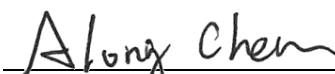


FCC Test Report

FCC ID : 2AWC2-AIRH201
Equipment : NUWA ROBOT
Model No. : AIR-H201
Brand Name : NUWAROBOTICS
Applicant : NUWA ROBOTICS (HK) LIMITED TAIWAN
BRANCH
Address : 9F., No. 101, Sec. 3, Nanjing E. Rd., Zhongshan
Dist., Taipei City 104, Taiwan (R.O.C.)
Standard : 47 CFR FCC Part 15.247
Received Date : Mar. 03, 2020
Tested Date : Mar. 05 ~ Mar. 13, 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:

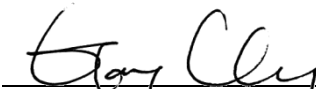

Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR030301-02AC	Rev. 01	Initial issue	Jun. 01, 2020

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.724MHz 44.34 (Margin -11.66dB) - QP	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 2483.50MHz 72.98 (Margin -1.02dB) - PK	Pass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: 27.03	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

Test results can be referred to ICC report no. TR030301AC.

1.1.1 Specification of the Equipment under Test (EUT)

RF General Information					
Frequency Range (MHz)	IEEE Std. 802.11	Ch. Freq. (MHz)	Channel Number	Transmit Chains (N _{TX})	Data Rate / MCS
2400-2483.5	b	2412-2462	1-11 [11]	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.

1.1.2 Antenna Details

Ant. No.	Model	Type	Connector	Gain (dBi)	Remarks
1	NUWA	PIFA	No	2.4	---

1.1.3 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	DC 3.7V battery DC 5V=3A / 9V=2A / 12V=1.5A from adapter
--------------------------	---

1.1.4 Accessories

No.	Equipment	Description
1	Adapter	Brand: NUWA Model: KA1803A-TW I/P: 100-240V, 50/60Hz, 0.5A Max O/P: 5V=3A / 9V=2A / 12V=1.5A
2	Li-ion Battery	Brand: SCUD (FUJIAN) ELECTRONICS CO. LTD. Model: NB1 Rating: 3.7Vdc, 9100mA, 33.67Wh
3	USB charger Cable	1.20m non-shielded without core.

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

Test Tool	QRCT, v3.0-00249		
Duty Cycle and Duty Factor	Mode	Duty Cycle (%)	Duty Factor (dB)
	11b	100.00	0.00
	11g	100.00	0.00
	HT20	100.00	0.00
	HT40	100.00	0.00

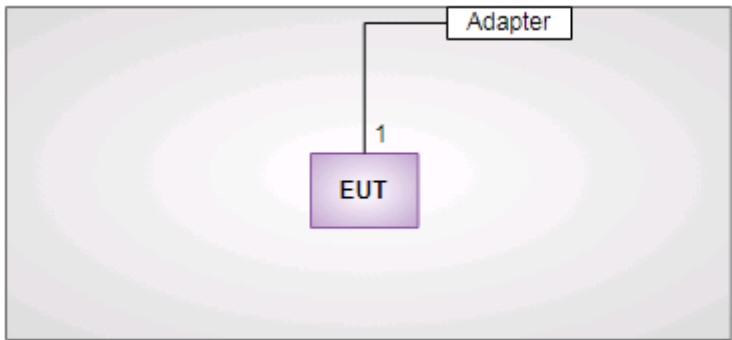
1.1.7 Power Index of Test Tool

Modulation Mode	Test Frequency (MHz)	Power Index
11b	2412	18
11b	2437	18
11b	2462	18
11g	2412	19
11g	2437	20.5
11g	2462	18
HT20	2412	18.5
HT20	2437	20.5
HT20	2462	17.5
HT40	2422	19
HT40	2437	21
HT40	2452	18

1.2 Local Support Equipment List

Support Equipment List					
No.	Equipment	Brand	Model	FCC ID	Remarks
1	Notebook	DELL	Latitude E6430	DoC	Provided by applicant.

1.3 Test Setup Chart

Test Setup Diagram	
	
No.	Signal cable / Length (m)
1	USB, 1.20m non-shielded without core

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

1.4 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Mar. 13, 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	100003	Sep. 23, 2019	Sep. 22, 2020
RF Cable-CON	Woken	CFD200-NL	CFD200-NL-001	Oct. 22, 2019	Oct. 21, 2020
Measurement Software	AUDIX	e3	6.120210k	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Mar. 05 ~ Mar. 12, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 17, 2019	Dec. 16, 2020
Receiver	Agilent	N9038A	MY53290044	Sep. 17, 2019	Sep. 16, 2020
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 12, 2019	Jul. 11, 2020
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 12, 2019	Dec. 11, 2020
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 15, 2019	Nov. 14, 2020
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2019	Nov. 12, 2020
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Oct. 07, 2019	Oct. 06, 2020
Preamplifier	EMC	EMC02325	980225	Jul. 09, 2019	Jul. 08, 2020
Preamplifier	Agilent	83017A	MY39501308	Oct. 08, 2019	Oct. 07, 2020
Preamplifier	EMC	EMC184045B	980192	Aug. 01, 2019	Jul. 31, 2020
RF Cable	EMC	EMC104-SM-SM-8000	181106	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Oct. 07, 2019	Oct. 06, 2020
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Oct. 07, 2019	Oct. 06, 2020
LF cable 1M	EMC	EMCCFD400-NM-NM-1000	160502	Oct. 07, 2019	Oct. 06, 2020
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Oct. 07, 2019	Oct. 06, 2020
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Oct. 07, 2019	Oct. 06, 2020
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Mar. 13, 2020				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 17, 2019	Apr. 16, 2020
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	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards and KDB documents.

47 CFR FCC Part 15.247

ANSI C63.10-2013

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

1.6 Deviation from Test Standard and Measurement Procedure

None

1.7 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	±3.41 dB
Radiated emission > 1GHz	±4.59 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	22°C / 61%	Alex Tsai
Radiated Emissions	03CH01-WS	20-23°C / 65-66%	Akun Chung Roger Lu
RF Conducted	TH01-WS	20°C / 65%	Roger Lu

- 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	Mode
Conducted Emissions	HT40	2437	MCS 0	-
Radiated Emissions ≤1GHz	HT40	2437	MCS 0	-
Radiated Emissions >1GHz	11b	2412 / 2437 / 2462	1 Mbps	-
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	

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

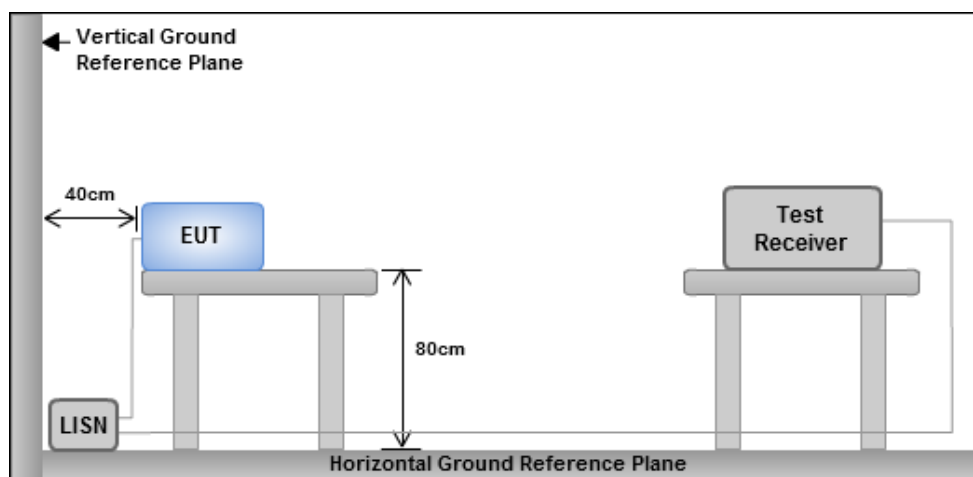
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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.

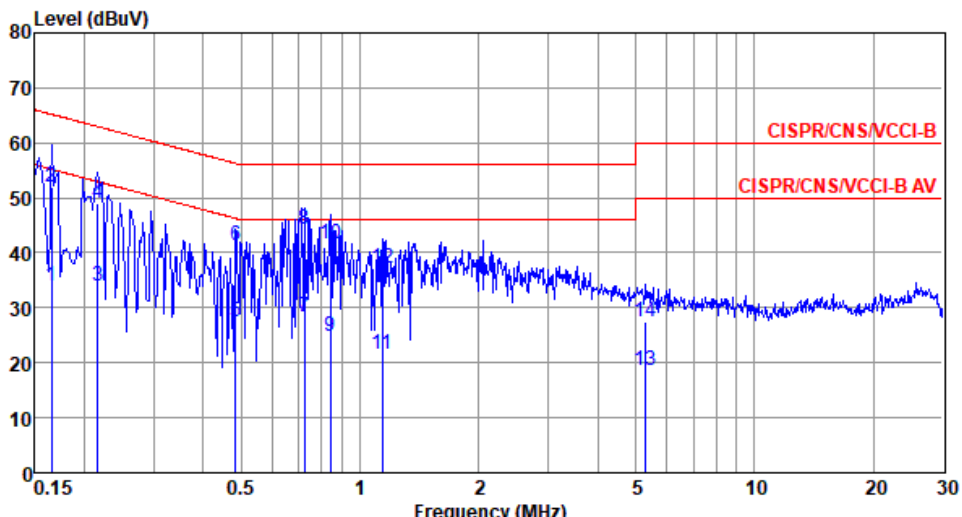
3.1.3 Test Setup



- 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	HT40	Test Freq. (MHz)	2437
Power Phase	Line		

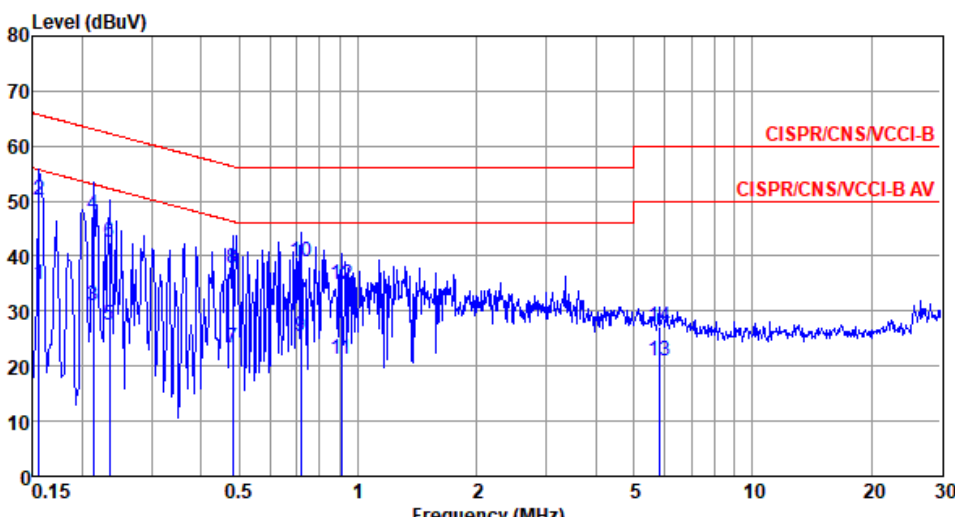


	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.165	33.83	55.21	-21.38	24.08	9.53	0.05	Average
2	0.165	52.05	65.21	-13.16	42.30	9.53	0.05	QP
3	0.216	33.85	52.96	-19.11	24.05	9.54	0.06	Average
4	0.216	48.99	62.96	-13.97	39.19	9.54	0.06	QP
5	0.484	27.56	46.27	-18.71	17.63	9.58	0.09	Average
6	0.484	41.34	56.27	-14.93	31.41	9.58	0.09	QP
7	0.724	28.43	46.00	-17.57	18.43	9.59	0.11	Average
8*	0.724	44.34	56.00	-11.66	34.34	9.59	0.11	QP
9	0.839	24.85	46.00	-21.15	14.84	9.59	0.11	Average
10	0.839	41.52	56.00	-14.48	31.51	9.59	0.11	QP
11	1.141	21.58	46.00	-24.42	11.53	9.60	0.13	Average
12	1.141	37.06	56.00	-18.94	27.01	9.60	0.13	QP
13	5.305	18.61	50.00	-31.39	8.29	9.62	0.32	Average
14	5.305	27.56	60.00	-32.44	17.24	9.62	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	HT40	Test Freq. (MHz)	2437
Power Phase	Neutral		



Level (dBuV)

Frequency (MHz)

CISPR/CNS/VCCI-B

CISPR/CNS/VCCI-B AV

13

	Freq	Level	Limit	Over	Read	LISN	cable	
	MHz	dBuV	Line	Limit	Level	factor	loss	Remark
			dBuV	dB	dBuV	dB	dB	
1	0.156	34.69	55.69	-21.00	24.95	9.57	0.05	Average
2*	0.156	50.28	65.69	-15.41	40.54	9.57	0.05	QP
3	0.213	31.13	53.10	-21.97	21.34	9.58	0.06	Average
4	0.213	47.51	63.10	-15.59	37.72	9.58	0.06	QP
5	0.234	27.43	52.30	-24.87	17.63	9.59	0.06	Average
6	0.234	42.37	62.30	-19.93	32.57	9.59	0.06	QP
7	0.481	23.34	46.32	-22.98	13.45	9.62	0.09	Average
8	0.481	37.87	56.32	-18.45	27.98	9.62	0.09	QP
9	0.716	25.25	46.00	-20.75	15.32	9.63	0.11	Average
10	0.716	38.91	56.00	-17.09	28.98	9.63	0.11	QP
11	0.909	21.21	46.00	-24.79	11.25	9.64	0.12	Average
12	0.909	34.81	56.00	-21.19	24.85	9.64	0.12	QP
13	5.805	21.08	50.00	-28.92	10.78	9.68	0.33	Average
14	5.805	27.08	60.00	-32.92	16.78	9.68	0.33	QP

