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April 8, 2024

Tracy Irving Bio-Energy Development Memphis, TN

Tracy,

The following is a summary of findings from the March 2024 vibration survey that was performed on March 20, 2024.

QualiTest® uses a four step rating system for defects.

**<u>CLASS I</u>**: Defect is present, but effect on reliability is not clear; no immediate action is required. Continue to normally monitor.

**<u>CLASS II</u>**: Defect (s) present that may cause problem in long term (2-6 months). Repair during normal maintenance scheduling. Continue to monitor.

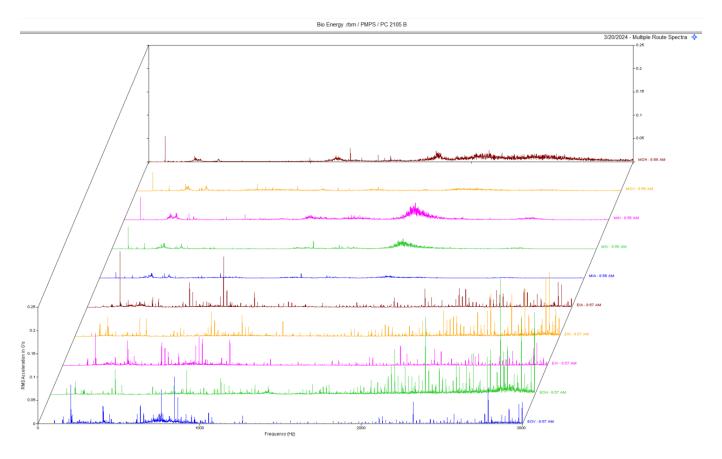
**<u>CLASS III</u>**: Defect (s) present that may cause failure in short term (less than 2 months). This should be addressed as soon as practical, with a high maintenance priority. Increase monitoring frequency.

**<u>CLASS IV</u>**; Defect (s) present that makes continued reliability unpredictable, and possibility of secondary damage is high. Repairs should be made ASAP. An unscheduled shutdown should be considered for repairs

*Hi-Speed* Industrial Service tests and inspects industrial machinery and equipment and makes recommendations concerning maintenance and repairs based on its experience in the field of industrial repair and maintenance. The information contained herein is provided as an opinion only, not as a guaranty or warranty of the matters discussed herein.

# **Defect Summary**

### PC 2105 B CLASS II



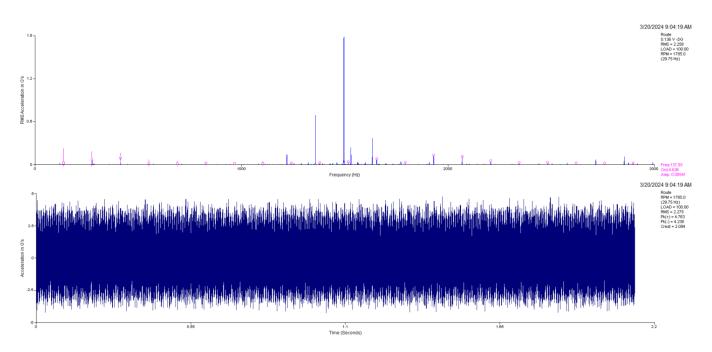
### **Observation:**

Data above is the multi-point spectra of the motor and pump. Pump data shows non-synchronous peaks throughout the pump spectra.

## **Recommendation:**

Pump data shows defects in pump bearings. Replace pump as scheduling allows.

### PC 2205 B CLASS II



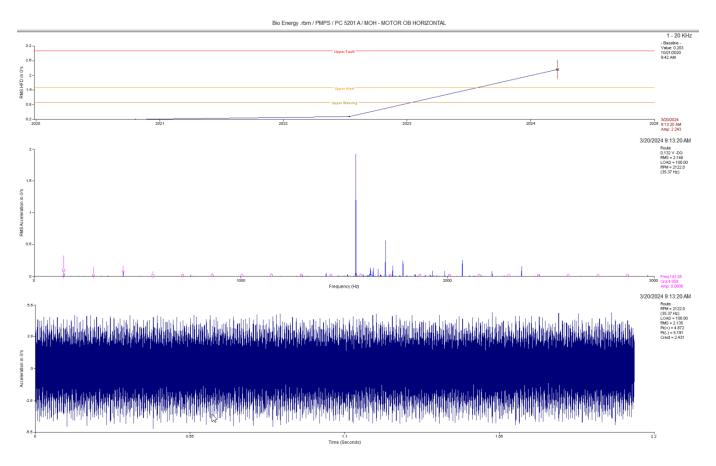
#### **Observation:**

Data above motor outboard horizontal. Peaks marked in spectrum are non-synchronous peaks that are harmonics of 4.36 orders of rpm. There is also some 120 Hz. vibration present as well.

#### **Recommendation:**

Motor may have some soft foot causing an air gap issue. Data also suggests bearing issues in the motor. Check motor for soft foot and bearing issues as scheduling allows.

# <u>PC 5201 A CLASS II</u>



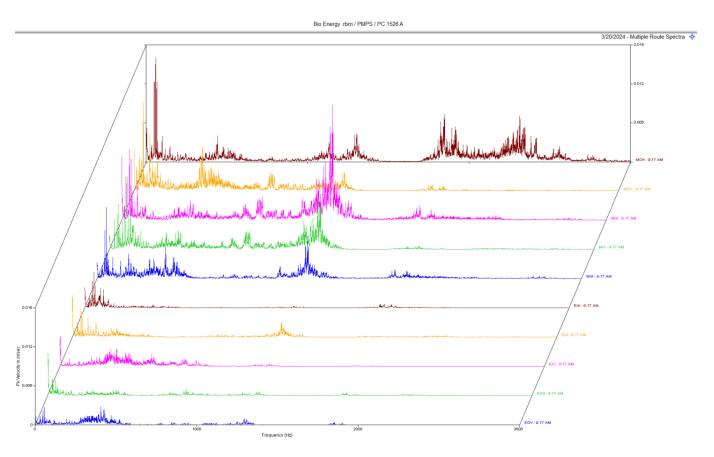
#### **Observation:**

Data above motor outboard horizontal. Peaks marked in spectrum are non-synchronous peaks that are harmonics of 4.06 orders of rpm. There is also some 120 Hz. vibration present as well.

#### **Recommendation:**

Motor may have some soft foot causing an air gap issue. Data also suggests bearing issues in the motor. Motor may also have some electrical issues. Check motor for soft foot and bearing issues as scheduling allows.

