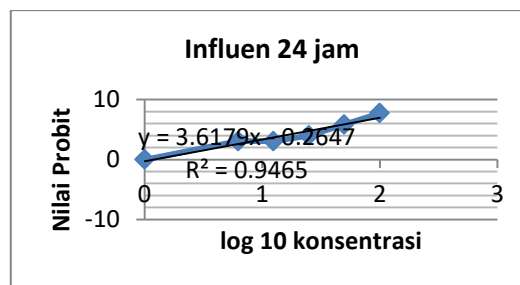


## Lampiran 6 Perhitungan LC<sub>50</sub>

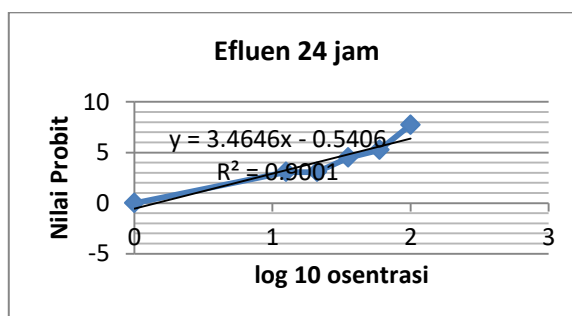
### 1. PROBIT

#### 1.1. IPAL DOKARAN

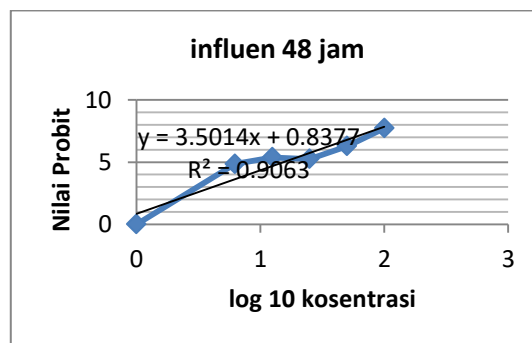
Nilai Probit 24 jam Influen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0.00	0	20	0	0	0	0
6.25	0.80	20	3	15	15	3.06
12.50	1.10	20	3	15	15	3.06
25.00	1.40	20	7	35	35	4.01
50.00	1.70	20	16	80	80	5.84
100.00	2	20	20	100	100	7.73



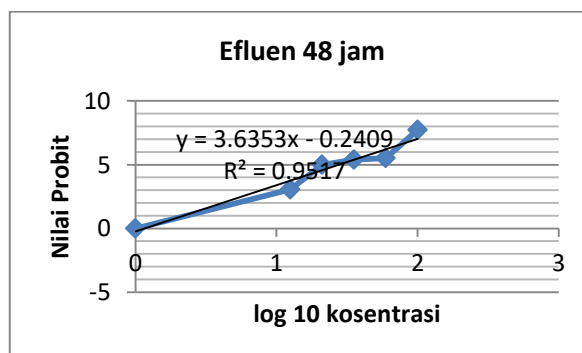
Nilai Probit 24 jam Efluen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	0	0	0	0
12.5	1.10	20	3	15	15	3.06
21.02	1.32	20	3	15	15	3.06
35.36	1.55	20	6	30	30	4.48
59.46	1.77	20	12	60	60	5.25
100	2	20	20	100	100	7.73



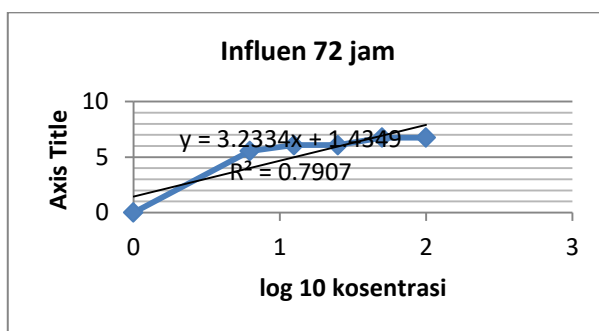
Nilai Probit 48 jam Influen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0.00	0	20	0	0	0	0
6.25	0.80	20	9	45	45	4.85
12.50	1.10	20	13	65	65	5.39
25.00	1.40	20	14	70	70	5.25
50.00	1.70	20	18	90	90	6.28
100.00	2	20	20	100	100	7.73



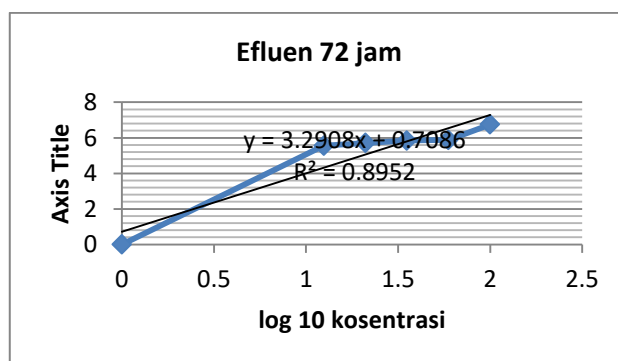
Nilai Probit 48 jam Efluen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	0	0	0	0
12.5	1.10	20	3	15	15	3.06
21.02	1.32	20	10	50	50	5
35.36	1.55	20	13	65	65	5.39
59.46	1.77	20	14	70	70	5.52
100	2	20	20	100	100	7.73



