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# LAMPIRAN

Lampiran 1. Pengukuran parameter morfologi kanjappang (*Lingula* sp)



Lampiran 2. Preparasi sampel kanjappang (*Lingula* sp)



Lampiran 3. Hasil uji analisis kandungan logam timbel (Pb) pada pedikel kanjappang (*Lingula sp*)



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Gedung Pascasarjana Wing Kimia Lantai Dasar, Kampus IPB Baranangsiang, Jl. Pajajaran Bogor 16129  
Phone 0251-8323571 Website: <https://labterpadu.ipb.ac.id/> Email: labterpadu@ipb.ac.id

FR-20.2-LT-1.0	<b>LABORATORY TEST REPORT</b>	Page 5 of 7
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Certificate No.	: LT-10-24-0355	Sampling Date	: -
Laboratory No.	: BM/III/24/0529	Received Date	: 04-03-2024
Sample Matrix	: Meat	Finish Date	: 21-03-2024
Sample Id	: C1 (2,41-2,8)	Sampling	: Customer
Packaging	: Sealed Plastic		

Parameter*	Result	Unit	Method
Lead, Pb	0.36	mg/Kg	IK.LP-04.11-LT-1.0
Cadmium, Cd	<0.009	mg/Kg	IK.LP-04.11-LT-1.0

REMARKS:  
\*) Outside the Scope of Accreditation  
Laboratory is not responsible for the sampling process

Certificate No.	: LT-10-24-0355	Sampling Date	: -
Laboratory No.	: BM/III/24/0530	Received Date	: 04-03-2024
Sample Matrix	: Meat	Finish Date	: 21-03-2024
Sample Id	: C2 (2,81-3,2)	Sampling	: Customer
Packaging	: Sealed Plastic		

Parameter*	Result	Unit	Method
Lead, Pb	0.38	mg/Kg	IK.LP-04.11-LT-1.0
Cadmium, Cd	<0.009	mg/Kg	IK.LP-04.11-LT-1.0

REMARKS:  
\*) Outside the Scope of Accreditation  
Laboratory is not responsible for the sampling process

March 21, 2024  
Head of Laboratory,

Dr. Mohammad Khotib, M.Si  
NIP. 19781018 200701 1 002



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 Gedung Pascasarjana Wing Kimia Lantai Dasar, Kampus IPB Baranangsiang, Jl. Pajajaran Bogor 16129  
 Phone: 0251-8323571 Website: <https://labterpadu.ipb.ac.id/> Email: labterpadu@apps.ipb.ac.id

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**LABORATORY TEST REPORT**

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Certificate No.	: LT-10-24-0355	Sampling Date	: -
Laboratory No.	: BM/III/24/0531	Received Date	: 04-03-2024
Sample Matrix	: Meat	Finish Date	: 21-03-2024
Sample Id	: C3 (3,21-3,6)	Sampling	: Customer
Packaging	: Sealed Plastic		

Parameter*	Result	Unit	Method
Lead, Pb	0.44	mg/Kg	IKLP-04.11-LT-1.0
Cadmium, Cd	<0.009	mg/Kg	IKLP-04.11-LT-1.0

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 Laboratory is not responsible for the sampling process

Certificate No.	: LT-10-24-0355	Sampling Date	: -
Laboratory No.	: BM/III/24/0532	Received Date	: 04-03-2024
Sample Matrix	: Meat	Finish Date	: 21-03-2024
Sample Id	: D1 (2,41-2,8)	Sampling	: Customer
Packaging	: Sealed Plastic		

Parameter*	Result	Unit	Method
Lead, Pb	0.35	mg/Kg	IKLP-04.11-LT-1.0
Cadmium, Cd	<0.009	mg/Kg	IKLP-04.11-LT-1.0

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Pengaduan tidak akan kami layani setelah 2 (dua) minggu penerbitan sertifikat. Any complain for than 2 (two) weeks after the certificate issue would not be accepted



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 Gedung Pascasarjana Wing Kimia Lantai Dasar, Kampus IPB Baranangsiang, Jl. Pajajaran Bogor 16129  
 Phone 0251-8323571 Website: <https://labterpadu.ipb.ac.id/> Email: [labterpadu@ipb.ac.id](mailto:labterpadu@ipb.ac.id)

FR-20.2-LT-1.0

**LABORATORY TEST REPORT**

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Certificate No.	: LT-10-24-0355	Sampling Date	: -
Laboratory No.	: BM/III/24/0533	Received Date	: 04-03-2024
Sample Matrix	: Meat	Finish Date	: 21-03-2024
Sample Id	: D2 (2,81-3,2)	Sampling	: Customer
Packaging	: Sealed Plastic		

Parameter*	Result	Unit	Method
Lead, Pb	0.25	mg/Kg	IK.LP-04.11-LT-1.0
Cadmium, Cd	<0.009	mg/Kg	IK.LP-04.11-LT-1.0

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 Laboratory is not responsible for the sampling process

Certificate No.	: LT-10-24-0355	Sampling Date	: -
Laboratory No.	: BM/III/24/0533	Received Date	: 04-03-2024
Sample Matrix	: Meat	Finish Date	: 21-03-2024
Sample Id	: D3 (3,21-3,6)	Sampling	: Customer
Packaging	: Sealed Plastic		

Parameter*	Result	Unit	Method
Lead, Pb	0.35	mg/Kg	IK.LP-04.11-LT-1.0
Cadmium, Cd	<0.009	mg/Kg	IK.LP-04.11-LT-1.0

## REMARKS:

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 Head of Laboratory,



 Dr. Mohammad Khotib, M.Si  
 NIP. 19781018 200701 1 002



Lampiran 4. Parameter morfologi kanjappang (*Lingula* sp) ukuran 24-28 mm stasiun 1

No	PT	PC	PP	LC	TC	BT	BD	BP	BC	DK	PK
1	81.34	24.13	57.44	10.99	6.72	1.70	0.42	0.33	0.23	0.04	0.03
2	81.76	24.27	54.82	11.61	5.42	1.42	0.35	0.31	0.22	0.04	0.03
3	78.25	24.44	52.51	11.79	5.38	1.27	0.32	0.35	0.23	0.04	0.04
4	76.16	24.54	49.51	11.31	5.64	1.50	0.54	0.35	0.37	0.04	0.04
5	75.86	24.62	50.43	11.97	4.76	1.25	0.29	0.27	0.29	0.04	0.04
6	70.07	25.04	42.09	9.90	5.50	1.36	0.39	0.33	0.24	0.05	0.04
7	80.46	25.19	55.70	12.90	5.54	1.49	0.38	0.32	0.26	0.05	0.04
8	80.13	25.31	53.97	12.92	5.95	1.63	0.38	0.33	0.25	0.05	0.04
9	91.00	25.34	61.48	13.21	6.61	1.80	0.43	0.42	0.27	0.05	0.04
10	83.85	25.42	61.33	12.00	5.49	1.63	0.70	0.55	0.42	0.05	0.05
11	77.02	26.01	50.74	11.64	5.71	1.55	0.52	0.47	0.44	0.05	0.05
12	82.77	26.15	53.66	12.41	5.34	1.56	0.38	0.38	0.35	0.05	0.05
13	89.86	26.19	63.35	10.56	6.43	2.21	0.36	0.33	0.26	0.05	0.05
14	63.68	26.20	35.34	12.06	5.24	1.45	0.43	0.34	0.31	0.06	0.05
15	66.63	26.22	40.11	11.81	6.93	1.59	0.48	0.24	0.25	0.06	0.05
16	87.12	27.06	60.08	13.05	5.45	1.71	0.40	0.33	0.27	0.06	0.05
17	85.13	27.09	57.05	10.97	5.30	1.69	0.35	0.31	0.35	0.06	0.06
18	75.15	27.16	48.36	12.90	5.89	1.58	0.46	0.35	0.34	0.06	0.06
19	93.13	27.22	66.66	12.03	5.94	1.90	0.46	0.48	0.28	0.07	0.07
20	76.95	27.28	47.06	12.91	5.72	1.94	0.46	0.34	0.32	0.09	0.07

Lampiran 5. Parameter morfologi kanjappang (*Lingula* sp) ukuran 28,1-32 mm stasiun 1

No	PT	PC	PP	LC	TC	BT	BD	BP	BC	DK	PK
21	72.86	28.13	41.76	13.13	6.37	1.79	0.58	0.50	0.36	0.06	0.03
22	71.80	28.14	44.91	13.59	6.63	1.99	0.54	0.25	0.33	0.06	0.05
23	75.66	28.19	48.07	12.78	5.96	1.67	0.53	0.41	0.35	0.06	0.05
24	87.10	28.22	59.32	12.83	7.46	2.34	0.34	0.46	0.27	0.06	0.05
25	82.06	28.30	54.35	13.07	5.12	1.64	0.49	0.41	0.36	0.07	0.06
26	91.63	29.18	60.55	13.92	7.54	3.01	0.63	0.49	0.54	0.07	0.06
27	72.59	29.20	43.13	13.51	6.81	2.13	0.53	0.43	0.32	0.07	0.06
28	80.54	29.26	50.14	13.05	6.29	1.99	0.53	0.47	0.36	0.07	0.07
29	103.82	29.29	75.11	14.33	6.01	2.17	0.52	0.71	0.33	0.07	0.07
30	99.25	29.33	69.05	14.40	6.08	2.16	0.50	0.45	0.34	0.07	0.07
31	92.83	30.00	60.77	15.51	6.28	2.40	0.58	0.54	0.61	0.08	0.07
32	84.40	30.04	52.02	13.59	6.17	2.01	0.54	0.46	0.40	0.08	0.07
33	98.82	30.08	66.83	14.25	7.37	3.13	0.68	0.52	0.46	0.08	0.07
34	98.99	30.68	68.03	14.50	7.36	3.23	0.69	0.75	0.67	0.09	0.08
35	96.35	30.93	62.52	14.79	6.84	2.37	0.49	0.55	0.40	0.09	0.10
36	93.55	30.94	52.41	13.54	6.87	2.36	0.67	0.62	0.38	0.09	0.10
37	77.80	31.04	43.66	15.52	7.29	2.25	0.92	0.71	0.64	0.09	0.11
38	100.82	31.19	70.26	14.15	5.51	2.34	0.63	0.66	0.54	0.09	0.11
39	102.62	31.60	67.77	13.91	8.73	3.71	0.68	0.91	0.64	0.15	0.12
40	100.37	31.74	67.14	15.91	8.56	3.69	0.80	0.83	0.72	0.15	0.13

Lampiran 6. Parameter morfologi kanjappang (*Lingula* sp) ukuran 32,1-36 mm stasiun 1

No	PT	PC	PP	LC	TC	BT	BD	BP	BC	DK	PK
41	94.85	32.15	62.99	15.70	7.21	3.11	0.77	0.87	0.85	0.05	0.05
42	82.41	32.33	53.48	14.59	5.07	1.60	0.42	0.35	0.34	0.05	0.06
43	110.72	32.40	78.24	16.07	6.70	2.96	0.72	0.87	0.63	0.06	0.10
44	102.08	32.43	89.33	15.26	7.95	4.26	0.85	0.82	0.75	0.06	0.10
45	100.43	32.43	65.11	15.97	7.37	2.98	0.90	0.78	0.65	0.09	0.11
46	101.45	32.48	68.41	16.51	8.24	3.70	0.96	0.90	0.64	0.11	0.11
47	117.16	33.02	83.66	14.69	7.67	3.99	0.49	0.42	0.31	0.11	0.11
48	103.93	33.05	69.84	15.75	7.04	3.04	0.87	1.03	0.72	0.11	0.11
49	95.52	33.41	61.23	14.60	7.28	3.02	0.98	0.82	0.70	0.11	0.12
50	96.10	33.63	63.20	16.48	8.52	3.75	1.03	0.74	0.86	0.12	0.13
51	103.83	33.83	69.61	17.79	7.66	3.48	0.86	0.59	0.84	0.12	0.13
52	108.69	34.05	74.05	16.53	9.24	4.47	1.03	1.18	0.98	0.13	0.13
53	106.51	34.15	71.57	17.07	8.51	4.59	1.07	1.18	1.00	0.13	0.13
54	94.53	34.18	61.48	15.99	8.52	3.87	0.94	0.87	0.71	0.13	0.13
55	100.47	34.41	63.78	16.81	9.21	3.94	0.96	0.70	0.64	0.13	0.15
56	117.12	34.91	82.51	16.12	7.60	4.36	0.99	1.27	0.86	0.13	0.15
57	106.14	34.93	71.66	15.76	7.12	3.70	0.89	0.83	0.60	0.14	0.15
58	109.93	35.06	74.29	21.28	8.82	4.45	1.40	1.31	0.87	0.17	0.17
59	95.24	35.07	57.51	17.25	8.25	3.76	1.02	0.82	0.89	0.17	0.17
60	101.12	35.28	65.22	16.43	9.10	4.31	0.93	1.05	0.74	0.20	0.17

