



**FCC CFR47 PART 15 SUBPART E
CLASS II PERMISSIVE CHANGE
CERTIFICATION TEST REPORT**

FOR

(3) PLUM A+ 3 WIRELESS INFUSERS

MODEL NUMBER: CUSTOM DWL-AG132

FCC ID: STJ80411396001

REPORT NUMBER: 07U10974-2

ISSUE DATE: APRIL 23, 2007

Prepared for
HOSPIRA, INC.
755 JARVIS DRIVE
MORGAN HILL, CA 95037, U.S.A.

Prepared by
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NVLAP[®]

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Revision History

Rev.	Issue Date	Revisions	Revised By
--	04/23/07	Initial Issue	T. Chan

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: HOSPIRA, INC.
755 JARVIS DRIVE
MORGAN HILL, CA 95037, U.S.A.

EUT DESCRIPTION: (3) PLUM A+ 3 WIRELESS INFUSERS

MODEL: CUSTOM DWL-AG132

SERIAL NUMBER: 15896261

DATE TESTED: APRIL 11-14, 2007

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART E	NO NON-COMPLIANCE NOTED

Compliance Certification Services, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:



THU CHAN
EMC SUPERVISOR
COMPLIANCE CERTIFICATION SERVICES

Tested By:



FRANK IBRAHIM
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2 and FCC CFR 47 Part 15.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 200 MHz	+/- 3.3 dB
Radiated Emission, 200 to 1000 MHz	+4.5 / -2.9 dB
Radiated Emission, 1000 to 2000 MHz	+4.5 / -2.9 dB
Radiated Emission, Above 2000 MHz	+/- 4.3 dB
Power Line Conducted Emission	+/- 2.9 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is an 802.11 a/b/g wireless upgrade module for Hospira Infusion Systems.

5.2. DESCRIPTION OF CLASS II CHANGE

The major change filed under this application is:

Adding host device PlumA+3 Infusion pump List No. 20678-04-77.

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The antenna type is surface mount PIFA omni-directional antenna with a maximum gain of 4.5dBi.

5.4. SOFTWARE AND FIRMWARE

The EUT driver software installed in the host support equipment during testing was AR5523, Version 1.0.1.0.

The test utility software used during testing was Art Software Revision 5.3, Build #24

5.5. WORST-CASE CONFIGURATION AND MODE

The worst-case channel is determined as the channel with the highest output power. The highest measured output power was at 5180 MHz. And 5700MHz

The worst-case data rate for this channel is determined to be 6 Mb/s, based on previous experience with 5.GHz WLAN product design architectures.

Thus all emissions tests in the 802.11a mode, 5.2GHz and 5.5GHz B were measured at 6 Mb/s

5.6. DESCRIPTION OF TEST SETUP

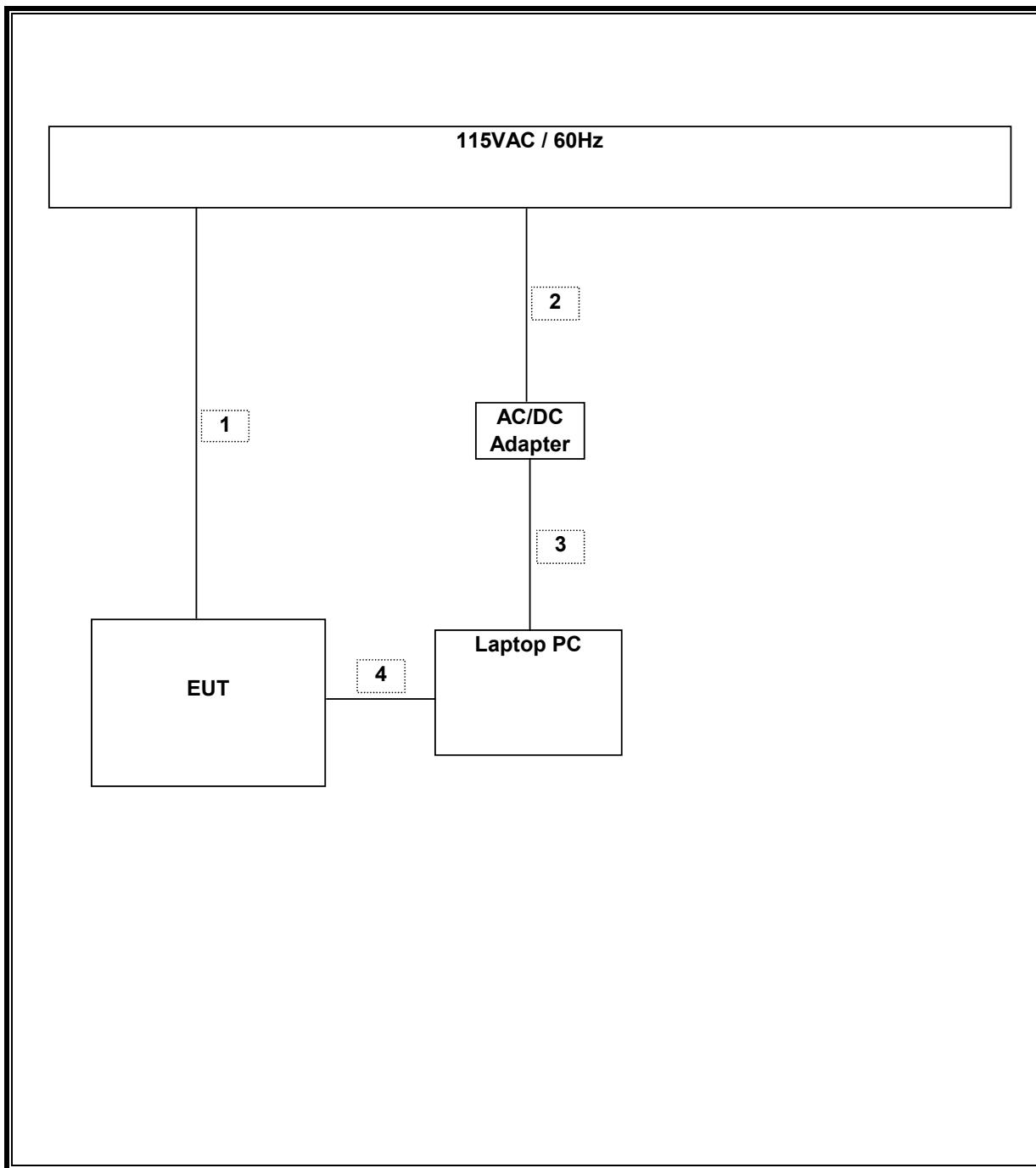
SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop PC	Dell	PP05L	CN-0T9369-48643-52P-4582	DoC
AC/DC Adapter	Dell	AA22850	CN-0T2357-16291-4AF-04LC	N/A

I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	1	AC	Unshielded	3m	N/A
2	AC	1	AC	Unshielded	0.9m	N/A
3	DC	1	DC	Unshielded	1.8m	N/A
4	USB	1	USB	Unshielded	1.7m	N/A

