

# \* Villa Fiorentina

Villa Florentina  
 Sound Study  
 4.24.17

Criteria: Audio Measurements based at Villa Florentina North central corner  
 38°48'28.8"N 120°53'30.8"W 38.808000, -120.891889  
 Sequential measurements are made at 10' intervals at a 10' proximity to Villa Florentina property line  
 Measurements begin at the most southern point and proceed to the north  
 Measurements 7, 8, 9, 10, & 11 are taken at the closest proximity to north central corner  
 Control measurements are averaged on baseline of environmental noise  
 All findings are in accordance with El Dorado County Policy 6.5.1 Table 2

Audio source location: Ceremony Lawn - Pink Noise

A-Weighted Fast-Response	Control	1	2	3	Average
1	50	50	51	53	51.3333
2	49	51	53	50	51.3333
3	47	50	51	47	49.3333
4	51	54	51	52	52.3333
5	57	55	51	50	52
6	45	55	51	50	52
7	49	54	51	52	52.3333
8	51	53	51	51	51.6667
9	48	51	50	52	51
10	50	51	50	54	51.6667
11	47	53	54	56	54.3333
12	48	57	55	54	55.3333
13	51	53	58	57	56
14	47	52	51	55	52.6667
15	48	56	53	51	53.3333
16	50	57	60	55	57.3333
17	49	63	60	52	58.3333

Overall Average 53.0784

Notes: Neighbor started mowing lawn on measurement 16  
 Secondary measurements agreed upon at a centralized location within the Ceremony lawn were based on findings in Table 1  
 Ceremony Lawn average of 65dB-SPL determined as suitable level for venue activities

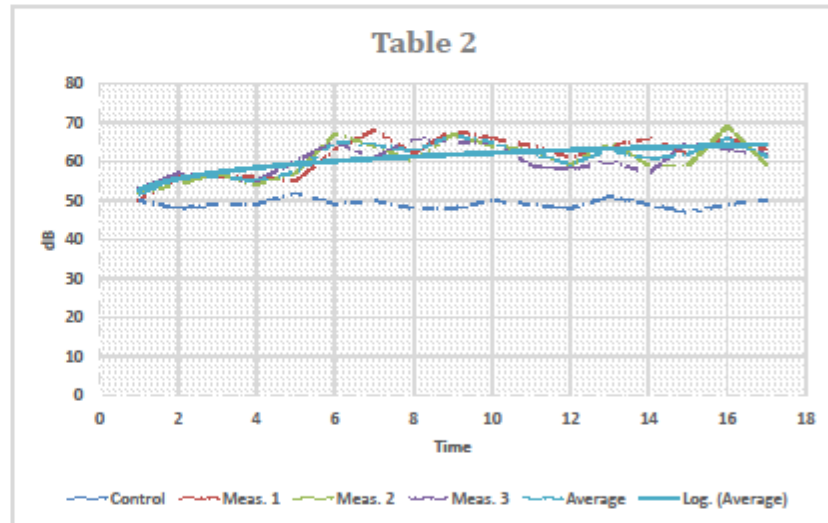


Audio source location: DJ Booth@ House Dynamic #1

A-Weighted Fast-Response	Control	1	2	3	Average
1	50	50	52	53	51.6667
2	48	56	54	57	55.6667
3	49	56	57	56	56.3333
4	49	56	54	55	55
5	52	55	57	60	57.3333
6	49	63	67	65	65
7	50	68	64	61	64.3333
8	48	62	60	66	62.6667
9	48	68	67	65	66.6667
10	50	66	64	65	65
11	49	64	63	59	62
12	48	61	59	58	59.3333
13	51	64	65	60	63
14	49	66	59	57	60.6667
15	47	62	59	65	62
16	49	66	69	63	66
17	50	63	59	62	61.3333

Overall Average 60.8235

Notes: Secondary measurements agreed upon at north patio location were based on findings in Table 2  
 West patio average of 73dB-SPL determined as suitable level for venue activities

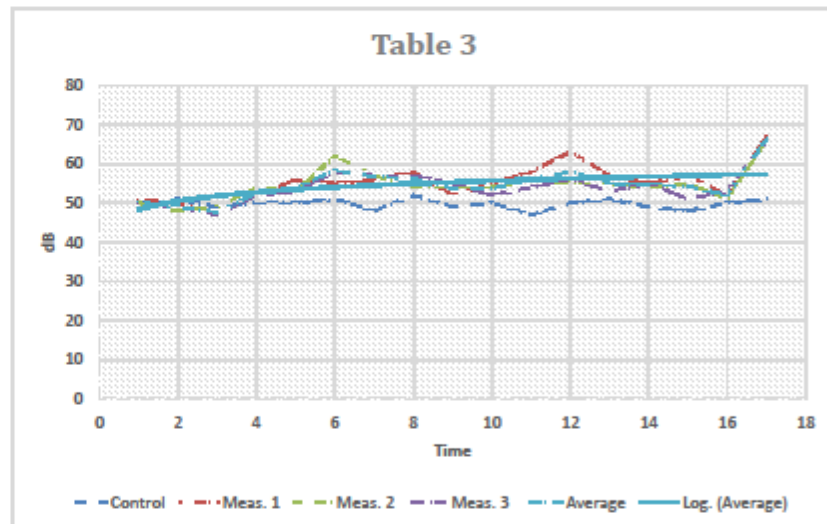


Audio source location: DJ Booth@ House Dynamic #2

A-Weighted Fast-Response	Control	1	2	3	Average
1	50	51	50	50	50.3333
2	51	50	48	49	49
3	49	47	49	47	47.6667
4	50	52	54	52	52.6667
5	50	56	53	53	54
6	51	55	62	58	58.3333
7	48	56	57	57	56.6667
8	52	58	54	57	56.3333
9	49	52	54	55	53.6667
10	50	55	54	52	53.6667
11	47	58	56	54	56
12	50	63	55	56	58
13	51	57	55	53	55
14	49	55	54	55	54.6667
15	48	57	55	51	54.3333
16	50	52	51	53	52
17	51	67	66	66	66.3333

Overall Average 54.6275

Notes: Secondary measurements agreed upon at north patio location were based on findings in Table 3  
 West patio average of **73dB-SPL** determined as suitable level for venue activities







Imagery ©2017 Google, Map data ©2017 Google 18 m

Measured distance  
 Total area: 201.84 m<sup>2</sup> (2,172.55 ft<sup>2</sup>)  
 Total distance: 124.06 m (407.01 ft)

Venue Guidelines: In conclusion, the guidelines for venue use are as follows.

