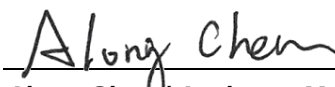


FCC Test Report

FCC ID : 2AQ68-GME840U-915U
Equipment : Wireless Gateway
Model No. : GME840U-915U
Multiple Listing : Refer to item 1.1.1 for more details.
Applicant : HON LIN TECHNOLOGY CO., LTD.
Address : 11F, No.32, Jihu Rd., Neihu Dist., Taipei
City, Taiwan 114
Standard : 47 CFR FCC Part 15.247
Received Date : Sep. 04, 2020
Tested Date : Sep. 30 ~ Oct. 23, 2020

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

Reviewed by:


Along Chen / Assistant Manager

Approved by:

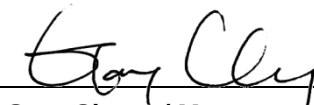

Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR970401-04AC	Rev. 01	Initial issue	Nov. 10, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.428MHz 43.46 (Margin -3.83dB) - AV	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2483.50MHz 72.01 (Margin -1.99dB) - PK	Pass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: 20.23	Pass
15.247(a)(2)	6dB Bandwidth	Meet the requirement of limit	Pass
15.247(e)	Power Spectral Density	Meet the requirement of limit	Pass
15.203	Antenna Requirement	Meet the requirement of limit	Pass

Declaration of Conformity:

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

Comments and Explanations:

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

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Model Name	Description	Remark
GME840U-915U	without LTE function	PCB is identical to each model. Difference between both models is only certified LTE module (FCC ID: ZMOL850GL) is embed or not.
GML840U-915U	with LTE function	

1.1.2 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	1	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	1	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1	MCS 0-7
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	1	MCS 0-7
Note 1: RF output power specifies that Maximum Peak Conducted Output Power. Note 2: 802.11b uses a combination of DSSS-DBPSK, DQPSK, CCK modulation. Note 3: 802.11g/n uses a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.					

1.1.3 Antenna Details

Ant. No.	Model	Type	Connector	Gain (dBi)
1	ANTP2M2-CZZ08-EH	PIFA	IPEX	2.75

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type 1 (PoE)	I/P: 100-240Vac, 50/60Hz, 1.5A max. O/P: 50Vdc, 1.2A
Power Supply Type 2 (DC power source)	I/P: 11-57Vdc O/P: 10.8Vdc, 2.36A

1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	POE	Brand: Gospell Model: G0566-500-120 Power Rating: I/P: 100-240Vac, 50/60Hz, 1.5A max. O/P: 50Vdc, 1.2A Power Line: 0.67m non-shielded without core
2	Ground cable	1m non-shielded without core
3	Jumper cable for Lora	0.609m non-shielded without core
4	GPS Antenna	Brand: INPAQ Model: GPSSLONASS08H-S6-1510

1.1.6 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	---	---

1.1.7 Test Tool and Duty Cycle

Test Tool	Putty command, V0.6		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11b	99.31%	0.03
	11g	92.75%	0.33
	HT20	91.43%	0.39
	HT40	82.39%	0.84

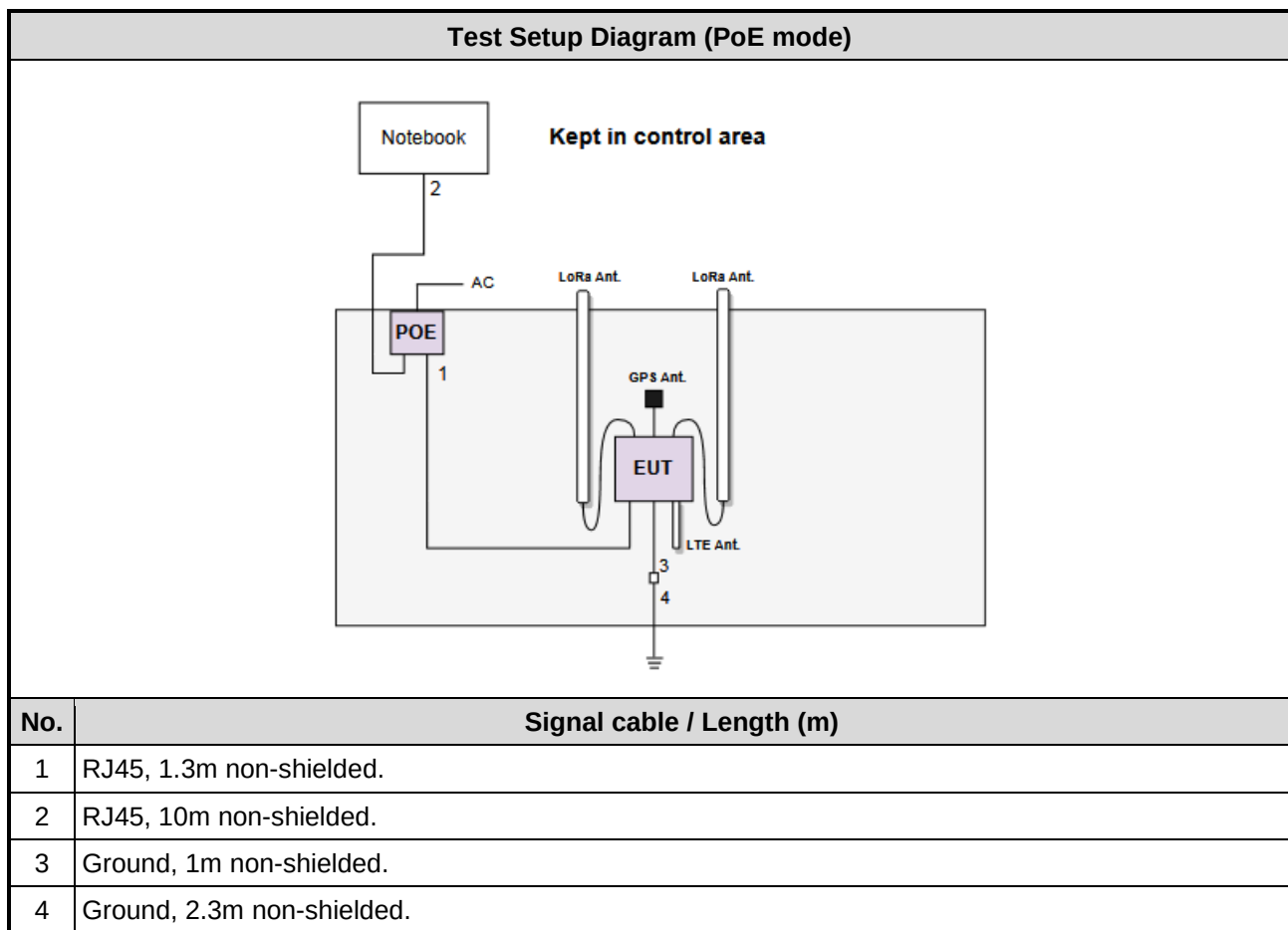
1.1.8 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11b	2412	20000
11b	2437	20000
11b	2462	20000
11g	2412	20000
11g	2437	20000
11g	2462	20000
HT20	2412	20000
HT20	2437	20000
HT20	2462	20000
HT40	2422	20000
HT40	2437	20000
HT40	2452	20000

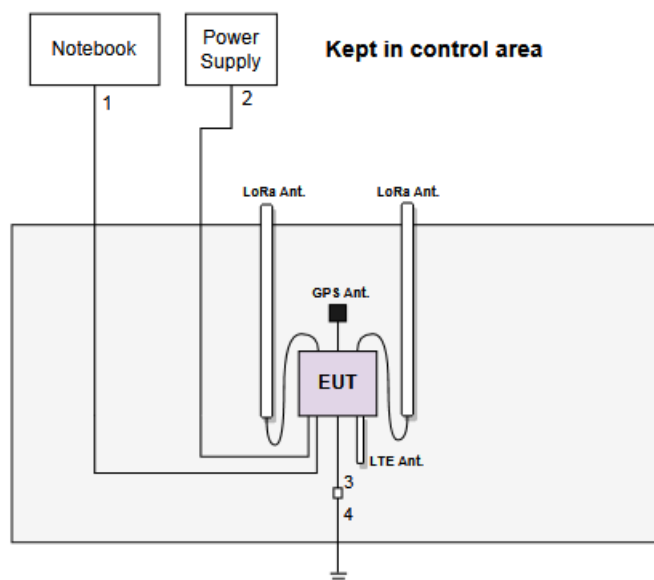
1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E5420	DoC	---

1.3 Test Setup Chart



Test Setup Diagram (DC mode)



No.	Signal cable / Length (m)
1	RJ45, 10m non-shielded.
2	DC, 10m non-shielded.
3	Ground, 1m non-shielded.
4	Ground, 2.3m non-shielded.

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Oct. 23, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101658	Dec. 12, 2019	Dec. 11, 2020
LISN	R&S	ENV216	101579	Mar. 12, 2020	Mar. 11, 2021
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 21, 2020	Oct. 20, 2021
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Sep. 30, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Jan. 09, 2020	Jan. 08, 2021
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 29, 2020	Apr. 28, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 27, 2019	Dec. 26, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980187	Aug. 05, 2020	Aug. 04, 2021
Preamplifier	Agilent	83017A	MY39501309	Sep. 02, 2020	Sep. 01, 2021
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 26, 2020	Sep. 25, 2021
RF cable-8M	EMC	EMC104-SM-SM-8000	181107	Sep. 26, 2020	Sep. 25, 2021
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Sep. 26, 2020	Sep. 25, 2021
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Sep. 26, 2020	Sep. 25, 2021
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Sep. 26, 2020	Sep. 25, 2021
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Sep. 26, 2020	Sep. 25, 2021
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber3 / (03CH03-WS)				
Tested Date	Oct. 21, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101499	Jan. 09, 2020	Jan. 08, 2021
Receiver	R&S	ESR3	101657	Feb. 14, 2020	Feb. 13, 2021
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 29, 2020	Apr. 28, 2021
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Dec. 27, 2019	Dec. 26, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 06, 2020	Oct. 05, 2021
Preamplifier	EMC	EMC02325	980187	Aug. 05, 2020	Aug. 04, 2021
Preamplifier	Agilent	83017A	MY39501309	Sep. 02, 2020	Sep. 01, 2021
Preamplifier	EMC	EMC184045B	980192	Jul. 21, 2020	Jul. 20, 2021
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Sep. 26, 2020	Sep. 25, 2021
RF cable-8M	EMC	EMC104-SM-SM-80 00	181107	Sep. 26, 2020	Sep. 25, 2021
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Sep. 26, 2020	Sep. 25, 2021
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800 -001	Sep. 26, 2020	Sep. 25, 2021
LF cable-3M	EMC	EMC8D-NM-NM-300 0	131103	Sep. 26, 2020	Sep. 25, 2021
LF cable-13M	EMC	EMC8D-NM-NM-130 00	131104	Sep. 26, 2020	Sep. 25, 2021
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Oct. 21, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 30, 2020	Apr. 29, 2021
Power Meter	Anritsu	ML2495A	1241002	Oct. 23, 2019	Oct. 22, 2020
Power Sensor	Anritsu	MA2411B	1207366	Oct. 23, 2019	Oct. 22, 2020
DC POWER SOURCE	GW INSTEK	GPC-6030D	GES855395	Oct. 29, 2019	Oct. 28, 2020
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 02, 2019	Dec. 01, 2020
Measurement Software	ICC	SENSE-15247_DTS	V5.10.7	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

1.7 Deviation from Test Standard and Measurement Procedure

None

1.8 Measurement Uncertainty

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

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.130 Hz
Conducted power	± 0.808 dB
Power density	± 0.583 dB
Conducted emission	± 2.715 dB
AC conducted emission	± 2.92 dB
Radiated emission ≤ 1 GHz	± 3.96 dB
Radiated emission > 1 GHz	± 4.51 dB

2 Test Configuration

2.1 Testing Facility

Test Laboratory	International Certification Corp.
Test Site	CO01-WS, TH01-WS
Address of Test Site	No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.
Test Site	03CH03-WS
Address of Test Site	No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan District, Tao Yuan City 333, Taiwan, R.O.C.

