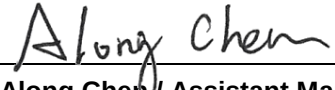


FCC Test Report

FCC ID : SQG-SU60SOMC
Equipment : 802.11ac Professional Wi-Fi + BT5.0 Module
Model No. : SU60-SOMC (453-00003),
SU60-SOMC-2G (453-00004)
(please refer to section 1.1.1 for more details.)
Brand Name : Laird
Applicant : Laird Technologies
Address : W66N220 Commerce Court, Cedarburg,
Wisconsin 53012, USA
Standard : 47 CFR FCC Part 15.247
Received Date : Apr. 11, 2018
Tested Date : Jul. 10 ~ Sep. 18, 2018

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:

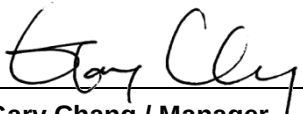

Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FR841101AC	Rev. 01	Initial issue	Nov. 19, 2018

Summary of Test Results

FCC Rules	Test Items	Measured	Result
15.207	Conducted Emissions	[dBuV]: 0.153MHz 52.18 (Margin -13.64dB) – QP	Pass
15.247(d) 15.209	Radiated Emissions	[dBuV/m at 3m]: 1608.00MHz 53.81 (Margin -0.19dB) – AV [dBuV/m at 3m]: 7386.00MHz 53.81 (Margin -0.19dB) - AV	Pass
15.247(b)(3)	Maximum Output Power	Max Power [dBm]: 28.88	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

1 General Description

1.1 Information

1.1.1 Product Details

The following models are provided to this EUT.

Brand Name	Model Name	Product Name	Description
Laird	SU60-SOMC (453-00003)	802.11ac Professional Wi-Fi + BT5.0 Module	2G/1G MCP
	SU60-SOMC-2G (453-00004)		4G/2G MCP
✦ The above models, both options were assessed and SU60-SOMC-2G (453-00004) was found to be worst case and was selected for the final testing.			

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
				2	1-11 Mbps
2400-2483.5	g	2412-2462	1-11 [11]	1	6-54 Mbps
				2	6-54 Mbps
2400-2483.5	n (HT20)	2412-2462	1-11 [11]	1	MCS 0~7
				2	MCS 0~7
				2	MCS 8~15
2400-2483.5	n (HT40)	2422-2452	3-9 [7]	1	MCS 0~7
				2	MCS 0~7
				2	MCS 8~15
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.					
Note 4: The device supports TX antenna diversity function. The conducted power of single chain is same for 1TX and 2TX operating mode. Therefore, Ant1 + Ant 2 configuration is chosen for final testing.					

1.1.3 Antenna Details

Brand	Model	Type	Connector	Gain (dBi)
LSR	001-0009	Dipole	IPEX U.FL	2
Laird	NanoBlade-IP04	PCB Dipole	IPEX U.FL	2
Laird	MAF95310 Mini NanoBlade Flex	PCB Dipole	IPEX U.FL	2.79
LSR	FlexPIFA 001-0016	PIFA	IPEX U.FL	2.5
Ethertronics	WLAN_1000146	Magnetic Dipole	IPEX U.FL	2.5
Laird	MIMO FlexPIFA Antenna	PIFA	IPEX U.FL	2
LSR	001-0009 (with filter)	Dipole	IPEX U.FL	2

1.1.4 Power Supply Type of Equipment under Test (EUT)

Power Supply Type	3.3Vdc from host
-------------------	------------------

1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	AC Adapter	Brand Name: I.T.E POWER SUPPLY Model Name: MU12AY120100-A1 Power Rating: I/P: 100-240Vac, 50/60Hz, 0.3A O/P: 12Vdc, 1A Power Line: 1.48m non-shielded cable w/o core

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	---	---

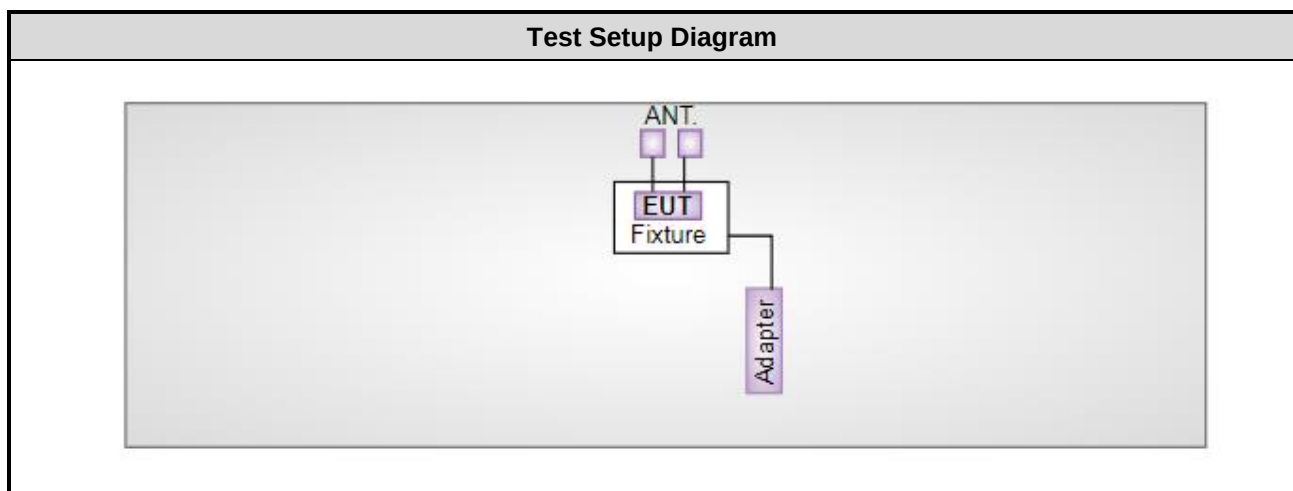
1.1.7 Test Tool and Duty Cycle

Test Tool	Putty, Version: 0.60.0.0		
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

1.1.8 Power Setting

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

1.2 Test Setup Chart



1.3 The Equipment List

Test Item	Conducted Emission				
Test Site	Conduction room 1 / (CO01-WS)				
Tested Date	Sep. 18, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Receiver	R&S	ESR3	101657	Jan. 05, 2018	Jan. 04, 2019
LISN	SCHWARZBECK	Schwarzbeck 8127	8127-667	Nov. 13, 2017	Nov. 12, 2018
RF Cable-CON	EMC	EMCCFD300-BM-BM-6000	50821	Dec. 18, 2017	Dec. 17, 2018
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	Jul. 13, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2017	Dec. 03, 2018
Receiver	R&S	ESR3	101658	Nov. 20, 2017	Nov. 19, 2018
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 25, 2017	Jul. 24, 2018
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 20, 2017	Dec. 19, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 23, 2017	Nov. 22, 2018
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 13, 2017	Nov. 12, 2018
Loop Antenna Cable	KOAX KABEL	101354-BW	101354-BW	Dec. 07, 2017	Dec. 06, 2018
Preamplifier	EMC	EMC02325	980225	Jul. 28, 2017	Jul. 27, 2018
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2017	Oct. 05, 2018
Preamplifier	EMC	EMC184045B	980192	Aug. 22, 2017	Aug. 21, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	May 09, 2018	May 08, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 07, 2017	Dec. 06, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 07, 2017	Dec. 06, 2018
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	16052	Dec. 07, 2017	Dec. 06, 2018
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 07, 2017	Dec. 06, 2018
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 07, 2017	Dec. 06, 2018
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 chamber1 / (03CH01-WS)				
Tested Date	Sep. 17, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101498	Dec. 04, 2017	Dec. 03, 2018
Receiver	R&S	ESR3	101658	Nov. 20, 2017	Nov. 19, 2018
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Jul. 18, 2018	Jul. 17, 2019
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 20, 2017	Dec. 19, 2018
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 23, 2017	Nov. 22, 2018
Preamplifier	EMC	EMC02325	980225	Jul. 20, 2018	Jul. 19, 2019
Preamplifier	Agilent	83017A	MY53270014	Aug. 09, 2018	Aug. 08, 2019
Preamplifier	EMC	EMC184045B	980192	Aug. 09, 2018	Aug. 08, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16140/4	May 09, 2018	May 08, 2019
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 07, 2017	Dec. 06, 2018
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 07, 2017	Dec. 06, 2018
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	16052	Dec. 07, 2017	Dec. 06, 2018
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 07, 2017	Dec. 06, 2018
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 07, 2017	Dec. 06, 2018
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	Jul. 10 ~ Jul. 12, 2018				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Apr. 16, 2018	Apr. 15, 2019
Power Meter	Anritsu	ML2495A	1241002	Oct. 16, 2017	Oct. 15, 2018
Power Sensor	Anritsu	MA2411B	1207366	Oct. 16, 2017	Oct. 15, 2018
AC POWER SOURCE	APC	AFC-500W	F312060012	Dec. 01, 2017	Nov. 30, 2018
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.4 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 v05

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

1.5 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	± 34.134 Hz
Conducted power	± 0.808 dB
Power density	± 0.463 dB
Conducted emission	± 2.670 dB
AC conducted emission	± 2.90 dB
Radiated emission ≤ 1 GHz	± 3.66 dB
Radiated emission > 1 GHz	± 5.63 dB

2 Test Configuration

2.1 Testing Condition

Test Item	Test Site	Ambient Condition	Tested By
AC Conduction	CO01-WS	24°C / 57%	Alex Tsai
Radiated Emissions	03CH01-WS	24-26°C / 60-62%	Akun Chung Roger Lu
RF Conducted	TH01-WS	23°C / 63%	Brad Wu

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- IC site registration No.: 10807A-1

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	2
Radiated Emissions ≤1GHz	11g	2437	6 Mbps	1, 2, 3, 4
Radiated Emissions >1GHz	11b 11g HT20 HT40	2412 / 2437 / 2462 2412 / 2437 / 2462 2412 / 2437 / 2462 2422 / 2437 / 2452	1 Mbps 6 Mbps MCS 0 MCS 0	1, 2, 3, 4
Maximum Output Power 6dB bandwidth Power spectral density	11b 11g HT20 HT40	2412 / 2437 / 2462 2412 / 2437 / 2462 2412 / 2437 / 2462 2422 / 2437 / 2452	1 Mbps 6 Mbps MCS 0 MCS 0	2

NOTE:

1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The **X-plane** results were found as the worst case and were shown in this report.
2. 4 types antenna are used for this device, highest gain antenna of each type is selected to perform test as below test configuration.
 Configuration 1 : Dipole antenna with 2 dBi gain
 Configuration 2 : PCB Dipole antenna with 2.79dBi gain
 Configuration 3 : PIFA antenna with 2.5dBi gain
 Configuration 4 : Magnetic Dipole with 2.5dBi gain

3 Transmitter Test Results

3.1 Conducted Emissions

3.1.1 Limit of Conducted Emissions

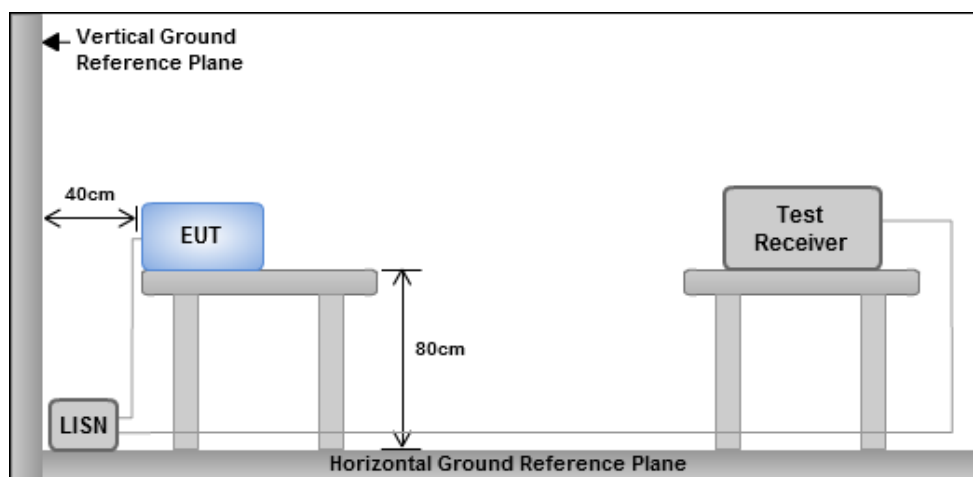
Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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.

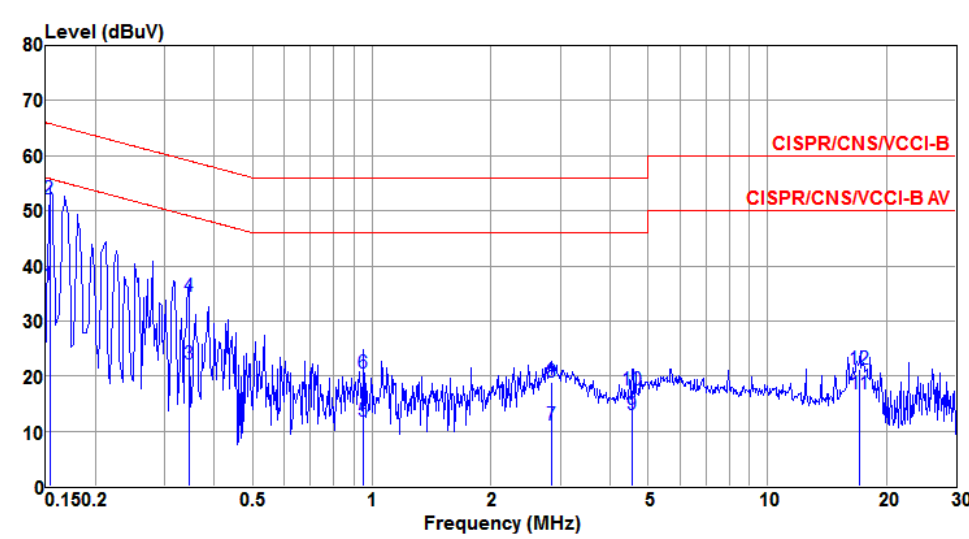
3.1.3 Test Setup



- 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

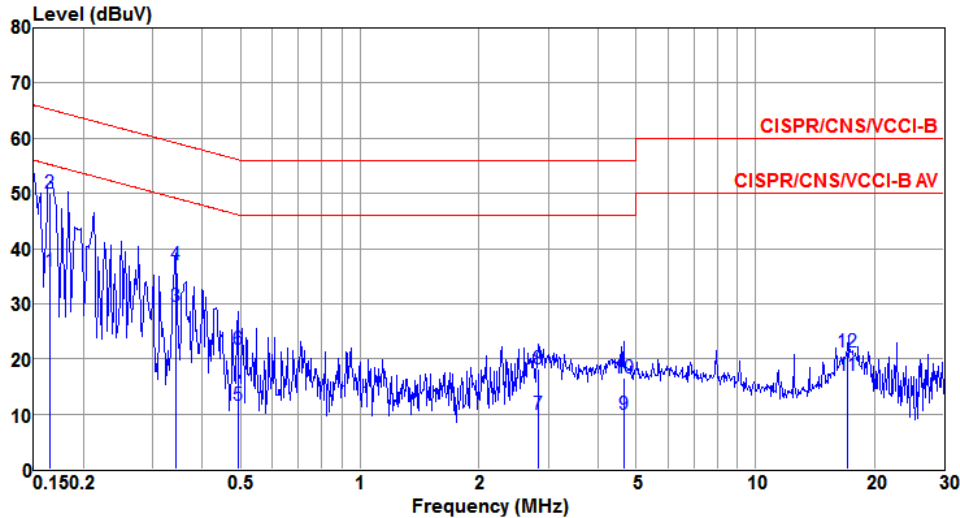
Modulation	11g	Test Freq. (MHz)	2437
Power Phase	Line		



	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.153	36.59	55.82	-19.23	36.31	0.27	0.01	Average
2	0.153	52.18	65.82	-13.64	51.90	0.27	0.01	QP
3	0.345	22.13	49.09	-26.96	21.78	0.33	0.02	Average
4	0.345	34.45	59.09	-24.64	34.10	0.33	0.02	QP
5	0.948	11.77	46.00	-34.23	11.35	0.39	0.03	Average
6	0.948	20.46	56.00	-35.54	20.04	0.39	0.03	QP
7	2.854	11.11	46.00	-34.89	10.50	0.45	0.16	Average
8	2.854	18.91	56.00	-37.09	18.30	0.45	0.16	QP
9	4.557	13.01	46.00	-32.99	12.30	0.48	0.23	Average
10	4.557	17.51	56.00	-38.49	16.80	0.48	0.23	QP
11	17.162	16.68	50.00	-33.32	15.58	0.77	0.33	Average
12	17.162	21.22	60.00	-38.78	20.12	0.77	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).

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



The graph displays the measured level in dBuV across a frequency range from 0.150.2 MHz to 30 MHz. Two red lines represent the CISPR/CNS/VCCI-B and CISPR/CNS/VCCI-B AV limits. The blue line shows the measured signal, which is generally below the limits, with some peaks labeled 1 through 12.

	Freq MHz	Level dBuV	Limit Line dBuV	Over Limit dB	Read Level dBuV	LISN factor dB	cable loss dB	Remark
1	0.165	35.84	55.21	-19.37	35.68	0.14	0.02	Average
2	0.165	50.03	65.21	-15.18	49.87	0.14	0.02	QP
3	0.343	29.52	49.13	-19.61	29.32	0.18	0.02	Average
4	0.343	37.05	59.13	-22.08	36.85	0.18	0.02	QP
5	0.491	11.56	46.14	-34.58	11.33	0.21	0.02	Average
6	0.491	21.70	56.14	-34.44	21.47	0.21	0.02	QP
7	2.824	10.03	46.00	-35.97	9.54	0.33	0.16	Average
8	2.824	18.24	56.00	-37.76	17.75	0.33	0.16	QP
9	4.647	9.86	46.00	-36.14	9.25	0.37	0.24	Average
10	4.647	16.41	56.00	-39.59	15.80	0.37	0.24	QP
11	17.158	16.91	50.00	-33.09	15.93	0.65	0.33	Average
12	17.158	21.24	60.00	-38.76	20.26	0.65	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

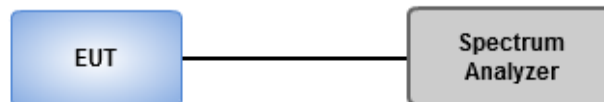
6dB Bandwidth

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)_2T X	10.072M	13.531M	13M5G1D	10M	13.459M
802.11g_Nss1,(6Mbps)_2T X	16.594M	16.715M	16M7D1D	16.522M	16.643M
802.11n HT20_Nss1,(MCS0)_2TX	17.754M	17.656M	17M7D1D	17.681M	17.583M
802.11n HT40_Nss1,(MCS0)_2TX	36.522M	36.179M	36M2D1D	36.377M	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

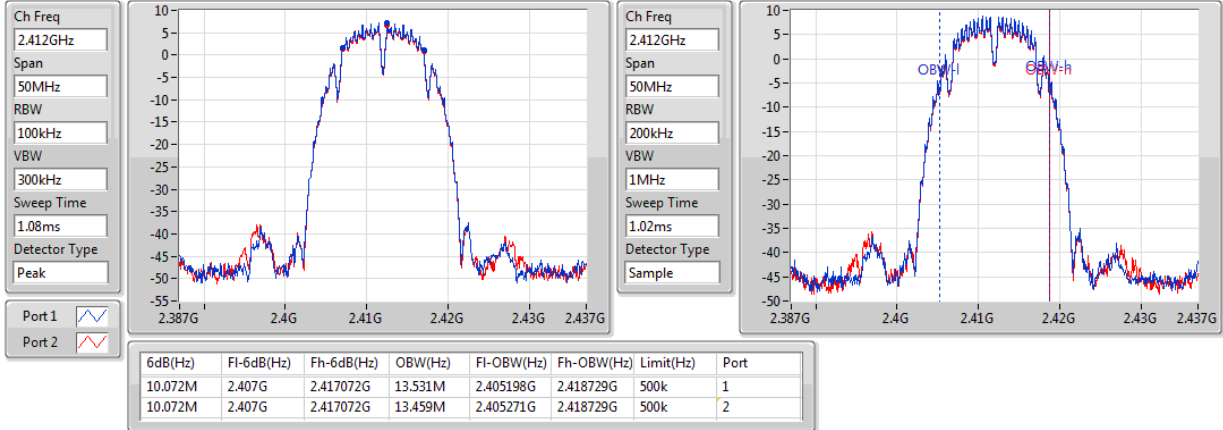
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	10.072M	13.531M	10.072M	13.459M
2437MHz	Pass	500k	10M	13.459M	10M	13.459M
2462MHz	Pass	500k	10.072M	13.459M	10.072M	13.459M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.522M	16.643M	16.522M	16.643M
2437MHz	Pass	500k	16.522M	16.643M	16.594M	16.715M
2462MHz	Pass	500k	16.522M	16.643M	16.522M	16.643M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	17.681M	17.583M	17.754M	17.656M
2437MHz	Pass	500k	17.681M	17.656M	17.754M	17.656M
2462MHz	Pass	500k	17.681M	17.656M	17.754M	17.656M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	36.377M	36.179M	36.522M	36.179M
2437MHz	Pass	500k	36.377M	36.179M	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

