

ANNEX F

NOISE



ANNEX F1 CALIBRATION CERTIFICATES FOR NOISE

Certificate of Calibration

for

Description:

Sound Level Calibrator

Manufacturer:

Larson Davis

Type No.:

CAL 200

Serial No.:

15678

Submitted by:

Customer:

Upon receipt for calibration, the instrument was found to be:

Envirotech Services Co.

Address:

Rm.712, 7/F., My Loft, 9 Hoi Wing Road,

Tuen Mun, Hong Kong

☑ Within	
Outside	
the allowable tolerance.	
The test equipments used for calibration are traceable to National Standards via: - The Government of The Hong Kong Special Administrative Region Standard & Calibratory	ibration
Date of receipt: 03 January 2025	
Date of calibration: 06 January 2025	

Calibrated by: ______ Calibration Tachnician

Date of NEXT calibration: 05 January 2026

Certified by:_

Mr. Ng Yan Wa Kaboratory Manager

Date of issue: 06 January 2025

TESTING LABORNO 2 (A+A) *L CONTROL **

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1. Calibration Precautions:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Specifications:

Calibration check

3. Calibration Conditions:

Air Temperature:	22.9°C
Air Pressure:	1019 hP a
Relative Humidity:	33.2 %

4. Calibration Equipment:

Test Equipment	Type	Serial No.	Calibration Report Number	Traceable to
Multifunction Calibrator	B&K 4226	2288467	AV240081	HOKLAS
Sound Level Meter	RION NA-28	30721812	AV240109	HOKLAS

5. Calibration Results

5.1 Sound Pressure Level

Nominal value dB	Accept lower level dB	Accept upper level dB	Measured value dB
94.0	93.6	94.4	94.1
114.0	113.6	114.4	114.1

6. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 60942 Class 1.

Note:

The values given in this certification only related to the values measured at the time of the calibration.



E-mail: inquiry@aa-lab.com

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Homepage: http://www.aa-lab.com

Certificate of Calibration

for

Description:

Sound Level Meter

Manufacturer:

RION

Type No.:

NL-52 (Serial No.: 00175561)

Microphone:

UC-59 (Serial No.: 16651)

Preamplifier:

NH-25 (Serial No.:65663)

Submitted by:

Customer:

Envirotech Services Co.

Address:

Rm.712, 7/F., My Loft, 9 Hoi Wing Road,

Tuen Mun, Hong Kong

Upon receipt for calibration, the instrument was found to be:

 \square Within (31.5Hz – 8kHz)

☐ Outside

the allowable tolerance.

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

Date of receipt: 03 January 2025

Date of calibration: 06 January 2025

Date of NEXT calibration: 05 January 2026

Calibrated by: Calibration Tachnician

____ Certified by:

Mr. Ng Yan Wa Laboratory Manager

Date of issue: 06 January 2025

Certificate No.: APJ24-124-CC001

TESTING LABORATOR TO THE TESTING LABORATOR TO

Acoustics and Air Testing Laboratory Co. Ltd. 聲學及空氣測試實驗室有限公司

1. Calibration Precaution:

- The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 24 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- The results presented are the mean of 3 measurements at each calibration point.

2. Calibration Conditions:

Air Temperature: 22.9 °C
Air Pressure: 1019 hPa
Relative Humidity: 33.2 %

3. Calibration Equipment:

Type Serial No. Calibration Report Number Traceable to

Multifunction Calibrator B&K 4226 2288467 AV240081 HOKLAS

4. Calibration Results

Sound Pressure Level

Reference Sound Pressure Level

Setti	Setting of Unit-under-test (UUT) Applied val		lied value	UUT Reading,	IEC 61672 Class 1		
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
30-130	dBA	SPL	Fast	94	1000	94.0	±0.4

Linearity

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
				94		94.0	Ref
30-130	dBA	SPL	Fast	104	1000	104.0	±0.3
				114		114.1	±0.3

Time Weighting

Setting of Unit-under-test (UUT)		Applied value		UUT Reading,	IEC 61672 Class 1	
Freq.	Weighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
		Fast			94.0	Ref
dBA	dBA SPL	Slow	94	1000	94.0	±0.3
	Freq.		Freq. Weighting dBA SPL Fast	Freq. Weighting Time Weighting Level, dB BA SPL Fast 94	Freq. Weighting Time Weighting Level, dB Frequency, Hz Fast 94 1000	Freq. Weighting Time Weighting Level, dB Frequency, Hz dB Fast 94.0 1000

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Frequency Response

Linear Response

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1	
Range, dB	Freq. We	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	94.2	±2.0
					63	94.3	±1.5
					125	94.2	±1.5
					250	94.2	±1.4
30-130	dB	SPL	Fast	94	500	94.1	±1.4
					1000	94.0	Ref
					2000	93.7	±1.6
					4000	93.2	±1.6
					8000	91.8	+2.1; -3.1

