

Project:

JM_Rahkakuru

Licensed user:

Course Registration

Time-limited until December 19, 2024

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Calculated:

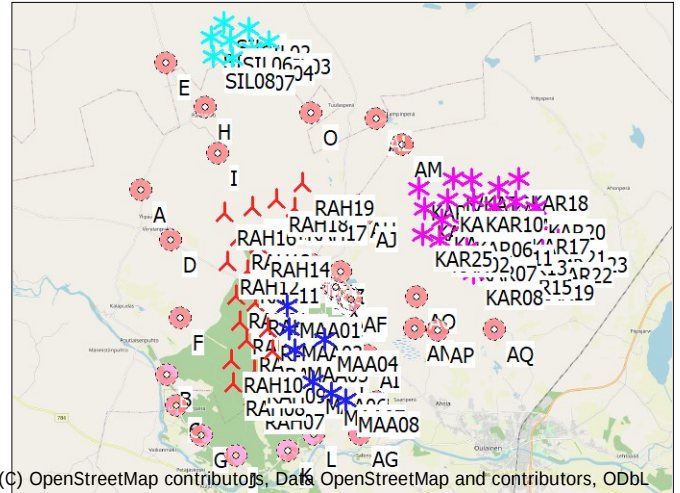
2024-12-10 8.17/4.1.254

DECIBEL - Main Result

Calculation: Rahkakuru VE1

Calculation is done according to Finnish guideline " Ympäristöhallinnon ohjeita 2 | 2014 " from the Ministry of the Environment of Finland

All coordinates are in
Finish TM ETRS-TM35FIN-ETRS89



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Scale 1:250 000

New WTG Existing WTG Noise sensitive area

WTGs

	East	North	Z	Row data/Description	WTG type			Power, rated [kW]	Rotor diameter [m]	Hub height [m]	Noise data Creator Name	Wind speed [m/s]	LwA_ref [dB(A)]	Uncertainty [dB(A)]
					Valid	Manufact.	Type-generator							
KAR01	391 621	7 136 578	95.8	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR02	392 086	7 135 509	89.9	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR03	392 176	7 136 174	95.4	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR04	392 411	7 136 855	100.2	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR05	392 584	7 137 549	97.9	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR06	392 862	7 136 012	97.1	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR07	392 991	7 135 196	85.6	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR08	393 169	7 134 397	84.8	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR09	393 225	7 137 485	100.9	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR10	393 274	7 136 804	103.5	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR11	393 539	7 135 673	94.8	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR12	393 961	7 136 571	99.0	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR13	394 020	7 135 350	95.1	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR14	394 108	7 137 181	104.9	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR15	394 116	7 134 704	90.6	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR16	394 647	7 136 711	99.9	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR17	394 785	7 136 028	98.2	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR18	394 797	7 137 442	107.5	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR19	394 884	7 134 490	98.6	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR20	395 301	7 136 470	106.1	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR21	395 328	7 135 628	99.9	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR22	395 495	7 135 044	97.6	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR23	396 014	7 135 354	105.3	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR24	391 461	7 137 229	89.8	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
KAR25	391 535	7 135 725	87.9	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	168.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
MAA01	386 945	7 133 532	65.4	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	148.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
MAA03	386 991	7 132 770	65.4	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	148.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
MAA04	388 157	7 132 333	69.1	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	148.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
MAA05	387 150	7 132 058	63.6	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	148.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
MAA06	387 713	7 130 974	63.5	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	148.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
MAA07	388 293	7 130 582	69.7	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	148.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
MAA08	388 770	7 130 349	69.8	NORDEX N163/5.X 5900 163.0 IOI hu...Yes	NORDEX	N163/5.X-5 900	5 900	163.0	148.0	USER	Third octave sound power levels Nordex N163/5.X	8.0	107.2	2.0
RAH01	385 246	7 133 910	60.2	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH02	385 350	7 133 066	59.7	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH03	385 895	7 133 668	62.9	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH04	385 575	7 132 407	58.1	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH05	386 295	7 132 775	62.5	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH06	386 426	7 132 037	60.6	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH07	385 658	7 130 531	63.0	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH08	385 064	7 131 010	59.5	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH09	385 767	7 131 392	61.0	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH10	385 011	7 131 774	59.7	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH11	385 680	7 134 747	62.8	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH12	385 008	7 135 034	58.6	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH13	385 426	7 135 824	62.7	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH14	386 035	7 135 582	62.1	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH15	385 902	7 136 810	70.8	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH16	384 981	7 136 654	59.8	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH17	387 306	7 136 734	81.9	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH18	386 694	7 137 064	83.1	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
RAH19	387 577	7 137 548	84.6	VESTAS V172-7.2 7200 172.0 IOI hu...Yes	VESTAS	V172-7.2-7 200	7 200	172.0	166.0	USER	Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz	8.0	106.9	2.0
SIL01	385 200	7 142 980	93.4	VESTAS V126-3.3 GridStream-3300 ... Yes	VESTAS	V126-3.3 GridStream-3 300	3 300	126.0	147.0	USER	V126-3.3/3.45MW Third Octaves according to General Specification	8.0	108.5	2.0

Project:

JM_Rahkakuru

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Course Registration

Time-limited until December 19, 2024

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Calculated:

2024-12-10 8.17/4.1.254

DECIBEL - Main Result

Calculation: Rahkakuru VE1

Sound level

Noise sensitive area		East	North	Z	Immission height	Demands		Sound level		WTG+Uncertainty margin	Distance to noise demand	Demands fulfilled ?	
No.	Name					Noise	From WTGs	Uncertainty margin				Noise	2 dB penalty applied for one or more WTGs
					[m]	[m]	[dB(A)]	[dB(A)]	[dB]		[dB(A)]	[m]	
A	Noise sensitive point: Finnish normal frequency - User defined (23)	382 223	7 137 522	52.2	4.0	40.0	30.8	2.0		32.8	1 839	Yes	No
B	Noise sensitive point: Finnish normal frequency - User defined (2)	382 854	7 131 381	51.9	4.0	40.0	34.1	2.0		36.1	868	Yes	No
C	Noise sensitive point: Finnish normal frequency - User defined (5)	383 130	7 130 359	53.5	4.0	40.0	33.8	2.0		35.8	857	Yes	No
D	Noise sensitive point: Finnish normal frequency - User defined (24)	383 153	7 135 815	56.9	4.0	40.0	35.2	2.0		37.2	632	Yes	No
E	Noise sensitive point: Finnish normal frequency - User defined (35)	383 223	7 141 682	67.3	4.0	40.0	34.9	2.0		36.9	430	Yes	No
F	Noise sensitive point: Finnish normal frequency - User defined (1)	383 356	7 133 262	50.5	4.0	40.0	36.4	2.0		38.4	390	Yes	No
G	Noise sensitive point: Finnish normal frequency - User defined (4)	383 910	7 129 300	54.0	4.0	40.0	33.6	2.0		35.6	863	Yes	No
H	Noise sensitive point: Finnish normal frequency - User defined (22)	384 450	7 140 172	76.3	4.0	40.0	34.9	2.0		36.9	550	Yes	No
I	Noise sensitive point: Finnish normal frequency - User defined (20)	384 842	7 138 658	72.0	4.0	40.0	34.8	2.0		36.8	768	Yes	No
J	Noise sensitive point: Finnish normal frequency - User defined (3)	385 076	7 128 605	58.0	4.0	40.0	33.2	2.0		35.2	937	Yes	No
K	Noise sensitive point: Finnish normal frequency - User defined (13)	386 782	7 128 705	56.3	4.0	40.0	33.9	2.0		35.9	986	Yes	No
L	Noise sensitive point: Finnish normal frequency - User defined (12)	387 695	7 129 224	60.9	4.0	40.0	36.3	2.0		38.3	301	Yes	No
M	Noise sensitive point: Finnish normal frequency - User defined (42)	387 879	7 134 678	70.4	4.0	40.0	38.2	2.0		40.2	-83	No	No
N	Noise sensitive point: Finnish normal frequency - User defined (40)	387 883	7 134 812	72.1	4.0	40.0	38.1	2.0		40.1	-41	No	No
O	Noise sensitive point: Finnish normal frequency - User defined (34)	387 977	7 139 845	88.5	4.0	40.0	33.2	2.0		35.2	1 340	Yes	No
P	Noise sensitive point: Finnish normal frequency - User defined (41)	387 993	7 134 748	69.2	4.0	40.0	37.9	2.0		39.9	46	Yes	No
Q	Noise sensitive point: Finnish normal frequency - User defined (44)	388 095	7 134 418	69.1	4.0	40.0	38.0	2.0		40.0	7	Yes	No
R	Noise sensitive point: Finnish normal frequency - User defined (43)	388 101	7 134 436	68.3	4.0	40.0	37.9	2.0		39.9	21	Yes	No
S	Noise sensitive point: Finnish normal frequency - User defined (49)	388 130	7 134 642	66.7	4.0	40.0	37.6	2.0		39.6	135	Yes	No
T	Noise sensitive point: Finnish normal frequency - User defined (36)	388 130	7 134 642	66.7	4.0	40.0	37.6	2.0		39.6	135	Yes	No
U	Noise sensitive point: Finnish normal frequency - User defined (50)	388 520	7 134 052	68.2	4.0	40.0	37.3	2.0		39.3	201	Yes	No
V	Noise sensitive point: Finnish normal frequency - User defined (38)	388 562	7 133 980	70.6	4.0	40.0	37.3	2.0		39.3	199	Yes	No
W	Noise sensitive point: Finnish normal frequency - User defined (6)	388 562	7 133 980	70.6	4.0	40.0	37.3	2.0		39.3	199	Yes	No
X	Noise sensitive point: Finnish normal frequency - User defined (51)	388 579	7 134 044	67.0	4.0	40.0	37.1	2.0		39.1	247	Yes	No
Y	Noise sensitive point: Finnish normal frequency - User defined (10)	388 750	7 131 552	69.0	4.0	40.0	40.8	2.0		42.8	-553	No	No
Z	Noise sensitive point: Finnish normal frequency - User defined (37)	388 787	7 134 583	68.1	4.0	40.0	36.2	2.0		38.2	695	Yes	No
AA	Noise sensitive point: Finnish normal frequency - User defined (48)	388 978	7 133 482	67.1	4.0	40.0	37.0	2.0		39.0	248	Yes	No
AB	Noise sensitive point: Finnish normal frequency - User defined (29)	388 978	7 133 482	67.1	4.0	40.0	37.0	2.0		39.0	248	Yes	No
AC	Noise sensitive point: Finnish normal frequency - User defined (47)	388 989	7 133 714	68.9	4.0	40.0	36.5	2.0		38.5	400	Yes	No
AD	Noise sensitive point: Finnish normal frequency - User defined (45)	389 000	7 133 768	67.9	4.0	40.0	36.4	2.0		38.4	441	Yes	No
AE	Noise sensitive point: Finnish normal frequency - User defined (46)	389 018	7 133 770	68.4	4.0	40.0	36.4	2.0		38.4	456	Yes	No
AF	Noise sensitive point: Finnish normal frequency - User defined (39)	389 065	7 133 651	69.2	4.0	40.0	36.4	2.0		38.4	421	Yes	No
AG	Noise sensitive point: Finnish normal frequency - User defined (11)	389 203	7 129 165	61.3	4.0	40.0	35.4	2.0		37.4	345	Yes	No
AH	Noise sensitive point: Finnish normal frequency - User defined (18)	389 414	7 136 756	82.9	4.0	40.0	36.2	2.0		38.2	772	Yes	No
AI	Noise sensitive point: Finnish normal frequency - User defined (52)	389 554	7 131 763	65.7	4.0	40.0	36.7	2.0		38.7	278	Yes	No
AJ	Noise sensitive point: Finnish normal frequency - User defined (19)	389 614	7 136 401	78.5	4.0	40.0	36.4	2.0		38.4	564	Yes	No
AK	Noise sensitive point: Finnish normal frequency - User defined (9)	389 817	7 130 233	65.5	4.0	40.0	36.8	2.0		38.8	144	Yes	No
AL	Noise sensitive point: Finnish normal frequency - User defined (33)	390 110	7 139 602	97.7	4.0	40.0	32.2	2.0		34.2	1 644	Yes	No
AM	Noise sensitive point: Finnish normal frequency - User defined (32)	390 931	7 138 729	103.0	4.0	40.0	35.5	2.0		37.5	475	Yes	No
AN	Noise sensitive point: Finnish normal frequency - User defined (30)	391 159	7 132 612	80.3	4.0	40.0	33.5	2.0		35.5	1 498	Yes	No
AO	Noise sensitive point: Finnish normal frequency - User defined (7)	391 278	7 133 649	77.1	4.0	40.0	35.7	2.0		37.7	574	Yes	No
AP	Noise sensitive point: Finnish normal frequency - User defined (8)	391 925	7 132 522	73.0	4.0	40.0	33.5	2.0		35.5	1 149	Yes	No
AQ	Noise sensitive point: Finnish normal frequency - User defined (14)	393 819	7 132 491	76.0	4.0	40.0	34.1	2.0		36.1	806	Yes	No

Distances (m)

WTG	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
KAR01	9446	10192	10524	8502	9828	8906	10603	8021	7091	10316	9242	8337	4197	4134	4894	4063	4135	4120	3992	3992	3999	4014
KAR02	10067	10113	10331	8938	10801	9015	10266	8947	7899	9839	8628	7667	4288	4260	5973	4163	4137	4127	4050	4050	3852	3842
KAR03	10044	10482	10753	9030	10512	9289	10750	8699	7744	10378	9214	8270	4550	4503	5577	4419	4443	4430	4326	4326	4227	4228
KAR04	10210	11014	11328	9316	10379	9742	11373	8625	7781	11040	9905	8971	5028	4967	5348	4895	4956	4942	4819	4819	4795	4804
KAR05	10361	11521	11877	9589	10233	10175	11970	8547	7821	11678	10578	9655	5512	5439	5147	5378	5473	5458	5318	5318	5361	5377
KAR06	10746	11028	11254	9711	11183	9896	11188	9385	8446	10747	9506	8531	5158	5121	6209	5030	5026	5015	4926	4926	4764	4756
KAR07	11017	10831	10983	9857	11725	9827	10827	9885	8854	10300	9893	7982	5138	5122	6837	5018	4957	4948	4892	4892	4615	4593
KAR08	11384	10747	10820	10116	12330	9878	10568	10459	9355	9951	8554	7531	5297	5302	7527	5188	5074	5068	5045	5045	4661	4626
KAR09	11002	12034	12356	10209	10847	10735	12400	9177	8465	12053	10891	9941	6038	5973	5754	5905	5977	5962	5834	5834	5824	5834
KAR10	11075	11747	12018	10169	11172	10532	11999	9445	8634	11595	10380	9412	5799	5747	6107	5667	5702	5689	5580	5580	5493	5494
KAR11	11466	11515	11687	10387	11939	10465	11547	10142	9196	11027	9707	8703	5747	5721	6952	5623	5587	5577	5506	5506	5274	5257
KAR12	11777	12260	12486	10834	11893	11109	12405	10170	9355	11934	10650	9657	6370	6327	6821	6240	6249	6237	6142	6142	5996	5989
KAR13	11996	11851	11979	10877	12517	10867	11782	10716	9556	11203	9826	8806	6177	6160	7531	6057	5998	5989	5932	5932	5651	5628
KAR14	11890	12661	12925	11040	11779	11444	12888	10111	9383	12455	11204	10220	6713	6660	6684	6581	6617	6604	6495	6495	6404	6404
KAR15	12223	11742	11814	11019	12937	10856	11548	11105	10082	10905	9475	8442	6237	6234	8007	6123	6028	6021	5986	5986	5634	5601
KAR16	12451	12942	13152	11529	12459	11806	13046	10769	9997	12543	11223	10217	7067	7025	7369	6937	6942	6930	6837	6837	6679	6670
KAR17	12652	12801	12956	11634	12875	11757	12782	11139	10288	12216	10842	9820	7035	7006	7810	6910	6879	6868	6796	6796	6566	6549
KAR18	12575	13393	13648	11757	12326	12181	13594	10701	10029	13138	11857	10862	7450	7397	7231	7318	7353	7340	7231	7231	7134	7132
KAR19	13019	12425	12458	11805	13701	11593	12139	11881	10873	11439	9956	8912	7007	7008	8739	6896	6789	6783	6756	6756	6379	6343
KAR20	13121	13447	13619	12165	13155	12368	13459	11465	10686	12900	11527	10505	7635	7601	8064	7508	7492	7482	7400	7400	7199	7185
KAR21	13241	13177	13287	12176	13535	12204	13054	11789	10916	12427	10999	9964	7509	7489	8474	7388	7333	7324	7265	7265	6988	6964
KAR22	13502	13161	13222	12366	13952	12269	12930	12177	11250	12249	10775	9732	7625	7615	8920	7508	7426	7419	7376	7376	7045	7015
KAR23	13961	13747	13818	12869	14271	12830	13533	12528	11651	12853	11378	10334	8163	8149	9206	8044	7974	7966	7916	7916	7606	7578
KAR24	9243	10406	10798	8427	9365	9024	10949	7604	6772	10731	9724	8847	4398	4317	4356	4264	4385	4369	4217	4217	4329	4355
KAR25	9484	9707	9971	8382	10226	8542	9971	8365	7308	9614	8478	7551	3803	3764	5443	3674	3680	3668	3573	3573	3448	3448
MAA01	6183	4622	4962	4426	8960	3600	5207	7093	5542	5270	4830	4372	1478	1588	6397	1605	1452	1468	1624	1624	1659	1677
MAA03	6732	4364	4551	4899	9676	3668	4640	7826	6269	4584	4070	3615	2105	2229	7143	2218	1984	2002	2192	2192	1996	1983

DECIBEL - Main Result

Calculation: Rahkakuru VE1

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WTG	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
MAA04	7882	5388	5400	6096	10571	4890	5218	8671	7141	4837	3881	3144	2361	2494	7513	2420	2086	2103	2309	2309	1757	1696
MAA05	7358	4349	4364	5486	10395	3981	4254	8551	6993	4028	3373	2886	2720	2851	7831	2819	2543	2562	2764	2764	2420	2385
MAA06	8545	4876	4624	6650	11611	4921	4155	9759	8203	3545	2453	1750	3707	3842	8875	3784	3465	3484	3692	3692	3182	3124
MAA07	9220	5497	5167	7335	12203	5617	4566	10331	8783	3777	2410	1484	4116	4250	9268	4176	3841	3858	4063	4063	3477	3408
MAA08	9712	6006	5640	7838	12618	6148	4972	10731	9192	4086	2580	1556	4420	4551	9529	4467	4125	4142	4341	4341	3712	3637
RAH01	4710	3481	4133	2830	8031	1998	4799	6312	4766	5308	5427	5287	2743	2787	6533	2872	2894	2903	2976	2976	3277	3316
RAH02	5444	3012	3501	3519	8875	2004	4032	7162	5616	4470	4590	4501	2999	3077	7270	3133	3060	3073	3196	3196	3320	3339
RAH03	5323	3805	4312	3482	8448	2571	4797	6662	5100	5129	5042	4795	2226	2294	6518	2360	2324	2336	2438	2438	2653	2685
RAH04	6115	2908	3189	4181	9569	2378	3525	7846	6294	3835	3894	3824	3235	3334	7816	3366	3224	3240	3395	3395	3373	3376
RAH05	6254	3713	3981	4372	9422	2979	4214	7623	6060	4345	4099	3817	2476	2583	7267	2603	2437	2454	2618	2618	2566	2567
RAH06	6910	3632	3698	4998	10163	3306	3717	8371	6808	3688	3351	3086	3014	3135	7960	3131	2908	2926	3113	3113	2906	2887
RAH07	7789	2930	2533	5848	11414	3572	2138	9716	8168	2012	2144	2420	4704	4825	9598	4820	4588	4606	4797	4797	4538	4509
RAH08	7105	2241	2040	5171	10830	2826	2063	9182	7652	2405	2875	3180	4624	4734	9303	4749	4561	4579	4753	4753	4604	4589
RAH09	7081	2913	2832	5138	10600	3051	2797	8878	7325	2872	2873	2901	3906	4022	8737	4027	3818	3836	4019	4019	3828	3809
RAH10	6388	2193	2353	4448	10068	2226	2708	8416	6887	3170	3544	3702	4081	4181	8598	4212	4062	4079	4238	4238	4184	4180
RAH11	4433	4395	5075	2743	7358	2758	5727	5562	4000	6172	6142	5879	2200	2204	5591	2313	2437	2441	2452	2452	2924	2982
RAH12	3735	4241	5038	2012	6884	2423	5838	5168	3628	6430	6573	6401	2893	2884	5653	2999	3148	3150	3146	3146	3647	3706
RAH13	3625	5134	5927	2273	6259	3294	6697	4456	2894	7228	7247	6979	2708	2657	4762	2783	3017	3014	2951	2951	3566	3637
RAH14	4277	5270	5976	2891	6717	3544	6631	4856	3300	7043	6918	6571	2054	2002	4684	2128	2366	2363	2296	2296	2919	2991
RAH15	3748	6226	7021	2923	5560	4367	7769	3662	2131	8247	8153	7795	2908	2814	3676	2937	3245	3236	3108	3108	3803	3883
RAH16	2892	5686	6561	2011	5327	3761	7431	3557	2009	8050	8151	7910	3508	3437	4377	3564	3834	3828	3737	3737	4393	4469
RAH17	5144	6963	7621	4253	6415	5259	8173	4469	3127	8430	8046	7520	2135	2006	3182	2102	2447	2432	2248	2248	2944	3026
RAH18	4495	6859	7593	3755	5777	5060	8248	3833	2444	8613	8360	7904	2665	2546	3062	2655	2994	2981	2815	2815	3523	3605
RAH19	5354	7768	8453	4751	6004	6016	9026	4082	2952	9287	8879	8325	2886	2753	2331	2831	3172	3156	2958	2958	3621	3701
SIL01	6218	11834	12789	7452	2365	9892	13740	2907	4336	14376	14363	13980	8724	8597	4189	8693	9038	9023	8837	8837	9526	9607
SIL02	6453	11792	12713	7494	2989	9845	13604	3009	4248	14167	14056	13620	8274	8144	3496	8232	8577	8561	8368	8368	9041	9122
SIL03	6510	11540	12427	7354	3503	9601	13261	3059	4051	13759	13566	13086	7687	7555	2752	7636	7979	7962	7765	7765	8423	8502
SIL04	5970	11181	12093	6919	2871	9235	12971	2509	3644	13523	13406	12970	7632	7502	2950	7592	7937	7921	7729	7729	8406	8486
SIL05	5578	11278	12247	6871	1723	9341	13226	2346	3843	13899	13946	13601	8429	8306	4188	8407	8751	8737	8558	8558	9256	9338
SIL06	5782	11273	12217	6920	2260	9328	13150	2384	3748	13767	13736	13347	8088	7961	3624	8057	8402	8387	8202	8202	8891	8972
SIL07	5336	10718	11655	6390	2213	8772	12576	1889	3181	13184	13149	12762	7516	7390	3199	7487	7832	7817	7634	7634	8326	8408
SIL08	5041	10662	11626	6267	1564	8722	12597	1727	3210	13267	13315	12977	7831	7710	3787	7813	8156	8142	7966	7966	8667	8749
WTG	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	
KAR01	4014	3959	5789	3466	4070	4070	3890	3842	3829	3886	7798	2214	5239	2015	6596	3381	2259	3993	2949	4067	4641	
KAR02	3842	3801	5176	3427	3710	3710	3579	3543	3527	3547	6969	2948	4521	2628	5743	4545	3421	3042	2028	2991	3480	
KAR03	4228	4180	5754	3744	4180	4180	4026	3984	3969	4006	7614	2822	5131	2572	6392	4003	2842	3705	2680	3660	4033	
KAR04	4804	4753	6445	4278	4813	4813	4645	4600	4586	4633	8333	2998	5838	2833	7111	3584	2388	4424	3400	4360	4586	
KAR05	5377	5322	7118	4818	5435	5435	5256	5209	5196	5252	9040	3267	6531	3184	7821	3215	2031	5139	4113	5070	5207	
KAR06	4756	4714	6067	4319	4635	4635	4503	4466	4450	4471	7764	3527	5384	3271	6532	4524	3333	3803	2845	3613	3649	
KAR07	4593	4560	5592	4249	4364	4364	4267	4239	4222	4219	7122	3902	4857	3585	5891	5265	4090	3168	2308	2878	2829	
KAR08	4626	4604	5255	4386	4289	4289	4235	4216	4198	4171	6564	4435	4471	4082	5343	6039	4878	2687	2033	2248	2012	
KAR09	5834	5782	7432	5303	5836	5836	5671	5627	5613	5657	9241	3880	6798	3770	8012	3767	2610	5293	4302	5130	5029	
KAR10	5494	5446	6932	5007	5430	5430	5283	5242	5227	5259	8656	3860	6265	3682	7424	4224	3032	4696	3733	4489	4347	
KAR11	5257	5221	6319	4876	5060	5060	4954	4922	4906	4910	7820	4264	5582	3992	6591	5215	4018	3878	3034	3540	3194	
KAR12	5989	5946	7236	5543	5863	5863	5734	5698	5682	5701	8803	4550	6522	4350	7572	4901	3720	4851	3967	4532	4083	
KAR13	5628	5596	6497	5289	5377	5377	5290	5263	5246	5238	7840	4815	5728	4529	6621	5777	4578	3960	3227	3519	2866	
KAR14	6404	6357	7772	5922	6324	6324	6182	6143	6128	6156	9398	4713	7077	4561	8166	4674	3534	5438	4526	5145	4699	
KAR15	5601	5576	6224	5331	5281	5281	5221	5201	5183	5160	7404	5130	5427	4811	6202	6328	5133	3623	3028	3092	2233	
KAR16	6670	6628	7836	6235	6524	6524	6403	6368	6351	6366	9305	5233	7100	5042	8080	5380	4229	5383				

DECIBEL - Main Result

Calculation: Rahkakuru VE1

...continued from previous page

WTG	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ
RAH08	4589	4643	3725	5160	4629	4629	4766	4806	4822	4794	4531	7207	4553	7055	4816	9964	9696	6302	6751	7026	8879
RAH09	3809	3865	2987	4393	3831	3831	3972	4012	4028	3997	4095	6486	3805	6316	4213	9288	8972	5528	5955	6261	8127
RAH10	4180	4229	3745	4706	4319	4319	4426	4460	4476	4467	4938	6649	4543	6527	5047	9342	9133	6204	6541	6955	8837
RAH11	2982	2983	4431	3111	3532	3532	3467	3461	3478	3558	6601	4240	4890	4268	6123	6572	6590	5880	5704	6630	8446
RAH12	3706	3706	5111	3806	4263	4263	4194	4188	4204	4286	7214	4731	5600	4805	6795	6848	6981	6610	6421	7359	9171
RAH13	3637	3621	5413	3582	4255	4255	4141	4123	4138	4238	7656	4096	5790	4228	7109	6018	6225	6571	6243	7290	9031
RAH14	2991	2973	4859	2927	3615	3615	3495	3476	3490	3593	7156	3577	5193	3672	6551	5724	5820	5922	5588	6638	8375
RAH15	3883	3849	5980	3644	4532	4532	4372	4341	4353	4470	8327	3513	6229	3735	7654	5050	5383	6727	6236	7394	9019
RAH16	4469	4445	6343	4333	5103	5103	4971	4947	4961	5069	8597	4435	6696	4640	8038	5916	6301	7383	6977	8081	9770
RAH17	3026	2976	5380	2611	3657	3657	3458	3415	3423	3550	7803	2109	5455	2332	6969	4011	4138	5642	5029	6251	7773
RAH18	3605	3560	5883	3246	4248	4248	4061	4022	4031	4156	8288	2738	6023	2994	7511	4255	4552	6305	5716	6928	8466
RAH19	3701	3645	6110	3202	4300	4300	4086	4038	4043	4172	8539	2001	6113	2338	7650	3261	3556	6099	5375	6646	8034
SIL01	9607	9554	11967	9131	10222	10222	10011	9964	9970	10098	14383	7517	12032	7922	13557	5959	7135	11958	11136	12434	13576
SIL02	9122	9065	11517	8614	9720	9720	9503	9454	9458	9586	13944	6881	11532	7288	13071	5156	6342	11358	10503	11803	12880
SIL03	8502	8443	10917	7971	9084	9084	8863	8813	8817	8944	13347	6157	10894	6563	12440	4348	5536	10648	9772	11071	12110
SIL04	8486	8431	10876	7986	9088	9088	8873	8825	8829	8957	13302	6300	10901	6706	12437	4749	5914	10761	9921	11221	12341
SIL05	9338	9287	11660	8892	9964	9964	9760	9716	9722	9850	14062	7407	11767	7808	13276	6103	7250	11789	11004	12296	13514
SIL06	8972	8919	11330	8499	9588	9588	9378	9332	9337	9466	13747	6914	11398	7319	12922	5483	6641	11341	10528	11825	12994
SIL07	8408	8355	10756	7944	9027	9027	8819	8773	8779	8907	13170	6414	10835	6816	12355	5161	6290	10813	10017	11311	12518
SIL08	8749	8699	11055	8316	9380	9380	9178	9135	9142	9269	13452	6903	11177	7300	12680	5795	6909	11243	10480	11767	13027

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Assumptions

Calculated L(DW) = LWA,ref + K + Dc - (Adiv + Aatm + Agr + Abar + Amisc) - Cmet
(when calculated with ground attenuation, then Dc = Domega)

LWA,ref:	Sound pressure level at WTG
K:	Pure tone
Dc:	Directivity correction
Adiv:	the attenuation due to geometrical divergence
Aatm:	the attenuation due to atmospheric absorption
Agr:	the attenuation due to ground effect
Abar:	the attenuation due to a barrier
Amisc:	the attenuation due to miscellaneous other effects
Cmet:	Meteorological correction

Calculation Results

Noise sensitive area: A Noise sensitive point: Finnish normal frequency - User defined (23)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	9 446	9 448	0	6.15	2.00	8.15	107.2	0.00	90.51	-	-	0.00	0.00	-
KAR02	10 067	10 069	0	5.37	2.00	7.37	107.2	0.00	91.06	-	-	0.00	0.00	-
KAR03	10 044	10 046	0	5.40	2.00	7.40	107.2	0.00	91.04	-	-	0.00	0.00	-
KAR04	10 210	10 212	0	5.19	2.00	7.19	107.2	0.00	91.18	-	-	0.00	0.00	-
KAR05	10 361	10 363	0	5.02	2.00	7.02	107.2	0.00	91.31	-	-	0.00	0.00	-
KAR06	10 746	10 748	0	4.57	2.00	6.57	107.2	0.00	91.63	-	-	0.00	0.00	-
KAR07	11 017	11 018	0	4.27	2.00	6.27	107.2	0.00	91.84	-	-	0.00	0.00	-
KAR08	11 384	11 386	0	3.86	2.00	5.86	107.2	0.00	92.13	-	-	0.00	0.00	-
KAR09	11 002	11 004	0	4.28	2.00	6.28	107.2	0.00	91.83	-	-	0.00	0.00	-
KAR10	11 075	11 077	0	4.20	2.00	6.20	107.2	0.00	91.89	-	-	0.00	0.00	-
KAR11	11 466	11 468	0	3.78	2.00	5.78	107.2	0.00	92.19	-	-	0.00	0.00	-
KAR12	11 777	11 779	0	3.45	2.00	5.45	107.2	0.00	92.42	-	-	0.00	0.00	-
KAR13	11 996	11 997	0	3.23	2.00	5.23	107.2	0.00	92.58	-	-	0.00	0.00	-
KAR14	11 890	11 892	0	3.33	2.00	5.33	107.2	0.00	92.51	-	-	0.00	0.00	-
KAR15	12 223	12 224	0	3.00	2.00	5.00	107.2	0.00	92.74	-	-	0.00	0.00	-
KAR16	12 451	12 453	0	2.77	2.00	4.77	107.2	0.00	92.91	-	-	0.00	0.00	-
KAR17	12 652	12 654	0	2.57	2.00	4.57	107.2	0.00	93.04	-	-	0.00	0.00	-
KAR18	12 575	12 576	0	2.65	2.00	4.65	107.2	0.00	92.99	-	-	0.00	0.00	-
KAR19	13 019	13 021	0	2.22	2.00	4.22	107.2	0.00	93.29	-	-	0.00	0.00	-
KAR20	13 121	13 122	0	2.13	2.00	4.13	107.2	0.00	93.36	-	-	0.00	0.00	-
KAR21	13 241	13 243	0	2.02	2.00	4.02	107.2	0.00	93.44	-	-	0.00	0.00	-
KAR22	13 502	13 503	0	1.78	2.00	3.78	107.2	0.00	93.61	-	-	0.00	0.00	-
KAR23	13 961	13 962	0	1.37	2.00	3.37	107.2	0.00	93.90	-	-	0.00	0.00	-
KAR24	9 243	9 245	0	6.41	2.00	8.41	107.2	0.00	90.32	-	-	0.00	0.00	-
KAR25	9 484	9 486	0	6.10	2.00	8.10	107.2	0.00	90.54	-	-	0.00	0.00	-
MAA01	6 183	6 185	0	11.51	2.00	13.51	107.2	0.00	86.83	-	-	0.00	0.00	-
MAA03	6 732	6 734	0	10.46	2.00	12.46	107.2	0.00	87.57	-	-	0.00	0.00	-
MAA04	7 882	7 884	0	8.52	2.00	10.52	107.2	0.00	88.93	-	-	0.00	0.00	-
MAA05	7 358	7 359	0	9.37	2.00	11.37	107.2	0.00	88.34	-	-	0.00	0.00	-
MAA06	8 545	8 546	0	7.53	2.00	9.53	107.2	0.00	89.64	-	-	0.00	0.00	-
MAA07	9 220	9 221	0	6.59	2.00	8.59	107.2	0.00	90.30	-	-	0.00	0.00	-
MAA08	9 712	9 713	0	5.95	2.00	7.95	107.2	0.00	90.75	-	-	0.00	0.00	-
RAH01	4 710	4 713	0	16.82	2.00	18.82	106.9	0.00	84.47	-	-	0.00	0.00	-
RAH02	5 444	5 446	0	15.06	2.00	17.06	106.9	0.00	85.72	-	-	0.00	0.00	-
RAH03	5 323	5 326	0	15.31	2.00	17.31	106.9	0.00	85.53	-	-	0.00	0.00	-
RAH04	6 115	6 118	0	13.74	2.00	15.74	106.9	0.00	86.73	-	-	0.00	0.00	-
RAH05	6 254	6 257	0	13.48	2.00	15.48	106.9	0.00	86.93	-	-	0.00	0.00	-
RAH06	6 910	6 912	0	12.32	2.00	14.32	106.9	0.00	87.79	-	-	0.00	0.00	-
RAH07	7 789	7 791	0	10.90	2.00	12.90	106.9	0.00	88.83	-	-	0.00	0.00	-
RAH08	7 105	7 107	0	11.99	2.00	13.99	106.9	0.00	88.03	-	-	0.00	0.00	-
RAH09	7 081	7 083	0	12.03	2.00	14.03	106.9	0.00	88.00	-	-	0.00	0.00	-
RAH10	6 388	6 391	0	13.24	2.00	15.24	106.9	0.00	87.11	-	-	0.00	0.00	-

To be continued on next page...

Project:

JM_Rahkakuru

Licensed user:

Course Registration

Time-limited until December 19, 2024

Janne Mäkinen / janne.makinen@vindteknikk.com

Calculated:

2024-12-10 8.17/4.1.254

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

...continued from previous page

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
RAH11	4 433	4 436	0	17.60	2.00	19.60	106.9	0.00	83.94	-	-	0.00	0.00	-
RAH12	3 735	3 738	0	19.79	2.00	21.79	106.9	0.00	82.45	-	-	0.00	0.00	-
RAH13	3 625	3 629	0	20.16	2.00	22.16	106.9	0.00	82.20	-	-	0.00	0.00	-
RAH14	4 277	4 281	0	18.06	2.00	20.06	106.9	0.00	83.63	-	-	0.00	0.00	-
RAH15	3 748	3 752	0	19.74	2.00	21.74	106.9	0.00	82.48	-	-	0.00	0.00	-
RAH16	2 892	2 897	0	22.96	2.00	24.96	106.9	0.00	80.24	-	-	0.00	0.00	-
RAH17	5 144	5 148	0	15.69	2.00	17.69	106.9	0.00	85.23	-	-	0.00	0.00	-
RAH18	4 495	4 499	0	17.42	2.00	19.42	106.9	0.00	84.06	-	-	0.00	0.00	-
RAH19	5 354	5 358	0	15.24	2.00	17.24	106.9	0.00	85.58	-	-	0.00	0.00	-
SIL01	6 218	6 220	0	9.78	2.00	11.78	108.5	0.00	86.88	-	-	0.00	0.00	-
SIL02	6 453	6 455	0	9.26	2.00	11.26	108.5	0.00	87.20	-	-	0.00	0.00	-
SIL03	6 510	6 512	0	9.13	2.00	11.13	108.5	0.00	87.27	-	-	0.00	0.00	-
SIL04	5 970	5 973	0	10.36	2.00	12.36	108.5	0.00	86.52	-	-	0.00	0.00	-
SIL05	5 578	5 581	0	11.31	2.00	13.31	108.5	0.00	85.93	-	-	0.00	0.00	-
SIL06	5 782	5 785	0	10.81	2.00	12.81	108.5	0.00	86.25	-	-	0.00	0.00	-
SIL07	5 336	5 339	0	11.94	2.00	13.94	108.5	0.00	85.55	-	-	0.00	0.00	-
SIL08	5 041	5 044	0	12.74	2.00	14.74	108.5	0.00	85.06	-	-	0.00	0.00	-
Sum						32.78								

- Data undefined due to calculation with octave data

Noise sensitive area: B Noise sensitive point: Finnish normal frequency - User defined (2)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	10 192	10 194	0	5.22	2.00	7.22	107.2	0.00	91.17	-	-	0.00	0.00	-
KAR02	10 113	10 115	0	5.31	2.00	7.31	107.2	0.00	91.10	-	-	0.00	0.00	-
KAR03	10 482	10 484	0	4.87	2.00	6.87	107.2	0.00	91.41	-	-	0.00	0.00	-
KAR04	11 014	11 016	0	4.27	2.00	6.27	107.2	0.00	91.84	-	-	0.00	0.00	-
KAR05	11 521	11 522	0	3.72	2.00	5.72	107.2	0.00	92.23	-	-	0.00	0.00	-
KAR06	11 028	11 030	0	4.25	2.00	6.25	107.2	0.00	91.85	-	-	0.00	0.00	-
KAR07	10 831	10 833	0	4.47	2.00	6.47	107.2	0.00	91.70	-	-	0.00	0.00	-
KAR08	10 747	10 748	0	4.57	2.00	6.57	107.2	0.00	91.63	-	-	0.00	0.00	-
KAR09	12 034	12 036	0	3.19	2.00	5.19	107.2	0.00	92.61	-	-	0.00	0.00	-
KAR10	11 747	11 749	0	3.48	2.00	5.48	107.2	0.00	92.40	-	-	0.00	0.00	-
KAR11	11 515	11 517	0	3.72	2.00	5.72	107.2	0.00	92.23	-	-	0.00	0.00	-
KAR12	12 260	12 262	0	2.96	2.00	4.96	107.2	0.00	92.77	-	-	0.00	0.00	-
KAR13	11 851	11 852	0	3.37	2.00	5.37	107.2	0.00	92.48	-	-	0.00	0.00	-
KAR14	12 661	12 663	0	2.56	2.00	4.56	107.2	0.00	93.05	-	-	0.00	0.00	-
KAR15	11 742	11 744	0	3.49	2.00	5.49	107.2	0.00	92.40	-	-	0.00	0.00	-
KAR16	12 942	12 944	0	2.30	2.00	4.30	107.2	0.00	93.24	-	-	0.00	0.00	-
KAR17	12 801	12 802	0	2.43	2.00	4.43	107.2	0.00	93.15	-	-	0.00	0.00	-
KAR18	13 393	13 395	0	1.88	2.00	3.88	107.2	0.00	93.54	-	-	0.00	0.00	-
KAR19	12 425	12 427	0	2.79	2.00	4.79	107.2	0.00	92.89	-	-	0.00	0.00	-
KAR20	13 447	13 449	0	1.83	2.00	3.83	107.2	0.00	93.57	-	-	0.00	0.00	-
KAR21	13 177	13 179	0	2.08	2.00	4.08	107.2	0.00	93.40	-	-	0.00	0.00	-
KAR22	13 161	13 163	0	2.09	2.00	4.09	107.2	0.00	93.39	-	-	0.00	0.00	-
KAR23	13 747	13 749	0	1.56	2.00	3.56	107.2	0.00	93.77	-	-	0.00	0.00	-
KAR24	10 406	10 408	0	4.96	2.00	6.96	107.2	0.00	91.35	-	-	0.00	0.00	-
KAR25	9 707	9 710	0	5.81	2.00	7.81	107.2	0.00	90.74	-	-	0.00	0.00	-
MAA01	4 622	4 625	0	15.02	2.00	17.02	107.2	0.00	84.30	-	-	0.00	0.00	-
MAA03	4 364	4 367	0	15.79	2.00	17.79	107.2	0.00	83.80	-	-	0.00	0.00	-
MAA04	5 388	5 390	0	13.18	2.00	15.18	107.2	0.00	85.63	-	-	0.00	0.00	-
MAA05	4 349	4 352	0	15.84	2.00	17.84	107.2	0.00	83.77	-	-	0.00	0.00	-
MAA06	4 876	4 879	0	14.39	2.00	16.39	107.2	0.00	84.77	-	-	0.00	0.00	-
MAA07	5 497	5 500	0	12.94	2.00	14.94	107.2	0.00	85.81	-	-	0.00	0.00	-
MAA08	6 006	6 008	0	11.86	2.00	13.86	107.2	0.00	86.57	-	-	0.00	0.00	-
RAH01	3 481	3 485	0	20.67	2.00	22.67	106.9	0.00	81.85	-	-	0.00	0.00	-
RAH02	3 012	3 017	0	22.46	2.00	24.46	106.9	0.00	80.59	-	-	0.00	0.00	-
RAH03	3 805	3 809	0	19.55	2.00	21.55	106.9	0.00	82.62	-	-	0.00	0.00	-
RAH04	2 908	2 913	0	22.89	2.00	24.89	106.9	0.00	80.29	-	-	0.00	0.00	-
RAH05	3 713	3 717	0	19.86	2.00	21.86	106.9	0.00	82.40	-	-	0.00	0.00	-

To be continued on next page...

Project:

JM_Rahkakuru

Licensed user:

Course Registration

Time-limited until December 19, 2024

Janne Mäkinen / janne.makinen@vindteknikk.com

Calculated:

2024-12-10 8.17/4.1.254

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

...continued from previous page

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
RAH06	3 632	3 636	0	20.14	2.00	22.14	106.9	0.00	82.21	-	-	0.00	0.00	-
RAH07	2 930	2 935	0	22.80	2.00	24.80	106.9	0.00	80.35	-	-	0.00	0.00	-
RAH08	2 241	2 248	0	26.02	2.00	28.02	106.9	0.00	78.03	-	-	0.00	0.00	-
RAH09	2 913	2 918	0	22.87	2.00	24.87	106.9	0.00	80.30	-	-	0.00	0.00	-
RAH10	2 193	2 199	0	26.27	2.00	28.27	106.9	0.00	77.85	-	-	0.00	0.00	-
RAH11	4 395	4 399	0	17.71	2.00	19.71	106.9	0.00	83.87	-	-	0.00	0.00	-
RAH12	4 241	4 244	0	18.17	2.00	20.17	106.9	0.00	83.56	-	-	0.00	0.00	-
RAH13	5 134	5 137	0	15.71	2.00	17.71	106.9	0.00	85.21	-	-	0.00	0.00	-
RAH14	5 270	5 272	0	15.42	2.00	17.42	106.9	0.00	85.44	-	-	0.00	0.00	-
RAH15	6 226	6 229	0	13.53	2.00	15.53	106.9	0.00	86.89	-	-	0.00	0.00	-
RAH16	5 686	5 689	0	14.57	2.00	16.57	106.9	0.00	86.10	-	-	0.00	0.00	-
RAH17	6 963	6 965	0	12.23	2.00	14.23	106.9	0.00	87.86	-	-	0.00	0.00	-
RAH18	6 859	6 862	0	12.41	2.00	14.41	106.9	0.00	87.73	-	-	0.00	0.00	-
RAH19	7 768	7 770	0	10.93	2.00	12.93	106.9	0.00	88.81	-	-	0.00	0.00	-
SIL01	11 834	11 835	0	0.85	2.00	2.85	108.5	0.00	92.46	-	-	0.00	0.00	-
SIL02	11 792	11 793	0	0.90	2.00	2.90	108.5	0.00	92.43	-	-	0.00	0.00	-
SIL03	11 540	11 542	0	1.19	2.00	3.19	108.5	0.00	92.25	-	-	0.00	0.00	-
SIL04	11 181	11 183	0	1.62	2.00	3.62	108.5	0.00	91.97	-	-	0.00	0.00	-
SIL05	11 278	11 279	0	1.50	2.00	3.50	108.5	0.00	92.05	-	-	0.00	0.00	-
SIL06	11 273	11 274	0	1.51	2.00	3.51	108.5	0.00	92.04	-	-	0.00	0.00	-
SIL07	10 718	10 720	0	2.19	2.00	4.19	108.5	0.00	91.60	-	-	0.00	0.00	-
SIL08	10 662	10 663	0	2.26	2.00	4.26	108.5	0.00	91.56	-	-	0.00	0.00	-
Sum						36.05								

- Data undefined due to calculation with octave data

Noise sensitive area: C Noise sensitive point: Finnish normal frequency - User defined (5)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	10 524	10 527	0	4.82	2.00	6.82	107.2	0.00	91.45	-	-	0.00	0.00	-
KAR02	10 331	10 333	0	5.05	2.00	7.05	107.2	0.00	91.28	-	-	0.00	0.00	-
KAR03	10 753	10 755	0	4.56	2.00	6.56	107.2	0.00	91.63	-	-	0.00	0.00	-
KAR04	11 328	11 330	0	3.92	2.00	5.92	107.2	0.00	92.08	-	-	0.00	0.00	-
KAR05	11 877	11 879	0	3.35	2.00	5.35	107.2	0.00	92.50	-	-	0.00	0.00	-
KAR06	11 254	11 256	0	4.00	2.00	6.00	107.2	0.00	92.03	-	-	0.00	0.00	-
KAR07	10 983	10 985	0	4.30	2.00	6.30	107.2	0.00	91.82	-	-	0.00	0.00	-
KAR08	10 820	10 821	0	4.49	2.00	6.49	107.2	0.00	91.69	-	-	0.00	0.00	-
KAR09	12 356	12 358	0	2.86	2.00	4.86	107.2	0.00	92.84	-	-	0.00	0.00	-
KAR10	12 018	12 020	0	3.20	2.00	5.20	107.2	0.00	92.60	-	-	0.00	0.00	-
KAR11	11 687	11 688	0	3.54	2.00	5.54	107.2	0.00	92.36	-	-	0.00	0.00	-
KAR12	12 486	12 487	0	2.74	2.00	4.74	107.2	0.00	92.93	-	-	0.00	0.00	-
KAR13	11 979	11 981	0	3.24	2.00	5.24	107.2	0.00	92.57	-	-	0.00	0.00	-
KAR14	12 925	12 926	0	2.31	2.00	4.31	107.2	0.00	93.23	-	-	0.00	0.00	-
KAR15	11 814	11 815	0	3.41	2.00	5.41	107.2	0.00	92.45	-	-	0.00	0.00	-
KAR16	13 152	13 154	0	2.10	2.00	4.10	107.2	0.00	93.38	-	-	0.00	0.00	-
KAR17	12 956	12 957	0	2.28	2.00	4.28	107.2	0.00	93.25	-	-	0.00	0.00	-
KAR18	13 648	13 650	0	1.64	2.00	3.64	107.2	0.00	93.70	-	-	0.00	0.00	-
KAR19	12 458	12 460	0	2.76	2.00	4.76	107.2	0.00	92.91	-	-	0.00	0.00	-
KAR20	13 619	13 620	0	1.67	2.00	3.67	107.2	0.00	93.68	-	-	0.00	0.00	-
KAR21	13 287	13 289	0	1.97	2.00	3.97	107.2	0.00	93.47	-	-	0.00	0.00	-
KAR22	13 222	13 224	0	2.03	2.00	4.03	107.2	0.00	93.43	-	-	0.00	0.00	-
KAR23	13 818	13 820	0	1.49	2.00	3.49	107.2	0.00	93.81	-	-	0.00	0.00	-
KAR24	10 798	10 800	0	4.51	2.00	6.51	107.2	0.00	91.67	-	-	0.00	0.00	-
KAR25	9 971	9 973	0	5.48	2.00	7.48	107.2	0.00	90.98	-	-	0.00	0.00	-
MAA01	4 962	4 964	0	14.18	2.00	16.18	107.2	0.00	84.92	-	-	0.00	0.00	-
MAA03	4 551	4 554	0	15.21	2.00	17.21	107.2	0.00	84.17	-	-	0.00	0.00	-
MAA04	5 400	5 403	0	13.16	2.00	15.16	107.2	0.00	85.65	-	-	0.00	0.00	-
MAA05	4 364	4 366	0	15.79	2.00	17.79	107.2	0.00	83.80	-	-	0.00	0.00	-
MAA06	4 624	4 626	0	15.02	2.00	17.02	107.2	0.00	84.30	-	-	0.00	0.00	-
MAA07	5 167	5 170	0	13.69	2.00	15.69	107.2	0.00	85.27	-	-	0.00	0.00	-
MAA08	5 640	5 642	0	12.63	2.00	14.63	107.2	0.00	86.03	-	-	0.00	0.00	-

To be continued on next page...

