FCC Test Report

Product Name	Medical Cart Computer
Model No	DT590B, DT592B, DT594B
FCC ID.	YE3800G

Applicant	DT Research, Inc.
Address	6F, No. 1, NingPo E. St. Taipei, 100 Taiwan

Date of Receipt	Jan. 18, 2016
Issue Date	Mar. 07, 2016
Report No.	1610298R-RFUSP27V00
Report Version	V1.0

Testing Laboratory
3023

The test results relate only to the samples tested.
The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
This report must not be used to claim product endorsement by TAF or any agency of the government.

Test Report

Issue Date: Mar. 07, 2016
Report No.: 1610298R-RFUSP27V00

Product Name	Medical Cart Computer
Applicant	DT Research, Inc.
Address	6F, No. 1, NingPo E. St. Taipei, 100 Taiwan
Manufacturer	DT Research, Inc.
Model No.	DT590B, DT592B, DT594B
FCC ID.	YE3800G
EUT Rated Voltage	AC 100-240V, 50/60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	DT Research, Inc.
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2014 ANSI C63.4: 2014, ANSI C63.10: 2013 KDB 558074 D01 DTS Meas Guidance v03r04
Test Result	Complied

Documented By : Jinn Chen

(Senior Adm. Specialist / Jinn Chen)

Tested By : Yulin Chen

(Assistant Engineer / Yulin Chen)

Approved By :

(Director / Vincent Lin)

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Medical Cart Computer
Trade Name	DT Research, Inc.
Model No.	DT590B, DT592B, DT594B
FCC ID.	YE3800G
Frequency Range	802.11b/g/n-20MHz:2412-2462MHz,802.11n-40MHz:2422-2452MHz
Number of Channels	802.11b/g/n-20MHz: 11, n-40MHz: 7
Data Speed	802.11b: 1-11Mbps, 802.11a/g: 6-54Mbps, 802.11n: up to 300Mbps
Type of Modulation	802.11b:DSSS, DBPSK, DQPSK, CCK 802.11g/n: OFDM, BPSK, QPSK, 16QAM, 64QAM
Antenna Type	PIFA Antenna
Antenna Gain	Refer to the table “Antenna List”
Channel Control	Auto
Power Cable	Non-shielded, 1.8m
Power Adapter	MFR: EDAC, M/N: EM11201D Input: 100-240Vac, 2.0-1.0A, 50-60Hz Output: 18-24V⎓ 120W max Cable Out: Non-shielded, 1.2m, with one ferrite core bonded.

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	CUELE	27-594-720020 (210-80012) (Main) 27-594-720010 (210-80013) (Aux)	PIFA Antenna	1.51dBi for 2.4 GHz

Note: The antenna of EUT is conform to FCC 15.203

802.11b/g/n-20MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	2412 MHz	Channel 02:	2417 MHz	Channel 03:	2422 MHz	Channel 04:	2427 MHz
Channel 05:	2432 MHz	Channel 06:	2437 MHz	Channel 07:	2442 MHz	Channel 08:	2447 MHz
Channel 09:	2452 MHz	Channel 10:	2457 MHz	Channel 11:	2462 MHz		

802.11n-40MHz (2.4G Band) Center Working Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 03:	2422 MHz	Channel 04:	2427 MHz	Channel 05:	2432 MHz	Channel 06:	2437 MHz
Channel 07:	2442 MHz	Channel 08:	2447 MHz	Channel 09:	2452 MHz		

Note:

1. This device is a Medical Cart Computer with a built-in 2.4GHz and 5GHz WLAN、Bluetooth transceiver, this report for 2.4GHz WLAN.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report. (802.11b is 1Mbps、802.11g is 6Mbps、802.11n(20M-BW) is 14.4Mbps and 802.11n(40M-BW) is 30Mbps).
4. At result of pretests, module supports dual-channel transmission, only the worst case is shown in the report. (802.11b is chain B, 802.11g is chain B)
5. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11b/g/n transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.
6. Medical Cart Computer operation on 19-inch、22-inch and 24-inch size,it was evaluated at both 22-inch and 24-inch size . 22-inch was found through pre-testing, 22-inch produce emissions was worse case.

Test Mode:	Mode 1: Transmit (802.11b 1Mbps)
	Mode 2: Transmit (802.11g 6Mbps)
	Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band)
	Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band)

1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

For 19”:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	LCD Monitor	DELL	ST2320Lf	CN-0M2nn6-72872-22I-C A1S	Non-Shielded, 1.8m
2	LCD Monitor	ASUS	VS229HA	F4LMQS135395	Non-Shielded, 1.8m
3	Modem	ACEEX	DM-1414	0102027541	Non-Shielded, 1.8m
4	Keyboard	Logitech	Y-U0009	LZ027HU	N/A
5	USB Mouse	Logitech	M-U0026	1245HS0684H8	N/A
6	IPod nano	Apple	A1199	5U728909VQ5	N/A
7	IPod nano	Apple	A1199	YM73337PVQ5	N/A
8	IPod nano	Apple	A1199	YM73336EVQ5	N/A
9	IPod nano	Apple	A1199	YM7333DCVQ5	N/A
10	Microphone & Earphone	Ergotech	ET-E201	N/A	N/A

For 22”:

	Product	Manufacturer	Model No.	Serial No.	Power Cord
1	LCD Monitor	DELL	ST2320Lf	CN-0M2nn6-72872-22I-C A1S	Non-Shielded, 1.8m
2	LCD Monitor	ASUS	VS229HA	F4LMQS135395	Non-Shielded, 1.8m
3	Modem	ACEEX	DM-1414	0102027541	Non-Shielded, 1.8m
4	Modem	ACEEX	DM-1414	0102027559	Non-Shielded, 1.8m
5	Modem	ACEEX	DM-1414	0102027533	Non-Shielded, 1.8m
6	Modem	ACEEX	DM-1414	0102027537	Non-Shielded, 1.8m
7	Keyboard	Logitech	Y-U0009	LZ027HU	N/A
8	USB Mouse	Logitech	M-U0026	1245HS0684H8	N/A
9	IPod nano	Apple	A1199	5U728909VQ5	N/A
10	IPod nano	Apple	A1199	YM73337PVQ5	N/A
11	IPod nano	Apple	A1199	YM73336EVQ5	N/A
12	IPod nano	Apple	A1199	YM7333DCVQ5	N/A
13	Microphone & Earphone	Ergotech	ET-E201	N/A	N/A

For 19”:

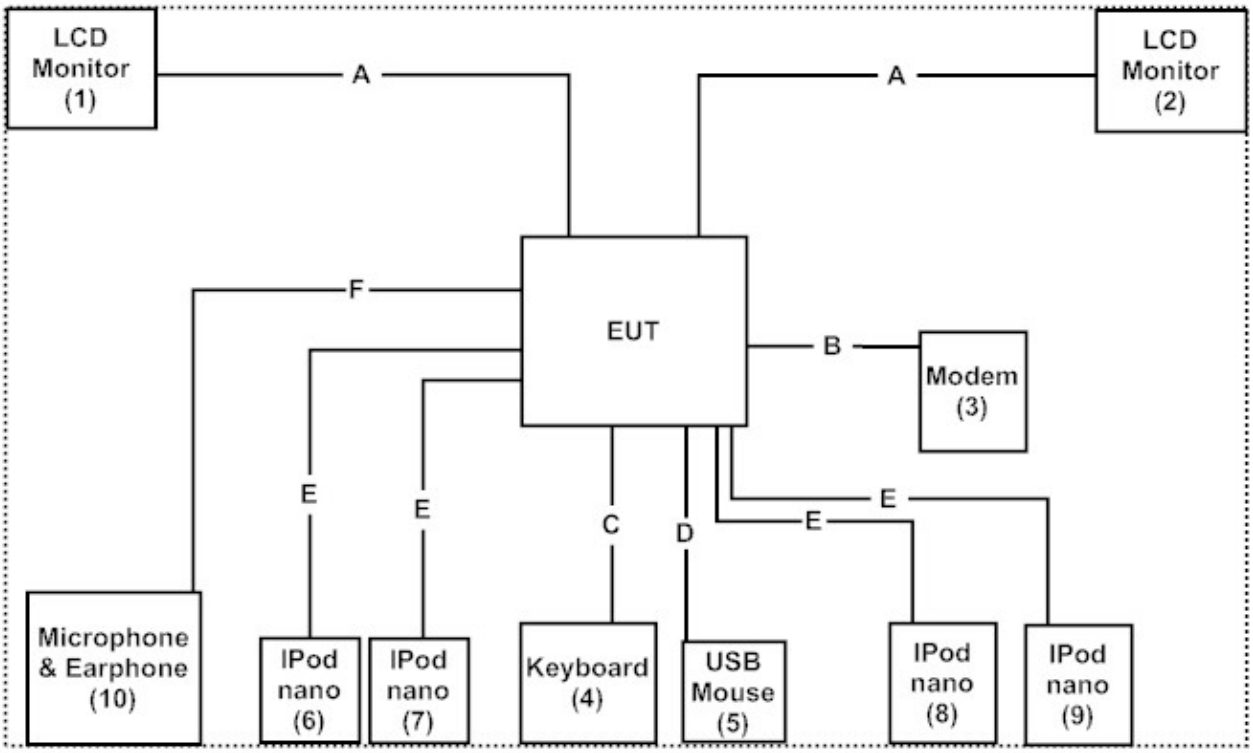
Signal Cable Type		Signal cable Description
A	HDMI Card	Non-Shielded, 1.8m, two PCS.
B	Modem Card	Shielded, 1.5m
C	Keyboard Cable	Shielded, 1.8m
D	Mouse Cable	Shielded, 1.8m
E	USB Cable	Shielded, 1.2m, four PCS.
F	Earphone Cable	Non-Shielded, 2m

For 22”:

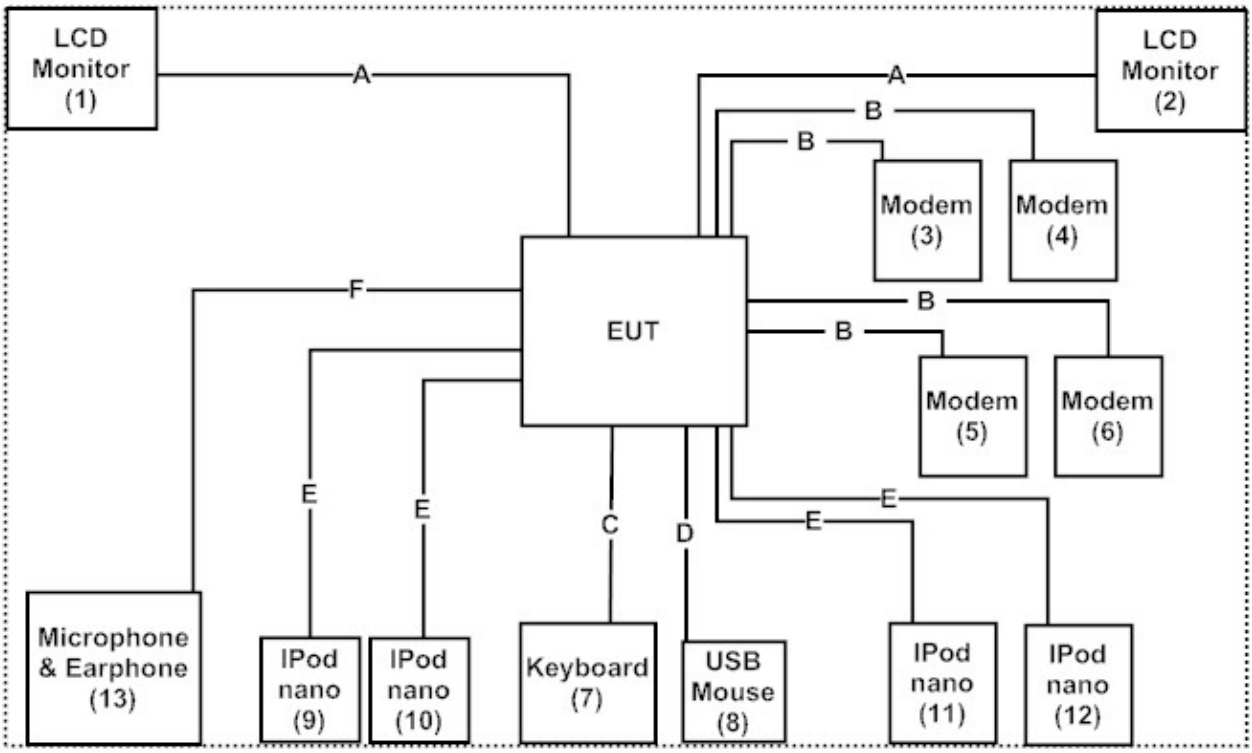
Signal Cable Type		Signal cable Description
A	HDMI Card	Non-Shielded, 1.8m, two PCS.
B	Modem Card	Shielded, 1.5m, four PCS.
C	Keyboard Cable	Shielded, 1.8m
D	Mouse Cable	Shielded, 1.8m
E	USB Cable	Shielded, 1.2m, four PCS.
F	Earphone Cable	Non-Shielded, 2m

1.4. Configuration of Tested System

For 19”:



For 22”:



1.5. EUT Exercise Software

(1) Setup the EUT as shown on 1.4

(2) Execute “DRTU-V1.7.4-1041” program on the Notebook PC.

(3) Configure the test mode, the test channel, and the data rate.

(4) Start the continuous transmission.

(5) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site : http://www.quietek.com/tw/ctg/cts/accreditations.htm
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046
Registration Number: 92195

Site Name: Quietek Corporation
Site Address: No.5-22, Ruishukeng,
Linkou Dist. New Taipei City 24451,
Taiwan, R.O.C.
TEL: 886-2-8601-3788 / FAX : 886-2-8601-3789
E-Mail : service@quietek.com

FCC Accreditation Number: TW1014

2. Conducted Emission

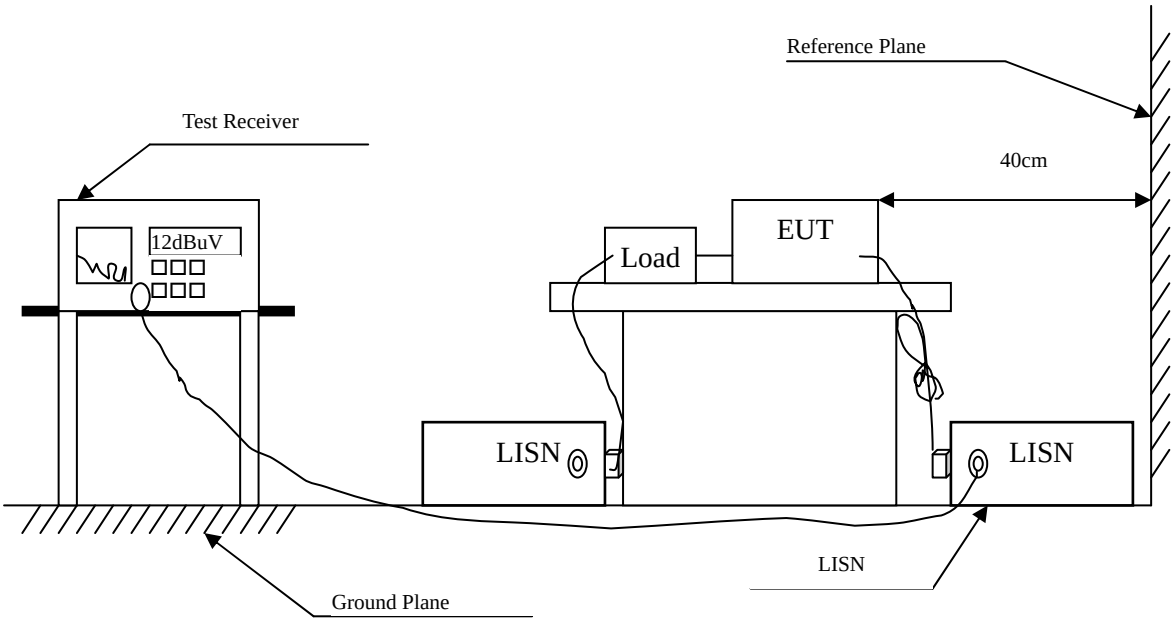
2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2015	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2016	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2016	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar, 2016	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2016	
	No.1 Shielded Room				

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked by “X” are used to measure the final test results.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBuV) Limit		
Frequency MHz	Limits	
	QP	AVG
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product : Medical Cart Computer
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
Line 1					
Quasi-Peak					
0.158	9.781	15.170	24.952	-40.819	65.771
0.404	9.781	6.990	16.771	-41.972	58.743
0.576	9.794	10.530	20.324	-35.676	56.000
0.638	9.799	8.470	18.269	-37.731	56.000
7.763	10.056	3.430	13.486	-46.514	60.000
14.349	10.146	17.750	27.896	-32.104	60.000
Average					
0.158	9.781	12.690	22.472	-33.299	55.771
0.404	9.781	1.680	11.461	-37.282	48.743
0.576	9.794	10.040	19.834	-26.166	46.000
0.638	9.799	3.780	13.579	-32.421	46.000
7.763	10.056	0.040	10.096	-39.904	50.000
14.349	10.146	11.580	21.726	-28.274	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " " means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Medical Cart Computer
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
Line 2					
Quasi-Peak					
0.154	9.831	17.600	27.431	-38.455	65.886
0.205	9.835	12.270	22.105	-42.324	64.429
0.392	9.850	7.050	16.900	-42.186	59.086
0.615	9.867	10.530	20.397	-35.603	56.000
14.072	10.272	17.010	27.282	-32.718	60.000
18.732	10.355	14.890	25.245	-34.755	60.000
Average					
0.154	9.831	14.630	24.461	-31.425	55.886
0.205	9.835	7.130	16.965	-37.464	54.429
0.392	9.850	4.070	13.920	-35.166	49.086
0.615	9.867	5.430	15.297	-30.703	46.000
14.072	10.272	12.150	22.422	-27.578	50.000
18.732	10.355	11.350	21.705	-28.295	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " " means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Medical Cart Computer
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
Line 1					
Quasi-Peak					
0.170	9.778	42.310	52.089	-13.340	65.429
0.205	9.775	36.670	46.445	-17.984	64.429
0.228	9.777	35.110	44.887	-18.884	63.771
0.330	9.775	24.690	34.465	-26.392	60.857
0.447	9.784	21.050	30.834	-26.680	57.514
14.134	10.143	32.510	42.653	-17.347	60.000
Average					
0.170	9.778	31.540	41.319	-14.110	55.429
0.205	9.775	16.200	25.975	-28.454	54.429
0.228	9.777	22.970	32.747	-21.024	53.771
0.330	9.775	12.580	22.355	-28.502	50.857
0.447	9.784	10.620	20.404	-27.110	47.514
14.134	10.143	27.480	37.623	-12.377	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " " means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Medical Cart Computer
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV	dB	dBuV
Line 2					
Quasi-Peak					
0.173	9.833	41.130	50.963	-14.380	65.343
0.224	9.837	34.650	44.487	-19.399	63.886
0.287	9.841	18.890	28.731	-33.355	62.086
0.341	9.846	16.380	26.226	-34.317	60.543
0.486	9.857	9.940	19.797	-36.603	56.400
14.209	10.274	31.710	41.984	-18.016	60.000
Average					
0.173	9.833	23.460	33.293	-22.050	55.343
0.224	9.837	7.540	17.377	-36.509	53.886
0.287	9.841	14.340	24.181	-27.905	52.086
0.341	9.846	4.300	14.146	-36.397	50.543
0.486	9.857	0.970	10.827	-35.573	46.400
14.209	10.274	25.610	35.884	-14.116	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. " " means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Maximum Conducted Power

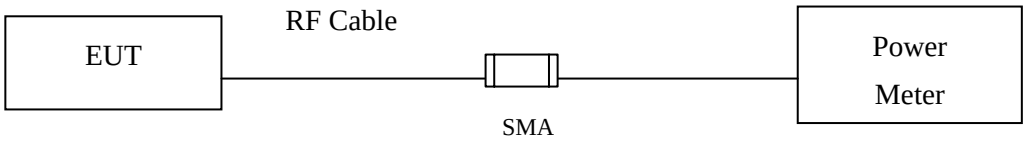
3.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2015
X	Power Sensor	Anritsu	MA2411B/0738448	Jun, 2015
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

3.2. Test Setup



3.3. Limits

The maximum average power shall be less 1 Watt. (Section 15.247 (b)(3))

3.4. Test Procedure

The EUT was tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using KDB 558074 D01 DTS Meas Guidance v03r04 section 9.1.2 PKPM1 Peak power meter method.

3.5. Uncertainty

± 1.27 dB

3.6. Test Result of Maximum Conducted Power

Product : Medical Cart Computer
Test Item : Maximum Conducted Power
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (19" +22" +24")

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Peak Power	Required Limit	Result
		1	2	5.5	11	1		
		Measurement Level (dBm)						
01	2412	12.88	--	--	--	16.19	<30dBm	Pass
06	2437	13.25	13.19	13.05	12.97	16.47	<30dBm	Pass
11	2462	13.59	--	--	--	16.91	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Peak Power	Required Limit	Result
		1	2	5.5	11	1		
		Measurement Level (dBm)						
01	2412	13.10	--	--	--	16.40	<30dBm	Pass
06	2437	13.40	13.32	13.19	13.07	16.60	<30dBm	Pass
11	2462	13.82	--	--	--	17.08	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : Medical Cart Computer
Test Item : Maximum Conducted Power
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (19" +22" +24")

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		6	9	12	18	24	36	48	54	6		
		Measurement Level (dBm)										
01	2412	10.35	--	--	--	--	--	--	--	16.02	<30dBm	Pass
06	2437	12.63	12.54	12.49	12.41	12.34	12.27	12.20	12.13	18.38	<30dBm	Pass
11	2462	9.33	--	--	--	--	--	--	--	14.85	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		6	9	12	18	24	36	48	54	6		
		Measurement Level (dBm)										
01	2412	11.30	--	--	--	--	--	--	--	16.8	<30dBm	Pass
06	2437	13.48	13.41	13.33	13.26	13.18	13.11	13.03	12.96	19.10	<30dBm	Pass
11	2462	10.05	--	--	--	--	--	--	--	15.58	<30dBm	Pass

Note: Peak Power Output Value =Reading value on power meter + cable loss

Product : Medical Cart Computer
Test Item : Maximum Conducted Power
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (19" +22" +24")

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	14.4
		Measurement Level (dBm)								
01	2412	8.76	--	--	--	--	--	--	--	14.62
06	2437	10.24	10.15	10.08	10.00	9.92	9.84	9.76	9.68	15.88
11	2462	8.93	--	--	--	--	--	--	--	14.42

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power
		14.4	28.9	43.3	57.8	86.7	115.6	130	144.4	14.4
		Measurement Level (dBm)								
01	2412	8.05	--	--	--	--	--	--	--	13.75
06	2437	9.70	9.63	9.51	9.42	9.33	9.23	9.14	9.04	15.38
11	2462	9.10	--	--	--	--	--	--	--	14.80

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rata (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
1	2412	14.4	14.62	13.75	17.22	<30dBm	Pass
6	2437	14.4	15.88	15.38	18.65	<30dBm	Pass
11	2462	14.4	14.42	14.80	17.62	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW)

Product : Medical Cart Computer
Test Item : Maximum Conducted Power
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (19" +22" +24")

CHAIN A

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power
		30	60	90	120	180	240	270	300	30
		Measurement Level (dBm)								
3	2422	5.86	--	--	--	--	--	--	--	10.80
6	2437	9.56	9.48	9.37	9.28	9.19	9.09	9.00	8.9	15.05
9	2452	5.08	--	--	--	--	--	--	--	9.98

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN B

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power
		30	60	90	120	180	240	270	300	30
		Measurement Level (dBm)								
3	2422	6.30	--	--	--	--	--	--	--	11.15
6	2437	8.92	8.85	8.72	8.63	8.53	8.43	8.33	8.23	14.38
9	2452	4.83	--	--	--	--	--	--	--	9.65

Note: Peak Power Output Value =Reading value on power meter + cable loss

CHAIN A+B

Channel	Frequency (MHz)	Data Rata (Mbps)	Chain A Power (dBm)	Chain B Power (dBm)	Chain A+B Power (dBm)	Limit (dBm)	Result
3	2422	30	10.80	11.15	13.99	<30dBm	Pass
6	2437	30	15.05	14.38	17.74	<30dBm	Pass
9	2452	30	9.98	9.65	12.83	<30dBm	Pass

Note: Peak Power Output Value (dBm) = 10*LOG (Chain A (mW)+ Chain B (mW)

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the radiated emission test:

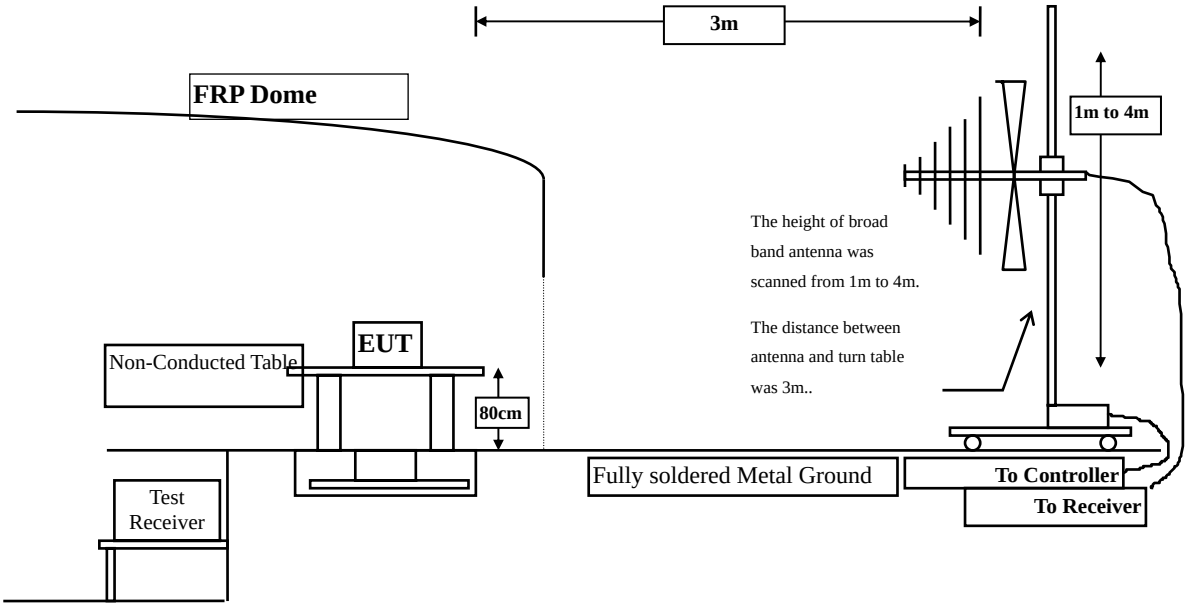
Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒Site # 3	X	Magnetic Loop Antenna	Teseq	HLA6121/ 37133	Sep, 2015
	X	Bilog Antenna	Schaffner Chase	CBL6112B/ 2707	Jun, 2015
	X	EMI Test Receiver	R&S	ESCS 30/838251/ 001	Jun, 2015
	X	Coaxial Cable	QTK(Arnist)	RG 214/ LC003-RG	Jun, 2015
	X	Coaxial signal switch	Arnist	MP59B/ 6200798682	Jun, 2015

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

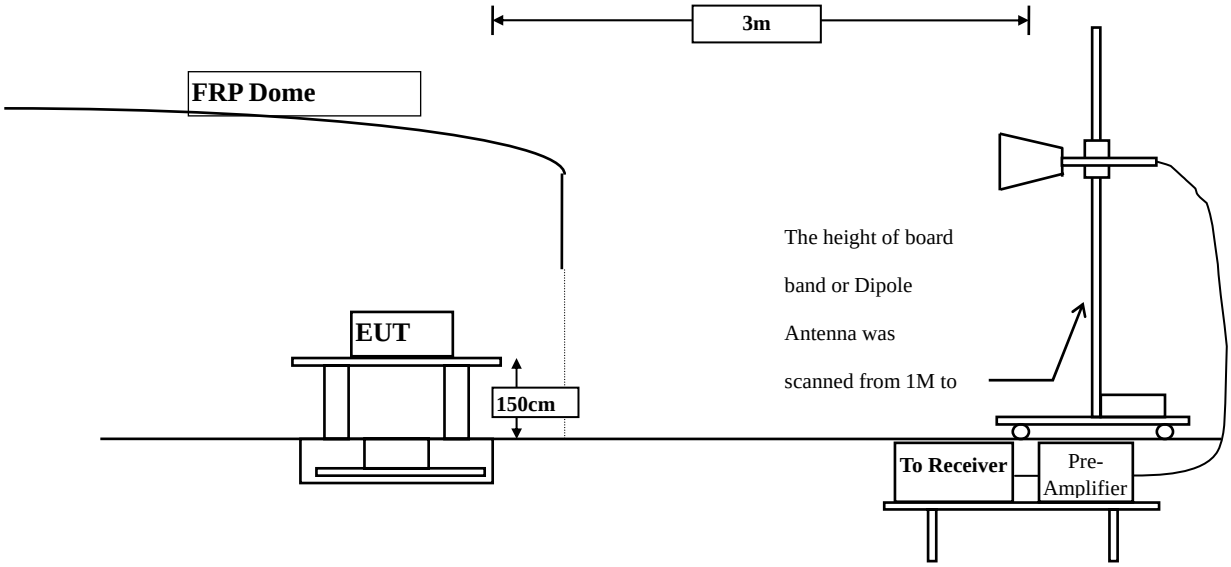
2. The test instruments marked with "X" are used to measure the final test results.

4.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground,when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range form 9kHz - 10th Harmonic of fundamental was investigated.

4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

4.6. Test Result of Radiated Emission

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.000	2.428	44.480	46.909	-27.091	74.000
7236.000	9.177	38.890	48.067	-25.933	74.000
9648.000	10.019	38.590	48.610	-25.390	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	2.836	48.880	51.717	-22.283	74.000
7236.000	9.676	39.160	48.836	-25.164	74.000
9648.000	10.556	38.610	49.167	-24.833	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437 MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4874.000	2.076	48.670	50.747	-23.253	74.000
7311.000	9.512	38.710	48.222	-25.778	74.000
9748.000	9.630	38.540	48.170	-25.830	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	2.532	45.620	48.152	-25.848	74.000
7311.000	10.089	38.180	48.269	-25.731	74.000
9748.000	10.266	38.490	48.757	-25.243	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462 MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4924.000	2.191	46.630	48.821	-25.179	74.000
7386.000	10.373	38.110	48.484	-25.516	74.000
9848.000	9.964	38.320	48.284	-25.716	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4924.000	2.805	46.560	49.365	-24.635	74.000
7386.000	11.180	37.810	48.990	-25.010	74.000
9848.000	10.801	39.150	49.951	-24.049	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.000	2.428	42.950	45.379	-28.621	74.000
7236.000	9.177	38.080	47.257	-26.743	74.000
9648.000	10.019	38.120	48.140	-25.860	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	2.836	47.800	50.637	-23.363	74.000
7236.000	9.676	38.250	47.926	-26.074	74.000
9648.000	10.556	37.860	48.417	-25.583	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437 MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4874.000	2.076	49.310	51.387	-22.613	74.000
7311.000	9.512	38.230	47.742	-26.258	74.000
9748.000	9.630	38.970	48.600	-25.400	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	2.532	45.630	48.162	-25.838	74.000
7311.000	10.089	38.380	48.469	-25.531	74.000
9748.000	10.266	38.500	48.767	-25.233	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462 MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4924.000	2.191	44.980	47.171	-26.829	74.000
7386.000	10.373	37.360	47.734	-26.266	74.000
9848.000	9.964	39.200	49.164	-24.836	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4924.000	2.805	41.990	44.795	-29.205	74.000
7386.000	11.180	37.380	48.560	-25.440	74.000
9848.000	10.801	38.210	49.011	-24.989	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2412MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.000	2.428	44.790	47.219	-26.781	74.000
7236.000	9.177	38.260	47.437	-26.563	74.000
9648.000	10.019	37.980	48.000	-26.000	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	2.836	44.530	47.367	-26.633	74.000
7236.000	9.676	37.800	47.476	-26.524	74.000
9648.000	10.556	37.770	48.327	-25.673	74.000
Average Detector:					
--					

Note:
1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437 MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4874.000	2.076	43.210	45.287	-28.713	74.000
7311.000	9.512	37.870	47.382	-26.618	74.000
9748.000	9.630	38.450	48.080	-25.920	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	2.532	42.670	45.202	-28.798	74.000
7311.000	10.089	38.450	48.539	-25.461	74.000
9748.000	10.266	38.570	48.837	-25.163	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2462 MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4924.000	2.191	44.970	47.161	-26.839	74.000
7386.000	10.373	37.800	48.174	-25.826	74.000
9848.000	9.964	39.160	49.124	-24.876	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4924.000	2.805	41.930	44.735	-29.265	74.000
7386.000	11.180	37.700	48.880	-25.120	74.000
9848.000	10.801	38.320	49.121	-24.879	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2422MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4844.000	2.280	42.290	44.571	-29.429	74.000
7266.000	9.106	38.200	47.306	-26.694	74.000
9688.000	9.663	38.270	47.933	-26.067	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4844.000	2.707	40.620	43.328	-30.672	74.000
7266.000	9.626	37.710	47.336	-26.664	74.000
9688.000	10.284	38.470	48.754	-25.246	74.000
Average Detector:					
--					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437 MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4874.000	2.076	44.520	46.597	-27.403	74.000
7311.000	9.512	37.970	47.482	-26.518	74.000
9748.000	9.630	39.230	48.860	-25.140	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4874.000	2.532	41.870	44.402	-29.598	74.000
7311.000	10.089	38.450	48.539	-25.461	74.000
9748.000	10.266	38.740	49.007	-24.993	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2452 MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4904.000	2.000	42.300	44.301	-29.699	74.000
7356.000	10.308	37.340	47.648	-26.352	74.000
9808.000	9.850	38.500	48.350	-25.650	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4904.000	2.513	41.010	43.524	-30.476	74.000
7356.000	11.022	38.390	49.412	-24.588	74.000
9808.000	10.512	38.350	48.862	-25.138	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.261	40.140	43.401	-30.599	74.000
7236.000	10.650	31.600	42.250	-31.750	74.000
9648.000	13.337	32.380	45.716	-28.284	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4824.000	6.421	40.010	46.431	-27.569	74.000
7236.000	11.495	31.780	43.275	-30.725	74.000
9648.000	13.807	32.100	45.906	-28.094	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437 MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal Peak Detector:					
4874.000	3.038	35.070	38.107	-35.893	74.000
7311.000	11.795	32.130	43.924	-30.076	74.000
9748.000	12.635	31.820	44.455	-29.545	74.000
Average Detector:					
--					
Vertical Peak Detector:					
4874.000	5.812	35.030	40.841	-33.159	74.000
7311.000	12.630	31.300	43.929	-30.071	74.000
9748.000	13.126	31.340	44.466	-29.534	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462 MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4924.000	2.858	34.700	37.557	-36.443	74.000
7386.000	12.127	32.140	44.268	-29.732	74.000
9848.000	12.852	32.610	45.463	-28.537	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4924.000	5.521	34.380	39.900	-34.100	74.000
7386.000	13.254	32.820	46.074	-27.926	74.000
9848.000	13.367	32.310	45.677	-28.323	74.000
Average					
Detector:					
--					