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	S/N	Cal Due
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	9001-3245	04/22/08
Antenna, Horn 1 ~ 18 GHz	ETS	3117	29301	04/22/08
Preamplifier, 1 ~ 26.5 GHz	Agilent / HP	8449B	3008A00561	10/03/07
Preamplifier, 26 ~ 40 GHz	Miteq	NSP4000-SP2	924343	08/18/07
Antenna, Horn 18 ~ 26 GHz	ARA	MWH-1826/B	1049	09/12/07
Antenna, Horn 26 ~ 40 GHz	ARA	MWH-2640/B	1029	04/13/08
EMI Test Receiver	R & S	ESHS 20	827129/006	06/03/07
LISN, 10 kHz ~ 30 MHz	FCC	LISN-50/250-25-2	2023	08/30/07
Bilog Antenna 30 MHz ~ 2 GHz	Sunol Sciences	JB1	A121003	09/03/07
Preamplifier, 1300 MHz	Agilent / HP	8447D	1937A02062	01/23/08
SA RF Section, 1.5 GHz	Agilent / HP	85680B	2814A04227	01/07/08
Quasi-Peak Adaptor	Agilent / HP	85650A	3145A01654	01/21/08
SA Display Section 2	Agilent / HP	85662A	2816A16696	04/07/08
Peak Power Meter	Agilent / HP	E4416A	GB41291160	12/02/07
Peak / Average Power Sensor	Agilent	E9327A	US40440755	12/02/07
Spectrum Analyzer	Agilent / HP	E4446A	MY43360112	05/03/07
7.6GHz HPF	MicroTronic	HPM13195	1	CNR

7. LIMITS AND RESULTS

7.1. RADIATED EMISSIONS

7.1.1. TRANSMITTER RADIATED SPURIOUS EMISSIONS

LIMITS

§15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)
13.36 - 13.41			

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

§15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

§15.209 (a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 - 88	100 **	3
88 - 216	150 **	3
216 - 960	200 **	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

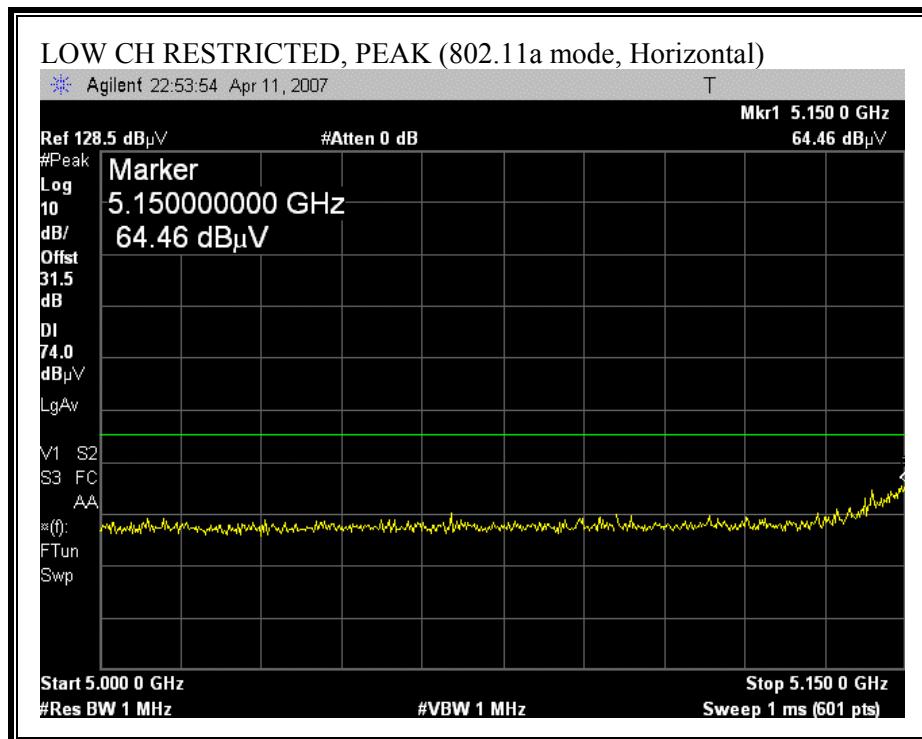
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

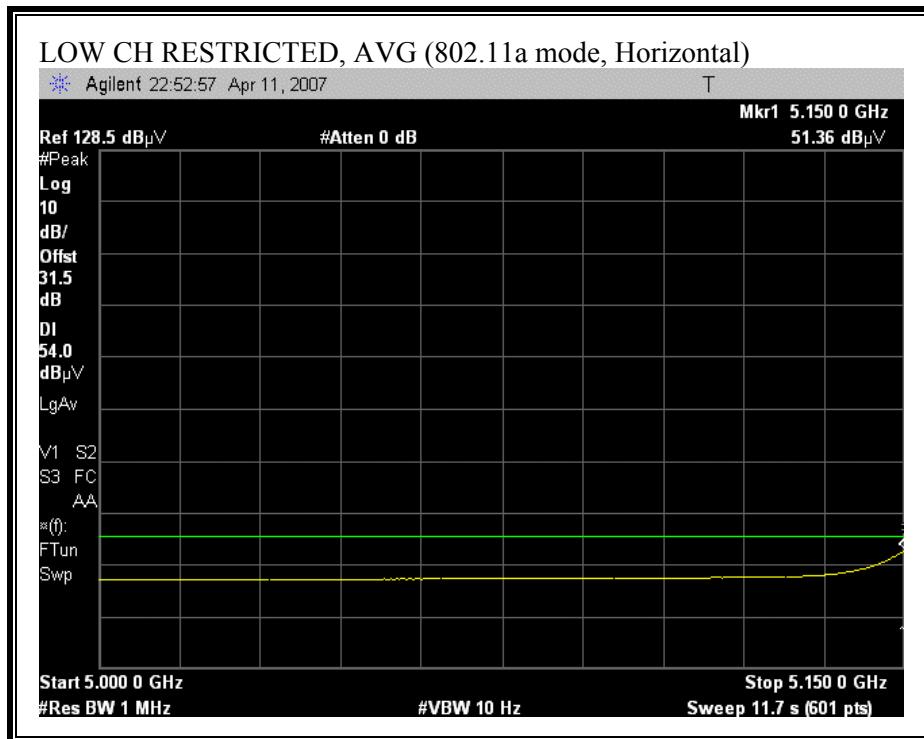
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

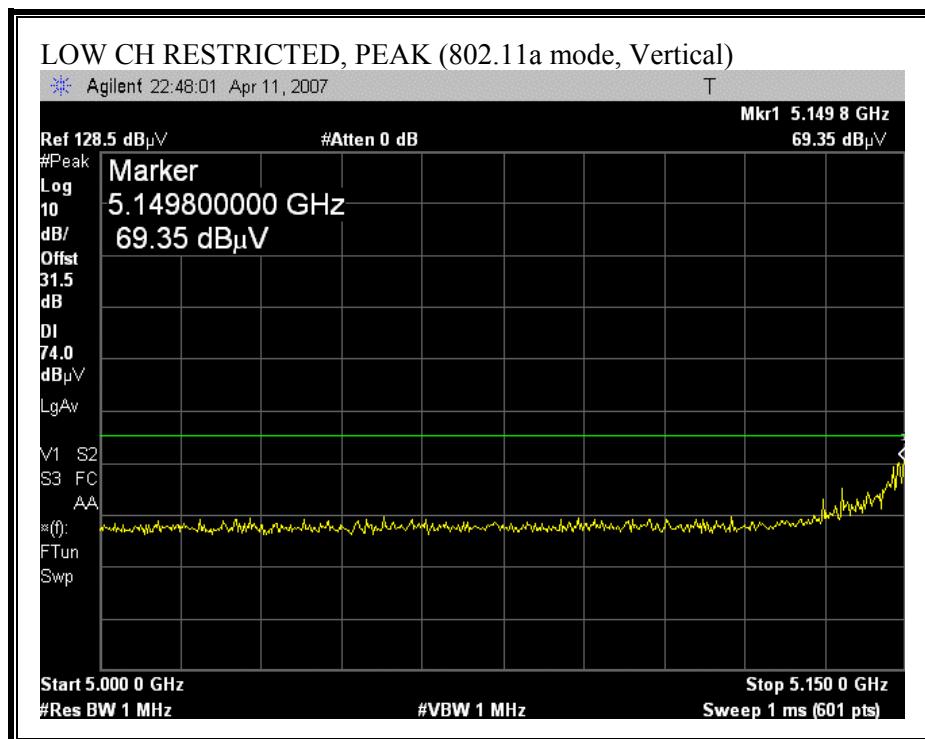
7.1.2. TRANSMITTER ABOVE 1 GHZ FOR 5150 TO 5350 MHz BAND