Project:

JM_Rahkakuru

Licensed user:

Course Registration

Time-limited until December 19, 2024

Janne Mäkinen / janne.makinen@vindteknikk.com

Calculated:

2024-12-10 8.17/4.1.254

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

...continued from previous page

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
RAH01	4 133	4 137	0	18.50	2.00	20.50	106.9	0.00	83.33	-	-	0.00	0.00	-
RAH02	3 501	3 505	0	20.60	2.00	22.60	106.9	0.00	81.89	-	-	0.00	0.00	-
RAH03	4 312	4 315	0	17.96	2.00	19.96	106.9	0.00	83.70	-	-	0.00	0.00	-
RAH04	3 189	3 193	0	21.76	2.00	23.76	106.9	0.00	81.09	-	-	0.00	0.00	-
RAH05	3 981	3 985	0	18.98	2.00	20.98	106.9	0.00	83.01	-	-	0.00	0.00	-
RAH06	3 698	3 702	0	19.91	2.00	21.91	106.9	0.00	82.37	-	-	0.00	0.00	-
RAH07	2 533	2 539	0	24.56	2.00	26.56	106.9	0.00	79.09	-	-	0.00	0.00	-
RAH08	2 040	2 047	0	27.12	2.00	29.12	106.9	0.00	77.22	-	-	0.00	0.00	-
RAH09	2 832	2 837	0	23.22	2.00	25.22	106.9	0.00	80.06	-	-	0.00	0.00	-
RAH10	2 353	2 359	0	25.44	2.00	27.44	106.9	0.00	78.46	-	-	0.00	0.00	-
RAH11	5 075	5 078	0	15.85	2.00	17.85	106.9	0.00	85.11	-	-	0.00	0.00	-
RAH12	5 038	5 041	0	15.95	2.00	17.95	106.9	0.00	85.05	-	-	0.00	0.00	-
RAH13	5 927	5 930	0	14.10	2.00	16.10	106.9	0.00	86.46	-	-	0.00	0.00	-
RAH14	5 976	5 979	0	14.00	2.00	16.00	106.9	0.00	86.53	-	-	0.00	0.00	-
RAH15	7 021	7 023	0	12.13	2.00	14.13	106.9	0.00	87.93	-	-	0.00	0.00	-
RAH16	6 561	6 563	0	12.93	2.00	14.93	106.9	0.00	87.34	-	-	0.00	0.00	-
RAH17	7 621	7 623	0	11.16	2.00	13.16	106.9	0.00	88.64	-	-	0.00	0.00	-
RAH18	7 593	7 596	0	11.21	2.00	13.21	106.9	0.00	88.61	-	-	0.00	0.00	-
RAH19	8 453	8 455	0	9.92	2.00	11.92	106.9	0.00	89.54	-	-	0.00	0.00	-
SIL01	12 789	12 791	0	-0.19	2.00	1.81	108.5	0.00	93.14	-	-	0.00	0.00	-
SIL02	12 713	12 714	0	-0.11	2.00	1.89	108.5	0.00	93.09	-	-	0.00	0.00	-
SIL03	12 427	12 429	0	0.19	2.00	2.19	108.5	0.00	92.89	-	-	0.00	0.00	-
SIL04	12 093	12 095	0	0.56	2.00	2.56	108.5	0.00	92.65	-	-	0.00	0.00	-
SIL05	12 247	12 248	0	0.39	2.00	2.39	108.5	0.00	92.76	-	-	0.00	0.00	-
SIL06	12 217	12 218	0	0.42	2.00	2.42	108.5	0.00	92.74	-	-	0.00	0.00	-
SIL07	11 655	11 656	0	1.06	2.00	3.06	108.5	0.00	92.33	-	-	0.00	0.00	-
SIL08	11 626	11 627	0	1.09	2.00	3.09	108.5	0.00	92.31	-	-	0.00	0.00	-
Sum						35.79								

- Data undefined due to calculation with octave data

Noise sensitive area: D Noise sensitive point: Finnish normal frequency - User defined (24)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	8 502	8 505	0	7.43	2.00	9.43	107.2	0.00	89.59	-	-	0.00	0.00	-
KAR02	8 938	8 940	0	6.82	2.00	8.82	107.2	0.00	90.03	-	-	0.00	0.00	-
KAR03	9 030	9 032	0	6.70	2.00	8.70	107.2	0.00	90.12	-	-	0.00	0.00	-
KAR04	9 316	9 318	0	6.31	2.00	8.31	107.2	0.00	90.39	-	-	0.00	0.00	-
KAR05	9 589	9 591	0	5.96	2.00	7.96	107.2	0.00	90.64	-	-	0.00	0.00	-
KAR06	9 711	9 713	0	5.81	2.00	7.81	107.2	0.00	90.75	-	-	0.00	0.00	-
KAR07	9 857	9 859	0	5.63	2.00	7.63	107.2	0.00	90.88	-	-	0.00	0.00	-
KAR08	10 116	10 118	0	5.31	2.00	7.31	107.2	0.00	91.10	-	-	0.00	0.00	-
KAR09	10 209	10 211	0	5.20	2.00	7.20	107.2	0.00	91.18	-	-	0.00	0.00	-
KAR10	10 169	10 171	0	5.24	2.00	7.24	107.2	0.00	91.15	-	-	0.00	0.00	-
KAR11	10 387	10 389	0	4.99	2.00	6.99	107.2	0.00	91.33	-	-	0.00	0.00	-
KAR12	10 834	10 836	0	4.47	2.00	6.47	107.2	0.00	91.70	-	-	0.00	0.00	-
KAR13	10 877	10 879	0	4.42	2.00	6.42	107.2	0.00	91.73	-	-	0.00	0.00	-
KAR14	11 040	11 042	0	4.24	2.00	6.24	107.2	0.00	91.86	-	-	0.00	0.00	-
KAR15	11 019	11 021	0	4.26	2.00	6.26	107.2	0.00	91.84	-	-	0.00	0.00	-
KAR16	11 529	11 531	0	3.71	2.00	5.71	107.2	0.00	92.24	-	-	0.00	0.00	-
KAR17	11 634	11 635	0	3.60	2.00	5.60	107.2	0.00	92.32	-	-	0.00	0.00	-
KAR18	11 757	11 759	0	3.47	2.00	5.47	107.2	0.00	92.41	-	-	0.00	0.00	-
KAR19	11 805	11 807	0	3.42	2.00	5.42	107.2	0.00	92.44	-	-	0.00	0.00	-
KAR20	12 165	12 167	0	3.05	2.00	5.05	107.2	0.00	92.70	-	-	0.00	0.00	-
KAR21	12 176	12 178	0	3.04	2.00	5.04	107.2	0.00	92.71	-	-	0.00	0.00	-
KAR22	12 366	12 368	0	2.85	2.00	4.85	107.2	0.00	92.85	-	-	0.00	0.00	-
KAR23	12 869	12 871	0	2.36	2.00	4.36	107.2	0.00	93.19	-	-	0.00	0.00	-
KAR24	8 427	8 430	0	7.54	2.00	9.54	107.2	0.00	89.52	-	-	0.00	0.00	-
KAR25	8 382	8 385	0	7.61	2.00	9.61	107.2	0.00	89.47	-	-	0.00	0.00	-
MAA01	4 426	4 429	0	15.59	2.00	17.59	107.2	0.00	83.93	-	-	0.00	0.00	-
MAA03	4 899	4 902	0	14.33	2.00	16.33	107.2	0.00	84.81	-	-	0.00	0.00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

...continued from previous page

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
MAA04	6 096	6 098	0	11.68	2.00	13.68	107.2	0.00	86.70	-	-	0.00	0.00	-
MAA05	5 486	5 488	0	12.97	2.00	14.97	107.2	0.00	85.79	-	-	0.00	0.00	-
MAA06	6 650	6 652	0	10.62	2.00	12.62	107.2	0.00	87.46	-	-	0.00	0.00	-
MAA07	7 335	7 336	0	9.41	2.00	11.41	107.2	0.00	88.31	-	-	0.00	0.00	-
MAA08	7 838	7 839	0	8.59	2.00	10.59	107.2	0.00	88.89	-	-	0.00	0.00	-
RAH01	2 830	2 835	0	23.23	2.00	25.23	106.9	0.00	80.05	-	-	0.00	0.00	-
RAH02	3 519	3 523	0	20.54	2.00	22.54	106.9	0.00	81.94	-	-	0.00	0.00	-
RAH03	3 482	3 486	0	20.67	2.00	22.67	106.9	0.00	81.85	-	-	0.00	0.00	-
RAH04	4 181	4 184	0	18.35	2.00	20.35	106.9	0.00	83.43	-	-	0.00	0.00	-
RAH05	4 372	4 375	0	17.78	2.00	19.78	106.9	0.00	83.82	-	-	0.00	0.00	-
RAH06	4 998	5 001	0	16.05	2.00	18.05	106.9	0.00	84.98	-	-	0.00	0.00	-
RAH07	5 848	5 850	0	14.25	2.00	16.25	106.9	0.00	86.34	-	-	0.00	0.00	-
RAH08	5 171	5 174	0	15.63	2.00	17.63	106.9	0.00	85.28	-	-	0.00	0.00	-
RAH09	5 138	5 140	0	15.71	2.00	17.71	106.9	0.00	85.22	-	-	0.00	0.00	-
RAH10	4 448	4 451	0	17.56	2.00	19.56	106.9	0.00	83.97	-	-	0.00	0.00	-
RAH11	2 743	2 748	0	23.60	2.00	25.60	106.9	0.00	79.78	-	-	0.00	0.00	-
RAH12	2 012	2 019	0	27.28	2.00	29.28	106.9	0.00	77.10	-	-	0.00	0.00	-
RAH13	2 273	2 279	0	25.85	2.00	27.85	106.9	0.00	78.15	-	-	0.00	0.00	-
RAH14	2 891	2 896	0	22.97	2.00	24.97	106.9	0.00	80.24	-	-	0.00	0.00	-
RAH15	2 923	2 929	0	22.83	2.00	24.83	106.9	0.00	80.33	-	-	0.00	0.00	-
RAH16	2 011	2 018	0	27.28	2.00	29.28	106.9	0.00	77.10	-	-	0.00	0.00	-
RAH17	4 253	4 257	0	18.13	2.00	20.13	106.9	0.00	83.58	-	-	0.00	0.00	-
RAH18	3 755	3 759	0	19.72	2.00	21.72	106.9	0.00	82.50	-	-	0.00	0.00	-
RAH19	4 751	4 755	0	16.70	2.00	18.70	106.9	0.00	84.54	-	-	0.00	0.00	-
SIL01	7 452	7 454	0	7.22	2.00	9.22	108.5	0.00	88.45	-	-	0.00	0.00	-
SIL02	7 494	7 496	0	7.14	2.00	9.14	108.5	0.00	88.50	-	-	0.00	0.00	-
SIL03	7 354	7 356	0	7.41	2.00	9.41	108.5	0.00	88.33	-	-	0.00	0.00	-
SIL04	6 919	6 921	0	8.27	2.00	10.27	108.5	0.00	87.80	-	-	0.00	0.00	-
SIL05	6 871	6 873	0	8.37	2.00	10.37	108.5	0.00	87.74	-	-	0.00	0.00	-
SIL06	6 920	6 922	0	8.27	2.00	10.27	108.5	0.00	87.80	-	-	0.00	0.00	-
SIL07	6 390	6 392	0	9.39	2.00	11.39	108.5	0.00	87.11	-	-	0.00	0.00	-
SIL08	6 267	6 269	0	9.67	2.00	11.67	108.5	0.00	86.94	-	-	0.00	0.00	-
Sum						37.19								

- Data undefined due to calculation with octave data

Noise sensitive area: E Noise sensitive point: Finnish normal frequency - User defined (35)

Wind speed: 8.0 m/s

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	9 828	9 829	0	5.66	2.00	7.66	107.2	0.00	90.85	-	-	0.00	0.00	-
KAR02	10 801	10 803	0	4.51	2.00	6.51	107.2	0.00	91.67	-	-	0.00	0.00	-
KAR03	10 512	10 514	0	4.84	2.00	6.84	107.2	0.00	91.44	-	-	0.00	0.00	-
KAR04	10 379	10 381	0	4.99	2.00	6.99	107.2	0.00	91.32	-	-	0.00	0.00	-
KAR05	10 233	10 235	0	5.17	2.00	7.17	107.2	0.00	91.20	-	-	0.00	0.00	-
KAR06	11 183	11 185	0	4.08	2.00	6.08	107.2	0.00	91.97	-	-	0.00	0.00	-
KAR07	11 725	11 727	0	3.50	2.00	5.50	107.2	0.00	92.38	-	-	0.00	0.00	-
KAR08	12 330	12 331	0	2.89	2.00	4.89	107.2	0.00	92.82	-	-	0.00	0.00	-
KAR09	10 847	10 849	0	4.46	2.00	6.46	107.2	0.00	91.71	-	-	0.00	0.00	-
KAR10	11 172	11 174	0	4.09	2.00	6.09	107.2	0.00	91.96	-	-	0.00	0.00	-
KAR11	11 939	11 940	0	3.28	2.00	5.28	107.2	0.00	92.54	-	-	0.00	0.00	-
KAR12	11 893	11 894	0	3.33	2.00	5.33	107.2	0.00	92.51	-	-	0.00	0.00	-
KAR13	12 517	12 518	0	2.70	2.00	4.70	107.2	0.00	92.95	-	-	0.00	0.00	-
KAR14	11 779	11 781	0	3.45	2.00	5.45	107.2	0.00	92.42	-	-	0.00	0.00	-
KAR15	12 937	12 938	0	2.30	2.00	4.30	107.2	0.00	93.24	-	-	0.00	0.00	-
KAR16	12 459	12 460	0	2.76	2.00	4.76	107.2	0.00	92.91	-	-	0.00	0.00	-
KAR17	12 875	12 877	0	2.36	2.00	4.36	107.2	0.00	93.20	-	-	0.00	0.00	-
KAR18	12 326	12 328	0	2.89	2.00	4.89	107.2	0.00	92.82	-	-	0.00	0.00	-
KAR19	13 701	13 702	0	1.60	2.00	3.60	107.2	0.00	93.74	-	-	0.00	0.00	-
KAR20	13 155	13 156	0	2.10	2.00	4.10	107.2	0.00	93.38	-	-	0.00	0.00	-
KAR21	13 535	13 536	0	1.75	2.00	3.75	107.2	0.00	93.63	-	-	0.00	0.00	-
KAR22	13 952	13 954	0	1.38	2.00	3.38	107.2	0.00	93.89	-	-	0.00	0.00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

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No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR23	14 271	14 272	0	1.10	2.00	3.10	107.2	0.00	94.09	-	-	0.00	0.00	-
KAR24	9 365	9 367	0	6.25	2.00	8.25	107.2	0.00	90.43	-	-	0.00	0.00	-
KAR25	10 226	10 228	0	5.18	2.00	7.18	107.2	0.00	91.20	-	-	0.00	0.00	-
MAA01	8 960	8 961	0	6.94	2.00	8.94	107.2	0.00	90.05	-	-	0.00	0.00	-
MAA03	9 676	9 677	0	5.99	2.00	7.99	107.2	0.00	90.72	-	-	0.00	0.00	-
MAA04	10 571	10 572	0	4.90	2.00	6.90	107.2	0.00	91.48	-	-	0.00	0.00	-
MAA05	10 395	10 396	0	5.11	2.00	7.11	107.2	0.00	91.34	-	-	0.00	0.00	-
MAA06	11 611	11 612	0	3.74	2.00	5.74	107.2	0.00	92.30	-	-	0.00	0.00	-
MAA07	12 203	12 204	0	3.13	2.00	5.13	107.2	0.00	92.73	-	-	0.00	0.00	-
MAA08	12 618	12 619	0	2.72	2.00	4.72	107.2	0.00	93.02	-	-	0.00	0.00	-
RAH01	8 031	8 033	0	10.54	2.00	12.54	106.9	0.00	89.10	-	-	0.00	0.00	-
RAH02	8 875	8 876	0	9.33	2.00	11.33	106.9	0.00	89.96	-	-	0.00	0.00	-
RAH03	8 448	8 449	0	9.93	2.00	11.93	106.9	0.00	89.54	-	-	0.00	0.00	-
RAH04	9 569	9 570	0	8.42	2.00	10.42	106.9	0.00	90.62	-	-	0.00	0.00	-
RAH05	9 422	9 423	0	8.60	2.00	10.60	106.9	0.00	90.48	-	-	0.00	0.00	-
RAH06	10 163	10 164	0	7.68	2.00	9.68	106.9	0.00	91.14	-	-	0.00	0.00	-
RAH07	11 414	11 415	0	6.24	2.00	8.24	106.9	0.00	92.15	-	-	0.00	0.00	-
RAH08	10 830	10 831	0	6.89	2.00	8.89	106.9	0.00	91.69	-	-	0.00	0.00	-
RAH09	10 600	10 601	0	7.16	2.00	9.16	106.9	0.00	91.51	-	-	0.00	0.00	-
RAH10	10 068	10 069	0	7.79	2.00	9.79	106.9	0.00	91.06	-	-	0.00	0.00	-
RAH11	7 358	7 359	0	11.58	2.00	13.58	106.9	0.00	88.34	-	-	0.00	0.00	-
RAH12	6 884	6 885	0	12.37	2.00	14.37	106.9	0.00	87.76	-	-	0.00	0.00	-
RAH13	6 259	6 261	0	13.47	2.00	15.47	106.9	0.00	86.93	-	-	0.00	0.00	-
RAH14	6 717	6 719	0	12.65	2.00	14.65	106.9	0.00	87.55	-	-	0.00	0.00	-
RAH15	5 560	5 563	0	14.82	2.00	16.82	106.9	0.00	85.91	-	-	0.00	0.00	-
RAH16	5 327	5 329	0	15.30	2.00	17.30	106.9	0.00	85.53	-	-	0.00	0.00	-
RAH17	6 415	6 418	0	13.19	2.00	15.19	106.9	0.00	87.15	-	-	0.00	0.00	-
RAH18	5 777	5 780	0	14.39	2.00	16.39	106.9	0.00	86.24	-	-	0.00	0.00	-
RAH19	6 004	6 007	0	13.95	2.00	15.95	106.9	0.00	86.57	-	-	0.00	0.00	-
SIL01	2 365	2 371	0	23.98	2.00	25.98	108.5	0.00	78.50	-	-	0.00	0.00	-
SIL02	2 989	2 993	0	20.59	2.00	22.59	108.5	0.00	80.52	-	-	0.00	0.00	-
SIL03	3 503	3 507	0	18.20	2.00	20.20	108.5	0.00	81.90	-	-	0.00	0.00	-
SIL04	2 871	2 876	0	21.18	2.00	23.18	108.5	0.00	80.18	-	-	0.00	0.00	-
SIL05	1 723	1 730	0	28.32	2.00	30.32	108.5	0.00	75.76	-	-	0.00	0.00	-
SIL06	2 260	2 266	0	24.62	2.00	26.62	108.5	0.00	78.10	-	-	0.00	0.00	-
SIL07	2 213	2 219	0	24.92	2.00	26.92	108.5	0.00	77.92	-	-	0.00	0.00	-
SIL08	1 564	1 572	0	29.58	2.00	31.58	108.5	0.00	74.93	-	-	0.00	0.00	-
Sum						36.93								

- Data undefined due to calculation with octave data

Noise sensitive area: F Noise sensitive point: Finnish normal frequency - User defined (1)

Wind speed: 8.0 m/s

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	8 906	8 908	0	6.86	2.00	8.86	107.2	0.00	90.00	-	-	0.00	0.00	-
KAR02	9 015	9 017	0	6.72	2.00	8.72	107.2	0.00	90.10	-	-	0.00	0.00	-
KAR03	9 289	9 291	0	6.35	2.00	8.35	107.2	0.00	90.36	-	-	0.00	0.00	-
KAR04	9 742	9 744	0	5.77	2.00	7.77	107.2	0.00	90.78	-	-	0.00	0.00	-
KAR05	10 175	10 178	0	5.24	2.00	7.24	107.2	0.00	91.15	-	-	0.00	0.00	-
KAR06	9 896	9 898	0	5.58	2.00	7.58	107.2	0.00	90.91	-	-	0.00	0.00	-
KAR07	9 827	9 829	0	5.66	2.00	7.66	107.2	0.00	90.85	-	-	0.00	0.00	-
KAR08	9 878	9 880	0	5.60	2.00	7.60	107.2	0.00	90.90	-	-	0.00	0.00	-
KAR09	10 735	10 737	0	4.58	2.00	6.58	107.2	0.00	91.62	-	-	0.00	0.00	-
KAR10	10 532	10 534	0	4.82	2.00	6.82	107.2	0.00	91.45	-	-	0.00	0.00	-
KAR11	10 465	10 467	0	4.89	2.00	6.89	107.2	0.00	91.40	-	-	0.00	0.00	-
KAR12	11 109	11 112	0	4.16	2.00	6.16	107.2	0.00	91.92	-	-	0.00	0.00	-
KAR13	10 867	10 869	0	4.43	2.00	6.43	107.2	0.00	91.72	-	-	0.00	0.00	-
KAR14	11 444	11 446	0	3.80	2.00	5.80	107.2	0.00	92.17	-	-	0.00	0.00	-
KAR15	10 856	10 858	0	4.44	2.00	6.44	107.2	0.00	91.72	-	-	0.00	0.00	-
KAR16	11 806	11 808	0	3.42	2.00	5.42	107.2	0.00	92.44	-	-	0.00	0.00	-
KAR17	11 757	11 759	0	3.47	2.00	5.47	107.2	0.00	92.41	-	-	0.00	0.00	-

To be continued on next page...

Project:

JM_Rahkakuru

Licensed user:

Course Registration

Time-limited until December 19. 2024

Janne Mäkinen / janne.makinen@vindteknikk.com

Calculated:

2024-12-10 8.17/4.1.254

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

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WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR18	12 181	12 183	0	3.04	2.00	5.04	107.2	0.00	92.72	-	-	0.00	0.00	-
KAR19	11 593	11 595	0	3.64	2.00	5.64	107.2	0.00	92.29	-	-	0.00	0.00	-
KAR20	12 368	12 370	0	2.85	2.00	4.85	107.2	0.00	92.85	-	-	0.00	0.00	-
KAR21	12 204	12 206	0	3.01	2.00	5.01	107.2	0.00	92.73	-	-	0.00	0.00	-
KAR22	12 269	12 271	0	2.95	2.00	4.95	107.2	0.00	92.78	-	-	0.00	0.00	-
KAR23	12 830	12 832	0	2.40	2.00	4.40	107.2	0.00	93.17	-	-	0.00	0.00	-
KAR24	9 024	9 026	0	6.70	2.00	8.70	107.2	0.00	90.11	-	-	0.00	0.00	-
KAR25	8 542	8 544	0	7.37	2.00	9.37	107.2	0.00	89.63	-	-	0.00	0.00	-
MAA01	3 600	3 603	0	18.43	2.00	20.43	107.2	0.00	82.13	-	-	0.00	0.00	-
MAA03	3 668	3 672	0	18.17	2.00	20.17	107.2	0.00	82.30	-	-	0.00	0.00	-
MAA04	4 890	4 893	0	14.35	2.00	16.35	107.2	0.00	84.79	-	-	0.00	0.00	-
MAA05	3 981	3 984	0	17.05	2.00	19.05	107.2	0.00	83.01	-	-	0.00	0.00	-
MAA06	4 921	4 924	0	14.27	2.00	16.27	107.2	0.00	84.85	-	-	0.00	0.00	-
MAA07	5 617	5 620	0	12.68	2.00	14.68	107.2	0.00	85.99	-	-	0.00	0.00	-
MAA08	6 148	6 150	0	11.58	2.00	13.58	107.2	0.00	86.78	-	-	0.00	0.00	-
RAH01	1 998	2 006	0	27.35	2.00	29.35	106.9	0.00	77.04	-	-	0.00	0.00	-
RAH02	2 004	2 011	0	27.32	2.00	29.32	106.9	0.00	77.07	-	-	0.00	0.00	-
RAH03	2 571	2 577	0	24.38	2.00	26.38	106.9	0.00	79.22	-	-	0.00	0.00	-
RAH04	2 378	2 384	0	25.32	2.00	27.32	106.9	0.00	78.55	-	-	0.00	0.00	-
RAH05	2 979	2 984	0	22.60	2.00	24.60	106.9	0.00	80.50	-	-	0.00	0.00	-
RAH06	3 306	3 310	0	21.31	2.00	23.31	106.9	0.00	81.40	-	-	0.00	0.00	-
RAH07	3 572	3 576	0	20.35	2.00	22.35	106.9	0.00	82.07	-	-	0.00	0.00	-
RAH08	2 826	2 832	0	23.24	2.00	25.24	106.9	0.00	80.04	-	-	0.00	0.00	-
RAH09	3 051	3 056	0	22.30	2.00	24.30	106.9	0.00	80.70	-	-	0.00	0.00	-
RAH10	2 226	2 232	0	26.10	2.00	28.10	106.9	0.00	77.97	-	-	0.00	0.00	-
RAH11	2 758	2 764	0	23.54	2.00	25.54	106.9	0.00	79.83	-	-	0.00	0.00	-
RAH12	2 423	2 429	0	25.10	2.00	27.10	106.9	0.00	78.71	-	-	0.00	0.00	-
RAH13	3 294	3 299	0	21.36	2.00	23.36	106.9	0.00	81.37	-	-	0.00	0.00	-
RAH14	3 544	3 548	0	20.44	2.00	22.44	106.9	0.00	82.00	-	-	0.00	0.00	-
RAH15	4 367	4 371	0	17.79	2.00	19.79	106.9	0.00	83.81	-	-	0.00	0.00	-
RAH16	3 761	3 765	0	19.70	2.00	21.70	106.9	0.00	82.52	-	-	0.00	0.00	-
RAH17	5 259	5 263	0	15.44	2.00	17.44	106.9	0.00	85.42	-	-	0.00	0.00	-
RAH18	5 060	5 063	0	15.89	2.00	17.89	106.9	0.00	85.09	-	-	0.00	0.00	-
RAH19	6 016	6 019	0	13.93	2.00	15.93	106.9	0.00	86.59	-	-	0.00	0.00	-
SIL01	9 892	9 893	0	3.29	2.00	5.29	108.5	0.00	90.91	-	-	0.00	0.00	-
SIL02	9 845	9 846	0	3.35	2.00	5.35	108.5	0.00	90.87	-	-	0.00	0.00	-
SIL03	9 600	9 602	0	3.70	2.00	5.70	108.5	0.00	90.65	-	-	0.00	0.00	-
SIL04	9 235	9 237	0	4.23	2.00	6.23	108.5	0.00	90.31	-	-	0.00	0.00	-
SIL05	9 341	9 343	0	4.07	2.00	6.07	108.5	0.00	90.41	-	-	0.00	0.00	-
SIL06	9 328	9 329	0	4.09	2.00	6.09	108.5	0.00	90.40	-	-	0.00	0.00	-
SIL07	8 772	8 773	0	4.94	2.00	6.94	108.5	0.00	89.86	-	-	0.00	0.00	-
SIL08	8 722	8 724	0	5.02	2.00	7.02	108.5	0.00	89.81	-	-	0.00	0.00	-
Sum						38.37								

- Data undefined due to calculation with octave data

Noise sensitive area: G Noise sensitive point: Finnish normal frequency - User defined (4)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	10 603	10 605	0	4.73	2.00	6.73	107.2	0.00	91.51	-	-	0.00	0.00	-
KAR02	10 266	10 268	0	5.13	2.00	7.13	107.2	0.00	91.23	-	-	0.00	0.00	-
KAR03	10 750	10 752	0	4.56	2.00	6.56	107.2	0.00	91.63	-	-	0.00	0.00	-
KAR04	11 373	11 375	0	3.88	2.00	5.88	107.2	0.00	92.12	-	-	0.00	0.00	-
KAR05	11 970	11 972	0	3.25	2.00	5.25	107.2	0.00	92.56	-	-	0.00	0.00	-
KAR06	11 188	11 190	0	4.08	2.00	6.08	107.2	0.00	91.98	-	-	0.00	0.00	-
KAR07	10 827	10 829	0	4.48	2.00	6.48	107.2	0.00	91.69	-	-	0.00	0.00	-
KAR08	10 568	10 570	0	4.77	2.00	6.77	107.2	0.00	91.48	-	-	0.00	0.00	-
KAR09	12 400	12 402	0	2.82	2.00	4.82	107.2	0.00	92.87	-	-	0.00	0.00	-
KAR10	11 999	12 001	0	3.22	2.00	5.22	107.2	0.00	92.58	-	-	0.00	0.00	-
KAR11	11 547	11 548	0	3.69	2.00	5.69	107.2	0.00	92.25	-	-	0.00	0.00	-
KAR12	12 405	12 407	0	2.81	2.00	4.81	107.2	0.00	92.87	-	-	0.00	0.00	-

To be continued on next page...

Project:

JM_Rahkakuru

Licensed user:

Course Registration

Time-limited until December 19, 2024

Janne Mäkinen / janne.makinen@vindteknikk.com

Calculated:

2024-12-10 8.17/4.1.254

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

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WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR13	11 782	11 783	0	3.45	2.00	5.45	107.2	0.00	92.43	-	-	0.00	0.00	-
KAR14	12 888	12 890	0	2.35	2.00	4.35	107.2	0.00	93.20	-	-	0.00	0.00	-
KAR15	11 548	11 550	0	3.69	2.00	5.69	107.2	0.00	92.25	-	-	0.00	0.00	-
KAR16	13 046	13 048	0	2.20	2.00	4.20	107.2	0.00	93.31	-	-	0.00	0.00	-
KAR17	12 782	12 784	0	2.45	2.00	4.45	107.2	0.00	93.13	-	-	0.00	0.00	-
KAR18	13 594	13 596	0	1.69	2.00	3.69	107.2	0.00	93.67	-	-	0.00	0.00	-
KAR19	12 139	12 141	0	3.08	2.00	5.08	107.2	0.00	92.68	-	-	0.00	0.00	-
KAR20	13 459	13 461	0	1.82	2.00	3.82	107.2	0.00	93.58	-	-	0.00	0.00	-
KAR21	13 054	13 056	0	2.19	2.00	4.19	107.2	0.00	93.32	-	-	0.00	0.00	-
KAR22	12 930	12 932	0	2.31	2.00	4.31	107.2	0.00	93.23	-	-	0.00	0.00	-
KAR23	13 533	13 535	0	1.75	2.00	3.75	107.2	0.00	93.63	-	-	0.00	0.00	-
KAR24	10 949	10 951	0	4.34	2.00	6.34	107.2	0.00	91.79	-	-	0.00	0.00	-
KAR25	9 971	9 973	0	5.49	2.00	7.49	107.2	0.00	90.98	-	-	0.00	0.00	-
MAA01	5 207	5 210	0	13.60	2.00	15.60	107.2	0.00	85.34	-	-	0.00	0.00	-
MAA03	4 640	4 642	0	14.98	2.00	16.98	107.2	0.00	84.33	-	-	0.00	0.00	-
MAA04	5 218	5 221	0	13.57	2.00	15.57	107.2	0.00	85.35	-	-	0.00	0.00	-
MAA05	4 254	4 257	0	16.14	2.00	18.14	107.2	0.00	83.58	-	-	0.00	0.00	-
MAA06	4 155	4 158	0	16.47	2.00	18.47	107.2	0.00	83.38	-	-	0.00	0.00	-
MAA07	4 566	4 569	0	15.17	2.00	17.17	107.2	0.00	84.20	-	-	0.00	0.00	-
MAA08	4 972	4 974	0	14.15	2.00	16.15	107.2	0.00	84.93	-	-	0.00	0.00	-
RAH01	4 799	4 802	0	16.58	2.00	18.58	106.9	0.00	84.63	-	-	0.00	0.00	-
RAH02	4 032	4 035	0	18.82	2.00	20.82	106.9	0.00	83.12	-	-	0.00	0.00	-
RAH03	4 797	4 801	0	16.58	2.00	18.58	106.9	0.00	84.63	-	-	0.00	0.00	-
RAH04	3 525	3 529	0	20.51	2.00	22.51	106.9	0.00	81.95	-	-	0.00	0.00	-
RAH05	4 214	4 218	0	18.25	2.00	20.25	106.9	0.00	83.50	-	-	0.00	0.00	-
RAH06	3 717	3 721	0	19.84	2.00	21.84	106.9	0.00	82.41	-	-	0.00	0.00	-
RAH07	2 138	2 144	0	26.57	2.00	28.57	106.9	0.00	77.63	-	-	0.00	0.00	-
RAH08	2 063	2 069	0	26.99	2.00	28.99	106.9	0.00	77.32	-	-	0.00	0.00	-
RAH09	2 797	2 802	0	23.37	2.00	25.37	106.9	0.00	79.95	-	-	0.00	0.00	-
RAH10	2 708	2 713	0	23.76	2.00	25.76	106.9	0.00	79.67	-	-	0.00	0.00	-
RAH11	5 727	5 730	0	14.49	2.00	16.49	106.9	0.00	86.16	-	-	0.00	0.00	-
RAH12	5 838	5 840	0	14.27	2.00	16.27	106.9	0.00	86.33	-	-	0.00	0.00	-
RAH13	6 697	6 700	0	12.69	2.00	14.69	106.9	0.00	87.52	-	-	0.00	0.00	-
RAH14	6 631	6 633	0	12.80	2.00	14.80	106.9	0.00	87.43	-	-	0.00	0.00	-
RAH15	7 769	7 771	0	10.93	2.00	12.93	106.9	0.00	88.81	-	-	0.00	0.00	-
RAH16	7 431	7 433	0	11.46	2.00	13.46	106.9	0.00	88.42	-	-	0.00	0.00	-
RAH17	8 173	8 175	0	10.33	2.00	12.33	106.9	0.00	89.25	-	-	0.00	0.00	-
RAH18	8 248	8 250	0	10.22	2.00	12.22	106.9	0.00	89.33	-	-	0.00	0.00	-
RAH19	9 026	9 028	0	9.13	2.00	11.13	106.9	0.00	90.11	-	-	0.00	0.00	-
SIL01	13 740	13 742	0	-1.15	2.00	0.85	108.5	0.00	93.76	-	-	0.00	0.00	-
SIL02	13 604	13 605	0	-1.02	2.00	0.98	108.5	0.00	93.67	-	-	0.00	0.00	-
SIL03	13 261	13 262	0	-0.68	2.00	1.32	108.5	0.00	93.45	-	-	0.00	0.00	-
SIL04	12 971	12 972	0	-0.38	2.00	1.62	108.5	0.00	93.26	-	-	0.00	0.00	-
SIL05	13 226	13 227	0	-0.64	2.00	1.36	108.5	0.00	93.43	-	-	0.00	0.00	-
SIL06	13 150	13 151	0	-0.56	2.00	1.44	108.5	0.00	93.38	-	-	0.00	0.00	-
SIL07	12 576	12 577	0	0.03	2.00	2.03	108.5	0.00	92.99	-	-	0.00	0.00	-
SIL08	12 597	12 599	0	0.01	2.00	2.01	108.5	0.00	93.01	-	-	0.00	0.00	-
Sum						35.59								

- Data undefined due to calculation with octave data

Noise sensitive area: H Noise sensitive point: Finnish normal frequency - User defined (22)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	8 021	8 023	0	8.14	2.00	10.14	107.2	0.00	89.09	-	-	0.00	0.00	-
KAR02	8 947	8 949	0	6.81	2.00	8.81	107.2	0.00	90.04	-	-	0.00	0.00	-
KAR03	8 699	8 701	0	7.15	2.00	9.15	107.2	0.00	89.79	-	-	0.00	0.00	-
KAR04	8 625	8 627	0	7.26	2.00	9.26	107.2	0.00	89.72	-	-	0.00	0.00	-
KAR05	8 547	8 549	0	7.37	2.00	9.37	107.2	0.00	89.64	-	-	0.00	0.00	-
KAR06	9 385	9 386	0	6.23	2.00	8.23	107.2	0.00	90.45	-	-	0.00	0.00	-
KAR07	9 885	9 886	0	5.59	2.00	7.59	107.2	0.00	90.90	-	-	0.00	0.00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

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No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR08	10 459	10 461	0	4.90	2.00	6.90	107.2	0.00	91.39	-	-	0.00	0.00	-
KAR09	9 177	9 179	0	6.50	2.00	8.50	107.2	0.00	90.26	-	-	0.00	0.00	-
KAR10	9 445	9 447	0	6.15	2.00	8.15	107.2	0.00	90.51	-	-	0.00	0.00	-
KAR11	10 142	10 143	0	5.28	2.00	7.28	107.2	0.00	91.12	-	-	0.00	0.00	-
KAR12	10 170	10 172	0	5.24	2.00	7.24	107.2	0.00	91.15	-	-	0.00	0.00	-
KAR13	10 716	10 718	0	4.60	2.00	6.60	107.2	0.00	91.60	-	-	0.00	0.00	-
KAR14	10 111	10 113	0	5.31	2.00	7.31	107.2	0.00	91.10	-	-	0.00	0.00	-
KAR15	11 105	11 107	0	4.17	2.00	6.17	107.2	0.00	91.91	-	-	0.00	0.00	-
KAR16	10 769	10 770	0	4.54	2.00	6.54	107.2	0.00	91.64	-	-	0.00	0.00	-
KAR17	11 139	11 140	0	4.13	2.00	6.13	107.2	0.00	91.94	-	-	0.00	0.00	-
KAR18	10 701	10 703	0	4.62	2.00	6.62	107.2	0.00	91.59	-	-	0.00	0.00	-
KAR19	11 881	11 882	0	3.34	2.00	5.34	107.2	0.00	92.50	-	-	0.00	0.00	-
KAR20	11 465	11 467	0	3.78	2.00	5.78	107.2	0.00	92.19	-	-	0.00	0.00	-
KAR21	11 789	11 791	0	3.44	2.00	5.44	107.2	0.00	92.43	-	-	0.00	0.00	-
KAR22	12 177	12 179	0	3.04	2.00	5.04	107.2	0.00	92.71	-	-	0.00	0.00	-
KAR23	12 528	12 529	0	2.69	2.00	4.69	107.2	0.00	92.96	-	-	0.00	0.00	-
KAR24	7 604	7 606	0	8.79	2.00	10.79	107.2	0.00	88.62	-	-	0.00	0.00	-
KAR25	8 365	8 367	0	7.63	2.00	9.63	107.2	0.00	89.45	-	-	0.00	0.00	-
MAA01	7 093	7 095	0	9.82	2.00	11.82	107.2	0.00	88.02	-	-	0.00	0.00	-
MAA03	7 826	7 827	0	8.61	2.00	10.61	107.2	0.00	88.87	-	-	0.00	0.00	-
MAA04	8 671	8 672	0	7.35	2.00	9.35	107.2	0.00	89.76	-	-	0.00	0.00	-
MAA05	8 551	8 553	0	7.52	2.00	9.52	107.2	0.00	89.64	-	-	0.00	0.00	-
MAA06	9 759	9 760	0	5.89	2.00	7.89	107.2	0.00	90.79	-	-	0.00	0.00	-
MAA07	10 331	10 332	0	5.19	2.00	7.19	107.2	0.00	91.28	-	-	0.00	0.00	-
MAA08	10 731	10 732	0	4.72	2.00	6.72	107.2	0.00	91.61	-	-	0.00	0.00	-
RAH01	6 312	6 314	0	13.38	2.00	15.38	106.9	0.00	87.01	-	-	0.00	0.00	-
RAH02	7 162	7 164	0	11.90	2.00	13.90	106.9	0.00	88.10	-	-	0.00	0.00	-
RAH03	6 662	6 664	0	12.75	2.00	14.75	106.9	0.00	87.47	-	-	0.00	0.00	-
RAH04	7 846	7 847	0	10.82	2.00	12.82	106.9	0.00	88.89	-	-	0.00	0.00	-
RAH05	7 623	7 625	0	11.16	2.00	13.16	106.9	0.00	88.64	-	-	0.00	0.00	-
RAH06	8 371	8 373	0	10.04	2.00	12.04	106.9	0.00	89.46	-	-	0.00	0.00	-
RAH07	9 716	9 717	0	8.23	2.00	10.23	106.9	0.00	90.75	-	-	0.00	0.00	-
RAH08	9 182	9 183	0	8.92	2.00	10.92	106.9	0.00	90.26	-	-	0.00	0.00	-
RAH09	8 878	8 879	0	9.33	2.00	11.33	106.9	0.00	89.97	-	-	0.00	0.00	-
RAH10	8 416	8 418	0	9.97	2.00	11.97	106.9	0.00	89.50	-	-	0.00	0.00	-
RAH11	5 562	5 564	0	14.82	2.00	16.82	106.9	0.00	85.91	-	-	0.00	0.00	-
RAH12	5 168	5 170	0	15.64	2.00	17.64	106.9	0.00	85.27	-	-	0.00	0.00	-
RAH13	4 456	4 458	0	17.54	2.00	19.54	106.9	0.00	83.98	-	-	0.00	0.00	-
RAH14	4 856	4 858	0	16.43	2.00	18.43	106.9	0.00	84.73	-	-	0.00	0.00	-
RAH15	3 662	3 665	0	20.04	2.00	22.04	106.9	0.00	82.28	-	-	0.00	0.00	-
RAH16	3 557	3 560	0	20.40	2.00	22.40	106.9	0.00	82.03	-	-	0.00	0.00	-
RAH17	4 469	4 473	0	17.50	2.00	19.50	106.9	0.00	84.01	-	-	0.00	0.00	-
RAH18	3 833	3 837	0	19.46	2.00	21.46	106.9	0.00	82.68	-	-	0.00	0.00	-
RAH19	4 082	4 086	0	18.66	2.00	20.66	106.9	0.00	83.23	-	-	0.00	0.00	-
SIL01	2 907	2 911	0	21.00	2.00	23.00	108.5	0.00	80.28	-	-	0.00	0.00	-
SIL02	3 009	3 013	0	20.49	2.00	22.49	108.5	0.00	80.58	-	-	0.00	0.00	-
SIL03	3 059	3 063	0	20.24	2.00	22.24	108.5	0.00	80.72	-	-	0.00	0.00	-
SIL04	2 509	2 513	0	23.15	2.00	25.15	108.5	0.00	79.00	-	-	0.00	0.00	-
SIL05	2 346	2 351	0	24.10	2.00	26.10	108.5	0.00	78.43	-	-	0.00	0.00	-
SIL06	2 384	2 389	0	23.87	2.00	25.87	108.5	0.00	78.56	-	-	0.00	0.00	-
SIL07	1 889	1 895	0	27.10	2.00	29.10	108.5	0.00	76.55	-	-	0.00	0.00	-
SIL08	1 727	1 734	0	28.29	2.00	30.29	108.5	0.00	75.78	-	-	0.00	0.00	-
Sum						36.90								

- Data undefined due to calculation with octave data

Noise sensitive area: I Noise sensitive point: Finnish normal frequency - User defined (20)

Wind speed: 8.0 m/s

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	7 091	7 094	0	9.64	2.00	11.64	107.2	0.00	88.02	-	-	0.00	0.00	-
KAR02	7 899	7 902	0	8.33	2.00	10.33	107.2	0.00	88.95	-	-	0.00	0.00	-

To be continued on next page...

