```
EXAMINE VARIABLES=angle circle_area vertical_bar horizontal_curve horizontal_direction horizont
  /PLOT BOXPLOT STEMLEAF NPPLOT
  /COMPARE GROUPS
  /STATISTICS DESCRIPTIVES
  /CINTERVAL 95
  /MISSING LISTWISE
  /NOTOTAL.
```

Explore

Notes

Output Created		03-Jul-2015 14:14:54
Comments		
Input	Active Dataset	DataSet0
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	32
Missing Value Handling	Definition of Missing	User-defined missing values for dependent variables are treated as missing.
	Cases Used	Statistics are based on cases with no missing values for any dependent variable or factor used.

Syntax		EXAMINE VARIABLES=angle circle_area vertical_bar horizontal_curve horizontal_direction horizontal_slider vertical_curve square_area texture vertical_direction vertical_slider horizontal_bar
		  /PLOT BOXPLOT STEMLEAF NPPLOT
		  /COMPARE GROUPS
		  /STATISTICS DESCRIPTIVES
		  /CINTERVAL 95
		  /MISSING LISTWISE
		  /NOTOTAL.

Resources	Processor Time	00 00:00:04.867
	Elapsed Time	00 00:00:04.861

[DataSet0]

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
angle	32	100.0%	0	.0%	32	100.0%
circle_area	32	100.0%	0	.0%	32	100.0%
vertical_bar	32	100.0%	0	.0%	32	100.0%
horizontal_curve	32	100.0%	0	.0%	32	100.0%
horizontal_direction	32	100.0%	0	.0%	32	100.0%
horizontal_slider	32	100.0%	0	.0%	32	100.0%
vertical_curve	32	100.0%	0	.0%	32	100.0%
square_area	32	100.0%	0	.0%	32	100.0%
texture	32	100.0%	0	.0%	32	100.0%
vertical_direction	32	100.0%	0	.0%	32	100.0%
vertical_slider	32	100.0%	0	.0%	32	100.0%
horizontal_bar	32	100.0%	0	.0%	32	100.0%

Descriptives

			Statistic	Std. Error
angle	Mean		2.9725	.24536
	95% Confidence Interval for Mean	Lower Bound	2.4721	
		Upper Bound	3.4729	
	5% Trimmed Mean		2.8616	
	Median		2.7600	
	Variance		1.926	
	Std. Deviation		1.38797	
	Minimum		1.10	
	Maximum		7.22	
	Range		6.12	
	Interquartile Range		1.93	
	Skewness		1.213	.414
	Kurtosis		1.858	.809
circle_area	Mean		3.5047	.50069
	95% Confidence Interval for Mean	Lower Bound	2.4835	
		Upper Bound	4.5258	
	5% Trimmed Mean		3.0969	
	Median		3.0150	
	Variance		8.022	
	Std. Deviation		2.83231	
	Minimum		.98	
	Maximum		15.21	
	Range		14.23	
	Interquartile Range		2.83	
	Skewness		2.755	.414
	Kurtosis		9.527	.809

Descriptives

			Statistic	Std. Error
vertical_bar	Mean		3.3159	.54165
	95% Confidence Interval for Mean	Lower Bound	2.2112	
		Upper Bound	4.4206	
	5% Trimmed Mean		2.8466	
	Median		2.3900	
	Variance		9.388	
	Std. Deviation		3.06403	
	Minimum		.85	
	Maximum		16.39	
	Range		15.54	
	Interquartile Range		1.82	
	Skewness		3.084	.414
	Kurtosis		10.942	.809
horizontal_curve	Mean		3.7900	.49819
	95% Confidence Interval for Mean	Lower Bound	2.7739	
		Upper Bound	4.8061	
	5% Trimmed Mean		3.3717	
	Median		3.1400	
	Variance		7.942	
	Std. Deviation		2.81816	
	Minimum		1.46	
	Maximum		17.74	
	Range		16.28	
	Interquartile Range		1.63	
	Skewness		4.147	.414
	Kurtosis		20.329	.809

Descriptives

			Statistic	Std. Error
horizontal_direction	Mean		4.6672	.63901
	95% Confidence Interval for Mean	Lower Bound	3.3639	
		Upper Bound	5.9705	
	5% Trimmed Mean		4.1685	
	Median		3.8000	
	Variance		13.067	
	Std. Deviation		3.61480	
	Minimum		1.32	
	Maximum		17.20	
	Range		15.88	
	Interquartile Range		2.24	
	Skewness		2.539	.414
	Kurtosis		6.924	.809
horizontal_slider	Mean		3.0788	.28080
	95% Confidence Interval for Mean	Lower Bound	2.5060	
		Upper Bound	3.6515	
	5% Trimmed Mean		2.9885	
	Median		2.4700	
	Variance		2.523	
	Std. Deviation		1.58846	
	Minimum		.96	
	Maximum		6.90	
	Range		5.94	
	Interquartile Range		2.15	
	Skewness		.894	.414
	Kurtosis		.118	.809

Descriptives

			Statistic	Std. Error
vertical_curve	Mean		4.3259	.43976
	95% Confidence Interval for Mean	Lower Bound	3.4290	
		Upper Bound	5.2228	
	5% Trimmed Mean		3.9999	
	Median		3.4000	
	Variance		6.188	
	Std. Deviation		2.48764	
	Minimum		2.25	
	Maximum		12.77	
	Range		10.52	
	Interquartile Range		2.02	
	Skewness		2.202	.414
	Kurtosis		4.863	.809
square_area	Mean		5.3016	.66727
	95% Confidence Interval for Mean	Lower Bound	3.9406	
		Upper Bound	6.6625	
	5% Trimmed Mean		4.9103	
	Median		4.4150	
	Variance		14.248	
	Std. Deviation		3.77467	
	Minimum		.90	
	Maximum		16.55	
	Range		15.65	
	Interquartile Range		3.86	
	Skewness		1.783	.414
	Kurtosis		3.259	.809

Descriptives

			Statistic	Std. Error
texture	Mean		10.1253	2.35792
	95% Confidence Interval for Mean	Lower Bound	5.3163	
		Upper Bound	14.9343	
	5% Trimmed Mean		7.7797	
	Median		6.6250	
	Variance		177.913	
	Std. Deviation		13.33839	
	Minimum		3.74	
	Maximum		79.05	
	Range		75.31	
	Interquartile Range		3.66	
	Skewness		4.777	.414
	Kurtosis		24.683	.809
vertical_direction	Mean		3.7284	.60194
	95% Confidence Interval for Mean	Lower Bound	2.5008	
		Upper Bound	4.9561	
	5% Trimmed Mean		3.1740	
	Median		2.9600	
	Variance		11.595	
	Std. Deviation		3.40508	
	Minimum		.96	
	Maximum		17.97	
	Range		17.01	
	Interquartile Range		1.21	
	Skewness		3.371	.414
	Kurtosis		11.887	.809

Descriptives

			Statistic	Std. Error
vertical_slider	Mean		2.7894	.31680
	95% Confidence Interval for Mean	Lower Bound	2.1433	
		Upper Bound	3.4355	
	5% Trimmed Mean		2.5392	
	Median		2.2350	
	Variance		3.212	
	Std. Deviation		1.79210	
	Minimum		1.30	
	Maximum		9.40	
	Range		8.10	
	Interquartile Range		1.22	
	Skewness		2.416	.414
	Kurtosis		6.311	.809
horizontal_bar	Mean		2.9222	.34319
	95% Confidence Interval for Mean	Lower Bound	2.2222	
		Upper Bound	3.6221	
	5% Trimmed Mean		2.7332	
	Median		2.3450	
	Variance		3.769	
	Std. Deviation		1.94137	
	Minimum		.67	
	Maximum		10.41	
	Range		9.74	
	Interquartile Range		2.06	
	Skewness		2.079	.414
	Kurtosis		6.056	.809

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
angle	.120	32	.200	.908	32	.010
circle_area	.215	32	.001	.713	32	.000
vertical_bar	.270	32	.000	.634	32	.000
horizontal_curve	.291	32	.000	.557	32	.000
horizontal_direction	.265	32	.000	.698	32	.000
horizontal_slider	.178	32	.011	.918	32	.019
vertical_curve	.281	32	.000	.719	32	.000
square_area	.224	32	.000	.812	32	.000
texture	.384	32	.000	.399	32	.000
vertical_direction	.315	32	.000	.554	32	.000
vertical_slider	.243	32	.000	.711	32	.000
horizontal_bar	.241	32	.000	.804	32	.000

a. Lilliefors Significance Correction
*. This is a lower bound of the true significance.

angle

```
angle Stem-and-Leaf Plot

 Frequency    Stem &  Leaf

     5.00        1 .  13444
     4.00        1 .  7788
     2.00        2 .  00
     7.00        2 .  5667778
     5.00        3 .  01123
     4.00        3 .  6889
     2.00        4 .  02
      .00        4 .
     1.00        5 .  4
     1.00        5 .  9
     1.00 Extremes    (>=7.2)

 Stem width:      1.00
 Each leaf:       1 case(s)
```

Normal Q-Q Plot of angle

Detrended Normal Q-Q Plot of angle

angle
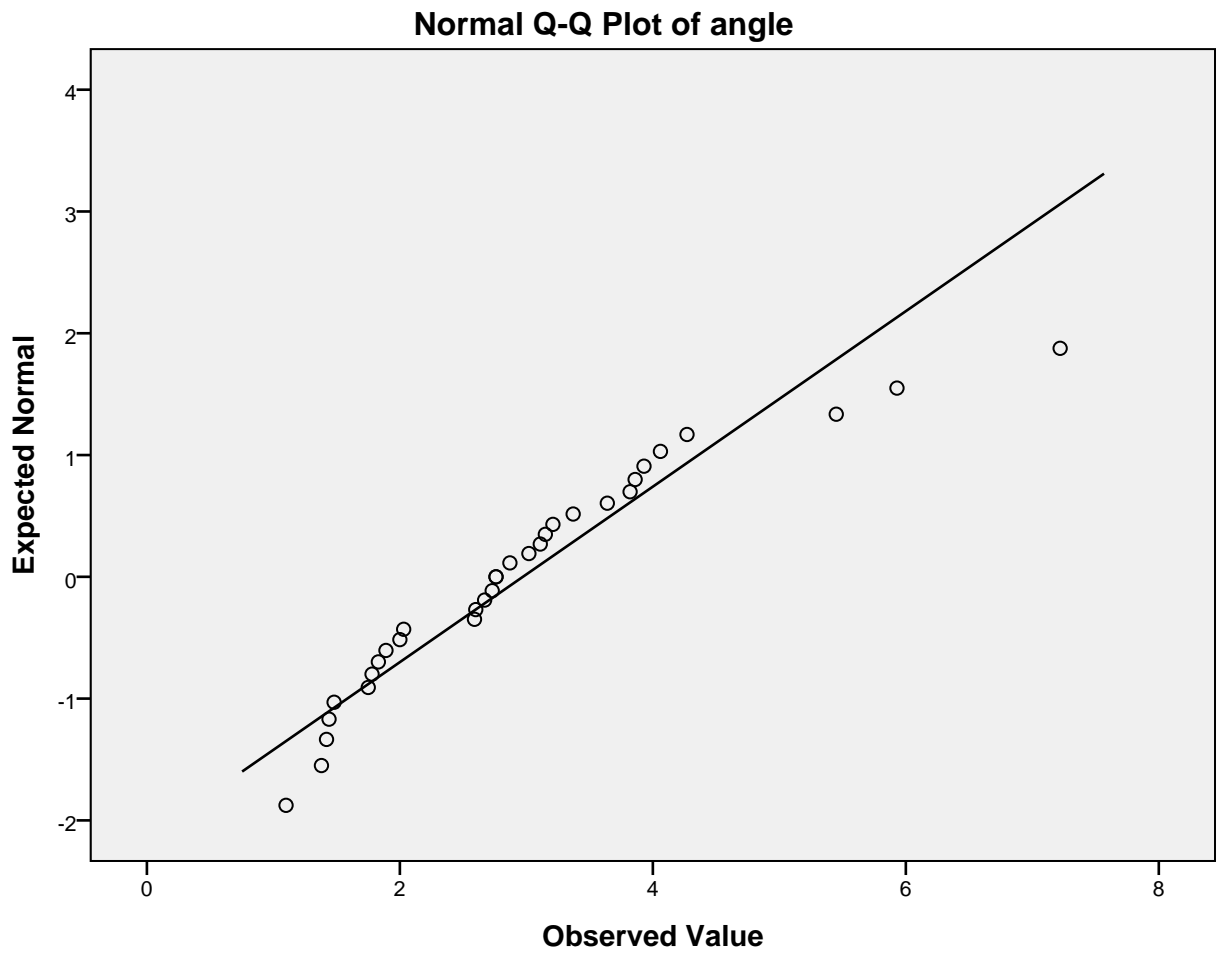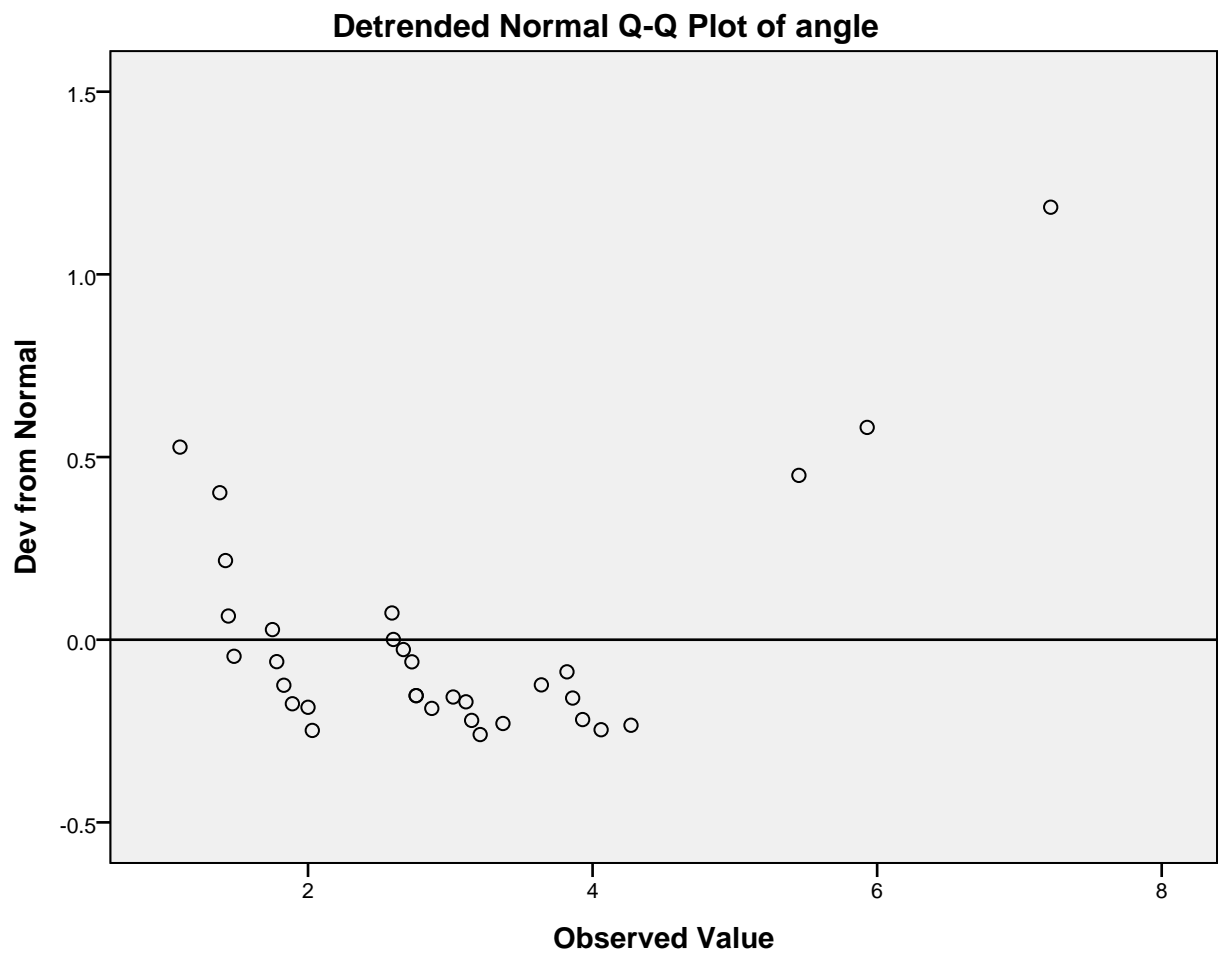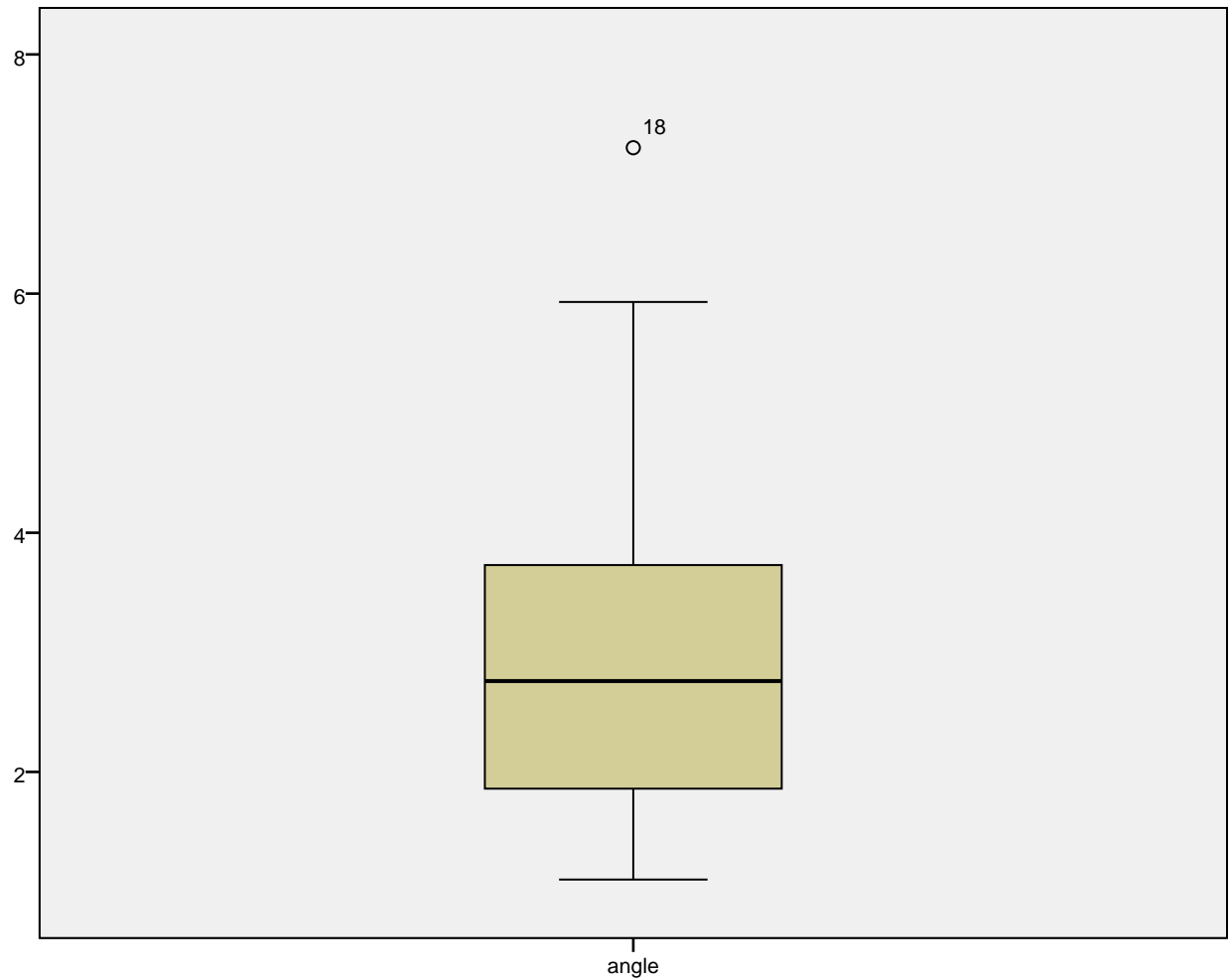
circle_area

```
circle_area Stem-and-Leaf Plot

 Frequency     Stem &  Leaf

     1.00        0 .  9
     8.00        1 .  01123359
     7.00        2 .  0044789
     7.00        3 .  0134555
     5.00        4 .  25666
     2.00        5 .  36
     2.00 Extremes    (>=10.2)

 Stem width:       1.00
 Each leaf:        1 case(s)
```
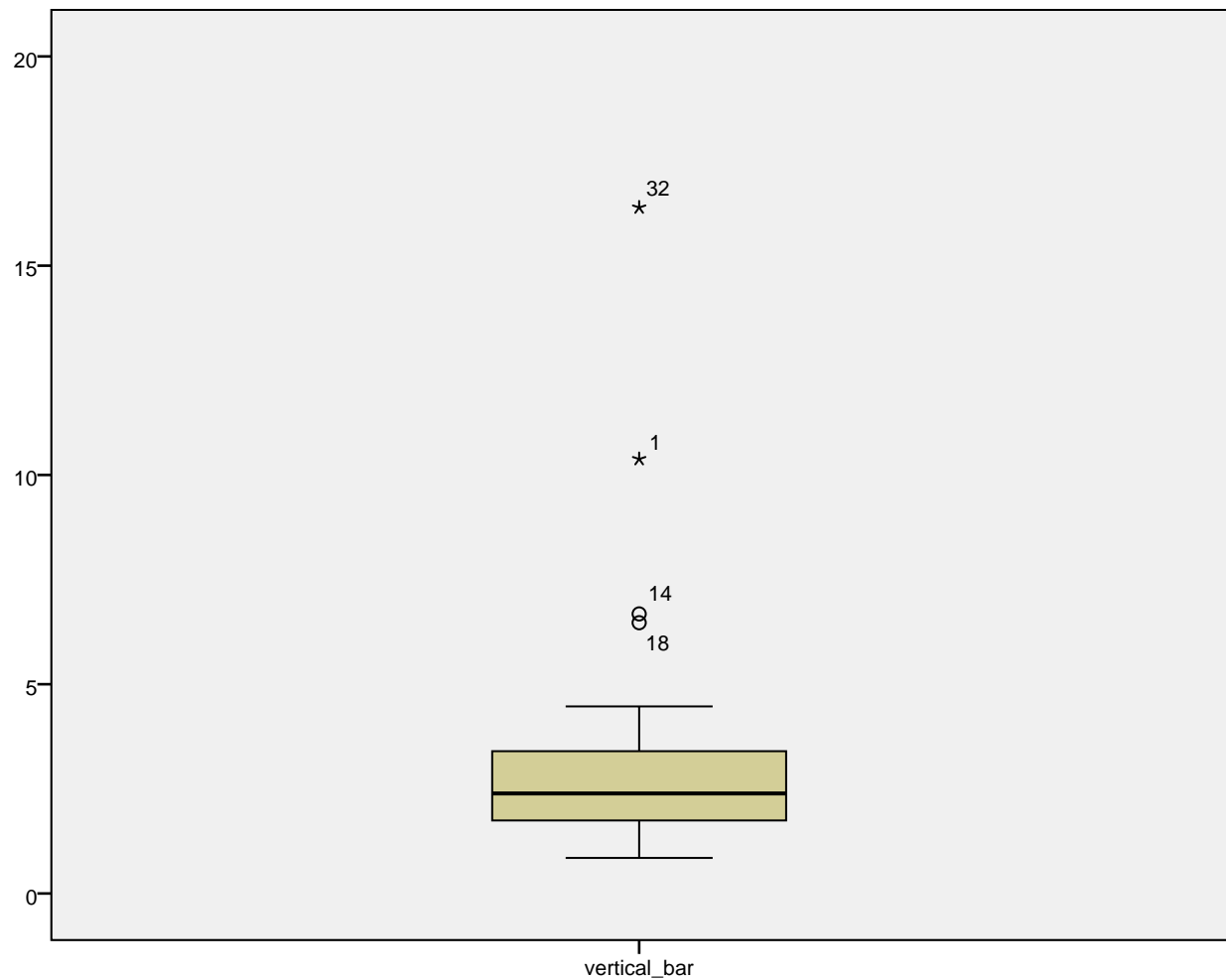
Normal Q-Q Plot of circle_area