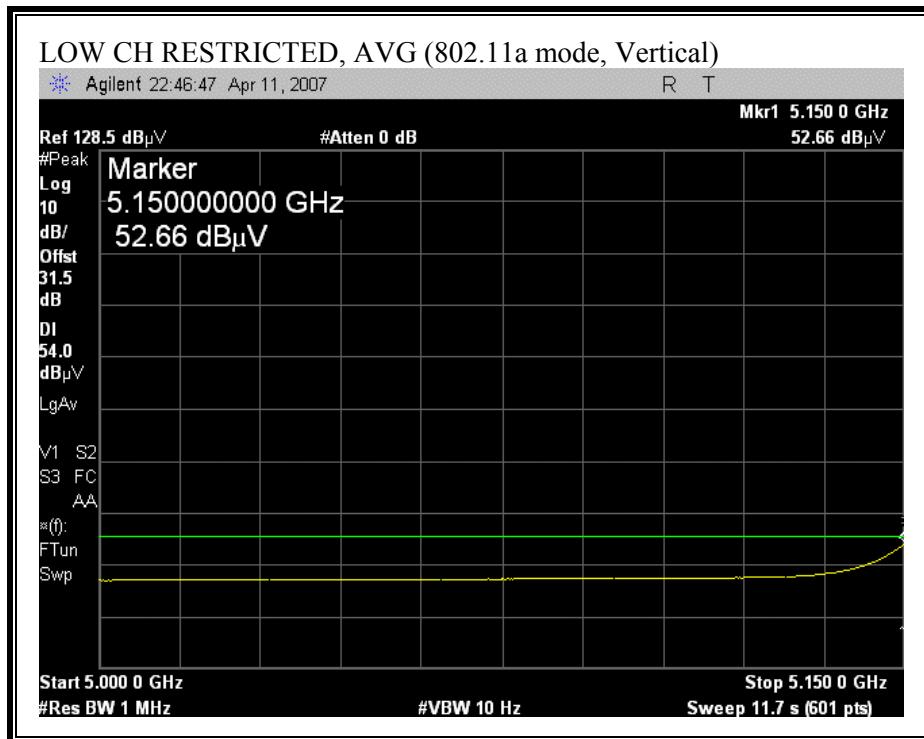
RESTRICTED BANDEDGE (802.11a MODE, LOW CHANNEL, HORIZONTAL)



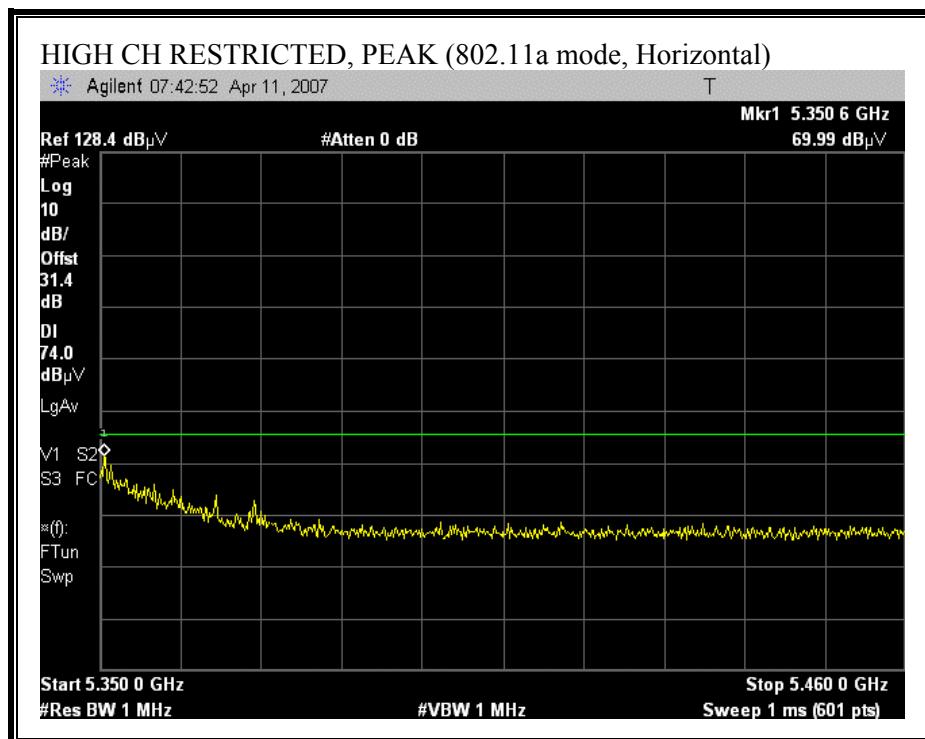


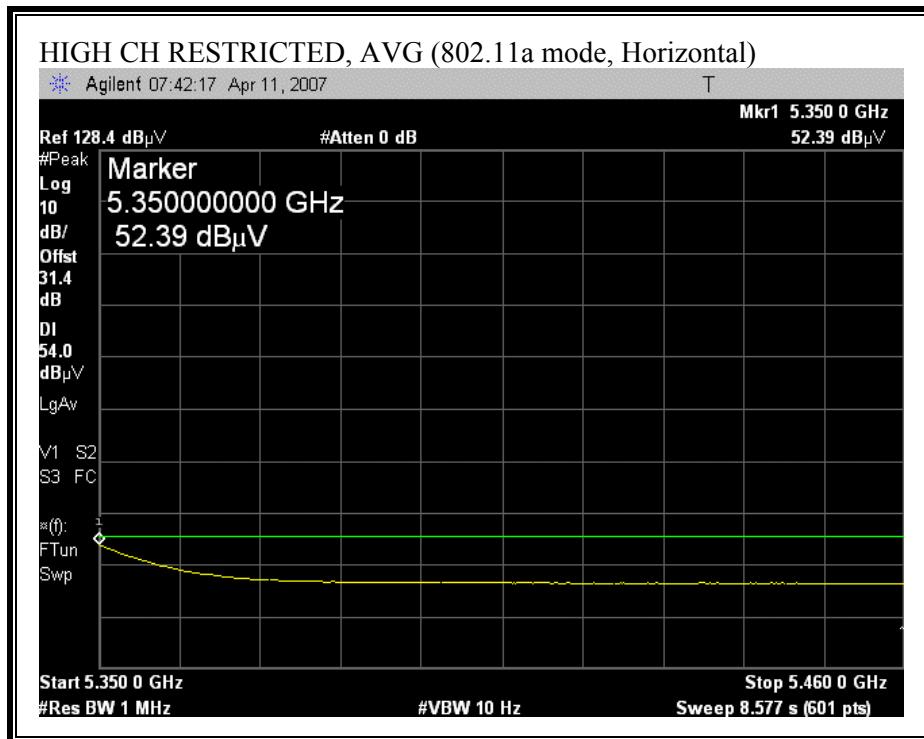
RESTRICTED BANDEDGE (802.11a MODE, LOW CHANNEL, VERTICAL)



