

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: 9:05:50 AM
 Equipment: **GEN6 CPE** Sequence#: 14
 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

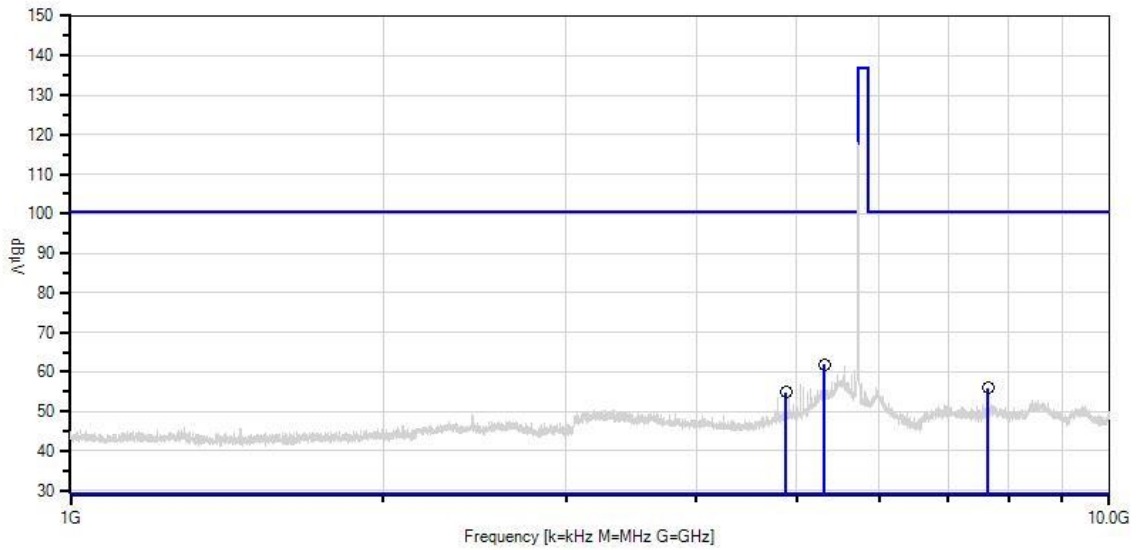
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist dB	Table dB	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant	
1	5319.569M	51.0	+9.4	+1.5			+0.0	61.9	100.5	-38.6	None
2	7639.517M	44.5	+9.4	+2.1			+0.0	56.0	100.5	-44.5	None
3	4879.761M	43.9	+9.3	+1.6			+0.0	54.8	100.5	-45.7	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 9:05:50 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 14



- 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: 9:19:51 AM
 Equipment: **GEN6 CPE** Sequence#: 16
 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

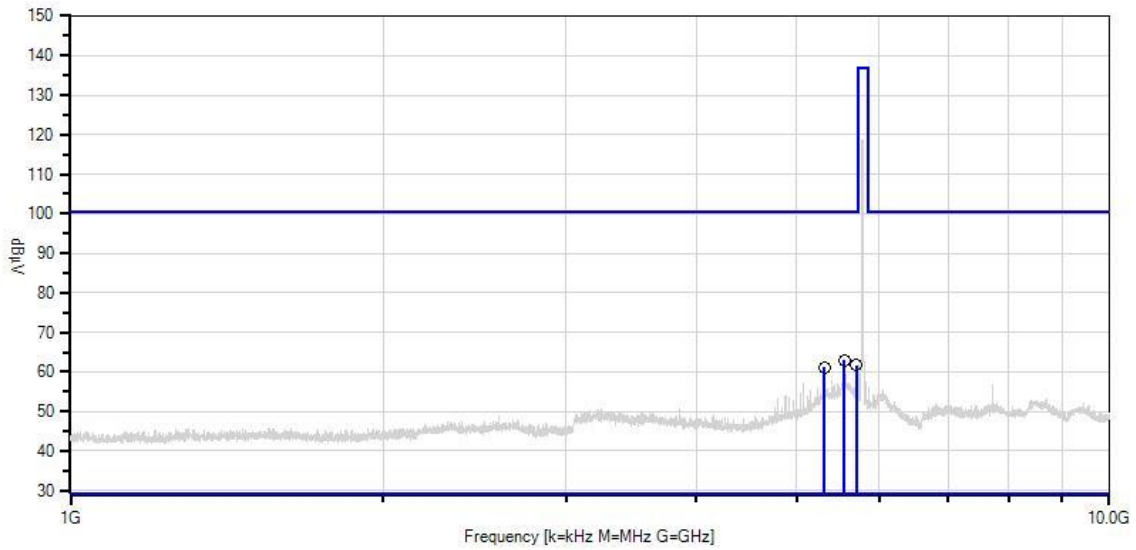
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist dB	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant	
1	5560.448M	52.0	+9.4	+1.6		+0.0	63.0	100.5	-37.5	None
2	5706.599M	50.6	+9.4	+1.6		+0.0	61.6	100.5	-38.9	None
3	5319.569M	50.3	+9.4	+1.5		+0.0	61.2	100.5	-39.3	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 9:19:51 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 16



- 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: 9:35:08 AM
 Equipment: **GEN6 CPE** Sequence#: 18
 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

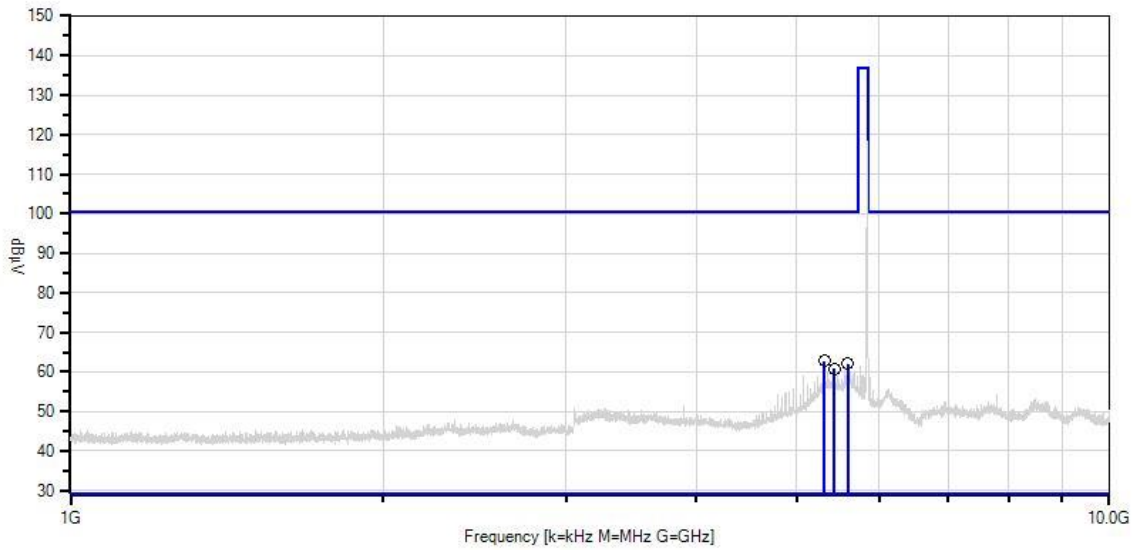
Measurement Data:

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	5319.569M	51.8	+9.4	+1.5		+0.0	62.7	100.4	-37.7	None
2	5599.692M	51.1	+9.4	+1.6		+0.0	62.1	100.4	-38.3	None
3	5440.008M	49.7	+9.4	+1.6		+0.0	60.7	100.4	-39.7	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 9:35:08 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 18



- 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: 9:11:28 AM
 Equipment: **GEN6 CPE** Sequence#: 15
 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 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

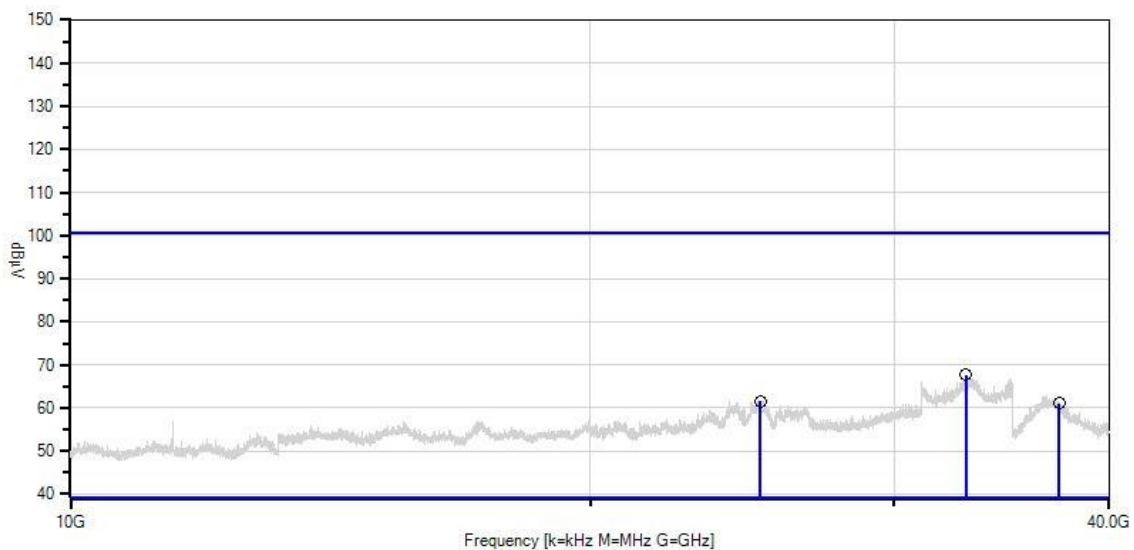
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist dB	Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	33027.961 M	52.1	+10.8	+4.7		+0.0	67.6	100.5	-32.9	None
2	25102.254 M	47.0	+10.4	+4.2		+0.0	61.6	100.5	-38.9	None
3	37406.500 M	56.2	+0.0	+4.9		+0.0	61.1	100.5	-39.4	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 9:11:28 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 15



- 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: 9:28:29 AM
 Equipment: **GEN6 CPE** Sequence#: 17
 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

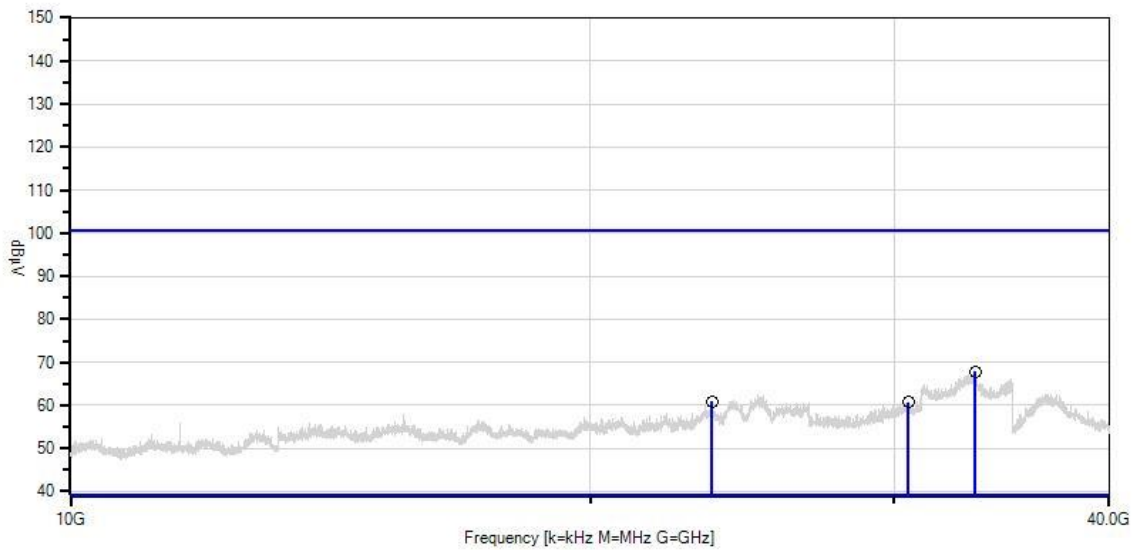
The EUT is on the table and connected to the Spectrum Analyzer.

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	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant	
1	33433.654 M	52.5	+10.8	+4.6		+0.0	67.9	100.5	-32.6	None	
2	23544.471 M	46.2	+10.3	+4.4		+0.0	60.9	100.5	-39.6	None	
3	30589.300 M	45.1	+10.8	+4.9		+0.0	60.8	100.5	-39.7	None	

CKC Laboratories, Inc Date: 6/20/2013 Time: 9:28:29 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 17



- 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: 9:40:01 AM
 Equipment: **GEN6 CPE** Sequence#: 19
 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

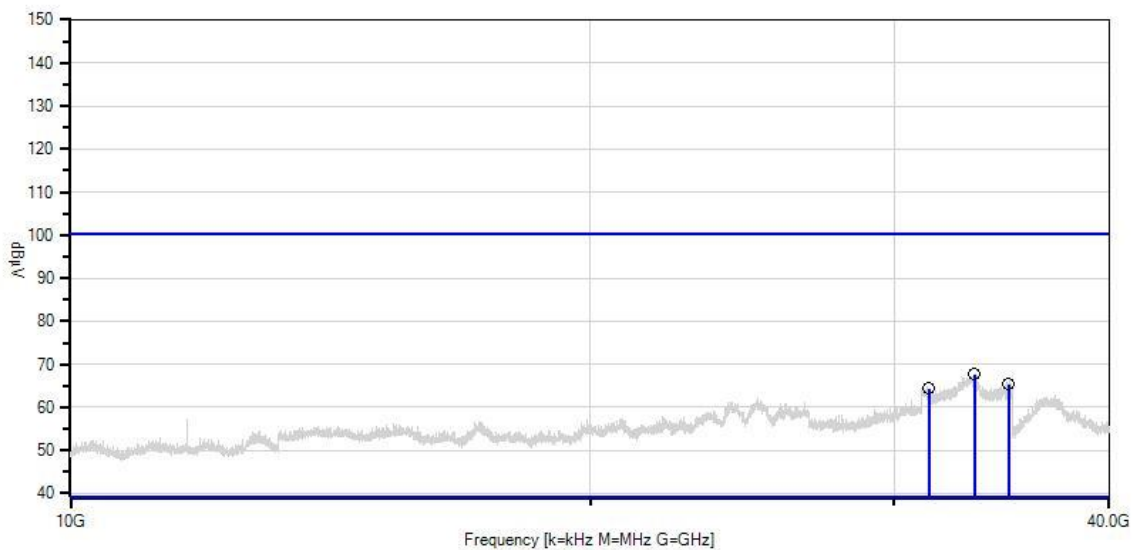
The EUT is on the table and connected to the Spectrum Analyzer.

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	Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	33424.638 M	52.3	+10.8	+4.6		+0.0		67.7	100.4	-32.7	None
2	34975.935 M	49.4	+10.8	+5.1		+0.0		65.3	100.4	-35.1	None
3	31441.254 M	49.0	+10.6	+4.7		+0.0		64.3	100.4	-36.1	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 9:40:01 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 19



- 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: 11:09:03 AM
 Equipment: **GEN6 CPE** Sequence#: 26
 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 =13Mbps

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: 11:14:09 AM
 Equipment: **GEN6 CPE** Sequence#: 27
 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 =13Mbps

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: 11:20:45 AM
 Equipment: **GEN6 CPE** Sequence#: 28
 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 =13Mbps
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: 10:24:34 AM
 Equipment: **GEN6 CPE** Sequence#: 24
 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

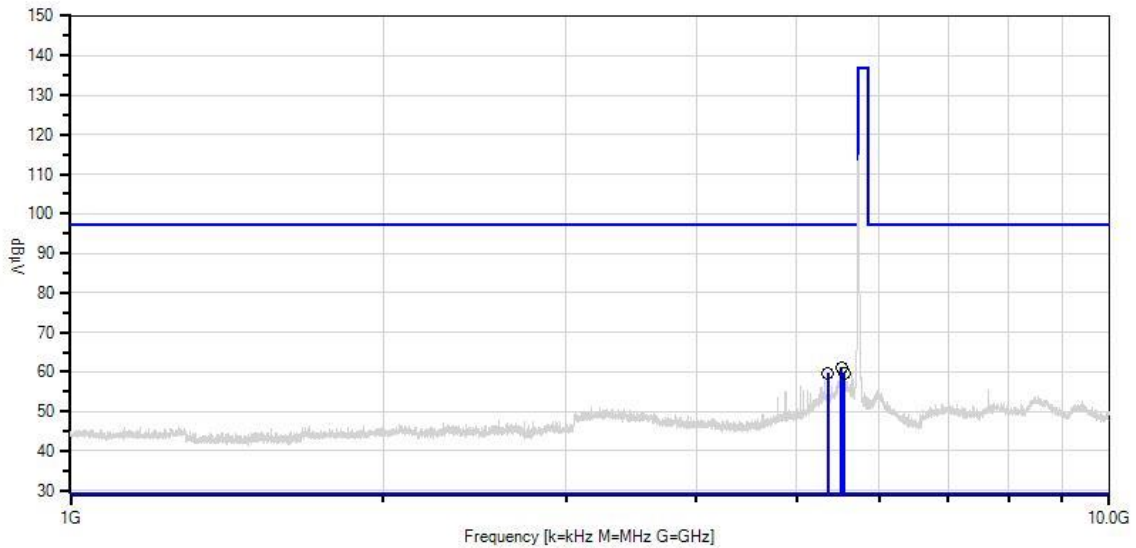
The EUT is on the table and connected to the Spectrum Analyzer.

Note: Low Channel at Span 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	Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	5519.850M	50.1	+9.4	+1.6		+0.0		61.1	97.4	-36.3	None
2	5560.448M	48.7	+9.4	+1.6		+0.0		59.7	97.4	-37.7	None
3	5360.167M	48.7	+9.4	+1.6		+0.0		59.7	97.4	-37.7	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 10:24:34 AM Digital Path WO#: 94341
 Test Lead: None 120V 60Hz Sequence#: 24



- 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: 10:05:59 AM
 Equipment: **GEN6 CPE** Sequence#: 22
 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 10MHz
 Data rate =13Mbps

Ext Attn: 0 dB

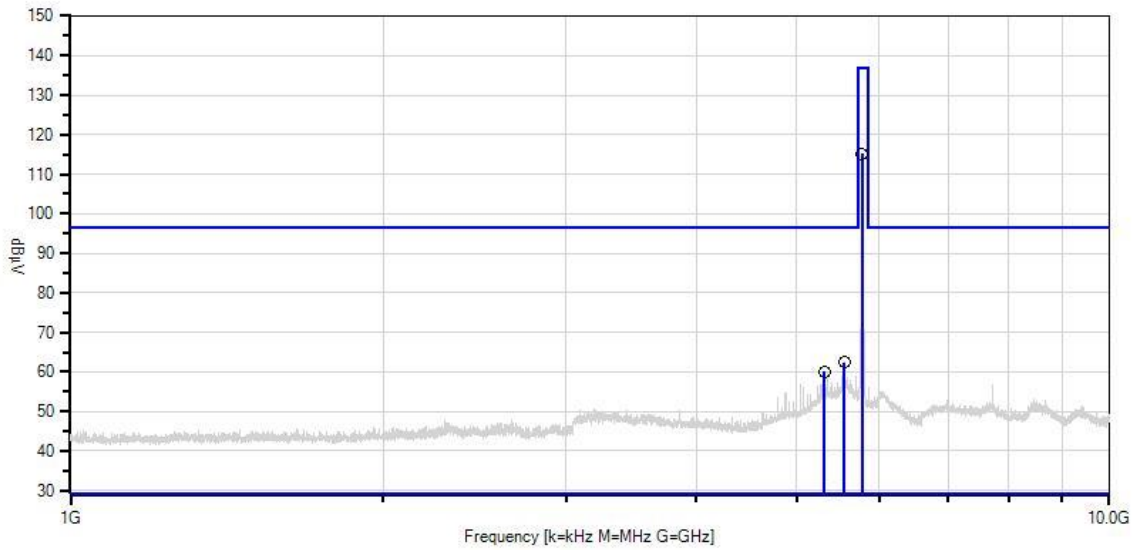
Measurement Data:

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	5782.382M	104.1	+9.4	+1.6	+0.0	115.1	137.0	-21.9	None
2	5560.448M	51.4	+9.4	+1.6	+0.0	62.4	96.7	-34.3	None
3	5319.569M	49.1	+9.4	+1.5	+0.0	60.0	96.7	-36.7	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 10:05:59 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 22



- 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: 9:48:30 AM
 Equipment: **GEN6 CPE** Sequence#: 20
 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

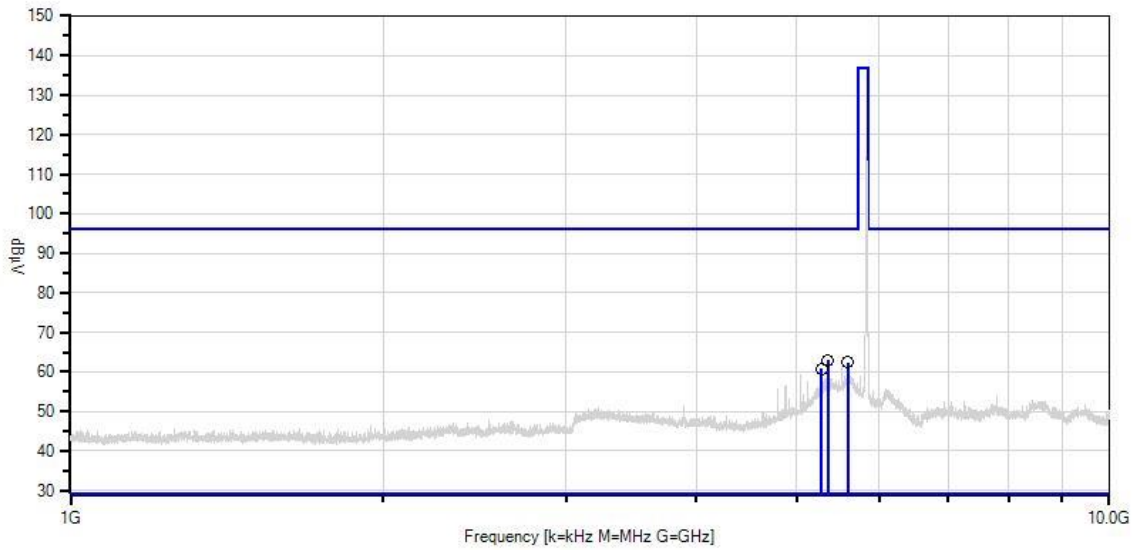
Measurement Data:

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	5360.167M	52.0	+9.4	+1.6		+0.0	63.0	96.3	-33.3	None
2	5599.692M	51.4	+9.4	+1.6		+0.0	62.4	96.3	-33.9	None
3	5280.325M	49.8	+9.4	+1.5		+0.0	60.7	96.3	-35.6	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 9:48:30 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 20



- 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: 10:36:07 AM
 Equipment: **GEN6 CPE** Sequence#: 25
 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