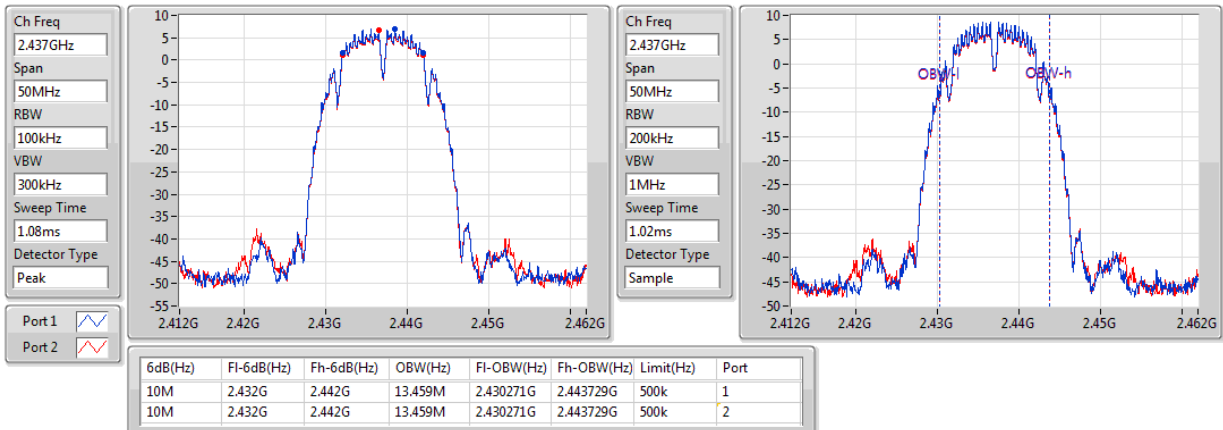
2412MHz



802.11b_Nss1,(1Mbps)_2TX

EBW

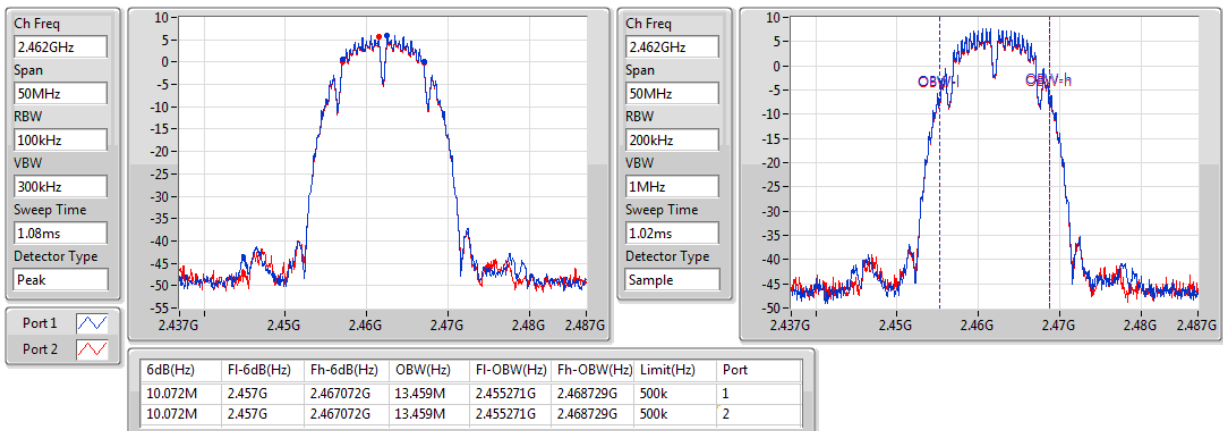
2437MHz



802.11b_Nss1,(1Mbps)_2TX

EBW

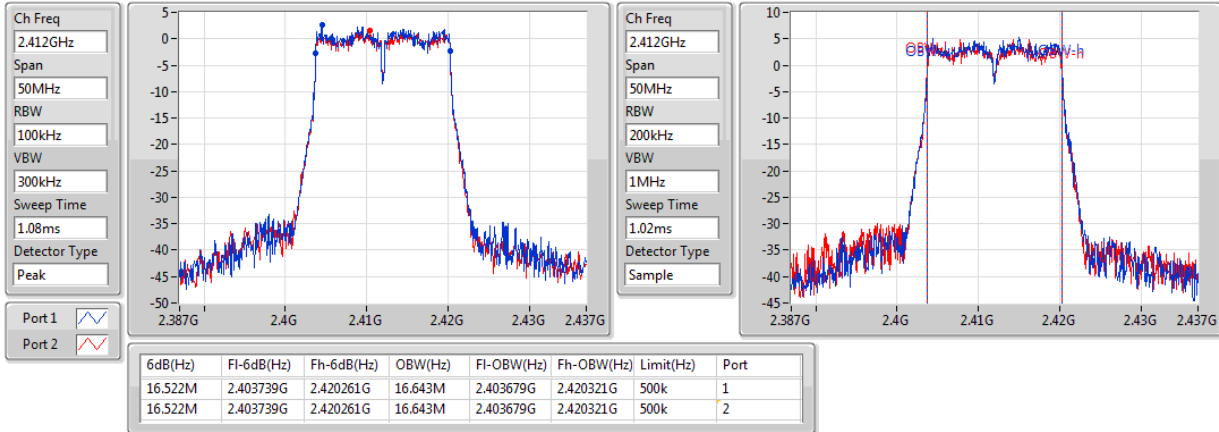
2462MHz



802.11g_Nss1,(6Mbps)_2TX

EBW

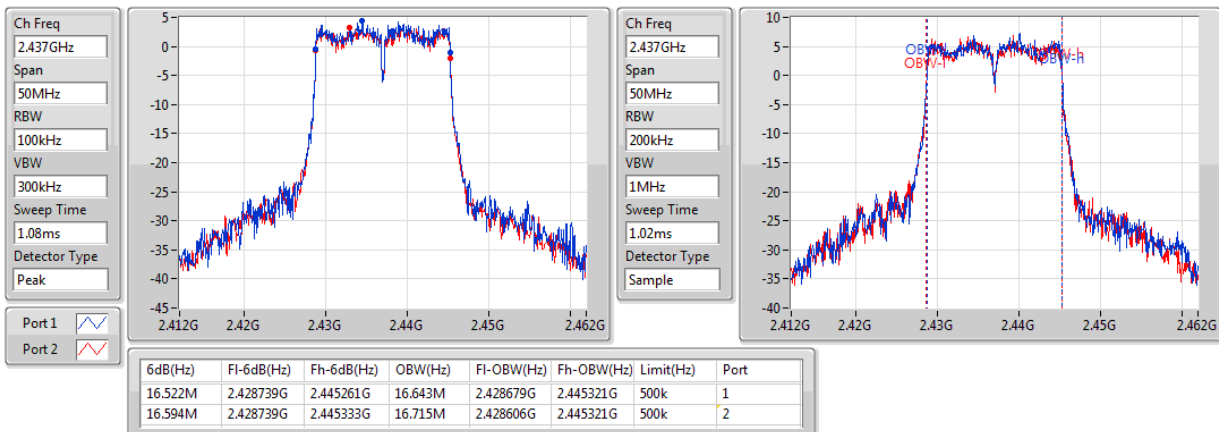
2412MHz



802.11g_Nss1,(6Mbps)_2TX

EBW

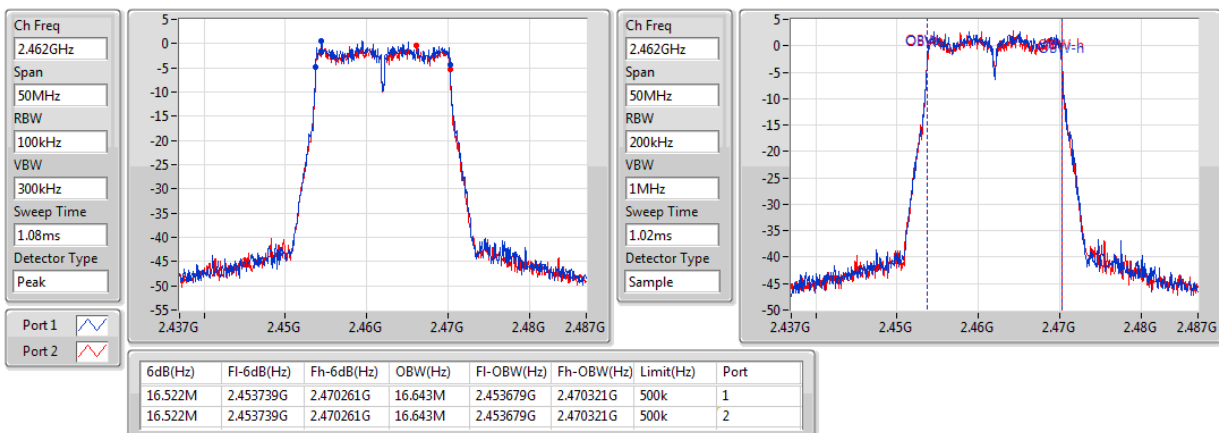
2437MHz



802.11g_Nss1,(6Mbps)_2TX

EBW

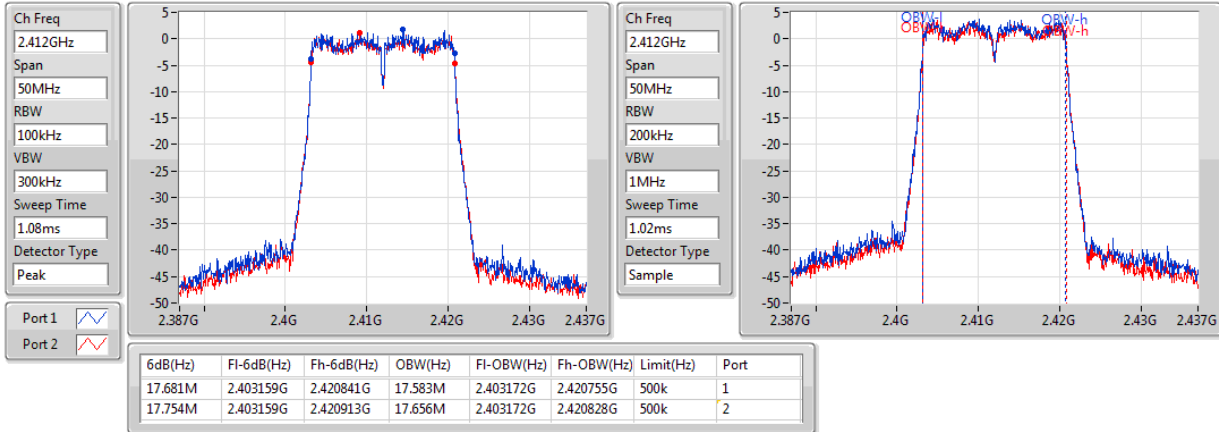
2462MHz



802.11n HT20_Nss1,(MCS0)_2TX

EBW

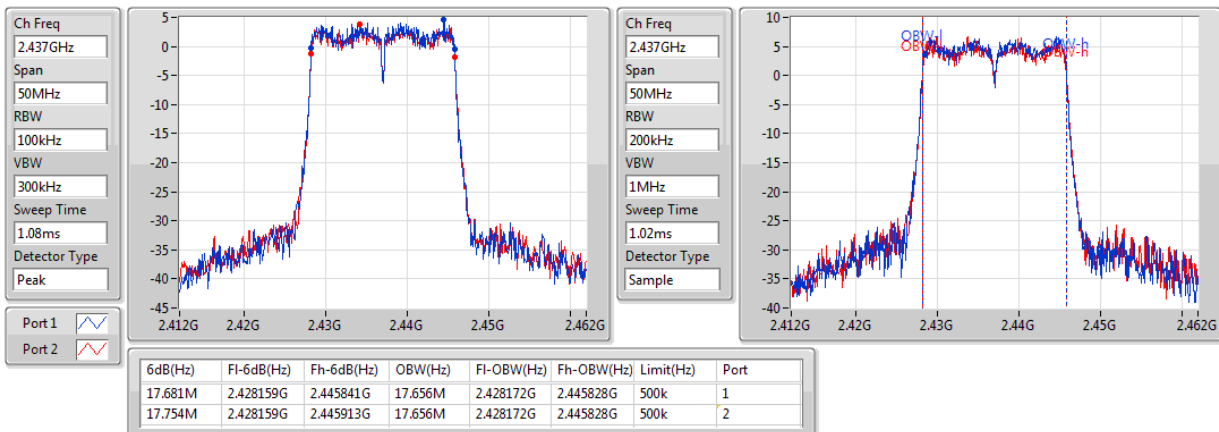
2412MHz



802.11n HT20_Nss1,(MCS0)_2TX

EBW

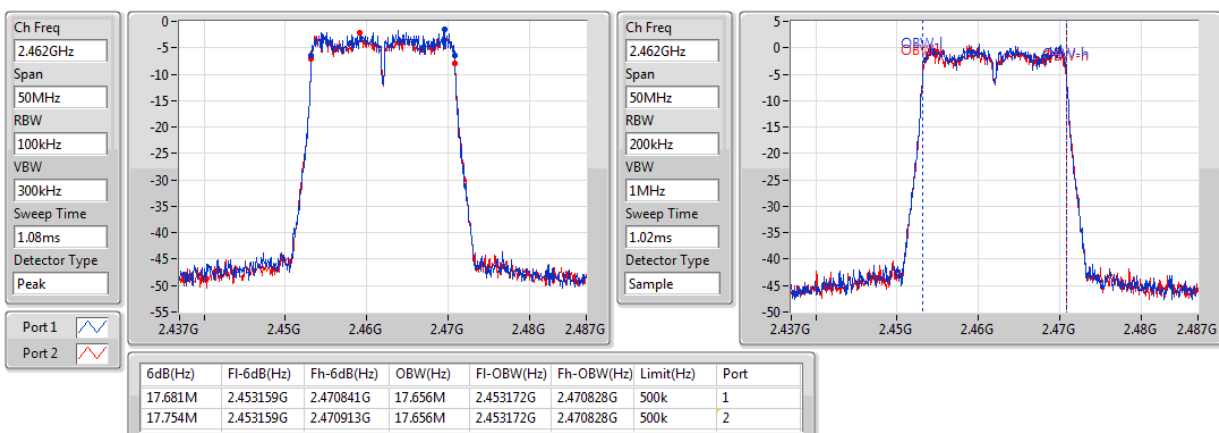
2437MHz



802.11n HT20_Nss1,(MCS0)_2TX

EBW

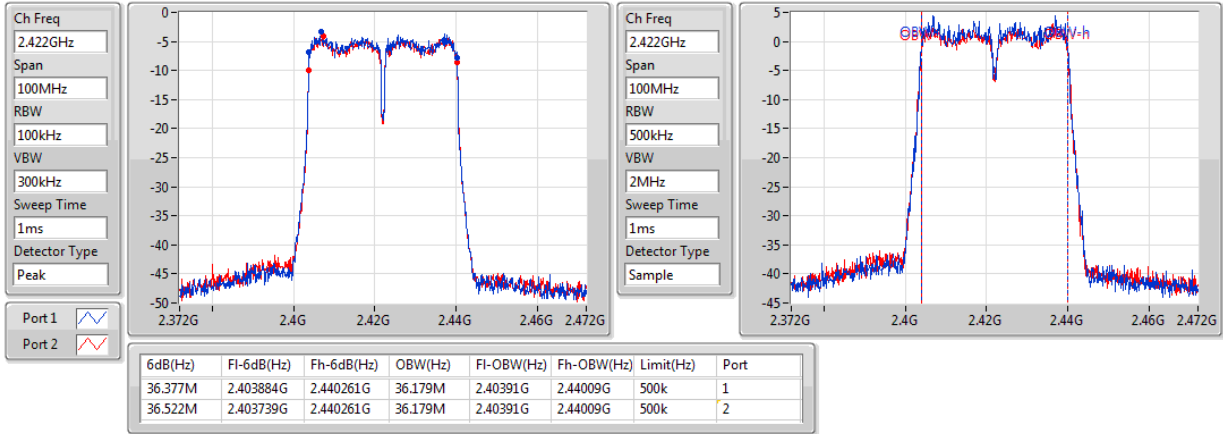
2462MHz



802.11n HT40_Nss1,(MCS0)_2TX

EBW

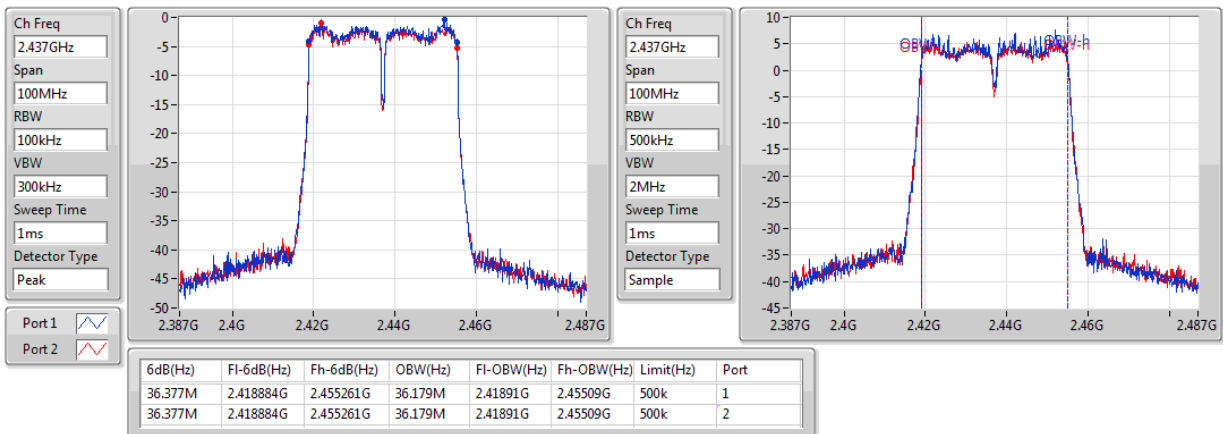
2422MHz



802.11n HT40_Nss1,(MCS0)_2TX

EBW

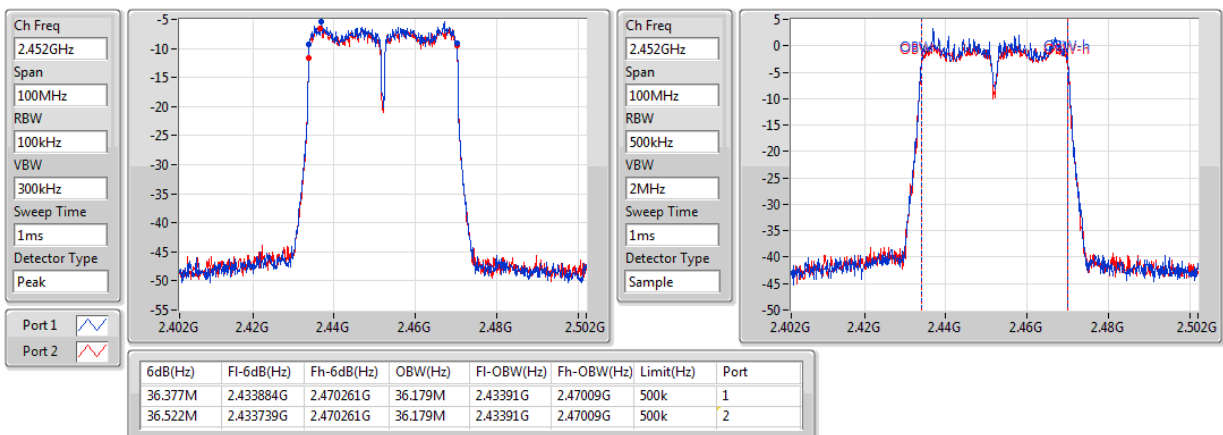
2437MHz



802.11n HT40_Nss1,(MCS0)_2TX

EBW

2452MHz



3.3 RF Output Power

3.3.1 Limit of RF Output Power

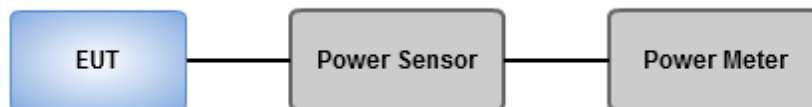
Conducted power shall not exceed 1Watt.

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

Peak Power / Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	23.94	0.24774
802.11g_Nss1,(6Mbps)_2TX	28.88	0.77268
802.11n HT20_Nss1,(MCS0)_2TX	28.87	0.77090
802.11n HT40_Nss1,(MCS0)_2TX	28.15	0.65313

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	2.79	21.18	20.67	23.94	30.00	26.73	36.00
2437MHz	Pass	2.79	21.1	20.58	23.86	30.00	26.65	36.00
2462MHz	Pass	2.79	20.12	19.53	22.85	30.00	25.64	36.00
802.11g_Nss1, (6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	2.79	26.01	25.58	28.81	30.00	31.60	36.00
2437MHz	Pass	2.79	26.1	25.63	28.88	30.00	31.67	36.00
2462MHz	Pass	2.79	24.72	24.51	27.63	30.00	30.42	36.00
802.11n HT20_Nss1, (MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	2.79	25.27	25.01	28.15	30.00	30.94	36.00
2437MHz	Pass	2.79	26.05	25.67	28.87	30.00	31.66	36.00
2462MHz	Pass	2.79	22.05	21.76	24.92	30.00	27.71	36.00
802.11n HT40_Nss1, (MCS0)_2TX	-	-	-	-	-	-	-	-
2422MHz	Pass	2.79	22.61	22.01	25.33	30.00	28.12	36.00
2437MHz	Pass	2.79	25.26	25.02	28.15	30.00	30.94	36.00
2452MHz	Pass	2.79	20.69	20.32	23.52	30.00	26.31	36.00

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

Average Power / Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	21.39	0.13772
802.11g_Nss1,(6Mbps)_2TX	21.24	0.13305
802.11n HT20_Nss1,(MCS0)_2TX	21.45	0.13964
802.11n HT40_Nss1,(MCS0)_2TX	19.42	0.08750

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	2.79	18.66	18.07	21.39	-	24.18	-
2437MHz	Pass	2.79	18.56	18.05	21.32	-	24.11	-
2462MHz	Pass	2.79	17.54	17.01	20.29	-	23.08	-
802.11g_Nss1, (6Mbps)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	2.79	16.64	16.02	19.35	-	22.14	-
2437MHz	Pass	2.79	18.49	17.95	21.24	-	24.03	-
2462MHz	Pass	2.79	14.62	13.99	17.33	-	20.12	-
802.11n HT20_Nss1, (MCS0)_2TX	-	-	-	-	-	-	-	-
2412MHz	Pass	2.79	16.01	15.23	18.65	-	21.44	-
2437MHz	Pass	2.79	18.72	18.14	21.45	-	24.24	-
2462MHz	Pass	2.79	12.92	12.21	15.59	-	18.38	-
802.11n HT40_Nss1, (MCS0)_2TX	-	-	-	-	-	-	-	-
2422MHz	Pass	2.79	13.82	13.32	16.59	-	19.38	-
2437MHz	Pass	2.79	16.64	16.17	19.42	-	22.21	-
2452MHz	Pass	2.79	11.76	11.25	14.52	-	17.31	-

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

Note : Conducted average output power is for reference only

3.4 Power Spectral Density

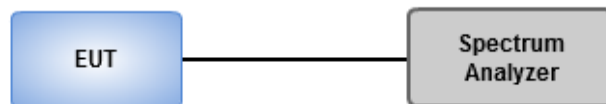
3.4.1 Limit of Power Spectral Density

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)_2TX	-8.37
802.11g_Nss1,(6Mbps)_2TX	-6.43
802.11n HT20_Nss1,(MCS0)_2TX	-6.99
802.11n HT40_Nss1,(MCS0)_2TX	-11.34

RBW=3kHz.

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	5.80	-11.19	-11.55	-8.37	8.00
2437MHz	Pass	5.80	-11.29	-11.64	-8.46	8.00
2462MHz	Pass	5.80	-12.32	-12.65	-9.48	8.00
802.11g_Nss1 ,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.80	-10.98	-12.35	-8.85	8.00
2437MHz	Pass	5.80	-9.09	-9.83	-6.43	8.00
2462MHz	Pass	5.80	-13.07	-14.20	-10.79	8.00
802.11n HT20_Nss1 ,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.80	-11.68	-12.90	-9.24	8.00
2437MHz	Pass	5.80	-9.57	-9.78	-6.99	8.00
2462MHz	Pass	5.80	-14.98	-15.73	-12.56	8.00
802.11n HT40_Nss1 ,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.80	-15.50	-15.73	-12.60	8.00
2437MHz	Pass	5.80	-13.89	-13.97	-11.34	8.00
2452MHz	Pass	5.80	-18.86	-19.17	-16.13	8.00

DG = Directional Gain; RBW=3kHz;

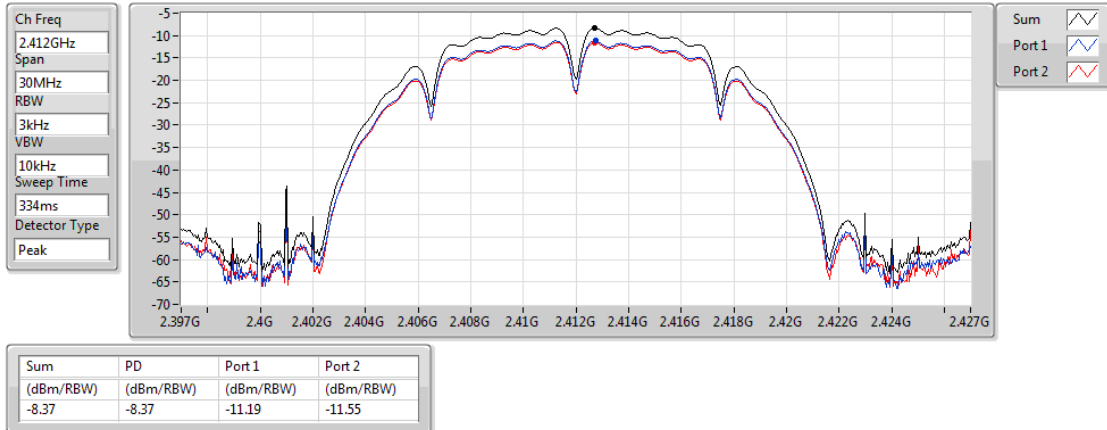
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