### PC 1526A CLASS II



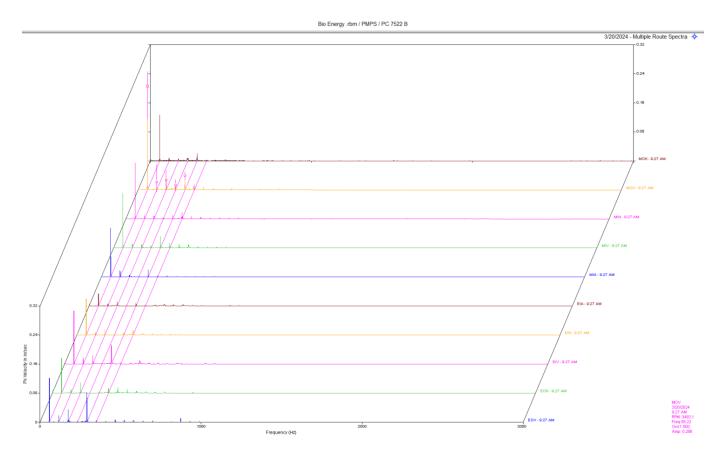
## **Observation:**

Multi-point spectra of the motor and pump shows a significant amount of non-synchronous vibration according to motor data.

#### **Recommendation:**

The non-synchronous peaks are very likely race defect frequencies of the motor bearings. This is our second collection of this motor; therefore, severity is unclear. We recommend preparing to swap the motor in the next few months.

# PC 7522 B CLASS II



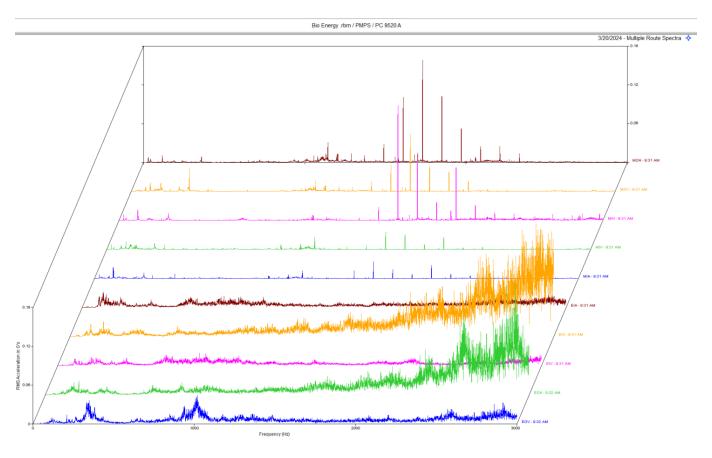
### **Observation:**

Multi-point spectra of the motor and pump shows 1-5 x rpm vibration present.

### **Recommendation:**

Data suggests possible coupling wear. Ensure coupling is in good shape and motor is properly aligned.

# PC 9520 B CLASS II



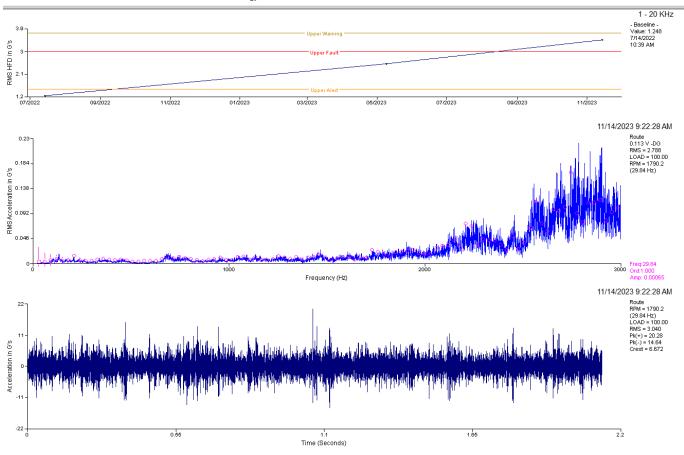
#### **Observation:**

Motor and pump spectra above show a significant amount of random noise in pump data.

#### **Recommendation:**

Pump data indicates cavitation which may be due to impeller wear and or pump flow issues. Ensure pump to operating at normal flow parameters. If parameters are good, then the pump may need attention soon.

### PC 9520 A CLASS II



Bio Energy .rbm / PMPS / PC 9520 A / EIH - EQUIPMENT IB HORIZONTAL

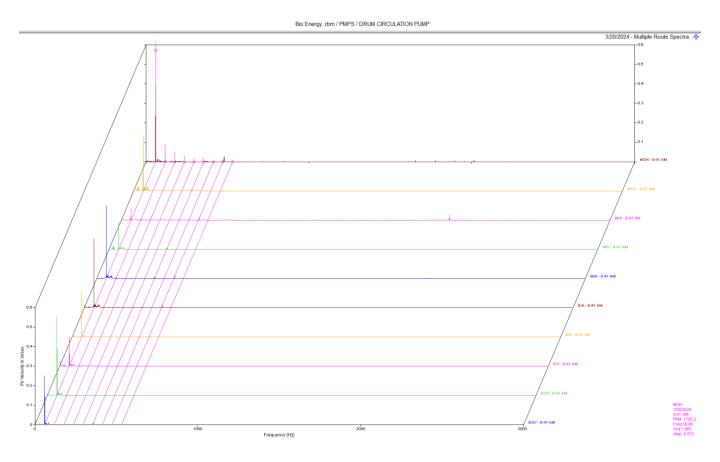
#### **Observation:**

Data above is the pump inboard horizontal. Spectral data shows high frequency non-synchronous vibration. Waveform data shows impacting with high peak to peak amplitude.

#### **Recommendation:**

Pump data either indicates internal defects are present in the pump and or pump has significant amounts of cavitation. Inspect pump soon.

## Drum Circulation Pump CLASS III



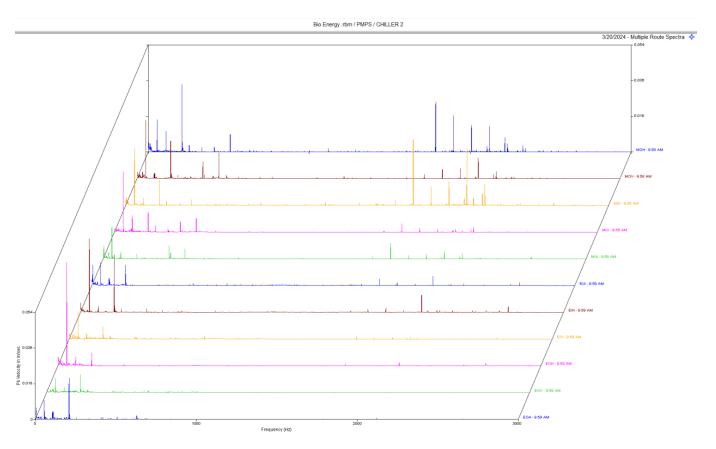
#### **Observation:**

Multi-point spectra above are the motor and pump. Data shows a dominant 1 x rpm vibration in motor and pump.