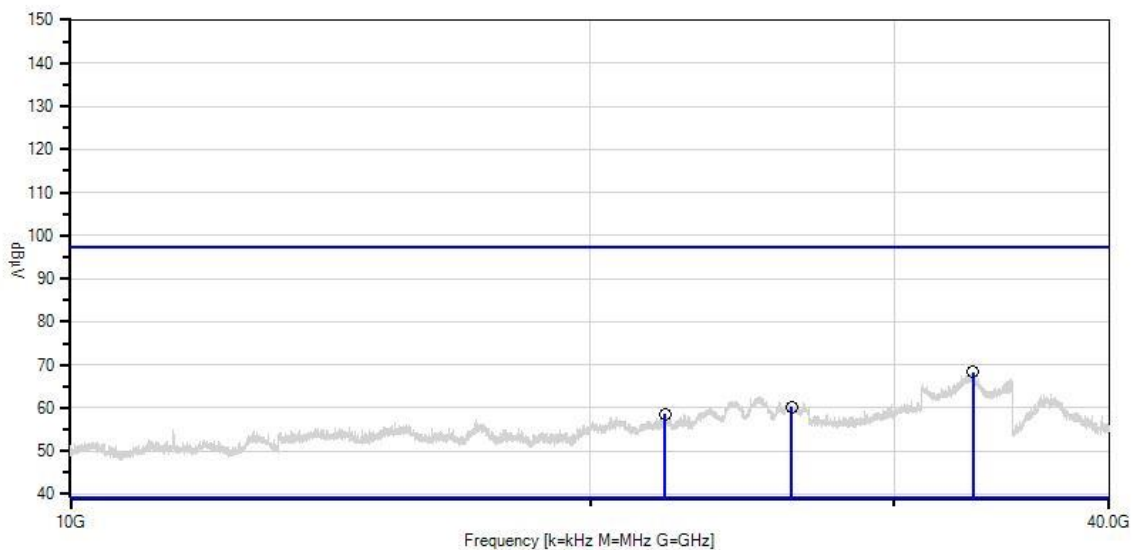
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist dB	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant	
1	33338.992 M	53.0	+10.8	+4.6		+0.0	68.4	97.4	-29.0	None
2	26185.187 M	45.5	+10.4	+4.4		+0.0	60.3	97.4	-37.1	None
3	22111.517 M	44.0	+10.2	+4.4		+0.0	58.6	97.4	-38.8	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 10:36:07 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 25



- 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: 10:10:29 AM
 Equipment: **GEN6 CPE** Sequence#: 23
 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

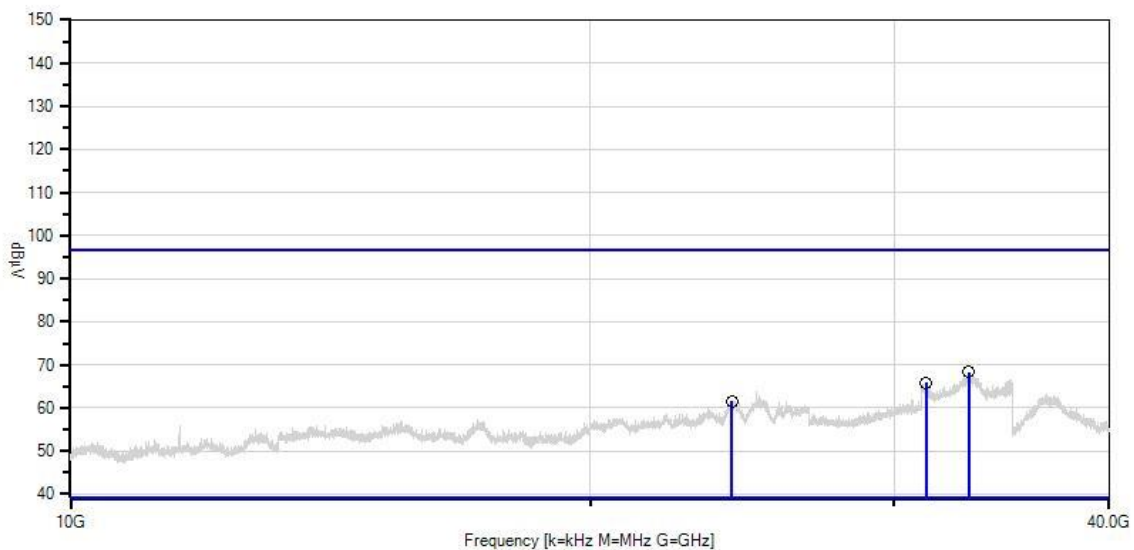
Measurement Data:

Reading listed by margin.

Test Lead: None

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	Dist dB	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	33172.208 M	52.8	+10.8	+4.7	+0.0	68.3	96.7	-28.4	None
2	31315.039 M	50.4	+10.6	+4.8	+0.0	65.8	96.7	-30.9	None
3	24176.466 M	46.8	+10.4	+4.4	+0.0	61.6	96.7	-35.1	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 10:10:29 AM Digital Path WO#: 94341
Test Lead: None 120V 60Hz Sequence#: 23



- 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: 9:52:56 AM
 Equipment: **GEN6 CPE** Sequence#: 21
 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	33158.684 M	52.2	+10.8	+4.7			+0.0	67.7	96.3	-28.6	None
2	33203.761 M	51.9	+10.8	+4.7			+0.0	67.4	96.3	-28.9	None
3	34986.842 M	50.6	+10.8	+5.1			+0.0	66.5	96.3	-29.8	None
4	35094.399 M	50.3	+10.8	+5.2			+0.0	66.3	96.3	-30.0	None
5	32789.054 M	50.7	+10.8	+4.7			+0.0	66.2	96.3	-30.1	None
6	35076.524 M	50.2	+10.8	+5.2			+0.0	66.2	96.3	-30.1	None
7	32780.038 M	50.6	+10.8	+4.7			+0.0	66.1	96.3	-30.2	None
8	35113.487 M	50.0	+10.8	+5.2			+0.0	66.0	96.3	-30.3	None
9	35117.123 M	50.0	+10.8	+5.2			+0.0	66.0	96.3	-30.3	None
10	35051.982 M	50.0	+10.8	+5.1			+0.0	65.9	96.3	-30.4	None
11	35102.277 M	49.9	+10.8	+5.2			+0.0	65.9	96.3	-30.4	None
12	34908.068 M	49.9	+10.8	+5.1			+0.0	65.8	96.3	-30.5	None
13	32892.731 M	50.3	+10.8	+4.7			+0.0	65.8	96.3	-30.5	None
14	35083.492 M	49.8	+10.8	+5.2			+0.0	65.8	96.3	-30.5	None
15	35022.594 M	49.9	+10.8	+5.1			+0.0	65.8	96.3	-30.5	None
16	34878.073 M	49.8	+10.8	+5.1			+0.0	65.7	96.3	-30.6	None

17	34954.121 M	49.7	+10.8	+5.1	+0.0	65.6	96.3	-30.7	None
18	35046.832 M	49.6	+10.8	+5.1	+0.0	65.5	96.3	-30.8	None
19	35036.531 M	49.6	+10.8	+5.1	+0.0	65.5	96.3	-30.8	None
20	35061.678 M	49.5	+10.8	+5.2	+0.0	65.5	96.3	-30.8	None
21	35118.637 M	49.5	+10.8	+5.2	+0.0	65.5	96.3	-30.8	None
22	35067.434 M	49.5	+10.8	+5.2	+0.0	65.5	96.3	-30.8	None
23	31242.916 M	50.0	+10.6	+4.8	+0.0	65.4	96.3	-30.9	None
24	35088.037 M	49.4	+10.8	+5.2	+0.0	65.4	96.3	-30.9	None
25	34955.333 M	49.4	+10.8	+5.1	+0.0	65.3	96.3	-31.0	None
26	35005.627 M	49.4	+10.8	+5.1	+0.0	65.3	96.3	-31.0	None
27	33622.977 M	49.9	+10.8	+4.6	+0.0	65.3	96.3	-31.0	None
28	34886.557 M	49.4	+10.8	+5.1	+0.0	65.3	96.3	-31.0	None
29	35040.469 M	49.4	+10.8	+5.1	+0.0	65.3	96.3	-31.0	None
30	35053.497 M	49.4	+10.8	+5.1	+0.0	65.3	96.3	-31.0	None
31	35018.049 M	49.4	+10.8	+5.1	+0.0	65.3	96.3	-31.0	None
32	35029.562 M	49.4	+10.8	+5.1	+0.0	65.3	96.3	-31.0	None
33	34948.061 M	49.3	+10.8	+5.1	+0.0	65.2	96.3	-31.1	None

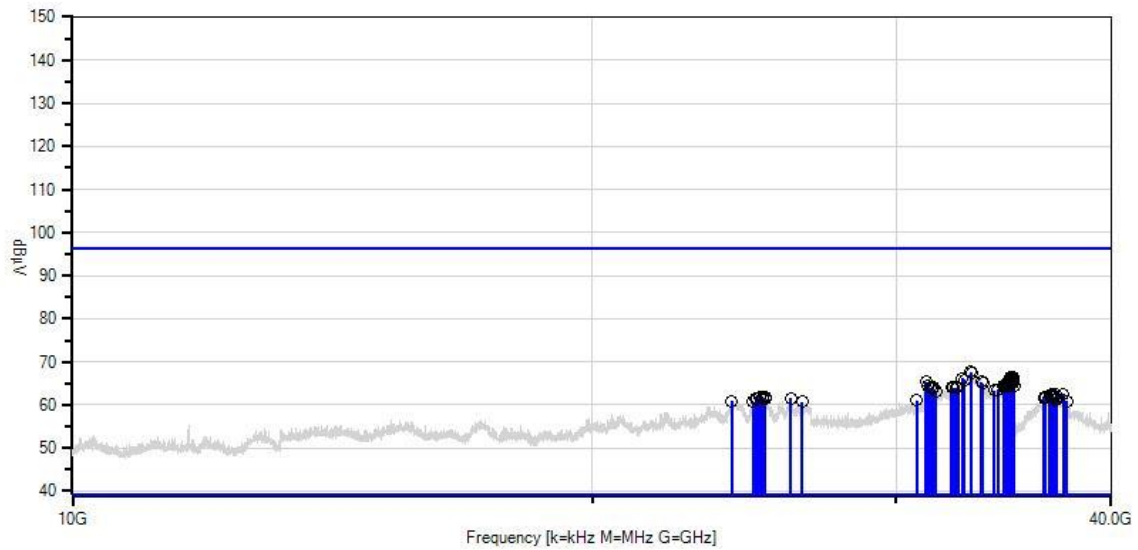
34	34869.287 M	49.3	+10.8	+5.1	+0.0	65.2	96.3	-31.1	None
35	35104.398 M	49.2	+10.8	+5.2	+0.0	65.2	96.3	-31.1	None
36	35056.527 M	49.3	+10.8	+5.1	+0.0	65.2	96.3	-31.1	None
37	34906.856 M	49.2	+10.8	+5.1	+0.0	65.1	96.3	-31.2	None
38	35013.201 M	49.2	+10.8	+5.1	+0.0	65.1	96.3	-31.2	None
39	33699.607 M	49.7	+10.8	+4.5	+0.0	65.0	96.3	-31.3	None
40	34984.721 M	49.1	+10.8	+5.1	+0.0	65.0	96.3	-31.3	None
41	35008.051 M	49.1	+10.8	+5.1	+0.0	65.0	96.3	-31.3	None
42	34968.664 M	49.0	+10.8	+5.1	+0.0	64.9	96.3	-31.4	None
43	34840.807 M	48.9	+10.8	+5.1	+0.0	64.8	96.3	-31.5	None
44	34851.108 M	48.8	+10.8	+5.1	+0.0	64.7	96.3	-31.6	None
45	34861.107 M	48.8	+10.8	+5.1	+0.0	64.7	96.3	-31.6	None
46	34936.548 M	48.8	+10.8	+5.1	+0.0	64.7	96.3	-31.6	None
47	34858.077 M	48.7	+10.8	+5.1	+0.0	64.6	96.3	-31.7	None
48	34848.382 M	48.7	+10.8	+5.1	+0.0	64.6	96.3	-31.7	None
49	35125.000 M	48.6	+10.8	+5.2	+0.0	64.6	96.3	-31.7	None
50	34959.877 M	48.7	+10.8	+5.1	+0.0	64.6	96.3	-31.7	None

51	31319.546 M	49.2	+10.6	+4.8	+0.0	64.6	96.3	-31.7	None
52	34781.453 M	48.6	+10.8	+5.1	+0.0	64.5	96.3	-31.8	None
53	34745.392 M	48.6	+10.8	+5.1	+0.0	64.5	96.3	-31.8	None
54	34844.746 M	48.6	+10.8	+5.1	+0.0	64.5	96.3	-31.8	None
55	34973.511 M	48.6	+10.8	+5.1	+0.0	64.5	96.3	-31.8	None
56	34848.988 M	48.6	+10.8	+5.1	+0.0	64.5	96.3	-31.8	None
57	34799.484 M	48.5	+10.8	+5.1	+0.0	64.4	96.3	-31.9	None
58	34695.807 M	48.6	+10.8	+5.0	+0.0	64.4	96.3	-31.9	None
59	34637.207 M	48.5	+10.9	+5.0	+0.0	64.4	96.3	-31.9	None
60	34944.728 M	48.5	+10.8	+5.1	+0.0	64.4	96.3	-31.9	None
61	34933.215 M	48.5	+10.8	+5.1	+0.0	64.4	96.3	-31.9	None
62	34853.229 M	48.5	+10.8	+5.1	+0.0	64.4	96.3	-31.9	None
63	31292.500 M	48.9	+10.6	+4.8	+0.0	64.3	96.3	-32.0	None
64	34871.408 M	48.4	+10.8	+5.1	+0.0	64.3	96.3	-32.0	None
65	34876.861 M	48.4	+10.8	+5.1	+0.0	64.3	96.3	-32.0	None
66	32590.715 M	48.7	+10.8	+4.7	+0.0	64.2	96.3	-32.1	None
67	31531.408 M	48.8	+10.6	+4.7	+0.0	64.1	96.3	-32.2	None

68	32324.762 M	48.6	+10.7	+4.7	+0.0	64.0	96.3	-32.3	None
69	31436.746 M	48.7	+10.6	+4.7	+0.0	64.0	96.3	-32.3	None
70	32491.546 M	48.6	+10.7	+4.7	+0.0	64.0	96.3	-32.3	None
71	32423.931 M	48.6	+10.7	+4.7	+0.0	64.0	96.3	-32.3	None
72	31459.285 M	48.6	+10.6	+4.7	+0.0	63.9	96.3	-32.4	None
73	34384.776 M	47.9	+10.9	+4.8	+0.0	63.6	96.3	-32.7	None
74	34217.992 M	47.7	+10.9	+4.7	+0.0	63.3	96.3	-33.0	None
75	31657.623 M	47.8	+10.7	+4.6	+0.0	63.1	96.3	-33.2	None
76	36938.500 M	57.5	+0.0	+5.0	+0.0	62.5	96.3	-33.8	None
77	37533.250 M	57.6	+0.0	+4.9	+0.0	62.5	96.3	-33.8	None
78	37167.625 M	57.4	+0.0	+5.0	+0.0	62.4	96.3	-33.9	None
79	36831.250 M	57.1	+0.0	+5.1	+0.0	62.2	96.3	-34.1	None
80	36928.750 M	57.2	+0.0	+5.0	+0.0	62.2	96.3	-34.1	None
81	36982.375 M	57.2	+0.0	+5.0	+0.0	62.2	96.3	-34.1	None
82	36558.250 M	56.9	+0.0	+5.0	+0.0	61.9	96.3	-34.4	None
83	37089.625 M	56.9	+0.0	+5.0	+0.0	61.9	96.3	-34.4	None
84	25013.433 M	47.2	+10.4	+4.2	+0.0	61.8	96.3	-34.5	None

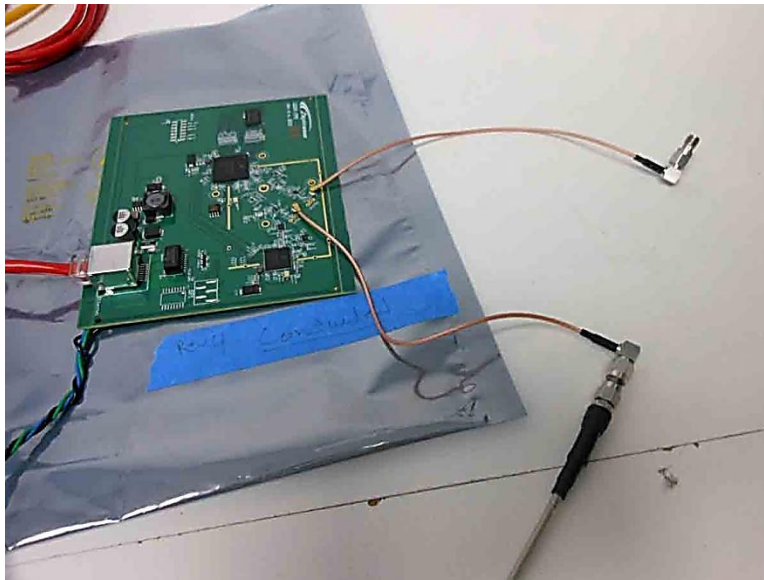
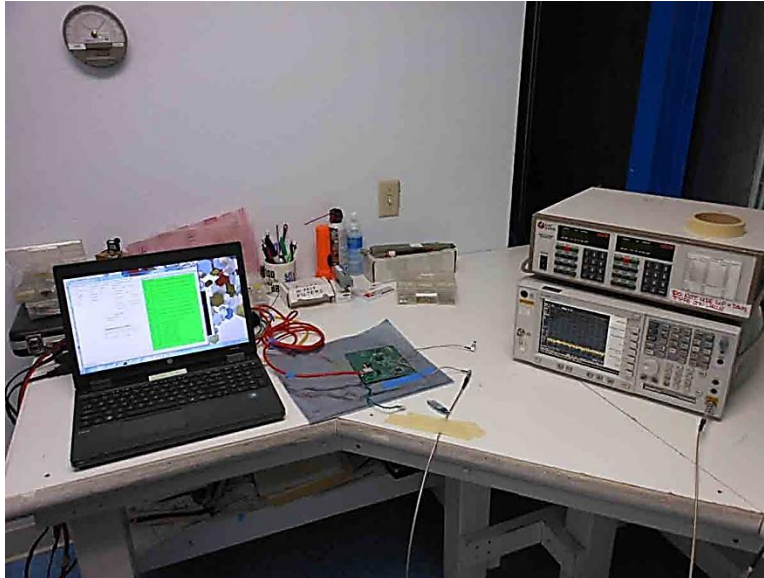
85	25133.000 M	47.1	+10.4	+4.2	+0.0	61.7	96.3	-34.6	None
86	25201.324 M	47.2	+10.4	+4.1	+0.0	61.7	96.3	-34.6	None
87	36641.125 M	56.7	+0.0	+5.0	+0.0	61.7	96.3	-34.6	None
88	24934.861 M	46.9	+10.4	+4.3	+0.0	61.6	96.3	-34.7	None
89	26082.701 M	46.8	+10.4	+4.4	+0.0	61.6	96.3	-34.7	None
90	24890.450 M	46.8	+10.4	+4.3	+0.0	61.5	96.3	-34.8	None
91	37114.000 M	56.5	+0.0	+5.0	+0.0	61.5	96.3	-34.8	None
92	36597.250 M	56.4	+0.0	+5.0	+0.0	61.4	96.3	-34.9	None
93	25112.503 M	46.7	+10.4	+4.2	+0.0	61.3	96.3	-35.0	None
94	25194.491 M	46.8	+10.4	+4.1	+0.0	61.3	96.3	-35.0	None
95	37148.125 M	56.2	+0.0	+5.0	+0.0	61.2	96.3	-35.1	None
96	30841.731 M	45.5	+10.7	+4.9	+0.0	61.1	96.3	-35.2	None
97	24097.894 M	46.2	+10.3	+4.4	+0.0	60.9	96.3	-35.4	None
98	37689.250 M	56.1	+0.0	+4.8	+0.0	60.9	96.3	-35.4	None
99	24791.381 M	46.0	+10.4	+4.4	+0.0	60.8	96.3	-35.5	None
100	26468.642 M	46.0	+10.4	+4.4	+0.0	60.8	96.3	-35.5	None

CKC Laboratories, Inc Date: 6/20/2013 Time: 9:52:56 AM Digital Path WO#: 94341
 Test Lead: None 120V 60Hz Sequence#: 21



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

Test Setup Photos



Bandedge

Test Conditions / Setup

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

Customer: **Digital Path**

Specification: **Bandedge**

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

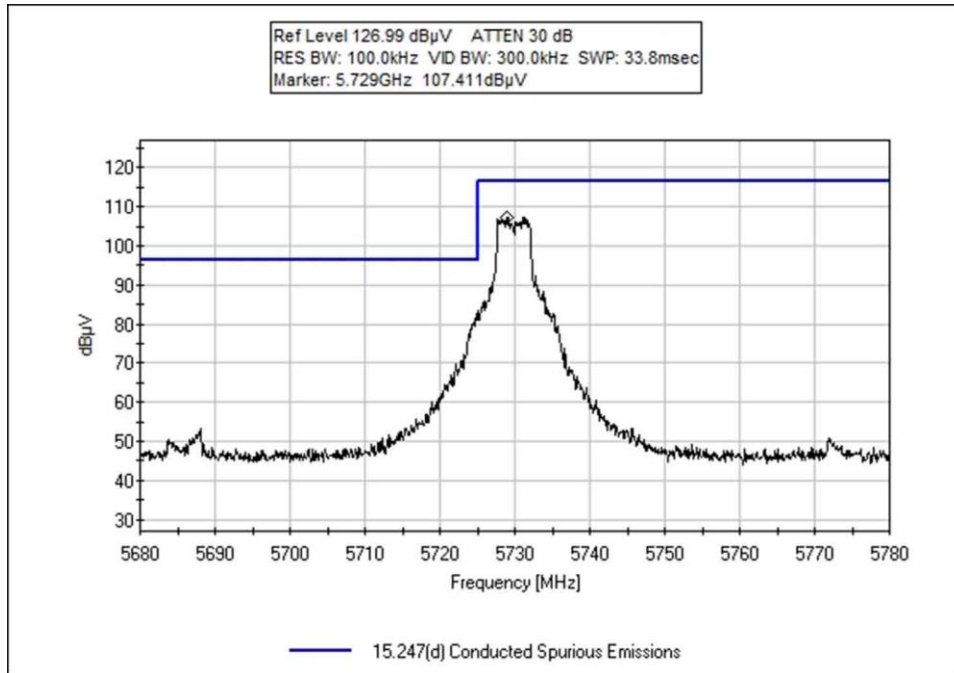
Test Conditions / Notes:

Band edge -Setup
 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

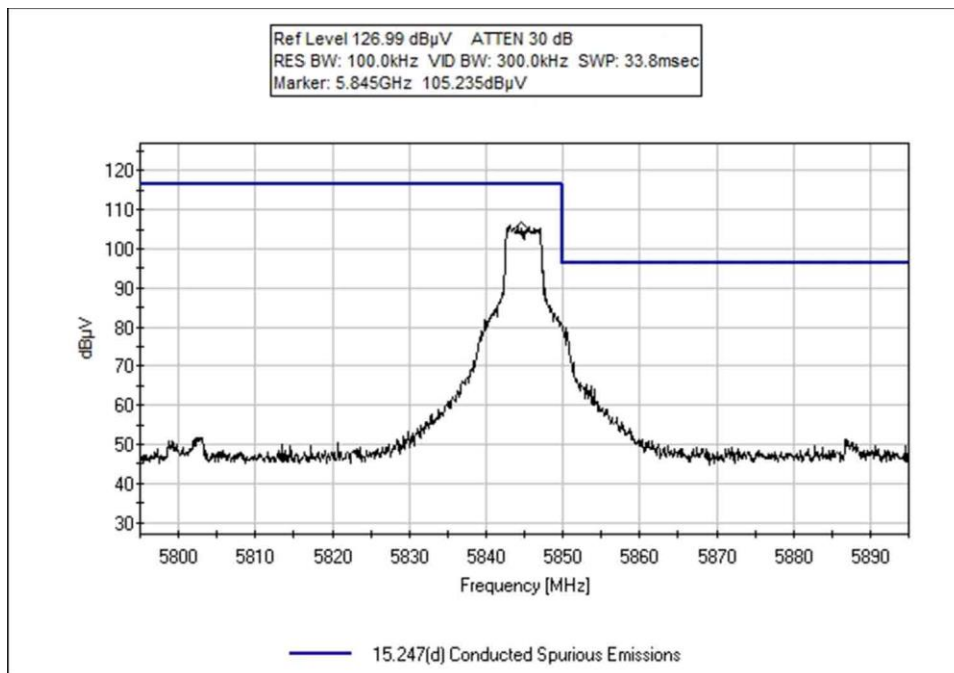
Transmitting operating frequency= 5730-5845 MHz for 5MHz Band
 Transmitting operating frequency= 5735-5840 MHz for 10MHz Band

Channel Span: 5MHz to 10MHz
 2 Chain: Chain 0 and Chain1
 RF out power =25dBm
 The EUT is on the table and connected to the Spectrum Analyzer.

