NORTHERN STAR

WIND FARM
KALGOORLIE

NOISE IMPACT ASSESSMENT

JULY 2025

OUR REFERENCE: 34962-3-25072

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NOISE IMPACT ASSESSMENT
WIND FARM, KALGOORLIE

Job No: 25072

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FOR

NORTHERN STAR

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1	Revision for 8MW WTG's	28/7/2025	GW	
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CONTENTS

APPENDICIES

1. INTRODUCTION

Herring Storer Acoustics were commissioned to carry out a noise impact assessment for the proposed Kalgoorlie Wind Farm development, to be located north of the KCGM operations.

The proposed wind farm consists of 33 wind turbines.

See Appendix A for locations of turbines and noise sensitive premises.

The noise impact assessment has been carried out in accordance with the EPA of South Australia *"Wind Farms – Environmental noise guidelines– July 2009, Updated November 2021"* (Guidelines) which is the guidelines recognised by the Department of Environment and Conservation for the assessment of wind farms.

This assessment is understood to have been requested to support a section 38 referral to the EPA.

2. SUMMARY

Noise levels were assessed at 3 identified receiver points, with these locations shown in Appendix A.

Noise emissions have been calculated to comply with the noise criteria, based upon background noise monitoring, at all locations assessed.

3. CRITERIA

According to the Western Australian Planning Position Statement : Renewable energy facilities - March 2020, the noise impact of proposed wind farms in Western Australia should be assessed in accordance with the criteria and approach of assessing wind farms described in the EPA of South Australia *"Wind Farms – Environmental noise guidelines– July 2009, Updated November 2021"* (Guidelines)

Whilst the Western Australian Planning Position Statement additionally refers to the requirement of wind farms to meet the standards prescribed under the *Environmental Protection (Noise) Regulations 1997*, which relates to "unreasonable noise". The Environmental Protection Act 1986 under Part 1, Section 3, Clause 3 defines "unreasonable noise" as follows :

For the purposes of the Act, noise is to be unreasonable if –

a) It is emitted, or the equipment emitting it is used, in contravention of –
   i) this Act;
   ii) any subsidiary legislation made under this Act; or
   iii) any requirement or permission (by whatever name called) made or given by or under this Act;

b) having regard to the nature and duration of the noise emissions, the frequency of similar noise emissions from the same sources (or a source under the control of the same person or persons) and the time of day at which the noise is emitted, the noise unreasonably interferes with the health, welfare, convenience, comfort or amenity of any person; or

c) it is prescribed to be unreasonable for the purposes of the Act.

Given that the Regulations, and associated guidelines, were established prior to wind farms being a realistic consideration in Western Australia, and the meteorological conditions dictated within the DWER guidance on environmental noise for the modelling and assessment of proposed noise sources does not align with the maximum noise generated by wind turbines, the SA Guidelines is considered to provide an appropriate criteria to utilise for assessment purposes, and determination of if wind turbine noise is "unreasonable", based upon part b) of Clause 3 of the Act above. Hence, the Guidelines has been utilised in this assessment.

The Guidelines recommend the following criteria for the assessment of noise levels associated with proposed wind farms.

The predicted equivalent noise level ($L_{Aeq\ ,10\ minutes}$), adjusted for tonality in accordance with the Guidelines, should not exceed :

- 35 dB(A), or
- 40 dB(A) in a primary production / rural industry zone, or
- the "Alternative Minimum Criteria" (Varying with Wind Speed); or
- the background noise ($L_{A90,10\ minutes}$) by more than 5 dB(A).

The criteria for background noise levels will vary with wind speed, as will wind turbine generated noise.

The alternative minimum criterion, varying with wind speed, is listed below in Table 3.1. This conservative minimum criterion has been determined based on a comparison of background noise levels at a number of existing and proposed wind farm sites around Australia.

TABLE 3.1 – ALTERNATIVE MINIMUM CRITERIA (VARYING WITH WIND SPEED)

	Wind Speed at 10m above ground level					
	≤ 5	**6**	**7**	**8**	**9**	**≥ 10**
Minimum Criteria L_{Aeq} [dB(A)]	35	37	38	40	41	43

Based on the results of background noise monitoring undertaken between April 2025 and May 2025 (presented in the Herring Storer Acoustics report, attached in Appendix C), the criteria for wind turbine noise are as presented in Table 3.2. The background noise criteria establish for a hub height of 150m has been utilised in our assessment, as it is understood this is the intended hub height for the proposed wind turbine generators.

TABLE 3.2 – NOISE CRITERIA BASED ON BACKGROUND NOISE LEVELS, dB(A)

Background Monitoring Location	WIND SPEED AT 155m ABOVE GROUND LEVEL (m/s)										
	3	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**
1	42	41	41	41	42	41	42	42	43	43	45
2	35	35	35	35	35	35	35	36	35	35	36
3	35	35	35	35	36	37	37	38	38	39	39
4	35	35	35	35	35	35	35	36	36	37	38
5	35	35	35	35	35	35	35	35	35	35	35

Utilising the nearest background noise monitoring location to each receiver point considered, results in the following background noise monitoring locations being utilised as shown in Table 3.3 below.

TABLE 3.3 – BACKGROUND NOISE MONITORING LOCATION UTILISED TO DETERMINE NOISE CRITERIA FOR EACH RECEIVER LOCATION

ID#	Background Noise Monitoring Location Utilised
R1	1
R2	2
R3	3

This assessment has been based on the noise criteria based on monitored background noise levels. It is noted that the Guidelines have been developed to minimise the impact on the amenity of premises that do not have an agreement with wind farm developers. Our assessment includes all identified residential premises in the surrounding area, some of which may have such an agreement. The status of agreements is not known.

The Guidelines recommend that a noise level criteria of not greater than 30 dB(A) indoors and 45 dB(A) outdoor is considered acceptable for "Stake-Holder" premises.

4. MODELLING

Noise immissions at residential premises, due to the proposed wind farm, were determined by noise modelling, using the computer program "SoundPlan" version 9.1.

SoundPlan uses the theoretical sound power levels determined from measured sound pressure levels to calculate the noise level at any location.

The following input data was used in the SoundPlan model:

a) Topographical Information – Ground contours of the development area;

b) Residential and Wind Turbine Locations – See Appendix A; and

c) Sound Power Levels, varying with wind speed, of typical wind turbines intended to be utilised – understood to be 8MW turbines. The turbine utilised in this assessment is as follows:

Goldwind International GWH182-8.0MW, 150m hub height ;
Blades without serrated trailing edges in normal operating mode.

See Appendix A for locations and Appendix D for turbine specifications.

The Guidelines indicate that noise immissions should be modelled to reflect typical, (but not extreme) "worst case" meteorological conditions for sound propagation towards the receiver.

After a review of the literature available on the subject, noise level emissions were modelled using the ISO 9613-2:2024 algorithm, with the conditions listed in Table 4.1. These conditions and calculating noise levels utilising a "G=0" ground absorption have been found to provide a generally realistic, but conservative assessment of noise levels associated with wind turbines. This is also listed in Annex D of ISO 9613-2:2024 "Calculation of sound pressure levels caused by wind turbines" – hence is considered appropriate.

TABLE 4.1 – METEOROLOGICAL CONDITIONS

Condition	Value
Temperature	15 °C
Relative humidity	70%
Atmospheric Pressure	101.325 kPa

Noise levels attributable to the proposed wind farm were calculated for integer wind speeds 3 – 9m/s at a height of 150m above ground level (proposed hub height). At 9m/s the turbine has reached it maximum sound power level.

The sound power level of the turbines were varied for each integer wind speed, however the other weather conditions within the model remained constant at the conditions stipulated in Table 4.1 above.

5. RESULTS

Noise contour plots are attached in Appendix B.

The predicted noise level at each identified residential premises are listed in Table 5.1 below for each of the hub height wind speeds considered.

TABLE 5.1 – PREDICTED NOISE LEVELS AT IDENTIFIED RECEIVER LOCATIONS VARYING WITH WINDSPEED AT HUB HEIGHT

Receiver ID#	Predicted Noise Level, L_{Aeq} [dB(A)]						
	3m/s	4m/s	5m/s	6m/s	7m/s	8m/s	9m/s
R1	9	15	20	24	28	31	34
R2	12	19	24	28	31	34	34
R3	4	10	15	19	22	25	25

6. ASSESSMENT

Table 6.1 below summarises the level of exceedance to the noise criteria based on background noise monitoring, with the predicted levels exceeding the criteria highlighted in red and the level of exceedance listed in brackets adjacent. The noise criteria at each location has been based upon the background noise levels listed in Table 3.2, cross referenced with Table 3.3.

TABLE 6.1 – ASSESSMENT OF NOISE LEVELS AT IDENTIFIED RECEIVER LOCATIONS

Receiver ID#	Predicted Noise Level, L_{Aeq} [dB(A)]						
	3m/s	4m/s	5m/s	6m/s	7m/s	8m/s	9m/s
R1	9	15	20	24	28	31	34
R2	12	19	24	28	31	34	34
R3	4	10	15	19	22	25	25

As can be seen from the above tables, calculated noise levels comply with the noise criteria based upon background noise monitoring, comply at all receiver points considered in our assessment.

Hence, the proposed wind farm is considered to meet all relevant criteria established by the Guidelines.

7. CONCLUSION

Noise emissions at all locations considered in our assessment have been found to comply with the noise criteria based on background noise monitoring.

APPENDIX A

RESIDENTIAL AND TURBINE LOCATIONS


Scale 1:110000
0 0.5 1 2 3 4 km
KCGM Wind Farm Proposal
Receiver and Turbine Locations
28th July 2025 - V14 Layout
GWH182-8.0MW Turbines @ 150m HH
N
Signs and symbols
Wind Turbine
Receiver Location
R1
R2
R3
T1
T2
T3
T4
T5
T6
T7
T8
T9
T10
T11
T12
T13
T14
T15
T16
T17
T18
T19
T20
T21
T22
T23
T24
T25
T26
T27
T28
T29
T30
T31
T32
T33

RECIEVER LOCATIONS

Name	Easting, m	Northing, m
R1	366304	6614343
R2	358843	6598378
R43	380498	6597515

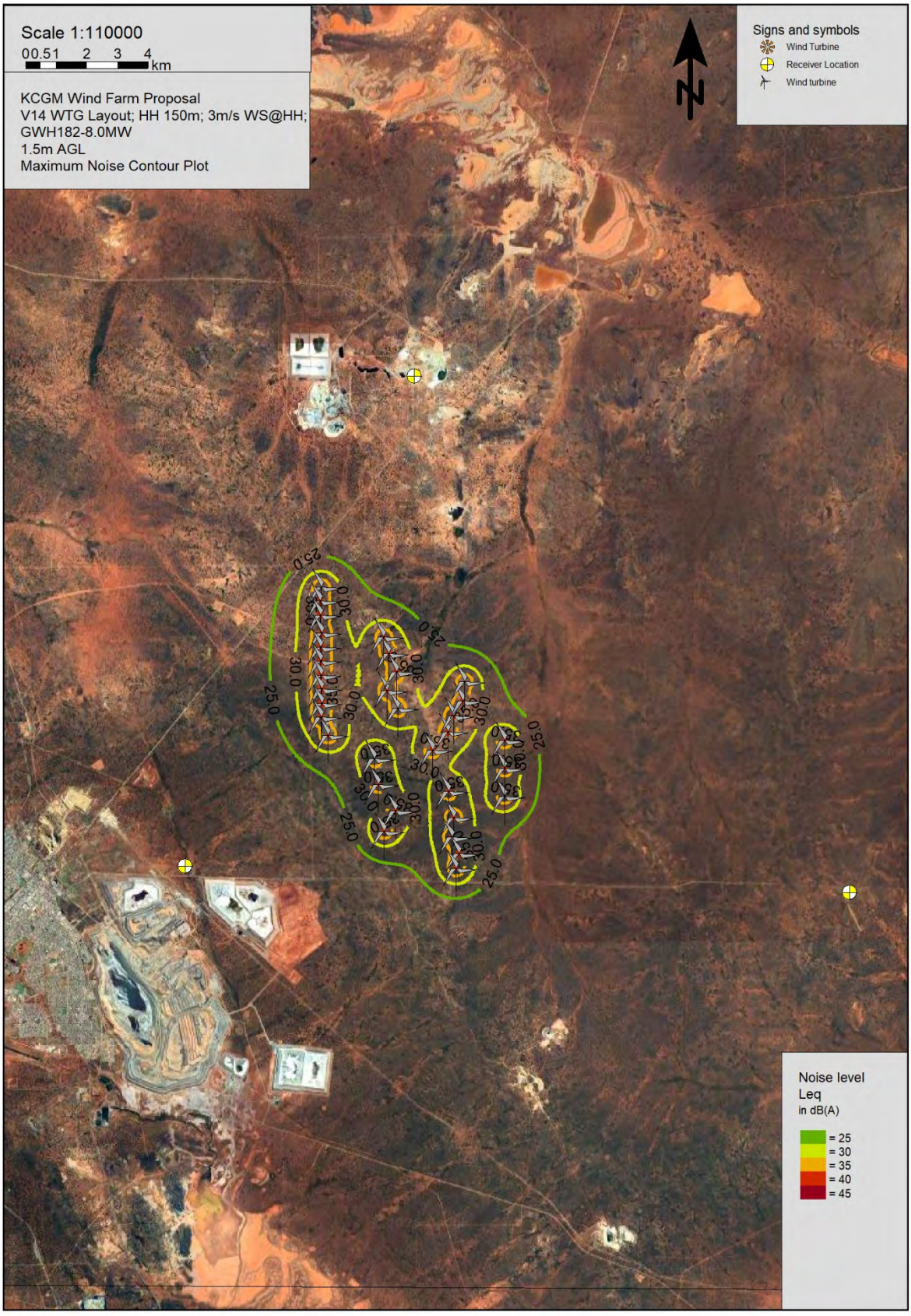
R3

WIND TURBINE LOCATIONS AND TYPE

Name	Turbine Type	Operating Mode	Easting, m	Northing, m
T1	GWH182-8.0MW	Normal –non-serrated blade edge	363280	6607468
T2	GWH182-8.0MW	Normal –non-serrated blade edge	363236	6607013
T3	GWH182-8.0MW	Normal –non-serrated blade edge	363252	6606557
T4	GWH182-8.0MW	Normal –non-serrated blade edge	363302	6605965
T5	GWH182-8.0MW	Normal –non-serrated blade edge	363259	6605514
T6	GWH182-8.0MW	Normal –non-serrated blade edge	363261	6605054
T7	GWH182-8.0MW	Normal –non-serrated blade edge	363275	6604603
T8	GWH182-8.0MW	Normal –non-serrated blade edge	363290	6604139
T9	GWH182-8.0MW	Normal –non-serrated blade edge	363287	6603684
T10	GWH182-8.0MW	Normal –non-serrated blade edge	363272	6603229
T11	GWH182-8.0MW	Normal –non-serrated blade edge	363504	6602632
T12	GWH182-8.0MW	Normal –non-serrated blade edge	365777	6603514
T13	GWH182-8.0MW	Normal –non-serrated blade edge	365419	6604100
T14	GWH182-8.0MW	Normal –non-serrated blade edge	365729	6604706
T15	GWH182-8.0MW	Normal –non-serrated blade edge	365481	6605307
T16	GWH182-8.0MW	Normal –non-serrated blade edge	365316	6605844
T17	GWH182-8.0MW	Normal –non-serrated blade edge	365010	6601874
T18	GWH182-8.0MW	Normal –non-serrated blade edge	366902	6602158
T19	GWH182-8.0MW	Normal –non-serrated blade edge	367407	6602744
T20	GWH182-8.0MW	Normal –non-serrated blade edge	367594	6603281
T21	GWH182-8.0MW	Normal –non-serrated blade edge	367904	6603764
T22	GWH182-8.0MW	Normal –non-serrated blade edge	367953	6604389
T23	GWH182-8.0MW	Normal –non-serrated blade edge	365143	6601030
T24	GWH182-8.0MW	Normal –non-serrated blade edge	365689	6600173
T25	GWH182-8.0MW	Normal –non-serrated blade edge	365335	6599518
T26	GWH182-8.0MW	Normal –non-serrated blade edge	367591	6599966
T27	GWH182-8.0MW	Normal –non-serrated blade edge	367539	6599331
T28	GWH182-8.0MW	Normal –non-serrated blade edge	367763	6598778
T29	GWH182-8.0MW	Normal –non-serrated blade edge	367666	6598301
T30	GWH182-8.0MW	Normal –non-serrated blade edge	367424	6600815
T31	GWH182-8.0MW	Normal –non-serrated blade edge	369246	6600652
T32	GWH182-8.0MW	Normal –non-serrated blade edge	369264	6601566
T33	GWH182-8.0MW	Normal –non-serrated blade edge	369251	6602477

APPENDIX B

PREDICTED NOISE LEVEL CONTOURS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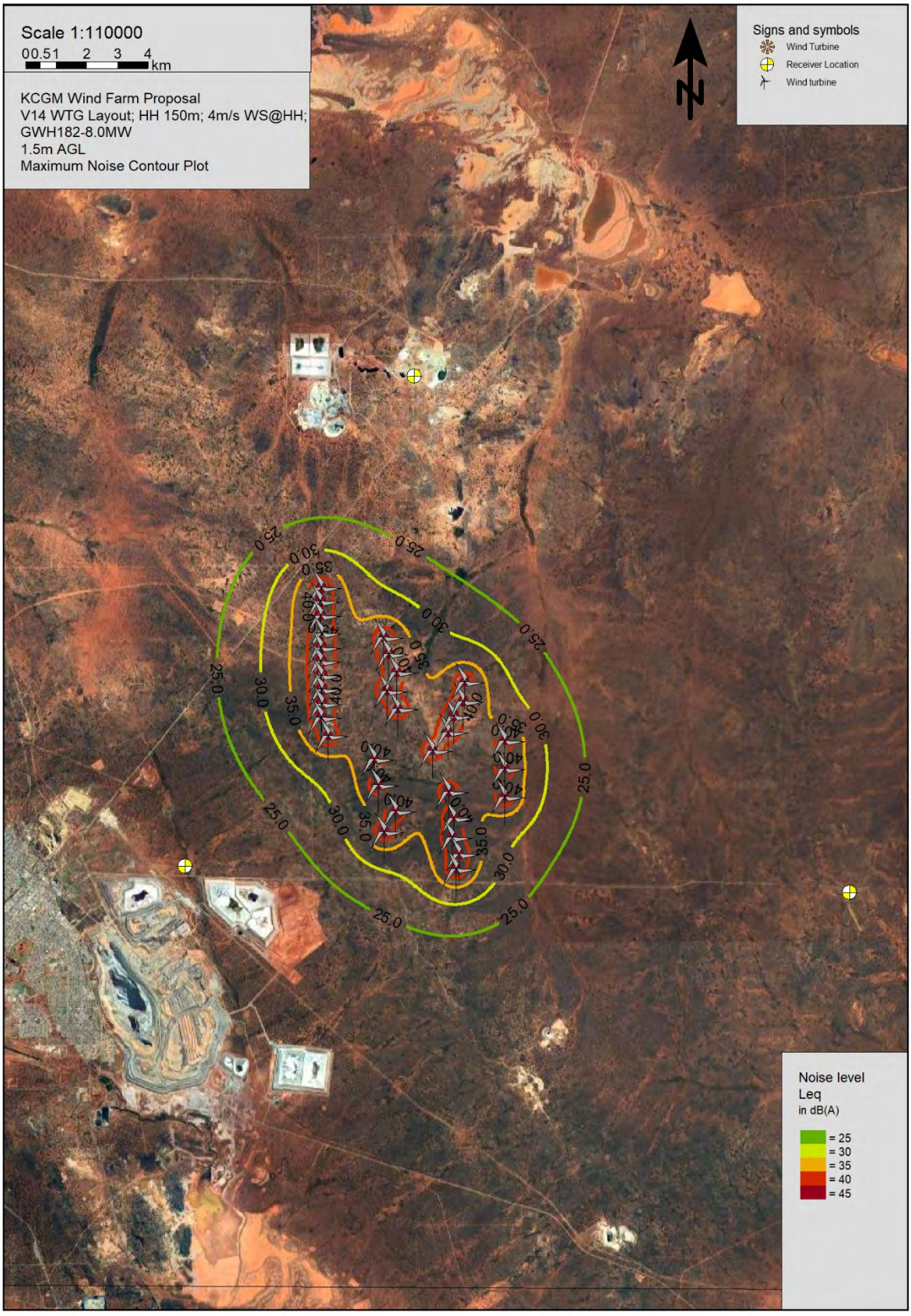
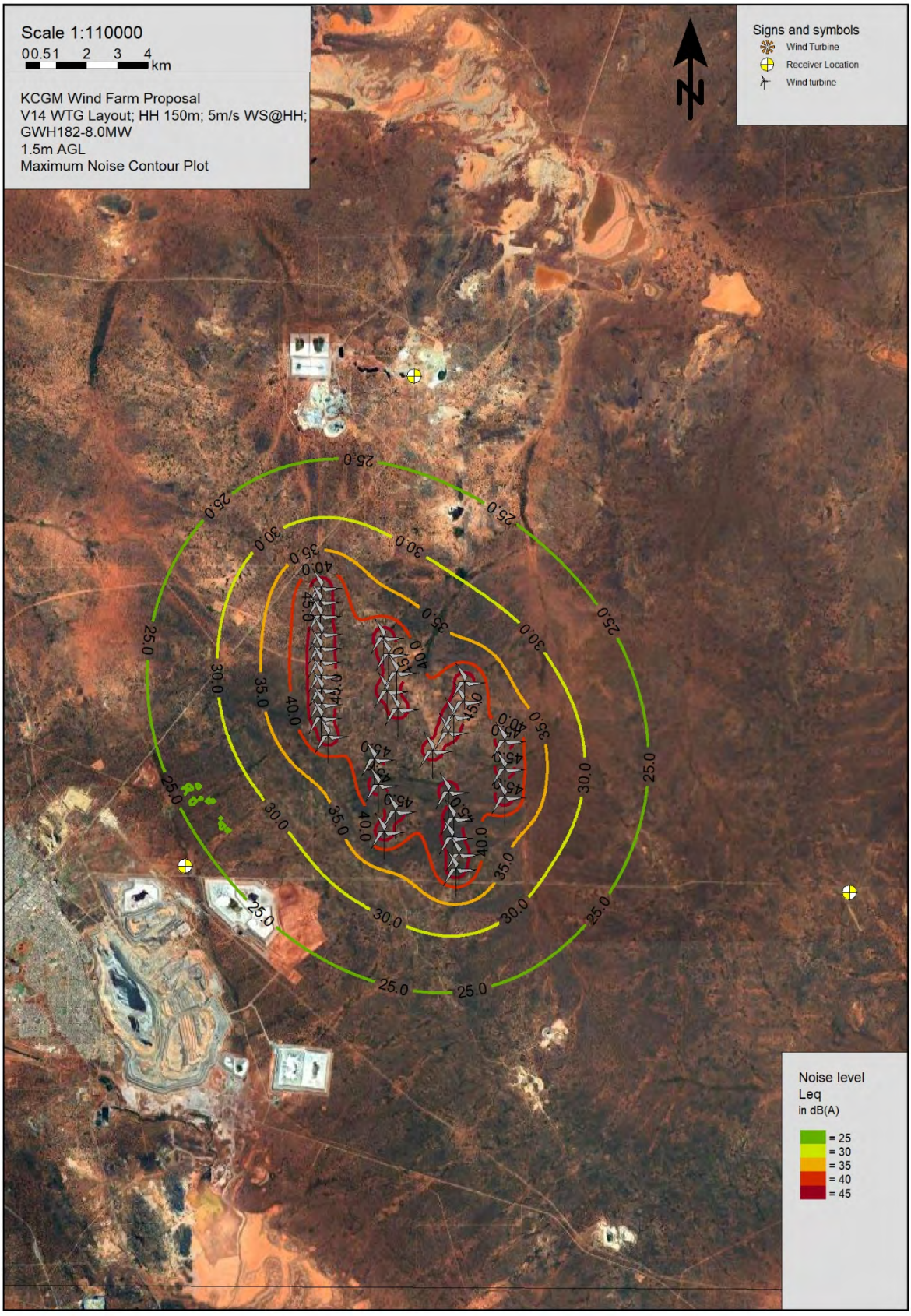
km
KCGM Wind Farm Proposal
V14 WTG Layout; HH 150m; 3m/s WS@HH;
GWH182-8.0MW
1.5m AGL
Maximum Noise Contour Plot
N
Signs and symbols
Wind Turbine
Receiver Location
Wind turbine
Noise level
Leq
in dB(A)
= 25
= 30
= 35
= 40
= 45


Scale 1:110000
00.51 2 3 4
km
KCGM Wind Farm Proposal
V14 WTG Layout; HH 150m; 4m/s WS@HH;
GWH182-8.0MW
1.5m AGL
Maximum Noise Contour Plot
N
Signs and symbols
Wind Turbine
Receiver Location
Wind turbine
Noise level
Leq
in dB(A)
= 25
= 30
= 35
= 40
= 45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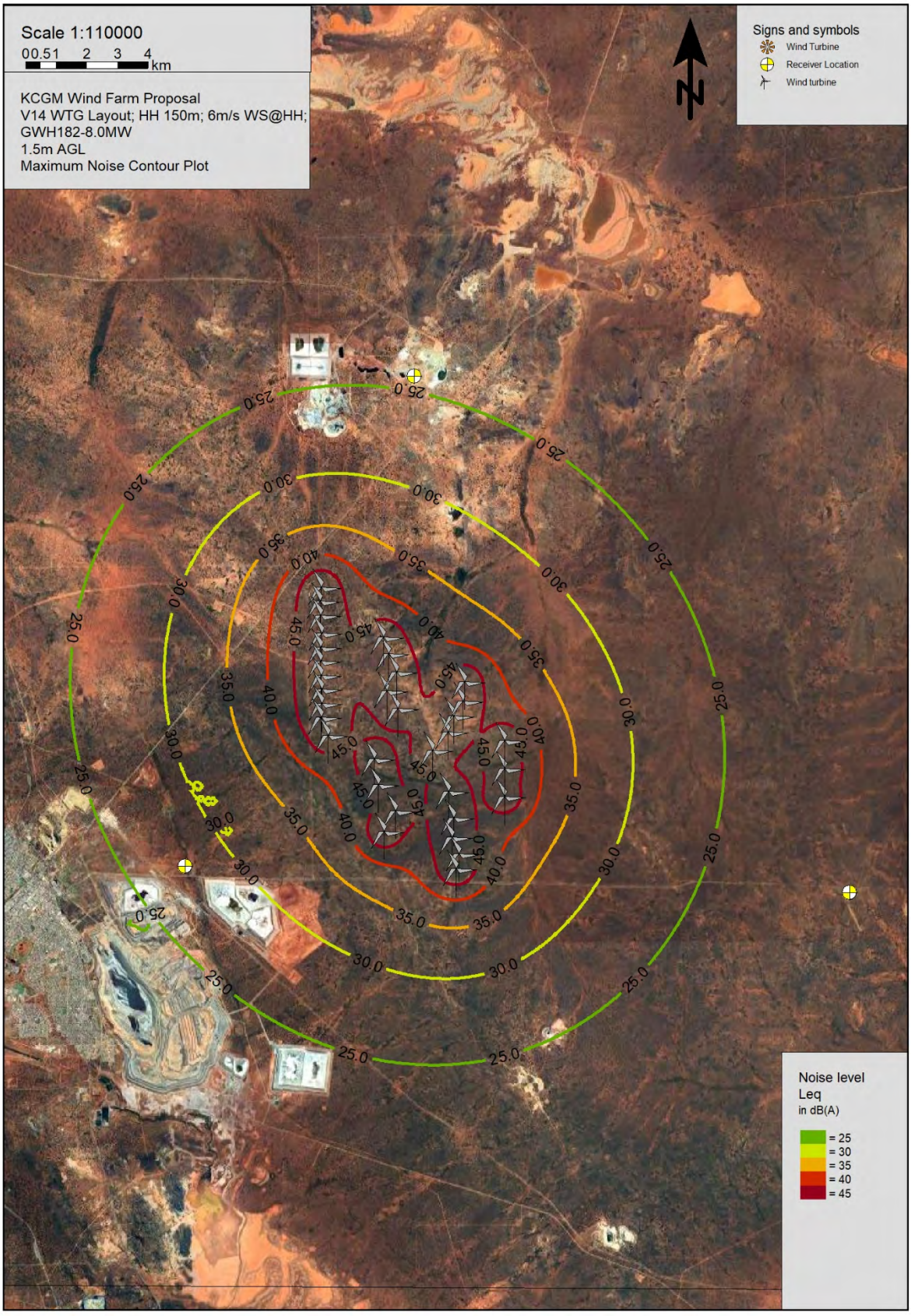
KCGM Wind Farm Proposal
V14 WTG Layout; HH 150m; 5m/s WS@HH;
GWH182-8.0MW
1.5m AGL
Maximum Noise Contour Plot
N
Signs and symbols
Wind Turbine
Receiver Location
Wind turbine
Noise level
Leq
in dB(A)
= 25
= 30
= 35
= 40
= 45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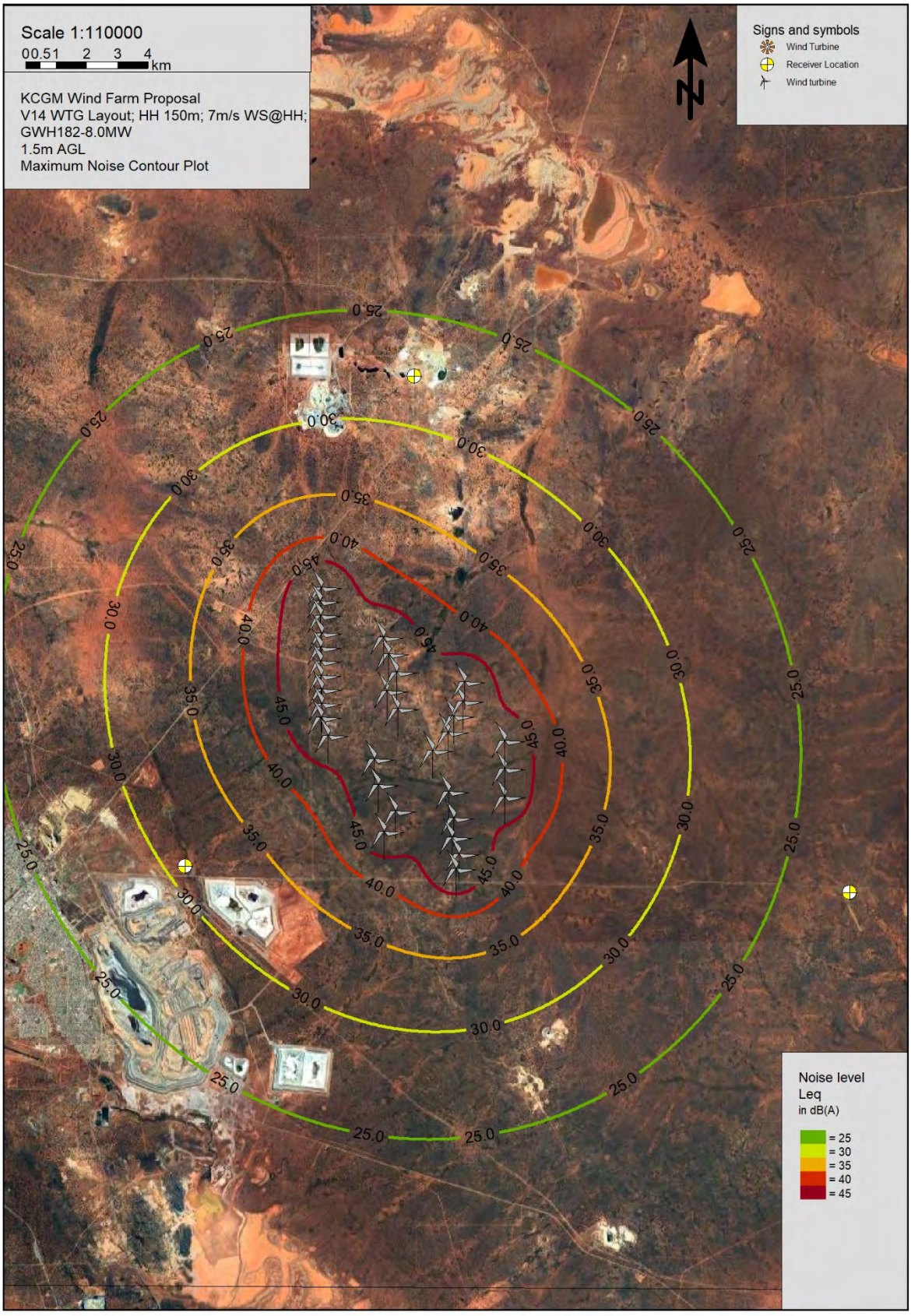
KCGM Wind Farm Proposal
V14 WTG Layout; HH 150m; 6m/s WS@HH;
GWH182-8.0MW
1.5m AGL
Maximum Noise Contour Plot
N
Signs and symbols
Wind Turbine
Receiver Location
Wind turbine
Noise level
Leq
in dB(A)
= 25
= 30
= 35
= 40
= 45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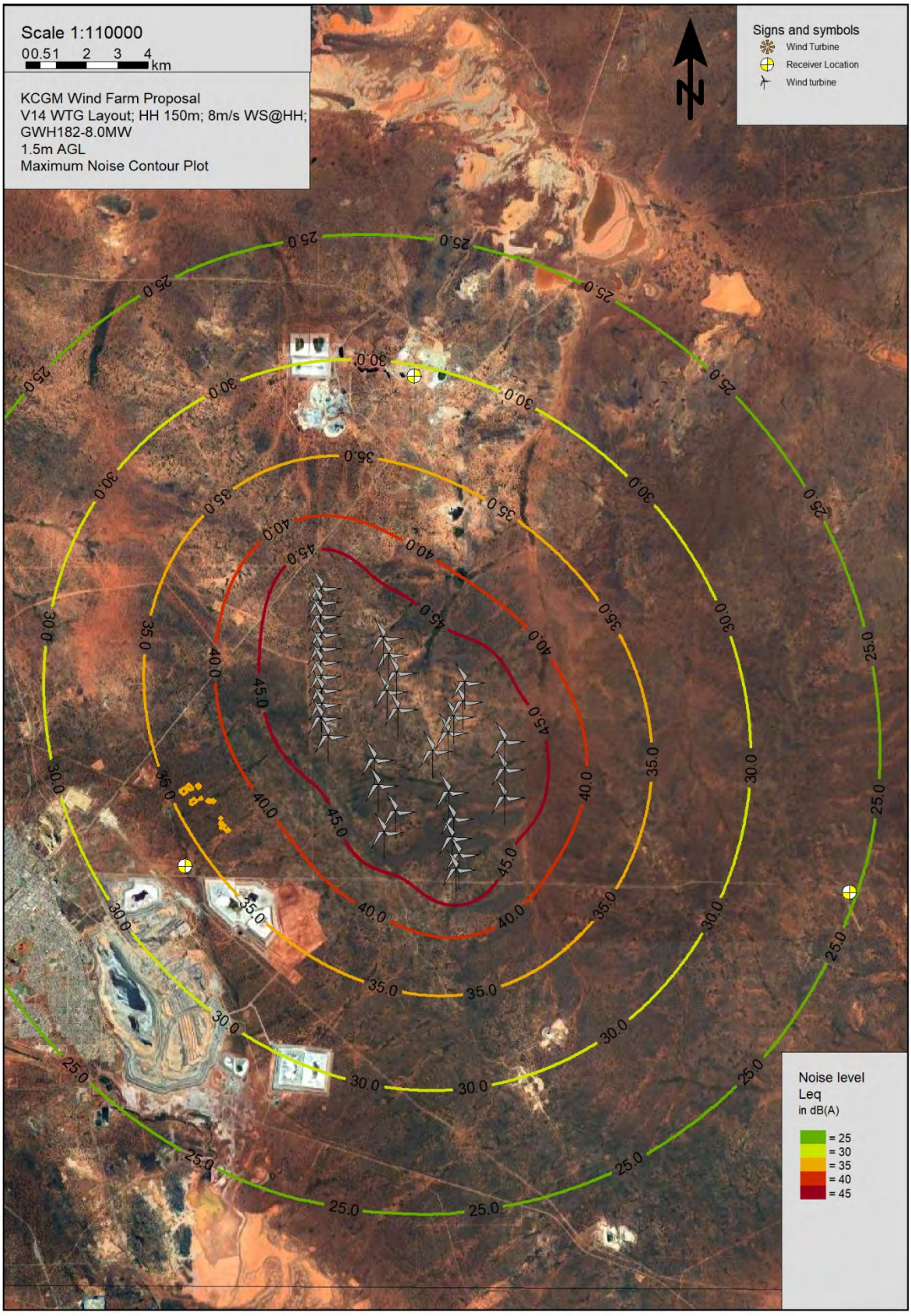
KCGM Wind Farm Proposal
V14 WTG Layout; HH 150m; 7m/s WS@HH;
GWH182-8.0MW
1.5m AGL
Maximum Noise Contour Plot
Signs and symbols
Wind Turbine
Receiver Location
Wind turbine
Noise level
Leq
in dB(A)
= 25
= 30
= 35
= 40
= 45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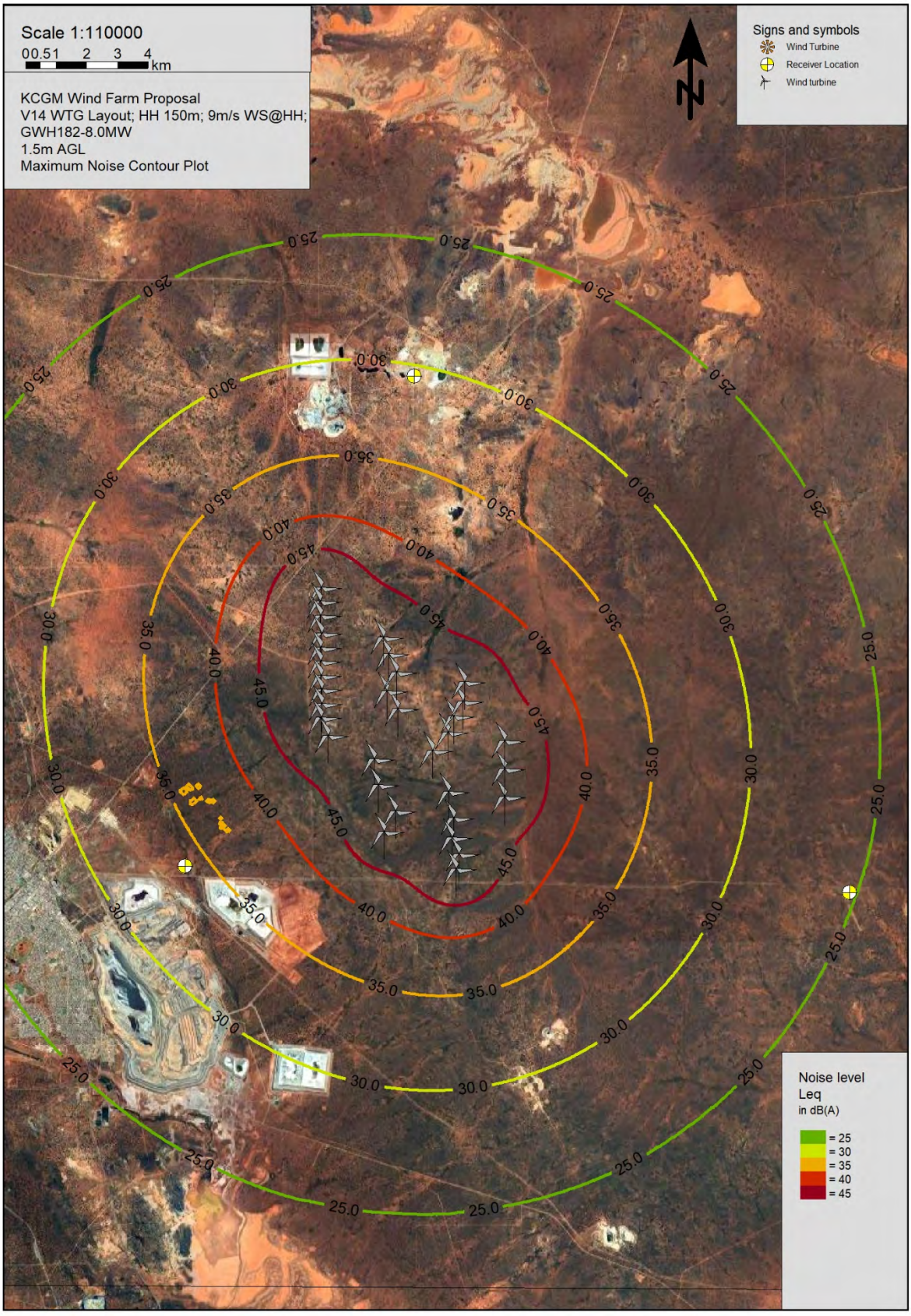
km
KCGM Wind Farm Proposal
V14 WTG Layout; HH 150m; 8m/s WS@HH;
GWH182-8.0MW
1.5m AGL
Maximum Noise Contour Plot
Signs and symbols
Wind Turbine
Receiver Location
Wind turbine
Noise level
Leq
in dB(A)
= 25
= 30
= 35
= 40
= 45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KCGM Wind Farm Proposal
V14 WTG Layout; HH 150m; 9m/s WS@HH;
GWH182-8.0MW
1.5m AGL
Maximum Noise Contour Plot
N
Signs and symbols
Wind Turbine
Receiver Location
Wind turbine
Noise level
Leq
in dB(A)
= 25
= 30
= 35
= 40
= 45

APPENDIX C

BACKGROUND NOISE MONITORING REPORT

NORTHERN STAR

WIND FARM
KALGOORLIE

BACKGROUND NOISE MONITORING

JUNE 2025

OUR REFERENCE: 34728-1-25072

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KALGOORLIE WIND FARM

Job No: 25072

Document Reference : 34728-1-25072

FOR

NORTHERN STAR

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CONTENTS

APPENDICIES

1. INTRODUCTION

Herring Storer Acoustics were commissioned by Northern Star Resources to carry out background noise monitoring for the proposed wind farm located approximately 15km east of Kalgoorlie.

Background noise monitoring was commissioned to enable the results to be used in the noise impact assessment, carried out in accordance with the EPA of South Australia *"Wind Farms – Environmental noise guidelines– July 2009, Updated November 2021"* (Guidelines) which is the guidelines recognised by the Western Australian Department Water Environment and Regulation for the assessment of wind farms.

Noise monitoring was carried out between through April and May 2025 at 5 locations.

This report presents the results of the monitoring and analysis.

2. SUMMARY

Based on the results of background noise monitoring within the proposed wind farm development area, the applicable criteria for each location is as listed in Table 2.1 and 2.2.

TABLE 2.1 – NOISE CRITERIA BASED ON BACKGROUND NOISE LEVELS @ 150m AGL HUB HEIGHT, dB(A)

Location	WIND SPEED AT 125m ABOVE GROUND LEVEL (m/s)										
	3	4	5	6	7	8	9	10	11	12	13
1	42	41	41	41	42	41	42	42	43	43	45
2	35	35	35	35	35	35	35	36	35	35	36
3	35	35	35	35	36	37	37	38	38	39	39
4	35	35	35	35	35	35	35	36	36	37	38
5	35	35	35	35	35	35	35	35	35	35	35

3. METHODOLOGY

Background noise levels were monitored at five locations within and around the proposed development area in accordance with the Guidelines and AS4959-2010. Locations are detailed in Table 3.1, the monitoring location map is attached in Appendix A.

TABLE 3.1 – MONITORING LOCATION DETAILS

Location	Easting (m)	Northing (m)
1	366304	6614343
2	358843	6598378
3	380498	6597515
4	367179	6595003
5	366715	6601036
Wind Monitor	364643	6599430

Monitored noise levels were then paired with corresponding wind data, provided by the wind monitoring station located within the proposed wind farm area.

The hub height considered for the wind farm is understood to be 150m above ground level.

The wind speeds at 140m above ground level have been utilised for the proposed hub height of 150m above ground level. An analysis of the difference between 140m and 150m height indicated insignificant differences in the wind speeds, hence, the 140m height above ground level wind speed has been utilised as being representative of the wind speed at 150m.

Rain affected data was removed from the collected data using weather information attained from the BOM.

The Guidelines requires 2000 valid data points to be collected for each site and also recommends that not less than 500 data points collected for downwind conditions.

Wind direction for downwind conditions is defined as +- 45 degrees from the line connecting the receptor and the nearest turbine. It is noted that in this instance there are some background noise monitoring locations that have turbines in all directions – hence all wind directions are considered downwind.

The Guidelines recognises that the collection of 500 valid points for the downwind condition will not always be practical to achieve given prevailing wind conditions for some monitoring locations.

The number of data points – both downwind and overall at 150m above ground level– are listed below in Table 3.2.

TABLE 3.2 – NUMBER OF VALID BACKGROUND NOISE MONITORING POINTS @ 150m AGL

Location	Total Data Points	Downwind
1	6703	1437
2	6703	3163
3	6703	409
4	6703	1741
5	6703	6703

The number of downwind condition data points collected at each background monitoring location has not exceed 500 in all cases. Given that the land uses in the surrounding area of each location is consistent in use and noise generating sources (i.e. vegetation state surrounding each location is the same) it is considered that the monitoring undertaken is representative of background noise levels at each location and wind direction.

Background noise levels were plotted against the corresponding wind speed measurement (see Appendix C and D).

The background noise levels monitored were correlated to wind speed, and processed in accordance with the Guidelines, with the resultant noise criteria at each hub height wind speed (from cut in rated power of the wind turbine generator) as listed below :

- 35 dB(A), or
- The background noise ($L_{A90,10\ minutes}$) by more than 5 dB(A).

*whichever is greater.

Calibration certificates for meters used are attached in Appendix F.

4. RESULTS

Background noise monitoring for each of the five locations is presented in Appendix C and D, with time history charts presented in Appendix E.

Refer to Appendix A and B for location information for each noise logger.