Lampiran 7. Parameter morfologi kanjappang (*Lingula* sp) ukuran 24-28 mm stasiun 2

No	PT	PC	PP	LC	TC	BT	BD	BP	BC	DK	PK
1	77.71	24.19	53.57	12.03	5.63	1.41	0.41	0.39	0.22	0.03	0.03
2	85.00	24.92	59.33	14.73	6.51	2.46	0.83	0.66	0.39	0.04	0.05
3	75.20	25.56	51.21	11.28	5.68	1.09	0.31	0.26	0.17	0.04	0.05
4	68.42	25.82	45.03	12.41	5.73	1.22	0.38	0.28	0.19	0.04	0.05
5	86.37	26.06	54.64	12.46	5.67	1.57	0.44	0.37	0.24	0.04	0.05
6	77.91	26.19	53.95	11.94	4.79	0.99	0.24	0.29	0.25	0.04	0.05
7	91.69	26.52	62.50	12.62	5.59	1.83	0.47	0.62	0.30	0.04	0.05
8	84.80	26.59	59.37	10.81	5.94	1.68	0.39	0.39	0.25	0.04	0.05
9	86.44	26.59	62.47	12.70	5.60	1.38	0.40	0.38	0.23	0.05	0.06
10	86.91	26.74	56.04	13.33	6.58	1.94	0.60	0.35	0.30	0.05	0.06
11	84.33	27.01	57.30	12.15	5.50	1.62	0.52	0.40	0.29	0.06	0.06
12	91.54	27.17	64.55	12.31	6.78	2.16	0.53	0.56	0.36	0.06	0.06
13	89.52	27.25	63.78	12.84	6.21	1.87	0.52	0.46	0.29	0.06	0.06
14	107.73	27.32	81.39	12.38	5.34	1.38	0.41	0.38	0.24	0.06	0.07
15	79.97	27.46	53.84	13.12	5.88	1.60	0.42	0.48	0.27	0.06	0.07
16	86.89	27.49	61.72	12.86	5.52	1.76	0.44	0.33	0.25	0.06	0.07
17	100.13	27.60	69.94	14.71	5.85	1.90	0.58	0.44	0.35	0.06	0.07
18	89.64	27.68	60.41	12.21	5.56	1.84	0.52	0.51	0.30	0.07	0.07
19	79.32	27.74	52.52	12.25	6.23	1.54	0.49	0.42	0.28	0.07	0.08
20	87.70	28.00	59.77	14.78	6.69	1.85	0.49	0.43	0.38	0.08	0.09

Lampiran 8. Parameter morfologi kanjappang (*Lingula* sp) ukuran 28,1-32 mm stasiun 2

No	PT	PC	PP	LC	TC	BT	BD	BP	BC	DK	PK
21	82.61	28.11	53.69	13.46	5.50	1.46	0.41	0.37	0.31	0.04	0.03
22	104.19	28.13	75.30	13.33	6.54	2.36	0.53	0.55	0.42	0.05	0.04
23	104.36	28.16	37.55	13.80	5.92	1.96	0.43	0.48	0.33	0.05	0.05
24	81.86	28.29	52.61	13.11	6.14	1.74	0.46	0.48	0.31	0.05	0.06
25	91.62	28.34	62.93	13.63	6.79	2.13	0.59	0.49	0.38	0.06	0.06
26	102.53	29.08	69.72	14.38	6.08	2.16	0.58	0.49	0.35	0.06	0.06
27	87.51	29.31	15.18	13.18	6.35	1.79	0.59	0.44	0.26	0.06	0.06
28	95.36	29.40	66.26	13.57	6.71	2.39	0.67	0.55	0.38	0.06	0.06
29	90.85	29.43	62.98	12.88	5.68	1.62	0.49	0.49	0.25	0.07	0.06
30	96.29	29.60	64.40	14.44	6.38	2.20	0.66	0.56	0.41	0.07	0.06
31	86.68	30.06	54.79	13.80	6.22	1.98	0.61	0.45	0.38	0.07	0.07
32	81.26	30.12	52.79	12.99	5.68	1.59	0.55	0.30	0.26	0.07	0.07
33	102.20	30.15	70.56	13.82	6.60	2.40	0.67	0.54	0.45	0.08	0.07
34	99.83	30.18	69.88	15.08	6.65	2.51	0.66	0.55	0.34	0.09	0.08
35	89.70	30.29	63.69	13.46	5.68	1.80	0.51	0.36	0.34	0.09	0.08
36	91.93	31.01	62.14	14.69	5.74	2.08	0.65	0.54	0.38	0.09	0.08
37	104.11	31.16	71.76	14.89	6.52	2.31	0.73	0.67	0.44	0.09	0.08
38	99.98	31.27	65.96	14.36	6.45	2.50	0.74	0.63	0.42	0.09	0.08
39	97.65	31.31	66.44	14.91	6.77	2.32	0.74	0.56	0.41	0.09	0.09
40	86.11	31.33	54.83	14.32	5.99	1.83	0.58	0.48	0.37	0.10	0.09

Lampiran 9. Parameter morfologi kanjappang (*Lingula* sp) ukuran 32,1-36 mm stasiun 2

No	PT	PC	PP	LC	TC	BT	BD	BP	BC	DK	PK
41	106.14	32.11	74.83	14.22	7.08	2.36	0.69	0.66	0.44	0.07	0.06
42	95.64	32.13	62.32	14.23	7.54	2.89	0.90	0.75	0.43	0.07	0.08
43	105.33	32.15	71.36	15.06	6.96	2.88	0.87	0.90	0.55	0.07	0.09
44	93.67	32.16	62.84	13.90	5.64	2.19	0.54	0.60	0.38	0.07	0.09
45	95.96	32.20	66.47	14.39	7.50	2.78	0.82	0.79	0.45	0.09	0.10
46	88.06	33.00	53.23	14.33	6.74	2.13	0.78	0.51	0.37	0.10	0.10
47	94.63	33.12	63.52	14.64	6.83	2.68	0.80	0.66	0.45	0.10	0.11
48	99.73	33.13	66.18	15.47	6.06	2.80	0.74	0.54	0.39	0.11	0.11
49	97.97	33.18	64.77	14.79	7.24	2.79	0.81	0.70	0.46	0.11	0.11
50	117.63	33.39	78.20	15.79	7.91	3.91	1.13	0.80	0.64	0.11	0.11
51	95.48	34.02	62.80	16.89	6.90	3.21	1.06	0.74	0.62	0.12	0.11
52	97.83	34.07	63.69	15.17	8.38	3.32	1.00	0.77	0.64	0.12	0.12
53	111.18	34.09	77.58	16.29	7.20	3.34	0.91	0.79	0.57	0.12	0.13
54	112.66	34.11	77.97	15.62	7.61	3.25	0.99	0.74	0.46	0.13	0.13
55	102.59	34.25	66.17	15.66	6.76	2.72	0.84	0.81	0.56	0.13	0.13
56	127.03	35.18	91.81	17.11	7.40	3.82	1.04	1.19	0.80	0.13	0.13
57	100.27	35.25	65.35	15.55	7.82	3.47	0.98	0.87	0.64	0.15	0.13
58	106.51	35.34	72.63	15.29	7.92	3.40	0.83	0.75	0.60	0.15	0.15
59	103.38	35.42	69.42	16.69	6.71	2.78	0.94	0.83	0.65	0.15	0.18
60	93.05	35.44	58.64	15.67	7.16	3.05	1.02	0.88	0.60	0.17	0.18

Lampiran 10. Uji normalitas dan homogenitas antara kandungan logam timbel (Pb) pada pedikel kanjappang (*Lingula sp*) stasiun 1 dan stasiun 2

Tests of Normality						
	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
st1	.292	3	.	.923	3	.463
st2	.385	3	.	.750	3	.091

#### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.009	1	.009	3.480	.136
Within Groups	.010	4	.003		
Total	.019	5			

Lampiran 11. Uji normalitas dan homogenitas panjang total kanjappang (*Lingula sp*) stasiun 1 dan stasiun 2

Tests of Normality						
	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
S1	.212	3	.	.990	3	.813
S2	.177	3	.	1.000	3	.970

#### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	18.410	1	18.410	.188	.687
Within Groups	391.809	4	97.952		
Total	410.219	5			

Lampiran 12. Uji normalitas dan homogenitas panjang cangkang kanjappang (*Lingula* sp) stasiun 1 dan stasiun 2

#### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
S1	.176	3	.	1.000	3	.981
S2	.201	3	.	.994	3	.857

#### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.154	1	.154	.011	.922
Within Groups	55.935	4	13.984		
Total	56.088	5			

Lampiran 13. Uji normalitas dan homogenitas panjang pedikel kanjappang (*Lingula* sp) stasiun 1 dan stasiun 2

#### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
S1	.271	3	.	.947	3	.557
S2	.368	3	.	.790	3	.091

#### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8.167	1	8.167	.168	.703
Within Groups	194.880	4	48.720		
Total	203.047	5			



Lampiran 14. Uji normalitas dan homogenitas lebar cangkang kanjappang (*Lingula* sp) stasiun 1 dan stasiun 2

**Tests of Normality**

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ST1	.182	3	.	.999	3	.935
ST2	.189	3	.	.998	3	.908

**ANOVA**

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.019	1	.019	.006	.943
Within Groups	13.096	4	3.274		
Total	13.116	5			

Lampiran 15. Uji normalitas dan homogenitas tinggi cangkang kanjappang (*Lingula* sp) stasiun 1 dan stasiun 2

**Tests of Normality**

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ST1	.178	3	.	1.000	3	.958
ST2	.281	3	.	.937	3	.514

**ANOVA**

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.205	1	.205	.263	.635
Within Groups	3.122	4	.781		
Total	3.327	5			

Lampiran 16. Uji normalitas dan homogenitas bobot total kanjappang (*Lingula* sp) stasiun 1 dan stasiun 2

**Tests of Normality**

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ST1	.223	3	.	.985	3	.766
ST2	.266	3	.	.952	3	.579

**ANOVA**

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.167	1	.167	.215	.667
Within Groups	3.097	4	.774		
Total	3.264	5			

Lampiran 17. Uji normalitas dan homogenitas bobot daging kanjappang (*Lingula* sp) stasiun 1 dan stasiun 2

**Tests of Normality**

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ST1	.250	3	.	.967	3	.652
ST2	.273	3	.	.946	3	.551

**ANOVA**

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.000	1	.000	.001	.973
Within Groups	.203	4	.051		
Total	.203	5			

Lampiran 18. Uji normalitas dan homogenitas bobot pedikel kanjappang (*Lingula* sp) stasiun 1 dan stasiun 2

Tests of Normality						
	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
S1	.223	3	.	.985	3	.763
S2	.299	3	.	.915	3	.433

#### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.002	1	.002	.041	.849
Within Groups	.195	4	.049		
Total	.197	5			

Lampiran 19. Uji normalitas dan homogenitas bobot cangkang kanjappang (*Lingula* sp) stasiun 1 dan stasiun 2

Tests of Normality						
	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ST1	.245	3	.	.970	3	.670
ST2	.265	3	.	.953	3	.583

#### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.015	1	.015	.459	.535
Within Groups	.131	4	.033		
Total	.146	5			

Lampiran 20. Uji normalitas dan homogenitas bobot daging kering kanjappang (*Lingula* sp) stasiun 1 dan stasiun 2

#### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
ST1	.204	3	.	.993	3	.843
ST2	.385	3	.	.750	3	.298

#### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.001	1	.001	.878	.402
Within Groups	.003	4	.001		
Total	.003	5			

Lampiran 21. Uji normalitas dan homogenitas bobot pedikel kering kanjappang (*Lingula* sp) stasiun 1 dan stasiun 2