Chain 0 - 5MHz
Test Plots

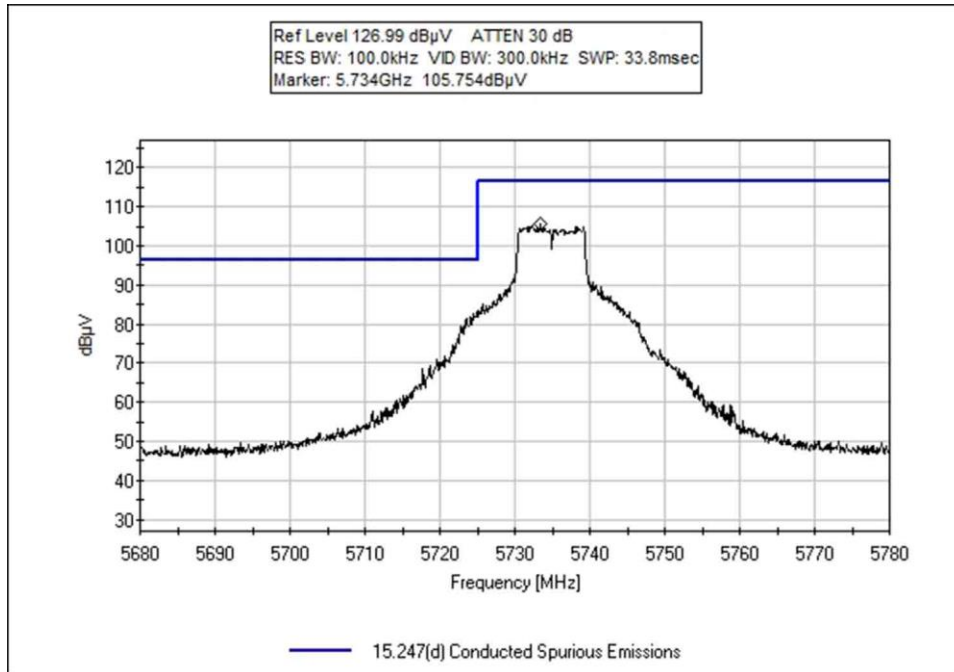


Low Channel 19.5Mbps

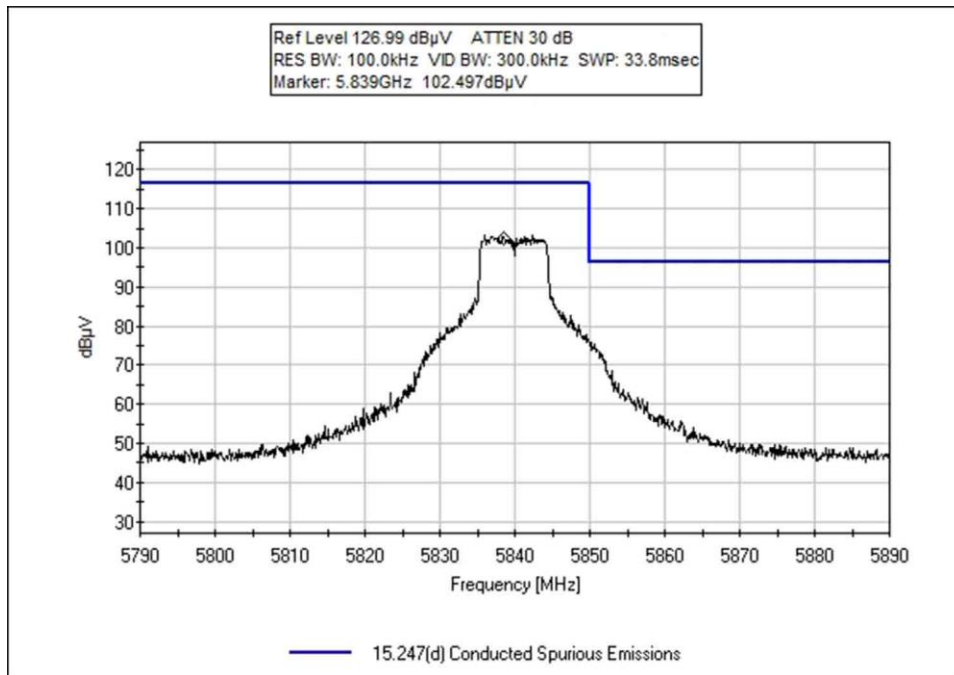


High Channel 19.5Mbps

Chain 0 - 10MHz
Test Plots

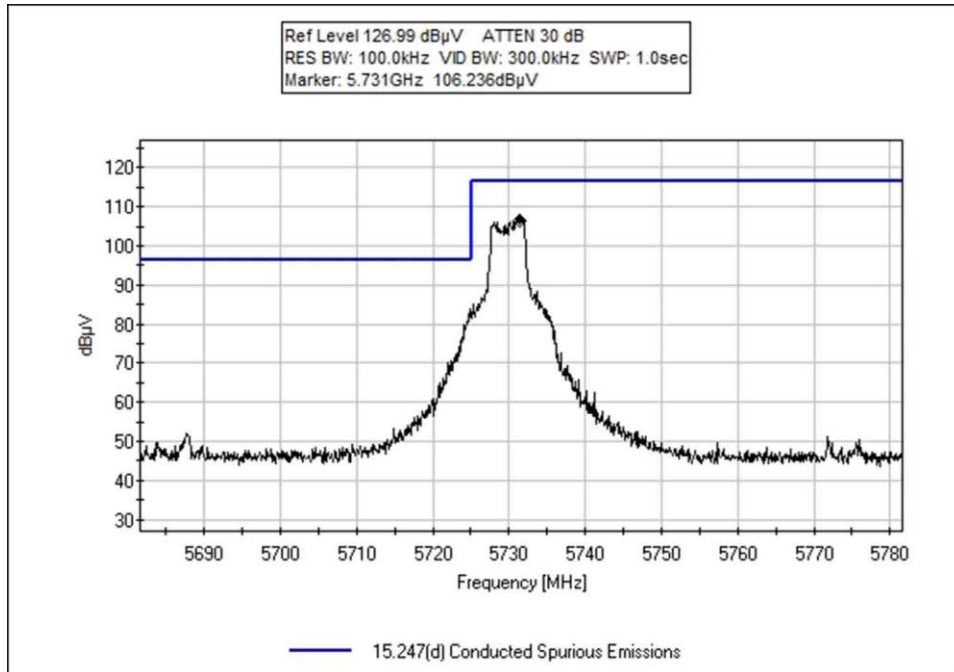


Low Channel 13.0Mbps

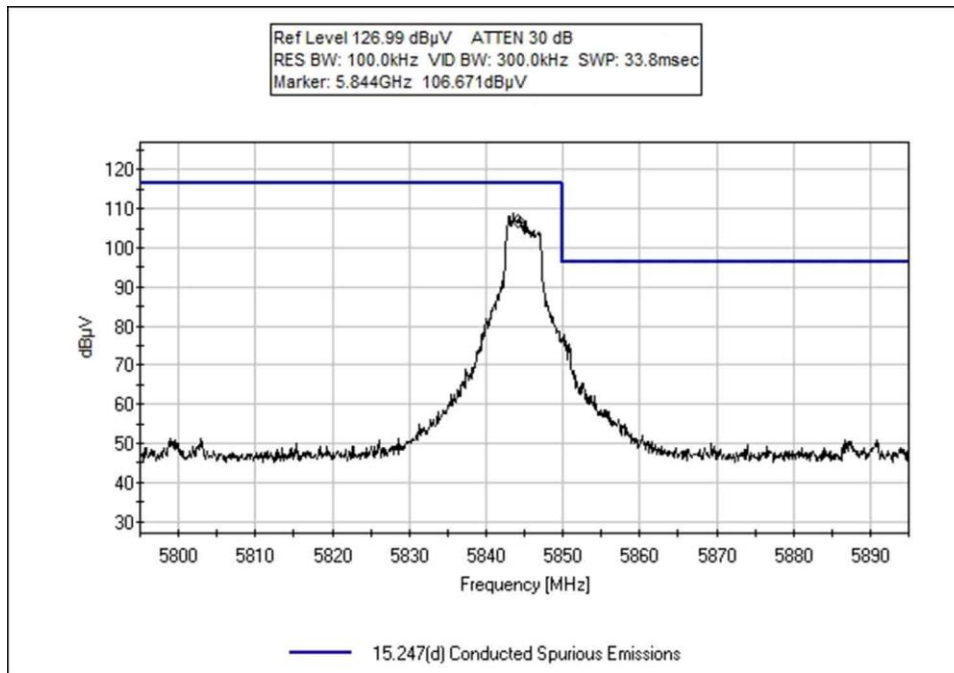


High Channel 13.0Mbps

Chain 1 - 5MHz
Test Plots

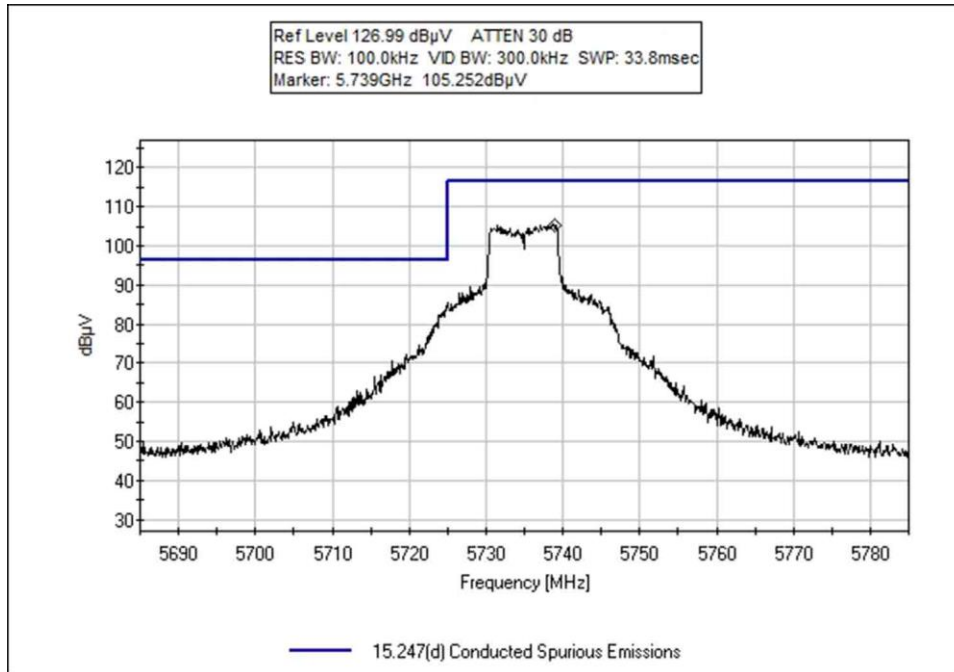


Low Channel 19.5Mbps

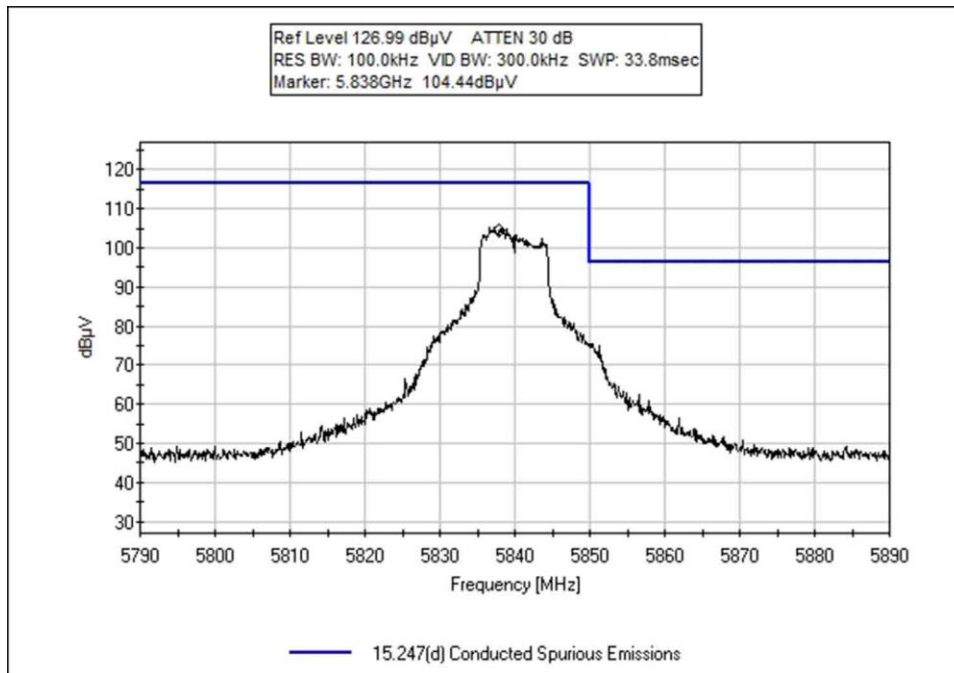


High Channel 19.5Mbps

Chain 1 - 10MHz
Test Plots

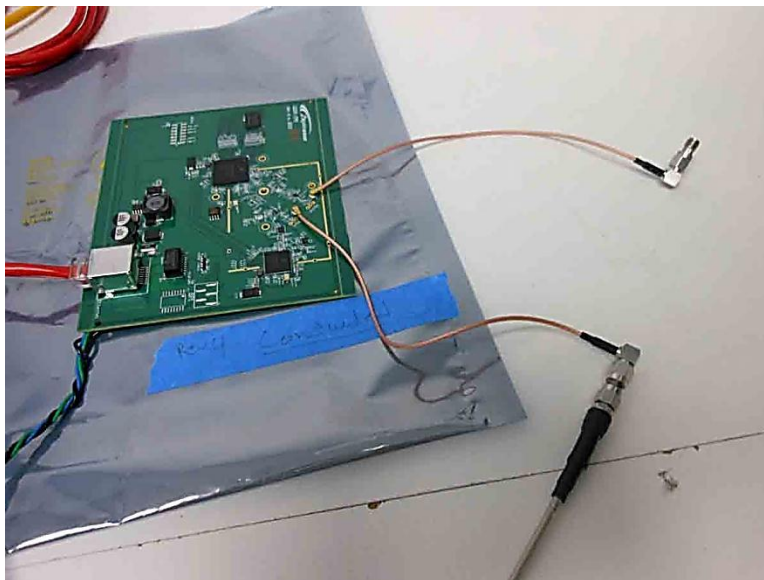
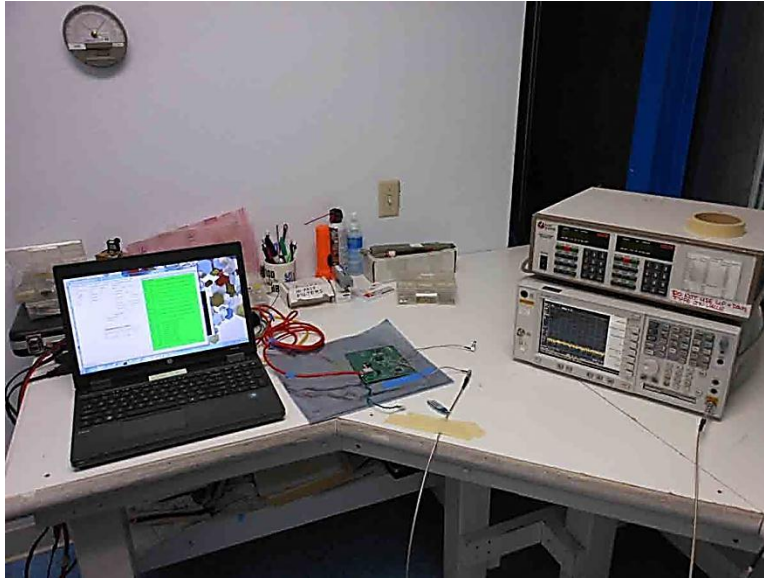


Low Channel 13Mbps



High Channel 13Mbps

Test Setup Photos



15.247(d) Radiated Spurious Emissions

Test Data

Reference Power Measurement in 100kHz: 15.247, 5MHz		
Channel	802.11n (dBm)	
	Chain 0	Chain 1
LO	13.28	13.54
MID	12.28	13.49
HI	12.13	13.48

Maximum Power Input 24 dBm .Worst Case 802.11a data rate is MCS2=19.5Mbps

Reference Power Measurement in 100kHz: 15.247, 10MHz		
Channel	802.11n (dBm)	
	Chain 0	Chain 1
LO	8.57	10.54
MID	8.48	9.71
HI	8.21	9.39

Maximum Power Input 25 dBm .Worst Case 802.11a data rate is MCS1=13Mbps

Reference Level Measurement: 15.247, 5MHz		
Channel	802.11n (dBuV)	
	Chain 0	Chain 1
LO	78.5	78.7
MID	77.5	78.7
HI	77.3	78.7

Maximum Power Input 24 dBm .Worst Case 802.11a data rate is MCS2=19.5Mbps

Reference Level Measurement: 15.247, 10MHz		
Channel	802.11n (dBuV)	
	Chain 0	Chain 1
LO	74.0	75.7
MID	73.7	74.9
HI	73.4	74.6

Maximum Power Input 25 dBm .Worst Case 802.11a data rate is MCS1=13Mbps

The Reference level measurement for Emission is non- restricted frequency bands were made using the methods set out in KDB “558704 D01 DTS Meas Guidance v03r01”, Section 11 Emissions in non-restricted frequency band. NOTE: The Reference Level is the limit line for Radiated Spurious Emission. Choose the worst reference level for the limit line

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

Seq. #	Frequency Range Tested / Test conditions
	5MHz
61	9kHz-30MHz Low Channel
64	9kHz-30MHz Mid Channel
67	9kHz-30MHz High Channel
40	30MHz-1GHz Low Channel
43	30MHz-1GHz Mid Channel
46	30MHz-1GHz High Channel
84	1-40GHz-Low, Middle, High-5MHz-Restricted Band
86	1-40GHz -Low, Middle, High-5MHz-Non Restricted Band
	10MHz
70	9kHz-30MHz Low Channel
73	9kHz-30MHz Mid Channel
76	9kHz-30MHz High Channel
49	30MHz-1GHz Low Channel
52	30MHz-1GHz Mid Channel
55	30MHz-1GHz High Channel
85	1-40GHz-Low, Middle, High-10MHz-Restricted Band
87	1-40GHz -Low, Middle, High-10MHz-Non Restricted Band

Test Data Sheets

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

Customer: **Digital Path**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Radiated Scan** Time: 18:22:15
 Equipment: **GEN6 CPE** Sequence#: 61
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T1	AN00432	Loop Antenna	6502	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

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:

Radiated Spurious Emission
 Frequency Range: 9kHz 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

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz;
 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;
 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,
 1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 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

Antenna Gain=24dBi

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: Low Channel at Span 5MHz
 Data rate =19.5Mbps
 C0 and C1 at the same time
 Adding one ferrite (Steward 28A 2024-0A0) with one pass through on RJ45 Data cables.