#### **Recommendation:**

Data suggests a possible coupling and or alignment issue. It is recommended to inspect couplings for wear and misalignment and ensure all fasteners are tight. Ensure motor/pump base is properly anchored down and does not have soft foot condition.

## Chiller 2 CLASS I



### **Observation:**

Multi point spectra shows some low level non-synchronous peaks in motor outboard. Both outboard and inboard motor data show some electrical vibrations that may be associated with rotor eccentricity/ air-gap variation in motor.

#### **Recommendation:**

The motor has evidence of bearing and electrical vibrations, but amplitudes are very low. We will continue to monitor this closely.

Database: Bio Energy .rbm Station: Pumps Route No. 1: 1ST HALF

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
4125 A - PC 4125 A		)-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.017 In/Sec	.120 G-s
MOV	.021 In/Sec	.091 G-s
MIH	.018 In/Sec	.077 G-s
MIV	.017 In/Sec	.031 G-s
MIA		
EIA	.013 In/Sec .029 In/Sec .043 In/Sec	.147 G-s
EIH	.043 In/Sec	.624 G-s
EIV	.036 In/Sec	
EOH	.037 In/Sec	.535 G-s
EOV	.030 In/Sec	.065 G-s
FOA	.050 11/560	.005 G-S
2106 - PC 2106	-	)-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.016 In/Sec	.139 G-s
MOV	.022 In/Sec	.070 G-s
MIH	.020 In/Sec .027 In/Sec	.360 G-s
MIV	.027 In/Sec	.064 G-s
MIA	020 In/Sec	055 G-s
EIA	.033 In/Sec	.081 G-s
EIH	.054 In/Sec	.297 G-s
EIV	.036 In/Sec	
EOH	.044 In/Sec	.360 G-s
EOV	.044 In/Sec	.055 G-s
201		
7210 в – РС 7210 в	(20	)-Mar-24)
	OVERALL LEVEL .041 In/Sec	1 - 20 KHz
MOH	.041 In/Sec	.277 G-s
MOV	034 Tn/Sec	056 G-s
MIH	.046 In/Sec	.320 G-s
MIV	.043 In/Sec	.051 G-s
MIA	.039 In/Sec	
EIA	.059 In/Sec	.522 G-s
EIH	.061 In/Sec	.842 G-s
EIV	.055 In/Sec	.241 G-s
EOH	.082 In/Sec	1 906 C-2
EON	.061 In/Sec	.418 G-s
EOV	.001 11/360	.410 G-S
7240 A - PC 7240 A	(20	)-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.040 In/Sec	.121 G-s
MOV	.037 In/Sec	.040 G-s
MIH	.040 In/Sec	.102 G-s
MIV	.033 In/Sec	.069 G-s
MIA	.015 In/Sec	.068 G-s
EIA	.025 In/Sec	.130 G-s
EIH	.023 In/Sec	.319 G-s
EIV	.030 In/Sec	.058 G-s
EOH	.018 In/Sec	.536 G-s
EON	.023 In/Sec	.089 G-s
201	.025 11,500	.005 0 5
7215 B - PC 7215 B	(20	)-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.076 In/Sec	.144 G-s
MOV	.058 In/Sec	.022 G-s
MIH	.074 In/Sec	.187 G-s
MIV	.069 In/Sec	.028 G-s
MIA	.036 In/Sec	.027 G-s
EIA	.125 In/Sec	.317 G-s
	•	

EIH	.118 In/Sec	.768 G-s
EIV	.083 In/Sec	.278 G-s
EOH	.078 In/Sec	.730 G-s
EOV	.063 In/Sec	.244 G-s
6110 A - PC 6110 A	(20	-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
МОН	.022 In/Sec	.141 G-s
MOV	.016 In/Sec	.075 G-s
MIH	.023 In/Sec	.179 G-s
MIV	.018 In/Sec	.041 G-s
MIA	.018 In/Sec	.049 G-s
EIA	.025 In/Sec	.039 G-s
EIH	.031 In/Sec	.101 G-s
EIV	.019 In/Sec	.064 G-s
EOH	.026 In/Sec	.183 G-s
EOV	.021 In/Sec	.039 G-s
6120 A - PC-6120 A		-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.028 In/Sec	.138 G-s
MOV	.023 In/Sec	.120 G-s
MIH	.025 In/Sec	.141 G-s
MIV	.016 In/Sec	.044 G-s
MIA	.011 In/Sec	.048 G-s
EIA	.013 In/Sec	.046 G-s
EIH	.028 In/Sec	.137 G-s
EIV	.019 In/Sec	.075 G-s
EOH	.024 In/Sec	.262 G-s
EOV	.029 In/Sec	.080 G-s
2105 B - PC 2105 B	(20	-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
МОН	.056 In/Sec	.702 G-s
MOV	.040 In/Sec	.197 G-s
MIH	.054 In/Sec	.901 G-s
MIV	.049 In/Sec	.211 G-s
MIA	.019 In/Sec	.468 G-s
EIA	.060 In/Sec	.216 G-s
EIH	.040 In/Sec	.874 G-s
EIV	.045 In/Sec	.190 G-s
EOH	.040 In/Sec	.802 G-s
EOV	.051 In/Sec	.205 G-s
1621 A - PD 1621 A		-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.018 In/Sec	.106 G-s
MOV	.020 In/Sec .013 In/Sec	.042 G-s
MIH	· · · · · · · · · · · · · · · · · · ·	.078 G-s
MIV	.020 In/Sec	.027 G-s
MIA	.024 In/Sec	.030 G-s .042 G-s
EIA	.024 In/Sec	
EIH	.016 In/Sec .018 In/Sec	.309 G-s
EIV	.018 In/Sec .017 In/Sec	.043 G-s .083 G-s
EOH EOV	.022 In/Sec	.083 G-S .027 G-S
201	.022 111, 500	.027 6 5
4410 A - PC 4410 A	(20	-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.020 In/Sec	.084 G-s
MOV	.018 In/Sec	.045 G-s
MIH	.021 In/Sec	.177 G-s
MIV	.015 In/Sec	.036 G-s
MIA	.0076 In/Sec	.038 G-s
EIA	.017 In/Sec	.072 G-s
EIH	.026 In/Sec	.127 G-s
EIV	.016 In/Sec	.032 G-s
EOH	.027 In/Sec	.096 G-s
EOV	.024 In/Sec	.029 G-s