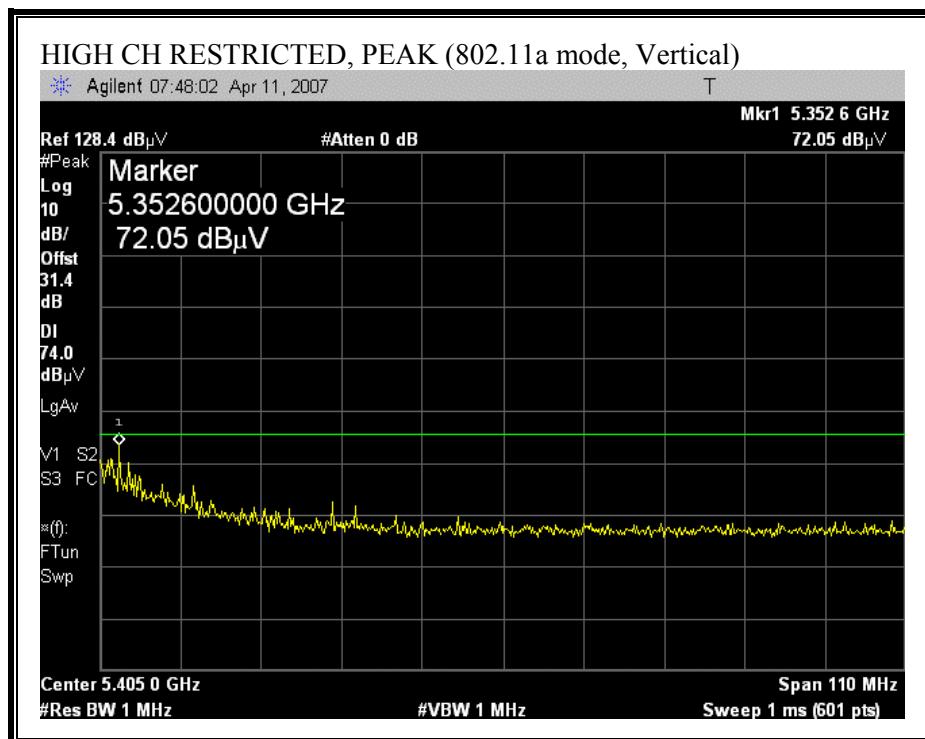


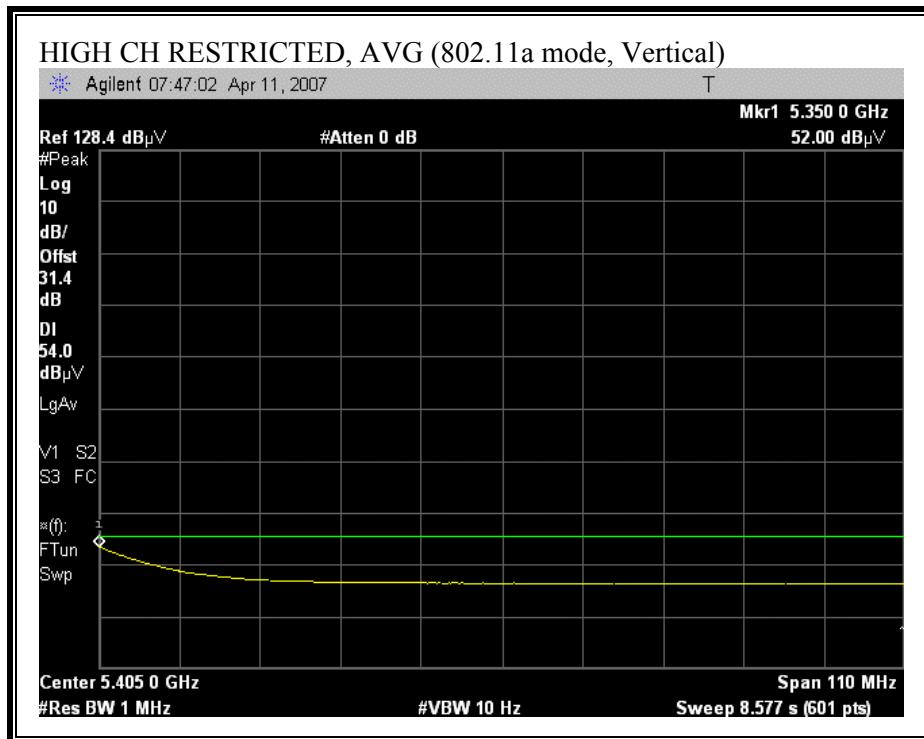
RESTRICTED BANDEDGE (802.11a MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (802.11a MODE, HIGH CHANNEL, VERTICAL)



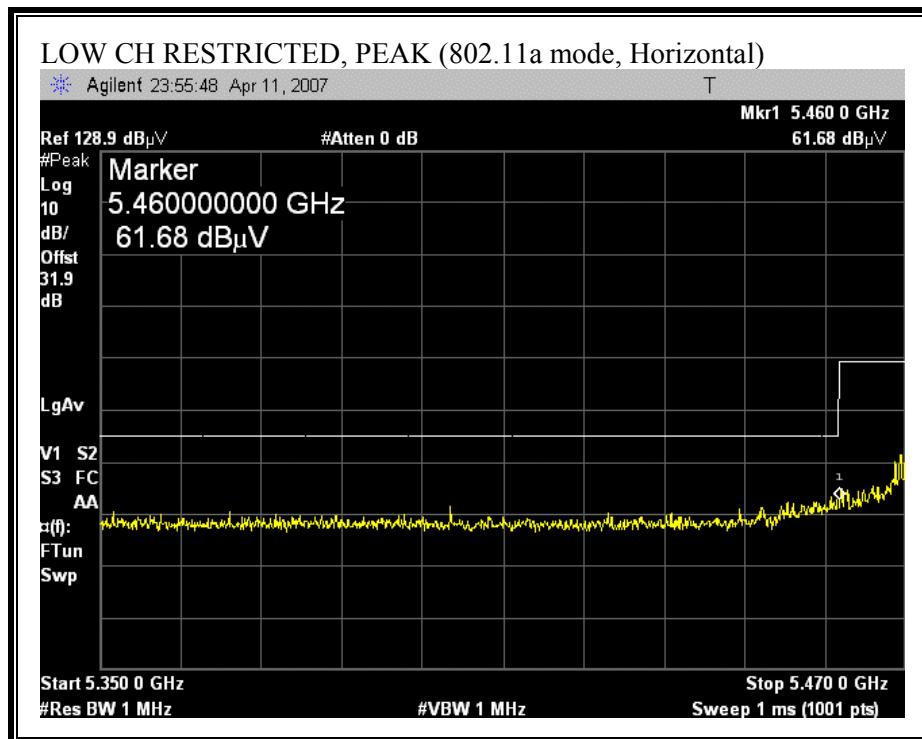


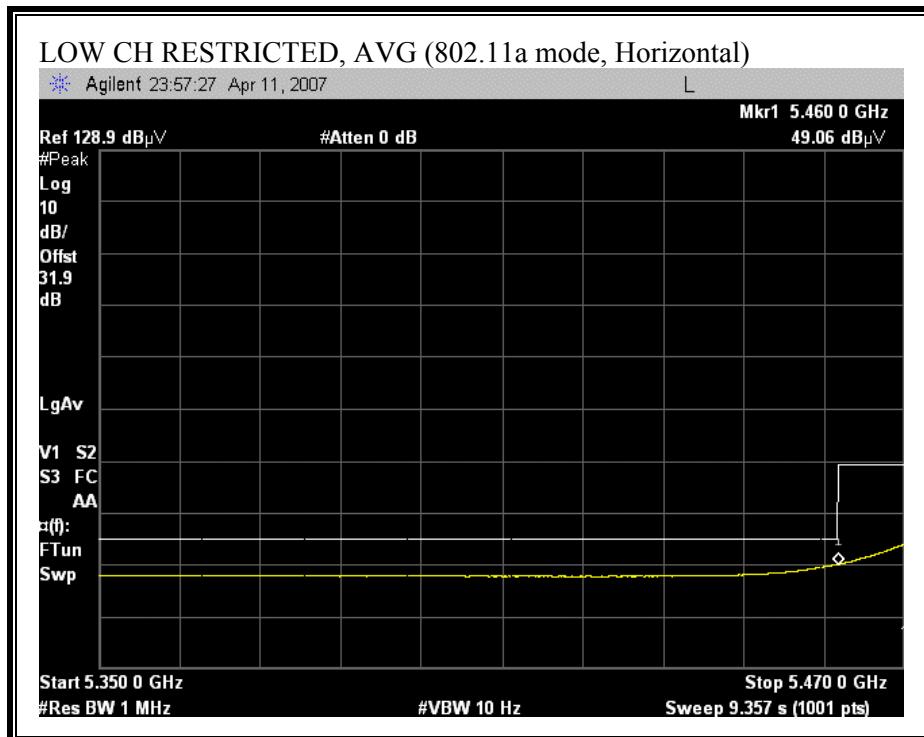
HARMONICS AND SPURIOUS EMISSIONS (802.11a MODE)