Ext Attn: 0 dB

Measurement Data:

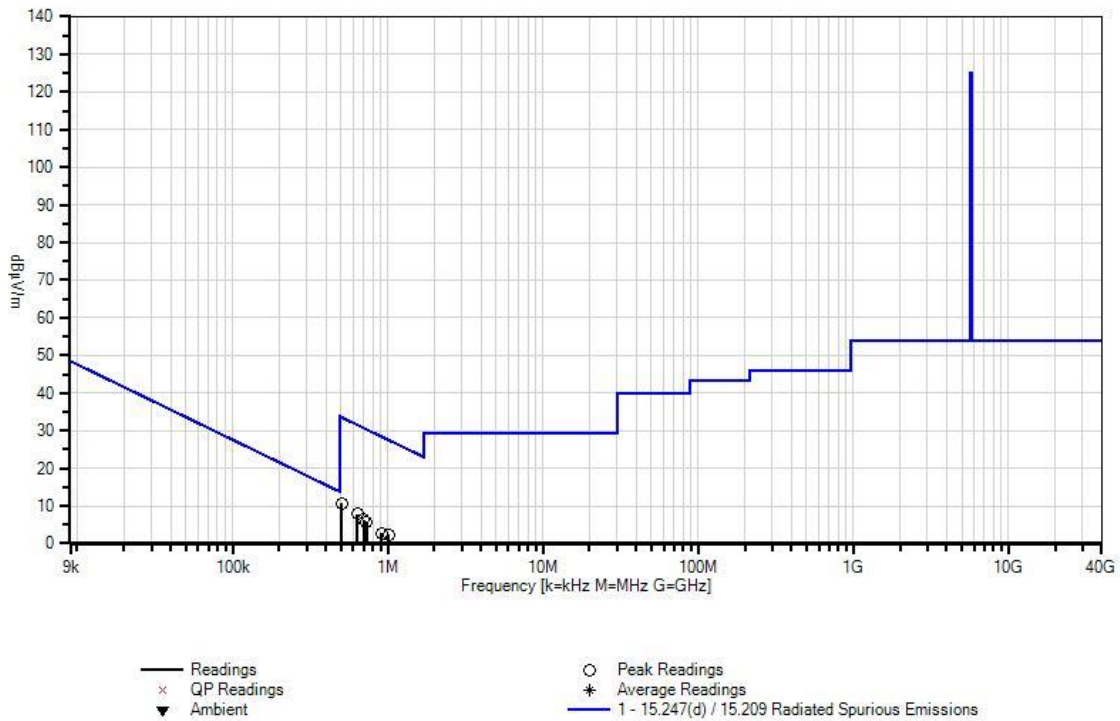
Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	504.332k	40.7	+9.8	+0.1	+0.0	-40.0	10.6	33.6	-23.0	Perpe	
2	634.979k	38.0	+9.8	+0.1	+0.0	-40.0	7.9	31.6	-23.7	Paral	
3	701.293k	36.4	+9.9	+0.1	+0.0	-40.0	6.4	30.7	-24.3	Perpe	

4	733.955k	35.9	+9.7	+0.1	+0.0	-40.0	5.7	30.3	-24.6	Paral
5	1.018M	32.5	+9.7	+0.1	+0.0	-40.0	2.3	27.5	-25.2	Paral
6	911.121k	33.1	+9.5	+0.1	+0.0	-40.0	2.7	28.4	-25.7	Perpe

CKC Laboratories, Inc Date: 6/20/2013 Time: 18:22:15 Digital Path WO#: 94341
 Test Distance: 3 Meters Sequence#: 61



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

Customer: **Digital Path**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Radiated Scan** Time: 18:34:46
 Equipment: **GEN6 CPE** Sequence#: 64
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T1	AN00432	Loop Antenna	6502	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

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:

Radiated Spurious Emission
 Frequency Range: 9kHz 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

9 kHz-150 kHz; RBW=200 Hz, VBW=200 Hz;
 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;
 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,
 1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 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
 Antenna Gain=24dBi

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

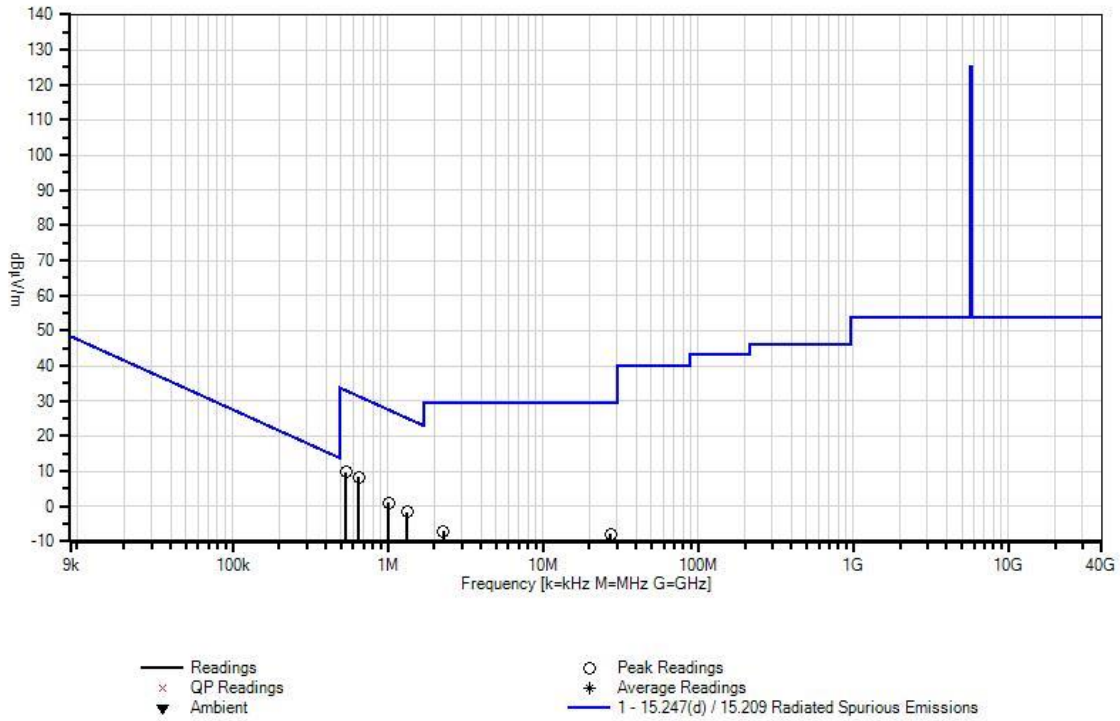
Note: Middle Channel at Span 5MHz
 Data rate =19.5Mbps
 C0 and C1 at the same time
 Adding one ferrite (Steward 28A 2024-0A0) with one pass through on RJ45 Data cables

Ext Attn: 0 dB

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	651.768k	38.4	+9.9	+0.1	+0.0	-40.0	8.4	31.3	-22.9	Paral
2	538.973k	39.8	+9.8	+0.1	+0.0	-40.0	9.7	33.0	-23.3	Perpe
3	1.012M	31.3	+9.7	+0.1	+0.0	-40.0	1.1	27.5	-26.4	Perpe
4	1.335M	28.6	+9.8	+0.1	+0.0	-40.0	-1.5	25.1	-26.6	Paral
5	2.283M	23.0	+9.9	+0.1	+0.0	-40.0	-7.0	29.5	-36.5	Perpe
6	27.335M	25.6	+5.9	+0.5	+0.1	-40.0	-7.9	29.5	-37.4	Paral

CKC Laboratories, Inc Date: 6/20/2013 Time: 18:34:46 Digital Path WO#: 94341
Test Distance: 3 Meters Sequence#: 64



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

Customer: **Digital Path**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Radiated Scan** Time: 18:46:35
 Equipment: **GEN6 CPE** Sequence#: 67
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T1	AN00432	Loop Antenna	6502	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

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:

Radiated Spurious Emission
 Frequency Range: 9kHz 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

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz;
 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;
 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,
 1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 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

Antenna Gain=24dBi

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.

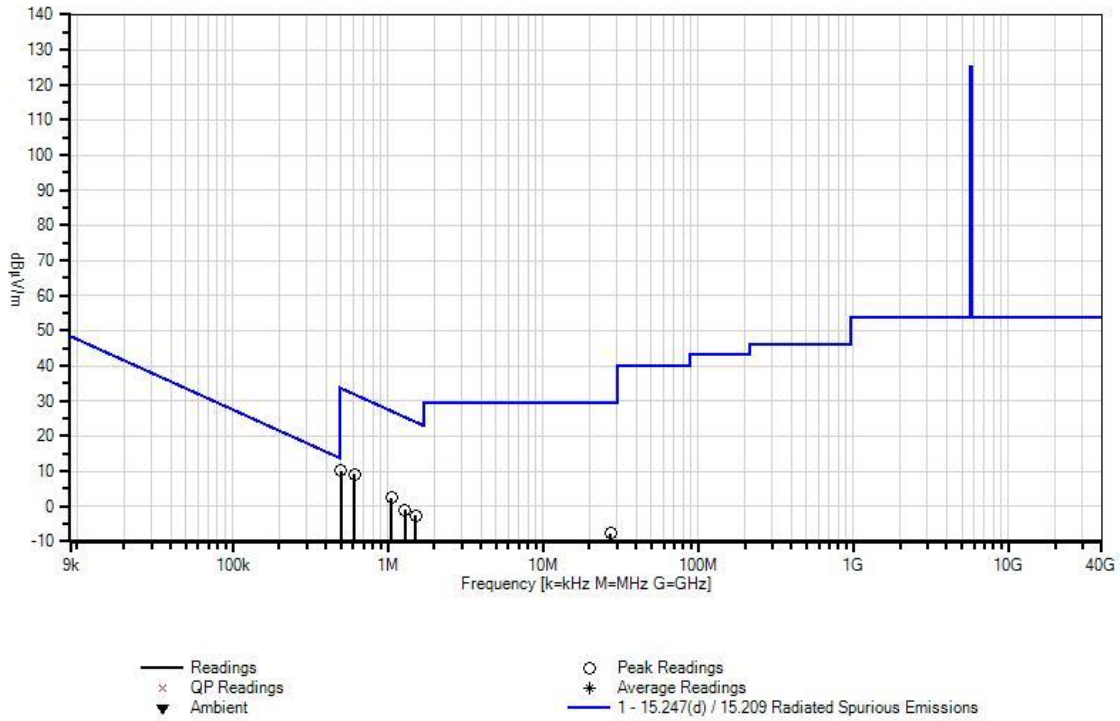
The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is active.
 Vertical polarity of the antenna is connected to Chain 1
 Horizontal polarity of the antenna is connected to Chain 0

Note: High Channel at Span 5MHz
 Data rate =19.5Mbps
 C0 and C1 at the same time
 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 Distance: 3 Meters					
#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	607.864k	39.2	+9.8	+0.1	+0.0	-40.0	9.1	31.9	-22.8	Paral	
2	499.147k	40.2	+9.8	+0.1	+0.0	-40.0	10.1	33.6	-23.5	Perpe	
3	1.055M	32.6	+9.7	+0.1	+0.0	-40.0	2.4	27.2	-24.8	Perpe	
4	1.296M	29.2	+9.8	+0.1	+0.0	-40.0	-0.9	25.4	-26.3	Paral	
5	1.515M	27.4	+9.8	+0.1	+0.0	-40.0	-2.7	24.0	-26.7	Perpe	
6	27.335M	25.8	+5.9	+0.5	+0.1	-40.0	-7.7	29.5	-37.2	Paral	

CKC Laboratories, Inc Date: 6/20/2013 Time: 18:46:35 Digital Path WO#: 94341
Test Distance: 3 Meters Sequence#: 67



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

Customer: **Digital Path**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Radiated Scan** Time: 15:13:55
 Equipment: **GEN6 CPE** Sequence#: 40
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamp	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	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:

Radiated Spurious Emission
 Frequency Range: 30MHz 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
 MHz

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz;
 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;
 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,
 1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 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

Antenna Gain=24dBi

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

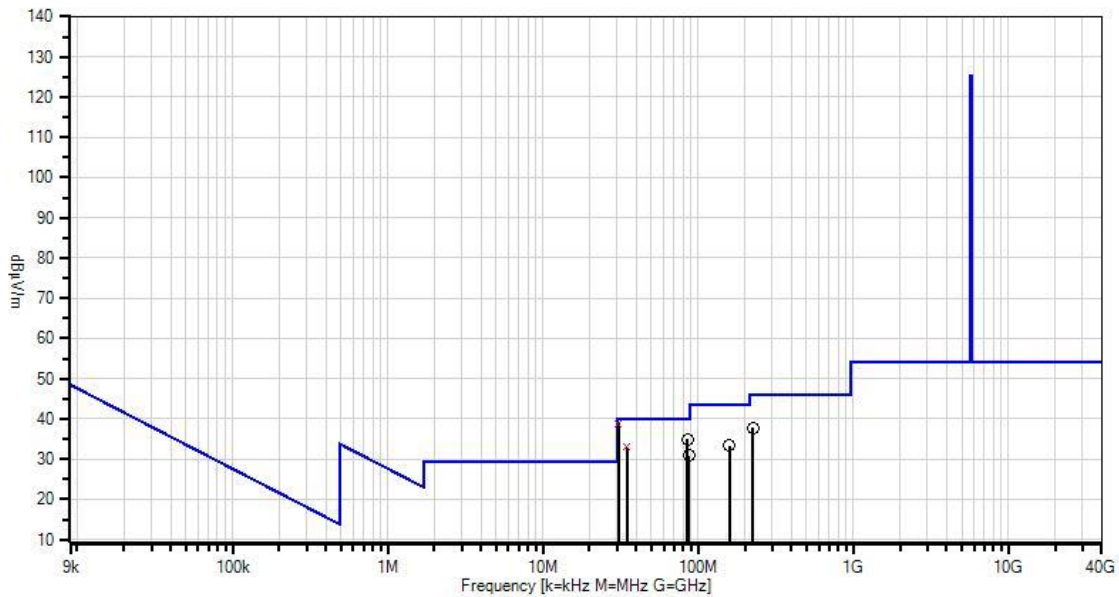
Note: Low Channel at Span 5MHz
 Data rate =19.5 Mbps
 C0 and C1 at the same time
 Adding one ferrite (Steward 28A 2024-0A0) with one pass through on RJ45 Data cables.

Ext Attn: 0 dB

Measurement Data:		Reading listed by margin.					Test Distance: 3 Meters				
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dB μ V	T5 dB	dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	30.615M	47.0	-27.1	+18.1	+0.5	+0.2	+0.0	38.8	40.0	-1.2	Vert
	QP		+0.1								
^	30.615M	49.2	-27.1	+18.1	+0.5	+0.2	+0.0	41.0	40.0	+1.0	Vert
			+0.1								
^	30.615M	49.0	-27.1	+18.1	+0.5	+0.2	+0.0	40.8	40.0	+0.8	Vert
			+0.1								
4	85.331M	52.3	-27.0	+8.3	+0.9	+0.1	+0.0	34.9	40.0	-5.1	Vert
			+0.3								
5	34.633M	43.3	-27.0	+16.0	+0.5	+0.1	+0.0	33.0	40.0	-7.0	Vert
	QP		+0.1								
^	34.633M	46.5	-27.0	+16.0	+0.5	+0.1	+0.0	36.2	40.0	-3.8	Vert
			+0.1								

^	34.633M	46.0	-27.0 +0.1	+16.0	+0.5	+0.1	+0.0	35.7	40.0	-4.3	Vert
8	224.959M	53.0	-27.0 +0.4	+9.5	+1.5	+0.3	+0.0	37.7	46.0	-8.3	Horiz
9	87.455M	48.0	-27.0 +0.3	+8.6	+0.9	+0.1	+0.0	30.9	40.0	-9.1	Horiz
10	159.958M	48.2	-27.0 +0.4	+10.4	+1.2	+0.2	+0.0	33.4	43.5	-10.1	Horiz

CKC Laboratories, Inc Date: 6/20/2013 Time: 15:13:55 Digital Path WO#: 94341
 Test Distance: 3 Meters Sequence#: 40



— Readings
 × QP Readings
 ▼ Ambient
 ○ Peak Readings
 * Average Readings
 — 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

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

Customer: **Digital Path**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Radiated Scan** Time: 15:41:16
 Equipment: **GEN6 CPE** Sequence#: 43
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamp	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	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:

Radiated Spurious Emission
 Frequency Range: 30MHz 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
 MHz

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz;
 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;
 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,
 1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 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

Antenna Gain=24dBi

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: Middle Channel at Span 5MHz
 Data rate =19.5 Mbps
 C0 and C1 at the same time
 Adding one ferrite (Steward 28A 2024-0A0) with one pass through on RJ45 Data cables

Ext Attn: 0 dB

Measurement Data:

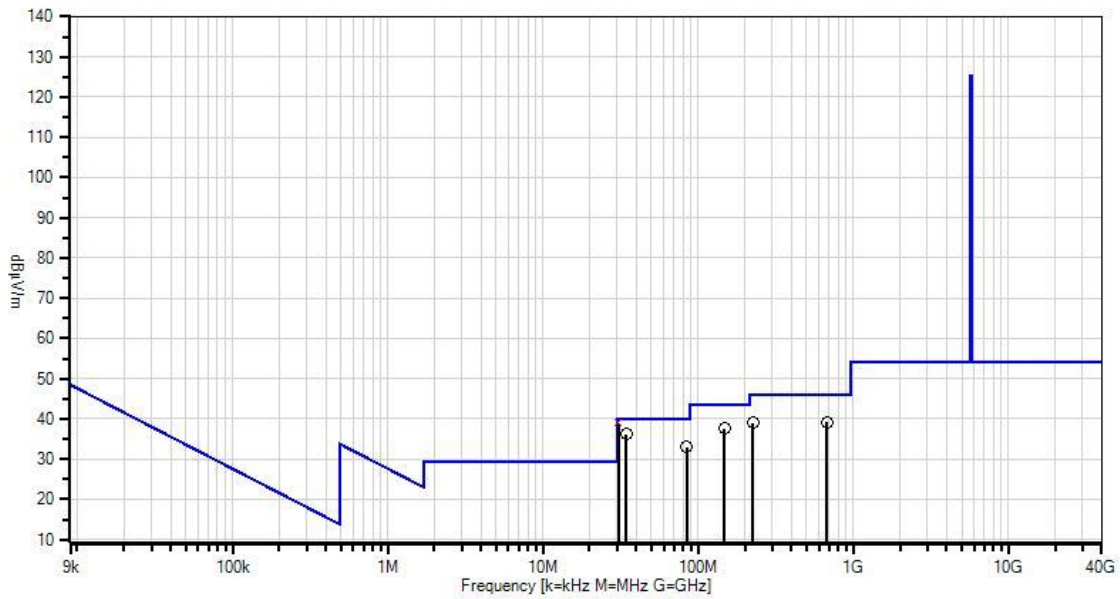
Reading listed by margin.

Test Distance: 3 Meters

#	Freq MHz	Rdng dBμV	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	30.631M	47.3	-27.1 +0.1	+18.0	+0.5	+0.2	+0.0	39.0	40.0	-1.0	Vert
^	30.631M	48.9	-27.1 +0.1	+18.0	+0.5	+0.2	+0.0	40.6	40.0	+0.6	Vert
^	30.631M	48.6	-27.1 +0.1	+18.0	+0.5	+0.2	+0.0	40.3	40.0	+0.3	Vert
4	34.629M	46.5	-27.0 +0.1	+16.0	+0.5	+0.1	+0.0	36.2	40.0	-3.8	Vert
5	148.127M	51.7	-26.9 +0.3	+11.0	+1.2	+0.3	+0.0	37.6	43.5	-5.9	Horiz

6	674.812M	41.5	-26.8 +0.7	+20.1	+2.9	+0.7	+0.0	39.1	46.0	-6.9	Vert
7	224.959M	54.3	-27.0 +0.4	+9.5	+1.5	+0.3	+0.0	39.0	46.0	-7.0	Horiz
8	84.623M	50.3	-27.0 +0.3	+8.3	+0.9	+0.1	+0.0	32.9	40.0	-7.1	Horiz

CKC Laboratories, Inc Date: 6/20/2013 Time: 15:41:16 Digital Path WO#: 94341
 Test Distance: 3 Meters Sequence#: 43



— Readings
 × QP Readings
 ▼ Ambient
 ○ Peak Readings
 * Average Readings
 — 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

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

Customer: **Digital Path**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Radiated Scan** Time: 16:04:39
 Equipment: **GEN6 CPE** Sequence#: 46
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamp	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	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:

Radiated Spurious Emission
 Frequency Range: 30MHz 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

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz;
 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;
 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,
 1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 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

Antenna Gain=24dBi

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

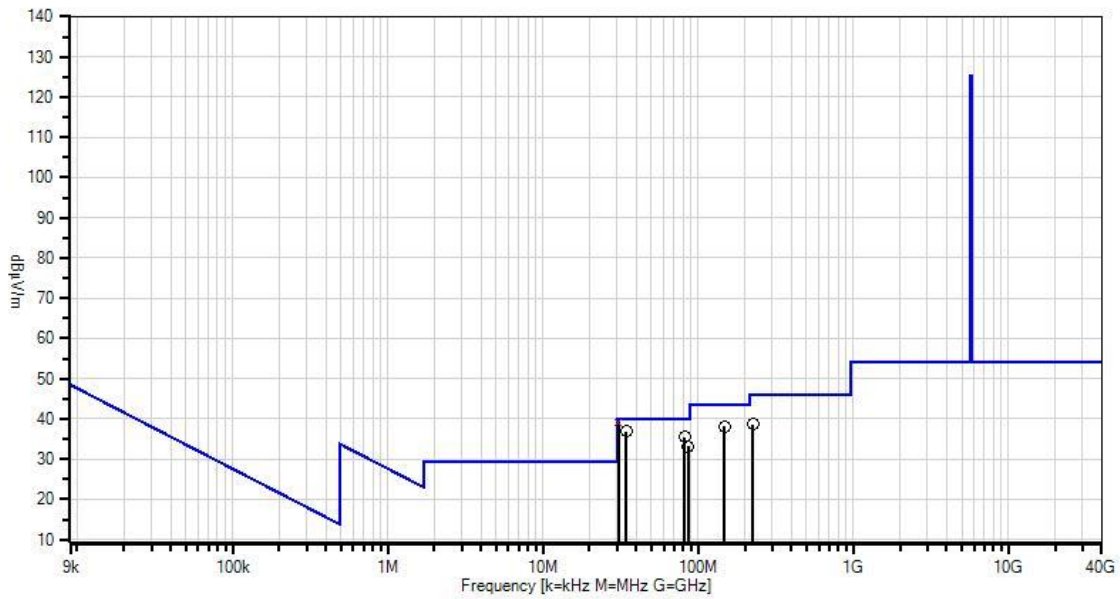
Note: High Channel at Span 5MHz
 Data rate =19.5 Mbps
 C0 and C1 at the same time
 Adding one ferrite (Steward 28A 2024-0A0) with one pass through on RJ45 Data cables

Ext Attn: 0 dB

Measurement Data:		Reading listed by margin.					Test Distance: 3 Meters				
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dB μ V	T5				Table	dB μ V/m	dB μ V/m	dB	Ant
1	30.618M	47.3	-27.1	+18.1	+0.5	+0.2	+0.0	39.1	40.0	-0.9	Vert
	QP		+0.1								
^	30.618M	49.3	-27.1	+18.1	+0.5	+0.2	+0.0	41.1	40.0	+1.1	Vert
			+0.1								
^	30.618M	49.1	-27.1	+18.1	+0.5	+0.2	+0.0	40.9	40.0	+0.9	Vert
			+0.1								
4	34.629M	47.2	-27.0	+16.0	+0.5	+0.1	+0.0	36.9	40.0	-3.1	Vert
			+0.1								
5	81.489M	53.3	-27.0	+7.9	+0.8	+0.1	+0.0	35.4	40.0	-4.6	Vert
			+0.3								

6	148.127M	52.3	-26.9 +0.3	+11.0	+1.2	+0.3	+0.0	38.2	43.5	-5.3	Horiz
7	86.140M	50.3	-27.0 +0.3	+8.5	+0.9	+0.1	+0.0	33.1	40.0	-6.9	Horiz
8	224.959M	53.9	-27.0 +0.4	+9.5	+1.5	+0.3	+0.0	38.6	46.0	-7.4	Horiz

CKC Laboratories, Inc Date: 6/20/2013 Time: 16:04:39 Digital Path WO#: 94341
 Test Distance: 3 Meters Sequence#: 46



— Readings
 × QP Readings
 ▼ Ambient
 ○ Peak Readings
 * Average Readings
 — 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

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

Customer: **Digital Path**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94341** Date: 6/23/2013
 Test Type: **Radiated Scan** Time: 09:22:27
 Equipment: **GEN6 CPE** Sequence#: 84
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02157	Horn Antenna-ANSI C63.5	3115	1/23/2013	1/23/2015
	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	AN03114	Preamp	AMF-7D-00101800-30-10P	4/11/2013	4/11/2015
	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
	AN03015	Cable	32022-2-29094K-24TC	5/6/2013	5/6/2015
T1	ANANT-AN02693-20130221	Active Horn Antenna	AMFW-5F-18002650-20-10P	2/21/2013	2/21/2015
T2	AN03143	Cable	32022-29094K-144TC	8/30/2011	8/30/2013
	ANP00928	Cable	various	2/10/2012	2/10/2014
T3	ANP06138	Cable	32022-29094K-29094K-72TC	9/1/2011	9/1/2013
T4	AN02694	Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	2/4/2013	2/4/2015
T5	ANP00929	Cable	various	2/16/2012	2/16/2014
	AN02695	Active Horn Antenna	AMFW-5F-260400-33-8P	12/18/2012	12/18/2014
	ANP00930	Cable	various	2/16/2012	2/16/2014

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:

Radiated Spurious Emission
Frequency Range: 1000MHz 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
MHz

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz;
150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;
30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,
1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 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 =24dBm

Antenna Gain=24dBi

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: Span 5MHz
Data rate =19.5 Mbps
C0 and C1 at the same time
Low, Middle and High Channel
Adding one ferrite (Steward 28A 2024-0A0) with one pass through on RJ45 Data cables.
Scans were performed with the RBW reduced as needed. Data all taken at the proper RBW setting. Above 11GHz, hand scan the unit at a 1 meter distance to determine if there are any signals. Any signals found are hand maximized at a 1 meter distance to ensure the maximum signal is found.