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

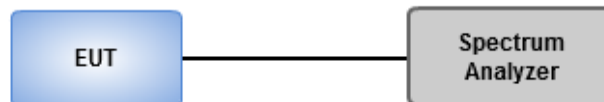
6dB Bandwidth

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

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	8.551M	13.097M	13M1G1D	8.043M	13.097M
802.11g_Nss1,(6Mbps)_1TX	16.594M	16.932M	16M9D1D	16.304M	16.715M
802.11n HT20_Nss1,(MCS0)_1TX	17.754M	17.945M	17M9D1D	17.609M	17.873M
802.11n HT40_Nss1,(MCS0)_1TX	35.362M	36.324M	36M3D1D	35.072M	36.179M

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

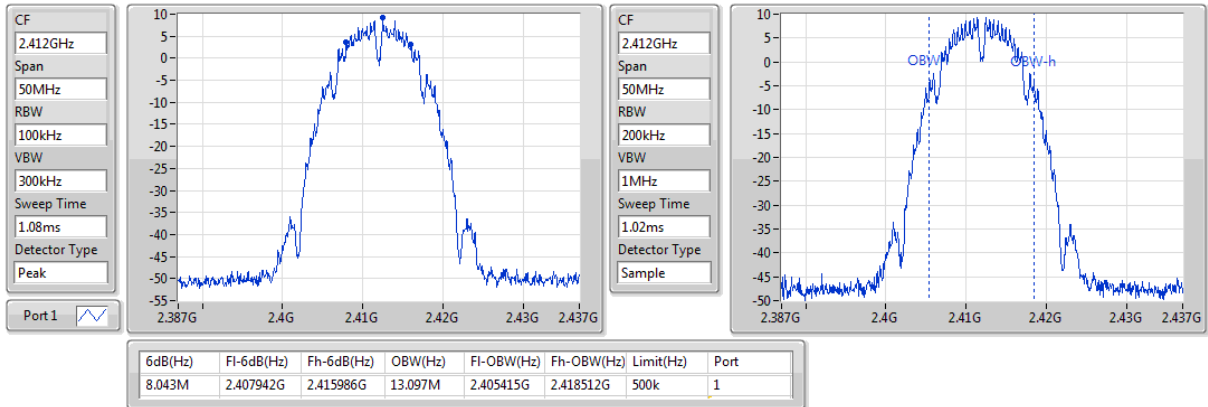
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	8.043M	13.097M
2437MHz	Pass	500k	8.551M	13.097M
2462MHz	Pass	500k	8.043M	13.097M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.377M	16.715M
2437MHz	Pass	500k	16.304M	16.932M
2462MHz	Pass	500k	16.594M	16.787M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.754M	17.873M
2437MHz	Pass	500k	17.609M	17.945M
2462MHz	Pass	500k	17.609M	17.873M
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	35.362M	36.179M
2437MHz	Pass	500k	35.072M	36.179M
2452MHz	Pass	500k	35.072M	36.324M

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

802.11b_Nss1,(1Mbps)_1TX

EBW

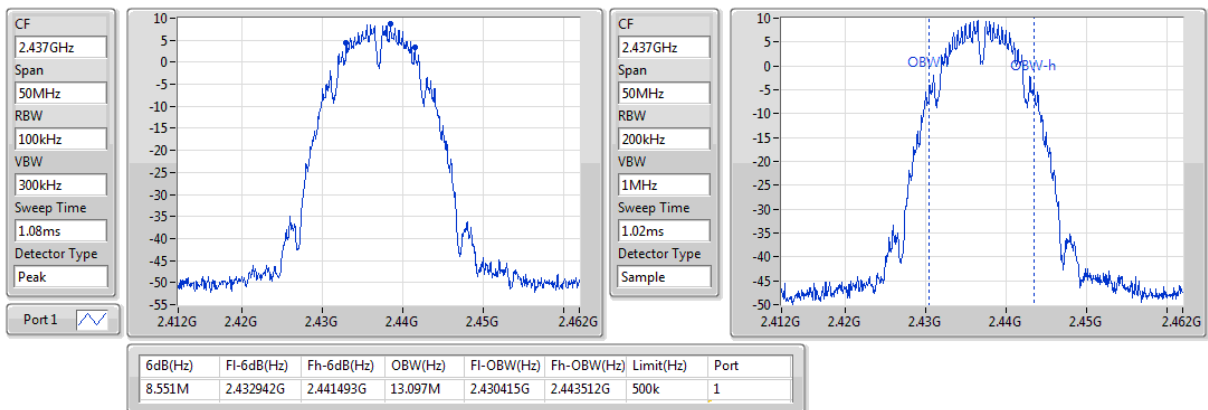
2412MHz



802.11b_Nss1,(1Mbps)_1TX

EBW

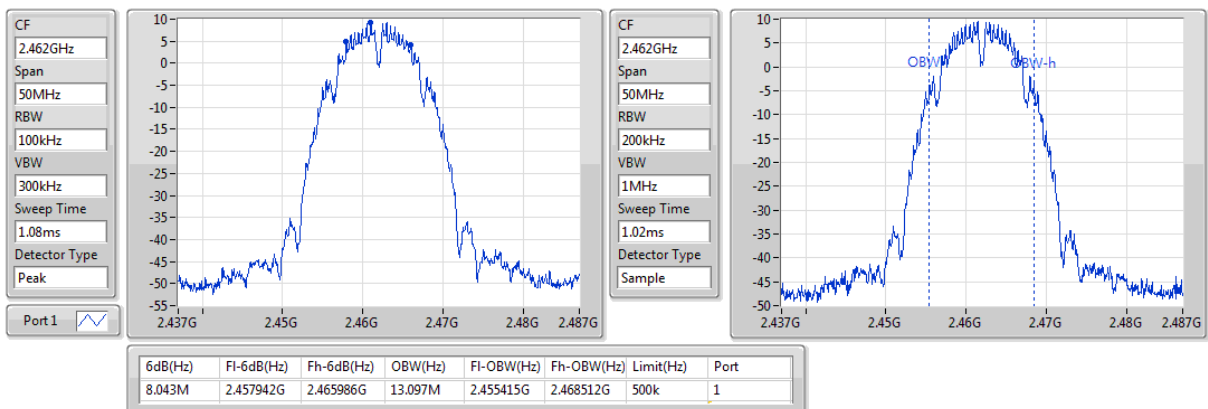
2437MHz



802.11b_Nss1,(1Mbps)_1TX

EBW

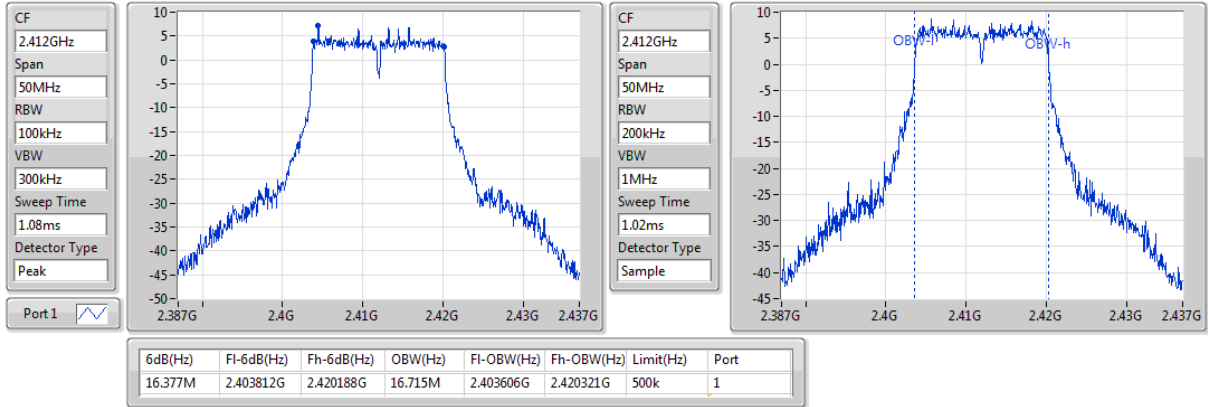
2462MHz



802.11g_Nss1,(6Mbps)_1TX

EBW

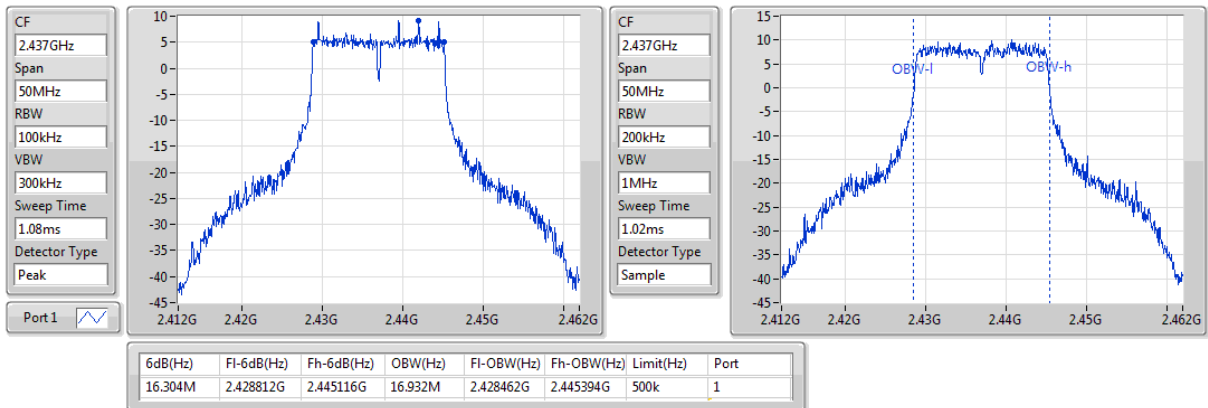
2412MHz



802.11g_Nss1,(6Mbps)_1TX

EBW

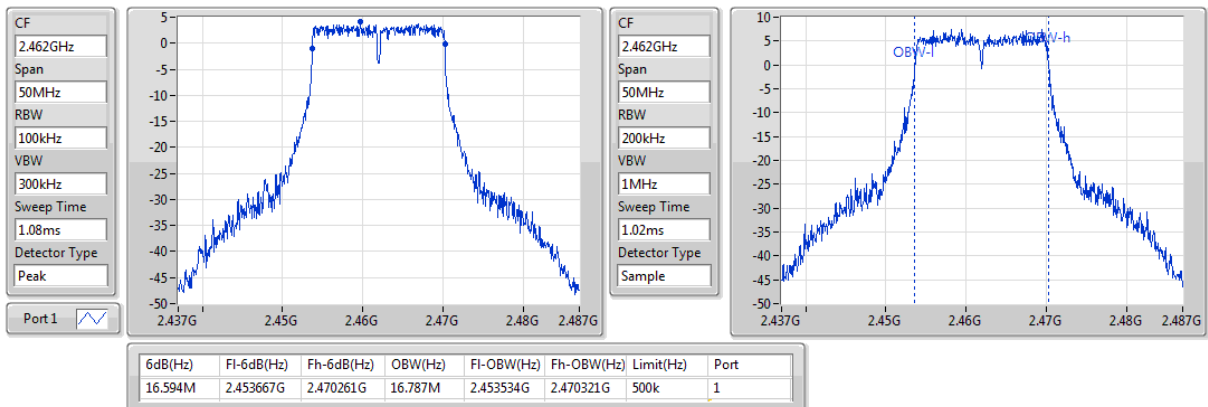
2437MHz



802.11g_Nss1,(6Mbps)_1TX

EBW

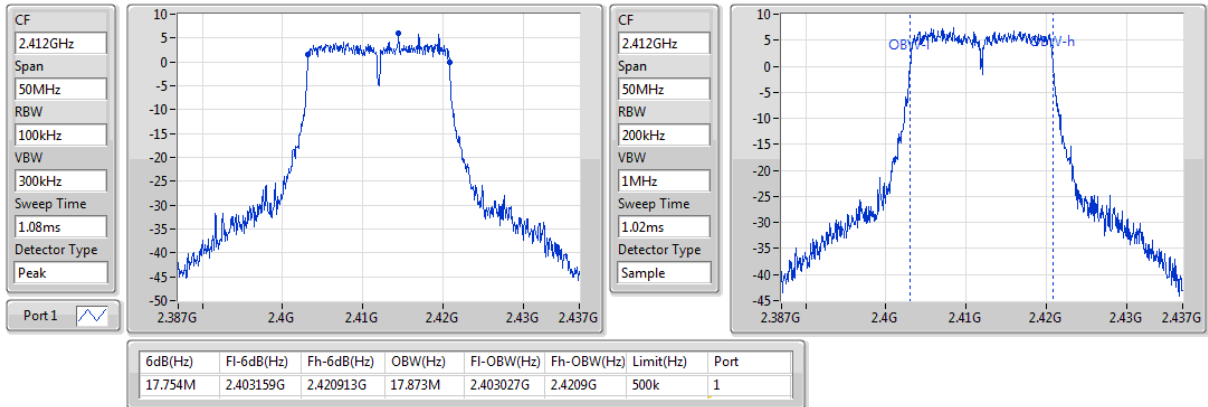
2462MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