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

...continued from previous page

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR03	7 744	7 746	0	8.57	2.00	10.57	107.2	0.00	88.78	-	-	0.00	0.00	-
KAR04	7 781	7 784	0	8.51	2.00	10.51	107.2	0.00	88.82	-	-	0.00	0.00	-
KAR05	7 821	7 824	0	8.45	2.00	10.45	107.2	0.00	88.87	-	-	0.00	0.00	-
KAR06	8 446	8 448	0	7.51	2.00	9.51	107.2	0.00	89.53	-	-	0.00	0.00	-
KAR07	8 854	8 856	0	6.94	2.00	8.94	107.2	0.00	89.94	-	-	0.00	0.00	-
KAR08	9 355	9 357	0	6.26	2.00	8.26	107.2	0.00	90.42	-	-	0.00	0.00	-
KAR09	8 465	8 467	0	7.49	2.00	9.49	107.2	0.00	89.55	-	-	0.00	0.00	-
KAR10	8 634	8 636	0	7.24	2.00	9.24	107.2	0.00	89.73	-	-	0.00	0.00	-
KAR11	9 196	9 197	0	6.47	2.00	8.47	107.2	0.00	90.27	-	-	0.00	0.00	-
KAR12	9 355	9 357	0	6.26	2.00	8.26	107.2	0.00	90.42	-	-	0.00	0.00	-
KAR13	9 756	9 758	0	5.75	2.00	7.75	107.2	0.00	90.79	-	-	0.00	0.00	-
KAR14	9 383	9 386	0	6.23	2.00	8.23	107.2	0.00	90.45	-	-	0.00	0.00	-
KAR15	10 082	10 084	0	5.35	2.00	7.35	107.2	0.00	91.07	-	-	0.00	0.00	-
KAR16	9 997	9 999	0	5.45	2.00	7.45	107.2	0.00	91.00	-	-	0.00	0.00	-
KAR17	10 288	10 290	0	5.10	2.00	7.10	107.2	0.00	91.25	-	-	0.00	0.00	-
KAR18	10 029	10 031	0	5.41	2.00	7.41	107.2	0.00	91.03	-	-	0.00	0.00	-
KAR19	10 873	10 875	0	4.43	2.00	6.43	107.2	0.00	91.73	-	-	0.00	0.00	-
KAR20	10 686	10 688	0	4.64	2.00	6.64	107.2	0.00	91.58	-	-	0.00	0.00	-
KAR21	10 916	10 917	0	4.38	2.00	6.38	107.2	0.00	91.76	-	-	0.00	0.00	-
KAR22	11 250	11 251	0	4.01	2.00	6.01	107.2	0.00	92.02	-	-	0.00	0.00	-
KAR23	11 651	11 653	0	3.58	2.00	5.58	107.2	0.00	92.33	-	-	0.00	0.00	-
KAR24	6 772	6 774	0	10.20	2.00	12.20	107.2	0.00	87.62	-	-	0.00	0.00	-
KAR25	7 308	7 310	0	9.28	2.00	11.28	107.2	0.00	88.28	-	-	0.00	0.00	-
MAA01	5 542	5 543	0	12.84	2.00	14.84	107.2	0.00	85.88	-	-	0.00	0.00	-
MAA03	6 269	6 270	0	11.34	2.00	13.34	107.2	0.00	86.95	-	-	0.00	0.00	-
MAA04	7 141	7 143	0	9.74	2.00	11.74	107.2	0.00	88.08	-	-	0.00	0.00	-
MAA05	6 993	6 994	0	10.00	2.00	12.00	107.2	0.00	87.89	-	-	0.00	0.00	-
MAA06	8 203	8 205	0	8.03	2.00	10.03	107.2	0.00	89.28	-	-	0.00	0.00	-
MAA07	8 783	8 784	0	7.19	2.00	9.19	107.2	0.00	89.87	-	-	0.00	0.00	-
MAA08	9 192	9 193	0	6.63	2.00	8.63	107.2	0.00	90.27	-	-	0.00	0.00	-
RAH01	4 766	4 768	0	16.67	2.00	18.67	106.9	0.00	84.57	-	-	0.00	0.00	-
RAH02	5 616	5 618	0	14.71	2.00	16.71	106.9	0.00	85.99	-	-	0.00	0.00	-
RAH03	5 100	5 103	0	15.79	2.00	17.79	106.9	0.00	85.16	-	-	0.00	0.00	-
RAH04	6 294	6 296	0	13.41	2.00	15.41	106.9	0.00	86.98	-	-	0.00	0.00	-
RAH05	6 060	6 062	0	13.84	2.00	15.84	106.9	0.00	86.65	-	-	0.00	0.00	-
RAH06	6 808	6 810	0	12.50	2.00	14.50	106.9	0.00	87.66	-	-	0.00	0.00	-
RAH07	8 168	8 170	0	10.33	2.00	12.33	106.9	0.00	89.24	-	-	0.00	0.00	-
RAH08	7 652	7 653	0	11.12	2.00	13.12	106.9	0.00	88.68	-	-	0.00	0.00	-
RAH09	7 325	7 327	0	11.63	2.00	13.63	106.9	0.00	88.30	-	-	0.00	0.00	-
RAH10	6 887	6 888	0	12.36	2.00	14.36	106.9	0.00	87.76	-	-	0.00	0.00	-
RAH11	4 000	4 003	0	18.92	2.00	20.92	106.9	0.00	83.05	-	-	0.00	0.00	-
RAH12	3 628	3 631	0	20.15	2.00	22.15	106.9	0.00	82.20	-	-	0.00	0.00	-
RAH13	2 894	2 898	0	22.96	2.00	24.96	106.9	0.00	80.24	-	-	0.00	0.00	-
RAH14	3 300	3 303	0	21.34	2.00	23.34	106.9	0.00	81.38	-	-	0.00	0.00	-
RAH15	2 131	2 137	0	26.61	2.00	28.61	106.9	0.00	77.60	-	-	0.00	0.00	-
RAH16	2 009	2 015	0	27.30	2.00	29.30	106.9	0.00	77.09	-	-	0.00	0.00	-
RAH17	3 127	3 132	0	22.00	2.00	24.00	106.9	0.00	80.92	-	-	0.00	0.00	-
RAH18	2 444	2 450	0	24.99	2.00	26.99	106.9	0.00	78.78	-	-	0.00	0.00	-
RAH19	2 952	2 957	0	22.71	2.00	24.71	106.9	0.00	80.42	-	-	0.00	0.00	-
SIL01	4 336	4 339	0	14.90	2.00	16.90	108.5	0.00	83.75	-	-	0.00	0.00	-
SIL02	4 248	4 251	0	15.23	2.00	17.23	108.5	0.00	83.57	-	-	0.00	0.00	-
SIL03	4 051	4 054	0	15.96	2.00	17.96	108.5	0.00	83.16	-	-	0.00	0.00	-
SIL04	3 644	3 647	0	17.60	2.00	19.60	108.5	0.00	82.24	-	-	0.00	0.00	-
SIL05	3 843	3 846	0	16.78	2.00	18.78	108.5	0.00	82.70	-	-	0.00	0.00	-
SIL06	3 748	3 751	0	17.16	2.00	19.16	108.5	0.00	82.48	-	-	0.00	0.00	-
SIL07	3 181	3 185	0	19.66	2.00	21.66	108.5	0.00	81.06	-	-	0.00	0.00	-
SIL08	3 210	3 214	0	19.52	2.00	21.52	108.5	0.00	81.14	-	-	0.00	0.00	-
Sum						36.83								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: J Noise sensitive point: Finnish normal frequency - User defined (3)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	10 316	10 318	0	5.07	2.00	7.07	107.2	0.00	91.27	-	-	0.00	0.00	-
KAR02	9 839	9 841	0	5.65	2.00	7.65	107.2	0.00	90.86	-	-	0.00	0.00	-
KAR03	10 378	10 380	0	5.00	2.00	7.00	107.2	0.00	91.32	-	-	0.00	0.00	-
KAR04	11 040	11 042	0	4.24	2.00	6.24	107.2	0.00	91.86	-	-	0.00	0.00	-
KAR05	11 678	11 680	0	3.55	2.00	5.55	107.2	0.00	92.35	-	-	0.00	0.00	-
KAR06	10 747	10 749	0	4.57	2.00	6.57	107.2	0.00	91.63	-	-	0.00	0.00	-
KAR07	10 300	10 302	0	5.09	2.00	7.09	107.2	0.00	91.26	-	-	0.00	0.00	-
KAR08	9 951	9 953	0	5.51	2.00	7.51	107.2	0.00	90.96	-	-	0.00	0.00	-
KAR09	12 053	12 055	0	3.17	2.00	5.17	107.2	0.00	92.62	-	-	0.00	0.00	-
KAR10	11 595	11 597	0	3.64	2.00	5.64	107.2	0.00	92.29	-	-	0.00	0.00	-
KAR11	11 027	11 029	0	4.25	2.00	6.25	107.2	0.00	91.85	-	-	0.00	0.00	-
KAR12	11 934	11 935	0	3.29	2.00	5.29	107.2	0.00	92.54	-	-	0.00	0.00	-
KAR13	11 203	11 205	0	4.06	2.00	6.06	107.2	0.00	91.99	-	-	0.00	0.00	-
KAR14	12 455	12 457	0	2.76	2.00	4.76	107.2	0.00	92.91	-	-	0.00	0.00	-
KAR15	10 905	10 907	0	4.39	2.00	6.39	107.2	0.00	91.75	-	-	0.00	0.00	-
KAR16	12 543	12 545	0	2.68	2.00	4.68	107.2	0.00	92.97	-	-	0.00	0.00	-
KAR17	12 216	12 218	0	3.00	2.00	5.00	107.2	0.00	92.74	-	-	0.00	0.00	-
KAR18	13 138	13 140	0	2.11	2.00	4.11	107.2	0.00	93.37	-	-	0.00	0.00	-
KAR19	11 439	11 440	0	3.81	2.00	5.81	107.2	0.00	92.17	-	-	0.00	0.00	-
KAR20	12 900	12 902	0	2.34	2.00	4.34	107.2	0.00	93.21	-	-	0.00	0.00	-
KAR21	12 427	12 429	0	2.79	2.00	4.79	107.2	0.00	92.89	-	-	0.00	0.00	-
KAR22	12 249	12 250	0	2.97	2.00	4.97	107.2	0.00	92.76	-	-	0.00	0.00	-
KAR23	12 853	12 855	0	2.38	2.00	4.38	107.2	0.00	93.18	-	-	0.00	0.00	-
KAR24	10 731	10 733	0	4.59	2.00	6.59	107.2	0.00	91.61	-	-	0.00	0.00	-
KAR25	9 614	9 616	0	5.93	2.00	7.93	107.2	0.00	90.66	-	-	0.00	0.00	-
MAA01	5 270	5 272	0	13.45	2.00	15.45	107.2	0.00	85.44	-	-	0.00	0.00	-
MAA03	4 584	4 587	0	15.12	2.00	17.12	107.2	0.00	84.23	-	-	0.00	0.00	-
MAA04	4 837	4 840	0	14.48	2.00	16.48	107.2	0.00	84.70	-	-	0.00	0.00	-
MAA05	4 028	4 031	0	16.89	2.00	18.89	107.2	0.00	83.11	-	-	0.00	0.00	-
MAA06	3 545	3 549	0	18.64	2.00	20.64	107.2	0.00	82.00	-	-	0.00	0.00	-
MAA07	3 777	3 780	0	17.78	2.00	19.78	107.2	0.00	82.55	-	-	0.00	0.00	-
MAA08	4 086	4 089	0	16.70	2.00	18.70	107.2	0.00	83.23	-	-	0.00	0.00	-
RAH01	5 308	5 311	0	15.34	2.00	17.34	106.9	0.00	85.50	-	-	0.00	0.00	-
RAH02	4 470	4 473	0	17.50	2.00	19.50	106.9	0.00	84.01	-	-	0.00	0.00	-
RAH03	5 129	5 132	0	15.72	2.00	17.72	106.9	0.00	85.21	-	-	0.00	0.00	-
RAH04	3 835	3 838	0	19.45	2.00	21.45	106.9	0.00	82.68	-	-	0.00	0.00	-
RAH05	4 345	4 348	0	17.86	2.00	19.86	106.9	0.00	83.77	-	-	0.00	0.00	-
RAH06	3 688	3 692	0	19.94	2.00	21.94	106.9	0.00	82.35	-	-	0.00	0.00	-
RAH07	2 012	2 019	0	27.27	2.00	29.27	106.9	0.00	77.10	-	-	0.00	0.00	-
RAH08	2 405	2 411	0	25.18	2.00	27.18	106.9	0.00	78.64	-	-	0.00	0.00	-
RAH09	2 872	2 877	0	23.05	2.00	25.05	106.9	0.00	80.18	-	-	0.00	0.00	-
RAH10	3 170	3 174	0	21.83	2.00	23.83	106.9	0.00	81.03	-	-	0.00	0.00	-
RAH11	6 172	6 174	0	13.63	2.00	15.63	106.9	0.00	86.81	-	-	0.00	0.00	-
RAH12	6 430	6 432	0	13.16	2.00	15.16	106.9	0.00	87.17	-	-	0.00	0.00	-
RAH13	7 228	7 230	0	11.79	2.00	13.79	106.9	0.00	88.18	-	-	0.00	0.00	-
RAH14	7 043	7 045	0	12.10	2.00	14.10	106.9	0.00	87.96	-	-	0.00	0.00	-
RAH15	8 247	8 249	0	10.22	2.00	12.22	106.9	0.00	89.33	-	-	0.00	0.00	-
RAH16	8 050	8 052	0	10.51	2.00	12.51	106.9	0.00	89.12	-	-	0.00	0.00	-
RAH17	8 430	8 432	0	9.95	2.00	11.95	106.9	0.00	89.52	-	-	0.00	0.00	-
RAH18	8 613	8 615	0	9.69	2.00	11.69	106.9	0.00	89.70	-	-	0.00	0.00	-
RAH19	9 287	9 289	0	8.78	2.00	10.78	106.9	0.00	90.36	-	-	0.00	0.00	-
SIL01	14 376	14 377	0	-1.75	2.00	0.25	108.5	0.00	94.15	-	-	0.00	0.00	-
SIL02	14 167	14 168	0	-1.56	2.00	0.44	108.5	0.00	94.03	-	-	0.00	0.00	-
SIL03	13 759	13 760	0	-1.17	2.00	0.83	108.5	0.00	93.77	-	-	0.00	0.00	-
SIL04	13 523	13 524	0	-0.94	2.00	1.06	108.5	0.00	93.62	-	-	0.00	0.00	-
SIL05	13 899	13 901	0	-1.30	2.00	0.70	108.5	0.00	93.86	-	-	0.00	0.00	-
SIL06	13 767	13 768	0	-1.18	2.00	0.82	108.5	0.00	93.78	-	-	0.00	0.00	-
SIL07	13 184	13 185	0	-0.60	2.00	1.40	108.5	0.00	93.40	-	-	0.00	0.00	-
SIL08	13 267	13 268	0	-0.68	2.00	1.32	108.5	0.00	93.46	-	-	0.00	0.00	-
Sum						35.22								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: K Noise sensitive point: Finnish normal frequency - User defined (13)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	9 242	9 244	0	6.41	2.00	8.41	107.2	0.00	90.32	-	-	0.00	0.00	-
KAR02	8 628	8 630	0	7.25	2.00	9.25	107.2	0.00	89.72	-	-	0.00	0.00	-
KAR03	9 214	9 216	0	6.45	2.00	8.45	107.2	0.00	90.29	-	-	0.00	0.00	-
KAR04	9 905	9 908	0	5.57	2.00	7.57	107.2	0.00	90.92	-	-	0.00	0.00	-
KAR05	10 578	10 580	0	4.76	2.00	6.76	107.2	0.00	91.49	-	-	0.00	0.00	-
KAR06	9 506	9 508	0	6.07	2.00	8.07	107.2	0.00	90.56	-	-	0.00	0.00	-
KAR07	8 983	8 985	0	6.76	2.00	8.76	107.2	0.00	90.07	-	-	0.00	0.00	-
KAR08	8 554	8 557	0	7.36	2.00	9.36	107.2	0.00	89.65	-	-	0.00	0.00	-
KAR09	10 891	10 893	0	4.41	2.00	6.41	107.2	0.00	91.74	-	-	0.00	0.00	-
KAR10	10 380	10 382	0	4.99	2.00	6.99	107.2	0.00	91.33	-	-	0.00	0.00	-
KAR11	9 707	9 709	0	5.81	2.00	7.81	107.2	0.00	90.74	-	-	0.00	0.00	-
KAR12	10 650	10 652	0	4.68	2.00	6.68	107.2	0.00	91.55	-	-	0.00	0.00	-
KAR13	9 826	9 828	0	5.66	2.00	7.66	107.2	0.00	90.85	-	-	0.00	0.00	-
KAR14	11 204	11 206	0	4.06	2.00	6.06	107.2	0.00	91.99	-	-	0.00	0.00	-
KAR15	9 475	9 478	0	6.11	2.00	8.11	107.2	0.00	90.53	-	-	0.00	0.00	-
KAR16	11 223	11 225	0	4.04	2.00	6.04	107.2	0.00	92.00	-	-	0.00	0.00	-
KAR17	10 842	10 843	0	4.46	2.00	6.46	107.2	0.00	91.70	-	-	0.00	0.00	-
KAR18	11 857	11 859	0	3.37	2.00	5.37	107.2	0.00	92.48	-	-	0.00	0.00	-
KAR19	9 956	9 958	0	5.50	2.00	7.50	107.2	0.00	90.96	-	-	0.00	0.00	-
KAR20	11 527	11 529	0	3.71	2.00	5.71	107.2	0.00	92.24	-	-	0.00	0.00	-
KAR21	10 999	11 001	0	4.29	2.00	6.29	107.2	0.00	91.83	-	-	0.00	0.00	-
KAR22	10 775	10 777	0	4.54	2.00	6.54	107.2	0.00	91.65	-	-	0.00	0.00	-
KAR23	11 378	11 380	0	3.87	2.00	5.87	107.2	0.00	92.12	-	-	0.00	0.00	-
KAR24	9 724	9 726	0	5.79	2.00	7.79	107.2	0.00	90.76	-	-	0.00	0.00	-
KAR25	8 478	8 480	0	7.47	2.00	9.47	107.2	0.00	89.57	-	-	0.00	0.00	-
MAA01	4 830	4 832	0	14.50	2.00	16.50	107.2	0.00	84.68	-	-	0.00	0.00	-
MAA03	4 070	4 073	0	16.75	2.00	18.75	107.2	0.00	83.20	-	-	0.00	0.00	-
MAA04	3 881	3 884	0	17.40	2.00	19.40	107.2	0.00	82.79	-	-	0.00	0.00	-
MAA05	3 373	3 377	0	19.31	2.00	21.31	107.2	0.00	81.57	-	-	0.00	0.00	-
MAA06	2 453	2 458	0	23.54	2.00	25.54	107.2	0.00	78.81	-	-	0.00	0.00	-
MAA07	2 410	2 415	0	23.77	2.00	25.77	107.2	0.00	78.66	-	-	0.00	0.00	-
MAA08	2 580	2 585	0	22.88	2.00	24.88	107.2	0.00	79.25	-	-	0.00	0.00	-
RAH01	5 427	5 430	0	15.09	2.00	17.09	106.9	0.00	85.70	-	-	0.00	0.00	-
RAH02	4 590	4 593	0	17.15	2.00	19.15	106.9	0.00	84.24	-	-	0.00	0.00	-
RAH03	5 042	5 045	0	15.94	2.00	17.94	106.9	0.00	85.06	-	-	0.00	0.00	-
RAH04	3 894	3 898	0	19.26	2.00	21.26	106.9	0.00	82.82	-	-	0.00	0.00	-
RAH05	4 099	4 103	0	18.60	2.00	20.60	106.9	0.00	83.26	-	-	0.00	0.00	-
RAH06	3 351	3 355	0	21.14	2.00	23.14	106.9	0.00	81.52	-	-	0.00	0.00	-
RAH07	2 144	2 151	0	26.54	2.00	28.54	106.9	0.00	77.65	-	-	0.00	0.00	-
RAH08	2 875	2 880	0	23.03	2.00	25.03	106.9	0.00	80.19	-	-	0.00	0.00	-
RAH09	2 873	2 877	0	23.04	2.00	25.04	106.9	0.00	80.18	-	-	0.00	0.00	-
RAH10	3 544	3 547	0	20.45	2.00	22.45	106.9	0.00	82.00	-	-	0.00	0.00	-
RAH11	6 142	6 144	0	13.69	2.00	15.69	106.9	0.00	86.77	-	-	0.00	0.00	-
RAH12	6 573	6 575	0	12.91	2.00	14.91	106.9	0.00	87.36	-	-	0.00	0.00	-
RAH13	7 247	7 249	0	11.76	2.00	13.76	106.9	0.00	88.21	-	-	0.00	0.00	-
RAH14	6 918	6 920	0	12.31	2.00	14.31	106.9	0.00	87.80	-	-	0.00	0.00	-
RAH15	8 153	8 155	0	10.36	2.00	12.36	106.9	0.00	89.23	-	-	0.00	0.00	-
RAH16	8 151	8 152	0	10.36	2.00	12.36	106.9	0.00	89.23	-	-	0.00	0.00	-
RAH17	8 046	8 049	0	10.51	2.00	12.51	106.9	0.00	89.11	-	-	0.00	0.00	-
RAH18	8 360	8 362	0	10.05	2.00	12.05	106.9	0.00	89.45	-	-	0.00	0.00	-
RAH19	8 879	8 881	0	9.33	2.00	11.33	106.9	0.00	89.97	-	-	0.00	0.00	-
SIL01	14 363	14 364	0	-1.74	2.00	0.26	108.5	0.00	94.15	-	-	0.00	0.00	-
SIL02	14 056	14 057	0	-1.45	2.00	0.55	108.5	0.00	93.96	-	-	0.00	0.00	-
SIL03	13 566	13 567	0	-0.98	2.00	1.02	108.5	0.00	93.65	-	-	0.00	0.00	-
SIL04	13 406	13 407	0	-0.82	2.00	1.18	108.5	0.00	93.55	-	-	0.00	0.00	-
SIL05	13 946	13 947	0	-1.35	2.00	0.65	108.5	0.00	93.89	-	-	0.00	0.00	-
SIL06	13 736	13 737	0	-1.15	2.00	0.85	108.5	0.00	93.76	-	-	0.00	0.00	-
SIL07	13 149	13 150	0	-0.56	2.00	1.44	108.5	0.00	93.38	-	-	0.00	0.00	-
SIL08	13 315	13 316	0	-0.73	2.00	1.27	108.5	0.00	93.49	-	-	0.00	0.00	-
Sum						35.93								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: L Noise sensitive point: Finnish normal frequency - User defined (12)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	8 337	8 339	0	7.67	2.00	9.67	107.2	0.00	89.42	-	-	0.00	0.00	-
KAR02	7 667	7 670	0	8.69	2.00	10.69	107.2	0.00	88.70	-	-	0.00	0.00	-
KAR03	8 270	8 272	0	7.77	2.00	9.77	107.2	0.00	89.35	-	-	0.00	0.00	-
KAR04	8 971	8 973	0	6.78	2.00	8.78	107.2	0.00	90.06	-	-	0.00	0.00	-
KAR05	9 655	9 657	0	5.88	2.00	7.88	107.2	0.00	90.70	-	-	0.00	0.00	-
KAR06	8 531	8 534	0	7.39	2.00	9.39	107.2	0.00	89.62	-	-	0.00	0.00	-
KAR07	7 982	7 985	0	8.20	2.00	10.20	107.2	0.00	89.05	-	-	0.00	0.00	-
KAR08	7 531	7 533	0	8.91	2.00	10.91	107.2	0.00	88.54	-	-	0.00	0.00	-
KAR09	9 941	9 944	0	5.52	2.00	7.52	107.2	0.00	90.95	-	-	0.00	0.00	-
KAR10	9 412	9 414	0	6.19	2.00	8.19	107.2	0.00	90.48	-	-	0.00	0.00	-
KAR11	8 703	8 706	0	7.15	2.00	9.15	107.2	0.00	89.80	-	-	0.00	0.00	-
KAR12	9 657	9 659	0	5.88	2.00	7.88	107.2	0.00	90.70	-	-	0.00	0.00	-
KAR13	8 806	8 808	0	7.00	2.00	9.00	107.2	0.00	89.90	-	-	0.00	0.00	-
KAR14	10 220	10 222	0	5.18	2.00	7.18	107.2	0.00	91.19	-	-	0.00	0.00	-
KAR15	8 442	8 444	0	7.52	2.00	9.52	107.2	0.00	89.53	-	-	0.00	0.00	-
KAR16	10 217	10 219	0	5.19	2.00	7.19	107.2	0.00	91.19	-	-	0.00	0.00	-
KAR17	9 820	9 822	0	5.67	2.00	7.67	107.2	0.00	90.84	-	-	0.00	0.00	-
KAR18	10 862	10 864	0	4.44	2.00	6.44	107.2	0.00	91.72	-	-	0.00	0.00	-
KAR19	8 912	8 914	0	6.86	2.00	8.86	107.2	0.00	90.00	-	-	0.00	0.00	-
KAR20	10 505	10 508	0	4.85	2.00	6.85	107.2	0.00	91.43	-	-	0.00	0.00	-
KAR21	9 964	9 966	0	5.49	2.00	7.49	107.2	0.00	90.97	-	-	0.00	0.00	-
KAR22	9 732	9 735	0	5.78	2.00	7.78	107.2	0.00	90.77	-	-	0.00	0.00	-
KAR23	10 334	10 336	0	5.05	2.00	7.05	107.2	0.00	91.29	-	-	0.00	0.00	-
KAR24	8 847	8 849	0	6.95	2.00	8.95	107.2	0.00	89.94	-	-	0.00	0.00	-
KAR25	7 551	7 553	0	8.88	2.00	10.88	107.2	0.00	88.56	-	-	0.00	0.00	-
MAA01	4 372	4 375	0	15.76	2.00	17.76	107.2	0.00	83.82	-	-	0.00	0.00	-
MAA03	3 615	3 618	0	18.37	2.00	20.37	107.2	0.00	82.17	-	-	0.00	0.00	-
MAA04	3 144	3 147	0	20.26	2.00	22.26	107.2	0.00	80.96	-	-	0.00	0.00	-
MAA05	2 886	2 889	0	21.41	2.00	23.41	107.2	0.00	80.22	-	-	0.00	0.00	-
MAA06	1 750	1 756	0	27.82	2.00	29.82	107.2	0.00	75.89	-	-	0.00	0.00	-
MAA07	1 484	1 492	0	29.81	2.00	31.81	107.2	0.00	74.48	-	-	0.00	0.00	-
MAA08	1 556	1 564	0	29.24	2.00	31.24	107.2	0.00	74.88	-	-	0.00	0.00	-
RAH01	5 287	5 290	0	15.39	2.00	17.39	106.9	0.00	85.47	-	-	0.00	0.00	-
RAH02	4 501	4 504	0	17.41	2.00	19.41	106.9	0.00	84.07	-	-	0.00	0.00	-
RAH03	4 795	4 797	0	16.59	2.00	18.59	106.9	0.00	84.62	-	-	0.00	0.00	-
RAH04	3 824	3 828	0	19.49	2.00	21.49	106.9	0.00	82.66	-	-	0.00	0.00	-
RAH05	3 817	3 820	0	19.51	2.00	21.51	106.9	0.00	82.64	-	-	0.00	0.00	-
RAH06	3 086	3 090	0	22.17	2.00	24.17	106.9	0.00	80.80	-	-	0.00	0.00	-
RAH07	2 420	2 425	0	25.11	2.00	27.11	106.9	0.00	78.70	-	-	0.00	0.00	-
RAH08	3 180	3 184	0	21.80	2.00	23.80	106.9	0.00	81.06	-	-	0.00	0.00	-
RAH09	2 901	2 906	0	22.93	2.00	24.93	106.9	0.00	80.26	-	-	0.00	0.00	-
RAH10	3 702	3 705	0	19.90	2.00	21.90	106.9	0.00	82.38	-	-	0.00	0.00	-
RAH11	5 879	5 881	0	14.19	2.00	16.19	106.9	0.00	86.39	-	-	0.00	0.00	-
RAH12	6 401	6 403	0	13.21	2.00	15.21	106.9	0.00	87.13	-	-	0.00	0.00	-
RAH13	6 979	6 981	0	12.20	2.00	14.20	106.9	0.00	87.88	-	-	0.00	0.00	-
RAH14	6 571	6 573	0	12.91	2.00	14.91	106.9	0.00	87.36	-	-	0.00	0.00	-
RAH15	7 795	7 797	0	10.89	2.00	12.89	106.9	0.00	88.84	-	-	0.00	0.00	-
RAH16	7 910	7 912	0	10.72	2.00	12.72	106.9	0.00	88.97	-	-	0.00	0.00	-
RAH17	7 520	7 522	0	11.32	2.00	13.32	106.9	0.00	88.53	-	-	0.00	0.00	-
RAH18	7 904	7 906	0	10.73	2.00	12.73	106.9	0.00	88.96	-	-	0.00	0.00	-
RAH19	8 325	8 327	0	10.10	2.00	12.10	106.9	0.00	89.41	-	-	0.00	0.00	-
SIL01	13 980	13 982	0	-1.38	2.00	0.62	108.5	0.00	93.91	-	-	0.00	0.00	-
SIL02	13 620	13 621	0	-1.03	2.00	0.97	108.5	0.00	93.68	-	-	0.00	0.00	-
SIL03	13 086	13 087	0	-0.50	2.00	1.50	108.5	0.00	93.34	-	-	0.00	0.00	-
SIL04	12 970	12 971	0	-0.38	2.00	1.62	108.5	0.00	93.26	-	-	0.00	0.00	-
SIL05	13 601	13 602	0	-1.02	2.00	0.98	108.5	0.00	93.67	-	-	0.00	0.00	-
SIL06	13 347	13 348	0	-0.76	2.00	1.24	108.5	0.00	93.51	-	-	0.00	0.00	-
SIL07	12 762	12 763	0	-0.16	2.00	1.84	108.5	0.00	93.12	-	-	0.00	0.00	-
SIL08	12 977	12 978	0	-0.39	2.00	1.61	108.5	0.00	93.26	-	-	0.00	0.00	-
Sum						38.30								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: M Noise sensitive point: Finnish normal frequency - User defined (42)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	4 197	4 201	0	16.32	2.00	18.32	107.2	0.00	83.47	-	-	0.00	0.00	-
KAR02	4 288	4 292	0	16.03	2.00	18.03	107.2	0.00	83.65	-	-	0.00	0.00	-
KAR03	4 550	4 554	0	15.21	2.00	17.21	107.2	0.00	84.17	-	-	0.00	0.00	-
KAR04	5 028	5 031	0	13.83	2.00	15.83	107.2	0.00	85.03	-	-	0.00	0.00	-
KAR05	5 512	5 515	0	12.68	2.00	14.68	107.2	0.00	85.83	-	-	0.00	0.00	-
KAR06	5 158	5 162	0	13.47	2.00	15.47	107.2	0.00	85.26	-	-	0.00	0.00	-
KAR07	5 138	5 141	0	13.53	2.00	15.53	107.2	0.00	85.22	-	-	0.00	0.00	-
KAR08	5 297	5 300	0	13.16	2.00	15.16	107.2	0.00	85.49	-	-	0.00	0.00	-
KAR09	6 038	6 041	0	11.59	2.00	13.59	107.2	0.00	86.62	-	-	0.00	0.00	-
KAR10	5 799	5 802	0	12.08	2.00	14.08	107.2	0.00	86.27	-	-	0.00	0.00	-
KAR11	5 747	5 750	0	12.19	2.00	14.19	107.2	0.00	86.19	-	-	0.00	0.00	-
KAR12	6 370	6 373	0	10.95	2.00	12.95	107.2	0.00	87.09	-	-	0.00	0.00	-
KAR13	6 177	6 180	0	11.32	2.00	13.32	107.2	0.00	86.82	-	-	0.00	0.00	-
KAR14	6 713	6 716	0	10.31	2.00	12.31	107.2	0.00	87.54	-	-	0.00	0.00	-
KAR15	6 237	6 239	0	11.20	2.00	13.20	107.2	0.00	86.90	-	-	0.00	0.00	-
KAR16	7 067	7 069	0	9.69	2.00	11.69	107.2	0.00	87.99	-	-	0.00	0.00	-
KAR17	7 035	7 037	0	9.74	2.00	11.74	107.2	0.00	87.95	-	-	0.00	0.00	-
KAR18	7 450	7 452	0	9.04	2.00	11.04	107.2	0.00	88.45	-	-	0.00	0.00	-
KAR19	7 007	7 010	0	9.79	2.00	11.79	107.2	0.00	87.91	-	-	0.00	0.00	-
KAR20	7 635	7 638	0	8.74	2.00	10.74	107.2	0.00	88.66	-	-	0.00	0.00	-
KAR21	7 509	7 512	0	8.95	2.00	10.95	107.2	0.00	88.51	-	-	0.00	0.00	-
KAR22	7 625	7 627	0	8.76	2.00	10.76	107.2	0.00	88.65	-	-	0.00	0.00	-
KAR23	8 163	8 165	0	7.93	2.00	9.93	107.2	0.00	89.24	-	-	0.00	0.00	-
KAR24	4 398	4 401	0	15.68	2.00	17.68	107.2	0.00	83.87	-	-	0.00	0.00	-
KAR25	3 803	3 807	0	17.68	2.00	19.68	107.2	0.00	82.61	-	-	0.00	0.00	-
MAA01	1 478	1 485	0	29.87	2.00	31.87	107.2	0.00	74.43	-	-	0.00	0.00	-
MAA03	2 105	2 109	0	25.51	2.00	27.51	107.2	0.00	77.48	-	-	0.00	0.00	-
MAA04	2 361	2 365	0	24.04	2.00	26.04	107.2	0.00	78.48	-	-	0.00	0.00	-
MAA05	2 720	2 723	0	22.19	2.00	24.19	107.2	0.00	79.70	-	-	0.00	0.00	-
MAA06	3 707	3 710	0	18.03	2.00	20.03	107.2	0.00	82.39	-	-	0.00	0.00	-
MAA07	4 116	4 119	0	16.60	2.00	18.60	107.2	0.00	83.29	-	-	0.00	0.00	-
MAA08	4 420	4 422	0	15.62	2.00	17.62	107.2	0.00	83.91	-	-	0.00	0.00	-
RAH01	2 743	2 747	0	23.61	2.00	25.61	106.9	0.00	79.78	-	-	0.00	0.00	-
RAH02	2 999	3 003	0	22.52	2.00	24.52	106.9	0.00	80.55	-	-	0.00	0.00	-
RAH03	2 226	2 232	0	26.10	2.00	28.10	106.9	0.00	77.97	-	-	0.00	0.00	-
RAH04	3 235	3 238	0	21.59	2.00	23.59	106.9	0.00	81.21	-	-	0.00	0.00	-
RAH05	2 476	2 481	0	24.84	2.00	26.84	106.9	0.00	78.89	-	-	0.00	0.00	-
RAH06	3 014	3 018	0	22.46	2.00	24.46	106.9	0.00	80.59	-	-	0.00	0.00	-
RAH07	4 704	4 707	0	16.84	2.00	18.84	106.9	0.00	84.45	-	-	0.00	0.00	-
RAH08	4 624	4 626	0	17.06	2.00	19.06	106.9	0.00	84.30	-	-	0.00	0.00	-
RAH09	3 906	3 909	0	19.22	2.00	21.22	106.9	0.00	82.84	-	-	0.00	0.00	-
RAH10	4 081	4 084	0	18.66	2.00	20.66	106.9	0.00	83.22	-	-	0.00	0.00	-
RAH11	2 200	2 206	0	26.24	2.00	28.24	106.9	0.00	77.87	-	-	0.00	0.00	-
RAH12	2 893	2 897	0	22.96	2.00	24.96	106.9	0.00	80.24	-	-	0.00	0.00	-
RAH13	2 708	2 712	0	23.76	2.00	25.76	106.9	0.00	79.67	-	-	0.00	0.00	-
RAH14	2 054	2 060	0	27.04	2.00	29.04	106.9	0.00	77.28	-	-	0.00	0.00	-
RAH15	2 908	2 913	0	22.90	2.00	24.90	106.9	0.00	80.29	-	-	0.00	0.00	-
RAH16	3 508	3 511	0	20.58	2.00	22.58	106.9	0.00	81.91	-	-	0.00	0.00	-
RAH17	2 135	2 142	0	26.59	2.00	28.59	106.9	0.00	77.62	-	-	0.00	0.00	-
RAH18	2 665	2 670	0	23.95	2.00	25.95	106.9	0.00	79.53	-	-	0.00	0.00	-
RAH19	2 886	2 892	0	22.98	2.00	24.98	106.9	0.00	80.22	-	-	0.00	0.00	-
SIL01	8 724	8 726	0	5.02	2.00	7.02	108.5	0.00	89.82	-	-	0.00	0.00	-
SIL02	8 274	8 276	0	5.76	2.00	7.76	108.5	0.00	89.36	-	-	0.00	0.00	-
SIL03	7 687	7 689	0	6.79	2.00	8.79	108.5	0.00	88.72	-	-	0.00	0.00	-
SIL04	7 632	7 634	0	6.89	2.00	8.89	108.5	0.00	88.65	-	-	0.00	0.00	-
SIL05	8 429	8 431	0	5.50	2.00	7.50	108.5	0.00	89.52	-	-	0.00	0.00	-
SIL06	8 088	8 089	0	6.08	2.00	8.08	108.5	0.00	89.16	-	-	0.00	0.00	-
SIL07	7 516	7 517	0	7.10	2.00	9.10	108.5	0.00	88.52	-	-	0.00	0.00	-
SIL08	7 831	7 833	0	6.53	2.00	8.53	108.5	0.00	88.88	-	-	0.00	0.00	-
Sum						40.25								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: N Noise sensitive point: Finnish normal frequency - User defined (40)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	4 134	4 138	0	16.53	2.00	18.53	107.2	0.00	83.34	-	-	0.00	0.00	-
KAR02	4 260	4 264	0	16.12	2.00	18.12	107.2	0.00	83.60	-	-	0.00	0.00	-
KAR03	4 503	4 507	0	15.35	2.00	17.35	107.2	0.00	84.08	-	-	0.00	0.00	-
KAR04	4 967	4 971	0	14.00	2.00	16.00	107.2	0.00	84.93	-	-	0.00	0.00	-
KAR05	5 439	5 443	0	12.84	2.00	14.84	107.2	0.00	85.72	-	-	0.00	0.00	-
KAR06	5 121	5 125	0	13.57	2.00	15.57	107.2	0.00	85.19	-	-	0.00	0.00	-
KAR07	5 122	5 125	0	13.57	2.00	15.57	107.2	0.00	85.19	-	-	0.00	0.00	-
KAR08	5 302	5 305	0	13.15	2.00	15.15	107.2	0.00	85.49	-	-	0.00	0.00	-
KAR09	5 973	5 976	0	11.72	2.00	13.72	107.2	0.00	86.53	-	-	0.00	0.00	-
KAR10	5 747	5 750	0	12.18	2.00	14.18	107.2	0.00	86.19	-	-	0.00	0.00	-
KAR11	5 721	5 724	0	12.24	2.00	14.24	107.2	0.00	86.15	-	-	0.00	0.00	-
KAR12	6 327	6 330	0	11.03	2.00	13.03	107.2	0.00	87.03	-	-	0.00	0.00	-
KAR13	6 160	6 163	0	11.35	2.00	13.35	107.2	0.00	86.80	-	-	0.00	0.00	-
KAR14	6 660	6 663	0	10.40	2.00	12.40	107.2	0.00	87.47	-	-	0.00	0.00	-
KAR15	6 234	6 236	0	11.21	2.00	13.21	107.2	0.00	86.90	-	-	0.00	0.00	-
KAR16	7 025	7 028	0	9.76	2.00	11.76	107.2	0.00	87.94	-	-	0.00	0.00	-
KAR17	7 006	7 009	0	9.79	2.00	11.79	107.2	0.00	87.91	-	-	0.00	0.00	-
KAR18	7 397	7 400	0	9.13	2.00	11.13	107.2	0.00	88.38	-	-	0.00	0.00	-
KAR19	7 008	7 011	0	9.79	2.00	11.79	107.2	0.00	87.92	-	-	0.00	0.00	-
KAR20	7 601	7 603	0	8.80	2.00	10.80	107.2	0.00	88.62	-	-	0.00	0.00	-
KAR21	7 489	7 492	0	8.98	2.00	10.98	107.2	0.00	88.49	-	-	0.00	0.00	-
KAR22	7 615	7 618	0	8.78	2.00	10.78	107.2	0.00	88.64	-	-	0.00	0.00	-
KAR23	8 149	8 151	0	7.95	2.00	9.95	107.2	0.00	89.22	-	-	0.00	0.00	-
KAR24	4 317	4 321	0	15.93	2.00	17.93	107.2	0.00	83.71	-	-	0.00	0.00	-
KAR25	3 764	3 768	0	17.82	2.00	19.82	107.2	0.00	82.52	-	-	0.00	0.00	-
MAA01	1 588	1 593	0	29.01	2.00	31.01	107.2	0.00	75.05	-	-	0.00	0.00	-
MAA03	2 229	2 233	0	24.78	2.00	26.78	107.2	0.00	77.98	-	-	0.00	0.00	-
MAA04	2 494	2 498	0	23.33	2.00	25.33	107.2	0.00	78.95	-	-	0.00	0.00	-
MAA05	2 851	2 854	0	21.57	2.00	23.57	107.2	0.00	80.11	-	-	0.00	0.00	-
MAA06	3 842	3 845	0	17.54	2.00	19.54	107.2	0.00	82.70	-	-	0.00	0.00	-
MAA07	4 250	4 252	0	16.16	2.00	18.16	107.2	0.00	83.57	-	-	0.00	0.00	-
MAA08	4 551	4 553	0	15.21	2.00	17.21	107.2	0.00	84.17	-	-	0.00	0.00	-
RAH01	2 787	2 791	0	23.42	2.00	25.42	106.9	0.00	79.92	-	-	0.00	0.00	-
RAH02	3 077	3 081	0	22.21	2.00	24.21	106.9	0.00	80.77	-	-	0.00	0.00	-
RAH03	2 294	2 299	0	25.75	2.00	27.75	106.9	0.00	78.23	-	-	0.00	0.00	-
RAH04	3 334	3 337	0	21.21	2.00	23.21	106.9	0.00	81.47	-	-	0.00	0.00	-
RAH05	2 583	2 588	0	24.33	2.00	26.33	106.9	0.00	79.26	-	-	0.00	0.00	-
RAH06	3 135	3 138	0	21.98	2.00	23.98	106.9	0.00	80.93	-	-	0.00	0.00	-
RAH07	4 825	4 828	0	16.51	2.00	18.51	106.9	0.00	84.67	-	-	0.00	0.00	-
RAH08	4 734	4 736	0	16.76	2.00	18.76	106.9	0.00	84.51	-	-	0.00	0.00	-
RAH09	4 022	4 025	0	18.85	2.00	20.85	106.9	0.00	83.10	-	-	0.00	0.00	-
RAH10	4 181	4 184	0	18.35	2.00	20.35	106.9	0.00	83.43	-	-	0.00	0.00	-
RAH11	2 204	2 210	0	26.22	2.00	28.22	106.9	0.00	77.89	-	-	0.00	0.00	-
RAH12	2 884	2 888	0	23.00	2.00	25.00	106.9	0.00	80.21	-	-	0.00	0.00	-
RAH13	2 657	2 662	0	23.99	2.00	25.99	106.9	0.00	79.50	-	-	0.00	0.00	-
RAH14	2 002	2 008	0	27.34	2.00	29.34	106.9	0.00	77.05	-	-	0.00	0.00	-
RAH15	2 814	2 818	0	23.30	2.00	25.30	106.9	0.00	80.00	-	-	0.00	0.00	-
RAH16	3 437	3 441	0	20.83	2.00	22.83	106.9	0.00	81.73	-	-	0.00	0.00	-
RAH17	2 006	2 014	0	27.31	2.00	29.31	106.9	0.00	77.08	-	-	0.00	0.00	-
RAH18	2 546	2 552	0	24.50	2.00	26.50	106.9	0.00	79.14	-	-	0.00	0.00	-
RAH19	2 753	2 758	0	23.56	2.00	25.56	106.9	0.00	79.81	-	-	0.00	0.00	-
SIL01	8 597	8 599	0	5.22	2.00	7.22	108.5	0.00	89.69	-	-	0.00	0.00	-
SIL02	8 144	8 146	0	5.98	2.00	7.98	108.5	0.00	89.22	-	-	0.00	0.00	-
SIL03	7 555	7 556	0	7.03	2.00	9.03	108.5	0.00	88.57	-	-	0.00	0.00	-
SIL04	7 502	7 504	0	7.13	2.00	9.13	108.5	0.00	88.51	-	-	0.00	0.00	-
SIL05	8 306	8 307	0	5.70	2.00	7.70	108.5	0.00	89.39	-	-	0.00	0.00	-
SIL06	7 961	7 962	0	6.30	2.00	8.30	108.5	0.00	89.02	-	-	0.00	0.00	-
SIL07	7 390	7 391	0	7.34	2.00	9.34	108.5	0.00	88.37	-	-	0.00	0.00	-
SIL08	7 710	7 711	0	6.75	2.00	8.75	108.5	0.00	88.74	-	-	0.00	0.00	-
Sum						40.11								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: O Noise sensitive point: Finnish normal frequency - User defined (34)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	4 894	4 897	0	14.20	2.00	16.20	107.2	0.00	84.80	-	-	0.00	0.00	-
KAR02	5 973	5 976	0	11.72	2.00	13.72	107.2	0.00	86.53	-	-	0.00	0.00	-
KAR03	5 577	5 580	0	12.55	2.00	14.55	107.2	0.00	85.93	-	-	0.00	0.00	-
KAR04	5 348	5 350	0	13.05	2.00	15.05	107.2	0.00	85.57	-	-	0.00	0.00	-
KAR05	5 147	5 150	0	13.50	2.00	15.50	107.2	0.00	85.24	-	-	0.00	0.00	-
KAR06	6 209	6 211	0	11.26	2.00	13.26	107.2	0.00	86.86	-	-	0.00	0.00	-
KAR07	6 837	6 839	0	10.09	2.00	12.09	107.2	0.00	87.70	-	-	0.00	0.00	-
KAR08	7 527	7 529	0	8.92	2.00	10.92	107.2	0.00	88.53	-	-	0.00	0.00	-
KAR09	5 754	5 757	0	12.17	2.00	14.17	107.2	0.00	86.20	-	-	0.00	0.00	-
KAR10	6 107	6 110	0	11.45	2.00	13.45	107.2	0.00	86.72	-	-	0.00	0.00	-
KAR11	6 952	6 954	0	9.89	2.00	11.89	107.2	0.00	87.85	-	-	0.00	0.00	-
KAR12	6 821	6 823	0	10.12	2.00	12.12	107.2	0.00	87.68	-	-	0.00	0.00	-
KAR13	7 531	7 533	0	8.91	2.00	10.91	107.2	0.00	88.54	-	-	0.00	0.00	-
KAR14	6 684	6 687	0	10.36	2.00	12.36	107.2	0.00	87.50	-	-	0.00	0.00	-
KAR15	8 007	8 009	0	8.17	2.00	10.17	107.2	0.00	89.07	-	-	0.00	0.00	-
KAR16	7 369	7 371	0	9.18	2.00	11.18	107.2	0.00	88.35	-	-	0.00	0.00	-
KAR17	7 810	7 811	0	8.47	2.00	10.47	107.2	0.00	88.85	-	-	0.00	0.00	-
KAR18	7 231	7 233	0	9.41	2.00	11.41	107.2	0.00	88.19	-	-	0.00	0.00	-
KAR19	8 739	8 741	0	7.10	2.00	9.10	107.2	0.00	89.83	-	-	0.00	0.00	-
KAR20	8 064	8 066	0	8.08	2.00	10.08	107.2	0.00	89.13	-	-	0.00	0.00	-
KAR21	8 474	8 476	0	7.47	2.00	9.47	107.2	0.00	89.56	-	-	0.00	0.00	-
KAR22	8 920	8 921	0	6.85	2.00	8.85	107.2	0.00	90.01	-	-	0.00	0.00	-
KAR23	9 206	9 208	0	6.46	2.00	8.46	107.2	0.00	90.28	-	-	0.00	0.00	-
KAR24	4 356	4 360	0	15.81	2.00	17.81	107.2	0.00	83.79	-	-	0.00	0.00	-
KAR25	5 443	5 446	0	12.84	2.00	14.84	107.2	0.00	85.72	-	-	0.00	0.00	-
MAA01	6 397	6 398	0	11.09	2.00	13.09	107.2	0.00	87.12	-	-	0.00	0.00	-
MAA03	7 143	7 144	0	9.74	2.00	11.74	107.2	0.00	88.08	-	-	0.00	0.00	-
MAA04	7 513	7 514	0	9.11	2.00	11.11	107.2	0.00	88.52	-	-	0.00	0.00	-
MAA05	7 831	7 832	0	8.60	2.00	10.60	107.2	0.00	88.88	-	-	0.00	0.00	-
MAA06	8 875	8 875	0	7.06	2.00	9.06	107.2	0.00	89.96	-	-	0.00	0.00	-
MAA07	9 268	9 268	0	6.53	2.00	8.53	107.2	0.00	90.34	-	-	0.00	0.00	-
MAA08	9 529	9 530	0	6.18	2.00	8.18	107.2	0.00	90.58	-	-	0.00	0.00	-
RAH01	6 533	6 534	0	12.98	2.00	14.98	106.9	0.00	87.30	-	-	0.00	0.00	-
RAH02	7 270	7 271	0	11.72	2.00	13.72	106.9	0.00	88.23	-	-	0.00	0.00	-
RAH03	6 518	6 520	0	13.00	2.00	15.00	106.9	0.00	87.28	-	-	0.00	0.00	-
RAH04	7 816	7 817	0	10.86	2.00	12.86	106.9	0.00	88.86	-	-	0.00	0.00	-
RAH05	7 267	7 268	0	11.73	2.00	13.73	106.9	0.00	88.23	-	-	0.00	0.00	-
RAH06	7 960	7 961	0	10.64	2.00	12.64	106.9	0.00	89.02	-	-	0.00	0.00	-
RAH07	9 598	9 599	0	8.38	2.00	10.38	106.9	0.00	90.64	-	-	0.00	0.00	-
RAH08	9 303	9 303	0	8.76	2.00	10.76	106.9	0.00	90.37	-	-	0.00	0.00	-
RAH09	8 737	8 738	0	9.52	2.00	11.52	106.9	0.00	89.83	-	-	0.00	0.00	-
RAH10	8 598	8 599	0	9.72	2.00	11.72	106.9	0.00	89.69	-	-	0.00	0.00	-
RAH11	5 591	5 593	0	14.76	2.00	16.76	106.9	0.00	85.95	-	-	0.00	0.00	-
RAH12	5 653	5 655	0	14.64	2.00	16.64	106.9	0.00	86.05	-	-	0.00	0.00	-
RAH13	4 762	4 764	0	16.68	2.00	18.68	106.9	0.00	84.56	-	-	0.00	0.00	-
RAH14	4 684	4 686	0	16.89	2.00	18.89	106.9	0.00	84.42	-	-	0.00	0.00	-
RAH15	3 676	3 679	0	19.99	2.00	21.99	106.9	0.00	82.31	-	-	0.00	0.00	-
RAH16	4 377	4 379	0	17.77	2.00	19.77	106.9	0.00	83.83	-	-	0.00	0.00	-
RAH17	3 182	3 186	0	21.79	2.00	23.79	106.9	0.00	81.06	-	-	0.00	0.00	-
RAH18	3 062	3 066	0	22.26	2.00	24.26	106.9	0.00	80.73	-	-	0.00	0.00	-
RAH19	2 331	2 337	0	25.56	2.00	27.56	106.9	0.00	78.37	-	-	0.00	0.00	-
SIL01	4 189	4 191	0	15.45	2.00	17.45	108.5	0.00	83.45	-	-	0.00	0.00	-
SIL02	3 496	3 499	0	18.23	2.00	20.23	108.5	0.00	81.88	-	-	0.00	0.00	-
SIL03	2 752	2 756	0	21.81	2.00	23.81	108.5	0.00	79.81	-	-	0.00	0.00	-
SIL04	2 950	2 953	0	20.79	2.00	22.79	108.5	0.00	80.41	-	-	0.00	0.00	-
SIL05	4 188	4 190	0	15.45	2.00	17.45	108.5	0.00	83.44	-	-	0.00	0.00	-
SIL06	3 624	3 627	0	17.68	2.00	19.68	108.5	0.00	82.19	-	-	0.00	0.00	-
SIL07	3 199	3 202	0	19.58	2.00	21.58	108.5	0.00	81.11	-	-	0.00	0.00	-
SIL08	3 787	3 790	0	17.01	2.00	19.01	108.5	0.00	82.57	-	-	0.00	0.00	-
Sum						35.21								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: P Noise sensitive point: Finnish normal frequency - User defined (41)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	4 063	4 068	0	16.77	2.00	18.77	107.2	0.00	83.19	-	-	0.00	0.00	-
KAR02	4 163	4 167	0	16.44	2.00	18.44	107.2	0.00	83.40	-	-	0.00	0.00	-
KAR03	4 419	4 423	0	15.61	2.00	17.61	107.2	0.00	83.92	-	-	0.00	0.00	-
KAR04	4 895	4 899	0	14.20	2.00	16.20	107.2	0.00	84.80	-	-	0.00	0.00	-
KAR05	5 378	5 381	0	12.98	2.00	14.98	107.2	0.00	85.62	-	-	0.00	0.00	-
KAR06	5 030	5 034	0	13.82	2.00	15.82	107.2	0.00	85.04	-	-	0.00	0.00	-
KAR07	5 018	5 021	0	13.86	2.00	15.86	107.2	0.00	85.02	-	-	0.00	0.00	-
KAR08	5 188	5 191	0	13.41	2.00	15.41	107.2	0.00	85.31	-	-	0.00	0.00	-
KAR09	5 905	5 908	0	11.86	2.00	13.86	107.2	0.00	86.43	-	-	0.00	0.00	-
KAR10	5 667	5 670	0	12.35	2.00	14.35	107.2	0.00	86.07	-	-	0.00	0.00	-
KAR11	5 623	5 626	0	12.45	2.00	14.45	107.2	0.00	86.00	-	-	0.00	0.00	-
KAR12	6 240	6 243	0	11.19	2.00	13.19	107.2	0.00	86.91	-	-	0.00	0.00	-
KAR13	6 057	6 060	0	11.55	2.00	13.55	107.2	0.00	86.65	-	-	0.00	0.00	-
KAR14	6 581	6 584	0	10.55	2.00	12.55	107.2	0.00	87.37	-	-	0.00	0.00	-
KAR15	6 123	6 126	0	11.42	2.00	13.42	107.2	0.00	86.74	-	-	0.00	0.00	-
KAR16	6 937	6 940	0	9.91	2.00	11.91	107.2	0.00	87.83	-	-	0.00	0.00	-
KAR17	6 910	6 912	0	9.96	2.00	11.96	107.2	0.00	87.79	-	-	0.00	0.00	-
KAR18	7 318	7 321	0	9.26	2.00	11.26	107.2	0.00	88.29	-	-	0.00	0.00	-
KAR19	6 896	6 898	0	9.98	2.00	11.98	107.2	0.00	87.78	-	-	0.00	0.00	-
KAR20	7 508	7 511	0	8.95	2.00	10.95	107.2	0.00	88.51	-	-	0.00	0.00	-
KAR21	7 388	7 390	0	9.15	2.00	11.15	107.2	0.00	88.37	-	-	0.00	0.00	-
KAR22	7 508	7 510	0	8.95	2.00	10.95	107.2	0.00	88.51	-	-	0.00	0.00	-
KAR23	8 044	8 046	0	8.11	2.00	10.11	107.2	0.00	89.11	-	-	0.00	0.00	-
KAR24	4 264	4 268	0	16.11	2.00	18.11	107.2	0.00	83.60	-	-	0.00	0.00	-
KAR25	3 674	3 679	0	18.15	2.00	20.15	107.2	0.00	82.31	-	-	0.00	0.00	-
MAA01	1 605	1 612	0	28.87	2.00	30.87	107.2	0.00	75.15	-	-	0.00	0.00	-
MAA03	2 218	2 222	0	24.85	2.00	26.85	107.2	0.00	77.94	-	-	0.00	0.00	-
MAA04	2 420	2 424	0	23.72	2.00	25.72	107.2	0.00	78.69	-	-	0.00	0.00	-
MAA05	2 819	2 823	0	21.72	2.00	23.72	107.2	0.00	80.01	-	-	0.00	0.00	-
MAA06	3 784	3 787	0	17.75	2.00	19.75	107.2	0.00	82.57	-	-	0.00	0.00	-
MAA07	4 176	4 179	0	16.40	2.00	18.40	107.2	0.00	83.42	-	-	0.00	0.00	-
MAA08	4 467	4 470	0	15.47	2.00	17.47	107.2	0.00	84.01	-	-	0.00	0.00	-
RAH01	2 872	2 876	0	23.05	2.00	25.05	106.9	0.00	80.18	-	-	0.00	0.00	-
RAH02	3 133	3 137	0	21.98	2.00	23.98	106.9	0.00	80.93	-	-	0.00	0.00	-
RAH03	2 360	2 365	0	25.41	2.00	27.41	106.9	0.00	78.48	-	-	0.00	0.00	-
RAH04	3 366	3 369	0	21.09	2.00	23.09	106.9	0.00	81.55	-	-	0.00	0.00	-
RAH05	2 603	2 608	0	24.24	2.00	26.24	106.9	0.00	79.33	-	-	0.00	0.00	-
RAH06	3 131	3 135	0	21.99	2.00	23.99	106.9	0.00	80.93	-	-	0.00	0.00	-
RAH07	4 820	4 823	0	16.52	2.00	18.52	106.9	0.00	84.67	-	-	0.00	0.00	-
RAH08	4 749	4 751	0	16.71	2.00	18.71	106.9	0.00	84.54	-	-	0.00	0.00	-
RAH09	4 027	4 030	0	18.83	2.00	20.83	106.9	0.00	83.11	-	-	0.00	0.00	-
RAH10	4 212	4 214	0	18.26	2.00	20.26	106.9	0.00	83.49	-	-	0.00	0.00	-
RAH11	2 313	2 318	0	25.65	2.00	27.65	106.9	0.00	78.30	-	-	0.00	0.00	-
RAH12	2 999	3 003	0	22.52	2.00	24.52	106.9	0.00	80.55	-	-	0.00	0.00	-
RAH13	2 783	2 788	0	23.43	2.00	25.43	106.9	0.00	79.91	-	-	0.00	0.00	-
RAH14	2 128	2 134	0	26.63	2.00	28.63	106.9	0.00	77.58	-	-	0.00	0.00	-
RAH15	2 937	2 941	0	22.78	2.00	24.78	106.9	0.00	80.37	-	-	0.00	0.00	-
RAH16	3 564	3 568	0	20.38	2.00	22.38	106.9	0.00	82.05	-	-	0.00	0.00	-
RAH17	2 102	2 109	0	26.77	2.00	28.77	106.9	0.00	77.48	-	-	0.00	0.00	-
RAH18	2 655	2 661	0	24.00	2.00	26.00	106.9	0.00	79.50	-	-	0.00	0.00	-
RAH19	2 831	2 836	0	23.22	2.00	25.22	106.9	0.00	80.06	-	-	0.00	0.00	-
SIL01	8 693	8 695	0	5.07	2.00	7.07	108.5	0.00	89.78	-	-	0.00	0.00	-
SIL02	8 232	8 234	0	5.83	2.00	7.83	108.5	0.00	89.31	-	-	0.00	0.00	-
SIL03	7 636	7 638	0	6.88	2.00	8.88	108.5	0.00	88.66	-	-	0.00	0.00	-
SIL04	7 592	7 594	0	6.96	2.00	8.96	108.5	0.00	88.61	-	-	0.00	0.00	-
SIL05	8 407	8 409	0	5.53	2.00	7.53	108.5	0.00	89.49	-	-	0.00	0.00	-
SIL06	8 057	8 059	0	6.13	2.00	8.13	108.5	0.00	89.13	-	-	0.00	0.00	-
SIL07	7 487	7 489	0	7.16	2.00	9.16	108.5	0.00	88.49	-	-	0.00	0.00	-
SIL08	7 813	7 815	0	6.56	2.00	8.56	108.5	0.00	88.86	-	-	0.00	0.00	-
Sum						39.86								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: Q Noise sensitive point: Finnish normal frequency - User defined (44)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	4 135	4 139	0	16.53	2.00	18.53	107.2	0.00	83.34	-	-	0.00	0.00	-
KAR02	4 137	4 141	0	16.52	2.00	18.52	107.2	0.00	83.34	-	-	0.00	0.00	-
KAR03	4 443	4 447	0	15.54	2.00	17.54	107.2	0.00	83.96	-	-	0.00	0.00	-
KAR04	4 956	4 960	0	14.03	2.00	16.03	107.2	0.00	84.91	-	-	0.00	0.00	-
KAR05	5 473	5 476	0	12.77	2.00	14.77	107.2	0.00	85.77	-	-	0.00	0.00	-
KAR06	5 026	5 030	0	13.83	2.00	15.83	107.2	0.00	85.03	-	-	0.00	0.00	-
KAR07	4 957	4 961	0	14.02	2.00	16.02	107.2	0.00	84.91	-	-	0.00	0.00	-
KAR08	5 074	5 077	0	13.70	2.00	15.70	107.2	0.00	85.11	-	-	0.00	0.00	-
KAR09	5 977	5 980	0	11.71	2.00	13.71	107.2	0.00	86.53	-	-	0.00	0.00	-
KAR10	5 702	5 706	0	12.28	2.00	14.28	107.2	0.00	86.13	-	-	0.00	0.00	-
KAR11	5 587	5 590	0	12.52	2.00	14.52	107.2	0.00	85.95	-	-	0.00	0.00	-
KAR12	6 249	6 252	0	11.18	2.00	13.18	107.2	0.00	86.92	-	-	0.00	0.00	-
KAR13	5 998	6 001	0	11.67	2.00	13.67	107.2	0.00	86.56	-	-	0.00	0.00	-
KAR14	6 617	6 620	0	10.48	2.00	12.48	107.2	0.00	87.42	-	-	0.00	0.00	-
KAR15	6 028	6 031	0	11.61	2.00	13.61	107.2	0.00	86.61	-	-	0.00	0.00	-
KAR16	6 942	6 944	0	9.90	2.00	11.90	107.2	0.00	87.83	-	-	0.00	0.00	-
KAR17	6 879	6 881	0	10.01	2.00	12.01	107.2	0.00	87.75	-	-	0.00	0.00	-
KAR18	7 353	7 355	0	9.20	2.00	11.20	107.2	0.00	88.33	-	-	0.00	0.00	-
KAR19	6 789	6 792	0	10.17	2.00	12.17	107.2	0.00	87.64	-	-	0.00	0.00	-
KAR20	7 492	7 495	0	8.97	2.00	10.97	107.2	0.00	88.50	-	-	0.00	0.00	-
KAR21	7 333	7 336	0	9.23	2.00	11.23	107.2	0.00	88.31	-	-	0.00	0.00	-
KAR22	7 426	7 429	0	9.08	2.00	11.08	107.2	0.00	88.42	-	-	0.00	0.00	-
KAR23	7 974	7 977	0	8.21	2.00	10.21	107.2	0.00	89.04	-	-	0.00	0.00	-
KAR24	4 385	4 389	0	15.72	2.00	17.72	107.2	0.00	83.85	-	-	0.00	0.00	-
KAR25	3 680	3 684	0	18.13	2.00	20.13	107.2	0.00	82.33	-	-	0.00	0.00	-
MAA01	1 452	1 459	0	30.08	2.00	32.08	107.2	0.00	74.28	-	-	0.00	0.00	-
MAA03	1 984	1 989	0	26.26	2.00	28.26	107.2	0.00	76.97	-	-	0.00	0.00	-
MAA04	2 086	2 091	0	25.63	2.00	27.63	107.2	0.00	77.41	-	-	0.00	0.00	-
MAA05	2 543	2 546	0	23.08	2.00	25.08	107.2	0.00	79.12	-	-	0.00	0.00	-
MAA06	3 465	3 468	0	18.95	2.00	20.95	107.2	0.00	81.80	-	-	0.00	0.00	-
