DataTrac dB Software for NoiseCHEK
User Manual

INTRODUCTION

Checking System Requirements

Ensure your PC meets minimum requirements for DataTrac® dB Software.

Operating System	Microsoft® Windows® 10
Required Software	DataTrac dB Installer (*included with installation)*
Minimum Display Resolution	1024 x 768
Available Port	USB 2.0

Checking Hardware Requirements

- 1-unit Charging Dock Cat. No. 701-002 or 5-unit Charging Dock Cat. No. 701-003
- USB cable
- DataTrac dB Software USB drive
- NoiseCHEK Personal Noise Dosimeter Cat. No. 701-001, 701-001S, 701-001NB, or 701-001NBS

GETTING STARTED

Connecting NoiseCHEK to PC and Installing Software

- *Do not apply stickers to the back of the dosimeter because this can cause connectivity issues while the dosimeter is in the charging dock.*

The NoiseCHEK noise dosimeter communicates with a PC via USB cable and charging dock (1 or 5-unit) and DataTrac dB Software (*see Figure 1*). Connect up to five NoiseCHEK dosimeters in the 5-unit charging dock to upload settings.

1. Connect charging dock to PC using included USB cable.
2. Download from https://www.skcinc.com/catalog/datatrac/DataTracdB/setup.exe or copy from USB drive "setup.exe" and install DataTrac dB as instructed. DataTrac dB will launch automatically.

    🛑 **The DataTrac dB Installer requires administrator privileges to install properly.**

3. Place noise dosimeter(s) in the charging dock to complete the communication train shown in Figure 1. ***Note****: DataTrac dB will only detect dosimeters that are properly seated in the connected charging dock.*

Figure 1. Communication Train

Updating DataTrac dB Software

DataTrac dB will scan automatically for available online updates each time DataTrac dB is launched. If an update is found, the user will be asked to install now, install later, or ignore.

Uninstalling DataTrac dB Software

1. Access the Windows Control Panel on the PC.
2. Select Programs (Programs and Features).
3. Select DataTrac dB.
4. Click Uninstall.

USING DATATRAC dB SOFTWARE

Detecting Devices

Once launched, DataTrac dB software scans for connected devices. The names of detected devices will appear in the Connected devices bar on the upper left corner of the screen (*Figure 2*). If the names of connected devices do not appear automatically in the bar, click Rescan.

To select a connected device, click on its tab in the bar and the tab will become highlighted and the Save Setup to this device button will appear (*Figure 3*).
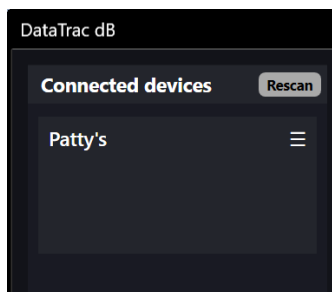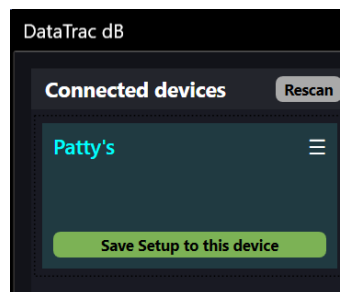
Figure 2. Connected devices Bar

Figure 3. Selected Device Tab

Interacting with DataTrac dB Screens

Click on tabs, buttons, and check boxes with a mouse to select or activate items. Click in boxes and type using keyboard to enter required information.
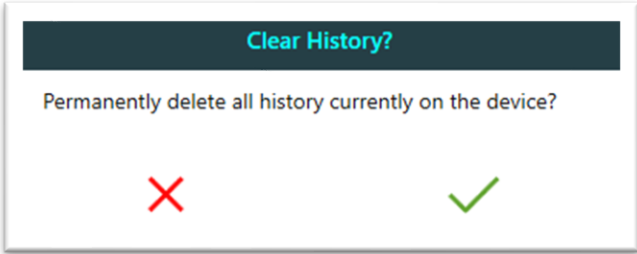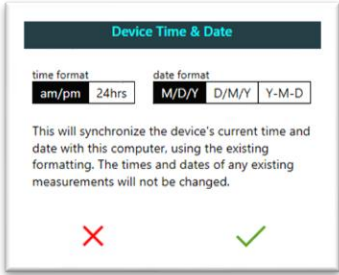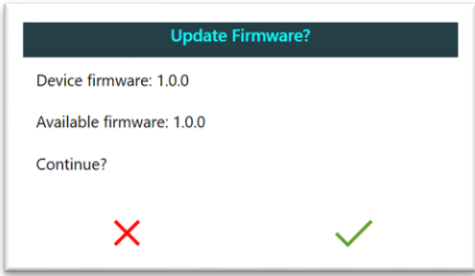
Setting/Changing Device Options

