

Digital Path

ADDENDUM TEST REPORT TO 94341-13

GEN6 CPE
Model: 2x

Tested To The Following Standards:

FCC Part 15 Subpart C Sections 15.247
and
RSS 210 Issue 8

Report No.: 94341-13A

Date of issue: July 16, 2013



This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

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ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

Digital Path
275 Air Park Blvd., Suite 500
Chico, CA 95973

Representative: Brock Eastman
Customer Reference Number: 52009

DATE OF EQUIPMENT RECEIPT:

DATE(S) OF TESTING:

REPORT PREPARED BY:

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CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Project Number: 94341

June 3, 2013

June 3-22, 2013

Revision History

Original: Testing of the GEN6 CPE, Model 2x to FCC Part 15 Subpart C Sections 15.247 and RSS-210 Issue 8.

Addendum A: Removes incorrect reference to test methods in the summary table and the data table for Radiated Spurious Emissions was replaced.

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information



Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
1120 Fulton Place
Fremont, CA 94539

Software Versions

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.00.14
Immunity	5.00.07

Site Registration & Accreditation Information

Location	CB #	TAIWAN	CANADA	FCC	JAPAN
Fremont	US0082	SL2-IN-E-1148R	3082B-1	958979	A-0149

SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart C

Description	Test Procedure/Method	Results
Voltage Variation	FCC Part 15 Subpart C Section 15.31(e)	Pass
Conducted Emissions	FCC Part 15 Subpart C Section 15.207 / ANSI C63.4 (2003)	Pass
-6dB & 99% Occupied Bandwidth	FCC Part 15 Subpart C Section 15.247 (a)(2) / RSS 210 Issue 8	Pass
RF Power Output	FCC Part 15 Subpart C Section 15.247 (b)(3)	Pass
Spurious Conducted Emissions	FCC Part 15 Subpart C Section 15.247 (d)	Pass
Bandedge	FCC Part 15 Subpart C / ITU-R 55/1	Pass
Radiated Spurious Emissions	FCC Part 15 Subpart C Section 15.247(d) / 15.209 (c)(d)	Pass
Power Spectral Density	FCC Part 15 Subpart C 15.247(e)	Pass

Conditions During Testing

This list is a summary of the conditions noted for or modifications made to the equipment during testing.

Summary of Conditions
<p>Final Power Settings, LO, MID & HI Channels and worst case data rates/modulations to comply with Radiated Spurious , Conducted Power, Conducted Spurious and Bandedge compliance. The TX power settings are the power level entered in the ART Software to set the output power of the radio.</p> <p>5GHz Dish (24 dBi) Point to Point</p> <p>5725-5850MHz Freq: 5735MHz, 5785MHz, 5840MHz. BW = 5 MHz 802.11n: 19.5Mbps, TX power setting= 24,24,24</p> <p>Freq: 5740MHz, 5785MHz, 5835MHz. BW= 10MHz 802.11a: 13.5 Mbps, TX power setting = 25,25,25</p> <p>During testing, One ferrite (Steward 28A 2024-0A0) added with one pass through on RJ45 Data cables.</p>

EQUIPMENT UNDER TEST (EUT)

EQUIPMENT UNDER TEST

GEN6 CPE

Manuf: Digital Path
Model: 2x
Serial: 004

POE Power Adapter

Manuf: ITE Power Supply
Model: FAS24000050-C44
Serial: None

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device(s):

AC/DC Power Adapter for Laptop

Manuf: HP
Model: Series PPP012H-S
Serial: F12941126327228

Laptop

Manuf: HP
Model: Probook 6565b
Serial: None

FCC PART 15 SUBPART C

This report contains EMC emissions test results under United States Federal Communications Commission (FCC) 47 CFR 15C requirements for Unlicensed Radio Frequency Devices, Subpart C - Intentional Radiators.

15.31(e) Voltage Variations

Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**

Specification: **15.31e**

Work Order #: **94341**

Date: 6/19/2013

Test Type: **Conducted**

Time: 6:13:43 PM

Equipment: **GEN 6 CPE**

Sequence#: 1

Manufacturer: Digital Path

Tested By: Hieu Song Nguyenpham

Model: 2x

S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
	ANP06125	Cable	32022-29094K- 29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Software Used: art2_ver2_28_6BIN

Temperature: 22.3°C

Humidity: 41 %

Atmospheric Pressure: 101.4 kPa

High Clock: 40 MHz clock, board runs at 560 MHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band

Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz

2 Chain: Chain 0 and Chain1

RF out power =25dBm

Cable loss = 1.56dB

Attenuator=9.4dB

The EUT is on the table and connected to the Spectrum Analyzer.

15.31(e) The RF output power was not changed when adjusting the voltage 120V down to 85% and up to 115%.

15.207 AC Conducted Emissions

Test Data Sheets

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **94341**
 Test Type: **Conducted Emissions**
 Equipment: **GEN6 CPE**
 Manufacturer: Digital Path
 Model: 2x
 S/N: 004

Date: 6/20/2013
 Time: 20:21:34
 Sequence#: 79
 Tested By: Hieu Song Nguyenpham
 120V 60Hz

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP01211	Attenuator	PE7002-10	4/2/2013	4/2/2015
T2	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T3	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
T4	AN00493	50uH LISN-L1 (L) Loss W/O European Adapter	3816/NM	3/4/2013	3/4/2015
	AN00493	50uH LISN-L(2) N Loss W/O European Adapter	3816/NM	3/4/2013	3/4/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T5	ANP05258	High Pass Filter	HE9615-150K- 50-720B	12/6/2012	12/6/2014

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Emission
 Frequency Range: 150kHz to 30MHz
 Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

The EUT installed on a metal pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop which is outside of the chamber.

The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is active. Vertical polarity of the antenna is connected to Chain 1. Horizontal polarity of the antenna is connected to Chain 0.

Note: Adding one ferrite (Steward 28A 2024-0A0) with one pass through on RJ45 Data cables.

Ext Attn: 0 dB

Measurement Data:

Reading listed by margin.

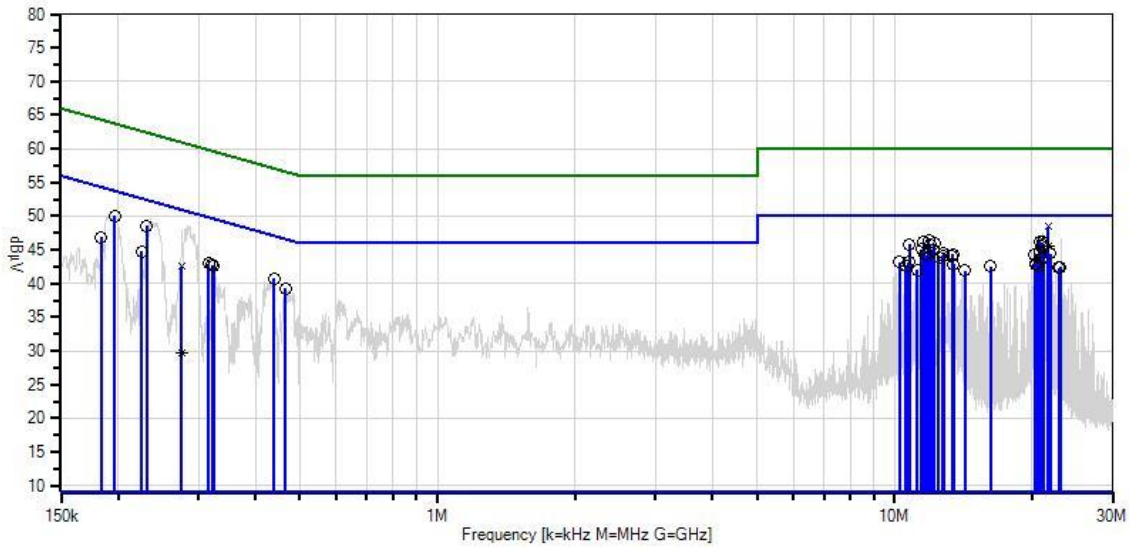
Test Lead: Black

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	11.896M	36.1	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	46.4	50.0	-3.6	Black
2	230.719k	38.6	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	48.6	52.4	-3.8	Black
3	196.540k	40.0	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	50.0	53.8	-3.8	Black
4	20.806M	35.1	+9.7 +0.2	+0.4	+0.1	+0.7	+0.0	46.2	50.0	-3.8	Black
5	21.112M	35.0	+9.7 +0.2	+0.4	+0.1	+0.7	+0.0	46.1	50.0	-3.9	Black
6	11.589M	35.8	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	46.1	50.0	-3.9	Black
7	12.202M	35.6	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	45.9	50.0	-4.1	Black
8	11.959M	35.5	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	45.8	50.0	-4.2	Black
9	10.797M	35.5	+9.7 +0.0	+0.3	+0.1	+0.2	+0.0	45.8	50.0	-4.2	Black
10	21.175M	34.5	+9.7 +0.2	+0.4	+0.1	+0.8	+0.0	45.7	50.0	-4.3	Black
11	21.663M Ave	34.4	+9.7 +0.2	+0.4	+0.1	+0.8	+0.0	45.6	50.0	-4.4	Black
12	20.995M	34.4	+9.7 +0.2	+0.4	+0.1	+0.7	+0.0	45.5	50.0	-4.5	Black
13	11.463M	34.8	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	45.1	50.0	-4.9	Black
14	12.139M	34.7	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	45.0	50.0	-5.0	Black
15	20.869M	33.6	+9.7 +0.2	+0.4	+0.1	+0.7	+0.0	44.7	50.0	-5.3	Black

16	12.806M	34.2	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	44.5	50.0	-5.5	Black
17	21.905M	33.2	+9.7 +0.2	+0.4	+0.1	+0.8	+0.0	44.4	50.0	-5.6	Black
18	13.418M	34.0	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	44.3	50.0	-5.7	Black
19	20.256M	33.2	+9.7 +0.2	+0.4	+0.1	+0.7	+0.0	44.3	50.0	-5.7	Black
20	11.643M	33.9	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	44.2	50.0	-5.8	Black
21	11.706M	33.9	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	44.2	50.0	-5.8	Black
22	12.752M	33.8	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	44.1	50.0	-5.9	Black
23	13.355M	33.7	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	44.0	50.0	-6.0	Black
24	12.499M	33.6	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	43.9	50.0	-6.1	Black
25	438.700k	31.0	+9.6 +0.0	+0.1	+0.0	+0.1	+0.0	40.8	47.1	-6.3	Black
26	20.932M	32.5	+9.7 +0.2	+0.4	+0.1	+0.7	+0.0	43.6	50.0	-6.4	Black
27	315.802k	33.0	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	43.0	49.8	-6.8	Black
28	10.247M	32.8	+9.7 +0.0	+0.3	+0.1	+0.3	+0.0	43.2	50.0	-6.8	Black
29	10.734M	32.9	+9.7 +0.0	+0.3	+0.1	+0.2	+0.0	43.2	50.0	-6.8	Black
30	320.892k	32.8	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	42.8	49.7	-6.9	Black
31	20.382M	32.0	+9.7 +0.2	+0.4	+0.1	+0.7	+0.0	43.1	50.0	-6.9	Black
32	323.074k	32.7	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	42.6	49.6	-7.0	Black
33	13.481M	32.6	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	42.9	50.0	-7.1	Black
34	20.319M	31.8	+9.7 +0.2	+0.4	+0.1	+0.7	+0.0	42.9	50.0	-7.1	Black
35	465.606k	29.4	+9.6 +0.1	+0.1	+0.0	+0.1	+0.0	39.3	46.6	-7.3	Black
36	10.607M	32.4	+9.7 +0.0	+0.3	+0.1	+0.2	+0.0	42.7	50.0	-7.3	Black
37	20.688M	31.6	+9.7 +0.2	+0.4	+0.1	+0.7	+0.0	42.7	50.0	-7.3	Black
38	183.450k	36.9	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	46.9	54.3	-7.4	Black
39	16.229M	32.1	+9.7 +0.1	+0.3	+0.1	+0.2	+0.0	42.5	50.0	-7.5	Black
40	23.067M	31.4	+9.7 +0.2	+0.4	+0.1	+0.6	+0.0	42.4	50.0	-7.6	Black
41	22.887M	31.2	+9.7 +0.2	+0.4	+0.1	+0.7	+0.0	42.3	50.0	-7.7	Black

42	225.628k	34.8	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	44.8	52.6	-7.8	Black
43	11.220M	31.6	+9.7 +0.1	+0.3	+0.1	+0.2	+0.0	42.0	50.0	-8.0	Black
44	14.274M	31.6	+9.6 +0.1	+0.3	+0.1	+0.2	+0.0	41.9	50.0	-8.1	Black
45	21.663M	37.2	+9.7 +0.2	+0.4	+0.1	+0.8	+0.0	48.4	60.0	-11.6	Black
^	21.663M	38.1	+9.7 +0.2	+0.4	+0.1	+0.8	+0.0	49.3	50.0	-0.7	Black
^	21.663M	37.3	+9.7 +0.2	+0.4	+0.1	+0.8	+0.0	48.5	50.0	-1.5	Black
48	275.409k	32.6	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	42.6	61.0	-18.4	Black
49	275.409k	19.7	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	29.7	51.0	-21.3	Black
^	275.409k	38.7	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	48.7	51.0	-2.3	Black
^	275.409k	36.6	+9.6 +0.2	+0.1	+0.0	+0.1	+0.0	46.6	51.0	-4.4	Black

CKC Laboratories, Inc Date: 6/20/2013 Time: 20:21:34 Digital Path WO#: 94341
 Test Lead: Black 120V 60Hz Sequence#: 79



— Sweep Data
 ○ Peak Readings
 * Average Readings
 — 1 - 15.207 AC Mains - Average
 — Readings
 × QP Readings
 ▼ Ambient
 — 2 - 15.207 AC Mains - Quasi-peak

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.207 AC Mains - Average**
 Work Order #: **94341**
 Test Type: **Conducted Emissions**
 Equipment: **GEN6 CPE**
 Manufacturer: Digital Path
 Model: 2x
 S/N: 004

Date: 6/20/2013
 Time: 20:30:35
 Sequence#: 80
 Tested By: Hieu Song Nguyenpham
 120V 60Hz

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP01211	Attenuator	PE7002-10	4/2/2013	4/2/2015
T2	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T3	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	AN00493	50uH LISN-L1 (L) Loss W/O European Adapter	3816/NM	3/4/2013	3/4/2015
T4	AN00493	50uH LISN-L(2) N Loss W/O European Adapter	3816/NM	3/4/2013	3/4/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T5	ANP05258	High Pass Filter	HE9615-150K- 50-720B	12/6/2012	12/6/2014

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Emission
 Frequency Range: 150kHz to 30MHz
 Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

The EUT installed on a metal pole as intended. DC power port is connected to a DC power supply via a CAT5 cable. The Ethernet port is connected to a remote laptop which is outside of the chamber.
 The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is active.
 Vertical polarity of the antenna is connected to Chain 1.
 Horizontal polarity of the antenna is connected to Chain 0.

Note: Adding one ferrite (Steward 28A 2024-0A0) with one pass through on RJ45 Data cables.