- FCC Designation No.: TW0009
- FCC site registration No.: 207696
- ISED#: 10807A
- CAB identifier: TW2732

2.2 The Worst Test Modes and Channel Details

Test item	Modulation Mode	Test Frequency (MHz)	Data Rate	Test Configuration
Conducted Emissions	11g	2437	6 Mbps	1, 2
Radiated Emissions ≤1GHz	11g	2437	6 Mbps	1, 2
Radiated Emissions >1GHz	11b	2412 / 2437 / 2462	1 Mbps	1
Maximum Output Power	11g	2412 / 2437 / 2462	6 Mbps	
6dB bandwidth	HT20	2412 / 2437 / 2462	MCS 0	
Power spectral density	HT40	2422 / 2437 / 2452	MCS 0	

NOTE:

1. This device consumes power from POE or DC power source. Each power supply was selected for final testing as below configuration.
Test configurations are listed as below:
 - 1) Test Configuration 1: POE mode
 - 2) Test Configuration 2: DC mode

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

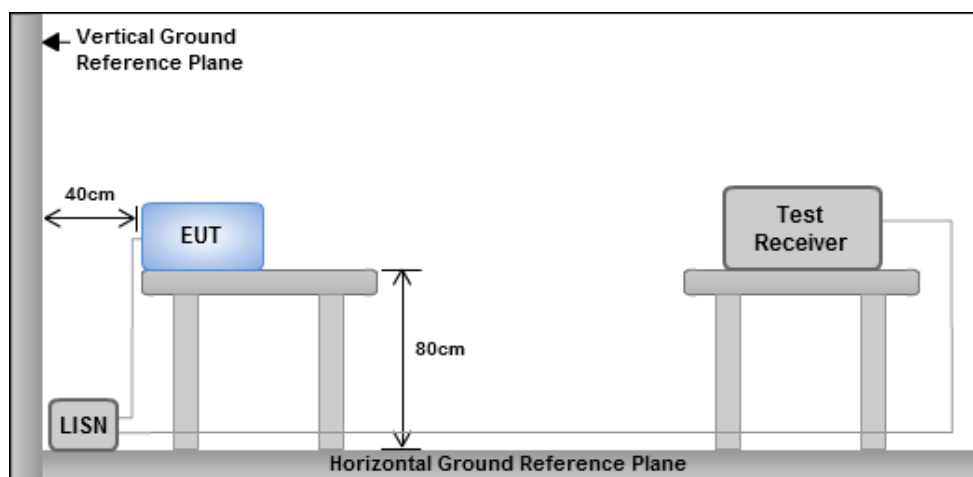
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

3.1.2 Test Procedures

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

3.1.3 Test Setup

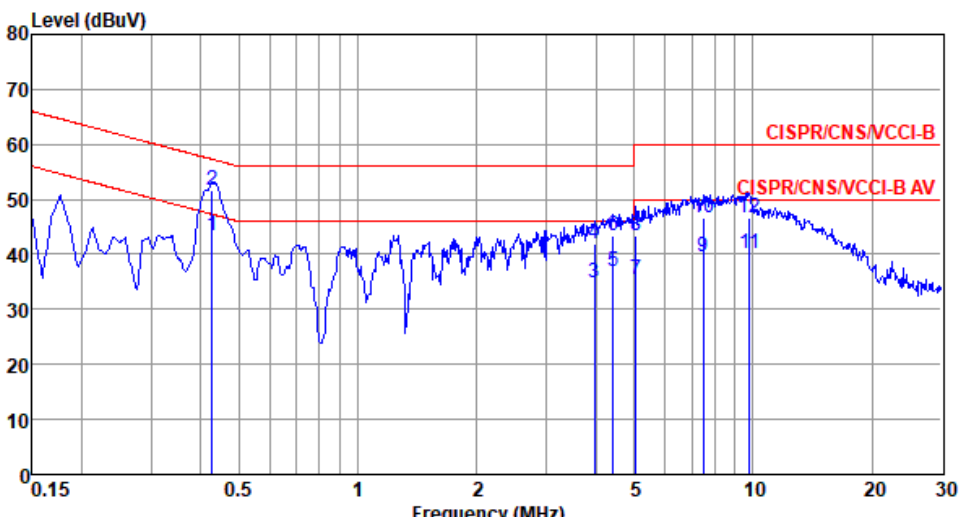


- Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.4 Test Result of Conducted Emissions

Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line	Test Configuration	1

Test by : Alex Tsai Temperature: 25°C Humidity: 61%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.428	43.46	47.29	-3.83	33.49	9.63	0.08	Average
2	0.428	51.65	57.29	-5.64	41.68	9.63	0.08	QP
3	3.964	34.86	46.00	-11.14	24.55	9.65	0.29	Average
4	3.964	41.79	56.00	-14.21	31.48	9.65	0.29	QP
5	4.430	36.92	46.00	-9.08	26.60	9.65	0.30	Average
6	4.430	43.27	56.00	-12.73	32.95	9.65	0.30	QP
7	5.058	35.56	50.00	-14.44	25.20	9.66	0.32	Average
8	5.058	43.31	60.00	-16.69	32.95	9.66	0.32	QP
9	7.486	39.70	50.00	-10.30	29.27	9.68	0.36	Average
10	7.486	46.51	60.00	-13.49	36.08	9.68	0.36	QP
11	9.809	40.27	50.00	-9.73	29.79	9.69	0.39	Average
12	9.809	46.75	60.00	-13.25	36.27	9.69	0.39	QP

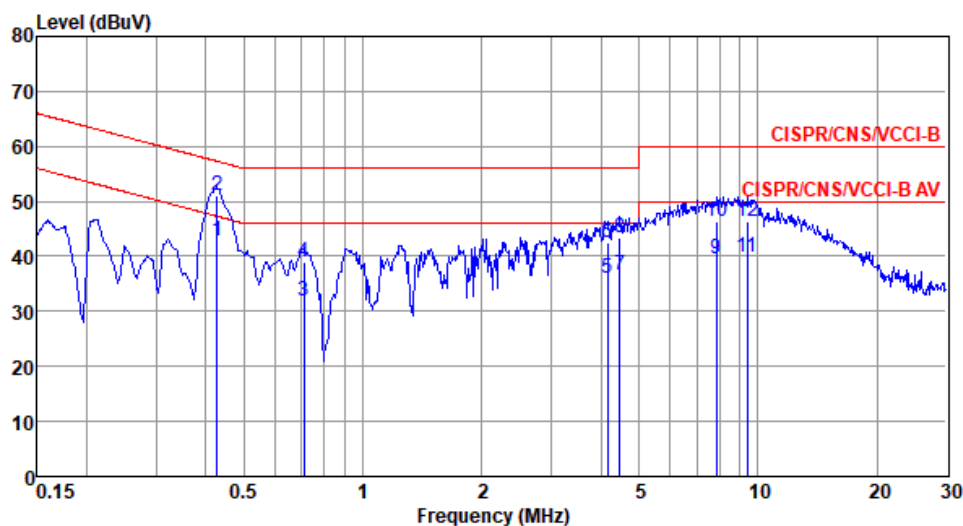
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

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

Test by : Alex Tsai

Temperature: 25°C

Humidity: 61%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1*	0.428	42.73	47.29	-4.56	32.83	9.65	0.08	Average
2	0.428	51.06	57.29	-6.23	41.16	9.65	0.08	QP
3	0.708	31.79	46.00	-14.21	21.85	9.65	0.10	Average
4	0.708	38.94	56.00	-17.06	29.00	9.65	0.10	QP
5	4.158	35.93	46.00	-10.07	25.71	9.67	0.29	Average
6	4.158	42.38	56.00	-13.62	32.16	9.67	0.29	QP
7	4.478	36.75	46.00	-9.25	26.50	9.68	0.30	Average
8	4.478	43.37	56.00	-12.63	33.12	9.68	0.30	QP
9	7.852	39.49	50.00	-10.51	29.11	9.71	0.36	Average
10	7.852	46.27	60.00	-13.73	35.89	9.71	0.36	QP
11	9.401	39.80	50.00	-10.20	29.36	9.73	0.38	Average
12	9.401	46.40	60.00	-13.60	35.96	9.73	0.38	QP

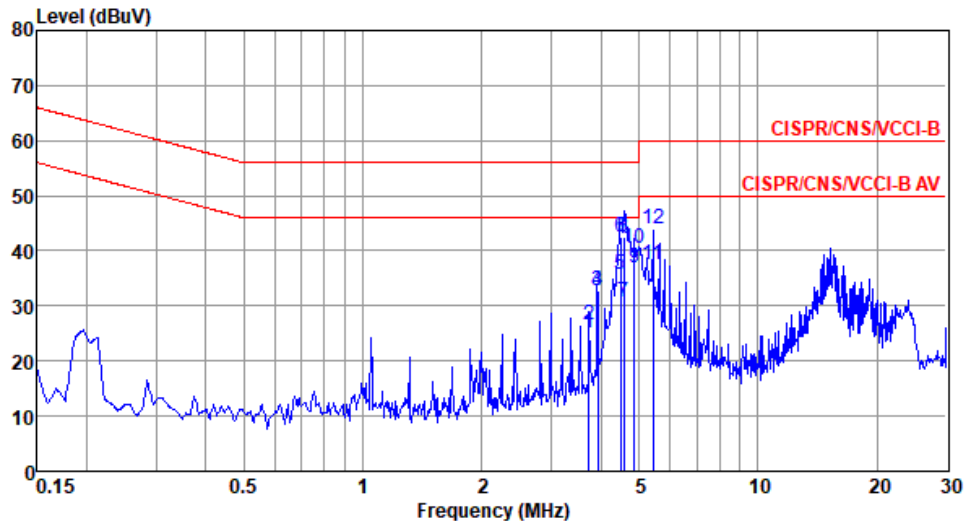
Note 1: Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB).
 Note 2: Over Limit (dB) = Level (dBuV) - Limit Line (dBuV).

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

Test by : Alex Tsai

Temperature: 25°C

Humidity: 61%



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	3.740	25.21	46.00	-20.79	15.28	9.65	0.28	Average
2	3.740	26.69	56.00	-29.31	16.76	9.65	0.28	QP
3	3.930	32.86	46.00	-13.14	22.92	9.65	0.29	Average
4	3.930	32.89	56.00	-23.11	22.95	9.65	0.29	QP
5	4.490	35.82	46.00	-10.18	25.86	9.66	0.30	Average
6	4.490	42.50	56.00	-13.50	32.54	9.66	0.30	QP
7	4.574	30.59	46.00	-15.41	20.63	9.66	0.30	Average
8	4.574	42.61	56.00	-13.39	32.65	9.66	0.30	QP
9*	4.866	36.96	46.00	-9.04	26.99	9.66	0.31	Average
10	4.866	40.49	56.00	-15.51	30.52	9.66	0.31	QP
11	5.419	37.60	50.00	-12.40	27.62	9.66	0.32	Average
12	5.419	44.13	60.00	-15.87	34.15	9.66	0.32	QP

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

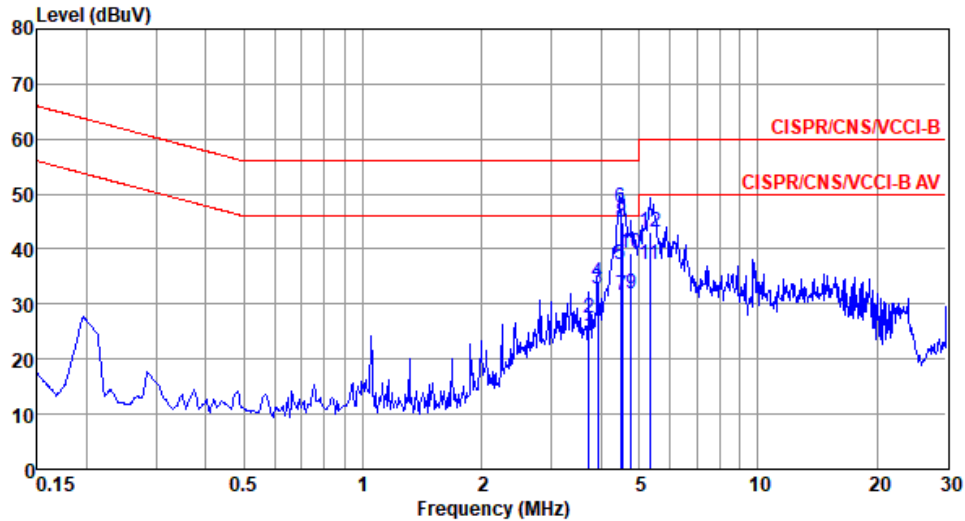
2: Over Limit (dB) = Level (dBuV) – Limit Line (dBuV).