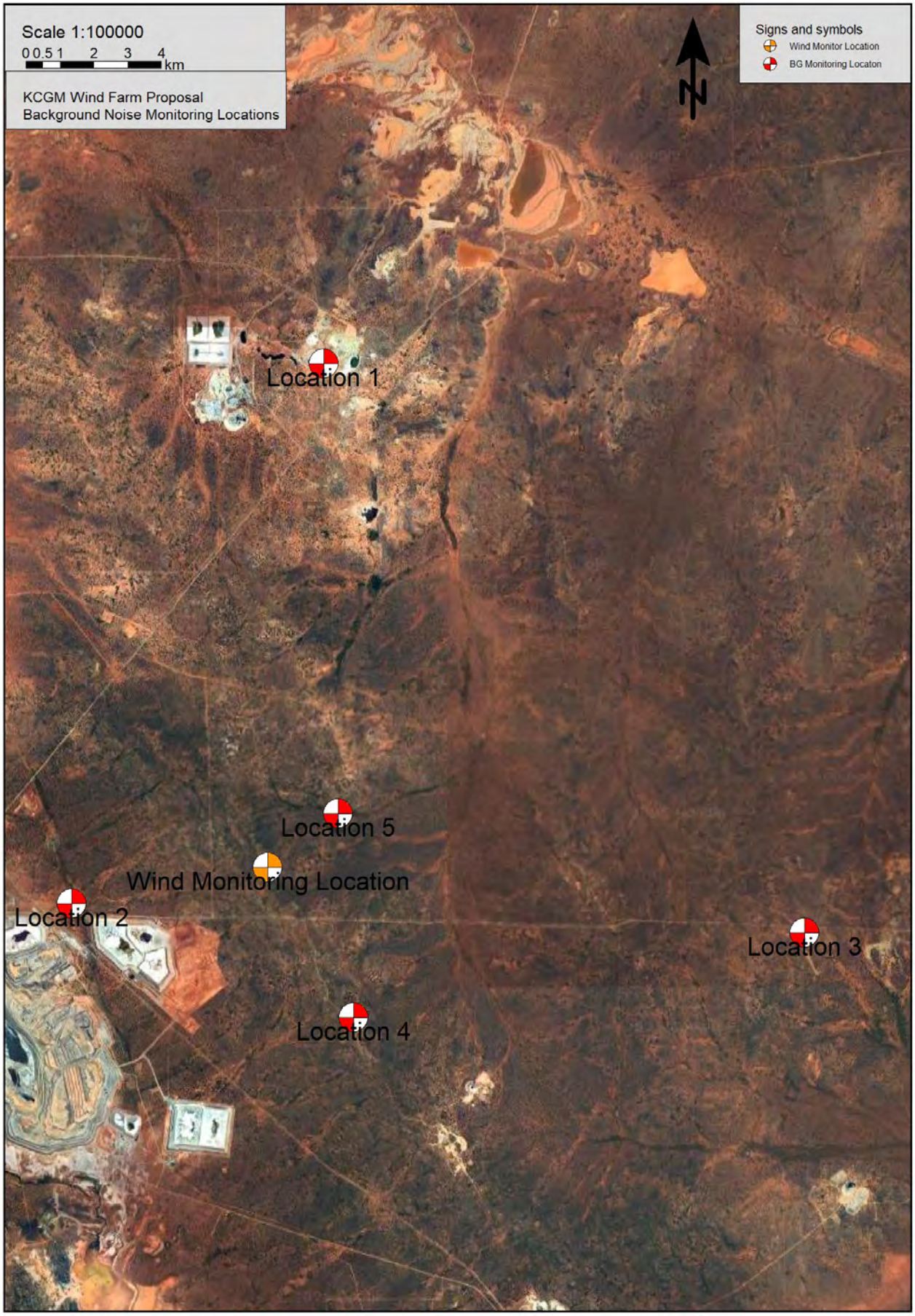
Processing the collected data in accordance with the Guidelines, Table 4.1 summarises the background noise at each location for each integer hub height wind speed, from cut in speed to rated power.

TABLE 4.1 – NOISE CRITERIA ACCOUNTING FOR BACKGROUND NOISE LEVELS @ 150m AGL

Location	WIND SPEED AT 125m ABOVE GROUND LEVEL (m/s)										
	3	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**
1	42	41	41	41	42	41	42	42	43	43	45
2	35	35	35	35	35	35	35	36	35	35	36
3	35	35	35	35	36	37	37	38	38	39	39
4	35	35	35	35	35	35	35	36	36	37	38
5	35	35	35	35	35	35	35	35	35	35	35

APPENDIX A

MONITORING LOCATIONS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KCGM Wind Farm Proposal
Background Noise Monitoring Locations
N
Signs and symbols
Wind Monitor Location
BG Monitoring Locaton
Location 1
Location 5
Wind Monitoring Location
Location 2
Location 3
Location 4

APPENDIX B

MONITORING LOCATION DETAILS

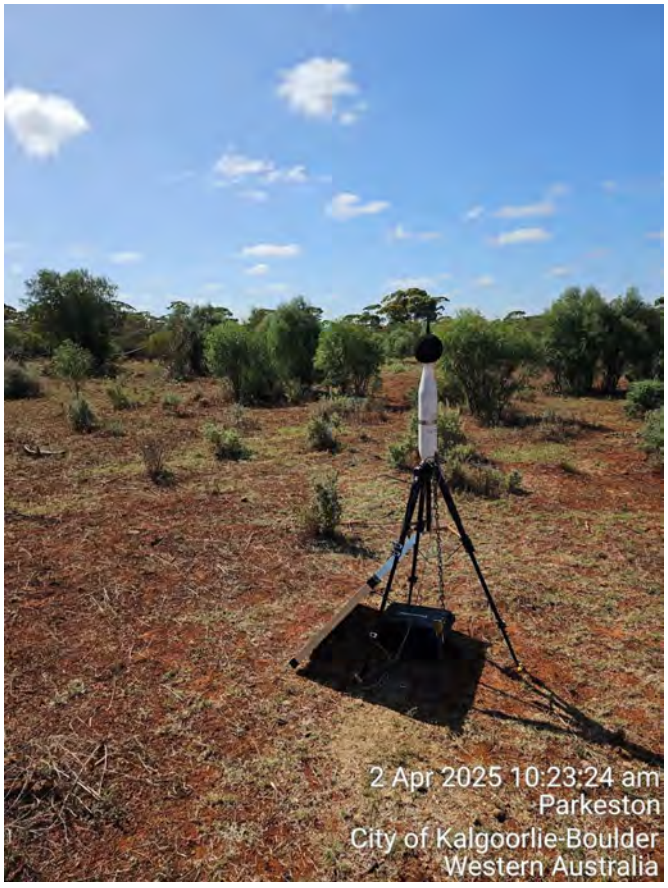
LOCATION 1


2 Apr 2025 8:44:59 am
Kanowna Belle Access Road
Kanowna
City of Kalgoorlie-Boulder
Western Australia


2 Apr 2025 8:45:24 am
Unnamed Road
Kanowna
City of Kalgoorlie-Boulder
Western Australia

LOCATION 2


2 Apr 2025 10:23:28 am
Parkeston
City of Kalgoorlie-Boulder
Western Australia


2 Apr 2025 10:23:24 am
Parkeston
City of Kalgoorlie-Boulder
Western Australia


2 Apr 2025 10:23:20 am
Parkeston
City of Kalgoorlie-Boulder
Western Australia

LOCATION 3


2 Apr 2025 11:23:03 am

LOCATION 4


2 Apr 2025 10:23:48 am
Parkeston
City of Kalgoorlie-Boulder
Western Australia

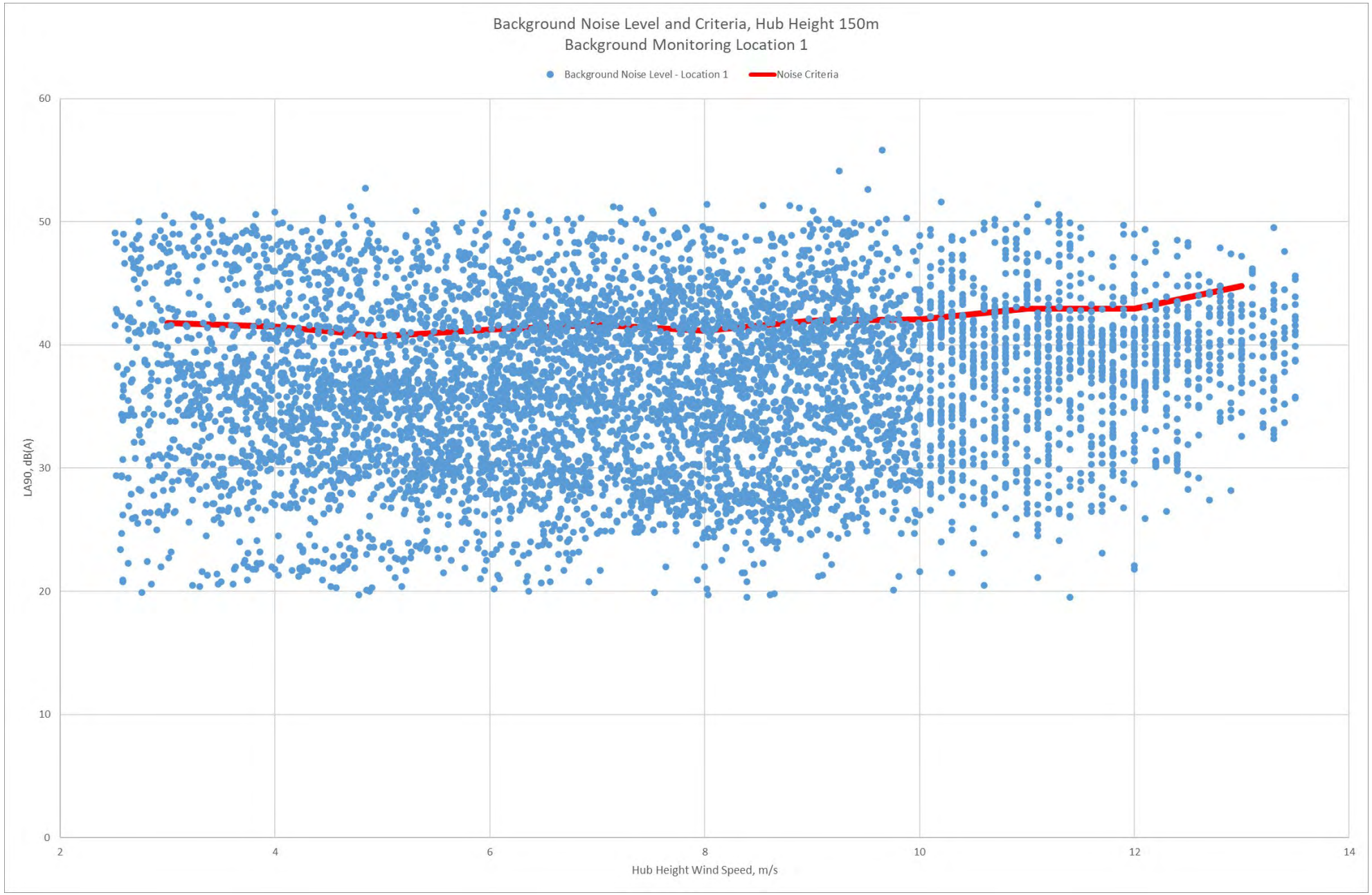

2 Apr 2025 12:04:29 pm
Unnamed Road
Williamstown
City of Kalgoorlie-Boulder
Western Australia

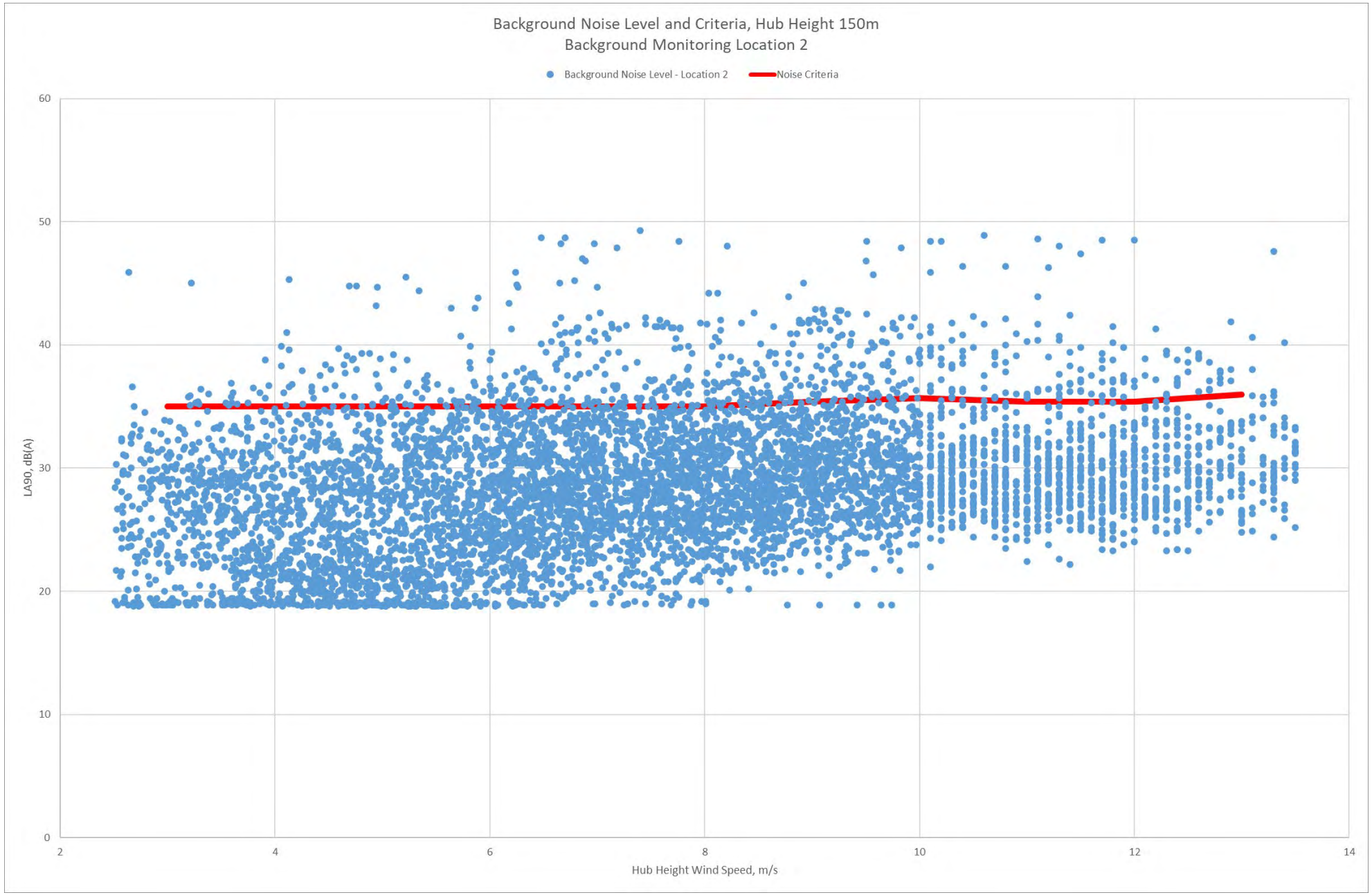
LOCATION 5


2 Apr 2025 1:05:41 pm

APPENDIX C

BACKGROUND NOISE LEVELS vs WIND SPEED PLOTS
150m AGL


Background Noise Level and Criteria, Hub Height 150m
Background Monitoring Location 1
Background Noise Level - Location 1
Noise Criteria
LA90, dB(A)
Hub Height Wind Speed, m/s
0
10
20
30
40
50
60
2
4
6
8
10
12
14


Background Noise Level and Criteria, Hub Height 150m
Background Monitoring Location 2
Background Noise Level - Location 2
Noise Criteria
LA90, dB(A)
Hub Height Wind Speed, m/s
0
10
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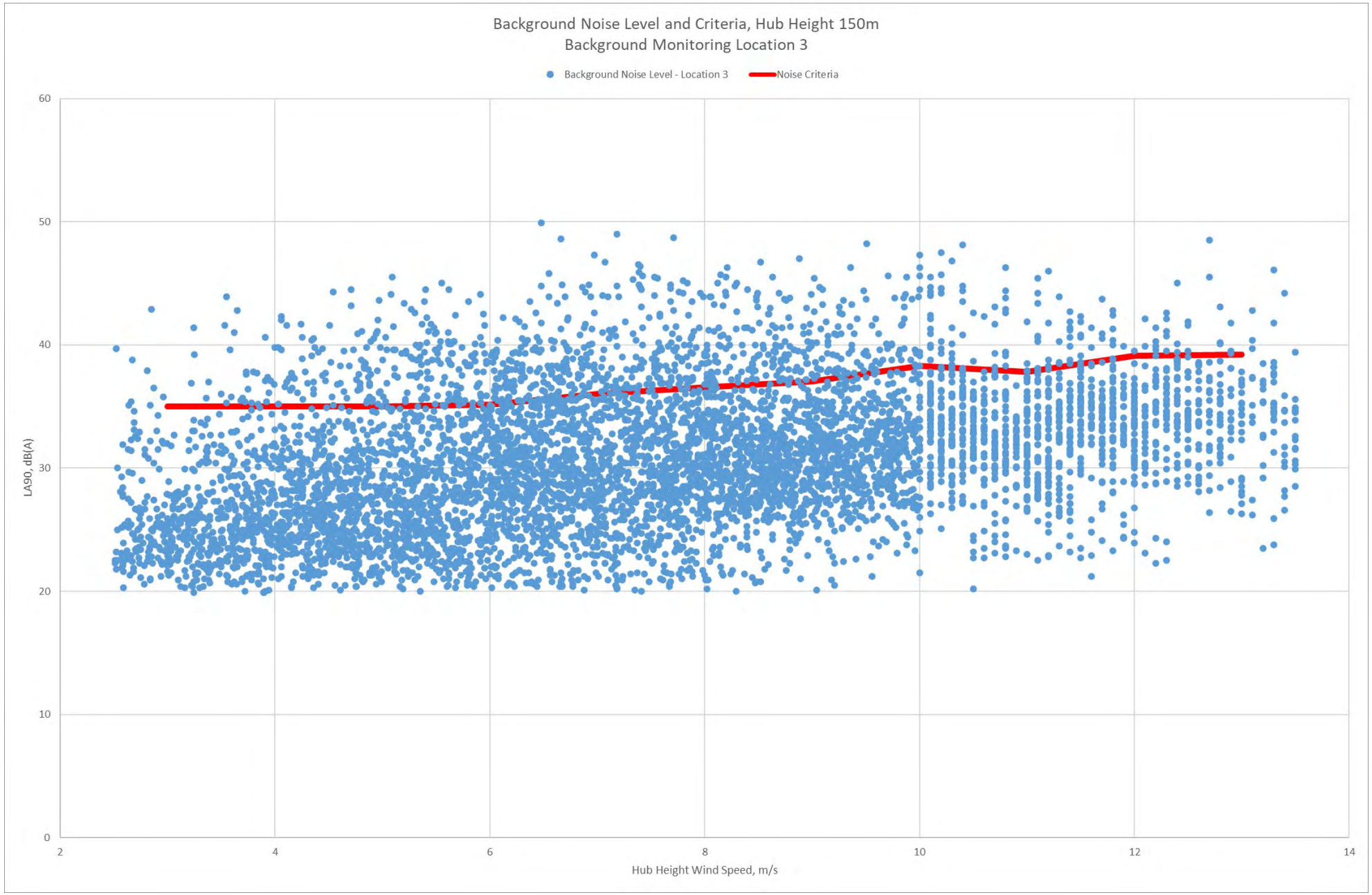
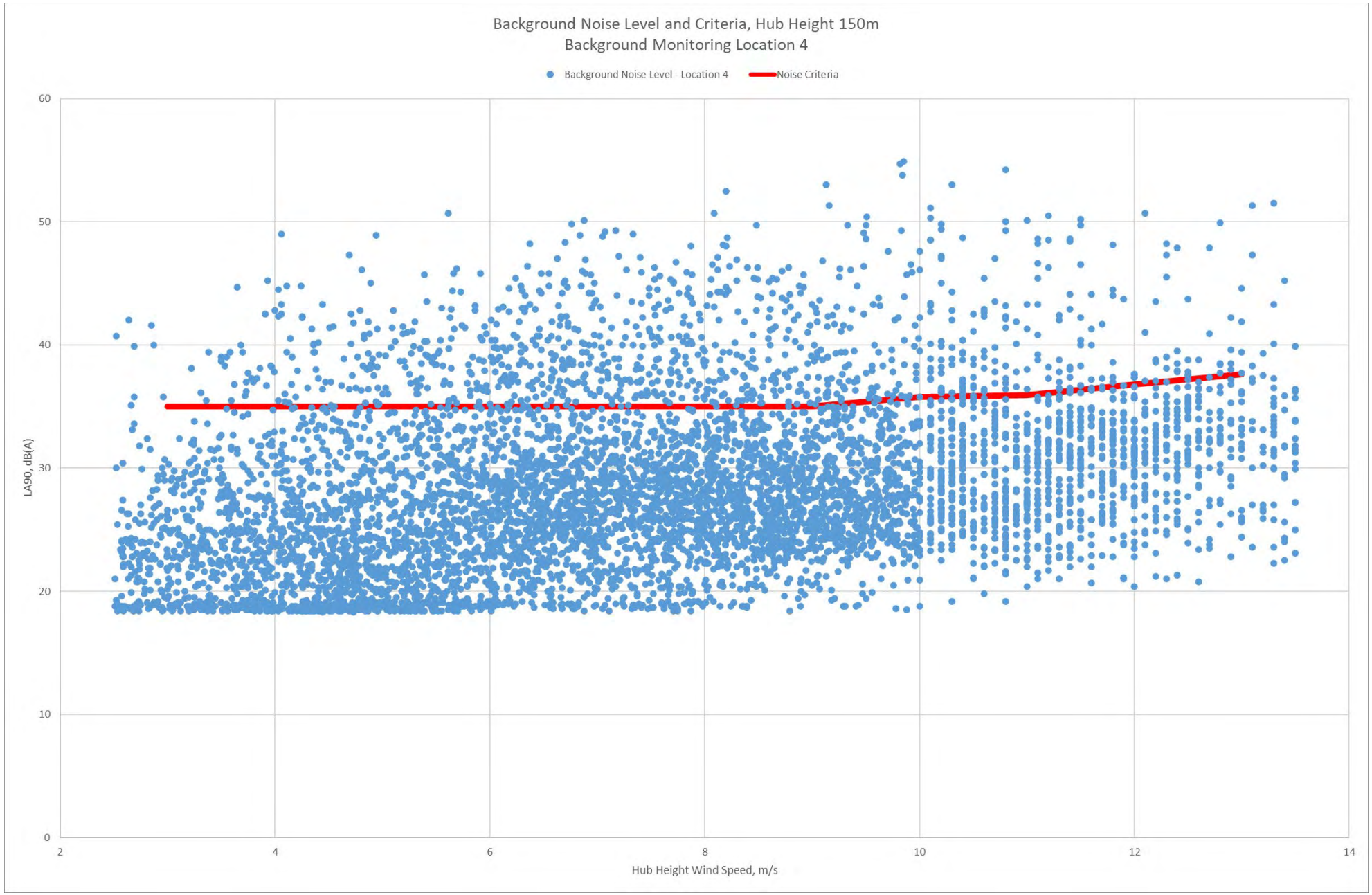
30
40
50
60
2
4
6
8
10
12
14


Background Noise Level and Criteria, Hub Height 150m
Background Monitoring Location 3
Background Noise Level - Location 3
Noise Criteria
LA90, dB(A)
Hub Height Wind Speed, m/s
0
10
20
30
40
50
60
2
4
6
8
10
12
14


Background Noise Level and Criteria, Hub Height 150m
Background Monitoring Location 4
Background Noise Level - Location 4
Noise Criteria
LA90, dB(A)
Hub Height Wind Speed, m/s
0
10
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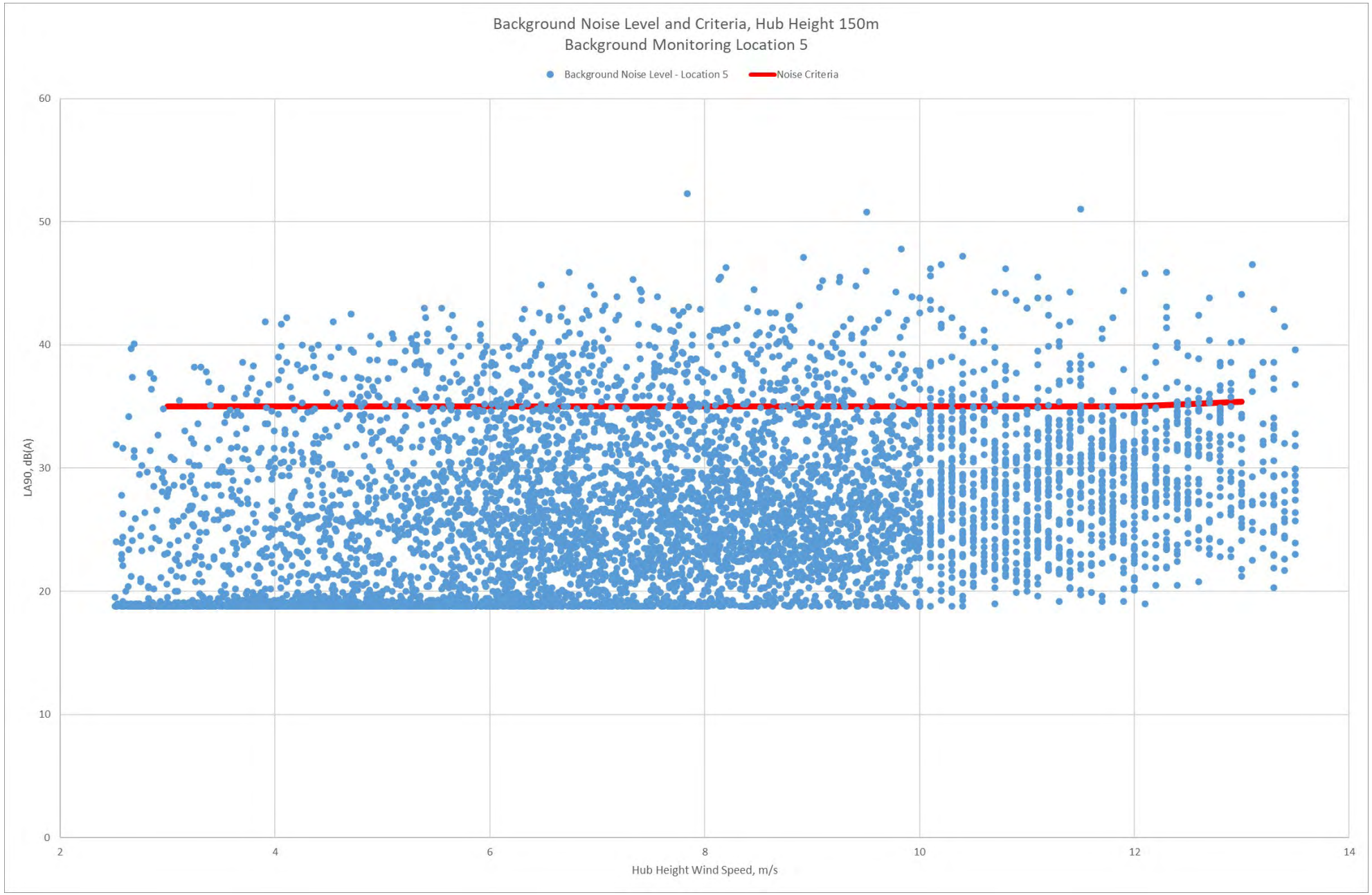
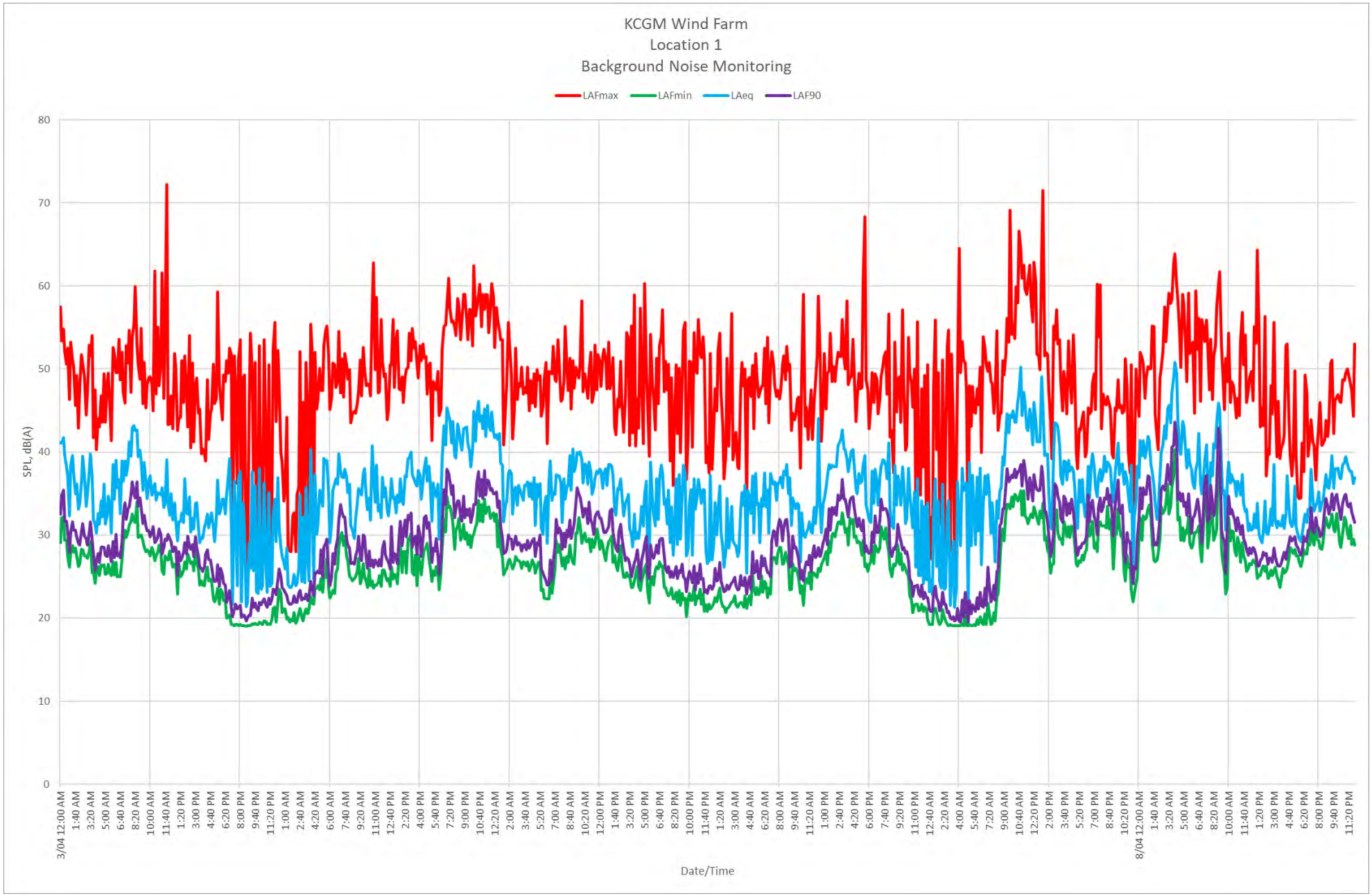
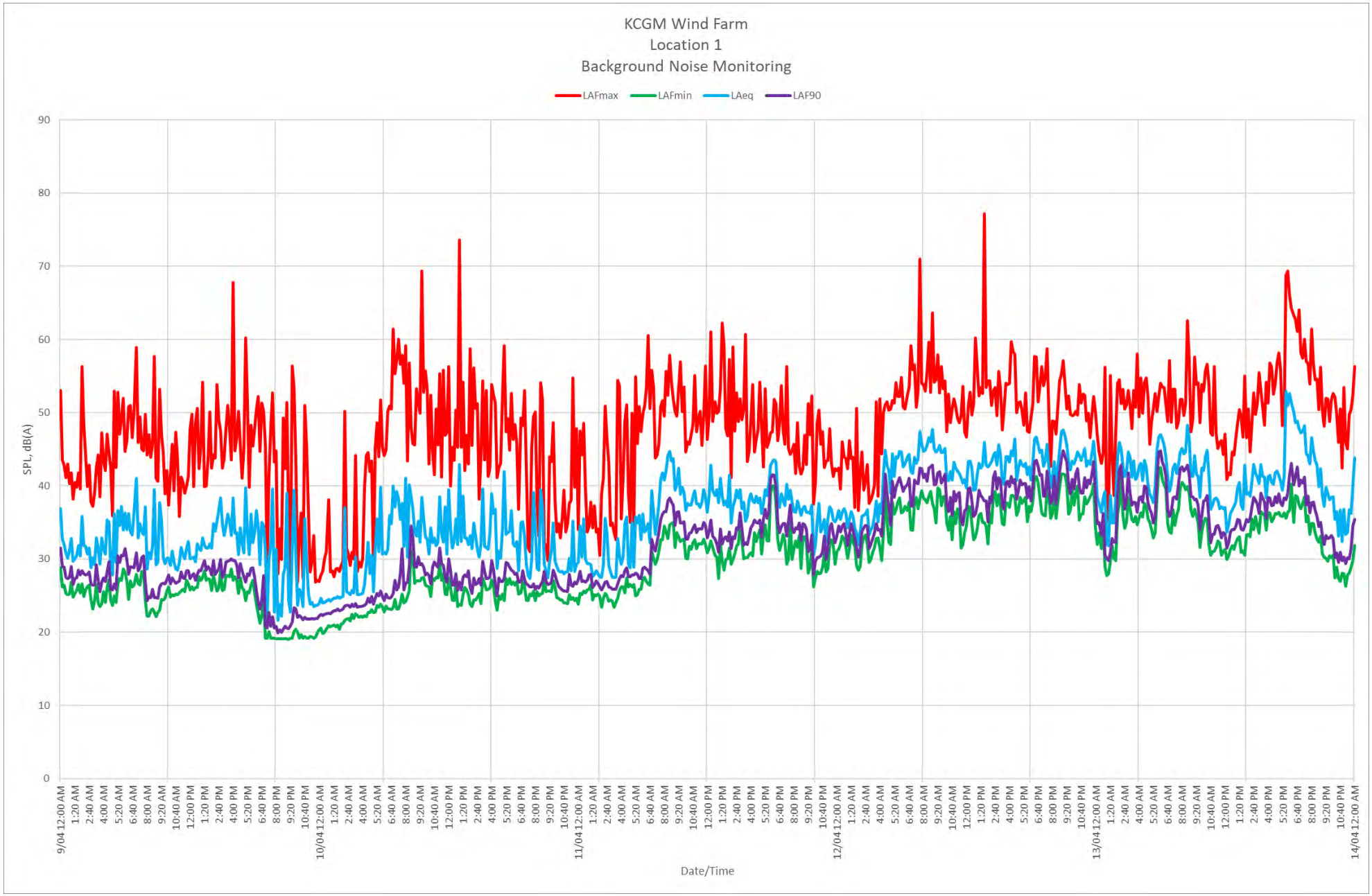
40
50
60
2
4
6
8
10
12
14

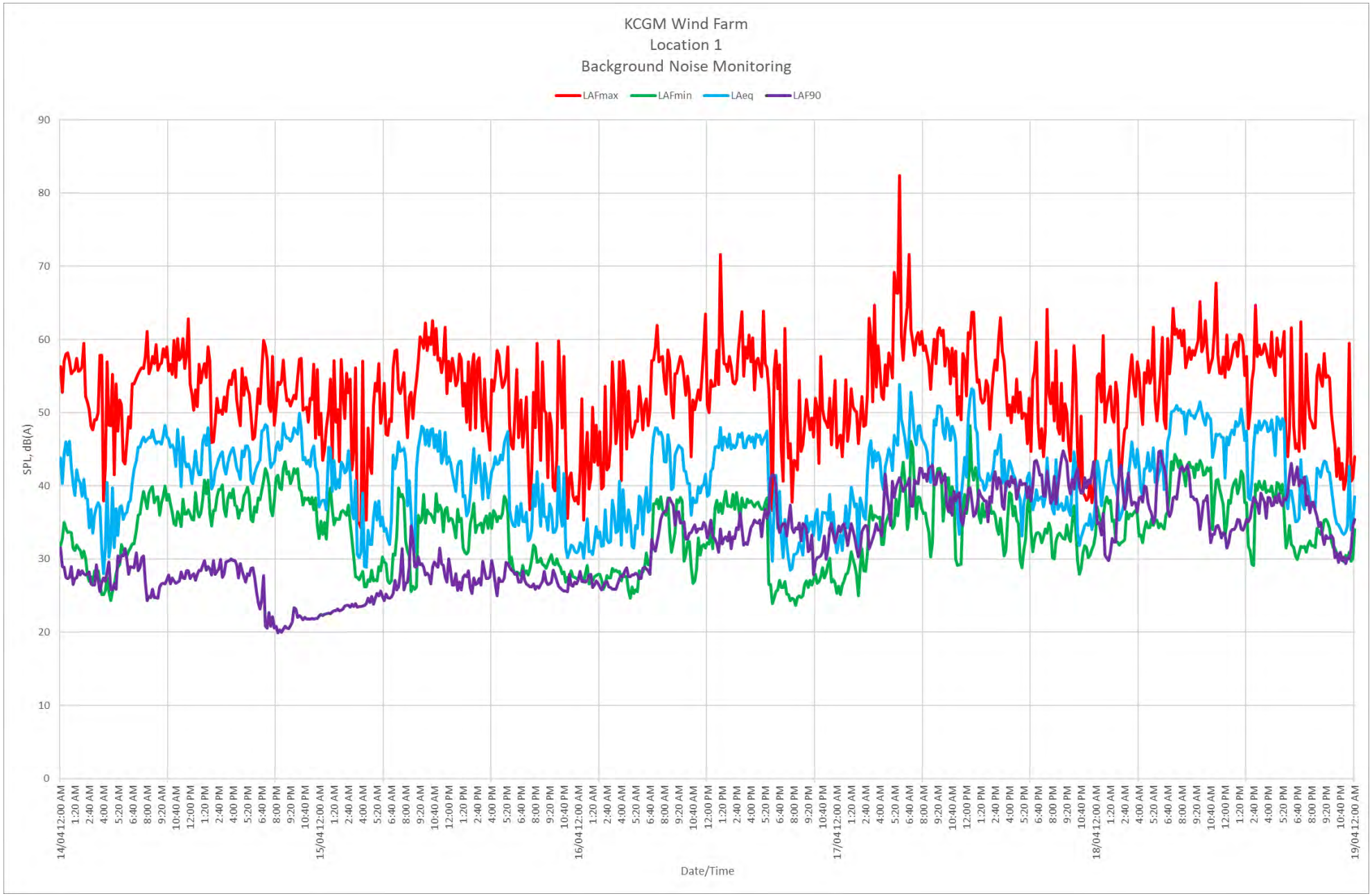

Background Noise Level and Criteria, Hub Height 150m
Background Monitoring Location 5
Background Noise Level - Location 5
Noise Criteria
LA90, dB(A)
Hub Height Wind Speed, m/s
0
10
20
30
40
50
60
2
4
6
8
10
12
14