Note:
1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.261	38.570	41.831	-32.169	74.000
7236.000	10.650	30.980	41.630	-32.370	74.000
9648.000	13.337	31.990	45.326	-28.674	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	6.421	37.040	43.461	-30.539	74.000
7236.000	11.495	31.570	43.065	-30.935	74.000
9648.000	13.807	32.020	45.826	-28.174	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437 MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal Peak Detector:					
4874.000	3.038	43.590	46.627	-27.373	74.000
7311.000	11.795	32.710	44.504	-29.496	74.000
9748.000	12.635	31.740	44.375	-29.625	74.000
Average Detector:					
--					
Vertical Peak Detector:					
4874.000	5.812	41.520	47.331	-26.669	74.000
7311.000	12.630	32.020	44.649	-29.351	74.000
9748.000	13.126	31.010	44.136	-29.864	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462 MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4924.000	2.858	36.500	39.357	-34.643	74.000
7386.000	12.127	32.080	44.208	-29.792	74.000
9848.000	12.852	31.990	44.843	-29.157	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4924.000	5.521	35.430	40.950	-33.050	74.000
7386.000	13.254	31.930	45.184	-28.816	74.000
9848.000	13.367	31.320	44.687	-29.313	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2412MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4824.000	3.261	35.860	39.121	-34.879	74.000
7236.000	10.650	30.930	41.580	-32.420	74.000
9648.000	13.337	31.110	44.446	-29.554	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4824.000	6.421	35.230	41.651	-32.349	74.000
7236.000	11.495	30.460	41.955	-32.045	74.000
9648.000	13.807	32.100	45.906	-28.094	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437 MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4874.000	3.038	38.070	41.107	-32.893	74.000
7311.000	11.795	31.000	42.794	-31.206	74.000
9748.000	12.635	30.910	43.545	-30.455	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4874.000	5.812	37.910	43.721	-30.279	74.000
7311.000	12.630	31.480	44.109	-29.891	74.000
9748.000	13.126	31.970	45.096	-28.904	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2462 MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4924.000	2.858	35.620	38.477	-35.523	74.000
7386.000	12.127	31.860	43.988	-30.012	74.000
9848.000	12.852	31.870	44.723	-29.277	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4924.000	5.521	35.560	41.080	-32.920	74.000
7386.000	13.254	32.110	45.364	-28.636	74.000
9848.000	13.367	31.470	44.837	-29.163	74.000
Average					
Detector:					
--					

Note:
1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2422MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4844.000	3.171	34.750	37.921	-36.079	74.000
7266.000	11.162	30.950	42.112	-31.888	74.000
9688.000	12.964	32.020	44.985	-29.015	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4844.000	6.178	34.670	40.848	-33.152	74.000
7266.000	11.982	30.600	42.582	-31.418	74.000
9688.000	13.507	31.370	44.878	-29.122	74.000
Average Detector:					
--					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437 MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal Peak Detector:					
4874.000	3.038	36.020	39.057	-34.943	74.000
7311.000	11.795	30.720	42.514	-31.486	74.000
9748.000	12.635	31.570	44.205	-29.795	74.000
Average Detector:					
--					
Vertical Peak Detector:					
4874.000	5.812	35.460	41.271	-32.729	74.000
7311.000	12.630	31.500	44.129	-29.871	74.000
9748.000	13.126	31.970	45.096	-28.904	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2452 MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
Peak Detector:					
4904.000	2.914	34.500	37.415	-36.585	74.000
7356.000	11.995	31.590	43.584	-30.416	74.000
9808.000	12.475	30.860	43.335	-30.665	74.000
Average					
Detector:					
--					
Vertical					
Peak Detector:					
4904.000	5.530	35.410	40.941	-33.059	74.000
7356.000	13.005	31.470	44.474	-29.526	74.000
9808.000	12.901	31.280	44.181	-29.819	74.000
Average					
Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Medical Cart Computer
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437 MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
173.391	-9.978	44.058	34.079	-9.421	43.500
363.174	-1.465	28.421	26.956	-19.044	46.000
512.188	1.531	23.084	24.616	-21.384	46.000
648.551	1.999	27.072	29.070	-16.930	46.000
815.841	5.290	24.099	29.389	-16.611	46.000
977.507	6.695	29.376	36.070	-17.930	54.000
Vertical					
101.696	-0.016	30.082	30.066	-13.434	43.500
304.130	-6.796	30.750	23.954	-22.046	46.000
462.986	-4.034	34.114	30.080	-15.920	46.000
640.116	-3.688	30.342	26.654	-19.346	46.000
832.710	2.333	27.938	30.272	-15.728	46.000
969.072	8.191	26.160	34.351	-19.649	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Medical Cart Computer
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437 MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
127.000	-10.017	41.473	31.456	-12.044	43.500
297.101	-3.640	27.564	23.924	-22.076	46.000
448.928	-2.267	22.909	20.642	-25.358	46.000
624.652	1.861	23.938	25.799	-20.201	46.000
807.406	4.991	19.421	24.413	-21.587	46.000
966.261	6.898	25.526	32.423	-21.577	54.000
Vertical					
157.928	-6.191	38.848	32.657	-10.843	43.500
319.594	-6.895	28.788	21.893	-24.107	46.000
443.304	-8.228	35.937	27.709	-18.291	46.000
607.783	-1.579	29.089	27.509	-18.491	46.000
775.072	2.317	23.387	25.705	-20.295	46.000
966.261	8.016	27.121	35.137	-18.863	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Medical Cart Computer
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437 MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
145.275	-10.355	45.080	34.725	-8.775	43.500
305.536	-2.939	29.646	26.708	-19.292	46.000
453.145	-1.210	24.585	23.375	-22.625	46.000
593.725	3.860	26.345	30.205	-15.795	46.000
766.638	4.239	22.446	26.685	-19.315	46.000
939.551	6.399	27.327	33.726	-12.274	46.000
Vertical					
160.739	-6.386	39.670	33.284	-10.216	43.500
330.841	-4.912	28.929	24.016	-21.984	46.000
506.565	-0.582	27.316	26.733	-19.267	46.000
700.565	0.336	23.233	23.569	-22.431	46.000
811.623	3.123	28.330	31.454	-14.546	46.000
966.261	8.016	27.010	35.026	-18.974	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Medical Cart Computer
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437 MHz) (19")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
153.710	-10.097	42.901	32.805	-10.695	43.500
353.333	-2.447	29.463	27.015	-18.985	46.000
499.536	0.051	22.722	22.773	-23.227	46.000
662.609	2.082	25.805	27.887	-18.113	46.000
817.246	5.482	19.407	24.889	-21.111	46.000
947.986	6.636	25.887	32.523	-13.477	46.000
Vertical					
131.217	-4.272	38.552	34.280	-9.220	43.500
277.420	-8.699	33.627	24.928	-21.072	46.000
432.058	-9.404	40.360	30.956	-15.044	46.000
642.928	-4.534	25.805	21.271	-24.729	46.000
797.565	2.819	26.542	29.362	-16.638	46.000
964.855	7.897	26.484	34.382	-19.618	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Medical Cart Computer
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437 MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
150.899	-10.178	42.509	32.331	-11.169	43.500
325.217	-4.503	32.768	28.265	-17.735	46.000
465.797	0.638	27.607	28.245	-17.755	46.000
609.188	4.228	24.005	28.233	-17.767	46.000
762.420	4.326	26.823	31.149	-14.851	46.000
931.116	7.081	27.560	34.641	-11.359	46.000
Vertical					
107.319	-0.308	33.112	32.804	-10.696	43.500
294.290	-7.675	37.667	29.992	-16.008	46.000
460.174	-3.359	30.059	26.701	-19.299	46.000
619.029	-2.593	26.916	24.323	-21.677	46.000
814.435	3.185	26.406	29.591	-16.409	46.000
969.072	8.191	26.560	34.751	-19.249	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Medical Cart Computer
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437 MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
143.870	-10.393	43.422	33.030	-10.470	43.500
304.130	-2.997	29.855	26.858	-19.142	46.000
461.580	1.526	23.406	24.932	-21.068	46.000
620.435	2.336	28.523	30.858	-15.142	46.000
762.420	4.326	22.076	26.402	-19.598	46.000
943.768	6.494	28.269	34.763	-11.237	46.000
Vertical					
134.029	-4.557	34.409	29.853	-13.647	43.500
297.101	-7.246	30.789	23.543	-22.457	46.000
491.101	-2.944	28.895	25.950	-20.050	46.000
658.391	-3.058	29.255	26.196	-19.804	46.000
776.478	2.284	28.270	30.554	-15.446	46.000
967.667	8.104	27.170	35.274	-18.726	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Medical Cart Computer
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437 MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
170.580	-10.384	42.745	32.361	-11.139	43.500
299.913	-3.564	31.048	27.484	-18.516	46.000
448.928	-2.267	25.159	22.892	-23.108	46.000
604.971	4.781	25.430	30.210	-15.790	46.000
761.014	4.351	26.149	30.500	-15.500	46.000
922.681	6.316	28.419	34.735	-11.265	46.000
Vertical					
132.623	-4.419	39.279	34.860	-8.640	43.500
309.754	-6.835	31.391	24.556	-21.444	46.000
461.580	-3.367	24.836	21.469	-24.531	46.000
640.116	-3.688	27.758	24.070	-21.930	46.000
793.348	2.873	22.729	25.601	-20.399	46.000
936.739	5.854	26.043	31.897	-14.103	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Medical Cart Computer
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437 MHz) (22")

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dBuV	dBuV/m	dB	dBuV/m
Horizontal					
152.304	-10.132	41.152	31.020	-12.480	43.500
328.029	-4.589	30.438	25.849	-20.151	46.000
457.362	0.192	23.019	23.211	-22.789	46.000
596.536	4.016	25.329	29.345	-16.655	46.000
748.362	3.293	23.715	27.008	-18.992	46.000
905.812	5.762	28.550	34.312	-11.688	46.000
Vertical					
119.971	-3.705	35.565	31.860	-11.640	43.500
305.536	-6.810	29.505	22.695	-23.305	46.000
460.174	-3.359	30.049	26.691	-19.309	46.000
603.565	-1.937	29.666	27.729	-18.271	46.000
783.507	3.022	27.931	30.953	-15.047	46.000
970.478	7.689	25.669	33.358	-20.642	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss –Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

5. RF Antenna conducted test

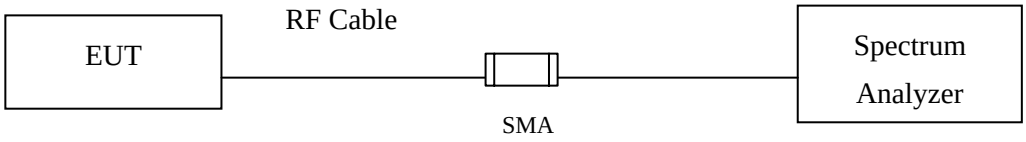
5.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

5.2. Test Setup

RF antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 30 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

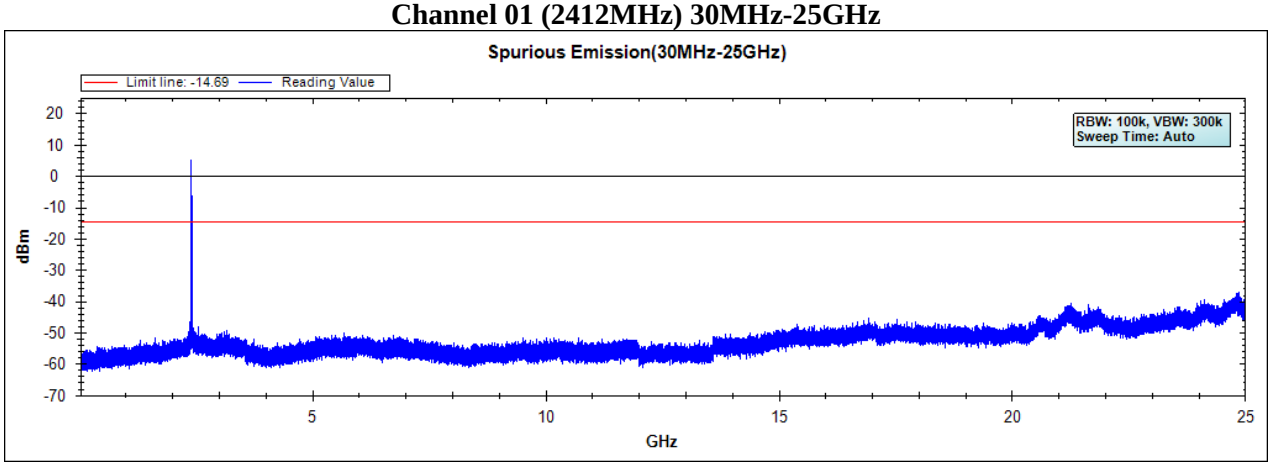
5.5. Uncertainty

The measurement uncertainty
Conducted is defined as ± 1.27dB

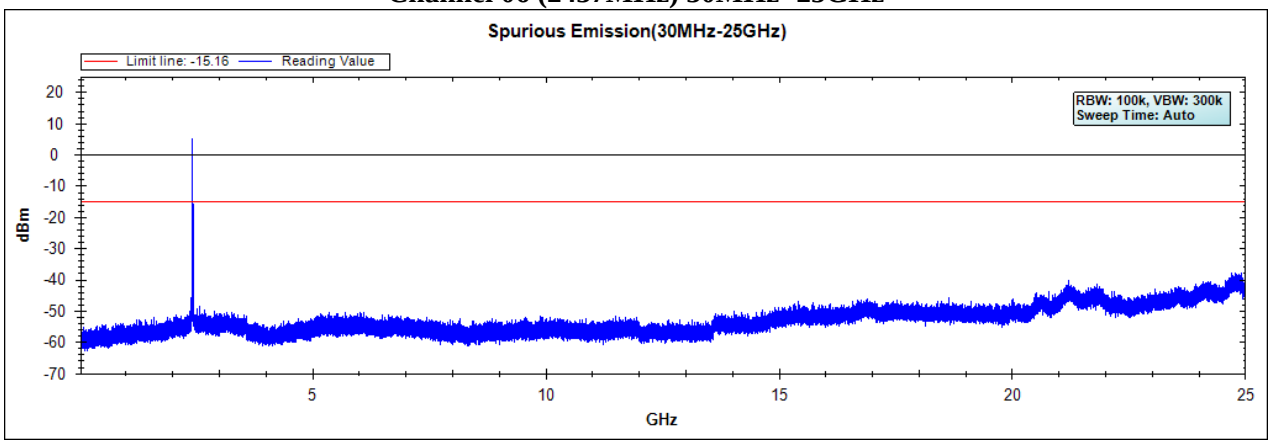
5.6. Test Result of RF antenna conducted test

Product : Medical Cart Computer
Test Item : RF antenna conducted test
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (19”+22”+24”)

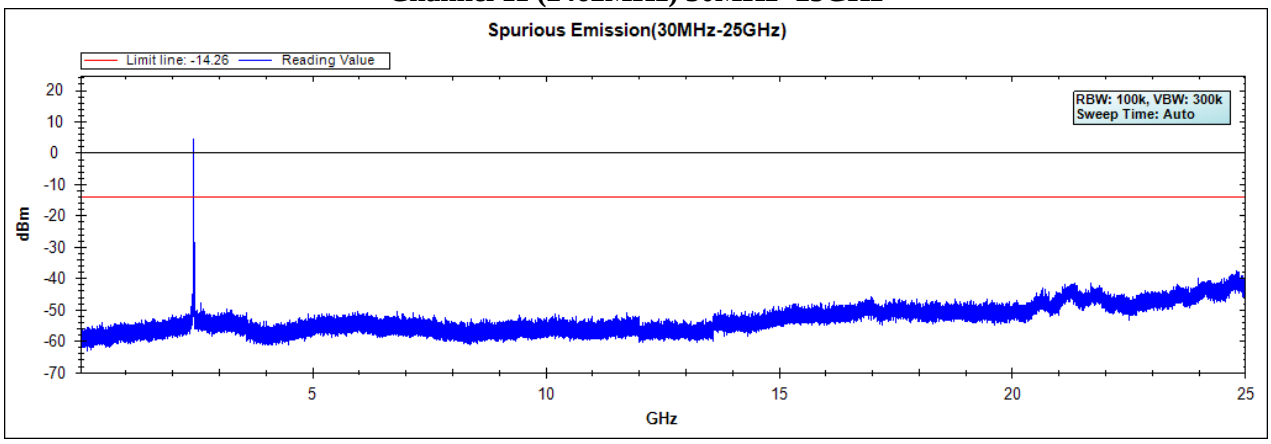
Channel 01 (2412MHz) 30MHz-25GHz



Channel 06 (2437MHz) 30MHz -25GHz



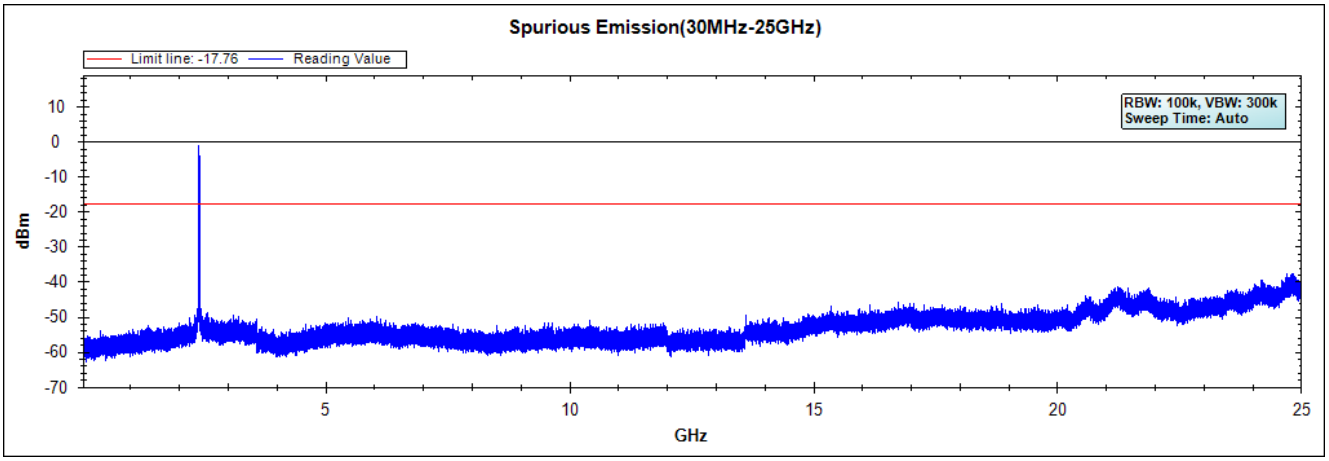
Channel 11 (2462MHz) 30MHz -25GHz



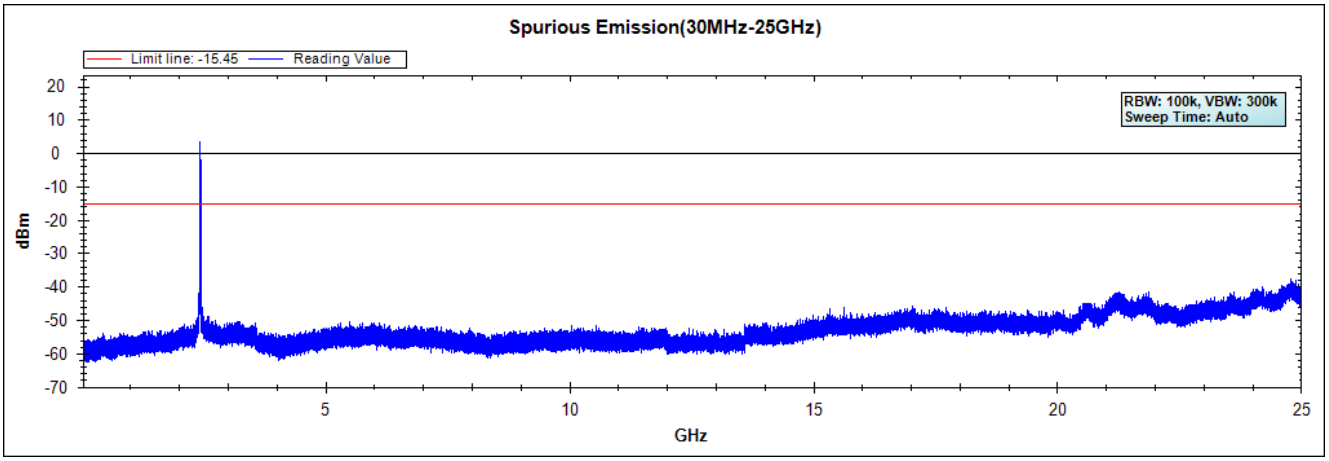
Note: The above test pattern is synthesized by multiple of the frequency range.

Product : Medical Cart Computer
Test Item : RF Antenna Conducted Spurious
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (19”+22”+24”)

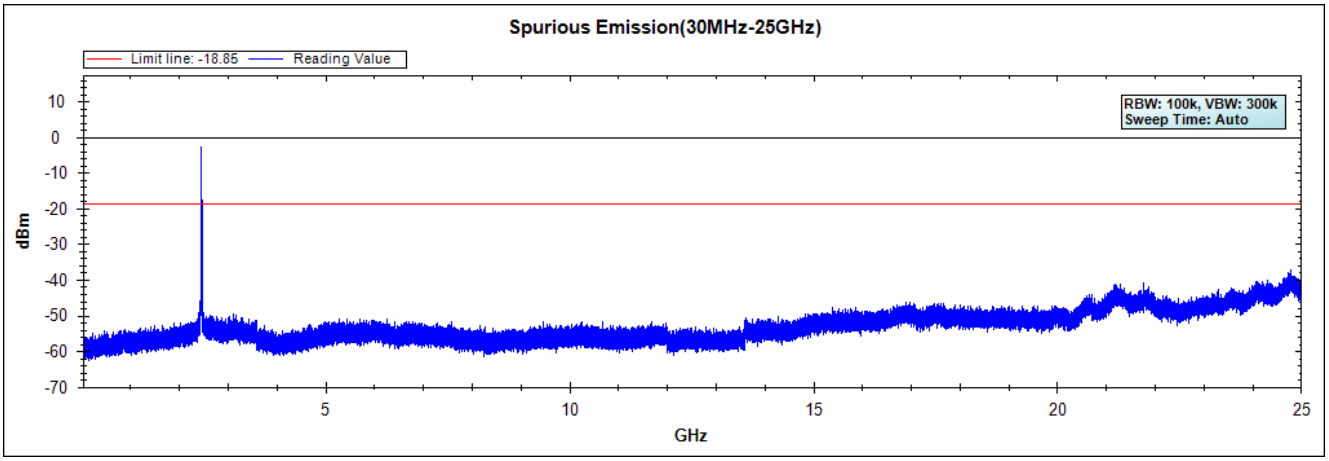
Channel 01 (2412MHz) 30MHz -25GHz



Channel 06 (2437MHz) 30MHz -25GHz



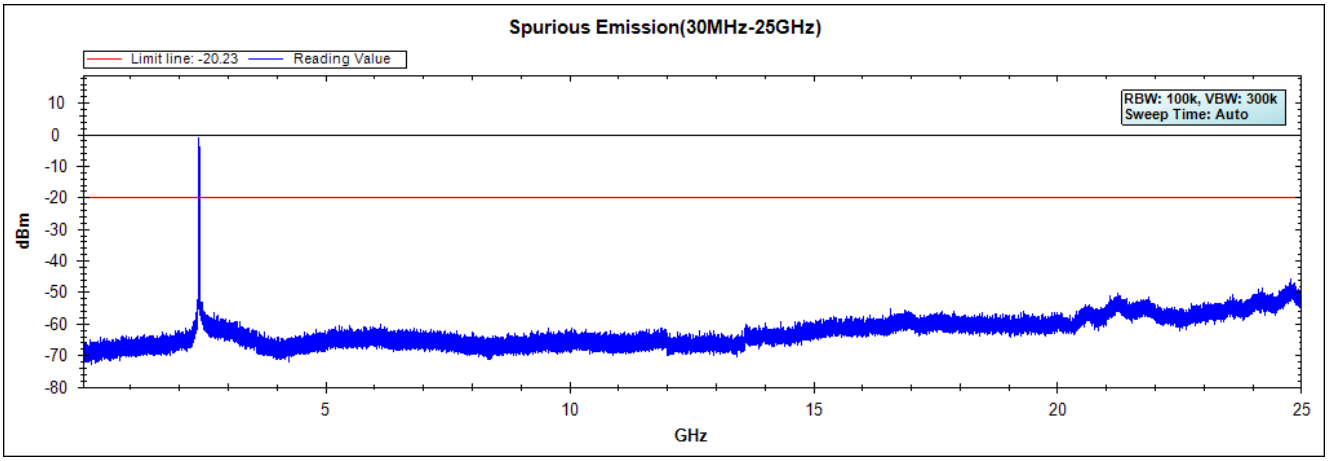
Channel 11 (2462MHz) 30MHz -25GHz



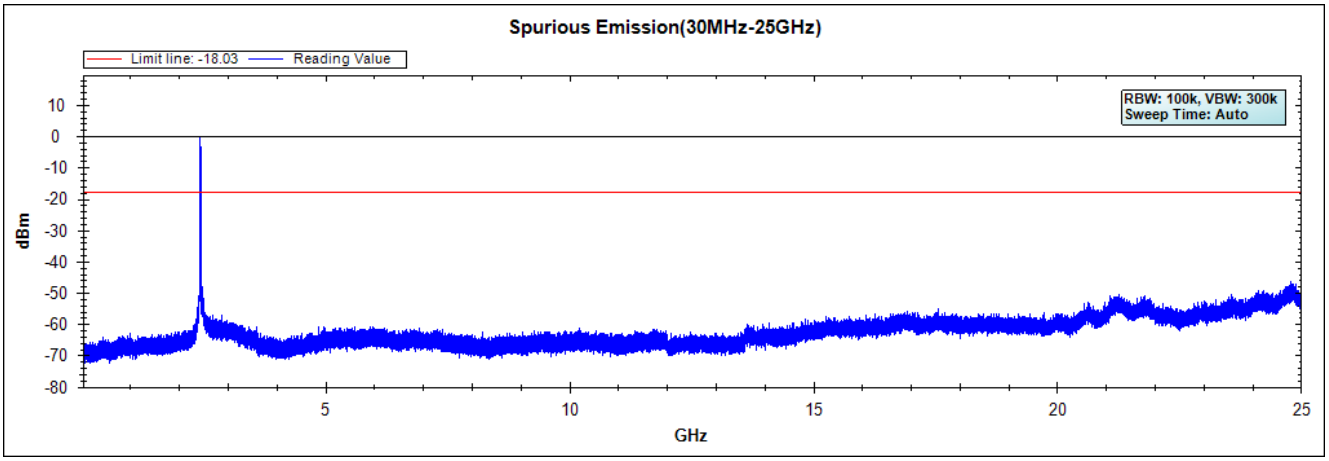
Note: The above test pattern is synthesized by multiple of the frequency range.

Product : Medical Cart Computer
Test Item : RF Antenna Conducted Spurious
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (19”+22”+24”)

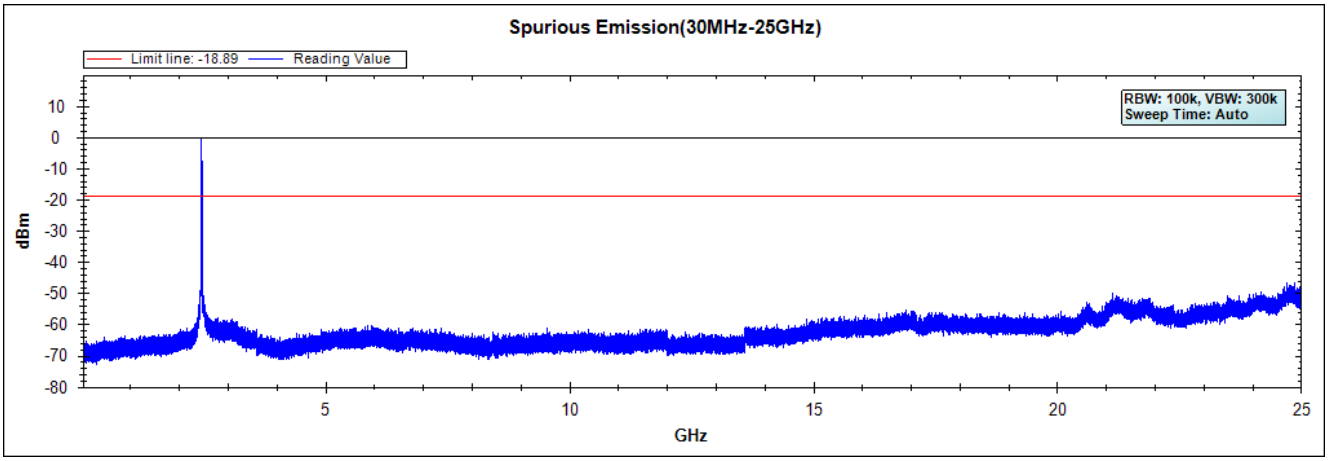
Channel 01 (2412MHz) 30MHz -25GHz-Chain A



Channel 06 (2437MHz) 30MHz -25GHz-Chain A

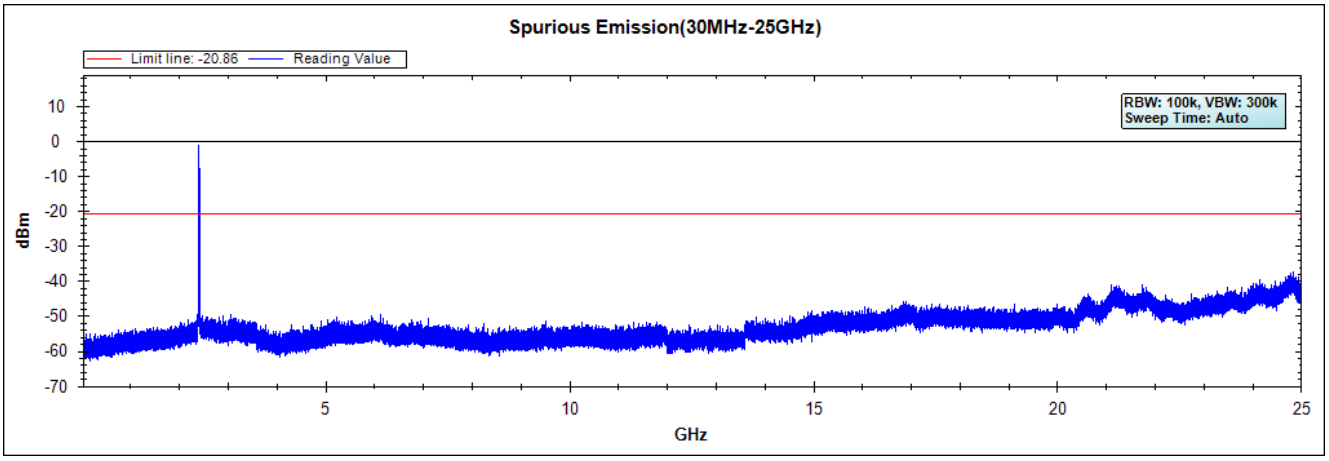


Channel 11 (2462MHz) 30MHz -25GHz-Chain A

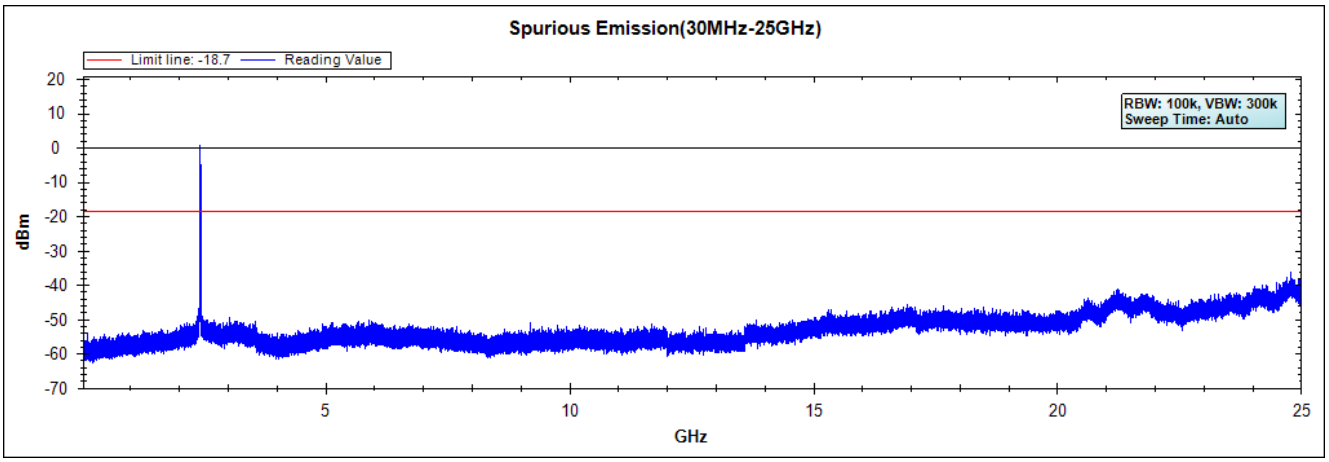


Note: The above test pattern is synthesized by multiple of the frequency range.

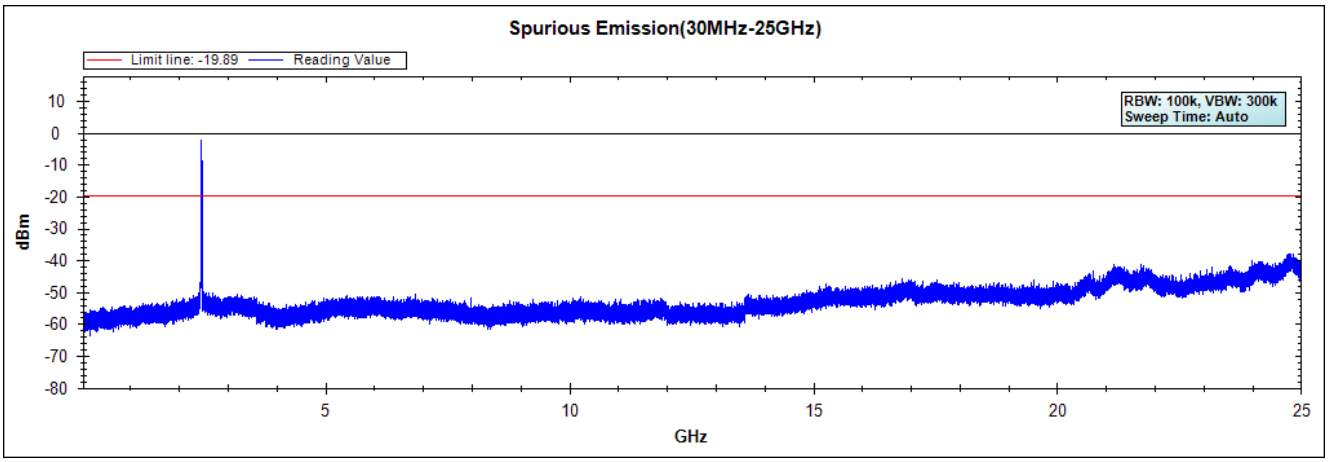
Channel 01 (2412MHz) 30MHz -25GHz-Chain B



Channel 06 (2437MHz) 30MHz -25GHz-Chain B



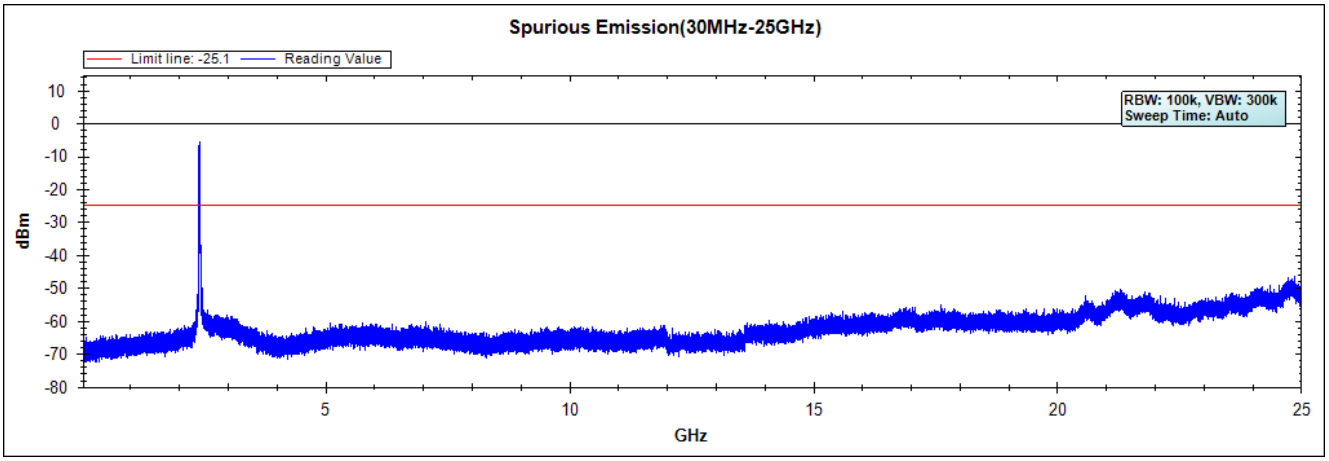
Channel 11 (2462MHz) 30MHz -25GHz-Chain B



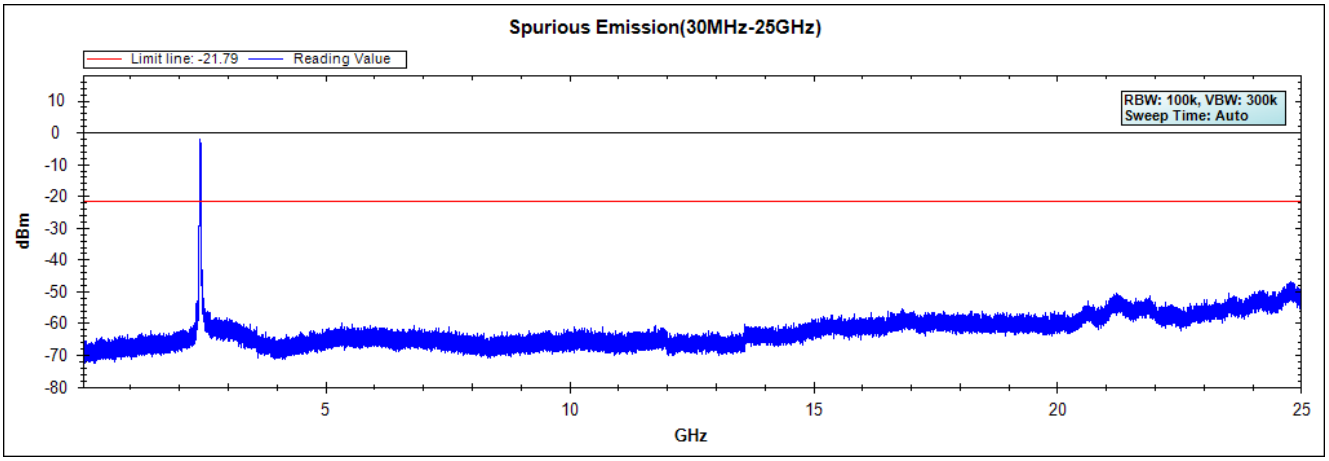
Note: The above test pattern is synthesized by multiple of the frequency range.