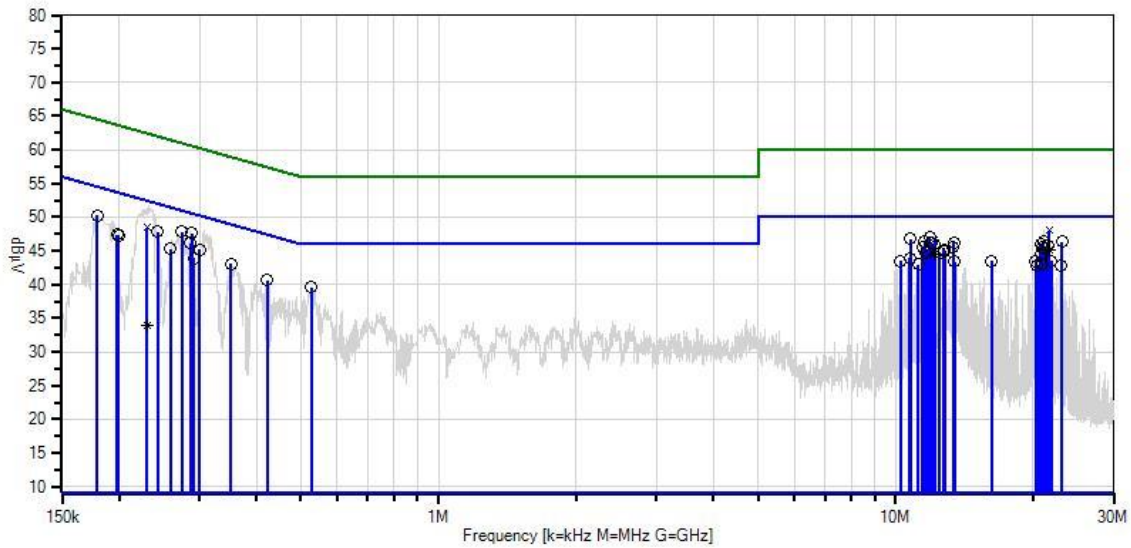
Ext Attn: 0 dB

Measurement Data:		Reading listed by margin.						Test Lead: White				
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar	
	MHz	dB μ V	T5	dB	dB	dB	Table	dB μ V	dB μ V	dB	Ant	
1	11.896M	36.3	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	47.1	50.0	-2.9	White	
2	288.168k	37.1	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	47.6	50.6	-3.0	White	
3	10.797M	36.0	+9.7 +0.0	+0.3	+0.1	+0.7	+0.0	46.8	50.0	-3.2	White	
4	274.351k	37.3	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	47.8	51.0	-3.2	White	
5	21.112M	35.0	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	46.5	50.0	-3.5	White	
6	23.130M	34.7	+9.7 +0.2	+0.4	+0.1	+1.2	+0.0	46.3	50.0	-3.7	White	
7	11.589M	35.5	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	46.3	50.0	-3.7	White	
8	11.959M	35.4	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	46.2	50.0	-3.8	White	
9	13.418M	35.4	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	46.2	50.0	-3.8	White	
10	20.806M	34.5	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	46.0	50.0	-4.0	White	
11	12.139M	35.2	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	46.0	50.0	-4.0	White	
12	179.087k	39.7	+9.6 +0.3	+0.1	+0.0	+0.6	+0.0	50.3	54.5	-4.2	White	
13	243.081k	37.3	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	47.8	52.0	-4.2	White	
14	21.571M	34.2	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	45.7	50.0	-4.3	White	
15	13.355M	34.8	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	45.6	50.0	-4.4	White	
16	11.463M	34.8	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	45.6	50.0	-4.4	White	
17	286.714k	35.6	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	46.1	50.6	-4.5	White	
18	20.995M	34.0	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	45.5	50.0	-4.5	White	
19	21.175M	33.9	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	45.4	50.0	-4.6	White	
20	12.752M	34.4	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	45.2	50.0	-4.8	White	
21	21.663M	33.7	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	45.2	50.0	-4.8	White	
22	Ave 299.803k	34.7	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	45.2	50.2	-5.0	White	
23	11.706M	34.1	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	44.9	50.0	-5.1	White	

24	12.806M	34.1	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	44.9	50.0	-5.1	White
25	11.652M	33.9	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	44.7	50.0	-5.3	White
26	12.499M	33.9	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	44.7	50.0	-5.3	White
27	12.198M Ave	33.7	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	44.5	50.0	-5.5	White
28	20.869M	32.9	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	44.4	50.0	-5.6	White
29	351.435k	32.7	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	43.1	48.9	-5.8	White
30	10.734M	33.1	+9.7 +0.0	+0.3	+0.1	+0.7	+0.0	43.9	50.0	-6.1	White
31	259.080k	34.8	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	45.3	51.5	-6.2	White
32	197.995k	36.9	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	47.4	53.7	-6.3	White
33	199.449k	36.8	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	47.3	53.6	-6.3	White
34	526.692k	29.2	+9.6 +0.1	+0.1	+0.0	+0.6	+0.0	39.6	46.0	-6.4	White
35	10.247M	32.6	+9.7 +0.0	+0.3	+0.1	+0.8	+0.0	43.5	50.0	-6.5	White
36	16.229M	32.6	+9.7 +0.1	+0.3	+0.1	+0.7	+0.0	43.5	50.0	-6.5	White
37	21.905M	32.0	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	43.5	50.0	-6.5	White
38	20.256M	32.0	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	43.5	50.0	-6.5	White
39	291.804k	33.4	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	43.9	50.5	-6.6	White
40	13.481M	32.6	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	43.4	50.0	-6.6	White
41	421.247k	30.3	+9.6 +0.0	+0.1	+0.0	+0.6	+0.0	40.6	47.4	-6.8	White
42	11.220M	32.1	+9.7 +0.1	+0.3	+0.1	+0.7	+0.0	43.0	50.0	-7.0	White
43	20.932M	31.5	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	43.0	50.0	-7.0	White
44	23.067M	31.3	+9.7 +0.2	+0.4	+0.1	+1.2	+0.0	42.9	50.0	-7.1	White
45	20.382M	31.4	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	42.9	50.0	-7.1	White
46	21.663M QP	36.5	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	48.0	60.0	-12.0	White
^	21.663M	37.6	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	49.1	50.0	-0.9	White
^	21.663M	36.6	+9.7 +0.2	+0.4	+0.1	+1.1	+0.0	48.1	50.0	-1.9	White
49	12.198M QP	35.7	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	46.5	60.0	-13.5	White

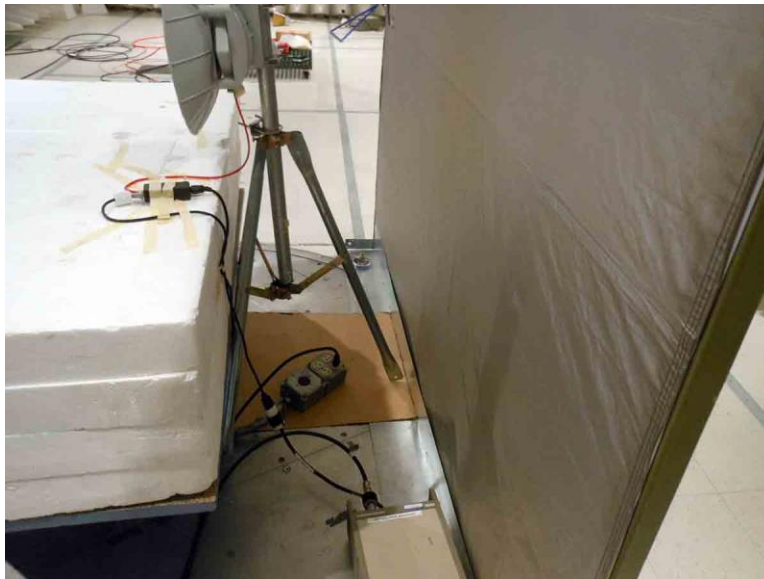
^	12.198M	37.0	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	47.8	50.0	-2.2	White
^	12.198M	36.3	+9.6 +0.1	+0.3	+0.1	+0.7	+0.0	47.1	50.0	-2.9	White
52	230.139k QP	38.0	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	48.5	62.4	-13.9	White
53	230.139k Ave	23.5	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	34.0	52.4	-18.4	White
^	230.139k	41.3	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	51.8	52.4	-0.6	White
^	230.139k	41.3	+9.6 +0.2	+0.1	+0.0	+0.6	+0.0	51.8	52.4	-0.6	White

CKC Laboratories, Inc Date: 6/20/2013 Time: 20:30:35 Digital Path WO#: 94341
 Test Lead: White 120V 60Hz Sequence#: 80



- Sweep Data
- Peak Readings
- * Average Readings
- 1 - 15.207 AC Mains - Average
- Readings
- × QP Readings
- ▼ Ambient
- 2 - 15.207 AC Mains - Quasi-peak

Test Setup Photos



-6dBc & RSS 210 99% Occupied Bandwidth

Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **OBW**
 Work Order #: **94341**
 Test Type: **Conducted**
 Equipment: **GEN6 CPE**
 Manufacturer: Digital Path
 Model: 2x
 S/N: 004

Date: 6/19/2013
 Time: 6:13:43 PM
 Sequence#: 1
 Tested By: Hieu Song Nguyenpham

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
	ANP06125	Cable	32022-29094K- 29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

Cable loss = 1.56dB
 Attenuator=9.4dB

The EUT is on the table and connected to the Spectrum Analyzer.

Test Data

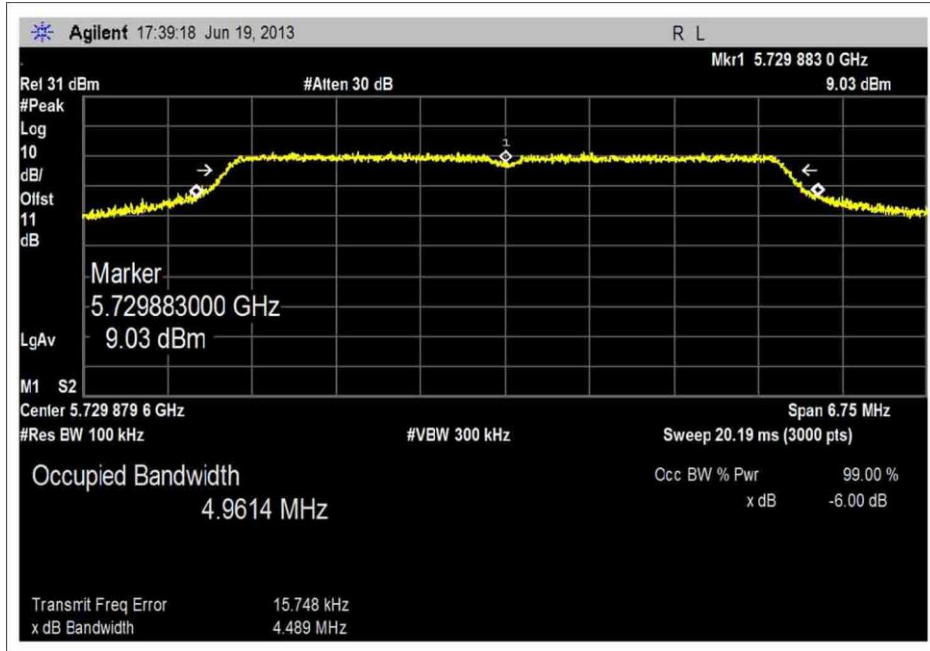
FCC 15.247(a)(2) – 6dB Bandwidth Measurements – for 5MHz System Channel Width

	Chain 0 – 6dB Bandwidth (MHz)	Chain 1 – 6dB Bandwidth (MHz)
Channel	802.11n	802.11n
LO - 5730	4.489	4.438
MID – 5785	4.468	4.491
HI – 5845	4.487	4.438

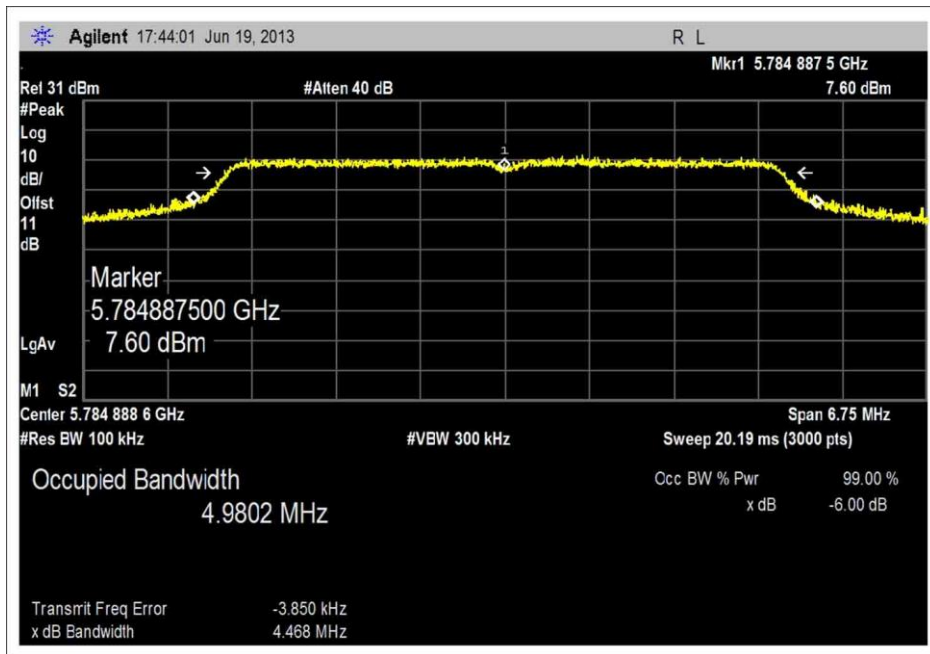
The Emissions Bandwidth measurements were made using the automatic bandwidth capability of the spectrum analyzer using the settings set out in KDB “558704 D01 DTS Meas Guidance v03r01”, Section 8.1. The units are dBm. Worst Case 802.11n data rate is MCS2= 19.5 Mbps

- LO = LO Channel
- MID = MID Channel
- HI = HI Channel
- n = 802.11n
- 5MHz = System 5MHz Channel Width
- 10MHz = System 10MHz Channel Width

