



Date of Issue: 20 April 2018

Issued by:

ANV Measurement Systems

Beaufort Court 17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: info@noise-and-vibration.co.uk Web: www.noise-and-vibration.co.uk

Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Certificate Number: UCRT18/1432

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Approved Signatory	,	,	1		1
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K. Mistry					

Customer

AWN Consulting Limited

The Tecpro Building

Clonshaugh Business and Technology Park

Dublin 17 Ireland D17 NX50

Order No.

Description

Sound Level Meter / Pre-amp / Microphone / Associated Calibrator

Identification

Manufacturer Instrument Serial No. / Version Type NL-52 Sound Level Meter 00186667 Rion Rion **Firmware** 1.9

Pre Amplifier 76817 Rion NH-25 Rion Microphone UC-59 12812 Rion Calibrator NC-74 34536109 Calibrator adaptor type if applicable NC-74-002

Performance Class

Test Procedure

TP 2.SLM 61672-3 TPS-49

Procedures from IEC 61672-3:2006 were used to perform the periodic tests.

Type Approved to IEC 61672-1:2002

YES Approval Number

21.21 / 13.02

If YES above there is public evidence that the SLM has successfully completed the

applicable pattern evaluation tests of IEC 61672-2:2003

Date Received

20 April 2018

ANV Job No.

UKAS18/04261

Date Calibrated 20 April 2018

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2003, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2002.

Previous Certificate

Dated

Certificate No.

Laboratory

Initial Calibration

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

Certificate Number UCRT18/1432

UKAS Accredited Calibration Laboratory No. 0653

None

Sound Level Meter Inst				ne soun	d leve	is ind	licated.		
SLM instruction manual ti			VL-52						
SLM instruction manual re		11-03							
SLM instruction manual s		Manufactur	er						
Internet download date if		N/A							
Case corrections available		Yes							
Uncertainties of case corr	ections	Yes							
Source of case data		Manufactur	er		11				
Wind screen corrections		Yes							
Uncertainties of wind scre		Yes							
Source of wind screen da		Manufactur	er						
Mic pressure to free field		Yes							
Uncertainties of Mic to F.I		Yes							
Source of Mic to F.F. corr		Manufactur		200 1	\ .				
Total expanded uncertain				002	Yes				
Specified or equivalent Ca		Specified							
Customer or Lab Calibrate		Lab Calibra							
Calibrator adaptor type if a Calibrator cal. date	applicable	NC-74-00							
		05 April 20							
Calibrator cert. number	•	UCRT18/13	48						
Calibrator cal cert issued	by	0653							
Calibrator SPL @ STP		93.98	dB	Calibra	ation re	feren	ce sound p	ressu	re level
Calibrator frequency		1001.90	Hz	Calibra	ation ch	neck f	requency		
Reference level range		25 - 130	dB	200					
Accessories used or corre	ected for during calib	ration - Exte	nsion C	Cable & \	Nind S	hield '	WS-15		
Note - if a pre-amp extens	sion cable is listed th	en it was used bet	ween th	he SLM a	and the	pre-a	amp.		
Environmental conditions	during tests	Start		End					
	Temperature	22.18		22.93		±	0.30 °C		
	Humidity	53.1		51.5		±	3.00 %	₹H	
	Ambient Pressure	101.32		101.34		±	0.03 kP	а	
Response to associated C	Calibrator at the envir	ronmental conditio	ns abo	ve.					
Initial indicated level				indicated	level		94.0	dB	3
The uncertainty of the ass							0.10	dB	
Self Generated Noise	This test is currently						5000 10 100		
Microphone installed (if re			T Le	N/A		dB /	A Weightin	ıa	\neg
Uncertainty of the microph			+	N/A		dB	T TTOIGHT	9	
Microphone replaced with			- Undo				<u>,</u> 1		
Weighting	A A	c C	- Onder	r Range	indicat	eu			
	2.7 dB lur	16.7 dB	UR	22	7 1	dB	UR		
Uncertainty of the electrical			UK	0.12		dB	OK		
			ara fara re	W-04-07 - 27-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0		200000000] 	h-0 -	and deltar a
The reported expanded ur	•		•				_		_
a coverage probability of a	ipproximately 95%.	The uncertainty ev	/aiuatio	n nas be	en car	riea o	ut in accor	dance	with
UKAS requirements.			.=0.04	.=				_	<i>.</i>
For the test of the frequen	cy weightings as per	paragraph 12. of	IEC 61	672-3:20	106 the	actua	al micropho	one fre	ee field
response was used.									
The acoustical frequency		weighting as per p	aragrap	oh 11 of	IEC 61	672-3	3:2006 wer	e carri	ied out
using an electrostatic actu	ator.								
		END							
Calibrated by: A Pat	el								R 1
Additional Comments									