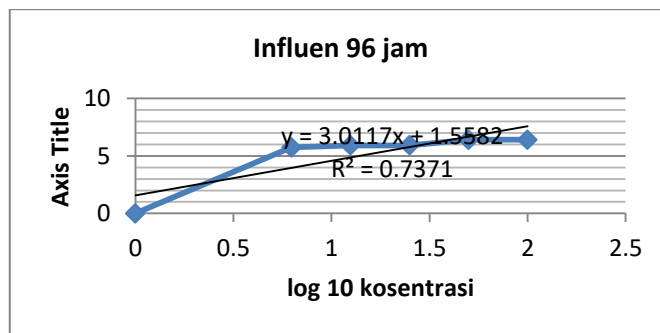
Nilai Probit 72 jam Influen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0.00	0	20	1	5	0	0
6.25	0.80	20	15	75	71	5.55
12.50	1.10	20	18	90	86	6.08
25.00	1.40	20	18	90	86	6.08
50.00	1.70	20	20	100	96	6.75
100.00	2	20	20	100	96	6.75



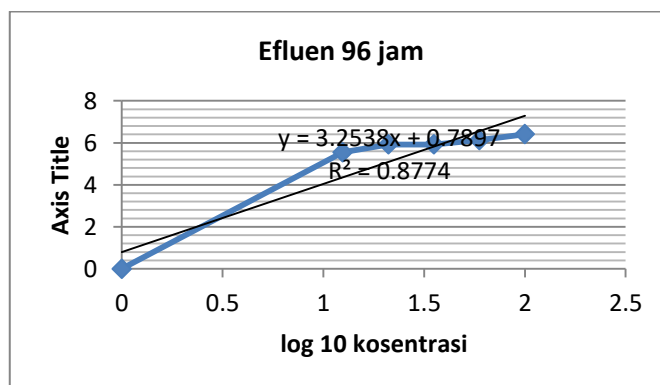
Nilai Probit 72 jam Efluen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	1	5	0	0
12.5	1.10	20	15	75	71	5.55
21.02	1.32	20	16	80	76	5.71
35.36	1.55	20	17	85	81	5.84
59.46	1.77	20	18	90	86	5.88
100	2	20	20	100	96	6.75



Nilai Probit 96 jam Influen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0.00	0	20	2	10	0	0
6.25	0.80	20	17	85	77	5.74
12.50	1.10	20	18	90	82	5.92
25.00	1.40	20	18	90	82	5.92
50.00	1.70	20	20	100	92	6.41
100.00	2	20	20	100	92	6.41



Nilai Probit 96 jam Efluen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	2	10	0	0
12.5	1.10	20	16	80	71	5.55
21.02	1.32	20	18	90	82	5.92
35.36	1.55	20	18	90	82	5.92
59.46	1.77	20	19	95	87	6.13
100	2	20	20	100	92	6.41



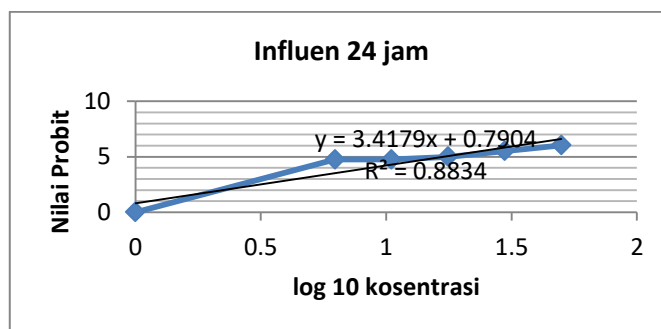
### 1.1.1. NILAI LC<sub>50</sub>

INFLUEN						
No.	waktu (jam)	nilai a	nilai b	y	x	LC 50
1	24	0.2647	3.6179	5	1.30885	20.3635
2	48	-0.8377	3.6179	5	1.61356	41.0734
3	72	-1.4349	3.2334	5	1.99013	97.7539
4	96	-1.558	3.0117	5	2.17751	150.49

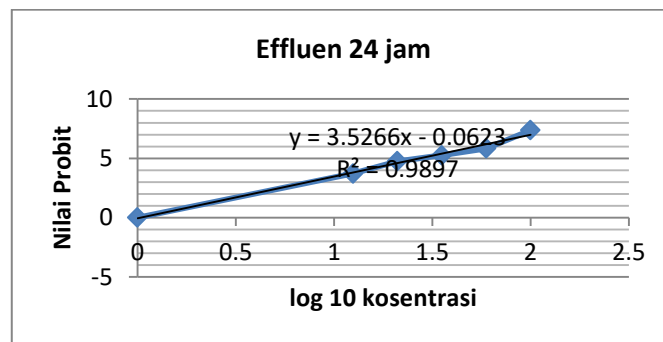
EFFLUEN						
No.	waktu (jam)	nilai a	nilai b	y	x	LC 50
1	24	0.5406	3.4646	5	1.28713	19.3701
2	48	0.2409	3.6353	5	1.30914	20.3768
3	72	-0.7086	3.2908	5	1.73471	54.2894
4	96	-0.7897	3.2538	5	1.77937	60.168