Detrended Normal Q-Q Plot of circle_area

circle_area
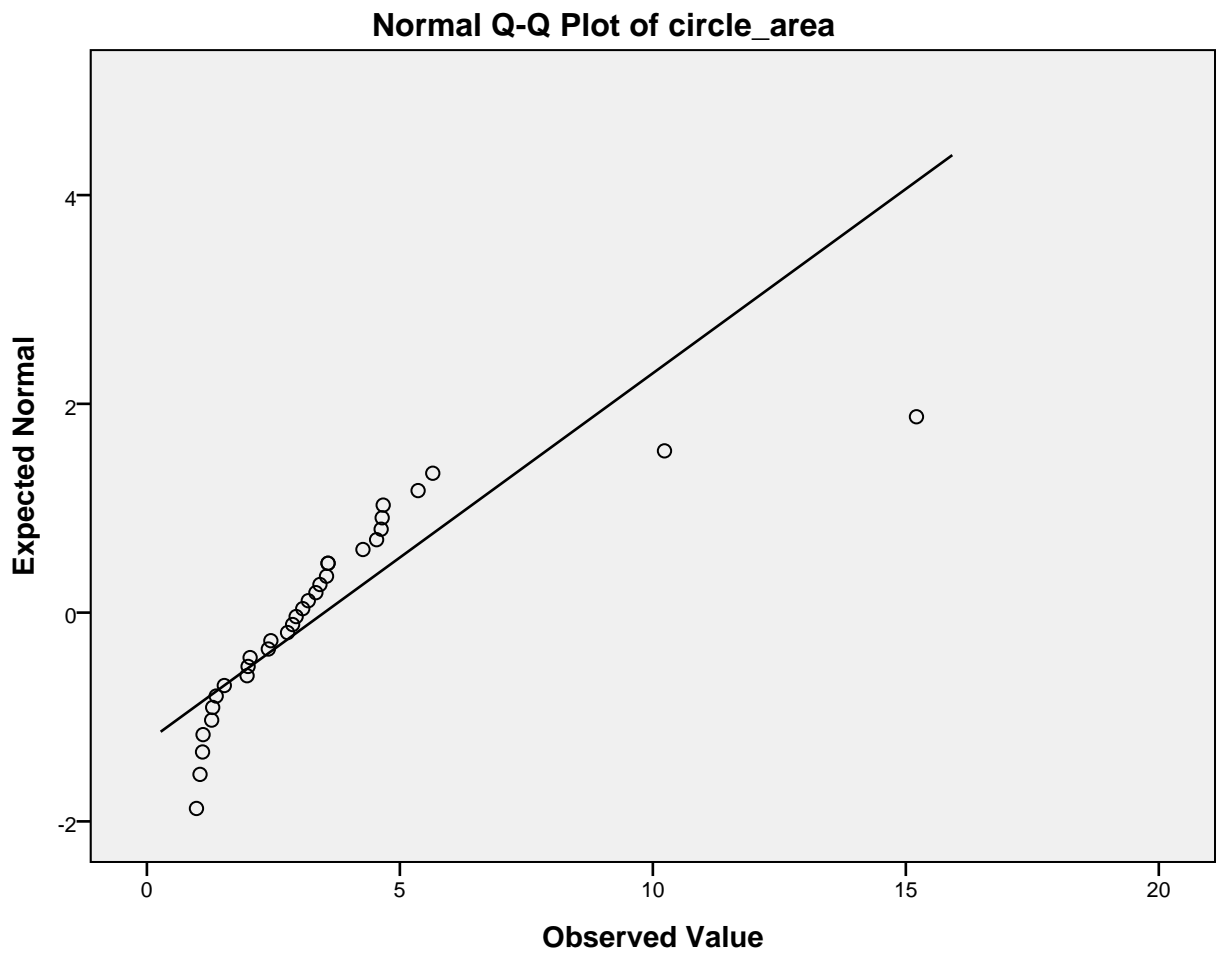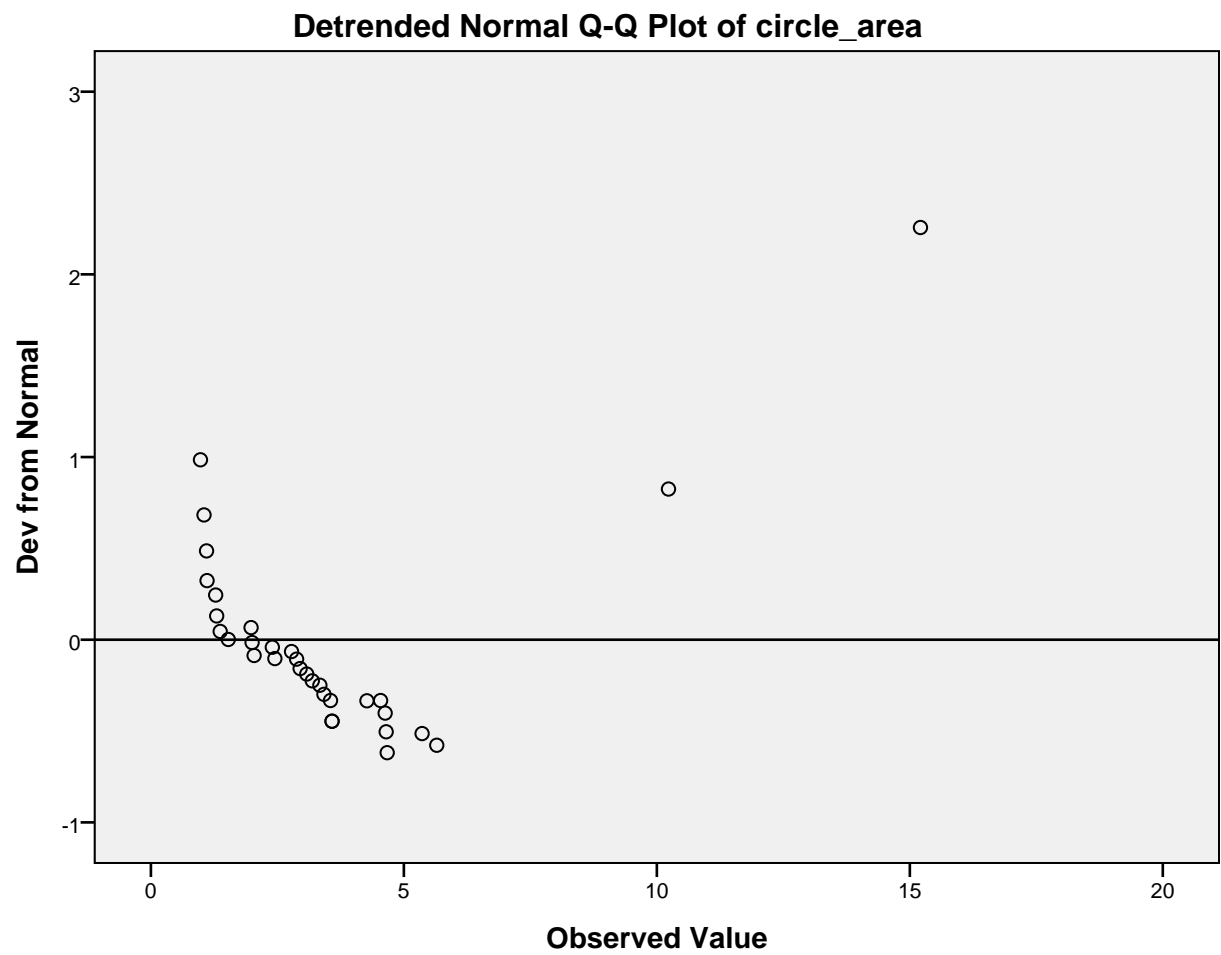
vertical_bar

```
vertical_bar Stem-and-Leaf Plot

 Frequency     Stem &  Leaf

     1.00        0 .  8
     3.00        1 .  113
     6.00        1 .  566689
     6.00        2 .  011122
     5.00        2 .  55558
     3.00        3 .  001
     1.00        3 .  6
     3.00        4 .  024
     4.00 Extremes    (>=6.5)
```

```
Stem width:        1.00
Each leaf:         1 case(s)
```