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Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Certificate Number: UCRT18/1440

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Approved Si	gnatory			1	1
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K. Mistry		•			

Customer

AWN Consulting Limited

The Tecpro Building

Clonshaugh Business and Technology Park

Dublin 17 Ireland D17 NX50

Order No.

Description

Sound Level Meter / Pre-amp / Microphone / Associated Calibrator

Identification

Instrument Manufacturer Type Serial No. / Version

Sound Level Meter NL-52 00186669 Rion **Firmware** 1.9 Rion Rion Pre Amplifier NH-25 76819 UC-59 12814 Microphone Rion Calibrator NC-74 34536109 Rion Calibrator adaptor type if applicable NC-74-002

Performance Class

1

Test Procedure TP 2.SLM 61672-3 TPS-49

Procedures from IEC 61672-3:2006 were used to perform the periodic tests.

Type Approved to IEC 61672-1:2002

YES Approval Number 21.21 / 13.02

If YES above there is public evidence that the SLM has successfully completed the

applicable pattern evaluation tests of IEC 61672-2:2003

Date Received

20 April 2018

ANV Job No.

UKAS18/04261

Date Calibrated

20 April 2018

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2003, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2002.

Previous Certificate

Dated

Certificate No.

Laboratory

Initial Calibration

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Certificate Number UCRT18/1440

UKAS Accredited Calibration Laboratory No. 0653

None

Sound Level Meter Inst	ruction manual and	d data used to a	ajust ti	ne sour	ia ieve	is ind	licated.			
SLM instruction manual ti			NL-52							
SLM instruction manual re		11-03								
SLM instruction manual s		Manufactu	rer							
Internet download date if		N/A								
Case corrections available		Yes								
Uncertainties of case corr	ections	Yes								
Source of case data		Manufactu	rer							
Wind screen corrections a		Yes								
Uncertainties of wind scre		Yes								
Source of wind screen da		Manufactu	rer							
Mic pressure to free field		Yes								
Uncertainties of Mic to F.F.		Yes								
Source of Mic to F.F. corr		Manufactu		000	V I					
Total expanded uncertain				002	Yes					
Specified or equivalent Ca Customer or Lab Calibrate		Specified Lab Calibra								
Calibrator adaptor type if		NC-74-00								
Calibrator cal. date	арріїсавіє	05 April 20								
		UCRT18/13								
Calibrator cert. number	£		040							
Calibrator cal cert issued	by	0653	ID.			_				
Calibrator SPL @ STP		93.98	dB				ce sound		ure le	vel
Calibrator frequency		1001.90	Hz	Calibr	ation ch	neck f	requency			
Reference level range		25 - 130	dB							
Accessories used or corre				Cable &						
Note - if a pre-amp extens	sion cable is listed the	en it was used be	tween t	he SLM	and the	e pre-	amp.			
Environmental conditions	during tests	Start		End						
	Temperature	23.35		23.84		±	0.30 °C			
	Humidity	38.4		35.6		±	3.00 %			
	Ambient Pressure	101.37		101.36	6	±	0.03 kF	^o a		
Response to associated C	Calibrator at the envir	onmental condition	ns abo	ve.						
Initial indicated level	94.0	dB A	djusted	indicate	d level		94.0	C	IB	
The uncertainty of the ass	ociated calibrator su	pplied with the so	und lev	el meter	±		0.10	d	IB	
Self Generated Noise	This test is currently	not performed by	v this La	ab.						
Microphone installed (if re			1	N/A		dB .	A Weighti	na		
Uncertainty of the microph				N/A		dB	T			
Microphone replaced with			= Unde	r Range	indicat	ed	i			
Weighting	A	C C	- Oride	Tange	7					
	1.6 dB lur	15.5 dB	UR	21		dB	TUR			
Uncertainty of the electrication			1011	0.12		dB	10.1			
The reported expanded ur			ortointy				ane factor	· k=2	provid	dina
a coverage probability of a										
UKAS requirements.	approximately 95 %.	The uncertainty e	valuatio	ni ilas b	cen cai	neu c	out in acce	n danc	C WILI	
The state of the s	iahtinan on nov	navagraph 10 of	IEC 61	672 2:2	nne tha	oot u	al miaranh	ono f	roo fic	Jd.
For the test of the frequen	cy weightings as per	paragraph 12. 01	IEC 61	012-3.2	ooo ine	actua	ai illicropi	ione n	ree ne	яu
response was used.				. 1. 22 - 4	150.04		0.000			
The acoustical frequency		weignting as per p	oaragra	pn 11 of	IEC 61	0/2-	3:∠006 WE	re car	riea c	ut
using an electrostatic actu	ator.									
		END						•••••	• • • • • •	
Calibrated by: A Pat	el									R 1
Additional Comments										





