

Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved.
 The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayervsDeveloper	2		1
	byPLAYPROFILE1lee662mo re66	2		1
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
ID Random Effects		44	Identity	1
Repeated effects MAINFACTOR			2 Without structure	3
Total		56		10

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ROL_PlayervsDeveloper		
	byPLAYPROFILE1lee662mo re66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: PLAYTESTING DURATION.

Information criteriaa

Restricted log-likelihood -2	492.76499028
Information criterion Akaike (AIC)	500.76499028
Hurvich and Tsai criterion (AICC)	501.28447080
Bozdogan Criterion (CAIC)	514.39186727
Bayesian criterion Schwarz (BIC)	510.39186727

The information criteria are displayed in the smaller the better format.

to. Dependent variable: PLAYTESTING DURATION.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,000	20,514	<.001
GROUP	1	38,992	4,011	.052
ROL_PlayervsDeveloper	1	38,992	.034	.855
byPLAYPROFILE1lee662mo re66	1	38,992	.152	,699
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	38,992	2,423	.128

to. Dependent variable: PLAYTESTING DURATION.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	28,709	7,769
A (2,1)	2,310	3,566
A (2,2)	7,180	2,818
ID	Variance	,000

to. Dependent variable: PLAYTESTING DURATION.

b. This covariance parameter is redundant.

Mixed model analysis

Warnings

The final Hessian matrix is not positively defined even though all convergence criteria have been met. The MIXED procedure continues, despite this warning. The validity of subsequent results cannot be assured.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayervsDeveloper	2		1
	byPLAYPROFILE1less33_2 morethan33	2		1
	byDEVELOPINGPRACTICE _Low_mediumvsHigh	2		1
	ID Random Effects	44 Identity		1
Repeated effects MAINFACTOR		2	Without structure	3
Total		56		10

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ROL_PlayervsDeveloper		
	byPLAYPROFILE1less33_2 morethan33		
	byDEVELOPINGPRACTICE _Low_mediumvsHigh		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: PLAYTESTING DURATION.

Information criteriaa

Restricted log-likelihood -2	493.56479443
Information criterion Akaike (AIC)	501.56479443
Hurvich and Tsai criterion (AICC)	502.08427494
Bozdogan Criterion (CAIC)	515.19167141
Bayesian criterion Schwarz (BIC)	511.19167141

The information criteria are displayed in the smaller the better format.

to. Dependent variable: PLAYTESTING DURATION.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,001	20,514	<.001
GROUP	1	38,994	3,269	.078
ROL_PlayervsDeveloper	1	38,994	.018	.895
byPLAYPROFILE1less33_2 morethan33	1	38,994	.027	.870
byDEVELOPINGPRACTICE _Low_mediumvsHigh	1	38,994	.063	.804

to. Dependent variable: PLAYTESTING DURATION.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	20,477	7,480
A (2,1)	-4,821	3,608
A (2,2)	1,149	3,067
ID	Variance	12,280b
		,000

to. Dependent variable: PLAYTESTING DURATION.

b. This covariance parameter is redundant.

Mixed model analysis

Warnings

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Model dimension

		Number of levels	Covariance structure	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	byPLAYPROFILE1lee662mo re66	2		1
	byPLAYPROFILE1lee662mo re66 * MAIN FACTOR	4		1
	GROUP * MAIN FACTOR	4		1
	ID Random Effects	44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		60		10

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	byPLAYPROFILE1lee662mo re66		
	byPLAYPROFILE1lee662mo re66 * MAIN FACTOR		
	GROUP * MAIN FACTOR		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: AVERAGE GAME TIME.

Information criteriaa

Restricted log-likelihood -2	383.96382708
Information criterion Akaike (AIC)	391.96382708
Hurvich and Tsai criterion (AICC)	392.48330760
Bozdogan Criterion (CAIC)	405.59070407
Bayesian criterion Schwarz (BIC)	401.59070407

The information criteria are displayed in the smaller the better format.

to. Dependent variable: AVERAGE GAME TIME.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	41,035	20,620	<.001
GROUP	1	41,030	.009	.923
byPLAYPROFILE1lee662mo re66	1	41,030	.681	.414
byPLAYPROFILE1lee662mo re66 * MAIN FACTOR	1	41,035	.632	.431
GROUP * MAIN FACTOR	1	41,035	.522	.474

to. Dependent variable: AVERAGE GAME TIME.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	6,231	1,833
A (2,1)	-1,584	.809
A (2,2)	1,131	.707
ID	Variance	,000

to. Dependent variable: AVERAGE GAME TIME.

b. This covariance parameter is redundant.

Mixed model analysis

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Model dimension

		Number of levels	Covariance structure	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	ID Random Effects	44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		53		9

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	ID Random Effects		
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: WON RATE.

Information criteriaa

Restricted log-likelihood -2	817.94246713
Information criterion Akaike (AIC)	825.94246713
Hurvich and Tsai criterion (AICC)	826.45528765
Bozdogan Criterion (CAIC)	839.61782956
Bayesian criterion Schwarz (BIC)	835.61782956

The information criteria are displayed in the smaller the better format.

to. Dependent variable: WON RATE.

Case Processing Summary

	Valid		Cases		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,000	38,542	<.001
GROUP	1	40,033	3,300	.077
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	40,033	24,184	<.001

to. Dependent variable: WON RATE.

Covariance parameters

Covariance Parameter Estimates^a

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	896,500	254,841
A (2,1)	-163,116	145,215
A (2,2)	518,404	170,969
ID	Variance	238,802b ,000

to. Dependent variable: WON RATE.

b. This covariance parameter is redundant.

Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayervsDeveloper	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		57		eleven

Model dimension

	Subject variables	Number of subjects
Fixed effects	MAIN FACTOR	
	GROUP	
	ROL_PlayervsDeveloper	
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	
	byDEVELOPINGPRACTICE _LowvsMediumHigh	
ID Random Effects		
Repeated effects MAINFACTOR	ID	44
Total		

to. Dependent variable: FUN (Q5-Q6).

Information criteriaa

Restricted log-likelihood -2	351.60536908
Information criterion Akaike (AIC)	359.60536908
Hurvich and Tsai criterion (AICC)	360.13168487
Bozdogan Criterion (CAIC)	373.18316570
Bayesian criterion Schwarz (BIC)	369.18316570

The information criteria are displayed in the smaller the better format.

to. Dependent variable: FUN (Q5-Q6).

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,003	7,261	.010
GROUP	1	37,964	2,265	.141
ROL_PlayervsDeveloper	1	37,964	1,056	,311
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	37,967	1,074	.352
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	37,970	,189	.666

to. Dependent variable: FUN (Q5-Q6).

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	2,778	434509,504
A (2,1)	-,418	434509,504
A (2,2)	1,908	434509,504
ID	Variance	1,300
		434509,504

to. Dependent variable: FUN (Q5-Q6).

Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	6		2
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		57		10

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
ID Random Effects			
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: FUN (Q5-Q6).

Information criteriaa

Restricted log-likelihood -2	351.48954485
Information criterion Akaike (AIC)	359.48954485
Hurvich and Tsai criterion (AICC)	360.00902537
Bozdogan Criterion (CAIC)	373.11642184
Bayesian criterion Schwarz (BIC)	369.11642184

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable: FUN (Q5-Q6).

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	41,005	8,199	.007
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt32gt 33lt653gt66	2	41,002	.666	,519
MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt32gt 33lt653gt66	2	40,998	.696	.504

to. Dependent variable: FUN (Q5-Q6).

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	2,498	433511,110
A (2,1)	-.766	433511,110
A (2,2)	1,570	433511,110
ID	Variance	1,644

to. Dependent variable: FUN (Q5-Q6).

Explore

Case Processing Summary

	Valid		Cases		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnov gl			Shapiro-Wilk		
	Statistical	Sig.	,200*,200*	Statistical	gl	Next.
Waste	.070	88	,200*	.986	88	.478
Waste	.056	88	,200*	.991	88	.792
Waste	.058	88		.993	88	.911
Waste	.059	88		.993	88	.903
Waste	.083	88	,182	.988	88	.635
Waste	.051	88	,200*	.988	88	.620
Waste	.058	88	,200*	.991	88	.817
Waste	.055	88	,200*	.991	88	.824
Waste	.046	88	,200*	.989	88	.689
Waste	.052	88	,200*	.995	88	.979
Waste	.059	88	,200*	.988	88	.589
Waste	.061	88	,200	.989	88	.643
Waste	.060	88	* ,200	.990	88	.742
Waste	.051	88	* ,	.991	88	.796
Waste	.066	88	200*	.990	88	.748
Waste	.056	88	,200	.989	88	.685
Waste	.047	88	*	.989	88	,699
Waste	.040	88	,200*	.991	88	.788
Waste	.055	88	,200*,	.992	88	.883
Waste	.055	88	200*,200*,200*	.992	88	.883

*. This is a lower limit of true significance.

to. Lilliefors significance correction

Mixed model analysis**Warnings**

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Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayersDeveloper	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	ID Random Effects	44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		57		eleven

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ROL_PlayersDeveloper		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: IMMERSIBILITY (Q3-Q4).

Information criteriaa

Restricted log-likelihood -2	327.96706682
Information criterion Akaike (AIC)	335.96706682
Hurvich and Tsai criterion (AICC)	336.49338261
Bozdogan Criterion (CAIC)	349.54486344
Bayesian criterion Schwarz (BIC)	345.54486344

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable: IMMERSIBILITY
(Q3-Q4).

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,000	.702	.407
GROUP	1	37,996	.145	.706
ROL_PlayervsDeveloper	1	37,996	1,064	.309
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt33gt 33lt653gt66	2	37,996	,534	,590
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	37,996	.004	.952

to. Dependent variable: IMMERSIBILITY (Q3-Q4).

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	2,202	.911
A (2,1)	.794	.740
A (2,2)	1,725	.806
ID	Variance	,000

to. Dependent variable: IMMERSIBILITY (Q3-Q4).

b. This covariance parameter is redundant.

Mixed model analysis

Warnings

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Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayersDeveloper	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRACTICE _Low_mediumvsHlgh	2		1
	ID Random Effects	44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		57		eleven

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ROL_PlayersDeveloper		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _Low_mediumvsHlgh		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: IMMERSIBILITY (Q3-Q4).

Information criteriaa

Restricted log-likelihood -2	326.21549618
Information criterion Akaike (AIC)	334.21549618
Hurvich and Tsai criterion (AICC)	334.74181197
Bozdogan Criterion (CAIC)	347.79329280
Bayesian criterion Schwarz (BIC)	343.79329280

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable: IMMERSIBILITY
(Q3-Q4).

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,000	.702	.407
GROUP	1	38,004	.079	.781
ROL_PlayervsDeveloper	1	38,004	.448	.507
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt33gt 33lt653gt66	2	38,004	.451	.640
byDEVELOPINGPRACTICE _Low_mediumvsHlgh	1	38,004	1,129	.295

to. Dependent variable: IMMERSIBILITY (Q3-Q4).

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	2,225	.906
A (2,1)	.753	.722
A (2,2)	1,620	.774
ID	Variance	1,772b
		,000

to. Dependent variable: IMMERSIBILITY (Q3-Q4).

b. This covariance parameter is redundant.

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Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	byDEVELOPINGPRACTICE _LowvsMediumHigh	4		1
	MAIN FACTOR			
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		54		8

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	MAIN FACTOR		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: IMMERSIBILITY (Q3-Q4).

Information criteriaa

Restricted log-likelihood -2	331.69114432
Information criterion Akaike (AIC)	339.69114432
Hurvich and Tsai criterion (AICC)	340,19747343
Bozdogan Criterion (CAIC)	353.41441151
Bayesian criterion Schwarz (BIC)	349.41441151

The information criteria are displayed in the smaller the better format.

to. Dependent variable: IMMERSIBILITY (Q3-Q4).

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	42	1,456	,2. 3. 4
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	42,000	.374	.544
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	42	2,053	.159
MAIN FACTOR				

to. Dependent variable: IMMERSIBILITY (Q3-Q4).

Covariance parameters**Covariance Parameter Estimatesa**

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	2,096	.853
A (2,1)	.671	.677
A (2,2)	1,530	.729
ID	Variance	,000

to. Dependent variable: IMMERSIBILITY (Q3-Q4).

b. This covariance parameter is redundant.

Explore

Case Processing Summary

	Valid		Cases		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova gl			Shapiro-Wilk		
	Statistical	Sig.		Statistical	gl	Next.
Waste	.083	88	.182	.982	88	.257
Waste	.065	88	.200*	.981	88	,221
Waste	.071	88	.200*	.985	88	.431
Waste	.070	88	.200*	.986	88	.436
Waste	.074	88	.200*	.983	88	.288
Waste	.065	88	.200*	.987	88	.512
Waste	.089	88	.085	.980	88	.180
Waste	.082	88	,200*	.980	88	,202
Waste	.068	88	,200*	.982	88	.249
Waste	.067	88	,200*	.984	88	.352
Waste	.089	88	.085	.982	88	.279
Waste	.074	88	.200*	.984	88	.375
Waste	.084	88	.172	.985	88	.382
Waste	.082	88	,199	.985	88	.404
Waste	.083	88	.182	.986	88	.441
Waste	.083	88	.185	.985	88	,391
Waste	.099	88	.032	.979	88	.175
Waste	.078	88	,200*	.981	88	.227

*. This is a lower limit of true significance.

to. Lilliefors significance correction

Mixed model analysis**Warnings**

The iteration is finished, but convergence has not been achieved.
 The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	byDEVELOPINGPRACTICE _Low_mediumvsHlgh	2		1
	GROUP	2		1
	ROL_PlayersDeveloper	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	ID Random Effects	44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		57		eleven

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	byDEVELOPINGPRACTICE _Low_mediumvsHlgh		
	GROUP		
	ROL_PlayersDeveloper		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: GRAPHICS&DESIGN (Q1-Q7-Q8-Q9).

Information criteriaa

Restricted log-likelihood -2	314.21596646
Information criterion Akaike (AIC)	322.21596646
Hurvich and Tsai criterion (AICC)	322.74228225
Bozdogan Criterion (CAIC)	335.79376308
Bayesian criterion Schwarz (BIC)	331.79376308

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable:
GRAPHICS&DESIGN (Q1-Q7-
Q8-Q9).

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,000	22,489	<.001
byDEVELOPINGPRACTICE _Low_mediumvsHlgh	1	38,010	.076	.784
GROUP	1	38,010	2,439	.127
ROL_PlayersDeveloper	1	38,010	.070	.792
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	38,010	.448	.642

to. Dependent variable: GRAPHICS&DESIGN (Q1-Q7-Q8-Q9).

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	1,413	.580
A (2,1)	-.533	.383
A (2,2)	.950	.477
ID	Variance	1.144b
		,000

to. Dependent variable: GRAPHICS&DESIGN (Q1-Q7-Q8-Q9).

b. This covariance parameter is redundant.

Explore

Case Processing Summary

	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnov gl			Shapiro-Wilk		
	Statistical	Sig.	,200*,200*	Statistical	gl	Next.
Waste	.055	88	,200*	.987	88	,534
Waste	.057	88	,200*	.986	88	.486
Waste	.056	88	,200*	.982	88	.278
Waste	.064	88	,200*	.983	88	.295
Waste	.050	88	,200*	.981	88	.225
Waste	.059	88		.983	88	.293
Waste	.062	88		.983	88	,311
Waste	.083	88	.194	.984	88	.352
Waste	.050	88	,200*	.984	88	.370
Waste	.059	88	,200*	.989	88	.638
Waste	.056	88	,200	.985	88	.411
Waste	.049	88	*	.984	88	.346
Waste	.048	88	,200*	.987	88	.520
Waste	.047	88	,200	.988	88	.570
Waste	.048	88	*	.988	88	.584
Waste	.053	88	,200*	.989	88	.663
Waste	.045	88	,200*	.988	88	.587
Waste	.063	88	,200*	.991	88	.843
Waste	.046	88	,200*	.990	88	.766
Waste	.048	88	,200*	.982	88	.258
Waste	.059	88	,200*,200*,200*	.983	88	.293

*. This is a lower limit of true significance.

to. Lilliefors significance correction

Explore

Case Processing Summary

	Cases				Total	
	Valid		Lost			
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova			Shapiro-Wilk		
	Statistical	gl	Sig.	Statistical	gl	Next.
Waste	.094	88	.052	.976	88	,100
Waste	.093	88	.059	.971	88	.043
Waste	.099	88	.031	.975	88	.084
Waste	,100	88	.029	.973	88	.066
Waste	.103	88	.021	.973	88	.065
Waste	.089	88	.082	.974	88	.072
Waste	.093	88	.057	.974	88	.069
Waste	,112	88	.009	.977	88	,112
Waste	.093	88	.055	.976	88	.104
Waste	.086	88	.146	.980	88	.206
Waste	.094	88	.053	.975	88	.085
Waste	.097	88	.039	.974	88	.069
Waste	.084	88	.176	.976	88	,101
Waste	.091	88	.070	.976	88	.103
Waste	.089	88	.081	.977	88	,112
Waste	.084	88	.168	.976	88	.106
Waste	.090	88	.073	.976	88	.096
Waste	.074	88	.200*	.982	88	.261
Waste	.091	88	.067	.976	88	,110
Waste	.084	88	.180	.974	88	.076

*. This is a lower limit of true significance.

to. Lilliefors significance correction

Mixed model analysis**Model dimension**

		Number of levels	Covariance structure	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayersDeveloper	2		1
	byPLAYPROFILE1lee662more66	2		1
ID Random Effects		44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		54		9

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ROL_PlayersDeveloper		
	byPLAYPROFILE1lee662mo re66		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: length comment.

Information criteriaa

Restricted log-likelihood -2	1081.3744977
Information criterion	1089.3744977
Akaike (AIC)	
Hurvich and Tsai criterion (AICC)	1089.8873183
Bozdogan Criterion (CAIC)	1103.0498602
Bayesian criterion Schwarz (BIC)	1099.0498602

The information criteria are displayed in the smaller the better format.

to. Dependent variable: length comment.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,000	2,279	.138
GROUP	1	39,985	.167	.685
ROL_PlayersDeveloper	1	39,988	45,844	<.001
byPLAYPROFILE1lee662mo re66	1	39,988	.010	.923

to. Dependent variable: length comment.

Covariance parameters

Covariance Parameter Estimatesa

Parameter		Estimation	Standard error
Repeated Measurements UN (1,1)	51780.371	1011127361.7	
A (2,1)	6807,453	1011127361.6	
A (2,2)	3694,088	1011127361.6	
ID	Variance	7963,234	1011127361.6

to. Dependent variable: length comment.

Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved.
The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayervsDeveloper	2		1
	byPLAYPROFILE1less33_2 morethan33	2		1
	ID Random Effects	44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		54		9

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ROL_PlayervsDeveloper		
	byPLAYPROFILE1less33_2 morethan33		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: length comment.

Information criteriaa

Restricted log-likelihood -2	1078.8146324
Information criterion	1086.8146324
Akaike (AIC)	
Hurvich and Tsai criterion (AICC)	1087.3274529
Bozdogan Criterion (CAIC)	1100.4899948
Bayesian criterion	1096.4899948
Schwarz (BIC)	

The information criteria are displayed in the smaller the better format.

to. Dependent variable: length comment.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,000	2,279	.138
GROUP	1	39,981	.088	.769
ROL_PlayervsDeveloper	1	39,981	50,031	<.001
byPLAYPROFILE1less33_2 morethan33	1	39,981	1,756	,193

to. Dependent variable: length comment.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	48577,488	12726,132
A (2,1)	4076,875	4573,738
A (2,2)	1435,800	2487,707
ID	Variance	9687,018b ,000

to. Dependent variable: length comment.

b. This covariance parameter is redundant.

Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayervsDeveloper	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	ID Random Effects	44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		55		10

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ROL_PlayervsDeveloper		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: length comment.

Information criteriaa

Restricted log-likelihood -2	1069.8728766
Information criterion Akaike (AIC)	1077.8728766
Hurvich and Tsai criterion (AICC)	1078.3923571
Bozdogan Criterion (CAIC)	1091.4997536
Bayesian criterion Schwarz (BIC)	1087.4997536

The information criteria are displayed in the smaller the better format.

to. Dependent variable: length comment.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,000	2,279	.138
GROUP	1	38,992	.081	.778
ROL_PlayervsDeveloper	1	38,992	47,251	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	38,992	.856	.433

to. Dependent variable: length comment.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	52134,401	12837,318
A (2,1)	7621,766	4693,977
A (2,2)	4968.493	2582,367
ID	Variance	,000

to. Dependent variable: length comment.

b. This covariance parameter is redundant.

Mixed model analysis

Warnings

The final Hessian matrix is not positively defined even though all convergence criteria have been met. The MIXED procedure continues, despite this warning. The validity of subsequent results cannot be assured.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ROL_PlayervsDeveloper	2		1
ID Random Effects		44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		fifty		7

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	ROL_PlayersDeveloper		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: length comment.

Information criteriaa

Restricted log-likelihood -2	1099,1159574
Information criterion	1107,1159574
Akaike (AIC)	
Hurvich and Tsai criterion (AICC)	1107.6159574
Bozdogan Criterion (CAIC)	1120.8865624
Bayesian criterion	1116.8865624
Schwarz (BIC)	

The information criteria are displayed in the smaller the better format.

to. Dependent variable: length comment.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,078	2,282	.138
ROL_PlayersDeveloper	1	41,903	48,877	<.001

to. Dependent variable: length comment.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	50236,359	12658.129
A (2,1)	5571,495	4467,494
A (2,2)	2728.139	2427,509
ID	Variance	8386.955b ,000

to. Dependent variable: length comment.

b. This covariance parameter is redundant.

Mixed model analysis**Warnings**

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ROL_PlayersDeveloper	2		1
	ROL_PlayersDeveloper * MAIN FACTOR	4		1
ID Random Effects	44 Identity			1
Repeated effects MAINFACTOR	2 Without structure			3
Total	54			8

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	ROL_PlayersDeveloper		
	ROL_PlayersDeveloper * MAIN FACTOR		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: length comment.

Information criteriaa

Restricted log-likelihood -2	1088.3859615
Information criterion Akaike (AIC)	1096.3859615
Hurvich and Tsai criterion (AICC)	1096.8922906
Bozdogan Criterion (CAIC)	1110,1092287
Bayesian criterion Schwarz (BIC)	1106,1092287

The information criteria are displayed in the the smaller the better format.

to. Dependent variable: length comment.

Fixed effects**Type IIIa Fixed Effects Tests**

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	42,151	2,647	,111
ROL_PlayervsDeveloper	1	42,107	26,368	<.001
ROL_PlayervsDeveloper * MAIN FACTOR	1	42,151	.408	.527

to. Dependent variable: length comment.

Covariance parameters**Covariance Parameter Estimatesa**

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	52886.229	12909,318
A (2,1)	7633,735	4506,620
A (2,2)	4750,415	2424,749
ID	Variance	6366,587b
		,000

to. Dependent variable: length comment.

b. This covariance parameter is redundant.

Explore

Case Processing Summary

	Valid		Cases		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova			Shapiro-Wilk		
	Statistical	gl	Sig.	Statistical	gl	Next.
Waste	.265	88	<.001	.604	88	<.001
Waste	.272	88	<.001	.605	88	<.001
Waste	,300	88	<.001	.585	88	<.001
Waste	.238	88	<.001	.620	88	<.001
Waste	.284	88	<.001	,597	88	<.001
Waste	.283	88	<.001	.601	88	<.001
Waste	.278	88	<.001	,600	88	<.001
Waste	.226	88	<.001	.640	88	<.001
Waste	.281	88	<.001	,597	88	<.001
Waste	.242	88	<.001	.635	88	<.001
Waste	.272	88	<.001	.605	88	<.001
Waste	,229	88	<.001	.603	88	<.001
Waste	.256	88	<.001	.608	88	<.001
Waste	.254	88	<.001	.608	88	<.001
Waste	.281	88	<.001	.602	88	<.001
Waste	.255	88	<.001	,594	88	<.001
Waste	.248	88	<.001	.612	88	<.001
Waste	.248	88	<.001	.609	88	<.001
Waste	.258	88	<.001	.603	88	<.001
Waste	,299	88	<.001	.573	88	<.001

to. Lilliefors significance correction

Mixed model analysis**Warnings**

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayersDeveloper	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	ID Random Effects	44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		57		eleven

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ROL_PlayersDeveloper		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: KIND OF COMMENT.

Information criteriaa

Restricted log-likelihood -2	293.35648354
Information criterion Akaike (AIC)	301.35648354
Hurvich and Tsai criterion (AICC)	301.88279933
Bozdogan Criterion (CAIC)	314.93428016
Bayesian criterion Schwarz (BIC)	310.93428016

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable: KIND OF COMMENT.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,000	1,455	,2. 3. 4
GROUP	1	38,009	2,692	.109
ROL_PlayervsDeveloper	1	38,009	18,069	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	38,009	7,959	.001
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	38,009	3,564	.067

to. Dependent variable: KIND OF COMMENT.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	.803	.395
A (2,1)	-,149	.330
A (2,2)	1,149	.472
ID Variance	,928b	,000

to. Dependent variable: KIND OF COMMENT.

b. This covariance parameter is redundant.

Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved.
 The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayersDeveloper	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRACTICE _Low_mediumvsHlgh	2		1
	ID Random Effects	44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		57		eleven

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ROL_PlayersDeveloper		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _Low_mediumvsHlgh		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: KIND OF COMMENT.

Information criteriaa

Restricted log-likelihood -2	295.69476867
Information criterion Akaike (AIC)	303.69476867
Hurvich and Tsai criterion (AICC)	304.22108446
Bozdogan Criterion (CAIC)	317.27256529
Bayesian criterion Schwarz (BIC)	313.27256529

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable: KIND OF COMMENT.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,000	1,455	,2. 3. 4
GROUP	1	38,008	1,410	.242
ROL_PlayervsDeveloper	1	38,008	12,079	.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	38,008	4,839	.013
byDEVELOPINGPRACTICE _Low_mediumvsHlgh	1	38,008	.373	.545

to. Dependent variable: KIND OF COMMENT.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	.908	.430
A (2,1)	-.094	.352
A (2,2)	1,153	.484
ID	Variance	,976b
		,000

to. Dependent variable: KIND OF COMMENT.

b. This covariance parameter is redundant.

Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved.
 The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ROL_PlayervsDeveloper	2		1
	ROL_PlayervsDeveloper * MAIN FACTOR	4		1
ID Random Effects	44 Identity			1
Repeated effects MAINFACTOR	2 Without structure			3
Total	54			8

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	ROL_PlayersDeveloper		
	ROL_PlayersDeveloper * MAIN FACTOR		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: KIND OF COMMENT.

Information criteriaa

Restricted log-likelihood -2	306.25811516
Information criterion Akaike (AIC)	314.25811516
Hurvich and Tsai criterion (AICC)	314.76444427
Bozdogan Criterion (CAIC)	327.98138235
Bayesian criterion Schwarz (BIC)	323.98138235

The information criteria are displayed in the smaller the better format.

to. Dependent variable: KIND OF COMMENT.

Fixed effects**Type IIIa Fixed Effects Tests**

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	42	,190	.665
ROL_PlayersDeveloper	1	42	9,482	.004
ROL_PlayersDeveloper * MAIN FACTOR	1	42	2,053	.159

to. Dependent variable: KIND OF COMMENT.

Covariance parameters

Covariance Parameter Estimates^a

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	1,115	.492
A (2,1)	.040	.395
A (2,2)	1,161	.502
ID	Variance	1,138b
		,000

to. Dependent variable: KIND OF COMMENT.

b. This covariance parameter is redundant.

Explore

Case Processing Summary

	Cases		Total			
	Valid N	Percentage	Lost N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova gl			Shapiro-Wilk		
	Statistical	Sig.		Statistical	gl	Next.
Waste	.148	88	<.001	.961	88	.010
Waste	.064	88	.200*	.989	88	.667
Waste	.069	88	.200	.989	88	.653
Waste	.067	88	*	.990	88	.714
Waste	.047	88	.200*	.985	88	.401
Waste	.061	88	.200*.200*	.990	88	.733
Waste	.135	88	<.001	.968	88	.028
Waste	.143	88	<.001	.967	88	.023
Waste	.140	88	<.001	.979	88	.168
Waste	.095	88	.047	.984	88	.337
Waste	.106	88	.016	.970	88	.041
Waste	.124	88	.002	.964	88	.015
Waste	.118	88	.004	.966	88	.021
Waste	.114	88	.007	.967	88	.024
Waste	.105	88	.018	.970	88	.037
Waste	.120	88	.003	.963	88	.013
Waste	.146	88	<.001	.965	88	.018
Waste	.135	88	<.001	.966	88	.022
Waste	.132	88	<.001	.974	88	.078
Waste	.125	88	.002	.976	88	.108

*. This is a lower limit of true significance.

to. Lilliefors significance correction

>Warning number 602

>The argument to the natural logarithm function is less than or equal to zero.

>The result has been set to the system-missing value.

>Command line: 5809 Current case: 3 Current splitfile group: 1

>Warning number 602

>The argument to the natural logarithm function is less than or equal to zero.

>The result has been set to the system-missing value.

>Command line: 5809 Current case: 8 Current splitfile group: 1

>Warning number 602

>The argument to the natural logarithm function is less than or equal to zero.

>The result has been set to the system-missing value.

>Command line: 5809 Current case: 61 Current splitfile group: 1

>Warning number 602

>The argument to the natural logarithm function is less than or equal to zero.

>The result has been set to the system-missing value.

>Command line: 5809 Current case: 71 Current splitfile group: 1

Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved.
 The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Covariance structure	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	byDEVELOPINGPRACTICE* _LowvsMediumHigh	4		1
	MAIN FACTOR			
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		54		8

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	byDEVELOPINGPRACTICE* _LowvsMediumHigh		
	MAIN FACTOR		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: LN_AVERAGEPLAYTIME.

Information criteriaa

Restricted log-likelihood -2	180.05157458
Information criterion Akaike (AIC)	188.05157458
Hurvich and Tsai criterion (AICC)	188.58490791
Bozdogan Criterion (CAIC)	201.57968112
Bayesian criterion Schwarz (BIC)	197.57968112

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
LN_AVERAGEPLAYTIME.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	37,708	43,190	<.001
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	38,343	.018	.894
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	37,708	6,665	.014
MAIN FACTOR				

to. Dependent variable: LN_AVERAGEPLAYTIME.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	.303	.125
A (2,1)	-.106	.089
A (2,2)	.212	,100
ID	Variance	.242b
		,000

to. Dependent variable: LN_AVERAGEPLAYTIME.

b. This covariance parameter is redundant.

Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved.
 The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Covariance structure	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	byPLAYPROFILE1lee662mo re66	2		1
	byPLAYPROFILE1lee662mo re66 * MAIN FACTOR	4		1
ID Random Effects			44 Identity	1
Repeated effects MAINFACTOR			2 Without structure	3
Total			54	8

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	byPLAYPROFILE1lee662mo re66		
	byPLAYPROFILE1lee662mo re66 * MAIN FACTOR		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: LN_AVERAGEPLAYTIME.

Information criteriaa

Restricted log-likelihood -2	180.80683120
Information criterion Akaike (AIC)	188.80683120
Hurvich and Tsai criterion (AICC)	189.34016454
Bozdogan Criterion (CAIC)	202.33493774
Bayesian criterion Schwarz (BIC)	198.33493774

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
LN_AVERAGEPLAYTIME.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	37,352	35,257	<.001
byPLAYPROFILE1lee662mo re66	1	38,056	1,152	.290
byPLAYPROFILE1lee662mo re66 * MAIN FACTOR	1	37,352	5,176	.029

to. Dependent variable: LN_AVERAGEPLAYTIME.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	.268	.115
A (2,1)	-,130	.088
A (2,2)	.245	.106
ID	Variance	,237b

to. Dependent variable: LN_AVERAGEPLAYTIME.

b. This covariance parameter is redundant.

Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved.
 The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	6		2
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		57		10

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
ID Random Effects			
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: LN_AVERAGEPLAYTIME.

Information criteriaa

Restricted log-likelihood -2	180.14711970
Information criterion Akaike (AIC)	188.14711970
Hurvich and Tsai criterion (AICC)	188.69506491
Bozdogan Criterion (CAIC)	201.57395501
Bayesian criterion Schwarz (BIC)	197.57395501

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable:
LN_AVERAGEPLAYTIME.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	35,191	24,280	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt33gt 33lt653gt66	2	36,278	1,233	.303
MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt33gt 33lt653gt66	2	35,592	2,520	.095

to. Dependent variable: LN_AVERAGEPLAYTIME.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	.261	.115
A (2,1)	-.132	.090
A (2,2)	.259	,111
ID Variance	.238b	,000

to. Dependent variable: LN_AVERAGEPLAYTIME.

b. This covariance parameter is redundant.

Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved.
 The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	byDEVELOPINGPRACTICE _Low_mediumvsHlgh	2		1
	byDEVELOPINGPRACTICE _Low_mediumvsHlgh	4		1
	MAIN FACTOR			
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	MAIN FACTOR *	6		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66			
ID Random Effects		44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		63		12

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	byDEVELOPINGPRACTICE _Low_mediumvsHlgh		
	byDEVELOPINGPRACTICE _Low_mediumvsHlgh		
	MAIN FACTOR		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	MAIN FACTOR *		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
ID Random Effects			
Repeated effects MAINFACTOR	ID	44	
Total			

to. Dependent variable: LN_AVERAGEPLAYTIME.

Information criteriaa

Restricted log-likelihood -2	179.66850912
Information criterion Akaike (AIC)	187.66850912
Hurvich and Tsai criterion (AICC)	188.23188941
Bozdogan Criterion (CAIC)	200.99144249
Bayesian criterion Schwarz (BIC)	196.99144249

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
LN_AVERAGEPLAYTIME.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	33,425	17,419	<.001
byDEVELOPINGPRACTICE _Low_mediumvsHlgh	1	34,417	.003	.960
byDEVELOPINGPRACTICE _Low_mediumvsHlgh MAIN FACTOR	1	33,643	1,147	.292
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	35,188	1,173	,321
MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	34,447	2,277	,118

to. Dependent variable: LN_AVERAGEPLAYTIME.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	.267	,120
A (2,1)	-,123	.094
A (2,2)	.262	.114
ID	Variance	.242b
		,000

to. Dependent variable: LN_AVERAGEPLAYTIME.

b. This covariance parameter is redundant.

