

EXHIBIT N – Frequency Stability

FCC ID# NMEAVTS1030

NORTHWEST

EMC**EMISSIONS DATA SHEET**Rev BETA
01/30/01

EUT:	Alarm View	Work Order:	DATC0007
Serial Number:	102037	Date:	05/31/01
Customer:	Data Critical Corporation	Temperature:	75 degrees F
Attendees:	N/A	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	N/A
		Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 2.1055 & 90.213	Year:	Most Current	Method:	TIA/EIA - 603	Year:	1993
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SAMPLE CALCULATIONS**COMMENTS****EUT OPERATING MODES**

Transmitting mid band with no modulation (CW mode).

DEVIATIONS FROM TEST STANDARD

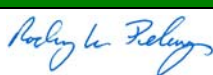
None

REQUIREMENTS

Minimum frequency stability of 5.0 parts per million (ppm) for variations of temperature and supply voltage (AC and battery power)

RESULTS**MINIMUM FREQUENCY STABILITY**

Pass 1.00 ppm

SIGNATURETested By: **DESCRIPTION OF TEST****Frequency Stability**

Frequency Stability with Variation of Ambient Temperature (Primary Supply = 120V, 60Hz)

Temp (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
-30	457.037500	457.037955	1.00	5
-20	457.037500	457.037915	0.91	5
-10	457.037500	457.037847	0.76	5
0	457.037500	457.037715	0.47	5
10	457.037500	457.037575	0.16	5
20	457.037500	457.037475	0.05	5
30	457.037500	457.037375	0.27	5
40	457.037500	457.037251	0.54	5
50	457.037500	457.037157	0.75	5

Frequency Stability with Variation of Primary Supply Voltage (Ambient Temperature = 25°C)

Voltage (VAC, 60Hz)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
138 (115%)	457.037500	457.037325	0.38	5
132 (110%)	457.037500	457.037335	0.36	5
126 (105%)	457.037500	457.037340	0.35	5
120 (100%)	457.037500	457.037345	0.34	5
114 (95%)	457.037500	457.037340	0.35	5
108 (90%)	457.037500	457.037330	0.37	5
102 (85%)	457.037500	457.037325	0.38	5

Frequency Stability with Variation of Battery Voltage (Ambient Temperature = 25°C)

Voltage (VDC)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
12.42 (115%)	457.037500	457.037720	0.48	5
11.88 (110%)	457.037500	457.037640	0.31	5
11.34 (105%)	457.037500	457.037640	0.31	5
10.8 (100%)	457.037500	457.037620	0.26	5
10.26 (95%)	457.037500	457.037600	0.22	5
9.72 (90%)	457.037500	457.037600	0.22	5
9.18 (85%)	457.037500	457.037560	0.13	5
9.25 (end point)	457.037500	457.037520	0.04	5