High Frequency Measurement Compliance Certification Services, Fremont 5 meter Chamber A																
Company: HOSPIRA Project #: 07U10974 Date: APRIL 13, 2007 Test Engineer: THANH NGUYEN Configuration: EUT AND Support Laptop Mode: Transmit a mode FCC UNII 5150 - 5350MHz																
Test Equipment:																
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit				
T73; S/N: 6717 @3m			T144 Miteq 3008A00931									FCC 15.209				
Hi Frequency Cables																
2 foot cable			3 foot cable			12 foot cable			HPF			Reject Filter			Peak Measurements RBW=VBW=1MHz	
						Gordon 203134001						R_001			Average Measurements RBW=1MHz; VBW=10Hz	
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuVm	Avg dBuVm	Pk Lim dBuVm	Avg Lim dBuVm	Pk Mar dB	Avg Mar dB	Notes (V/H)	
Low Channel 5180MHz																
10.360	3.0	42.36	30.87	37.0	10.4	-36.8	0.0	0.0	53.0	41.5	74	54	-21.0	-12.5	V	
15.540	3.0	43.94	31.36	38.1	12.7	-34.8	0.0	0.0	59.8	47.3	74	54	-14.2	-6.7	Noise floor	
10.360	3.0	42.19	30.56	37.0	10.4	-36.8	0.0	0.0	52.8	41.2	74	54	-21.2	-12.8	H	
15.540	3.0	43.49	31.20	38.1	12.7	-34.8	0.0	0.0	59.4	47.1	74	54	-14.6	-6.9	Noise floor	
Mid Channel 5260MHz																
10.520	3.0	40.81	28.52	37.1	10.6	-36.7	0.0	0.0	51.8	39.5	74	54	-22.2	-14.5	V	
15.780	3.0	42.22	30.45	37.5	12.8	-34.6	0.0	0.0	57.8	46.1	74	54	-16.2	-7.9	Noise floor	
10.520	3.0	39.57	28.35	37.1	10.6	-36.7	0.0	0.0	50.6	39.3	74	54	-23.4	-14.7	H	
15.780	3.0	42.08	30.12	37.5	12.8	-34.6	0.0	0.0	57.7	45.7	74	54	-16.3	-8.3	Noise floor	
High Channel 5320MHz																
10.640	3.0	41.44	30.37	37.1	10.7	-36.6	0.0	0.0	52.7	41.6	74	54	-21.3	-12.4	H	
15.960	3.0	41.99	30.67	37.1	12.8	-34.5	0.0	0.0	57.4	46.1	74	54	-16.6	-7.9	Noise floor	
10.640	3.0	40.38	30.14	37.1	10.7	-36.6	0.0	0.0	51.6	41.4	74	54	-22.4	-12.6	V	
15.960	3.0	42.45	30.26	37.1	12.8	-34.5	0.0	0.0	57.9	45.7	74	54	-16.1	-8.3	Noise floor	
No other emissions were detected above noise floor																
Rev. 5.1.6																
f Measurement Frequency Dist Distance to Antenna Read Analyzer Reading AF Antenna Factor CL Cable Loss					Amp Preamp Gain D Corr Distance Correct to 3 meters Avg Average Field Strength @ 3 m Peak Calculated Peak Field Strength HPF High Pass Filter					Avg Lim Average Field Strength Limit Pk Lim Peak Field Strength Limit Avg Mar Margin vs. Average Limit Pk Mar Margin vs. Peak Limit						

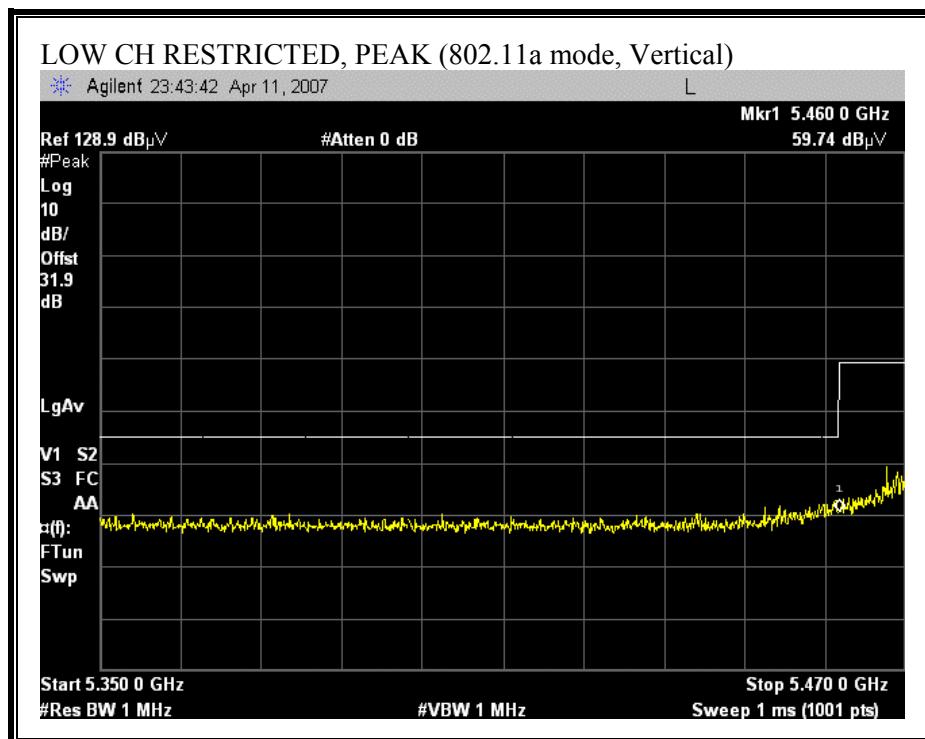
7.1.3. TRANSMITTER ABOVE 1 GHZ FOR 5470 TO 5725 MHz BAND