2115 B - PV 2115 B	(20	-Mar-24)
	OVERALL LEVEL	-
MOH	.176 In/Sec	.150 G-s
MOV	.257 In/Sec	.121 G-s
MIH	.047 In/Sec	.181 G-s
MIV	.156 In/Sec	
MIA EIA	.107 In/Sec .102 In/Sec	.025 G-s .152 G-s
EIH	.082 In/Sec	.206 G-s
EIV	.126 In/Sec	.090 G-s
EOH	.176 In/Sec	.325 G-s
EOV	.064 In/Sec	.216 G-s
	(0)	
7225 A - PC 7225 A	(20 OVERALL LEVEL	-Mar-24) 1 - 20 KHz
МОН	.161 In/Sec	
MOV	.134 In/Sec	.026 G-s
MIH	.053 In/Sec	.112 G-s
MIV	.048 In/Sec	.023 G-s
MIA	.067 In/Sec	
EIA	.065 In/Sec	.018 G-s
EIH	.047 In/Sec	.111 G-s
EIV	.036 In/Sec	.015 G-s .273 G-s
EOH EOV	.024 In/Sec .020 In/Sec	.027 G-s
201	.020 111/560	.027 6 5
2205 B - PC 2205 B	•	-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.136 In/Sec	
MOV MIH	.050 In/Sec .102 In/Sec	.695 G-s 2.012 G-s
MIN	.051 In/Sec	.389 G-s
MIA	.038 In/Sec	
EIA		.077 G-s
EIH	.064 In/Sec .087 In/Sec	
EIV	.072 In/Sec	
EOH	.053 In/Sec	.164 G-s
EOV	.049 In/Sec	.035 G-s
2510 A - PV 2510 A	(20	-Mar-24)
	OVERALL LEVEL	
MOH	.044 In/Sec	
MOV	.049 In/Sec .041 In/Sec	.199 G-s .598 G-s
MIH MIV	.033 In/Sec	.057 G-s
MIA	.022 In/Sec	.055 G-s
EIA	.050 In/Sec	.216 G-s
EIH	.048 In/Sec	.585 G-s
EIV	.052 In/Sec	.266 G-s
EOH	.041 In/Sec	.757 G-s
EOV	.049 In/Sec	.088 G-s
2310 A - PC 2310 A	(20	-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
МОН	.045 In/Sec	.705 G-s
MOV	.049 In/Sec	.183 G-s
MIH MIV	.041 In/Sec .034 In/Sec	.535 G-s .121 G-s
MIV MIA	.020 In/Sec	.085 G-s
EIA	.032 In/Sec	.149 G-s
EIH	.056 In/Sec	.743 G-s
EIV	.043 In/Sec	.229 G-s
EOH	.037 In/Sec	.626 G-s
EOV	.039 In/Sec	.193 G-s
4110 B - PC 4110 B	(20	-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.012 In/Sec	.066 G-s
MOV	.0061 In/Sec	.014 G-s
MIH	.014 In/Sec	.078 G-s

MIV	.0075 In/Sec	
MIA	.0054 In/Sec	.014 G-s
EIA	.026 In/Sec	.0081 G-s
EIH	.025 In/Sec	.021 G-s
EIV		.0046 G-s
EOH	.019 In/Sec	.022 G-s
EOV	.018 In/Sec	.0029 G-s
5201 A - PC 5201 A	(20	-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.132 In/Sec	2.243 G-s
MOV	.074 In/Sec	.644 G-s
MIH	.082 In/Sec	1.189 G-s
MIV	.045 In/Sec	.303 G-s
MIA	.033 In/Sec	.255 G-s
EIA	.036 In/Sec	.039 G-s
EIH	.074 In/Sec	.085 G-s
EIV	.044 In/Sec	.032 G-s
EOH	.071 In/Sec	.163 G-s
EOV	.035 In/Sec	.031 G-s
7501 A - PC 7501 A		-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.036 In/Sec	.592 G-s
MOV	.025 In/Sec	.183 G-s
MIH	.032 In/Sec	.510 G-s
MIV	.033 In/Sec	.112 G-s
MIA	.016 In/Sec	.209 G-s
EIA	.038 In/Sec	.040 G-s
EIH	.046 In/Sec	.084 G-s
EIV	.061 In/Sec	.021 G-s
EOH	.031 In/Sec	.062 G-s
EOV	.053 In/Sec	.017 G-s
7506 в – РС 7506 в	(20	-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
МОН	.016 In/Sec	.086 G-s
MOV	.013 In/Sec	.013 G-s
MIH	.016 In/Sec	.071 G-s
MIV	.010 In/Sec	.012 G-s
MIA	.0056 In/Sec	.015 G-s
EIA	.0095 In/Sec	.045 G-s
EIH	.010 In/Sec	.076 G-s
EIV	.0075 In/Sec	.062 G-s
EOH	.012 In/Sec	
EOV	.013 In/Sec	.046 G-s
1526 A - PC 1526 A	(20	-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.075 In/Sec	1.644 G-s
MOV	.053 In/Sec	.288 G-s
MIH	.084 In/Sec	
MIV	.056 In/Sec	.582 G-s
MIA	.044 In/Sec	.388 G-s
EIA	.017 In/Sec	.076 G-s
EIH	.021 In/Sec	.141 G-s
EIV	.024 In/Sec	.033 G-s
EOH	.017 In/Sec	.072 G-s
EOV	.018 In/Sec	.069 G-s
9901 B - PC 9901 B		-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.042 In/Sec	.192 G-s
MOV	.045 In/Sec	.055 G-s
MIH	.046 In/Sec	.334 G-s
MIV	.048 In/Sec	.035 G-s
MIA	.041 In/Sec	.051 G-s
EIA	.073 In/Sec	.354 G-s
EIH	.109 In/Sec	.628 G-s
EIV	.095 In/Sec	.233 G-s

