

OWNER CA State Sacramento MAKE G S I MODEL AUDIOSTAR PRO SERIAL # GS0071244 AT# 108145

Frequency Hz		Earphone Transducers - SPL dB Deviation @ 70 dB HL						Masking dB Deviation		Distortion THD, -dB Down or %			Bone dB Deviation		Sound Field Warble dB 45°	
Indicated	Actual	Primary * - Channel 1		Primary * - Channel 2		Secondary Transducers		Left	Right	Left	Right	Bone	Channel 1	Channel 2	Left	Right
		Left	Right	Left	Right	Left	Right									
125	125	-0.1	-	-	0	0.1	0.1	-0.5	-0.5	N/A	N/A	N/A	N/A	N/A	-0.5	-0.5
250	250	0	-	-	-0.1	0.2	0.1	-0.5	-0.5	0.3	0.2	1.2	-0.2	-	-0.5	0.5
500	500	0	-	-	0	-0.1	0.3	-0.5	0	0.1	0.1	0.2	0	-	-0.5	-0.5
750	750	0	-	-	0	0.3	0.2	-0.5	0	N/A	N/A	N/A	0	-	0.5	0
1000	1000	0.1	-	-	0	0	0.2	0.5	0.5	0.2	0.2	0.5	0.1	-	0.5	0
1500	1500	0	-	-	0	0.1	0.1	0	0	N/A	N/A	N/A	-0.1	-	0.5	0.5
2000	2000	0	-	-	0	0.2	0	0	-0.5	0.4	0.4	1.5	0.1	-	0	0.5
3000	3000	0	-	-	0	-0.1	-0.2	0	0	N/A	N/A	N/A	0	-	0	0.5
4000	4000	0	-	-	-0.1	0.1	0.1	-0.5	-0.5	0.7	0.8	2.7	0	-	-0.5	-0.5
6000	6000	0.2	-	-	0	0	0.1	0	0	N/A	N/A	N/A	-1	-	0.5	0.5
8000	8000	0.1	-	-	-0.2	-0.3	0.1	0.5	0.5	N/A	N/A	N/A	-1	-	-0.5	-0.5
10000	-	-	-	-	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	-	-
12000	12000	0.3	-	-	0	-	-	0	-0.5	N/A	N/A	N/A	N/A	N/A	-	-
Speech	N/A	-0.5	-	-	-0.5	-0.5	-0.5	-0.5	-0.5	1.2	1.1	-	-1	-	-1	-1

Attenuator Linearity, dB Deviation																							Off Level	Cross Talk	
Dial Indication	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5			0
Channel 1 Left	0	0	0	-0.1	-0.1	-0.1	-0.1	-0.1	0 Ref.	0	0	0	0	0	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	-0.1	0	0.2	110	0
Channel 2 Right	0	0	0	0	0	0	0	0	0 Ref.	0.1	0.1	0.1	0.1	0.1	0.1	-0.7	0.1	0	0.1	0	0.1	0.1	0.2	109	0

	Channel 1	Channel 2	Pass	Fail
Fail Time, ms	34.5	34.5		
Rise Time, ms	34.25	34		
Overshoot, dB	0.07	0.07		
Tape/CD Input, dB Deviation	0	0		
Channel Mix Error, dB Dev.	0	0		
White Noise-SPL @ 70 dB HL	80	80		
Attenuator Extended Range			X	
Shock Hazard			X	
Other Unwanted Sound			X	
Mechanical Integrity			X	
Warble/FM			X	
Speech S/N			X	

*Primary Transducer Type	TDH 49/50	Bone Transducer Type	B81
*Secondary Transducer Type	IP30		

Note: Masking and Distortion Values Based On Primary Transducer

Date of Calibration 01/14/2019 Certified By David Eckels

5272 Jerusalem Ct Ste A Modesto, CA (800) 653-3277  
 SLM L-D 824 sn 1815  
 1" Mic sn 1051; Pre 902 sn 4975  
 Mastoid AMC493b sn 5291

Comment Unit meets manufacturers specifications.

