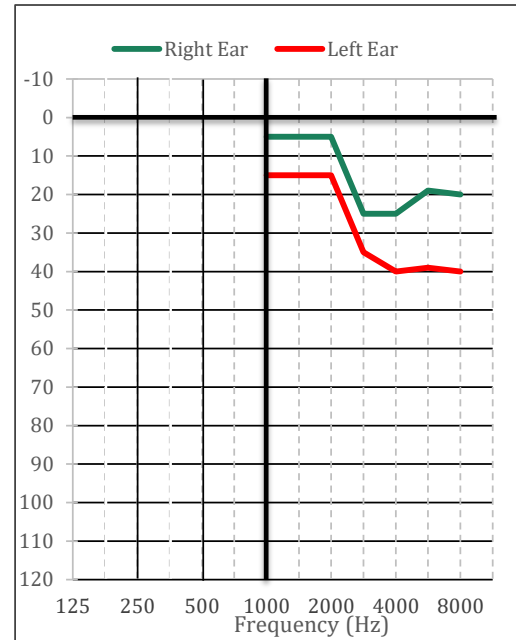


Client Name JM
Gender Male
Date of Birth 14/05/1964
Date of Audiogram 14/07/2020
Source of Audiogram Medico Legal
Reason for Audiogram (Screening / Report / occ health etc) NIHL Assessment
Age at date of audiogram 56

TDH39 headphones used? Y/N Yes
Bekesy correction required? Y/N No

Interpolation Method to be used Logarithmic

Data set ISO 7029 2017



Adjustments for Reports

Anchor Points 1 & 8
Adjust for Greater Loss in Better Ear? Yes
Adjust for No Better Ear? No

Hearing Threshold Levels (HTLs)	0.5	1	2	3	4	6	8
Measured HTLs for Right Ear	0	5	5	25	25	25	20
Measured HTLs for Left Ear	0	5	15	35	40	45	40

Adjustment for TDH39 Headphones							
Adjusted HTLs for Right Ear	0	5	5	25	25	19	20
Adjusted HTLs for Left Ear	0	15	15	35	40	39	40

Adjustment for Bekesy Correction							

Logarithmic Interpolation

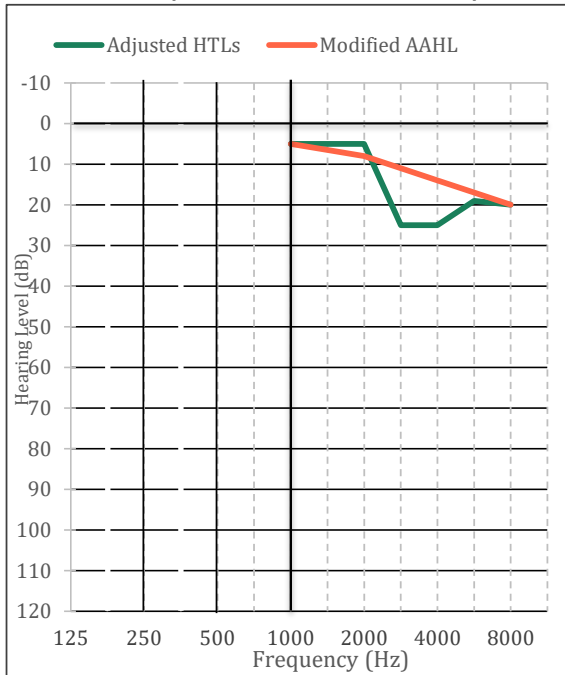
Right Ear	Frequency (kHz)							
	0.25	0.5	1	2	3	4	6	8
Pass One								
HTL - Measured HTLs (dB)			5	5	25	25	19	20
HTL at selected anchor points (dB)			5					20
Selected AAHL data at best percentile = 61%			4	8	11	14	18	21
Misfit Values at anchor points (dB)			1					-1
Interpolated misfit values (dB)			1	0	0	0	-1	-1
Modified AAHL values (dB)			5	8	11	14	17	20
Audiometric Bulge (dB)			0	0	14	11	2	0
Pass Two								
HTL - Measured HTLs (dB)			5	5	25	25	19	20
HTL modified at selected anchor points (dB)			3					16
Selected AAHL data at best percentile = 73%			2	5	8	11	14	17
Misfit Values at anchor points (dB)			1					-1
Interpolated misfit values (dB)			1	0	0	0	-1	-1
Modified AAHL values (dB)			3	5	8	11	13	16
Modified Bulge (dB) = NIHL component			2	0	17	14	6	4