Product : Medical Cart Computer
Test Item : RF Antenna Conducted Spurious
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (19”+22”+24”)

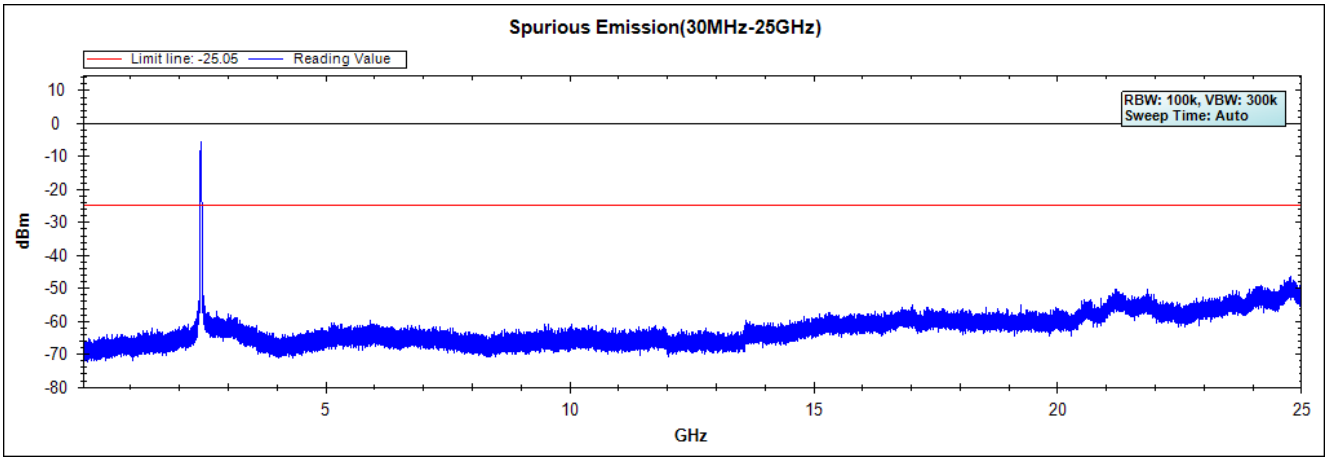
Channel 03 (2422MHz) 30MHz -25GHz-Chain A



Channel 06 (2437MHz) 30MHz -25GHz-Chain A

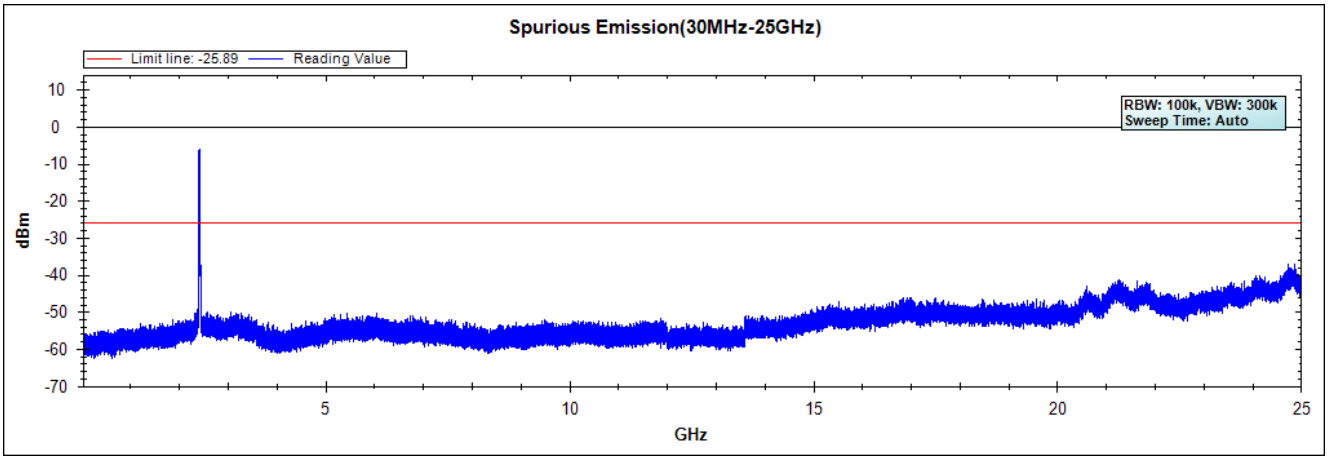


Channel 09 (2452MHz) 30MHz -25GHz-Chain A

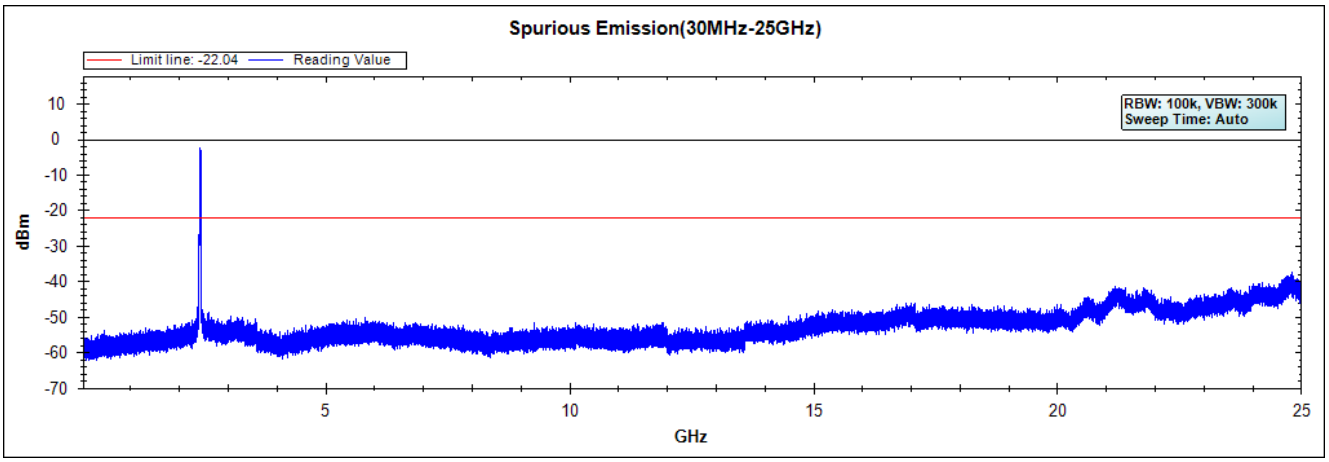


Note: The above test pattern is synthesized by multiple of the frequency range.

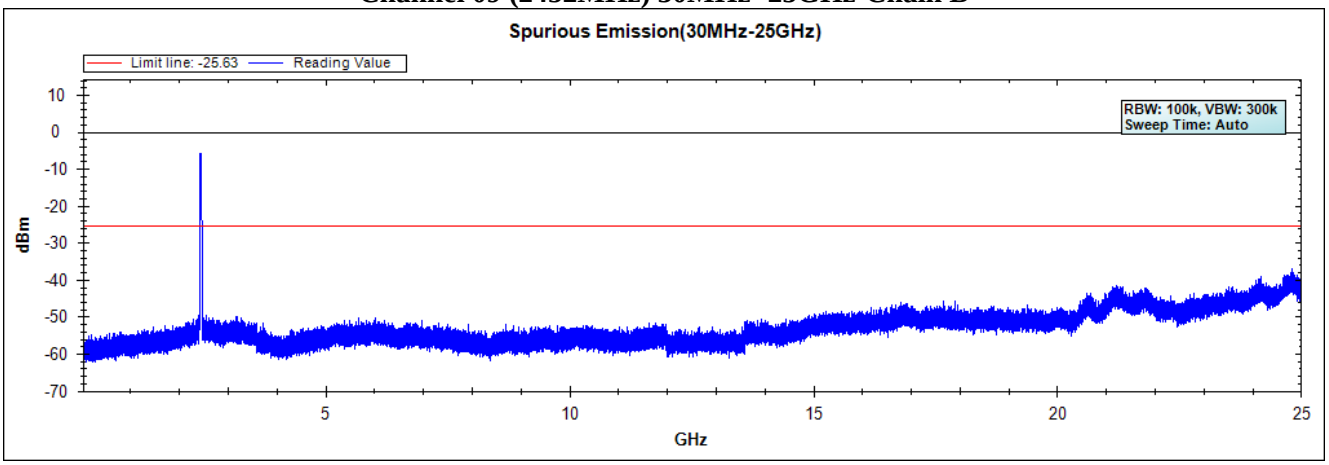
Channel 03 (2422MHz) 30MHz -25GHz-Chain B



Channel 06 (2437MHz) 30MHz -25GHz-Chain B



Channel 09 (2452MHz) 30MHz -25GHz-Chain B



Note: The above test pattern is synthesized by multiple of the frequency range.

6. Band Edge

6.1. Test Equipment

RF Conducted Measurement

The following test equipments are used during the band edge tests:

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

RF Radiated Measurement:

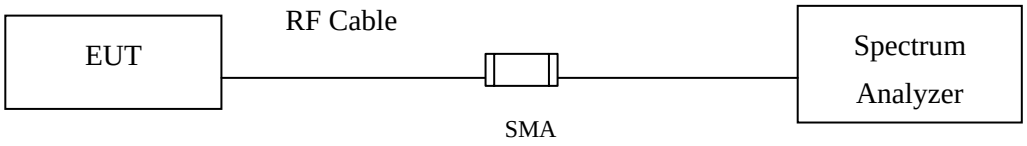
The following test equipments are used during the band edge tests:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒CB # 8	X	Spectrum Analyzer	R&S	FSP40/ 100339	Oct, 2015
	X	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar, 2016
	X	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan, 2016
	X	Horn Antenna	TRC	AH-0801/95051	Aug, 2015
	X	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan, 2016
	X	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul, 2015
	X	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul, 2015

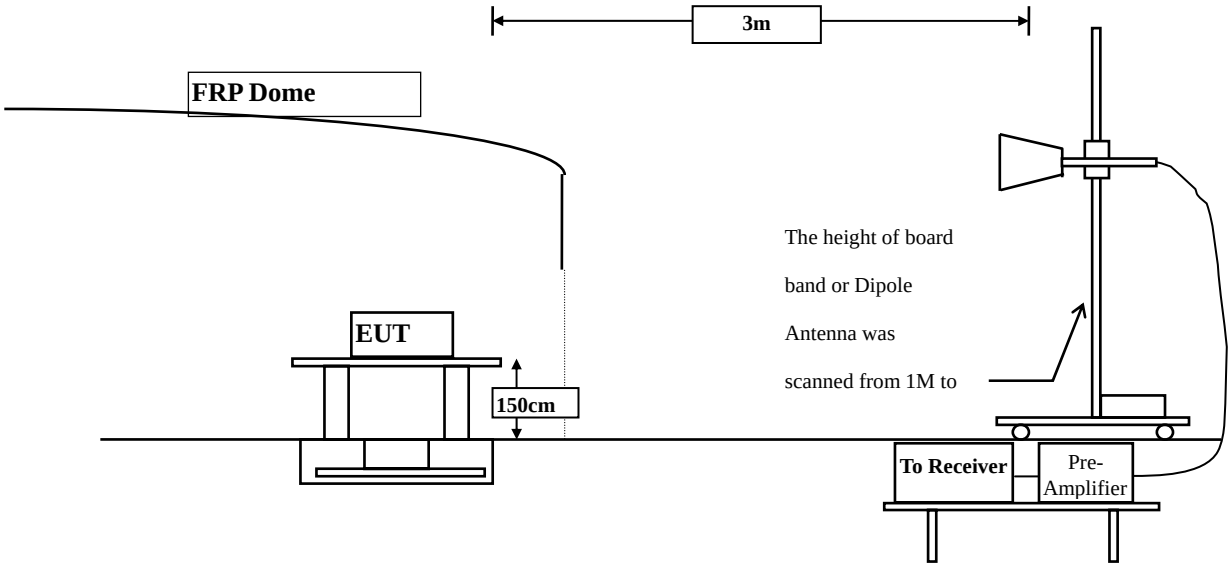
Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

6.2. Test Setup

RF Conducted Measurement



RF Radiated Measurement:



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 30dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.
The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.

6.5. Uncertainty

± 3.9 dB above 1GHz
± 3.8 dB below 1GHz

6.6. Test Result of Band Edge

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (19")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	31.509	27.290	58.799	74.00	54.00	Pass
01 (Peak)	2396.522	31.540	29.820	61.360	--	--	--
01 (Peak)	2400.000	31.561	28.349	59.910	--	--	--
01 (Peak)	2413.043	31.646	70.019	101.665	--	--	--
01 (Average)	2387.246	31.498	16.105	47.603	74.00	54.00	Pass
01 (Average)	2390.000	31.509	15.263	46.772	74.00	54.00	Pass
01 (Average)	2396.377	31.539	19.915	51.454	--	--	--
01 (Average)	2400.000	31.561	16.035	47.596	--	--	--
01 (Average)	2412.754	31.644	66.445	98.089	--	--	--

Figure Channel 01: Horizontal (Peak)

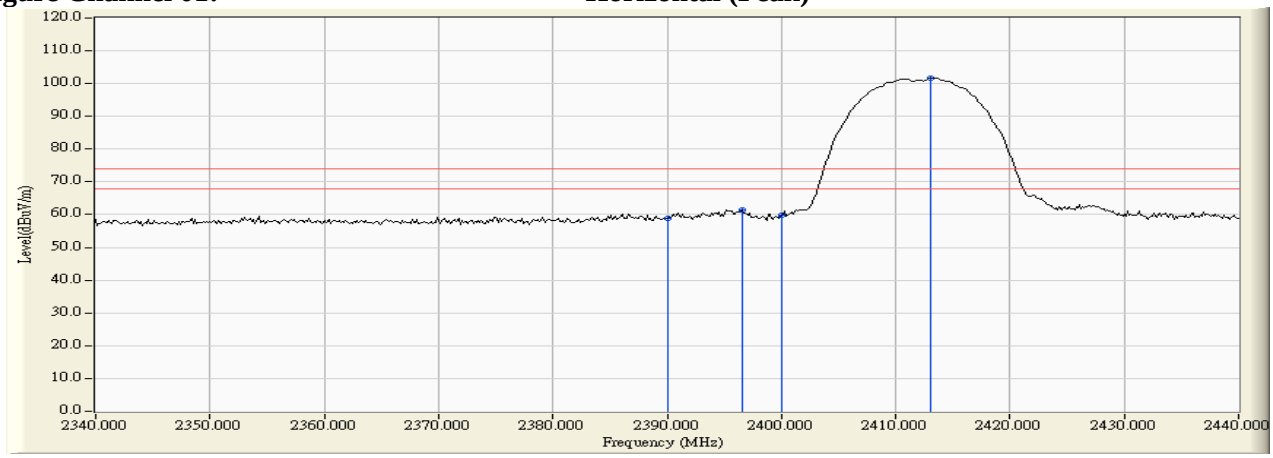
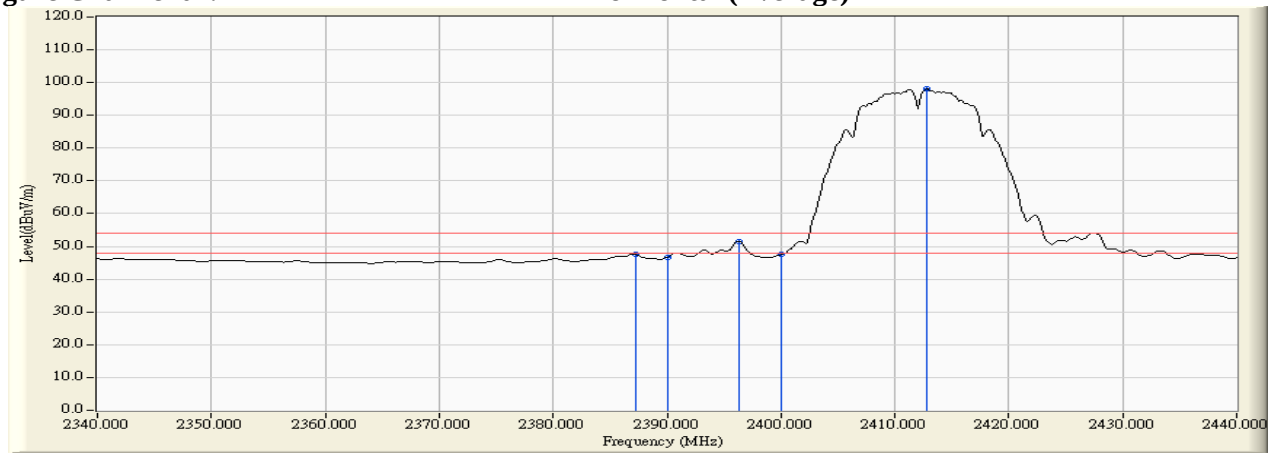


Figure Channel 01: Horizontal (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (19")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	30.915	29.676	60.591	74.00	54.00	Pass
01 (Peak)	2397.971	30.907	30.370	61.277	--	--	--
01 (Peak)	2400.000	30.912	29.327	60.239	--	--	--
01 (Peak)	2413.043	30.957	73.439	104.395	--	--	--
01 (Average)	2390.000	30.915	15.011	45.926	74.00	54.00	Pass
01 (Average)	2393.478	30.899	15.952	46.851	--	--	--
01 (Average)	2400.000	30.912	15.389	46.301	--	--	--
01 (Average)	2412.754	30.955	69.667	100.621	--	--	--

Figure Channel 01: Vertical (Peak)

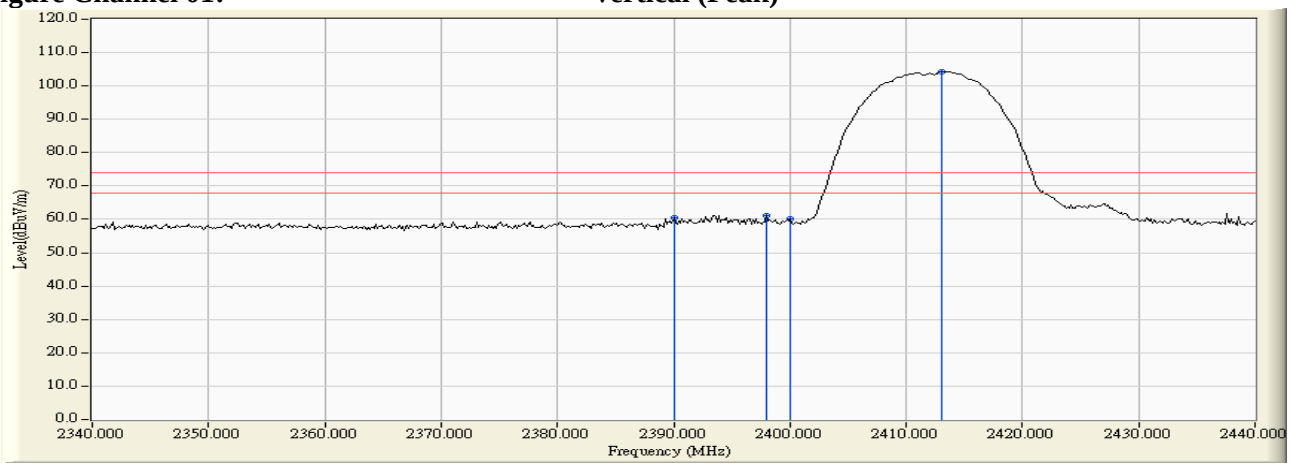
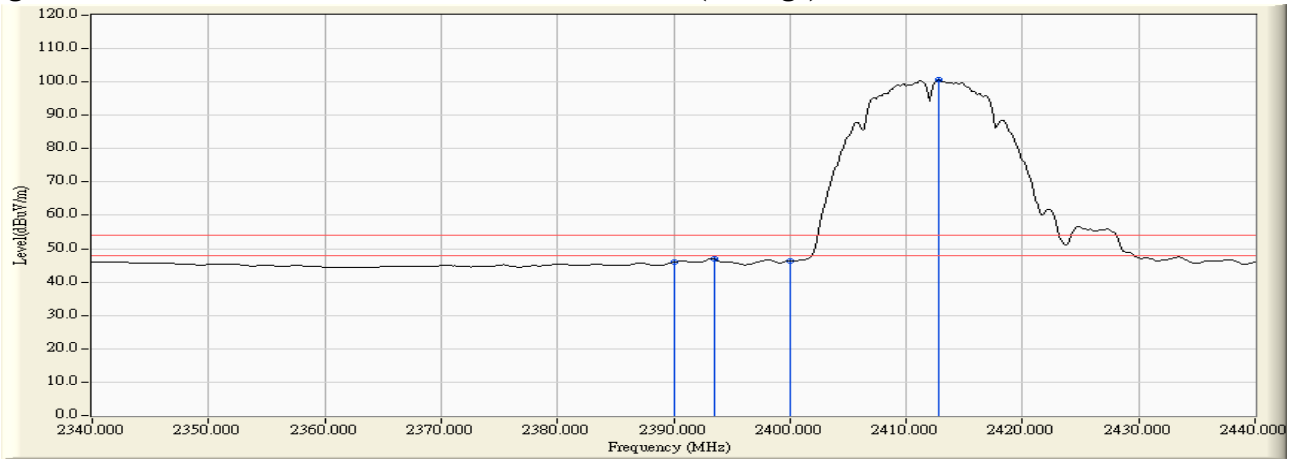


Figure Channel 01: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (19")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2460.891	32.011	69.816	101.827	--	--	--
11 (Peak)	2483.500	32.182	28.382	60.564	74.00	54.00	Pass
11 (Average)	2461.181	32.014	66.276	98.289	--	--	--
11 (Average)	2483.500	32.182	15.621	47.803	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

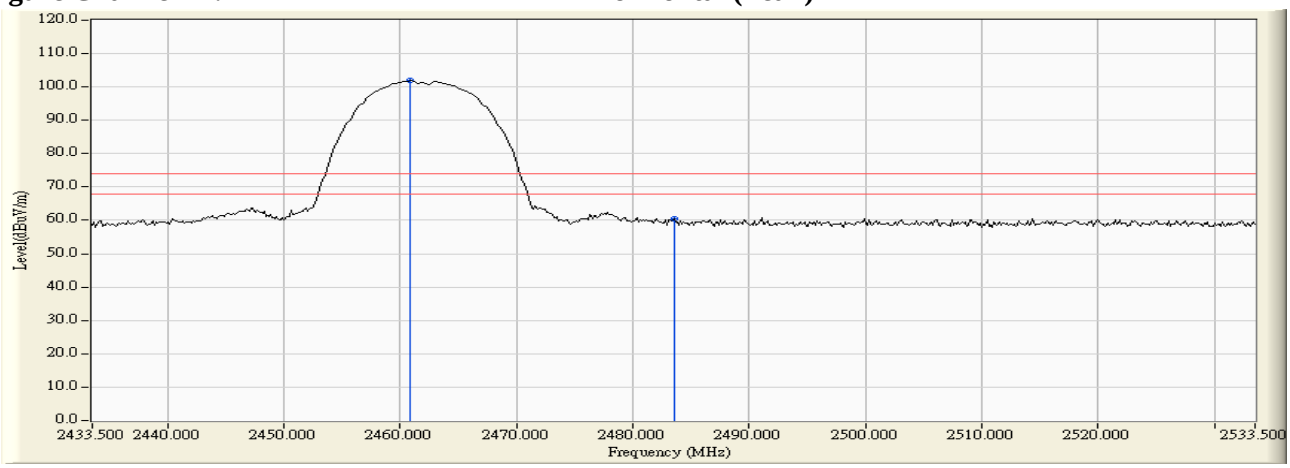
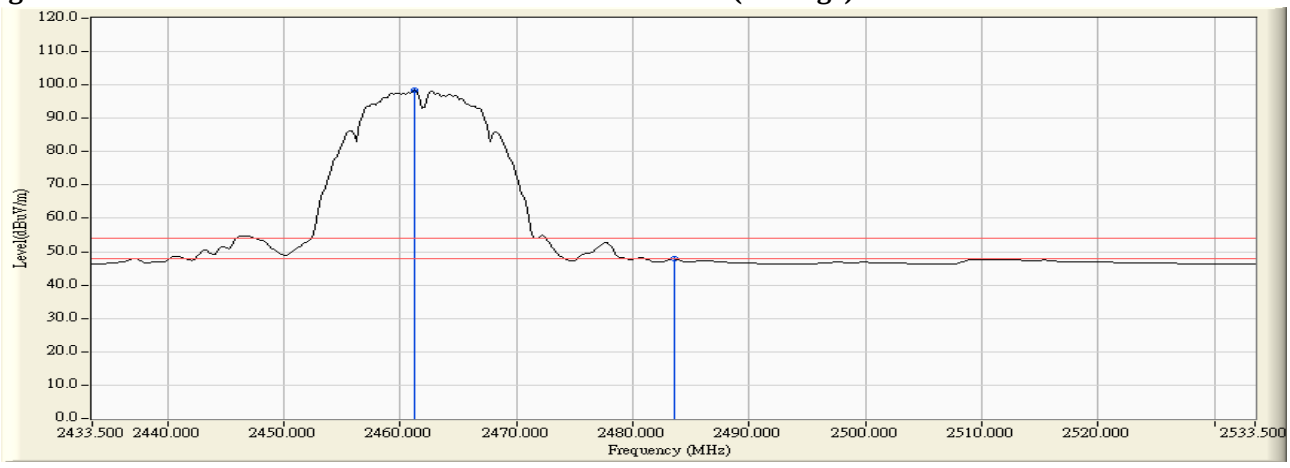


Figure Channel 11: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (19")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2460.891	31.283	71.803	103.086	--	--	--
11 (Peak)	2483.500	31.435	28.196	59.631	74.00	54.00	Pass
11 (Peak)	2486.543	31.457	29.154	60.610	74.00	54.00	Pass
11 (Average)	2461.181	31.285	68.164	99.449	--	--	--
11 (Average)	2483.500	31.435	17.055	48.490	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)

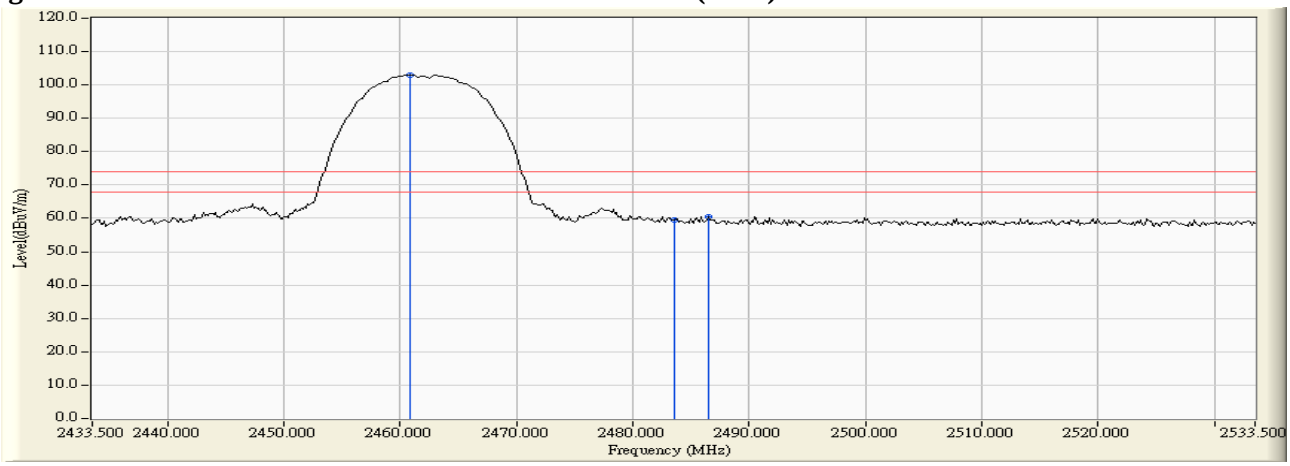
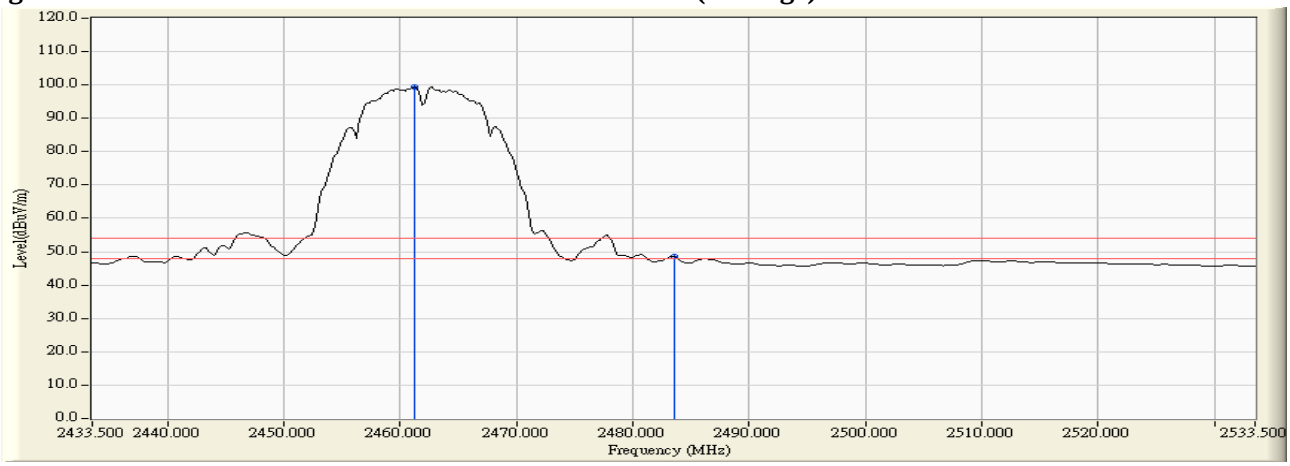


Figure Channel 11: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (19")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	31.509	26.819	58.328	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	46.091	77.652	--	--	--
01 (Peak)	2414.348	31.657	72.854	104.510	--	--	--
01(Average)	2390.000	31.509	14.542	46.051	74.00	54.00	Pass
01(Average)	2400.000	31.561	27.004	58.565	--	--	--
01(Average)	2413.478	31.649	61.071	92.720	--	--	--

Figure Channel 01: Horizontal (Peak)

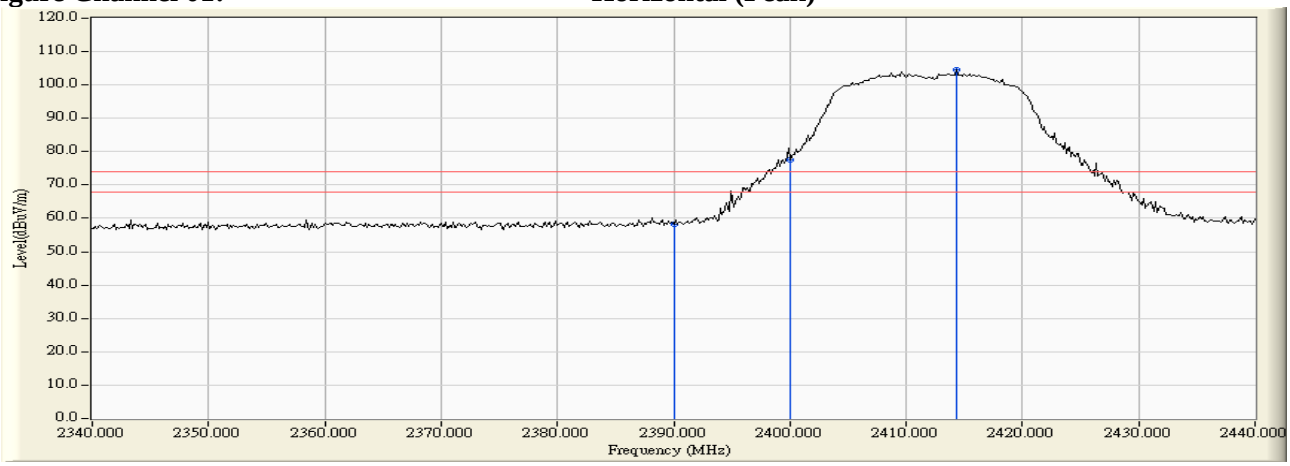
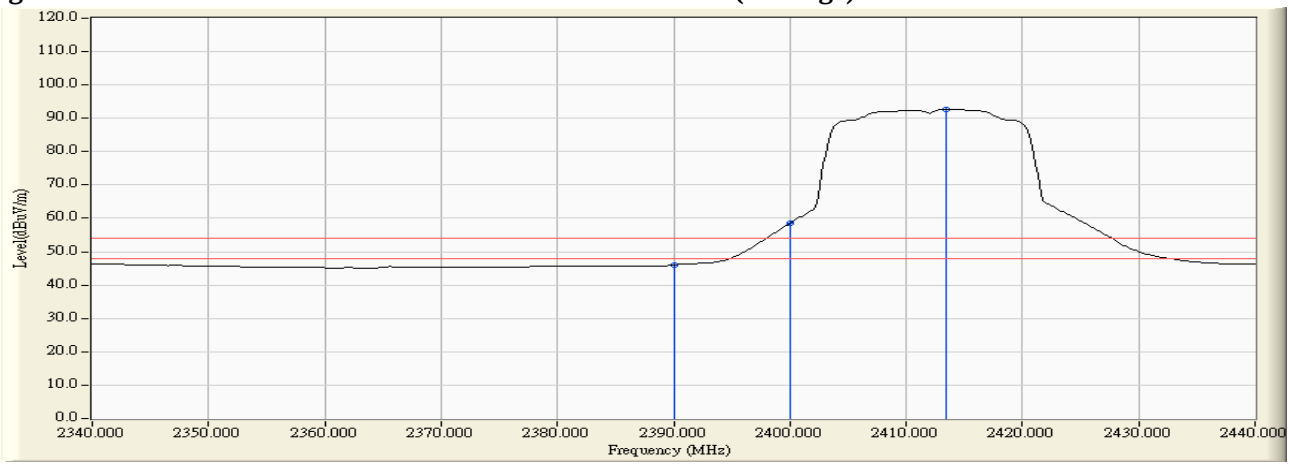


