
6	4874.00	45.71	74.00	-28.29	41.58	4.13	Peak	100	73
7	7311.00	38.23	54.00	-15.77	28.95	9.28	Average	100	70
8	7311.00	51.19	74.00	-22.81	41.91	9.28	Peak	100	70
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *Factor includes antenna factor , cable loss and amplifier gain            Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	2452						
<b>Polarization</b>	Horizontal								
Codition :ANT40G_096508_221202		Antenna Pol. :HORIZONTAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2483.50	50.87	54.00	-3.13	53.57	-2.70	Average	145	359
2	2483.50	66.95	74.00	-7.05	69.65	-2.70	Peak	145	359
3	4904.00	33.03	54.00	-20.97	28.94	4.09	Average	100	326
4	4904.00	46.09	74.00	-27.91	42.00	4.09	Peak	100	326
5	7356.00	38.45	54.00	-15.55	29.19	9.26	Average	100	326
6	7356.00	51.53	74.00	-22.47	42.27	9.26	Peak	100	326
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

Modulation	HT40	Test Freq. (MHz)	2452						
Polarization	Vertical								
Codition :ANT40G_096508_221202		Antenna Pol. :VERTICAL							
Test By :Roger Lu		Temperature(°C):25 Humidity(%):61							
 <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 25000). Two horizontal red lines represent limits: 'CLASS-B' at approximately 74 dBuV/m and 'CLASS-B (AVG)' at approximately 54 dBuV/m. Six vertical blue lines represent emission peaks, labeled 1 through 6, with their corresponding data listed in the table below.</p>									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2483.50	43.63	54.00	-10.37	46.33	-2.70	Average	133	2
2	2483.50	59.33	74.00	-14.67	62.03	-2.70	Peak	133	2
3	4904.00	32.49	54.00	-21.51	28.40	4.09	Average	100	69
4	4904.00	45.45	74.00	-28.55	41.36	4.09	Peak	100	69
5	7356.00	38.14	54.00	-15.86	28.88	9.26	Average	100	68
6	7356.00	51.10	74.00	-22.90	41.84	9.26	Peak	100	68
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *Factor includes antenna factor , cable loss and amplifier gain            Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

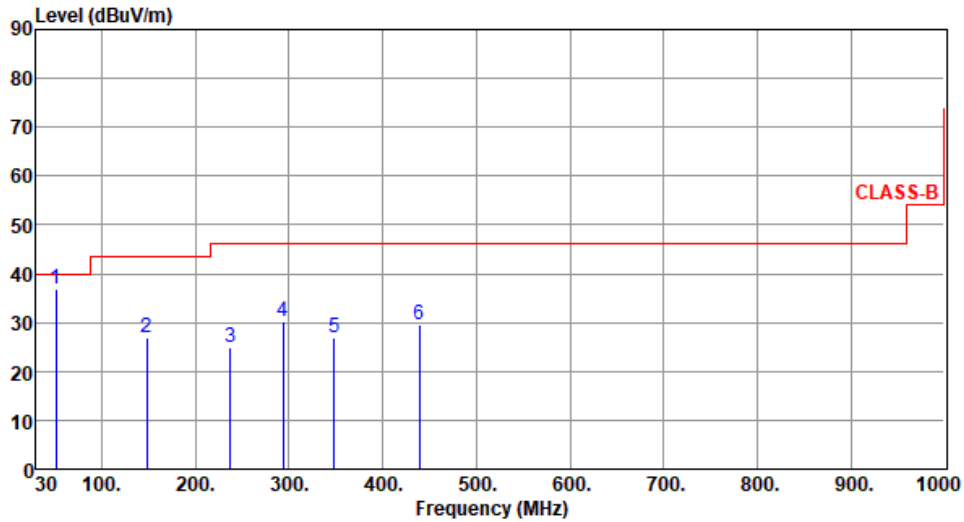
**Configuration 3**

**3.5.14 Transmitter Radiated Unwanted Emissions (Below 1GHz)**

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2437						
<b>Polarization</b>	Horizontal								
Test By :Brad Wu      Temperature(°C):23      Humidity(%):64									
									
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	51.34	26.53	40.00	-13.47	35.31	-8.78	Peak	---	---
2	74.62	29.92	40.00	-10.08	42.00	-12.08	Peak	---	---
3	138.64	25.51	43.50	-17.99	34.79	-9.28	Peak	---	---
4	149.31	29.29	43.50	-14.21	38.34	-9.05	Peak	---	---
5	291.90	32.53	46.00	-13.47	40.84	-8.31	Peak	---	---
6	327.79	25.44	46.00	-20.56	32.89	-7.45	Peak	---	---
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *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.</p>									

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):23      Humidity(%) :64



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	51.34	36.85	40.00	-3.15	45.63	-8.78	Peak	---	---
2	148.34	26.88	43.50	-16.62	35.86	-8.98	Peak	---	---
3	237.58	25.03	46.00	-20.97	35.66	-10.63	Peak	---	---
4	293.84	30.30	46.00	-15.70	38.56	-8.26	Peak	---	---
5	348.16	26.84	46.00	-19.16	33.97	-7.13	Peak	---	---
6	439.34	29.58	46.00	-16.42	34.16	-4.58	Peak	---	---

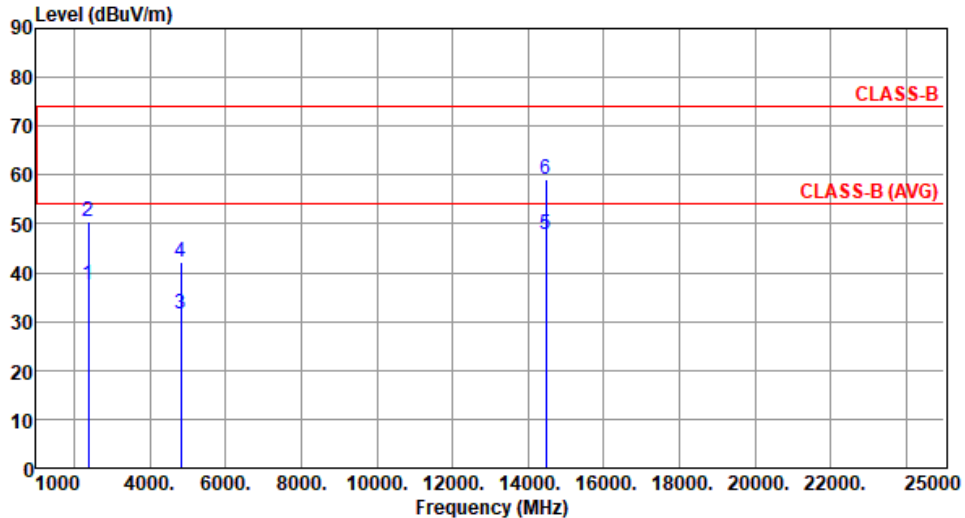
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

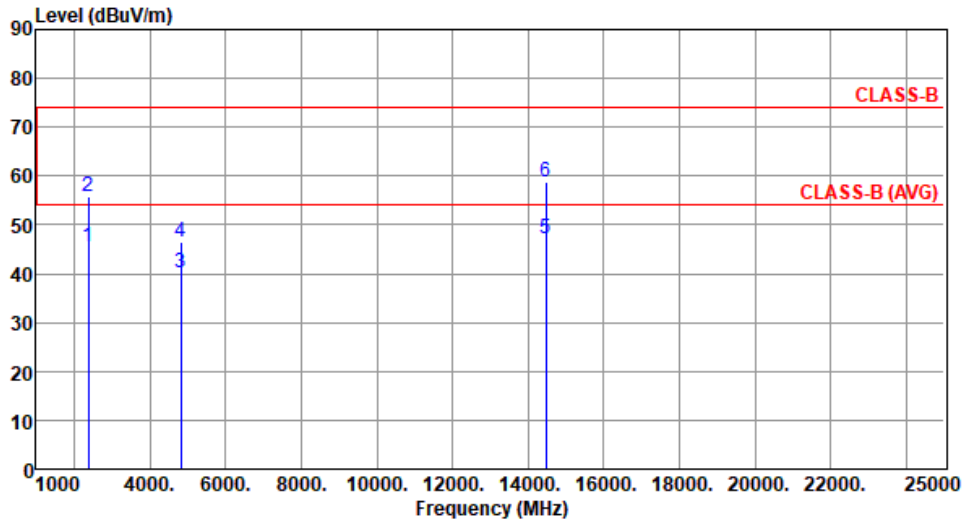
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2412						
<b>Polarization</b>	Horizontal								
Test By :Brad Wu      Temperature(°C):25      Humidity(%):61									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	37.41	54.00	-16.59	40.16	-2.75	Average	295	311
2	2390.00	50.56	74.00	-23.44	53.31	-2.75	Peak	295	311
3	4824.00	31.69	54.00	-22.31	27.55	4.14	Average	100	19
4	4824.00	42.28	74.00	-31.72	38.14	4.14	Peak	100	19
5	14472.00	47.70	54.00	-6.30	30.21	17.49	Average	136	250
6	14472.00	59.06	74.00	-14.94	41.57	17.49	Peak	136	250
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2412
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	45.56	54.00	-8.44	48.31	-2.75	Average	227	62
2	2390.00	55.69	74.00	-18.31	58.44	-2.75	Peak	227	62
3	4824.00	40.15	54.00	-13.85	36.01	4.14	Average	196	348
4	4824.00	46.52	74.00	-27.48	42.38	4.14	Peak	196	348
5	14472.00	47.23	54.00	-6.77	29.74	17.49	Average	211	11
6	14472.00	58.86	74.00	-15.14	41.37	17.49	Peak	211	11

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

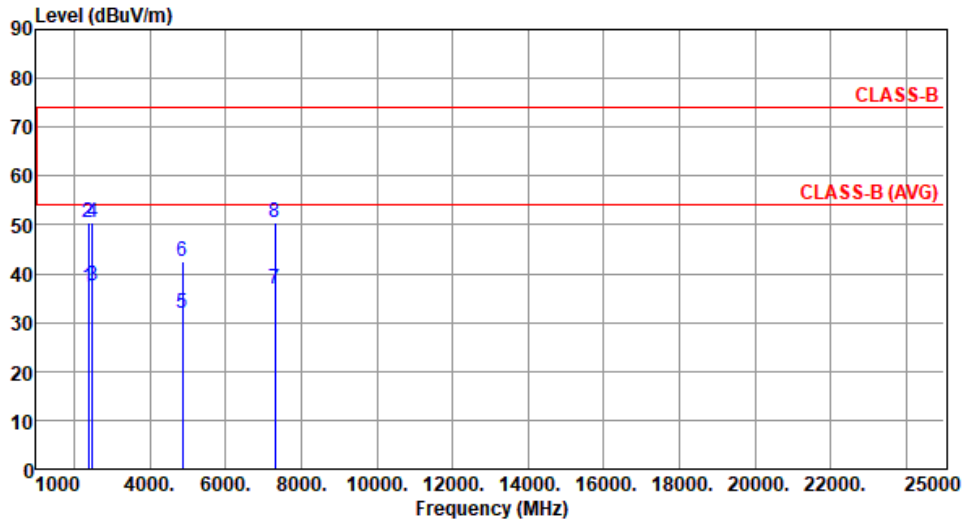
\*Factor includes antenna factor , cable loss and amplifier gain

