

*EXHIBIT D*  
CKC TEST REPORT



**CERTIFICATION TEST REPORT**

**FOR THE**

**900 MHZ CORDLESS PHONE, MICROSOFT PHONE**

**FCC PART 15, SUBPART C**

**CLASS B COMPLIANCE**

**DATE OF ISSUE: APRIL 14, 1998**

**PREPARED FOR:**

Microsoft Corporation  
One Microsoft Way  
Redmond, WA 98052

P.O. No: 251210

W.O. No: 68,375

**Report No: FC98-012**

Date of test: February 13, 1998

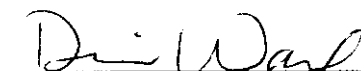
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## TABLE OF CONTENTS

|                                                                 |    |
|-----------------------------------------------------------------|----|
| Administrative Information .....                                | 3  |
| Summary Of Results .....                                        | 4  |
| Equipment Under Test (EUT) Description .....                    | 4  |
| Measurement Uncertainty .....                                   | 4  |
| Peripheral Devices .....                                        | 4  |
| Report Of Measurements .....                                    | 5  |
| Table 1: Six Highest Radiated Emission Levels .....             | 5  |
| Table 2: Six Highest Conducted Emission Levels .....            | 6  |
| Occupied Bandwidth Plot Part 15.231(c) .....                    | 7  |
| Occupied Bandwidth Plot Part 15.231(c) .....                    | 8  |
| Occupied Bandwidth Plot Part 15.231(c) .....                    | 9  |
| Occupied Bandwidth Plot Part 15.231(c) .....                    | 10 |
| Table A : List Of Test Equipment .....                          | 11 |
| EUT Setup .....                                                 | 12 |
| Test Instrumentation And Analyzer Settings .....                | 13 |
| Table B : Analyzer Bandwidth Settings Per Frequency Range ..... | 13 |
| Spectrum Analyzer Detector Functions .....                      | 14 |
| Peak .....                                                      | 14 |
| Quasi-Peak .....                                                | 14 |
| Average .....                                                   | 14 |
| Test Methods .....                                              | 15 |
| Radiated Emissions Testing .....                                | 15 |
| Conducted Emissions Testing .....                               | 16 |
| Occupied Bandwidth .....                                        | 16 |
| Sample Calculations .....                                       | 17 |
| Appendix A : Information About The Equipment Under Test .....   | 18 |
| I/O Ports .....                                                 | 19 |
| Crystal Oscillators .....                                       | 19 |
| Printed Circuit Boards .....                                    | 19 |
| Required EUT Changes To Comply .....                            | 19 |
| Cable Information .....                                         | 20 |
| Equipment Configuration Block Diagram .....                     | 21 |
| Photograph Showing Radiated Emissions .....                     | 22 |
| Photograph Showing Radiated Emissions .....                     | 23 |
| Photograph Showing Radiated Emissions .....                     | 24 |
| Photograph Showing Radiated Emissions .....                     | 25 |
| Photograph Showing Conducted Emissions .....                    | 26 |
| Photograph Showing Conducted Emissions .....                    | 27 |
| Appendix B : Measurement Data Sheets .....                      | 28 |

**ADMINISTRATIVE INFORMATION**

**DATE OF TEST:** February 13, 1998

**PURPOSE OF TEST:** To demonstrate the compliance of the 900 MHz Cordless Phone, Microsoft Phone, with the FCC Part 15, Subpart C requirements.

**MANUFACTURER:** Microsoft Corporation  
One Microsoft Way  
Redmond, WA 98052

**REPRESENTATIVE:** Ann Bovee

**TEST LOCATION:** CKC Laboratories, Inc.  
22105 Wilson River Hwy  
Tillamook, OR 97141

**TEST PERSONNEL:** Mike Wilkinson

**TEST METHOD:** ANSI C63.4 1992

**FREQUENCY RANGE TESTED:** 450 kHz - 5000 MHz

**EQUIPMENT UNDER TEST:**

**Base Unit**

Manuf: Microsoft  
Model: MP-900 BS  
Serial: JR020998A  
FCC ID: C3KT2

**Handset**

Manuf: Microsoft  
Model: MP-900 HS  
Serial: JR020998B  
FCC ID: C3KT2

## SUMMARY OF RESULTS

The Microsoft Corporation 900 MHz Cordless Phone was tested in accordance with ANSI C63.4 1992 for compliance with the requirements of Part 15, Subpart C of the FCC Rules.

As received, the above equipment was found to be fully compliant with the limits of FCC Part 15, Subpart C for both radiated and conducted emissions.

## EQUIPMENT UNDER TEST (EUT) DESCRIPTION

The Borg Pre-Beta.

## MEASUREMENT UNCERTAINTY

Associated with data in this report is a  $\pm 4$ dB measurement uncertainty.

## PERIPHERAL DEVICES

The EUT was tested with the following peripheral devices:

### Computer

Manuf: Dell  
Model: XPSD266  
Serial: BPZS5  
FCC ID: DOC

### Monitor

Manuf: IBM  
Model: P70  
Serial: 22-03652  
FCC ID: AK8GDM17SE2T

### Keyboard

Manuf: Dell  
Model: QuiteKeys  
Serial: 81730  
FCC ID: GYUR26SK

### Mouse

Manuf: Microsoft  
Model: Maui  
Serial: JR120197A  
FCC ID: C3KKMP5

### Printer

Manuf: HP  
Model: C3941A  
Serial: JPCD1020090  
FCC ID: B94C3941A

## REPORT OF MEASUREMENTS

The following Tables 1 and 2 report the six highest radiated and conducted emissions levels recorded during the tests performed on the Microsoft 900 MHz Cordless Phone. The data sheets from which these tables were compiled are contained in Appendix B.

**Table 1: Six Highest Radiated Emission Levels**

| FREQUENCY<br>MHz | METER<br>READING<br>dB $\mu$ V | CORRECTION FACTORS |           |             |                    | CORRECTED<br>READING<br>dB $\mu$ V/m | SPEC<br>LIMIT<br>dB $\mu$ V/m | MARGIN<br>dB | NOTES |
|------------------|--------------------------------|--------------------|-----------|-------------|--------------------|--------------------------------------|-------------------------------|--------------|-------|
|                  |                                | Ant<br>dB          | Amp<br>dB | Cable<br>dB | 10 dB<br>Pad<br>dB |                                      |                               |              |       |
| 122.886          | 55.7                           | 11.2               | -27.0     | 2.2         | 0.0                | 42.1                                 | 43.5                          | -1.4         | VQ    |
| 941.258          | 41.1                           | 23.4               | -27.4     | 7.6         | 0.0                | 44.7                                 | 46.0                          | -1.3         | HQ    |
| 2826.483         | 47.5                           | 29.4               | -39.7     | 4.3         | 10.0               | 52.5                                 | 54.0                          | -1.5         | VA    |
| 3161.024         | 45.6                           | 30.9               | -39.8     | 5.8         | 10.0               | 52.5                                 | 54.0                          | -1.5         | VA    |
| 3612.402         | 45.5                           | 31.5               | -39.8     | 6.2         | 10.0               | 53.4                                 | 54.0                          | -0.6         | VA    |
| 4515.483         | 42.5                           | 32.4               | -39.4     | 7.0         | 10.0               | 52.5                                 | 54.0                          | -1.5         | VA    |

Test Method: ANSI C63.4 1992  
Spec Limit : FCC Part 15.209/15.249  
Test Distance: 3 Meters

NOTES: H = Horizontal Polarization  
V = Vertical Polarization  
N = No Polarization  
D = Dipole Reading  
Q = Quasi Peak Reading  
A = Average Reading

COMMENTS: The table above was compiled from a combination of test conditions. For exact test conditions refer to the test data sheets contained in Appendix B.

**Table 2: Six Highest Conducted Emission Levels**

| FREQUENCY<br>MHz | METER<br>READING<br>dBμV | CORRECTION FACTORS |  |  |  | CORRECTED<br>READING<br>dBμV | SPEC<br>LIMIT<br>dBμV | MARGIN<br>dB | NOTES |
|------------------|--------------------------|--------------------|--|--|--|------------------------------|-----------------------|--------------|-------|
|                  |                          | Lisn<br>dB         |  |  |  |                              |                       |              |       |
| 0.842734         | 34.0                     | 0.0                |  |  |  | 34.0                         | 48.0                  | -14.0        | W     |
| 2.408561         | 34.0                     | 0.0                |  |  |  | 34.0                         | 48.0                  | -14.0        | B     |
| 3.370048         | 34.1                     | 0.0                |  |  |  | 34.1                         | 48.0                  | -13.9        | B     |
| 5.460732         | 34.1                     | 0.0                |  |  |  | 34.1                         | 48.0                  | -13.9        | W     |
| 15.495830        | 35.2                     | 0.0                |  |  |  | 35.2                         | 48.0                  | -12.8        | W     |
| 24.359250        | 34.3                     | 0.0                |  |  |  | 34.3                         | 48.0                  | -13.7        | W     |

Test Method: ANSI C63.4 1992  
Spec Limit : FCC Part 15.209/15.249  
Test Distance: No Distance

NOTES: Q = Quasi Peak Reading  
A = Average Reading  
B = Black Lead  
W = White Lead

COMMENTS: The table above was compiled from a combination of the following test conditions.

- Borg Unit operating in Telephone answering machine mode using Drvtest. The base unit uses 8 MHz clock. The RJ11 (J500) is connected to an active remote CO line. The printer is connected and is powered on. Handset TX freq. is 903 MHz and Base TX freq. is 926.9 MHz. The Handset is in the side position with its left side on the test table. The temperature was 56°F and the humidity was 78%. Base Unit connected to the LISN
- Borg Unit operating in Telephone answering machine mode using Drvtest. The base unit uses 8 MHz clock. The RJ11 (J500) is connected to an active remote CO line. The printer is connected and is powered on. Handset TX freq. is 903 MHz and Base TX freq. is 926.9 MHz. The Handset is in the side position with its left side on the test table. The temperature was 56°F and the humidity was 78%. Handset Charger connected to the LISN



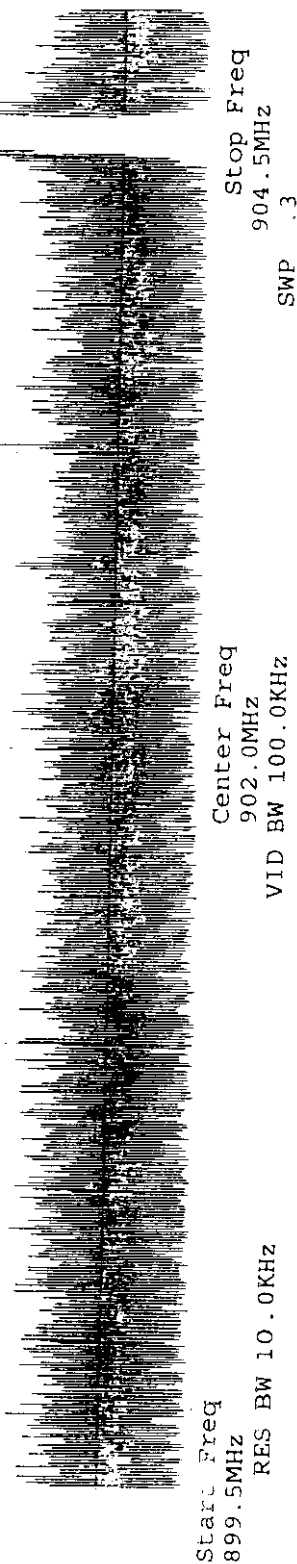
Testing the Future  
LABORATORIES, INC.