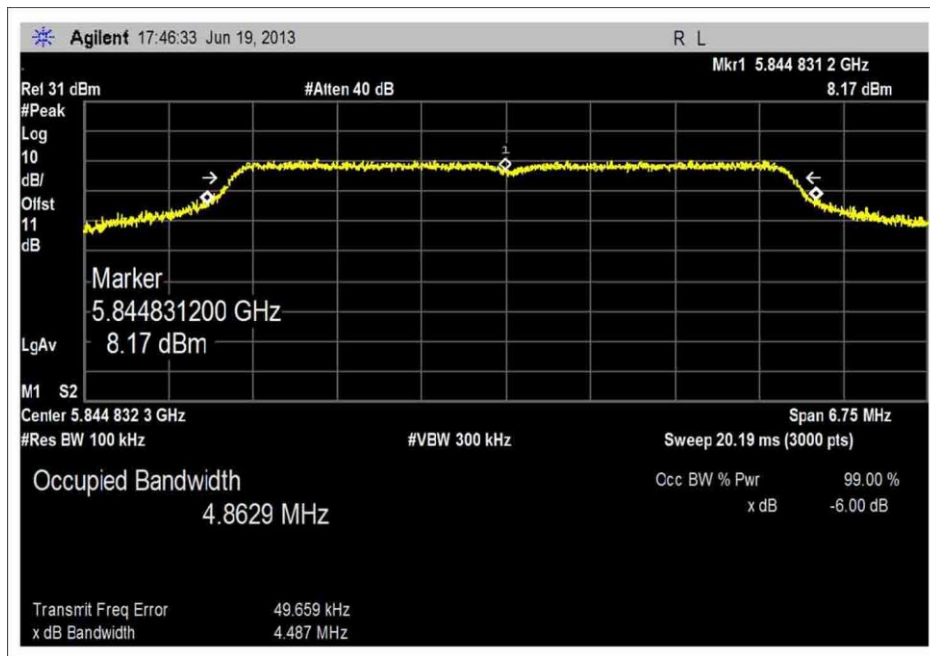
Chain 0 5MHz
Test Plots



Low Channel 19.5Mbps

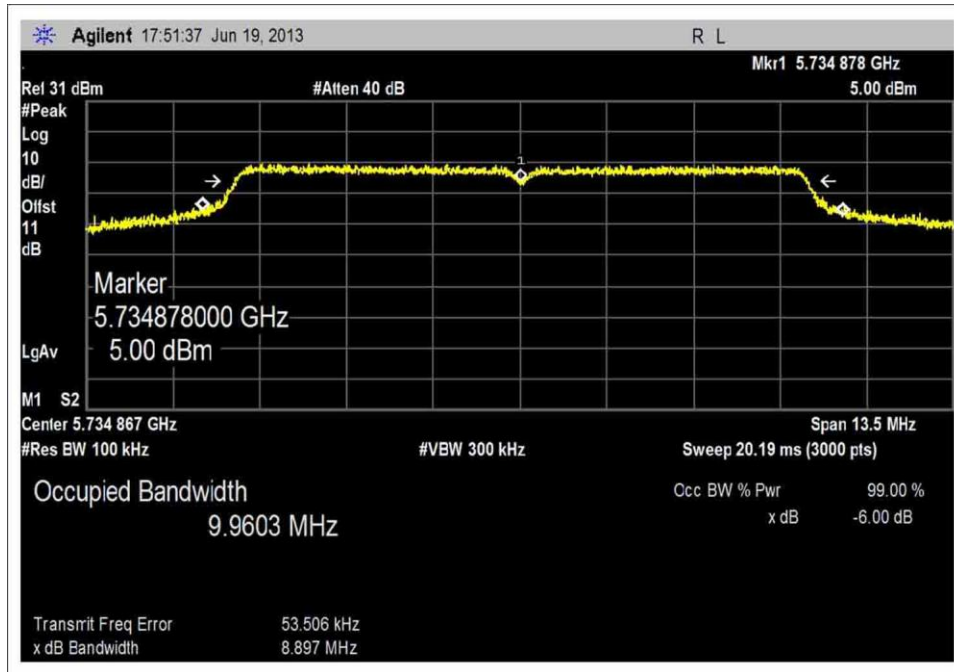


Mid Channel 19.5Mbps

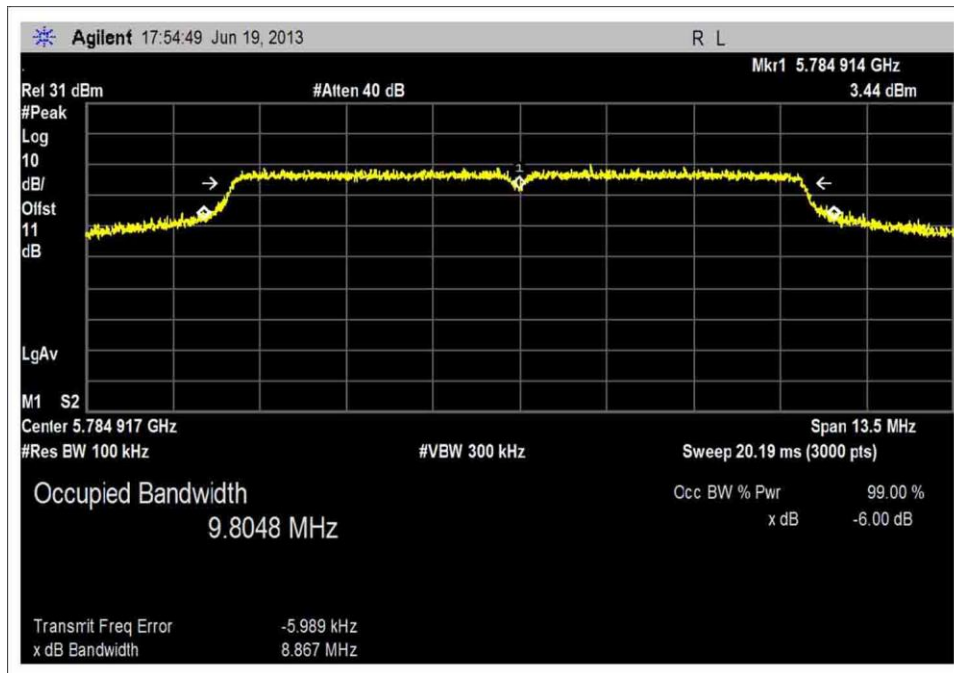


High Channel 19.5Mbps

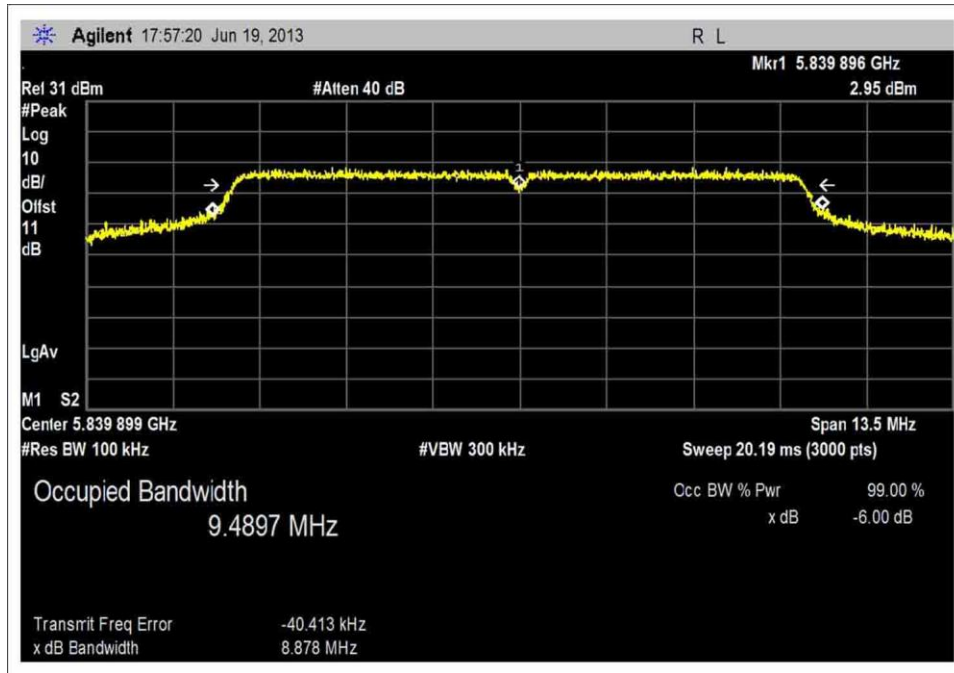
Chain 0 10MHz
Test Plots



Low Channel 13Mbps

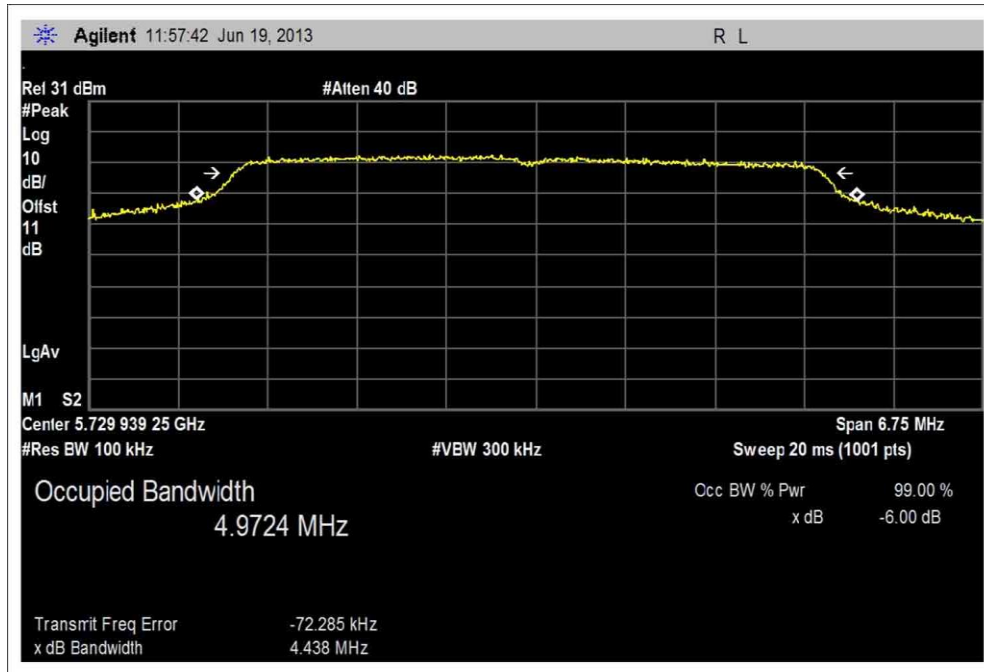


Mid Channel 13Mbps

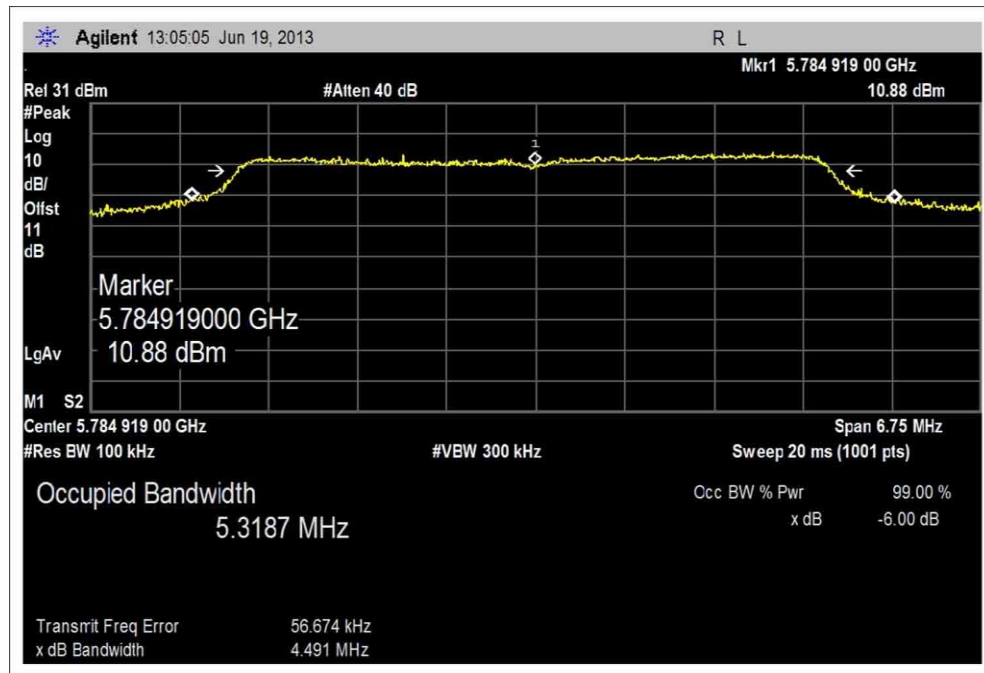


High Channel 13Mbps

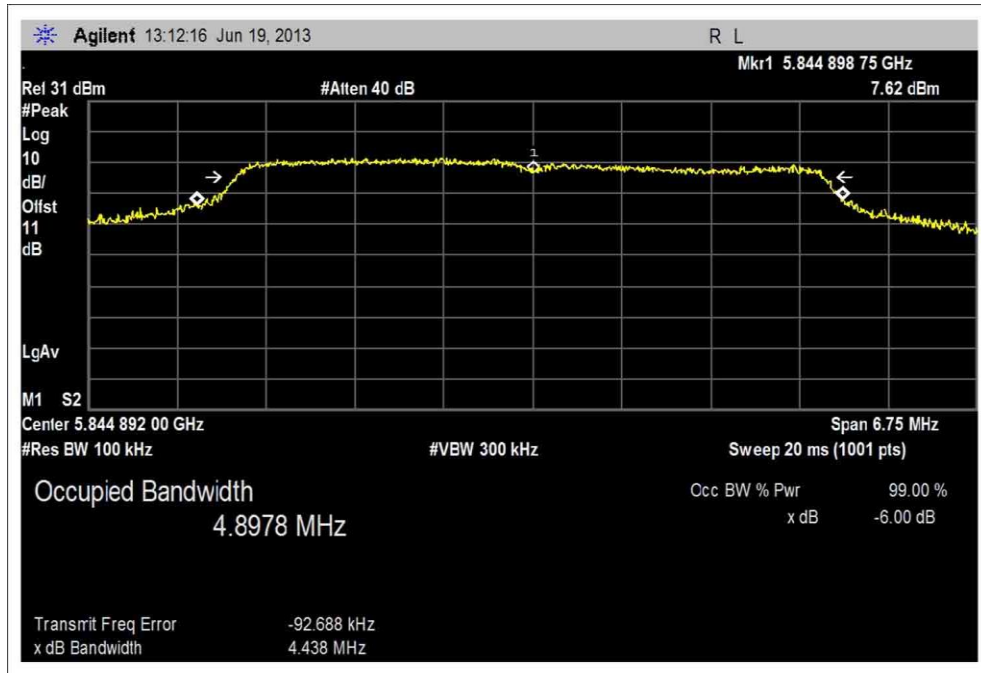
Chain 1 - 5MHz
Test Plots



Low Channel

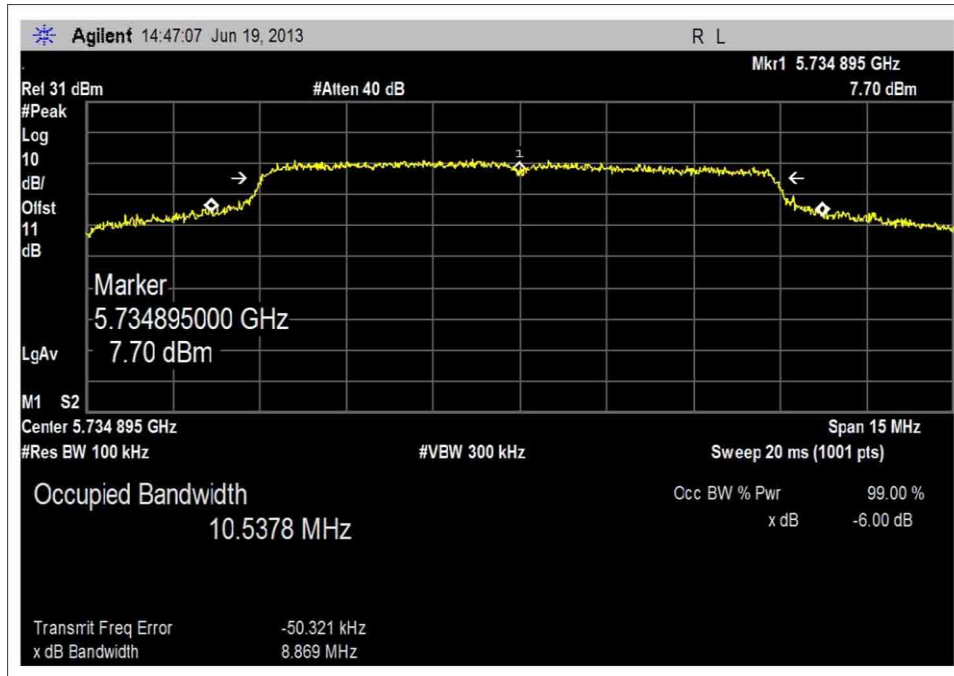


Mid Channel

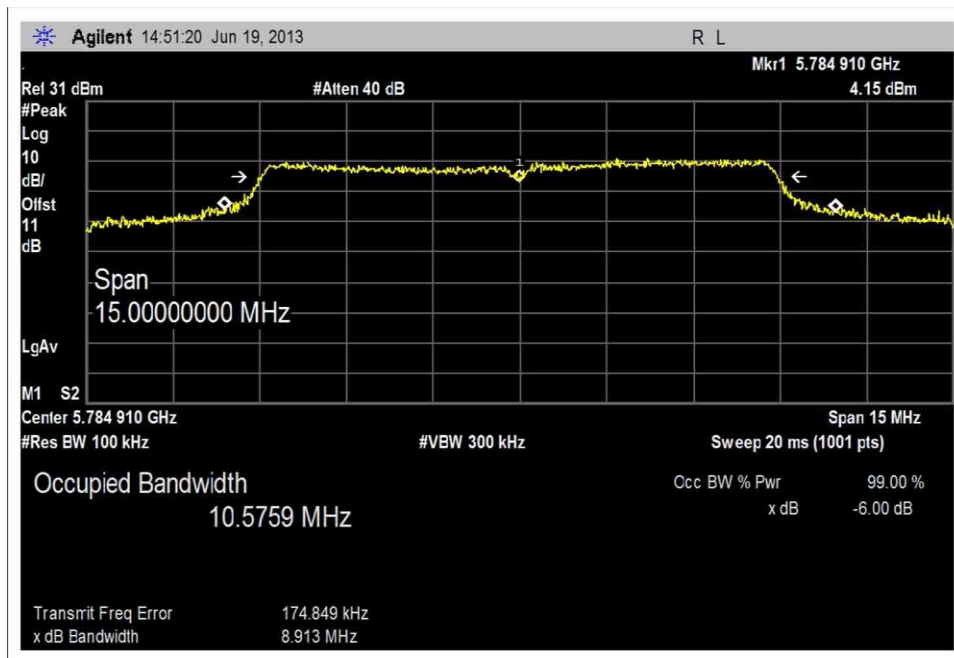


High Channel

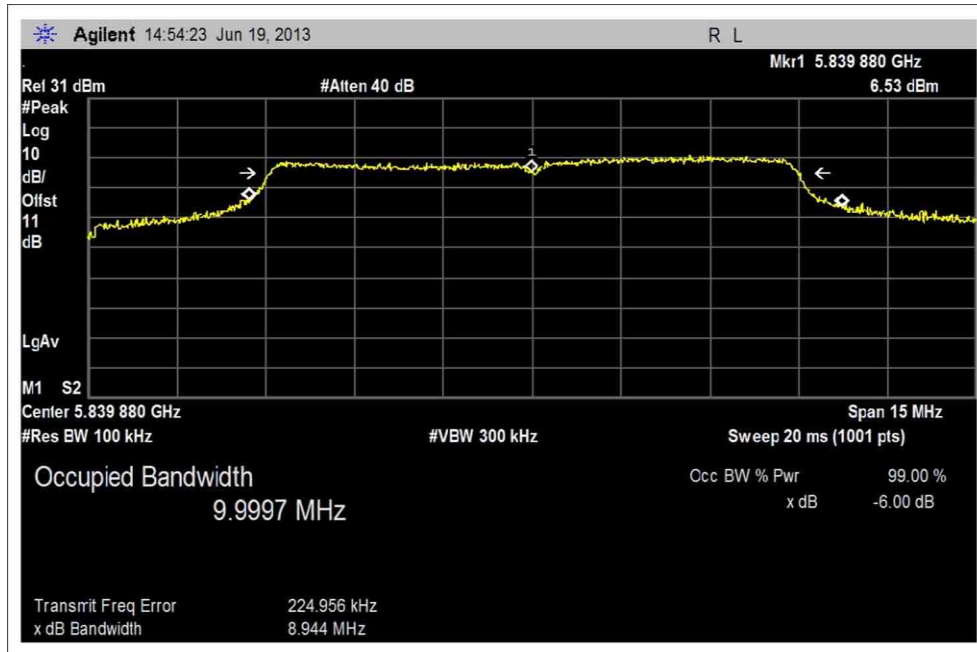
Chain 1 - 10MHz
Test Plots



Low Channel

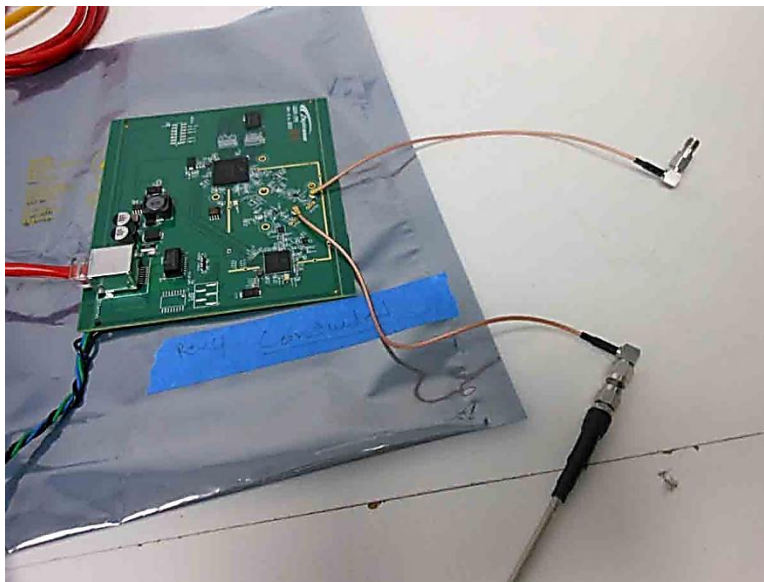
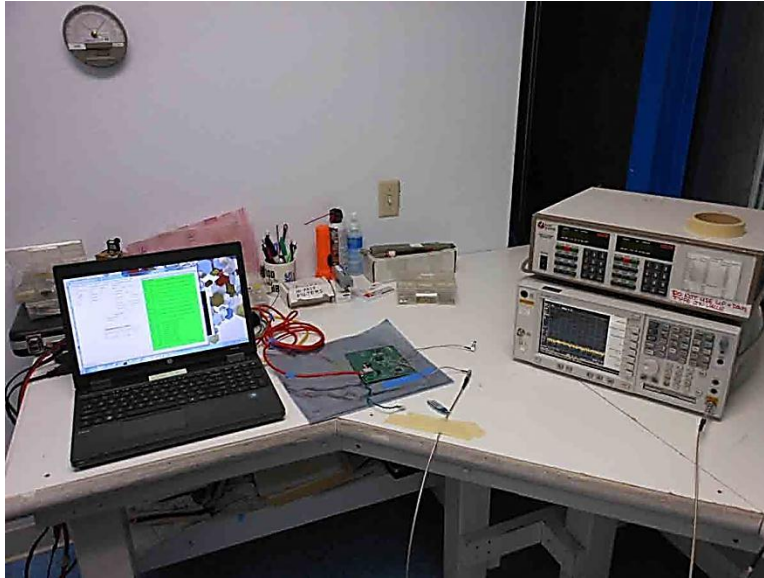


Mid Channel



High Channel

Test Setup Photos



15.247 RF Power Output

Test Conditions / Setup

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**

Specification: **Power RF output setup**

Work Order #: **94341**

Date: 6/19/2013

Test Type: **Conducted**

Time: 6:13:43 PM

Equipment: **GEN6 CPE**

Sequence#: 1

Manufacturer: Digital Path

Tested By: Hieu Song Nguyenpham

Model: 2x

