



Underwriters Laboratories Inc.
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Job Number:	771347
File Number:	MC3181
Date:	01 Nov 2007
Model:	Intercom II
FCC ID:	JLFTRX2

Electromagnetic Compatibility Test Report

For

Chamberlain Group Inc.

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Underwriters Laboratories Inc.
1285 Walt Whitman Rd.
Melville, NY 11747

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Job Number: 771347 File Number: MC3181 Page 2 of 83
Model Number: Intercom II
Client Name: Chamberlain Group Inc.
FCC ID: JLFTRX2

Test Report Details

Tests Performed By: **Underwriters Laboratories Inc.**
1285 Walt Whitman Rd.
Melville, NY 11747

Tests Performed For: **Chamberlain Group Inc.**
845 Larch Av
Elmhurst, IL 60126

Applicant Contact: **Hank Sieradzki**
Phone: **(630) 993-6564**
E-mail: **Hank.Sieradzki@chamberlaingroup.com**

Test Report Date: **01 Nov 2007**

Product Type: **Wireless Intercom**

Product standards **FCC Part 15, Subpart C, 15.207, 15.209, 15.215, 15.249**
FCC Part 15, Subpart B, 15.107, 15.109

Model Number: **Intercom II**

Sample Serial Number: **Not Provided**

EUT Category: **Low Power Transmitter**

Testing Start Date: **17 Sep 2007**

Date Testing Complete: **01 Nov 2007**

Overall Results: Compliant

Underwriters Laboratories Inc. reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. Underwriters Laboratories Inc. shall have no liability for any deductions, inferences or generalizations drawn by the client or others from Underwriters Laboratories Inc. issued reports. This report shall not be used to claim, constitute or imply product certification, approval, or endorsement by NVLAP, A2LA, or any agency of the US government.

This report may contain test results that are not covered by the NVLAP or A2LA accreditation. The scope of accreditation is limited to the specific tests that are listed on the NVLAP and/or A2LA websites referenced at the end of this report.

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Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
None	Original	--	--

1.0 GENERAL - Product Description

1.1 Equipment Description

Wirefree Intercom Reporter

With the reporter Wirefree Intercom, you can talk up to 1000 feet completely wire free with a 900 MHz secure digital radius.

For privacy, your intercom forms an exclusive network, and response only to other intercoms in your network.

Even conversations within your network are secure, as intercoms automatically pair up, blocking all other intercoms from listening in.

Additional features include hands-free operation, baby monitoring with adjustable sensitivity, and non-secure conferencing mode.

Multiple Uses Include:

- Garage or Workshop
- Between Offices
- Back Porch or Pool
- Camping or Hunting
- Temporary Work Locations
- Nursery or Patient Monitoring
- Home Office
- Motor Home or Guest Room
- Network Wide Conference Mode

The antenna is integral to the device and is permanently attached.

1.2 Equipment Marking Plate

Not Applicable

1.3 Device Configuration During Test

1.3.1 Equipment Used During Test:

Use	Product Type	Manufacturer	Model	Comments
EUT	Wireless Intercom	Chamberlain Group Inc.	Intercom II	None
ACC	AC/DC Converter	I3	PK41-120300	None

Note: **EUT** - Equipment Under Test, **AE** - Auxiliary/Associated Equipment, or **SIM** - Simulator (Not Subjected to Test)

1.3.2 Input/Output Ports:

Port #	Name	Type*	Cable Max. >3m (Y/N)	Cable Shielded (Y/N)	Comments
0	Enclosure	N/E	—	—	None
1	Mains	AC	Y	N	None
2	Mains	Battery	N	N	None

Note:
 AC = AC Power Port DC = DC Power Port N/E = Non-Electrical
 I/O = Signal Input or Output Port (Not Involved in Process Control)
 TP = Telecommunication Ports

1.3.3 EUT Internal Operating Frequencies:

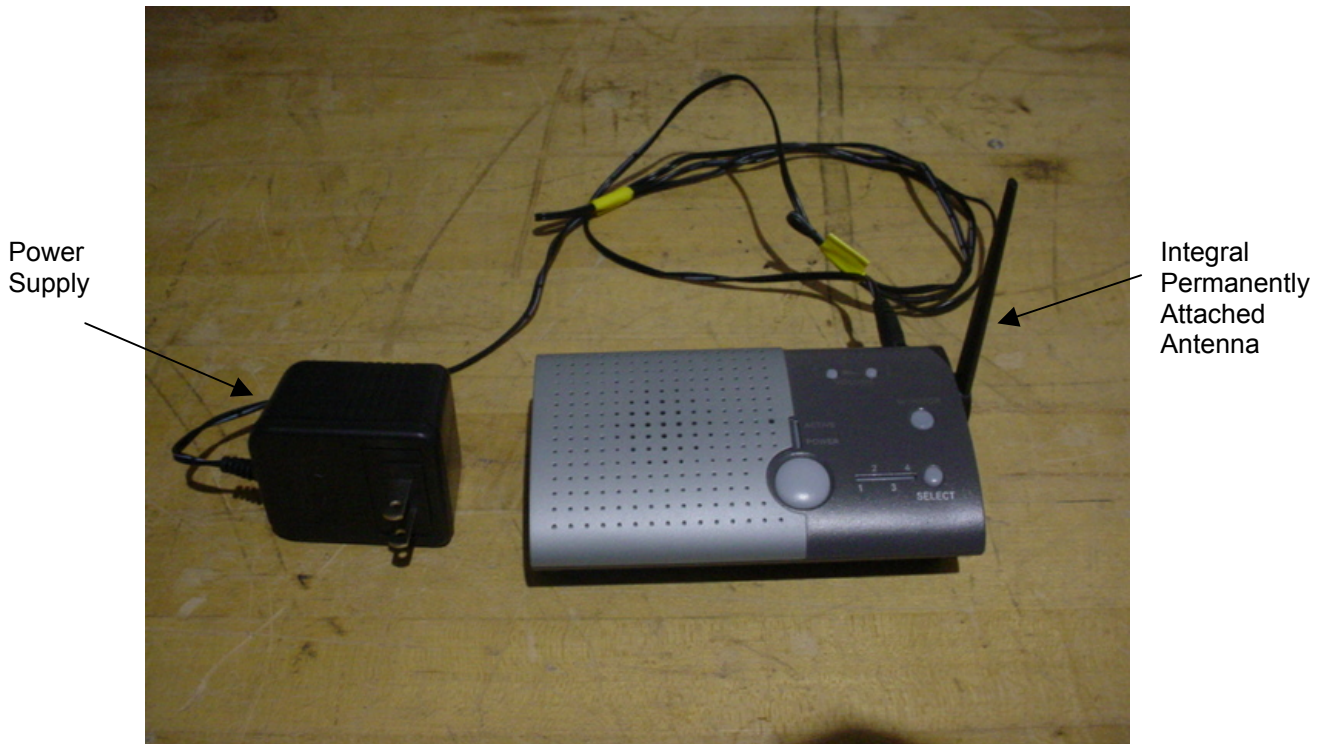
Frequency (MHz)	Description	Frequency (MHz)	Description
1.8432	Codec clock	903-927	Transmit Channel band

1.3.4 Power Interface:

Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
Rated	120	-	-	AC-60Hz	Single Phase	None
1	120	-	-	AC-60Hz	Single Phase	None
2	6	-	-	DC	-	4 AA Batteries

1.4 Block Diagram:

The diagram below illustrates the configuration of the equipment above.



1.5 EUT Configurations

Mode #	Description
1	Stand Alone – Battery Operated
2	Stand Alone – AC Powered

1.6 EUT Operation Modes

Mode #	Description
1	Transmitting on Channel A – 903MHz
2	Transmitting on Channel B – 914MHz
3	Transmitting on Channel C – 927MHz
4	Receive mode

2.0 Summary

The tests listed in the Summary of Testing section of this report have been performed and the results recorded by Underwriters Laboratories Inc. in accordance with the procedures stated in each test requirement and specification. The applicant determined the list of tests performed were applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

2.1 Deviations from standard test methods

None

2.2 Device Modifications Necessary for Compliance

None

2.3 Reference Standards

Standard Number	Standard Name	Standard Date
FCC Part 15, Subpart B	Code of Federal Regulations, Part 15, Radio Frequency Devices	2007
FCC Part 15, Subpart C	Code of Federal Regulations, Part 15, Radio Frequency Devices	2007

2.4 Results Summary

Requirement – Test	Result (Compliant / Non-Compliant)*
15.207 Conducted Emissions	Compliant
15.209 General Radiated Emissions	Compliant
15.249 Frequency Stability	Not Applicable (note 1)
15.249 Fundamental Radiated Emissions	Compliant
15.249 Occupied Bandwidth	Compliant
15.109 Radiated Emissions - Unintentional	Compliant
15.107 Conducted Emissions - Unintentional	Compliant

Note 1: Frequency stability is only required on fixed point-to-point transmitters operating in the band 24.05-24.25GHz per 15.249(b).

Test Engineer:

Reviewer:




Bob DeLisi (Ext.22452)
 Senior Staff Engineer
 International EMC Services
 Conformity Assessment Services-

Joe Danisi(Ext.23055)
 Lead Engineering Associate
 International EMC Services
 Conformity Assessment Services

Any information and documentation involving UL Mark services are provided on behalf of Underwriters Laboratories Inc. (UL) or any authorized licensee of UL.

3.0 Calibration of Equipment Used for Measurement

All test equipment and test accessories are calibrated on a regular basis. The maximum time between calibrations is one year or the manufacturers' recommendation, whichever is less.

All test equipment calibrations are traceable to the National Institute of Standards and Technology (NIST); therefore, all test data recorded in this report is traceable to NIST.

4.0 EMISSIONS TEST RESULTS

The emissions tests were performed according to following regulations:

----- United States -----

Code of Federal Regulations Title 47	Part 15 - Radio Frequency Devices
--------------------------------------	-----------------------------------

Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be verified at the time the test is conducted.

Ambient Temperature, °C	22.5 ± 2.5	Relative Humidity, %	45 ± 15	Barometric Pressure, mBar	950 ± 150
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4.1 Test Conditions and Results – MAINS TERMINAL – CONDUCTED EMISSIONS

Test Description	Measurements were made on a ground plane. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.	
Basic Standard	FCC Part 15, Subpart B, 15.107 FCC Part 15, Subpart C, 15.207	
UL LPG	80-EM-S0026	
	Frequency range on each side of line	Measurement Point
Fully configured sample scanned over the following frequency range	150kHz to 30MHz	Mains
Limits		
Frequency (MHz)	Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Supplementary information: None		

Table 1 Conducted Emissions EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	1
1	1	2
1	1	3
1	1	4
Supplementary information: None		

Table 2 Conducted Emissions Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
Conducted Emissions – GP 1			
Spectrum Analyzer	Agilent	E7402A	ME5B-123
LISN	EMCO	3825/2R	ME5-790
Switch Driver	HP	11713A	44397
RF Switch Box	UL	4	44404
Measurement Software	UL	Version 9.3	44736
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	43734

Figure 1 Test Setup for Conducted Emissions



Figure 2 Conducted Emissions Graph (903MHz- AC Powered)

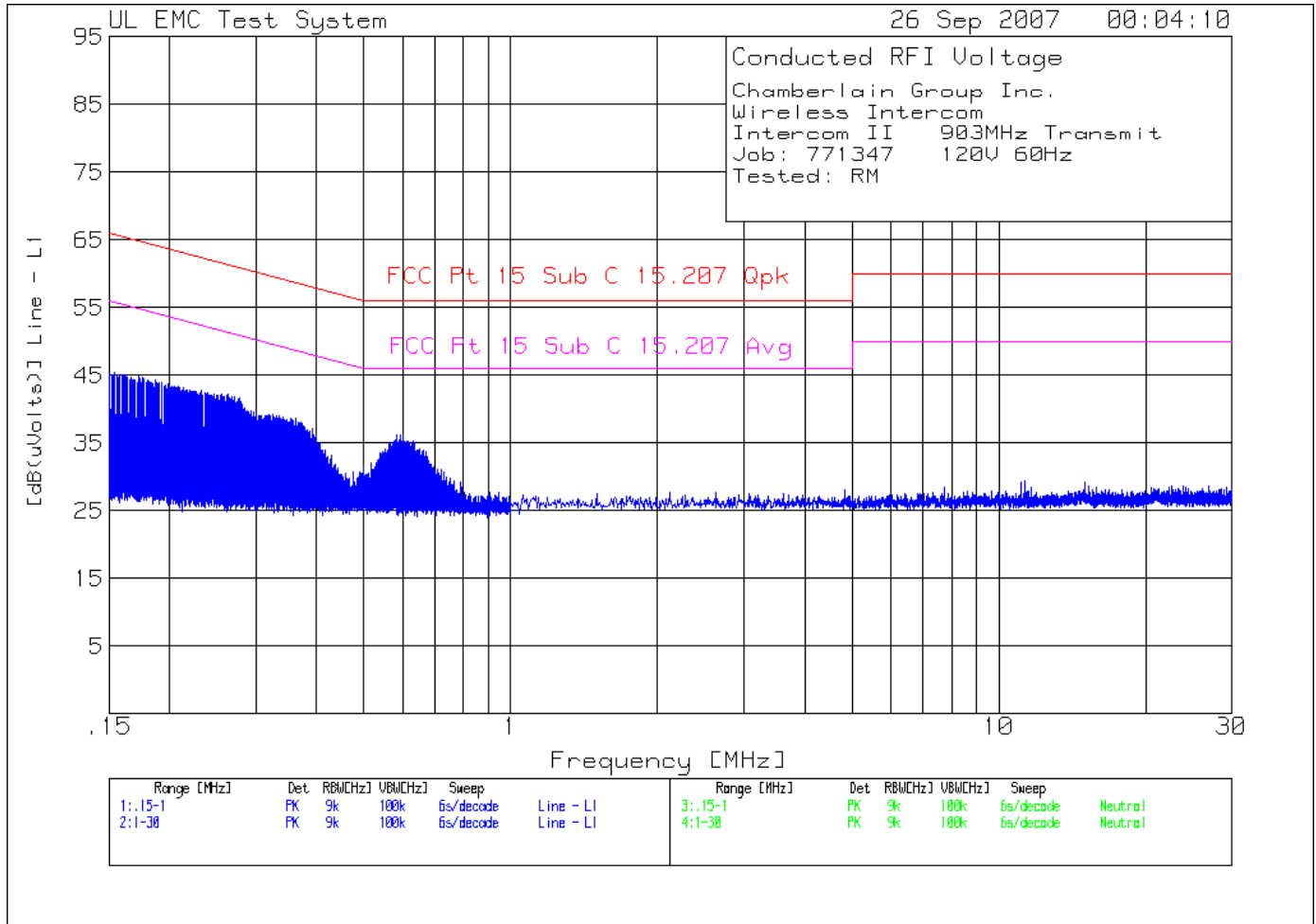


Table 3 Conducted Emissions Data Points

Chamberlain Group Inc.
 Wireless Intercom
 Intercom II 903MHz Transmit
 Job: 771347 120V 60Hz
 Tested: RM

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
Line - L1 .15 - 1MHz -----											
1	.1871	32.74 pk	11.6	0	44.34	64.2	54.2	-	-	-	-
				Margin [dB]		-19.86	-9.86	-	-	-	-
2	.27213	31.03 pk	10.9	0	41.93	61.1	51.1	-	-	-	-
				Margin [dB]		-19.17	-9.17	-	-	-	-
3	.36648	27.59 pk	10.6	0	38.19	58.6	48.6	-	-	-	-
				Margin [dB]		-20.41	-10.41	-	-	-	-
4	.59376	25.72 pk	10.4	0	36.12	56	46	-	-	-	-
				Margin [dB]		-19.88	-9.88	-	-	-	-
Line - L1 1 - 30MHz -----											
5	4.83387	17.54 pk	10.5	0	28.04	56	46	-	-	-	-
				Margin [dB]		-27.96	-17.96	-	-	-	-
6	11.32976	18.63 pk	10.7	0	29.33	60	50	-	-	-	-
				Margin [dB]		-30.67	-20.67	-	-	-	-

LIMIT 1: FCC Pt 15 Sub C 15.207 Qpk
 LIMIT 2: FCC Pt 15 Sub C 15.207 Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result

Figure 3 Conducted Emissions Graph (903MHz – AC Powered)

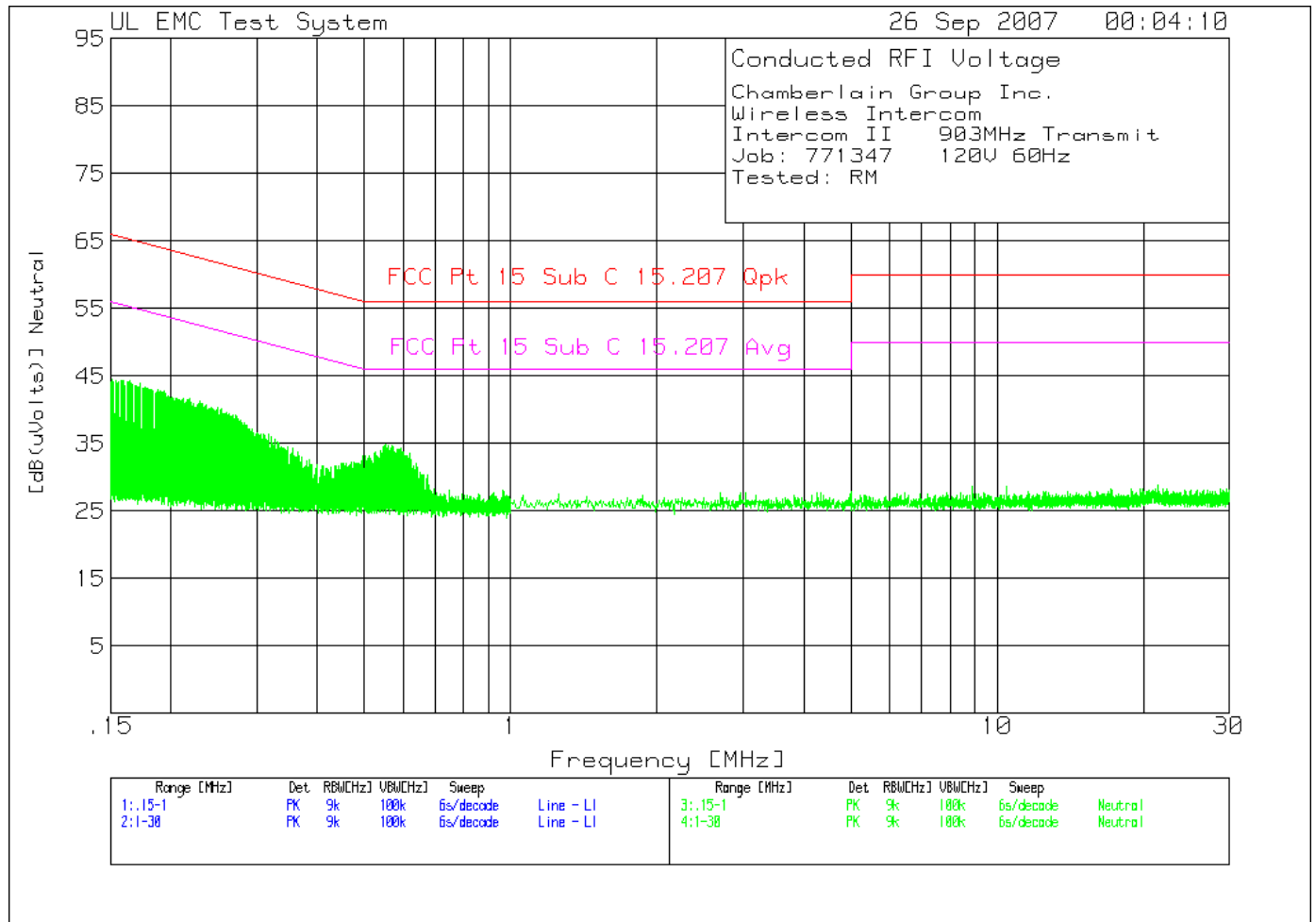


Table 4 Conducted Emissions Data Points

Chamberlain Group Inc.
 Wireless Intercom
 Intercom II 903MHz Transmit
 Job: 771347 120V 60Hz
 Tested: RM

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
Neutral .15 - 1MHz -----											
7	.15848	32.46 pk	11.9	0	44.36	65.5	55.5	-	-	-	-
				Margin [dB]		-21.14	-11.14	-	-	-	-
8	.22993	30.16 pk	11.1	0	41.26	62.5	52.5	-	-	-	-
				Margin [dB]		-21.24	-11.24	-	-	-	-
9	.34718	23.84 pk	10.7	0	34.54	59	49	-	-	-	-
				Margin [dB]		-24.46	-14.46	-	-	-	-
10	.55242	24.49 pk	10.4	0	34.89	56	46	-	-	-	-
				Margin [dB]		-21.11	-11.11	-	-	-	-
Neutral 1 - 30MHz -----											
11	4.33475	17.35 pk	10.4	0	27.75	56	46	-	-	-	-
				Margin [dB]		-28.25	-18.25	-	-	-	-
12	20.79147	16.37 pk	11.6	0	27.97	60	50	-	-	-	-
				Margin [dB]		-32.03	-22.03	-	-	-	-

LIMIT 1: FCC Pt 15 Sub C 15.207 Qpk
 LIMIT 2: FCC Pt 15 Sub C 15.207 Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result

Figure 4 Conducted Emissions Graph (914MHz – AC Powered)