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

Test by : Alex Tsai

Temperature: 25°C

Humidity: 61%



	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	3.742	24.12	46.00	-21.88	14.17	9.67	0.28	Average
2	3.742	27.47	56.00	-28.53	17.52	9.67	0.28	QP
3	3.930	32.84	46.00	-13.16	22.88	9.67	0.29	Average
4	3.930	34.07	56.00	-21.93	24.11	9.67	0.29	QP
5	4.493	37.32	46.00	-8.68	27.34	9.68	0.30	Average
6*	4.493	47.44	56.00	-8.56	37.46	9.68	0.30	QP
7	4.525	31.67	46.00	-14.33	21.69	9.68	0.30	Average
8	4.525	44.85	56.00	-11.15	34.87	9.68	0.30	QP
9	4.772	31.90	46.00	-14.10	21.91	9.68	0.31	Average
10	4.772	39.25	56.00	-16.75	29.26	9.68	0.31	QP
11	5.333	37.19	50.00	-12.81	27.18	9.69	0.32	Average
12	5.333	43.02	60.00	-16.98	33.01	9.69	0.32	QP

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

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

3.2 6dB and Occupied Bandwidth

3.2.1 Limit of 6dB Bandwidth

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

3.2.2 Test Procedures

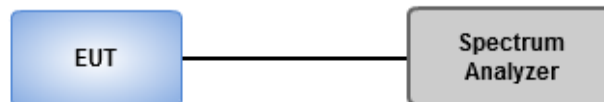
6dB Bandwidth

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

Occupied Bandwidth

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

3.2.3 Test Setup



3.2.4 Test Result of 6dB and Occupied Bandwidth

Ambient Condition	23°C / 66%	Tested By	Brad Wu
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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)_1TX	10M	14.761M	14M8G1D	9.565M	14.645M
802.11g_Nss1,(6Mbps)_1TX	15.072M	18.466M	18M5D1D	13.913M	16.324M
802.11n HT20_Nss1,(MCS0)_1TX	15.87M	17.945M	17M9D1D	13.913M	17.54M
802.11n HT40_Nss1,(MCS0)_1TX	33.768M	36.237M	36M2D1D	31.304M	35.658M

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

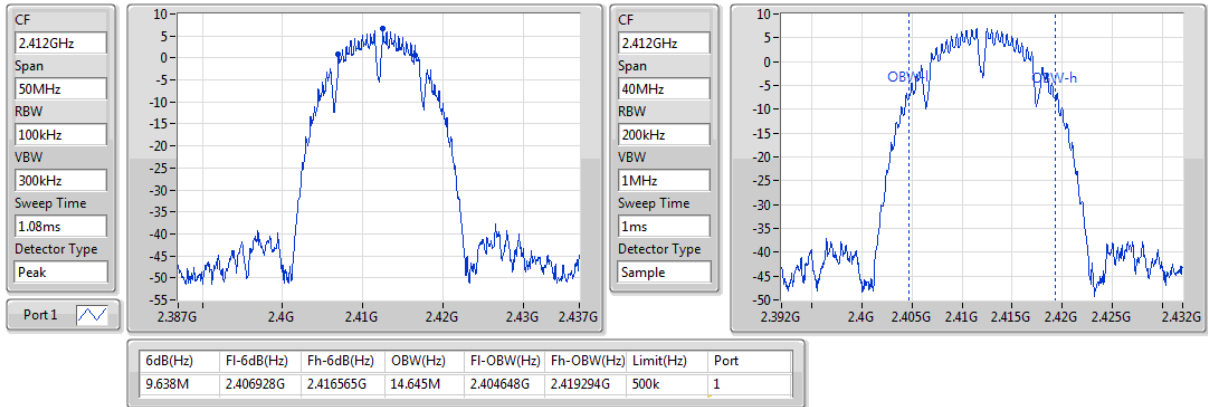
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	9.638M	14.645M
2437MHz	Pass	500k	10M	14.761M
2462MHz	Pass	500k	9.565M	14.703M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	13.913M	16.382M
2437MHz	Pass	500k	15.072M	18.466M
2462MHz	Pass	500k	15.072M	16.324M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	15.87M	17.54M
2437MHz	Pass	500k	13.913M	17.945M
2462MHz	Pass	500k	14.565M	17.54M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	33.768M	35.658M
2437MHz	Pass	500k	31.304M	36.237M
2452MHz	Pass	500k	33.768M	35.658M

