

# **Cardiocom**

**CD320 Commander Flex** 

FCC 15.207:2015 FCC 15.249.2015

Report # CCOM0021.1





NVLAP Lab Code: 200881-0

# **CERTIFICATE OF TEST**



Last Date of Test: July 08, 2015 Cardiocom Model: CD320 Commander Flex

# **Radio Equipment Testing**

## **Standards**

Specification	Method
FCC 15.207:2015	ANSI C63.10:2009
FCC 15.249:2015	ANSI C63.10:2009

#### Results

Method Clause	Test Description	Applied	Results	Comments
6.2	Powerline Conducted Emissions	Yes	Pass	
6.5, 6.6	Field Strength of Harmonics and Spurious Radiated Emissions	Yes	Pass	
6.6	Field Strength of Fundamental	Yes	Pass	

# **Deviations From Test Standards**

None

Approved By:

Tim O'Shea, Operations Manager

Product compliance is the responsibility of the client; therefore, the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. The results of this test pertain only to the sample(s) tested. The specific description is noted in each of the individual sections of the test report supporting this certificate of test. This report reflects only those tests from the referenced standards shown in the certificate of test. It does not include inspection or verification of labels, identification, marking or user information.

# **REVISION HISTORY**



Revision Number	Description	Date	Page Number
00	None		

# ACCREDITATIONS AND AUTHORIZATIONS



#### **United States**

FCC - Designated by the FCC as a Telecommunications Certification Body (TCB). Certification chambers, Open Area Test Sites, and conducted measurement facilities are listed with the FCC.

**A2LA** - Accredited by A2LA to ISO / IEC 17065 as a product certifier. This allows Northwest EMC to certify transmitters to FCC and IC specifications.

NVLAP - Each laboratory is accredited by NVLAP to ISO 17025

### Canada

IC - Recognized by Industry Canada as a Certification Body (CB). Certification chambers and Open Area Test Sites are filed with IC.

# **European Union**

**European Commission** – Validated by the European Commission as a Conformity Assessment Body (CAB) under the EMC directive and as a Notified Body under the R&TTE Directive.

# Australia/New Zealand

**ACMA** - Recognized by ACMA as a CAB for the acceptance of test data.

#### Korea

MSIP / RRA - Recognized by KCC's RRA as a CAB for the acceptance of test data.

# **Japan**

VCCI - Associate Member of the VCCI. Conducted and radiated measurement facilities are registered.

## **Taiwan**

**BSMI** – Recognized by BSMI as a CAB for the acceptance of test data.

**NCC** - Recognized by NCC as a CAB for the acceptance of test data.

### Singapore

IDA - Recognized by IDA as a CAB for the acceptance of test data.

#### Israel

**MOC** – Recognized by MOC as a CAB for the acceptance of test data.

# Hong Kong

**OFCA** – Recognized by OFCA as a CAB for the acceptance of test data.

### **Vietnam**

MIC – Recognized by MIC as a CAB for the acceptance of test data.

### SCOPE

For details on the Scopes of our Accreditations, please visit:

http://www.nwemc.com/accreditations/ http://gsi.nist.gov/global/docs/cabs/designations.html

# **MEASUREMENT UNCERTAINTY**



# **Measurement Uncertainty**

When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. Measurement uncertainty is a statistical expression of measurement error qualified by a probability distribution.

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty (K=2) for each test is on each data sheet. Our measurement data meets or exceeds the measurement uncertainty requirements of the applicable specification; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for estimating measurement uncertainty are based upon ETSI TR 100 028 (or CISPR 16-4-2 as applicable), and are available upon request.

The following table represents the Measurement Uncertainty (MU) budgets for each of the tests that may be contained in this report.

Test	+ MU	<u>- MU</u>
Frequency Accuracy (Hz)	0.0007%	-0.0007%
Amplitude Accuracy (dB)	1.2 dB	-1.2 dB
Conducted Power (dB)	0.3 dB	-0.3 dB
Radiated Power via Substitution (dB)	0.7 dB	-0.7 dB
Temperature (degrees C)	0.7°C	-0.7°C
Humidity (% RH)	2.5% RH	-2.5% RH
Voltage (AC)	1.0%	-1.0%
Voltage (DC)	0.7%	-0.7%
Field Strength (dB)	5.2 dB	-5.2 dB
AC Powerline Conducted Emissions (dB)	2.4 dB	-2.4 dB

# **FACILITIES**





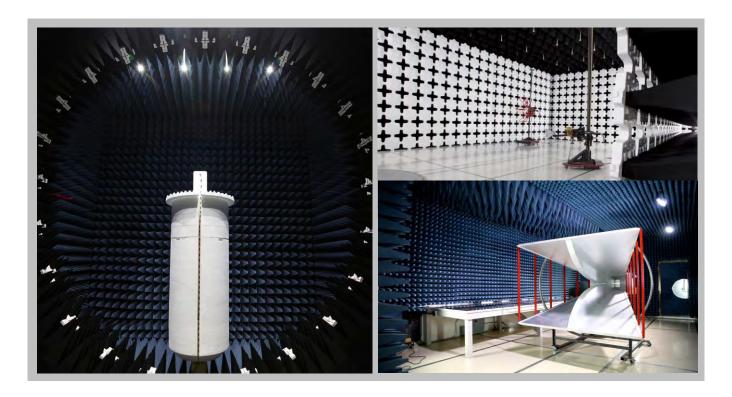


California			
Labs OC01-13			
41 Tesla			
Irvine, CA 92618			
(949) 861-8918			

Minnesota Labs MN01-08, MN10 9349 W Broadway Ave. Brooklyn Park, MN 55445 (612)-638-5136 New York Labs NY01-04 4939 Jordan Rd. Elbridge, NY 13060 (315) 554-8214 Oregon Labs EV01-12 22975 NW Evergreen Pkwy Hillsboro, OR 97124 (503) 844-4066 **Texas**Labs TX01-09
3801 E Plano Pkwy
Plano, TX 75074
(469) 304-5255

**Washington**Labs NC01-05
19201 120<sup>th</sup> Ave NE
Bothell, WA 9801
(425)984-6600

(949) 861-8918	(612)-638-5136	(315) 554-8214	(503) 844-4066	(469) 304-5255	(425)984-6600
NVLAP					
NVLAP Lab Code: 200676-0	NVLAP Lab Code: 200881-0	NVLAP Lab Code: 200761-0	NVLAP Lab Code: 200630-0	NVLAP Lab Code:201049-0	NVLAP Lab Code: 200629-0
		Industry	Canada		
2834B-1, 2834B-3	2834E-1	N/A	2834D-1, 2834D-2	2834G-1	2834F-1
		BS	МІ		
SL2-IN-E-1154R	SL2-IN-E-1152R	N/A	SL2-IN-E-1017	SL2-IN-E-1158R	SL2-IN-E-1153R
		VC	CI		
A-0029	A-0109	N/A	A-0108	A-0201	A-0110
Recognized Phase I CAB for ACMA, BSMI, IDA, KCC/RRA, MIC, MOC, NCC, OFCA					
US0158	US0175	N/A	US0017	US0191	US0157



# PRODUCT DESCRIPTION



# **Client and Equipment Under Test (EUT) Information**

Company Name:	Cardiocom
Address:	7980 Century Blvd
City, State, Zip:	Chanhassen, MN 55317
Test Requested By:	Viet Vuong
Model:	CD320 Commander Flex
First Date of Test:	June 29, 2015
Last Date of Test:	July 08, 2015
Receipt Date of Samples:	June 29, 2015
Equipment Design Stage:	Revision 2
Equipment Condition:	No Damage

# Information Provided by the Party Requesting the Test

# **Functional Description of the EUT:**

The CD320 Commander Flex is the host/hub that collects bio-metric data and sends them to a centralized server.

# **Testing Objective:**

Seeking to demonstrate compliance under FCC 15.249 for operation in the 2400 - 2483.5 MHz Band.



# Configuration CCOM0015-1

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Data Hub	Cardiocom	CD320 Commander Flex	900000008

Peripherals in test setup boundary						
Description Manufacturer Model/Part Number Serial Numb						
AC Adapter	Shenzhen Fujia Appliance Co. Ltd.	FJ-SW0701100U	None			
Scale	Cardiocom	SC250	2S002272			
SpO2 Finger Monitor	Cardiocom	PO100	1P104033			
Serial Cradle	nSpire Health, Inc.	662114	None			

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Cable	No	4.85m	Yes	AC Adapter	Data Hub
Scale Cable	No	1.85m	No	Data Hub	Scale
3.5mm Phone Cables (x3)	No	0.90m	No	Data Hub	Unterminated
Pulse Oximeter Cable	No	0.20m	No	Data Hub	Pulse Oximeter
Finger Monitor Cable	No	0.90m	No	Pulse Oximeter	Finger Monitor
Serial Cradle Cable	No	1.80m	No	Data Hub	Serial Cradle
USB Cable	No	1.85m	No	Data Hub	Mouse



# Configuration CCOM0015- 2

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Data Hub	Cardiocom	CD320 Commander Flex	900000008

Peripherals in test setup boundary						
Description Manufacturer Model/Part Number Serial Number						
AC Adapter	Shenzhen Fujia Appliance Co. Ltd.	FJ-SW0701100U	None			
Scale	Cardiocom	SC250	2S002272			
SpO2 Finger Monitor	Cardiocom	PO100	1P104033			
Serial Cradle	nSpire Health, Inc.	662114	None			

Remote Equipment Outside of Test Setup Boundary				
Description	Manufacturer	Model/Part Number	Serial Number	
Data Hub 2	Cardiocom	CD320 Commander Flex	1000036633	
AC Adapter 2	Shenzhen Fujia Appliance Co. Ltd.	FJ-SW0701100U	None	

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Cable	No	4.85m	Yes	AC Adapter	Data Hub
Scale Cable	No	1.85m	No	Data Hub	Scale
3.5mm Phone Cables (x3)	No	0.90m	No	Data Hub	Unterminated
Pulse Oximeter Cable	No	0.20m	No	Data Hub	Pulse Oximeter
Finger Monitor Cable	No	0.90m	No	Pulse Oximeter	Finger Monitor
Serial Cradle Cable	No	1.80m	No	Data Hub	Serial Cradle
USB Cable	No	1.85m	No	Data Hub	Mouse
DC Cable 2	No	4.85m	Yes	Data Hub 2	AC Adapter 2



# **Configuration CCOM0015-3**

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Data Hub	Cardiocom	CD320 Commander Flex	900000009

Peripherals in test setup boundary					
Description	Manufacturer	Model/Part Number	Serial Number		
AC Adapter	Shenzhen Fujia Appliance Co. Ltd.	FJ-SW0701100U	None		
Scale	Cardiocom	SC250	2S002272		
SpO2 Finger Monitor	Cardiocom	PO100	1P104033		
Serial Cradle	nSpire Health, Inc.	662114	None		

Remote Equipment Outside of Test Setup Boundary				
Description	Manufacturer	Model/Part Number	Serial Number	
Data Hub 2	Cardiocom	CD320 Commander Flex	1000036633	
AC Adapter 2	Shenzhen Fujia Appliance Co. Ltd.	FJ-SW0701100U	None	

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Cable	No	4.85m	Yes	AC Adapter	Data Hub
Scale Cable	No	1.85m	No	Data Hub	Scale
3.5mm Phone Cables (x3)	No	0.90m	No	Data Hub	Unterminated
Pulse Oximeter Cable	No	0.20m	No	Data Hub	Pulse Oximeter
Finger Monitor Cable	No	0.90m	No	Pulse Oximeter	Finger Monitor
Serial Cradle Cable	No	1.80m	No	Data Hub	Serial Cradle
USB Cable	No	1.85m	No	Data Hub	Mouse
DC Cable 2	No	4.85m	Yes	Data Hub 2	AC Adapter 2

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# Configuration CCOM0015- 4

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Data Hub	Cardiocom	CD320 Commander Flex	900000009

Peripherals in test setup boundary					
Description	Manufacturer	Model/Part Number	Serial Number		
AC Adapter	Shenzhen Fujia Appliance Co. Ltd.	FJ-SW0701100U	None		
Scale	Cardiocom	SC250	2S002272		
SpO2 Finger Monitor	Cardiocom	PO100	1P104033		
Serial Cradle	nSpire Health, Inc.	662114	None		

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Cable	No	4.85m	Yes	AC Adapter	Data Hub
Scale Cable	No	1.85m	No	Data Hub	Scale
3.5mm Phone Cables (x3)	No	0.90m	No	Data Hub	Unterminated
Pulse Oximeter Cable	No	0.20m	No	Data Hub	Pulse Oximeter
Finger Monitor Cable	No	0.90m	No	Pulse Oximeter	Finger Monitor
Serial Cradle Cable	No	1.80m	No	Data Hub	Serial Cradle
USB Cable	No	1.85m	No	Data Hub	Mouse

# **MODIFICATIONS**



# **Equipment Modifications**

Item	Date	Test	Modification	Note	Disposition of EUT
		Powerline	Tested as	No EMI suppression	EUT remained at
1	6/29/2015	Conducted	delivered to	devices were added or	Northwest EMC
		Emissions	Test Station.	modified during this test.	following the test.
2	7/8/2015	Field Strength of Fundamental	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	7/8/2015	Field Strength of Harmonic and Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.



### **TEST DESCRIPTION**

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50  $\Omega$  measuring port is terminated by a 50  $\Omega$  EMI meter or a 50  $\Omega$  resistive load. All 50  $\Omega$  measuring ports of the LISN are terminated by 50 $\Omega$ .