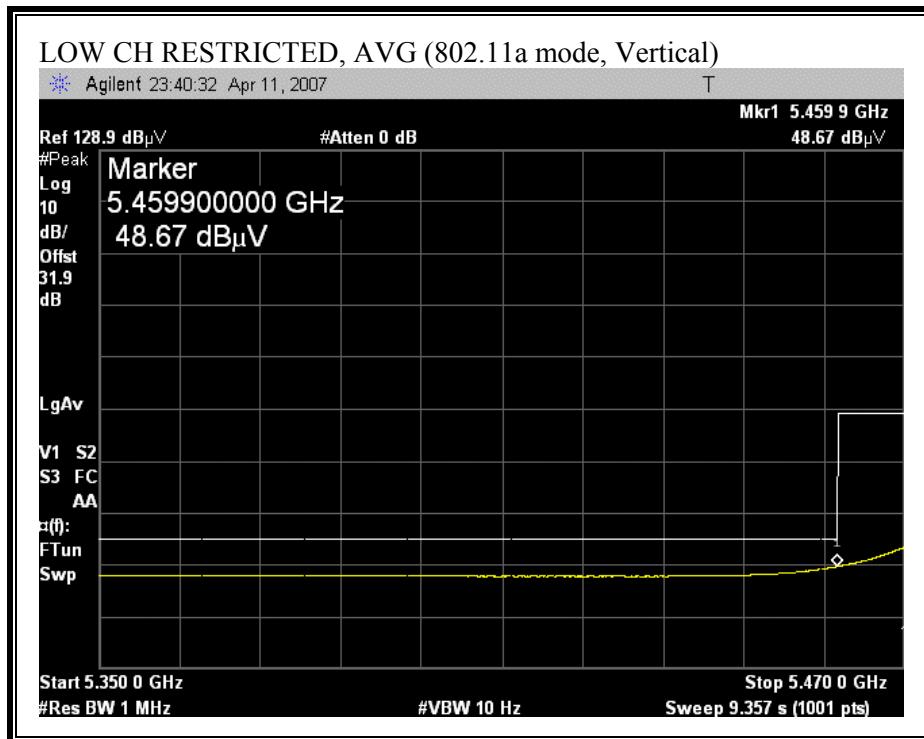
RESTRICTED BANDEDGE (802.11a MODE, LOW CHANNEL, HORIZONTAL)



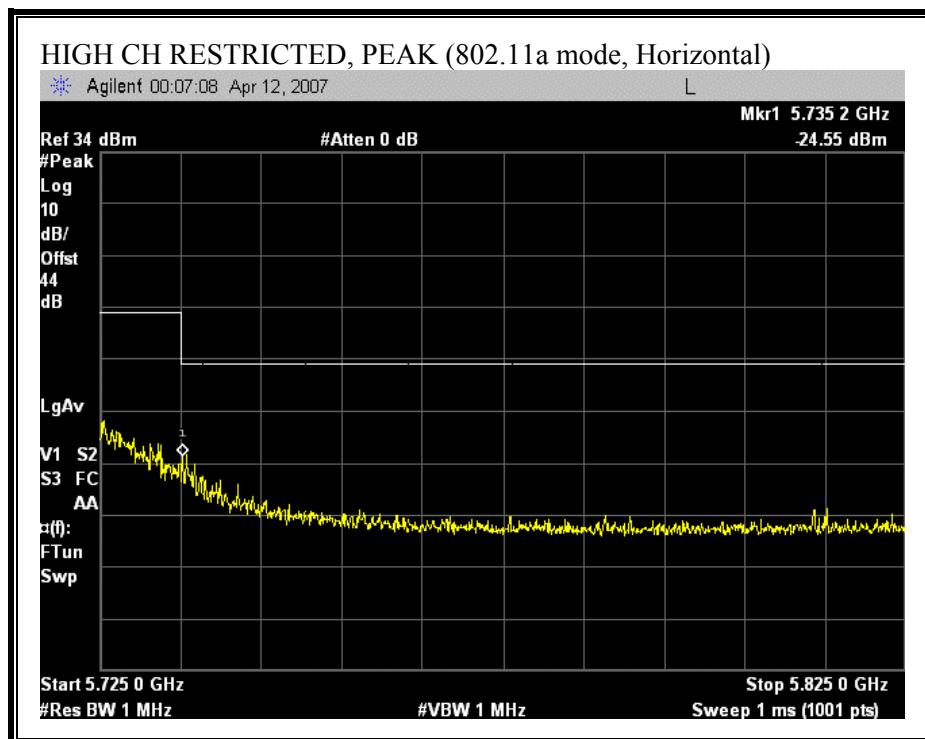


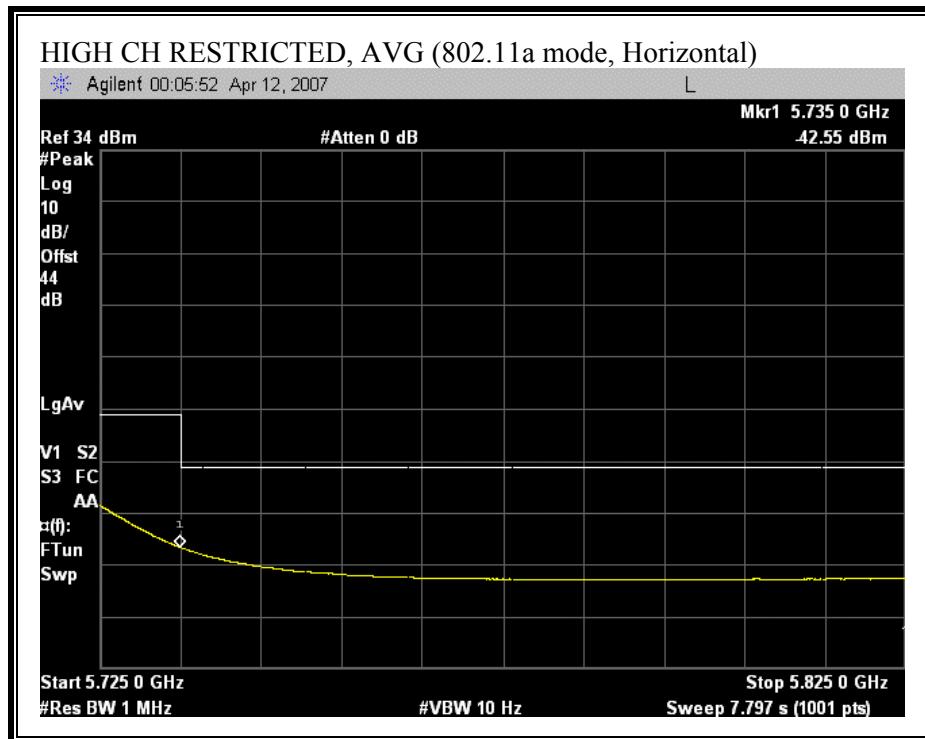
RESTRICTED BANDEDGE (802.11a MODE, LOW CHANNEL, VERTICAL)