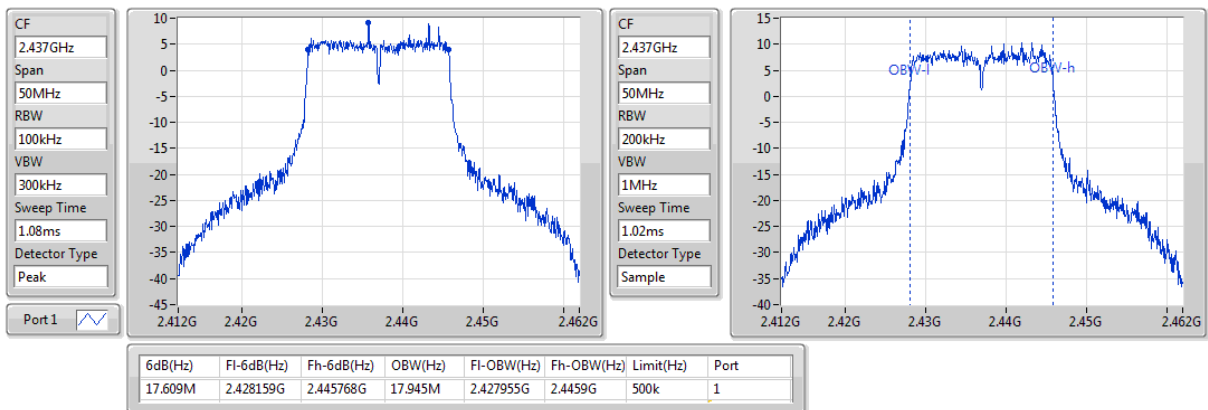
2412MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

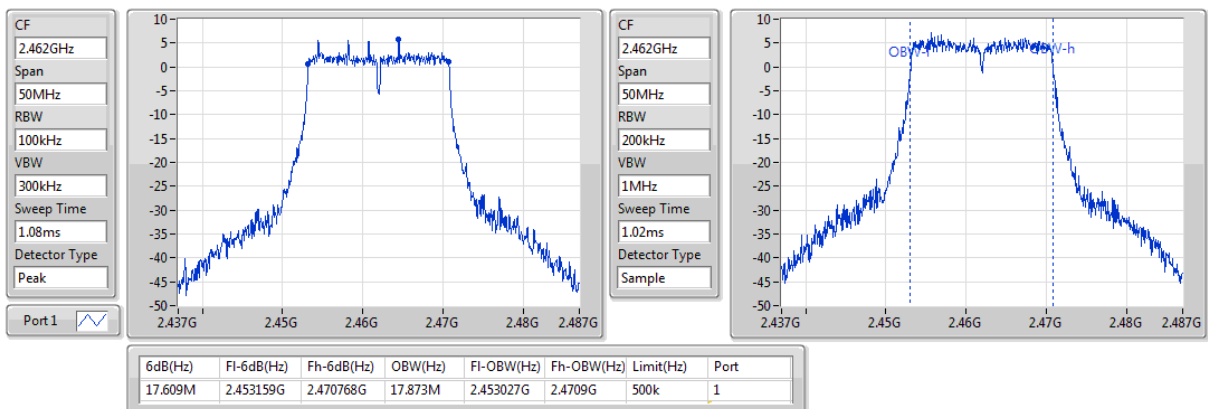
2437MHz



802.11n HT20_Nss1,(MCS0)_1TX

EBW

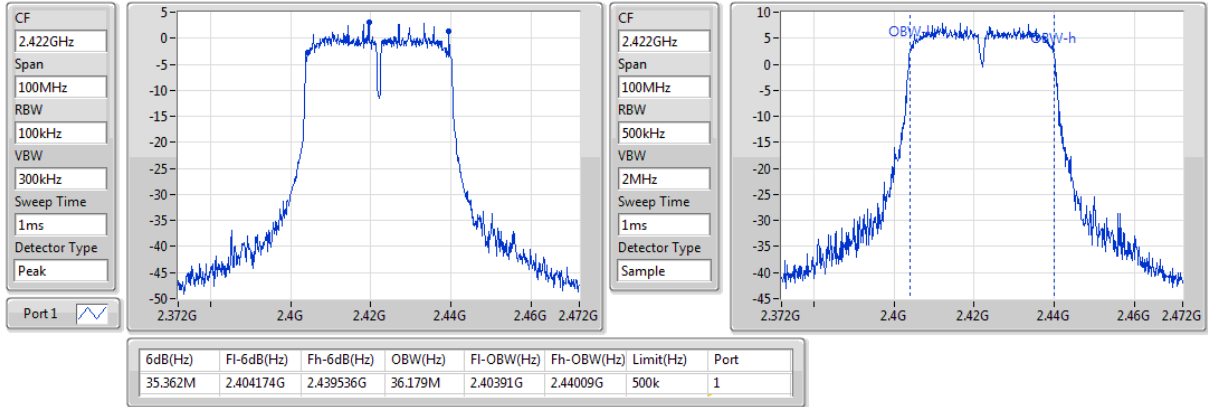
2462MHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

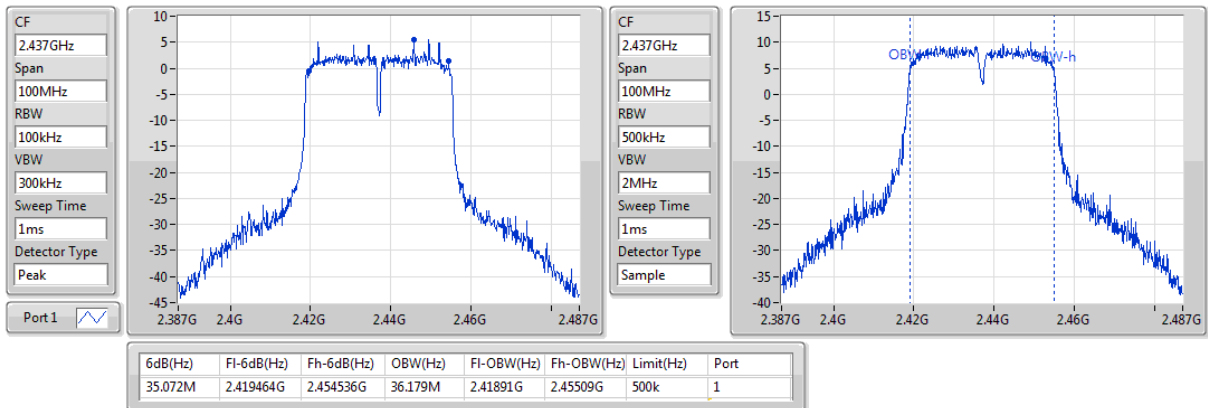
2422MHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

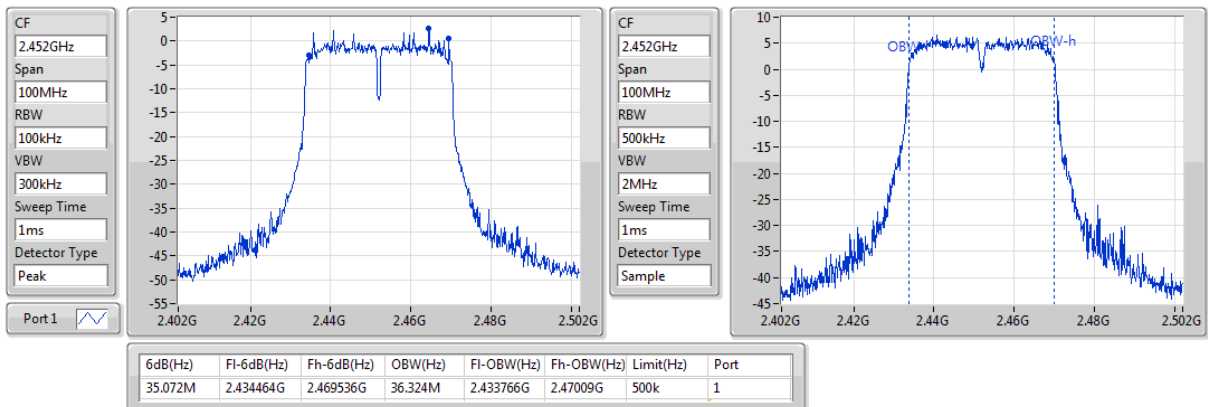
2437MHz



802.11n HT40_Nss1,(MCS0)_1TX

EBW

2452MHz



3.3 RF Output Power

3.3.1 Limit of RF Output Power

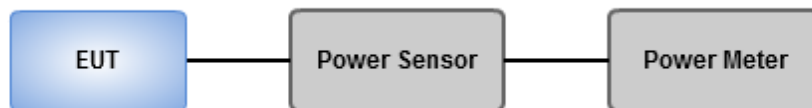
Conducted power shall not exceed 1Watt.

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

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

Summary of Peak Conducted Output Power

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	20.96	0.12474
802.11g_Nss1,(6Mbps)_1TX	26.95	0.49545
802.11n HT20_Nss1,(MCS0)_1TX	26.91	0.49091
802.11n HT40_Nss1,(MCS0)_1TX	27.03	0.50466

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	2.40	20.65	20.65	30.00	23.05	36.00
2437MHz	Pass	2.40	20.71	20.71	30.00	23.11	36.00
2462MHz	Pass	2.40	20.96	20.96	30.00	23.36	36.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	2.40	26.34	26.34	30.00	28.74	36.00
2437MHz	Pass	2.40	26.95	26.95	30.00	29.35	36.00
2462MHz	Pass	2.40	26.37	26.37	30.00	28.77	36.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	2.40	26.61	26.61	30.00	29.01	36.00
2437MHz	Pass	2.40	26.91	26.91	30.00	29.31	36.00
2462MHz	Pass	2.40	26.11	26.11	30.00	28.51	36.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2422MHz	Pass	2.40	25.83	25.83	30.00	28.23	36.00
2437MHz	Pass	2.40	27.03	27.03	30.00	29.43	36.00
2452MHz	Pass	2.40	25.22	25.22	30.00	27.62	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	18.50	0.07079
802.11g_Nss1,(6Mbps)_1TX	20.80	0.12023
802.11n HT20_Nss1,(MCS0)_1TX	20.79	0.11995
802.11n HT40_Nss1,(MCS0)_1TX	20.06	0.10139

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	2.40	18.02	18.02	-	20.42	-
2437MHz	Pass	2.40	18.03	18.03	-	20.43	-
2462MHz	Pass	2.40	18.50	18.50	-	20.90	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	2.40	19.32	19.32	-	21.72	-
2437MHz	Pass	2.40	20.80	20.80	-	23.20	-
2462MHz	Pass	2.40	18.51	18.51	-	20.91	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2412MHz	Pass	2.40	18.89	18.89	-	21.29	-
2437MHz	Pass	2.40	20.79	20.79	-	23.19	-
2462MHz	Pass	2.40	18.08	18.08	-	20.48	-
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-
2422MHz	Pass	2.40	17.73	17.73	-	20.13	-
2437MHz	Pass	2.40	20.06	20.06	-	22.46	-
2452MHz	Pass	2.40	17.05	17.05	-	19.45	-

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

Note : Conducted average output power is for reference only

3.4 Power Spectral Density

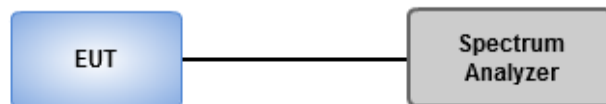
3.4.1 Limit of Power Spectral Density

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

3.4.2 Test Procedures

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.