### **TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Receiver	Rohde & Schwarz	ESR7	ARI	5/21/2015	05/21/2016
Attenuator 20dB, BNC	Fairview Microwave	SA01B-20	AQP	7/22/2014	07/22/2015
High Pass Filter	TTE	H97-100K-50-720B	HGN	5/11/2015	05/11/2016
LISN	Solar Electronics	9252-50-R-24-BNC	LIY	3/23/2015	03/23/2016
Cable	ESM Cable Corp.	Conducted Cables	MNC	5/13/2015	05/13/2016

#### **MEASUREMENT UNCERTAINTY**

Description		
Expanded k=2	2.4 dB	-2.4 dB

#### **CONFIGURATIONS INVESTIGATED**

CCOM0015-3

#### **MODES INVESTIGATED**

Transmitting channel 10 Transmitting channel 8 Transmitting channel 9



EUT:	CD320 Commander Flex	Work Order:	CCOM0015
Serial Number:	900000009	Date:	06/29/2015
Customer:	Cardiocom	Temperature:	22.4°C
Attendees:	None	Relative Humidity:	57%
Customer Project:	None	Bar. Pressure:	980 mb
Tested By:	Dustin Sparks	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	CCOM0015-3

### **TEST SPECIFICATIONS**

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2009

# **TEST PARAMETERS**

Run #:	5	Line:	Neutral	Add. Ext. Attenuation (dB):	0

### **COMMENTS**

None

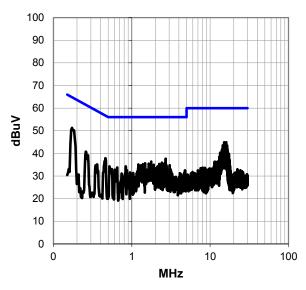
# **EUT OPERATING MODES**

Transmitting channel 8

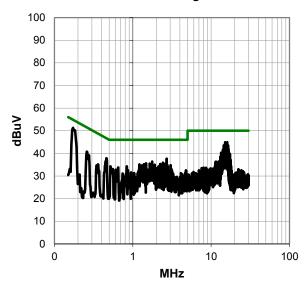
### **DEVIATIONS FROM TEST STANDARD**

None

#### Peak Data - vs - Quasi Peak Limit



# Peak Data - vs - Average Limit





# **RESULTS - Run #5**

Peak Data - vs - Quasi Peak Limit

	I Cak Da	ia - vs - G	luasi i Cai		
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.172	30.9	20.4	51.3	64.8	-13.6
16.062	23.7	21.2	44.9	60.0	-15.1
15.125	23.8	21.1	44.9	60.0	-15.1
16.051	22.8	21.2	44.0	60.0	-16.0
14.931	22.5	21.1	43.6	60.0	-16.4
16.495	22.2	21.3	43.5	60.0	-16.5
14.465	22.4	21.0	43.4	60.0	-16.6
14.913	22.2	21.1	43.3	60.0	-16.7
15.595	22.1	21.1	43.2	60.0	-16.8
15.051	21.8	21.1	42.9	60.0	-17.1
14.592	21.8	21.1	42.9	60.0	-17.1
16.315	21.6	21.2	42.8	60.0	-17.2
14.756	21.6	21.1	42.7	60.0	-17.3
15.614	21.5	21.1	42.6	60.0	-17.4
15.961	21.3	21.2	42.5	60.0	-17.5
14.857	21.3	21.1	42.4	60.0	-17.6
15.954	21.1	21.2	42.3	60.0	-17.7
15.894	21.0	21.2	42.2	60.0	-17.8
15.368	21.0	21.1	42.1	60.0	-17.9
16.166	20.9	21.2	42.1	60.0	-17.9
15.991	20.9	21.2	42.1	60.0	-17.9
16.618	20.8	21.3	42.1	60.0	-17.9
14.797	21.0	21.1	42.1	60.0	-17.9
14.499	20.8	21.0	41.8	60.0	-18.2
15.498	20.7	21.1	41.8	60.0	-18.2
14.957	20.7	21.1	41.8	60.0	-18.2

Peak Data - vs - Average Limit					
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.172	30.9	20.4	51.3	54.8	-3.6
16.062	23.7	21.2	44.9	50.0	-5.1
15.125	23.8	21.1	44.9	50.0	-5.1
16.051	22.8	21.2	44.0	50.0	-6.0
14.931	22.5	21.1	43.6	50.0	-6.4
16.495	22.2	21.3	43.5	50.0	-6.5
14.465	22.4	21.0	43.4	50.0	-6.6
14.913	22.2	21.1	43.3	50.0	-6.7
15.595	22.1	21.1	43.2	50.0	-6.8
15.051	21.8	21.1	42.9	50.0	-7.1
14.592	21.8	21.1	42.9	50.0	-7.1
16.315	21.6	21.2	42.8	50.0	-7.2
14.756	21.6	21.1	42.7	50.0	-7.3
15.614	21.5	21.1	42.6	50.0	-7.4
15.961	21.3	21.2	42.5	50.0	-7.5
14.857	21.3	21.1	42.4	50.0	-7.6
15.954	21.1	21.2	42.3	50.0	-7.7
15.894	21.0	21.2	42.2	50.0	-7.8
15.368	21.0	21.1	42.1	50.0	-7.9
16.166	20.9	21.2	42.1	50.0	-7.9
15.991	20.9	21.2	42.1	50.0	-7.9
16.618	20.8	21.3	42.1	50.0	-7.9
14.797	21.0	21.1	42.1	50.0	-7.9
14.499	20.8	21.0	41.8	50.0	-8.2
15.498	20.7	21.1	41.8	50.0	-8.2
14.957	20.7	21.1	41.8	50.0	-8.2

# **CONCLUSION**

Pass



EUT:	CD320 Commander Flex	Work Order:	CCOM0015
Serial Number:	900000009	Date:	06/29/2015
Customer:	Cardiocom	Temperature:	22.4°C
Attendees:	None	Relative Humidity:	57%
Customer Project:	None	Bar. Pressure:	980 mb
Tested By:	Dustin Sparks	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	CCOM0015-3

### **TEST SPECIFICATIONS**

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2009

# **TEST PARAMETERS**

Run #:	6	Line:	High Line	Add. Ext. Attenuation (dB):	0

### **COMMENTS**

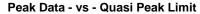
None

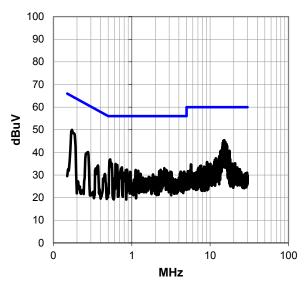
# **EUT OPERATING MODES**

Transmitting channel 8

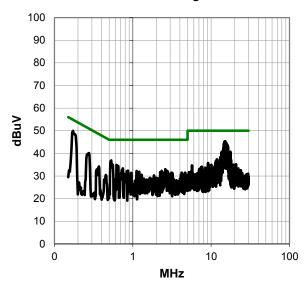
### **DEVIATIONS FROM TEST STANDARD**

None





# Peak Data - vs - Average Limit





# **RESULTS - Run #6**

Peak Data - vs - Quasi Peak Limit

Peak Data - vs - Quasi Peak Limit					
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
15.140	24.3	21.1	45.4	60.0	-14.6
0.172	29.6	20.4	50.0	64.8	-14.9
14.763	24.0	21.1	45.1	60.0	-14.9
14.857	23.9	21.1	45.0	60.0	-15.0
15.595	23.5	21.1	44.6	60.0	-15.4
14.950	23.3	21.1	44.4	60.0	-15.6
14.484	23.1	21.0	44.1	60.0	-15.9
14.465	22.8	21.0	43.8	60.0	-16.2
16.054	22.6	21.2	43.8	60.0	-16.2
15.043	22.7	21.1	43.8	60.0	-16.2
14.805	22.7	21.1	43.8	60.0	-16.2
15.704	22.6	21.2	43.8	60.0	-16.2
16.144	22.4	21.2	43.6	60.0	-16.4
15.786	22.1	21.2	43.3	60.0	-16.7
16.077	22.0	21.2	43.2	60.0	-16.8
15.898	22.0	21.2	43.2	60.0	-16.8
14.592	22.1	21.1	43.2	60.0	-16.8
15.980	21.9	21.2	43.1	60.0	-16.9
15.125	21.9	21.1	43.0	60.0	-17.0
14.969	21.9	21.1	43.0	60.0	-17.0
15.730	21.7	21.2	42.9	60.0	-17.1
16.245	21.6	21.2	42.8	60.0	-17.2
16.521	21.4	21.3	42.7	60.0	-17.3
14.569	21.6	21.0	42.6	60.0	-17.4
16.502	21.3	21.3	42.6	60.0	-17.4
15.025	21.4	21.1	42.5	60.0	-17.5

Peak Data - vs - Average Limit					
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
15.140	24.3	21.1	45.4	50.0	-4.6
0.172	29.6	20.4	50.0	54.8	-4.9
14.763	24.0	21.1	45.1	50.0	-4.9
14.857	23.9	21.1	45.0	50.0	-5.0
15.595	23.5	21.1	44.6	50.0	-5.4
14.950	23.3	21.1	44.4	50.0	-5.6
14.484	23.1	21.0	44.1	50.0	-5.9
14.465	22.8	21.0	43.8	50.0	-6.2
16.054	22.6	21.2	43.8	50.0	-6.2
15.043	22.7	21.1	43.8	50.0	-6.2
14.805	22.7	21.1	43.8	50.0	-6.2
15.704	22.6	21.2	43.8	50.0	-6.2
16.144	22.4	21.2	43.6	50.0	-6.4
15.786	22.1	21.2	43.3	50.0	-6.7
16.077	22.0	21.2	43.2	50.0	-6.8
15.898	22.0	21.2	43.2	50.0	-6.8
14.592	22.1	21.1	43.2	50.0	-6.8
15.980	21.9	21.2	43.1	50.0	-6.9
15.125	21.9	21.1	43.0	50.0	-7.0
14.969	21.9	21.1	43.0	50.0	-7.0
15.730	21.7	21.2	42.9	50.0	-7.1
16.245	21.6	21.2	42.8	50.0	-7.2
16.521	21.4	21.3	42.7	50.0	-7.3
14.569	21.6	21.0	42.6	50.0	-7.4
16.502	21.3	21.3	42.6	50.0	-7.4
15.025	21.4	21.1	42.5	50.0	-7.5

# **CONCLUSION**

Pass



EUT:	CD320 Commander Flex	Work Order:	CCOM0015
Serial Number:	900000009	Date:	06/29/2015
Customer:	Cardiocom	Temperature:	22.4°C
Attendees:	None	Relative Humidity:	57%
Customer Project:	None	Bar. Pressure:	980 mb
Tested By:	Dustin Sparks	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	CCOM0015-3

### **TEST SPECIFICATIONS**

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2009

# **TEST PARAMETERS**

Run #:	7	Line:	High Line	Add. Ext. Attenuation (dB):	0
i tuii ii .		Lii io.	i iigii Liiic	riad. Ext. rittoriaditori (ab).	1 0

### **COMMENTS**

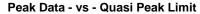
None

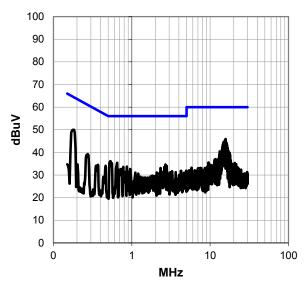
# **EUT OPERATING MODES**

Transmitting channel 9

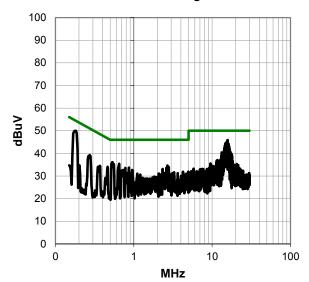
### **DEVIATIONS FROM TEST STANDARD**

None





# Peak Data - vs - Average Limit





# **RESULTS - Run #7**

Peak Data - vs - Quasi Peak Limit

Peak Data - vs - Quasi Peak Limit					
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
15.797	24.7	21.2	45.9	60.0	-14.1
15.487	24.2	21.1	45.3	60.0	-14.7
0.176	29.6	20.4	50.0	64.7	-14.7
15.569	24.0	21.1	45.1	60.0	-14.9
14.846	23.4	21.1	44.5	60.0	-15.5
15.536	23.2	21.1	44.3	60.0	-15.7
16.148	23.0	21.2	44.2	60.0	-15.8
16.047	22.8	21.2	44.0	60.0	-16.0
14.898	22.8	21.1	43.9	60.0	-16.1
14.763	22.8	21.1	43.9	60.0	-16.1
14.984	22.7	21.1	43.8	60.0	-16.2
14.592	22.5	21.1	43.6	60.0	-16.4
15.021	22.4	21.1	43.5	60.0	-16.5
15.689	22.3	21.2	43.5	60.0	-16.5
15.219	22.1	21.1	43.2	60.0	-16.8
15.976	21.8	21.2	43.0	60.0	-17.0
15.767	21.8	21.2	43.0	60.0	-17.0
16.524	21.7	21.3	43.0	60.0	-17.0
14.954	21.8	21.1	42.9	60.0	-17.1
14.652	21.6	21.1	42.7	60.0	-17.3
15.722	21.4	21.2	42.6	60.0	-17.4
16.338	21.3	21.2	42.5	60.0	-17.5
15.155	21.4	21.1	42.5	60.0	-17.5
14.909	21.4	21.1	42.5	60.0	-17.5
14.749	21.4	21.1	42.5	60.0	-17.5
14.331	21.4	21.0	42.4	60.0	-17.6

Peak Data - vs - Average Limit						
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)	
15.797	24.7	21.2	45.9	50.0	-4.1	
15.487	24.2	21.1	45.3	50.0	-4.7	
0.176	29.6	20.4	50.0	54.7	-4.7	
15.569	24.0	21.1	45.1	50.0	-4.9	
14.846	23.4	21.1	44.5	50.0	-5.5	
15.536	23.2	21.1	44.3	50.0	-5.7	
16.148	23.0	21.2	44.2	50.0	-5.8	
16.047	22.8	21.2	44.0	50.0	-6.0	
14.898	22.8	21.1	43.9	50.0	-6.1	
14.763	22.8	21.1	43.9	50.0	-6.1	
14.984	22.7	21.1	43.8	50.0	-6.2	
14.592	22.5	21.1	43.6	50.0	-6.4	
15.021	22.4	21.1	43.5	50.0	-6.5	
15.689	22.3	21.2	43.5	50.0	-6.5	
15.219	22.1	21.1	43.2	50.0	-6.8	
15.976	21.8	21.2	43.0	50.0	-7.0	
15.767	21.8	21.2	43.0	50.0	-7.0	
16.524	21.7	21.3	43.0	50.0	-7.0	
14.954	21.8	21.1	42.9	50.0	-7.1	
14.652	21.6	21.1	42.7	50.0	-7.3	
15.722	21.4	21.2	42.6	50.0	-7.4	
16.338	21.3	21.2	42.5	50.0	-7.5	
15.155	21.4	21.1	42.5	50.0	-7.5	
14.909	21.4	21.1	42.5	50.0	-7.5	
14.749	21.4	21.1	42.5	50.0	-7.5	
14.331	21.4	21.0	42.4	50.0	-7.6	

# **CONCLUSION**

Pass



EUT:	CD320 Commander Flex	Work Order:	CCOM0015
Serial Number:	900000009	Date:	06/29/2015
Customer:	Cardiocom	Temperature:	22.4°C
Attendees:	None	Relative Humidity:	57%
Customer Project:	None	Bar. Pressure:	980 mb
Tested By:	Dustin Sparks	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	CCOM0015-3

### **TEST SPECIFICATIONS**

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2009

# **TEST PARAMETERS**

Run #:	8	Line:	Neutral	Add. Ext. Attenuation (dB):	0

### **COMMENTS**

None

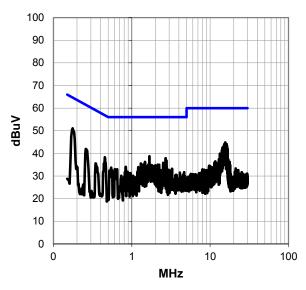
# **EUT OPERATING MODES**

Transmitting channel 9

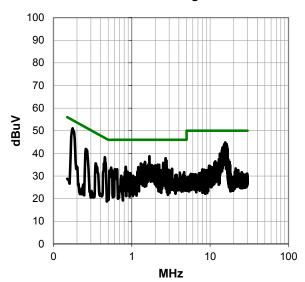
### **DEVIATIONS FROM TEST STANDARD**

None

#### Peak Data - vs - Quasi Peak Limit



# Peak Data - vs - Average Limit





# **RESULTS - Run #8**

Peak Data - vs - Quasi Peak Limit

	I Cak Da	ita vo c	tuasi i cai	\ LIIIII	
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.176	30.7	20.4	51.1	64.7	-13.6
15.588	23.7	21.1	44.8	60.0	-15.2
16.237	22.9	21.2	44.1	60.0	-15.9
15.211	22.9	21.1	44.0	60.0	-16.0
15.118	22.9	21.1	44.0	60.0	-16.0
15.976	22.8	21.2	44.0	60.0	-16.0
16.412	22.3	21.2	43.5	60.0	-16.5
16.062	21.9	21.2	43.1	60.0	-16.9
15.364	21.9	21.1	43.0	60.0	-17.0
15.166	21.8	21.1	42.9	60.0	-17.1
15.409	21.7	21.1	42.8	60.0	-17.2
15.144	21.7	21.1	42.8	60.0	-17.2
1.680	18.5	20.3	38.8	56.0	-17.2
14.625	21.7	21.1	42.8	60.0	-17.2
14.428	21.6	21.0	42.6	60.0	-17.4
14.909	21.5	21.1	42.6	60.0	-17.4
15.252	21.3	21.1	42.4	60.0	-17.6
15.196	21.2	21.1	42.3	60.0	-17.7
14.857	21.1	21.1	42.2	60.0	-17.8
14.674	21.1	21.1	42.2	60.0	-17.8
16.327	20.9	21.2	42.1	60.0	-17.9
14.816	21.0	21.1	42.1	60.0	-17.9
15.480	20.9	21.1	42.0	60.0	-18.0
16.151	20.8	21.2	42.0	60.0	-18.0
15.081	20.9	21.1	42.0	60.0	-18.0
15.032	20.9	21.1	42.0	60.0	-18.0