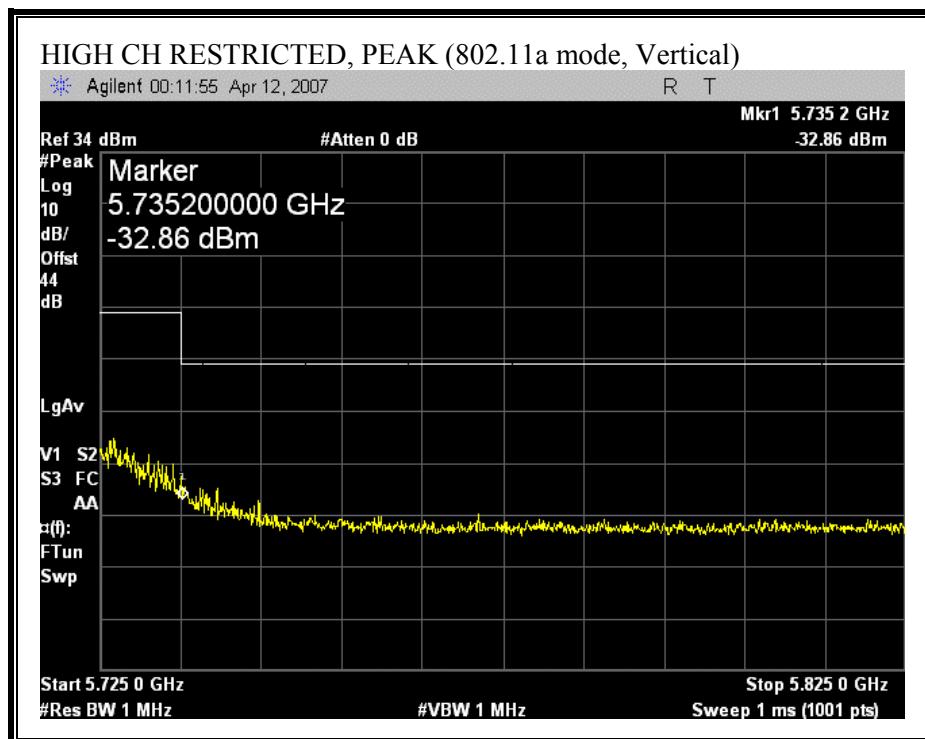


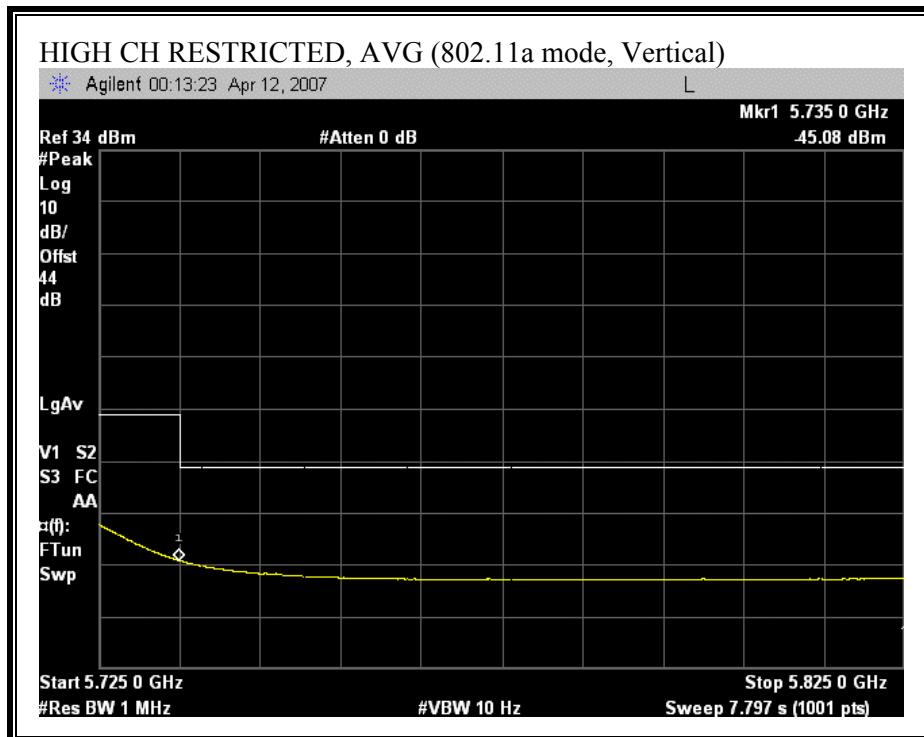
RESTRICTED BANDEDGE (802.11a MODE, HIGH CHANNEL, HORIZONTAL)





RESTRICTED BANDEDGE (802.11a MODE, HIGH CHANNEL, VERTICAL)





HARMONICS AND SPURIOUS EMISSIONS (802.11a MODE)

High Frequency Measurement Compliance Certification Services, Fremont 5 meter Chamber A																																							
Company: HOSPIRA Project #: 07U10974 Date: APRIL 13, 2007 Test Engineer: THANH NGUYEN Configuration: EUT AND Support Laptop Mode: Transmit a mode FCC UNII 5470 - 5725MHz																																							
Test Equipment: <table border="1"> <tr> <td>Horn 1-18GHz</td> <td>Pre-amplifier 1-26GHz</td> <td>Pre-amplifier 26-40GHz</td> <td>Horn > 18GHz</td> </tr> <tr> <td>T73; S/N: 6717 @3m</td> <td>T144 Miteq 3008A00931</td> <td></td> <td></td> </tr> <tr> <td colspan="4">Hi Frequency Cables</td> </tr> <tr> <td>2 foot cable</td> <td>3 foot cable</td> <td>12 foot cable</td> <td>HPF</td> <td>Reject Filter</td> <td>Peak Measurements RBW=VBW=1MHz</td> </tr> <tr> <td></td> <td></td> <td>Gordon 203134001</td> <td></td> <td>R_001</td> <td>Average Measurements RBW=1MHz ; VBW=10Hz</td> </tr> </table>																Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	T73; S/N: 6717 @3m	T144 Miteq 3008A00931			Hi Frequency Cables				2 foot cable	3 foot cable	12 foot cable	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz			Gordon 203134001		R_001	Average Measurements RBW=1MHz ; VBW=10Hz
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f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)																								
Low Channel 5500MHz																																							
11.000	3.0	43.96	30.00	37.2	11.1	-36.3	0.0	0.0	56.0	42.1	74	54	-18.0	-11.9	V																								
16.500	3.0	40.58	30.36	38.9	13.0	-34.1	0.0	0.0	58.5	48.2	74	54	-15.5	-5.8	Noise floor																								
11.000	3.0	40.41	29.16	37.2	11.1	-36.3	0.0	0.0	52.5	41.2	74	54	-21.5	-12.8	H																								
16.500	3.0	41.13	30.86	38.9	13.0	-34.1	0.0	0.0	59.0	48.7	74	54	-15.0	-5.3	Noise floor																								
Mid Channel 5600MHz																																							
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10.520	3.0	39.57	28.35	37.1	10.6	-36.7	0.0	0.0	50.6	39.3	74	54	-23.4	-14.7	H																								
15.780	3.0	42.08	30.12	37.5	12.8	-34.6	0.0	0.0	57.7	45.7	74	54	-16.3	-8.3	Noise floor																								
High Channel 5700MHz																																							
11.200	3.0	40.51	30.10	37.3	11.3	-36.1	0.0	0.0	53.1	42.6	74	54	-20.9	-11.4	H																								
16.800	3.0	40.67	29.75	40.1	13.1	-33.8	0.0	0.0	60.0	49.1	74	54	-14.0	-4.9	Noise floor																								
11.200	3.0	40.75	30.34	37.3	11.3	-36.1	0.0	0.0	53.3	42.9	74	54	-20.7	-11.1	V																								
16.800	3.0	40.89	31.35	40.1	13.1	-33.8	0.0	0.0	60.3	50.7	74	54	-13.7	-3.3	Noise floor																								
No other emissions were detected above noise floor																																							
Rev. 5.1.6																																							
f	Measurement Frequency			Amp	Preamp Gain						Avg Lim	Average Field Strength Limit																											
Dist	Distance to Antenna			D Corr	Distance Correct to 3 meters						Pk Lim	Peak Field Strength Limit																											
Read	Analyzer Reading			Avg	Average Field Strength @ 3 m						Avg Mar	Margin vs. Average Limit																											
AF	Antenna Factor			Peak	Calculated Peak Field Strength						Pk Mar	Margin vs. Peak Limit																											
CL	Cable Loss			HPF	High Pass Filter																																		