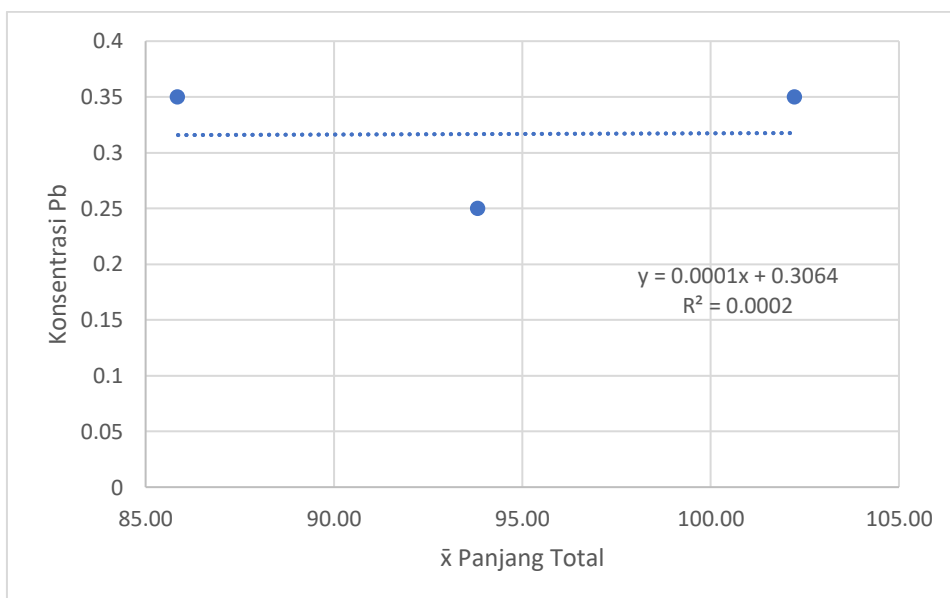
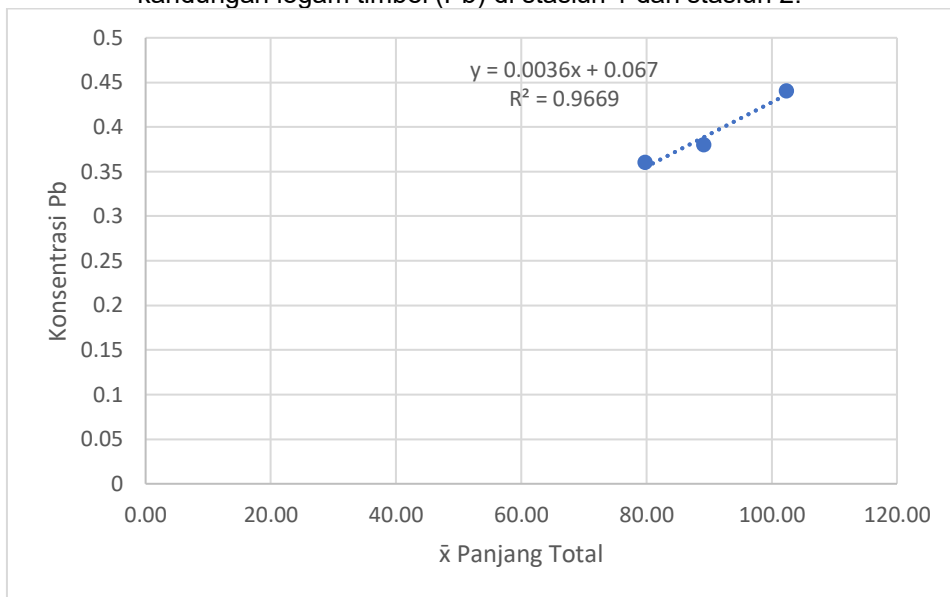
#### Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
S1	.204	3	.	.993	3	.843
S2	.328	3	.	.871	3	.298

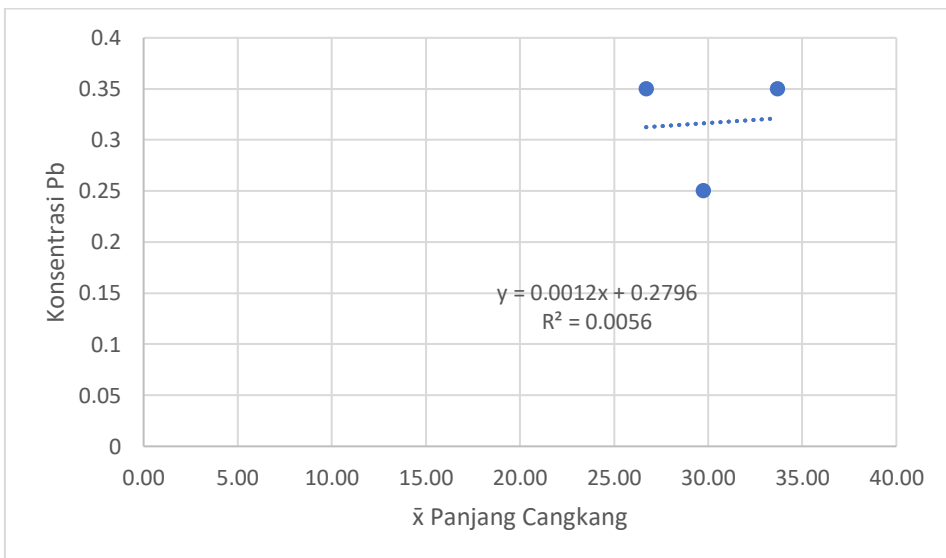
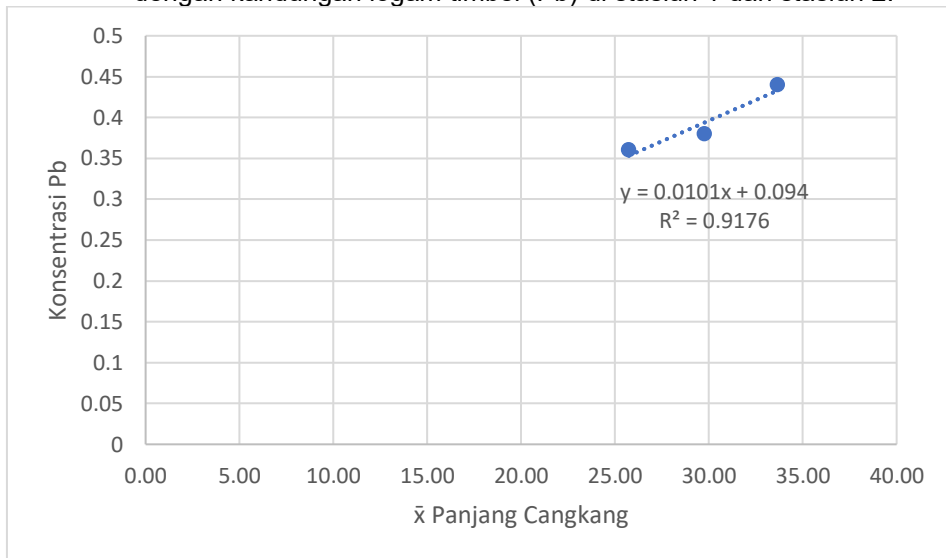
#### ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.000	1	.000	.000	1.000
Within Groups	.005	4	.001		
Total	.005	5			

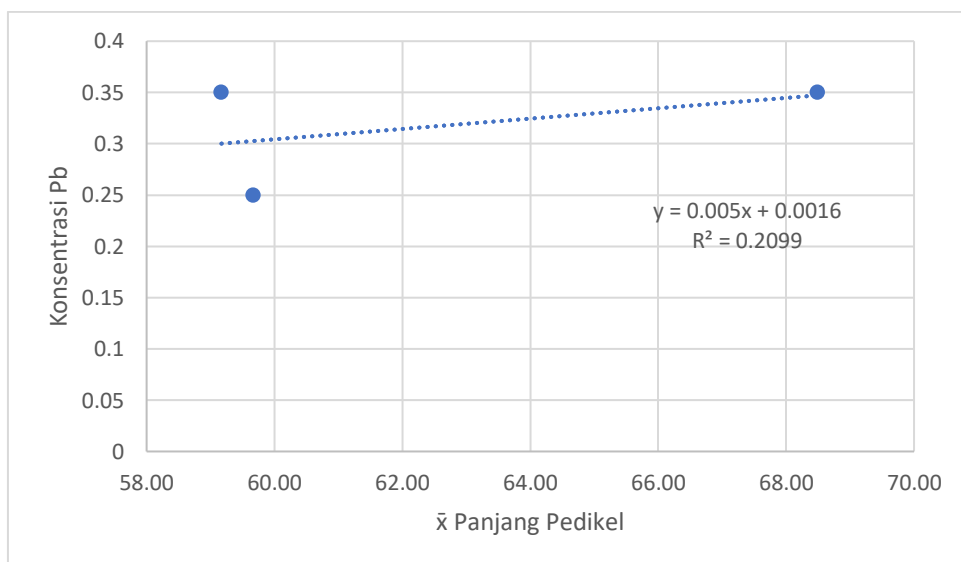
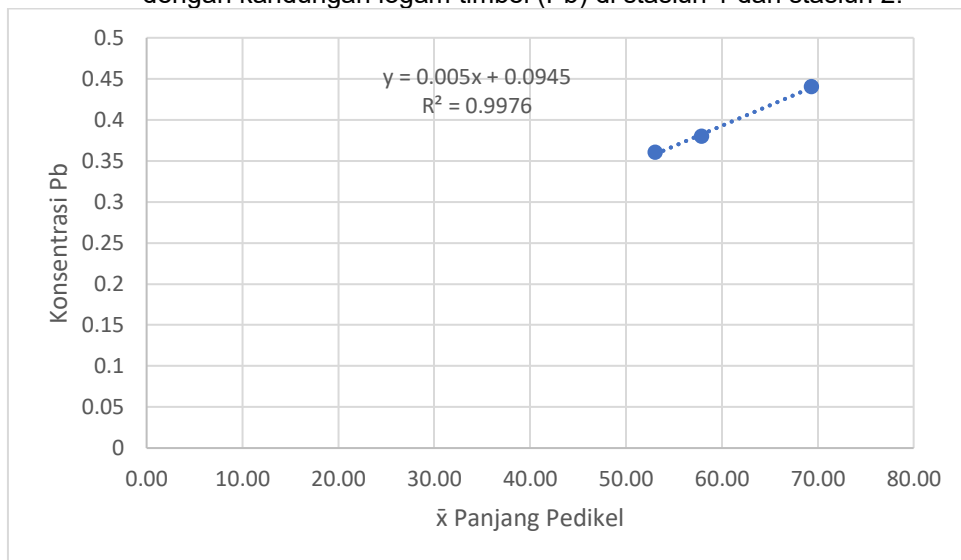
Lampiran 22. Analisis korelasi parameter panjang total kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) di stasiun 1 dan stasiun 2.



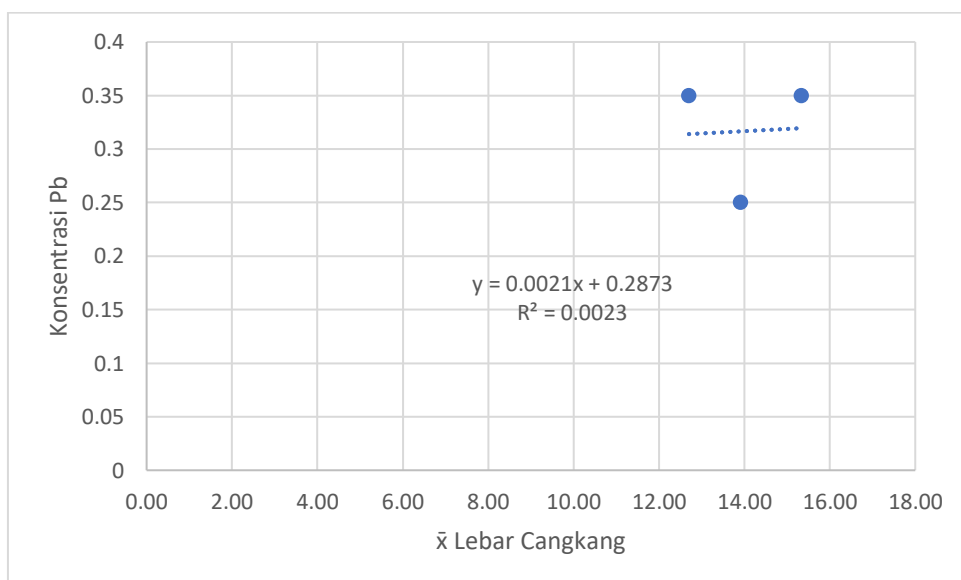
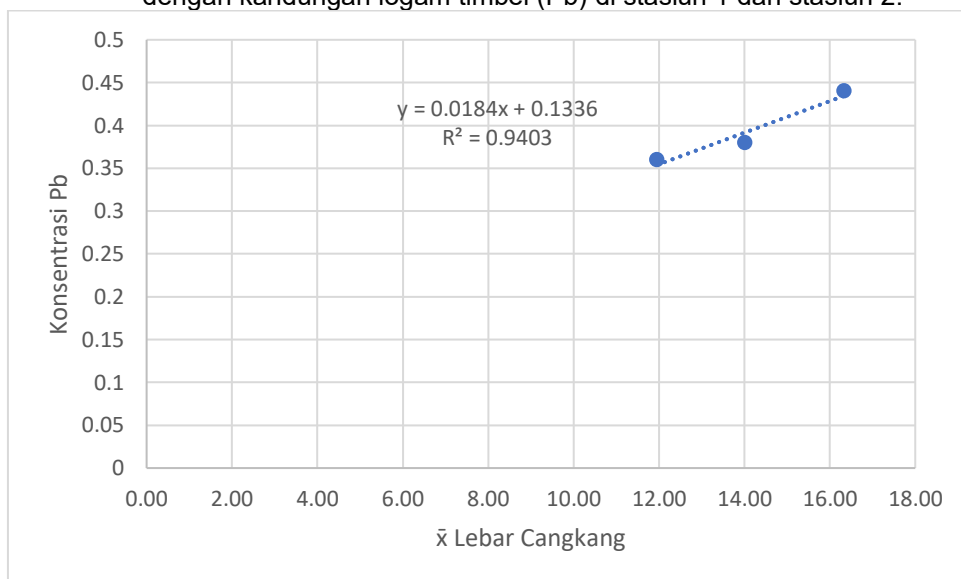
Lampiran 23. Analisis korelasi parameter panjang cangkang kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) di stasiun 1 dan stasiun 2.