EOH EOV	.088 In/Sec .092 In/Sec	
4401 A - PC 4401 A	OVERALL LEVEL	
MOH	.010 In/Sec	
MOV	.012 In/Sec	.020 G-s
MIH	.010 In/Sec	.105 G-s
MIV	.0088 In/Sec	.019 G-s
MIA	.0091 In/Sec	.022 G-s
EIA	.012 In/Sec	.048 G-s
EIH	.017 In/Sec	.180 G-s
EIV	.013 In/Sec	.023 G-s
EOH	.018 In/Sec	.145 G-s
EOV	.013 In/Sec	.054 G-s
2110 B DC 2110 B	(2)	Man 24)
3110 B - PC 3110 B	OVERALL LEVEL	)-Mar-24) 1 - 20 KHz
NOU		
MOH	.034 In/Sec	
MOV	.052 In/Sec .038 In/Sec	.075 G-s
MIH		.343 G-s
MIV	.055 In/Sec .041 In/Sec	
MIA	.041 IN/Sec	.091 G-s
EIA		.140 G-s
EIH	.071 In/Sec	
EIV	.034 In/Sec	.229 G-s
4101 A - PC 4101 A		)-Mar-24)
	OVERALL LEVEL	
MOH	.024 In/Sec	.130 G-s
MOV	.023 In/Sec	.012 G-s
MIH	.028 In/Sec	.117 G-s
MIV	.025 In/Sec	.023 G-s
MIA	.025 In/Sec	.025 G-s
EIA	.125 In/Sec	.044 G-s
EIH	.095 In/Sec	.078 G-s
EIV	.133 In/Sec	.038 G-s
EOH	.066 In/Sec	.054 G-s
EOV	.023 In/Sec	.021 G-s
4211 A - PC 4211 A	(20	)-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.034 In/Sec	.127 G-s
MOV	.029 In/Sec	.055 G-s
MIH	.031 In/Sec	.120 G-s
MIV	.033 In/Sec	.036 G-s
MIA	.016 In/Sec	.024 G-s
EIA	.047 In/Sec	.086 G-s
EIH	.052 In/Sec	.270 G-s
EIV	.090 In/Sec	.068 G-s
7522 в – РС 7522 в	(20	)-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.136 In/Sec	.236 G-s
MOV	.324 In/Sec	
MIH	.162 In/Sec	.154 G-s
MIV	.164 In/Sec	.046 G-s
MIA	.142 In/Sec	.089 G-s
EIA	.056 In/Sec	.085 G-s
EIH	.127 In/Sec	.397 G-s
EIV	.202 In/Sec	.085 G-s
EOH	.115 In/Sec	.235 G-s
EOV	.163 In/Sec	.090 G-s
7520 в – РС 7520 в	(2)	)-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
МОН	.013 In/Sec	.0027 G-s
MOV	.015 In/Sec	.0039 G-s
MIH	.0079 In/Sec	.0048 G-s
MIN MIV	.010 In/Sec	.0048 G-S .0042 G-S
V		