MAA07	3 841	3 844	0	17.55	2.00	19.55	107.2	0.00	82.69	-	-	0.00	0.00	-
MAA08	4 125	4 127	0	16.57	2.00	18.57	107.2	0.00	83.31	-	-	0.00	0.00	-
RAH01	2 894	2 898	0	22.96	2.00	24.96	106.9	0.00	80.24	-	-	0.00	0.00	-
RAH02	3 060	3 064	0	22.27	2.00	24.27	106.9	0.00	80.73	-	-	0.00	0.00	-
RAH03	2 324	2 330	0	25.59	2.00	27.59	106.9	0.00	78.35	-	-	0.00	0.00	-
RAH04	3 224	3 228	0	21.63	2.00	23.63	106.9	0.00	81.18	-	-	0.00	0.00	-
RAH05	2 437	2 442	0	25.03	2.00	27.03	106.9	0.00	78.76	-	-	0.00	0.00	-
RAH06	2 908	2 912	0	22.90	2.00	24.90	106.9	0.00	80.28	-	-	0.00	0.00	-
RAH07	4 588	4 591	0	17.16	2.00	19.16	106.9	0.00	84.24	-	-	0.00	0.00	-
RAH08	4 561	4 564	0	17.24	2.00	19.24	106.9	0.00	84.19	-	-	0.00	0.00	-
RAH09	3 818	3 821	0	19.51	2.00	21.51	106.9	0.00	82.64	-	-	0.00	0.00	-
RAH10	4 062	4 065	0	18.72	2.00	20.72	106.9	0.00	83.18	-	-	0.00	0.00	-
RAH11	2 437	2 442	0	25.03	2.00	27.03	106.9	0.00	78.76	-	-	0.00	0.00	-
RAH12	3 148	3 152	0	21.92	2.00	23.92	106.9	0.00	80.97	-	-	0.00	0.00	-
RAH13	3 017	3 021	0	22.45	2.00	24.45	106.9	0.00	80.60	-	-	0.00	0.00	-
RAH14	2 366	2 371	0	25.38	2.00	27.38	106.9	0.00	78.50	-	-	0.00	0.00	-
RAH15	3 245	3 249	0	21.54	2.00	23.54	106.9	0.00	81.24	-	-	0.00	0.00	-
RAH16	3 834	3 837	0	19.46	2.00	21.46	106.9	0.00	82.68	-	-	0.00	0.00	-
RAH17	2 447	2 453	0	24.98	2.00	26.98	106.9	0.00	78.79	-	-	0.00	0.00	-
RAH18	2 994	2 999	0	22.54	2.00	24.54	106.9	0.00	80.54	-	-	0.00	0.00	-
RAH19	3 172	3 177	0	21.82	2.00	23.82	106.9	0.00	81.04	-	-	0.00	0.00	-
SIL01	9 038	9 040	0	4.53	2.00	6.53	108.5	0.00	90.12	-	-	0.00	0.00	-
SIL02	8 577	8 579	0	5.26	2.00	7.26	108.5	0.00	89.67	-	-	0.00	0.00	-
SIL03	7 979	7 981	0	6.26	2.00	8.26	108.5	0.00	89.04	-	-	0.00	0.00	-
SIL04	7 937	7 939	0	6.34	2.00	8.34	108.5	0.00	88.99	-	-	0.00	0.00	-
SIL05	8 751	8 753	0	4.98	2.00	6.98	108.5	0.00	89.84	-	-	0.00	0.00	-
SIL06	8 402	8 404	0	5.54	2.00	7.54	108.5	0.00	89.49	-	-	0.00	0.00	-
SIL07	7 832	7 834	0	6.53	2.00	8.53	108.5	0.00	88.88	-	-	0.00	0.00	-
SIL08	8 156	8 157	0	5.96	2.00	7.96	108.5	0.00	89.23	-	-	0.00	0.00	-
Sum						39.97								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: R Noise sensitive point: Finnish normal frequency - User defined (43)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	4 120	4 125	0	16.58	2.00	18.58	107.2	0.00	83.31	-	-	0.00	0.00	-
KAR02	4 127	4 131	0	16.56	2.00	18.56	107.2	0.00	83.32	-	-	0.00	0.00	-
KAR03	4 430	4 434	0	15.58	2.00	17.58	107.2	0.00	83.94	-	-	0.00	0.00	-
KAR04	4 942	4 946	0	14.06	2.00	16.06	107.2	0.00	84.89	-	-	0.00	0.00	-
KAR05	5 458	5 461	0	12.80	2.00	14.80	107.2	0.00	85.75	-	-	0.00	0.00	-
KAR06	5 015	5 019	0	13.86	2.00	15.86	107.2	0.00	85.01	-	-	0.00	0.00	-
KAR07	4 948	4 952	0	14.05	2.00	16.05	107.2	0.00	84.90	-	-	0.00	0.00	-
KAR08	5 068	5 071	0	13.72	2.00	15.72	107.2	0.00	85.10	-	-	0.00	0.00	-
KAR09	5 962	5 966	0	11.74	2.00	13.74	107.2	0.00	86.51	-	-	0.00	0.00	-
KAR10	5 689	5 692	0	12.30	2.00	14.30	107.2	0.00	86.11	-	-	0.00	0.00	-
KAR11	5 577	5 580	0	12.54	2.00	14.54	107.2	0.00	85.93	-	-	0.00	0.00	-
KAR12	6 237	6 240	0	11.20	2.00	13.20	107.2	0.00	86.90	-	-	0.00	0.00	-
KAR13	5 989	5 992	0	11.69	2.00	13.69	107.2	0.00	86.55	-	-	0.00	0.00	-
KAR14	6 604	6 607	0	10.51	2.00	12.51	107.2	0.00	87.40	-	-	0.00	0.00	-
KAR15	6 021	6 024	0	11.63	2.00	13.63	107.2	0.00	86.60	-	-	0.00	0.00	-
KAR16	6 930	6 933	0	9.92	2.00	11.92	107.2	0.00	87.82	-	-	0.00	0.00	-
KAR17	6 868	6 871	0	10.03	2.00	12.03	107.2	0.00	87.74	-	-	0.00	0.00	-
KAR18	7 340	7 342	0	9.22	2.00	11.22	107.2	0.00	88.32	-	-	0.00	0.00	-
KAR19	6 783	6 786	0	10.18	2.00	12.18	107.2	0.00	87.63	-	-	0.00	0.00	-
KAR20	7 482	7 484	0	8.99	2.00	10.99	107.2	0.00	88.48	-	-	0.00	0.00	-
KAR21	7 324	7 327	0	9.25	2.00	11.25	107.2	0.00	88.30	-	-	0.00	0.00	-
KAR22	7 419	7 421	0	9.09	2.00	11.09	107.2	0.00	88.41	-	-	0.00	0.00	-
KAR23	7 966	7 968	0	8.23	2.00	10.23	107.2	0.00	89.03	-	-	0.00	0.00	-
KAR24	4 369	4 373	0	15.77	2.00	17.77	107.2	0.00	83.82	-	-	0.00	0.00	-
KAR25	3 668	3 672	0	18.17	2.00	20.17	107.2	0.00	82.30	-	-	0.00	0.00	-
MAA01	1 468	1 474	0	29.95	2.00	31.95	107.2	0.00	74.37	-	-	0.00	0.00	-
MAA03	2 002	2 007	0	26.14	2.00	28.14	107.2	0.00	77.05	-	-	0.00	0.00	-
MAA04	2 103	2 108	0	25.52	2.00	27.52	107.2	0.00	77.48	-	-	0.00	0.00	-
MAA05	2 562	2 565	0	22.98	2.00	24.98	107.2	0.00	79.18	-	-	0.00	0.00	-
MAA06	3 484	3 487	0	18.88	2.00	20.88	107.2	0.00	81.85	-	-	0.00	0.00	-
MAA07	3 858	3 861	0	17.48	2.00	19.48	107.2	0.00	82.73	-	-	0.00	0.00	-
MAA08	4 142	4 144	0	16.51	2.00	18.51	107.2	0.00	83.35	-	-	0.00	0.00	-
RAH01	2 903	2 907	0	22.92	2.00	24.92	106.9	0.00	80.27	-	-	0.00	0.00	-
RAH02	3 073	3 077	0	22.22	2.00	24.22	106.9	0.00	80.76	-	-	0.00	0.00	-
RAH03	2 336	2 341	0	25.53	2.00	27.53	106.9	0.00	78.39	-	-	0.00	0.00	-
RAH04	3 240	3 244	0	21.57	2.00	23.57	106.9	0.00	81.22	-	-	0.00	0.00	-
RAH05	2 454	2 459	0	24.95	2.00	26.95	106.9	0.00	78.81	-	-	0.00	0.00	-
RAH06	2 926	2 930	0	22.82	2.00	24.82	106.9	0.00	80.34	-	-	0.00	0.00	-
RAH07	4 606	4 609	0	17.11	2.00	19.11	106.9	0.00	84.27	-	-	0.00	0.00	-
RAH08	4 579	4 581	0	17.19	2.00	19.19	106.9	0.00	84.22	-	-	0.00	0.00	-
RAH09	3 836	3 839	0	19.45	2.00	21.45	106.9	0.00	82.68	-	-	0.00	0.00	-
RAH10	4 079	4 082	0	18.67	2.00	20.67	106.9	0.00	83.22	-	-	0.00	0.00	-
RAH11	2 441	2 446	0	25.01	2.00	27.01	106.9	0.00	78.77	-	-	0.00	0.00	-
RAH12	3 150	3 154	0	21.91	2.00	23.91	106.9	0.00	80.98	-	-	0.00	0.00	-
RAH13	3 014	3 018	0	22.46	2.00	24.46	106.9	0.00	80.59	-	-	0.00	0.00	-
RAH14	2 363	2 368	0	25.40	2.00	27.40	106.9	0.00	78.49	-	-	0.00	0.00	-
RAH15	3 236	3 240	0	21.58	2.00	23.58	106.9	0.00	81.21	-	-	0.00	0.00	-
RAH16	3 828	3 831	0	19.48	2.00	21.48	106.9	0.00	82.67	-	-	0.00	0.00	-
RAH17	2 432	2 438	0	25.05	2.00	27.05	106.9	0.00	78.74	-	-	0.00	0.00	-
RAH18	2 981	2 986	0	22.59	2.00	24.59	106.9	0.00	80.50	-	-	0.00	0.00	-
RAH19	3 156	3 161	0	21.89	2.00	23.89	106.9	0.00	81.00	-	-	0.00	0.00	-
SIL01	9 023	9 025	0	4.55	2.00	6.55	108.5	0.00	90.11	-	-	0.00	0.00	-
SIL02	8 561	8 563	0	5.28	2.00	7.28	108.5	0.00	89.65	-	-	0.00	0.00	-
SIL03	7 962	7 964	0	6.29	2.00	8.29	108.5	0.00	89.02	-	-	0.00	0.00	-
SIL04	7 921	7 923	0	6.37	2.00	8.37	108.5	0.00	88.98	-	-	0.00	0.00	-
SIL05	8 737	8 738	0	5.00	2.00	7.00	108.5	0.00	89.83	-	-	0.00	0.00	-
SIL06	8 387	8 389	0	5.57	2.00	7.57	108.5	0.00	89.47	-	-	0.00	0.00	-
SIL07	7 817	7 819	0	6.55	2.00	8.55	108.5	0.00	88.86	-	-	0.00	0.00	-
SIL08	8 142	8 143	0	5.98	2.00	7.98	108.5	0.00	89.22	-	-	0.00	0.00	-
Sum						39.93								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: S Noise sensitive point: Finnish normal frequency - User defined (49)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	3 992	3 996	0	17.01	2.00	19.01	107.2	0.00	83.03	-	-	0.00	0.00	-
KAR02	4 050	4 054	0	16.81	2.00	18.81	107.2	0.00	83.16	-	-	0.00	0.00	-
KAR03	4 326	4 330	0	15.90	2.00	17.90	107.2	0.00	83.73	-	-	0.00	0.00	-
KAR04	4 819	4 823	0	14.41	2.00	16.41	107.2	0.00	84.67	-	-	0.00	0.00	-
KAR05	5 318	5 322	0	13.11	2.00	15.11	107.2	0.00	85.52	-	-	0.00	0.00	-
KAR06	4 926	4 930	0	14.11	2.00	16.11	107.2	0.00	84.86	-	-	0.00	0.00	-
KAR07	4 892	4 896	0	14.21	2.00	16.21	107.2	0.00	84.80	-	-	0.00	0.00	-
KAR08	5 045	5 048	0	13.78	2.00	15.78	107.2	0.00	85.06	-	-	0.00	0.00	-
KAR09	5 834	5 838	0	12.00	2.00	14.00	107.2	0.00	86.32	-	-	0.00	0.00	-
KAR10	5 580	5 583	0	12.54	2.00	14.54	107.2	0.00	85.94	-	-	0.00	0.00	-
KAR11	5 506	5 510	0	12.70	2.00	14.70	107.2	0.00	85.82	-	-	0.00	0.00	-
KAR12	6 142	6 145	0	11.39	2.00	13.39	107.2	0.00	86.77	-	-	0.00	0.00	-
KAR13	5 932	5 935	0	11.80	2.00	13.80	107.2	0.00	86.47	-	-	0.00	0.00	-
KAR14	6 495	6 498	0	10.71	2.00	12.71	107.2	0.00	87.26	-	-	0.00	0.00	-
KAR15	5 986	5 989	0	11.69	2.00	13.69	107.2	0.00	86.55	-	-	0.00	0.00	-
KAR16	6 837	6 840	0	10.09	2.00	12.09	107.2	0.00	87.70	-	-	0.00	0.00	-
KAR17	6 796	6 798	0	10.16	2.00	12.16	107.2	0.00	87.65	-	-	0.00	0.00	-
KAR18	7 231	7 234	0	9.41	2.00	11.41	107.2	0.00	88.19	-	-	0.00	0.00	-
KAR19	6 756	6 759	0	10.23	2.00	12.23	107.2	0.00	87.60	-	-	0.00	0.00	-
KAR20	7 400	7 403	0	9.12	2.00	11.12	107.2	0.00	88.39	-	-	0.00	0.00	-
KAR21	7 265	7 268	0	9.35	2.00	11.35	107.2	0.00	88.23	-	-	0.00	0.00	-
KAR22	7 376	7 379	0	9.16	2.00	11.16	107.2	0.00	88.36	-	-	0.00	0.00	-
KAR23	7 916	7 919	0	8.30	2.00	10.30	107.2	0.00	88.97	-	-	0.00	0.00	-
KAR24	4 217	4 221	0	16.26	2.00	18.26	107.2	0.00	83.51	-	-	0.00	0.00	-
KAR25	3 573	3 578	0	18.53	2.00	20.53	107.2	0.00	82.07	-	-	0.00	0.00	-
MAA01	1 624	1 630	0	28.73	2.00	30.73	107.2	0.00	75.25	-	-	0.00	0.00	-
MAA03	2 192	2 197	0	24.99	2.00	26.99	107.2	0.00	77.84	-	-	0.00	0.00	-
MAA04	2 309	2 314	0	24.33	2.00	26.33	107.2	0.00	78.29	-	-	0.00	0.00	-
MAA05	2 764	2 768	0	21.98	2.00	23.98	107.2	0.00	79.84	-	-	0.00	0.00	-
MAA06	3 692	3 695	0	18.09	2.00	20.09	107.2	0.00	82.35	-	-	0.00	0.00	-
MAA07	4 063	4 066	0	16.77	2.00	18.77	107.2	0.00	83.18	-	-	0.00	0.00	-
MAA08	4 341	4 344	0	15.86	2.00	17.86	107.2	0.00	83.76	-	-	0.00	0.00	-
RAH01	2 976	2 980	0	22.62	2.00	24.62	106.9	0.00	80.48	-	-	0.00	0.00	-
RAH02	3 196	3 200	0	21.74	2.00	23.74	106.9	0.00	81.10	-	-	0.00	0.00	-
RAH03	2 438	2 443	0	25.02	2.00	27.02	106.9	0.00	78.76	-	-	0.00	0.00	-
RAH04	3 395	3 398	0	20.99	2.00	22.99	106.9	0.00	81.63	-	-	0.00	0.00	-
RAH05	2 618	2 623	0	24.17	2.00	26.17	106.9	0.00	79.38	-	-	0.00	0.00	-
RAH06	3 113	3 117	0	22.06	2.00	24.06	106.9	0.00	80.88	-	-	0.00	0.00	-
RAH07	4 797	4 800	0	16.58	2.00	18.58	106.9	0.00	84.62	-	-	0.00	0.00	-
RAH08	4 753	4 756	0	16.70	2.00	18.70	106.9	0.00	84.54	-	-	0.00	0.00	-
RAH09	4 019	4 022	0	18.86	2.00	20.86	106.9	0.00	83.09	-	-	0.00	0.00	-
RAH10	4 238	4 240	0	18.18	2.00	20.18	106.9	0.00	83.55	-	-	0.00	0.00	-
RAH11	2 452	2 457	0	24.96	2.00	26.96	106.9	0.00	78.81	-	-	0.00	0.00	-
RAH12	3 146	3 150	0	21.93	2.00	23.93	106.9	0.00	80.97	-	-	0.00	0.00	-
RAH13	2 951	2 955	0	22.72	2.00	24.72	106.9	0.00	80.41	-	-	0.00	0.00	-
RAH14	2 296	2 301	0	25.74	2.00	27.74	106.9	0.00	78.24	-	-	0.00	0.00	-
RAH15	3 108	3 113	0	22.08	2.00	24.08	106.9	0.00	80.86	-	-	0.00	0.00	-
RAH16	3 737	3 740	0	19.78	2.00	21.78	106.9	0.00	82.46	-	-	0.00	0.00	-
RAH17	2 248	2 255	0	25.98	2.00	27.98	106.9	0.00	78.06	-	-	0.00	0.00	-
RAH18	2 815	2 821	0	23.29	2.00	25.29	106.9	0.00	80.01	-	-	0.00	0.00	-
RAH19	2 958	2 963	0	22.68	2.00	24.68	106.9	0.00	80.43	-	-	0.00	0.00	-
SIL01	8 837	8 839	0	4.84	2.00	6.84	108.5	0.00	89.93	-	-	0.00	0.00	-
SIL02	8 368	8 370	0	5.60	2.00	7.60	108.5	0.00	89.45	-	-	0.00	0.00	-
SIL03	7 765	7 767	0	6.65	2.00	8.65	108.5	0.00	88.80	-	-	0.00	0.00	-
SIL04	7 729	7 731	0	6.71	2.00	8.71	108.5	0.00	88.76	-	-	0.00	0.00	-
SIL05	8 558	8 560	0	5.29	2.00	7.29	108.5	0.00	89.65	-	-	0.00	0.00	-
SIL06	8 202	8 203	0	5.88	2.00	7.88	108.5	0.00	89.28	-	-	0.00	0.00	-
SIL07	7 634	7 636	0	6.88	2.00	8.88	108.5	0.00	88.66	-	-	0.00	0.00	-
SIL08	7 966	7 968	0	6.29	2.00	8.29	108.5	0.00	89.03	-	-	0.00	0.00	-
Sum						39.59								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: T Noise sensitive point: Finnish normal frequency - User defined (36)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	3 992	3 996	0	17.01	2.00	19.01	107.2	0.00	83.03	-	-	0.00	0.00	-
KAR02	4 050	4 054	0	16.81	2.00	18.81	107.2	0.00	83.16	-	-	0.00	0.00	-
KAR03	4 326	4 330	0	15.90	2.00	17.90	107.2	0.00	83.73	-	-	0.00	0.00	-
KAR04	4 819	4 823	0	14.41	2.00	16.41	107.2	0.00	84.67	-	-	0.00	0.00	-
KAR05	5 318	5 322	0	13.11	2.00	15.11	107.2	0.00	85.52	-	-	0.00	0.00	-
KAR06	4 926	4 930	0	14.11	2.00	16.11	107.2	0.00	84.86	-	-	0.00	0.00	-
KAR07	4 892	4 896	0	14.21	2.00	16.21	107.2	0.00	84.80	-	-	0.00	0.00	-
KAR08	5 045	5 048	0	13.78	2.00	15.78	107.2	0.00	85.06	-	-	0.00	0.00	-
KAR09	5 834	5 838	0	12.00	2.00	14.00	107.2	0.00	86.32	-	-	0.00	0.00	-
KAR10	5 580	5 583	0	12.54	2.00	14.54	107.2	0.00	85.94	-	-	0.00	0.00	-
KAR11	5 506	5 510	0	12.70	2.00	14.70	107.2	0.00	85.82	-	-	0.00	0.00	-
KAR12	6 142	6 145	0	11.39	2.00	13.39	107.2	0.00	86.77	-	-	0.00	0.00	-
KAR13	5 932	5 935	0	11.80	2.00	13.80	107.2	0.00	86.47	-	-	0.00	0.00	-
KAR14	6 495	6 498	0	10.71	2.00	12.71	107.2	0.00	87.26	-	-	0.00	0.00	-
KAR15	5 986	5 989	0	11.69	2.00	13.69	107.2	0.00	86.55	-	-	0.00	0.00	-
KAR16	6 837	6 840	0	10.09	2.00	12.09	107.2	0.00	87.70	-	-	0.00	0.00	-
KAR17	6 796	6 798	0	10.16	2.00	12.16	107.2	0.00	87.65	-	-	0.00	0.00	-
KAR18	7 231	7 234	0	9.41	2.00	11.41	107.2	0.00	88.19	-	-	0.00	0.00	-
KAR19	6 756	6 759	0	10.23	2.00	12.23	107.2	0.00	87.60	-	-	0.00	0.00	-
KAR20	7 400	7 403	0	9.12	2.00	11.12	107.2	0.00	88.39	-	-	0.00	0.00	-
KAR21	7 265	7 268	0	9.35	2.00	11.35	107.2	0.00	88.23	-	-	0.00	0.00	-
KAR22	7 376	7 379	0	9.16	2.00	11.16	107.2	0.00	88.36	-	-	0.00	0.00	-
KAR23	7 916	7 919	0	8.30	2.00	10.30	107.2	0.00	88.97	-	-	0.00	0.00	-
KAR24	4 217	4 221	0	16.26	2.00	18.26	107.2	0.00	83.51	-	-	0.00	0.00	-
KAR25	3 573	3 578	0	18.53	2.00	20.53	107.2	0.00	82.07	-	-	0.00	0.00	-
MAA01	1 624	1 630	0	28.73	2.00	30.73	107.2	0.00	75.25	-	-	0.00	0.00	-
MAA03	2 192	2 197	0	24.99	2.00	26.99	107.2	0.00	77.84	-	-	0.00	0.00	-
MAA04	2 309	2 314	0	24.33	2.00	26.33	107.2	0.00	78.29	-	-	0.00	0.00	-
MAA05	2 764	2 768	0	21.98	2.00	23.98	107.2	0.00	79.84	-	-	0.00	0.00	-
MAA06	3 692	3 695	0	18.09	2.00	20.09	107.2	0.00	82.35	-	-	0.00	0.00	-
MAA07	4 063	4 066	0	16.77	2.00	18.77	107.2	0.00	83.18	-	-	0.00	0.00	-
MAA08	4 341	4 344	0	15.86	2.00	17.86	107.2	0.00	83.76	-	-	0.00	0.00	-
RAH01	2 976	2 980	0	22.62	2.00	24.62	106.9	0.00	80.48	-	-	0.00	0.00	-
RAH02	3 196	3 200	0	21.74	2.00	23.74	106.9	0.00	81.10	-	-	0.00	0.00	-
RAH03	2 438	2 443	0	25.02	2.00	27.02	106.9	0.00	78.76	-	-	0.00	0.00	-
RAH04	3 395	3 398	0	20.99	2.00	22.99	106.9	0.00	81.63	-	-	0.00	0.00	-
RAH05	2 618	2 623	0	24.17	2.00	26.17	106.9	0.00	79.38	-	-	0.00	0.00	-
RAH06	3 113	3 117	0	22.06	2.00	24.06	106.9	0.00	80.88	-	-	0.00	0.00	-
RAH07	4 797	4 800	0	16.58	2.00	18.58	106.9	0.00	84.62	-	-	0.00	0.00	-
RAH08	4 753	4 756	0	16.70	2.00	18.70	106.9	0.00	84.54	-	-	0.00	0.00	-
RAH09	4 019	4 022	0	18.86	2.00	20.86	106.9	0.00	83.09	-	-	0.00	0.00	-
RAH10	4 238	4 240	0	18.18	2.00	20.18	106.9	0.00	83.55	-	-	0.00	0.00	-
RAH11	2 452	2 457	0	24.96	2.00	26.96	106.9	0.00	78.81	-	-	0.00	0.00	-
RAH12	3 146	3 150	0	21.93	2.00	23.93	106.9	0.00	80.97	-	-	0.00	0.00	-
RAH13	2 951	2 955	0	22.72	2.00	24.72	106.9	0.00	80.41	-	-	0.00	0.00	-
RAH14	2 296	2 301	0	25.74	2.00	27.74	106.9	0.00	78.24	-	-	0.00	0.00	-
RAH15	3 108	3 113	0	22.08	2.00	24.08	106.9	0.00	80.86	-	-	0.00	0.00	-
RAH16	3 737	3 740	0	19.78	2.00	21.78	106.9	0.00	82.46	-	-	0.00	0.00	-
RAH17	2 248	2 255	0	25.98	2.00	27.98	106.9	0.00	78.06	-	-	0.00	0.00	-
RAH18	2 815	2 821	0	23.29	2.00	25.29	106.9	0.00	80.01	-	-	0.00	0.00	-
RAH19	2 958	2 963	0	22.68	2.00	24.68	106.9	0.00	80.43	-	-	0.00	0.00	-
SIL01	8 837	8 839	0	4.84	2.00	6.84	108.5	0.00	89.93	-	-	0.00	0.00	-
SIL02	8 368	8 370	0	5.60	2.00	7.60	108.5	0.00	89.45	-	-	0.00	0.00	-
SIL03	7 765	7 767	0	6.65	2.00	8.65	108.5	0.00	88.80	-	-	0.00	0.00	-
SIL04	7 729	7 731	0	6.71	2.00	8.71	108.5	0.00	88.76	-	-	0.00	0.00	-
SIL05	8 558	8 560	0	5.29	2.00	7.29	108.5	0.00	89.65	-	-	0.00	0.00	-
SIL06	8 202	8 203	0	5.88	2.00	7.88	108.5	0.00	89.28	-	-	0.00	0.00	-
SIL07	7 634	7 636	0	6.88	2.00	8.88	108.5	0.00	88.66	-	-	0.00	0.00	-
SIL08	7 966	7 968	0	6.29	2.00	8.29	108.5	0.00	89.03	-	-	0.00	0.00	-
Sum						39.59								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: U Noise sensitive point: Finnish normal frequency - User defined (50)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	3 999	4 004	0	16.98	2.00	18.98	107.2	0.00	83.05	-	-	0.00	0.00	-
KAR02	3 852	3 856	0	17.50	2.00	19.50	107.2	0.00	82.72	-	-	0.00	0.00	-
KAR03	4 227	4 231	0	16.22	2.00	18.22	107.2	0.00	83.53	-	-	0.00	0.00	-
KAR04	4 795	4 799	0	14.48	2.00	16.48	107.2	0.00	84.62	-	-	0.00	0.00	-
KAR05	5 361	5 365	0	13.01	2.00	15.01	107.2	0.00	85.59	-	-	0.00	0.00	-
KAR06	4 764	4 768	0	14.57	2.00	16.57	107.2	0.00	84.57	-	-	0.00	0.00	-
KAR07	4 615	4 618	0	15.01	2.00	17.01	107.2	0.00	84.29	-	-	0.00	0.00	-
KAR08	4 661	4 665	0	14.88	2.00	16.88	107.2	0.00	84.38	-	-	0.00	0.00	-
KAR09	5 824	5 827	0	12.02	2.00	14.02	107.2	0.00	86.31	-	-	0.00	0.00	-
KAR10	5 493	5 496	0	12.72	2.00	14.72	107.2	0.00	85.80	-	-	0.00	0.00	-
KAR11	5 274	5 277	0	13.21	2.00	15.21	107.2	0.00	85.45	-	-	0.00	0.00	-
KAR12	5 996	5 999	0	11.68	2.00	13.68	107.2	0.00	86.56	-	-	0.00	0.00	-
KAR13	5 651	5 654	0	12.39	2.00	14.39	107.2	0.00	86.05	-	-	0.00	0.00	-
KAR14	6 404	6 407	0	10.88	2.00	12.88	107.2	0.00	87.13	-	-	0.00	0.00	-
KAR15	5 634	5 637	0	12.42	2.00	14.42	107.2	0.00	86.02	-	-	0.00	0.00	-
KAR16	6 679	6 682	0	10.37	2.00	12.37	107.2	0.00	87.50	-	-	0.00	0.00	-
KAR17	6 566	6 569	0	10.58	2.00	12.58	107.2	0.00	87.35	-	-	0.00	0.00	-
KAR18	7 134	7 137	0	9.57	2.00	11.57	107.2	0.00	88.07	-	-	0.00	0.00	-
KAR19	6 379	6 382	0	10.93	2.00	12.93	107.2	0.00	87.10	-	-	0.00	0.00	-
KAR20	7 199	7 202	0	9.46	2.00	11.46	107.2	0.00	88.15	-	-	0.00	0.00	-
KAR21	6 988	6 991	0	9.82	2.00	11.82	107.2	0.00	87.89	-	-	0.00	0.00	-
KAR22	7 045	7 048	0	9.72	2.00	11.72	107.2	0.00	87.96	-	-	0.00	0.00	-
KAR23	7 606	7 609	0	8.79	2.00	10.79	107.2	0.00	88.63	-	-	0.00	0.00	-
KAR24	4 329	4 333	0	15.90	2.00	17.90	107.2	0.00	83.74	-	-	0.00	0.00	-
KAR25	3 448	3 453	0	19.01	2.00	21.01	107.2	0.00	81.76	-	-	0.00	0.00	-
MAA01	1 659	1 665	0	28.48	2.00	30.48	107.2	0.00	75.43	-	-	0.00	0.00	-
MAA03	1 996	2 001	0	26.19	2.00	28.19	107.2	0.00	77.02	-	-	0.00	0.00	-
MAA04	1 757	1 762	0	27.77	2.00	29.77	107.2	0.00	75.92	-	-	0.00	0.00	-
MAA05	2 420	2 424	0	23.72	2.00	25.72	107.2	0.00	78.69	-	-	0.00	0.00	-
MAA06	3 182	3 185	0	20.10	2.00	22.10	107.2	0.00	81.06	-	-	0.00	0.00	-
MAA07	3 477	3 480	0	18.90	2.00	20.90	107.2	0.00	81.83	-	-	0.00	0.00	-
MAA08	3 712	3 714	0	18.01	2.00	20.01	107.2	0.00	82.40	-	-	0.00	0.00	-
RAH01	3 277	3 281	0	21.42	2.00	23.42	106.9	0.00	81.32	-	-	0.00	0.00	-
RAH02	3 320	3 324	0	21.26	2.00	23.26	106.9	0.00	81.43	-	-	0.00	0.00	-
RAH03	2 653	2 658	0	24.01	2.00	26.01	106.9	0.00	79.49	-	-	0.00	0.00	-
RAH04	3 373	3 377	0	21.06	2.00	23.06	106.9	0.00	81.57	-	-	0.00	0.00	-
RAH05	2 566	2 570	0	24.42	2.00	26.42	106.9	0.00	79.20	-	-	0.00	0.00	-
RAH06	2 906	2 910	0	22.91	2.00	24.91	106.9	0.00	80.28	-	-	0.00	0.00	-
RAH07	4 538	4 540	0	17.30	2.00	19.30	106.9	0.00	84.14	-	-	0.00	0.00	-
RAH08	4 604	4 607	0	17.11	2.00	19.11	106.9	0.00	84.27	-	-	0.00	0.00	-
RAH09	3 828	3 831	0	19.47	2.00	21.47	106.9	0.00	82.67	-	-	0.00	0.00	-
RAH10	4 184	4 187	0	18.35	2.00	20.35	106.9	0.00	83.44	-	-	0.00	0.00	-
RAH11	2 924	2 928	0	22.83	2.00	24.83	106.9	0.00	80.33	-	-	0.00	0.00	-
RAH12	3 647	3 650	0	20.09	2.00	22.09	106.9	0.00	82.25	-	-	0.00	0.00	-
RAH13	3 566	3 569	0	20.37	2.00	22.37	106.9	0.00	82.05	-	-	0.00	0.00	-
RAH14	2 919	2 923	0	22.85	2.00	24.85	106.9	0.00	80.32	-	-	0.00	0.00	-
RAH15	3 803	3 807	0	19.56	2.00	21.56	106.9	0.00	82.61	-	-	0.00	0.00	-
RAH16	4 393	4 396	0	17.72	2.00	19.72	106.9	0.00	83.86	-	-	0.00	0.00	-
RAH17	2 944	2 949	0	22.74	2.00	24.74	106.9	0.00	80.39	-	-	0.00	0.00	-
RAH18	3 523	3 527	0	20.52	2.00	22.52	106.9	0.00	81.95	-	-	0.00	0.00	-
RAH19	3 621	3 626	0	20.17	2.00	22.17	106.9	0.00	82.19	-	-	0.00	0.00	-
SIL01	9 526	9 527	0	3.80	2.00	5.80	108.5	0.00	90.58	-	-	0.00	0.00	-
SIL02	9 041	9 043	0	4.53	2.00	6.53	108.5	0.00	90.13	-	-	0.00	0.00	-
SIL03	8 423	8 424	0	5.51	2.00	7.51	108.5	0.00	89.51	-	-	0.00	0.00	-
SIL04	8 406	8 407	0	5.54	2.00	7.54	108.5	0.00	89.49	-	-	0.00	0.00	-
SIL05	9 256	9 257	0	4.20	2.00	6.20	108.5	0.00	90.33	-	-	0.00	0.00	-
SIL06	8 891	8 892	0	4.76	2.00	6.76	108.5	0.00	89.98	-	-	0.00	0.00	-
SIL07	8 326	8 327	0	5.67	2.00	7.67	108.5	0.00	89.41	-	-	0.00	0.00	-
SIL08	8 667	8 668	0	5.11	2.00	7.11	108.5	0.00	89.76	-	-	0.00	0.00	-
Sum						39.29								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: V Noise sensitive point: Finnish normal frequency - User defined (38)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	4 014	4 018	0	16.94	2.00	18.94	107.2	0.00	83.08	-	-	0.00	0.00	-
KAR02	3 842	3 846	0	17.54	2.00	19.54	107.2	0.00	82.70	-	-	0.00	0.00	-
KAR03	4 228	4 232	0	16.22	2.00	18.22	107.2	0.00	83.53	-	-	0.00	0.00	-
KAR04	4 804	4 808	0	14.46	2.00	16.46	107.2	0.00	84.64	-	-	0.00	0.00	-
KAR05	5 377	5 381	0	12.98	2.00	14.98	107.2	0.00	85.62	-	-	0.00	0.00	-
KAR06	4 756	4 760	0	14.60	2.00	16.60	107.2	0.00	84.55	-	-	0.00	0.00	-
KAR07	4 593	4 597	0	15.08	2.00	17.08	107.2	0.00	84.25	-	-	0.00	0.00	-
KAR08	4 626	4 630	0	14.98	2.00	16.98	107.2	0.00	84.31	-	-	0.00	0.00	-
KAR09	5 834	5 837	0	12.00	2.00	14.00	107.2	0.00	86.32	-	-	0.00	0.00	-
KAR10	5 494	5 497	0	12.72	2.00	14.72	107.2	0.00	85.80	-	-	0.00	0.00	-
KAR11	5 257	5 261	0	13.25	2.00	15.25	107.2	0.00	85.42	-	-	0.00	0.00	-
KAR12	5 989	5 992	0	11.69	2.00	13.69	107.2	0.00	86.55	-	-	0.00	0.00	-
KAR13	5 628	5 631	0	12.44	2.00	14.44	107.2	0.00	86.01	-	-	0.00	0.00	-
KAR14	6 404	6 407	0	10.88	2.00	12.88	107.2	0.00	87.13	-	-	0.00	0.00	-
KAR15	5 601	5 604	0	12.49	2.00	14.49	107.2	0.00	85.97	-	-	0.00	0.00	-
KAR16	6 670	6 673	0	10.39	2.00	12.39	107.2	0.00	87.49	-	-	0.00	0.00	-
KAR17	6 549	6 551	0	10.61	2.00	12.61	107.2	0.00	87.33	-	-	0.00	0.00	-
KAR18	7 132	7 135	0	9.57	2.00	11.57	107.2	0.00	88.07	-	-	0.00	0.00	-
KAR19	6 343	6 346	0	11.00	2.00	13.00	107.2	0.00	87.05	-	-	0.00	0.00	-
KAR20	7 185	7 187	0	9.48	2.00	11.48	107.2	0.00	88.13	-	-	0.00	0.00	-
KAR21	6 964	6 967	0	9.86	2.00	11.86	107.2	0.00	87.86	-	-	0.00	0.00	-
KAR22	7 015	7 017	0	9.78	2.00	11.78	107.2	0.00	87.92	-	-	0.00	0.00	-
KAR23	7 578	7 581	0	8.84	2.00	10.84	107.2	0.00	88.59	-	-	0.00	0.00	-
KAR24	4 355	4 358	0	15.82	2.00	17.82	107.2	0.00	83.79	-	-	0.00	0.00	-
KAR25	3 448	3 452	0	19.01	2.00	21.01	107.2	0.00	81.76	-	-	0.00	0.00	-
MAA01	1 677	1 683	0	28.34	2.00	30.34	107.2	0.00	75.52	-	-	0.00	0.00	-
MAA03	1 983	1 988	0	26.27	2.00	28.27	107.2	0.00	76.97	-	-	0.00	0.00	-
MAA04	1 696	1 702	0	28.21	2.00	30.21	107.2	0.00	75.62	-	-	0.00	0.00	-
MAA05	2 385	2 389	0	23.91	2.00	25.91	107.2	0.00	78.56	-	-	0.00	0.00	-
MAA06	3 124	3 127	0	20.35	2.00	22.35	107.2	0.00	80.90	-	-	0.00	0.00	-
MAA07	3 408	3 411	0	19.17	2.00	21.17	107.2	0.00	81.66	-	-	0.00	0.00	-
MAA08	3 637	3 640	0	18.29	2.00	20.29	107.2	0.00	82.22	-	-	0.00	0.00	-
RAH01	3 316	3 320	0	21.28	2.00	23.28	106.9	0.00	81.42	-	-	0.00	0.00	-
RAH02	3 339	3 343	0	21.19	2.00	23.19	106.9	0.00	81.48	-	-	0.00	0.00	-
RAH03	2 685	2 689	0	23.87	2.00	25.87	106.9	0.00	79.59	-	-	0.00	0.00	-
RAH04	3 376	3 379	0	21.06	2.00	23.06	106.9	0.00	81.58	-	-	0.00	0.00	-
RAH05	2 567	2 572	0	24.41	2.00	26.41	106.9	0.00	79.20	-	-	0.00	0.00	-
RAH06	2 887	2 891	0	22.99	2.00	24.99	106.9	0.00	80.22	-	-	0.00	0.00	-
RAH07	4 509	4 511	0	17.39	2.00	19.39	106.9	0.00	84.09	-	-	0.00	0.00	-
RAH08	4 589	4 591	0	17.16	2.00	19.16	106.9	0.00	84.24	-	-	0.00	0.00	-
RAH09	3 809	3 812	0	19.54	2.00	21.54	106.9	0.00	82.62	-	-	0.00	0.00	-
RAH10	4 180	4 183	0	18.36	2.00	20.36	106.9	0.00	83.43	-	-	0.00	0.00	-
RAH11	2 982	2 986	0	22.59	2.00	24.59	106.9	0.00	80.50	-	-	0.00	0.00	-
RAH12	3 706	3 709	0	19.88	2.00	21.88	106.9	0.00	82.39	-	-	0.00	0.00	-
RAH13	3 637	3 641	0	20.12	2.00	22.12	106.9	0.00	82.22	-	-	0.00	0.00	-
RAH14	2 991	2 995	0	22.55	2.00	24.55	106.9	0.00	80.53	-	-	0.00	0.00	-
RAH15	3 883	3 887	0	19.29	2.00	21.29	106.9	0.00	82.79	-	-	0.00	0.00	-
RAH16	4 469	4 471	0	17.50	2.00	19.50	106.9	0.00	84.01	-	-	0.00	0.00	-
RAH17	3 026	3 031	0	22.40	2.00	24.40	106.9	0.00	80.63	-	-	0.00	0.00	-
RAH18	3 605	3 609	0	20.23	2.00	22.23	106.9	0.00	82.15	-	-	0.00	0.00	-
RAH19	3 701	3 705	0	19.90	2.00	21.90	106.9	0.00	82.38	-	-	0.00	0.00	-
SIL01	9 607	9 609	0	3.69	2.00	5.69	108.5	0.00	90.65	-	-	0.00	0.00	-
SIL02	9 122	9 123	0	4.40	2.00	6.40	108.5	0.00	90.20	-	-	0.00	0.00	-
SIL03	8 502	8 503	0	5.38	2.00	7.38	108.5	0.00	89.59	-	-	0.00	0.00	-
SIL04	8 486	8 488	0	5.40	2.00	7.40	108.5	0.00	89.58	-	-	0.00	0.00	-
SIL05	9 338	9 339	0	4.08	2.00	6.08	108.5	0.00	90.41	-	-	0.00	0.00	-
SIL06	8 972	8 974	0	4.63	2.00	6.63	108.5	0.00	90.06	-	-	0.00	0.00	-
SIL07	8 408	8 409	0	5.53	2.00	7.53	108.5	0.00	89.49	-	-	0.00	0.00	-
SIL08	8 749	8 751	0	4.98	2.00	6.98	108.5	0.00	89.84	-	-	0.00	0.00	-
Sum						39.29								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: W Noise sensitive point: Finnish normal frequency - User defined (6)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	4 014	4 018	0	16.94	2.00	18.94	107.2	0.00	83.08	-	-	0.00	0.00	-
KAR02	3 842	3 846	0	17.54	2.00	19.54	107.2	0.00	82.70	-	-	0.00	0.00	-
KAR03	4 228	4 232	0	16.22	2.00	18.22	107.2	0.00	83.53	-	-	0.00	0.00	-
KAR04	4 804	4 808	0	14.46	2.00	16.46	107.2	0.00	84.64	-	-	0.00	0.00	-
KAR05	5 377	5 381	0	12.98	2.00	14.98	107.2	0.00	85.62	-	-	0.00	0.00	-
KAR06	4 756	4 760	0	14.60	2.00	16.60	107.2	0.00	84.55	-	-	0.00	0.00	-
KAR07	4 593	4 597	0	15.08	2.00	17.08	107.2	0.00	84.25	-	-	0.00	0.00	-
KAR08	4 626	4 630	0	14.98	2.00	16.98	107.2	0.00	84.31	-	-	0.00	0.00	-
KAR09	5 834	5 837	0	12.00	2.00	14.00	107.2	0.00	86.32	-	-	0.00	0.00	-
KAR10	5 494	5 497	0	12.72	2.00	14.72	107.2	0.00	85.80	-	-	0.00	0.00	-
KAR11	5 257	5 261	0	13.25	2.00	15.25	107.2	0.00	85.42	-	-	0.00	0.00	-
KAR12	5 989	5 992	0	11.69	2.00	13.69	107.2	0.00	86.55	-	-	0.00	0.00	-
KAR13	5 628	5 631	0	12.44	2.00	14.44	107.2	0.00	86.01	-	-	0.00	0.00	-
KAR14	6 404	6 407	0	10.88	2.00	12.88	107.2	0.00	87.13	-	-	0.00	0.00	-
KAR15	5 601	5 604	0	12.49	2.00	14.49	107.2	0.00	85.97	-	-	0.00	0.00	-
KAR16	6 670	6 673	0	10.39	2.00	12.39	107.2	0.00	87.49	-	-	0.00	0.00	-
KAR17	6 549	6 551	0	10.61	2.00	12.61	107.2	0.00	87.33	-	-	0.00	0.00	-
KAR18	7 132	7 135	0	9.57	2.00	11.57	107.2	0.00	88.07	-	-	0.00	0.00	-
KAR19	6 343	6 346	0	11.00	2.00	13.00	107.2	0.00	87.05	-	-	0.00	0.00	-
KAR20	7 185	7 187	0	9.48	2.00	11.48	107.2	0.00	88.13	-	-	0.00	0.00	-
KAR21	6 964	6 967	0	9.86	2.00	11.86	107.2	0.00	87.86	-	-	0.00	0.00	-
KAR22	7 015	7 017	0	9.78	2.00	11.78	107.2	0.00	87.92	-	-	0.00	0.00	-
KAR23	7 578	7 581	0	8.84	2.00	10.84	107.2	0.00	88.59	-	-	0.00	0.00	-
KAR24	4 355	4 358	0	15.82	2.00	17.82	107.2	0.00	83.79	-	-	0.00	0.00	-
KAR25	3 448	3 452	0	19.01	2.00	21.01	107.2	0.00	81.76	-	-	0.00	0.00	-
MAA01	1 677	1 683	0	28.34	2.00	30.34	107.2	0.00	75.52	-	-	0.00	0.00	-
MAA03	1 983	1 988	0	26.27	2.00	28.27	107.2	0.00	76.97	-	-	0.00	0.00	-
MAA04	1 696	1 702	0	28.21	2.00	30.21	107.2	0.00	75.62	-	-	0.00	0.00	-
MAA05	2 385	2 389	0	23.91	2.00	25.91	107.2	0.00	78.56	-	-	0.00	0.00	-
MAA06	3 124	3 127	0	20.35	2.00	22.35	107.2	0.00	80.90	-	-	0.00	0.00	-
MAA07	3 408	3 411	0	19.17	2.00	21.17	107.2	0.00	81.66	-	-	0.00	0.00	-
MAA08	3 637	3 640	0	18.29	2.00	20.29	107.2	0.00	82.22	-	-	0.00	0.00	-
RAH01	3 316	3 320	0	21.28	2.00	23.28	106.9	0.00	81.42	-	-	0.00	0.00	-
RAH02	3 339	3 343	0	21.19	2.00	23.19	106.9	0.00	81.48	-	-	0.00	0.00	-
RAH03	2 685	2 689	0	23.87	2.00	25.87	106.9	0.00	79.59	-	-	0.00	0.00	-
RAH04	3 376	3 379	0	21.06	2.00	23.06	106.9	0.00	81.58	-	-	0.00	0.00	-
RAH05	2 567	2 572	0	24.41	2.00	26.41	106.9	0.00	79.20	-	-	0.00	0.00	-
RAH06	2 887	2 891	0	22.99	2.00	24.99	106.9	0.00	80.22	-	-	0.00	0.00	-
RAH07	4 509	4 511	0	17.39	2.00	19.39	106.9	0.00	84.09	-	-	0.00	0.00	-
RAH08	4 589	4 591	0	17.16	2.00	19.16	106.9	0.00	84.24	-	-	0.00	0.00	-
RAH09	3 809	3 812	0	19.54	2.00	21.54	106.9	0.00	82.62	-	-	0.00	0.00	-
RAH10	4 180	4 183	0	18.36	2.00	20.36	106.9	0.00	83.43	-	-	0.00	0.00	-
RAH11	2 982	2 986	0	22.59	2.00	24.59	106.9	0.00	80.50	-	-	0.00	0.00	-
RAH12	3 706	3 709	0	19.88	2.00	21.88	106.9	0.00	82.39	-	-	0.00	0.00	-
RAH13	3 637	3 641	0	20.12	2.00	22.12	106.9	0.00	82.22	-	-	0.00	0.00	-
RAH14	2 991	2 995	0	22.55	2.00	24.55	106.9	0.00	80.53	-	-	0.00	0.00	-
RAH15	3 883	3 887	0	19.29	2.00	21.29	106.9	0.00	82.79	-	-	0.00	0.00	-
RAH16	4 469	4 471	0	17.50	2.00	19.50	106.9	0.00	84.01	-	-	0.00	0.00	-
RAH17	3 026	3 031	0	22.40	2.00	24.40	106.9	0.00	80.63	-	-	0.00	0.00	-
RAH18	3 605	3 609	0	20.23	2.00	22.23	106.9	0.00	82.15	-	-	0.00	0.00	-
RAH19	3 701	3 705	0	19.90	2.00	21.90	106.9	0.00	82.38	-	-	0.00	0.00	-
SIL01	9 607	9 609	0	3.69	2.00	5.69	108.5	0.00	90.65	-	-	0.00	0.00	-
SIL02	9 122	9 123	0	4.40	2.00	6.40	108.5	0.00	90.20	-	-	0.00	0.00	-
SIL03	8 502	8 503	0	5.38	2.00	7.38	108.5	0.00	89.59	-	-	0.00	0.00	-
SIL04	8 486	8 488	0	5.40	2.00	7.40	108.5	0.00	89.58	-	-	0.00	0.00	-
SIL05	9 338	9 339	0	4.08	2.00	6.08	108.5	0.00	90.41	-	-	0.00	0.00	-
SIL06	8 972	8 974	0	4.63	2.00	6.63	108.5	0.00	90.06	-	-	0.00	0.00	-
SIL07	8 408	8 409	0	5.53	2.00	7.53	108.5	0.00	89.49	-	-	0.00	0.00	-
SIL08	8 749	8 751	0	4.98	2.00	6.98	108.5	0.00	89.84	-	-	0.00	0.00	-
Sum						39.29								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: X Noise sensitive point: Finnish normal frequency - User defined (51)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	3 959	3 964	0	17.12	2.00	19.12	107.2	0.00	82.96	-	-	0.00	0.00	-
KAR02	3 801	3 805	0	17.68	2.00	19.68	107.2	0.00	82.61	-	-	0.00	0.00	-
KAR03	4 180	4 185	0	16.38	2.00	18.38	107.2	0.00	83.43	-	-	0.00	0.00	-
KAR04	4 753	4 757	0	14.61	2.00	16.61	107.2	0.00	84.55	-	-	0.00	0.00	-
KAR05	5 322	5 326	0	13.10	2.00	15.10	107.2	0.00	85.53	-	-	0.00	0.00	-
KAR06	4 714	4 718	0	14.72	2.00	16.72	107.2	0.00	84.47	-	-	0.00	0.00	-
KAR07	4 560	4 564	0	15.18	2.00	17.18	107.2	0.00	84.19	-	-	0.00	0.00	-
KAR08	4 604	4 607	0	15.05	2.00	17.05	107.2	0.00	84.27	-	-	0.00	0.00	-
KAR09	5 782	5 785	0	12.11	2.00	14.11	107.2	0.00	86.25	-	-	0.00	0.00	-
KAR10	5 446	5 450	0	12.83	2.00	14.83	107.2	0.00	85.73	-	-	0.00	0.00	-
KAR11	5 221	5 224	0	13.33	2.00	15.33	107.2	0.00	85.36	-	-	0.00	0.00	-
KAR12	5 946	5 949	0	11.78	2.00	13.78	107.2	0.00	86.49	-	-	0.00	0.00	-
KAR13	5 596	5 599	0	12.50	2.00	14.50	107.2	0.00	85.96	-	-	0.00	0.00	-
KAR14	6 357	6 360	0	10.97	2.00	12.97	107.2	0.00	87.07	-	-	0.00	0.00	-
KAR15	5 576	5 579	0	12.55	2.00	14.55	107.2	0.00	85.93	-	-	0.00	0.00	-
KAR16	6 628	6 631	0	10.46	2.00	12.46	107.2	0.00	87.43	-	-	0.00	0.00	-
KAR17	6 513	6 515	0	10.68	2.00	12.68	107.2	0.00	87.28	-	-	0.00	0.00	-
KAR18	7 086	7 089	0	9.65	2.00	11.65	107.2	0.00	88.01	-	-	0.00	0.00	-
KAR19	6 321	6 324	0	11.04	2.00	13.04	107.2	0.00	87.02	-	-	0.00	0.00	-
KAR20	7 147	7 149	0	9.55	2.00	11.55	107.2	0.00	88.09	-	-	0.00	0.00	-
KAR21	6 933	6 935	0	9.92	2.00	11.92	107.2	0.00	87.82	-	-	0.00	0.00	-
KAR22	6 988	6 991	0	9.82	2.00	11.82	107.2	0.00	87.89	-	-	0.00	0.00	-
KAR23	7 550	7 552	0	8.88	2.00	10.88	107.2	0.00	88.56	-	-	0.00	0.00	-
KAR24	4 296	4 300	0	16.00	2.00	18.00	107.2	0.00	83.67	-	-	0.00	0.00	-
KAR25	3 401	3 406	0	19.20	2.00	21.20	107.2	0.00	81.64	-	-	0.00	0.00	-
MAA01	1 712	1 718	0	28.09	2.00	30.09	107.2	0.00	75.70	-	-	0.00	0.00	-
MAA03	2 036	2 041	0	25.93	2.00	27.93	107.2	0.00	77.20	-	-	0.00	0.00	-
MAA04	1 762	1 768	0	27.73	2.00	29.73	107.2	0.00	75.95	-	-	0.00	0.00	-
MAA05	2 447	2 451	0	23.58	2.00	25.58	107.2	0.00	78.79	-	-	0.00	0.00	-
MAA06	3 190	3 193	0	20.07	2.00	22.07	107.2	0.00	81.08	-	-	0.00	0.00	-
MAA07	3 473	3 476	0	18.92	2.00	20.92	107.2	0.00	81.82	-	-	0.00	0.00	-
MAA08	3 700	3 703	0	18.06	2.00	20.06	107.2	0.00	82.37	-	-	0.00	0.00	-
RAH01	3 336	3 339	0	21.20	2.00	23.20	106.9	0.00	81.47	-	-	0.00	0.00	-
RAH02	3 374	3 377	0	21.06	2.00	23.06	106.9	0.00	81.57	-	-	0.00	0.00	-
RAH03	2 710	2 715	0	23.75	2.00	25.75	106.9	0.00	79.67	-	-	0.00	0.00	-
RAH04	3 421	3 424	0	20.89	2.00	22.89	106.9	0.00	81.69	-	-	0.00	0.00	-
RAH05	2 613	2 617	0	24.20	2.00	26.20	106.9	0.00	79.36	-	-	0.00	0.00	-
RAH06	2 943	2 947	0	22.75	2.00	24.75	106.9	0.00	80.39	-	-	0.00	0.00	-
RAH07	4 569	4 571	0	17.21	2.00	19.21	106.9	0.00	84.20	-	-	0.00	0.00	-
RAH08	4 643	4 646	0	17.01	2.00	19.01	106.9	0.00	84.34	-	-	0.00	0.00	-
RAH09	3 865	3 868	0	19.35	2.00	21.35	106.9	0.00	82.75	-	-	0.00	0.00	-
RAH10	4 229	4 232	0	18.21	2.00	20.21	106.9	0.00	83.53	-	-	0.00	0.00	-
RAH11	2 983	2 987	0	22.59	2.00	24.59	106.9	0.00	80.51	-	-	0.00	0.00	-
RAH12	3 706	3 709	0	19.89	2.00	21.89	106.9	0.00	82.38	-	-	0.00	0.00	-
RAH13	3 621	3 624	0	20.18	2.00	22.18	106.9	0.00	82.18	-	-	0.00	0.00	-
RAH14	2 973	2 977	0	22.63	2.00	24.63	106.9	0.00	80.48	-	-	0.00	0.00	-
RAH15	3 849	3 853	0	19.40	2.00	21.40	106.9	0.00	82.72	-	-	0.00	0.00	-
RAH16	4 445	4 448	0	17.57	2.00	19.57	106.9	0.00	83.96	-	-	0.00	0.00	-
RAH17	2 976	2 981	0	22.61	2.00	24.61	106.9	0.00	80.49	-	-	0.00	0.00	-
RAH18	3 560	3 564	0	20.39	2.00	22.39	106.9	0.00	82.04	-	-	0.00	0.00	-
RAH19	3 645	3 649	0	20.09	2.00	22.09	106.9	0.00	82.24	-	-	0.00	0.00	-
SIL01	9 554	9 555	0	3.76	2.00	5.76	108.5	0.00	90.60	-	-	0.00	0.00	-
SIL02	9 065	9 067	0	4.49	2.00	6.49	108.5	0.00	90.15	-	-	0.00	0.00	-
SIL03	8 443	8 445	0	5.48	2.00	7.48	108.5	0.00	89.53	-	-	0.00	0.00	-
SIL04	8 431	8 432	0	5.50	2.00	7.50	108.5	0.00	89.52	-	-	0.00	0.00	-
SIL05	9 287	9 289	0	4.15	2.00	6.15	108.5	0.00	90.36	-	-	0.00	0.00	-
SIL06	8 919	8 921	0	4.71	2.00	6.71	108.5	0.00	90.01	-	-	0.00	0.00	-
SIL07	8 355	8 357	0	5.62	2.00	7.62	108.5	0.00	89.44	-	-	0.00	0.00	-
SIL08	8 699	8 701	0	5.06	2.00	7.06	108.5	0.00	89.79	-	-	0.00	0.00	-
Sum						39.14								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: Y Noise sensitive point: Finnish normal frequency - User defined (10)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	5 789	5 792	0	12.10	2.00	14.10	107.2	0.00	86.26	-	-	0.00	0.00	-
KAR02	5 176	5 180	0	13.43	2.00	15.43	107.2	0.00	85.29	-	-	0.00	0.00	-
KAR03	5 754	5 757	0	12.17	2.00	14.17	107.2	0.00	86.20	-	-	0.00	0.00	-
KAR04	6 445	6 448	0	10.80	2.00	12.80	107.2	0.00	87.19	-	-	0.00	0.00	-
KAR05	7 118	7 121	0	9.60	2.00	11.60	107.2	0.00	88.05	-	-	0.00	0.00	-
KAR06	6 067	6 070	0	11.53	2.00	13.53	107.2	0.00	86.66	-	-	0.00	0.00	-
KAR07	5 592	5 595	0	12.51	2.00	14.51	107.2	0.00	85.96	-	-	0.00	0.00	-
KAR08	5 255	5 258	0	13.25	2.00	15.25	107.2	0.00	85.42	-	-	0.00	0.00	-
KAR09	7 432	7 435	0	9.07	2.00	11.07	107.2	0.00	88.43	-	-	0.00	0.00	-
KAR10	6 932	6 935	0	9.92	2.00	11.92	107.2	0.00	87.82	-	-	0.00	0.00	-
KAR11	6 319	6 321	0	11.04	2.00	13.04	107.2	0.00	87.02	-	-	0.00	0.00	-
KAR12	7 236	7 238	0	9.40	2.00	11.40	107.2	0.00	88.19	-	-	0.00	0.00	-
KAR13	6 497	6 499	0	10.71	2.00	12.71	107.2	0.00	87.26	-	-	0.00	0.00	-
KAR14	7 772	7 775	0	8.53	2.00	10.53	107.2	0.00	88.81	-	-	0.00	0.00	-
KAR15	6 224	6 227	0	11.23	2.00	13.23	107.2	0.00	86.89	-	-	0.00	0.00	-
KAR16	7 836	7 838	0	8.43	2.00	10.43	107.2	0.00	88.88	-	-	0.00	0.00	-
KAR17	7 508	7 511	0	8.95	2.00	10.95	107.2	0.00	88.51	-	-	0.00	0.00	-
KAR18	8 442	8 445	0	7.52	2.00	9.52	107.2	0.00	89.53	-	-	0.00	0.00	-
KAR19	6 802	6 805	0	10.15	2.00	12.15	107.2	0.00	87.66	-	-	0.00	0.00	-
KAR20	8 192	8 195	0	7.88	2.00	9.88	107.2	0.00	89.27	-	-	0.00	0.00	-
KAR21	7 739	7 742	0	8.58	2.00	10.58	107.2	0.00	88.78	-	-	0.00	0.00	-
KAR22	7 596	7 598	0	8.81	2.00	10.81	107.2	0.00	88.61	-	-	0.00	0.00	-
KAR23	8 199	8 202	0	7.87	2.00	9.87	107.2	0.00	89.28	-	-	0.00	0.00	-
KAR24	6 292	6 294	0	11.09	2.00	13.09	107.2	0.00	86.98	-	-	0.00	0.00	-
KAR25	5 018	5 021	0	13.86	2.00	15.86	107.2	0.00	85.02	-	-	0.00	0.00	-
MAA01	2 679	2 682	0	22.39	2.00	24.39	107.2	0.00	79.57	-	-	0.00	0.00	-
MAA03	2 139	2 144	0	25.31	2.00	27.31	107.2	0.00	77.62	-	-	0.00	0.00	-
MAA04	981	992	0	34.59	2.00	36.59	107.2	0.00	70.93	-	-	0.00	0.00	-
MAA05	1 678	1 683	0	28.34	2.00	30.34	107.2	0.00	75.52	-	-	0.00	0.00	-
MAA06	1 186	1 195	0	32.45	2.00	34.45	107.2	0.00	72.54	-	-	0.00	0.00	-
MAA07	1 071	1 081	0	33.60	2.00	35.60	107.2	0.00	71.68	-	-	0.00	0.00	-
MAA08	1 203	1 212	0	32.28	2.00	34.28	107.2	0.00	72.67	-	-	0.00	0.00	-
RAH01	4 223	4 226	0	18.22	2.00	20.22	106.9	0.00	83.52	-	-	0.00	0.00	-
RAH02	3 722	3 725	0	19.83	2.00	21.83	106.9	0.00	82.42	-	-	0.00	0.00	-
RAH03	3 553	3 557	0	20.41	2.00	22.41	106.9	0.00	82.02	-	-	0.00	0.00	-
RAH04	3 288	3 291	0	21.39	2.00	23.39	106.9	0.00	81.35	-	-	0.00	0.00	-
RAH05	2 742	2 747	0	23.61	2.00	25.61	106.9	0.00	79.78	-	-	0.00	0.00	-
RAH06	2 374	2 379	0	25.34	2.00	27.34	106.9	0.00	78.53	-	-	0.00	0.00	-
RAH07	3 256	3 259	0	21.51	2.00	23.51	106.9	0.00	81.26	-	-	0.00	0.00	-
RAH08	3 725	3 728	0	19.82	2.00	21.82	106.9	0.00	82.43	-	-	0.00	0.00	-
RAH09	2 987	2 991	0	22.57	2.00	24.57	106.9	0.00	80.52	-	-	0.00	0.00	-
RAH10	3 745	3 748	0	19.75	2.00	21.75	106.9	0.00	82.48	-	-	0.00	0.00	-
RAH11	4 431	4 434	0	17.61	2.00	19.61	106.9	0.00	83.94	-	-	0.00	0.00	-
RAH12	5 111	5 114	0	15.76	2.00	17.76	106.9	0.00	85.17	-	-	0.00	0.00	-
RAH13	5 413	5 415	0	15.13	2.00	17.13	106.9	0.00	85.67	-	-	0.00	0.00	-
RAH14	4 859	4 862	0	16.42	2.00	18.42	106.9	0.00	84.74	-	-	0.00	0.00	-
RAH15	5 980	5 982	0	14.00	2.00	16.00	106.9	0.00	86.54	-	-	0.00	0.00	-
RAH16	6 343	6 345	0	13.32	2.00	15.32	106.9	0.00	87.05	-	-	0.00	0.00	-
RAH17	5 380	5 383	0	15.19	2.00	17.19	106.9	0.00	85.62	-	-	0.00	0.00	-
RAH18	5 883	5 886	0	14.18	2.00	16.18	106.9	0.00	86.40	-	-	0.00	0.00	-
RAH19	6 110	6 113	0	13.75	2.00	15.75	106.9	0.00	86.72	-	-	0.00	0.00	-
SIL01	11 967	11 968	0	0.70	2.00	2.70	108.5	0.00	92.56	-	-	0.00	0.00	-
SIL02	11 517	11 518	0	1.22	2.00	3.22	108.5	0.00	92.23	-	-	0.00	0.00	-
SIL03	10 917	10 918	0	1.94	2.00	3.94	108.5	0.00	91.76	-	-	0.00	0.00	-
SIL04	10 876	10 877	0	1.99	2.00	3.99	108.5	0.00	91.73	-	-	0.00	0.00	-
SIL05	11 660	11 661	0	1.05	2.00	3.05	108.5	0.00	92.33	-	-	0.00	0.00	-
SIL06	11 330	11 331	0	1.44	2.00	3.44	108.5	0.00	92.09	-	-	0.00	0.00	-
SIL07	10 756	10 758	0	2.14	2.00	4.14	108.5	0.00	91.63	-	-	0.00	0.00	-
SIL08	11 055	11 056	0	1.77	2.00	3.77	108.5	0.00	91.87	-	-	0.00	0.00	-
Sum						42.76								