# Occupied Bandwidth Plot Part 15.231(c)

in die 2-12-88

Title: Borg Handset. Channel 27  
Ref Level 97 dBuV ATTN 0 dB  
10 dB/ Marker: 904.075MHz 86.8 dBuV

DL 54  
dBuV





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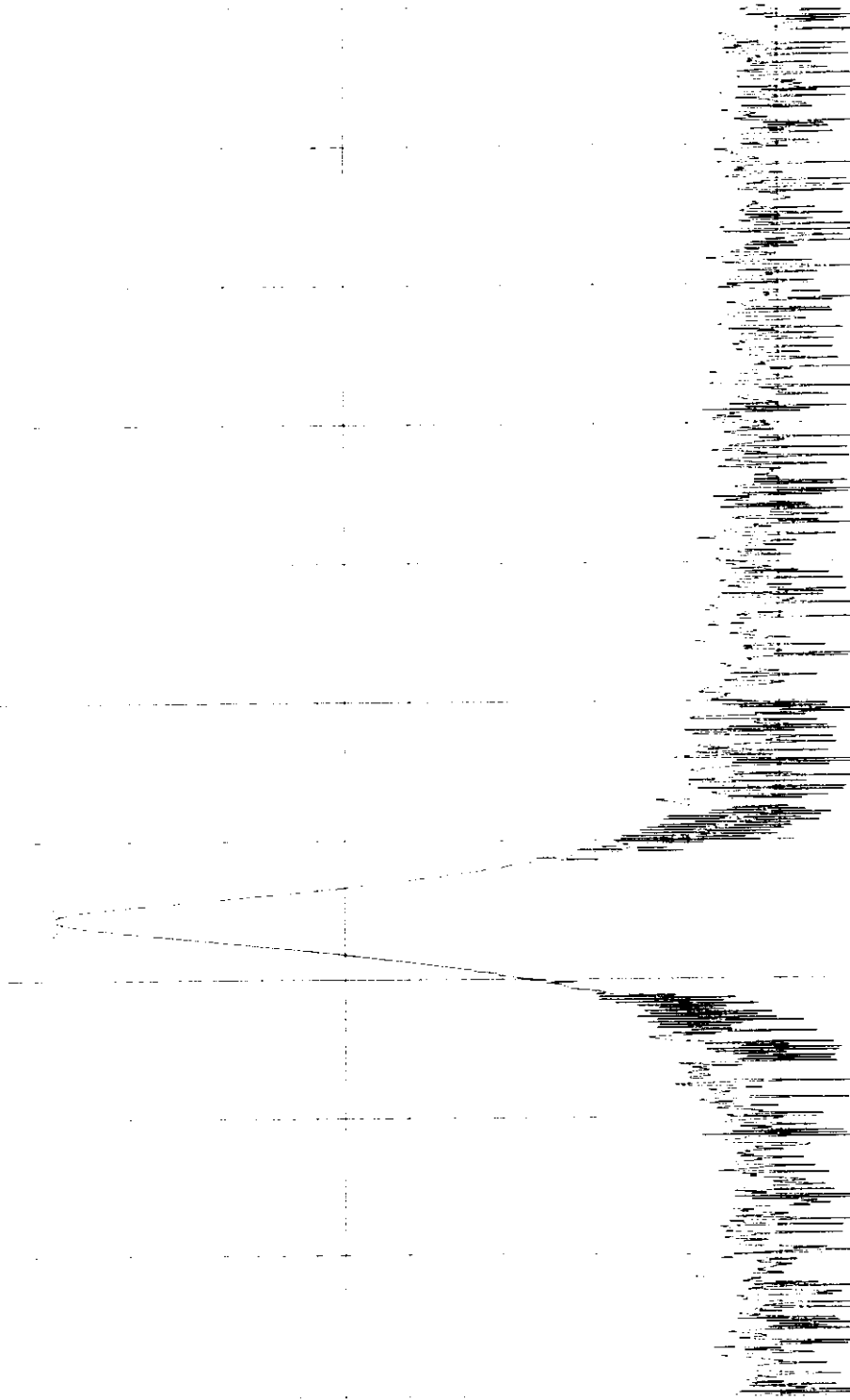
# Occupied Bandwidth Plot Part 15.231(c)

Wid 2-12-58

Title: Borg Base Unit. Channel 27  
Ref Level 97 dBuV ATTN 0 dB  
Marker: 927.842MHz 85.2 dBuV

10 dB/

DL  
54  
dBuV



Start Freq 927.5MHz RES BW 10.0KHz  
Center Freq 928.0MHz VID BW 100.0KHz  
Stop Freq 928.5MHz SWP .05

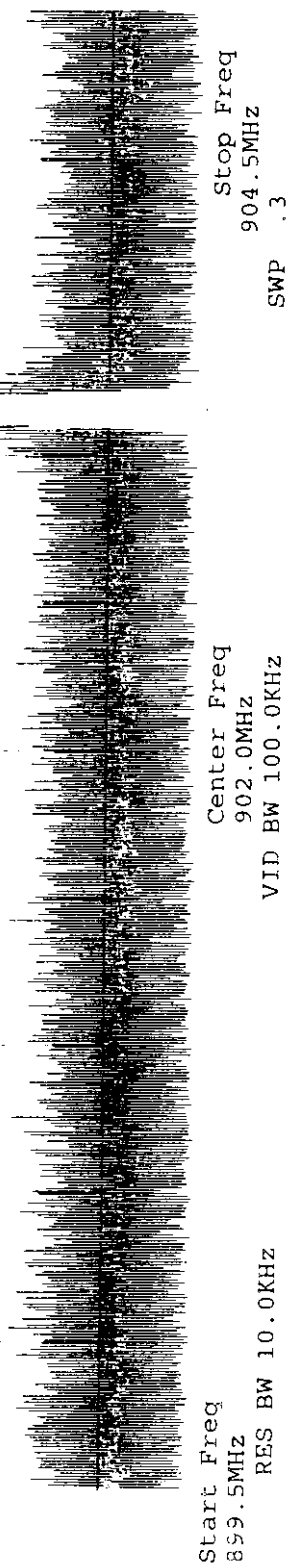
Occupied Bandwidth Plot Part 15.231(c)

*advised 2.12.88*

Title: Borg Handset. Channel 15  
 Ref Level 97 dBuV ATTN 0 dB  
 Marker: 903.155MHz 83.7 dBuV

10 dB/

DL  
 54  
 dBuV





Testing the Future  
LABORATORIES, INC.

# Occupied Bandwidth Plot Part 15.231(c)

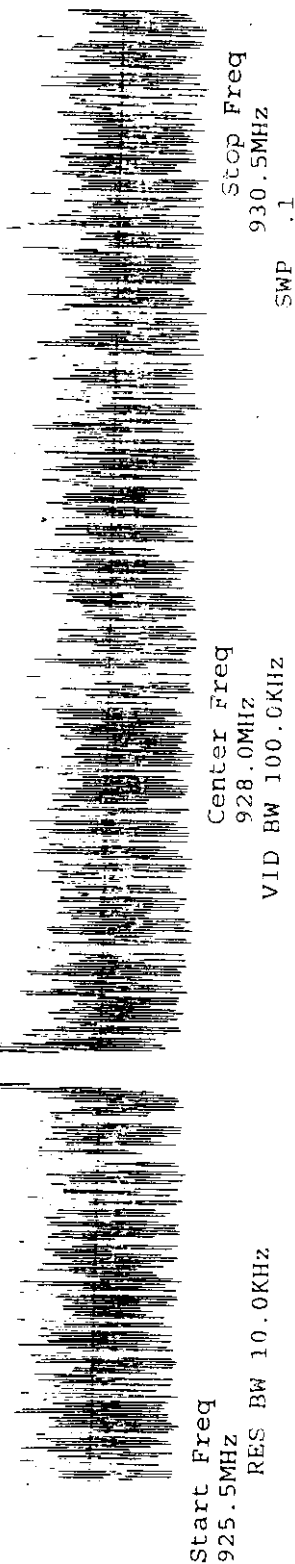
*Wich 2-12-88*

Title: Borg Base Unit, Channel 15  
Ref Level 97 dBuV ATTN 0 dB

Marker: 926.915MHz 81.1 dBuV

10 dB/

DL 54  
dBuV



Page 10 of 48  
Report No: FC98-012

**TABLE A**

**LIST OF TEST EQUIPMENT**

**Tillamook site A VCCI Registration Numbers R-577 & C-312**

1. EMI Receiver System, Hewlett Packard, Model No. 8574A, S/N 3010A01076. Calibration date: November 25, 1997. Calibration due date: November 25, 1998.
2. Preamp, Hewlett Packard, Model No. 8447D, S/N 2727A05392. Calibration date: June 11, 1997. Calibration due date: June 11, 1998.
3. High Frequency Preamp, Hewlett Packard, Model No. 83017A, S/N 3123A00283. Calibration date: April 30, 1997. Calibration due date: April 30, 1998.
4. Biconical Antenna, A & H Systems, Model No. SAS-200/540, S/N 359. Calibration date: May 12, 1997. Calibration due date: May 12, 1998.
5. Log Periodic Antenna, A & H Systems, Model No. SAS200/510, S/N 464. Calibration date: August 26, 1997. Calibration due date: August 26, 1998.
6. LISN, Chase, Model No. SW147LY, S/N 1516. Calibration date: January 14, 1998. Calibration due date: January 14, 1999.
7. LISN (3 phase), Solar, Model No. 50uH, S/N T-MOOK1-2. Calibration date: January 15, 1998. Calibration due date: January 15, 1999.
8. Tillamook A site calibration date: November 18, 1997. Tillamook A site calibration due date: November 18, 1998.
9. Test software, EMI Test 2.86.

## EUT SETUP

The equipment under test (EUT) and the peripherals listed were setup in a manner that represented their normal use. Any special conditions required for the EUT to operate normally are identified in the comments that accompany Table 1 for radiated emissions, and Table 2 for conducted emissions. Additionally, a complete description of all the ports and I/O cables is included on the information sheets contained in Appendix A.

During radiated emissions testing, the EUT was mounted on a nonconductive, rotating table 1 meter above the conductive grid. The nonconductive table dimensions were 1 meter by 1.5 meters. This configuration is typical for radiated emissions testing of table top devices.

I/O cables were connected to the EUT and peripherals in the manner required for normal operation of the system. Excess cabling was bundled in the center in a serpentine fashion using 30-40 centimeter lengths.

During conducted emissions testing, the EUT was located 80 centimeters above the conducting ground plane on the same nonconducting table as was used for radiated testing. The metal plane was grounded to the earth through the green wire safety ground. Power to the Power Adapter was provided via 3 meters of shielded power cable from a filter grounded to the metal plane to a LISN. The LISN was also grounded to the plane and attached to the LISN was a 4 ganged grounded outlet whose source was also shielded and 60 cm in length. All other objects were kept a minimum of 1 meter away from the EUT during the conducted test.

## TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed in Table A were used to collect both the radiated and conducted emissions data for the 900 MHz Cordless Phone, Microsoft Phone. For radiated measurements below 300 MHz, the biconical antenna was used. For frequencies from 300 to 1000 MHz, the log periodic antenna was used. For frequencies above 1000 MHz, the horn antenna was used. All antennas were located at a distance of 3 meters from the edge of the EUT. Conducted emissions tests required the use of the FCC type LISN's.

The HP spectrum analyzer was used for all measurements. Table B shows the analyzer bandwidth settings that were used in designated frequency bands. For conducted emissions, a reference level of 100 dB $\mu$ V and a vertical scale size of 10 dB per division were used. A 10 dB external attenuator was also used during conducted tests, with internal offset correction in the analyzer. During radiated testing, the measurements were made with 0 dB of attenuation, a reference level of 97 dB $\mu$ V, and a vertical scale of 10 dB per division.