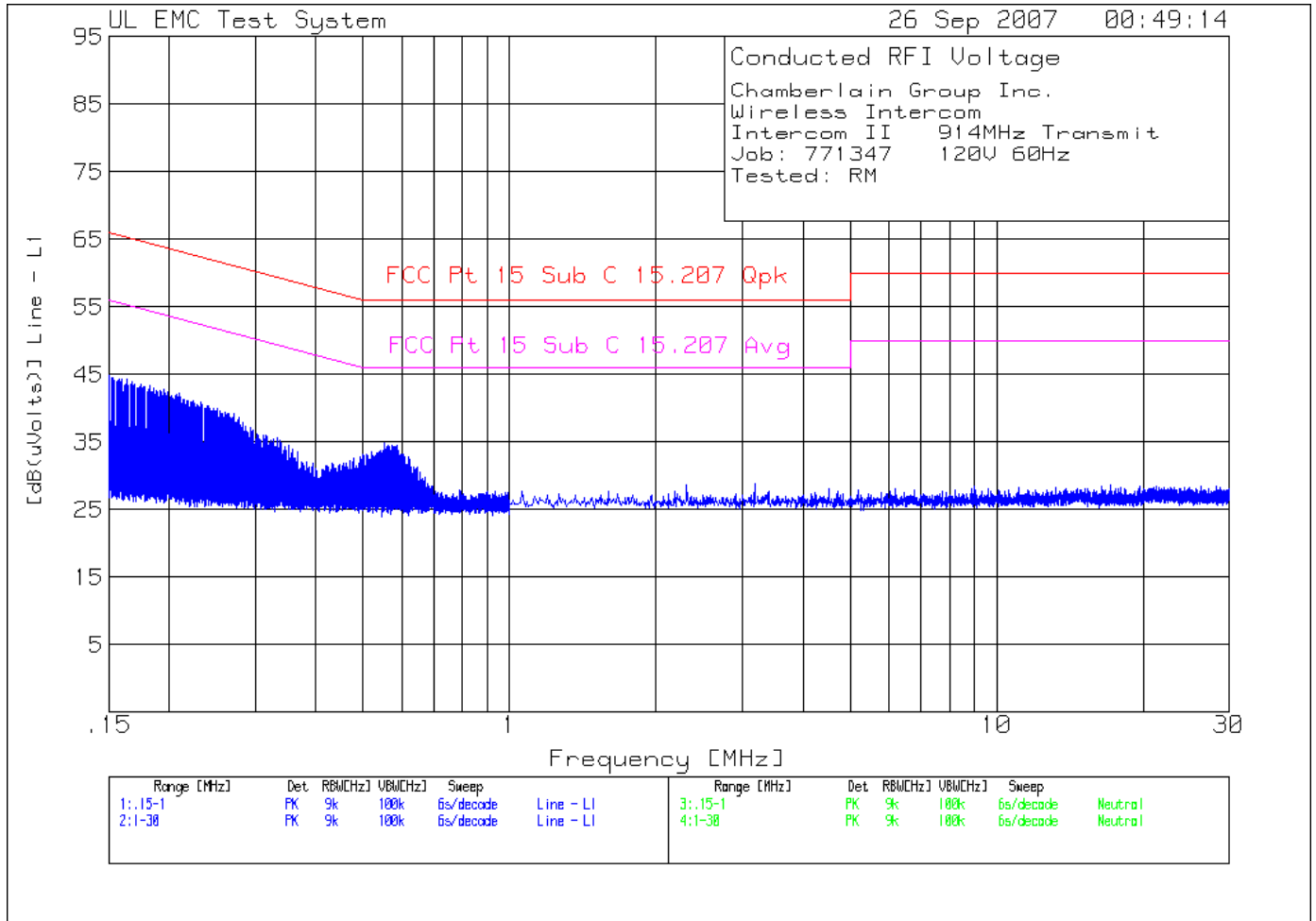


Table 5 Conducted Emissions Data Points

Chamberlain Group Inc.
 Wireless Intercom
 Intercom II 914MHz Transmit
 Job: 771347 120V 60Hz
 Tested: RM

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6

Line - L1	.15	-	1MHz	-	-	-	-	-	-	-	-
1	.16399	32.48 pk	11.9	0	44.38	65.3	55.3	-	-	-	-
				Margin [dB]		-20.92	-10.92	-	-	-	-
2	.24689	28.91 pk	11	0	39.91	61.9	51.9	-	-	-	-
				Margin [dB]		-21.99	-11.99	-	-	-	-
3	.34485	23.7 pk	10.7	0	34.4	59.1	49.1	-	-	-	-
				Margin [dB]		-24.7	-14.7	-	-	-	-
4	.54415	23.35 pk	10.4	0	33.75	56	46	-	-	-	-
				Margin [dB]		-22.25	-12.25	-	-	-	-

Line - L1	1	-	30MHz	-	-	-	-	-	-	-	-
5	3.18459	18.54 pk	10.4	0	28.94	56	46	-	-	-	-
				Margin [dB]		-27.06	-17.06	-	-	-	-
6	17.17461	17.82 pk	10.9	0	28.72	60	50	-	-	-	-
				Margin [dB]		-31.28	-21.28	-	-	-	-

LIMIT 1: FCC Pt 15 Sub C 15.207 Qpk
 LIMIT 2: FCC Pt 15 Sub C 15.207 Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result

Figure 5 Conducted Emissions Graph (914MHz - AC Powered)

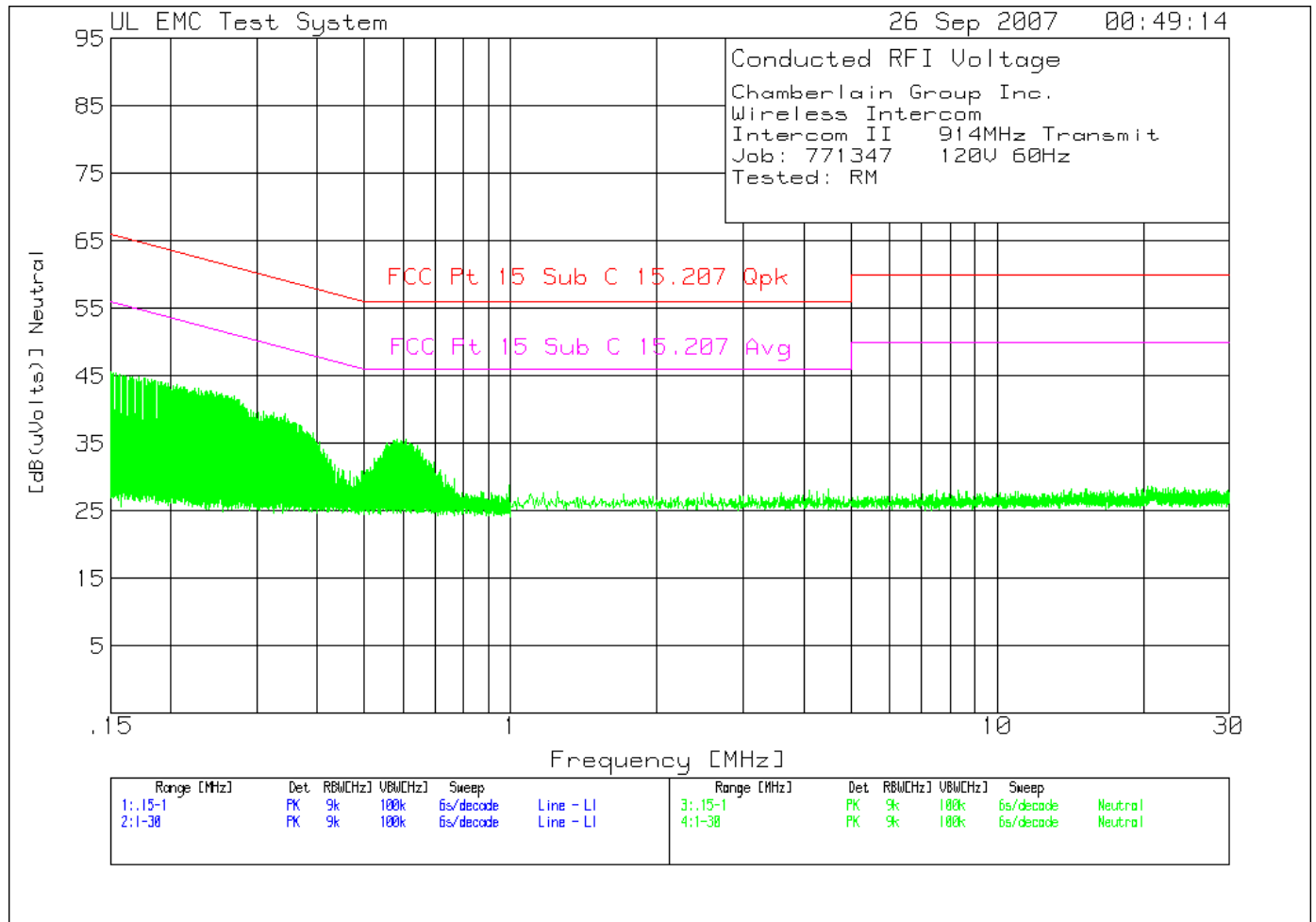


Table 6 Conducted Emissions Data Points

Chamberlain Group Inc.
 Wireless Intercom
 Intercom II 914MHz Transmit
 Job: 771347 120V 60Hz
 Tested: RM

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
Neutral .15 - 1MHz -----											
7	.1536	33.4 pk	12	0	45.4	65.8	55.8	-	-	-	-
				Margin [dB]		-20.4	-10.4	-	-	-	-
8	.19707	32.46 pk	11.5	0	43.96	63.7	53.7	-	-	-	-
				Margin [dB]		-19.74	-9.74	-	-	-	-
9	.25474	31.41 pk	11	0	42.41	61.6	51.6	-	-	-	-
				Margin [dB]		-19.19	-9.19	-	-	-	-
10	.34421	28.69 pk	10.7	0	39.39	59.1	49.1	-	-	-	-
				Margin [dB]		-19.71	-9.71	-	-	-	-
11	.59588	24.9 pk	10.4	0	35.3	56	46	-	-	-	-
				Margin [dB]		-20.7	-10.7	-	-	-	-

Neutral 1 - 30MHz -----											
12	2.49738	17.31 pk	10.4	0	27.71	56	46	-	-	-	-
				Margin [dB]		-28.29	-18.29	-	-	-	-
13	8.63881	17.33 pk	10.6	0	27.93	60	50	-	-	-	-
				Margin [dB]		-32.07	-22.07	-	-	-	-
14	25.5802	16.86 pk	11	0	27.86	60	50	-	-	-	-
				Margin [dB]		-32.14	-22.14	-	-	-	-

LIMIT 1: FCC Pt 15 Sub C 15.207 Qpk
 LIMIT 2: FCC Pt 15 Sub C 15.207 Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result

Figure 6 Conducted Emissions Graph (927MHz – AC Powered)

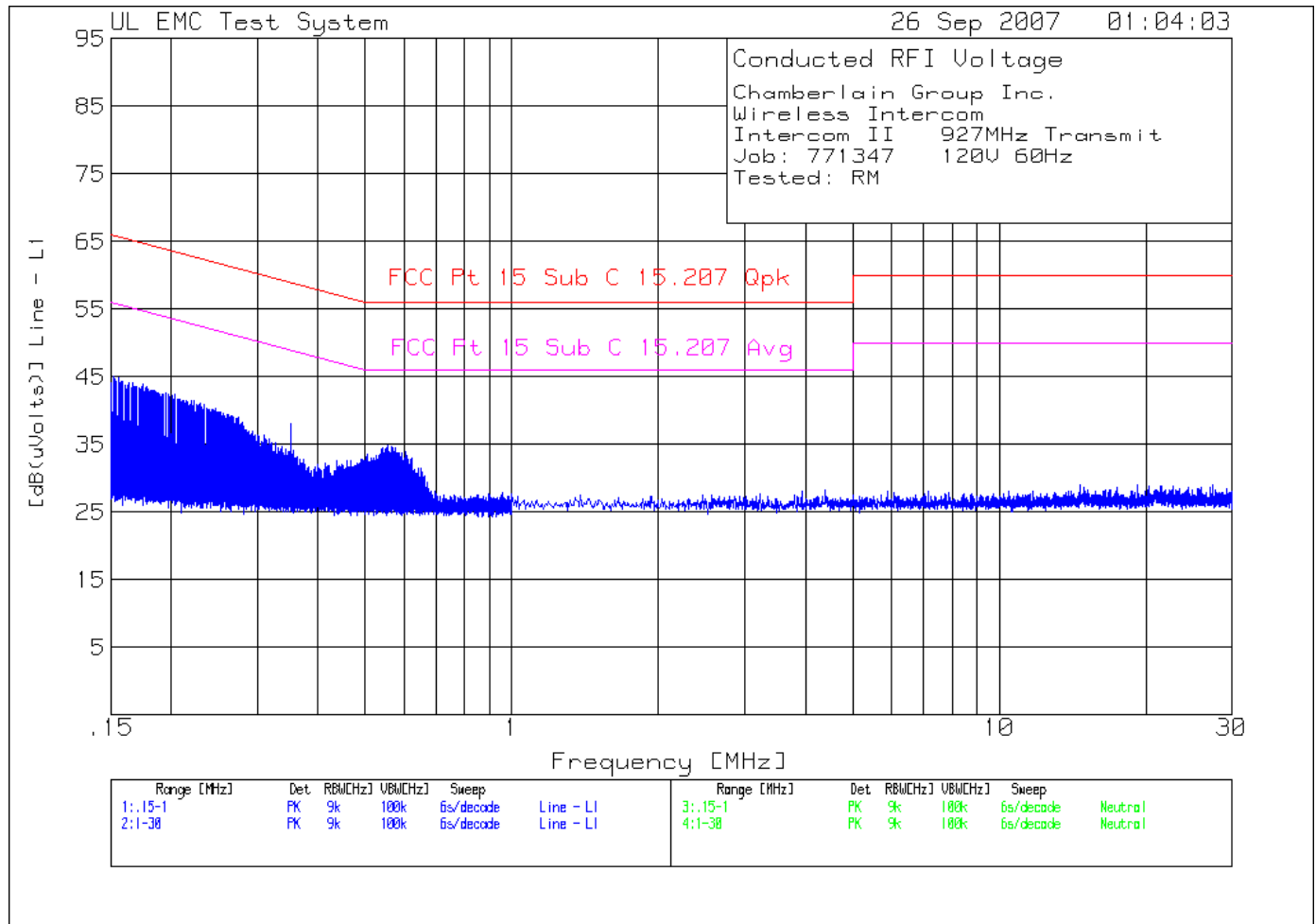


Table 7 Conducted Emissions Data Points

Chamberlain Group Inc.
 Wireless Intercom
 Intercom II 927MHz Transmit
 Job: 771347 120V 60Hz
 Tested: RM

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
Line - L1 .15 - 1MHz -----											
1	.15806	32.39 pk	11.9	0	44.29	65.6	55.6	-	-	-	-
				Margin [dB]		-21.31	-11.31	-	-	-	-
2	.20873	30.45 pk	11.3	0	41.75	63.3	53.3	-	-	-	-
				Margin [dB]		-21.55	-11.55	-	-	-	-
3	.26704	28.29 pk	10.9	0	39.19	61.2	51.2	-	-	-	-
				Margin [dB]		-22.01	-12.01	-	-	-	-
4	.56726	24.27 pk	10.4	0	34.67	56	46	-	-	-	-
				Margin [dB]		-21.33	-11.33	-	-	-	-

Line - L1 1 - 30MHz -----											
5	4.39985	17.88 pk	10.5	0	28.38	56	46	-	-	-	-
				Margin [dB]		-27.62	-17.62	-	-	-	-
6	16.95036	17.33 pk	10.9	0	28.23	60	50	-	-	-	-
				Margin [dB]		-31.77	-21.77	-	-	-	-

LIMIT 1: FCC Pt 15 Sub C 15.207 Qpk
 LIMIT 2: FCC Pt 15 Sub C 15.207 Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result

Figure 7 Conducted Emissions Graph (927MHz – AC Powered)

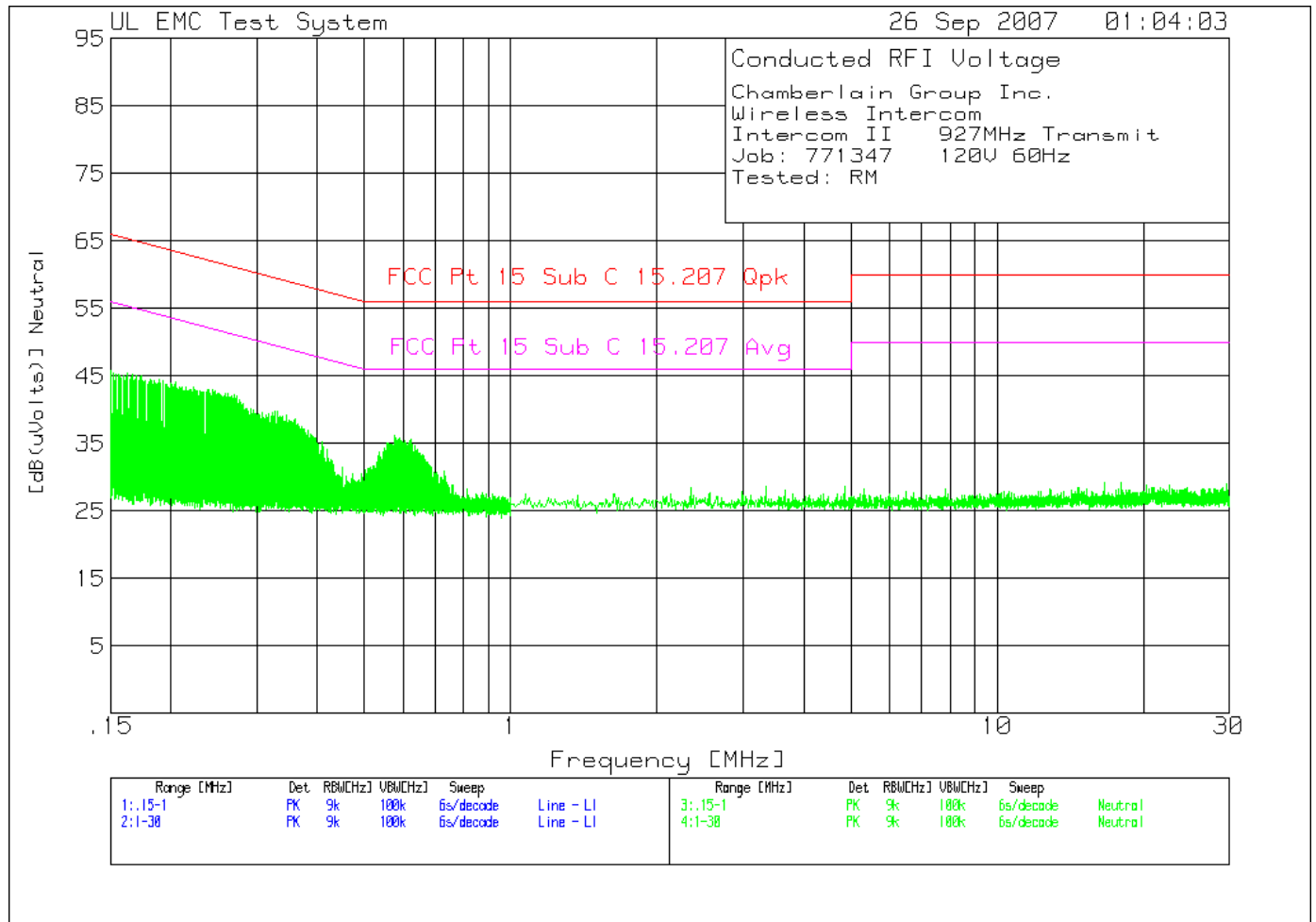


Table 8 Conducted Emissions Data Points

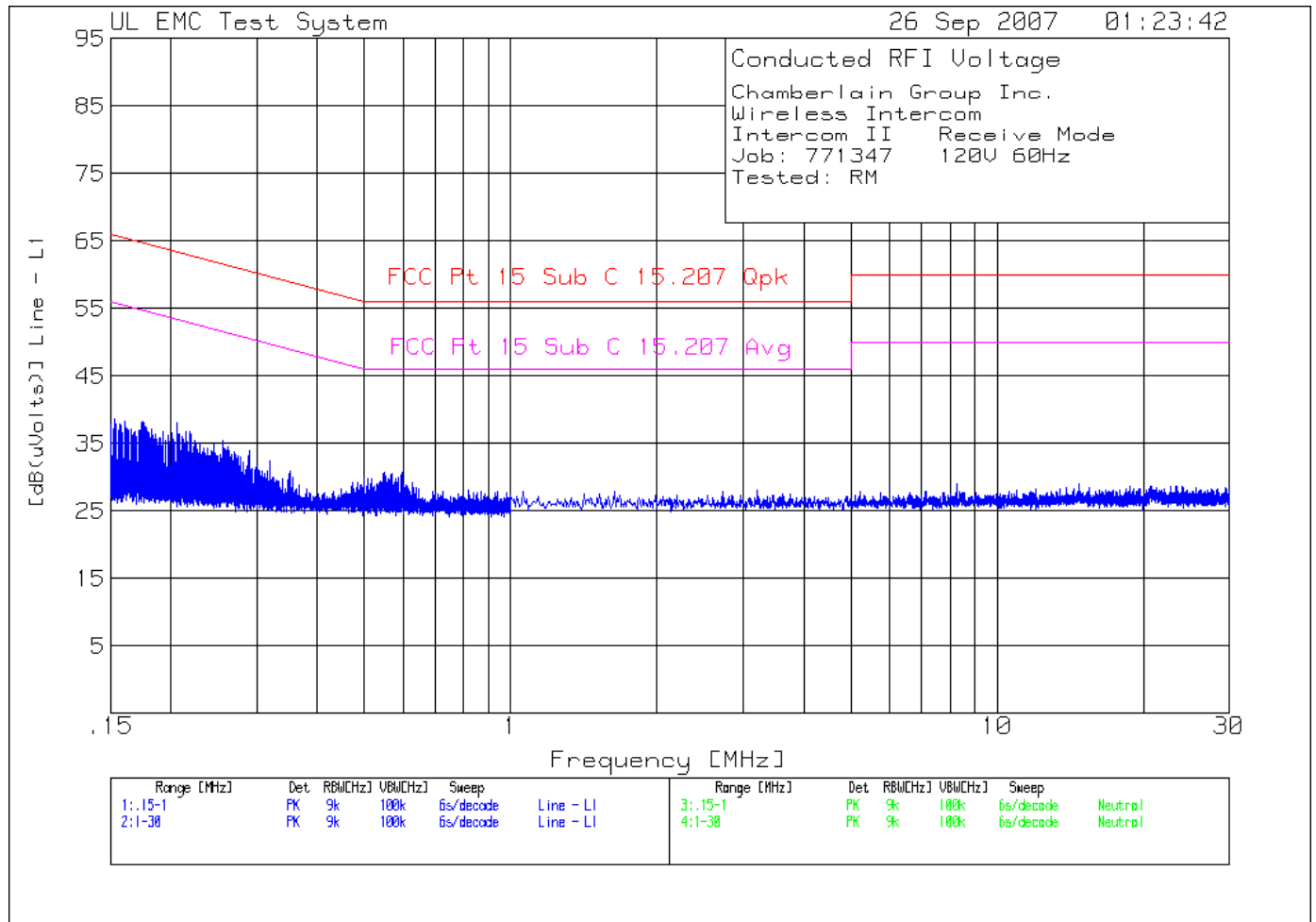
Chamberlain Group Inc.
 Wireless Intercom
 Intercom II 927MHz Transmit
 Job: 771347 120V 60Hz
 Tested: RM

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
Neutral .15 - 1MHz -----											
7	.16293	33.49 pk	11.9	0	45.39	65.3	55.3	-	-	-	-
				Margin [dB]		-19.91	-9.91	-	-	-	-
8	.26258	31.36 pk	11	0	42.36	61.3	51.3	-	-	-	-
				Margin [dB]		-18.94	-8.94	-	-	-	-
9	.33022	29.02 pk	10.7	0	39.72	59.4	49.4	-	-	-	-
				Margin [dB]		-19.68	-9.68	-	-	-	-
10	.57595	25.78 pk	10.4	0	36.18	56	46	-	-	-	-
				Margin [dB]		-19.82	-9.82	-	-	-	-
Neutral 1 - 30MHz -----											
11	3.34373	18.21 pk	10.4	0	28.61	56	46	-	-	-	-
				Margin [dB]		-27.39	-17.39	-	-	-	-
12	17.99925	18.37 pk	10.8	0	29.17	60	50	-	-	-	-
				Margin [dB]		-30.83	-20.83	-	-	-	-

LIMIT 1: FCC Pt 15 Sub C 15.207 Qpk
 LIMIT 2: FCC Pt 15 Sub C 15.207 Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result

Figure 8 Conducted Emissions Graph (Receive Mode – AC Powered)



Note: Limit shown is equivalent to 15.107 for digital devices and shows compliance to 15.107.