Figure Channel 01: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (19")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	30.915	27.244	58.159	74.00	54.00	Pass
01 (Peak)	2399.565	30.911	49.635	80.546	--	--	--
01 (Peak)	2400.000	30.912	48.230	79.142	--	--	--
01 (Peak)	2415.797	30.975	74.375	105.350	--	--	--
01 (Average)	2390.000	30.915	15.048	45.963	74.00	54.00	Pass
01 (Average)	2400.000	30.912	28.809	59.721	--	--	--
01 (Average)	2413.623	30.960	63.412	94.372	--	--	--

Figure Channel 01: Vertical (Peak)

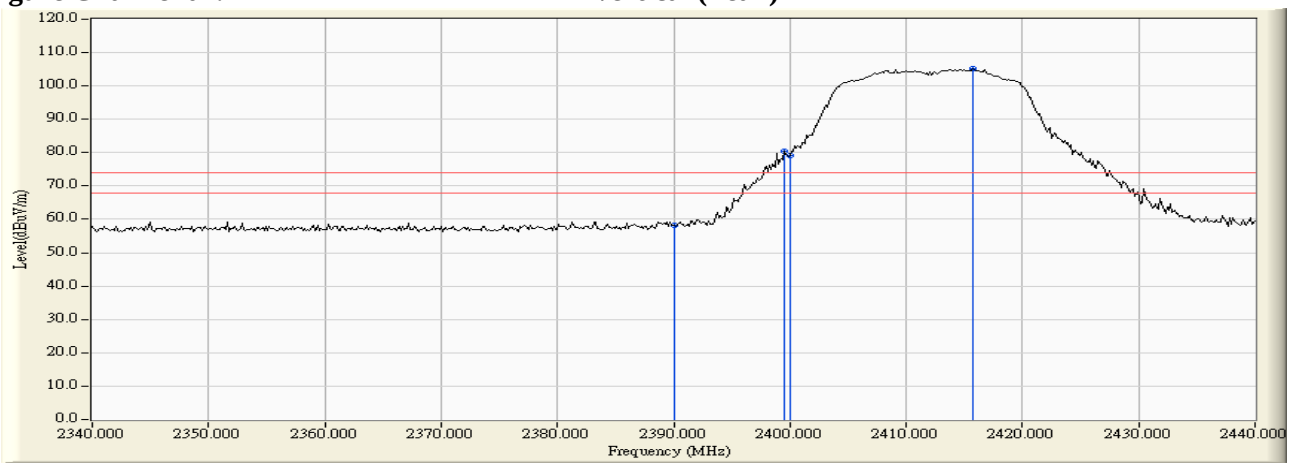
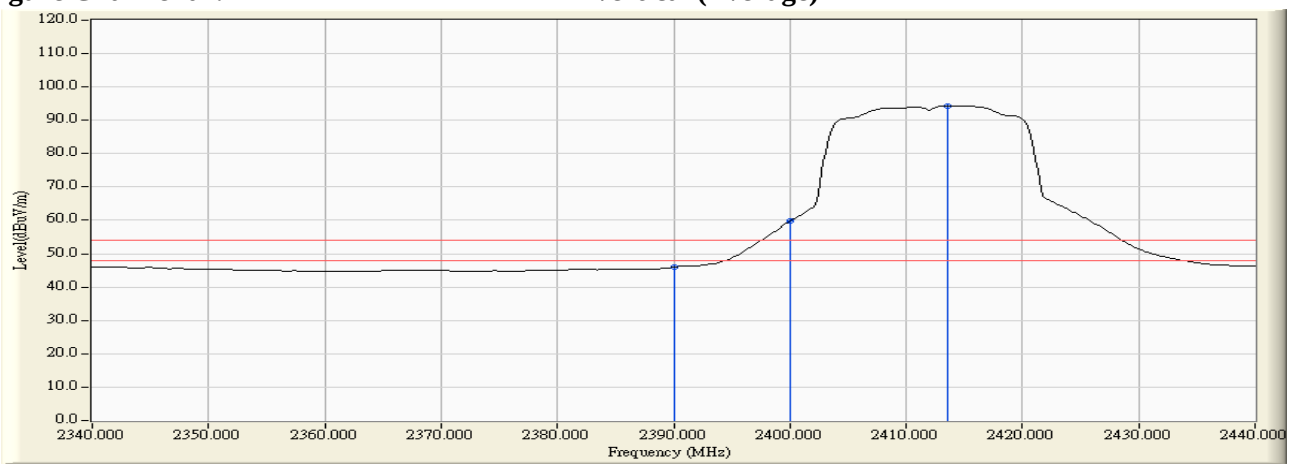


Figure Channel 01: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (19")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2459.442	32.000	71.175	103.175	--	--	--
11 (Peak)	2483.500	32.182	27.769	59.951	74.00	54.00	Pass
11 (Average)	2460.167	32.005	59.490	91.496	--	--	--
11 (Average)	2483.500	32.182	14.593	46.775	74.00	54.00	Pass
11 (Average)	2509.587	32.253	15.673	47.926	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

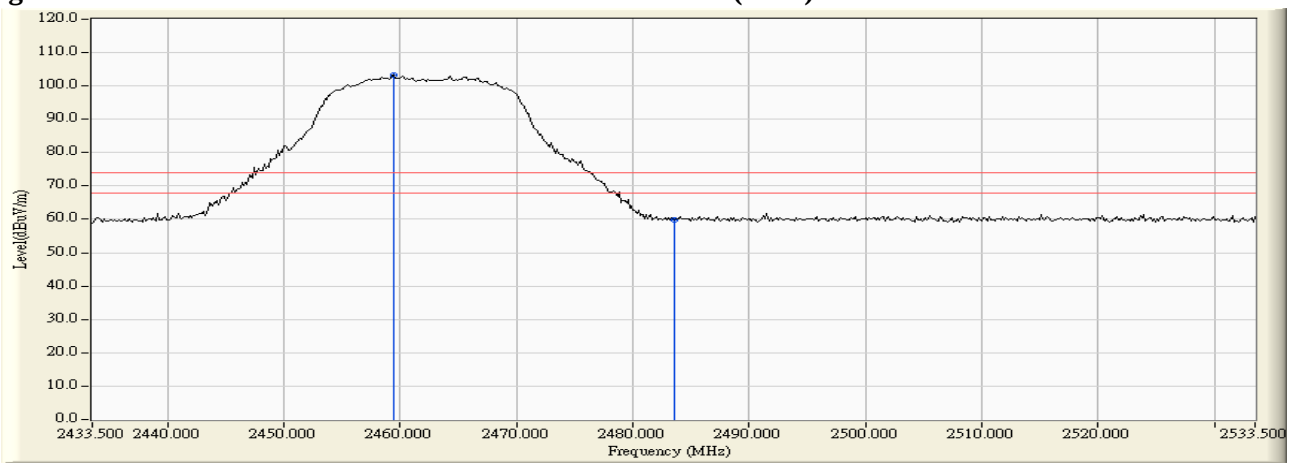
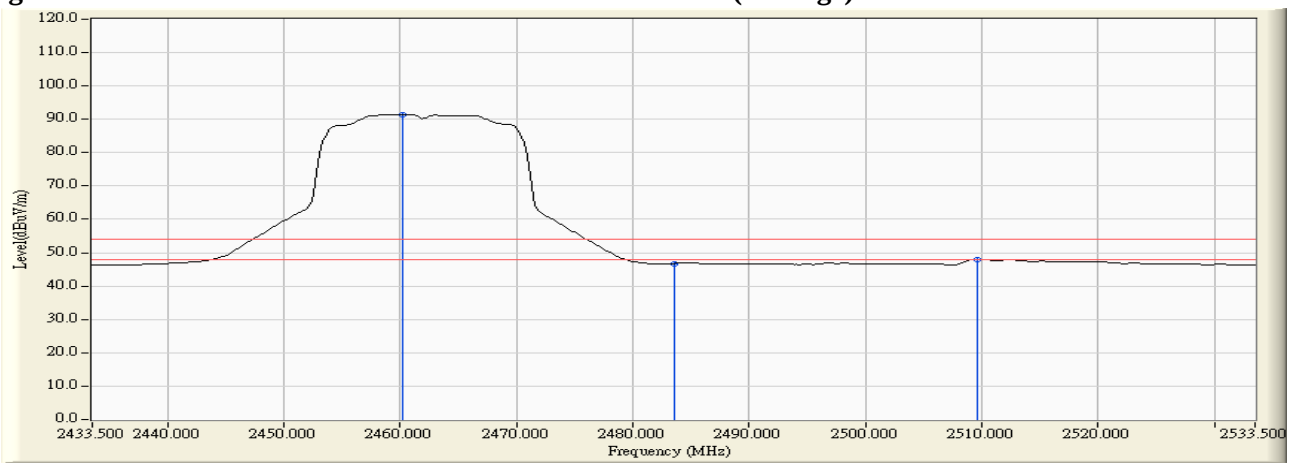


Figure Channel 11: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (19")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2459.877	31.276	72.551	103.827	--	--	--
11 (Peak)	2483.500	31.435	27.327	58.762	74.00	54.00	Pass
11 (Peak)	2487.848	31.465	29.081	60.546	74.00	54.00	Pass
11 (Average)	2459.877	31.276	61.309	92.585	--	--	--
11 (Average)	2483.500	31.435	14.900	46.335	74.00	54.00	Pass
11 (Average)	2508.717	31.544	15.351	46.896	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)

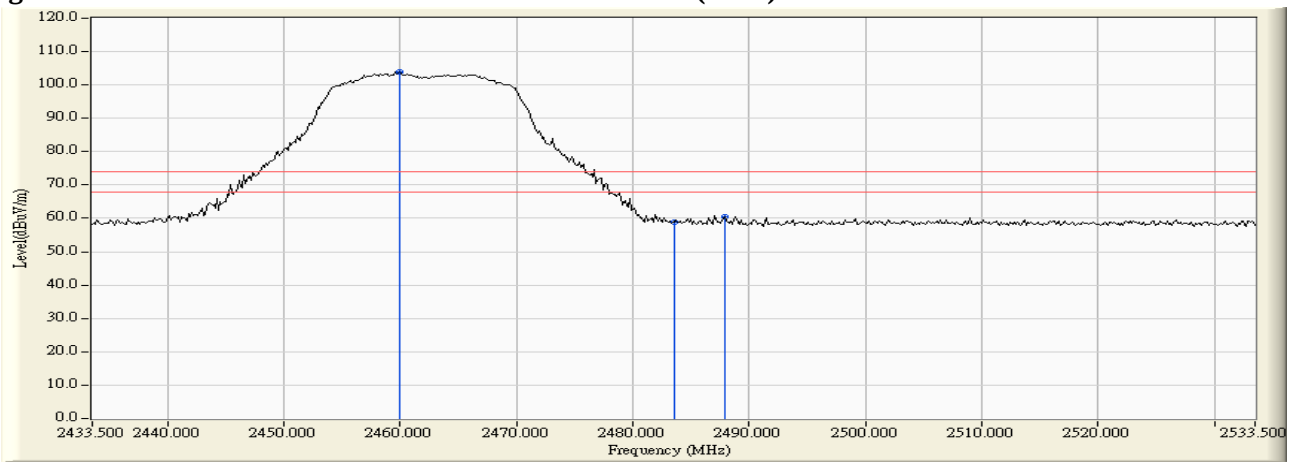
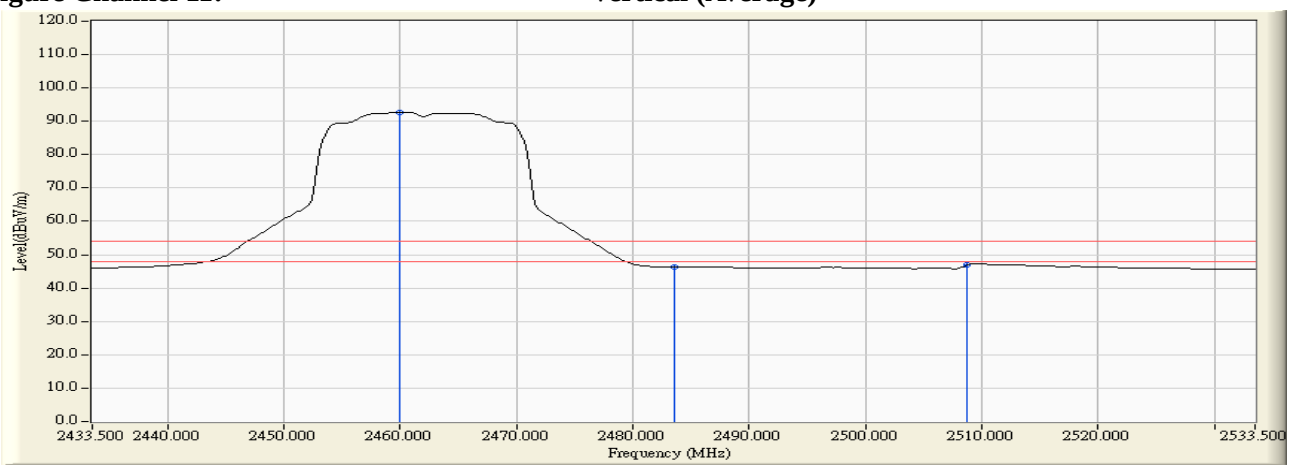


Figure Channel 11: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (19")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	31.509	27.799	59.308	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	46.968	78.529	--	--	--
01 (Peak)	2413.188	31.647	73.429	105.076	--	--	--
01 (Average)	2390.000	31.509	14.671	46.180	74.00	54.00	Pass
01 (Average)	2400.000	31.561	27.585	59.146	--	--	--
01 (Average)	2413.623	31.650	59.682	91.333	--	--	--

Figure Channel 01: Horizontal (Peak)

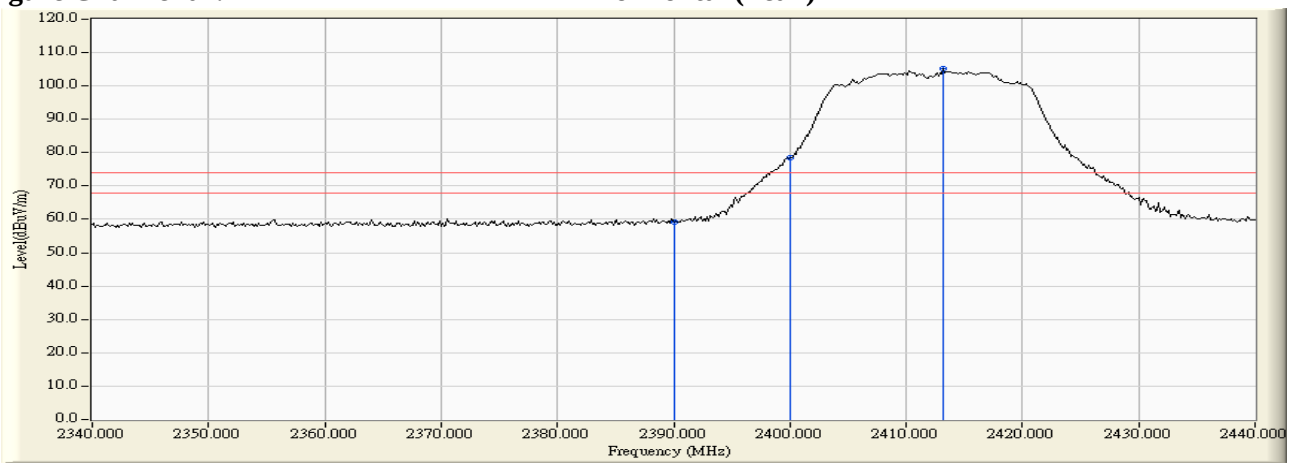
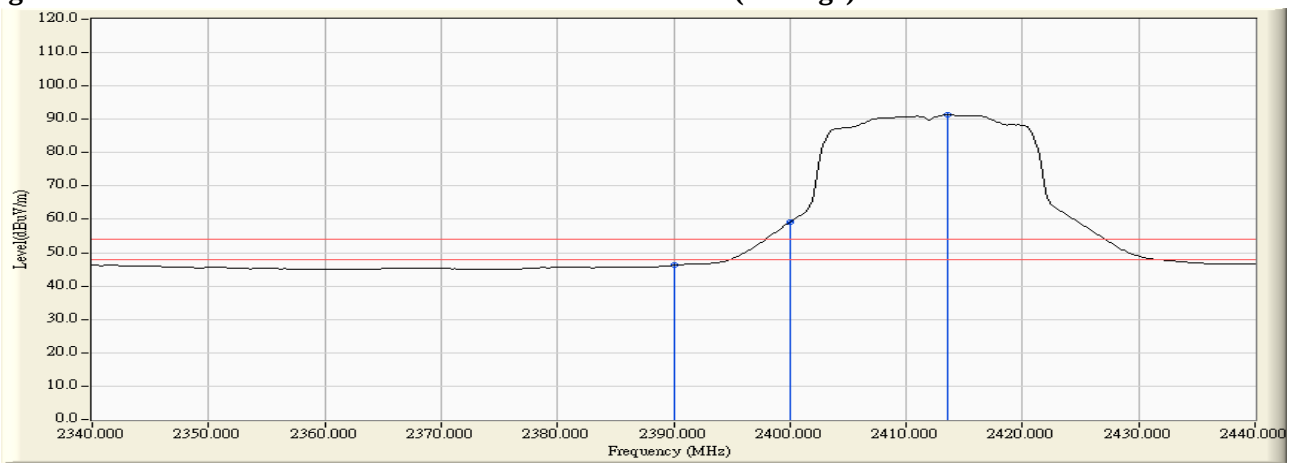


Figure Channel 01: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (19")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	30.915	29.340	60.255	74.00	54.00	Pass
01 (Peak)	2399.565	30.911	48.527	79.438	--	--	--
01 (Peak)	2400.000	30.912	46.555	77.467	--	--	--
01 (Peak)	2414.058	30.963	72.582	103.545	--	--	--
01 (Average)	2390.000	30.915	14.693	45.608	74.00	54.00	Pass
01 (Average)	2400.000	30.912	26.206	57.118	--	--	--
01 (Average)	2413.623	30.960	59.470	90.430	--	--	--

Figure Channel 01: Vertical (Peak)

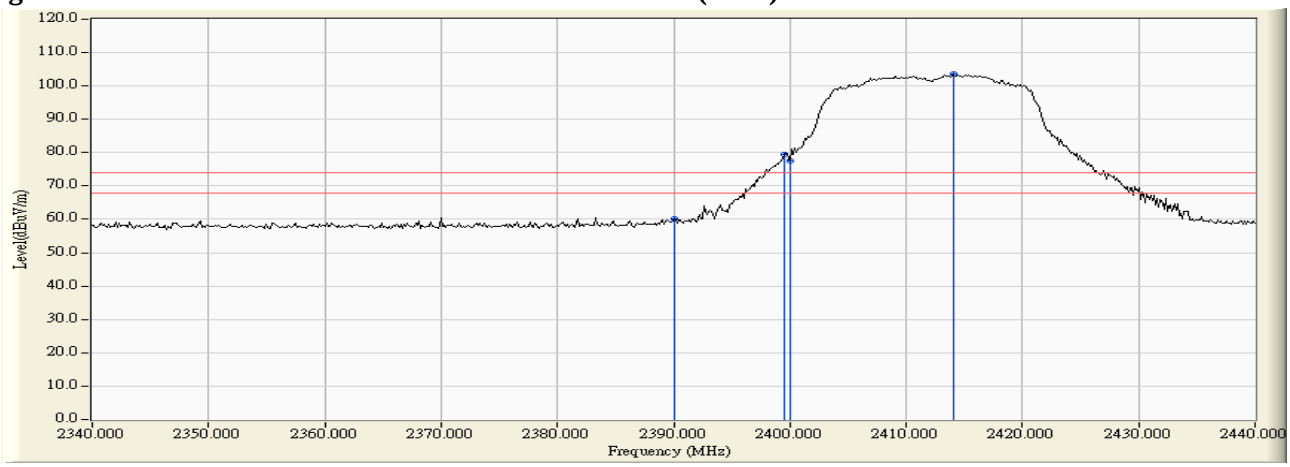
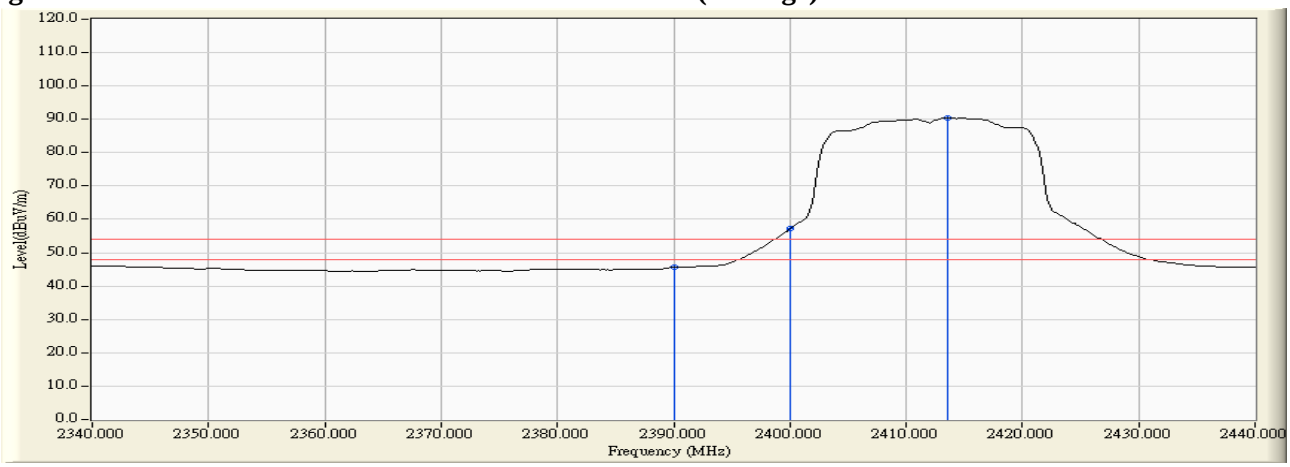


Figure Channel 01: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (19")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2463.500	32.031	73.578	105.609	--	--	--
11 (Peak)	2483.500	32.182	35.415	67.597	74.00	54.00	Pass
11 (Peak)	2484.225	32.187	37.164	69.352	74.00	54.00	Pass
11 (Average)	2460.022	32.004	60.515	92.519	--	--	--
11 (Average)	2483.500	32.182	19.323	51.505	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

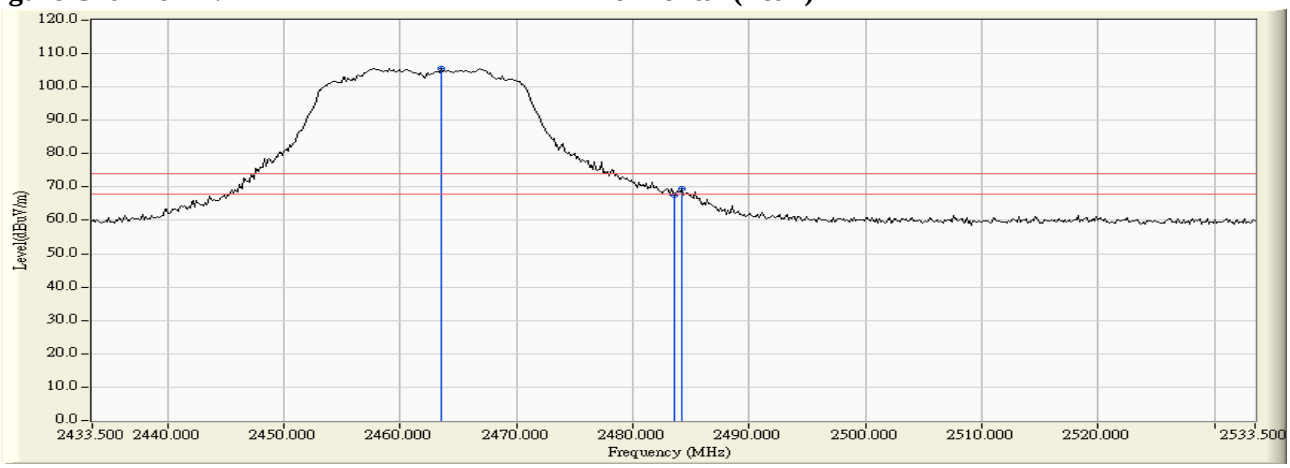
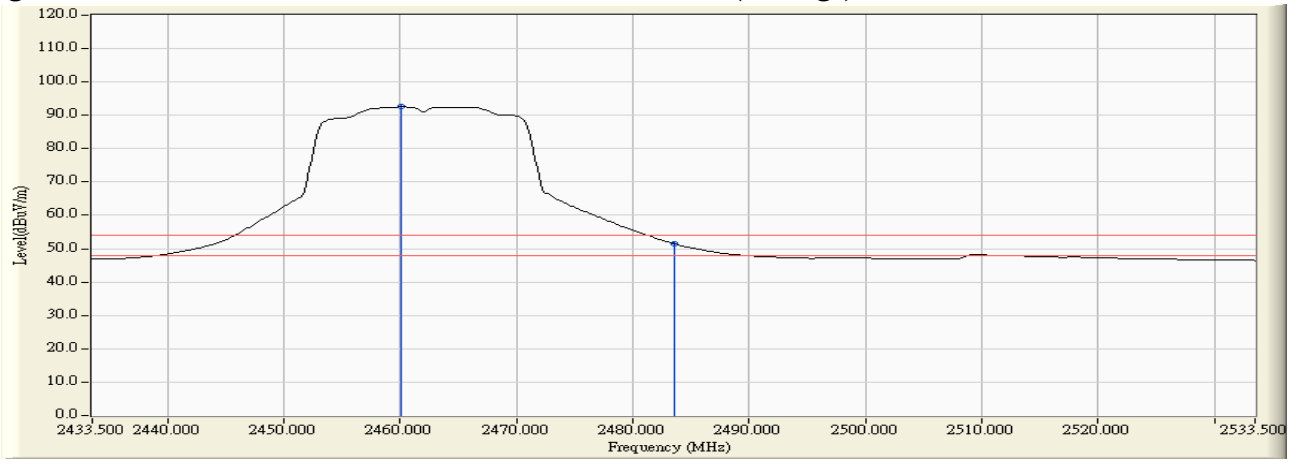


Figure Channel 11: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (19")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2459.152	31.271	73.241	104.512	--	--	--
11 (Peak)	2483.500	31.435	29.045	60.480	74.00	54.00	Pass
11 (Peak)	2484.370	31.441	30.611	62.052	74.00	54.00	Pass
11 (Average)	2460.601	31.281	60.090	91.371	--	--	--
11 (Average)	2483.500	31.435	15.600	47.035	74.00	54.00	Pass
11 (Average)	2509.297	31.546	15.798	47.344	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)

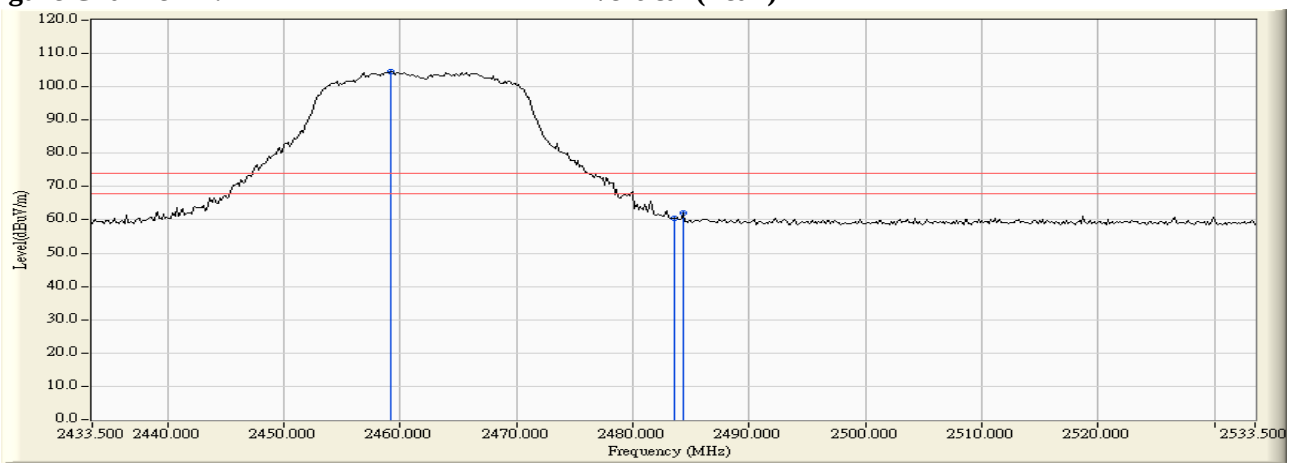
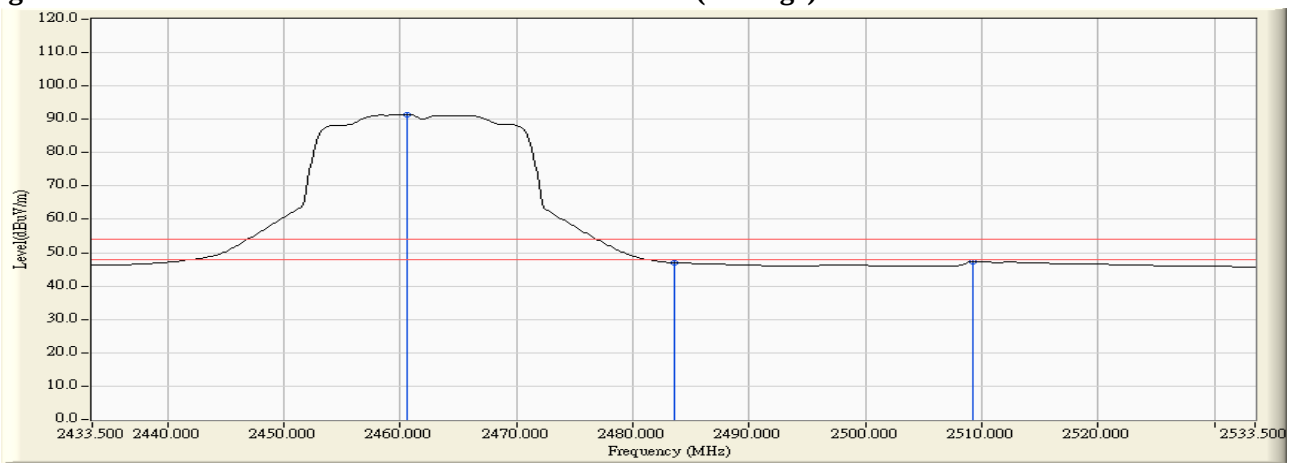


Figure Channel 11: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (19")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
03 (Peak)	2390.000	31.509	27.271	58.780	74.00	54.00	Pass
03 (Peak)	2400.000	31.561	39.315	70.876	--	--	--
03 (Peak)	2429.710	31.774	68.354	100.128	--	--	--
03 (Average)	2390.000	31.509	14.233	45.742	74.00	54.00	Pass
03 (Average)	2400.000	31.561	24.086	55.647	--	--	--
03 (Average)	2432.754	31.798	53.922	85.719	--	--	--

Figure Channel 03: Horizontal (Peak)

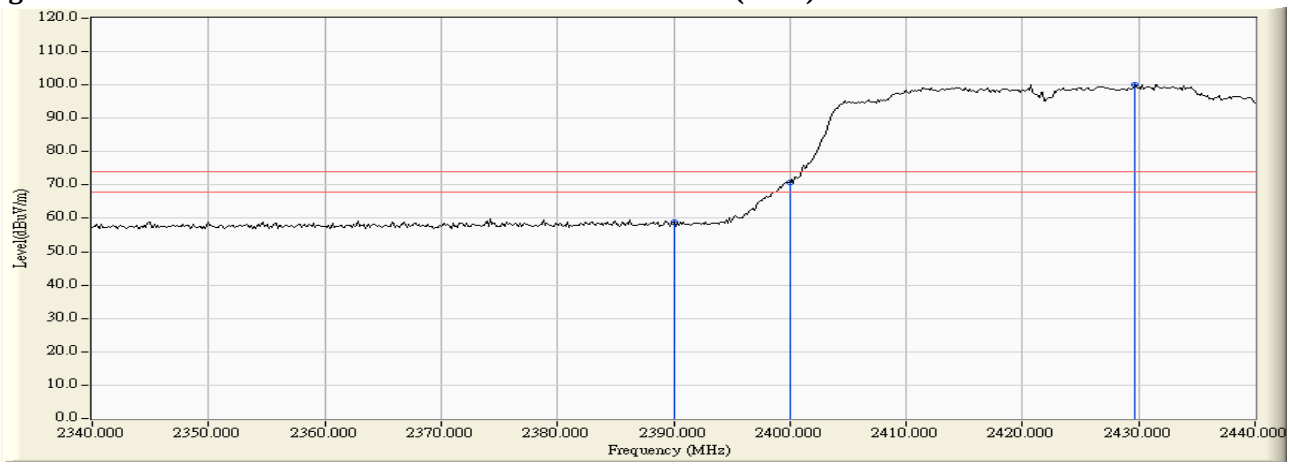
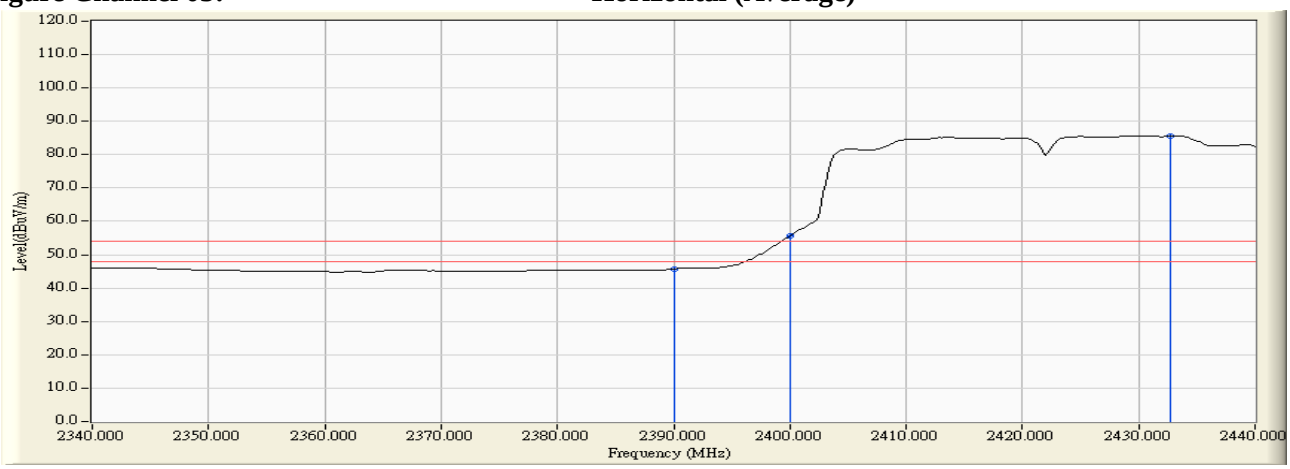


Figure Channel 03: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (19")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
03 (Peak)	2390.000	30.915	28.434	59.349	74.00	54.00	Pass
03 (Peak)	2400.000	30.912	39.907	70.819	--	--	--
03 (Peak)	2429.130	31.066	68.339	99.405	--	--	--
03 (Average)	2344.928	31.124	14.654	45.778	74.00	54.00	Pass
03 (Average)	2390.000	30.915	14.479	45.394	74.00	54.00	Pass
03 (Average)	2400.000	30.912	23.453	54.365	--	--	--
03 (Average)	2430.725	31.076	54.372	85.448	--	--	--

Figure Channel 03: Vertical (Peak)