Explore**Normality tests**

	Kolmogorov-Smirnova			Shapiro-Wilk		
	Statistical	gl	Sig.	Statistical	gl	Next.
Waste	,101	84	.033	.973	84	.075
Waste	.078	84	.200*	.976	84	.114
Waste	.082	84	.200	.978	84	.172
Waste	.083	84	* .200	.975	84	.105
Waste	.082	84	*	.975	84	.098
Waste	.077	84	.200*	.975	84	.105
Waste	.080	84	.200*.200*	.977	84	,139
Waste	.097	84	.051	.979	84	,196
Waste	.080	84	.200*	.976	84	.126
Waste	.076	84	.200*	.968	84	.032
Waste	.083	84	.200*	.974	84	.086
Waste	.081	84	.200*	.976	84	,112
Waste	.078	84	.200*	.978	84	.157
Waste	.091	84	.079	.964	84	.019
Waste	.083	84	.200*	.972	84	.062
Waste	,101	84	.033	.973	84	.075
Waste	.080	84	.200*	.976	84	.125
Waste	,116	84	.007	.972	84	.060
Waste	.090	84	.091	.964	84	.019
Waste	.105	84	.023	.969	84	.042

*. This is a lower limit of true significance.

to. Lilliefors significance correction

Mixed model analysis**Warnings**

The iteration is finished, but convergence has not been achieved.
 The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	byPLAYPROFILE1lee662mo re66	2		1
	byPLAYPROFILE1lee662mo re66 * MAIN FACTOR	4		1
ID Random Effects			44 Identity	1
Repeated effects MAINFACTOR			2 Without structure	3
Total			54	8

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	byPLAYPROFILE1lee662mo re66		
	byPLAYPROFILE1lee662mo re66 * MAIN FACTOR		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	551.69951209
Information criterion	559.69951209
Akaike (AIC)	
Hurvich and Tsai criterion (AICC)	560.20584121
Bozdogan Criterion (CAIC)	573.42277929
Bayesian criterion	569.42277929
Schwarz (BIC)	

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	42	1983	.166
byPLAYPROFILE1lee662mo re66	1	42	.479	.493
byPLAYPROFILE1lee662mo re66 * MAIN FACTOR	1	42	1,911	.174

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	37,857	14,378
A (2,1)	13,829	10,689
A (2,2)	18,206	10,090
ID	Variance	28,032b

to. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved.
The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		fifty		7

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR byDEVELOPINGPRACTICE _LowvsMediumHigh		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	556.41946194
Information criterion Akaike (AIC)	564.41946194
Hurvich and Tsai criterion (AICC)	564.91946194
Bozdogan Criterion (CAIC)	578.19006696
Bayesian criterion Schwarz (BIC)	574.19006696

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects**Type IIIa Fixed Effects Tests**

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,000	2,123	.152
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	42,017	.005	.942

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter		Estimation	Standard error
Repeated Measurements UN (1,1)	38,978	14,581	
A (2,1)	14,015	10,769	
A (2,2)	18,058	10,085	
ID	Variance	28,174b	,000

to. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved.
The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	byDEVELOPINGPRACTICE _LowvsMediumHigh	4		1
	MAIN FACTOR			
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		54		8

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	MAIN FACTOR		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	553.24409109
Information criterion Akaike (AIC)	561.24409109
Hurvich and Tsai criterion (AICC)	561.75042020
Bozdogan Criterion (CAIC)	574.96735828
Bayesian criterion Schwarz (BIC)	570.96735828

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	42	2,354	,132
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	42,000	,006	,939
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	42	,280	,600
MAIN FACTOR				

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	39,083	14,736
A (2,1)	13,694	10,800
A (2,2)	17,806	10,093
ID	Variance	,000

to. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved.
 The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Covariance structure	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	byDEVELOPINGPRACTICE _Low_mediumvsHigh	2		1
	byDEVELOPINGPRACTICE _Low_mediumvsHigh MAIN FACTOR	4		1
ID Random Effects			44 Identity	1
Repeated effects MAINFACTOR			2 Without structure	3
Total			54	8

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	byDEVELOPINGPRACTICE _Low_mediumvsHigh		
	byDEVELOPINGPRACTICE _Low_mediumvsHigh MAIN FACTOR		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	548.10988475
Information criterion Akaike (AIC)	556.10988475
Hurvich and Tsai criterion (AICC)	556.61621386
Bozdogan Criterion (CAIC)	569.83315194
Bayesian criterion Schwarz (BIC)	565.83315194

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	42,000	3,335	.075
byDEVELOPINGPRACTICE _Low_mediumvsHlgh	1	42,000	3,386	.073
byDEVELOPINGPRACTICE _Low_mediumvsHlgh	1	42,000	1,349	.252
MAIN FACTOR				

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	35,337	13,496
A (2,1)	12,123	10,031
A (2,2)	17,683	9,644
ID	Variance	,000

to. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Explore

Case Processing Summary

	Valid		Cases		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%

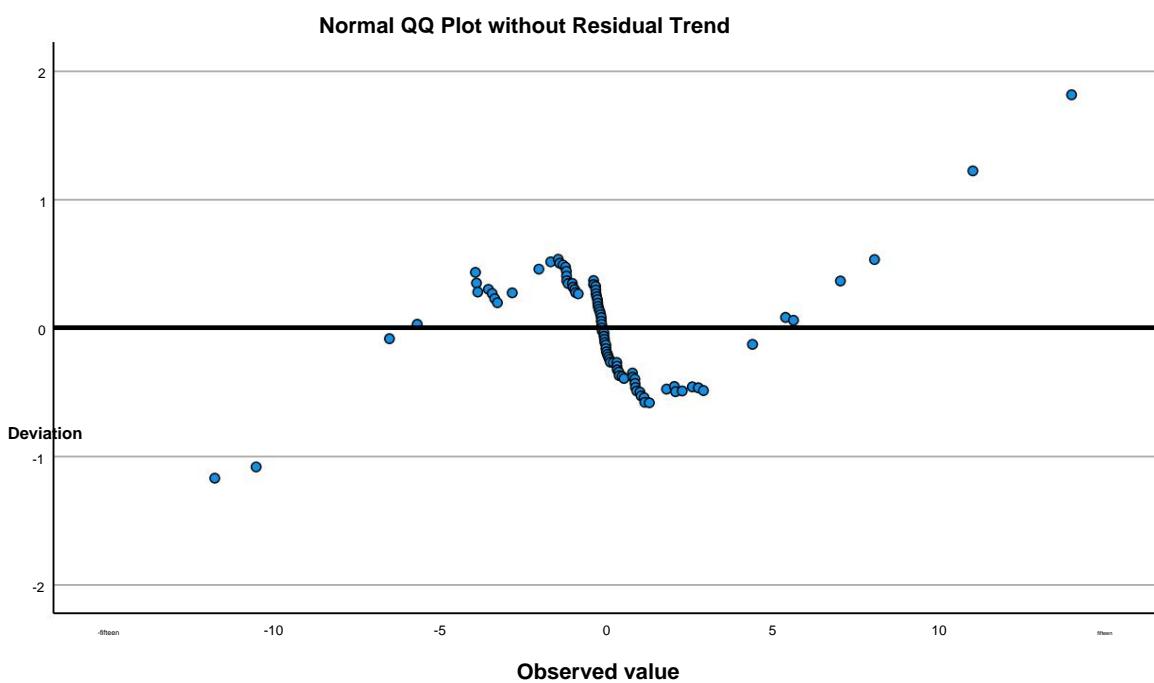
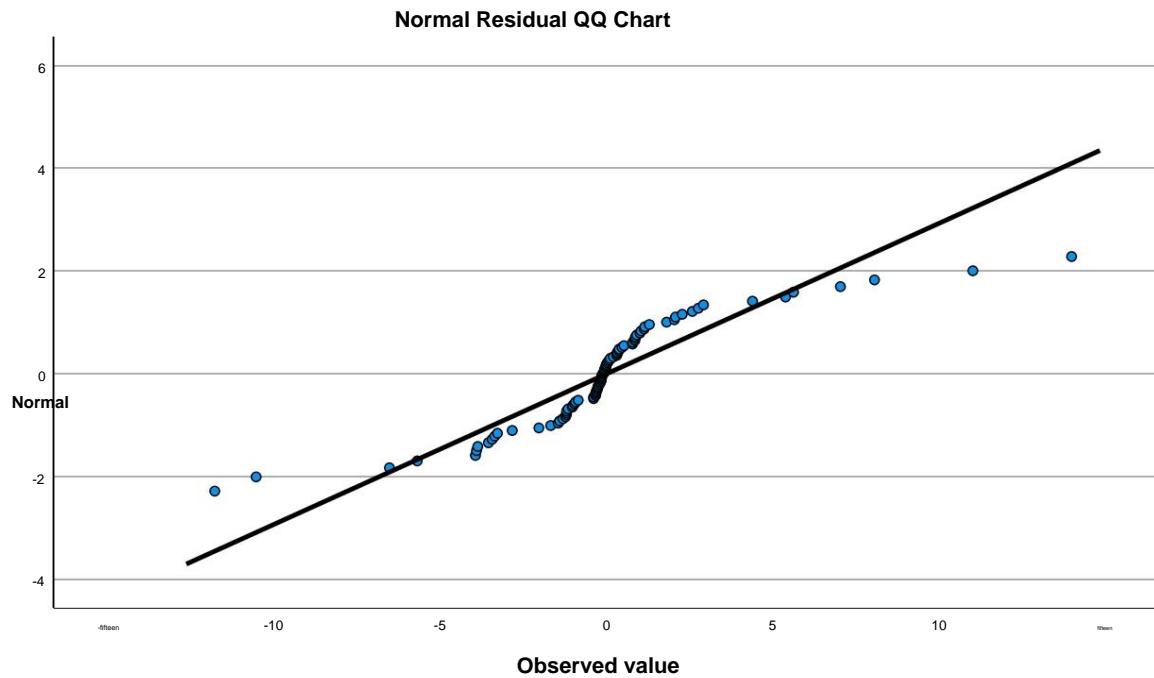
Normality tests

	Kolmogorov-Smirnova			Shapiro-Wilk		
	Statistical	gl	Sig.	Statistical	gl	Next.
Waste	.088	88	.088	.925	88	<.001
Waste	.131	88	<.001	.897	88	<.001
Waste	.137	88	<.001	.890	88	<.001
Waste	,198	88	<.001	.835	88	<.001
Waste	.086	88	.147	.927	88	<.001
Waste	.079	88	.200*	.939	88	<.001
Waste	.165	88	<.001	.877	88	<.001
Waste	.156	88	<.001	.884	88	<.001
Waste	.082	88	,200*	.926	88	<.001
Waste	.090	88	.078	.913	88	<.001
Waste	.081	88	.200*	.930	88	<.001
Waste	.077	88	.200*	.933	88	<.001
Waste	.079	88	.200*	.932	88	<.001
Waste	.096	88	.045	.914	88	<.001
Waste	.087	88	.095	.926	88	<.001
Waste	.074	88	,200*	.923	88	<.001
Waste	.090	88	.073	.920	88	<.001
Waste	.108	88	.013	.905	88	<.001
Waste	.164	88	<.001	.872	88	<.001

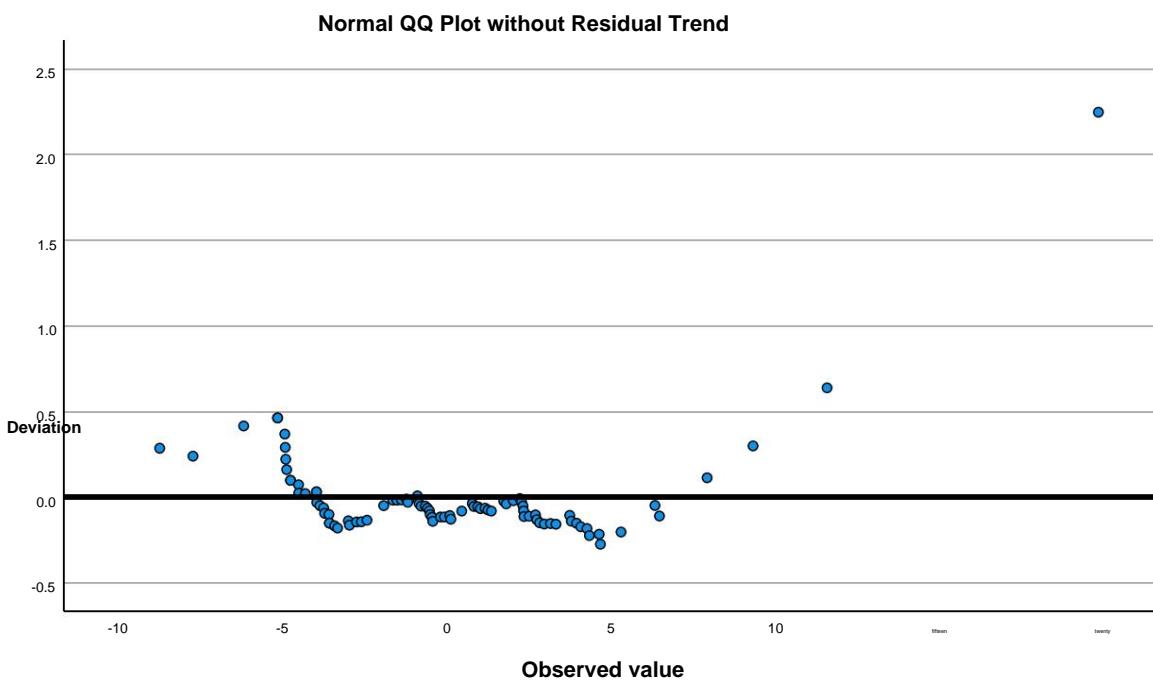
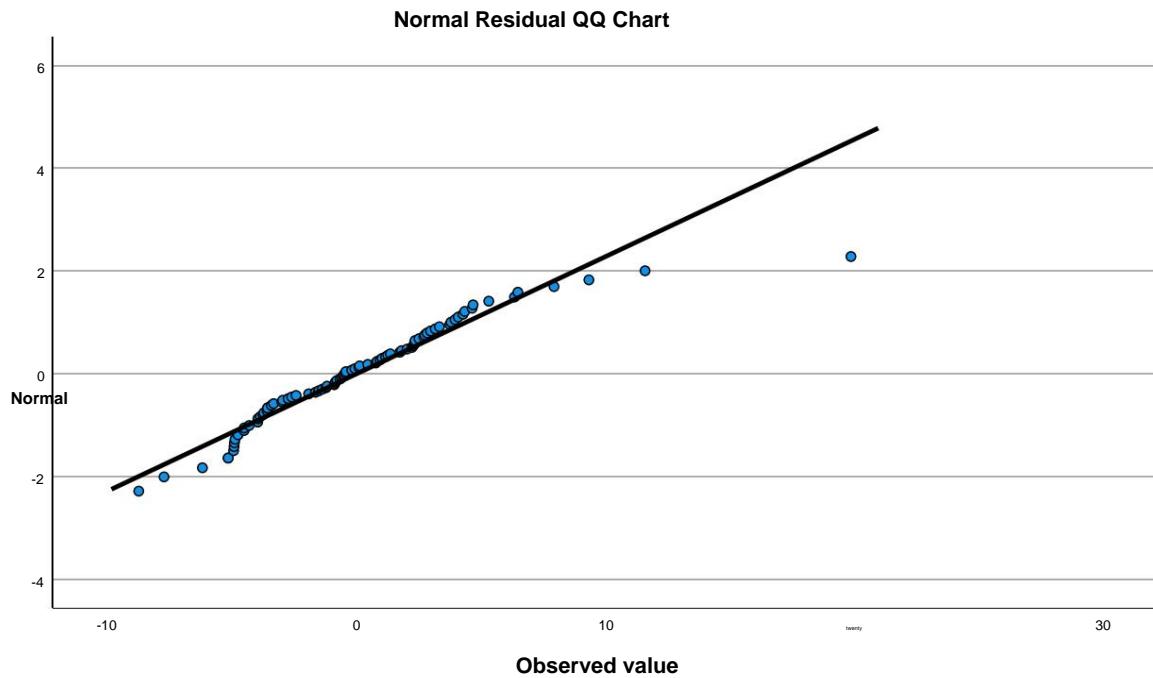
*. This is a lower limit of true significance.

to. Lilliefors significance correction

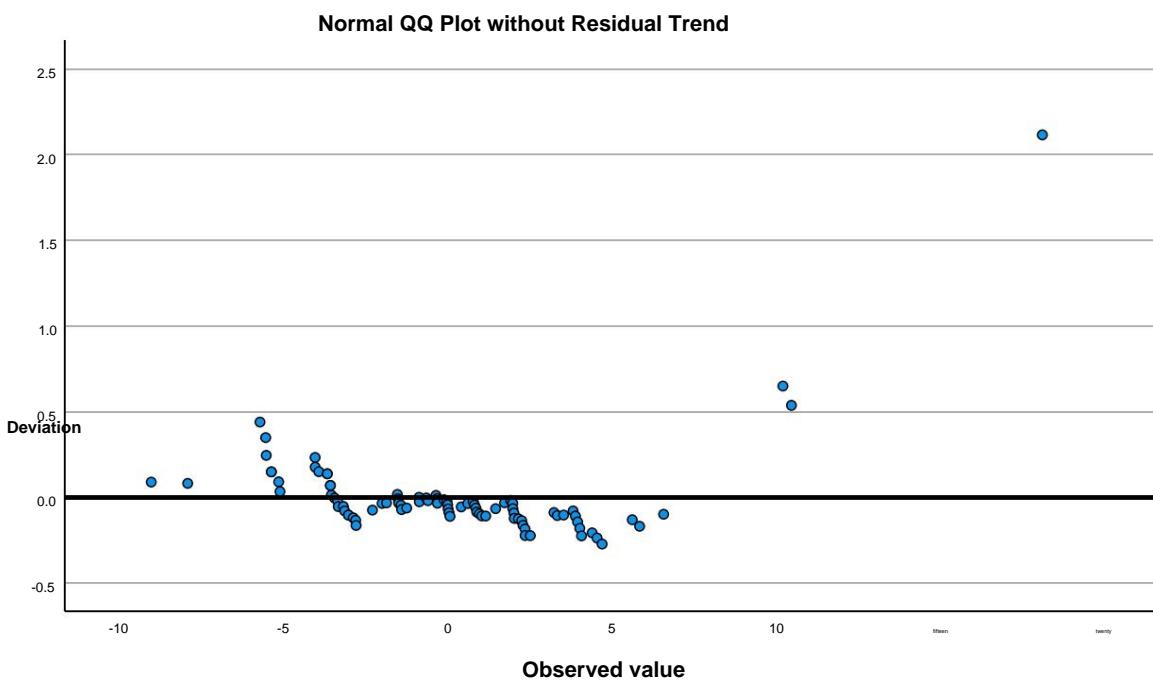
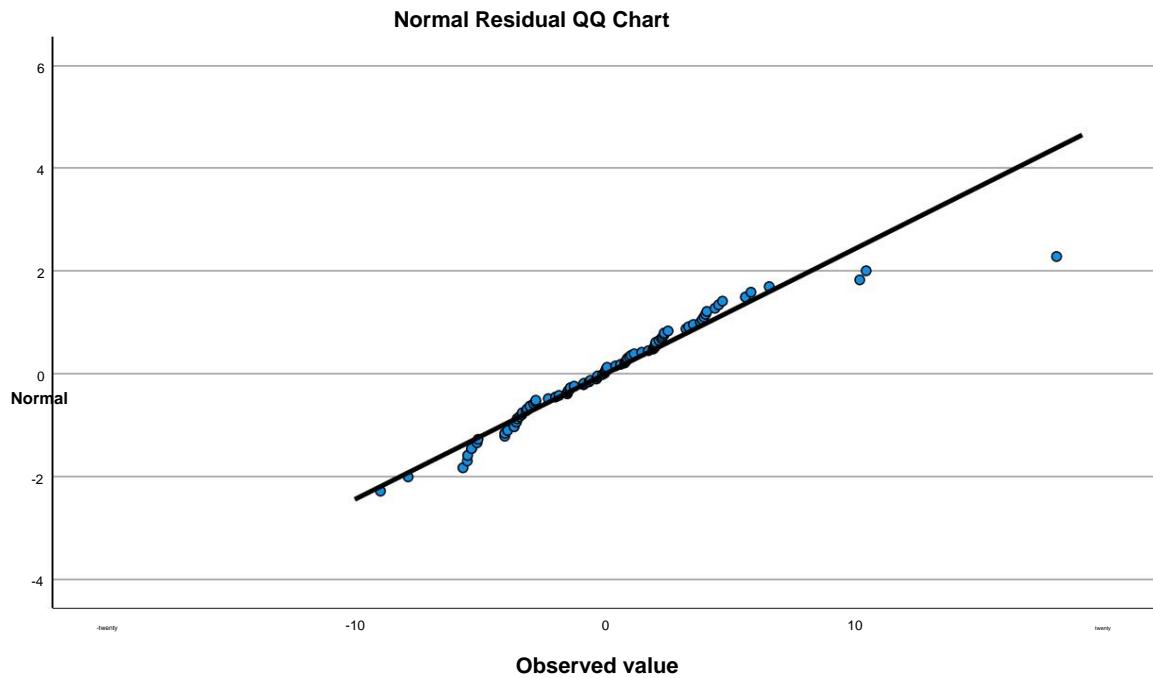
Waste



