Noise emissions of industry sources

Source name	Size m/m²	Reference	Level Day dB(A)	Evening dB(A)	Night dB(A)	Corrections Cwall dB	CI dB	CT dB
Construction Site	9122 m²	Lw/unit	112.4	-	-	-	-	-

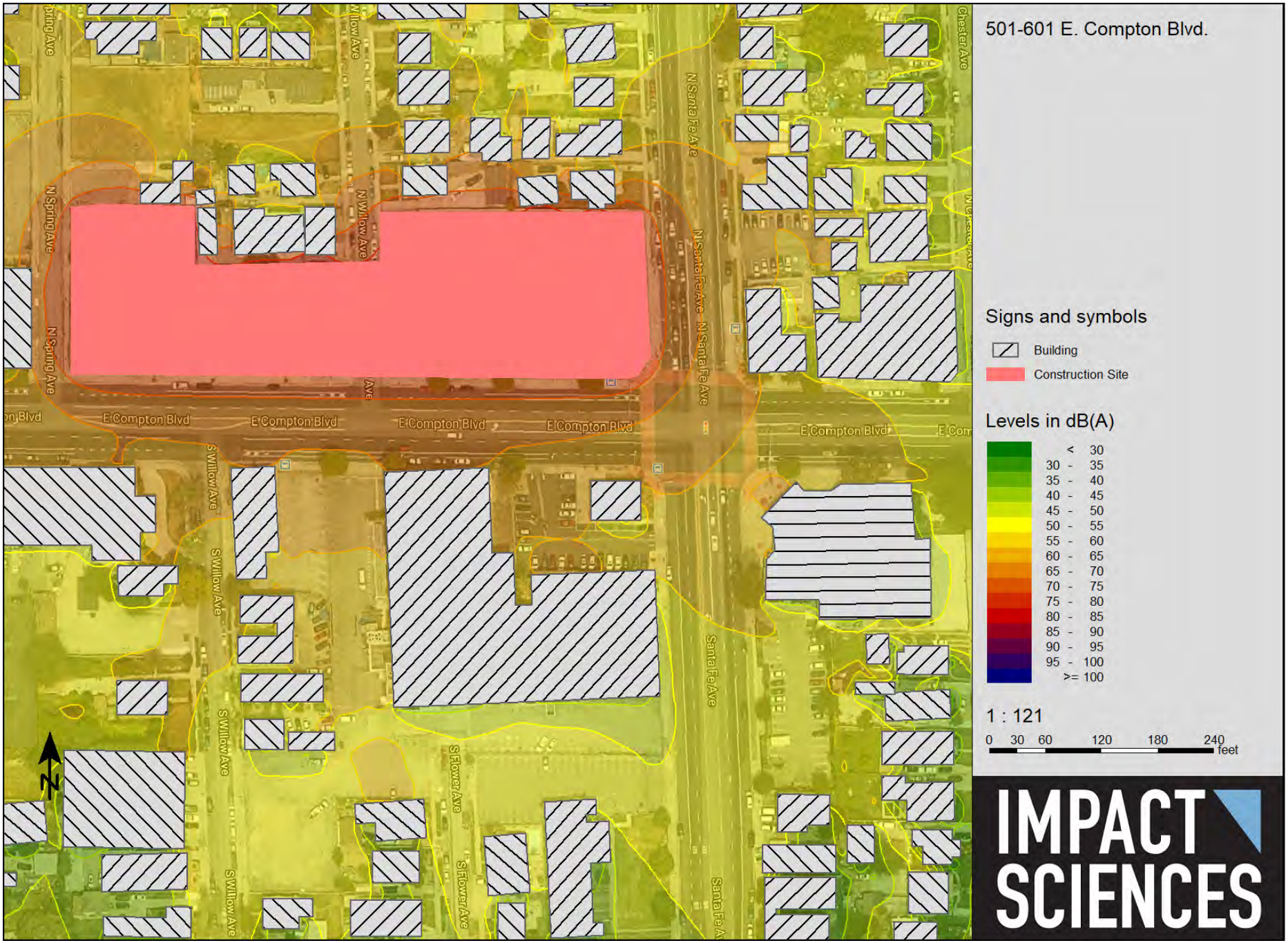
Contribution levels of the receivers

Source name		Traffic lane	Level w/o NP Day dB(A)	Level w NP Day dB(A)
Lifeline Education Charter School	GF		52.1	51.9
Construction Site		-	52.1	51.9
Residence - S. Willow Avenue	GF		59.0	59.0
Construction Site		-	59.0	59.0
Residence - Santa Fe Avenue	GF		67.4	58.6
Construction Site		-	67.4	58.6
Residence North Spring Avenue	GF		70.8	61.3
Construction Site		-	70.8	61.3

Receiver list

No.	Receiver name	Coordinates X Y in meter	Building side	Floor	Height abv.grd. m	Limit Day dB(A)	Level w/o Day dB(A)	Level w NF Day dB(A)	Difference Day dB	Conflict Day dB
1	Lifeline Education Charter Schoo	11387538.3 3751170.0	North	GF	22.92	-	52.1	51.9	-0.2	-
2	Residence - S. Willow Avenue	11387411.. 3751246.4	North	GF	23.17	-	59.0	59.0	0.1	-
3	Residence - Santa Fe Avenue	11387555.3 3751365.0	East	GF	23.35	-	67.4	58.6	-8.7	-
4	Residence North Spring Avenue	11387401.. 3751364.7	West	GF	23.69	-	70.8	61.3	-9.5	-


501-601 E. Compton Blvd.
1 70.8
4
1 67.4
3
1 59.0
2
1 52.1
1
N Spring Ave
N Willow Ave
N Santa Fe Ave
Chester Ave
E Compton Blvd
S Willow Ave
S Flower Ave