Ext Attn: 0 dB

Measurement Data:

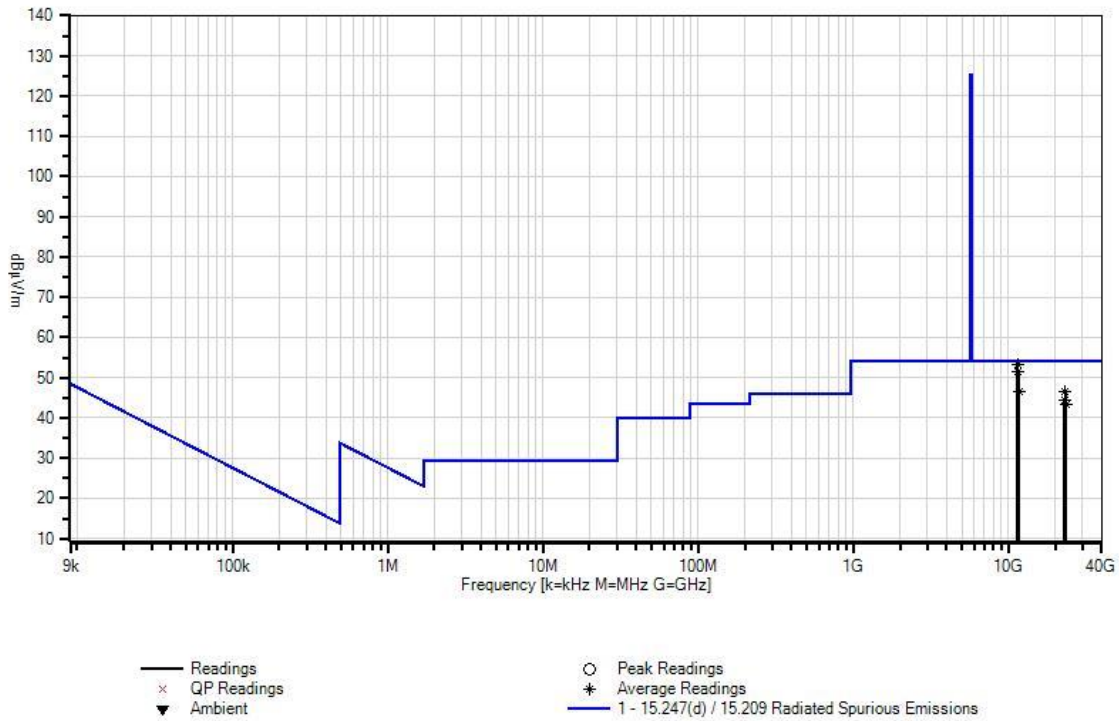
Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dB μ V	T1 T5 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	11461.417 M Ave	71.7	-13.8 +0.0	+4.8	+0.0	+0.0	-9.5	53.2	54.0	-0.8	Horiz
									Low Channel- 24dBm- Restricted Band		
^	11461.417 M	86.4	-13.8 +0.0	+4.8	+0.0	+0.0	-9.5	67.9	54.0	+13.9	Horiz
									Low Channel- 24dBm- Restricted Band		
3	11571.980 M Ave	70.3	-14.0 +0.0	+4.8	+0.0	+0.0	-9.5	51.6	54.0	-2.4	Horiz
									Middle Channel- 24dBm output- Restricted Band		
^	11571.980 M	83.1	-14.0 +0.0	+4.8	+0.0	+0.0	-9.5	64.4	54.0	+10.4	Horiz
									Middle Channel- 24dBm output- Restricted Band		
5	23141.409 M Ave	60.8	+0.0 +2.9	+7.0	+3.3	-17.8	-9.5	46.7	54.0	-7.3	Horiz
									Middle Channel- 24dBm output- Restricted Band		
^	23141.409 M	77.7	+0.0 +2.9	+7.0	+3.3	-17.8	-9.5	63.6	54.0	+9.6	Horiz
									Middle Channel- 24dBm output- Restricted Band		
7	11690.390 M Ave	65.4	-14.2 +0.0	+4.8	+0.0	+0.0	-9.5	46.5	54.0	-7.5	Horiz
									High Channel- 24dBm output- Restricted Band		
^	11690.390 M	82.2	-14.2 +0.0	+4.8	+0.0	+0.0	-9.5	63.3	54.0	+9.3	Horiz
									High Channel- 24dBm output- Restricted Band		
9	22916.198 M Ave	58.4	+0.0 +2.9	+7.1	+3.4	-17.8	-9.5	44.5	54.0	-9.5	Horiz
									Low Channel- 24dBm output- Restricted Band		

^	22916.198	72.7	+0.0	+7.1	+3.4	-17.8	-9.5	58.8	54.0	+4.8	Horiz
	M		+2.9						Low Channel- 24dBm output- Restricted Band		
11	23380.098	57.4	+0.0	+7.0	+3.3	-17.8	-9.5	43.3	54.0	-10.7	Horiz
	M	Ave	+2.9						High Channel- 24dBm-Restricted Band		
^	23380.098	75.4	+0.0	+7.0	+3.3	-17.8	-9.5	61.3	54.0	+7.3	Horiz
	M		+2.9						High Channel- 24dBm-Restricted Band		

CKC Laboratories, Inc Date: 6/23/2013 Time: 09:22:27 Digital Path WO#: 94341
 Test Distance: 1 Meter Sequence#: 84





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

Customer: **Digital Path**
 Specification: **15.247(d) Radiated Spurious Emissions-Non Restricted Band**
 Work Order #: **94341** Date: 6/24/2013
 Test Type: **Radiated Scan** Time: 09:30:26
 Equipment: **GEN6 CPE** Sequence#: 86
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02157	Horn Antenna-ANSI C63.5	3115	1/23/2013	1/23/2015
	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	AN03114	Preamp	AMF-7D-00101800-30-10P	4/11/2013	4/11/2015
	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
	AN03015	Cable	32022-2-29094K-24TC	5/6/2013	5/6/2015
T1	ANANT-AN02693-20130221	Active Horn Antenna	AMFW-5F-18002650-20-10P	2/21/2013	2/21/2015
T2	AN03143	Cable	32022-29094K-144TC	8/30/2011	8/30/2013
T3	ANP00928	Cable	various	2/10/2012	2/10/2014
T4	ANP06138	Cable	32022-29094K-29094K-72TC	9/1/2011	9/1/2013
	AN02694	Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	2/4/2013	2/4/2015
	ANP00929	Cable	various	2/16/2012	2/16/2014
	AN02695	Active Horn Antenna	AMFW-5F-260400-33-8P	12/18/2012	12/18/2014
	ANP00930	Cable	various	2/16/2012	2/16/2014

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:

Radiated Spurious Emission
Frequency Range: 1000MHz 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
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 =24dBm

Antenna Gain=24dBi

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: Span 5MHz
Data rate =19.5 Mbps
C0 and C1 at the same time
Low, Middle and High Channel
Adding one ferrite (Steward 28A 2024-0A0) with one pass through on RJ45 Data cables.
Scans were performed with the RBW reduced as needed. Data all taken at the proper RBW setting. Above 11GHz, hand scan the unit at a 1 meter distance to determine if there are any signals. Any signals found are hand maximized at a 1 meter distance to ensure the maximum signal is found.

Ext Attn: 0 dB

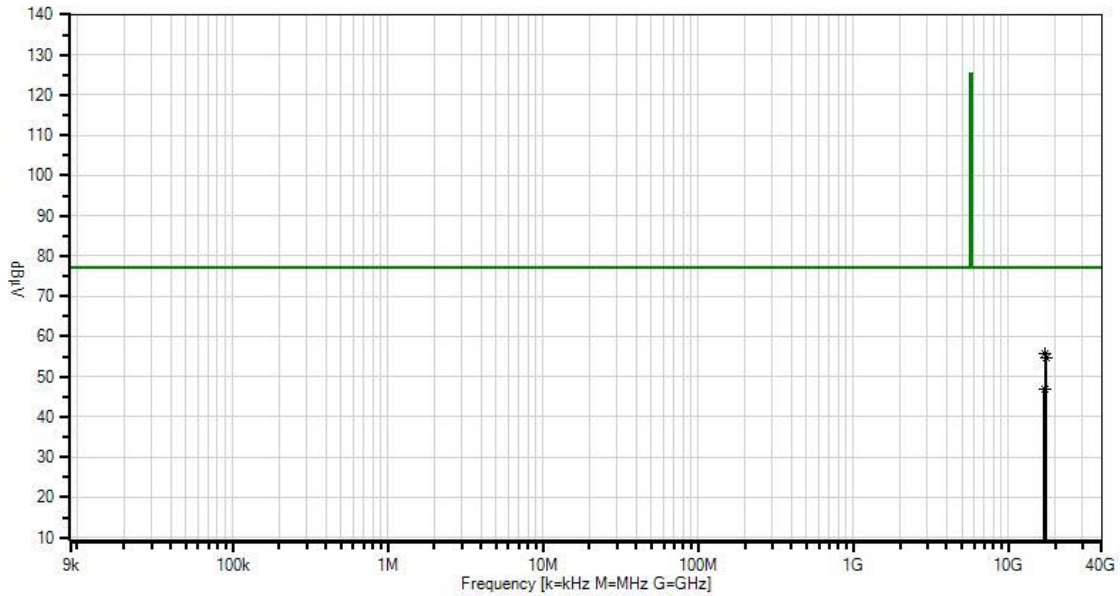
Measurement Data:

Reading listed by margin.

Test Distance: 1 Meter

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V	Spec dB μ V	Margin dB	Polar Ant
1	17352.690 M Ave	70.1	-14.6	+6.0	+0.8	+2.9	-9.5	55.7	77.3	-21.6	Vert
									Middle Channel with 24dBm output- Not in Restricted Band		
^	17352.690 M	82.2	-14.6	+6.0	+0.8	+2.9	-9.5	67.8	77.3	-9.5	Vert
									Middle Channel with 24dBm output- Not in Restricted Band		
3	17533.919 M Ave	68.7	-14.2	+6.1	+0.8	+2.9	-9.5	54.8	77.3	-22.5	Vert
									High Channel with 24dBm output- Not in Restricted Band		
^	17533.919 M	80.3	-14.2	+6.1	+0.8	+2.9	-9.5	66.4	77.3	-10.9	Vert
									High Channel with 24dBm output-Not in Restricted Band		
5	17187.600 M Ave	61.4	-14.8	+6.0	+0.8	+2.9	-9.5	46.8	77.3	-30.5	Horiz
									Low Channel with 24dBm output. Not in Restricted Band		
^	17187.600 M	75.7	-14.8	+6.0	+0.8	+2.9	-9.5	61.1	77.3	-16.2	Horiz
									Low Channel with 24dBm output. Not in Restricted Band		

CKC Laboratories, Inc Date: 6/24/2013 Time: 09:30:26 Digital Path WO#: 94341
 Test Distance: 1 Meter Sequence#: 86



- Readings
- × QP Readings
- ▼ Ambient
- Peak Readings
- * Average Readings
- 1 - 15.247(d) Radiated Spurious Emissions-Non Restricted Band

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

Customer: **Digital Path**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Radiated Scan** Time: 19:01:26
 Equipment: **GEN6 CPE** Sequence#: 70
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T1	AN00432	Loop Antenna	6502	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

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:

Radiated Spurious Emission
 Frequency Range: 9kHz 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
 MHz

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz;
 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;
 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,
 1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 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

Antenna Gain=24dBi

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.

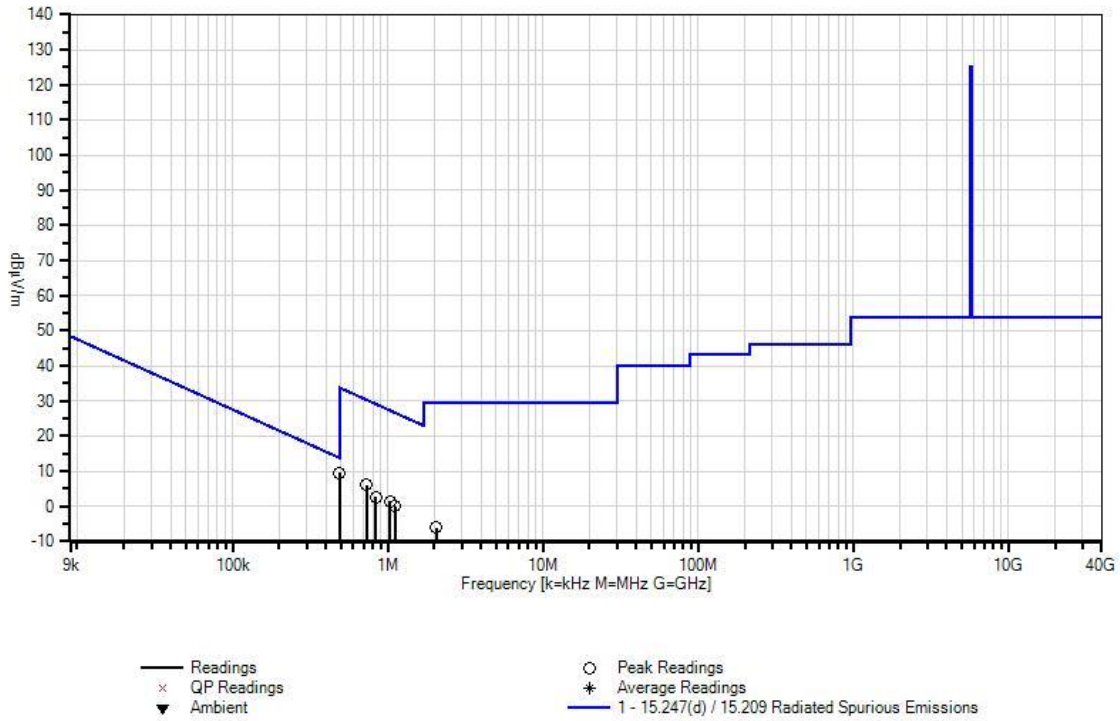
The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is active.
 Vertical polarity of the antenna is connected to Chain 1
 Horizontal polarity of the antenna is connected to Chain 0

Note: Low Channel at Span 10MHz
 Data rate =13.0 Mbps
 C0 and C1 at the same time
 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 Distance: 3 Meters					
#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	490.784k	39.7	+9.8	+0.1	+0.0		-40.0	9.6	33.8	-24.2	Paral
2	729.124k	36.3	+9.7	+0.1	+0.0		-40.0	6.1	30.4	-24.3	Perpe
3	1.034M	31.6	+9.7	+0.1	+0.0		-40.0	1.4	27.3	-25.9	Paral
4	839.932k	33.1	+9.4	+0.1	+0.0		-40.0	2.6	29.1	-26.5	Paral
5	1.114M	30.2	+9.7	+0.1	+0.0		-40.0	0.0	26.7	-26.7	Perpe
6	2.050M	23.9	+9.9	+0.1	+0.0		-40.0	-6.1	29.5	-35.6	Perpe

CKC Laboratories, Inc Date: 6/20/2013 Time: 19:01:26 Digital Path WO#: 94341
 Test Distance: 3 Meters Sequence#: 70



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

Customer: **Digital Path**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Radiated Scan** Time: 19:10:53
 Equipment: **GEN6 CPE** Sequence#: 73
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T1	AN00432	Loop Antenna	6502	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

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:

Radiated Spurious Emission
 Frequency Range: 9kHz 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
 MHz

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz;
 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;
 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,
 1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 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

Antenna Gain=24dBi

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.

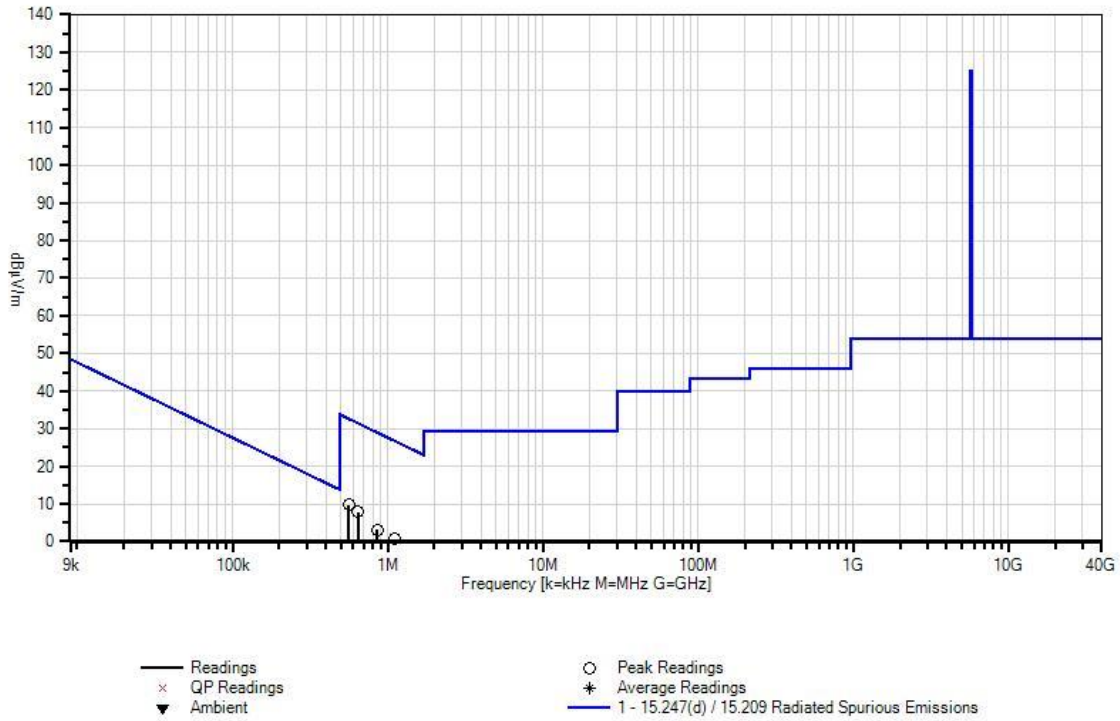
The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is active.
 Vertical polarity of the antenna is connected to Chain 1
 Horizontal polarity of the antenna is connected to Chain 0

Note: Middle Channel at Span 10MHz
 Data rate =13.0 Mbps
 C0 and C1 at the same time
 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 Distance: 3 Meters					
#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	563.959k	39.8	+9.8	+0.1	+0.0	-40.0	9.7	32.6	-22.9	Perpe	
2	641.315k	37.9	+9.8	+0.1	+0.0	-40.0	7.8	31.5	-23.7	Paral	
3	856.657k	33.5	+9.5	+0.1	+0.0	-40.0	3.1	29.0	-25.9	Paral	
4	1.099M	30.9	+9.7	+0.1	+0.0	-40.0	0.7	26.8	-26.1	Perpe	
5	1.306M	29.2	+9.8	+0.1	+0.0	-40.0	-0.9	25.3	-26.2	Perpe	
6	1.143M	29.4	+9.7	+0.1	+0.0	-40.0	-0.8	26.5	-27.3	Paral	

CKC Laboratories, Inc Date: 6/20/2013 Time: 19:10:53 Digital Path WO#: 94341
 Test Distance: 3 Meters Sequence#: 73



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

Customer: **Digital Path**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Radiated Scan** Time: 19:22:59
 Equipment: **GEN6 CPE** Sequence#: 76
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
T1	AN00432	Loop Antenna	6502	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

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:

Radiated Spurious Emission
 Frequency Range: 9kHz 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
 MHz

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz;
 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;
 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,
 1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 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

Antenna Gain=24dBi

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.

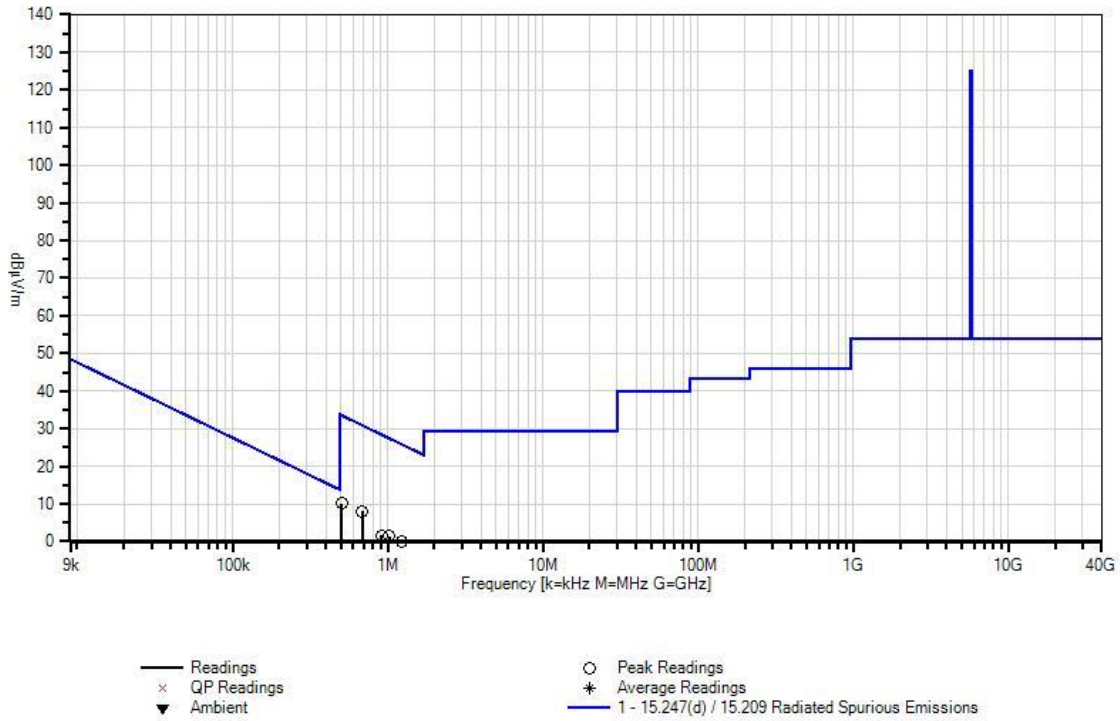
The Remote laptop is running test software to exercise the intended functionalities. Receiver circuit is active.
 Vertical polarity of the antenna is connected to Chain 1
 Horizontal polarity of the antenna is connected to Chain 0

Note: High Channel at Span 10MHz
 Data rate =13.0 Mbps
 C0 and C1 at the same time
 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 Distance: 3 Meters					
#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBμV/m	Spec dBμV/m	Margin dB	Polar Ant
1	687.310k	38.1	+9.9	+0.1	+0.0		-40.0	8.1	30.9	-22.8	Paral
2	503.329k	40.3	+9.8	+0.1	+0.0		-40.0	10.2	33.6	-23.4	Perpe
3	1.223M	30.2	+9.8	+0.1	+0.0		-40.0	0.1	25.9	-25.8	Perpe
4	1.024M	31.6	+9.7	+0.1	+0.0		-40.0	1.4	27.4	-26.0	Paral
5	1.411M	28.0	+9.8	+0.1	+0.0		-40.0	-2.1	24.6	-26.7	Paral
6	913.106k	32.1	+9.5	+0.1	+0.0		-40.0	1.7	28.4	-26.7	Perpe

CKC Laboratories, Inc Date: 6/20/2013 Time: 19:22:59 Digital Path WO#: 94341
 Test Distance: 3 Meters Sequence#: 76



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

Customer: **Digital Path**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Radiated Scan** Time: 16:23:22
 Equipment: **GEN6 CPE** Sequence#: 49
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamp	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	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:

Radiated Spurious Emission
 Frequency Range: 30MHz 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
 MHz

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz;
 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;
 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,
 1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 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

Antenna Gain=24dBi

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

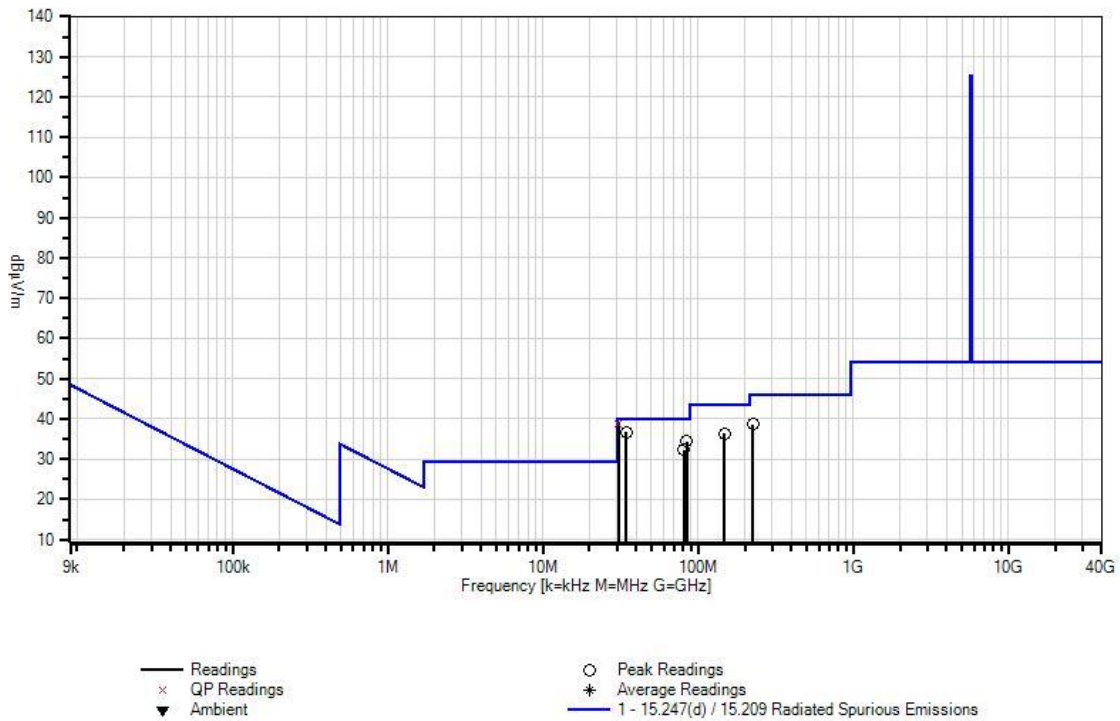
Note: Low Channel at Span 10MHz
 Data rate =13 Mbps
 C0 and C1 at the same time
 Adding one ferrite (Steward 28A 2024-0A0) with one pass through on RJ45 Data cables.