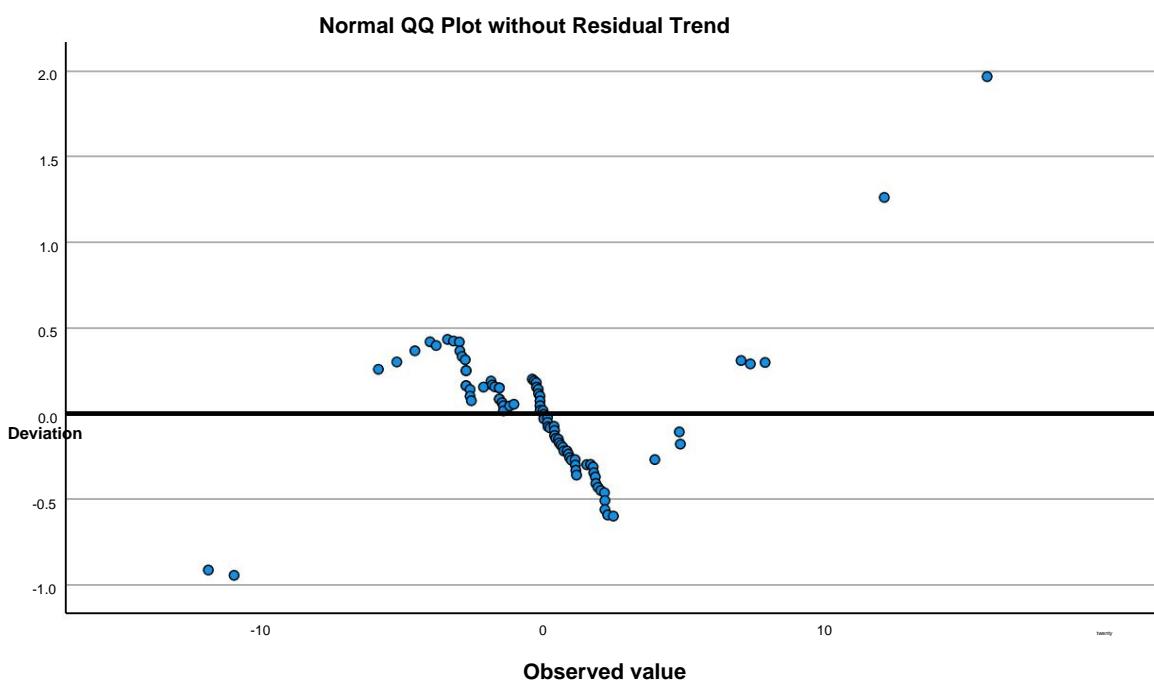
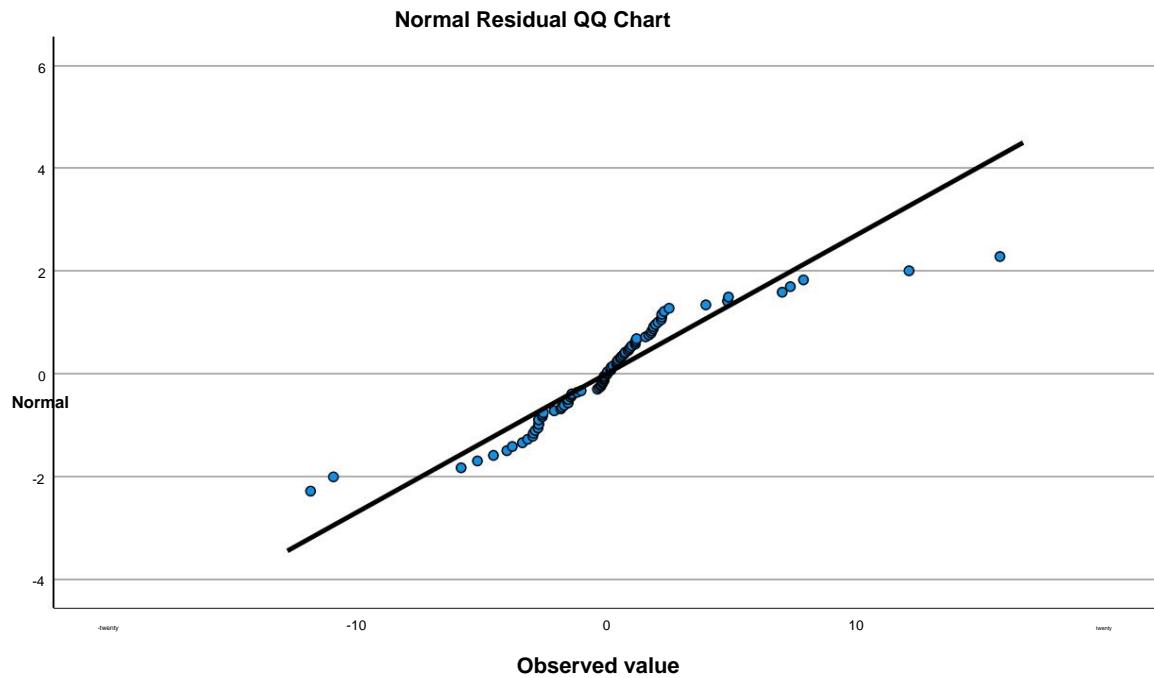
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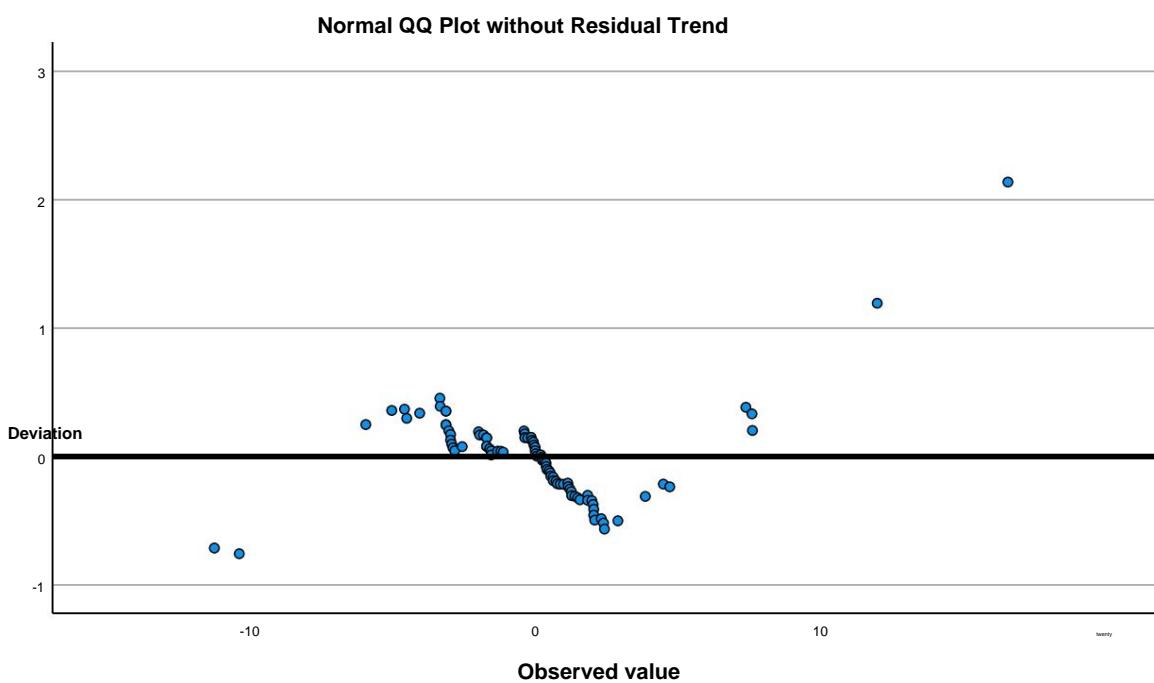
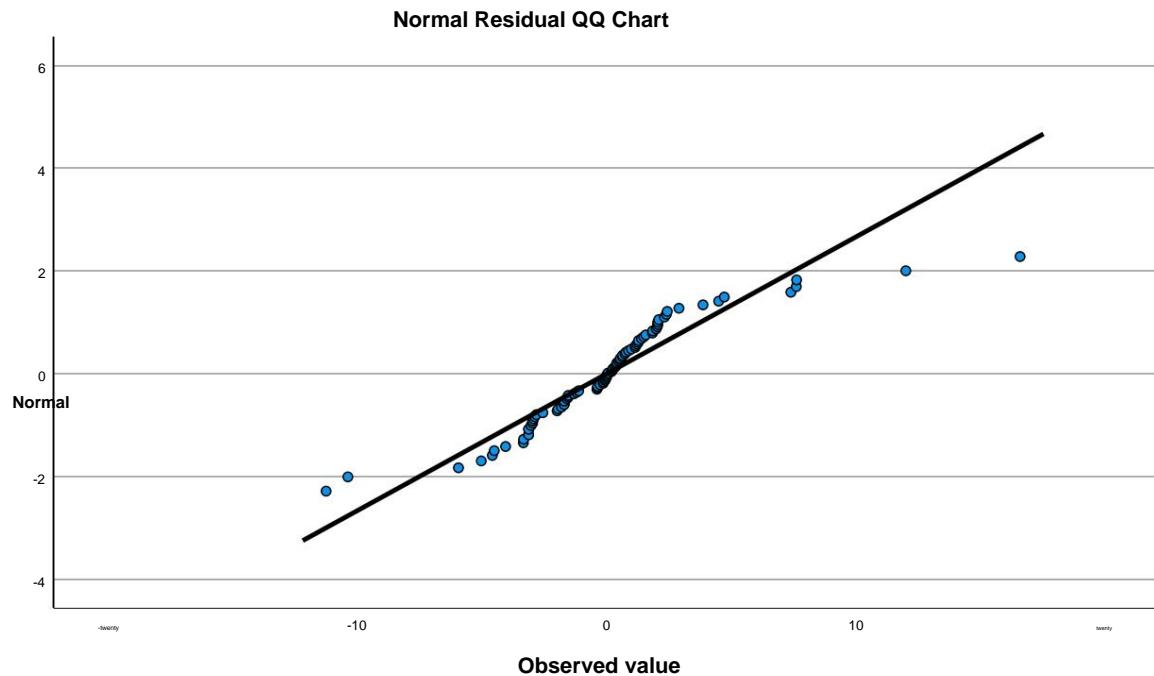
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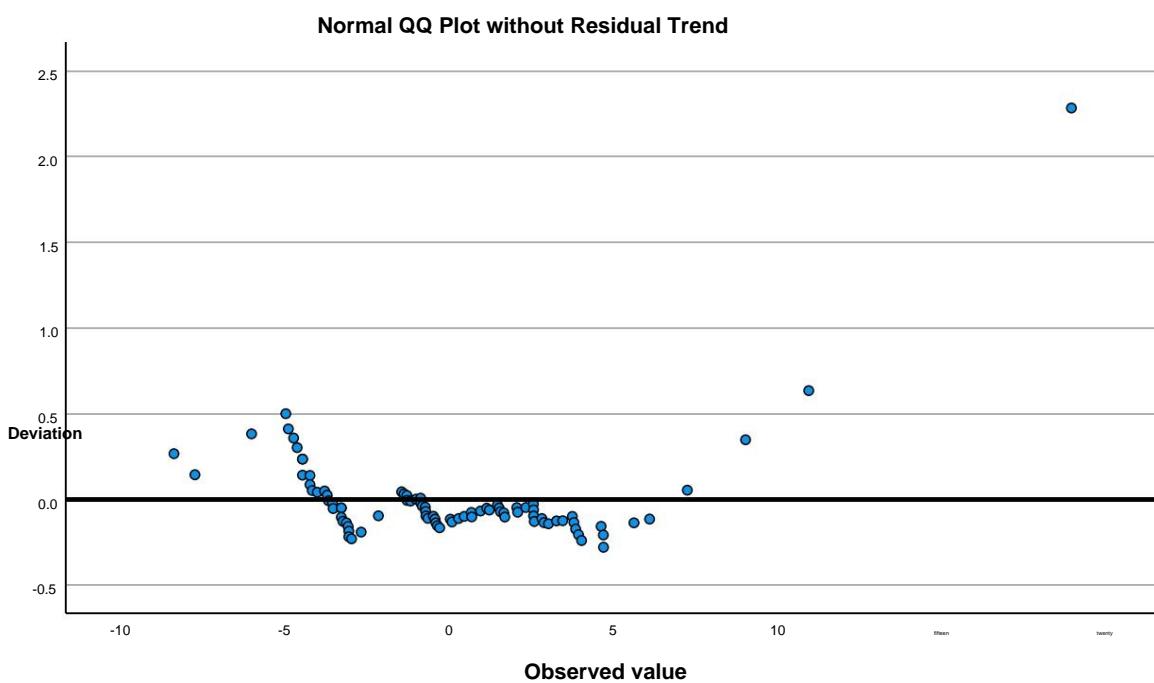
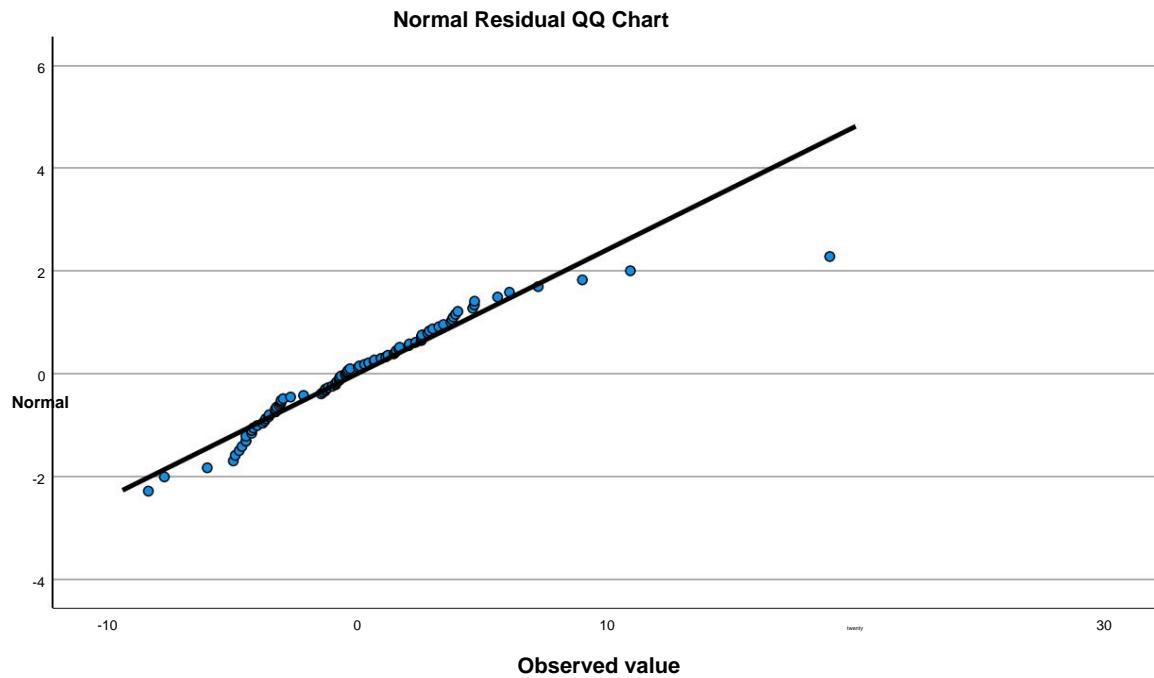
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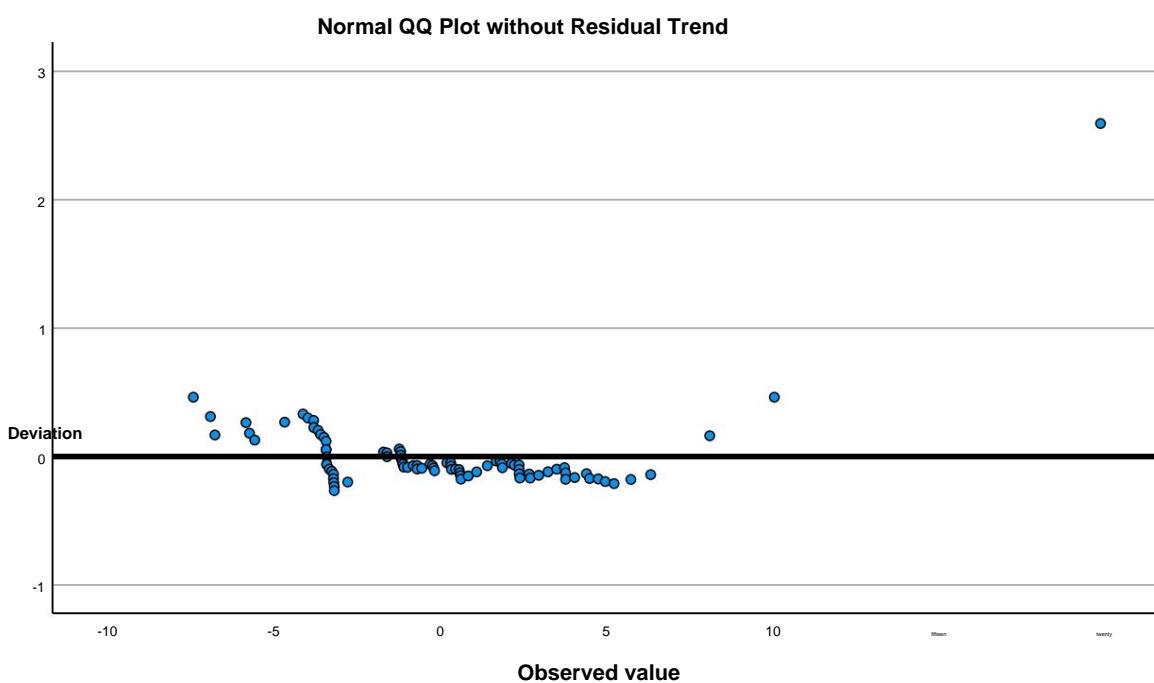
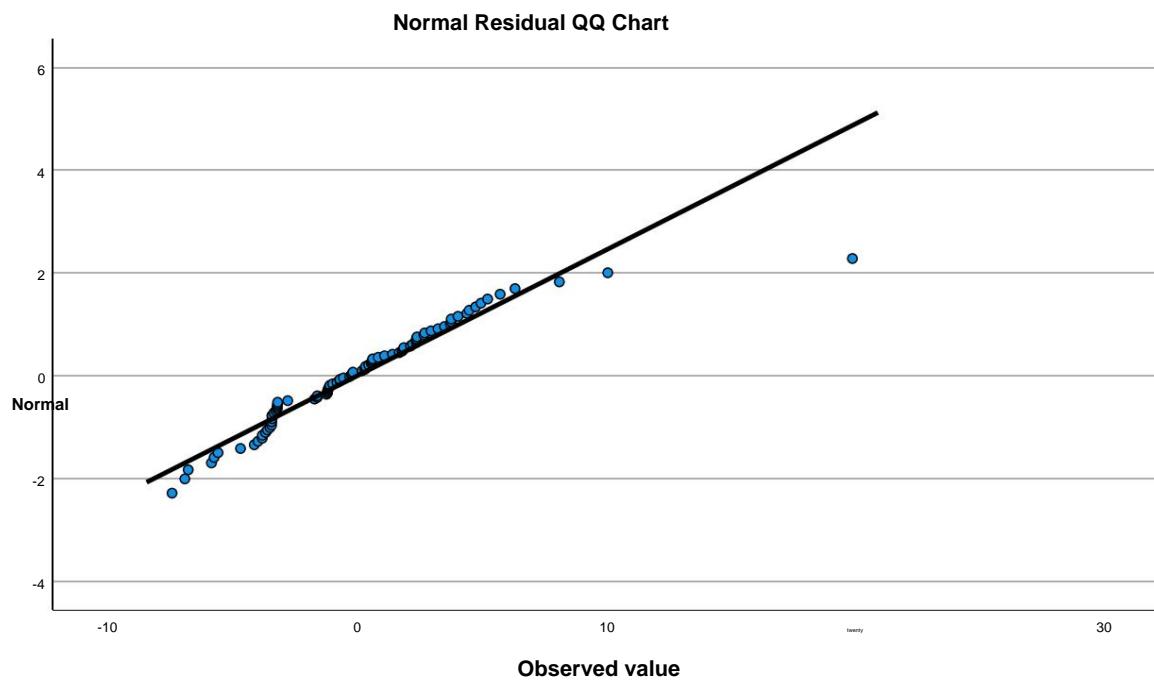
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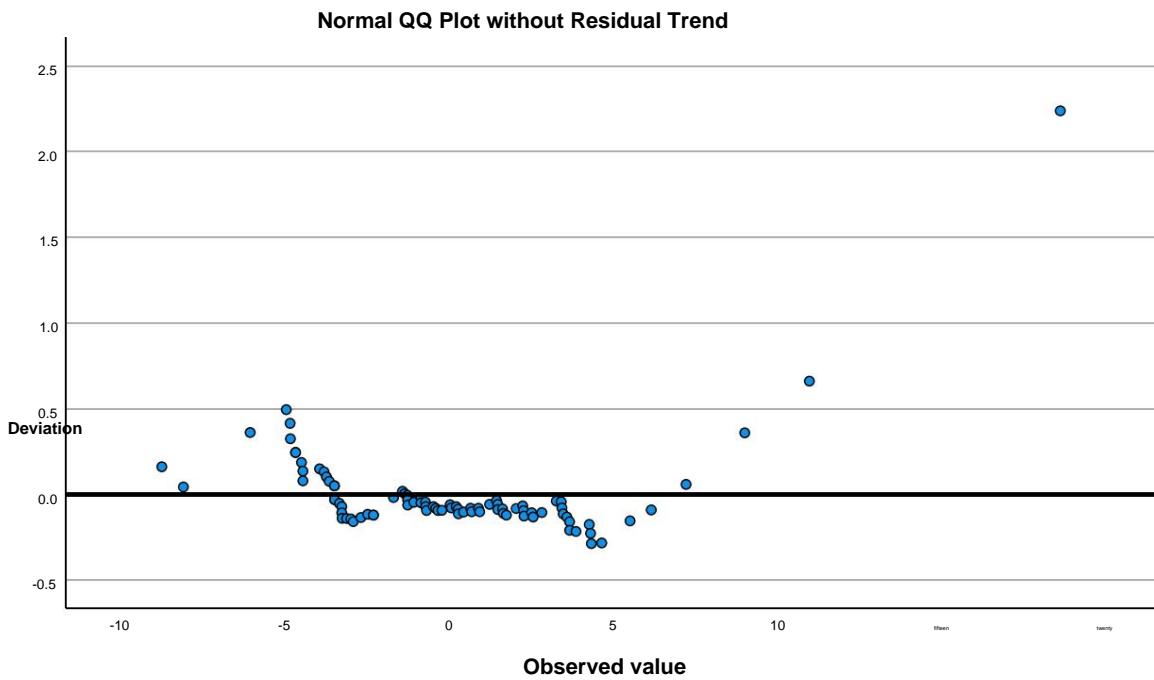
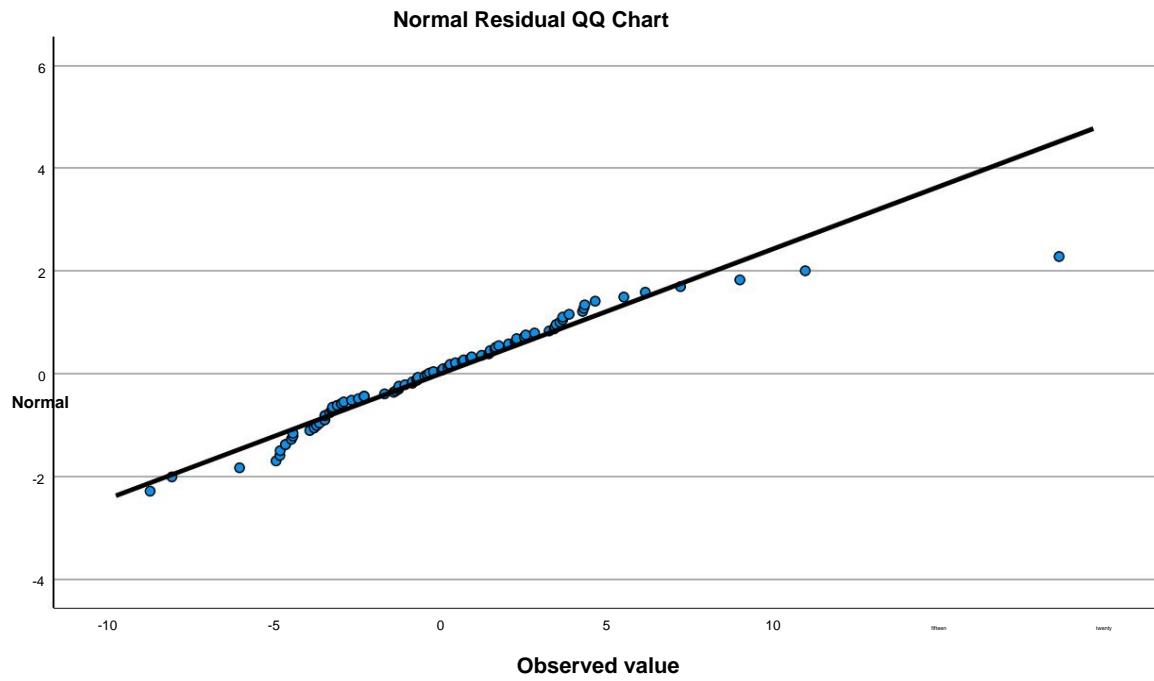
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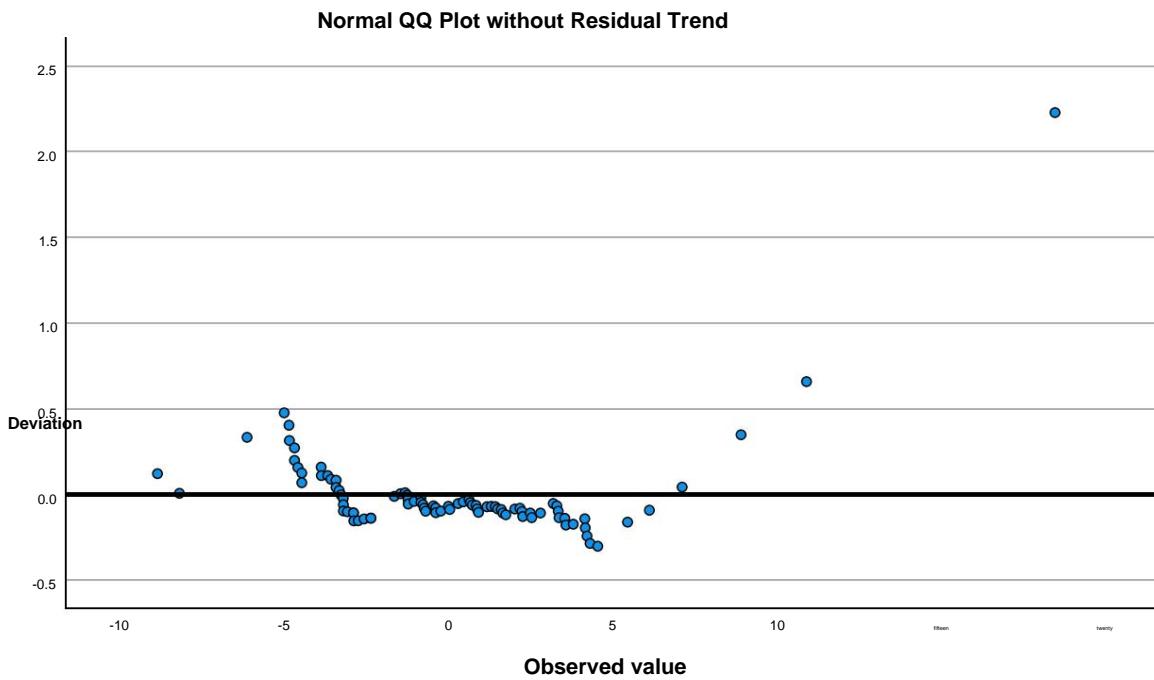
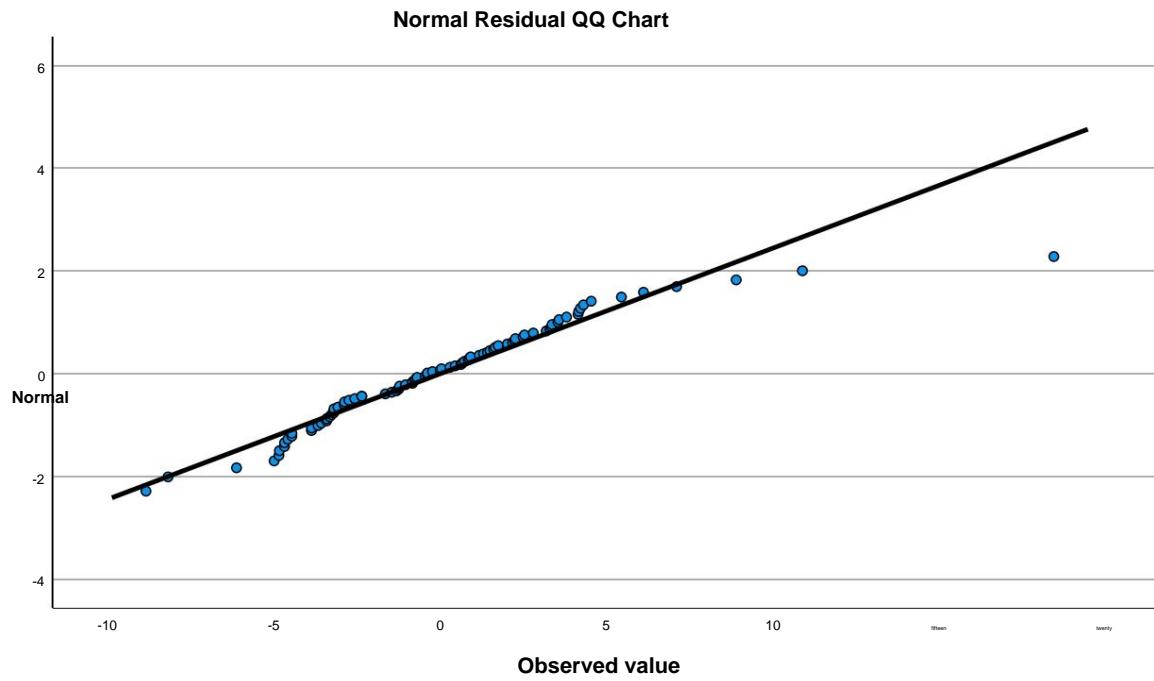
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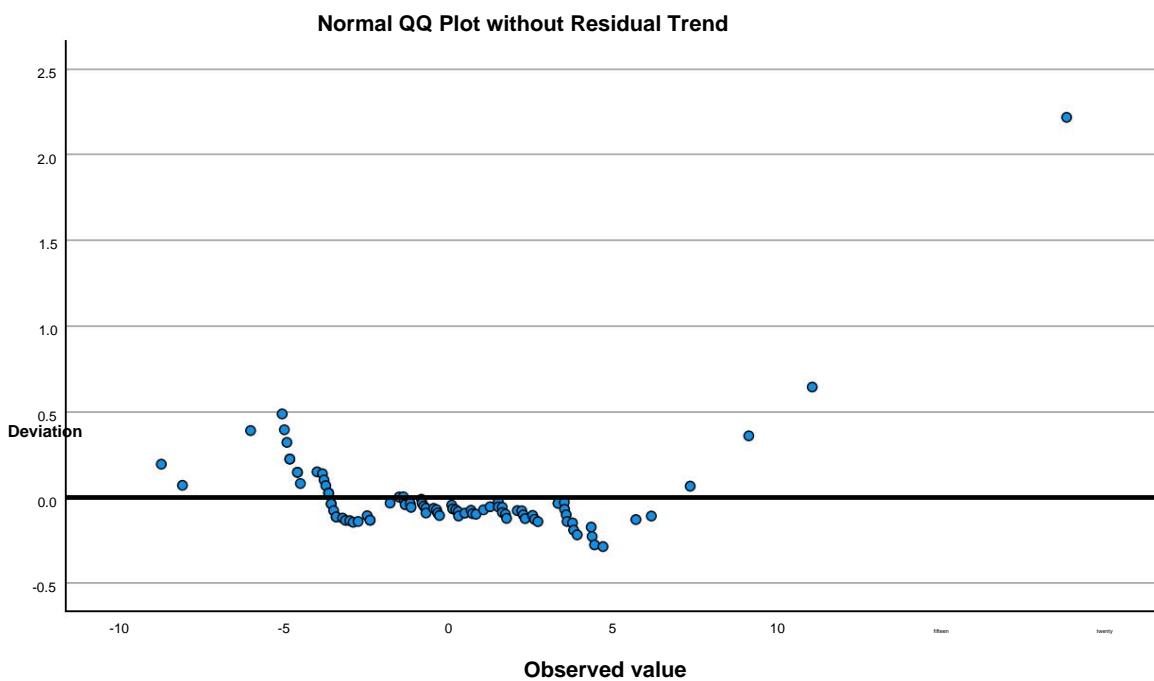
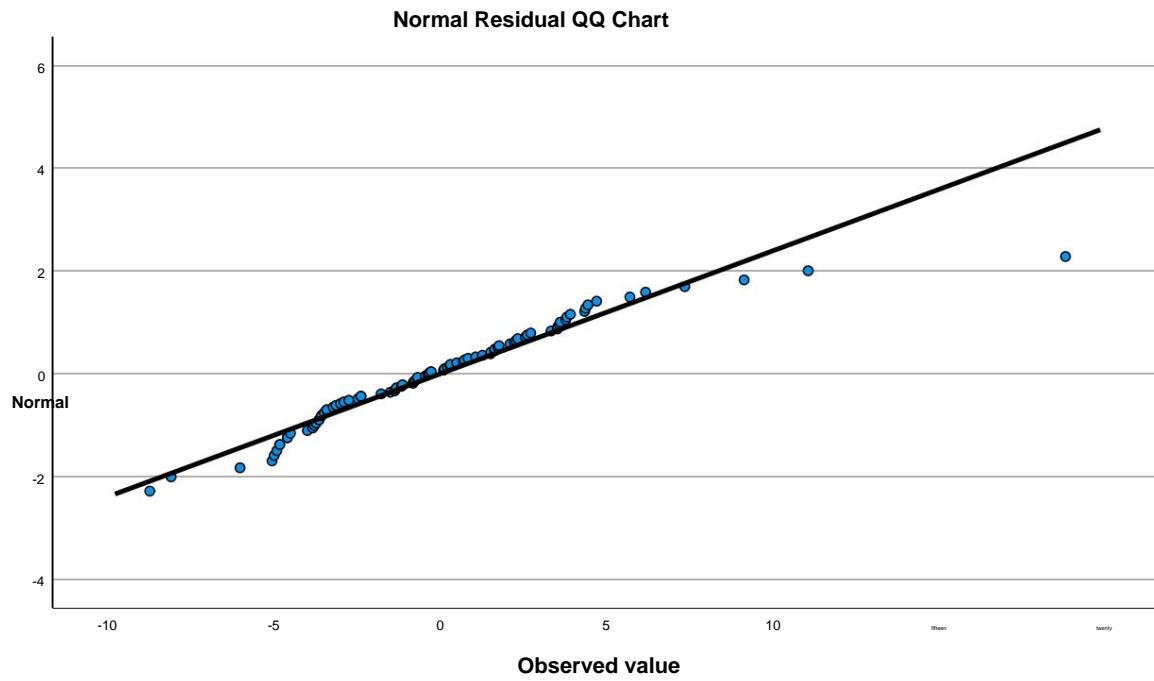
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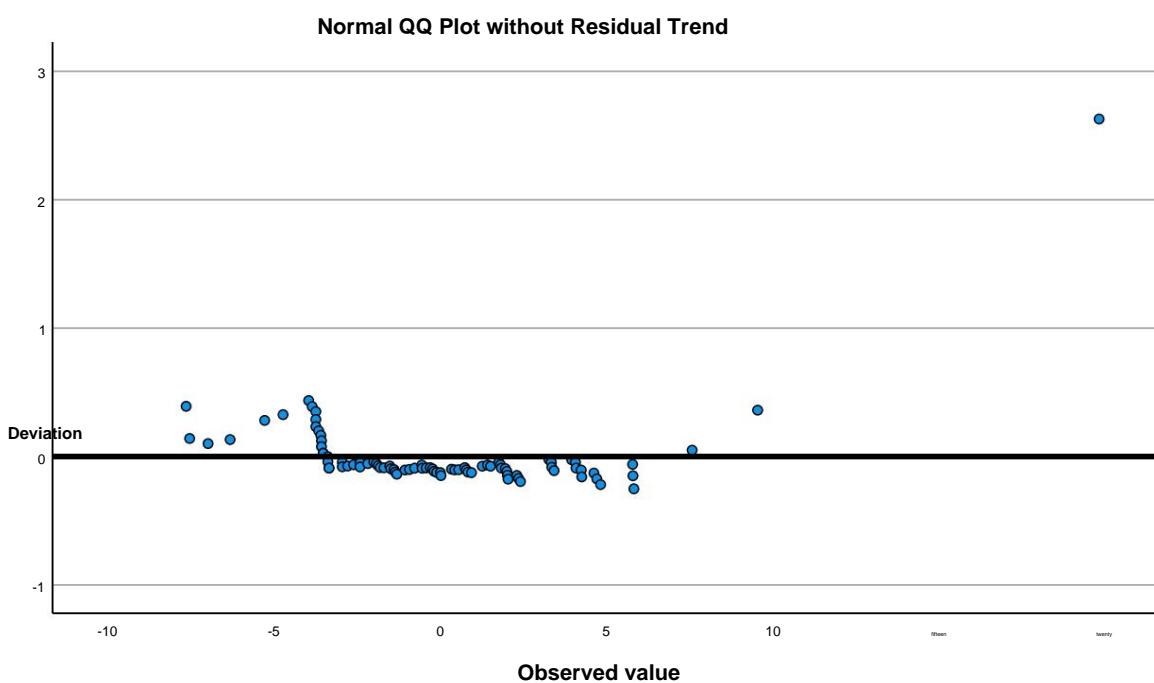
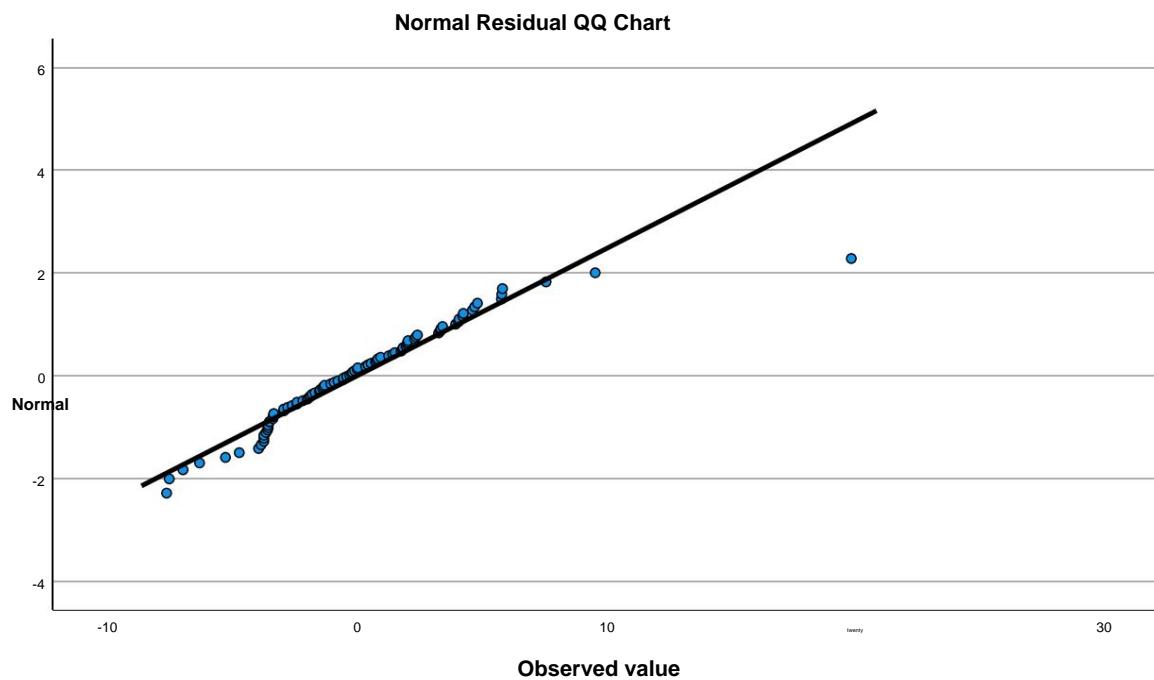
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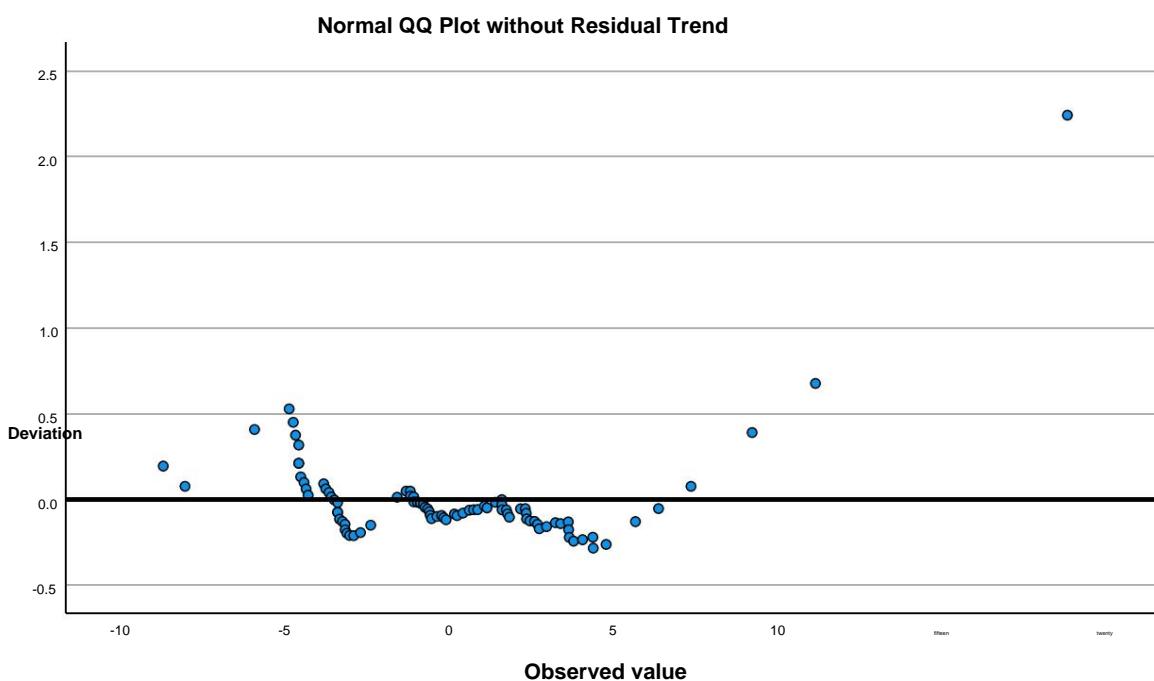
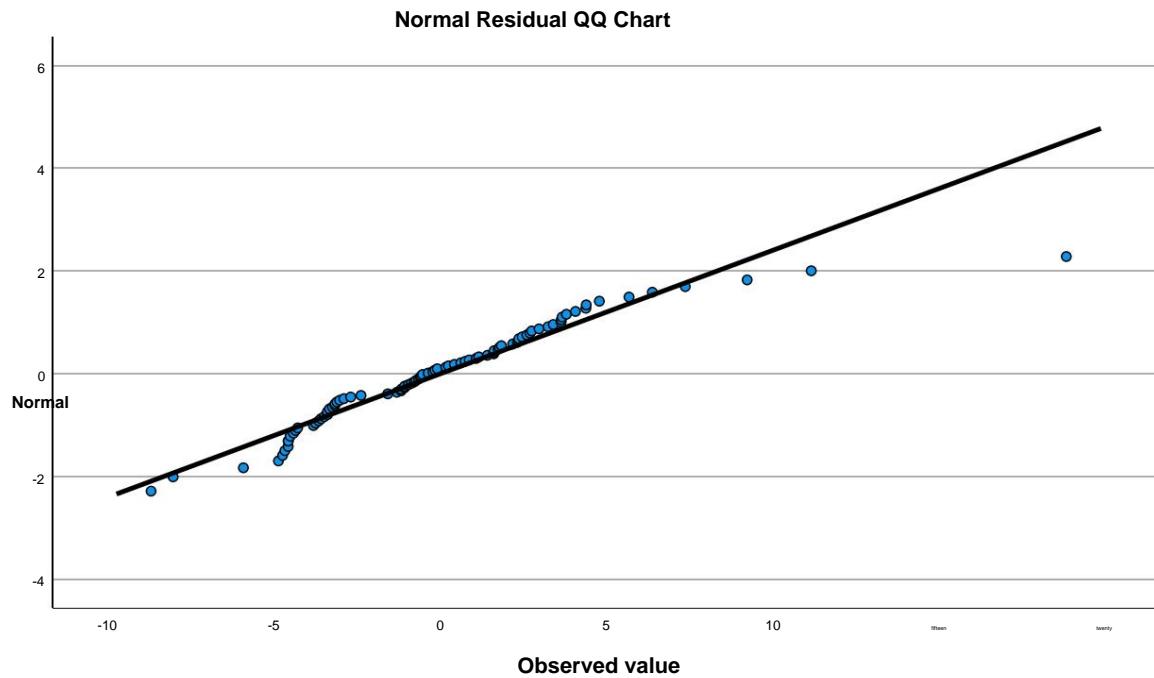
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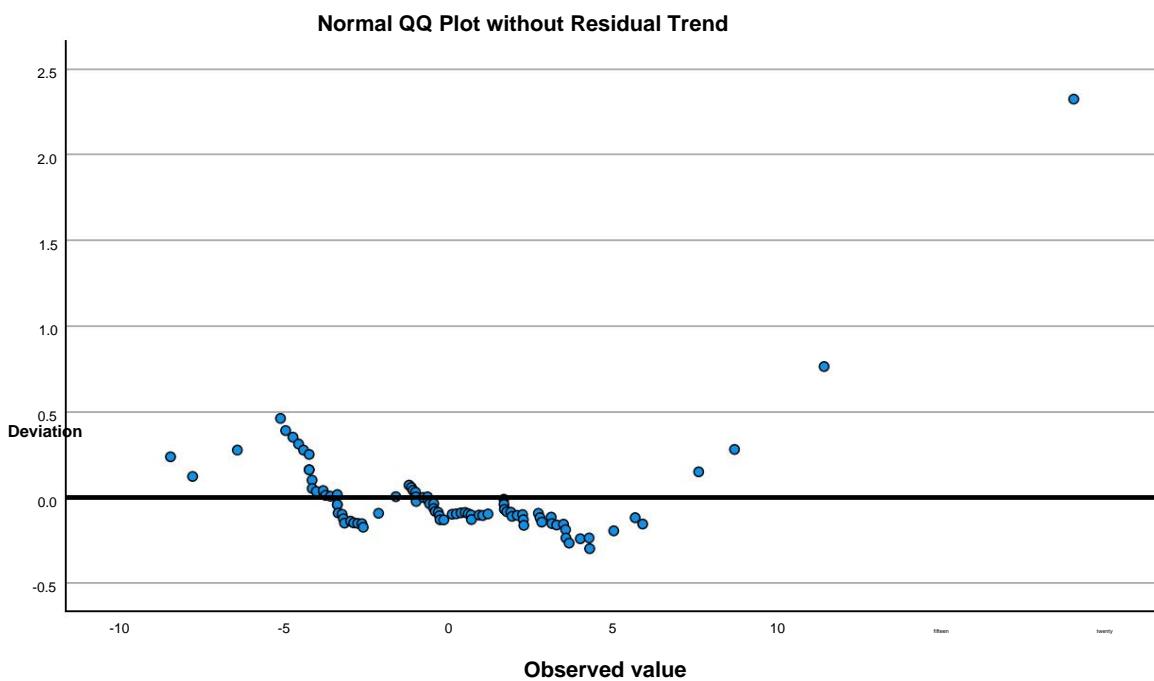
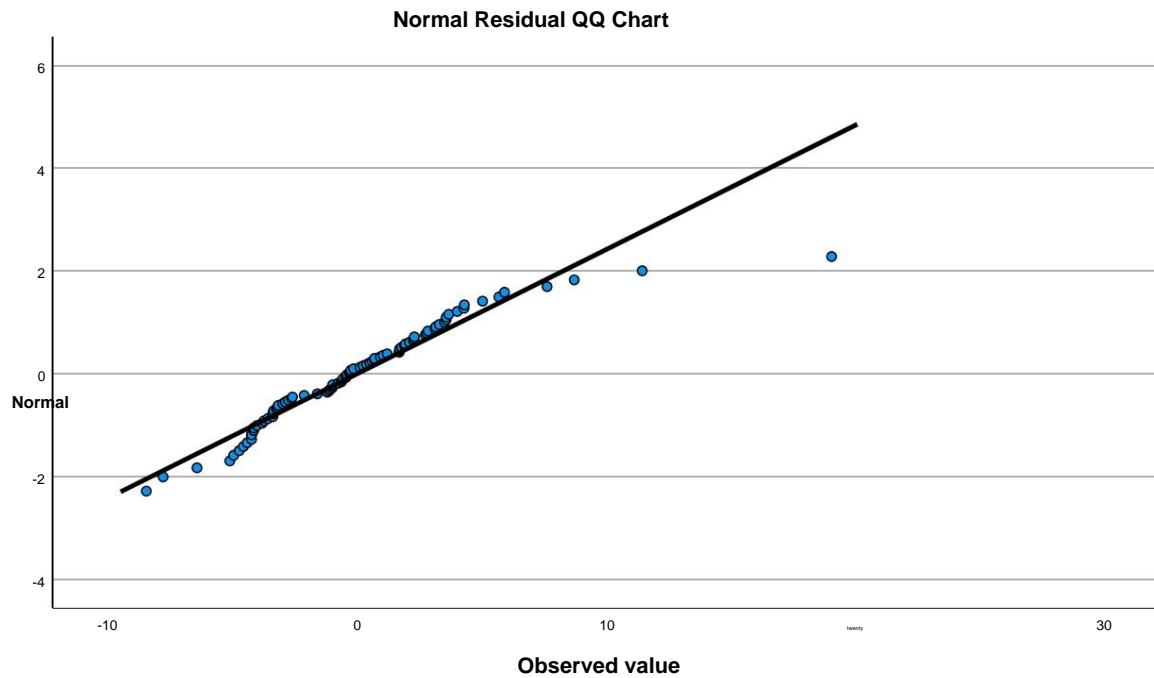
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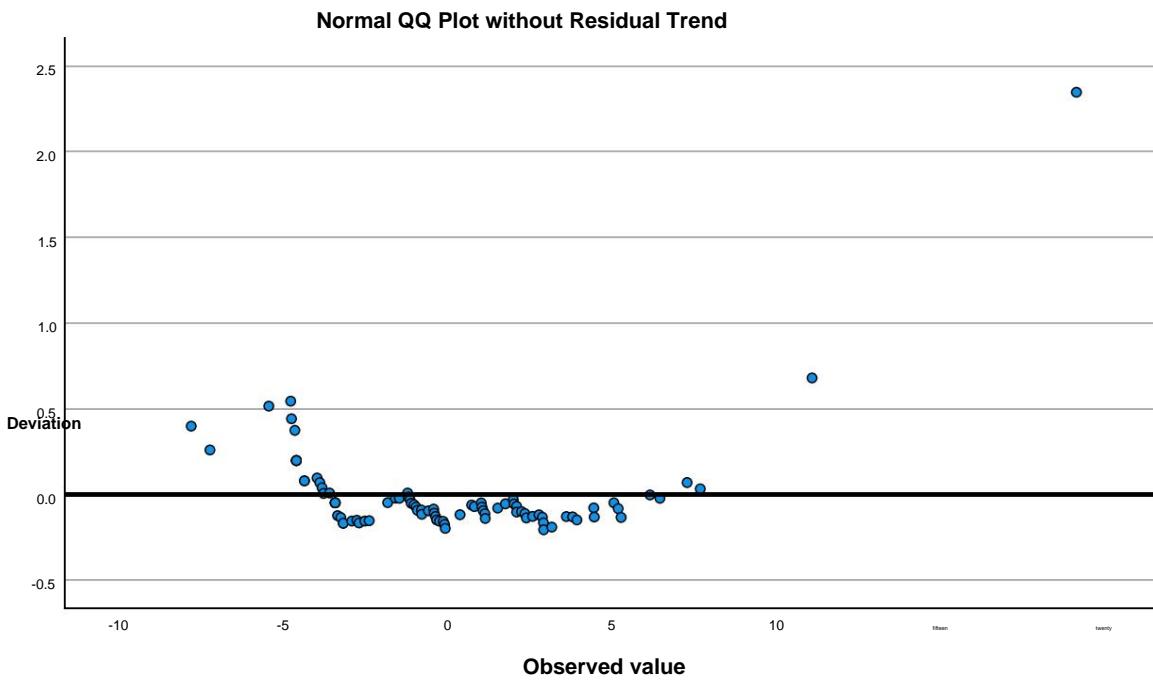
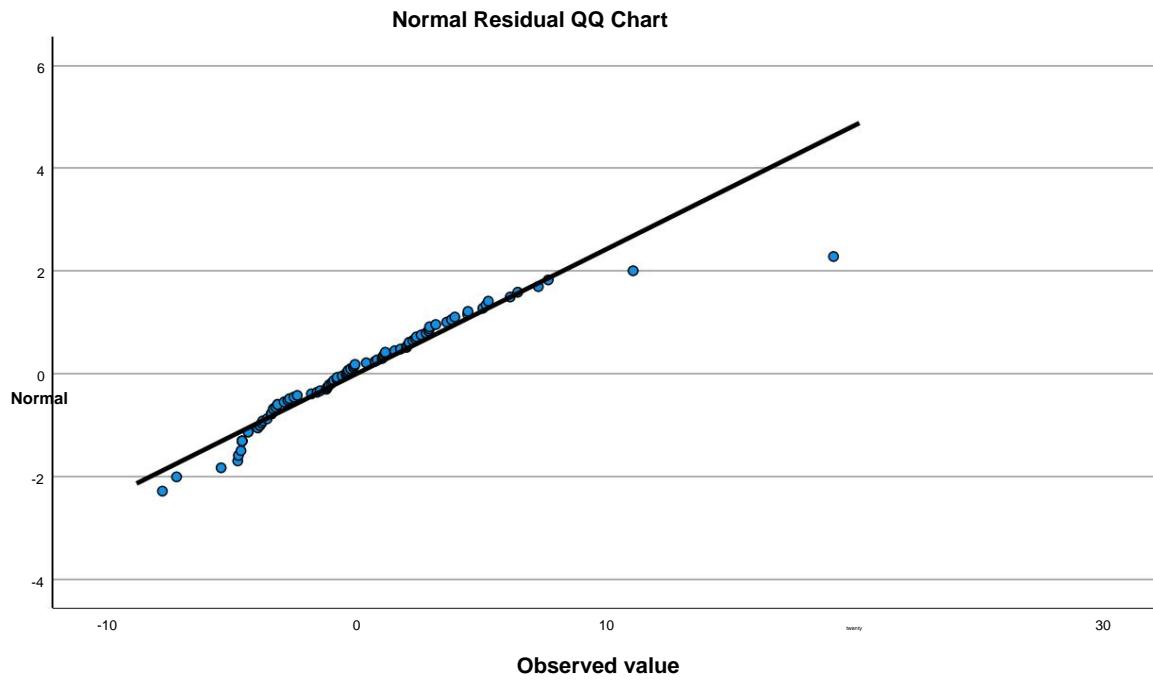
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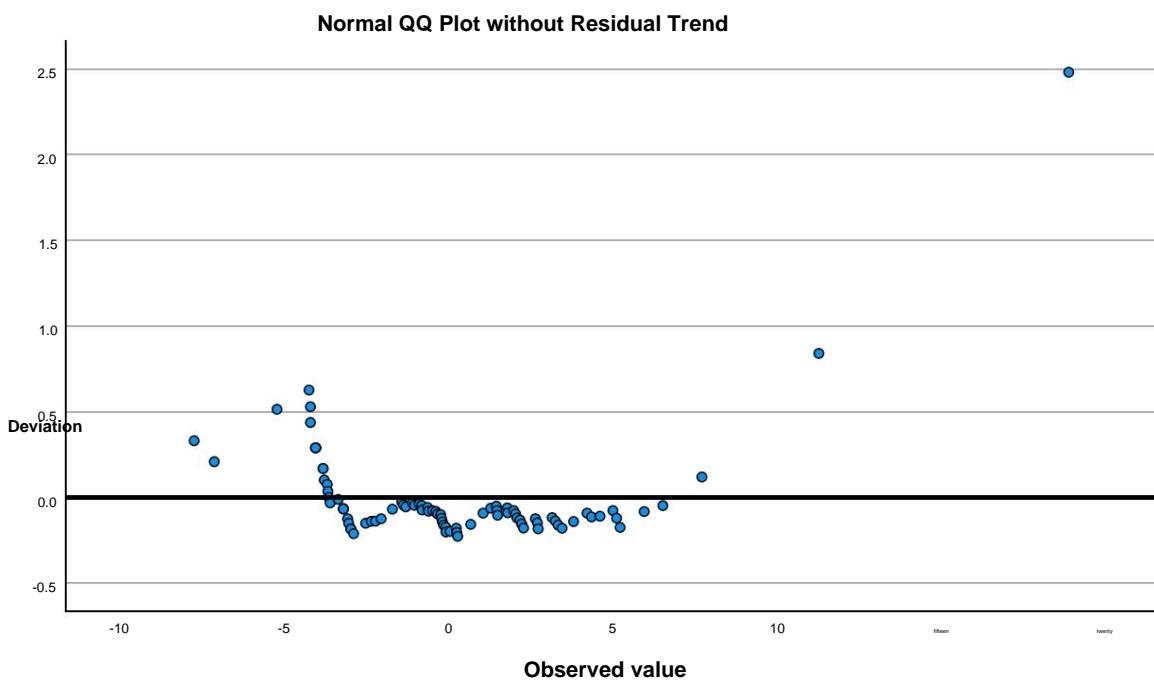
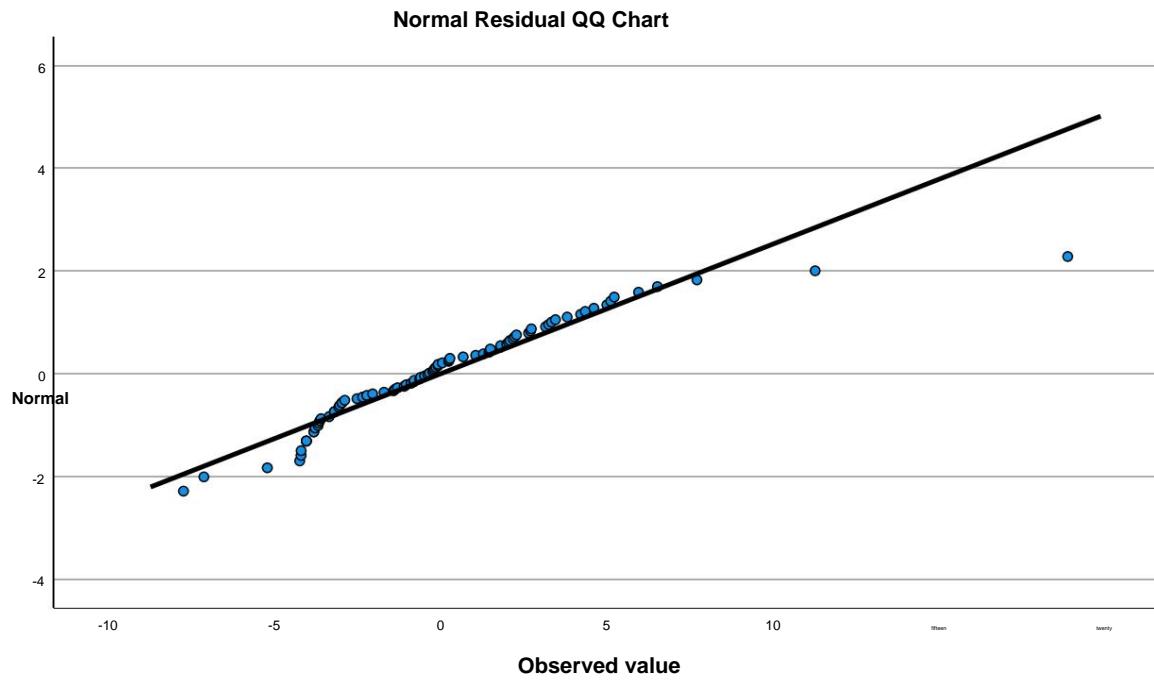
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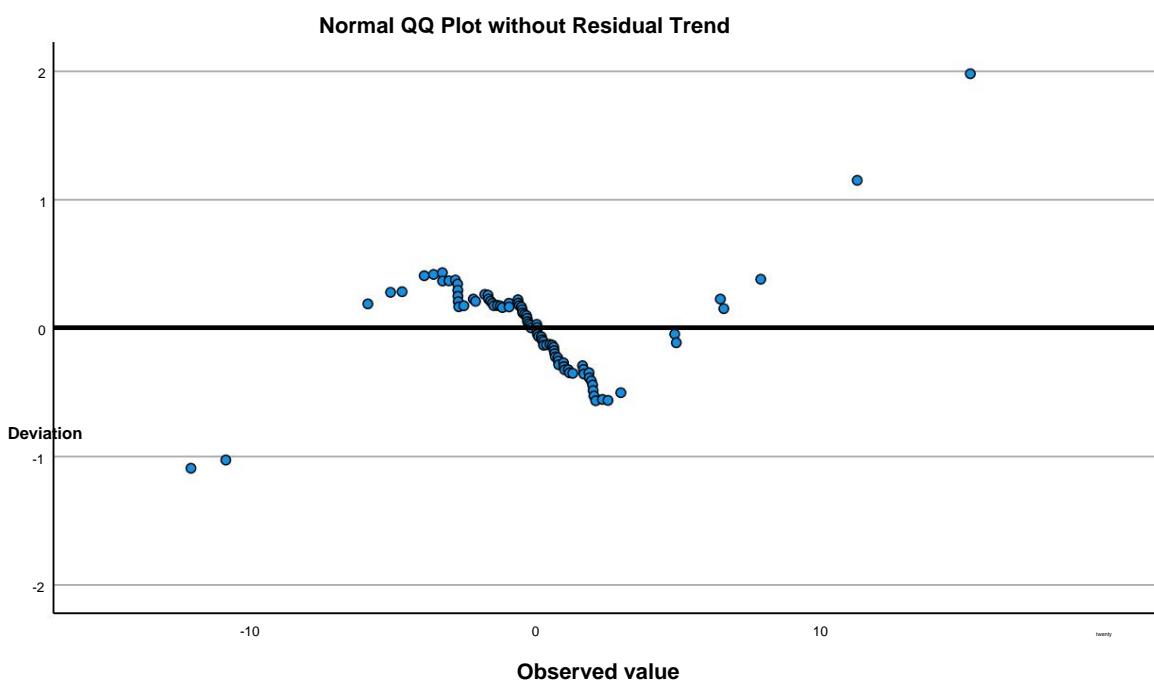
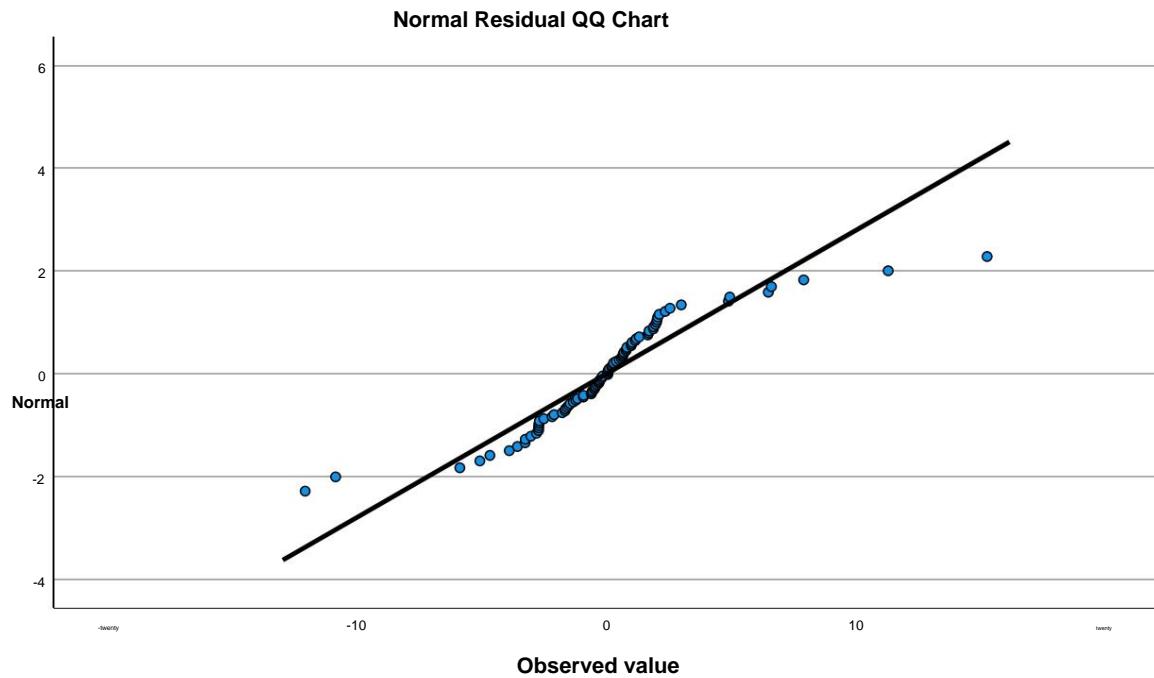
Waste



Waste



Waste



Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		2
	MAIN FACTOR	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh MAIN FACTOR	4		1
	MAIN FACTOR *	6		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66			
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		63		12

Model dimension

		Subject variables	Number of subjects
Fixed effects	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	MAIN FACTOR		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh MAIN FACTOR		
	MAIN FACTOR *		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
ID Random Effects			
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: LN_AVERAGEPLAYTIME.