Directional gain = 2.79 dBi + 10*log(2/1) = 5.8 dBi

802.11b_Nss1,(1Mbps)_2TX

PSD

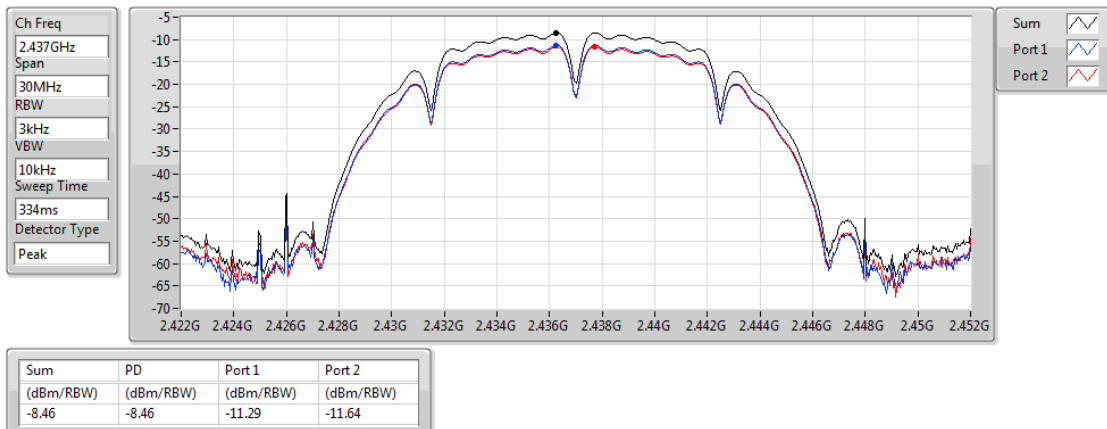
2412MHz



802.11b_Nss1,(1Mbps)_2TX

PSD

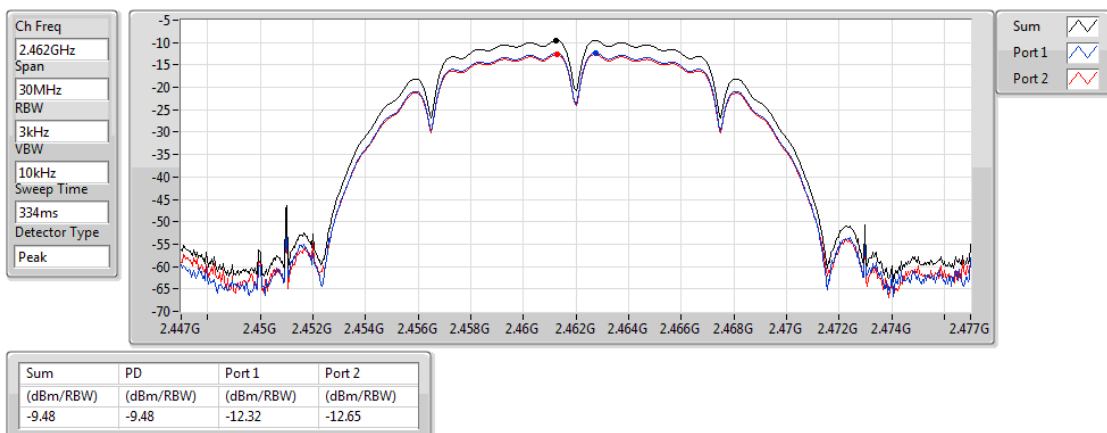
2437MHz



802.11b_Nss1,(1Mbps)_2TX

PSD

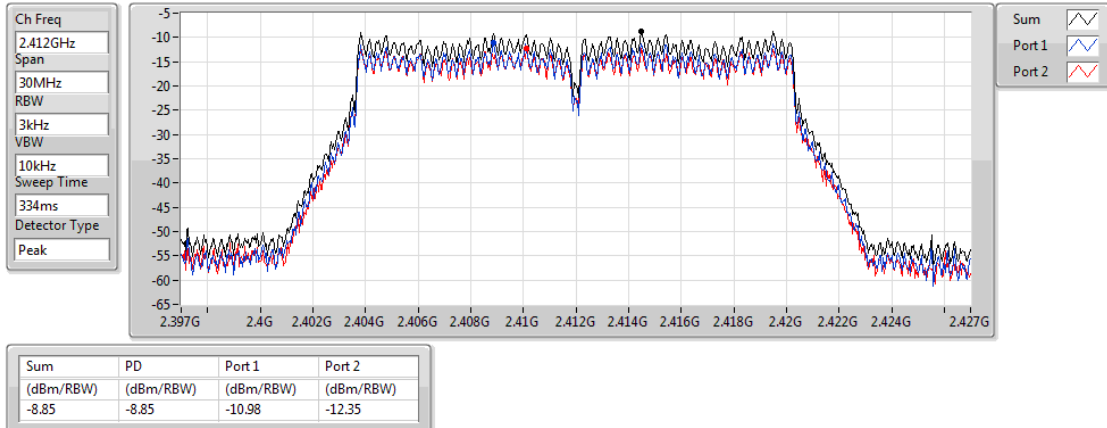
2462MHz



802.11g_Nss1,(6Mbps)_2TX

PSD

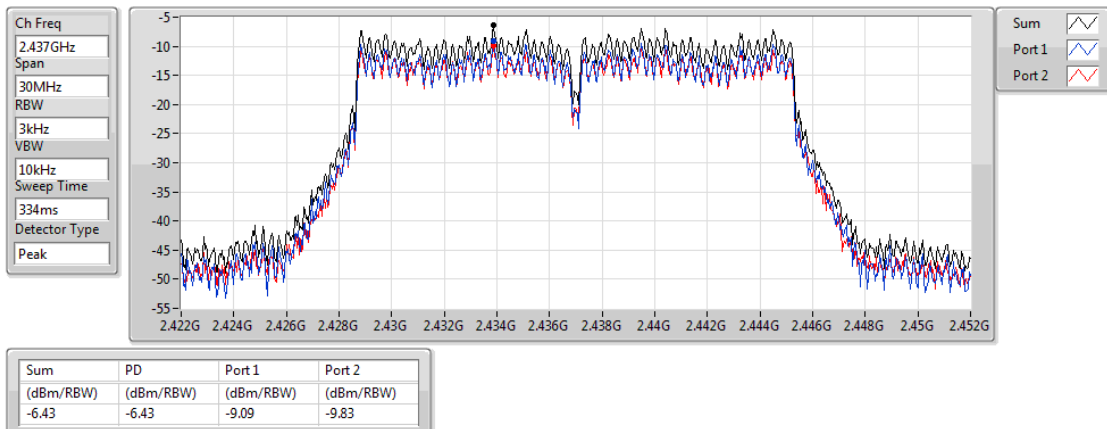
2412MHz



802.11g_Nss1,(6Mbps)_2TX

PSD

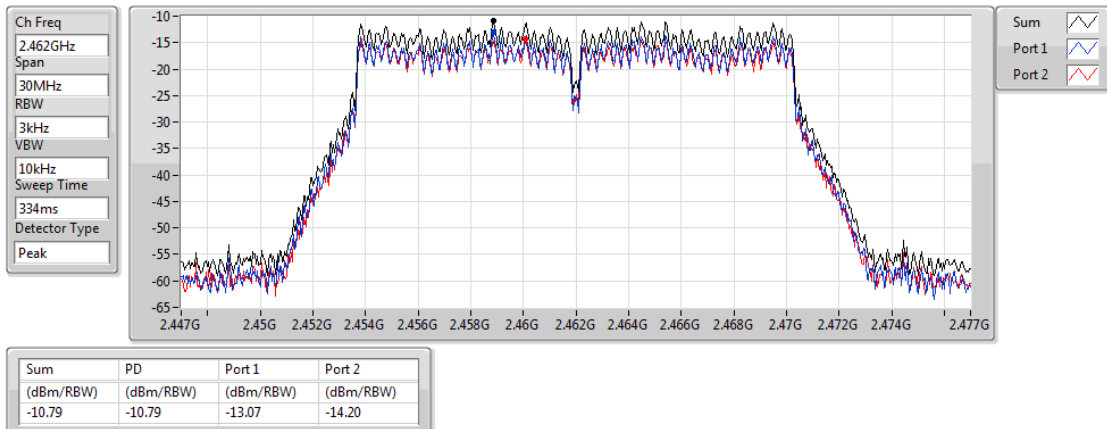
2437MHz



802.11g_Nss1,(6Mbps)_2TX

PSD

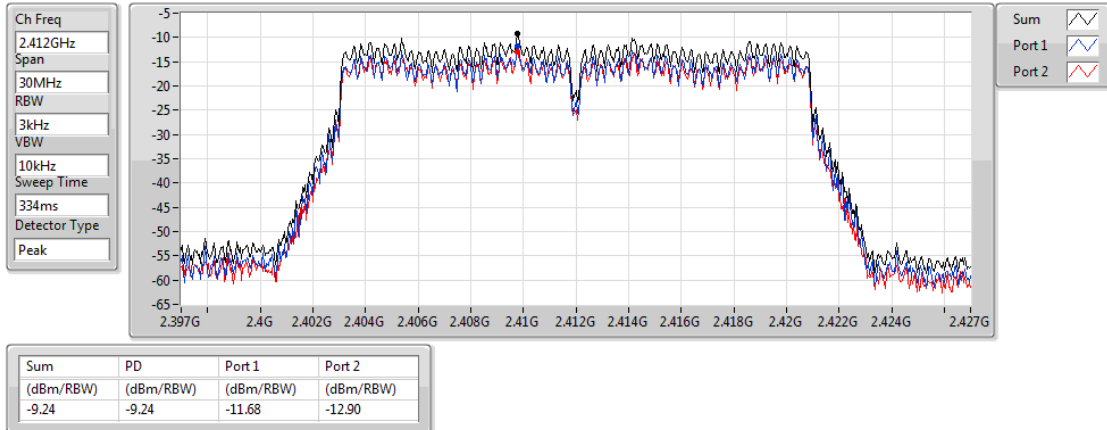
2462MHz



802.11n HT20_Nss1,(MCS0)_2TX

PSD

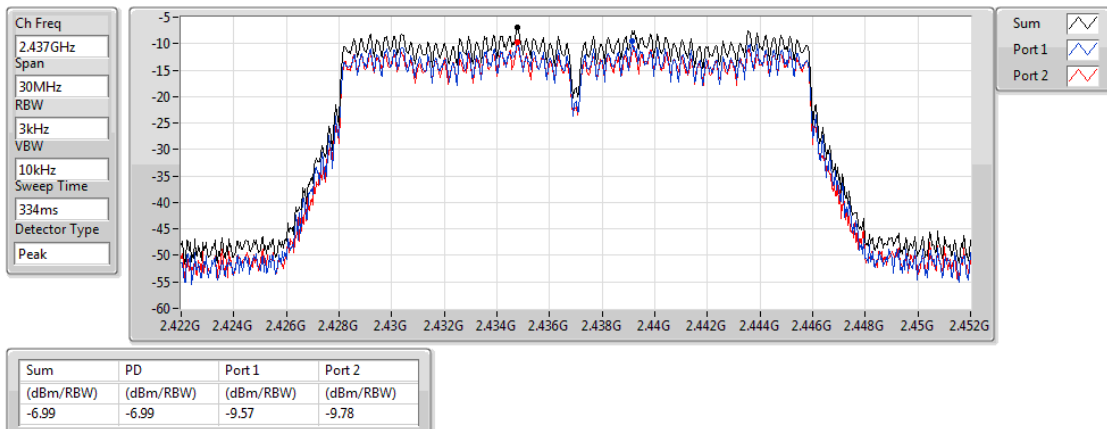
2412MHz



802.11n HT20_Nss1,(MCS0)_2TX

PSD

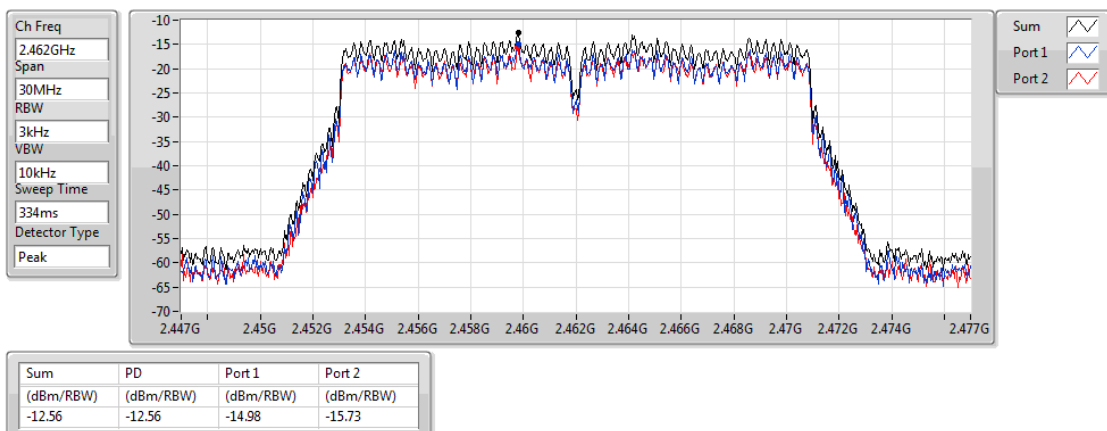
2437MHz



802.11n HT20_Nss1,(MCS0)_2TX

PSD

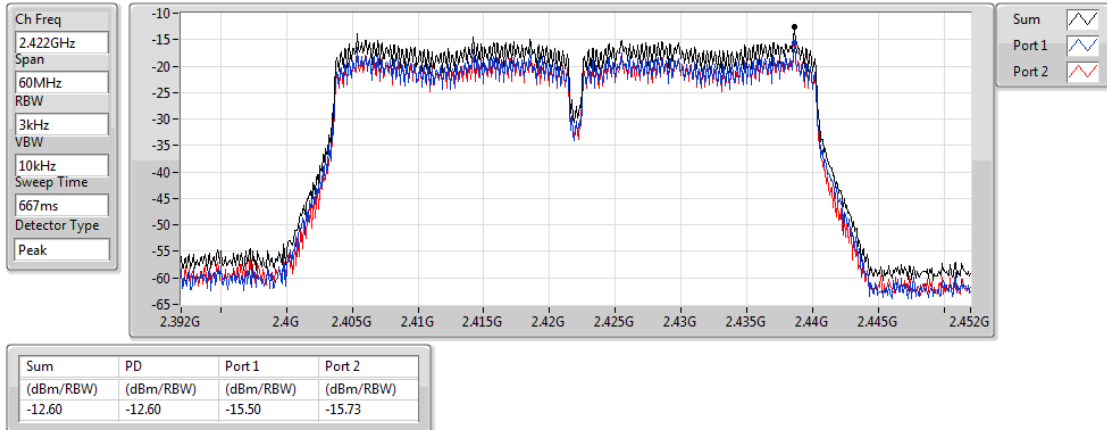
2462MHz



802.11n HT40_Nss1,(MCS0)_2TX

PSD

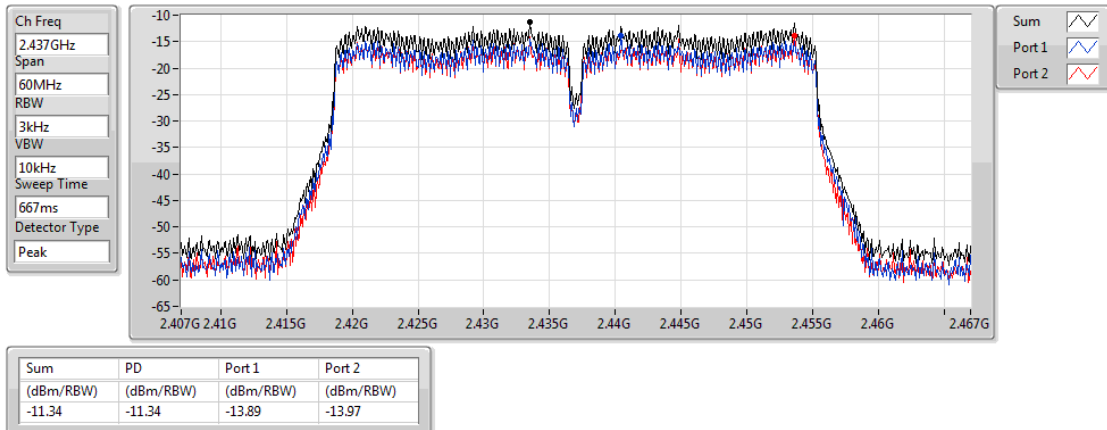
2422MHz



802.11n HT40_Nss1,(MCS0)_2TX

PSD

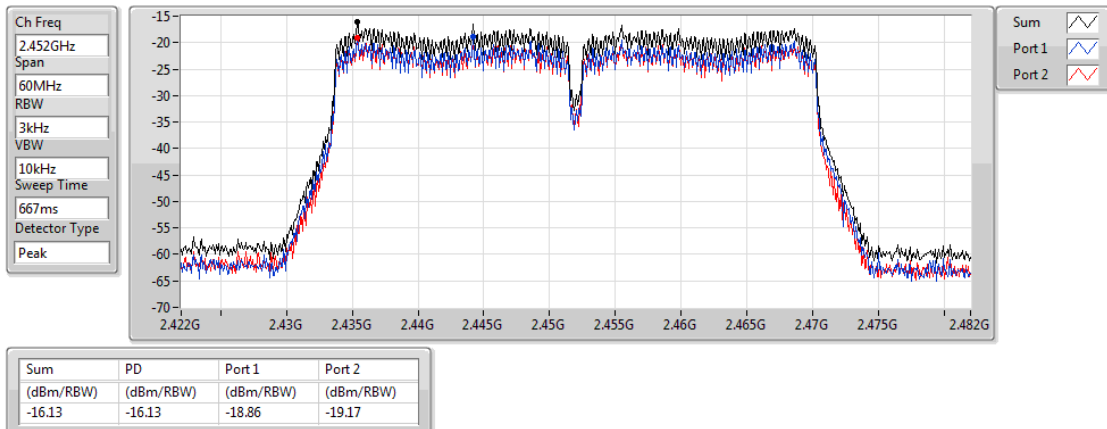
2437MHz



802.11n HT40_Nss1,(MCS0)_2TX

PSD

2452MHz



3.5 Unwanted Emissions into Restricted Frequency Bands

3.5.1 Limit of Unwanted Emissions into Restricted Frequency Bands

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

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

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

3.5.2 Test Procedures

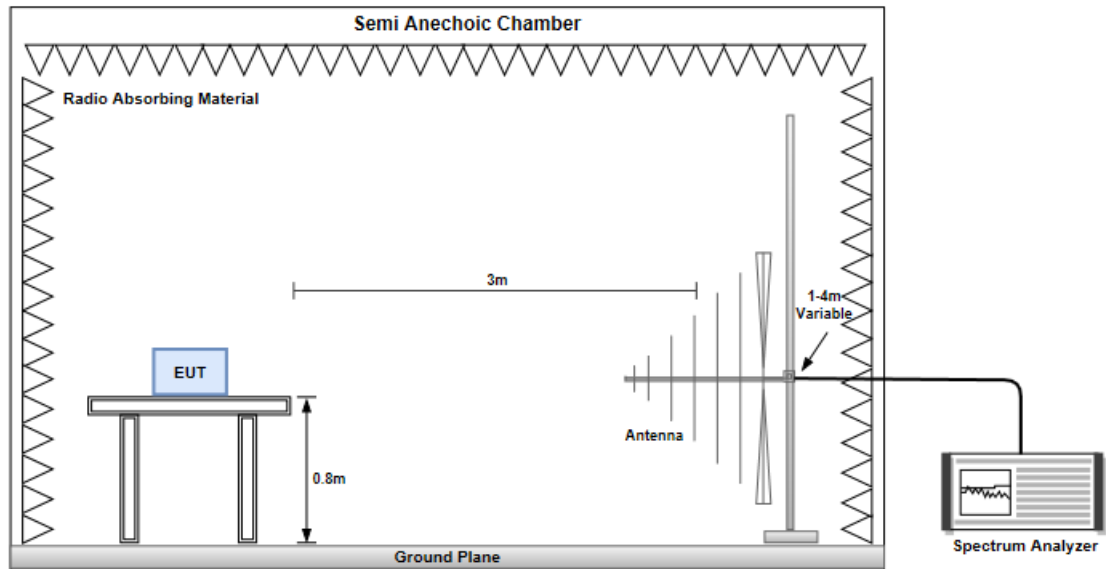
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission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

Note:

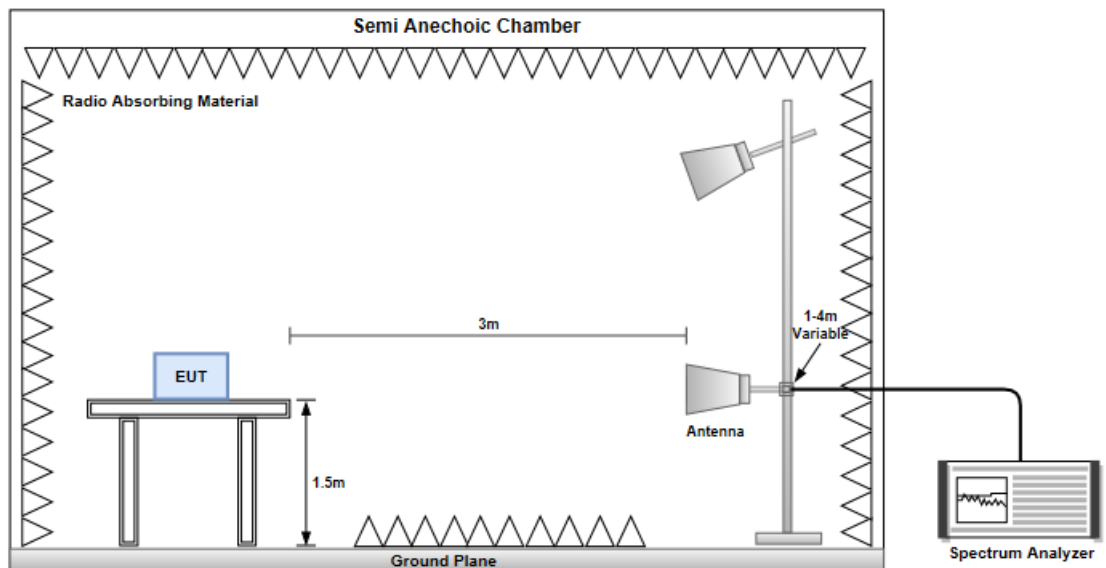
1. 120kHz measurement bandwidth of test receiver and Quasi-peak detector is for radiated emission below 1GHz.
2. RBW=1MHz, VBW=3MHz and Peak detector is for peak measured value of radiated emission above 1GHz.
3. RBW=1MHz, VBW=1/T and Peak detector is for average measured value of radiated emission above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

3.5.3 Test Setup

Radiated Emissions below 1 GHz



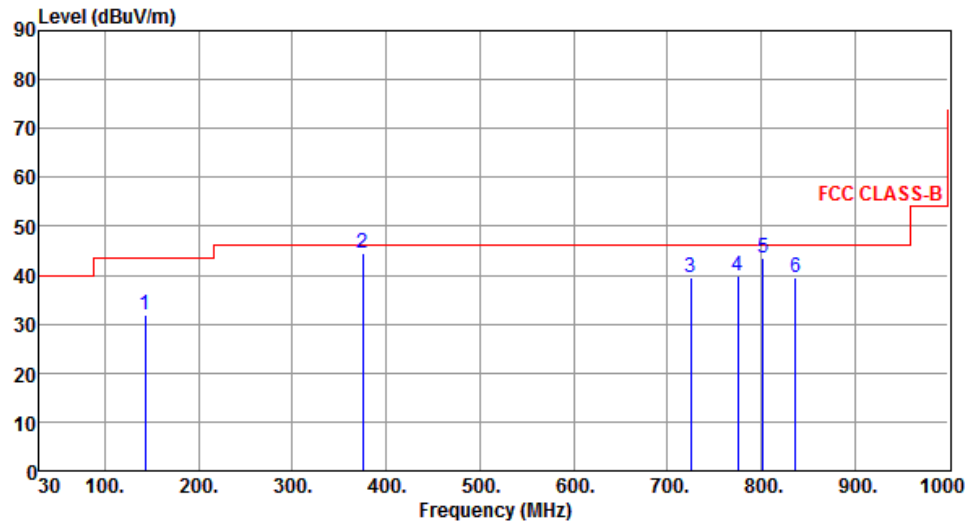
Radiated Emissions above 1 GHz



Test Configuration 1

3.5.4 Transmitter Radiated Unwanted Emissions (Below 1GHz)

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

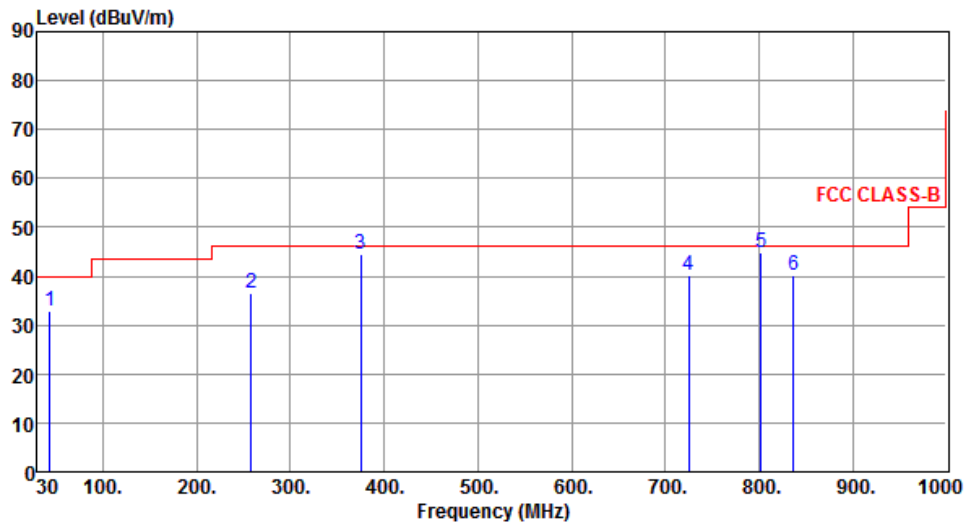


The graph displays the radiated unwanted emissions for a transmitter. The y-axis represents the Level in dBUV/m, ranging from 0 to 90. The x-axis represents the Frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBUV/m from 30 to 100 MHz, 45 dBUV/m from 100 to 1000 MHz. Six test results are plotted as blue vertical lines, labeled 1 through 6. The test results are summarized 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	142.52	31.99	43.50	-11.51	40.44	-8.45	Peak	---	---
2	375.00	44.67	46.00	-1.33	50.60	-5.93	QP	100	50
3	725.49	39.39	46.00	-6.61	38.12	1.27	Peak	---	---
4	774.96	39.91	46.00	-6.09	37.86	2.05	Peak	---	---
5	802.49	43.43	46.00	-2.57	41.09	2.34	QP	100	49
6	837.04	39.47	46.00	-6.53	36.62	2.85	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		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	43.58	32.73	40.00	-7.27	41.00	-8.27	Peak	---	---
2	257.95	36.40	46.00	-9.60	45.51	-9.11	Peak	---	---
3	374.99	44.58	46.00	-1.42	50.52	-5.94	QP	129	135
4	725.49	40.14	46.00	-5.86	38.87	1.27	Peak	---	---
5	802.50	44.89	46.00	-1.11	42.55	2.34	QP	114	260
6	837.04	40.09	46.00	-5.91	37.24	2.85	Peak	---	---

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

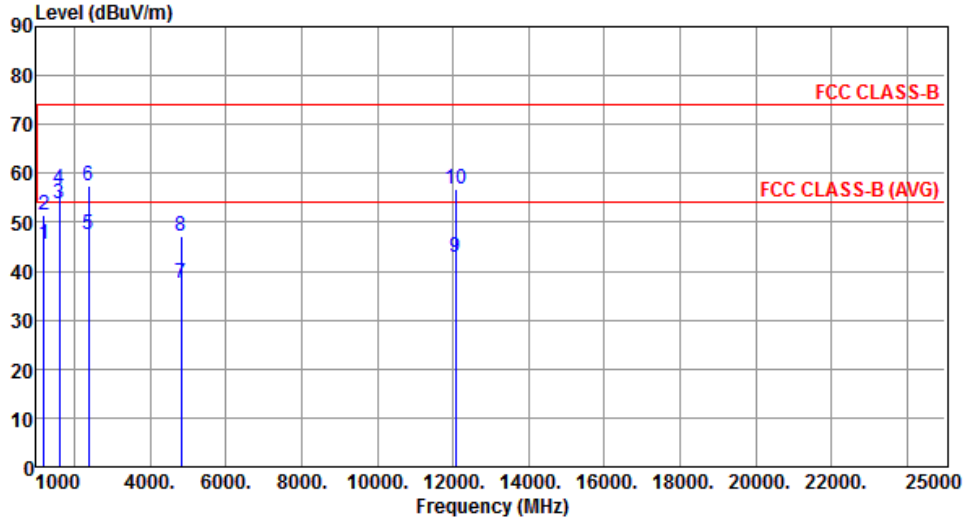
*Factor includes antenna factor , cable loss and amplifier gain

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	1206.00	45.63	54.00	-8.37	54.50	-8.87	Average	124	234
2	1206.00	51.58	74.00	-22.42	60.45	-8.87	Peak	124	234
3	1608.00	53.81	54.00	-0.19	60.43	-6.62	Average	108	70
4	1608.00	56.74	74.00	-17.26	63.36	-6.62	Peak	108	70
5	2390.00	47.50	54.00	-6.50	51.01	-3.51	Average	258	90
6	2390.00	57.44	74.00	-16.56	60.95	-3.51	Peak	258	90
7	4824.00	37.56	54.00	-16.44	34.03	3.53	Average	110	95
8	4824.00	47.08	74.00	-26.92	43.55	3.53	Peak	110	95
9	12060.00	42.87	54.00	-11.13	29.55	13.32	Average	100	90
10	12060.00	56.93	74.00	-17.07	43.61	13.32	Peak	100	90

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		
Level (dBuV/m)			

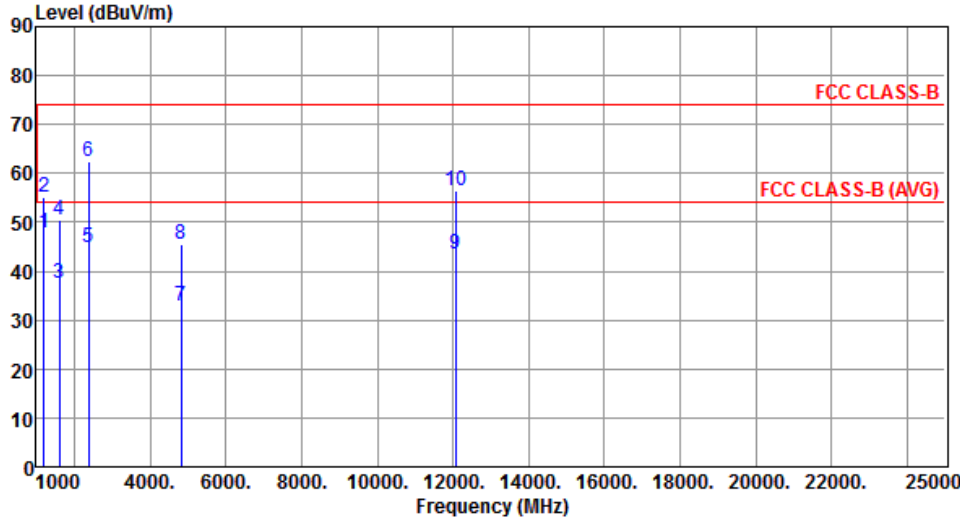
Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		
Level (dBuV/m) <			

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

Modulation	11b	Test Freq. (MHz)	2462																																																																																																														
Polarization	Vertical																																																																																																																
Level (dBuV/m) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 2 1 4 3 6 5 8 7 10 9 FCC CLASS-B FCC CLASS-B (AVG) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1231.00</td><td>51.05</td><td>54.00</td><td>-2.95</td><td>59.76</td><td>-8.71</td><td>Average</td><td>136</td><td>303</td></tr><tr><td>2</td><td>1231.00</td><td>55.73</td><td>74.00</td><td>-18.27</td><td>64.44</td><td>-8.71</td><td>Peak</td><td>136</td><td>303</td></tr><tr><td>3</td><td>1641.33</td><td>42.67</td><td>54.00</td><td>-11.33</td><td>49.16</td><td>-6.49</td><td>Average</td><td>104</td><td>78</td></tr><tr><td>4</td><td>1641.33</td><td>50.65</td><td>74.00</td><td>-23.35</td><td>57.14</td><td>-6.49</td><td>Peak</td><td>104</td><td>78</td></tr><tr><td>5</td><td>2483.50</td><td>46.57</td><td>54.00</td><td>-7.43</td><td>49.68</td><td>-3.11</td><td>Average</td><td>214</td><td>220</td></tr><tr><td>6</td><td>2483.50</td><td>56.06</td><td>74.00</td><td>-17.94</td><td>59.17</td><td>-3.11</td><td>Peak</td><td>214</td><td>220</td></tr><tr><td>7</td><td>4924.00</td><td>45.49</td><td>54.00</td><td>-8.51</td><td>41.64</td><td>3.85</td><td>Average</td><td>210</td><td>174</td></tr><tr><td>8</td><td>4924.00</td><td>49.57</td><td>74.00</td><td>-24.43</td><td>45.72</td><td>3.85</td><td>Peak</td><td>210</td><td>174</td></tr><tr><td>9</td><td>7386.00</td><td>50.19</td><td>54.00</td><td>-3.81</td><td>41.63</td><td>8.56</td><td>Average</td><td>234</td><td>97</td></tr><tr><td>10</td><td>7386.00</td><td>57.17</td><td>74.00</td><td>-16.83</td><td>48.61</td><td>8.56</td><td>Peak</td><td>234</td><td>97</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1231.00	51.05	54.00	-2.95	59.76	-8.71	Average	136	303	2	1231.00	55.73	74.00	-18.27	64.44	-8.71	Peak	136	303	3	1641.33	42.67	54.00	-11.33	49.16	-6.49	Average	104	78	4	1641.33	50.65	74.00	-23.35	57.14	-6.49	Peak	104	78	5	2483.50	46.57	54.00	-7.43	49.68	-3.11	Average	214	220	6	2483.50	56.06	74.00	-17.94	59.17	-3.11	Peak	214	220	7	4924.00	45.49	54.00	-8.51	41.64	3.85	Average	210	174	8	4924.00	49.57	74.00	-24.43	45.72	3.85	Peak	210	174	9	7386.00	50.19	54.00	-3.81	41.63	8.56	Average	234	97	10	7386.00	57.17	74.00	-16.83	48.61	8.56	Peak	234	97
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
1	1231.00	51.05	54.00	-2.95	59.76	-8.71	Average	136	303																																																																																																								
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4	1641.33	50.65	74.00	-23.35	57.14	-6.49	Peak	104	78																																																																																																								
5	2483.50	46.57	54.00	-7.43	49.68	-3.11	Average	214	220																																																																																																								
6	2483.50	56.06	74.00	-17.94	59.17	-3.11	Peak	214	220																																																																																																								
7	4924.00	45.49	54.00	-8.51	41.64	3.85	Average	210	174																																																																																																								
8	4924.00	49.57	74.00	-24.43	45.72	3.85	Peak	210	174																																																																																																								
9	7386.00	50.19	54.00	-3.81	41.63	8.56	Average	234	97																																																																																																								
10	7386.00	57.17	74.00	-16.83	48.61	8.56	Peak	234	97																																																																																																								
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).																																																																																																																	

3.5.6 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	1206.00	47.78	54.00	-6.22	56.65	-8.87	Average	100	80
2	1206.00	54.99	74.00	-19.01	63.86	-8.87	Peak	100	80
3	1608.00	37.67	54.00	-16.33	44.29	-6.62	Average	100	71
4	1608.00	50.58	74.00	-23.42	57.20	-6.62	Peak	100	71
5	2390.00	44.78	54.00	-9.22	48.29	-3.51	Average	166	93
6	2390.00	62.28	74.00	-11.72	65.79	-3.51	Peak	166	93
7	4824.00	32.79	54.00	-21.21	29.26	3.53	Average	100	110
8	4824.00	45.47	74.00	-28.53	41.94	3.53	Peak	100	110
9	12060.00	43.51	54.00	-10.49	30.19	13.32	Average	100	92
10	12060.00	56.58	74.00	-17.42	43.26	13.32	Peak	100	92

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) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 1 2 3 4 5 6 7 8 9 10 FCC CLASS-B FCC CLASS-B (AVG) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1206.00</td><td>42.95</td><td>54.00</td><td>-11.05</td><td>51.82</td><td>-8.87</td><td>Average</td><td>272</td><td>340</td></tr><tr><td>2</td><td>1206.00</td><td>52.06</td><td>74.00</td><td>-21.94</td><td>60.93</td><td>-8.87</td><td>Peak</td><td>272</td><td>340</td></tr><tr><td>3</td><td>1608.00</td><td>36.80</td><td>54.00</td><td>-17.20</td><td>43.42</td><td>-6.62</td><td>Average</td><td>100</td><td>58</td></tr><tr><td>4</td><td>1608.00</td><td>49.33</td><td>74.00</td><td>-24.67</td><td>55.95</td><td>-6.62</td><td>Peak</td><td>100</td><td>58</td></tr><tr><td>5</td><td>2390.00</td><td>52.57</td><td>54.00</td><td>-1.43</td><td>56.08</td><td>-3.51</td><td>Average</td><td>143</td><td>193</td></tr><tr><td>6</td><td>2390.00</td><td>71.59</td><td>74.00</td><td>-2.41</td><td>75.10</td><td>-3.51</td><td>Peak</td><td>143</td><td>193</td></tr><tr><td>7</td><td>4824.00</td><td>35.29</td><td>54.00</td><td>-18.71</td><td>31.76</td><td>3.53</td><td>Average</td><td>134</td><td>86</td></tr><tr><td>8</td><td>4824.00</td><td>50.28</td><td>74.00</td><td>-23.72</td><td>46.75</td><td>3.53</td><td>Peak</td><td>134</td><td>86</td></tr><tr><td>9</td><td>12060.00</td><td>43.10</td><td>54.00</td><td>-10.90</td><td>29.78</td><td>13.32</td><td>Average</td><td>100</td><td>189</td></tr><tr><td>10</td><td>12060.00</td><td>57.20</td><td>74.00</td><td>-16.80</td><td>43.88</td><td>13.32</td><td>Peak</td><td>100</td><td>189</td></tr></table> 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).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1206.00	42.95	54.00	-11.05	51.82	-8.87	Average	272	340	2	1206.00	52.06	74.00	-21.94	60.93	-8.87	Peak	272	340	3	1608.00	36.80	54.00	-17.20	43.42	-6.62	Average	100	58	4	1608.00	49.33	74.00	-24.67	55.95	-6.62	Peak	100	58	5	2390.00	52.57	54.00	-1.43	56.08	-3.51	Average	143	193	6	2390.00	71.59	74.00	-2.41	75.10	-3.51	Peak	143	193	7	4824.00	35.29	54.00	-18.71	31.76	3.53	Average	134	86	8	4824.00	50.28	74.00	-23.72	46.75	3.53	Peak	134	86	9	12060.00	43.10	54.00	-10.90	29.78	13.32	Average	100	189	10	12060.00	57.20	74.00	-16.80	43.88	13.32	Peak	100	189
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
1	1206.00	42.95	54.00	-11.05	51.82	-8.87	Average	272	340																																																																																																								
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3	1608.00	36.80	54.00	-17.20	43.42	-6.62	Average	100	58																																																																																																								
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5	2390.00	52.57	54.00	-1.43	56.08	-3.51	Average	143	193																																																																																																								
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7	4824.00	35.29	54.00	-18.71	31.76	3.53	Average	134	86																																																																																																								
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9	12060.00	43.10	54.00	-10.90	29.78	13.32	Average	100	189																																																																																																								
10	12060.00	57.20	74.00	-16.80	43.88	13.32	Peak	100	189																																																																																																								