Ext Attn: 0 dB

Measurement Data:		Reading listed by margin.					Test Distance: 3 Meters				
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dB μ V	T5 dB	dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	30.631M	47.2	-27.1	+18.0	+0.5	+0.2	+0.0	38.9	40.0	-1.1	Vert
	QP		+0.1								
^	30.631M	48.6	-27.1	+18.0	+0.5	+0.2	+0.0	40.3	40.0	+0.3	Vert
			+0.1								
^	30.631M	48.6	-27.1	+18.0	+0.5	+0.2	+0.0	40.3	40.0	+0.3	Vert
			+0.1								
4	34.629M	47.0	-27.0	+16.0	+0.5	+0.1	+0.0	36.7	40.0	-3.3	Vert
			+0.1								
5	84.724M	51.8	-27.0	+8.3	+0.9	+0.1	+0.0	34.4	40.0	-5.6	Vert
			+0.3								

6	148.127M	50.5	-26.9 +0.3	+11.0	+1.2	+0.3	+0.0	36.4	43.5	-7.1	Horiz
7	224.959M	53.9	-27.0 +0.4	+9.5	+1.5	+0.3	+0.0	38.6	46.0	-7.4	Horiz
8	81.185M	50.3	-27.0 +0.3	+7.8	+0.8	+0.1	+0.0	32.3	40.0	-7.7	Horiz

CKC Laboratories, Inc Date: 6/20/2013 Time: 16:23:22 Digital Path WO#: 94341
 Test Distance: 3 Meters Sequence#: 49



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

Customer: **Digital Path**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Radiated Scan** Time: 16:38:09
 Equipment: **GEN6 CPE** Sequence#: 52
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamp	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	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:

Radiated Spurious Emission
 Frequency Range: 30MHz 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
 MHz

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz;
 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;
 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,
 1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 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

Antenna Gain=24dBi

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

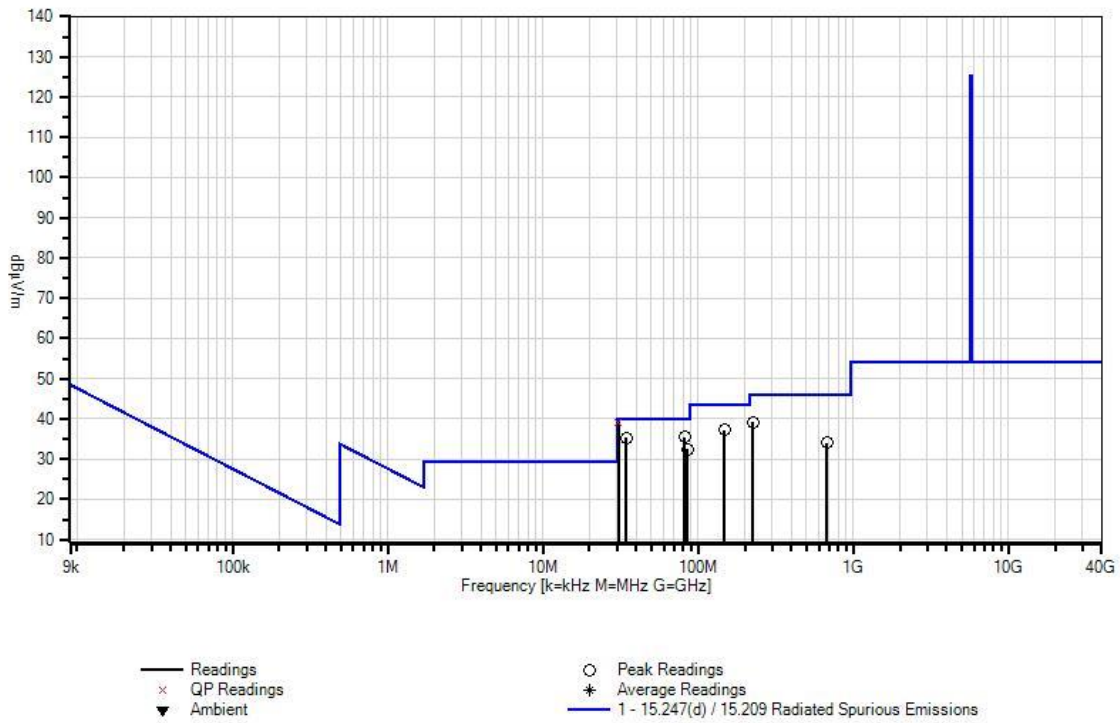
Note: Middle Channel at Span 10MHz
 Data rate =13 Mbps
 C0 and C1 at the same time
 Adding one ferrite (Steward 28A 2024-0A0) with one pass through on RJ45 Data cables.

Ext Attn: 0 dB

Measurement Data:		Reading listed by margin.					Test Distance: 3 Meters				
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dB μ V	T5 dB	dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	30.615M	47.4	-27.1	+18.1	+0.5	+0.2	+0.0	39.2	40.0	-0.8	Vert
	QP		+0.1								
^	30.615M	49.3	-27.1	+18.1	+0.5	+0.2	+0.0	41.1	40.0	+1.1	Vert
			+0.1								
^	30.615M	49.0	-27.1	+18.1	+0.5	+0.2	+0.0	40.8	40.0	+0.8	Vert
			+0.1								
4	81.489M	53.4	-27.0	+7.9	+0.8	+0.1	+0.0	35.5	40.0	-4.5	Vert
			+0.3								
5	34.629M	45.5	-27.0	+16.0	+0.5	+0.1	+0.0	35.2	40.0	-4.8	Vert
			+0.1								
6	148.127M	51.3	-26.9	+11.0	+1.2	+0.3	+0.0	37.2	43.5	-6.3	Horiz
			+0.3								

7	224.959M	54.5	-27.0 +0.4	+9.5	+1.5	+0.3	+0.0	39.2	46.0	-6.8	Horiz
8	85.736M	49.8	-27.0 +0.3	+8.4	+0.9	+0.1	+0.0	32.5	40.0	-7.5	Horiz
9	674.812M	36.5	-26.8 +0.7	+20.1	+2.9	+0.7	+0.0	34.1	46.0	-11.9	Vert

CKC Laboratories, Inc Date: 6/20/2013 Time: 16:38:09 Digital Path WO#: 94341
 Test Distance: 3 Meters Sequence#: 52



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

Customer: **Digital Path**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94341** Date: 6/20/2013
 Test Type: **Radiated Scan** Time: 16:52:33
 Equipment: **GEN6 CPE** Sequence#: 55
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN00730	Preamp	8447D	1/17/2013	1/17/2015
T2	AN00852	Biconilog Antenna	CBL 6111C	11/28/2012	11/28/2014
T3	ANP00880	Cable	RG214U	7/30/2012	7/30/2014
T4	ANP01183	Cable	CNT-195	10/24/2011	10/24/2013
T5	ANP05300	Cable	RG214/U	3/25/2013	3/25/2015
	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:

Radiated Spurious Emission
 Frequency Range: 30MHz 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
 MHz

9 kHz-150 kHz; RBW=200 Hz, VBW=200 Hz;
 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;
 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,
 1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 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

Antenna Gain=24dBi

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

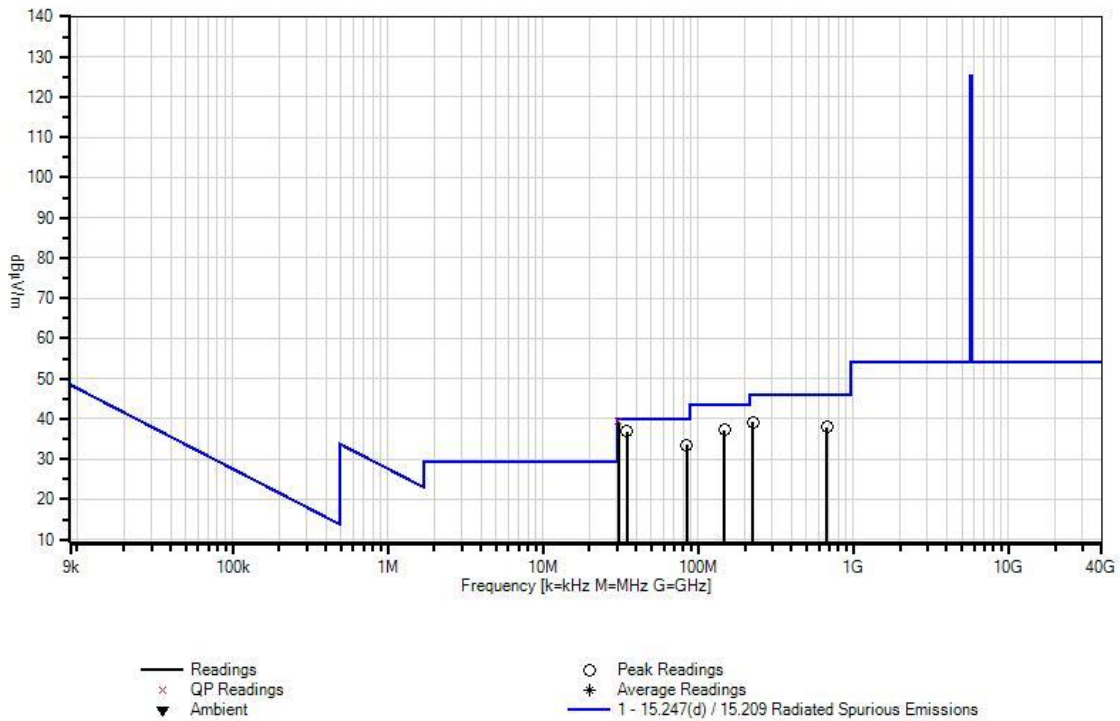
Note: High Channel at Span 10MHz
 Data rate =13 Mbps
 C0 and C1 at the same time
 Adding one ferrite (Steward 28A 2024-0A0) with one pass through on RJ45 Data cables.

Ext Attn: 0 dB

Measurement Data:		Reading listed by margin.					Test Distance: 3 Meters				
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dB μ V	T5	dB	dB	dB	Table	dB μ V/m	dB μ V/m	dB	Ant
1	30.619M	47.5	-27.1	+18.1	+0.5	+0.2	+0.0	39.3	40.0	-0.7	Vert
	QP		+0.1								
^	30.619M	49.0	-27.1	+18.1	+0.5	+0.2	+0.0	40.8	40.0	+0.8	Vert
			+0.1								
^	30.619M	48.6	-27.1	+18.1	+0.5	+0.2	+0.0	40.4	40.0	+0.4	Vert
			+0.1								
4	34.671M	47.1	-27.0	+16.0	+0.5	+0.1	+0.0	36.8	40.0	-3.2	Vert
			+0.1								
5	148.127M	51.3	-26.9	+11.0	+1.2	+0.3	+0.0	37.2	43.5	-6.3	Horiz
			+0.3								

6	84.623M	50.9	-27.0 +0.3	+8.3	+0.9	+0.1	+0.0	33.5	40.0	-6.5	Vert
7	224.959M	54.5	-27.0 +0.4	+9.5	+1.5	+0.3	+0.0	39.2	46.0	-6.8	Horiz
8	674.812M	40.4	-26.8 +0.7	+20.1	+2.9	+0.7	+0.0	38.0	46.0	-8.0	Horiz

CKC Laboratories, Inc Date: 6/20/2013 Time: 16:52:33 Digital Path WO#: 94341
 Test Distance: 3 Meters Sequence#: 55



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

Customer: **Digital Path**
 Specification: **15.247(d) / 15.209 Radiated Spurious Emissions**
 Work Order #: **94341** Date: 6/23/2013
 Test Type: **Radiated Scan** Time: 09:56:05
 Equipment: **GEN6 CPE** Sequence#: 85
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02157	Horn Antenna-ANSI C63.5	3115	1/23/2013	1/23/2015
	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	AN03114	Preamp	AMF-7D-00101800-30-10P	4/11/2013	4/11/2015
	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
	AN03015	Cable	32022-2-29094K-24TC	5/6/2013	5/6/2015
T1	ANANT-AN02693-20130221	Active Horn Antenna	AMFW-5F-18002650-20-10P	2/21/2013	2/21/2015
T2	AN03143	Cable	32022-29094K-144TC	8/30/2011	8/30/2013
T3	ANP00928	Cable	various	2/10/2012	2/10/2014
T4	ANP06138	Cable	32022-29094K-29094K-72TC	9/1/2011	9/1/2013
T5	AN02694	Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	2/4/2013	2/4/2015
T6	ANP00929	Cable	various	2/16/2012	2/16/2014
	AN02695	Active Horn Antenna	AMFW-5F-260400-33-8P	12/18/2012	12/18/2014
	ANP00930	Cable	various	2/16/2012	2/16/2014

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:

Radiated Spurious Emission
 Frequency Range: 1000MHz 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
 MHz

9 kHz -150 kHz; RBW=200 Hz, VBW=200 Hz;
 150 kHz-30 MHz; RBW=9 kHz, VBW=9 kHz;
 30 MHz-1000 MHz; RBW=120 kHz, VBW=120 kHz,
 1000 MHz-40,000 MHz; RBW=1 MHz, VBW=1 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

Antenna Gain=24dBi

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: Span 10MHz
 Data rate =13Mbps
 C0 and C1 at the same time
 Low, Middle and High Channel
 Adding one ferrite (Steward 28A 2024-0A0) with one pass through on RJ45 Data cables.
 Scans were performed with the RBW reduced as needed. Data all taken at the proper RBW setting. Above 11GHz, hand scan the unit at a 1 meter distance to determine if there are any signals. Any signals found are hand maximized at a 1 meter distance to ensure the maximum signal is found.

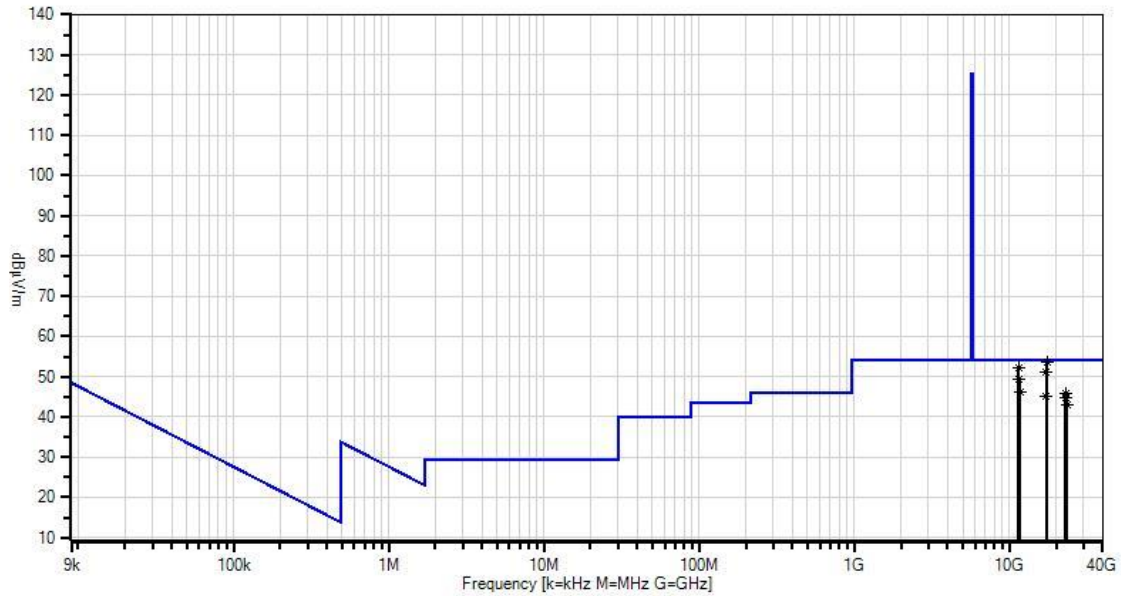
Ext Attn: 0 dB

Measurement Data:		Reading listed by margin.					Test Distance: 1 Meter				
#	Freq	Rdng	T1	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	T5	T6	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	17517.180	67.5	-14.3	+6.1	+0.8	+2.9	-9.5	53.5	54.0	-0.5	Vert
	M		+0.0	+0.0							
	Ave										
											High Channel- 25dBm- Not in Restricted band

^	17517.180	80.0	-14.3	+6.1	+0.8	+2.9	-9.5	66.0	54.0	+12.0	Vert
	M		+0.0	+0.0					High Channel- 25dBm- Not in Restricted band		
3	11472.558	70.7	-13.8	+4.8	+0.0	+0.0	-9.5	52.2	54.0	-1.8	Horiz
	M		+0.0	+0.0					Low Channel- 25dBm output- Restricted Band		
	Ave										
^	11472.558	84.4	-13.8	+4.8	+0.0	+0.0	-9.5	65.9	54.0	+11.9	Horiz
	M		+0.0	+0.0					Low Channel- 25dBm output- Restricted Band		
5	17349.775	65.5	-14.6	+6.0	+0.8	+2.9	-9.5	51.1	54.0	-2.9	Vert
	M		+0.0	+0.0					Middle Channel- 25dBm-Not in Restricted Band		
	Ave										
^	17349.775	78.9	-14.6	+6.0	+0.8	+2.9	-9.5	64.5	54.0	+10.5	Vert
	M		+0.0	+0.0					Middle Channel- 25dBm-Not in Restrict Band		
7	11571.893	68.2	-14.0	+4.8	+0.0	+0.0	-9.5	49.5	54.0	-4.5	Horiz
	M		+0.0	+0.0					Middle Channel- 25dBm output- Restricted Band		
	Ave										
^	11571.893	81.0	-14.0	+4.8	+0.0	+0.0	-9.5	62.3	54.0	+8.3	Horiz
	M		+0.0	+0.0					Middle Channel- 25dBm output- Restricted Band		
9	11684.458	65.1	-14.2	+4.8	+0.0	+0.0	-9.5	46.2	54.0	-7.8	Horiz
	M		+0.0	+0.0					High Channel- 25dBm output- Restricted Band		
	Ave										
^	11684.458	79.3	-14.2	+4.8	+0.0	+0.0	-9.5	60.4	54.0	+6.4	Horiz
	M		+0.0	+0.0					High Channel- 25dBm output- Restricted Band		
11	23141.751	60.0	+0.0	+7.0	+0.0	+3.3	-9.5	45.9	54.0	-8.1	Horiz
	M		-17.8	+2.9					Middle Channel- 25dBm output- Restricted Band		
	Ave										

^	23141.751	74.0	+0.0	+7.0	+0.0	+3.3	-9.5	59.9	54.0	+5.9	Horiz
	M		-17.8	+2.9					Middle Channel- 25dBm output- Restricted Band		
13	17202.284	59.6	-14.8	+6.0	+0.8	+2.9	-9.5	45.0	54.0	-9.0	Vert
	M		+0.0	+0.0					Low Channel - 25dBm- Not in Restricted Band		
	Ave										
^	17202.284	70.3	-14.8	+6.0	+0.8	+2.9	-9.5	55.7	54.0	+1.7	Vert
	M		+0.0	+0.0					Low Channel- 25dBm- Not in Restricted Band		
15	22937.086	58.6	+0.0	+7.1	+0.0	+3.3	-9.5	44.6	54.0	-9.4	Horiz
	M		-17.8	+2.9					Low Channel- 25dBm output- Restricted Band		
	Ave										
^	22937.086	74.3	+0.0	+7.1	+0.0	+3.3	-9.5	60.3	54.0	+6.3	Horiz
	M		-17.8	+2.9					Low Channel- 25dBm output- Restricted Band		
17	23361.443	57.1	+0.0	+7.0	+0.0	+3.3	-9.5	43.0	54.0	-11.0	Horiz
	M		-17.8	+2.9					High Channel- 25dBm output- Restricted Band		
	Ave										
^	23361.443	70.1	+0.0	+7.0	+0.0	+3.3	-9.5	56.0	54.0	+2.0	Horiz
	M		-17.8	+2.9					High Channel- 25dBm output- Restricted Band		

CKC Laboratories, Inc Date: 6/23/2013 Time: 09:56:05 Digital Path WO#: 94341
Test Distance: 1 Meter Sequence#: 85