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

802.11b_Nss1,(1Mbps)_1TX

EBW

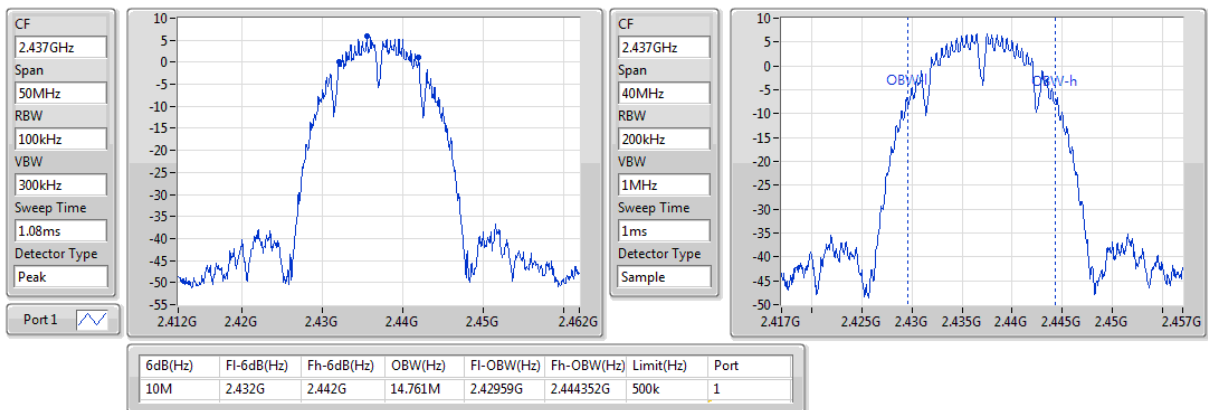
2412MHz



802.11b_Nss1,(1Mbps)_1TX

EBW

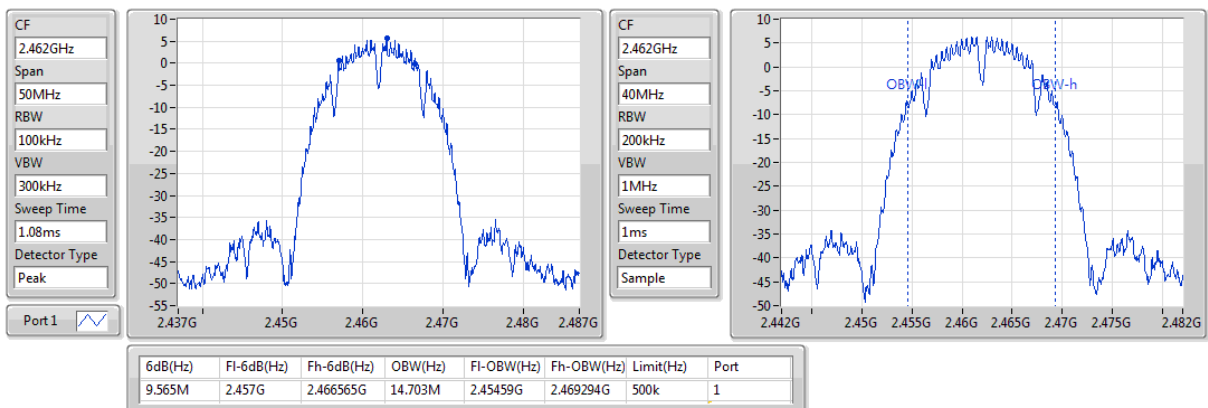
2437MHz



802.11b_Nss1,(1Mbps)_1TX

EBW

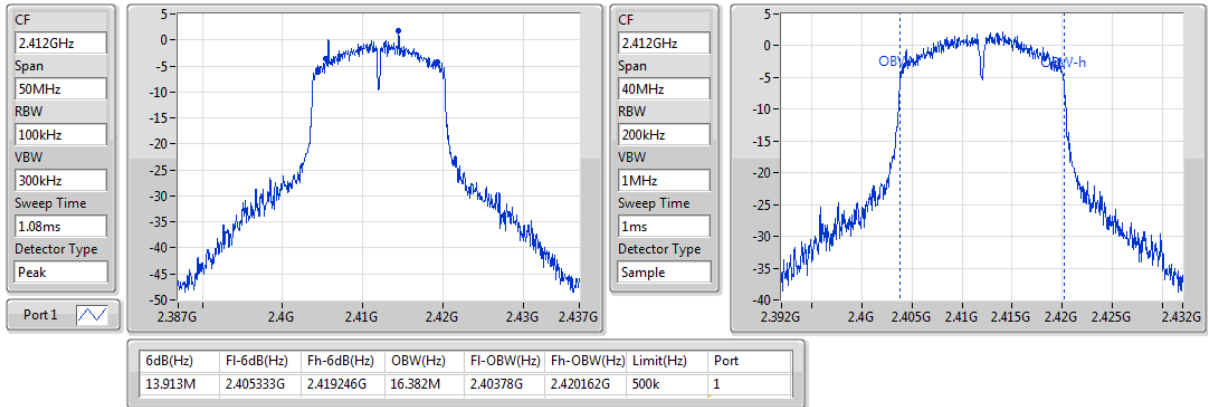
2462MHz



802.11g_Nss1,(6Mbps)_1TX

EBW

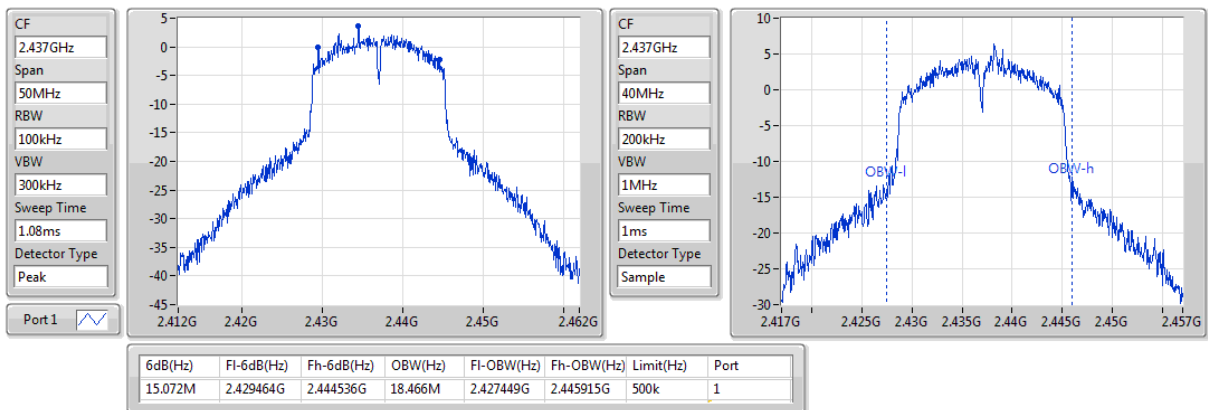
2412MHz



802.11g_Nss1,(6Mbps)_1TX

EBW

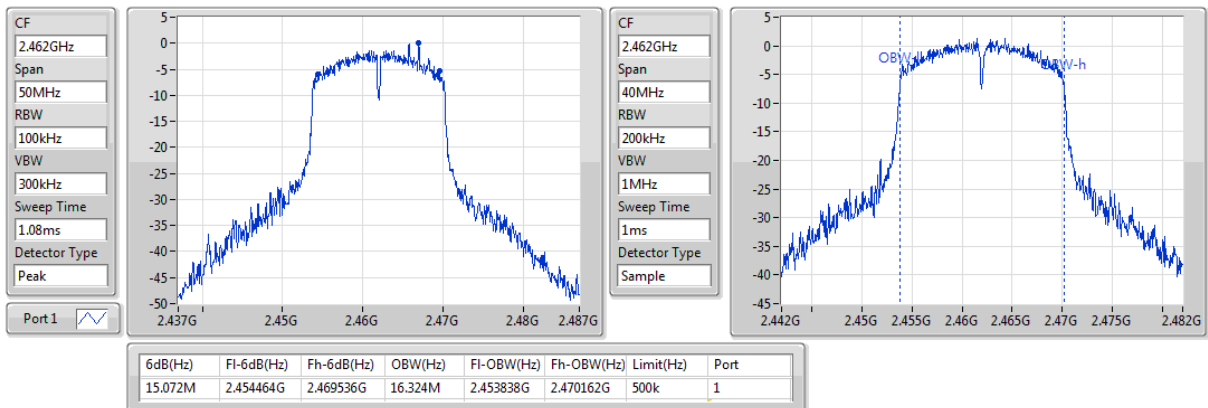
2437MHz



802.11g_Nss1,(6Mbps)_1TX

EBW

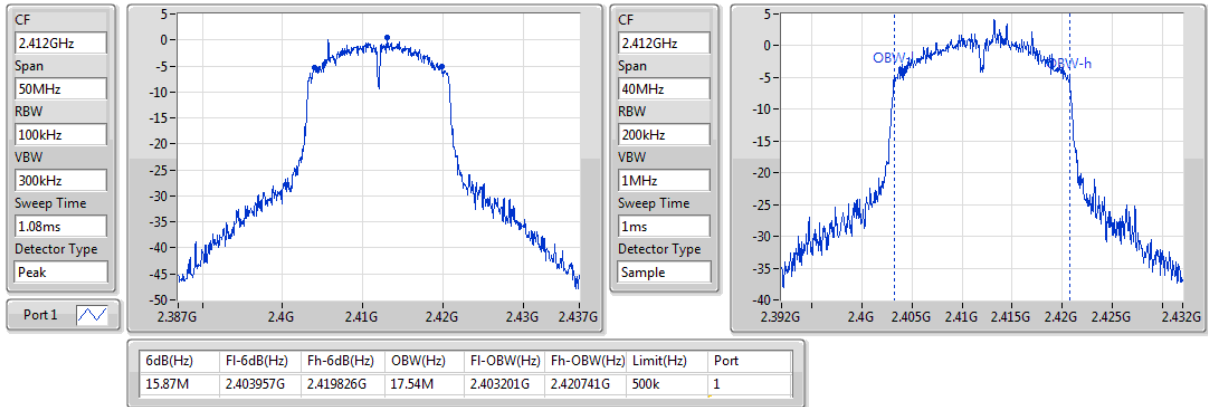
2462MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

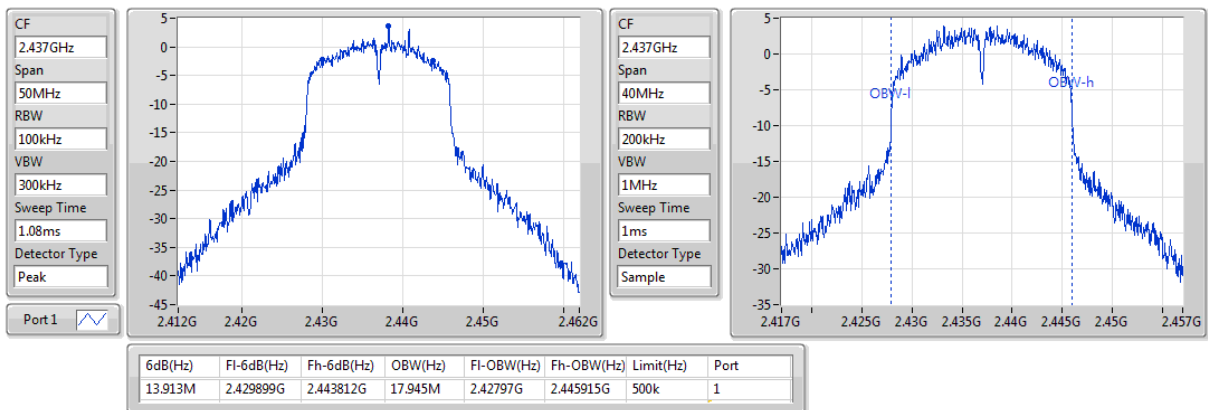
2412MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

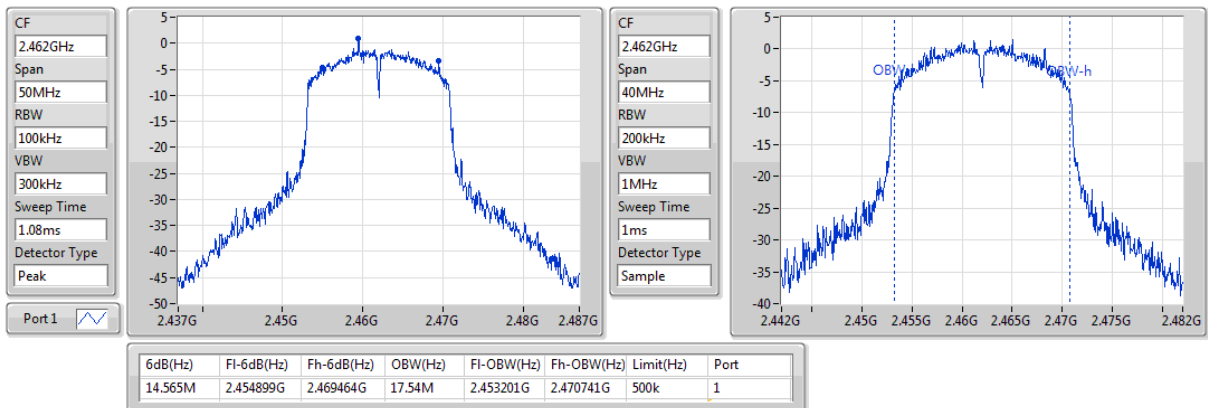
2437MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

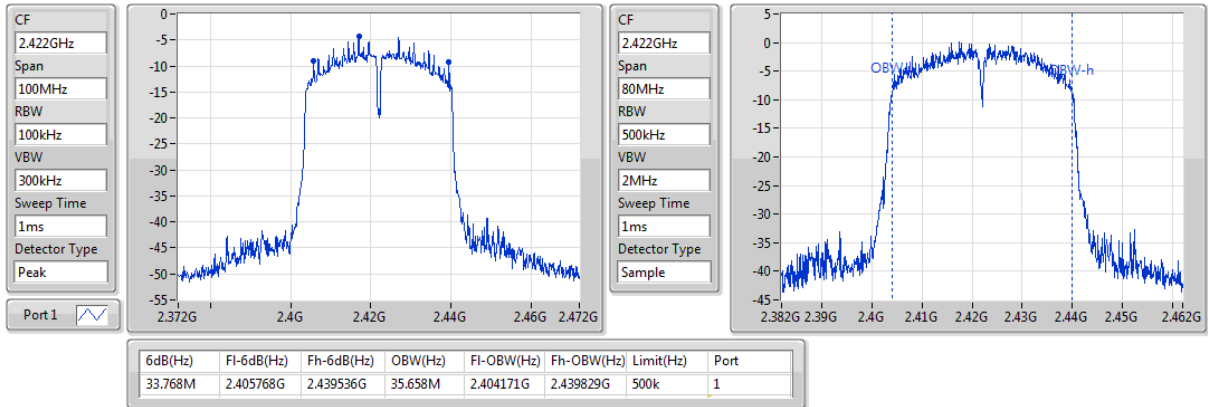
2462MHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

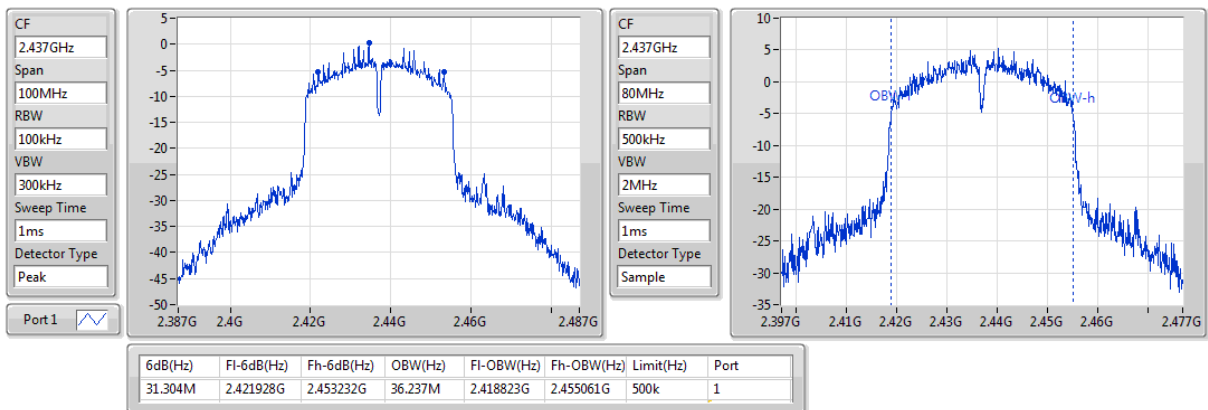
2422MHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

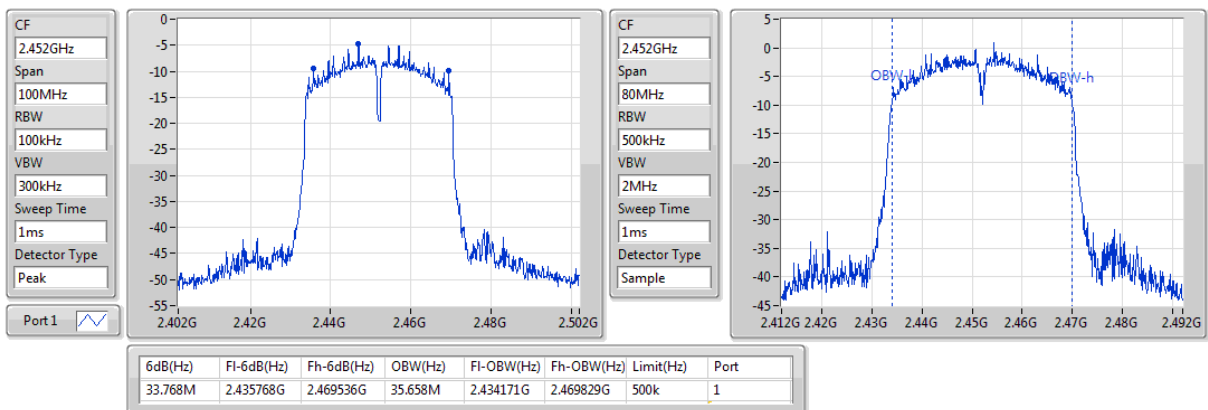
2437MHz



802.11n HT40_Nss1,(MCS0)_1TX

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.

Antenna gain $> 6\text{dBi}$

Non Fixed, point to point operations.

The conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dB

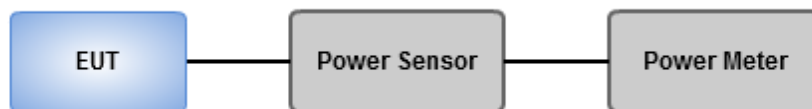
Fixed, point to point operations

Systems operating in the 2400–2483.5 MHz band that are used exclusively for fixed, point-to-point Operations, maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Test Procedures

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

3.3.3 Test Setup



3.3.4 Test Result of Maximum Output Power

Ambient Condition	23°C / 66%	Tested By	Brad Wu
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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)_1TX	18.32	0.06792
802.11g_Nss1,(6Mbps)_1TX	20.23	0.10544
802.11n HT20_Nss1,(MCS0)_1TX	20.21	0.10495
802.11n HT40_Nss1,(MCS0)_1TX	19.57	0.09057

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	2.75	18.32	18.32	30.00	21.07	36.00
2437MHz	Pass	2.75	18.06	18.06	30.00	20.81	36.00
2462MHz	Pass	2.75	17.84	17.84	30.00	20.59	36.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	2.75	20.19	20.19	30.00	22.94	36.00
2437MHz	Pass	2.75	20.23	20.23	30.00	22.98	36.00
2462MHz	Pass	2.75	19.56	19.56	30.00	22.31	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	2.75	20.05	20.05	30.00	22.80	36.00
2437MHz	Pass	2.75	20.21	20.21	30.00	22.96	36.00
2462MHz	Pass	2.75	19.61	19.61	30.00	22.36	36.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2422MHz	Pass	2.75	17.82	17.82	30.00	20.57	36.00
2437MHz	Pass	2.75	19.57	19.57	30.00	22.32	36.00
2452MHz	Pass	2.75	17.26	17.26	30.00	20.01	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)_1TX	16.54	0.04508
802.11g_Nss1,(6Mbps)_1TX	15.54	0.03581
802.11n HT20_Nss1,(MCS0)_1TX	15.22	0.03327
802.11n HT40_Nss1,(MCS0)_1TX	13.66	0.02323

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	2.75	16.54	16.54	-	19.29	-
2437MHz	Pass	2.75	16.33	16.33	-	19.08	-
2462MHz	Pass	2.75	15.98	15.98	-	18.73	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	2.75	13.65	13.65	-	16.40	-
2437MHz	Pass	2.75	15.54	15.54	-	18.29	-
2462MHz	Pass	2.75	12.81	12.81	-	15.56	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	2.75	13.51	13.51	-	16.26	-
2437MHz	Pass	2.75	15.22	15.22	-	17.97	-
2462MHz	Pass	2.75	12.91	12.91	-	15.66	-
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2422MHz	Pass	2.75	9.45	9.45	-	12.20	-
2437MHz	Pass	2.75	13.66	13.66	-	16.41	-
2452MHz	Pass	2.75	9.01	9.01	-	11.76	-

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.