- Data undefined due to calculation with octave data

Project:

JM_Rahkakuru

Licensed user:

Course Registration

Time-limited until December 19, 2024

Janne Mäkinen / janne.makinen@vindteknikk.com

Calculated:

2024-12-10 8.17/4.1.254

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: Z Noise sensitive point: Finnish normal frequency - User defined (37)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	3 466	3 471	0	18.94	2.00	20.94	107.2	0.00	81.81	-	-	0.00	0.00	-
KAR02	3 427	3 432	0	19.09	2.00	21.09	107.2	0.00	81.71	-	-	0.00	0.00	-
KAR03	3 744	3 749	0	17.89	2.00	19.89	107.2	0.00	82.48	-	-	0.00	0.00	-
KAR04	4 278	4 282	0	16.06	2.00	18.06	107.2	0.00	83.63	-	-	0.00	0.00	-
KAR05	4 818	4 822	0	14.42	2.00	16.42	107.2	0.00	84.66	-	-	0.00	0.00	-
KAR06	4 319	4 323	0	15.93	2.00	17.93	107.2	0.00	83.72	-	-	0.00	0.00	-
KAR07	4 249	4 253	0	16.16	2.00	18.16	107.2	0.00	83.57	-	-	0.00	0.00	-
KAR08	4 386	4 390	0	15.72	2.00	17.72	107.2	0.00	83.85	-	-	0.00	0.00	-
KAR09	5 303	5 306	0	13.14	2.00	15.14	107.2	0.00	85.50	-	-	0.00	0.00	-
KAR10	5 007	5 011	0	13.88	2.00	15.88	107.2	0.00	85.00	-	-	0.00	0.00	-
KAR11	4 876	4 879	0	14.25	2.00	16.25	107.2	0.00	84.77	-	-	0.00	0.00	-
KAR12	5 543	5 546	0	12.62	2.00	14.62	107.2	0.00	85.88	-	-	0.00	0.00	-
KAR13	5 289	5 293	0	13.17	2.00	15.17	107.2	0.00	85.47	-	-	0.00	0.00	-
KAR14	5 922	5 925	0	11.82	2.00	13.82	107.2	0.00	86.45	-	-	0.00	0.00	-
KAR15	5 331	5 334	0	13.08	2.00	15.08	107.2	0.00	85.54	-	-	0.00	0.00	-
KAR16	6 235	6 238	0	11.20	2.00	13.20	107.2	0.00	86.90	-	-	0.00	0.00	-
KAR17	6 168	6 171	0	11.33	2.00	13.33	107.2	0.00	86.81	-	-	0.00	0.00	-
KAR18	6 656	6 659	0	10.41	2.00	12.41	107.2	0.00	87.47	-	-	0.00	0.00	-
KAR19	6 098	6 101	0	11.47	2.00	13.47	107.2	0.00	86.71	-	-	0.00	0.00	-
KAR20	6 782	6 785	0	10.18	2.00	12.18	107.2	0.00	87.63	-	-	0.00	0.00	-
KAR21	6 624	6 627	0	10.47	2.00	12.47	107.2	0.00	87.43	-	-	0.00	0.00	-
KAR22	6 724	6 727	0	10.29	2.00	12.29	107.2	0.00	87.56	-	-	0.00	0.00	-
KAR23	7 268	7 271	0	9.34	2.00	11.34	107.2	0.00	88.23	-	-	0.00	0.00	-
KAR24	3 762	3 767	0	17.82	2.00	19.82	107.2	0.00	82.52	-	-	0.00	0.00	-
KAR25	2 976	2 982	0	20.99	2.00	22.99	107.2	0.00	80.49	-	-	0.00	0.00	-
MAA01	2 120	2 125	0	25.42	2.00	27.42	107.2	0.00	77.55	-	-	0.00	0.00	-
MAA03	2 552	2 556	0	23.03	2.00	25.03	107.2	0.00	79.15	-	-	0.00	0.00	-
MAA04	2 336	2 341	0	24.18	2.00	26.18	107.2	0.00	78.39	-	-	0.00	0.00	-
MAA05	3 010	3 013	0	20.85	2.00	22.85	107.2	0.00	80.58	-	-	0.00	0.00	-
MAA06	3 765	3 768	0	17.82	2.00	19.82	107.2	0.00	82.52	-	-	0.00	0.00	-
MAA07	4 031	4 034	0	16.88	2.00	18.88	107.2	0.00	83.11	-	-	0.00	0.00	-
MAA08	4 234	4 237	0	16.21	2.00	18.21	107.2	0.00	83.54	-	-	0.00	0.00	-
RAH01	3 604	3 607	0	20.24	2.00	22.24	106.9	0.00	82.14	-	-	0.00	0.00	-
RAH02	3 757	3 760	0	19.71	2.00	21.71	106.9	0.00	82.50	-	-	0.00	0.00	-
RAH03	3 033	3 037	0	22.38	2.00	24.38	106.9	0.00	80.65	-	-	0.00	0.00	-
RAH04	3 879	3 882	0	19.31	2.00	21.31	106.9	0.00	82.78	-	-	0.00	0.00	-
RAH05	3 079	3 083	0	22.20	2.00	24.20	106.9	0.00	80.78	-	-	0.00	0.00	-
RAH06	3 472	3 476	0	20.70	2.00	22.70	106.9	0.00	81.82	-	-	0.00	0.00	-
RAH07	5 119	5 122	0	15.75	2.00	17.75	106.9	0.00	85.19	-	-	0.00	0.00	-
RAH08	5 160	5 162	0	15.66	2.00	17.66	106.9	0.00	85.26	-	-	0.00	0.00	-
RAH09	4 393	4 396	0	17.72	2.00	19.72	106.9	0.00	83.86	-	-	0.00	0.00	-
RAH10	4 706	4 709	0	16.83	2.00	18.83	106.9	0.00	84.46	-	-	0.00	0.00	-
RAH11	3 111	3 115	0	22.07	2.00	24.07	106.9	0.00	80.87	-	-	0.00	0.00	-
RAH12	3 806	3 809	0	19.55	2.00	21.55	106.9	0.00	82.62	-	-	0.00	0.00	-
RAH13	3 582	3 586	0	20.31	2.00	22.31	106.9	0.00	82.09	-	-	0.00	0.00	-
RAH14	2 927	2 932	0	22.82	2.00	24.82	106.9	0.00	80.34	-	-	0.00	0.00	-
RAH15	3 644	3 648	0	20.10	2.00	22.10	106.9	0.00	82.24	-	-	0.00	0.00	-
RAH16	4 333	4 335	0	17.90	2.00	19.90	106.9	0.00	83.74	-	-	0.00	0.00	-
RAH17	2 611	2 617	0	24.20	2.00	26.20	106.9	0.00	79.36	-	-	0.00	0.00	-
RAH18	3 246	3 250	0	21.54	2.00	23.54	106.9	0.00	81.24	-	-	0.00	0.00	-
RAH19	3 202	3 207	0	21.71	2.00	23.71	106.9	0.00	81.12	-	-	0.00	0.00	-
SIL01	9 131	9 132	0	4.39	2.00	6.39	108.5	0.00	90.21	-	-	0.00	0.00	-
SIL02	8 614	8 615	0	5.20	2.00	7.20	108.5	0.00	89.71	-	-	0.00	0.00	-
SIL03	7 971	7 973	0	6.28	2.00	8.28	108.5	0.00	89.03	-	-	0.00	0.00	-
SIL04	7 986	7 988	0	6.25	2.00	8.25	108.5	0.00	89.05	-	-	0.00	0.00	-
SIL05	8 892	8 893	0	4.76	2.00	6.76	108.5	0.00	89.98	-	-	0.00	0.00	-
SIL06	8 499	8 501	0	5.38	2.00	7.38	108.5	0.00	89.59	-	-	0.00	0.00	-
SIL07	7 944	7 945	0	6.33	2.00	8.33	108.5	0.00	89.00	-	-	0.00	0.00	-
SIL08	8 316	8 317	0	5.69	2.00	7.69	108.5	0.00	89.40	-	-	0.00	0.00	-
Sum						38.16								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AA Noise sensitive point: Finnish normal frequency - User defined (48)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	4 070	4 075	0	16.74	2.00	18.74	107.2	0.00	83.20	-	-	0.00	0.00	-
KAR02	3 710	3 715	0	18.01	2.00	20.01	107.2	0.00	82.40	-	-	0.00	0.00	-
KAR03	4 180	4 184	0	16.38	2.00	18.38	107.2	0.00	83.43	-	-	0.00	0.00	-
KAR04	4 813	4 817	0	14.43	2.00	16.43	107.2	0.00	84.65	-	-	0.00	0.00	-
KAR05	5 435	5 439	0	12.85	2.00	14.85	107.2	0.00	85.71	-	-	0.00	0.00	-
KAR06	4 635	4 639	0	14.95	2.00	16.95	107.2	0.00	84.33	-	-	0.00	0.00	-
KAR07	4 364	4 367	0	15.79	2.00	17.79	107.2	0.00	83.80	-	-	0.00	0.00	-
KAR08	4 289	4 293	0	16.02	2.00	18.02	107.2	0.00	83.66	-	-	0.00	0.00	-
KAR09	5 836	5 839	0	12.00	2.00	14.00	107.2	0.00	86.33	-	-	0.00	0.00	-
KAR10	5 430	5 434	0	12.86	2.00	14.86	107.2	0.00	85.70	-	-	0.00	0.00	-
KAR11	5 060	5 063	0	13.74	2.00	15.74	107.2	0.00	85.09	-	-	0.00	0.00	-
KAR12	5 863	5 866	0	11.94	2.00	13.94	107.2	0.00	86.37	-	-	0.00	0.00	-
KAR13	5 377	5 380	0	12.98	2.00	14.98	107.2	0.00	85.62	-	-	0.00	0.00	-
KAR14	6 324	6 328	0	11.03	2.00	13.03	107.2	0.00	87.02	-	-	0.00	0.00	-
KAR15	5 281	5 285	0	13.19	2.00	15.19	107.2	0.00	85.46	-	-	0.00	0.00	-
KAR16	6 524	6 527	0	10.66	2.00	12.66	107.2	0.00	87.29	-	-	0.00	0.00	-
KAR17	6 336	6 339	0	11.01	2.00	13.01	107.2	0.00	87.04	-	-	0.00	0.00	-
KAR18	7 038	7 041	0	9.73	2.00	11.73	107.2	0.00	87.95	-	-	0.00	0.00	-
KAR19	5 991	5 994	0	11.68	2.00	13.68	107.2	0.00	86.55	-	-	0.00	0.00	-
KAR20	6 993	6 996	0	9.81	2.00	11.81	107.2	0.00	87.90	-	-	0.00	0.00	-
KAR21	6 703	6 706	0	10.33	2.00	12.33	107.2	0.00	87.53	-	-	0.00	0.00	-
KAR22	6 701	6 704	0	10.33	2.00	12.33	107.2	0.00	87.53	-	-	0.00	0.00	-
KAR23	7 281	7 283	0	9.32	2.00	11.32	107.2	0.00	88.25	-	-	0.00	0.00	-
KAR24	4 495	4 499	0	15.38	2.00	17.38	107.2	0.00	84.06	-	-	0.00	0.00	-
KAR25	3 401	3 406	0	19.19	2.00	21.19	107.2	0.00	81.65	-	-	0.00	0.00	-
MAA01	2 033	2 038	0	25.95	2.00	27.95	107.2	0.00	77.19	-	-	0.00	0.00	-
MAA03	2 111	2 116	0	25.48	2.00	27.48	107.2	0.00	77.51	-	-	0.00	0.00	-
MAA04	1 412	1 420	0	30.41	2.00	32.41	107.2	0.00	74.04	-	-	0.00	0.00	-
MAA05	2 318	2 322	0	24.28	2.00	26.28	107.2	0.00	78.32	-	-	0.00	0.00	-
MAA06	2 809	2 813	0	21.77	2.00	23.77	107.2	0.00	79.98	-	-	0.00	0.00	-
MAA07	2 980	2 983	0	20.98	2.00	22.98	107.2	0.00	80.49	-	-	0.00	0.00	-
MAA08	3 140	3 144	0	20.28	2.00	22.28	107.2	0.00	80.95	-	-	0.00	0.00	-
RAH01	3 757	3 760	0	19.71	2.00	21.71	106.9	0.00	82.50	-	-	0.00	0.00	-
RAH02	3 652	3 655	0	20.07	2.00	22.07	106.9	0.00	82.26	-	-	0.00	0.00	-
RAH03	3 089	3 093	0	22.16	2.00	24.16	106.9	0.00	80.81	-	-	0.00	0.00	-
RAH04	3 569	3 572	0	20.36	2.00	22.36	106.9	0.00	82.06	-	-	0.00	0.00	-
RAH05	2 775	2 779	0	23.47	2.00	25.47	106.9	0.00	79.88	-	-	0.00	0.00	-
RAH06	2 933	2 937	0	22.79	2.00	24.79	106.9	0.00	80.36	-	-	0.00	0.00	-
RAH07	4 442	4 445	0	17.58	2.00	19.58	106.9	0.00	83.96	-	-	0.00	0.00	-
RAH08	4 629	4 632	0	17.04	2.00	19.04	106.9	0.00	84.32	-	-	0.00	0.00	-
RAH09	3 831	3 835	0	19.46	2.00	21.46	106.9	0.00	82.67	-	-	0.00	0.00	-
RAH10	4 319	4 322	0	17.94	2.00	19.94	106.9	0.00	83.71	-	-	0.00	0.00	-
RAH11	3 532	3 536	0	20.49	2.00	22.49	106.9	0.00	81.97	-	-	0.00	0.00	-
RAH12	4 263	4 265	0	18.11	2.00	20.11	106.9	0.00	83.60	-	-	0.00	0.00	-
RAH13	4 255	4 257	0	18.13	2.00	20.13	106.9	0.00	83.58	-	-	0.00	0.00	-
RAH14	3 615	3 619	0	20.20	2.00	22.20	106.9	0.00	82.17	-	-	0.00	0.00	-
RAH15	4 532	4 535	0	17.32	2.00	19.32	106.9	0.00	84.13	-	-	0.00	0.00	-
RAH16	5 103	5 105	0	15.78	2.00	17.78	106.9	0.00	85.16	-	-	0.00	0.00	-
RAH17	3 657	3 661	0	20.05	2.00	22.05	106.9	0.00	82.27	-	-	0.00	0.00	-
RAH18	4 248	4 252	0	18.15	2.00	20.15	106.9	0.00	83.57	-	-	0.00	0.00	-
RAH19	4 300	4 304	0	17.99	2.00	19.99	106.9	0.00	83.68	-	-	0.00	0.00	-
SIL01	10 222	10 223	0	2.84	2.00	4.84	108.5	0.00	91.19	-	-	0.00	0.00	-
SIL02	9 720	9 721	0	3.53	2.00	5.53	108.5	0.00	90.75	-	-	0.00	0.00	-
SIL03	9 084	9 086	0	4.46	2.00	6.46	108.5	0.00	90.17	-	-	0.00	0.00	-
SIL04	9 088	9 090	0	4.45	2.00	6.45	108.5	0.00	90.17	-	-	0.00	0.00	-
SIL05	9 964	9 966	0	3.19	2.00	5.19	108.5	0.00	90.97	-	-	0.00	0.00	-
SIL06	9 588	9 590	0	3.71	2.00	5.71	108.5	0.00	90.64	-	-	0.00	0.00	-
SIL07	9 027	9 029	0	4.55	2.00	6.55	108.5	0.00	90.11	-	-	0.00	0.00	-
SIL08	9 380	9 381	0	4.02	2.00	6.02	108.5	0.00	90.45	-	-	0.00	0.00	-
Sum						38.96								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AB Noise sensitive point: Finnish normal frequency - User defined (29)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	4 070	4 075	0	16.74	2.00	18.74	107.2	0.00	83.20	-	-	0.00	0.00	-
KAR02	3 710	3 715	0	18.01	2.00	20.01	107.2	0.00	82.40	-	-	0.00	0.00	-
KAR03	4 180	4 184	0	16.38	2.00	18.38	107.2	0.00	83.43	-	-	0.00	0.00	-
KAR04	4 813	4 817	0	14.43	2.00	16.43	107.2	0.00	84.65	-	-	0.00	0.00	-
KAR05	5 435	5 439	0	12.85	2.00	14.85	107.2	0.00	85.71	-	-	0.00	0.00	-
KAR06	4 635	4 639	0	14.95	2.00	16.95	107.2	0.00	84.33	-	-	0.00	0.00	-
KAR07	4 364	4 367	0	15.79	2.00	17.79	107.2	0.00	83.80	-	-	0.00	0.00	-
KAR08	4 289	4 293	0	16.02	2.00	18.02	107.2	0.00	83.66	-	-	0.00	0.00	-
KAR09	5 836	5 839	0	12.00	2.00	14.00	107.2	0.00	86.33	-	-	0.00	0.00	-
KAR10	5 430	5 434	0	12.86	2.00	14.86	107.2	0.00	85.70	-	-	0.00	0.00	-
KAR11	5 060	5 063	0	13.74	2.00	15.74	107.2	0.00	85.09	-	-	0.00	0.00	-
KAR12	5 863	5 866	0	11.94	2.00	13.94	107.2	0.00	86.37	-	-	0.00	0.00	-
KAR13	5 377	5 380	0	12.98	2.00	14.98	107.2	0.00	85.62	-	-	0.00	0.00	-
KAR14	6 324	6 328	0	11.03	2.00	13.03	107.2	0.00	87.02	-	-	0.00	0.00	-
KAR15	5 281	5 285	0	13.19	2.00	15.19	107.2	0.00	85.46	-	-	0.00	0.00	-
KAR16	6 524	6 527	0	10.66	2.00	12.66	107.2	0.00	87.29	-	-	0.00	0.00	-
KAR17	6 336	6 339	0	11.01	2.00	13.01	107.2	0.00	87.04	-	-	0.00	0.00	-
KAR18	7 038	7 041	0	9.73	2.00	11.73	107.2	0.00	87.95	-	-	0.00	0.00	-
KAR19	5 991	5 994	0	11.68	2.00	13.68	107.2	0.00	86.55	-	-	0.00	0.00	-
KAR20	6 993	6 996	0	9.81	2.00	11.81	107.2	0.00	87.90	-	-	0.00	0.00	-
KAR21	6 703	6 706	0	10.33	2.00	12.33	107.2	0.00	87.53	-	-	0.00	0.00	-
KAR22	6 701	6 704	0	10.33	2.00	12.33	107.2	0.00	87.53	-	-	0.00	0.00	-
KAR23	7 281	7 283	0	9.32	2.00	11.32	107.2	0.00	88.25	-	-	0.00	0.00	-
KAR24	4 495	4 499	0	15.38	2.00	17.38	107.2	0.00	84.06	-	-	0.00	0.00	-
KAR25	3 401	3 406	0	19.19	2.00	21.19	107.2	0.00	81.65	-	-	0.00	0.00	-
MAA01	2 033	2 038	0	25.95	2.00	27.95	107.2	0.00	77.19	-	-	0.00	0.00	-
MAA03	2 111	2 116	0	25.48	2.00	27.48	107.2	0.00	77.51	-	-	0.00	0.00	-
MAA04	1 412	1 420	0	30.41	2.00	32.41	107.2	0.00	74.04	-	-	0.00	0.00	-
MAA05	2 318	2 322	0	24.28	2.00	26.28	107.2	0.00	78.32	-	-	0.00	0.00	-
MAA06	2 809	2 813	0	21.77	2.00	23.77	107.2	0.00	79.98	-	-	0.00	0.00	-
MAA07	2 980	2 983	0	20.98	2.00	22.98	107.2	0.00	80.49	-	-	0.00	0.00	-
MAA08	3 140	3 144	0	20.28	2.00	22.28	107.2	0.00	80.95	-	-	0.00	0.00	-
RAH01	3 757	3 760	0	19.71	2.00	21.71	106.9	0.00	82.50	-	-	0.00	0.00	-
RAH02	3 652	3 655	0	20.07	2.00	22.07	106.9	0.00	82.26	-	-	0.00	0.00	-
RAH03	3 089	3 093	0	22.16	2.00	24.16	106.9	0.00	80.81	-	-	0.00	0.00	-
RAH04	3 569	3 572	0	20.36	2.00	22.36	106.9	0.00	82.06	-	-	0.00	0.00	-
RAH05	2 775	2 779	0	23.47	2.00	25.47	106.9	0.00	79.88	-	-	0.00	0.00	-
RAH06	2 933	2 937	0	22.79	2.00	24.79	106.9	0.00	80.36	-	-	0.00	0.00	-
RAH07	4 442	4 445	0	17.58	2.00	19.58	106.9	0.00	83.96	-	-	0.00	0.00	-
RAH08	4 629	4 632	0	17.04	2.00	19.04	106.9	0.00	84.32	-	-	0.00	0.00	-
RAH09	3 831	3 835	0	19.46	2.00	21.46	106.9	0.00	82.67	-	-	0.00	0.00	-
RAH10	4 319	4 322	0	17.94	2.00	19.94	106.9	0.00	83.71	-	-	0.00	0.00	-
RAH11	3 532	3 536	0	20.49	2.00	22.49	106.9	0.00	81.97	-	-	0.00	0.00	-
RAH12	4 263	4 265	0	18.11	2.00	20.11	106.9	0.00	83.60	-	-	0.00	0.00	-
RAH13	4 255	4 257	0	18.13	2.00	20.13	106.9	0.00	83.58	-	-	0.00	0.00	-
RAH14	3 615	3 619	0	20.20	2.00	22.20	106.9	0.00	82.17	-	-	0.00	0.00	-
RAH15	4 532	4 535	0	17.32	2.00	19.32	106.9	0.00	84.13	-	-	0.00	0.00	-
RAH16	5 103	5 105	0	15.78	2.00	17.78	106.9	0.00	85.16	-	-	0.00	0.00	-
RAH17	3 657	3 661	0	20.05	2.00	22.05	106.9	0.00	82.27	-	-	0.00	0.00	-
RAH18	4 248	4 252	0	18.15	2.00	20.15	106.9	0.00	83.57	-	-	0.00	0.00	-
RAH19	4 300	4 304	0	17.99	2.00	19.99	106.9	0.00	83.68	-	-	0.00	0.00	-
SIL01	10 222	10 223	0	2.84	2.00	4.84	108.5	0.00	91.19	-	-	0.00	0.00	-
SIL02	9 720	9 721	0	3.53	2.00	5.53	108.5	0.00	90.75	-	-	0.00	0.00	-
SIL03	9 084	9 086	0	4.46	2.00	6.46	108.5	0.00	90.17	-	-	0.00	0.00	-
SIL04	9 088	9 090	0	4.45	2.00	6.45	108.5	0.00	90.17	-	-	0.00	0.00	-
SIL05	9 964	9 966	0	3.19	2.00	5.19	108.5	0.00	90.97	-	-	0.00	0.00	-
SIL06	9 588	9 590	0	3.71	2.00	5.71	108.5	0.00	90.64	-	-	0.00	0.00	-
SIL07	9 027	9 029	0	4.55	2.00	6.55	108.5	0.00	90.11	-	-	0.00	0.00	-
SIL08	9 380	9 381	0	4.02	2.00	6.02	108.5	0.00	90.45	-	-	0.00	0.00	-
Sum						38.96								

- Data undefined due to calculation with octave data

Project:

JM_Rahkakuru

Licensed user:

Course Registration

Time-limited until December 19, 2024

Janne Mäkinen / janne.makinen@vindteknikk.com

Calculated:

2024-12-10 8.17/4.1.254

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AC Noise sensitive point: Finnish normal frequency - User defined (47)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	3 890	3 894	0	17.37	2.00	19.37	107.2	0.00	82.81	-	-	0.00	0.00	-
KAR02	3 579	3 584	0	18.50	2.00	20.50	107.2	0.00	82.09	-	-	0.00	0.00	-
KAR03	4 026	4 030	0	16.89	2.00	18.89	107.2	0.00	83.11	-	-	0.00	0.00	-
KAR04	4 645	4 649	0	14.92	2.00	16.92	107.2	0.00	84.35	-	-	0.00	0.00	-
KAR05	5 256	5 260	0	13.25	2.00	15.25	107.2	0.00	85.42	-	-	0.00	0.00	-
KAR06	4 503	4 507	0	15.35	2.00	17.35	107.2	0.00	84.08	-	-	0.00	0.00	-
KAR07	4 267	4 271	0	16.10	2.00	18.10	107.2	0.00	83.61	-	-	0.00	0.00	-
KAR08	4 235	4 239	0	16.20	2.00	18.20	107.2	0.00	83.54	-	-	0.00	0.00	-
KAR09	5 671	5 675	0	12.34	2.00	14.34	107.2	0.00	86.08	-	-	0.00	0.00	-
KAR10	5 283	5 286	0	13.19	2.00	15.19	107.2	0.00	85.46	-	-	0.00	0.00	-
KAR11	4 954	4 957	0	14.03	2.00	16.03	107.2	0.00	84.90	-	-	0.00	0.00	-
KAR12	5 734	5 737	0	12.21	2.00	14.21	107.2	0.00	86.17	-	-	0.00	0.00	-
KAR13	5 290	5 293	0	13.17	2.00	15.17	107.2	0.00	85.47	-	-	0.00	0.00	-
KAR14	6 182	6 186	0	11.30	2.00	13.30	107.2	0.00	86.83	-	-	0.00	0.00	-
KAR15	5 221	5 225	0	13.33	2.00	15.33	107.2	0.00	85.36	-	-	0.00	0.00	-
KAR16	6 403	6 405	0	10.88	2.00	12.88	107.2	0.00	87.13	-	-	0.00	0.00	-
KAR17	6 237	6 240	0	11.20	2.00	13.20	107.2	0.00	86.90	-	-	0.00	0.00	-
KAR18	6 901	6 904	0	9.97	2.00	11.97	107.2	0.00	87.78	-	-	0.00	0.00	-
KAR19	5 946	5 949	0	11.78	2.00	13.78	107.2	0.00	86.49	-	-	0.00	0.00	-
KAR20	6 887	6 890	0	10.00	2.00	12.00	107.2	0.00	87.76	-	-	0.00	0.00	-
KAR21	6 621	6 624	0	10.48	2.00	12.48	107.2	0.00	87.42	-	-	0.00	0.00	-
KAR22	6 640	6 643	0	10.44	2.00	12.44	107.2	0.00	87.45	-	-	0.00	0.00	-
KAR23	7 214	7 216	0	9.44	2.00	11.44	107.2	0.00	88.17	-	-	0.00	0.00	-
KAR24	4 297	4 301	0	16.00	2.00	18.00	107.2	0.00	83.67	-	-	0.00	0.00	-
KAR25	3 244	3 249	0	19.83	2.00	21.83	107.2	0.00	81.24	-	-	0.00	0.00	-
MAA01	2 052	2 057	0	25.83	2.00	27.83	107.2	0.00	77.26	-	-	0.00	0.00	-
MAA03	2 210	2 215	0	24.89	2.00	26.89	107.2	0.00	77.91	-	-	0.00	0.00	-
MAA04	1 612	1 619	0	28.82	2.00	30.82	107.2	0.00	75.18	-	-	0.00	0.00	-
MAA05	2 475	2 479	0	23.43	2.00	25.43	107.2	0.00	78.89	-	-	0.00	0.00	-
MAA06	3 023	3 026	0	20.79	2.00	22.79	107.2	0.00	80.62	-	-	0.00	0.00	-
MAA07	3 208	3 211	0	19.99	2.00	21.99	107.2	0.00	81.13	-	-	0.00	0.00	-
MAA08	3 372	3 375	0	19.32	2.00	21.32	107.2	0.00	81.57	-	-	0.00	0.00	-
RAH01	3 748	3 752	0	19.74	2.00	21.74	106.9	0.00	82.48	-	-	0.00	0.00	-
RAH02	3 697	3 700	0	19.92	2.00	21.92	106.9	0.00	82.36	-	-	0.00	0.00	-
RAH03	3 095	3 099	0	22.13	2.00	24.13	106.9	0.00	80.82	-	-	0.00	0.00	-
RAH04	3 656	3 659	0	20.06	2.00	22.06	106.9	0.00	82.27	-	-	0.00	0.00	-
RAH05	2 853	2 857	0	23.13	2.00	25.13	106.9	0.00	80.12	-	-	0.00	0.00	-
RAH06	3 063	3 067	0	22.26	2.00	24.26	106.9	0.00	80.73	-	-	0.00	0.00	-
RAH07	4 607	4 610	0	17.11	2.00	19.11	106.9	0.00	84.27	-	-	0.00	0.00	-
RAH08	4 766	4 769	0	16.67	2.00	18.67	106.9	0.00	84.57	-	-	0.00	0.00	-
RAH09	3 972	3 975	0	19.01	2.00	21.01	106.9	0.00	82.99	-	-	0.00	0.00	-
RAH10	4 426	4 429	0	17.62	2.00	19.62	106.9	0.00	83.93	-	-	0.00	0.00	-
RAH11	3 467	3 470	0	20.72	2.00	22.72	106.9	0.00	81.81	-	-	0.00	0.00	-
RAH12	4 194	4 197	0	18.31	2.00	20.31	106.9	0.00	83.46	-	-	0.00	0.00	-
RAH13	4 141	4 144	0	18.48	2.00	20.48	106.9	0.00	83.35	-	-	0.00	0.00	-
RAH14	3 495	3 499	0	20.62	2.00	22.62	106.9	0.00	81.88	-	-	0.00	0.00	-
RAH15	4 372	4 375	0	17.78	2.00	19.78	106.9	0.00	83.82	-	-	0.00	0.00	-
RAH16	4 971	4 973	0	16.12	2.00	18.12	106.9	0.00	84.93	-	-	0.00	0.00	-
RAH17	3 458	3 462	0	20.75	2.00	22.75	106.9	0.00	81.79	-	-	0.00	0.00	-
RAH18	4 061	4 065	0	18.72	2.00	20.72	106.9	0.00	83.18	-	-	0.00	0.00	-
RAH19	4 086	4 090	0	18.64	2.00	20.64	106.9	0.00	83.23	-	-	0.00	0.00	-
SIL01	10 011	10 012	0	3.12	2.00	5.12	108.5	0.00	91.01	-	-	0.00	0.00	-
SIL02	9 503	9 504	0	3.84	2.00	5.84	108.5	0.00	90.56	-	-	0.00	0.00	-
SIL03	8 863	8 865	0	4.80	2.00	6.80	108.5	0.00	89.95	-	-	0.00	0.00	-
SIL04	8 873	8 874	0	4.79	2.00	6.79	108.5	0.00	89.96	-	-	0.00	0.00	-
SIL05	9 760	9 761	0	3.47	2.00	5.47	108.5	0.00	90.79	-	-	0.00	0.00	-
SIL06	9 378	9 380	0	4.02	2.00	6.02	108.5	0.00	90.44	-	-	0.00	0.00	-
SIL07	8 819	8 820	0	4.87	2.00	6.87	108.5	0.00	89.91	-	-	0.00	0.00	-
SIL08	9 178	9 180	0	4.32	2.00	6.32	108.5	0.00	90.26	-	-	0.00	0.00	-
Sum						38.54								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AD Noise sensitive point: Finnish normal frequency - User defined (45)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	3 842	3 847	0	17.53	2.00	19.53	107.2	0.00	82.70	-	-	0.00	0.00	-
KAR02	3 543	3 548	0	18.64	2.00	20.64	107.2	0.00	82.00	-	-	0.00	0.00	-
KAR03	3 984	3 989	0	17.04	2.00	19.04	107.2	0.00	83.02	-	-	0.00	0.00	-
KAR04	4 600	4 604	0	15.06	2.00	17.06	107.2	0.00	84.26	-	-	0.00	0.00	-
KAR05	5 209	5 213	0	13.35	2.00	15.35	107.2	0.00	85.34	-	-	0.00	0.00	-
KAR06	4 466	4 471	0	15.46	2.00	17.46	107.2	0.00	84.01	-	-	0.00	0.00	-
KAR07	4 239	4 243	0	16.19	2.00	18.19	107.2	0.00	83.55	-	-	0.00	0.00	-
KAR08	4 216	4 220	0	16.26	2.00	18.26	107.2	0.00	83.51	-	-	0.00	0.00	-
KAR09	5 627	5 631	0	12.44	2.00	14.44	107.2	0.00	86.01	-	-	0.00	0.00	-
KAR10	5 242	5 246	0	13.28	2.00	15.28	107.2	0.00	85.40	-	-	0.00	0.00	-
KAR11	4 922	4 926	0	14.12	2.00	16.12	107.2	0.00	84.85	-	-	0.00	0.00	-
KAR12	5 698	5 701	0	12.29	2.00	14.29	107.2	0.00	86.12	-	-	0.00	0.00	-
KAR13	5 263	5 267	0	13.23	2.00	15.23	107.2	0.00	85.43	-	-	0.00	0.00	-
KAR14	6 143	6 146	0	11.38	2.00	13.38	107.2	0.00	86.77	-	-	0.00	0.00	-
KAR15	5 201	5 204	0	13.37	2.00	15.37	107.2	0.00	85.33	-	-	0.00	0.00	-
KAR16	6 368	6 371	0	10.95	2.00	12.95	107.2	0.00	87.08	-	-	0.00	0.00	-
KAR17	6 207	6 210	0	11.26	2.00	13.26	107.2	0.00	86.86	-	-	0.00	0.00	-
KAR18	6 863	6 866	0	10.04	2.00	12.04	107.2	0.00	87.73	-	-	0.00	0.00	-
KAR19	5 928	5 931	0	11.81	2.00	13.81	107.2	0.00	86.46	-	-	0.00	0.00	-
KAR20	6 856	6 859	0	10.05	2.00	12.05	107.2	0.00	87.72	-	-	0.00	0.00	-
KAR21	6 596	6 599	0	10.52	2.00	12.52	107.2	0.00	87.39	-	-	0.00	0.00	-
KAR22	6 619	6 622	0	10.48	2.00	12.48	107.2	0.00	87.42	-	-	0.00	0.00	-
KAR23	7 191	7 194	0	9.47	2.00	11.47	107.2	0.00	88.14	-	-	0.00	0.00	-
KAR24	4 246	4 250	0	16.16	2.00	18.16	107.2	0.00	83.57	-	-	0.00	0.00	-
KAR25	3 202	3 208	0	20.01	2.00	22.01	107.2	0.00	81.12	-	-	0.00	0.00	-
MAA01	2 068	2 073	0	25.73	2.00	27.73	107.2	0.00	77.33	-	-	0.00	0.00	-
MAA03	2 243	2 248	0	24.70	2.00	26.70	107.2	0.00	78.04	-	-	0.00	0.00	-
MAA04	1 664	1 671	0	28.43	2.00	30.43	107.2	0.00	75.46	-	-	0.00	0.00	-
MAA05	2 520	2 524	0	23.20	2.00	25.20	107.2	0.00	79.04	-	-	0.00	0.00	-
MAA06	3 077	3 080	0	20.55	2.00	22.55	107.2	0.00	80.77	-	-	0.00	0.00	-
MAA07	3 264	3 267	0	19.76	2.00	21.76	107.2	0.00	81.28	-	-	0.00	0.00	-
MAA08	3 427	3 431	0	19.10	2.00	21.10	107.2	0.00	81.71	-	-	0.00	0.00	-
RAH01	3 757	3 760	0	19.71	2.00	21.71	106.9	0.00	82.50	-	-	0.00	0.00	-
RAH02	3 717	3 720	0	19.85	2.00	21.85	106.9	0.00	82.41	-	-	0.00	0.00	-
RAH03	3 107	3 110	0	22.09	2.00	24.09	106.9	0.00	80.86	-	-	0.00	0.00	-
RAH04	3 686	3 689	0	19.96	2.00	21.96	106.9	0.00	82.34	-	-	0.00	0.00	-
RAH05	2 882	2 886	0	23.01	2.00	25.01	106.9	0.00	80.21	-	-	0.00	0.00	-
RAH06	3 102	3 106	0	22.10	2.00	24.10	106.9	0.00	80.84	-	-	0.00	0.00	-
RAH07	4 653	4 656	0	16.98	2.00	18.98	106.9	0.00	84.36	-	-	0.00	0.00	-
RAH08	4 806	4 809	0	16.56	2.00	18.56	106.9	0.00	84.64	-	-	0.00	0.00	-
RAH09	4 012	4 015	0	18.88	2.00	20.88	106.9	0.00	83.07	-	-	0.00	0.00	-
RAH10	4 460	4 462	0	17.53	2.00	19.53	106.9	0.00	83.99	-	-	0.00	0.00	-
RAH11	3 461	3 465	0	20.74	2.00	22.74	106.9	0.00	81.79	-	-	0.00	0.00	-
RAH12	4 188	4 190	0	18.33	2.00	20.33	106.9	0.00	83.45	-	-	0.00	0.00	-
RAH13	4 123	4 126	0	18.53	2.00	20.53	106.9	0.00	83.31	-	-	0.00	0.00	-
RAH14	3 476	3 479	0	20.69	2.00	22.69	106.9	0.00	81.83	-	-	0.00	0.00	-
RAH15	4 341	4 345	0	17.87	2.00	19.87	106.9	0.00	83.76	-	-	0.00	0.00	-
RAH16	4 947	4 950	0	16.18	2.00	18.18	106.9	0.00	84.89	-	-	0.00	0.00	-
RAH17	3 415	3 420	0	20.91	2.00	22.91	106.9	0.00	81.68	-	-	0.00	0.00	-
RAH18	4 022	4 026	0	18.84	2.00	20.84	106.9	0.00	83.10	-	-	0.00	0.00	-
RAH19	4 038	4 042	0	18.79	2.00	20.79	106.9	0.00	83.13	-	-	0.00	0.00	-
SIL01	9 964	9 966	0	3.19	2.00	5.19	108.5	0.00	90.97	-	-	0.00	0.00	-
SIL02	9 454	9 455	0	3.91	2.00	5.91	108.5	0.00	90.51	-	-	0.00	0.00	-
SIL03	8 813	8 815	0	4.88	2.00	6.88	108.5	0.00	89.90	-	-	0.00	0.00	-
SIL04	8 825	8 826	0	4.86	2.00	6.86	108.5	0.00	89.92	-	-	0.00	0.00	-
SIL05	9 716	9 717	0	3.53	2.00	5.53	108.5	0.00	90.75	-	-	0.00	0.00	-
SIL06	9 332	9 333	0	4.09	2.00	6.09	108.5	0.00	90.40	-	-	0.00	0.00	-
SIL07	8 773	8 775	0	4.94	2.00	6.94	108.5	0.00	89.86	-	-	0.00	0.00	-
SIL08	9 135	9 136	0	4.38	2.00	6.38	108.5	0.00	90.22	-	-	0.00	0.00	-
Sum						38.44								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AE Noise sensitive point: Finnish normal frequency - User defined (46)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	3 829	3 834	0	17.58	2.00	19.58	107.2	0.00	82.67	-	-	0.00	0.00	-
KAR02	3 527	3 532	0	18.70	2.00	20.70	107.2	0.00	81.96	-	-	0.00	0.00	-
KAR03	3 969	3 974	0	17.09	2.00	19.09	107.2	0.00	82.98	-	-	0.00	0.00	-
KAR04	4 586	4 590	0	15.10	2.00	17.10	107.2	0.00	84.24	-	-	0.00	0.00	-
KAR05	5 196	5 200	0	13.39	2.00	15.39	107.2	0.00	85.32	-	-	0.00	0.00	-
KAR06	4 450	4 455	0	15.51	2.00	17.51	107.2	0.00	83.98	-	-	0.00	0.00	-
KAR07	4 222	4 225	0	16.24	2.00	18.24	107.2	0.00	83.52	-	-	0.00	0.00	-
KAR08	4 198	4 202	0	16.32	2.00	18.32	107.2	0.00	83.47	-	-	0.00	0.00	-
KAR09	5 613	5 616	0	12.47	2.00	14.47	107.2	0.00	85.99	-	-	0.00	0.00	-
KAR10	5 227	5 231	0	13.31	2.00	15.31	107.2	0.00	85.37	-	-	0.00	0.00	-
KAR11	4 906	4 909	0	14.17	2.00	16.17	107.2	0.00	84.82	-	-	0.00	0.00	-
KAR12	5 682	5 685	0	12.32	2.00	14.32	107.2	0.00	86.09	-	-	0.00	0.00	-
KAR13	5 246	5 249	0	13.27	2.00	15.27	107.2	0.00	85.40	-	-	0.00	0.00	-
KAR14	6 128	6 131	0	11.41	2.00	13.41	107.2	0.00	86.75	-	-	0.00	0.00	-
KAR15	5 183	5 187	0	13.42	2.00	15.42	107.2	0.00	85.30	-	-	0.00	0.00	-
KAR16	6 351	6 354	0	10.98	2.00	12.98	107.2	0.00	87.06	-	-	0.00	0.00	-
KAR17	6 190	6 193	0	11.29	2.00	13.29	107.2	0.00	86.84	-	-	0.00	0.00	-
KAR18	6 847	6 850	0	10.07	2.00	12.07	107.2	0.00	87.71	-	-	0.00	0.00	-
KAR19	5 910	5 914	0	11.85	2.00	13.85	107.2	0.00	86.44	-	-	0.00	0.00	-
KAR20	6 839	6 842	0	10.08	2.00	12.08	107.2	0.00	87.70	-	-	0.00	0.00	-
KAR21	6 578	6 581	0	10.55	2.00	12.55	107.2	0.00	87.37	-	-	0.00	0.00	-
KAR22	6 602	6 604	0	10.51	2.00	12.51	107.2	0.00	87.40	-	-	0.00	0.00	-
KAR23	7 173	7 176	0	9.50	2.00	11.50	107.2	0.00	88.12	-	-	0.00	0.00	-
KAR24	4 235	4 239	0	16.20	2.00	18.20	107.2	0.00	83.55	-	-	0.00	0.00	-
KAR25	3 187	3 193	0	20.07	2.00	22.07	107.2	0.00	81.08	-	-	0.00	0.00	-
MAA01	2 086	2 091	0	25.63	2.00	27.63	107.2	0.00	77.41	-	-	0.00	0.00	-
MAA03	2 260	2 264	0	24.60	2.00	26.60	107.2	0.00	78.10	-	-	0.00	0.00	-
MAA04	1 675	1 681	0	28.36	2.00	30.36	107.2	0.00	75.51	-	-	0.00	0.00	-
MAA05	2 534	2 538	0	23.12	2.00	25.12	107.2	0.00	79.09	-	-	0.00	0.00	-
MAA06	3 085	3 088	0	20.52	2.00	22.52	107.2	0.00	80.79	-	-	0.00	0.00	-
MAA07	3 269	3 272	0	19.74	2.00	21.74	107.2	0.00	81.30	-	-	0.00	0.00	-
MAA08	3 430	3 433	0	19.09	2.00	21.09	107.2	0.00	81.71	-	-	0.00	0.00	-
RAH01	3 774	3 777	0	19.65	2.00	21.65	106.9	0.00	82.54	-	-	0.00	0.00	-
RAH02	3 735	3 738	0	19.79	2.00	21.79	106.9	0.00	82.45	-	-	0.00	0.00	-
RAH03	3 124	3 128	0	22.02	2.00	24.02	106.9	0.00	80.91	-	-	0.00	0.00	-
RAH04	3 703	3 706	0	19.90	2.00	21.90	106.9	0.00	82.38	-	-	0.00	0.00	-
RAH05	2 899	2 903	0	22.94	2.00	24.94	106.9	0.00	80.26	-	-	0.00	0.00	-
RAH06	3 118	3 121	0	22.04	2.00	24.04	106.9	0.00	80.89	-	-	0.00	0.00	-
RAH07	4 667	4 669	0	16.94	2.00	18.94	106.9	0.00	84.38	-	-	0.00	0.00	-
RAH08	4 822	4 824	0	16.52	2.00	18.52	106.9	0.00	84.67	-	-	0.00	0.00	-
RAH09	4 028	4 030	0	18.83	2.00	20.83	106.9	0.00	83.11	-	-	0.00	0.00	-
RAH10	4 476	4 479	0	17.48	2.00	19.48	106.9	0.00	84.02	-	-	0.00	0.00	-
RAH11	3 478	3 481	0	20.68	2.00	22.68	106.9	0.00	81.83	-	-	0.00	0.00	-
RAH12	4 204	4 207	0	18.28	2.00	20.28	106.9	0.00	83.48	-	-	0.00	0.00	-
RAH13	4 138	4 140	0	18.49	2.00	20.49	106.9	0.00	83.34	-	-	0.00	0.00	-
RAH14	3 490	3 493	0	20.64	2.00	22.64	106.9	0.00	81.86	-	-	0.00	0.00	-
RAH15	4 353	4 356	0	17.84	2.00	19.84	106.9	0.00	83.78	-	-	0.00	0.00	-
RAH16	4 961	4 963	0	16.15	2.00	18.15	106.9	0.00	84.92	-	-	0.00	0.00	-
RAH17	3 423	3 427	0	20.88	2.00	22.88	106.9	0.00	81.70	-	-	0.00	0.00	-
RAH18	4 031	4 035	0	18.82	2.00	20.82	106.9	0.00	83.12	-	-	0.00	0.00	-
RAH19	4 043	4 047	0	18.78	2.00	20.78	106.9	0.00	83.14	-	-	0.00	0.00	-
SIL01	9 970	9 971	0	3.18	2.00	5.18	108.5	0.00	90.98	-	-	0.00	0.00	-
SIL02	9 458	9 460	0	3.90	2.00	5.90	108.5	0.00	90.52	-	-	0.00	0.00	-
SIL03	8 817	8 818	0	4.87	2.00	6.87	108.5	0.00	89.91	-	-	0.00	0.00	-
SIL04	8 829	8 831	0	4.85	2.00	6.85	108.5	0.00	89.92	-	-	0.00	0.00	-
SIL05	9 722	9 724	0	3.52	2.00	5.52	108.5	0.00	90.76	-	-	0.00	0.00	-