Date of Issue: 28 July 2017

Issued by:

ANV Measurement Systems

Beaufort Court 17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: info@noise-and-vibration.co.uk
Web: www.noise-and-vibration.co.uk

Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Certificate Number: UCRT17/1627

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Approved S	Signatory					
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K. Mistry		r				

Customer

Grenke Ltd Unit 5D Fifth Floor Co. Cork Ireland

Order No.

1741

Description

Sound Level Meter / Pre-amp / Microphone / Associated Calibrator

Identification

Manufacturer Instrument Type Serial No. / Version Rion Sound Level Meter NL-52 00575785 Rion **Firmware** 1.8 Rion Pre Amplifier NH-25 65812 Rion Microphone UC-59 11406 Rion Calibrator NC-74 34536109 Calibrator adaptor type if applicable NC-74-002

Performance Class

1

Test Procedure

TP 2.SLM 61672-3 TPS-49

Procedures from IEC 61672-3:2006 were used to perform the periodic tests.

Type Approved to IEC 61672-1:2002

YES

Approval Number

21.21 / 13.02

If YES above there is public evidence that the SLM has successfully completed the

applicable pattern evaluation tests of IEC 61672-2:2003

Date Received

27 July 2017

ANV Job No.

UKAS17/07375

Date Calibrated

28 July 2017

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2003, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2002.

Previous Certificate

Dated

Certificate No.

Laboratory

Initial Calibration

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Certificate Number UCRT17/1627