During an event in the Ceremony area, noise-levels may not exceed **65dB-SPL** in the center of the lawn in order to follow El Dorado County Policy 6.5.1 Table 2 when recorded at the northern property line.

During an event in the DJ/Patio area, noise-levels may not exceed **73dB-SPL** at the north entrance of the patio in order to follow El Dorado County Policy 6.5.1 Table 2 when recorded at the northern property line.

In Community areas the exterior noise level standard shall be applied to the property line of the receiving property. In Rural Areas the exterior noise level standard shall be applied at a point 100' away from the residence. The above standards shall be measured only on property containing a noise sensitive land use as defined in Objective 6.5.1. This measurement standard may be amended to provide for measurement at the boundary of a recorded noise easement between all effected property owners and approved by the County.

Sound sources (noise) Examples with distance	Sound pressure Level $L_p$ dB SPL
Jet aircraft, 50 m away	140
Threshold of pain	130
Threshold of discomfort	120
Chainsaw, 1 m distance	110
Disco, 1 m from speaker	100
Diesel truck, 10 m away	90
Kerbside of busy road, 5 m	80
Vacuum cleaner, distance 1 m	70
Conversational speech, 1 m	60
Average home	50
Quiet library	40
Quiet bedroom at night	30
Background in TV studio	20
Rustling leaves in the distance	10
Hearing threshold	0

## Comparative Noise Ordinance Standards

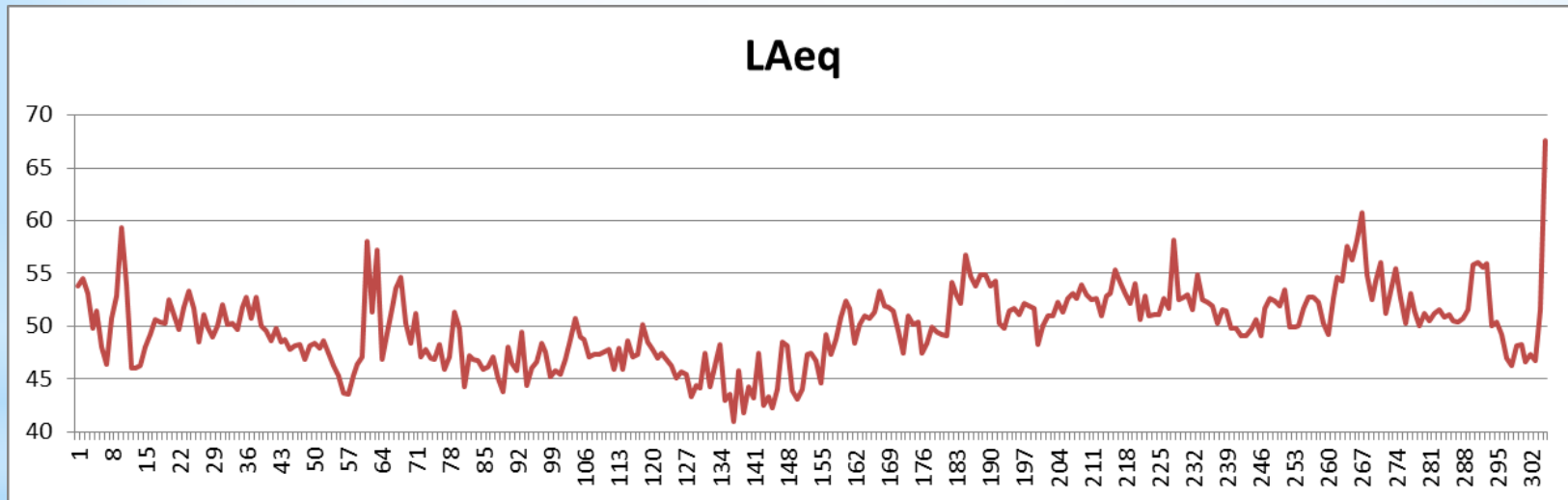
Evening 7pm-10pm

	County	Leq	Lmax			
	Amador	60	75			
	Nevada	50	65			
	Placer	55	70			
	Sacramento	50	70			
	Solano	50	65			
	Yolo	50	70			
	El Dorado (rural)	45	55			



