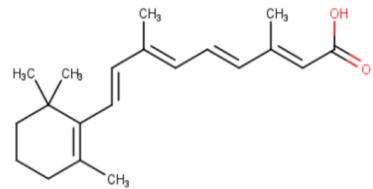
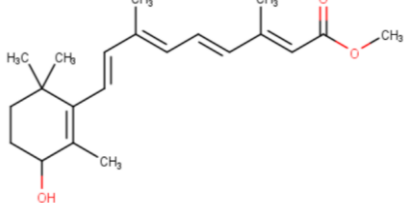
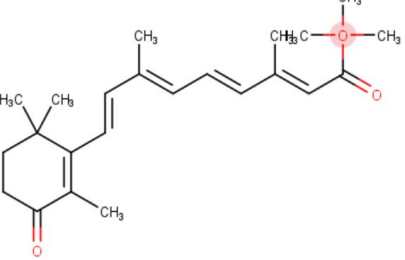
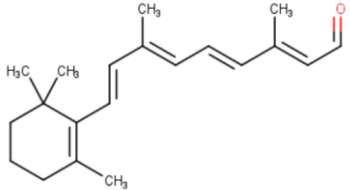
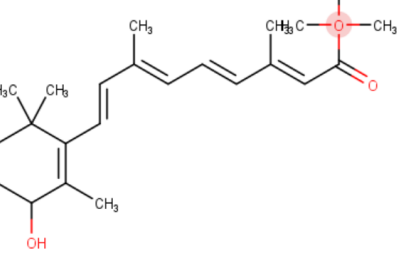
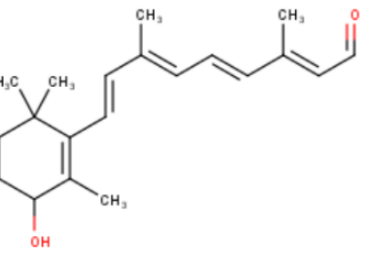
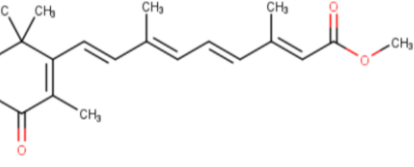
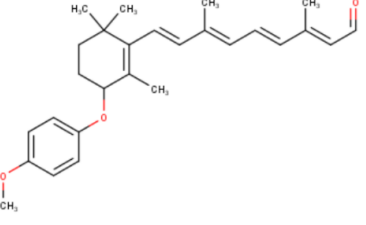


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Lampiran 1. Hasil penggambaran Turunan Retinoid

No.	Struktur Senyawa	No.	Struktur Senyawa
1	 <p style="text-align: center;">RA</p>	5	 <p style="text-align: center;">Methyl 4-hydroxyretinoate</p>
2	 <p style="text-align: center;">t-butyl 4-oxoretinoate</p>	6	 <p style="text-align: center;">RAL</p>
3	 <p style="text-align: center;">t-butyl 4-hydroxyretinoate</p>	7	 <p style="text-align: center;">4-hydroxyretinaldehyde</p>
4	 <p style="text-align: center;">Methyl 4-hydroxyretinoate</p>	8	 <p style="text-align: center;">4-(4-methoxyphenyl) retinal</p>

Lampiran 2. Hasil Regresi Pemodelan Struktur

REGRESSION

```

/VARIABLES= LogP MW
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,97	,95	,89	5,69

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1133,95	2	566,98	17,49	,054
Residual	64,85	2	32,42		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-113,43	21,51	,00	-5,27	,013
LogP	5,42	5,86	,28	,92	,453
MW	,28	,12	,73	2,39	,139

REGRESSION

```

/VARIABLES= LogP Volume
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,96	3,41

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1175,52	2	587,76	50,48	,019
Residual	23,28	2	11,64		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-128,26	14,36	,00	-8,93	,003
LogP	6,93	3,01	,36	2,30	,148
Volume	,21	,05	,69	4,42	,048

REGRESSION

```

/VARIABLES= LogP Area
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,98	,96	,92	4,97

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1149,47	2	574,73	23,30	,041
Residual	49,33	2	24,67		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-137,35	23,49	,00	-5,85	,010
LogP	4,90	5,12	,25	,96	,440
Area	,30	,10	,76	2,85	,104

REGRESSION