JKAS Accredited	d Calibration	Laboratory	[,] No. 0653

None

Sound Level Meter Instruction mar		just the soul	nd levels i	ndicated.	
Committee of the control of the cont	d Level Meter NL-42 / N	L-52			
SLM instruction manual ref / issue	11-03				
SLM instruction manual source	Manufacture	r			
Internet download date if applicable	N/A				
Case corrections available	Yes				
Uncertainties of case corrections	Yes				
Source of case data	Manufacture	r			
Wind screen corrections available	Yes	•			
Uncertainties of wind screen correction					
Source of wind screen data	Manufacture	r			
Mic pressure to free field corrections	Yes	-			
Uncertainties of Mic to F.F. corrections	Yes				
Source of Mic to F.F. corrections	Manufacture	r			
Total expanded uncertainties within the			Yes		
Specified or equivalent Calibrator	Specified				
Customer or Lab Calibrator	Lab Calibrato	or			
Calibrator adaptor type if applicable	NC-74-002				
Calibrator cal. date	14 July 2017	•			
Calibrator cert. number	UCRT17/1591				
Calibrator cal cert issued by	0653				
Calibrator SPL @ STP	94.03	dB Calibr			
				ence sound pres	sure level
Calibrator frequency	1001.93		ation check	r frequency	
Reference level range	25 - 130	dB			
Accessories used or corrected for during		Shield WS-10			
Note - if a pre-amp extension cable is I	isted then it was used betw	een the SLM	and the pre	e-amp.	
Environmental conditions during tests	Start	End			
Temperature	22.56	22.97	±	0.20 °C	
Humidity	47.6	43.3	±		
Ambient Pre	ssure 99.76	99.75	±		
Response to associated Calibrator at the	ne environmental condition	s ahove	1		
Initial indicated level 93.9			d la	04.0	JD.
The uncertainty of the associated calib		sted indicate	d level		dB
			Ι	0.10	dB
Self Generated Noise This test is o	urrently not performed by t				
Microphone installed (if requested by co	ustomer) = Less Than	N/A	dB	A Weighting	
Uncertainty of the microphone installed		N/A	dB		
Microphone replaced with electrical inp	ut device - UR =	Under Range	indicated		
Weighting A	С		Z		
13.5 dB	UR 15.6 dB	UR 21	.1 dB	UR	
Uncertainty of the electrical self genera	ted noise ±	0.12	dB		
The reported expanded uncertainty is b	ased on a standard uncerta	aintv multiplie	d by a cove	 erage factor <i>k</i> =2	providing
a coverage probability of approximately	95%. The uncertainty eva	luation has be	een carried	out in accordan	ce with
UKAS requirements.	,			out in dooor du	ico with
For the test of the frequency weightings	as per paragraph 12 of IF	C 61672-3:20	006 the act	ual microphono	froe field
response was used.	as poi paragrapii 12. Oi ic	.0 01072-0.20	Joo the act	uai inicropilone	iree neid
	u opov vyojahtina na name		IEO 04070		
The acoustical frequency tests of a frequency an electrostatic actuator.	dency weighting as per par	agraph 11 of	IEC 61672	-3:2006 were ca	arried out
asing an olook ostatic actuator.					
Collinated Inc. A.B. (1)	END				
Calibrated by: A Patel					R 1
Additional Comments					





0653

Date of Issue: 28 July 2017

Issued by:

ANV Measurement Systems

Beaufort Court 17 Roebuck Way

Milton Keynes MK5 8HL

Telephone 01908 642846 Fax 01908 642814

E-Mail: info@noise-and-vibration.co.uk Web: www.noise-and-vibration.co.uk

Acoustics Noise and Vibration Ltd trading as ANV Measurement Systems

Page 1 of 2 Pages
Approved Signatory

K. Mistry

Certificate Number: UCRT17/1624

Customer

Grenke Ltd Unit 5D Fifth Floor Co. Cork Ireland

Order No.

1741

Description

Sound Level Meter / Pre-amp / Microphone / Associated Calibrator

Identification

Manufacturer Instrument Type Serial No. / Version Rion Sound Level Meter NL-52 00575802 Rion Firmware 1.8 Rion Pre Amplifier NH-25 75829 Rion Microphone UC-59 11426 Rion Calibrator NC-74 34536109

Performance Class

3 1

Test Procedure

TP 2.SLM 61672-3 TPS-49

Procedures from IEC 61672-3:2006 were used to perform the periodic tests.

Calibrator adaptor type if applicable

Type Approved to IEC 61672-1:2002

YES

Approval Number

21.21 / 13.02

NC-74-002

If YES above there is public evidence that the SLM has successfully completed the

applicable pattern evaluation tests of IEC 61672-2:2003

Date Received

27 July 2017

ANV Job No.

UKAS17/07375

Date Calibrated

28 July 2017

The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2006, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent testing organisation responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2003, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2002, the sound level meter submitted for testing conforms to the class 1 requirements of IEC 61672-1:2002.

Previous Certificate

Dated

Certificate No.

Laboratory

Initial Calibration

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Certificate Number UCRT17/1624