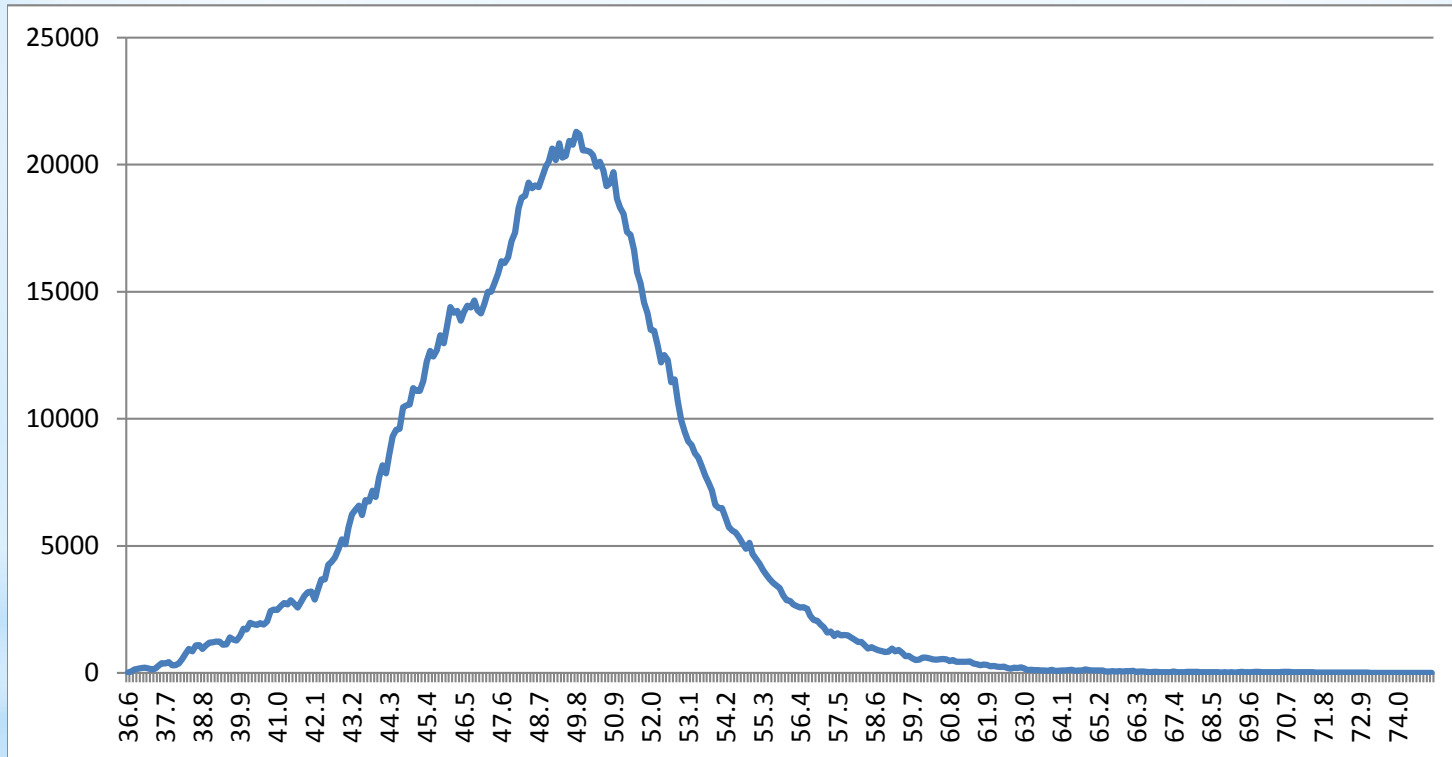
\* May 13, 2017

Decibel levels for 305 readings. One reading each minute. Beginning at 4:30pm and ending 9:33pm.