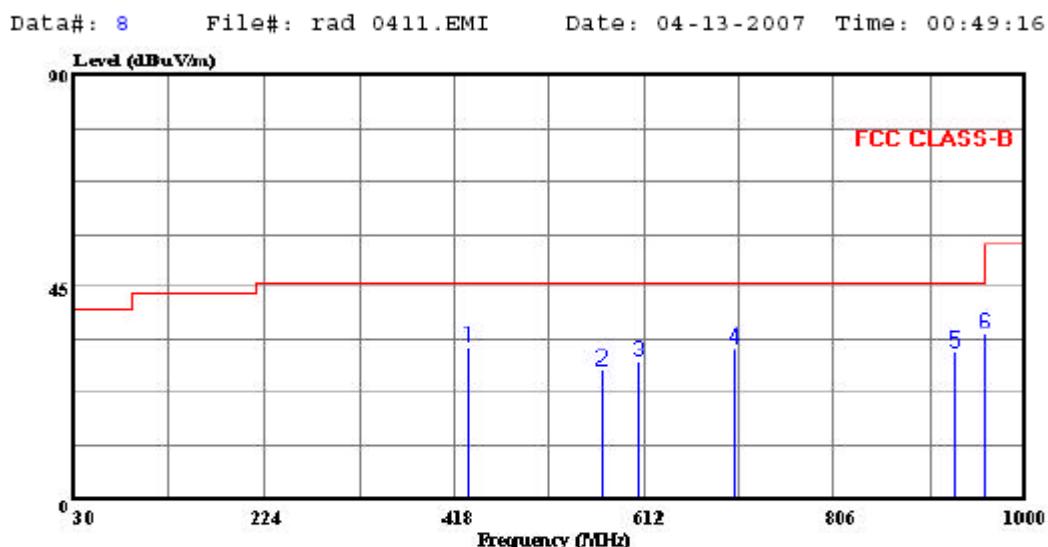
7.1.4. WORST-CASE RADIATED EMISSIONS BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

HORIZONTAL PLOT



47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888



Trace:

Ref Trace:

Condition: FCC CLASS-B 3m A-5M CHAMBER 012007 HORIZONTAL
Test Operator: : Frank Ibrahim
Company: : Hospira
Project #: : 07U10974
Configuration: : EUT connected to Laptop PC
Mode of Operation: : Transmitting in 802.11 mode, Low
: Channel (5745 MHz), at 19 dBm
S/N : 15896261
Target : FCC Class B

HORIZONTAL DATA

Freq	Read	Probe	Cable	Preamp	Limit	Over	Limit	Remark
	Level	Factor	Loss	Factor				
	MHz	dBuV	dB	dB	dBuV/m	dBuV/m	dB	dB
1	431.580	44.80	16.66	2.25	31.50	32.21	46.00	-13.79 Peak
2	569.320	37.70	18.90	2.62	31.83	27.40	46.00	-18.60 Peak
3	606.180	39.20	19.36	2.74	31.93	29.37	46.00	-16.63 Peak
4	705.120	40.00	20.62	2.98	31.83	31.76	46.00	-14.24 Peak
5	929.190	35.70	23.02	3.53	30.96	31.29	46.00	-14.71 Peak
6	960.230	38.80	23.31	3.61	30.65	35.07	54.00	-18.93 Peak

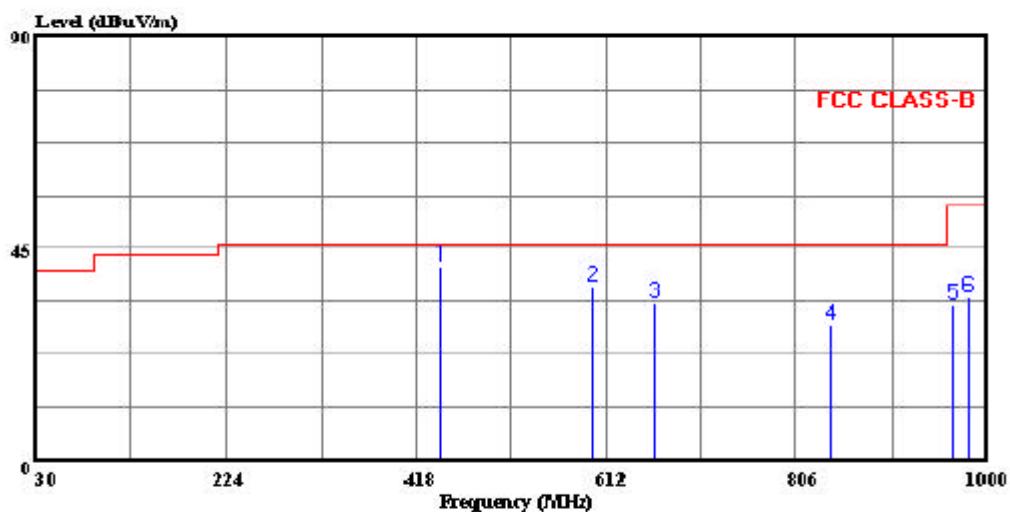
SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)

VERTICAL PLOT



47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 4 File#: rad 0411.EMI Date: 04-13-2007 Time: 00:27:20



Trace:

Ref Trace:

Condition: FCC CLASS-B 3m A-5M CHAMBER 012007 VERTICAL
Test Operator: : Frank Ibrahim
Company: : Hospira
Project #: : 07U10974
Configuration: : EUT connected to Laptop PC
Mode of Operation: : Transmitting in 802.11 mode, Low
: Channel (5745 MHz), at 19 dBm
S/N : 15896261
Target : FCC Class B

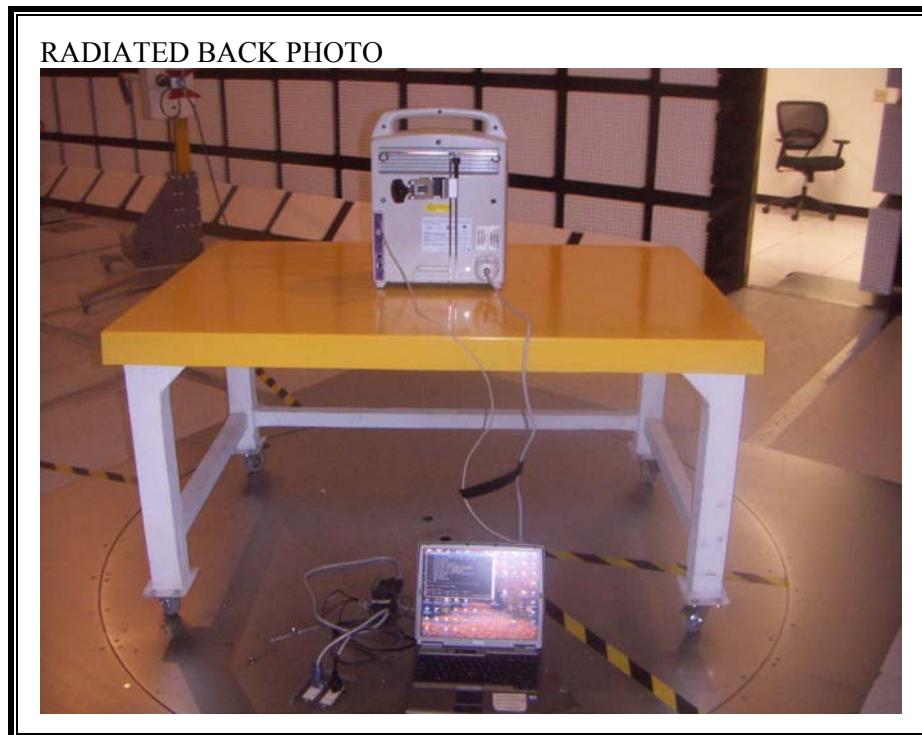
VERTICAL DATA

	Freq	Read Level	Probe Factor	Cable Loss	Preamp Factor	Limit Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	443.220	53.70	16.90	2.30	31.53	41.37	46.00	-4.63	Peak
2	597.450	46.80	19.25	2.69	31.85	36.89	46.00	-9.11	Peak
3	661.470	42.30	20.09	2.82	31.79	33.42	46.00	-12.58	Peak
4	839.950	34.90	22.13	3.22	31.56	28.69	46.00	-17.31	Peak
5	967.020	36.60	23.37	3.53	30.43	33.08	54.00	-20.92	Peak
6	981.570	37.90	23.51	3.53	30.42	34.52	54.00	-19.48	Peak

8. SETUP PHOTOS

RADIATED RF MEASUREMENT SETUP





END OF REPORT