— Readings
 × QP Readings
 ▼ Ambient
 ○ Peak Readings
 * Average Readings
 — 1 - 15.247(d) / 15.209 Radiated Spurious Emissions

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

Customer: **Digital Path**
 Specification: **15.247(d) Radiated Spurious Emissions-Non Restricted Band**
 Work Order #: **94341** Date: 6/24/2013
 Test Type: **Radiated Scan** Time: 09:44:57
 Equipment: **GEN6 CPE** Sequence#: 87
 Manufacturer: Digital Path Tested By: Hieu Song Nguyenpham
 Model: 2x
 S/N: 004

Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02157	Horn Antenna-ANSI C63.5	3115	1/23/2013	1/23/2015
	AN03302	Cable	32026-29094K-29094K-72TC	3/21/2012	3/21/2014
	ANP01210	Cable	FSJ1P-50A-4A	2/19/2013	2/19/2015
	AN02668	Spectrum Analyzer	E4446A	2/22/2013	2/22/2015
	AN03114	Preamp	AMF-7D-00101800-30-10P	4/11/2013	4/11/2015
	AN01417	High Pass Filter	84300-80039	2/9/2012	2/9/2014
	AN03015	Cable	32022-2-29094K-24TC	5/6/2013	5/6/2015
T1	ANANT-AN02693-20130221	Active Horn Antenna	AMFW-5F-18002650-20-10P	2/21/2013	2/21/2015
T2	AN03143	Cable	32022-29094K-144TC	8/30/2011	8/30/2013
T3	ANP00928	Cable	various	2/10/2012	2/10/2014
T4	ANP06138	Cable	32022-29094K-29094K-72TC	9/1/2011	9/1/2013
	AN02694	Horn Antenna-ANSI C63.5 Antenna Factors (dB)	AMFW-5F-18002650-20-10P	2/4/2013	2/4/2015
	ANP00929	Cable	various	2/16/2012	2/16/2014
	AN02695	Active Horn Antenna	AMFW-5F-260400-33-8P	12/18/2012	12/18/2014
	ANP00930	Cable	various	2/16/2012	2/16/2014

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:

Radiated Spurious Emission
 Frequency Range: 1000MHz 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
 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

Antenna Gain=24dBi

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

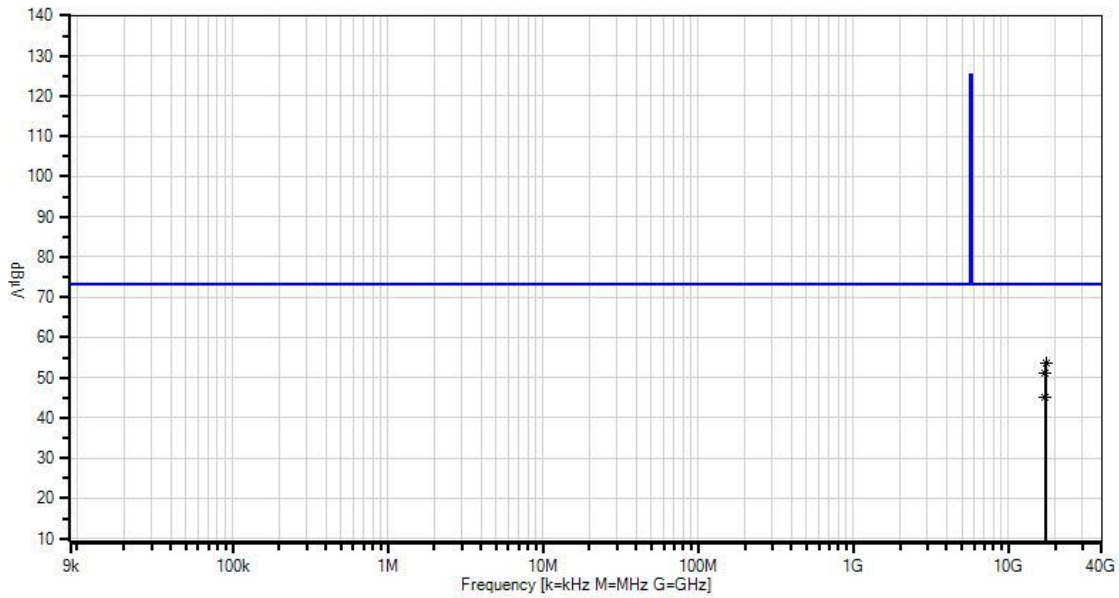
Note: Span 10MHz
 Data rate =13Mbps
 C0 and C1 at the same time
 Low, Middle and High Channel
 Adding one ferrite (Steward 28A 2024-0A0) with one pass through on RJ45 Data cables.
 Scans were performed with the RBW reduced as needed. Data all taken at the proper RBW setting. Above 11GHz, hand scan the unit at a 1 meter distance to determine if there are any signals. Any signals found are hand maximized at a 1 meter distance to ensure the maximum signal is found.

Ext Attn: 0 dB

Measurement Data:		Reading listed by margin.					Test Distance: 1 Meter					
#	Freq MHz	Rdng dBμV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBμV	Spec dBμV	Margin dB	Polar Ant	
1	17517.180 M	67.5	-14.3	+6.1	+0.8	+2.9	-9.5	53.5	73.4	-19.9	Vert	
	Ave								High Channel- 25dBm- Not in Restricted band			
^	17517.180 M	80.0	-14.3	+6.1	+0.8	+2.9	-9.5	66.0	73.4	-7.4	Vert	
									High Channel- 25dBm- Not in Restricted band			

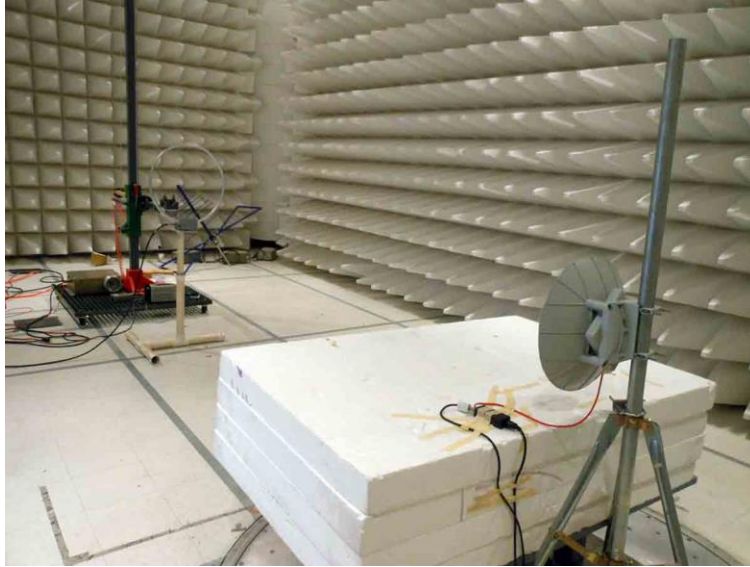
3	17349.775	65.5	-14.6	+6.0	+0.8	+2.9	-9.5	51.1	73.4	-22.3	Vert
M											
Ave											
									Middle Channel- 25dBm-Not in Restricted Band		
^	17349.775	78.9	-14.6	+6.0	+0.8	+2.9	-9.5	64.5	73.4	-8.9	Vert
M											
									Middle Channel- 25dBm-Not in Restrict Band		
5	17202.284	59.6	-14.8	+6.0	+0.8	+2.9	-9.5	45.0	73.4	-28.4	Vert
M											
Ave											
									Low Channel - 25dBm- Not in Restricted Band		
^	17202.284	70.3	-14.8	+6.0	+0.8	+2.9	-9.5	55.7	73.4	-17.7	Vert
M											
									Low Channel- 25dBm- Not in Restricted Band		

CKC Laboratories, Inc Date: 6/24/2013 Time: 09:44:57 Digital Path WO#: 94341
 Test Distance: 1 Meter Sequence#: 87



— Readings
 × QP Readings
 ▼ Ambient
 ○ Peak Readings
 * Average Readings
 — 1 - 15.247(d) Radiated Spurious Emissions-Non Restricted Band

Test Setup Photos



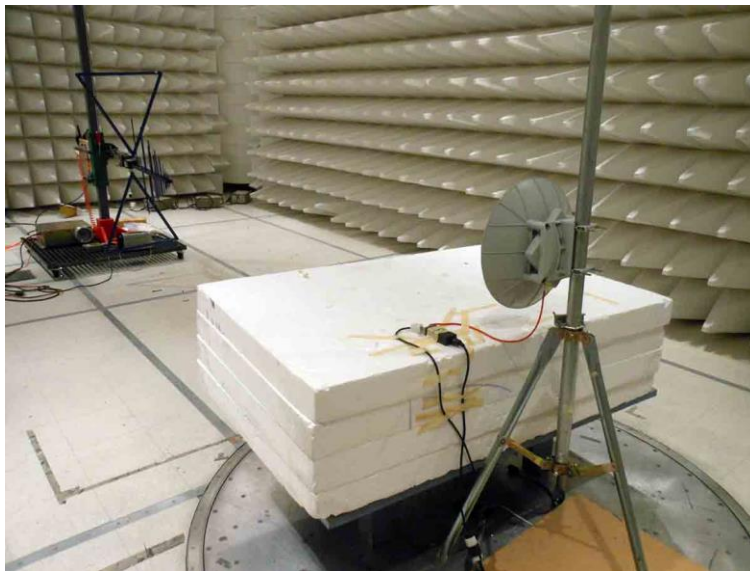
9kHz-30MHz



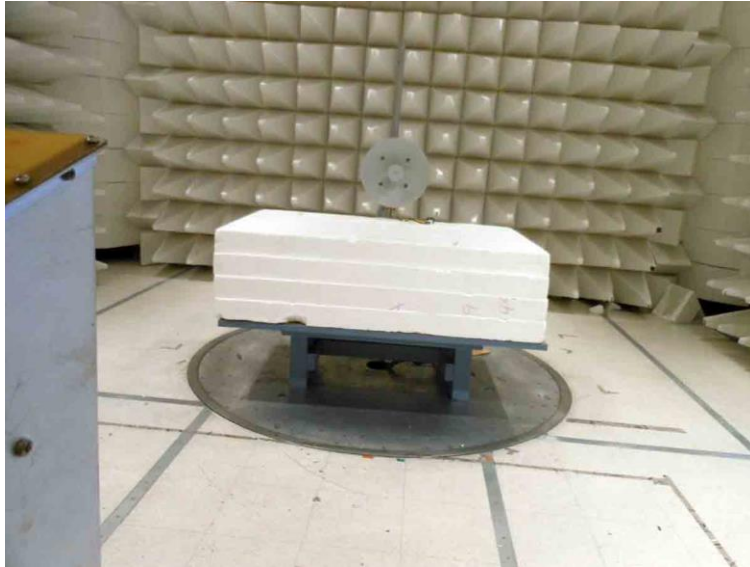
9kHz-30MHz



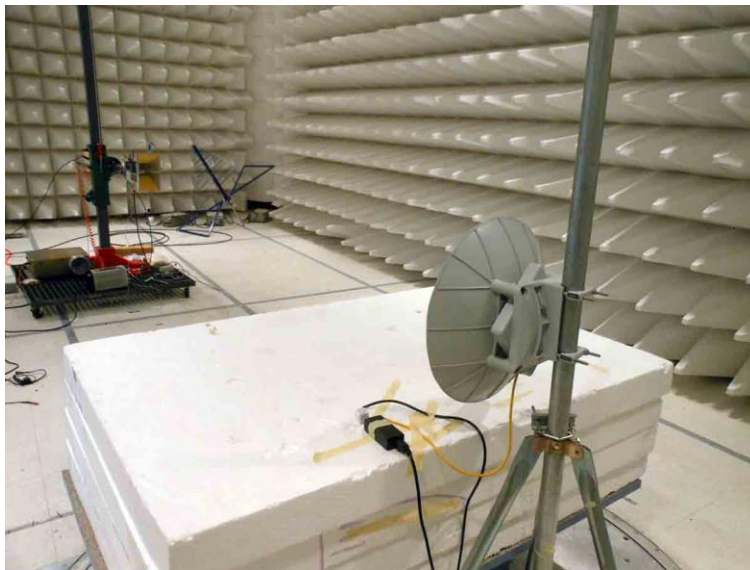
30MHz -1GHz



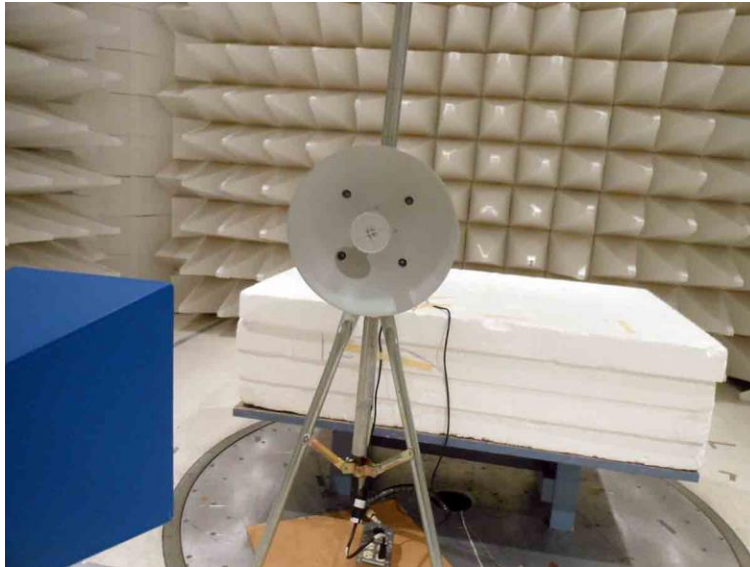
30MHz -1GHz



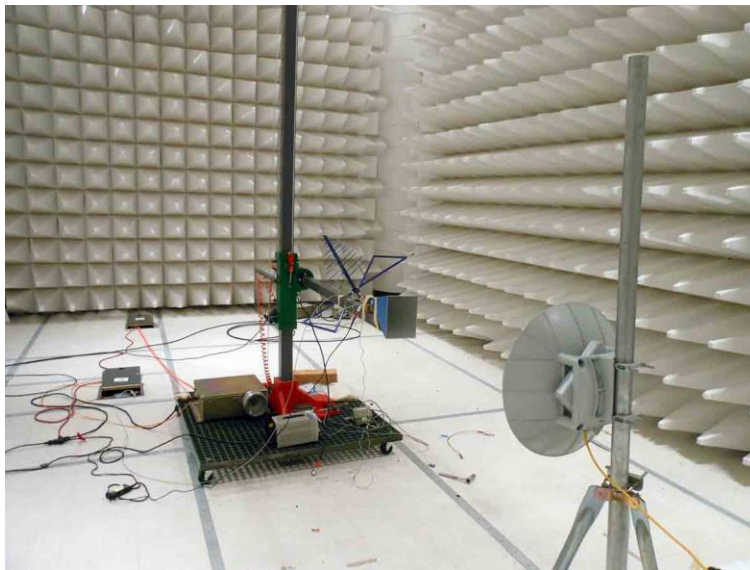
1-10GHz



1-10GHz



10-40GHz



10-40GHz

15.247 Power Spectral Density

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**

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:

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

The limit is 8dBm.

Power Spectral Density: 15.247, 5MHz		
Channel	802.11n (dBm)	
	Chain 0	Chain 1
LO	6.43	7.11
MID	6.02	7.30
HI	5.20	6.78

Maximum Power Input 25 dBm .Worst Case 802.11a data rate is MCS2=19.5Mbps

The Power Spectral Density measurements were made using the methods set out in KDB "558704 D01 DTS Meas Guidance v03r01", Section 10.2 Measurement Procedure PKPSD.

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 8dBm.