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

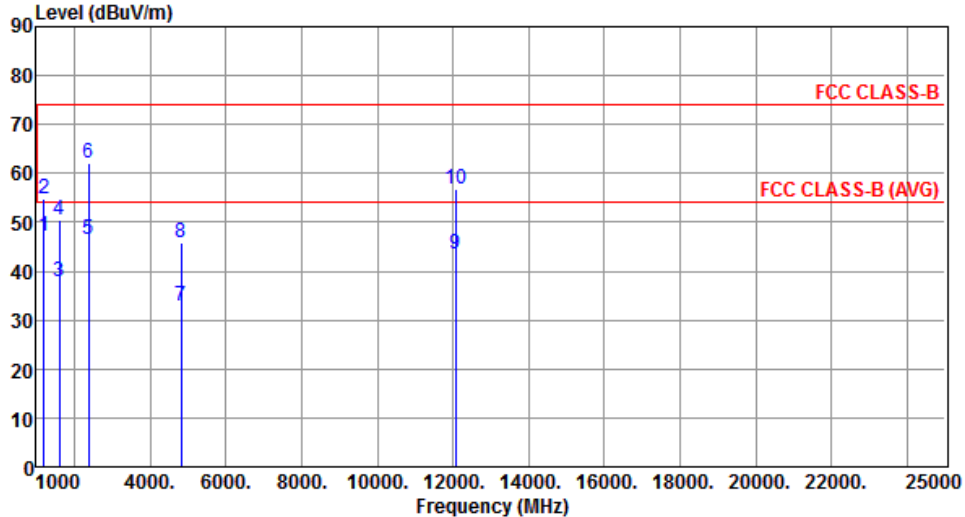
Modulation	11g	Test Freq. (MHz)	2437																																																																																																																																		
Polarization	Vertical																																																																																																																																				
Level (dBUV/m) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 2 4 3 5 6 7 8 9 10 11 12 FCC CLASS-B FCC CLASS-B (AVG) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1218.50</td><td>46.03</td><td>54.00</td><td>-7.97</td><td>54.82</td><td>-8.79</td><td>Average</td><td>264</td><td>330</td></tr><tr><td>2</td><td>1218.50</td><td>53.26</td><td>74.00</td><td>-20.74</td><td>62.05</td><td>-8.79</td><td>Peak</td><td>264</td><td>330</td></tr><tr><td>3</td><td>1624.66</td><td>37.66</td><td>54.00</td><td>-16.34</td><td>44.22</td><td>-6.56</td><td>Average</td><td>100</td><td>40</td></tr><tr><td>4</td><td>1624.66</td><td>50.50</td><td>74.00</td><td>-23.50</td><td>57.06</td><td>-6.56</td><td>Peak</td><td>100</td><td>40</td></tr><tr><td>5</td><td>2390.00</td><td>44.06</td><td>54.00</td><td>-9.94</td><td>47.57</td><td>-3.51</td><td>Average</td><td>269</td><td>205</td></tr><tr><td>6</td><td>2390.00</td><td>65.16</td><td>74.00</td><td>-8.84</td><td>68.67</td><td>-3.51</td><td>Peak</td><td>269</td><td>205</td></tr><tr><td>7</td><td>2483.50</td><td>44.23</td><td>54.00</td><td>-9.77</td><td>47.34</td><td>-3.11</td><td>Average</td><td>269</td><td>205</td></tr><tr><td>8</td><td>2483.50</td><td>66.21</td><td>74.00</td><td>-7.79</td><td>69.32</td><td>-3.11</td><td>Peak</td><td>269</td><td>205</td></tr><tr><td>9</td><td>4874.00</td><td>37.92</td><td>54.00</td><td>-16.08</td><td>34.24</td><td>3.68</td><td>Average</td><td>160</td><td>88</td></tr><tr><td>10</td><td>4874.00</td><td>53.58</td><td>74.00</td><td>-20.42</td><td>49.90</td><td>3.68</td><td>Peak</td><td>160</td><td>88</td></tr><tr><td>11</td><td>7311.00</td><td>42.60</td><td>54.00</td><td>-11.40</td><td>34.20</td><td>8.40</td><td>Average</td><td>232</td><td>63</td></tr><tr><td>12</td><td>7311.00</td><td>57.24</td><td>74.00</td><td>-16.76</td><td>48.84</td><td>8.40</td><td>Peak</td><td>232</td><td>63</td></tr></table> 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).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1218.50	46.03	54.00	-7.97	54.82	-8.79	Average	264	330	2	1218.50	53.26	74.00	-20.74	62.05	-8.79	Peak	264	330	3	1624.66	37.66	54.00	-16.34	44.22	-6.56	Average	100	40	4	1624.66	50.50	74.00	-23.50	57.06	-6.56	Peak	100	40	5	2390.00	44.06	54.00	-9.94	47.57	-3.51	Average	269	205	6	2390.00	65.16	74.00	-8.84	68.67	-3.51	Peak	269	205	7	2483.50	44.23	54.00	-9.77	47.34	-3.11	Average	269	205	8	2483.50	66.21	74.00	-7.79	69.32	-3.11	Peak	269	205	9	4874.00	37.92	54.00	-16.08	34.24	3.68	Average	160	88	10	4874.00	53.58	74.00	-20.42	49.90	3.68	Peak	160	88	11	7311.00	42.60	54.00	-11.40	34.20	8.40	Average	232	63	12	7311.00	57.24	74.00	-16.76	48.84	8.40	Peak	232	63
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																																												
1	1218.50	46.03	54.00	-7.97	54.82	-8.79	Average	264	330																																																																																																																												
2	1218.50	53.26	74.00	-20.74	62.05	-8.79	Peak	264	330																																																																																																																												
3	1624.66	37.66	54.00	-16.34	44.22	-6.56	Average	100	40																																																																																																																												
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9	4874.00	37.92	54.00	-16.08	34.24	3.68	Average	160	88																																																																																																																												
10	4874.00	53.58	74.00	-20.42	49.90	3.68	Peak	160	88																																																																																																																												
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Modulation	11g	Test Freq. (MHz)	2462
Polarization	Horizontal		
Level (dBUV/m) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 2 4 3 5 6 8 7 9 10 1231.00 1231.00 1641.33 1641.33 2483.50 2483.50 4924.00 4924.00 7386.00 7386.00 43.55 53.26 37.39 49.44 41.89 57.20 32.62 46.49 37.37 51.37 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 -10.45 -20.74 -16.61 -24.56 -12.11 -16.80 -21.38 -27.51 -16.63 -22.63 52.26 61.97 43.88 55.93 45.00 60.31 28.77 42.64 28.81 42.81 -8.71 -8.71 -6.49 -6.49 -3.11 -3.11 3.85 3.85 8.56 8.56 Average Peak Average Peak Average Peak Average Peak Average Peak 110 110 100 100 159 159 100 100 100 100 82 82 80 80 87 87 116 116 132 132			

Modulation	11g	Test Freq. (MHz)	2462																																																																																																														
Polarization	Vertical																																																																																																																
Level (dBuV/m) 1 2 3 4 5 6 7 8 9 10 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) FCC CLASS-B FCC CLASS-B (AVG) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>1231.00</td><td>43.01</td><td>54.00</td><td>-10.99</td><td>51.72</td><td>-8.71</td><td>Average</td><td>265</td><td>335</td></tr><tr><td>2</td><td>1231.00</td><td>51.09</td><td>74.00</td><td>-22.91</td><td>59.80</td><td>-8.71</td><td>Peak</td><td>265</td><td>335</td></tr><tr><td>3</td><td>1641.33</td><td>36.84</td><td>54.00</td><td>-17.16</td><td>43.33</td><td>-6.49</td><td>Average</td><td>100</td><td>39</td></tr><tr><td>4</td><td>1641.33</td><td>49.13</td><td>74.00</td><td>-24.87</td><td>55.62</td><td>-6.49</td><td>Peak</td><td>100</td><td>39</td></tr><tr><td>5</td><td>2483.50</td><td>47.11</td><td>54.00</td><td>-6.89</td><td>50.22</td><td>-3.11</td><td>Average</td><td>100</td><td>203</td></tr><tr><td>6</td><td>2483.50</td><td>62.26</td><td>74.00</td><td>-11.74</td><td>65.37</td><td>-3.11</td><td>Peak</td><td>100</td><td>203</td></tr><tr><td>7</td><td>4924.00</td><td>32.94</td><td>54.00</td><td>-21.06</td><td>29.09</td><td>3.85</td><td>Average</td><td>100</td><td>81</td></tr><tr><td>8</td><td>4924.00</td><td>47.21</td><td>74.00</td><td>-26.79</td><td>43.36</td><td>3.85</td><td>Peak</td><td>100</td><td>81</td></tr><tr><td>9</td><td>7386.00</td><td>37.42</td><td>54.00</td><td>-16.58</td><td>28.86</td><td>8.56</td><td>Average</td><td>100</td><td>54</td></tr><tr><td>10</td><td>7386.00</td><td>50.98</td><td>74.00</td><td>-23.02</td><td>42.42</td><td>8.56</td><td>Peak</td><td>100</td><td>54</td></tr></tbody></table> 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).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1231.00	43.01	54.00	-10.99	51.72	-8.71	Average	265	335	2	1231.00	51.09	74.00	-22.91	59.80	-8.71	Peak	265	335	3	1641.33	36.84	54.00	-17.16	43.33	-6.49	Average	100	39	4	1641.33	49.13	74.00	-24.87	55.62	-6.49	Peak	100	39	5	2483.50	47.11	54.00	-6.89	50.22	-3.11	Average	100	203	6	2483.50	62.26	74.00	-11.74	65.37	-3.11	Peak	100	203	7	4924.00	32.94	54.00	-21.06	29.09	3.85	Average	100	81	8	4924.00	47.21	74.00	-26.79	43.36	3.85	Peak	100	81	9	7386.00	37.42	54.00	-16.58	28.86	8.56	Average	100	54	10	7386.00	50.98	74.00	-23.02	42.42	8.56	Peak	100	54
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
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2	1231.00	51.09	74.00	-22.91	59.80	-8.71	Peak	265	335																																																																																																								
3	1641.33	36.84	54.00	-17.16	43.33	-6.49	Average	100	39																																																																																																								
4	1641.33	49.13	74.00	-24.87	55.62	-6.49	Peak	100	39																																																																																																								
5	2483.50	47.11	54.00	-6.89	50.22	-3.11	Average	100	203																																																																																																								
6	2483.50	62.26	74.00	-11.74	65.37	-3.11	Peak	100	203																																																																																																								
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10	7386.00	50.98	74.00	-23.02	42.42	8.56	Peak	100	54																																																																																																								

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	1206.00	47.32	54.00	-6.68	56.19	-8.87	Average	149	75
2	1206.00	54.66	74.00	-19.34	63.53	-8.87	Peak	137	89
3	1608.00	37.72	54.00	-16.28	44.34	-6.62	Average	100	69
4	1608.00	50.36	74.00	-23.64	56.98	-6.62	Peak	100	69
5	2390.00	46.37	54.00	-7.63	49.88	-3.51	Average	164	92
6	2390.00	62.00	74.00	-12.00	65.51	-3.51	Peak	164	92
7	4824.00	32.84	54.00	-21.16	29.31	3.53	Average	100	99
8	4824.00	45.74	74.00	-28.26	42.21	3.53	Peak	100	99
9	12060.00	43.55	54.00	-10.45	30.23	13.32	Average	100	85
10	12060.00	56.66	74.00	-17.34	43.34	13.32	Peak	100	85

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) 1 2 3 4 5 6 7 8 9 10 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) FCC CLASS-B FCC CLASS-B (AVG) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1206.00</td><td>41.93</td><td>54.00</td><td>-12.07</td><td>50.80</td><td>-8.87</td><td>Average</td><td>286</td><td>333</td></tr><tr><td>2</td><td>1206.00</td><td>50.98</td><td>74.00</td><td>-23.02</td><td>59.85</td><td>-8.87</td><td>Peak</td><td>286</td><td>333</td></tr><tr><td>3</td><td>1608.00</td><td>37.18</td><td>54.00</td><td>-16.82</td><td>43.80</td><td>-6.62</td><td>Average</td><td>100</td><td>60</td></tr><tr><td>4</td><td>1608.00</td><td>49.41</td><td>74.00</td><td>-24.59</td><td>56.03</td><td>-6.62</td><td>Peak</td><td>100</td><td>60</td></tr><tr><td>5</td><td>2390.00</td><td>53.78</td><td>54.00</td><td>-0.22</td><td>57.29</td><td>-3.51</td><td>Average</td><td>100</td><td>198</td></tr><tr><td>6</td><td>2390.00</td><td>72.13</td><td>74.00</td><td>-1.87</td><td>75.64</td><td>-3.51</td><td>Peak</td><td>100</td><td>198</td></tr><tr><td>7</td><td>4824.00</td><td>34.18</td><td>54.00</td><td>-19.82</td><td>30.65</td><td>3.53</td><td>Average</td><td>129</td><td>90</td></tr><tr><td>8</td><td>4824.00</td><td>49.42</td><td>74.00</td><td>-24.58</td><td>45.89</td><td>3.53</td><td>Peak</td><td>129</td><td>90</td></tr><tr><td>9</td><td>12060.00</td><td>43.32</td><td>54.00</td><td>-10.68</td><td>30.00</td><td>13.32</td><td>Average</td><td>100</td><td>190</td></tr><tr><td>10</td><td>12060.00</td><td>56.90</td><td>74.00</td><td>-17.10</td><td>43.58</td><td>13.32</td><td>Peak</td><td>100</td><td>190</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1206.00	41.93	54.00	-12.07	50.80	-8.87	Average	286	333	2	1206.00	50.98	74.00	-23.02	59.85	-8.87	Peak	286	333	3	1608.00	37.18	54.00	-16.82	43.80	-6.62	Average	100	60	4	1608.00	49.41	74.00	-24.59	56.03	-6.62	Peak	100	60	5	2390.00	53.78	54.00	-0.22	57.29	-3.51	Average	100	198	6	2390.00	72.13	74.00	-1.87	75.64	-3.51	Peak	100	198	7	4824.00	34.18	54.00	-19.82	30.65	3.53	Average	129	90	8	4824.00	49.42	74.00	-24.58	45.89	3.53	Peak	129	90	9	12060.00	43.32	54.00	-10.68	30.00	13.32	Average	100	190	10	12060.00	56.90	74.00	-17.10	43.58	13.32	Peak	100	190
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
1	1206.00	41.93	54.00	-12.07	50.80	-8.87	Average	286	333																																																																																																								
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3	1608.00	37.18	54.00	-16.82	43.80	-6.62	Average	100	60																																																																																																								
4	1608.00	49.41	74.00	-24.59	56.03	-6.62	Peak	100	60																																																																																																								
5	2390.00	53.78	54.00	-0.22	57.29	-3.51	Average	100	198																																																																																																								
6	2390.00	72.13	74.00	-1.87	75.64	-3.51	Peak	100	198																																																																																																								
7	4824.00	34.18	54.00	-19.82	30.65	3.53	Average	129	90																																																																																																								
8	4824.00	49.42	74.00	-24.58	45.89	3.53	Peak	129	90																																																																																																								
9	12060.00	43.32	54.00	-10.68	30.00	13.32	Average	100	190																																																																																																								
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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)	2437
Polarization	Horizontal		
Level (dBuV/m)			

Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Vertical		
Level (dBuV/m)			

Modulation	HT20	Test Freq. (MHz)	2462																																																																																																														
Polarization	Horizontal																																																																																																																
Level (dBUV/m) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 2 4 3 6 5 8 7 10 9 FCC CLASS-B FCC CLASS-B (AVG) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1231.00</td><td>43.21</td><td>54.00</td><td>-10.79</td><td>51.92</td><td>-8.71</td><td>Average</td><td>117</td><td>74</td></tr><tr><td>2</td><td>1231.00</td><td>52.20</td><td>74.00</td><td>-21.80</td><td>60.91</td><td>-8.71</td><td>Peak</td><td>117</td><td>74</td></tr><tr><td>3</td><td>1641.00</td><td>37.43</td><td>54.00</td><td>-16.57</td><td>43.92</td><td>-6.49</td><td>Average</td><td>100</td><td>82</td></tr><tr><td>4</td><td>1641.00</td><td>49.85</td><td>74.00</td><td>-24.15</td><td>56.34</td><td>-6.49</td><td>Peak</td><td>100</td><td>82</td></tr><tr><td>5</td><td>2483.50</td><td>41.45</td><td>54.00</td><td>-12.55</td><td>44.56</td><td>-3.11</td><td>Average</td><td>154</td><td>89</td></tr><tr><td>6</td><td>2483.50</td><td>55.66</td><td>74.00</td><td>-18.34</td><td>58.77</td><td>-3.11</td><td>Peak</td><td>154</td><td>89</td></tr><tr><td>7</td><td>4924.00</td><td>33.06</td><td>54.00</td><td>-20.94</td><td>29.21</td><td>3.85</td><td>Average</td><td>100</td><td>108</td></tr><tr><td>8</td><td>4924.00</td><td>46.75</td><td>74.00</td><td>-27.25</td><td>42.90</td><td>3.85</td><td>Peak</td><td>100</td><td>108</td></tr><tr><td>9</td><td>7386.00</td><td>38.58</td><td>54.00</td><td>-15.42</td><td>30.02</td><td>8.56</td><td>Average</td><td>100</td><td>128</td></tr><tr><td>10</td><td>7386.00</td><td>51.52</td><td>74.00</td><td>-22.48</td><td>42.96</td><td>8.56</td><td>Peak</td><td>100</td><td>128</td></tr></table> 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).					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1231.00	43.21	54.00	-10.79	51.92	-8.71	Average	117	74	2	1231.00	52.20	74.00	-21.80	60.91	-8.71	Peak	117	74	3	1641.00	37.43	54.00	-16.57	43.92	-6.49	Average	100	82	4	1641.00	49.85	74.00	-24.15	56.34	-6.49	Peak	100	82	5	2483.50	41.45	54.00	-12.55	44.56	-3.11	Average	154	89	6	2483.50	55.66	74.00	-18.34	58.77	-3.11	Peak	154	89	7	4924.00	33.06	54.00	-20.94	29.21	3.85	Average	100	108	8	4924.00	46.75	74.00	-27.25	42.90	3.85	Peak	100	108	9	7386.00	38.58	54.00	-15.42	30.02	8.56	Average	100	128	10	7386.00	51.52	74.00	-22.48	42.96	8.56	Peak	100	128
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
1	1231.00	42.83	54.00	-11.17	51.54	-8.71	Average	258	325																																																																																																								
2	1231.00	50.41	74.00	-23.59	59.12	-8.71	Peak	258	325																																																																																																								
3	1641.00	37.40	54.00	-16.60	43.89	-6.49	Average	100	42																																																																																																								
4	1641.00	49.40	74.00	-24.60	55.89	-6.49	Peak	100	42																																																																																																								
5	2483.50	46.21	54.00	-7.79	49.32	-3.11	Average	112	203																																																																																																								
6	2483.50	59.89	74.00	-14.11	63.00	-3.11	Peak	112	203																																																																																																								
7	4924.00	33.39	54.00	-20.61	29.54	3.85	Average	100	85																																																																																																								
8	4924.00	46.74	74.00	-27.26	42.89	3.85	Peak	100	85																																																																																																								
9	7386.00	37.11	54.00	-16.89	28.55	8.56	Average	100	48																																																																																																								
10	7386.00	51.82	74.00	-22.18	43.26	8.56	Peak	100	48																																																																																																								

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

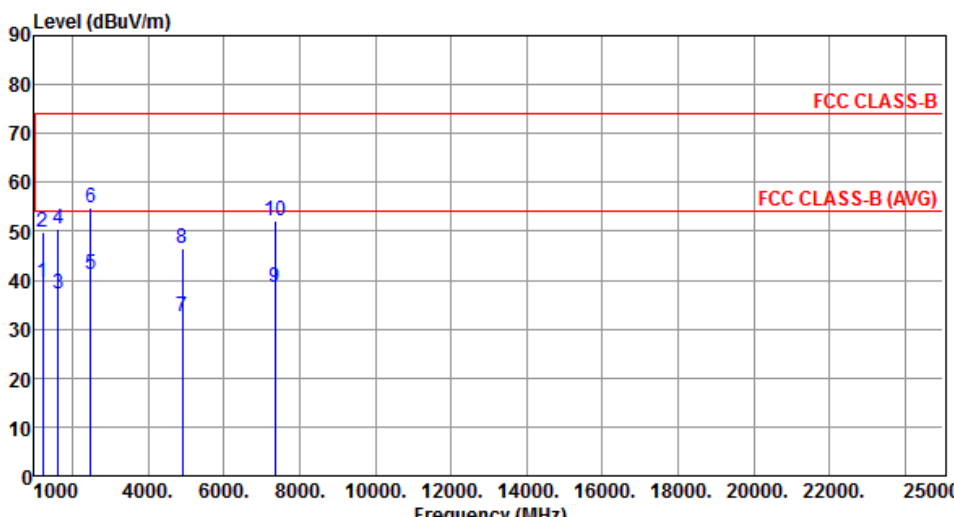
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		
Level (dBUV/m) </			

Modulation	HT40	Test Freq. (MHz)	2422																																																																																																														
Polarization	Vertical																																																																																																																
Level (dBUV/m) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 24 5 6 10 8 9 7 FCC CLASS-B FCC CLASS-B (AVG) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1211.00</td><td>40.05</td><td>54.00</td><td>-13.95</td><td>48.89</td><td>-8.84</td><td>Average</td><td>261</td><td>325</td></tr><tr><td>2</td><td>1211.00</td><td>49.17</td><td>74.00</td><td>-24.83</td><td>58.01</td><td>-8.84</td><td>Peak</td><td>261</td><td>325</td></tr><tr><td>3</td><td>1614.00</td><td>37.10</td><td>54.00</td><td>-16.90</td><td>43.70</td><td>-6.60</td><td>Average</td><td>100</td><td>58</td></tr><tr><td>4</td><td>1614.00</td><td>49.97</td><td>74.00</td><td>-24.03</td><td>56.57</td><td>-6.60</td><td>Peak</td><td>100</td><td>58</td></tr><tr><td>5</td><td>2390.00</td><td>53.48</td><td>54.00</td><td>-0.52</td><td>56.99</td><td>-3.51</td><td>Average</td><td>122</td><td>199</td></tr><tr><td>6</td><td>2390.00</td><td>67.47</td><td>74.00</td><td>-6.53</td><td>70.98</td><td>-3.51</td><td>Peak</td><td>122</td><td>199</td></tr><tr><td>7</td><td>4844.00</td><td>33.18</td><td>54.00</td><td>-20.82</td><td>29.58</td><td>3.60</td><td>Average</td><td>100</td><td>95</td></tr><tr><td>8</td><td>4844.00</td><td>47.06</td><td>74.00</td><td>-26.94</td><td>43.46</td><td>3.60</td><td>Peak</td><td>100</td><td>95</td></tr><tr><td>9</td><td>7266.00</td><td>37.92</td><td>54.00</td><td>-16.08</td><td>29.63</td><td>8.29</td><td>Average</td><td>100</td><td>51</td></tr><tr><td>10</td><td>7266.00</td><td>52.09</td><td>74.00</td><td>-21.91</td><td>43.80</td><td>8.29</td><td>Peak</td><td>100</td><td>51</td></tr></table> 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).					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1211.00	40.05	54.00	-13.95	48.89	-8.84	Average	261	325	2	1211.00	49.17	74.00	-24.83	58.01	-8.84	Peak	261	325	3	1614.00	37.10	54.00	-16.90	43.70	-6.60	Average	100	58	4	1614.00	49.97	74.00	-24.03	56.57	-6.60	Peak	100	58	5	2390.00	53.48	54.00	-0.52	56.99	-3.51	Average	122	199	6	2390.00	67.47	74.00	-6.53	70.98	-3.51	Peak	122	199	7	4844.00	33.18	54.00	-20.82	29.58	3.60	Average	100	95	8	4844.00	47.06	74.00	-26.94	43.46	3.60	Peak	100	95	9	7266.00	37.92	54.00	-16.08	29.63	8.29	Average	100	51	10	7266.00	52.09	74.00	-21.91	43.80	8.29	Peak	100	51
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
1	1211.00	40.05	54.00	-13.95	48.89	-8.84	Average	261	325																																																																																																								
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3	1614.00	37.10	54.00	-16.90	43.70	-6.60	Average	100	58																																																																																																								
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5	2390.00	53.48	54.00	-0.52	56.99	-3.51	Average	122	199																																																																																																								
6	2390.00	67.47	74.00	-6.53	70.98	-3.51	Peak	122	199																																																																																																								
7	4844.00	33.18	54.00	-20.82	29.58	3.60	Average	100	95																																																																																																								
8	4844.00	47.06	74.00	-26.94	43.46	3.60	Peak	100	95																																																																																																								
9	7266.00	37.92	54.00	-16.08	29.63	8.29	Average	100	51																																																																																																								
10	7266.00	52.09	74.00	-21.91	43.80	8.29	Peak	100	51																																																																																																								

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal		
Level (dBuV/m) </			

Modulation	HT40	Test Freq. (MHz)	2437																																																																																																																																		
Polarization	Vertical																																																																																																																																				
Level (dBuV/m) 1 2 3 4 5 6 7 8 9 10 11 12 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) FCC CLASS-B FCC CLASS-B (AVG) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>1218.50</td><td>43.19</td><td>54.00</td><td>-10.81</td><td>51.98</td><td>-8.79</td><td>Average</td><td>289</td><td>316</td></tr><tr><td>2</td><td>1218.50</td><td>50.02</td><td>74.00</td><td>-23.98</td><td>58.81</td><td>-8.79</td><td>Peak</td><td>289</td><td>316</td></tr><tr><td>3</td><td>1624.66</td><td>36.98</td><td>54.00</td><td>-17.02</td><td>43.54</td><td>-6.56</td><td>Average</td><td>100</td><td>48</td></tr><tr><td>4</td><td>1624.66</td><td>49.98</td><td>74.00</td><td>-24.02</td><td>56.54</td><td>-6.56</td><td>Peak</td><td>100</td><td>48</td></tr><tr><td>5</td><td>2390.00</td><td>52.51</td><td>54.00</td><td>-1.49</td><td>56.02</td><td>-3.51</td><td>Average</td><td>122</td><td>199</td></tr><tr><td>6</td><td>2390.00</td><td>65.19</td><td>74.00</td><td>-8.81</td><td>68.70</td><td>-3.51</td><td>Peak</td><td>122</td><td>199</td></tr><tr><td>7</td><td>2483.50</td><td>48.68</td><td>54.00</td><td>-5.32</td><td>51.79</td><td>-3.11</td><td>Average</td><td>112</td><td>203</td></tr><tr><td>8</td><td>2483.50</td><td>64.70</td><td>74.00</td><td>-9.30</td><td>67.81</td><td>-3.11</td><td>Peak</td><td>112</td><td>203</td></tr><tr><td>9</td><td>4874.00</td><td>34.23</td><td>54.00</td><td>-19.77</td><td>30.55</td><td>3.68</td><td>Average</td><td>100</td><td>85</td></tr><tr><td>10</td><td>4874.00</td><td>48.67</td><td>74.00</td><td>-25.33</td><td>44.99</td><td>3.68</td><td>Peak</td><td>100</td><td>85</td></tr><tr><td>11</td><td>7311.00</td><td>38.98</td><td>54.00</td><td>-15.02</td><td>30.58</td><td>8.40</td><td>Average</td><td>100</td><td>80</td></tr><tr><td>12</td><td>7311.00</td><td>53.45</td><td>74.00</td><td>-20.55</td><td>45.05</td><td>8.40</td><td>Peak</td><td>100</td><td>80</td></tr></tbody></table> 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).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1218.50	43.19	54.00	-10.81	51.98	-8.79	Average	289	316	2	1218.50	50.02	74.00	-23.98	58.81	-8.79	Peak	289	316	3	1624.66	36.98	54.00	-17.02	43.54	-6.56	Average	100	48	4	1624.66	49.98	74.00	-24.02	56.54	-6.56	Peak	100	48	5	2390.00	52.51	54.00	-1.49	56.02	-3.51	Average	122	199	6	2390.00	65.19	74.00	-8.81	68.70	-3.51	Peak	122	199	7	2483.50	48.68	54.00	-5.32	51.79	-3.11	Average	112	203	8	2483.50	64.70	74.00	-9.30	67.81	-3.11	Peak	112	203	9	4874.00	34.23	54.00	-19.77	30.55	3.68	Average	100	85	10	4874.00	48.67	74.00	-25.33	44.99	3.68	Peak	100	85	11	7311.00	38.98	54.00	-15.02	30.58	8.40	Average	100	80	12	7311.00	53.45	74.00	-20.55	45.05	8.40	Peak	100	80
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																																												
1	1218.50	43.19	54.00	-10.81	51.98	-8.79	Average	289	316																																																																																																																												
2	1218.50	50.02	74.00	-23.98	58.81	-8.79	Peak	289	316																																																																																																																												
3	1624.66	36.98	54.00	-17.02	43.54	-6.56	Average	100	48																																																																																																																												
4	1624.66	49.98	74.00	-24.02	56.54	-6.56	Peak	100	48																																																																																																																												
5	2390.00	52.51	54.00	-1.49	56.02	-3.51	Average	122	199																																																																																																																												
6	2390.00	65.19	74.00	-8.81	68.70	-3.51	Peak	122	199																																																																																																																												
7	2483.50	48.68	54.00	-5.32	51.79	-3.11	Average	112	203																																																																																																																												
8	2483.50	64.70	74.00	-9.30	67.81	-3.11	Peak	112	203																																																																																																																												
9	4874.00	34.23	54.00	-19.77	30.55	3.68	Average	100	85																																																																																																																												
10	4874.00	48.67	74.00	-25.33	44.99	3.68	Peak	100	85																																																																																																																												
11	7311.00	38.98	54.00	-15.02	30.58	8.40	Average	100	80																																																																																																																												
12	7311.00	53.45	74.00	-20.55	45.05	8.40	Peak	100	80																																																																																																																												

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal		



	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn
	MHz	level	dBuV/m	dB	reading	dB		High	Table
		dBuV/m			dBuV			cm	deg
1	1226.00	39.60	54.00	-14.40	48.34	-8.74	Average	120	76
2	1226.00	49.95	74.00	-24.05	58.69	-8.74	Peak	120	76
3	1634.66	37.17	54.00	-16.83	43.69	-6.52	Average	100	77
4	1634.66	50.38	74.00	-23.62	56.90	-6.52	Peak	100	77
5	2483.50	41.17	54.00	-12.83	44.28	-3.11	Average	158	92
6	2483.50	54.85	74.00	-19.15	57.96	-3.11	Peak	158	92
7	4904.00	32.43	54.00	-21.57	28.64	3.79	Average	100	105
8	4904.00	46.47	74.00	-27.53	42.68	3.79	Peak	100	105
9	7356.00	38.46	54.00	-15.54	29.95	8.51	Average	100	127
10	7356.00	51.98	74.00	-22.02	43.47	8.51	Peak	100	127

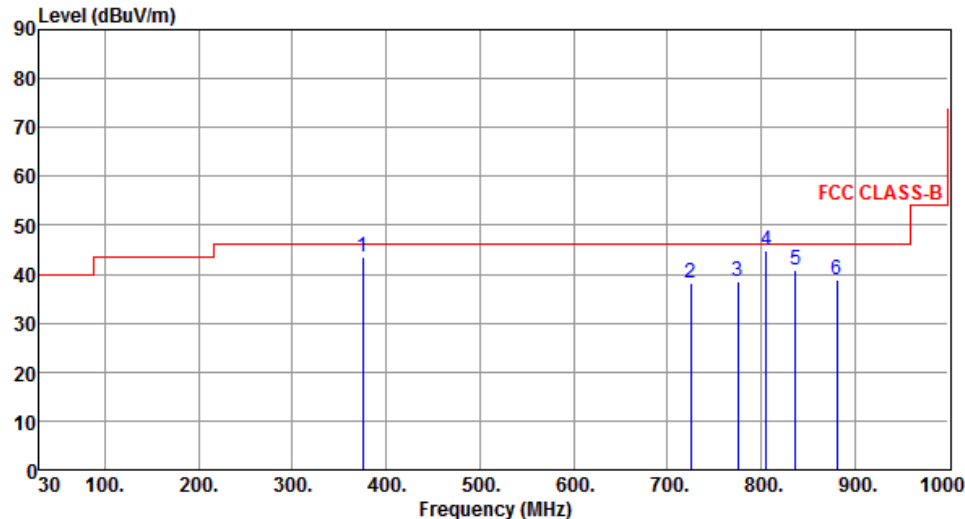
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