### 1.2. IPAL GROJOGAN

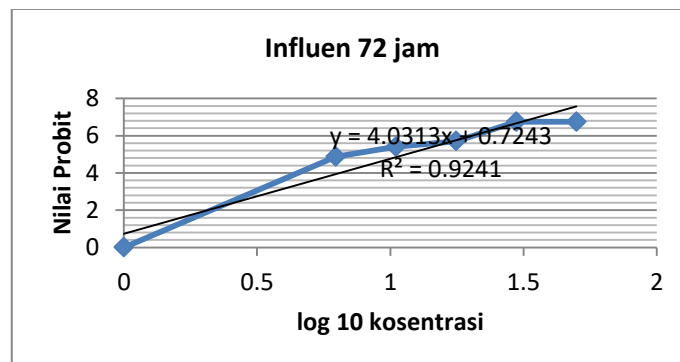
Nilai Probit 24 jam Influen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	0	0	0	0
6.25	0.80	20	8	40	40	4.75
10.51	1.02	20	8	40	40	4.75
17.68	1.25	20	10	50	50	5
29.73	1.47	20	14	70	70	5.52
50	1.70	20	17	85	85	6.04



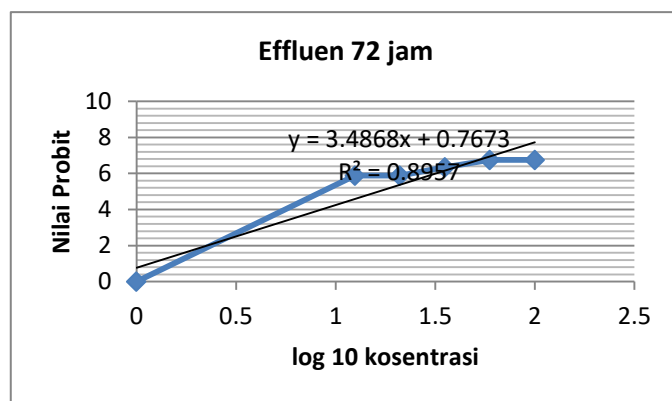
Nilai Probit 24 jam Efluen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	0	0	0	0
12.5	1.10	20	2	10	10	3.72
21.02	1.32	20	8	40	40	4.75
35.36	1.55	20	12	60	60	5.25
59.46	1.77	20	16	80	80	5.84
100	2	20	20	100	100	7.37



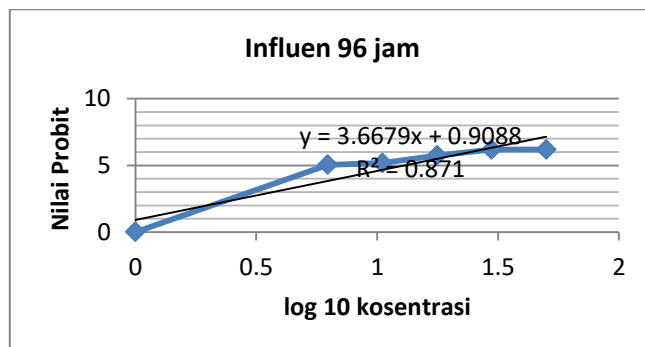
Nilai Probit 72 jam Influen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	1	5	0	0
6.25	0.80	20	10	50	45	4.87
10.51	1.02	20	14	70	66	5.41
17.68	1.25	20	16	80	76	5.71
29.73	1.47	20	20	100	96	6.75
50	1.70	20	20	100	96	6.75



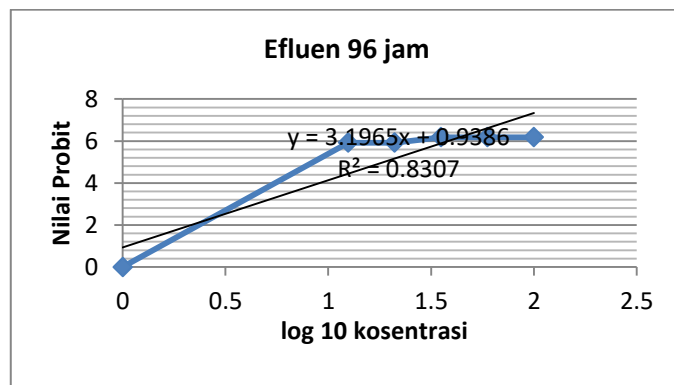
Nilai Probit 72 jam Efluen						
Konsentras i (ml)	Log 10 Konsentras i	Jumlah Individu uji	Jumlah individu mati	% Mortalita s	% mortalitas terkoreksi	Nilai Probit
0	0	20	1	5	0	0
12.5	1.10	20	17	85	81	5.88
21.02	1.32	20	17	85	81	5.88
35.36	1.55	20	19	95	91	6.34
59.46	1.77	20	20	100	96	6.75
100	2	20	20	100	96	6.75



Nilai Probit 96 jam Influen						
Konsentras i (ml)	Log 10 Konsentras i	Jumlah Individu uji	Jumlah individu mati	% Mortalita s	% mortalitas terkoreksi	Nilai Probit
0	0	20	3	15	0	0
6.25	0.80	20	13	65	52	5.05
10.51	1.02	20	14	70	57	5.18
17.68	1.25	20	18	90	77	5.74
29.73	1.47	20	20	100	88	6.18
50	1.69	20	20	100	88	6.18



Nilai Probit 96 jam Efluen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	3	15	0	0
12.5	1.10	20	19	95	82	5.92
21.02	1.32	20	19	95	82	5.92
35.36	1.55	20	20	100	88	6.18
59.46	1.77	20	20	100	88	6.18
100	2	20	20	100	88	6.18