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



<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	37.22	54.00	-16.78	39.97	-2.75	Average	299	314
2	2390.00	50.42	74.00	-23.58	53.17	-2.75	Peak	299	314
3	2483.50	37.53	54.00	-16.47	40.23	-2.70	Average	299	314
4	2483.50	50.43	74.00	-23.57	53.13	-2.70	Peak	299	314
5	4874.00	31.83	54.00	-22.17	27.70	4.13	Average	100	14
6	4874.00	42.43	74.00	-31.57	38.30	4.13	Peak	100	14
7	7311.00	36.97	54.00	-17.03	27.69	9.28	Average	100	236
8	7311.00	50.50	74.00	-23.50	41.22	9.28	Peak	100	236

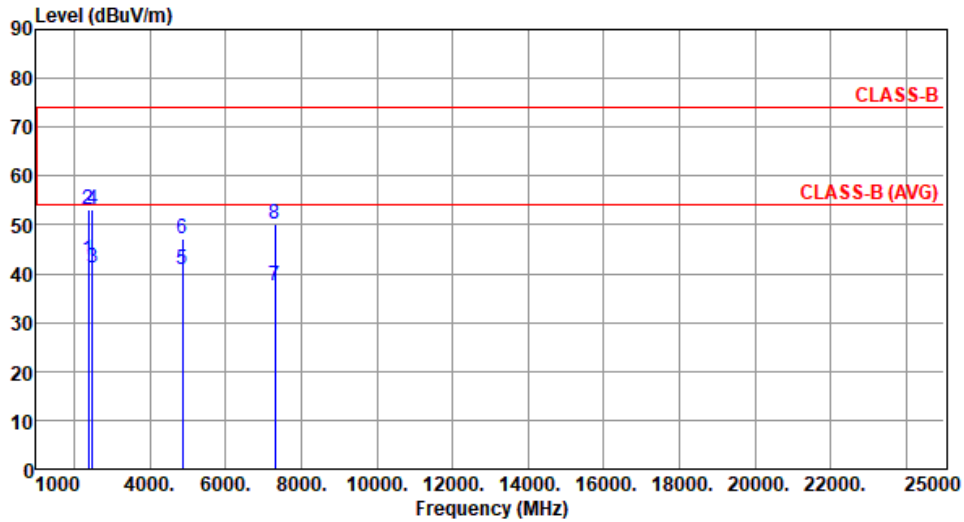
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	42.78	54.00	-11.22	45.53	-2.75	Average	227	63
2	2390.00	52.99	74.00	-21.01	55.74	-2.75	Peak	227	63
3	2483.50	41.06	54.00	-12.94	43.76	-2.70	Average	227	63
4	2483.50	53.11	74.00	-20.89	55.81	-2.70	Peak	227	63
5	4874.00	40.76	54.00	-13.24	36.63	4.13	Average	198	349
6	4874.00	47.15	74.00	-26.85	43.02	4.13	Peak	198	349
7	7311.00	37.65	54.00	-16.35	28.37	9.28	Average	100	138
8	7311.00	50.21	74.00	-23.79	40.93	9.28	Peak	100	138

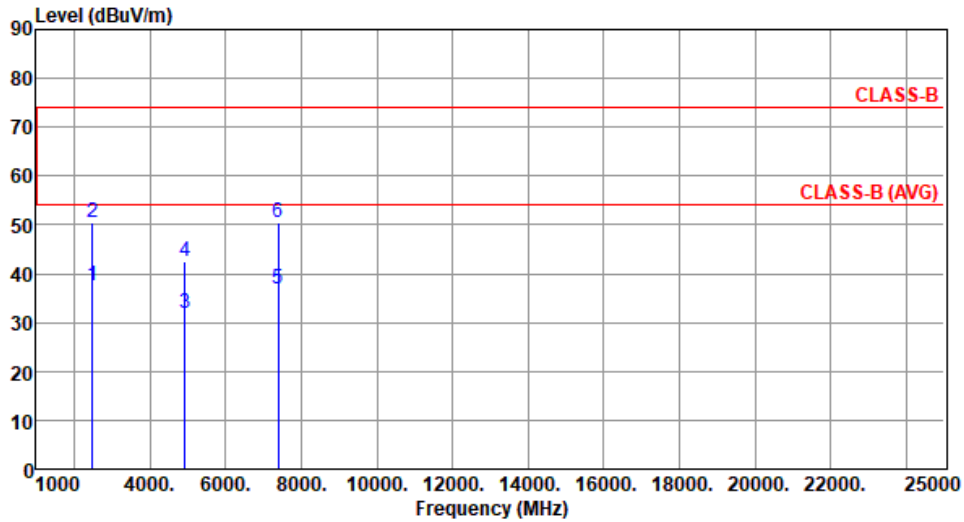
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2462
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	37.61	54.00	-16.39	40.31	-2.70	Average	300	315
2	2483.50	50.56	74.00	-23.44	53.26	-2.70	Peak	300	315
3	4924.00	31.95	54.00	-22.05	27.89	4.06	Average	100	21
4	4924.00	42.54	74.00	-31.46	38.48	4.06	Peak	100	21
5	7386.00	36.85	54.00	-17.15	27.60	9.25	Average	100	231
6	7386.00	50.41	74.00	-23.59	41.16	9.25	Peak	100	231

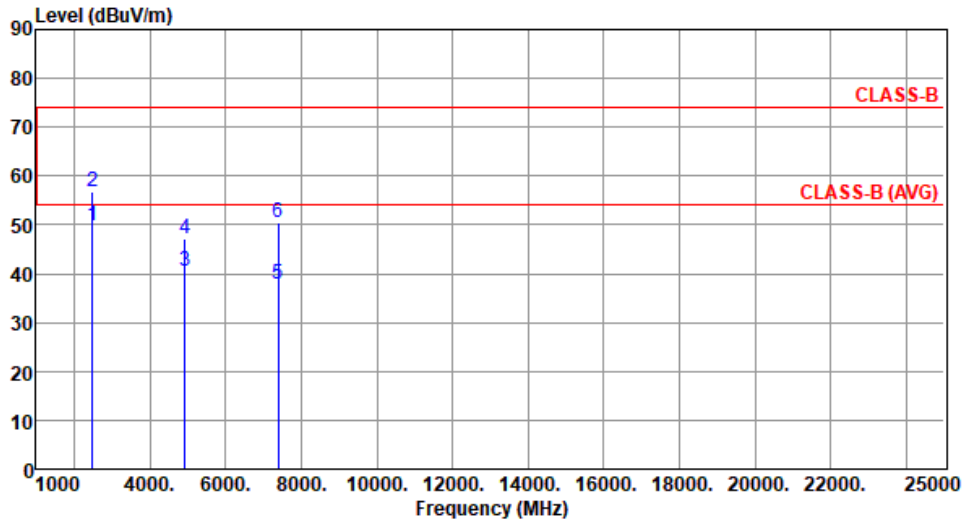
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	11b	<b>Test Freq. (MHz)</b>	2462
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



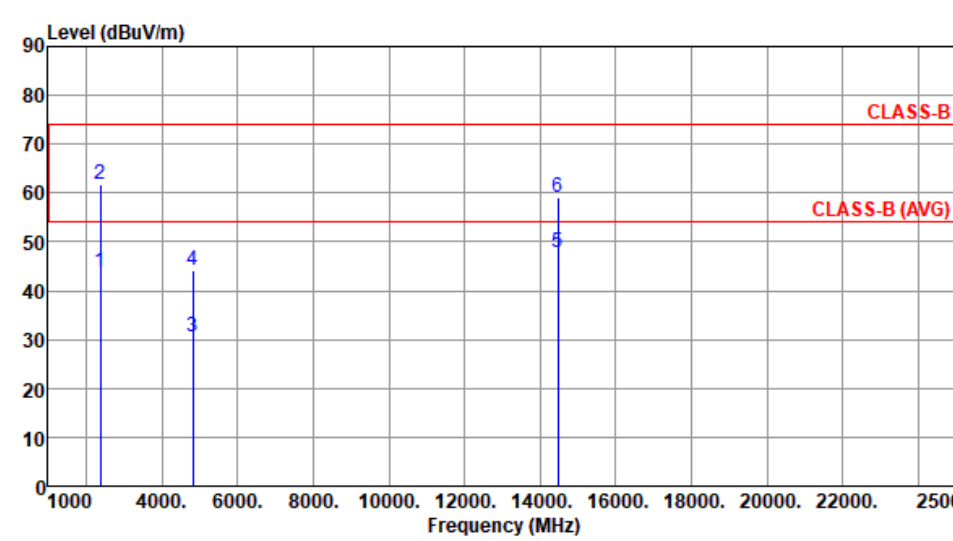
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	49.96	54.00	-4.04	52.66	-2.70	Average	235	65
2	2483.50	56.84	74.00	-17.16	59.54	-2.70	Peak	235	65
3	4924.00	40.61	54.00	-13.39	36.55	4.06	Average	195	346
4	4924.00	47.02	74.00	-26.98	42.96	4.06	Peak	195	346
5	7386.00	37.88	54.00	-16.12	28.63	9.25	Average	100	141
6	7386.00	50.35	74.00	-23.65	41.10	9.25	Peak	100	141