UKAS Accredited Calibration Laboratory No. 0653

None

SLM instruction manual ritie Sound Level Meter NL-42 / NL-62 SLM instruction manual ref / issue SLM instruction manual source	Sound Level Meter Inst	ruction manual an	d data used	d to adjust	the sour	nd leve	els ind	dicated.		
SLM instruction manual source Internet download date if applicable Yes Uncertainties of case corrections available Yes Uncertainties of case data Manufacturer Wind screen corrections available Yes Uncertainties of wind screen corrections Source of wind screen data Manufacturer Mice pressure to free field corrections Uncertainties of Mic to F.F. corrections Wanufacturer Mice pressure to free field corrections Wanufacturer Mice pressure to free field corrections Uncertainties of Mic to F.F. corrections Wanufacturer Mice pressure to free field corrections Ves Source of Mice to F.F. corrections Wanufacturer Mice pressure to free field corrections Ves Source of Mice to F.F. corrections Ves Source of Mice to F.F. corrections Wanufacturer Total expanded uncertainties within the requirements of IEC 61672-1:2002 Ves Source of Mice to F.F. corrections Specified Customer or Lab Calibrator Calibrator Calibrator Calibrator adaptor type if applicable Calibrator cal date 14 July 2017 Calibrator cal date 14 July 2017 Calibrator cal date 14 July 2017 Calibrator cal care tissued by 0653 Calibrator SPL @ STP 44.03 Calibrator SPL @ STP 44.03 Calibrator SPL @ STP 45.03 Calibrator SPL @ STP 46.03 Calibrator SPL @ STP 47.04 Calibrator occle for during calibration Wind Shield WS-10 Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp. Environmental conditions during tests Start End Temperature 12.1.72 22.23 \$\frac{1}{2}\$ 2.20 \$\frac{1}{2}\$ 2.23 \$\frac{1}{2}\$ 2.00 \$\frac{1}{2}\$ CHIMICAL ANDIENTE STAND SKRIP Ambient Pressure 99.76 99.75 \$\frac{1}{2}\$ 2.00 \$\frac{1}{2}\$ 3.00 \$\frac{1}{2}\$ 4.00 \$\frac{1}{2}\$ 6.00 \$\frac{1}{2}\$ 6.00 \$\frac{1}{	SLM instruction manual tit	le Sound Level	Meter NL	-42 / NL-52						
Internet download date if applicable N/A Case corrections available Yes Uncertainties of case corrections Wind screen corrections available Yes Uncertainties of wind screen corrections Wind screen corrections available Yes Uncertainties of wind screen corrections Source of wind screen data Manufacturer Wind pressure to free field corrections Uncertainties of Mic to F.F. corrections Source of Mic to F.F. corrections Source of Mic to F.F. corrections Uncertainties of Mic to F.F. corrections Source of Mic to F.F. corrections Source of Mic to F.F. corrections Wanufacturer Total expanded uncertainties within the requirements of IEC 61672-1:2002 Yes Specified Customer or Lab Calibrator Calibrator adaptor type if applicable NC-74-002 Calibrator adaptor type if applicable NC-74-002 Calibrator and card issued by O653 Calibrator SPL @ STP UCRT17/1591 Calibrator card. date UCRT17/1591 Calibrator Greuency 1001.93 Alz Calibration reference sound pressure level Calibrator frequency 1001.93 Accessories used or corrected for during calibration Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp. Environmental conditions aduring tests Start End Temperature 21.72 22.23 ± 0.20 °C Humidity Fire Septiment of Supplies Start Fire Microstance of Supplies Supplie	SLM instruction manual re	ef / issue	11	1-03						
Case corrections available Uncertainties of case corrections Source of case data Manufacturer Wind screen corrections available Ves Vincertainties of wind screen corrections Ves Source of wind screen data Manufacturer Mic pressure to free field corrections Ves Source of Mind to F.F. corrections Mic pressure to free field corrections Ves Source of Mind to F.F. corrections Ves Source of Mind to F.F. corrections Source of Mind to F.F. corrections Ves Source of Mind to F.F. corrections	SLM instruction manual so	ource	Manu	facturer						
Case corrections available Uncertainties of case corrections Source of case data Manufacturer Wind screen corrections available Ves Vincertainties of wind screen corrections Ves Source of wind screen data Manufacturer Mic pressure to free field corrections Ves Source of Mind to F.F. corrections Mic pressure to free field corrections Ves Source of Mind to F.F. corrections Ves Source of Mind to F.F. corrections Source of Mind to F.F. corrections Ves Source of Mind to F.F. corrections	Internet download date if a	applicable	1	N/A						