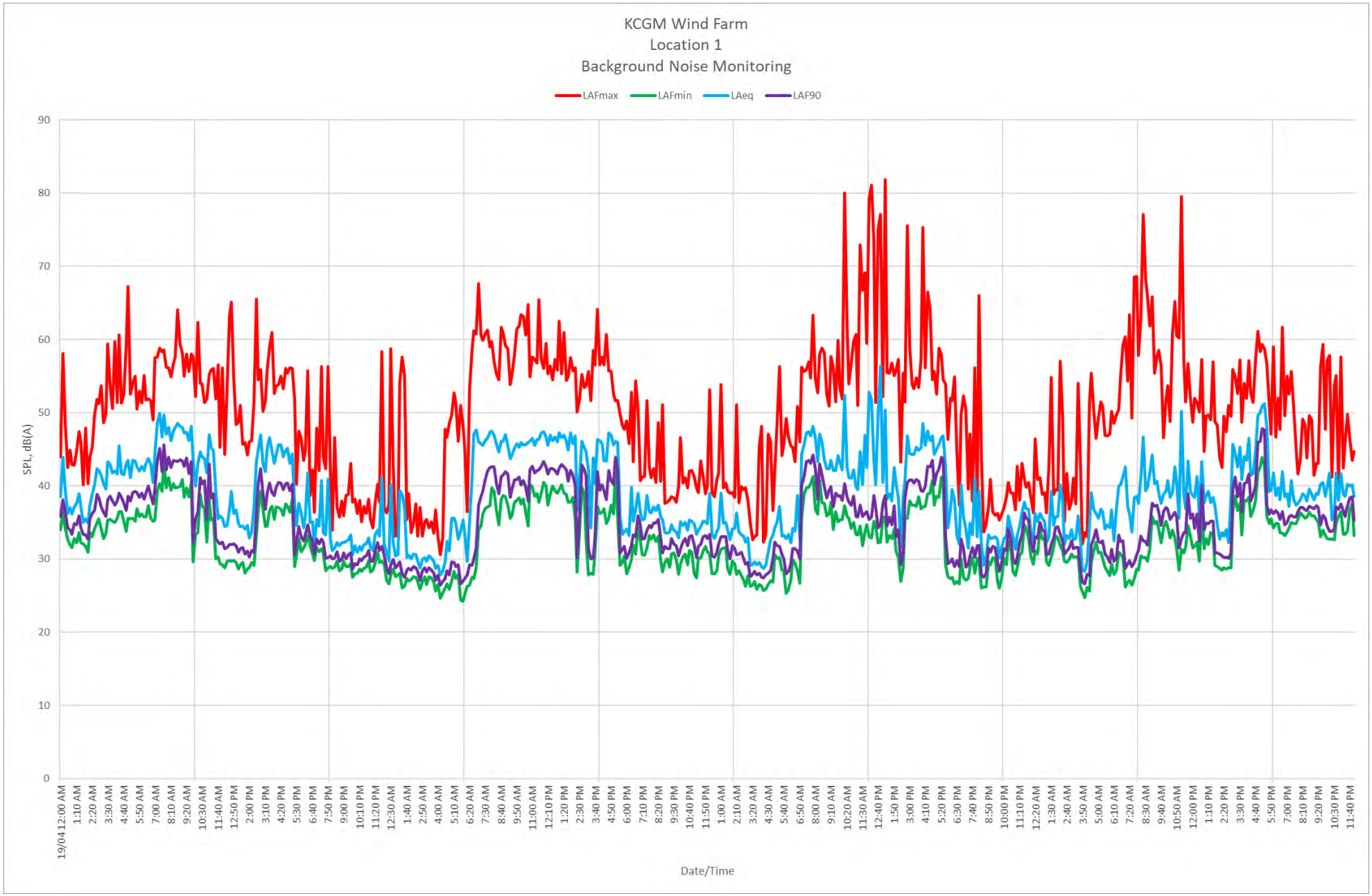
APPENDIX D

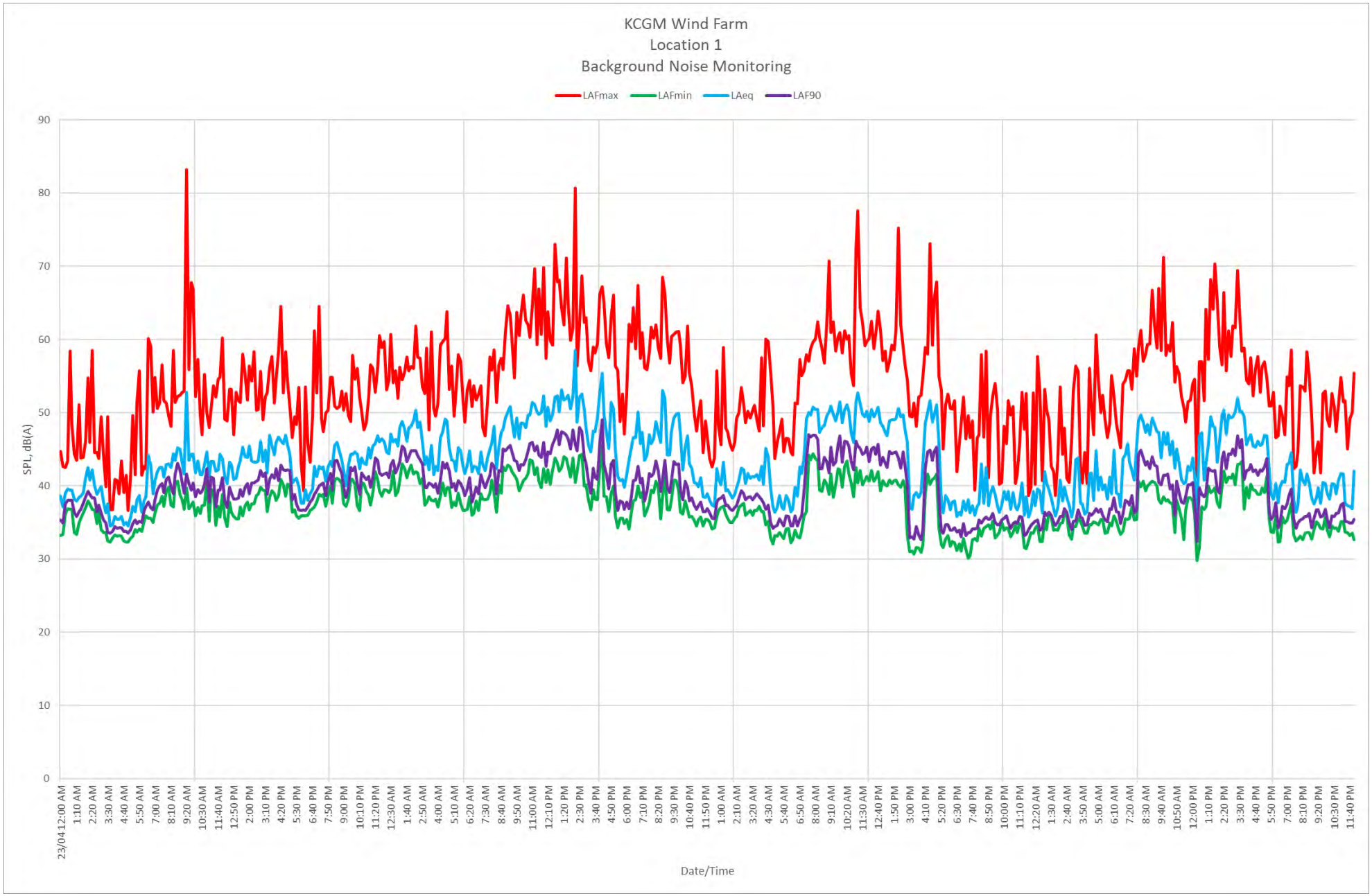
BACKGROUND NOISE LEVELS TIME HISTORY PLOTS

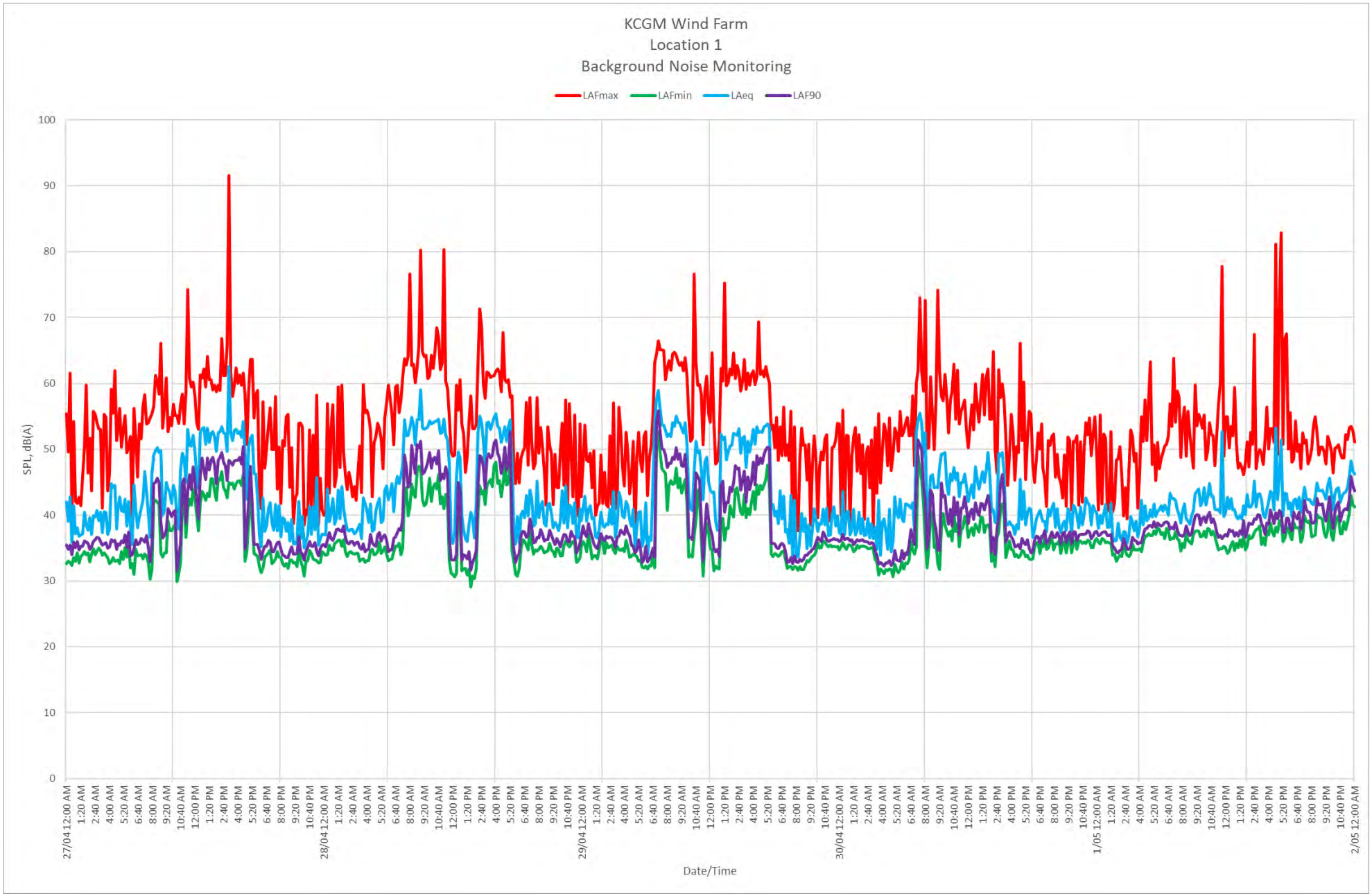

KCGM Wind Farm
Location 1
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

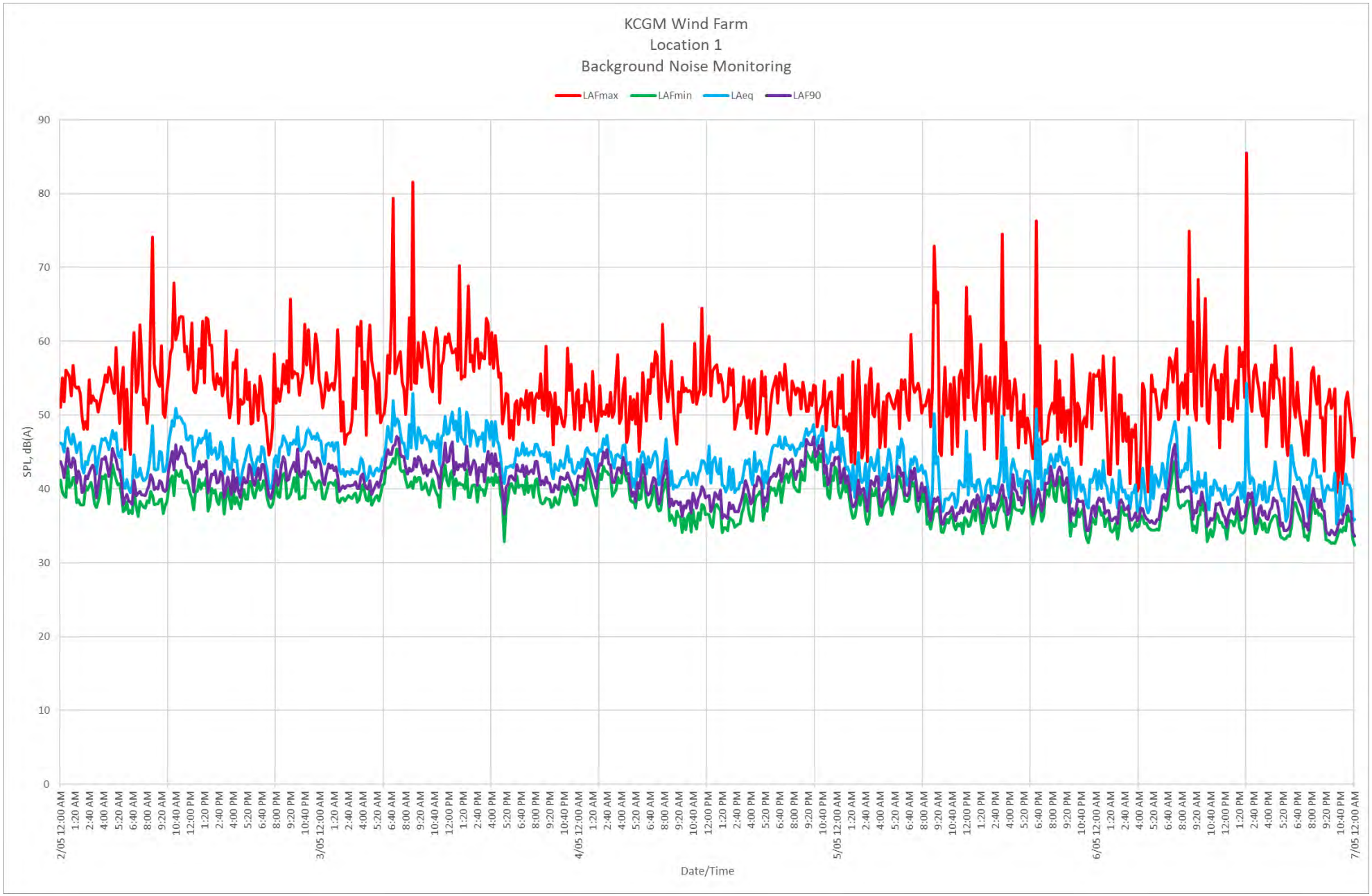

KCGM Wind Farm
Location 1
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

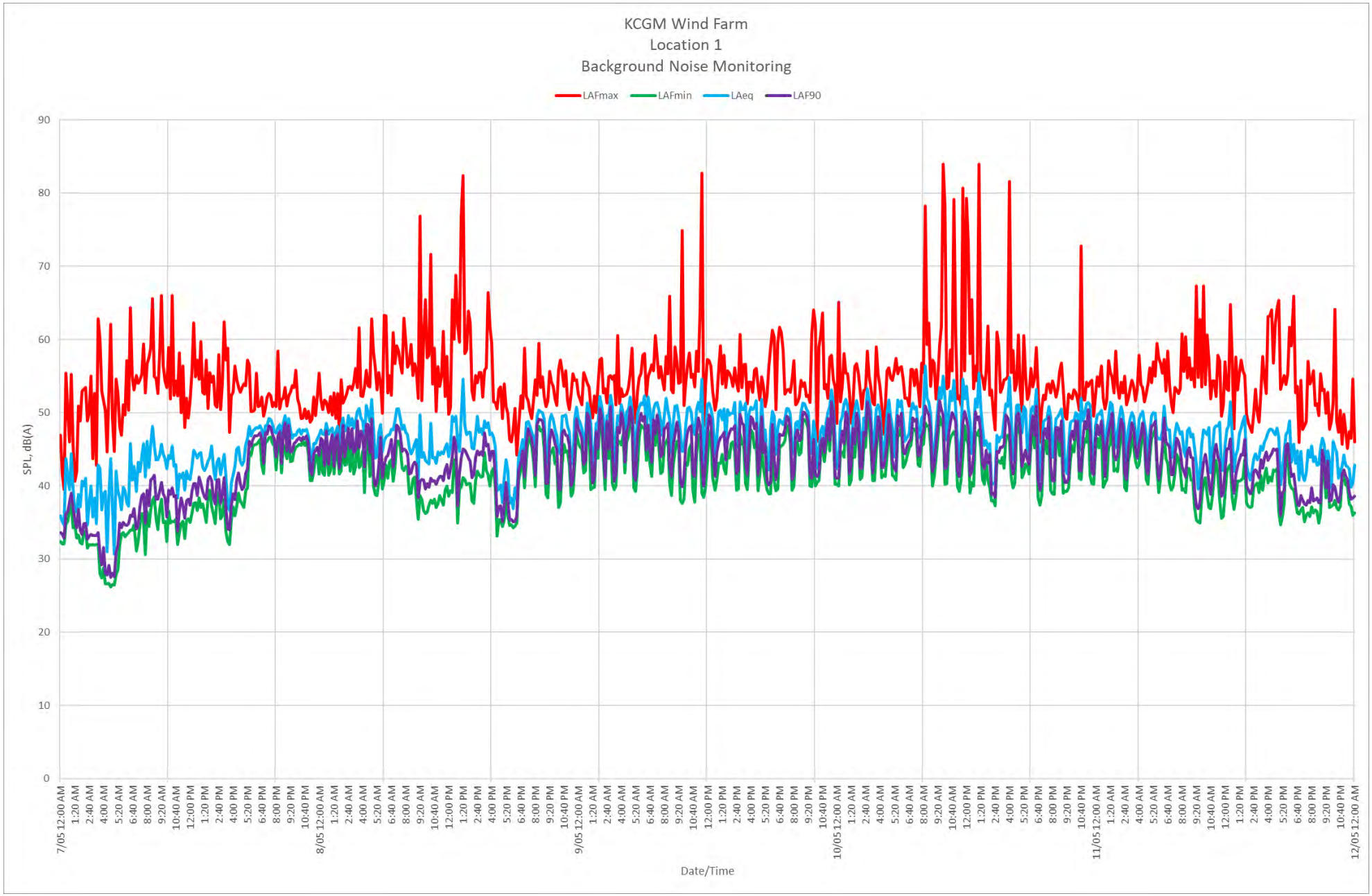

KCGM Wind Farm
Location 1
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

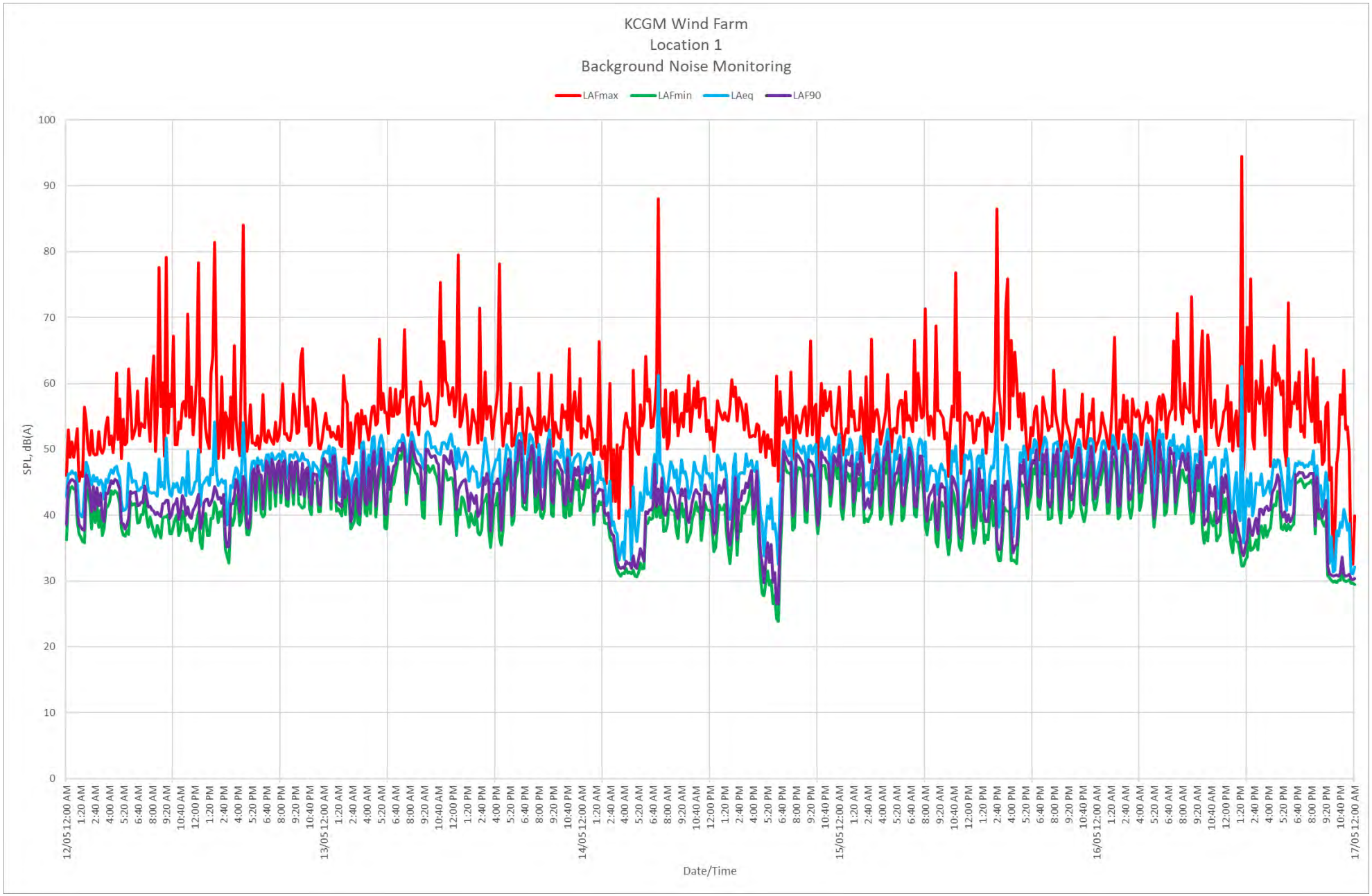

KCGM Wind Farm
Location 1
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

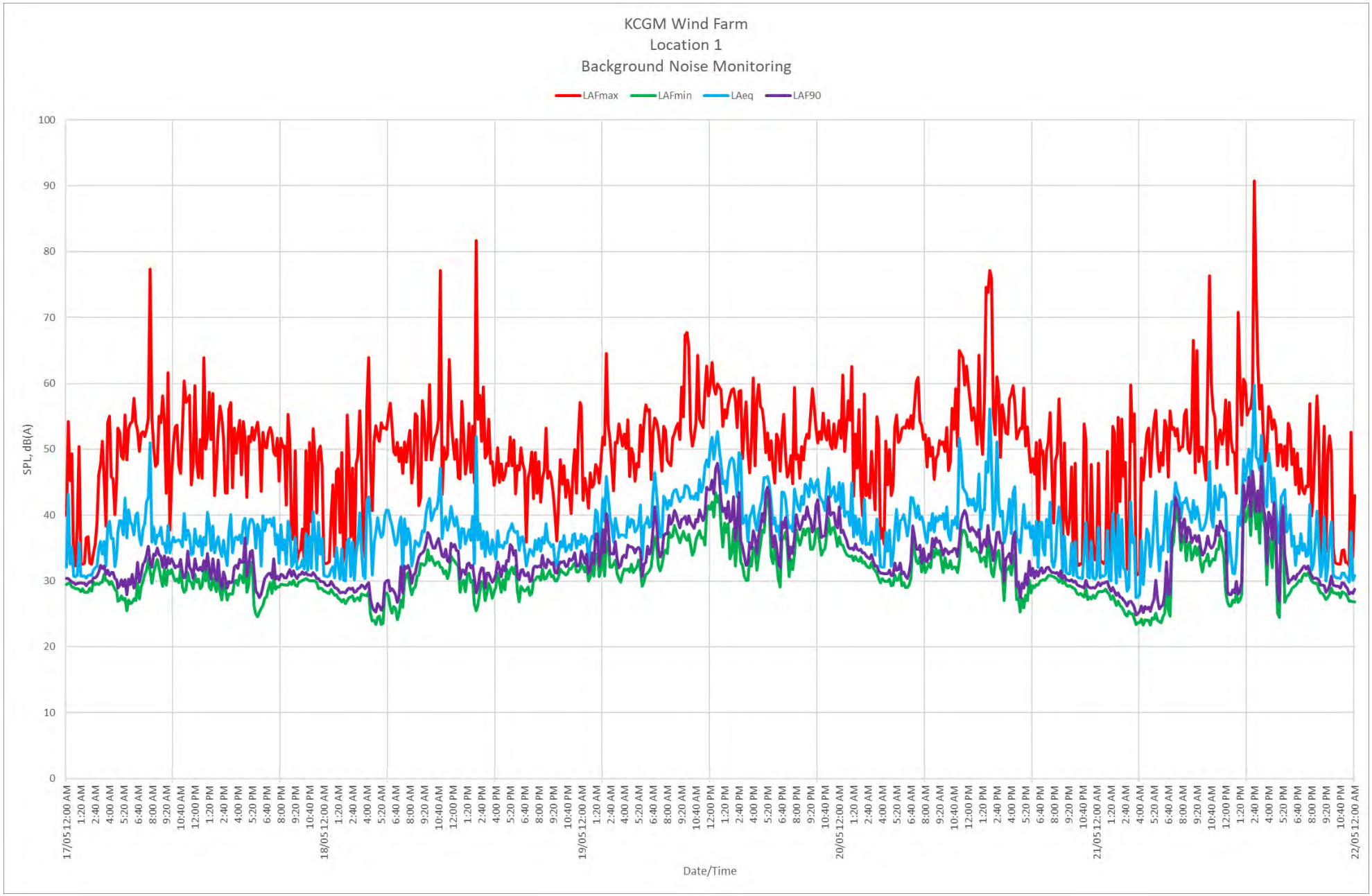

KCGM Wind Farm
Location 1
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

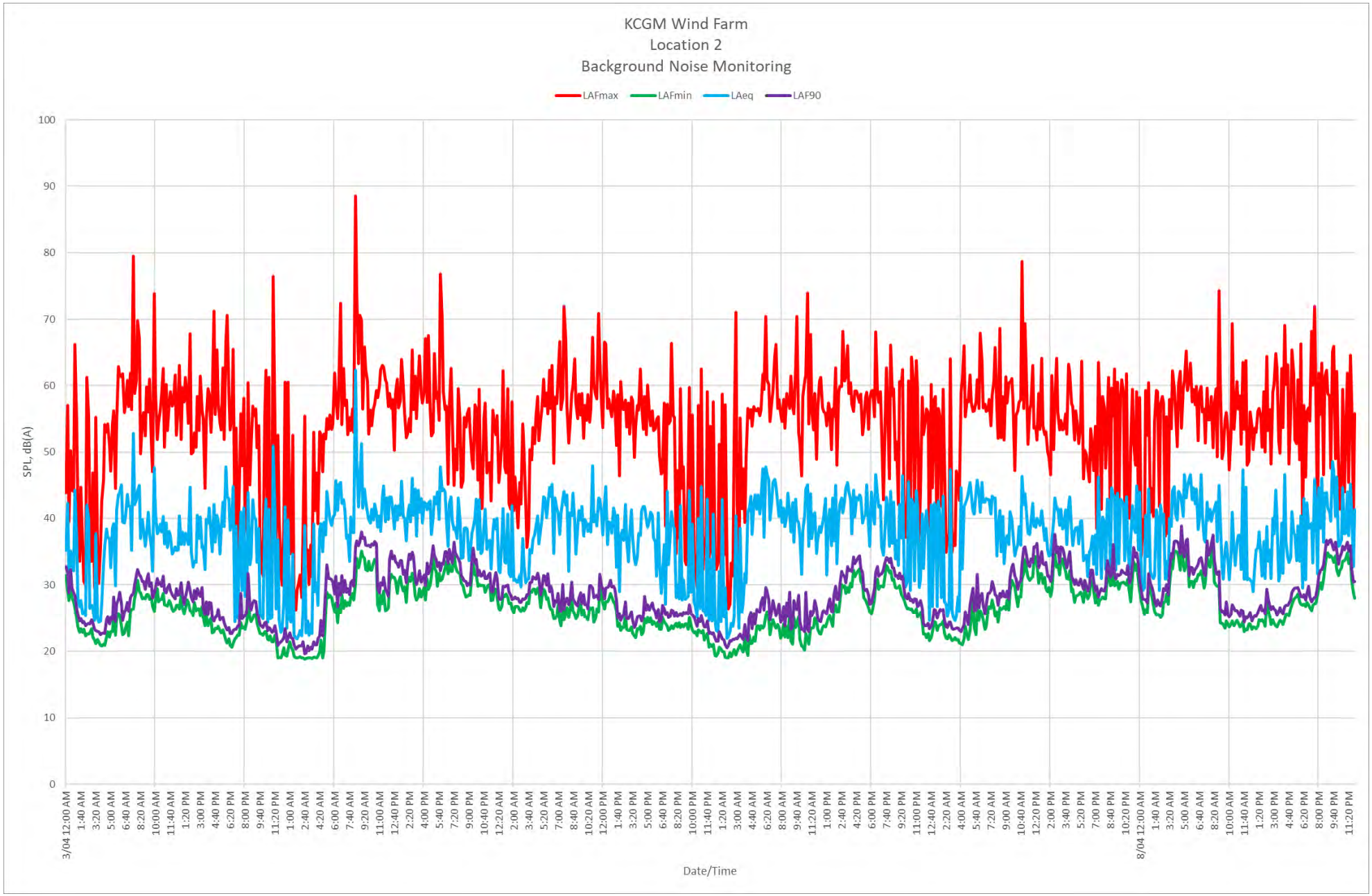

KCGM Wind Farm
Location 1
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

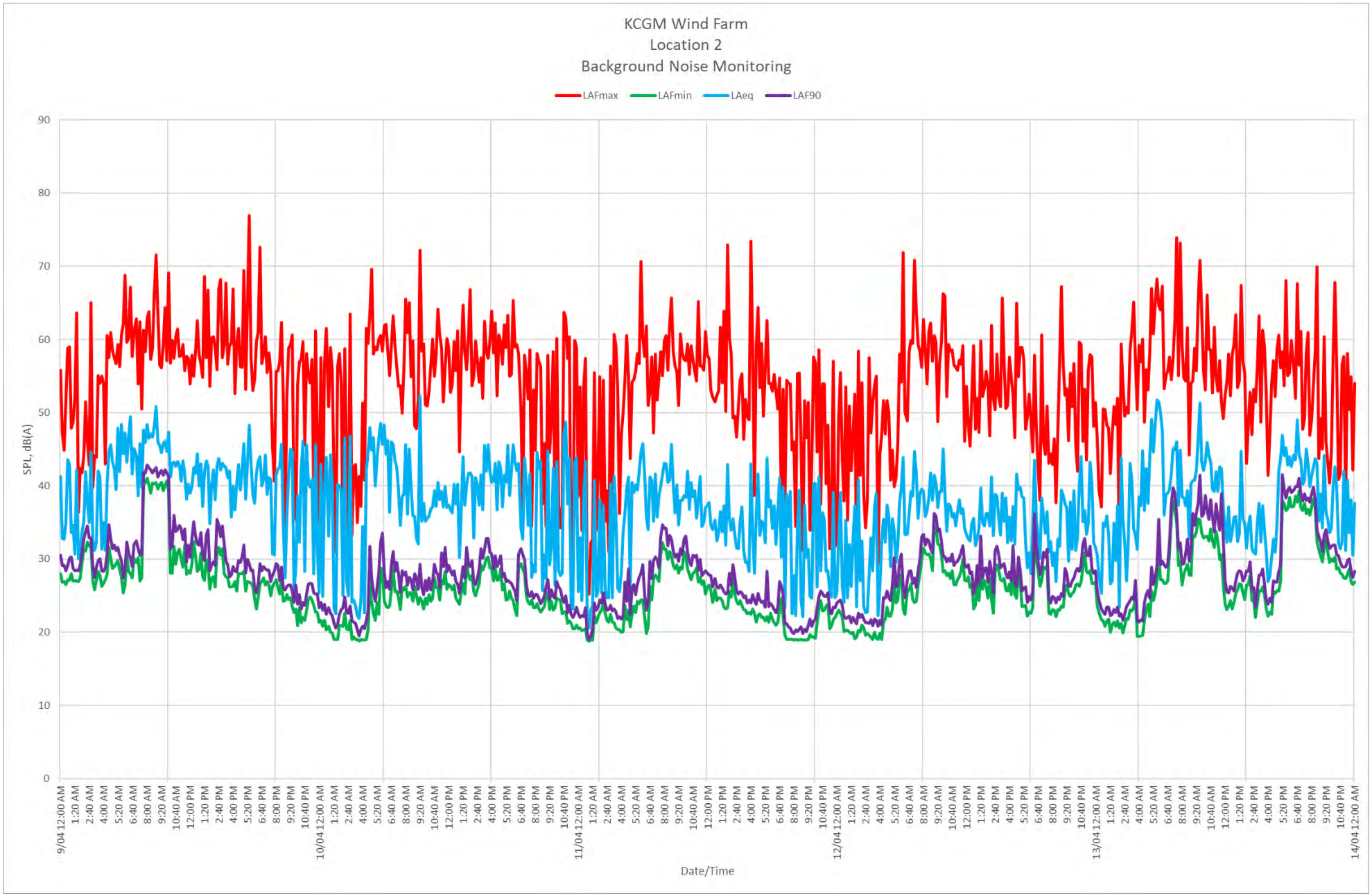

KCGM Wind Farm
Location 1
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

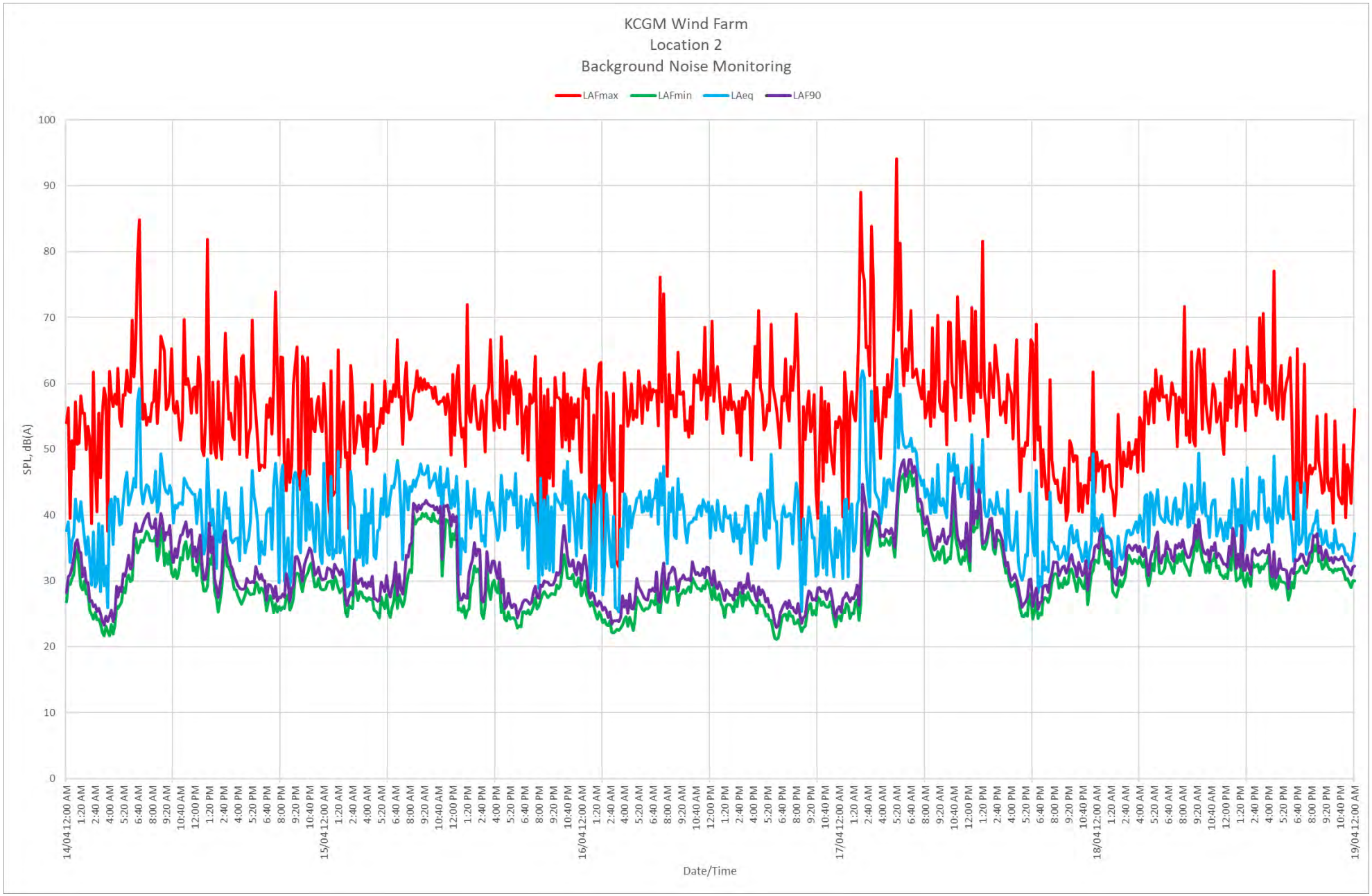

KCGM Wind Farm
Location 1
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

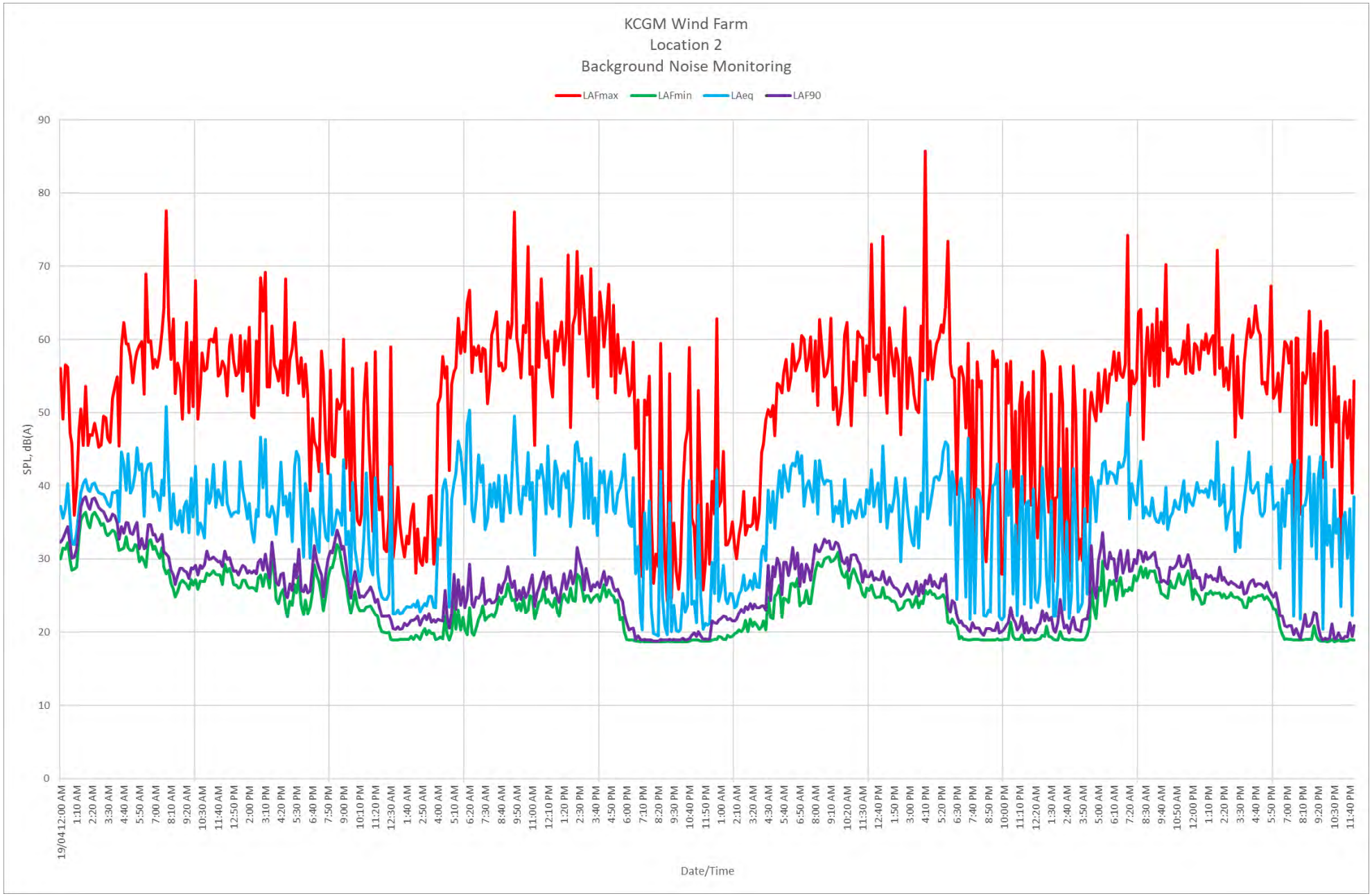

KCGM Wind Farm
Location 1
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

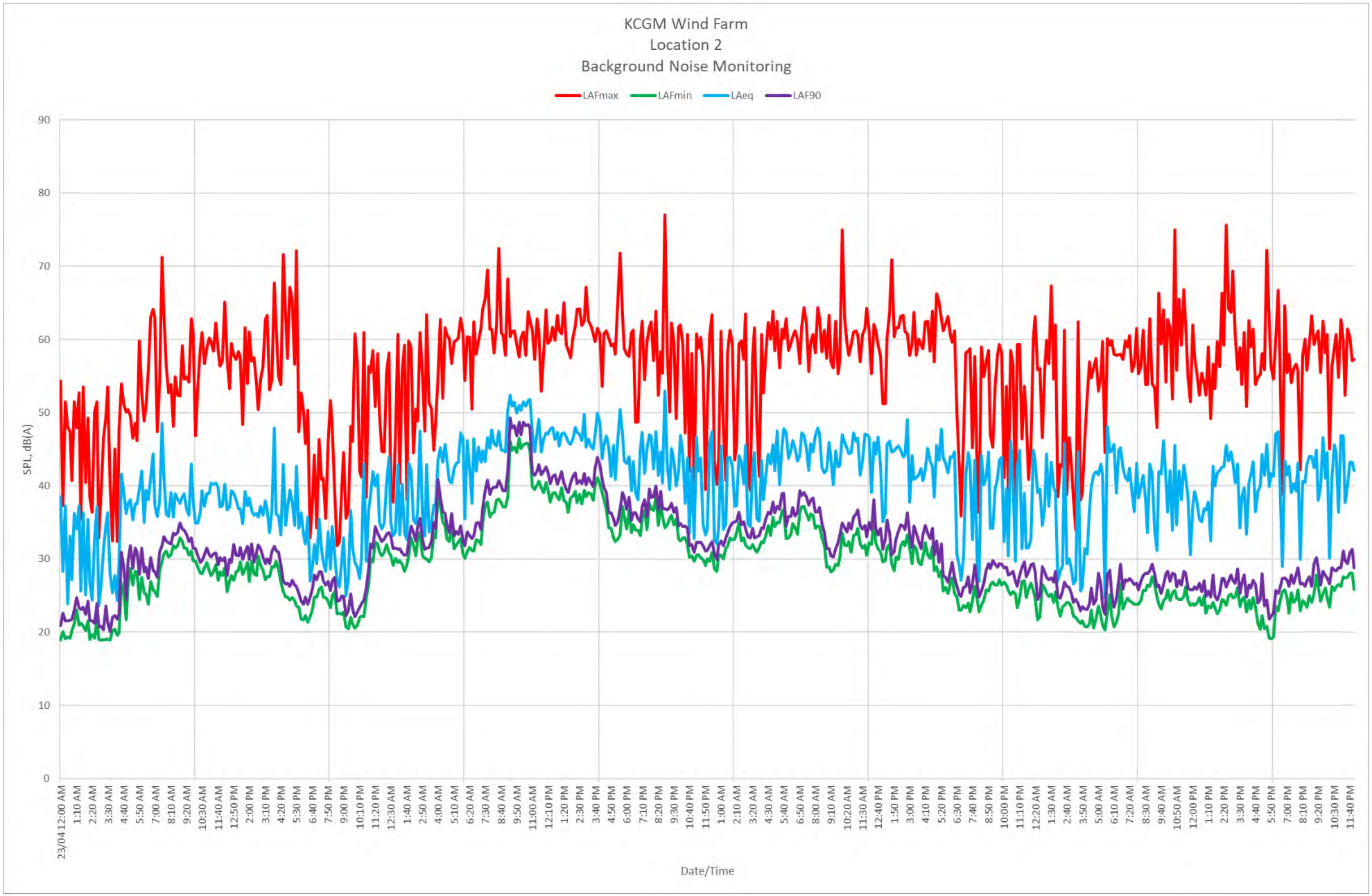

KCGM Wind Farm
Location 1
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

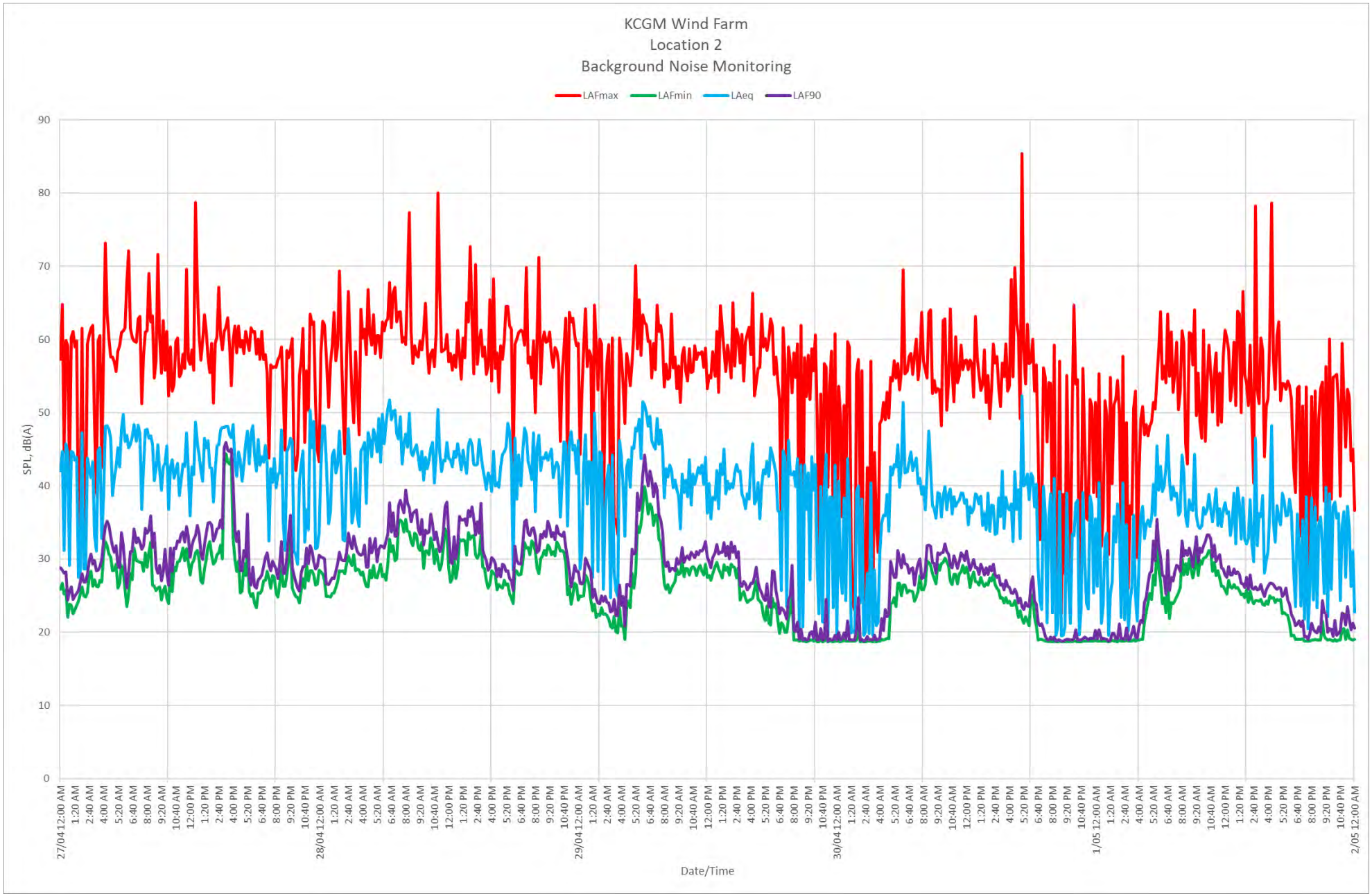

KCGM Wind Farm
Location 2
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

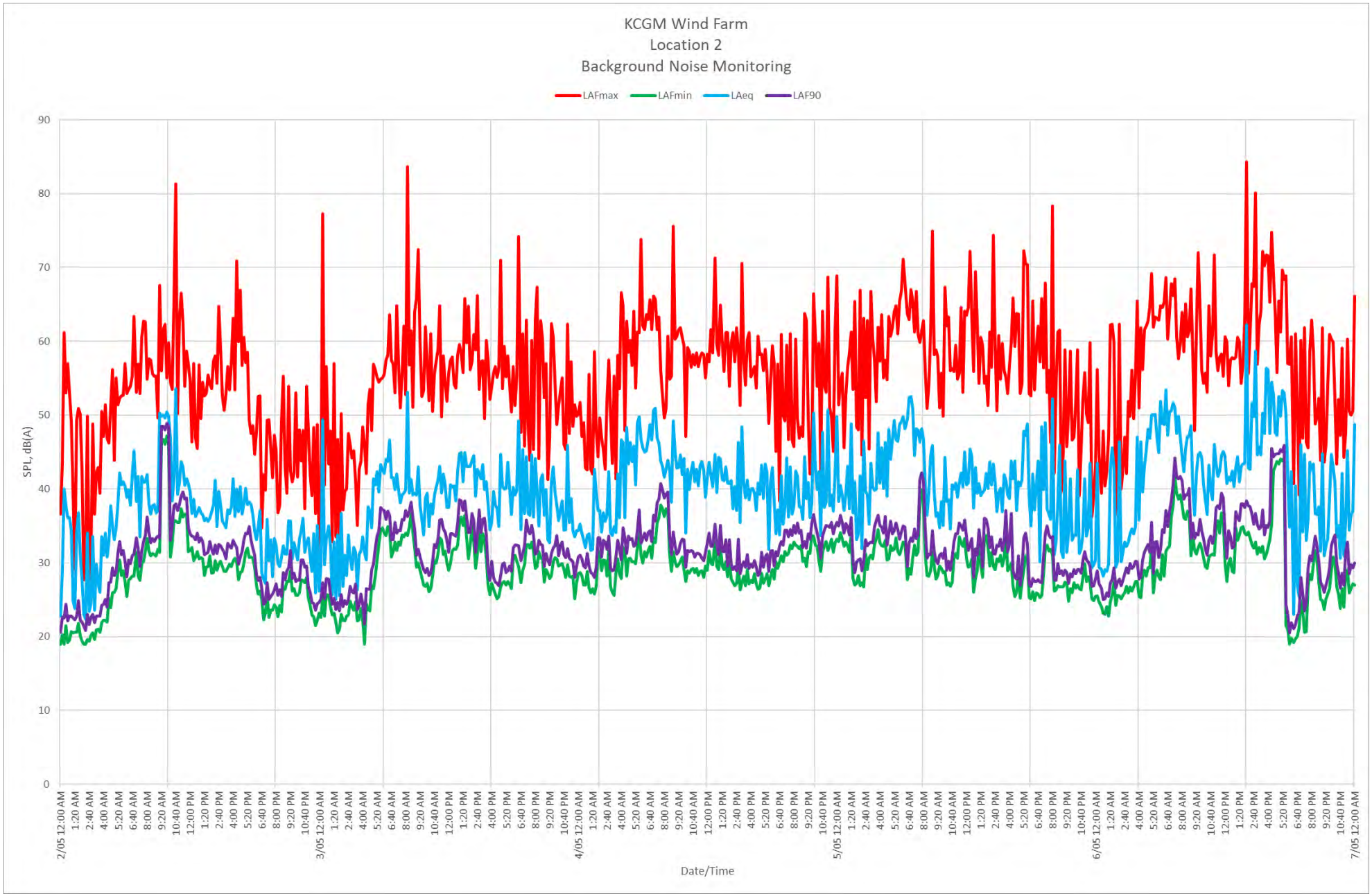

KCGM Wind Farm
Location 2
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

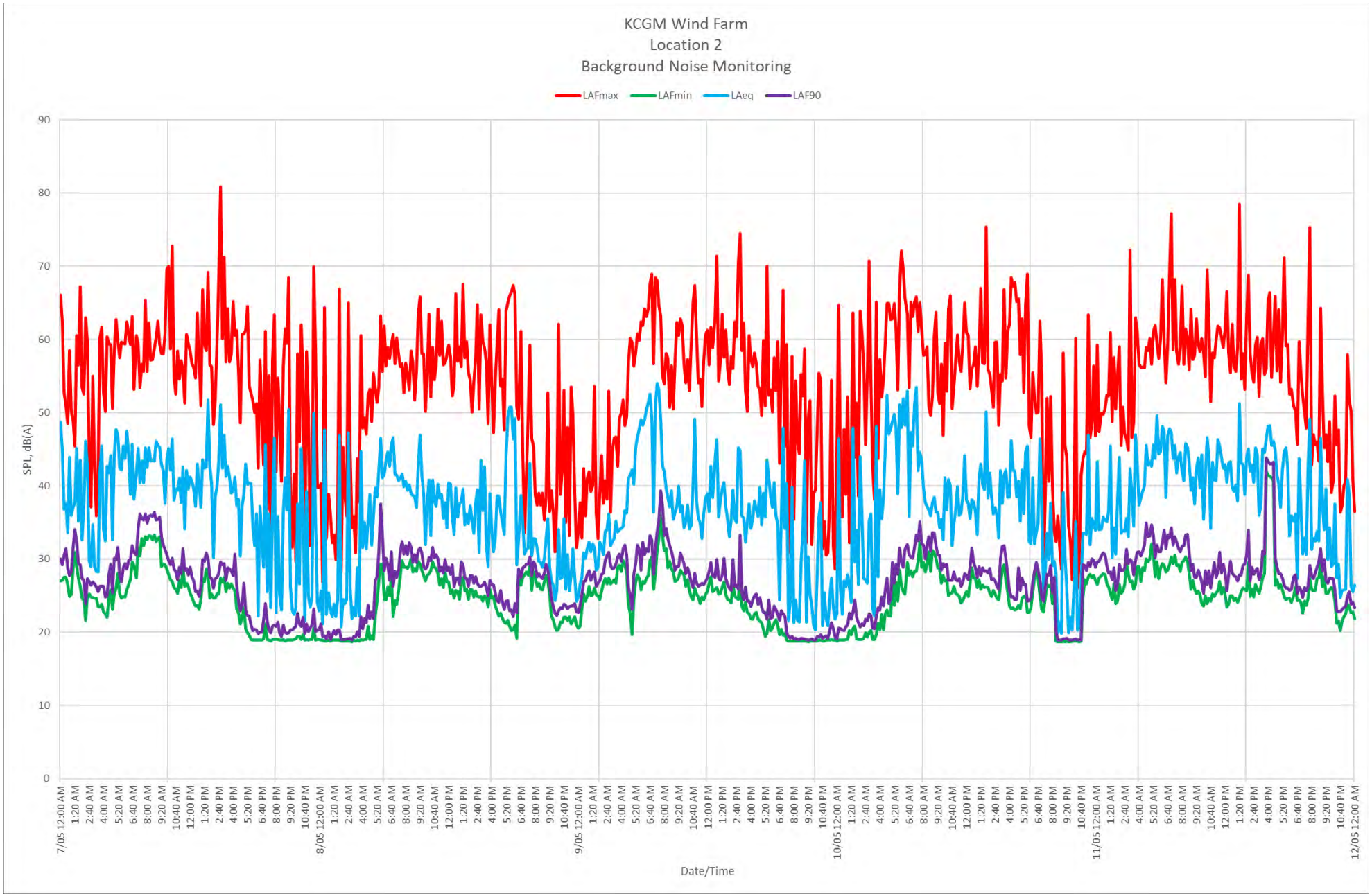

KCGM Wind Farm