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

\*Factor includes antenna factor , cable loss and amplifier gain

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

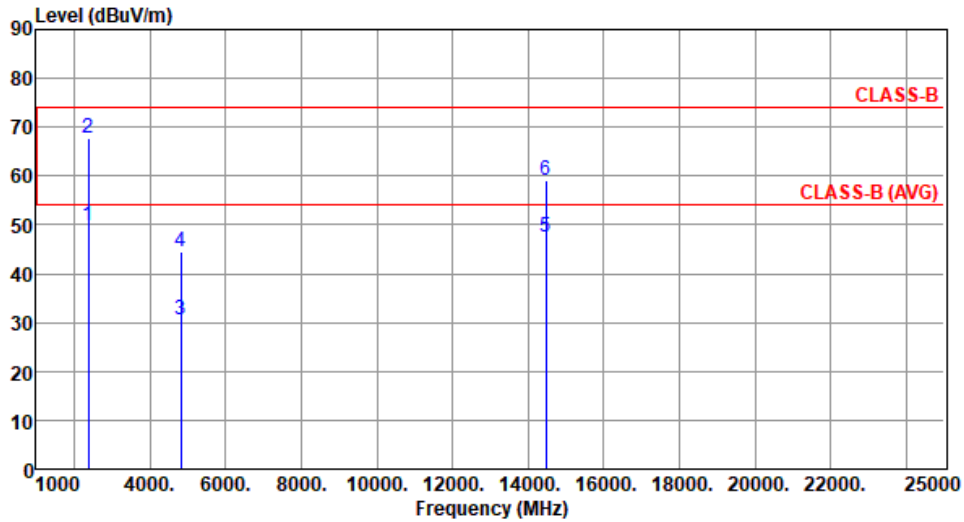
### 3.5.16 Transmitter Radiated Unwanted Emissions (Above 1GHz) for 11g

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2412						
<b>Polarization</b>	Horizontal								
Test By :Brad Wu      Temperature(°C):25      Humidity(%):61									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	43.95	54.00	-10.05	46.70	-2.75	Average	124	115
2	2390.00	61.82	74.00	-12.18	64.57	-2.75	Peak	124	115
3	4824.00	30.52	54.00	-23.48	26.38	4.14	Average	100	21
4	4824.00	44.15	74.00	-29.85	40.01	4.14	Peak	100	21
5	14472.00	47.81	54.00	-6.19	30.32	17.49	Average	135	248
6	14472.00	59.14	74.00	-14.86	41.65	17.49	Peak	135	248

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)  
\*Factor includes antenna factor , cable loss and amplifier gain  
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2412
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	49.85	54.00	-4.15	52.60	-2.75	Average	228	63
2	2390.00	67.62	74.00	-6.38	70.37	-2.75	Peak	228	63
3	4824.00	30.62	54.00	-23.38	26.48	4.14	Average	100	25
4	4824.00	44.58	74.00	-29.42	40.44	4.14	Peak	100	25
5	14472.00	47.41	54.00	-6.59	29.92	17.49	Average	210	15
6	14472.00	58.95	74.00	-15.05	41.46	17.49	Peak	210	15

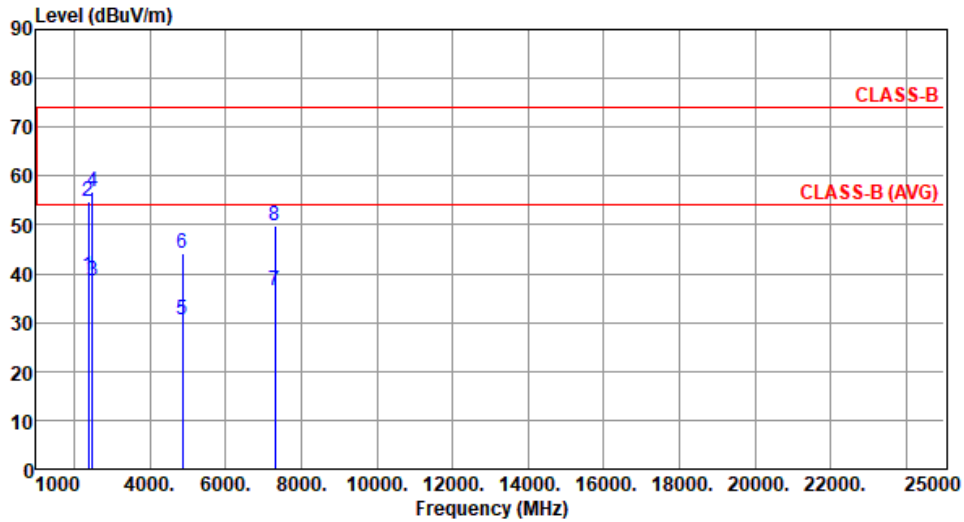
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	39.42	54.00	-14.58	42.17	-2.75	Average	125	114
2	2390.00	54.72	74.00	-19.28	57.47	-2.75	Peak	125	114
3	2483.50	38.60	54.00	-15.40	41.30	-2.70	Average	125	114
4	2483.50	56.79	74.00	-17.21	59.49	-2.70	Peak	125	114
5	4874.00	30.43	54.00	-23.57	26.30	4.13	Average	100	19
6	4874.00	44.01	74.00	-29.99	39.88	4.13	Peak	100	19
7	7311.00	36.57	54.00	-17.43	27.29	9.28	Average	100	24
8	7311.00	49.72	74.00	-24.28	40.44	9.28	Peak	100	24

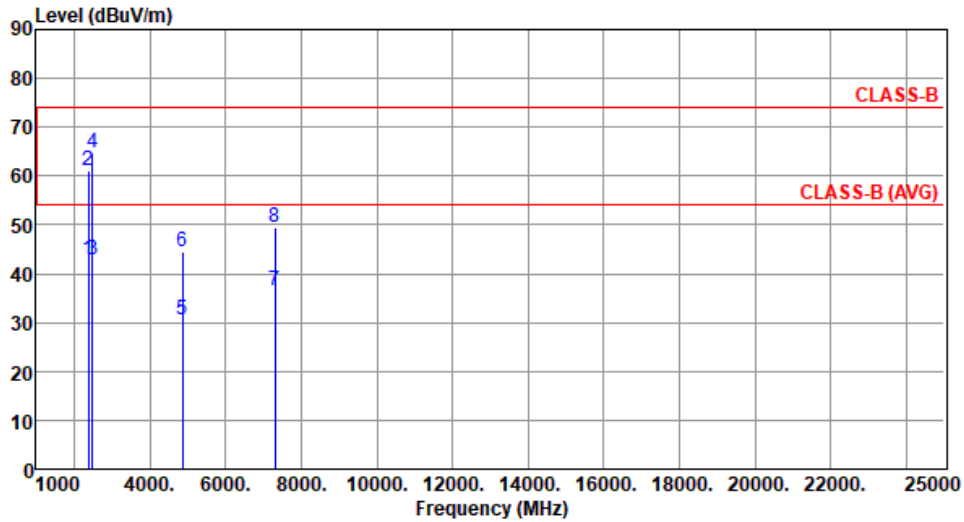
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	42.76	54.00	-11.24	45.51	-2.75	Average	223	64
2	2390.00	61.19	74.00	-12.81	63.94	-2.75	Peak	223	64
3	2483.50	42.71	54.00	-11.29	45.41	-2.70	Average	223	64
4	2483.50	64.90	74.00	-9.10	67.60	-2.70	Peak	223	64
5	4874.00	30.51	54.00	-23.49	26.38	4.13	Average	100	21
6	4874.00	44.40	74.00	-29.60	40.27	4.13	Peak	100	21
7	7311.00	36.41	54.00	-17.59	27.13	9.28	Average	100	36
8	7311.00	49.51	74.00	-24.49	40.23	9.28	Peak	100	36

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

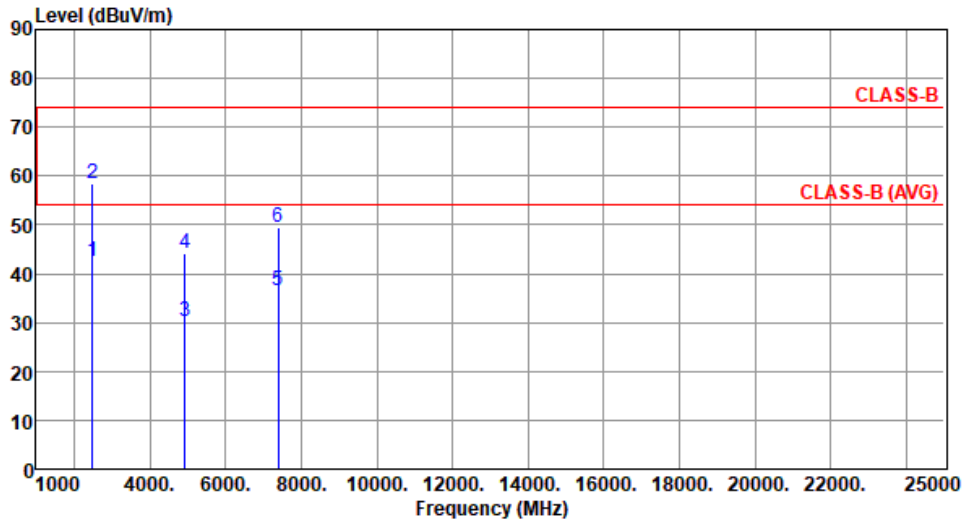
\*Factor includes antenna factor , cable loss and amplifier gain

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



<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2462
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	42.65	54.00	-11.35	45.35	-2.70	Average	124	115
2	2483.50	58.44	74.00	-15.56	61.14	-2.70	Peak	124	115
3	4924.00	30.25	54.00	-23.75	26.19	4.06	Average	100	31
4	4924.00	44.16	74.00	-29.84	40.10	4.06	Peak	100	31
5	7386.00	36.42	54.00	-17.58	27.17	9.25	Average	100	18
6	7386.00	49.61	74.00	-24.39	40.36	9.25	Peak	100	18

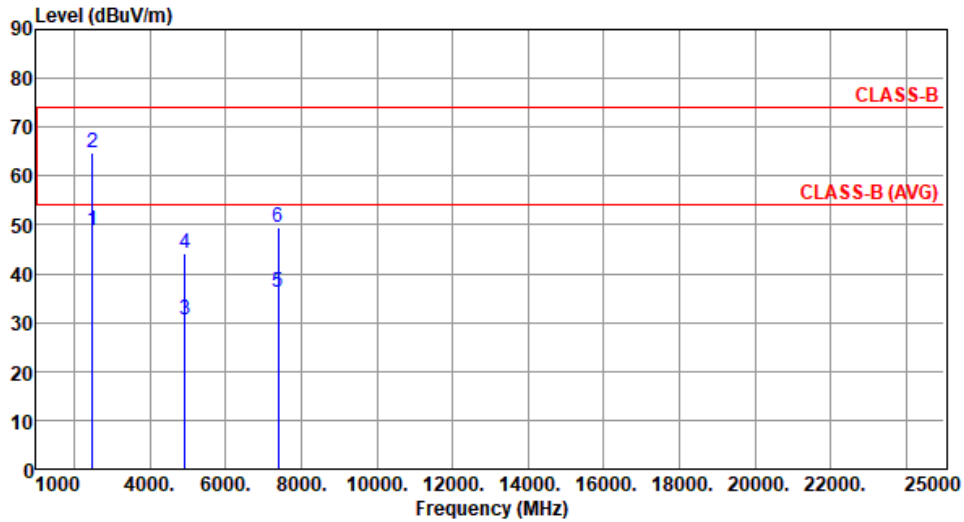
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	11g	<b>Test Freq. (MHz)</b>	2462
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