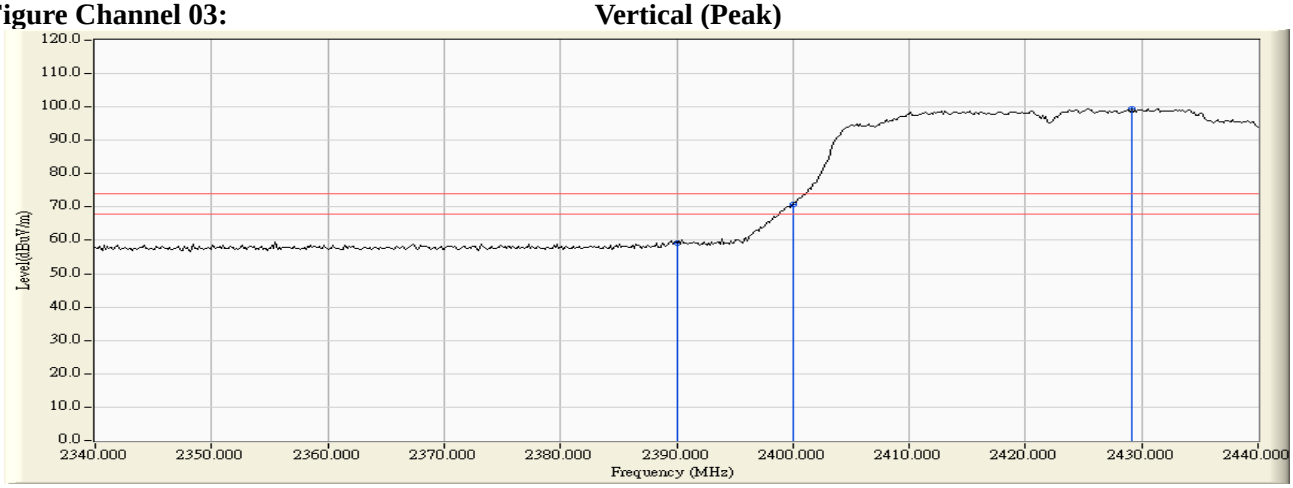
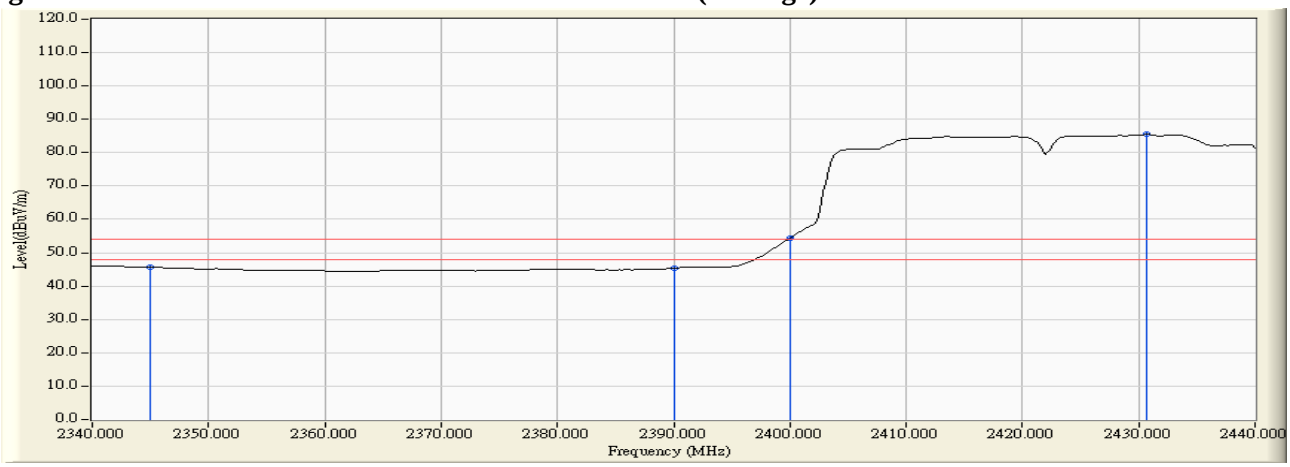


Figure Channel 03: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (19")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
09 (Peak)	2459.732	32.002	68.514	100.516	--	--	--
09 (Peak)	2483.500	32.182	31.665	63.847	74.00	54.00	Pass
09 (Peak)	2489.297	32.226	32.359	64.585	74.00	54.00	Pass
09 (Average)	2460.457	32.008	53.851	85.859	--	--	--
09 (Average)	2483.500	32.182	18.459	50.641	74.00	54.00	Pass

Figure Channel 09: Horizontal (Peak)

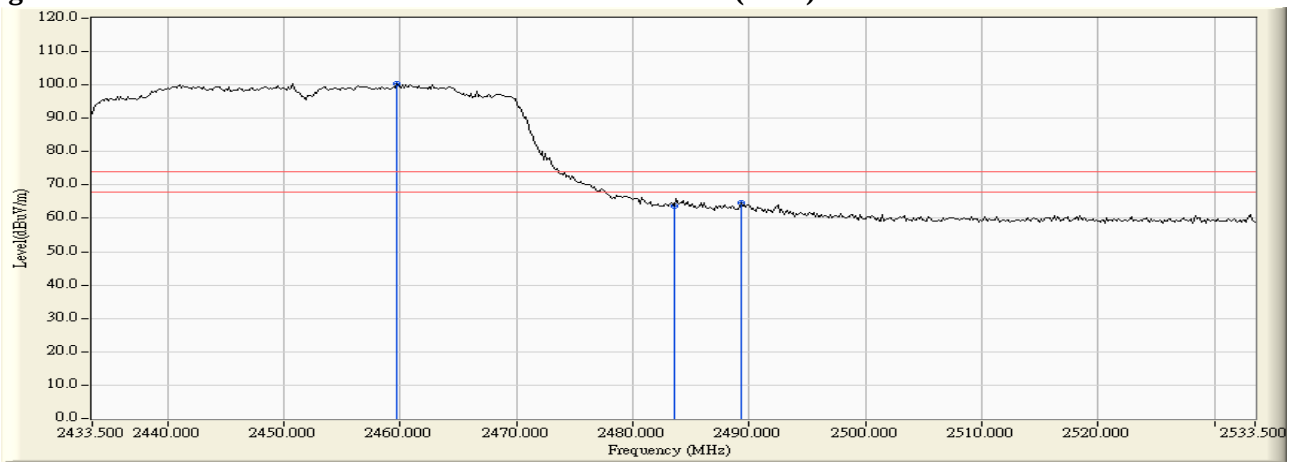
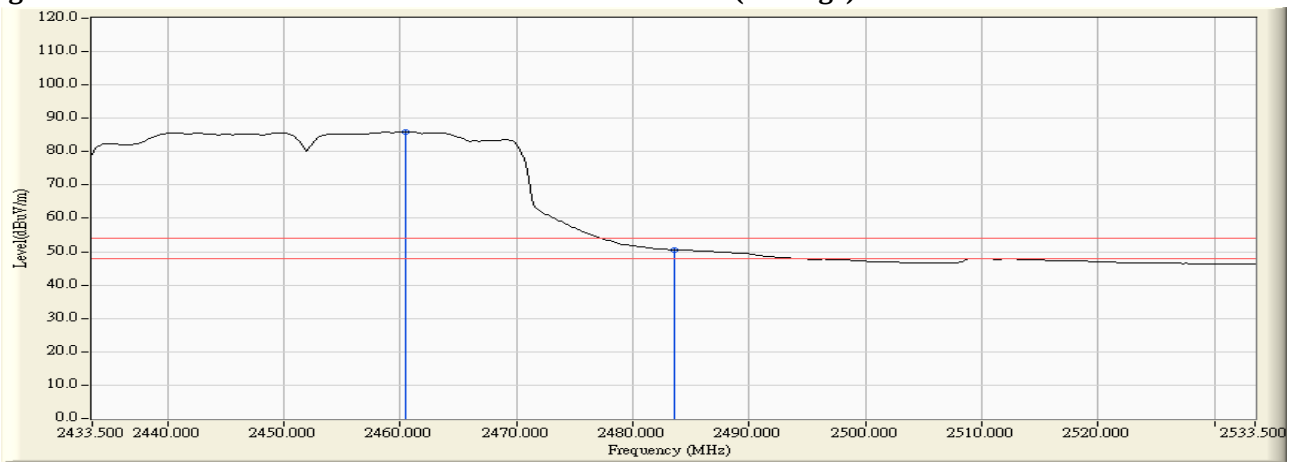


Figure Channel 09: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (19")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
09 (Peak)	2441.471	31.149	68.097	99.246	--	--	--
09 (Peak)	2483.500	31.435	28.024	59.459	74.00	54.00	Pass
09 (Peak)	2509.007	31.544	28.971	60.516	74.00	54.00	Pass
09 (Average)	2440.601	31.144	54.129	85.272	--	--	--
09 (Average)	2483.500	31.435	15.691	47.126	74.00	54.00	Pass
09 (Average)	2509.152	31.546	15.629	47.174	74.00	54.00	Pass

Figure Channel 09: Vertical (Peak)

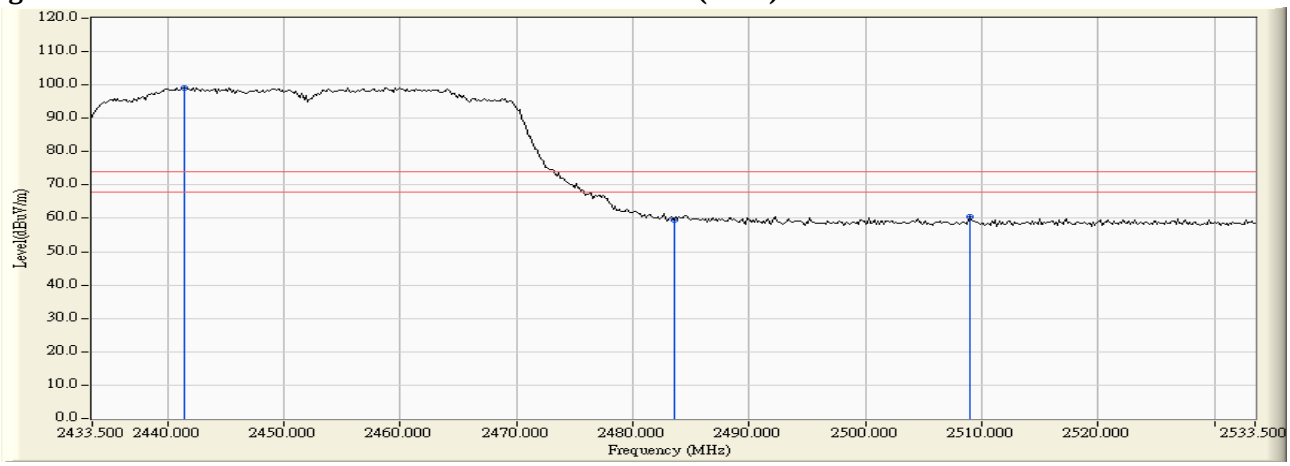
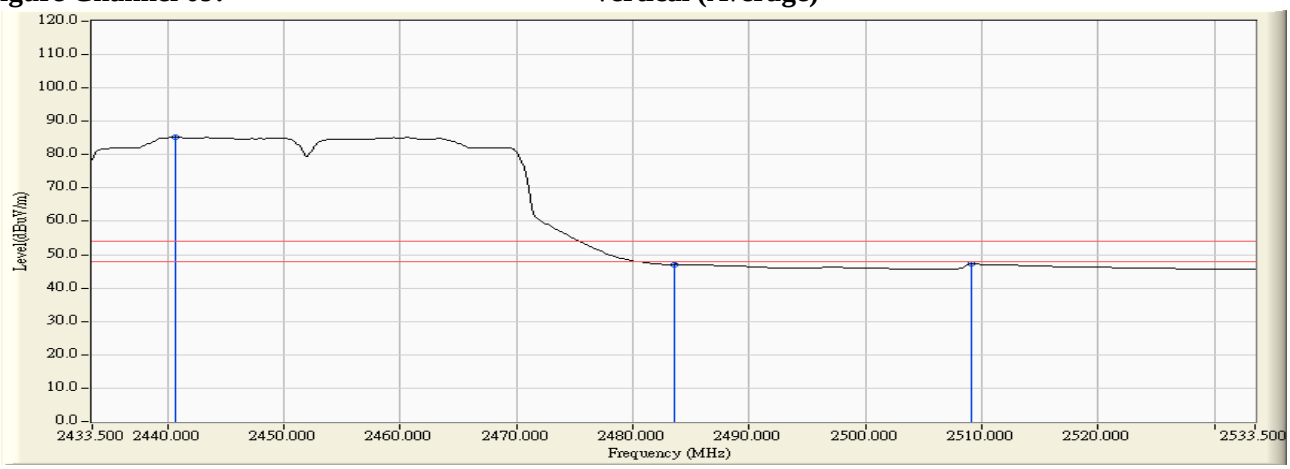


Figure Channel 09: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (22")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2380.580	-1.167	50.976	49.808	74.00	54.00	Pass
01 (Peak)	2390.000	-1.131	50.728	49.597	74.00	54.00	Pass
01 (Peak)	2398.261	-1.092	63.467	62.375	--	--	--
01 (Peak)	2400.000	-1.084	60.233	59.150	--	--	--
01 (Peak)	2413.043	-1.009	100.701	99.692	--	--	--
01 (Average)	2389.130	-1.134	41.458	40.324	74.00	54.00	Pass
01 (Average)	2390.000	-1.131	40.590	39.459	74.00	54.00	Pass
01 (Average)	2398.116	-1.093	58.547	57.454	--	--	--
01 (Average)	2400.000	-1.084	51.313	50.230	--	--	--
01 (Average)	2412.754	-1.011	97.217	96.206	--	--	--

Figure Channel 01: Horizontal (Peak)

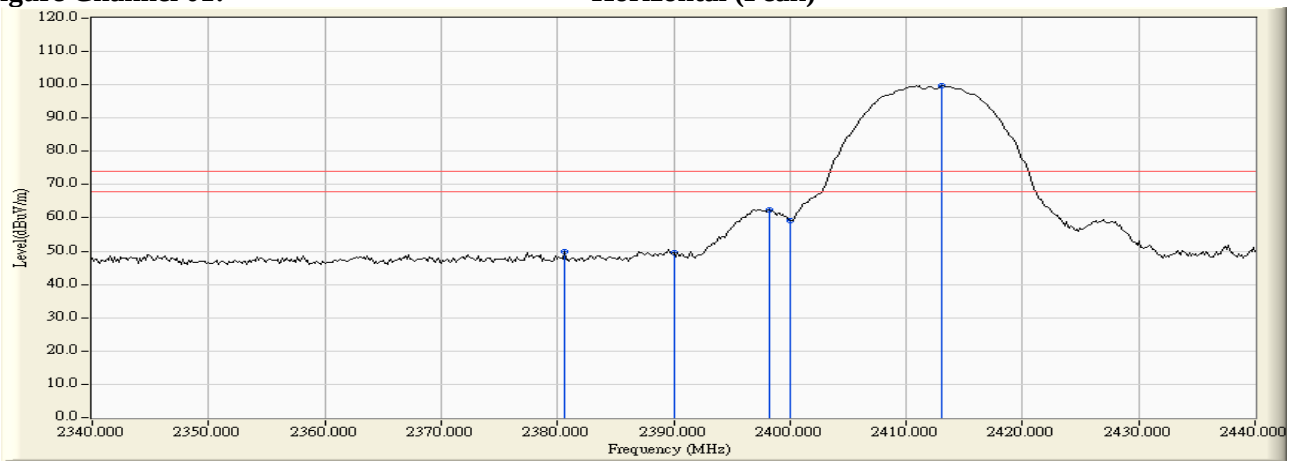
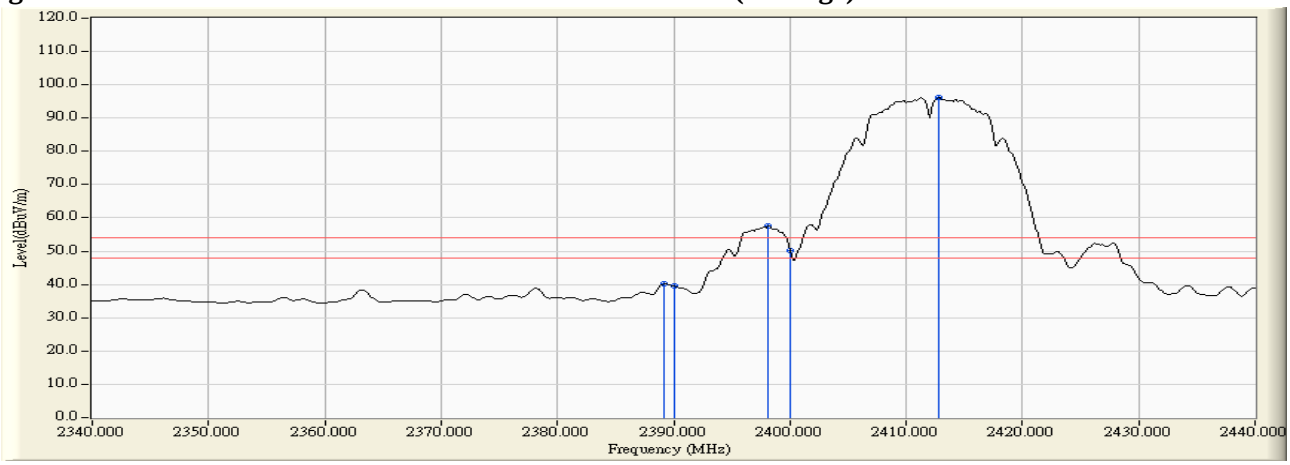


Figure Channel 01: Horizontal (Average)



Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (22")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2377.971	-1.668	50.082	48.413	74.00	54.00	Pass
01 (Peak)	2390.000	-1.725	49.411	47.686	74.00	54.00	Pass
01 (Peak)	2397.971	-1.736	57.781	56.045	--	--	--
01 (Peak)	2400.000	-1.733	54.862	53.130	--	--	--
01 (Peak)	2413.043	-1.698	96.715	95.016	--	--	--
01 (Average)	2377.826	-1.668	37.053	35.385	74.00	54.00	Pass
01 (Average)	2390.000	-1.725	36.769	35.044	74.00	54.00	Pass
01 (Average)	2398.261	-1.735	52.007	50.272	--	--	--
01 (Average)	2400.000	-1.733	44.841	43.109	--	--	--
01 (Average)	2412.754	-1.700	92.236	90.535	--	--	--

Figure Channel 01: Vertical (Peak)

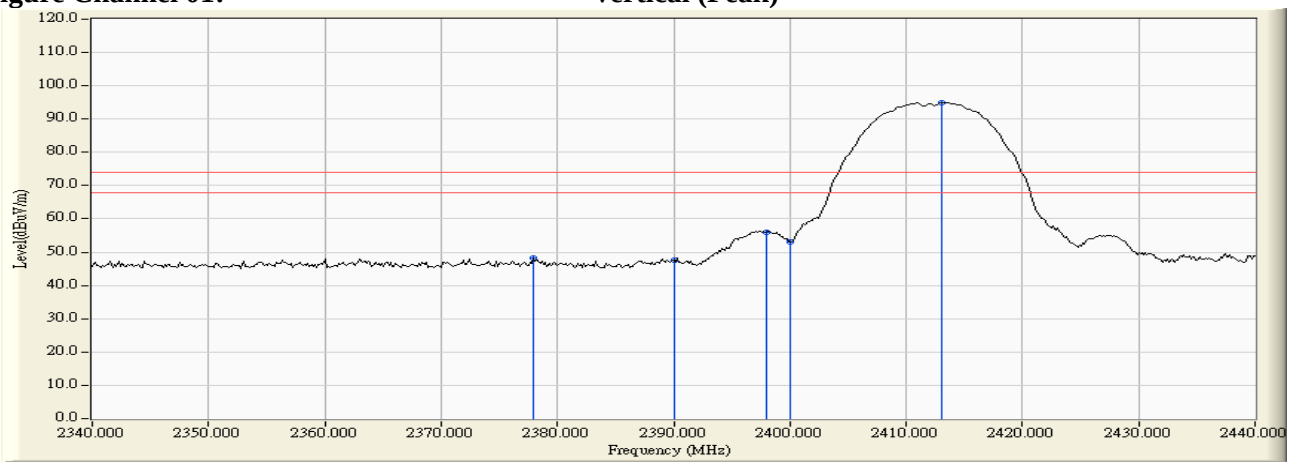
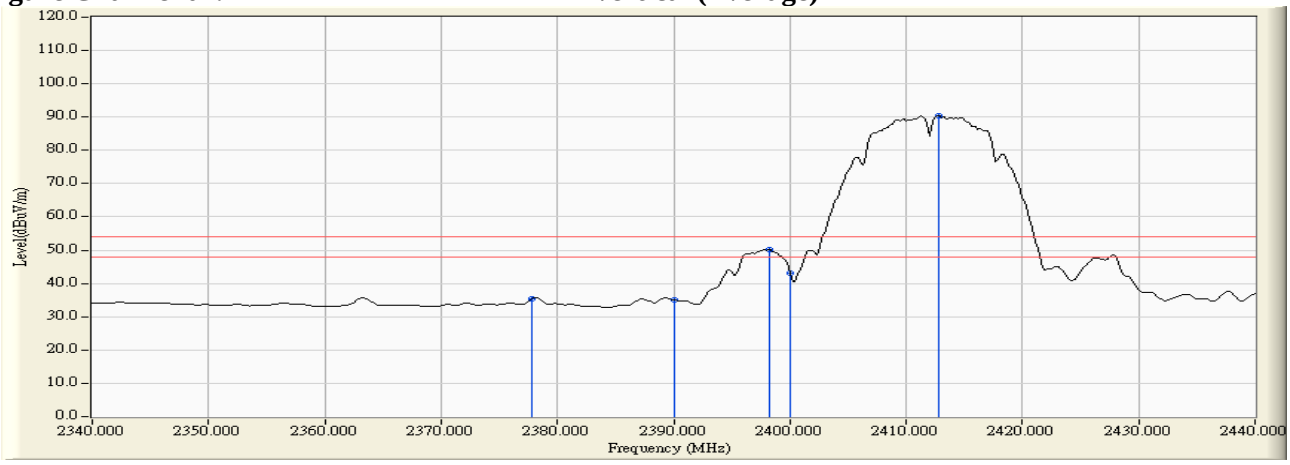


Figure Channel 01: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (22")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2462.920	-0.689	100.661	99.972	--	--	--
11 (Peak)	2483.500	-0.558	52.853	52.295	74.00	54.00	Pass
11 (Average)	2462.630	-0.690	96.245	95.554	--	--	--
11 (Average)	2483.500	-0.558	45.554	44.996	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

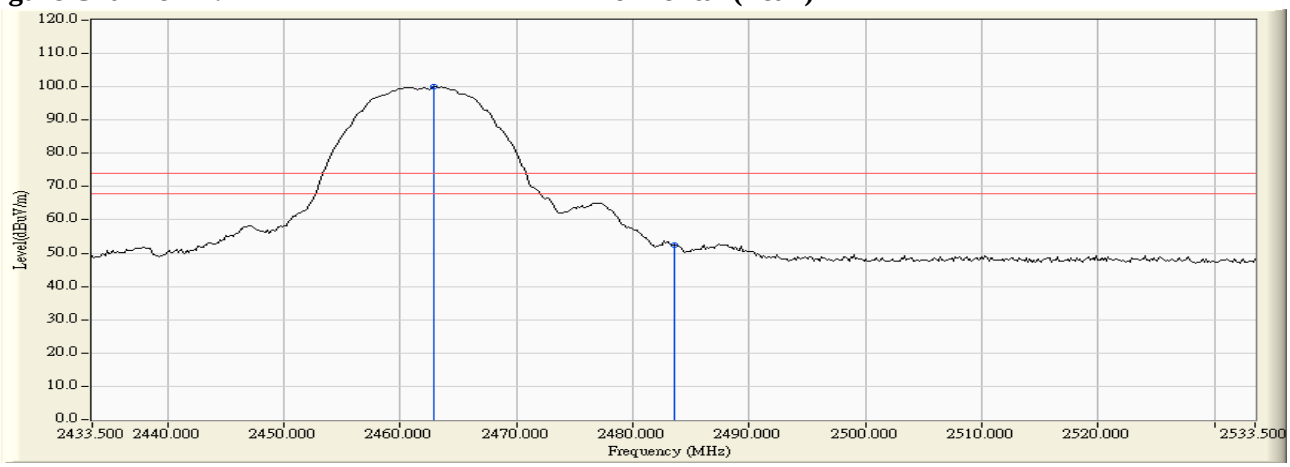
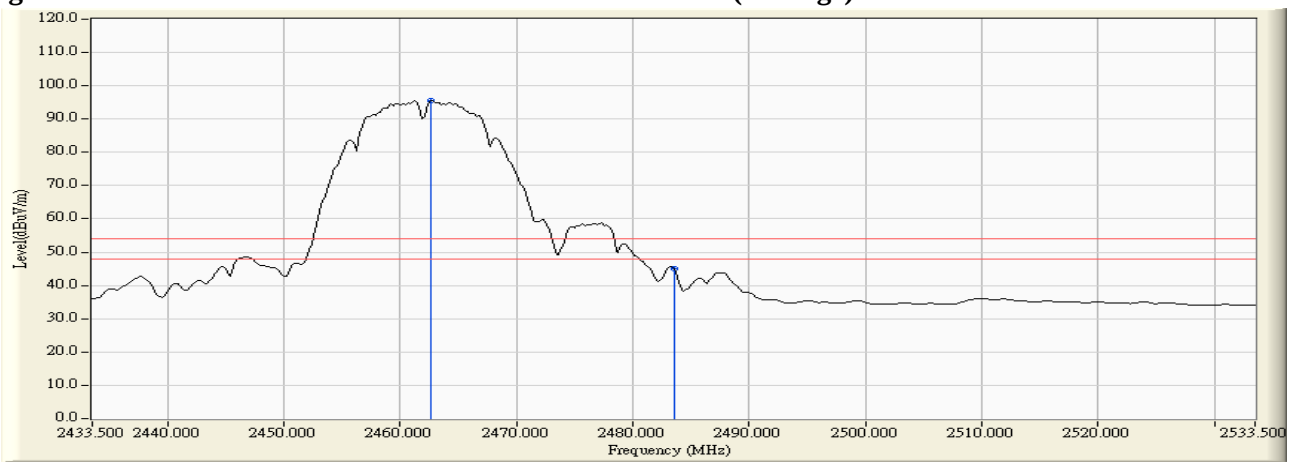


Figure Channel 11: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (22")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2462.920	-1.419	97.882	96.463	--	--	--
11 (Peak)	2483.500	-1.305	52.546	51.241	74.00	54.00	Pass
11 (Peak)	2488.138	-1.278	53.033	51.754	74.00	54.00	Pass
11 (Average)	2462.630	-1.419	93.235	91.815	--	--	--
11 (Average)	2483.500	-1.305	44.962	43.657	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)

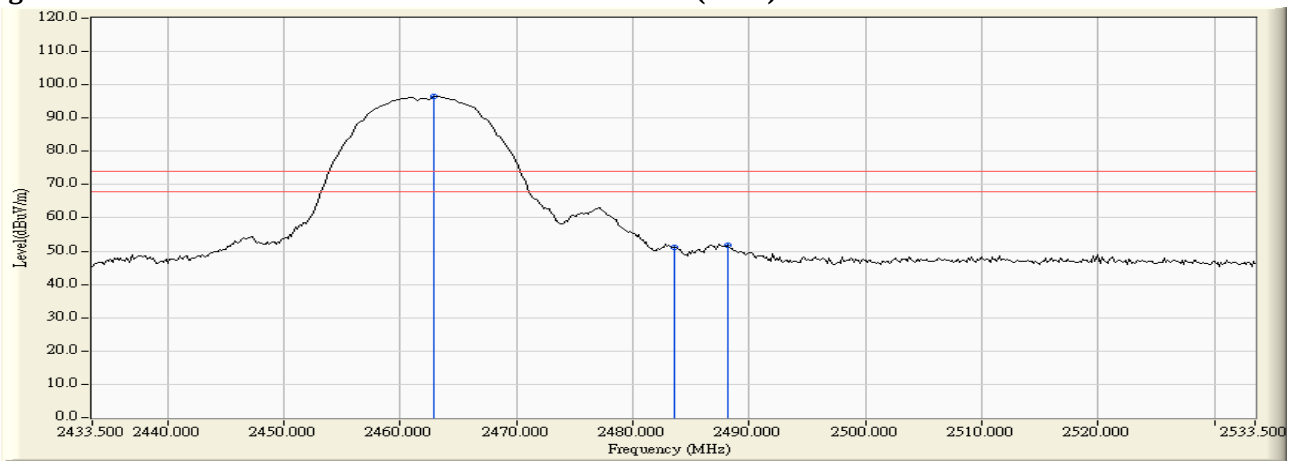


Figure Channel 11: Vertical (Average)

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (22")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	-1.131	63.313	62.182	74.00	54.00	Pass
01 (Peak)	2400.000	-1.084	80.761	79.678	--	--	--
01 (Peak)	2414.203	-1.002	103.622	102.620	--	--	--
01(Average)	2390.000	-1.131	44.259	43.128	74.00	54.00	Pass
01(Average)	2400.000	-1.084	60.386	59.303	--	--	--
01(Average)	2413.478	-1.007	90.812	89.805	--	--	--

Figure Channel 01: Horizontal (Peak)

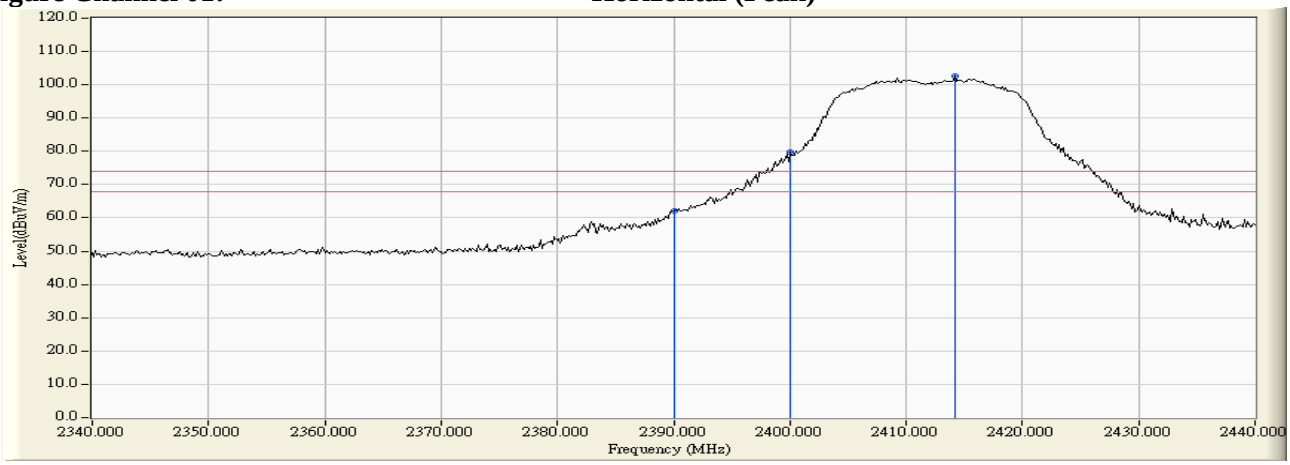
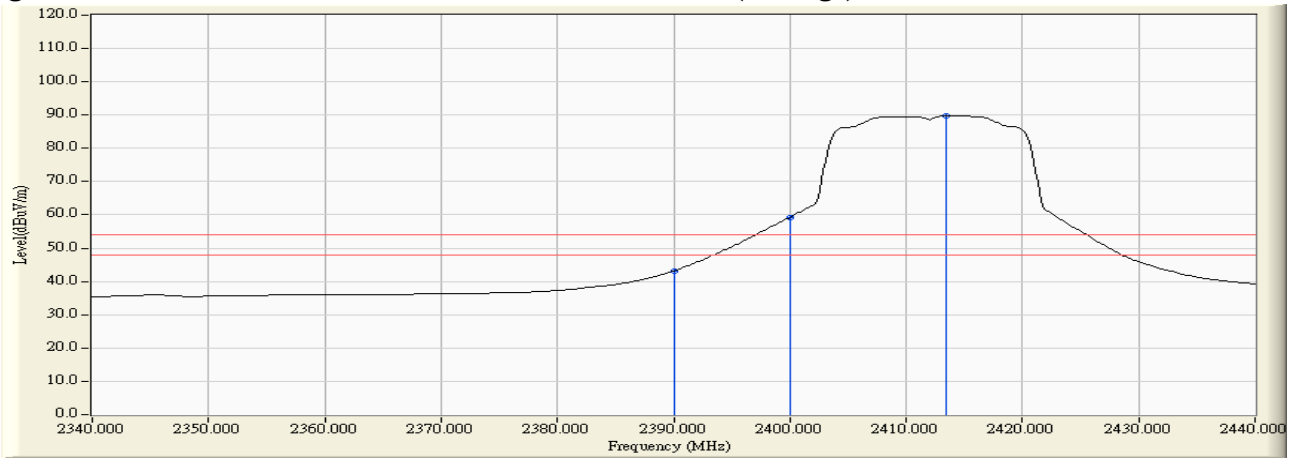


Figure Channel 01: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (22")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	-1.725	54.975	53.250	74.00	54.00	Pass
01 (Peak)	2400.000	-1.733	72.716	70.984	--	--	--
01 (Peak)	2415.362	-1.686	97.449	95.763	--	--	--
01 (Average)	2390.000	-1.725	39.133	37.408	74.00	54.00	Pass
01 (Average)	2400.000	-1.733	54.273	52.541	--	--	--
01 (Average)	2414.638	-1.690	85.922	84.232	--	--	--

Figure Channel 01: Vertical (Peak)

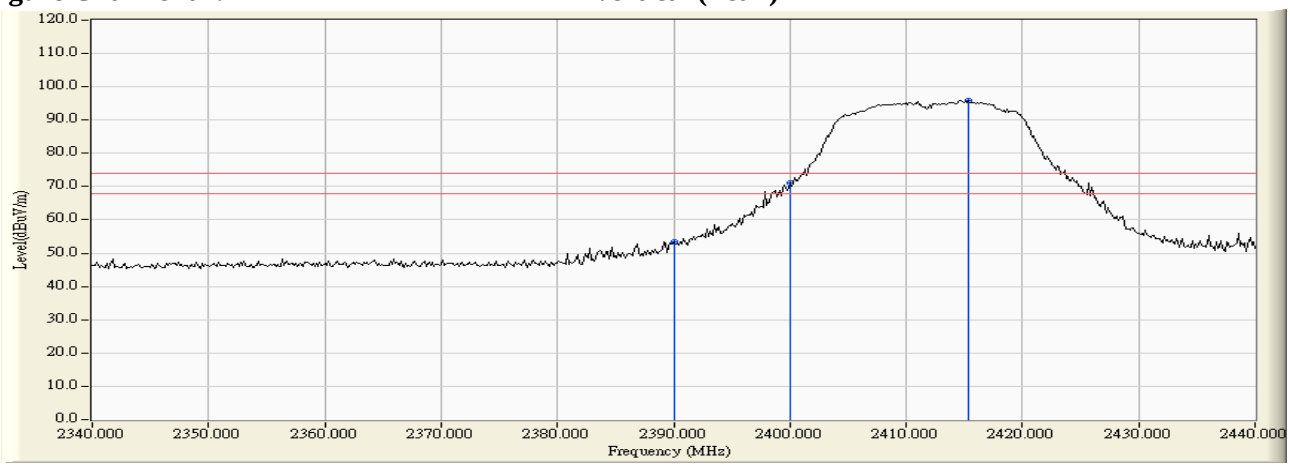
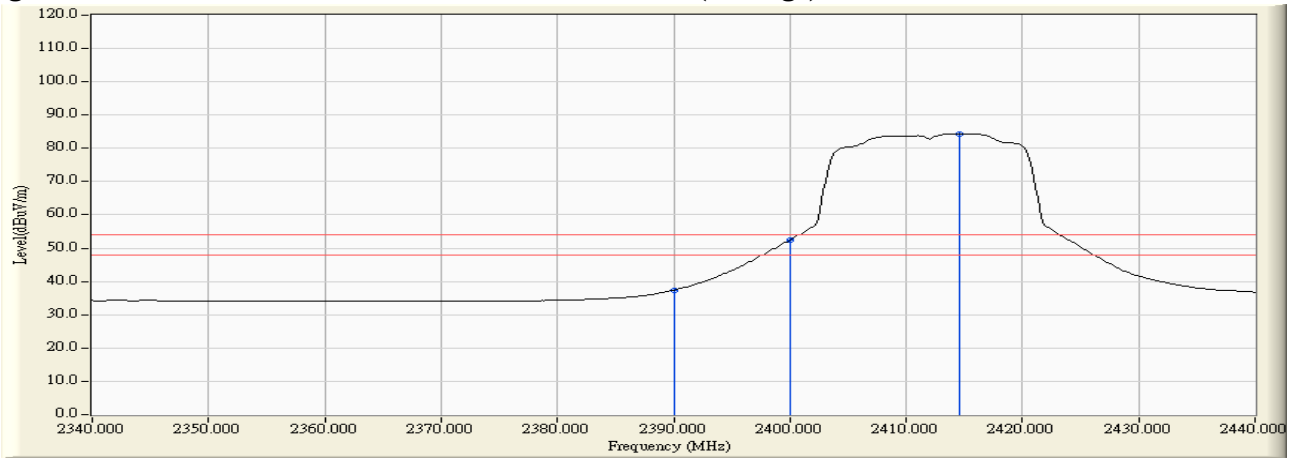