Lampiran 24. Analisis korelasi parameter panjang pedikel kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) di stasiun 1 dan stasiun 2.

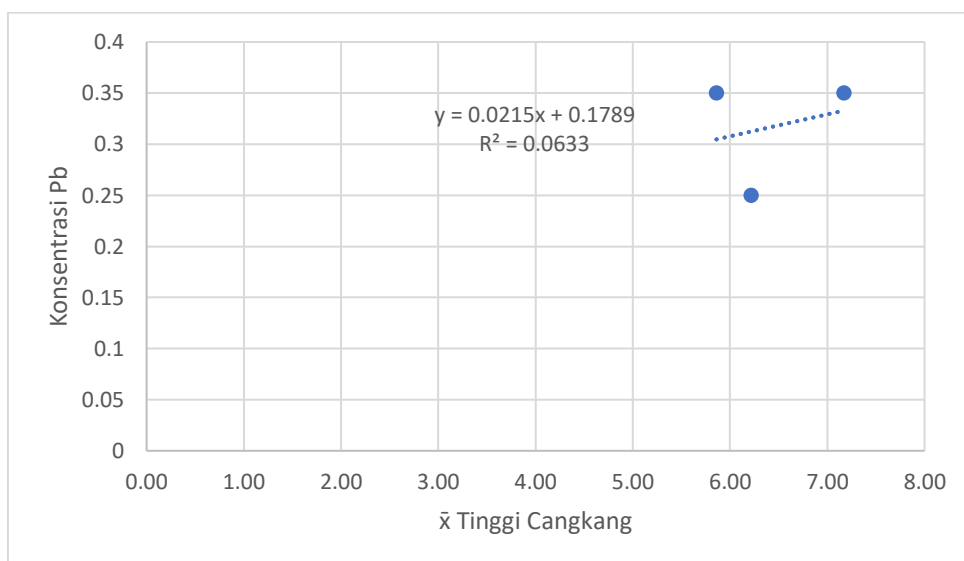
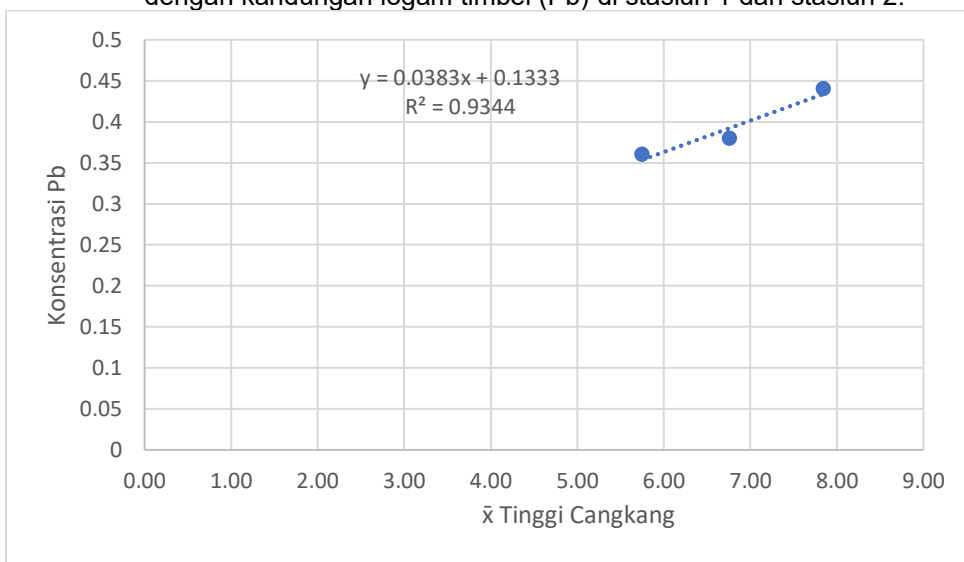


Lampiran 25. Analisis korelasi parameter lebar cangkang kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) di stasiun 1 dan stasiun 2.

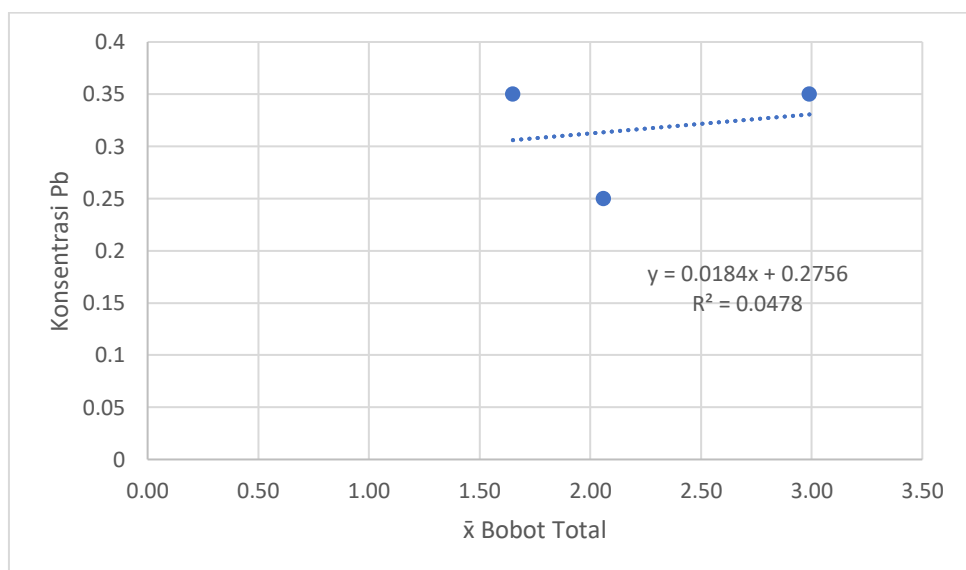
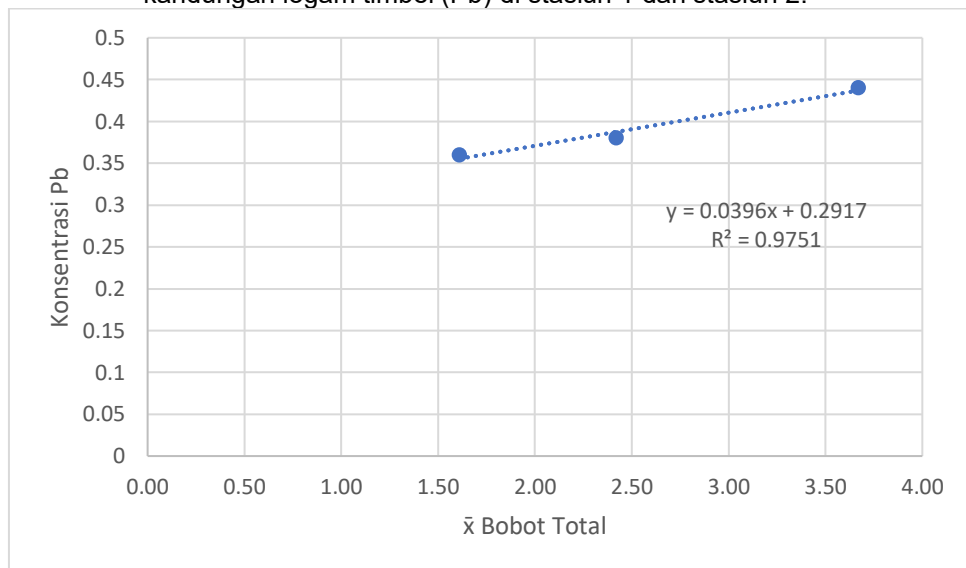




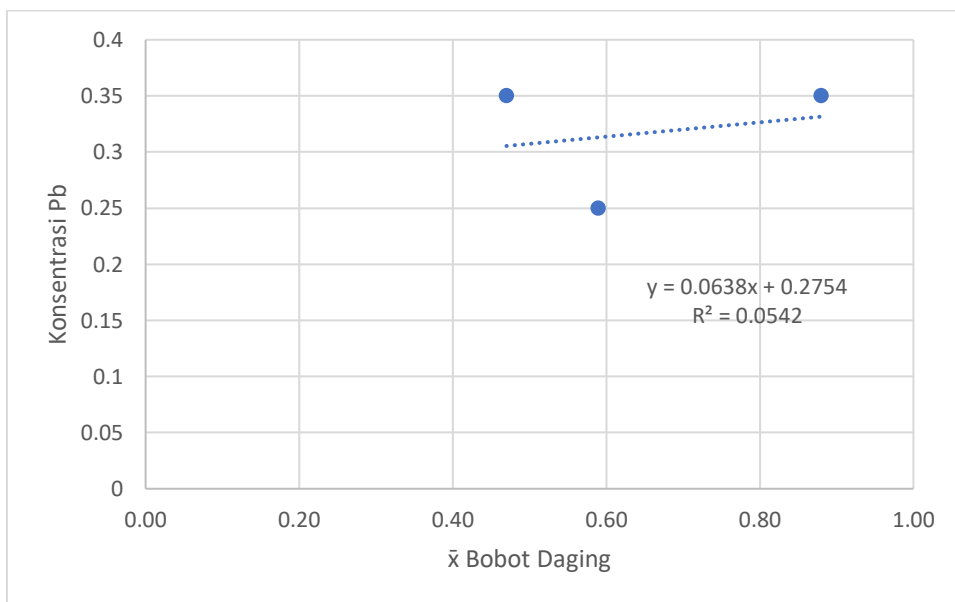
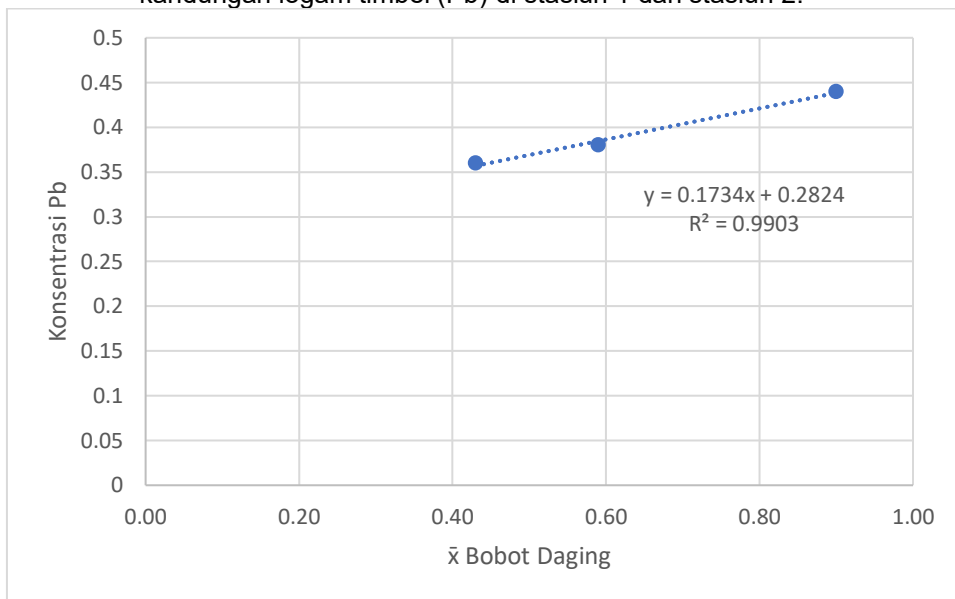
Lampiran 26. Analisis korelasi parameter tinggi cangkang kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) di stasiun 1 dan stasiun 2.