```

/VARIABLES= LogS MW
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,96	,92	,85	6,78

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1106,73	2	553,36	12,02	,077
Residual	92,07	2	46,04		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-114,51	39,70	,00	-2,88	,063
LogS	-1,93	18,58	-,05	-,10	,927
MW	,35	,20	,91	1,75	,222

REGRESSION

```

/VARIABLES= LogS Volume
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,97	,94	,89	5,74

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1132,84	2	566,42	17,17	,055
Residual	65,96	2	32,98		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-140,17	29,83	,00	-4,70	,018
LogS	-8,99	11,84	-,25	-,76	,527
Volume	,23	,10	,75	2,25	,153

REGRESSION

```

/VARIABLES= LogS Area
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,97	,94	,88	5,99

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1127,08	2	563,54	15,71	,060
Residual	71,72	2	35,86		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-143,02	30,99	,00	-4,61	,019
LogS	-1,19	15,80	-,03	-,08	,947
Area	,37	,18	,94	2,12	,168

REGRESSION

```

/VARIABLES= LogP Total_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,96	,93	,86	6,49

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1114,48	2	557,24	13,22	,070
Residual	84,32	2	42,16		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-112,24	24,54	,00	-4,57	,020
LogP	7,51	6,09	,39	1,23	,343
Total E	-,02	,01	-,62	-1,98	,186

REGRESSION

```

/VARIABLES= LogP Ele_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,98	,96	,93	4,59

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1156,75	2	578,37	27,51	,035
Residual	42,05	2	21,03		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-84,41	15,60	,00	-5,41	,012
LogP	5,99	4,39	,31	1,36	,305
Ele_E	,00	,00	-,71	-3,15	,088

REGRESSION

```

/VARIABLES= LogP HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,89	,79	,58	11,18

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	949,02	2	474,51	3,80	,208
Residual	249,78	2	124,89		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-87,24	60,13	,00	-1,45	,243
LogP	17,00	6,94	,88	2,45	,134
HF	,02	,36	,02	,07	,952

REGRESSION

```

/VARIABLES= LogP HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,96	3,32

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1176,75	2	588,38	53,37	,018
Residual	22,05	2	11,02		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	259,25	77,64	,00	3,34	,044
LogP	8,20	2,71	,42	3,02	,094
HOMO	33,64	7,39	,64	4,55	,045

REGRESSION

```

/VARIABLES= LogP LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,97	3,07

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1179,94	2	589,97	62,56	,016
Residual	18,86	2	9,43		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-57,06	12,36	,00	-4,62	,019
LogP	19,24	1,76	,99	10,91	,008
LUMO	68,74	13,87	,45	4,95	,038

REGRESSION

```

/VARIABLES= LogS Total_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,94	,89	,77	8,27

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1061,94	2	530,97	7,76	,114
Residual	136,86	2	68,43		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-122,12	47,66	,00	-2,56	,083
LogS	-8,79	21,39	-,25	-,41	,721
Total E	-,02	,02	-,71	-1,19	,357

REGRESSION

```

/VARIABLES= LogS Ele_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,97	,94	,87	6,15

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1123,09	2	561,55	14,83	,063
Residual	75,71	2	37,85		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-85,65	43,81	,00	-1,95	,146
LogS	-5,50	14,49	-,15	-,38	,741
Ele_E	,00	,00	-,83	-2,04	,178

REGRESSION

```

/VARIABLES= LogS HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,95	,91	,82	7,43

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1088,32	2	544,16	9,85	,092
Residual	110,48	2	55,24		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-115,78	43,79	,00	-2,64	,077
LogS	-30,93	7,71	-,87	-4,01	,057
HF	,32	,22	,32	1,49	,274

REGRESSION

```

/VARIABLES= LogS HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,96	3,47

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1174,78	2	587,39	48,91	,020
Residual	24,02	2	12,01		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	226,34	91,26	,00	2,48	,089
LogS	-15,38	5,36	-,43	-2,87	,103
HOMO	33,03	7,91	,63	4,17	,053

REGRESSION

```

/VARIABLES= LogS LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,92	,84	,68	9,75