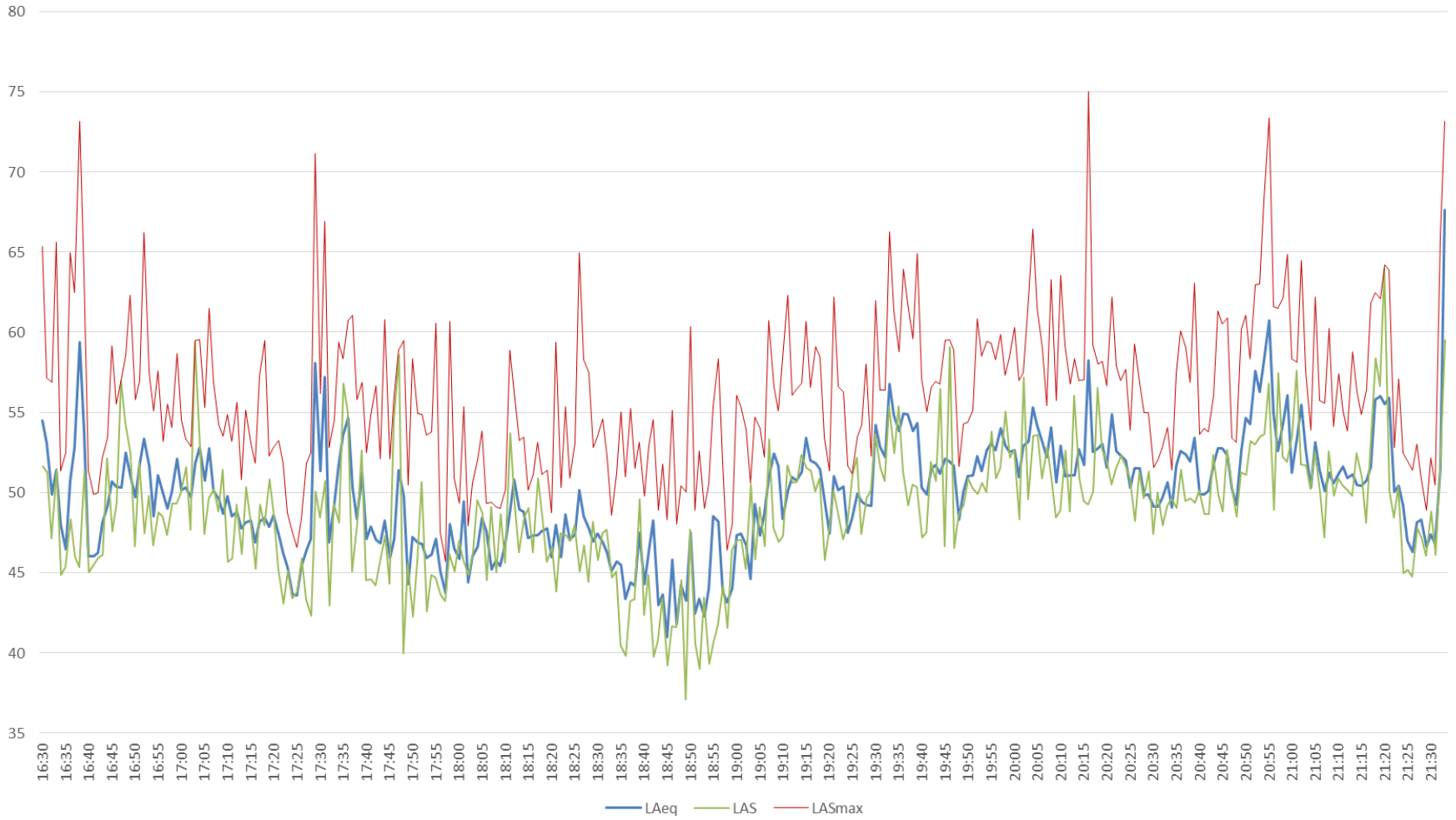
## 05-13-2017 Wedding

Decibel reading and number of times it reached this decibel level. About 5 ¼ hours of recordings for a total of 1,820,330 readings.