OWNER CA State Sacramento MAKE Welch Allyn MODEL TM262 SERIAL NO. AS074652

COMPLIANCE SECTION

Probe Tone			Immittance Scale Linearity, ml						
-	Freq.	SPL	Actual	.5	1	2	3	4	5
226 Hz	226	85	226 Hz	0.53	-	1.96	-	-	5.02
1000 Hz	1000	83	1000 Hz	-	-	-	-	-	-

MANOMETER SECTION

Pressure Readings, daPa									
Actual	+200	+100	0	-100	-200	-300	-400	-500	-600
Indication	200	100	0	-100	-200	-	-	-	-
Deviation	0	0	0	0	0	-	-	-	-

Reflex Scale Linearity NA

REFLEX SECTION / AUDIOMETER

Attenuator Linearity, dB Deviation																											
Dial Indication	125	120	115	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	
Phone	-	-	-	-	-	-	-	-	-	-	-	0 Ref.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Frequency, Hz		Reflex *		Audiometer *	
Indicated	Actual	Contra	IPSI	Left	Right
125	N/A	N/A	N/A	-	-
250	-	-	N/A	-	-
500	499	-	-0.2	-	-
1000	999	-	0	-	-
2000	1997	-	0.3	-	-
3000	-	-	-	-	-
4000	3997	-	-0.1	-	-
6000	-	-	N/A	-	-
8000	-	-	N/A	-	-

-	Pass	Fail
Distortion	X	
Rise/Decay - O.S.	X	
Off Ratio	X	
Shock Hazard	X	
Noise Stimulus	X	
Mechanical and Electrical Integrity	X	
Pressure Leakage	X	
Battery Check	NA	
Earphone Type	TDH 39	

Acoustic immittance: Refers collectively to acoustic impedance, acoustic admittance and acoustic compliance units.

Units calibrated to manufacturer specifications or to current ANSI S3.6 specifications where it may apply to the reflex section. Manufacturer specifications may supercede ANSI S3.6 Audiometer or ANSI S3.39 immittance Standards.

Date of Calibration 01/15/2019

Certified By David Eckels  
 5272 Jerusalem Ct Ste A Modesto, CA (800) 653-3277

SLM L-D 824 sn 1815  
 1" Mic sn 1051; Pre 902 sn 4975  
 Mastoid AMC493b sn 5291

\* Deviations are from dB HL (ANSI), SPL or Manufacturers Specifications

Case damaged circa 2015, unit functional if wiggled until power plug fits. Unit meets manufacturers specifications.

OWNER CA State Sacramento

MAKE G S I

MODEL 39V2

SERIAL NO. GS0054199

COMPLIANCE SECTION

Probe Tone			Immittance Scale Linearity, ml						
-	Freq.	SPL	Actual	.5	1	2	3	4	5
226 Hz	226	85	226 Hz	0.51	-	2.03	-	-	4.95
1000 Hz	1000	83	1000 Hz	-	-	-	-	-	-

MANOMETER SECTION

Pressure Readings, daPa									
Actual	+200	+100	0	-100	-200	-300	-400	-500	-600
Indication	198	100	0	-102	-200	-	-	-	-
Deviation	-2	0	0	-2	0	-	-	-	-

Reflex Scale Linearity NA

REFLEX SECTION / AUDIOMETER

Attenuator Linearity, dB Deviation																											
Dial Indication	125	120	115	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	
Phone	-	-	-	-	-	-	-	-	-	-	-	0 Ref.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Frequency, Hz		Reflex *		Audiometer *	
Indicated	Actual	Contra	IPSI	Left	Right
125	N/A	N/A	N/A	-	-
250	-	-	N/A	-	-
500	500	-0.2	0.3	-	-
1000	1000	<b>-0.3</b>	0	-	-
2000	2000	0	0	-	-
3000	-	-	-	-	-
4000	4000	0.1	-0.2	-	-
6000	-	-	N/A	-	-
8000	-	-	N/A	-	-

-	Pass	Fail
Distortion	X	
Rise/Decay - O.S.	X	
Off Ratio	X	
Shock Hazard	X	
Noise Stimulus	X	
Mechanical and Electrical Integrity	X	
Pressure Leakage	X	
Battery Check	NA	
Earphone Type	TDH 39	

Acoustic immittance: Refers collectively to acoustic impedance, acoustic admittance and acoustic compliance units.

Units calibrated to manufacturer specifications or to current ANSI S3.6 specifications where it may apply to the reflex section. Manufacturer specifications may supersede ANSI S3.6 Audiometer or ANSI S3.39 immittance Standards.