Figure Channel 01: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (22")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2465.674	-0.672	101.277	100.606	--	--	--
11 (Peak)	2483.500	-0.558	63.065	62.507	74.00	54.00	Pass
11 (Average)	2465.384	-0.673	89.187	88.514	--	--	--
11 (Average)	2483.500	-0.558	45.165	44.607	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

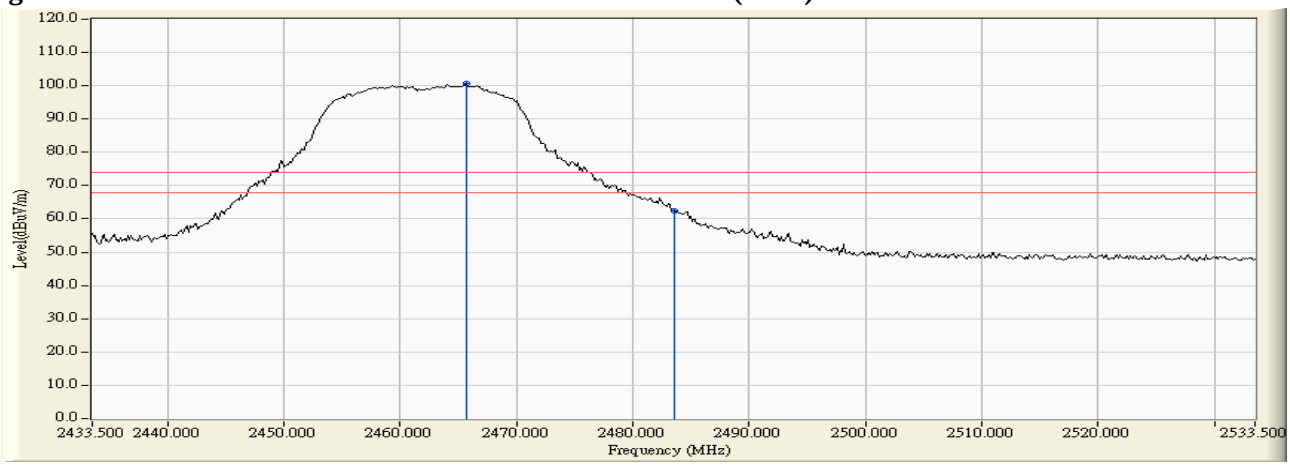
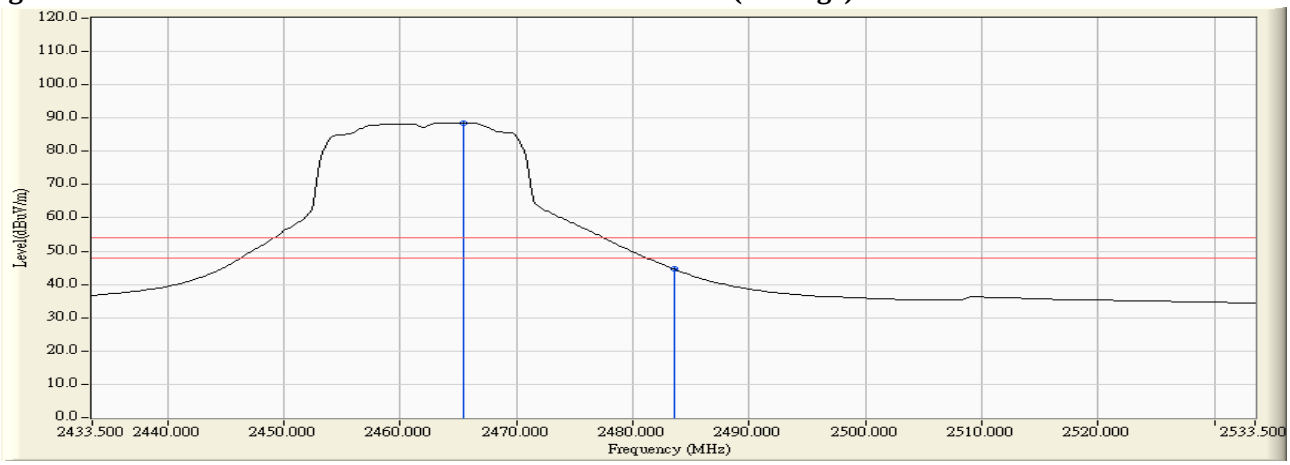


Figure Channel 11: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (22")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2464.080	-1.411	98.824	97.412	--	--	--
11 (Peak)	2483.500	-1.305	62.760	61.455	74.00	54.00	Pass
11 (Average)	2466.109	-1.401	86.351	84.950	--	--	--
11 (Average)	2483.500	-1.305	44.706	43.401	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)

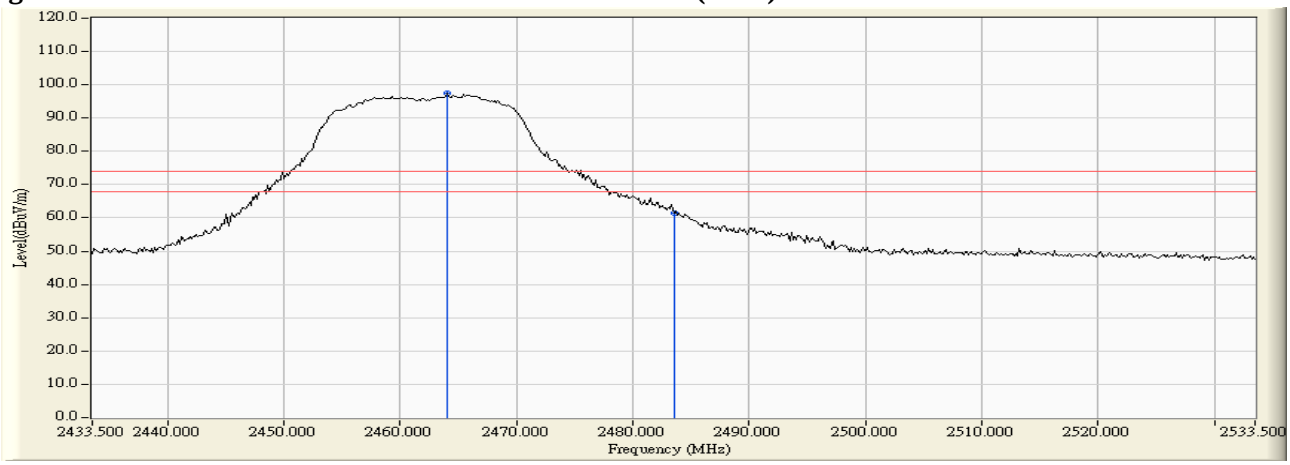
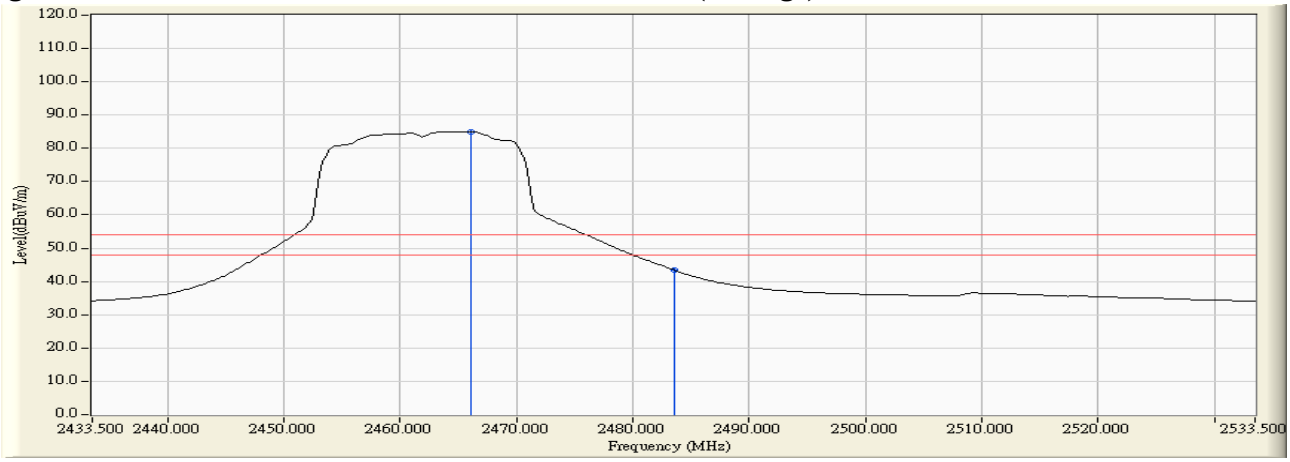


Figure Channel 11: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (22")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2390.000	-1.131	60.721	59.590	74.00	54.00	Pass
01 (Peak)	2400.000	-1.084	75.098	74.015	--	--	--
01 (Peak)	2414.493	-0.999	100.238	99.238	--	--	--
01 (Average)	2390.000	-1.131	41.240	40.109	74.00	54.00	Pass
01 (Average)	2400.000	-1.084	56.779	55.696	--	--	--
01 (Average)	2413.623	-1.006	87.277	86.271	--	--	--

Figure Channel 01: Horizontal (Peak)

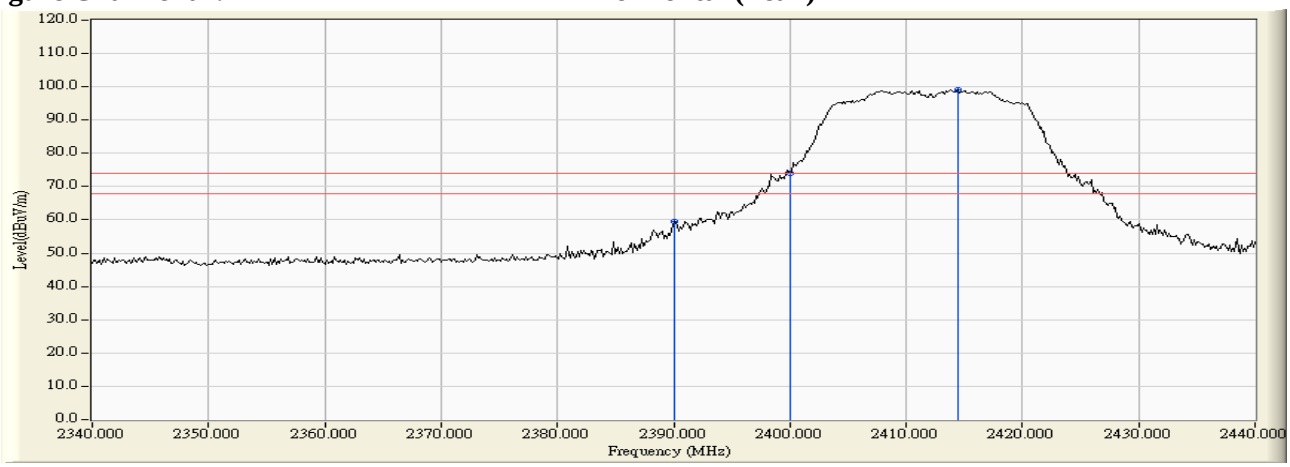
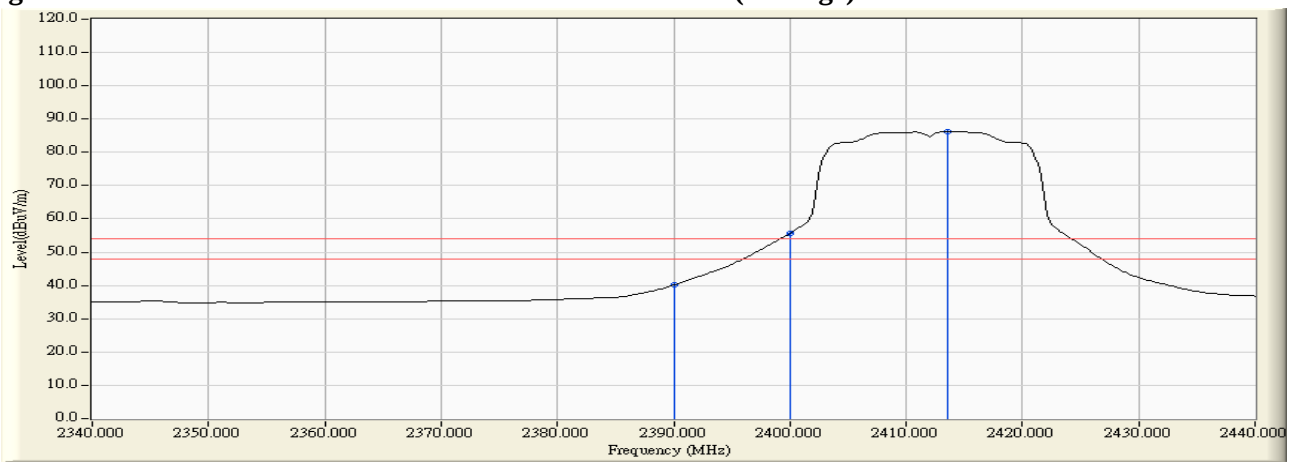


Figure Channel 01: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (22”)

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
01 (Peak)	2389.565	-1.723	54.554	52.831	74.00	54.00	Pass
01 (Peak)	2390.000	-1.725	53.117	51.392	74.00	54.00	Pass
01 (Peak)	2399.130	-1.734	70.128	68.394	--	--	--
01 (Peak)	2400.000	-1.733	69.525	67.793	--	--	--
01 (Peak)	2416.377	-1.681	96.311	94.630	--	--	--
01 (Average)	2390.000	-1.725	37.659	35.934	74.00	54.00	Pass
01 (Average)	2400.000	-1.733	52.224	50.492	--	--	--
01 (Average)	2413.623	-1.696	82.925	81.229	--	--	--

Figure Channel 01: Vertical (Peak)

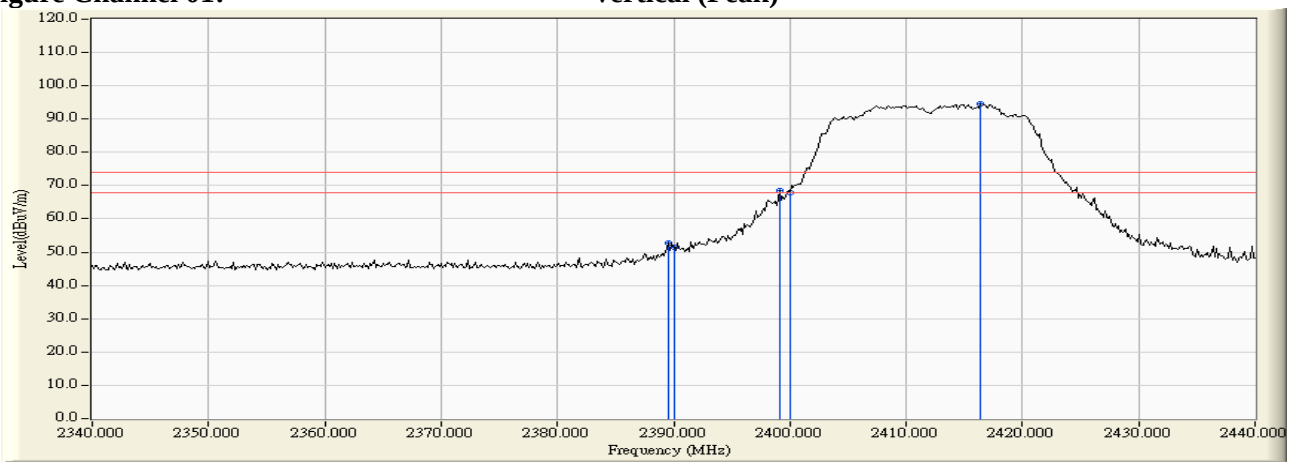
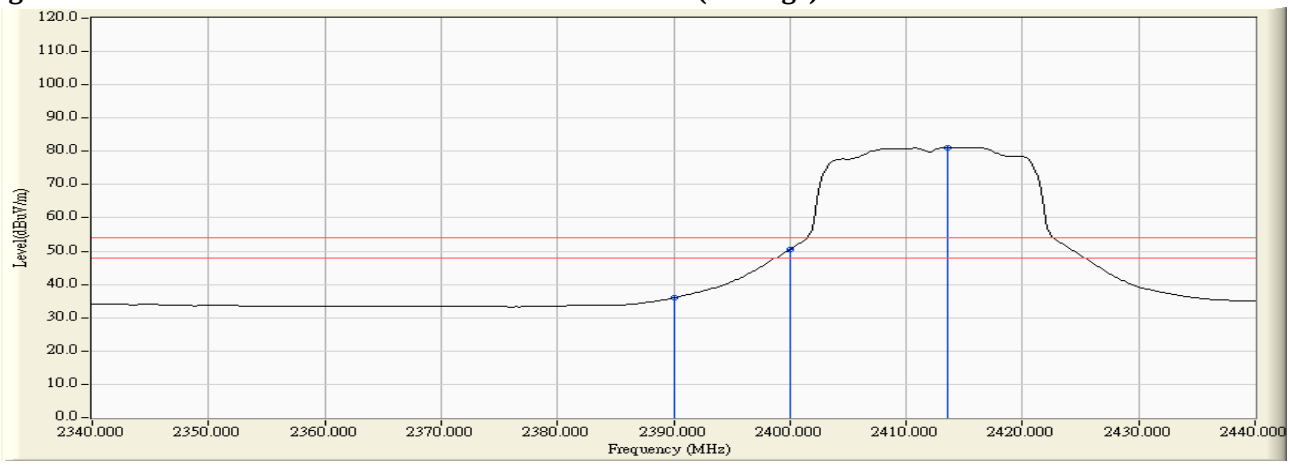


Figure Channel 01: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (22")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2464.370	-0.680	101.342	100.662	--	--	--
11 (Peak)	2483.500	-0.558	60.895	60.337	74.00	54.00	Pass
11 (Peak)	2484.225	-0.554	61.871	61.317	74.00	54.00	Pass
11 (Average)	2465.674	-0.672	87.884	87.213	--	--	--
11 (Average)	2483.500	-0.558	44.023	43.465	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

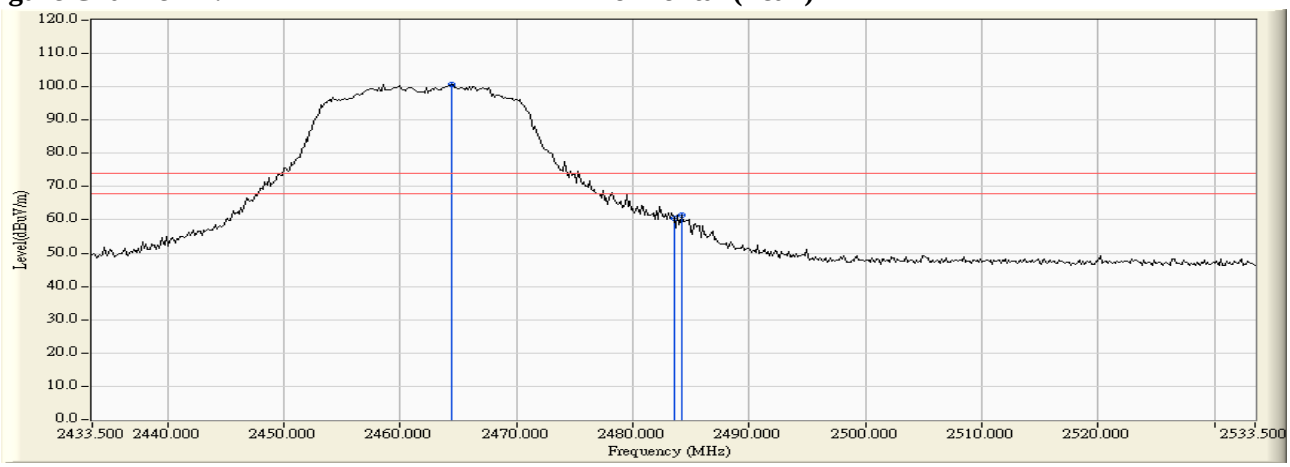
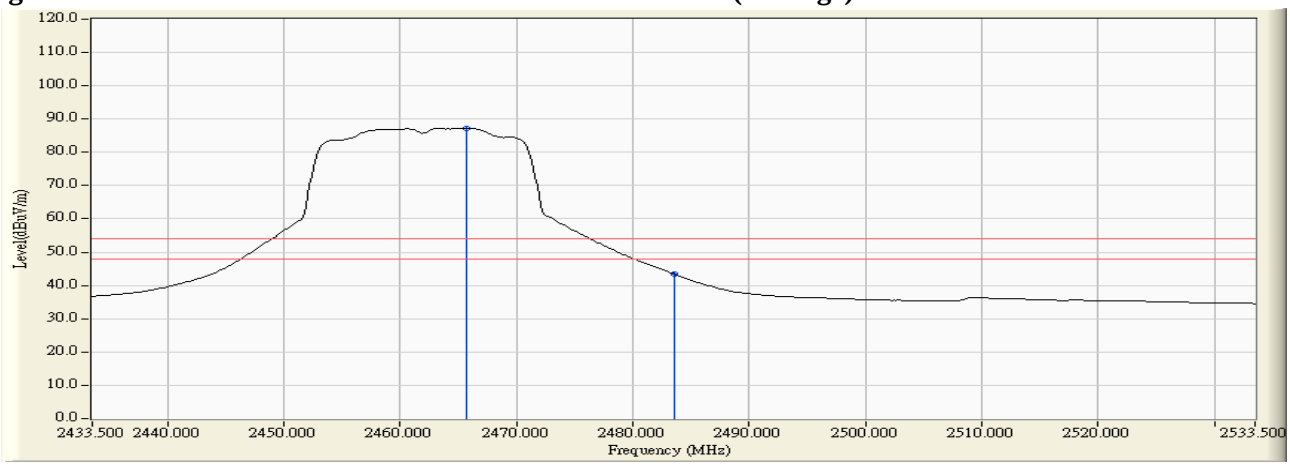


Figure Channel 11: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (22")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
11 (Peak)	2463.065	-1.418	101.318	99.900	--	--	--
11 (Peak)	2483.500	-1.305	63.158	61.853	74.00	54.00	Pass
11 (Average)	2466.254	-1.400	86.608	85.208	--	--	--
11 (Average)	2483.500	-1.305	44.326	43.021	74.00	54.00	Pass

Figure Channel 11: Vertical (Peak)

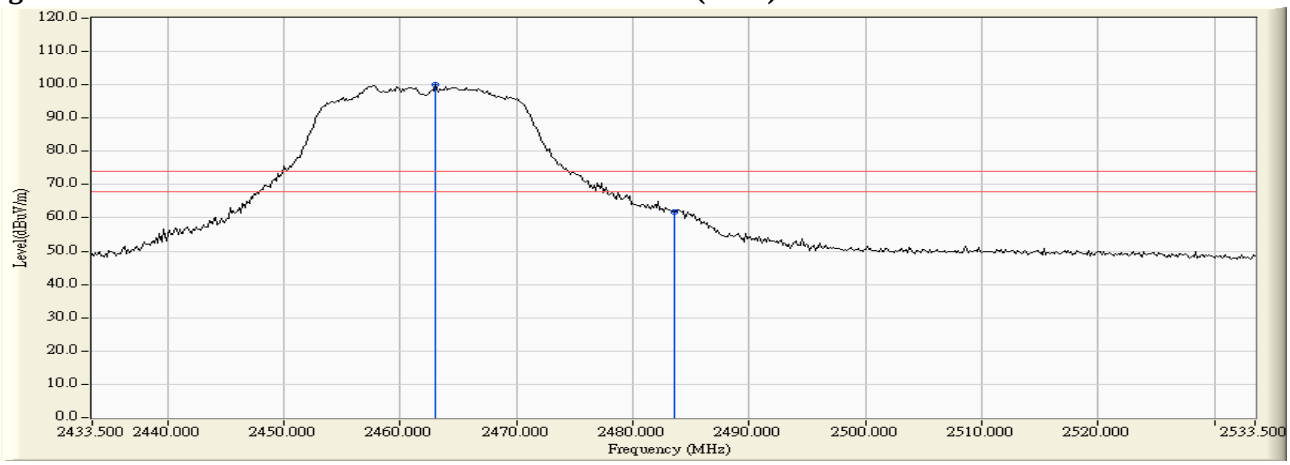
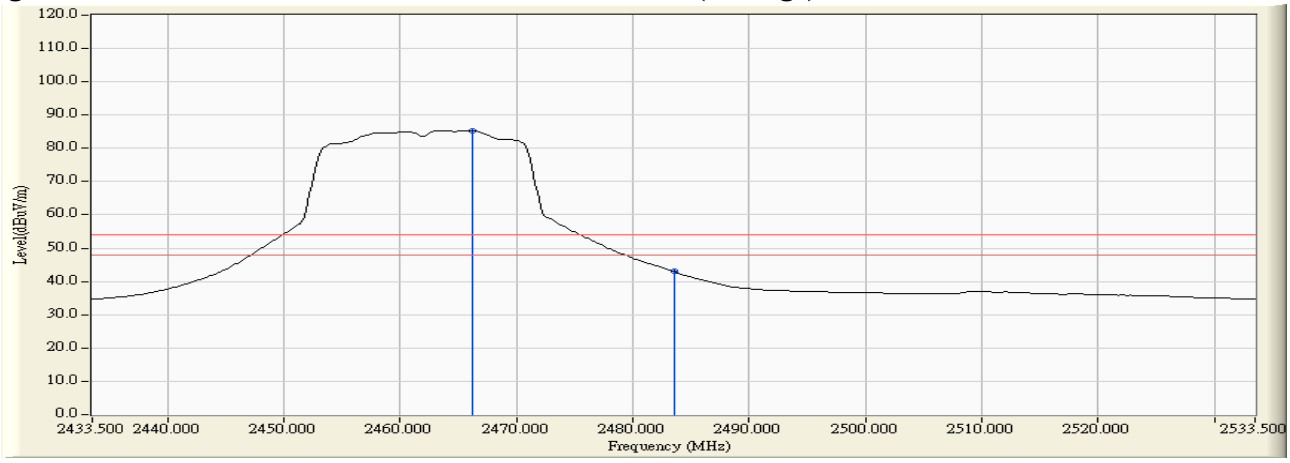


Figure Channel 11: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (22")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
03 (Peak)	2390.000	-1.131	57.082	55.951	74.00	54.00	Pass
03 (Peak)	2400.000	-1.084	67.498	66.415	--	--	--
03 (Peak)	2417.826	-0.978	96.457	95.478	--	--	--
03 (Average)	2390.000	-1.131	41.384	40.253	74.00	54.00	Pass
03 (Average)	2400.000	-1.084	53.015	51.932	--	--	--
03 (Average)	2414.783	-0.998	81.565	80.567	--	--	--

Figure Channel 03: Horizontal (Peak)

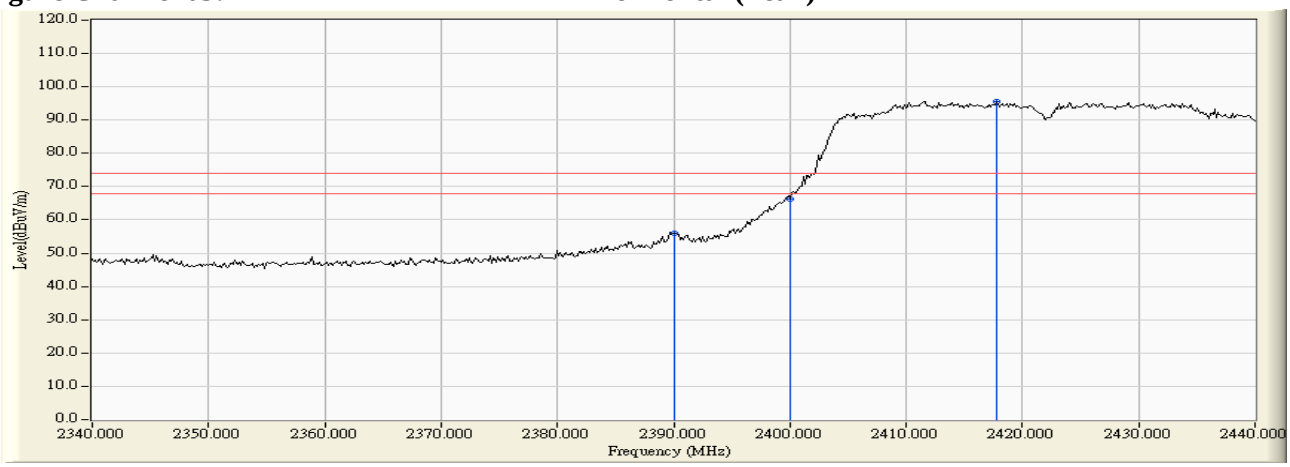
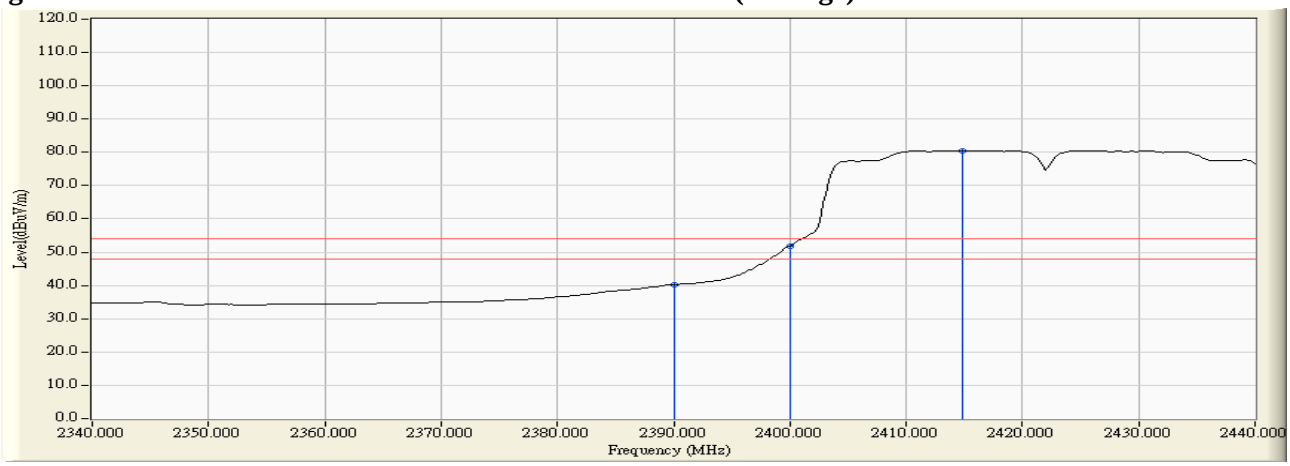


Figure Channel 03: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (22")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
03 (Peak)	2390.000	-1.725	53.749	52.024	74.00	54.00	Pass
03 (Peak)	2400.000	-1.733	66.383	64.651	--	--	--
03 (Peak)	2426.667	-1.624	93.183	91.559	--	--	--
03 (Average)	2390.000	-1.725	38.834	37.109	74.00	54.00	Pass
03 (Average)	2400.000	-1.733	49.918	48.186	--	--	--
03 (Average)	2433.478	-1.586	78.209	76.624	--	--	--

Figure Channel 03: Vertical (Peak)

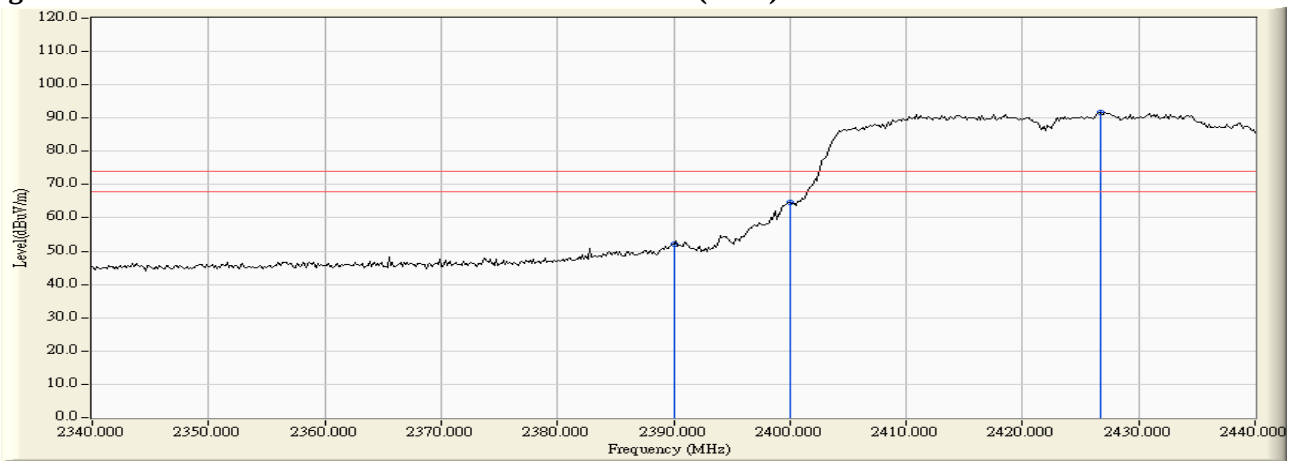
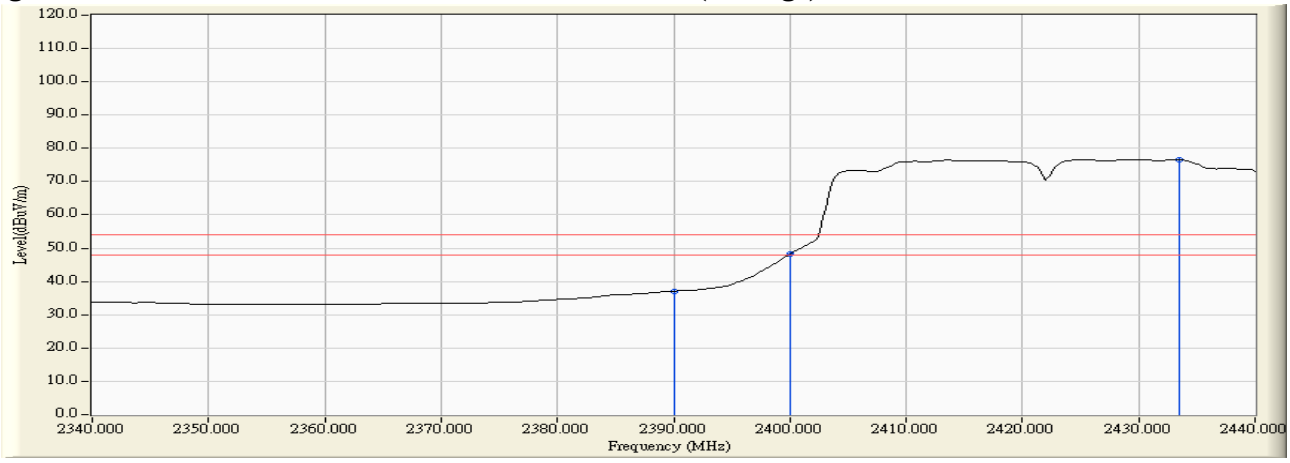


Figure Channel 03: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (22")

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
09 (Peak)	2461.181	-0.699	97.542	96.842	--	--	--
09 (Peak)	2483.500	-0.558	60.293	59.735	74.00	54.00	Pass
09 (Peak)	2484.514	-0.552	62.344	61.792	74.00	54.00	Pass
09 (Average)	2463.355	-0.686	83.232	82.546	--	--	--
09 (Average)	2483.500	-0.558	45.533	44.975	74.00	54.00	Pass