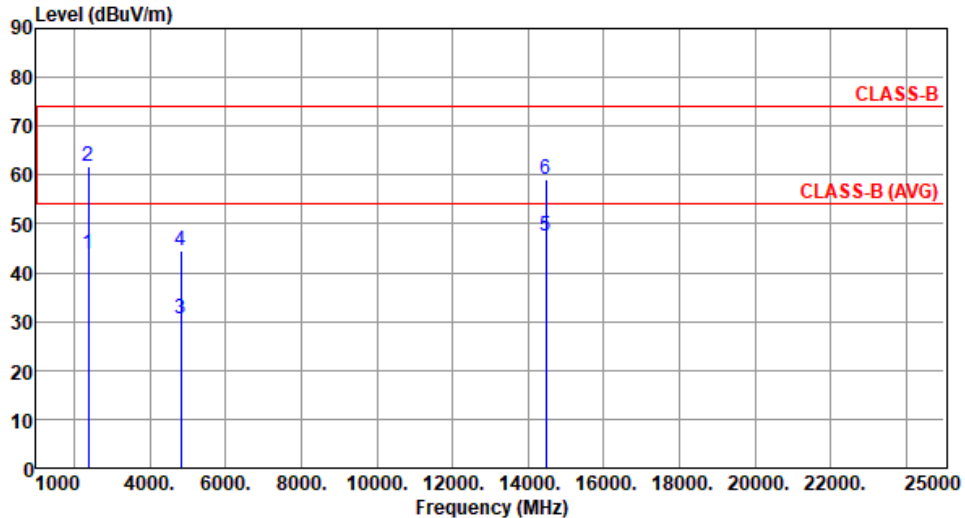
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	48.81	54.00	-5.19	51.51	-2.70	Average	217	38
2	2483.50	64.83	74.00	-9.17	67.53	-2.70	Peak	217	38
3	4924.00	30.48	54.00	-23.52	26.42	4.06	Average	100	15
4	4924.00	44.29	74.00	-29.71	40.23	4.06	Peak	100	15
5	7386.00	36.34	54.00	-17.66	27.09	9.25	Average	100	22
6	7386.00	49.45	74.00	-24.55	40.20	9.25	Peak	100	22

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

\*Factor includes antenna factor , cable loss and amplifier gain

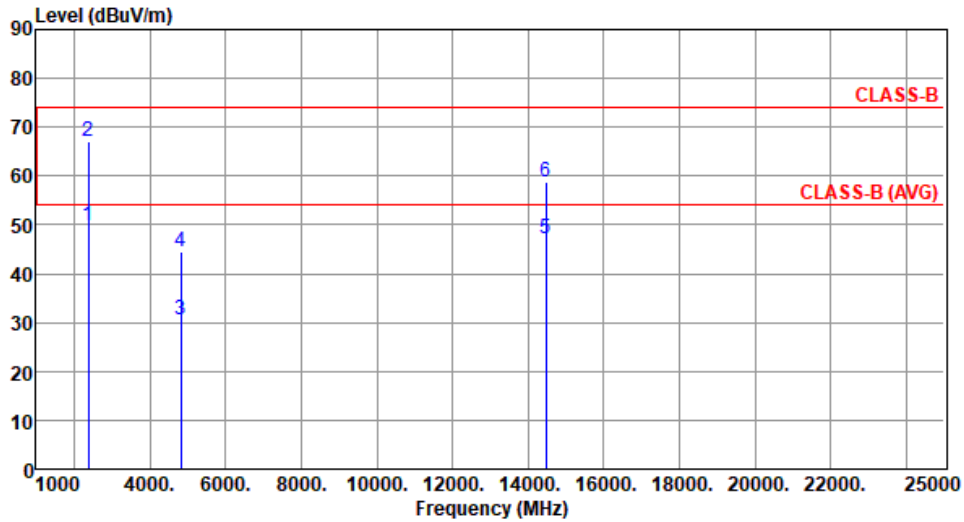
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

### 3.5.17 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT20

<b>Modulation</b>	HT20		<b>Test Freq. (MHz)</b>	2412					
<b>Polarization</b>	Horizontal								
Test By :Brad Wu		Temperature(°C):25		Humidity(%):61					
 <p>The graph plots Level (dBuV/m) on the y-axis (0 to 90) against Frequency (MHz) on the x-axis (1000 to 25000). Two horizontal red lines represent the CLASS-B limit at approximately 74 dBuV/m and the CLASS-B (AVG) limit at approximately 54 dBuV/m. Six vertical blue lines with markers 1 through 6 indicate specific emission points. Markers 1 and 2 are at 2390 MHz, marker 3 is at 4824 MHz, marker 4 is at 4824 MHz, marker 5 is at 14472 MHz, and marker 6 is at 14472 MHz.</p>									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High	Turn Table
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m		cm	deg
1	2390.00	43.82	54.00	-10.18	46.57	-2.75	Average	125	118
2	2390.00	61.65	74.00	-12.35	64.40	-2.75	Peak	125	118
3	4824.00	30.64	54.00	-23.36	26.50	4.14	Average	100	35
4	4824.00	44.38	74.00	-29.62	40.24	4.14	Peak	100	35
5	14472.00	47.62	54.00	-6.38	30.13	17.49	Average	134	248
6	14472.00	59.08	74.00	-14.92	41.59	17.49	Peak	134	248
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)            *Factor includes antenna factor , cable loss and amplifier gain            Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

<b>Modulation</b>	HT20	<b>Test Freq. (MHz)</b>	2412
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	49.85	54.00	-4.15	52.60	-2.75	Average	211	18
2	2390.00	67.10	74.00	-6.90	69.85	-2.75	Peak	211	18
3	4824.00	30.55	54.00	-23.45	26.41	4.14	Average	100	41
4	4824.00	44.63	74.00	-29.37	40.49	4.14	Peak	100	41
5	14472.00	47.16	54.00	-6.84	29.67	17.49	Average	208	16
6	14472.00	58.65	74.00	-15.35	41.16	17.49	Peak	208	16

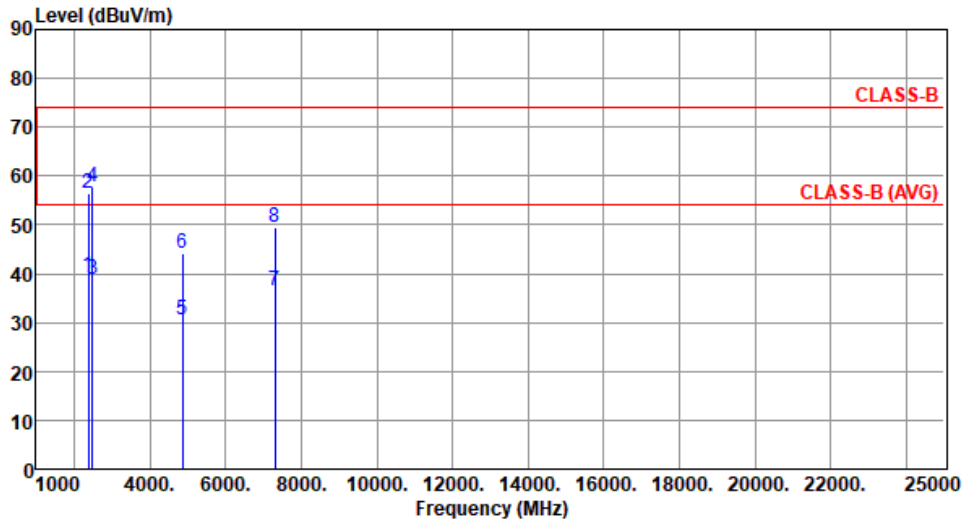
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	HT20	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	39.51	54.00	-14.49	42.26	-2.75	Average	122	118
2	2390.00	56.48	74.00	-17.52	59.23	-2.75	Peak	122	118
3	2483.50	38.92	54.00	-15.08	41.62	-2.70	Average	122	118
4	2483.50	57.94	74.00	-16.06	60.64	-2.70	Peak	122	118
5	4874.00	30.56	54.00	-23.44	26.43	4.13	Average	100	18
6	4874.00	44.25	74.00	-29.75	40.12	4.13	Peak	100	18
7	7311.00	36.42	54.00	-17.58	27.14	9.28	Average	100	11
8	7311.00	49.64	74.00	-24.36	40.36	9.28	Peak	100	11

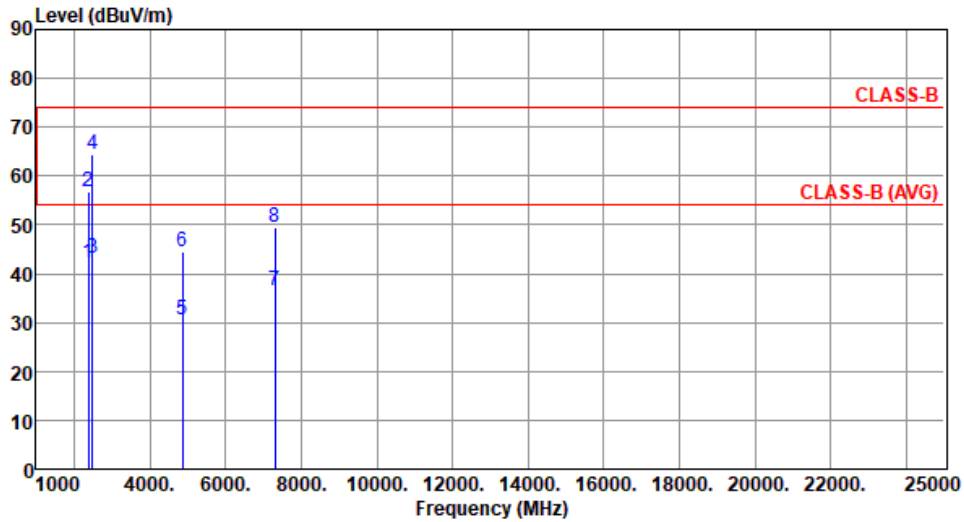
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	HT20	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	42.22	54.00	-11.78	44.97	-2.75	Average	202	17
2	2390.00	56.64	74.00	-17.36	59.39	-2.75	Peak	202	17
3	2483.50	43.13	54.00	-10.87	45.83	-2.70	Average	202	17
4	2483.50	64.48	74.00	-9.52	67.18	-2.70	Peak	202	17
5	4874.00	30.65	54.00	-23.35	26.52	4.13	Average	100	29
6	4874.00	44.58	74.00	-29.42	40.45	4.13	Peak	100	29
7	7311.00	36.55	54.00	-17.45	27.27	9.28	Average	100	47
8	7311.00	49.64	74.00	-24.36	40.36	9.28	Peak	100	47

