PoloPlus output for acute toxicity bioassay in Kleckner et al. 2022

See Bioassay_data_github.csv for data used in the analysis.

Coumaphos: Round 6

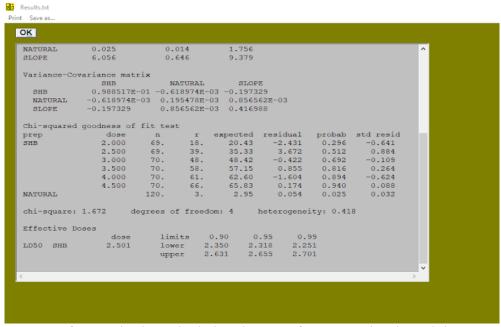


Figure 1. Output from PoloPlus calculating the LC₅₀ for coumaphos in $\mu g/\mu l$. LC₅₀ was later converted to $\mu g/g$.

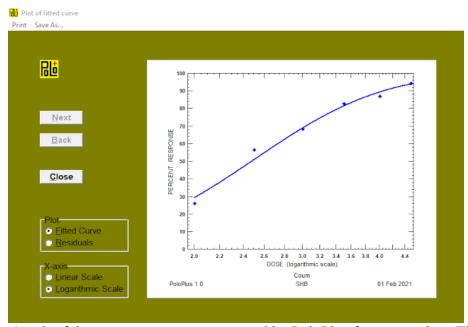


Figure 2. Graph of dose-response curve generated by PoloPlus for coumaphos. The x-axis represents the log-dose ($\mu g/\mu l$) and the y-axis represents the response, or mortality, at 72 hours post compound administration.

Acetamiprid: Round 2

١	0 <u>K</u>								
	SHB	4.325	0.563		7.679				^
	NATURAL	0.111	0.042		2.640				
	SLOPE	3.126	0.443		7.061				
	Variance-Covariance matrix								
		SHB	NATURAL		SLOPE				
	SHB		0.208956E-02 -02 0.176059E-02 0.347707E-02						
	NATURAL								
	SLOPE	0.242160			0.196027				
	Chi-squared goodness of fit test								
	prep	dose			mected	residual	probab	std resid	
	SHB	0.025	50.		16.53				
1		0.050			32.29		0.646		
		0.100			44.87		0.897		
		0.200				-0.281			
		0.400	50.	50.	49.95	0.046	0.999	0.214	
	NATURAL		50.	6.	5.54	0.462	0.111	0.208	
	chi-square: 4.9390 degrees of freedom: 3					3 heterogeneity: 1.6463			
Effective Doses									
	dose limits 0.9			90 0	.95 0.9	99			
	LD50 SHB	0.041	lowe	r 0.0	26 0.	020			
			uppe	r 0.0	56 0.	062			
	c								

Figure 3. Output from PoloPlus calculating the LC50 for acetamiprid in $\mu g/\mu l$. LC50 was later converted to $\mu g/g$.

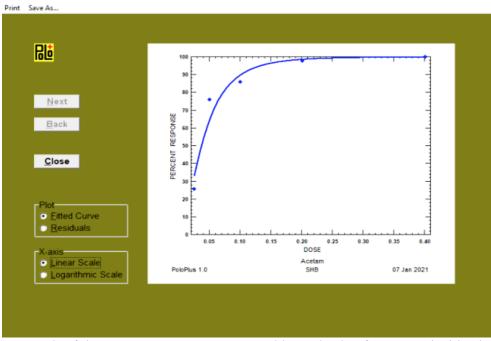


Figure 4. Graph of dose-response curve generated by PoloPlus for acetamiprid. The x-axis represents the dose ($\mu g/\mu l$) and the y-axis represents the response, or mortality, at 72 hours post compound administration.

Fipronil: Round 5

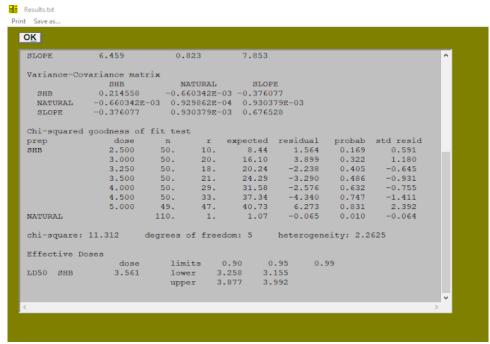


Figure 5. Output from PoloPlus calculating the LC₅₀ for fipronil in ng/ μ l. LC₅₀ was later converted to μ g/g.

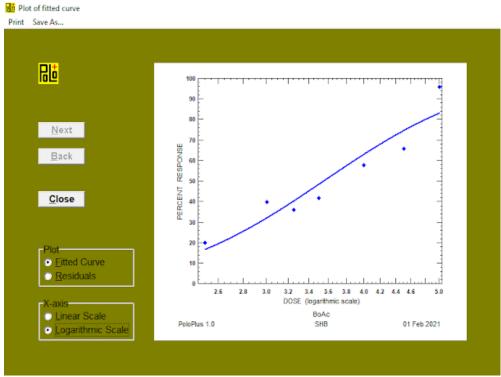


Figure 6. Graph of dose-response curve generated by PoloPlus for fipronil. The x-axis represents the log-dose (ng/μl) and the y-axis represents the response, or mortality, at 72 hours post compound administration.