Santa Fe Ave
Signs and symbols
Building
Receiver at building
Construction Site
1 : 121
0 30 60 120 180 240
feet
IMPACT SCIENCES


501-601 E. Compton Blvd.
Signs and symbols
Building
Construction Site
Levels in dB(A)
< 30
30 - 35
35 - 40
40 - 45
45 - 50
50 - 55
55 - 60
60 - 65
65 - 70
70 - 75
75 - 80
80 - 85
85 - 90
90 - 95
95 - 100
>= 100
1 : 121
0 30 60 120 180 240
feet
N
E Compton Blvd
N Spring Ave
N Willow Ave
N Santa Fe Ave
S Willow Ave
S Flower Ave
Santa Fe Ave
Chester Ave
IMPACT SCIENCES


501-601 E. Compton Blvd.
1 61.3
4
1 58.6
3
1 59.0
2
1 51.9
1
N Spring Ave
N Willow Ave
N Santa Fe Ave
Chester Ave
E Compton Blvd
S Willow Ave
S Flower Ave
Santa Fe Ave
N
Signs and symbols
Wall
Building
Receiver at building
Construction Site
1 : 121
0 30 60 120 180 240
feet
IMPACT SCIENCES


501-601 E. Compton Blvd.
Signs and symbols
Wall
Building
Construction Site
Levels in dB(A)
< 30
30 - 35
35 - 40
40 - 45
45 - 50
50 - 55
55 - 60
60 - 65
65 - 70
70 - 75
75 - 80
80 - 85
85 - 90
90 - 95
95 - 100
>= 100
1 : 121
0 30 60 120 180 240
feet
E Compton Blvd
N Spring Ave
N Willow Ave
N Santa Fe Ave
S Willow Ave
S Flower Ave
Santa Fe Ave
Chester Ave
IMPACT SCIENCES

Cumulative Noise Impacts (Without Mitigation)

Source	Sound Pressure Level
Saw	76
Dozer	85
Loader	80
Backhoe	80
Backhoe	80
Dozer	85
Loader	80
Dozer	85
Total	**89.9**