Modulation	HT40	Test Freq. (MHz)	2452																																																																																																														
Polarization	Vertical																																																																																																																
Level (dBUV/m) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 24 1 3 5 6 7 8 9 10 FCC CLASS-B FCC CLASS-B (AVG) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>1226.00</td><td>38.82</td><td>54.00</td><td>-15.18</td><td>47.56</td><td>-8.74</td><td>Average</td><td>262</td><td>320</td></tr><tr><td>2</td><td>1226.00</td><td>49.66</td><td>74.00</td><td>-24.34</td><td>58.40</td><td>-8.74</td><td>Peak</td><td>262</td><td>320</td></tr><tr><td>3</td><td>1634.66</td><td>37.49</td><td>54.00</td><td>-16.51</td><td>44.01</td><td>-6.52</td><td>Average</td><td>100</td><td>51</td></tr><tr><td>4</td><td>1634.66</td><td>50.37</td><td>74.00</td><td>-23.63</td><td>56.89</td><td>-6.52</td><td>Peak</td><td>100</td><td>51</td></tr><tr><td>5</td><td>2483.50</td><td>47.12</td><td>54.00</td><td>-6.88</td><td>50.23</td><td>-3.11</td><td>Average</td><td>162</td><td>193</td></tr><tr><td>6</td><td>2483.50</td><td>59.73</td><td>74.00</td><td>-14.27</td><td>62.84</td><td>-3.11</td><td>Peak</td><td>162</td><td>193</td></tr><tr><td>7</td><td>4904.00</td><td>33.99</td><td>54.00</td><td>-20.01</td><td>30.20</td><td>3.79</td><td>Average</td><td>100</td><td>90</td></tr><tr><td>8</td><td>4904.00</td><td>47.36</td><td>74.00</td><td>-26.64</td><td>43.57</td><td>3.79</td><td>Peak</td><td>100</td><td>90</td></tr><tr><td>9</td><td>7356.00</td><td>38.00</td><td>54.00</td><td>-16.00</td><td>29.49</td><td>8.51</td><td>Average</td><td>100</td><td>50</td></tr><tr><td>10</td><td>7356.00</td><td>52.14</td><td>74.00</td><td>-21.86</td><td>43.63</td><td>8.51</td><td>Peak</td><td>100</td><td>50</td></tr></tbody></table> 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).					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1226.00	38.82	54.00	-15.18	47.56	-8.74	Average	262	320	2	1226.00	49.66	74.00	-24.34	58.40	-8.74	Peak	262	320	3	1634.66	37.49	54.00	-16.51	44.01	-6.52	Average	100	51	4	1634.66	50.37	74.00	-23.63	56.89	-6.52	Peak	100	51	5	2483.50	47.12	54.00	-6.88	50.23	-3.11	Average	162	193	6	2483.50	59.73	74.00	-14.27	62.84	-3.11	Peak	162	193	7	4904.00	33.99	54.00	-20.01	30.20	3.79	Average	100	90	8	4904.00	47.36	74.00	-26.64	43.57	3.79	Peak	100	90	9	7356.00	38.00	54.00	-16.00	29.49	8.51	Average	100	50	10	7356.00	52.14	74.00	-21.86	43.63	8.51	Peak	100	50
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
1	1226.00	38.82	54.00	-15.18	47.56	-8.74	Average	262	320																																																																																																								
2	1226.00	49.66	74.00	-24.34	58.40	-8.74	Peak	262	320																																																																																																								
3	1634.66	37.49	54.00	-16.51	44.01	-6.52	Average	100	51																																																																																																								
4	1634.66	50.37	74.00	-23.63	56.89	-6.52	Peak	100	51																																																																																																								
5	2483.50	47.12	54.00	-6.88	50.23	-3.11	Average	162	193																																																																																																								
6	2483.50	59.73	74.00	-14.27	62.84	-3.11	Peak	162	193																																																																																																								
7	4904.00	33.99	54.00	-20.01	30.20	3.79	Average	100	90																																																																																																								
8	4904.00	47.36	74.00	-26.64	43.57	3.79	Peak	100	90																																																																																																								
9	7356.00	38.00	54.00	-16.00	29.49	8.51	Average	100	50																																																																																																								
10	7356.00	52.14	74.00	-21.86	43.63	8.51	Peak	100	50																																																																																																								

Test Configuration 2

3.5.9 Transmitter Radiated Unwanted Emissions (Below 1GHz)

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

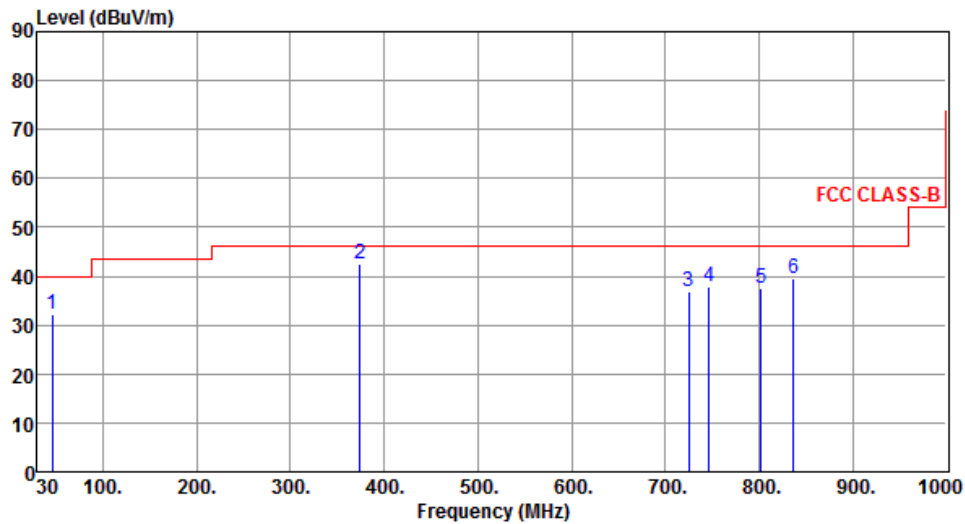


The graph displays the radiated unwanted emissions for a transmitter. The y-axis represents the Level in dBuV/m, ranging from 0 to 90. The x-axis represents the Frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBuV/m from 30 to 100 MHz, 45 dBuV/m from 100 to 1000 MHz, and 55 dBuV/m from 1000 to 10000 MHz. Six test results are plotted as blue vertical lines, labeled 1 through 6. The test results are summarized 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	374.99	43.57	46.00	-2.43	49.51	-5.94	QP	100	58
2	725.49	38.06	46.00	-7.94	36.79	1.27	Peak	---	---
3	774.96	38.55	46.00	-7.45	36.50	2.05	Peak	---	---
4	805.49	44.93	46.00	-1.07	42.55	2.38	QP	100	159
5	837.04	40.92	46.00	-5.08	38.07	2.85	Peak	---	---
6	880.69	38.86	46.00	-7.14	35.44	3.42	Peak	---	---

Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).
Note 3: All spurious emissions below 30MHz are more than 20 dB below the limit.

Modulation	11g	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	45.52	32.22	40.00	-7.78	40.38	-8.16	Peak	---	---
2	374.35	42.66	46.00	-3.34	48.62	-5.96	Peak	---	---
3	725.49	36.82	46.00	-9.18	35.55	1.27	Peak	---	---
4	746.83	37.97	46.00	-8.03	36.22	1.75	Peak	---	---
5	802.12	37.44	46.00	-8.56	35.12	2.32	Peak	---	---
6	837.04	39.51	46.00	-6.49	36.66	2.85	Peak	---	---

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

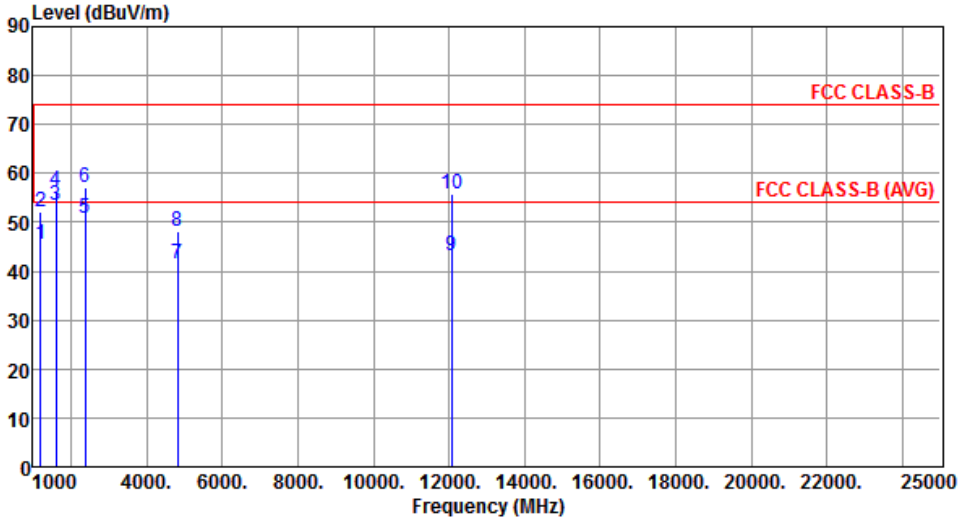
*Factor includes antenna factor , cable loss and amplifier gain

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.

3.5.10 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	1206.00	45.36	54.00	-8.64	54.23	-8.87	Average	100	339
2	1206.00	52.19	74.00	-21.81	61.06	-8.87	Peak	100	339
3	1608.00	53.59	54.00	-0.41	60.21	-6.62	Average	100	186
4	1608.00	56.56	74.00	-17.44	63.18	-6.62	Peak	100	186
5	2390.00	50.82	54.00	-3.18	54.33	-3.51	Average	208	320
6	2390.00	57.26	74.00	-16.74	60.77	-3.51	Peak	208	320
7	4824.00	41.48	54.00	-12.52	37.95	3.53	Average	194	208
8	4824.00	48.24	74.00	-25.76	44.71	3.53	Peak	194	208
9	12060.00	43.33	54.00	-10.67	30.01	13.32	Average	100	71
10	12060.00	55.75	74.00	-18.25	42.43	13.32	Peak	100	71

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		
Level (dBuV/m) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 2 4 8 3 5 7 10 12 1218.50 1624.66 2390.00 2483.50 4874.00 7311.00 46.30 51.11 42.13 55.20 43.57 54.35 42.05 47.89 51.80 57.69 54.00 54.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 -7.70 -2.89 -11.87 -18.80 -10.43 -19.65 -11.95 -26.11 -2.20 -16.31 55.09 57.67 45.64 58.71 46.68 57.46 38.37 44.21 43.40 49.29 -8.79 -6.56 -3.51 -3.51 -3.11 -3.11 3.68 3.68 8.40 8.40 Average Peak Average Peak Average Peak Average Peak Average Peak 100 100 323 323 323 323 192 192 284 284 341 187 339 339 339 339 208 208 200 200 Freq. Emission Limit Margin SA Factor Remark ANT Turn level reading MHz dBuV/m dBuV/m dB dBuV dB cm deg 1 2 3 4 5 6 7 8 9 10 11 12 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).			

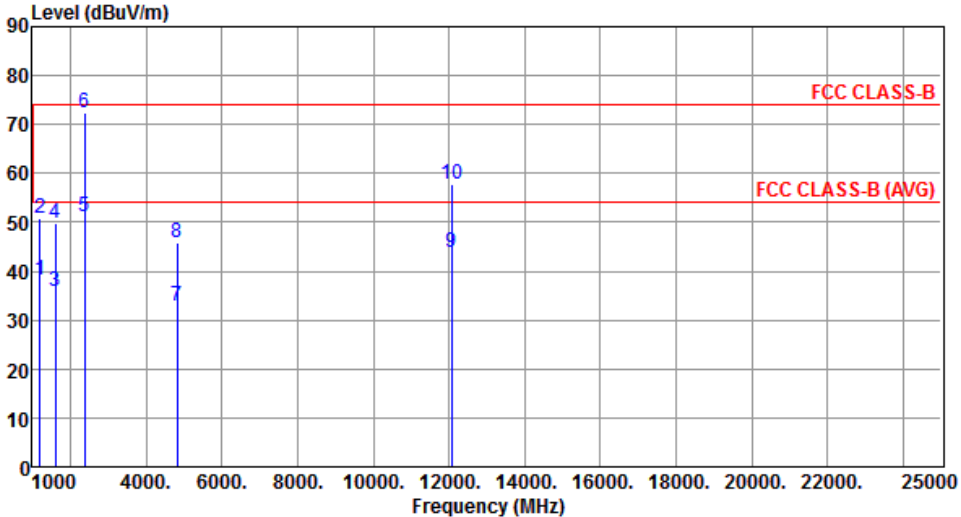
Modulation	11b	Test Freq. (MHz)	2437																																																																																																																																		
Polarization	Vertical																																																																																																																																				
Level (dBuV/m) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 2 4 8 10 11 12 1 3 5 7 9 FCC CLASS-B FCC CLASS-B (AVG) <table><thead><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr></thead><tbody><tr><td>1</td><td>1218.50</td><td>43.93</td><td>54.00</td><td>-10.07</td><td>52.72</td><td>-8.79</td><td>Average</td><td>100</td><td>212</td></tr><tr><td>2</td><td>1218.50</td><td>51.11</td><td>74.00</td><td>-22.89</td><td>59.90</td><td>-8.79</td><td>Peak</td><td>100</td><td>212</td></tr><tr><td>3</td><td>1624.66</td><td>43.99</td><td>54.00</td><td>-10.01</td><td>50.55</td><td>-6.56</td><td>Average</td><td>100</td><td>225</td></tr><tr><td>4</td><td>1624.66</td><td>50.67</td><td>74.00</td><td>-23.33</td><td>57.23</td><td>-6.56</td><td>Peak</td><td>100</td><td>225</td></tr><tr><td>5</td><td>2390.00</td><td>39.17</td><td>54.00</td><td>-14.83</td><td>42.68</td><td>-3.51</td><td>Average</td><td>139</td><td>186</td></tr><tr><td>6</td><td>2390.00</td><td>52.34</td><td>74.00</td><td>-21.66</td><td>55.85</td><td>-3.51</td><td>Peak</td><td>139</td><td>186</td></tr><tr><td>7</td><td>2483.50</td><td>40.13</td><td>54.00</td><td>-13.87</td><td>43.24</td><td>-3.11</td><td>Average</td><td>139</td><td>186</td></tr><tr><td>8</td><td>2483.50</td><td>52.66</td><td>74.00</td><td>-21.34</td><td>55.77</td><td>-3.11</td><td>Peak</td><td>139</td><td>186</td></tr><tr><td>9</td><td>4874.00</td><td>41.06</td><td>54.00</td><td>-12.94</td><td>37.38</td><td>3.68</td><td>Average</td><td>100</td><td>276</td></tr><tr><td>10</td><td>4874.00</td><td>47.48</td><td>74.00</td><td>-26.52</td><td>43.80</td><td>3.68</td><td>Peak</td><td>100</td><td>276</td></tr><tr><td>11</td><td>7311.00</td><td>53.62</td><td>54.00</td><td>-0.38</td><td>45.22</td><td>8.40</td><td>Average</td><td>100</td><td>257</td></tr><tr><td>12</td><td>7311.00</td><td>59.03</td><td>74.00</td><td>-14.97</td><td>50.63</td><td>8.40</td><td>Peak</td><td>100</td><td>257</td></tr></tbody></table> 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).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1218.50	43.93	54.00	-10.07	52.72	-8.79	Average	100	212	2	1218.50	51.11	74.00	-22.89	59.90	-8.79	Peak	100	212	3	1624.66	43.99	54.00	-10.01	50.55	-6.56	Average	100	225	4	1624.66	50.67	74.00	-23.33	57.23	-6.56	Peak	100	225	5	2390.00	39.17	54.00	-14.83	42.68	-3.51	Average	139	186	6	2390.00	52.34	74.00	-21.66	55.85	-3.51	Peak	139	186	7	2483.50	40.13	54.00	-13.87	43.24	-3.11	Average	139	186	8	2483.50	52.66	74.00	-21.34	55.77	-3.11	Peak	139	186	9	4874.00	41.06	54.00	-12.94	37.38	3.68	Average	100	276	10	4874.00	47.48	74.00	-26.52	43.80	3.68	Peak	100	276	11	7311.00	53.62	54.00	-0.38	45.22	8.40	Average	100	257	12	7311.00	59.03	74.00	-14.97	50.63	8.40	Peak	100	257
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																																												
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2	1218.50	51.11	74.00	-22.89	59.90	-8.79	Peak	100	212																																																																																																																												
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4	1624.66	50.67	74.00	-23.33	57.23	-6.56	Peak	100	225																																																																																																																												
5	2390.00	39.17	54.00	-14.83	42.68	-3.51	Average	139	186																																																																																																																												
6	2390.00	52.34	74.00	-21.66	55.85	-3.51	Peak	139	186																																																																																																																												
7	2483.50	40.13	54.00	-13.87	43.24	-3.11	Average	139	186																																																																																																																												
8	2483.50	52.66	74.00	-21.34	55.77	-3.11	Peak	139	186																																																																																																																												
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Modulation	11b	Test Freq. (MHz)	2462																																																																																																																																		
Polarization	Horizontal																																																																																																																																				
Level (dBUV/m) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 1 2 3 4 5 6 7 8 9 10 1231.00 1231.00 1641.33 1641.33 2483.50 2483.50 4924.00 4924.00 7386.00 7386.00 44.92 51.97 49.42 54.84 51.57 58.46 40.38 47.28 49.09 56.08 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 -9.08 -22.03 -4.58 -19.16 -2.43 -15.54 -13.62 -26.72 -4.91 -17.92 53.63 60.68 55.91 61.33 54.68 61.57 36.53 43.43 40.53 47.52 -8.71 -8.71 -6.49 -6.49 -3.11 -3.11 3.85 3.85 8.56 8.56 Average Peak Average Peak Average Peak Average Peak Average Peak 100 100 100 100 248 248 201 201 261 261 340 340 186 186 322 322 208 208 198 198 <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>1231.00</td><td>44.92</td><td>54.00</td><td>-9.08</td><td>53.63</td><td>-8.71</td><td>Average</td><td>100</td><td>340</td></tr><tr><td>2</td><td>1231.00</td><td>51.97</td><td>74.00</td><td>-22.03</td><td>60.68</td><td>-8.71</td><td>Peak</td><td>100</td><td>340</td></tr><tr><td>3</td><td>1641.33</td><td>49.42</td><td>54.00</td><td>-4.58</td><td>55.91</td><td>-6.49</td><td>Average</td><td>100</td><td>186</td></tr><tr><td>4</td><td>1641.33</td><td>54.84</td><td>74.00</td><td>-19.16</td><td>61.33</td><td>-6.49</td><td>Peak</td><td>100</td><td>186</td></tr><tr><td>5</td><td>2483.50</td><td>51.57</td><td>54.00</td><td>-2.43</td><td>54.68</td><td>-3.11</td><td>Average</td><td>248</td><td>322</td></tr><tr><td>6</td><td>2483.50</td><td>58.46</td><td>74.00</td><td>-15.54</td><td>61.57</td><td>-3.11</td><td>Peak</td><td>248</td><td>322</td></tr><tr><td>7</td><td>4924.00</td><td>40.38</td><td>54.00</td><td>-13.62</td><td>36.53</td><td>3.85</td><td>Average</td><td>201</td><td>208</td></tr><tr><td>8</td><td>4924.00</td><td>47.28</td><td>74.00</td><td>-26.72</td><td>43.43</td><td>3.85</td><td>Peak</td><td>201</td><td>208</td></tr><tr><td>9</td><td>7386.00</td><td>49.09</td><td>54.00</td><td>-4.91</td><td>40.53</td><td>8.56</td><td>Average</td><td>261</td><td>198</td></tr><tr><td>10</td><td>7386.00</td><td>56.08</td><td>74.00</td><td>-17.92</td><td>47.52</td><td>8.56</td><td>Peak</td><td>261</td><td>198</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	1231.00	44.92	54.00	-9.08	53.63	-8.71	Average	100	340	2	1231.00	51.97	74.00	-22.03	60.68	-8.71	Peak	100	340	3	1641.33	49.42	54.00	-4.58	55.91	-6.49	Average	100	186	4	1641.33	54.84	74.00	-19.16	61.33	-6.49	Peak	100	186	5	2483.50	51.57	54.00	-2.43	54.68	-3.11	Average	248	322	6	2483.50	58.46	74.00	-15.54	61.57	-3.11	Peak	248	322	7	4924.00	40.38	54.00	-13.62	36.53	3.85	Average	201	208	8	4924.00	47.28	74.00	-26.72	43.43	3.85	Peak	201	208	9	7386.00	49.09	54.00	-4.91	40.53	8.56	Average	261	198	10	7386.00	56.08	74.00	-17.92	47.52	8.56	Peak	261	198
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																												
	MHz	level	dBuV/m	dB	reading	dB		High	Table																																																																																																																												
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1	1231.00	44.92	54.00	-9.08	53.63	-8.71	Average	100	340																																																																																																																												
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4	1641.33	54.84	74.00	-19.16	61.33	-6.49	Peak	100	186																																																																																																																												
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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)	2462
Polarization	Vertical		
Level (dBUV/m) </			

3.5.11 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	1206.00	38.17	54.00	-15.83	47.04	-8.87	Average	248	309
2	1206.00	50.81	74.00	-23.19	59.68	-8.87	Peak	248	309
3	1608.00	35.98	54.00	-18.02	42.60	-6.62	Average	100	241
4	1608.00	49.96	74.00	-24.04	56.58	-6.62	Peak	100	241
5	2390.00	51.26	54.00	-2.74	54.77	-3.51	Average	234	354
6	2390.00	72.31	74.00	-1.69	75.82	-3.51	Peak	234	354
7	4824.00	32.93	54.00	-21.07	29.40	3.53	Average	100	231
8	4824.00	45.89	74.00	-28.11	42.36	3.53	Peak	100	231
9	12060.00	43.88	54.00	-10.12	30.56	13.32	Average	100	348
10	12060.00	57.84	74.00	-16.16	44.52	13.32	Peak	100	348

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) 1 2 3 4 5 6 7 8 9 10 11 12 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) FCC CLASS-B FCC CLASS-B (AVG) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1218.50</td><td>39.11</td><td>54.00</td><td>-14.89</td><td>47.90</td><td>-8.79</td><td>Average</td><td>246</td><td>313</td></tr><tr><td>2</td><td>1218.50</td><td>49.45</td><td>74.00</td><td>-24.55</td><td>58.24</td><td>-8.79</td><td>Peak</td><td>246</td><td>313</td></tr><tr><td>3</td><td>1624.66</td><td>41.14</td><td>54.00</td><td>-12.86</td><td>47.70</td><td>-6.56</td><td>Average</td><td>100</td><td>240</td></tr><tr><td>4</td><td>1624.66</td><td>52.33</td><td>74.00</td><td>-21.67</td><td>58.89</td><td>-6.56</td><td>Peak</td><td>100</td><td>240</td></tr><tr><td>5</td><td>2390.00</td><td>43.29</td><td>54.00</td><td>-10.71</td><td>46.80</td><td>-3.51</td><td>Average</td><td>232</td><td>356</td></tr><tr><td>6</td><td>2390.00</td><td>64.13</td><td>74.00</td><td>-9.87</td><td>67.64</td><td>-3.51</td><td>Peak</td><td>232</td><td>356</td></tr><tr><td>7</td><td>2483.50</td><td>44.59</td><td>54.00</td><td>-9.41</td><td>47.70</td><td>-3.11</td><td>Average</td><td>232</td><td>356</td></tr><tr><td>8</td><td>2483.50</td><td>68.65</td><td>74.00</td><td>-5.35</td><td>71.76</td><td>-3.11</td><td>Peak</td><td>232</td><td>356</td></tr><tr><td>9</td><td>4874.00</td><td>32.44</td><td>54.00</td><td>-21.56</td><td>28.76</td><td>3.68</td><td>Average</td><td>100</td><td>210</td></tr><tr><td>10</td><td>4874.00</td><td>44.97</td><td>74.00</td><td>-29.03</td><td>41.29</td><td>3.68</td><td>Peak</td><td>100</td><td>210</td></tr><tr><td>11</td><td>7311.00</td><td>44.90</td><td>54.00</td><td>-9.10</td><td>36.50</td><td>8.40</td><td>Average</td><td>377</td><td>201</td></tr><tr><td>12</td><td>7311.00</td><td>58.38</td><td>74.00</td><td>-15.62</td><td>49.98</td><td>8.40</td><td>Peak</td><td>377</td><td>201</td></tr></table> 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).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1218.50	39.11	54.00	-14.89	47.90	-8.79	Average	246	313	2	1218.50	49.45	74.00	-24.55	58.24	-8.79	Peak	246	313	3	1624.66	41.14	54.00	-12.86	47.70	-6.56	Average	100	240	4	1624.66	52.33	74.00	-21.67	58.89	-6.56	Peak	100	240	5	2390.00	43.29	54.00	-10.71	46.80	-3.51	Average	232	356	6	2390.00	64.13	74.00	-9.87	67.64	-3.51	Peak	232	356	7	2483.50	44.59	54.00	-9.41	47.70	-3.11	Average	232	356	8	2483.50	68.65	74.00	-5.35	71.76	-3.11	Peak	232	356	9	4874.00	32.44	54.00	-21.56	28.76	3.68	Average	100	210	10	4874.00	44.97	74.00	-29.03	41.29	3.68	Peak	100	210	11	7311.00	44.90	54.00	-9.10	36.50	8.40	Average	377	201	12	7311.00	58.38	74.00	-15.62	49.98	8.40	Peak	377	201
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																																												
1	1218.50	39.11	54.00	-14.89	47.90	-8.79	Average	246	313																																																																																																																												
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8	2483.50	68.65	74.00	-5.35	71.76	-3.11	Peak	232	356																																																																																																																												
9	4874.00	32.44	54.00	-21.56	28.76	3.68	Average	100	210																																																																																																																												
10	4874.00	44.97	74.00	-29.03	41.29	3.68	Peak	100	210																																																																																																																												
11	7311.00	44.90	54.00	-9.10	36.50	8.40	Average	377	201																																																																																																																												
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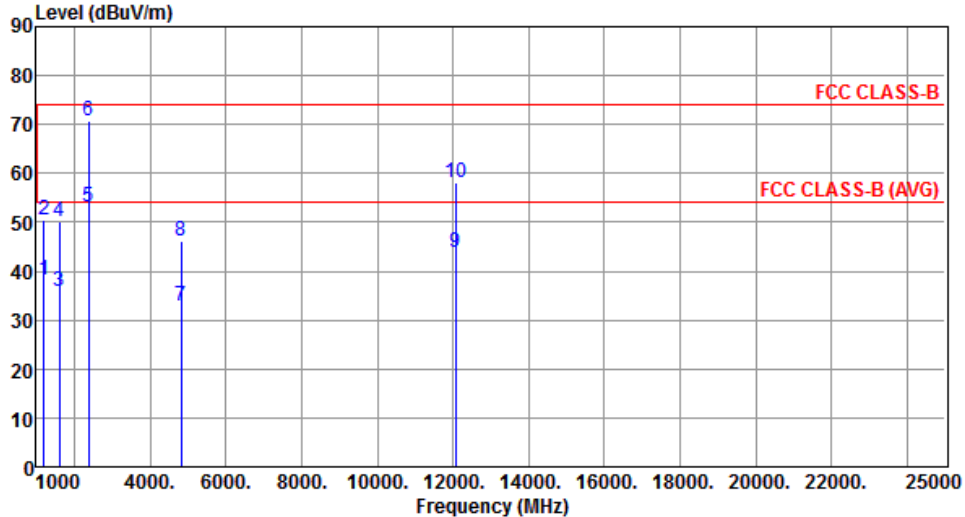
Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical		
Level (dBuV/m) <			

Modulation	11g	Test Freq. (MHz)	2462																																																																																																														
Polarization	Horizontal																																																																																																																
Level (dBUV/m) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 2 4 3 5 6 7 8 9 10 FCC CLASS-B FCC CLASS-B (AVG) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1231.00</td><td>36.46</td><td>54.00</td><td>-17.54</td><td>45.17</td><td>-8.71</td><td>Average</td><td>251</td><td>336</td></tr><tr><td>2</td><td>1231.00</td><td>47.89</td><td>74.00</td><td>-26.11</td><td>56.60</td><td>-8.71</td><td>Peak</td><td>251</td><td>336</td></tr><tr><td>3</td><td>1641.33</td><td>37.39</td><td>54.00</td><td>-16.61</td><td>43.88</td><td>-6.49</td><td>Average</td><td>100</td><td>234</td></tr><tr><td>4</td><td>1641.33</td><td>49.01</td><td>74.00</td><td>-24.99</td><td>55.50</td><td>-6.49</td><td>Peak</td><td>100</td><td>234</td></tr><tr><td>5</td><td>2483.50</td><td>50.87</td><td>54.00</td><td>-3.13</td><td>53.98</td><td>-3.11</td><td>Average</td><td>194</td><td>333</td></tr><tr><td>6</td><td>2483.50</td><td>68.39</td><td>74.00</td><td>-5.61</td><td>71.50</td><td>-3.11</td><td>Peak</td><td>194</td><td>333</td></tr><tr><td>7</td><td>4924.00</td><td>33.34</td><td>54.00</td><td>-20.66</td><td>29.49</td><td>3.85</td><td>Average</td><td>100</td><td>231</td></tr><tr><td>8</td><td>4924.00</td><td>46.05</td><td>74.00</td><td>-27.95</td><td>42.20</td><td>3.85</td><td>Peak</td><td>100</td><td>231</td></tr><tr><td>9</td><td>7386.00</td><td>41.61</td><td>54.00</td><td>-12.39</td><td>33.05</td><td>8.56</td><td>Average</td><td>374</td><td>214</td></tr><tr><td>10</td><td>7386.00</td><td>55.71</td><td>74.00</td><td>-18.29</td><td>47.15</td><td>8.56</td><td>Peak</td><td>374</td><td>214</td></tr></table>					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1231.00	36.46	54.00	-17.54	45.17	-8.71	Average	251	336	2	1231.00	47.89	74.00	-26.11	56.60	-8.71	Peak	251	336	3	1641.33	37.39	54.00	-16.61	43.88	-6.49	Average	100	234	4	1641.33	49.01	74.00	-24.99	55.50	-6.49	Peak	100	234	5	2483.50	50.87	54.00	-3.13	53.98	-3.11	Average	194	333	6	2483.50	68.39	74.00	-5.61	71.50	-3.11	Peak	194	333	7	4924.00	33.34	54.00	-20.66	29.49	3.85	Average	100	231	8	4924.00	46.05	74.00	-27.95	42.20	3.85	Peak	100	231	9	7386.00	41.61	54.00	-12.39	33.05	8.56	Average	374	214	10	7386.00	55.71	74.00	-18.29	47.15	8.56	Peak	374	214
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
1	1231.00	36.46	54.00	-17.54	45.17	-8.71	Average	251	336																																																																																																								
2	1231.00	47.89	74.00	-26.11	56.60	-8.71	Peak	251	336																																																																																																								
3	1641.33	37.39	54.00	-16.61	43.88	-6.49	Average	100	234																																																																																																								
4	1641.33	49.01	74.00	-24.99	55.50	-6.49	Peak	100	234																																																																																																								
5	2483.50	50.87	54.00	-3.13	53.98	-3.11	Average	194	333																																																																																																								
6	2483.50	68.39	74.00	-5.61	71.50	-3.11	Peak	194	333																																																																																																								
7	4924.00	33.34	54.00	-20.66	29.49	3.85	Average	100	231																																																																																																								
8	4924.00	46.05	74.00	-27.95	42.20	3.85	Peak	100	231																																																																																																								
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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)	2462
Polarization	Vertical		
Level (dBUV/m) <			

3.5.12 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	1206.00	38.11	54.00	-15.89	46.98	-8.87	Average	254	304
2	1206.00	50.55	74.00	-23.45	59.42	-8.87	Peak	254	304
3	1608.00	35.85	54.00	-18.15	42.47	-6.62	Average	100	239
4	1608.00	50.25	74.00	-23.75	56.87	-6.62	Peak	100	239
5	2390.00	52.98	54.00	-1.02	56.49	-3.51	Average	261	355
6	2390.00	70.77	74.00	-3.23	74.28	-3.51	Peak	261	355
7	4824.00	33.01	54.00	-20.99	29.48	3.53	Average	100	235
8	4824.00	46.18	74.00	-27.82	42.65	3.53	Peak	100	235
9	12060.00	43.86	54.00	-10.14	30.54	13.32	Average	100	350
10	12060.00	58.06	74.00	-15.94	44.74	13.32	Peak	100	350

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) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 1 2 3 4 5 6 7 8 9 10 11 12 1218.50 1218.50 1624.66 1624.66 2390.00 2390.00 2483.50 2483.50 4874.00 4874.00 7311.00 7311.00 39.05 49.49 39.83 52.64 46.99 66.02 47.19 67.51 33.00 46.67 44.67 59.12 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 -14.95 -24.51 -14.17 -21.36 -7.01 -7.98 -6.81 -6.49 -21.00 -27.33 -9.33 -14.88 47.84 58.28 46.39 59.20 50.50 69.53 50.30 70.62 29.32 42.99 36.27 50.72 -8.79 -8.79 -6.56 -6.56 -3.51 -3.51 -3.11 -3.11 3.68 3.68 8.40 8.40 Average Peak Average Peak Average Peak Average Peak Average Peak Average Peak 242 242 100 100 229 229 229 229 100 100 370 370 324 324 239 239 354 354 354 354 235 235 217 217 FCC CLASS-B FCC CLASS-B (AVG) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBUV/m</th><th>Limit dBUV/m</th><th>Margin dB</th><th>SA reading dBUV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1218.50</td><td>39.05</td><td>54.00</td><td>-14.95</td><td>47.84</td><td>-8.79</td><td>Average</td><td>242</td><td>324</td></tr><tr><td>2</td><td>1218.50</td><td>49.49</td><td>74.00</td><td>-24.51</td><td>58.28</td><td>-8.79</td><td>Peak</td><td>242</td><td>324</td></tr><tr><td>3</td><td>1624.66</td><td>39.83</td><td>54.00</td><td>-14.17</td><td>46.39</td><td>-6.56</td><td>Average</td><td>100</td><td>239</td></tr><tr><td>4</td><td>1624.66</td><td>52.64</td><td>74.00</td><td>-21.36</td><td>59.20</td><td>-6.56</td><td>Peak</td><td>100</td><td>239</td></tr><tr><td>5</td><td>2390.00</td><td>46.99</td><td>54.00</td><td>-7.01</td><td>50.50</td><td>-3.51</td><td>Average</td><td>229</td><td>354</td></tr><tr><td>6</td><td>2390.00</td><td>66.02</td><td>74.00</td><td>-7.98</td><td>69.53</td><td>-3.51</td><td>Peak</td><td>229</td><td>354</td></tr><tr><td>7</td><td>2483.50</td><td>47.19</td><td>54.00</td><td>-6.81</td><td>50.30</td><td>-3.11</td><td>Average</td><td>229</td><td>354</td></tr><tr><td>8</td><td>2483.50</td><td>67.51</td><td>74.00</td><td>-6.49</td><td>70.62</td><td>-3.11</td><td>Peak</td><td>229</td><td>354</td></tr><tr><td>9</td><td>4874.00</td><td>33.00</td><td>54.00</td><td>-21.00</td><td>29.32</td><td>3.68</td><td>Average</td><td>100</td><td>235</td></tr><tr><td>10</td><td>4874.00</td><td>46.67</td><td>74.00</td><td>-27.33</td><td>42.99</td><td>3.68</td><td>Peak</td><td>100</td><td>235</td></tr><tr><td>11</td><td>7311.00</td><td>44.67</td><td>54.00</td><td>-9.33</td><td>36.27</td><td>8.40</td><td>Average</td><td>370</td><td>217</td></tr><tr><td>12</td><td>7311.00</td><td>59.12</td><td>74.00</td><td>-14.88</td><td>50.72</td><td>8.40</td><td>Peak</td><td>370</td><td>217</td></tr></table> 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).					Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1218.50	39.05	54.00	-14.95	47.84	-8.79	Average	242	324	2	1218.50	49.49	74.00	-24.51	58.28	-8.79	Peak	242	324	3	1624.66	39.83	54.00	-14.17	46.39	-6.56	Average	100	239	4	1624.66	52.64	74.00	-21.36	59.20	-6.56	Peak	100	239	5	2390.00	46.99	54.00	-7.01	50.50	-3.51	Average	229	354	6	2390.00	66.02	74.00	-7.98	69.53	-3.51	Peak	229	354	7	2483.50	47.19	54.00	-6.81	50.30	-3.11	Average	229	354	8	2483.50	67.51	74.00	-6.49	70.62	-3.11	Peak	229	354	9	4874.00	33.00	54.00	-21.00	29.32	3.68	Average	100	235	10	4874.00	46.67	74.00	-27.33	42.99	3.68	Peak	100	235	11	7311.00	44.67	54.00	-9.33	36.27	8.40	Average	370	217	12	7311.00	59.12	74.00	-14.88	50.72	8.40	Peak	370	217
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																																												
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6	2390.00	66.02	74.00	-7.98	69.53	-3.51	Peak	229	354																																																																																																																												
7	2483.50	47.19	54.00	-6.81	50.30	-3.11	Average	229	354																																																																																																																												
8	2483.50	67.51	74.00	-6.49	70.62	-3.11	Peak	229	354																																																																																																																												
9	4874.00	33.00	54.00	-21.00	29.32	3.68	Average	100	235																																																																																																																												
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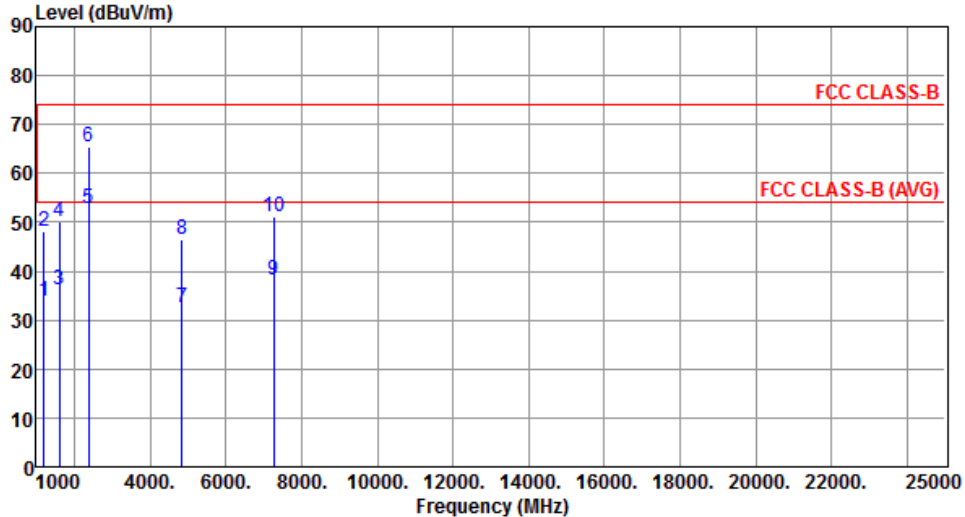
Modulation	HT20	Test Freq. (MHz)	2437																																																																																																																																																						
Polarization	Vertical																																																																																																																																																								
Level (dBuV/m) 1 2 3 4 5 6 7 8 9 10 11 12 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) FCC CLASS-B FCC CLASS-B (AVG) <table><tr><th></th><th>Freq.</th><th>Emission</th><th>Limit</th><th>Margin</th><th>SA</th><th>Factor</th><th>Remark</th><th>ANT</th><th>Turn</th></tr><tr><th></th><th>MHz</th><th>level</th><th>dBuV/m</th><th>dB</th><th>reading</th><th>dB</th><th></th><th>High</th><th>Table</th></tr><tr><th></th><th></th><th>dBuV/m</th><th></th><th></th><th>dBuV</th><th></th><th></th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>1218.50</td><td>38.79</td><td>54.00</td><td>-15.21</td><td>47.58</td><td>-8.79</td><td>Average</td><td>100</td><td>272</td></tr><tr><td>2</td><td>1218.50</td><td>49.01</td><td>74.00</td><td>-24.99</td><td>57.80</td><td>-8.79</td><td>Peak</td><td>100</td><td>272</td></tr><tr><td>3</td><td>1624.66</td><td>39.56</td><td>54.00</td><td>-14.44</td><td>46.12</td><td>-6.56</td><td>Average</td><td>100</td><td>220</td></tr><tr><td>4</td><td>1624.66</td><td>51.04</td><td>74.00</td><td>-22.96</td><td>57.60</td><td>-6.56</td><td>Peak</td><td>100</td><td>220</td></tr><tr><td>5</td><td>2390.00</td><td>41.27</td><td>54.00</td><td>-12.73</td><td>44.78</td><td>-3.51</td><td>Average</td><td>100</td><td>237</td></tr><tr><td>6</td><td>2390.00</td><td>58.21</td><td>74.00</td><td>-15.79</td><td>61.72</td><td>-3.51</td><td>Peak</td><td>100</td><td>237</td></tr><tr><td>7</td><td>2483.50</td><td>41.09</td><td>54.00</td><td>-12.91</td><td>44.20</td><td>-3.11</td><td>Average</td><td>100</td><td>237</td></tr><tr><td>8</td><td>2483.50</td><td>58.23</td><td>74.00</td><td>-15.77</td><td>61.34</td><td>-3.11</td><td>Peak</td><td>100</td><td>237</td></tr><tr><td>9</td><td>4874.00</td><td>33.29</td><td>54.00</td><td>-20.71</td><td>29.61</td><td>3.68</td><td>Average</td><td>100</td><td>245</td></tr><tr><td>10</td><td>4874.00</td><td>46.26</td><td>74.00</td><td>-27.74</td><td>42.58</td><td>3.68</td><td>Peak</td><td>100</td><td>245</td></tr><tr><td>11</td><td>7311.00</td><td>46.92</td><td>54.00</td><td>-7.08</td><td>38.52</td><td>8.40</td><td>Average</td><td>100</td><td>262</td></tr><tr><td>12</td><td>7311.00</td><td>61.12</td><td>74.00</td><td>-12.88</td><td>52.72</td><td>8.40</td><td>Peak</td><td>100</td><td>262</td></tr></table>					Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn		MHz	level	dBuV/m	dB	reading	dB		High	Table			dBuV/m			dBuV			cm	deg	1	1218.50	38.79	54.00	-15.21	47.58	-8.79	Average	100	272	2	1218.50	49.01	74.00	-24.99	57.80	-8.79	Peak	100	272	3	1624.66	39.56	54.00	-14.44	46.12	-6.56	Average	100	220	4	1624.66	51.04	74.00	-22.96	57.60	-6.56	Peak	100	220	5	2390.00	41.27	54.00	-12.73	44.78	-3.51	Average	100	237	6	2390.00	58.21	74.00	-15.79	61.72	-3.51	Peak	100	237	7	2483.50	41.09	54.00	-12.91	44.20	-3.11	Average	100	237	8	2483.50	58.23	74.00	-15.77	61.34	-3.11	Peak	100	237	9	4874.00	33.29	54.00	-20.71	29.61	3.68	Average	100	245	10	4874.00	46.26	74.00	-27.74	42.58	3.68	Peak	100	245	11	7311.00	46.92	54.00	-7.08	38.52	8.40	Average	100	262	12	7311.00	61.12	74.00	-12.88	52.72	8.40	Peak	100	262
	Freq.	Emission	Limit	Margin	SA	Factor	Remark	ANT	Turn																																																																																																																																																
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6	2390.00	58.21	74.00	-15.79	61.72	-3.51	Peak	100	237																																																																																																																																																
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8	2483.50	58.23	74.00	-15.77	61.34	-3.11	Peak	100	237																																																																																																																																																
9	4874.00	33.29	54.00	-20.71	29.61	3.68	Average	100	245																																																																																																																																																
10	4874.00	46.26	74.00	-27.74	42.58	3.68	Peak	100	245																																																																																																																																																
11	7311.00	46.92	54.00	-7.08	38.52	8.40	Average	100	262																																																																																																																																																
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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) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 2 4 3 5 8 7 10 9 FCC CLASS-B FCC CLASS-B (AVG) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1231.00</td><td>36.18</td><td>54.00</td><td>-17.82</td><td>44.89</td><td>-8.71</td><td>Average</td><td>256</td><td>337</td></tr><tr><td>2</td><td>1231.00</td><td>47.76</td><td>74.00</td><td>-26.24</td><td>56.47</td><td>-8.71</td><td>Peak</td><td>256</td><td>337</td></tr><tr><td>3</td><td>1641.33</td><td>36.75</td><td>54.00</td><td>-17.25</td><td>43.24</td><td>-6.49</td><td>Average</td><td>100</td><td>235</td></tr><tr><td>4</td><td>1641.33</td><td>49.23</td><td>74.00</td><td>-24.77</td><td>55.72</td><td>-6.49</td><td>Peak</td><td>100</td><td>235</td></tr><tr><td>5</td><td>2483.50</td><td>49.09</td><td>54.00</td><td>-4.91</td><td>52.20</td><td>-3.11</td><td>Average</td><td>194</td><td>336</td></tr><tr><td>6</td><td>2483.50</td><td>66.79</td><td>74.00</td><td>-7.21</td><td>69.90</td><td>-3.11</td><td>Peak</td><td>194</td><td>336</td></tr><tr><td>7</td><td>4924.00</td><td>33.54</td><td>54.00</td><td>-20.46</td><td>29.69</td><td>3.85</td><td>Average</td><td>100</td><td>233</td></tr><tr><td>8</td><td>4924.00</td><td>46.52</td><td>74.00</td><td>-27.48</td><td>42.67</td><td>3.85</td><td>Peak</td><td>100</td><td>233</td></tr><tr><td>9</td><td>7386.00</td><td>40.46</td><td>54.00</td><td>-13.54</td><td>31.90</td><td>8.56</td><td>Average</td><td>375</td><td>205</td></tr><tr><td>10</td><td>7386.00</td><td>55.46</td><td>74.00</td><td>-18.54</td><td>46.90</td><td>8.56</td><td>Peak</td><td>375</td><td>205</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1231.00	36.18	54.00	-17.82	44.89	-8.71	Average	256	337	2	1231.00	47.76	74.00	-26.24	56.47	-8.71	Peak	256	337	3	1641.33	36.75	54.00	-17.25	43.24	-6.49	Average	100	235	4	1641.33	49.23	74.00	-24.77	55.72	-6.49	Peak	100	235	5	2483.50	49.09	54.00	-4.91	52.20	-3.11	Average	194	336	6	2483.50	66.79	74.00	-7.21	69.90	-3.11	Peak	194	336	7	4924.00	33.54	54.00	-20.46	29.69	3.85	Average	100	233	8	4924.00	46.52	74.00	-27.48	42.67	3.85	Peak	100	233	9	7386.00	40.46	54.00	-13.54	31.90	8.56	Average	375	205	10	7386.00	55.46	74.00	-18.54	46.90	8.56	Peak	375	205
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
1	1231.00	36.18	54.00	-17.82	44.89	-8.71	Average	256	337																																																																																																								
2	1231.00	47.76	74.00	-26.24	56.47	-8.71	Peak	256	337																																																																																																								
3	1641.33	36.75	54.00	-17.25	43.24	-6.49	Average	100	235																																																																																																								
4	1641.33	49.23	74.00	-24.77	55.72	-6.49	Peak	100	235																																																																																																								
5	2483.50	49.09	54.00	-4.91	52.20	-3.11	Average	194	336																																																																																																								
6	2483.50	66.79	74.00	-7.21	69.90	-3.11	Peak	194	336																																																																																																								
7	4924.00	33.54	54.00	-20.46	29.69	3.85	Average	100	233																																																																																																								
8	4924.00	46.52	74.00	-27.48	42.67	3.85	Peak	100	233																																																																																																								
9	7386.00	40.46	54.00	-13.54	31.90	8.56	Average	375	205																																																																																																								
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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	Vertical																																																																																																																
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
1	1231.00	36.16	54.00	-17.84	44.87	-8.71	Average	110	273																																																																																																								
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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).																																																																																																																	

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

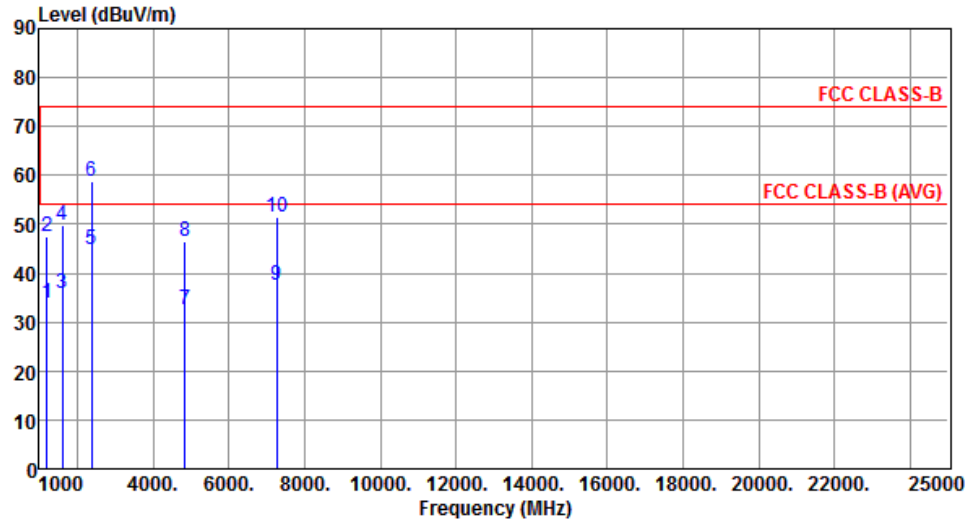
Modulation	HT40	Test Freq. (MHz)	2422
Polarization	Horizontal		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1211.00	33.74	54.00	-20.26	42.58	-8.84	Average	100	309
2	1211.00	48.03	74.00	-25.97	56.87	-8.84	Peak	100	309
3	1614.66	36.08	54.00	-17.92	42.68	-6.60	Average	100	237
4	1614.66	50.27	74.00	-23.73	56.87	-6.60	Peak	100	237
5	2390.00	52.66	54.00	-1.34	56.17	-3.51	Average	256	331
6	2390.00	65.28	74.00	-8.72	68.79	-3.51	Peak	256	331
7	4844.00	32.56	54.00	-21.44	28.96	3.60	Average	100	232
8	4844.00	46.35	74.00	-27.65	42.75	3.60	Peak	100	232
9	7266.00	38.14	54.00	-15.86	29.85	8.29	Average	100	225
10	7266.00	51.13	74.00	-22.87	42.84	8.29	Peak	100	225

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		



The spectrum plot shows the emission level in dBuV/m across a frequency range from 1000 to 25000 MHz. Two horizontal red lines represent the FCC CLASS-B limits: the main limit at 74 dBuV/m and the average limit at 54 dBuV/m. Ten specific emission peaks are identified and labeled with numbers 1 through 10. The peaks are distributed across the frequency range, with the highest peak (6) reaching nearly 60 dBuV/m. The table below provides the detailed data for each peak.

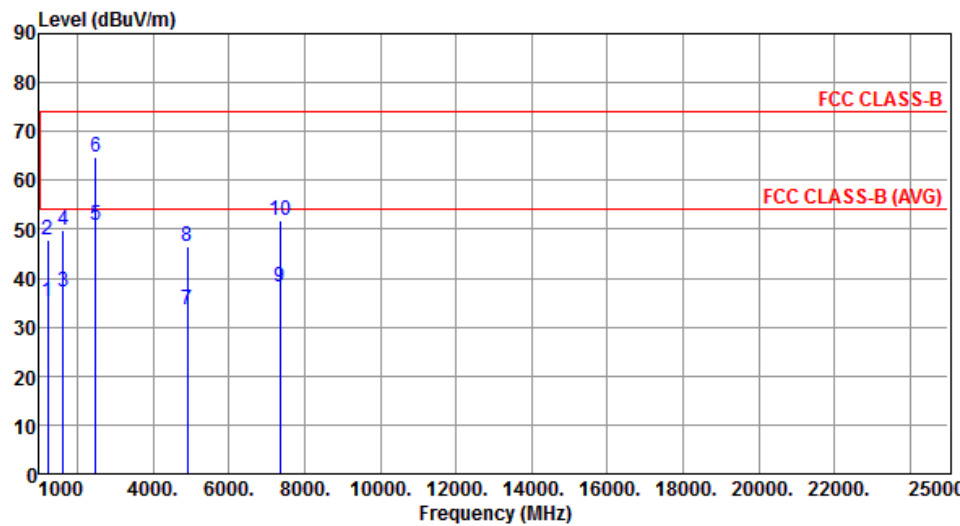
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	1211.00	33.85	54.00	-20.15	42.69	-8.84	Average	100	273
2	1211.00	47.63	74.00	-26.37	56.47	-8.84	Peak	100	273
3	1614.66	35.95	54.00	-18.05	42.55	-6.60	Average	100	228
4	1614.66	49.88	74.00	-24.12	56.48	-6.60	Peak	100	228
5	2390.00	44.72	54.00	-9.28	48.23	-3.51	Average	100	234
6	2390.00	58.88	74.00	-15.12	62.39	-3.51	Peak	100	234
7	4844.00	32.57	54.00	-21.43	28.97	3.60	Average	100	235
8	4844.00	46.57	74.00	-27.43	42.97	3.60	Peak	100	235
9	7266.00	37.53	54.00	-16.47	29.24	8.29	Average	100	253
10	7266.00	51.39	74.00	-22.61	43.10	8.29	Peak	100	253

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	Horizontal		
Level (dBuV/m) </			

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical		
Level (dBuV/m)			

Modulation	HT40		Test Freq. (MHz)		2452	
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	1226.00	35.15	54.00	-18.85	43.89	-8.74	Average	260	355
2	1226.00	47.83	74.00	-26.17	56.57	-8.74	Peak	260	355
3	1634.66	37.22	54.00	-16.78	43.74	-6.52	Average	100	231
4	1634.66	49.69	74.00	-24.31	56.21	-6.52	Peak	100	231
5	2483.50	50.91	54.00	-3.09	54.02	-3.11	Average	252	354
6	2483.50	64.81	74.00	-9.19	67.92	-3.11	Peak	252	354
7	4904.00	33.62	54.00	-20.38	29.83	3.79	Average	100	232
8	4904.00	46.45	74.00	-27.55	42.66	3.79	Peak	100	232
9	7356.00	38.04	54.00	-15.96	29.53	8.51	Average	100	211
10	7356.00	51.74	74.00	-22.26	43.23	8.51	Peak	100	211

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

*Factor includes antenna factor , cable loss and amplifier gain

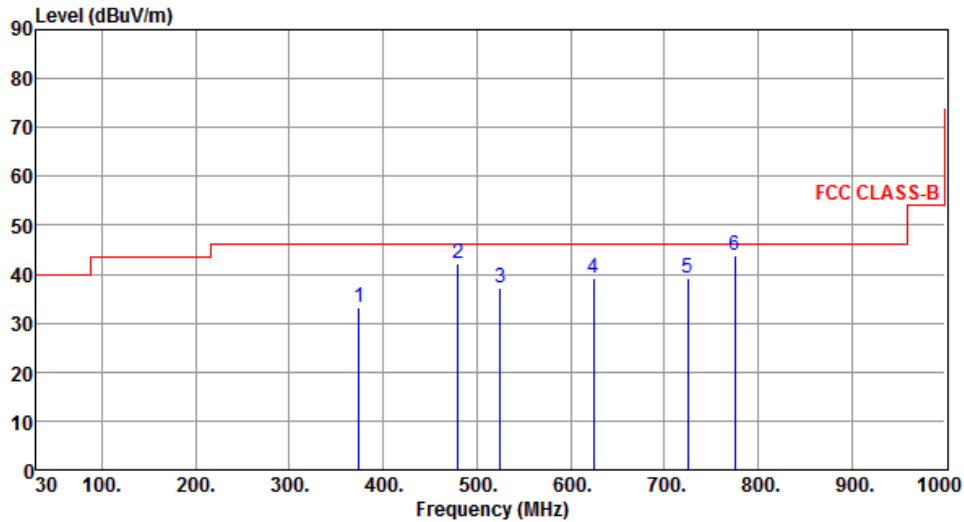
Note 2: Margin (dB) = Emission level (dBUV/m) – Limit (dBUV/m).

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Vertical		
Level (dBuV/m) </			

Test Configuration 3

3.5.14 Transmitter Radiated Unwanted Emissions (Below 1GHz)

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



The graph displays the radiated unwanted emissions for a transmitter. The y-axis represents the 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 to 100 MHz, 45 dBuV/m from 100 to 200 MHz, and 50 dBuV/m from 200 to 1000 MHz. Six test results are plotted as blue vertical lines, labeled 1 through 6, corresponding to the data in the table below.

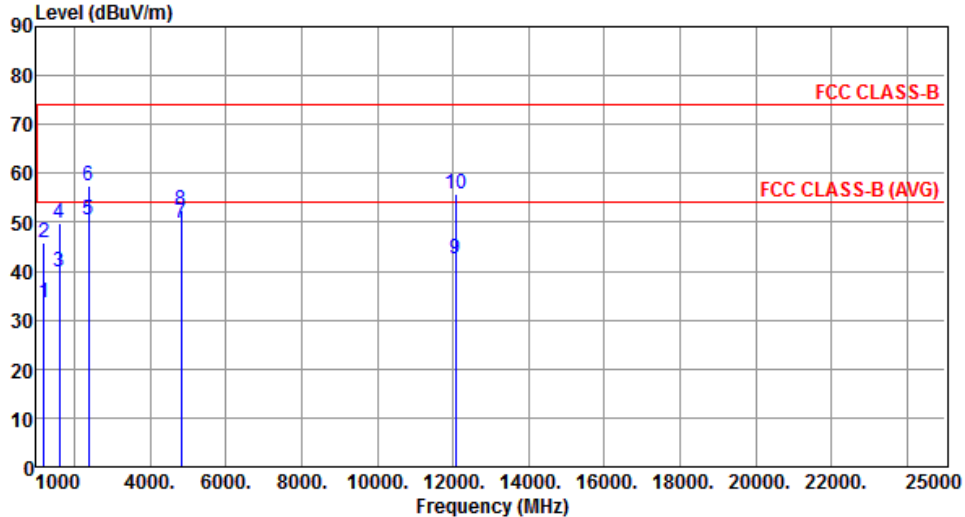
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg
1	374.35	33.31	46.00	-12.69	39.27	-5.96	Peak	---	---
2	480.08	42.01	46.00	-3.99	45.59	-3.58	Peak	---	---
3	524.70	37.10	46.00	-8.90	39.85	-2.75	Peak	---	---
4	624.61	39.34	46.00	-6.66	39.79	-0.45	Peak	---	---
5	725.49	39.06	46.00	-6.94	37.79	1.27	Peak	---	---
6	775.02	43.93	46.00	-2.07	41.87	2.06	QP	100	149

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								
Level (dBuV/m)									

3.5.15 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	1206.00	33.47	54.00	-20.53	42.34	-8.87	Average	100	20
2	1206.00	45.78	74.00	-28.22	54.65	-8.87	Peak	100	20
3	1608.00	39.82	54.00	-14.18	46.44	-6.62	Average	100	111
4	1608.00	49.78	74.00	-24.22	56.40	-6.62	Peak	100	111
5	2390.00	50.56	54.00	-3.44	54.07	-3.51	Average	365	349
6	2390.00	57.33	74.00	-16.67	60.84	-3.51	Peak	365	349
7	4824.00	49.68	54.00	-4.32	46.15	3.53	Average	331	339
8	4824.00	52.64	74.00	-21.36	49.11	3.53	Peak	331	339
9	12060.00	42.56	54.00	-11.44	29.24	13.32	Average	100	50
10	12060.00	55.68	74.00	-18.32	42.36	13.32	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		
Level (dBuV/m)			

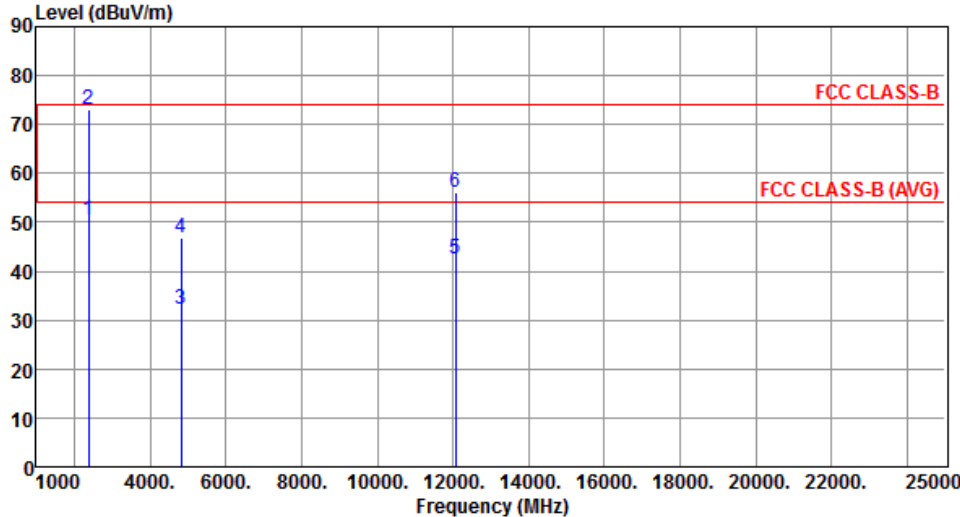
Modulation	11b	Test Freq. (MHz)	2437
Polarization	Vertical		
Level (dBuV/m) </			

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

Modulation	11b	Test Freq. (MHz)	2462																																																																																																														
Polarization	Vertical																																																																																																																
Level (dBuV/m) 1 2 3 4 5 6 7 8 9 10 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) FCC CLASS-B FCC CLASS-B (AVG) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1231.00</td><td>33.41</td><td>54.00</td><td>-20.59</td><td>42.12</td><td>-8.71</td><td>Average</td><td>100</td><td>200</td></tr><tr><td>2</td><td>1231.00</td><td>46.43</td><td>74.00</td><td>-27.57</td><td>55.14</td><td>-8.71</td><td>Peak</td><td>100</td><td>200</td></tr><tr><td>3</td><td>1641.33</td><td>36.42</td><td>54.00</td><td>-17.58</td><td>42.91</td><td>-6.49</td><td>Average</td><td>185</td><td>318</td></tr><tr><td>4</td><td>1641.33</td><td>49.16</td><td>74.00</td><td>-24.84</td><td>55.65</td><td>-6.49</td><td>Peak</td><td>185</td><td>318</td></tr><tr><td>5</td><td>2483.50</td><td>45.53</td><td>54.00</td><td>-8.47</td><td>48.64</td><td>-3.11</td><td>Average</td><td>100</td><td>103</td></tr><tr><td>6</td><td>2483.50</td><td>56.69</td><td>74.00</td><td>-17.31</td><td>59.80</td><td>-3.11</td><td>Peak</td><td>100</td><td>103</td></tr><tr><td>7</td><td>4924.00</td><td>47.04</td><td>54.00</td><td>-6.96</td><td>43.19</td><td>3.85</td><td>Average</td><td>100</td><td>106</td></tr><tr><td>8</td><td>4924.00</td><td>50.99</td><td>74.00</td><td>-23.01</td><td>47.14</td><td>3.85</td><td>Peak</td><td>100</td><td>106</td></tr><tr><td>9</td><td>7386.00</td><td>48.68</td><td>54.00</td><td>-5.32</td><td>40.12</td><td>8.56</td><td>Average</td><td>384</td><td>123</td></tr><tr><td>10</td><td>7386.00</td><td>55.62</td><td>74.00</td><td>-18.38</td><td>47.06</td><td>8.56</td><td>Peak</td><td>384</td><td>123</td></tr></table> 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).					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1231.00	33.41	54.00	-20.59	42.12	-8.71	Average	100	200	2	1231.00	46.43	74.00	-27.57	55.14	-8.71	Peak	100	200	3	1641.33	36.42	54.00	-17.58	42.91	-6.49	Average	185	318	4	1641.33	49.16	74.00	-24.84	55.65	-6.49	Peak	185	318	5	2483.50	45.53	54.00	-8.47	48.64	-3.11	Average	100	103	6	2483.50	56.69	74.00	-17.31	59.80	-3.11	Peak	100	103	7	4924.00	47.04	54.00	-6.96	43.19	3.85	Average	100	106	8	4924.00	50.99	74.00	-23.01	47.14	3.85	Peak	100	106	9	7386.00	48.68	54.00	-5.32	40.12	8.56	Average	384	123	10	7386.00	55.62	74.00	-18.38	47.06	8.56	Peak	384	123
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																								
1	1231.00	33.41	54.00	-20.59	42.12	-8.71	Average	100	200																																																																																																								
2	1231.00	46.43	74.00	-27.57	55.14	-8.71	Peak	100	200																																																																																																								
3	1641.33	36.42	54.00	-17.58	42.91	-6.49	Average	185	318																																																																																																								
4	1641.33	49.16	74.00	-24.84	55.65	-6.49	Peak	185	318																																																																																																								
5	2483.50	45.53	54.00	-8.47	48.64	-3.11	Average	100	103																																																																																																								
6	2483.50	56.69	74.00	-17.31	59.80	-3.11	Peak	100	103																																																																																																								
7	4924.00	47.04	54.00	-6.96	43.19	3.85	Average	100	106																																																																																																								
8	4924.00	50.99	74.00	-23.01	47.14	3.85	Peak	100	106																																																																																																								
9	7386.00	48.68	54.00	-5.32	40.12	8.56	Average	384	123																																																																																																								
10	7386.00	55.62	74.00	-18.38	47.06	8.56	Peak	384	123																																																																																																								

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

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

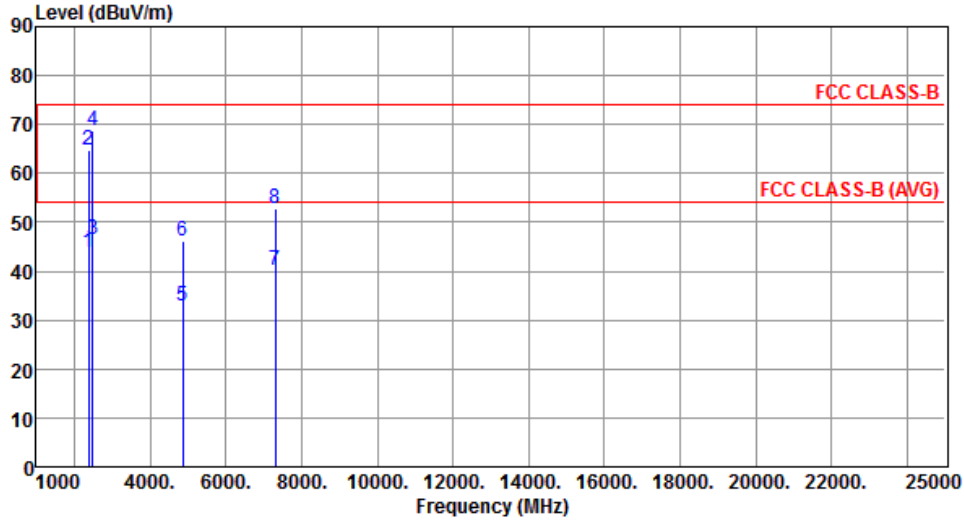


	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	50.45	54.00	-3.55	53.96	-3.51	Average	362	4
2	2390.00	72.96	74.00	-1.04	76.47	-3.51	Peak	362	4
3	4824.00	32.18	54.00	-21.82	28.65	3.53	Average	100	240
4	4824.00	46.74	74.00	-27.26	43.21	3.53	Peak	100	240
5	12060.00	42.63	54.00	-11.37	29.31	13.32	Average	100	359
6	12060.00	56.01	74.00	-17.99	42.69	13.32	Peak	100	359

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		



	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	43.87	54.00	-10.13	47.38	-3.51	Average	332	354
2	2390.00	64.85	74.00	-9.15	68.36	-3.51	Peak	332	354
3	2483.50	46.61	54.00	-7.39	49.72	-3.11	Average	332	354
4	2483.50	68.79	74.00	-5.21	71.90	-3.11	Peak	332	354
5	4874.00	32.75	54.00	-21.25	29.07	3.68	Average	100	233
6	4874.00	46.06	74.00	-27.94	42.38	3.68	Peak	100	233
7	7311.00	40.34	54.00	-13.66	31.94	8.40	Average	232	108
8	7311.00	52.85	74.00	-21.15	44.45	8.40	Peak	232	108

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

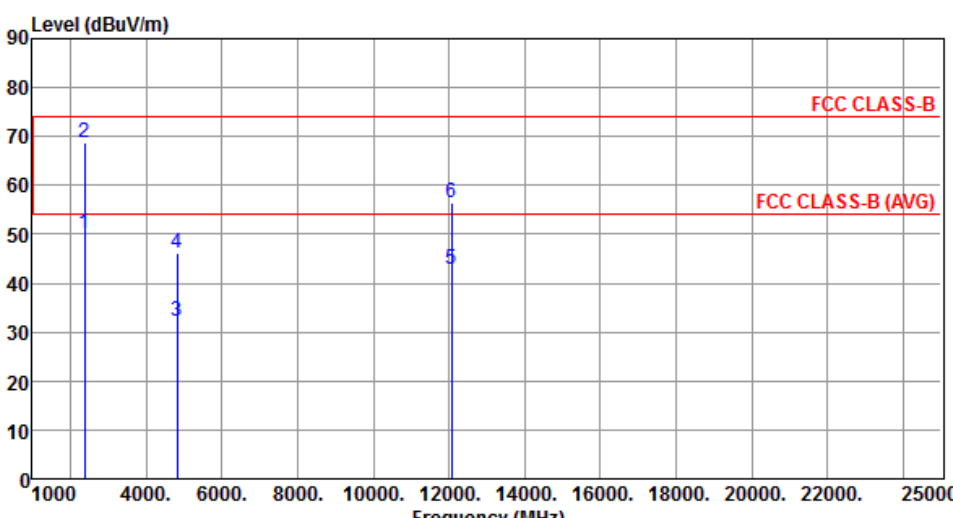
Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical		
Level (dBUV/m) </			

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

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

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

Modulation	HT20	Test Freq. (MHz)	2412
Polarization	Horizontal		

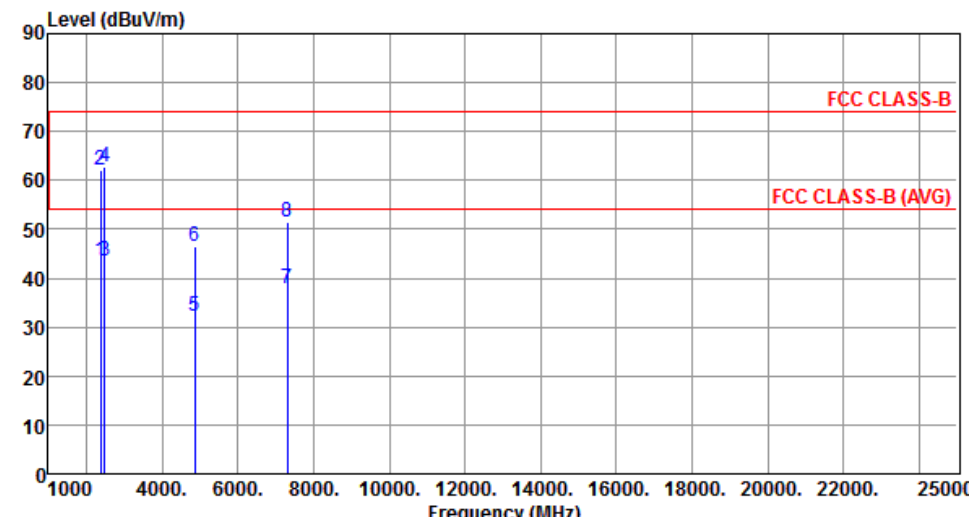


	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2390.00	50.16	54.00	-3.84	53.67	-3.51	Average	356	5
2	2390.00	68.68	74.00	-5.32	72.19	-3.51	Peak	356	5
3	4824.00	32.25	54.00	-21.75	28.72	3.53	Average	100	241
4	4824.00	46.21	74.00	-27.79	42.68	3.53	Peak	100	241
5	12060.00	42.86	54.00	-11.14	29.54	13.32	Average	100	0
6	12060.00	56.53	74.00	-17.47	43.21	13.32	Peak	100	0

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)			

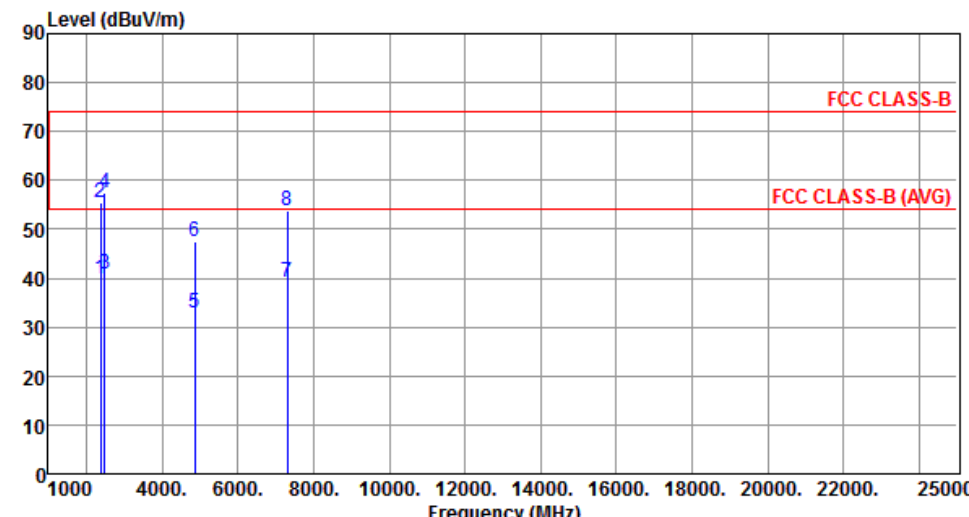
Modulation	HT20	Test Freq. (MHz)	2437
Polarization	Horizontal		



	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	43.57	54.00	-10.43	47.08	-3.51	Average	348	356
2	2390.00	62.14	74.00	-11.86	65.65	-3.51	Peak	348	356
3	2483.50	43.57	54.00	-10.43	46.68	-3.11	Average	348	356
4	2483.50	62.66	74.00	-11.34	65.77	-3.11	Peak	348	356
5	4874.00	32.36	54.00	-21.64	28.68	3.68	Average	100	257
6	4874.00	46.38	74.00	-27.62	42.70	3.68	Peak	100	257
7	7311.00	37.74	54.00	-16.26	29.34	8.40	Average	100	108
8	7311.00	51.40	74.00	-22.60	43.00	8.40	Peak	100	108

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

Modulation	HT20	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	39.96	54.00	-14.04	43.47	-3.51	Average	100	85
2	2390.00	55.60	74.00	-18.40	59.11	-3.51	Peak	100	85
3	2483.50	40.70	54.00	-13.30	43.81	-3.11	Average	100	85
4	2483.50	57.46	74.00	-16.54	60.57	-3.11	Peak	100	85
5	4874.00	32.90	54.00	-21.10	29.22	3.68	Average	100	75
6	4874.00	47.58	74.00	-26.42	43.90	3.68	Peak	100	75
7	7311.00	39.29	54.00	-14.71	30.89	8.40	Average	100	117
8	7311.00	53.94	74.00	-20.06	45.54	8.40	Peak	100	117

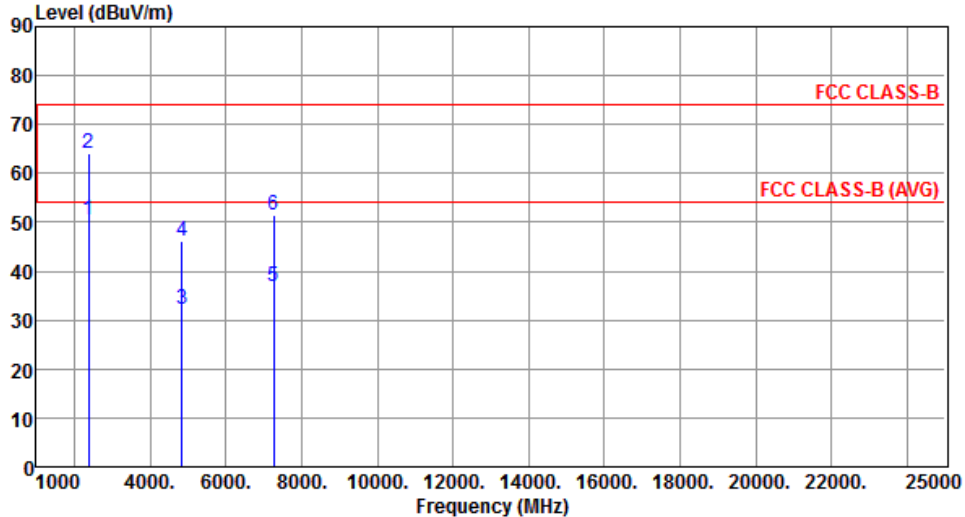
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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

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

3.5.18 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	50.52	54.00	-3.48	54.03	-3.51	Average	361	3
2	2390.00	64.10	74.00	-9.90	67.61	-3.51	Peak	361	3
3	4844.00	32.34	54.00	-21.66	28.74	3.60	Average	100	231
4	4844.00	46.27	74.00	-27.73	42.67	3.60	Peak	100	231
5	7266.00	36.75	54.00	-17.25	28.46	8.29	Average	100	101
6	7266.00	51.39	74.00	-22.61	43.10	8.29	Peak	100	101

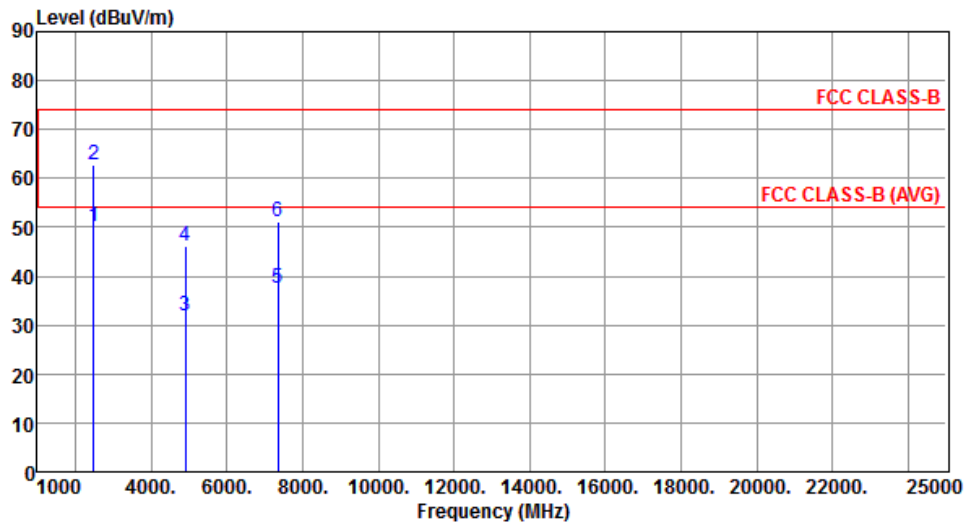
Note 1: Emission Level (dBuV/m) = SA Reading (dBuV/m) + Factor* (dB)
*Factor includes antenna factor , cable loss and amplifier gain
Note 2: Margin (dB) = Emission level (dBuV/m) – Limit (dBuV/m).

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

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal		
Level (dBUV/m) </			

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical		
Level (dBUV/m) </			

Modulation	HT40	Test Freq. (MHz)	2452
Polarization	Horizontal		



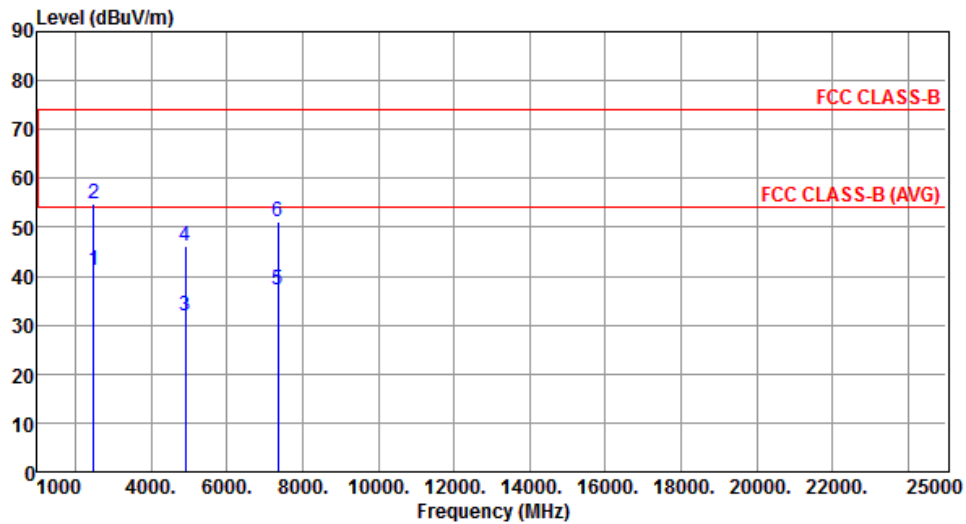
	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	2483.50	50.13	54.00	-3.87	53.24	-3.11	Average	328	4
2	2483.50	62.76	74.00	-11.24	65.87	-3.11	Peak	328	4
3	4904.00	32.02	54.00	-21.98	28.23	3.79	Average	100	235
4	4904.00	46.23	74.00	-27.77	42.44	3.79	Peak	100	235
5	7356.00	37.47	54.00	-16.53	28.96	8.51	Average	100	104
6	7356.00	51.30	74.00	-22.70	42.79	8.51	Peak	100	104

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	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	41.28	54.00	-12.72	44.39	-3.11	Average	100	77
2	2483.50	54.77	74.00	-19.23	57.88	-3.11	Peak	100	77
3	4904.00	32.02	54.00	-21.98	28.23	3.79	Average	100	80
4	4904.00	46.25	74.00	-27.75	42.46	3.79	Peak	100	80
5	7356.00	37.08	54.00	-16.92	28.57	8.51	Average	100	110
6	7356.00	51.18	74.00	-22.82	42.67	8.51	Peak	100	110

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

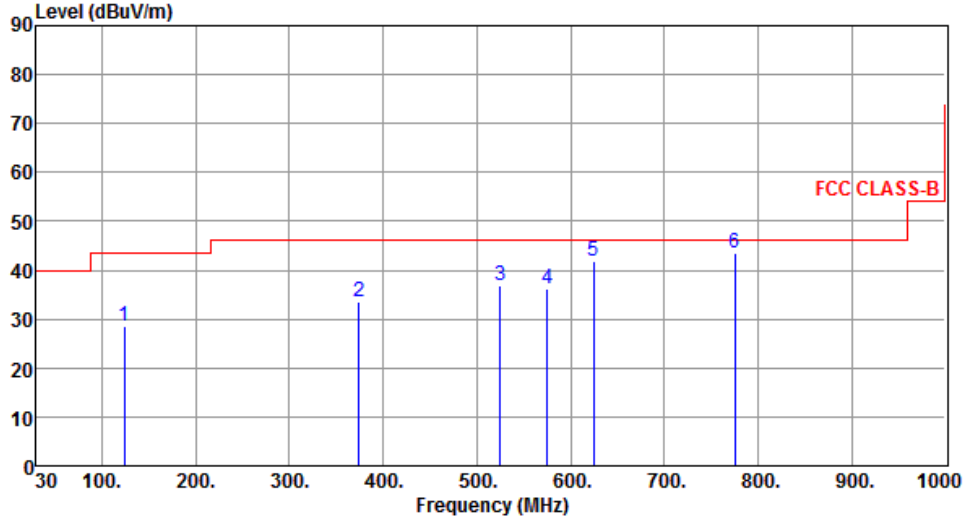
*Factor includes antenna factor , cable loss and amplifier gain

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

Test Configuration 4

3.5.19 Transmitter Radiated Unwanted Emissions (Below 1GHz)

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

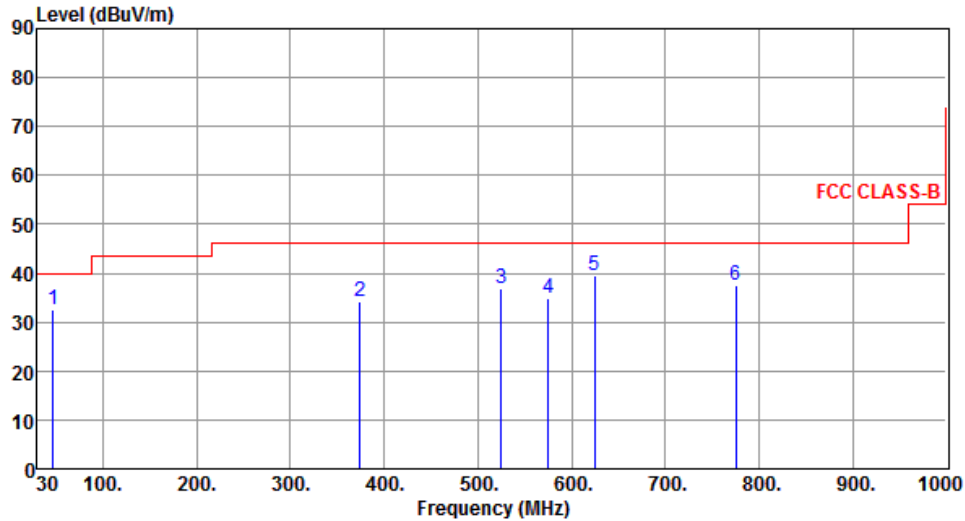


The graph displays the radiated unwanted emissions for a transmitter. The y-axis represents the Level in dBuV/m, ranging from 0 to 90. The x-axis represents the Frequency in MHz, ranging from 30 to 1000. A red line indicates the FCC CLASS-B limit, which is 40 dBuV/m from 30 to 100 MHz, 45 dBuV/m from 100 to 1000 MHz, and 55 dBuV/m from 1000 to 10000 MHz. Six measured peaks are labeled with numbers 1 through 6, corresponding to the data 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	124.09	28.52	43.50	-14.98	38.78	-10.26	Peak	---	---
2	374.35	33.42	46.00	-12.58	39.38	-5.96	Peak	---	---
3	524.70	37.03	46.00	-8.97	39.78	-2.75	Peak	---	---
4	575.14	36.25	46.00	-9.75	37.72	-1.47	Peak	---	---
5	624.61	41.85	46.00	-4.15	42.30	-0.45	Peak	---	---
6	774.99	43.56	46.00	-2.44	41.51	2.05	QP	100	143

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		



	Freq. MHz	Emission level dBUV/m	Limit dBUV/m	Margin dB	SA reading dBUV	Factor dB	Remark	ANT High cm	Turn Table deg
1	46.49	32.42	40.00	-7.58	40.53	-8.11	Peak	---	---
2	374.35	34.31	46.00	-11.69	40.27	-5.96	Peak	---	---
3	524.70	36.92	46.00	-9.08	39.67	-2.75	Peak	---	---
4	575.14	34.95	46.00	-11.05	36.42	-1.47	Peak	---	---
5	624.61	39.66	46.00	-6.34	40.11	-0.45	Peak	---	---
6	774.96	37.43	46.00	-8.57	35.38	2.05	Peak	---	---

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

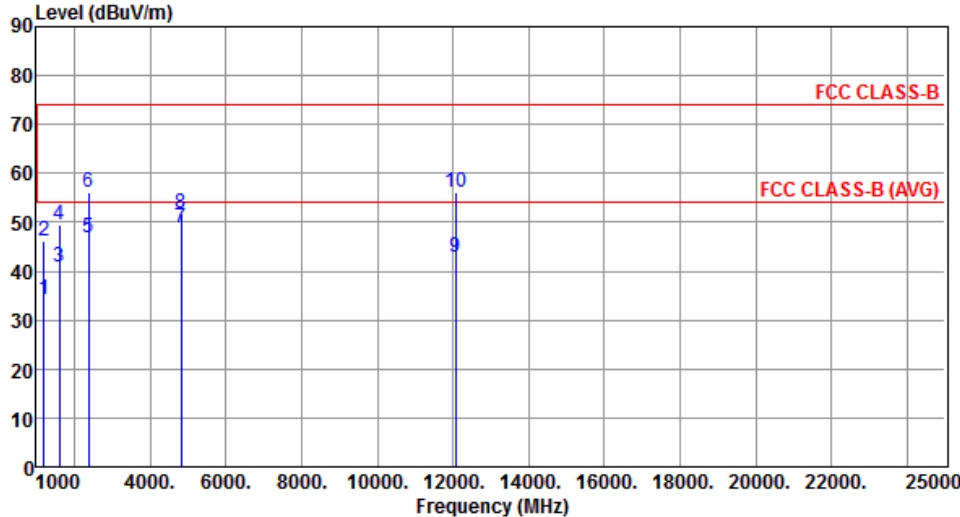
*Factor includes antenna factor , cable loss and amplifier gain

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.

3.5.20 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	1206.00	34.07	54.00	-19.93	42.94	-8.87	Average	100	335
2	1206.00	46.09	74.00	-27.91	54.96	-8.87	Peak	100	335
3	1608.00	40.95	54.00	-13.05	47.57	-6.62	Average	186	106
4	1608.00	49.50	74.00	-24.50	56.12	-6.62	Peak	186	106
5	2390.00	46.70	54.00	-7.30	50.21	-3.51	Average	137	196
6	2390.00	56.02	74.00	-17.98	59.53	-3.51	Peak	137	196
7	4824.00	48.66	54.00	-5.34	45.13	3.53	Average	195	231
8	4824.00	51.81	74.00	-22.19	48.28	3.53	Peak	195	231
9	12060.00	42.73	54.00	-11.27	29.41	13.32	Average	100	30
10	12060.00	56.11	74.00	-17.89	42.79	13.32	Peak	100	30

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																																																																																																																																				
Level (dBuV/m) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 1 2 3 4 5 6 7 8 9 10 11 12 FCC CLASS-B FCC CLASS-B (AVG) <table><tr><th></th><th>Freq. MHz</th><th>Emission level dBuV/m</th><th>Limit dBuV/m</th><th>Margin dB</th><th>SA reading dBuV</th><th>Factor dB</th><th>Remark</th><th>ANT High cm</th><th>Turn Table deg</th></tr><tr><td>1</td><td>1218.50</td><td>34.47</td><td>54.00</td><td>-19.53</td><td>43.26</td><td>-8.79</td><td>Average</td><td>100</td><td>330</td></tr><tr><td>2</td><td>1218.50</td><td>46.09</td><td>74.00</td><td>-27.91</td><td>54.88</td><td>-8.79</td><td>Peak</td><td>100</td><td>330</td></tr><tr><td>3</td><td>1624.66</td><td>39.23</td><td>54.00</td><td>-14.77</td><td>45.79</td><td>-6.56</td><td>Average</td><td>177</td><td>102</td></tr><tr><td>4</td><td>1624.66</td><td>48.04</td><td>74.00</td><td>-25.96</td><td>54.60</td><td>-6.56</td><td>Peak</td><td>177</td><td>102</td></tr><tr><td>5</td><td>2390.00</td><td>40.78</td><td>54.00</td><td>-13.22</td><td>44.29</td><td>-3.51</td><td>Average</td><td>357</td><td>19</td></tr><tr><td>6</td><td>2390.00</td><td>52.49</td><td>74.00</td><td>-21.51</td><td>56.00</td><td>-3.51</td><td>Peak</td><td>357</td><td>19</td></tr><tr><td>7</td><td>2483.50</td><td>39.58</td><td>54.00</td><td>-14.42</td><td>42.69</td><td>-3.11</td><td>Average</td><td>357</td><td>19</td></tr><tr><td>8</td><td>2483.50</td><td>53.45</td><td>74.00</td><td>-20.55</td><td>56.56</td><td>-3.11</td><td>Peak</td><td>357</td><td>19</td></tr><tr><td>9</td><td>4874.00</td><td>48.90</td><td>54.00</td><td>-5.10</td><td>45.22</td><td>3.68</td><td>Average</td><td>187</td><td>229</td></tr><tr><td>10</td><td>4874.00</td><td>52.02</td><td>74.00</td><td>-21.98</td><td>48.34</td><td>3.68</td><td>Peak</td><td>187</td><td>229</td></tr><tr><td>11</td><td>7311.00</td><td>52.83</td><td>54.00</td><td>-1.17</td><td>44.43</td><td>8.40</td><td>Average</td><td>184</td><td>228</td></tr><tr><td>12</td><td>7311.00</td><td>57.85</td><td>74.00</td><td>-16.15</td><td>49.45</td><td>8.40</td><td>Peak</td><td>184</td><td>228</td></tr></table>					Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg	1	1218.50	34.47	54.00	-19.53	43.26	-8.79	Average	100	330	2	1218.50	46.09	74.00	-27.91	54.88	-8.79	Peak	100	330	3	1624.66	39.23	54.00	-14.77	45.79	-6.56	Average	177	102	4	1624.66	48.04	74.00	-25.96	54.60	-6.56	Peak	177	102	5	2390.00	40.78	54.00	-13.22	44.29	-3.51	Average	357	19	6	2390.00	52.49	74.00	-21.51	56.00	-3.51	Peak	357	19	7	2483.50	39.58	54.00	-14.42	42.69	-3.11	Average	357	19	8	2483.50	53.45	74.00	-20.55	56.56	-3.11	Peak	357	19	9	4874.00	48.90	54.00	-5.10	45.22	3.68	Average	187	229	10	4874.00	52.02	74.00	-21.98	48.34	3.68	Peak	187	229	11	7311.00	52.83	54.00	-1.17	44.43	8.40	Average	184	228	12	7311.00	57.85	74.00	-16.15	49.45	8.40	Peak	184	228
	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																																												
1	1218.50	34.47	54.00	-19.53	43.26	-8.79	Average	100	330																																																																																																																												
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3	1624.66	39.23	54.00	-14.77	45.79	-6.56	Average	177	102																																																																																																																												
4	1624.66	48.04	74.00	-25.96	54.60	-6.56	Peak	177	102																																																																																																																												
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6	2390.00	52.49	74.00	-21.51	56.00	-3.51	Peak	357	19																																																																																																																												
7	2483.50	39.58	54.00	-14.42	42.69	-3.11	Average	357	19																																																																																																																												
8	2483.50	53.45	74.00	-20.55	56.56	-3.11	Peak	357	19																																																																																																																												
9	4874.00	48.90	54.00	-5.10	45.22	3.68	Average	187	229																																																																																																																												
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11	7311.00	52.83	54.00	-1.17	44.43	8.40	Average	184	228																																																																																																																												
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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).																																																																																																																																					

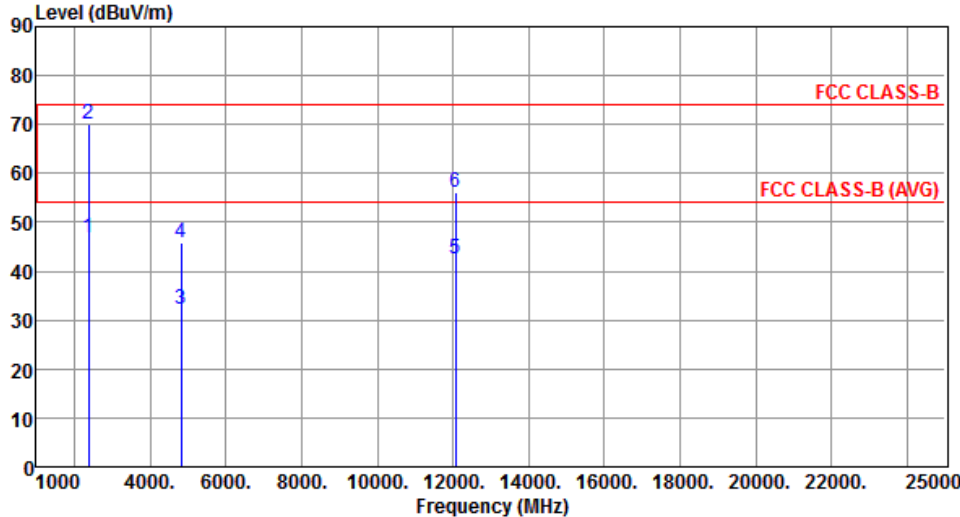
Modulation	11b	Test Freq. (MHz)	2437																																																																																																																																		
Polarization	Vertical																																																																																																																																				
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	Freq. MHz	Emission level dBuV/m	Limit dBuV/m	Margin dB	SA reading dBuV	Factor dB	Remark	ANT High cm	Turn Table deg																																																																																																																												
1	1218.50	35.13	54.00	-18.87	43.92	-8.79	Average	100	310																																																																																																																												
2	1218.50	46.03	74.00	-27.97	54.82	-8.79	Peak	100	310																																																																																																																												
3	1624.66	41.51	54.00	-12.49	48.07	-6.56	Average	107	116																																																																																																																												
4	1624.66	49.19	74.00	-24.81	55.75	-6.56	Peak	107	116																																																																																																																												
5	2390.00	39.27	54.00	-14.73	42.78	-3.51	Average	125	341																																																																																																																												
6	2390.00	52.77	74.00	-21.23	56.28	-3.51	Peak	125	341																																																																																																																												
7	2483.50	40.10	54.00	-13.90	43.21	-3.11	Average	125	341																																																																																																																												
8	2483.50	52.69	74.00	-21.31	55.80	-3.11	Peak	125	341																																																																																																																												
9	4874.00	48.19	54.00	-5.81	44.51	3.68	Average	197	288																																																																																																																												
10	4874.00	52.46	74.00	-21.54	48.78	3.68	Peak	197	288																																																																																																																												
11	7311.00	52.03	54.00	-1.97	43.63	8.40	Average	135	251																																																																																																																												
12	7311.00	57.41	74.00	-16.59	49.01	8.40	Peak	135	251																																																																																																																												

Modulation	11b	Test Freq. (MHz)	2462
Polarization	Horizontal		
Level (dBUV/m) 90 80 70 60 50 40 30 20 10 0 1000 4000 6000 8000 10000 12000 14000 16000 18000 20000 22000 25000 Frequency (MHz) 1 2 3 4 5 6 7 8 9 10 33.95 46.65 36.07 48.32 47.51 56.84 46.41 50.01 53.81 58.67 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 54.00 74.00 -20.05 -27.35 -17.93 -25.68 -6.49 -17.16 -7.59 -23.99 -0.19 -15.33 42.66 55.36 42.56 54.81 50.62 59.95 42.56 46.16 45.25 50.11 -8.71 -8.71 -6.49 -6.49 -3.11 -3.11 3.85 3.85 8.56 8.56 Average Peak Average Peak Average Peak Average Peak Average Peak 100 100 185 185 345 345 199 199 174 174 100 100 105 105 21 21 236 236 231 231 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)	2462
Polarization	Vertical		
Level (dBUV/m) </			

3.5.21 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	46.77	54.00	-7.23	50.28	-3.51	Average	367	9
2	2390.00	70.12	74.00	-3.88	73.63	-3.51	Peak	367	9
3	4824.00	32.08	54.00	-21.92	28.55	3.53	Average	100	208
4	4824.00	45.88	74.00	-28.12	42.35	3.53	Peak	100	208
5	12060.00	42.55	54.00	-11.45	29.23	13.32	Average	100	11
6	12060.00	56.17	74.00	-17.83	42.85	13.32	Peak	100	11

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)			

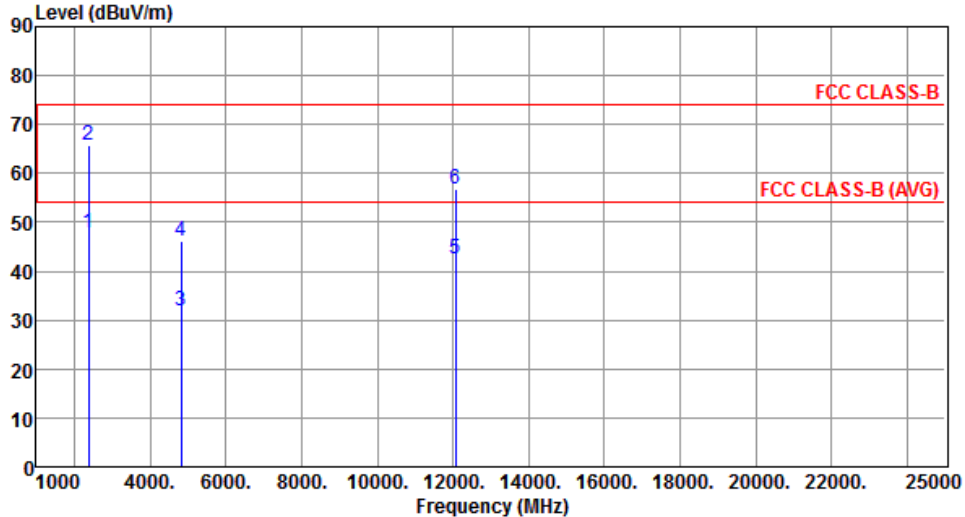
Modulation	11g	Test Freq. (MHz)	2437
Polarization	Vertical		
Level (dBuV/m) <			

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

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

3.5.22 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	47.75	54.00	-6.25	51.26	-3.51	Average	374	13
2	2390.00	65.81	74.00	-8.19	69.32	-3.51	Peak	374	13
3	4824.00	32.01	54.00	-21.99	28.48	3.53	Average	100	204
4	4824.00	46.32	74.00	-27.68	42.79	3.53	Peak	100	204
5	12060.00	42.67	54.00	-11.33	29.35	13.32	Average	100	15
6	12060.00	56.67	74.00	-17.33	43.35	13.32	Peak	100	15

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		
Level (dBUV/m) <			

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

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

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

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

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

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Horizontal		
Level (dBuV/m) </			

Modulation	HT40	Test Freq. (MHz)	2437
Polarization	Vertical		
Level (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

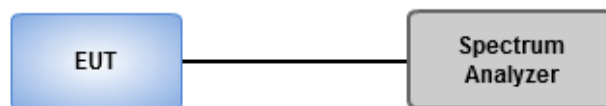
Reference level measurement

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

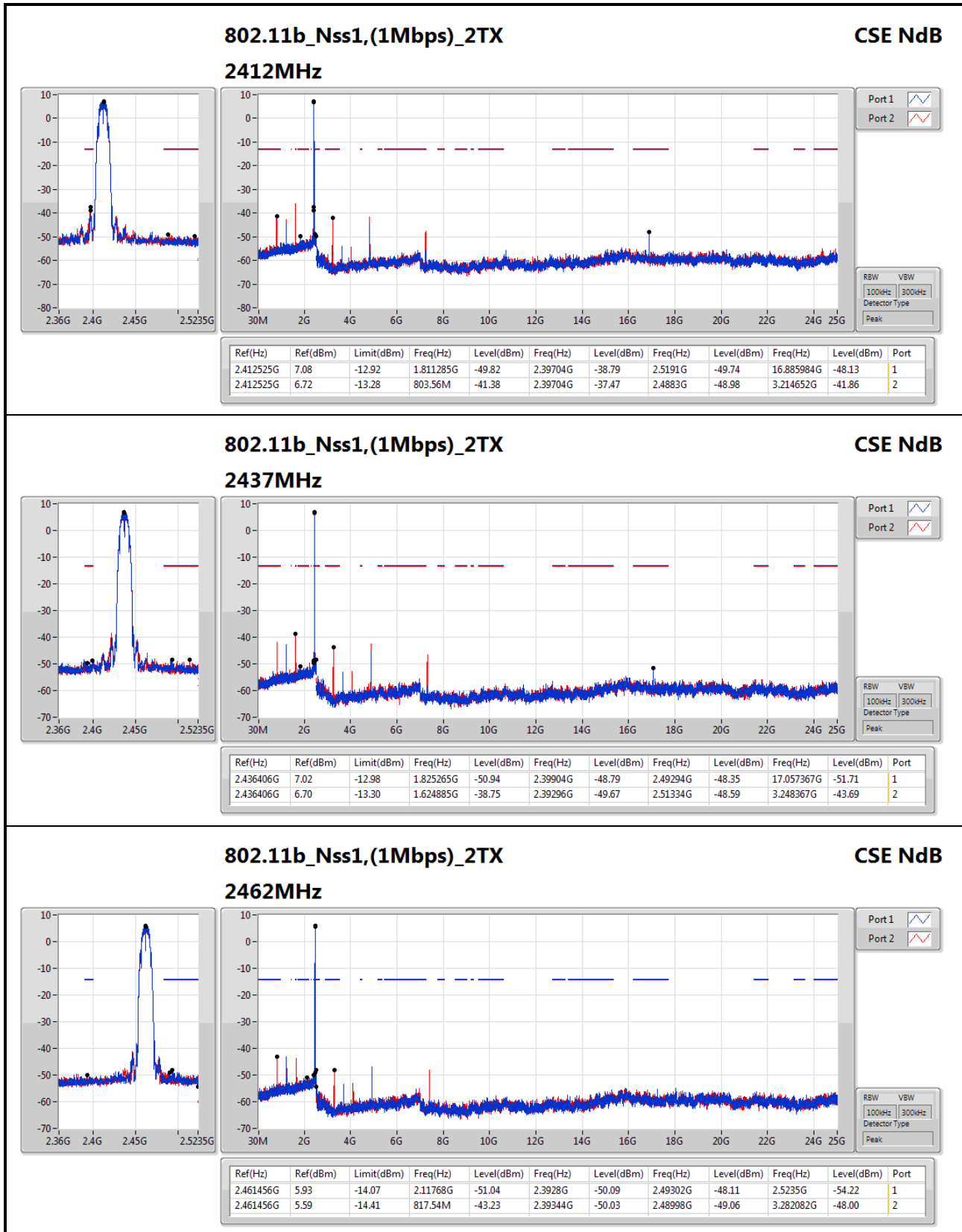
Emission level measurement

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



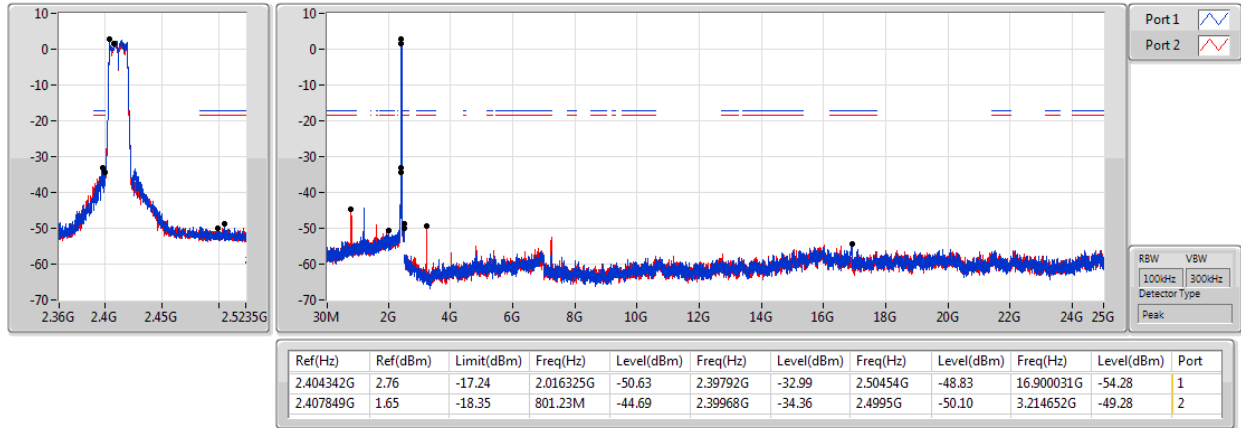
3.6.4 Unwanted Emissions into Non-Restricted Frequency Bands



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

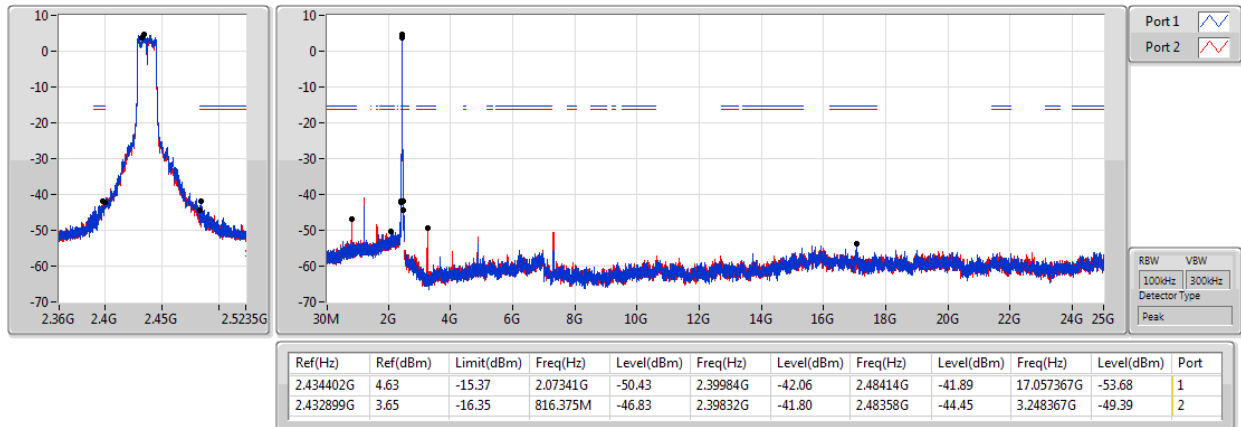
2412MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

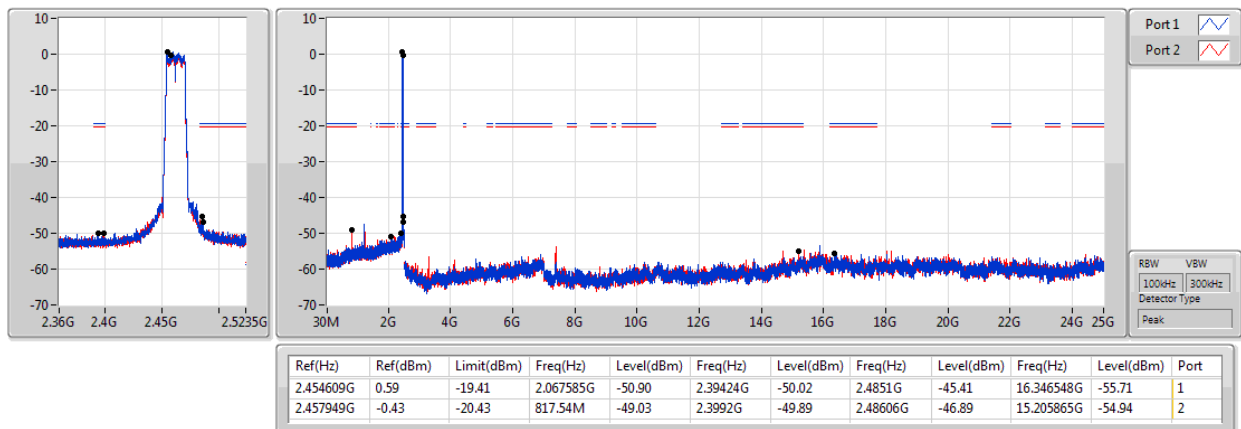
2437MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

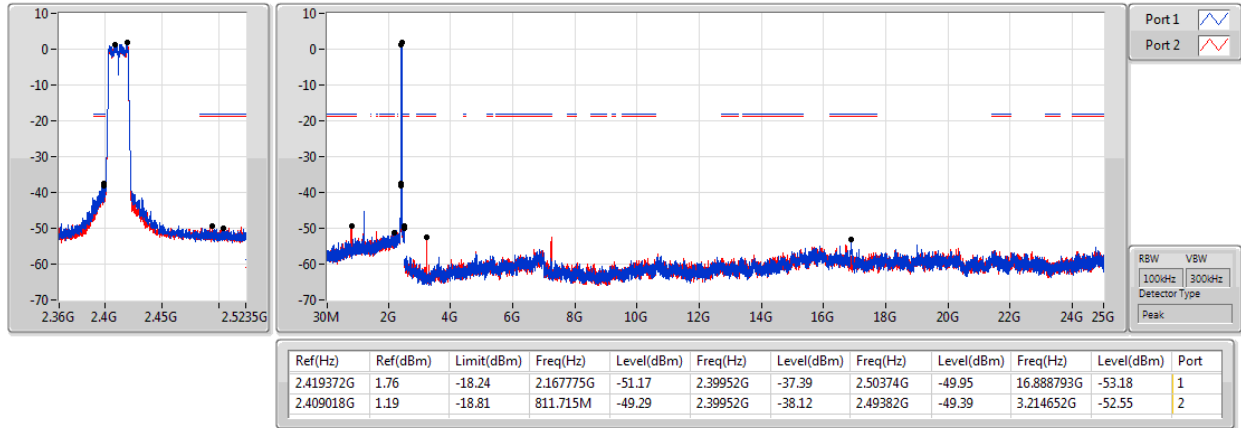
2462MHz



802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

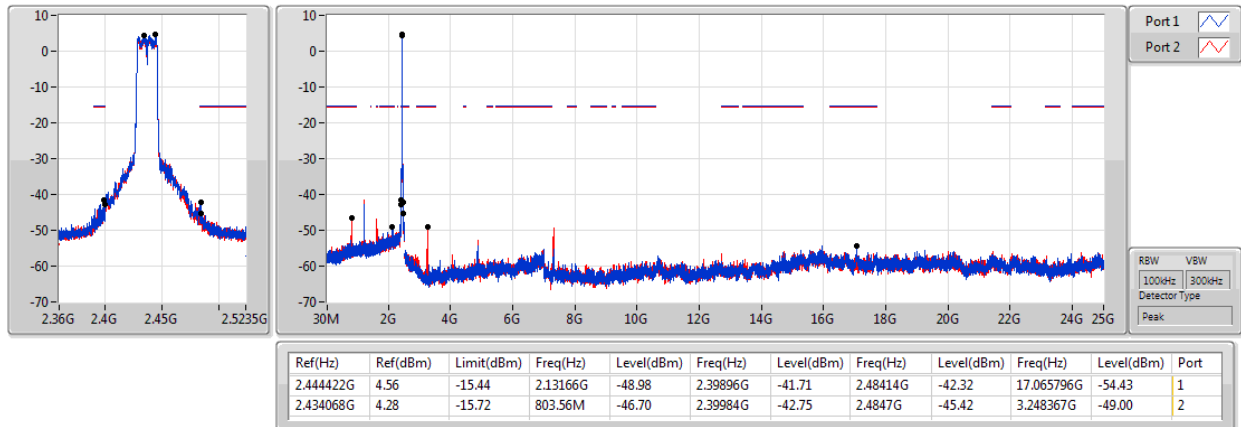
2412MHz



802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

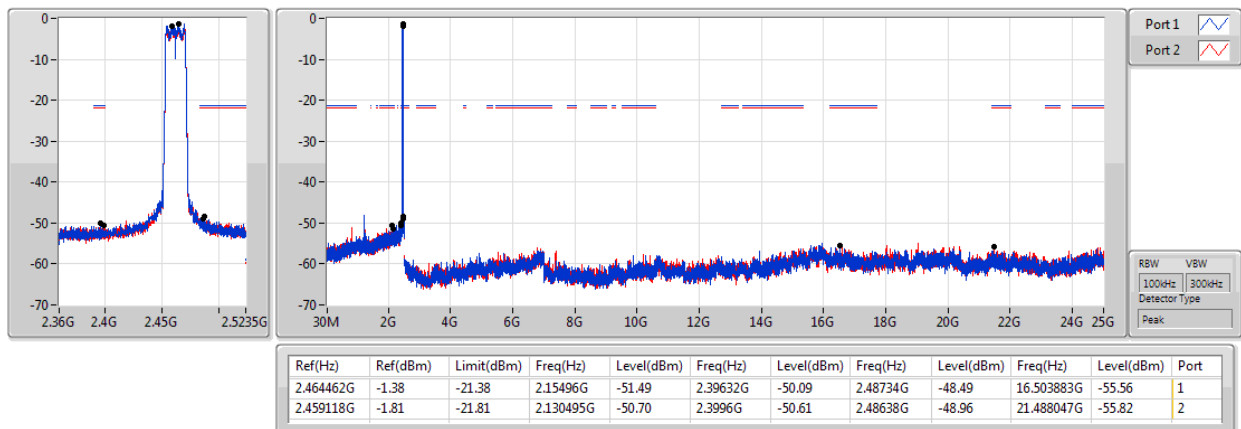
2437MHz



802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

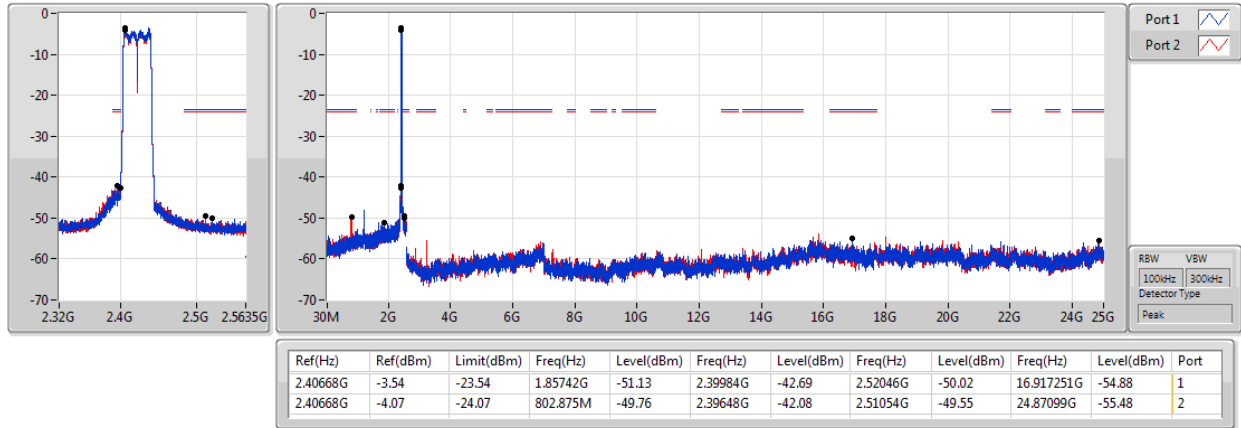
2462MHz



802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

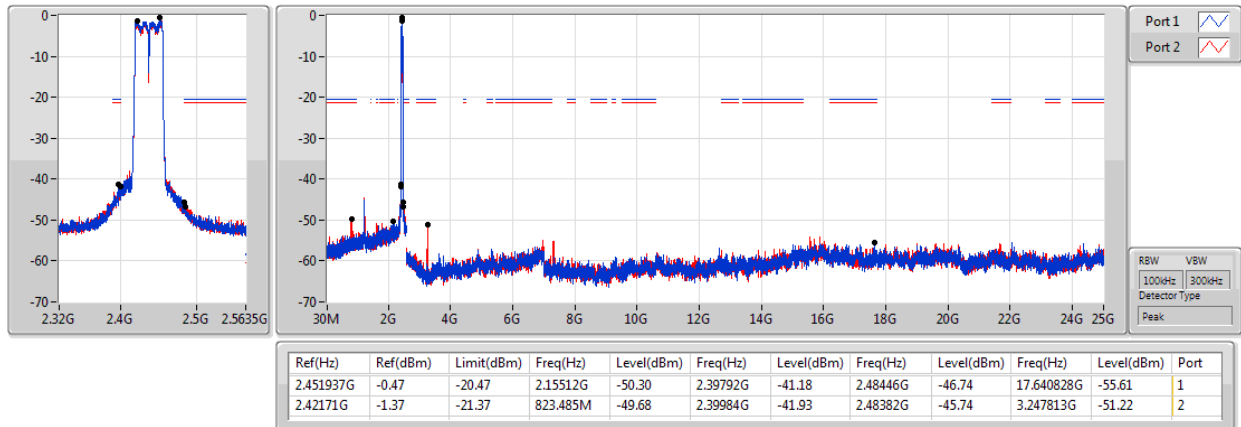
2422MHz



802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

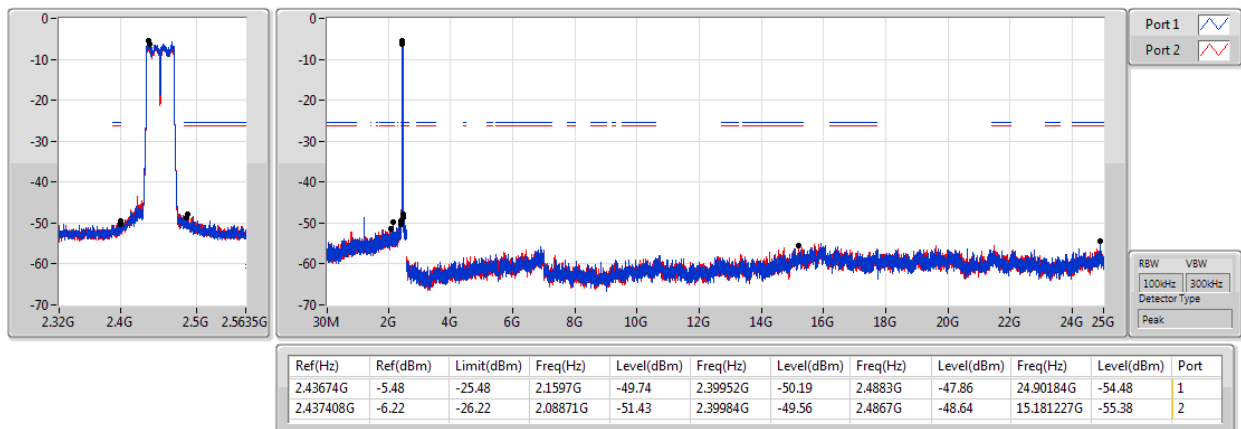
2437MHz



802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

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==