Table 9 Conducted Emissions Data Points

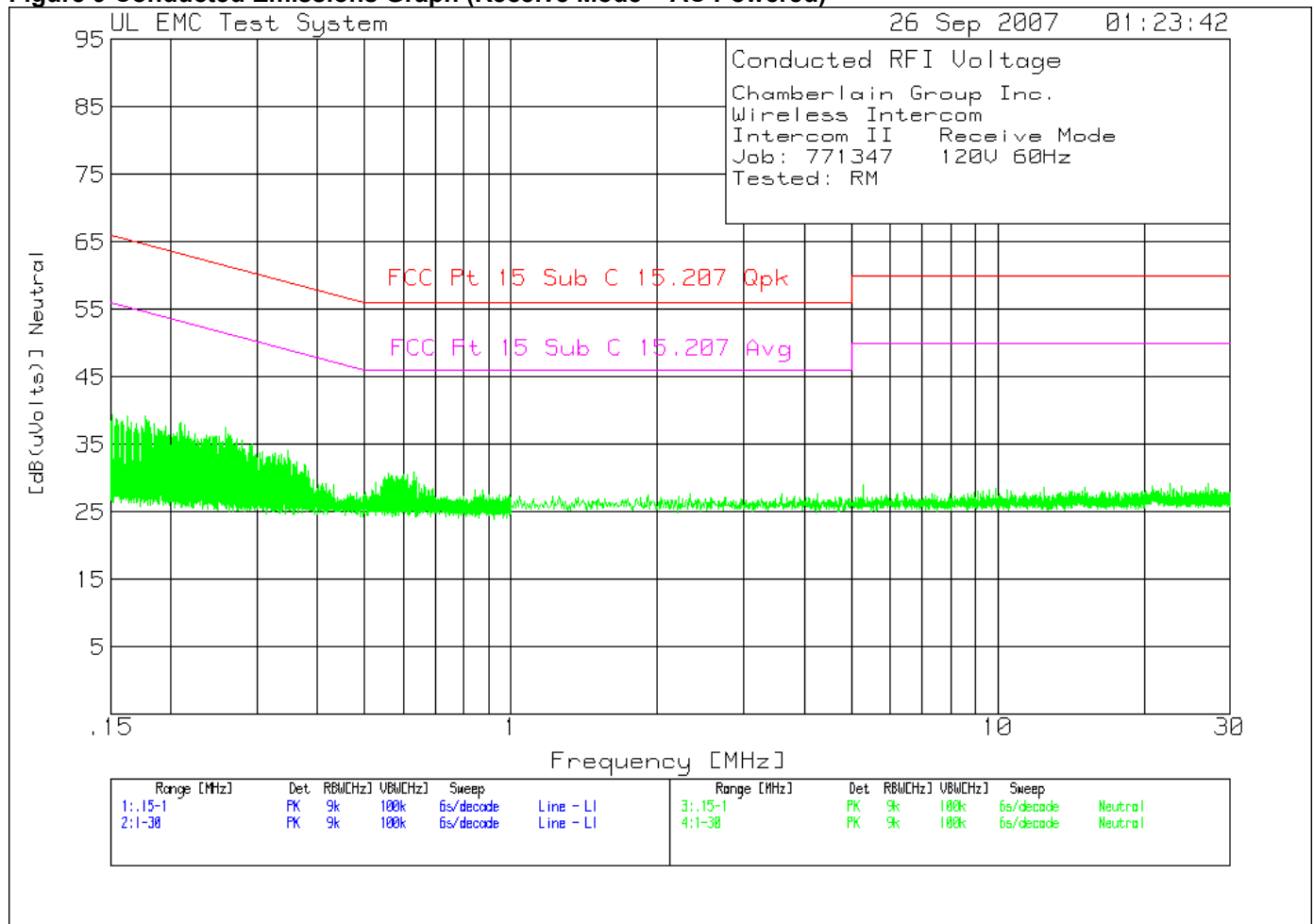
Chamberlain Group Inc.
 Wireless Intercom
 Intercom II Receive Mode
 Job: 771347 120V 60Hz
 Tested: RM

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
Line - L1 .15 - 1MHz											
1	.17481	26.63 pk	11.7	0	38.33	64.7	54.7	-	-	-	-
				Margin [dB]		-26.37	-16.37	-	-	-	-
2	.20513	26.62 pk	11.4	0	38.02	63.4	53.4	-	-	-	-
				Margin [dB]		-25.38	-15.38	-	-	-	-
3	.26152	23.58 pk	11	0	34.58	61.4	51.4	-	-	-	-
				Margin [dB]		-26.82	-16.82	-	-	-	-
4	.54882	20.27 pk	10.4	0	30.67	56	46	-	-	-	-
				Margin [dB]		-25.33	-15.33	-	-	-	-
Line - L1 1 - 30MHz											
5	8.26989	18.47 pk	10.6	0	29.07	60	50	-	-	-	-
				Margin [dB]		-30.93	-20.93	-	-	-	-
6	24.16962	17.52 pk	11	0	28.52	60	50	-	-	-	-
				Margin [dB]		-31.48	-21.48	-	-	-	-

LIMIT 1: FCC Pt 15 Sub B 15.107 Qpk
 LIMIT 2: FCC Pt 15 Sub B 15.107 Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result

Figure 9 Conducted Emissions Graph (Receive Mode – AC Powered)



Note: Limit shown is equivalent to 15.107 for digital devices and shows compliance to 15.107.

Table 10 Conducted Emissions Data Points

Chamberlain Group Inc.
 Wireless Intercom
 Intercom II Receive Mode
 Job: 771347 120V 60Hz
 Tested: RM

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
Neutral .15 - 1MHz -----											
7	.1623	27.31 pk	11.9	0	39.21	65.3	55.3	-	-	-	-
				Margin [dB]		-26.09	-16.09	-	-	-	-
8	.20958	26.96 pk	11.3	0	38.26	63.2	53.2	-	-	-	-
				Margin [dB]		-24.94	-14.94	-	-	-	-
9	.25919	26.57 pk	11	0	37.57	61.5	51.5	-	-	-	-
				Margin [dB]		-23.93	-13.93	-	-	-	-
10	.63172	20.49 pk	10.4	0	30.89	56	46	-	-	-	-
				Margin [dB]		-25.11	-15.11	-	-	-	-
Neutral 1 - 30MHz -----											
11	5.2896	18.51 pk	10.5	0	29.01	60	50	-	-	-	-
				Margin [dB]		-30.99	-20.99	-	-	-	-
12	26.70142	17.66 pk	11	0	28.66	60	50	-	-	-	-
				Margin [dB]		-31.34	-21.34	-	-	-	-

LIMIT 1: FCC Pt 15 Sub B 15.107 Qpk
 LIMIT 2: FCC Pt 15 Sub B 15.107 Avg

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result

4.2 Test Conditions and Results – OCCUPIED BANDWIDTH

Test Description	Measurements were made in the laboratory environment. A Dipole (or equivalent) antenna tuned to the transmit frequency was attached to the input of a spectrum analyzer. The device was operated and the spectrum analyzer resolution bandwidth set per the appropriate standard.	
Basic Standard	FCC Part 15, Subpart C 15.215	
Occupied Bandwidth Limits		
Lower and Upper frequency must be within 902-928MHz		

Table 11 Occupied Bandwidth Configuration Settings

Power Interface Mode # (See Section 1.3.4)	EUT Configurations Mode # (See Section 1.6)	EUT Operation Mode # (See 1.5)
1	1	1
1	1	3
2	1	1
2	1	3
Supplementary information: None		

Table 12 Occupied Bandwidth Spectrum Analyzer Settings

Resolution Bandwidth (MHz)	Occupied Bandwidth Requirements
	dBc
0.010	-20
Supplementary information: None	

Table 13 Occupied Bandwidth Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
Spectrum Analyzer	Advantest	R3261C	5A229
Dipole Antenna	EMCO	3121C	3359
Temp/Humidity/Pressure Meter	Cole Parmer	99760-00	4268
Measurement Software	UL	Version 9.3	44740

Figure 10 Test Setup for Occupied Bandwidth



Figure 11 Occupied Bandwidth Graph (AC Powered – 903MHz)

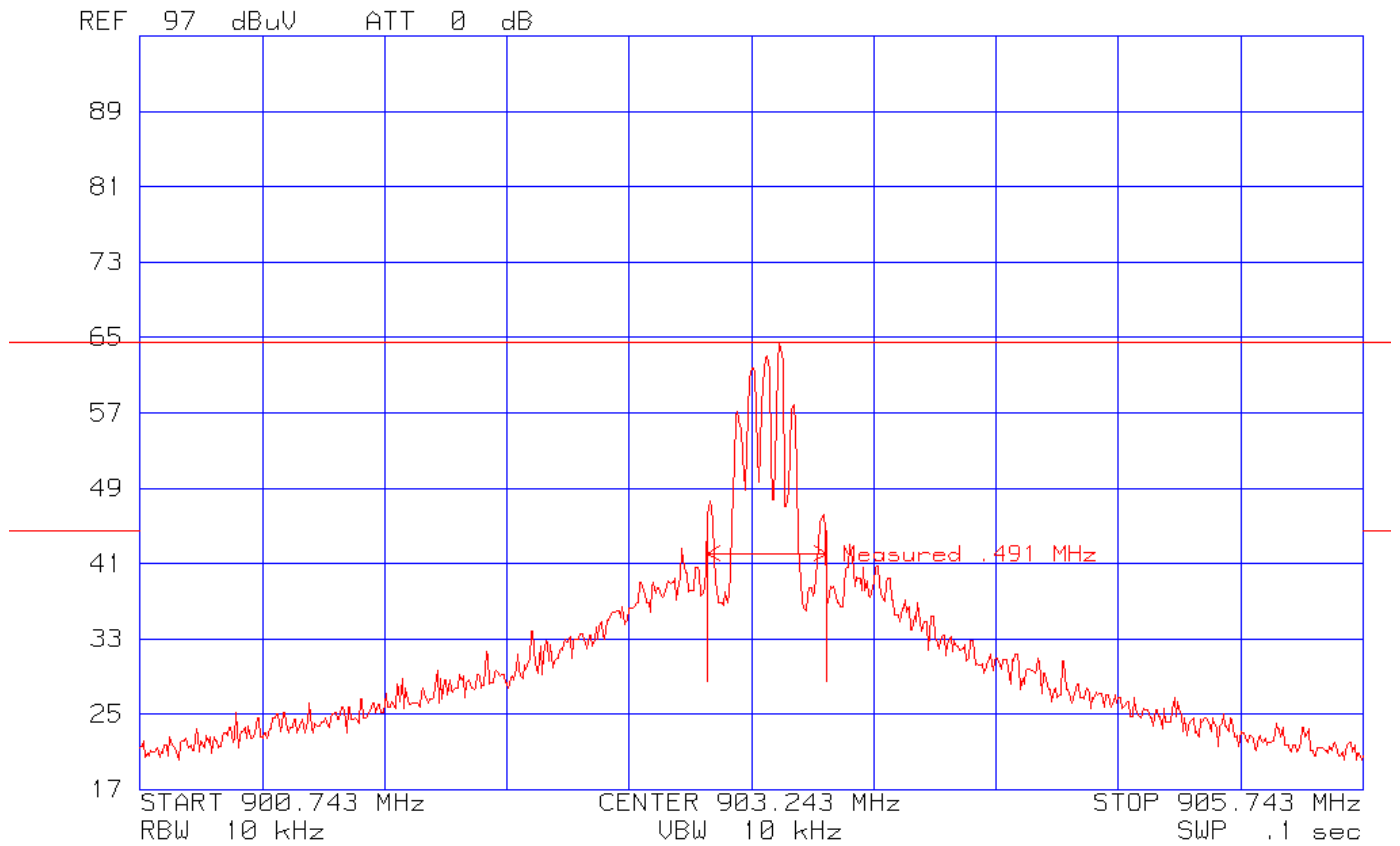
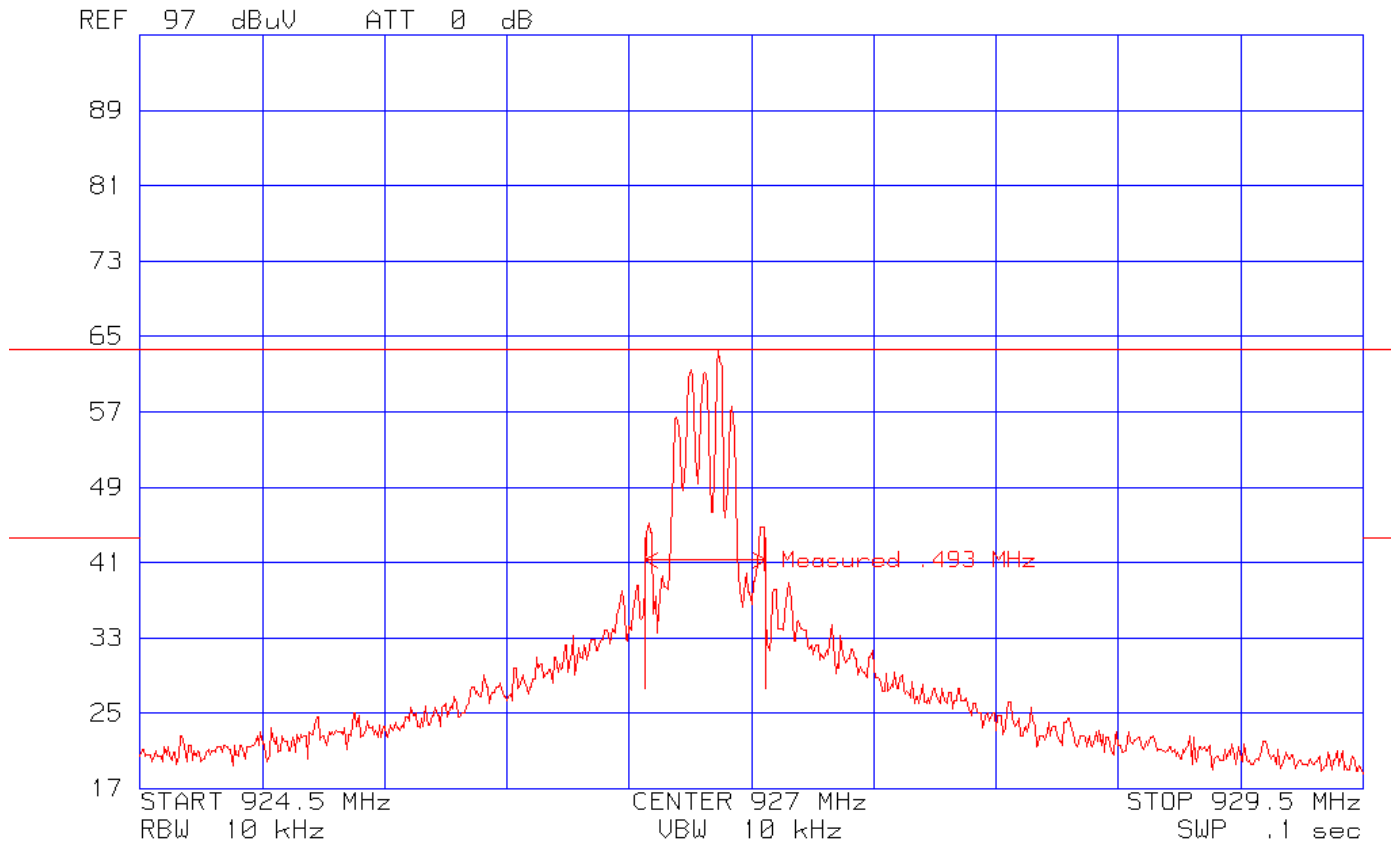


Figure 12 Occupied Bandwidth Graph (AC Powered – 927MHz)



Frequency (MHz)	OBW (MHz)	Fo + ½ OBW (MHz)	Results
903	0.491	903.2455	Complies
927	0.493	927.2465	Complies

Figure 13 Occupied Bandwidth Graph (Battery Powered – 903MHz)

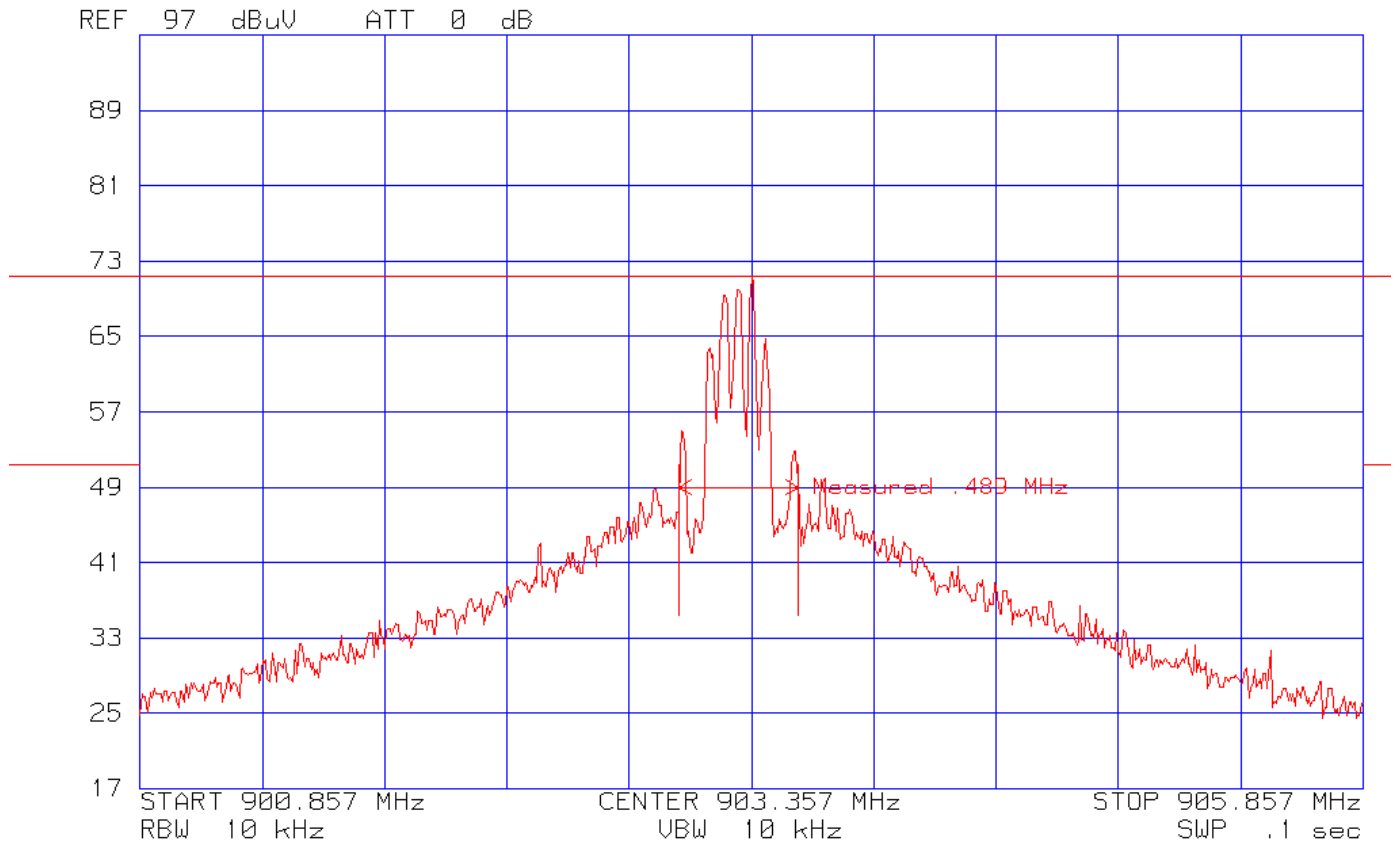
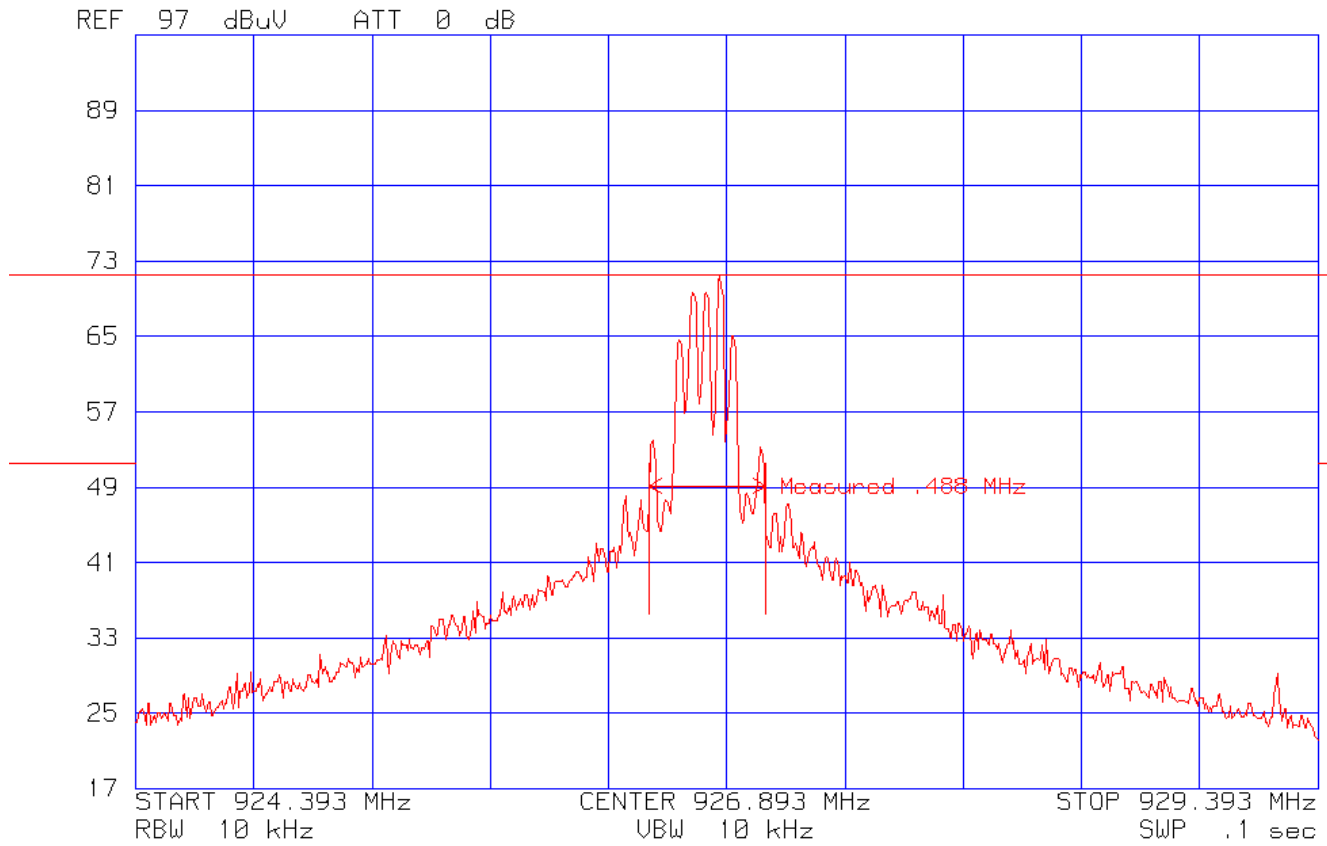


Figure 14 Occupied Bandwidth Graph (Battery Powered – 927MHz)



Frequency (MHz)	OBW (MHz)	Fo + ½ OBW (MHz)	Results
903	0.489	903.2445	Complies
927	0.488	927.244	Complies

4.3 Test [BD5]Conditions and Results – RADIATED EMISSIONS

Test Description	Measurements were made in a 10-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10-meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.		
Basic Standard			
UL LPG	80-EM-S0029		
	Frequency range	Measurement Point	
Fully configured sample scanned over the following frequency range	0.010MHz – 1GHz	(3 meter measurement distance)	
Fully configured sample scanned over the following frequency range	1GHz – 10GHz	(3 meter measurement distance)	
Limits			
Frequency (MHz)	Limit (dBµV/m)		
	Quasi-Peak	Average	
	General Emissions	Fundamental	Spurious / Unintentional
0.009 – 0.490	128.5 – 93.8	-	-
0.490 – 1.705	73.8 – 63	-	-
1.705 – 30	69.5	-	-
30 – 88	40	-	-
88 – 216	43.5	-	-
216-960	46	-	-
1000-10000	-	-	54
902-928	-	94	
Supplementary information: Spurious limits are only applied against products of the transmitter. All other emissions must meet the general limits.			