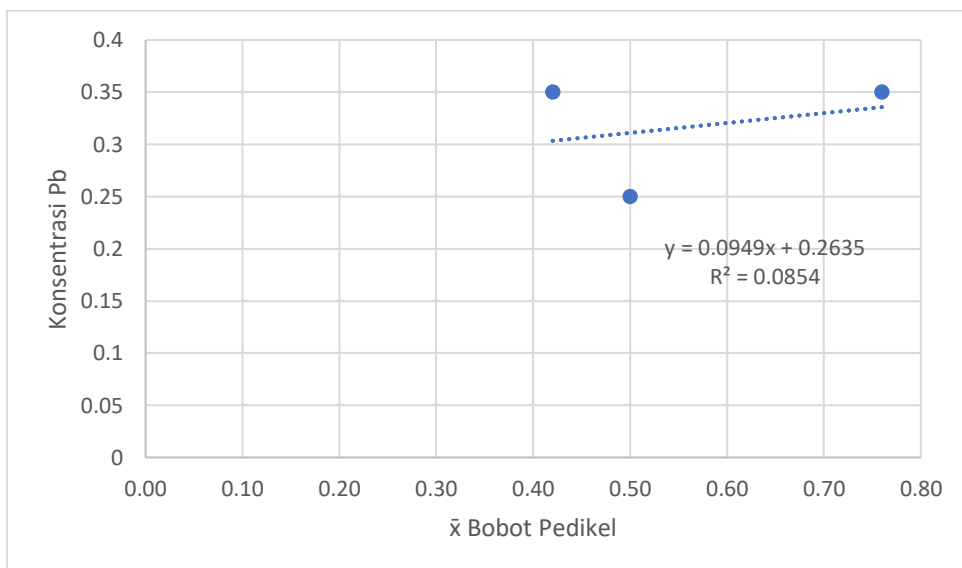
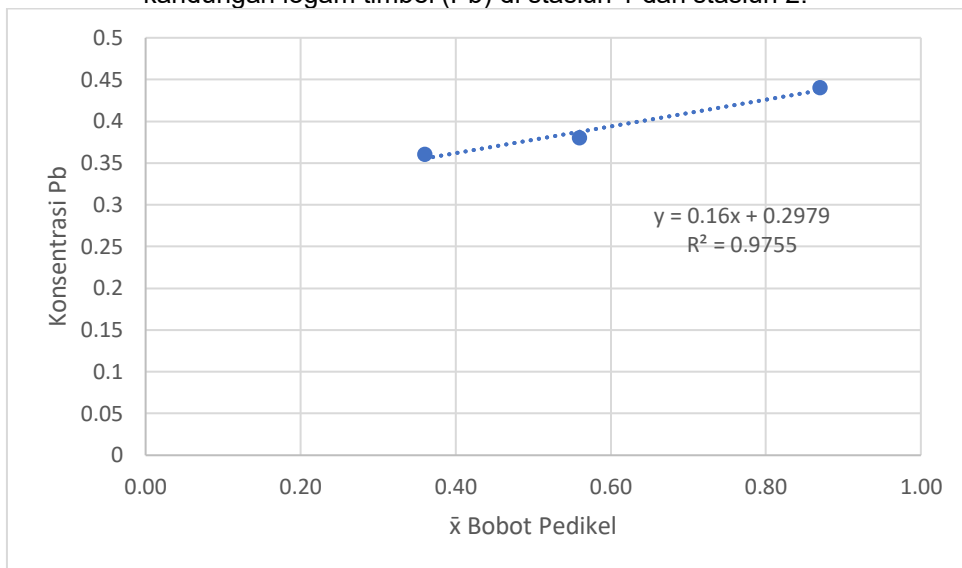
Lampiran 27. Analisis korelasi parameter bobot total kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) di stasiun 1 dan stasiun 2.



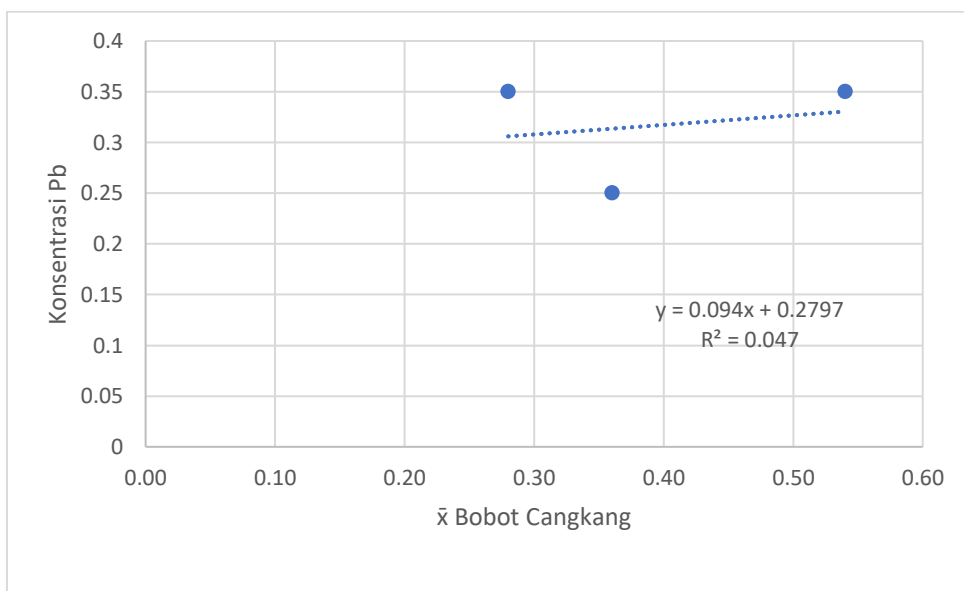
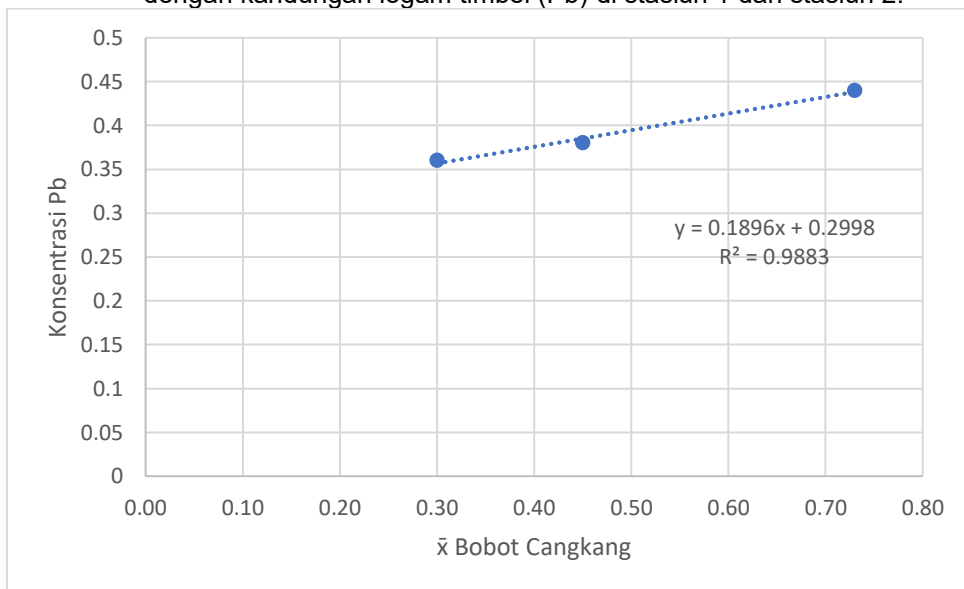
Lampiran 28. Analisis korelasi parameter bobot daging kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) di stasiun 1 dan stasiun 2.



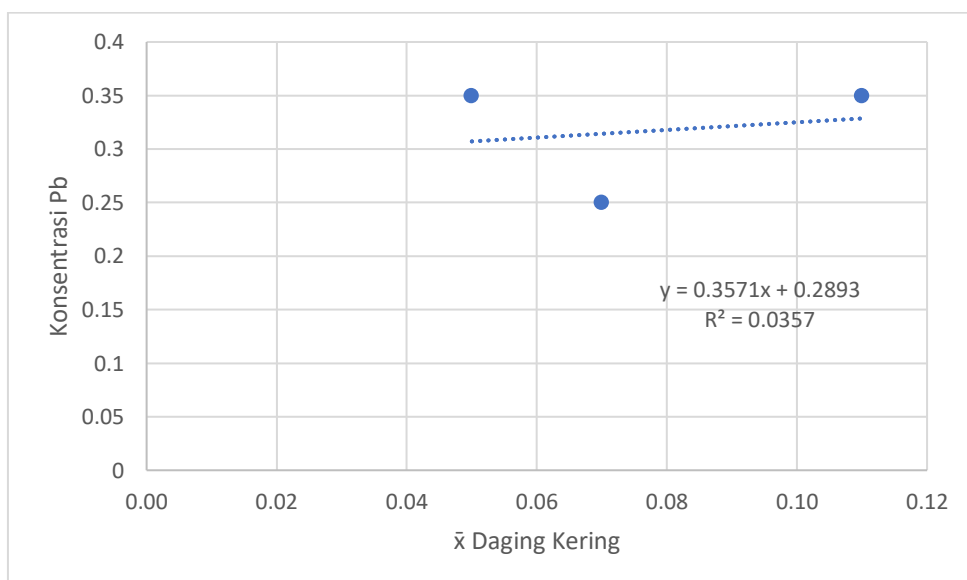
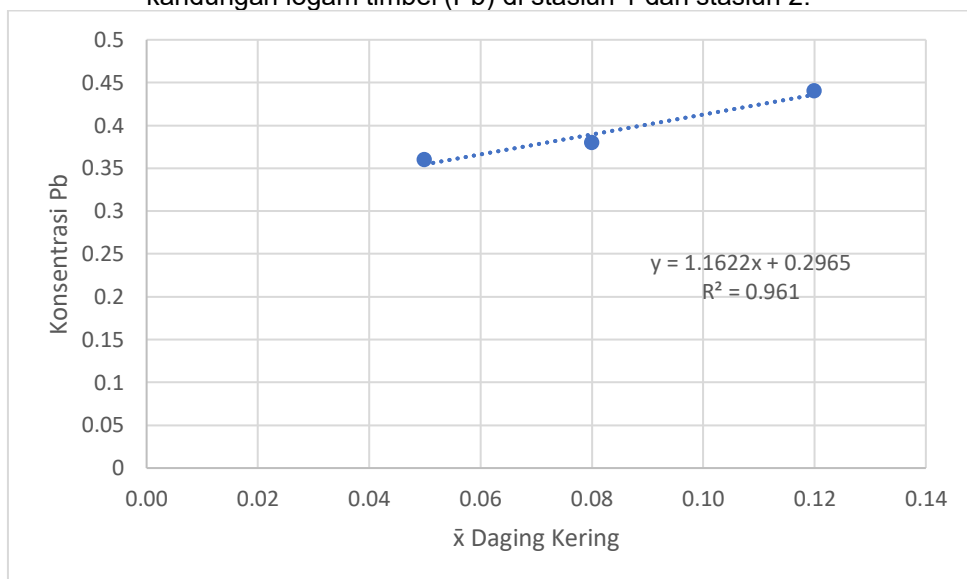
Lampiran 29. Analisis korelasi parameter bobot pedikel kanjampang (*Lingula sp*) dengan kandungan logam timbel (Pb) di stasiun 1 dan stasiun 2.