A-weighting

Setting of Unit-under-test (UUT)				Appl	ied value	UUT Reading,	IEC 61672 Class 1
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB
					31.5	54.8	-39.4 ±2.0
					63	68.1	-26.2 ±1.5
					125	78.1	-16.1 ±1.5
					250	85.5	-8.6±1.4
30-130	dBA	SPL	Fast	94	500	90.9	-3.2 ±1.4
					1000	94.0	Ref
					2000	94.9	+1.2 ±1.6
					4000	94.2	`+1.0±1.6
					8000	90.8	-1.1+2.1; -3.1

C-weighting

Setting of Unit-under-test (UUT)			Applied value		UUT Reading,	IEC 61672 Class 1				
Range, dB	Freq. W	eighting	Time Weighting	Level, dB	Frequency, Hz	dB	Specification, dB			
					31.5	91.2	-3.0 ±2.0			
				٥	63	93.4	-0.8 ± 1.5			
		1	dBC SPL Fast 94	dBC SPL Fast				125	94.1	-0.2 ±1.5
		dBC SPL Fast				94		250	94.2	-0.0 ± 1.4
30-130	dBC				Fast		500	94.1	-0.0 ± 1.4	
								1000	94.0	Ref
					2000	93.6	-0.2±1.6			
					4000	92.4	-0.8±1.6			
					8000	88.9	-3.0 +2.1: -3.1			

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5. Calibration Results Applied

The results apply to the particular unit-under-test only. All calibration points are within manufacture's specification as IEC 61672 Class 1.

Uncertainties of Applied Value:

94 dB	31.5 Hz	± 0.15
	63 Hz	± 0.10
	125 Hz	± 0.05
	250 Hz	± 0.05
	500 Hz	± 0.05
	1000 Hz	± 0.05
	2000 Hz	± 0.05
	4000 Hz	± 0.05
	8000 Hz	± 0.10
104 dB	1000 Hz	± 0.05
114 dB	1000 Hz	± 0.05

The uncertainties are evaluated for a 95% confidence level.

Note:

The values given in this certification only related to the values measured at the time of the calibration and any uncertainties quoted will not allow for the equipment long-term drift, variations with environmental changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the calibration. (A+A)*L shall not be liable for any loss or damage resulting from the use of the equipment.

(A+A)*LE

Certificate No.: APJ24-124-CC001



ANNEX F2 MONITORING SCHEDULE FOR NOISE

Tung Chung New Town Extension (East)
Noise Monitoring Schedule (October 2025)

			torning contocatio (
Sunday	Monday	Tuesdav	Wednesdav	Thursday	Friday	Saturdav
			1-Oct	2-Oct	3-Oct	4-Oct
5.0.1	0.0.1	7.0.1	2.0.1	0.0.1	10.0.1	44.0.4
5-Oct	6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct
						l
	Noise Monitoring					Noise Monitoring
12-Oct	13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct
					Noise Monitoring	
19-Oct	20-Oct	21-Oct	22-Oct	23-Oct	24-Oct	25-Oct
19-000	20-001	21-00	22-001	23-001	24-001	25-001
				Noise Meniterina		
				Noise Monitoring		
26-Oct	27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	
		Noise Monitoring				
		1				



ANNEX F3 MONITORING RESULTS FOR NOISE

Table F3.1 Data for Noise Monitoring at Station NMS-CA-1A during Normal Working Hours (0700-1900 hours)

Date & Time	L _{eq (5min)}	L ₁₀	L ₉₀	L _{eq (30min)}
6/10/2025 9:41	66.6	70.1	59.5	66.5
6/10/2025 9:46	66.5	69.6	60.3	
6/10/2025 9:51	66.6	69.1	60.2	
6/10/2025 9:56	66.7	69.3	60.7	
6/10/2025 10:01	63.7	66.2	58.5	
6/10/2025 10:06	67.8	70.9	59.6	
11/10/2025 9:39	68.6	69.6	67.4	
11/10/2025 9:44	68.7	69.8	67.1	
11/10/2025 9:49	68.3	69.6	66.8	
11/10/2025 9:54	69.5	71.3	67.4	69.0
11/10/2025 9:59	69.8	70.7	67.7	1
11/10/2025 10:04	69.2	70.5	67.2	1
17/10/2025 15:17	67.2	68.2	62.4	68.3
17/10/2025 15:22	69.8	71.5	62.0	
17/10/2025 15:27	68.4	70.4	65.8	
17/10/2025 15:32	68.7	71.1	65.9	
17/10/2025 15:37	68.4	72.2	61.1	
17/10/2025 15:42	66.1	68.1	62.7	
23/10/2025 15:10	68.0	70.6	63.8	68.2
23/10/2025 15:15	67.2	69.7	62.7	
23/10/2025 15:20	66.2	79.0	62.2	
23/10/2025 15:25	69.5	71.5	62.6	
23/10/2025 15:30	69.1	71.5	62.7	
23/10/2025 15:35	68.1	70.6	63.2	
28/10/2025 9:09	66.9	69.0	61.6	66.4
28/10/2025 9:14	68.3	71.3	61.7	
28/10/2025 9:19	65.3	68.4	60.9	
28/10/2025 9:24	63.4	65.4	60.0	
28/10/2025 9:29	67.7	71.2	60.8	
28/10/2025 9:34	65.0	67.5	61.5	