### 1.2.1. NILAI LC<sub>50</sub>

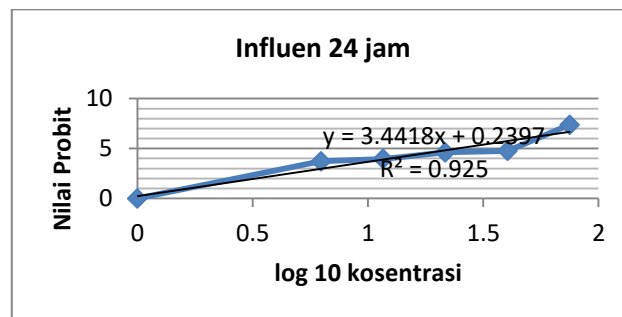
INFLUEN						
No.	waktu (jam)	nilai a	nilai b	y	x	LC 50
1	24	-0.7904	3.4179	5	1.69414	49.447
2	48	-0.5369	4.1972	5	1.31919	4.72
3	72	-0.7245	4.0313	5	1.42001	26.3035
4	96	-0.9088	3.6679	5	1.61095	40.8271

EFFLUEN						
No.	waktu (jam)	nilai a	nilai b	y	x	LC 50
1	24	0.0623	3.5266	5	1.40013	25.1264
2	48	-0.3138	3.7569	5	1.41441	4.52
3	72	-0.7673	3.4868	5	1.65404	45.0856
4	96	-0.9386	3.1965	5	1.85784	72.0849

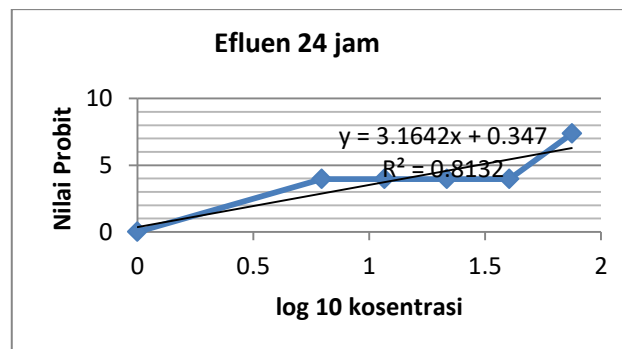


### 1.3 IPAL PAMOTAN LOR

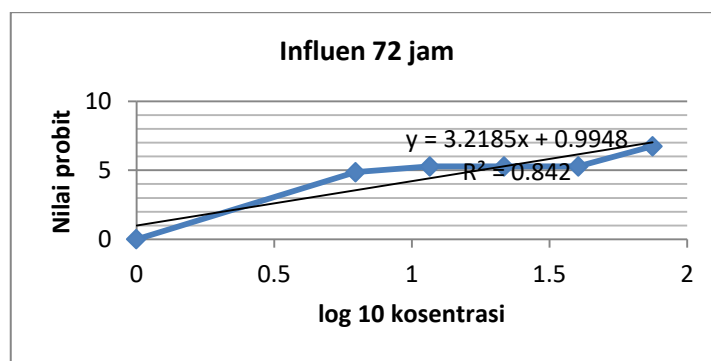
Nilai Probit 24 jam Influen						
Konsentras i (ml)	Log 10 Konsentras i	Jumlah Individu uji	Jumlah individu mati	% Mortalita s	% mortalitas terkoreksi	Nilai Probit
0	0	20	0	0	0	0
6.25	0.80	20	2	10	10	3.72
11.63	1.07	20	3	15	15	3.96
21.65	1.34	20	7	35	35	4.61
40.3	1.61	20	8	40	40	4.76
75	1.88	20	20	100	100	7.37



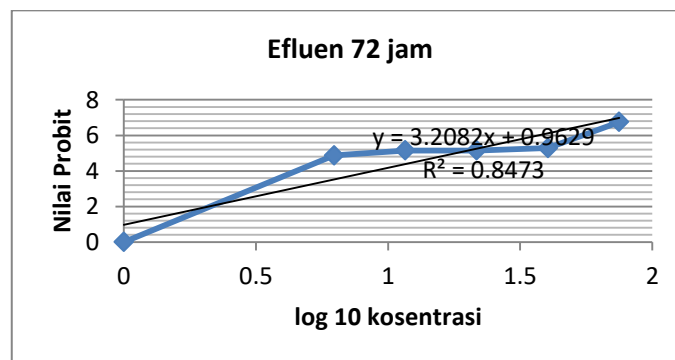
Nilai Probit 24 jam Efluen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	0	0	0	0
6.25	0.80	20	3	15	15	3.96
11.63	1.07	20	3	15	15	3.96
21.65	1.34	20	3	15	15	3.96
40.3	1.61	20	3	15	15	3.96
75	1.88	20	20	100	100	7.37



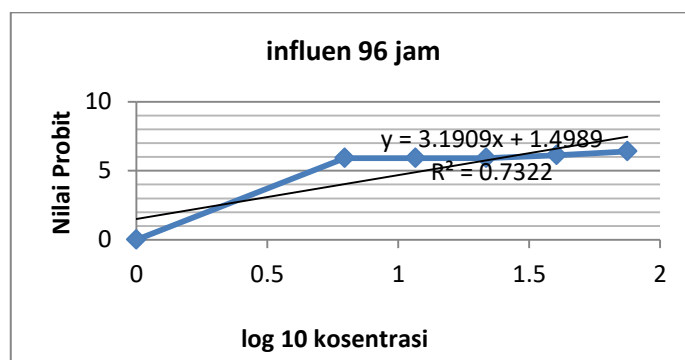
Nilai Probit 72 jam Influen						
Konsentras i (ml)	Log 10 Konsentras i	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	1	5	0	0
6.25	0.80	20	10	50	45	4.87
11.63	1.07	20	13	65	61	5.28
21.65	1.34	20	13	65	61	5.28
40.3	1.61	20	13	65	61	5.28
75	1.88	20	20	100	96	6.75