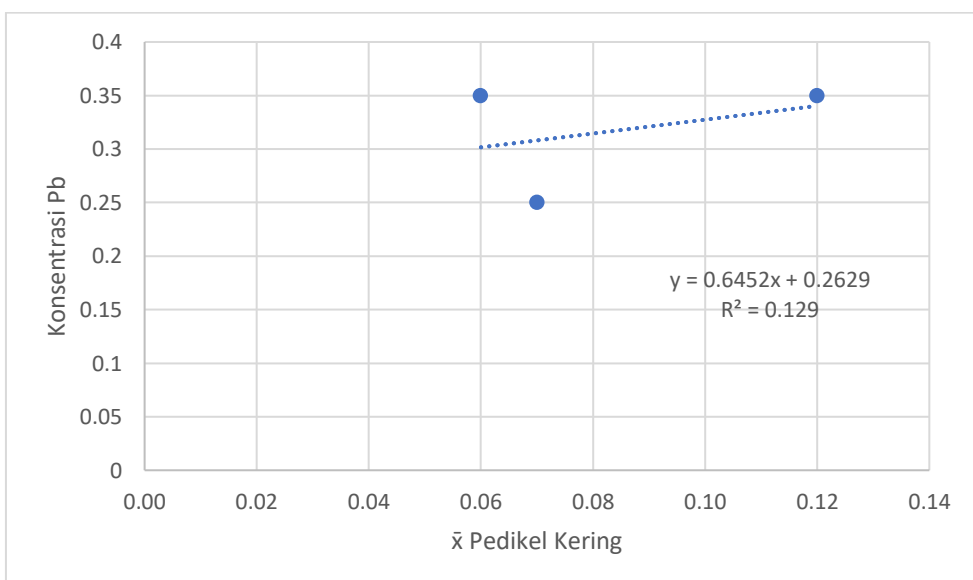
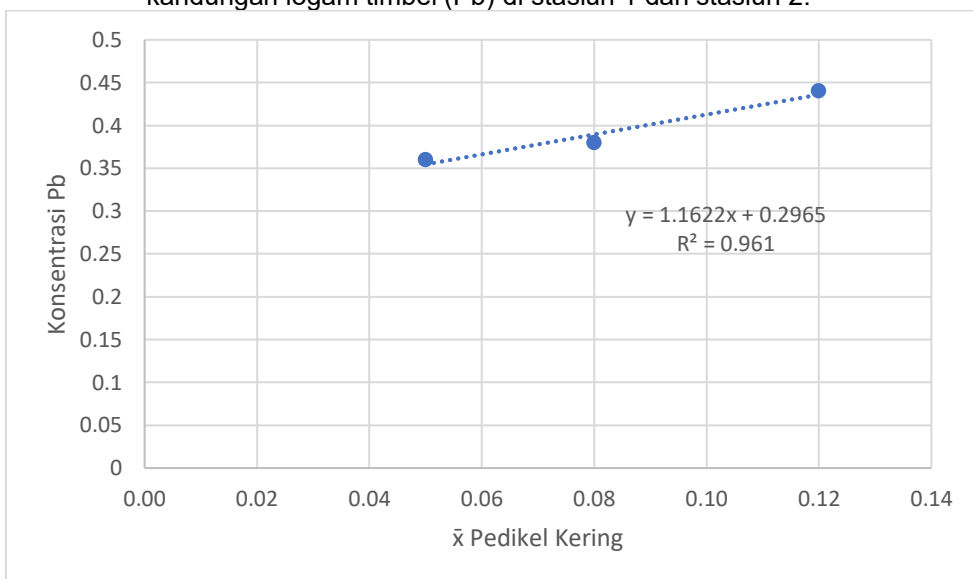
Lampiran 30. Analisis korelasi parameter bobot cangkang kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) di stasiun 1 dan stasiun 2.



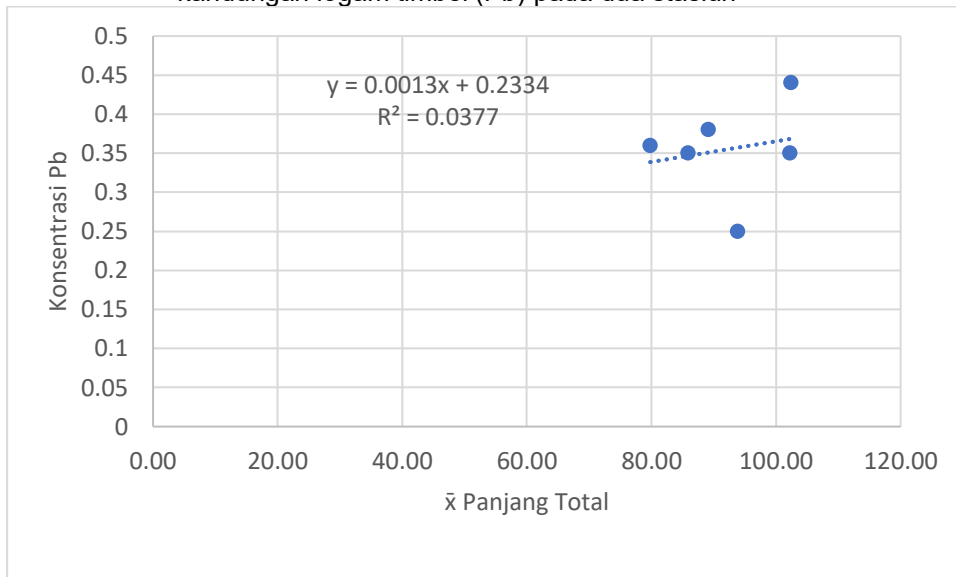
Lampiran 31. Analisis korelasi parameter daging kering kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) di stasiun 1 dan stasiun 2.



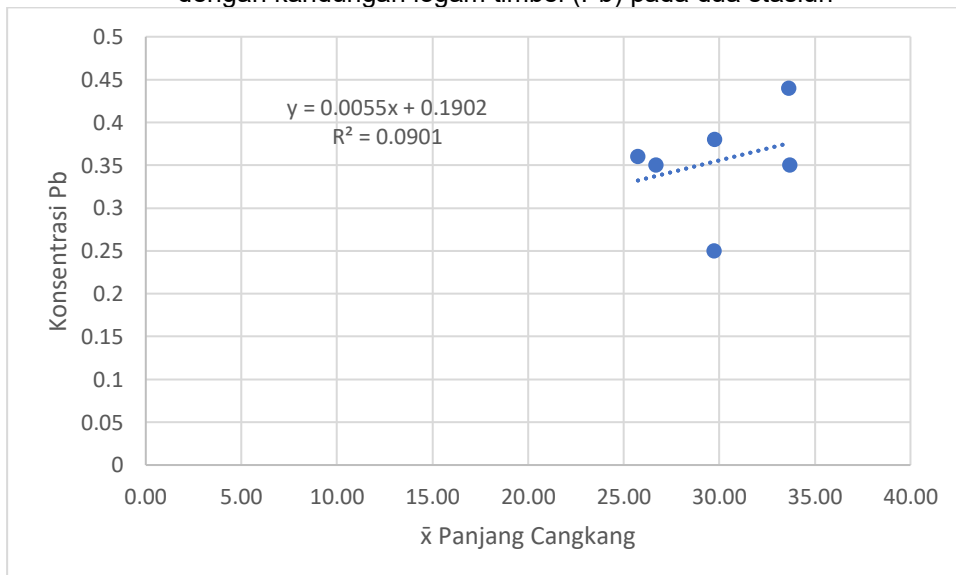
Lampiran 32. Analisis korelasi parameter pedikel kering kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) di stasiun 1 dan stasiun 2.



Lampiran 33. Analisis korelasi parameter panjang total kanjappang (*Lingula sp*) dengan kandungan logam timbel (Pb) pada dua stasiun

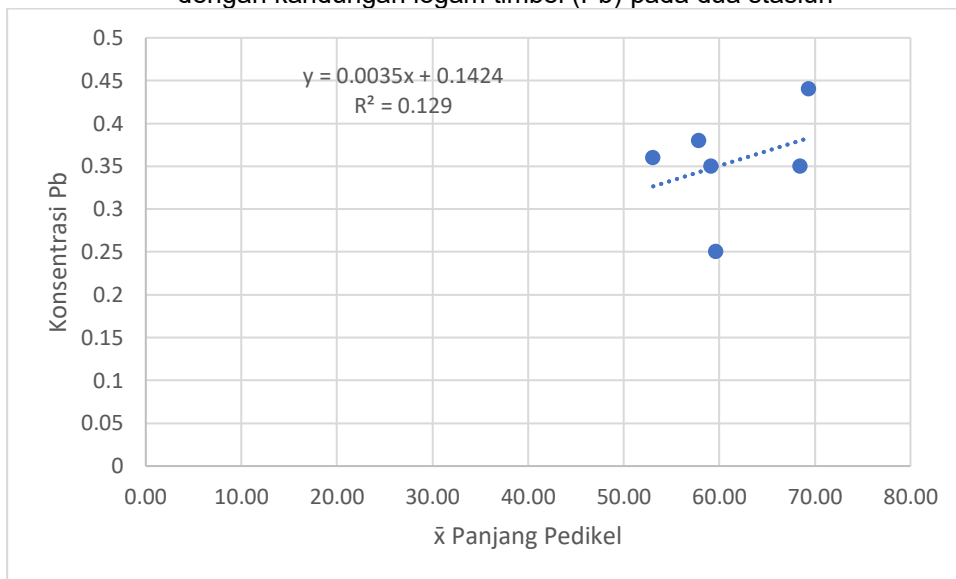


Lampiran 34. Analisis korelasi parameter panjang cangkang kanjappang (*Lingula sp*) dengan kandungan logam timbel (Pb) pada dua stasiun

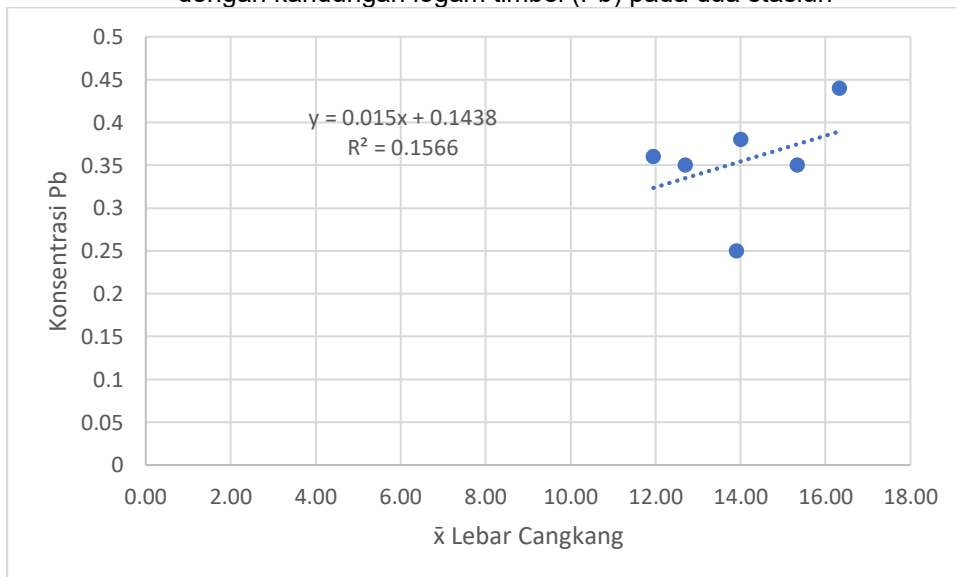




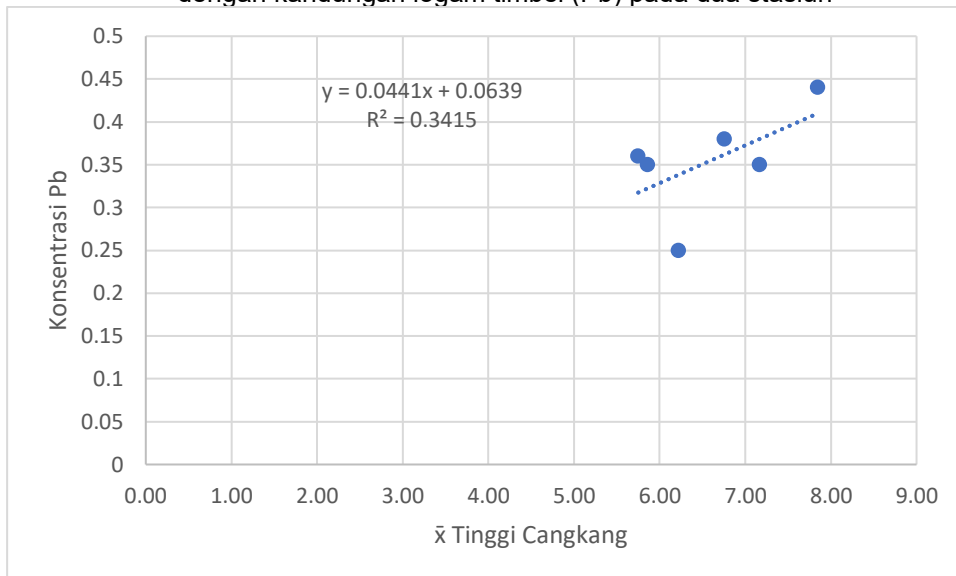
Lampiran 35. Analisis korelasi parameter panjang pedikel kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) pada dua stasiun