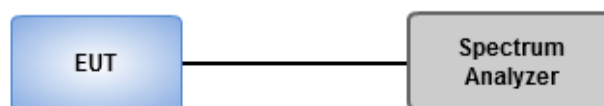
Average PSD, duty cycle $\geq 98\%$

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

3.4.3 Test Setup



3.4.4 Test Result of Power Spectral Density

Ambient Condition	23°C / 66%	Tested By	Brad Wu
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Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-6.84
802.11g_Nss1,(6Mbps)_1TX	-10.24
802.11n HT20_Nss1,(MCS0)_1TX	-11.59
802.11n HT40_Nss1,(MCS0)_1TX	-13.54

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.75	-6.84	-6.84	8.00
2437MHz	Pass	2.75	-7.66	-7.66	8.00
2462MHz	Pass	2.75	-9.14	-9.14	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.75	-11.91	-11.91	8.00
2437MHz	Pass	2.75	-10.24	-10.24	8.00
2462MHz	Pass	2.75	-12.91	-12.91	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.75	-12.39	-12.39	8.00
2437MHz	Pass	2.75	-11.59	-11.59	8.00
2462MHz	Pass	2.75	-13.31	-13.31	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.75	-19.14	-19.14	8.00
2437MHz	Pass	2.75	-13.54	-13.54	8.00
2452MHz	Pass	2.75	-20.14	-20.14	8.00

DG = Directional Gain;

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

802.11b_Nss1,(1Mbps)_1TX

PSD

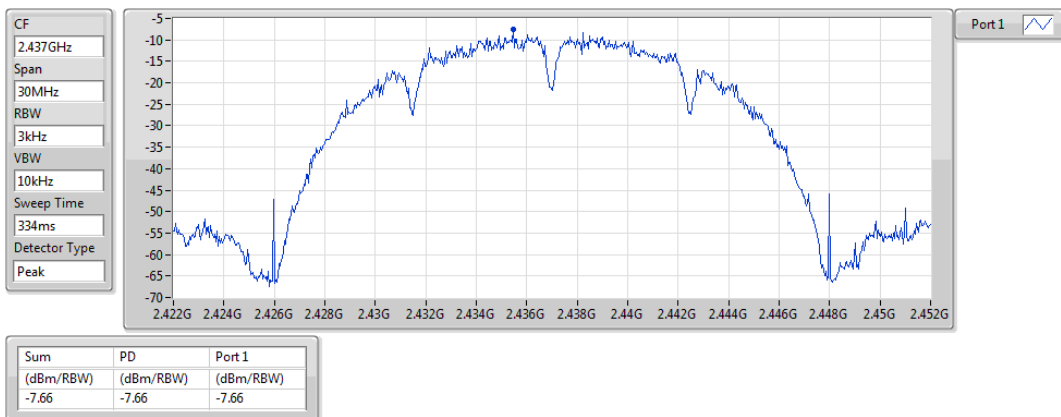
2412MHz



802.11b_Nss1,(1Mbps)_1TX

PSD

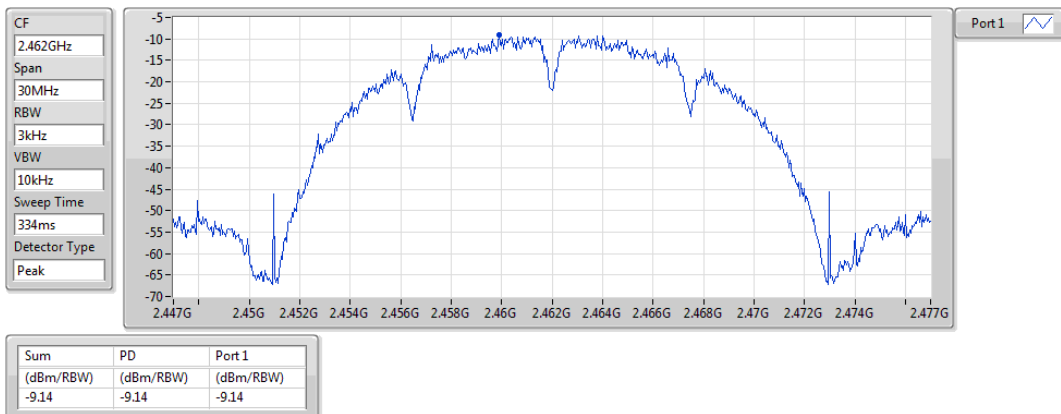
2437MHz



802.11b_Nss1,(1Mbps)_1TX

PSD

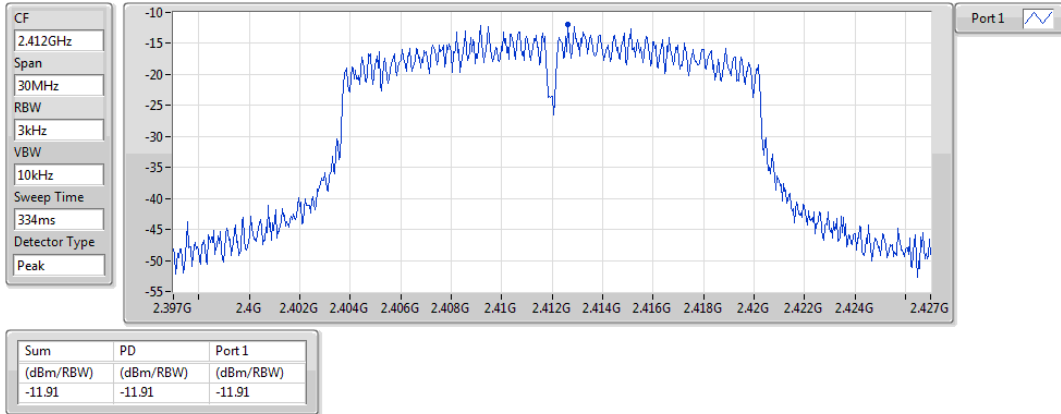
2462MHz



802.11g_Nss1,(6Mbps)_1TX

PSD

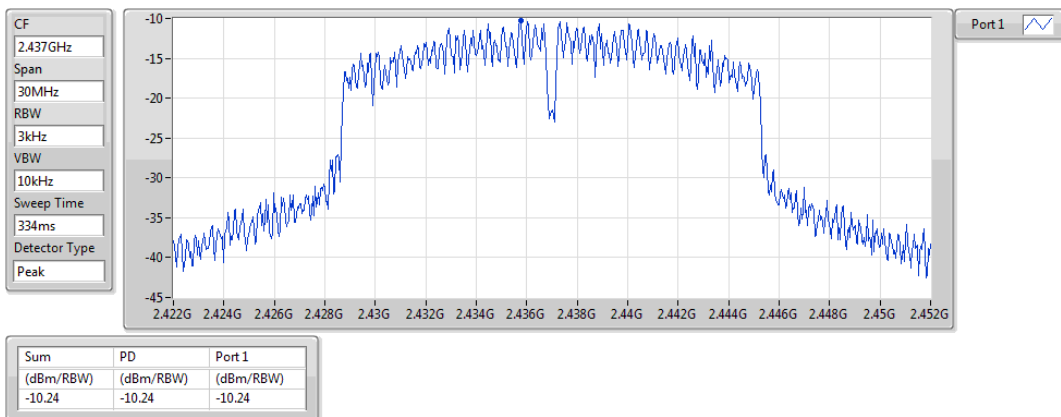
2412MHz



802.11g_Nss1,(6Mbps)_1TX

PSD

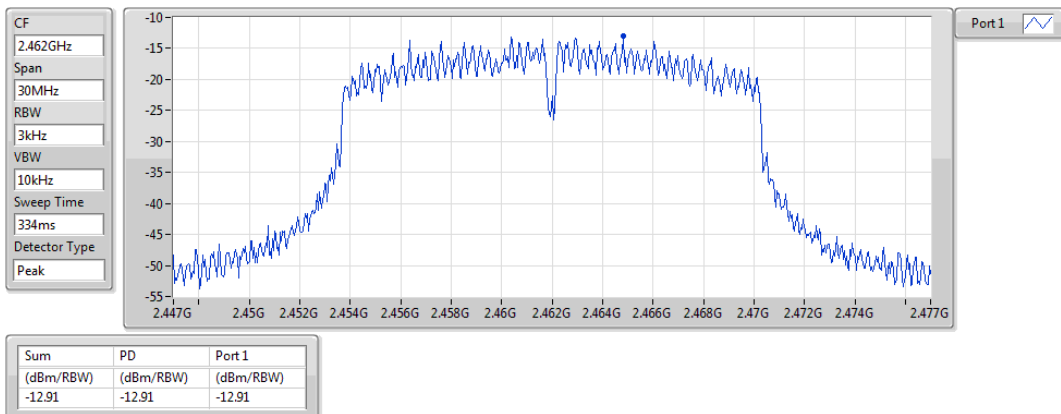
2437MHz



802.11g_Nss1,(6Mbps)_1TX

PSD

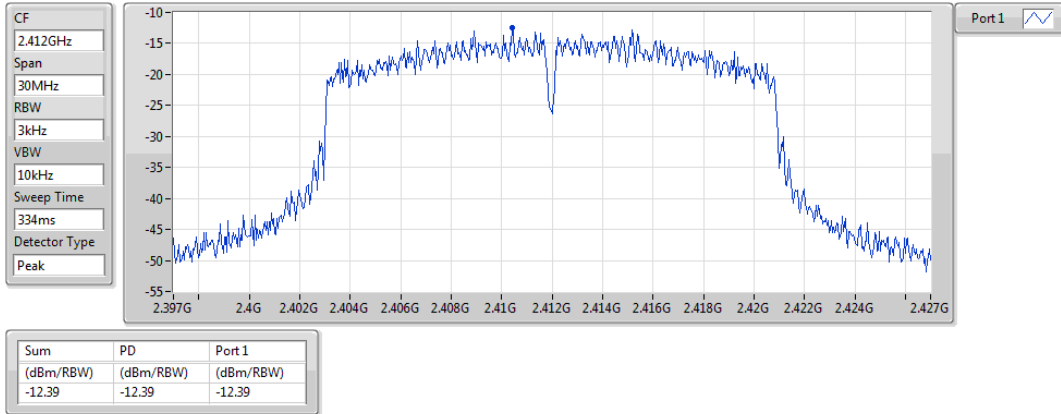
2462MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