Date of Calibration 01/14/2019

Certified By David Eckels  
 5272 Jerusalem Ct Ste A Modesto, CA (800) 653-3277

SLM L-D 824 sn 1815  
 1" Mic sn 1051; Pre 902 sn 4975  
 Mastoid AMC493b sn 5291

\* Deviations are from dB HL (ANSI), SPL or Manufacturers Specifications

Unit meets manufacturers specifications.

OWNER CA State Sacramento MAKE G S I MODEL 37 SERIAL NO. AF061311

COMPLIANCE SECTION

Probe Tone			Immittance Scale Linearity, ml						
-	Freq.	SPL	Actual	.5	1	2	3	4	5
226 Hz	226	85	226 Hz	0.45	-	1.88	-	-	-
1000 Hz	-	-	1000 Hz	-	-	-	-	-	-

MANOMETER SECTION

Pressure Readings, daPa									
Actual	+200	+100	0	-100	-200	-300	-400	-500	-600
Indication	188	93	0	-91	-184	-	-	-	-
Deviation	-12	-7	0	9	16	-	-	-	-

Reflex Scale Linearity NA

REFLEX SECTION / AUDIOMETER

Attenuator Linearity, dB Deviation																											
Dial Indication	125	120	115	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	
Phone	-	-	-	-	-	-	-	-	-	-	-	0 Ref.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Frequency, Hz		Reflex *		Audiometer *	
Indicated	Actual	Contra	IPSI	Left	Right
125	N/A	N/A	N/A	-	-
250	-	-	N/A	-	-
500	-	-	-	-	-
1000	-	-	-	-	-
2000	-	-	-	-	-
3000	-	-	-	-	-
4000	-	-	-	-	-
6000	-	-	N/A	-	-
8000	-	-	N/A	-	-

-	Pass	Fail
Distortion	X	
Rise/Decay - O.S.	X	
Off Ratio	X	
Shock Hazard	X	
Noise Stimulus	X	
Mechanical and Electrical Integrity	X	
Pressure Leakage		X
Battery Check	NA	
Earphone Type	TDH 39	

Acoustic immittance: Refers collectively to acoustic impedance, acoustic admittance and acoustic compliance units.

Units calibrated to manufacturer specifications or to current ANSI S3.6 specifications where it may apply to the reflex section. Manufacturer specifications may supercede ANSI S3.6 Audiometer or ANSI S3.39 immittance Standards.

Date of Calibration 01/14/2019

Certified By David Eckels  
 5272 Jerusalem Ct Ste A Modesto, CA (800) 653-3277

SLM L-D 824 sn 1815  
 1" Mic sn 1051; Pre 902 sn 4975  
 Mastoid AMC493b sn 5291

\* Deviations are from dB HL (ANSI), SPL or Manufacturers Specifications

Unit intermittently leaking. Not repairable. Unit meets manufacturers specifications.

OWNER CA State Sacramento MAKE BELTONE MODEL SCOUT SERIAL # 10K2751

Frequency Hz		Earphone SPL dB Deviation @ 70 dB HL		Distortion THD, -dB Down		Masking dB Deviation	Bone dB Deviation
Indicated	Actual	Left	Right	Air	Bone		
125	125	-0.4	-1.4	N/A	N/A	-	N/A
250	251	0.6	0.5	0.9	-	-	-
500	497	0.5	0.8	0.8	-	-	-
750	749	0.9	1	N/A	N/A	-	-
1000	996	1.5	1.3	0.6	-	-	-
1500	1496	1.8	1.1	N/A	N/A	-	-
2000	1992	0.7	0.9	0.5	-	-	-
3000	2993	0.8	0.8	N/A	N/A	-	-
4000	3978	0.5	0.8	0.8	-	-	-
6000	5985	-0.2	0.3	N/A	N/A	-	-
8000	7981	2.2	2.3	N/A	N/A	-	-
Speech	N/A	-	-	-	-	-	-

Tone Switching - Fail Time, ms	28.62
Tone Switching - Rise Time, ms	22
Tone Switching - Overshoot, dB	0.12
Tone Switching - Pulsed Width, ms	216.12
Tone Leakage - Off Level, dB Down	111
Tone Leakage - Cross Talk, dB Down	1