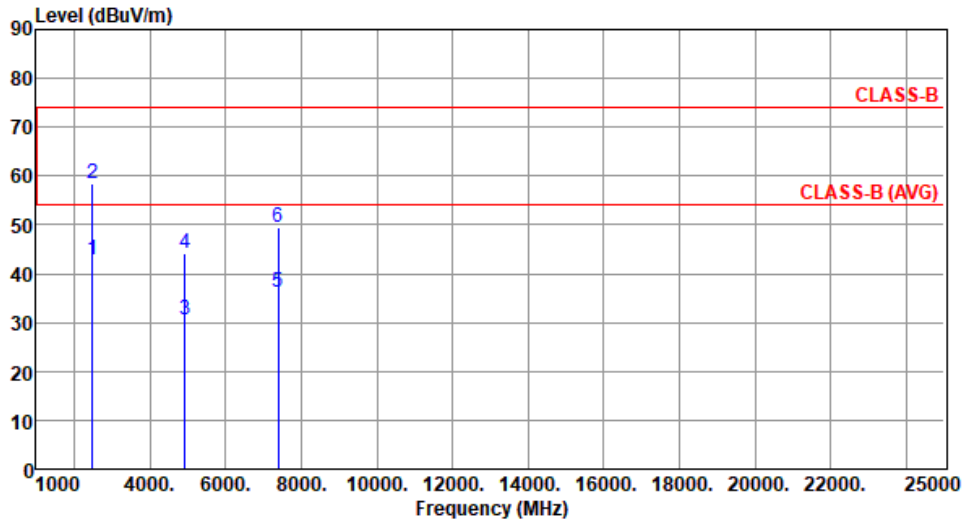
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	HT20	<b>Test Freq. (MHz)</b>	2462
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	42.81	54.00	-11.19	45.51	-2.70	Average	126	118
2	2483.50	58.56	74.00	-15.44	61.26	-2.70	Peak	126	118
3	4924.00	30.44	54.00	-23.56	26.38	4.06	Average	100	57
4	4924.00	44.28	74.00	-29.72	40.22	4.06	Peak	100	57
5	7386.00	36.29	54.00	-17.71	27.04	9.25	Average	100	46
6	7386.00	49.51	74.00	-24.49	40.26	9.25	Peak	100	46

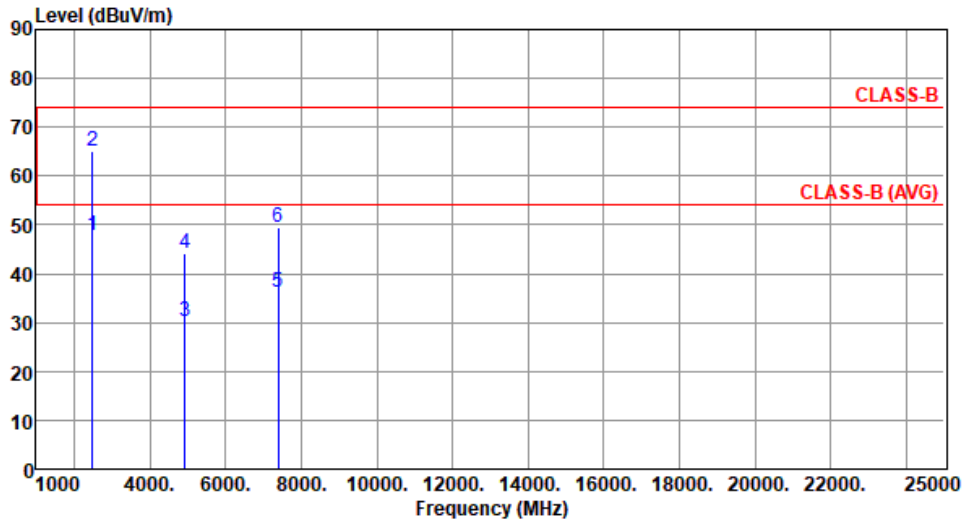
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	HT20	<b>Test Freq. (MHz)</b>	2462
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	47.98	54.00	-6.02	50.68	-2.70	Average	201	46
2	2483.50	65.21	74.00	-8.79	67.91	-2.70	Peak	201	46
3	4924.00	30.31	54.00	-23.69	26.25	4.06	Average	100	23
4	4924.00	44.16	74.00	-29.84	40.10	4.06	Peak	100	23
5	7386.00	36.25	54.00	-17.75	27.00	9.25	Average	100	22
6	7386.00	49.33	74.00	-24.67	40.08	9.25	Peak	100	22

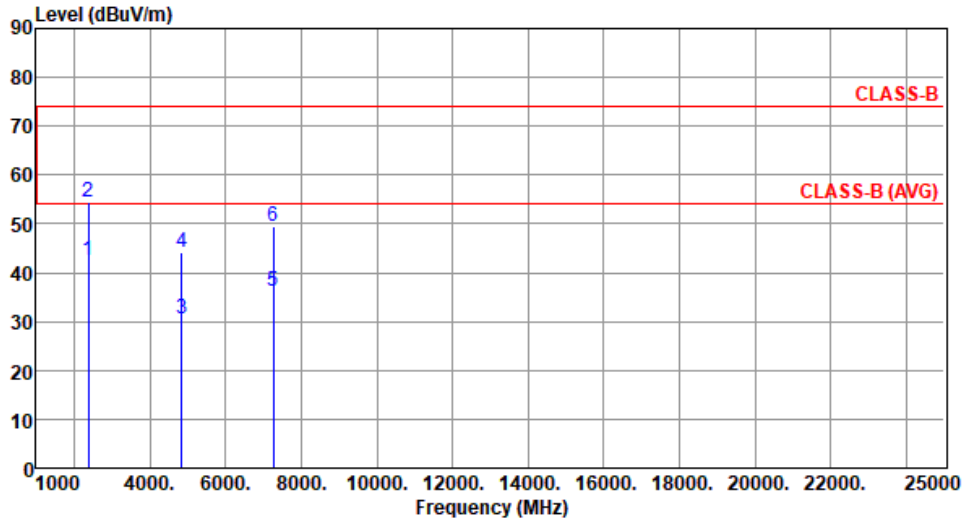
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

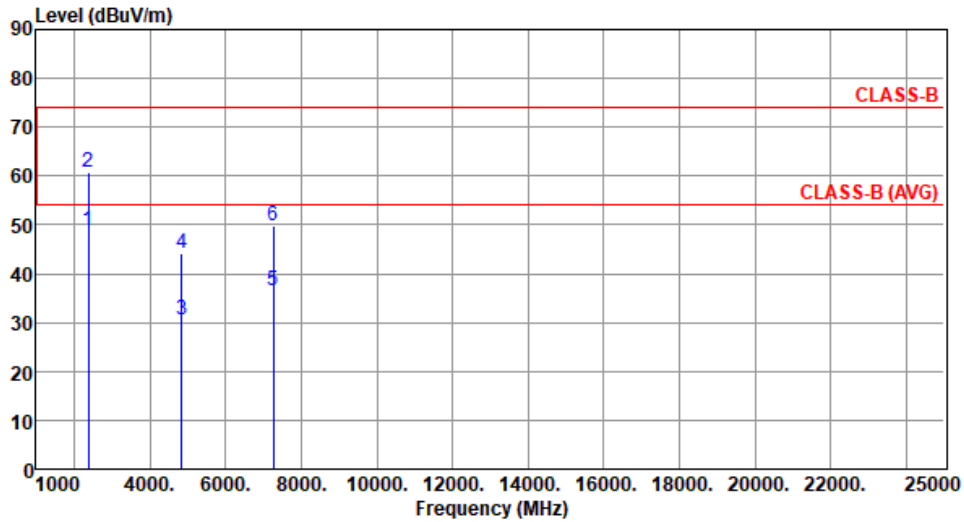


### 3.5.18 Transmitter Radiated Unwanted Emissions (Above 1GHz) for HT40

<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	2422						
<b>Polarization</b>	Horizontal								
Test By :Brad Wu      Temperature(°C):25      Humidity(%):61									
									
	Freq.	Emission level	Limit	Margin	SA reading	Factor	Remark	ANT High cm	Turn Table deg
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m			
1	2390.00	42.61	54.00	-11.39	45.36	-2.75	Average	121	119
2	2390.00	54.55	74.00	-19.45	57.30	-2.75	Peak	121	119
3	4844.00	30.46	54.00	-23.54	26.30	4.16	Average	100	36
4	4844.00	44.19	74.00	-29.81	40.03	4.16	Peak	100	36
5	7266.00	36.31	54.00	-17.69	27.08	9.23	Average	100	17
6	7266.00	49.58	74.00	-24.42	40.35	9.23	Peak	100	17
<p>Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor* (dB/m)          *Factor includes antenna factor , cable loss and amplifier gain          Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).</p>									

<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	2422
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	48.76	54.00	-5.24	51.51	-2.75	Average	209	28
2	2390.00	60.64	74.00	-13.36	63.39	-2.75	Peak	209	28
3	4844.00	30.42	54.00	-23.58	26.26	4.16	Average	100	31
4	4844.00	44.29	74.00	-29.71	40.13	4.16	Peak	100	31
5	7266.00	36.61	54.00	-17.39	27.38	9.23	Average	100	26
6	7266.00	49.72	74.00	-24.28	40.49	9.23	Peak	100	26