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1008,73	2	504,36	5,31	,159
Residual	190,07	2	95,04		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-126,90	58,66	,00	-2,16	,119
LogS	-31,84	10,07	-,89	-3,16	,087
LUMO	28,90	42,86	,19	,67	,570

REGRESSION

```

/VARIABLES= MW Total_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	,99	,98	2,41

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1187,20	2	593,60	102,31	,010
Residual	11,60	2	5,80		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-113,36	9,06	,00	-12,51	,001
MW	1,57	,32	4,12	4,86	,040
Total_E	,10	,03	3,17	3,74	,065

REGRESSION

```

/VARIABLES= MW Ele_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,97	,93	,87	6,35

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1118,18	2	559,09	13,87	,067
Residual	80,62	2	40,31		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-58,55	99,86	,00	-,59	,599
MW	-,10	,86	-,26	-,12	,918
Ele_E	,00	,01	-1,23	-,54	,641

REGRESSION

```

/VARIABLES= MW HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,96	3,30

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1177,03	2	588,51	54,06	,018
Residual	21,77	2	10,89		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-86,03	15,88	,00	-5,42	,012
MW	,35	,04	,92	9,48	,011
HF	,25	,10	,25	2,55	,125

REGRESSION

```

/VARIABLES= MW HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,95	3,70

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1171,43	2	585,72	42,80	,023
Residual	27,37	2	13,68		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	154,97	122,80	,00	1,26	,296
MW	,21	,08	,56	2,64	,118
HOMO	24,42	11,19	,46	2,18	,161

REGRESSION

/VARIABLES= MW LUMO
 /DEPENDENT= IC50depigmentasi
 /METHOD=ENTER
 /STATISTICS=COEFF R ANOVA.

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,96	,93	,85	6,69

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1109,17	2	554,59	12,38	,075
Residual	89,63	2	44,81		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-118,40	37,29	,00	-3,18	,050
MW	,37	,08	,97	4,84	,040
LUMO	-7,85	30,63	-,05	-,26	,822

REGRESSION

/VARIABLES= Volume Total_E
 /DEPENDENT= IC50depigmentasi
 /METHOD=ENTER
 /STATISTICS=COEFF R ANOVA.

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,97	,93	,86	6,41

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1116,54	2	558,27	13,57	,069
Residual	82,26	2	41,13		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-130,30	30,06	,00	-4,34	,023
Volume	,38	,30	1,20	1,27	,332
Total E	,01	,03	,25	,26	,820

REGRESSION

```

/VARIABLES= Volume Ele_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,97	,93	,87	6,34

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1118,52	2	559,26	13,93	,067
Residual	80,28	2	40,14		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-87,45	117,89	,00	-,74	,512
Volume	,09	,61	,29	,15	,895
Ele_E	,00	,01	-,67	-,34	,764

REGRESSION

```

/VARIABLES= Volume HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,98	,97	,94	4,23

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1163,07	2	581,53	32,55	,030
Residual	35,73	2	17,87		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-103,72	22,59	,00	-4,59	,019
Volume	,29	,04	,92	7,35	,018
HF	,21	,12	,21	1,66	,239

REGRESSION

```

/VARIABLES= Volume HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,98	,95	,91	5,32

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1142,12	2	571,06	20,15	,047
Residual	56,68	2	28,34		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	108,04	235,99	,00	,46	,678
Volume	,19	,12	,60	1,53	,266
HOMO	20,75	20,76	,39	1,00	,423

REGRESSION

```

/VARIABLES= Volume LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,98	,97	,93	4,53

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1157,68	2	578,84	28,16	,034
Residual	41,12	2	20,56		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-160,44	29,86	,00	-5,37	,013
Volume	,33	,04	1,05	7,31	,018
LUMO	-31,91	21,84	-,21	-1,46	,281

REGRESSION

```

/VARIABLES= Area Total_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	,86

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1197,32	2	598,66	808,06	,001
Residual	1,48	2	,74		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-207,47	7,81	,00	-26,56	,000
Area	1,23	,09	3,11	14,08	,005
Total E	,07	,01	2,15	9,75	,010

REGRESSION

```

/VARIABLES= Area Ele_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,97	,94	,88	5,90

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1129,09	2	564,55	16,20	,058
Residual	69,71	2	34,85		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-197,92	223,43	,00	-,89	,441
Area	,68	1,19	1,73	,57	,624
Ele_E	,00	,01	,76	,25	,824

REGRESSION

```

/VARIABLES= Area HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,99	,97	2,91

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1181,87	2	590,94	69,83	,014
Residual	16,93	2	8,46		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-117,35	16,57	,00	-7,08	,006
Area	,37	,03	,92	10,78	,009
HF	,22	,09	,22	2,55	,126

REGRESSION

```

/VARIABLES= Area HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,96	3,66

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1172,04	2	586,02	43,80	,022
Residual	26,76	2	13,38		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	108,25	137,22	,00	,79	,488
Area	,24	,09	,60	2,68	,116
HOMO	21,83	11,88	,41	1,84	,208

REGRESSION

/VARIABLES= Area LUMO
 /DEPENDENT= IC50depigmentasi
 /METHOD=ENTER
 /STATISTICS=COEFF R ANOVA.

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,97	,94	,89	5,79

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1131,81	2	565,91	16,90	,056
Residual	66,99	2	33,49		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-151,84	37,12	,00	-4,09	,026
Area	,39	,07	,99	5,66	,030
LUMO	-10,21	26,57	-,07	-,38	,738

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REGRESSION
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  /VARIABLES= LogP MW Volume
  /DEPENDENT= IC50depigmentasi
  /METHOD=ENTER
  /STATISTICS=COEFF R ANOVA.
```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	,24

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1198,74	3	399,58	6746,08	,009
Residual	,06	1	,06		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-144,71	1,32	,00	-109,72	,000
LogP	11,26	,31	,58	36,74	,017
MW	-,44	,02	-1,15	-19,80	,032
Volume	,52	,02	1,65	33,07	,019

```
REGRESSION
```

```
  /VARIABLES= LogP MW Area
  /DEPENDENT= IC50depigmentasi
  /METHOD=ENTER
  /STATISTICS=COEFF R ANOVA.
```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	,19

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1198,76	3	399,59	11234,05	,007
Residual	,04	1	,04		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-290,30	4,20	,00	-69,05	,000
LogP	4,90	,19	,25	25,18	,025
MW	-1,92	,05	-5,05	-37,23	,017
Area	2,30	,05	5,81	42,69	,015

REGRESSION

```

/VARIABLES= LogP Area Volume
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	,26

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1198,73	3	399,58	5929,92	,010
Residual	,07	1	,07		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-101,63	1,80	,00	-56,36	,000
LogP	13,15	,41	,68	32,40	,020
Area	-,68	,04	-1,72	-18,56	,034
Volume	,67	,02	2,14	27,04	,024

REGRESSION

/VARIABLES= LogS MW Volume
 /DEPENDENT= IC50depigmentasi
 /METHOD=ENTER
 /STATISTICS=COEFF R ANOVA.

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,98	,95	,81	7,61

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1140,91	3	380,30	6,57	,278
Residual	57,89	1	57,89		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-166,63	81,13	,00	-2,05	,176
LogS	-18,57	30,05	-,52	-,62	,648
MW	-,35	,93	-,91	-,37	,772
Volume	,44	,57	1,41	,77	,583

REGRESSION

/VARIABLES= LogS MW Area
 /DEPENDENT= IC50depigmentasi
 /METHOD=ENTER
 /STATISTICS=COEFF R ANOVA.

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	,99	,97	2,89

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1190,42	3	396,81	47,35	,106
Residual	8,38	1	8,38		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-342,81	74,20	,00	-4,62	,044
LogS	-10,97	8,43	-,31	-1,30	,417
MW	-2,41	,88	-6,32	-2,75	,222
Area	2,77	,88	7,00	3,16	,195

REGRESSION

```

/VARIABLES= LogS Area Volume
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,97	,95	,78	8,12

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1132,88	3	377,63	5,73	,296
Residual	65,92	1	65,92		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-139,91	43,30	,00	-3,23	,084
LogS	-9,84	36,17	-,28	-,27	,831
Area	-,04	1,40	-,09	-,03	,983
Volume	,26	,86	,82	,30	,816

REGRESSION

```

/VARIABLES= LogP LogS MW
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

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Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,98	,96	,84	6,89