Location 2
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

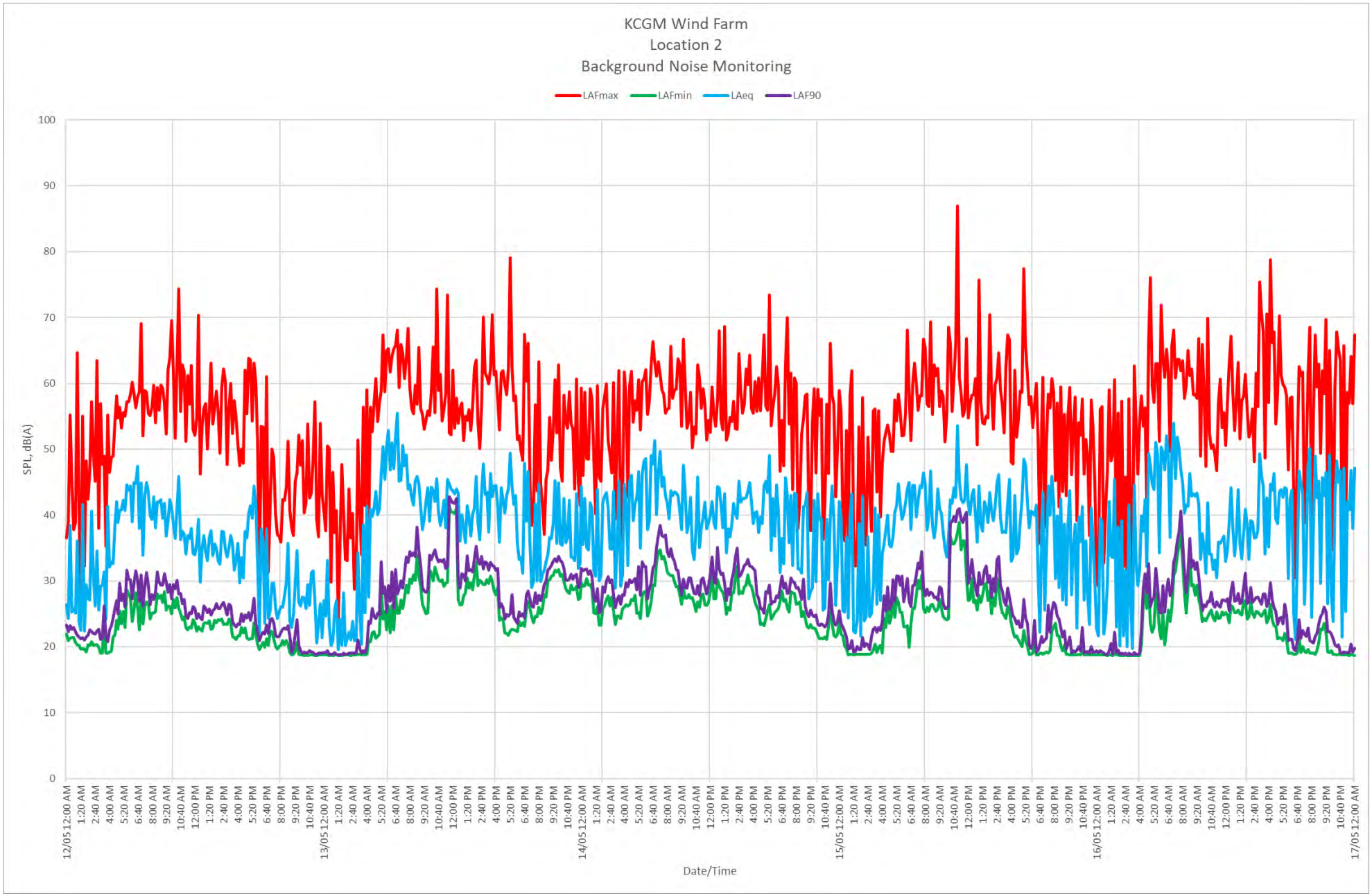

KCGM Wind Farm
Location 2
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

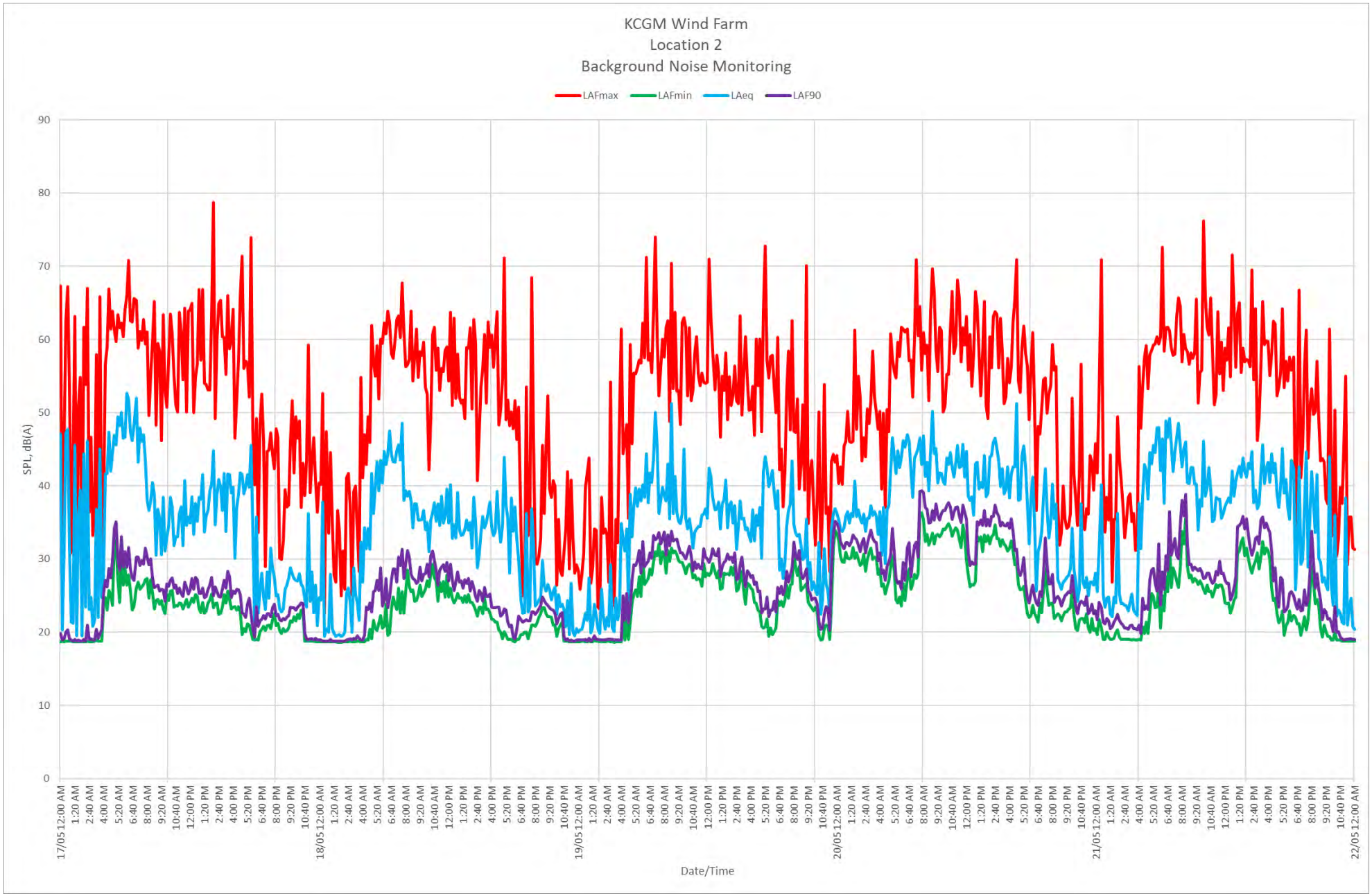

KCGM Wind Farm
Location 2
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

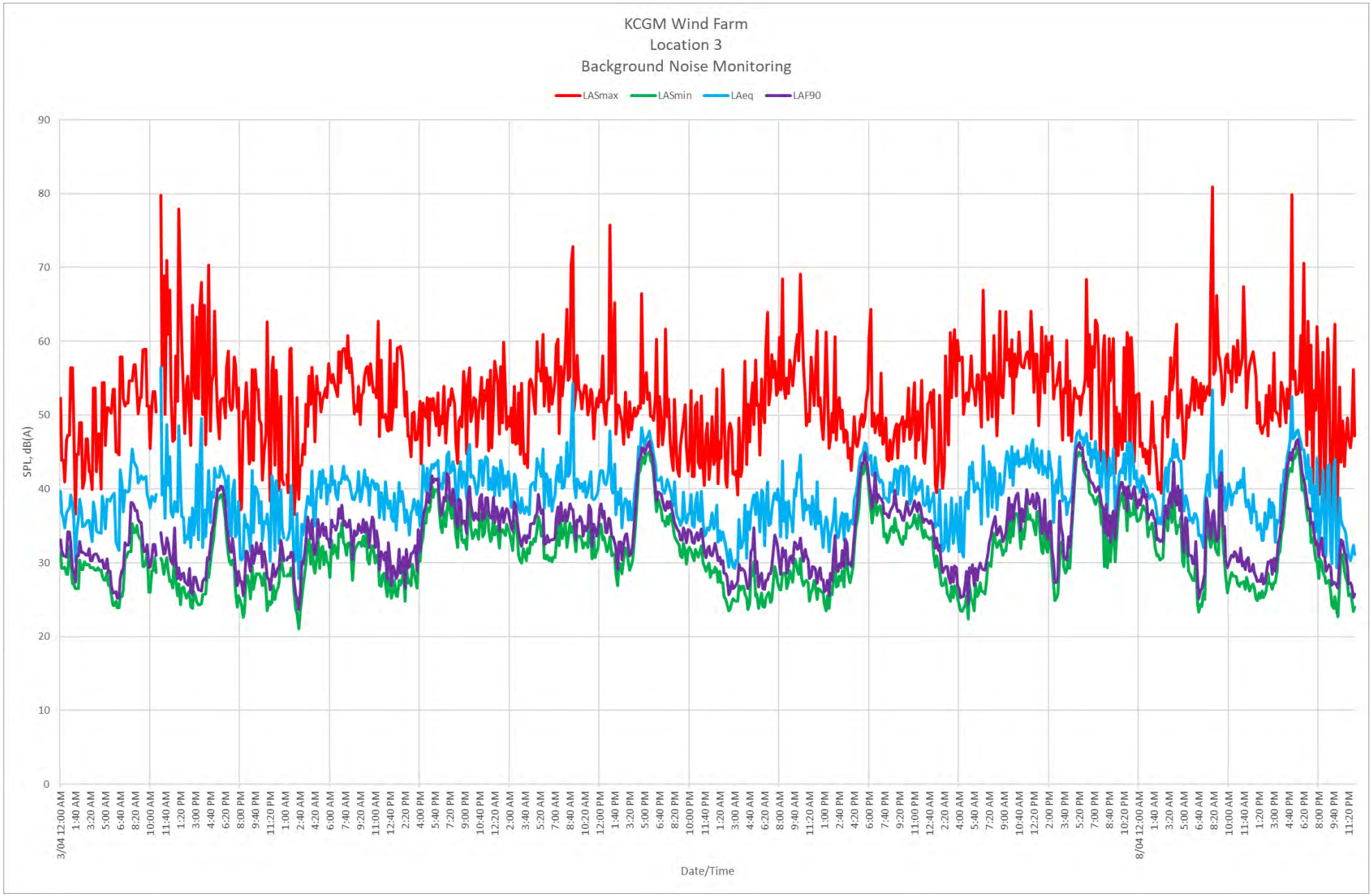

KCGM Wind Farm
Location 2
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

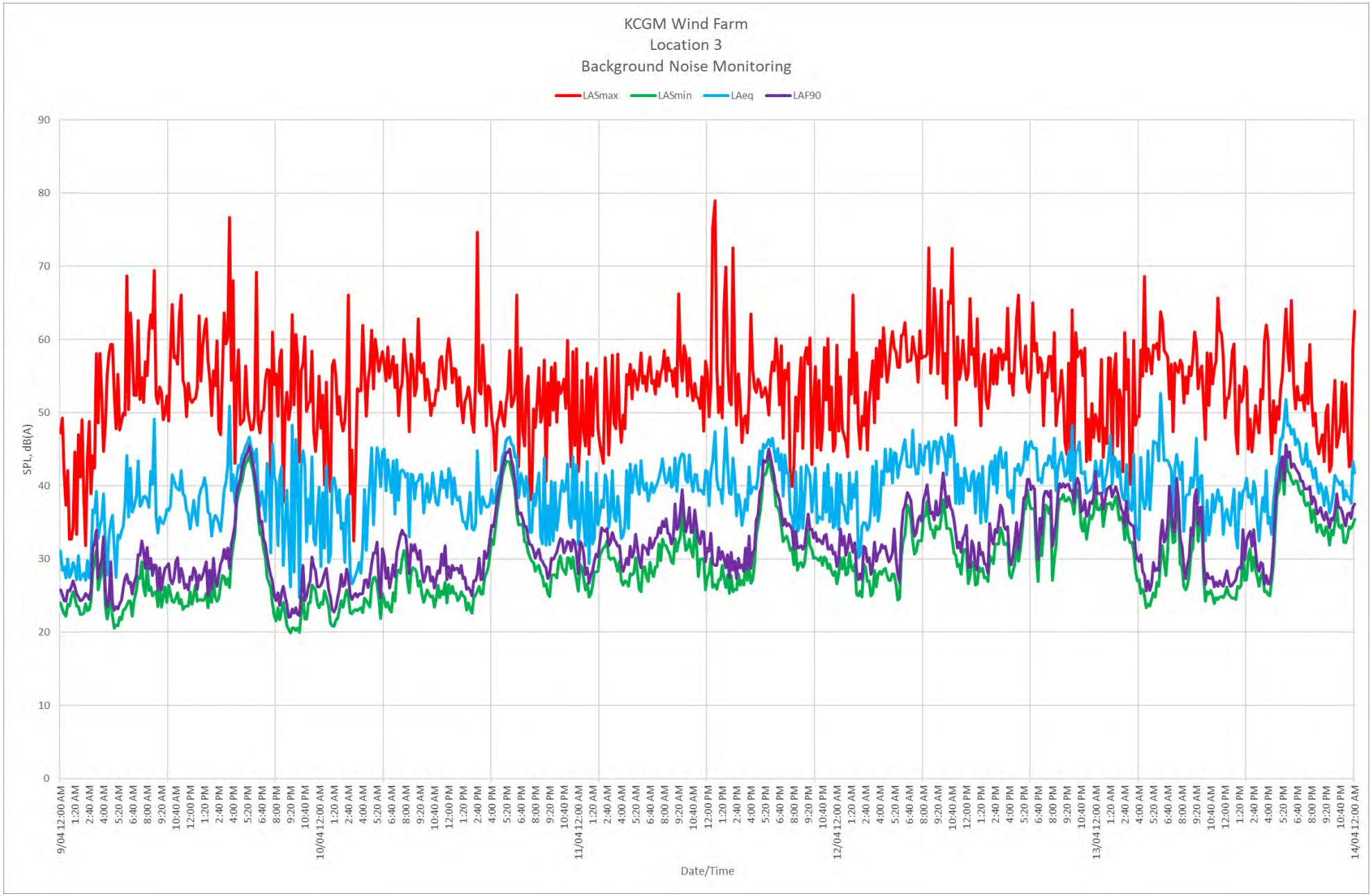

KCGM Wind Farm
Location 2
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

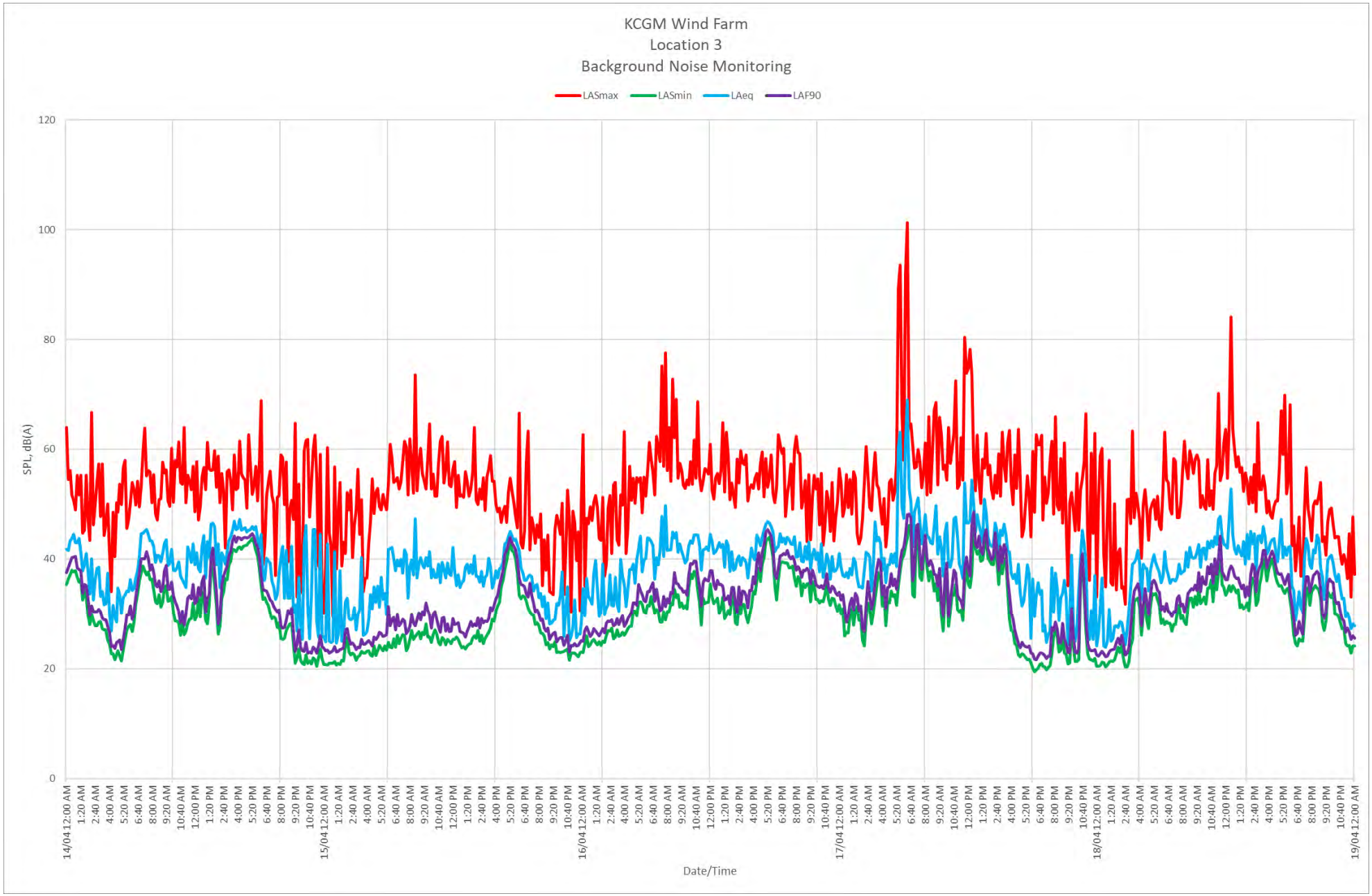

KCGM Wind Farm
Location 2
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

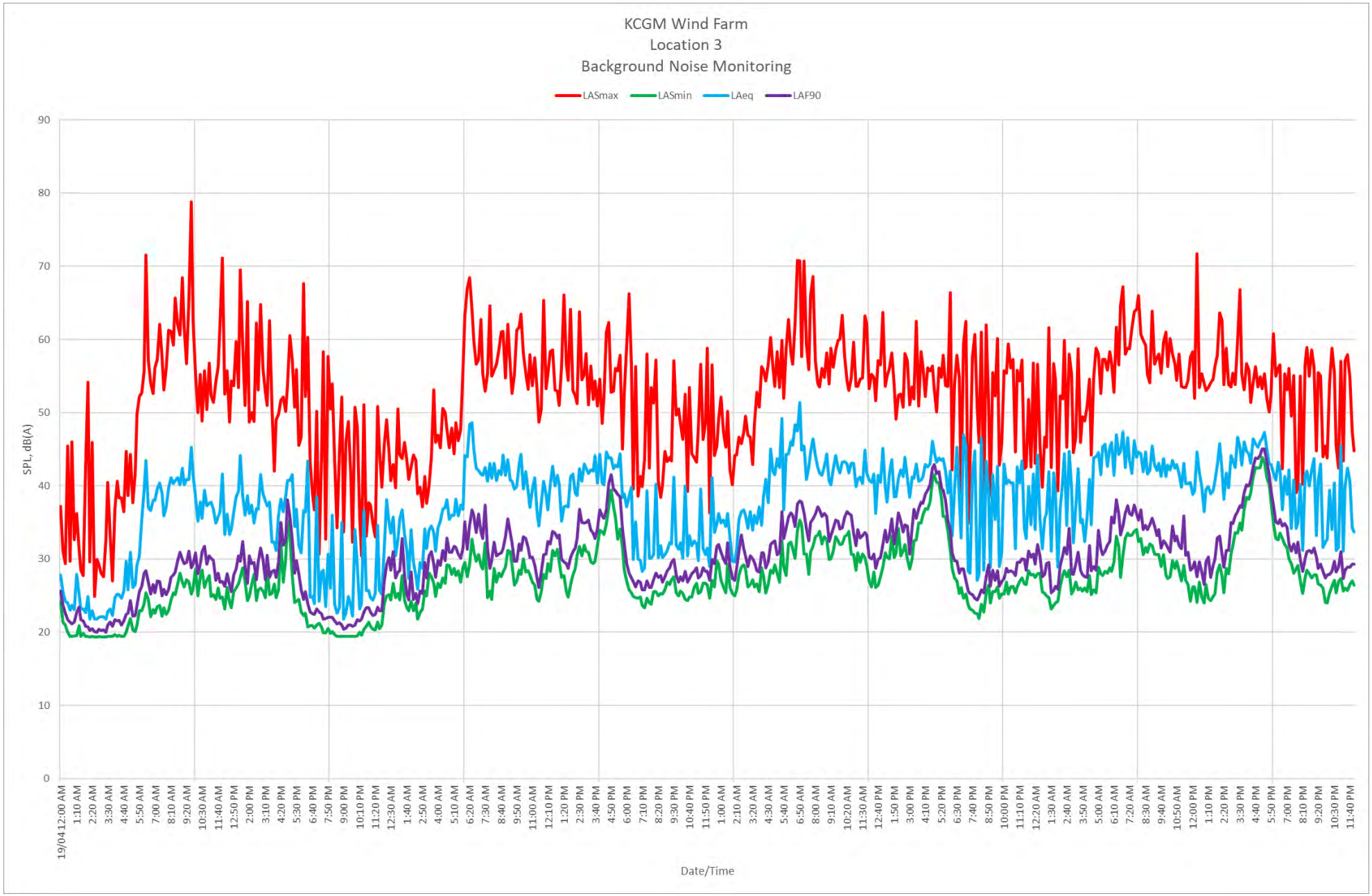

KCGM Wind Farm
Location 2
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

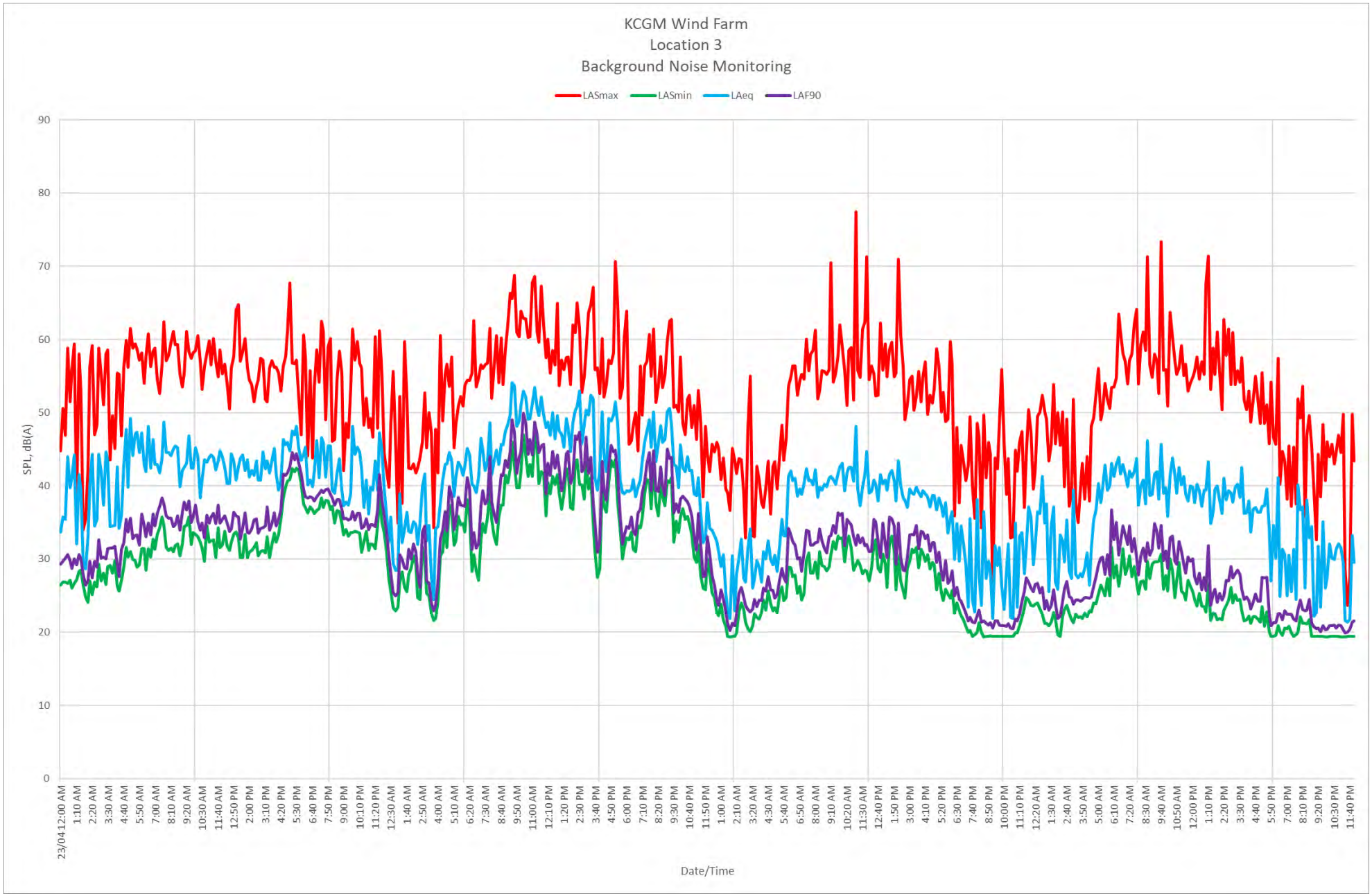

KCGM Wind Farm
Location 2
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

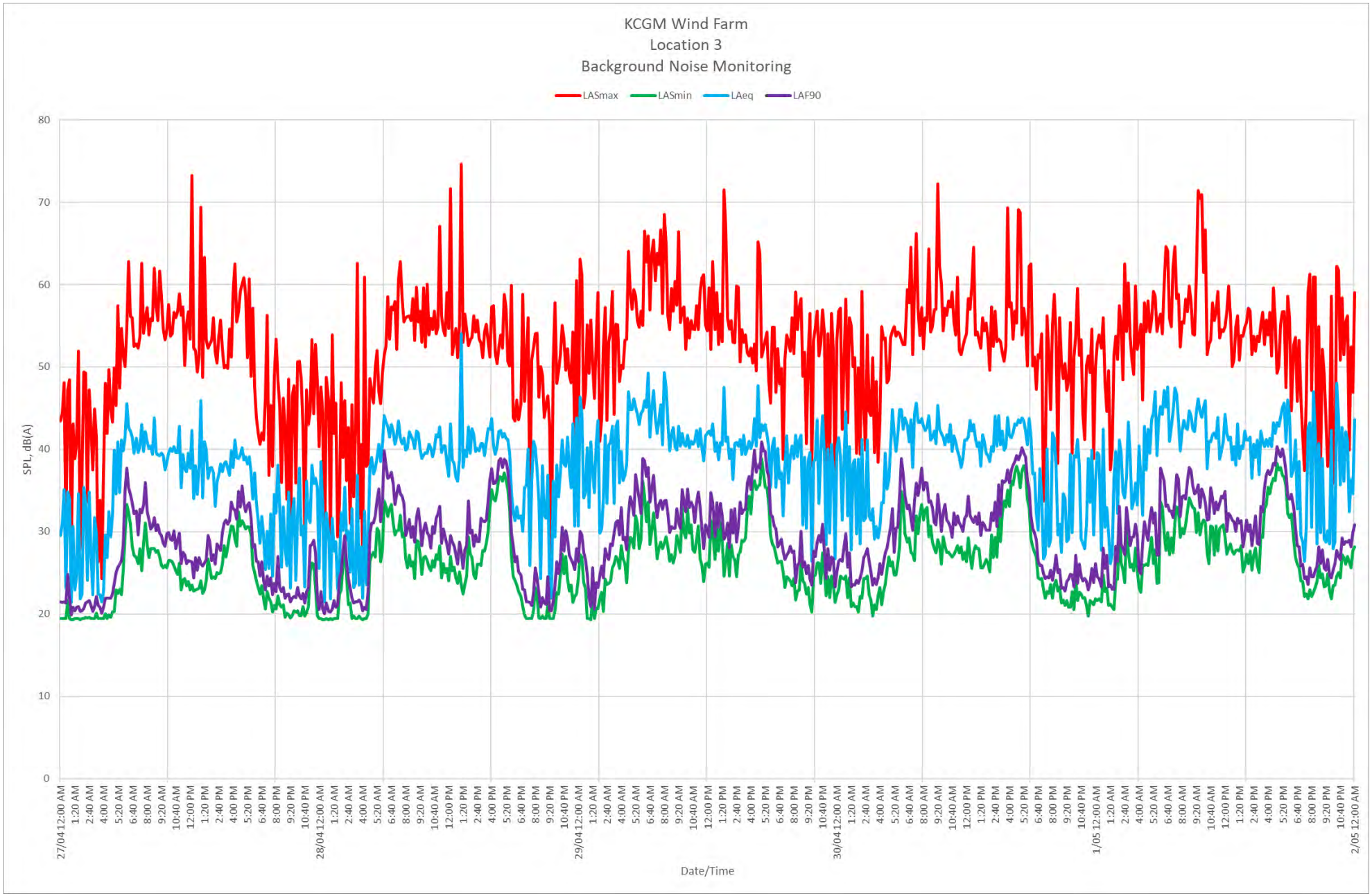

KCGM Wind Farm
Location 3
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time

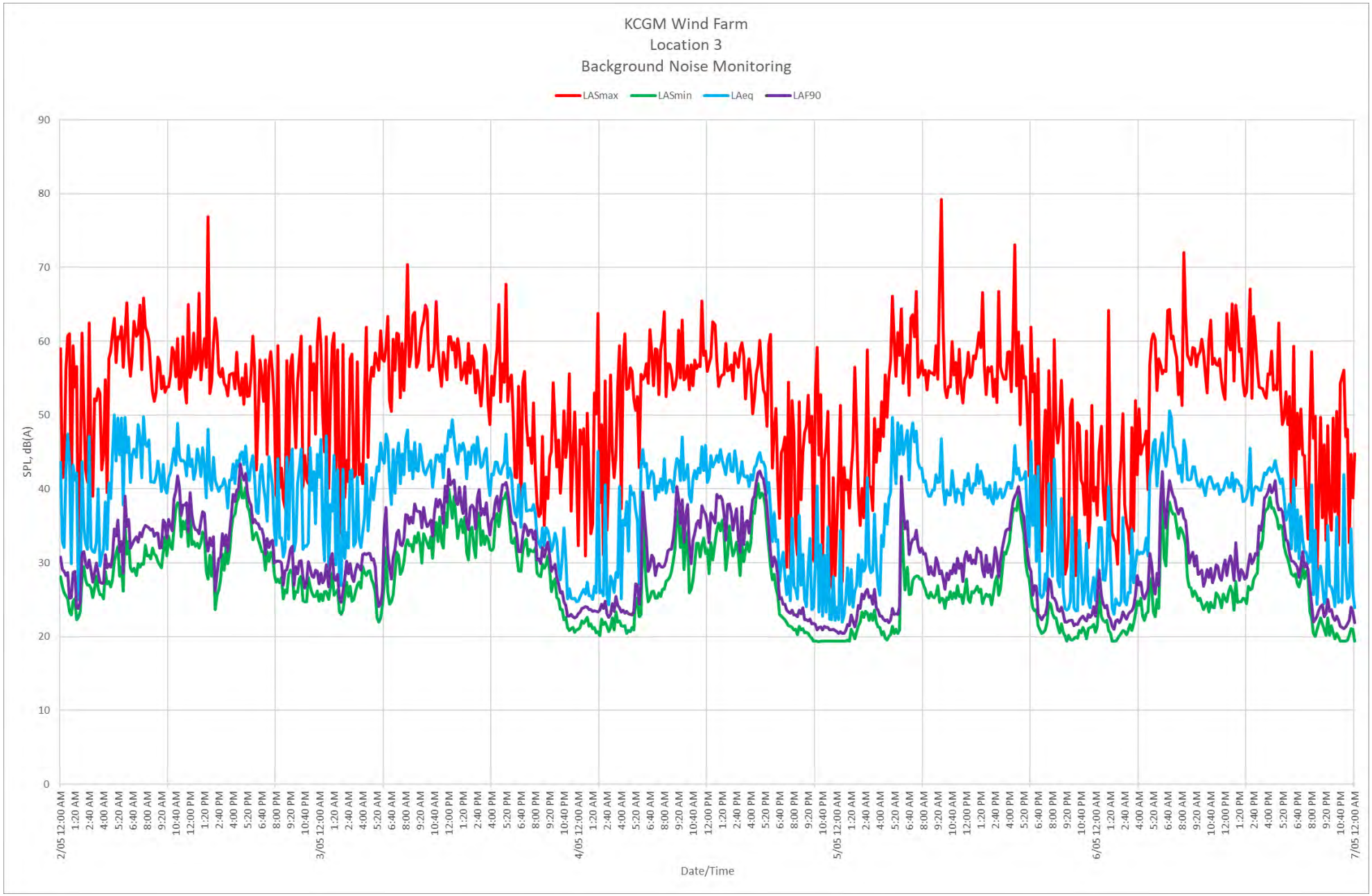

KCGM Wind Farm
Location 3
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time

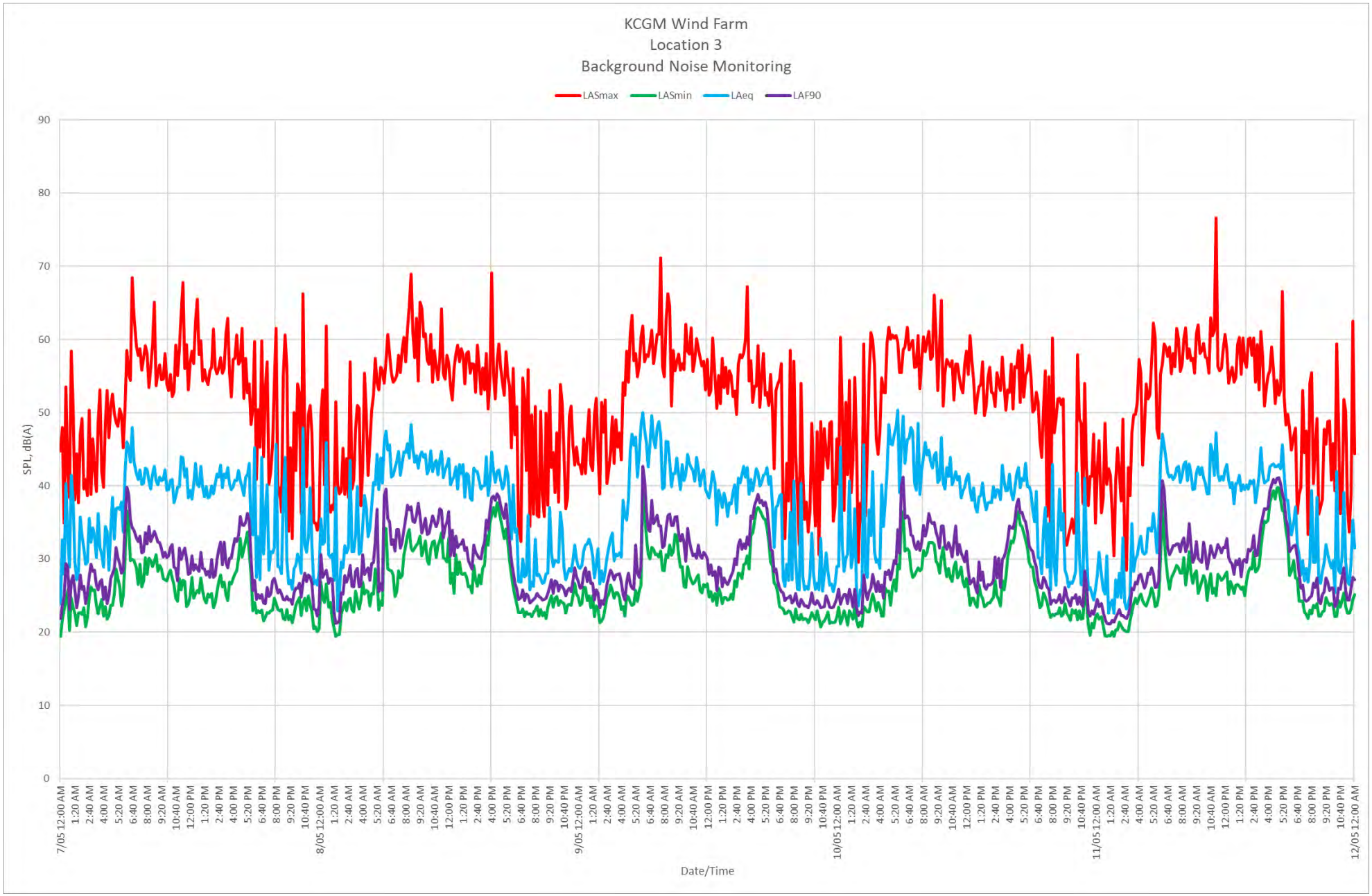

KCGM Wind Farm
Location 3
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
120
100
80
60
40
20
0
14/04 12:00 AM
15/04 12:00 AM
16/04 12:00 AM
17/04 12:00 AM
18/04 12:00 AM
19/04 12:00 AM
Date/Time

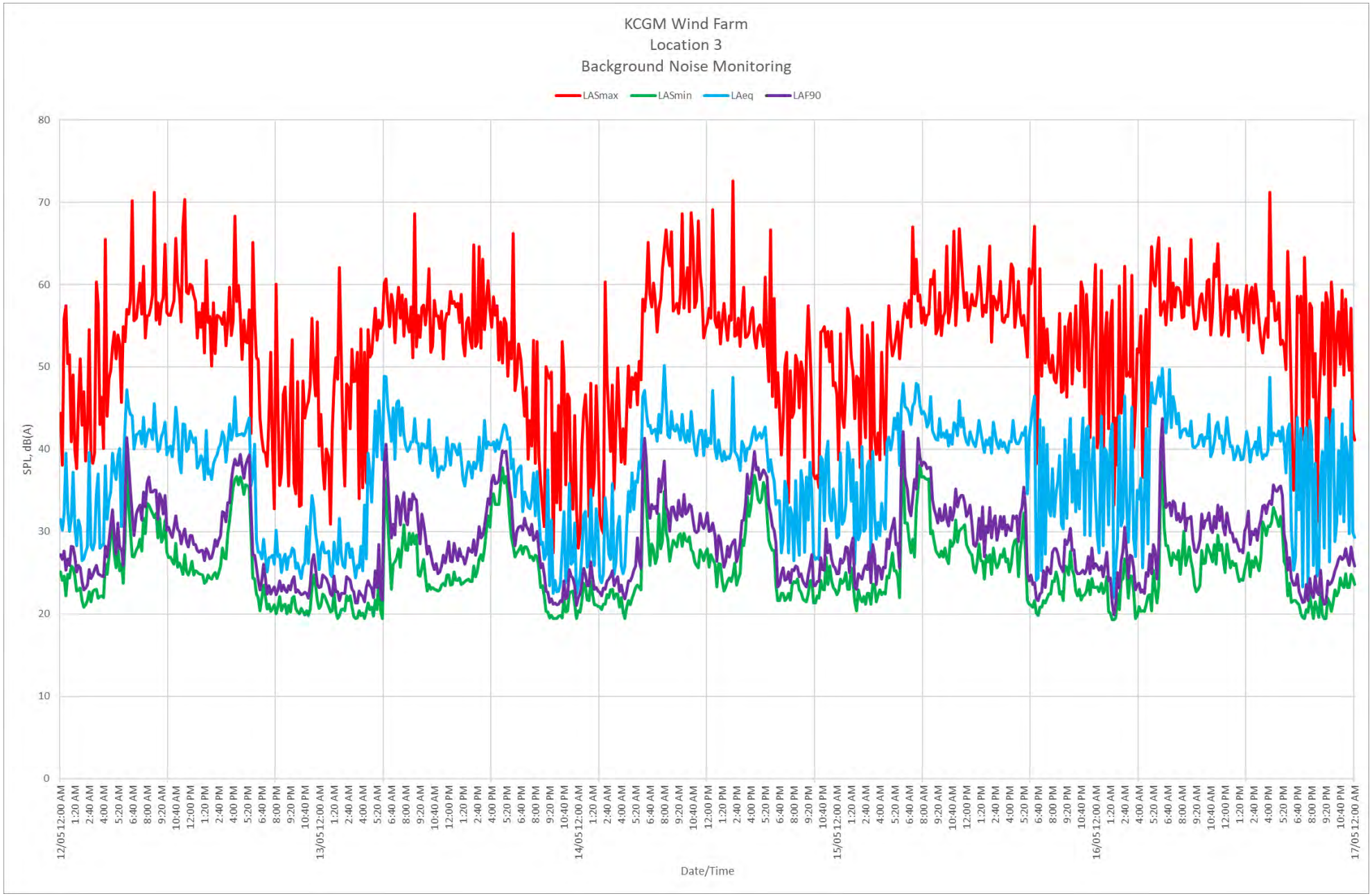

KCGM Wind Farm
Location 3
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time

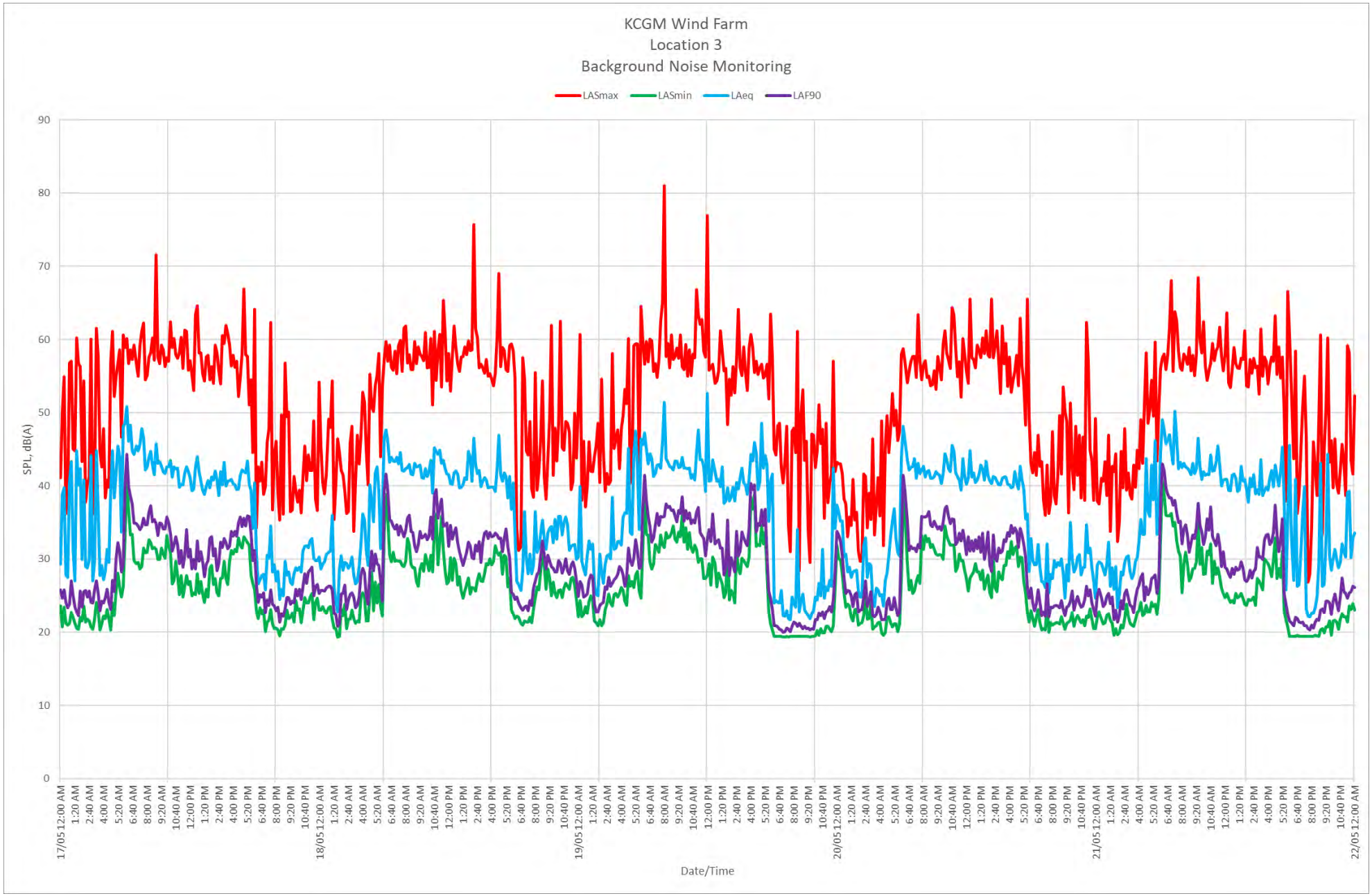

KCGM Wind Farm
Location 3
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time