**TABLE B : ANALYZER BANDWIDTH SETTINGS PER FREQUENCY RANGE**

| TEST                | BEGINNING FREQUENCY | ENDING FREQUENCY | BANDWIDTH SETTING |
|---------------------|---------------------|------------------|-------------------|
| CONDUCTED EMISSIONS | 450 kHz             | 30 MHz           | 9 kHz             |
| RADIATED EMISSIONS  | 30 MHz              | 1000 MHz         | 120 kHz           |
| RADIATED EMISSIONS  | 1000 MHz            | 5000 MHz         | 1 MHz             |

## **SPECTRUM ANALYZER DETECTOR FUNCTIONS**

The notes that accompany the measurements contained in Tables 1 and 2 indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "Peak" mode. Whenever a "Quasi-Peak" or "Average" reading is listed as one of the six highest readings, this is indicated as a "Q" or an "A" in Table 1 or Table 2. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data for the Microsoft 900 MHz Cordless Phone.

### **Peak**

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

### **Quasi-Peak**

When the true peak values exceeded or were within 2 dB of the specification limit, quasi-peak measurements were taken using the HP 85650A Quasi-Peak Adapter for the HP 8568B Spectrum Analyzer. The detailed procedure for making quasi peak measurements contained in the HP Quasi-Peak Adapter manual were followed.

### **Average**

When the frequencies exceed 1 GHz, average measurements may be made using the spectrum analyzer. To make these measurements, the test engineer reduces the video bandwidth on the analyzer until the modulation of the signal is filtered out. At this point the analyzer is set into the linear mode and the scan time is reduced.

## TEST METHODS

The radiated and conducted emissions data of the 900 MHz Cordless Phone, Microsoft Phone, was taken with the HP Spectrum Analyzer. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the "Sample Calculations". The corrected data was then compared to the FCC Part 15, Subpart C emissions limits to determine compliance.

Preliminary and final measurements were taken in order to better ensure that all emissions from the EUT were found and maximized.

### Radiated Emissions Testing

During the preliminary radiated scan, the EUT was powered up and operating in its defined FCC test mode with the I/O cables and line cords facing the antenna. The frequency range of 30 MHz - 88 MHz was then scanned with the biconical antenna located about 1.5 meter above the ground plane in the vertical configuration. During this scan, the turntable was rotated and all peaks which were at or near the limit were recorded. The frequency range of 100 - 300 MHz was scanned with the biconical antenna in the same manner, and the peaks recorded. Lastly, a scan of the FM band from 88 - 110 MHz was made, using a reduced resolution bandwidth and a reduced frequency span. The biconical antenna was changed to the horizontal polarity and the above steps were repeated. After changing to the log periodic antenna in the horizontal configuration, the frequency range of 300 - 1000 MHz was scanned. The log periodic antenna was changed to the vertical polarity and the frequency range of 300 - 1000 MHz was again scanned. For frequencies above 1000 MHz, the horn antenna was used. Care was taken to ensure that no frequencies were missed within the FM and TV bands. An analysis was performed to determine if the signals that were at or near the limit were caused by an ambient transmission. If unable to determine by analysis, the equipment was powered down to make the final determination if the EUT was the source of the emission.

For the final radiated scan, the equipment was again positioned with its I/O and power cables facing the antenna. A thorough scan of all frequencies was manually made using a small frequency span, rotating the turntable as needed. Comparison with the previously recorded measurements was then made.

Using the peak readings from both scans as a guide, the test engineer then maximized the readings with respect to the table rotation, antenna height and configuration of the peripherals and cables. Maximizing of the cables was achieved by monitoring the spectrum analyzer on a closed circuit television monitor while the EUT cables were being moved and rearranged on the EUT table for maximum emissions. Photographs showing the final worst case configuration of the EUT are contained in Appendix A.

### **Conducted Emissions Testing**

For conducted emissions testing, a 30 to 50 second sweep time was used for automated measurements in the frequency bands of 450 kHz to 1.705 MHz, 1.705 MHz to 3 MHz, and 3 MHz to 30 MHz. All readings within 20 dB of the limit were recorded. At frequencies where the recorded emissions were close to the limit, further investigation was performed manually at a slower sweep rate.

Tables 1 and 2 show the corrected values of the six highest readings obtained for the Microsoft Corporation 900 MHz Cordless Phone.

### **Occupied Bandwidth Measurements**

In accordance with Part 15.215(c), the fundamental frequency was kept within the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

## SAMPLE CALCULATIONS

The basic spectrum analyzer reading was converted using correction factors as shown in the six highest emissions readings in Tables 1 and 2. For radiated emissions in dB $\mu$ V/m, the spectrum analyzer reading in dB $\mu$ V was corrected by using the following formula:

$$\begin{aligned}
 &\text{Meter reading (dB}\mu\text{V)} \\
 &+ \text{Antenna Factor (dB)} \\
 &+ \text{Cable Loss (dB)} \\
 &- \text{Distance Correction (dB)} \\
 &- \text{Pre-amplifier Gain (dB)} \\
 &= \text{Corrected Reading (dB}\mu\text{V/m)}
 \end{aligned}$$

This reading was then compared to the applicable specification limit to determine compliance. For conducted emissions, no correction factors were needed when 50  $\mu$ H LISN's were used.

A typical data sheet will display the following in column format:

| # | Freq<br>MHz | Rdng<br>dBuV | Cable | Amp. | Bicon | Horn | Log | Dist | Corr<br>dBuV/m | Spec | Margin | Polar |
|---|-------------|--------------|-------|------|-------|------|-----|------|----------------|------|--------|-------|
|---|-------------|--------------|-------|------|-------|------|-----|------|----------------|------|--------|-------|

# means reading number

**Freq MHz** is the frequency in MHz of the obtained reading.

**Rdng dBuV** is the reading obtained on the spectrum analyzer in dB $\mu$ V.

**Amp.** is short for the preamplifier factor or gain in dB.

**Bicon** is the biconical antenna factor in dB.

**Log** is the log periodic antenna factor in dB.

**Horn** is the horn antenna factor in dB.

**Cable** is the cable loss in dB of the coaxial cable on the OATS.

**Dist** is the distance factor (in dB). It is used when testing at a different test distance than the one stated in the spec.

**Corr dB $\mu$ V/m** is the corrected reading which is now in dB $\mu$ V/m (field strength).

**Spec** is the specification limit (dB) stated in the agency's regulations.

**Margin** is the closeness to the specified limit in dB; + is over and - is under the limit.

**Polar** is the Polarity of the antenna with respect to earth.

**APPENDIX A**

**INFORMATION ABOUT THE EQUIPMENT UNDER TEST**

### INFORMATION ABOUT THE EQUIPMENT UNDER TEST

|                                                    |                  |
|----------------------------------------------------|------------------|
| Test Software/Firmware:                            |                  |
| CRT was displaying:                                |                  |
| Power Supply Manufacturer:                         |                  |
| Power Supply Part Number:                          |                  |
| AC Adapter Type:                                   | 120V, 12V, 300mA |
| AC Adapter Part Number/Revision:                   | 35B21300012      |
| The AC power cord is removable and is NOT shielded |                  |
| Line voltage used during testing: 120V 60Hz        |                  |

### I/O PORTS

| Type   | # |
|--------|---|
| Serial | 1 |
|        |   |
|        |   |
|        |   |
|        |   |
|        |   |

### CRYSTAL OSCILLATORS

| Type              | Freq. In MHz |
|-------------------|--------------|
| Z89169 (Base)     | 20.48        |
| HC05 (Base)       | 8            |
| Crystal (Base)    | 1.8432       |
| Crystal (Base RF) | 13.865       |
| Hco5 (Handset)    | 4            |
| Crystal (Handset) | 13.865       |

### PRINTED CIRCUIT BOARDS

| Function | Model & Rev             | Clocks, MHz      | Layers | Location  |
|----------|-------------------------|------------------|--------|-----------|
| Base     | 20801520011 Revision 14 | 20.48, 8, 1.8432 |        | Base Unit |
| Base RF  | 20F01520015 Revision 15 | 13.865           |        |           |
| Handset  | 20A01520016 Revision 16 | 4, 13.865        |        |           |
| Charger  | 20C01520013 Revision 13 | None             |        |           |

### REQUIRED EUT CHANGES TO COMPLY:

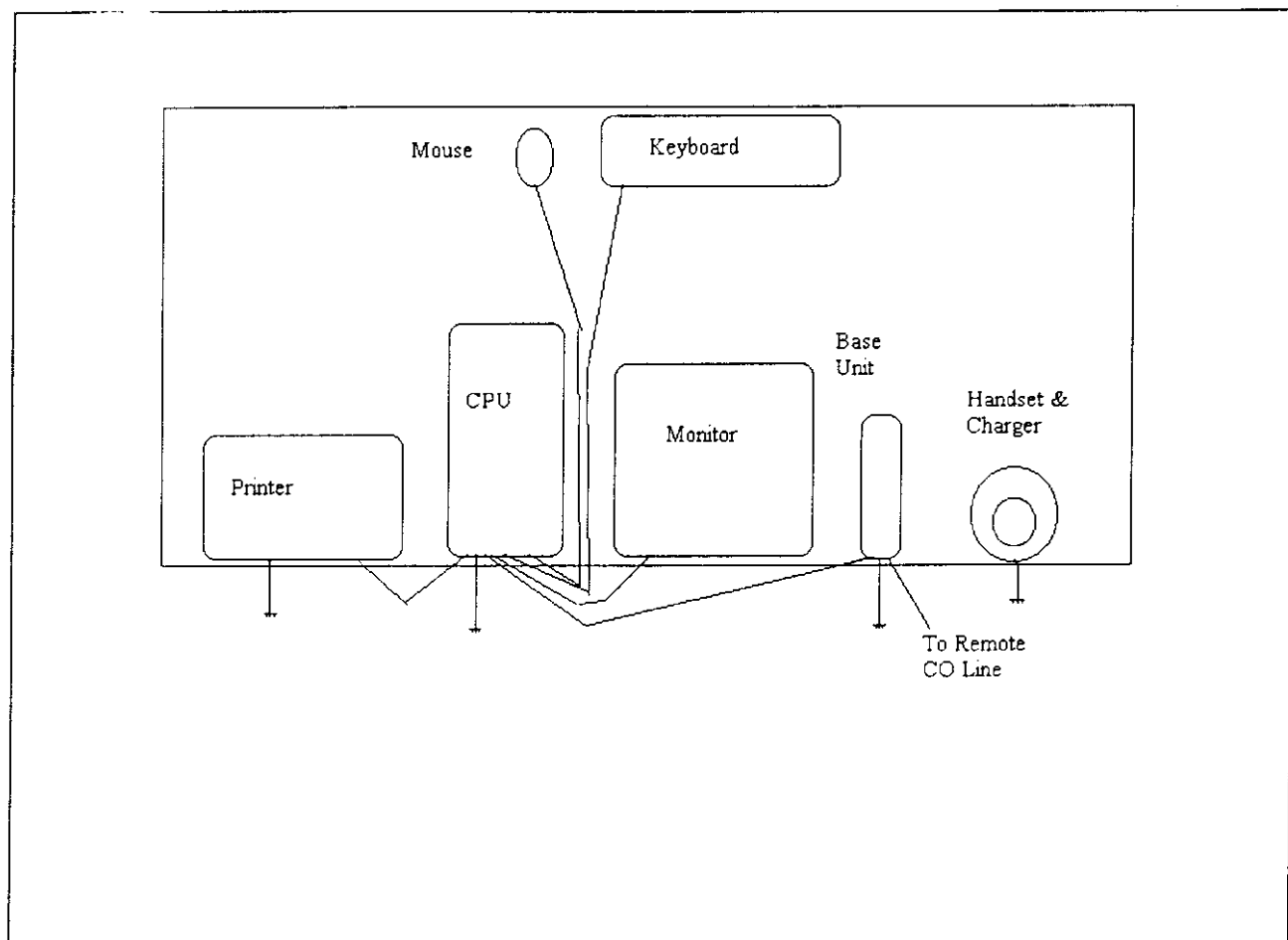
|       |
|-------|
| None. |
|-------|

### CABLE INFORMATION

|                                                                                                                                                                                            |                                                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cable #: 1                                                                                                                                                                                 | Cable(s) of this type: 1                                                                                                                                                                           |
| Cable Type: Serial<br>Construction: Round<br>Connected To End (1): Base Station<br>Connector At End (1): Computer<br>Shield Grounded At (1): Data Ground,<br>Shield Ground<br>Part Number: | Shield Type: Foil<br>Length In Meters:<br>Connected To End (2): Hard Wired<br>Connector At End (2): Serial/RS232<br>Shield Grounded At (2): Data Ground,<br>Shield Ground<br>Number of Conductors: |
| Notes: Cable Part Number, Revision: 53D11092000, Cable<br>Manufacturer: Foxlink                                                                                                            |                                                                                                                                                                                                    |

Cable Routing For Worst Case Emissions:  
Cable length only allows routing as shown in photograph.