Peak Data - vs - Average Limit						
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)	
0.176	30.7	20.4	51.1	54.7	-3.6	
15.588	23.7	21.1	44.8	50.0	-5.2	
16.237	22.9	21.2	44.1	50.0	-5.9	
15.211	22.9	21.1	44.0	50.0	-6.0	
15.118	22.9	21.1	44.0	50.0	-6.0	
15.976	22.8	21.2	44.0	50.0	-6.0	
16.412	22.3	21.2	43.5	50.0	-6.5	
16.062	21.9	21.2	43.1	50.0	-6.9	
15.364	21.9	21.1	43.0	50.0	-7.0	
15.166	21.8	21.1	42.9	50.0	-7.1	
15.409	21.7	21.1	42.8	50.0	-7.2	
15.144	21.7	21.1	42.8	50.0	-7.2	
1.680	18.5	20.3	38.8	46.0	-7.2	
14.625	21.7	21.1	42.8	50.0	-7.2	
14.428	21.6	21.0	42.6	50.0	-7.4	
14.909	21.5	21.1	42.6	50.0	-7.4	
15.252	21.3	21.1	42.4	50.0	-7.6	
15.196	21.2	21.1	42.3	50.0	-7.7	
14.857	21.1	21.1	42.2	50.0	-7.8	
14.674	21.1	21.1	42.2	50.0	-7.8	
16.327	20.9	21.2	42.1	50.0	-7.9	
14.816	21.0	21.1	42.1	50.0	-7.9	
15.480	20.9	21.1	42.0	50.0	-8.0	
16.151	20.8	21.2	42.0	50.0	-8.0	
15.081	20.9	21.1	42.0	50.0	-8.0	
15.032	20.9	21.1	42.0	50.0	-8.0	

# **CONCLUSION**

Pass



EUT:	CD320 Commander Flex	Work Order:	CCOM0015
Serial Number:	900000009	Date:	06/29/2015
Customer:	Cardiocom	Temperature:	22.4°C
Attendees:	None	Relative Humidity:	57%
Customer Project:	None	Bar. Pressure:	980 mb
Tested By:	Dustin Sparks	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	CCOM0015-3

### **TEST SPECIFICATIONS**

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2009

# **TEST PARAMETERS**

Run #:	9	Line:	Neutral	Add. Ext. Attenuation (dB):	0

### **COMMENTS**

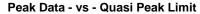
None

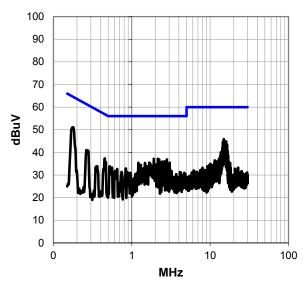
# **EUT OPERATING MODES**

Transmitting channel 10

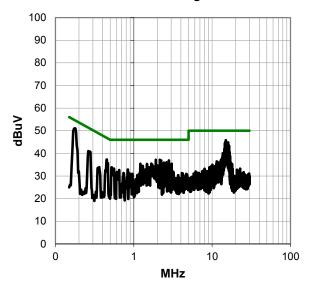
### **DEVIATIONS FROM TEST STANDARD**

None





# Peak Data - vs - Average Limit





# **RESULTS - Run #9**

Peak Data - vs - Quasi Peak Limit

Peak Data - VS - Quasi Peak Limit					
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.176	30.7	20.4	51.1	64.7	-13.6
14.950	24.7	21.1	45.8	60.0	-14.2
14.860	24.1	21.1	45.2	60.0	-14.8
15.991	23.6	21.2	44.8	60.0	-15.2
15.122	23.7	21.1	44.8	60.0	-15.2
14.562	23.4	21.0	44.4	60.0	-15.6
14.670	23.1	21.1	44.2	60.0	-15.8
16.166	22.6	21.2	43.8	60.0	-16.2
15.595	22.5	21.1	43.6	60.0	-16.4
16.431	22.1	21.2	43.3	60.0	-16.7
15.808	21.7	21.2	42.9	60.0	-17.1
15.207	21.7	21.1	42.8	60.0	-17.2
15.151	21.7	21.1	42.8	60.0	-17.2
15.036	21.7	21.1	42.8	60.0	-17.2
15.879	21.5	21.2	42.7	60.0	-17.3
14.745	21.5	21.1	42.6	60.0	-17.4
14.816	21.4	21.1	42.5	60.0	-17.5
15.685	21.3	21.2	42.5	60.0	-17.5
15.174	21.3	21.1	42.4	60.0	-17.6
14.417	21.2	21.0	42.2	60.0	-17.8
16.524	20.9	21.3	42.2	60.0	-17.8
15.569	20.8	21.1	41.9	60.0	-18.1
14.980	20.8	21.1	41.9	60.0	-18.1
16.069	20.6	21.2	41.8	60.0	-18.2
15.237	20.7	21.1	41.8	60.0	-18.2
15.282	20.4	21.1	41.5	60.0	-18.5

Peak Data - vs - Average Limit							
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)		
0.176	30.7	20.4	51.1	54.7	-3.6		
14.950	24.7	21.1	45.8	50.0	-4.2		
14.860	24.1	21.1	45.2	50.0	-4.8		
15.991	23.6	21.2	44.8	50.0	-5.2		
15.122	23.7	21.1	44.8	50.0	-5.2		
14.562	23.4	21.0	44.4	50.0	-5.6		
14.670	23.1	21.1	44.2	50.0	-5.8		
16.166	22.6	21.2	43.8	50.0	-6.2		
15.595	22.5	21.1	43.6	50.0	-6.4		
16.431	22.1	21.2	43.3	50.0	-6.7		
15.808	21.7	21.2	42.9	50.0	-7.1		
15.207	21.7	21.1	42.8	50.0	-7.2		
15.151	21.7	21.1	42.8	50.0	-7.2		
15.036	21.7	21.1	42.8	50.0	-7.2		
15.879	21.5	21.2	42.7	50.0	-7.3		
14.745	21.5	21.1	42.6	50.0	-7.4		
14.816	21.4	21.1	42.5	50.0	-7.5		
15.685	21.3	21.2	42.5	50.0	-7.5		
15.174	21.3	21.1	42.4	50.0	-7.6		
14.417	21.2	21.0	42.2	50.0	-7.8		
16.524	20.9	21.3	42.2	50.0	-7.8		
15.569	20.8	21.1	41.9	50.0	-8.1		
14.980	20.8	21.1	41.9	50.0	-8.1		
16.069	20.6	21.2	41.8	50.0	-8.2		
15.237	20.7	21.1	41.8	50.0	-8.2		
15.282	20.4	21.1	41.5	50.0	-8.5		

# **CONCLUSION**

Pass



EUT:	CD320 Commander Flex	Work Order:	CCOM0015
Serial Number:	900000009	Date:	06/29/2015
Customer:	Cardiocom	Temperature:	22.4°C
Attendees:	None	Relative Humidity:	57%
Customer Project:	None	Bar. Pressure:	980 mb
Tested By:	Dustin Sparks	Job Site:	MN03
Power:	110VAC/60Hz	Configuration:	CCOM0015-3

### **TEST SPECIFICATIONS**

Specification:	Method:
FCC 15.207:2015	ANSI C63.10:2009

# **TEST PARAMETERS**

Run #:	10	Line:	High Line	Add. Ext. Attenuation (dB):	0

### **COMMENTS**

None

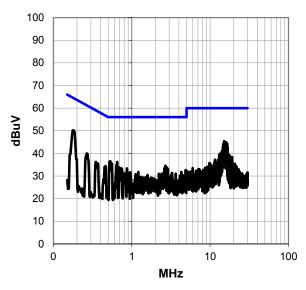
# **EUT OPERATING MODES**

Transmitting channel 10

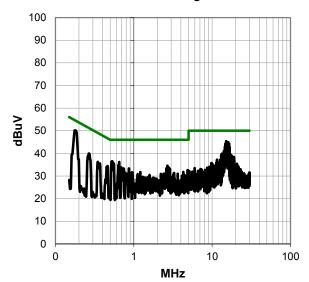
### **DEVIATIONS FROM TEST STANDARD**

None

#### Peak Data - vs - Quasi Peak Limit



# Peak Data - vs - Average Limit





# **RESULTS - Run #10**

Peak Data - vs - Quasi Peak Limit

	I Cak Da	ia vo s	taabi i cai		
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)
0.176	29.8	20.4	50.2	64.7	-14.5
15.125	24.3	21.1	45.4	60.0	-14.6
16.069	23.7	21.2	44.9	60.0	-15.1
15.797	23.1	21.2	44.3	60.0	-15.7
15.711	23.1	21.2	44.3	60.0	-15.7
15.028	23.1	21.1	44.2	60.0	-15.8
14.946	23.1	21.1	44.2	60.0	-15.8
14.771	23.1	21.1	44.2	60.0	-15.8
16.521	22.9	21.3	44.2	60.0	-15.8
16.151	22.9	21.2	44.1	60.0	-15.9
15.875	22.3	21.2	43.5	60.0	-16.5
14.890	22.3	21.1	43.4	60.0	-16.6
16.177	22.0	21.2	43.2	60.0	-16.8
14.599	22.0	21.1	43.1	60.0	-16.9
15.987	21.8	21.2	43.0	60.0	-17.0
15.603	21.7	21.1	42.8	60.0	-17.2
16.771	21.5	21.3	42.8	60.0	-17.2
14.957	21.7	21.1	42.8	60.0	-17.2
16.092	21.5	21.2	42.7	60.0	-17.3
15.636	21.4	21.2	42.6	60.0	-17.4
15.566	21.3	21.1	42.4	60.0	-17.6
16.260	21.2	21.2	42.4	60.0	-17.6
15.040	21.3	21.1	42.4	60.0	-17.6
15.689	21.2	21.2	42.4	60.0	-17.6
15.204	21.2	21.1	42.3	60.0	-17.7
15.222	21.1	21.1	42.2	60.0	-17.8

Peak Data - vs - Average Limit						
Freq (MHz)	Amp. (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Margin (dB)	
0.176	29.8	20.4	50.2	54.7	-4.5	
15.125	24.3	21.1	45.4	50.0	-4.6	
16.069	23.7	21.2	44.9	50.0	-5.1	
15.797	23.1	21.2	44.3	50.0	-5.7	
15.711	23.1	21.2	44.3	50.0	-5.7	
15.028	23.1	21.1	44.2	50.0	-5.8	
14.946	23.1	21.1	44.2	50.0	-5.8	
14.771	23.1	21.1	44.2	50.0	-5.8	
16.521	22.9	21.3	44.2	50.0	-5.8	
16.151	22.9	21.2	44.1	50.0	-5.9	
15.875	22.3	21.2	43.5	50.0	-6.5	
14.890	22.3	21.1	43.4	50.0	-6.6	
16.177	22.0	21.2	43.2	50.0	-6.8	
14.599	22.0	21.1	43.1	50.0	-6.9	
15.987	21.8	21.2	43.0	50.0	-7.0	
15.603	21.7	21.1	42.8	50.0	-7.2	
16.771	21.5	21.3	42.8	50.0	-7.2	
14.957	21.7	21.1	42.8	50.0	-7.2	
16.092	21.5	21.2	42.7	50.0	-7.3	
15.636	21.4	21.2	42.6	50.0	-7.4	
15.566	21.3	21.1	42.4	50.0	-7.6	
16.260	21.2	21.2	42.4	50.0	-7.6	
15.040	21.3	21.1	42.4	50.0	-7.6	
15.689	21.2	21.2	42.4	50.0	-7.6	
15.204	21.2	21.1	42.3	50.0	-7.7	
15.222	21.1	21.1	42.2	50.0	-7.8	

# **CONCLUSION**

Pass

PSA-ESCI 2015.03.03



# FIELD STRENGTH OF HARMONICS AND SPURIOUS RADIATED EMISSIONS

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit

#### MODES OF OPERATION

Transmitting low power; low channel and high channel.