Information criteriaa

Restricted log-likelihood -2	177.75098252
Information criterion Akaike (AIC)	185.75098252
Hurvich and Tsai criterion (AICC)	186.31436280
Bozdogan Criterion (CAIC)	199.07391588
Bayesian criterion Schwarz (BIC)	195.07391588

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
LN_AVERAGEPLAYTIME.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	38,618	,900	.349
MAIN FACTOR	1	35,373	28,765	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	36,474	1,610	,214
byDEVELOPINGPRACTICE _LowvsMediumHigh MAIN FACTOR	1	38,257	3,146	.084
MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	35,962	.994	.380

to. Dependent variable: LN_AVERAGEPLAYTIME.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	.276	,120
A (2,1)	-,116	.090
A (2,2)	.231	.106
ID	Variance	.236b
		,000

to. Dependent variable: LN_AVERAGEPLAYTIME.

b. This covariance parameter is redundant.

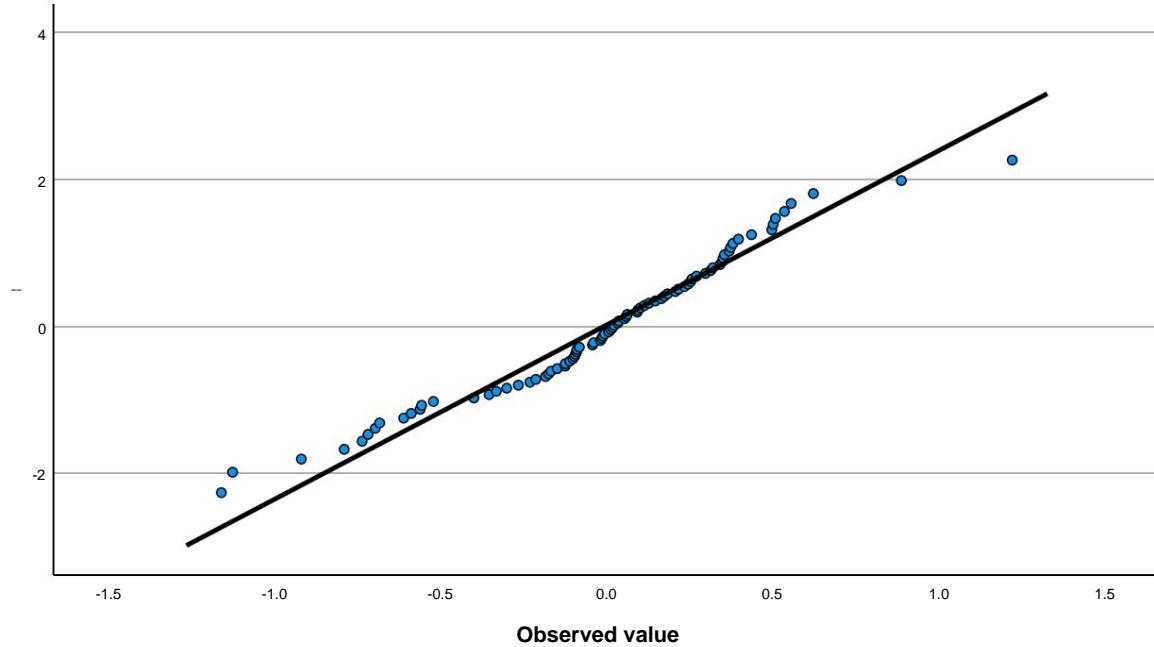
Explore**Case Processing Summary**

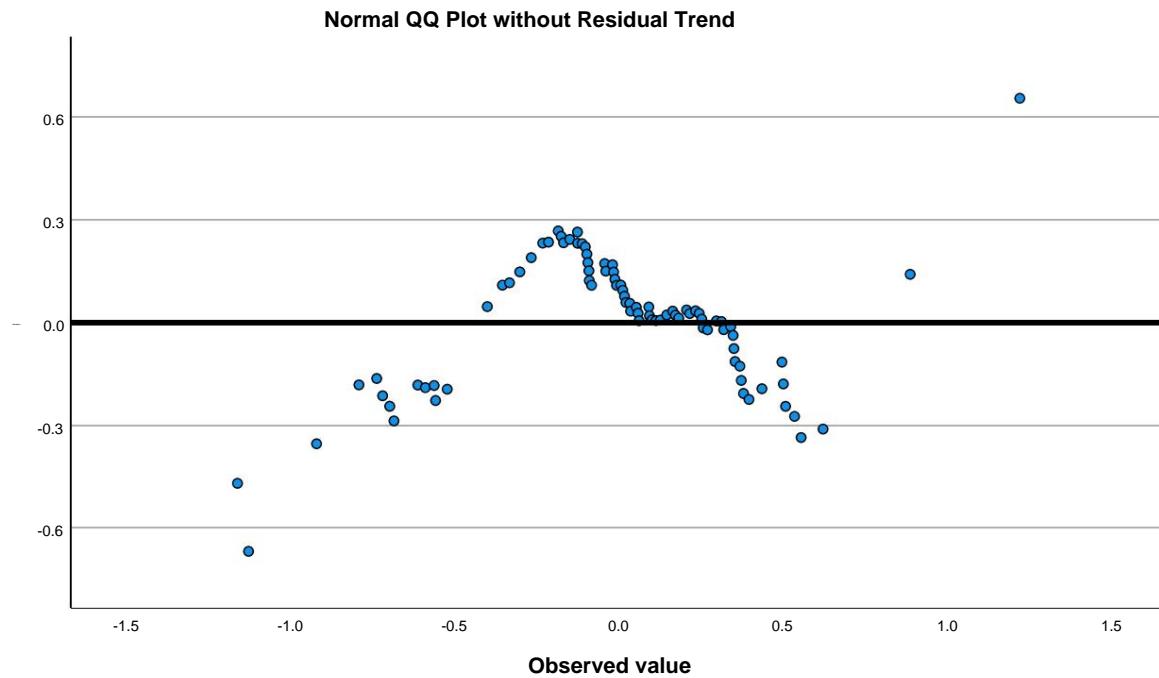
	Valid		Cases		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	84	95.5%	4	4.5%	88	100.0%

Normality tests

	Kolmogorov-Smirnova			Shapiro-Wilk		
	Statistical	gl	Sig.	Statistical	gl	Next.
Waste	.105	84	.023	.969	84	.042

to. Lilliefors significance correction

Waste**Normal Residual QQ Chart**



Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Covariance structure	Number of parameters
Fixed effects	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		2
	MAIN FACTOR	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRAÇTICE _LowvsMediumHigh MAIN FACTOR	4		1
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		57		10

Model dimension

		Subject variables	Number of subjects
Fixed effects	byDEVELOPINGPRACTICE _LowvsMediumHigh MAIN FACTOR ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66 byDEVELOPINGPRACTICE _LowvsMediumHigh MAIN FACTOR		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: LN_AVERAGEPLAYTIME.

Information criteriaa

Restricted log-likelihood -2	179.41737353
Information criterion Akaike (AIC)	187.41737353
Hurvich and Tsai criterion (AICC)	187.96531873
Bozdogan Criterion (CAIC)	200.84420884
Bayesian criterion Schwarz (BIC)	196.84420884

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
LN_AVERAGEPLAYTIME.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	38,685	.818	.371
MAIN FACTOR	1	37,615	43,369	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	36,713	1,440	,250
byDEVELOPINGPRACTICE _LowvsMediumHigh MAIN FACTOR	1	37,611	6,585	.014

to. Dependent variable: LN_AVERAGEPLAYTIME.

Covariance parameters

Covariance Parameter Estimates^a

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	.279	,120
A (2,1)	-,110	.090
A (2,2)	.233	.105
ID	Variance	.234b
		,000

to. Dependent variable: LN_AVERAGEPLAYTIME.

b. This covariance parameter is redundant.

Explore

Case Processing Summary

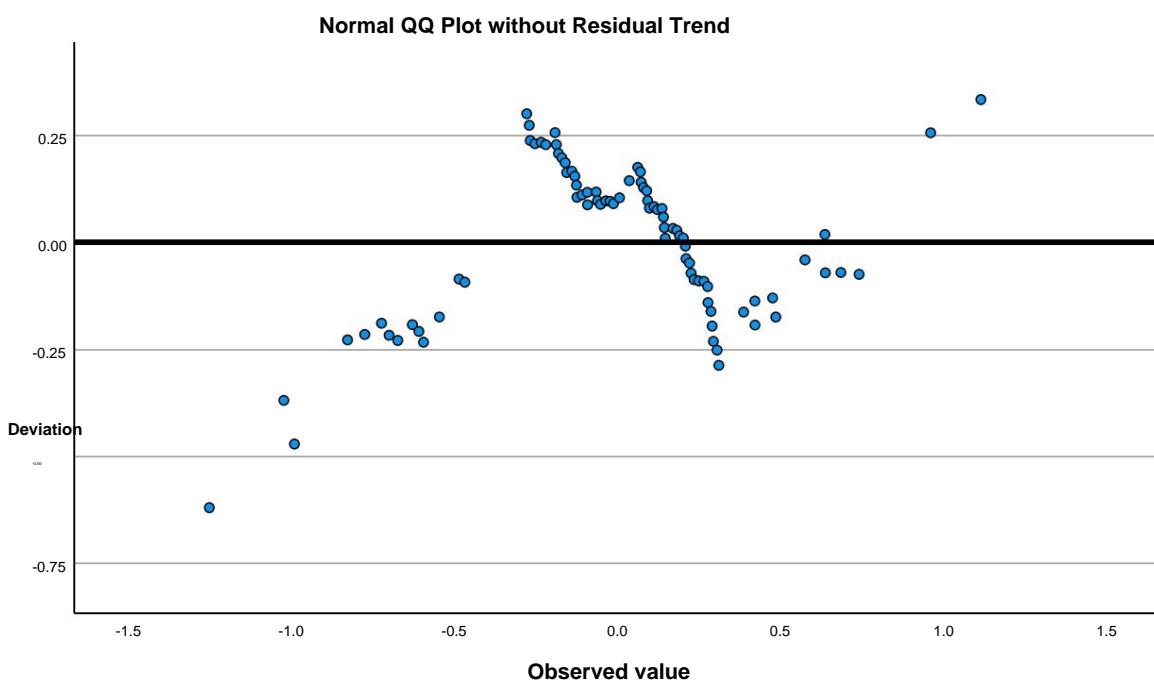
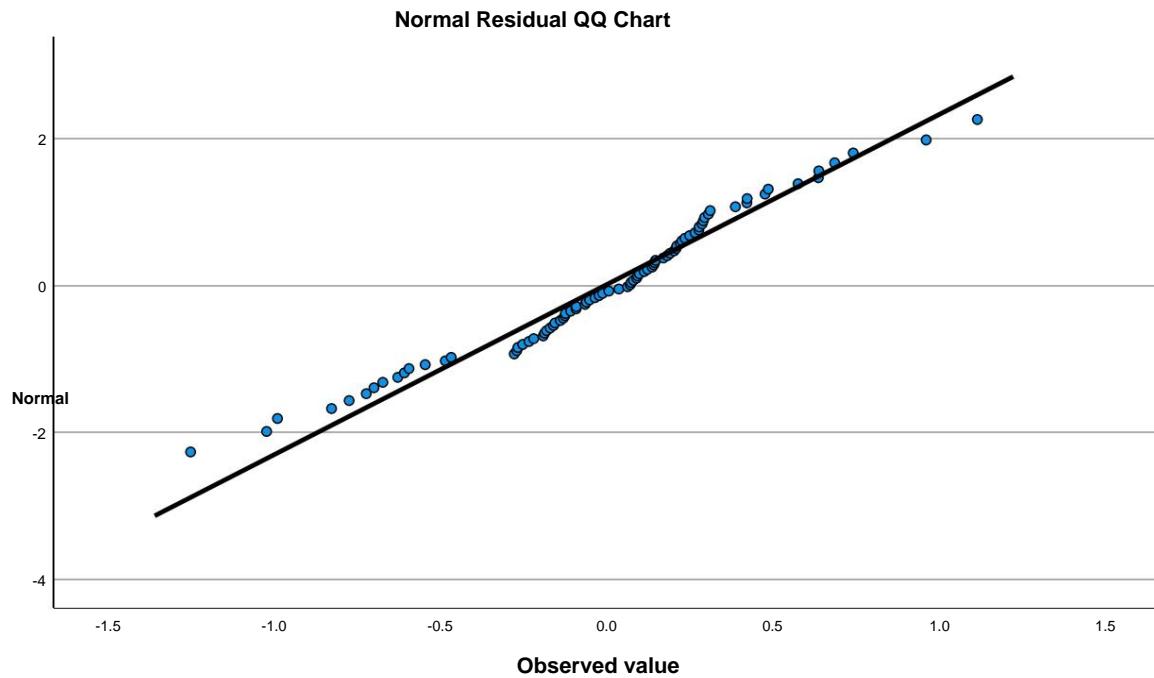
	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	84	95.5%	4	4.5%	88	100.0%

Normality tests

	Kolmogorov-Smirnova gl			Shapiro-Wilk		
	Statistical	Sig.	gl	Statistical	gl	Next.
Waste	.098	84	.044	.973	84	.076

to. Lilliefors significance correction

Waste



Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		53		9

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: LN_AVERAGEPLAYTIME.

Information criteriaa

Restricted log-likelihood -2	184.93709090
Information criterion Akaike (AIC)	192.93709090
Hurvich and Tsai criterion (AICC)	193.47763144
Bozdogan Criterion (CAIC)	206.41488231
Bayesian criterion Schwarz (BIC)	202.41488231

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable:
LN_AVERAGEPLAYTIME.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	38,210	32,945	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	36,454	1,486	.240
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	38,716	1,102	,300

to. Dependent variable: LN_AVERAGEPLAYTIME.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	.297	.131
A (2,1)	-,148	.093
A (2,2)	.243	,113
ID Variance	.245b	,000

to. Dependent variable: LN_AVERAGEPLAYTIME.

b. This covariance parameter is redundant.

Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved.
The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	byDEVELOPINGPRACTICE _LowvsMediumHigh MAIN FACTOR	4		1
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		57		10

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	byDEVELOPINGPRACTICE _LowvsMediumHigh MAIN FACTOR		
ID Random Effects			
Repeated effects MAINFACTOR	ID	44	
Total			

to. Dependent variable: LN_AVERAGEPLAYTIME.

Information criteriaa

Restricted log-likelihood -2	179.41737353
Information criterion Akaike (AIC)	187.41737353
Hurvich and Tsai criterion (AICC)	187.96531873
Bozdogan Criterion (CAIC)	200.84420884
Bayesian criterion Schwarz (BIC)	196.84420884

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
LN_AVERAGEPLAYTIME.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	37,615	43,369	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	36,713	1,440	,250
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	38,685	.818	.371
byDEVELOPINGPRACTICE _LowvsMediumHigh MAIN FACTOR	1	37,611	6,585	.014

to. Dependent variable: LN_AVERAGEPLAYTIME.

Covariance parameters

Covariance Parameter Estimates^a

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	.279	,120
A (2,1)	-,110	.090
A (2,2)	.233	.105
ID Variance	.234b	,000

to. Dependent variable: LN_AVERAGEPLAYTIME.

b. This covariance parameter is redundant.

Explore

Case Processing Summary

	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	84	95.5%	4	4.5%	88	100.0%
Waste	84	95.5%	4	4.5%	88	100.0%

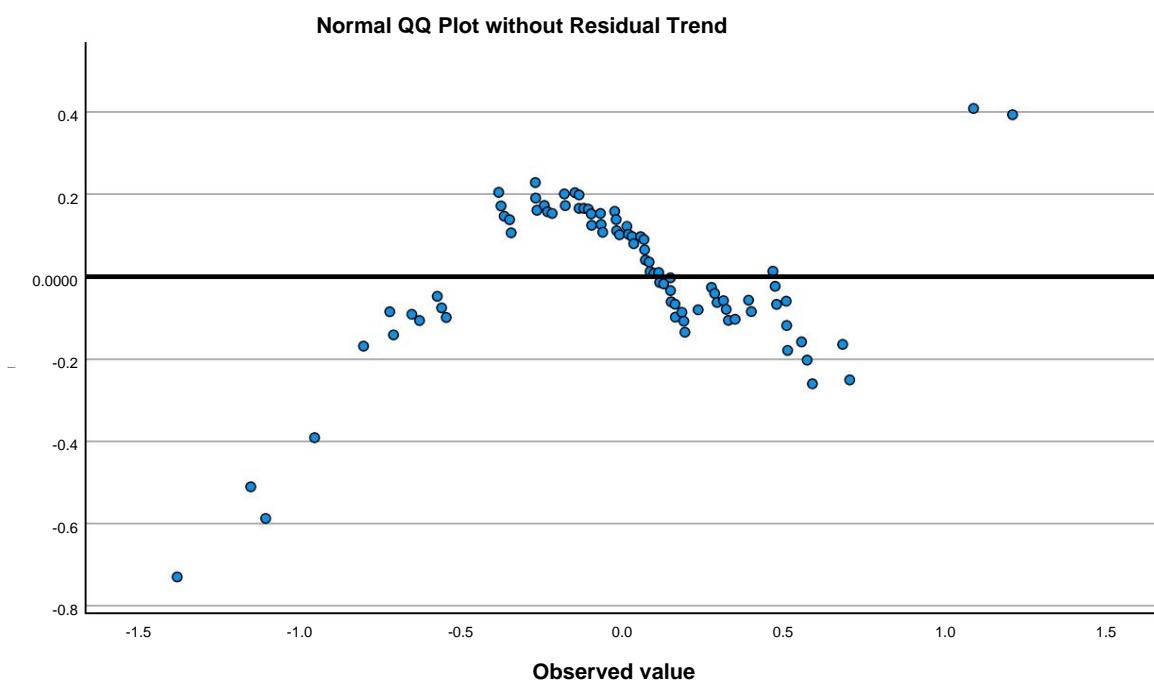
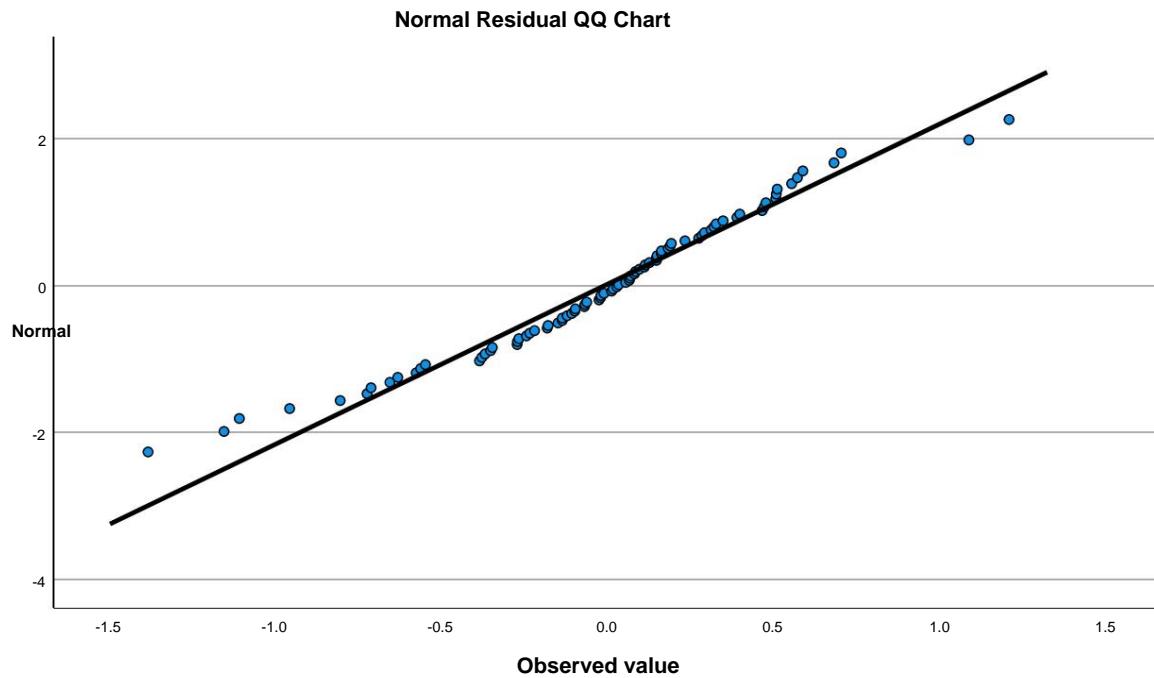
Normality tests

	Kolmogorov-Smirnova gl		Statistical	Shapiro-Wilk	
	Statistical	Sig. ,200*		gl	Next.
Waste	.083	84	.974	84	.088
Waste	.098	84	.044	.973	84

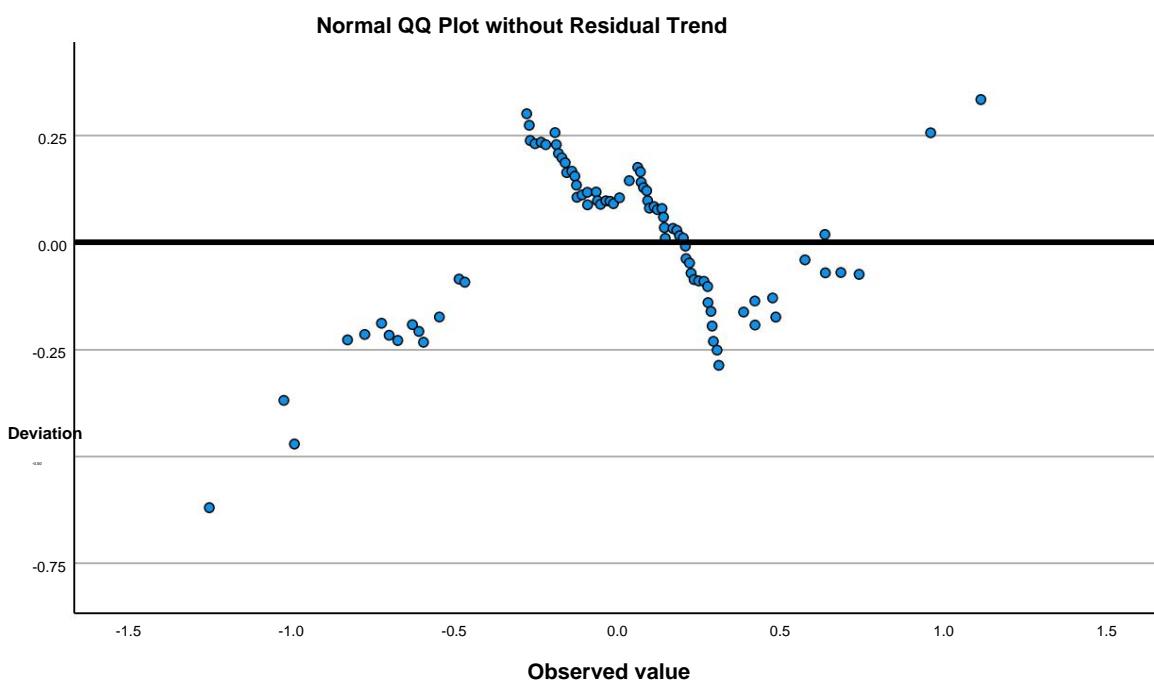
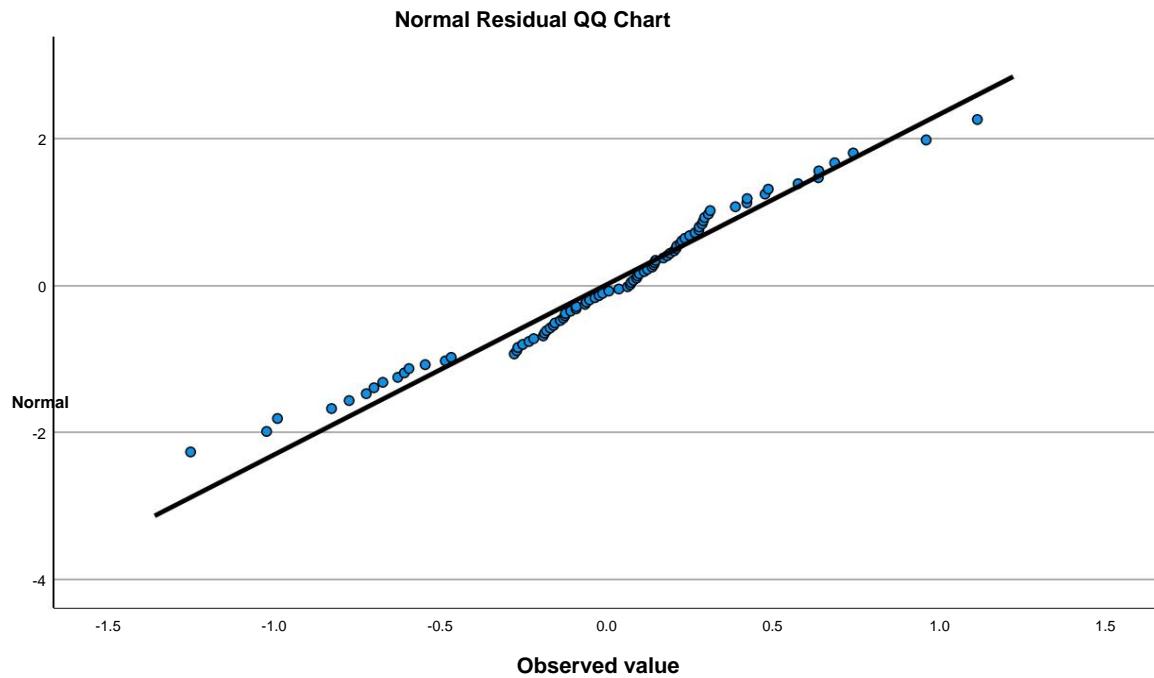
*. This is a lower limit of true significance.

to. Lilliefors significance correction

Waste



Waste



Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	MAIN FACTOR * GROUP	4		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66	3		2
	ID Random Effects	44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		57		10

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	MAIN FACTOR * GROUP		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	542.72732736
Information criterion Akaike (AIC)	550.72732736
Hurvich and Tsai criterion (AICC)	551.24680787
Bozdogan Criterion (CAIC)	564.35420434
Bayesian criterion Schwarz (BIC)	560.35420434

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	42,000	1984	.166
GROUP	1	40,120	.003	.956
MAIN FACTOR * GROUP	1	42,000	2,329	.134
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	40,021	.434	.651

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	39,846	15,233
A (2,1)	15,347	11,310
A (2,2)	18,985	10,551
ID	Variance	,000

to. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Explore

Case Processing Summary

	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

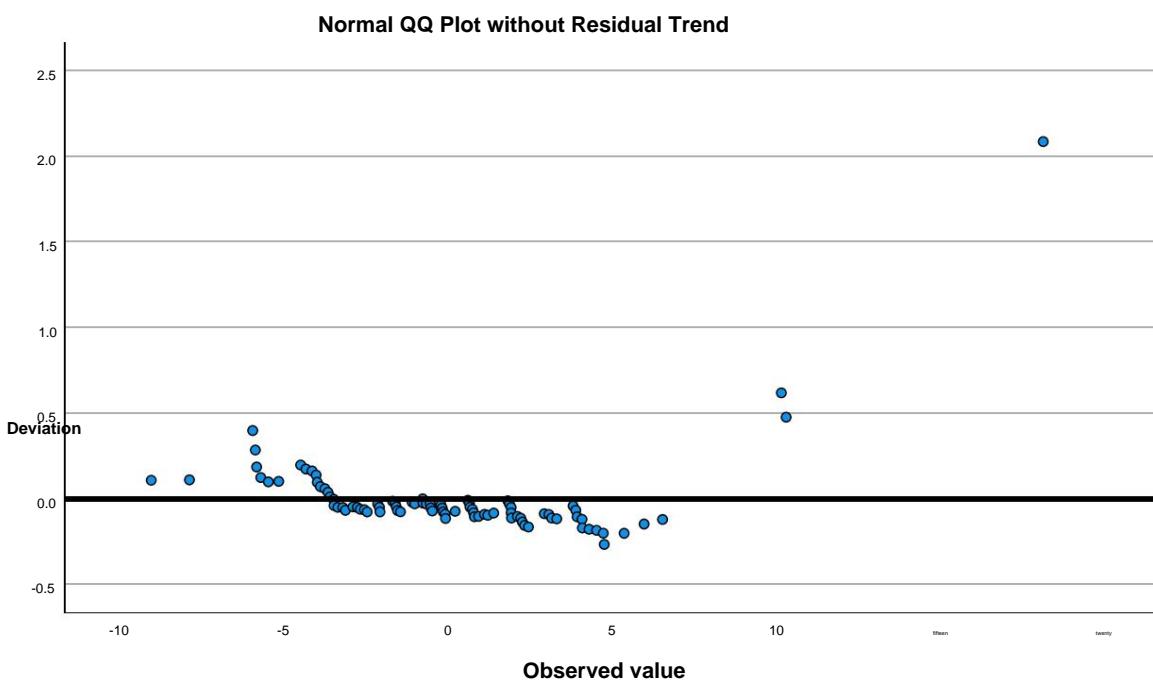
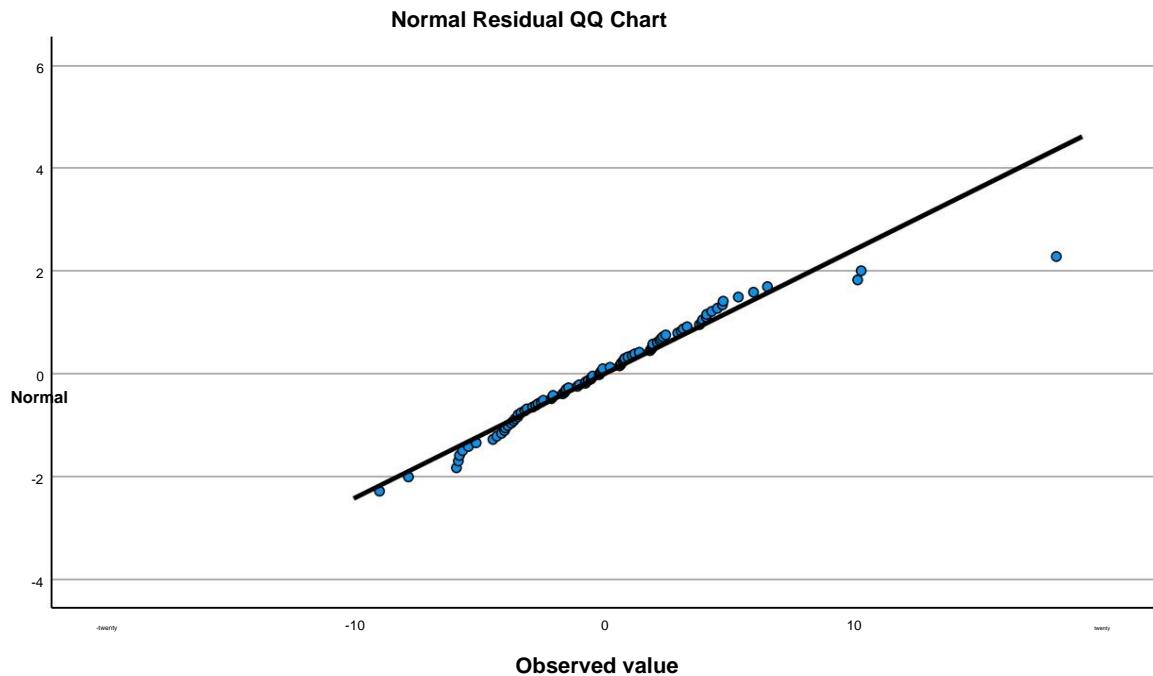
Normality tests

	Kolmogorov-Smirnova gl		Statistical	Shapiro-Wilk	
	Statistical	Sig. ,200*		gl	Next.
Waste	.061	88	.944	88	<.001

*. This is a lower limit of true significance.

to. Lilliefors significance correction

Waste



Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	MAIN FACTOR * GROUP	4		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66	3		2
	MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66	6		2
	ID Random Effects	44 Identity		1
	Repeated effects MAINFACTOR	2 Without structure		3
Total		63		12

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	MAIN FACTOR * GROUP		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66		
	MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66		
	ID Random Effects		
	Repeated effects MAINFACTOR	ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	533.44160406
Information criterion	541.44160406
Akaike (AIC)	
Hurvich and Tsai criterion (AICC)	541.97493739
Bozdogan Criterion (CAIC)	554.96971060
Bayesian criterion	550.96971060
Schwarz (BIC)	

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	40,059	1,081	.305
GROUP	1	39,998	,000	.989
MAIN FACTOR * GROUP	1	39,961	1,587	,215
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	40,001	.579	.565
MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	40,010	1,351	.271

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	39,625 9719608,461	
A (2,1)	15,529 9719608,461	
A (2,2)	19,107 9719608,461	
ID	Variance	28,088 9719608,461

to. Dependent variable: SQRT_LengthComments.