Figure Channel 09: Horizontal (Peak)

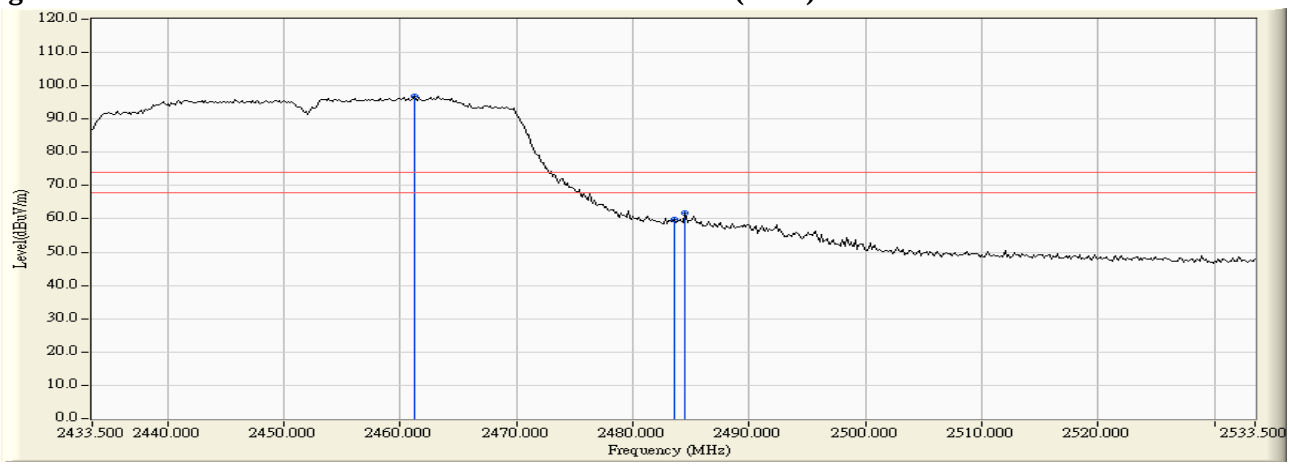
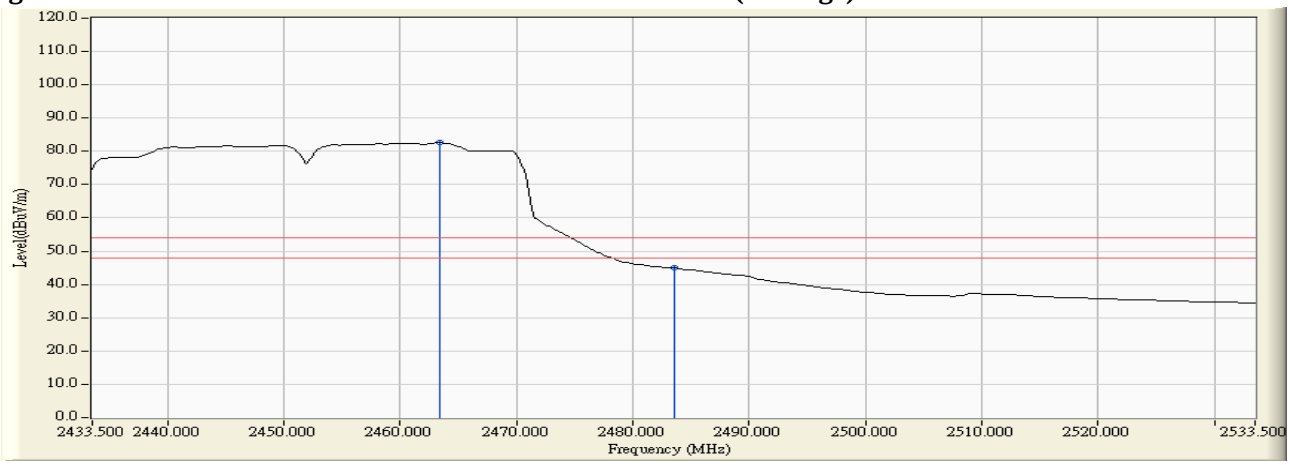


Figure Channel 09: Horizontal (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Medical Cart Computer
Test Item : Band Edge
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (22")

RF Radiated Measurement (Vertical):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Emission Level (dBuV/m)	Peak Limit (dBuV/m)	Average Limit (dBuV/m)	Result
09 (Peak)	2461.326	-1.428	94.480	93.053	--	--	--
09 (Peak)	2483.500	-1.305	55.746	54.441	74.00	54.00	Pass
09 (Peak)	2489.587	-1.270	57.041	55.770	74.00	54.00	Pass
09 (Average)	2460.746	-1.430	78.859	77.428	--	--	--
09 (Average)	2483.500	-1.305	41.774	40.469	74.00	54.00	Pass

Figure Channel 09: Vertical (Peak)

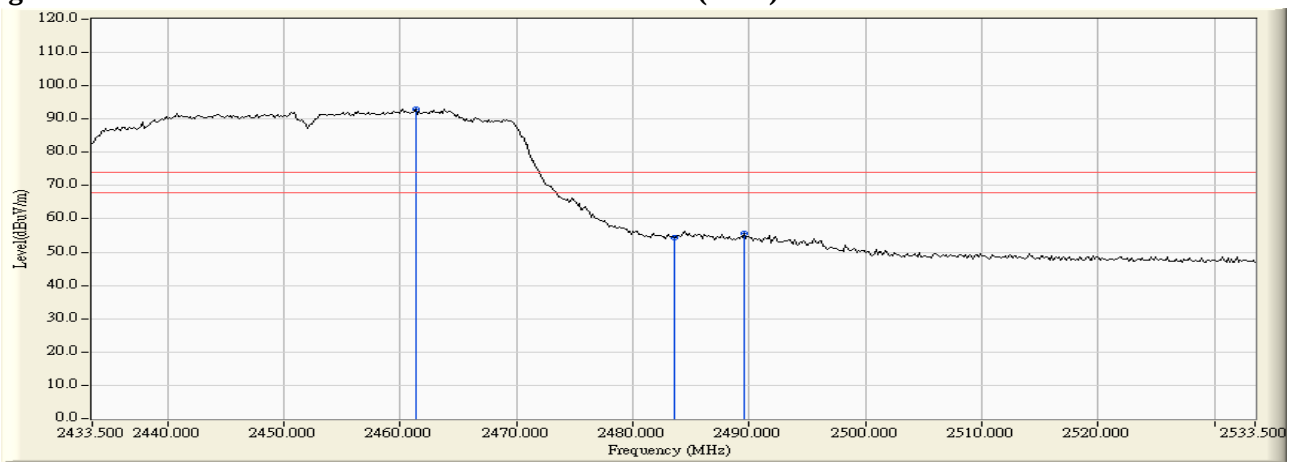
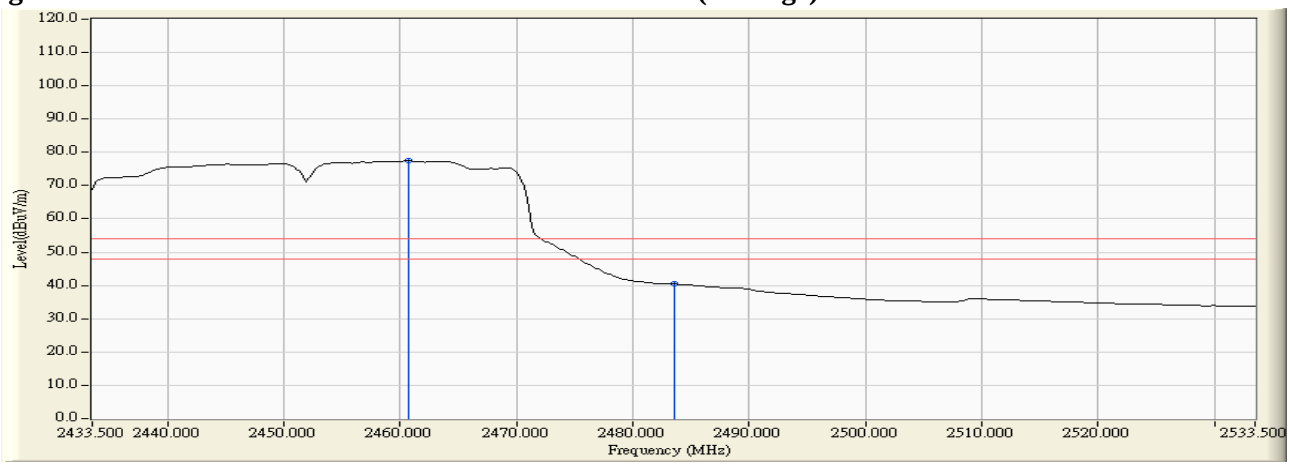


Figure Channel 09: Vertical (Average)



Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

7. Occupied Bandwidth

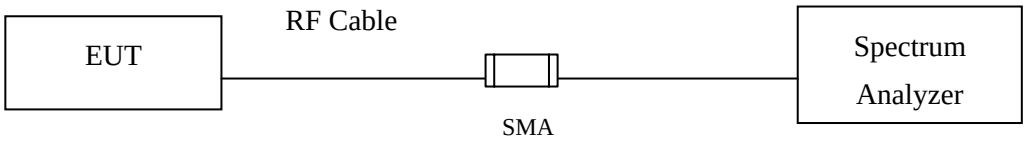
7.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

7.2. Test Setup



7.3. Limits

The minimum bandwidth shall be at least 500 kHz.

7.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013; tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 1-5% of the emission bandwidth, VBW≥3*RBW

7.5. Uncertainty

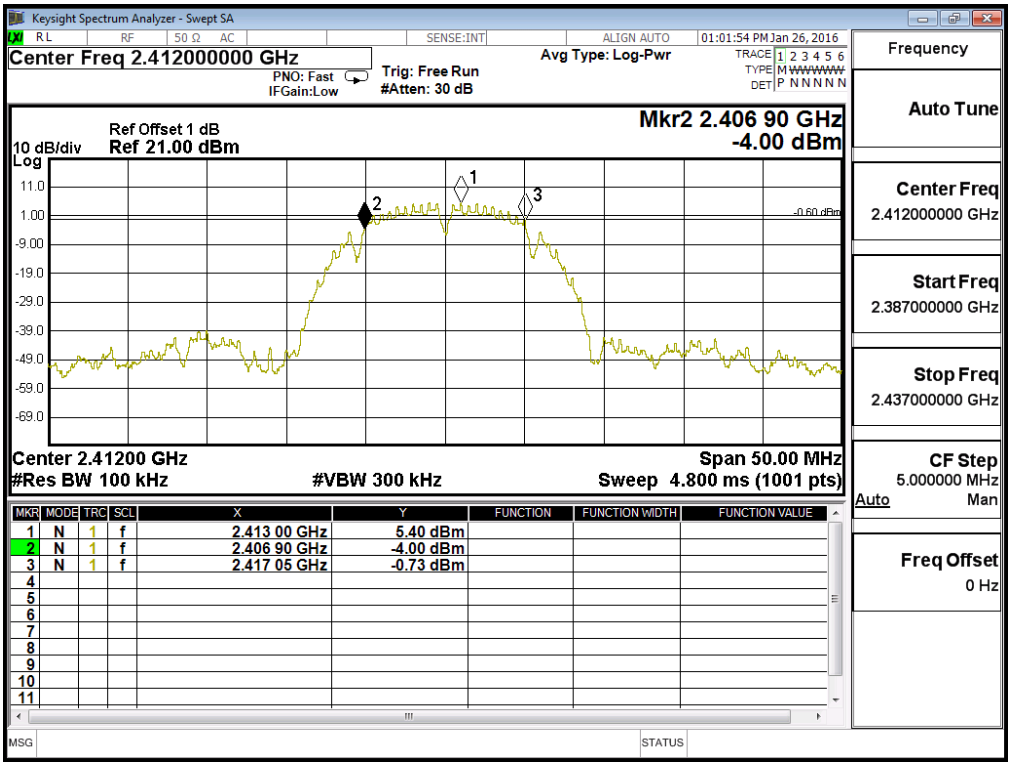
± 150Hz

7.6. Test Result of Occupied Bandwidth

Product : Medical Cart Computer
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz) (19”+22”+24”)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	10150	>500	Pass

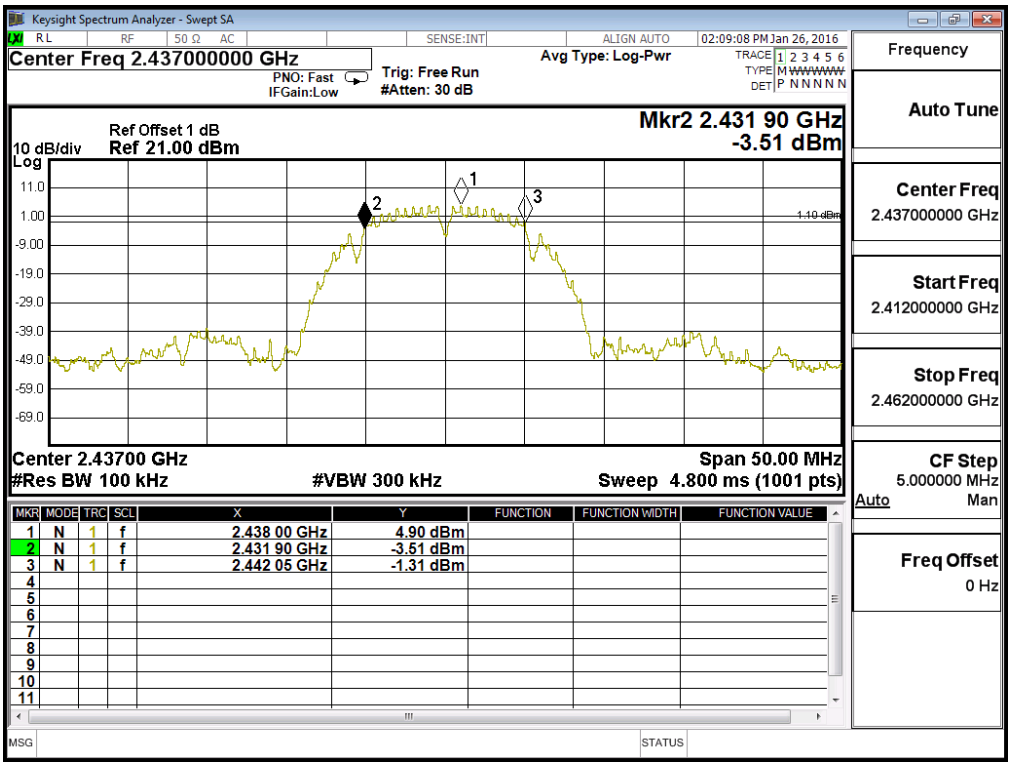
Figure Channel 1:



Product : Medical Cart Computer
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437MHz) (19”+22”+24”)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	10150	>500	Pass

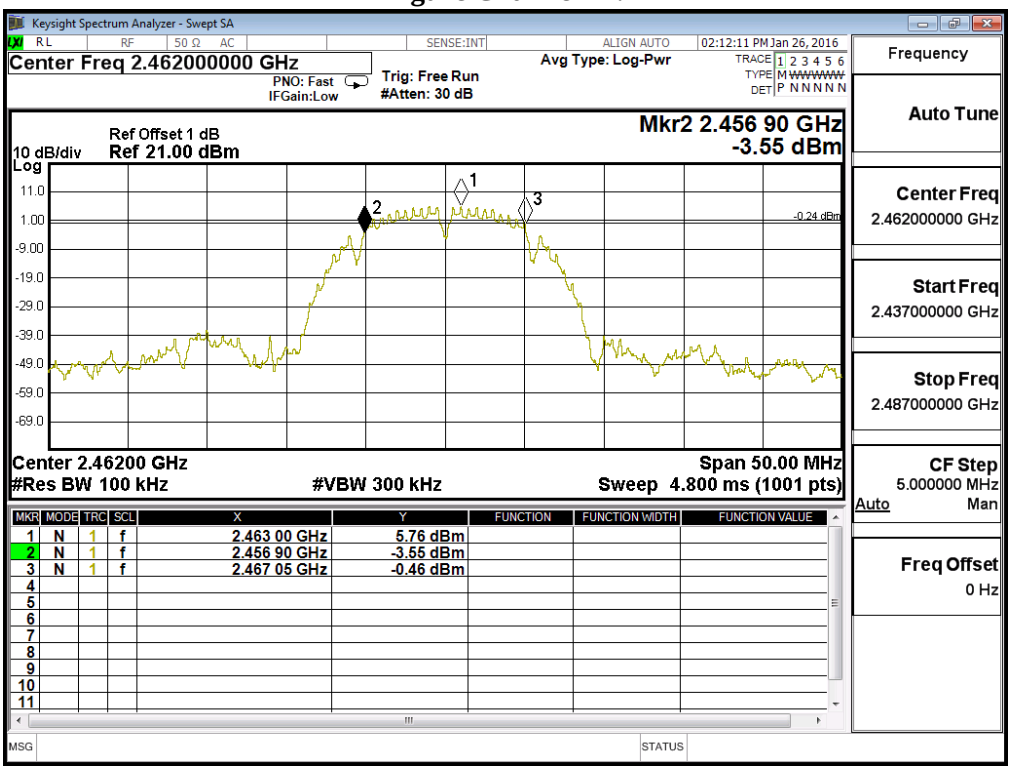
Figure Channel 6:



Product : Medical Cart Computer
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz) (19"+22"+24")

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	10150	>500	Pass

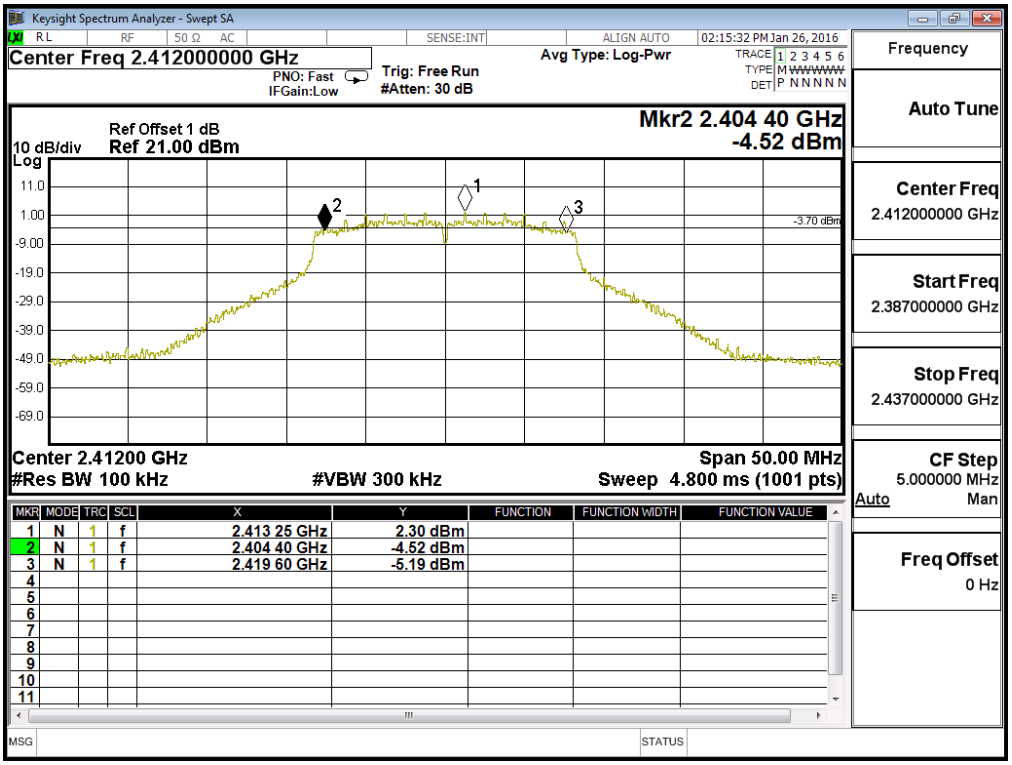
Figure Channel 11:



Product : Medical Cart Computer
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz) (19"+22"+24")

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	15200	>500	Pass

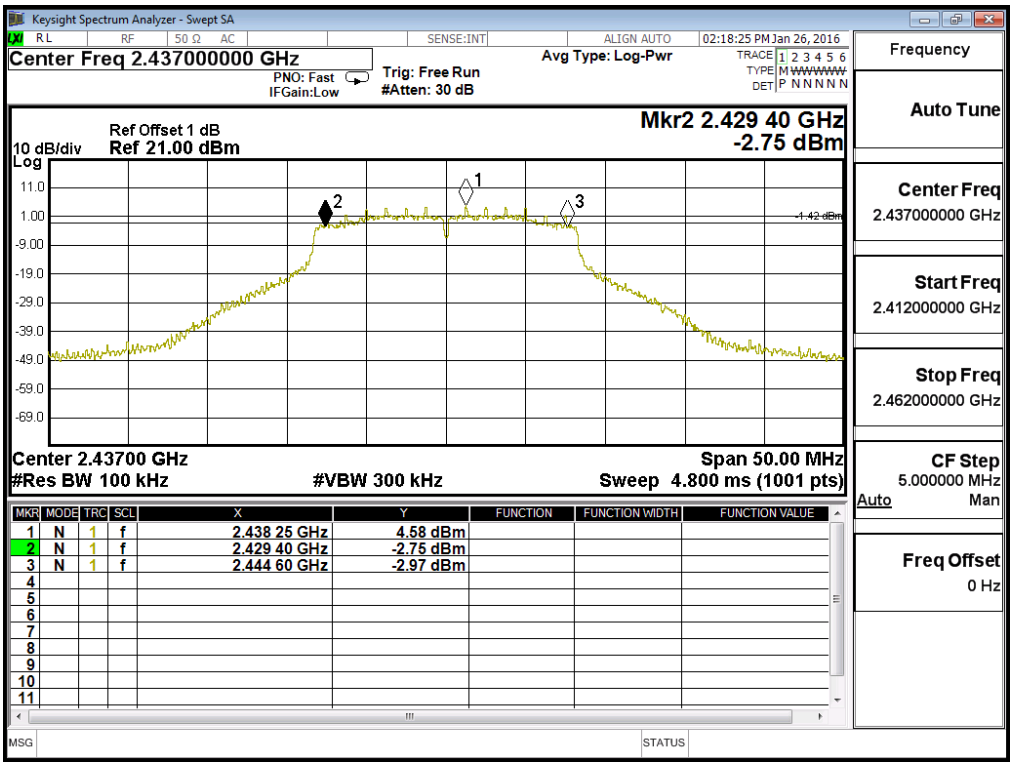
Figure Channel 1:



Product : Medical Cart Computer
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437MHz) (19"+22"+24")

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	15200	>500	Pass

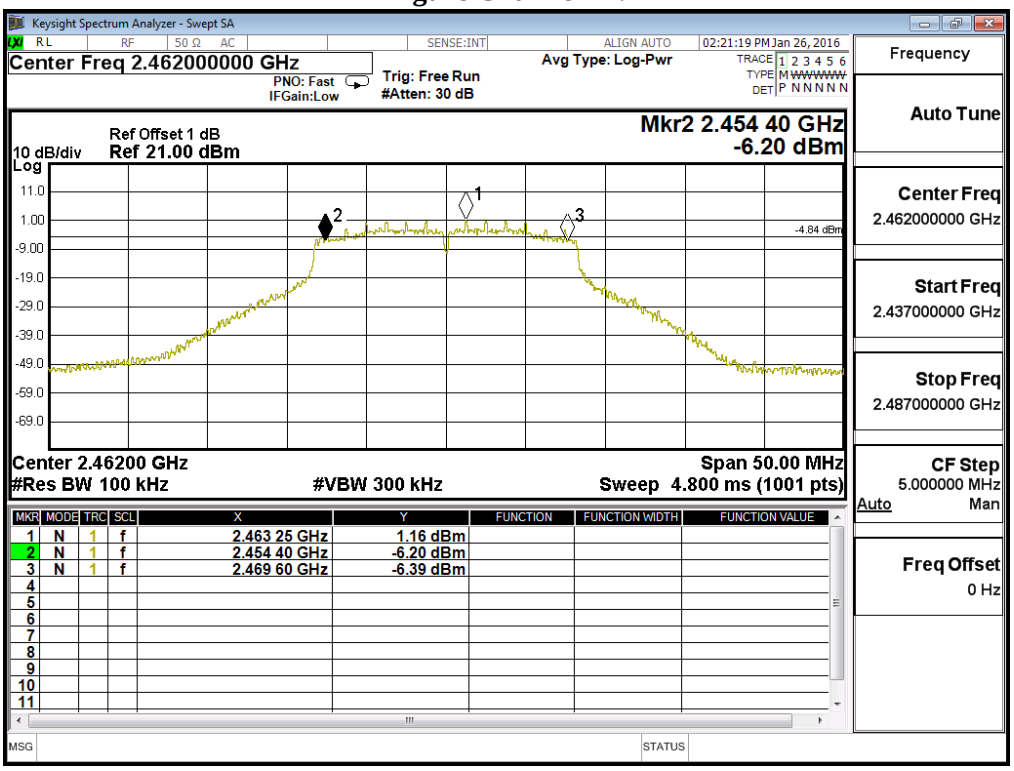
Figure Channel 6:



Product : Medical Cart Computer
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz) (19”+22”+24”)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	15200	>500	Pass

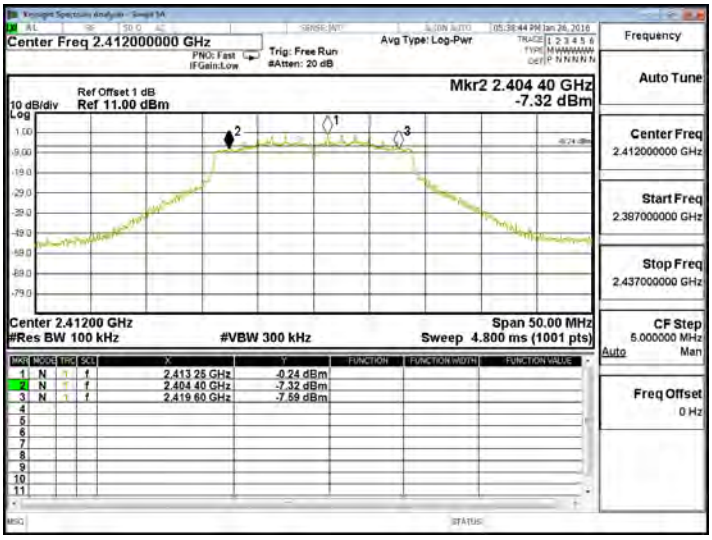
Figure Channel 11:



Product : Medical Cart Computer
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2412MHz) (19”+22”+24”)

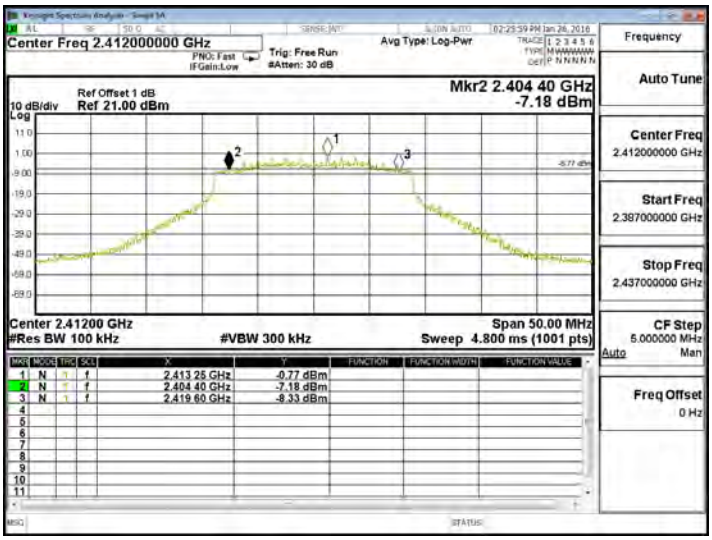
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	15200	>500	Pass

Figure Channel 1: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
1	2412.00	15200	>500	Pass

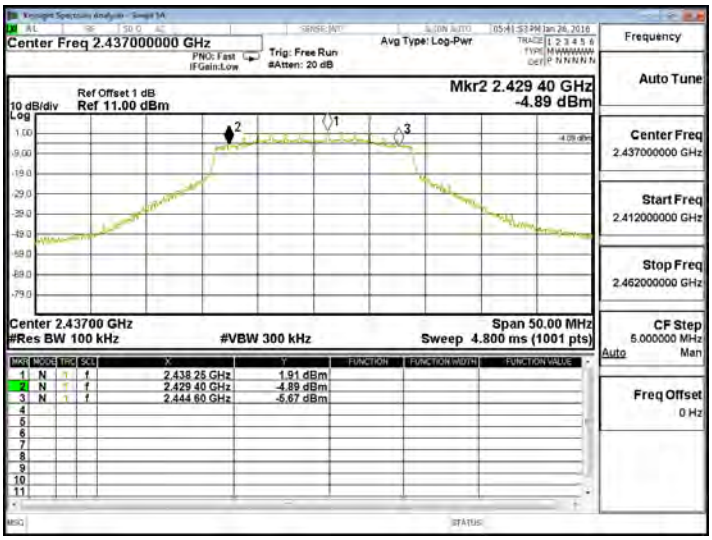
Figure Channel 1: (Chain B)



Product : Medical Cart Computer
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437MHz) (19”+22”+24”)

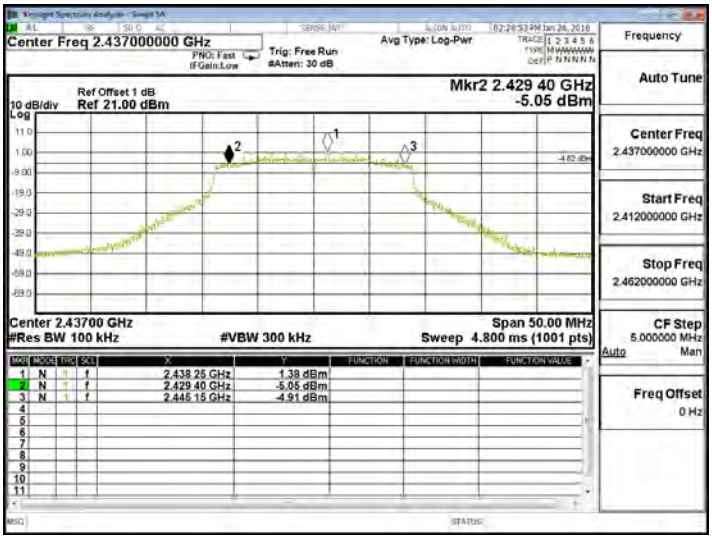
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	15200	>500	Pass

Figure Channel 6: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	15750	>500	Pass

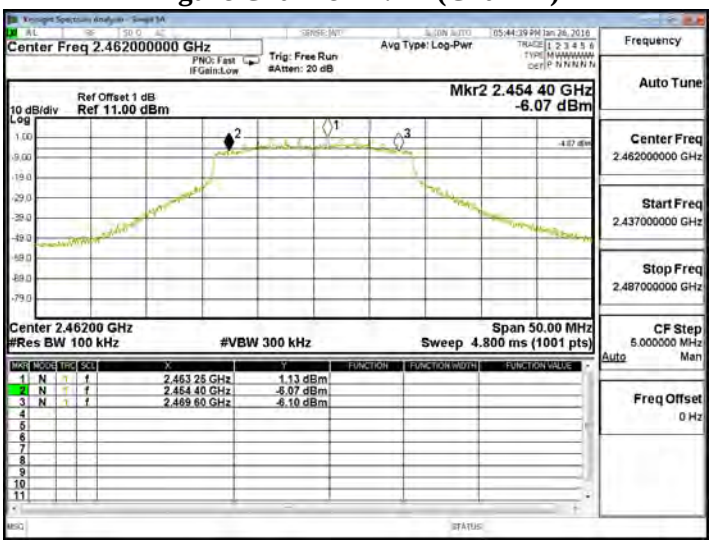
Figure Channel 6: (Chain B)



Product : Medical Cart Computer
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2462MHz) (19”+22”+24”)

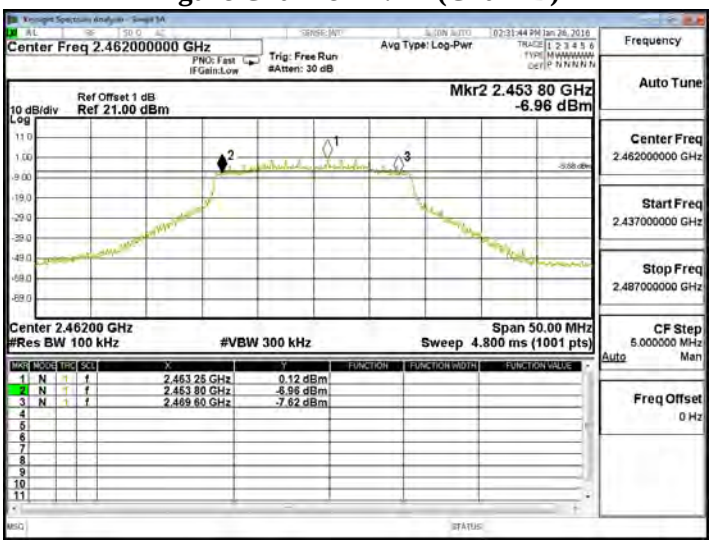
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	15200	>500	Pass

Figure Channel 11: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
11	2462.00	15800	>500	Pass

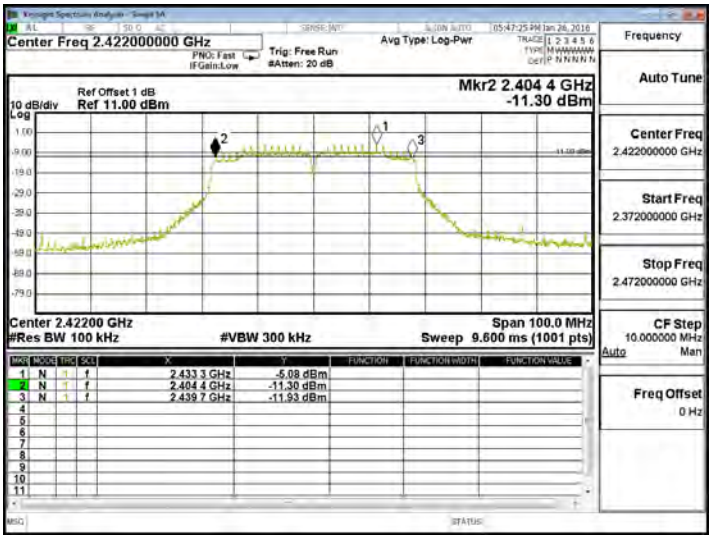
Figure Channel 11: (Chain B)



Product : Medical Cart Computer
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2422MHz) (19"+22"+24")

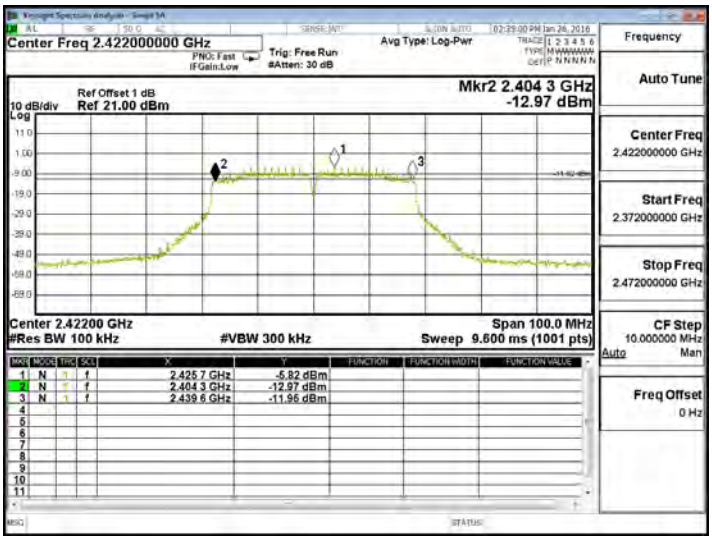
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
3	2422.00	35300	>500	Pass

Figure Channel 3: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
3	2422.00	35300	>500	Pass