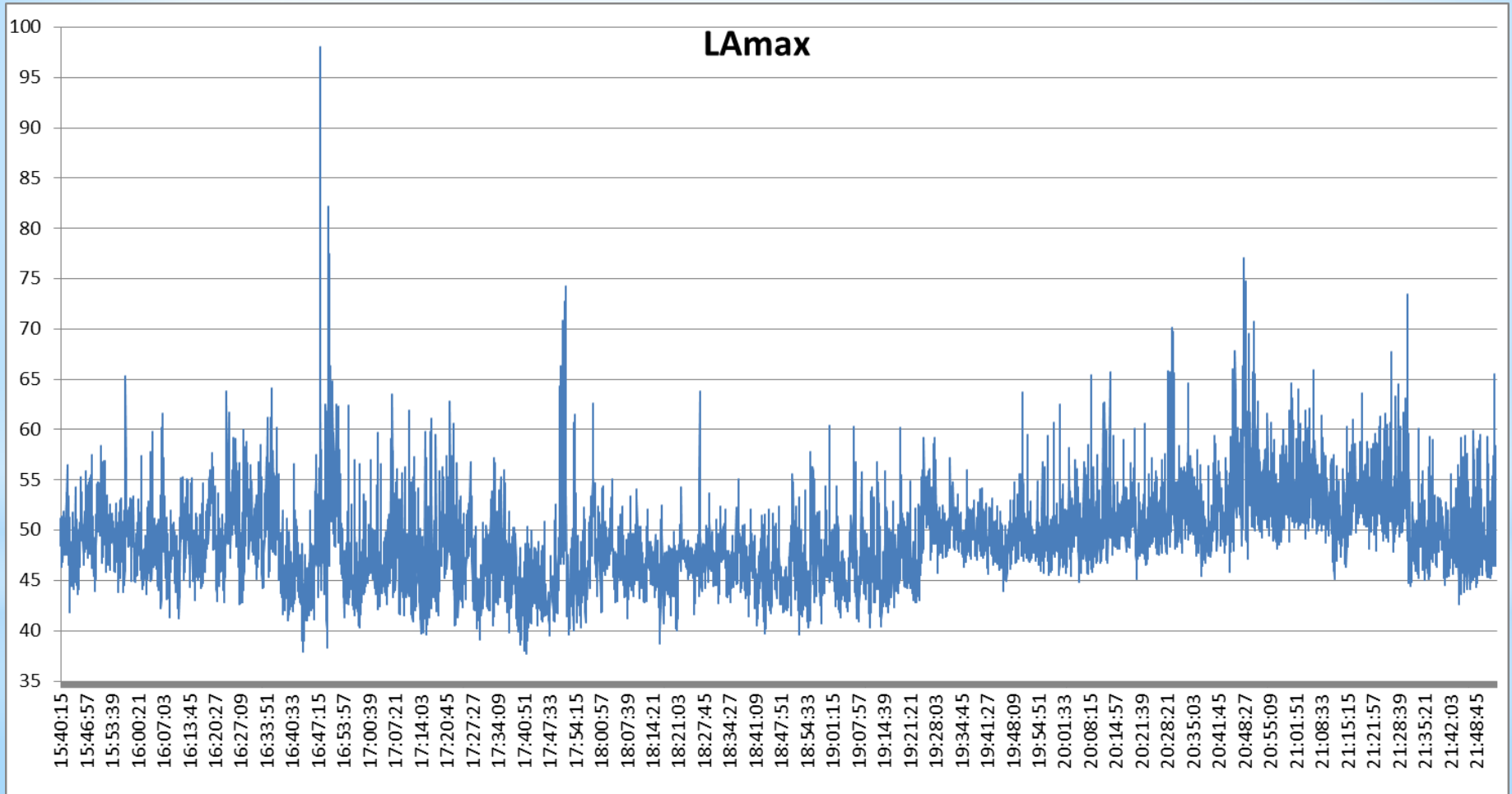
May 13, 2017

Time History



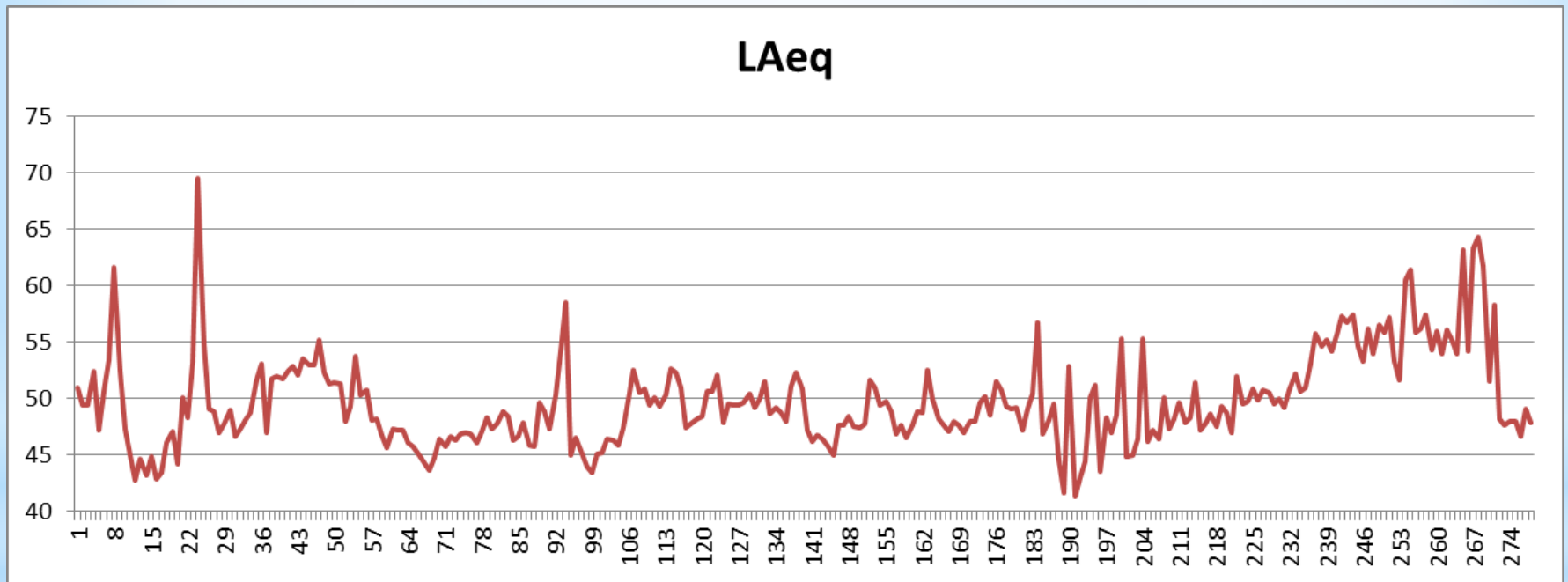
\* May 20, 2017

Decibel levels LAmax. Records taken every two seconds from 3:40pm to 9:47pm.



\* June 3, 2017

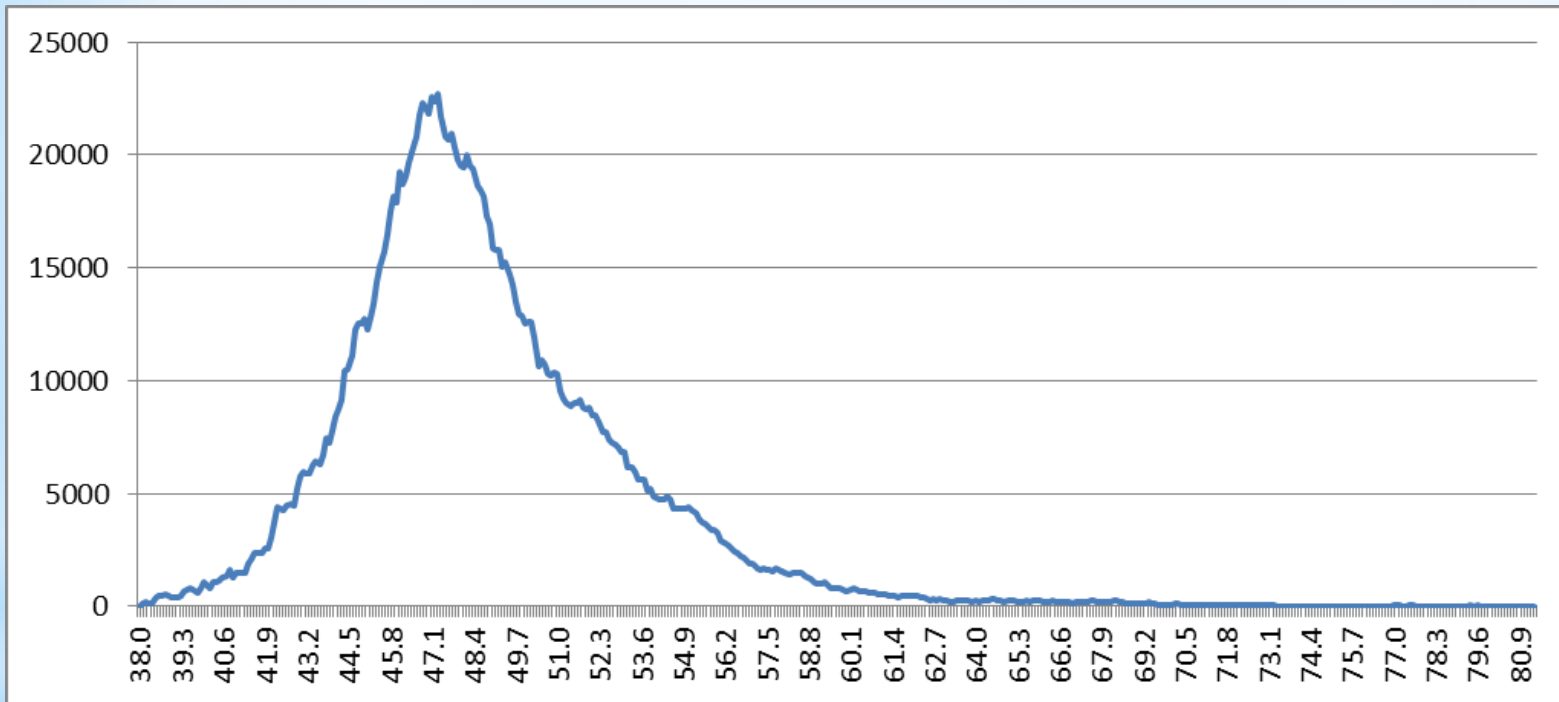
Decibel levels for 279 reading. Beginning at 4:57pm and ending 9:34pm.