Construction Noise Impacts (without Mitigation

Reference	15.24	meter
Sound Pressure Level	89.9	dBA

Receptor	Existing Leq	Noise	New Leq	Difference Leq	Significant?
Residence - Spring Avenue	58.3	70.8	71.0	12.7	**Yes**
Residence - Santa Fe Avenue	63.5	67.4	68.9	5.4	**Yes**
Lifeline Education Charter School	66.8	52.1	66.9	0.1	**No**
Residence - Willow Avenue	56.7	59.0	61.0	4.3	**No**

Construction Noise Impacts (with Mitigation)

Reference	15.24	meter
Sound Pressure Level	86.6	dBA

Receptor	Existing Leq	Noise	New Leq	Difference Leq	Significant?
Residence - Spring Avenue	58.3	61.3	63.1	4.8	**No**
Residence - Santa Fe Avenue	63.5	58.6	64.7	1.2	**No**
Lifeline Education Charter School	66.8	51.9	66.9	0.1	**No**
Residence - Willow Avenue	56.7	59.0	61.0	4.3	**No**

Mitigation Measures

Temporary Sound Barrier 8.2 feet

Summary

File Name on Meter	LxT_Data.062
File Name on PC	SLM_0005667_LxT_Data_062.00.ldbin
Serial Number	0005667
Model	SoundTrack LxT®
Firmware Version	2.302
User	Impact Sciences, Inc.
Location	501 E. Compton Blvd.
Job Description	Noise Measurements
Note	

Measurement

Description	
Start	2020-10-14 08:03:14
Stop	2020-10-14 08:27:18
Duration	00:17:01.2
Run Time	00:16:24.2
Pause	00:00:37.0
Pre Calibration	2019-04-25 10:16:43
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Slow
Preamp	PRMLxT1
Microphone Correction	Off
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	A Weighting
OBA Max Spectrum	Bin Max
Overload	144.4 dB

	A	**C**
Under Range Peak	100.7	97.7
Under Range Limit	**49.7**	47.7
Noise Floor	36.6	37.2

Results

LA_{eq}	58.3	dB
LAE	88.2	dB
EA	73.754	µPa²h
EA8	2.158	mPa²h
EA40	10.791	mPa²h
$LZ_{peak\ (max)}$	2020-10-14 08:23:14	97.2

LASmax	2020-10-14 08:23:14		74.1
LASmin	2020-10-14 08:22:10		47.6
SEA	-99.9	dB	

LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0

LCeq	67.5	dB
LAeq	58.3	dB
LCeq - LAeq	9.2	dB
LAIeq	60.1	dB
LAeq	58.3	dB
LAIeq - LAeq	1.8	dB

	A	
	dB	**Time Stamp**
Leq	58.3	
LS(max)	74.1	2020/10/14 8:23:14
LS(min)	47.6	2020/10/14 8:22:10
LPeak(max)		

# Overloads	0	
Overload Duration	0.0	s
# OBA Overloads	0	
OBA Overload Duration	0.0	s

Dose Settings		
Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5
Threshold	90	80
Criterion Level	90	90
Criterion Duration	8	8

Results		
Dose	-99.9	-99.9
Projected Dose	-99.9	-99.9
TWA (Projected)	-99.9	-99.9
TWA (t)	-99.9	-99.9
Lep (t)	43.6	43.6

Statistics		
LAS5.00	64.9	dB
LAS10.00	63.0	dB
LAS33.30	55.2	dB
LAS50.00	52.9	dB
LAS66.60	51.5	dB

LAS90.00	49.2 dB

Z

102.7 dB

55.7 dB

44.8 dB

dB

dB
dB

s
s
s
s
s

C		Z	
dB	Time Stamp	dB	Time Stamp
67.5			
		97.2	2020/10/14 8:23:14

dB
dB
dB
h

%
%
dB
dB
dB

Summary

File Name on Meter	LxT_Data.063
File Name on PC	SLM_0005667_LxT_Data_063.00.ldbin
Serial Number	0005667
Model	SoundTrack LxT®
Firmware Version	2.302
User	Impact Sciences, Inc.
Location	501 E. Compton Blvd.
Job Description	Noise Measurements
Note	