S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
	ANP06125	Cable	32022-29094K- 29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Measure RF output power
 Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

Cable loss = 1.56dB
 Attenuator=9.4dB

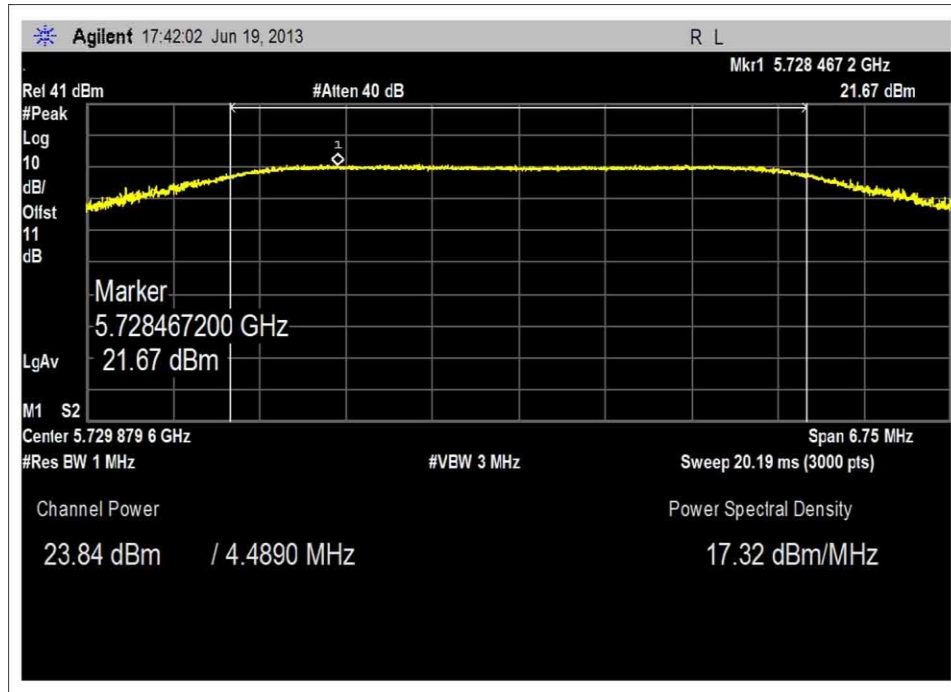
The EUT is on the table and connected to the Spectrum Analyzer.

Power Measurements: 5MHz, 802.11n, 15.247			
Rate	Channel	Chain 0	Chain 1
19.5Mbps	LO	23.84	25.21
	MID	23.94	25.50
	HI	23.11	24.65
Power Measurements: 10MHz, 802.11n, 15.247			
Rate	Channel	Chain 0	Chain 1
13.0Mbps	LO	24.61	25.92
	MID	24.40	25.69
	HI	23.77	25.03

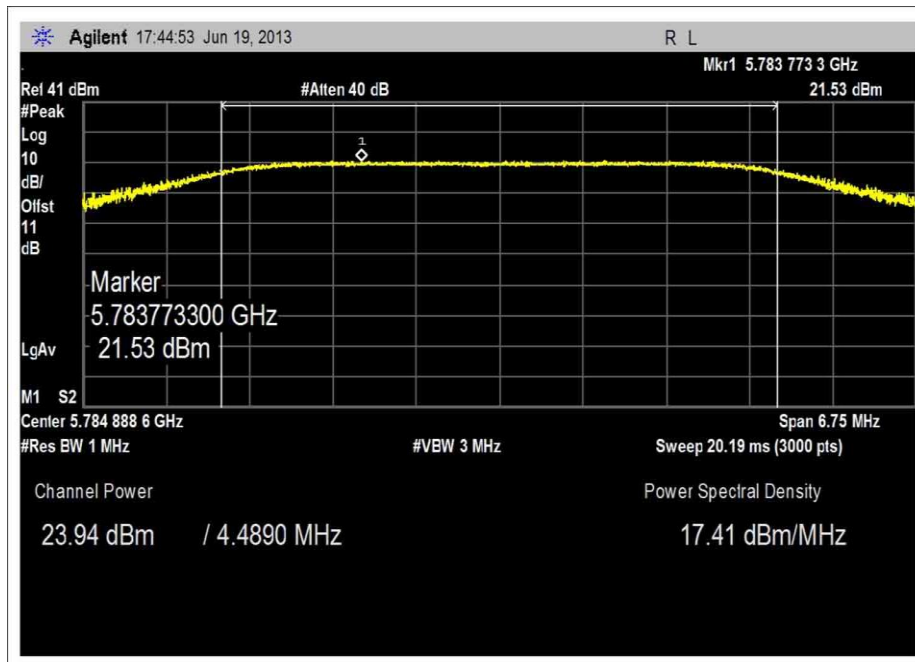
The Emissions Bandwidth measurements were made using the automatic bandwidth capability of the spectrum analyzer using settings set out in KDB “558704 D01 DTS Meas Guidance v03r01”, Section 9.1 Maximum peak conducted output power. The offset of the analyzer was set to correct for the cable and attenuator used during measurement. The units are in dBm. The limit is 1 Watt or 30dBm.

LO = LO Channel
 MID = MID Channel
 HI = HI Channel
 n = 802.11n
 5MHz = System 5MHz Channel Width
 10MHz = System 10MHz Channel Width