Left Ear	Frequency (kHz)							
	0.25	0.5	1	2	3	4	6	8
Pass One								
HTL - Measured HTLs (dB)			15	15	35	40	39	40
HTL at selected anchor points (dB)			15					40
Selected AAHL data at best percentile = 21%			13	20	25	30	37	42
Misfit Values at anchor points (dB)			2					-2
Interpolated misfit values (dB)			2	1	0	-1	-1	-2
Modified AAHL values (dB)			15	21	25	29	36	40
Audiometric Bulge (dB)			0	0	10	11	3	0
Pass Two								
HTL - Measured HTLs (dB)			15	15	35	40	39	40
HTL modified at selected anchor points (dB)			13					36
Selected AAHL data at best percentile = 27%			12	17	22	26	33	38
Misfit Values at anchor points (dB)			1					-2
Interpolated misfit values (dB)			1	0	-1	-1	-2	-2
Modified AAHL values (dB)			13	17	21	25	31	36
Modified Bulge (dB) = NIHL component			2	0	14	15	8	4

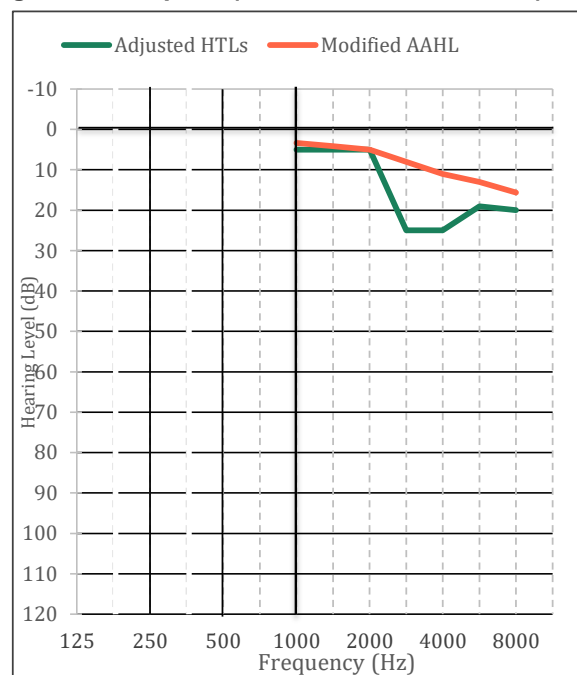
Lutman Coles Buffin Guidelines for Quantification Method 2016

	1, 2, 3 kHz	1, 2, 4 kHz
Modified Bulge - NIHL Right Ear (dB)	6.2	5.2
Modified Bulge - NIHL Left Ear (dB)	5.2	5.6
Binaural Noise Induced Hearing Loss (dB)	6.2	5.3

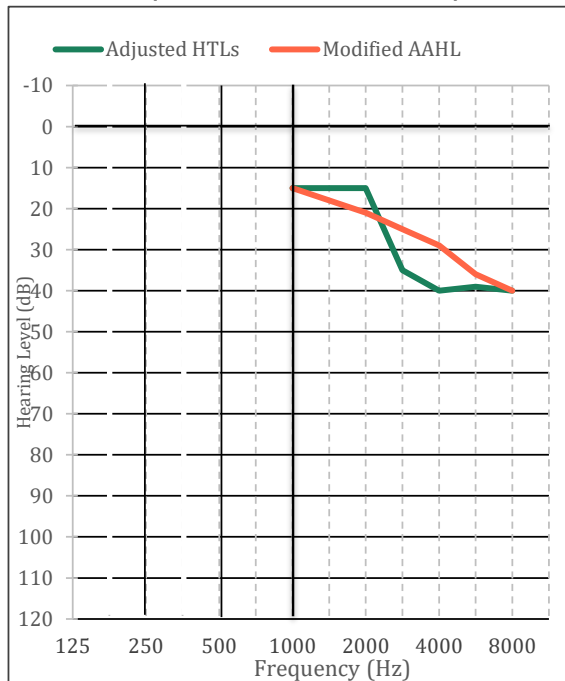
Note: Figures shown as integers but are all calculated to 4 decimal points through to the Audiometric and Modified Bulge calculations and then rounded to the nearest integer.

Right Ear 1st Pass (HTLs vs Modified AAHL)