Measurement

Description	
Start	2020-10-14 08:33:10
Stop	2020-10-14 08:48:10
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2019-04-25 10:16:43
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Slow
Preamp	PRMLxT1
Microphone Correction	Off
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	A Weighting
OBA Max Spectrum	Bin Max
Overload	144.4 dB

	A	**C**
Under Range Peak	100.7	97.7
Under Range Limit	**49.7**	47.7
Noise Floor	36.6	37.2

Results

LA_{eq}	63.5 dB	
LAE	93.1 dB	
EA	225.935 μPa^2h	
EA8	7.230 mPa^2h	
EA40	36.150 mPa^2h	
$LZ_{peak\ (max)}$	2020-10-14 08:42:14	102.4

LASmax	2020-10-14 08:47:18		74.0
LASmin	2020-10-14 08:38:55		49.7
SEA	-99.9	dB	

LAS > 85.0 dB (Exceedance Counts / Duration)	0		0.0
LAS > 115.0 dB (Exceedance Counts / Duration)	0		0.0
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0		0.0
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0		0.0
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0		0.0

LCeq	74.0	dB
LAeq	63.5	dB
LCeq - LAeq	10.5	dB
LAIeq	66.3	dB
LAeq	63.5	dB
LAIeq - LAeq	2.7	dB

	A	
	dB	**Time Stamp**
Leq	63.5	
LS(max)	74.0	2020/10/14 8:47:18
LS(min)	49.7	2020/10/14 8:38:55
LPeak(max)		

# Overloads	0	
Overload Duration	0.0	s
# OBA Overloads	0	
OBA Overload Duration	0.0	s

Dose Settings		
Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5
Threshold	90	80
Criterion Level	90	90
Criterion Duration	8	8

Results		
Dose	-99.9	-99.9
Projected Dose	-99.9	-99.9
TWA (Projected)	-99.9	-99.9
TWA (t)	-99.9	-99.9
Lep (t)	48.5	48.5

Statistics		
LAS5.00	69.6	dB
LAS10.00	67.5	dB
LAS33.30	62.3	dB
LAS50.00	60.3	dB
LAS66.60	58.3	dB

LAS90.00	53.9 dB

Z

102.7 dB

55.7 dB

44.8 dB

dB

dB
dB

s
s
s
s
s

C		Z	
dB	Time Stamp	dB	Time Stamp
74.0			
		102.4	2020/10/14 8:42:14

dB
dB
dB
h

%
%
dB
dB
dB

Summary

File Name on Meter	LxT_Data.064
File Name on PC	SLM_0005667_LxT_Data_064.00.ldbin
Serial Number	0005667
Model	SoundTrack LxT®
Firmware Version	2.302
User	Impact Sciences, Inc.
Location	501 E. Compton Blvd.
Job Description	Noise Measurements
Note	

Measurement

Description	
Start	2020-10-14 08:54:39
Stop	2020-10-14 09:09:39
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2019-04-25 10:16:43
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Slow
Preamp	PRMLxT1
Microphone Correction	Off
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	A Weighting
OBA Max Spectrum	Bin Max
Overload	144.4 dB

	A	**C**
Under Range Peak	100.7	97.7
Under Range Limit	**49.7**	47.7
Noise Floor	36.6	37.2

Results

LA_{eq}	66.8	dB	
LAE	96.3	dB	
EA	476.737	µPa²h	
EA8	15.256	mPa²h	
EA40	76.278	mPa²h	
$LZ_{peak\ (max)}$	2020-10-14 09:05:52		104.0