Uncertainties of case corrections Source of wind screen corrections available Uncertainties of wind screen corrections Source of wind screen data Uncertainties of wind screen corrections Source of wind screen data Mic pressure to free field corrections Uncertainties of Mind screen data Mic pressure to free field corrections Uncertainties of Mind to F.F. corrections Uncertainties of Mind to F.F. corrections Wanufacturer Total expanded uncertainties within the requirements of IEC 61672-1:2002 Yes Specified or equivalent Calibrator Calibrator adaptor type if applicable Calibrator adaptor type if applicable NC-74-002 Calibrator cal. date URCR17/1591 Calibrator frequency 1001.93 Hz Calibrator frequency 1001.93 Hz Calibrator heck frequency Reference level range 25 - 130 MB Accessories used or corrected for during calibration Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp. Environmental conditions during tests Start End Temperature 21.72 122.23 ± 0.20 °C Humidity 51.2 47.3 ± 3.00 %RH Ambient Pressure 99.76 99.75 ± 0.03 kPa Response to associated Calibrator supplied with the sound level meter ± 0.10 dB The uncertainty of the associated calibrator supplied with the sound level meter ± 0.10 dB Microphone installed (if requested by customer) = Less Than N/A MB Microphone installed (if requested by customer) = Less Than N/A MB Microphone installed (if requested by customer) = Less Than N/A MB Microphone installed uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. For the lest of the frequency weightings as per paragraph 11 of IEC 61672-3:2006 were carried out using an electrostatic actuator. END Calibrated by: A Patel										
Source of Manufacturer Wind screen corrections available Uncertainties of wind screen corrections Source of wind screen data Manufacturer Mic pressure to free field corrections Yes Uncertainties of Mic to F.F. corrections Manufacturer Total expanded uncertainties within the requirements of IEC 61672-1:2002 Yes Specified Lab Calibrator Lab Calibrator Lab Calibrator Lab Calibrator Lab Calibrator Lab Calibrator cet. number UCRT17/1591 Calibrator cet. number UCRT17/1591 Calibrator cet. number UCRT17/1591 Calibrator cet. number UCRT17/1591 Calibrator frequency 1001.93 Hz Calibrator frequency 1001.93 Hz Calibrator frequency 1001.93 Hz Calibrator check frequency Reference level range 25 - 130 MB Accessories used or corrected for during calibration- Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp. Environmental conditions during tests Start Temperature 21.72 22.23 ± 0.20 °C Humidity 51.2 47.3 ± 3.00 %RH Ambient Pressure 99.76 99.75 ± 0.03 kPa Response to associated Calibrator at the environmental conditions above. Initial indicated level 93.9 MB Adjusted indicated level 94.0 MB The uncertainty of the associated calibrator supplied with the sound level meter ± 0.10 MB Wicrophone installed (if requested by customer) = Less Than N/A MB Wicrophone installed (if requested by customer) = Less Than N/A MB Wicrophone installed (if requested by customer) = Less Than N/A MB Wicrophone replaced with electrical input device - Weighting A C Uncertainty of the microphone installed self generated noise ± N/A N/B Wicrophone replaced with electrical self generated noise ± N/A MB Wicrophone replaced with electrical self generated noi	Uncertainties of case corre	ections								
Wind screen corrections available Yes	Source of case data									
Source of wind screen data Manufacturer	Wind screen corrections a	vailable								
Microphone replaced corrections Yes	Uncertainties of wind scree	en corrections)	es/es						
Uncertainties of Mic to F.F. corrections Source of Mic to F.F. corrections Manufacturer Total expanded uncertainties within the requirements of IEC 61672-1:2002 Yes Specified or equivalent Calibrator Calibrator adaptor type if applicable NC-74-002 Calibrator cal. date 14 July 2017 Calibrator cal. date 14 July 2017 Calibrator cal. date 14 July 2017 Calibrator cal. date 16 Calibrator cal cert issued by 0653 Calibrator Requency 1001-93 Accessories used or corrected for during calibration Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp. Environmental conditions during tests Temperature 11-72 12-22 10-20 Response to associated Calibrator at the environmental conditions above. Initial indicated level 93.9 Bell Adjusted indicated level 93.9 Bell Adjusted indicated level 94.0 Bell Calibrator reference sound pressure level Calibrator frequency Weighting Response to associated Calibrator at the environmental conditions above. Initial indicated level 93.9 Bell Adjusted indicated level 94.0 Bell Cenerated Noise This test is currently not performed by this Lab. Microphone installed (if requested by oustomer) - Less Than N/A dB Microphone replaced with electrical input device - UR = Under Range indicated Weighting 10.9 10	Source of wind screen dat	a	Manu	facturer						