	00CC T- /0	040 G -
MIA	.0066 In/Sec .0	
EIA	.0075 In/Sec .0	
EIH		082 G-s
EIV	•	067 G-s
EOH	•	026 G-s
EOV	.0080 In/Sec .0	020 G-s
	100.00	
9520 A - PC 9520 A	(20-Mar	-
NOT	OVERALL LEVEL 1	- 20 KHz
MOH	•	254 G-s
MOV		129 G-s
MIH		734 G-s
MIV		063 G-s
MIA	•	060 G-s
EIA		445 G-s
EIH		084 G-s
EIV	.054 In/Sec .	370 G-s 314 G-s
EOH	.088 In/Sec 2.	314 G-S
EOV	.071 In/Sec .	5/8 G-S
9701 B - PC 9701 B	(20-Mar	-24)
5,01 2 10 5,01 2	-	- 20 KHz
МОН		232 G-s
MOV		082 G-s
MIH	· .	462 G-s
MIV		067 G-s
MIA		094 G-s
EIA		140 G-s
EIH	.213 In/Sec .	394 G-s
EIV		157 G-s
EOH		998 G-s
EOV		177 G-s
201		
9621 B - PC 9621 B	(20-Mar	-24)
	OVERALL LEVEL 1	- 20 KHz
MOH	.134 In/Sec 2.	098 G-s
MOV		868 G-s
MOV MIH	.067 In/Sec . .038 In/Sec .	964 G-s
	.067 In/Sec . .038 In/Sec .	
MIH	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec .	964 G-s 251 G-s 228 G-s
MIH MIV	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec .	964 G-s 251 G-s 228 G-s
MIH MIV MIA	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec .	964 G-s 251 G-s
MIH MIV MIA EIA	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s
MIH MIV MIA EIA EIH	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .055 In/Sec . .046 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s
MIH MIV MIA EIA EIH EIV	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .055 In/Sec . .046 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s
MIH MIV MIA EIA EIH EIV EOH EOV	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .055 In/Sec . .046 In/Sec . .087 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s
MIH MIV MIA EIA EIH EIV EOH	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24)
MIH MIV MIA EIA EIH EIV EOH EOV	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .087 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz
MIH MIV MIA EIA EIH EIV EOH EOV 1201 – PC 1201 MOH	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .087 In/Sec . .016 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s
MIH MIV MIA EIA EIH EIV EOH EOV 1201 – PC 1201 MOH MOV	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .016 In/Sec . .026 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 036 G-s
MIH MIV MIA EIA EIH EIV EOH EOV 1201 – PC 1201 MOH MOV MIH	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .016 In/Sec . .026 In/Sec . .014 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 036 G-s 089 G-s
MIH MIV MIA EIA EIH EIV EOH EOV 1201 – PC 1201 MOH MOV MIH MIV	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .026 In/Sec . .026 In/Sec . .031 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 036 G-s 089 G-s 016 G-s
MIH MIV MIA EIA EIH EIV EOH EOV 1201 – PC 1201 MOH MOV MIH MIV MIA	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .031 In/Sec . .018 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 036 G-s 089 G-s 016 G-s 022 G-s
MIH MIV MIA EIA EIH EIV EOH EOV 1201 – PC 1201 MOH MOV MIH MIV MIA EIA	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .031 In/Sec . .031 In/Sec . .030 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 036 G-s 089 G-s 016 G-s 016 G-s
MIH MIV MIA EIA EIH EIV EOH EOV 1201 – PC 1201 MOH MOV MIH MIV MIA EIA EIH	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .031 In/Sec . .031 In/Sec . .030 In/Sec . .035 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 036 G-s 036 G-s 016 G-s 016 G-s 016 G-s 075 G-s
MIH MIV MIA EIA EIH EIV EOH EOV 1201 – PC 1201 MOH MOV MIH MIV MIA EIA EIH EIV	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .014 In/Sec . .031 In/Sec . .031 In/Sec . .035 In/Sec . .035 In/Sec . .026 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 036 G-s 036 G-s 016 G-s 016 G-s 016 G-s 016 G-s 016 G-s
MIH MIV MIA EIA EIH EIV EOH NOH MOH MOV MIH MIV MIA EIA EIH EIV EOH	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .014 In/Sec . .014 In/Sec . .018 In/Sec . .030 In/Sec . .035 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .028 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 036 G-s 036 G-s 016 G-s 016 G-s 016 G-s 016 G-s 016 G-s 018 G-s 109 G-s
MIH MIV MIA EIA EIH EIV EOH EOV 1201 – PC 1201 MOH MOV MIH MIV MIA EIA EIH EIV	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .014 In/Sec . .014 In/Sec . .018 In/Sec . .030 In/Sec . .035 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .028 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 036 G-s 036 G-s 016 G-s 016 G-s 016 G-s 016 G-s 016 G-s
MIH MIV MIA EIA EIH EIV EOH MOH MOV MIH MIV MIA EIA EIH EIV EOH EOV	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .014 In/Sec . .014 In/Sec . .018 In/Sec . .030 In/Sec . .035 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .028 In/Sec . .027 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 036 G-s 036 G-s 016 G-s 016 G-s 016 G-s 018 G-s 018 G-s
MIH MIV MIA EIA EIH EIV EOH NOH MOH MOV MIH MIV MIA EIA EIH EIV EOH	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .014 In/Sec . .014 In/Sec . .018 In/Sec . .030 In/Sec . .035 In/Sec . .026 In/Sec . .035 In/Sec . .026 In/Sec . .026 In/Sec . .028 In/Sec . .027 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 036 G-s 016 G-s 016 G-s 016 G-s 016 G-s 018 G-s 109 G-s 018 G-s
MIH MIV MIA EIA EIH EIV EOH MOH MOV MIH MIV MIA EIA EIH EIV EOH EOV	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .014 In/Sec . .014 In/Sec . .018 In/Sec . .030 In/Sec . .035 In/Sec . .026 In/Sec . .026 In/Sec . .035 In/Sec . .026 In/Sec . .028 In/Sec . .028 In/Sec . .027 In/Sec . .027 In/Sec . .020-Mar OVERALL LEVEL 1	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 036 G-s 036 G-s 016 G-s 016 G-s 016 G-s 018 G-s 018 G-s
MIH MIV MIA EIA EIH EIV EOH EOV 1201 - PC 1201 MOH MOV MIH MIV MIA EIA EIH EIV EOH EOV 200 - PC 1202	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .014 In/Sec . .014 In/Sec . .018 In/Sec . .030 In/Sec . .026 In/Sec . .035 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .028 In/Sec . .027 In/Sec . .027 In/Sec . .013 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 036 G-s 016 G-s 016 G-s 016 G-s 016 G-s 018 G-s 109 G-s 018 G-s -24) - 20 KHz
MIH MIV MIA EIA EIH EIV EOH EOV 1201 - PC 1201 MOH MOV MIH MIV MIA EIA EIH EIV EOH EOV 200 - PC 1202 MOH	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .014 In/Sec . .014 In/Sec . .018 In/Sec . .030 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .028 In/Sec . .027 In/Sec . .027 In/Sec . .025 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 036 G-s 016 G-s 016 G-s 016 G-s 016 G-s 018 G-s 109 G-s 018 G-s -24) - 20 KHz 052 G-s
MIH MIV MIA EIA EIH EIV EOH EOV 1201 - PC 1201 MOH MOV MIA EIA EIA EIH EIV EOH EOV 1202 - PC 1202 MOH MOV	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .014 In/Sec . .014 In/Sec . .018 In/Sec . .030 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .028 In/Sec . .028 In/Sec . .027 In/Sec . .025 In/Sec . .025 In/Sec . .012 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 016 G-s 016 G-s 016 G-s 018 G-s 109 G-s 018 G-s -24) - 20 KHz 052 G-s 016 G-s
MIH MIV MIA EIA EIH EIV EOH EOV 1201 - PC 1201 MOH MOV MIH MIV EIA EIA EIH EIV EOH EOV 202 - PC 1202 1202 - PC 1202	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .014 In/Sec . .014 In/Sec . .018 In/Sec . .030 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .028 In/Sec . .028 In/Sec . .027 In/Sec . .025 In/Sec . .025 In/Sec . .021 In/Sec . .020 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 016 G-s 016 G-s 016 G-s 018 G-s 018 G-s 109 G-s 018 G-s
MIH MIV MIA EIA EIH EIV EOH EOV 1201 - PC 1201 MOH MOV MIH MIV EIA EIA EIH EIV EOH EOV 1202 - PC 1202 1202 - PC 1202	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .055 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .014 In/Sec . .014 In/Sec . .018 In/Sec . .030 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .028 In/Sec . .027 In/Sec . .025 In/Sec . .025 In/Sec . .020 In/Sec . .020 In/Sec . .020 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 016 G-s 016 G-s 016 G-s 018 G-s 016 G-s 017 G-s 017 G-s 017 G-s 017 G-s 018 G-s 016 G-s 018 G-s 018 G-s 016 G-s 018 G-s 018 G-s 016 G-s 018 G-s 018 G-s 016 G-s 018 G-s 018 G-s 018 G-s 016 G-s 018 G-s 018 G-s 016 G-s 018 G-s 016 G-s 018 G-s 016 G-s 000 G-s 0000 G-s 0000 G-s 0000 G-s 0000000000000
MIH MIV EIA EIH EIV EOH EOV 1201 - PC 1201 MOH MOV MIH MIV EIA EIA EIH EIV EOH EOV 1202 - PC 1202 1202 - PC 1202	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .014 In/Sec . .014 In/Sec . .018 In/Sec . .030 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .028 In/Sec . .028 In/Sec . .027 In/Sec . .025 In/Sec . .025 In/Sec . .020 In/Sec . .020 In/Sec . .025 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 016 G-s 016 G-s 016 G-s 016 G-s 018 G-s 109 G-s 018 G-s 017 G-s
MIH MIV EIA EIH EIV EOH EOV 1201 - PC 1201 MOH MOV MIH MIV EIA EIA EIY EOH EOV 1202 - PC 1202 1202 - PC 1202	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .055 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .014 In/Sec . .014 In/Sec . .018 In/Sec . .030 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .028 In/Sec . .028 In/Sec . .027 In/Sec . .025 In/Sec . .025 In/Sec . .020 In/Sec . .025 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 016 G-s 016 G-s 016 G-s 018 G-s 017 G-s 017 G-s 090 G-s
MIH MIV EIA EIH EIV EOH EOV 1201 - PC 1201 MOH MOV MIH MIV EIA EIH EIV EOH EOV 1202 - PC 1202 1202 - PC 1202	.067 In/Sec . .038 In/Sec . .040 In/Sec . .037 In/Sec . .055 In/Sec . .047 In/Sec . .046 In/Sec . .046 In/Sec . .046 In/Sec . .087 In/Sec . .087 In/Sec . .026 In/Sec . .014 In/Sec . .014 In/Sec . .014 In/Sec . .018 In/Sec . .030 In/Sec . .035 In/Sec . .026 In/Sec . .026 In/Sec . .026 In/Sec . .028 In/Sec . .028 In/Sec . .027 In/Sec . .012 In/Sec . .015 In/Sec . .035 In/Sec . .027 In/Sec . .027 In/Sec . .027 In/Sec . .027 In/Sec . .027 In/Sec . .027 In/Sec .	964 G-s 251 G-s 228 G-s 400 G-s 666 G-s 299 G-s 614 G-s 256 G-s -24) - 20 KHz 190 G-s 016 G-s 016 G-s 016 G-s 016 G-s 018 G-s 017 G-s 012 G-s 017 G-s 017 G-s 017 G-s 017 G-s 017 G-s 017 G-s 017 G-s