- Pass Fail

Shock Hazard	X	
Stability	X	
Speech Signal to Noise Ratio	NA	
Other Unwanted Sound	X	
Subject Response	NA	
Masking Attenuator	NA	
Mechanical Integrity	X	

Attenuator Linearity, dB Deviation																							
Dial Indication	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0
Error	-	-	-	-	-0.5	-0.2	-0.2	-0.1	0 Ref.	0.1	0	0.2	0.1	0.3	0.2	0.4	0.3	0.5	0.4	0.6	0.5	0.7	1.1

Annual ANSI S3.6-1996	ANSI-89
OSHA Exhaustive Calibration	X

Phone Type	TDH 49/50
BoneType	B71

Date of Calibration 01/14/2019

Certified By David Eckels

5272 Jerusalem Ct Ste A Modesto, CA (800) 653-3277

SLM L-D 824 sn 1815  
 1" Mic sn 1051; Pre 902 sn 4975  
 Mastoid AMC493b sn 5291

Comments: Unit meets manufacturers specifications.

OWNER CA State Sacramento MAKE BELTONE MODEL SCOUT SERIAL # 10K4845

Frequency Hz		Earphone SPL dB Deviation @ 70 dB HL		Distortion THD, -dB Down		Masking dB Deviation	Bone dB Deviation
Indicated	Actual	Left	Right	Air	Bone		
125	125	0.2	-0.1	N/A	N/A	-	N/A
250	252	0.5	0.7	0.7	-	-	-
500	502	0.8	0.4	0.6	-	-	-
750	757	0.6	0.2	N/A	N/A	-	-
1000	1006	0.8	0.6	0.5	-	-	-
1500	1515	0	1	N/A	N/A	-	-
2000	2019	0.2	0.6	0.4	-	-	-
3000	3027	0.9	0.9	N/A	N/A	-	-
4000	4041	0.5	0.6	0.9	-	-	-
6000	6062	0.2	-0.1	N/A	N/A	-	-
8000	8067	1.8	1.3	N/A	N/A	-	-
Speech	N/A	-	-	-	-	-	-

Tone Switching - Fail Time, ms	27
Tone Switching - Rise Time, ms	21
Tone Switching - Overshoot, dB	0.17
Tone Switching - Pulsed Width, ms	203.5
Tone Leakage - Off Level, dB Down	110
Tone Leakage - Cross Talk, dB Down	0

- Pass Fail

Shock Hazard	X	
Stability	X	
Speech Signal to Noise Ratio	NA	
Other Unwanted Sound	X	
Subject Response	NA	
Masking Attenuator	NA	
Mechanical Integrity	X	

Attenuator Linearity, dB Deviation																							
Dial Indication	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0
Error	-	-	-	-	-0.4	-0.1	-0.1	0.1	0 Ref.	0.2	0.2	0.3	0.2	0.4	0.3	0.4	0.4	0.5	0.5	0.7	0.7	1	1.2

Annual ANSI S3.6-1996	ANSI-89
OSHA Exhaustive Calibration	X

Phone Type	TDH 49/50
BoneType	B71

Date of Calibration 01/14/2019

Certified By David Eckels

5272 Jerusalem Ct Ste A Modesto, CA (800) 653-3277

SLM L-D 824 sn 1815  
 1" Mic sn 1051; Pre 902 sn 4975  
 Mastoid AMC493b sn 5291

Comments: Unit meets manufacturers specifications.

OWNER CA State Sacramento MAKE INTERACOUSTICS MODEL AS608 SERIAL # 857897

Frequency Hz		Earphone SPL dB Deviation @ 70 dB HL		Distortion THD, -dB Down		Masking dB Deviation	Bone dB Deviation
Indicated	Actual	Left	Right	Air	Bone		
125	125	-0.1	0.3	N/A	N/A	-	N/A
250	250	0.3	-0.5	0.1	-	-	-
500	500	-0.1	-0.3	0.3	-	-	-
750	750	0.1	0	N/A	N/A	-	-
1000	1000	0.3	0	0.4	-	-	-
1500	1500	-0.1	0.1	N/A	N/A	-	-
2000	2000	0.1	-0.1	0.7	-	-	-
3000	3000	-0.2	0.1	N/A	N/A	-	-
4000	4000	-0.1	-0.2	0.9	-	-	-
6000	6000	0	0.2	N/A	N/A	-	-
8000	8000	0.4	-0.4	N/A	N/A	-	-
Speech	N/A	-	-	-	-	-	-