Explore

Case Processing Summary

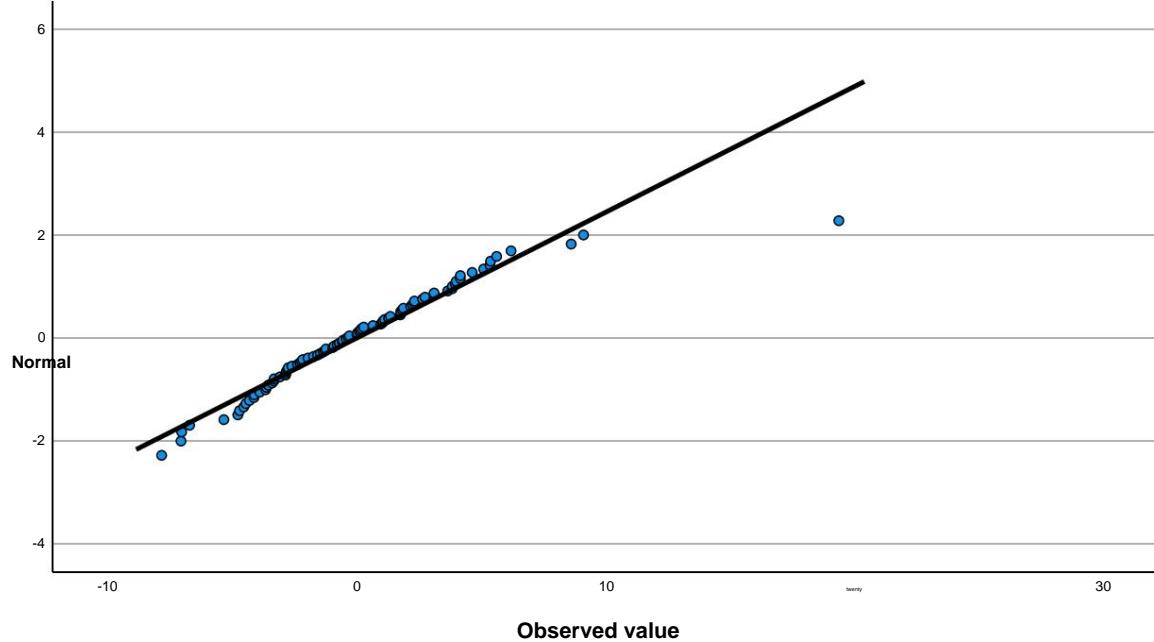
	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

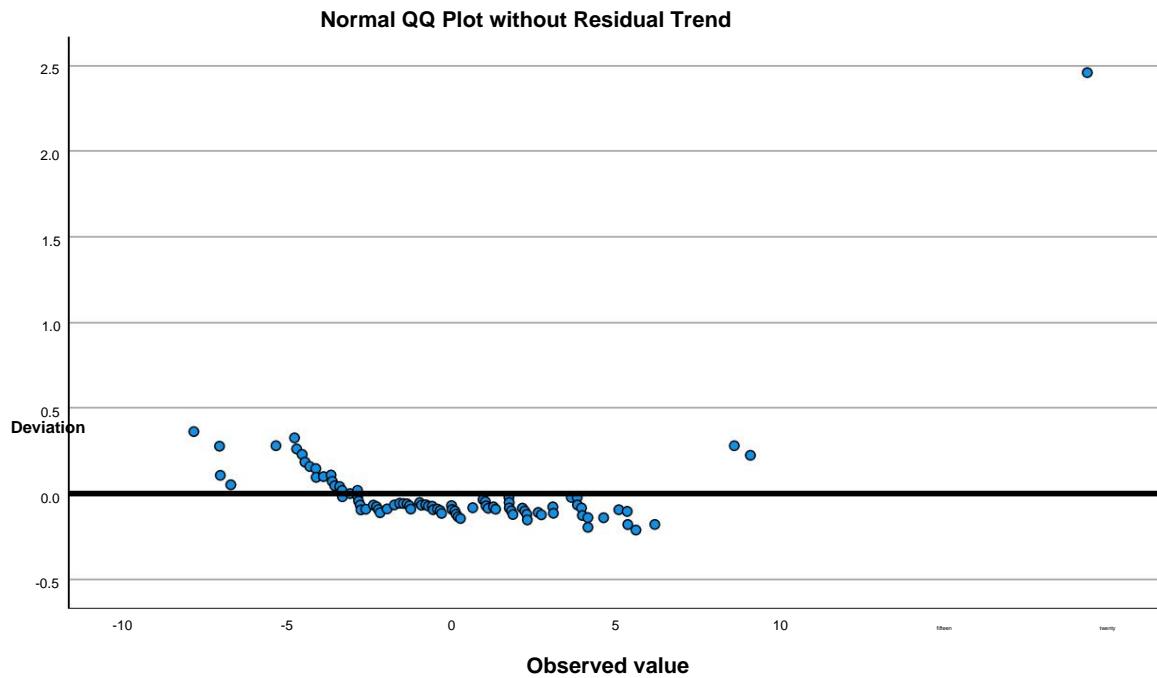
Normality tests

	Kolmogorov-Smirnova			Shapiro-Wilk		
	Statistical	gl	Sig. ,200*	Statistical	gl	Next.
Waste	.064	88	.929	.929	88	<.001

*. This is a lower limit of true significance.

to. Lilliefors significance correction

Waste**Normal Residual QQ Chart**



Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	MAIN FACTOR * GROUP	4		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	6		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	ID Random Effects	44 Identity		1
Repeated effects	MAINFACTOR	2	Without structure	3
Total		65		13

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	MAIN FACTOR * GROUP		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
ID Random Effects			
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	529.62659844
Information criterion Akaike (AIC)	537.62659844
Hurvich and Tsai criterion (AICC)	538.16713898
Bozdogan Criterion (CAIC)	551.10438985
Bayesian criterion Schwarz (BIC)	547.10438985

The information criteria are displayed in the the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	39,864	1,081	,305
GROUP	1	39,367	.009	,926
MAIN FACTOR * GROUP	1	39,961	1,587	,215
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66	2	39,659	.651	,527
MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66	2	39,912	1,351	,271
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	39,033	,169	,683

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	42,007	10230289,090
A (2,1)	17,902	10230289,090
A (2,2)	21,471	10230289,090
ID	Variance	26,712
		10230289,090

to. Dependent variable: SQRT_LengthComments.

Explore

Case Processing Summary

	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

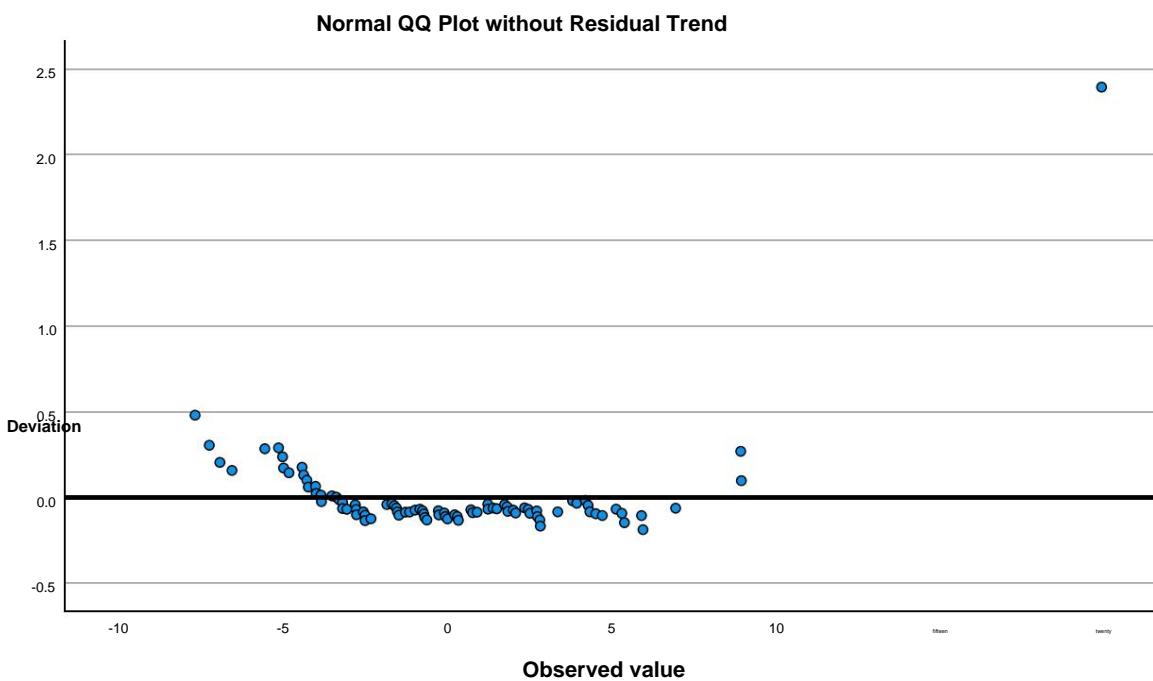
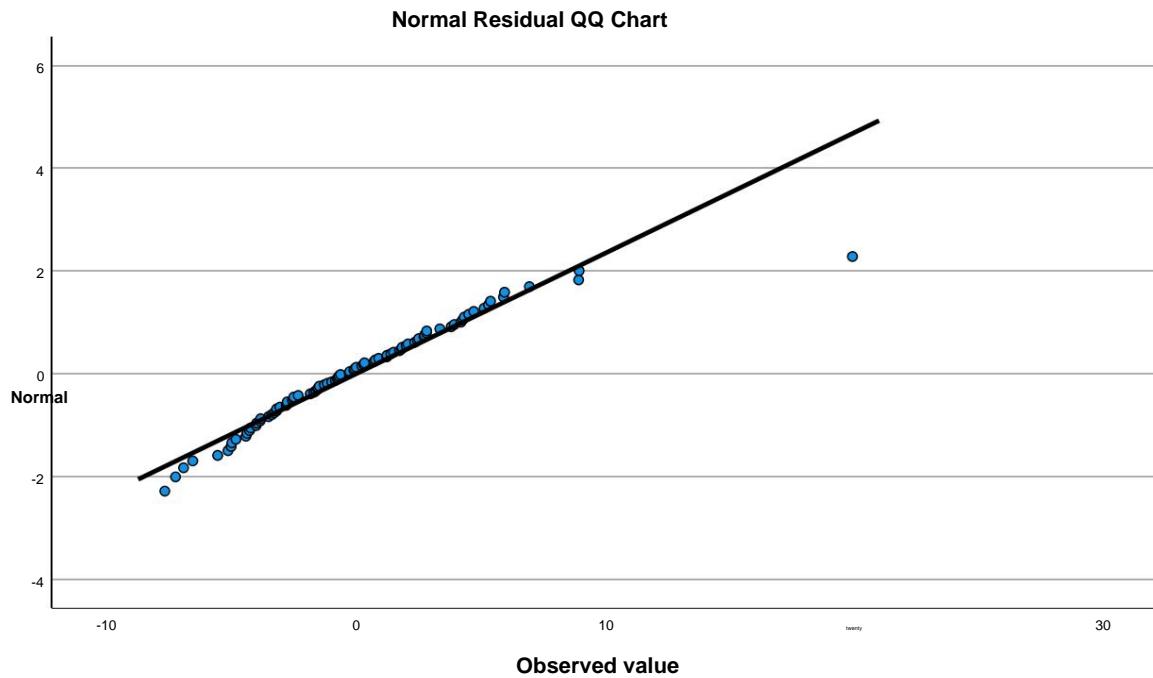
Normality tests

	Kolmogorov-Smirnova		Statistical	Shapiro-Wilk	
	gl	Sig. ,200*		gl	Next.
Waste	.060	88	.931	88	<.001

*. This is a lower limit of true significance.

to. Lilliefors significance correction

Waste



Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	MAIN FACTOR * GROUP	4		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66	3		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	ID Random Effects	44 Identity		1
Repeated effects MAINFACTOR		2	Without structure	3
Total		59		eleven

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	MAIN FACTOR * GROUP		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	538.91232146
Information criterion Akaike (AIC)	546.91232146
Hurvich and Tsai criterion (AICC)	547.43863725
Bozdogan Criterion (CAIC)	560.49011808
Bayesian criterion Schwarz (BIC)	556.49011808

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	42,000	1984	.166
GROUP	1	39,441	.001	.979
MAIN FACTOR * GROUP	1	42,000	2,329	.134
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	39,019	,501	.610
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	39,019	,169	.683

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	40,537	15,554
A (2,1)	16,029	11,659
A (2,2)	19,657	10,907
ID	Variance	,000

to. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Explore

Case Processing Summary

	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

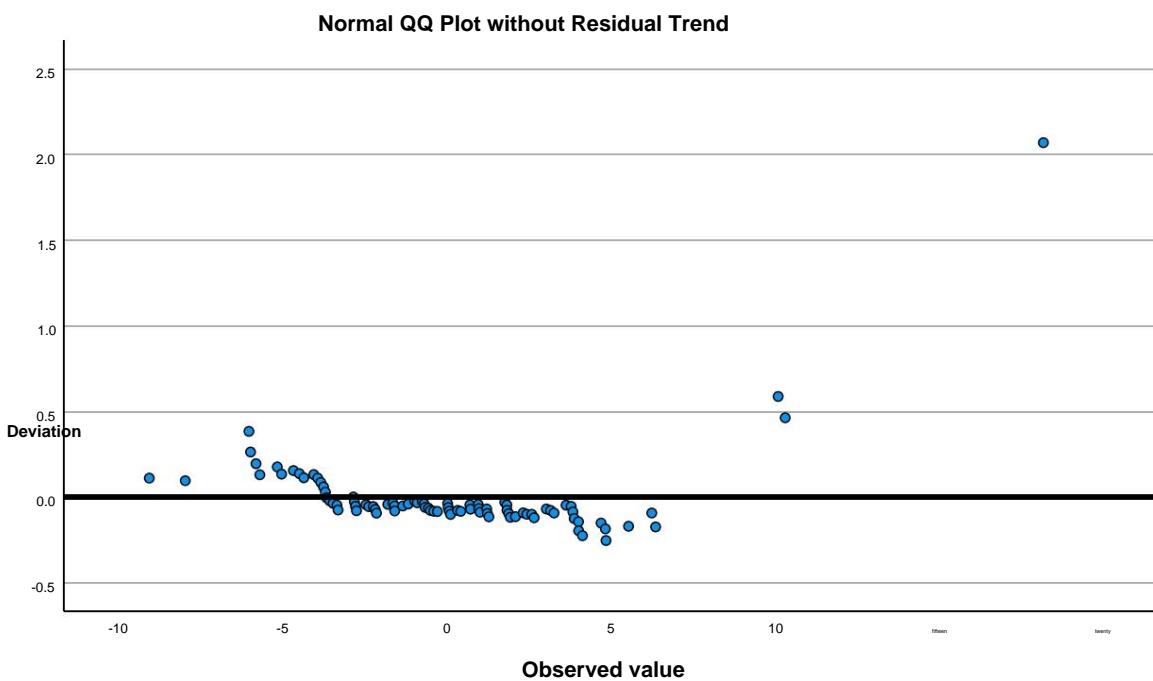
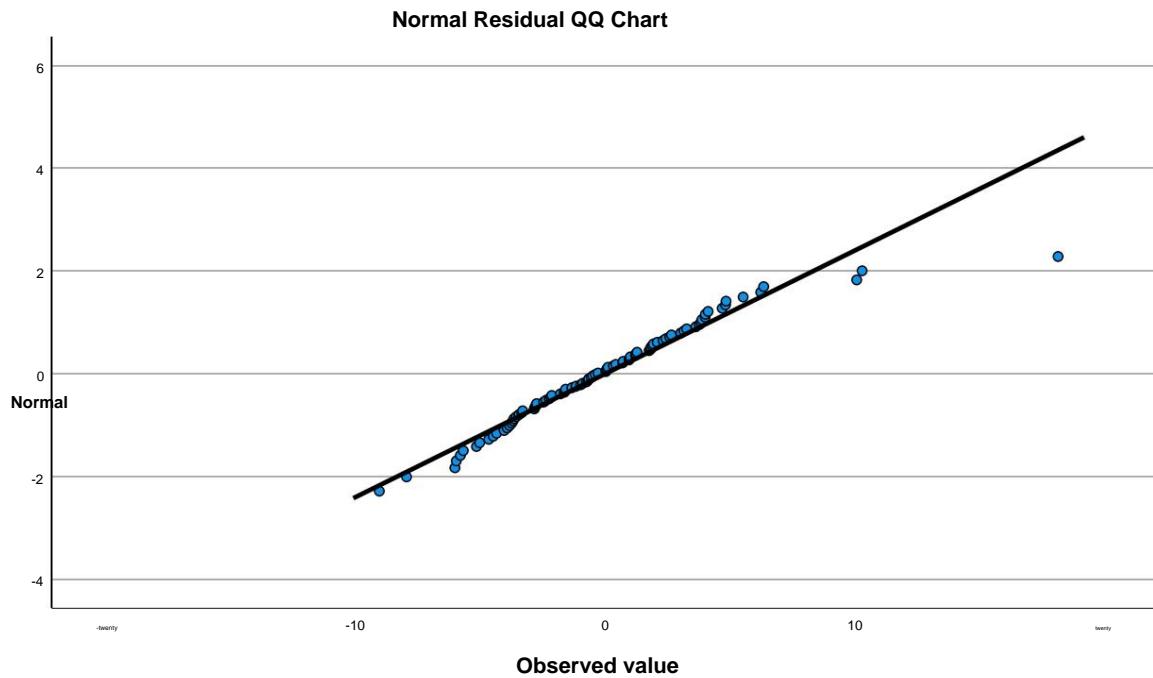
Normality tests

	Kolmogorov-Smirnova gl		Shapiro-Wilk		
	Statistical	Sig. ,200*	Statistical	gl	Next.
Waste	.059	88	.946	88	.001

*. This is a lower limit of true significance.

to. Lilliefors significance correction

Waste



Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	ID Random Effects	44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		55		10

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	544.00043805
Information criterion Akaike (AIC)	552.00043805
Hurvich and Tsai criterion (AICC)	552.51991857
Bozdogan Criterion (CAIC)	565.62731504
Bayesian criterion Schwarz (BIC)	561.62731504

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,000	2,123	.152
GROUP	1	38,985	,199	.658
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	38,985	,501	.610
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	38,985	,169	.683

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	41,429	15,797
A (2,1)	16,164	11,720
A (2,2)	19,904	10,923
ID Variance	28,310b	,000

to. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Explore

Case Processing Summary

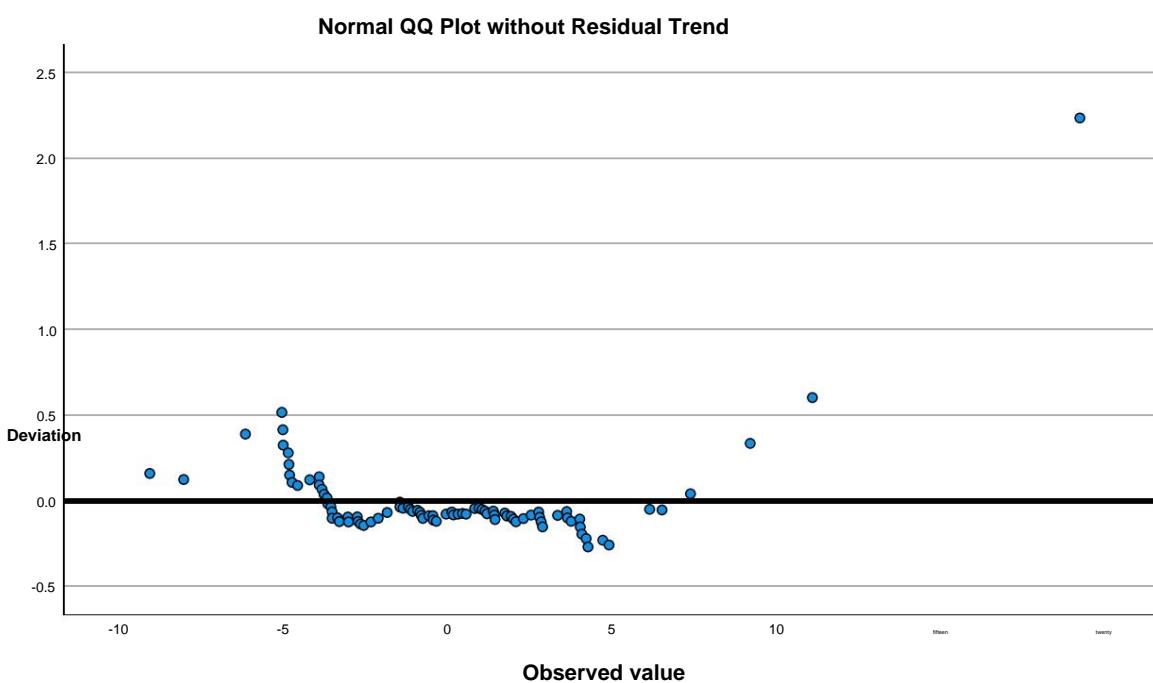
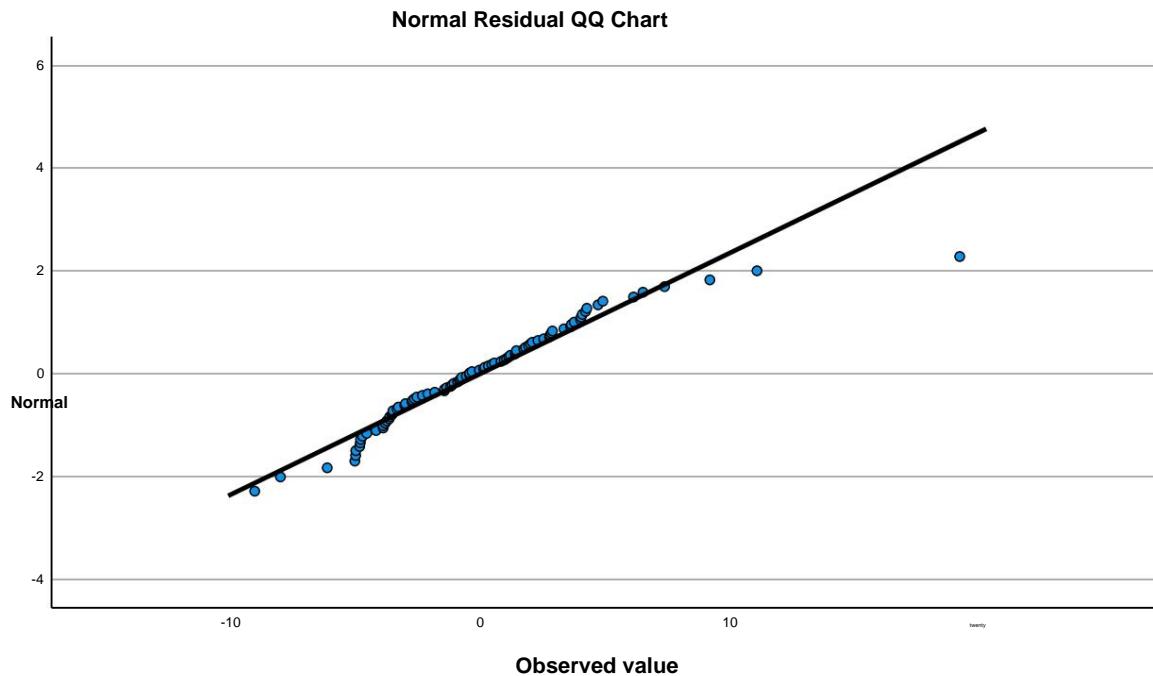
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova gl		Statistical	Sig.	Shapiro-Wilk	
	gl	Next.			gl	Next.
Waste	.085	88	.162	.932	88	<.001

to. Lilliefors significance correction

Waste



Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	ROL_PlayersDeveloper	2		1
	ID Random Effects	44 Identity		1
Repeated effects MAINFACTOR		2	Without structure	3
Total		57		eleven

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	ROL_PlayersDeveloper		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	515.02568596
Information criterion Akaike (AIC)	523.02568596
Hurvich and Tsai criterion (AICC)	523.55200175
Bozdogan Criterion (CAIC)	536.60348258
Bayesian criterion Schwarz (BIC)	532.60348258

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43	2,123	,152
GROUP	1	37,999	.723	,400
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	37,999	3,362	,045
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	37,999	2,794	,103
ROL_PlayervsDeveloper	1	37,999	36,065	<.001

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter		Estimation	Standard error
Repeated Measurements UN (1,1)	31,366	10,927	
A (2,1)	5,432	6,744	
A (2,2)	8,505	5,841	
ID	Variance	16,958b	,000

to. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Explore

Case Processing Summary

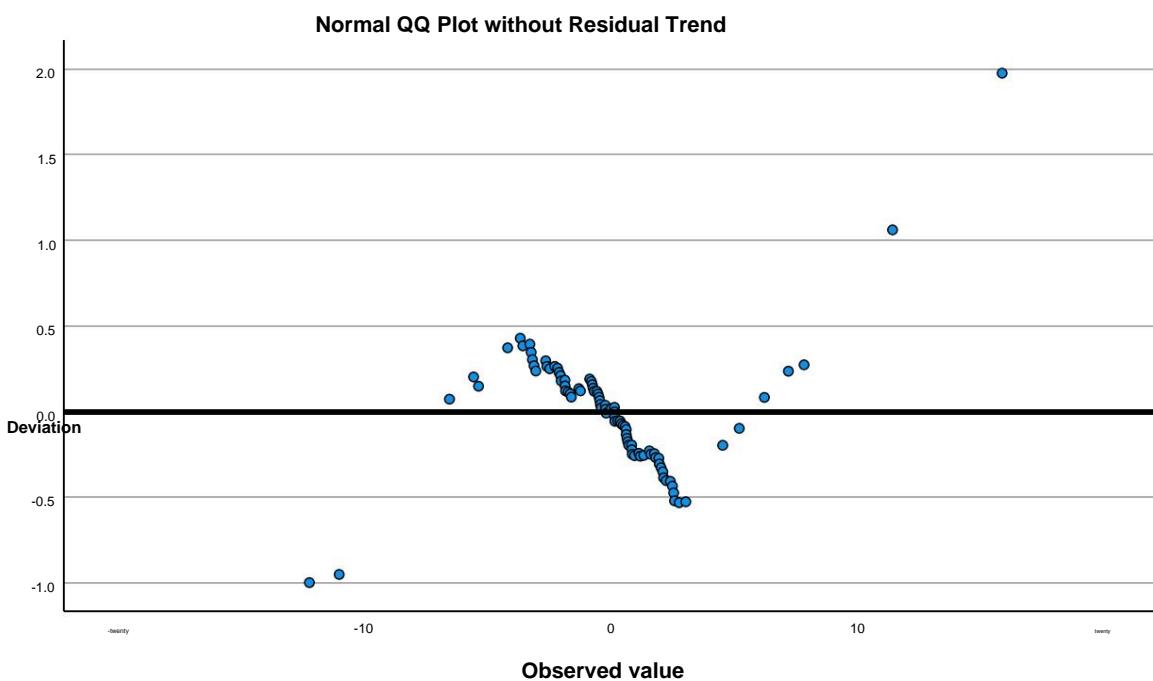
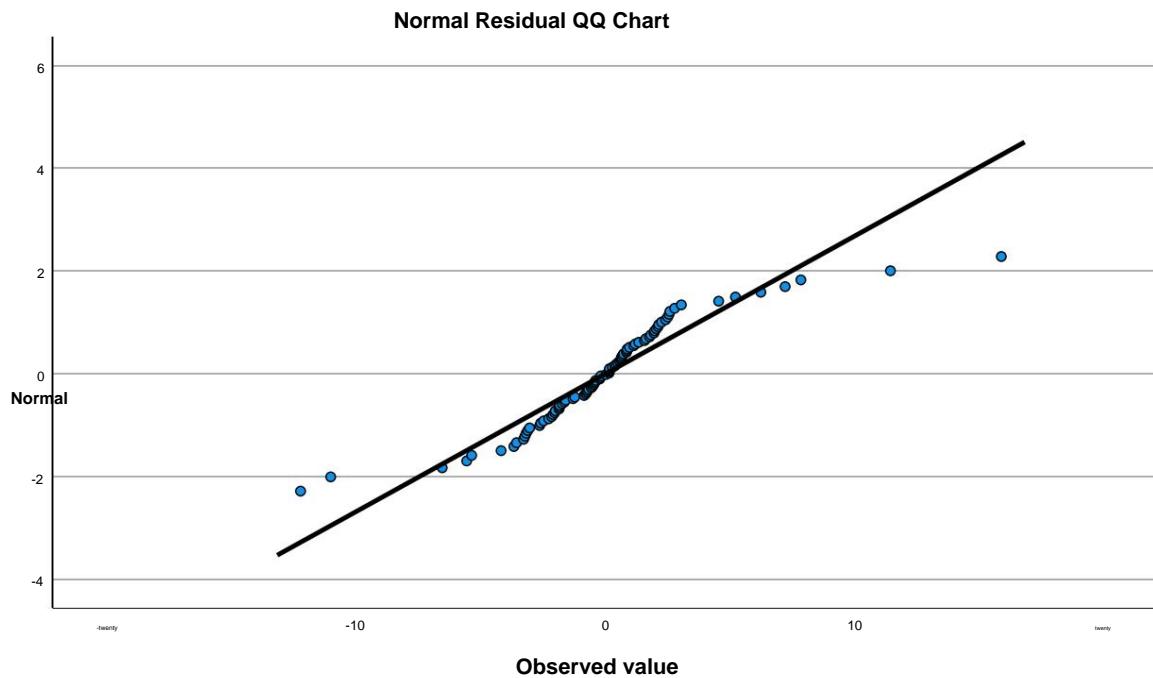
	Cases		Total		
	Valid	N	Lost	N	Percentage
Waste	88	100.0%	0	0.0%	88 100.0%

Normality tests

	Kolmogorov-Smirnova gl		Shapiro-Wilk		
	Statistical	Sig.	Statistical	gl	Next.
Waste	,142	88	<.001	,891	88 <.001

to. Lilliefors significance correction

Waste



Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayersDeveloper	2		1
ID Random Effects	44 Identity			1
Repeated effects MAINFACTOR	2 Without structure			3
Total	52			8

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ROL_PlayersDeveloper		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	531.28589443
Information criterion Akaike (AIC)	539.28589443
Hurvich and Tsai criterion (AICC)	539.79222354
Bozdogan Criterion (CAIC)	553.00916162
Bayesian criterion Schwarz (BIC)	549.00916162

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,003	2,123	.152
GROUP	1	40,998	.277	.602
ROL_PlayervsDeveloper	1	41,005	28,439	<.001

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	40,282	4668442,713
A (2,1)	13,090	4668442,713
A (2,2)	14,904	4668442,713
ID	Variance	12,770 4668442,713

to. Dependent variable: SQRT_LengthComments.

Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayervsDeveloper	2		1
	MAIN FACTOR * GROUP	4		1
	ID Random Effects	44	Identity	1
Repeated effects MAINFACTOR			2 Without structure	3
Total		56		9

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ROL_PlayervsDeveloper		
	MAIN FACTOR * GROUP		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	526.19777747
Information criterion Akaike (AIC)	534.19777747
Hurvich and Tsai criterion (AICC)	534.71059798
Bozdogan Criterion (CAIC)	547.87313990
Bayesian criterion Schwarz (BIC)	543.87313990

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	42,024	1984	.166
GROUP	1	41,266	.018	.893
ROL_PlayervsDeveloper	1	41,031	28,439	<.001
MAIN FACTOR * GROUP	1	42,024	2,329	.134

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	31,131	3352824,828
A (2,1)	4,754	3352824,828
A (2,2)	6,514	3352824,828
ID Variance	21,157	3352824,828

to. Dependent variable: SQRT_LengthComments.

Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayervsDeveloper	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	ID Random Effects	44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		55		10

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ROL_PlayervsDeveloper		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	520.82769739
Information criterion Akaike (AIC)	528.82769739
Hurvich and Tsai criterion (AICC)	529.34717791
Bozdogan Criterion (CAIC)	542.45457438
Bayesian criterion Schwarz (BIC)	538.45457438

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,031	2,123	.152
GROUP	1	39,027	.256	,616
ROL_PlayervsDeveloper	1	39,021	32,113	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	39,033	2,034	.144

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	31,558 4465095,826	
A (2,1)	5,687 4465095,826	
A (2,2)	8,822 4465095,826	
ID	Variance	17,810 4465095,826

to. Dependent variable: SQRT_LengthComments.

Explore

Case Processing Summary

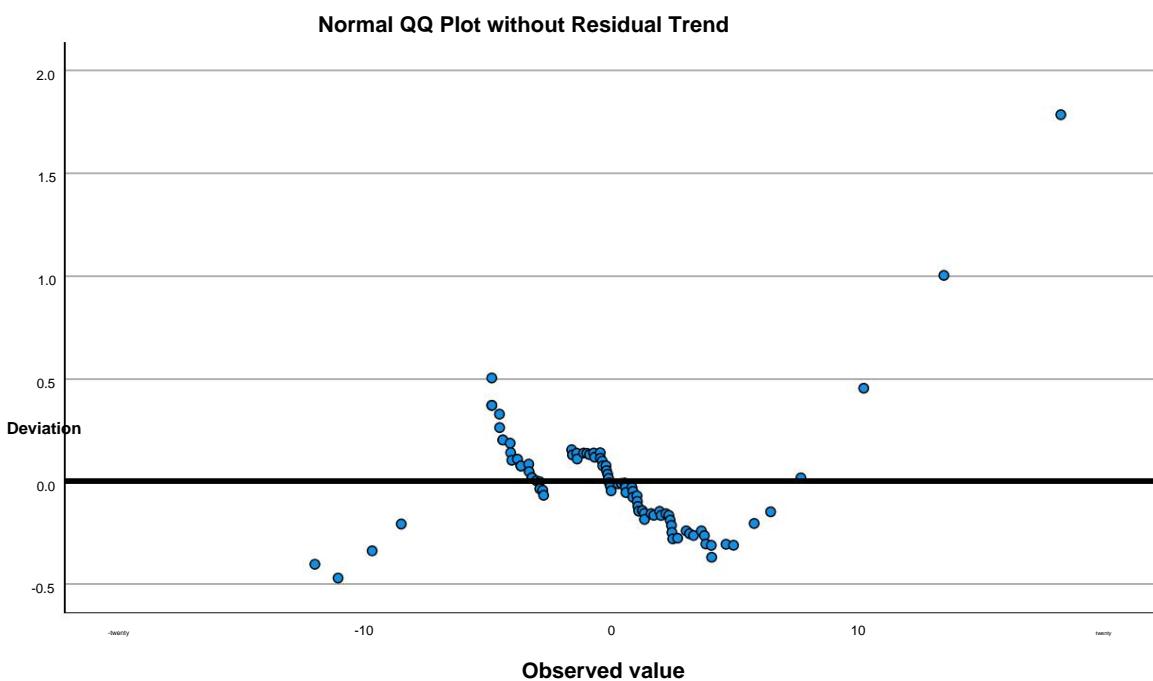
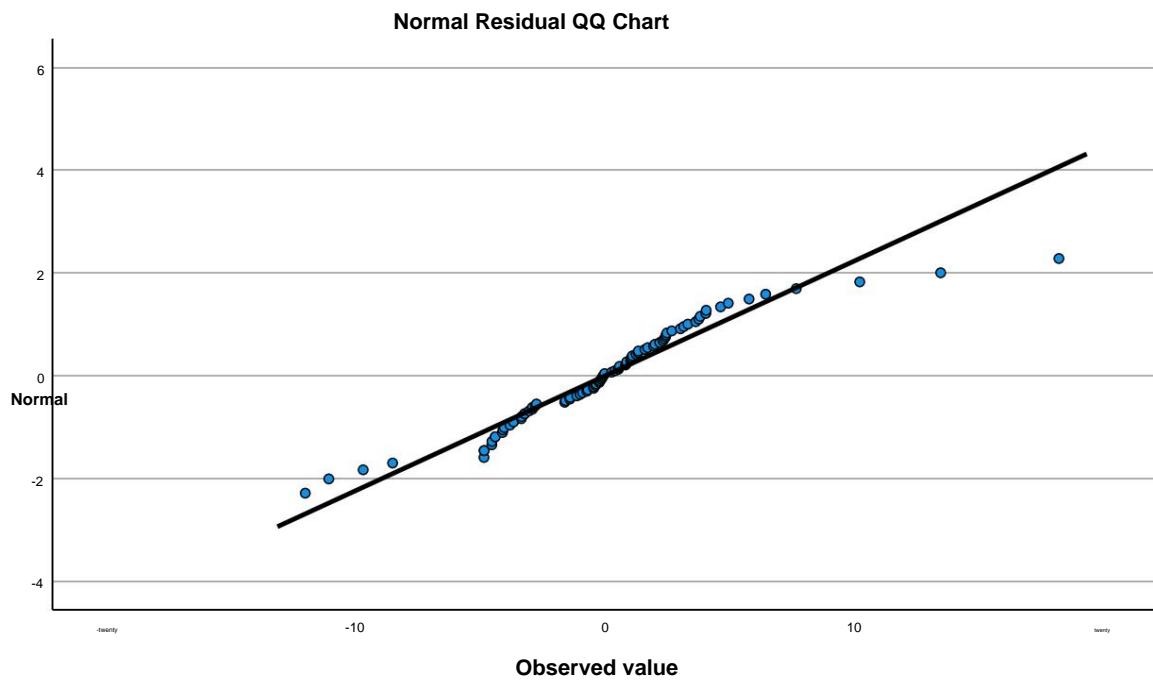
	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