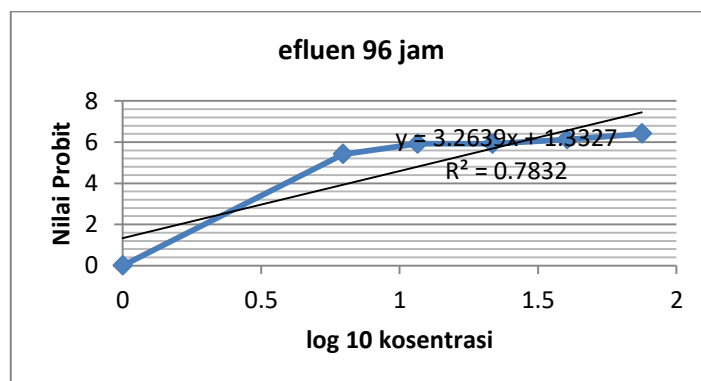
Nilai Probit 72 jam Efluen						
Konsentras i (ml)	Log 10 Konsentras i	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	1	5	0	0
6.25	0.80	20	10	50	45	4.87
11.63	1.07	20	12	60	56	5.15
21.65	1.34	20	12	60	56	5.15
40.3	1.61	20	13	65	61	5.28
75	1.88	20	20	100	96	6.75



Nilai Probit 96 jam Influen						
Konsentras i (ml)	Log 10 Konsentras i	Jumlah Individu uji	Jumlah individu mati	% Mortalita s	% mortalitas terkoreksi	Nilai Probit
0	0	20	2	10	0	0
6.25	0.80	20	18	90	82	5.92
11.63	1.07	20	18	90	82	5.92
21.65	1.34	20	18	90	82	5.92
40.3	1.61	20	19	95	87	6.13
75	1.88	20	20	100	92	6.41



Nilai Probit 96 jam Efluen						
Konsentras i (ml)	Log 10 Konsentras i	Jumlah Individu uji	Jumlah individu mati	% Mortalita s	% mortalitas terkoreksi	Nilai Probit
0	0	20	2	10	0	0
6.25	0.80	20	15	75	66	5.41
11.63	1.07	20	18	90	82	5.92
21.65	1.34	20	18	90	82	5.92
40.3	1.61	20	19	95	87	6.13
75	1.88	20	20	100	92	6.41



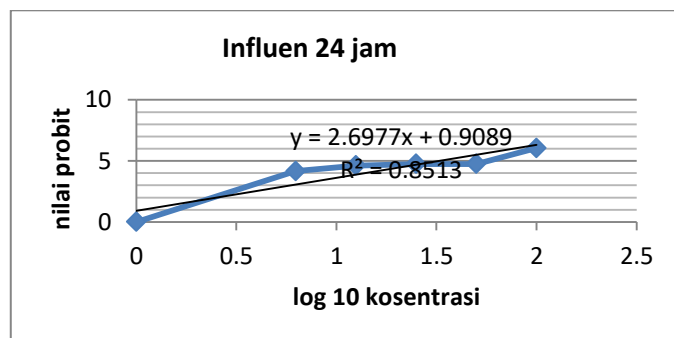
### 1.3.1. Nilai LC<sub>50</sub>

INFLUEN						
No.	waktu (jam)	nilai a	nilai b	y	x	LC 50
1	24	-0.2397	3.4418	5	1.52237	33.2945
2	48	-0.7025	3.3345	5	1.71015	14.79
3	72	-0.9948	3.2185	5	1.86261	72.8797
4	96	-1.498	3.1909	5	2.03642	108.747

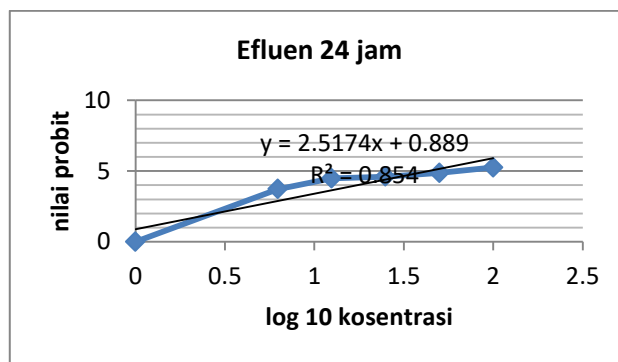
EFFLUEN						
No.	waktu (jam)	nilai a	nilai b	y	x	LC 50
1	24	-0.347	3.1642	5	1.68984	48.9601
2	48	-0.7245	3.3341	5	1.71696	14.41
3	72	-0.9629	3.2082	5	1.85864	72.2177
4	96	-1.3327	3.2639	5	1.94022	87.1415