3.4.3 Test Setup



3.4.4 Test Result of Power Spectral Density

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-3.56
802.11g_Nss1,(6Mbps)_1TX	-4.64
802.11n HT20_Nss1,(MCS0)_1TX	-4.83
802.11n HT40_Nss1,(MCS0)_1TX	-8.22

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.40	-4.85	-4.85	8.00
2437MHz	Pass	2.40	-4.57	-4.57	8.00
2462MHz	Pass	2.40	-3.56	-3.56	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.40	-6.51	-6.51	8.00
2437MHz	Pass	2.40	-4.64	-4.64	8.00
2462MHz	Pass	2.40	-7.27	-7.27	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.40	-6.74	-6.74	8.00
2437MHz	Pass	2.40	-4.83	-4.83	8.00
2462MHz	Pass	2.40	-7.93	-7.93	8.00
802.11n HT40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	2.40	-10.20	-10.20	8.00
2437MHz	Pass	2.40	-8.22	-8.22	8.00
2452MHz	Pass	2.40	-10.52	-10.52	8.00

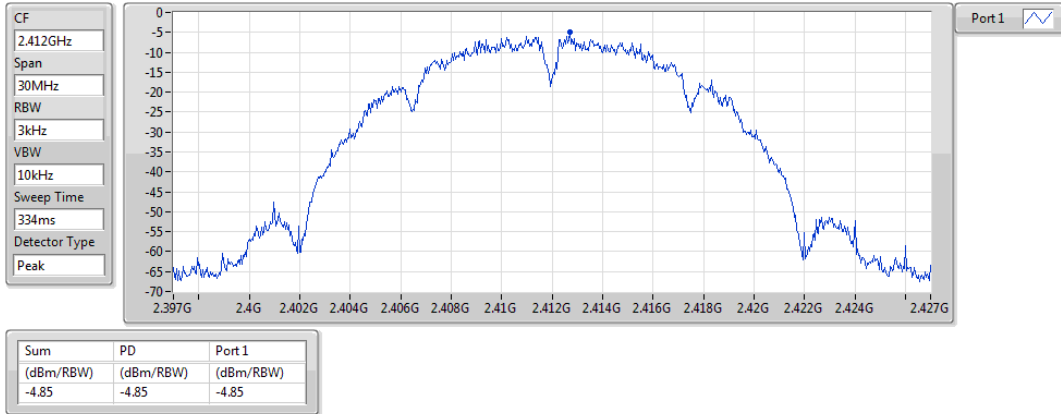
DG = Directional Gain;

PD = power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_1TX

PSD

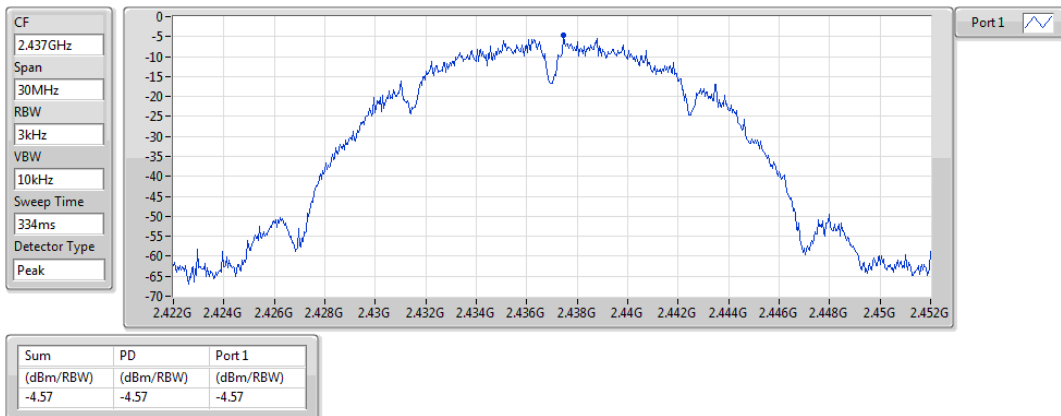
2412MHz



802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz



802.11b_Nss1,(1Mbps)_1TX

PSD

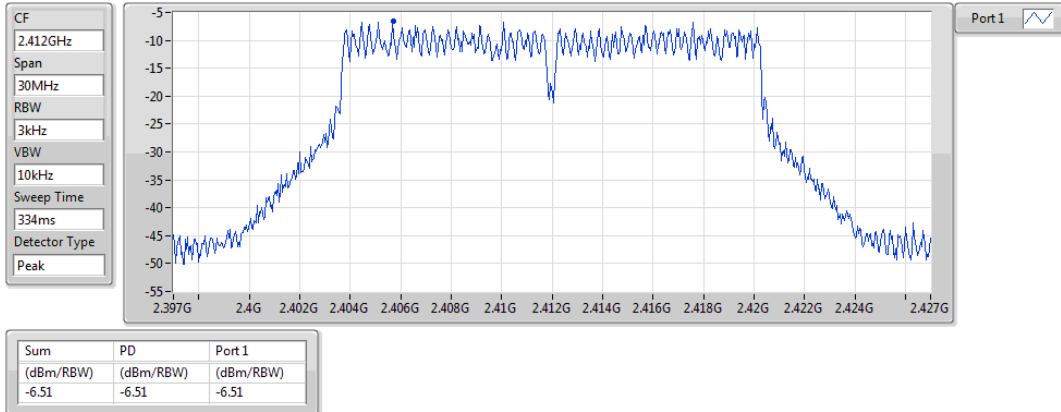
2462MHz



802.11g_Nss1,(6Mbps)_1TX

PSD

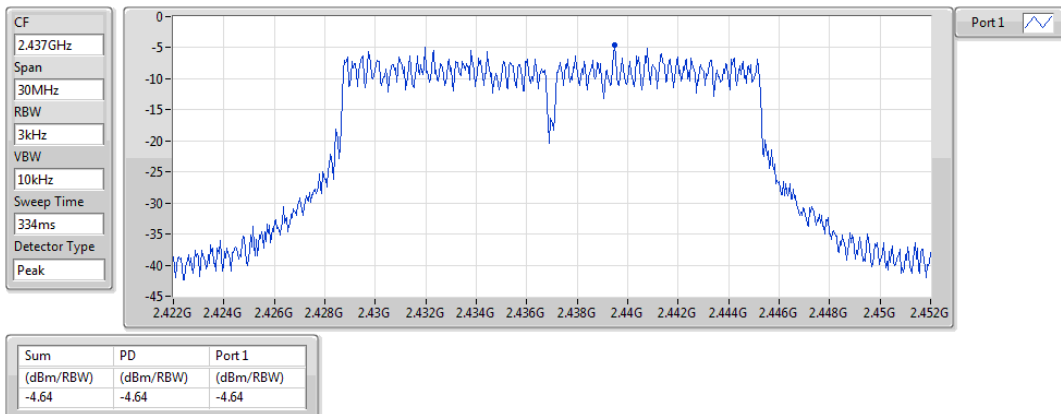
2412MHz



802.11g_Nss1,(6Mbps)_1TX

PSD

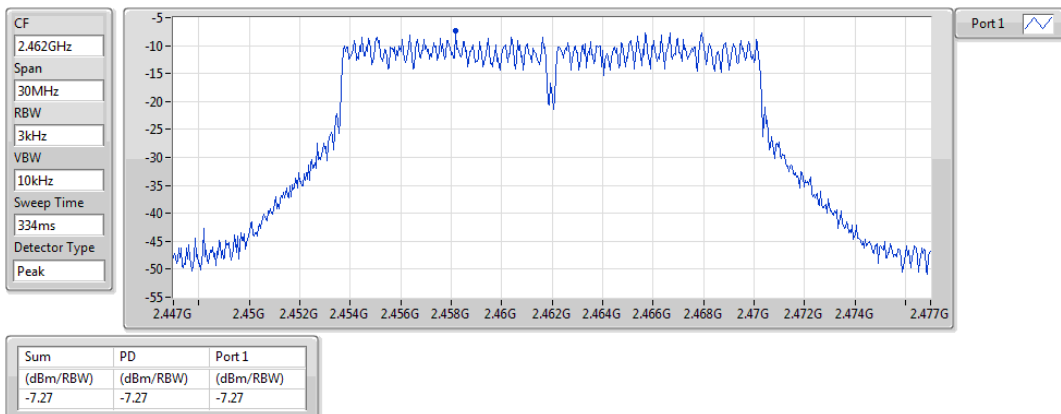
2437MHz



802.11g_Nss1,(6Mbps)_1TX

PSD

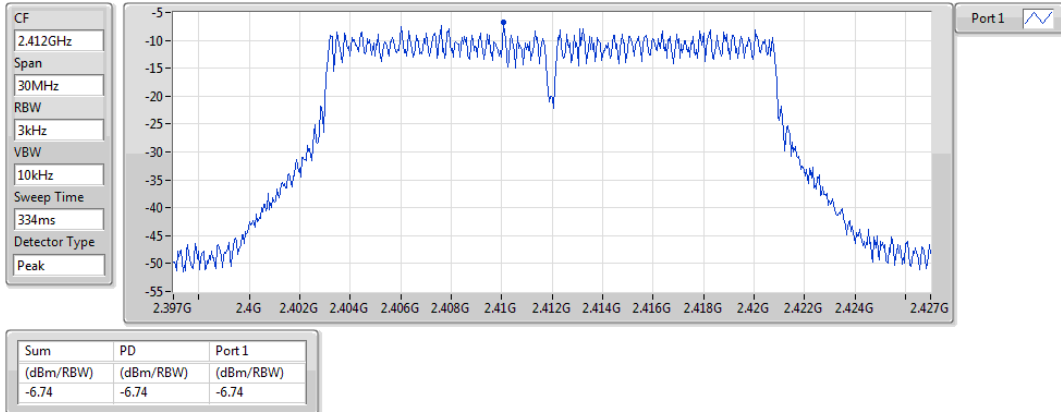
2462MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

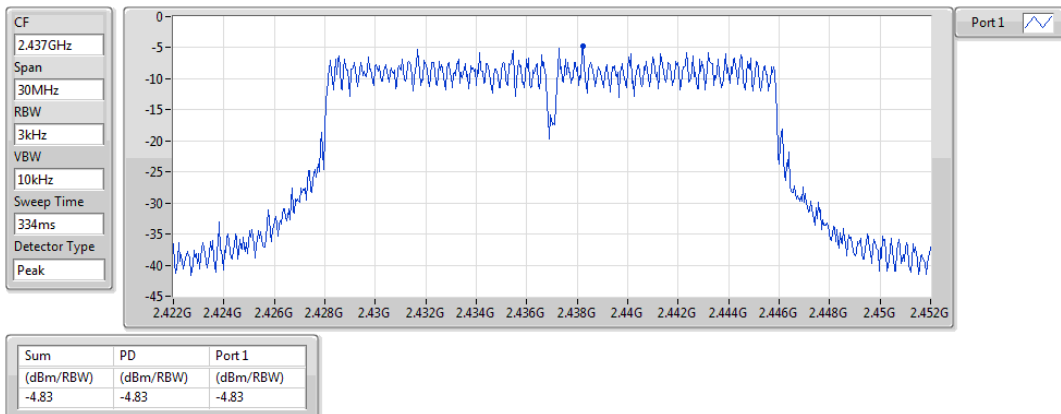
2412MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

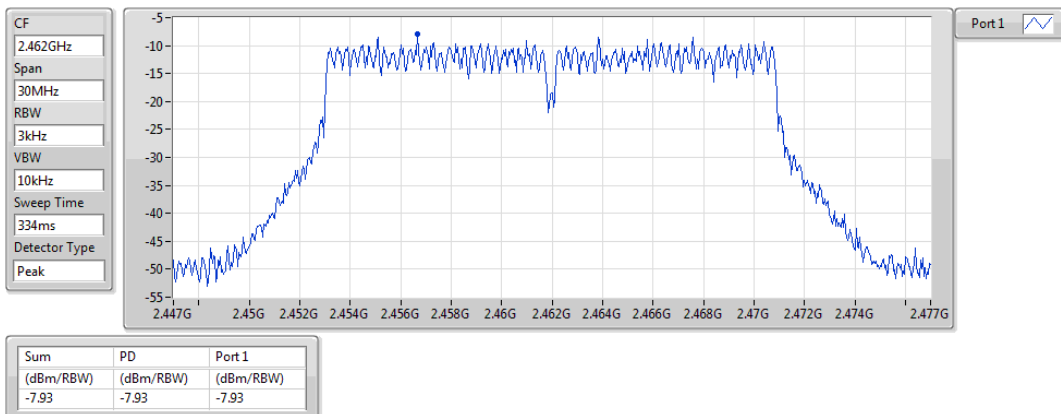
2437MHz



802.11n HT20_Nss1,(MCS0)_1TX

PSD

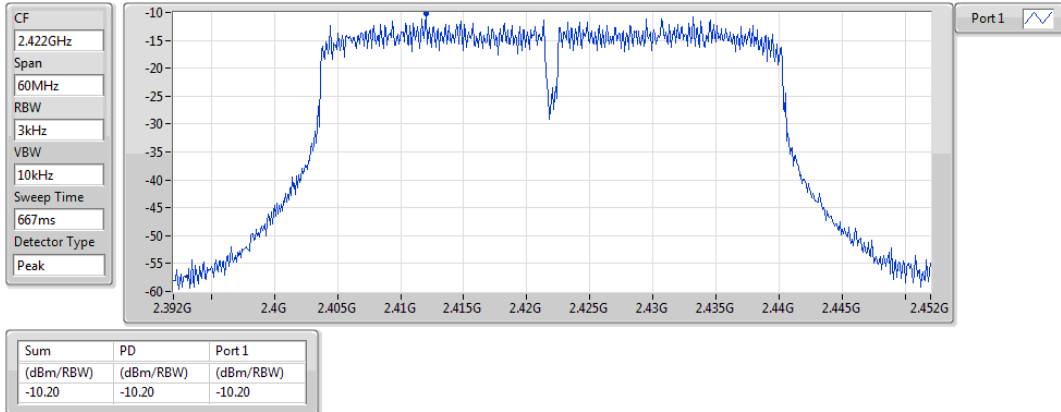
2462MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