#### POWER SETTINGS INVESTIGATED

110VAC/60Hz

#### CONFIGURATIONS INVESTIGATED

CCOM0015 - 4

#### FREQUENCY RANGE INVESTIGATED

Start Frequency 30 MHz Stop Frequency 26500 MHz

#### SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

#### TEST EQUIPMENT

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Low Pass Filter, 0 - 1000 MHz	Micro-Tronics	LPM50004	HGK	3/2/2015	12 mo
High Pass Filter, 2.8 - 18 GHz	Micro-Tronics	HPM50111	HGQ	3/2/2015	12 mo
Attenuator, 20 dB, 'SMA'	S.M. Electronics	SA6-20	REO	3/2/2015	12 mo
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	10/3/2014	12 mo
		18-26GHz Standard Gain Horn			
MN05 Cable	Northwest EMC	Cable	MNP	10/3/2014	12 mo
Antenna, Horn	ETS Lindgren	3160-09	AHG	NCR	0 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVW	3/2/2015	12 mo
Antenna, Horn	ETS Lindgren	3160-08	AIQ	NCR	0 mo
MN05 Cables	ESM Cable Corp.	Standard Gain Horn Cables	MNJ	5/5/2015	12 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVV	3/2/2015	12 mo
Antenna, Horn	ETS Lindgren	3160-07	AXP	NCR	0 mo
Pre-Amplifier	Miteq	AMF-3D-00100800-32-13P	AVX	3/2/2015	12 mo
		Double Ridge Guide Horn			
MN05 Cables	ESM Cable Corp.	Cables	MNI	5/5/2015	12 mo
Antenna, Horn	ETS Lindgren	3115	AJA	6/3/2014	24 mo
Pre-Amplifier	Miteq	AM-1616-1000	PAD	3/2/2015	12 mo
MN05 Cables	ESM Cable Corp.	Bilog Cables	MNH	3/30/2015	12 mo
Antenna, Biconilog	Teseq	CBL 6141B	AYD	12/17/2013	24 mo
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2015	12 mo

# MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

#### TEST DESCRIPTION

The antennas to be used with the EUT were tested. The EUT was transmitting and receiving while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes. A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

# FIELD STRENGTH OF HARMONICS AND SPURIOUS RADIATED EMISSIONS

PSA-ESCI 2015.03.03 EmiR5 2015.05.29

100000

QP

■ PK ◆ AV

	00011001		0=10011=					
Work Order:	CCOM0015	Date:	07/08/15	- A 11 D 2				
Project:	None	Temperature:	23.4 °C	Vistin X saids				
Job Site:	MN05	Humidity:	44.5% RH	-(				
Serial Number:	900000009	Barometric Pres.:	989.1 mbar	Tested by: Dustin Sparks				
EUT:	CD320 Commander F	lex						
Configuration:	4							
Customer:	Cardiocom							
Attendees:	None							
EUT Power:	110VAC/60Hz							
Operating Mode:	Transmitting low power	er; low channel and high	channel.					
Deviations:	None							
Comments:	None							
Test Specifications			Test Me	ethod				
FCC 15.249:2015			ANSI C	63.10:2009				