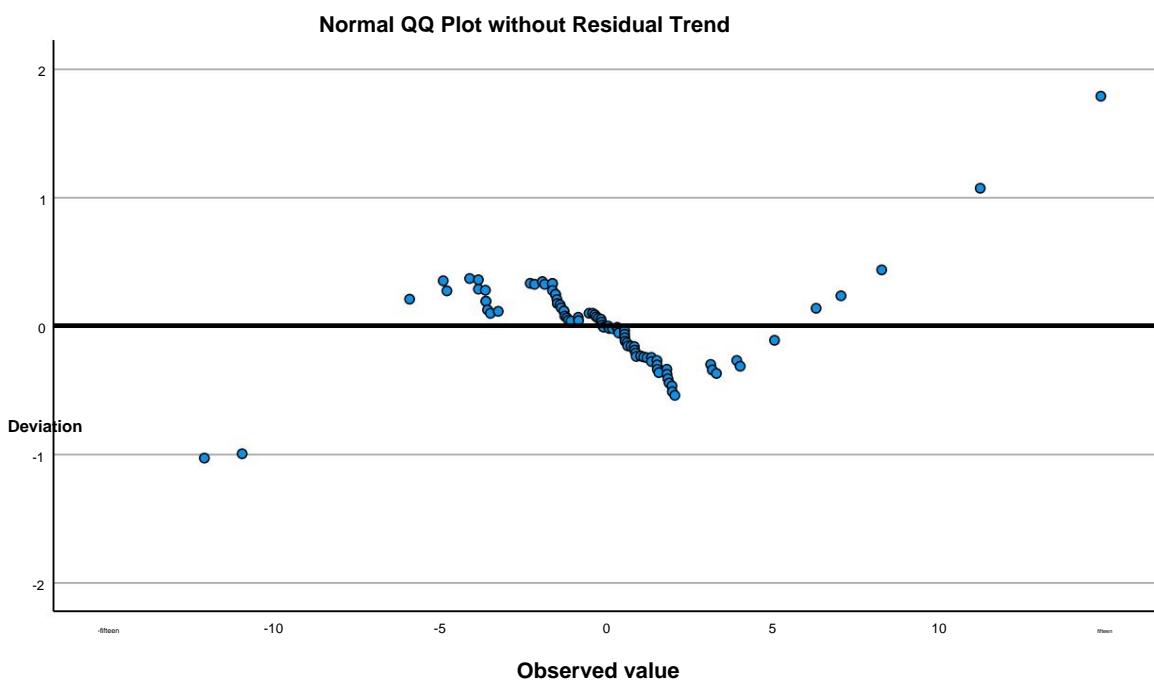
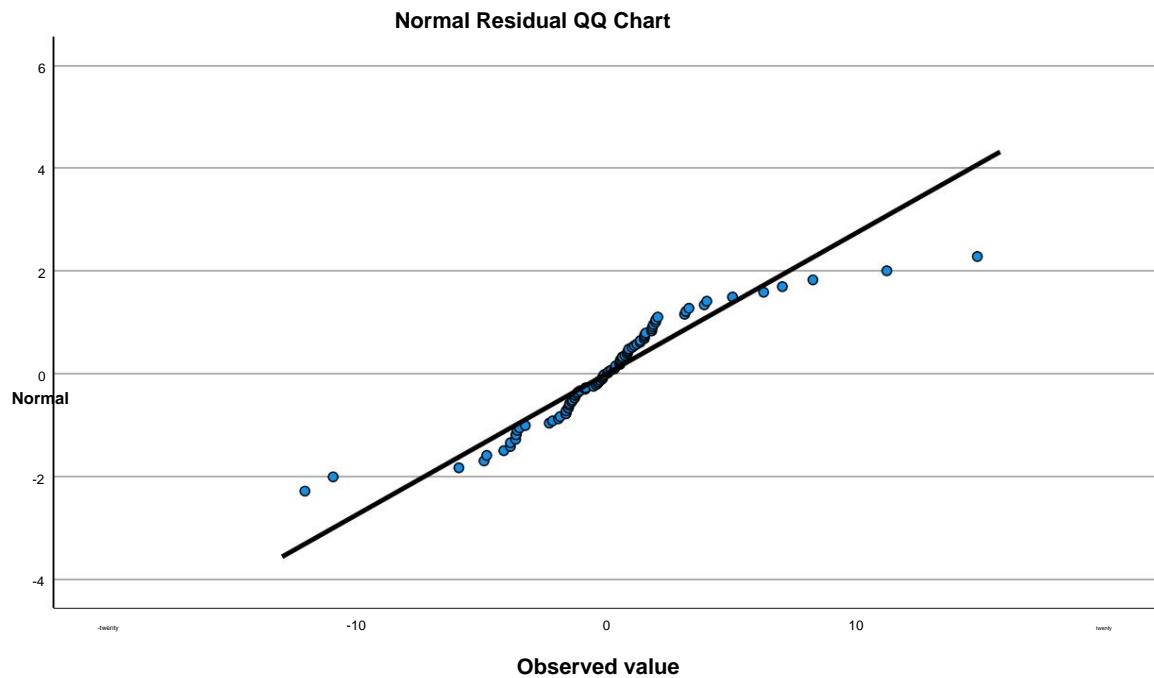
	Kolmogorov-Smirnova gl			Shapiro-Wilk		
	Statistical	Sig.		Statistical	gl	Next.
Waste	.096	88	.043	.932	88	<.001
Waste	.162	88	<.001	.895	88	<.001
Waste	.137	88	<.001	.890	88	<.001

to. Lilliefors significance correction

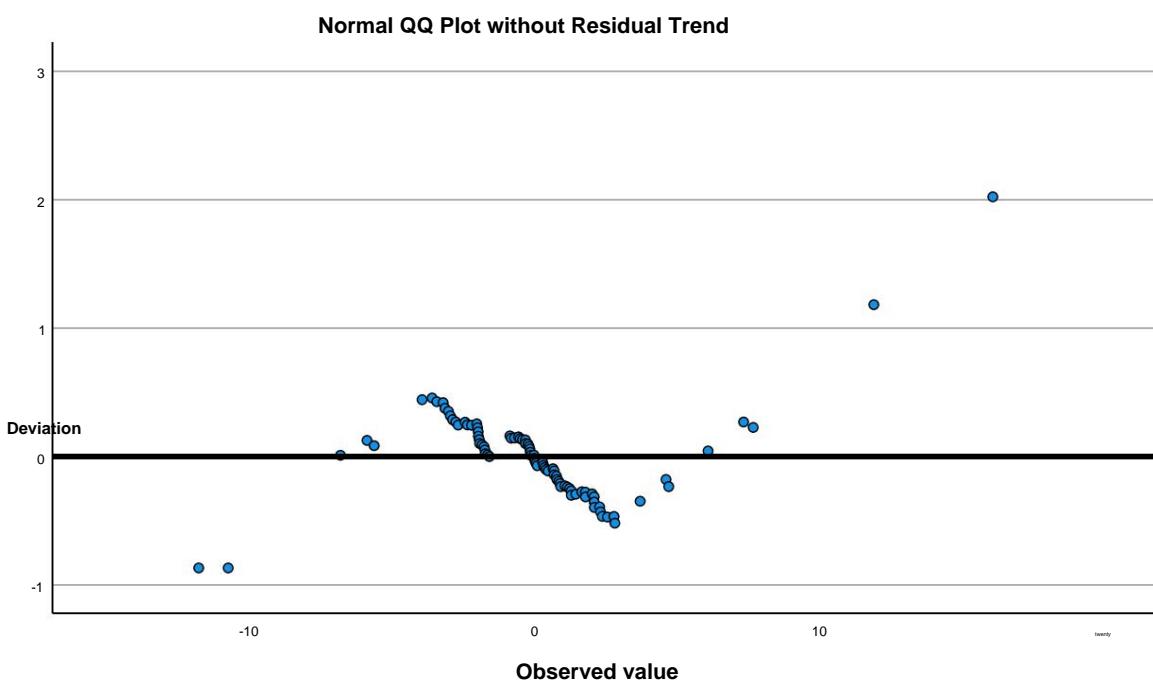
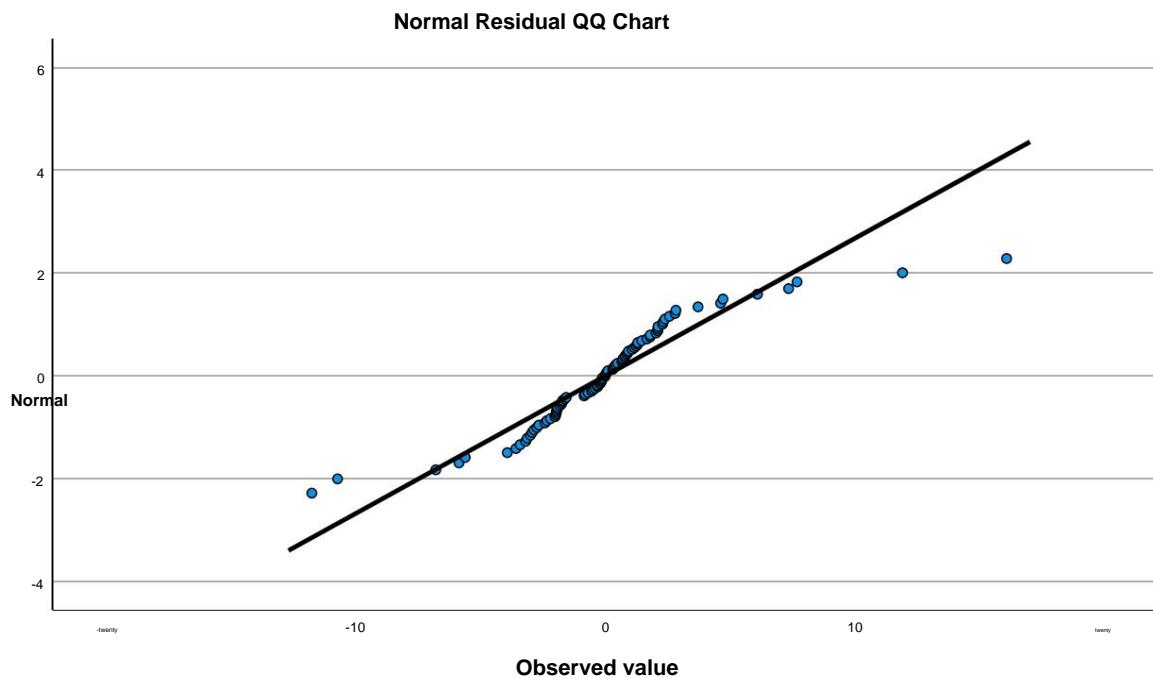
Waste



Waste



Waste



Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayersDeveloper	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	MAIN FACTOR * GROUP	4		1
	ID Random Effects	44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		59		eleven

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ROL_PlayersDeveloper		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	MAIN FACTOR * GROUP		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	515.73958042
Information criterion Akaike (AIC)	523.73958042
Hurvich and Tsai criterion (AICC)	524.26589621
Bozdogan Criterion (CAIC)	537.31737704
Bayesian criterion Schwarz (BIC)	533.31737704

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	41,983	1984	.166
GROUP	1	39,429	.009	.925
ROL_PlayervsDeveloper	1	39,010	32,113	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	39,001	2,034	.144
MAIN FACTOR * GROUP	1	42,010	2,329	.134

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	29,090	4457548,095
A (2,1)	3,994	4457548,095
A (2,2)	7,035	4457548,095
ID	Variance	19,587 4457548,095

to. Dependent variable: SQRT_LengthComments.

Explore

Case Processing Summary

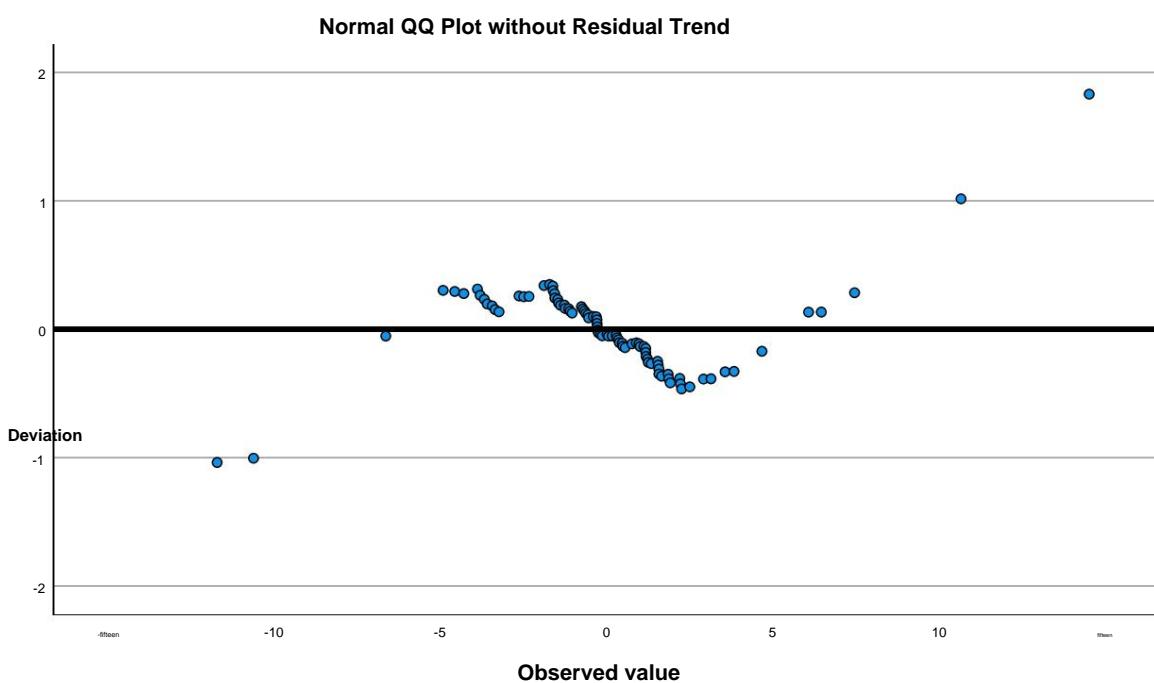
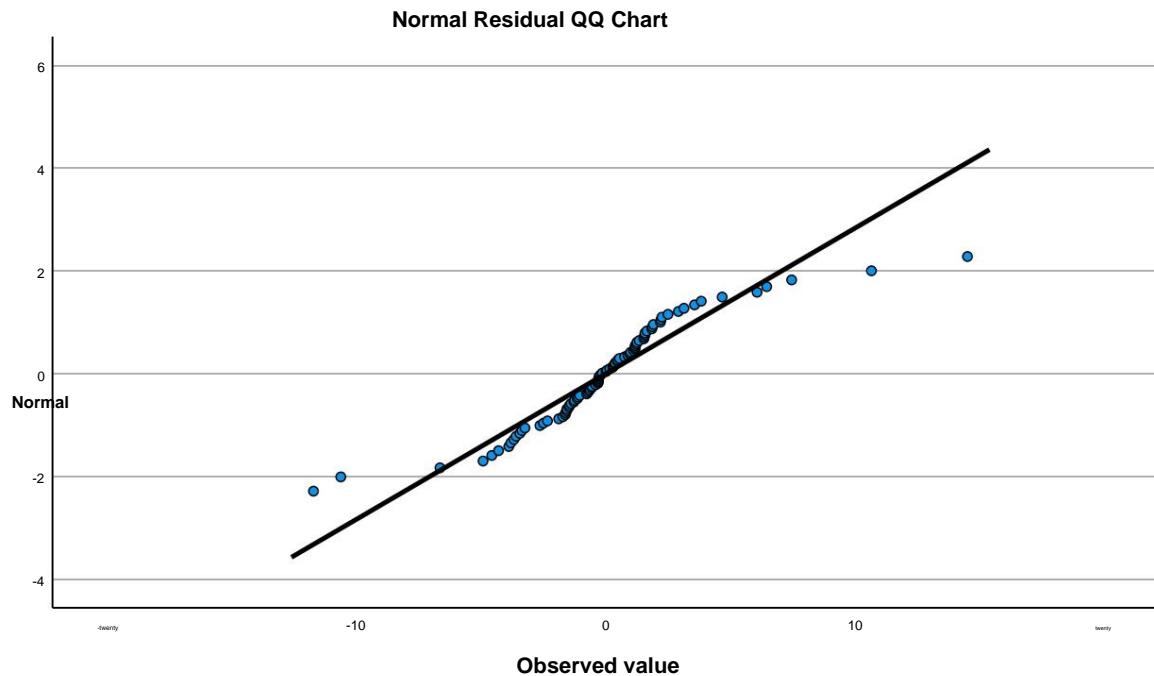
	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova gl			Shapiro-Wilk		
	Statistical	Sig.	gl	Statistical	gl	Next.
Waste	.136	88	<.001	,900	88	<.001

to. Lilliefors significance correction

Waste



Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	ROL_PlayersDeveloper	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	MAIN FACTOR * GROUP	4		1
	MAIN FACTOR * ROL_PlayersDeveloper	4		1
	ID Random Effects	44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		63		12

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	ROL_PlayersDeveloper		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	MAIN FACTOR * GROUP		
	MAIN FACTOR * ROL_PlayersDeveloper		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	512.50944099
Information criterion Akaike (AIC)	520.50944099
Hurvich and Tsai criterion (AICC)	521.04277432
Bozdogan Criterion (CAIC)	534.03754753
Bayesian criterion Schwarz (BIC)	530.03754753

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	40,986	1,073	.306
GROUP	1	39,240	.008	.928
ROL_PlayersDeveloper	1	39,326	25,904	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	39,007	2,034	.144
MAIN FACTOR * GROUP	1	40,998	2,245	.142
MAIN FACTOR * ROL_PlayersDeveloper	1	40,986	,209	,650

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	27,402	4237852,977
A (2,1)	1,825	4237852,977
A (2,2)	4,925	4237852,977
ID	Variance	21,703

to. Dependent variable: SQRT_LengthComments.

Explore

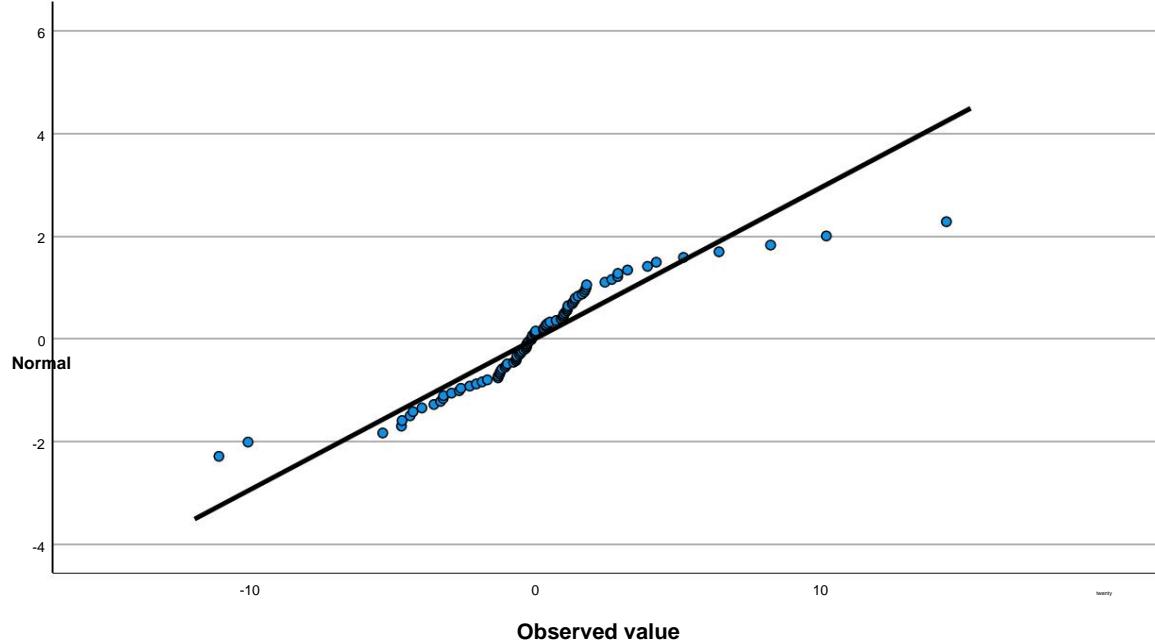
Case Processing Summary

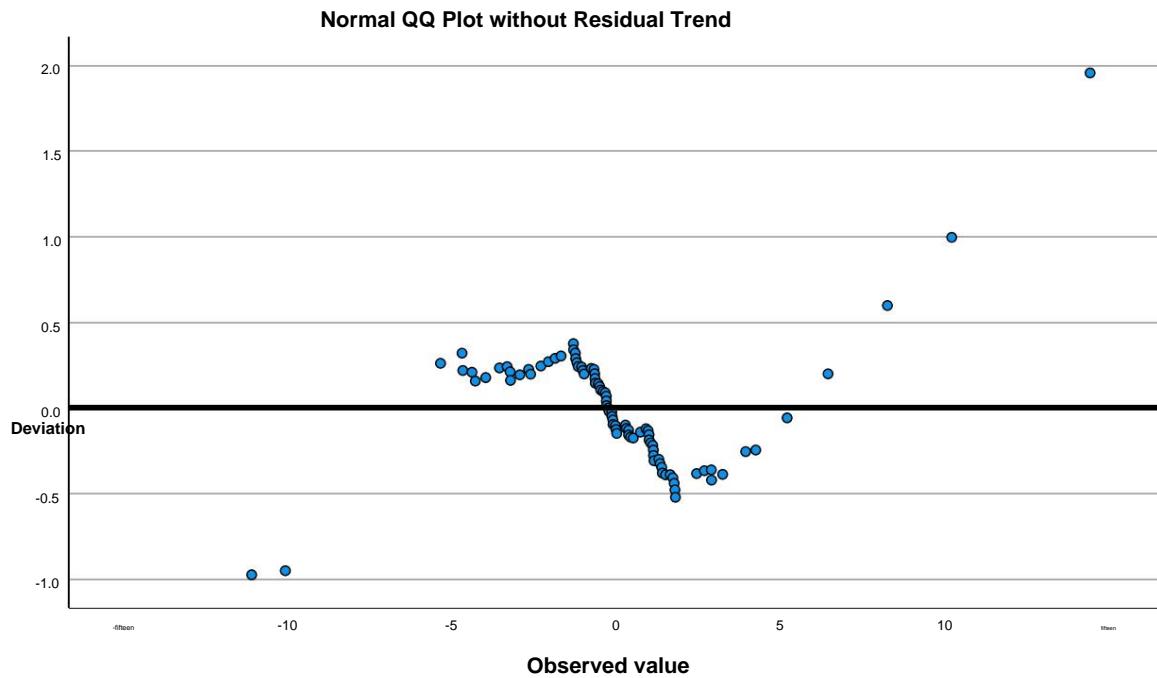
			Cases			
	Valid N	Percentage	Lost N	Percentage	Total N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova			Shapiro-Wilk		
	Statistical	gl	Sig.	Statistical	gl	Next.
Waste	,161	88	<.001	.888	88	<.001

to. Lilliefors significance correction

Waste**Normal Residual QQ Chart**



Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ROL_PlayersDeveloper	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	MAIN FACTOR * GROUP	4		2
	ID Random Effects	44 Identity		1
Repeated effects MAINFACTOR		2	Without structure	3
Total		57		eleven

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	ROL_PlayersDeveloper		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	MAIN FACTOR * GROUP		
	ID Random Effects		
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	515.73958042
Information criterion	523.73958042
Akaike (AIC)	
Hurvich and Tsai criterion (AICC)	524.26589621
Bozdogan Criterion (CAIC)	537.31737704
Bayesian criterion Schwarz (BIC)	533.31737704

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	42,010	1984	.166
ROL_PlayersDeveloper	1	38,998	32,113	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	38,989	2,034	.144
MAIN FACTOR * GROUP	2	40,511	1,293	.286

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	30,524	4356031,256
A (2,1)	5,428	4356031,256
A (2,2)	8,469	4356031,256
ID	Variance	18,152
		4356031,256

to. Dependent variable: SQRT_LengthComments.

Explore

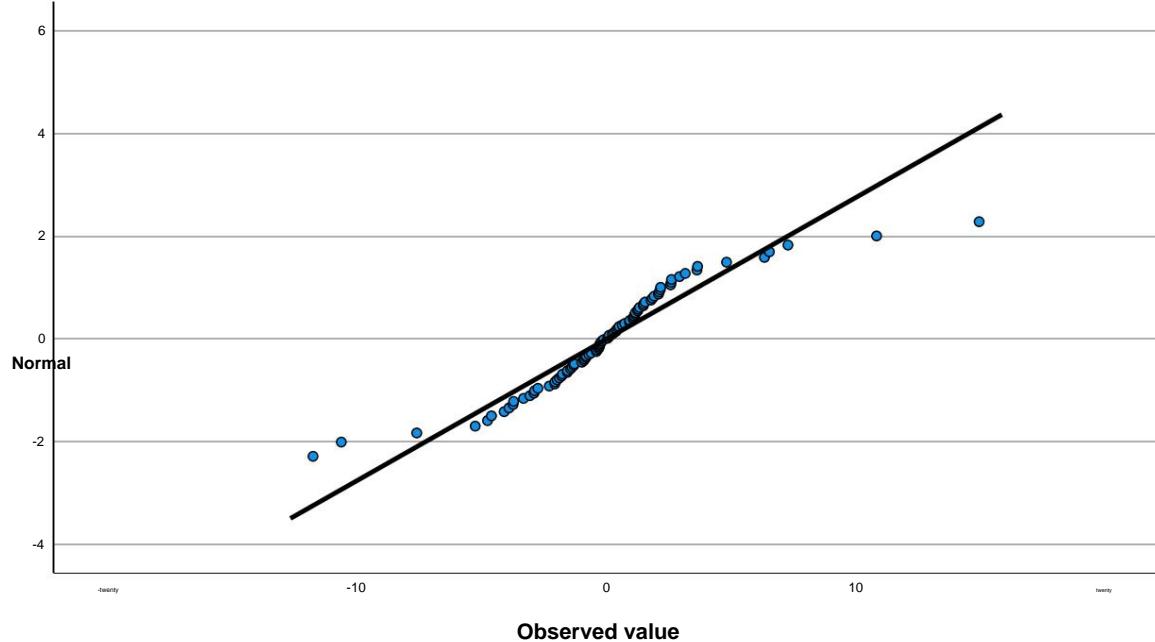
Case Processing Summary

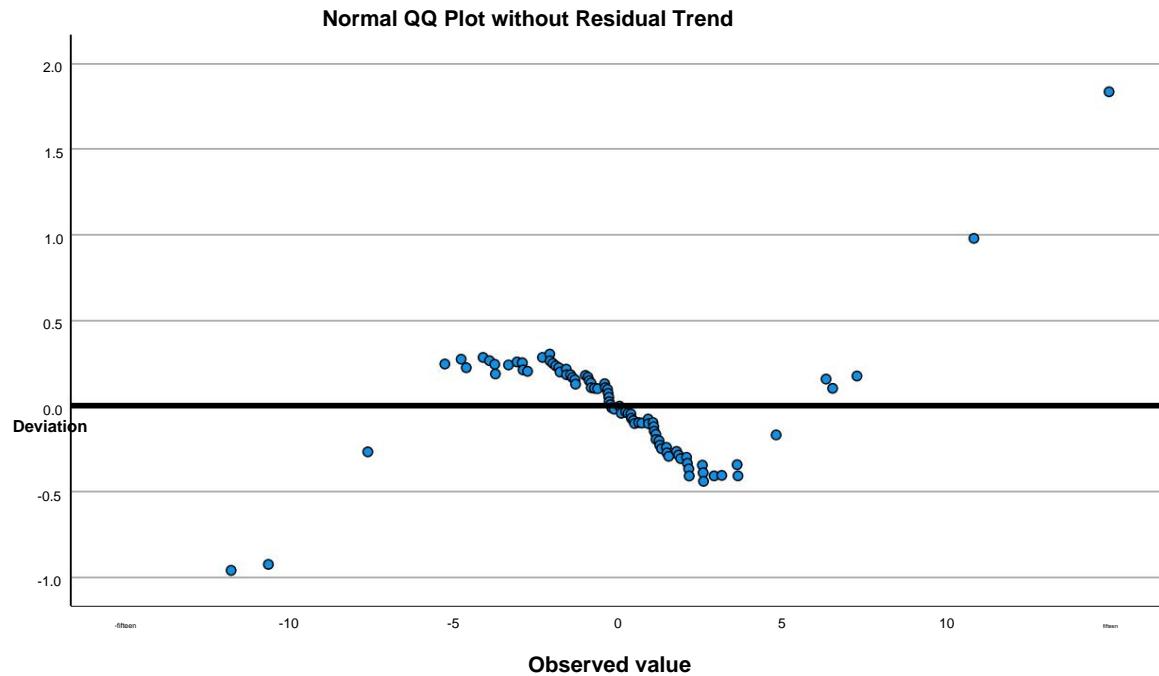
			Cases			
	Valid N	Percentage	Lost N	Percentage	Total N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova			Shapiro-Wilk		
	Statistical	gl	Sig.	Statistical	gl	Next.
Waste	.127	88	.001	.908	88	<.001

to. Lilliefors significance correction

Waste**Normal Residual QQ Chart**



Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Covariance structure	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ROL_PlayersDeveloper	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	ID Random Effects	44	Identity	1
Repeated effects	MAINFACTOR	2	Without structure	3
Total		53		9

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	ROL_PlayersDeveloper		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	523.81125677
Information criterion	531.81125677
Akaike (AIC)	
Hurvich and Tsai criterion (AICC)	532.32407728
Bozdogan Criterion (CAIC)	545.48661920
Bayesian criterion Schwarz (BIC)	541.48661920

The information criteria are displayed in the the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects**Type IIIa Fixed Effects Tests**

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,000	2,123	.152
ROL_PlayersDeveloper	1	40,004	32,724	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	40,004	2,084	.138

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	29,973	10,698
A (2,1)	4,536	6,667
A (2,2)	8,105	5,867
ID	Variance	18,131b
		,000

a. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Explore

Case Processing Summary

	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

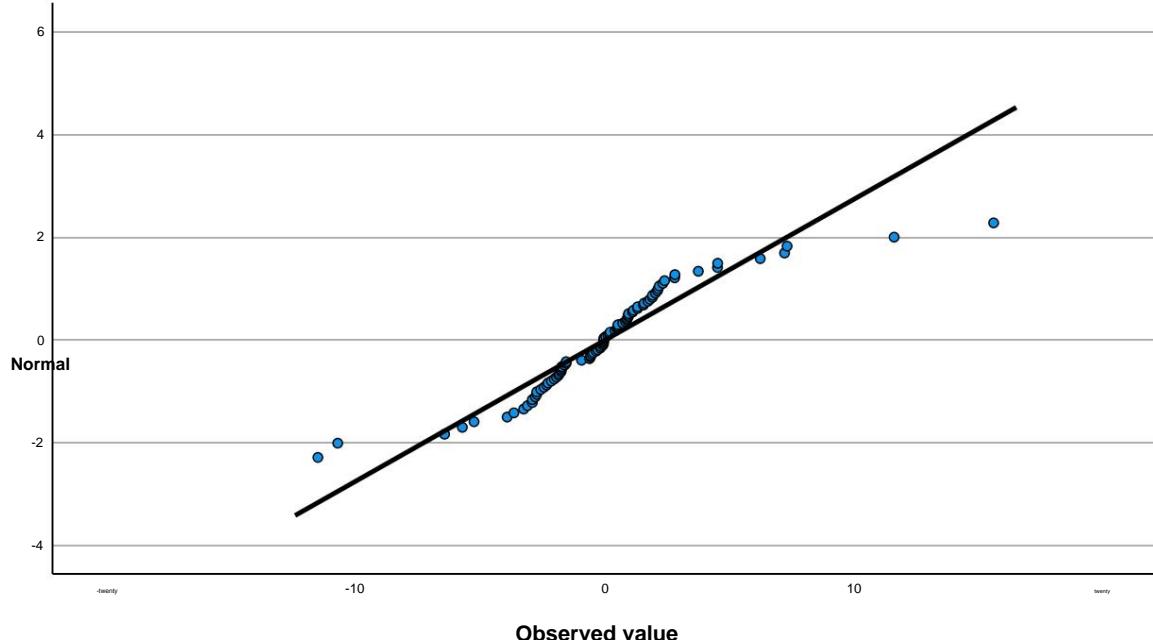
Normality tests

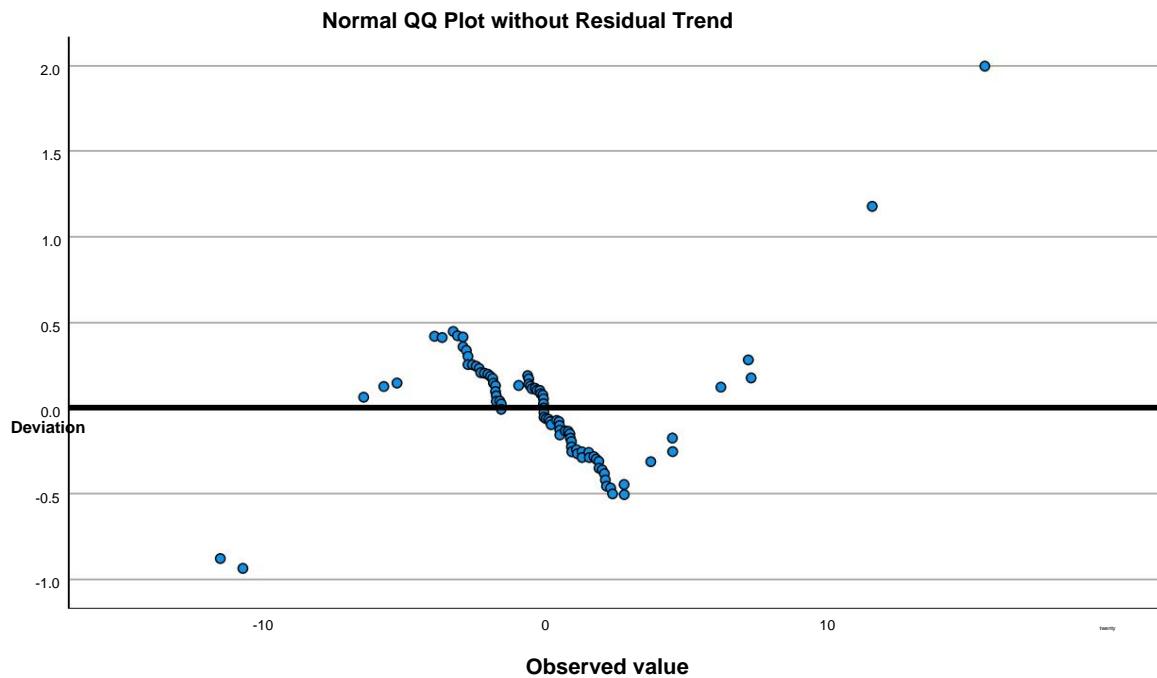
	Kolmogorov-Smirnova gl			Shapiro-Wilk		
	Statistical	Sig.	gl	Statistical	gl	Next.
Waste	.142	88	<.001	.889	88	<.001

a. Lilliefors significance correction

Waste

Normal Residual QQ Chart





Mixed model analysis

Warnings

The final Hessian matrix is not positively defined even though all convergence criteria have been met. The MIXED procedure continues, despite this warning. The validity of subsequent results cannot be assured.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	ROL_PlayersDeveloper	2		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
ID Random Effects			44 Identity	1
Repeated effects MAINFACTOR			2 Without structure	3
Total			51	8

Model dimension

		Subject variables	Number of subjects
Fixed effects	ROL_PlayersDeveloper ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	527.34142558
Information criterion Akaike (AIC)	535.34142558
Hurvich and Tsai criterion (AICC)	535.84775469
Bozdogan Criterion (CAIC)	549.06469277
Bayesian criterion Schwarz (BIC)	545.06469277

The information criteria are displayed in the the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects**Type IIIa Fixed Effects Tests**

Origin	gl of numerator	denominator df	F	Next.
ROL_PlayersDeveloper	1	39,918	32,733	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	39,918	2,085	.138

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	30,643	10,870
A (2,1)	4,560	6,713
A (2,2)	8,223	5,877
ID	Variance	18,017b
		,000

a. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Explore

Case Processing Summary

	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

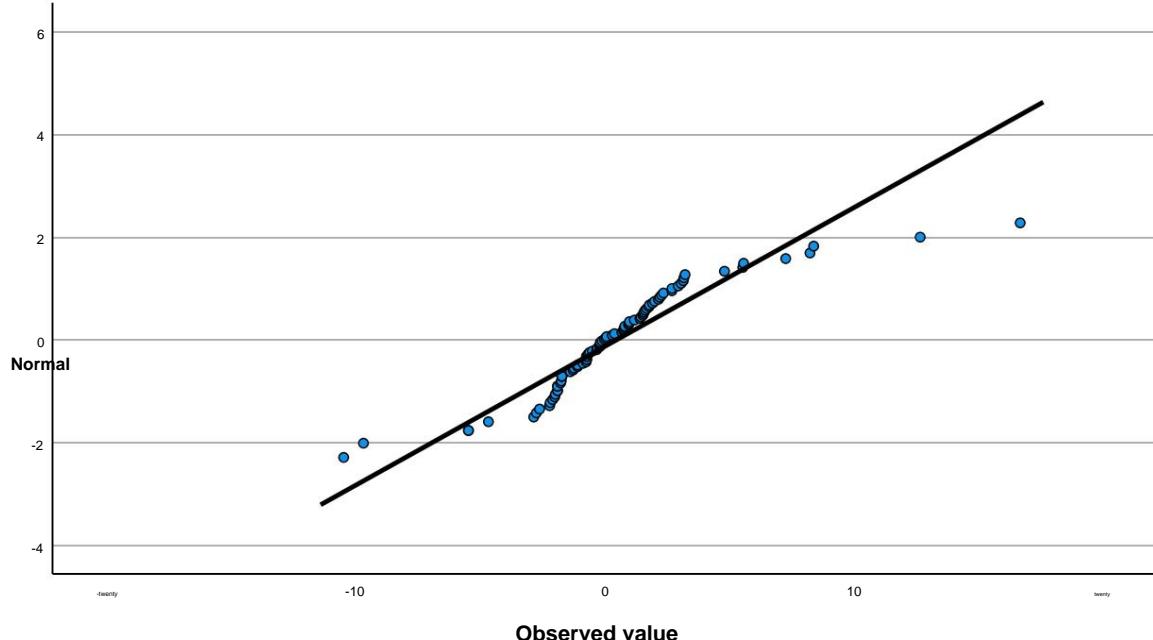
Normality tests

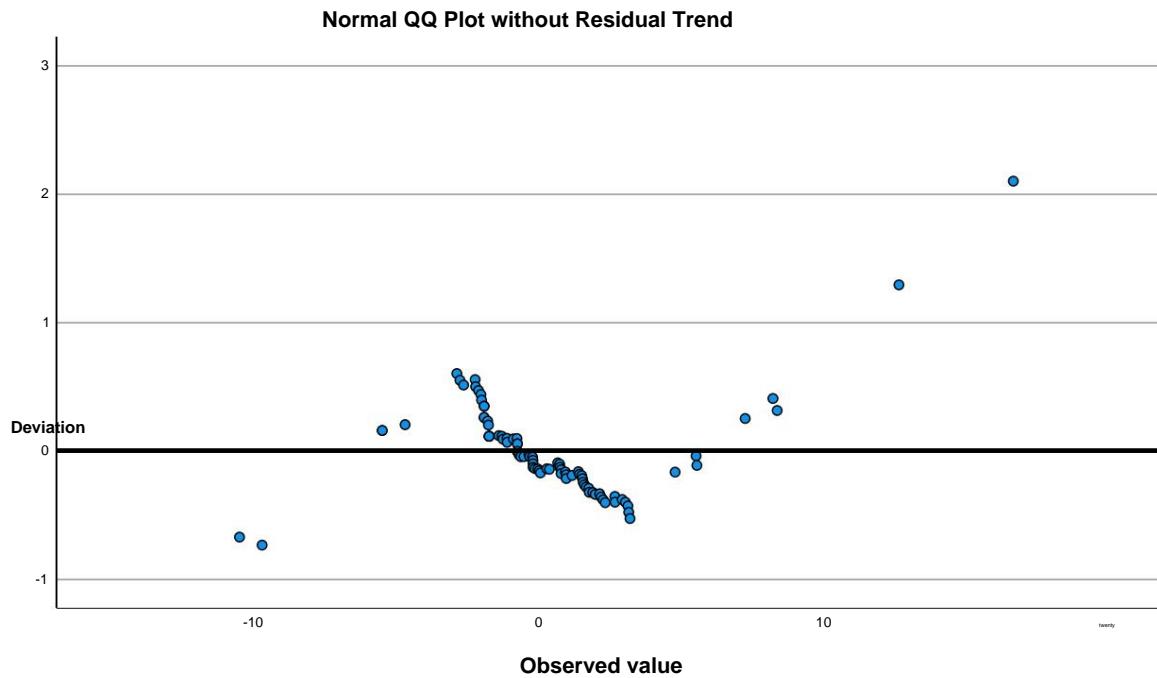
	Kolmogorov-Smirnova gl			Shapiro-Wilk		
	Statistical	Sig.		Statistical	gl	Next.
Waste	.145	88	<.001	.875	88	<.001

a. Lilliefors significance correction

Waste

Normal Residual QQ Chart





Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Covariance structure	Number of parameters
Fixed effects	MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66	6		6
	MAIN FACTOR	2		0
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66	3		0
	GROUP	2		1
	MAIN FACTOR * GROUP	4		1
	ID Random Effects	44 Identity		1
Repeated effects MAINFACTOR		2	Without structure	3
Total		63		12

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR *		
	ByPLAYPROFILEBYSUMPL		
	AYPROFILEBYSUM1lt332gt		
	33lt653gt66		
	MAIN FACTOR		
	ByPLAYPROFILEBYSUMPL		
	AYPROFILEBYSUM1lt332gt		
	33lt653gt66		
	GROUP		
	MAIN FACTOR *		
	GROUP		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	533.44160406
Information criterion	541.44160406
Akaike (AIC)	
Hurvich and Tsai criterion (AICC)	541.97493739
Bozdogan Criterion (CAIC)	554.96971060
Bayesian criterion Schwarz (BIC)	550.96971060

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR *	2	40	1,351	,271
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt33gt 33lt653gt66				
MAIN FACTOR	1	40	1,081	,305
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt33gt 33lt653gt66	2	40	,579	,565
GROUP	1	40	,000	,989
MAIN FACTOR * GROUP	1	40	1,587	,215

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter		Estimation	Standard error
Repeated Measurements UN (1,1)	38,986	15,141	
A (2,1)	14,890	11,289	
A (2,2)	18,468	10,553	
ID	Variance	28,727b	,000

to. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Explore

Case Processing Summary

	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

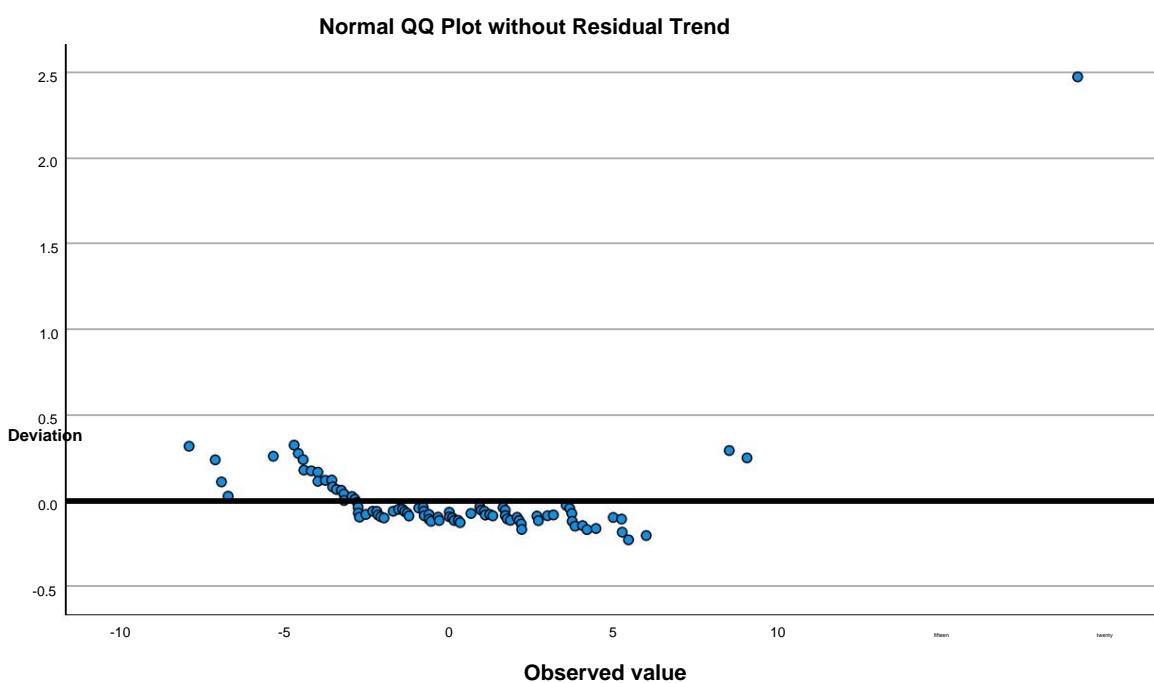
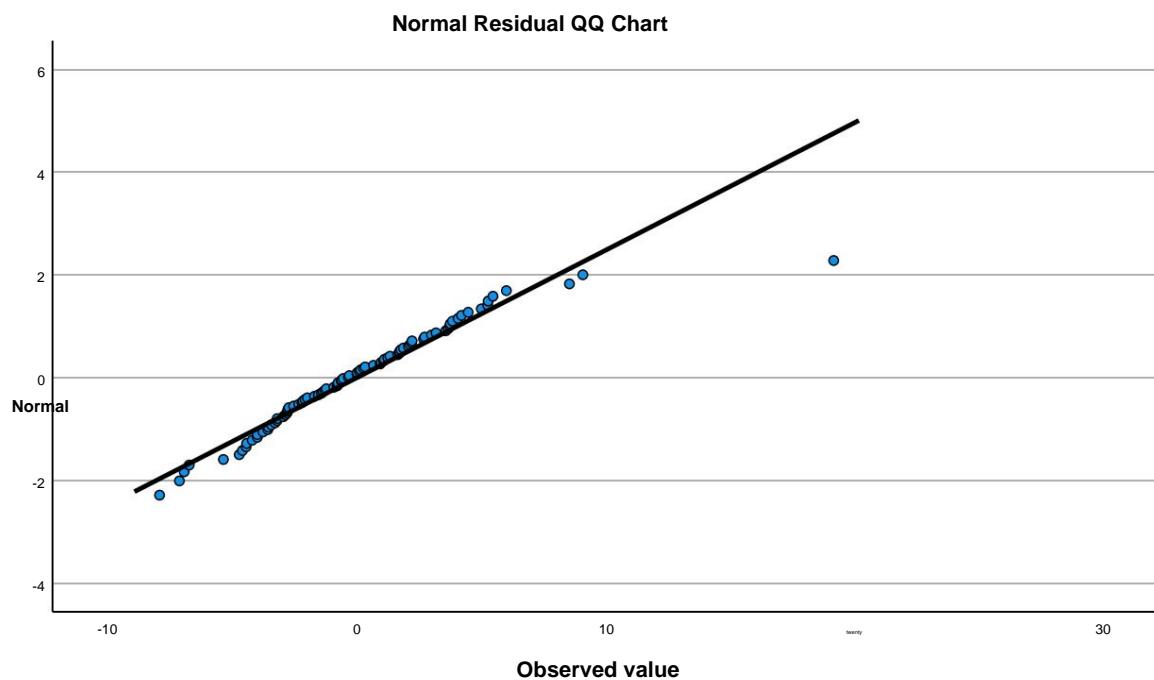
Normality tests

	Kolmogorov-Smirnova gl		Shapiro-Wilk		
	Statistical	Sig. ,200*	Statistical	gl	Next.
Waste	.064	88	.928	88	<.001

*. This is a lower limit of true significance.

to. Lilliefors significance correction

Waste



Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	MAIN FACTOR * GROUP	4		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66	3		2
	ROL_PlayervsDeveloper	2		1
	ID Random Effects	44 Identity		1
Repeated effects MAINFACTOR		2	Without structure	3
Total		59		eleven

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	MAIN FACTOR * GROUP		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66		
	ROL_PlayervsDeveloper		
	ID Random Effects		
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	515.73958042
Information criterion Akaike (AIC)	523.73958042
Hurvich and Tsai criterion (AICC)	524.26589621
Bozdogan Criterion (CAIC)	537.31737704
Bayesian criterion Schwarz (BIC)	533.31737704

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	41,970	1984	.166
GROUP	1	39,426	.009	.925
MAIN FACTOR * GROUP	1	41,997	2,329	.134
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt32gt 33lt653gt66	2	39,007	2,034	.144
ROL_PlayervsDeveloper	1	38,992	32,113	<.001

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	33,118	3829812,801
A (2,1)	8,022	3829812,801
A (2,2)	11,063	3829812,801
ID	Variance	15,559
		3829812,801

to. Dependent variable: SQRT_LengthComments.