Tone Switching - Fail Time, ms	26
Tone Switching - Rise Time, ms	26
Tone Switching - Overshoot, dB	0.07
Tone Switching - Pulsed Width, ms	262.25
Tone Leakage - Off Level, dB Down	109
Tone Leakage - Cross Talk, dB Down	0

- Pass Fail

Shock Hazard	X	
Stability	X	
Speech Signal to Noise Ratio	NA	
Other Unwanted Sound	X	
Subject Response	NA	
Masking Attenuator	NA	
Mechanical Integrity	X	

Attenuator Linearity, dB Deviation																							
Dial Indication	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0
Error	-	-	-	-	0.1	0	0	-0.1	0 Ref.	0	0	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.2

Annual ANSI S3.6-1996	ANSI-96 Type 3,4,5	Phone Type	TDH 39
OSHA Exhaustive Calibration	X	BoneType	B71

Date of Calibration 01/14/2019

Certified By David Eckels

5272 Jerusalem Ct Ste A Modesto, CA (800) 653-3277

SLM L-D 824 sn 1815  
 1" Mic sn 1051; Pre 902 sn 4975  
 Mastoid AMC493b sn 5291

Comments: Unit meets manufacturers specifications.

OWNER CA State Sacramento MAKE INTERACOUSTICS MODEL AS608 SERIAL # 857884

Frequency Hz		Earphone SPL dB Deviation @ 70 dB HL		Distortion THD, -dB Down		Masking dB Deviation	Bone dB Deviation
Indicated	Actual	Left	Right	Air	Bone		
125	125	0.1	0	N/A	N/A	-	N/A
250	250	0.3	0.1	0.2	-	-	-
500	500	0.1	-0.1	0.1	-	-	-
750	750	-0.1	0	N/A	N/A	-	-
1000	1000	0.1	0	0.2	-	-	-
1500	1500	0	0.2	N/A	N/A	-	-
2000	2000	0.3	-0.1	0.4	-	-	-
3000	3000	0.3	0	N/A	N/A	-	-
4000	4000	0.2	0	0.8	-	-	-
6000	6000	0.3	0.1	N/A	N/A	-	-
8000	8000	-0.4	-0.2	N/A	N/A	-	-
Speech	N/A	-	-	-	-	-	-

Tone Switching - Fail Time, ms	26.5
Tone Switching - Rise Time, ms	26.38
Tone Switching - Overshoot, dB	0.09
Tone Switching - Pulsed Width, ms	263
Tone Leakage - Off Level, dB Down	109
Tone Leakage - Cross Talk, dB Down	0

- Pass Fail

Shock Hazard	X	
Stability	X	
Speech Signal to Noise Ratio	NA	
Other Unwanted Sound	X	
Subject Response	NA	
Masking Attenuator	NA	
Mechanical Integrity	X	

Attenuator Linearity, dB Deviation																							
Dial Indication	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0
Error	-	-	-	-	0.1	0	0	0	0 Ref.	0	-0.1	-0.1	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.2	-0.2	-0.1

Annual ANSI S3.6-1996	ANSI-96 Type 3,4,5	Phone Type	TDH 39
OSHA Exhaustive Calibration	X	BoneType	B71

Date of Calibration 01/14/2019

Certified By David Eckels

5272 Jerusalem Ct Ste A Modesto, CA (800) 653-3277

SLM L-D 824 sn 1815  
 1" Mic sn 1051; Pre 902 sn 4975  
 Mastoid AMC493b sn 5291

Comments: Unit meets manufacturers specifications.