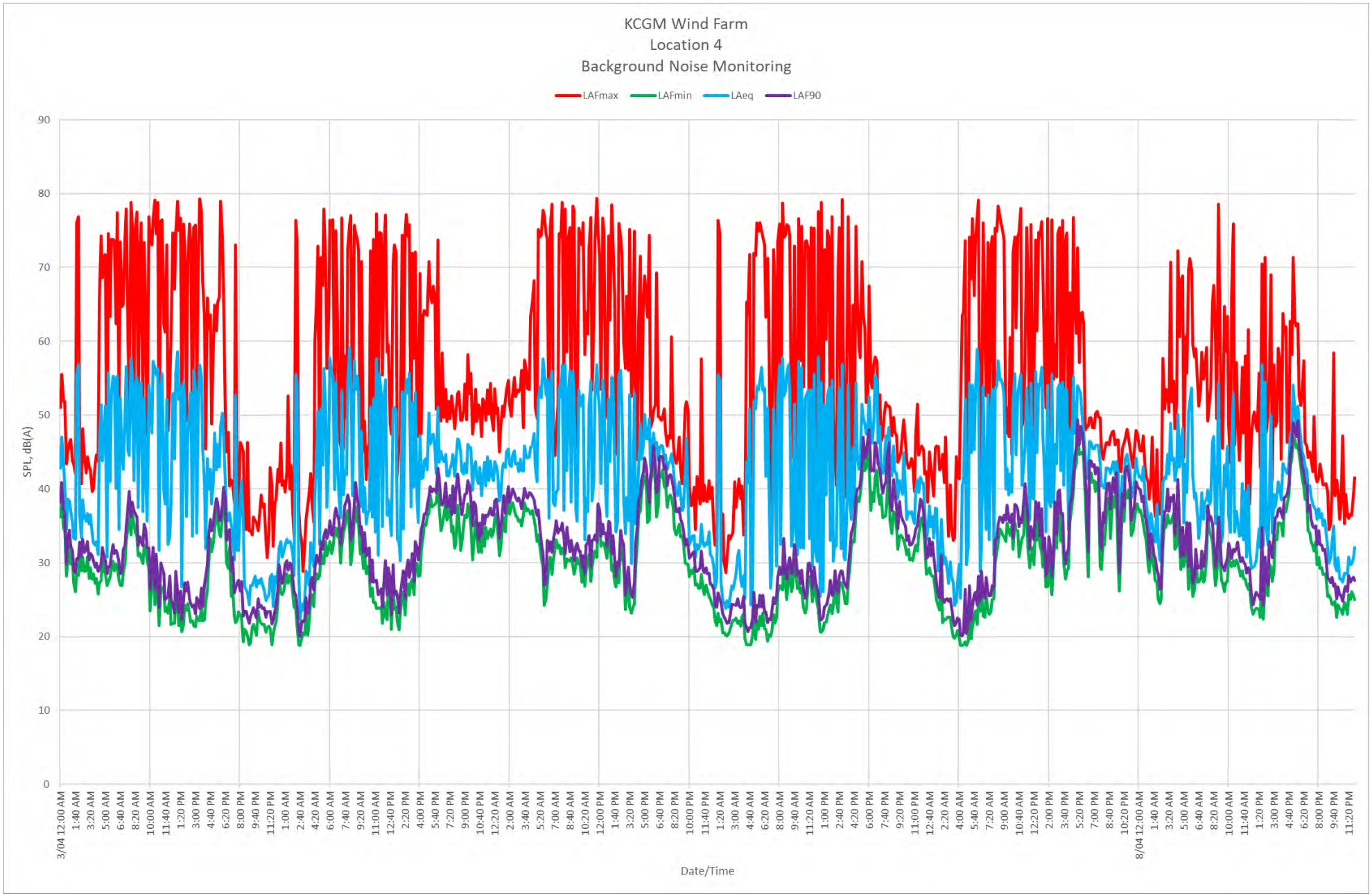

KCGM Wind Farm
Location 3
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time

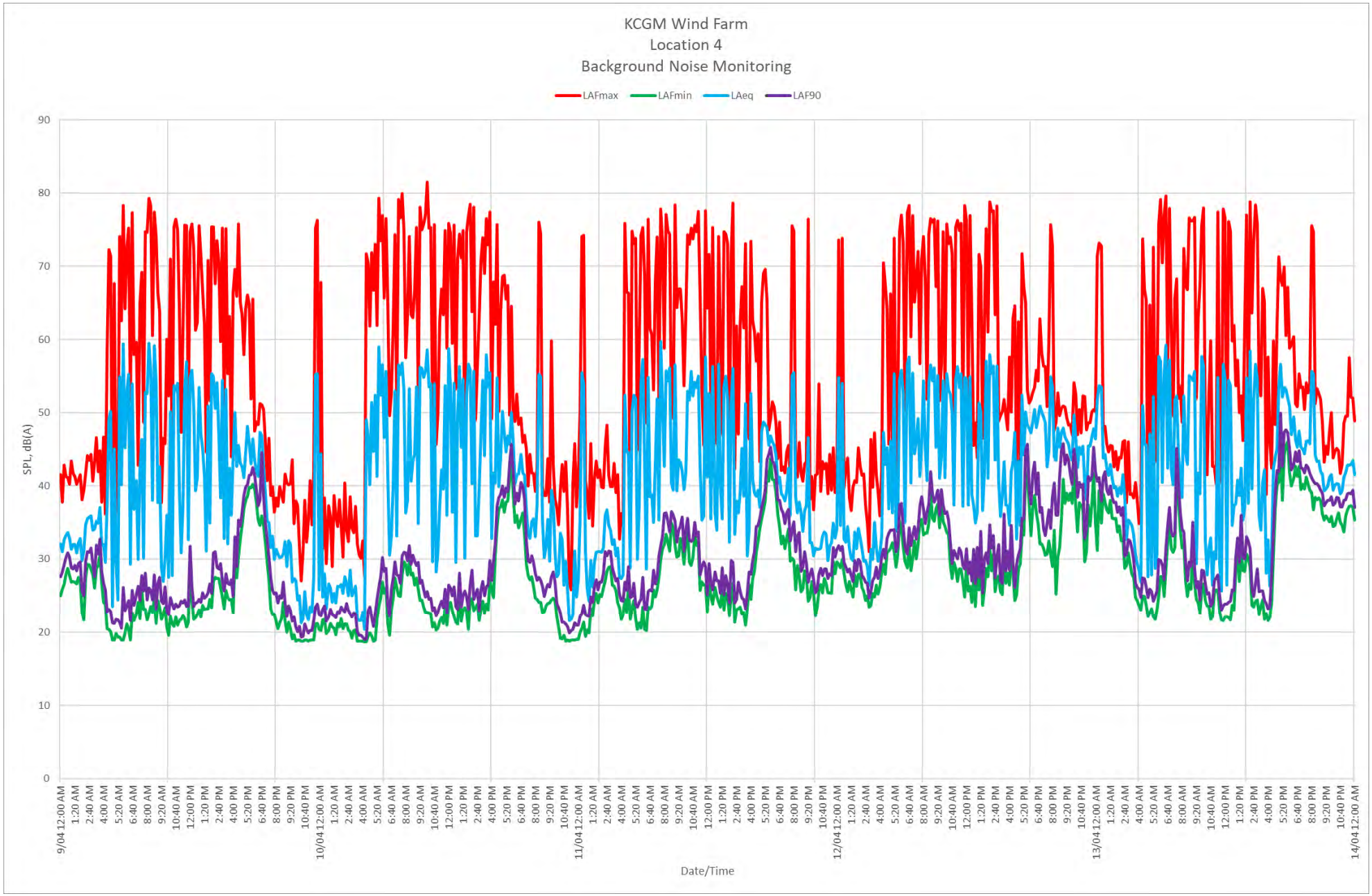

KCGM Wind Farm
Location 3
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time

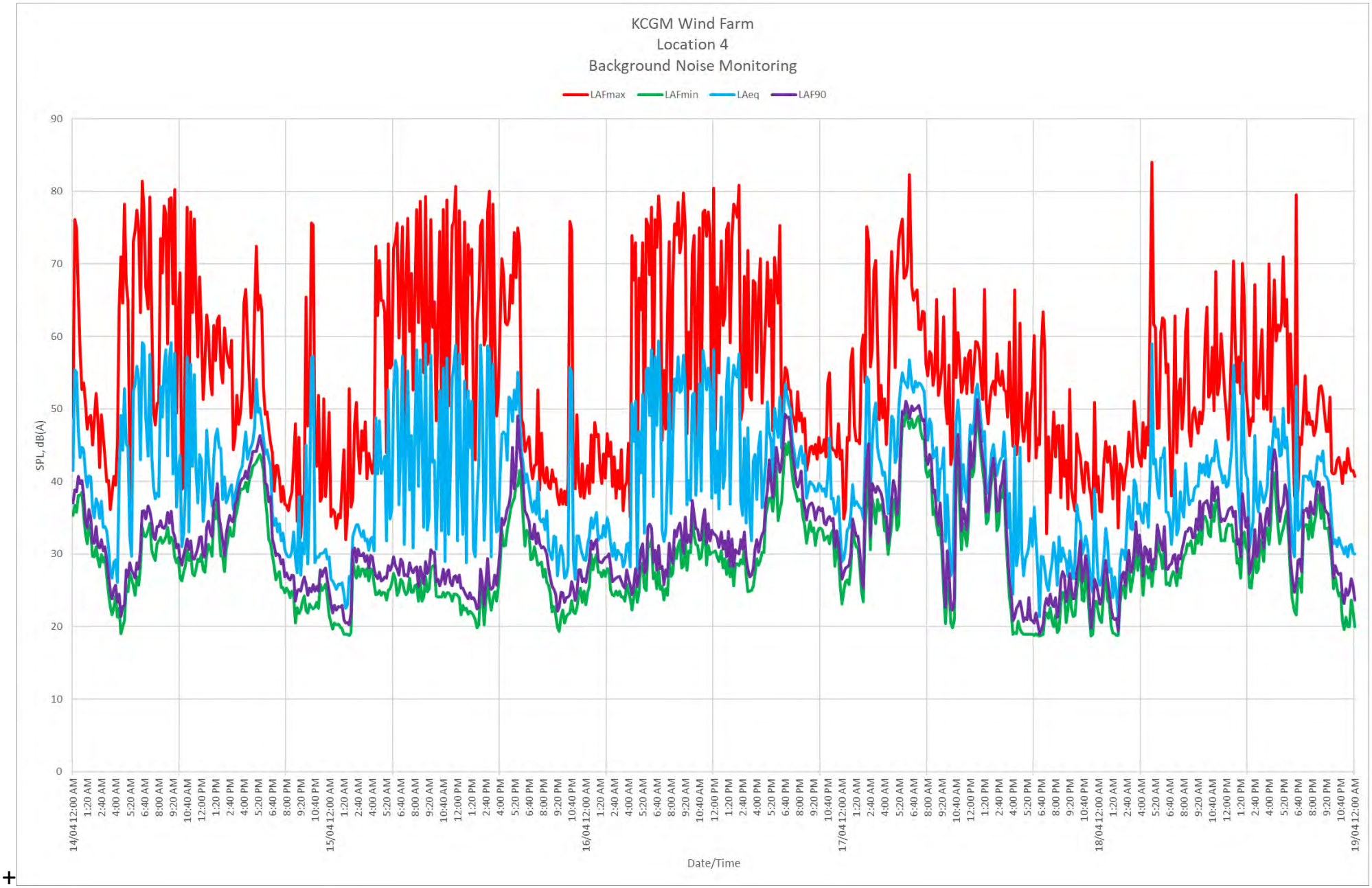

KCGM Wind Farm
Location 3
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time

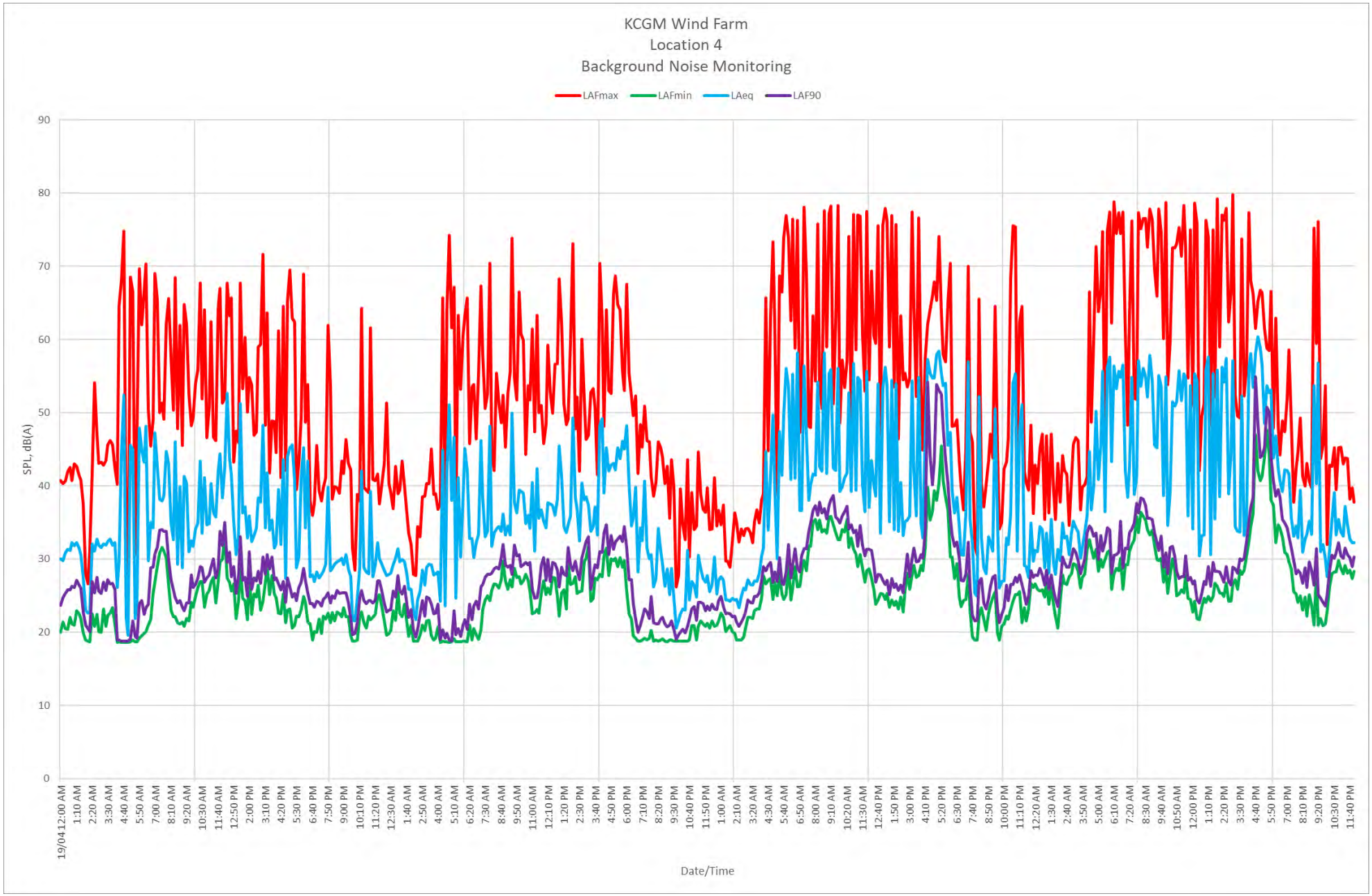

KCGM Wind Farm
Location 3
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time

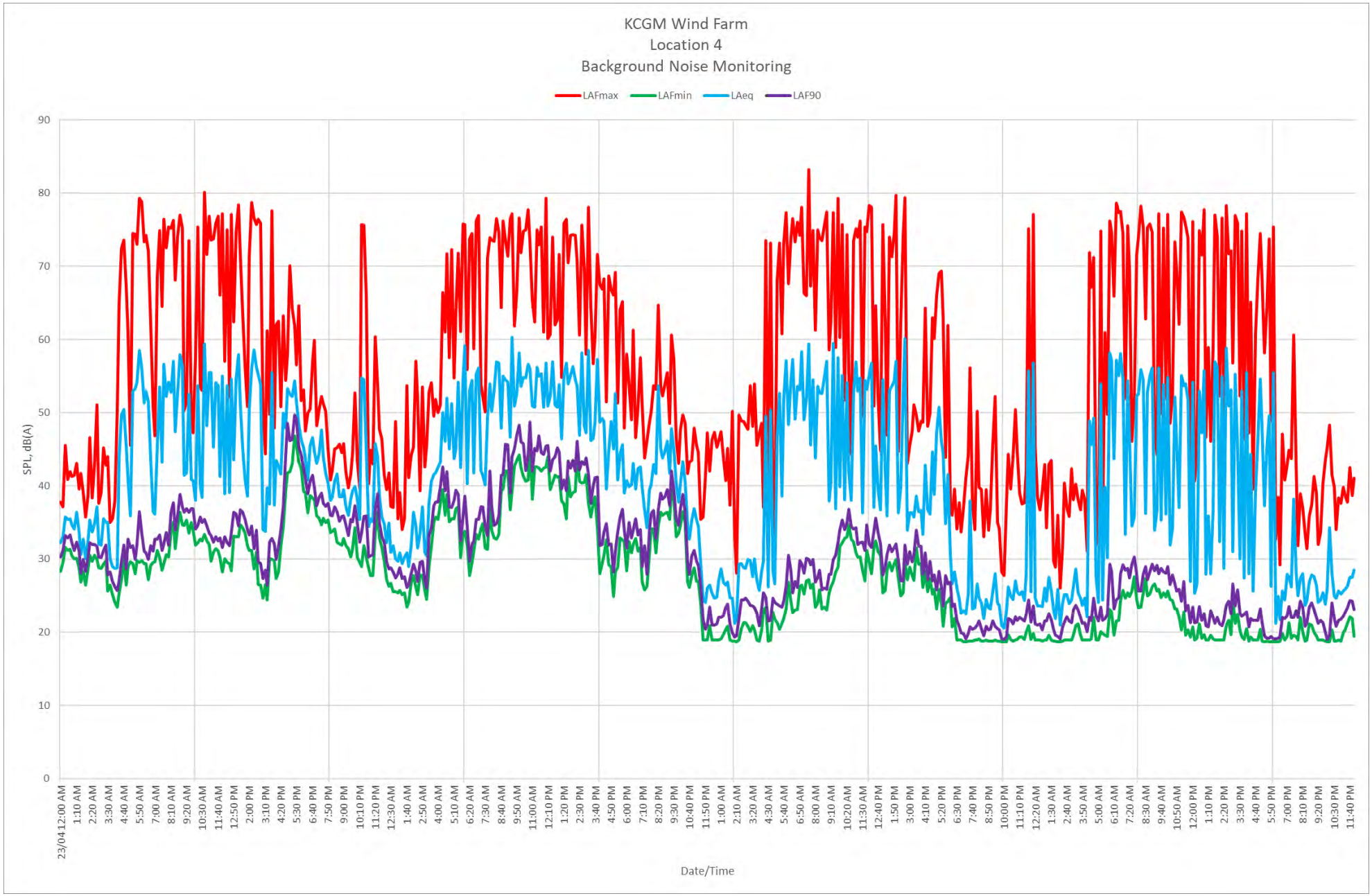

KCGM Wind Farm
Location 3
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time

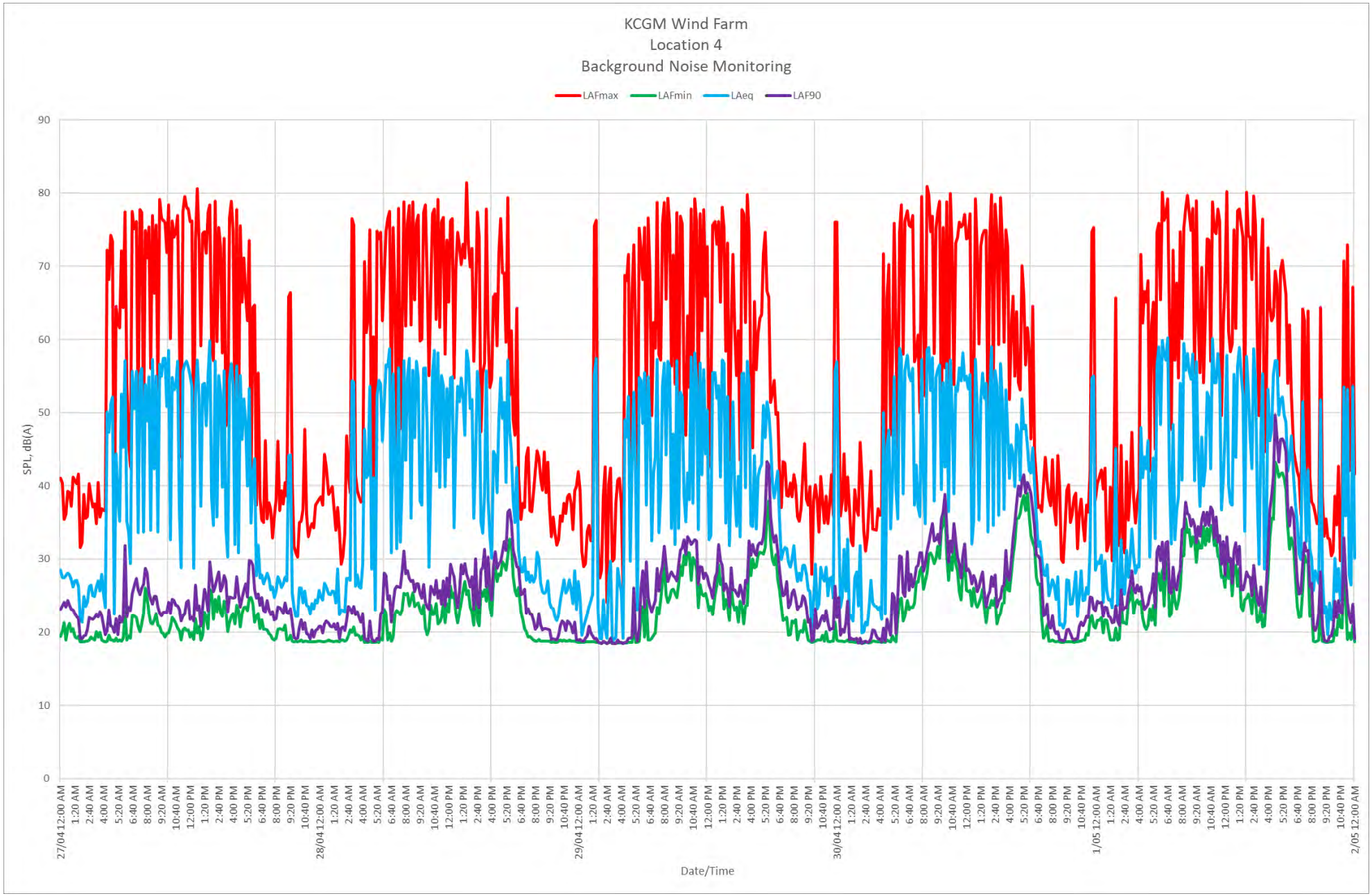

KCGM Wind Farm
Location 4
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

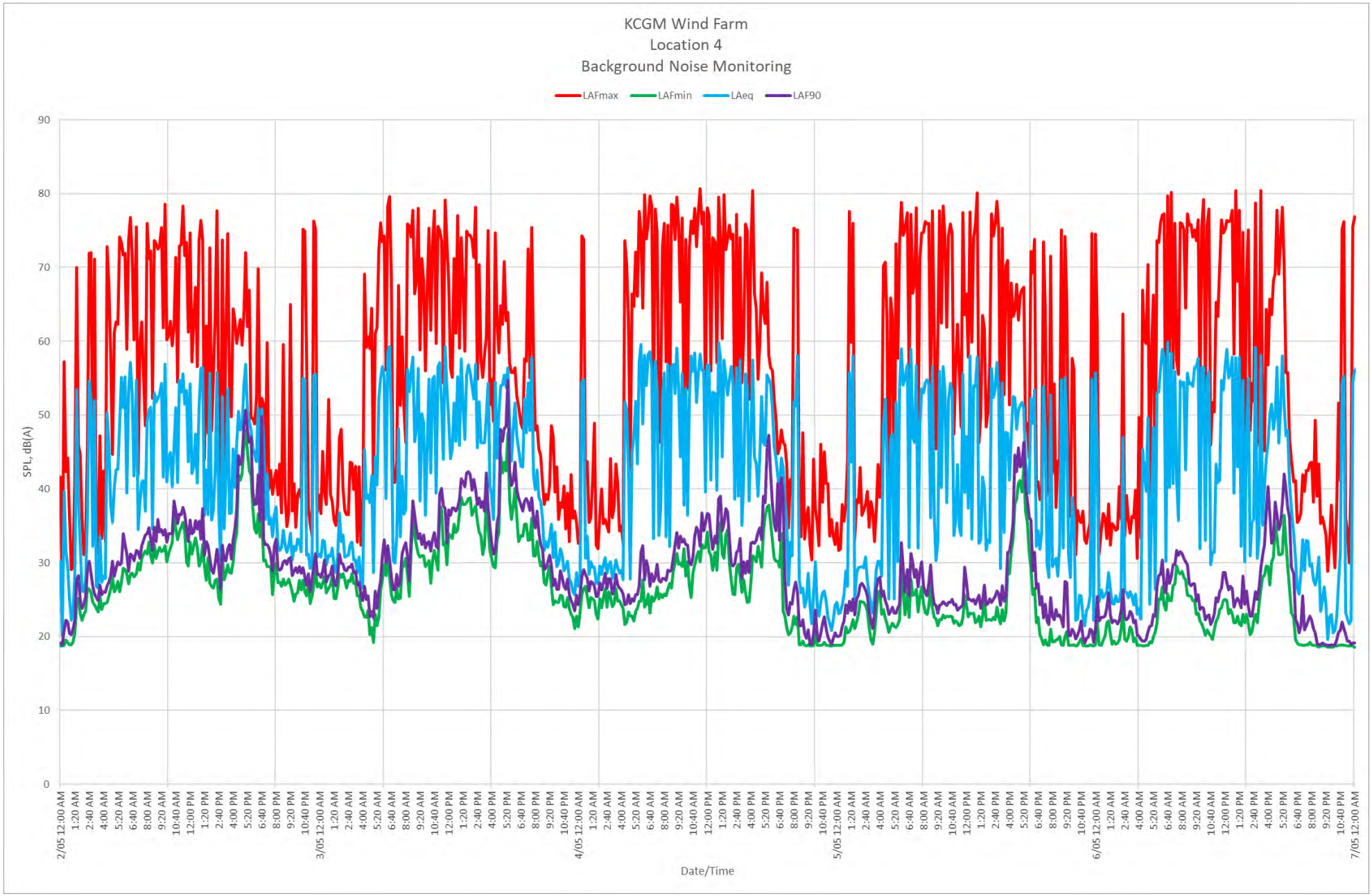

KCGM Wind Farm
Location 4
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time

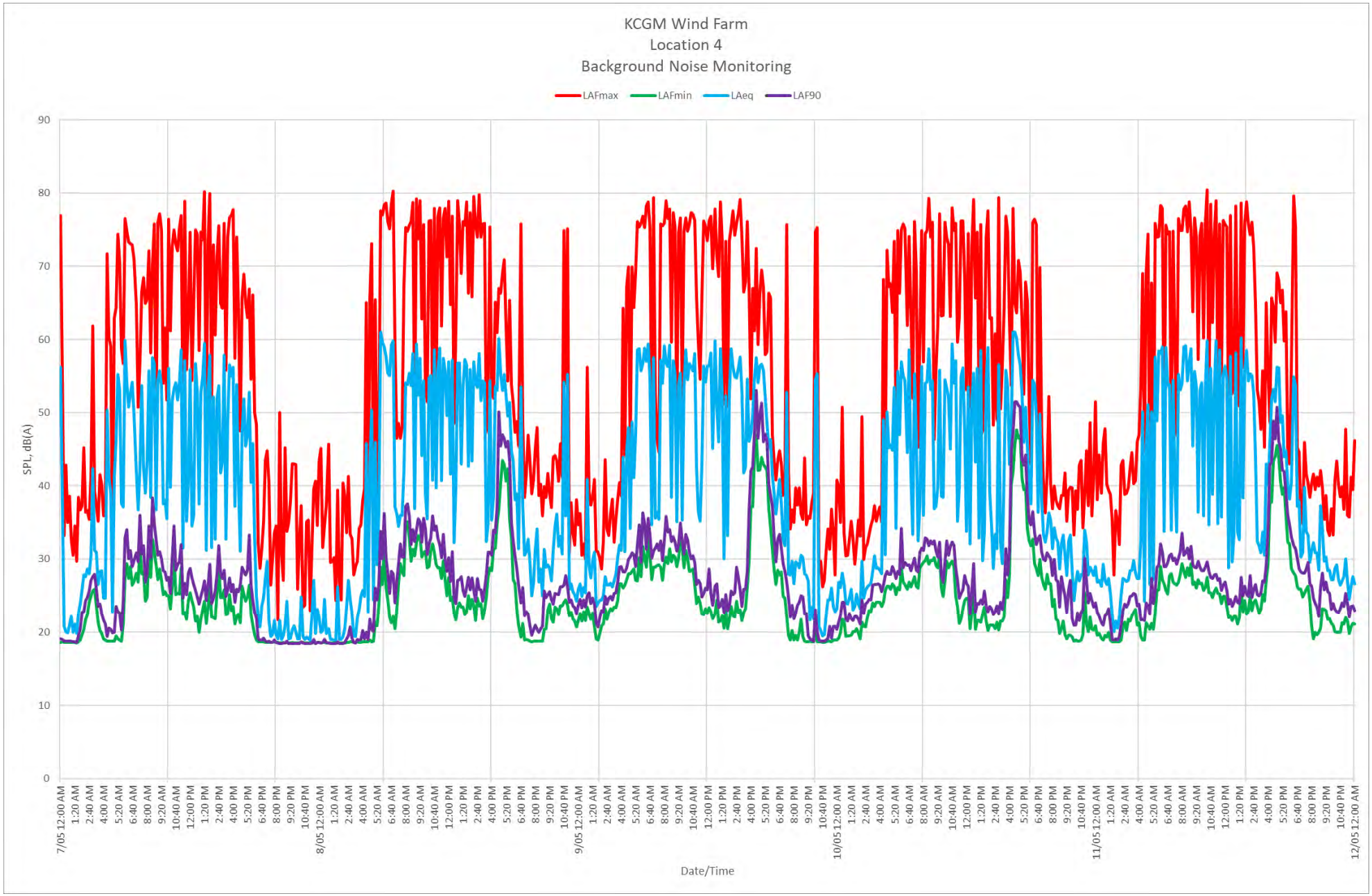

KCGM Wind Farm
Location 4
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time


KCGM Wind Farm
Location 4
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time


KCGM Wind Farm
Location 4
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time


KCGM Wind Farm
Location 4
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time


KCGM Wind Farm
Location 4
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
90
80
70
60
50
40
30
20
10
0
2/05 12:00 AM
3/05 12:00 AM
4/05 12:00 AM
5/05 12:00 AM
6/05 12:00 AM
7/05 12:00 AM
Date/Time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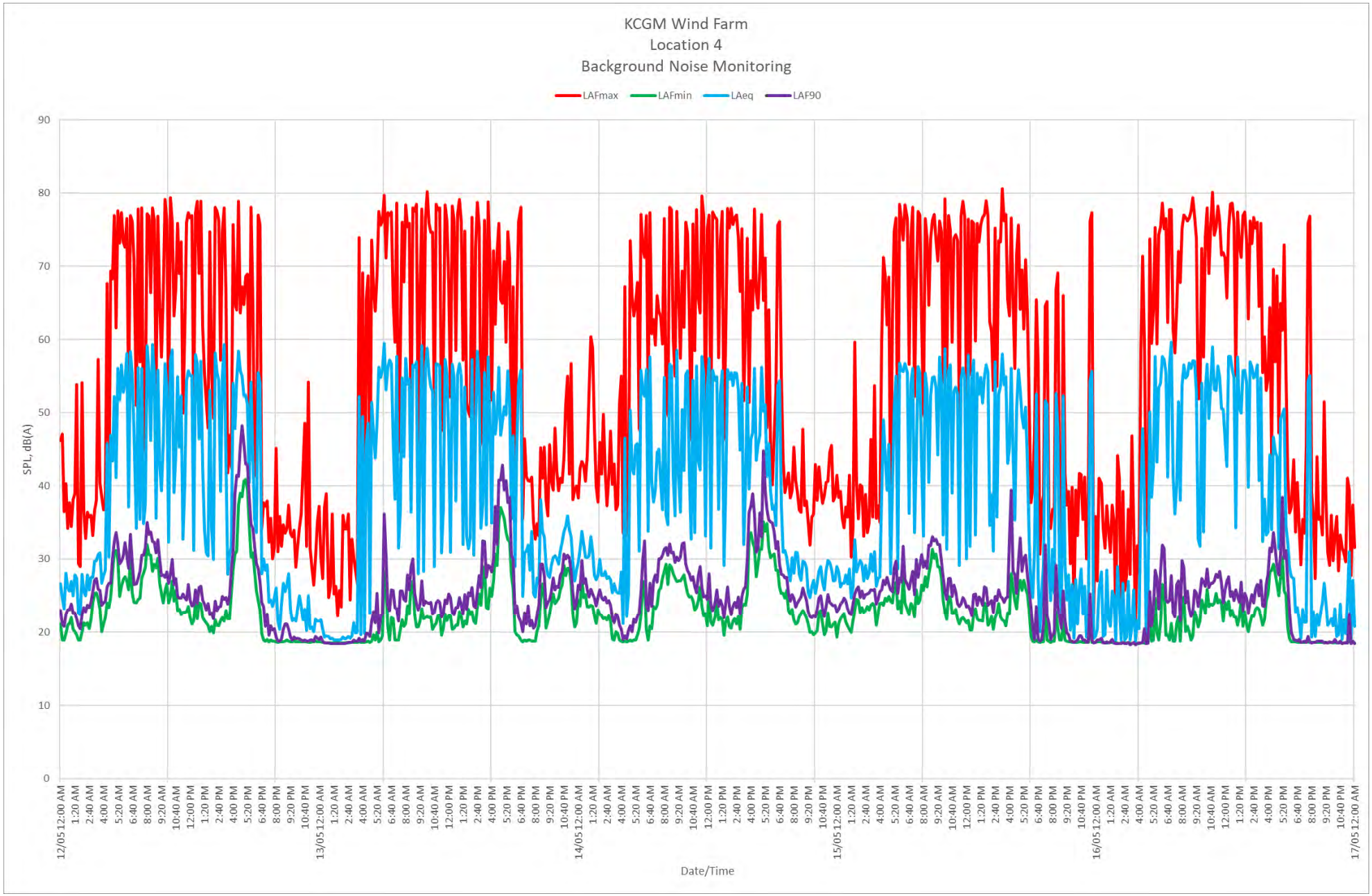
Location 4
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time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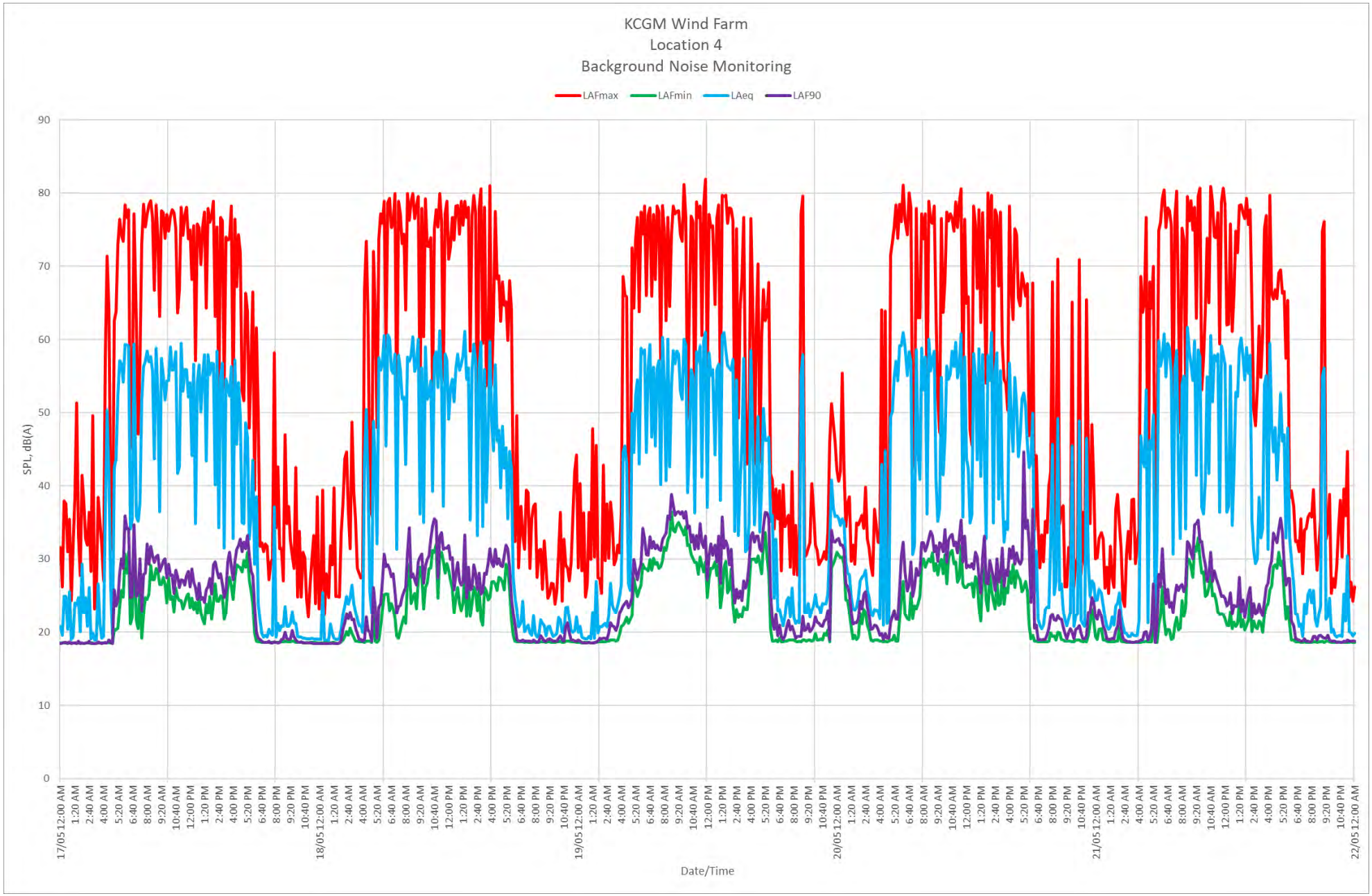
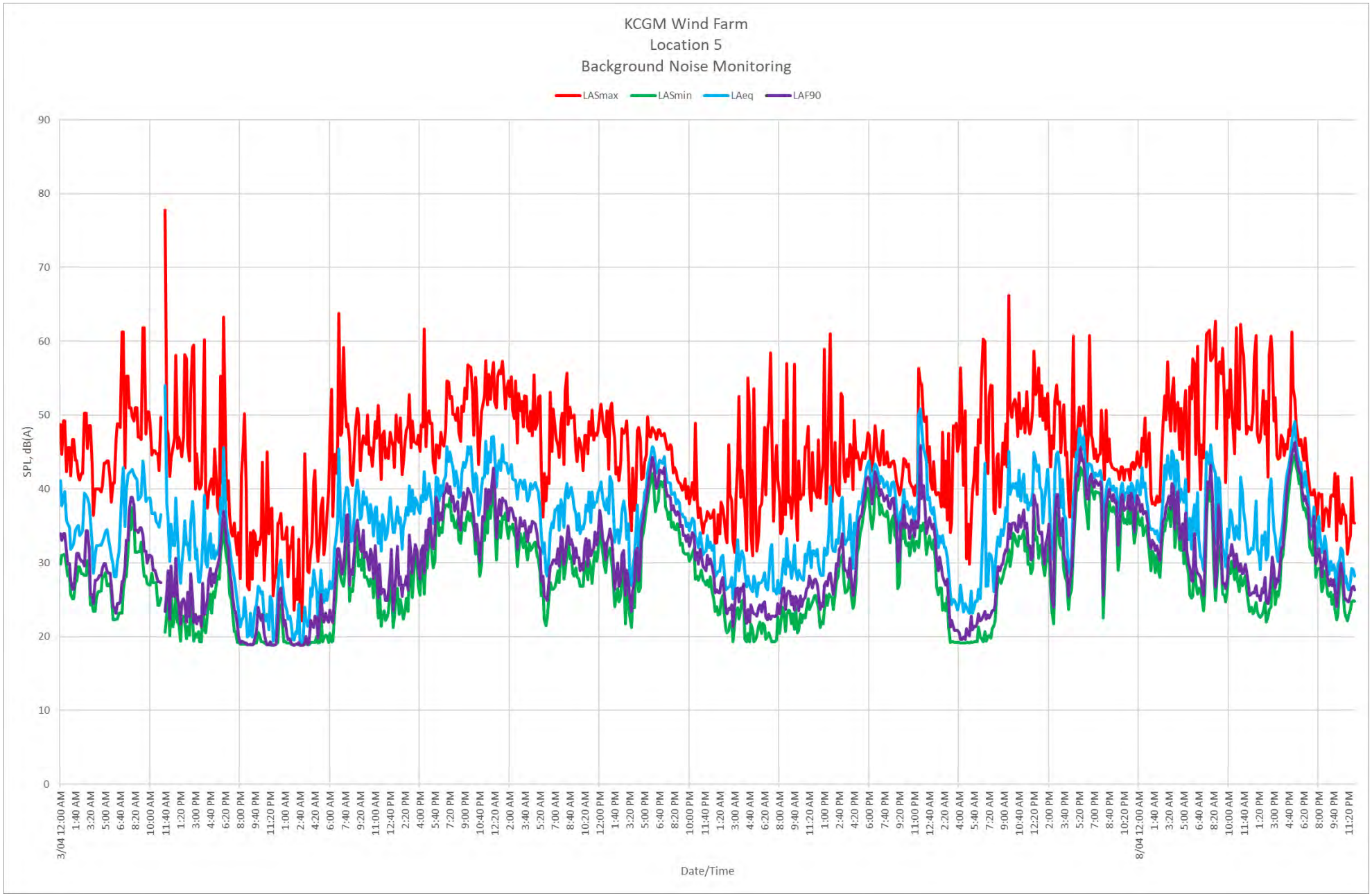
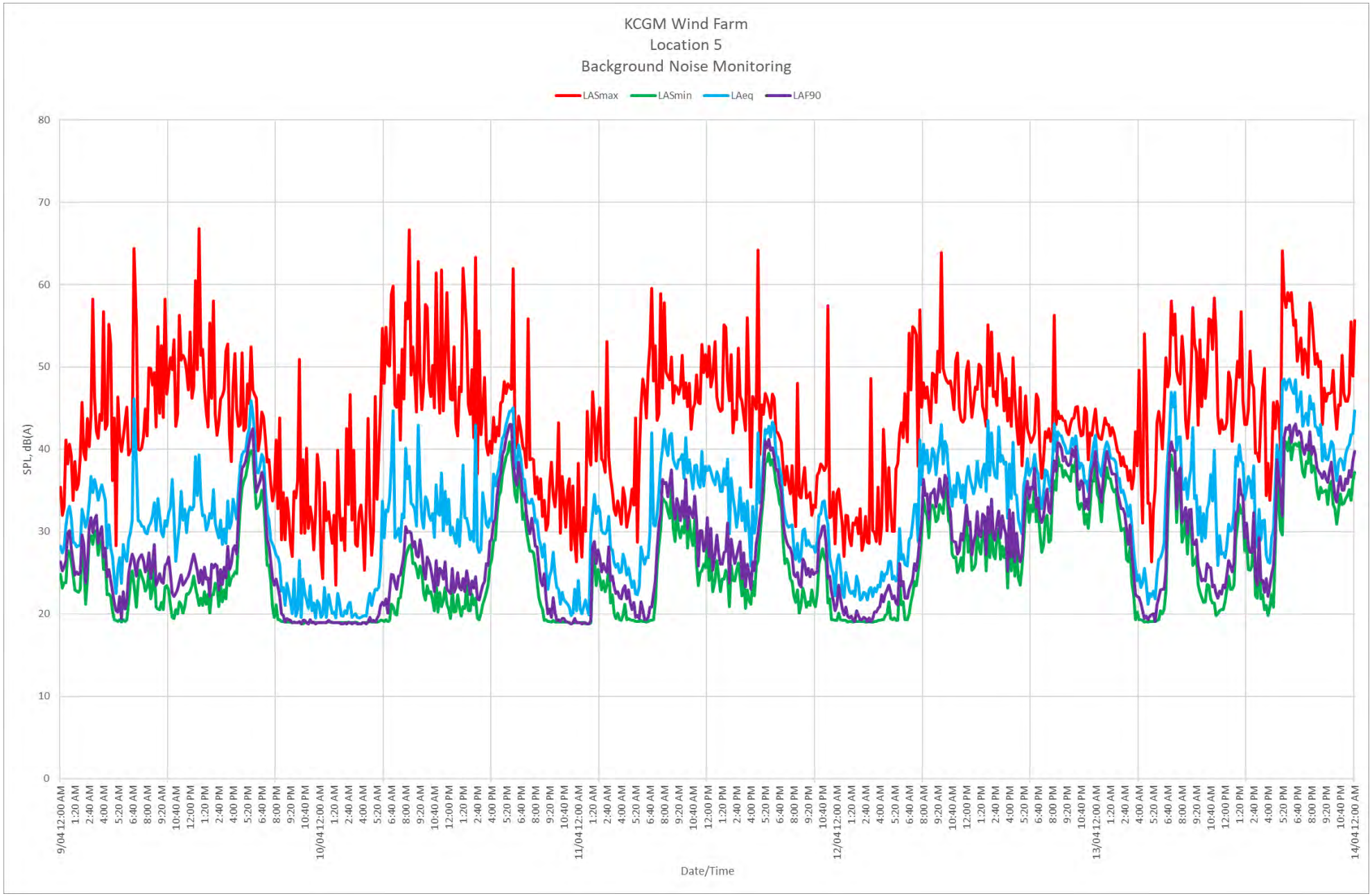
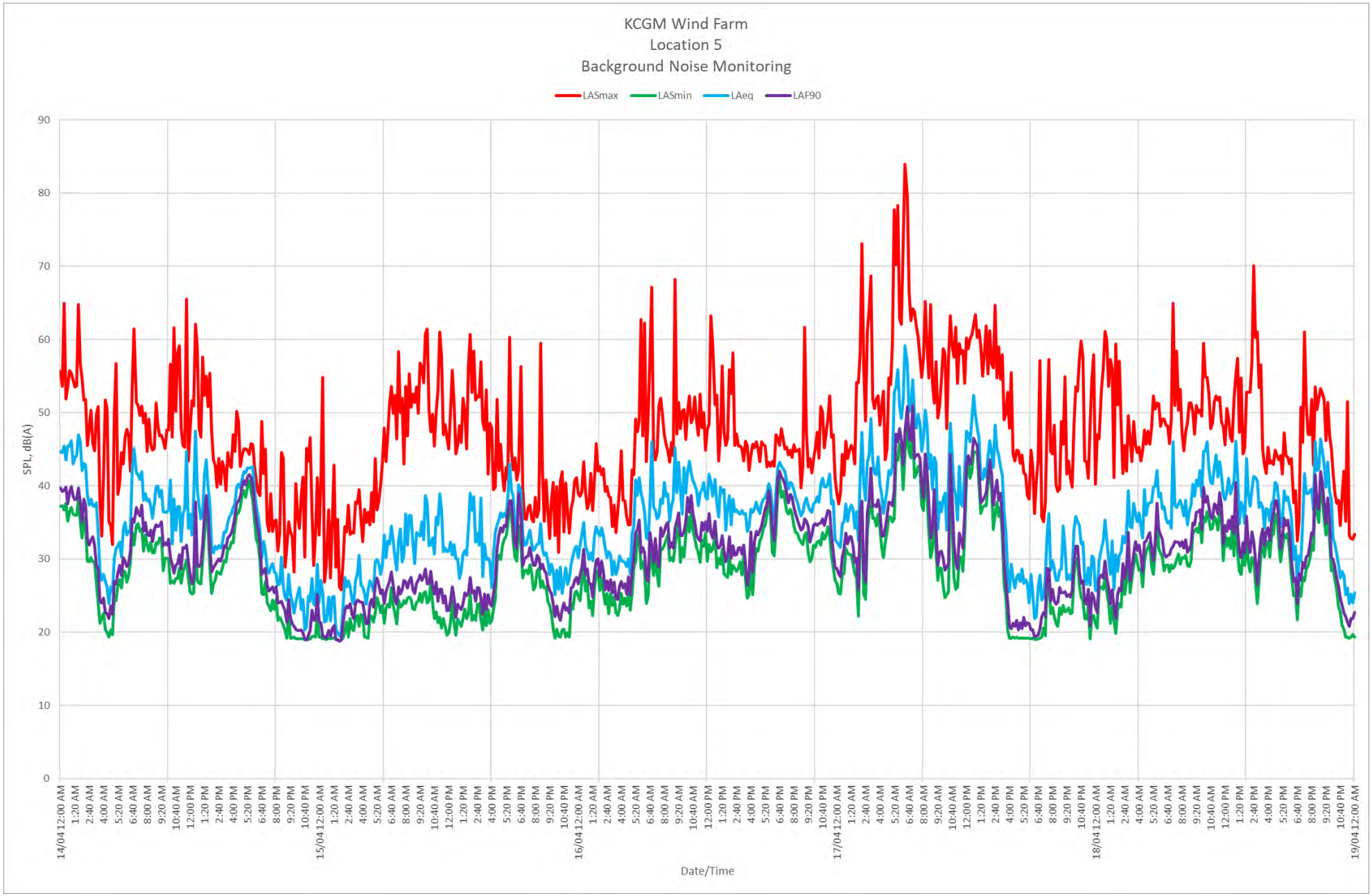
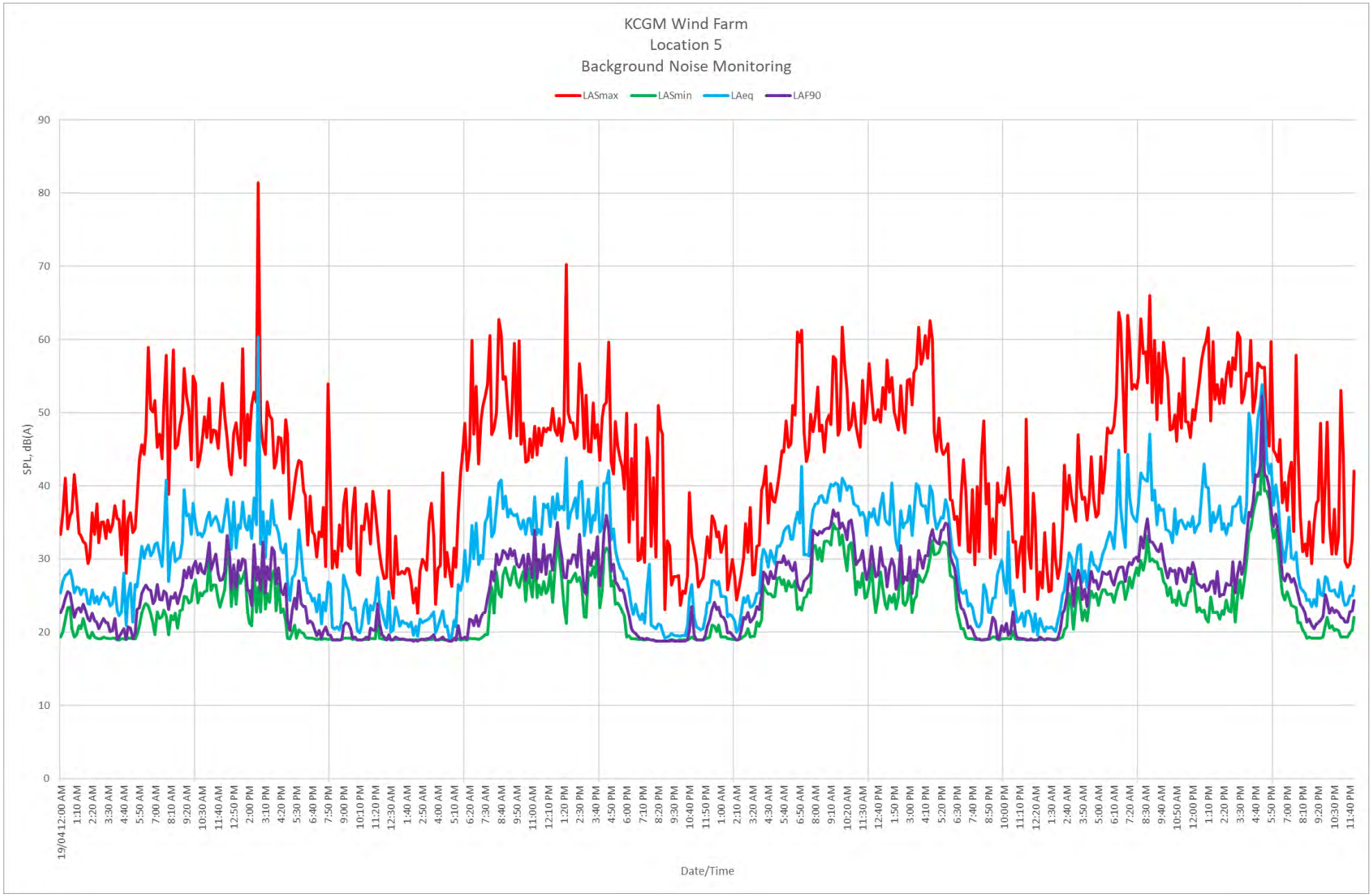
Location 4
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time