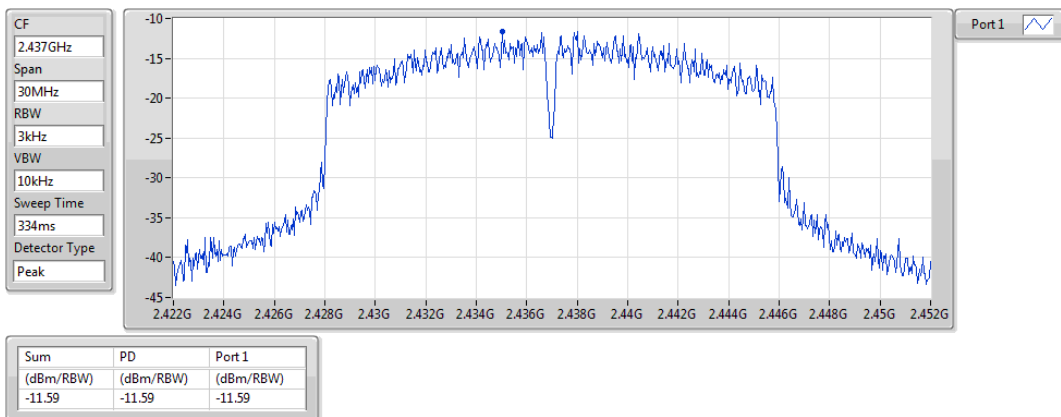
2412MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

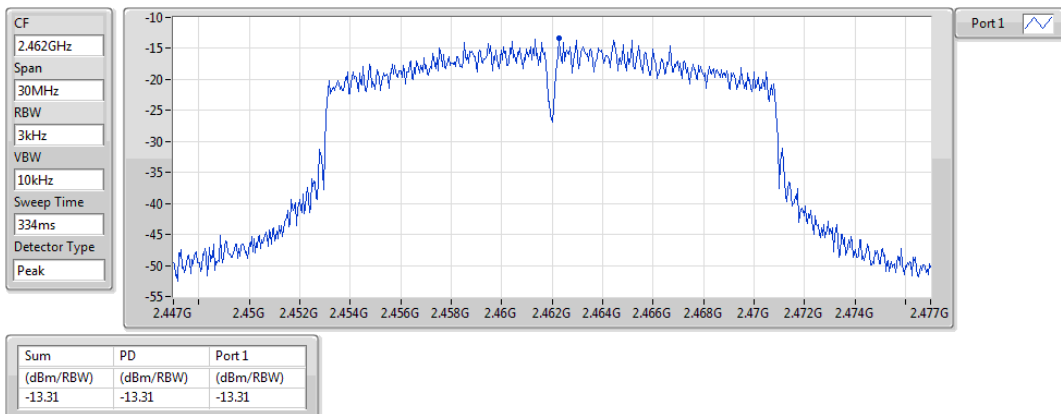
2437MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

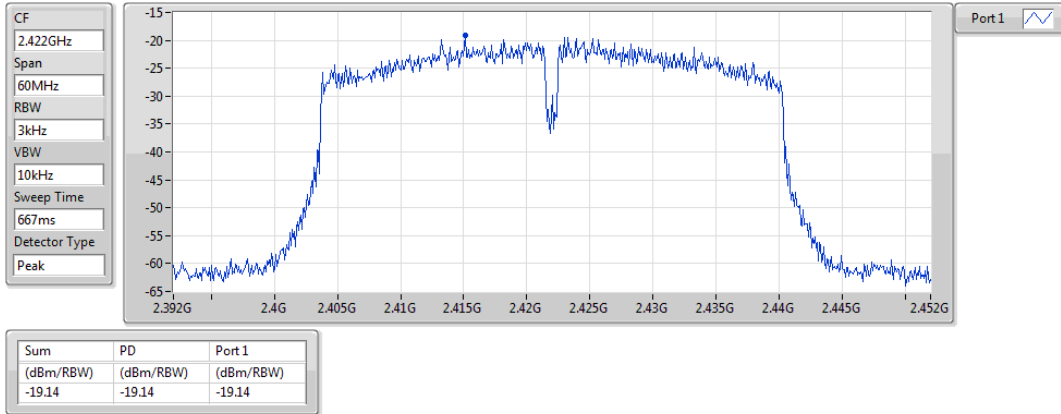
2462MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

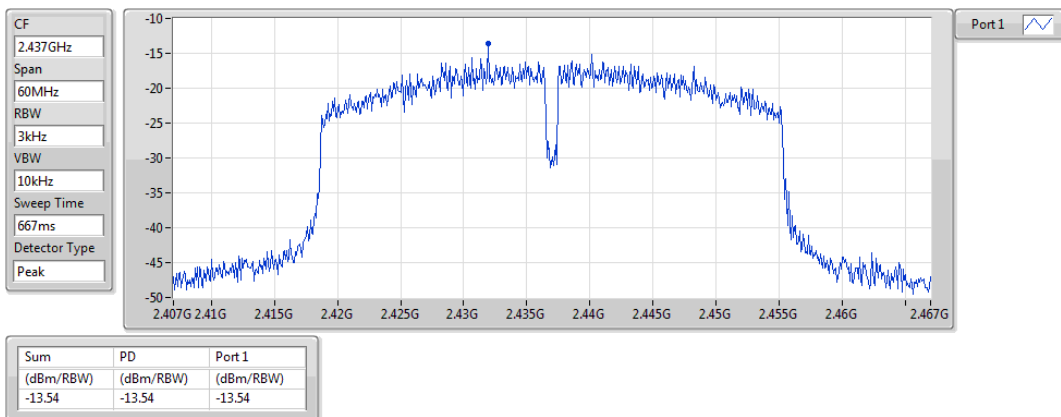
2422MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

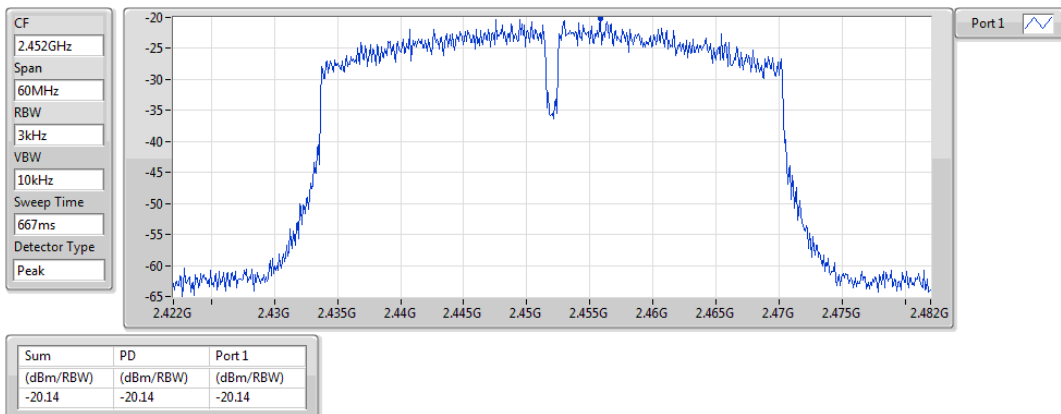
2437MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

2452MHz



3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

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

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

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

3.5.2 Test Procedures

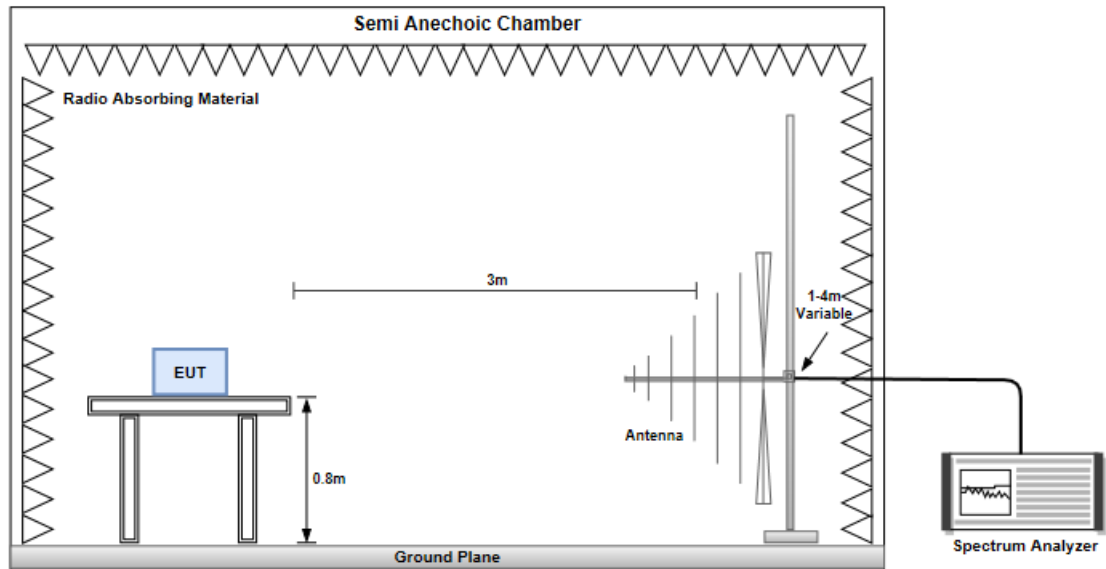
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

Note:

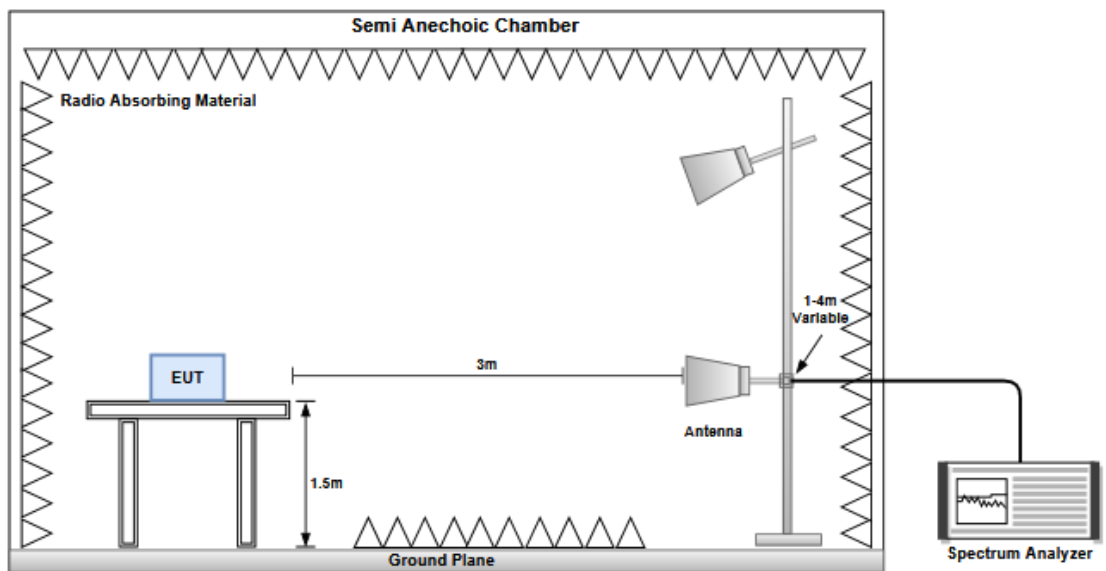
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz

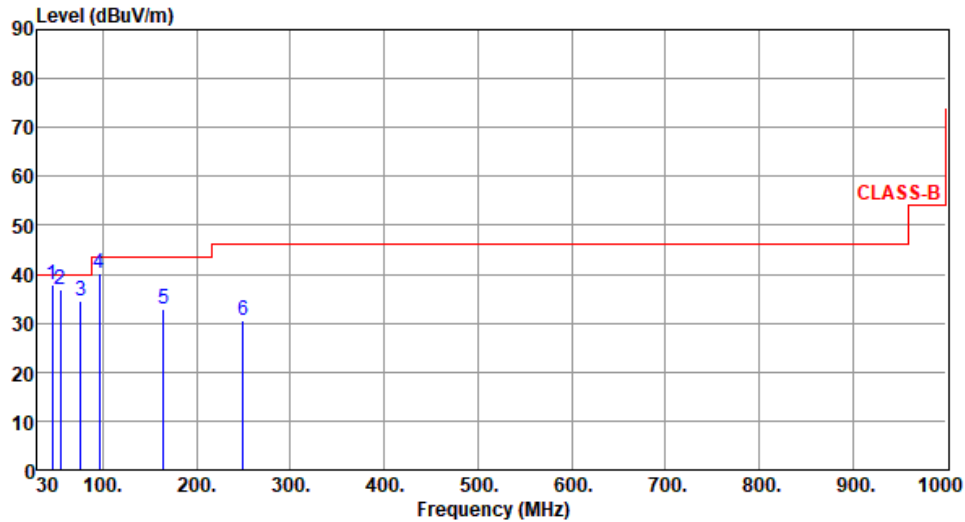


3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal	Test Configuration	1
Test By :Roger Lu Temperature(°C):23 Humidity(%):66			
Level (dBuV/m)			