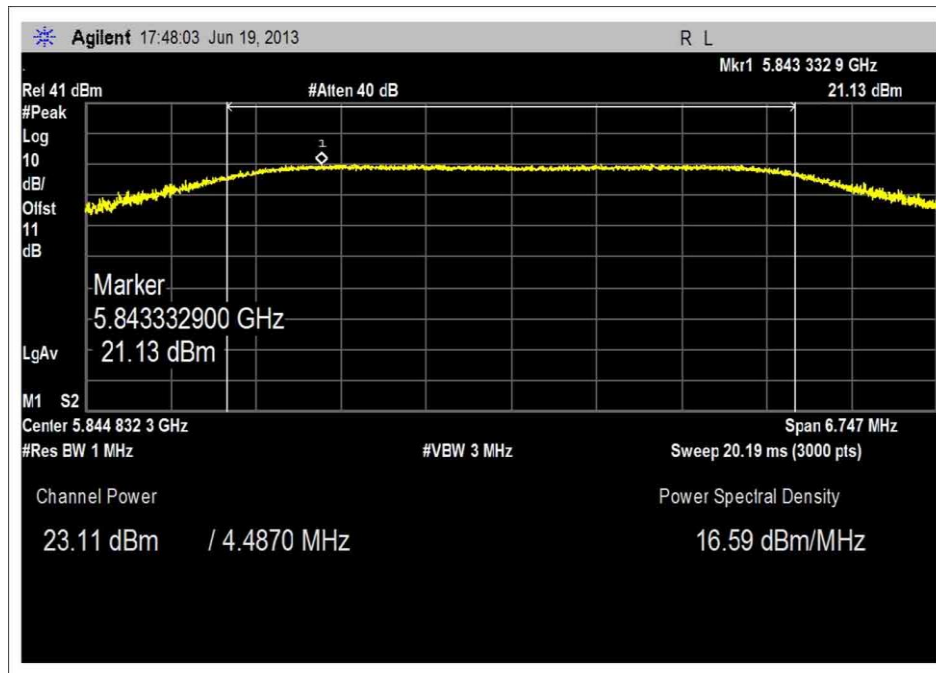
Chain 0- 5MHz
Test Plots



Low Channel 19.5Mbps-

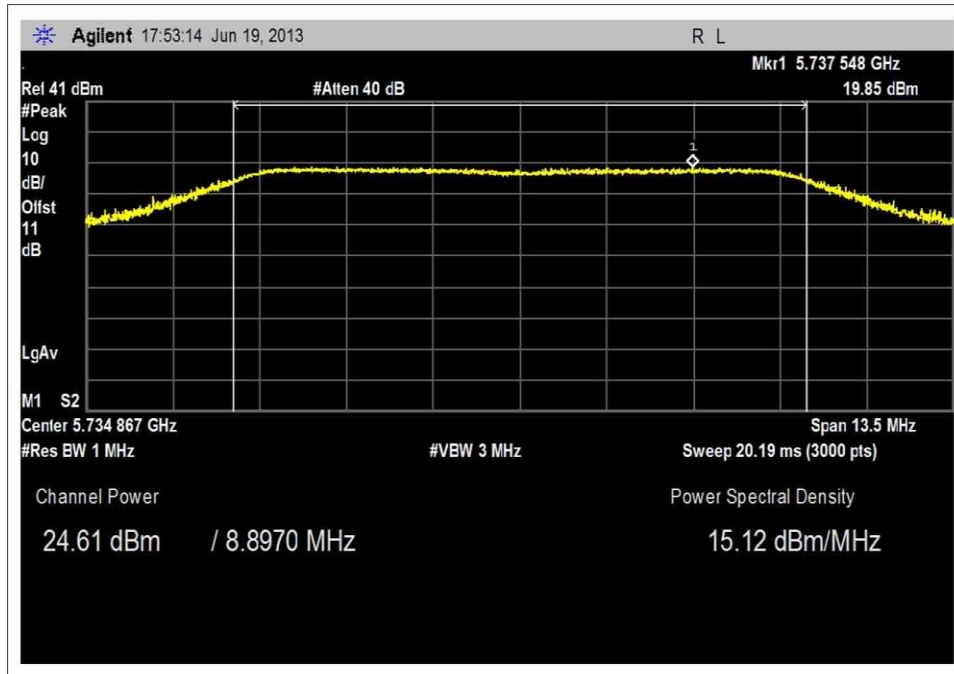


Mid Channel 19.5Mbps-

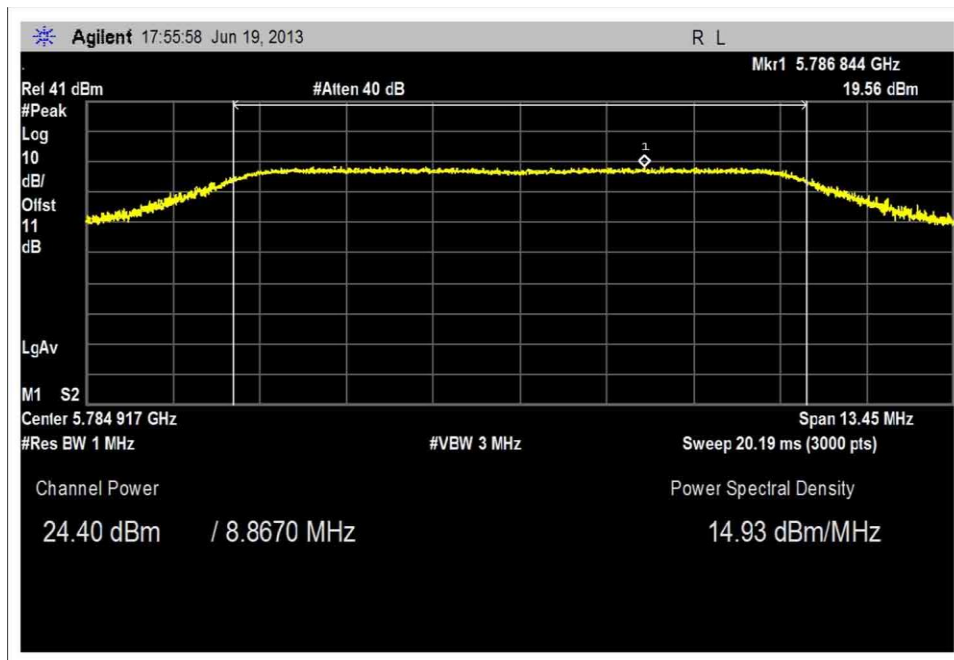


High Channel 19.5Mbps-

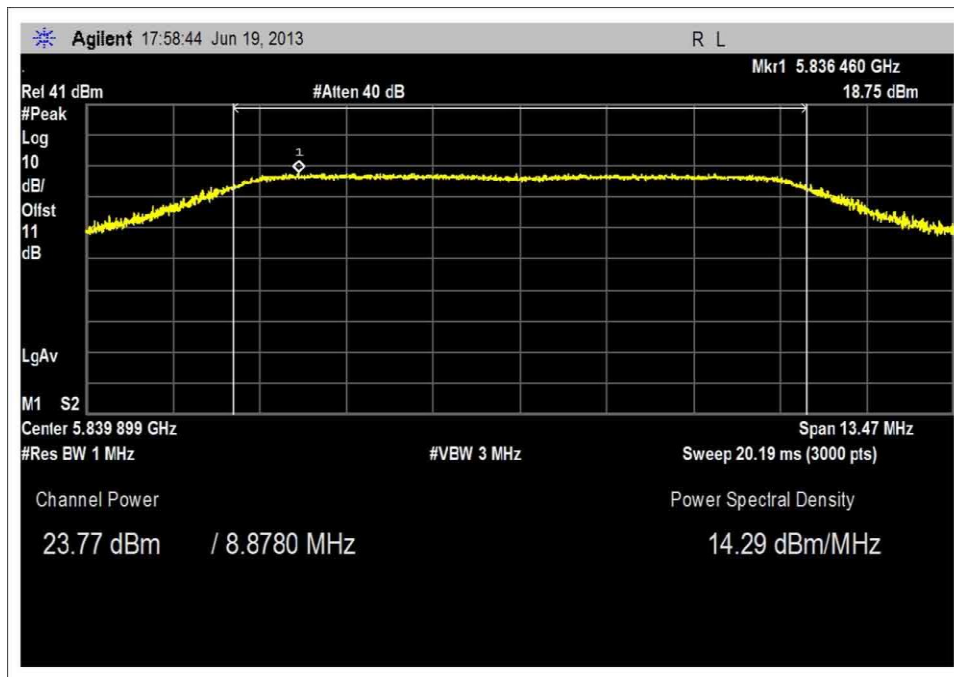
Chain 0 - 10MHz
Test Plots



Low Channel 13Mbps

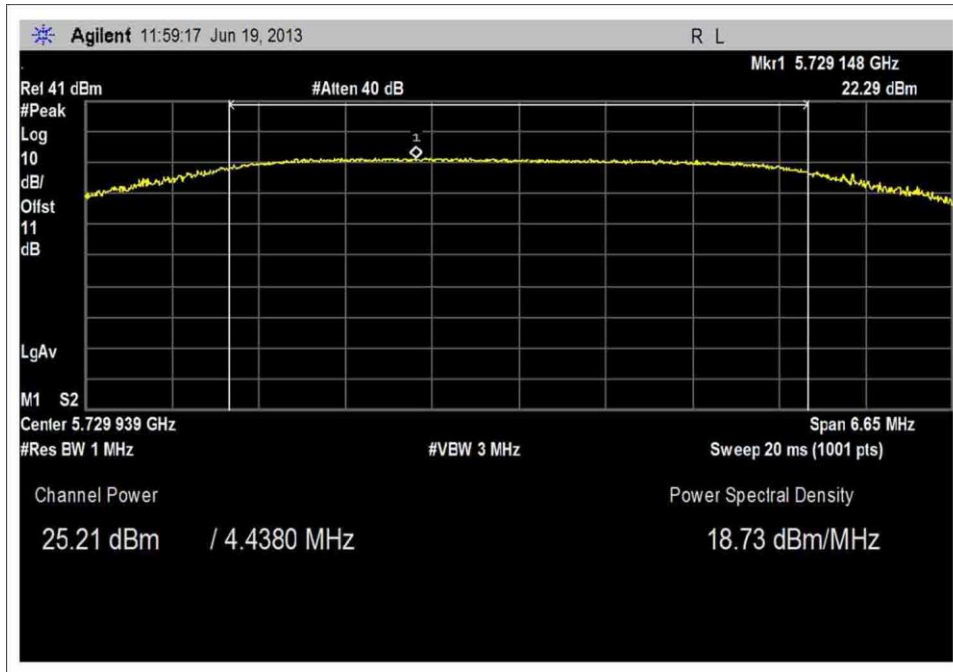


Mid Channel 13Mbps

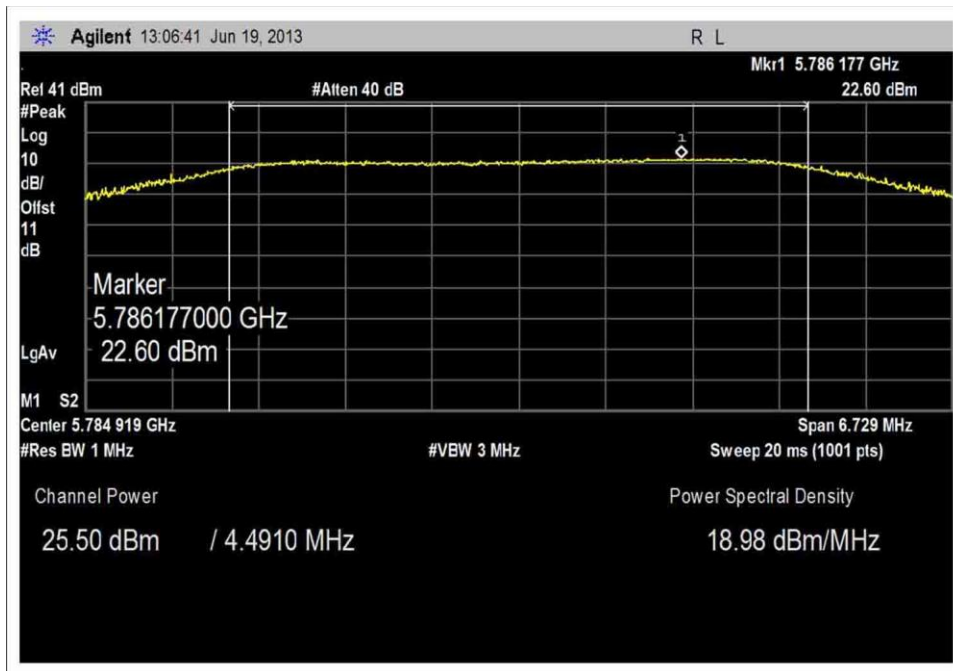


High Channel 13Mbps

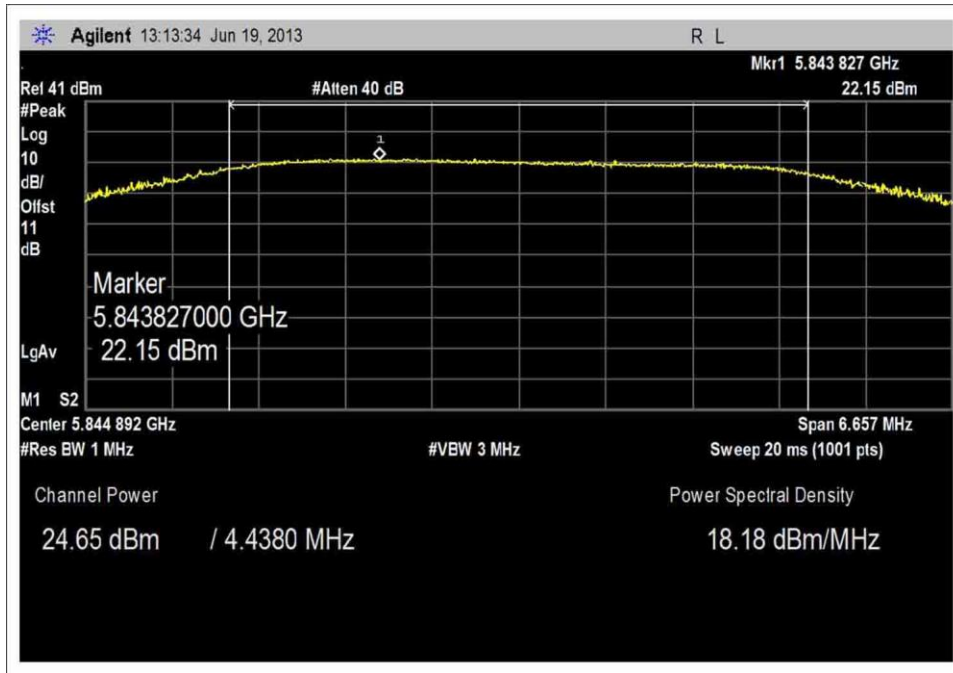
Chain 1 - 5MHz
Test Plots



Low Channel

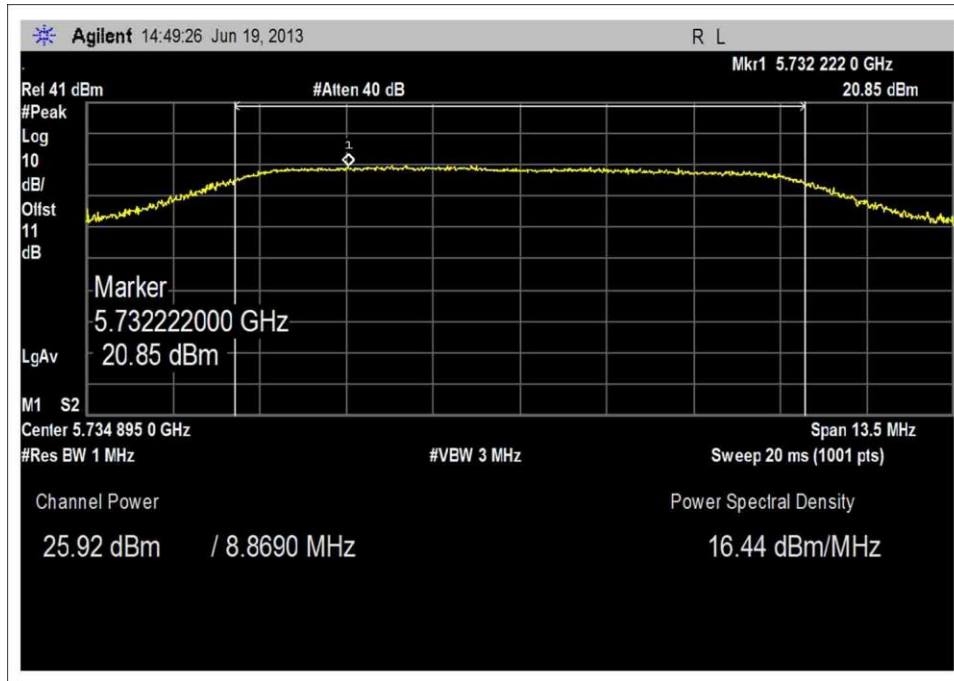


Mid Channel

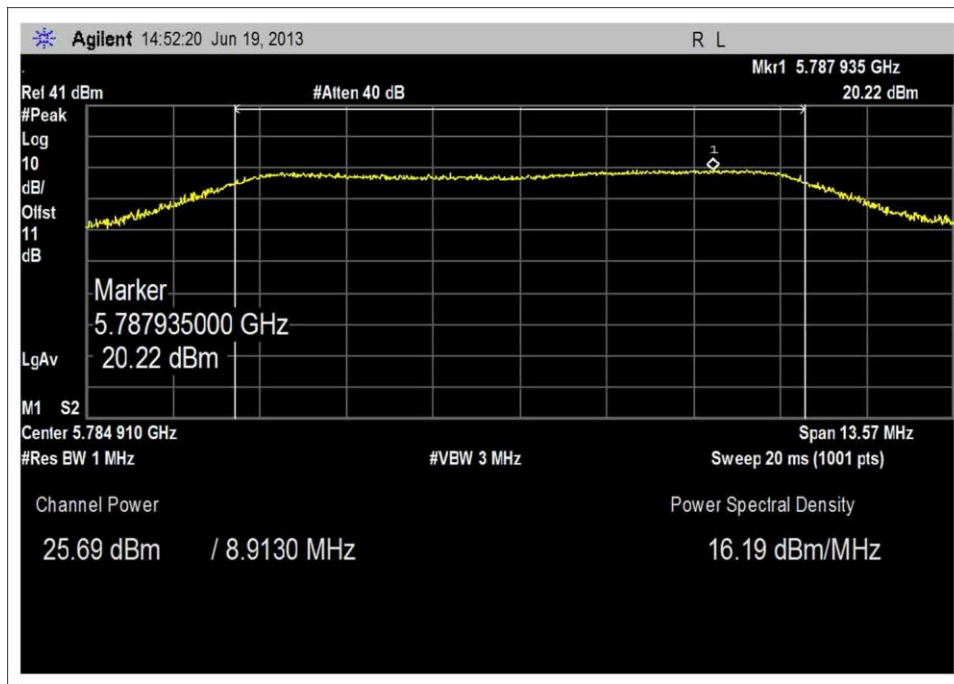


High Channel

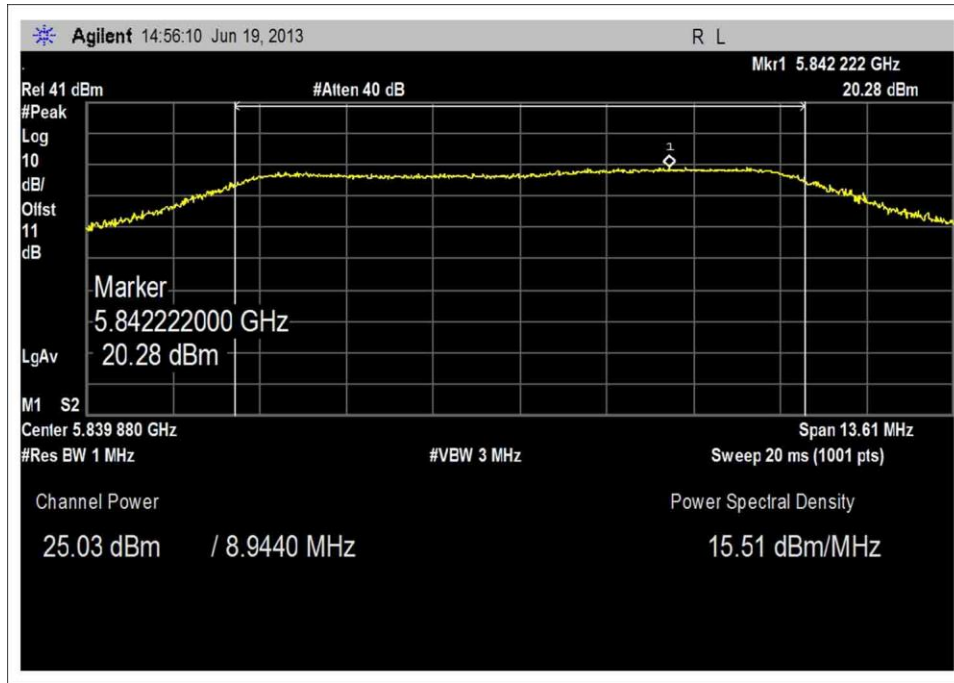
Chain 1 - 10MHz
Test Data



Low Channel

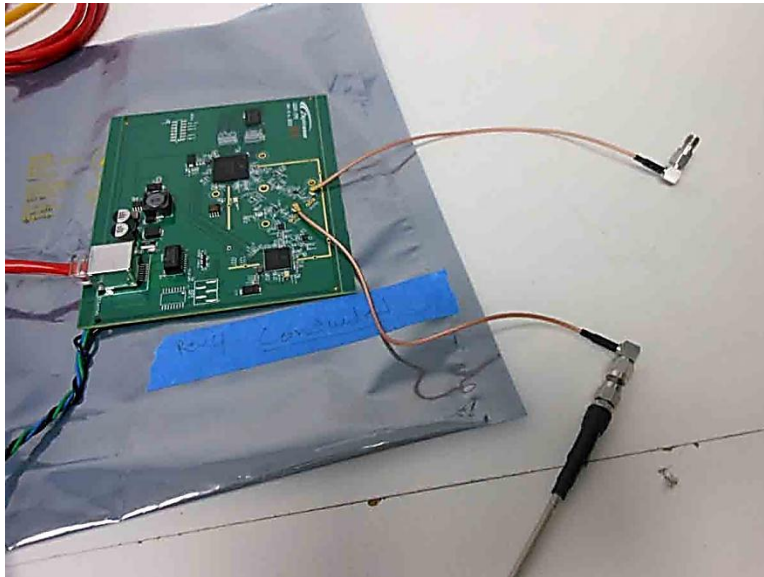
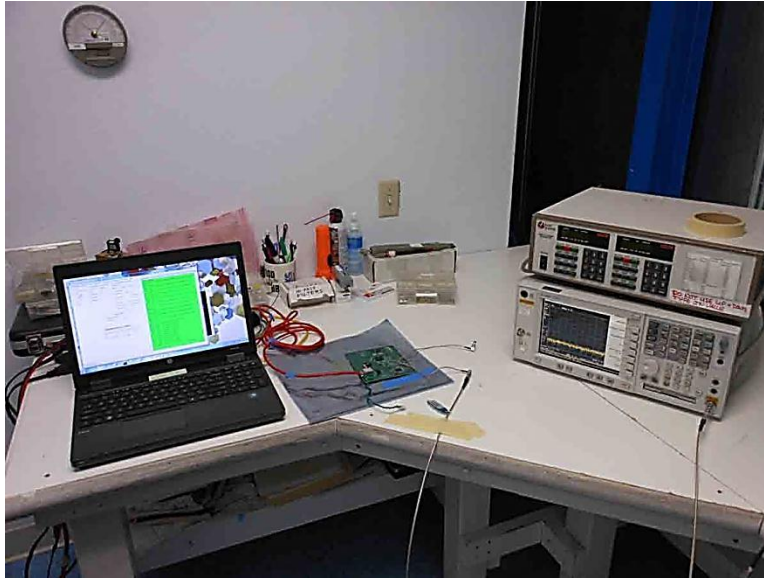


Mid Channel



High Channel

Test Setup Photos



15.247(d) Conducted Spurious Emissions

Test Data

Seq. #	Frequency Range Tested / Test conditions
	Chain 0 - 5MHz
34	9kHz-1GHz Low Channel / No Emissions Found
33	9kHz-1GHz Mid Channel / No Emissions Found
32	9kHz-1GHz High Channel / No Emissions Found
12	1-10GHz Low Channel
10	1-10GHz Mid Channel
8	1-10GHz High Channel
13	10-40GHz Low Channel
11	10-40GHz Mid Channel
9	10-40GHz High Channel
	Chain 0 - 10MHz
35	9kHz-1GHz Low Channel / No Emissions Found
36	9kHz-1GHz Mid Channel / No Emissions Found
37	9kHz-1GHz High Channel / No Emissions Found
2	1-10GHz Low Channel
4	1-10GHz Mid Channel
6	1-10GHz High Channel
3	10-40GHz Low Channel
5	10-40GHz Mid Channel
7	10-40GHz High Channel

Seq. #	Frequency Range Tested / Test conditions
	Chain 1 - 5MHz
29	9kHz-1GHz Low Channel / No Emissions Found
30	9kHz-1GHz Mid Channel / No Emissions Found
31	9kHz-1GHz High Channel / No Emissions Found
14	1-10GHz Low Channel
16	1-10GHz Mid Channel
18	1-10GHz High Channel
15	10-40GHz Low Channel
17	10-40GHz Mid Channel
19	10-40GHz High Channel

	Chain 1 – 10MHz
26	9kHz-1GHz Low Channel / No Emissions Found
27	9kHz-1GHz Mid Channel / No Emissions Found
28	9kHz-1GHz High Channel / No Emissions Found
24	1-10GHz Low Channel
22	1-10GHz Mid Channel
20	1-10GHz High Channel
25	10-40GHz Low Channel
23	10-40GHz Mid Channel
21	10-40GHz High Channel

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**

Specification: **15.247(d) Conducted Spurious Emissions**

Work Order #: **94341**

Test Type: **Conducted Emissions**

Equipment: **GEN6 CPE**

Manufacturer: Digital Path

Model: 2x

S/N: 004

Date: 6/20/2013

Time: 1:02:43 PM

Sequence#: 34

Tested By: Hieu Song Nguyenpham

120V 60Hz

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	ANP01211	Attenuator	PE7002-10	4/2/2013	4/2/2015
	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
Frequency Range: 9kHz to 1000MHz

Software Used: art2_ver2_28_6BIN
Temperature: 22.3°C
Humidity: 41 %
Atmospheric Pressure: 101.4 kPa
High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band

Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
2 Chain: Chain 0 and Chain1
RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: Low Channel at Span 5MHz
Data rate =19.5 Mbps

NO EMISSIONS FOUND.