KCGM Wind Farm
Location 4
Background Noise Monitoring
LAFmax
LAFmin
LAeq
LAF90
SPL, dB(A)
Date/Time


KCGM Wind Farm
Location 5
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time


KCGM Wind Farm
Location 5
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time


KCGM Wind Farm
Location 5
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time


KCGM Wind Farm
Location 5
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
90
80
70
60
50
40
30
20
10
0
19/04 12:00 AM
1:10 AM
2:20 AM
3:30 AM
4:40 AM
5:50 AM
7:00 AM
8:10 AM
9:20 AM
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11:40 AM
12:50 PM
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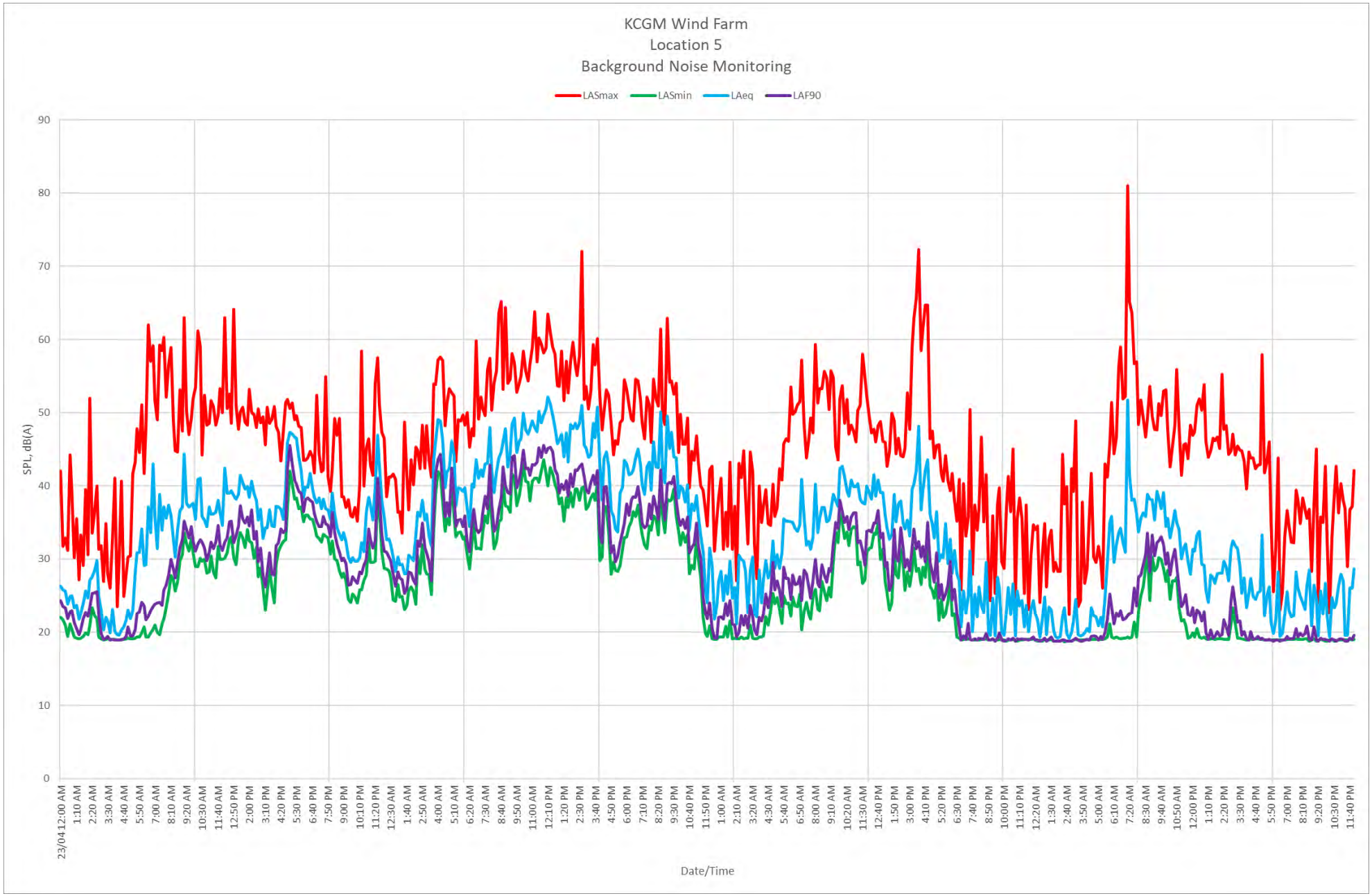
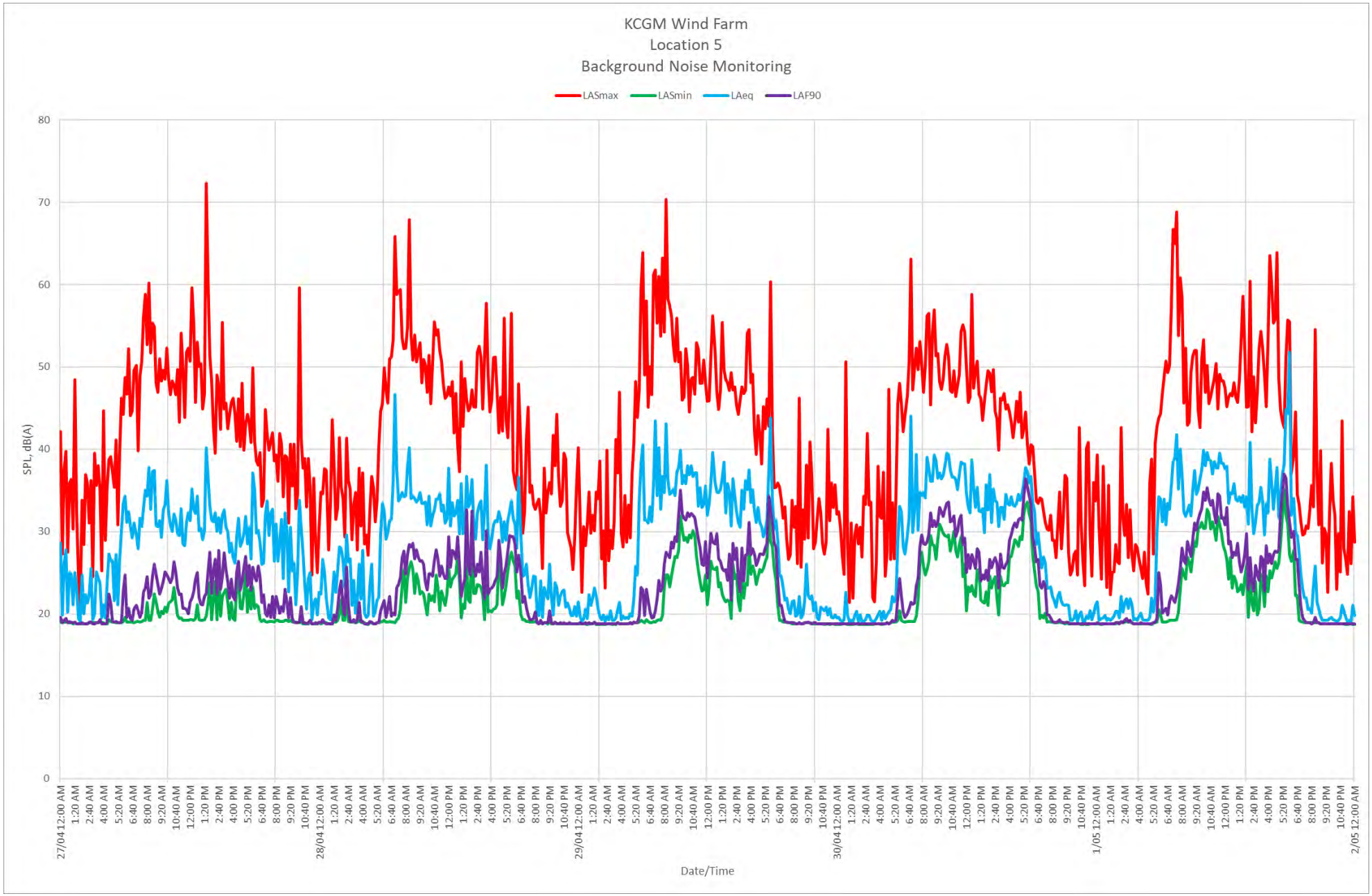
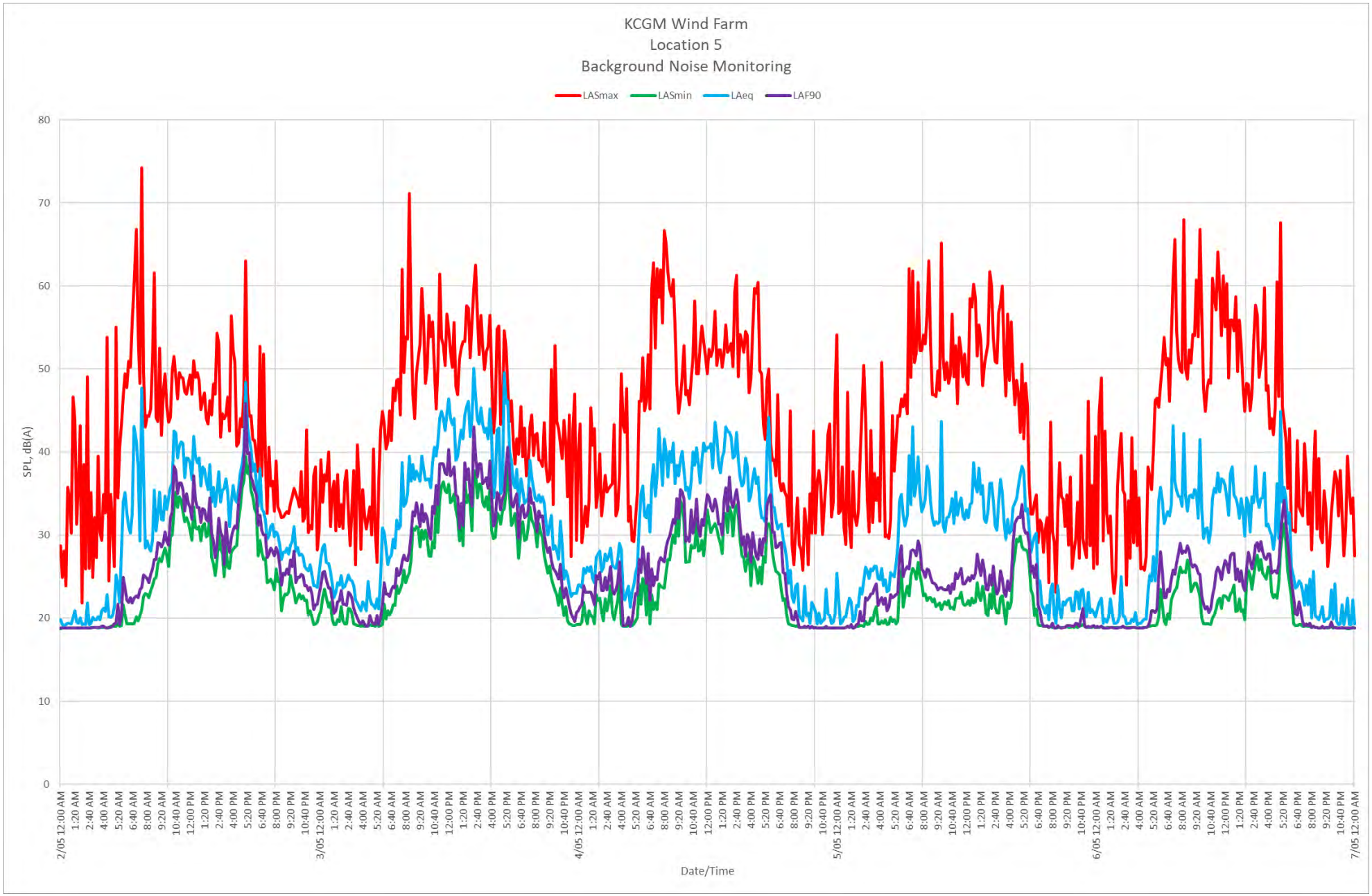
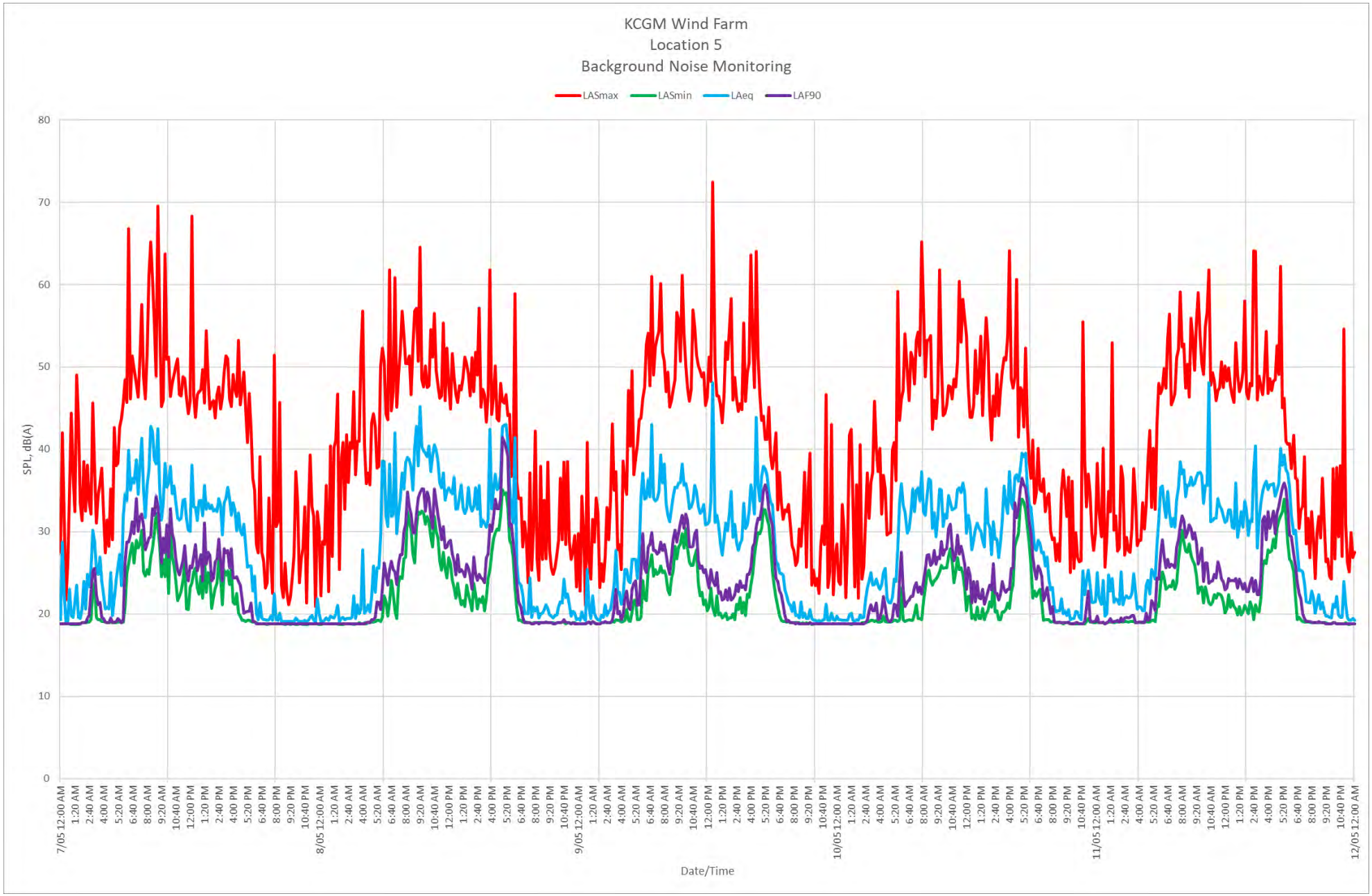
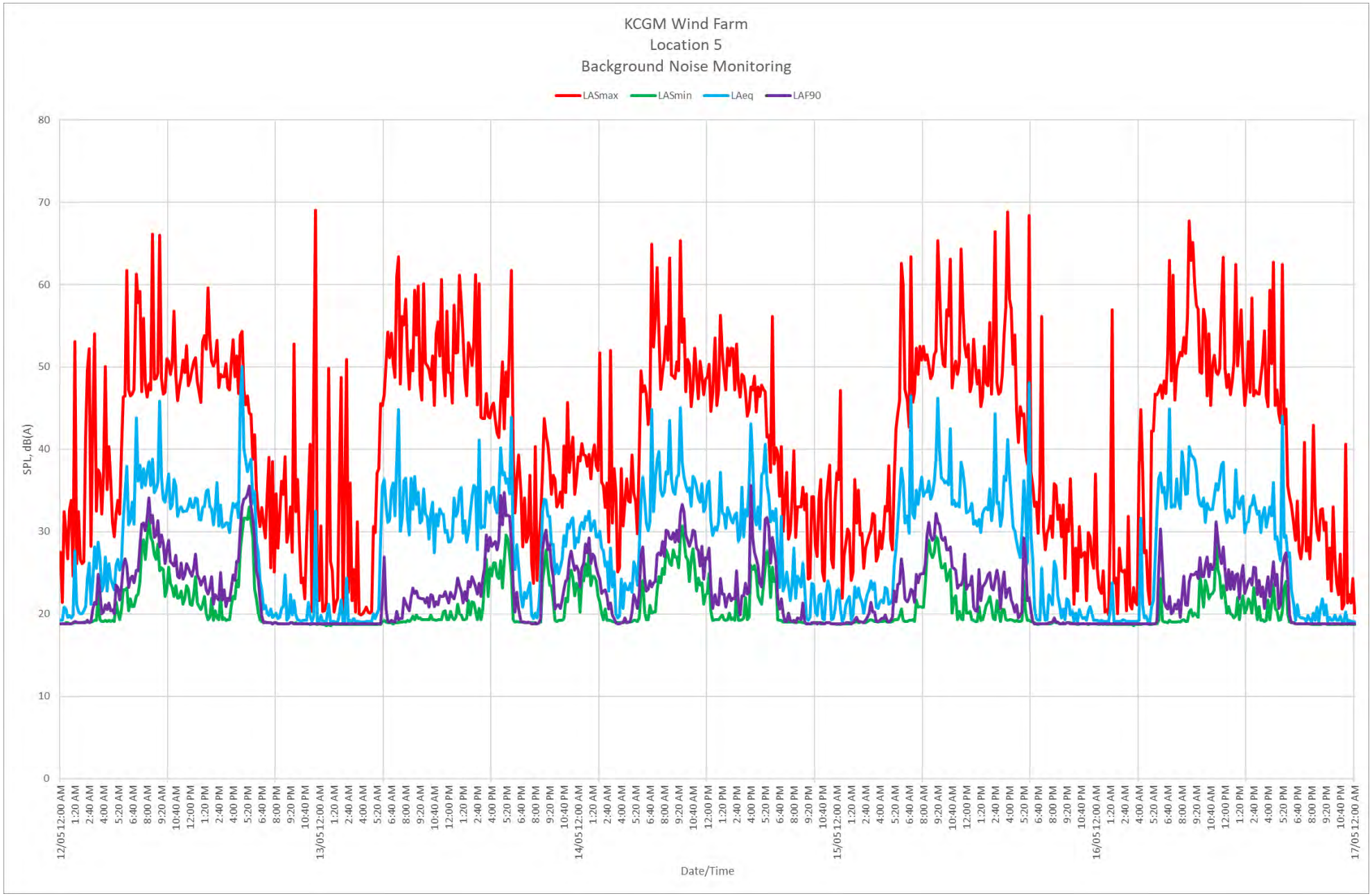
9:20 PM
10:30 PM
11:40 PM
Date/Time

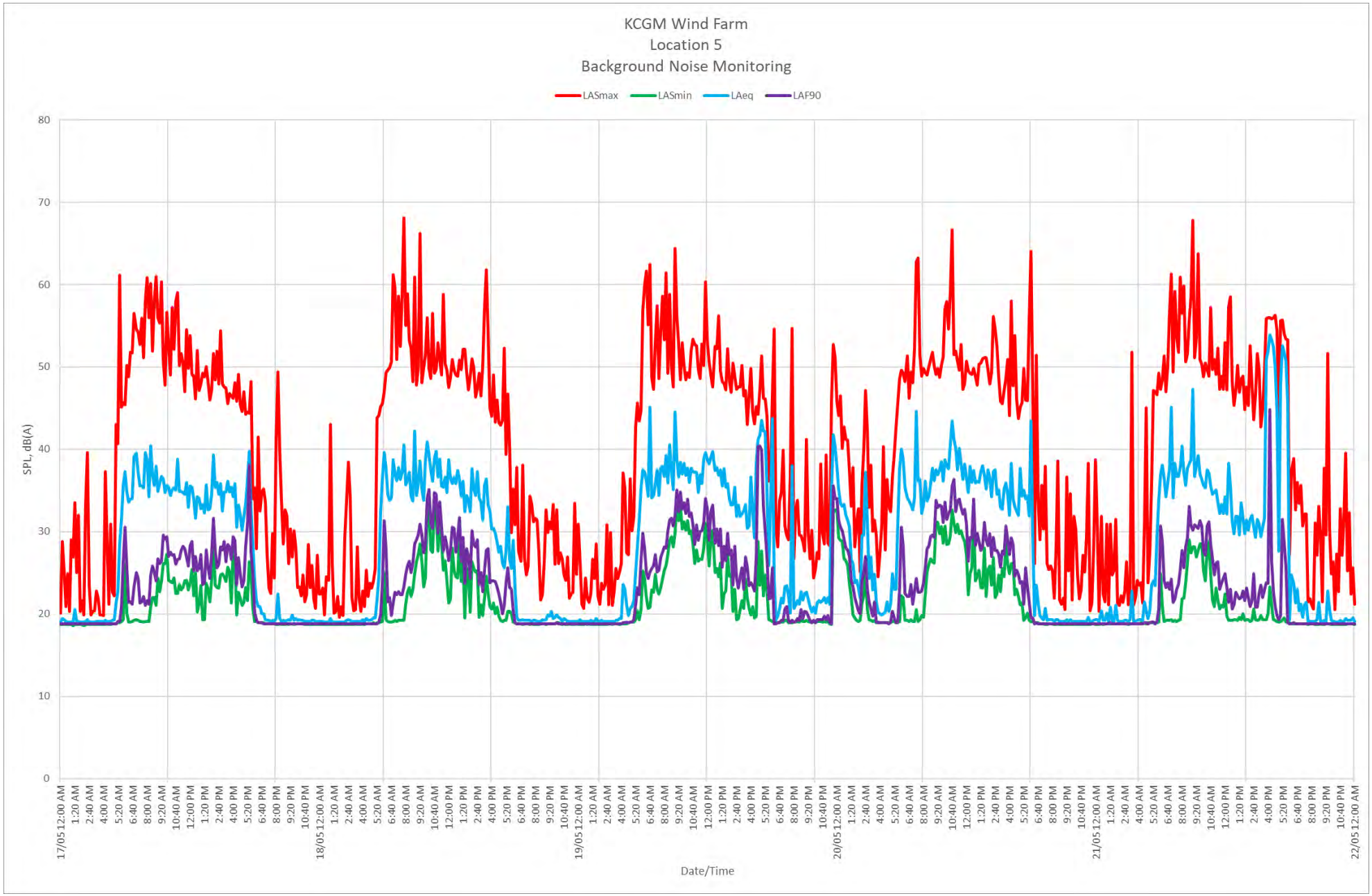

KCGM Wind Farm
Location 5
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time


KCGM Wind Farm
Location 5
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time


KCGM Wind Farm
Location 5
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time


KCGM Wind Farm
Location 5
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time


KCGM Wind Farm
Location 5
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time


KCGM Wind Farm
Location 5
Background Noise Monitoring
LASmax
LASmin
LAeq
LAF90
SPL, dB(A)
Date/Time

APPENDIX E

CALIBRATION CERTIFICATES

CERTIFICATE OF CALIBRATION

CERTIFICATE NO: SLM38374

EQUIPMENT TESTED: Sound Level Meter

Manufacturer:	Svantek		
Type No:	SV307A	**Serial No:**	131846
Mic. Type:	ST30A_V3	**Serial No:**	143377
Pre-Amp. Type:	-	**Serial No:**	-
Filter Type:	1/3 Octave	**Test No:**	F038375

Owner: Herring Storer Acoustics
Suite 34, 11 Preston Street
Como, WA 6152

Tests Performed: IEC 61672-3:2013 & IEC 61260-3:2016

Comments: All Test passed for Class 1. (See overleaf for details)

CONDITIONS OF TEST:

Ambient Pressure	998	hPa ±1 hPa	**Date of Receipt :**	07/12/2023
Temperature	25	°C ±1° C	**Date of Calibration :**	22/01/2024
Relative Humidity	37	% ±5%	**Date of Issue :**	22/01/2024

Acu-Vib Test Procedure: AVP10 (SLM) & AVP06 (Filters)

CHECKED BY: .....

AUTHORISED SIGNATURE: .....
Hein Soe

Accredited for compliance with ISO/IEC 17025 - Calibration
Results of the tests, calibration and/or measurements included in this document are traceable to SI units through reference equipment that has been calibrated by the Australian National Measurement Institute or other NATA accredited laboratories demonstrating traceability.

This report applies only to the item identified in the report and may not be reproduced in part.

The uncertainties quoted are calculated in accordance with the methods of the ISO Guide to the Uncertainty of Measurement and quoted at a coverage factor of 2 with a confidence interval of approximately 95%.

Acu-Vib Electronics
ACOUSTICS AND VIBRATIONS
Head Office & Calibration Laboratory
Unit 14, 22 Hudson Avenue, Castle Hill NSW 2154
(02) 9680 8133
www.acu-vib.com.au

NATA
WORLD RECOGNISED ACCREDITATION
Accredited Laboratory No. 9262
Acoustic and Vibration Measurements

The performance characteristics listed below were tested. The tests are based on the relevant clauses of IEC 61672-3:2013

Tests Performed:	*Clause*	*Result*
Absolute Calibration	10	Pass
Acoustical Frequency Weighting	12	Pass
Self-Generated Noise	11.1	Observed
Electrical Noise	11.2	Observed
Long Term Stability	15	Pass
Electrical Frequency Weightings	13	Pass
Frequency and Time Weightings	14	Pass
Reference Level Linearity	16	Pass
Range Level Linearity	17	Not Applicable
Toneburst	18	Pass
Peak C Sound Level	19	Pass
Overload Indicator	20	Pass
High Level Stability	21	Pass

Statement of Compliance: The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent organization responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 requirements of IEC61672-1:2013.

This Sound Level Meter included an Octave Filter Set. Tests were based on IEC 61260-3:2016 and were conducted to test the following performance characteristics:

Tests performed	*Clause*	*Result*
Test of relative attenuation at filter midband frequency	10	Pass
Linear operating range including range control if fitted	11	N/A
Test of lower limit of linear operating range	12	Pass
Measurement of relative attenuation (filter shape)	13	Pass

The filter submitted for testing successfully completed the tests listed above for the environmental conditions under which the tests were performed. If the filter type has successfully completed the pattern-evaluation tests of IEC 61260-2 then it can be stated that the filter set continues to conform to the specifications of IEC 61260-1.

A full technical report is available on request.

CERTIFICATE OF CALIBRATION

CERTIFICATE NO: SLM37462

EQUIPMENT TESTED: Sound Level Meter

Manufacturer:	Svantek		
Type No:	SV307A	**Serial No:**	131847
Mic. Type:	ST30A_V3	**Serial No:**	143473
Pre-Amp. Type:	Internal	**Serial No:**	N/A

Owner: Herring Storer Acoustics
Suite 34, 11 Preston Street
Como, WA 6152

Tests Performed: IEC 61672-3:2013

Comments: All Tests passed for Class 1. (See overleaf for details)

CONDITIONS OF TEST:

Ambient Pressure	1002	hPa ±1 hPa	**Date of Receipt :**	21/09/2023
Temperature	23	°C ±1° C	**Date of Calibration :**	21/09/2023
Relative Humidity	36	% ±5%	**Date of Issue :**	21/09/2023

Acu-Vib Test Procedure: AVP10 (SLM) based on IEC 61672-3.

CHECKED BY: ..... **AUTHORISED SIGNATURE:** .....
Hein Soe

Accredited for compliance with ISO/IEC 17025 - Calibration
Results of the tests, calibration and/or measurements included in this document are traceable to SI units through reference equipment that has been calibrated by the Australian National Measurement Institute or other NATA accredited laboratories demonstrating traceability.

This report applies only to the item identified in the report and may not be reproduced in part.

The uncertainties quoted are calculated in accordance with the methods of the ISO Guide to the Uncertainty of Measurement and quoted at a coverage factor of 2 with a confidence interval of approximately 95%.

NATA
WORLD RECOGNISED ACCREDITATION
Accredited Lab No. 9262
Acoustic and Vibration Measurements

Acu-Vib Electronics
CALIBRATIONS SALES RENTALS REPAIRS

Head Office & Calibration Laboratory
Unit 14, 22 Hudson Ave, Castle Hill NSW 2154
(02) 9680 8133
www.acu-vib.com.au

The performance characteristics listed below were tested. The tests are based on the relevant clauses of IEC 61672-3:2013

Tests Performed:	*Clause*	*Result*
Absolute Calibration	10	Pass
Acoustical Frequency Weighting	12	Pass
Self-Generated Noise	11.1	Observed
Electrical Noise	11.2	Observed
Long Term Stability	15	Pass
Electrical Frequency Weightings	13	Pass
Frequency and Time Weightings	14	Pass
Reference Level Linearity	16	Pass
Range Level Linearity	17	Not Available
Toneburst	18	Pass
Peak C Sound Level	19	Pass
Overload Indicator	20	Pass
High Level Stability	21	Pass

Statement of Compliance: The sound level meter submitted for testing has successfully completed the class 1 periodic tests of IEC 61672-3:2013, for the environmental conditions under which the tests were performed. As public evidence was available, from an independent organization responsible for approving the results of pattern evaluation tests performed in accordance with IEC 61672-2:2013, to demonstrate that the model of sound level meter fully conformed to the requirements in IEC 61672-1:2013, the sound level meter submitted for testing conforms to the class 1 requirements of IEC61672-1:2013.

A full technical report is available on request.

SVANTEK

ISO9001 certified

FACTORY CALIBRATION DATA OF THE *SV 307A No. 131821*

with microphone SVANTEK type ST30A_v3 No. 140088

IMEI: 356531110611443

1. CALIBRATION (acoustical)

LEVEL METER function; Reference frequency: 1000Hz; Sound Pressure Level: 114.04 dB.

Characteristic	Correct value [dB]	Indication [dB]	Error [dB]
Z	114.20	114.08	-0.12
A	114.20	114.08	-0.12
C	114.20	114.08	-0.12

Calibration measured with the microphone SVANTEK type ST30A_v3 No. 140088. Calibration factor: 0.00 dB.

2. LINEARITY TEST (electrical)

LEVEL METER function; Characteristic: A; f_{nh}= 31.5 Hz

Nominal result LEQ [dB]	30.0	31.0	32.0	40.0	75.0	85.0
Error [dB]	0.1	0.1	0.1	-0.0	-0.0	0.0

LEVEL METER function; Characteristic: A; f_{nh}= 1000 Hz

Nominal result LEQ [dB]	30.0	31.0	32.0	40.0	115.0	125.0
Error [dB]	0.0	0.0	-0.0	0.0	0.0	0.0

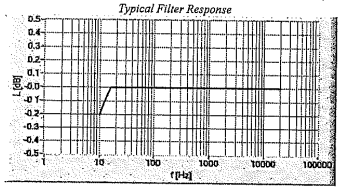
LEVEL METER function; Characteristic: A; f_{nh}= 8000 Hz

Nominal result LEQ [dB]	30.0	31.0	32.0	40.0	114.0	124.0
Error [dB]	0.2	0.1	0.1	-0.0	-0.0	0.0

3. FREQUENCY RESPONSE (electrical)

LEVEL METER function; Characteristic: Z; Input signal =122 dB;

Typical Filter Response



Measured Filter Response (f-frequency, L-level)

f [Hz]	L [dB]	f [Hz]	L [dB]	f [Hz]	L [dB]
10	-3.3	63	-0.1	4000	0.0
12.5	-2.5	125	-0.0	8000	0.0
16	-1.8	250	-0.0	16000	0.0
20	-1.3	500	0.0	20000	-0.0
25	-0.9	1000	0.0		
31.5	-0.6	2000	0.0		

All frequencies are nominal center values for the 1/3 octave bands

4. FREQUENCY RESPONSE (acoustical)

LEVEL METER function; Characteristic: Z; Input: 90 dB;

Frequency [Hz]	20	31.5	63	125	250	500	800	1000	2000
Pressure Response [dB]	-0.3	-0.3	-0.2	-0.1	-0.1	-0.1	-0.1	-0.2	-0.5
Free Field Response [dB]	-0.3	-0.3	-0.2	-0.1	-0.1	-0.1	-0.1	0.0	0.1

Frequency [Hz]	3150	4000	5000	6300	8000	10000	12500	16000
Pressure Response [dB]	-0.9	-1.3	-1.8	-2.5	-3.3	-4.0	-4.6	-6.2
Free Field Response [dB]	0.2	0.3	0.5	0.6	0.6	0.4	0.1	-1.4

5. INTERNAL NOISE LEVEL (electrical - compensated)

LEVEL METER function; Calibration factor: 0dB

Characteristic	Z	A	C
Level [dB]	≤32	≤19	≤23

6. INTERNAL NOISE LEVEL (acoustical - compensated)

LEVEL METER function; Characteristic: A;

Indication [dB]	≤23

Noise measured in special chamber, with reference microphone G.R.A.S type 40AN No. 73421

ENVIRONMENTAL CONDITIONS

Temperature	Relative humidity	Ambient pressure
22 °C	28%	1018 hPa

TEST EQUIPMENT

Item	Manufacturer	Model	Serial no.	Description
1.	SVANTEK	SVAN 401	65	Signal generator
2.	SVANTEK	SVAN 979	69475	Sound & Vibration Analyser
3.	RIGOL	DM3068	DM30155100773	Digital multimeter
4.	SVANTEK	SV30A	7449	Acoustic calibrator
5.	G.R.A.S.	51AB	200368	Sound Intensity Calibrator
6.	BRUEL&KJAER	BK4192	3340649	Reference Pressure Microphone
7.	G.R.A.S.	40AN	73421	Reference Free Field Microphone
8.	SVANTEK	SL3071	-	Microphone equivalent electrical impedance

CONFORMITY & TEST DECLARATION

1. Herewith Svantek company declares that this instrument has been calibrated and tested in compliance with the internal ISO9001 procedures and meets all specification given in the Manual(s) or respectively surpass them.
2. The acoustic calibration was performed using the Sound Calibrator and is traceable to the GUM (Central Office of Measures) reference standard - sound level calibrator type 4231 No 2292773.
3. The information appearing on this sheet has been compiled specifically for this instrument. This form is produced with advanced equipment & procedures which permit comprehensive quality assurance verification of all data supplied herein.
4. This calibration sheet shall not be reproduced except in full, without written permission of the SVANTEK Ltd.

Calibration specialist: Ryszard Leoniak ....

Test date: 2023-02-14

SVANTEK

ISO9001 certified

FACTORY CALIBRATION DATA OF THE *SV 307A No. 131860*

with microphone SVANTEK type ST30A_v3 No. 140060

IMEI: 356531110881384

1. CALIBRATION (acoustical)

LEVEL METER function; Reference frequency: 1000Hz; Sound Pressure Level: **114.07** dB.

Characteristic	Correct value [dB]	Indication [dB]	Error [dB]
Z	113.91	113.93	0.02
A	113.91	113.93	0.02
C	113.91	113.93	0.02

Calibration measured with the microphone SVANTEK type ST30A_v3 No. 140060. Calibration factor: 0.00 dB.

2. LINEARITY TEST (electrical)

LEVEL METER function; Characteristic: A; f_{sin}= 31.5 Hz

Nominal result LEQ [dB]	30.0	31.0	32.0	40.0	75.0	85.0
Error [dB]	0.2	0.2	0.1	0.0	-0.0	0.0

LEVEL METER function; Characteristic: A; f_{sin}= 1000 Hz

Nominal result LEQ [dB]	30.0	31.0	32.0	40.0	115.0	125.0
Error [dB]	0.3	0.1	0.1	0.0	0.0	0.0

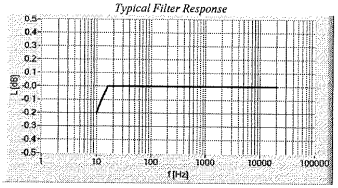
LEVEL METER function; Characteristic: A; f_{sin}= 8000 Hz

Nominal result LEQ [dB]	30.0	31.0	32.0	40.0	114.0	124.0
Error [dB]	0.1	0.1	0.0	-0.0	0.0	0.0

3. FREQUENCY RESPONSE (electrical)

LEVEL METER function; Characteristic: Z; Input signal =122 dB;

Typical Filter Response



Measured Filter Response
(f-frequency, L-level)

f [Hz]	L [dB]	f [Hz]	L [dB]	f [Hz]	L [dB]
10	-3.2	63	-0.1	4000	0.0
12.5	-2.4	125	-0.0	8000	0.0
16	-1.7	250	0.0	16000	0.0
20	-1.2	500	0.0	20000	-0.0
25	-0.8	1000	0.0		
31.5	-0.5	2000	0.0		

All frequencies are nominal center values for the 1/3 octave bands

4. FREQUENCY RESPONSE (acoustical)

LEVEL METER function; Characteristic: Z; Input: 90 dB;

Frequency [Hz]	20	31.5	63	125	250	500	800	1000	2000
Pressure Response [dB]	-0.0	-0.0	-0.1	-0.1	-0.0	-0.1	-0.1	-0.2	-0.5
Free Field Response [dB]	-0.0	-0.0	-0.1	-0.1	-0.1	-0.1	-0.0	-0.0	-0.0

Frequency [Hz]	3150	4000	5000	6300	8000	10000	12500	16000
Pressure Response [dB]	-1.1	-1.6	-2.2	-3.0	-3.9	-4.8	-5.9	-7.6
Free Field Response [dB]	0.1	0.0	0.2	0.1	-0.0	-0.4	-1.2	-2.8

5. INTERNAL NOISE LEVEL (electrical - compensated)

LEVEL METER function; Calibration factor: 0dB

Characteristic	Z	A	C
Level [dB]	≤32	≤19	≤23

6. INTERNAL NOISE LEVEL (acoustical - compensated)

LEVEL METER function; Characteristic: A;

Indication [dB]	≤23

Noise measured in special chamber, with reference microphone G.R.A.S type 40AN No. 73421

ENVIRONMENTAL CONDITIONS

Temperature	Relative humidity	Ambient pressure
23 °C	26%	1007 hPa

TEST EQUIPMENT

Item	Manufacturer	Model	Serial no.	Description
1.	SVANTEK	SVAN 401	100	Signal generator
2.	SVANTEK	SVAN 912A	4369	Sound &Vibration Analyser
3.	RIGOL	DM3068	DM30155100773	Digital multimeter
4.	SVANTEK	SV33B	93171	Acoustic calibrator
5.	G.R.A.S.	51AB	200368	Sound Intensity Calibrator
6.	BRUEL&KJAER	BK4192	3340650	Reference Pressure Microphone
7.	G.R.A.S.	40AN	73421	Reference Free Field Microphone
8.	SVANTEK	SL3071	-	Microphone equivalent electrical impedance

CONFORMITY & TEST DECLARATION

1. Herewith Svantek company declares that this instrument has been calibrated and tested in compliance with the internal ISO9001 procedures and meets all specification given in the Manual(s) or respectively surpass them.
2. The acoustic calibration was performed using the Sound Calibrator and is traceable to the GUM (Central Office of Measures) reference standard - sound level calibrator type 4231 No 2292773.
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4. This calibration sheet shall not be reproduced except in full, without written permission of the SVANTEK Ltd.

Calibration specialist: Cezary Dardziński .....