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

Test By :Roger Lu Temperature(°C):23 Humidity(%):66



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	45.75	37.71	40.00	-2.29	46.41	-8.70	QP	165	312
2	54.35	36.85	40.00	-3.15	45.82	-8.97	QP	100	251
3	76.42	34.45	40.00	-5.55	47.03	-12.58	QP	100	25
4	95.96	40.29	43.50	-3.21	54.74	-14.45	Peak	---	---
5	164.83	32.73	43.50	-10.77	41.75	-9.02	Peak	---	---
6	249.22	30.49	46.00	-15.51	40.68	-10.19	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

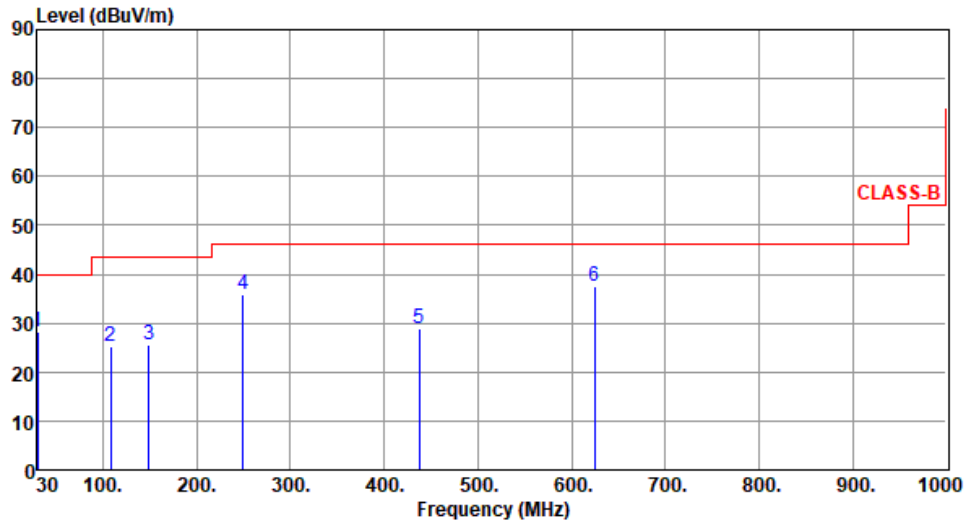
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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

Test By :BRAD WU

Temperature(°C):23

Humidity(%):66



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	30.00	28.09	40.00	-11.91	38.37	-10.28	Peak	---	---
2	108.57	25.16	43.50	-18.34	37.49	-12.33	Peak	---	---
3	149.31	25.54	43.50	-17.96	34.43	-8.89	Peak	---	---
4	249.22	35.91	46.00	-10.09	46.10	-10.19	Peak	---	---
5	437.40	28.85	46.00	-17.15	33.33	-4.48	Peak	---	---
6	624.61	37.41	46.00	-8.59	37.46	-0.05	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

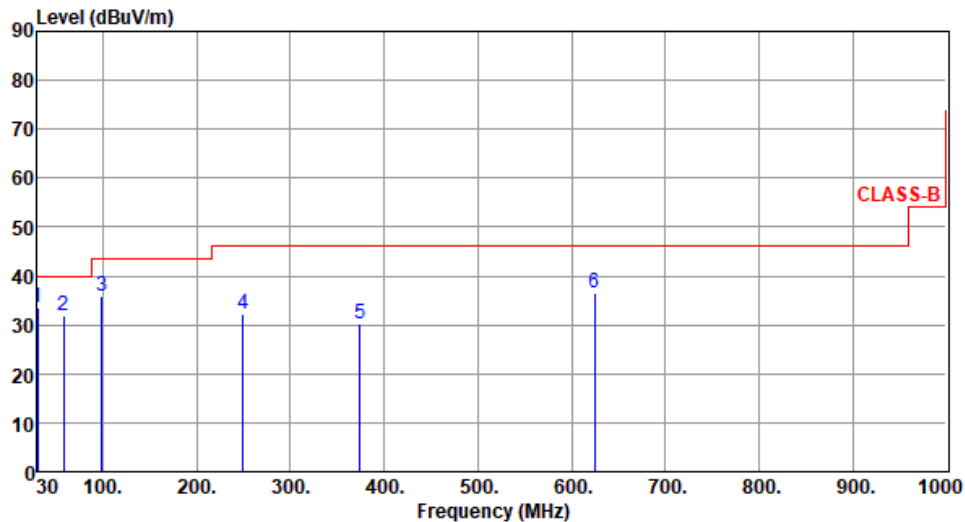
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

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

Test By :BRAD WU

Temperature(°C):23

Humidity(%):66



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	30.36	33.38	40.00	-6.62	43.59	-10.21	QP	100	15
2	58.13	31.83	40.00	-8.17	41.02	-9.19	Peak	---	---
3	98.87	35.82	43.50	-7.68	49.87	-14.05	Peak	---	---
4	249.22	32.15	46.00	-13.85	42.34	-10.19	Peak	---	---
5	374.35	30.33	46.00	-15.67	36.84	-6.51	Peak	---	---
6	624.61	36.50	46.00	-9.50	36.55	-0.05	Peak	---	---

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

*Factor includes antenna factor , cable loss and amplifier gain

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

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

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

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m)			

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBuV/m) <			

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBuV/m)			

Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBuV/m)			

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m)			

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBuV/m)			

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

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m) <			

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m) <			

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBuV/m) <			

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBuV/m) <			

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m)			

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m)			

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

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m)			

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m)			

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBuV/m)			

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m)			

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m)			

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m) <			

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

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m)			

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m)			

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m) <			

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m)			

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (dBUV/m)			

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Vertical		
Test By :BRAD WU Temperature(°C):22 Humidity(%):65			
Level (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

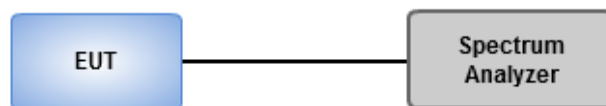
Reference level measurement

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

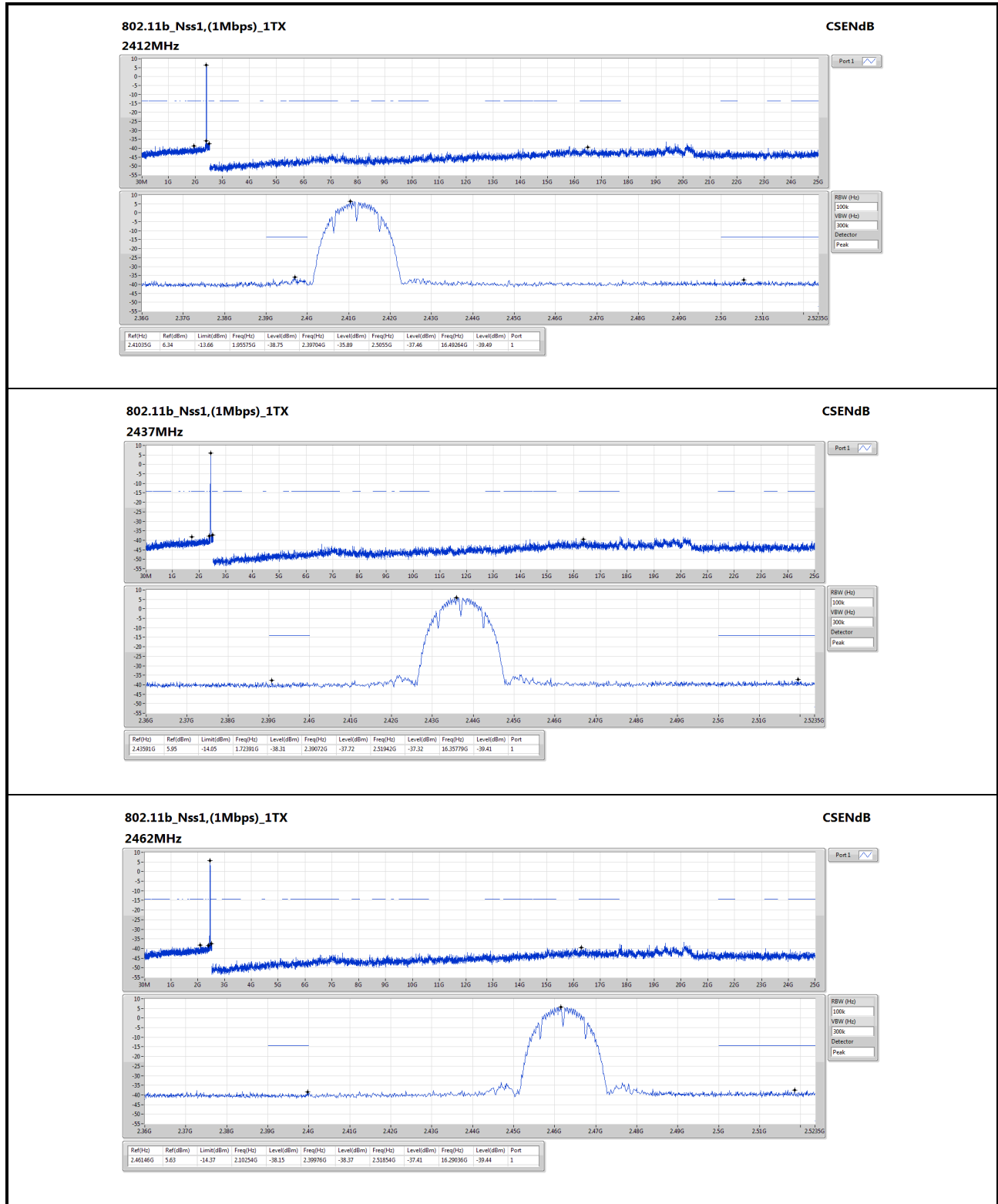
1. Set RBW=100kHz, VBW = 300kHz , Detector = Peak, Sweep time = Auto
2. Trace = max hold , Allow Trace to fully stabilize
3. Scan Frequency range is up to 25GHz
4. Use the peak marker function to determine the maximum amplitude level

3.6.3 Test Setup



3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands

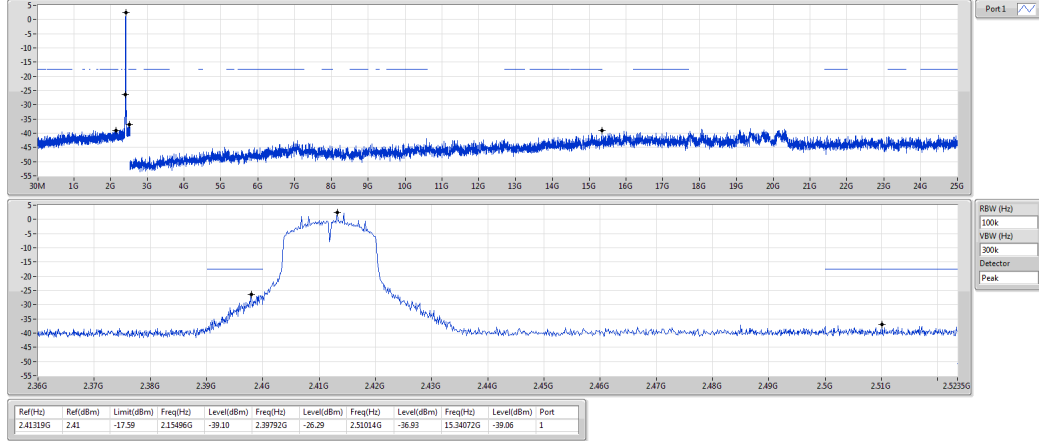
Ambient Condition	23°C / 66%	Tested By	Brad Wu
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802.11g_Nss1,(6Mbps)_1TX