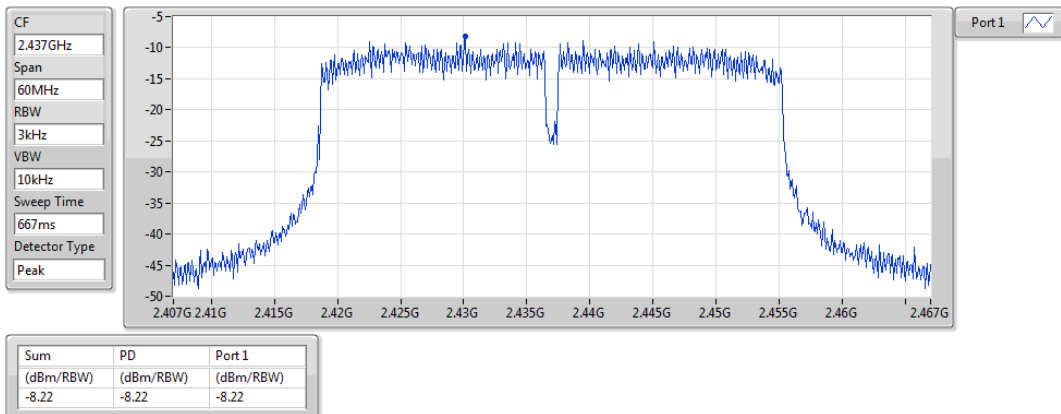
2422MHz



802.11n HT40_Nss1,(MCS0)_1TX

PSD

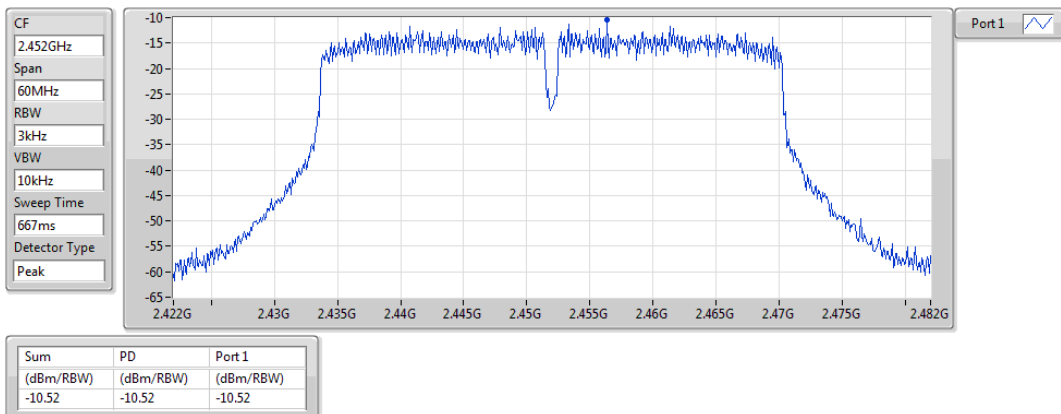
2437MHz



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

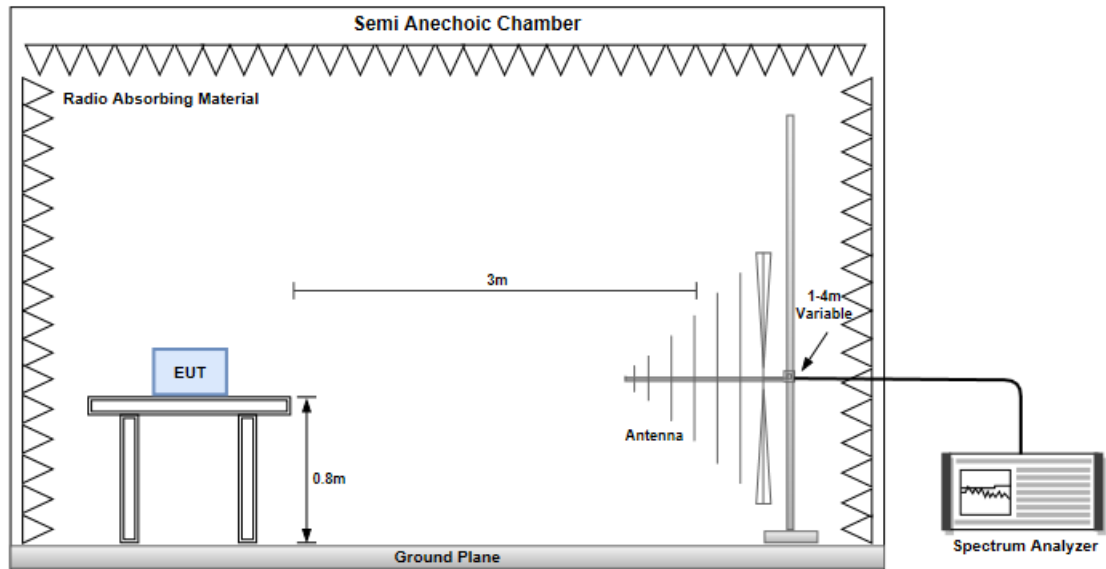
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

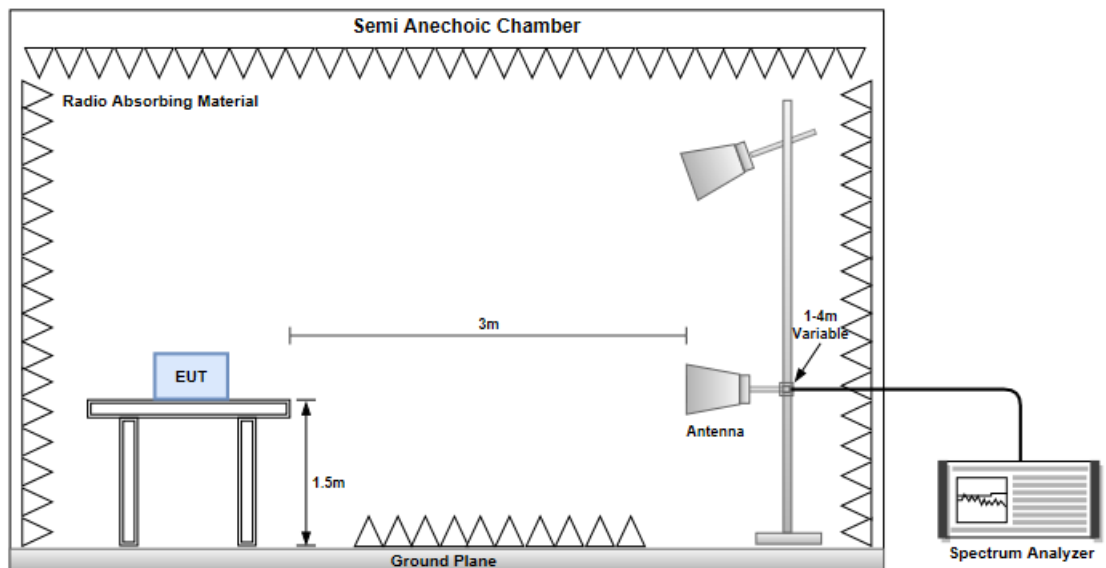
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz

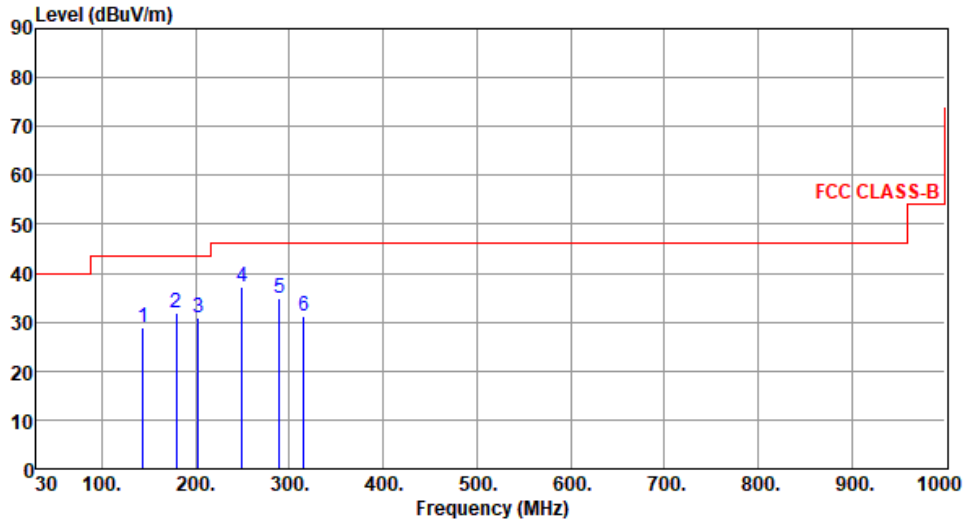


Radiated Emissions above 1 GHz



3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal		

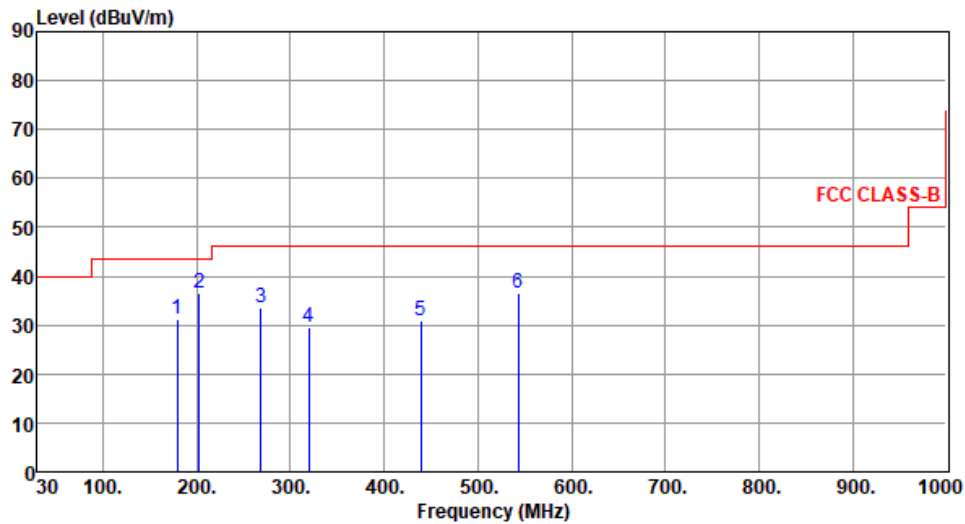


The graph displays the radiated unwanted emissions of a transmitter below 1 GHz. The y-axis represents the emission level in dBuV/m, ranging from 0 to 90. The x-axis represents the frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBuV/m from 30 MHz to 100 MHz, 45 dBuV/m from 100 MHz to 300 MHz, and 55 dBuV/m from 300 MHz to 1000 MHz. Six emission peaks are identified and labeled with numbers 1 through 6. The data for these peaks is provided in the table below.

	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	143.49	28.82	43.50	-14.68	37.72	-8.90	Peak	---	---
2	179.38	31.75	43.50	-11.75	41.96	-10.21	Peak	---	---
3	202.66	30.96	43.50	-12.54	43.10	-12.14	Peak	---	---
4	249.22	37.32	46.00	-8.68	47.50	-10.18	Peak	---	---
5	288.99	34.93	46.00	-11.07	43.77	-8.84	Peak	---	---
6	315.18	31.31	46.00	-14.69	39.33	-8.02	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	HT40	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	179.38	31.15	43.50	-12.35	41.36	-10.21	Peak	---	---
2	202.66	36.45	43.50	-7.05	48.59	-12.14	Peak	---	---
3	268.62	33.68	46.00	-12.32	43.25	-9.57	Peak	---	---
4	320.03	29.51	46.00	-16.49	37.41	-7.90	Peak	---	---
5	439.34	30.76	46.00	-15.24	35.42	-4.66	Peak	---	---
6	543.13	36.57	46.00	-9.43	39.55	-2.98	Peak	---	---

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

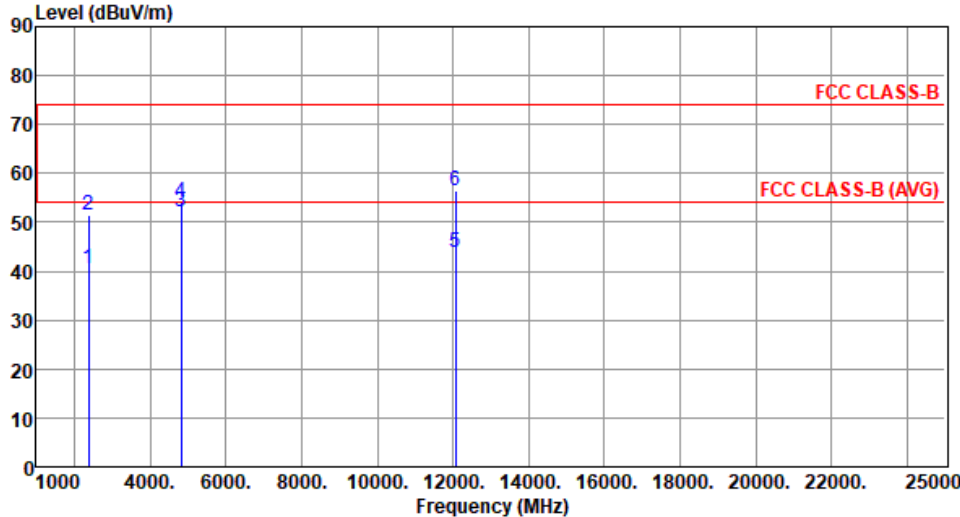
*Factor includes antenna factor , cable loss and amplifier gain