Explore

Case Processing Summary

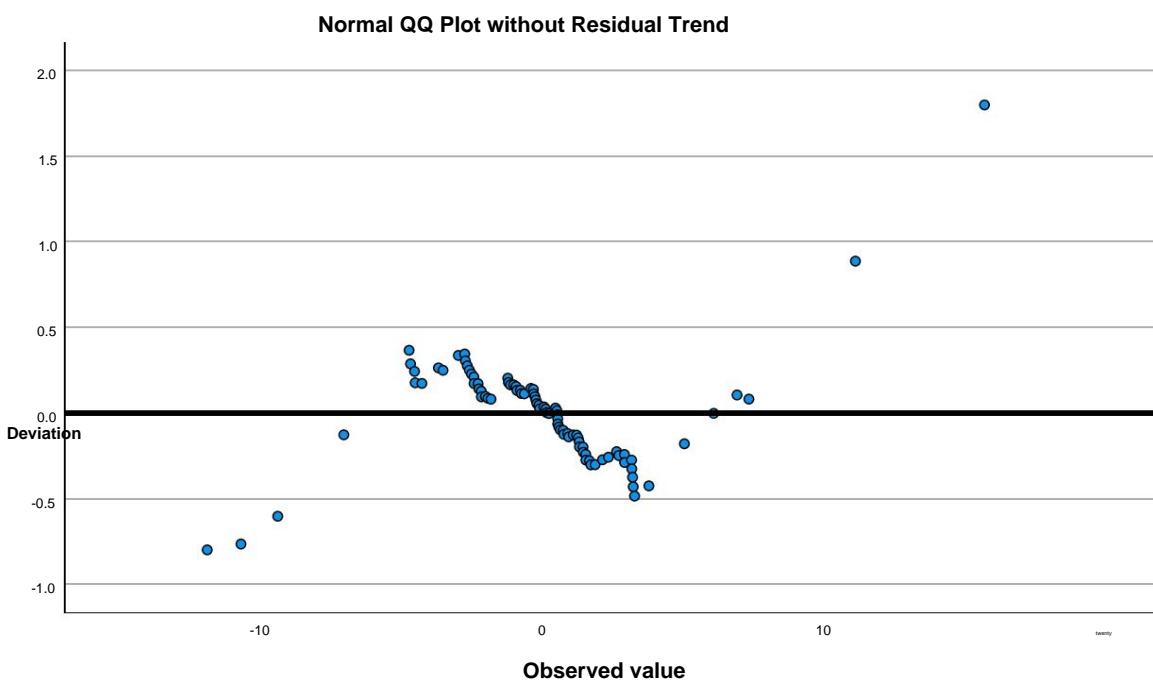
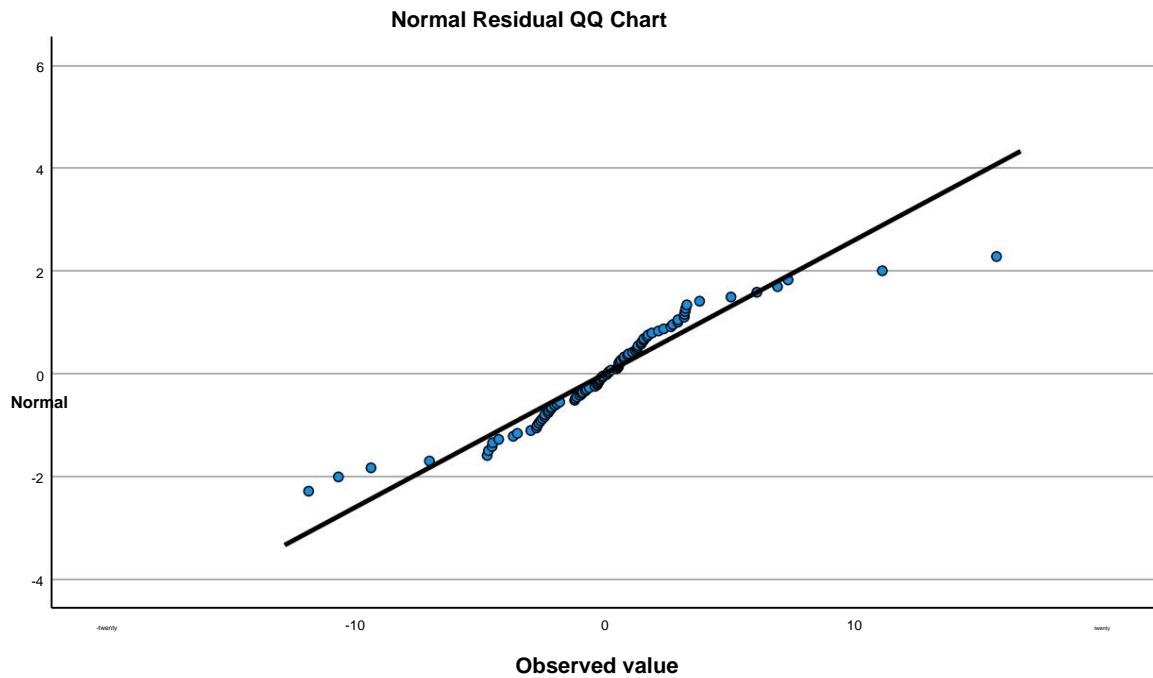
	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova gl			Shapiro-Wilk		
	Statistical	Sig.	gl	Statistical	gl	Next.
Waste	,116	88	.005	.918	88	<.001

to. Lilliefors significance correction

Waste



Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	GROUP	2		1
	MAIN FACTOR * GROUP	4		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	ROL_PlayersDeveloper	2		1
	MAIN FACTOR * ROL_PlayersDeveloper	4		1
	ID Random Effects	44 Identity		1
	Repeated effects MAINFACTOR	2 Without structure		3
Total		63		12

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	GROUP		
	MAIN FACTOR * GROUP		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	ROL_PlayersDeveloper		
	MAIN FACTOR * ROL_PlayersDeveloper		
	ID Random Effects		
	Repeated effects MAINFACTOR	ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	512.50944099
Information criterion Akaike (AIC)	520.50944099
Hurvich and Tsai criterion (AICC)	521.04277432
Bozdogan Criterion (CAIC)	534.03754753
Bayesian criterion Schwarz (BIC)	530.03754753

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	41,000	1,073	,306
GROUP	1	39,237	.008	,928
MAIN FACTOR * GROUP	1	41,000	2,245	,142
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	39,000	2,034	,144
ROL_PlayervsDeveloper	1	39,319	25,904	<.001
MAIN FACTOR * ROL_PlayervsDeveloper	1	41,000	,209	,650

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	32,763	11,092
A (2,1)	7,186	6,916
A (2,2)	10,286	6,031
ID	Variance	16,342b
		,000

to. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Explore

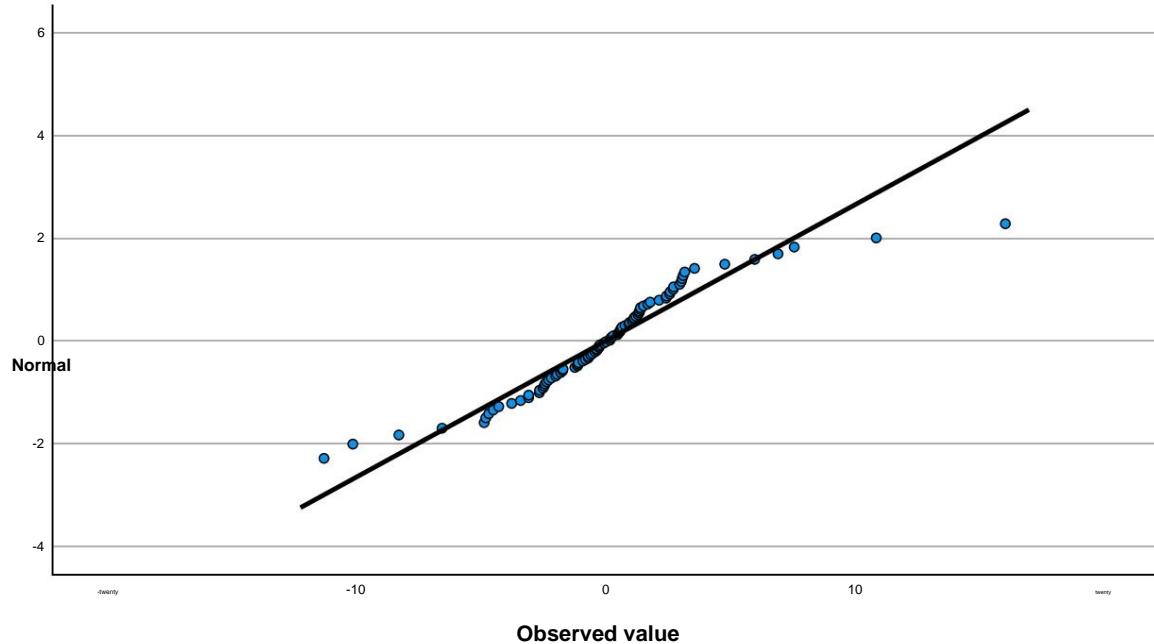
Case Processing Summary

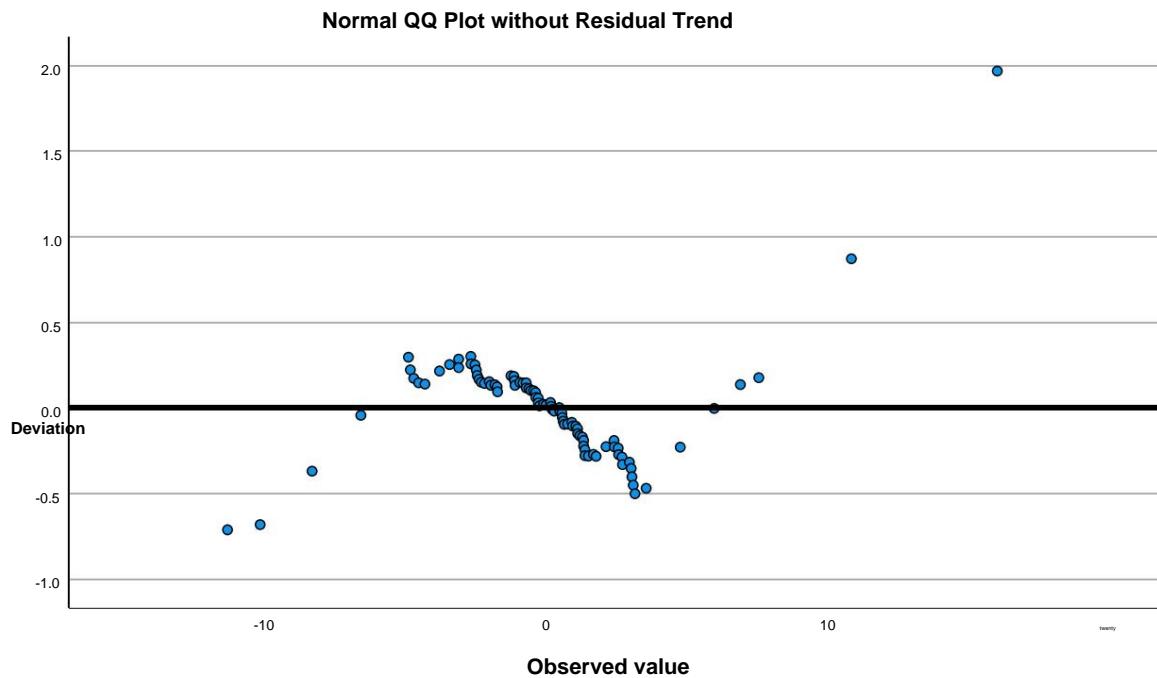
	Cases				Total	
	Valid		Lost		N	Percentage
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova			Shapiro-Wilk		
	Statistical	gl	Sig.	Statistical	gl	Next.
Waste	.121	88	.003	.918	88	<.001

to. Lilliefors significance correction

Waste**Normal Residual QQ Chart**



Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	MAIN FACTOR * GROUP	4		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	ROL_PlayersDeveloper	2		1
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2	Without structure	3
Total		57		eleven

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	MAIN FACTOR * GROUP		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	ROL_PlayersDeveloper		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteraa

Restricted log-likelihood -2	515.73958042
Information criterion	523.73958042
Akaike (AIC)	
Hurvich and Tsai criterion (AICC)	524.26589621
Bozdogan Criterion (CAIC)	537.31737704
Bayesian criterion	533.31737704
Schwarz (BIC)	

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	42,004	1984	.166
MAIN FACTOR * GROUP	2	40,506	1,293	.286
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66	2	38,992	2,034	.144
ROL_PlayervsDeveloper	1	38,998	32,113	<.001

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	30,935	2876401,457
A (2,1)	5,839	2876401,456
A (2,2)	8,880	2876401,456
ID	Variance	17,742
		2876401,456

to. Dependent variable: SQRT_LengthComments.

Explore

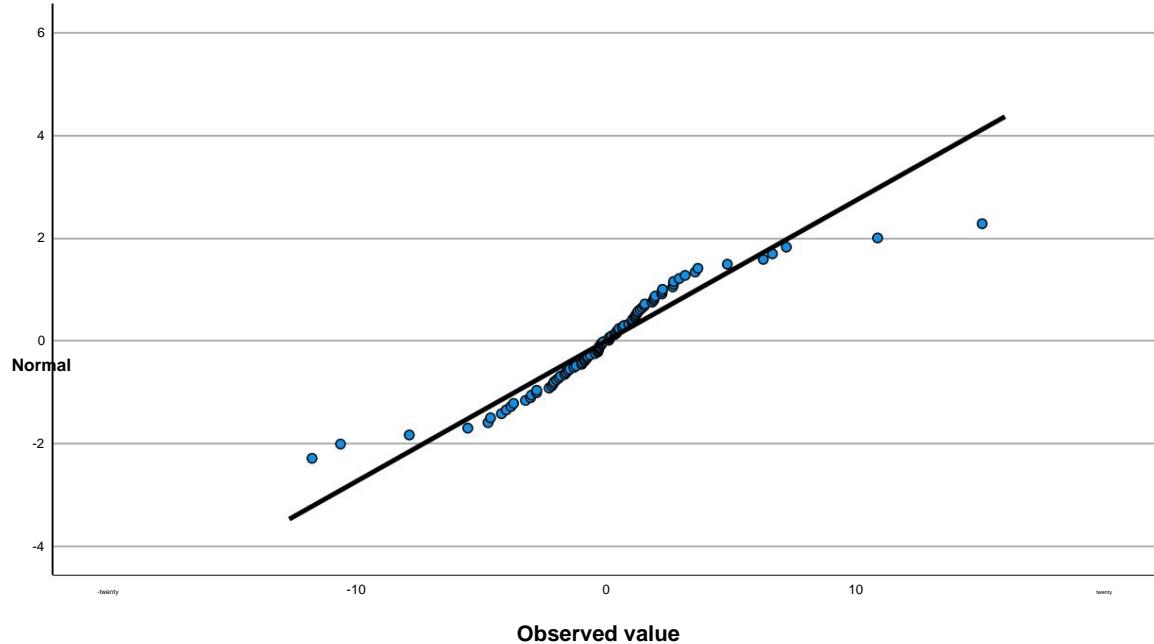
Case Processing Summary

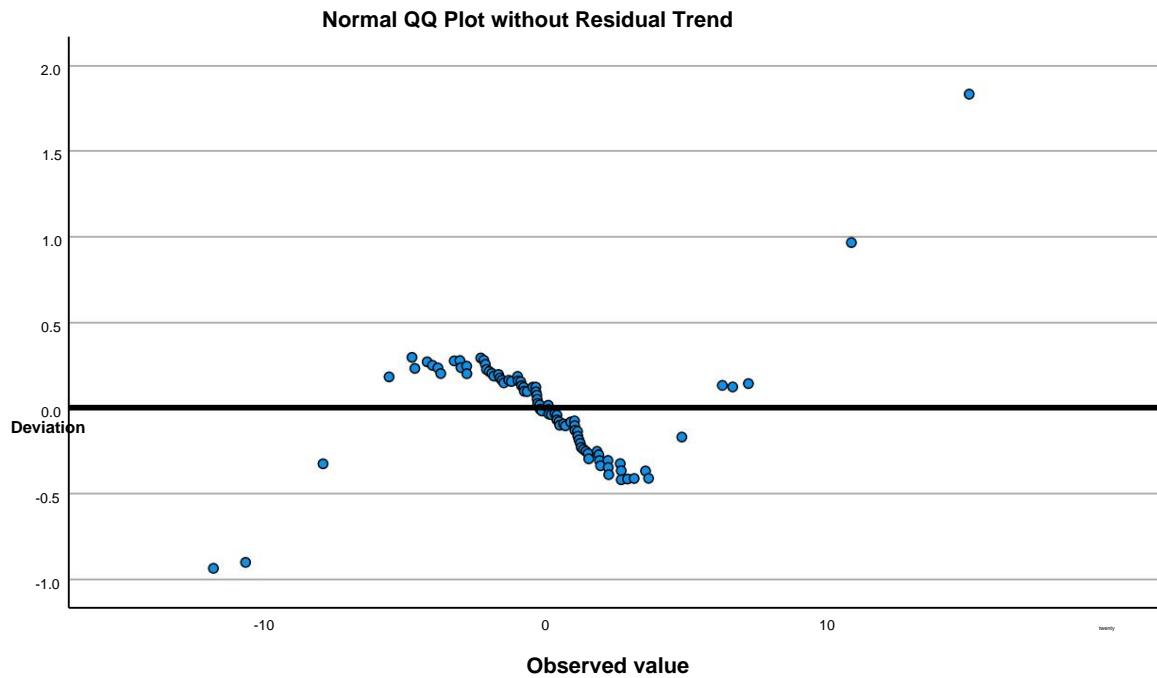
			Cases			
	Valid N	Percentage	Lost N	Percentage	Total N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova			Shapiro-Wilk		
	Statistical	gl	Sig.	Statistical	gl	Next.
Waste	.121	88	.003	.911	88	<.001

to. Lilliefors significance correction

Waste**Normal Residual QQ Chart**



Mixed model analysis

Model dimension

		Number of levels	Covariance structure	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	MAIN FACTOR * GROUP	4		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	ROL_PlayersDeveloper	2		1
	GROUP	2		0
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	ID Random Effects	44 Identity		1
Repeated effects	MAINFACTOR	2	Without structure	3
Total		61		12

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	MAIN FACTOR * GROUP		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66		
	ROL_PlayersDeveloper GROUP		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
ID Random Effects			
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	509.93756899
Information criterion Akaike (AIC)	517.93756899
Hurvich and Tsai criterion (AICC)	518.47090233
Bozdogan Criterion (CAIC)	531.46567553
Bayesian criterion Schwarz (BIC)	527.46567553

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	42,037	1984	.166
MAIN FACTOR * GROUP	1	42,037	2,329	.134
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt33gt33lt653gt66	2	38,040	3,362	.045
ROL_PlayersDeveloper	1	38,039	36,065	<.001
GROUP	1	39,091	.049	.826
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	38,036	2,794	.103

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	30,433 3179256,525	
A (2,1)	5,277 3179256,525	
A (2,2)	8,257 3179256,525	
ID	Variance	17,196 3179256,525

to. Dependent variable: SQRT_LengthComments.

Explore

Case Processing Summary

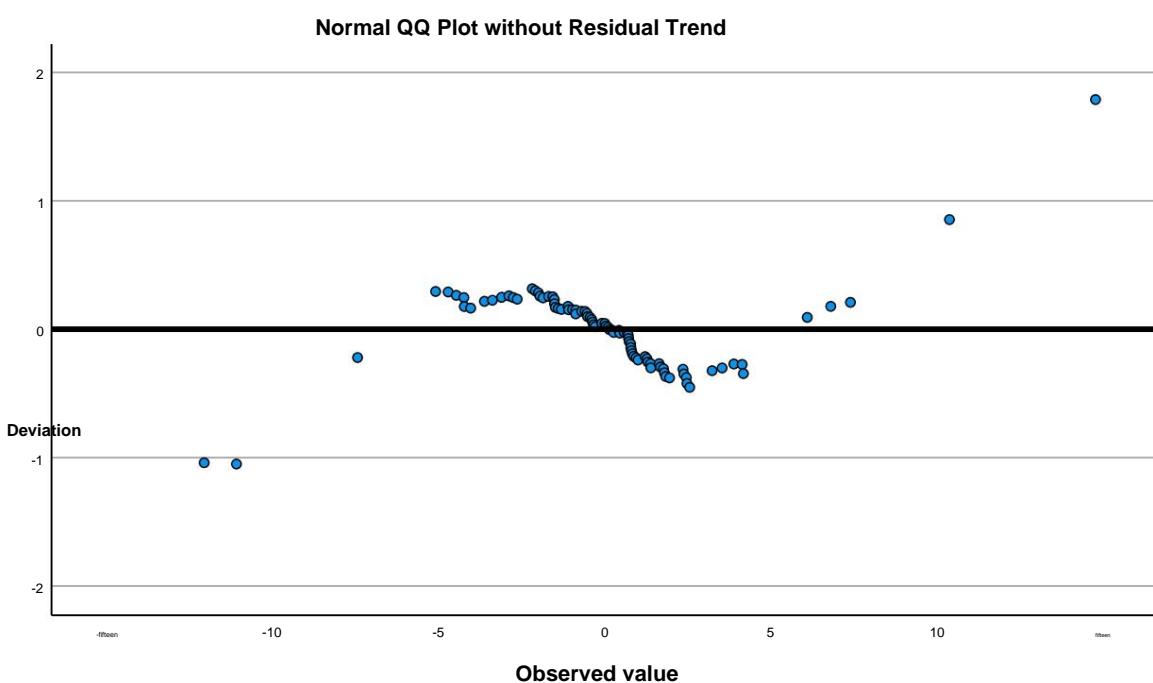
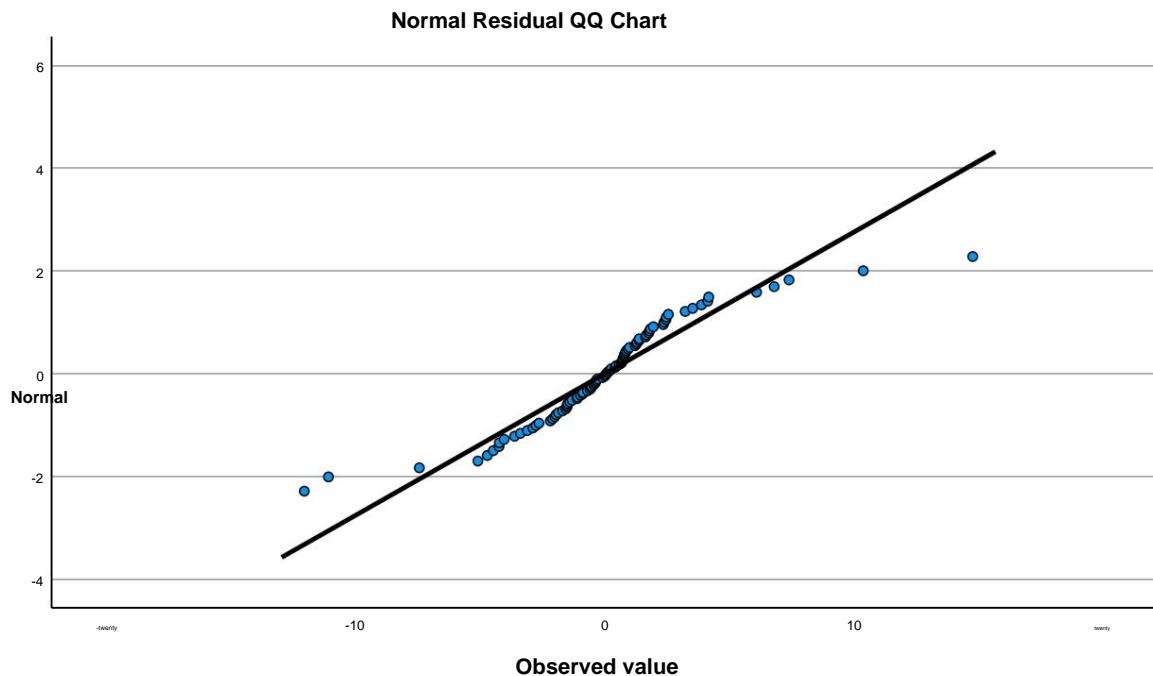
	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova gl			Shapiro-Wilk		
	Statistical	Sig.	gl	Statistical	gl	Next.
Waste	.126	88	.001	.907	88	<.001

to. Lilliefors significance correction

Waste



Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	MAIN FACTOR * GROUP	4		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	ROL_PlayersDeveloper	2		1
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	ID Random Effects	44 Identity		1
Repeated effects MAINFACTOR		2	Without structure	3
Total		59		12

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	MAIN FACTOR * GROUP		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	ROL_PlayersDeveloper		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	509.93756899
Information criterion Akaike (AIC)	517.93756899
Hurvich and Tsai criterion (AICC)	518.47090233
Bozdogan Criterion (CAIC)	531.46567553
Bayesian criterion Schwarz (BIC)	527.46567553

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	42,037	1984	.166
MAIN FACTOR * GROUP	2	40,727	1,526	,230
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	38,037	3,362	.045
ROL_PlayervsDeveloper	1	38,036	36,065	<.001
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	38,036	2,794	.103

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	32,441	3188775,781
A (2,1)	7,285	3188775,781
A (2,2)	10,265	3188775,781
ID	Variance	15,187
		3188775,781

to. Dependent variable: SQRT_LengthComments.

Explore

Case Processing Summary

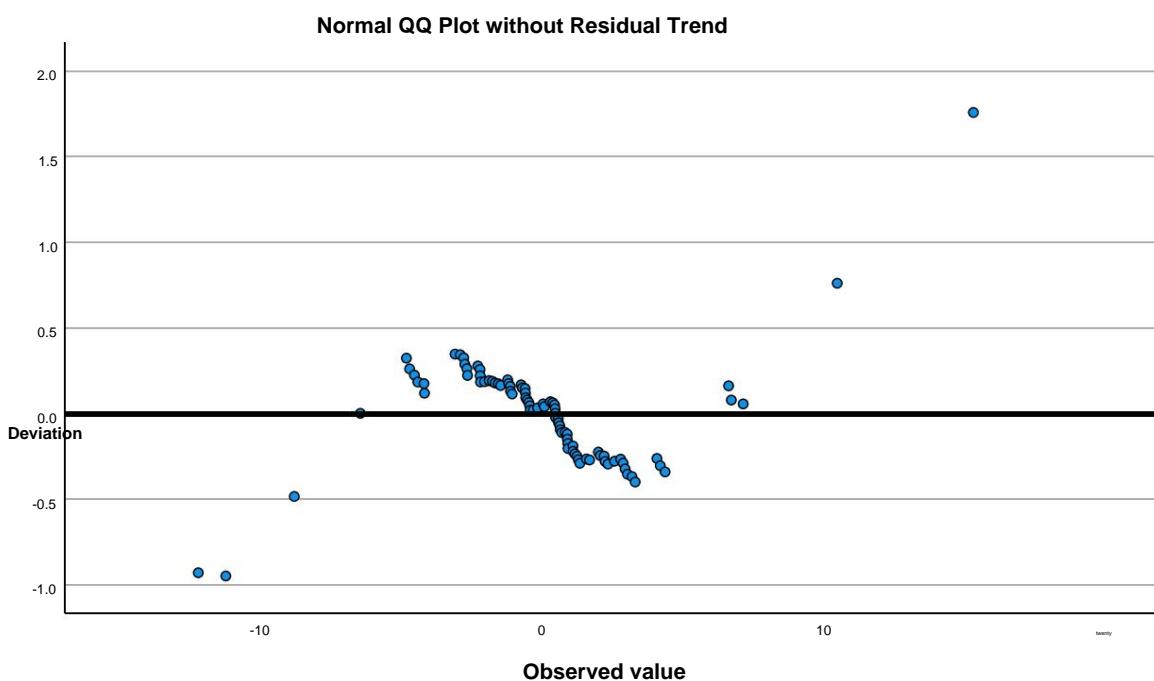
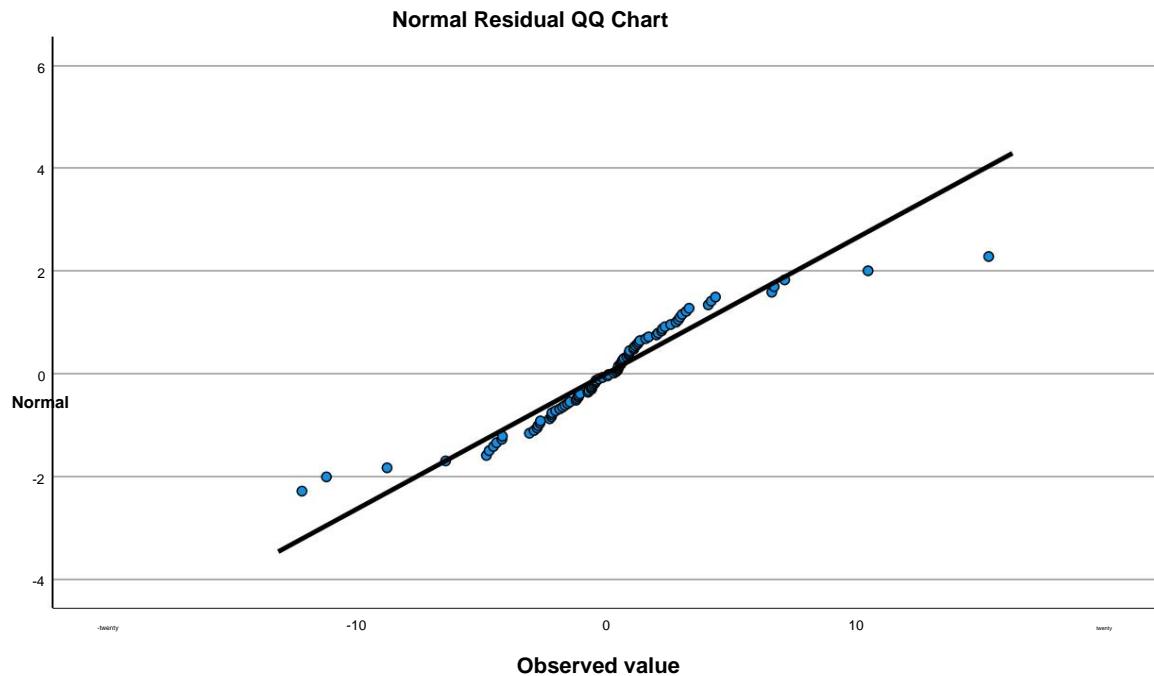
	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova gl			Shapiro-Wilk		
	Statistical	Sig.		Statistical	gl	Next.
Waste	,110	88	.011	.918	88	<.001

to. Lilliefors significance correction

Waste



Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	ROL_PlayersDeveloper	2		1
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	ID Random Effects	44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		55		10

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	ROL_PlayersDeveloper		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	ID Random Effects		
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	518.46289722
Information criterion Akaike (AIC)	526.46289722
Hurvich and Tsai criterion (AICC)	526.98237774
Bozdogan Criterion (CAIC)	540.08977421
Bayesian criterion Schwarz (BIC)	536.08977421

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,003	2,123	.152
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	39,015	3,242	.050
ROL_PlayervsDeveloper	1	39,010	36,001	<.001
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	39,015	2,376	.131

to. Dependent variable: SQRT_LengthComments.

Covariance parameters**Covariance Parameter Estimatesa**

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	27,536	4657362,741
A (2,1)	2,306	4657362,741
A (2,2)	6,083	4657362,741
ID	Variance	19,350

to. Dependent variable: SQRT_LengthComments.

Explore**Case Processing Summary**

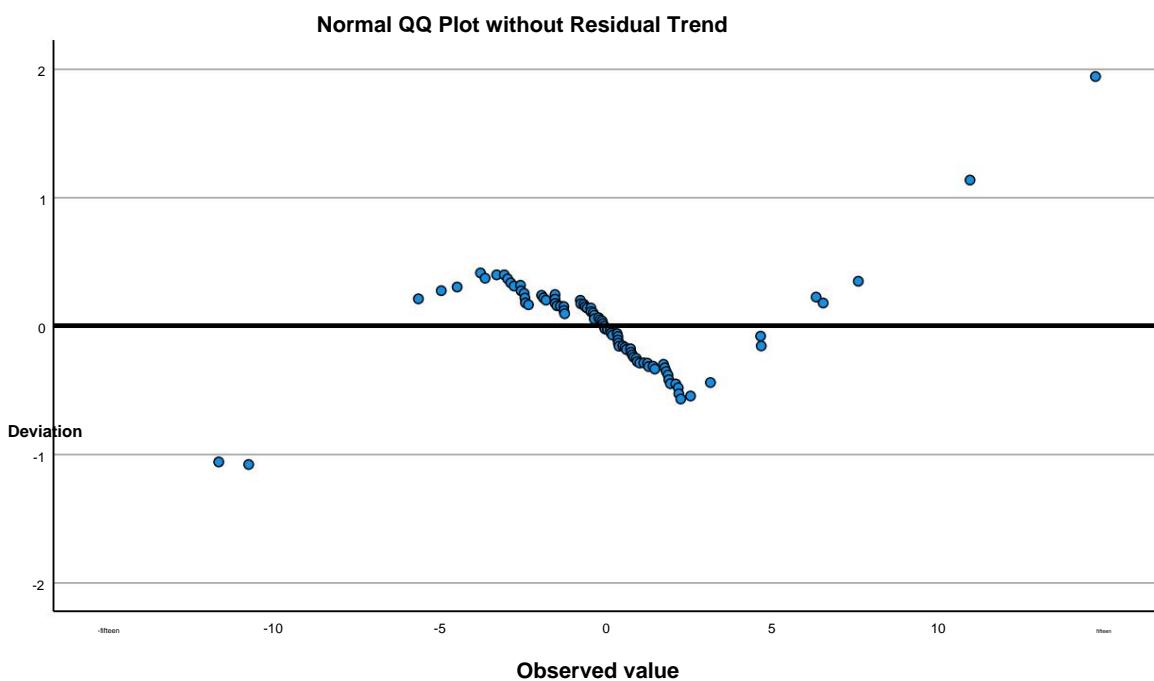
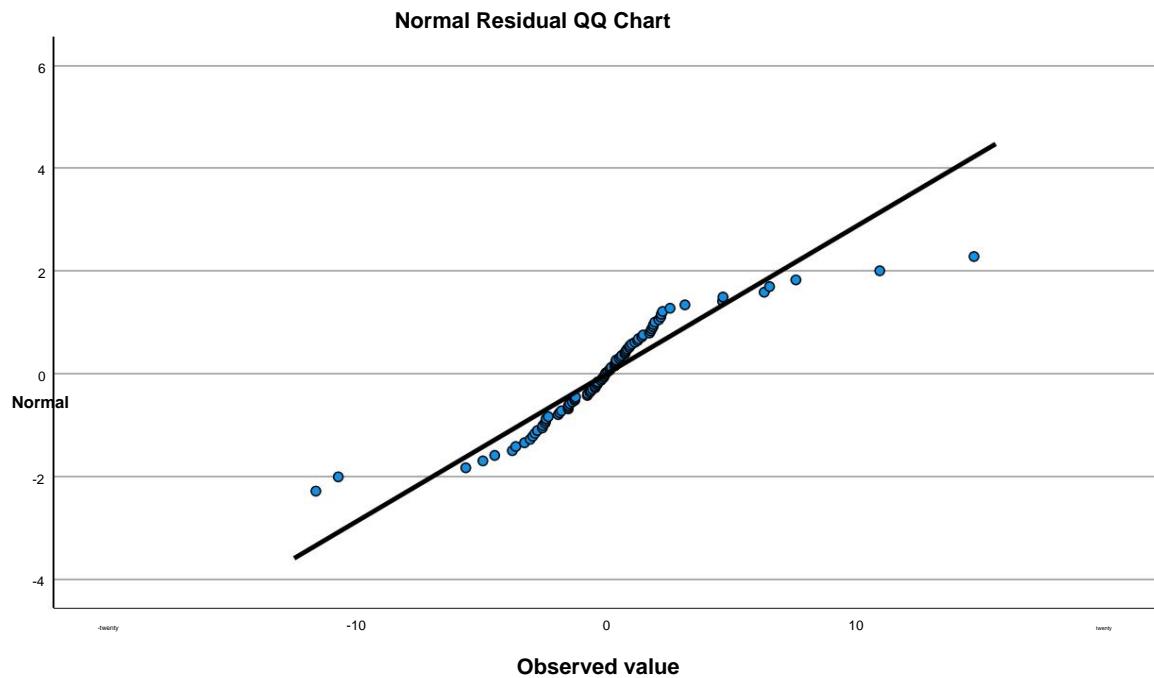
	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova gl			Shapiro-Wilk		
	Statistical	Sig.	gl	Statistical	gl	Next.
Waste	.157	88	<.001	.878	88	<.001

to. Lilliefors significance correction

Waste



Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	ROL_PlayervsDeveloper	2		1
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	MAIN FACTOR *	6		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66			
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		61		12

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	ROL_PlayervsDeveloper		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	MAIN FACTOR *		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
ID Random Effects			
Repeated effects MAINFACTOR		ID	44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	508.46711207
Information criterion Akaike (AIC)	516.46711207
Hurvich and Tsai criterion (AICC)	517.00044540
Bozdogan Criterion (CAIC)	529.99521861
Bayesian criterion Schwarz (BIC)	525.99521861

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	41,000	1,283	.264
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt32gt 33lt653gt66	2	40,398	3,953	.027
ROL_PlayersDeveloper	1	38,998	36,000	<.001
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	38,998	2,376	.131
MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt32gt 33lt653gt66	2	41,000	1,717	,192

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	30,819	10,279
A (2,1)	6,403	6,462
A (2,2)	10,058	5,751
ID	Variance	,000

to. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Explore

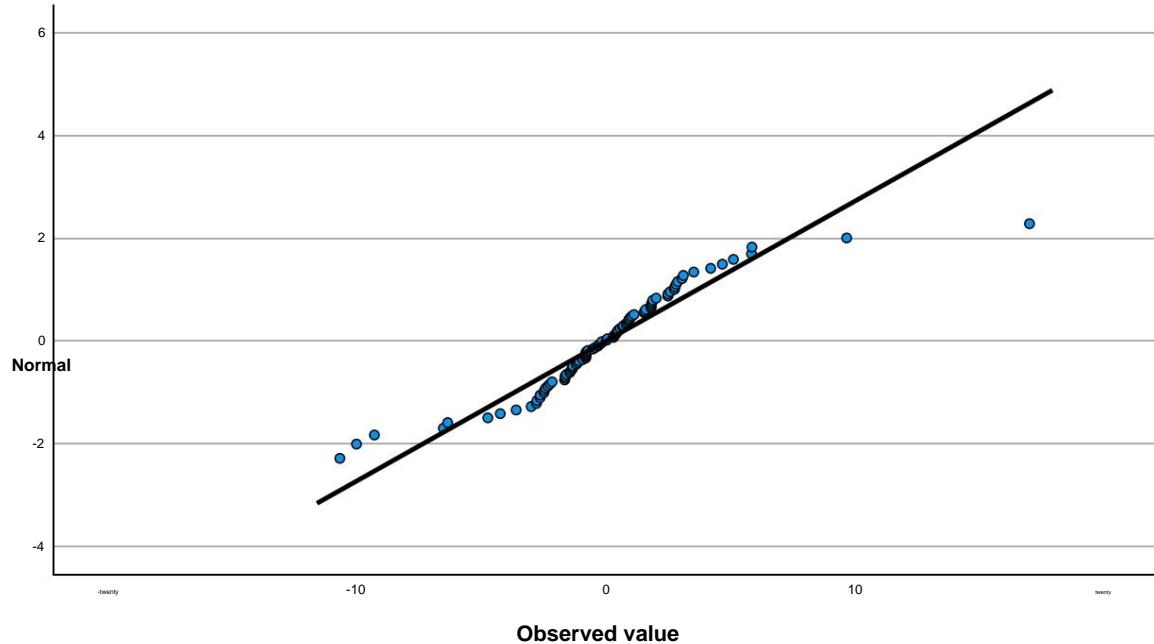
Case Processing Summary

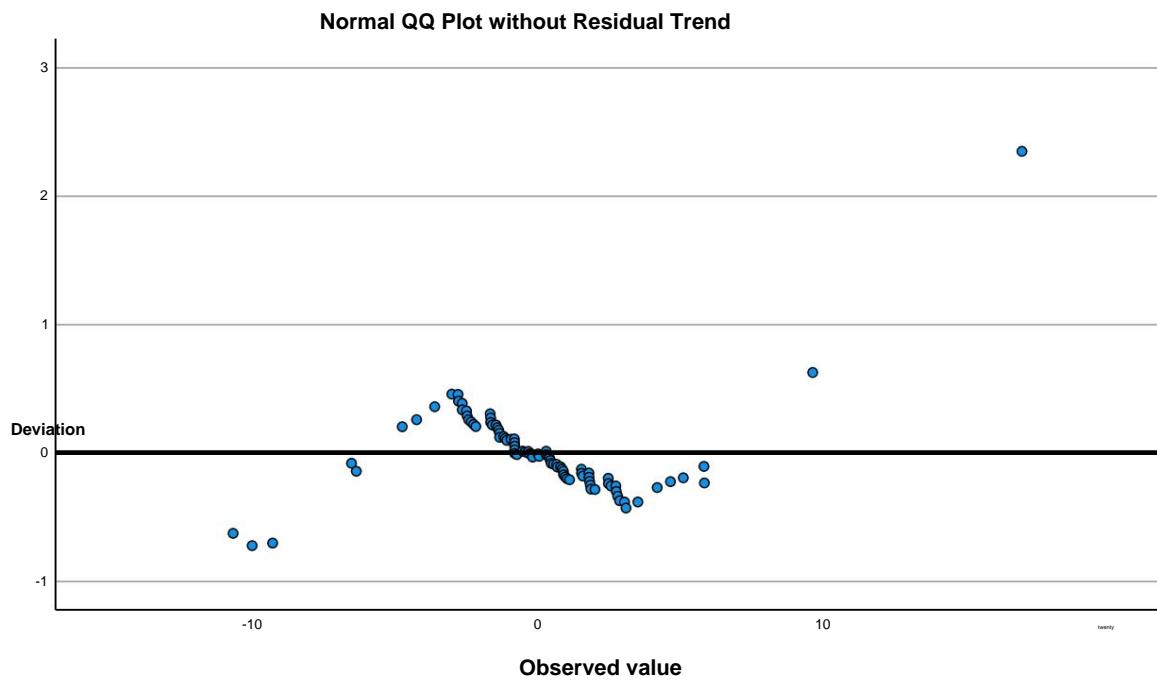
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova			Shapiro-Wilk		
	Statistical	gl	Sig.	Statistical	gl	Next.
Waste	.122	88	.003	.897	88	<.001

to. Lilliefors significance correction

Waste**Normal Residual QQ Chart**



Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	ROL_PlayersDeveloper	2		1
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	6		2
	GROUP	2		1
	MAIN FACTOR * GROUP	4		1
	ID Random Effects	44 Identity		1
	Repeated effects MAINFACTOR	2 Without structure		3
	Total	67		14

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	ROL_PlayervsDeveloper		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	MAIN FACTOR *		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	GROUP		
	MAIN FACTOR *		
	GROUP		
ID Random Effects			
Repeated effects MAINFACTOR	ID	44	
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	500.65184708
Information criterion Akaike (AIC)	508.65184708
Hurvich and Tsai criterion (AICC)	509,19979229
Bozdogan Criterion (CAIC)	522.07868239
Bayesian criterion Schwarz (BIC)	518.07868239

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	40,000	1,081	,305
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	39,565	4,056	,025
ROL_PlayervsDeveloper	1	37,999	36,065	<.001
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	37,999	2,794	,103
MAIN FACTOR *	2	40,000	1,351	,271
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66				
GROUP	1	38,874	,100	,754
MAIN FACTOR * GROUP	1	40,000	1,587	,215

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter		Estimation	Standard error
Repeated Measurements UN (1,1)	30,475	10,648	
A (2,1)	5,732	6,664	
A (2,2)	8,664	5,835	
ID	Variance	16,784b	,000

to. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Explore

Case Processing Summary

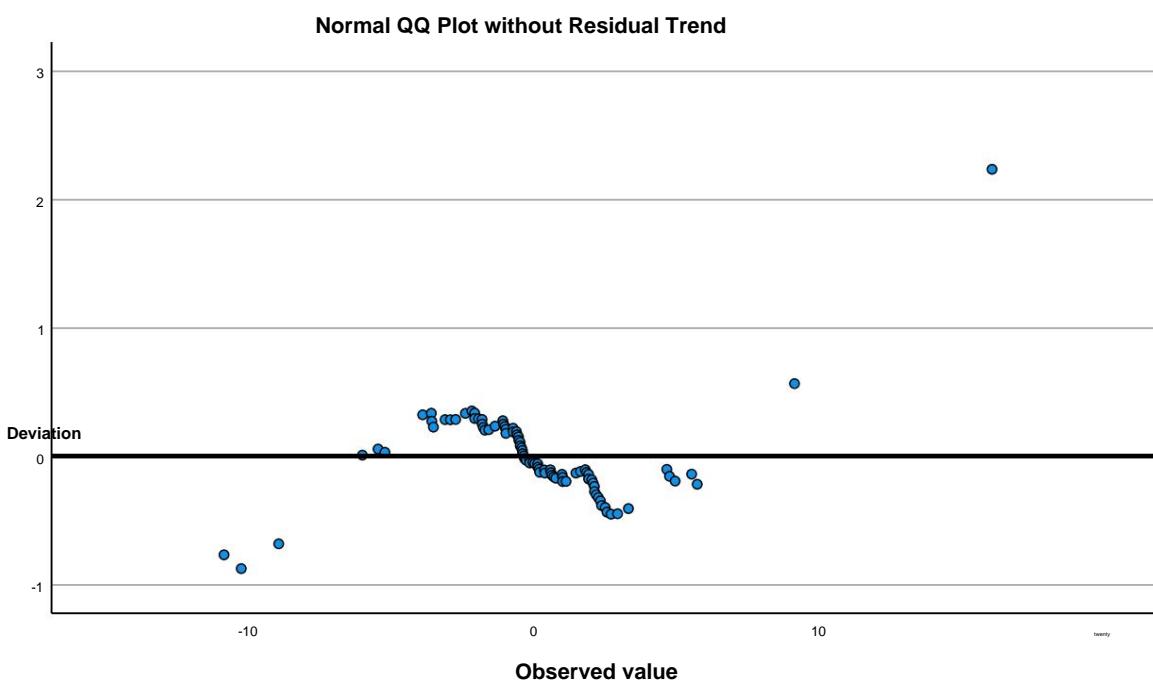
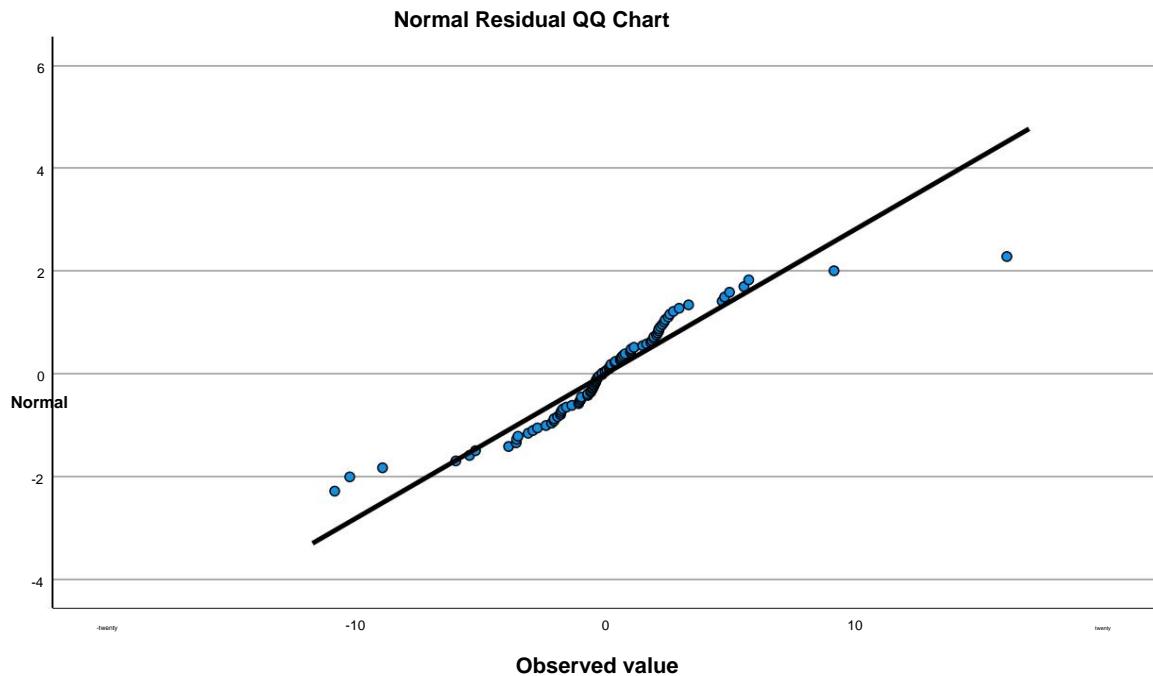
	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova gl			Shapiro-Wilk		
	Statistical	Sig.		Statistical	gl	Next.
Waste	.121	88	,003	,898	88	<.001

to. Lilliefors significance correction

Waste



Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	MAIN FACTOR *	6		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66			
	GROUP	2		1
	MAIN FACTOR * GROUP	4		1
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		65		13

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	MAIN FACTOR *		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	GROUP		
	MAIN FACTOR * GROUP		
ID Random Effects			
Repeated effects MAINFACTOR	ID	44	
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	529.62659844
Information criterion Akaike (AIC)	537.62659844
Hurvich and Tsai criterion (AICC)	538.16713898
Bozdogan Criterion (CAIC)	551.10438985
Bayesian criterion Schwarz (BIC)	547.10438985

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	40	1,081	,305
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	39,631	.651	,527
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	38,999	,169	,683
MAIN FACTOR *	2	40	1,351	,271
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66				
GROUP	1	39,340	,009	,926
MAIN FACTOR * GROUP	1	40	1,587	,215

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	39,460	15,461
A (2,1)	15,355	11,639
A (2,2)	18,924	10,909
ID Variance	29,260b	,000

to. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Explore**Case Processing Summary**

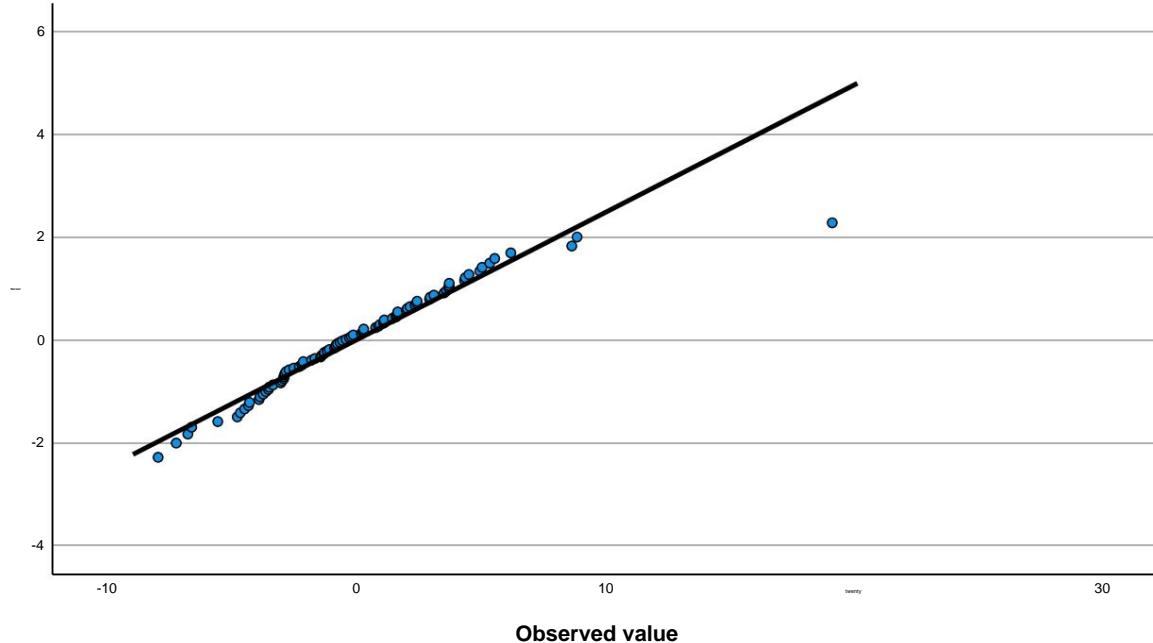
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

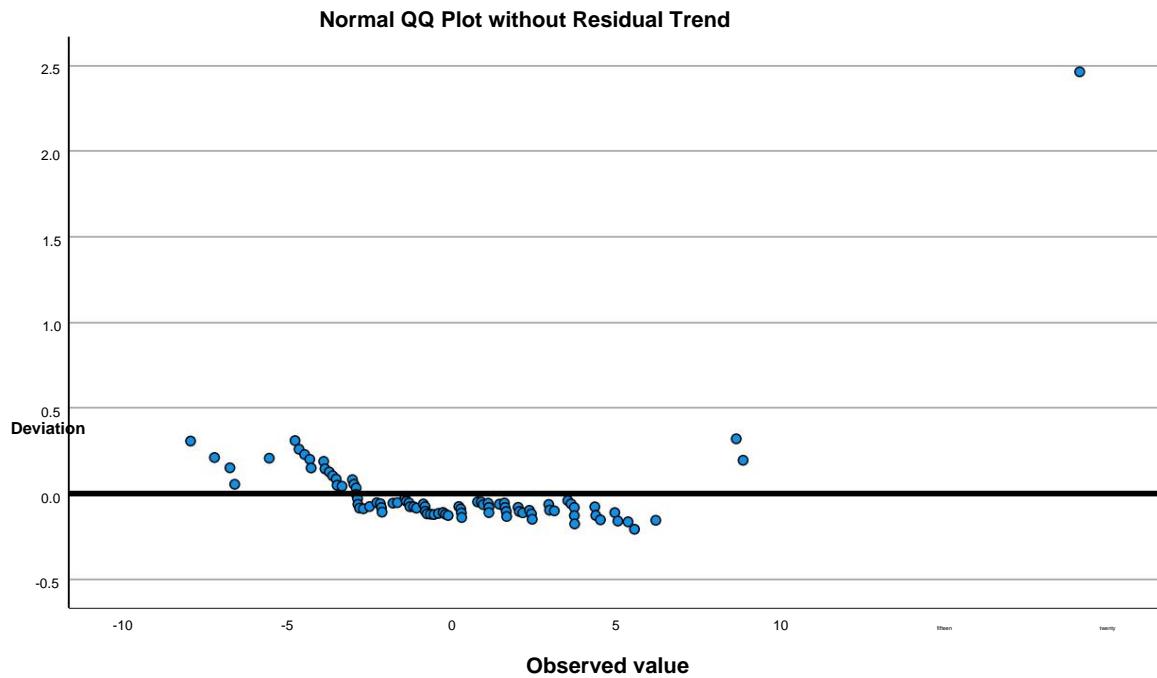
Normality tests

	Kolmogorov-Smirnova			Shapiro-Wilk		
	Statistical	gl	Sig.	Statistical	gl	Next.
Waste	.061	88	.200*	.929	88	<.001

*. This is a lower limit of true significance.

to. Lilliefors significance correction

Waste**Normal Residual QQ Chart**



Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Covariance structure	Number of parameters
Fixed effects	MAIN FACTOR	2		2
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		48		6

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	559.75206920
Information criterion Akaike (AIC)	567.75206920
Hurvich and Tsai criterion (AICC)	568.24589636
Bozdogan Criterion (CAIC)	581.56945838
Bayesian criterion Schwarz (BIC)	577.56945838

The information criteria are displayed in the smaller the better format.

- to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	2	43,000	56,911	<.001

- to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation Standard error	
Repeated Measurements UN (1,1)	38,237	14,244
A (2,1)	13,307	10,428
A (2,2)	17,384	9,747
ID	Variance	,000

- to. Dependent variable: SQRT_LengthComments.

- b. This covariance parameter is redundant.

Explore

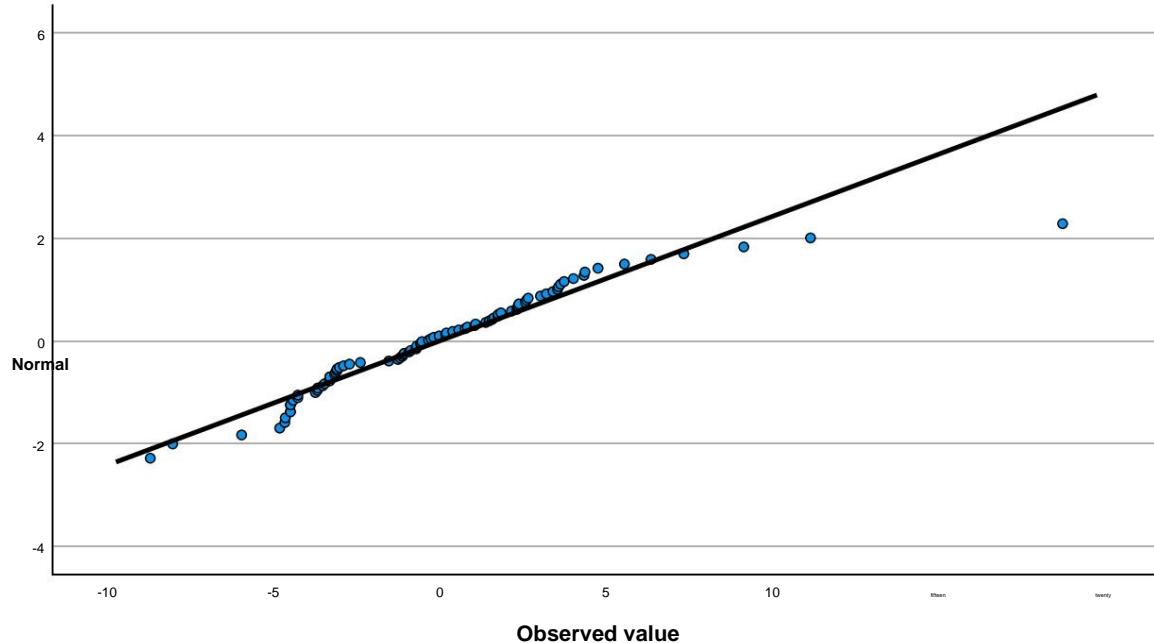
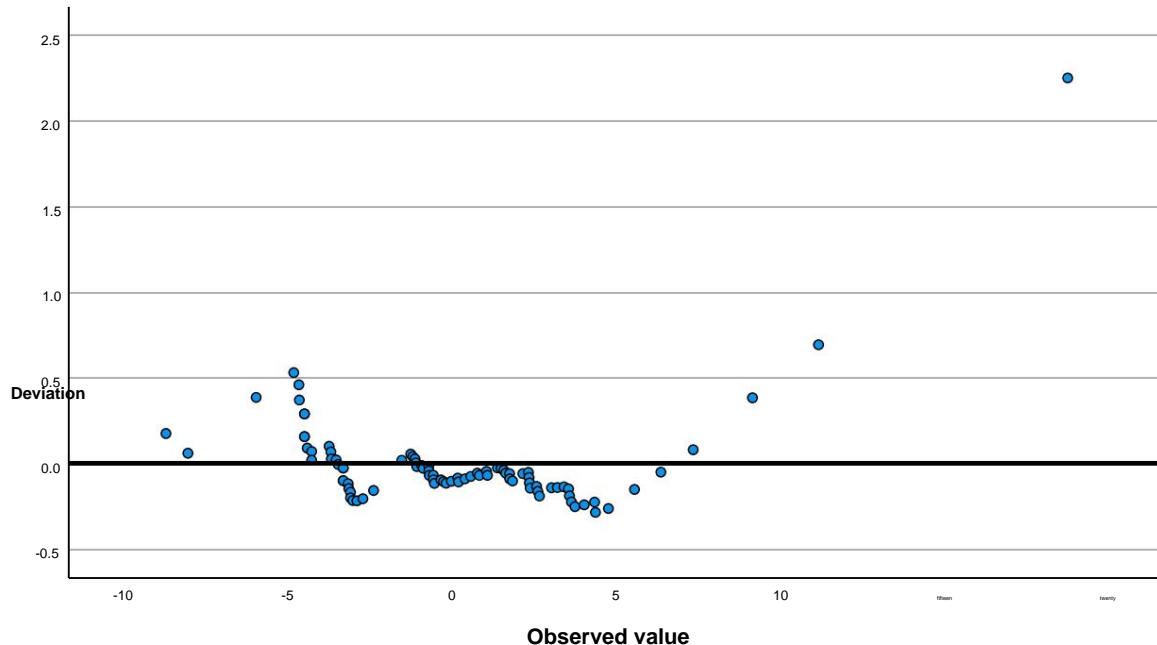
Case Processing Summary

	Cases				Total	
	Valid		Lost			
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova			Shapiro-Wilk		
	Statistical	gl	Sig.	Statistical	gl	Next.
Waste	.088	88	.088	.925	88	<.001

to. Lilliefors significance correction

Waste**Normal Residual QQ Chart****Normal QQ Plot without Residual Trend**

Mixed model analysis**Model dimension**

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ROL_PlayersDeveloper	2		1
	MAIN FACTOR *	4		1
	ROL_PlayersDeveloper			
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		57		10

Model dimension

	Subject variables	Number of subjects
Fixed effects	MAIN FACTOR	
	ROL_PlayersDeveloper	
	MAIN FACTOR *	
	ROL_PlayersDeveloper	
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	
ID Random Effects		
Repeated effects MAINFACTOR	ID	44
Total		

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	520.51893553
Information criterion	528.51893553
Akaike (AIC)	
Hurvich and Tsai criterion (AICC)	529.03841605
Bozdogan Criterion (CAIC)	542.14581252
Bayesian criterion	
Schwarz (BIC)	538.14581252

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	41,997	1,129	.294
ROL_PlayersDeveloper	1	40,181	26,417	<.001
MAIN FACTOR * ROL_PlayersDeveloper	1	41,983	.242	.625
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt33lt653gt66	2	40,004	2,084	.138

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	31,779	3950678,598
A (2,1)	5,885	3950678,598
A (2,2)	9,518	3950678,598
ID	Variance	16,727 3950678,598

to. Dependent variable: SQRT_LengthComments.

Explore

Case Processing Summary

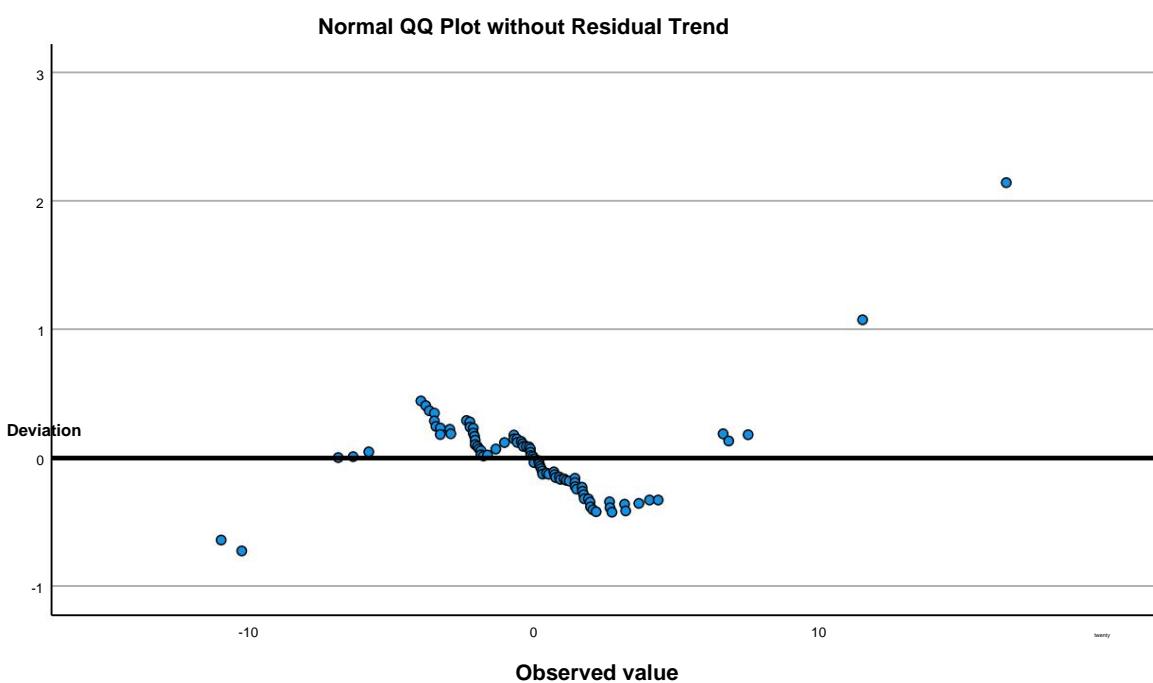
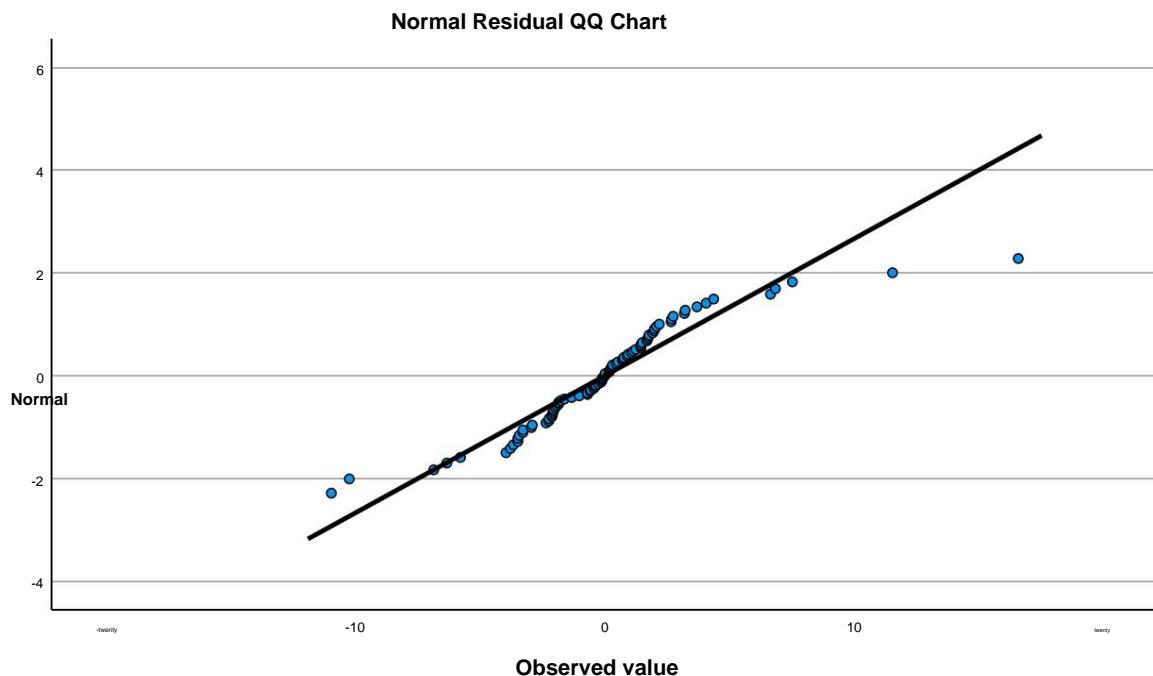
	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnova gl			Shapiro-Wilk		
	Statistical	Sig.	Statistical	gl	Next.	
Waste	.131	88	<.001	.901	88	<.001

to. Lilliefors significance correction

Waste



Mixed model analysis

Warnings

The iteration is finished, but convergence has not been achieved. The MIXED procedure continues, despite this warning. The subsequent results are based on the last iteration. The validity of the model fit is uncertain.

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ROL_PlayersDeveloper	2		1
	MAIN FACTOR *	4		1
	ROL_PlayersDeveloper			
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	MAIN FACTOR *	6		2
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66			
	byDEVELOPINGPRACTICE _LowvsMediumHigh	4		1
	MAIN FACTOR			
ID Random Effects		44	Identity	1
Repeated effects MAINFACTOR		2	Without structure	3
Total		69		14

Model dimension

		Variables subject	Number of subjects
Fixed effects	MAIN FACTOR		
	ROL_PlayersDeveloper		
	MAIN FACTOR *		
	ROL_PlayersDeveloper		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	MAIN FACTOR *		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	MAIN FACTOR		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: SQRT_LengthComments.

Information criteriaa

Restricted log-likelihood -2	502.19070091
Information criterion Akaike (AIC)	510.19070091
Hurvich and Tsai criterion (AICC)	510.73864611
Bozdogan Criterion (CAIC)	523.61753621
Bayesian criterion Schwarz (BIC)	519.61753621

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
SQRT_LengthComments.

\zz{

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	39	.756	,390
ROL_PlayervsDeveloper	1	39	30,520	<.001
MAIN FACTOR * ROL_PlayervsDeveloper	1	39	.013	,909
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	39	3,867	.029
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	39	2,261	.141
MAIN FACTOR * ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	39	1,387	.262
byDEVELOPINGPRACTICE _LowvsMediumHigh MAIN FACTOR	1	39	.039	.845

to. Dependent variable: SQRT_LengthComments.

Covariance parameters

Covariance Parameter Estimates^a

Parameter		Estimation	Standard error
Repeated Measurements UN (1,1)		29,063	10,696
A (2,1)		3,437	6,541
A (2,2)		7,273	5,761
ID	Variance	18,168b	,000

to. Dependent variable: SQRT_LengthComments.

b. This covariance parameter is redundant.

Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ROL_PlayervsDeveloper	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
ID Random Effects		44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		55		10

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	ROL_PlayervsDeveloper		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
ID Random Effects			
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: root3Lengthcomment.

Information criteriaa

Restricted log-likelihood -2	325.45914864
Information criterion Akaike (AIC)	333.45914864
Hurvich and Tsai criterion (AICC)	333.97862916
Bozdogan Criterion (CAIC)	347.08602563
Bayesian criterion Schwarz (BIC)	343.08602563

The information criteria are displayed in the smaller the better format.

to. Dependent variable:
root3Lengthcomment.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,003	2,108	.154
ROL_PlayerVsDeveloper	1	39,039	27,315	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	39,037	3,784	.031
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	39,039	2,104	.155

to. Dependent variable: root3Lengthcomment.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	2,224	376612,165
A (2,1)	.478	376612,165
A (2,2)	1,028	376612,165
ID	Variance	2,002
		376612,165

to. Dependent variable: root3Lengthcomment.

Mixed model analysis

Model dimension

		Number of levels	Structure of covariances	Number of parameters
Fixed effects	MAIN FACTOR	2		2
	ROL_PlayersDeveloper	2		1
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	3		2
	byDEVELOPINGPRACTICE _LowvsMediumHigh	2		1
	GROUP	2		1
	ID Random Effects	44 Identity		1
Repeated effects MAINFACTOR		2 Without structure		3
Total		57		eleven

Model dimension

		Subject variables	Number of subjects
Fixed effects	MAIN FACTOR		
	ROL_PlayersDeveloper		
	ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66		
	byDEVELOPINGPRACTICE _LowvsMediumHigh		
	GROUP		
	ID Random Effects		
Repeated effects MAINFACTOR	ID		44
Total			

to. Dependent variable: root3Lengthcomment.

Information criteriaa

Restricted log-likelihood -2	324.09003224
Information criterion Akaike (AIC)	332.09003224
Hurvich and Tsai criterion (AICC)	332.61634803
Bozdogan Criterion (CAIC)	345.66782885
Bayesian criterion Schwarz (BIC)	341.66782885

The information criteria are displayed in the
the smaller the better format.

to. Dependent variable:
root3Lengthcomment.

Fixed effects

Type IIIa Fixed Effects Tests

Origin	gl of numerator	denominator df	F	Next.
MAIN FACTOR	1	43,031	2,108	.154
ROL_PlayervsDeveloper	1	38,000	27,596	<.001
ByPLAYPROFILEBYSUMPL AYPROFILEBYSUM1lt332gt 33lt653gt66	2	37,999	3,963	.027
byDEVELOPINGPRACTICE _LowvsMediumHigh	1	37,997	2,550	,119
GROUP	1	37,997	.809	.374

to. Dependent variable: root3Lengthcomment.

Covariance parameters

Covariance Parameter Estimatesa

Parameter	Estimation	Standard error
Repeated Measurements UN (1,1)	2,609	407386,818
A (2,1)	.796	407386,818
A (2,2)	1,279	407386,818
ID	Variance	1,738

to. Dependent variable: root3Lengthcomment.

Explore

Case Processing Summary

	Cases					
	Valid		Lost		Total	
	N	Percentage	N	Percentage	N	Percentage
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%
Waste	88	100.0%	0	0.0%	88	100.0%

Normality tests

	Kolmogorov-Smirnov gl			Shapiro-Wilk		
	Statistical	Sig.	,200*	Statistical	gl	Next.
Waste	.081	88		.965	88	.018
Waste	.103	88	.023	.946	88	.001
Waste	.090	88	.076	.964	88	.016
Waste	.094	88	.055	.942	88	<.001
Waste	,129	88	.001	.957	88	.006
Waste	.074	88	,200*	.964	88	.015
Waste	.073	88	,200*	.965	88	.017

*. This is a lower limit of true significance.

to. Lilliefors significance correction

Waste