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Conducted Emissions** Time: 11:53:31 AM
 Equipment: **GEN6 CPE** Sequence#: 33
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	ANP01211	Attenuator	PE7002-10	4/2/2013	4/2/2015
	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 9kHz to 1000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: Middle Channel at Span 5MHz
 Data rate =19.5 Mbps
NO EMISSIONS FOUND.

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Conducted Emissions** Time: 11:48:30 AM
 Equipment: **GEN6 CPE** Sequence#: 32
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	ANP01211	Attenuator	PE7002-10	4/2/2013	4/2/2015
	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 9kHz to 1000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: High Channel at Span 5MHz
 Data rate =19.5 Mbps
NO EMISSIONS FOUND.

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Conducted Emissions** Time: 8:54:21 AM
 Equipment: **GEN6 CPE** Sequence#: 12
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 1000MHz to 10000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: Low Channel at Span 5MHz
 Data rate =19.5Mbps

Ext Attn: 0 dB

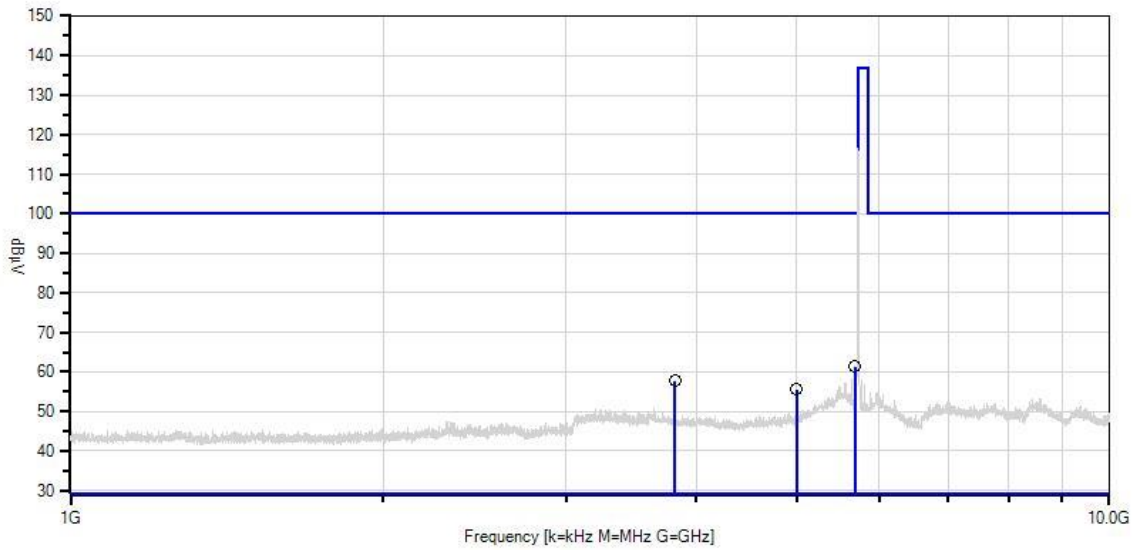
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist dB	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant	
1	5687.654M	50.4	+9.4	+1.6		+0.0	61.4	100.2	-38.8	None
2	3820.133M	47.0	+9.3	+1.4		+0.0	57.7	100.2	-42.5	None
3	5000.201M	44.6	+9.4	+1.6		+0.0	55.6	100.2	-44.6	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 8:54:21 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 12



- Sweep Data
- Peak Readings
- * Average Readings
- 1 - 15.247(d) Conducted Spurious Emissions
- Readings
- × QP Readings
- ▼ Ambient

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Conducted Emissions** Time: 8:41:43 AM
 Equipment: **GEN6 CPE** Sequence#: 10
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 1000MHz to 10000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: Middle Channel at Span 5MHz
 Data rate =19.5Mbps

Ext Attn: 0 dB

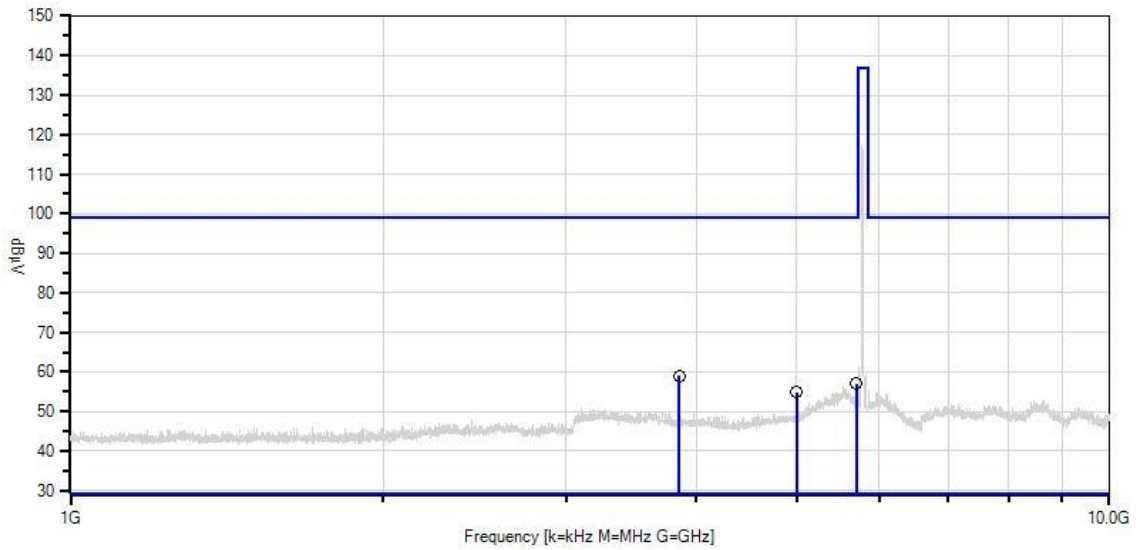
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist dB	Table dB	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant	
1	3856.805M	48.3	+9.3	+1.4			+0.0	59.0	99.2	-40.2	None
2	5706.599M	46.0	+9.4	+1.6			+0.0	57.0	99.2	-42.2	None
3	5000.201M	43.8	+9.4	+1.6			+0.0	54.8	99.2	-44.4	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 8:41:43 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 10



- Sweep Data
- Peak Readings
- * Average Readings
- 1 - 15.247(d) Conducted Spurious Emissions
- Readings
- × QP Readings
- ▼ Ambient

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Conducted Emissions** Time: 8:27:00 AM
 Equipment: **GEN6 CPE** Sequence#: 8
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 1000MHz to 10000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: High Channel at Span 5MHz
 Data rate =19.5Mbps

Ext Attn: 0 dB

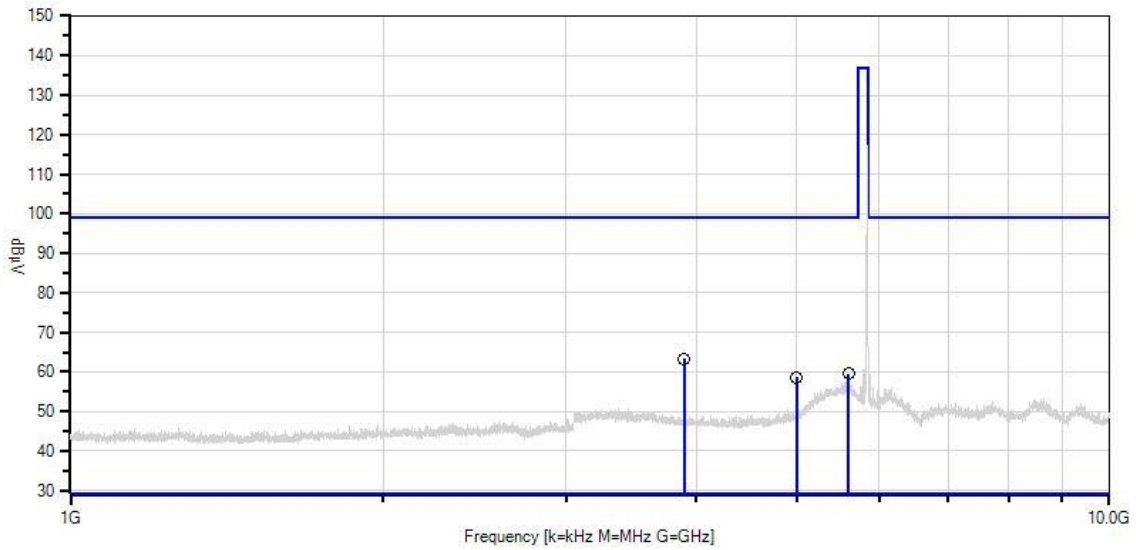
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist dB	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant	
1	3896.621M	52.6	+9.3	+1.4		+0.0	63.3	99.1	-35.8	None
2	5606.459M	48.5	+9.4	+1.6		+0.0	59.5	99.1	-39.6	None
3	5000.201M	47.6	+9.4	+1.6		+0.0	58.6	99.1	-40.5	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 8:27:00 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 8



- Sweep Data
- Peak Readings
- * Average Readings
- 1 - 15.247(d) Conducted Spurious Emissions
- Readings
- × QP Readings
- ▼ Ambient

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Conducted Emissions** Time: 8:58:15 AM
 Equipment: **GEN6 CPE** Sequence#: 13
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 10000MHz to 40000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: Low Channel at Span 5MHz
 Data rate =19.5Mbps

Ext Attn: 0 dB

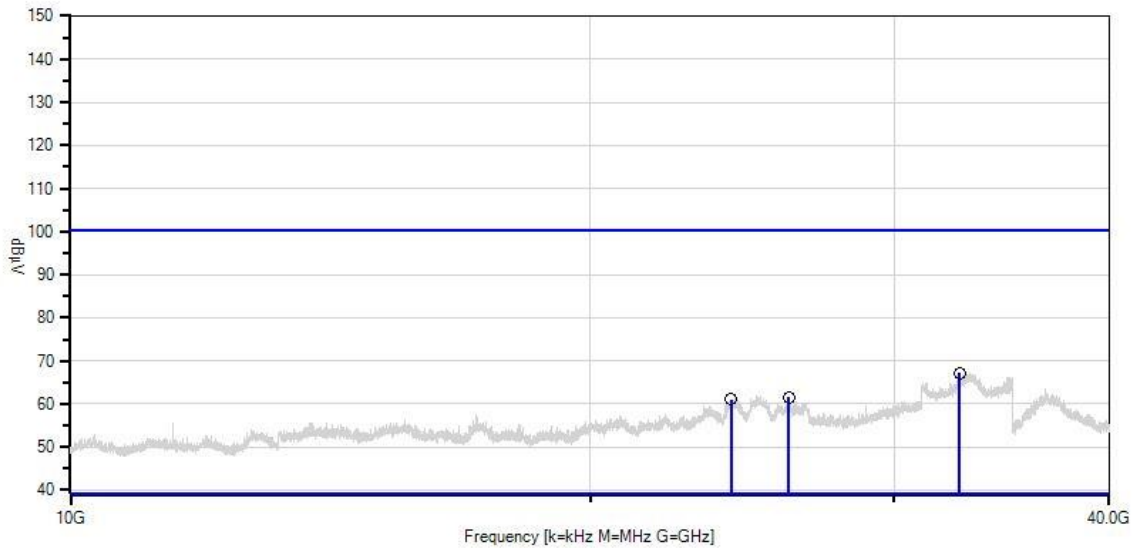
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	dB	dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	32748.485 M	51.6	+10.8	+4.7			+0.0	67.1	100.2	-33.1	None
2	26072.452 M	46.8	+10.4	+4.4			+0.0	61.6	100.2	-38.6	None
3	24152.553 M	46.2	+10.4	+4.4			+0.0	61.0	100.2	-39.2	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 8:58:15 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 13



- Sweep Data
- Peak Readings
- * Average Readings
- 1 - 15.247(d) Conducted Spurious Emissions
- Readings
- × QP Readings
- ▼ Ambient

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Conducted Emissions** Time: 8:47:57 AM
 Equipment: **GEN6 CPE** Sequence#: 11
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 10000MHz to 40000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: Middle Channel at Span 5MHz
 Data rate =19.5Mbps

Ext Attn: 0 dB

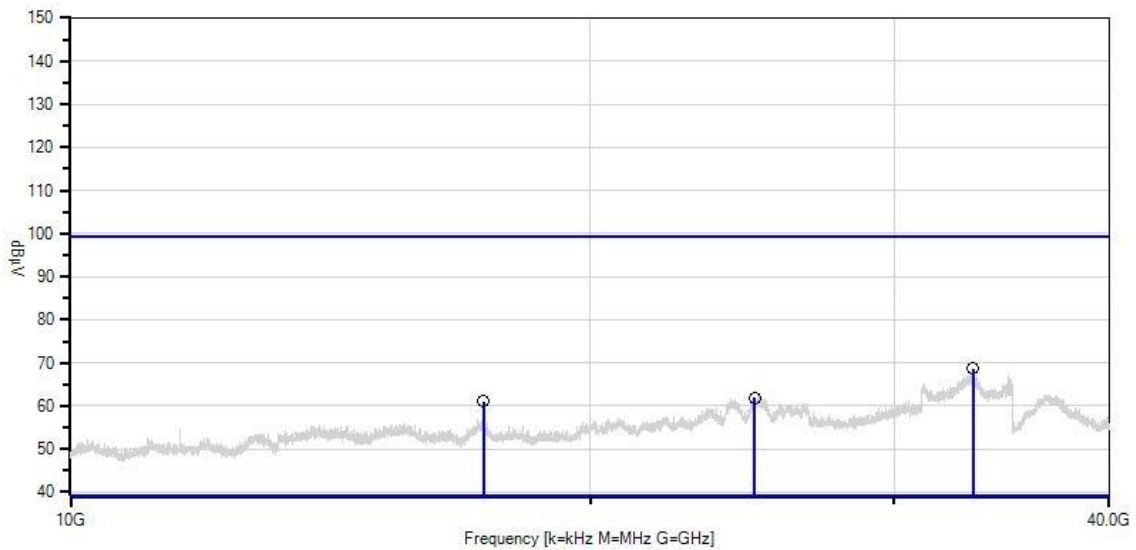
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist dB	Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	33334.484 M	53.3	+10.8	+4.6		+0.0	68.7	99.2	-30.5	None
2	24924.612 M	47.2	+10.4	+4.3		+0.0	61.9	99.2	-37.3	None
3	17354.665 M	48.1	+9.9	+3.0		+0.0	61.0	99.2	-38.2	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 8:47:57 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 11