EOV	.023 In/Sec	.070 G-s
2101 B - PC 2101 B	(20	-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.014 In/Sec	.595 G-s
MOV	.013 In/Sec	.119 G-s
MIH	.013 In/Sec	.622 G-s
MIV	.010 In/Sec	.106 G-s
MIA	.0051 In/Sec	.127 G-s
EIA	.0061 In/Sec	.0092 G-s
EIH	.0088 In/Sec	.045 G-s
EIV	.0054 In/Sec	.0049 G-s
EOH	.0070 In/Sec	.045 G-s
EOV	.0069 In/Sec	.0041 G-s

Station: Pumps Route No. 2: 2ND HALF

MEASUREMENT POINT	OVERALL LEVEL	HFD / VHFD
1520 в – PC 1520	) в (2	0-Mar-24)
	OVEDATT TEVET	1 - 20 KHR
MOH	.083 In/Sec	.079 G-s
MOV	.053 In/Sec	.094 G-s
MIH	.044 In/Sec	
MIV	.041 In/Sec	
MIA	.024 In/Sec	.152 G-s
EIA	.024 In/Sec .028 In/Sec	.165 G-s
EIH		
EIV	.037 In/Sec .031 In/Sec .038 In/Sec	.168 G-s
EOH	.038 In/Sec	.611 G-s
EOV	.022 In/Sec	.288 G-s
6501 A - PC 6501	. A (2	0-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.050 In/Sec	.068 G-s
MOV	.026 In/Sec .057 In/Sec	.019 G-s
MIH	.057 In/Sec	.126 G-s
MIV	.044 In/Sec	.018 G-s
MIA	.110 In/Sec .023 In/Sec	.028 G-s .015 G-s
EIA	.023 In/Sec	.015 G-s
EIH	.050 In/Sec	.056 G-s
EIV	.019 In/Sec	.034 G-s
EOH	.041 In/Sec	.059 G-s
EOV	.014 In/Sec	.030 G-s
7252 A - PC 7252		0-Mar-24)
	OVERALL LEVEL	
MOH	.026 In/Sec	.124 G-s
MOV	.021 In/Sec .025 In/Sec	.033 G-s
MIH		
MIV	.016 In/Sec	
MIA	.0064 In/Sec	.032 G-s
EIA	.026 In/Sec	.181 G-s
EIH	.017 In/Sec	
EIV	.025 In/Sec	
EOH	.029 In/Sec	.683 G-s
EOV	.026 In/Sec	.171 G-s
1301 B - PC 1301		0-Mar-24)
NOT	OVERALL LEVEL	1 - 20 KHz
MOH	.084 In/Sec	1.453 G-s
MOV	.043 In/Sec	.270 G-s
MIH	.047 In/Sec	.605 G-s
MIV	.041 In/Sec	.114 G-s
MIA	.042 In/Sec	.059 G-s
EIA	.281 In/Sec	.139 G-s
EIH	.200 In/Sec	.405 G-s

		100 0
EIV	.368 In/Sec	.132 G-s
EOH	.096 In/Sec	.673 G-s
EOV	.297 In/Sec	.284 G-s
4304 A - PC 4304 A	(20	-Mar-24)
1501 A IC 1501 A	OVERALL LEVEL	
MOH	.046 In/Sec	
MOV	.042 In/Sec	.040 G-s
MIH	.046 In/Sec	.273 G-s
MIV	.033 In/Sec	.037 G-s
MIA	.021 In/Sec	.041 G-s
EIA	.041 In/Sec	.313 G-s
EIH	.045 In/Sec	.425 G-s
EIV	.060 In/Sec	.241 G-s
EOH	.047 In/Sec	.660 G-s
EOV	.069 In/Sec	.290 G-s
4300 B - PC 4300 B	(20	-Mar-24)
	OVERALL LEVEL	
MOH	.067 In/Sec	.147 G-s
MOV	.059 In/Sec	.028 G-s
MIH	.077 In/Sec	.116 G-s
MIV	.058 In/Sec	.020 G-s
MIA	.084 In/Sec	.035 G-s
EIA	.042 In/Sec	.128 G-s
EIH	.038 In/Sec	.188 G-s
EIV	.034 In/Sec	.126 G-s
EOH	.030 In/Sec	.181 G-s
EOV	.029 In/Sec	.081 G-s
1400	(00	
1430 A - PC 1430 A	(20 OVERALL LEVEL	-Mar-24) 1 - 20 KHz
МОН	.032 In/Sec	.143 G-s
MOH MOV	.032 IN/Sec	.026 G-s
MUV	.017 In/Sec	.209 G-s
MIN MIV	.027 IN/Sec	.209 G-s .033 G-s
MIV MIA	.010 IN/Sec	.033 G-s .031 G-s
EIA	.0093 In/Sec	.028 G-s
EIH	.026 In/Sec	.151 G-s
EIV	.018 In/Sec	.031 G-s
EOH	.026 In/Sec	.082 G-s
EOV	.026 In/Sec	.019 G-s
	• • • • • •	
1425 A - PC 1425 A	(20	-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.073 In/Sec	.281 G-s
MOV	.179 In/Sec	.098 G-s
MIH	.052 In/Sec	.323 G-s
MIV	.158 In/Sec	.054 G-s
MIA	.049 In/Sec	.055 G-s
EIA	.045 In/Sec	.085 G-s
EIH	.114 In/Sec	.416 G-s
EIV	.132 In/Sec	.124 G-s
EOH	.142 In/Sec	.348 G-s
EOV	.142 In/Sec	.043 G-s
7101 D - PC 7101 D	(20	-Mar-24)
	OVERALL LEVEL	1 - 20 KHz
MOH	.056 In/Sec	.119 G-s
MOV	.067 In/Sec	.036 G-s
MIH	.049 In/Sec	.165 G-s
MIV	.065 In/Sec	.029 G-s
MIA	.026 In/Sec	.059 G-s
EIA	.106 In/Sec	.155 G-s
EIH	.114 In/Sec	.650 G-s
EIV	.089 In/Sec	.171 G-s
EOH	.079 In/Sec	
EOV	.081 In/Sec	.109 G-s
1001 - PC 1001 A	(20	-Mar-24)