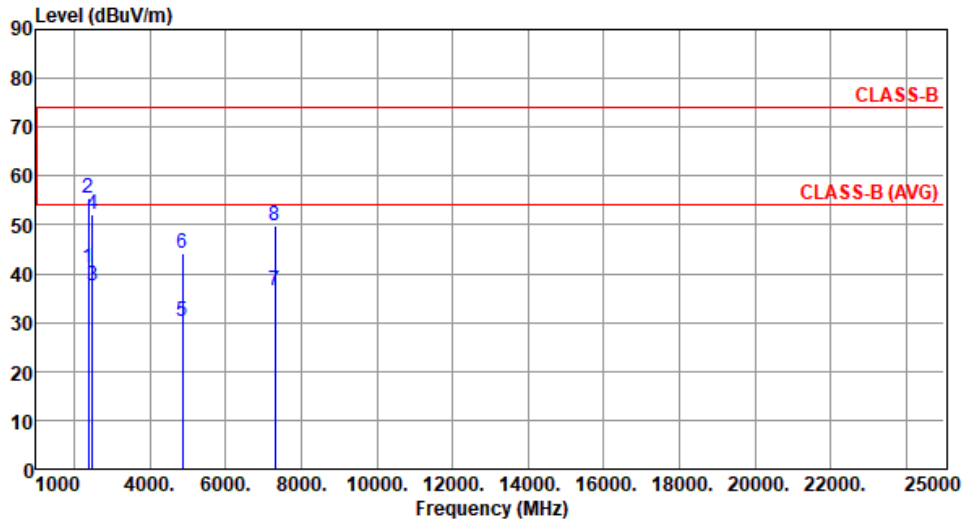
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	41.29	54.00	-12.71	44.04	-2.75	Average	125	119
2	2390.00	55.34	74.00	-18.66	58.09	-2.75	Peak	125	119
3	2483.50	37.69	54.00	-16.31	40.39	-2.70	Average	125	119
4	2483.50	52.11	74.00	-21.89	54.81	-2.70	Peak	125	119
5	4874.00	30.25	54.00	-23.75	26.12	4.13	Average	100	27
6	4874.00	44.06	74.00	-29.94	39.93	4.13	Peak	100	27
7	7311.00	36.51	54.00	-17.49	27.23	9.28	Average	100	24
8	7311.00	49.68	74.00	-24.32	40.40	9.28	Peak	100	24

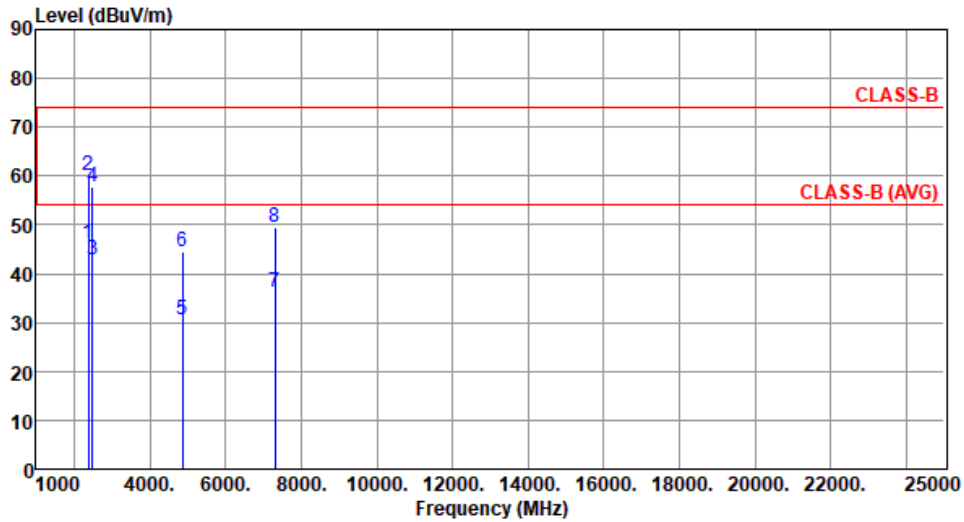
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	2437
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2390.00	46.12	54.00	-7.88	48.87	-2.75	Average	212	19
2	2390.00	60.21	74.00	-13.79	62.96	-2.75	Peak	212	19
3	2483.50	42.99	54.00	-11.01	45.69	-2.70	Average	193	17
4	2483.50	57.67	74.00	-16.33	60.37	-2.70	Peak	193	17
5	4874.00	30.46	54.00	-23.54	26.33	4.13	Average	100	27
6	4874.00	44.35	74.00	-29.65	40.22	4.13	Peak	100	27
7	7311.00	36.31	54.00	-17.69	27.03	9.28	Average	100	14
8	7311.00	49.58	74.00	-24.42	40.30	9.28	Peak	100	14

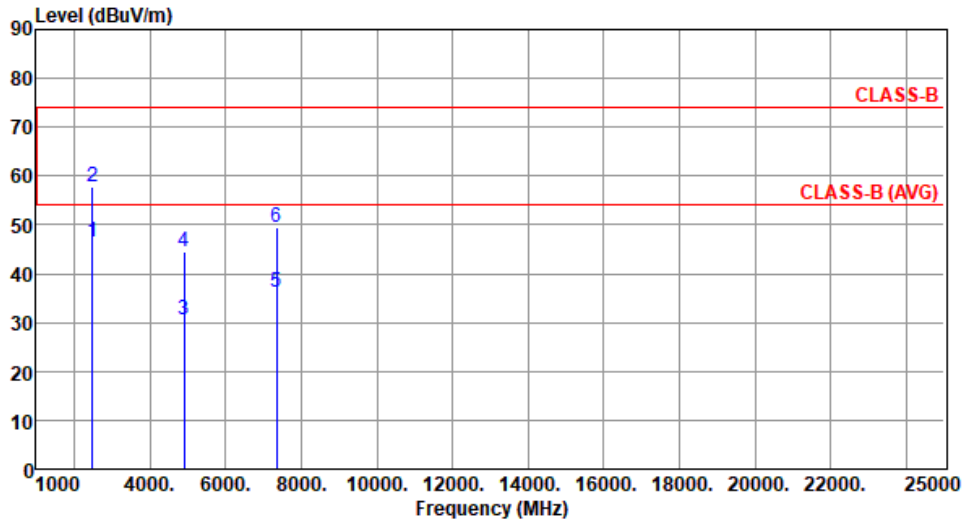
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	2452
<b>Polarization</b>	Horizontal		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	46.55	54.00	-7.45	49.25	-2.70	Average	124	119
2	2483.50	57.84	74.00	-16.16	60.54	-2.70	Peak	124	119
3	4904.00	30.55	54.00	-23.45	26.46	4.09	Average	100	33
4	4904.00	44.41	74.00	-29.59	40.32	4.09	Peak	100	33
5	7356.00	36.14	54.00	-17.86	26.88	9.26	Average	100	38
6	7356.00	49.35	74.00	-24.65	40.09	9.26	Peak	100	38

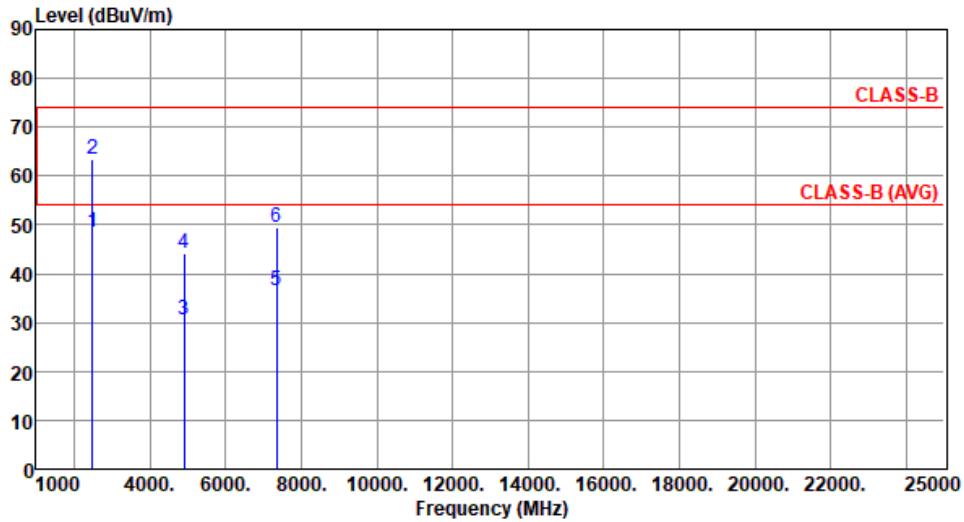
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV) + Factor\* (dB/m)

\*Factor includes antenna factor , cable loss and amplifier gain

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

<b>Modulation</b>	HT40	<b>Test Freq. (MHz)</b>	2452
<b>Polarization</b>	Vertical		

Test By :Brad Wu      Temperature(°C):25      Humidity(%):61



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB/m	Remark	ANT High cm	Turn Table deg
1	2483.50	48.61	54.00	-5.39	51.31	-2.70	Average	193	19
2	2483.50	63.33	74.00	-10.67	66.03	-2.70	Peak	193	19
3	4904.00	30.48	54.00	-23.52	26.39	4.09	Average	100	35
4	4904.00	44.29	74.00	-29.71	40.20	4.09	Peak	100	35
5	7356.00	36.48	54.00	-17.52	27.22	9.26	Average	100	42
6	7356.00	49.51	74.00	-24.49	40.25	9.26	Peak	100	42

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

\*Factor includes antenna factor , cable loss and amplifier gain

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

## 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 20 dB relative to the maximum in-band peak PSD level in 100 kHz.