Test date: 2023-02-16

5. INTERNAL NOISE LEVEL (electrical - compensated)

LEVEL METER function; Calibration factor: 0dB

Characteristic	Z	A	C
Level [dB]	≤32	≤19	≤23

6. INTERNAL NOISE LEVEL (acoustical - compensated)

LEVEL METER function; Characteristic: A:

Indication [dB]	≤23

Noise measured in special chamber, with reference microphone G.R.A.S type 40AN No. 73421

ENVIRONMENTAL CONDITIONS

Temperature	Relative humidity	Ambient pressure
26 °C	49%	999 hPa

TEST EQUIPMENT

Item	Manufacturer	Model	Serial no.	Description
1.	SVANTEK	SVAN 401	127	Signal generator
2.	SVANTEK	SV979	21041	Sound &Vibration Analyser
3.	RIGOL	DM3068	DM30155100773	Digital multimeter
4.	SVANTEK	SV33B	109989	Acoustic calibrator
5.	G.R.A.S.	51AB	200368	Sound Intensity Calibrator
6.	BRUEL&KJAER	BK4192	3340648	Reference Pressure Microphone
7.	G.R.A.S.	40AN	73421	Reference Free Field Microphone
8.	SVANTEK	SL3071	-	Microphone equivalent electrical impedance

CONFORMITY & TEST DECLARATION

1. Herewith Svantek company declares that this instrument has been calibrated and tested in compliance with the internal ISO9001 procedures and meets all specification given in the Manual(s) or respectively surpass them.
2. The acoustic calibration was performed using the Sound Calibrator and is traceable to the GUM (Central Office of Measures) reference standard - sound level calibrator type 4231 No 2292773.
3. The information appearing on this sheet has been compiled specifically for this instrument. This form is produced with advanced equipment & procedures which permit comprehensive quality assurance verification of all data supplied herein.
4. This calibration sheet shall not be reproduced except in full, without written permission of the SVANTEK Ltd.

Calibration specialist: Maria Sawicka ..... Test date: 2023-09-20

SVANTEK ISO9001 certified

FACTORY CALIBRATION DATA OF THE *SV 307A No. 131848*

with microphone SVANTEK type ST30A_v3 No. 141297

IMEI: 356531110616491

1. CALIBRATION (acoustical)

LEVEL METER function; Reference frequency: 1000Hz; Sound Pressure Level: **114.07** dB.

Characteristic	Correct value [dB]	Indication [dB]	Error [dB]
Z	113.91	113.89	-0.02
A	113.91	113.89	-0.02
C	113.91	113.89	-0.02

Calibration measured with the microphone SVANTEK type ST30A_v3 No. 141297. Calibration factor: 0.00 dB.

2. LINEARITY TEST (electrical)

LEVEL METER function; Characteristic: A; f_{sin}= 31.5 Hz

Nominal result LEQ [dB]	30.0	31.0	32.0	40.0	75.0	85.0
Error [dB]	0.1	0.1	0.0	0.0	-0.0	0.0

LEVEL METER function; Characteristic: A; f_{sin}= 1000 Hz

Nominal result LEQ [dB]	30.0	31.0	32.0	40.0	115.0	125.0
Error [dB]	0.1	0.1	0.1	0.0	-0.0	0.0

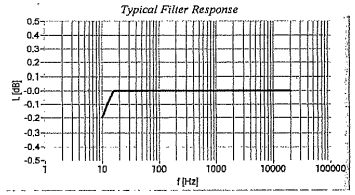
LEVEL METER function; Characteristic: A; f_{sin}= 8000 Hz

Nominal result LEQ [dB]	30.0	31.0	32.0	40.0	114.0	124.0
Error [dB]	0.0	-0.0	0.0	-0.0	-0.0	0.0

3. FREQUENCY RESPONSE (electrical)

LEVEL METER function; Characteristic: Z; Input signal =122 dB;

Typical Filter Response



Measured Filter Response (f-frequency, L-level)

f [Hz]	L [dB]	f [Hz]	L [dB]	f [Hz]	L [dB]
10	-3.3	63	-0.1	4000	0.0
12.5	-2.5	125	-0.0	8000	0.0
16	-1.8	250	0.0	16000	0.0
20	-1.3	500	0.0	20000	-0.0
25	-0.8	1000	0.0		
31.5	-0.6	2000	0.0		

All frequencies are nominal center values for the 1/3 octave bands

4. FREQUENCY RESPONSE (acoustical)

LEVEL METER function; Characteristic: Z; Input: 90 dB;

Frequency [Hz]	20	31.5	63	125	250	500	800	1000	2000
Pressure Response [dB]	0.1	0.1	0.0	0.1	0.1	0.0	-0.0	-0.2	-0.7
Free Field Response [dB]	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	-0.2

Frequency [Hz]	3150	4000	5000	6300	8000	10000	12500	16000
Pressure Response [dB]	-1.5	-2.2	-3.1	-4.0	-5.1	-6.3	-7.6	-9.4
Free Field Response [dB]	-0.4	-0.6	-0.7	-0.9	-1.1	-1.9	-2.9	-4.7

APPENDIX D

TURBINE SPECIFICATIONS

Goldwind International

Solution Department

Description of GWH182-8.0MW Acoustic Performance

GOLDWIND INTERNATIONAL HOLDINGS (HK) LIMITED
www.goldwindinternational.com
info@goldwind.com.cn

RECORD OF CHANGES

Version	Date	Reason for Issue	Author	Checked	Approved
A	July 10,2024	1st release	LYU Zongning	MA Mengjiao	WANG Bin
B	Dec. 2nd , 2024	2nd release	GE Ming	XIE Mengxi	SU Shi
C	Dec. 3rd , 2024	3rd release	XIE Mengxi	GE Ming	SU Shi
D	Jan. 6th , 2025	4th release	XIE Mengxi	GE Ming	/
E	Feb. 19th , 2025	5th release	XIE Mengxi	GE Ming	/
F	May. 12th , 2025	6th release	XIE Mengxi	GE Ming	/

The document is drafted in accordance with the rules given in the ISO/IEC Directives, Part 2

The document is under the jurisdiction of GOLDWIND INTERNATIONAL HOLDINGS (HK) LIMITED. (Hereinafter referred to as GWI) and applies to GWI and its subsidiaries.

Prepared by Solution Department of GWI.

Description of GWH182-8.0MW Acoustic Performance

1. Scope of Application

This document specifies the acoustic performance of GWH182-8.0MW WTG.

2. Reference, Terms & Definitions

For the purposes of this document, the following terms and definitions apply. (e.g.)

GWI	Goldwind International
WTG	Wind Turbine Generator

3. Acoustic Performance

The Sound Power Level of the WTG shall be set forth in the contract and as determined by IEC 61400-11 Edition 3.0 2012-11.

Sound power level performance standard compliance shall be assessed in the following manner:

1. Within ninety (90) days of Substantial Completion of the Project, Buyer shall have the right but not the obligation to, at Buyer's expense, test the acoustic emissions of the Project Wind Turbines in accordance with the testing procedures outlined in IEC 61400-11 Edition 3.0 2012-11. Wind turbines – Part 11: Acoustic noise measurement techniques". Performance of such testing, if selected, shall not begin with less than fifteen (15) day notice to the Supplier. Supplier shall have the opportunity to witness any such testing performed.

2. WTG sound power level for various wind speeds at hub height is described in Table 1, which is under the standard environmental condition: Air density 1.225kg/m^3, Temperature 15°C, Humidity 50%, and the blade surface should be without contamination, damage or defects.

Table 1 Sound Power Level for various wind speeds at hub height*

Wind Speed (m/s)	Sound Power Level (dBA)
2.5	90.3
3	90.4
3.5	93.8
4	96.8
4.5	99.4
5	101 .8
5.5	103.9
6	105.8
6.5	107.5
7	109.1
7.5	110.7
8	112
8.5	112
9	112
9.5	112
10	112
10.5	112
11	112
11.5	112
12-24	112

Table 2 Sound Power Level for various wind speeds at hub height (with serration) *

Wind Speed (m/s)	Sound Power Level (dBA)
2.5	88.8
3	88.9
3.5	92.3
4	95.3
4.5	97.9
5	100.3
5.5	102.4
6	104.3
6.5	106
7	107.6
7.5	109.2
8	110.5
8.5	110.5
9	110.5
9.5	110.5
10	110.5
10.5	110.5
11	110.5
11.5	110.5
12-24	110.5

*Uncertainty should be considered additionally as the one shown in Table 3 for each wind speed.

**Sound power level for various wind speed is for reference only, not for noise warranty.

Table 3 Maximum Sound Power Level for WTG at Hub Height

	Maximum sound power level (dBA)	**Uncertainty (dBA)***
GWH182-8.0	112.0	±1.7

* The sound power level shown without considering measurement uncertainty according to IEC61400-11.

** The uncertainty has been considered during manufacture and acoustic testing process.

4. Tonality

The tonality audibility level of GWH182-8.0MW: < 0 dB.

Annex I Sound Reduction Mode (SRM)

Table 4 Sound Reduction Mode

Operation mode	Sound power level [dBA]	Reated speed [rpm]	Rated power [kW]	Serration
SRM 1	111.0	9.1	7660.0	No
SRM 1S	109.5	9.1	7660.0	Yes
SRM 2	110.0	8.7	7321.0	No
SRM 2S	108.5	8.7	7321.0	Yes
SRM3	109.0	8.3	6320.8	No
SRM 3S	107.5	8.3	6320.8	Yes
SRM4	108.0	7.9	6016.2	No
SRM 4S	106.5	7.9	6016.2	Yes
SRM5	107.0	7.5	5180.9	No
SRM 5S	105.5	7.5	5180.9	Yes
SRM6	106.0	7.2	4574.6	No
SRM 6S	104.5	7.2	4574.6	Yes
SRM7	105.0	6.9	4012.6	No
SRM 7S	103.5	6.9	4012.6	Yes
SRM8	104.0	6.6	3496.0	No
SRM 8S	102.5	6.6	3496.0	Yes
SRM9	103.0	6.3	3023.3	No
SRM 9S	101.5	6.3	3023.3	Yes
SRM10	102.0	6.0	2602.6	No
SRM 10S	100.5	6.0	2602.6	Yes
SRM11	101.0	5.7	2224.9	No
SRM 11S	99.5	5.7	2224.9	Yes
SRM12	100.0	5.5	1995.5	No
SRM 12S	98.5	5.5	1995.5	Yes

Table 5 Sound power level for various wind speeds in SRM 1-12

HH	Sound power level [dBA] (without serration)											
Speed m/s	SRM1	SRM2	SRM3	SRM4	SRM5	SRM6	SRM7	SRM8	SRM9	SRM10	SRM11	SRM12
2.5	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
3.5	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
4	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
4.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
5	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	100.9	100.1
5.5	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103	102	101	100
6	105.8	105.8	105.8	105.8	105.8	105.8	105	104	103	102	101	100
6.5	107.5	107.5	107.5	107.5	107	106	105	104	103	102	101	100
7	109.1	109.1	109	108	107	106	105	104	103	102	101	100
7.5	110.7	110	109	108	107	106	105	104	103	102	101	100
8	111	110	109	108	107	106	105	104	103	102	101	100
8.5	111	110	109	108	107	106	105	104	103	102	101	100
9	111	110	109	108	107	106	105	104	103	102	101	100
9.5	111	110	109	108	107	106	105	104	103	102	101	100
10	111	110	109	108	107	106	105	104	103	102	101	100
10.5	111	110	109	108	107	106	105	104	103	102	101	100
11	111	110	109	108	107	106	105	104	103	102	101	100
11.5	111	110	109	108	107	106	105	104	103	102	101	100
12	111	110	109	108	107	106	105	104	103	102	101	100
12.5	111	110	109	108	107	106	105	104	103	102	101	100
13	111	110	109	108	107	106	105	104	103	102	101	100
13.5	111	110	109	108	107	106	105	104	103	102	101	100
14	111	110	109	108	107	106	105	104	103	102	101	100
14.5	111	110	109	108	107	106	105	104	103	102	101	100
15	111	110	109	108	107	106	105	104	103	102	101	100
15.5	111	110	109	108	107	106	105	104	103	102	101	100
16	111	110	109	108	107	106	105	104	103	102	101	100
16.5	111	110	109	108	107	106	105	104	103	102	101	100
17.0-24.0	111	110	109	108	107	106	105	104	103	102	101	100

HH	Sound power level [dBA] (with serration)

Speed m/s	SRM1S	SRM2S	SRM3S	SRM4S	SRM5S	SRM6S	SRM7S	SRM8S	SRM9S	SRM10S	SRM11S	SRM12S
2.5	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
3	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
3.5	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
4	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
4.5	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
5	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	99.4	98.6
5.5	102.4	102.4	102.4	102.4	102.4	102.4	102.4	102.4	101.5	100.5	99.5	98.5
6	104.3	104.3	104.3	104.3	104.3	104.3	103.5	102.5	101.5	100.5	99.5	98.5
6.5	106	106	106	106	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
7	107.6	107.6	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
7.5	109.2	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
8	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
8.5	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
9	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
9.5	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
10	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
10.5	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
11	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
11.5	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
12	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
12.5	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
13	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
13.5	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
14	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
14.5	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
15	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
15.5	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
16	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
16.5	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5
17.0-24.0	109.5	108.5	107.5	106.5	105.5	104.5	103.5	102.5	101.5	100.5	99.5	98.5

Note:

1. When the blade configuration includes serrations, the sound power level can be reduced by 1.5dB. Correspondingly, the average sound power level for various wind speeds can be reduced by 1.5dB at each wind speed.
2. Uncertainty should be considered additionally as the one shown in Table 3 for each wind speed.

Annex II Power Curve at Different Sound Power Mode

Wind speed [m/s]	Power Curve [kW] at standard density 1.225kg/m3												
	NPM1	SRM1	SRM2	SRM3	SRM4	SRM5	SRM6	SRM7	SRM8	SRM9	SRM10	SRM11	SRM12
2.5	33	30	30	30	31	31	31	23	23	23	24	23	23
3	123	121	121	122	120	120	121	111	111	111	111	111	111
3.5	230	227	225	229	222	224	227	206	204	210	212	205	208
4	384	381	381	383	382	383	383	354	355	356	351	357	354
4.5	603	599	597	598	599	599	598	563	563	563	563	564	563
5	859	856	854	857	856	854	856	807	807	809	808	803	798
5.5	1166	1162	1160	1162	1163	1162	1163	1098	1098	1093	1084	1056	1030
6	1528	1522	1525	1523	1523	1519	1518	1439	1425	1400	1356	1291	1240
6.5	1939	1936	1936	1931	1929	1920	1903	1799	1757	1688	1603	1505	1433
7	2420	2409	2408	2402	2383	2343	2291	2146	2055	1953	1835	1709	1621
7.5	2960	2944	2937	2915	2847	2753	2650	2457	2334	2197	2057	1904	1800
8	3555	3534	3503	3455	3286	3128	2986	2756	2601	2438	2266	2082	1925
8.5	4182	4152	4089	4005	3695	3486	3309	3047	2863	2671	2448	2186	1996
9	4814	4795	4698	4569	4094	3840	3631	3335	3116	2870	2565	2225	1996
9.5	5401	5448	5306	5110	4479	4184	3947	3614	3340	2998	2603	2225	1996
10	5938	6090	5887	5589	4855	4517	4236	3833	3466	3023	2603	2225	1996
10.5	6430	6682	6403	5969	5216	4818	4455	3990	3496	3023	2603	2225	1996
11	6884	7172	6839	6226	5543	5050	4575	4013	3496	3023	2603	2225	1996
11.5	7292	7523	7152	6321	5808	5181	4575	4013	3496	3023	2603	2225	1996
12	7617	7660	7321	6321	5991	5181	4575	4013	3496	3023	2603	2225	1996
12.5	7822	7660	7321	6321	6016	5181	4575	4013	3496	3023	2603	2225	1996
13	7935	7660	7321	6321	6016	5181	4575	4013	3496	3023	2603	2225	1996
13.5	7985	7660	7321	6321	6016	5181	4575	4013	3496	3023	2603	2225	1996
14	8000	7660	7321	6321	6016	5181	4575	4013	3496	3023	2603	2225	1996
14.5	8000	7660	7321	6321	6016	5181	4575	4013	3496	3023	2603	2225	1996
15	8000	7660	7321	6321	6016	5181	4575	4013	3496	3023	2603	2225	1996
15.5	8000	7660	7321	6321	6016	5181	4575	4013	3496	3023	2603	2225	1996
16	8000	7660	7321	6321	6016	5181	4575	4013	3496	3023	2603	2225	1996
16.5	8000	7660	7321	6321	6016	5181	4575	4013	3496	3023	2603	2225	1996
17	8000	7660	7321	6321	6016	5181	4575	4013	3496	3023	2603	2225	1996
17.5	8000	7660	7321	6321	6016	5181	4575	4013	3496	3023	2603	2225	1996
18	8000	7660	7321	6321	6016	5181	4575	4013	3496	3023	2603	2225	1996
18.5	7986	7660	7321	6321	6016	5181	4575	4013	3496	3023	2603	2225	1996
19	7903	7660	7321	6321	6016	5181	4575	4013	3496	3023	2603	2225	1996
19.5	7747	7587	7273	6296	6001	5148	4552	4013	3496	3023	2603	2225	1996
20	7501	7382	7061	6094	5800	4994	4423	3958	3463	2998	2581	2209	1985
20.5	7192	7061	6756	5806	5549	4790	4231	3820	3337	2886	2495	2136	1907

21	6832	6687	6412	5494	5264	4556	4002	3649	3169	2744	2369	2018	1812
21.5	6453	6290	6033	5193	4937	4259	3763	3443	3000	2585	2243	1926	1713
22	6040	5871	5655	4879	4622	3968	3521	3230	2804	2438	2116	1803	1619
22.5	5665	5530	5299	4566	4343	3713	3299	2998	2642	2293	1965	1691	1500
23	5339	5232	4970	4330	4060	3509	3101	2837	2466	2142	1848	1583	1397
23.5	5074	4964	4678	4082	3873	3319	2923	2653	2325	2025	1739	1466	1319
24	4828	4704	4396	3821	3720	3128	2750	2541	2228	1933	1666	1429	1256

Wind Speed	Thrust coefficient CT (-) at standard density 1.225kg/m3												
[m/s]	NPM1	SRM1	SRM2	SRM3	SRM4	SRM5	SRM6	SRM7	SRM8	SRM9	SRM10	SRM11	SRM12
2.5	0.9554	0.9482	0.9602	0.9565	0.9554	0.9564	0.9519	0.957	0.9571	0.9468	0.9548	0.9568	0.9602
3	0.8326	0.8325	0.8284	0.8313	0.8296	0.8300	0.8267	0.8348	0.8343	0.8317	0.8331	0.8307	0.8344
3.5	0.8791	0.8887	0.8788	0.8750	0.8844	0.8755	0.8690	0.8752	0.8961	0.8606	0.8477	0.8744	0.8792
4	0.8892	0.8871	0.8876	0.8834	0.8849	0.8825	0.8785	0.8921	0.8837	0.8844	0.8897	0.8862	0.8884
4.5	0.8219	0.8201	0.8142	0.8182	0.8174	0.8190	0.8196	0.8166	0.8196	0.8153	0.8174	0.8146	0.8074
5	0.7916	0.7924	0.7909	0.7934	0.7924	0.7910	0.7914	0.7921	0.7917	0.787	0.777	0.7587	0.7361
5.5	0.7794	0.7803	0.7794	0.7801	0.7805	0.7798	0.7780	0.7769	0.7672	0.7489	0.7217	0.6805	0.6484
6	0.7684	0.7686	0.7691	0.7688	0.7679	0.7645	0.7559	0.7393	0.7218	0.6876	0.645	0.5932	0.558
6.5	0.7559	0.7565	0.7558	0.7538	0.7477	0.7328	0.7140	0.6869	0.6535	0.6084	0.5611	0.5129	0.4805
7	0.7425	0.7423	0.7390	0.7312	0.7142	0.6856	0.6567	0.62	0.5775	0.5334	0.4902	0.4473	0.419
7.5	0.7268	0.7242	0.7123	0.6953	0.6663	0.6274	0.5894	0.5499	0.5098	0.4696	0.4314	0.3925	0.3681
8	0.7051	0.6943	0.6773	0.6536	0.6067	0.5619	0.5255	0.4888	0.453	0.4172	0.3817	0.346	0.3173
8.5	0.6759	0.6583	0.6378	0.6130	0.5472	0.5041	0.4704	0.4374	0.4049	0.3726	0.3376	0.2979	0.2704
9	0.6376	0.6225	0.5995	0.5745	0.4942	0.4547	0.4236	0.3938	0.3638	0.3315	0.2931	0.2541	0.2271
9.5	0.5891	0.5863	0.5632	0.5355	0.4481	0.4116	0.3840	0.3559	0.3258	0.2899	0.2519	0.2147	0.1908
10	0.5385	0.5512	0.5272	0.4940	0.4080	0.3748	0.3488	0.3189	0.2858	0.2498	0.2145	0.1825	0.1632
10.5	0.4910	0.5155	0.4871	0.4487	0.3727	0.3413	0.3152	0.2827	0.2475	0.2151	0.1842	0.1566	0.1401
11	0.4484	0.4754	0.4471	0.4016	0.3417	0.3095	0.2797	0.248	0.2157	0.1857	0.1593	0.1357	0.1217
11.5	0.4087	0.4307	0.4038	0.3528	0.3109	0.2765	0.2465	0.2161	0.1873	0.1615	0.1393	0.1188	0.1065
12	0.3712	0.3819	0.3590	0.3084	0.2809	0.2450	0.2161	0.1887	0.1638	0.1416	0.1221	0.1044	0.0937
12.5	0.3341	0.3346	0.3165	0.2694	0.2511	0.2160	0.1900	0.1658	0.1445	0.1251	0.1078	0.0924	0.0832
13	0.2987	0.2934	0.2789	0.2369	0.2229	0.1911	0.1679	0.147	0.128	0.111	0.0961	0.0824	0.0742
13.5	0.2654	0.2588	0.2461	0.2092	0.1983	0.1695	0.1492	0.1309	0.1142	0.0991	0.0858	0.0738	0.0665
14	0.2367	0.2292	0.2182	0.1863	0.1767	0.1515	0.1335	0.1172	0.1025	0.0891	0.0771	0.0664	0.0599
14.5	0.2115	0.2048	0.1950	0.1672	0.1583	0.1361	0.1199	0.1055	0.0922	0.0803	0.0696	0.06	0.0542
15	0.1904	0.1840	0.1754	0.1504	0.1428	0.1226	0.1085	0.0953	0.0834	0.0727	0.0631	0.0544	0.0491
15.5	0.1719	0.1660	0.1584	0.1362	0.1292	0.1111	0.0982	0.0864	0.0758	0.0662	0.0574	0.0496	0.0449

16	0.1554	0.1505	0.1435	0.1234	0.1174	0.1011	0.0893	0.0788	0.0692	0.0604	0.0525	0.0454	0.041
16.5	0.1415	0.1369	0.1305	0.1126	0.1069	0.0921	0.0817	0.0721	0.0633	0.0553	0.0481	0.0416	0.0376
17	0.1294	0.1251	0.1194	0.1030	0.0978	0.0845	0.0748	0.066	0.0581	0.0508	0.0442	0.0383	0.0347
17.5	0.1185	0.1148	0.1094	0.0945	0.0898	0.0775	0.0688	0.0608	0.0535	0.0469	0.0408	0.0354	0.032
18	0.1088	0.1054	0.1005	0.0870	0.0827	0.0715	0.0634	0.0561	0.0494	0.0432	0.0377	0.0327	0.0297
18.5	0.1002	0.0971	0.0927	0.0802	0.0763	0.0660	0.0586	0.0519	0.0457	0.0401	0.035	0.0303	0.0275
19	0.0923	0.0896	0.0854	0.0741	0.0706	0.0611	0.0542	0.0481	0.0424	0.0371	0.0325	0.0282	0.0256
19.5	0.0844	0.0821	0.0786	0.0683	0.0649	0.0564	0.0499	0.0444	0.0391	0.0344	0.0301	0.0261	0.0238
20	0.0766	0.0747	0.0716	0.0622	0.0592	0.0511	0.0456	0.0404	0.0357	0.0314	0.0275	0.0239	0.0217
20.5	0.0687	0.0674	0.0643	0.0558	0.0531	0.0462	0.0412	0.0365	0.0322	0.0284	0.0249	0.0217	0.0196
21	0.0613	0.0598	0.0574	0.0495	0.0475	0.0413	0.0368	0.0326	0.0288	0.0254	0.0222	0.0193	0.0176
21.5	0.0543	0.0530	0.0509	0.0440	0.0422	0.0368	0.0327	0.029	0.0257	0.0225	0.0198	0.0173	0.0156
22	0.0483	0.0469	0.0449	0.0391	0.0372	0.0324	0.0290	0.0257	0.0227	0.02	0.0176	0.0153	0.0139
22.5	0.0424	0.0412	0.0397	0.0346	0.0330	0.0286	0.0257	0.0226	0.0202	0.0177	0.0155	0.0135	0.0122
23	0.0375	0.0366	0.0352	0.0307	0.0293	0.0254	0.0228	0.0202	0.0178	0.0156	0.0137	0.0119	0.0107
23.5	0.0335	0.0329	0.0313	0.0276	0.0260	0.0228	0.0203	0.0179	0.0158	0.014	0.0121	0.0105	0.0095
24	0.0303	0.0296	0.0280	0.0246	0.0236	0.0204	0.0182	0.0162	0.0143	0.0126	0.011	0.0096	0.0086

Annex III One-Third Octave Sound Power Spectrum

Table 6 One-third octave sound power spectrum for maximum sound power level (dBA) - NPM1

Frequency [Hz]	Hub height wind speeds [m/s]																								
	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15-24
25	42.4	42.5	45.9	48.9	51.5	53.9	56	57.9	59.6	61.2	62.8	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
32	48.1	48.2	51.6	54.6	57.2	59.6	61.7	63.6	65.3	66.9	68.5	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8	69.8
40	53.6	53.7	57.1	60.1	62.7	65.1	67.2	69.1	70.8	72.4	74	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3	75.3
50	59	59.1	62.5	65.5	68.1	70.5	72.6	74.5	76.2	77.8	79.4	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
63	64.1	64.2	67.6	70.6	73.2	75.6	77.7	79.6	81.3	82.9	84.5	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
80	68.8	68.9	72.3	75.3	77.9	80.3	82.4	84.3	86	87.6	89.2	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
100	72.8	72.9	76.3	79.3	81.9	84.3	86.4	88.3	90	91.6	93.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
125	75.9	76	79.4	82.4	85	87.4	89.5	91.4	93.1	94.7	96.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
160	78	78.1	81.5	84.5	87.1	89.5	91.6	93.5	95.2	96.8	98.4	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7	99.7
200	79.3	79.4	82.8	85.8	88.4	90.8	92.9	94.8	96.5	98.1	99.7	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101
250	80.1	80.2	83.6	86.6	89.2	91.6	93.7	95.6	97.3	98.9	100.5	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8
315	80.3	80.4	83.8	86.8	89.4	91.8	93.9	95.8	97.5	99.1	100.7	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
400	80.3	80.4	83.8	86.8	89.4	91.8	93.9	95.8	97.5	99.1	100.7	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
500	80.2	80.3	83.7	86.7	89.3	91.7	93.8	95.7	97.4	99	100.6	101.9	101.9	101.9	101.9	101.9	101.9	101.9	101.9	101.9	101.9	101.9	101.9	101.9	101.9	101.9
630	80.1	80.2	83.6	86.6	89.2	91.6	93.7	95.6	97.3	98.9	100.5	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8	101.8
800	79.6	79.7	83.1	86.1	88.7	91.1	93.2	95.1	96.8	98.4	100	101.3	101.3	101.3	101.3	101.3	101.3	101.3	101.3	101.3	101.3	101.3	101.3	101.3	101.3	101.3
1000	78.7	78.8	82.2	85.2	87.8	90.2	92.3	94.2	95.9	97.5	99.1	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4
1250	77.5	77.6	81	84	86.6	89	91.1	93	94.7	96.3	97.9	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
1600	75.9	76	79.4	82.4	85	87.4	89.5	91.4	93.1	94.7	96.3	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
2000	74.3	74.4	77.8	80.8	83.4	85.8	87.9	89.8	91.5	93.1	94.7	96	96	96	96	96	96	96	96	96	96	96	96	96	96	96
2500	72.5	72.6	76	79	81.6	84	86.1	88	89.7	91.3	92.9	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2

3150	70.4	70.5	73.9	76.9	79.5	81.9	84	85.9	87.6	89.2	90.8	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
4000	68	68.1	71.5	74.5	77.1	79.5	81.6	83.5	85.2	86.8	88.4	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
5000	65.4	65.5	68.9	71.9	74.5	76.9	79	80.9	82.6	84.2	85.8	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
6300	62.4	62.5	65.9	68.9	71.5	73.9	76	77.9	79.6	81.2	82.8	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
8000	58.7	58.8	62.2	65.2	67.8	70.2	72.3	74.2	75.9	77.5	79.1	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
10000	54.5	54.6	58	61	63.6	66	68.1	70	71.7	73.3	74.9	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
12500	49.8	49.9	53.3	56.3	58.9	61.3	63.4	65.3	67	68.6	70.2	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
∑	90.3	90.4	93.8	96.8	99.4	101.8	103.9	105.8	107.5	109.1	110.7	112	112	112	112	112	112	112	112	112	112	112	112	112	112

Table 7 One-third octave sound power spectrum for maximum sound power level (dBA) - NPM1S

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	40.9	41	44.4	47.4	50	52.4	54.5	56.4	58.1	59.7	61.3	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
32	46.6	46.7	50.1	53.1	55.7	58.1	60.2	62.1	63.8	65.4	67	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3	68.3
40	52.1	52.2	55.6	58.6	61.2	63.6	65.7	67.6	69.3	70.9	72.5	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
50	57.5	57.6	61	64	66.6	69	71.1	73	74.7	76.3	77.9	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
63	62.6	62.7	66.1	69.1	71.7	74.1	76.2	78.1	79.8	81.4	83	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
80	67.3	67.4	70.8	73.8	76.4	78.8	80.9	82.8	84.5	86.1	87.7	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
100	71.3	71.4	74.8	77.8	80.4	82.8	84.9	86.8	88.5	90.1	91.7	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
125	74.4	74.5	77.9	80.9	83.5	85.9	88	89.9	91.6	93.2	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
160	76.5	76.6	80	83	85.6	88	90.1	92	93.7	95.3	96.9	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2	98.2
200	77.8	77.9	81.3	84.3	86.9	89.3	91.4	93.3	95	96.6	98.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
250	78.6	78.7	82.1	85.1	87.7	90.1	92.2	94.1	95.8	97.4	99	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3
315	78.8	78.9	82.3	85.3	87.9	90.3	92.4	94.3	96	97.6	99.2	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5
400	78.8	78.9	82.3	85.3	87.9	90.3	92.4	94.3	96	97.6	99.2	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5

500	78.7	78.8	82.2	85.2	87.8	90.2	92.3	94.2	95.9	97.5	99.1	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4	100.4
630	78.6	78.7	82.1	85.1	87.7	90.1	92.2	94.1	95.8	97.4	99	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3
800	78.1	78.2	81.6	84.6	87.2	89.6	91.7	93.6	95.3	96.9	98.5	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
1000	77.2	77.3	80.7	83.7	86.3	88.7	90.8	92.7	94.4	96	97.6	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9	98.9
1250	76	76.1	79.5	82.5	85.1	87.5	89.6	91.5	93.2	94.8	96.4	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7
1600	74.4	74.5	77.9	80.9	83.5	85.9	88	89.9	91.6	93.2	94.8	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
2000	72.8	72.9	76.3	79.3	81.9	84.3	86.4	88.3	90	91.6	93.2	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
2500	71	71.1	74.5	77.5	80.1	82.5	84.6	86.5	88.2	89.8	91.4	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
3150	68.9	69	72.4	75.4	78	80.4	82.5	84.4	86.1	87.7	89.3	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
4000	66.5	66.6	70	73	75.6	78	80.1	82	83.7	85.3	86.9	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
5000	63.9	64	67.4	70.4	73	75.4	77.5	79.4	81.1	82.7	84.3	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
6300	60.9	61	64.4	67.4	70	72.4	74.5	76.4	78.1	79.7	81.3	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
8000	57.2	57.3	60.7	63.7	66.3	68.7	70.8	72.7	74.4	76	77.6	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
10000	53	53.1	56.5	59.5	62.1	64.5	66.6	68.5	70.2	71.8	73.4	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
12500	48.3	48.4	51.8	54.8	57.4	59.8	61.9	63.8	65.5	67.1	68.7	70	70	70	70	70	70	70	70	70	70	70	70	70	70
∑	88.8	88.9	92.3	95.3	97.9	100.3	102.4	104.3	106	107.6	109.2	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5	110.5

Table 8 One-third octave sound power spectrum for maximum sound power level (dBA) - SRM1

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	42.8	42.9	46.3	49.3	51.9	54.3	56.4	58.3	60	61.6	63.2	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
32	48.4	48.5	51.9	54.9	57.5	59.9	62	63.9	65.6	67.2	68.8	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
40	53.9	54	57.4	60.4	63	65.4	67.5	69.4	71.1	72.7	74.3	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
50	59.3	59.4	62.8	65.8	68.4	70.8	72.9	74.8	76.5	78.1	79.7	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
63	64.3	64.4	67.8	70.8	73.4	75.8	77.9	79.8	81.5	83.1	84.7	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85

80	68.9	69	72.4	75.4	78	80.4	82.5	84.4	86.1	87.7	89.3	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
100	72.9	73	76.4	79.4	82	84.4	86.5	88.4	90.1	91.7	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
125	76	76.1	79.5	82.5	85.1	87.5	89.6	91.5	93.2	94.8	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
160	78.1	78.2	81.6	84.6	87.2	89.6	91.7	93.6	95.3	96.9	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
200	79.4	79.5	82.9	85.9	88.5	90.9	93	94.9	96.6	98.2	99.8	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1
250	80.2	80.3	83.7	86.7	89.3	91.7	93.8	95.7	97.4	99	100.6	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9	100.9
315	80.4	80.5	83.9	86.9	89.5	91.9	94	95.9	97.6	99.2	100.8	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1
400	80.4	80.5	83.9	86.9	89.5	91.9	94	95.9	97.6	99.2	100.8	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1	101.1
500	80.3	80.4	83.8	86.8	89.4	91.8	93.9	95.8	97.5	99.1	100.7	101	101	101	101	101	101	101	101	101	101	101	101	101	101
630	80.1	80.2	83.6	86.6	89.2	91.6	93.7	95.6	97.3	98.9	100.5	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8	100.8
800	79.6	79.7	83.1	86.1	88.7	91.1	93.2	95.1	96.8	98.4	100	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3	100.3
1000	78.8	78.9	82.3	85.3	87.9	90.3	92.4	94.3	96	97.6	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
1250	77.6	77.7	81.1	84.1	86.7	89.1	91.2	93.1	94.8	96.4	98	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
1600	76	76.1	79.5	82.5	85.1	87.5	89.6	91.5	93.2	94.8	96.4	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
2000	74.4	74.5	77.9	80.9	83.5	85.9	88	89.9	91.6	93.2	94.8	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
2500	72.7	72.8	76.2	79.2	81.8	84.2	86.3	88.2	89.9	91.5	93.1	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
3150	70.6	70.7	74.1	77.1	79.7	82.1	84.2	86.1	87.8	89.4	91	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
4000	68.2	68.3	71.7	74.7	77.3	79.7	81.8	83.7	85.4	87	88.6	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
5000	65.6	65.7	69.1	72.1	74.7	77.1	79.2	81.1	82.8	84.4	86	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
6300	62.6	62.7	66.1	69.1	71.7	74.1	76.2	78.1	79.8	81.4	83	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
8000	58.9	59	62.4	65.4	68	70.4	72.5	74.4	76.1	77.7	79.3	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
10000	54.8	54.9	58.3	61.3	63.9	66.3	68.4	70.3	72	73.6	75.2	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5
12500	50.1	50.2	53.6	56.6	59.2	61.6	63.7	65.6	67.3	68.9	70.5	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
Σ	90.3	90.4	93.8	96.8	99.4	101.8	103.9	105.8	107.5	109.1	110.7	111	111	111	111	111	111	111	111	111	111	111	111	111	111

Table 9 One-third octave sound power spectrum for maximum sound power level (dBA) - SRM1S

Frequency [Hz]	Hub height wind speeds [m/s]																									
	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15-24
25	41.3	41.4	44.8	47.8	50.4	52.8	54.9	56.8	58.5	60.1	61.7	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62
32	46.9	47	50.4	53.4	56	58.4	60.5	62.4	64.1	65.7	67.3	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
40	52.4	52.5	55.9	58.9	61.5	63.9	66	67.9	69.6	71.2	72.8	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
50	57.8	57.9	61.3	64.3	66.9	69.3	71.4	73.3	75	76.6	78.2	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
63	62.8	62.9	66.3	69.3	71.9	74.3	76.4	78.3	80	81.6	83.2	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
80	67.4	67.5	70.9	73.9	76.5	78.9	81	82.9	84.6	86.2	87.8	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
100	71.4	71.5	74.9	77.9	80.5	82.9	85	86.9	88.6	90.2	91.8	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
125	74.5	74.6	78	81	83.6	86	88.1	90	91.7	93.3	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
160	76.6	76.7	80.1	83.1	85.7	88.1	90.2	92.1	93.8	95.4	97	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
200	77.9	78	81.4	84.4	87	89.4	91.5	93.4	95.1	96.7	98.3	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
250	78.7	78.8	82.2	85.2	87.8	90.2	92.3	94.2	95.9	97.5	99.1	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
315	78.9	79	82.4	85.4	88	90.4	92.5	94.4	96.1	97.7	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
400	78.9	79	82.4	85.4	88	90.4	92.5	94.4	96.1	97.7	99.3	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
500	78.8	78.9	82.3	85.3	87.9	90.3	92.4	94.3	96	97.6	99.2	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
630	78.6	78.7	82.1	85.1	87.7	90.1	92.2	94.1	95.8	97.4	99	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3	99.3
800	78.1	78.2	81.6	84.6	87.2	89.6	91.7	93.6	95.3	96.9	98.5	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
1000	77.3	77.4	80.8	83.8	86.4	88.8	90.9	92.8	94.5	96.1	97.7	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
1250	76.1	76.2	79.6	82.6	85.2	87.6	89.7	91.6	93.3	94.9	96.5	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
1600	74.5	74.6	78	81	83.6	86	88.1	90	91.7	93.3	94.9	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
2000	72.9	73	76.4	79.4	82	84.4	86.5	88.4	90.1	91.7	93.3	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
2500	71.2	71.3	74.7	77.7	80.3	82.7	84.8	86.7	88.4	90	91.6	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
3150	69.1	69.2	72.6	75.6	78.2	80.6	82.7	84.6	86.3	87.9	89.5	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8

4000	66.7	66.8	70.2	73.2	75.8	78.2	80.3	82.2	83.9	85.5	87.1	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
5000	64.1	64.2	67.6	70.6	73.2	75.6	77.7	79.6	81.3	82.9	84.5	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
6300	61.1	61.2	64.6	67.6	70.2	72.6	74.7	76.6	78.3	79.9	81.5	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
8000	57.4	57.5	60.9	63.9	66.5	68.9	71	72.9	74.6	76.2	77.8	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
10000	53.3	53.4	56.8	59.8	62.4	64.8	66.9	68.8	70.5	72.1	73.7	74	74	74	74	74	74	74	74	74	74	74	74	74	74
12500	48.6	48.7	52.1	55.1	57.7	60.1	62.2	64.1	65.8	67.4	69	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
Σ	88.8	88.9	92.3	95.3	97.9	100.3	102.4	104.3	106	107.6	109.2	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5	109.5

Table 10 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM2

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	42.6	42.7	46.1	49.1	51.7	54.1	56.2	58.1	59.8	61.4	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3	62.3
32	48.3	48.4	51.8	54.8	57.4	59.8	61.9	63.8	65.5	67.1	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
40	54	54.1	57.5	60.5	63.1	65.5	67.6	69.5	71.2	72.8	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7	73.7
50	59.4	59.5	62.9	65.9	68.5	70.9	73	74.9	76.6	78.2	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
63	64.4	64.5	67.9	70.9	73.5	75.9	78	79.9	81.6	83.2	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
80	69.1	69.2	72.6	75.6	78.2	80.6	82.7	84.6	86.3	87.9	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
100	73.1	73.2	76.6	79.6	82.2	84.6	86.7	88.6	90.3	91.9	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
125	76.1	76.2	79.6	82.6	85.2	87.6	89.7	91.6	93.3	94.9	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
160	78.1	78.2	81.6	84.6	87.2	89.6	91.7	93.6	95.3	96.9	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8	97.8
200	79.3	79.4	82.8	85.8	88.4	90.8	92.9	94.8	96.5	98.1	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
250	80.1	80.2	83.6	86.6	89.2	91.6	93.7	95.6	97.3	98.9	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8
315	80.4	80.5	83.9	86.9	89.5	91.9	94	95.9	97.6	99.2	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1
400	80.3	80.4	83.8	86.8	89.4	91.8	93.9	95.8	97.5	99.1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
500	80.4	80.5	83.9	86.9	89.5	91.9	94	95.9	97.6	99.2	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1

630	80.2	80.3	83.7	86.7	89.3	91.7	93.8	95.7	97.4	99	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9
800	79.7	79.8	83.2	86.2	88.8	91.2	93.3	95.2	96.9	98.5	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1000	78.8	78.9	82.3	85.3	87.9	90.3	92.4	94.3	96	97.6	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
1250	77.6	77.7	81.1	84.1	86.7	89.1	91.2	93.1	94.8	96.4	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
1600	76.1	76.2	79.6	82.6	85.2	87.6	89.7	91.6	93.3	94.9	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
2000	74.4	74.5	77.9	80.9	83.5	85.9	88	89.9	91.6	93.2	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
2500	72.7	72.8	76.2	79.2	81.8	84.2	86.3	88.2	89.9	91.5	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
3150	70.5	70.6	74	77	79.6	82	84.1	86	87.7	89.3	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
4000	68.1	68.2	71.6	74.6	77.2	79.6	81.7	83.6	85.3	86.9	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
5000	65.4	65.5	68.9	71.9	74.5	76.9	79	80.9	82.6	84.2	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
6300	62.4	62.5	65.9	68.9	71.5	73.9	76	77.9	79.6	81.2	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1	82.1
8000	58.7	58.8	62.2	65.2	67.8	70.2	72.3	74.2	75.9	77.5	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
10000	54.5	54.6	58	61	63.6	66	68.1	70	71.7	73.3	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
12500	49.7	49.8	53.2	56.2	58.8	61.2	63.3	65.2	66.9	68.5	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
∑	90.3	90.4	93.8	96.8	99.4	101.8	103.9	105.8	107.5	109.1	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110

Table 11 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM2S

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	41.1	41.2	44.6	47.6	50.2	52.6	54.7	56.6	58.3	59.9	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8	60.8
32	46.8	46.9	50.3	53.3	55.9	58.3	60.4	62.3	64	65.6	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5
40	52.5	52.6	56	59	61.6	64	66.1	68	69.7	71.3	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
50	57.9	58	61.4	64.4	67	69.4	71.5	73.4	75.1	76.7	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6	77.6
63	62.9	63	66.4	69.4	72	74.4	76.5	78.4	80.1	81.7	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
80	67.6	67.7	71.1	74.1	76.7	79.1	81.2	83.1	84.8	86.4	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3

100	71.6	71.7	75.1	78.1	80.7	83.1	85.2	87.1	88.8	90.4	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
125	74.6	74.7	78.1	81.1	83.7	86.1	88.2	90.1	91.8	93.4	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
160	76.6	76.7	80.1	83.1	85.7	88.1	90.2	92.1	93.8	95.4	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
200	77.8	77.9	81.3	84.3	86.9	89.3	91.4	93.3	95	96.6	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
250	78.6	78.7	82.1	85.1	87.7	90.1	92.2	94.1	95.8	97.4	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
315	78.9	79	82.4	85.4	88	90.4	92.5	94.4	96.1	97.7	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
400	78.8	78.9	82.3	85.3	87.9	90.3	92.4	94.3	96	97.6	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
500	78.9	79	82.4	85.4	88	90.4	92.5	94.4	96.1	97.7	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6	98.6
630	78.7	78.8	82.2	85.2	87.8	90.2	92.3	94.2	95.9	97.5	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4	98.4
800	78.2	78.3	81.7	84.7	87.3	89.7	91.8	93.7	95.4	97	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
1000	77.3	77.4	80.8	83.8	86.4	88.8	90.9	92.8	94.5	96.1	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
1250	76.1	76.2	79.6	82.6	85.2	87.6	89.7	91.6	93.3	94.9	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
1600	74.6	74.7	78.1	81.1	83.7	86.1	88.2	90.1	91.8	93.4	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
2000	72.9	73	76.4	79.4	82	84.4	86.5	88.4	90.1	91.7	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
2500	71.2	71.3	74.7	77.7	80.3	82.7	84.8	86.7	88.4	90	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
3150	69	69.1	72.5	75.5	78.1	80.5	82.6	84.5	86.2	87.8	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
4000	66.6	66.7	70.1	73.1	75.7	78.1	80.2	82.1	83.8	85.4	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
5000	63.9	64	67.4	70.4	73	75.4	77.5	79.4	81.1	82.7	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6	83.6
6300	60.9	61	64.4	67.4	70	72.4	74.5	76.4	78.1	79.7	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
8000	57.2	57.3	60.7	63.7	66.3	68.7	70.8	72.7	74.4	76	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9	76.9
10000	53	53.1	56.5	59.5	62.1	64.5	66.6	68.5	70.2	71.8	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
12500	48.2	48.3	51.7	54.7	57.3	59.7	61.8	63.7	65.4	67	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
∑	88.8	88.9	92.3	95.3	97.9	100.3	102.4	104.3	106	107.6	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5	108.5

Table 12 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM3

Frequency [Hz]	Hub height wind speeds [m/s]																								
	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15-24
25	42.3	42.4	45.8	48.8	51.4	53.8	55.9	57.8	59.5	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
32	48.2	48.3	51.7	54.7	57.3	59.7	61.8	63.7	65.4	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
40	54	54.1	57.5	60.5	63.1	65.5	67.6	69.5	71.2	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
50	59.5	59.6	63	66	68.6	71	73.1	75	76.7	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
63	64.6	64.7	68.1	71.1	73.7	76.1	78.2	80.1	81.8	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3	83.3
80	69.3	69.4	72.8	75.8	78.4	80.8	82.9	84.8	86.5	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
100	73.3	73.4	76.8	79.8	82.4	84.8	86.9	88.8	90.5	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
125	76.2	76.3	79.7	82.7	85.3	87.7	89.8	91.7	93.4	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
160	78.1	78.2	81.6	84.6	87.2	89.6	91.7	93.6	95.3	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
200	79.3	79.4	82.8	85.8	88.4	90.8	92.9	94.8	96.5	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
250	80.1	80.2	83.6	86.6	89.2	91.6	93.7	95.6	97.3	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8	98.8
315	80.4	80.5	83.9	86.9	89.5	91.9	94	95.9	97.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
400	80.4	80.5	83.9	86.9	89.5	91.9	94	95.9	97.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
500	80.5	80.6	84	87	89.6	92	94.1	96	97.7	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2	99.2
630	80.4	80.5	83.9	86.9	89.5	91.9	94	95.9	97.6	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1	99.1
800	79.8	79.9	83.3	86.3	88.9	91.3	93.4	95.3	97	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5
1000	78.9	79	82.4	85.4	88	90.4	92.5	94.4	96.1	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
1250	77.7	77.8	81.2	84.2	86.8	89.2	91.3	93.2	94.9	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
1600	76.1	76.2	79.6	82.6	85.2	87.6	89.7	91.6	93.3	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
2000	74.5	74.6	78	81	83.6	86	88.1	90	91.7	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
2500	72.7	72.8	76.2	79.2	81.8	84.2	86.3	88.2	89.9	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
3150	70.5	70.6	74	77	79.6	82	84.1	86	87.7	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2	89.2