**EQUIPMENT CONFIGURATION BLOCK DIAGRAM**



NOTES:

**APPENDIX B**  
**MEASUREMENT DATA SHEETS**

Test Location: CKC LABORATORIES INC. • 22105 Wilson River Hwy, Site A • Tillamook, Oregon 97141  
• (800) 500-4EMC

Customer: Microsoft Corporation  
Specification: FCC15209 & 249  
Test Type: Maximized Emissions  
Equipment: 900 MHz Cordless Phone  
Manufacturer: Microsoft  
Model: MP-900 ( Borg )  
S/N: JR020998A

Date: Feb-12-98  
Time: 14:22  
Sequence#: 2  
Tested By: Mike Wilkinson

#### Equipment Under Test

| Function   | Manufacturer | Model #   | S/N       |
|------------|--------------|-----------|-----------|
| Base Unit* | Microsoft    | MP-900 BS | JR020998A |
| Handset    | Microsoft    | MP-900 HS | JR020998B |

#### Support Devices:

| Function | Manufacturer | Model #   | S/N         |
|----------|--------------|-----------|-------------|
| Computer | Dell         | XPSD266   | BPZS5       |
| Monitor  | IBM          | P70       | 22-03652    |
| Keyboard | Dell         | QuiteKeys | 81730       |
| Mouse    | Microsoft    | Maui      | JR120197A   |
| Printer  | HP           | C3941A    | JPCD1020090 |

#### Test Conditions / Notes:

Borg Unit operating in Telephone answering machine mode using Drvtest. The base unit uses 8 MHz clock. The RJ11 (J500) is connected to an active remote CO line. The printer is connected and is powered on. The handset is placed in a vertical position and is in its charging stand. Handset TX freq. is 903.MHz and Base TX freq. is 926.9MHz. The temperature was 56°F and the humidity was 78%. Frequency range tested was 30 to 5000 MHz

#### Measurement Data: Sorted by Margin Test Distance: 3 Meters

| #          | Freq<br>MHz | Rdng<br>dBμV | 10dB<br>Pad<br>Log dB | Amp<br>dB | Cable<br>dB | Bicon/<br>Horn<br>dB | Dist<br>dB | Corr<br>dBμV/m | Spec<br>dBμV/m | Margin<br>dB | Polar |
|------------|-------------|--------------|-----------------------|-----------|-------------|----------------------|------------|----------------|----------------|--------------|-------|
| 1          | 3612.402    | 45.5         | +10.0                 | -39.8     | +6.2        | +0.0                 | +0.0       | 53.4           | 54.0           | -0.6         | Vert  |
| Average    |             |              |                       |           |             | +31.5                |            |                |                |              |       |
| 2          | 4515.483    | 42.5         | +10.0                 | -39.4     | +7.0        | +0.0                 | +0.0       | 52.5           | 54.0           | -1.5         | Vert  |
| Average    |             |              |                       |           |             | +32.4                |            |                |                |              |       |
| 3          | 4515.474    | 42.0         | +10.0                 | -39.4     | +7.0        | +0.0                 | +0.0       | 52.0           | 54.0           | -2.0         | Horiz |
| Average    |             |              |                       |           |             | +32.4                |            |                |                |              |       |
| 4          | 941.258     | 40.2         | +0.0                  | -27.4     | +7.6        | +23.4                | +0.0       | 43.8           | 46.0           | -2.2         | Vert  |
| Quasi Peak |             |              | +0.0                  |           |             |                      |            |                |                |              |       |
| 5          | 926.938     | 87.6         | +0.0                  | -27.5     | +7.5        | +23.3                | +0.0       | 90.9           | 94.0           | -3.1         | Vert  |
| Quasi Peak |             |              | +0.0                  |           |             |                      |            |                |                |              |       |
| 6          | 451.582     | 49.0         | +0.0                  | -27.6     | +4.9        | +16.5                | +0.0       | 42.8           | 46.0           | -3.2         | Vert  |
| Quasi Peak |             |              | +0.0                  |           |             |                      |            |                |                |              |       |
| 7          | 2257.744    | 47.6         | +10.0                 | -39.4     | +4.7        | +0.0                 | +0.0       | 50.4           | 54.0           | -3.6         | Vert  |
| Average    |             |              | +0.0                  |           |             | +27.5                |            |                |                |              |       |
| 8          | 470.632     | 48.3         | +0.0                  | -27.7     | +4.8        | +16.8                | +0.0       | 42.2           | 46.0           | -3.8         | Vert  |
| Quasi Peak |             |              | +0.0                  |           |             |                      |            |                |                |              |       |

|      |            |      |       |       |      |       |      |      |      |       |       |
|------|------------|------|-------|-------|------|-------|------|------|------|-------|-------|
| 9    | 122.887    | 53.1 | +11.2 | -27.0 | +2.2 | +0.0  | +0.0 | 39.5 | 43.5 | -4.0  | Vert  |
|      | Quasi Peak |      | +0.0  |       |      |       |      |      |      |       |       |
| 10   | 4063.936   | 40.7 | +10.0 | -39.5 | +6.3 | +0.0  | +0.0 | 49.7 | 54.0 | -4.3  | Vert  |
|      | Average    |      | +0.0  |       |      | +32.2 |      |      |      |       |       |
| 11   | 903.154    | 86.3 | +0.0  | -27.6 | +7.4 | +23.1 | +0.0 | 89.2 | 94.0 | -4.8  | Vert  |
|      | Quasi Peak |      | +0.0  |       |      |       |      |      |      |       |       |
| 12   | 3160.851   | 42.0 | +10.0 | -39.8 | +5.8 | +0.0  | +0.0 | 48.9 | 54.0 | -5.1  | Vert  |
|      | Average    |      | +0.0  |       |      | +30.9 |      |      |      |       |       |
| 13   | 884.104    | 37.9 | +0.0  | -27.6 | +7.3 | +22.8 | +0.0 | 40.4 | 46.0 | -5.6  | Vert  |
|      | Quasi Peak |      | +0.0  |       |      |       |      |      |      |       |       |
| 14   | 3612.392   | 40.3 | +10.0 | -39.8 | +6.2 | +0.0  | +0.0 | 48.3 | 54.0 | -5.7  | Horiz |
|      | Average    |      |       |       |      | +31.5 |      |      |      |       |       |
| 15   | 3110.724   | 41.8 | +10.0 | -39.8 | +4.6 | +30.7 |      | 48.3 | 54.0 | -5.7  | Vert  |
|      | Average    |      |       |       |      |       |      |      |      |       |       |
| 16   | 77.387     | 50.2 | +9.2  | -27.1 | +1.6 | +0.0  | +0.0 | 33.9 | 40.0 | -6.1  | Vert  |
|      |            |      | +0.0  |       |      |       |      |      |      |       |       |
| 17   | 941.252    | 36.2 | +0.0  | -27.4 | +7.6 | +23.4 | +0.0 | 39.8 | 46.0 | -6.2  | Horiz |
|      |            |      | +0.0  |       |      |       |      |      |      |       |       |
| 18   | 582.907    | 43.8 | +0.0  | -27.9 | +5.7 | +18.1 | +0.0 | 39.7 | 46.0 | -6.3  | Vert  |
|      | Quasi Peak |      | +0.0  |       |      |       |      |      |      |       |       |
| 19   | 588.910    | 43.3 | +0.0  | -27.9 | +5.9 | +18.2 | +0.0 | 39.5 | 46.0 | -6.5  | Vert  |
|      | Quasi Peak |      | +0.0  |       |      |       |      |      |      |       |       |
| 20   | 577.201    | 43.3 | +0.0  | -27.9 | +5.5 | +18.1 | +0.0 | 39.0 | 46.0 | -7.0  | Vert  |
|      |            |      | +0.0  |       |      |       |      |      |      |       |       |
| 21   | 2257.733   | 44.0 | +10.0 | -39.4 | +4.7 | +27.5 | +0.0 | 46.8 | 54.0 | -7.2  | Horiz |
|      | Average    |      | +0.0  |       |      |       |      |      |      |       |       |
| 22   | 922.211    | 35.2 | +0.0  | -27.5 | +7.4 | +23.3 | +0.0 | 38.4 | 46.0 | -7.6  | Vert  |
|      |            |      | +0.0  |       |      |       |      |      |      |       |       |
| 23   | 122.935    | 49.4 | +11.2 | -27.0 | +2.2 | +0.0  | +0.0 | 35.8 | 43.5 | -7.7  | Horiz |
|      |            |      | +0.0  |       |      |       |      |      |      |       |       |
| 24   | 126.298    | 49.0 | +11.3 | -27.0 | +2.3 | +0.0  | +0.0 | 35.6 | 43.5 | -7.9  | Vert  |
|      |            |      | +0.0  |       |      |       |      |      |      |       |       |
| 25   | 903.150    | 83.2 | +0.0  | -27.6 | +7.4 | +23.1 | +0.0 | 86.1 | 94.0 | -7.9  | Horiz |
|      |            |      | +0.0  |       |      |       |      |      |      |       |       |
| 26   | 200.066    | 43.9 | +14.7 | -26.6 | +3.1 | +0.0  | +0.0 | 35.1 | 43.5 | -8.4  | Vert  |
|      |            |      | +0.0  |       |      |       |      |      |      |       |       |
| 27   | 1806.208   | 44.1 | +10.0 | -39.4 | +4.1 | +26.5 | +0.0 | 45.3 | 54.0 | -8.7  | Vert  |
|      |            |      |       |       |      |       |      |      |      |       |       |
| 28   | 173.253    | 45.5 | +13.1 | -26.8 | +2.8 | +0.0  | +0.0 | 34.6 | 43.5 | -8.9  | Vert  |
|      |            |      | +0.0  |       |      |       |      |      |      |       |       |
| +2.5 | 149.509    | 46.5 | +12.4 | -27.0 | +2.5 | +0.0  | +0.0 | 34.4 | 43.5 | -9.1  | Vert  |
|      |            |      | +0.0  |       |      |       |      |      |      |       |       |
| 30   | 599.943    | 40.7 | +0.0  | -27.9 | +5.8 | +18.3 | +0.0 | 36.9 | 46.0 | -9.1  | Horiz |
|      |            |      | +0.0  |       |      |       |      |      |      |       |       |
| 31   | 799.831    | 36.6 | +0.0  | -27.8 | +6.9 | +21.0 | +0.0 | 36.7 | 46.0 | -9.3  | Vert  |
|      |            |      | +0.0  |       |      |       |      |      |      |       |       |
| 32   | 884.138    | 33.9 | +0.0  | -27.6 | +7.3 | +22.8 | +0.0 | 36.4 | 46.0 | -9.6  | Horiz |
|      |            |      | +0.0  |       |      |       |      |      |      |       |       |
| 33   | 926.933    | 79.4 | +0.0  | -27.5 | +7.5 | +23.3 | +0.0 | 82.7 | 94.0 | -11.3 | Horiz |
|      |            |      | +0.0  |       |      |       |      |      |      |       |       |

Test Location: CKC LABORATORIES INC. • 22105 Wilson River Hwy, Site A • Tillamook, Oregon 97141  
• (800) 500-4EMC