	OVERALL LEVEL	1 - 20 KHz
MOH	.034 In/Sec	.424 G-s
MOV	.052 In/Sec	.062 G-s
MIH	.047 In/Sec	.427 G-s
MIV	.065 In/Sec	.064 G-s
MIA EIA	.048 In/Sec .070 In/Sec	.077 G-s .098 G-s
EIH	.160 In/Sec	
EIV	.083 In/Sec	.102 G-s
EOH	.110 In/Sec	.551 G-s
EOV	.053 In/Sec	.082 G-s
4200 P PC 4200 P	(20	Mars 24)
4320 B - PC 4320 B	OVERALL LEVEL	-Mar-24) 1 - 20 KHz
MOH	• • • • · · ·	.172 G-s
MOV	.056 In/Sec .050 In/Sec .059 In/Sec	.030 G-s
MIH		.236 G-s
MIV	.038 In/Sec	.054 G-s
MIA	.020 In/Sec	.094 G-s
EIA EIH	.076 In/Sec .033 In/Sec	.172 G-s .481 G-s
EIV	.055 In/Sec	.481 G-S 089 G-S
EOH	.040 In/Sec	.272 G-s
EOV	.040 In/Sec	.082 G-s
	(00	
INFLUENT - DAF INFULENT	(20- OVERALL LEVEL	-Mar-24) 1 - 20 KHz
МОН	.062 In/Sec	.136 G-s
MOV	.166 In/Sec	.106 G-s
MIH	.084 In/Sec	.204 G-s
MIV	.164 In/Sec	
MIA	.179 In/Sec	.055 G-s
EIA	.079 In/Sec	.015 G-s
EIH EIV	.075 In/Sec	.033 G-s
EOH	.098 In/Sec	.0087 G-s .010 G-s
EOV	.095 In/Sec .055 In/Sec	.010 G-s
CIRC PUMP - DRUM CIRCULATION	PUMP (20- OVERALL LEVEL	-Mar-24)
МОН	.581 In/Sec	.293 G-s
MOV	.295 In/Sec	
MIH	.071 In/Sec	.585 G-s
MIV	.154 In/Sec	
MIA	.386 In/Sec	.070 G-s
EIA	.366 In/Sec	.032 G-s
EIH EIV	.235 In/Sec .165 In/Sec	.063 G-s .022 G-s
EOH	.414 In/Sec	.022 G-s .036 G-s
EOV	.258 In/Sec	.015 G-s
EFFULENT - DAF EFFULENT	(20- OVERALL LEVEL	-Mar-24) 1 - 20 KHz
МОН	.070 In/Sec	.160 G-s
MOV	.069 In/Sec	.175 G-s
MIH	.074 In/Sec	.181 G-s
MIV	.092 In/Sec	.177 G-s
MIA	.072 In/Sec	.130 G-s
EIA	.069 In/Sec	.049 G-s
EIH EIV	.114 In/Sec .074 In/Sec	.083 G-s .035 G-s
EOH	.074 In/Sec .148 In/Sec	.035 G-s .020 G-s
EOV	.104 In/Sec	.027 G-s
CHILLER2 - CHILLER 2		-Mar - 24)
мон	OVERALL LEVEL .063 In/Sec	1 - 20 KHz .949 G-s
MOV	.046 In/Sec	.373 G-s
MIH	•	1.137 G-s
MIV	.038 In/Sec	.147 G-s

MIA EIA EIH EIV EOH EOV EOA		.027 In/Sec .025 In/Sec .050 In/Sec .020 In/Sec .056 In/Sec .018 In/Sec .030 In/Sec	.223 G-s .190 G-s .537 G-s .090 G-s .317 G-s .041 G-s .069 G-s
7502 A	- PD 7502 A	(20 OVERALL LEVEL	-Mar-24) 1 - 20 KHz
MOH		.045 In/Sec	.030 G-s
MOV		.033 In/Sec	.0071 G-s
MIH		.039 In/Sec	.027 G-s
MIV MIA		.048 In/Sec .037 In/Sec	.013 G-s .011 G-s
EIA			.0037 G-s
EIH		.096 In/Sec	.024 G-s
EIV		.066 In/Sec	.0036 G-s
EOH EOV		.014 In/Sec .046 In/Sec	.027 G-s .0045 G-s
6111	- PM 6111	•	-Mar-24)
МОН		OVERALL LEVEL .131 In/Sec	1 - 20 KHz .269 G-s
MOV		.254 In/Sec	.133 G-s
MIH		.046 In/Sec	.284 G-s
MIV		.204 In/Sec	.097 G-s
MIA EIA		.070 In/Sec .082 In/Sec	.092 G-s .013 G-s
EIH		.059 In/Sec	.014 G-s
EIV		.146 In/Sec	.016 G-s
EOH		.033 In/Sec .086 In/Sec	.967 G-s
EOV		.086 IN/Sec	.185 G-s
PD-2116	- PD 2116		-Mar-24)
		OVERALL LEVEL	
MOH MOV		.012 In/Sec .017 In/Sec	.142 G-s .031 G-s
мін		.010 In/Sec	.113 G-s
MIV		.011 In/Sec	.015 G-s
MIA EIA		.015 In/Sec .014 In/Sec	.021 G-s .029 G-s
EIH		.014 IN/Sec	.132 G-s
EIV		.011 In/Sec	.031 G-s
EOH		.019 In/Sec	.196 G-s
EOV		.013 In/Sec	.129 G-s
5004	- PC-5004	(20	-Mar-24)
		OVERALL LEVEL	1 - 20 KHz
MOH MOV		.021 In/Sec .014 In/Sec	.144 G-s .034 G-s
MIH		.023 In/Sec	.121 G-s
MIV		.014 In/Sec	.047 G-s
MIA		.011 In/Sec	.032 G-s .029 G-s
EIA EIH		.013 In/Sec .014 In/Sec	.029 G-s .064 G-s
EIV		.011 In/Sec	.018 G-s
EOH		.014 In/Sec	.042 G-s
EOV		.010 In/Sec	.0078 G-s
9202	- PC-9202	(20	-Mar-24)
		OVERALL LEVEL	1 - 20 KHz
MOH		.074 In/Sec	.305 G-s
MOV MIH		.074 In/Sec .061 In/Sec	.029 G-s .243 G-s
MIV		.087 In/Sec	.031 G-s
MIA		.019 In/Sec	.027 G-s
EIA EIH		.027 In/Sec .096 In/Sec	.023 G-s .071 G-s
EIV		.069 In/Sec	.023 G-s
		-	

Clarification Of Vibration Units: Acc --> G-s RMS Vel --> In/Sec PK

As always, it has been a pleasure to serve Bio-Energy Memphis, TN. If there are any comments or questions, do not hesitate to contact us.

Sincerely,

Kevin W. Maxwell

ISO Certified Vibration Analyst, Category III



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