Normal Q-Q Plot of vertical_bar

Detrended Normal Q-Q Plot of vertical_bar

vertical_bar
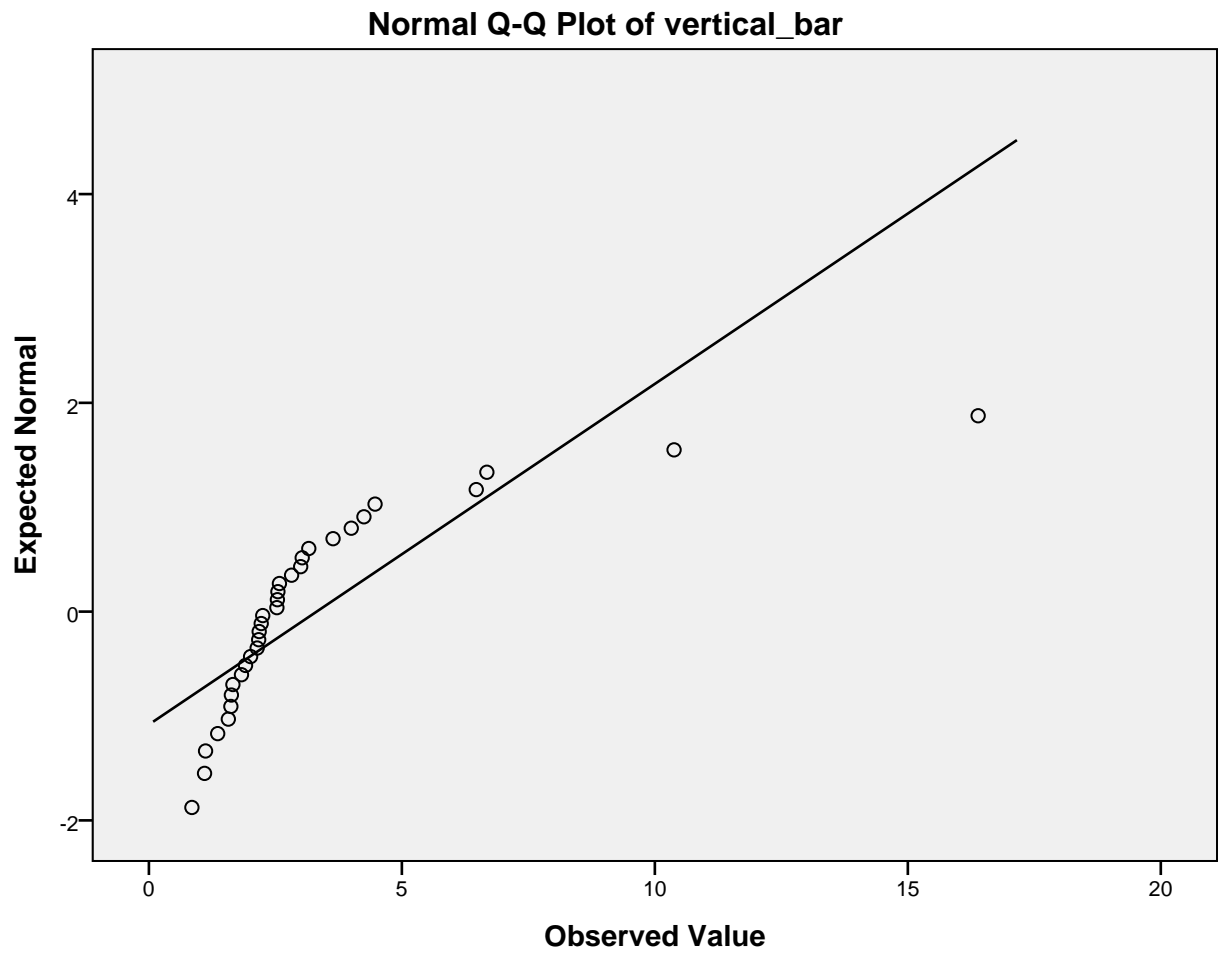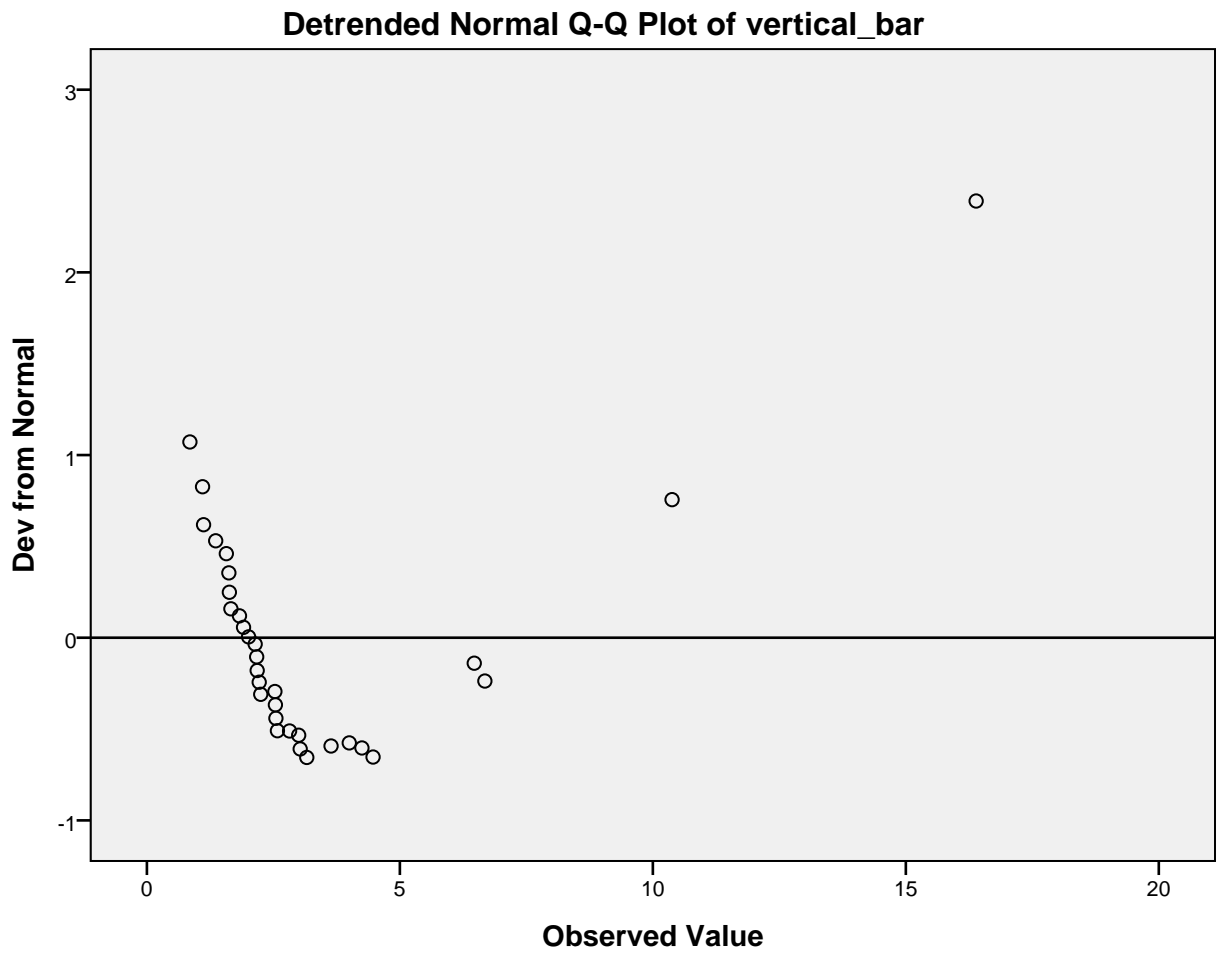
horizontal_curve

```
horizontal_curve Stem-and-Leaf Plot

 Frequency     Stem &  Leaf

     3.00         1 .  466
    11.00         2 .  01334677999
     9.00         3 .  002247889
     5.00         4 .  01233
     1.00         5 .  1
     1.00         6 .  2
     2.00 Extremes    (>=6.7)

 Stem width:      1.00
 Each leaf:       1 case(s)
```

Normal Q-Q Plot of horizontal_curve

Detrended Normal Q-Q Plot of horizontal_curve

horizontal_curve
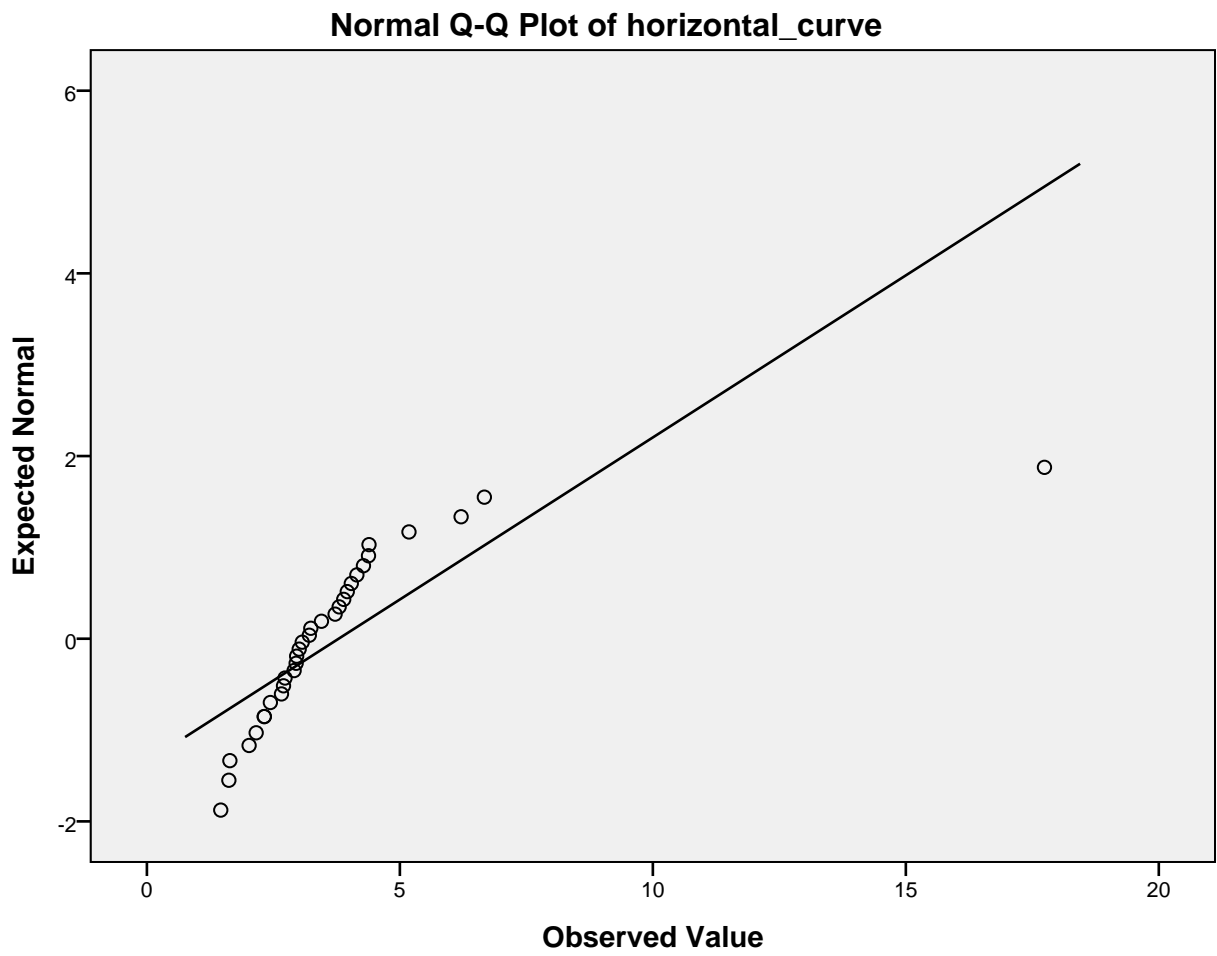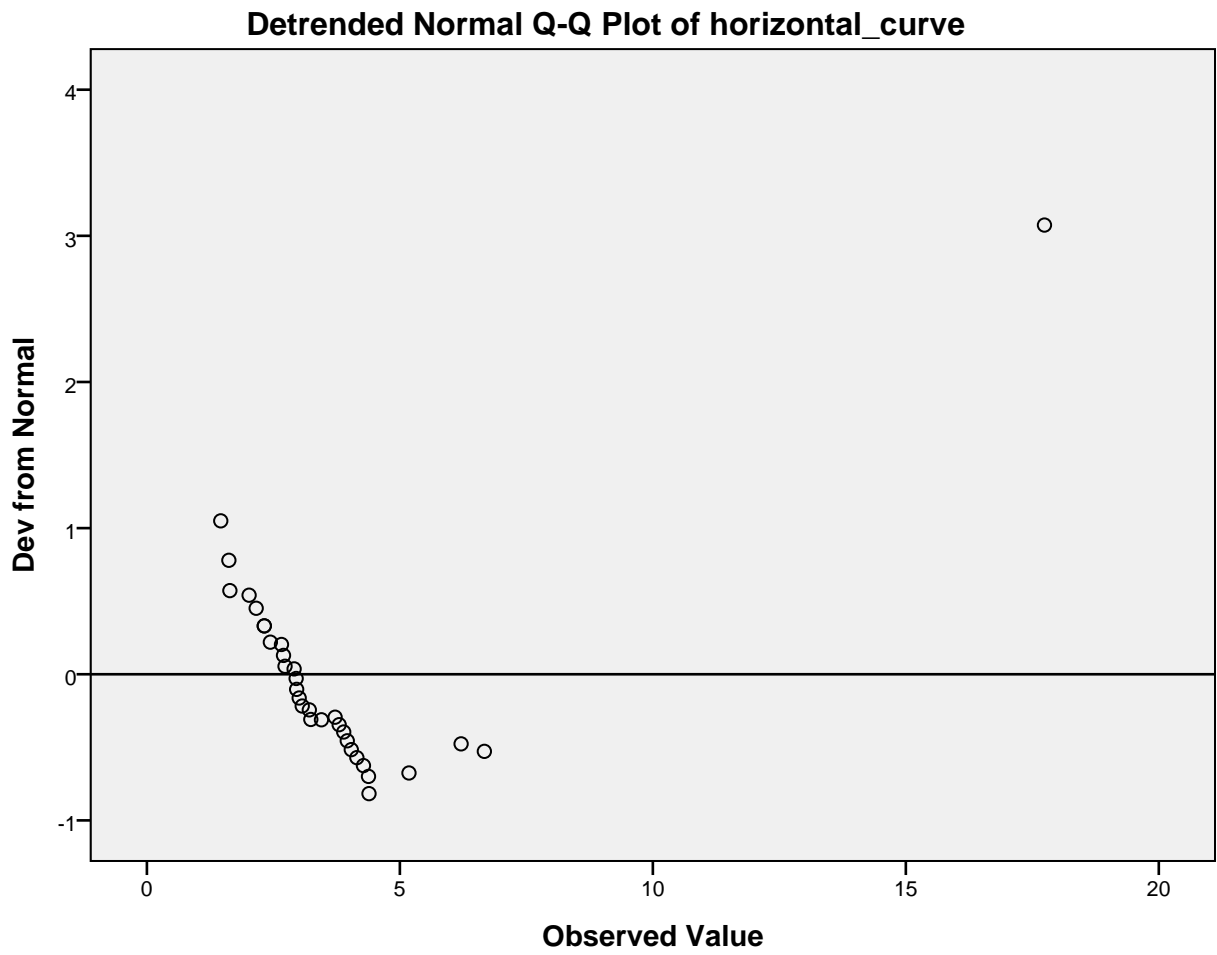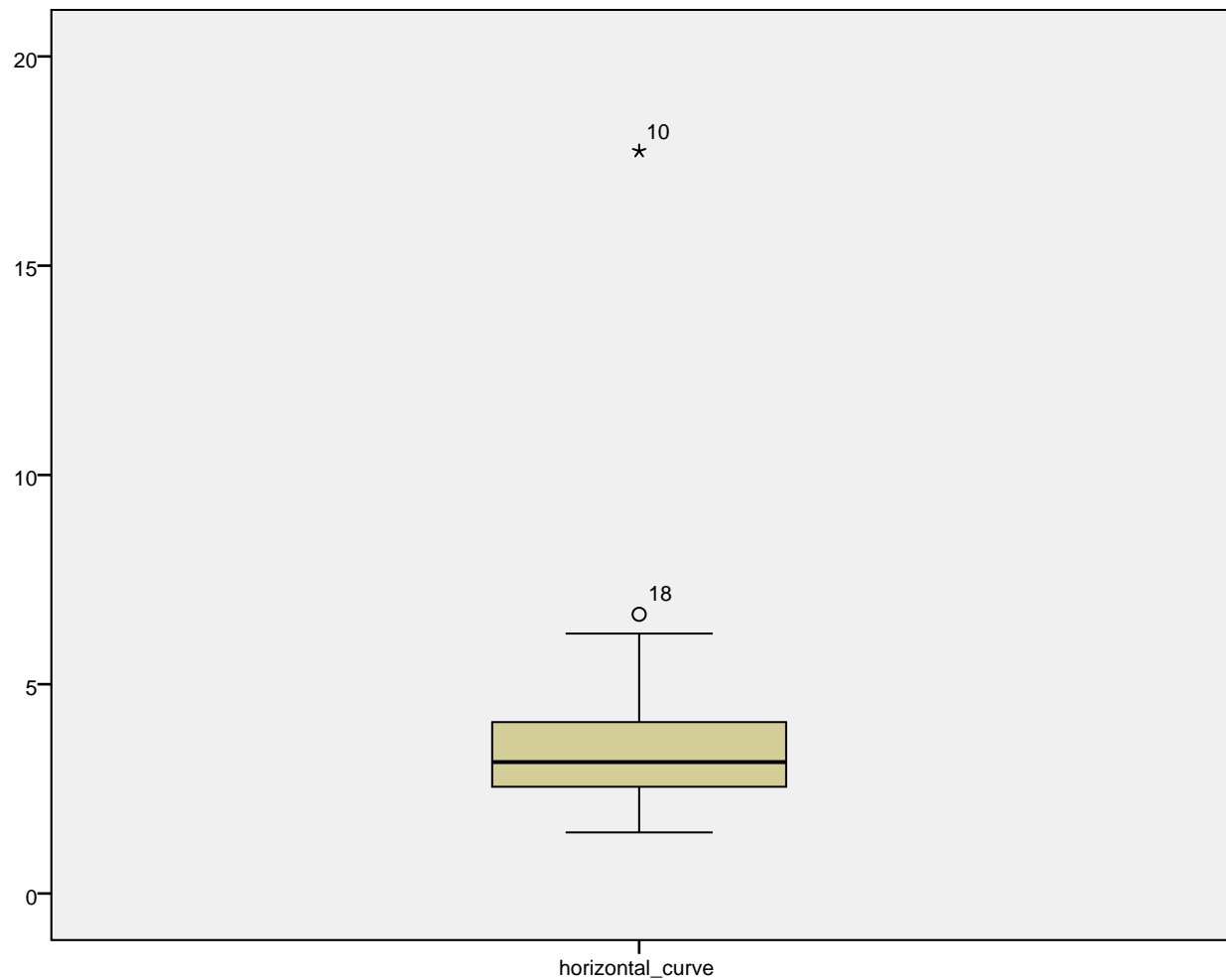
horizontal_direction

```
horizontal_direction Stem-and-Leaf Plot

 Frequency     Stem &  Leaf

     5.00          1 .  35567
     4.00          2 .  2478
     8.00          3 .  00134678
     7.00          4 .  1235569
     2.00          5 .  01
     2.00          6 .  05
     1.00          7 .  2
     3.00 Extremes     (>=8.9)

 Stem width:       1.00
```

Each leaf: 1 case(s)

Normal Q-Q Plot of horizontal_direction

Detrended Normal Q-Q Plot of horizontal_direction

horizontal_direction
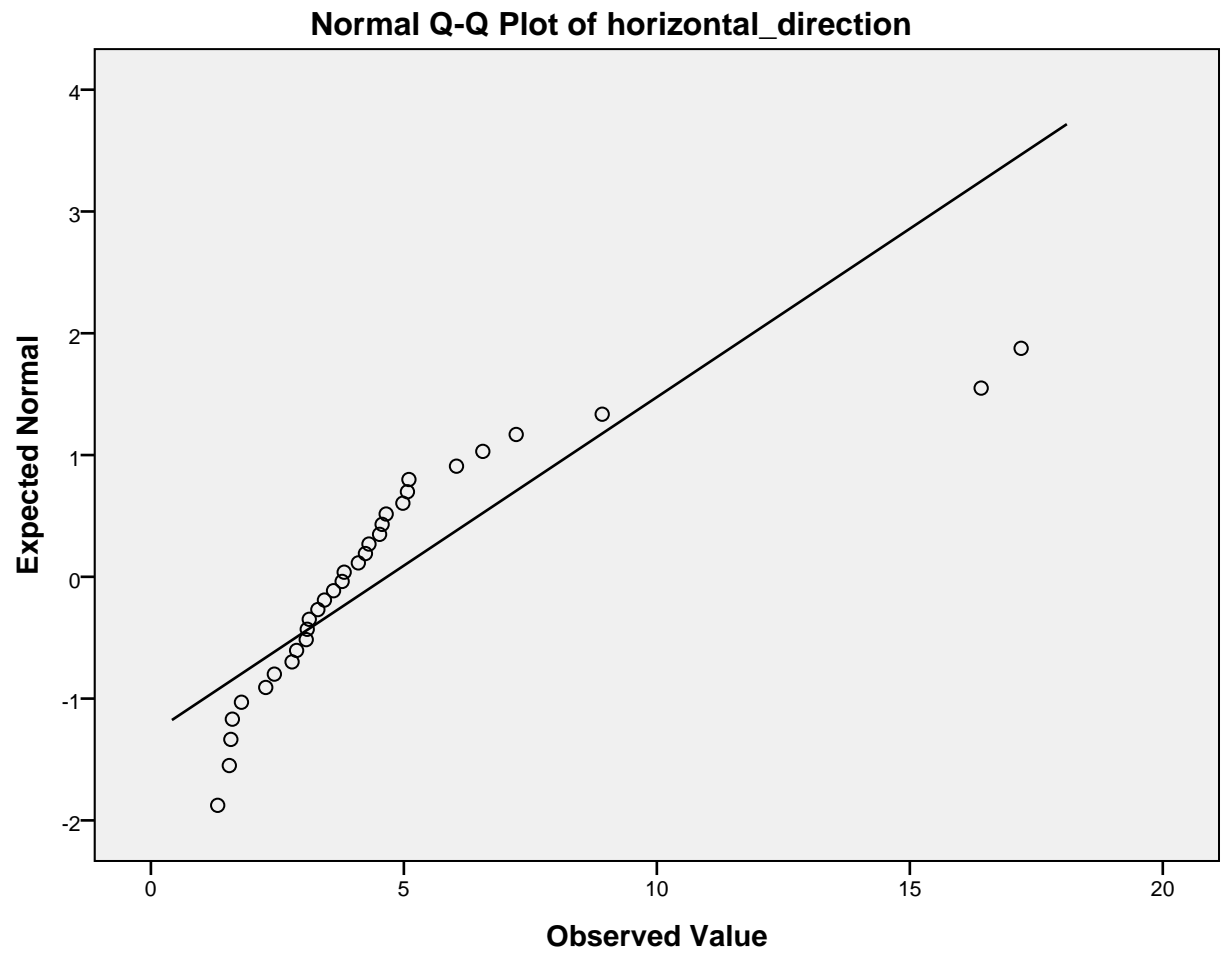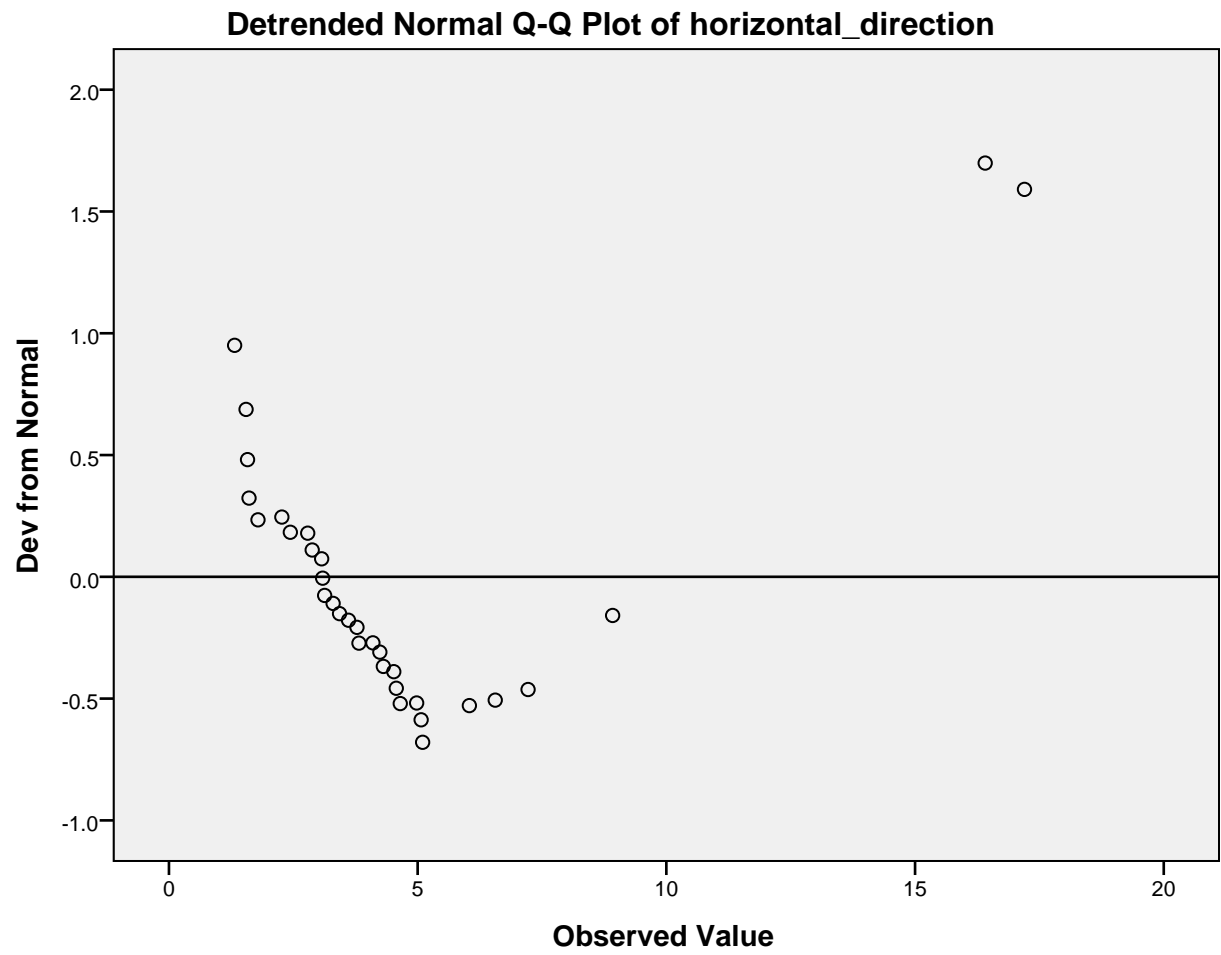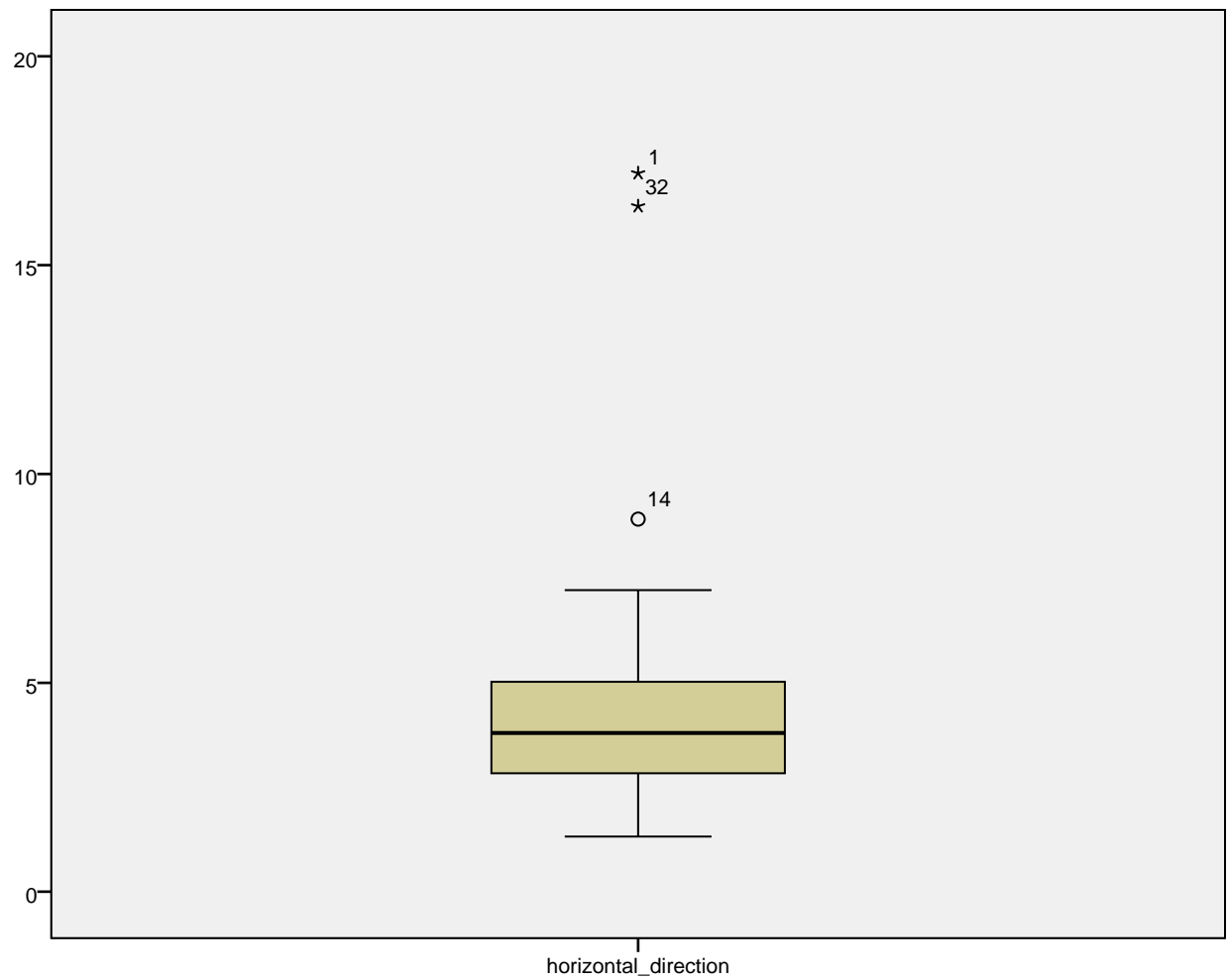
horizontal_slider

horizontal_slider Stem-and-Leaf Plot

```
 Frequency     Stem &  Leaf

     1.00        0 .  9
     6.00        1 .  023556
    12.00        2 .  012233444468
     4.00        3 .  1248
     5.00        4 .  12357
     1.00        5 .  2
     3.00        6 .  059

 Stem width:      1.00
 Each leaf:       1 case(s)
```

Normal Q-Q Plot of horizontal_slider

Detrended Normal Q-Q Plot of horizontal_slider

horizontal_slider
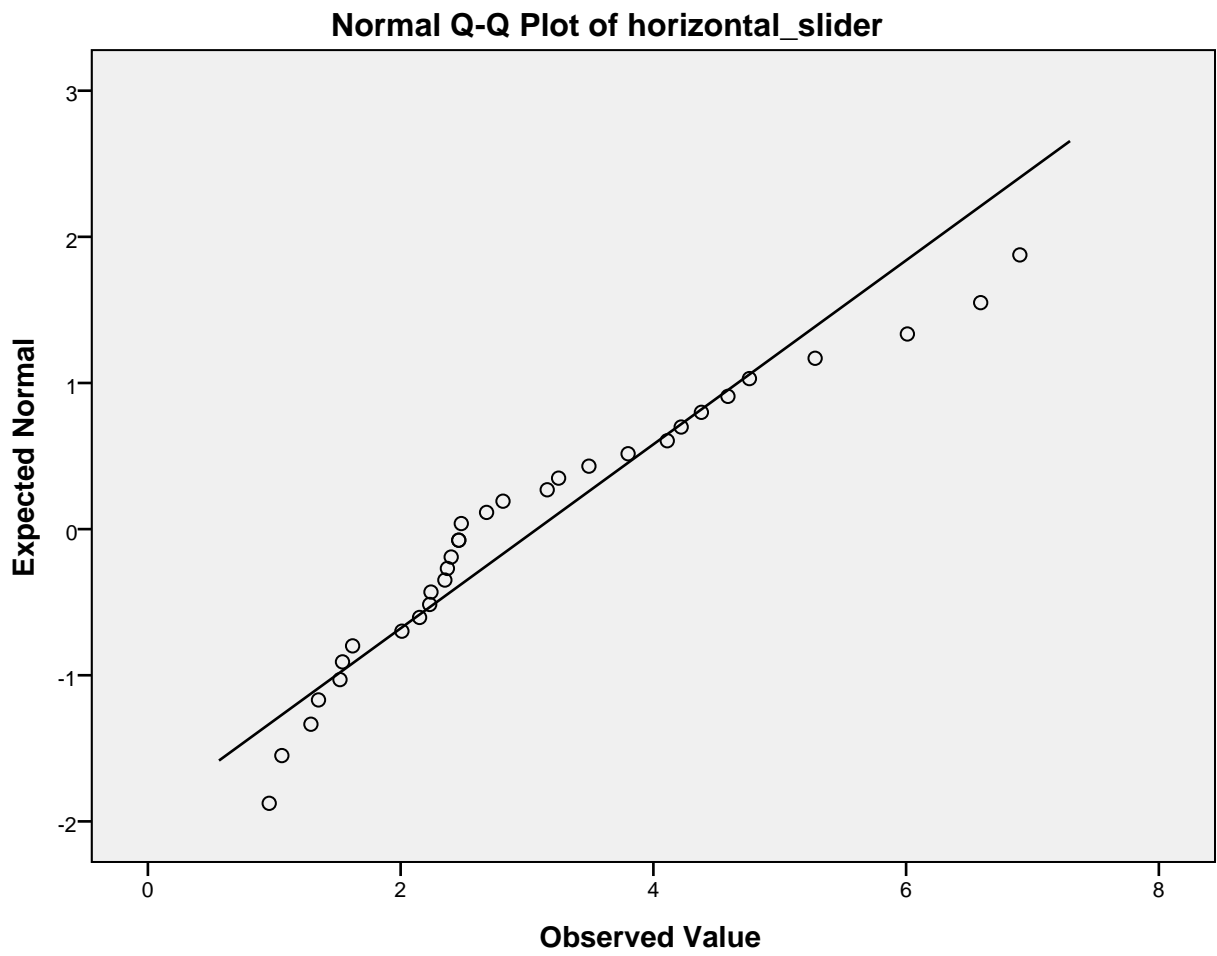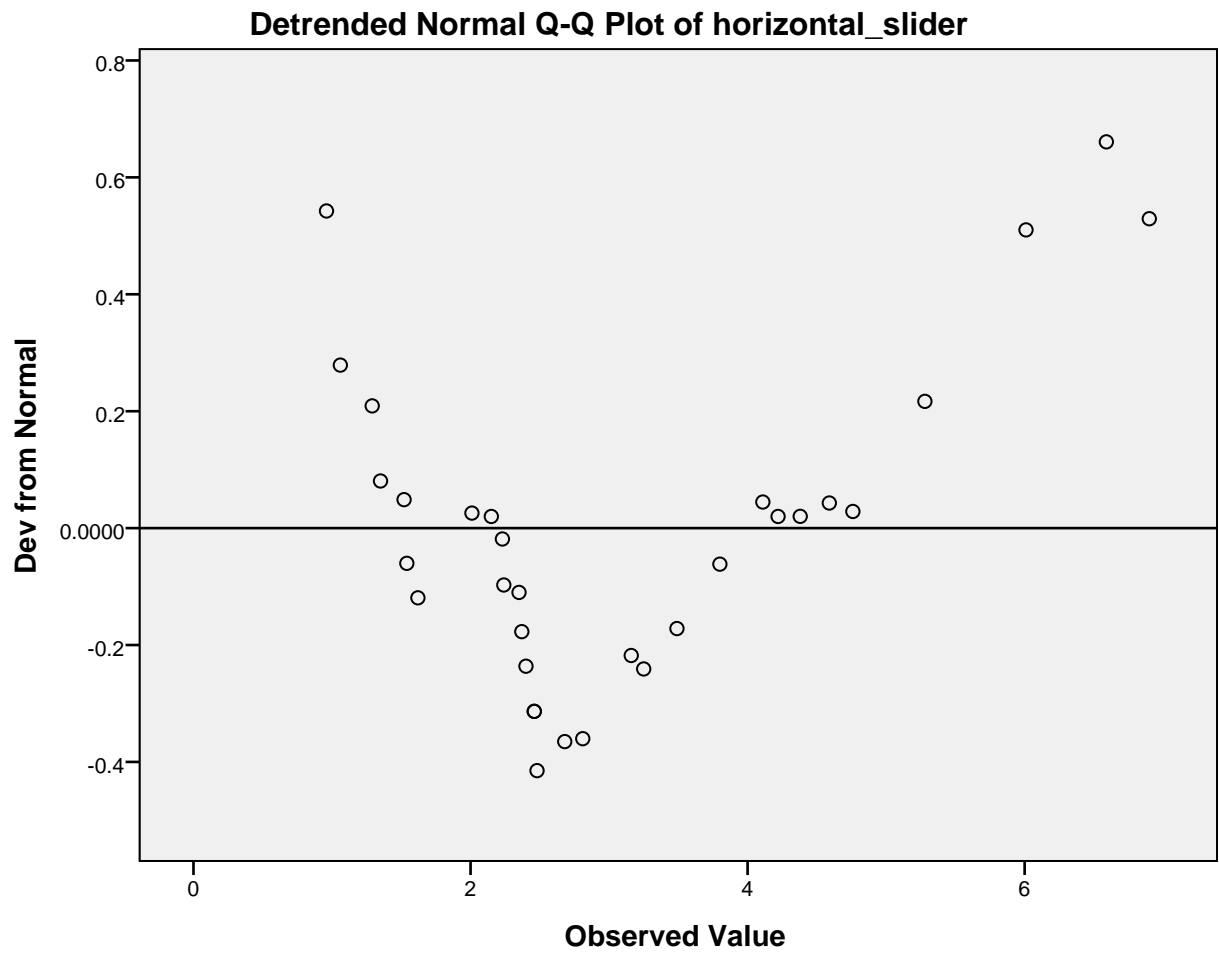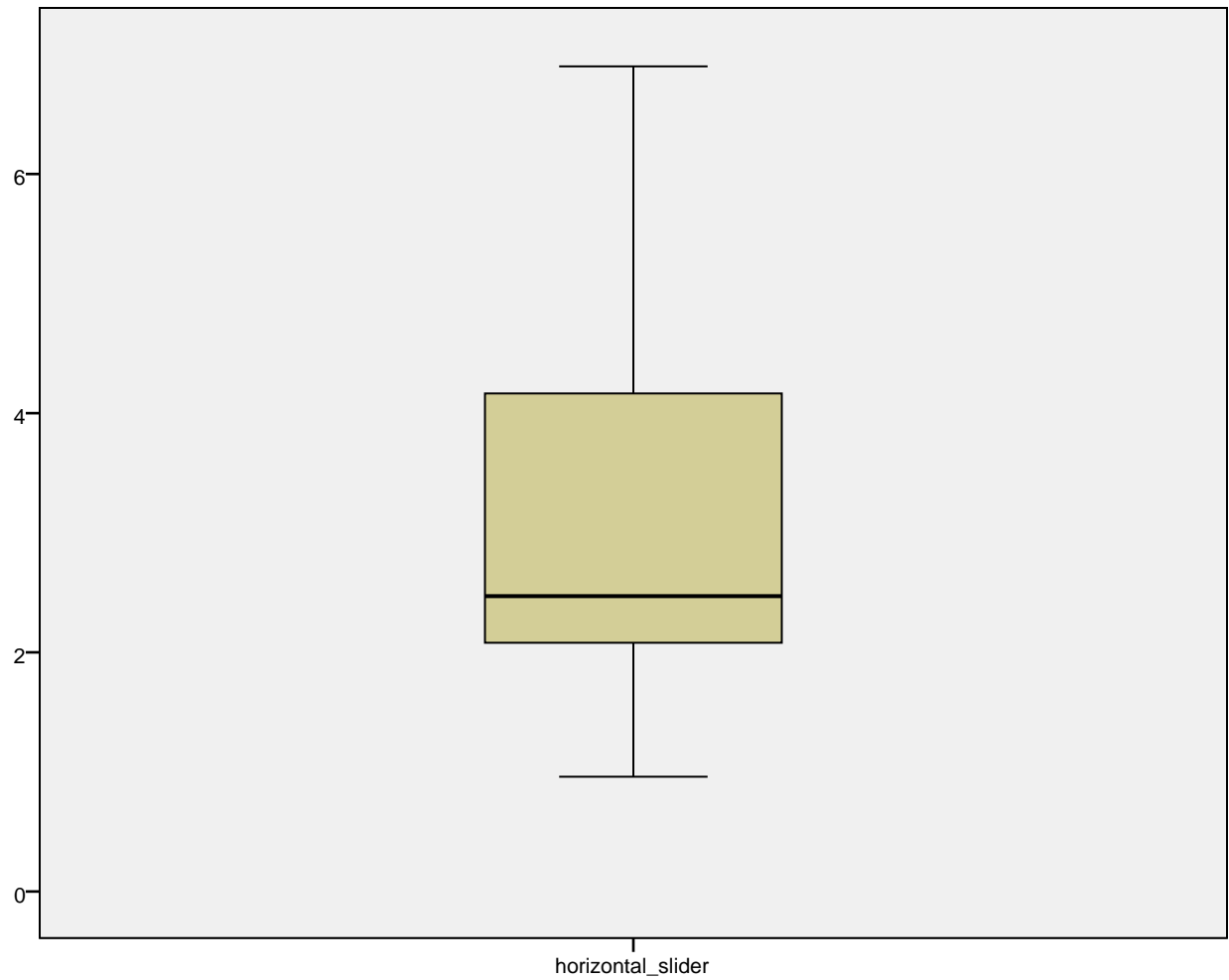
vertical_curve

vertical_curve Stem-and-Leaf Plot

```
 Frequency     Stem &  Leaf

     3.00        2 .  223
     6.00        2 .  666899
     9.00        3 .  000122344
     3.00        3 .  689
     3.00        4 .  001
      .00        4 .
     2.00        5 .  23
     1.00        5 .  6
      .00        6 .
     1.00        6 .  8
```

```
     4.00 Extremes    (>=7.5)


Stem width:        1.00
Each leaf:         1 case(s)
```

Normal Q-Q Plot of vertical_curve

Detrended Normal Q-Q Plot of vertical_curve

vertical_curve
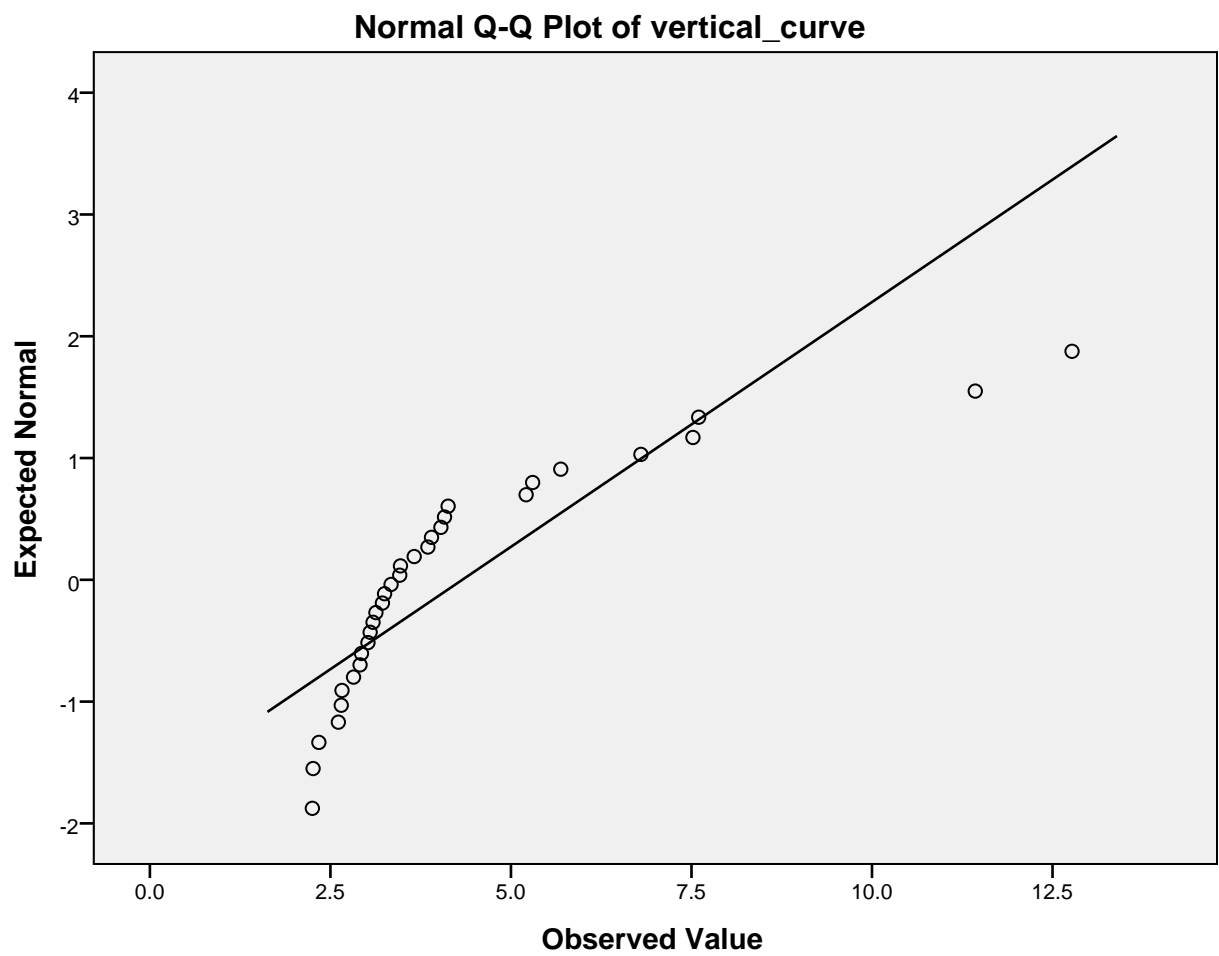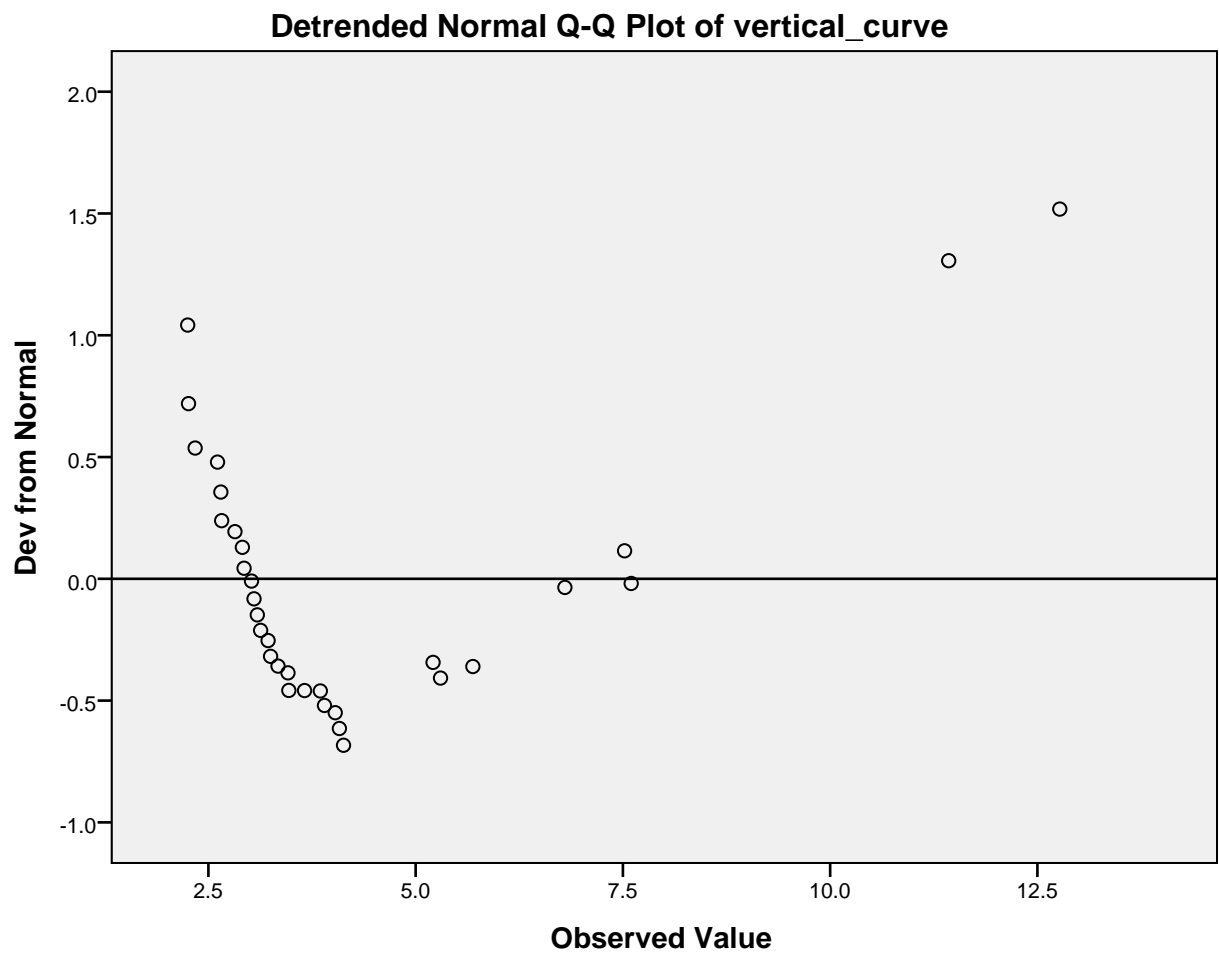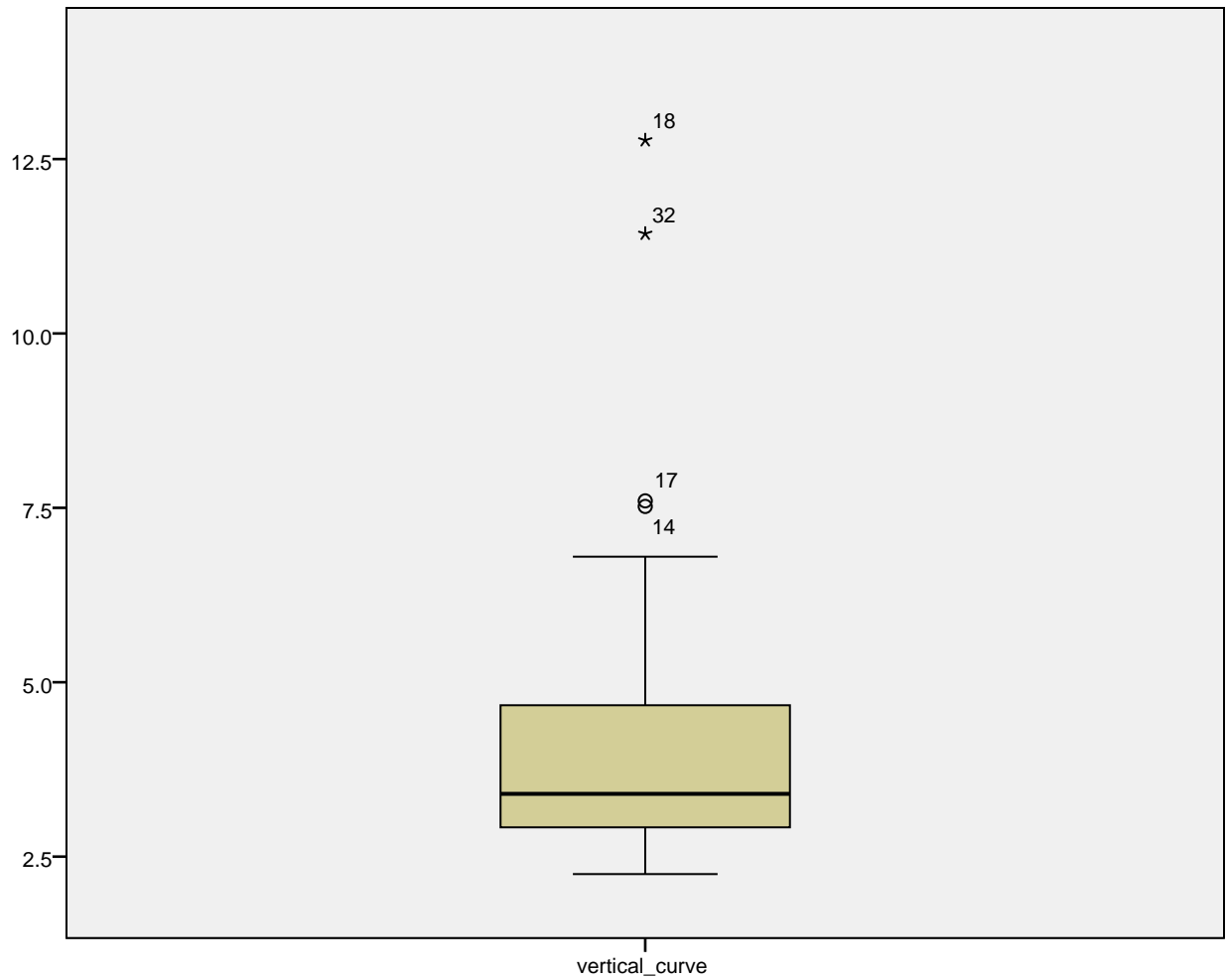
square_area

```
square_area Stem-and-Leaf Plot

 Frequency     Stem &  Leaf

     3.00         0 .  011
    10.00         0 .  2222223333
     9.00         0 .  444444445
     5.00         0 .  66667
     1.00         0 .  8
     2.00         1 .  01
     2.00 Extremes    (>=16)


 Stem width:      10.00
 Each leaf:        1 case(s)
```
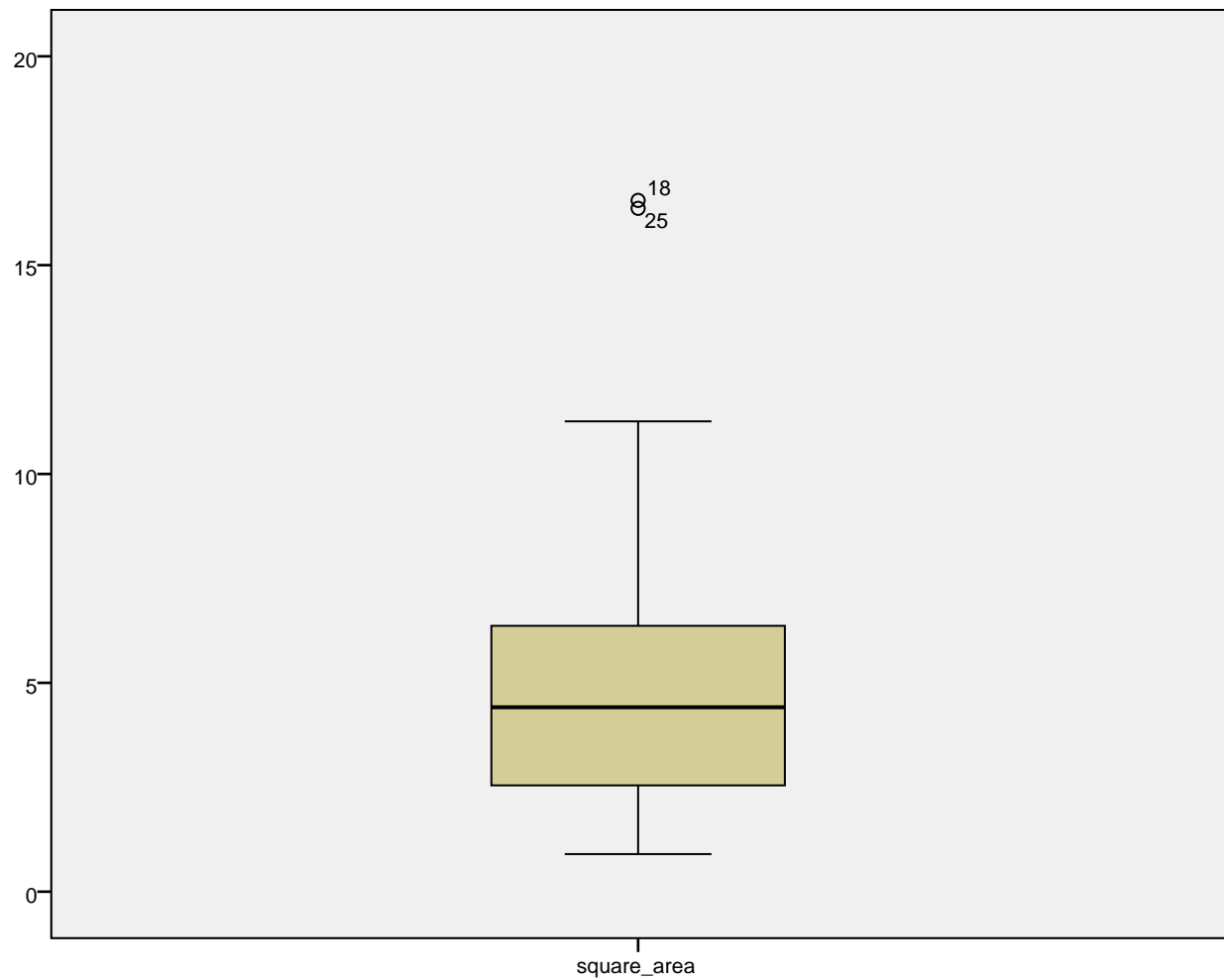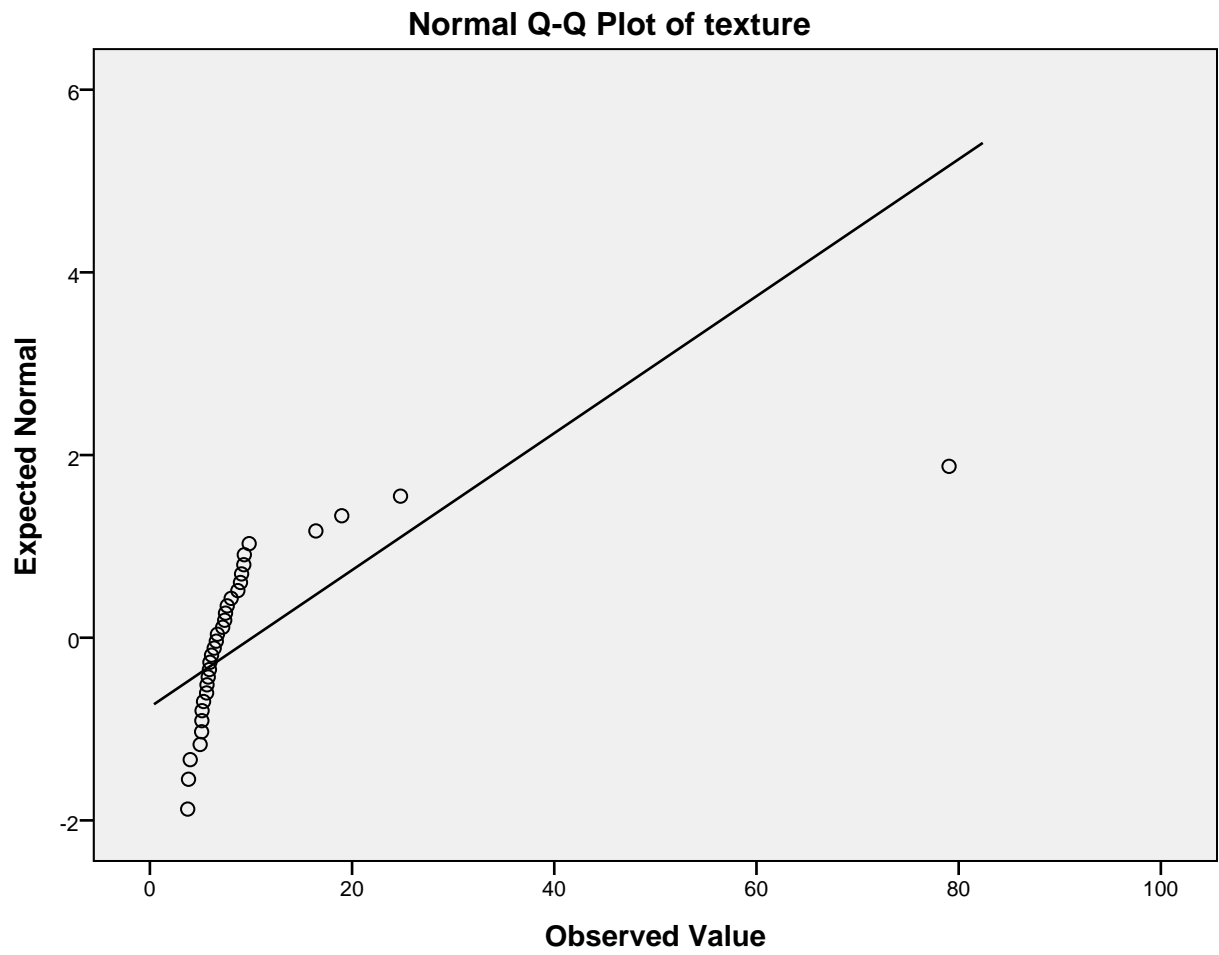
Normal Q-Q Plot of square_area

Detrended Normal Q-Q Plot of square_area

square_area
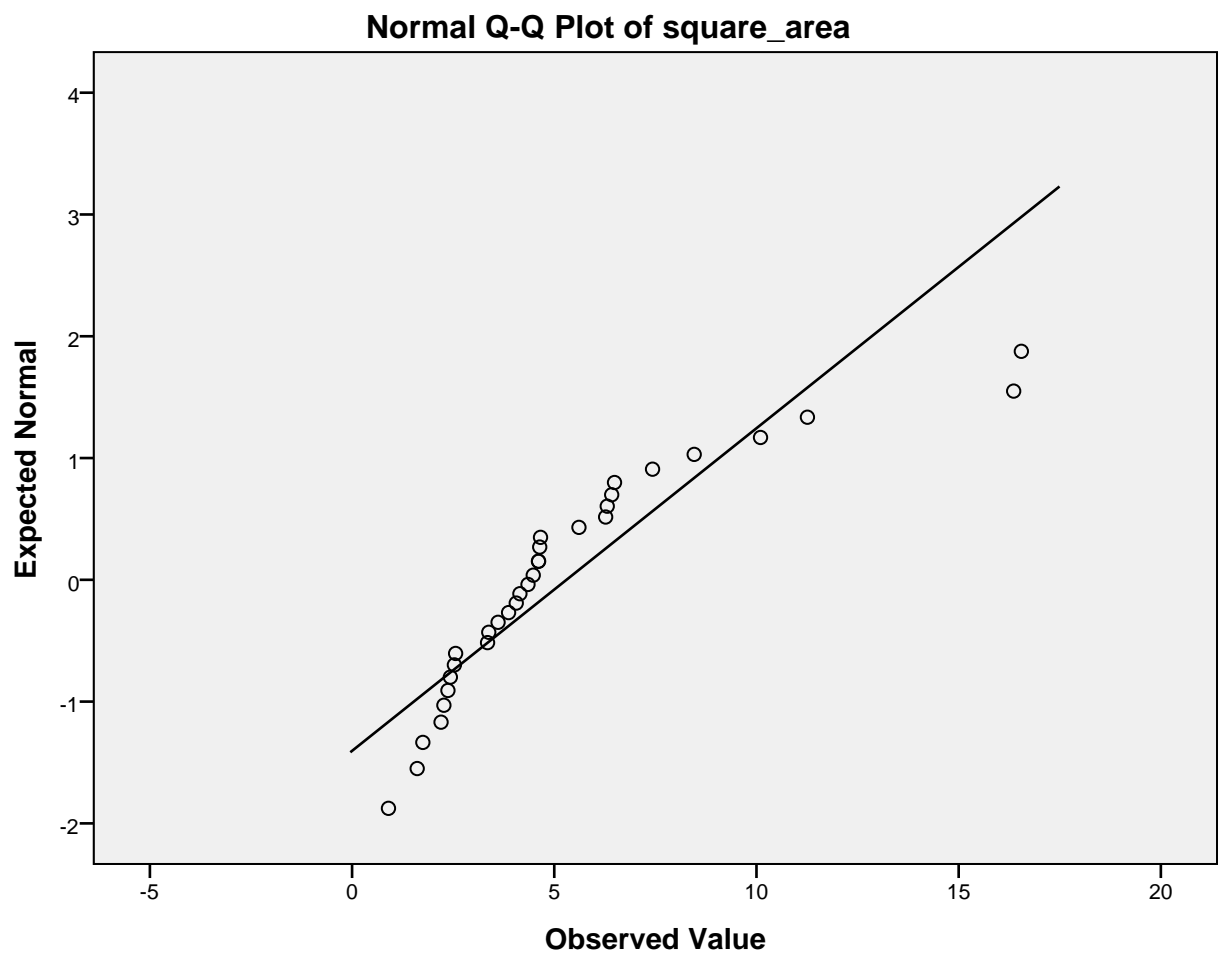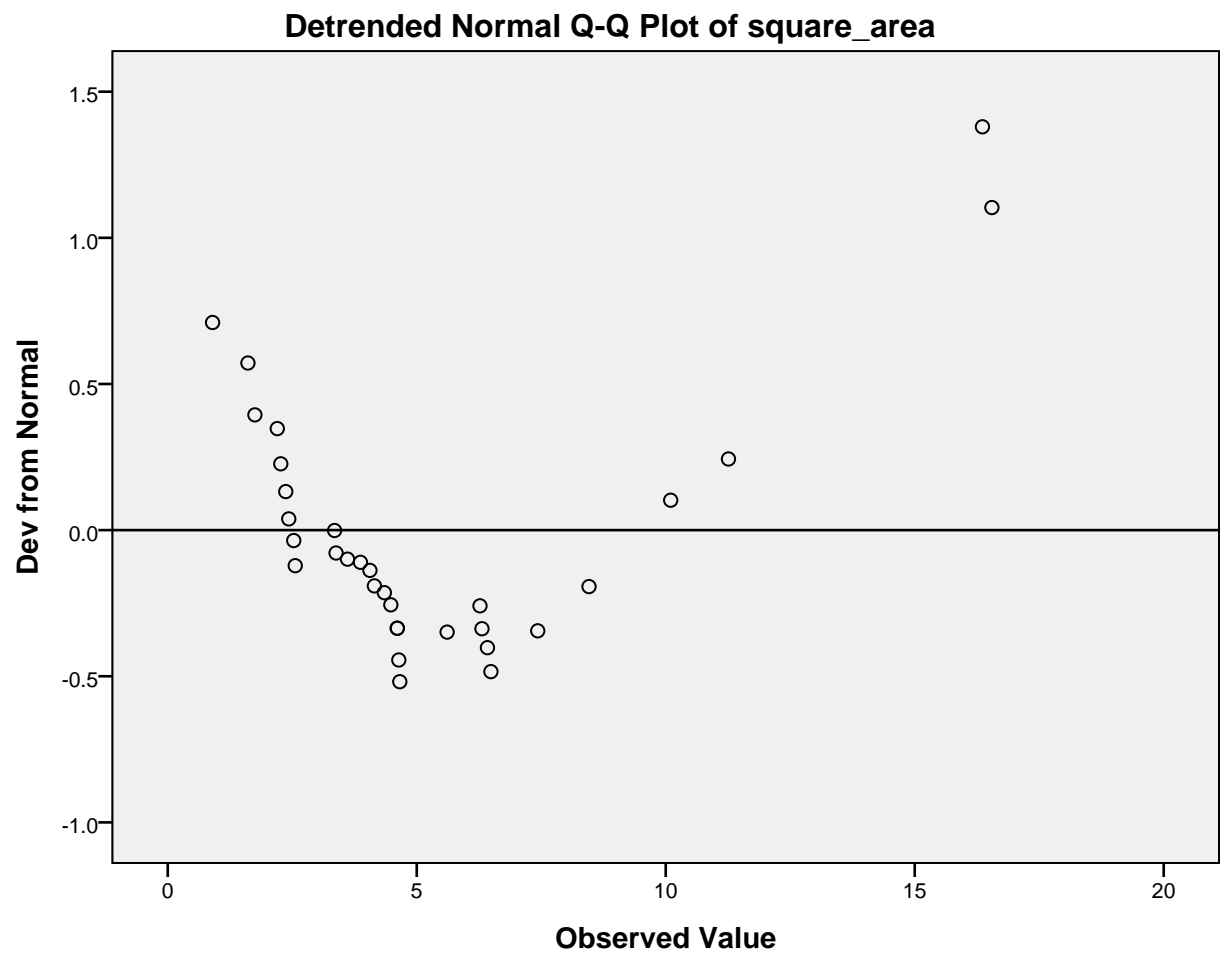
texture

texture Stem-and-Leaf Plot

```
 Frequency    Stem &  Leaf

     3.00        3 .  789
     1.00        4 .  9
     9.00        5 .  111366789
     4.00        6 .  1356
     4.00        7 .  2446
     3.00        8 .  079
     4.00        9 .  0238
     4.00 Extremes    (>=16.4)

 Stem width:      1.00
```
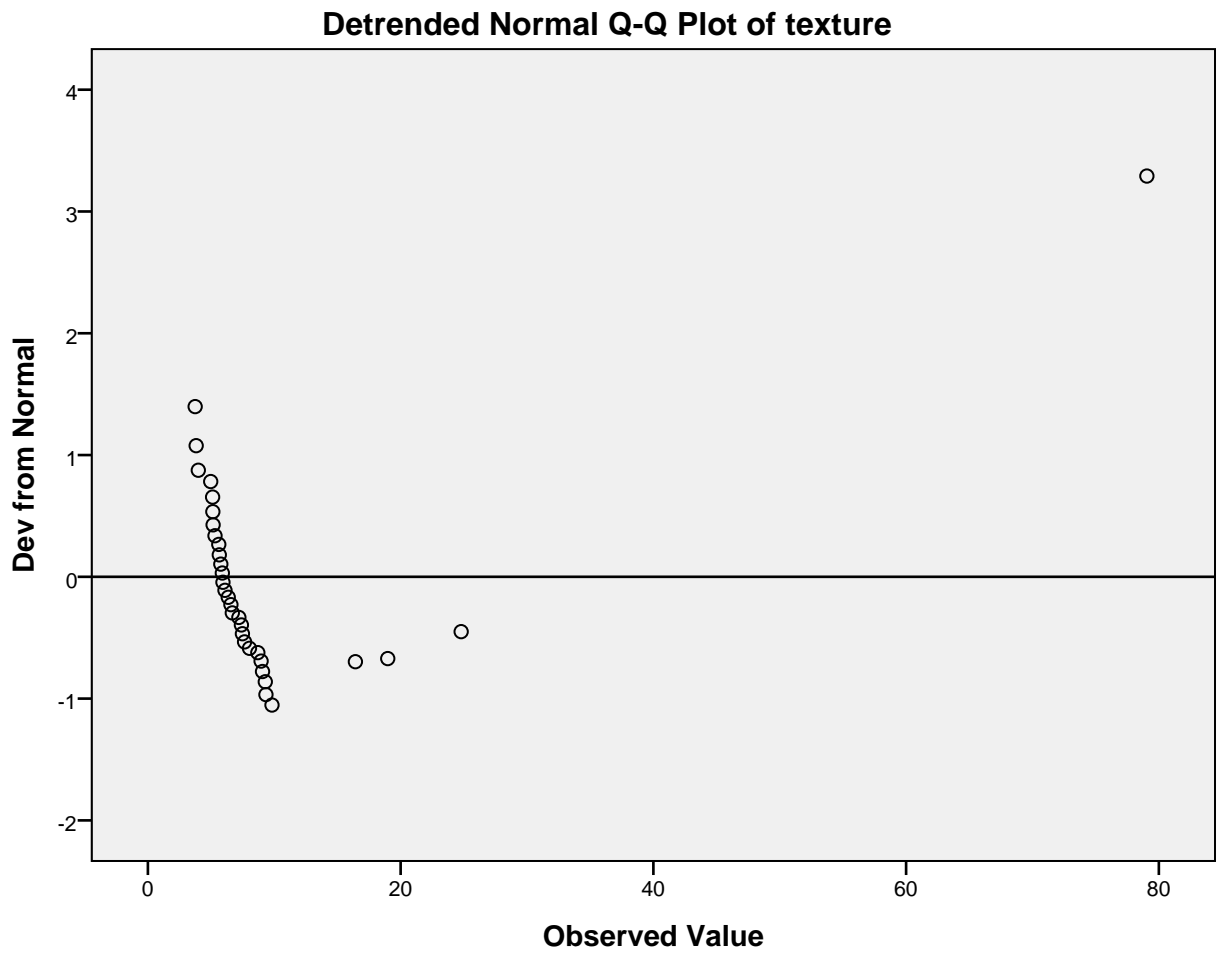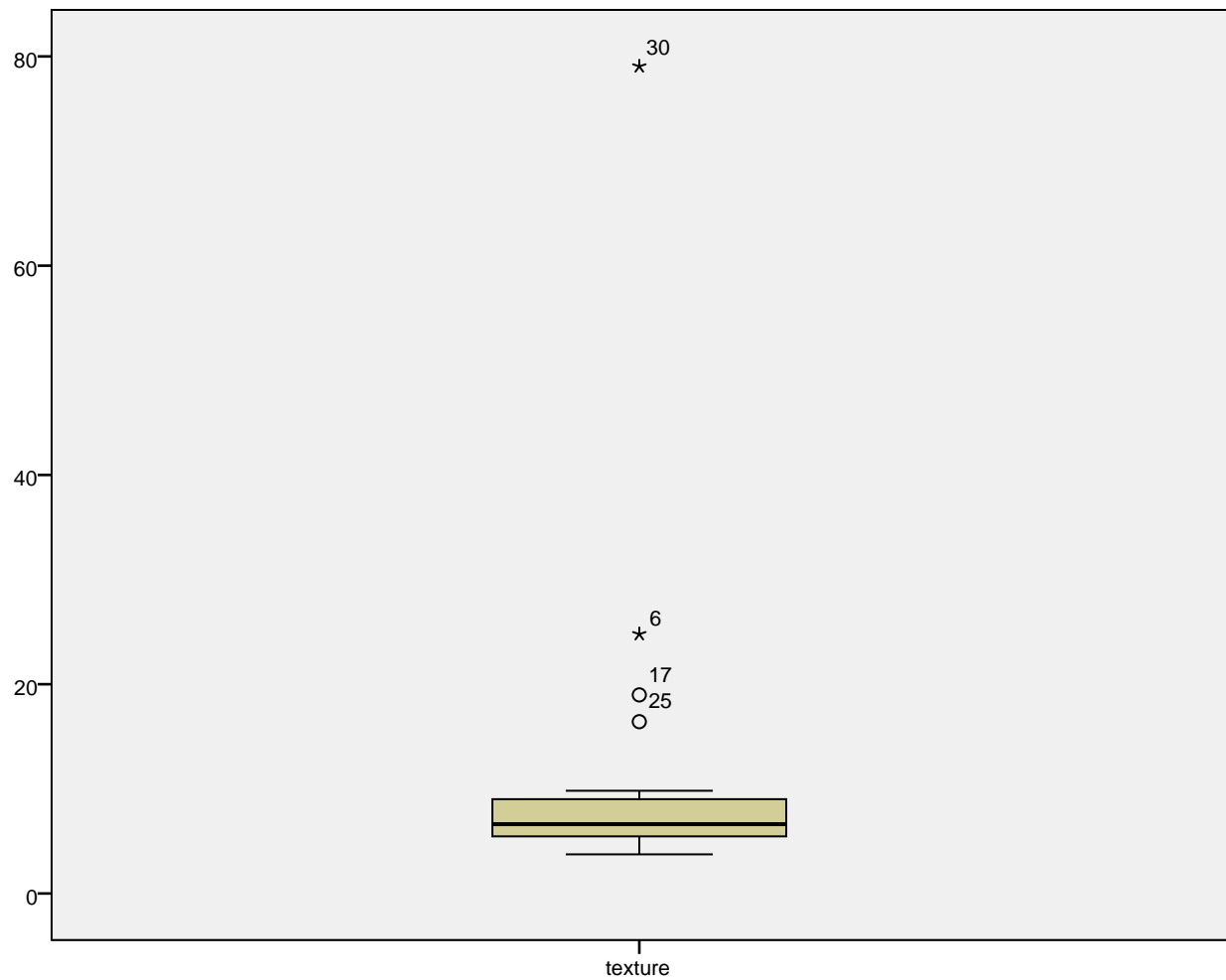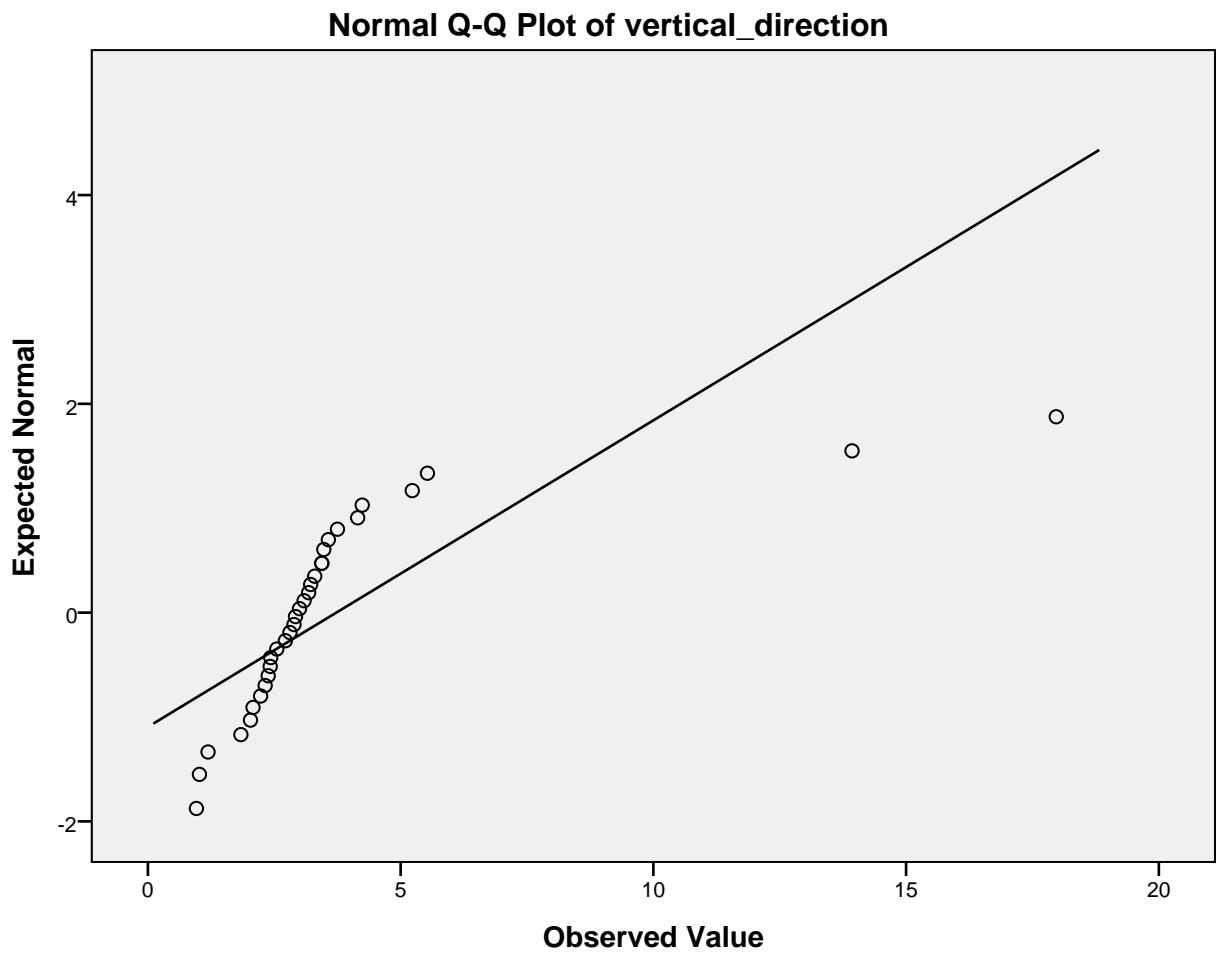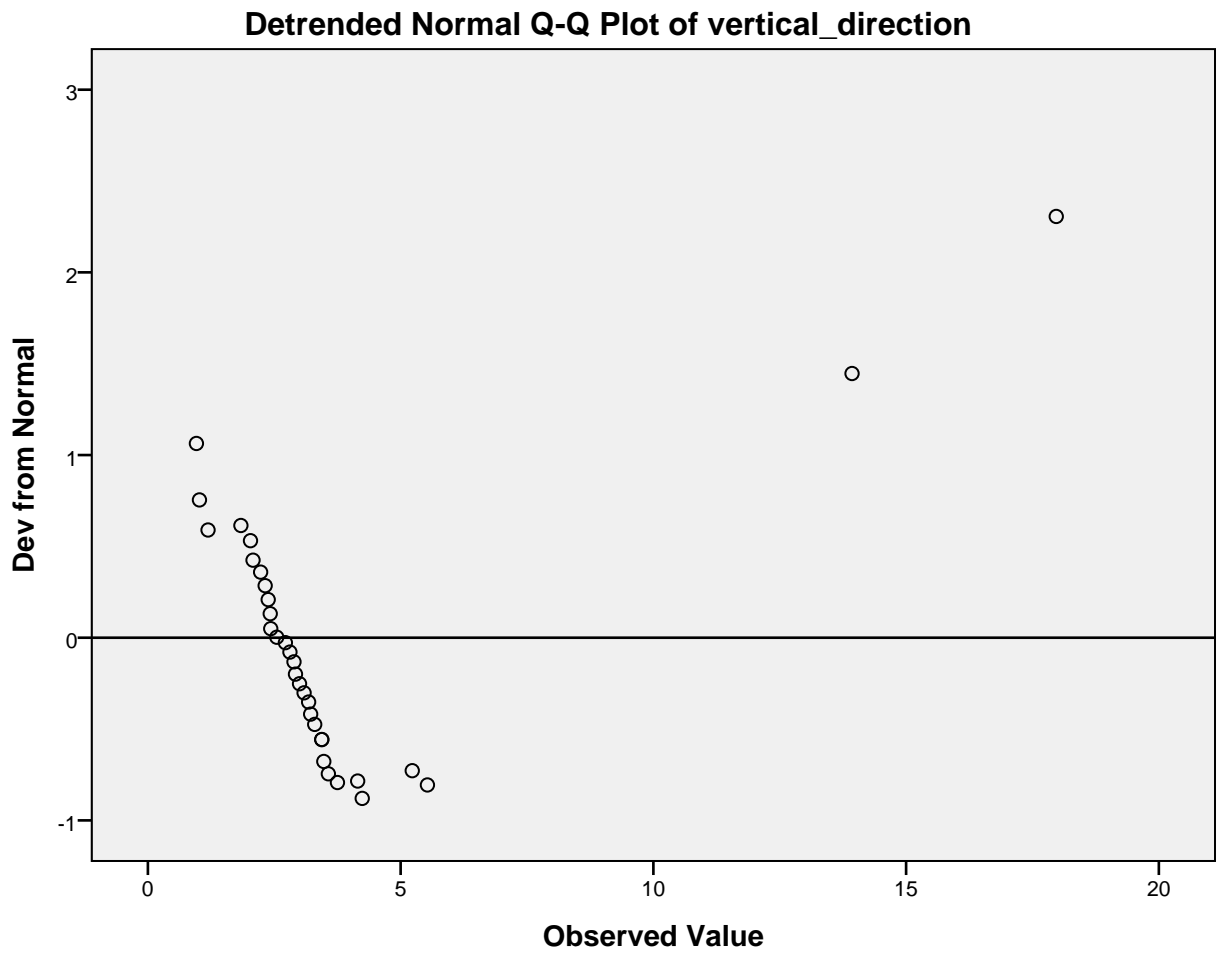
Each leaf: 1 case(s)

Normal Q-Q Plot of texture

Detrended Normal Q-Q Plot of texture

texture

vertical_direction

```
vertical_direction Stem-and-Leaf Plot

 Frequency     Stem &  Leaf

     1.00        0 .  9
     3.00        1 .  018
    12.00        2 .  002334457889
    10.00        3 .  0012344457
     2.00        4 .  12
     1.00        5 .  2
     3.00 Extremes    (>=5.5)


 Stem width:      1.00
 Each leaf:       1 case(s)
```
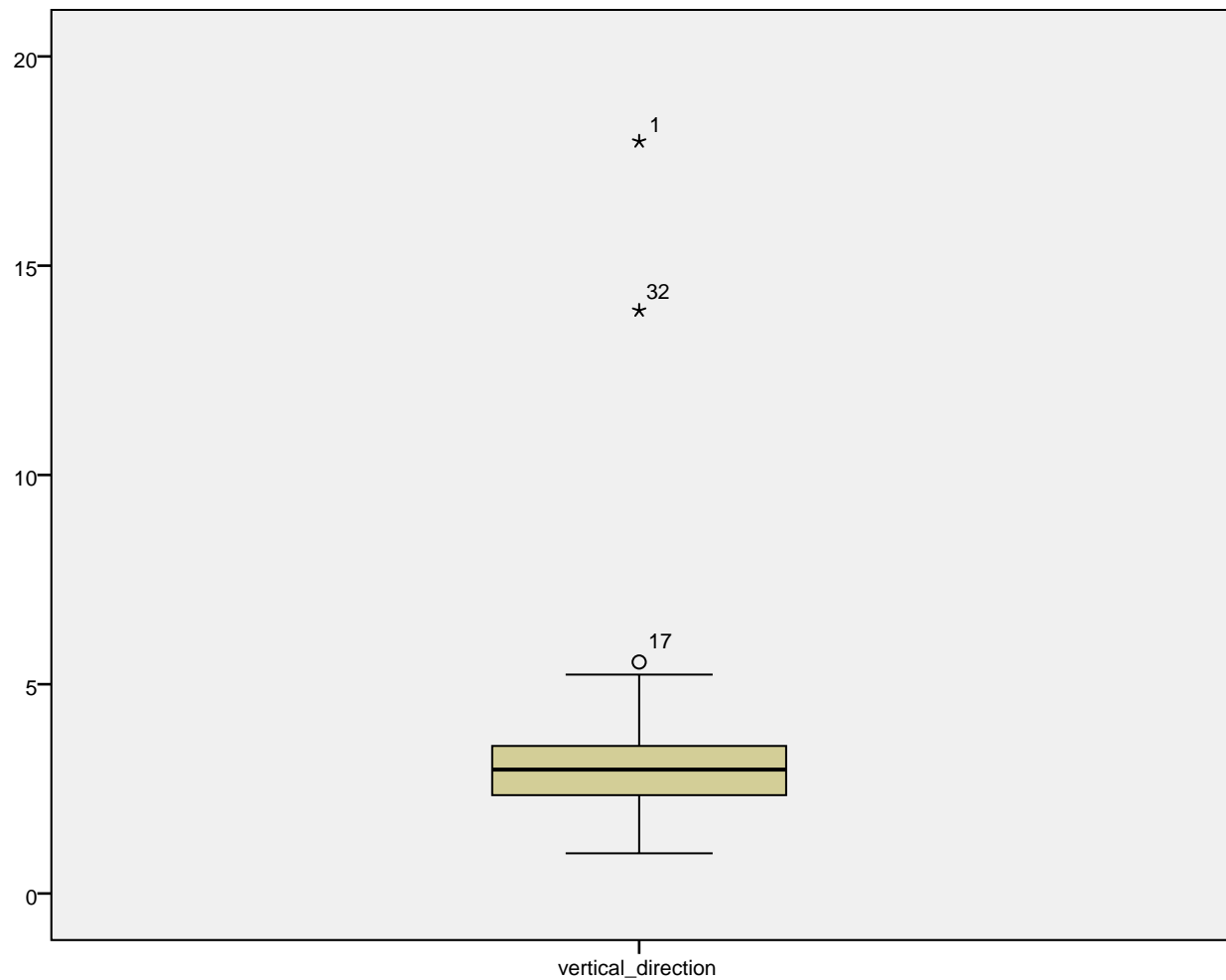
Normal Q-Q Plot of vertical_direction

Detrended Normal Q-Q Plot of vertical_direction

vertical_direction

vertical_slider

vertical_slider Stem-and-Leaf Plot

```
 Frequency     Stem &  Leaf

     4.00          1 .  3444
     9.00          1 .  556688889
     6.00          2 .  002224
     6.00          2 .  567889
     1.00          3 .  1
      .00          3 .
     3.00          4 .  024
     3.00 Extremes    (>=5.3)

 Stem width:      1.00
```
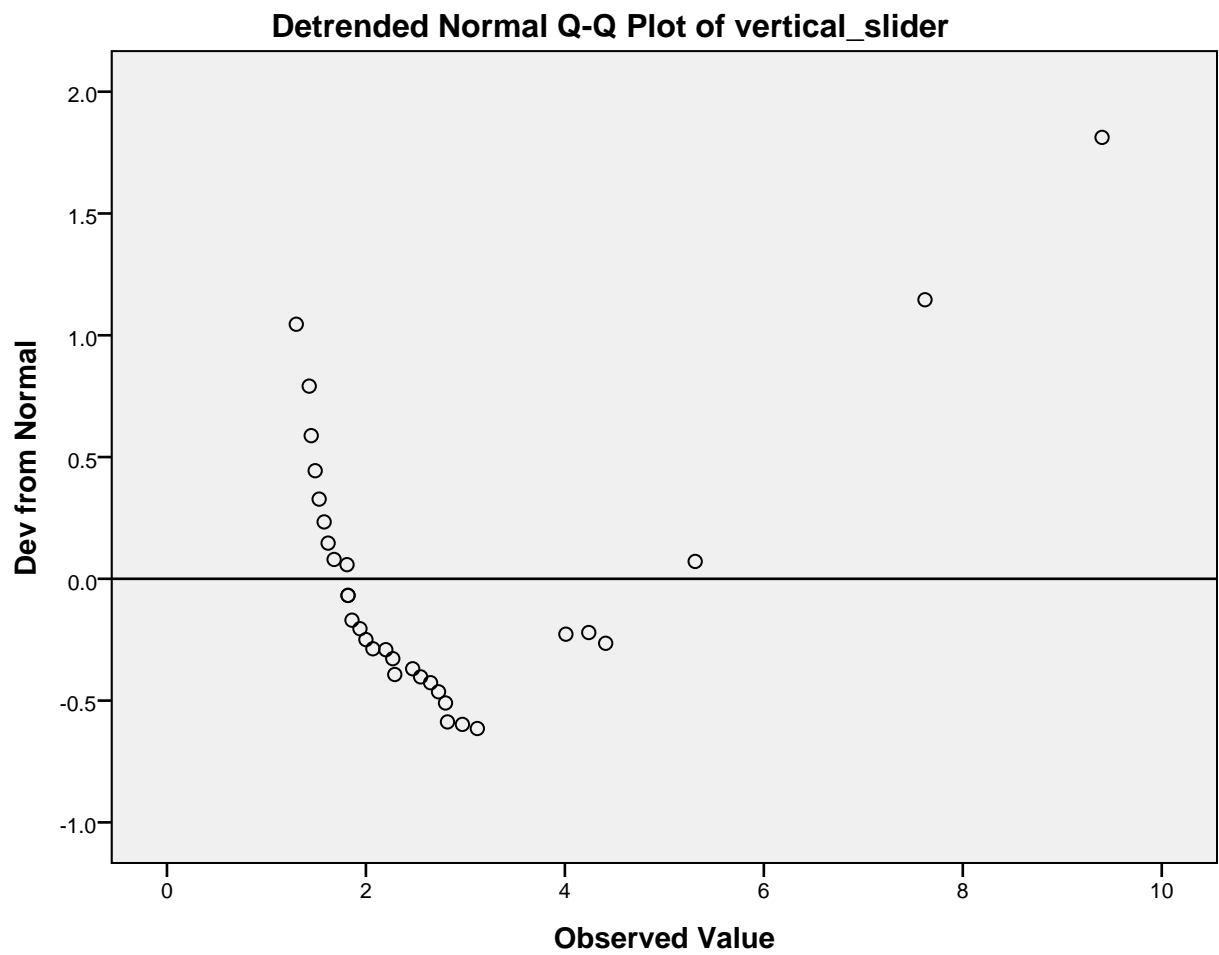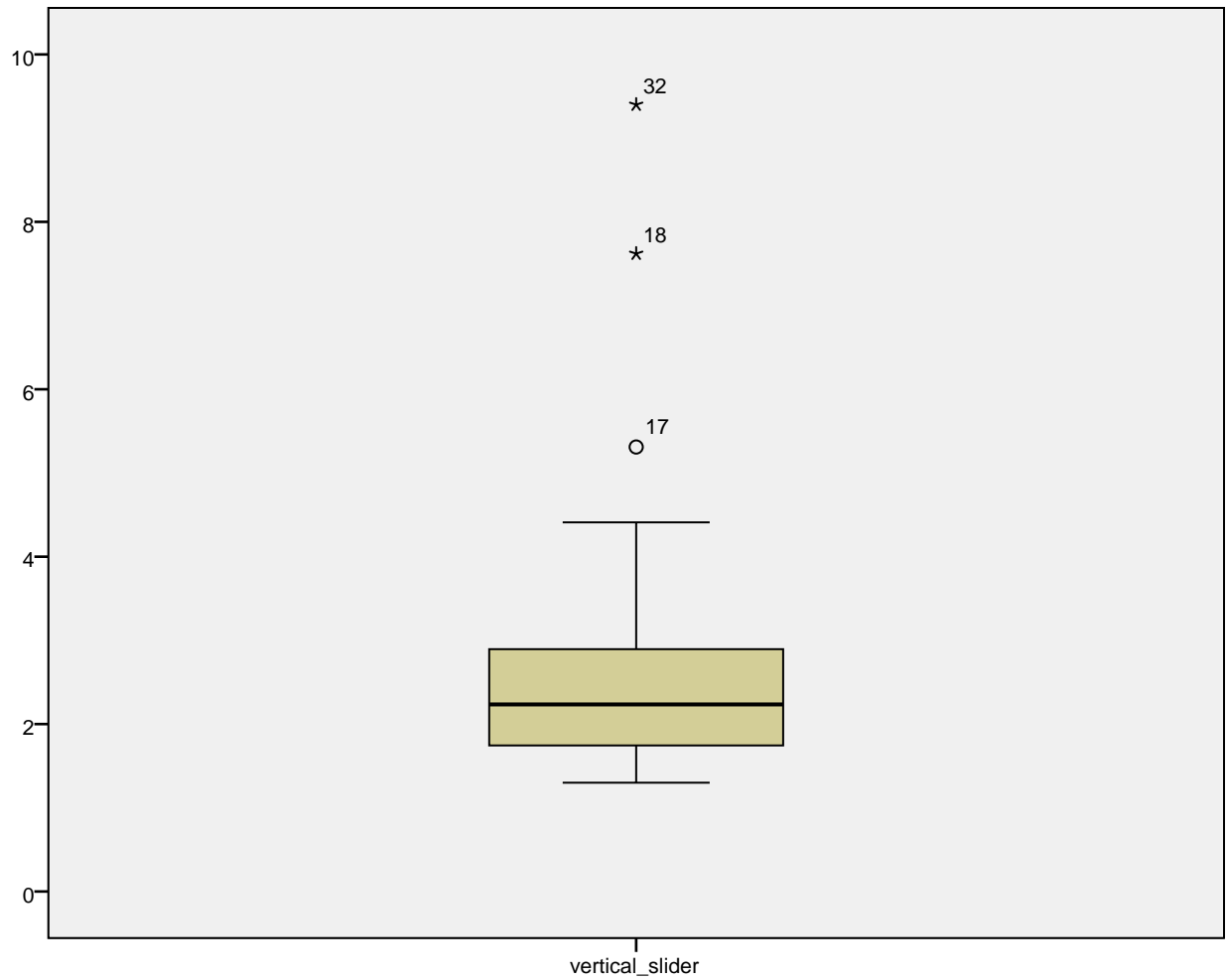
Each leaf: 1 case(s)

Normal Q-Q Plot of vertical_slider

Detrended Normal Q-Q Plot of vertical_slider

vertical_slider
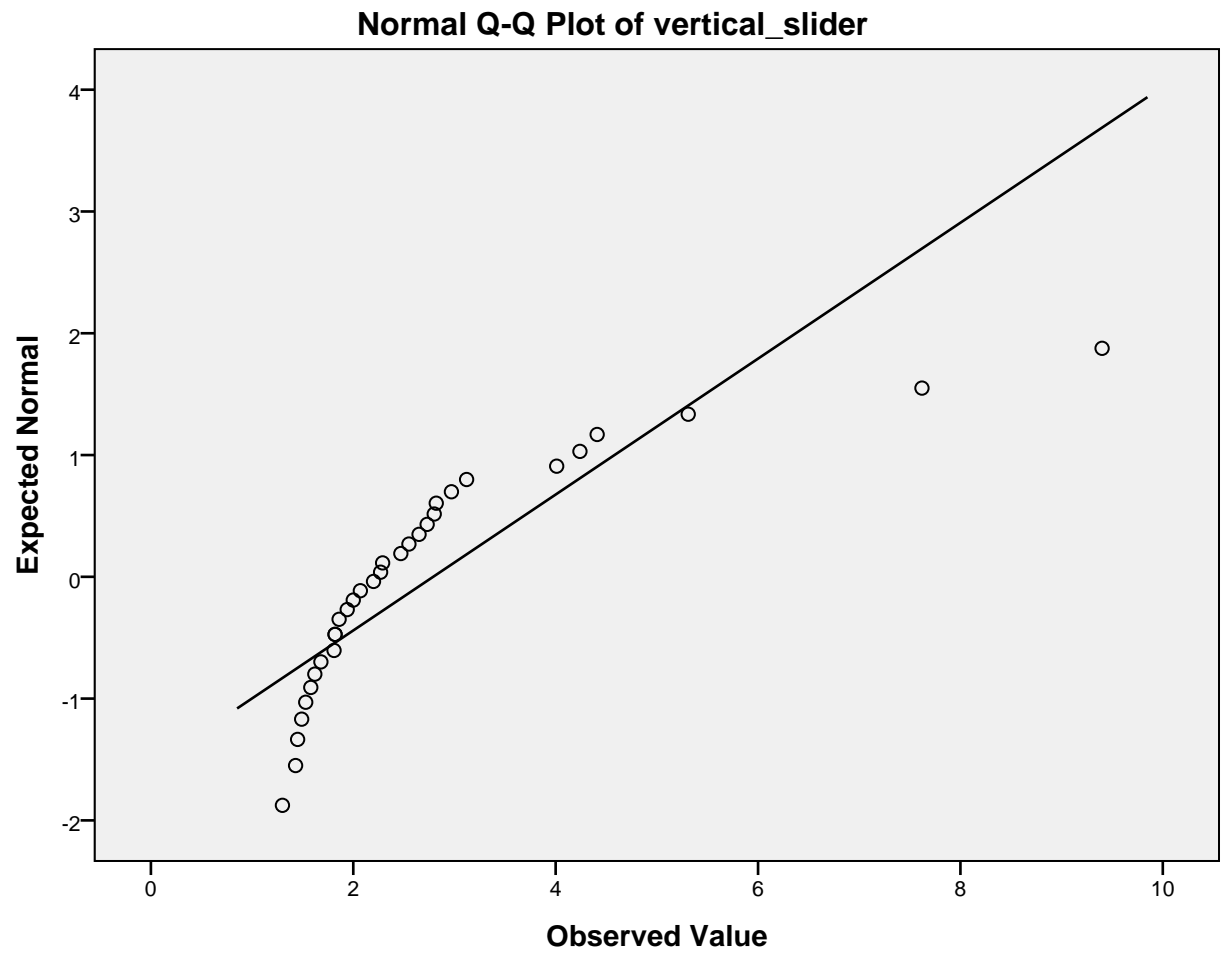
horizontal_bar

```
horizontal_bar Stem-and-Leaf Plot

 Frequency     Stem &  Leaf

     2.00         0 .  66
     7.00         1 .  0335678
    14.00         2 .  00022233455668
     2.00         3 .  58
     2.00         4 .  26
     4.00         5 .  3345
     1.00 Extremes    (>=10.4)

 Stem width:      1.00
 Each leaf:       1 case(s)
```

Normal Q-Q Plot of horizontal_bar

Detrended Normal Q-Q Plot of horizontal_bar

horizontal_bar