Click on the menu ≣ in the selected device tab (*Figure 4*) to set or change options for selected devices. *See Table 1*.

Figure 4. Device Menu

Table 1. Menu Options in Selected Device Tab

Edit Name: Enter/edit name for device and click on check mark.	**Device Name** **Patty's** Edit the device name ✕　　✓
Clear History: Click on check mark to permanently clear history from selected device(s).	**Clear History?** Permanently delete all history currently on the device? ✕　　✓
Set Time & Date: Select time and date format and click on check mark to save settings.	**Device Time & Date** time format　date format am/pm 24hrs　M/D/Y D/M/Y Y-M-D This will synchronize the device's current time and date with this computer, using the existing formatting. The times and dates of any existing measurements will not be changed. ✕　　✓
Update Firmware: Click on check mark to update firmware to latest version.	**Update Firmware?** Device firmware: 1.0.0 Available firmware: 1.0.0 Continue? ✕　　✓

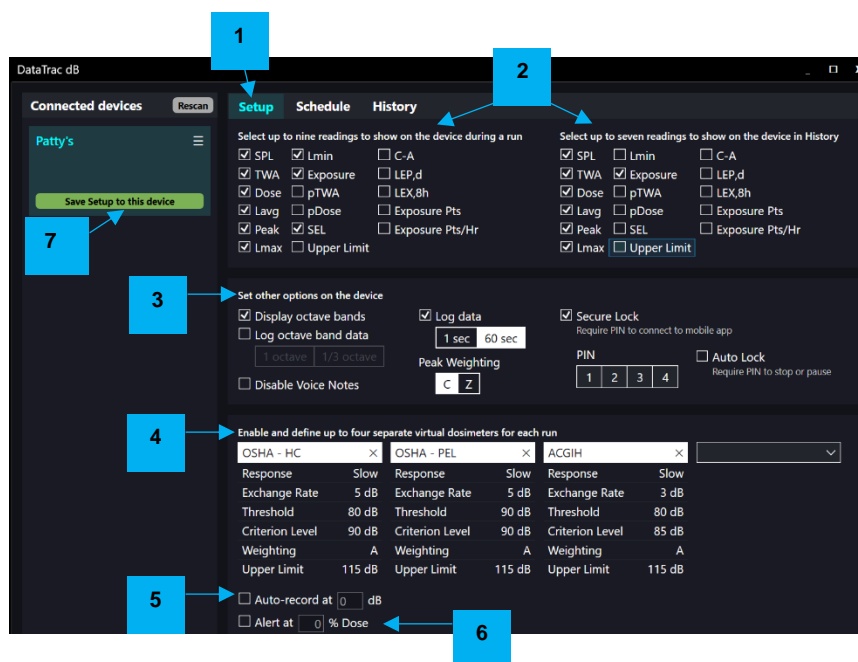**Programming and Uploading Presets —** *Setup Tab (Figure 5)*

Figure 5. Setup Tab

1. With device name(s) highlighted in selected device tab, select Setup tab.
2. Select measurement readings to be shown on device (up to nine) and in History (up to seven).
3. Select options on device (see left to right in Figure 5) as desired:

   ✋ **When all four virtual dosimeters and octave band data logging are enabled and log data is set to 1 second, it will take approximately 3 hours (1/3 octave) or 1 hour (1 octave) to download data accumulated during an 8-hour run. Select log octave band data and 1 second log interval** <u>only</u> **if you need and intend to use this kind of data.**

   Octave bands — Activate octave band view and/or octave band datalogging to display octave bands on virtual dosimeters and/or log octave band data.

   Log Data — Set desired data logging rate.

   Secure Lock — Activate/deactivate as desired. Secure Lock enables Auto Lock.

   a. **Secure Lock** requires a PIN (four-digit using 1234) to connect to SKC SmartWave dB mobile app. **NoiseCHEK ships with Secure Lock activated and PIN set to 1234.**

   b. **Auto Lock** requires a PIN to **pause** or **stop** sampling using the dosimeter buttons. All other commands are available on the device including start sampling.

   Disable Voice Notes — Select or deselect Disable Voice Notes as desired.

   Peak Weighting — Select C or Z peak weighting. *Note: 'A' peak weighting is an option in User Custom virtual dosimeter. See Defining User Custom Virtual Dosimeter.*

4. Select/enable virtual dosimeters. Click on drop-down menu and select from OSHA HC, OSHA PEL, MSHA HC, MSHA PEL, ACGIH, and User Custom (*see Defining a User Custom Virtual Dosimeter*). **Note***: To disable a programmed virtual dosimeter, click on the X next to the dosimeter nam*e.

5. Activate **Auto-record** feature to enable audio recording of an event exceeding the set dB level. 0 dB level deactivates audio recording. The length of a single stored audio event is 10 seconds. The noise dosimeter can store up to 24 such events, after which new recordings will overwrite the oldest ones. The event log will still note recordings that are overwritten. Auto-threshold audio recordings and other events are indicated in the History summary. *See View and Export Run/History Summary.*

6. Activate **Alert** feature at set % Dose. If the set level is exceeded, the amber LEDs will flash in an alternating pattern with green LEDs, approximately every 2 seconds.

7. Click on Save Setup to this device to upload presets to selected dosimeter(s). A check mark appears briefly under the device name to indicate that presets have been saved.

Defining a User Custom Virtual Dosimeter (Figure 6)
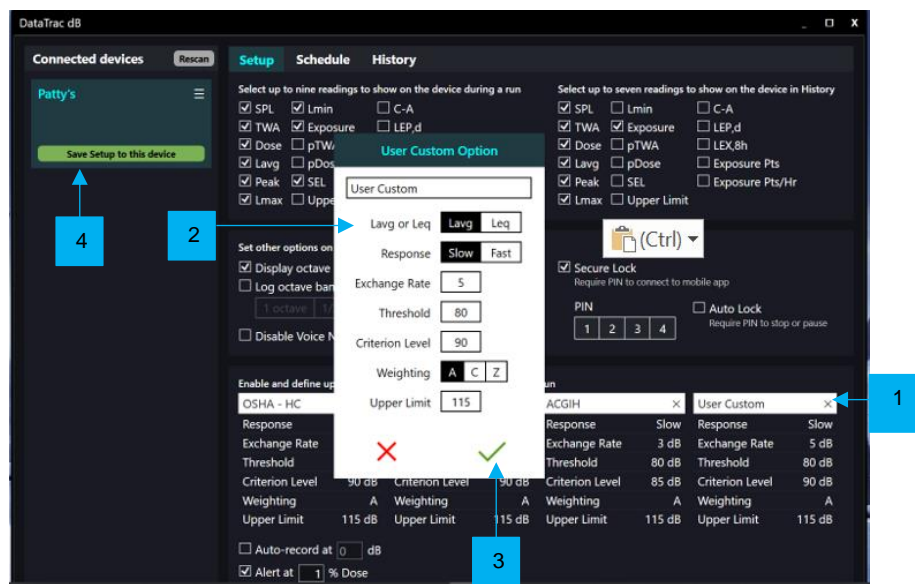

Figure 6. User Custom Option

1. Select User Custom from virtual dosimeter dropdown.

2. Select and enter desired custom virtual dosimeter name and measurements in the pop-up User Custom Option window.

3. Click on the check mark to save settings.

4. Click Save Setup to this device in selected device tab to upload settings. *Note: When multiple devices are connected in the 5-unit charging dock, click Save Setup to this device in **each** selected device tab so that the settings are uploaded to all the devices.*

Scheduling Sample Runs —Schedule Tab (*Figure 7*)
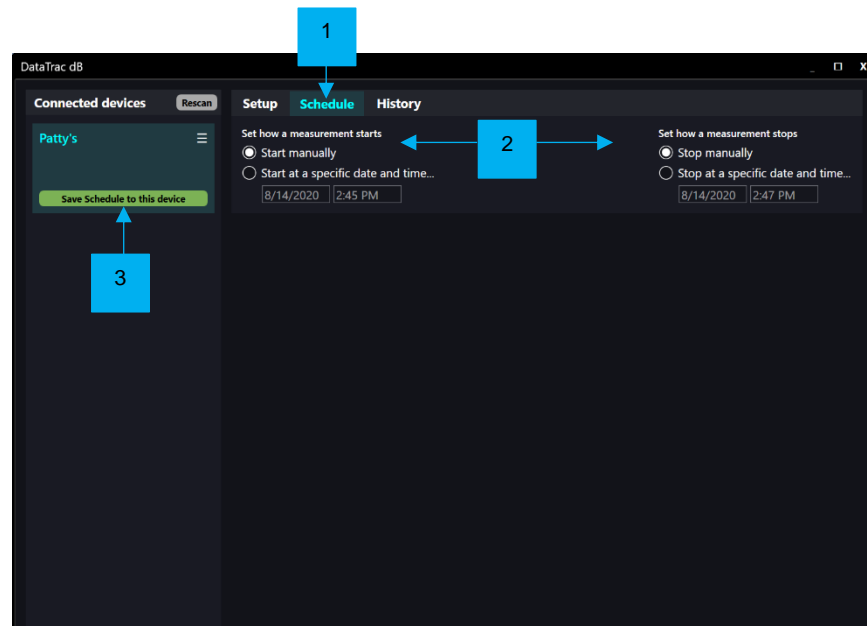

Figure 7. Schedule Screen (Manual Start/Stop Selected)

1. Select Schedule tab.
2. Select manual or scheduled start/stop for measurement. Manual start and stop are selected in Figure 7; for scheduled start/stop, select "Start/Stop at a specific date and time…" and enter desired dates and times.
3. Click Save Schedule to this device to upload schedule to selected NoiseCHEK dosimeters.

Downloading/Managing Sampling History — History Tab

- *Download history as often as possible to keep all history records. When a device memory is full, it will automatically record over the oldest records.*
- *Download history as often as possible as it may take hours/days to download a full memory.*
- *The number of hours of sampling time stored in History ranges from 36 to 135 hours. It depends on sampling rate, number of virtual dosimeters enabled, and whether octave bands are activated. At slower sampling rates and with fewer virtual dosimeters enabled and octave bands not enabled, a device can store more hours.*
- *DataTrac dB will not download data to a PC if the same data is already there.*
- *History can be deleted using DataTrac dB software (see Clear History in Table 1), but there is no need to do so as the noise dosimeter will automatically record over the oldest records when its memory is full.*
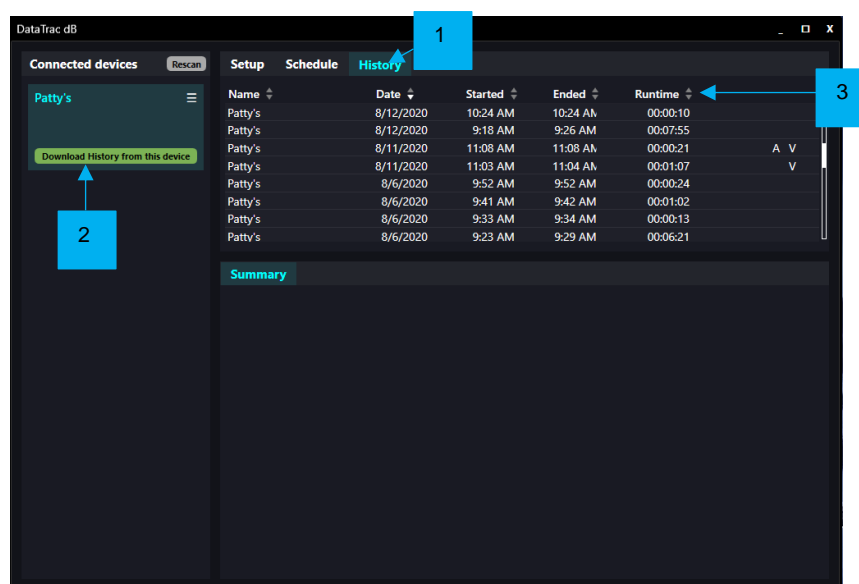
Download History to PC (Figure 8)