Figure F3.1 Graphical Presentation for Noise Monitoring at Station NMS-CA-1A

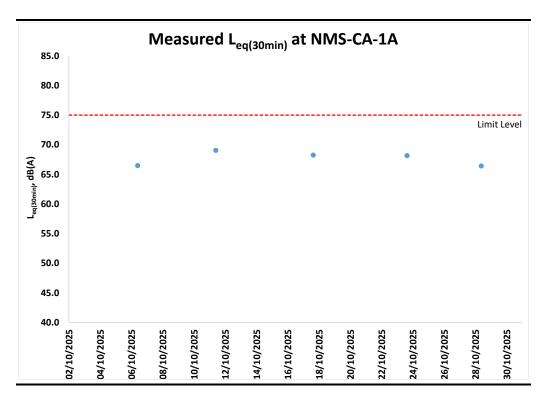
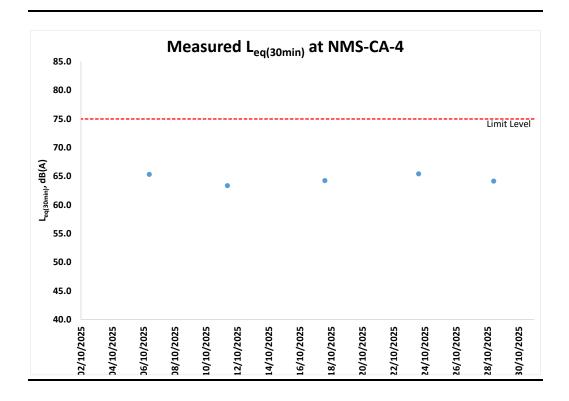


Table F3.2 Data for Noise Monitoring at Station NMS-CA-4 during Normal Working Hours (0700-1900 hours)

Date & Time	L _{eq (5min)}	L ₁₀	L ₉₀	L _{eq (30min)}
6/10/2025 9:03	68.2	69.3	67.3	65.3
6/10/2025 9:08	65.7	67.2	63.1	
6/10/2025 9:13	65.0	67.4	62.8	
6/10/2025 9:18	63.5	64.6	62.5	
6/10/2025 9:23	64.1	65.4	61.9	
6/10/2025 9:28	63.3	64.2	62.3	
11/10/2025 9:03	64.1	65.2	61.5	
11/10/2025 9:08	64.0	65.7	62.1	
11/10/2025 9:13	62.3	64.3	60.3	62.2
11/10/2025 9:18	63.8	65.4	60.7	63.3
11/10/2025 9:23	61.9	63.4	60.4	
11/10/2025 9:28	63.5	65.8	61.1	
17/10/2025 14:40	64.5	65.7	63.0	64.2
17/10/2025 14:45	64.0	65.5	62.6	
17/10/2025 14:50	65.0	67.0	62.9	
17/10/2025 14:55	64.5	66.0	62.7	
17/10/2025 15:00	64.2	65.7	62.4	
17/10/2025 15:05	62.9	64.0	61.5	
23/10/2025 14:33	65.1	66.6	63.7	65.4
23/10/2025 14:38	65.9	67.3	64.4	
23/10/2025 14:43	65.6	66.4	64.7	
23/10/2025 14:48	66.0	68.3	64.0	
23/10/2025 14:53	65.1	67.1	61.9	
23/10/2025 14:58	64.6	65.8	63.1	
28/10/2025 9:51	62.2	63.9	59.8	64.1
28/10/2025 9:56	64.8	67.7	61.2	
28/10/2025 10:01	63.1	64.8	60.3	
28/10/2025 10:06	63.5	65.7	60.5	
28/10/2025 10:11	61.7	63.1	59.9	
28/10/2025 10:16	67.1	68.5	61.7	

Figure F3.2 Graphical Presentation for Noise Monitoring at Station NMS-CA-4





ANNEX F4 EVENT AND ACTION PLAN FOR NOISE

Annex F4 Event and Action Plan for Construction Noise

Event	Action					
Event	ET	IEC	ER	Contractor		
Action Level Exceedance	Notify IEC, ER and Contractor; Carry out investigation;	1. Review the analysed results submitted by the ET;	Confirm receipt of notification of failure in writing;	1. Submit noise mitigation proposals to IEC and ER;		
	3. Report the results of investigation to the IEC, ER and Contractor;4. Discuss with the Contractor and formulate remedial measures;5. Increase monitoring frequency to check mitigation effectiveness.	2. Review the proposed remedial measures by the Contractor and advise the ER accordingly;3. Supervise the implementation of remedial measures.	 Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented 	2. Implement noise mitigation proposals.		
Limit Level Exceedance	 Identify source; Inform IEC, ER, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. 		

ENVIRONMENTAL RESOURCES MANAGEMENT

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT