

NonLinear Regression Model [$y = ae^{(bx)}$] for Response Data

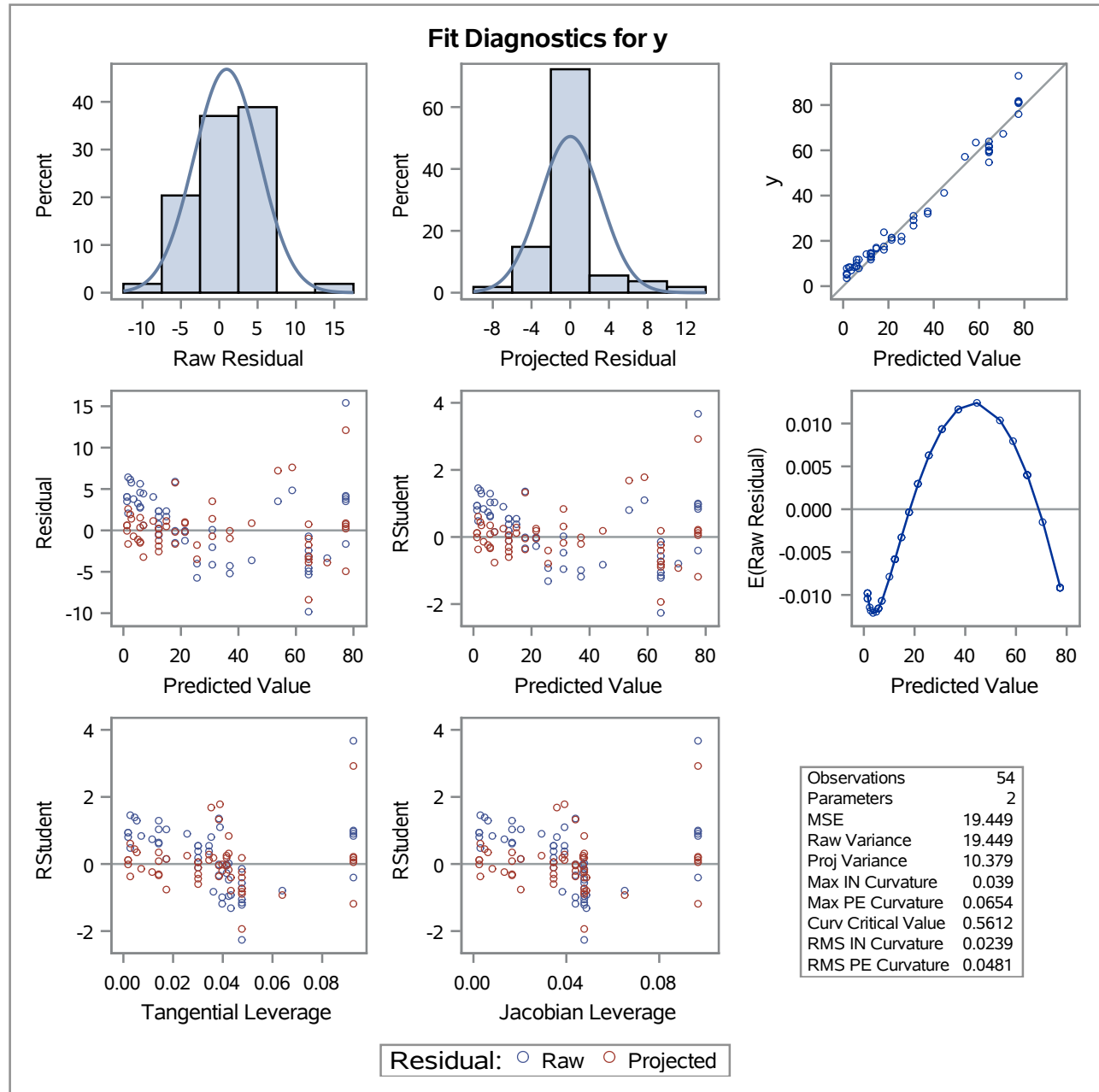
The NLIN Procedure
 Dependent Variable y
 Method: Gauss-Newton

Iterative Phase			
Iter	a	b	Sum of Squares
0	80.0000	-0.5000	3733.4
1	105.0	-0.6910	1116.8
2	111.2	-0.7290	1012.3
3	111.8	-0.7344	1011.3
4	111.9	-0.7351	1011.3
5	111.9	-0.7352	1011.3
6	111.9	-0.7352	1011.3

NOTE: Convergence criterion met.

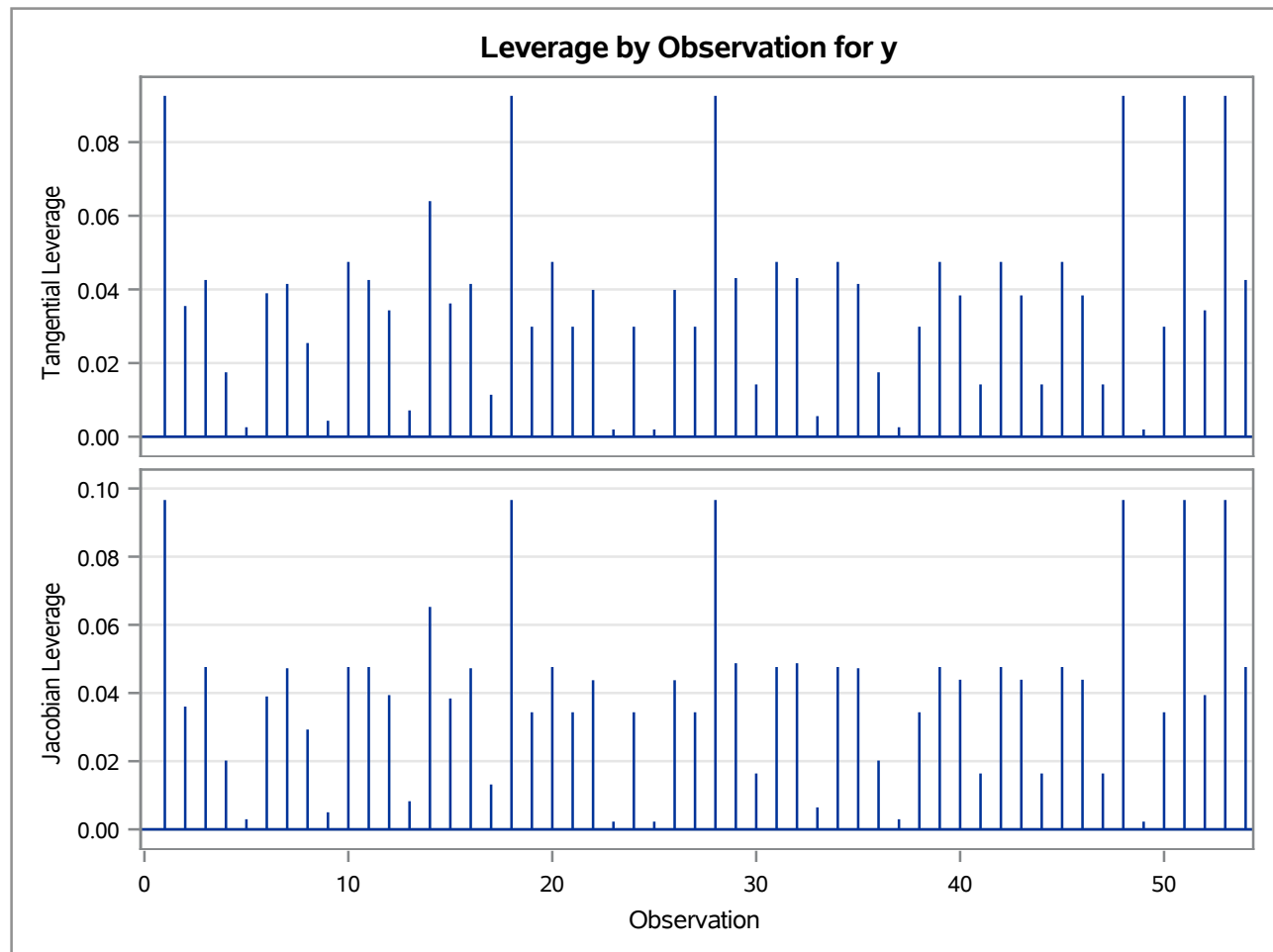
NonLinear Regression Model [$y = ae^{(bx)}$] for Response Data

The NLIN Procedure
Dependent Variable y
Method: Gauss-Newton



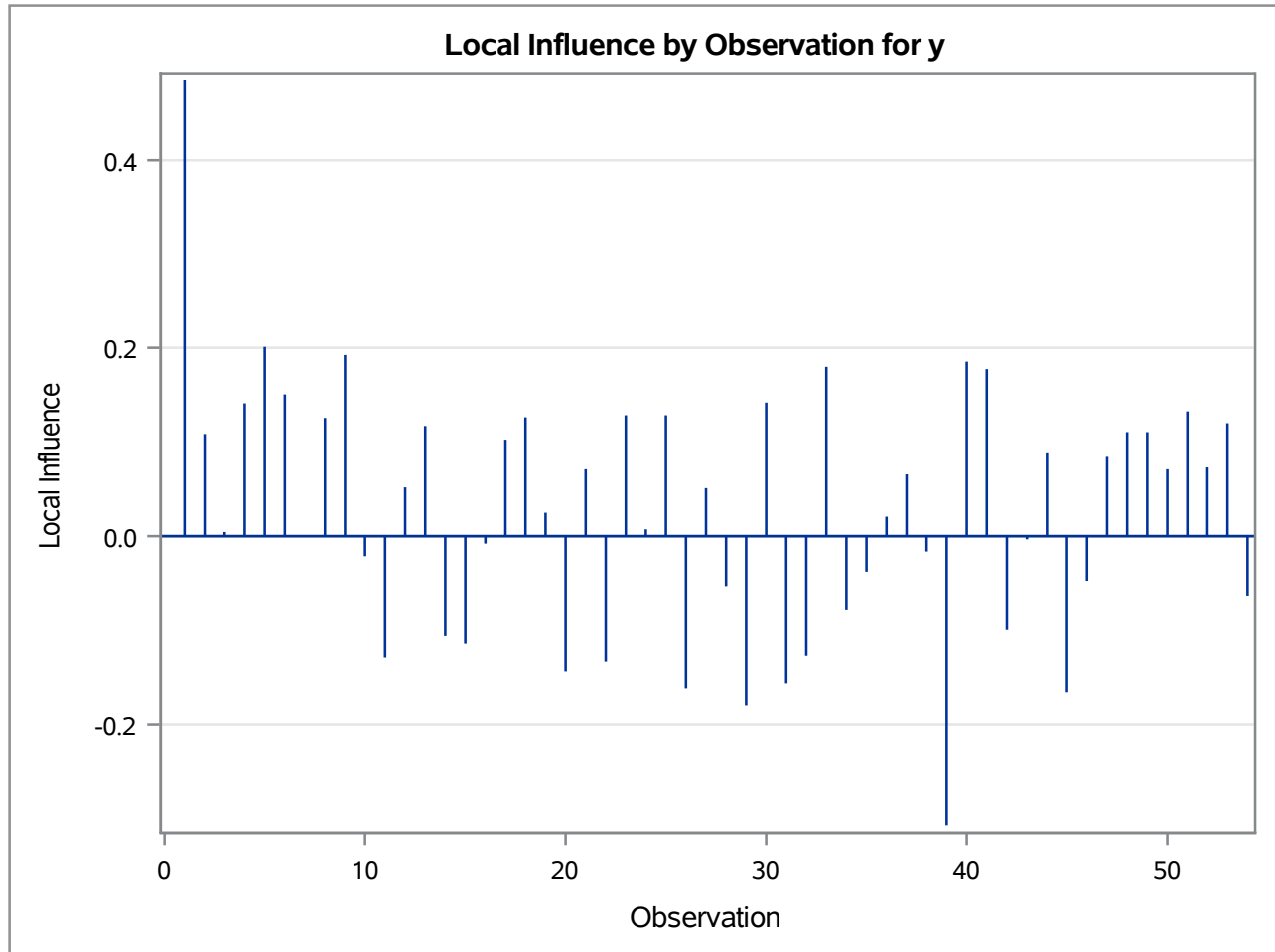
NonLinear Regression Model [$y = ae^{(bx)}$] for Response Data

The NLIN Procedure
Dependent Variable y
Method: Gauss-Newton



NonLinear Regression Model [$y = ae^{(bx)}$] for Response Data

The NLIN Procedure
 Dependent Variable y
 Method: Gauss-Newton



Estimation Summary	
Method	Gauss-Newton
Iterations	6
R	9.802E-6
PPC(b)	2.658E-6
RPC(b)	0.000019
Object	5.804E-9
Objective	1011.327
Observations Read	54
Observations Used	54
Observations Missing	0

NonLinear Regression Model [$y = ae^{(bx)}$] for Response Data

The NLIN Procedure

Note: An intercept was not specified for this model.

Source	DF	Sum of Squares	Mean Square	F Value	Approx Pr > F
Model	2	89484.3	44742.1	2300.53	<.0001
Error	52	1011.3	19.4486		
Uncorrected Total	54	90495.6			

Parameter	Estimate	Approx Std Error	Approximate 95% Confidence Limits	
a	111.9	3.0488	105.8	118.0
b	-0.7352	0.0276	-0.7907	-0.6798

Approximate Correlation Matrix		
	a	b
a	1.0000000	-0.8409166
b	-0.8409166	1.0000000

NonLinear Regression Model [$y = e^{(ax)/(b + cx)}$] for Response Data

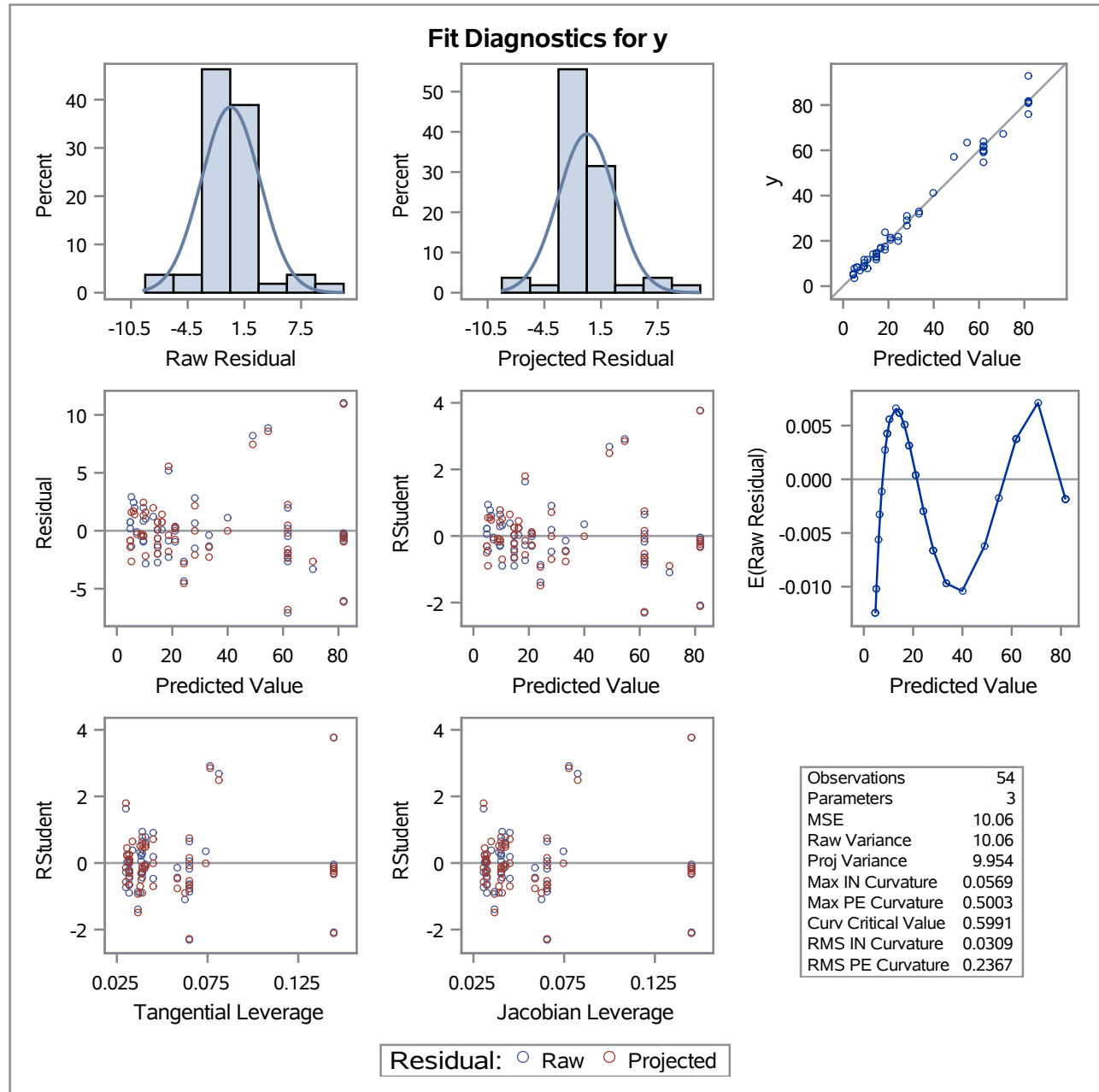
The NLIN Procedure
 Dependent Variable y
 Method: Gauss-Newton

Iterative Phase				
Iter	a	b	c	Sum of Squares
0	0.1000	0.1000	0.1000	72705.2
1	0.0880	-0.00177	0.1015	51310.0
2	-0.0305	0.0139	0.0196	18614.2
3	-0.0656	0.00580	0.0183	4151.1
4	-0.1607	0.00496	0.0112	1004.2
5	-0.1656	0.00515	0.0121	515.1
6	-0.1665	0.00516	0.0122	513.0
7	-0.1666	0.00517	0.0122	513.0
8	-0.1666	0.00517	0.0122	513.0

NOTE: Convergence criterion met.

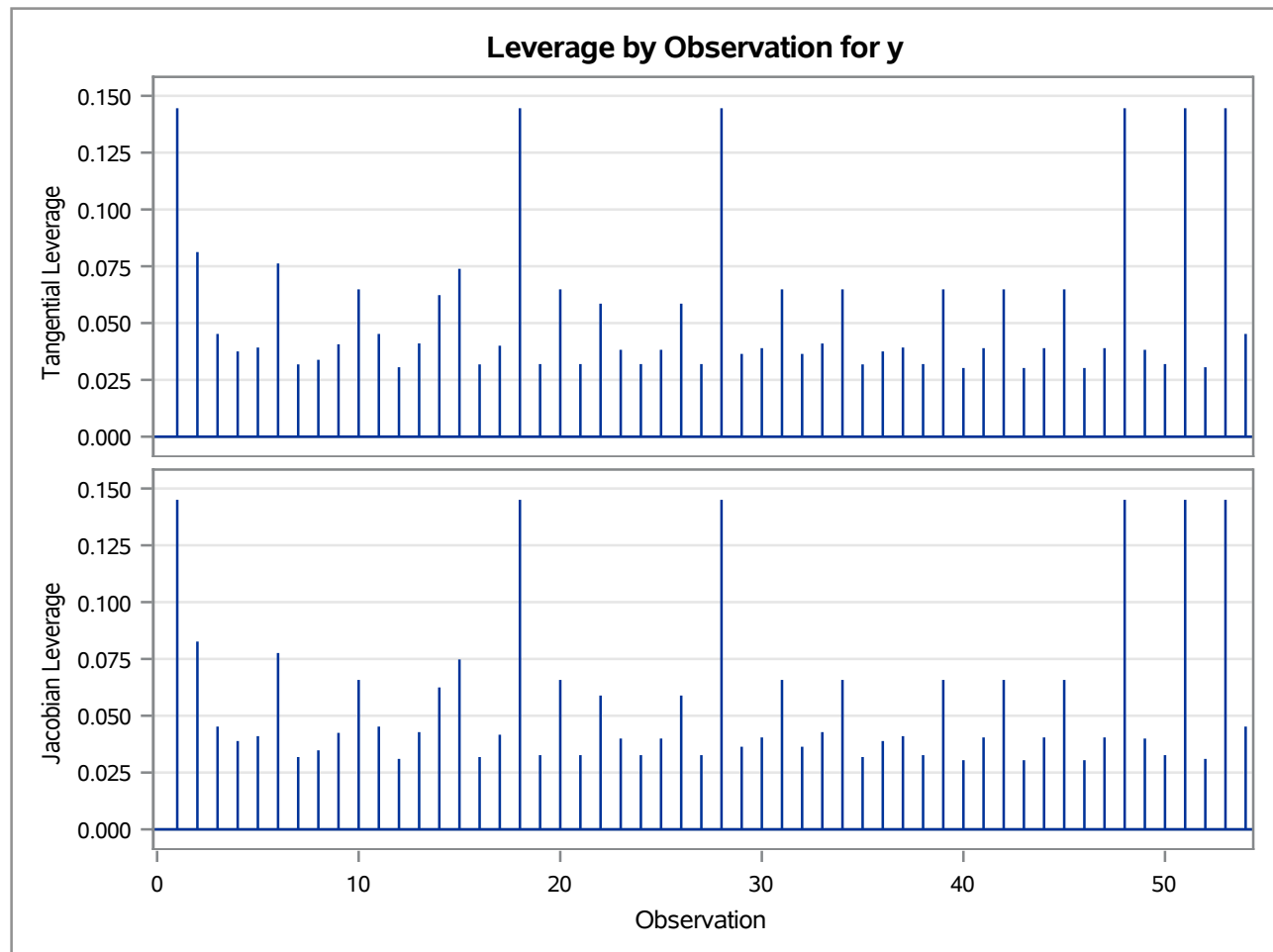
NonLinear Regression Model [$y = e^{(ax)/(b + cx)}$] for Response Data

The NLIN Procedure
Dependent Variable y
Method: Gauss-Newton



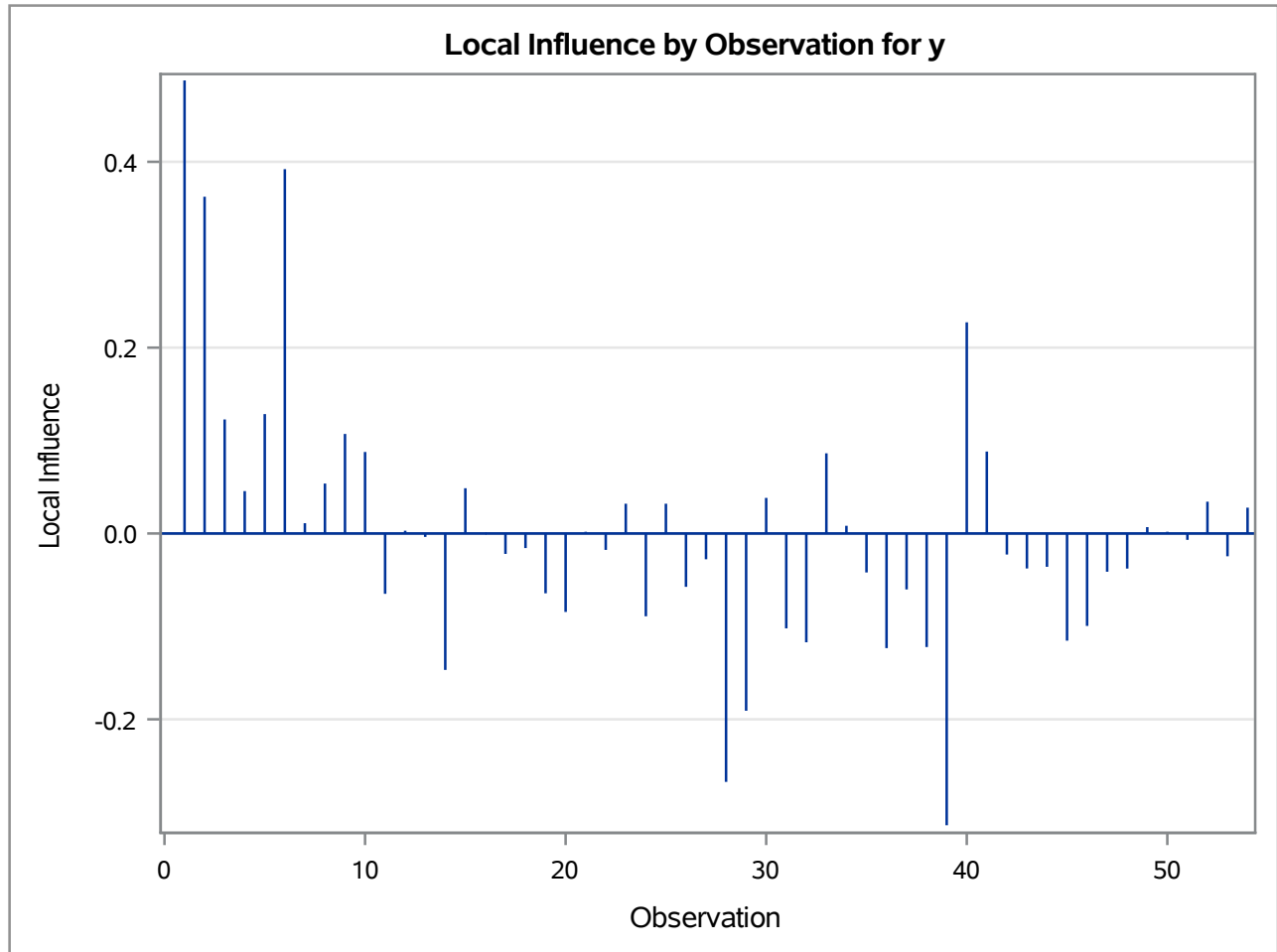
NonLinear Regression Model [$y = e^{(ax)/(b + cx)}$] for Response Data

The NLIN Procedure
Dependent Variable y
Method: Gauss-Newton



NonLinear Regression Model [$y = e^{(ax)/(b + cx)}$] for Response Data

The NLIN Procedure
 Dependent Variable y
 Method: Gauss-Newton



Estimation Summary	
Method	Gauss-Newton
Iterations	8
Subiterations	6
Average Subiterations	0.75
R	4.722E-7
PPC(a)	7.723E-7
RPC(a)	0.000017
Object	1.14E-10
Objective	513.048
Observations Read	54
Observations Used	54
Observations Missing	0

NonLinear Regression Model $[y = e^{(ax)/(b + cx)}]$ for Response Data

The NLIN Procedure

Note: An intercept was not specified for this model.

Source	DF	Sum of Squares	Mean Square	F Value	Approx Pr > F
Model	3	89982.5	29994.2	2981.60	<.0001
Error	51	513.0	10.0598		
Uncorrected Total	54	90495.6			

Parameter	Estimate	Approx Std Error	Approximate 95% Confidence Limits	
a	-0.1666	0.0383	-0.2435	-0.0897
b	0.00517	0.000666	0.00383	0.00650
c	0.0122	0.00153	0.00908	0.0152

Approximate Correlation Matrix			
	a	b	c
a	1.0000000	-0.8441931	0.9397393
b	-0.8441931	1.0000000	-0.9620080
c	0.9397393	-0.9620080	1.0000000

FORMATTED QUESTIONNAIRE

Saturday, February 16, 2019 07:15:06 PM 12

ID	DOB	AGE	LENGHT_WORK	SALES_YR
001	10/21/46	72	8	\$58,744
002	09/13/55	63	8	\$16,984
005	06/06/40	78	23	\$69,000
003	07/05/44	74	20	\$190,880
008	02/08/62	57	23	\$112,033
012	09/18/58	60	27	\$167,886
024	06/17/71	47	15	\$17,745
021	04/26/48	70	26	\$177,164
019	12/25/60	58	27	\$192,834
007	06/06/59	59	30	\$250,920