Figure 8. History Tab – Download History

1. Select History tab.
2. In the selected device tab, click Download History from this device for sample run history. The downloaded history will be displayed.
3. Sort History records by device name, date, start/stop times, or run duration by clicking on the up/down arrows next to the selected parameter.
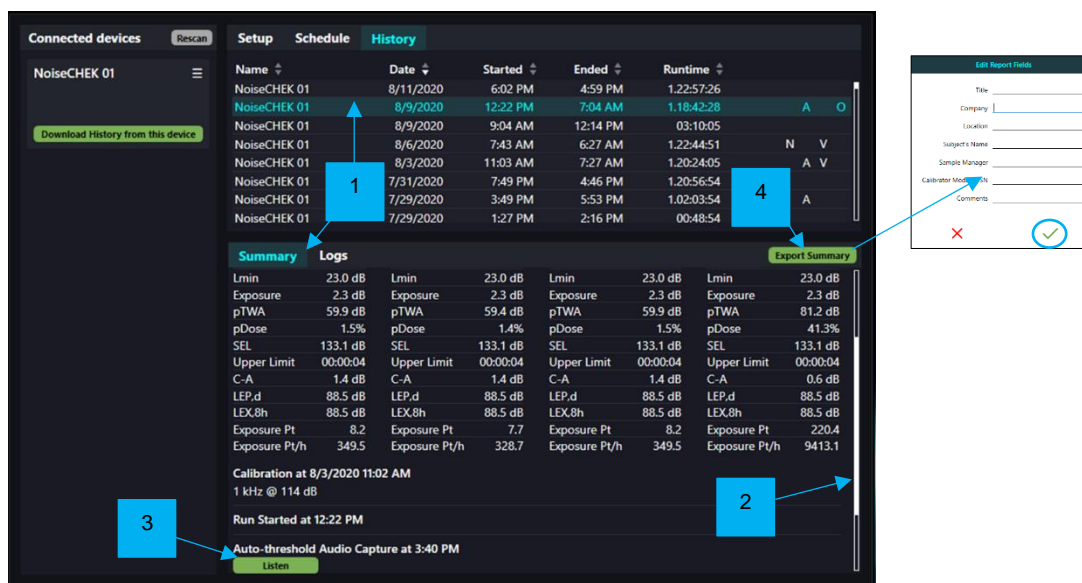
View and Export Run History/Summary (Figure 9)

Figure 9. History – Run Summary

1. Select desired run from list to see its history under the Summary tab. **Note**: *The notations N, A, V, and O in a run history line indicate text notes, auto-threshold audio recording, voice note, and overload. See Run History Notations below for details.*

2. Use the vertical bar on the right side to scroll through the run data.

3. To hear auto-threshold audio recording or voice note, click on Listen. To add text notes to the summary report before exporting it, *see Add Notes to Summary Report.*

4. Click on Export Summary. In Edit Report Fields window, enter required information. Click on check mark and save to your PC. *See Appendix B for sample summary report.*

<u>Run History Notations.</u> N, A, V, and O notations (*see right*) signify the following:

N   Text note added from the mobile app before connecting device(s) to the PC or added in DataTrac dB software after connecting device(s) to the PC. *See Add Notes to Summary Report.*

A   Audio recording above set threshold. Click Listen (*Figure 9*) to hear the recording.

V   Voice note present. Click Listen to hear it.