- Sweep Data
- Peak Readings
- * Average Readings
- 1 - 15.247(d) Conducted Spurious Emissions
- Readings
- × QP Readings
- ▼ Ambient

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Conducted Emissions** Time: 8:33:57 AM
 Equipment: **GEN6 CPE** Sequence#: 9
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 10000MHz to 40000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: High Channel at Span 5MHz
 Data rate =19.5Mbps

Ext Attn: 0 dB

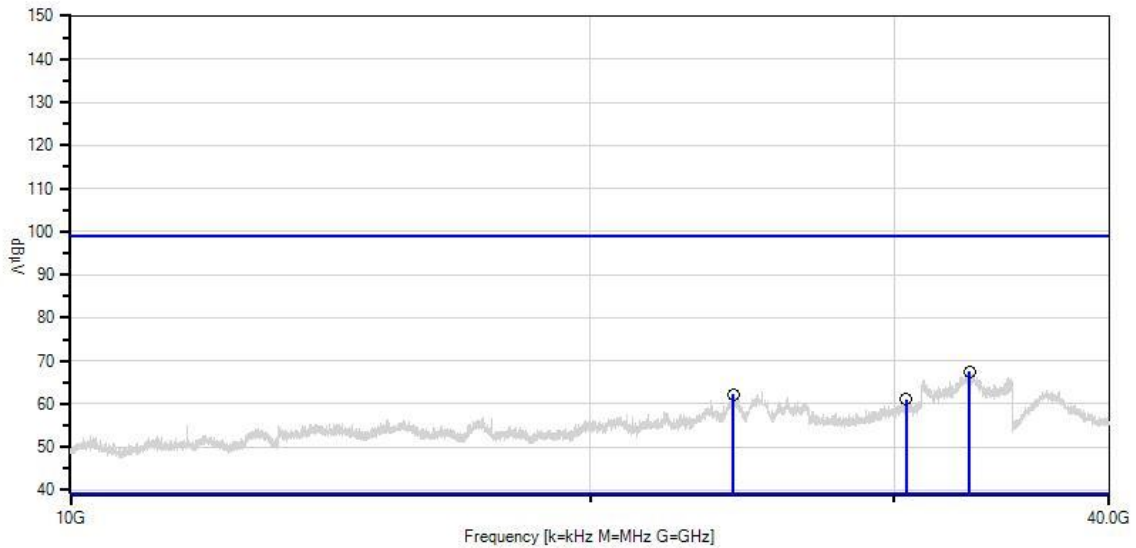
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist dB	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	33185.731 M	52.0	+10.8	+4.7	+0.0	67.5	99.1	-31.6	None
2	24210.628 M	47.4	+10.4	+4.4	+0.0	62.2	99.1	-36.9	None
3	30499.147 M	45.4	+10.8	+4.9	+0.0	61.1	99.1	-38.0	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 8:33:57 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 9



- Sweep Data
- Peak Readings
- * Average Readings
- 1 - 15.247(d) Conducted Spurious Emissions
- Readings
- × QP Readings
- ▼ Ambient

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Conducted Emissions** Time: 1:13:01 PM
 Equipment: **GEN6 CPE** Sequence#: 35
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	ANP01211	Attenuator	PE7002-10	4/2/2013	4/2/2015
	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 9kHz to 1000MHz
 Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: Low Channel at Span 10MHz
 Data rate =13 Mbps

NO EMISSIONS FOUND.

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Conducted Emissions** Time: 1:19:43 PM
 Equipment: **GEN6 CPE** Sequence#: 36
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	ANP01211	Attenuator	PE7002-10	4/2/2013	4/2/2015
	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 9kHz to 1000MHz
 Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: Middle Channel at Span 10MHz
 Data rate =13 Mbps

NO EMISSIONS FOUND.

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Conducted Emissions** Time: 1:25:49 PM
 Equipment: **GEN6 CPE** Sequence#: 37
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	ANP01211	Attenuator	PE7002-10	4/2/2013	4/2/2015
	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 9kHz to 1000MHz
 Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: High Channel at Span 10MHz
 Data rate =13 Mbps

NO EMISSIONS FOUND.

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/19/2013
 Test Type: **Conducted Emissions** Time: 8:13:10 PM
 Equipment: **GEN6 CPE** Sequence#: 2
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range 1000MHz to 1000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: Low Channel at Span 10MHz
 Data rate=13Mbps

Ext Attn: 0 dB

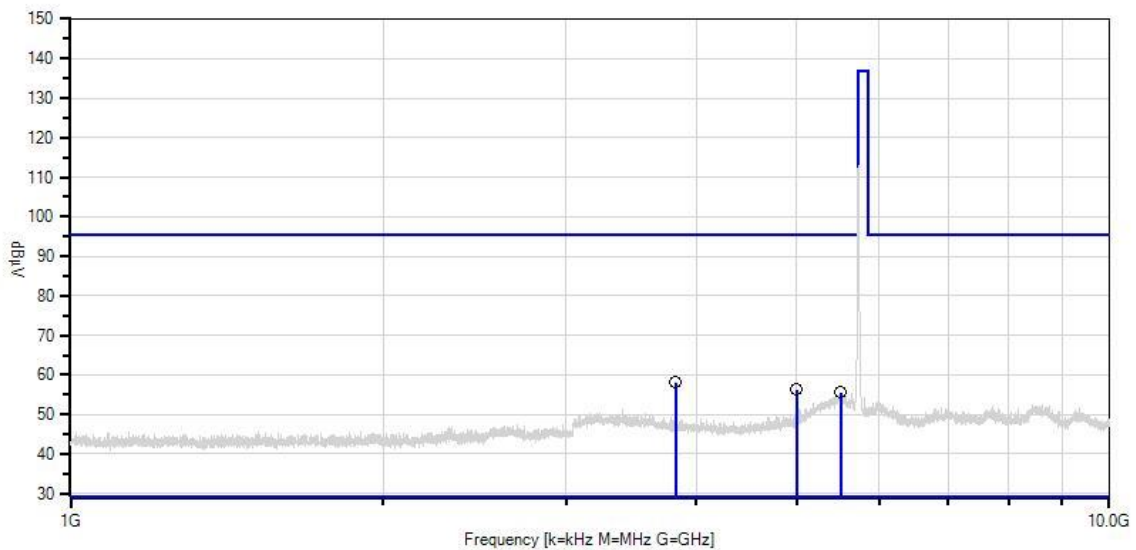
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist dB	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant	
1	3823.044M	47.4	+9.3	+1.4		+0.0	58.1	95.6	-37.5	None
2	4999.503M	45.2	+9.4	+1.6		+0.0	56.2	95.6	-39.4	None
3	5515.380M	44.6	+9.4	+1.6		+0.0	55.6	95.6	-40.0	None

CKC Laboratories, Inc Date: 6/19/2013 Time: 8:13:10 PM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 2



- Sweep Data
- Peak Readings
- * Average Readings
- 1 - 15.247(d) Conducted Spurious Emissions
- Readings
- × QP Readings
- ▼ Ambient

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/19/2013
 Test Type: **Conducted Emissions** Time: 8:28:08 PM
 Equipment: **GEN6 CPE** Sequence#: 4
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 1000MHz to 1000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: Middle Channel at Span 10MHz
 Data rate =13Mbps

Ext Attn: 0 dB

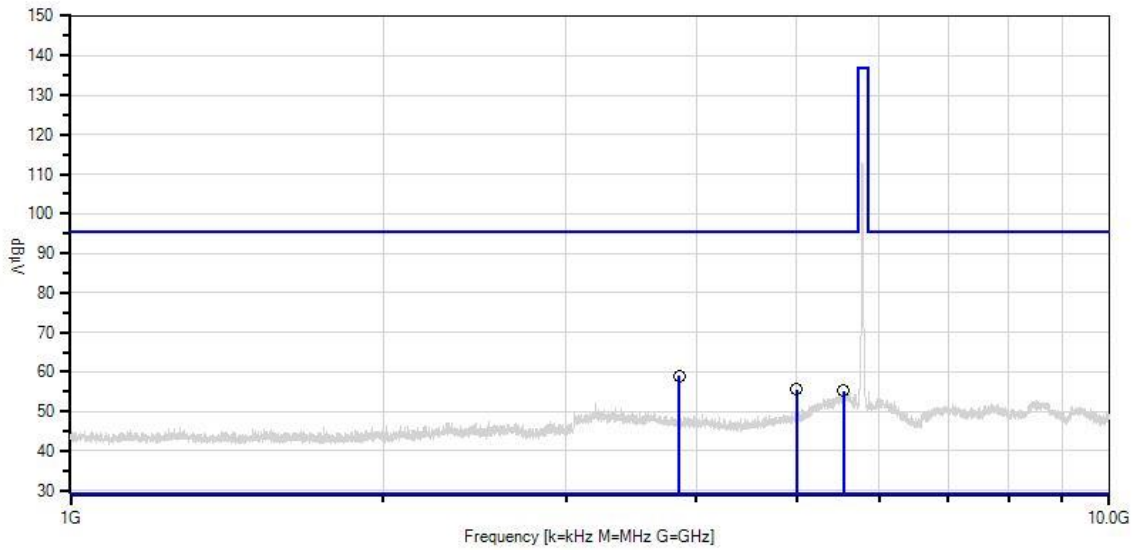
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist dB	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	3856.805M	48.2	+9.3	+1.4	+0.0	58.9	95.4	-36.5	None
2	5000.201M	44.6	+9.4	+1.6	+0.0	55.6	95.4	-39.8	None
3	5549.622M	44.2	+9.4	+1.6	+0.0	55.2	95.4	-40.2	None

CKC Laboratories, Inc Date: 6/19/2013 Time: 8:28:08 PM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 4



- Sweep Data
- Peak Readings
- * Average Readings
- 1 - 15.247(d) Conducted Spurious Emissions
- Readings
- × QP Readings
- ▼ Ambient

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/19/2013
 Test Type: **Conducted Emissions** Time: 8:42:37 PM
 Equipment: **GEN6 CPE** Sequence#: 6
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 1000MHz to 10000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: High Channel at Span 10MHz
 Data rate =13Mbps

Ext Attn: 0 dB

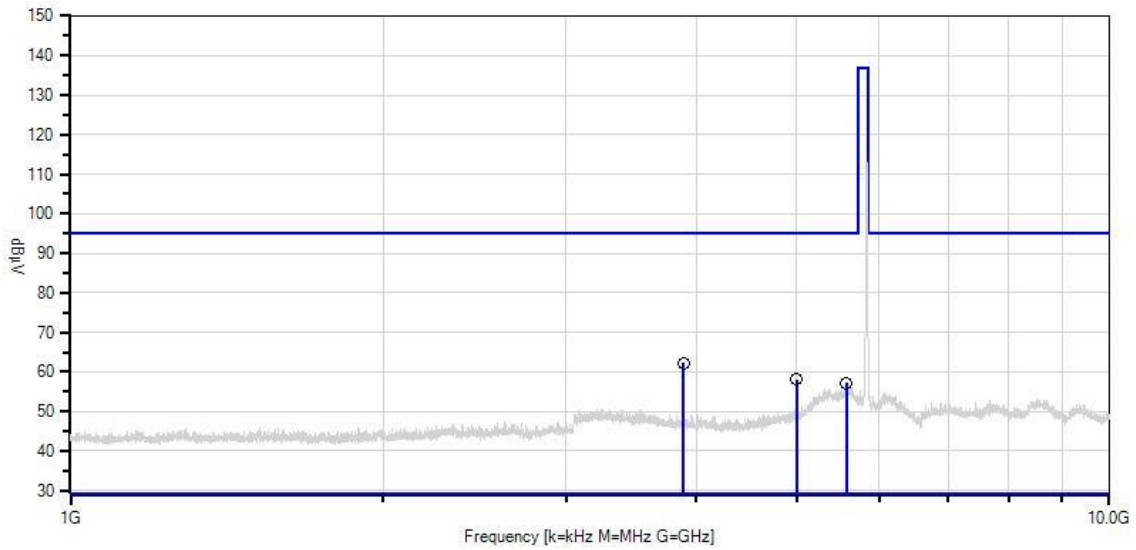
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist dB	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	3893.477M	51.5	+9.3	+1.4	+0.0	62.2	95.2	-33.0	None
2	5000.201M	47.0	+9.4	+1.6	+0.0	58.0	95.2	-37.2	None
3	5584.807M	46.1	+9.4	+1.6	+0.0	57.1	95.2	-38.1	None

CKC Laboratories, Inc Date: 6/19/2013 Time: 8:42:37 PM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 6



- Sweep Data
- Peak Readings
- * Average Readings
- 1 - 15.247(d) Conducted Spurious Emissions
- Readings
- × QP Readings
- ▼ Ambient

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/19/2013
 Test Type: **Conducted Emissions** Time: 8:19:20 PM
 Equipment: **GEN6 CPE** Sequence#: 3
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range 10000MHz to 40000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: Low Channel at Span 10MHz
 Data rate=13Mbps

Ext Attn: 0 dB

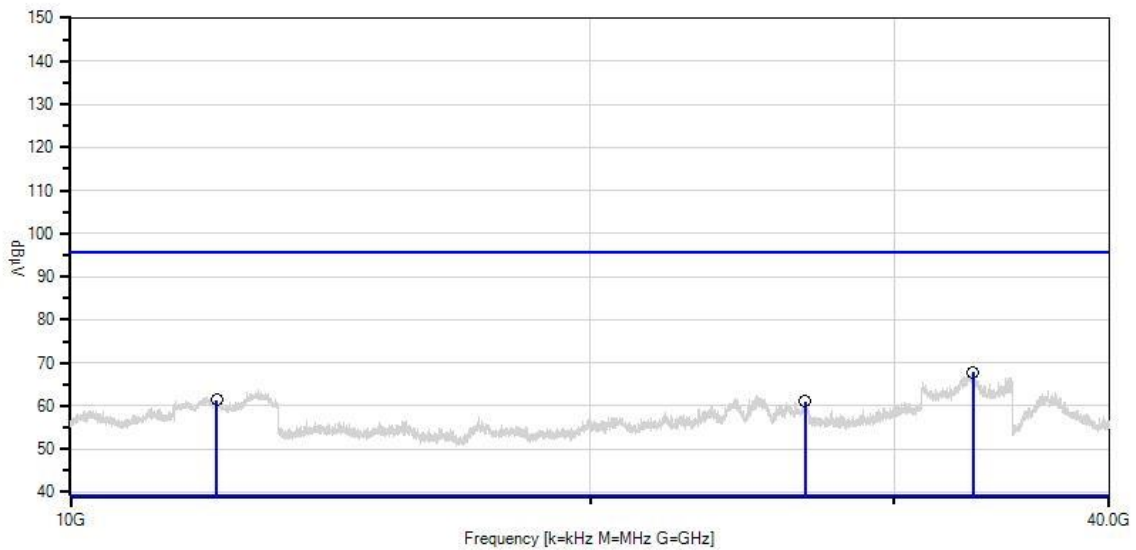
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	33343.500 M	52.4	+10.8	+4.6	+0.0	67.8	95.6	-27.8	None
2	12151.433 M	49.3	+9.7	+2.4	+0.0	61.4	95.6	-34.2	None
3	26660.926 M	46.3	+10.5	+4.3	+0.0	61.1	95.6	-34.5	None

CKC Laboratories, Inc Date: 6/19/2013 Time: 8:19:20 PM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 3



- Sweep Data
- Peak Readings
- * Average Readings
- 1 - 15.247(d) Conducted Spurious Emissions
- Readings
- × QP Readings
- ▼ Ambient

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/19/2013
 Test Type: **Conducted Emissions** Time: 8:35:09 PM
 Equipment: **GEN6 CPE** Sequence#: 5
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 10000MHz to 40000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: Middle Channel at Span 10MHz
 Data rate =13Mbps