SIL06	9 337	9 339	0	4.08	2.00	6.08	108.5	0.00	90.41	-	-	0.00	0.00	-
SIL07	8 779	8 781	0	4.93	2.00	6.93	108.5	0.00	89.87	-	-	0.00	0.00	-
SIL08	9 142	9 143	0	4.37	2.00	6.37	108.5	0.00	90.22	-	-	0.00	0.00	-
Sum						38.40								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AF Noise sensitive point: Finnish normal frequency - User defined (39)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	3 886	3 891	0	17.38	2.00	19.38	107.2	0.00	82.80	-	-	0.00	0.00	-
KAR02	3 547	3 551	0	18.63	2.00	20.63	107.2	0.00	82.01	-	-	0.00	0.00	-
KAR03	4 006	4 010	0	16.96	2.00	18.96	107.2	0.00	83.06	-	-	0.00	0.00	-
KAR04	4 633	4 637	0	14.96	2.00	16.96	107.2	0.00	84.32	-	-	0.00	0.00	-
KAR05	5 252	5 255	0	13.26	2.00	15.26	107.2	0.00	85.41	-	-	0.00	0.00	-
KAR06	4 471	4 475	0	15.45	2.00	17.45	107.2	0.00	84.02	-	-	0.00	0.00	-
KAR07	4 219	4 223	0	16.25	2.00	18.25	107.2	0.00	83.51	-	-	0.00	0.00	-
KAR08	4 171	4 175	0	16.41	2.00	18.41	107.2	0.00	83.41	-	-	0.00	0.00	-
KAR09	5 657	5 661	0	12.37	2.00	14.37	107.2	0.00	86.06	-	-	0.00	0.00	-
KAR10	5 259	5 263	0	13.24	2.00	15.24	107.2	0.00	85.42	-	-	0.00	0.00	-
KAR11	4 910	4 913	0	14.16	2.00	16.16	107.2	0.00	84.83	-	-	0.00	0.00	-
KAR12	5 701	5 704	0	12.28	2.00	14.28	107.2	0.00	86.12	-	-	0.00	0.00	-
KAR13	5 238	5 242	0	13.29	2.00	15.29	107.2	0.00	85.39	-	-	0.00	0.00	-
KAR14	6 156	6 159	0	11.36	2.00	13.36	107.2	0.00	86.79	-	-	0.00	0.00	-
KAR15	5 160	5 163	0	13.47	2.00	15.47	107.2	0.00	85.26	-	-	0.00	0.00	-
KAR16	6 366	6 369	0	10.95	2.00	12.95	107.2	0.00	87.08	-	-	0.00	0.00	-
KAR17	6 190	6 193	0	11.29	2.00	13.29	107.2	0.00	86.84	-	-	0.00	0.00	-
KAR18	6 872	6 875	0	10.02	2.00	12.02	107.2	0.00	87.75	-	-	0.00	0.00	-
KAR19	5 879	5 882	0	11.91	2.00	13.91	107.2	0.00	86.39	-	-	0.00	0.00	-
KAR20	6 844	6 847	0	10.07	2.00	12.07	107.2	0.00	87.71	-	-	0.00	0.00	-
KAR21	6 568	6 571	0	10.57	2.00	12.57	107.2	0.00	87.35	-	-	0.00	0.00	-
KAR22	6 579	6 582	0	10.55	2.00	12.55	107.2	0.00	87.37	-	-	0.00	0.00	-
KAR23	7 155	7 157	0	9.53	2.00	11.53	107.2	0.00	88.10	-	-	0.00	0.00	-
KAR24	4 306	4 310	0	15.97	2.00	17.97	107.2	0.00	83.69	-	-	0.00	0.00	-
KAR25	3 225	3 231	0	19.91	2.00	21.91	107.2	0.00	81.19	-	-	0.00	0.00	-
MAA01	2 123	2 128	0	25.40	2.00	27.40	107.2	0.00	77.56	-	-	0.00	0.00	-
MAA03	2 253	2 258	0	24.64	2.00	26.64	107.2	0.00	78.07	-	-	0.00	0.00	-
MAA04	1 600	1 607	0	28.91	2.00	30.91	107.2	0.00	75.12	-	-	0.00	0.00	-
MAA05	2 491	2 495	0	23.34	2.00	25.34	107.2	0.00	78.94	-	-	0.00	0.00	-
MAA06	2 999	3 002	0	20.90	2.00	22.90	107.2	0.00	80.55	-	-	0.00	0.00	-
MAA07	3 164	3 167	0	20.18	2.00	22.18	107.2	0.00	81.01	-	-	0.00	0.00	-
MAA08	3 315	3 318	0	19.55	2.00	21.55	107.2	0.00	81.42	-	-	0.00	0.00	-
RAH01	3 828	3 831	0	19.48	2.00	21.48	106.9	0.00	82.67	-	-	0.00	0.00	-
RAH02	3 761	3 764	0	19.70	2.00	21.70	106.9	0.00	82.51	-	-	0.00	0.00	-
RAH03	3 170	3 174	0	21.84	2.00	23.84	106.9	0.00	81.03	-	-	0.00	0.00	-
RAH04	3 705	3 708	0	19.89	2.00	21.89	106.9	0.00	82.38	-	-	0.00	0.00	-
RAH05	2 905	2 909	0	22.91	2.00	24.91	106.9	0.00	80.28	-	-	0.00	0.00	-
RAH06	3 093	3 097	0	22.14	2.00	24.14	106.9	0.00	80.82	-	-	0.00	0.00	-
RAH07	4 620	4 622	0	17.07	2.00	19.07	106.9	0.00	84.30	-	-	0.00	0.00	-
RAH08	4 794	4 796	0	16.59	2.00	18.59	106.9	0.00	84.62	-	-	0.00	0.00	-
RAH09	3 997	4 000	0	18.93	2.00	20.93	106.9	0.00	83.04	-	-	0.00	0.00	-
RAH10	4 467	4 470	0	17.50	2.00	19.50	106.9	0.00	84.01	-	-	0.00	0.00	-
RAH11	3 558	3 561	0	20.40	2.00	22.40	106.9	0.00	82.03	-	-	0.00	0.00	-
RAH12	4 286	4 289	0	18.04	2.00	20.04	106.9	0.00	83.65	-	-	0.00	0.00	-
RAH13	4 238	4 241	0	18.18	2.00	20.18	106.9	0.00	83.55	-	-	0.00	0.00	-
RAH14	3 593	3 596	0	20.27	2.00	22.27	106.9	0.00	82.12	-	-	0.00	0.00	-
RAH15	4 470	4 473	0	17.49	2.00	19.49	106.9	0.00	84.01	-	-	0.00	0.00	-
RAH16	5 069	5 072	0	15.87	2.00	17.87	106.9	0.00	85.10	-	-	0.00	0.00	-
RAH17	3 550	3 554	0	20.42	2.00	22.42	106.9	0.00	82.01	-	-	0.00	0.00	-
RAH18	4 156	4 160	0	18.43	2.00	20.43	106.9	0.00	83.38	-	-	0.00	0.00	-
RAH19	4 172	4 175	0	18.38	2.00	20.38	106.9	0.00	83.41	-	-	0.00	0.00	-
SIL01	10 098	10 099	0	3.00	2.00	5.00	108.5	0.00	91.09	-	-	0.00	0.00	-
SIL02	9 586	9 588	0	3.72	2.00	5.72	108.5	0.00	90.63	-	-	0.00	0.00	-
SIL03	8 944	8 945	0	4.67	2.00	6.67	108.5	0.00	90.03	-	-	0.00	0.00	-
SIL04	8 957	8 959	0	4.65	2.00	6.65	108.5	0.00	90.05	-	-	0.00	0.00	-
SIL05	9 850	9 851	0	3.35	2.00	5.35	108.5	0.00	90.87	-	-	0.00	0.00	-
SIL06	9 466	9 467	0	3.89	2.00	5.89	108.5	0.00	90.52	-	-	0.00	0.00	-
SIL07	8 907	8 909	0	4.73	2.00	6.73	108.5	0.00	90.00	-	-	0.00	0.00	-
SIL08	9 269	9 270	0	4.18	2.00	6.18	108.5	0.00	90.34	-	-	0.00	0.00	-
Sum						38.44								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AG Noise sensitive point: Finnish normal frequency - User defined (11)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	7 798	7 800	0	8.49	2.00	10.49	107.2	0.00	88.84	-	-	0.00	0.00	-
KAR02	6 969	6 971	0	9.86	2.00	11.86	107.2	0.00	87.87	-	-	0.00	0.00	-
KAR03	7 614	7 616	0	8.78	2.00	10.78	107.2	0.00	88.63	-	-	0.00	0.00	-
KAR04	8 333	8 335	0	7.68	2.00	9.68	107.2	0.00	89.42	-	-	0.00	0.00	-
KAR05	9 040	9 043	0	6.68	2.00	8.68	107.2	0.00	90.13	-	-	0.00	0.00	-
KAR06	7 764	7 766	0	8.54	2.00	10.54	107.2	0.00	88.80	-	-	0.00	0.00	-
KAR07	7 122	7 125	0	9.59	2.00	11.59	107.2	0.00	88.06	-	-	0.00	0.00	-
KAR08	6 564	6 567	0	10.58	2.00	12.58	107.2	0.00	87.35	-	-	0.00	0.00	-
KAR09	9 241	9 244	0	6.41	2.00	8.41	107.2	0.00	90.32	-	-	0.00	0.00	-
KAR10	8 656	8 659	0	7.21	2.00	9.21	107.2	0.00	89.75	-	-	0.00	0.00	-
KAR11	7 820	7 823	0	8.45	2.00	10.45	107.2	0.00	88.87	-	-	0.00	0.00	-
KAR12	8 803	8 805	0	7.01	2.00	9.01	107.2	0.00	89.89	-	-	0.00	0.00	-
KAR13	7 840	7 842	0	8.42	2.00	10.42	107.2	0.00	88.89	-	-	0.00	0.00	-
KAR14	9 398	9 400	0	6.21	2.00	8.21	107.2	0.00	90.46	-	-	0.00	0.00	-
KAR15	7 404	7 407	0	9.12	2.00	11.12	107.2	0.00	88.39	-	-	0.00	0.00	-
KAR16	9 305	9 307	0	6.33	2.00	8.33	107.2	0.00	90.38	-	-	0.00	0.00	-
KAR17	8 839	8 841	0	6.96	2.00	8.96	107.2	0.00	89.93	-	-	0.00	0.00	-
KAR18	9 990	9 993	0	5.46	2.00	7.46	107.2	0.00	90.99	-	-	0.00	0.00	-
KAR19	7 787	7 789	0	8.50	2.00	10.50	107.2	0.00	88.83	-	-	0.00	0.00	-
KAR20	9 516	9 518	0	6.06	2.00	8.06	107.2	0.00	90.57	-	-	0.00	0.00	-
KAR21	8 905	8 907	0	6.87	2.00	8.87	107.2	0.00	89.99	-	-	0.00	0.00	-
KAR22	8 611	8 614	0	7.28	2.00	9.28	107.2	0.00	89.70	-	-	0.00	0.00	-
KAR23	9 203	9 206	0	6.46	2.00	8.46	107.2	0.00	90.28	-	-	0.00	0.00	-
KAR24	8 374	8 377	0	7.62	2.00	9.62	107.2	0.00	89.46	-	-	0.00	0.00	-
KAR25	6 962	6 965	0	9.87	2.00	11.87	107.2	0.00	87.86	-	-	0.00	0.00	-
MAA01	4 916	4 918	0	14.29	2.00	16.29	107.2	0.00	84.84	-	-	0.00	0.00	-
MAA03	4 229	4 232	0	16.22	2.00	18.22	107.2	0.00	83.53	-	-	0.00	0.00	-
MAA04	3 337	3 340	0	19.46	2.00	21.46	107.2	0.00	81.48	-	-	0.00	0.00	-
MAA05	3 547	3 550	0	18.63	2.00	20.63	107.2	0.00	82.01	-	-	0.00	0.00	-
MAA06	2 344	2 348	0	24.13	2.00	26.13	107.2	0.00	78.41	-	-	0.00	0.00	-
MAA07	1 684	1 691	0	28.28	2.00	30.28	107.2	0.00	75.56	-	-	0.00	0.00	-
MAA08	1 261	1 270	0	31.73	2.00	33.73	107.2	0.00	73.07	-	-	0.00	0.00	-
RAH01	6 178	6 181	0	13.62	2.00	15.62	106.9	0.00	86.82	-	-	0.00	0.00	-
RAH02	5 483	5 485	0	14.98	2.00	16.98	106.9	0.00	85.78	-	-	0.00	0.00	-
RAH03	5 588	5 590	0	14.77	2.00	16.77	106.9	0.00	85.95	-	-	0.00	0.00	-
RAH04	4 865	4 868	0	16.40	2.00	18.40	106.9	0.00	84.75	-	-	0.00	0.00	-
RAH05	4 636	4 638	0	17.03	2.00	19.03	106.9	0.00	84.33	-	-	0.00	0.00	-
RAH06	3 995	3 998	0	18.93	2.00	20.93	106.9	0.00	83.04	-	-	0.00	0.00	-
RAH07	3 799	3 802	0	19.57	2.00	21.57	106.9	0.00	82.60	-	-	0.00	0.00	-
RAH08	4 531	4 534	0	17.32	2.00	19.32	106.9	0.00	84.13	-	-	0.00	0.00	-
RAH09	4 095	4 098	0	18.62	2.00	20.62	106.9	0.00	83.25	-	-	0.00	0.00	-
RAH10	4 938	4 940	0	16.21	2.00	18.21	106.9	0.00	84.87	-	-	0.00	0.00	-
RAH11	6 601	6 603	0	12.86	2.00	14.86	106.9	0.00	87.39	-	-	0.00	0.00	-
RAH12	7 214	7 216	0	11.81	2.00	13.81	106.9	0.00	88.17	-	-	0.00	0.00	-
RAH13	7 656	7 657	0	11.11	2.00	13.11	106.9	0.00	88.68	-	-	0.00	0.00	-
RAH14	7 156	7 158	0	11.91	2.00	13.91	106.9	0.00	88.10	-	-	0.00	0.00	-
RAH15	8 327	8 329	0	10.10	2.00	12.10	106.9	0.00	89.41	-	-	0.00	0.00	-
RAH16	8 597	8 599	0	9.72	2.00	11.72	106.9	0.00	89.69	-	-	0.00	0.00	-
RAH17	7 803	7 805	0	10.88	2.00	12.88	106.9	0.00	88.85	-	-	0.00	0.00	-
RAH18	8 288	8 290	0	10.16	2.00	12.16	106.9	0.00	89.37	-	-	0.00	0.00	-
RAH19	8 539	8 541	0	9.80	2.00	11.80	106.9	0.00	89.63	-	-	0.00	0.00	-
SIL01	14 383	14 384	0	-1.76	2.00	0.24	108.5	0.00	94.16	-	-	0.00	0.00	-
SIL02	13 944	13 945	0	-1.35	2.00	0.65	108.5	0.00	93.89	-	-	0.00	0.00	-
SIL03	13 347	13 348	0	-0.76	2.00	1.24	108.5	0.00	93.51	-	-	0.00	0.00	-
SIL04	13 302	13 303	0	-0.72	2.00	1.28	108.5	0.00	93.48	-	-	0.00	0.00	-
SIL05	14 062	14 063	0	-1.46	2.00	0.54	108.5	0.00	93.96	-	-	0.00	0.00	-
SIL06	13 747	13 748	0	-1.16	2.00	0.84	108.5	0.00	93.76	-	-	0.00	0.00	-
SIL07	13 170	13 171	0	-0.59	2.00	1.41	108.5	0.00	93.39	-	-	0.00	0.00	-
SIL08	13 452	13 453	0	-0.87	2.00	1.13	108.5	0.00	93.58	-	-	0.00	0.00	-
Sum						37.37								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AH Noise sensitive point: Finnish normal frequency - User defined (18)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	2 214	2 221	0	24.85	2.00	26.85	107.2	0.00	77.93	-	-	0.00	0.00	-
KAR02	2 948	2 953	0	21.12	2.00	23.12	107.2	0.00	80.41	-	-	0.00	0.00	-
KAR03	2 822	2 828	0	21.70	2.00	23.70	107.2	0.00	80.03	-	-	0.00	0.00	-
KAR04	2 998	3 004	0	20.89	2.00	22.89	107.2	0.00	80.55	-	-	0.00	0.00	-
KAR05	3 267	3 272	0	19.74	2.00	21.74	107.2	0.00	81.30	-	-	0.00	0.00	-
KAR06	3 527	3 531	0	18.70	2.00	20.70	107.2	0.00	81.96	-	-	0.00	0.00	-
KAR07	3 902	3 905	0	17.33	2.00	19.33	107.2	0.00	82.83	-	-	0.00	0.00	-
KAR08	4 435	4 438	0	15.57	2.00	17.57	107.2	0.00	83.94	-	-	0.00	0.00	-
KAR09	3 880	3 884	0	17.40	2.00	19.40	107.2	0.00	82.79	-	-	0.00	0.00	-
KAR10	3 860	3 864	0	17.47	2.00	19.47	107.2	0.00	82.74	-	-	0.00	0.00	-
KAR11	4 264	4 268	0	16.11	2.00	18.11	107.2	0.00	83.60	-	-	0.00	0.00	-
KAR12	4 550	4 554	0	15.21	2.00	17.21	107.2	0.00	84.17	-	-	0.00	0.00	-
KAR13	4 815	4 819	0	14.43	2.00	16.43	107.2	0.00	84.66	-	-	0.00	0.00	-
KAR14	4 713	4 716	0	14.72	2.00	16.72	107.2	0.00	84.47	-	-	0.00	0.00	-
KAR15	5 130	5 133	0	13.55	2.00	15.55	107.2	0.00	85.21	-	-	0.00	0.00	-
KAR16	5 233	5 236	0	13.30	2.00	15.30	107.2	0.00	85.38	-	-	0.00	0.00	-
KAR17	5 421	5 424	0	12.88	2.00	14.88	107.2	0.00	85.69	-	-	0.00	0.00	-
KAR18	5 426	5 429	0	12.87	2.00	14.87	107.2	0.00	85.70	-	-	0.00	0.00	-
KAR19	5 920	5 923	0	11.83	2.00	13.83	107.2	0.00	86.45	-	-	0.00	0.00	-
KAR20	5 894	5 897	0	11.88	2.00	13.88	107.2	0.00	86.41	-	-	0.00	0.00	-
KAR21	6 020	6 023	0	11.63	2.00	13.63	107.2	0.00	86.60	-	-	0.00	0.00	-
KAR22	6 317	6 319	0	11.05	2.00	13.05	107.2	0.00	87.01	-	-	0.00	0.00	-
KAR23	6 747	6 749	0	10.25	2.00	12.25	107.2	0.00	87.59	-	-	0.00	0.00	-
KAR24	2 101	2 108	0	25.52	2.00	27.52	107.2	0.00	77.48	-	-	0.00	0.00	-
KAR25	2 358	2 364	0	24.05	2.00	26.05	107.2	0.00	78.47	-	-	0.00	0.00	-
MAA01	4 061	4 063	0	16.78	2.00	18.78	107.2	0.00	83.18	-	-	0.00	0.00	-
MAA03	4 665	4 667	0	14.92	2.00	16.92	107.2	0.00	84.38	-	-	0.00	0.00	-
MAA04	4 598	4 599	0	15.09	2.00	17.09	107.2	0.00	84.25	-	-	0.00	0.00	-
MAA05	5 215	5 217	0	13.58	2.00	15.58	107.2	0.00	85.35	-	-	0.00	0.00	-
MAA06	6 027	6 028	0	11.82	2.00	13.82	107.2	0.00	86.60	-	-	0.00	0.00	-
MAA07	6 274	6 276	0	11.33	2.00	13.33	107.2	0.00	86.95	-	-	0.00	0.00	-
MAA08	6 439	6 441	0	11.01	2.00	13.01	107.2	0.00	87.18	-	-	0.00	0.00	-
RAH01	5 047	5 049	0	15.92	2.00	17.92	106.9	0.00	85.06	-	-	0.00	0.00	-
RAH02	5 489	5 491	0	14.97	2.00	16.97	106.9	0.00	85.79	-	-	0.00	0.00	-
RAH03	4 682	4 684	0	16.90	2.00	18.90	106.9	0.00	84.41	-	-	0.00	0.00	-
RAH04	5 801	5 803	0	14.34	2.00	16.34	106.9	0.00	86.27	-	-	0.00	0.00	-
RAH05	5 057	5 059	0	15.90	2.00	17.90	106.9	0.00	85.08	-	-	0.00	0.00	-
RAH06	5 585	5 587	0	14.77	2.00	16.77	106.9	0.00	85.94	-	-	0.00	0.00	-
RAH07	7 270	7 272	0	11.72	2.00	13.72	106.9	0.00	88.23	-	-	0.00	0.00	-
RAH08	7 207	7 208	0	11.83	2.00	13.83	106.9	0.00	88.16	-	-	0.00	0.00	-
RAH09	6 486	6 488	0	13.06	2.00	15.06	106.9	0.00	87.24	-	-	0.00	0.00	-
RAH10	6 649	6 650	0	12.77	2.00	14.77	106.9	0.00	87.46	-	-	0.00	0.00	-
RAH11	4 240	4 243	0	18.17	2.00	20.17	106.9	0.00	83.55	-	-	0.00	0.00	-
RAH12	4 731	4 733	0	16.77	2.00	18.77	106.9	0.00	84.50	-	-	0.00	0.00	-
RAH13	4 096	4 098	0	18.62	2.00	20.62	106.9	0.00	83.25	-	-	0.00	0.00	-
RAH14	3 577	3 580	0	20.33	2.00	22.33	106.9	0.00	82.08	-	-	0.00	0.00	-
RAH15	3 513	3 516	0	20.56	2.00	22.56	106.9	0.00	81.92	-	-	0.00	0.00	-
RAH16	4 435	4 437	0	17.60	2.00	19.60	106.9	0.00	83.94	-	-	0.00	0.00	-
RAH17	2 109	2 115	0	26.74	2.00	28.74	106.9	0.00	77.50	-	-	0.00	0.00	-
RAH18	2 738	2 743	0	23.63	2.00	25.63	106.9	0.00	79.76	-	-	0.00	0.00	-
RAH19	2 001	2 008	0	27.34	2.00	29.34	106.9	0.00	77.05	-	-	0.00	0.00	-
SIL01	7 517	7 518	0	7.10	2.00	9.10	108.5	0.00	88.52	-	-	0.00	0.00	-
SIL02	6 881	6 882	0	8.35	2.00	10.35	108.5	0.00	87.75	-	-	0.00	0.00	-
SIL03	6 157	6 159	0	9.92	2.00	11.92	108.5	0.00	86.79	-	-	0.00	0.00	-
SIL04	6 300	6 301	0	9.60	2.00	11.60	108.5	0.00	86.99	-	-	0.00	0.00	-
SIL05	7 407	7 408	0	7.31	2.00	9.31	108.5	0.00	88.39	-	-	0.00	0.00	-
SIL06	6 914	6 916	0	8.28	2.00	10.28	108.5	0.00	87.80	-	-	0.00	0.00	-
SIL07	6 414	6 415	0	9.34	2.00	11.34	108.5	0.00	87.14	-	-	0.00	0.00	-
SIL08	6 903	6 904	0	8.30	2.00	10.30	108.5	0.00	87.78	-	-	0.00	0.00	-
Sum						38.23								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AI Noise sensitive point: Finnish normal frequency - User defined (52)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	5 239	5 243	0	13.29	2.00	15.29	107.2	0.00	85.39	-	-	0.00	0.00	-
KAR02	4 521	4 525	0	15.30	2.00	17.30	107.2	0.00	84.11	-	-	0.00	0.00	-
KAR03	5 131	5 135	0	13.55	2.00	15.55	107.2	0.00	85.21	-	-	0.00	0.00	-
KAR04	5 838	5 842	0	11.99	2.00	13.99	107.2	0.00	86.33	-	-	0.00	0.00	-
KAR05	6 531	6 534	0	10.64	2.00	12.64	107.2	0.00	87.30	-	-	0.00	0.00	-
KAR06	5 384	5 388	0	12.96	2.00	14.96	107.2	0.00	85.63	-	-	0.00	0.00	-
KAR07	4 857	4 861	0	14.31	2.00	16.31	107.2	0.00	84.73	-	-	0.00	0.00	-
KAR08	4 471	4 475	0	15.45	2.00	17.45	107.2	0.00	84.02	-	-	0.00	0.00	-
KAR09	6 798	6 801	0	10.16	2.00	12.16	107.2	0.00	87.65	-	-	0.00	0.00	-
KAR10	6 265	6 268	0	11.15	2.00	13.15	107.2	0.00	86.94	-	-	0.00	0.00	-
KAR11	5 582	5 586	0	12.53	2.00	14.53	107.2	0.00	85.94	-	-	0.00	0.00	-
KAR12	6 522	6 525	0	10.66	2.00	12.66	107.2	0.00	87.29	-	-	0.00	0.00	-
KAR13	5 728	5 731	0	12.22	2.00	14.22	107.2	0.00	86.16	-	-	0.00	0.00	-
KAR14	7 077	7 080	0	9.67	2.00	11.67	107.2	0.00	88.00	-	-	0.00	0.00	-
KAR15	5 427	5 431	0	12.87	2.00	14.87	107.2	0.00	85.70	-	-	0.00	0.00	-
KAR16	7 100	7 103	0	9.63	2.00	11.63	107.2	0.00	88.03	-	-	0.00	0.00	-
KAR17	6 743	6 745	0	10.26	2.00	12.26	107.2	0.00	87.58	-	-	0.00	0.00	-
KAR18	7 729	7 731	0	8.59	2.00	10.59	107.2	0.00	88.77	-	-	0.00	0.00	-
KAR19	5 987	5 990	0	11.69	2.00	13.69	107.2	0.00	86.55	-	-	0.00	0.00	-
KAR20	7 428	7 431	0	9.08	2.00	11.08	107.2	0.00	88.42	-	-	0.00	0.00	-
KAR21	6 948	6 951	0	9.89	2.00	11.89	107.2	0.00	87.84	-	-	0.00	0.00	-
KAR22	6 786	6 789	0	10.18	2.00	12.18	107.2	0.00	87.64	-	-	0.00	0.00	-
KAR23	7 391	7 393	0	9.14	2.00	11.14	107.2	0.00	88.38	-	-	0.00	0.00	-
KAR24	5 789	5 792	0	12.10	2.00	14.10	107.2	0.00	86.26	-	-	0.00	0.00	-
KAR25	4 429	4 433	0	15.58	2.00	17.58	107.2	0.00	83.93	-	-	0.00	0.00	-
MAA01	3 152	3 155	0	20.23	2.00	22.23	107.2	0.00	80.98	-	-	0.00	0.00	-
MAA03	2 753	2 757	0	22.03	2.00	24.03	107.2	0.00	79.81	-	-	0.00	0.00	-
MAA04	1 509	1 516	0	29.62	2.00	31.62	107.2	0.00	74.62	-	-	0.00	0.00	-
MAA05	2 422	2 426	0	23.71	2.00	25.71	107.2	0.00	78.70	-	-	0.00	0.00	-
MAA06	2 003	2 008	0	26.14	2.00	28.14	107.2	0.00	77.06	-	-	0.00	0.00	-
MAA07	1 728	1 734	0	27.97	2.00	29.97	107.2	0.00	75.78	-	-	0.00	0.00	-
MAA08	1 617	1 624	0	28.78	2.00	30.78	107.2	0.00	75.21	-	-	0.00	0.00	-
RAH01	4 813	4 816	0	16.54	2.00	18.54	106.9	0.00	84.65	-	-	0.00	0.00	-
RAH02	4 401	4 404	0	17.70	2.00	19.70	106.9	0.00	83.88	-	-	0.00	0.00	-
RAH03	4 125	4 128	0	18.52	2.00	20.52	106.9	0.00	83.32	-	-	0.00	0.00	-
RAH04	4 031	4 034	0	18.82	2.00	20.82	106.9	0.00	83.11	-	-	0.00	0.00	-
RAH05	3 412	3 416	0	20.92	2.00	22.92	106.9	0.00	81.67	-	-	0.00	0.00	-
RAH06	3 140	3 144	0	21.95	2.00	23.95	106.9	0.00	80.95	-	-	0.00	0.00	-
RAH07	4 086	4 089	0	18.65	2.00	20.65	106.9	0.00	83.23	-	-	0.00	0.00	-
RAH08	4 553	4 556	0	17.26	2.00	19.26	106.9	0.00	84.17	-	-	0.00	0.00	-
RAH09	3 805	3 809	0	19.55	2.00	21.55	106.9	0.00	82.62	-	-	0.00	0.00	-
RAH10	4 543	4 546	0	17.29	2.00	19.29	106.9	0.00	84.15	-	-	0.00	0.00	-
RAH11	4 890	4 892	0	16.33	2.00	18.33	106.9	0.00	84.79	-	-	0.00	0.00	-
RAH12	5 600	5 602	0	14.74	2.00	16.74	106.9	0.00	85.97	-	-	0.00	0.00	-
RAH13	5 790	5 793	0	14.36	2.00	16.36	106.9	0.00	86.26	-	-	0.00	0.00	-
RAH14	5 193	5 195	0	15.59	2.00	17.59	106.9	0.00	85.31	-	-	0.00	0.00	-
RAH15	6 229	6 232	0	13.53	2.00	15.53	106.9	0.00	86.89	-	-	0.00	0.00	-
RAH16	6 696	6 697	0	12.69	2.00	14.69	106.9	0.00	87.52	-	-	0.00	0.00	-
RAH17	5 455	5 458	0	15.04	2.00	17.04	106.9	0.00	85.74	-	-	0.00	0.00	-
RAH18	6 023	6 026	0	13.91	2.00	15.91	106.9	0.00	86.60	-	-	0.00	0.00	-
RAH19	6 113	6 116	0	13.74	2.00	15.74	106.9	0.00	86.73	-	-	0.00	0.00	-
SIL01	12 032	12 033	0	0.63	2.00	2.63	108.5	0.00	92.61	-	-	0.00	0.00	-
SIL02	11 532	11 533	0	1.20	2.00	3.20	108.5	0.00	92.24	-	-	0.00	0.00	-
SIL03	10 894	10 895	0	1.97	2.00	3.97	108.5	0.00	91.74	-	-	0.00	0.00	-
SIL04	10 901	10 902	0	1.96	2.00	3.96	108.5	0.00	91.75	-	-	0.00	0.00	-
SIL05	11 767	11 768	0	0.93	2.00	2.93	108.5	0.00	92.41	-	-	0.00	0.00	-
SIL06	11 398	11 399	0	1.36	2.00	3.36	108.5	0.00	92.14	-	-	0.00	0.00	-
SIL07	10 835	10 836	0	2.04	2.00	4.04	108.5	0.00	91.70	-	-	0.00	0.00	-
SIL08	11 177	11 178	0	1.62	2.00	3.62	108.5	0.00	91.97	-	-	0.00	0.00	-
Sum						38.72								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AJ Noise sensitive point: Finnish normal frequency - User defined (19)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	2 015	2 023	0	26.05	2.00	28.05	107.2	0.00	77.12	-	-	0.00	0.00	-
KAR02	2 628	2 634	0	22.64	2.00	24.64	107.2	0.00	79.41	-	-	0.00	0.00	-
KAR03	2 572	2 578	0	22.92	2.00	24.92	107.2	0.00	79.23	-	-	0.00	0.00	-
KAR04	2 833	2 839	0	21.64	2.00	23.64	107.2	0.00	80.06	-	-	0.00	0.00	-
KAR05	3 184	3 189	0	20.08	2.00	22.08	107.2	0.00	81.07	-	-	0.00	0.00	-
KAR06	3 271	3 276	0	19.72	2.00	21.72	107.2	0.00	81.31	-	-	0.00	0.00	-
KAR07	3 585	3 590	0	18.48	2.00	20.48	107.2	0.00	82.10	-	-	0.00	0.00	-
KAR08	4 082	4 085	0	16.71	2.00	18.71	107.2	0.00	83.22	-	-	0.00	0.00	-
KAR09	3 770	3 775	0	17.79	2.00	19.79	107.2	0.00	82.54	-	-	0.00	0.00	-
KAR10	3 682	3 687	0	18.12	2.00	20.12	107.2	0.00	82.33	-	-	0.00	0.00	-
KAR11	3 992	3 996	0	17.01	2.00	19.01	107.2	0.00	83.03	-	-	0.00	0.00	-
KAR12	4 350	4 354	0	15.83	2.00	17.83	107.2	0.00	83.78	-	-	0.00	0.00	-
KAR13	4 529	4 533	0	15.27	2.00	17.27	107.2	0.00	84.13	-	-	0.00	0.00	-
KAR14	4 561	4 565	0	15.18	2.00	17.18	107.2	0.00	84.19	-	-	0.00	0.00	-
KAR15	4 811	4 814	0	14.44	2.00	16.44	107.2	0.00	84.65	-	-	0.00	0.00	-
KAR16	5 042	5 046	0	13.79	2.00	15.79	107.2	0.00	85.06	-	-	0.00	0.00	-
KAR17	5 185	5 188	0	13.41	2.00	15.41	107.2	0.00	85.30	-	-	0.00	0.00	-
KAR18	5 286	5 290	0	13.18	2.00	15.18	107.2	0.00	85.47	-	-	0.00	0.00	-
KAR19	5 606	5 609	0	12.48	2.00	14.48	107.2	0.00	85.98	-	-	0.00	0.00	-
KAR20	5 687	5 690	0	12.31	2.00	14.31	107.2	0.00	86.10	-	-	0.00	0.00	-
KAR21	5 766	5 769	0	12.15	2.00	14.15	107.2	0.00	86.22	-	-	0.00	0.00	-
KAR22	6 035	6 038	0	11.60	2.00	13.60	107.2	0.00	86.62	-	-	0.00	0.00	-
KAR23	6 485	6 488	0	10.73	2.00	12.73	107.2	0.00	87.24	-	-	0.00	0.00	-
KAR24	2 024	2 031	0	25.99	2.00	27.99	107.2	0.00	77.16	-	-	0.00	0.00	-
KAR25	2 036	2 044	0	25.92	2.00	27.92	107.2	0.00	77.21	-	-	0.00	0.00	-
MAA01	3 919	3 921	0	17.27	2.00	19.27	107.2	0.00	82.87	-	-	0.00	0.00	-
MAA03	4 480	4 482	0	15.43	2.00	17.43	107.2	0.00	84.03	-	-	0.00	0.00	-
MAA04	4 321	4 323	0	15.93	2.00	17.93	107.2	0.00	83.72	-	-	0.00	0.00	-
MAA05	4 994	4 996	0	14.10	2.00	16.10	107.2	0.00	84.97	-	-	0.00	0.00	-
MAA06	5 751	5 752	0	12.40	2.00	14.40	107.2	0.00	86.20	-	-	0.00	0.00	-
MAA07	5 967	5 968	0	11.94	2.00	13.94	107.2	0.00	86.52	-	-	0.00	0.00	-
MAA08	6 111	6 112	0	11.65	2.00	13.65	107.2	0.00	86.72	-	-	0.00	0.00	-
RAH01	5 029	5 031	0	15.97	2.00	17.97	106.9	0.00	85.03	-	-	0.00	0.00	-
RAH02	5 414	5 415	0	15.12	2.00	17.12	106.9	0.00	85.67	-	-	0.00	0.00	-
RAH03	4 615	4 618	0	17.08	2.00	19.08	106.9	0.00	84.29	-	-	0.00	0.00	-
RAH04	5 681	5 682	0	14.58	2.00	16.58	106.9	0.00	86.09	-	-	0.00	0.00	-
RAH05	4 916	4 918	0	16.27	2.00	18.27	106.9	0.00	84.84	-	-	0.00	0.00	-
RAH06	5 405	5 407	0	15.14	2.00	17.14	106.9	0.00	85.66	-	-	0.00	0.00	-
RAH07	7 079	7 080	0	12.04	2.00	14.04	106.9	0.00	88.00	-	-	0.00	0.00	-
RAH08	7 055	7 056	0	12.08	2.00	14.08	106.9	0.00	87.97	-	-	0.00	0.00	-
RAH09	6 316	6 318	0	13.37	2.00	15.37	106.9	0.00	87.01	-	-	0.00	0.00	-
RAH10	6 527	6 528	0	12.99	2.00	14.99	106.9	0.00	87.30	-	-	0.00	0.00	-
RAH11	4 268	4 270	0	18.09	2.00	20.09	106.9	0.00	83.61	-	-	0.00	0.00	-
RAH12	4 805	4 807	0	16.56	2.00	18.56	106.9	0.00	84.64	-	-	0.00	0.00	-
RAH13	4 228	4 230	0	18.21	2.00	20.21	106.9	0.00	83.53	-	-	0.00	0.00	-
RAH14	3 672	3 675	0	20.00	2.00	22.00	106.9	0.00	82.30	-	-	0.00	0.00	-
RAH15	3 735	3 738	0	19.79	2.00	21.79	106.9	0.00	82.45	-	-	0.00	0.00	-
RAH16	4 640	4 642	0	17.02	2.00	19.02	106.9	0.00	84.33	-	-	0.00	0.00	-
RAH17	2 332	2 338	0	25.55	2.00	27.55	106.9	0.00	78.38	-	-	0.00	0.00	-
RAH18	2 994	2 999	0	22.54	2.00	24.54	106.9	0.00	80.54	-	-	0.00	0.00	-
RAH19	2 338	2 344	0	25.52	2.00	27.52	106.9	0.00	78.40	-	-	0.00	0.00	-
SIL01	7 922	7 924	0	6.36	2.00	8.36	108.5	0.00	88.98	-	-	0.00	0.00	-
SIL02	7 288	7 289	0	7.54	2.00	9.54	108.5	0.00	88.25	-	-	0.00	0.00	-
SIL03	6 563	6 565	0	9.02	2.00	11.02	108.5	0.00	87.34	-	-	0.00	0.00	-
SIL04	6 706	6 708	0	8.71	2.00	10.71	108.5	0.00	87.53	-	-	0.00	0.00	-
SIL05	7 808	7 809	0	6.57	2.00	8.57	108.5	0.00	88.85	-	-	0.00	0.00	-
SIL06	7 319	7 320	0	7.48	2.00	9.48	108.5	0.00	88.29	-	-	0.00	0.00	-
SIL07	6 816	6 818	0	8.48	2.00	10.48	108.5	0.00	87.67	-	-	0.00	0.00	-
SIL08	7 300	7 302	0	7.51	2.00	9.51	108.5	0.00	88.27	-	-	0.00	0.00	-
Sum						38.38								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AK Noise sensitive point: Finnish normal frequency - User defined (9)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	6 596	6 599	0	10.52	2.00	12.52	107.2	0.00	87.39	-	-	0.00	0.00	-
KAR02	5 743	5 746	0	12.19	2.00	14.19	107.2	0.00	86.19	-	-	0.00	0.00	-
KAR03	6 392	6 395	0	10.90	2.00	12.90	107.2	0.00	87.12	-	-	0.00	0.00	-
KAR04	7 111	7 114	0	9.61	2.00	11.61	107.2	0.00	88.04	-	-	0.00	0.00	-
KAR05	7 821	7 824	0	8.45	2.00	10.45	107.2	0.00	88.87	-	-	0.00	0.00	-
KAR06	6 532	6 535	0	10.64	2.00	12.64	107.2	0.00	87.30	-	-	0.00	0.00	-
KAR07	5 891	5 893	0	11.89	2.00	13.89	107.2	0.00	86.41	-	-	0.00	0.00	-
KAR08	5 343	5 347	0	13.05	2.00	15.05	107.2	0.00	85.56	-	-	0.00	0.00	-
KAR09	8 012	8 015	0	8.16	2.00	10.16	107.2	0.00	89.08	-	-	0.00	0.00	-
KAR10	7 424	7 427	0	9.08	2.00	11.08	107.2	0.00	88.42	-	-	0.00	0.00	-
KAR11	6 591	6 594	0	10.53	2.00	12.53	107.2	0.00	87.38	-	-	0.00	0.00	-
KAR12	7 572	7 575	0	8.84	2.00	10.84	107.2	0.00	88.59	-	-	0.00	0.00	-
KAR13	6 621	6 624	0	10.48	2.00	12.48	107.2	0.00	87.42	-	-	0.00	0.00	-
KAR14	8 166	8 168	0	7.92	2.00	9.92	107.2	0.00	89.24	-	-	0.00	0.00	-
KAR15	6 202	6 205	0	11.27	2.00	13.27	107.2	0.00	86.85	-	-	0.00	0.00	-
KAR16	8 080	8 082	0	8.05	2.00	10.05	107.2	0.00	89.15	-	-	0.00	0.00	-
KAR17	7 625	7 627	0	8.76	2.00	10.76	107.2	0.00	88.65	-	-	0.00	0.00	-
KAR18	8 761	8 764	0	7.06	2.00	9.06	107.2	0.00	89.85	-	-	0.00	0.00	-
KAR19	6 617	6 620	0	10.48	2.00	12.48	107.2	0.00	87.42	-	-	0.00	0.00	-
KAR20	8 305	8 307	0	7.72	2.00	9.72	107.2	0.00	89.39	-	-	0.00	0.00	-
KAR21	7 712	7 714	0	8.62	2.00	10.62	107.2	0.00	88.75	-	-	0.00	0.00	-
KAR22	7 442	7 444	0	9.06	2.00	11.06	107.2	0.00	88.44	-	-	0.00	0.00	-
KAR23	8 039	8 041	0	8.12	2.00	10.12	107.2	0.00	89.11	-	-	0.00	0.00	-
KAR24	7 186	7 189	0	9.48	2.00	11.48	107.2	0.00	88.13	-	-	0.00	0.00	-
KAR25	5 754	5 757	0	12.17	2.00	14.17	107.2	0.00	86.20	-	-	0.00	0.00	-
MAA01	4 373	4 376	0	15.76	2.00	17.76	107.2	0.00	83.82	-	-	0.00	0.00	-
MAA03	3 797	3 800	0	17.70	2.00	19.70	107.2	0.00	82.60	-	-	0.00	0.00	-
MAA04	2 677	2 681	0	22.40	2.00	24.40	107.2	0.00	79.57	-	-	0.00	0.00	-
MAA05	3 231	3 235	0	19.89	2.00	21.89	107.2	0.00	81.20	-	-	0.00	0.00	-
MAA06	2 231	2 235	0	24.77	2.00	26.77	107.2	0.00	77.99	-	-	0.00	0.00	-
MAA07	1 564	1 571	0	29.19	2.00	31.19	107.2	0.00	74.92	-	-	0.00	0.00	-
MAA08	1 053	1 064	0	33.79	2.00	35.79	107.2	0.00	71.54	-	-	0.00	0.00	-
RAH01	5 866	5 868	0	14.22	2.00	16.22	106.9	0.00	86.37	-	-	0.00	0.00	-
RAH02	5 290	5 292	0	15.38	2.00	17.38	106.9	0.00	85.47	-	-	0.00	0.00	-
RAH03	5 213	5 216	0	15.54	2.00	17.54	106.9	0.00	85.35	-	-	0.00	0.00	-
RAH04	4 767	4 769	0	16.67	2.00	18.67	106.9	0.00	84.57	-	-	0.00	0.00	-
RAH05	4 343	4 346	0	17.86	2.00	19.86	106.9	0.00	83.76	-	-	0.00	0.00	-
RAH06	3 841	3 844	0	19.43	2.00	21.43	106.9	0.00	82.70	-	-	0.00	0.00	-
RAH07	4 170	4 173	0	18.39	2.00	20.39	106.9	0.00	83.41	-	-	0.00	0.00	-
RAH08	4 816	4 819	0	16.53	2.00	18.53	106.9	0.00	84.66	-	-	0.00	0.00	-
RAH09	4 213	4 216	0	18.26	2.00	20.26	106.9	0.00	83.50	-	-	0.00	0.00	-
RAH10	5 047	5 049	0	15.92	2.00	17.92	106.9	0.00	85.06	-	-	0.00	0.00	-
RAH11	6 123	6 125	0	13.73	2.00	15.73	106.9	0.00	86.74	-	-	0.00	0.00	-
RAH12	6 795	6 797	0	12.52	2.00	14.52	106.9	0.00	87.65	-	-	0.00	0.00	-
RAH13	7 109	7 111	0	11.99	2.00	13.99	106.9	0.00	88.04	-	-	0.00	0.00	-
RAH14	6 551	6 553	0	12.95	2.00	14.95	106.9	0.00	87.33	-	-	0.00	0.00	-
RAH15	7 654	7 656	0	11.11	2.00	13.11	106.9	0.00	88.68	-	-	0.00	0.00	-
RAH16	8 038	8 040	0	10.53	2.00	12.53	106.9	0.00	89.10	-	-	0.00	0.00	-
RAH17	6 969	6 971	0	12.22	2.00	14.22	106.9	0.00	87.87	-	-	0.00	0.00	-
RAH18	7 511	7 513	0	11.34	2.00	13.34	106.9	0.00	88.52	-	-	0.00	0.00	-
RAH19	7 650	7 652	0	11.12	2.00	13.12	106.9	0.00	88.68	-	-	0.00	0.00	-
SIL01	13 557	13 558	0	-0.97	2.00	1.03	108.5	0.00	93.64	-	-	0.00	0.00	-
SIL02	13 071	13 072	0	-0.48	2.00	1.52	108.5	0.00	93.33	-	-	0.00	0.00	-
SIL03	12 440	12 441	0	0.18	2.00	2.18	108.5	0.00	92.90	-	-	0.00	0.00	-
SIL04	12 437	12 438	0	0.18	2.00	2.18	108.5	0.00	92.90	-	-	0.00	0.00	-
SIL05	13 276	13 277	0	-0.69	2.00	1.31	108.5	0.00	93.46	-	-	0.00	0.00	-
SIL06	12 922	12 923	0	-0.33	2.00	1.67	108.5	0.00	93.23	-	-	0.00	0.00	-
SIL07	12 355	12 356	0	0.27	2.00	2.27	108.5	0.00	92.84	-	-	0.00	0.00	-
SIL08	12 680	12 681	0	-0.08	2.00	1.92	108.5	0.00	93.06	-	-	0.00	0.00	-
Sum						38.82								