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1151,35	3	383,78	8,09	,252
Residual	47,45	1	47,45		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-88,85	48,22	,00	-1,84	,207
LogP	9,63	9,93	,50	,97	,510
LogS	15,99	26,40	,45	,61	,653
MW	,36	,20	,96	1,81	,322

REGRESSION

```

/VARIABLES= LogP LogS Volume
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,99	,95	3,73

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1184,87	3	394,96	28,36	,137
Residual	13,93	1	13,93		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-113,67	23,74	,00	-4,79	,041
LogP	10,44	5,40	,54	1,93	,304
LogS	10,34	12,62	,29	,82	,563
Volume	,25	,07	,80	3,68	,169

REGRESSION

```

/VARIABLES= LogP LogS Area
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,97	,89	5,79

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1165,30	3	388,43	11,60	,212
Residual	33,50	1	33,50		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-120,77	36,48	,00	-3,31	,080
LogP	8,89	8,32	,46	1,07	,479
LogS	14,63	21,28	,41	,69	,617
Area	,38	,17	,96	2,24	,267

REGRESSION

```

/VARIABLES= LogP Total_E Ele_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	,99	1,79

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1195,59	3	398,53	124,13	,066
Residual	3,21	1	3,21		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-19,23	19,71	,00	-,98	,432
LogP	5,72	1,72	,30	3,33	,186
Total_E	,05	,01	1,50	3,48	,178
Ele_E	-,01	,00	-2,22	-5,03	,125

REGRESSION

```

/VARIABLES= LogP Total_E HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,91	5,07

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1173,10	3	391,03	15,22	,186
Residual	25,70	1	25,70		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-82,83	27,32	,00	-3,03	,094
LogP	2,12	5,94	,11	,36	,782
Total_E	-,03	,01	-,82	-2,95	,208
HF	,28	,18	,28	1,51	,372

REGRESSION

```

/VARIABLES= LogP Total_E HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	1,09

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1197,61	3	399,20	335,51	,040
Residual	1,19	1	1,19		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	167,17	33,68	,00	4,96	,038
LogP	5,96	1,04	,31	5,74	,110
Total_E	-,01	,00	-,28	-4,19	,149
HOMO	25,72	3,08	,49	8,36	,076

REGRESSION

```

/VARIABLES= LogP Total_E LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

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Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,94	4,28

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1180,46	3	393,49	21,45	,157
Residual	18,34	1	18,34		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-51,79	35,75	,00	-1,45	,284
LogP	20,51	7,95	1,06	2,58	,235
Total_E	,00	,01	,07	,17	,894
LUMO	74,49	39,28	,49	1,90	,309

REGRESSION

```

/VARIABLES= LogP Ele_E HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

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Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,99	,95	3,86

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1183,89	3	394,63	26,47	,142
Residual	14,91	1	14,91		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-60,92	21,81	,00	-2,79	,108
LogP	3,27	4,21	,17	,78	,579
Ele_E	,00	,00	-,79	-3,97	,157
HF	,17	,13	,17	1,35	,406

REGRESSION

```

/VARIABLES= LogP Ele_E HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	,65

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1198,37	3	399,46	935,50	,024
Residual	,43	1	,43		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	139,23	22,76	,00	6,12	,026
LogP	5,88	,63	,30	9,40	,068
Ele_E	,00	,00	-,35	-7,12	,089
HOMO	21,81	2,21	,41	9,87	,064

REGRESSION

```

/VARIABLES= LogP Ele_E LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,94	4,27

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1180,57	3	393,52	21,58	,157
Residual	18,23	1	18,23		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-60,54	25,44	,00	-2,38	,140
LogP	17,31	10,71	,89	1,62	,353
Ele_E	,00	,00	-,11	-,19	,883
LUMO	59,73	52,26	,39	1,14	,458

REGRESSION

```

/VARIABLES= LogP HF HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

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Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,99	,96	3,58

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1186,01	3	395,34	30,91	,131
Residual	12,79	1	12,79		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	263,90	83,81	,00	3,15	,088
LogP	8,59	2,96	,44	2,90	,211
HF	-,10	,12	-,10	-,85	,551
HOMO	35,35	8,21	,67	4,30	,145