Cable Loss: 1.56dB

Attenuator: 9.4dB

LO= LO Channel

MID =MID Channel

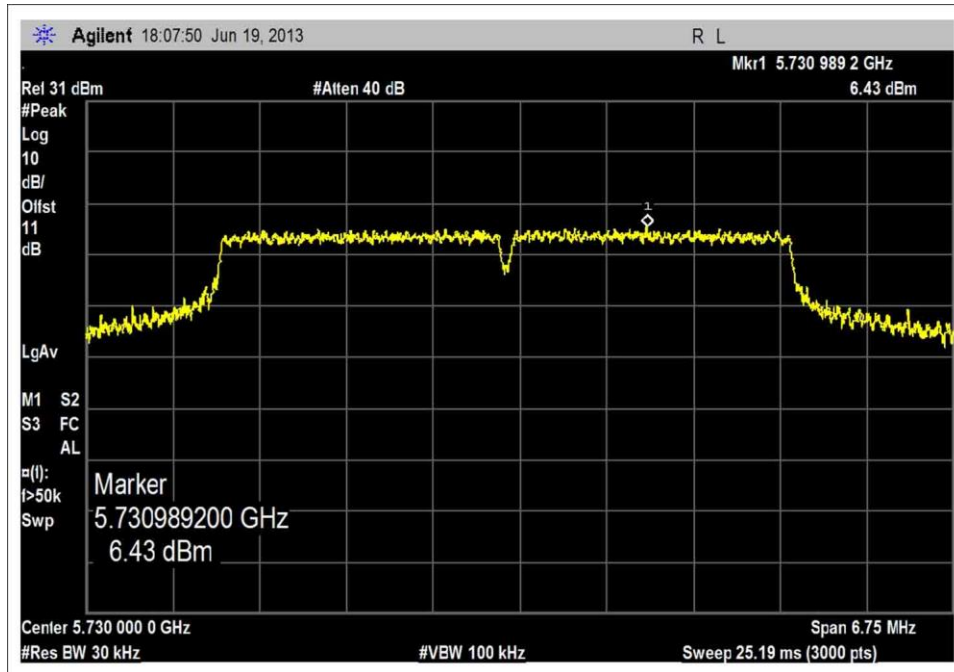
HI =HI Channel

n =802.11n

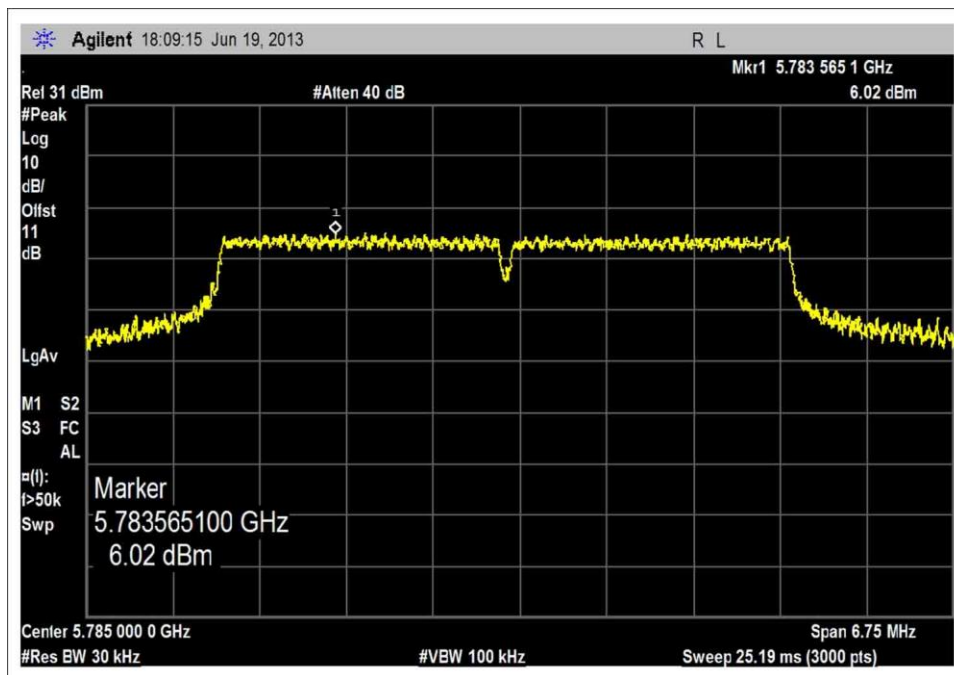
5MHz =System 5MHz Channel Width

10MH= System 10MHz Channel Width

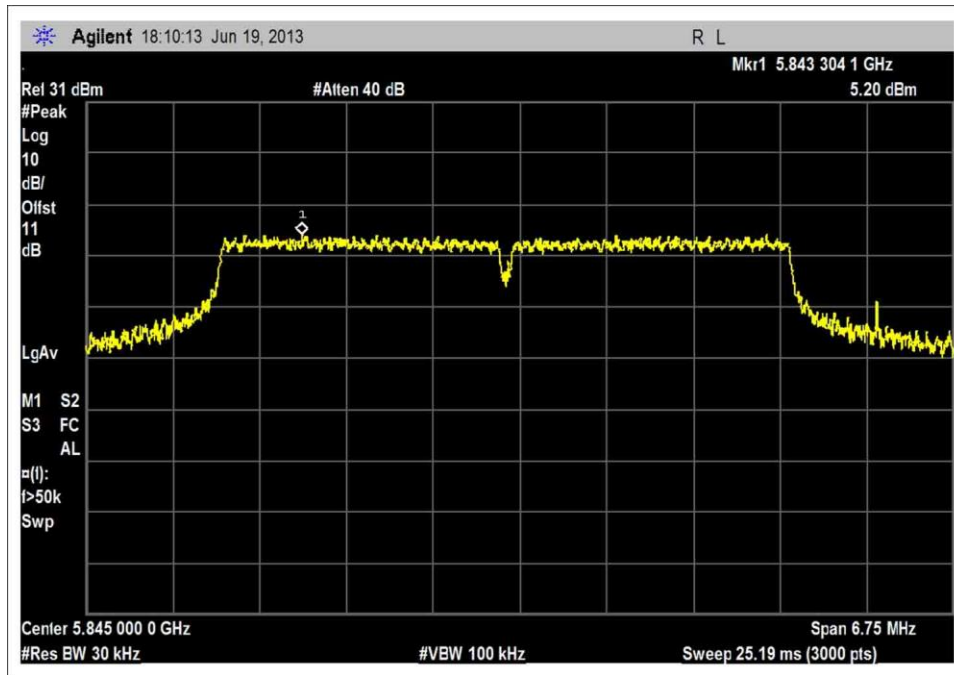
Chain 0 5MHz
Test Plots



Low Channel_19.5Mbps

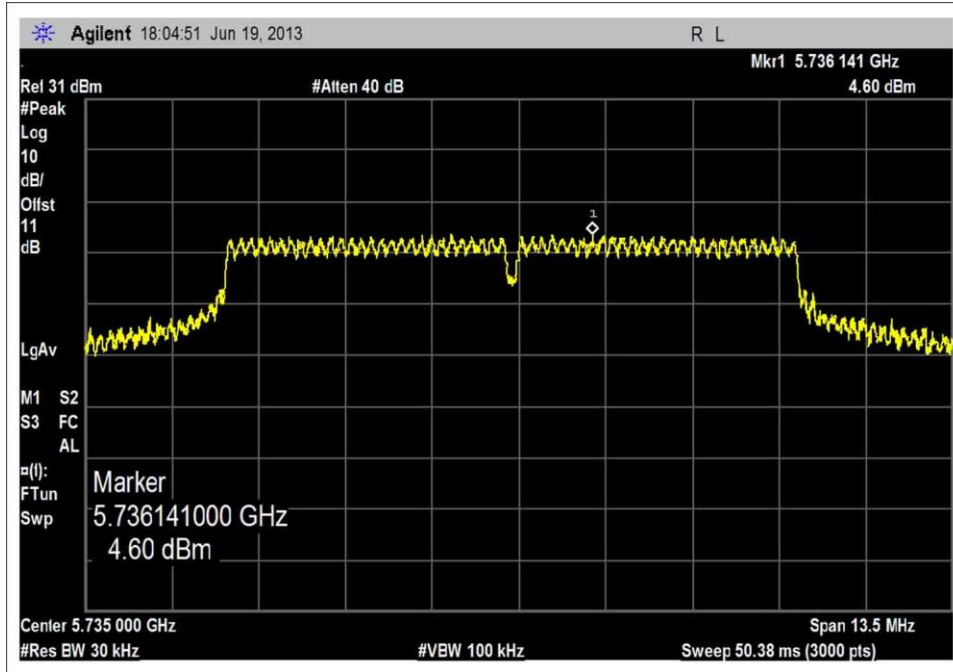


Mid Channel_19.5Mbps

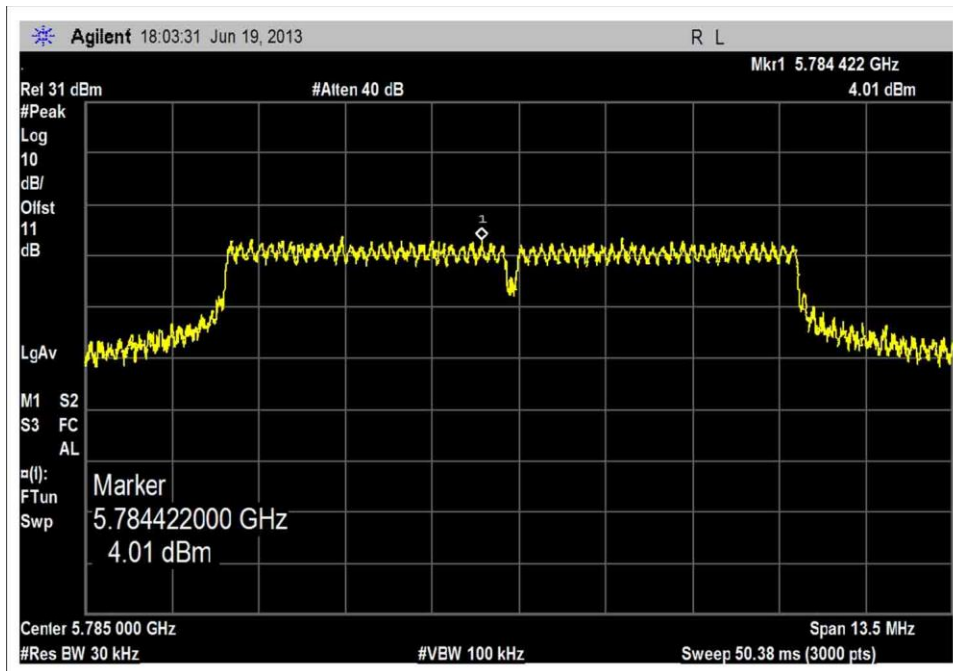


Mid Channel_19.5Mbps

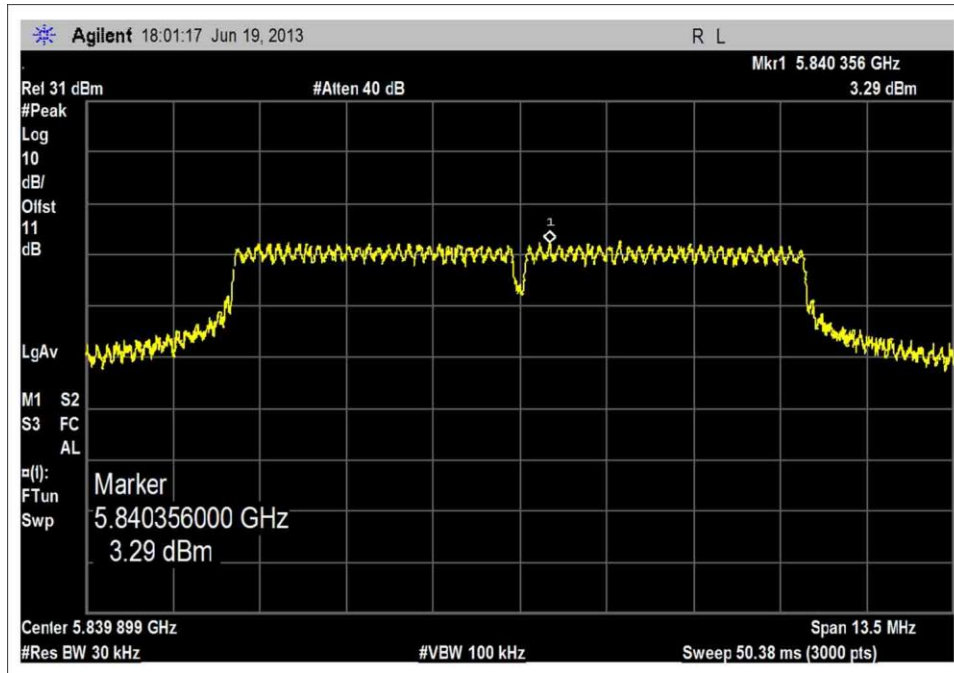
Chain 0 10MHz
Test Plots



Low Channel 13.0Mbps

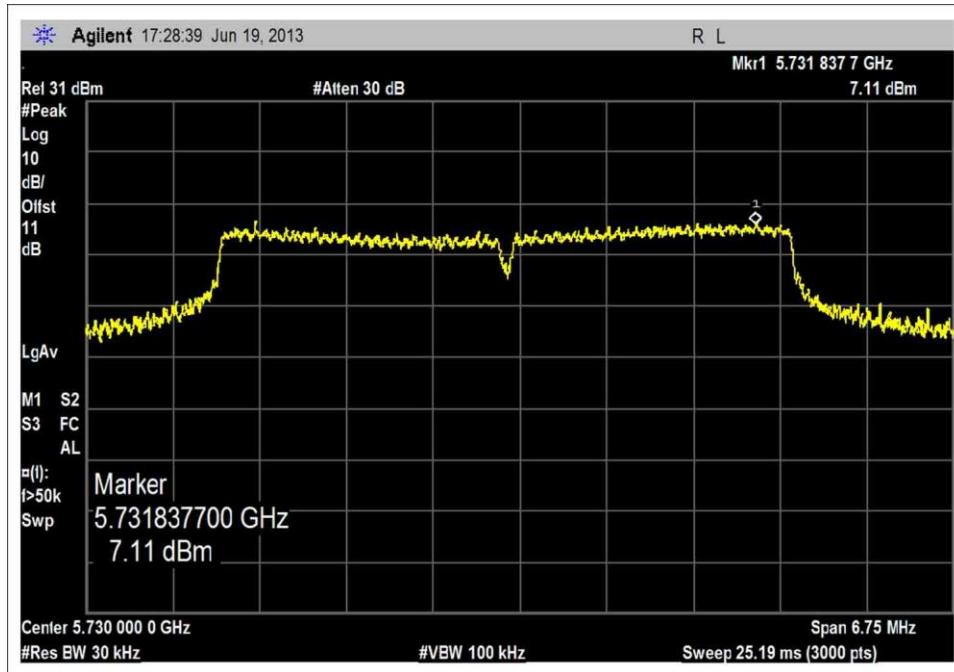


Mid Channel 13.0Mbps

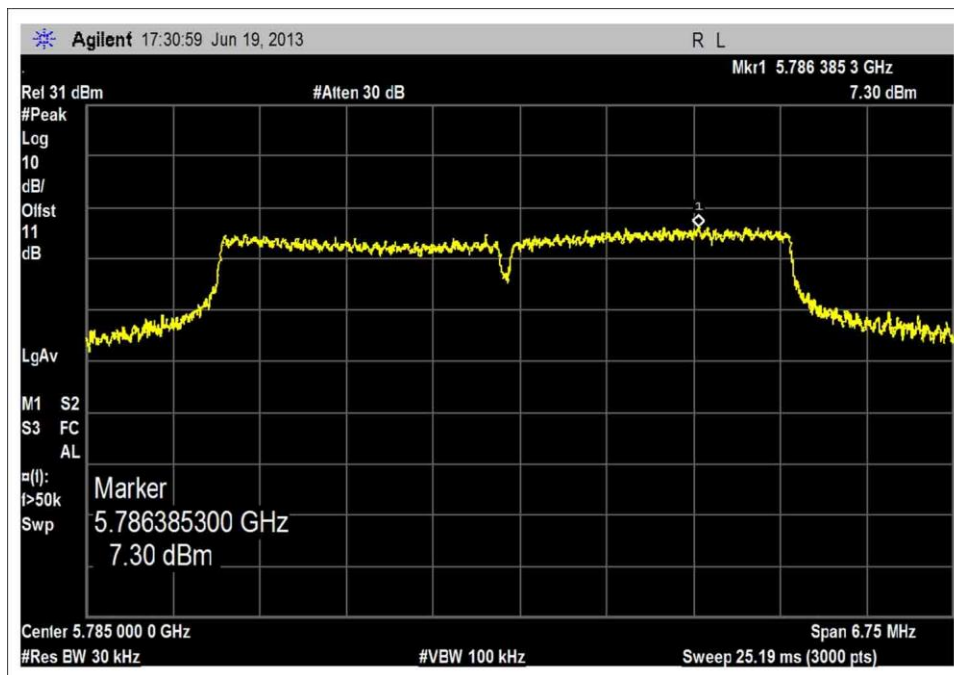


High Channel 13.0Mbps

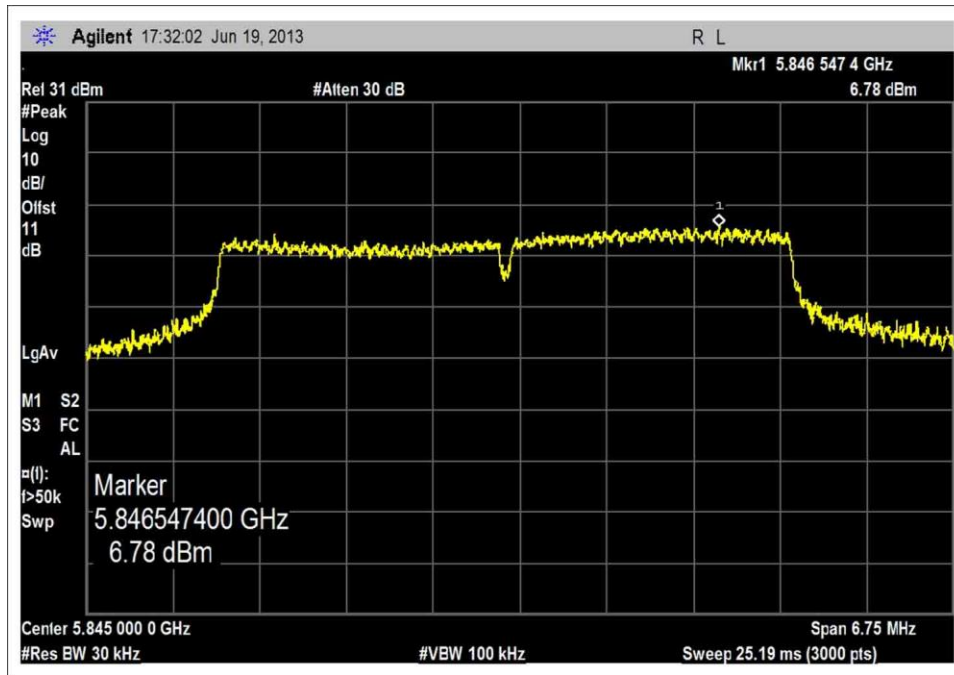
Chain 1 5MHz
Test Plots



Low Channel 19.5Mbps

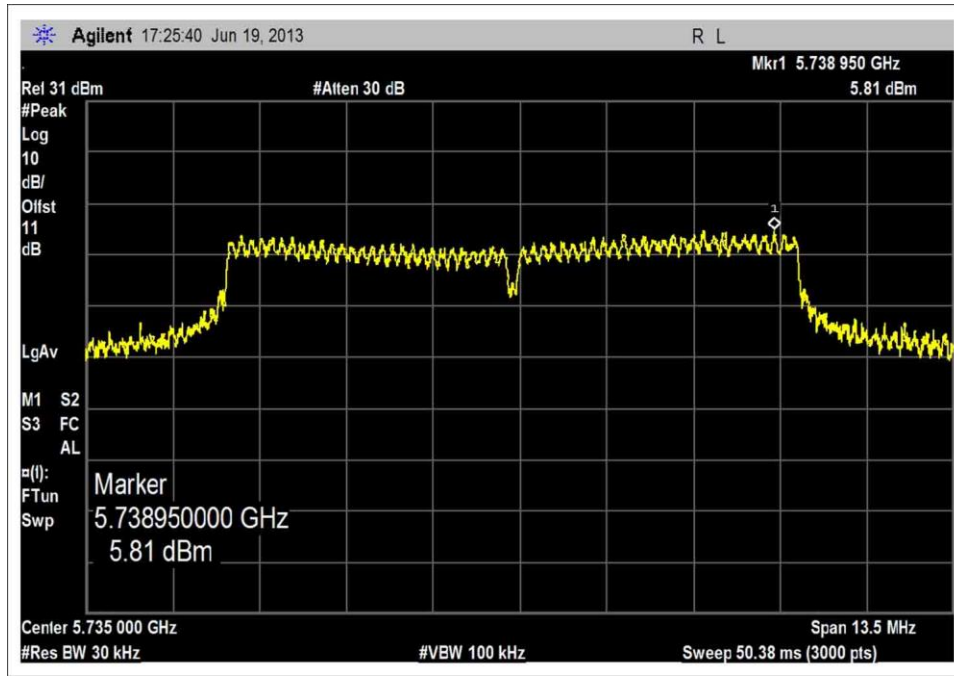


Mid Channel 19.5Mbps

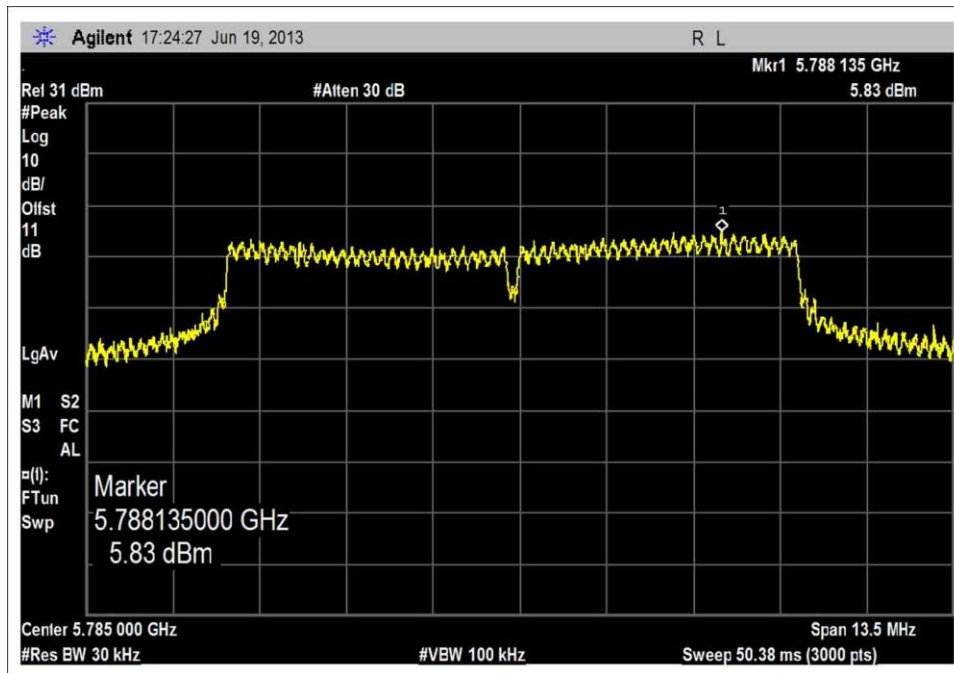


High Channel 19.5Mbps

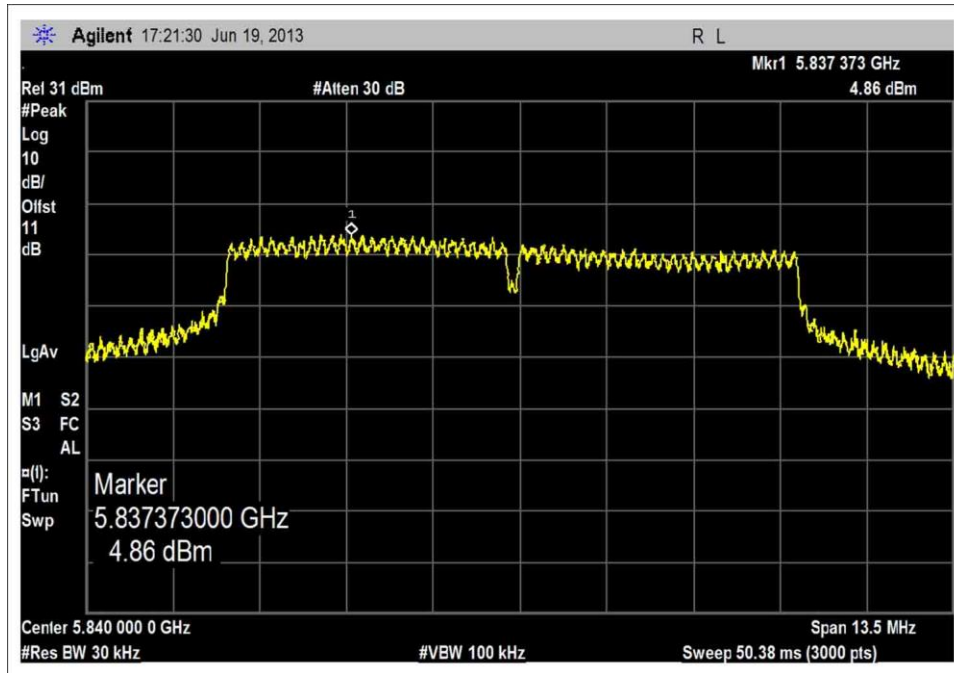
Chain 1 10MHz
Test Plots



Low Channel 13.0Mbps

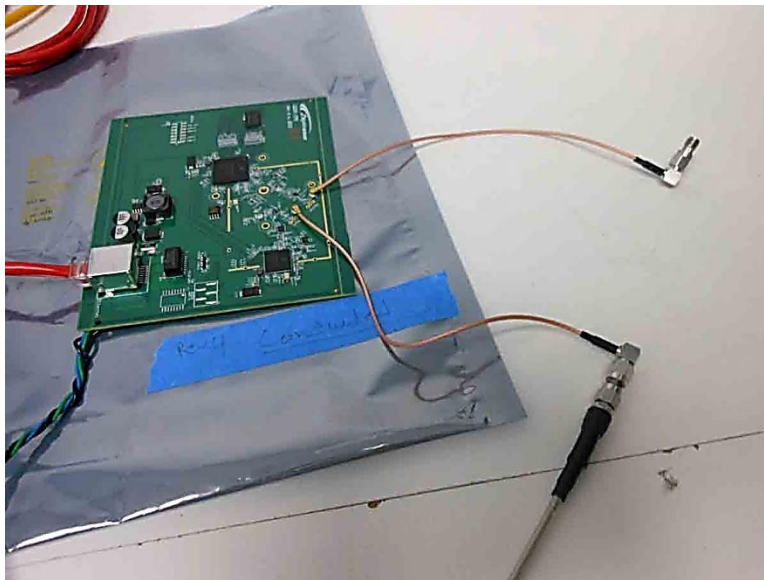
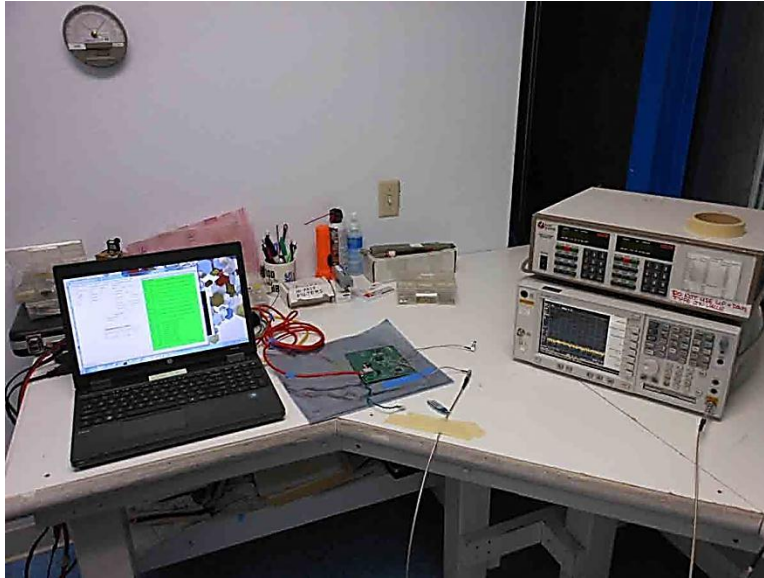


Mid Channel 13.0Mbps



Mid Channel 13.0Mbps

Test Setup Photos



SUPPLEMENTAL INFORMATION

Measurement Uncertainty

Uncertainty Value	Parameter
4.73 dB	Radiated Emissions
3.34 dB	Mains Conducted Emissions
3.30 dB	Disturbance Power

The reported measurement uncertainties are calculated based on the worst case of all laboratory environments from CKC Laboratories, Inc. test sites. Only those parameters which require estimation of measurement uncertainty are reported. The reported worst case measurement uncertainty is less than the maximum values derived in CISPR 16-4-2. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2. Compliance is deemed to occur provided measurements are below the specified limits.

Emissions Test Details

TESTING PARAMETERS

Unless otherwise indicated, the following configuration parameters are used for equipment setup: The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dBμV/m, the spectrum analyzer reading in dBμV was corrected by using the following formula. This reading was then compared to the applicable specification limit.

SAMPLE CALCULATIONS		
	Meter reading	(dB μ V)
+	Antenna Factor	(dB)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	(dB μ V/m)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. Unless otherwise specified, the following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used.

MEASURING EQUIPMENT BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
CONDUCTED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	9 kHz	150 kHz	200 Hz
RADIATED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz
RADIATED EMISSIONS	1000 MHz	>1 GHz	1 MHz

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "positive peak" detector mode. Whenever a "quasi-peak" or "average" reading was recorded, the measurement was annotated with a "QP" or an "Ave" on the appropriate rows of the data sheets. In cases where quasi-peak or average limits were employed and data exists for multiple measurement types for the same frequency then the peak measurement was retained in the report for reference, however the numbering for the affected row was removed and an arrow or carrot ("^") was placed in the far left-hand column indicating that the row above takes precedence for comparison to the limit. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer or receiver recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature called "peak hold," the measurement device had the ability to measure intermittent or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

Quasi-peak measurements were taken using the quasi-peak detector when the true peak values exceeded or were within 2 dB of a quasi-peak specification limit. Additional QP measurements may have been taken at the discretion of the operator.

Average

Average measurements were taken using the average detector when the true peak values exceeded or were within 2 dB of an average specification limit. Additional average measurements may have been taken at the discretion of the operator. If the specification or test procedure requires trace averaging, then the averaging was performed using 100 samples or as required by the specification. All other average measurements are performed using video bandwidth averaging. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.