1000

MHz

Freq														
2484 188 31.2 -1.9 1.0 187.0 3.0 20.0 Horz AV 0.0 49.2 54.0 -4.8 High ch, EUT on side 2486 277 31.1 -1.9 1.0 271.9 3.0 20.0 Vert AV 0.0 49.2 54.0 -4.8 High ch, EUT on side 2484 273 31.1 -1.9 3.1 225.0 3.0 20.0 Vert AV 0.0 49.2 54.0 -4.8 High ch, EUT wert 2484 39.3 31.1 -1.9 3.1 225.0 3.0 20.0 Vert AV 0.0 49.2 54.0 -4.8 High ch, EUT wert 2484 39.3 31.1 -1.9 3.1 25.0 3.0 20.0 Vert AV 0.0 49.2 54.0 -4.8 High ch, EUT wert 2484 39.3 31.1 -1.9 3.1 25.0 3.0 20.0 Horz AV 0.0 49.2 54.0 -4.8 High ch, EUT wert 2484 39.3 31.1 -1.9 3.1 25.0 3.0 20.0 Horz AV 0.0 49.2 54.0 -4.8 High ch, EUT wert 2484 39.3 31.1 -1.9 3.1 225.0 3.0 20.0 Horz AV 0.0 49.2 54.0 -5.3 High ch, EUT on side 2389 108 0.9 -2.2 13.3 35.0 30.0 20.0 Horz AV 0.0 48.7 54.0 -5.3 Low ch, EUT on side 2483 25.2 1 4.0 10.0 35.0 30.0 20.0 Horz AV 0.0 48.6 54.0 -5.4 Low ch, EUT on side 2483 25.2 1 4.0 10.0 35.0 30.0 20.0 Horz AV 0.0 48.6 54.0 -5.4 Low ch, EUT on side 2483 25.2 1 4.0 10.0 0.0 30.0 0.0 Vert AV 0.0 42.9 54.0 -5.4 Low ch, EUT on side 2483 25.2 1 4.0 10.0 0.0 30.0 0.0 Horz AV 0.0 42.9 54.0 -11.1 Low ch, EUT on side 2486 25.2 1 4.0 1.0 149.1 3.0 0.0 0 Horz AV 0.0 42.9 54.0 -11.1 Low ch, EUT on side 2486 25.2 1 4.0 1.0 12.1 1.0 25.0 3.0 0.0 Vert AV 0.0 42.9 54.0 -11.1 Low ch, EUT on side 2486 25.2 1 4.0 1.0 12.1 1.0 156.1 3.0 20.0 Horz AV 0.0 42.8 54.0 -11.2 High ch, EUT on side 2486 25.2 1 4.0 1.0 12.1 1.0 156.1 3.0 20.0 Horz AV 0.0 42.8 54.0 -11.2 High ch, EUT on side 2486 25.2 1 4.0 1.0 12.1 1.0 156.1 3.0 20.0 Horz AV 0.0 42.8 54.0 -11.2 High ch, EUT on side 487 25.2 1 4.0 1.0 1.0 156.1 3.0 20.0 Horz AV 0.0 42.8 54.0 -11.2 High ch, EUT on side 487 25.2 1 4.0 1.0 1.0 156.1 3.0 20.0 Horz AV 0.0 42.8 54.0 -11.2 High ch, EUT on side 487 25.2 1 4.0 1.0 1.0 156.1 3.0 20.0 Horz AV 0.0 42.8 54.0 -11.2 High ch, EUT on side 487 25.2 1 4.0 1.0 1.0 156.1 3.0 20.0 Horz AV 0.0 40.0 41.3 54.0 -12.9 High ch, EUT on side 487 25.2 1 4.0 1.0 156.1 3.0 240.9 3.0 0.0 Vert AV 0.0 42.8 54.0 -11.5 High ch, EUT on side 487 25.2 1 4.0 1.0 156.1 3.0 240.9 3.0 0.0 Vert AV 0.0 40.0	(MHz)	(dBuV)	(dB)	(meters)	(degrees)	(meters)	Attenuation (dB)	Transducer Type		Adjustment (dB)	(dBuV/m)	(dBuV/m)	Spec. (dB)	
2486.483 31.1 -1.9 1.0 156.1 3.0 20.0 Horz AV 0.0 49.2 54.0 -4.8 High ch, EUT horz 2484.933 31.1 -1.9 3.0 20.0 Vert AV 0.0 49.2 54.0 -4.8 High ch, EUT horz 2484.933 31.1 -1.9 3.3 95.0 3.0 20.0 Vert AV 0.0 49.2 54.0 -4.8 High ch, EUT horz 2484.483 31.1 -1.9 3.3 95.0 3.0 20.0 Horz AV 0.0 49.2 54.0 -4.8 High ch, EUT wert 1.0 49.4 54.0 49.2 54.0 -4.8 High ch, EUT wert 1.0 49.4 54.0 49.2 54.0 -4.8 High ch, EUT wert 1.0 49.2 54.0 4.8 High ch, EUT wert 1.0 49.2 54.0 4.1 4.1 High ch, EUT on side 1.0 49.3 54.0 4.1 High ch, EUT on side 1.0 4	2483.650	31.7	-1.9	1.0	353.0	3.0	20.0		AV	0.0	49.8	54.0	-4.2	High ch, EUT on side
2485.217 31.1 -1.9 3.1 -225.0 3.0 20.0 Vert AV 0.0 49.2 54.0 -4.8 High chi, EUT norz 24248.483 31.1 -1.9 3.1 225.0 3.0 20.0 Vert AV 0.0 49.2 54.0 -4.8 High chi, EUT vert 2389.108 30.9 -2.2 1.3 335.0 3.0 20.0 Vert AV 0.0 49.2 54.0 -4.8 High chi, EUT vert 2389.108 30.9 -2.2 1.3 35.0 3.0 20.0 Vert AV 0.0 48.6 54.0 -5.4 Low chi, EUT on side 2483.525 47.7 -1.9 1.0 254.1 3.0 20.0 Vert PK 0.0 67.8 74.0 -6.2 High chi, EUT on side 2483.525 48.7 -1.9 1.0 353.0 3.0 20.0 Vert PK 0.0 67.8 74.0 -6.2 High chi, EUT on side 2483.525 48.7 -1.9 1.0 353.0 3.0 20.0 Vert AV 0.0 42.9 54.0 -5.4 Low chi, EUT on side 7421.633 28.3 14.6 1.0 0.0 3.0 0.0 Vert AV 0.0 42.9 54.0 -11.1 Low chi, EUT on side 7421.633 28.3 14.6 1.0 308.9 3.0 0.0 Vert AV 0.0 42.9 54.0 -11.1 Low chi, EUT on side 7437.359 28.2 14.6 1.0 308.9 3.0 0.0 Horz AV 0.0 42.9 54.0 -11.1 Low chi, EUT on side 7435.255 28.2 14.6 1.0 22.1 3.0 0.0 Vert AV 0.0 42.8 54.0 -11.2 High chi, EUT on side 7435.252 28.2 14.6 1.0 22.1 3.0 0.0 Vert AV 0.0 42.8 54.0 -11.2 High chi, EUT on side 7435.253 48.6 -1.9 1.0 156.1 3.0 20.0 Horz PK 0.0 61.7 74.0 -1.23 High chi, EUT on side 7487.7223 34.6 6.7 1.0 250.0 3.0 0.0 Vert AV 0.0 42.8 54.0 -11.2 High chi, EUT on side 7487.7223 34.6 6.7 1.0 250.0 3.0 0.0 Vert AV 0.0 42.8 54.0 -11.2 High chi, EUT on side 7487.7223 34.6 6.7 1.0 250.0 3.0 0.0 Vert AV 0.0 41.1 54.0 -1.27 Low chi, EUT on side 7487.7223 34.6 6.7 1.0 250.0 3.0 0.0 Vert AV 0.0 41.1 54.0 -1.27 Low chi, EUT on side 7487.7223 34.6 6.7 1.0 250.0 3.0 0.0 Vert AV 0.0 41.1 54.0 -1.27 Low chi, EUT on side 7487.7223 34.6 6.7 1.0 250.0 3.0 0.0 Vert AV 0.0 41.1 54.0 -1.27 Low chi, EUT on side 7487.7223 34.6 6.7 1.0 250.0 3.0 0.0 Vert AV 0.0 41.1 54.0 -1.27 Low chi, EUT on side 7487.7223 34.5 5 -1.9 3.3 56.0 3.0 0.0 Vert AV 0.0 40.0 50.6 74.0 -1.3 High chi, EUT on side 7487.7223 34.2 5.1 3.3 35.0 3.0 0.0 Vert AV 0.0 40.0 50.6 74.0 -1.3 High chi, EUT on side 7487.7223 34.2 5.1 3.3 35.0 3.0 0.0 Vert AV 0.0 40.0 50.6 74.0 -1.3 High chi, EUT on side 7487.7323 35.6 6.8 1.0 319.9 3.0 0.0 Horz AV 0.0 40.4														
2484 483 31.1 -1.9 3.1 225.0 3.0 20.0 Vert AV 0.0 49.2 54.0 -4.8 High ch, EUT vert 2484 483 31.1 -1.9 3.3 96.0 3.0 20.0 Horz AV 0.0 49.2 54.0 -4.8 High ch, EUT vert 2484 483 30.8 -2.2 1.0 224.1 3.0 20.0 Horz AV 0.0 48.6 54.0 -5.3 Low ch, EUT on side 2389.433 30.8 -2.2 1.0 224.1 3.0 20.0 Horz AV 0.0 48.6 54.0 -5.3 Low ch, EUT on side 2483.550 49.7 -1.9 1.0 353.0 3.0 20.0 Vert PK 0.0 67.8 74.0 -6.2 High ch, EUT on side 2483.550 45.3 -1.9 1.0 353.0 3.0 20.0 Horz PK 0.0 63.4 74.0 -1.6 High ch, EUT on side 2483.550 45.3 -1.9 1.0 308.9 3.0 0.0 Vert AV 0.0 42.9 54.0 -11.1 Low ch, EUT on side 7421.053 28.3 14.6 1.0 0.0 3.0 0.0 Horz AV 0.0 42.9 54.0 -11.1 Low ch, EUT on side 7421.053 28.2 14.6 1.0 308.9 3.0 0.0 Horz AV 0.0 42.9 54.0 -11.1 Low ch, EUT on side 7421.053 28.2 14.6 1.0 149.1 3.0 0.0 Horz AV 0.0 42.9 54.0 -11.1 Low ch, EUT on side 7428.6 753 28.2 29.1 4.6 1.0 149.1 3.0 0.0 Horz AV 0.0 42.9 54.0 -11.1 Low ch, EUT on side 7428.6 753 44.6 1.0 1.0 149.1 3.0 0.0 Horz AV 0.0 42.9 54.0 -11.1 Low ch, EUT on side 7428.6 753 44.6 1.0 1.0 149.1 3.0 0.0 Horz AV 0.0 42.9 54.0 -11.2 Low ch, EUT on side 7428.6 753 44.6 1.0 1.0 155.1 3.0 20.0 Horz AV 0.0 42.9 54.0 -11.2 Low ch, EUT on side 7428.6 753 44.6 1.0 1.0 155.1 3.0 20.0 Horz AV 0.0 42.9 54.0 -11.2 Low ch, EUT on side 7487.7 40.0 1.2 4.8 54.0 -11.2 High ch, EUT on side 7487.7 40.0 1.2 4.8 54.0 -11.2 High ch, EUT on side 7487.7 40.0 1.1 4.9 1.0 2.0 1.0 240.9 3.0 0.0 Vert AV 0.0 41.3 54.0 -12.7 Low ch, EUT on side 7487.7 40.0 1.1 4.9 1.0 2.0 1.0 240.9 3.0 0.0 Vert AV 0.0 41.3 54.0 -12.7 Low ch, EUT on side 7485.3 34.3 6.8 1.0 240.9 3.0 0.0 Vert AV 0.0 41.1 54.0 -12.7 Low ch, EUT on side 7485.3 34.3 6.8 1.0 240.9 3.0 0.0 Vert AV 0.0 60.6 74.0 -13.4 High ch, EUT on side 7485.3 34.3 6.8 1.0 25.0 3.0 20.0 Horz AV 0.0 60.6 74.0 -13.4 High ch, EUT on side 7485.3 34.3 6.8 1.0 25.1 3.0 20.0 Horz AV 0.0 60.6 74.0 -13.4 High ch, EUT on side 7485.3 33.7 6.8 1.0 25.1 3.0 20.0 Vert PK 0.0 60.6 74.0 -13.4 High ch, EUT on side 7485.3 33.6 6.8 1.0 25.1 3.0 20.0 Horz AV 0.0 60.6 74.0 -1														
2484.483 31.1 -1.9 3.3 96.0 3.0 20.0 Horz AV 0.0 49.2 54.0 -4.8 High ch, EUT vert 2389.108 0.9 -2.2 1.3 335.0 3.0 20.0 Vert AV 0.0 48.6 54.0 -5.4 Low ch, EUT on side 2483.525 49.7 -1.9 1.0 254.1 3.0 20.0 Vert PK 0.0 67.8 74.0 -6.2 High ch, EUT on side 2483.525 48.7 -1.9 1.0 187.0 3.0 20.0 Vert PK 0.0 67.8 74.0 -6.2 High ch, EUT on side 2483.525 45.3 -1.9 1.0 187.0 3.0 20.0 Vert AV 0.0 42.9 54.0 -1.11 Low ch, EUT on side 7421.633 28.3 14.6 1.0 0.0 3.0 0.0 Vert AV 0.0 42.9 54.0 -1.11 Low ch, EUT on side 7437.550 22 14.6 1.0 308.9 3.0 0.0 Horz AV 0.0 42.9 54.0 -1.11 Low ch, EUT on side 7437.525 28.2 14.6 1.0 22.1 3.0 0.0 Vert AV 0.0 42.8 54.0 -1.12 High ch, EUT on side 7435.255 48.6 1.0 1.0 22.1 3.0 0.0 Vert AV 0.0 42.8 54.0 -1.12 High ch, EUT on side 7437.525 28.2 14.6 1.0 22.1 3.0 0.0 Vert AV 0.0 Horz AV 0.0 1.2 8 54.0 -1.12 High ch, EUT on side 7487.732 34.6 0.7 1.0 250.0 3.0 0.0 Horz AV 0.0 42.8 54.0 -1.12 High ch, EUT on side 7487.732 34.6 0.7 1.0 250.0 3.0 0.0 Vert AV 0.0 42.8 54.0 -1.12 High ch, EUT on side 7487.732 34.6 0.7 1.0 250.0 3.0 0.0 Vert AV 0.0 41.3 54.0 -1.12 High ch, EUT on side 7487.732 34.6 0.7 1.0 250.0 3.0 0.0 Vert AV 0.0 41.3 54.0 -1.12 High ch, EUT on side 7487.732 34.6 0.7 1.0 250.0 3.0 0.0 Vert AV 0.0 41.3 54.0 -1.12 High ch, EUT on side 7487.732 34.5 1.0 3.0 20.0 Vert AV 0.0 41.3 54.0 -1.12 High ch, EUT on side 7487.732 34.5 1.0 3.0 20.0 Vert AV 0.0 41.3 54.0 -1.12 High ch, EUT on side 7487.732 34.5 1.0 3.0 20.0 Vert AV 0.0 41.1 54.0 -1.27 Low ch, EUT on side 7487.732 34.5 1.0 3.0 20.0 Vert AV 0.0 41.1 54.0 -1.27 Low ch, EUT on side 7487.733 3.0 2.0 0.0 Vert AV 0.0 41.1 54.0 -1.27 Low ch, EUT on side 7487.733 3.0 3.0 0.0 Vert AV 0.0 40.5 54.0 -1.35 High ch, EUT on Total 7487.733 3.0 3.0 0.0 Horz AV 0.0 40.4 54.0 -1.35 High ch, EUT on Total 7487.733 3.0 3.0 0.0 Horz AV 0.0 40.4 54.0 -1.35 High ch, EUT on Side 7487.733 3.0 6.8 1.0 358.9 3.0 0.0 Horz AV 0.0 40.4 54.0 -1.35 High ch, EUT on Side 7497.342 32.3 6.8 1.0 358.9 3.0 0.0 Horz AV 0.0 40.4 54.0 -1.35 High ch, EUT on Side 7497.342 33.														
2389,108 30.9 -2.2 1.3 335.0 3.0 20.0 Vert AV 0.0 48.7 54.0 5.3 Low ch, EUT on side 2483.555 49.7 -1.9 1.0 533.0 3.0 20.0 Vert PK 0.0 67.8 74.0 6.2 High ch, EUT on side 2483.555 49.7 -1.9 1.0 187.0 3.0 20.0 Vert PK 0.0 63.4 74.0 6.2 High ch, EUT on side 2483.555 49.7 -1.9 1.0 308.0 3.0 0.0 Vert AV 0.0 42.9 54.0 -11.1 Low ch, EUT on side 7421.683 28.3 14.6 1.0 0.0 3.0 0.0 Horz AV 0.0 42.9 54.0 -11.1 Low ch, EUT on side 7421.683 28.3 14.6 1.0 149.1 3.0 0.0 Horz AV 0.0 42.9 54.0 -11.1 Low ch, EUT on side 7437.350 28.2 14.6 1.0 149.1 3.0 0.0 Horz AV 0.0 42.8 54.0 -11.2 High ch, EUT on side 7437.350 28.2 14.6 1.0 149.1 3.0 0.0 Horz AV 0.0 42.8 54.0 -11.2 High ch, EUT on side 2486.758 43.6 -1.9 1.0 156.1 3.0 0.0 Vert AV 0.0 42.8 54.0 -11.2 High ch, EUT on side 4947.292 34.6 6.7 1.0 250.0 3.0 0.0 Vert AV 0.0 42.8 54.0 -11.2 High ch, EUT on side 4947.292 34.6 6.7 1.0 250.0 3.0 0.0 Vert AV 0.0 41.3 54.0 -12.9 High ch, EUT on side 4947.292 34.6 6.7 1.0 250.0 3.0 0.0 Vert AV 0.0 41.3 54.0 -12.9 High ch, EUT on side 4957.392 34.3 6.8 1.0 240.9 3.0 0.0 Vert AV 0.0 41.3 54.0 -12.9 High ch, EUT on side 4957.392 34.3 6.8 1.0 240.9 3.0 0.0 Vert AV 0.0 41.3 54.0 -12.9 High ch, EUT on side 2487.292 42.5 -1.9 3.1 225.0 3.0 20.0 Vert PK 0.0 60.6 74.0 -13.4 High ch, EUT on side 2487.292 42.5 -1.9 3.1 325.0 3.0 20.0 Vert PK 0.0 60.6 74.0 -13.4 High ch, EUT on side 2483.890 42.4 -1.9 1.0 224.1 3.0 20.0 Horz PK 0.0 60.6 74.0 -13.4 High ch, EUT on side 4957.388 33.7 6.8 1.0 250.3 30.0 0.0 Horz PK 0.0 60.6 74.0 -13.4 High ch, EUT on side 2483.890 42.4 -1.9 1.0 271.9 3.0 20.0 Vert PK 0.0 60.6 74.0 -13.4 High ch, EUT on side 4957.383 33.6 6.8 1.0 325.0 3.0 0.0 Horz PK 0.0 60.5 74.0 -13.5 High ch, EUT on side 4957.383 33.6 6.8 1.0 325.0 3.0 0.0 Horz PK 0.0 60.5 74.0 -13.5 High ch, EUT on side 4957.383 33.6 6.8 1.0 311.9 3.0 0.0 Horz PK 0.0 60.5 74.0 -13.5 High ch, EUT on side 4957.343 32.3 6.8 1.0 311.9 3.0 0.0 Horz PK 0.0 60.5 74.0 -13.5 High ch, EUT on side 4957.343 33.6 6.8 1.0 358.9 3.0 0.0 Horz PK 0.0 40.4 54.0 -13.8 High ch, EUT on si								Vert						
2389.433 30.8 -2.2 1.0 224.1 3.0 20.0 Horz AV 0.0 48.6 54.0 -5.4 Low ch, EUT on side 2483.550 49.7 1-19 1.0 353.0 3.0 20.0 Vert PK 0.0 67.8 74.0 1-0.6 High ch, EUT on side 2483.550 45.3 1-19 1.0 187.0 3.0 20.0 Horz PK 0.0 62.4 74.0 1-0.6 High ch, EUT on side 7421.058 28.3 14.6 1.0 30.8 3.0 0.0 Horz AV 0.0 42.9 54.0 1-11.1 Low ch, EUT on side 7437.350 28.2 14.6 1.0 308.9 3.0 0.0 Horz AV 0.0 42.9 54.0 1-11.1 Low ch, EUT on side 7437.350 28.2 14.6 1.0 12.1 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1														
2483.525         49.7         -1.9         1.0         353.0         3.0         20.0         Vert         PK         0.0         67.8         74.0         -6.2         High ch, EUT on side           7421.683         28.3         14.6         1.0         0.0         3.0         0.0         Vert         AV         0.0         42.9         54.0         -11.1         Low ch, EUT on side           7437.350         28.2         14.6         1.0         149.1         3.0         0.0         Horz         AV         0.0         42.9         54.0         -11.1         Low ch, EUT on side           7437.350         28.2         14.6         1.0         149.1         3.0         0.0         Horz         AV         0.0         42.8         54.0         -11.2         High ch, EUT on side           2486.758         43.6         -1.9         1.0         156.1         3.0         20.0         Horz         PK         0.0         61.7         74.0         -12.3         High ch, EUT on side           4967.392         34.3         6.8         1.0         240.9         3.0         0.0         Vert         AV         0.0         61.7         74.0         -12.3         High ch, EUT on side														
2483.550   45.3   -1.9   1.0   187.0   3.0   20.0   Horz   PK   0.0   63.4   74.0   -10.6   High ch. EUT on side   7421.058   28.3   14.6   1.0   0.0   3.0   0.0   Vert   AV   0.0   42.9   54.0   -11.1   Low ch. EUT on side   7437.350   28.2   14.6   1.0   149.1   3.0   0.0   Horz   AV   0.0   42.8   54.0   -11.2   High ch. EUT on side   7437.550   28.2   14.6   1.0   149.1   3.0   0.0   Horz   AV   0.0   42.8   54.0   -11.2   High ch. EUT on side   7435.125   28.2   14.6   1.0   22.1   3.0   0.0   Vert   AV   0.0   42.8   54.0   -11.2   High ch. EUT on side   7437.550   34.3   68.8   1.0   250.0   3.0   0.0   Vert   AV   0.0   42.8   54.0   -11.2   High ch. EUT on side   7437.550   4487.732   34.6   6.7   1.0   250.0   3.0   0.0   Vert   AV   0.0   41.3   54.0   -12.7   Low ch. EUT on side   7497.732   4487.732   44.5														
7421.683   28.3														
7421.058   28.3   14.6   1.0   308.9   3.0   0.0   Horz   AV   0.0   42.9   54.0   -11.1   Low ch. EUT on side   7435.125   28.2   14.6   1.0   149.1   3.0   0.0   Vert   AV   0.0   42.8   54.0   -11.2   High ch. EUT on side   7435.125   28.2   14.6   1.0   22.1   3.0   0.0   Vert   AV   0.0   42.8   54.0   -11.2   High ch. EUT on side   7435.125   28.2   14.6   1.0   25.0   3.0   0.0   Vert   AV   0.0   42.8   54.0   -11.2   High ch. EUT on side   7436.758   43.6   -1.9   1.0   156.1   3.0   20.0   Horz   AV   0.0   41.3   54.0   -12.7   High ch. EUT on side   7437.292   42.5   -1.9   3.1   225.0   3.0   0.0   Vert   AV   0.0   41.1   54.0   -12.9   High ch. EUT on side   7437.292   42.5   -1.9   3.3   96.0   3.0   20.0   Horz   PK   0.0   60.6   74.0   -13.4   High ch. EUT on side   7437.292   42.5   -1.9   3.3   96.0   3.0   20.0   Vert   PK   0.0   60.6   74.0   -13.4   High ch. EUT on side   7437.393   42.5   -1.9   3.3   96.0   3.0   20.0   Vert   PK   0.0   60.6   74.0   -13.4   High ch. EUT on side   7437.394   42.8   -2.2   1.0   224.1   3.0   20.0   Horz   PK   0.0   60.6   74.0   -13.5   High ch. EUT on side   7437.394   42.8   -2.2   1.0   224.1   3.0   20.0   Vert   PK   0.0   60.6   74.0   -13.5   High ch. EUT on side   7437.394   42.8   -2.2   1.3   3.0   3.0   20.0   Vert   PK   0.0   60.5   74.0   -13.5   High ch. EUT on side   7437.394   4957.383   33.6   6.8   1.0   325.0   3.0   20.0   Vert   PK   0.0   60.5   74.0   -13.5   High ch. EUT on side   7437.394   4957.383   33.6   6.8   1.0   256.1   3.0   20.0   Vert   PK   0.0   60.5   74.0   -13.5   High ch. EUT on side   7437.394   4957.383   33.6   6.8   1.0   256.0   3.0   20.0   Vert   PK   0.0   60.5   74.0   -13.5   Liow ch. EUT on side   7437.394   4957.342   32.3   6.8   1.0   256.0   3.0   0.0   Vert   AV   0.0   40.4   54.0   -13.6   High ch. EUT on side   7437.394   4957.342   32.3   6.8   1.0   256.0   3.0   0.0   Vert   AV   0.0   40.4   54.0   -13.6   High ch. EUT on side   7436.575   40.0   40.4   40.0   40.4   40.0   40.4   4														High ch, EUT on side
7437.350   28.2   14.6   1.0   149.1   3.0   0.0   Horz   AV   0.0   42.8   54.0   1.11.2   High ch, EUT on side   2486.758   43.6   1.9   1.0   156.1   3.0   20.0   Horz   PK   0.0   61.7   74.0   1.2   1.2   High ch, EUT on side   2486.758   43.6   6.7   1.0   250.0   3.0   20.0   Horz   PK   0.0   61.7   74.0   1.2   1.2   High ch, EUT on side   4957.392   34.3   6.8   1.0   240.9   3.0   0.0   Vert   AV   0.0   41.1   54.0   1.2   High ch, EUT on side   4957.392   43.5   6.8   1.0   240.9   3.0   0.0   Vert   AV   0.0   41.1   54.0   1.2   High ch, EUT on side   2487.292   42.5   1.9   3.1   225.0   3.0   20.0   Vert   PK   0.0   60.6   74.0   1.3   High ch, EUT vert   2485.233   42.5   1.9   3.3   96.0   3.0   20.0   Horz   PK   0.0   60.6   74.0   1.3   High ch, EUT vert   2485.233   42.5   1.9   3.3   96.0   3.0   20.0   Horz   PK   0.0   60.6   74.0   1.3   High ch, EUT vert   2485.3380   42.4   1.9   1.0   2271.9   3.0   20.0   Vert   PK   0.0   60.6   74.0   1.3   High ch, EUT vert   24957.388   33.7   6.8   1.0   325.0   3.0   20.0   Vert   PK   0.0   60.5   74.0   1.3   High ch, EUT on side   24957.388   33.7   6.8   1.0   325.0   3.0   20.0   Vert   PK   0.0   60.5   74.0   1.3   High ch, EUT on side   24957.388   33.6   6.8   1.0   226.1   3.0   20.0   Vert   PK   0.0   60.5   74.0   1.3   High ch, EUT on side   4957.388   33.6   6.8   1.0   226.1   3.0   20.0   Vert   PK   0.0   60.5   74.0   1.3   High ch, EUT on side   4957.388   33.6   6.8   1.0   226.1   3.0   0.0   Horz   AV   0.0   40.4   54.0   1.3   High ch, EUT on side   4957.389   33.6   6.8   1.0   226.0   3.0   0.0   Horz   AV   0.0   40.4   54.0   1.3   High ch, EUT on side   4957.342   32.3   6.8   1.0   226.0   3.0   0.0   Horz   AV   0.0   40.4   54.0   1.3   High ch, EUT on side   4957.342   32.3   6.8   1.0   256.0   3.0   0.0   Vert   AV   0.0   40.4   54.0   1.3   High ch, EUT on side   4957.342   32.1   6.7   1.0   256.0   3.0   0.0   Vert   AV   0.0   33.1   54.0   1.3   High ch, EUT on side   4957.342   42.4   6.8   1.0														
7436.125   28.2   14.6   1.0   10.1   156.1   3.0   0.0   Vert   AV   0.0   42.8   54.0   1-12   High ch, EUT on side   2486.758   43.6   -1.9   1.0   156.1   3.0   20.0   Vert   AV   0.0   41.1   54.0   -12.7   Low ch, EUT on side   2487.292   34.5   6.8   1.0   240.9   3.0   0.0   Vert   AV   0.0   41.1   54.0   -12.7   Low ch, EUT on side   2487.292   42.5   -1.9   3.1   225.0   3.0   20.0   Vert   AV   0.0   60.6   74.0   -13.4   High ch, EUT vert   4285.233   42.5   -1.9   3.1   225.0   3.0   20.0   Vert   PK   0.0   60.6   74.0   -13.4   High ch, EUT vert   4285.233   42.5   -1.9   3.3   96.0   3.0   20.0   Vert   PK   0.0   60.6   74.0   -13.4   High ch, EUT vert   4285.238   42.5   -1.9   1.0   271.9   3.0   20.0   Vert   PK   0.0   60.6   74.0   -13.4   Low ch, EUT on side   4285.338   3.7   6.8   1.0   325.0   3.0   20.0   Vert   PK   0.0   60.5   74.0   -13.5   High ch, EUT vert   4285.338   3.7   6.8   1.0   325.0   3.0   20.0   Vert   PK   0.0   60.5   74.0   -13.5   Low ch, EUT on side   4957.388   33.6   6.8   1.0   205.1   3.0   20.0   Vert   PK   0.0   60.5   74.0   -13.5   Low ch, EUT on side   4957.383   33.6   6.8   1.0   205.1   3.0   20.0   Vert   PK   0.0   60.5   74.0   -13.5   Low ch, EUT on side   4957.383   33.6   6.8   1.0   205.1   3.0   0.0   Horz   AV   0.0   40.5   54.0   -13.5   High ch, EUT vert   4957.433   33.6   6.8   1.0   205.1   3.0   0.0   Horz   AV   0.0   40.4   54.0   -13.6   High ch, EUT vert   4957.342   33.3   6.8   1.0   205.0   3.0   0.0   Vert   AV   0.0   40.4   54.0   -13.6   High ch, EUT vert   4957.342   32.3   6.8   1.0   256.0   3.0   0.0   Vert   AV   0.0   39.1   54.0   -13.6   High ch, EUT vert   4957.342   32.3   6.8   1.0   256.0   3.0   0.0   Vert   AV   0.0   39.1   54.0   -13.6   High ch, EUT vert   4957.342   32.3   6.8   1.0   256.0   3.0   0.0   Vert   AV   0.0   39.1   54.0   -13.6   High ch, EUT on side   4947.367   40.0   14.6   1.0   14.9   13.0   0.0   Vert   AV   0.0   39.1   54.0   -14.0   High ch, EUT on side   4947.367   40.0   14.6														
2486.788         43.6         -1.9         1.0         156.1         3.0         20.0         Horz         PK         0.0         61.7         74.0         -12.2         High ch, EUT horz           4947.292         34.3         6.8         1.0         240.9         3.0         0.0         Vert         AV         0.0         41.1         54.0         -12.7         Low ch, EUT on side           2487.292         42.5         -1.9         3.1         225.0         3.0         20.0         Vert         PK         0.0         60.6         74.0         -13.4         High ch, EUT vert           2887.400         42.8         -2.2         1.0         224.1         3.0         20.0         Horz         PK         0.0         60.6         74.0         -13.4         High ch, EUT vert           2887.308         33.7         6.8         1.0         325.0         3.0         20.0         Horz         PK         0.0         60.5         74.0         -13.5         High ch, EUT vert           4957.358         33.7         6.8         1.0         325.0         3.0         20.0         Vert         PK         0.0         60.5         74.0         -13.5         High ch, EUT vert <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
4947.292 34.6 6.7 1.0 250.0 3.0 0.0 Vert AV 0.0 41.3 54.0 -12.7 Low ch, EUT on side 4957.392 42.5 -1.9 3.1 225.0 3.0 0.0 Vert PK 0.0 60.6 74.0 -13.4 High ch, EUT or side 2487.292 42.5 -1.9 3.3 96.0 3.0 20.0 Horz PK 0.0 60.6 74.0 -13.4 High ch, EUT or side 2482.33 42.5 -1.9 3.3 96.0 3.0 20.0 Horz PK 0.0 60.6 74.0 -13.4 High ch, EUT vert 2485.233 42.5 -1.9 1.0 224.1 3.0 20.0 Horz PK 0.0 60.6 74.0 -13.4 High ch, EUT or side 2483.800 42.4 -1.9 1.0 271.9 3.0 20.0 Vert PK 0.0 60.5 74.0 -13.5 High ch, EUT or side 2483.800 42.4 -1.9 1.0 271.9 3.0 20.0 Vert PK 0.0 60.5 74.0 -13.5 High ch, EUT nor side 2389.308 42.7 -2.2 1.3 335.0 3.0 0.0 Horz AV 0.0 40.5 54.0 -13.5 High ch, EUT nor side 4957.358 33.6 6.8 1.0 20.6 1 3.0 0.0 Horz AV 0.0 40.4 54.0 -13.5 Low ch, EUT on side 4957.358 33.6 6.8 1.0 20.6 1 3.0 0.0 Horz AV 0.0 40.4 54.0 -13.6 High ch, EUT nor side 4957.283 33.6 6.8 1.0 20.5 1 3.0 0.0 Horz AV 0.0 40.4 54.0 -13.6 High ch, EUT horz 4957.473 32.2 6.8 1.0 256.0 3.0 0.0 Vert AV 0.0 40.4 54.0 -13.6 High ch, EUT horz 4957.347 33.2 6.8 1.0 256.0 3.0 0.0 Horz AV 0.0 40.4 54.0 -13.6 High ch, EUT horz 4957.347 33.2 6.8 1.0 256.0 3.0 0.0 Horz AV 0.0 39.1 54.0 -14.0 High ch, EUT horz 4947.307 32.1 6.7 1.0 267.0 3.0 0.0 Horz AV 0.0 38.8 54.0 -15.2 Low ch, EUT on side 4957.345 40.1 14.6 1.0 308.9 3.0 0.0 Horz AV 0.0 38.8 54.0 -15.2 Low ch, EUT on side 4957.345 30.4 14.6 1.0 308.9 3.0 0.0 Horz AV 0.0 38.8 54.0 -15.2 Low ch, EUT on side 4957.642 43.4 6.8 1.0 389.9 3.0 0.0 Horz AV 0.0 54.6 74.0 -19.4 High ch, EUT wert 4947.20383 40.1 14.6 1.0 308.9 3.0 0.0 Horz AV 0.0 54.6 74.0 -19.4 High ch, EUT on side 4957.642 43.4 6.8 1.0 319.9 3.0 0.0 Horz PK 0.0 54.6 74.0 -19.4 High ch, EUT on side 4957.642 43.4 6.8 1.0 319.9 3.0 0.0 Horz PK 0.0 54.6 74.0 -19.4 High ch, EUT on side 4957.08 43.0 6.8 1.0 325.0 3.0 0.0 Horz PK 0.0 54.6 74.0 -19.4 High ch, EUT on side 4957.08 43.0 6.8 1.0 325.0 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.1 High ch, EUT on side 4957.08 43.0 6.8 1.0 325.0 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.1 High ch, EUT on side 4957.08 43.0														
4957.392 34.3 6.8 1.0 240.9 3.0 0.0 Vert AV 0.0 41.1 54.0 -12.9 High ch. EUT on side 2487.292 42.5 -1.9 3.1 225.0 3.0 20.0 Vert PK 0.0 60.6 74.0 -13.4 High ch. EUT vert 2485.233 42.5 -1.9 3.3 96.0 3.0 20.0 Horz PK 0.0 60.6 74.0 -13.4 Low ch, EUT on side 2483.800 42.4 -1.9 1.0 271.9 3.0 20.0 Horz PK 0.0 60.6 74.0 -13.5 High ch. EUT vert 4957.358 33.7 6.8 1.0 325.0 3.0 0.0 Horz AV 0.0 40.5 54.0 -13.5 High ch. EUT on side 4957.358 33.6 6.8 1.0 325.0 3.0 0.0 Horz AV 0.0 40.5 54.0 -13.5 High ch. EUT on side 4957.358 33.6 6.8 1.0 206.1 3.0 0.0 Horz AV 0.0 40.4 54.0 -13.6 High ch. EUT vert 4957.358 33.6 6.8 1.0 206.1 3.0 0.0 Horz AV 0.0 40.4 54.0 -13.6 High ch. EUT vert 4957.359 33.6 6.8 1.0 256.0 3.0 0.0 Horz AV 0.0 40.4 54.0 -13.6 High ch. EUT vert 4957.359 33.6 6.8 1.0 256.0 3.0 0.0 Horz AV 0.0 40.4 54.0 -13.6 High ch. EUT vert 4957.359 33.6 6.8 1.0 311.9 3.0 0.0 Horz AV 0.0 40.4 54.0 -13.6 High ch. EUT vert 4957.359 33.6 6.8 1.0 358.9 3.0 0.0 Horz AV 0.0 40.4 54.0 -13.6 High ch. EUT vert 4957.369 32.1 6.8 1.0 358.9 3.0 0.0 Horz AV 0.0 40.0 54.0 -14.0 High ch. EUT vert 4957.367 32.1 6.7 1.0 257.0 3.0 0.0 Horz AV 0.0 33.8 54.0 -14.9 High ch. EUT vert 4947.367 32.1 6.7 1.0 257.0 3.0 0.0 Horz AV 0.0 38.8 54.0 -14.9 High ch. EUT vert 420.33 40.1 14.6 1.0 308.9 3.0 0.0 Horz AV 0.0 38.8 54.0 -14.9 High ch. EUT on side 7430.5675 40.0 14.6 1.0 149.1 3.0 0.0 Horz PK 0.0 54.6 74.0 -19.4 Low ch. EUT on side 7430.5775 40.0 14.6 1.0 250.0 3.0 0.0 Vert PK 0.0 54.4 74.0 -19.4 Low ch. EUT on side 7430.5775 40.0 14.6 1.0 250.0 3.0 0.0 Horz PK 0.0 54.4 74.0 -19.4 High ch. EUT on side 8457.078 43.1 6.8 1.0 250.0 3.0 0.0 Vert PK 0.0 54.4 74.0 -19.4 High ch. EUT on side 4957.078 43.1 6.8 1.0 250.0 3.0 0.0 Vert PK 0.0 54.4 74.0 -19.4 High ch. EUT on side 4957.078 43.1 6.8 1.0 250.0 3.0 0.0 Vert PK 0.0 54.4 74.0 -19.4 High ch. EUT on side 4957.078 43.1 6.8 1.0 250.0 3.0 0.0 Vert PK 0.0 50.2 74.0 -23.8 Low ch. EUT on side 4957.078 43.1 6.8 1.0 250.0 3.0 0.0 Vert PK 0.0 49.9 74.0 -24.1 High ch. EUT on side 4957.078 43.1 6.8 1.0 250.0 3.0 0														
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2483 800 42.4 -1.9 1.0 271.9 3.0 20.0 Vert PK 0.0 60.5 74.0 -13.5 High ch, EUT nor side 4957.358 33.7 6.8 1.0 325.0 3.0 0.0 Horz AV 0.0 40.5 54.0 -13.5 Low ch, EUT on side 4857.358 33.6 6.8 1.0 206.1 3.0 0.0 Horz AV 0.0 40.4 54.0 -13.6 High ch, EUT vert 4857.283 33.6 6.8 1.0 311.9 3.0 0.0 Horz AV 0.0 40.4 54.0 -13.6 High ch, EUT vert 4957.374 33.2 6.8 1.0 311.9 3.0 0.0 Horz AV 0.0 40.4 54.0 -13.6 High ch, EUT vert 4957.342 32.3 6.8 1.0 355.9 3.0 0.0 Vert AV 0.0 40.0 54.0 -14.0 High ch, EUT horz 4957.342 32.3 6.8 1.0 355.9 3.0 0.0 Vert AV 0.0 39.1 54.0 -14.9 High ch, EUT horz 4947.367 32.1 6.7 1.0 267.0 3.0 0.0 Horz AV 0.0 38.8 54.0 -15.2 Low ch, EUT on side 7430.5675 40.0 14.6 1.0 308.9 3.0 0.0 Horz AV 0.0 38.8 54.0 -15.2 Low ch, EUT on side 7430.5675 40.0 14.6 1.0 0.0 30.9 3.0 0.0 Horz AV 0.0 54.6 74.0 -19.4 High ch, EUT nor side 7434.367 39.8 14.6 1.0 25.0 3.0 0.0 Vert AV 0.0 54.6 74.0 -19.4 High ch, EUT on side 7434.367 39.8 14.6 1.0 25.0 3.0 0.0 Vert AV 0.0 54.6 74.0 -19.4 High ch, EUT on side 7434.367 39.8 14.6 1.0 25.0 3.0 0.0 Vert AV 0.0 54.6 74.0 -19.4 Low ch, EUT on side 4957.775 43.1 6.8 1.0 25.0 3.0 0.0 Vert PK 0.0 54.6 74.0 -19.4 Low ch, EUT on side 4957.775 43.1 6.8 1.0 25.0 3.0 0.0 Vert PK 0.0 50.2 74.0 -23.8 High ch, EUT on side 4957.782 43.1 6.8 1.0 260.1 3.0 0.0 Horz PK 0.0 59.2 74.0 -23.8 High ch, EUT on side 4957.782 43.1 6.8 1.0 325.0 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.1 High ch, EUT on side 4957.782 43.1 6.8 1.0 325.0 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.1 High ch, EUT on side 4957.782 43.1 6.8 1.0 325.0 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.1 High ch, EUT on side 4957.782 43.1 6.8 1.0 355.9 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.1 High ch, EUT on side 4957.782 43.1 6.8 1.0 355.9 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.1 High ch, EUT on side 4957.783 43.1 6.8 1.0 355.9 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.1 High ch, EUT on side 4957.783 43.1 6.8 1.0 355.9 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.1 High ch, EUT on side 4957.783 43.1 6.8 1.0 355.9 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.1 High ch, EUT on side 4957.784 42.4 6.8														
4957.358   33.7   6.8   1.0   325.0   3.0   0.0   Horz   AV   0.0   40.5   54.0   -13.5   Low ch, EUT on side   4957.358   33.6   6.8   1.0   206.1   3.0   0.0   Horz   AV   0.0   40.4   54.0   -13.6   High ch, EUT on side   4957.283   33.6   6.8   1.0   206.1   3.0   0.0   Horz   AV   0.0   40.4   54.0   -13.6   High ch, EUT write   4957.283   33.6   6.8   1.0   311.9   3.0   0.0   Horz   AV   0.0   40.4   54.0   -13.6   High ch, EUT write   4957.342   32.3   6.8   1.0   356.9   3.0   0.0   Vert   AV   0.0   40.4   54.0   -13.6   High ch, EUT write   4957.342   32.3   6.8   1.0   356.9   3.0   0.0   Vert   AV   0.0   39.1   54.0   -14.9   High ch, EUT horz   4947.367   32.1   6.7   1.0   267.0   3.0   0.0   Horz   AV   0.0   39.1   54.0   -14.9   High ch, EUT no side   7420.383   40.1   14.6   1.0   308.9   3.0   0.0   Horz   PK   0.0   54.7   74.0   -19.3   Low ch, EUT on side   7436.357   40.0   14.6   1.0   0.0   3.0   0.0   Horz   PK   0.0   54.6   74.0   -19.4   Low ch, EUT on side   7434.3677   39.8   14.6   1.0   22.1   3.0   0.0   Vert   PK   0.0   54.6   74.0   -19.4   Low ch, EUT on side   4957.642   43.4   6.8   1.0   206.1   3.0   0.0   Horz   PK   0.0   54.4   74.0   -19.6   High ch, EUT nor side   4957.642   43.1   6.8   1.0   206.1   3.0   0.0   Horz   PK   0.0   50.2   74.0   -23.8   Low ch, EUT on side   4957.642   43.1   6.8   1.0   206.1   3.0   0.0   Horz   PK   0.0   50.2   74.0   -23.8   Low ch, EUT on side   4957.342   42.4   6.8   1.0   325.0   3.0   0.0   Horz   PK   0.0   49.9   74.0   -24.1   High ch, EUT nor side   4957.342   42.4   6.8   1.0   325.0   3.0   0.0   Horz   PK   0.0   49.9   74.0   -24.1   High ch, EUT on side   4957.342   42.4   6.8   1.0   325.0   3.0   0.0   Horz   PK   0.0   49.9   74.0   -24.1   High ch, EUT on side   4957.342   42.4   6.8   1.0   325.0   3.0   0.0   Horz   PK   0.0   49.9   74.0   -24.1   High ch, EUT on side   4957.342   42.4   6.8   1.0   325.0   3.0   0.0   Horz   PK   0.0   49.9   74.0   -24.8   High ch, EUT on side   4957.342   42.4   6.8														
2388 308														
4957.388         33.6         6.8         1.0         206.1         3.0         0.0         Horz         AV         0.0         40.4         54.0         -13.6         High ch, EUT vert           4957.283         33.6         6.8         1.0         311.9         3.0         0.0         Horz         AV         0.0         40.4         54.0         -13.6         High ch, EUT vert           4957.347         32.3         6.8         1.0         356.9         3.0         0.0         Vert         AV         0.0         39.1         54.0         -14.9         High ch, EUT vert           4947.367         32.1         6.7         1.0         267.0         3.0         0.0         Horz         AV         0.0         39.1         54.0         -14.9         High ch, EUT vert           4947.367         32.1         6.7         1.0         267.0         3.0         0.0         Horz         AV         0.0         54.7         74.0         -19.3         Low ch, EUT on side           7420.383         40.1         14.6         1.0         30.9         3.0         0.0         Horz         PK         0.0         54.6         74.0         -19.4         High ch, EUT on side      <														
4957/283         33.6         6.8         1.0         311.9         3.0         0.0         Horz         AV         0.0         49.4         54.0         -13.6         High ch, EUT horz           4957.342         32.3         6.8         1.0         358.9         3.0         0.0         Vert         AV         0.0         39.1         54.0         -14.9         High ch, EUT horz           4947.367         32.1         6.7         1.0         267.0         3.0         0.0         Horz         AV         0.0         38.8         54.0         -15.2         Low ch, EUT on side           7430.578         40.0         14.6         1.0         308.9         3.0         0.0         Horz         PK         0.0         54.7         74.0         -19.3         Low ch, EUT on side           7430.578         40.0         14.6         1.0         149.1         3.0         0.0         Horz         PK         0.0         54.6         74.0         -19.4         Low ch, EUT on side           7430.3678         49.0         14.6         1.0         20.1         3.0         0.0         Vert         PK         0.0         54.6         74.0         -19.4         Low ch, EUT on side														
4957.417         33.2         6.8         1.0         256.0         3.0         0.0         Vert         AV         0.0         490.         54.0         -14.0         High ch, EUT vert           4957.342         32.3         6.8         1.0         358.9         3.0         0.0         Vert         AV         0.0         39.1         54.0         -14.9         High ch, EUT ord           4947.367         32.1         6.7         1.0         267.0         3.0         0.0         Horz         AV         0.0         38.8         54.0         -15.2         Low ch, EUT ord side           7420.383         40.1         14.6         1.0         308.9         3.0         0.0         Horz         PK         0.0         54.6         74.0         -19.3         Low ch, EUT ord side           7420.125         40.0         14.6         1.0         0.0         3.0         0.0         Vert         PK         0.0         54.6         74.0         -19.4         High ch, EUT ord side           4947.292         43.5         6.7         1.0         250.0         3.0         0.0         Vert         PK         0.0         50.2         74.0         -23.8         Low ch, EUT ord side <td></td>														
4957.342 32.3 6.8 1.0 358.9 3.0 0.0 Vert AV 0.0 39.1 54.0 -14.9 High ch, EUT horz 4947.367 32.1 6.7 1.0 267.0 30.9 0.0 Horz AV 0.0 38.8 54.0 -15.2 Low ch, EUT on side 7420.383 40.1 14.6 1.0 308.9 3.0 0.0 Horz PK 0.0 54.6 74.0 -19.3 Low ch, EUT on side 7430.575 40.0 14.6 1.0 149.1 3.0 0.0 Horz PK 0.0 54.6 74.0 -19.4 High ch, EUT on side 7430.575 40.0 14.6 1.0 0.0 3.0 0.0 Vert PK 0.0 54.6 74.0 -19.4 Low ch, EUT on side 7434.367 39.8 14.6 1.0 22.1 3.0 0.0 Vert PK 0.0 54.6 74.0 -19.4 Low ch, EUT on side 4947.292 43.5 6.7 1.0 250.0 3.0 0.0 Vert PK 0.0 54.4 74.0 -19.6 High ch, EUT on side 4957.642 43.4 6.8 1.0 206.1 3.0 0.0 Vert PK 0.0 50.2 74.0 -23.8 Low ch, EUT on side 4957.175 43.1 6.8 1.0 206.1 3.0 0.0 Vert PK 0.0 50.2 74.0 -23.8 Low ch, EUT on side 4957.75 43.1 6.8 1.0 240.9 3.0 0.0 Vert PK 0.0 50.2 74.0 -23.8 Low ch, EUT on side 4957.75 43.1 6.8 1.0 250.0 3.0 0.0 Vert PK 0.0 50.2 74.0 -24.8 High ch, EUT on side 4957.708 43.0 6.8 1.0 325.0 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.1 High ch, EUT on side 4957.708 43.0 6.8 1.0 325.0 3.0 0.0 Horz PK 0.0 49.8 74.0 -24.1 High ch, EUT on side 4957.375 42.2 42.4 6.8 1.0 256.0 3.0 0.0 Horz PK 0.0 49.2 74.0 -24.8 High ch, EUT on side 4957.375 42.2 6.7 1.3 260.0 3.0 0.0 Vert PK 0.0 49.2 74.0 -24.8 High ch, EUT on side 4957.375 42.2 6.7 1.0 63.0 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.1 High ch, EUT on side 4957.375 42.2 6.7 1.0 63.0 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.1 High ch, EUT on side 4957.375 42.2 6.7 1.0 63.0 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.8 High ch, EUT on side 4957.375 42.2 6.7 1.0 63.0 3.0 0.0 Horz PK 0.0 49.9 74.0 -24.8 High ch, EUT on side 4957.375 42.2 6.7 1.0 267.0 3.0 Horz PK 0.0 48.9 74.0 -25.1 Low ch, EUT on side 4957.375 42.2 6.7 1.0 63.0 3.0 0.0 Horz PK 0.0 48.6 74.0 -25.4 High ch, EUT on side 4957.375 42.2 6.7 1.0 63.0 3.0 0.0 Horz PK 0.0 48.6 74.0 -25.4 Low ch, EUT on side 4957.375 42.2 6.7 1.0 63.0 3.0 0.0 Horz PK 0.0 48.6 74.0 -25.4 Low ch, EUT on side 12395.840 43.9 -2.7 1.3 260.0 3.0 0.0 Horz PK 0.0 48.6 74.0 -25.4 Low ch, EUT on side 12395.840 43.9 -2.7 1.3														
4947 367         32 1         6.7         1.0         267.0         3.0         0.0         Horz         AV         0.0         38.8         54.0         -15.2         Low ch, EUT on side           7420.383         40.1         14.6         1.0         308.9         3.0         0.0         Horz         PK         0.0         54.7         74.0         -19.3         Low ch, EUT on side           7420.125         40.0         14.6         1.0         0.0         3.0         0.0         Vert         PK         0.0         54.6         74.0         -19.4         High ch, EUT on side           7420.125         40.0         14.6         1.0         0.0         3.0         0.0         Vert         PK         0.0         54.6         74.0         -19.4         High ch, EUT on side           4947.292         43.5         6.7         1.0         250.0         3.0         0.0         Vert         PK         0.0         50.4         74.0         -23.8         Low ch, EUT on side           4957.642         43.4         6.8         1.0         220.6         3.0         0.0         Horz         PK         0.0         50.2         74.0         -23.8         Low ch, EUT on side <td></td>														
7420_383         40_1         14_6         1_0         308_9         3_0         0_0         Horz         PK         0_0         54_7         74_0         -19_3         Low ch, EUT on side           7436_575         40.0         14_6         1_0         14_9.1         3_0         0_0         Horz         PK         0_0         54_6         74_0         -19_4         High ch, EUT on side           7436_575         40.0         14_6         1_0         0_0         3_0         0_0         Vert         PK         0_0         54_6         74_0         -19_4         Ligh ch, EUT on side           7434_367         39_8         14_6         1_0         22_1         3_0         0_0         Vert         PK         0_0         54_6         74_0         -19_6         High ch, EUT on side           4957_642         43_4         6_8         1_0         206_1         3_0         0_0         Vert         PK         0_0         50_2         74_0         -23_8         Ligh ch, EUT on side           4957_758         4_31         6_8         1_0         31_9         3_0         0_0         Horz         PK         0_0         49_9         74_0         -24_1         High ch, EUT on side														
7436.575         40.0         14.6         1.0         149.1         3.0         0.0         Horz         PK         0.0         54.6         74.0         -19.4         High ch, EUT on side           7420.125         40.0         14.6         1.0         0.0         3.0         0.0         Vert         PK         0.0         54.6         74.0         -19.4         Low ch, EUT on side           7434.367         39.8         14.6         1.0         22.1         3.0         0.0         Vert         PK         0.0         54.4         74.0         -19.6         High ch, EUT on side           4957.642         43.5         6.7         1.0         250.0         3.0         0.0         Vert         PK         0.0         50.2         74.0         -23.8         High ch, EUT on side           4957.175         43.1         6.8         1.0         240.9         3.0         0.0         Vert         PK         0.0         49.9         74.0         -24.1         High ch, EUT on side           4957.708         43.0         6.8         1.0         321.9         3.0         0.0         Horz         PK         0.0         49.9         74.0         -24.1         High ch, EUT on side														
7420 125         40 0         14.6         1.0         0.0         3.0         0.0         Vert         PK         0.0         54.6         74.0         -19.4         Low ch, EUT on side           74343677         39.8         14.6         1.0         22.1         3.0         0.0         Vert         PK         0.0         54.4         74.0         -19.6         High ch, EUT on side           4957.642         43.4         6.8         1.0         206.1         3.0         0.0         Horz         PK         0.0         50.2         74.0         -23.8         Low ch, EUT on side           4957.75         43.1         6.8         1.0         204.9         3.0         0.0         Horz         PK         0.0         49.9         74.0         -23.8         Ligh ch, EUT on side           4957.76         43.1         6.8         1.0         311.9         3.0         0.0         Horz         PK         0.0         49.9         74.0         -24.1         High ch, EUT on side           4957.736         43.1         6.8         1.0         325.0         3.0         0.0         Horz         PK         0.0         49.9         74.0         -24.1         High ch, EUT on side <td></td>														
7434 367         39 8         14 6         1 0         22.1         3 0         0.0         Vert         PK         0.0         54.4         74.0         -19.6         High ch, EUT on side           4947 792         435 6         6.7         1.0         250.0         3.0         0.0         Vert         PK         0.0         50.2         74.0         -23.8         Low ch, EUT on side           4957,842         43.1         6.8         1.0         240.9         3.0         0.0         Vert         PK         0.0         49.9         74.0         -23.8         High ch, EUT on side           4957,852         43.1         6.8         1.0         240.9         3.0         0.0         Horz         PK         0.0         49.9         74.0         -23.8         High ch, EUT on side           4957,708         43.0         6.8         1.0         325.0         3.0         0.0         Horz         PK         0.0         49.9         74.0         -24.1         High ch, EUT on side           4957,342         42.4         6.8         1.0         325.0         3.0         0.0         Vert         PK         0.0         49.2         74.0         -24.8         High ch, EUT on side														
4947.292         43.5         6.7         1.0         250.0         3.0         0.0         Vert         PK         0.0         50.2         74.0         -23.8         Low ch, EUT on side           4957.642         43.4         6.8         1.0         206.1         3.0         0.0         Horz         PK         0.0         50.2         74.0         -23.8         High ch, EUT on side           4957.715         43.1         6.8         1.0         240.9         3.0         0.0         Vert         PK         0.0         49.9         74.0         -24.1         High ch, EUT on side         4957.708         43.0         6.8         1.0         31.9         3.0         0.0         Horz         PK         0.0         49.9         74.0         -24.1         High ch, EUT on side         4957.708         43.0         6.8         1.0         325.0         3.0         0.0         Horz         PK         0.0         49.8         74.0         -24.1         High ch, EUT on side         4957.342         42.4         6.8         1.0         256.0         3.0         0.0         Vert         PK         0.0         49.2         74.0         -24.8         High ch, EUT on side         12394.430         31.9														
4957,642         43,4         6.8         1,0         206,1         3,0         0,0         Horz         PK         0,0         50,2         74,0         -23,8         High ch, EUT vert           4957,175         43,1         6.8         1,0         240,9         3,0         0,0         Vert         PK         0,0         49,9         74,0         -24,1         High ch, EUT on side           4957,708         43,0         6.8         1,0         325,0         3,0         0,0         Horz         PK         0,0         49,8         74,0         -24,1         High ch, EUT on side           4957,342         42,4         6.8         1,0         325,0         3,0         0,0         Vert         PK         0,0         49,8         74,0         -24,2         High ch, EUT on side           4957,342         42,4         6.8         1,0         256,0         3,0         0,0         Vert         PK         0,0         49,2         74,0         -24,8         High ch, EUT on side           12396,270         31,9         -2.7         1,3         260,0         3,0         0,0         Horz         AV         0,0         29,2         54,0         -24.8         High ch, EUT on side														
4957.175         43.1         6.8         1.0         240.9         3.0         0.0         Vert         PK         0.0         49.9         74.0         -24.1         High ch, EUT on side           4957.708         43.1         6.8         1.0         31.9         3.0         0.0         Horz         PK         0.0         49.9         74.0         -24.1         High ch, EUT on side           4957.708         43.0         6.8         1.0         325.0         3.0         0.0         Vert         PK         0.0         49.8         74.0         -24.2         High ch, EUT on side         4957.342         42.4         6.8         1.0         256.0         3.0         0.0         Vert         PK         0.0         49.2         74.0         -24.2         High ch, EUT on side         4957.342         42.4         6.8         1.0         256.0         3.0         0.0         Vert         AV         0.0         49.2         74.0         -24.8         High ch, EUT on side         12364.430         31.9         -2.7         1.0         63.0         3.0         0.0         Horz         AV         0.0         29.2         54.0         -24.8         High ch, EUT on side         4947.375         42.2 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
4956.892         43.1         6.8         1.0         311.9         3.0         0.0         Horz         PK         0.0         49.9         74.0         -24.1         High ch, EUT norized           4957.7342         42.4         6.8         1.0         325.0         3.0         0.0         Horz         PK         0.0         49.8         74.0         -24.2         High ch, EUT on side           4957.342         42.4         6.8         1.0         256.0         3.0         0.0         Vert         PK         0.0         49.2         74.0         -24.8         High ch, EUT on side           12396.270         31.9         -2.7         1.3         260.0         3.0         0.0         Vert         AV         0.0         29.2         54.0         -24.8         High ch, EUT on side           4947.375         42.2         6.7         1.0         267.0         3.0         0.0         Horz         PK         0.0         48.9         74.0         -25.1         Low ch, EUT on side           4957.892         41.8         6.8         1.0         267.0         3.0         0.0         Horz         PK         0.0         48.9         74.0         -25.1         Low ch, EUT on side														
4957.708 43.0 6.8 1.0 325.0 3.0 0.0 Horz PK 0.0 49.8 74.0 -24.2 High ch, EUT on side 4957.342 42.4 6.8 1.0 256.0 3.0 0.0 Vert PK 0.0 49.2 74.0 -24.8 High ch, EUT on side 12396.470 31.9 -2.7 1.3 260.0 3.0 0.0 Vert AV 0.0 29.2 54.0 -24.8 High ch, EUT on side 12394.430 31.9 -2.7 1.0 63.0 3.0 0.0 Horz AV 0.0 29.2 54.0 -24.8 High ch, EUT on side 4947.375 42.2 6.7 1.0 267.0 3.0 0.0 Horz AV 0.0 29.2 54.0 -24.8 High ch, EUT on side 4957.892 41.8 6.8 1.0 358.9 3.0 0.0 Horz PK 0.0 48.9 74.0 -25.1 Low ch, EUT on side 4957.892 41.8 6.8 1.0 207.0 3.0 0.0 Horz AV 0.0 28.6 54.0 -25.4 Low ch, EUT on side 12396.210 31.4 -2.8 1.9 232.9 3.0 0.0 Horz AV 0.0 28.6 54.0 -25.4 Low ch, EUT on side 12395.840 43.9 -2.7 1.0 63.0 3.0 0.0 Horz PK 0.0 41.2 74.0 -32.8 High ch, EUT on side 12396.700 43.5 -2.8 1.0 207.0 3.0 0.0 Horz PK 0.0 41.2 74.0 -32.8 High ch, EUT on side 12396.720 43.5 -2.8 1.0 207.0 3.0 0.0 Horz PK 0.0 40.7 74.0 -33.5 High ch, EUT on side 12394.890 43.2 -2.7 1.3 260.0 3.0 0.0 Vert PK 0.0 40.5 74.0 -33.5 High ch, EUT on side														
4957.342         4.2.4         6.8         1.0         256.0         3.0         0.0         Vert         PK         0.0         49.2         74.0         -24.8         High ch, EUT vert           12396.270         31.9         -2.7         1.3         260.0         3.0         0.0         Vert         AV         0.0         29.2         54.0         -24.8         High ch, EUT on side           4947.375         42.2         6.7         1.0         267.0         3.0         0.0         Horz         PK         0.0         48.9         74.0         -25.1         Low ch, EUT on side           4957.892         41.8         6.8         1.0         358.9         3.0         0.0         Vert         PK         0.0         48.9         74.0         -25.1         Low ch, EUT on side           12366.210         31.4         -2.8         1.0         207.0         3.0         0.0         Horz         AV         0.0         28.6         54.0         -25.4         High ch, EUT nor side           12366.210         31.4         -2.8         1.9         232.9         3.0         0.0         Horz         AV         0.0         28.6         54.0         -25.4         Low ch, EUT on side														
12396.270 31.9 -2.7 1.3 260.0 3.0 0.0 Vert AV 0.0 29.2 54.0 -24.8 High ch, EUT on side 12394.430 31.9 -2.7 1.0 63.0 3.0 0.0 Horz AV 0.0 29.2 54.0 -24.8 High ch, EUT on side 4947.375 42.2 6.7 1.0 267.0 3.0 0.0 Horz PK 0.0 48.9 74.0 -25.1 Low ch, EUT on side 4957.892 41.8 6.8 1.0 358.9 3.0 0.0 Vert PK 0.0 48.6 74.0 -25.4 High ch, EUT no side 12366.210 31.4 -2.8 1.0 207.0 3.0 0.0 Vert PK 0.0 48.6 74.0 -25.4 Low ch, EUT on side 12366.210 31.4 -2.8 1.9 232.9 3.0 0.0 Vert AV 0.0 28.6 54.0 -25.4 Low ch, EUT on side 12395.840 43.9 -2.7 1.0 63.0 3.0 0.0 Horz PK 0.0 41.2 74.0 -32.8 High ch, EUT on side 12366.720 43.5 -2.8 1.0 207.0 3.0 0.0 Horz PK 0.0 41.2 74.0 -32.8 High ch, EUT on side 12366.720 43.5 -2.8 1.0 207.0 3.0 0.0 Vert PK 0.0 40.7 74.0 -33.5 High ch, EUT on side 12394.890 43.2 -2.7 1.3 260.0 3.0 0.0 Vert PK 0.0 40.5 74.0 -33.5 High ch, EUT on side														
12394.430 31.9 -2.7 1.0 63.0 3.0 0.0 Horz AV 0.0 29.2 54.0 -24.8 High ch, EUT on side 4947.375 42.2 6.7 1.0 267.0 3.0 0.0 Horz PK 0.0 48.9 74.0 -25.1 Low ch, EUT on side 4957.892 41.8 6.8 1.0 358.9 3.0 0.0 Vert PK 0.0 48.6 74.0 -25.4 High ch, EUT nor side 12366.210 31.4 -2.8 1.0 207.0 3.0 0.0 Horz AV 0.0 28.6 54.0 -25.4 Low ch, EUT on side 12366.100 31.4 -2.8 1.9 232.9 3.0 0.0 Vert AV 0.0 28.6 54.0 -25.4 Low ch, EUT on side 12395.840 43.9 -2.7 1.0 63.0 3.0 0.0 Horz PK 0.0 41.2 74.0 -32.8 High ch, EUT on side 12366.720 43.5 -2.8 1.0 207.0 3.0 0.0 Horz PK 0.0 40.7 74.0 -32.8 Low ch, EUT on side 12366.720 43.5 -2.8 1.0 207.0 3.0 0.0 Vert PK 0.0 40.7 74.0 -33.5 High ch, EUT on side														
4947.375 42 2 6.7 1.0 267.0 3.0 0.0 Horz PK 0.0 48.9 74.0 -25.1 Low ch, EUT on side 4957.892 41.8 6.8 1.0 358.9 3.0 0.0 Vert PK 0.0 48.6 74.0 -25.4 High ch, EUT horz 12366.210 31.4 -2.8 1.0 207.0 3.0 0.0 Horz AV 0.0 28.6 54.0 -25.4 Low ch, EUT on side 12366.100 31.4 -2.8 1.9 232.9 3.0 0.0 Vert AV 0.0 28.6 54.0 -25.4 Low ch, EUT on side 12395.840 43.9 -2.7 1.0 63.0 3.0 0.0 Horz PK 0.0 41.2 74.0 -32.8 High ch, EUT on side 12366.720 43.5 -2.8 1.0 207.0 3.0 0.0 Horz PK 0.0 40.7 74.0 -33.3 Low ch, EUT on side 12396.6720 43.5 -2.8 1.0 207.0 3.0 0.0 Vert PK 0.0 40.7 74.0 -33.3 Low ch, EUT on side 12396.9 43.2 -2.7 1.3 260.0 3.0 0.0 Vert PK 0.0 40.5 74.0 -33.5 High ch, EUT on side														
4957.892 41.8 6.8 1.0 358.9 3.0 0.0 Vert PK 0.0 48.6 74.0 -25.4 High ch, EUT horz 12366.210 31.4 -2.8 1.0 207.0 3.0 0.0 Horz AV 0.0 28.6 54.0 -25.4 Low ch, EUT on side 12366.100 31.4 -2.8 1.9 232.9 3.0 0.0 Vert AV 0.0 28.6 54.0 -25.4 Low ch, EUT on side 12395.840 43.9 -2.7 1.0 63.0 3.0 0.0 Horz PK 0.0 41.2 74.0 -32.8 High ch, EUT on side 12366.720 43.5 -2.8 1.0 207.0 3.0 0.0 Horz PK 0.0 40.7 74.0 -33.3 Low ch, EUT on side 12364.290 43.2 -2.7 1.3 260.0 3.0 0.0 Vert PK 0.0 40.5 74.0 -33.5 High ch, EUT on side														
12366.210 31.4 -2.8 1.0 207.0 3.0 0.0 Horz AV 0.0 28.6 54.0 -25.4 Low ch, EUT on side 12365.100 31.4 -2.8 1.9 232.9 3.0 0.0 Vert AV 0.0 28.6 54.0 -25.4 Low ch, EUT on side 12395.840 43.9 -2.7 1.0 63.0 3.0 0.0 Horz PK 0.0 41.2 74.0 -32.8 High ch, EUT on side 12366.720 43.5 -2.8 1.0 207.0 3.0 0.0 Horz PK 0.0 40.7 74.0 -33.3 Low ch, EUT on side 12366.720 43.5 -2.8 1.0 207.0 3.0 0.0 Vert PK 0.0 40.7 74.0 -33.3 Low ch, EUT on side														
12366.100 31.4 -2.8 1.9 232.9 3.0 0.0 Vert AV 0.0 28.6 54.0 -25.4 Low ch, EUT on side 12395.840 43.9 -2.7 1.0 63.0 3.0 0.0 Horz PK 0.0 41.2 74.0 -32.8 High ch, EUT on side 12396.720 43.5 -2.8 1.0 207.0 3.0 0.0 Horz PK 0.0 40.7 74.0 -33.3 Low ch, EUT on side 12394.980 43.2 -2.7 1.3 260.0 3.0 0.0 Vert PK 0.0 40.5 74.0 -33.5 High ch, EUT on side														
12395,840 43.9 -2.7 1.0 63.0 3.0 0.0 Horz PK 0.0 41.2 74.0 -32.8 High ch, EUT on side 12366,720 43.5 -2.8 1.0 207.0 3.0 0.0 Horz PK 0.0 40.7 74.0 -33.3 Low ch, EUT on side 12394,980 43.2 -2.7 1.3 260.0 3.0 0.0 Vert PK 0.0 40.5 74.0 -33.5 High ch, EUT on side														
12366.720 43.5 -2.8 1.0 207.0 3.0 0.0 Horz PK 0.0 40.7 74.0 -33.3 Low ch, EUT on side 12394.980 43.2 -2.7 1.3 260.0 3.0 0.0 Vert PK 0.0 40.5 74.0 -33.5 High ch, EUT on side														
12394.980 43.2 -2.7 1.3 260.0 3.0 0.0 Vert PK 0.0 40.5 74.0 -33.5 High ch, EUT on side														
12366.050 42.6 -2.8 1.9 232.9 3.0 0.0 Vert PK 0.0 39.8 74.0 -34.2 Low ch, EUT on side														
	12366.050	42.6	-2.8	1.9	232.9	3.0	0.0	Vert	PK	0.0	39.8	74.0	-34.2	Low ch, EUT on side

10000

10

100



# FIELD STRENGTH OF FUNDAMENTAL

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

#### **MODES OF OPERATION**

Transmitting low channel and high channel

#### **POWER SETTINGS INVESTIGATED**

110VAC/60Hz

#### **CONFIGURATIONS INVESTIGATED**

CCOM0015 - 4

#### FREQUENCY RANGE INVESTIGATED

Start Frequency 2473 MHz Stop Frequency 2479 MHz

#### SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

#### **TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Interval
MN05 Cables	ESM Cable Corp.	Cables	MNI	5/5/2015	12 mo
Antenna, Horn	ETS Lindgren	3115	AJA	6/3/2014	24 mo
Spectrum Analyzer	Agilent	N9010A	AFI	1/27/2015	12 mo

#### **MEASUREMENT BANDWIDTHS**

Frequency Range	Peak Data	Quasi-Peak Data	Average Data
(MHz)	(kHz)	(kHz)	(kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

#### **TEST DESCRIPTION**

The antennas to be used with the EUT were tested. The EUT was transmitting and while set at the lowest channel, a middle channel, and the highest channel available. While scanning, emissions from the EUT were maximized by rotating the EUT, adjusting the measurement antenna height and polarization, and manipulating the EUT and EUT antenna in 3 orthogonal planes.

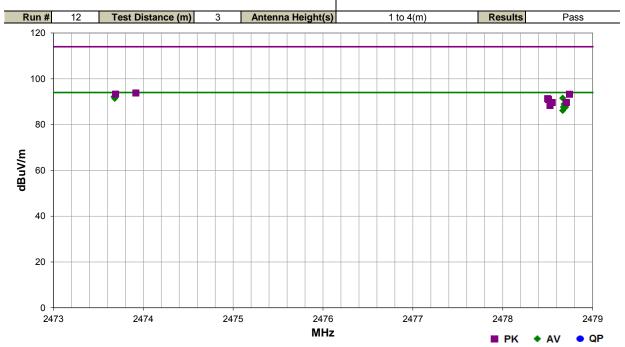


# **FIELD STRENGTH OF FUNDAMENTAL**

Work Order:	CCOM0015	0015 Date: 07/08/15								
Project:	None	Temperature:	23.4 °C	Tustin X saves						
Job Site:	MN05	Humidity:	44.5% RH							
Serial Number:	900000009	Barometric Pres.:	989.1 mbar	Tested by: Dustin Sparks						
EUT:	CD320 Commander Flex									
Configuration:										
Customer:	Cardiocom									
Attendees:	None									
EUT Power:	110VAC/60Hz									
Operating Mode:	Transmitting low channel and high channel									
Deviations:	None									
Comments:	None									

Test Specifications FCC 15.249:2015

**Test Method** ANSI C63.10:2009



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/ Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2473.675	56.0	36.1	1.0	12.1	3.0	0.0	Vert	AV	0.0	92.1	94.0	-1.9	Low ch, EUT on side
2478.667	55.4	36.1	1.1	41.1	3.0	0.0	Vert	AV	0.0	91.5	94.0	-2.5	High ch, EUT on side
2473.683	55.3	36.1	1.2	19.1	3.0	0.0	Horz	AV	0.0	91.4	94.0	-2.6	Low ch, EUT horz
2478.700	53.3	36.1	1.2	22.1	3.0	0.0	Horz	AV	0.0	89.4	94.0	-4.6	High ch, EUT horz
2478.683	52.8	36.1	1.4	49.0	3.0	0.0	Vert	AV	0.0	88.9	94.0	-5.1	High ch, EUT horz
2478.700	51.5	36.1	1.0	236.9	3.0	0.0	Vert	AV	0.0	87.6	94.0	-6.4	High ch, EUT vert
2478.675	51.5	36.1	1.0	185.1	3.0	0.0	Horz	AV	0.0	87.6	94.0	-6.4	High ch, EUT vert
2478.667	50.0	36.1	1.0	167.1	3.0	0.0	Horz	AV	0.0	86.1	94.0	-7.9	High ch, EUT on side
2473.917	57.7	36.1	1.0	12.1	3.0	0.0	Vert	PK	0.0	93.8	114.0	-20.2	Low ch, EUT on side
2473.692	57.2	36.1	1.2	19.1	3.0	0.0	Horz	PK	0.0	93.3	114.0	-20.7	Low ch, EUT horz
2478.742	57.1	36.1	1.1	41.1	3.0	0.0	Vert	PK	0.0	93.2	114.0	-20.8	High ch, EUT on side
2478.500	55.2	36.1	1.2	22.1	3.0	0.0	Horz	PK	0.0	91.3	114.0	-22.7	High ch, EUT horz
2478.508	54.8	36.1	1.4	49.0	3.0	0.0	Vert	PK	0.0	90.9	114.0	-23.1	High ch, EUT horz
2478.708	53.5	36.1	1.0	185.1	3.0	0.0	Horz	PK	0.0	89.6	114.0	-24.4	High ch, EUT vert
2478.550	53.5	36.1	1.0	236.9	3.0	0.0	Vert	PK	0.0	89.6	114.0	-24.4	High ch, EUT vert
2478.525	52.2	36.1	1.0	167.1	3.0	0.0	Horz	PK	0.0	88.3	114.0	-25.7	High ch, EUT on side