OWNER CA State Sacramento MAKE AMBCO MODEL 650AB SERIAL # AB09608 AT# 3706

Frequency Hz		Earphone SPL dB Deviation @ 70 dB HL		Distortion THD, -dB Down		Masking dB Deviation	Bone dB Deviation
Indicated	Actual	Left	Right	Air	Bone		
125	-	-	-	N/A	N/A	-	N/A
250	252	1.5	1.6	1.9	-	-	-
500	502	0.6	0.6	1.6	-	-	-
750	-	-	-	N/A	N/A	-	-
1000	994	0.5	0	2.2	-	-	-
1500	-	-	-	N/A	N/A	-	-
2000	2006	0	0.8	3.1	-	-	-
3000	2985	0.2	0.8	N/A	N/A	-	-
4000	3994	0.3	0.4	0.9	-	-	-
6000	6026	0.7	0.9	N/A	N/A	-	-
8000	8031	2.4	2.8	N/A	N/A	-	-
Speech	N/A	-	-	-	-	-	-

Tone Switching - Fail Time, ms	25.5
Tone Switching - Rise Time, ms	27
Tone Switching - Overshoot, dB	0.09
Tone Switching - Pulsed Width, ms	109.5
Tone Leakage - Off Level, dB Down	97
Tone Leakage - Cross Talk, dB Down	0

- Pass Fail

Shock Hazard	X	
Stability	X	
Speech Signal to Noise Ratio	NA	
Other Unwanted Sound	X	
Subject Response	NA	
Masking Attenuator	NA	
Mechanical Integrity	X	

Attenuator Linearity, dB Deviation																							
Dial Indication	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0
Error	-	-	-	-	-0.2	-0.1	-0.1	-0.1	0 Ref.	0	-0.1	0	0	0	0	0.1	0.1	0.2	0.3	0.4	0.7	1.2	1.3

Annual ANSI S3.6-1996	ANSI-89
OSHA Exhaustive Calibration	X

Phone Type	TDH 39
BoneType	B71

Date of Calibration 01/14/2019

Certified By David Eckels

5272 Jerusalem Ct Ste A Modesto, CA (800) 653-3277

SLM L-D 824 sn 1815  
 1" Mic sn 1051; Pre 902 sn 4975  
 Mastoid AMC493b sn 5291

Comments: Unit meets manufacturers specifications.

# Sound Room Certificate of Measurement

This is to certify on 01/14/2019

Make and Model ACOUSTIC SYSTEMS RS254

Serial Number HC54332

Time and Location 12:05 PM CSU Sacramento Audiology 7667 Folsom Blvd #2316

was measured with the following interior octave band center sound pressure levels.

Octave Band Center Freq. Hz.	125	250	500	1000	2000	4000	8000
Vent Fan "ON"	23.1	12.6	2.6	2	4.5	6.5	9.2
Vent Fan "Off"	22.9	12.4	2.6	1.9	4	6.4	8.2

To determine compliance with the following specifications:

OSHA Table D-1, 1983 Specifications

ANSI S3.1 - 1999 (R2003) Maximum Permissible Ambient Noise Levels for Sound Rooms

SLM L-D 824 sn 1815  
 1" Mic sn 1051; Pre 902 sn 4975

Signature David Eckels

5272 Jerusalem Ct Ste A Modesto, CA (800) 653-3277

Owner CA State Sacramento MAKE G S I SERIAL NO. gs0071244HF AT# 108145  
 MODEL AUDIOSTAR PRO HF

Frequency Hz		Earphone SPL dB Deviation @ 70 dB HL		Masking dB Deviation		Sound Warble dB	
Indicated	Actual	Left	Right	Left	Right	Left	Right
8000	8000	0.5	0.3	-0.5	0	-	-
9000	9000	0.2	-0.1	0	-0.5	-	-
10000	10000	-0.3	-0.4	-0.5	0	-	-
11200	11200	0.2	0	-0.5	-0.5	-	-
12000	-	-	-	-	-	-	-
12500	12500	-0.3	0	-0.5	-0.5	-	-
13000	-	-	-	-	-	-	-
14000	14000	-0.5	-0.4	-1	-1	-	-
15000	-	-	-	-	-	-	-
16000	16008	0.2	-0.3	-0.5	-1	-	-
18000	18008	-0.5	-0.5	-1	-1.5	-	-
20000	20008	-1.2	-1.2	-1.5	-1.5	-	-

Tone Switching - Fail Time, ms	22.3
Tone Switching - Rise Time, ms	23.61
Tone Switching - Overshoot, dB	0.2
Tone Switching - Pulsed Width, ms	223
Tone Leakage - Off Level, dB Down	-
Tone Leakage - Cross Talk, dB Down	-