### 3.6.2 Test Procedures

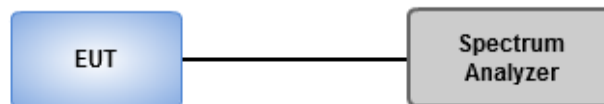
#### Reference level measurement

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

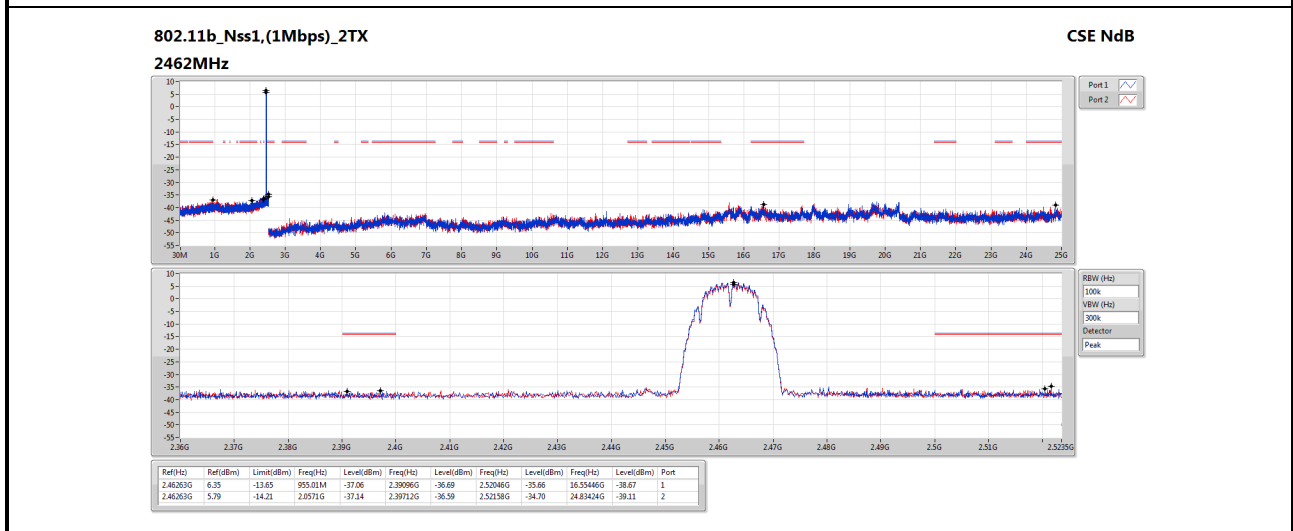
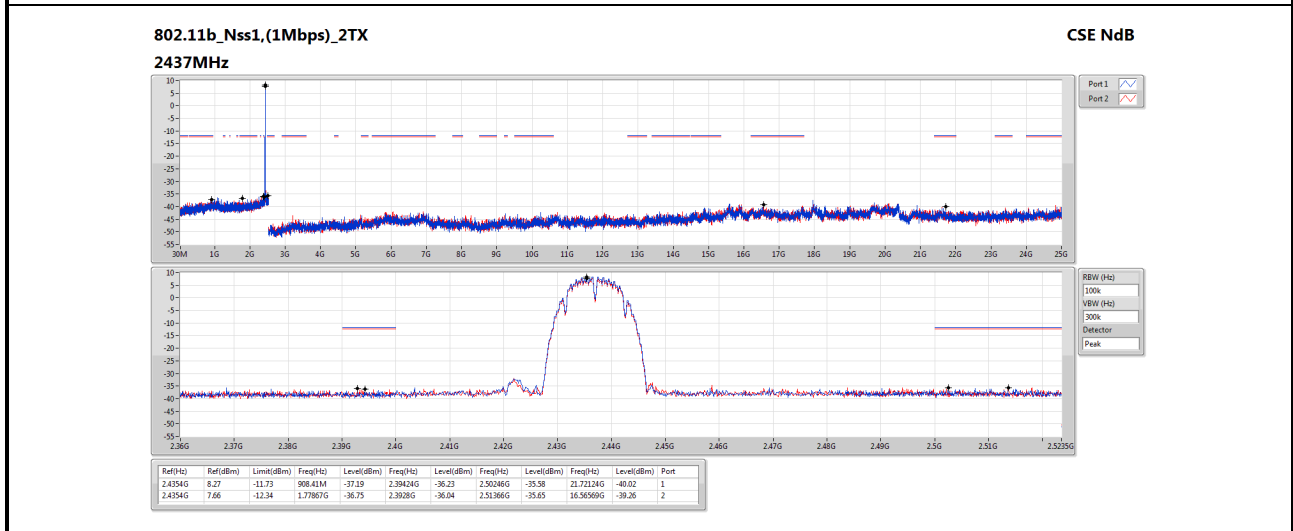
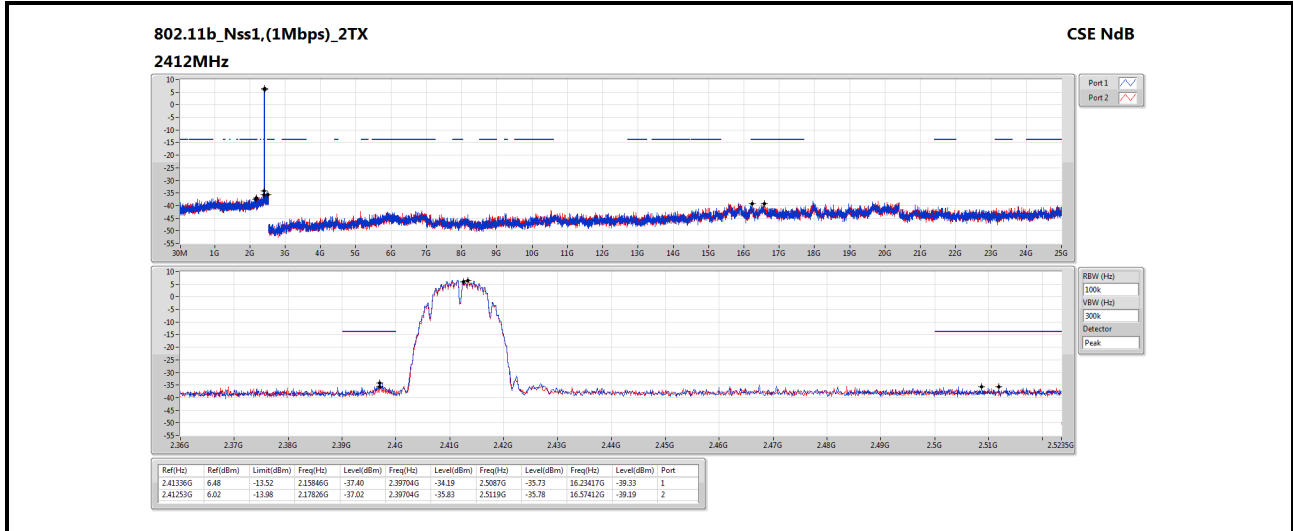
1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

### 3.6.3 Test Setup



### 3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands

Ambient Condition	22°C / 66%	Tested By	Aska Huang
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802.11g\_Nss1,(6Mbps)\_2TX

CSE NdB

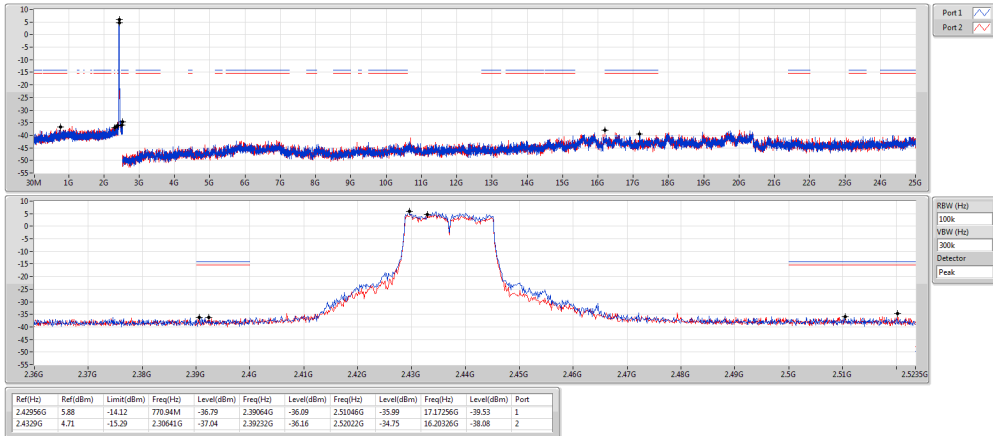
2412MHz



802.11g\_Nss1,(6Mbps)\_2TX

CSE NdB

2437MHz

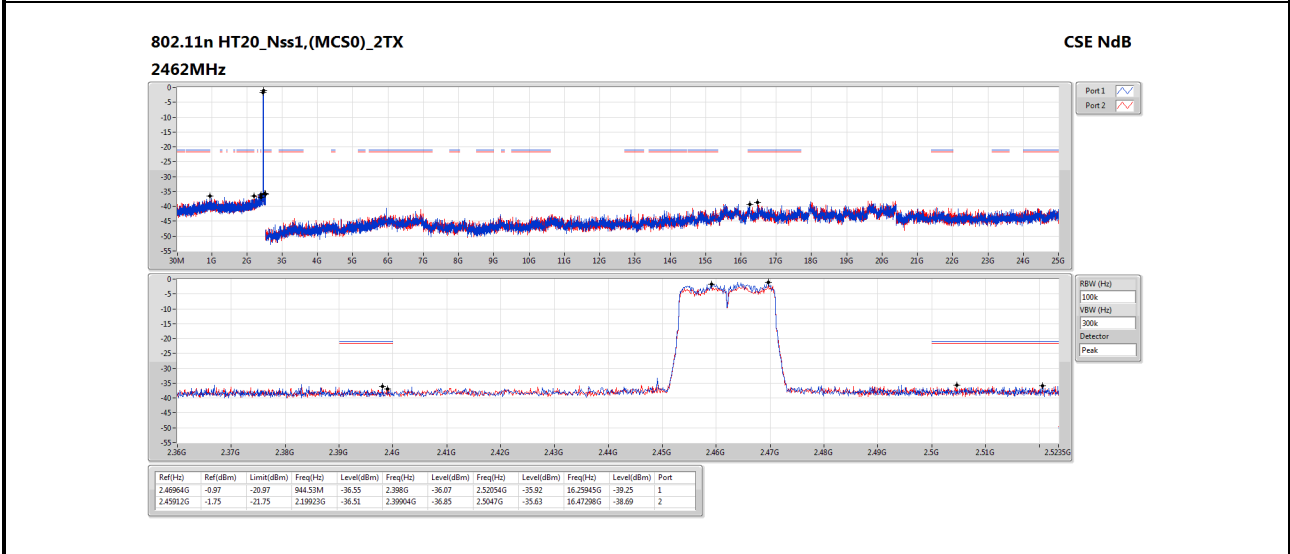
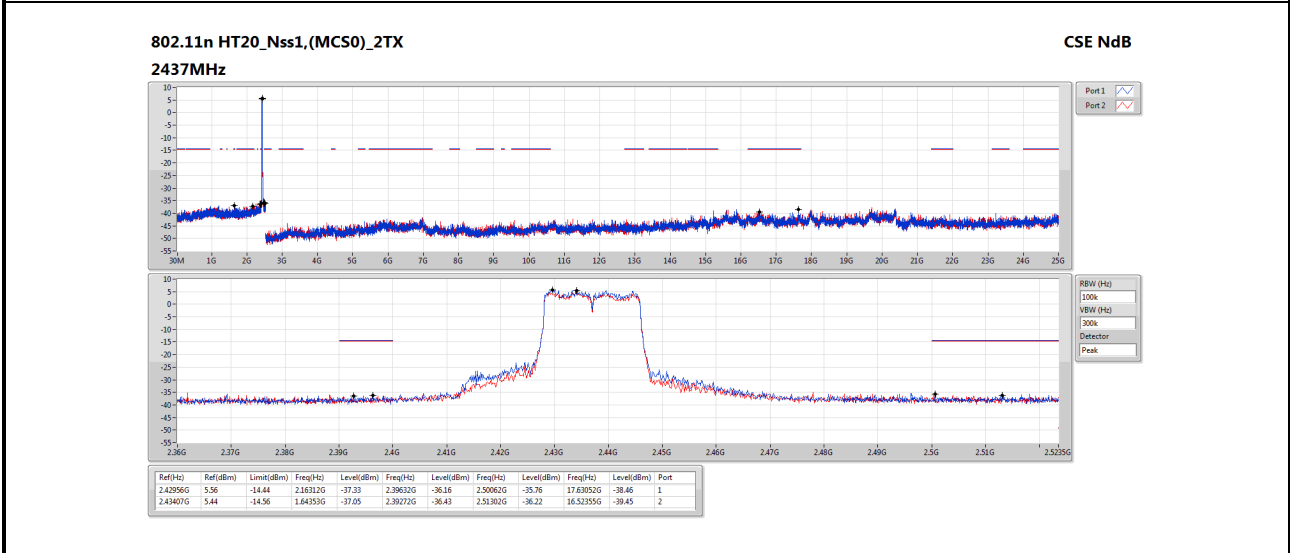
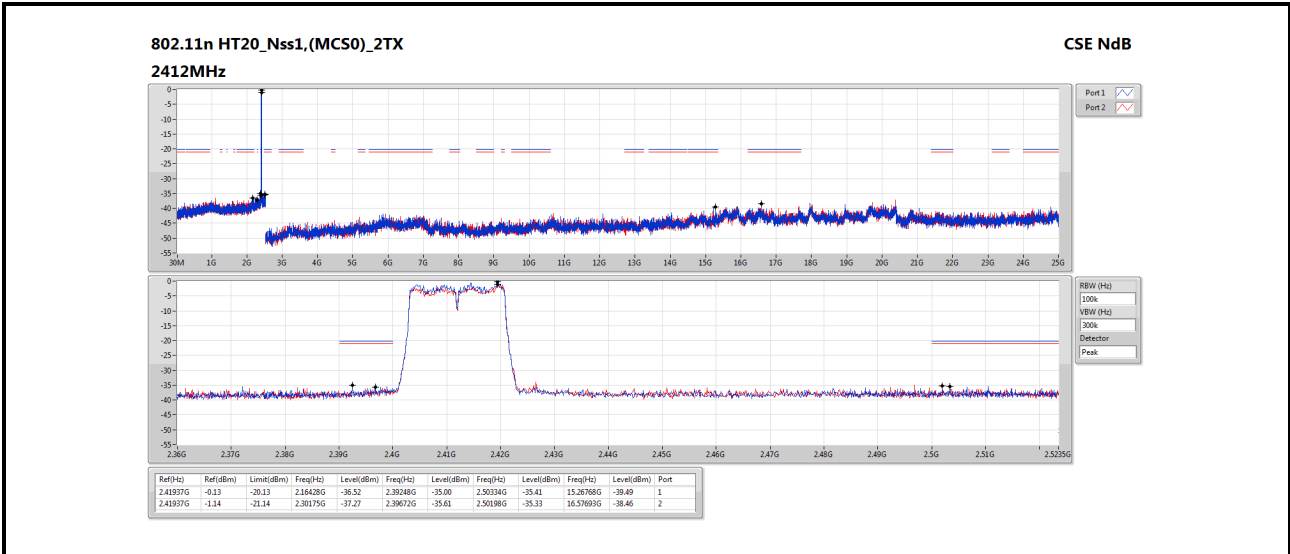