Customer: Microsoft Corporation Date: Feb-10-98  
Specification: FCC15209 & 249 Time: 08:00  
Test Type: Maximized Emissions Sequence#: 4  
Equipment: 900 MHz Cordless Phone  
Manufacturer: Microsoft Tested By: Mike Wilkinson  
Model: MP-900 ( Borg )  
S/N: JR020998A

#### Equipment Under Test

| Function  | Manufacturer | Model #   | S/N       |
|-----------|--------------|-----------|-----------|
| Base Unit | Microsoft    | MP-900 BS | JR020998A |
| Handset   | Microsoft    | MP-900 HS | JR020998B |

#### Support Devices:

| Function | Manufacturer | Model #   | S/N         |
|----------|--------------|-----------|-------------|
| Computer | Dell         | XPSD266   | BPZS5       |
| Monitor  | IBM          | P70       | 22-03652    |
| Keyboard | Dell         | QuiteKeys | 81730       |
| Mouse    | Microsoft    | Maui      | JR120197A   |
| Printer  | HP           | C3941A    | JPCD1020090 |

#### Test Conditions / Notes:

Borg Unit operating in Telephone answering machine mode using Drvtest. The base unit uses 8 MHz clock. The RJ11 (J500) is connected to an active remote CO line. The printer is connected and is powered on. The handset is placed in a vertical position and is in its charging stand. Handset TX freq. is 904 MHz and Base TX freq. is 927.8 MHz. The temperature was 56°F and the humidity was 78%. Frequency range tested was 30 to 5000 MHz

#### Measurement Data:

Sorted by Margin

Test Distance: 3 Meters

| #          | Freq<br>MHz | Rdng<br>dBμV | 10 dB<br>Pad<br>Bicon or<br>Horn dB | Hi Fr<br>dB | Cable<br>dB | Cable<br>dB | Dist<br>dB | Corr<br>dBμV/m | Spec<br>dBμV/m | Margin<br>dB | Polar |
|------------|-------------|--------------|-------------------------------------|-------------|-------------|-------------|------------|----------------|----------------|--------------|-------|
| 1          | 2826.483    | 47.5         | +10.0                               | -39.7       | +2.7        | +2.6        | +0.0       | 52.5           | 54.0           | -1.5         | Vert  |
| Average    |             |              | +29.4                               |             |             |             |            |                |                |              |       |
| 2          | 2712.162    | 47.0         | +10.0                               | -39.6       | +2.6        | +2.6        | +0.0       | 51.8           | 54.0           | -2.2         | Vert  |
| Average    |             |              | +29.1                               |             |             |             |            |                |                |              |       |
| 3          | 3164.211    | 44.5         | +10.0                               | -39.8       | +2.9        | +2.9        | +0.0       | 51.4           | 54.0           | -2.6         | Vert  |
| Average    |             |              | +30.9                               |             |             |             |            |                |                |              |       |
| 4          | 904.115     | 87.6         | +23.1                               | -27.6       | +7.4        | +0.0        | +0.0       | 90.5           | 94.0           | -3.5         | Vert  |
|            |             |              | +0.0                                |             |             |             |            |                |                |              |       |
| 5          | 3616.242    | 42.5         | +10.0                               | -39.8       | +3.1        | +3.1        | +0.0       | 50.4           | 54.0           | -3.6         | Vert  |
| Average    |             |              | +31.5                               |             |             |             |            |                |                |              |       |
| 6          | 927.850     | 86.8         | +23.3                               | -27.5       | +7.5        | +0.0        | +0.0       | 90.1           | 94.0           | -3.9         | Vert  |
| Quasi Peak |             |              | +0.0                                |             |             |             |            |                |                |              |       |
| 7          | 2826.485    | 44.5         | +10.0                               | -39.7       | +2.7        | +2.6        | +0.0       | 49.5           | 54.0           | -4.5         | Horiz |
| Average    |             |              | +29.4                               |             |             |             |            |                |                |              |       |

|    |            |      |       |       |      |      |      |      |      |       |       |
|----|------------|------|-------|-------|------|------|------|------|------|-------|-------|
| 8  | 4520.290   | 37.9 | +10.0 | -39.4 | +3.5 | +3.5 | +0.0 | 47.9 | 54.0 | -6.1  | Vert  |
|    | Average    |      | +32.4 |       |      |      |      |      |      |       |       |
| 9  | 1333.052   | 48.9 | +10.0 | -39.9 | +1.8 | +1.7 | +0.0 | 47.3 | 54.0 | -6.7  | Vert  |
|    |            |      | +24.8 |       |      |      |      |      |      |       |       |
| 10 | 927.848    | 82.7 | +23.3 | -27.5 | +7.5 | +0.0 | +0.0 | 86.0 | 94.0 | -8.0  | Horiz |
|    |            |      | +0.0  |       |      |      |      |      |      |       |       |
| 11 | 904.064    | 81.9 | +23.1 | -27.6 | +7.4 | +0.0 | +0.0 | 84.8 | 94.0 | -9.2  | Horiz |
|    | Quasi Peak |      | +0.0  |       |      |      |      |      |      |       |       |
| 12 | 3164.211   | 36.3 | +10.0 | -39.8 | +2.9 | +2.9 | +0.0 | 43.2 | 54.0 | -10.8 | Horiz |
|    | Average    |      | +30.9 |       |      |      |      |      |      |       |       |

Test Location: CKC LABORATORIES INC. • 22105 Wilson River Hwy, Site A • Tillamook, Oregon 97141  
• (800) 500-4EMC

Customer: Microsoft Corporation  
Specification: FCC15209 & 249  
Test Type: Maximized Emissions  
Equipment: 900 MHz Cordless Phone  
Manufacturer: Microsoft  
Model: MP-900 ( Borg )  
S/N: JR020998A

Date: Feb-11-98  
Time: 06:08  
Sequence#: 5  
Tested By: Mike Wilkinson

#### Equipment Under Test

| Function  | Manufacturer | Model #   | S/N       |
|-----------|--------------|-----------|-----------|
| Base Unit | Microsoft    | MP-900 BS | JR020998A |
| Handset   | Microsoft    | MP-900 HS | JR020998B |

#### Support Devices:

| Function | Manufacturer | Model #   | S/N         |
|----------|--------------|-----------|-------------|
| Computer | Dell         | XPSD266   | BPZS5       |
| Monitor  | IBM          | P70       | 22-03652    |
| Keyboard | Dell         | QuiteKeys | 81730       |
| Mouse    | Microsoft    | Maui      | JR120197A   |
| Printer  | HP           | C3941A    | JPCD1020090 |

#### Test Conditions / Notes:

Borg Unit operating in Telephone answering machine mode using Drvtest. The base unit uses 8 MHz clock. The RJ11 (J500) is connected to an active remote CO line. The printer is connected and is powered on. Handset TX freq. is 903 MHz and Base TX freq. is 926.9 MHz. The Handset is in the horizontal position with its back on the test table. The temperature was 56°F and the humidity was 78%. Frequency range tested was 30 to 5000 MHz

#### Measurement Data:

Sorted by Margin

Test Distance: 3 Meters

| # | Freq<br>MHz | Rdng<br>dBμV | Log<br>Bicon or<br>Horn dB | 10 dB<br>Hi Fr<br>dB | Cable<br>dB | Cable<br>dB | Dist<br>dB | Corr<br>dBμV/m | Spec<br>dBμV/m | Margin<br>dB | Polar |
|---|-------------|--------------|----------------------------|----------------------|-------------|-------------|------------|----------------|----------------|--------------|-------|
| 1 | 3161.024    | 45.6         | +10.0                      | -39.8                | +2.9        | +2.9        | +0.0       | 52.5           | 54.0           | -1.5         | Vert  |
|   | Average     |              | +30.9                      |                      |             |             |            |                |                |              |       |
| 2 | 122.887     | 55.6         | +11.2                      | -27.0                | +2.2        | +0.0        | +0.0       | 42.0           | 43.5           | -1.5         | Vert  |
|   | Quasi Peak  |              | +0.0                       |                      |             |             |            |                |                |              |       |
| 3 | 2709.447    | 47.2         | +10.0                      | -39.6                | +2.6        | +2.6        | +0.0       | 51.9           | 54.0           | -2.1         | Vert  |
|   |             |              | +29.1                      |                      |             |             |            |                |                |              |       |
| 4 | 926.992     | 88.6         | +23.3                      | -27.5                | +7.5        | +0.0        | +0.0       | 91.9           | 94.0           | -2.1         | Vert  |
|   | Quasi Peak  |              | +0.0                       |                      |             |             |            |                |                |              |       |
| 5 | 3612.599    | 42.5         | +10.0                      | -39.8                | +3.1        | +3.1        | +0.0       | 50.4           | 54.0           | -3.6         | Vert  |
|   | Average     |              | +31.5                      |                      |             |             |            |                |                |              |       |
| 6 | 903.154     | 86.9         | +23.1                      | -27.6                | +7.4        | +0.0        | +0.0       | 89.8           | 94.0           | -4.2         | Horiz |
|   | Quasi Peak  |              | +0.0                       |                      |             |             |            |                |                |              |       |
| 7 | 4515.754    | 39.5         | +10.0                      | -39.4                | +3.5        | +3.5        | +0.0       | 49.5           | 54.0           | -4.5         | Vert  |
|   | Average     |              | +32.4                      |                      |             |             |            |                |                |              |       |