O   Overload – During the sample run, sound pressure level exceeded 140 dB for > 4 milliseconds.
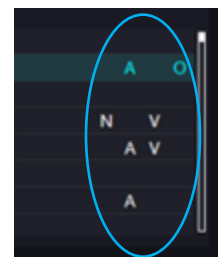
Add Notes to Summary Report (Figure 10)

1. At end of run summary, click Add a New Note.
2. Enter text in the pop-up window.
3. Click the check mark to save. The note will appear on the summary and all saved text notes will be uploaded when you export the summary.
4. To edit a note before exporting the summary, click Edit Note and repeat Steps 2 and 3.

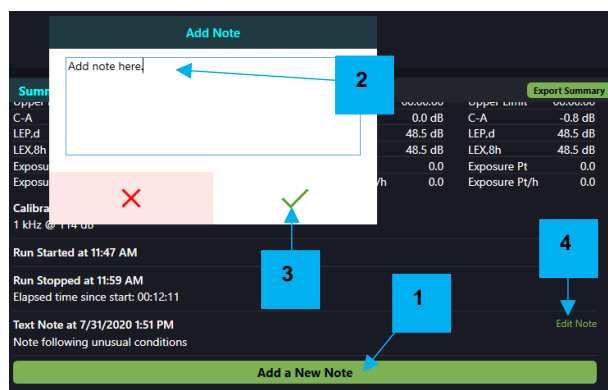*Figure 10. Add a New Note to Summary Report*

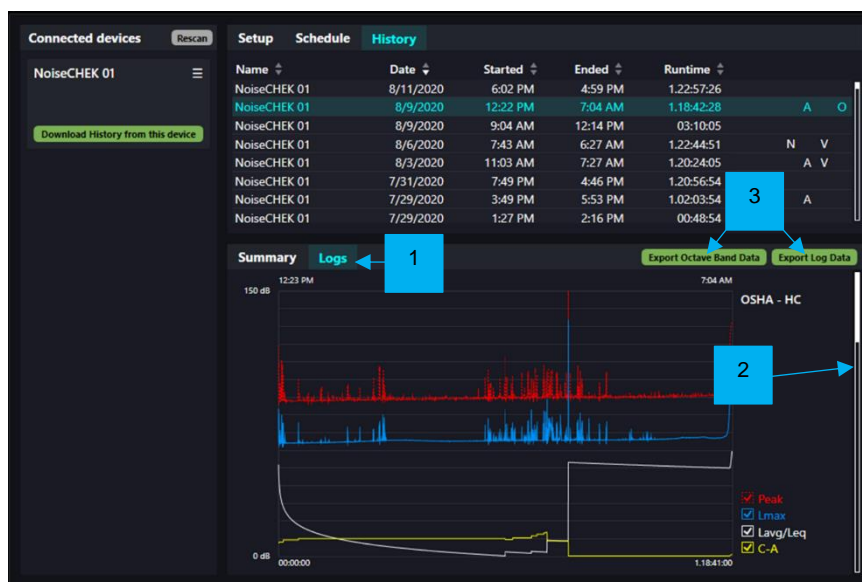### View and Export History/Graphs (Figure 11)

Figure 11. History — Data Logs

1. Select Logs tab to view data graphs.
2. Use the vertical bar on the right to scroll to the data graph for each virtual dosimeter.
3. Click Export Octave Band Data or Export Log Data to export desired data into an Excel file and save to a PC. *See Appendix C for sample Excel file.*

SOFTWARE NOTES

Version   What's New
V.1.0.2   -Issue version

APPENDICES
Appendix A

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Appendix B: Sample Summary Report

SKC
NoiseChek Noise Dosimeter

Patty's
Serial Number: 18S1RM512077043

Device Setup

OSHA - HC		OSHA - PEL		MSHA - PEL		ACGIH	
Response	Slow	Response	Slow	Response	Slow	Response	Slow
Threshold	80	Threshold	90	Threshold	90	Threshold	80
Upper Limit	115	Upper Limit	115	Upper Limit	115	Upper Limit	115
Exchange Rate	5	Exchange Rate	5	Exchange Rate	5	Exchange Rate	3
Criterion Level	90	Criterion Level	90	Criterion Level	90	Criterion Level	85
RMS Weighting	A	RMS Weighting	A	RMS Weighting	A	RMS Weighting	A