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		

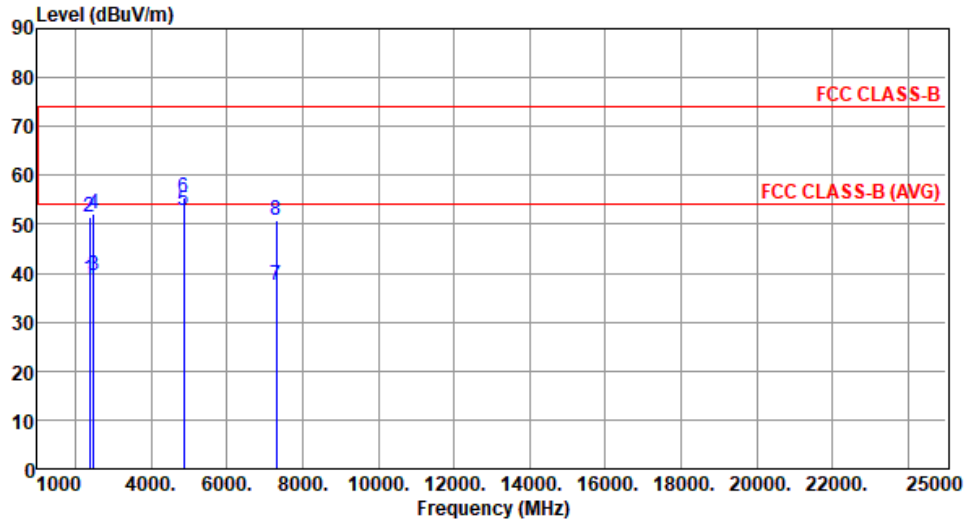


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	40.42	54.00	-13.58	43.22	-2.80	Average	225	326
2	2390.00	51.45	74.00	-22.55	54.25	-2.80	Peak	225	326
3	4824.00	52.15	54.00	-1.85	48.55	3.60	Average	142	115
4	4824.00	54.28	74.00	-19.72	50.68	3.60	Peak	142	115
5	12060.00	43.90	54.00	-10.10	30.05	13.85	Average	100	50
6	12060.00	56.32	74.00	-17.68	42.47	13.85	Peak	100	50

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).

Modulation	11b	Test Freq. (MHz)	2412
Polarization	Vertical		
Level (dBUV/m) <			

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



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	39.01	54.00	-14.99	41.81	-2.80	Average	221	326
2	2390.00	51.32	74.00	-22.68	54.12	-2.80	Peak	221	326
3	2483.50	39.44	54.00	-14.56	42.47	-3.03	Average	221	326
4	2483.50	52.04	74.00	-21.96	55.07	-3.03	Peak	221	326
5	4874.00	52.84	54.00	-1.16	49.20	3.64	Average	147	114
6	4874.00	55.33	74.00	-18.67	51.69	3.64	Peak	147	114
7	7311.00	37.51	54.00	-16.49	28.24	9.27	Average	100	50
8	7311.00	50.65	74.00	-23.35	41.38	9.27	Peak	100	50

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).

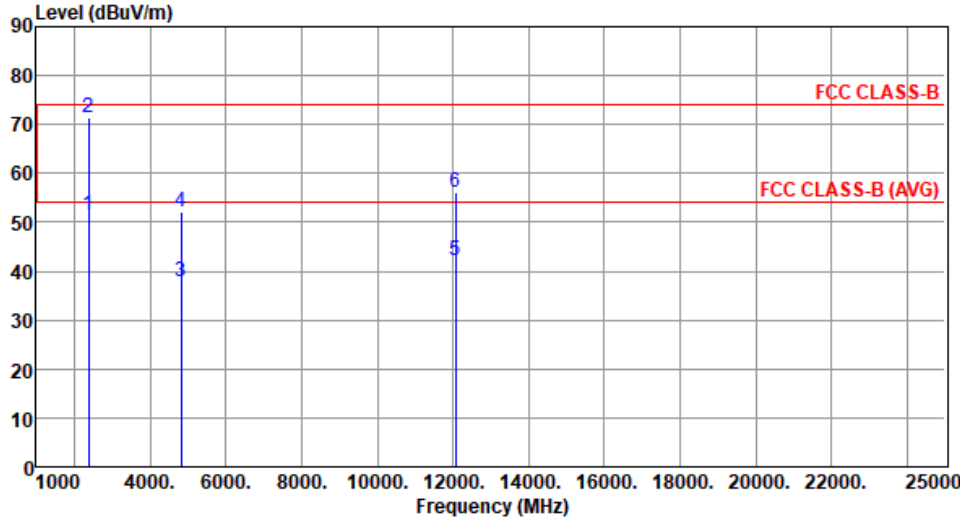
Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		
Level (dBuV/m) </			

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal		
Level (dBUV/m) <			

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Vertical		
Level (dBUV/m)			

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

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Horizontal		



	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	51.36	54.00	-2.64	54.16	-2.80	Average	185	327
2	2390.00	71.45	74.00	-2.55	74.25	-2.80	Peak	185	327
3	4824.00	37.81	54.00	-16.19	34.21	3.60	Average	144	120
4	4824.00	52.17	74.00	-21.83	48.57	3.60	Peak	144	120
5	12060.00	42.10	54.00	-11.90	28.25	13.85	Average	100	121
6	12060.00	56.08	74.00	-17.92	42.23	13.85	Peak	100	121

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).

Modulation	11g	Test Freq. (MHz)	2412
Polarization	Vertical		
Level (dBUV/m) <			

Modulation	11g	Test Freq. (MHz)	2437
Polarization	Horizontal		
Level (dBuV/m) </			

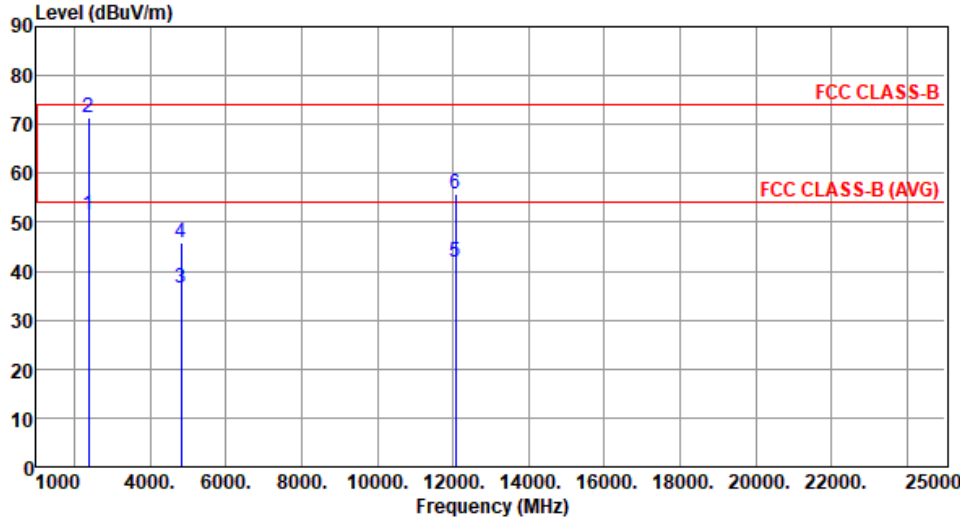
Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical		
Level (dBUV/m)			

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal		
Level (dBUV/m)			

Modulation	11g	Test Freq. (MHz)	2462
Polarization	Vertical		
Level (dBUV/m) </			

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

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal		



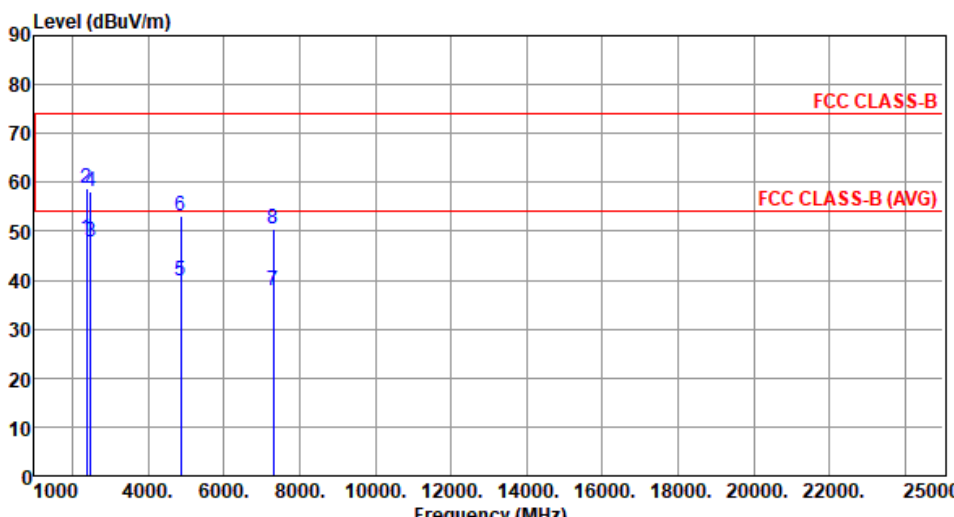
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	51.38	54.00	-2.62	54.18	-2.80	Average	188	327
2	2390.00	71.32	74.00	-2.68	74.12	-2.80	Peak	188	327
3	4824.00	36.64	54.00	-17.36	33.04	3.60	Average	141	115
4	4824.00	45.79	74.00	-28.21	42.19	3.60	Peak	141	115
5	12060.00	41.99	54.00	-12.01	28.14	13.85	Average	100	123
6	12060.00	55.85	74.00	-18.15	42.00	13.85	Peak	100	123

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).

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Vertical		
Level (dBUV/m) <			

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal		
Level (dBUV/m)			

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
		dBuV/m			dBuV			cm	deg
1	2390.00	48.37	54.00	-5.63	51.17	-2.80	Average	100	156
2	2390.00	58.67	74.00	-15.33	61.47	-2.80	Peak	100	156
3	2483.50	47.97	54.00	-6.03	51.00	-3.03	Average	100	156
4	2483.50	57.97	74.00	-16.03	61.00	-3.03	Peak	100	156
5	4874.00	39.69	54.00	-14.31	36.05	3.64	Average	100	152
6	4874.00	53.14	74.00	-20.86	49.50	3.64	Peak	100	152
7	7311.00	37.78	54.00	-16.22	28.51	9.27	Average	100	20
8	7311.00	50.44	74.00	-23.56	41.17	9.27	Peak	100	20

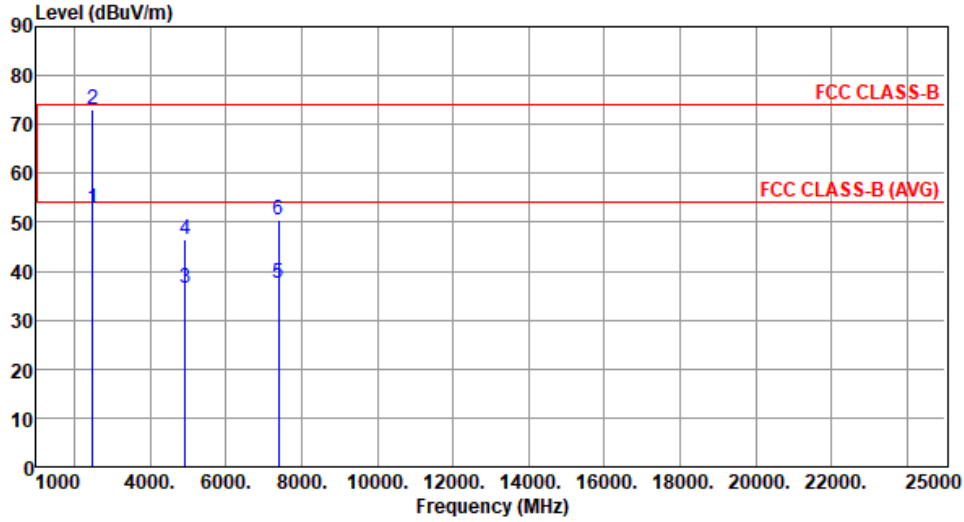
Note 1: Emission Level (dBUV/m) = SA Reading (dBUV/m) + Factor* (dB)

*Factor includes antenna factor , cable loss and amplifier gain

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

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Horizontal		
Level (dBUV/m) <			

Modulation	HT20	Test Freq. (MHz)	2462
Polarization	Vertical		

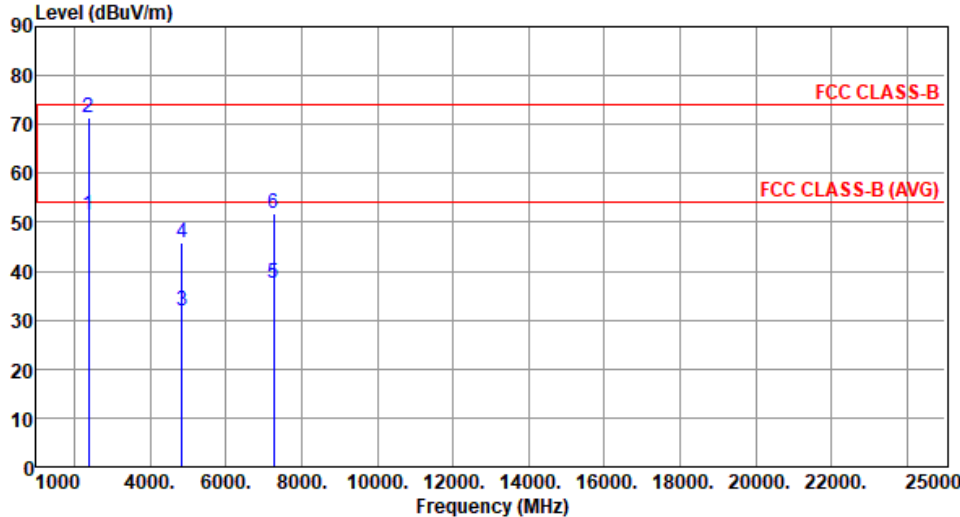


	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	52.83	54.00	-1.17	55.86	-3.03	Average	100	157
2	2483.50	72.98	74.00	-1.02	76.01	-3.03	Peak	100	157
3	4924.00	36.65	54.00	-17.35	32.96	3.69	Average	100	152
4	4924.00	46.54	74.00	-27.46	42.85	3.69	Peak	100	152
5	7386.00	37.46	54.00	-16.54	28.39	9.07	Average	100	159
6	7386.00	50.32	74.00	-23.68	41.25	9.07	Peak	100	159

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).

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

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		

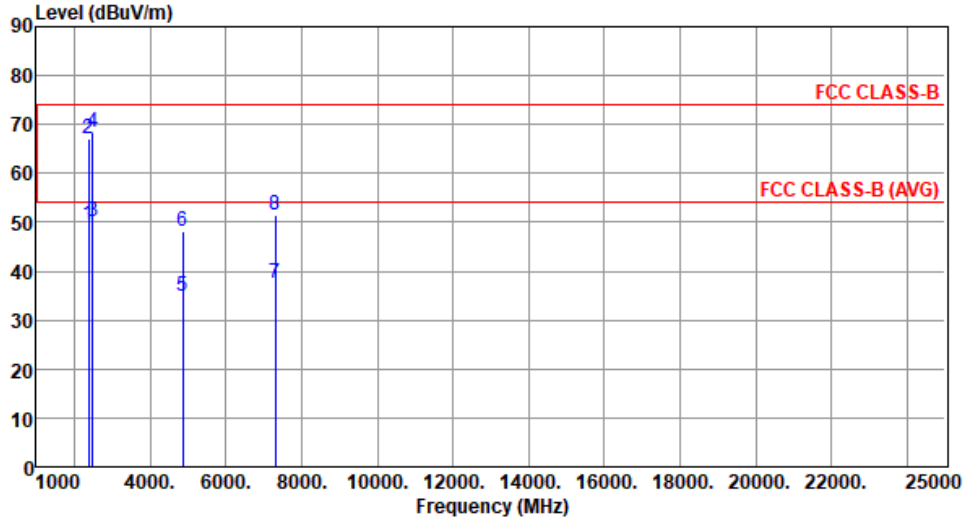


	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	51.58	54.00	-2.42	54.38	-2.80	Average	185	329
2	2390.00	71.28	74.00	-2.72	74.08	-2.80	Peak	185	329
3	4844.00	31.82	54.00	-22.18	28.17	3.65	Average	100	128
4	4844.00	45.90	74.00	-28.10	42.25	3.65	Peak	100	128
5	7266.00	37.63	54.00	-16.37	28.30	9.33	Average	100	130
6	7266.00	51.66	74.00	-22.34	42.33	9.33	Peak	100	130

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).

Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Vertical		
Level (dBuV/m)			

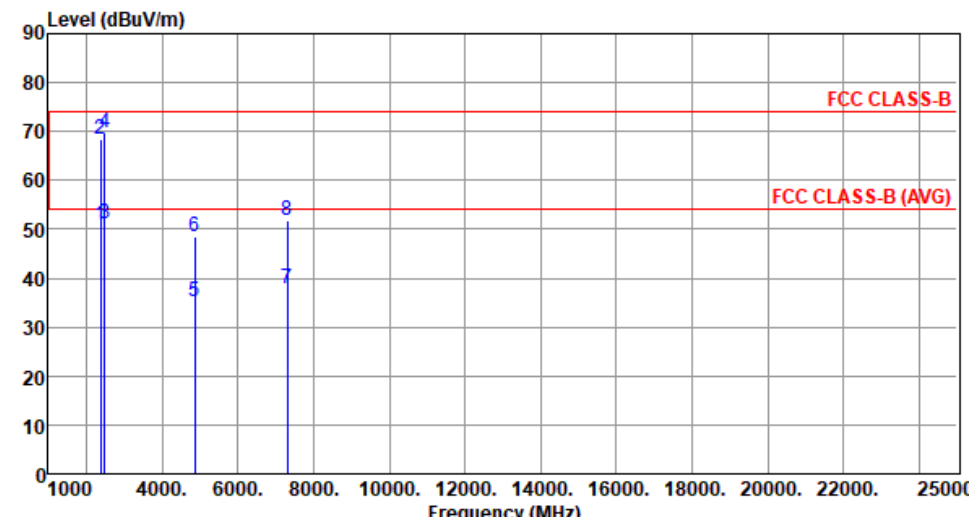
Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	49.51	54.00	-4.49	52.31	-2.80	Average	186	325
2	2390.00	67.05	74.00	-6.95	69.85	-2.80	Peak	186	325
3	2483.50	50.23	54.00	-3.77	53.26	-3.03	Average	186	325
4	2483.50	68.52	74.00	-5.48	71.55	-3.03	Peak	186	325
5	4874.00	34.75	54.00	-19.25	31.11	3.64	Average	100	129
6	4874.00	48.12	74.00	-25.88	44.48	3.64	Peak	100	129
7	7311.00	37.49	54.00	-16.51	28.22	9.27	Average	100	135
8	7311.00	51.46	74.00	-22.54	42.19	9.27	Peak	100	135

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).

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	50.74	54.00	-3.26	53.54	-2.80	Average	100	157
2	2390.00	68.34	74.00	-5.66	71.14	-2.80	Peak	100	157
3	2483.50	51.31	54.00	-2.69	54.34	-3.03	Average	100	157
4	2483.50	69.83	74.00	-4.17	72.86	-3.03	Peak	100	157
5	4874.00	35.22	54.00	-18.78	31.58	3.64	Average	100	154
6	4874.00	48.49	74.00	-25.51	44.85	3.64	Peak	100	154
7	7311.00	37.89	54.00	-16.11	28.62	9.27	Average	100	159
8	7311.00	51.84	74.00	-22.16	42.57	9.27	Peak	100	159

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).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal		
Level (dBUV/m) </			

Modulation	HT40	Test Freq. (MHz)	2452						
Polarization	Vertical								
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

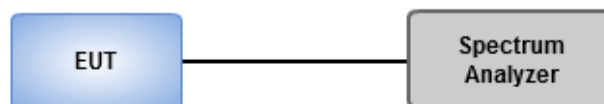
Reference level measurement

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

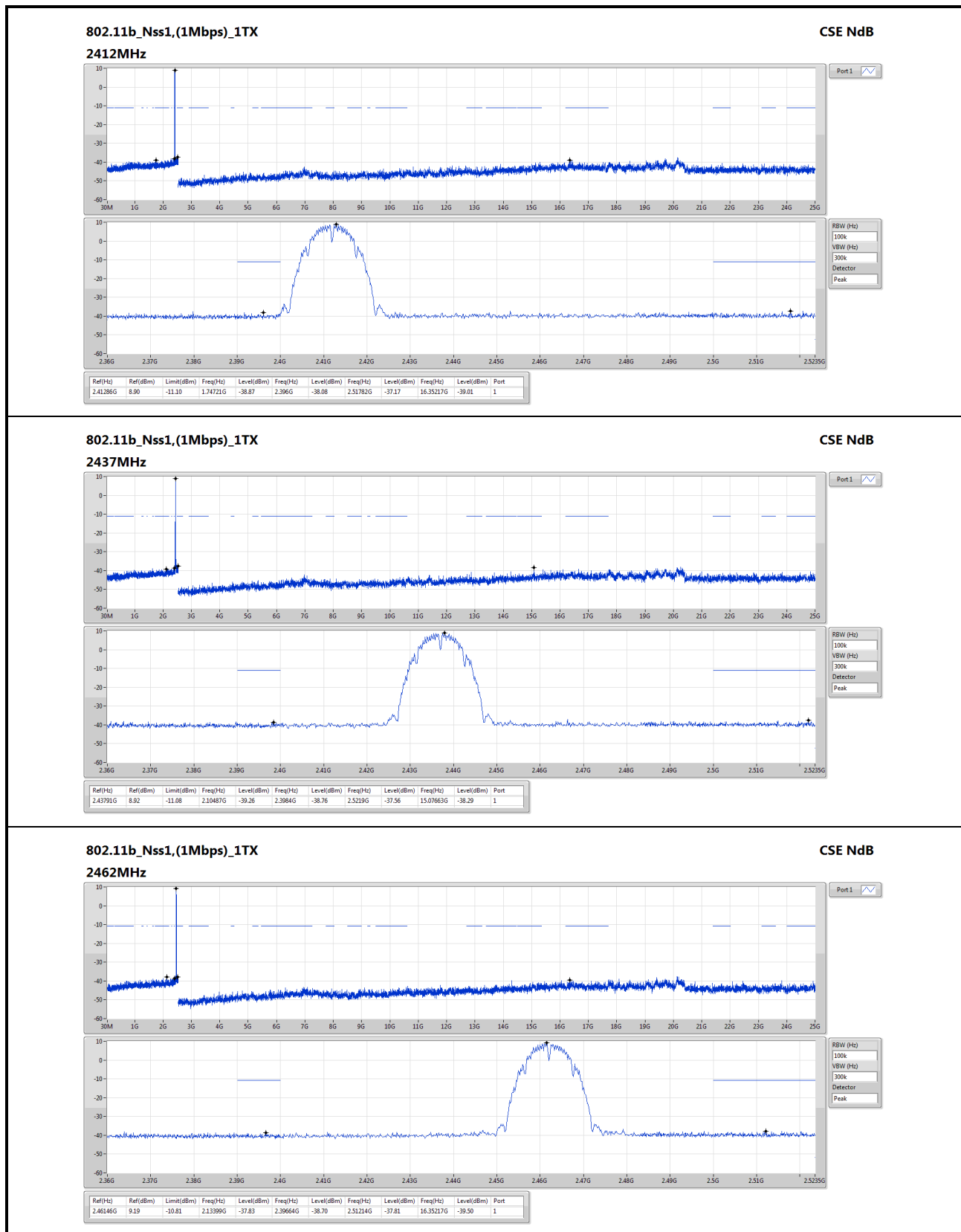
Emission level measurement

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



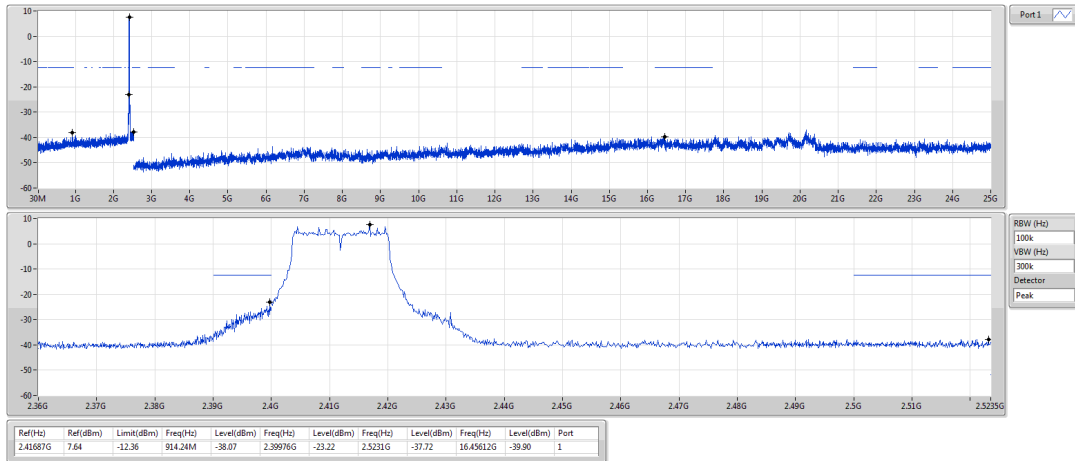
3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands



802.11g_Nss1,(6Mbps)_1TX

2412MHz

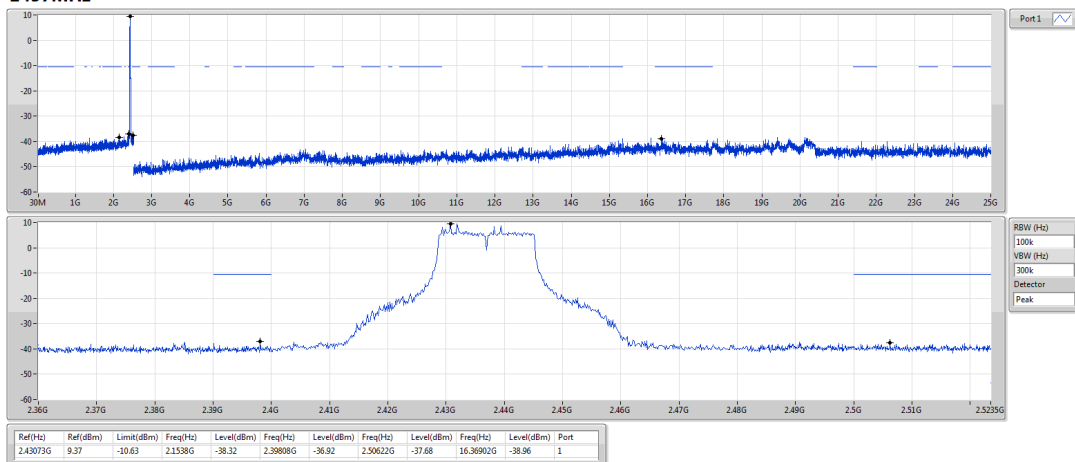
CSE NdB



802.11g_Nss1,(6Mbps)_1TX

2437MHz

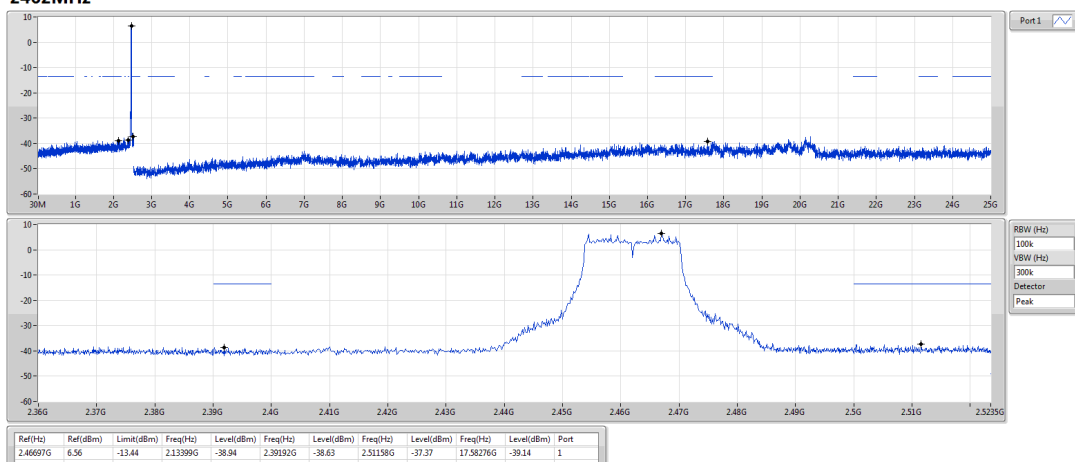
CSE NdB



802.11g_Nss1,(6Mbps)_1TX

2462MHz

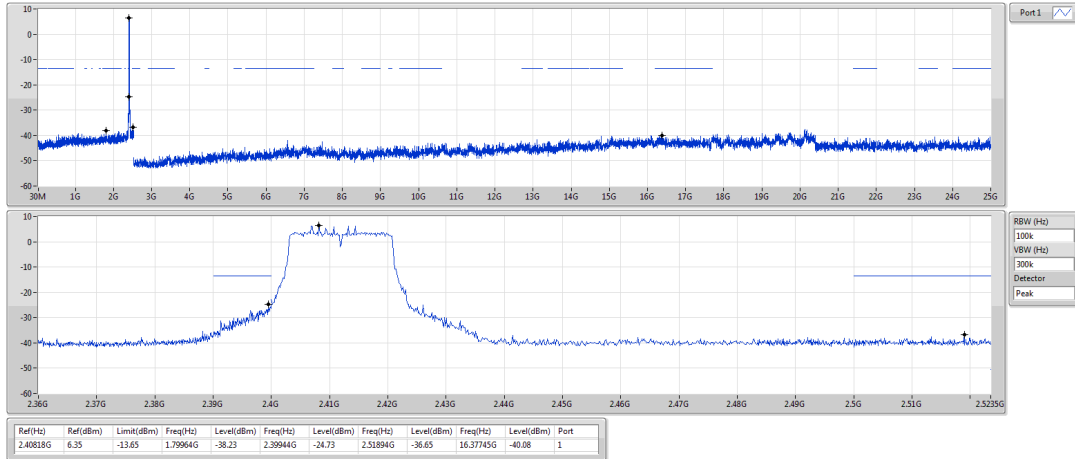
CSE NdB



802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

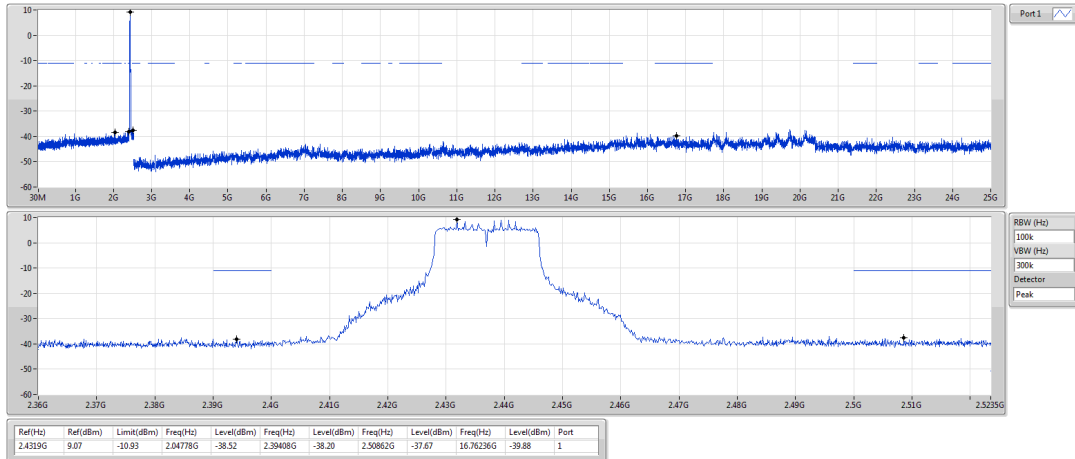
2412MHz



802.11n HT20_Nss1,(MCS0)_1TX

CSE NdB

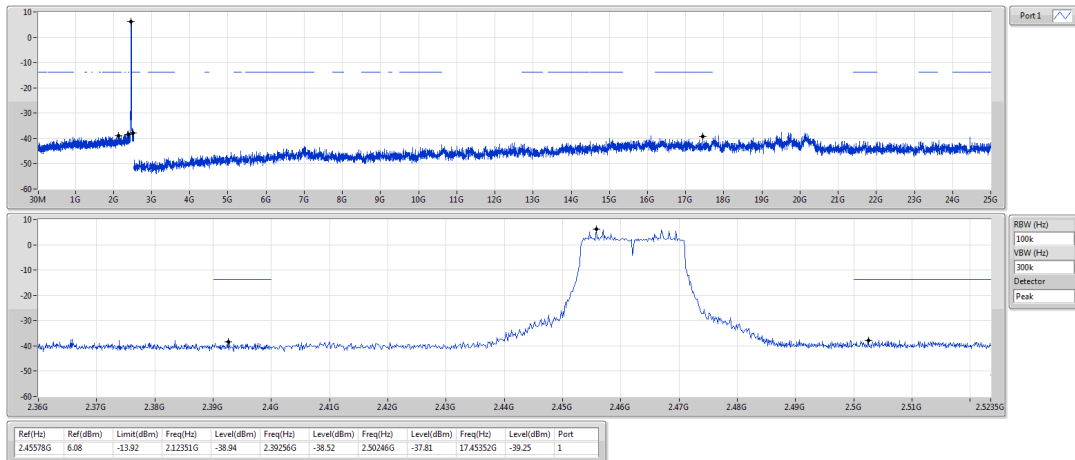
2437MHz



802.11n HT20_Nss1,(MCS0)_1TX

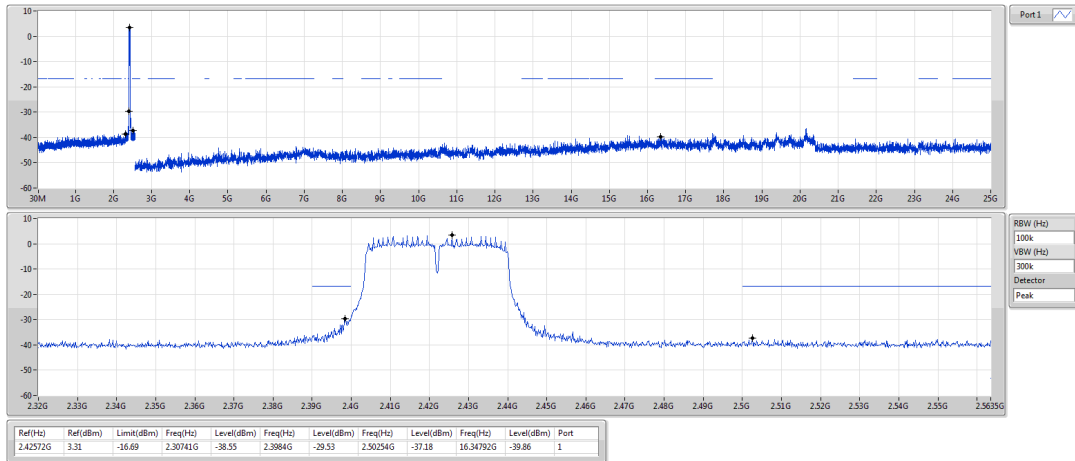
CSE NdB

2462MHz



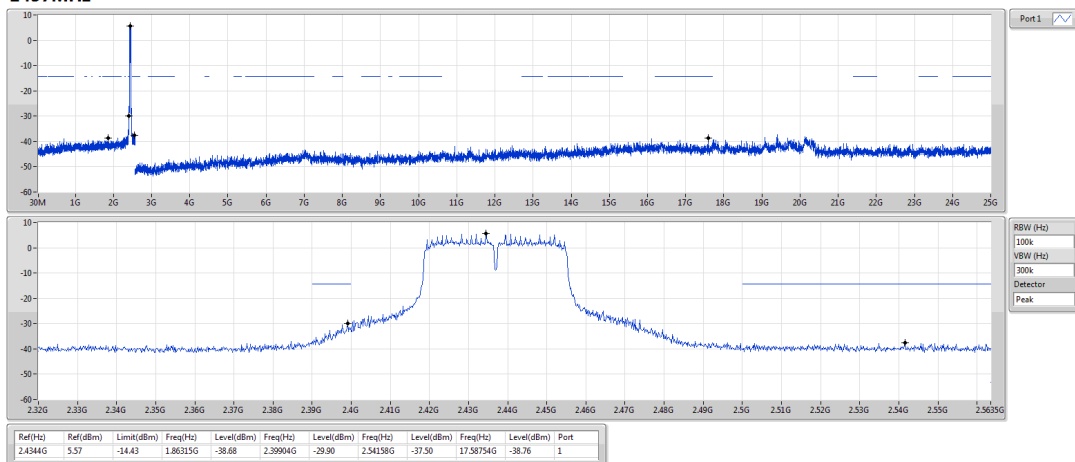
802.11n HT40_Nss1,(MCS0)_1TX
2422MHz

CSE NdB



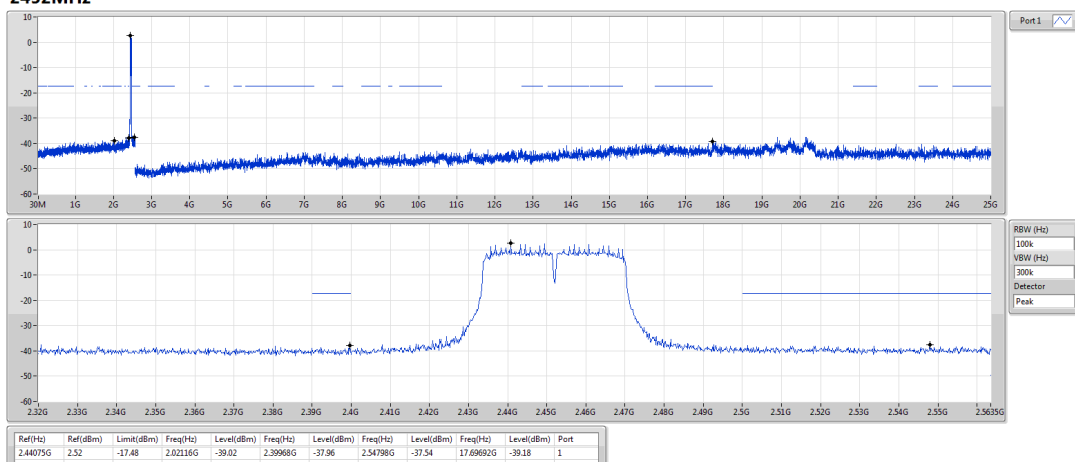
802.11n HT40_Nss1,(MCS0)_1TX
2437MHz

CSE NdB



802.11n HT40_Nss1,(MCS0)_1TX
2452MHz

CSE NdB



4 Test laboratory information

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

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

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

Linkou

Tel: 886-2-2601-1640

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

Kwei Shan

Tel: 886-3-271-8666

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

Kwei Shan Site II

Tel: 886-3-271-8640

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

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

Tel: 886-3-271-8666

Fax: 886-3-318-0155

Email: ICC_Service@icertifi.com.tw

==END==