Table 22 Radiated Emissions EUT Configuration Settings

Power Interface Mode # (See Section 1.3.4)	EUT Configurations Mode # (See Section 1.6)	EUT Operation Mode # (See 1.5)
1	1	1
1	1	2
1	1	3
1	1	4

Supplementary information:
 Unintentional emissions checked to 5GHz.
 Intentional emissions: Since there are no products of the fundamental located below 30MHz, only one orientation and one channel was tested. For the range 30-10000MHz, both desktop and wall-mount orientations were tested but only Desktop AC power mode was fully scanned. All other modes were tested by selecting the frequencies generated during AC power mode since all emissions were found to be products of the transmitter.

Table 23 Radiated Emissions Test Equipment

Test Equipment Used			
Description	Manufacturer	Model	Identifier
60Hz-30MHz			
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
Active Loop Antenna	EMCO	6507	ME5A-288
Switch Driver	HP	11713A	ME7A-627
System Controller	Sunol Sciences	SC99V	44396
Camera Controller	Panasonic	WV-CU254	44395
RF Switch Box	UL	1	44398
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/ Pressure Meter	Cole Parmer	99760-00	4268
30-1000MHz			
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
Bicon Antenna	Schaffner	VBA6106A	43441
Log-P Antenna	Schaffner	UPA6109	44067
Switch Driver	HP	11713A	ME7A-627
System Controller	Sunol Sciences	SC99V	44396
Camera Controller	Panasonic	WV-CU254	44395
RF Switch Box	UL	1	44398
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/ Pressure Meter	Cole Parmer	99760-00	4268
Above 1GHz			
EMI Receiver	Rohde & Schwarz	ESIB26	ME5B-081
Horn Antenna	Electro-Metrics	RGA-180	ME5-565
Preamplifier (1 - 26GHz)	HP	8449B	ME5-914
Switch Driver	HP	11713A	ME7A-627
System Controller	Sunol Sciences	SC99V	44396
Camera Controller	Panasonic	WV-CU254	44395
RF Switch Box	UL	1	44398
Measurement Software	UL	Version 9.3	44740
Temp/Humidity/ Pressure Meter	Cole Parmer	99760-00	4268

Figure 20 Test setup for Radiated Emissions (Front and Rear Views – 9kHz-30MHz Transmit Mode)

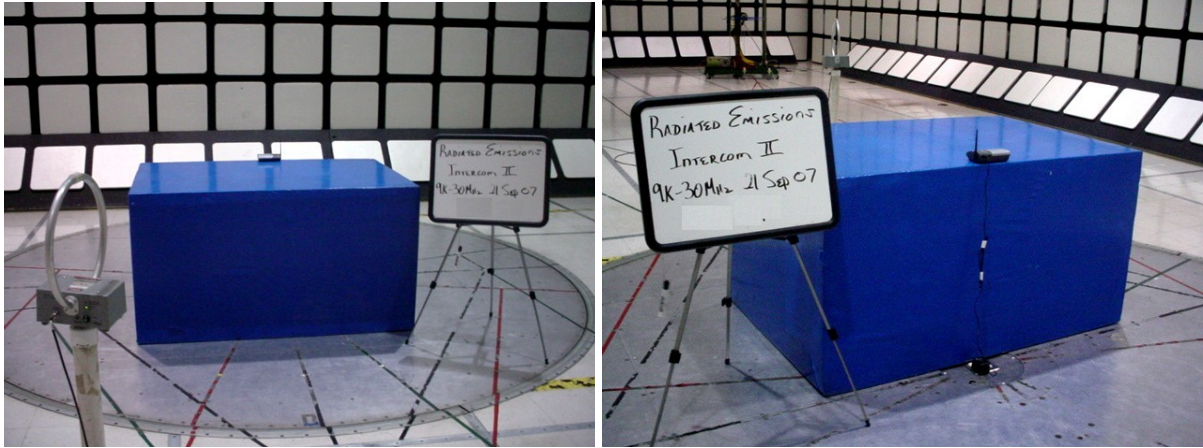


Figure 21 Test setup for Radiated Emissions (Front and Rear Views – 30-1000MHz Transmit or Receive Mode)

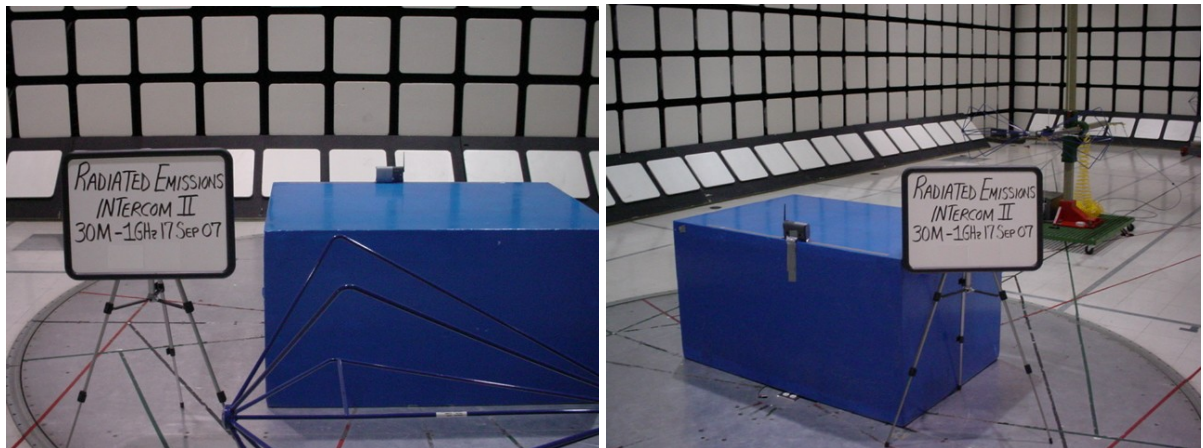


Figure 22 Test setup for Radiated Emissions (Front and Rear Views –1-10GHz Transmit Mode)

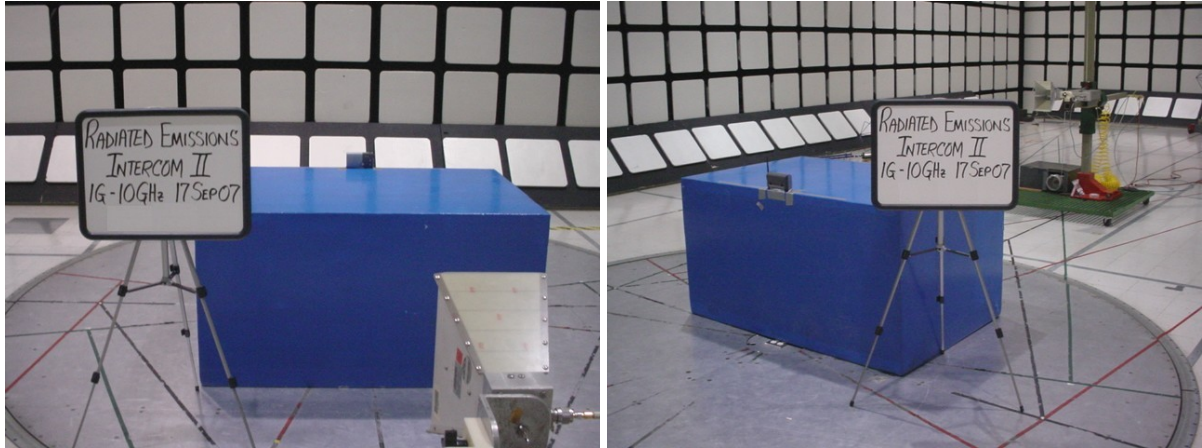


Figure 23 Test setup for Radiated Emissions (Front and Rear Views – 1-5GHz Receive Mode)

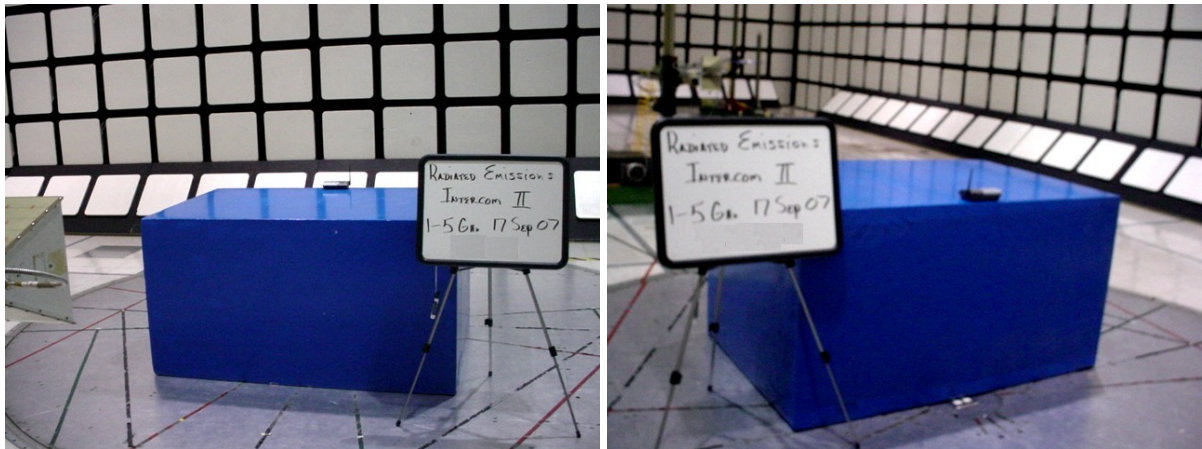


Figure 24 Test setup for Radiated Emissions (Front and Rear Views –1-10GHz Wall Mount Orientation Transmit Mode)

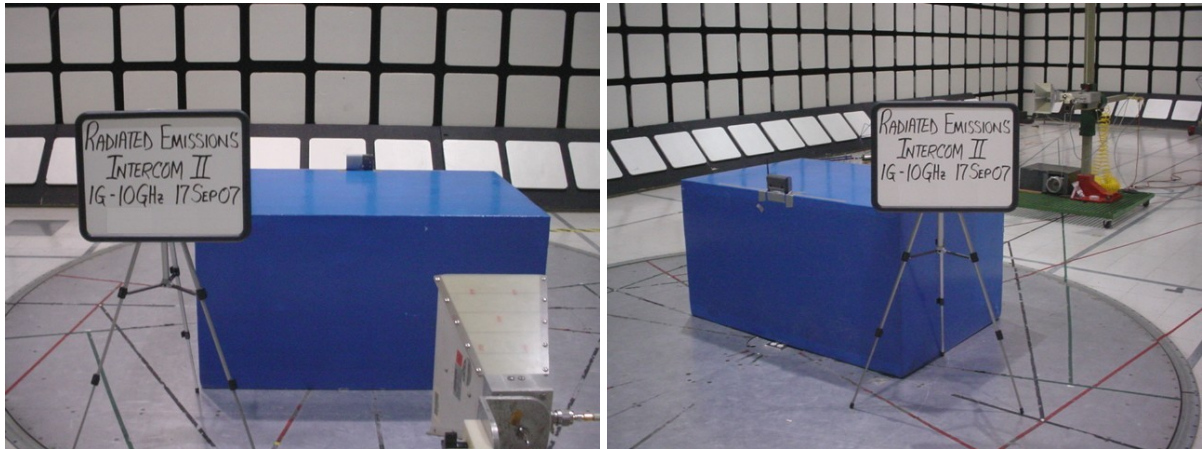


Figure 25 Radiated Emissions Graph (RCV Mode - AC Powered)

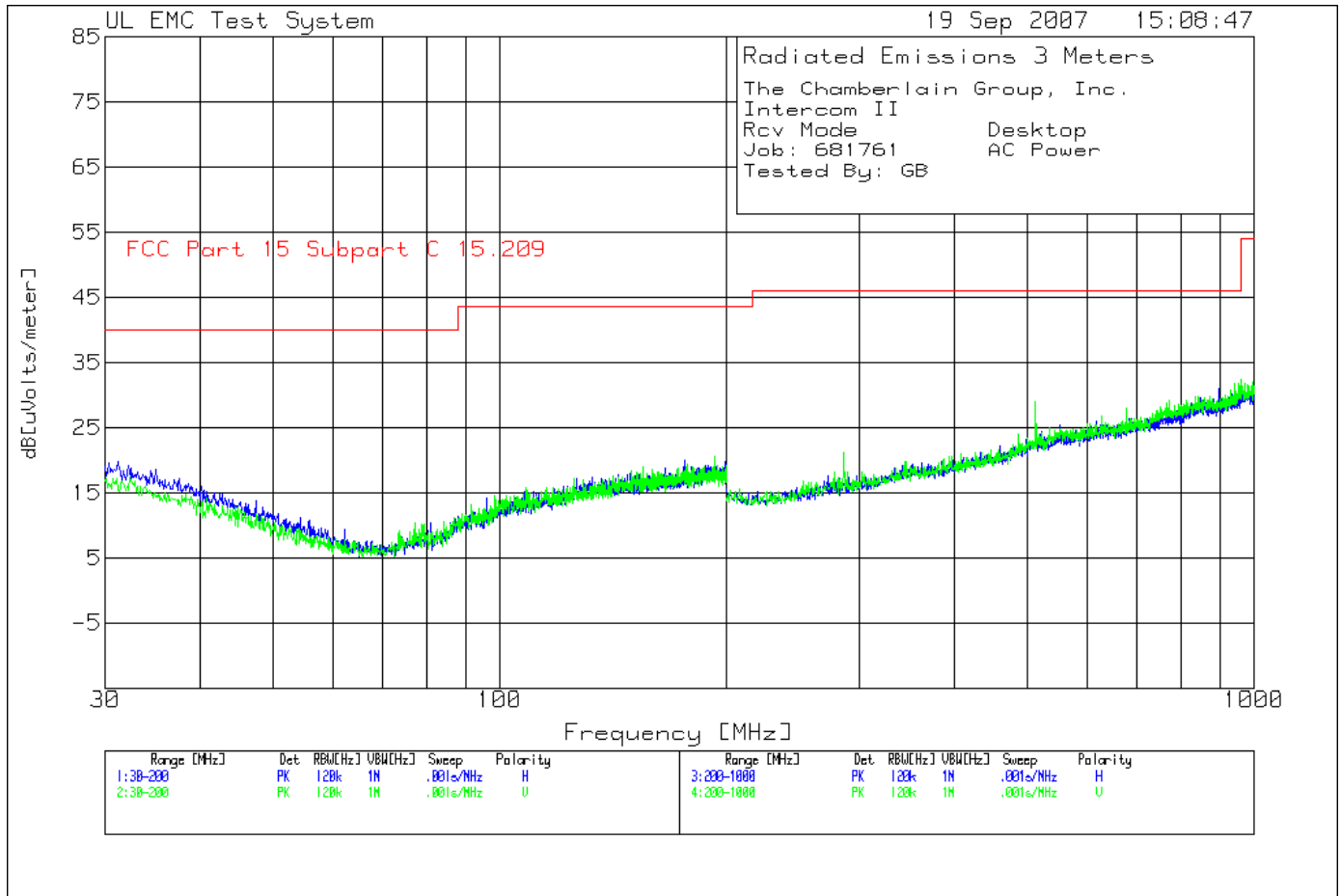


Table 24 Radiated Emissions Data Points

The Chamberlain Group, Inc.
 Intercom II
 Rcv Mode Desktop
 Job: 681761 AC Power
 Tested By: GB

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 30 - 200MHz -----											
1	47.465	2.51 pk	-.2	11.5	13.81	40	-	-	-	-	-
	Azimuth:196	Height:101	Horz	Margin [dB]		-26.19	-	-	-	-	-
2	126.3976	3.53 pk	0	13.6	17.13	43.5	-	-	-	-	-
	Azimuth:246	Height:101	Horz	Margin [dB]		-26.37	-	-	-	-	-
3	175.5037	4.73 pk	.2	15.1	20.03	43.5	-	-	-	-	-
	Azimuth:10	Height:250	Horz	Margin [dB]		-23.47	-	-	-	-	-
Vertical 30 - 200MHz -----											
4	192.8552	4.11 pk	.2	16.2	20.51	43.5	-	-	-	-	-
	Azimuth:16	Height:101	Vert	Margin [dB]		-22.99	-	-	-	-	-
Vertical 200 - 1000MHz -----											
5	285.9239	6.87 pk	.4	13.8	21.07	46	-	-	-	-	-
	Azimuth:107	Height:300	Vert	Margin [dB]		-24.93	-	-	-	-	-
6	513.2755	9.35 pk	.9	18.7	28.95	46	-	-	-	-	-
	Azimuth:217	Height:300	Vert	Margin [dB]		-17.05	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector

Figure 26 Radiated Emissions Graph (RCV Mode - AC Powered)