Measurement Summary Information
Pre Calibration: 1 kHz @ 114 dB, 7/27/2020 7:41:37 AM
Run Started: 7/27/2020 11:47:28 AM
Run Ended: 7/27/2020 11:59:39 AM
Total Runtime: 00:12:11

OSHA - HC		OSHA - PEL		MSHA - PEL		ACGIH	
TWA	4.7 dBA	TWA	0.0 dBA	TWA	0.0 dBA	TWA	35.1 dBA
Dose	0.0%	Dose	0.0%	Dose	0.0%	Dose	0.0%
Lavg	31.2 dbA	Lavg	0.0 dbA	Lavg	0.0 dbA	Leq	64.4 dBA
Lmax	82.1 dbA	Lmax	82.1 dbA	Lmax	82.1 dbA	Lmax	82.1 dbA
Lmin	21.1 dBA	Lmin	21.1 dBA	Lmin	21.1 dBA	Lmin	21.1 dBA
Peak	112.2 dB	Peak	112.2 dB	Peak	112.2 dB	Peak	112.2 dB
Exposure	0.0 Pa²-h	Exposure	0.0 Pa²-h	Exposure	0.0 Pa²-h	Exposure	0.0 Pa²-h
ULT	00:00:00	ULT	00:00:00	ULT	00:00:00	ULT	00:00:00
SEL	93.1 dBA	SEL	93.1 dBA	SEL	93.1 dBA	SEL	93.1 dBA
pTWA	31.2 dBA	pTWA	0.0 dBA	pTWA	0.0 dBA	pTWA	51.0 dBA
pDose	0.0%	pDose	0.0%	pDose	0.0%	pDose	0.0%
C-A	-1.2 dB	C-A	0.0 dB	C-A	0.0 dB	C-A	-0.8 dB
LEP,d	48.5 dBA	LEP,d	48.5 dBA	LEP,d	48.5 dBA	LEP,d	48.5 dBA
LEX,8h	48.5 dBA	LEX,8h	48.5 dBA	LEX,8h	48.5 dBA	LEX,8h	48.5 dBA
Exp. Pts.	0.0	Exp. Pts.	0.0	Exp. Pts.	0.0	Exp. Pts.	0.0
Exp. Pts/h	0.0	Exp. Pts/h	0.0	Exp. Pts/h	0.0	Exp. Pts/h	0.0

Appendix C: Sample Log Data Imported into Microsoft Excel

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Elapsed Ti	Overload	Peak	Lmax 1	Leq or Lav	C-A 1	Lmax 2	Leq or Lav	C-A 2	Lmax 3	Leq or Lav	C-A 3	Lmax 4	Leq or Lav	C-A 4
2	0:01:00	0	99	70	0	0	70	0	0	70	0	0	70	62.9	
3	0:02:00	0	86.3	64	0	0	64	0	0	64	0	0	64	62.5	
4	0:03:00	0	87.1	67.4	0	0	67.4	0	0	67.4	0	0	67.4	63.4	
5	0:04:00	0	87	67.1	0	0	67.1	0	0	67.1	0	0	67.1	64.3	
6	0:05:00	0	87.4	66.3	0	0	66.3	0	0	66.3	0	0	66.3	64.2	
7	0:06:00	0	87.4	67.5	0	0	67.5	0	0	67.5	0	0	67.5	64.6	
8	0:07:00	0	87.6	66.4	0	0	66.4	0	0	66.4	0	0	66.4	64.1	
9	0:08:00	0	87.1	66.7	0	0	66.7	0	0	66.7	0	0	66.7	64.1	
10	0:09:00	0	109.9	81	25.2	0	81	0	0	81	0	0	81	66.4	
11	0:10:00	0	91.1	68.3	24.4	0	68.3	0	0	68.3	0	0	68.3	63.5	
12	0:11:00	0	87.5	64.4	23.7	0	64.4	0	0	64.4	0	0	64.4	63.2	
13	0:12:00	0	87.4	65.9	23.1	0	65.9	0	0	65.9	0	0	65.9	64.5	