Source of Mic to F.F. corrections	Mic pressure to free field of	corrections)	es/						
Total expanded uncertainties within the requirements of IEC 61672-1:2002 Yes Specified or equivalent Calibrator Specified Customer or Lab Calibrator Calibrator cert. number UCRT17/1591 Calibrator cert number UCRT17/1591 Calibrator spl. @ STP Calibrator Spl. @ STP Q 4.03 AB Calibration reference sound pressure level Calibrator frequency 1001.93 AC Calibrator spl. @ STP Q 55-130 AB Accessories used or corrected for during calibration - Note - If a pre-amp extension cable is listed then it was used between the SLM and the pre-amp. Environmental conditions during tests Start End Temperature 21.72 22.23 Environmental conditions during tests Ambient Pressure 99.76 99.75 40.03 KPa Response to associated Calibrator at the environmental conditions above. Initial indicated level 93.9 B Adjusted indicated level 94.0 B Adjusted i	Uncertainties of Mic to F.F	corrections	Y	es es						
Specified or equivalent Calibrator Lab Calibrator Lab Calibrator Lab Calibrator Calibrator Calibrator Calibrator Calibrator adaptor type if applicable NC-74-002										
Customer or Lab Calibrator Calibrator vadaptor type if applicable Calibrator cad. date Calibrator cert. number Calibrator cal. cate Calibrator spt. @ STP Calibrator SPL. @ STP Quitable STP Q	Total expanded uncertaint	ies within the requir	ements of IE	C 61672-1:	2002	Yes				
Calibrator adaptor type if applicable Calibrator cal. date 14 July 2017 Calibrator cal. date 14 July 2017 Calibrator cal. date Calibrator cal. date UCRT17/1591 Calibrator cal. date UCRT17/1591 Galibrator cal. date UCRT17/1591 Calibrator cal. date UCRT17/1591 Calibrator frequency 1001.93 Ab Calibration reference sound pressure level Calibration check frequency Reference level range 25 - 130 Accessories used or corrected for during calibration - Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp. Environmental conditions during tests Start End Temperature 21.72 22.23 ± 0.20 °C Humidity 51.2 47.3 ± 3.00 %RH Ambient Pressure 99.76 99.75 ± 0.03 kPa Response to associated Calibrator at the environmental conditions above. Initial indicated level 93.9 dB Adjusted indicated level 94.0 dB Self Generated Noise This test is currently not performed by this Lab. Microphone installed (if requested by customer) = Less Than N/A dB Microphone replaced with electrical input device - UR = Under Range indicated Weighting A C IUR = Under Range indicated Weighting A C IUR = Under Range indicated Weighting A C IUR = Under Range indicated Weighting A C IUR = Under Range indicated Weighting A C IUR = Under Range indicated Weighting A C IUR = Under Range indicated Weighting A C C Z A D IUNcertainty of the electrical self generated noise ± N/A B IUR 21.4 B IUR 21.4 B IUR Uncertainty of the electrical self generated noise ± N/A B IUR 21.4 B IUR	Specified or equivalent Ca	librator	Spe	ecified						
Calibrator cal. date 14 July 2017 Calibrator cert. number UCRT17/1591 Calibrator cal cert issued by 0653 Calibrator SPL @ STP 94.03 dB Calibration reference sound pressure level Calibrator frequency 1001.93 Hz Calibration check frequency Reference level range 25 - 130 dB Accessories used or corrected for during calibration - Wind Shield WS-10 Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp. Environmental conditions during tests Start End Temperature 21.72 22.23 ± 0.20 °C Humidity 51.2 47.3 ± 3.00 %RH Ambient Pressure 99.76 99.75 ± 0.03 kPa Response to associated Calibrator at the environmental conditions above. Initial indicated level 93.9 dB Adjusted indicated level 94.0 dB The uncertainty of the associated calibrator supplied with the sound level meter ± 0.10 dB Self Generated Noise This test is currently not performed by this Lab. Microphone installed (if requested by customer) = Less Than N/A dB A Weighting Uncertainty of the microphone installed self generated noise ± N/A dB Microphone replaced with electrical input device - UR = Under Range indicated Weighting A C Z Uncertainty of the electrical self generated noise ± 0.12 dB The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. For the test of the frequency weightings as per paragraph 12. of IEC 61672-3:2006 the actual microphone free field response was used. END Calibrated by: A Patel	Customer or Lab Calibrato	or	Lab C	alibrator						