### 1.4. IPAL NGLBENG

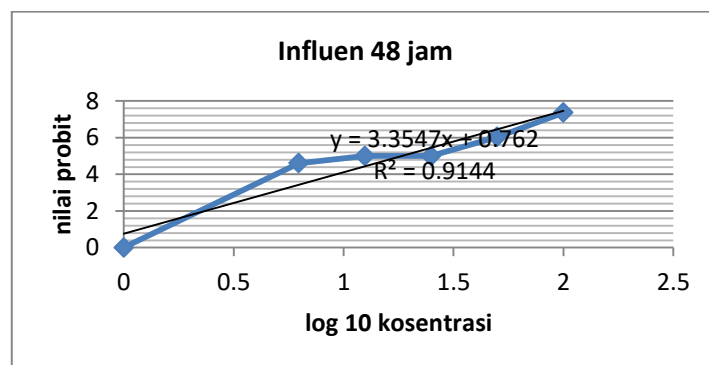
Nilai Probit 24 jam Influen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	0	0	0	0
6.25	0.80	20	4	20	20	4.16
12.5	1.10	20	7	35	35	4.61
25	1.40	20	8	40	40	4.75
50	1.70	20	8	40	40	4.75
100	2.00	20	17	85	85	6.04



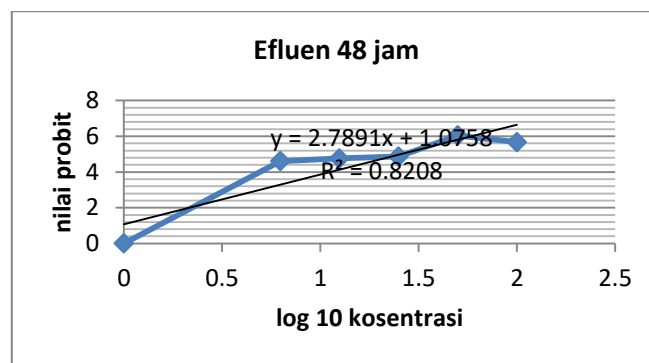
Nilai Probit 24 jam Efluen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	0	0	0	0
6.25	0.80	20	2	10	10	3.72
12.5	1.10	20	6	30	30	4.48
25	1.40	20	7	35	35	4.61
50	1.70	20	9	45	45	4.87
100	2.00	20	12	60	60	5.25



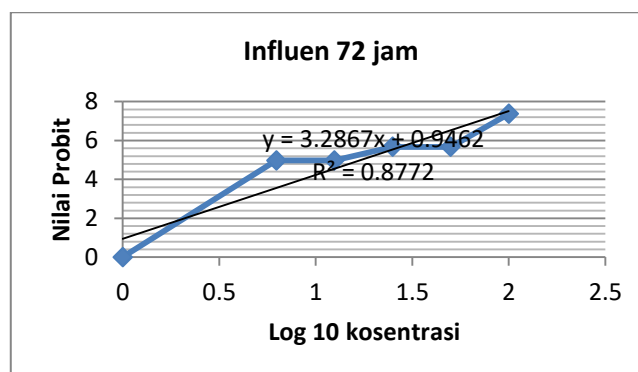
Nilai Probit 48 jam Influen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	0	0	0	0
6.25	0.80	20	7	35	35	4.61
12.5	1.10	20	10	50	50	5
25	1.40	20	10	50	50	5
50	1.70	20	13	65	65	6.04
100	2.00	20	20	100	100	7.37



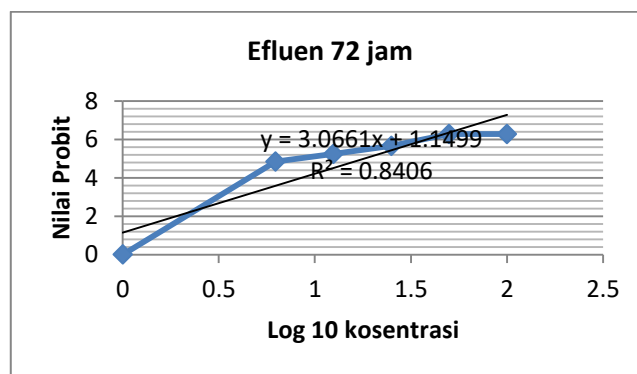
Nilai Probit 48 jam Efluen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	0	0	0	0
6.25	0.80	20	7	35	35	4.61
12.5	1.10	20	8	40	40	4.76
25	1.40	20	9	45	45	4.87
50	1.70	20	13	65	65	6.04
100	2.00	20	15	75	75	5.67



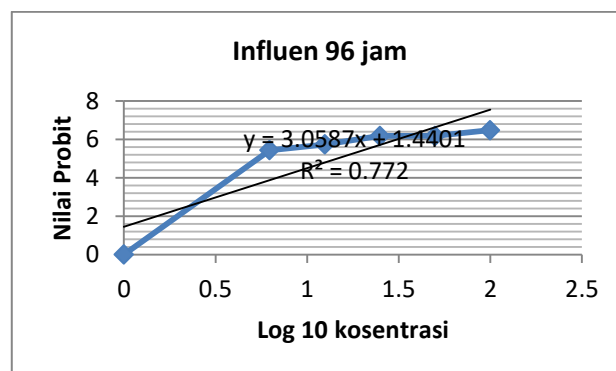
Nilai Probit 72 jam Influen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	0	1	0	0
6.25	0.80	20	10	50	49	4.97
12.5	1.10	20	10	50	49	4.97
25	1.40	20	15	75	75	5.67
50	1.70	20	15	75	75	5.67
100	2.00	20	20	100	100	7.37



