

LOADED SOUND TEST SUMMARY SHEET

NAME OF DEVICE UNDER TEST (DUT)
TOOL OPERATOR
COMPUTER OPERATOR
TEST DATE

Miter Saw
Edward Zechmann
Automated Mode, Xiandong Zhu
6/7/2006

TEST DESCRIPTION
TEST LOCATION
MANUFACTURER
MODEL
SERIAL NUMBER
MODE OF OPERATION
RUN NUMBER
YEAR MADE
DIMENSIONS (inches)
WEIGHT (lbs.)
TECHNICAL SPECIFICATIONS
MOUNTING CONDITIONS
LOADING CONDITIONS
K1 (dBA)
K2 (dBA)
TEMPERATURE (CELSIUS)
HUMIDITY %
BAROMETRIC PRESSURE ("Hg)

Sound Power Level Measurement
UC ANECHOIC LAB
Global Machinery Company (GMC)
MS1015AUL

TEST ENVIRONMENT
TOOL TESTING STANDARD
MEASUREMENT STANDARD
MICROPHONE SET-UP
SURFACE RADIUS

SEMI ANECHOIC, SEMI HEMISPHERICAL
ANSI S12.15-1992
ISO 3744:1994-05-01
10-MICROPHONES
2.00 meters

RATED POWER (WATTS)
ACTUAL INPUT POWER (WATTS)
VOLTAGE (VOLTS)
CURRENT (AMPS)
RATED RPM
ACTUAL RPM

1800
NA
NA
NA
5200
NA

SOUND POWER LEVEL (dBA)
SOUND POWER (WATTS) A-weighted
SWLA - k2 (dBA)
SWLA - k2 (WATTS) A-weighted
SOUND PRESSURE LEVEL (dBA) @ 2 meters

111.1
0.13003
109.8
0.09528
97.1

AT THE NOMINAL HEARING ZONE OF OPERATOR
SOUND PRESSURE LEVEL (dBA)

107.2

Average Directivity Study

TEST DATE 6/7/2006
DUT Miter Saw
Manufacturer Global Machinery Company (GMC)
Model Number MS1015AUL
Serial Number
Mode Normal
Run Number 3

A-weighted Sound Pressure Level

Mic #	Position1	Position2
0	97.1	96.9
1	92.1	95.2
2	98.5	99.0
3	97.6	99.0
4	96.9	98.6
5	98.2	96.8
6	94.2	91.8
7	98.6	98.3
8	95.5	95.5
9	97.5	97.3
10	107.2	106.1
dB difference	6.5	7.2

A-weighted Directivity Index

Mic #	dBA	dBA
0	0.5	0.1
1	-4.5	-1.6
2	1.9	2.1
3	0.9	2.1
4	0.3	1.8
5	1.6	0.0
6	-2.4	-5.0
7	2.0	1.4
8	-1.1	-1.3
9	0.8	0.5

SOUND DATA SHEET

PRODUCT INFORMATION

TEST CONDITIONS

	TEST DATE	6/7/2006	TEST CONDITIONS	
DUT	Miter Saw	Actual Power (watt)	NA	
Manufacturer	Global Machinery Company (GMC)	Voltage (Volts)	NA	
Model Number	MS1015AUL	Current (Amps)	NA	
Serial Number		Actual RPM	NA	
Mode of Operation	Normal	Temperature (Deg. F.)	23 C	
Run Number	3	Humidity (%)	39	
	Measurement Data			
	Linear (unweighted) Position 1	Linear (unweighted) Position 2	A-weighted Position 1	A-weighted Position 2
Sound Power (dB)	109.36	111.57	109.77	112.23
Sound Power (Watts)	0.08631	0.14371	0.09494	0.16720
Sound Pressure (dB)	95.36	97.57	95.77	98.23
	Baro. Press. (inch of Hg)	29.93 "Hg		
Linear (unweighted) Position 1				
Sound Power (dB)	109.36	109.80	109.63	110.37
Sound Power (Watts)	0.08631	0.09558	0.09174	0.12170
Sound Pressure (dB)	95.36	95.80	95.62	95.98
Linear (unweighted) Position 2				
Sound Power (dB)	109.36	111.45	110.91	110.85
Sound Power (Watts)	0.08631	0.13962	0.12332	0.1625
Sound Pressure (dB)	95.36	97.45	96.91	96.85
A-weighted Position 1				
Sound Power (dB)	109.36	110.13	110.07	110.30
Sound Power (Watts)	0.08631	0.10294	0.10171	0.10723
Sound Pressure (dB)	95.36	96.12	96.07	96.30
A-weighted Position 2				
Sound Power (dB)	109.36	111.45	111.57	111.51
Sound Power (Watts)	0.08631	0.13962	0.14369	0.14144
Sound Pressure (dB)	95.36	97.45	97.57	97.50
A-weighted Position 1				
Sound Power (dB)	109.36	111.45	111.57	111.51
Sound Power (Watts)	0.08631	0.13962	0.14369	0.14144
Sound Pressure (dB)	95.36	97.45	97.57	97.50
A-weighted Position 2				
Sound Power (dB)	109.36	111.45	111.57	111.51
Sound Power (Watts)	0.08631	0.13962	0.14369	0.14144
Sound Pressure (dB)	95.36	97.45	97.57	97.50
	Calculations			
Average A-weighted Sound Data				
Sound Power (dB)		111.14		
Sound Power (Watts)		0.1300		
Sound Pressure (dB)		97.14		
Std. Deviation SWLA		0.8496		
95 % Confidence Level		0.3277		
Mean SPLA-k2		95.79		

PRODUCT INFORMATION

TEST DATE	6/7/2006
DUT	Miter Saw
Manufacturer	Global Mac
Model Number	MS1015AU
Serial Number	
Mode of Operation	Normal
Run Number	3

Measurement Data

Linear (unweighted) Position 1	
Sound Power (dB)	109.36
Sound Power (Watts)	0.08631
Sound Pressure (dB)	95.36

Linear (unweighted) Position 2	
Sound Power (dB)	111.57
Sound Power (Watts)	0.14371
Sound Pressure (dB)	97.57

A-weighted Position 1	
Sound Power (dB)	109.77
Sound Power (Watts)	0.09494
Sound Pressure (dB)	95.77

A-weighted Position 2	
Sound Power (dB)	112.23
Sound Power (Watts)	0.16720
Sound Pressure (dB)	98.23

Calculations

Average A-weighted Sound Data	
Sound Power (dB)	111.14
Sound Power (Watts)	0.1300
Sound Pressure (dB)	97.14

Std. Deviation SWLA	0.8496
95 % Confidence Level	0.3277
Mean SPLA-k2	95.79