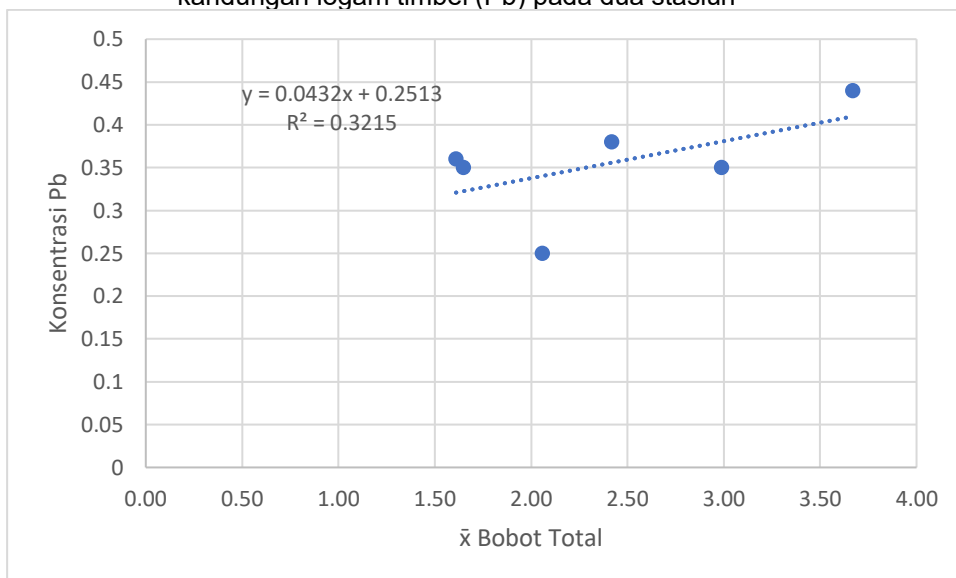
Lampiran 36. Analisis korelasi parameter lebar cangkang kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) pada dua stasiun



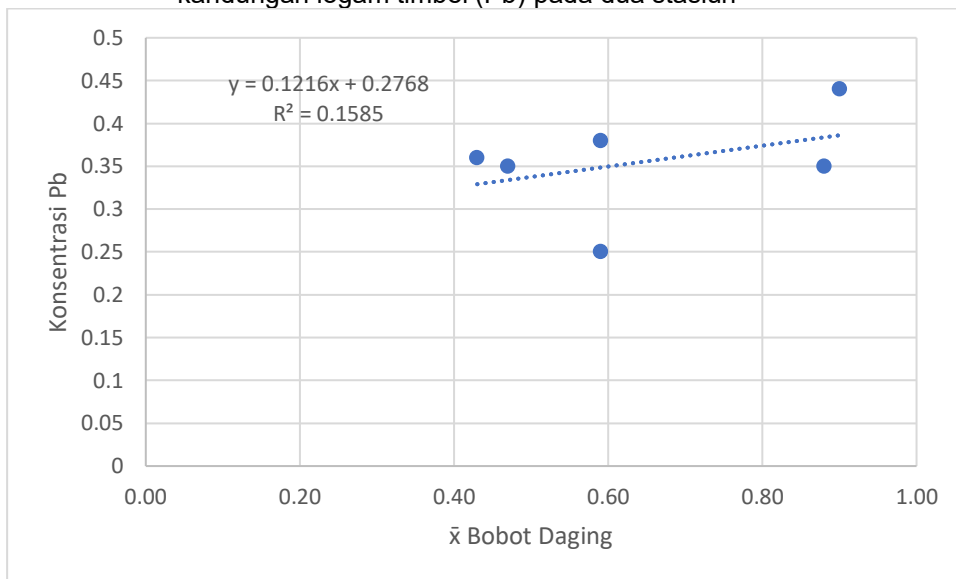
Lampiran 37. Analisis korelasi parameter tinggi cangkang kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) pada dua stasiun



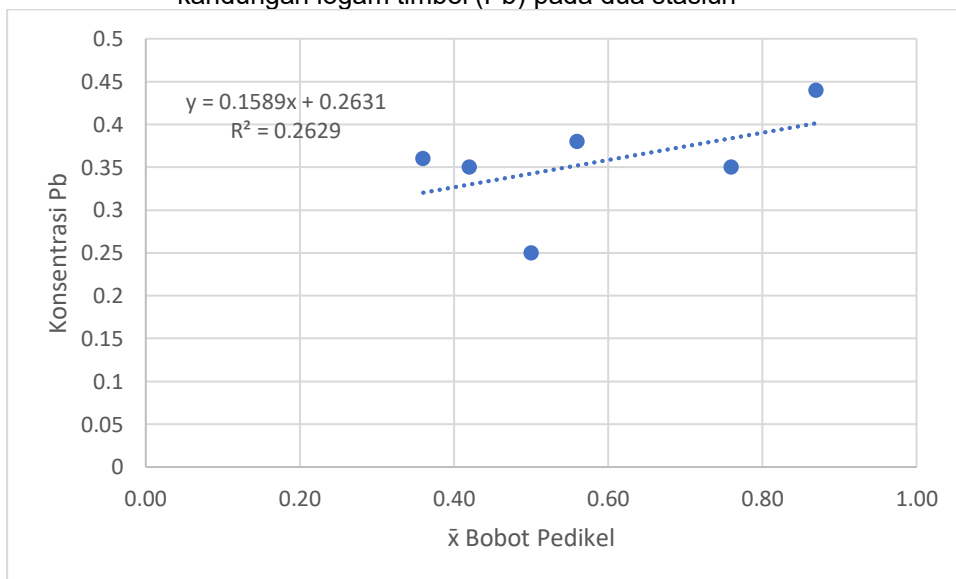
Lampiran 38. Analisis korelasi parameter bobot total kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) pada dua stasiun



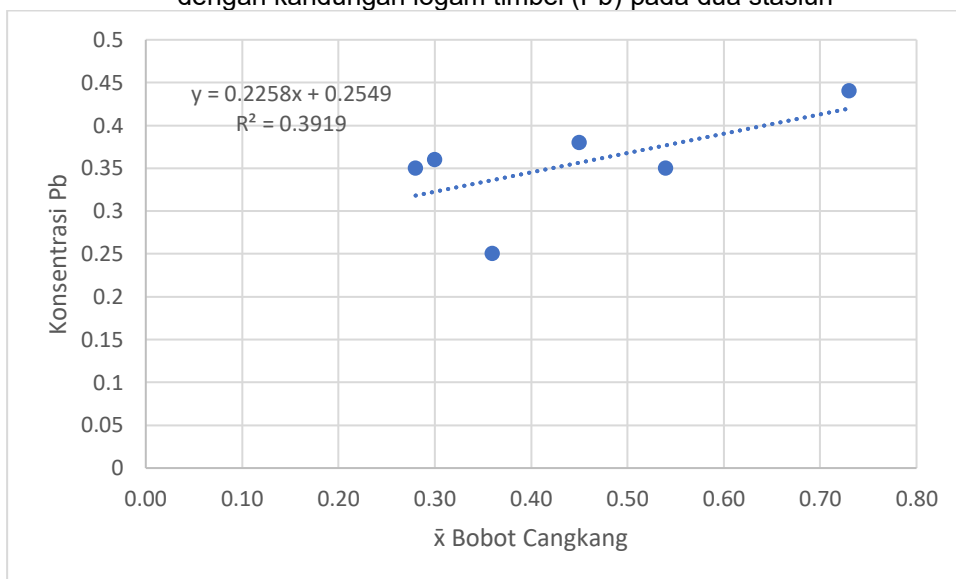
Lampiran 39. Analisis korelasi parameter bobot daging kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) pada dua stasiun



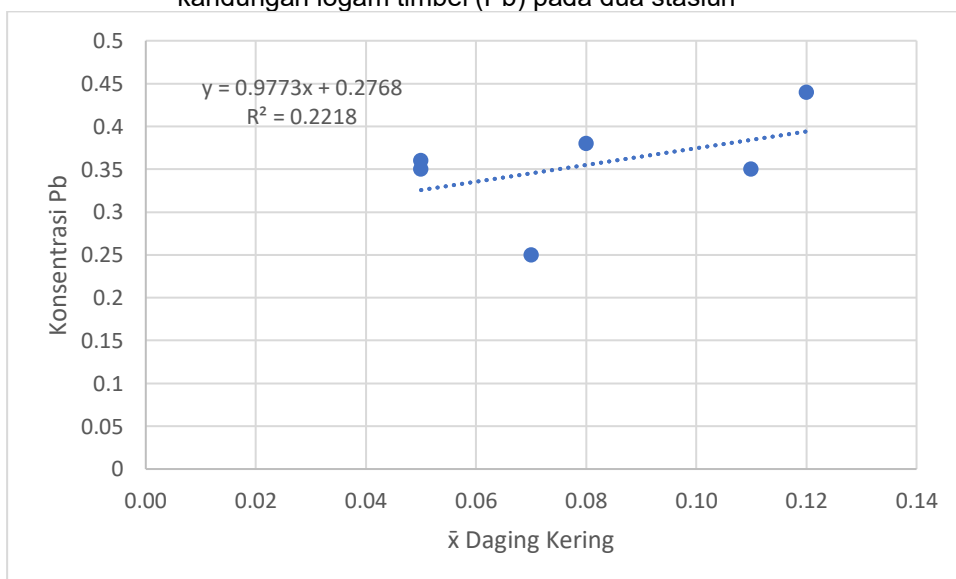
Lampiran 40. Analisis korelasi parameter bobot pedikel kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) pada dua stasiun



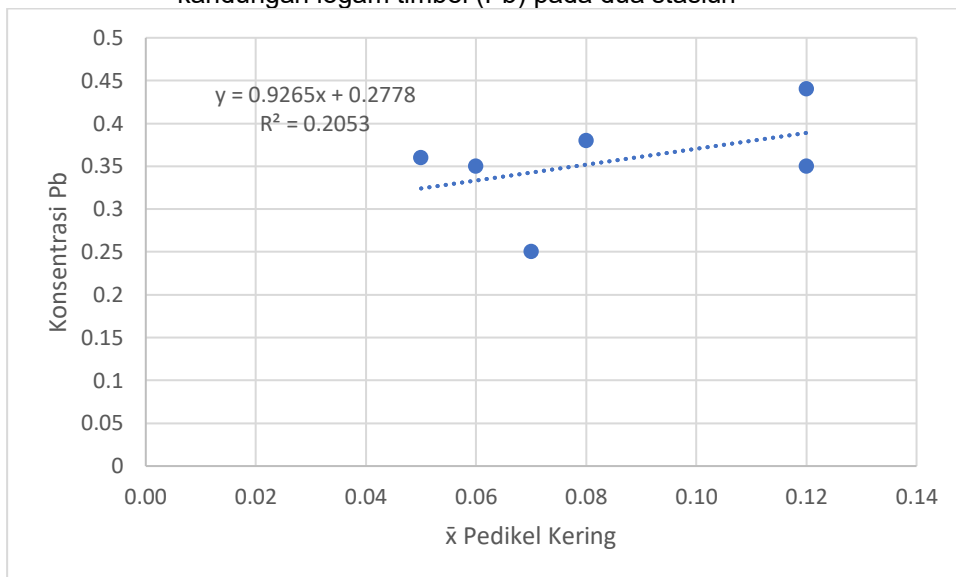
Lampiran 41. Analisis korelasi parameter bobot cangkang kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) pada dua stasiun



Lampiran 42. Analisis korelasi parameter daging kering kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) pada dua stasiun



Lampiran 43. Analisis korelasi parameter pedikel kering kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) pada dua stasiun



Lampiran 44. Uji T-test kandungan logam timbel (Pb) pada pedikel kanjampang (*Lingula* sp) di stasiun 1 dan stasiun 2 menggunakan Graphad Prism 8.0

Table Analyzed	Data 1
Column B	ST 2
vs.	vs.
Column A	ST 1
Unpaired t test	
P value	0.1355
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1.866, df=4
How big is the difference?	
Mean of column A	0.3933
Mean of column B	0.3167
Difference between means (B - A) $\pm$ SEM	-0.07667 $\pm$ 0.04110
95% confidence interval	-0.1908 to 0.03743
R squared (eta squared)	0.4653
F test to compare variances	
F, DFn, Dfd	1.923, 2, 2
P value	0.6842
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3
Sample size, column B	3