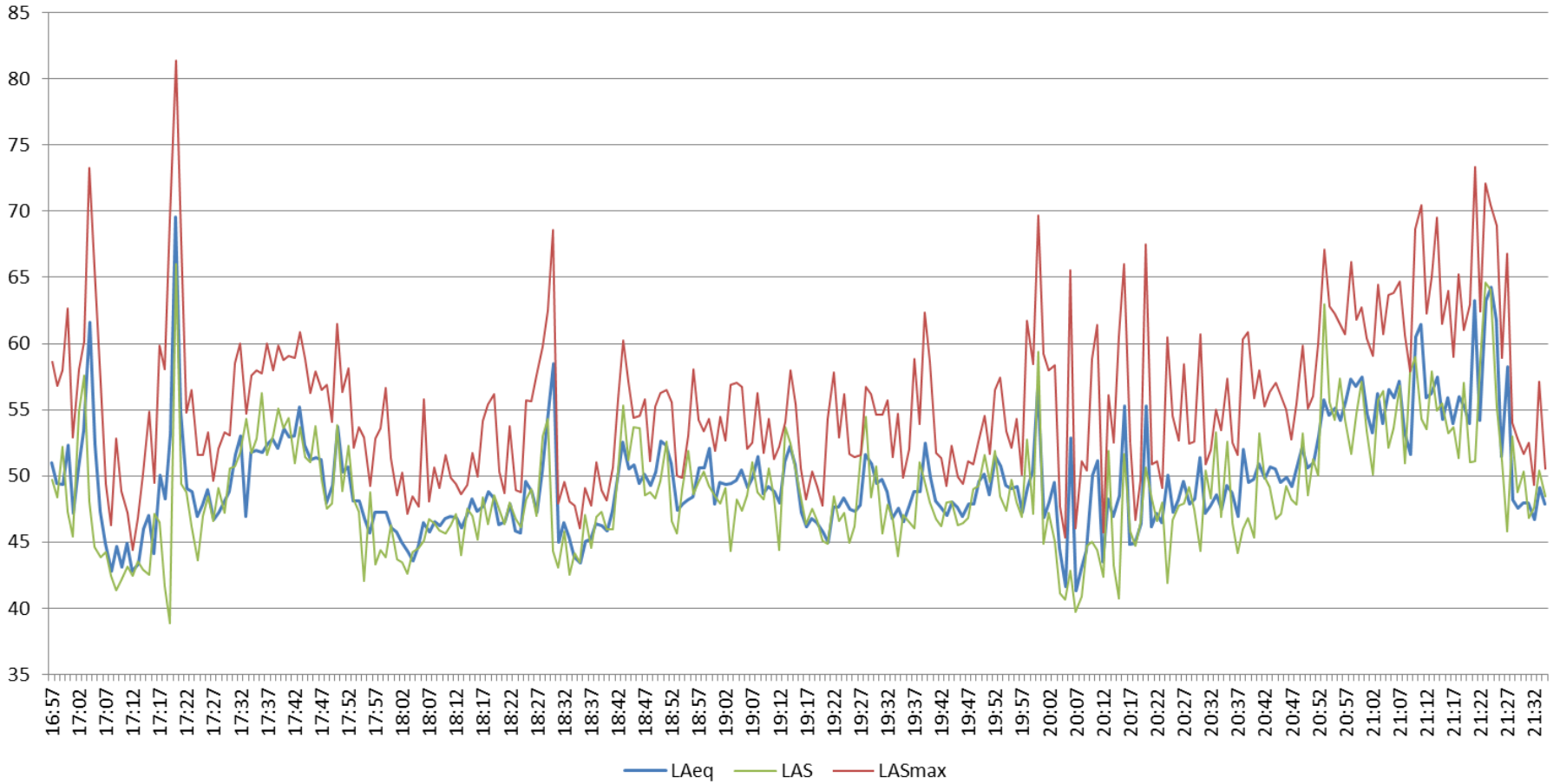


# \* June 3, 2017

Decibel reading and number of times it reached this decibel level. About 5 hours of recordings for a total of 1,667,500 readings.