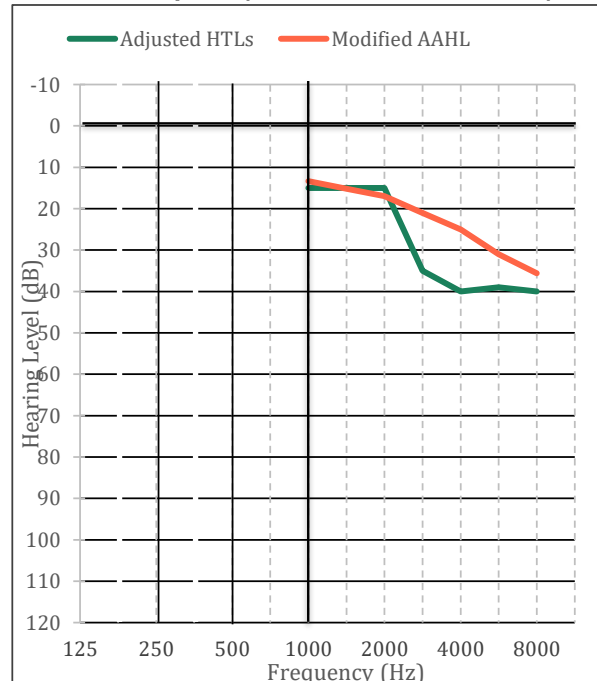
	0.25	0.5	1	2	3	4	6	8	kHz
Adjusted HTLs			5	5	25	25	19	20	dB
Modified AAHL			5	8	11	14	17	20	dB

Right Ear 2nd pass (HTLs vs Modified AAHL)


	0.25	0.5	1	2	3	4	6	8	kHz
Adjusted HTLs			5	5	25	25	19	20	dB
Modified AAHL			3	5	8	11	13	16	dB

Left Ear 1st Pass (HTLs vs Modified AAHL)


	0.25	0.5	1	2	3	4	6	8	kHz
Adjusted HTLs			15	15	35	40	45	40	dB
Modified AAHL			15	21	25	29	36	40	dB

Left Ear 2nd pass (HTLs vs Modified AAHL)


	0.25	0.5	1	2	3	4	6	8	kHz
Adjusted HTLs			15	15	35	40	39	40	dB
Modified AAHL			13	17	21	25	31	36	dB

DHSS Method

Average of Measured HTLs

	1, 2, 3 kHz	1, 2, 4 kHz
Right Ear	11.7	11.7
Left Ear	21.7	23.3
Better Hearing Ear	Right	Right

Binaural Calculation

	1, 2, 3 kHz	1, 2, 4 kHz
Better Hearing Ear on Average	Right	Right
Average HTLs in better hearing ear (dB)	11.7	11.7
Better hearing ear average x 4 (dB)	46.7	46.7
(Better hearing ear x 4) + worse ear (dB)	68.3	70.0
((Better hearing ear x 4) + worse ear) / 5 (dB)	13.7	14.0
Binaural Hearing Loss [BHL] (dB)	13.67	14.00

DHSS Method AAHL from best fit Pass 1 Percentile

	1, 2, 3 kHz	1, 2, 4 kHz
Sum of AAHL Levels (dB)	23.0	26.0
Average of above (dB)	7.7	8.7
Average Hearing Levels in Right Ear (dB)	11.7	11.7
Average Hearing Levels in Left Ear (dB)	21.7	23.3
Binuaral Hearing Level (dB)	13.7	14.0
Binuaral Hearing Level deficit (dB)	6.00	5.33

DHSS Method AAHL from best fit Pass 2 Percentile

	1,2,3 kHz	1,2,4 kHz
Sum of AAHL Levels (dB)	15.0	18.0
Average of above (dB)	5.0	6.0
Average Hearing Levels in Right Ear (dB)	11.7	11.7
Average Hearing Levels in Left Ear (dB)	21.7	23.3
Binuaral Hearing Level (dB)	13.7	14.0
Binuaral Hearing Level deficit (dB)	8.67	8.00

AAHL

Modified AAHL Data at Pass 1 for Better Hearing Ear

	1, 2, 3 kHz	1, 2, 4 kHz
AAHL at 1 kHz (dB)	4.0	4.0
AAHL at 2 kHz (dB)	8.0	8.0
AAHL at 3 or 4kHz (dB)	11.0	14.0
Average for Age (dB)	7.7	8.7
Age Associated Hearing Loss (dB)	7.67	8.67

Modified AAHL Data at Pass 2 for Better Hearing Ear

	1, 2, 3 kHz	1, 2, 4 kHz
AAHL at 1 kHz (dB)	2.0	2.0
AAHL at 2 kHz (dB)	5.0	5.0
AAHL at 3 or 4kHz (dB)	8.0	11.0
Average for Age (dB)	5.0	6.0
Age Associated Hearing Loss (dB)	5.00	6.00

Summary of Methods

	1, 2, 3 kHz	1, 2, 4 kHz
Lutman Coles Buffin Guidelines for Quantification Method 2016 (LCB)	6.2	5.3

DHSS method using 61 percentile AAHL	6.0	5.3
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Average of LCB and DHSS	6.11	5.31
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	1, 2, 3 kHz	1, 2, 4 kHz
Lutman Coles Buffin Guidelines for Quantification Method 2016 (LCB)	6.2	5.3

DHSS method using 73 percentile AAHL	8.7	8.0
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Average of LCB and DHSS	7.44	6.64
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