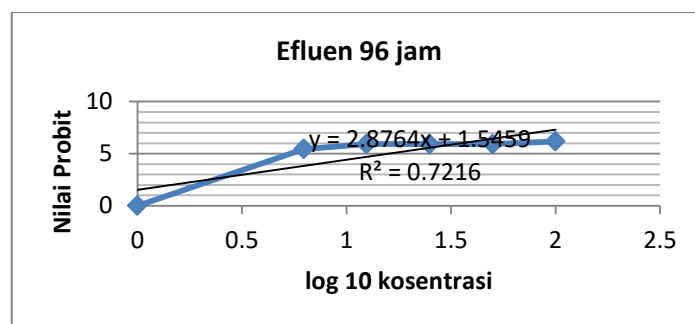
Nilai Probit 72 jam Efluen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	0	1	0	0
6.25	0.80	20	9	45	44	4.85
12.5	1.10	20	12	60	60	5.25
25	1.40	20	15	75	75	5.67
50	1.70	20	18	90	90	6.28
100	2.00	20	18	90	90	6.28



Nilai Probit 96 jam Influen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	2	10	0	0
6.25	0.80	20	15	75	67	5.44
12.5	1.10	20	17	85	77	5.74
25	1.40	20	19	95	88	6.18
50	1.70	20	19	95	88	6.18
100	2.00	20	20	100	93	6.48



Nilai Probit 96 jam Efluen						
Konsentrasi (ml)	Log 10 Konsentrasi	Jumlah Individu uji	Jumlah individu mati	% Mortalitas	% mortalitas terkoreksi	Nilai Probit
0	0	20	2	10	0	0
6.25	0.80	20	15	75	67	5.44
12.5	1.10	20	18	90	82	5.92
25	1.40	20	18	90	82	5.92
50	1.70	20	18	90	82	5.92
100	2.00	20	19	95	88	6.18



#### 1.4.1. NILAI LC<sub>50</sub>

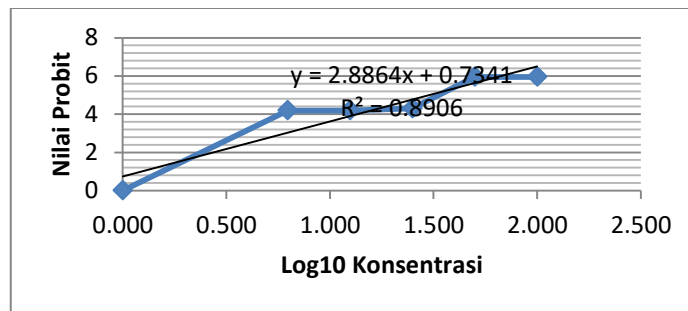
INFLUEN						
No.	waktu (jam)	nilai a	nilai b	y	x	LC 50
1	24	-0.9089	2.6977	5	2.19035	155.006
2	48	-0.762	3.3547	5	1.71759	52.1904
3	72	-0.9462	3.2867	5	1.80917	64.4422
4	96	-1.4401	3.0587	5	2.1055	127.498

EFFLUEN						
No.	waktu (jam)	nilai a	nilai b	y	x	LC 50
1	24	-0.9519	2.5174	5	2.3643	231.369
2	48	-1.0758	2.789	5	2.17849	150.83
3	72	-1.1499	3.0661	5	2.00577	101.338
4	96	-1.5459	2.8764	5	2.27573	188.68

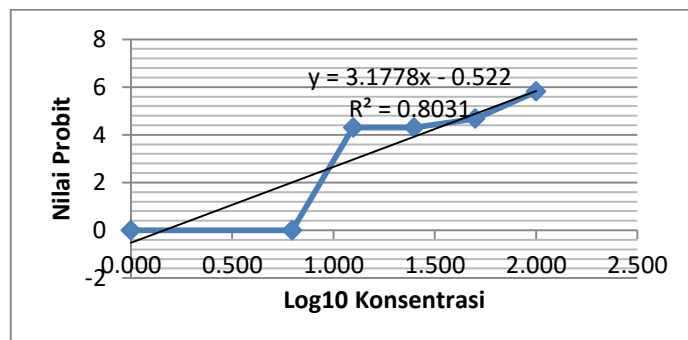


### 1.5.IPAL SUKUNAN

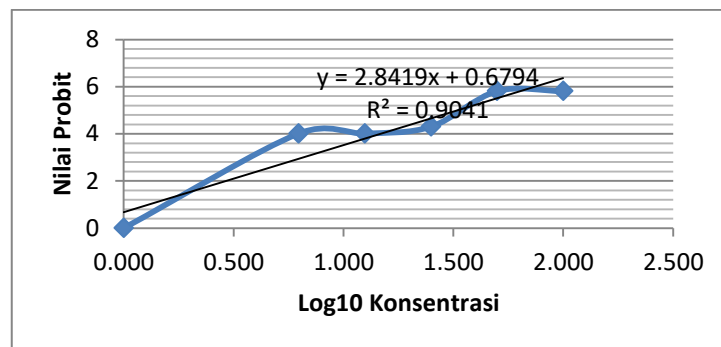
Efluen							
Waktu (jam)	Konsentrasi (%)	Log10 Konsentrasi	Jumlah Individu Uji	Jumlah Individu Mati	% Mortalitas	% Mortalitas Terkoleksi	Nilai Probit
48	0	0.000	20	4	20	0%	0
	6.25	0.796	20	8	40	21%	4.19
	12.5	1.097	20	8	40	21%	4.19
	25	1.398	20	9	45	26%	4.3
	50	1.699	20	20	100	83%	5.95
	100	2.000	20	20	100	83%	5.95