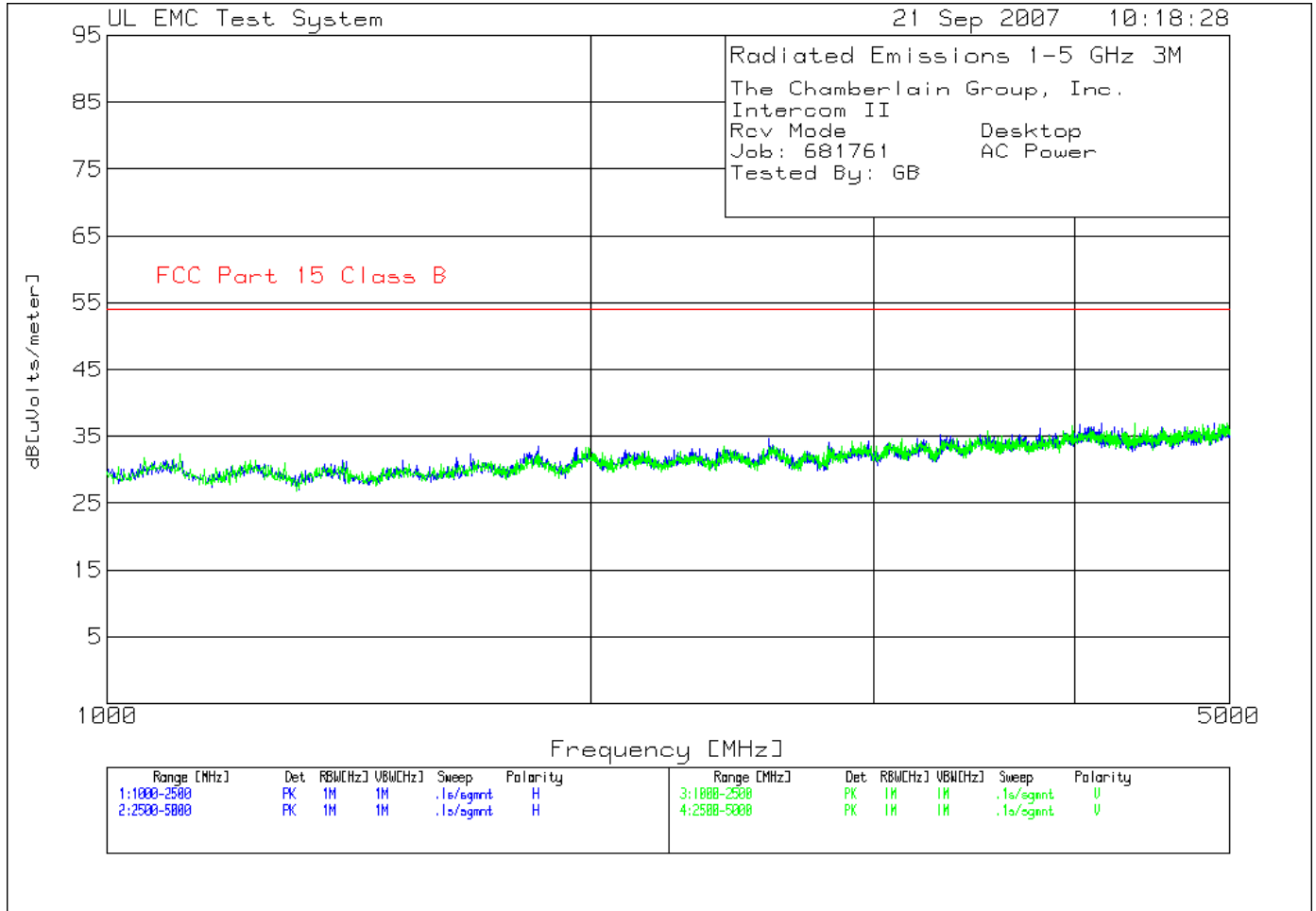


Table 25 Radiated Emissions Data Points

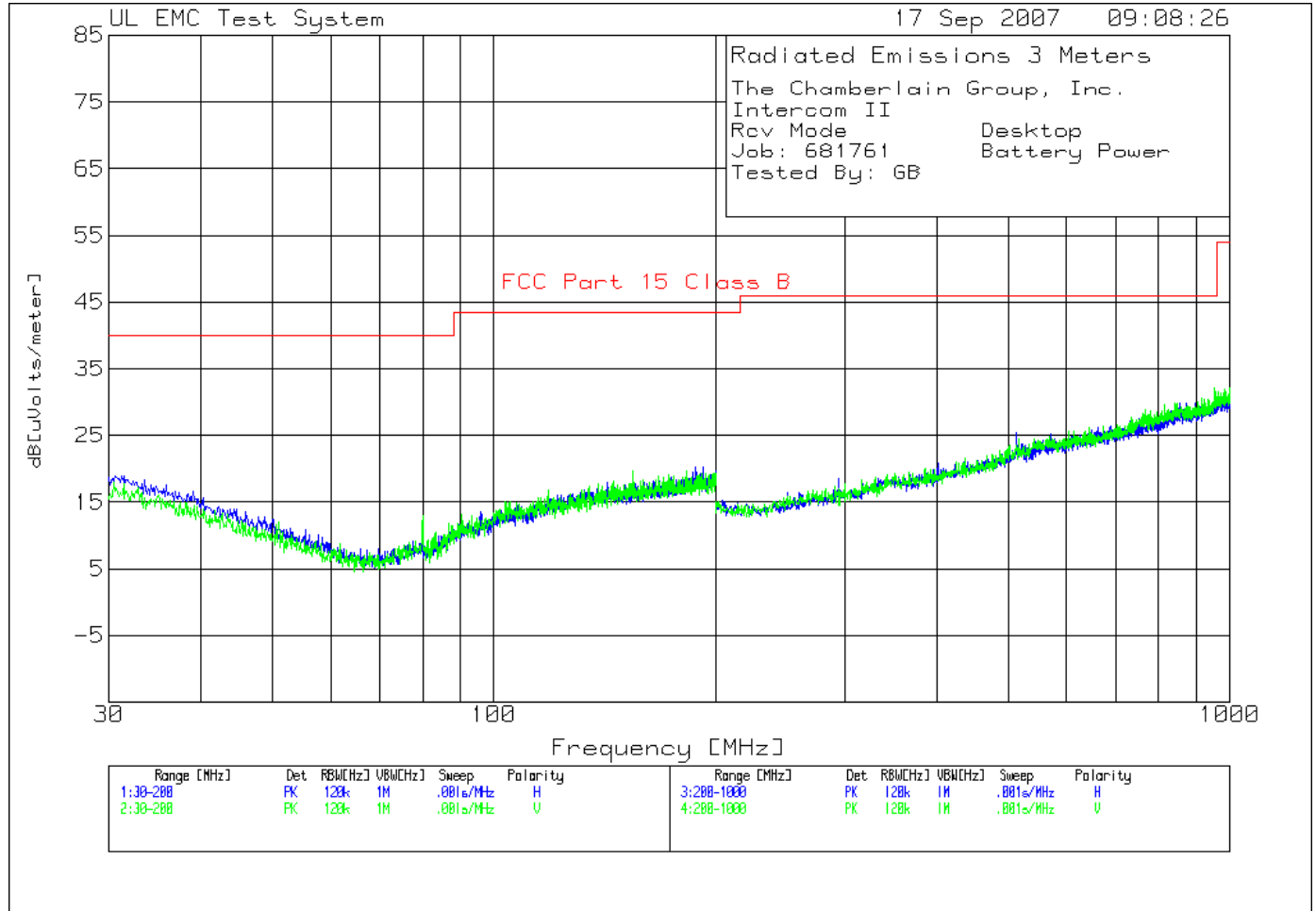
The Chamberlain Group, Inc.
 Intercom II
 Rcv Mode Desktop
 Job: 681761 AC Power
 Tested By: GB

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 1000 - 2500MHz -----											
2	1854.354	40.09 pk	-33.6	27.1	33.59	54	-	-	-	-	-
	Azimuth:164	Height:101	Horz	Margin [dB]		-20.41	-	-	-	-	-
3	1959.459	39.32 pk	-33.5	27.6	33.42	54	-	-	-	-	-
	Azimuth:109	Height:200	Horz	Margin [dB]		-20.58	-	-	-	-	-
Horizontal 2500 - 5000MHz -----											
4	2583.389	38.41 pk	-32.8	29.1	34.71	54	-	-	-	-	-
	Azimuth:164	Height:200	Horz	Margin [dB]		-19.29	-	-	-	-	-
5	3805.871	35.24 pk	-31.2	32.2	36.24	54	-	-	-	-	-
	Azimuth:196	Height:200	Horz	Margin [dB]		-17.76	-	-	-	-	-
6	4156.104	35.1 pk	-30.5	32.4	37	54	-	-	-	-	-
	Azimuth:141	Height:101	Horz	Margin [dB]		-17	-	-	-	-	-
Vertical 1000 - 2500MHz -----											
1	1109.61	42 pk	-35	25.3	32.3	54	-	-	-	-	-
	Azimuth:218	Height:101	Vert	Margin [dB]		-21.7	-	-	-	-	-

LIMIT 1: FCC Part 15 Class B

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector

Figure 27 Radiated Emissions Graph (RCV Mode - DC Powered)



Job Number: 771347 File Number: MC3181 Page 47 of 83
 Model Number: Intercom II
 Client Name: Chamberlain Group Inc.
 FCC ID: JLFTRX2

Table 26 Radiated Emissions Data Points

The Chamberlain Group, Inc.
 Intercom II

Rcv Mode Desktop
 Job: 681761 Battery Power

Tested By: GB

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 1000 - 2500MHz -----											
3	1822.823	42.35 pk	-33.7	26.9	35.55	54	-	-	-	-	-
	Azimuth:305	Height:101	Horz	Margin [dB]		-18.45	-	-	-	-	-
4	1965.465	39.7 pk	-33.5	27.6	33.8	54	-	-	-	-	-
	Azimuth:32	Height:199	Horz	Margin [dB]		-20.2	-	-	-	-	-
Horizontal 2500 - 5000MHz -----											
5	2606.738	37.67 pk	-32.7	29.2	34.17	54	-	-	-	-	-
	Azimuth:110	Height:200	Horz	Margin [dB]		-19.83	-	-	-	-	-
6	4082.722	34.15 pk	-30.4	32.5	36.25	54	-	-	-	-	-
	Azimuth:31	Height:101	Horz	Margin [dB]		-17.75	-	-	-	-	-
Vertical 1000 - 2500MHz -----											
1	1079.58	41.87 pk	-34.9	25.3	32.27	54	-	-	-	-	-
	Azimuth:358	Height:200	Vert	Margin [dB]		-21.73	-	-	-	-	-
2	1552.553	41.33 pk	-34	25.6	32.93	54	-	-	-	-	-
	Azimuth:6	Height:200	Vert	Margin [dB]		-21.07	-	-	-	-	-

LIMIT 1: FCC Part 15 Class B

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector

Figure 28 Radiated Emissions Graph (RCV Mode - DC Powered)

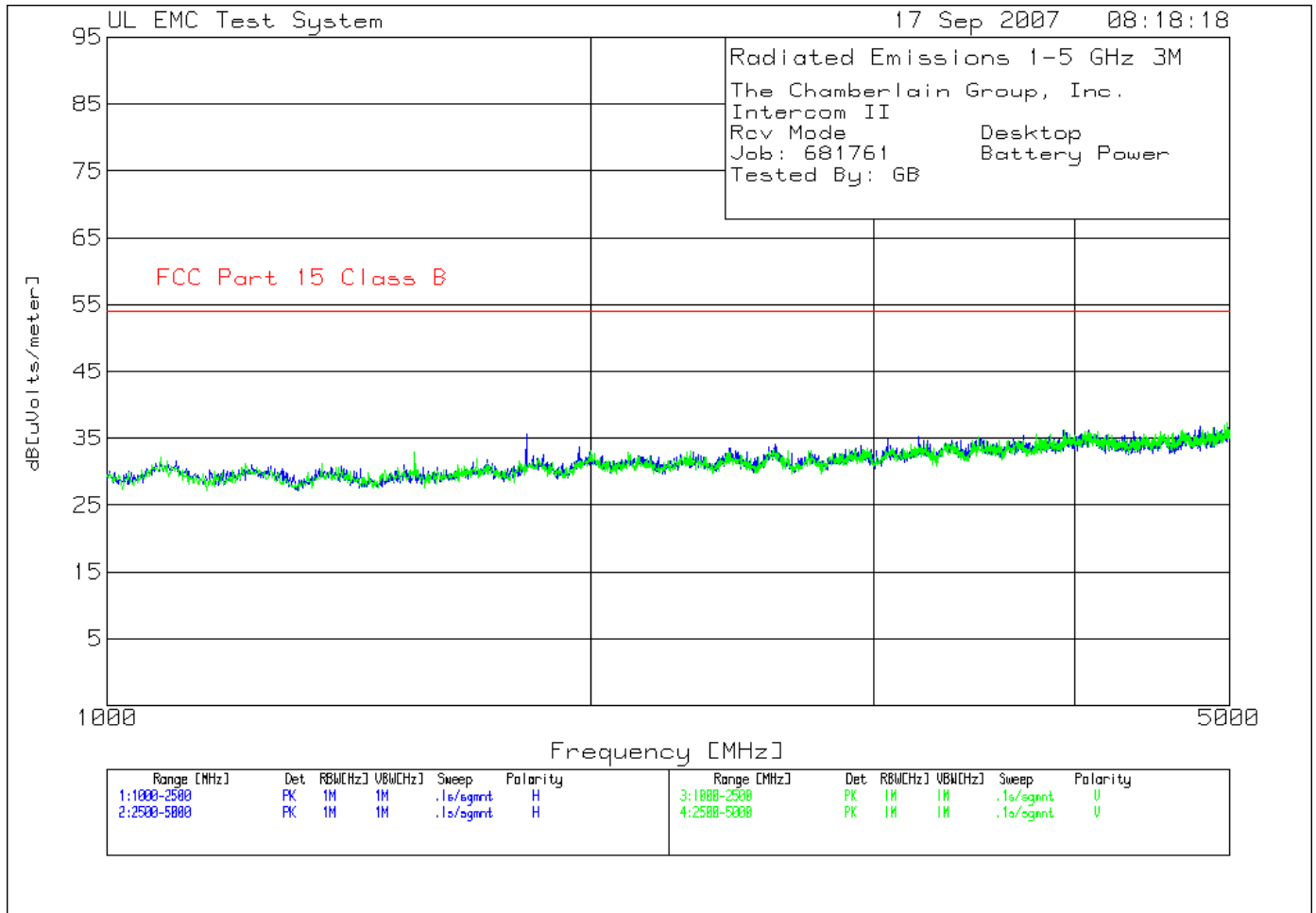


Table 27 Radiated Emissions Data Points

The Chamberlain Group, Inc.

Intercom II

Rcv Mode Desktop

Job: 681761 Battery Power

Tested By: GB

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6

Horizontal 30 - 200MHz -----											
1	31.1341	1.14 pk	-.4	18.2	18.94	40	-	-	-	-	-
	Azimuth:4	Height:400	Horz	Margin [dB]		-21.06	-	-	-	-	-
4	187.9787	4.08 pk	.2	15.9	20.18	43.5	-	-	-	-	-
	Azimuth:109	Height:400	Horz	Margin [dB]		-23.32	-	-	-	-	-

Vertical 30 - 200MHz -----											
2	80.0133	5.31 pk	-.1	7.7	12.91	40	-	-	-	-	-
	Azimuth:358	Height:101	Vert	Margin [dB]		-27.09	-	-	-	-	-
3	154.6364	3.94 pk	.1	15.6	19.64	43.5	-	-	-	-	-
	Azimuth:355	Height:101	Vert	Margin [dB]		-23.86	-	-	-	-	-

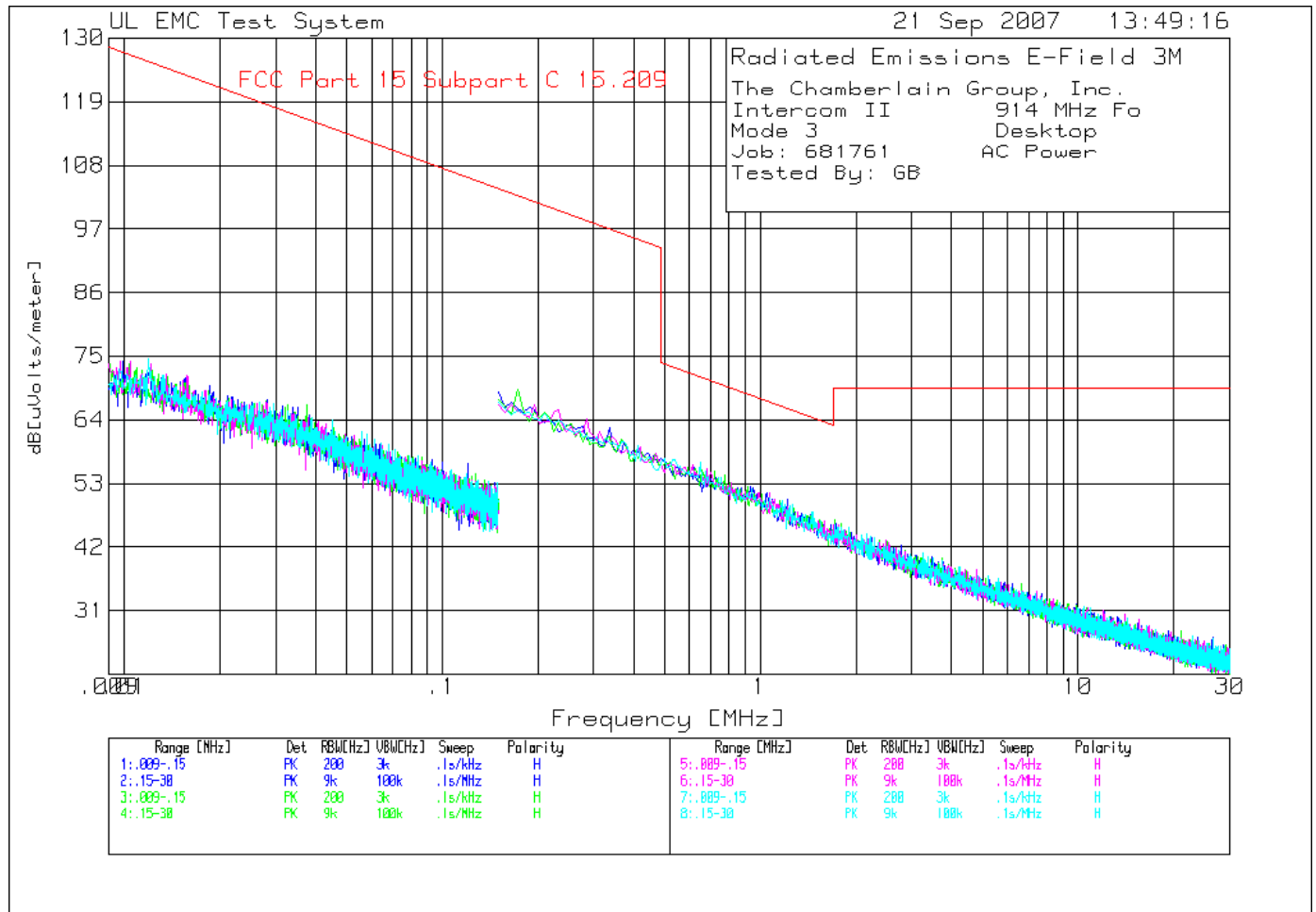
Horizontal 200 - 1000MHz -----											
5	513.2755	6 pk	.9	18.5	25.4	46	-	-	-	-	-
	Azimuth:264	Height:399	Horz	Margin [dB]		-20.6	-	-	-	-	-

Vertical 200 - 1000MHz -----											
6	953.0354	5.91 pk	1.7	24.5	32.11	46	-	-	-	-	-
	Azimuth:154	Height:101	Vert	Margin [dB]		-13.89	-	-	-	-	-

LIMIT 1: FCC Part 15 Class B

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector

Figure 29 Radiated Emissions Graph (914MHz - AC Powered)



Since there are no products of the fundamental located below 30MHz, only one orientation and one channel was tested.

Table 28 Radiated Emissions Data Points

The Chamberlain Group, Inc.
 Intercom II 914 MHz Fo
 Mode 3 Desktop
 Job: 681761 AC Power
 Tested By: GB

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6

0°	.009 - .15MHz	-----									
3	.12089	40.33 pk	.1	15.9	56.33	105.9	-	-	-	-	-
	Azimuth:61	Height:100	Horz	Margin [dB]		-49.57	-	-	-	-	-

0°	.15 - 30MHz	-----									
6	.33661	46.88 pk	.1	15.6	62.58	97.1	-	-	-	-	-
	Azimuth:1	Height:100	Horz	Margin [dB]		-34.52	-	-	-	-	-

45°	.009 - .15MHz	-----									
2	.03766	46.4 pk	.1	20.1	66.6	116.1	-	-	-	-	-
	Azimuth:354	Height:120	Horz	Margin [dB]		-49.5	-	-	-	-	-

45°	.15 - 30MHz	-----									
4	.17239	53.36 pk	.1	15.7	69.16	102.9	-	-	-	-	-
	Azimuth:180	Height:120	Horz	Margin [dB]		-33.74	-	-	-	-	-

90°	.15 - 30MHz	-----									
5	.28436	48.55 pk	.1	15.6	64.25	98.5	-	-	-	-	-
	Azimuth:335	Height:139	Horz	Margin [dB]		-34.25	-	-	-	-	-

135°	.009 - .15MHz	-----									
1	.01193	46.43 pk	0	28.1	74.53	126.1	-	-	-	-	-
	Azimuth:285	Height:160	Horz	Margin [dB]		-51.57	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - denotes average log detection
 ave - denotes average detection
 tm - Trace Math Result

Figure 30 Radiated Emissions Graph (903MHz)

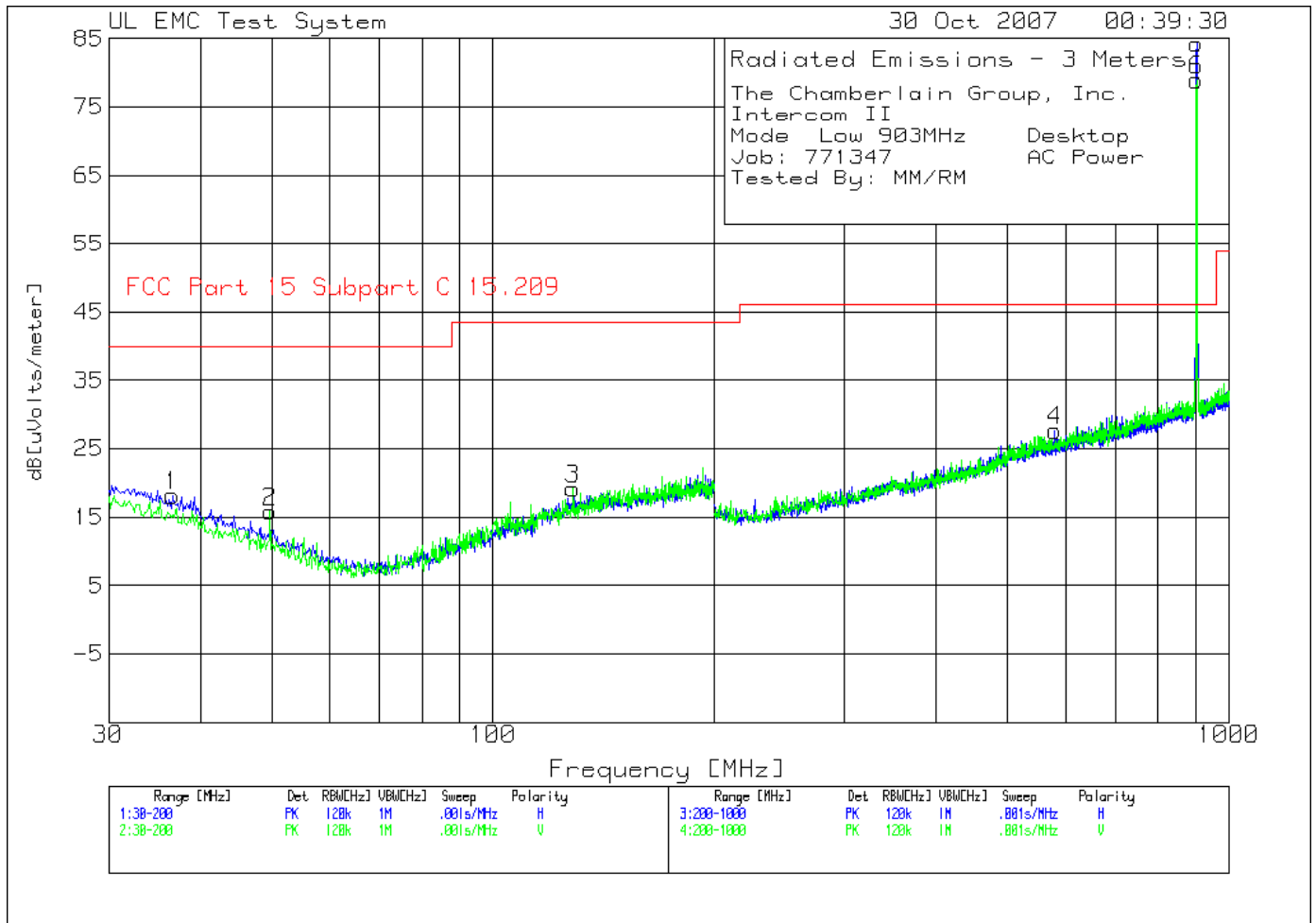


Table 29 Radiated Emissions Data Points (903MHz AC Power)

The Chamberlain Group, Inc.
 Intercom II
 Mode Low 903MHz Desktop
 Job: 771347 AC Power
 Tested By: MM/RM

No.	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 30 - 200MHz -----											
1	36.6366	1.96 pk	.2	16	18.16	40	-	-	-	-	-
	Azimuth:209	Height:101	Horz	Margin [dB]		-21.84	-	-	-	-	-
Vertical 30 - 200MHz -----											
2	49.7397	5.52 pk	.4	9.9	15.82	40	-	-	-	-	-
	Azimuth:134	Height:100	Vert	Margin [dB]		-24.18	-	-	-	-	-
3	128.3584	4.27 pk	.8	14.1	19.17	43.5	-	-	-	-	-
	Azimuth:348	Height:100	Vert	Margin [dB]		-24.33	-	-	-	-	-
Horizontal 200 - 1000MHz -----											
4	580.1901	5.36 pk	2.6	19.7	27.66	46	-	-	-	-	-
	Azimuth:60	Height:200	Horz	Margin [dB]		-18.34	-	-	-	-	-
5	903.5518	57.59 pk	3.5	23.2	84.29	46	-	-	-	-	-
	Azimuth:234	Height:100	Horz	Margin [dB]		38.29	-	-	-	-	-
Vertical 200 - 1000MHz -----											
6	903.5518	51.83 pk	3.5	23.6	78.93	46	-	-	-	-	-
	Azimuth:275	Height:200	Vert	Margin [dB]		32.93	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector

Test	Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 200 - 1000MHz -----											
	903.3427	57.85 qp	3.5	23.2	84.55	94	-	-	-	-	-
	Azimuth:194	Height:103	Horz	Margin [dB]		-9.45					
Vertical 200 - 1000MHz -----											
	903.3397	53.81 qp	3.5	23.6	80.91	94	-	-	-	-	-
	Azimuth:282	Height:228	Vert	Margin [dB]		-13.09					

LIMIT 1: FCC Part 15 Subpart C 15.249

qp - Quasi-Peak detector

Job Number: 771347 File Number: MC3181 Page 54 of 83
 Model Number: Intercom II
 Client Name: Chamberlain Group Inc.
 FCC ID: JLFTRX2

The Chamberlain Group, Inc.
 Intercom II
 Mode Low 903MHz Wall Mount
 Job: 771347 AC Power
 Tested By: MM/RM

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal 200 - 1000MHz										
903.3126	57.45 qp	3.5	23.2	84.15	94	-	-	-	-	-
Azimuth: 191 Height:176 Horz					Margin [dB]:	-9.85	-	-	-	-
Vertical 200 - 1000MHz										
903.3226	55.62 qp	3.5	23.6	82.72	94	-	-	-	-	-
Azimuth: 212 Height:129 Vert					Margin [dB]:	-11.28	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.249

qp - Quasi-Peak detector

Table 30 Radiated Emissions Data Points (903MHz Battery Powered)

The Chamberlain Group, Inc.
 Intercom II
 Mode Low 903Mhz Desktop
 Job:771347 Battery Power
 Tested By: BD

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 30 - 200MHz -----											
1	35.956	1.32 pk	.2	16.2	17.72	40	-	-	-	-	-
		Azimuth:61	Height:100	Horz	Margin [dB]	-22.28	-	-	-	-	-
2	191.4915	4.35 pk	1.1	16	21.45	43.5	-	-	-	-	-
		Azimuth:172	Height:100	Horz	Margin [dB]	-22.05	-	-	-	-	-
Vertical 30 - 200MHz -----											
3	71.8619	6.65 pk	.5	6.1	13.25	40	-	-	-	-	-
		Azimuth:173	Height:101	Vert	Margin [dB]	-26.75	-	-	-	-	-
4	165.7958	3.93 pk	1	15.6	20.53	43.5	-	-	-	-	-
		Azimuth:358	Height:101	Vert	Margin [dB]	-22.97	-	-	-	-	-
Horizontal 200 - 1000MHz -----											
5	903.5518	45.57 pk	3.5	23.2	72.27	46	-	-	-	-	-
		Azimuth:231	Height:101	Horz	Margin [dB]	26.27	-	-	-	-	-
6	903.5518	45.57 pk	3.5	23.2	72.27	46	-	-	-	-	-
		Azimuth:231	Height:101	Horz	Margin [dB]	26.27	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

pk - Peak detector
 qp - Quasi-Peak detector

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 200 - 1000MHz										
903.3126	58.39 qp	3.5	23.2	85.09	94	-	-	-	-	-
	Azimuth: 223	Height:107	Horz	Margin [dB]:	-8.91	-	-	-	-	-
Vertical 200 - 1000MHz										
903.3186	54.51 qp	3.5	23.6	81.61	94	-	-	-	-	-
	Azimuth: 296	Height:214	Vert	Margin [dB]:	-12.39	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.249

qp - Quasi-Peak detector

Job Number: 771347 File Number: MC3181 Page 56 of 83
 Model Number: Intercom II
 Client Name: Chamberlain Group Inc.
 FCC ID: JLFTRX2

The Chamberlain Group, Inc.
 Intercom II
 Mode Low 903Mhz Wall Mount
 Job:771347 Battery Power
 Tested By: BD

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal 200 - 1000MHz										
903.3126	59.27 qp	3.5	23.2	85.97	94	-	-	-	-	-
Azimuth: 204		Height:175		Horz		Margin [dB]:		-8.03		
Vertical 200 - 1000MHz										
903.3186	55.43 qp	3.5	23.6	82.53	94	-	-	-	-	-
Azimuth: 279		Height:186		Vert		Margin [dB]:		-11.47		

LIMIT 1: FCC Part 15 Subpart C 15.249

qp - Quasi-Peak detector

Figure 31 Radiated Emissions Graph (903MHz)

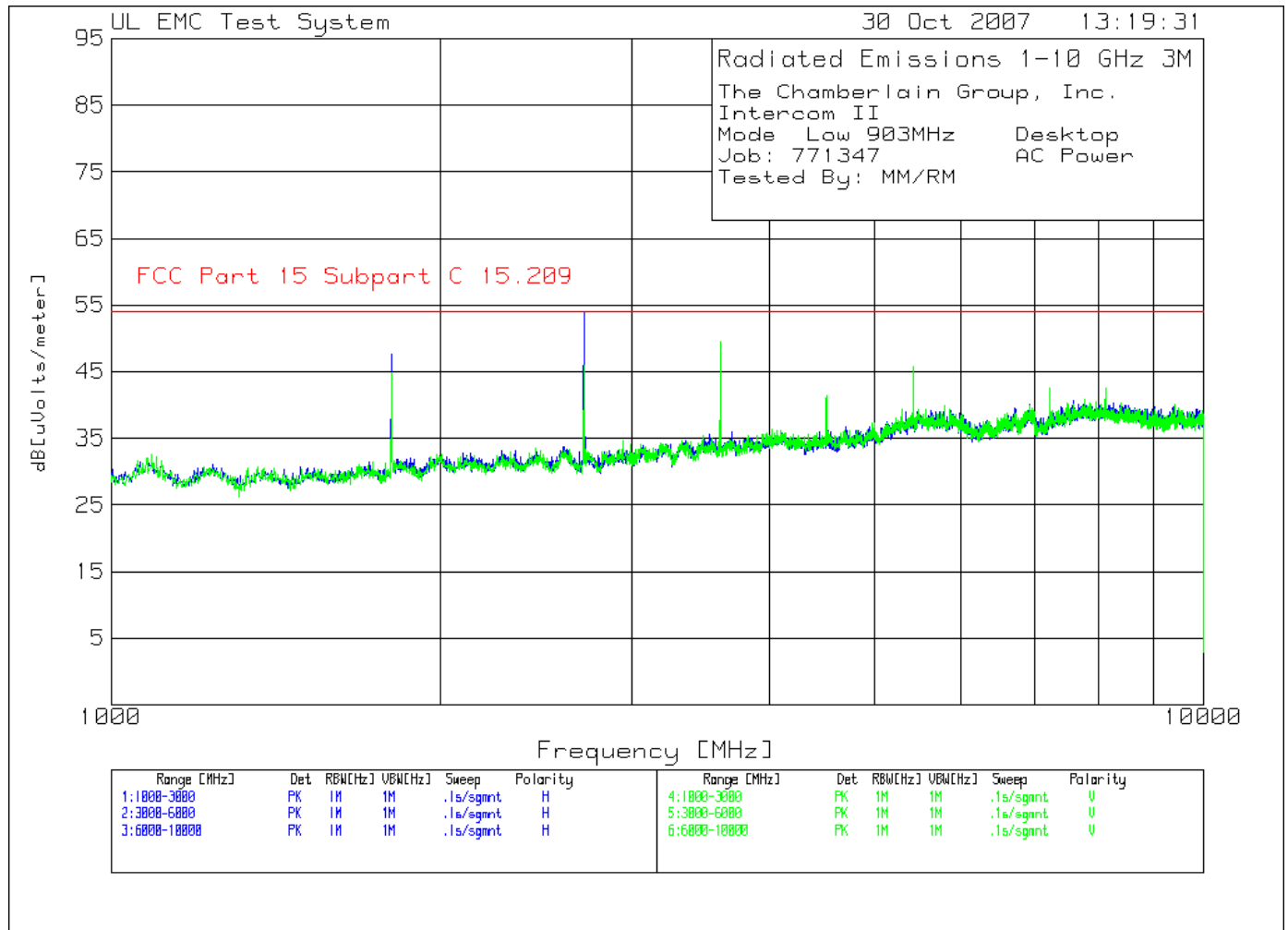


Table 31 Radiated Emissions Data Points (903MHz AC Power)

The Chamberlain Group, Inc.
 Intercom II
 Mode Low 903MHz Desktop
 Job: 771347 AC Power
 Tested By: MM/RM

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 1000 - 3000MHz										
1806.6669	51.8 ave	-33.7	26.8	44.9	54	-	-	-	-	-
Azimuth: 26		Height:122		Horz		Margin [dB]: -9.1		-	-	-
2709.6158	53.42 ave	-32.6	29.4	50.22	54	-	-	-	-	-
Azimuth: 275		Height:143		Horz		Margin [dB]: -3.78		-	-	-
Horizontal 3000 - 6000MHz										
3613.0012	44.58 ave	-31.2	31.8	45.18	54	-	-	-	-	-
Azimuth: 20		Height:179		Horz		Margin [dB]: -8.82		-	-	-
4516.6242	33.4 ave	-30.2	32.3	35.5	54	-	-	-	-	-
Azimuth: 340		Height:177		Horz		Margin [dB]: -18.5		-	-	-
5419.6701	35.14 ave	-29.8	34.1	39.44	54	-	-	-	-	-
Azimuth: 335		Height:198		Horz		Margin [dB]: -14.56		-	-	-
Vertical 1000 - 3000MHz										
1806.5244	49.42 ave	-33.7	26.8	42.52	54	-	-	-	-	-
Azimuth: 247		Height:102		Vert		Margin [dB]: -11.48		-	-	-
2709.6128	46.08 ave	-32.6	29.4	42.88	54	-	-	-	-	-
Azimuth: 105		Height:196		Vert		Margin [dB]: -11.12		-	-	-
Vertical 3000 - 6000MHz										
3612.9469	46.53 ave	-31.2	31.6	46.93	54	-	-	-	-	-
Azimuth: 295		Height:120		Vert		Margin [dB]: -7.07		-	-	-
4516.3437	33.4 ave	-30.2	32.6	35.8	54	-	-	-	-	-
Azimuth: 280		Height:188		Vert		Margin [dB]: -18.2		-	-	-
5419.4359	27.58 ave	-29.8	34.2	31.98	54	-	-	-	-	-
Azimuth: 191		Height:184		Vert		Margin [dB]: -22.02		-	-	-
Vertical 6000 - 10000MHz										
7226.6351	26.66 ave	-27.5	36.1	35.26	54	-	-	-	-	-
Azimuth: 225		Height:103		Vert		Margin [dB]: -18.74		-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

pk - Peak detector
 ave - Average detector

Job Number: 771347 File Number: MC3181 Page 59 of 83
 Model Number: Intercom II
 Client Name: Chamberlain Group Inc.
 FCC ID: JLFTRX2

The Chamberlain Group, Inc.
 Intercom II
 Mode Low 903MHz Wall Mount
 Job: 771347 AC Power
 Tested By: BD

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]	[dB]						
=====										
Horizontal 1000 - 3000MHz										
1806.6467	53.71 ave	-33.7	26.8	46.81	54	-	-	-	-	-
Azimuth: 318 Height:121 Horz					Margin [dB]:	-7.19	-	-	-	-
2709.7861	43.18 ave	-32.6	29.4	39.98	54	-	-	-	-	-
Azimuth: 354 Height:179 Horz					Margin [dB]:	-14.02	-	-	-	-
Horizontal 3000 - 6000MHz										
3613.2417	42.5 ave	-31.2	31.8	43.1	54	-	-	-	-	-
Azimuth: 360 Height:101 Horz					Margin [dB]:	-10.9	-	-	-	-
4516.5401	28.36 ave	-30.2	32.3	30.46	54	-	-	-	-	-
Azimuth: 246 Height:196 Horz					Margin [dB]:	-23.54	-	-	-	-
5419.9787	36.62 ave	-29.8	34.1	40.92	54	-	-	-	-	-
Azimuth: 325 Height:195 Horz					Margin [dB]:	-13.08	-	-	-	-
Vertical 1000 - 3000MHz										
1806.5731	52.63 ave	-33.7	26.8	45.73	54	-	-	-	-	-
Azimuth: 60 Height:102 Vert					Margin [dB]:	-8.27	-	-	-	-
2709.7992	45.64 ave	-32.6	29.4	42.44	54	-	-	-	-	-
Azimuth: 87 Height:115 Vert					Margin [dB]:	-11.56	-	-	-	-
Vertical 3000 - 6000MHz										
3613.1244	43.67 ave	-31.2	31.6	44.07	54	-	-	-	-	-
Azimuth: 159 Height:172 Vert					Margin [dB]:	-9.93	-	-	-	-
4516.8507	24.52 ave	-30.2	32.6	26.92	54	-	-	-	-	-
Azimuth: 14 Height:115 Vert					Margin [dB]:	-27.08	-	-	-	-
5419.9687	34.21 ave	-29.8	34.2	38.61	54	-	-	-	-	-
Azimuth: 328 Height:171 Vert					Margin [dB]:	-15.39	-	-	-	-
Vertical 6000 - 10000MHz										
7226.132	23.43 ave	-27.5	36.1	32.03	54	-	-	-	-	-
Azimuth: 250 Height:176 Vert					Margin [dB]:	-21.97	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

pk - Peak detector
 ave - Average detector

Table 32 Radiated Emissions Data Points (903MHz Battery Powered)

The Chamberlain Group, Inc.
 Intercom II
 Mode Low 903MHz Desktop
 Job: 771347 Battery Power
 Tested By: BD

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1 [dB]	2	3	4	5	6
Horizontal 1000 - 3000MHz										
1806.5515	51.78 ave	-33.7	26.8	44.88	54	-	-	-	-	-
Azimuth: 29		Height:200	Horz	Margin [dB]:	-9.12	-	-	-	-	-
2709.8282	43.9 ave	-32.6	29.4	40.7	54	-	-	-	-	-
Azimuth: 88		Height:198	Horz	Margin [dB]:	-13.3	-	-	-	-	-
Horizontal 3000 - 6000MHz										
3613.277	38.6 ave	-31.2	31.8	39.2	54	-	-	-	-	-
Azimuth: 348		Height:146	Horz	Margin [dB]:	-14.8	-	-	-	-	-
4516.52	27.9 ave	-30.2	32.3	30	54	-	-	-	-	-
Azimuth: 352		Height:178	Horz	Margin [dB]:	-24	-	-	-	-	-
5419.7132	30.59 ave	-29.8	34.1	34.89	54	-	-	-	-	-
Azimuth: 244		Height:121	Horz	Margin [dB]:	-19.11	-	-	-	-	-
Vertical 1000 - 3000MHz										
1806.5445	50.61 ave	-33.7	26.8	43.71	54	-	-	-	-	-
Azimuth: 244		Height:162	Vert	Margin [dB]:	-10.29	-	-	-	-	-
1806.5445	50.61 ave	-33.7	26.8	43.71	54	-	-	-	-	-
Azimuth: 244		Height:162	Vert	Margin [dB]:	-10.29	-	-	-	-	-
2709.5787	41.62 ave	-32.6	29.4	38.42	54	-	-	-	-	-
Azimuth: 264		Height:156	Vert	Margin [dB]:	-15.58	-	-	-	-	-
Vertical 3000 - 6000MHz										
3613.2296	42.56 ave	-31.2	31.6	42.96	54	-	-	-	-	-
Azimuth: 291		Height:200	Vert	Margin [dB]:	-11.04	-	-	-	-	-
4516.5401	28.26 ave	-30.2	32.6	30.66	54	-	-	-	-	-
Azimuth: 319		Height:196	Vert	Margin [dB]:	-23.34	-	-	-	-	-
5419.3765	37.35 ave	-29.8	34.2	41.75	54	-	-	-	-	-
Azimuth: 275		Height:191	Vert	Margin [dB]:	-12.25	-	-	-	-	-
Vertical 6000 - 10000MHz										
7226.2924	26.06 ave	-27.5	36.1	34.66	54	-	-	-	-	-
Azimuth: 250		Height:170	Vert	Margin [dB]:	-19.34	-	-	-	-	-
8129.7033	25.27 ave	-27.4	37.1	34.97	54	-	-	-	-	-
Azimuth: 302		Height:168	Vert	Margin [dB]:	-19.03	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

ave - Average detector

Job Number: 771347 File Number: MC3181 Page 61 of 83
 Model Number: Intercom II
 Client Name: Chamberlain Group Inc.
 FCC ID: JLFTRX2

The Chamberlain Group, Inc.
 Intercom II
 Mode Low 903MHz Wall Mount
 Job: 771347 Battery Power
 Tested By: BD

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal 1000 - 3000MHz										
1806.6567	52.87 ave	-33.7	26.8	45.97	54	-	-	-	-	-
Azimuth: 319 Height:117 Horz					Margin [dB]:	-8.03	-	-	-	-
2709.6639	43.38 ave	-32.6	29.4	40.18	54	-	-	-	-	-
Azimuth: 353 Height:130 Horz					Margin [dB]:	-13.82	-	-	-	-
Horizontal 3000 - 6000MHz										
3613.1194	44.88 ave	-31.2	31.8	45.48	54	-	-	-	-	-
Azimuth: 346 Height:173 Horz					Margin [dB]:	-8.52	-	-	-	-
4516.5952	30.2 ave	-30.2	32.3	32.3	54	-	-	-	-	-
Azimuth: 334 Height:196 Horz					Margin [dB]:	-21.7	-	-	-	-
5419.8435	35.62 ave	-29.8	34.1	39.92	54	-	-	-	-	-
Azimuth: 302 Height:176 Horz					Margin [dB]:	-14.08	-	-	-	-
Vertical 1000 - 3000MHz										
1806.6327	53.09 ave	-33.7	26.8	46.19	54	-	-	-	-	-
Azimuth: 348 Height:157 Vert					Margin [dB]:	-7.81	-	-	-	-
2709.8693	44.22 ave	-32.6	29.4	41.02	54	-	-	-	-	-
Azimuth: 61 Height:111 Vert					Margin [dB]:	-12.98	-	-	-	-
Vertical 3000 - 6000MHz										
3613.2557	42.15 ave	-31.2	31.6	42.55	54	-	-	-	-	-
Azimuth: 211 Height:106 Vert					Margin [dB]:	-11.45	-	-	-	-
4516.4449	28.04 ave	-30.2	32.6	30.44	54	-	-	-	-	-
Azimuth: 181 Height:108 Vert					Margin [dB]:	-23.56	-	-	-	-
5420.0338	32.33 ave	-29.8	34.2	36.73	54	-	-	-	-	-
Azimuth: 60 Height:163 Vert					Margin [dB]:	-17.27	-	-	-	-
Vertical 6000 - 10000MHz										
7226.5048	24.58 ave	-27.5	36.1	33.18	54	-	-	-	-	-
Azimuth: 170 Height:147 Vert					Margin [dB]:	-20.82	-	-	-	-
8129.7634	24.54 ave	-27.4	37.1	34.24	54	-	-	-	-	-
Azimuth: 176 Height:145 Vert					Margin [dB]:	-19.76	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

ave - Average detector

Figure 32 Radiated Emissions Graph (914MHz)

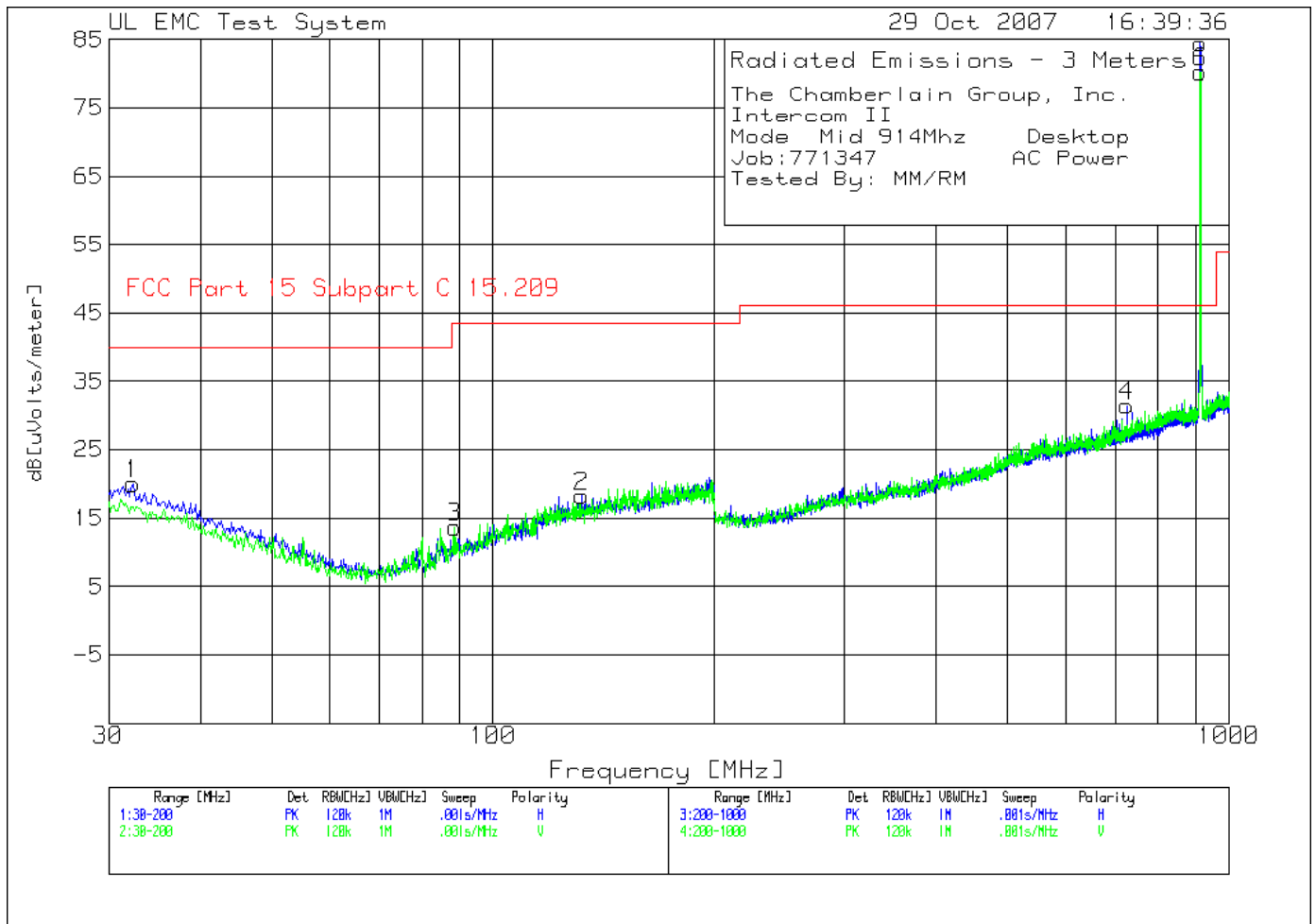


Table 33 Radiated Emissions Data Points

The Chamberlain Group, Inc.
 Intercom II
 Mode Mid 914MHz Desktop
 Job:771347 AC Power
 Tested By: MM/RM