- Data undefined due to calculation with octave data

Project:

JM_Rahkakuru

Licensed user:

Course Registration

Time-limited until December 19, 2024

Janne Mäkinen / janne.makinen@vindteknikk.com

Calculated:

2024-12-10 8.17/4.1.254

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AL Noise sensitive point: Finnish normal frequency - User defined (33)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	3 381	3 385	0	19.28	2.00	21.28	107.2	0.00	81.59	-	-	0.00	0.00	-
KAR02	4 545	4 548	0	15.23	2.00	17.23	107.2	0.00	84.16	-	-	0.00	0.00	-
KAR03	4 003	4 006	0	16.98	2.00	18.98	107.2	0.00	83.05	-	-	0.00	0.00	-
KAR04	3 584	3 588	0	18.49	2.00	20.49	107.2	0.00	82.10	-	-	0.00	0.00	-
KAR05	3 215	3 219	0	19.96	2.00	21.96	107.2	0.00	81.16	-	-	0.00	0.00	-
KAR06	4 524	4 527	0	15.29	2.00	17.29	107.2	0.00	84.12	-	-	0.00	0.00	-
KAR07	5 265	5 267	0	13.23	2.00	15.23	107.2	0.00	85.43	-	-	0.00	0.00	-
KAR08	6 039	6 041	0	11.59	2.00	13.59	107.2	0.00	86.62	-	-	0.00	0.00	-
KAR09	3 767	3 770	0	17.81	2.00	19.81	107.2	0.00	82.53	-	-	0.00	0.00	-
KAR10	4 224	4 227	0	16.24	2.00	18.24	107.2	0.00	83.52	-	-	0.00	0.00	-
KAR11	5 215	5 218	0	13.34	2.00	15.34	107.2	0.00	85.35	-	-	0.00	0.00	-
KAR12	4 901	4 904	0	14.18	2.00	16.18	107.2	0.00	84.81	-	-	0.00	0.00	-
KAR13	5 777	5 779	0	12.12	2.00	14.12	107.2	0.00	86.24	-	-	0.00	0.00	-
KAR14	4 674	4 677	0	14.84	2.00	16.84	107.2	0.00	84.40	-	-	0.00	0.00	-
KAR15	6 328	6 330	0	11.03	2.00	13.03	107.2	0.00	87.03	-	-	0.00	0.00	-
KAR16	5 380	5 383	0	12.97	2.00	14.97	107.2	0.00	85.62	-	-	0.00	0.00	-
KAR17	5 891	5 893	0	11.89	2.00	13.89	107.2	0.00	86.41	-	-	0.00	0.00	-
KAR18	5 161	5 164	0	13.47	2.00	15.47	107.2	0.00	85.26	-	-	0.00	0.00	-
KAR19	6 995	6 997	0	9.81	2.00	11.81	107.2	0.00	87.90	-	-	0.00	0.00	-
KAR20	6 063	6 065	0	11.54	2.00	13.54	107.2	0.00	86.66	-	-	0.00	0.00	-
KAR21	6 559	6 561	0	10.59	2.00	12.59	107.2	0.00	87.34	-	-	0.00	0.00	-
KAR22	7 055	7 057	0	9.71	2.00	11.71	107.2	0.00	87.97	-	-	0.00	0.00	-
KAR23	7 274	7 276	0	9.34	2.00	11.34	107.2	0.00	88.24	-	-	0.00	0.00	-
KAR24	2 731	2 735	0	22.14	2.00	24.14	107.2	0.00	79.74	-	-	0.00	0.00	-
KAR25	4 131	4 134	0	16.55	2.00	18.55	107.2	0.00	83.33	-	-	0.00	0.00	-
MAA01	6 846	6 847	0	10.26	2.00	12.26	107.2	0.00	87.71	-	-	0.00	0.00	-
MAA03	7 511	7 511	0	9.12	2.00	11.12	107.2	0.00	88.51	-	-	0.00	0.00	-
MAA04	7 526	7 527	0	9.09	2.00	11.09	107.2	0.00	88.53	-	-	0.00	0.00	-
MAA05	8 104	8 105	0	8.18	2.00	10.18	107.2	0.00	89.18	-	-	0.00	0.00	-
MAA06	8 955	8 955	0	6.95	2.00	8.95	107.2	0.00	90.04	-	-	0.00	0.00	-
MAA07	9 201	9 202	0	6.61	2.00	8.61	107.2	0.00	90.28	-	-	0.00	0.00	-
MAA08	9 350	9 350	0	6.42	2.00	8.42	107.2	0.00	90.42	-	-	0.00	0.00	-
RAH01	7 487	7 488	0	11.38	2.00	13.38	106.9	0.00	88.49	-	-	0.00	0.00	-
RAH02	8 086	8 086	0	10.46	2.00	12.46	106.9	0.00	89.16	-	-	0.00	0.00	-
RAH03	7 279	7 280	0	11.71	2.00	13.71	106.9	0.00	88.24	-	-	0.00	0.00	-
RAH04	8 505	8 506	0	9.85	2.00	11.85	106.9	0.00	89.59	-	-	0.00	0.00	-
RAH05	7 821	7 822	0	10.86	2.00	12.86	106.9	0.00	88.87	-	-	0.00	0.00	-
RAH06	8 414	8 415	0	9.98	2.00	11.98	106.9	0.00	89.50	-	-	0.00	0.00	-
RAH07	10 105	10 105	0	7.75	2.00	9.75	106.9	0.00	91.09	-	-	0.00	0.00	-
RAH08	9 964	9 965	0	7.92	2.00	9.92	106.9	0.00	90.97	-	-	0.00	0.00	-
RAH09	9 288	9 289	0	8.78	2.00	10.78	106.9	0.00	90.36	-	-	0.00	0.00	-
RAH10	9 342	9 343	0	8.71	2.00	10.71	106.9	0.00	90.41	-	-	0.00	0.00	-
RAH11	6 572	6 573	0	12.91	2.00	14.91	106.9	0.00	87.36	-	-	0.00	0.00	-
RAH12	6 848	6 849	0	12.43	2.00	14.43	106.9	0.00	87.71	-	-	0.00	0.00	-
RAH13	6 018	6 019	0	13.93	2.00	15.93	106.9	0.00	86.59	-	-	0.00	0.00	-
RAH14	5 724	5 725	0	14.50	2.00	16.50	106.9	0.00	86.16	-	-	0.00	0.00	-
RAH15	5 050	5 052	0	15.92	2.00	17.92	106.9	0.00	85.07	-	-	0.00	0.00	-
RAH16	5 916	5 917	0	14.12	2.00	16.12	106.9	0.00	86.44	-	-	0.00	0.00	-
RAH17	4 011	4 013	0	18.88	2.00	20.88	106.9	0.00	83.07	-	-	0.00	0.00	-
RAH18	4 255	4 258	0	18.13	2.00	20.13	106.9	0.00	83.58	-	-	0.00	0.00	-
RAH19	3 261	3 264	0	21.49	2.00	23.49	106.9	0.00	81.28	-	-	0.00	0.00	-
SIL01	5 959	5 961	0	10.38	2.00	12.38	108.5	0.00	86.51	-	-	0.00	0.00	-
SIL02	5 156	5 158	0	12.42	2.00	14.42	108.5	0.00	85.25	-	-	0.00	0.00	-
SIL03	4 348	4 350	0	14.86	2.00	16.86	108.5	0.00	83.77	-	-	0.00	0.00	-
SIL04	4 749	4 751	0	13.57	2.00	15.57	108.5	0.00	84.54	-	-	0.00	0.00	-
SIL05	6 103	6 104	0	10.05	2.00	12.05	108.5	0.00	86.71	-	-	0.00	0.00	-
SIL06	5 483	5 484	0	11.56	2.00	13.56	108.5	0.00	85.78	-	-	0.00	0.00	-
SIL07	5 161	5 162	0	12.41	2.00	14.41	108.5	0.00	85.26	-	-	0.00	0.00	-
SIL08	5 795	5 796	0	10.78	2.00	12.78	108.5	0.00	86.26	-	-	0.00	0.00	-
Sum						34.19								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AM Noise sensitive point: Finnish normal frequency - User defined (32)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	2 259	2 264	0	24.60	2.00	26.60	107.2	0.00	78.10	-	-	0.00	0.00	-
KAR02	3 421	3 424	0	19.12	2.00	21.12	107.2	0.00	81.69	-	-	0.00	0.00	-
KAR03	2 842	2 847	0	21.61	2.00	23.61	107.2	0.00	80.09	-	-	0.00	0.00	-
KAR04	2 388	2 393	0	23.89	2.00	25.89	107.2	0.00	78.58	-	-	0.00	0.00	-
KAR05	2 031	2 037	0	25.96	2.00	27.96	107.2	0.00	77.18	-	-	0.00	0.00	-
KAR06	3 333	3 337	0	19.47	2.00	21.47	107.2	0.00	81.47	-	-	0.00	0.00	-
KAR07	4 090	4 092	0	16.68	2.00	18.68	107.2	0.00	83.24	-	-	0.00	0.00	-
KAR08	4 878	4 880	0	14.25	2.00	16.25	107.2	0.00	84.77	-	-	0.00	0.00	-
KAR09	2 610	2 615	0	22.73	2.00	24.73	107.2	0.00	79.35	-	-	0.00	0.00	-
KAR10	3 032	3 037	0	20.74	2.00	22.74	107.2	0.00	80.65	-	-	0.00	0.00	-
KAR11	4 018	4 021	0	16.93	2.00	18.93	107.2	0.00	83.09	-	-	0.00	0.00	-
KAR12	3 720	3 723	0	17.98	2.00	19.98	107.2	0.00	82.42	-	-	0.00	0.00	-
KAR13	4 578	4 581	0	15.13	2.00	17.13	107.2	0.00	84.22	-	-	0.00	0.00	-
KAR14	3 534	3 538	0	18.68	2.00	20.68	107.2	0.00	81.98	-	-	0.00	0.00	-
KAR15	5 133	5 135	0	13.54	2.00	15.54	107.2	0.00	85.21	-	-	0.00	0.00	-
KAR16	4 229	4 232	0	16.22	2.00	18.22	107.2	0.00	83.53	-	-	0.00	0.00	-
KAR17	4 712	4 715	0	14.73	2.00	16.73	107.2	0.00	84.47	-	-	0.00	0.00	-
KAR18	4 075	4 078	0	16.73	2.00	18.73	107.2	0.00	83.21	-	-	0.00	0.00	-
KAR19	5 796	5 798	0	12.08	2.00	14.08	107.2	0.00	86.27	-	-	0.00	0.00	-
KAR20	4 919	4 922	0	14.13	2.00	16.13	107.2	0.00	84.84	-	-	0.00	0.00	-
KAR21	5 381	5 383	0	12.97	2.00	14.97	107.2	0.00	85.62	-	-	0.00	0.00	-
KAR22	5 866	5 868	0	11.94	2.00	13.94	107.2	0.00	86.37	-	-	0.00	0.00	-
KAR23	6 101	6 104	0	11.47	2.00	13.47	107.2	0.00	86.71	-	-	0.00	0.00	-
KAR24	1 591	1 598	0	28.98	2.00	30.98	107.2	0.00	75.07	-	-	0.00	0.00	-
KAR25	3 064	3 068	0	20.61	2.00	22.61	107.2	0.00	80.74	-	-	0.00	0.00	-
MAA01	6 550	6 551	0	10.80	2.00	12.80	107.2	0.00	87.33	-	-	0.00	0.00	-
MAA03	7 144	7 145	0	9.74	2.00	11.74	107.2	0.00	88.08	-	-	0.00	0.00	-
MAA04	6 971	6 972	0	10.04	2.00	12.04	107.2	0.00	87.87	-	-	0.00	0.00	-
MAA05	7 668	7 669	0	8.86	2.00	10.86	107.2	0.00	88.69	-	-	0.00	0.00	-
MAA06	8 396	8 397	0	7.74	2.00	9.74	107.2	0.00	89.48	-	-	0.00	0.00	-
MAA07	8 563	8 564	0	7.50	2.00	9.50	107.2	0.00	89.65	-	-	0.00	0.00	-
MAA08	8 654	8 655	0	7.37	2.00	9.37	107.2	0.00	89.75	-	-	0.00	0.00	-
RAH01	7 453	7 454	0	11.43	2.00	13.43	106.9	0.00	88.45	-	-	0.00	0.00	-
RAH02	7 951	7 952	0	10.66	2.00	12.66	106.9	0.00	89.01	-	-	0.00	0.00	-
RAH03	7 140	7 141	0	11.94	2.00	13.94	106.9	0.00	88.07	-	-	0.00	0.00	-
RAH04	8 286	8 287	0	10.16	2.00	12.16	106.9	0.00	89.37	-	-	0.00	0.00	-
RAH05	7 546	7 547	0	11.28	2.00	13.28	106.9	0.00	88.56	-	-	0.00	0.00	-
RAH06	8 067	8 068	0	10.48	2.00	12.48	106.9	0.00	89.14	-	-	0.00	0.00	-
RAH07	9 747	9 748	0	8.19	2.00	10.19	106.9	0.00	90.78	-	-	0.00	0.00	-
RAH08	9 696	9 696	0	8.26	2.00	10.26	106.9	0.00	90.73	-	-	0.00	0.00	-
RAH09	8 972	8 973	0	9.20	2.00	11.20	106.9	0.00	90.06	-	-	0.00	0.00	-
RAH10	9 133	9 134	0	8.98	2.00	10.98	106.9	0.00	90.21	-	-	0.00	0.00	-
RAH11	6 590	6 591	0	12.88	2.00	14.88	106.9	0.00	87.38	-	-	0.00	0.00	-
RAH12	6 981	6 982	0	12.20	2.00	14.20	106.9	0.00	87.88	-	-	0.00	0.00	-
RAH13	6 225	6 226	0	13.54	2.00	15.54	106.9	0.00	86.88	-	-	0.00	0.00	-
RAH14	5 820	5 821	0	14.31	2.00	16.31	106.9	0.00	86.30	-	-	0.00	0.00	-
RAH15	5 383	5 384	0	15.19	2.00	17.19	106.9	0.00	85.62	-	-	0.00	0.00	-
RAH16	6 301	6 303	0	13.40	2.00	15.40	106.9	0.00	86.99	-	-	0.00	0.00	-
RAH17	4 138	4 140	0	18.49	2.00	20.49	106.9	0.00	83.34	-	-	0.00	0.00	-
RAH18	4 552	4 555	0	17.26	2.00	19.26	106.9	0.00	84.17	-	-	0.00	0.00	-
RAH19	3 556	3 559	0	20.41	2.00	22.41	106.9	0.00	82.03	-	-	0.00	0.00	-
SIL01	7 135	7 137	0	7.84	2.00	9.84	108.5	0.00	88.07	-	-	0.00	0.00	-
SIL02	6 342	6 344	0	9.50	2.00	11.50	108.5	0.00	87.05	-	-	0.00	0.00	-
SIL03	5 536	5 537	0	11.43	2.00	13.43	108.5	0.00	85.87	-	-	0.00	0.00	-
SIL04	5 914	5 916	0	10.49	2.00	12.49	108.5	0.00	86.44	-	-	0.00	0.00	-
SIL05	7 250	7 251	0	7.61	2.00	9.61	108.5	0.00	88.21	-	-	0.00	0.00	-
SIL06	6 641	6 642	0	8.85	2.00	10.85	108.5	0.00	87.45	-	-	0.00	0.00	-
SIL07	6 290	6 291	0	9.62	2.00	11.62	108.5	0.00	86.97	-	-	0.00	0.00	-
SIL08	6 909	6 910	0	8.29	2.00	10.29	108.5	0.00	87.79	-	-	0.00	0.00	-
Sum						37.54								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AN Noise sensitive point: Finnish normal frequency - User defined (30)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	3 993	3 997	0	17.01	2.00	19.01	107.2	0.00	83.03	-	-	0.00	0.00	-
KAR02	3 042	3 047	0	20.70	2.00	22.70	107.2	0.00	80.68	-	-	0.00	0.00	-
KAR03	3 705	3 709	0	18.03	2.00	20.03	107.2	0.00	82.39	-	-	0.00	0.00	-
KAR04	4 424	4 428	0	15.60	2.00	17.60	107.2	0.00	83.92	-	-	0.00	0.00	-
KAR05	5 139	5 142	0	13.53	2.00	15.53	107.2	0.00	85.22	-	-	0.00	0.00	-
KAR06	3 803	3 807	0	17.68	2.00	19.68	107.2	0.00	82.61	-	-	0.00	0.00	-
KAR07	3 168	3 172	0	20.16	2.00	22.16	107.2	0.00	81.03	-	-	0.00	0.00	-
KAR08	2 687	2 693	0	22.34	2.00	24.34	107.2	0.00	79.60	-	-	0.00	0.00	-
KAR09	5 293	5 296	0	13.17	2.00	15.17	107.2	0.00	85.48	-	-	0.00	0.00	-
KAR10	4 696	4 699	0	14.77	2.00	16.77	107.2	0.00	84.44	-	-	0.00	0.00	-
KAR11	3 878	3 882	0	17.41	2.00	19.41	107.2	0.00	82.78	-	-	0.00	0.00	-
KAR12	4 851	4 854	0	14.33	2.00	16.33	107.2	0.00	84.72	-	-	0.00	0.00	-
KAR13	3 960	3 965	0	17.12	2.00	19.12	107.2	0.00	82.96	-	-	0.00	0.00	-
KAR14	5 438	5 442	0	12.84	2.00	14.84	107.2	0.00	85.71	-	-	0.00	0.00	-
KAR15	3 623	3 627	0	18.34	2.00	20.34	107.2	0.00	82.19	-	-	0.00	0.00	-
KAR16	5 383	5 386	0	12.97	2.00	14.97	107.2	0.00	85.62	-	-	0.00	0.00	-
KAR17	4 975	4 979	0	13.97	2.00	15.97	107.2	0.00	84.94	-	-	0.00	0.00	-
KAR18	6 047	6 050	0	11.57	2.00	13.57	107.2	0.00	86.64	-	-	0.00	0.00	-
KAR19	4 172	4 176	0	16.41	2.00	18.41	107.2	0.00	83.42	-	-	0.00	0.00	-
KAR20	5 661	5 664	0	12.37	2.00	14.37	107.2	0.00	86.06	-	-	0.00	0.00	-
KAR21	5 146	5 149	0	13.51	2.00	15.51	107.2	0.00	85.23	-	-	0.00	0.00	-
KAR22	4 972	4 975	0	13.98	2.00	15.98	107.2	0.00	84.94	-	-	0.00	0.00	-
KAR23	5 576	5 579	0	12.55	2.00	14.55	107.2	0.00	85.93	-	-	0.00	0.00	-
KAR24	4 627	4 630	0	14.98	2.00	16.98	107.2	0.00	84.31	-	-	0.00	0.00	-
KAR25	3 136	3 141	0	20.29	2.00	22.29	107.2	0.00	80.94	-	-	0.00	0.00	-
MAA01	4 313	4 314	0	15.96	2.00	17.96	107.2	0.00	83.70	-	-	0.00	0.00	-
MAA03	4 170	4 172	0	16.42	2.00	18.42	107.2	0.00	83.41	-	-	0.00	0.00	-
MAA04	3 015	3 018	0	20.83	2.00	22.83	107.2	0.00	80.59	-	-	0.00	0.00	-
MAA05	4 047	4 049	0	16.83	2.00	18.83	107.2	0.00	83.15	-	-	0.00	0.00	-
MAA06	3 815	3 817	0	17.64	2.00	19.64	107.2	0.00	82.63	-	-	0.00	0.00	-
MAA07	3 512	3 514	0	18.77	2.00	20.77	107.2	0.00	81.92	-	-	0.00	0.00	-
MAA08	3 290	3 293	0	19.65	2.00	21.65	107.2	0.00	81.35	-	-	0.00	0.00	-
RAH01	6 053	6 055	0	13.86	2.00	15.86	106.9	0.00	86.64	-	-	0.00	0.00	-
RAH02	5 826	5 828	0	14.29	2.00	16.29	106.9	0.00	86.31	-	-	0.00	0.00	-
RAH03	5 369	5 370	0	15.22	2.00	17.22	106.9	0.00	85.60	-	-	0.00	0.00	-
RAH04	5 587	5 589	0	14.77	2.00	16.77	106.9	0.00	85.95	-	-	0.00	0.00	-
RAH05	4 866	4 868	0	16.40	2.00	18.40	106.9	0.00	84.75	-	-	0.00	0.00	-
RAH06	4 767	4 770	0	16.66	2.00	18.66	106.9	0.00	84.57	-	-	0.00	0.00	-
RAH07	5 881	5 883	0	14.19	2.00	16.19	106.9	0.00	86.39	-	-	0.00	0.00	-
RAH08	6 302	6 303	0	13.40	2.00	15.40	106.9	0.00	86.99	-	-	0.00	0.00	-
RAH09	5 528	5 530	0	14.89	2.00	16.89	106.9	0.00	85.85	-	-	0.00	0.00	-
RAH10	6 204	6 206	0	13.57	2.00	15.57	106.9	0.00	86.86	-	-	0.00	0.00	-
RAH11	5 880	5 882	0	14.19	2.00	16.19	106.9	0.00	86.39	-	-	0.00	0.00	-
RAH12	6 610	6 612	0	12.84	2.00	14.84	106.9	0.00	87.41	-	-	0.00	0.00	-
RAH13	6 571	6 573	0	12.91	2.00	14.91	106.9	0.00	87.36	-	-	0.00	0.00	-
RAH14	5 922	5 924	0	14.11	2.00	16.11	106.9	0.00	86.45	-	-	0.00	0.00	-
RAH15	6 727	6 729	0	12.64	2.00	14.64	106.9	0.00	87.56	-	-	0.00	0.00	-
RAH16	7 383	7 384	0	11.54	2.00	13.54	106.9	0.00	88.37	-	-	0.00	0.00	-
RAH17	5 642	5 645	0	14.66	2.00	16.66	106.9	0.00	86.03	-	-	0.00	0.00	-
RAH18	6 305	6 307	0	13.39	2.00	15.39	106.9	0.00	87.00	-	-	0.00	0.00	-
RAH19	6 099	6 101	0	13.77	2.00	15.77	106.9	0.00	86.71	-	-	0.00	0.00	-
SIL01	11 958	11 959	0	0.71	2.00	2.71	108.5	0.00	92.55	-	-	0.00	0.00	-
SIL02	11 358	11 359	0	1.40	2.00	3.40	108.5	0.00	92.11	-	-	0.00	0.00	-
SIL03	10 648	10 649	0	2.28	2.00	4.28	108.5	0.00	91.55	-	-	0.00	0.00	-
SIL04	10 761	10 762	0	2.14	2.00	4.14	108.5	0.00	91.64	-	-	0.00	0.00	-
SIL05	11 789	11 790	0	0.90	2.00	2.90	108.5	0.00	92.43	-	-	0.00	0.00	-
SIL06	11 341	11 342	0	1.43	2.00	3.43	108.5	0.00	92.09	-	-	0.00	0.00	-
SIL07	10 813	10 814	0	2.07	2.00	4.07	108.5	0.00	91.68	-	-	0.00	0.00	-
SIL08	11 243	11 244	0	1.54	2.00	3.54	108.5	0.00	92.02	-	-	0.00	0.00	-
Sum						35.45								