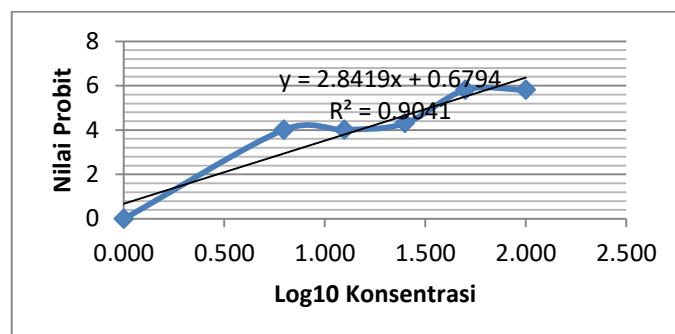
Influen							
Waktu (jam)	Konsentrasi (%)	Log10 Konsentrasi	Jumlah Individu Uji	Jumlah Individu Mati	% Mortalitas	% Mortalitas Terkoleksi	Nilai Probit
72	0	0.000	20	5	25	0%	0
	6.25	0.796	20	5	25	0%	0
	12.5	1.097	20	10	50	26%	4.3
	25	1.398	20	10	50	26%	4.3
	50	1.699	20	12	60	37%	4.67
	100	2.000	20	20	100	79%	5.81



Efluen							
Waktu (jam)	Konsentrasi (%)	Log10 Konsentrasi	Jumlah Individu Uji	Jumlah Individu Mati	% Mortalitas	% Mortalitas Terkoleksi	Nilai Probit
72	0	0.000	20	5	25	0%	0
	6.25	0.796	20	8	40	16%	4.01
	12.5	1.097	20	8	40	16%	4.01
	25	1.398	20	10	50	26%	4.3
	50	1.699	20	20	100	79%	5.81
	100	2.000	20	20	100	79%	5.81



Efluen							
Waktu (jam)	Konsentrasi (%)	Log10 Konsentrasi	Jumlah Individu Uji	Jumlah Individu Mati	% Mortalitas	% Mortalitas Terkoleksi	Nilai Probit
96	0	0.000	20	5	25	0%	0
	6.25	0.796	20	8	40	16%	4.01
	12.5	1.097	20	8	40	16%	4.01
	25	1.398	20	10	50	26%	4.3
	50	1.699	20	20	100	79%	5.81
	100	2.000	20	20	100	79%	5.81



### 1.5.1. NILAI LC<sub>50</sub>

EFFLUEN						
No.	waktu (jam)	nilai a	nilai b	y	x	LC 50
1	24					38.41
2	48	-0.7341	2.8864	5	1.98659	96.9599
3	72	-0.6794	2.8419	5	1.99845	99.6441
4	96	-0.6794	2.8419	5	1.99845	99.6441

INFLUEN						
No.	waktu (jam)	nilai a	nilai b	y	x	LC 50
1	24					34.14
2	48					32
3	72	-0.522	3.1778	5	1.73768	54.6613
4	96					7.68

## 2. SPEARMAN KARBER

### IPAL GROJOGAN 48 JAM EFFLUEN

Konsentrasi	%	12.5	21.02	35.36	59.46	100		
Ln kon	xi	2.5257	3.0454	3.5655	4.0853	4.605		
Populasi	ni	20	20	20	20	20		
Kematian udang	ri	13	10	16	20	20		
% Kematian udang	pi	0.65	0.5	0.8	1	1		
% Kematian udang perbaikan	p'i	0.575	0.575	0.8	1	1		
	Rf	0	0.225	0.2	0		0.425	Total
	Mi	2.7856	3.3055	3.8254	4.34527			
	Rf x Mi	0	0.743744	0.765089	0		1.508832	Total (m)
	m	1.508832						
	LC50	4.521448		TUa	22.11681			
	V(m)	0.000869	0.00087	0.000569	0		0.002307	
	95% confidence interval		LC50 up down			95% c	0.1077	*(2akar Vm)

Up	1.616532	5.035598
Down	1.401132	4.059794

IPAL PAMOTAN LOR 48 JAM INFLUEN

Konsentrasi	%	12.5	21.02	35.36	59.46	100	
Ln kon	xi	2.525729	3.045474	3.565581	4.085304	4.60517	
Populasi	ni	20	20	20	20	20	
Kematian udang	ri	7	9	8	9	20	
% Kematian udang	pi	0.35	0.45	0.4	0.45	1	
% Kematian udang perbaikan	p'i	0.35	0.425	0.425	0.45	1	
	Rf	0.075	0	0.025	0.55		0.65
	Mi	2.785602	3.305528	3.825443	4.345237		
	Rf x Mi	0.20892	0	0.095636	2.38988		2.694437
	m	2.694437					
	LC50	14.79718		TUa	6.758045		
	V(m)	0.000809	0.00087	0.000869	0.00088		0.003427
	95% confidence interval		LC50 up down			95% c	0.1077
	Up	2.802137	16.47982				
	Down	2.586737	13.28634				