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
Horizontal 30 - 200MHz										
1	32.3824	2.03 pk	.1	17.9	20.03	40	-	-	-	-
	Azimuth:185	Height:100	Horz	Margin [dB]:						
2	131.9319	3.44 pk	.8	14	18.24	43.5	-	-	-	-
	Azimuth:17	Height:400	Horz	Margin [dB]:						
Vertical 30 - 200MHz										
3	88.7087	3.58 pk	.5	9.6	13.68	43.5	-	-	-	-
	Azimuth:17	Height:100	Vert	Margin [dB]:						
Horizontal 200 - 1000MHz										
4	726.2631	7.24 pk	3	21.2	31.44	46	-	-	-	-
	Azimuth:16	Height:100	Horz	Margin [dB]:						
5	914.3572	57.66 pk	3.5	23.3	84.46	94	-	-	-	-
	Azimuth:16	Height:100	Horz	Margin [dB]:						
Vertical 200 - 1000MHz										
6	914.7574	52.93 pk	3.5	23.8	80.23	94	-	-	-	-
	Azimuth:255	Height:100	Vert	Margin [dB]:						

LIMIT 1: FCC Part 15 Subpart C 15.209

pk - Peak detector
 qp - Quasi-Peak detector

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
Horizontal 200 - 1000MHz										
914.3843	58.7 qp	3.5	23.3	85.5	94	-	-	-	-	-
	Azimuth: 212	Height: 100	Horz	Margin [dB]:						
Vertical 200 - 1000MHz										
914.3818	54.33 qp	3.5	23.8	81.63	94	-	-	-	-	-
	Azimuth: 291	Height: 112	Vert	Margin [dB]:						

LIMIT 1: FCC Part 15 Subpart C 15.249

pk - Peak detector
 qp - Quasi-Peak detector

Job Number: 771347 File Number: MC3181 Page 64 of 83
 Model Number: Intercom II
 Client Name: Chamberlain Group Inc.
 FCC ID: JLFTRX2

The Chamberlain Group, Inc.
 Intercom II
 Mode Mid 914MHz Wall Mount
 Job:771347 AC Power
 Tested By: MM/RM

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
=====											
Horizontal 200 - 1000MHz											
	914.3843	58.7 qp	3.5	23.3	85.5	94	-	-	-	-	-
	Azimuth:212	Height:100	Horz	Margin [dB]		-8.5					
Vertical 200 - 1000MHz											
	914.3818	54.33 qp	3.5	23.8	81.63	94	-	-	-	-	-
	Azimuth:291	Height:112	Vert	Margin [dB]		-12.37					

LIMIT 1: FCC Part 15 Subpart C 15.249

pk - Peak detector
 qp - Quasi-Peak detector

Table 34 Radiated Emissions Data Points (914MHz Battery Powered)

The Chamberlain Group, Inc.
 Intercom II
 Mode Mid 914Mhz Desktop
 Job:771347 Battery Power
 Tested By: MM/RM

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 30 - 200MHz										
1 32.3824	2.03 pk	.1	17.9	20.03	40	-	-	-	-	-
Azimuth: 185 Height:100 Horz					Margin [dB]:	-19.97				
Horizontal 200 - 1000MHz										
2 131.9319	3.44 pk	.8	14	18.24	43.5	-	-	-	-	-
Azimuth: 17 Height:400 Horz					Margin [dB]:	-25.26				
Vertical 30 - 200MHz										
3 88.7087	3.58 pk	.5	9.6	13.68	43.5	-	-	-	-	-
Azimuth: 17 Height:100 Vert					Margin [dB]:	-29.82				
Horizontal 200 - 1000MHz										
4 726.2631	7.24 pk	3	21.2	31.44	46	-	-	-	-	-
Azimuth: 16 Height:100 Horz					Margin [dB]:	-14.56				
Vertical 200 - 1000MHz										
5 914.3572	57.66 pk	3.5	23.3	84.46	46	-	-	-	-	-
Azimuth: 213 Height:100 Horz					Margin [dB]:	38.46				
Vertical 200 - 1000MHz										
6 914.7574	52.93 pk	3.5	23.8	80.23	46	-	-	-	-	-
Azimuth: 255 Height:100 Horz					Margin [dB]:	34.23				

LIMIT 1: FCC Part 15 Subpart C 15.209

pk - Peak detector

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 200 - 1000MHz										
914.3818	59.09 qp	3.5	23.3	85.89	94	-	-	-	-	-
Azimuth: 211 Height:101 Horz					Margin [dB]:	-8.11				
Vertical 200 - 1000MHz										
914.3838	53.62 qp	3.5	23.8	80.92	94	-	-	-	-	-
Azimuth: 291 Height:207 Vert					Margin [dB]:	-13.08				

LIMIT 1: FCC Part 15 Subpart C 15.209

qp - Quasi-Peak detector

Job Number: 771347 File Number: MC3181 Page 66 of 83
 Model Number: Intercom II
 Client Name: Chamberlain Group Inc.
 FCC ID: JLFTRX2

The Chamberlain Group, Inc.
 Intercom II
 Mode Mid 914Mhz Wall Mount
 Job:771347 Battery Power
 Tested By: MM/RM

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal 200 - 1000MHz										
914.3818	59.67	qp	3.5	23.3	86.47	94	-	-	-	-
Azimuth:205		Height:176		Horz		Margin [dB]:		-7.53		
	205		176	Horz						
Vertical 200 - 1000MHz										
914.3798	55.15	qp	3.5	23.8	82.45	94	-	-	-	-
Azimuth:296		Height:179		Vert		Margin [dB]:		-11.55		

LIMIT 1: FCC Part 15 Subpart C 15.209

qp - Quasi-Peak detector

Figure 33 Radiated Emissions Graph (914MHz)

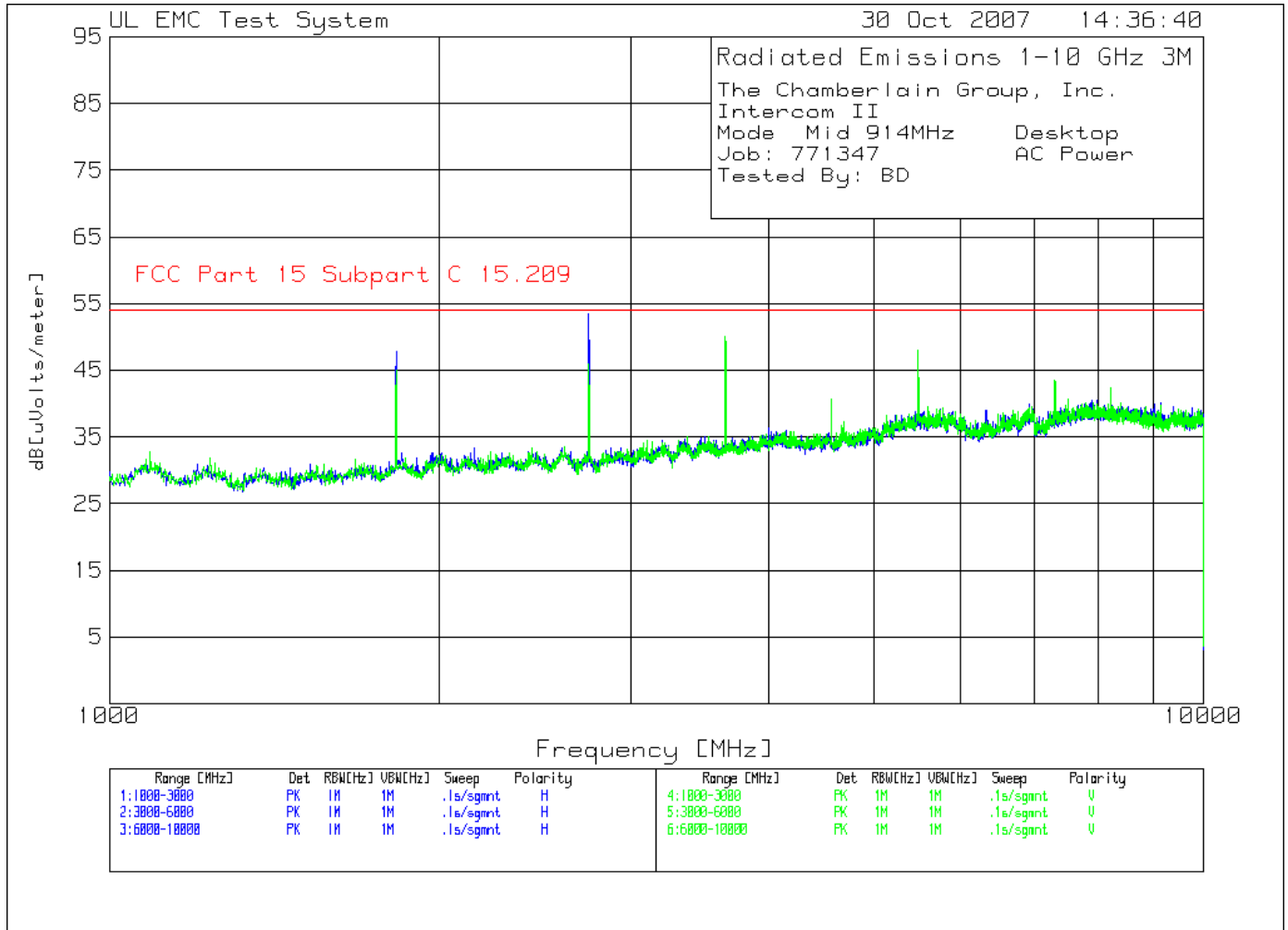


Table 35 Radiated Emissions Data Points (914MHz AC Power)

The Chamberlain Group, Inc.
 Intercom II
 Mode Mid 914MHz Desktop
 Job: 771347 AC Power
 Tested By: BD

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 1000 - 3000MHz										
1828.5615	54.75 ave	-33.7	26.9	47.95	54	-	-	-	-	-
Azimuth: 31		Height:119		Horz		Margin [dB]: -6.05		-	-	-
2742.9635	53.15 ave	-32.5	29.5	50.15	54	-	-	-	-	-
Azimuth: 277		Height:195		Horz		Margin [dB]: -3.85		-	-	-
Horizontal 3000 - 6000MHz										
3657.5571	44.39 ave	-31.2	31.9	45.09	54	-	-	-	-	-
Azimuth: 14		Height:175		Horz		Margin [dB]: -8.91		-	-	-
4571.7284	28.83 ave	-30.1	32.4	31.13	54	-	-	-	-	-
Azimuth: 172		Height:192		Horz		Margin [dB]: -22.87		-	-	-
5486.3173	35.56 ave	-29.4	34.3	40.46	54	-	-	-	-	-
Azimuth: 34		Height:190		Horz		Margin [dB]: -13.54		-	-	-
Vertical 1000 - 3000MHz										
1828.7299	52.2 ave	-33.7	26.9	45.4	54	-	-	-	-	-
Azimuth: 187		Height:156		Vert		Margin [dB]: -8.6		-	-	-
2743.1739	48.74 ave	-32.5	29.5	45.74	54	-	-	-	-	-
Azimuth: 268		Height:172		Vert		Margin [dB]: -8.26		-	-	-
Vertical 3000 - 6000MHz										
3657.4148	46.6 ave	-31.2	31.7	47.1	54	-	-	-	-	-
Azimuth: 276		Height:196		Vert		Margin [dB]: -6.9		-	-	-
4571.9969	31.73 ave	-30.1	32.7	34.33	54	-	-	-	-	-
Azimuth: 269		Height:155		Vert		Margin [dB]: -19.67		-	-	-
5486.3674	38.49 ave	-29.4	34.4	43.49	54	-	-	-	-	-
Azimuth: 12		Height:156		Vert		Margin [dB]: -10.51		-	-	-
Vertical 6000 - 10000MHz										
7315.0501	28.87 ave	-27.5	36.3	37.67	54	-	-	-	-	-
Azimuth: 252		Height:106		Vert		Margin [dB]: -16.33		-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

ave - Average detector

Job Number: 771347 File Number: MC3181 Page 69 of 83
 Model Number: Intercom II
 Client Name: Chamberlain Group Inc.
 FCC ID: JLFTRX2

The Chamberlain Group, Inc.
 Intercom II
 Mode Mid 914MHz Wall Mount
 Job: 771347 AC Power
 Tested By: BD

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
Horizontal 1000 - 3000MHz										
1828.6518	54.02 ave	-33.7	26.9	47.22	54	-	-	-	-	-
Azimuth: 336 Height:111		Horz	Margin [dB]:		-6.78	-	-	-	-	-
2743.0988	50.52 ave	-32.5	29.5	47.52	54	-	-	-	-	-
Azimuth: 318 Height:168		Horz	Margin [dB]:		-6.48	-	-	-	-	-
Horizontal 3000 - 6000MHz										
3657.7595	45.45 ave	-31.2	31.9	46.15	54	-	-	-	-	-
Azimuth: 310 Height:104		Horz	Margin [dB]:		-7.85	-	-	-	-	-
4572.022	36.18 ave	-30.1	32.4	38.48	54	-	-	-	-	-
Azimuth: 336 Height:196		Horz	Margin [dB]:		-15.52	-	-	-	-	-
4572.022	36.15 ave	-30.1	32.4	38.45	54	-	-	-	-	-
Azimuth: 336 Height:196		Horz	Margin [dB]:		-15.55	-	-	-	-	-
5486.3647	36.33 ave	-29.4	34.3	41.23	54	-	-	-	-	-
Azimuth: 0 Height:195		Horz	Margin [dB]:		-12.77	-	-	-	-	-
Vertical 1000 - 3000MHz										
1828.7049	51.34 ave	-33.7	26.9	44.54	54	-	-	-	-	-
Azimuth: 135 Height:103		Vert	Margin [dB]:		-9.46	-	-	-	-	-
2743.1259	52.07 ave	-32.5	29.5	49.07	54	-	-	-	-	-
Azimuth: 2 Height:162		Vert	Margin [dB]:		-4.93	-	-	-	-	-
Vertical 3000 - 6000MHz										
3657.4454	46.11 ave	-31.2	31.7	46.61	54	-	-	-	-	-
Azimuth: 186 Height:166		Vert	Margin [dB]:		-7.39	-	-	-	-	-
4571.9643	32.09 ave	-30.1	32.7	34.69	54	-	-	-	-	-
Azimuth: 170 Height:162		Vert	Margin [dB]:		-19.31	-	-	-	-	-
5486.3149	34.22 ave	-29.4	34.4	39.22	54	-	-	-	-	-
Azimuth: 51 Height:160		Vert	Margin [dB]:		-14.78	-	-	-	-	-
Vertical 6000 - 10000MHz										
7314.2081	25.04 ave	-27.5	36.3	33.84	54	-	-	-	-	-
Azimuth: 139 Height:125		Vert	Margin [dB]:		-20.16	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

ave - Average detector

Table 36 Radiated Emissions Data Points (914MHz Battery Power)

The Chamberlain Group, Inc.
 Intercom II
 Mode Mid 914MHz Desktop
 Job: 771347 Battery Power
 Tested By: BD

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 1000 - 3000MHz										
1828.6526	55.14 ave	-33.7	26.9	48.34	54	-	-	-	-	-
Azimuth: 36	Height:193	Horz	Margin [dB]:		-5.66	-	-	-	-	-
2743.1829	44.32 ave	-32.5	29.5	41.32	54	-	-	-	-	-
Azimuth: 106	Height:190	Horz	Margin [dB]:		-12.68	-	-	-	-	-
Horizontal 3000 - 6000MHz										
3657.6404	39.65 ave	-31.2	31.9	40.35	54	-	-	-	-	-
Azimuth: 285	Height:183	Horz	Margin [dB]:		-13.65	-	-	-	-	-
4571.7935	27.67 ave	-30.1	32.4	29.97	54	-	-	-	-	-
Azimuth: 196	Height:167	Horz	Margin [dB]:		-24.03	-	-	-	-	-
5485.6289	31.88 ave	-29.4	34.3	36.78	54	-	-	-	-	-
Azimuth: 49	Height:190	Horz	Margin [dB]:		-17.22	-	-	-	-	-
Vertical 1000 - 3000MHz										
1828.6824	50.2 ave	-33.7	26.9	43.4	54	-	-	-	-	-
Azimuth: 228	Height:161	Vert	Margin [dB]:		-10.6	-	-	-	-	-
2742.9975	41.5 ave	-32.5	29.5	38.5	54	-	-	-	-	-
Azimuth: 262	Height:160	Vert	Margin [dB]:		-15.5	-	-	-	-	-
Vertical 3000 - 6000MHz										
3657.4059	42.93 ave	-31.2	31.7	43.43	54	-	-	-	-	-
Azimuth: 286	Height:164	Vert	Margin [dB]:		-10.57	-	-	-	-	-
4571.4378	27.61 ave	-30.1	32.7	30.21	54	-	-	-	-	-
Azimuth: 10	Height:163	Vert	Margin [dB]:		-23.79	-	-	-	-	-
5486.4255	36.67 ave	-29.4	34.4	41.67	54	-	-	-	-	-
Azimuth: 269	Height:189	Vert	Margin [dB]:		-12.33	-	-	-	-	-
Vertical 6000 - 10000MHz										
7315.1009	27.66 ave	-27.5	36.3	36.46	54	-	-	-	-	-
Azimuth: 250	Height:105	Vert	Margin [dB]:		-17.54	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

ave - Average detector

Job Number: 771347 File Number: MC3181 Page 71 of 83
 Model Number: Intercom II
 Client Name: Chamberlain Group Inc.
 FCC ID: JLFTRX2

The Chamberlain Group, Inc.
 Intercom II
 Mode Mid 914MHz Wall Mount
 Job: 771347 Battery Power
 Tested By: BD

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 1000 - 3000MHz										
1828.745	54.35 ave	-33.7	26.9	47.55	54	-	-	-	-	-
Azimuth: 333		Height:107	Horz	Margin [dB]:	-6.45	-	-	-	-	-
2743.1364	45.93 ave	-32.5	29.5	42.93	54	-	-	-	-	-
Azimuth: 249		Height:170	Horz	Margin [dB]:	-11.07	-	-	-	-	-
Horizontal 3000 - 6000MHz										
3657.5351	47.06 ave	-31.2	31.9	47.76	54	-	-	-	-	-
Azimuth: 346		Height:176	Horz	Margin [dB]:	-6.24	-	-	-	-	-
4571.9544	33.54 ave	-30.1	32.4	35.84	54	-	-	-	-	-
Azimuth: 301		Height:170	Horz	Margin [dB]:	-18.16	-	-	-	-	-
5486.2924	37.58 ave	-29.4	34.3	42.48	54	-	-	-	-	-
Azimuth: 328		Height:160	Horz	Margin [dB]:	-11.52	-	-	-	-	-
Vertical 1000 - 3000MHz										
1828.6814	55.03 ave	-33.7	26.9	48.23	54	-	-	-	-	-
Azimuth: 118		Height:152	Vert	Margin [dB]:	-5.77	-	-	-	-	-
2743.0868	50.83 ave	-32.5	29.5	47.83	54	-	-	-	-	-
Azimuth: 42		Height:110	Vert	Margin [dB]:	-6.17	-	-	-	-	-
Vertical 3000 - 6000MHz										
3657.5506	42.91 ave	-31.2	31.7	43.41	54	-	-	-	-	-
Azimuth: 208		Height:130	Vert	Margin [dB]:	-10.59	-	-	-	-	-
4571.9043	33.1 ave	-30.1	32.7	35.7	54	-	-	-	-	-
Azimuth: 156		Height:132	Vert	Margin [dB]:	-18.3	-	-	-	-	-
5486.345	33.14 ave	-29.4	34.4	38.14	54	-	-	-	-	-
Azimuth: 237		Height:132	Vert	Margin [dB]:	-15.86	-	-	-	-	-
Vertical 6000 - 10000MHz										
7315.274	25.93 ave	-27.5	36.3	34.73	54	-	-	-	-	-
Azimuth: 150		Height:139	Vert	Margin [dB]:	-19.27	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

ave - Average detector

Figure 35 Radiated Emissions Graph (927MHz - AC Powered)

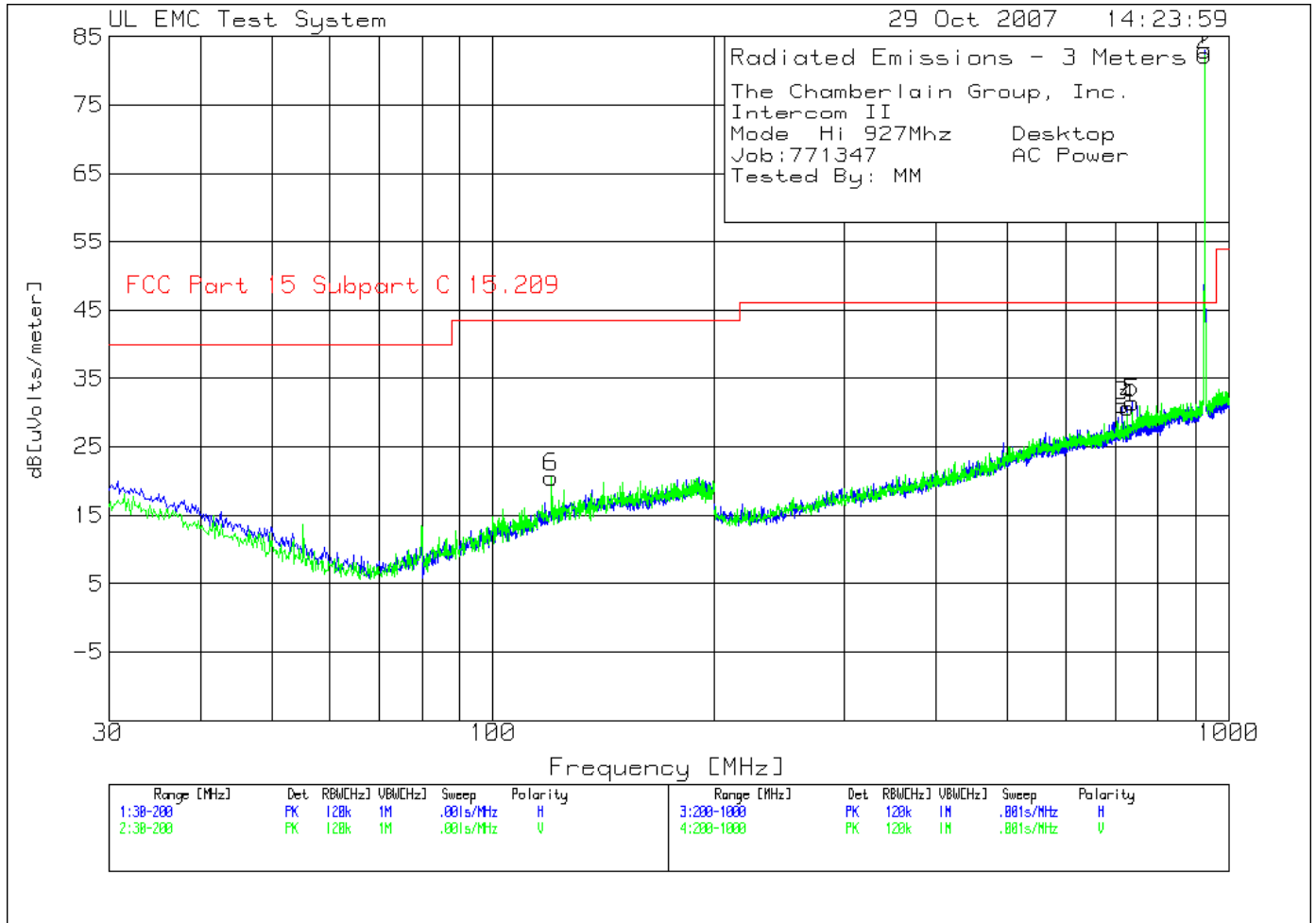


Table 38 Radiated Emissions Data Points

The Chamberlain Group, Inc.
 Intercom II
 Mode Hi 927Mhz Desktop
 Job:771347 AC Power
 Tested By: MM