4000	68	68.1	71.5	74.5	77.1	79.5	81.6	83.5	85.2	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
5000	65.3	65.4	68.8	71.8	74.4	76.8	78.9	80.8	82.5	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84
6300	62.2	62.3	65.7	68.7	71.3	73.7	75.8	77.7	79.4	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
8000	58.4	58.5	61.9	64.9	67.5	69.9	72	73.9	75.6	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1	77.1
10000	54.1	54.2	57.6	60.6	63.2	65.6	67.7	69.6	71.3	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
12500	49.2	49.3	52.7	55.7	58.3	60.7	62.8	64.7	66.4	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
Σ	90.3	90.4	93.8	96.8	99.4	101.8	103.9	105.8	107.5	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109

Table 13 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM3S

Frequency [Hz]	**Hub height wind speeds [m/s]**																							
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	40.8	40.9	44.3	47.3	49.9	52.3	54.4	56.3	58	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
32	46.7	46.8	50.2	53.2	55.8	58.2	60.3	62.2	63.9	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
40	52.5	52.6	56	59	61.6	64	66.1	68	69.7	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2	71.2
50	58	58.1	61.5	64.5	67.1	69.5	71.6	73.5	75.2	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7	76.7
63	63.1	63.2	66.6	69.6	72.2	74.6	76.7	78.6	80.3	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8	81.8
80	67.8	67.9	71.3	74.3	76.9	79.3	81.4	83.3	85	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5	86.5
100	71.8	71.9	75.3	78.3	80.9	83.3	85.4	87.3	89	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
125	74.7	74.8	78.2	81.2	83.8	86.2	88.3	90.2	91.9	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
160	76.6	76.7	80.1	83.1	85.7	88.1	90.2	92.1	93.8	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
200	77.8	77.9	81.3	84.3	86.9	89.3	91.4	93.3	95	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
250	78.6	78.7	82.1	85.1	87.7	90.1	92.2	94.1	95.8	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
315	78.9	79	82.4	85.4	88	90.4	92.5	94.4	96.1	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
400	78.9	79	82.4	85.4	88	90.4	92.5	94.4	96.1	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
500	79	79.1	82.5	85.5	88.1	90.5	92.6	94.5	96.2	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7	97.7

630	78.9	79	82.4	85.4	88	90.4	92.5	94.4	96.1	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
800	78.3	78.4	81.8	84.8	87.4	89.8	91.9	93.8	95.5	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
1000	77.4	77.5	80.9	83.9	86.5	88.9	91	92.9	94.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
1250	76.2	76.3	79.7	82.7	85.3	87.7	89.8	91.7	93.4	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
1600	74.6	74.7	78.1	81.1	83.7	86.1	88.2	90.1	91.8	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
2000	73	73.1	76.5	79.5	82.1	84.5	86.6	88.5	90.2	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
2500	71.2	71.3	74.7	77.7	80.3	82.7	84.8	86.7	88.4	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
3150	69	69.1	72.5	75.5	78.1	80.5	82.6	84.5	86.2	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
4000	66.5	66.6	70	73	75.6	78	80.1	82	83.7	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
5000	63.8	63.9	67.3	70.3	72.9	75.3	77.4	79.3	81	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
6300	60.7	60.8	64.2	67.2	69.8	72.2	74.3	76.2	77.9	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
8000	56.9	57	60.4	63.4	66	68.4	70.5	72.4	74.1	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
10000	52.6	52.7	56.1	59.1	61.7	64.1	66.2	68.1	69.8	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3	71.3
12500	47.7	47.8	51.2	54.2	56.8	59.2	61.3	63.2	64.9	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4	66.4
∑	88.8	88.9	92.3	95.3	97.9	100.3	102.4	104.3	106	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5	107.5

Table 14 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM4

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	42.6	42.7	46.1	49.1	51.7	54.1	56.2	58.1	59.8	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3	60.3
32	48.4	48.5	51.9	54.9	57.5	59.9	62	63.9	65.6	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
40	54.2	54.3	57.7	60.7	63.3	65.7	67.8	69.7	71.4	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
50	59.6	59.7	63.1	66.1	68.7	71.1	73.2	75.1	76.8	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
63	64.6	64.7	68.1	71.1	73.7	76.1	78.2	80.1	81.8	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3	82.3
80	69.3	69.4	72.8	75.8	78.4	80.8	82.9	84.8	86.5	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87

100	73.2	73.3	76.7	79.7	82.3	84.7	86.8	88.7	90.4	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
125	76.1	76.2	79.6	82.6	85.2	87.6	89.7	91.6	93.3	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
160	77.9	78	81.4	84.4	87	89.4	91.5	93.4	95.1	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6	95.6
200	79.2	79.3	82.7	85.7	88.3	90.7	92.8	94.7	96.4	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
250	79.9	80	83.4	86.4	89	91.4	93.5	95.4	97.1	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6	97.6
315	80.2	80.3	83.7	86.7	89.3	91.7	93.8	95.7	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
400	80.2	80.3	83.7	86.7	89.3	91.7	93.8	95.7	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
500	80.3	80.4	83.8	86.8	89.4	91.8	93.9	95.8	97.5	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
630	80.2	80.3	83.7	86.7	89.3	91.7	93.8	95.7	97.4	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9	97.9
800	79.6	79.7	83.1	86.1	88.7	91.1	93.2	95.1	96.8	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3	97.3
1000	78.7	78.8	82.2	85.2	87.8	90.2	92.3	94.2	95.9	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
1250	77.6	77.7	81.1	84.1	86.7	89.1	91.2	93.1	94.8	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
1600	76	76.1	79.5	82.5	85.1	87.5	89.6	91.5	93.2	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
2000	74.4	74.5	77.9	80.9	83.5	85.9	88	89.9	91.6	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
2500	72.6	72.7	76.1	79.1	81.7	84.1	86.2	88.1	89.8	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
3150	70.4	70.5	73.9	76.9	79.5	81.9	84	85.9	87.6	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
4000	68	68.1	71.5	74.5	77.1	79.5	81.6	83.5	85.2	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7	85.7
5000	65.3	65.4	68.8	71.8	74.4	76.8	78.9	80.8	82.5	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
6300	62.2	62.3	65.7	68.7	71.3	73.7	75.8	77.7	79.4	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
8000	58.5	58.6	62	65	67.6	70	72.1	74	75.7	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
10000	54.2	54.3	57.7	60.7	63.3	65.7	67.8	69.7	71.4	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9	71.9
12500	49.4	49.5	52.9	55.9	58.5	60.9	63	64.9	66.6	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1	67.1
∑	90.3	90.4	93.8	96.8	99.4	101.8	103.9	105.8	107.5	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108

Table 15 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM4S

Frequency [Hz]	Hub height wind speeds [m/s]																								
	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15-24
25	41.1	41.2	44.6	47.6	50.2	52.6	54.7	56.6	58.3	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8	58.8
32	46.9	47	50.4	53.4	56	58.4	60.5	62.4	64.1	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6	64.6
40	52.7	52.8	56.2	59.2	61.8	64.2	66.3	68.2	69.9	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
50	58.1	58.2	61.6	64.6	67.2	69.6	71.7	73.6	75.3	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
63	63.1	63.2	66.6	69.6	72.2	74.6	76.7	78.6	80.3	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8	80.8
80	67.8	67.9	71.3	74.3	76.9	79.3	81.4	83.3	85	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5	85.5
100	71.7	71.8	75.2	78.2	80.8	83.2	85.3	87.2	88.9	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
125	74.6	74.7	78.1	81.1	83.7	86.1	88.2	90.1	91.8	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
160	76.4	76.5	79.9	82.9	85.5	87.9	90	91.9	93.6	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
200	77.7	77.8	81.2	84.2	86.8	89.2	91.3	93.2	94.9	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
250	78.4	78.5	81.9	84.9	87.5	89.9	92	93.9	95.6	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
315	78.7	78.8	82.2	85.2	87.8	90.2	92.3	94.2	95.9	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
400	78.7	78.8	82.2	85.2	87.8	90.2	92.3	94.2	95.9	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
500	78.8	78.9	82.3	85.3	87.9	90.3	92.4	94.3	96	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5	96.5
630	78.7	78.8	82.2	85.2	87.8	90.2	92.3	94.2	95.9	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
800	78.1	78.2	81.6	84.6	87.2	89.6	91.7	93.6	95.3	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
1000	77.2	77.3	80.7	83.7	86.3	88.7	90.8	92.7	94.4	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
1250	76.1	76.2	79.6	82.6	85.2	87.6	89.7	91.6	93.3	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
1600	74.5	74.6	78	81	83.6	86	88.1	90	91.7	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
2000	72.9	73	76.4	79.4	82	84.4	86.5	88.4	90.1	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
2500	71.1	71.2	74.6	77.6	80.2	82.6	84.7	86.6	88.3	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
3150	68.9	69	72.4	75.4	78	80.4	82.5	84.4	86.1	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6

4000	66.5	66.6	70	73	75.6	78	80.1	82	83.7	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
5000	63.8	63.9	67.3	70.3	72.9	75.3	77.4	79.3	81	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
6300	60.7	60.8	64.2	67.2	69.8	72.2	74.3	76.2	77.9	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4	78.4
8000	57	57.1	60.5	63.5	66.1	68.5	70.6	72.5	74.2	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
10000	52.7	52.8	56.2	59.2	61.8	64.2	66.3	68.2	69.9	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4	70.4
12500	47.9	48	51.4	54.4	57	59.4	61.5	63.4	65.1	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
Σ	88.8	88.9	92.3	95.3	97.9	100.3	102.4	104.3	106	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5	106.5

Table 16 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM5

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	42.2	42.3	45.7	48.7	51.3	53.7	55.8	57.7	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
32	48.2	48.3	51.7	54.7	57.3	59.7	61.8	63.7	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9	64.9
40	54.1	54.2	57.6	60.6	63.2	65.6	67.7	69.6	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8	70.8
50	59.6	59.7	63.1	66.1	68.7	71.1	73.2	75.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
63	64.7	64.8	68.2	71.2	73.8	76.2	78.3	80.2	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
80	69.3	69.4	72.8	75.8	78.4	80.8	82.9	84.8	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
100	73.2	73.3	76.7	79.7	82.3	84.7	86.8	88.7	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
125	76	76.1	79.5	82.5	85.1	87.5	89.6	91.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
160	77.8	77.9	81.3	84.3	86.9	89.3	91.4	93.3	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
200	79	79.1	82.5	85.5	88.1	90.5	92.6	94.5	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7	95.7
250	79.7	79.8	83.2	86.2	88.8	91.2	93.3	95.2	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4	96.4
315	80	80.1	83.5	86.5	89.1	91.5	93.6	95.5	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7	96.7
400	80.1	80.2	83.6	86.6	89.2	91.6	93.7	95.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
500	80.3	80.4	83.8	86.8	89.4	91.8	93.9	95.8	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97

630	80.1	80.2	83.6	86.6	89.2	91.6	93.7	95.6	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8	96.8
800	79.6	79.7	83.1	86.1	88.7	91.1	93.2	95.1	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3	96.3
1000	78.6	78.7	82.1	85.1	87.7	90.1	92.2	94.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
1250	77.5	77.6	81	84	86.6	89	91.1	93	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
1600	75.9	76	79.4	82.4	85	87.4	89.5	91.4	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
2000	74.2	74.3	77.7	80.7	83.3	85.7	87.8	89.7	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
2500	72.4	72.5	75.9	78.9	81.5	83.9	86	87.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
3150	70.2	70.3	73.7	76.7	79.3	81.7	83.8	85.7	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9	86.9
4000	67.7	67.8	71.2	74.2	76.8	79.2	81.3	83.2	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
5000	65	65.1	68.5	71.5	74.1	76.5	78.6	80.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
6300	61.8	61.9	65.3	68.3	70.9	73.3	75.4	77.3	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
8000	57.9	58	61.4	64.4	67	69.4	71.5	73.4	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6	74.6
10000	53.6	53.7	57.1	60.1	62.7	65.1	67.2	69.1	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
12500	48.7	48.8	52.2	55.2	57.8	60.2	62.3	64.2	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4	65.4
∑	90.3	90.4	93.8	96.8	99.4	101.8	103.9	105.8	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107	107

Table 17 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM5S

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	40.7	40.8	44.2	47.2	49.8	52.2	54.3	56.2	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
32	46.7	46.8	50.2	53.2	55.8	58.2	60.3	62.2	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
40	52.6	52.7	56.1	59.1	61.7	64.1	66.2	68.1	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3	69.3
50	58.1	58.2	61.6	64.6	67.2	69.6	71.7	73.6	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
63	63.2	63.3	66.7	69.7	72.3	74.7	76.8	78.7	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9	79.9
80	67.8	67.9	71.3	74.3	76.9	79.3	81.4	83.3	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5

100	71.7	71.8	75.2	78.2	80.8	83.2	85.3	87.2	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4	88.4
125	74.5	74.6	78	81	83.6	86	88.1	90	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
160	76.3	76.4	79.8	82.8	85.4	87.8	89.9	91.8	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
200	77.5	77.6	81	84	86.6	89	91.1	93	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2
250	78.2	78.3	81.7	84.7	87.3	89.7	91.8	93.7	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
315	78.5	78.6	82	85	87.6	90	92.1	94	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
400	78.6	78.7	82.1	85.1	87.7	90.1	92.2	94.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
500	78.8	78.9	82.3	85.3	87.9	90.3	92.4	94.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
630	78.6	78.7	82.1	85.1	87.7	90.1	92.2	94.1	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3	95.3
800	78.1	78.2	81.6	84.6	87.2	89.6	91.7	93.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
1000	77.1	77.2	80.6	83.6	86.2	88.6	90.7	92.6	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
1250	76	76.1	79.5	82.5	85.1	87.5	89.6	91.5	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
1600	74.4	74.5	77.9	80.9	83.5	85.9	88	89.9	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
2000	72.7	72.8	76.2	79.2	81.8	84.2	86.3	88.2	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
2500	70.9	71	74.4	77.4	80	82.4	84.5	86.4	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
3150	68.7	68.8	72.2	75.2	77.8	80.2	82.3	84.2	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4	85.4
4000	66.2	66.3	69.7	72.7	75.3	77.7	79.8	81.7	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
5000	63.5	63.6	67	70	72.6	75	77.1	79	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
6300	60.3	60.4	63.8	66.8	69.4	71.8	73.9	75.8	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77
8000	56.4	56.5	59.9	62.9	65.5	67.9	70	71.9	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1	73.1
10000	52.1	52.2	55.6	58.6	61.2	63.6	65.7	67.6	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8	68.8
12500	47.2	47.3	50.7	53.7	56.3	58.7	60.8	62.7	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9	63.9
∑	88.8	88.9	92.3	95.3	97.9	100.3	102.4	104.3	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5	105.5

Table 18 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM6

Frequency [Hz]	Hub height wind speeds [m/s]																								
	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15-24
25	42.7	42.8	46.2	49.2	51.8	54.2	56.3	58.2	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4	58.4
32	48.6	48.7	52.1	55.1	57.7	60.1	62.2	64.1	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3	64.3
40	54.4	54.5	57.9	60.9	63.5	65.9	68	69.9	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1	70.1
50	59.9	60	63.4	66.4	69	71.4	73.5	75.4	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
63	64.9	65	68.4	71.4	74	76.4	78.5	80.4	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6	80.6
80	69.49	69.59	72.99	75.99	78.59	80.99	83.09	84.99	85.19	85.19	85.19	85.19	85.19	85.19	85.19	85.19	85.19	85.19	85.19	85.19	85.19	85.19	85.19	85.19	85.19	85.19
100	73.3	73.4	76.8	79.8	82.4	84.8	86.9	88.8	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
125	76.1	76.2	79.6	82.6	85.2	87.6	89.7	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
160	77.9	78	81.4	84.4	87	89.4	91.5	93.4	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
200	79.1	79.2	82.6	85.6	88.2	90.6	92.7	94.6	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
250	79.8	79.9	83.3	86.3	88.9	91.3	93.4	95.3	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5	95.5
315	80.1	80.2	83.6	86.6	89.2	91.6	93.7	95.6	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8	95.8
400	80.2	80.3	83.7	86.7	89.3	91.7	93.8	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
500	80.4	80.5	83.9	86.9	89.5	91.9	94	95.9	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1	96.1
630	80.2	80.3	83.7	86.7	89.3	91.7	93.8	95.7	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9	95.9
800	79.7	79.8	83.2	86.2	88.8	91.2	93.3	95.2	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
1000	78.7	78.8	82.2	85.2	87.8	90.2	92.3	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
1250	77.6	77.7	81.1	84.1	86.7	89.1	91.2	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
1600	76	76.1	79.5	82.5	85.1	87.5	89.6	91.5	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
2000	74.4	74.5	77.9	80.9	83.5	85.9	88	89.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
2500	72.6	72.7	76.1	79.1	81.7	84.1	86.2	88.1	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
3150	70.4	70.5	73.9	76.9	79.5	81.9	84	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1

4000	68	68.1	71.5	74.5	77.1	79.5	81.6	83.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
5000	65.2	65.3	68.7	71.7	74.3	76.7	78.8	80.7	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9	80.9
6300	62.1	62.2	65.6	68.6	71.2	73.6	75.7	77.6	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8	77.8
8000	58.2	58.3	61.7	64.7	67.3	69.7	71.8	73.7	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
10000	54	54.1	57.5	60.5	63.1	65.5	67.6	69.5	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7	69.7
12500	49.1	49.2	52.6	55.6	58.2	60.6	62.7	64.6	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8	64.8
Σ	90.3	90.4	93.8	96.8	99.4	101.8	103.9	105.8	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106

Table 19 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM6S

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	41.2	41.3	44.7	47.7	50.3	52.7	54.8	56.7	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9	56.9
32	47.1	47.2	50.6	53.6	56.2	58.6	60.7	62.6	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8	62.8
40	52.9	53	56.4	59.4	62	64.4	66.5	68.4	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6	68.6
50	58.4	58.5	61.9	64.9	67.5	69.9	72	73.9	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
63	63.4	63.5	66.9	69.9	72.5	74.9	77	78.9	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1	79.1
80	67.99	68.09	71.49	74.49	77.09	79.49	81.59	83.49	83.69	83.69	83.69	83.69	83.69	83.69	83.69	83.69	83.69	83.69	83.69	83.69	83.69	83.69	83.69	83.69	83.69	83.69
100	71.8	71.9	75.3	78.3	80.9	83.3	85.4	87.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
125	74.6	74.7	78.1	81.1	83.7	86.1	88.2	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
160	76.4	76.5	79.9	82.9	85.5	87.9	90	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
200	77.6	77.7	81.1	84.1	86.7	89.1	91.2	93.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
250	78.3	78.4	81.8	84.8	87.4	89.8	91.9	93.8	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
315	78.6	78.7	82.1	85.1	87.7	90.1	92.2	94.1	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3	94.3
400	78.7	78.8	82.2	85.2	87.8	90.2	92.3	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4

500	78.9	79	82.4	85.4	88	90.4	92.5	94.4	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6	94.6
630	78.7	78.8	82.2	85.2	87.8	90.2	92.3	94.2	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4	94.4
800	78.2	78.3	81.7	84.7	87.3	89.7	91.8	93.7	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
1000	77.2	77.3	80.7	83.7	86.3	88.7	90.8	92.7	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9	92.9
1250	76.1	76.2	79.6	82.6	85.2	87.6	89.7	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
1600	74.5	74.6	78	81	83.6	86	88.1	90	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
2000	72.9	73	76.4	79.4	82	84.4	86.5	88.4	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
2500	71.1	71.2	74.6	77.6	80.2	82.6	84.7	86.6	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
3150	68.9	69	72.4	75.4	78	80.4	82.5	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
4000	66.5	66.6	70	73	75.6	78	80.1	82	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
5000	63.7	63.8	67.2	70.2	72.8	75.2	77.3	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
6300	60.6	60.7	64.1	67.1	69.7	72.1	74.2	76.1	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
8000	56.7	56.8	60.2	63.2	65.8	68.2	70.3	72.2	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
10000	52.5	52.6	56	59	61.6	64	66.1	68	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2	68.2
12500	47.6	47.7	51.1	54.1	56.7	59.1	61.2	63.1	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3	63.3
∑	88.8	88.9	92.3	95.3	97.9	100.3	102.4	104.3	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5	104.5

Table 20 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM7

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	42.4	42.5	45.9	48.9	51.5	53.9	56	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1	57.1
32	48.5	48.6	52	55	57.6	60	62.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
40	54.5	54.6	58	61	63.6	66	68.1	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2	69.2
50	60	60.1	63.5	66.5	69.1	71.5	73.6	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
63	65.1	65.2	68.6	71.6	74.2	76.6	78.7	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8	79.8

80	69.7	69.8	73.2	76.2	78.8	81.2	83.3	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4	84.4
100	73.5	73.6	77	80	82.6	85	87.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
125	76.2	76.3	79.7	82.7	85.3	87.7	89.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
160	77.9	78	81.4	84.4	87	89.4	91.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
200	79.1	79.2	82.6	85.6	88.2	90.6	92.7	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8	93.8
250	79.8	79.9	83.3	86.3	88.9	91.3	93.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
315	80.2	80.3	83.7	86.7	89.3	91.7	93.8	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9	94.9
400	80.3	80.4	83.8	86.8	89.4	91.8	93.9	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95	95
500	80.5	80.6	84	87	89.6	92	94.1	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2	95.2
630	80.4	80.5	83.9	86.9	89.5	91.9	94	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1	95.1
800	79.8	79.9	83.3	86.3	88.9	91.3	93.4	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5	94.5
1000	78.8	78.9	82.3	85.3	87.9	90.3	92.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
1250	77.7	77.8	81.2	84.2	86.8	89.2	91.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
1600	76.1	76.2	79.6	82.6	85.2	87.6	89.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.8
2000	74.4	74.5	77.9	80.9	83.5	85.9	88	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
2500	72.6	72.7	76.1	79.1	81.7	84.1	86.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
3150	70.3	70.4	73.8	76.8	79.4	81.8	83.9	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85	85
4000	67.8	67.9	71.3	74.3	76.9	79.3	81.4	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5	82.5
5000	65	65.1	68.5	71.5	74.1	76.5	78.6	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7	79.7
6300	61.8	61.9	65.3	68.3	70.9	73.3	75.4	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
8000	57.8	57.9	61.3	64.3	66.9	69.3	71.4	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5	72.5
10000	53.4	53.5	56.9	59.9	62.5	64.9	67	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1	68.1
12500	48.5	48.6	52	55	57.6	60	62.1	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2	63.2
Σ	90.3	90.4	93.8	96.8	99.4	101.8	103.9	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105

Table 21 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM7S

Frequency [Hz]	Hub height wind speeds [m/s]																								
	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15-24
25	40.9	41	44.4	47.4	50	52.4	54.5	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6	55.6
32	47	47.1	50.5	53.5	56.1	58.5	60.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
40	53	53.1	56.5	59.5	62.1	64.5	66.6	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
50	58.5	58.6	62	65	67.6	70	72.1	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
63	63.6	63.7	67.1	70.1	72.7	75.1	77.2	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3	78.3
80	68.2	68.3	71.7	74.7	77.3	79.7	81.8	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9	82.9
100	72	72.1	75.5	78.5	81.1	83.5	85.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
125	74.7	74.8	78.2	81.2	83.8	86.2	88.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
160	76.4	76.5	79.9	82.9	85.5	87.9	90	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
200	77.6	77.7	81.1	84.1	86.7	89.1	91.2	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3
250	78.3	78.4	81.8	84.8	87.4	89.8	91.9	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
315	78.7	78.8	82.2	85.2	87.8	90.2	92.3	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4	93.4
400	78.8	78.9	82.3	85.3	87.9	90.3	92.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
500	79	79.1	82.5	85.5	88.1	90.5	92.6	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7	93.7
630	78.9	79	82.4	85.4	88	90.4	92.5	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6	93.6
800	78.3	78.4	81.8	84.8	87.4	89.8	91.9	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
1000	77.3	77.4	80.8	83.8	86.4	88.8	90.9	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
1250	76.2	76.3	79.7	82.7	85.3	87.7	89.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9
1600	74.6	74.7	78.1	81.1	83.7	86.1	88.2	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
2000	72.9	73	76.4	79.4	82	84.4	86.5	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
2500	71.1	71.2	74.6	77.6	80.2	82.6	84.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
3150	68.8	68.9	72.3	75.3	77.9	80.3	82.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5

4000	66.3	66.4	69.8	72.8	75.4	77.8	79.9	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
5000	63.5	63.6	67	70	72.6	75	77.1	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2	78.2
6300	60.3	60.4	63.8	66.8	69.4	71.8	73.9	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
8000	56.3	56.4	59.8	62.8	65.4	67.8	69.9	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71
10000	51.9	52	55.4	58.4	61	63.4	65.5	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
12500	47	47.1	50.5	53.5	56.1	58.5	60.6	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7	61.7
Σ	88.8	88.9	92.3	95.3	97.9	100.3	102.4	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5	103.5

Table 22 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM8

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	42.8	42.9	46.3	49.3	51.9	54.3	56.4	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5	56.5
32	48.9	49	52.4	55.4	58	60.4	62.5	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6	62.6
40	54.8	54.9	58.3	61.3	63.9	66.3	68.4	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5	68.5
50	60.2	60.3	63.7	66.7	69.3	71.7	73.8	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9	73.9
63	65.3	65.4	68.8	71.8	74.4	76.8	78.9	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79
80	69.8	69.9	73.3	76.3	78.9	81.3	83.4	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
100	73.6	73.7	77.1	80.1	82.7	85.1	87.2	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
125	76.3	76.4	79.8	82.8	85.4	87.8	89.9	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
160	77.9	78	81.4	84.4	87	89.4	91.5	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
200	79.1	79.2	82.6	85.6	88.2	90.6	92.7	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
250	79.8	79.9	83.3	86.3	88.9	91.3	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
315	80.2	80.3	83.7	86.7	89.3	91.7	93.8	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9	93.9
400	80.3	80.4	83.8	86.8	89.4	91.8	93.9	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94
500	80.5	80.6	84	87	89.6	92	94.1	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2	94.2

630	80.4	80.5	83.9	86.9	89.5	91.9	94	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1	94.1
800	79.8	79.9	83.3	86.3	88.9	91.3	93.4	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5	93.5
1000	78.9	79	82.4	85.4	88	90.4	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
1250	77.7	77.8	81.2	84.2	86.8	89.2	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
1600	76.1	76.2	79.6	82.6	85.2	87.6	89.7	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
2000	74.5	74.6	78	81	83.6	86	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
2500	72.6	72.7	76.1	79.1	81.7	84.1	86.2	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
3150	70.5	70.6	74	77	79.6	82	84.1	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
4000	68	68.1	71.5	74.5	77.1	79.5	81.6	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7
5000	65.2	65.3	68.7	71.7	74.3	76.7	78.8	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
6300	62	62.1	65.5	68.5	71.1	73.5	75.6	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
8000	58.1	58.2	61.6	64.6	67.2	69.6	71.7	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
10000	53.7	53.8	57.2	60.2	62.8	65.2	67.3	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
12500	48.8	48.9	52.3	55.3	57.9	60.3	62.4	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
∑	90.3	90.4	93.8	96.8	99.4	101.8	103.9	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104

Table 23 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM8S

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	41.3	41.4	44.8	47.8	50.4	52.8	54.9	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
32	47.4	47.5	50.9	53.9	56.5	58.9	61	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1	61.1
40	53.3	53.4	56.8	59.8	62.4	64.8	66.9	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
50	58.7	58.8	62.2	65.2	67.8	70.2	72.3	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4	72.4
63	63.8	63.9	67.3	70.3	72.9	75.3	77.4	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
80	68.3	68.4	71.8	74.8	77.4	79.8	81.9	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82

100	72.1	72.2	75.6	78.6	81.2	83.6	85.7	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
125	74.8	74.9	78.3	81.3	83.9	86.3	88.4	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5	88.5
160	76.4	76.5	79.9	82.9	85.5	87.9	90	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
200	77.6	77.7	81.1	84.1	86.7	89.1	91.2	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
250	78.3	78.4	81.8	84.8	87.4	89.8	91.9	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
315	78.7	78.8	82.2	85.2	87.8	90.2	92.3	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4	92.4
400	78.8	78.9	82.3	85.3	87.9	90.3	92.4	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
500	79	79.1	82.5	85.5	88.1	90.5	92.6	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7	92.7
630	78.9	79	82.4	85.4	88	90.4	92.5	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
800	78.3	78.4	81.8	84.8	87.4	89.8	91.9	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92
1000	77.4	77.5	80.9	83.9	86.5	88.9	91	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
1250	76.2	76.3	79.7	82.7	85.3	87.7	89.8	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
1600	74.6	74.7	78.1	81.1	83.7	86.1	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
2000	73	73.1	76.5	79.5	82.1	84.5	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
2500	71.1	71.2	74.6	77.6	80.2	82.6	84.7	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
3150	69	69.1	72.5	75.5	78.1	80.5	82.6	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
4000	66.5	66.6	70	73	75.6	78	80.1	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
5000	63.7	63.8	67.2	70.2	72.8	75.2	77.3	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4	77.4
6300	60.5	60.6	64	67	69.6	72	74.1	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
8000	56.6	56.7	60.1	63.1	65.7	68.1	70.2	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3	70.3
10000	52.2	52.3	55.7	58.7	61.3	63.7	65.8	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
12500	47.3	47.4	50.8	53.8	56.4	58.8	60.9	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
∑	88.8	88.9	92.3	95.3	97.9	100.3	102.4	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5	102.5

Table 24 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM9

Frequency [Hz]	Hub height wind speeds [m/s]																								
	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15-24
25	42.4	42.5	45.9	48.9	51.5	53.9	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
32	48.7	48.8	52.2	55.2	57.8	60.2	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4	61.4
40	54.7	54.8	58.2	61.2	63.8	66.2	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4	67.4
50	60.3	60.4	63.8	66.8	69.4	71.8	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
63	65.4	65.5	68.9	71.9	74.5	76.9	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1	78.1
80	70	70.1	73.5	76.5	79.1	81.5	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
100	73.6	73.7	77.1	80.1	82.7	85.1	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3	86.3
125	76.3	76.4	79.8	82.8	85.4	87.8	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
160	77.9	78	81.4	84.4	87	89.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
200	79	79.1	82.5	85.5	88.1	90.5	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
250	79.8	79.9	83.3	86.3	88.9	91.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
315	80.1	80.2	83.6	86.6	89.2	91.6	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8	92.8
400	80.3	80.4	83.8	86.8	89.4	91.8	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93	93
500	80.6	80.7	84.1	87.1	89.7	92.1	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3	93.3
630	80.5	80.6	84	87	89.6	92	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2	93.2
800	79.8	79.9	83.3	86.3	88.9	91.3	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5	92.5
1000	78.9	79	82.4	85.4	88	90.4	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6
1250	77.7	77.8	81.2	84.2	86.8	89.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
1600	76.1	76.2	79.6	82.6	85.2	87.6	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
2000	74.4	74.5	77.9	80.9	83.5	85.9	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
2500	72.5	72.6	76	79	81.6	84	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
3150	70.3	70.4	73.8	76.8	79.4	81.8	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83

4000	67.7	67.8	71.2	74.2	76.8	79.2	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
5000	64.8	64.9	68.3	71.3	73.9	76.3	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5	77.5
6300	61.5	61.6	65	68	70.6	73	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2	74.2
8000	57.5	57.6	61	64	66.6	69	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
10000	53	53.1	56.5	59.5	62.1	64.5	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7	65.7
12500	48	48.1	51.5	54.5	57.1	59.5	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
Σ	90.3	90.4	93.8	96.8	99.4	101.8	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103

Table 25 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM9S

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	40.9	41	44.4	47.4	50	52.4	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6	53.6
32	47.2	47.3	50.7	53.7	56.3	58.7	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
40	53.2	53.3	56.7	59.7	62.3	64.7	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9	65.9
50	58.8	58.9	62.3	65.3	67.9	70.3	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5	71.5
63	63.9	64	67.4	70.4	73	75.4	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
80	68.5	68.6	72	75	77.6	80	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2	81.2
100	72.1	72.2	75.6	78.6	81.2	83.6	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8	84.8
125	74.8	74.9	78.3	81.3	83.9	86.3	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
160	76.4	76.5	79.9	82.9	85.5	87.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
200	77.5	77.6	81	84	86.6	89	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
250	78.3	78.4	81.8	84.8	87.4	89.8	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
315	78.6	78.7	82.1	85.1	87.7	90.1	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
400	78.8	78.9	82.3	85.3	87.9	90.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5
500	79.1	79.2	82.6	85.6	88.2	90.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8

630	79	79.1	82.5	85.5	88.1	90.5	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7	91.7
800	78.3	78.4	81.8	84.8	87.4	89.8	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91
1000	77.4	77.5	80.9	83.9	86.5	88.9	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
1250	76.2	76.3	79.7	82.7	85.3	87.7	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
1600	74.6	74.7	78.1	81.1	83.7	86.1	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3	87.3
2000	72.9	73	76.4	79.4	82	84.4	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6	85.6
2500	71	71.1	74.5	77.5	80.1	82.5	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7	83.7
3150	68.8	68.9	72.3	75.3	77.9	80.3	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
4000	66.2	66.3	69.7	72.7	75.3	77.7	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9	78.9
5000	63.3	63.4	66.8	69.8	72.4	74.8	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76
6300	60	60.1	63.5	66.5	69.1	71.5	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7	72.7
8000	56	56.1	59.5	62.5	65.1	67.5	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7
10000	51.5	51.6	55	58	60.6	63	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2	64.2
12500	46.5	46.6	50	53	55.6	58	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
∑	88.8	88.9	92.3	95.3	97.9	100.3	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5

Table 26 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM10

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	42.8	42.9	46.3	49.3	51.9	54.3	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5	54.5
32	49	49.1	52.5	55.5	58.1	60.5	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7	60.7
40	55	55.1	58.5	61.5	64.1	66.5	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
50	60.5	60.6	64	67	69.6	72	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2	72.2
63	65.5	65.6	69	72	74.6	77	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
80	70	70.1	73.5	76.5	79.1	81.5	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7	81.7

100	73.6	73.7	77.1	80.1	82.7	85.1	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
125	76.2	76.3	79.7	82.7	85.3	87.7	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
160	77.8	77.9	81.3	84.3	86.9	89.3	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
200	78.9	79	82.4	85.4	88	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
250	79.7	79.8	83.2	86.2	88.8	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
315	80.1	80.2	83.6	86.6	89.2	91.6	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
400	80.2	80.3	83.7	86.7	89.3	91.7	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9	91.9
500	80.5	80.6	84	87	89.6	92	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2	92.2
630	80.4	80.5	83.9	86.9	89.5	91.9	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1	92.1
800	79.7	79.8	83.2	86.2	88.8	91.2	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4
1000	78.8	78.9	82.3	85.3	87.9	90.3	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5
1250	77.6	77.7	81.1	84.1	86.7	89.1	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3	89.3
1600	76	76.1	79.5	82.5	85.1	87.5	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7	87.7
2000	74.4	74.5	77.9	80.9	83.5	85.9	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1	86.1
2500	72.5	72.6	76	79	81.6	84	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2	84.2
3150	70.3	70.4	73.8	76.8	79.4	81.8	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
4000	67.7	67.8	71.2	74.2	76.8	79.2	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
5000	64.9	65	68.4	71.4	74	76.4	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6	76.6
6300	61.6	61.7	65.1	68.1	70.7	73.1	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3	73.3
8000	57.7	57.8	61.2	64.2	66.8	69.2	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4
10000	53.3	53.4	56.8	59.8	62.4	64.8	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
12500	48.3	48.4	51.8	54.8	57.4	59.8	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
Σ	90.3	90.4	93.8	96.8	99.4	101.8	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102

Table 27 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM10S

Frequency [Hz]	Hub height wind speeds [m/s]																								
	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15-24
25	41.3	41.4	44.8	47.8	50.4	52.8	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
32	47.5	47.6	51	54	56.6	59	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2	59.2
40	53.5	53.6	57	60	62.6	65	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2	65.2
50	59	59.1	62.5	65.5	68.1	70.5	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7	70.7
63	64	64.1	67.5	70.5	73.1	75.5	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7	75.7
80	68.5	68.6	72	75	77.6	80	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2	80.2
100	72.1	72.2	75.6	78.6	81.2	83.6	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8	83.8
125	74.7	74.8	78.2	81.2	83.8	86.2	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4	86.4
160	76.3	76.4	79.8	82.8	85.4	87.8	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
200	77.4	77.5	80.9	83.9	86.5	88.9	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
250	78.2	78.3	81.7	84.7	87.3	89.7	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
315	78.6	78.7	82.1	85.1	87.7	90.1	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
400	78.7	78.8	82.2	85.2	87.8	90.2	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
500	79	79.1	82.5	85.5	88.1	90.5	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7	90.7
630	78.9	79	82.4	85.4	88	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
800	78.2	78.3	81.7	84.7	87.3	89.7	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.9
1000	77.3	77.4	80.8	83.8	86.4	88.8	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
1250	76.1	76.2	79.6	82.6	85.2	87.6	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8	87.8
1600	74.5	74.6	78	81	83.6	86	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2	86.2
2000	72.9	73	76.4	79.4	82	84.4	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6	84.6
2500	71	71.1	74.5	77.5	80.1	82.5	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7	82.7
3150	68.8	68.9	72.3	75.3	77.9	80.3	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5	80.5

4000	66.2	66.3	69.7	72.7	75.3	77.7	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9	77.9
5000	63.4	63.5	66.9	69.9	72.5	74.9	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
6300	60.1	60.2	63.6	66.6	69.2	71.6	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8	71.8
8000	56.2	56.3	59.7	62.7	65.3	67.7	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9	67.9
10000	51.8	51.9	55.3	58.3	60.9	63.3	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
12500	46.8	46.9	50.3	53.3	55.9	58.3	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5	58.5
Σ	88.8	88.9	92.3	95.3	97.9	100.3	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5

Table 28 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM11

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	42.3	42.4	45.8	48.8	51.4	52.9	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
32	48.8	48.9	52.3	55.3	57.9	59.4	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5	59.5
40	54.9	55	58.4	61.4	64	65.5	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
50	60.48	60.58	63.98	66.98	69.58	71.08	71.18	71.18	71.18	71.18	71.18	71.18	71.18	71.18	71.18	71.18	71.18	71.18	71.18	71.18	71.18	71.18	71.18	71.18	71.18	71.18
63	65.6	65.7	69.1	72.1	74.7	76.2	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3	76.3
80	70	70.1	73.5	76.5	79.1	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
100	73.6	73.7	77.1	80.1	82.7	84.2	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
125	76.1	76.2	79.6	82.6	85.2	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
160	77.6	77.7	81.1	84.1	86.7	88.2	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
200	78.8	78.9	82.3	85.3	87.9	89.4	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5	89.5
250	79.5	79.6	83	86	88.6	90.1	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2	90.2
315	79.9	80	83.4	86.4	89	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
400	80.2	80.3	83.7	86.7	89.3	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9	90.9

500	80.5	80.6	84	87	89.6	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
630	80.4	80.5	83.9	86.9	89.5	91	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
800	79.7	79.8	83.2	86.2	88.8	90.3	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
1000	78.7	78.8	82.2	85.2	87.8	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
1250	77.5	77.6	81	84	86.6	88.1	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2
1600	75.9	76	79.4	82.4	85	86.5	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6	86.6
2000	74.2	74.3	77.7	80.7	83.3	84.8	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
2500	72.3	72.4	75.8	78.8	81.4	82.9	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
3150	70	70.1	73.5	76.5	79.1	80.6	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
4000	67.3	67.4	70.8	73.8	76.4	77.9	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78	78
5000	64.4	64.5	67.9	70.9	73.5	75	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1	75.1
6300	61	61.1	64.5	67.5	70.1	71.6	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7	71.7
8000	56.9	57	60.4	63.4	66	67.5	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6	67.6
10000	52.4	52.5	55.9	58.9	61.5	63	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1	63.1
12500	47.2	47.3	50.7	53.7	56.3	57.8	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9	57.9
∑	90.3	90.4	93.8	96.8	99.4	100.9	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101

Table 29 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM11S

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	40.8	40.9	44.3	47.3	49.9	51.4	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5	51.5
32	47.3	47.4	50.8	53.8	56.4	57.9	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
40	53.4	53.5	56.9	59.9	62.5	64	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
50	58.98	59.08	62.48	65.48	68.08	69.58	69.68	69.68	69.68	69.68	69.68	69.68	69.68	69.68	69.68	69.68	69.68	69.68	69.68	69.68	69.68	69.68	69.68	69.68	69.68	69.68

63	64.1	64.2	67.6	70.6	73.2	74.7	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
80	68.5	68.6	72	75	77.6	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
100	72.1	72.2	75.6	78.6	81.2	82.7	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8	82.8
125	74.6	74.7	78.1	81.1	83.7	85.2	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3	85.3
160	76.1	76.2	79.6	82.6	85.2	86.7	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8	86.8
200	77.3	77.4	80.8	83.8	86.4	87.9	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88
250	78	78.1	81.5	84.5	87.1	88.6	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
315	78.4	78.5	81.9	84.9	87.5	89	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1	89.1
400	78.7	78.8	82.2	85.2	87.8	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
500	79	79.1	82.5	85.5	88.1	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.7
630	78.9	79	82.4	85.4	88	89.5	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
800	78.2	78.3	81.7	84.7	87.3	88.8	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9
1000	77.2	77.3	80.7	83.7	86.3	87.8	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
1250	76	76.1	79.5	82.5	85.1	86.6	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7	86.7
1600	74.4	74.5	77.9	80.9	83.5	85	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
2000	72.7	72.8	76.2	79.2	81.8	83.3	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4	83.4
2500	70.8	70.9	74.3	77.3	79.9	81.4	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5	81.5
3150	68.5	68.6	72	75	77.6	79.1	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2	79.2
4000	65.8	65.9	69.3	72.3	74.9	76.4	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5	76.5
5000	62.9	63	66.4	69.4	72	73.5	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6	73.6
6300	59.5	59.6	63	66	68.6	70.1	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
8000	55.4	55.5	58.9	61.9	64.5	66	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
10000	50.9	51	54.4	57.4	60	61.5	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6	61.6
12500	45.7	45.8	49.2	52.2	54.8	56.3	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4	56.4
Σ	88.8	88.9	92.3	95.3	97.9	99.4	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5

Table 30 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM12

Frequency [Hz]	Hub height wind speeds [m/s]																								
	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15-24
25	42.8	42.9	46.3	49.3	51.9	52.6	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5	52.5
32	49.2	49.3	52.7	55.7	58.3	59	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9	58.9
40	55.3	55.4	58.8	61.8	64.4	65.1	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65
50	60.9	61	64.4	67.4	70	70.7	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6
63	65.9	66	69.4	72.4	75	75.7	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6	75.6
80	70.3	70.4	73.8	76.8	79.4	80.1	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
100	73.8	73.9	77.3	80.3	82.9	83.6	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5	83.5
125	76.3	76.4	79.8	82.8	85.4	86.1	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
160	77.8	77.9	81.3	84.3	86.9	87.6	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5
200	79	79.1	82.5	85.5	88.1	88.8	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7	88.7
250	79.7	79.8	83.2	86.2	88.8	89.5	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.4
315	80.1	80.2	83.6	86.6	89.2	89.9	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8	89.8
400	80.4	80.5	83.9	86.9	89.5	90.2	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
500	80.7	80.8	84.2	87.2	89.8	90.5	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4
630	80.6	80.7	84.1	87.1	89.7	90.4	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3	90.3
800	79.9	80	83.4	86.4	89	89.7	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6
1000	78.9	79	82.4	85.4	88	88.7	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
1250	77.7	77.8	81.2	84.2	86.8	87.5	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4	87.4
1600	76.1	76.2	79.6	82.6	85.2	85.9	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8	85.8
2000	74.4	74.5	77.9	80.9	83.5	84.2	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1	84.1
2500	72.5	72.6	76	79	81.6	82.3	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2	82.2
3150	70.3	70.4	73.8	76.8	79.4	80.1	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80

4000	67.6	67.7	71.1	74.1	76.7	77.4	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3
5000	64.7	64.8	68.2	71.2	73.8	74.5	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4	74.4
6300	61.4	61.5	64.9	67.9	70.5	71.2	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
8000	57.3	57.4	60.8	63.8	66.4	67.1	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67
10000	52.8	52.9	56.3	59.3	61.9	62.6	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
12500	47.7	47.8	51.2	54.2	56.8	57.5	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
Σ	90.3	90.4	93.8	96.8	99.4	100.1	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100

Table 31 One-third octave sound power spectrum for maximum sound power level (dBA) – SRM12S

Frequency [Hz]	**Hub height wind speeds [m/s]**																								
	2.5	**3**	**3.5**	**4**	**4.5**	**5**	**5.5**	**6**	**6.5**	**7**	**7.5**	**8**	**8.5**	**9**	**9.5**	**10**	**10.5**	**11**	**11.5**	**12**	**12.5**	**13**	**13.5**	**14**	**14.5**	**15-24**
25	41.3	41.4	44.8	47.8	50.4	51.1	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51
32	47.7	47.8	51.2	54.2	56.8	57.5	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4	57.4
40	53.8	53.9	57.3	60.3	62.9	63.6	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
50	59.4	59.5	62.9	65.9	68.5	69.2	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1	69.1
63	64.4	64.5	67.9	70.9	73.5	74.2	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1	74.1
80	68.8	68.9	72.3	75.3	77.9	78.6	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
100	72.3	72.4	75.8	78.8	81.4	82.1	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
125	74.8	74.9	78.3	81.3	83.9	84.6	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5	84.5
160	76.3	76.4	79.8	82.8	85.4	86.1	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86	86
200	77.5	77.6	81	84	86.6	87.3	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2	87.2
250	78.2	78.3	81.7	84.7	87.3	88	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
315	78.6	78.7	82.1	85.1	87.7	88.4	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3	88.3
400	78.9	79	82.4	85.4	88	88.7	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6	88.6
500	79.2	79.3	82.7	85.7	88.3	89	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9	88.9

630	79.1	79.2	82.6	85.6	88.2	88.9	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8	88.8
800	78.4	78.5	81.9	84.9	87.5	88.2	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1	88.1
1000	77.4	77.5	80.9	83.9	86.5	87.2	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1	87.1
1250	76.2	76.3	79.7	82.7	85.3	86	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9
1600	74.6	74.7	78.1	81.1	83.7	84.4	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
2000	72.9	73	76.4	79.4	82	82.7	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6	82.6
2500	71	71.1	74.5	77.5	80.1	80.8	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
3150	68.8	68.9	72.3	75.3	77.9	78.6	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5	78.5
4000	66.1	66.2	69.6	72.6	75.2	75.9	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8	75.8
5000	63.2	63.3	66.7	69.7	72.3	73	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
6300	59.9	60	63.4	66.4	69	69.7	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6	69.6
8000	55.8	55.9	59.3	62.3	64.9	65.6	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5	65.5
10000	51.3	51.4	54.8	57.8	60.4	61.1	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61
12500	46.2	46.3	49.7	52.7	55.3	56	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9	55.9
Σ	88.8	88.9	92.3	95.3	97.9	98.6	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5	98.5

Note:

1. When the blade configuration includes serrations, the sound power level can be reduced by 1.5dB. Correspondingly, the average sound power level for various wind speeds can be reduced by 1.5dB at each wind speed.
2. Uncertainty should be considered additionally as the one shown in Table 3 for each wind speed.