	Pass	Fail
Shock Hazard	X	
Stability	X	
Cal Values - Not Default	X	
Other Unwanted Sound	X	
Subject Response	X	
Masking Attenuator	X	
Mechanical Integrity	X	

Attenuator Linearity, dB Deviation																							
Dial Indication	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0
Error	-	-	-	-	0	0	0	0	0 Ref.	0	0	0	0	0	0	0	0	0.1	0.2	0.2	-0.2	-0.1	0.2

Annual ANSI S3.6-2004	X
Calibration Values - HTL/SPL	HTL

Phone Manufacturer	Sennheiser
Phone Model	HDA200

Date of Calibration 01/14/2019

Certified By David Eckels  
 5272 Jerusalem Ct Ste A Modesto, CA (800)  
 653-3277  
 SLM L-D 824 sn 1815  
 1" Mic sn 1051; Pre 902 sn 4975  
 Mastoid AMC493b sn 5291

Unit meets manufacturers specifications.

OWNER CA State Sacramento MAKE G S I MODEL AUDIOSTAR PRO 2nd SERIAL # AT# 100145 2nd Transducer-gs0071244

Frequency Hz		Earphone Transducers - SPL dB Deviation @ 70 dB HL						Masking dB Deviation		Distortion THD, -dB Down or %			Bone dB Deviation		Sound Field Warble dB 45°	
Indicated	Actual	Primary * - Channel 1		Primary * - Channel 2		Secondary Transducers		Left	Right	Left	Right	Bone	Channel 1	Channel 2	Left	Right
		Left	Right	Left	Right	Left	Right									
125	125	0.1	-	-	0.1	-	-	-	-	N/A	N/A	N/A	N/A	N/A	-	-
250	250	0.2	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-
500	500	-0.1	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-
750	750	0.3	-	-	0.2	-	-	-	-	N/A	N/A	N/A	-	-	-	-
1000	1000	0	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-
1500	1500	0.1	-	-	0.1	-	-	-	-	N/A	N/A	N/A	-	-	-	-
2000	2000	0.2	-	-	0	-	-	-	-	-	-	-	-	-	-	-
3000	3000	-0.1	-	-	-0.2	-	-	-	-	N/A	N/A	N/A	-	-	-	-
4000	4000	0.1	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-
6000	6000	0	-	-	0.1	-	-	-	-	N/A	N/A	N/A	-	-	-	-
8000	8000	-0.3	-	-	0.1	-	-	-	-	N/A	N/A	N/A	-	-	-	-
10000	-	-	-	-	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	-	-
12000	-	-	-	-	-	-	-	-	-	N/A	N/A	N/A	N/A	N/A	-	-
Speech	N/A	-0.5	-	-	-0.5	-	-	-	-	-	-	-	-	-	-	-

Attenuator Linearity, dB Deviation																								Off Level	Cross Talk
Dial Indication	110	105	100	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0		
Channel 1 Left	0.4	0.2	0.1	0.1	0	0	0	0	0 Ref.	0	0	0	0	0	0	0	0	-0.1	-0.1	-0.2	0.2	0.1	-0.1	99	0
Channel 2 Right	0.2	0.1	0	0	0	0	0	0	0 Ref.	0	0	-0.1	-0.1	0	0	0	0	0	0	0.2	0.1	0.2	0.3	99	0

-	Channel 1	Channel 2	-	Pass	Fail
Fail Time, ms	-	-	Attenuator Extended Range	X	
Rise Time, ms	-	-	Shock Hazard	X	
Overshoot, dB	-	-	Other Unwanted Sound	X	
Tape/CD Input, dB Deviation	-	-	Mechanical Integrity	X	
Channel Mix Error, dB Dev.	-	-	Warble/FM	X	
White Noise-SPL @ 70 dB HL	-	-	Speech S/N	X	

*Primary Transducer Type	IP30	Bone Transducer Type	B71
*Secondary Transducer Type	-		

Note: Masking and Distortion Values Based On Primary Transducer

Date of Calibration 01/14/2019 Certified By David Eckels

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 SLM L-D 824 sn 1815  
 1" Mic sn 1051; Pre 902 sn 4975  
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Comment Unit meets manufacturers specifications.