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Vertical 30 - 200MHz										
6 120.02	6.35 pk	.7	13.5	20.55	43.5	-	-	-	-	-
Azimuth: 102	Height: 100	Vert	Margin [dB]:		-22.95					
Horizontal 200 - 1000MHz										
1 926.7634	55.94 pk	3.5	23.6	83.04	46	-	-	-	-	-
Azimuth: 232	Height: 299	Horz	Margin [dB]:		37.04					
3 716.6583	6.84 pk	3	21.2	31.04	46	-	-	-	-	-
Azimuth: 129	Height: 100	Horz	Margin [dB]:		-14.96					
4 727.8639	6.42 pk	3.1	21.2	30.72	46	-	-	-	-	-
Azimuth: 43	Height: 100	Horz	Margin [dB]:		-15.28					
5 739.0695	6.96 pk	3.1	21.4	31.46	46	-	-	-	-	-
Azimuth: 43	Height: 100	Horz	Margin [dB]:		-14.54					
Vertical 200 - 1000MHz										
2 927.1636	54.89 pk	3.5	23.9	82.29	46	-	-	-	-	-
Azimuth: 274	Height: 100	Vert	Margin [dB]:		36.29					

LIMIT 1: FCC Part 15 Subpart C 15.209

pk - Peak detector

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal 200 - 1000MHz										
926.8267	58.64 qp	3.5	23.6	85.74	94	-	-	-	-	-
Azimuth:24	Height:177	Horz	Margin [dB]:		-8.26					
Vertical 200 - 1000MHz										
926.8236	56.22 qp	3.5	23.9	83.62	94	-	-	-	-	-
Azimuth:79	Height:111	Vert	Margin [dB]:		-10.38					

LIMIT 1: FCC Part 15 Subpart C 15.249

qp - Quasi-Peak detector

Job Number: 771347 File Number: MC3181 Page 74 of 83
 Model Number: Intercom II
 Client Name: Chamberlain Group Inc.
 FCC ID: JLFTRX2

The Chamberlain Group, Inc.
 Intercom II
 Mode Hi 927Mhz Wall Mount
 Job:771347 AC Power
 Tested By: MM

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal 200 - 1000MHz										
926.8252	58.26 qp	3.5	23.6	85.36	94	-	-	-	-	-
Azimuth: 202		Height:312		Horz		Margin [dB]: -8.64				
Vertical 200 - 1000MHz										
926.8241	54.74 qp	3.5	23.9	82.14	94	-	-	-	-	-
Azimuth:330		Height:196		Vert		Margin [dB]: -11.86				

LIMIT 1: FCC Part 15 Subpart C 15.249

qp - Quasi-Peak detector

Table 39 Radiated Emissions Data Points (927MHz Battery Powered)

The Chamberlain Group, Inc.
 Intercom II
 Mode Hi 927Mhz Desktop
 Job:771347 Battery Power
 Tested By: MM

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
Vertical 30 - 200MHz										
6 120.02	6.35 pk	.7	13.5	20.55	43.5	-	-	-	-	-
Azimuth: 102 Height:100 Vert					Margin [dB]:	-22.95				
Horizontal 200 - 1000MHz										
1 926.7634	55.94 pk	3.5	23.6	83.04	46	-	-	-	-	-
Azimuth: 232 Height:299 Horz					Margin [dB]:	37.04				
3 716.6583	6.84 pk	3	21.2	31.04	46	-	-	-	-	-
Azimuth: 129 Height:100 Horz					Margin [dB]:	-14.96				
4 727.8639	6.42 pk	3.1	21.2	30.72	46	-	-	-	-	-
Azimuth: 43 Height:100 Horz					Margin [dB]:	-15.28				
5 739.0695	6.96 pk	3.1	21.4	31.46	46	-	-	-	-	-
Azimuth: 43 Height:100 Horz					Margin [dB]:	-14.54				
Vertical 200 - 1000MHz										
2 927.1636	54.89 pk	3.5	23.9	82.29	46	-	-	-	-	-
Azimuth: 274 Height:100 Vert					Margin [dB]:	36.29				

LIMIT 1: FCC Part 15 Subpart C 15.209

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 ave - Average detector

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
Horizontal 200 - 1000MHz										
926.8267	59.32 qp	3.5	23.6	86.42	94	-	-	-	-	-
Azimuth: 217 Height:183 Horz					Margin [dB]:	-7.58				
Vertical 200 - 1000MHz										
926.8252	54.26 qp	3.5	23.9	81.66	94	-	-	-	-	-
Azimuth: 297 Height:196 Vert					Margin [dB]:	-12.34				

LIMIT 1: FCC Part 15 Subpart C 15.209

qp - Quasi-Peak detector

Job Number: 771347 File Number: MC3181 Page 76 of 83
 Model Number: Intercom II
 Client Name: Chamberlain Group Inc.
 FCC ID: JLFTRX2

The Chamberlain Group, Inc.
 Intercom II
 Mode Hi 927Mhz Wall Mount
 Job:771347 Battery Power
 Tested By: MM

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Horizontal 200 - 1000MHz										
926.8236	59.81 qp	3.5	23.6	86.91	94	-	-	-	-	-
Azimuth: 202 Height:171 Horz			Margin [dB]:		-7.09					
Vertical 200 - 1000MHz										
926.8257	55.54 qp	3.5	23.9	82.94	94	-	-	-	-	-
Azimuth: 284 Height:189 Vert			Margin [dB]:		-11.06					

LIMIT 1: FCC Part 15 Subpart C 15.209

qp - Quasi-Peak detector

Figure 36 Radiated Emissions Graph (927MHz - AC Powered)

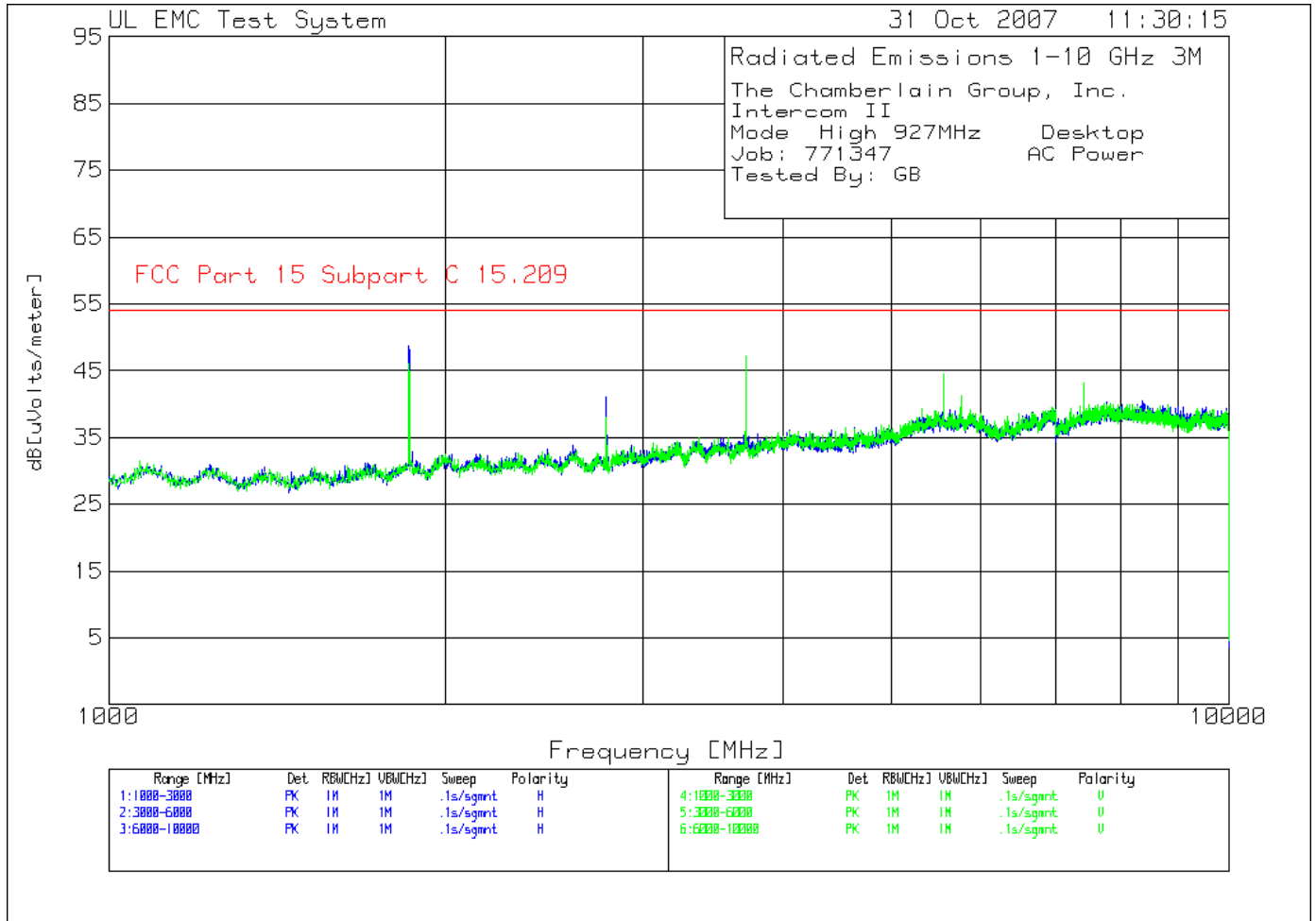


Table 40 Radiated Emissions Data Points

The Chamberlain Group, Inc.
 Intercom II
 Mode High 927MHz Desktop
 Job: 771347 AC Power
 Tested By: GB

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 1000 - 3000MHz										
1853.4629	56.97	ave -33.6	27.1	50.47	54	-	-	-	-	-
Azimuth: 33		Height:117	Horz	Margin [dB]:	-3.53	-	-	-	-	-
2780.4088	43.1	ave -32.5	29.6	40.2	54	-	-	-	-	-
Azimuth: 134		Height:188	Horz	Margin [dB]:	-13.8	-	-	-	-	-
Horizontal 3000 - 6000MHz										
3707.3026	41.73	ave -31.1	32	42.63	54	-	-	-	-	-
Azimuth: 293		Height:107	Horz	Margin [dB]:	-11.37	-	-	-	-	-
5560.8497	33.39	ave -29.2	34.3	38.49	54	-	-	-	-	-
Azimuth: 266		Height:108	Horz	Margin [dB]:	-15.51	-	-	-	-	-
Horizontal 6000 - 10000MHz										
7414.0601	21.95	ave -27.3	36.5	31.15	54	-	-	-	-	-
Azimuth: 87		Height:126	Horz	Margin [dB]:	-22.85	-	-	-	-	-
Vertical 1000 - 3000MHz										
1853.5797	51.8	ave -33.6	27	45.2	54	-	-	-	-	-
Azimuth: 271		Height:101	Vert	Margin [dB]:	-8.8	-	-	-	-	-
2780.4273	39.32	ave -32.5	29.6	36.42	54	-	-	-	-	-
Azimuth: 328		Height:157	Vert	Margin [dB]:	-17.58	-	-	-	-	-
Vertical 3000 - 6000MHz										
3707.3001	38.15	ave -31.1	31.8	38.85	54	-	-	-	-	-
Azimuth: 213		Height:133	Vert	Margin [dB]:	-15.15	-	-	-	-	-
5561.0818	36.81	ave -29.2	34.4	42.01	54	-	-	-	-	-
Azimuth: 284		Height:133	Vert	Margin [dB]:	-11.99	-	-	-	-	-
Vertical 6000 - 10000MHz										
7414.714	28.3	ave -27.3	36.6	37.6	54	-	-	-	-	-
Azimuth: 255		Height:147	Vert	Margin [dB]:	-16.4	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

ave - Average detector

Job Number: 771347 File Number: MC3181 Page 79 of 83
 Model Number: Intercom II
 Client Name: Chamberlain Group Inc.
 FCC ID: JLFTRX2

The Chamberlain Group, Inc.
 Intercom II
 Mode High 927MHz Wall Mount
 Job: 771347 AC Power
 Tested By: GB

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
Horizontal 1000 - 3000MHz										
1853.5245	58.43 ave	-33.6	27.1	51.93	54	-	-	-	-	-
Azimuth: 331		Height:111	Horz	Margin [dB]:	-2.07	-	-	-	-	-
2780.5527	39.79 ave	-32.5	29.6	36.89	54	-	-	-	-	-
Azimuth: 31		Height:167	Horz	Margin [dB]:	-17.11	-	-	-	-	-
Horizontal 3000 - 6000MHz										
3707.3923	42.66 ave	-31.1	32	43.56	54	-	-	-	-	-
Azimuth: 299		Height:136	Horz	Margin [dB]:	-10.44	-	-	-	-	-
5561.0938	37.17 ave	-29.2	34.3	42.27	54	-	-	-	-	-
Azimuth: 317		Height:165	Horz	Margin [dB]:	-11.73	-	-	-	-	-
Horizontal 6000 - 10000MHz										
7414.744	24.68 ave	-27.3	36.5	33.88	54	-	-	-	-	-
Azimuth: 139		Height:101	Horz	Margin [dB]:	-20.12	-	-	-	-	-
Vertical 1000 - 3000MHz										
1853.6047	54.49 ave	-33.6	27	47.89	54	-	-	-	-	-
Azimuth: 338		Height:102	Vert	Margin [dB]:	-6.11	-	-	-	-	-
2780.5076	41.66 ave	-32.5	29.6	38.76	54	-	-	-	-	-
Azimuth: 53		Height:103	Vert	Margin [dB]:	-15.24	-	-	-	-	-
Vertical 3000 - 6000MHz										
3707.3602	42.3 ave	-31.1	31.8	43	54	-	-	-	-	-
Azimuth: 197		Height:129	Vert	Margin [dB]:	-11	-	-	-	-	-
5560.9811	32.34 ave	-29.2	34.4	37.54	54	-	-	-	-	-
Azimuth: 326		Height:127	Vert	Margin [dB]:	-16.46	-	-	-	-	-
Vertical 6000 - 10000MHz										
7414.1743	23.98 ave	-27.3	36.6	33.28	54	-	-	-	-	-
Azimuth: 311		Height:192	Vert	Margin [dB]:	-20.72	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

ave - Average detector

Table 44 Radiated Emissions Data Points (927MHz Battery Powered)

The Chamberlain Group, Inc.
 Intercom II
 Mode High 927MHz Desktop
 Job: 771347 Battery Power
 Tested By: GB

Test	Meter	Gain/Loss	Transducer	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	dB[uVolts/meter]						
[MHz]	[dB(uV)]	[dB]	[dB]							
Horizontal 1000 - 3000MHz										
1853.7372	55.85	ave	-33.6	27.1	49.35	54	-	-	-	-
Azimuth: 38	Height:113	Horz		Margin [dB]:	-4.65		-	-	-	-
2780.2635	39.93	ave	-32.5	29.6	37.03	54	-	-	-	-
Azimuth: 40	Height:170	Horz		Margin [dB]:	-16.97		-	-	-	-
Horizontal 3000 - 6000MHz										
3707.0621	41.97	ave	-31.1	32	42.87	54	-	-	-	-
Azimuth: 287	Height:143	Horz		Margin [dB]:	-11.13		-	-	-	-
5561	33.09	ave	-29.2	34.3	38.19	54	-	-	-	-
Azimuth: 29	Height:186	Horz		Margin [dB]:	-15.81		-	-	-	-
Horizontal 6000 - 10000MHz										
7414	23.41	ave	-27.3	36.5	32.61	54	-	-	-	-
Azimuth: 107	Height:150	Horz		Margin [dB]:	-21.39		-	-	-	-
Vertical 1000 - 3000MHz										
2780.3863	40.98	ave	-32.5	29.6	38.08	54	-	-	-	-
Azimuth: 270	Height:197	Vert		Margin [dB]:	-15.92		-	-	-	-
1853.3853	51.35	ave	-33.6	27	44.75	54	-	-	-	-
Azimuth: 180	Height:153	Vert		Margin [dB]:	-9.25		-	-	-	-
Vertical 3000 - 6000MHz										
3707.1899	37.4	ave	-31.1	31.8	38.1	54	-	-	-	-
Azimuth: 211	Height:102	Vert		Margin [dB]:	-15.9		-	-	-	-
5560.6479	34.97	ave	-29.2	34.4	40.17	54	-	-	-	-
Azimuth: 18	Height:105	Vert		Margin [dB]:	-13.83		-	-	-	-
Vertical 6000 - 10000MHz										
7414.505	28.41	ave	-27.3	36.6	37.71	54	-	-	-	-
Azimuth: 251	Height:141	Vert		Margin [dB]:	-16.29		-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

ave - Average detector

Job Number: 771347 File Number: MC3181 Page 81 of 83
 Model Number: Intercom II
 Client Name: Chamberlain Group Inc.
 FCC ID: JLFTRX2

The Chamberlain Group, Inc.
 Intercom II
 Mode High 927MHz Wall Mount
 Job: 771347 Battery Power
 Tested By: GB

Test Frequency [MHz]	Meter Reading [dB(uV)]	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit:1	2	3	4	5	6
Horizontal 1000 - 3000MHz										
1853.6032	58.42	ave -33.6	27.1	51.92	54	-	-	-	-	-
Azimuth: 320		Height:113	Horz Margin [dB]:		-2.08	-	-	-	-	-
2780.38	42.32	ave -32.5	29.6	39.42	54	-	-	-	-	-
Azimuth: 1		Height:126	Horz Margin [dB]:		-14.58	-	-	-	-	-
Horizontal 3000 - 6000MHz										
3707.1122	42.98	ave -31.1	32	43.88	54	-	-	-	-	-
Azimuth: 307		Height:102	Horz Margin [dB]:		-10.12	-	-	-	-	-
5561.3257	34.55	ave -29.2	34.3	39.65	54	-	-	-	-	-
Azimuth: 175		Height:100	Horz Margin [dB]:		-14.35	-	-	-	-	-
Horizontal 6000 - 10000MHz										
7414	25.97	ave -27.3	36.5	35.17	54	-	-	-	-	-
Azimuth: 269		Height:129	Horz Margin [dB]:		-18.83	-	-	-	-	-
Vertical 1000 - 3000MHz										
1853.6293	53.9	ave -33.6	27	47.3	54	-	-	-	-	-
Azimuth: 340		Height:164	Vert Margin [dB]:		-6.7	-	-	-	-	-
2780.3587	41.1	ave -32.5	29.6	38.2	54	-	-	-	-	-
Azimuth: 151		Height:116	Vert Margin [dB]:		-15.8	-	-	-	-	-
Vertical 3000 - 6000MHz										
3706.8116	42.25	ave -31.1	31.8	42.95	54	-	-	-	-	-
Azimuth: 194		Height:129	Vert Margin [dB]:		-11.05	-	-	-	-	-
5560.9299	31.62	ave -29.2	34.4	36.82	54	-	-	-	-	-
Azimuth: 23		Height:125	Vert Margin [dB]:		-17.18	-	-	-	-	-
Vertical 6000 - 10000MHz										
7413.503	23.71	ave -27.3	36.6	33.01	54	-	-	-	-	-
Azimuth: 74		Height:175	Vert Margin [dB]:		-20.99	-	-	-	-	-

LIMIT 1: FCC Part 15 Subpart C 15.209

ave - Average detector

Appendix A

Accreditations and Authorizations



NVLAP Lab code: 100255-0

NVLAP: Recognized under the National Voluntary Laboratory Accreditation Program (NVLAP) for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC EN17025 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. For a full scope listing see <http://ts.nist.gov/ts/htdocs/210/214/scopes/1002550.htm>



FCC: Details of the measurement facilities used for these tests have been filed with the Federal Communications Commission's Laboratory in Columbia, Maryland (Ref. No. 91040).



Industry Canada Industrie Canada

Industry of Canada: Accredited by Industry Canada for performance of radiated measurements. Our test site complies with RSP 100, Issue 7, Section 3.3. File #: IC 2181



VCCI: Accepted as an Associate Member to the VCCI. The measurement facilities detailed in this test report have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. Registration Nos.: (Radiated Emissions) R-797, (Conducted Emissions) C-832, C-833, C-834 and (Conducted Emissions - Telecommunications Ports) T-160.



ICASA: ICASA (Independent Communications Authority of South Africa) has appointed UL as a Designated Test Laboratory to test Telecommunications equipment for type approval in compliance with CISPR 22 to assist in fulfilling its mandate under section 54(1) of the Telecommunications Act, 1996 (Act 103 of 1996).



NIST/CAB: Validated by the European Commission as a U.S. Conformity Assessment Body (CAB) of the U.S.-EU Mutual Recognition Agreement (MRA) for the Electromagnetic Compatibility - Council Directive 89/336/EEC, Article 10 (2). Also validated for the Telecommunication Equipment-Council Directive 99/5/EC, Annex III and IV, Identification Number: 0983.

NIST/CAB: Provisioned to act as a U.S. Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the Asia Pacific Economic Cooperation (APEC) MRA between the American Institute in Taiwan (AIT) and the United States. Our laboratory is considered qualified to test equipment subject to the applicable EMC regulations of the Chinese Taipei Bureau of Standards, Metrology and Inspection (BSMI) which require testing to CNS 13438 (CISPR 22).

NIST/CAB: Recognized by the Infocomm Development Authority of Singapore (IDA) under the Asia Pacific Economic Cooperation Mutual Recognition Agreement (APEC MRA). Our laboratory is provisionally designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC MRA. Our scope of designation includes IDA TS EMC (CISPR 22), IEC 61000-4-2, -4-3, -4-4, -4-5, and -4-6