CSEndB

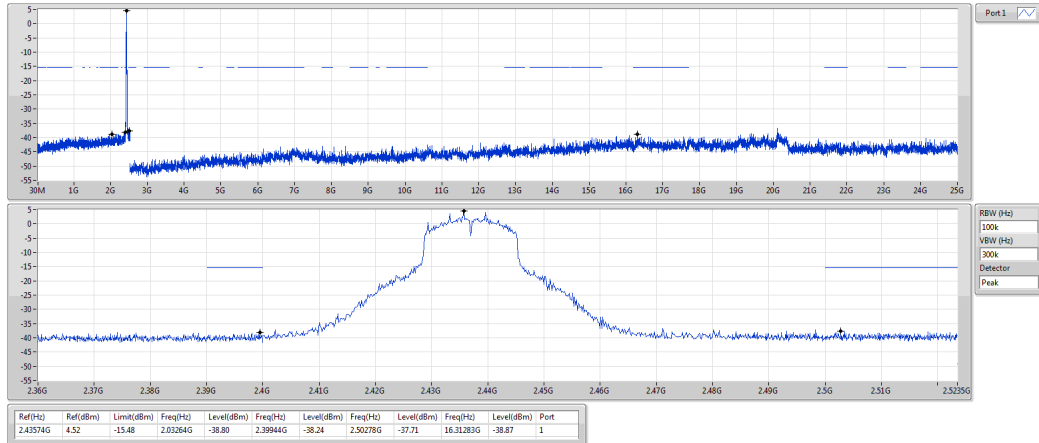
2412MHz



802.11g_Nss1,(6Mbps)_1TX

CSEndB

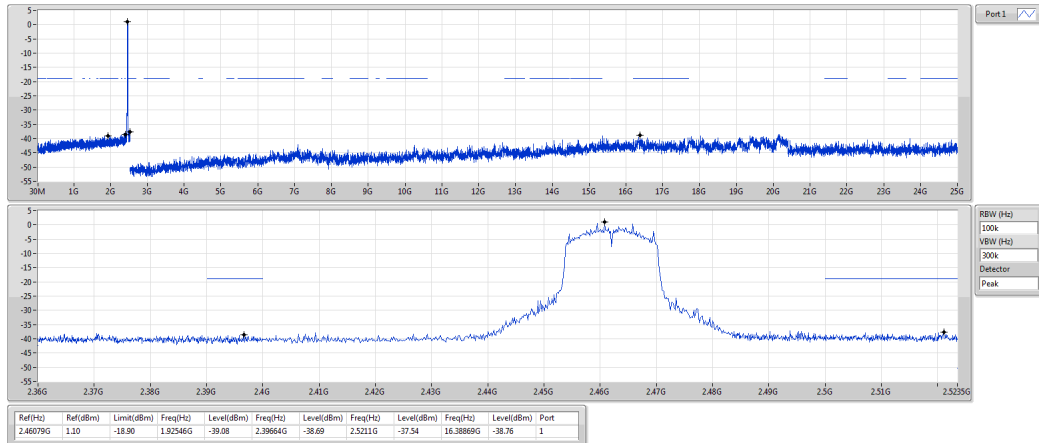
2437MHz



802.11g_Nss1,(6Mbps)_1TX

CSEndB

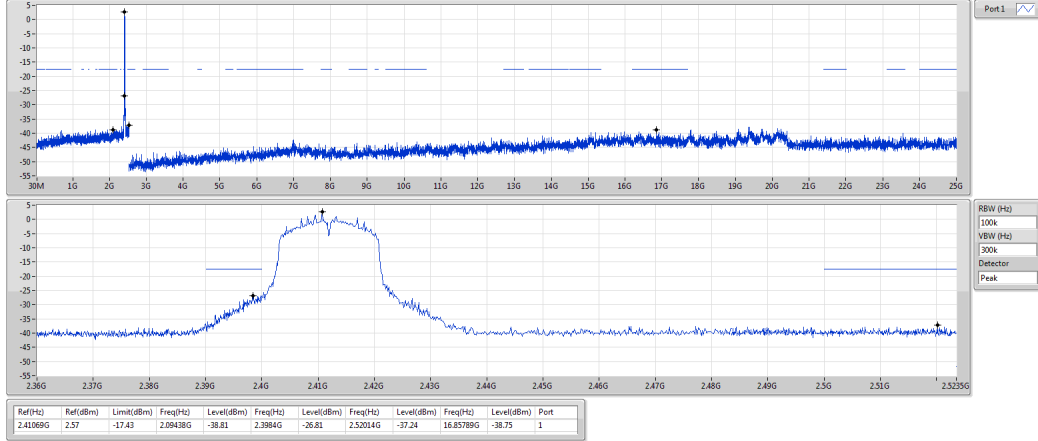
2462MHz



802.11n HT20_Nss1,(MCS0)_1TX

CSEndB

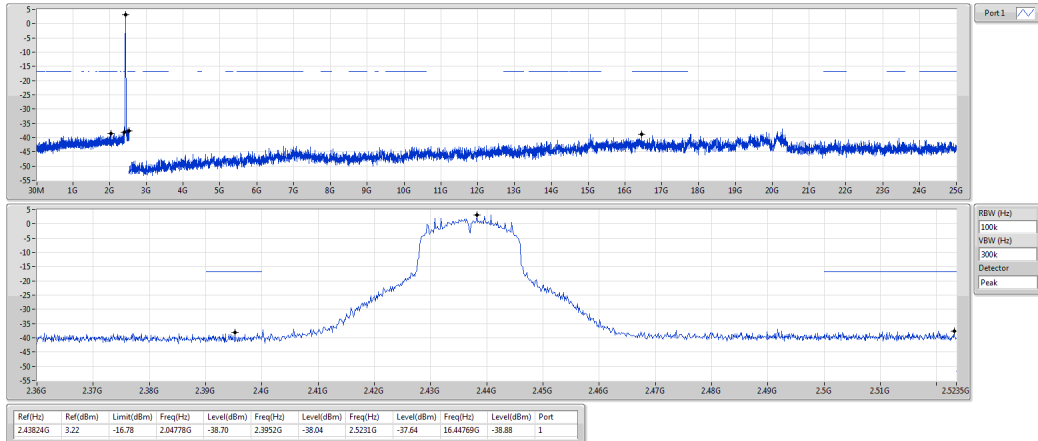
2412MHz



802.11n HT20_Nss1,(MCS0)_1TX

CSEndB

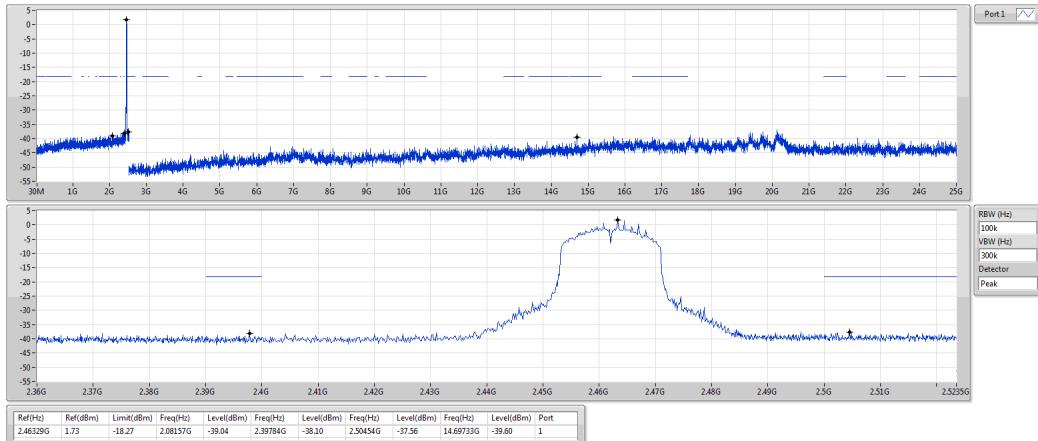
2437MHz



802.11n HT20_Nss1,(MCS0)_1TX

CSEndB

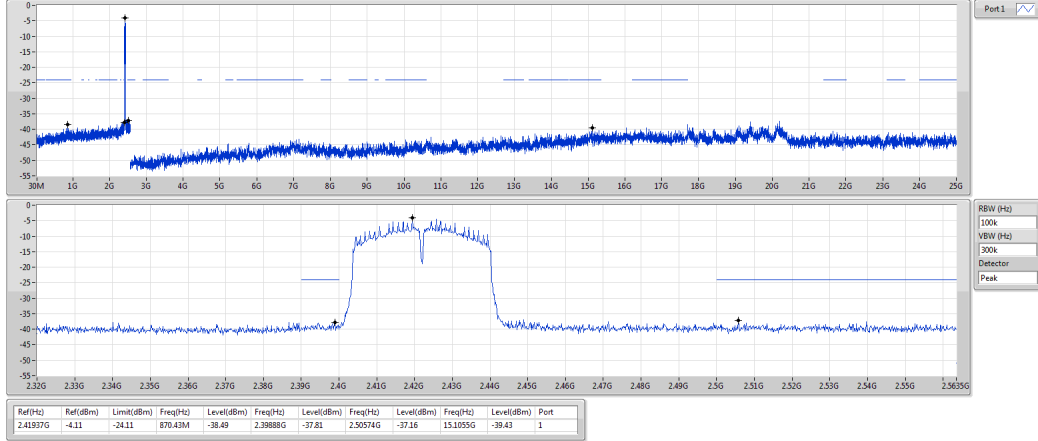
2462MHz



802.11n HT40_Nss1,(MCS0)_1TX

CSEndB

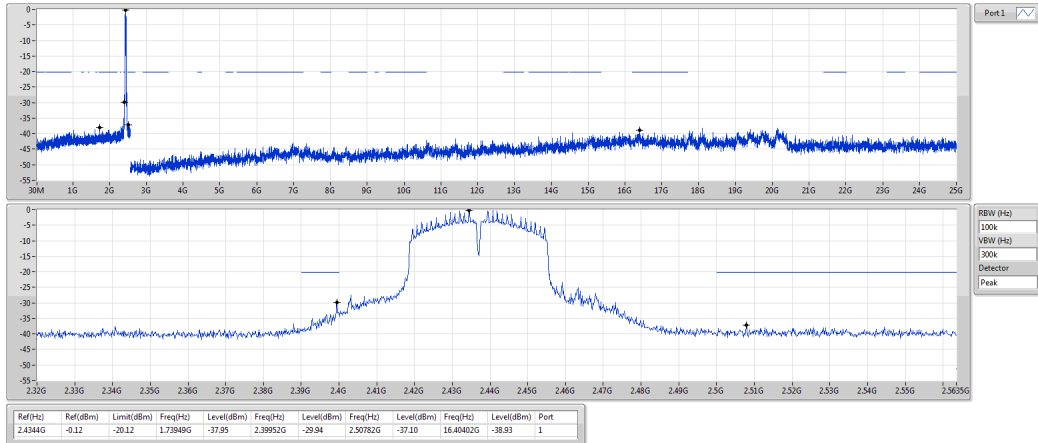
2422MHz



802.11n HT40_Nss1,(MCS0)_1TX

CSEndB

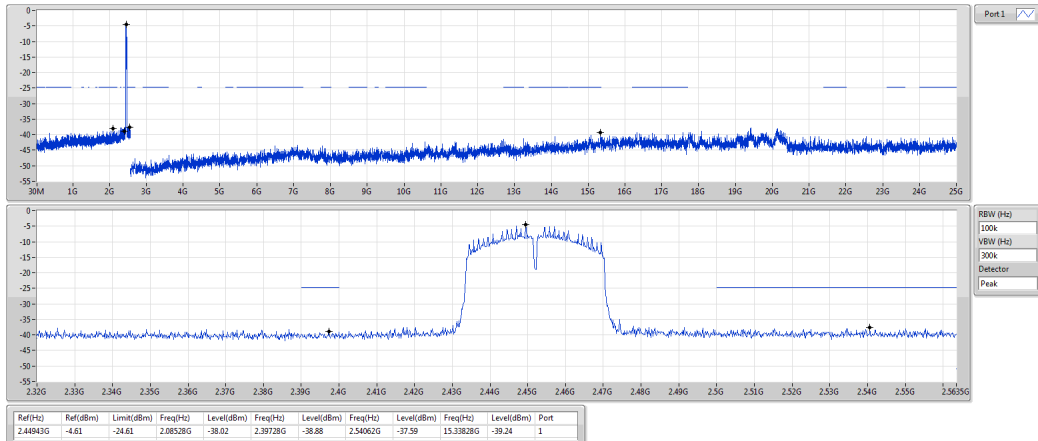
2437MHz



802.11n HT40_Nss1,(MCS0)_1TX

CSEndB

2452MHz



4 Test laboratory information

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

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

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

Linkou

Tel: 886-2-2601-1640

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

Kwei Shan

Tel: 886-3-271-8666

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

Kwei Shan Site II

Tel: 886-3-271-8640

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

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

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==