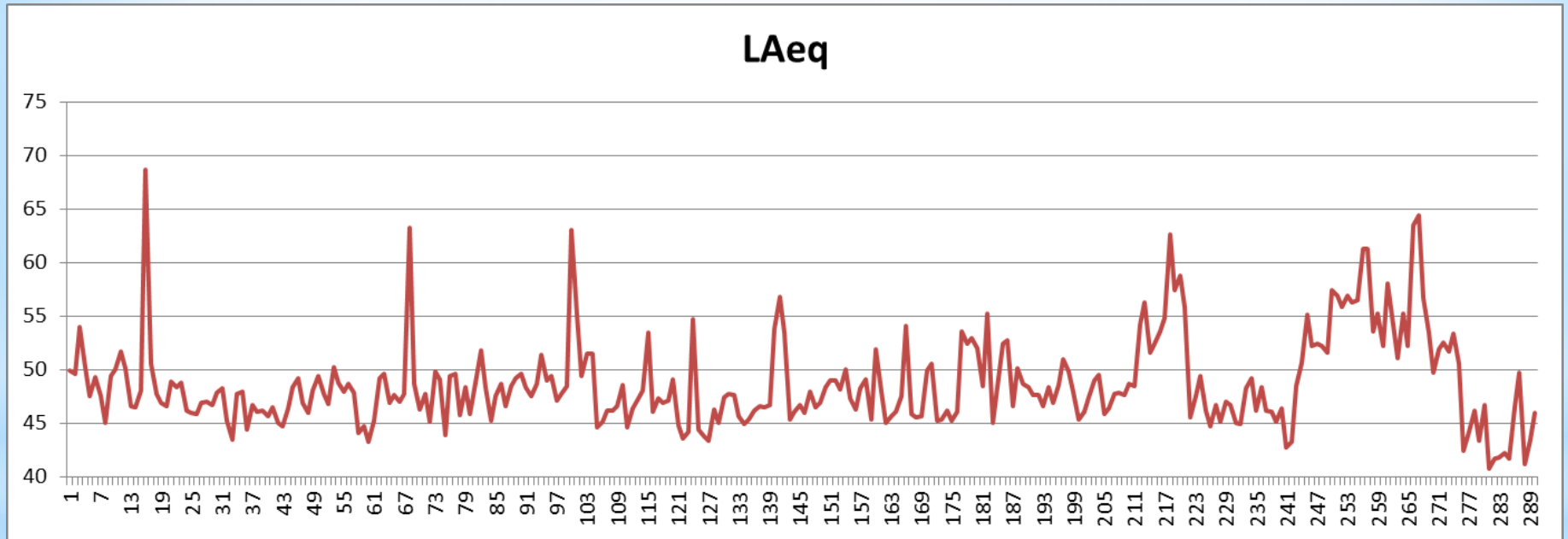


# June 3, 2017



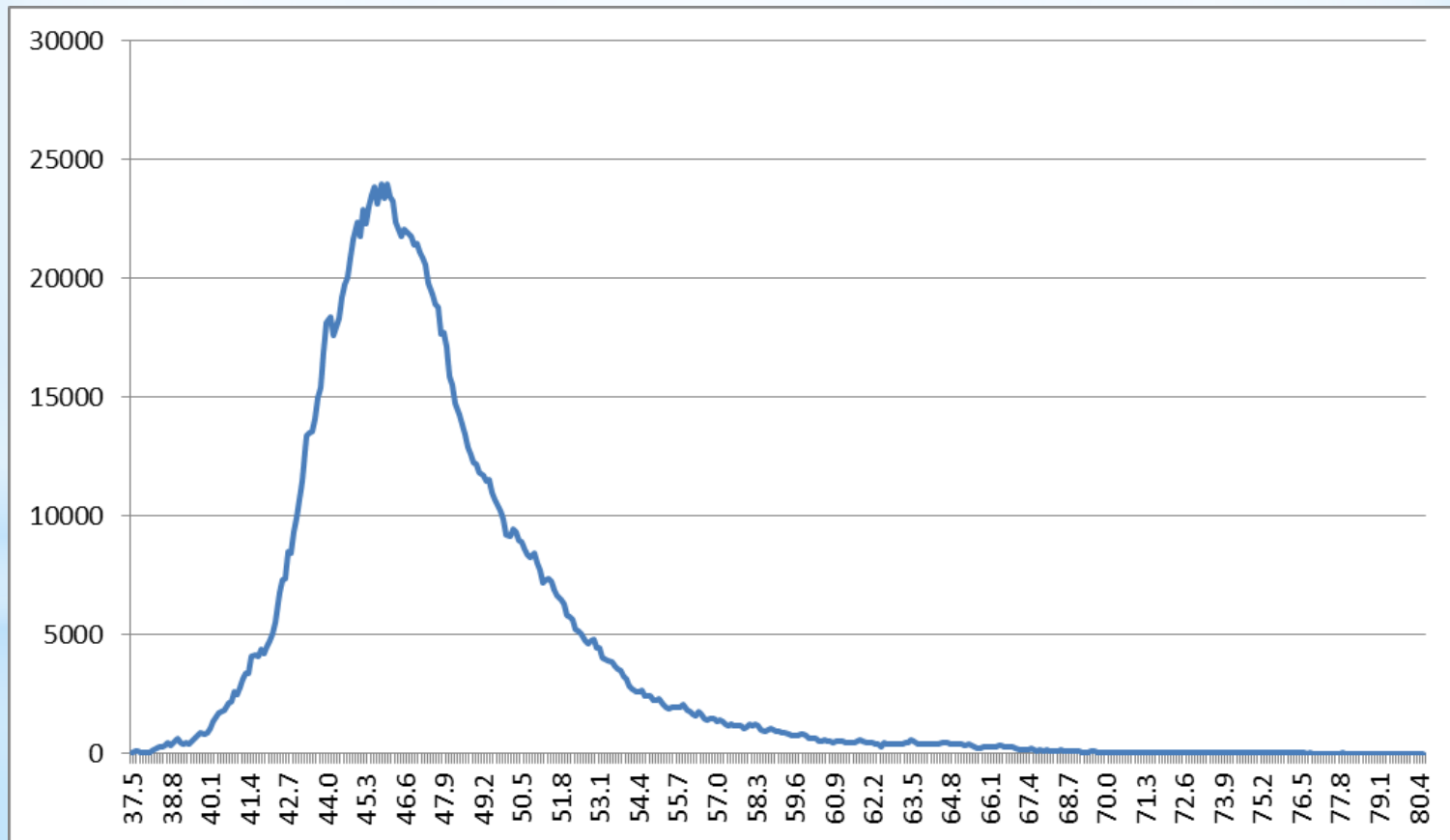
\* June 10, 2017

Decibel levels for 290 readings. Beginning at 4:52pm and ending 9:41pm.