Ext Attn: 0 dB

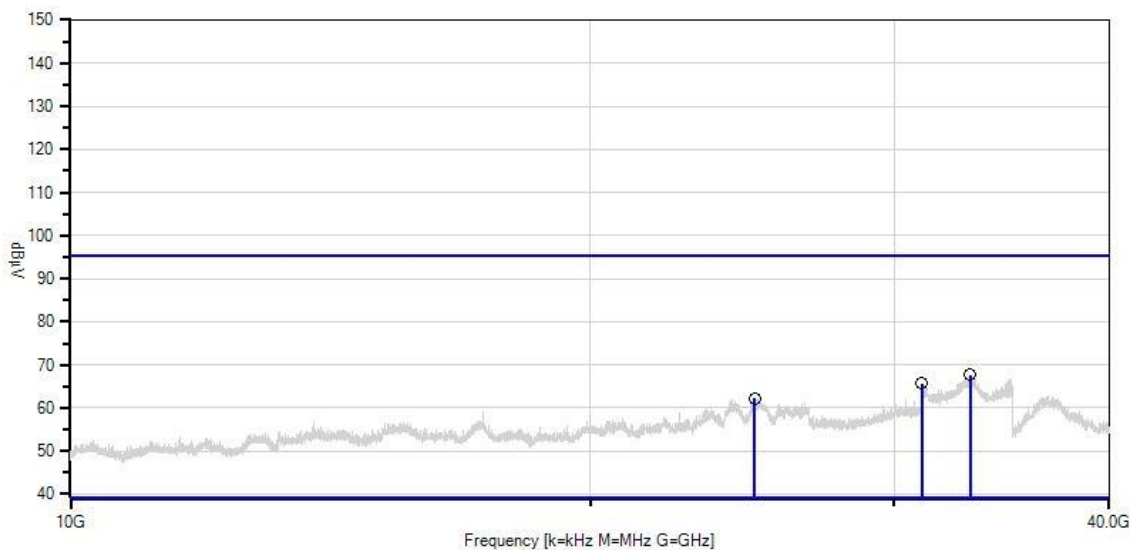
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	33235.315 M	52.3	+10.8	+4.6		+0.0	67.7	95.4	-27.7	None
2	31157.270 M	50.3	+10.6	+4.8		+0.0	65.7	95.4	-29.7	None
3	24914.364 M	47.5	+10.4	+4.3		+0.0	62.2	95.4	-33.2	None

CKC Laboratories, Inc Date: 6/19/2013 Time: 8:35:09 PM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 5



- Sweep Data
- Peak Readings
- * Average Readings
- 1 - 15.247(d) Conducted Spurious Emissions
- Readings
- × QP Readings
- ▼ Ambient

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/19/2013
 Test Type: **Conducted Emissions** Time: 8:47:05 PM
 Equipment: **GEN6 CPE** Sequence#: 7
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	ANP05411	Attenuator	54A-10	1/26/2012	1/26/2014
T2	ANP06125	Cable	32022-29094K-29094K-72TC	5/6/2013	5/6/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 10000MHz to 40000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: High Channel at Span 10MHz
 Data rate =13Mbps

Ext Attn: 0 dB

Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	dB	dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	33149.669 M	52.1	+10.8	+4.7			+0.0	67.6	95.2	-27.6	None
2	33221.792 M	51.9	+10.8	+4.7			+0.0	67.4	95.2	-27.8	None
3	33266.869 M	52.0	+10.8	+4.6			+0.0	67.4	95.2	-27.8	None
4	33104.592 M	51.8	+10.8	+4.7			+0.0	67.3	95.2	-27.9	None
5	32789.054 M	51.6	+10.8	+4.7			+0.0	67.1	95.2	-28.1	None
6	34928.671 M	51.1	+10.8	+5.1			+0.0	67.0	95.2	-28.2	None
7	33248.838 M	51.5	+10.8	+4.6			+0.0	66.9	95.2	-28.3	None
8	34956.242 M	50.6	+10.8	+5.1			+0.0	66.5	95.2	-28.7	None
9	35053.497 M	50.6	+10.8	+5.1			+0.0	66.5	95.2	-28.7	None
10	32856.669 M	50.9	+10.8	+4.7			+0.0	66.4	95.2	-28.8	None
11	34916.854 M	50.5	+10.8	+5.1			+0.0	66.4	95.2	-28.8	None
12	35098.944 M	50.2	+10.8	+5.2			+0.0	66.2	95.2	-29.0	None
13	35104.701 M	50.1	+10.8	+5.2			+0.0	66.1	95.2	-29.1	None
14	35120.455 M	50.1	+10.8	+5.2			+0.0	66.1	95.2	-29.1	None
15	34834.142 M	50.1	+10.8	+5.1			+0.0	66.0	95.2	-29.2	None
16	35068.949 M	50.0	+10.8	+5.2			+0.0	66.0	95.2	-29.2	None

17	31242.916 M	50.5	+10.6	+4.8	+0.0	65.9	95.2	-29.3	None
18	34924.429 M	50.0	+10.8	+5.1	+0.0	65.9	95.2	-29.3	None
19	35065.313 M	49.9	+10.8	+5.2	+0.0	65.9	95.2	-29.3	None
20	34959.271 M	49.9	+10.8	+5.1	+0.0	65.8	95.2	-29.4	None
21	34885.345 M	49.9	+10.8	+5.1	+0.0	65.8	95.2	-29.4	None
22	33555.361 M	50.4	+10.8	+4.6	+0.0	65.8	95.2	-29.4	None
23	35091.672 M	49.8	+10.8	+5.2	+0.0	65.8	95.2	-29.4	None
24	35080.765 M	49.8	+10.8	+5.2	+0.0	65.8	95.2	-29.4	None
25	35029.562 M	49.9	+10.8	+5.1	+0.0	65.8	95.2	-29.4	None
26	34921.399 M	49.8	+10.8	+5.1	+0.0	65.7	95.2	-29.5	None
27	35016.837 M	49.8	+10.8	+5.1	+0.0	65.7	95.2	-29.5	None
28	35075.918 M	49.7	+10.8	+5.2	+0.0	65.7	95.2	-29.5	None
29	34912.613 M	49.7	+10.8	+5.1	+0.0	65.6	95.2	-29.6	None
30	34869.893 M	49.7	+10.8	+5.1	+0.0	65.6	95.2	-29.6	None
31	34848.988 M	49.7	+10.8	+5.1	+0.0	65.6	95.2	-29.6	None
32	34934.427 M	49.7	+10.8	+5.1	+0.0	65.6	95.2	-29.6	None
33	35125.000 M	49.6	+10.8	+5.2	+0.0	65.6	95.2	-29.6	None

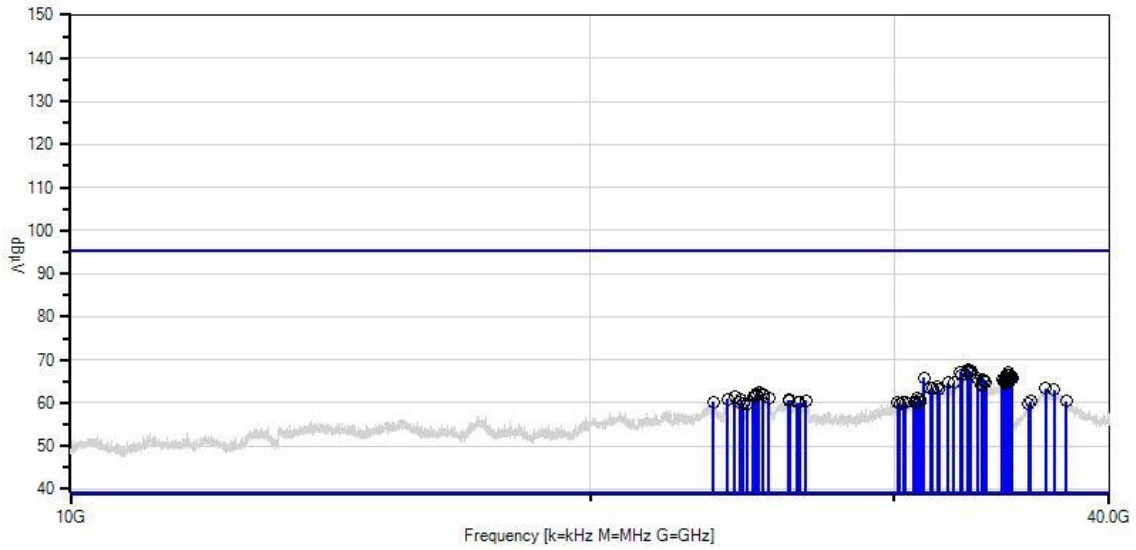
34	35070.767 M	49.6	+10.8	+5.2	+0.0	65.6	95.2	-29.6	None
35	34952.000 M	49.7	+10.8	+5.1	+0.0	65.6	95.2	-29.6	None
36	34871.408 M	49.6	+10.8	+5.1	+0.0	65.5	95.2	-29.7	None
37	34659.746 M	49.6	+10.9	+5.0	+0.0	65.5	95.2	-29.7	None
38	35051.073 M	49.6	+10.8	+5.1	+0.0	65.5	95.2	-29.7	None
39	34873.529 M	49.6	+10.8	+5.1	+0.0	65.5	95.2	-29.7	None
40	34847.473 M	49.5	+10.8	+5.1	+0.0	65.4	95.2	-29.8	None
41	34799.484 M	49.5	+10.8	+5.1	+0.0	65.4	95.2	-29.8	None
42	33767.223 M	50.1	+10.8	+4.5	+0.0	65.4	95.2	-29.8	None
43	34874.741 M	49.5	+10.8	+5.1	+0.0	65.4	95.2	-29.8	None
44	35003.506 M	49.5	+10.8	+5.1	+0.0	65.4	95.2	-29.8	None
45	34939.275 M	49.5	+10.8	+5.1	+0.0	65.4	95.2	-29.8	None
46	34875.650 M	49.5	+10.8	+5.1	+0.0	65.4	95.2	-29.8	None
47	34879.588 M	49.4	+10.8	+5.1	+0.0	65.3	95.2	-29.9	None
48	34740.884 M	49.3	+10.8	+5.1	+0.0	65.2	95.2	-30.0	None
49	34838.080 M	49.3	+10.8	+5.1	+0.0	65.2	95.2	-30.0	None
50	34990.781 M	49.3	+10.8	+5.1	+0.0	65.2	95.2	-30.0	None

51	33852.869 M	49.8	+10.8	+4.5	+0.0	65.1	95.2	-30.1	None
52	34895.949 M	49.2	+10.8	+5.1	+0.0	65.1	95.2	-30.1	None
53	34908.674 M	49.2	+10.8	+5.1	+0.0	65.1	95.2	-30.1	None
54	34835.657 M	49.1	+10.8	+5.1	+0.0	65.0	95.2	-30.2	None
55	34942.608 M	49.1	+10.8	+5.1	+0.0	65.0	95.2	-30.2	None
56	33915.977 M	49.5	+10.8	+4.5	+0.0	64.8	95.2	-30.4	None
57	34841.110 M	48.9	+10.8	+5.1	+0.0	64.8	95.2	-30.4	None
58	32257.146 M	49.3	+10.7	+4.7	+0.0	64.7	95.2	-30.5	None
59	32509.577 M	49.3	+10.7	+4.7	+0.0	64.7	95.2	-30.5	None
60	34822.023 M	48.4	+10.8	+5.1	+0.0	64.3	95.2	-30.9	None
61	33789.761 M	48.9	+10.8	+4.5	+0.0	64.2	95.2	-31.0	None
62	33717.638 M	48.8	+10.8	+4.5	+0.0	64.1	95.2	-31.1	None
63	31806.377 M	48.5	+10.7	+4.6	+0.0	63.8	95.2	-31.4	None
64	31590.008 M	48.1	+10.7	+4.6	+0.0	63.4	95.2	-31.8	None
65	31499.854 M	48.0	+10.6	+4.7	+0.0	63.3	95.2	-31.9	None
66	36724.000 M	58.3	+0.0	+5.0	+0.0	63.3	95.2	-31.9	None
67	31869.485 M	47.8	+10.7	+4.6	+0.0	63.1	95.2	-32.1	None

68	37162.750 M	58.1	+0.0	+5.0	+0.0	63.1	95.2	-32.1	None
69	25068.092 M	47.7	+10.4	+4.2	+0.0	62.3	95.2	-32.9	None
70	24979.271 M	47.6	+10.4	+4.2	+0.0	62.2	95.2	-33.0	None
71	25187.659 M	47.7	+10.4	+4.1	+0.0	62.2	95.2	-33.0	None
72	24958.774 M	47.1	+10.4	+4.2	+0.0	61.7	95.2	-33.5	None
73	25204.740 M	47.2	+10.4	+4.1	+0.0	61.7	95.2	-33.5	None
74	24869.953 M	46.7	+10.4	+4.3	+0.0	61.4	95.2	-33.8	None
75	24924.612 M	46.7	+10.4	+4.3	+0.0	61.4	95.2	-33.8	None
76	24258.455 M	46.4	+10.4	+4.5	+0.0	61.3	95.2	-33.9	None
77	25389.214 M	46.7	+10.4	+4.1	+0.0	61.2	95.2	-34.0	None
78	30958.931 M	45.7	+10.6	+4.9	+0.0	61.2	95.2	-34.0	None
79	24039.819 M	46.2	+10.3	+4.4	+0.0	60.9	95.2	-34.3	None
80	31067.116 M	45.4	+10.6	+4.9	+0.0	60.9	95.2	-34.3	None
81	24470.259 M	45.9	+10.4	+4.5	+0.0	60.8	95.2	-34.4	None
82	26079.285 M	45.9	+10.4	+4.4	+0.0	60.7	95.2	-34.5	None
83	26110.031 M	45.8	+10.4	+4.4	+0.0	60.6	95.2	-34.6	None
84	26680.547 M	45.7	+10.5	+4.3	+0.0	60.5	95.2	-34.7	None

85	36022.000 M	55.2	+0.0	+5.2	+0.0	60.4	95.2	-34.8	None
86	37777.000 M	55.7	+0.0	+4.7	+0.0	60.4	95.2	-34.8	None
87	30386.454 M	44.6	+10.8	+4.9	+0.0	60.3	95.2	-34.9	None
88	23582.049 M	45.6	+10.3	+4.4	+0.0	60.3	95.2	-34.9	None
89	30463.085 M	44.6	+10.8	+4.9	+0.0	60.3	95.2	-34.9	None
90	30877.793 M	44.7	+10.7	+4.9	+0.0	60.3	95.2	-34.9	None
91	30828.208 M	44.7	+10.7	+4.9	+0.0	60.3	95.2	-34.9	None
92	26369.661 M	45.3	+10.4	+4.4	+0.0	60.1	95.2	-35.1	None
93	26441.172 M	45.3	+10.4	+4.4	+0.0	60.1	95.2	-35.1	None
94	30161.289 M	44.4	+10.9	+4.8	+0.0	60.1	95.2	-35.1	None
95	24419.016 M	45.1	+10.4	+4.5	+0.0	60.0	95.2	-35.2	None
96	31089.654 M	44.5	+10.6	+4.9	+0.0	60.0	95.2	-35.2	None
97	24671.814 M	45.0	+10.4	+4.4	+0.0	59.8	95.2	-35.4	None
98	24531.750 M	44.9	+10.4	+4.5	+0.0	59.8	95.2	-35.4	None
99	35909.875 M	54.6	+0.0	+5.2	+0.0	59.8	95.2	-35.4	None
100	30239.772 M	44.2	+10.8	+4.8	+0.0	59.8	95.2	-35.4	None

CKC Laboratories, Inc Date: 6/19/2013 Time: 8:47:05 PM Digital Path WO#: 94341
 Test Lead: None 120V 60Hz Sequence#: 7



- Sweep Data
- Peak Readings
- * Average Readings
- Readings
- × QP Readings
- ▼ Ambient
- 1 - 15.247(d) Conducted Spurious Emissions

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Conducted Emissions** Time: 11:26:48 AM
 Equipment: **GEN6 CPE** Sequence#: 29
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	ANP01211	Attenuator	PE7002-10	4/2/2013	4/2/2015
	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 9kHz to 1000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: Low Channel at Span 5MHz
 Data rate =19.5 Mbps

NO EMISSIONS FOUND.

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Conducted Emissions** Time: 11:33:56 AM
 Equipment: **GEN6 CPE** Sequence#: 30
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	ANP01211	Attenuator	PE7002-10	4/2/2013	4/2/2015
	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 9kHz to 1000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: Middle Channel at Span 5MHz
 Data rate =19.5 Mbps
NO EMISSIONS FOUND.

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170

Customer: **Digital Path**
 Specification: **15.247(d) Conducted Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Conducted Emissions** Time: 11:40:21 AM
 Equipment: **GEN6 CPE** Sequence#: 31
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x 120V 60Hz
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	ANP01211	Attenuator	PE7002-10	4/2/2013	4/2/2015
	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
POE Power Adapter	ITE Power Supply	FAS24000050-C44	None
GEN6 CPE*	Digital Path	2x	004

Support Devices:

Function	Manufacturer	Model #	S/N
AC/DC power adapter for laptop	HP	Series PPP012H-S	F12941126327228
Laptop	HP	Probook 6565b	None

Test Conditions / Notes:

Conducted Spurious Emission
 Frequency Range: 9kHz to 1000MHz

Software Used: art2_ver2_28_6BIN
 Temperature: 22.3°C
 Humidity: 41 %
 Atmospheric Pressure: 101.4 kPa
 High Clock: 40 MHz clock, board runs at 560 MHz

RBW=100kHz
 VBW=300kHz

Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm

The EUT is on the table and connected to the Spectrum Analyzer.

Note: High Channel at Span 5MHz
 Data rate =19.5 Mbps
NO EMISSIONS FOUND.