LASmax	2020-10-14 08:55:24		81.3
LASmin	2020-10-14 09:00:12		43.6
SEA	-99.9	dB	

LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0

LCeq	74.8	dB
LAeq	66.8	dB
LCeq - LAeq	8.0	dB
LAIeq	68.5	dB
LAeq	66.8	dB
LAIeq - LAeq	1.8	dB

	A	
	dB	**Time Stamp**
Leq	66.8	
LS(max)	81.3	2020/10/14 8:55:24
LS(min)	43.6	2020/10/14 9:00:12
LPeak(max)		

# Overloads	0	
Overload Duration	0.0	s
# OBA Overloads	0	
OBA Overload Duration	0.0	s

Dose Settings		
Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5
Threshold	90	80
Criterion Level	90	90
Criterion Duration	8	8

Results		
Dose	-99.9	0.00
Projected Dose	-99.9	0.05
TWA (Projected)	-99.9	35.4
TWA (t)	-99.9	10.4
Lep (t)	51.7	51.7

Statistics		
LAS5.00	72.4	dB
LAS10.00	70.8	dB
LAS33.30	65.2	dB
LAS50.00	61.2	dB
LAS66.60	56.6	dB

LAS90.00 50.8 dB

Z

102.7 dB

55.7 dB

44.8 dB

dB

dB
dB

s
s
s
s
s

C		Z	
dB	Time Stamp	dB	Time Stamp
74.8			
		104.0	2020/10/14 9:05:52

dB
dB
dB
h

%
%
dB
dB
dB

Summary

File Name on Meter	LxT_Data.065
File Name on PC	SLM_0005667_LxT_Data_065.00.ldbin
Serial Number	0005667
Model	SoundTrack LxT®
Firmware Version	2.302
User	Impact Sciences, Inc.
Location	501 E. Compton Blvd.
Job Description	Noise Measurements
Note	

Measurement

Description	
Start	2020-10-14 09:16:06
Stop	2020-10-14 09:31:06
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2019-04-25 10:16:43
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Slow
Preamp	PRMLxT1
Microphone Correction	Off
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	A Weighting
OBA Max Spectrum	Bin Max
Overload	144.4 dB

	A	**C**
Under Range Peak	100.7	97.7
Under Range Limit	**49.7**	47.7
Noise Floor	36.6	37.2

Results

LA_{eq}	56.7	dB
LAE	86.2	dB
EA	46.743	µPa²h
EA8	1.496	mPa²h
EA40	7.479	mPa²h
$LZ_{peak\ (max)}$	2020-10-14 09:22:48	94.9

LASmax	2020-10-14 09:20:14		65.2
LASmin	2020-10-14 09:22:06		47.3
SEA	-99.9	dB	

LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0

LCeq	66.4	dB
LAeq	56.7	dB
LCeq - LAeq	9.7	dB
LAIeq	59.6	dB
LAeq	56.7	dB
LAIeq - LAeq	2.9	dB

	A	
	dB	**Time Stamp**
Leq	56.7	
LS(max)	65.2	2020/10/14 9:20:14
LS(min)	47.3	2020/10/14 9:22:06
LPeak(max)		

# Overloads	0	
Overload Duration	0.0	s
# OBA Overloads	0	
OBA Overload Duration	0.0	s

Dose Settings		
Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5
Threshold	90	80
Criterion Level	90	90
Criterion Duration	8	8

Results		
Dose	-99.9	-99.9
Projected Dose	-99.9	-99.9
TWA (Projected)	-99.9	-99.9
TWA (t)	-99.9	-99.9
Lep (t)	41.6	41.6

Statistics		
LAS5.00	61.3	dB
LAS10.00	60.2	dB
LAS33.30	57.0	dB
LAS50.00	55.0	dB
LAS66.60	52.8	dB

LAS90.00 49.9 dB

Z

102.7 dB

55.7 dB

44.8 dB

dB

dB
dB

s
s
s
s
s

C		Z	
dB	Time Stamp	dB	Time Stamp
66.4			
		94.9	2020/10/14 9:22:48

dB
dB
dB
h

%
%
dB
dB
dB