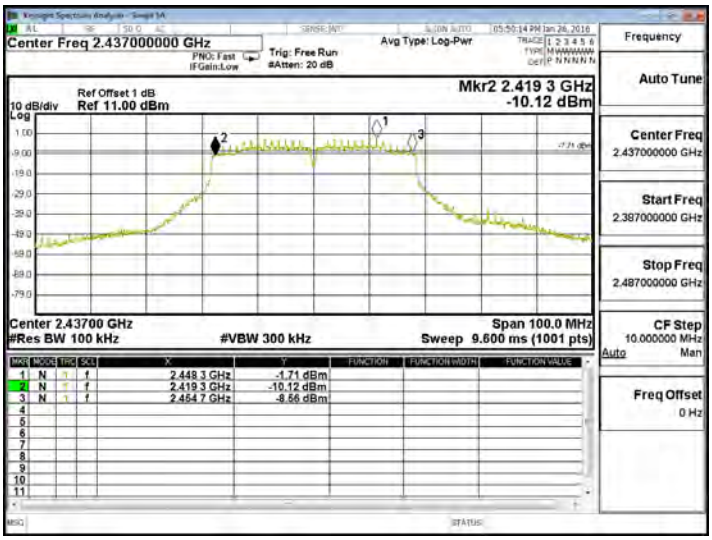
Figure Channel 3: (Chain B)



Product : Medical Cart Computer
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz) (19"+22"+24")

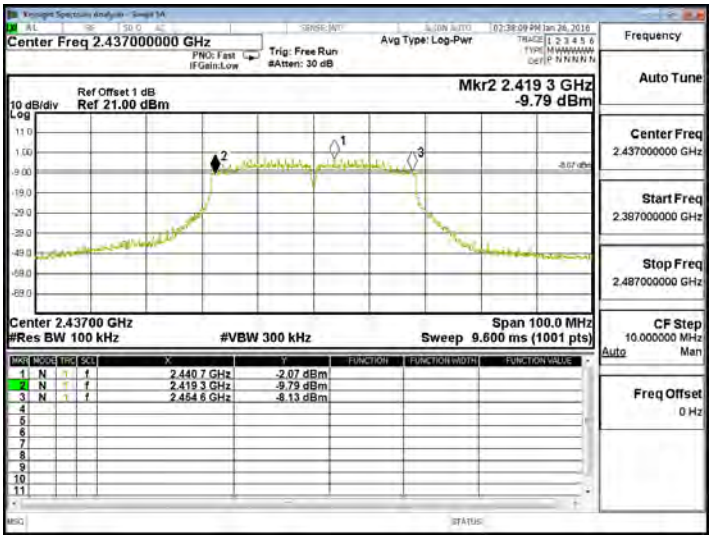
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	35400	>500	Pass

Figure Channel 6: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
6	2437.00	35300	>500	Pass

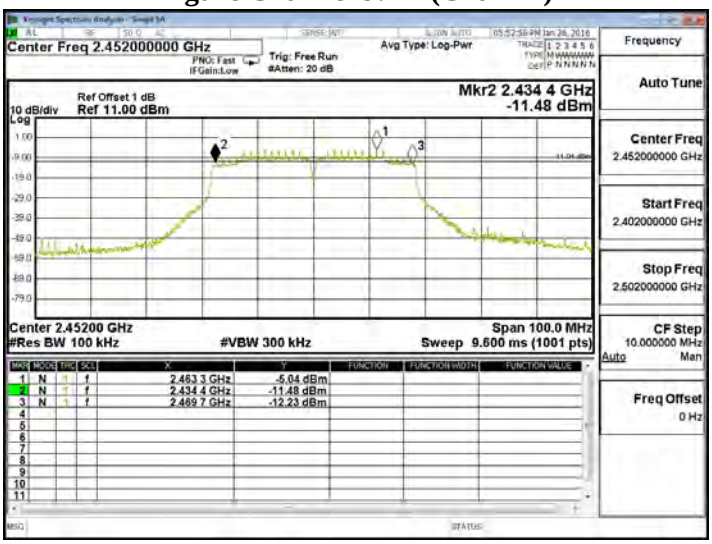
Figure Channel 6: (Chain B)



Product : Medical Cart Computer
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2452MHz) (19"+22"+24")

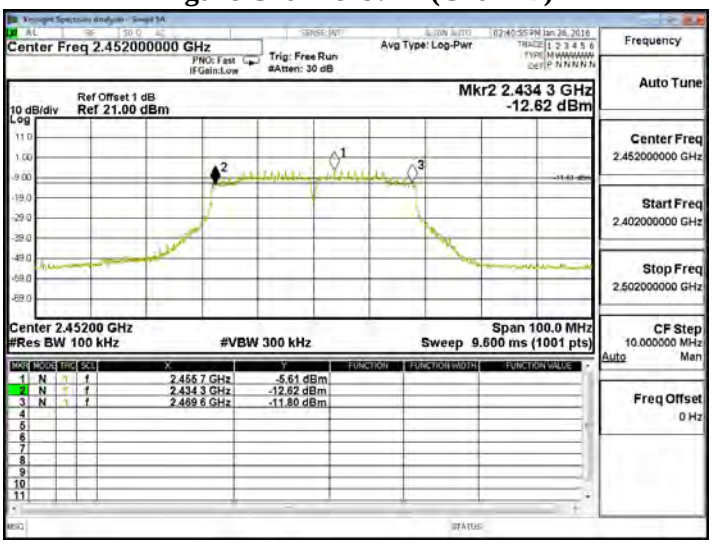
Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
9	2452.00	35300	>500	Pass

Figure Channel 9: (Chain A)



Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
9	2452.00	35300	>500	Pass

Figure Channel 9: (Chain B)



8. Power Density

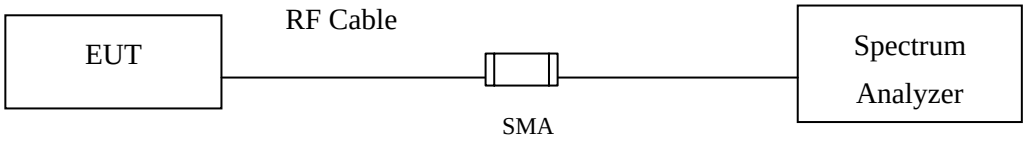
8.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun, 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun, 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

8.2. Test Setup



8.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

8.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013; tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements.
The maximum power spectral density using KDB 558074 section 10.2 PKPSD (peak PSD) method.

8.5. Uncertainty

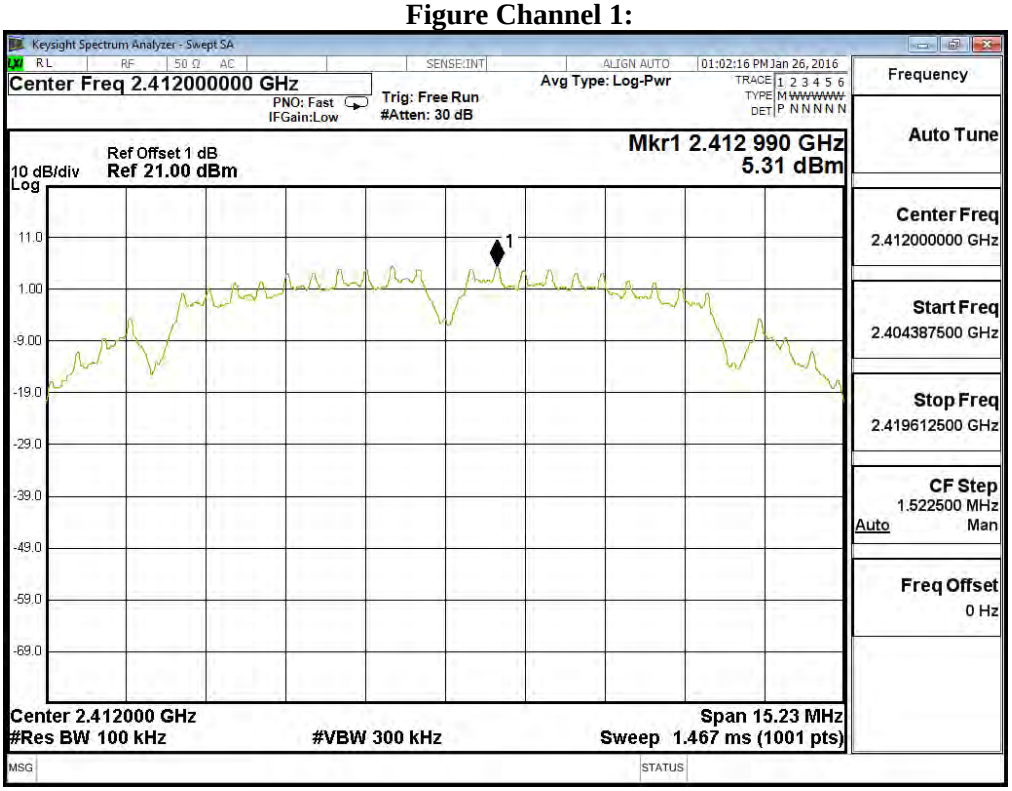
± 1.27 dB

8.6. Test Result of Power Density

Product : Medical Cart Computer
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz) (19”+22”+24”)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	5.310	≦8dBm	Pass

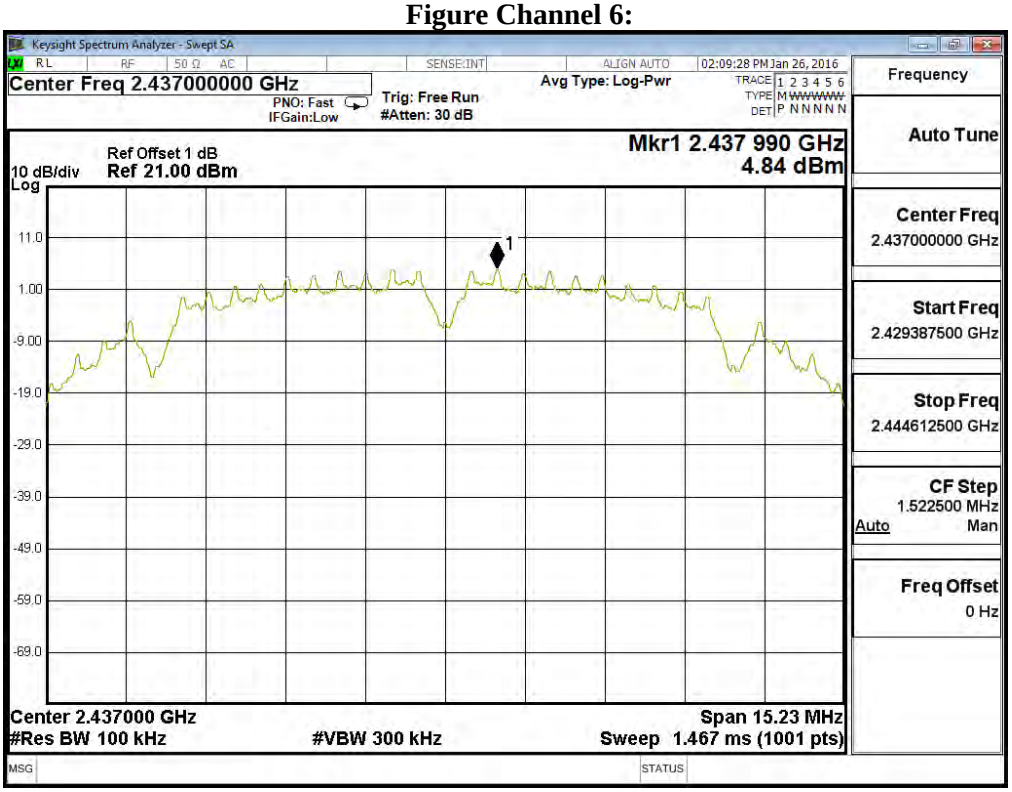
Figure Channel 1:



Product : Medical Cart Computer
Test Item : Power Density Data
Test Site : No.3OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437MHz) (19”+22”+24”)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
6	2437	4.840	≦8dBm	Pass

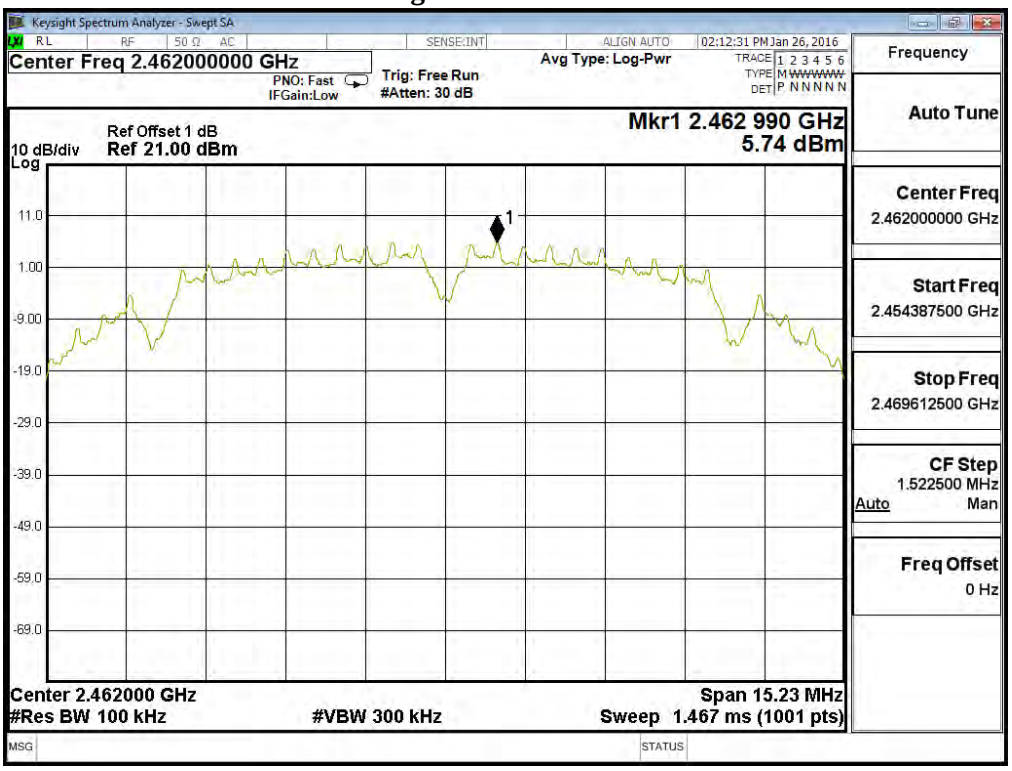
Figure Channel 6:



Product : Medical Cart Computer
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz) (19”+22”+24”)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
11	2462	5.740	≦8dBm	Pass

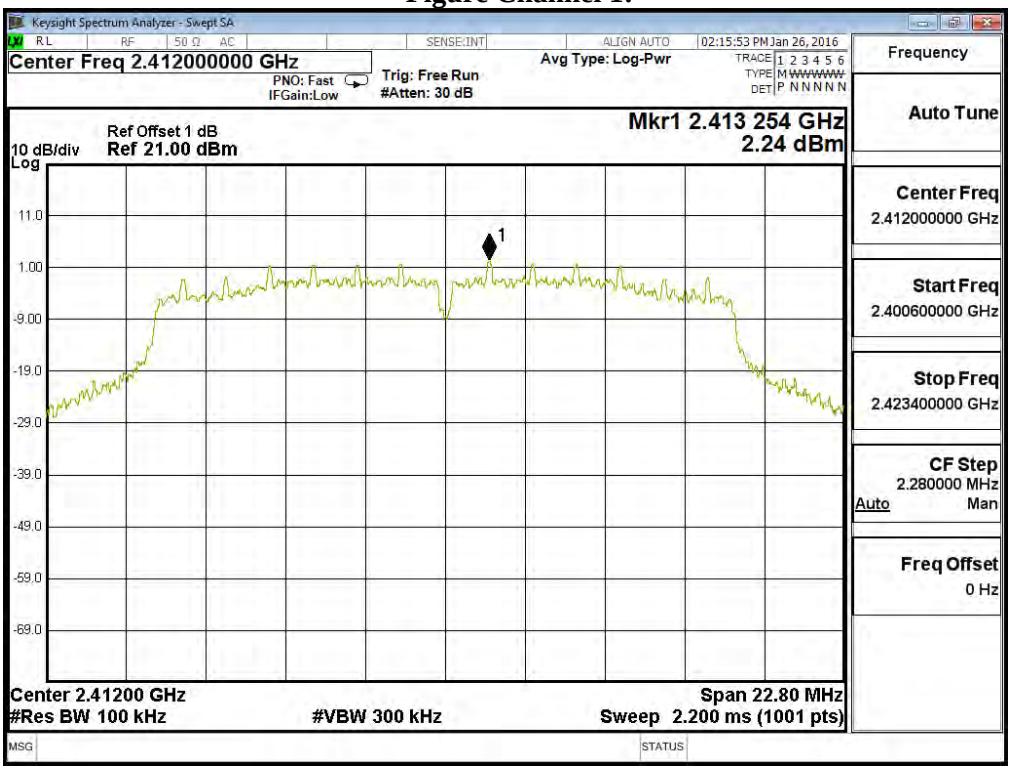
Figure Channel 11:



Product : Medical Cart Computer
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz) (19”+22”+24”)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	2.240	≦8dBm	Pass

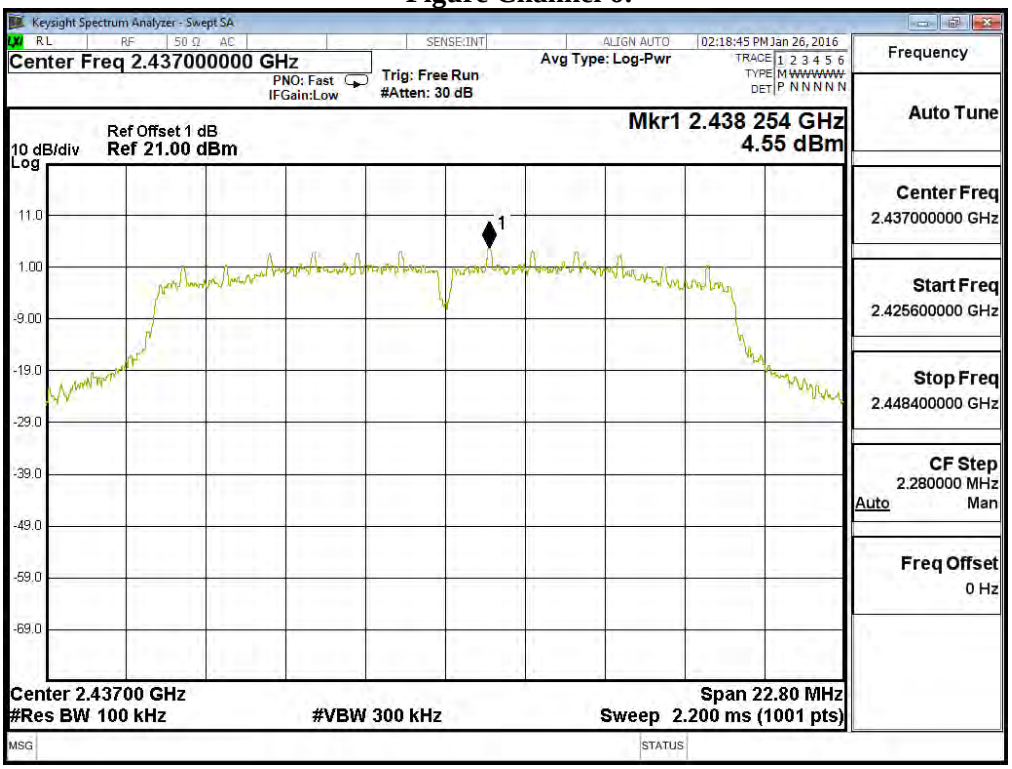
Figure Channel 1:



Product : Medical Cart Computer
Test Item : Power Density Data
Test Site : No.3OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437MHz) (19”+22”+24”)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
6	2437	4.550	≦8dBm	Pass

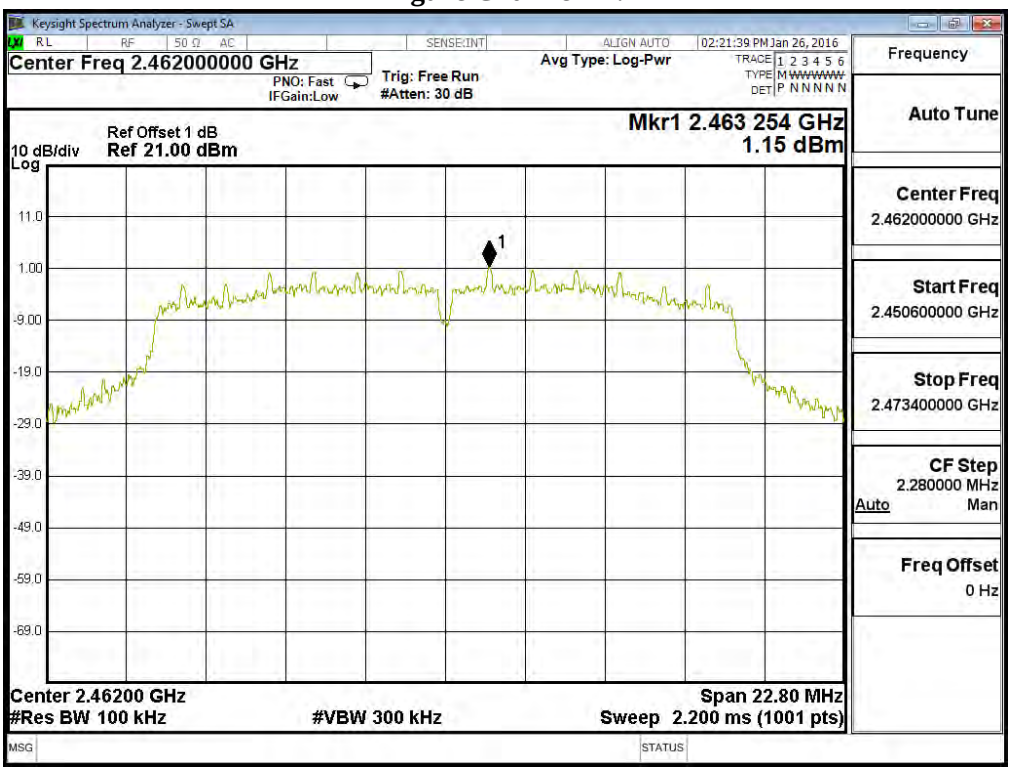
Figure Channel 6:



Product : Medical Cart Computer
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz) (19”+22”+24”)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
11	2462	1.150	≦8dBm	Pass

Figure Channel 11:



Product : Medical Cart Computer
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2412MHz) (19”+22”+24”)

CHAIN	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)1	Limit	Result
A	-0.230	2.780	≦8dBm	Pass
B	-0.860	2.150	≦8dBm	Pass

Note 1: The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 1: (Chain A)

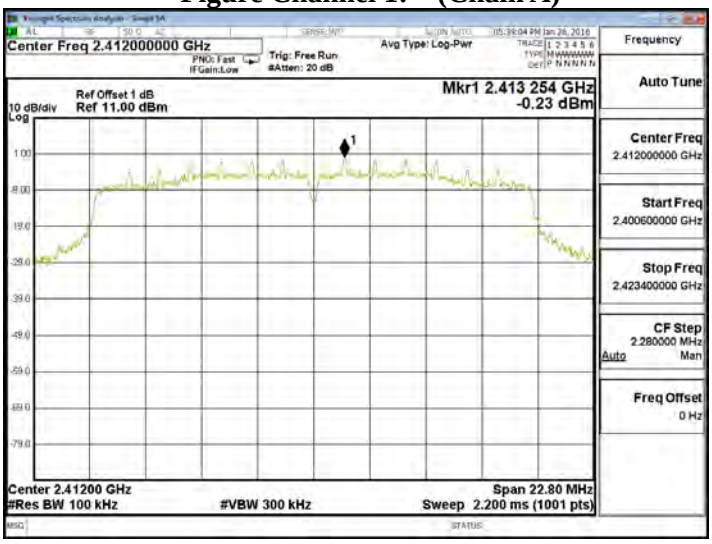
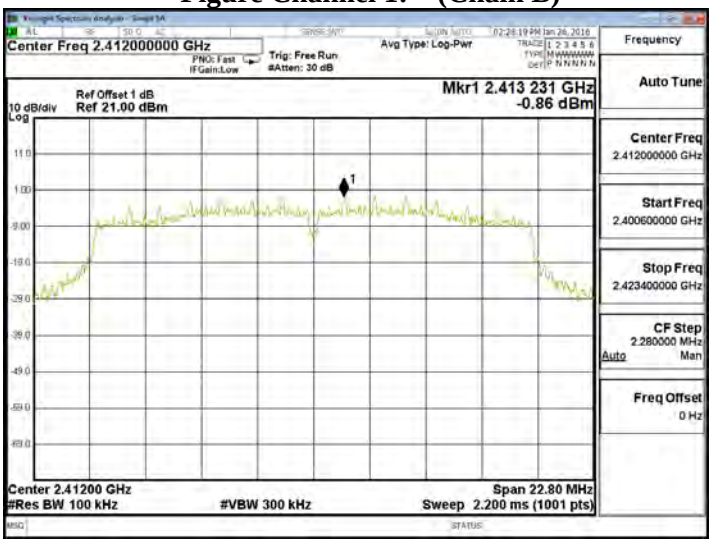


Figure Channel 1: (Chain B)



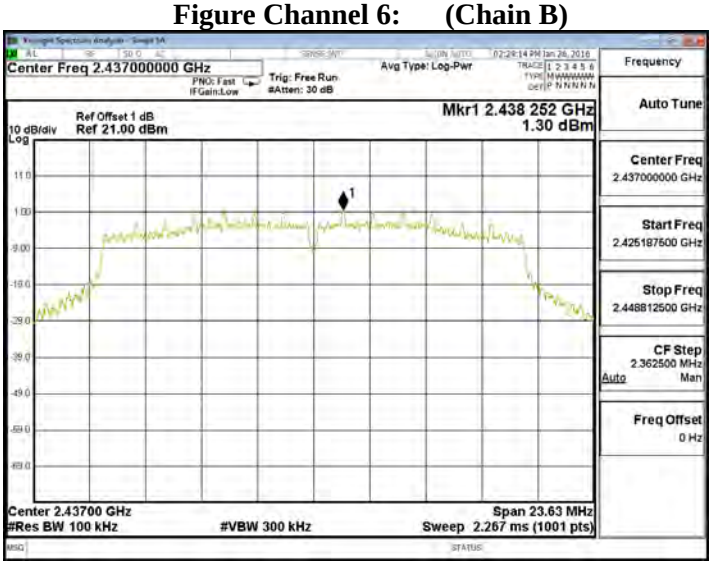
Product : Medical Cart Computer
Test Item : Power Density Data
Test Site : No.3OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2437MHz) (19”+22”+24”)

CHAIN	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)1	Limit	Result
A	1.970	4.980	≦8dBm	Pass
B	1.300	4.310	≦8dBm	Pass

Note 1: The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 6: (Chain A)

Figure Channel 6: (Chain B)



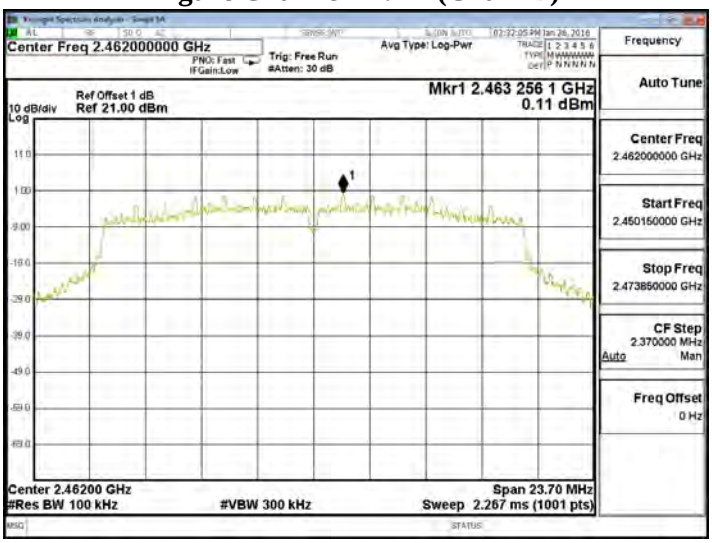
Product : Medical Cart Computer
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit - 802.11n-20BW_14.4Mbps(2.4G Band) (2462MHz) (19”+22”+24”)

CHAIN	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)1	Limit	Result
A	1.110	4.120	≦8dBm	Pass
B	0.110	3.120	≦8dBm	Pass

Note 1: The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 11: (Chain A)

Figure Channel 11: (Chain B)



Product : Medical Cart Computer
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2422MHz) (19”+22”+24”)

CHAIN	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)1	Limit	Result
A	-5.100	-2.090	≦8dBm	Pass
B	-5.890	-2.880	≦8dBm	Pass

Note 1: The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 3: (Chain A)

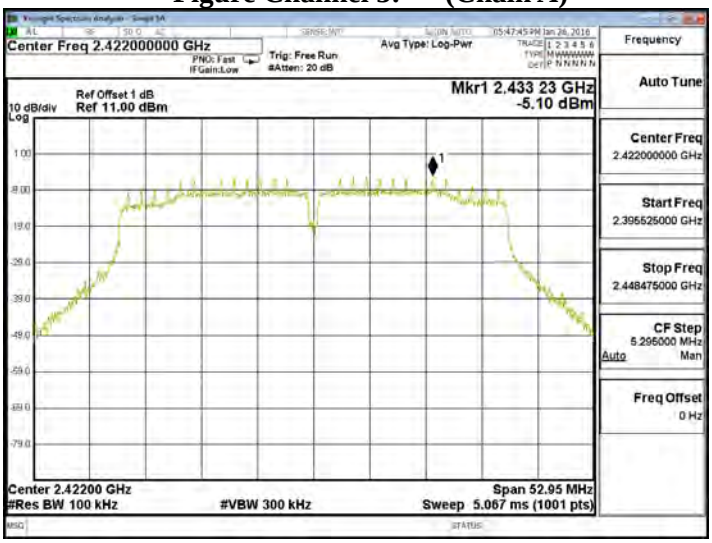


Figure Channel 3: (Chain B)

Product : Medical Cart Computer
Test Item : Power Density Data
Test Site : No.3OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2437MHz) (19”+22”+24”)

CHAIN	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)1	Limit	Result
A	-1.790	1.220	≦8dBm	Pass
B	-2.040	0.970	≦8dBm	Pass

Note 1: The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 6: (Chain A)

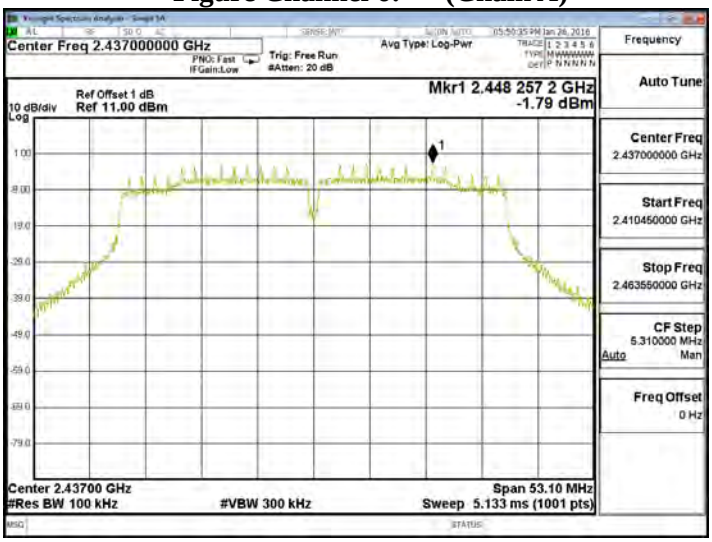
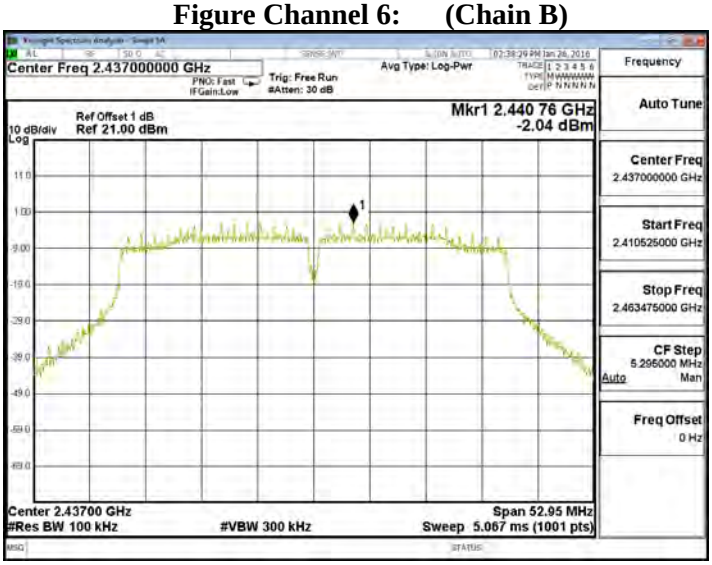


Figure Channel 6: (Chain B)



Product : Medical Cart Computer
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit - 802.11n-40BW_30Mbps(2.4G Band) (2452MHz) (19”+22”+24”)

CHAIN	PPSD/MHz (dBm)	Total PPSD/MHz (dBm)1	Limit	Result
A	-5.050	-2.040	≦8dBm	Pass
B	-5.630	-2.620	≦8dBm	Pass

Note 1: The quantity 10*log 2 (two antennas) is added to the spectrum peak value according to document 662911 D01.

Figure Channel 9: (Chain A)

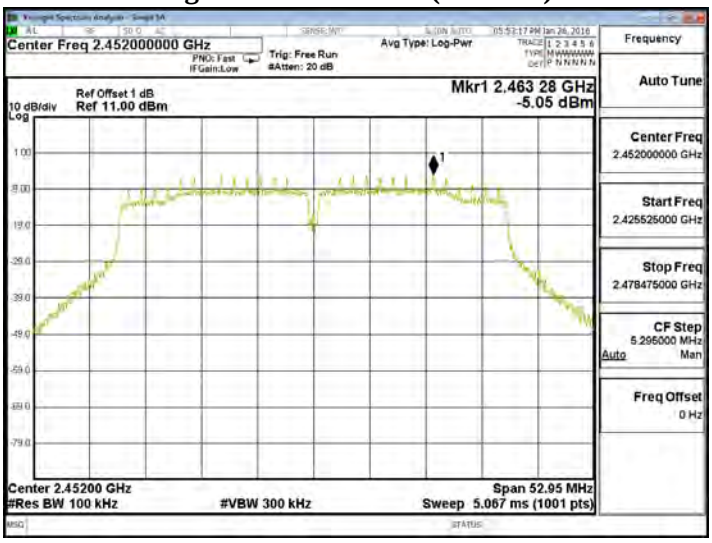
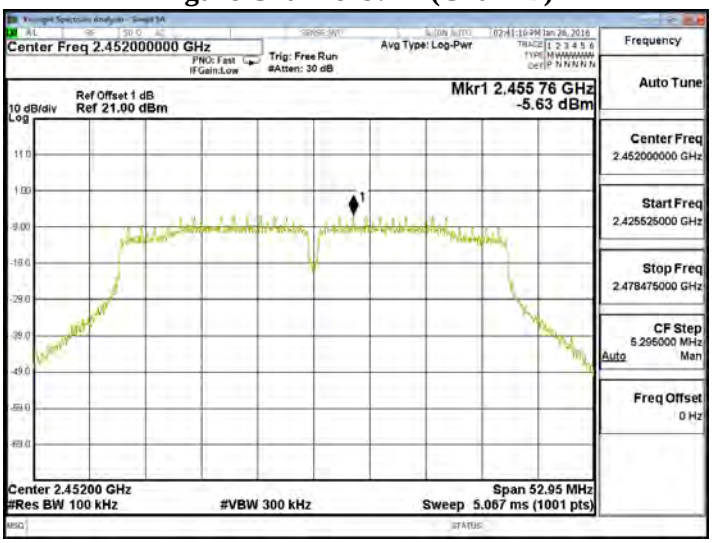


Figure Channel 9: (Chain B)



9. EMI Reduction Method During Compliance Testing

No modification was made during testing.