Calibrator cert. number	Calibrator adaptor type if a	ipplicable	NC-7	74-002						
Calibrator cal cert issued by Calibrator SPL @ STP 94.03 dB Calibration reference sound pressure level Calibrator SPL @ STP 94.03 dB Calibration reference sound pressure level Calibrator frequency 1001.93 Hz Calibration check frequency Reference level range 25 - 130 dB Accessories used or corrected for during calibration - Wind Shield WS-10 Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp. Environmental conditions during tests Start End Temperature 21.72 22.23 ± 0.20 °C Humidity 51.2 47.3 ± 3.00 %RH Ambient Pressure 99.76 99.75 ± 0.03 kPa Response to associated Calibrator at the environmental conditions above. Initial indicated level 93.9 dB Adjusted indicated level 94.0 dB The uncertainty of the associated calibrator supplied with the sound level meter ± 0.10 dB Self Generated Noise This test is currently not performed by this Lab. Microphone installed (if requested by customer) = Less Than N/A dB A Weighting Uncertainty of the microphone installed self generated noise ± N/A dB Microphone replaced with electrical input device - UR = Under Range indicated Weighting In 10.9 dB UR 15.7 dB UR 21.4 dB UR Uncertainty of the electrical self generated noise ± 0.12 dB The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. For the test of the frequency weightings as per paragraph 12. of IEC 61672-3:2006 the actual microphone free field response was used. The acoustical frequency tests of a frequency weighting as per paragraph 11 of IEC 61672-3:2006 were carried out using an electrostatic actuator. END Calibrated by: A Patel	Calibrator cal. date		14 Ju	ly 2017						
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Calibrator frequency 1001.93 Hz Calibration check frequency				3 dB	Colibr	otion ro	foron	oo oound n	20001180	loval
Reference level range 25 - 130 dB Accessories used or corrected for during calibration - Wind Shield WS-10									ressure	ievei
Accessories used or corrected for during calibration - Wind Shield WS-10 Note - if a pre-amp extension cable is listed then it was used between the SLM and the pre-amp. Environmental conditions during tests Start End Temperature 21.72 22.23 ± 0.20 °C Humidity 51.2 47.3 ± 3.00 %RH Ambient Pressure 99.76 99.75 ± 0.03 kPa Response to associated Calibrator at the environmental conditions above. Initial indicated level 93.9 dB Adjusted indicated level 94.0 dB The uncertainty of the associated calibrator supplied with the sound level meter ± 0.10 dB Self Generated Noise This test is currently not performed by this Lab. Microphone installed (if requested by customer) = Less Than N/A dB A Weighting Uncertainty of the microphone installed self generated noise ± N/A dB Microphone replaced with electrical input device - UR = Under Range indicated Weighting A C Z Weighting A C Z Uncertainty of the electrical self generated noise ± 0.12 dB The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements. For the test of the frequency weightings as per paragraph 12. of IEC 61672-3:2006 the actual microphone free field response was used. The acoustical frequency tests of a frequency weighting as per paragraph 11 of IEC 61672-3:2006 were carried out using an electrostatic actuator. END Calibrated by: A Patel					Calibra	ation ci	ieck i	requency		
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using an electrostatic actuator. END Calibrated by: A Patel	The acoustical frequency to	ests of a frequency	weighting as	per paragra	aph 11 of	IFC 61	672-3	3·2006 were	e carried	Out
Calibrated by: A Patel	using an electrostatic actua	ator.		, , 91,						Jul
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	Additional Comments									K 1