|    |            |      |       |       |      |      |      |      |      |       |       |
|----|------------|------|-------|-------|------|------|------|------|------|-------|-------|
| 8  | 174.086    | 49.5 | +13.2 | -26.8 | +2.8 | +0.0 | +0.0 | 38.7 | 43.5 | -4.8  | Vert  |
|    | Quasi Peak |      | +0.0  |       |      |      |      |      |      |       |       |
| 9  | 3294.382   | 41.5 | +10.0 | -39.8 | +2.9 | +2.9 | +0.0 | 48.6 | 54.0 | -5.4  | Vert  |
|    |            |      | +31.1 |       |      |      |      |      |      |       |       |
| 10 | 126.315    | 50.9 | +11.3 | -27.0 | +2.3 | +0.0 | +0.0 | 37.5 | 43.5 | -6.0  | Vert  |
|    | Quasi Peak |      | +0.0  |       |      |      |      |      |      |       |       |
| 11 | 884.148    | 37.4 | +22.8 | -27.6 | +7.3 | +0.0 | +0.0 | 39.9 | 46.0 | -6.1  | Horiz |
|    |            |      | +0.0  |       |      |      |      |      |      |       |       |
| 12 | 149.512    | 49.4 | +12.4 | -27.0 | +2.5 | +0.0 | +0.0 | 37.3 | 43.5 | -6.2  | Vert  |
|    |            |      | +0.0  |       |      |      |      |      |      |       |       |
| 13 | 449.279    | 45.7 | +16.5 | -27.6 | +4.9 | +0.0 | +0.0 | 39.5 | 46.0 | -6.5  | Vert  |
|    |            |      | +0.0  |       |      |      |      |      |      |       |       |
| 14 | 96.262     | 52.4 | +9.7  | -27.1 | +1.9 | +0.0 | +0.0 | 36.9 | 43.5 | -6.6  | Vert  |
|    | Quasi Peak |      | +0.0  |       |      |      |      |      |      |       |       |
| 15 | 200.018    | 45.4 | +14.7 | -26.6 | +3.1 | +0.0 | +0.0 | 36.6 | 43.5 | -6.9  | Vert  |
|    | Quasi Peak |      | +0.0  |       |      |      |      |      |      |       |       |
| 16 | 3161.023   | 40.0 | +10.0 | -39.8 | +2.9 | +2.9 | +0.0 | 46.9 | 54.0 | -7.1  | Horiz |
|    | Average    |      | +30.9 |       |      |      |      |      |      |       |       |
| 17 | 599.891    | 42.6 | +18.3 | -27.9 | +5.8 | +0.0 | +0.0 | 38.8 | 46.0 | -7.2  | Horiz |
|    |            |      | +0.0  |       |      |      |      |      |      |       |       |
| 18 | 903.154    | 83.6 | +23.1 | -27.6 | +7.4 | +0.0 | +0.0 | 86.5 | 94.0 | -7.5  | Vert  |
|    | Quasi Peak |      | +0.0  |       |      |      |      |      |      |       |       |
| 19 | 2257.882   | 43.2 | +10.0 | -39.4 | +2.4 | +2.3 | +0.0 | 46.0 | 54.0 | -8.0  | Vert  |
|    | Average    |      | +27.5 |       |      |      |      |      |      |       |       |
| 20 | 104.503    | 50.0 | +10.2 | -27.1 | +2.0 | +0.0 | +0.0 | 35.1 | 43.5 | -8.4  | Vert  |
|    |            |      | +0.0  |       |      |      |      |      |      |       |       |
| 21 | 4515.748   | 35.1 | +10.0 | -39.4 | +3.5 | +3.5 | +0.0 | 45.1 | 54.0 | -8.9  | Horiz |
|    | Average    |      | +32.4 |       |      |      |      |      |      |       |       |
| 22 | 77.395     | 47.3 | +9.2  | -27.1 | +1.6 | +0.0 | +0.0 | 31.0 | 40.0 | -9.0  | Vert  |
|    | Quasi Peak |      | +0.0  |       |      |      |      |      |      |       |       |
| 23 | 943.567    | 33.0 | +23.5 | -27.4 | +7.6 | +0.0 | +0.0 | 36.7 | 46.0 | -9.3  | Vert  |
|    |            |      | +0.0  |       |      |      |      |      |      |       |       |
| 24 | 921.626    | 32.9 | +23.3 | -27.5 | +7.4 | +0.0 | +0.0 | 36.1 | 46.0 | -9.9  | Vert  |
|    |            |      | +0.0  |       |      |      |      |      |      |       |       |
| 25 | 926.939    | 79.1 | +23.3 | -27.5 | +7.5 | +0.0 | +0.0 | 82.4 | 94.0 | -11.6 | Horiz |
|    | Quasi Peak |      | +0.0  |       |      |      |      |      |      |       |       |
| 26 | 471.815    | 39.2 | +16.8 | -27.7 | +4.8 | +0.0 | +0.0 | 33.1 | 46.0 | -12.9 | Vert  |
|    |            |      | +0.0  |       |      |      |      |      |      |       |       |

Test Location: CKC LABORATORIES INC. • 22105 Wilson River Hwy. Site A • Tillamook, Oregon 97141  
• (800) 500-4EMC

Customer: Microsoft Corporation

Date: Feb-13-98

Specification: FCC15209 & 249

Time: 11:23

Test Type: Maximized Emissions

Sequence#: 6

Equipment: 900 MHz Cordless Phone

Manufacturer: Microsoft

Tested By: Mike Wilkinson

Model: MP-900 ( Borg )

S/N: JR020998A

#### Equipment Under Test

| Function  | Manufacturer | Model #   | S/N       |
|-----------|--------------|-----------|-----------|
| Base Unit | Microsoft    | MP-900 BS | JR020998A |
| Handset   | Microsoft    | MP-900 HS | JR020998B |

#### Support Devices:

| Function | Manufacturer | Model #   | S/N         |
|----------|--------------|-----------|-------------|
| Computer | Dell         | XPSP266   | BPZS5       |
| Monitor  | IBM          | P70       | 22-03652    |
| Keyboard | Dell         | QuiteKeys | 81730       |
| Mouse    | Microsoft    | Maui      | JR120197A   |
| Printer  | HP           | C3941A    | JPCD1020090 |

#### Test Conditions / Notes:

Borg Unit operating in Telephone answering machine mode using Drvtest. The base unit uses 8 MHz clock. The RJ11 (J500) is connected to an active remote CO line. The printer is connected and is powered on. Handset TX freq. is 903 MHz and Base TX freq. is 926.9 MHz. The Handset is in the side position with its left side on the test table. The temperature was 56°F and the humidity was 78%. Frequency range tested was 30 to 5000 MHz

#### Measurement Data:

Sorted by Margin

Test Distance: 3 Meters

| # | Freq<br>MHz | Rdng<br>dBμV | 10 dB<br>Log<br>Bicon or<br>Horn dB | Hi Fr<br>dB | Cable<br>dB | Cable<br>dB | Dist<br>dB | Corr<br>dBμV/m | Spec<br>dBμV/m | Margin<br>dB | Polar |
|---|-------------|--------------|-------------------------------------|-------------|-------------|-------------|------------|----------------|----------------|--------------|-------|
| 1 | 941.258     | 41.1         | +23.4                               | -27.4       | +7.6        | +0.0        | +0.0       | 44.7           | 46.0           | -1.3         | Horiz |
|   | Quasi Peak  |              | +0.0                                |             |             |             |            |                |                |              |       |
| 2 | 122.886     | 55.7         | +11.2                               | -27.0       | +2.2        | +0.0        | +0.0       | 42.1           | 43.5           | -1.4         | Vert  |
|   | Quasi Peak  |              | +0.0                                |             |             |             |            |                |                |              |       |
| 3 | 122.886     | 55.6         | +11.2                               | -27.0       | +2.2        | +0.0        | +0.0       | 42.0           | 43.5           | -1.5         | Vert  |
|   | Quasi Peak  |              | +0.0                                |             |             |             |            |                |                |              |       |
| 4 | 926.939     | 86.8         | +23.3                               | -27.5       | +7.5        | +0.0        | +0.0       | 90.1           | 94.0           | -3.9         | Vert  |
|   | Quasi Peak  |              | +0.0                                |             |             |             |            |                |                |              |       |
| 5 | 2709.443    | 44.9         | +10.0                               | -39.6       | +2.6        | +2.6        | +0.0       | 49.6           | 54.0           | -4.4         | Vert  |
|   | Average     |              | +29.1                               |             |             |             |            |                |                |              |       |
| 6 | 884.103     | 38.6         | +22.8                               | -27.6       | +7.3        | +0.0        | +0.0       | 41.1           | 46.0           | -4.9         | Horiz |
|   | Quasi Peak  |              | +0.0                                |             |             |             |            |                |                |              |       |
| 7 | 174.086     | 49.2         | +13.2                               | -26.8       | +2.8        | +0.0        | +0.0       | 38.4           | 43.5           | -5.1         | Vert  |
|   | Quasi Peak  |              | +0.0                                |             |             |             |            |                |                |              |       |

|    |            |      |       |       |      |      |      |      |      |       |       |
|----|------------|------|-------|-------|------|------|------|------|------|-------|-------|
| 8  | 126.312    | 51.6 | +11.3 | -27.0 | +2.3 | +0.0 | +0.0 | 38.2 | 43.5 | -5.3  | Vert  |
|    | Quasi Peak |      | +0.0  |       |      |      |      |      |      |       |       |
| 9  | 2257.866   | 45.0 | +10.0 | +27.5 | +2.4 | +2.3 | +0.0 | 47.8 | 54.0 | -6.2  | Vert  |
|    | Average    |      | -39.4 |       |      |      |      |      |      |       |       |
| 10 | 3161.021   | 40.4 | +10.0 | -39.8 | +2.9 | +2.9 | +0.0 | 47.3 | 54.0 | -6.7  | Horiz |
|    | Average    |      | +30.9 |       |      |      |      |      |      |       |       |
| 11 | 903.154    | 84.3 | +23.1 | -27.6 | +7.4 | +0.0 | +0.0 | 87.2 | 94.0 | -6.8  | Vert  |
|    | Quasi Peak |      | +0.0  |       |      |      |      |      |      |       |       |
| 12 | 941.307    | 35.4 | +23.4 | -27.4 | +7.6 | +0.0 | +0.0 | 39.0 | 46.0 | -7.0  | Vert  |
|    |            |      | +0.0  |       |      |      |      |      |      |       |       |
| 13 | 200.017    | 45.0 | +14.7 | -26.6 | +3.1 | +0.0 | +0.0 | 36.2 | 43.5 | -7.3  | Vert  |
|    | Quasi Peak |      | +0.0  |       |      |      |      |      |      |       |       |
| 14 | 4515.740   | 36.6 | +10.0 | -39.4 | +3.5 | +3.5 | +0.0 | 46.6 | 54.0 | -7.4  | Vert  |
|    | Average    |      | +32.4 |       |      |      |      |      |      |       |       |
| 15 | 4515.742   | 36.5 | +10.0 | -39.4 | +3.5 | +3.5 | +0.0 | 46.5 | 54.0 | -7.5  | Horiz |
|    | Average    |      | +32.4 |       |      |      |      |      |      |       |       |
| 16 | 77.397     | 48.5 | +9.2  | -27.1 | +1.6 | +0.0 | +0.0 | 32.3 | 40.0 | -7.7  | Vert  |
|    | Quasi Peak |      | +0.0  |       |      |      |      |      |      |       |       |
| 17 | 470.627    | 42.4 | +16.8 | -27.7 | +4.8 | +0.0 | +0.0 | 36.3 | 46.0 | -9.7  | Vert  |
|    |            |      | +0.0  |       |      |      |      |      |      |       |       |
| 18 | 451.600    | 39.4 | +16.5 | -27.6 | +4.9 | +0.0 | +0.0 | 33.2 | 46.0 | -12.8 | Vert  |
|    |            |      | +0.0  |       |      |      |      |      |      |       |       |
| 19 | 3161.021   | 34.0 | +10.0 | -39.8 | +2.9 | +2.9 | +0.0 | 40.8 | 54.0 | -13.2 | Vert  |
|    | Average    |      | +30.9 |       |      |      |      |      |      |       |       |

Test Location: CKC LABORATORIES INC. • 22105 Wilson River Hwy, Site A • Tillamook, Oregon 97141  
• (800) 500-4EMC

Customer: **Microsoft Corporation**  
Specification: **FCC B QP**  
Test Type: **Conducted Emissions**  
Equipment: **900 MHz Cordless Phone**  
Manufacturer: **Microsoft**  
Model: **MP-900 ( Borg )**  
S/N: **JR020998A**

Date: Feb-13-98  
Time: 13:31  
Sequence#: 7  
Tested By: Mike Wilkinson

#### Equipment Under Test

| Function  | Manufacturer | Model #   | S/N       |
|-----------|--------------|-----------|-----------|
| Base Unit | Microsoft    | MP-900 BS | JR020998A |
| Handset   | Microsoft    | MP-900 HS | JR020998B |

#### Support Devices:

| Function | Manufacturer | Model #   | S/N         |
|----------|--------------|-----------|-------------|
| Computer | Dell         | XPSD266   | BPZS5       |
| Monitor  | IBM          | P70       | 22-03652    |
| Keyboard | Dell         | QuiteKeys | 81730       |
| Mouse    | Microsoft    | Maui      | JR120197A   |
| Printer  | HP           | C3941A    | JPCD1020090 |

#### Test Conditions / Notes:

Borg Unit operating in Telephone answering machine mode using Drvtest. The base unit uses 8 MHz clock. The RJ11 (J500) is connected to an active remote CO line. The printer is connected and is powered on. Handset TX freq. is 903 MHz and Base TX freq. is 926.9 MHz. The Handset is in the side position with its left side on the test table. The temperature was 56°F and the humidity was 78%. Base Unit connected to the LISN