- Data undefined due to calculation with octave data

Project:

JM_Rahkakuru

Licensed user:

Course Registration

Time-limited until December 19, 2024

Janne Mäkinen / janne.makinen@vindteknikk.com

Calculated:

2024-12-10 8.17/4.1.254

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AO Noise sensitive point: Finnish normal frequency - User defined (7)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	2 949	2 954	0	21.11	2.00	23.11	107.2	0.00	80.41	-	-	0.00	0.00	-
KAR02	2 028	2 035	0	25.97	2.00	27.97	107.2	0.00	77.17	-	-	0.00	0.00	-
KAR03	2 680	2 686	0	22.38	2.00	24.38	107.2	0.00	79.58	-	-	0.00	0.00	-
KAR04	3 400	3 405	0	19.20	2.00	21.20	107.2	0.00	81.64	-	-	0.00	0.00	-
KAR05	4 113	4 117	0	16.60	2.00	18.60	107.2	0.00	83.29	-	-	0.00	0.00	-
KAR06	2 845	2 850	0	21.59	2.00	23.59	107.2	0.00	80.10	-	-	0.00	0.00	-
KAR07	2 308	2 314	0	24.32	2.00	26.32	107.2	0.00	78.29	-	-	0.00	0.00	-
KAR08	2 033	2 040	0	25.94	2.00	27.94	107.2	0.00	77.19	-	-	0.00	0.00	-
KAR09	4 302	4 306	0	15.98	2.00	17.98	107.2	0.00	83.68	-	-	0.00	0.00	-
KAR10	3 733	3 738	0	17.93	2.00	19.93	107.2	0.00	82.45	-	-	0.00	0.00	-
KAR11	3 034	3 040	0	20.73	2.00	22.73	107.2	0.00	80.66	-	-	0.00	0.00	-
KAR12	3 967	3 971	0	17.10	2.00	19.10	107.2	0.00	82.98	-	-	0.00	0.00	-
KAR13	3 227	3 232	0	19.91	2.00	21.91	107.2	0.00	81.19	-	-	0.00	0.00	-
KAR14	4 526	4 530	0	15.28	2.00	17.28	107.2	0.00	84.12	-	-	0.00	0.00	-
KAR15	3 028	3 033	0	20.76	2.00	22.76	107.2	0.00	80.64	-	-	0.00	0.00	-
KAR16	4 552	4 556	0	15.20	2.00	17.20	107.2	0.00	84.17	-	-	0.00	0.00	-
KAR17	4 232	4 236	0	16.21	2.00	18.21	107.2	0.00	83.54	-	-	0.00	0.00	-
KAR18	5 174	5 177	0	13.44	2.00	15.44	107.2	0.00	85.28	-	-	0.00	0.00	-
KAR19	3 703	3 707	0	18.04	2.00	20.04	107.2	0.00	82.38	-	-	0.00	0.00	-
KAR20	4 913	4 917	0	14.15	2.00	16.15	107.2	0.00	84.83	-	-	0.00	0.00	-
KAR21	4 508	4 511	0	15.34	2.00	17.34	107.2	0.00	84.09	-	-	0.00	0.00	-
KAR22	4 442	4 446	0	15.54	2.00	17.54	107.2	0.00	83.96	-	-	0.00	0.00	-
KAR23	5 034	5 037	0	13.81	2.00	15.81	107.2	0.00	85.04	-	-	0.00	0.00	-
KAR24	3 584	3 589	0	18.48	2.00	20.48	107.2	0.00	82.10	-	-	0.00	0.00	-
KAR25	2 091	2 099	0	25.58	2.00	27.58	107.2	0.00	77.44	-	-	0.00	0.00	-
MAA01	4 334	4 336	0	15.89	2.00	17.89	107.2	0.00	83.74	-	-	0.00	0.00	-
MAA03	4 376	4 378	0	15.75	2.00	17.75	107.2	0.00	83.83	-	-	0.00	0.00	-
MAA04	3 387	3 390	0	19.26	2.00	21.26	107.2	0.00	81.60	-	-	0.00	0.00	-
MAA05	4 424	4 426	0	15.60	2.00	17.60	107.2	0.00	83.92	-	-	0.00	0.00	-
MAA06	4 457	4 459	0	15.50	2.00	17.50	107.2	0.00	83.98	-	-	0.00	0.00	-
MAA07	4 280	4 282	0	16.06	2.00	18.06	107.2	0.00	83.63	-	-	0.00	0.00	-
MAA08	4 145	4 147	0	16.50	2.00	18.50	107.2	0.00	83.36	-	-	0.00	0.00	-
RAH01	6 038	6 039	0	13.89	2.00	15.89	106.9	0.00	86.62	-	-	0.00	0.00	-
RAH02	5 957	5 958	0	14.04	2.00	16.04	106.9	0.00	86.50	-	-	0.00	0.00	-
RAH03	5 383	5 385	0	15.19	2.00	17.19	106.9	0.00	85.62	-	-	0.00	0.00	-
RAH04	5 837	5 838	0	14.27	2.00	16.27	106.9	0.00	86.33	-	-	0.00	0.00	-
RAH05	5 059	5 061	0	15.89	2.00	17.89	106.9	0.00	85.09	-	-	0.00	0.00	-
RAH06	5 113	5 115	0	15.76	2.00	17.76	106.9	0.00	85.18	-	-	0.00	0.00	-
RAH07	6 427	6 429	0	13.17	2.00	15.17	106.9	0.00	87.16	-	-	0.00	0.00	-
RAH08	6 751	6 753	0	12.59	2.00	14.59	106.9	0.00	87.59	-	-	0.00	0.00	-
RAH09	5 955	5 957	0	14.04	2.00	16.04	106.9	0.00	86.50	-	-	0.00	0.00	-
RAH10	6 541	6 543	0	12.96	2.00	14.96	106.9	0.00	87.32	-	-	0.00	0.00	-
RAH11	5 704	5 706	0	14.53	2.00	16.53	106.9	0.00	86.13	-	-	0.00	0.00	-
RAH12	6 421	6 423	0	13.18	2.00	15.18	106.9	0.00	87.15	-	-	0.00	0.00	-
RAH13	6 243	6 245	0	13.50	2.00	15.50	106.9	0.00	86.91	-	-	0.00	0.00	-
RAH14	5 588	5 590	0	14.77	2.00	16.77	106.9	0.00	85.95	-	-	0.00	0.00	-
RAH15	6 236	6 238	0	13.52	2.00	15.52	106.9	0.00	86.90	-	-	0.00	0.00	-
RAH16	6 977	6 979	0	12.21	2.00	14.21	106.9	0.00	87.88	-	-	0.00	0.00	-
RAH17	5 029	5 032	0	15.97	2.00	17.97	106.9	0.00	85.03	-	-	0.00	0.00	-
RAH18	5 716	5 718	0	14.51	2.00	16.51	106.9	0.00	86.15	-	-	0.00	0.00	-
RAH19	5 375	5 378	0	15.20	2.00	17.20	106.9	0.00	85.61	-	-	0.00	0.00	-
SIL01	11 136	11 137	0	1.67	2.00	3.67	108.5	0.00	91.94	-	-	0.00	0.00	-
SIL02	10 503	10 504	0	2.47	2.00	4.47	108.5	0.00	91.43	-	-	0.00	0.00	-
SIL03	9 772	9 773	0	3.45	2.00	5.45	108.5	0.00	90.80	-	-	0.00	0.00	-
SIL04	9 921	9 923	0	3.25	2.00	5.25	108.5	0.00	90.93	-	-	0.00	0.00	-
SIL05	11 004	11 005	0	1.83	2.00	3.83	108.5	0.00	91.83	-	-	0.00	0.00	-
SIL06	10 528	10 529	0	2.43	2.00	4.43	108.5	0.00	91.45	-	-	0.00	0.00	-
SIL07	10 017	10 018	0	3.12	2.00	5.12	108.5	0.00	91.02	-	-	0.00	0.00	-
SIL08	10 480	10 481	0	2.50	2.00	4.50	108.5	0.00	91.41	-	-	0.00	0.00	-
Sum						37.70								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AP Noise sensitive point: Finnish normal frequency - User defined (8)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	4 067	4 071	0	16.75	2.00	18.75	107.2	0.00	83.20	-	-	0.00	0.00	-
KAR02	2 991	2 997	0	20.92	2.00	22.92	107.2	0.00	80.53	-	-	0.00	0.00	-
KAR03	3 660	3 665	0	18.20	2.00	20.20	107.2	0.00	82.28	-	-	0.00	0.00	-
KAR04	4 360	4 364	0	15.80	2.00	17.80	107.2	0.00	83.80	-	-	0.00	0.00	-
KAR05	5 070	5 073	0	13.71	2.00	15.71	107.2	0.00	85.11	-	-	0.00	0.00	-
KAR06	3 613	3 618	0	18.37	2.00	20.37	107.2	0.00	82.17	-	-	0.00	0.00	-
KAR07	2 878	2 884	0	21.43	2.00	23.43	107.2	0.00	80.20	-	-	0.00	0.00	-
KAR08	2 248	2 255	0	24.66	2.00	26.66	107.2	0.00	78.06	-	-	0.00	0.00	-
KAR09	5 130	5 134	0	13.55	2.00	15.55	107.2	0.00	85.21	-	-	0.00	0.00	-
KAR10	4 489	4 493	0	15.39	2.00	17.39	107.2	0.00	84.05	-	-	0.00	0.00	-
KAR11	3 540	3 545	0	18.65	2.00	20.65	107.2	0.00	81.99	-	-	0.00	0.00	-
KAR12	4 532	4 536	0	15.26	2.00	17.26	107.2	0.00	84.13	-	-	0.00	0.00	-
KAR13	3 519	3 524	0	18.73	2.00	20.73	107.2	0.00	81.94	-	-	0.00	0.00	-
KAR14	5 145	5 148	0	13.51	2.00	15.51	107.2	0.00	85.23	-	-	0.00	0.00	-
KAR15	3 092	3 097	0	20.48	2.00	22.48	107.2	0.00	80.82	-	-	0.00	0.00	-
KAR16	4 995	4 999	0	13.92	2.00	15.92	107.2	0.00	84.98	-	-	0.00	0.00	-
KAR17	4 516	4 520	0	15.31	2.00	17.31	107.2	0.00	84.10	-	-	0.00	0.00	-
KAR18	5 697	5 700	0	12.29	2.00	14.29	107.2	0.00	86.12	-	-	0.00	0.00	-
KAR19	3 553	3 558	0	18.60	2.00	20.60	107.2	0.00	82.02	-	-	0.00	0.00	-
KAR20	5 194	5 198	0	13.39	2.00	15.39	107.2	0.00	85.32	-	-	0.00	0.00	-
KAR21	4 607	4 611	0	15.04	2.00	17.04	107.2	0.00	84.28	-	-	0.00	0.00	-
KAR22	4 371	4 375	0	15.76	2.00	17.76	107.2	0.00	83.82	-	-	0.00	0.00	-
KAR23	4 974	4 977	0	13.98	2.00	15.98	107.2	0.00	84.94	-	-	0.00	0.00	-
KAR24	4 730	4 733	0	14.68	2.00	16.68	107.2	0.00	84.50	-	-	0.00	0.00	-
KAR25	3 227	3 231	0	19.91	2.00	21.91	107.2	0.00	81.19	-	-	0.00	0.00	-
MAA01	5 081	5 083	0	13.89	2.00	15.89	107.2	0.00	85.12	-	-	0.00	0.00	-
MAA03	4 940	4 942	0	14.23	2.00	16.23	107.2	0.00	84.88	-	-	0.00	0.00	-
MAA04	3 773	3 776	0	17.79	2.00	19.79	107.2	0.00	82.54	-	-	0.00	0.00	-
MAA05	4 798	4 800	0	14.58	2.00	16.58	107.2	0.00	84.62	-	-	0.00	0.00	-
MAA06	4 488	4 490	0	15.41	2.00	17.41	107.2	0.00	84.04	-	-	0.00	0.00	-
MAA07	4 118	4 120	0	16.59	2.00	18.59	107.2	0.00	83.30	-	-	0.00	0.00	-
MAA08	3 831	3 834	0	17.58	2.00	19.58	107.2	0.00	82.67	-	-	0.00	0.00	-
RAH01	6 822	6 824	0	12.47	2.00	14.47	106.9	0.00	87.68	-	-	0.00	0.00	-
RAH02	6 598	6 600	0	12.86	2.00	14.86	106.9	0.00	87.39	-	-	0.00	0.00	-
RAH03	6 138	6 140	0	13.70	2.00	15.70	106.9	0.00	86.76	-	-	0.00	0.00	-
RAH04	6 351	6 353	0	13.30	2.00	15.30	106.9	0.00	87.06	-	-	0.00	0.00	-
RAH05	5 636	5 638	0	14.67	2.00	16.67	106.9	0.00	86.02	-	-	0.00	0.00	-
RAH06	5 521	5 523	0	14.90	2.00	16.90	106.9	0.00	85.84	-	-	0.00	0.00	-
RAH07	6 576	6 578	0	12.90	2.00	14.90	106.9	0.00	87.36	-	-	0.00	0.00	-
RAH08	7 026	7 028	0	12.13	2.00	14.13	106.9	0.00	87.94	-	-	0.00	0.00	-
RAH09	6 261	6 263	0	13.47	2.00	15.47	106.9	0.00	86.94	-	-	0.00	0.00	-
RAH10	6 955	6 956	0	12.25	2.00	14.25	106.9	0.00	87.85	-	-	0.00	0.00	-
RAH11	6 630	6 632	0	12.81	2.00	14.81	106.9	0.00	87.43	-	-	0.00	0.00	-
RAH12	7 359	7 361	0	11.58	2.00	13.58	106.9	0.00	88.34	-	-	0.00	0.00	-
RAH13	7 290	7 292	0	11.69	2.00	13.69	106.9	0.00	88.26	-	-	0.00	0.00	-
RAH14	6 638	6 639	0	12.79	2.00	14.79	106.9	0.00	87.44	-	-	0.00	0.00	-
RAH15	7 394	7 395	0	11.52	2.00	13.52	106.9	0.00	88.38	-	-	0.00	0.00	-
RAH16	8 081	8 082	0	10.46	2.00	12.46	106.9	0.00	89.15	-	-	0.00	0.00	-
RAH17	6 251	6 254	0	13.49	2.00	15.49	106.9	0.00	86.92	-	-	0.00	0.00	-
RAH18	6 928	6 930	0	12.29	2.00	14.29	106.9	0.00	87.81	-	-	0.00	0.00	-
RAH19	6 646	6 648	0	12.78	2.00	14.78	106.9	0.00	87.45	-	-	0.00	0.00	-
SIL01	12 434	12 435	0	0.19	2.00	2.19	108.5	0.00	92.89	-	-	0.00	0.00	-
SIL02	11 803	11 804	0	0.89	2.00	2.89	108.5	0.00	92.44	-	-	0.00	0.00	-
SIL03	11 071	11 072	0	1.75	2.00	3.75	108.5	0.00	91.88	-	-	0.00	0.00	-
SIL04	11 221	11 222	0	1.57	2.00	3.57	108.5	0.00	92.00	-	-	0.00	0.00	-
SIL05	12 296	12 297	0	0.33	2.00	2.33	108.5	0.00	92.80	-	-	0.00	0.00	-
SIL06	11 825	11 826	0	0.86	2.00	2.86	108.5	0.00	92.46	-	-	0.00	0.00	-
SIL07	11 311	11 312	0	1.46	2.00	3.46	108.5	0.00	92.07	-	-	0.00	0.00	-
SIL08	11 767	11 768	0	0.93	2.00	2.93	108.5	0.00	92.41	-	-	0.00	0.00	-
Sum						35.46								

- Data undefined due to calculation with octave data

DECIBEL - Detailed results

Calculation: Rahkakuru VE1 Noise calculation model: ISO 9613-2:2024 Finland 8.0 m/s

Noise sensitive area: AQ Noise sensitive point: Finnish normal frequency - User defined (14)

Wind speed: 8.0 m/s

WTG

No.	Distance	Sound distance	Penalty	From WTGs	Uncertainty	WTG+Uncertainty	LwA,ref	Dc	Adiv	Aatm	Agr	Abar	Amisc	A
	[m]	[m]	[dB]	[dB(A)]	margin	margin	[dB(A)]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
KAR01	4 641	4 644	0	14.94	2.00	16.94	107.2	0.00	84.34	-	-	0.00	0.00	-
KAR02	3 480	3 485	0	18.88	2.00	20.88	107.2	0.00	81.84	-	-	0.00	0.00	-
KAR03	4 033	4 037	0	16.87	2.00	18.87	107.2	0.00	83.12	-	-	0.00	0.00	-
KAR04	4 586	4 590	0	15.10	2.00	17.10	107.2	0.00	84.24	-	-	0.00	0.00	-
KAR05	5 207	5 210	0	13.36	2.00	15.36	107.2	0.00	85.34	-	-	0.00	0.00	-
KAR06	3 649	3 654	0	18.24	2.00	20.24	107.2	0.00	82.25	-	-	0.00	0.00	-
KAR07	2 829	2 834	0	21.66	2.00	23.66	107.2	0.00	80.05	-	-	0.00	0.00	-
KAR08	2 012	2 019	0	26.07	2.00	28.07	107.2	0.00	77.10	-	-	0.00	0.00	-
KAR09	5 029	5 033	0	13.82	2.00	15.82	107.2	0.00	85.04	-	-	0.00	0.00	-
KAR10	4 347	4 352	0	15.84	2.00	17.84	107.2	0.00	83.77	-	-	0.00	0.00	-
KAR11	3 194	3 200	0	20.04	2.00	22.04	107.2	0.00	81.10	-	-	0.00	0.00	-
KAR12	4 083	4 087	0	16.70	2.00	18.70	107.2	0.00	83.23	-	-	0.00	0.00	-
KAR13	2 866	2 872	0	21.49	2.00	23.49	107.2	0.00	80.16	-	-	0.00	0.00	-
KAR14	4 699	4 703	0	14.76	2.00	16.76	107.2	0.00	84.45	-	-	0.00	0.00	-
KAR15	2 233	2 240	0	24.74	2.00	26.74	107.2	0.00	78.01	-	-	0.00	0.00	-
KAR16	4 301	4 305	0	15.99	2.00	17.99	107.2	0.00	83.68	-	-	0.00	0.00	-
KAR17	3 657	3 662	0	18.21	2.00	20.21	107.2	0.00	82.27	-	-	0.00	0.00	-
KAR18	5 047	5 051	0	13.78	2.00	15.78	107.2	0.00	85.07	-	-	0.00	0.00	-
KAR19	2 265	2 273	0	24.56	2.00	26.56	107.2	0.00	78.13	-	-	0.00	0.00	-
KAR20	4 246	4 251	0	16.16	2.00	18.16	107.2	0.00	83.57	-	-	0.00	0.00	-
KAR21	3 481	3 486	0	18.88	2.00	20.88	107.2	0.00	81.85	-	-	0.00	0.00	-
KAR22	3 054	3 060	0	20.64	2.00	22.64	107.2	0.00	80.71	-	-	0.00	0.00	-
KAR23	3 608	3 613	0	18.39	2.00	20.39	107.2	0.00	82.16	-	-	0.00	0.00	-
KAR24	5 292	5 295	0	13.17	2.00	15.17	107.2	0.00	85.48	-	-	0.00	0.00	-
KAR25	3 959	3 963	0	17.13	2.00	19.13	107.2	0.00	82.96	-	-	0.00	0.00	-
MAA01	6 952	6 953	0	10.07	2.00	12.07	107.2	0.00	87.84	-	-	0.00	0.00	-
MAA03	6 834	6 835	0	10.28	2.00	12.28	107.2	0.00	87.69	-	-	0.00	0.00	-
MAA04	5 664	5 666	0	12.58	2.00	14.58	107.2	0.00	86.07	-	-	0.00	0.00	-
MAA05	6 683	6 685	0	10.56	2.00	12.56	107.2	0.00	87.50	-	-	0.00	0.00	-
MAA06	6 292	6 293	0	11.30	2.00	13.30	107.2	0.00	86.98	-	-	0.00	0.00	-
MAA07	5 846	5 848	0	12.19	2.00	14.19	107.2	0.00	86.34	-	-	0.00	0.00	-
MAA08	5 485	5 486	0	12.97	2.00	14.97	107.2	0.00	85.79	-	-	0.00	0.00	-
RAH01	8 690	8 691	0	9.59	2.00	11.59	106.9	0.00	89.78	-	-	0.00	0.00	-
RAH02	8 489	8 490	0	9.87	2.00	11.87	106.9	0.00	89.58	-	-	0.00	0.00	-
RAH03	8 011	8 012	0	10.57	2.00	12.57	106.9	0.00	89.08	-	-	0.00	0.00	-
RAH04	8 245	8 246	0	10.22	2.00	12.22	106.9	0.00	89.32	-	-	0.00	0.00	-
RAH05	7 529	7 531	0	11.31	2.00	13.31	106.9	0.00	88.54	-	-	0.00	0.00	-
RAH06	7 407	7 408	0	11.50	2.00	13.50	106.9	0.00	88.39	-	-	0.00	0.00	-
RAH07	8 393	8 394	0	10.01	2.00	12.01	106.9	0.00	89.48	-	-	0.00	0.00	-
RAH08	8 879	8 881	0	9.33	2.00	11.33	106.9	0.00	89.97	-	-	0.00	0.00	-
RAH09	8 127	8 128	0	10.40	2.00	12.40	106.9	0.00	89.20	-	-	0.00	0.00	-
RAH10	8 837	8 838	0	9.38	2.00	11.38	106.9	0.00	89.93	-	-	0.00	0.00	-
RAH11	8 446	8 447	0	9.93	2.00	11.93	106.9	0.00	89.53	-	-	0.00	0.00	-
RAH12	9 171	9 172	0	8.93	2.00	10.93	106.9	0.00	90.25	-	-	0.00	0.00	-
RAH13	9 031	9 032	0	9.12	2.00	11.12	106.9	0.00	90.12	-	-	0.00	0.00	-
RAH14	8 375	8 377	0	10.03	2.00	12.03	106.9	0.00	89.46	-	-	0.00	0.00	-
RAH15	9 019	9 020	0	9.14	2.00	11.14	106.9	0.00	90.10	-	-	0.00	0.00	-
RAH16	9 770	9 771	0	8.16	2.00	10.16	106.9	0.00	90.80	-	-	0.00	0.00	-
RAH17	7 773	7 775	0	10.93	2.00	12.93	106.9	0.00	88.81	-	-	0.00	0.00	-
RAH18	8 466	8 468	0	9.90	2.00	11.90	106.9	0.00	89.56	-	-	0.00	0.00	-
RAH19	8 034	8 035	0	10.53	2.00	12.53	106.9	0.00	89.10	-	-	0.00	0.00	-
SIL01	13 576	13 577	0	-0.99	2.00	1.01	108.5	0.00	93.66	-	-	0.00	0.00	-
SIL02	12 880	12 881	0	-0.29	2.00	1.71	108.5	0.00	93.20	-	-	0.00	0.00	-
SIL03	12 110	12 111	0	0.54	2.00	2.54	108.5	0.00	92.66	-	-	0.00	0.00	-
SIL04	12 341	12 341	0	0.29	2.00	2.29	108.5	0.00	92.83	-	-	0.00	0.00	-
SIL05	13 514	13 515	0	-0.93	2.00	1.07	108.5	0.00	93.62	-	-	0.00	0.00	-
SIL06	12 994	12 995	0	-0.40	2.00	1.60	108.5	0.00	93.28	-	-	0.00	0.00	-
SIL07	12 518	12 518	0	0.10	2.00	2.10	108.5	0.00	92.95	-	-	0.00	0.00	-
SIL08	13 027	13 028	0	-0.44	2.00	1.56	108.5	0.00	93.30	-	-	0.00	0.00	-
Sum						36.15								

- Data undefined due to calculation with octave data

DECIBEL - Assumptions for noise calculation

Calculation: Rahkakuru VE1

Noise calculation model:
ISO 9613-2:2024 Finland

Wind speed (at 10 m height):
8.0 m/s

Ground attenuation:
General, Ground factor: 0.4

Meteorological coefficient, C0:
Selected option: Fixed value: 0.0 dB

Type of demand in calculation:
1: WTG noise is compared to demand (DK, DE, SE, NL etc.)

Noise values in calculation:
All noise values are mean values (Lwa) (Normal)

Pure tones:
Pure tones penalty is added to total noise impact at receptors

Noise sensitive area
Height above ground level, when no value in NSA object:
4.0 m; Allow override of model height with height from NSA object

Uncertainty margin:
Uncertainty added to source noise level of the WTGs in the calculation

Deviation from "official" noise demands. Negative is more restrictive, positive is less restrictive.:
0.0 dB(A)

Octave data required
Frequency dependent air absorption

63	125	250	500	1 000	2 000	4 000	8 000
[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]	[dB/km]
0.1	0.4	1.1	2.4	4.1	8.8	26.6	95.0

The air absorption is for a temperature of 10.0 degrees C and 70.0 % humidity.

All coordinates are in
Finish TM ETRS-TM35FIN-ETRS89

WTG: VESTAS V172-7.2 7200 172.0 !O!
Noise: Third octave noise emission EnVentus™ V172-7.2MW 50/60 Hz

Source	Source/Date	Creator	Edited
0128-4336_V00 - Enventus V172-7.2MW Third Octaves.pdf	2024-10-18	USER	2024-10-22 9.42

Received from client 2024-10-17

Status	Hub height	Wind speed	LwA,ref	Uncertainty	Pure tones	Octave data							
						63	125	250	500	1000	2000	4000	8000
	[m]	[m/s]	[dB(A)]	[dB(A)]		[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
From Windcat	166.0	8.0	106.9	2.0	No	90.5	98.2	101.3	101.5	99.8	95.2	87.5	76.8

WTG: VESTAS V126-3.3 GridStreame 3300 126.0 !O!
Noise: V126-3.3/3.45MW Third Octaves according to General Specification

Source	Source/Date	Creator	Edited
0048-2151_V03 - V126-3_3&3_45MW-Third Octaves according to General Specification - 20150827.pdf	2024-10-21	USER	2024-10-29 8.01

Received from client in 2024-10-17

Status	Hub height	Wind speed	LwA,ref	Uncertainty	Pure tones	Octave data							
						63	125	250	500	1000	2000	4000	8000
	[m]	[m/s]	[dB(A)]	[dB(A)]		[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
From Windcat	147.0	8.0	108.5	2.0	No	85.1	92.8	97.4	102.3	104.4	101.5	95.7	81.4

WTG: NORDEX N163/5.X 5900 163.0 !O!
Noise: Third octave sound power levels Nordex N163/5.X

Source	Source/Date	Creator	Edited
13.03b_2014460EN_11_pdf_F008_276a_A17_EN_R11_Third-octave-sound-power-levels_VPC.pdf	2024-12-10	USER	2024-12-10 8.09

Received from client 2024-12-09

Status	Hub height	Wind speed	LwA,ref	Uncertainty	Pure tones	Octave data							
						63	125	250	500	1000	2000	4000	8000
	[m]	[m/s]	[dB(A)]	[dB(A)]		[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]	[dB]
From Windcat	168.0	8.0	107.2	2.0	No	88.9	95.1	98.8	101.4	102.1	99.6	92.0	84.0

DECIBEL - Assumptions for noise calculation

Calculation: Rahkakuru VE1

WTG: NORDEX N163/5.X 5900 163.0 !O!

Noise: Third octave sound power levels Nordex N163/5.X

Source	Source/Date	Creator	Edited
13.03b_2014460EN_11_pdf_F008_276a_A17_EN_R11_Third-octave-sound-power-levels_VPC.pdf	2024-12-10	USER	2024-12-10 8.11
Received from client 2024-12-09			

Status	Hub height [m]	Wind speed [m/s]	LwA,ref [dB(A)]	Uncertainty [dB(A)]	Pure tones	Octave data							
						63 [dB]	125 [dB]	250 [dB]	500 [dB]	1000 [dB]	2000 [dB]	4000 [dB]	8000 [dB]
From Windcat	148.0	8.0	107.2	2.0	No	88.9	95.1	98.8	101.4	102.1	99.6	92.0	84.0

Noise sensitive area: A Noise sensitive point: Finnish normal frequency - User defined (23)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: B Noise sensitive point: Finnish normal frequency - User defined (2)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: C Noise sensitive point: Finnish normal frequency - User defined (5)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: D Noise sensitive point: Finnish normal frequency - User defined (24)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: E Noise sensitive point: Finnish normal frequency - User defined (35)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: F Noise sensitive point: Finnish normal frequency - User defined (1)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

DECIBEL - Assumptions for noise calculation

Calculation: Rahkakuru VE1

Noise sensitive area: G Noise sensitive point: Finnish normal frequency - User defined (4)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: H Noise sensitive point: Finnish normal frequency - User defined (22)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: I Noise sensitive point: Finnish normal frequency - User defined (20)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: J Noise sensitive point: Finnish normal frequency - User defined (3)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: K Noise sensitive point: Finnish normal frequency - User defined (13)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: L Noise sensitive point: Finnish normal frequency - User defined (12)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: M Noise sensitive point: Finnish normal frequency - User defined (42)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: N Noise sensitive point: Finnish normal frequency - User defined (40)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

DECIBEL - Assumptions for noise calculation

Calculation: Rahkakuru VE1

Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

Noise sensitive area: O Noise sensitive point: Finnish normal frequency - User defined (34)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

Noise sensitive area: P Noise sensitive point: Finnish normal frequency - User defined (41)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

Noise sensitive area: Q Noise sensitive point: Finnish normal frequency - User defined (44)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

Noise sensitive area: R Noise sensitive point: Finnish normal frequency - User defined (43)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

Noise sensitive area: S Noise sensitive point: Finnish normal frequency - User defined (49)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

Noise sensitive area: T Noise sensitive point: Finnish normal frequency - User defined (36)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

Noise sensitive area: U Noise sensitive point: Finnish normal frequency - User defined (50)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

DECIBEL - Assumptions for noise calculation

Calculation: Rahkakuru VE1

Noise sensitive area: V Noise sensitive point: Finnish normal frequency - User defined (38)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: W Noise sensitive point: Finnish normal frequency - User defined (6)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: X Noise sensitive point: Finnish normal frequency - User defined (51)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: Y Noise sensitive point: Finnish normal frequency - User defined (10)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: Z Noise sensitive point: Finnish normal frequency - User defined (37)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: AA Noise sensitive point: Finnish normal frequency - User defined (48)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: AB Noise sensitive point: Finnish normal frequency - User defined (29)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: AC Noise sensitive point: Finnish normal frequency - User defined (47)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

DECIBEL - Assumptions for noise calculation

Calculation: Rahkakuru VE1

Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

Noise sensitive area: AD Noise sensitive point: Finnish normal frequency - User defined (45)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

Noise sensitive area: AE Noise sensitive point: Finnish normal frequency - User defined (46)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

Noise sensitive area: AF Noise sensitive point: Finnish normal frequency - User defined (39)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

Noise sensitive area: AG Noise sensitive point: Finnish normal frequency - User defined (11)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

Noise sensitive area: AH Noise sensitive point: Finnish normal frequency - User defined (18)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

Noise sensitive area: AI Noise sensitive point: Finnish normal frequency - User defined (52)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

Noise sensitive area: AJ Noise sensitive point: Finnish normal frequency - User defined (19)

Predefined calculation standard:
Immission height(a.g.l.): Use standard value from calculation model
Uncertainty margin: Use default value from calculation model
No temporal binning
Noise demand: 40.0 dB(A)
No distance demand
Pure tone penalty: 0 dB

DECIBEL - Assumptions for noise calculation

Calculation: Rahkakuru VE1

Noise sensitive area: AK Noise sensitive point: Finnish normal frequency - User defined (9)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: AL Noise sensitive point: Finnish normal frequency - User defined (33)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: AM Noise sensitive point: Finnish normal frequency - User defined (32)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: AN Noise sensitive point: Finnish normal frequency - User defined (30)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: AO Noise sensitive point: Finnish normal frequency - User defined (7)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: AP Noise sensitive point: Finnish normal frequency - User defined (8)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

Noise sensitive area: AQ Noise sensitive point: Finnish normal frequency - User defined (14)

Predefined calculation standard:

Immission height(a.g.l.): Use standard value from calculation model

Uncertainty margin: Use default value from calculation model

No temporal binning

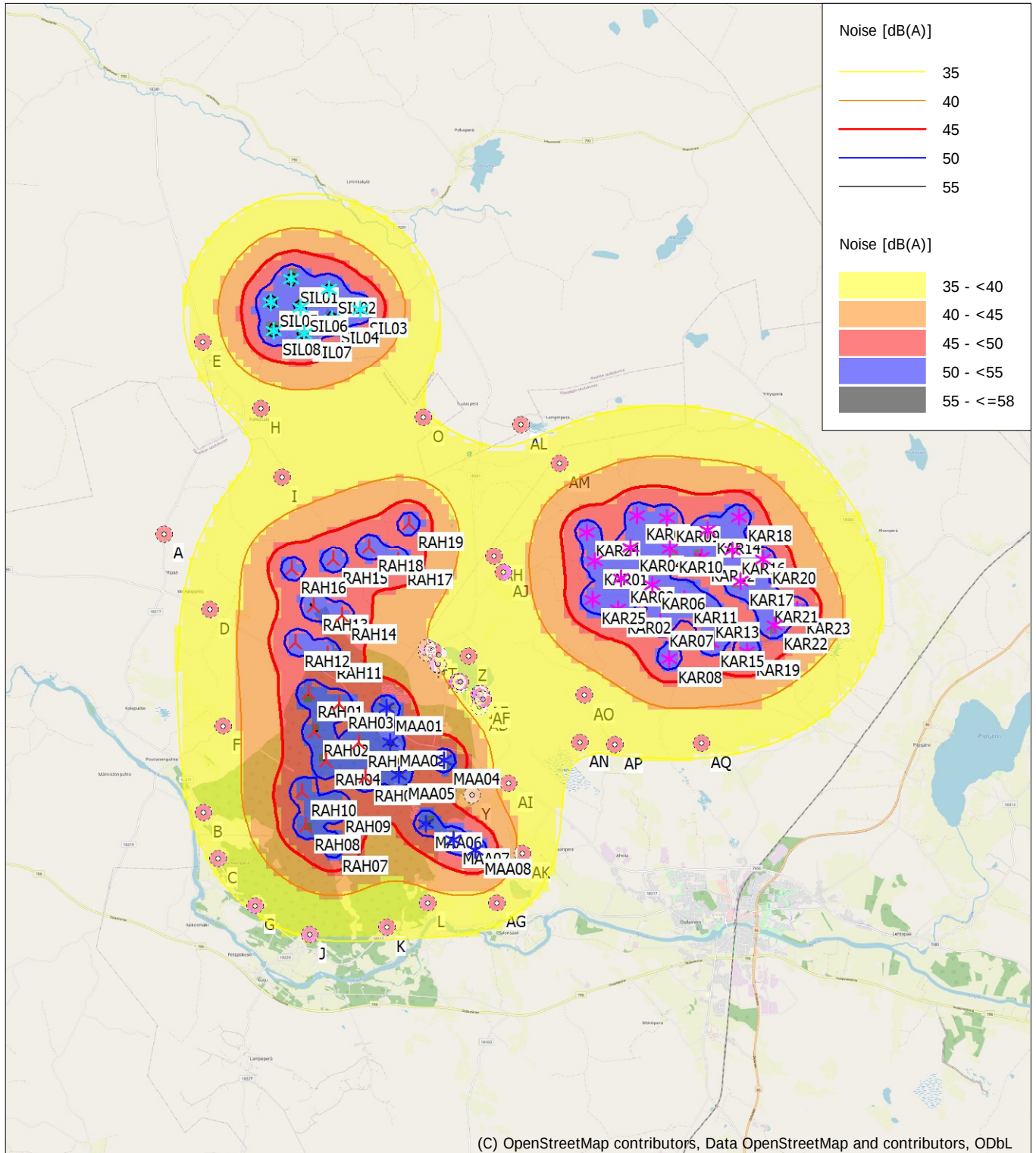
Noise demand: 40.0 dB(A)

No distance demand

Pure tone penalty: 0 dB

DECIBEL - Map 8.0 m/s

Calculation: Rahkakuru VE1



Map: EMD OpenStreetMap, Print scale 1:125 000, Map center Finish TM ETRS-TM35FIN-ETRS89 East: 390 376 North: 7 136 664
New WTG Existing WTG Noise sensitive area
Noise calculation model: ISO 9613-2:2024 Finland. Wind speed: 8.0 m/s
Height above sea level from active line object