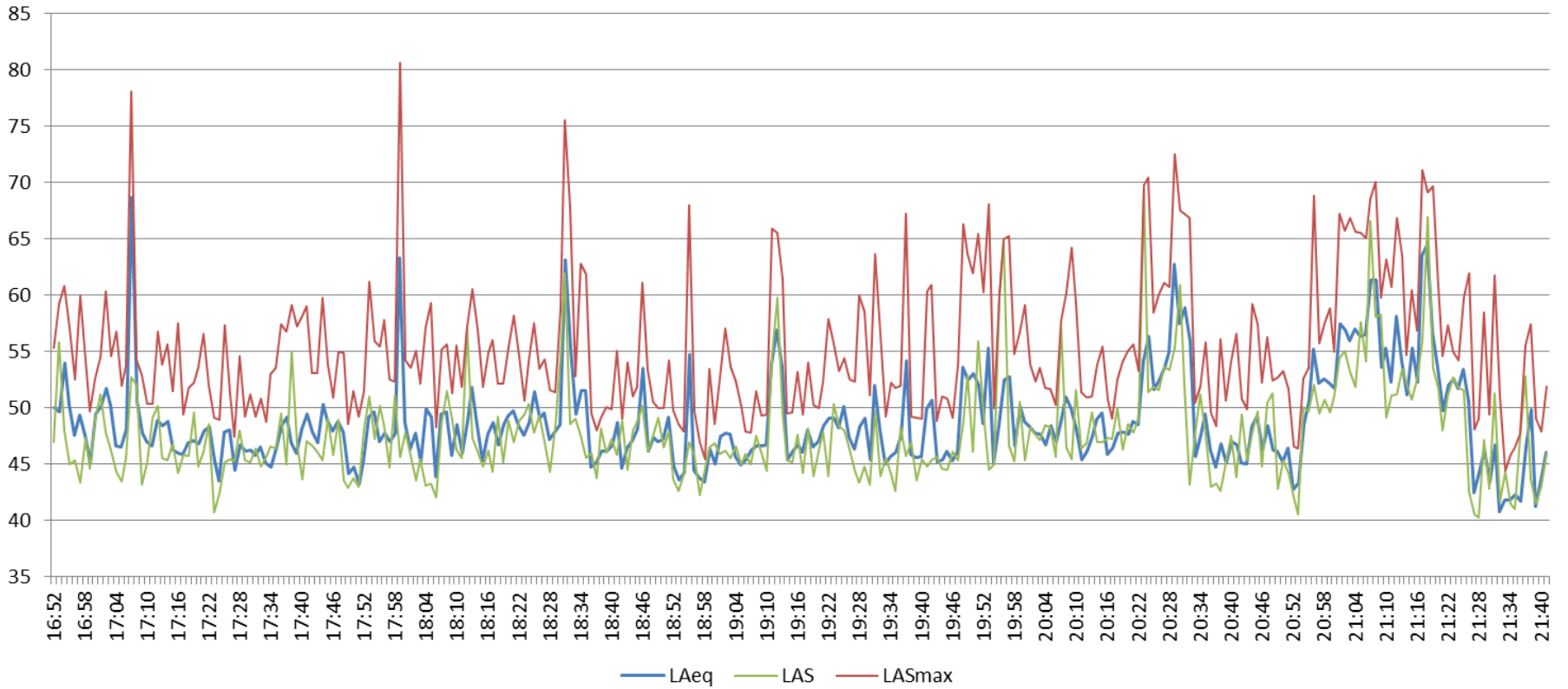


# \* June 10, 2017

Decibel reading and number of times it reached this decibel level. About 5 hours of recordings for a total of 1,736,880 readings.



# June 10, 2017





Date	Start Time	End Time	Total Time	Total Time Over 55 dB
<b>13-May</b>	16:30	21:33		<b>14 min</b>
40-50	1	171	171 min	
50.1-55	172	293	121 min	
55.1-60	294	306	12 min	
60.1-70	307	309	2 min	
70+			0 min	
<b>20-May</b>				<b>27 min</b>
40-50	1	7293	243.1 min	
50.1-55	7294	10416	104.6 min	
55.1-60	10417	11048	21.03 min	
60.1-70	11049	11193	4.8 min	
70+	11194	11215	42 sec.	
<b>3-Jun</b>	16:57	21:34		<b>23 min</b>
40-50	1	184	184 min	
50.1-55	185	258	73 min	
55.1-60	259	276	17 min	
60.1-70	277	283	6 min	
70+			0 min	
<b>10-Jun</b>	16:53	21:41		<b>19 min</b>
40-50	1	229	229 min	
50.1-55	230	276	46 min	
55.1-60	277	289	12 min	
60.1-70	290	297	7 min	

Some examples of noises that are not from Villa Florentina:

May 13

Time	Sound	Db reading
Periodic throughout	Birds chirping near microphone	55-60
Periodic throughout	Motorcycle or traffic	55-65
3:54-56	Siren	66
3:54	Sneeze	79
4:32	Lawn mower	63
4:40	Motor cycle	70
4:41	Traffic noise	62
5:35	Airplane	59
8:32 ish	Airplane	53
9:00 ish	Fireworks	56-62

May 20

Time	Sound	Db reading
Periodic throughout	Birds chirping near microphone	55-60
Periodic throughout	Motor cycle or traffic	55-65
4:57	Sneeze	57
5:31	Barking dog	53
6:37	Barking dog	57
6:53	Barking dog	54
7:05	Airplane	52
7:31	Me moving paper & things	59
7:33	Airplane	51
8:06	Adam walking to microphone	56-67
8:19	Angela zip jacket	60
8:41	Airplane	57
8:44	Geese	52
8:56	Airplane	53

June 3

Time	Sound	Db reading
6:20	Traffic	48-50
6:22	Barking dog	50
7:36	Motor cycle	52
7:41	Motor cycle	53
8:01	Birds	47-51
8:17	Motor cycle	58

June 10

Time	Sound	Db reading
4:55	Gun shots	65
5:00	Motor cycle	63
5:02	Gun shots	62
5:05-07	Gun shots	66
5:08-09	Gun shots	68
5:11	Gun shots	65
5:37	Gun shots	67
5:40	Gun shots	67
5:43	Gun shots	71-72
5:44	Gun shots	69
5:45	Birds	56
5:47	Birds	55
5:51	Birds	52-57
5:54	Children across street	55
6:00	Birds	53
6:04	Motor cycle	55
6:05	Gun shots	62
6:06	Birds	63
6:07	Gun shots	64
6:25	Motor cycle	53
6:27	Motor cycle	58
6:29	Airplane	52-57
6:35	Birds	56
6:43	Bird	53
6:44	Motor cycle	57
6:46	Birds	50-55
6:49	Airplane	57
8:17	Motor cycle	52
9:41	Airplane	50-53