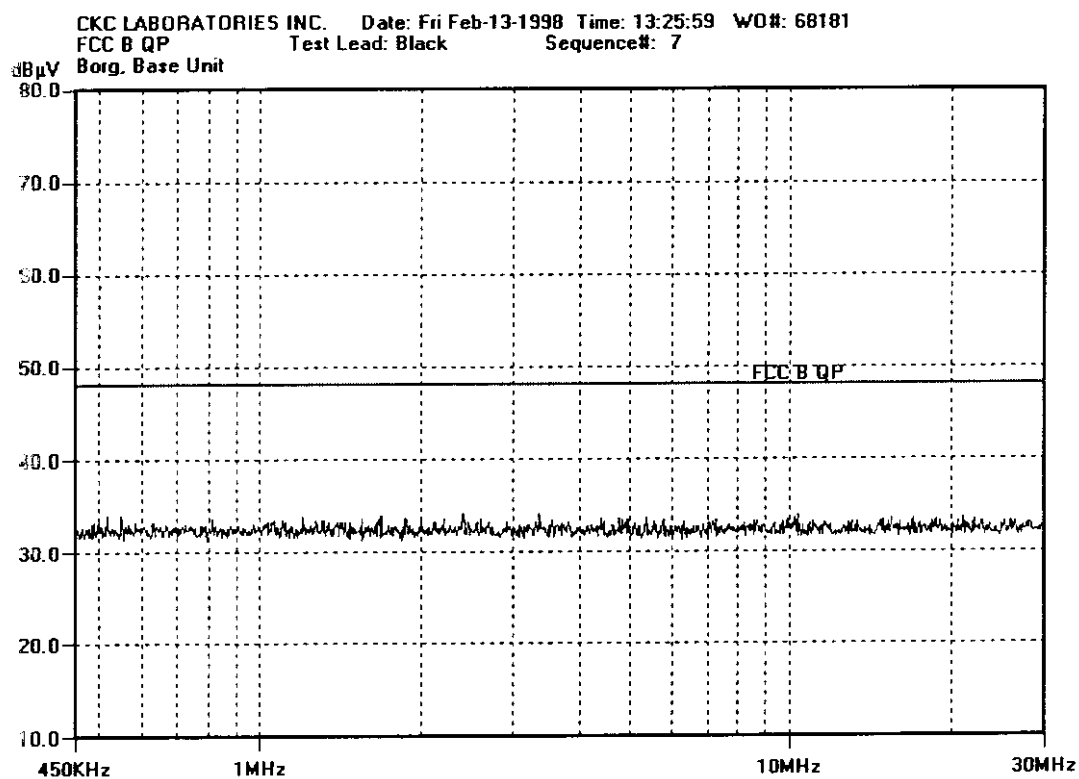
#### Measurement Data:

Sorted by Margin

Test Lead: Black

| # | Freq     | Rdng<br>dBμV | dB | dB | dB | dB | Dist<br>dB | Corr<br>dBμV | Spec<br>dBμV | Margin<br>dB | Polar |
|---|----------|--------------|----|----|----|----|------------|--------------|--------------|--------------|-------|
| 1 | 3.370M   | 34.1         |    |    |    |    | +0.0       | 34.1         | 48.0         | -13.9        | Black |
| 2 | 2.409M   | 34.0         |    |    |    |    | +0.0       | 34.0         | 48.0         | -14.0        | Black |
| 3 | 10.403M  | 33.9         |    |    |    |    | +0.0       | 33.9         | 48.0         | -14.1        | Black |
| 4 | 1.686M   | 33.9         |    |    |    |    | +0.0       | 33.9         | 48.0         | -14.1        | Black |
| 5 | 550.853k | 33.8         |    |    |    |    | +0.0       | 33.8         | 48.0         | -14.2        | Black |
| 6 | 517.488k | 33.8         |    |    |    |    | +0.0       | 33.8         | 48.0         | -14.2        | Black |
| 7 | 1.670M   | 33.7         |    |    |    |    | +0.0       | 33.7         | 48.0         | -14.3        | Black |

|    |          |      |      |      |      |       |       |
|----|----------|------|------|------|------|-------|-------|
| 8  | 1.204M   | 33.7 | +0.0 | 33.7 | 48.0 | -14.3 | Black |
| 9  | 21.097M  | 33.6 | +0.0 | 33.6 | 48.0 | -14.4 | Black |
| 10 | 15.512M  | 33.6 | +0.0 | 33.6 | 48.0 | -14.4 | Black |
| 11 | 10.258M  | 33.6 | +0.0 | 33.6 | 48.0 | -14.4 | Black |
| 12 | 2.211M   | 33.6 | +0.0 | 33.6 | 48.0 | -14.4 | Black |
| 13 | 1.872M   | 33.6 | +0.0 | 33.6 | 48.0 | -14.4 | Black |
| 14 | 16.990M  | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | Black |
| 15 | 5.369M   | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | Black |
| 16 | 4.777M   | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | Black |
| 17 | 4.407M   | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | Black |
| 18 | 2.604M   | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | Black |
| 19 | 1.547M   | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | Black |
| 20 | 813.223k | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | Black |
| 21 | 22.168M  | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | Black |
| 22 | 18.806M  | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | Black |
| 23 | 15.094M  | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | Black |
| 24 | 4.820M   | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | Black |
| 25 | 1.059M   | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | Black |
| 26 | 3.560M   | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |
| 27 | 1.994M   | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |
| 28 | 1.310M   | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |
| 29 | 1.269M   | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |
| 30 | 1.101M   | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |



Test Location: CKC LABORATORIES INC. • 22105 Wilson River Hwy, Site A • Tillamook, Oregon 97141  
 • (800) 500-4EMC

Customer: Microsoft Corporation

Date: Feb-13-98

Specification: FCC B QP

Time: 13:39

Test Type: Conducted Emissions

Sequence#: 8

Equipment: 900 MHz Cordless Phone

Manufacturer: Microsoft

Tested By: Mike Wilkinson

Model: MP-900 ( Borg )

S/N: JR020998A

#### Equipment Under Test

| Function  | Manufacturer | Model #   | S/N       |
|-----------|--------------|-----------|-----------|
| Base Unit | Microsoft    | MP-900 BS | JR020998A |
| Handset   | Microsoft    | MP-900 HS | JR020998B |

#### Support Devices:

| Function | Manufacturer | Model #   | S/N         |
|----------|--------------|-----------|-------------|
| Computer | Dell         | XPSP266   | BPZS5       |
| Monitor  | IBM          | P70       | 22-03652    |
| Keyboard | Dell         | QuiteKeys | 81730       |
| Mouse    | Microsoft    | Maui      | JR120197A   |
| Printer  | HP           | C3941A    | JPCD1020090 |

#### Test Conditions / Notes:

Borg Unit operating in Telephone answering machine mode using Drvtest. The base unit uses 8MHz clock. The RJ11 (J500) is connected to an active remote CO line. The printer is connected and power on. Handset TX freq. is 903 MHz and Base TX freq. is 926.9 MHz. The Handset is in the side position with it's left on the test table. The temperature was 56°F and the humidity was 78%. Base Unit connected to the LISN

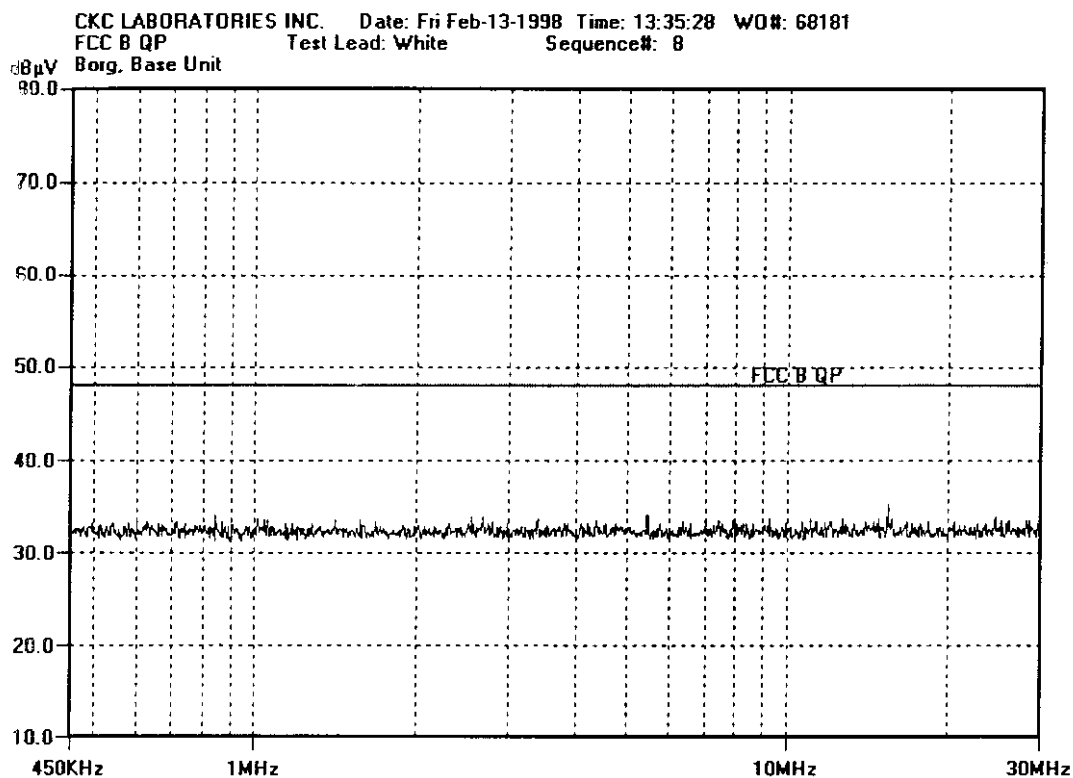
#### Measurement Data:

Sorted by Margin

Test Lead: White

| # | Freq     | Rdng<br>dBμV | dB | dB | dB | dB | Dist<br>dB | Corr<br>dBμV | Spec<br>dBμV | Margin<br>dB | Polar |
|---|----------|--------------|----|----|----|----|------------|--------------|--------------|--------------|-------|
| 1 | 15.496M  | 35.2         |    |    |    |    | +0.0       | 35.2         | 48.0         | -12.8        | White |
| 2 | 5.461M   | 34.1         |    |    |    |    | +0.0       | 34.1         | 48.0         | -13.9        | White |
| 3 | 842.734k | 34.0         |    |    |    |    | +0.0       | 34.0         | 48.0         | -14.0        | White |
| 4 | 2.675M   | 33.9         |    |    |    |    | +0.0       | 33.9         | 48.0         | -14.1        | White |
| 5 | 2.547M   | 33.9         |    |    |    |    | +0.0       | 33.9         | 48.0         | -14.1        | White |
| 6 | 24.608M  | 33.8         |    |    |    |    | +0.0       | 33.8         | 48.0         | -14.2        | White |
| 7 | 15.809M  | 33.7         |    |    |    |    | +0.0       | 33.7         | 48.0         | -14.3        | White |

|    |          |      |      |      |      |       |       |
|----|----------|------|------|------|------|-------|-------|
| 8  | 14.950M  | 33.7 | +0.0 | 33.7 | 48.0 | -14.3 | White |
| 9  | 12.764M  | 33.7 | +0.0 | 33.7 | 48.0 | -14.3 | White |
| 10 | 11.077M  | 33.7 | +0.0 | 33.7 | 48.0 | -14.3 | White |
| 11 | 9.260M   | 33.7 | +0.0 | 33.7 | 48.0 | -14.3 | White |
| 12 | 3.403M   | 33.7 | +0.0 | 33.7 | 48.0 | -14.3 | White |
| 13 | 1.010M   | 33.7 | +0.0 | 33.7 | 48.0 | -14.3 | White |
| 14 | 28.045M  | 33.6 | +0.0 | 33.6 | 48.0 | -14.4 | White |
| 15 | 26.103M  | 33.6 | +0.0 | 33.6 | 48.0 | -14.4 | White |
| 16 | 25.231M  | 33.6 | +0.0 | 33.6 | 48.0 | -14.4 | White |
| 17 | 7.925M   | 33.6 | +0.0 | 33.6 | 48.0 | -14.4 | White |
| 18 | 7.454M   | 33.6 | +0.0 | 33.6 | 48.0 | -14.4 | White |
| 19 | 4.365M   | 33.6 | +0.0 | 33.6 | 48.0 | -14.4 | White |
| 20 | 28.493M  | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | White |
| 21 | 1.575M   | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | White |
| 22 | 1.418M   | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | White |
| 23 | 1.056M   | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | White |
| 24 | 1.044M   | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | White |
| 25 | 12.082M  | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | White |
| 26 | 11.776M  | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | White |
| 27 | 6.355M   | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | White |
| 28 | 2.779M   | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | White |
| 29 | 866.475k | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | White |
| 30 | 713.887k | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | White |