Lampiran 45. Analisis korelasi uji *pearson* pada parameter morfologi kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) di stasiun 1

		Correlations											
		S1	PT	PC	PP	LC	TC	BT	BD	BP	BC	DK	PK
S1	Pearson Correlation	1	.983	.958	.999*	.970	.967	.987	.995	.988	.994	.980	.980
	Sig. (2-tailed)		.116	.185	.031	.157	.165	.101	.063	.100	.069	.127	.127
	N	3	3	3	3	3	3	3	3	3	3	3	3
PT	Pearson Correlation	.983	1	.994	.991	.998*	.997*	1.000*	.996	1.000*	.997*	1.000*	1.000*
	Sig. (2-tailed)	.116		.069	.085	.041	.048	.016	.054	.016	.048	.010	.010
	N	3	3	3	3	3	3	3	3	3	3	3	3
PC	Pearson Correlation	.958	.994	1	.971	.999*	.999*	.991	.982	.991	.983	.996	.996
	Sig. (2-tailed)	.185	.069		.154	.028	.020	.085	.122	.085	.117	.059	.059
	N	3	3	3	3	3	3	3	3	3	3	3	3
PP	Pearson Correlation	.999*	.991	.971	1	.981	.978	.994	.999*	.994	.998*	.989	.989
	Sig. (2-tailed)	.031	.085	.154		.126	.134	.070	.032	.069	.038	.095	.095
	N	3	3	3	3	3	3	3	3	3	3	3	3
LC	Pearson Correlation	.970	.998*	.999*	.981	1	1.000**	.996	.989	.996	.990	.999*	.999*

	Sig. (2-tailed)	.157	.041	.028	.126		.008	.056	.094	.057	.088	.031	.031
	N	3	3	3	3	3	3	3	3	3	3	3	3
TC	Pearson Correlation	.967	.997*	.999*	.978	1.000**	1	.995	.987	.995	.989	.998*	.998*
	Sig. (2-tailed)	.165	.048	.020	.134	.008		.064	.102	.065	.096	.038	.038
	N	3	3	3	3	3	3	3	3	3	3	3	3
BT	Pearson Correlation	.987	1.000*	.991	.994	.996	.995	1	.998*	1.000**	.999*	.999*	.999*
	Sig. (2-tailed)	.101	.016	.085	.070	.056	.064		.038	.001	.032	.026	.026
	N	3	3	3	3	3	3	3	3	3	3	3	3
BD	Pearson Correlation	.995	.996	.982	.999*	.989	.987	.998*	1	.998*	1.000**	.995	.995
	Sig. (2-tailed)	.063	.054	.122	.032	.094	.102	.038		.037	.006	.064	.064
	N	3	3	3	3	3	3	3	3	3	3	3	3
BP	Pearson Correlation	.988	1.000*	.991	.994	.996	.995	1.000**	.998*	1	.999*	.999*	.999*
	Sig. (2-tailed)	.100	.016	.085	.069	.057	.065	.001	.037		.031	.026	.026
	N	3	3	3	3	3	3	3	3	3	3	3	3
BC	Pearson Correlation	.994	.997*	.983	.998*	.990	.989	.999*	1.000**	.999*	1	.996	.996
	Sig. (2-tailed)	.069	.048	.117	.038	.088	.096	.032	.006	.031		.058	.058
	N	3	3	3	3	3	3	3	3	3	3	3	3



DK	Pearson Correlation	.980	1.000*	.996	.989	.999*	.998*	.999*	.995	.999*	.996	1	1.000*
	Sig. (2-tailed)	.127	.010	.059	.095	.031	.038	.026	.064	.026	.058		.000
	N	3	3	3	3	3	3	3	3	3	3	3	3
PK	Pearson Correlation	.980	1.000*	.996	.989	.999*	.998*	.999*	.995	.999*	.996	1.000**	1
	Sig. (2-tailed)	.127	.010	.059	.095	.031	.038	.026	.064	.026	.058	.000	
	N	3	3	3	3	3	3	3	3	3	3	3	3

\*. Correlation is significant at the 0.05 level (2-tailed).

\*\*. Correlation is significant at the 0.01 level (2-tailed).

Lampiran 46. Analisis korelasi uji *pearson dan kendalss- tau b* pada parameter morfologi kanjappang (*Lingula sp*) dengan kandungan logam timbel (Pb) di stasiun 2

		Correlations									
		S2	PT	PC	LC	TC	BT	BD	BP	BC	PK
S2	Pearson Correlation	1	.016	.075	.048	.252	.219	.233	.292	.217	.359
	Sig. (2-tailed)		.990	.952	.969	.838	.860	.850	.811	.861	.766
	N	3	3	3	3	3	3	3	3	3	3
PT	Pearson Correlation	.016	1	.998*	.999*	.972	.979	.976	.961	.979	.939
	Sig. (2-tailed)	.990		.038	.021	.152	.130	.140	.179	.129	.224
	N	3	3	3	3	3	3	3	3	3	3
PC	Pearson Correlation	.075	.998*	1	1.000*	.984	.989	.987	.976	.990	.958
	Sig. (2-tailed)	.952	.038		.017	.114	.093	.102	.141	.091	.186
	N	3	3	3	3	3	3	3	3	3	3
LC	Pearson Correlation	.048	.999*	1.000*	1	.979	.985	.983	.969	.986	.949
	Sig. (2-tailed)	.969	.021	.017		.131	.110	.119	.158	.109	.203
	N	3	3	3	3	3	3	3	3	3	3
TC	Pearson Correlation	.252	.972	.984	.979	1	.999*	1.000*	.999*	.999*	.994
	Sig. (2-tailed)	.838	.152	.114	.131		.022	.012	.027	.023	.072
	N	3	3	3	3	3	3	3	3	3	3

BT	Pearson Correlation	.219	.979	.989	.985	.999*	1	1.000**	.997*	1.000**	.989
	Sig. (2-tailed)	.860	.130	.093	.110	.022		.009	.049	.001	.094
	N	3	3	3	3	3	3	3	3	3	3
BD	Pearson Correlation	.233	.976	.987	.983	1.000*	1.000**	1	.998*	1.000*	.991
	Sig. (2-tailed)	.850	.140	.102	.119	.012	.009		.039	.010	.084
	N	3	3	3	3	3	3	3	3	3	3
BP	Pearson Correlation	.292	.961	.976	.969	.999*	.997*	.998*	1	.997*	.997*
	Sig. (2-tailed)	.811	.179	.141	.158	.027	.049	.039		.050	.045
	N	3	3	3	3	3	3	3	3	3	3
BC	Pearson Correlation	.217	.979	.990	.986	.999*	1.000**	1.000*	.997*	1	.989
	Sig. (2-tailed)	.861	.129	.091	.109	.023	.001	.010	.050		.095
	N	3	3	3	3	3	3	3	3	3	3
PK	Pearson Correlation	.359	.939	.958	.949	.994	.989	.991	.997*	.989	1
	Sig. (2-tailed)	.766	.224	.186	.203	.072	.094	.084	.045	.095	
	N	3	3	3	3	3	3	3	3	3	3

\*. Correlation is significant at the 0.05 level (2-tailed).

\*\* . Correlation is significant at the 0.01 level (2-tailed).

**Correlations**

			S2	DK
Kendall's tau_b	S2	Correlation Coefficient	1.000	.618
		Sig. (2-tailed)	.	1.000
		N	3	3
DK	DK	Correlation Coefficient	.618	1.000
		Sig. (2-tailed)	1.000	.
		N	3	3

Lampiran 47. Analisis korelasi uji *pearson* pada parameter morfologi kanjappang (*Lingula* sp) dengan kandungan logam timbel (Pb) pada dua stasiun.

		Correlations											
		Pb	PT	PC	PP	LC	TC	BT	BD	BP	BC	DK	PK
LogamPb	Pearson Correlation	1	.194	.300	.359	.396	.584	.567	.398	.513	.626	.471	.453
	Sig. (2-tailed)		.713	.563	.484	.437	.223	.241	.434	.298	.184	.346	.367
	N	6	6	6	6	6	6	6	6	6	6	6	6
PT	Pearson Correlation	.194	1	.978**	.961**	.964**	.882*	.897*	.965**	.938**	.847*	.934**	.947**
	Sig. (2-tailed)	.713		.001	.002	.002	.020	.015	.002	.006	.033	.006	.004
	N	6	6	6	6	6	6	6	6	6	6	6	6
PC	Pearson Correlation	.300	.978**	1	.930**	.979**	.937**	.942**	.983**	.967**	.901*	.979**	.977**
	Sig. (2-tailed)	.563	.001		.007	.001	.006	.005	.000	.002	.014	.001	.001
	N	6	6	6	6	6	6	6	6	6	6	6	6
PP	Pearson Correlation	.359	.961**	.930**	1	.933**	.878*	.896*	.959**	.945**	.854*	.915*	.955**
	Sig. (2-tailed)	.484	.002	.007		.007	.022	.016	.002	.005	.030	.011	.003
	N	6	6	6	6	6	6	6	6	6	6	6	6
LC	Pearson Correlation	.396	.964**	.979**	.933**	1	.971**	.974**	.969**	.984**	.948**	.977**	.961**
	Sig. (2-tailed)	.437	.002	.001	.007		.001	.001	.001	.000	.004	.001	.002

	N	6	6	6	6	6	6	6	6	6	6	6	
TC	Pearson Correlation	.584	.882*	.937**	.878*	.971**	1	.996**	.945**	.985**	.989**	.980**	.952**
	Sig. (2-tailed)	.223	.020	.006	.022	.001		.000	.004	.000	.000	.001	.003
	N	6	6	6	6	6	6	6	6	6	6	6	6
BT	Pearson Correlation	.567	.897*	.942**	.896*	.974**	.996**	1	.959**	.991**	.994**	.986**	.958**
	Sig. (2-tailed)	.241	.015	.005	.016	.001	.000		.002	.000	.000	.000	.003
	N	6	6	6	6	6	6	6	6	6	6	6	6
BD	Pearson Correlation	.398	.965**	.983**	.959**	.969**	.945**	.959**	1	.984**	.927**	.987**	.993**
	Sig. (2-tailed)	.434	.002	.000	.002	.001	.004	.002		.000	.008	.000	.000
	N	6	6	6	6	6	6	6	6	6	6	6	6
BP	Pearson Correlation	.513	.938**	.967**	.945**	.984**	.985**	.991**	.984**	1	.972**	.991**	.984**
	Sig. (2-tailed)	.298	.006	.002	.005	.000	.000	.000	.000		.001	.000	.000
	N	6	6	6	6	6	6	6	6	6	6	6	6
BC	Pearson Correlation	.626	.847*	.901*	.854*	.948**	.989**	.994**	.927**	.972**	1	.964**	.923**
	Sig. (2-tailed)	.184	.033	.014	.030	.004	.000	.000	.008	.001		.002	.009
	N	6	6	6	6	6	6	6	6	6	6	6	6
DK	Pearson Correlation	.471	.934**	.979**	.915*	.977**	.980**	.986**	.987**	.991**	.964**	1	.985**

	Sig. (2-tailed)	.346	.006	.001	.011	.001	.001	.000	.000	.000	.002		.000
	N	6	6	6	6	6	6	6	6	6	6	6	6
PK	Pearson Correlation	.453	.947**	.977**	.955**	.961**	.952**	.958**	.993**	.984**	.923**	.985**	1
	Sig. (2-tailed)	.367	.004	.001	.003	.002	.003	.003	.000	.000	.009	.000	
	N	6	6	6	6	6	6	6	6	6	6	6	6

\*\* . Correlation is significant at the 0.01 level (2-tailed).

\* . Correlation is significant at the 0.05 level (2-tailed).

## ***CURRICULUM VITAE***

### **A. Data Pribadi**

1. Nama : Ushwatun Hasana Almi
2. Tempat, tgl lahir : Sengkang, 10 Oktober 2001
3. Alamat : Jl. Sentosa No 3, Kec. Tanasitolo, Kab. Wajo
4. Kewarganegaraan : Indonesia

### **B. Riwayat Pendidikan**

1. SDN 213 Lapongkoda (2008-2014)
2. MTs As'adiyah Puteri 1 Pusat Sengkang (2014-2017)
3. SMA Negeri 3 Wajo (2017-2020)
4. Universitas Hasanuddin (2020-2024)