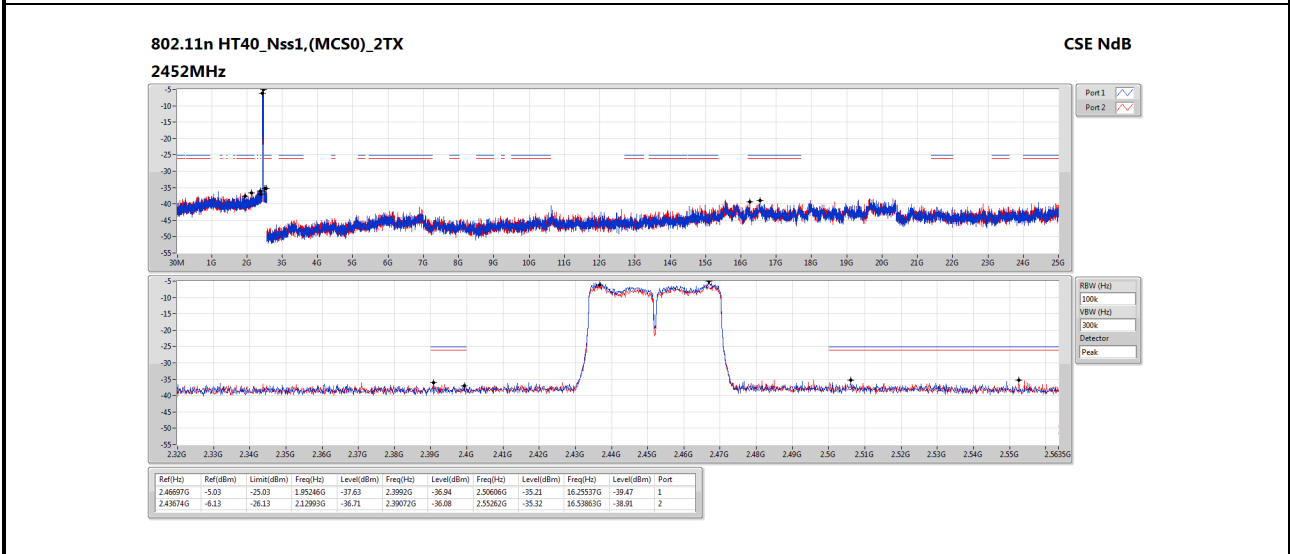
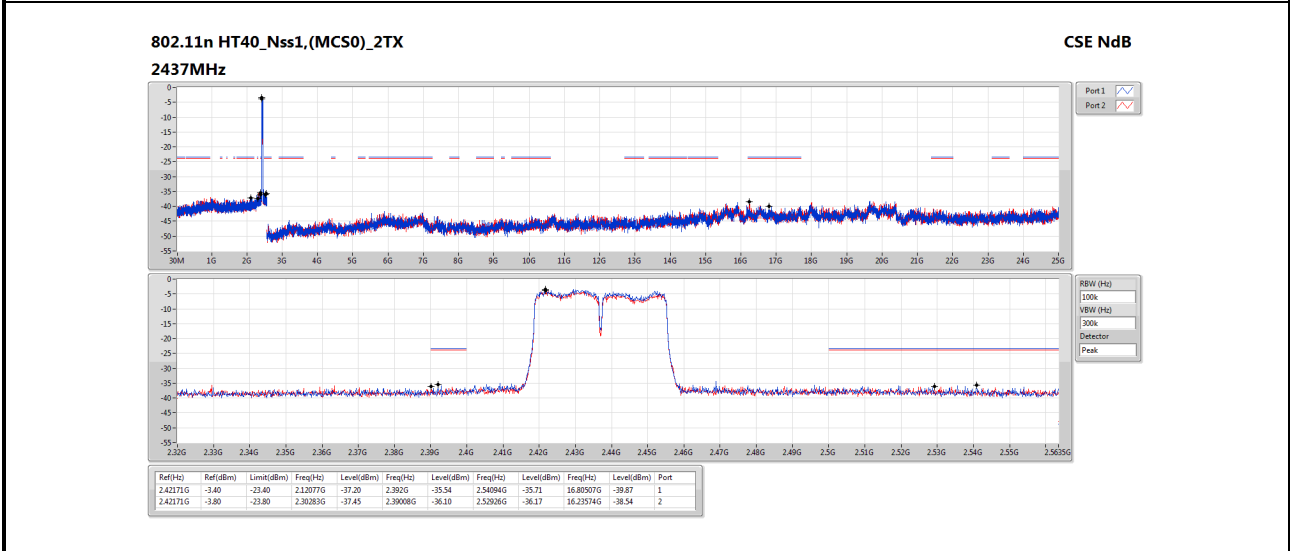
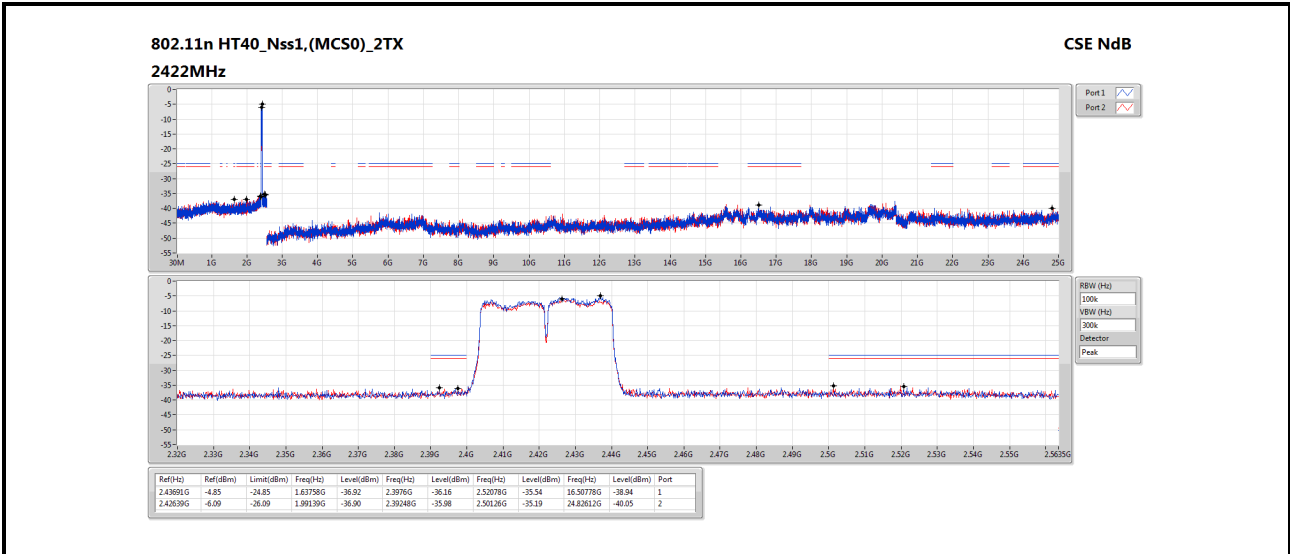
802.11g\_Nss1,(6Mbps)\_2TX

CSE NdB

2462MHz







## 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 Corporation (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 Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

No.2-1, Lane 6, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 33381, Taiwan (R.O.C.)

### **Kwei Shan Site II**

Tel: 886-3-271-8640

No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., 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: 886-3-318-0345

Email: ICC\_Service@icertifi.com.tw

==END==