Test Location: CKC LABORATORIES INC. • 22105 Wilson River Hwy, Site A • Tillamook, Oregon 97141  
• (800) 500-4EMC

Customer: Microsoft Corporation  
Specification: FCC B QP  
Test Type: Conducted Emissions  
Equipment: 900 MHz Cordless Phone  
Manufacturer: Microsoft  
Model: MP-900 ( Borg )  
S/N: JR020998A

Date: Feb-13-98  
Time: 14:15  
Sequence#: 10  
Tested By: Mike Wilkinson

**Equipment Under Test**

| Function  | Manufacturer | Model #   | S/N       |
|-----------|--------------|-----------|-----------|
| Base Unit | Microsoft    | MP-900 BS | JR020998A |
| Handset   | Microsoft    | MP-900 HS | JR020998B |

**Support Devices:**

| Function | Manufacturer | Model #   | S/N         |
|----------|--------------|-----------|-------------|
| Computer | Dell         | XPSP266   | BPZS5       |
| Monitor  | IBM          | P70       | 22-03652    |
| Keyboard | Dell         | QuiteKeys | 81730       |
| Mouse    | Microsoft    | Maui      | JR120197A   |
| Printer  | HP           | C3941A    | JPCD1020090 |

**Test Conditions / Notes:**

Borg Unit operating in Telephone answering machine mode using Drvtest. The base unit uses 8 MHz clock. The RJ11 (J500) is connected to an active remote CO line. The printer is connected and is powered on. Handset TX freq. is 903 MHz and Base TX freq. is 926.9 MHz. The Handset is in the side position with its left side on the test table. The temperature was 56°F and the humidity was 78%. Handset Charger connected to the LISN

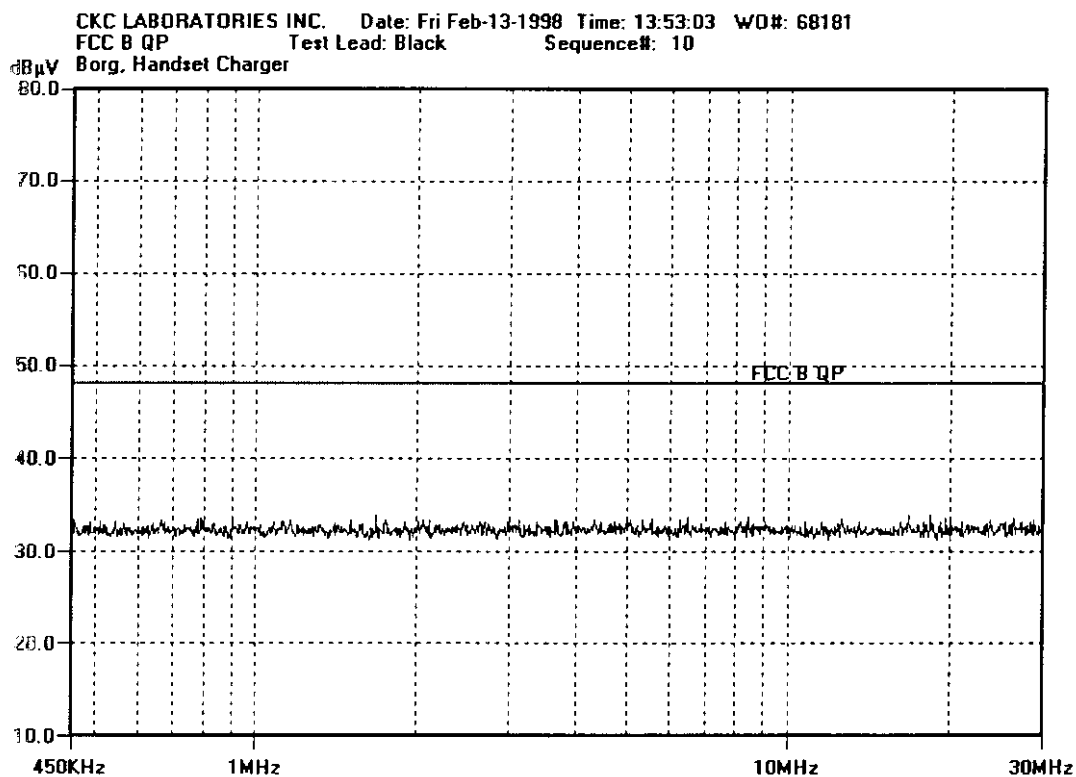
**Measurement Data:**

Sorted by Margin

Test Lead: Black

| # | Freq    | Rdng<br>dBμV | dB | dB | dB | dB | Dist<br>dB | Corr<br>dBμV | Spec<br>dBμV | Margin<br>dB | Polar |
|---|---------|--------------|----|----|----|----|------------|--------------|--------------|--------------|-------|
| 1 | 16.829M | 33.9         |    |    |    |    | +0.0       | 33.9         | 48.0         | -14.1        | Black |
| 2 | 18.507M | 33.8         |    |    |    |    | +0.0       | 33.8         | 48.0         | -14.2        | Black |
| 3 | 1.676M  | 33.8         |    |    |    |    | +0.0       | 33.8         | 48.0         | -14.2        | Black |
| 4 | 8.440M  | 33.7         |    |    |    |    | +0.0       | 33.7         | 48.0         | -14.3        | Black |
| 5 | 6.468M  | 33.7         |    |    |    |    | +0.0       | 33.7         | 48.0         | -14.3        | Black |
| 6 | 5.544M  | 33.6         |    |    |    |    | +0.0       | 33.6         | 48.0         | -14.4        | Black |
| 7 | 26.302M | 33.5         |    |    |    |    | +0.0       | 33.5         | 48.0         | -14.5        | Black |

|    |          |      |      |      |      |       |       |
|----|----------|------|------|------|------|-------|-------|
| 8  | 19.752M  | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | Black |
| 9  | 12.572M  | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | Black |
| 10 | 789.716k | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | Black |
| 11 | 28.767M  | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | Black |
| 12 | 20.126M  | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | Black |
| 13 | 5.343M   | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | Black |
| 14 | 4.327M   | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | Black |
| 15 | 2.061M   | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | Black |
| 16 | 1.745M   | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | Black |
| 17 | 778.342k | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | Black |
| 18 | 457.583k | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | Black |
| 19 | 23.961M  | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |
| 20 | 6.268M   | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |
| 21 | 5.066M   | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |
| 22 | 5.000M   | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |
| 23 | 3.666M   | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |
| 24 | 3.133M   | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |
| 25 | 2.113M   | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |
| 26 | 1.505M   | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |
| 27 | 1.156M   | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |
| 28 | 666.114k | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | Black |
| 29 | 674.455k | 33.2 | +0.0 | 33.2 | 48.0 | -14.8 | Black |
| 30 | 511.422k | 33.2 | +0.0 | 33.2 | 48.0 | -14.8 | Black |



Test Location: CKC LABORATORIES INC. • 22105 Wilson River Hwy, Site A • Tillamook, Oregon 97141  
• (800) 500-4EMC

Customer: Microsoft Corporation  
Specification: FCC B QP  
Test Type: Conducted Emissions  
Equipment: 900 MHz Cordless Phone  
Manufacturer: Microsoft  
Model: MP-900 ( Borg )  
S/N: JR020998A

Date: Feb-13-98  
Time: 14:16  
Sequence#: 9  
Tested By: Mike Wilkinson

#### Equipment Under Test

| Function  | Manufacturer | Model #   | S/N       |
|-----------|--------------|-----------|-----------|
| Base Unit | Microsoft    | MP-900 BS | JR020998A |
| Handset   | Microsoft    | MP-900 HS | JR020998B |

#### Support Devices:

| Function | Manufacturer | Model #   | S/N         |
|----------|--------------|-----------|-------------|
| Computer | Dell         | XPSD266   | BPZS5       |
| Monitor  | IBM          | P70       | 22-03652    |
| Keyboard | Dell         | QuiteKeys | 81730       |
| Mouse    | Microsoft    | Maui      | JR120197A   |
| Printer  | HP           | C3941A    | JPCD1020090 |

#### Test Conditions / Notes:

Borg Unit operating in Telephone answering machine mode using Drvtest. The base unit uses 8 MHz clock. The RJ11 (J500) is connected to an active remote CO line. The printer is connected and is powered on. Handset TX freq. is 903 MHz and Base TX freq. is 926.9 MHz. The Handset is in the side position with its left side on the test table. The temperature was 56°F and the humidity was 78%. Handset Charger connected to the LISN

#### Measurement Data:

Sorted by Margin

Test Lead: White

| # | Freq     | Rdng<br>dBμV | dB | dB | dB | dB | Dist<br>dB | Corr<br>dBμV | Spec<br>dBμV | Margin<br>dB | Polar |
|---|----------|--------------|----|----|----|----|------------|--------------|--------------|--------------|-------|
| 1 | 24.359M  | 34.3         |    |    |    |    | +0.0       | 34.3         | 48.0         | -13.7        | White |
| 2 | 2.460M   | 34.0         |    |    |    |    | +0.0       | 34.0         | 48.0         | -14.0        | White |
| 3 | 595.593k | 34.0         |    |    |    |    | +0.0       | 34.0         | 48.0         | -14.0        | White |
| 4 | 9.631M   | 33.8         |    |    |    |    | +0.0       | 33.8         | 48.0         | -14.2        | White |
| 5 | 8.789M   | 33.8         |    |    |    |    | +0.0       | 33.8         | 48.0         | -14.2        | White |
| 6 | 818.531k | 33.8         |    |    |    |    | +0.0       | 33.8         | 48.0         | -14.2        | White |
| 7 | 534.171k | 33.8         |    |    |    |    | +0.0       | 33.8         | 48.0         | -14.2        | White |

|    |          |      |      |      |      |       |       |
|----|----------|------|------|------|------|-------|-------|
| 8  | 8.706M   | 33.7 | +0.0 | 33.7 | 48.0 | -14.3 | White |
| 9  | 1.724M   | 33.7 | +0.0 | 33.7 | 48.0 | -14.3 | White |
| 10 | 4.924M   | 33.6 | +0.0 | 33.6 | 48.0 | -14.4 | White |
| 11 | 2.185M   | 33.6 | +0.0 | 33.6 | 48.0 | -14.4 | White |
| 12 | 456.445k | 33.6 | +0.0 | 33.6 | 48.0 | -14.4 | White |
| 13 | 12.989M  | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | White |
| 14 | 8.911M   | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | White |
| 15 | 6.425M   | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | White |
| 16 | 2.038M   | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | White |
| 17 | 1.714M   | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | White |
| 18 | 1.285M   | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | White |
| 19 | 874.855k | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | White |
| 20 | 714.645k | 33.5 | +0.0 | 33.5 | 48.0 | -14.5 | White |
| 21 | 26.302M  | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | White |
| 22 | 12.282M  | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | White |
| 23 | 3.825M   | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | White |
| 24 | 3.304M   | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | White |
| 25 | 1.161M   | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | White |
| 26 | 1.001M   | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | White |
| 27 | 800.332k | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | White |
| 28 | 687.346k | 33.4 | +0.0 | 33.4 | 48.0 | -14.6 | White |
| 29 | 674.834k | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | White |
| 30 | 516.730k | 33.3 | +0.0 | 33.3 | 48.0 | -14.7 | White |