REGRESSION

```

/VARIABLES= LogP HF LUMO
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/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	,99	2,05

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1194,60	3	398,20	94,87	,075
Residual	4,20	1	4,20		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-39,01	12,70	,00	-3,07	,092
LogP	18,29	1,28	,95	14,26	,045
HF	,13	,07	,13	1,87	,313
LUMO	72,22	9,44	,47	7,65	,083

REGRESSION

```

/VARIABLES= LogP LUMO HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	,99	,97	2,83

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1190,81	3	396,94	49,68	,104
Residual	7,99	1	7,99		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	101,28	136,21	,00	,74	,535
LogP	13,89	4,87	,72	2,85	,215
LUMO	38,42	28,96	,25	1,33	,411
HOMO	16,65	14,27	,32	1,17	,451

REGRESSION

```

/VARIABLES= LogS Total_E Ele_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	,99	1,38

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1196,90	3	398,97	209,67	,051
Residual	1,90	1	1,90		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-15,37	14,96	,00	-1,03	,412
LogS	-16,18	3,67	-,45	-4,40	,142
Total_E	,08	,01	2,34	6,23	,101
Ele_E	-,01	,00	-2,88	-8,42	,075

REGRESSION

```

/VARIABLES= LogS Total_E HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,94	4,33

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1180,01	3	393,34	20,94	,159
Residual	18,79	1	18,79		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-91,94	27,72	,00	-3,32	,080
LogS	-8,25	11,21	-,23	-,74	,596
Total_E	-,02	,01	-,69	-2,21	,271
HF	,31	,13	,32	2,51	,242

REGRESSION

```

/VARIABLES= LogS Total_E HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,93	4,54

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1178,17	3	392,72	19,04	,167
Residual	20,63	1	20,63		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	198,69	137,66	,00	1,44	,286
LogS	-11,54	11,80	-,32	-,98	,507
Total_E	-,01	,01	-,16	-,41	,755
HOMO	30,08	12,67	,57	2,37	,254

REGRESSION

```

/VARIABLES= LogS Total_E LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,94	,89	,51	11,68

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1062,40	3	354,13	2,60	,421
Residual	136,40	1	136,40		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-123,34	70,50	,00	-1,75	,222
LogS	-7,17	41,13	-,20	-,17	,890
Total_E	-,02	,04	-,76	-,63	,643
LUMO	-4,27	73,70	-,03	-,06	,963

REGRESSION

/VARIABLES= LogS Ele_E HF
 /DEPENDENT= IC50depigmentasi
 /METHOD=ENTER
 /STATISTICS=COEFF R ANOVA.

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	,99	,97	3,04

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1189,55	3	396,52	42,88	,112
Residual	9,25	1	9,25		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-72,29	22,22	,00	-3,25	,083
LogS	-9,18	7,29	-,26	-1,26	,427
Ele_E	,00	,00	-,69	-3,31	,187
HF	,24	,09	,24	2,68	,227

REGRESSION

/VARIABLES= LogS Ele_E HOMO
 /DEPENDENT= IC50depigmentasi
 /METHOD=ENTER
 /STATISTICS=COEFF R ANOVA.

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,91	4,30

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1180,29	3	393,43	21,25	,158
Residual	18,51	1	18,51		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	172,63	150,11	,00	1,15	,369
LogS	-10,89	10,59	-,30	-1,03	,491
Ele_E	,00	,00	-,24	-,55	,682
HOMO	26,71	15,19	,51	1,76	,329

REGRESSION

```

/VARIABLES= LogS Ele E LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,97	,95	,78	8,11

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1133,09	3	377,70	5,75	,295
Residual	65,71	1	65,71		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-84,06	57,87	,00	-1,45	,284
LogS	,95	25,26	,03	,04	,976
Ele_E	,00	,00	-1,03	-1,38	,400
LUMO	-19,54	50,09	-,13	-,39	,763

REGRESSION

```

/VARIABLES= LogS HF HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,99	,95	3,82

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1184,21	3	394,74	27,06	,140
Residual	14,59	1	14,59		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	178,38	116,91	,00	1,53	,267
LogS	-17,62	6,53	-,49	-2,70	,226
HF	,11	,14	,11	,80	,569
HOMO	27,83	10,85	,53	2,56	,237

REGRESSION

```

/VARIABLES= LogS HF LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	,99	,97	3,03

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1189,65	3	396,55	43,32	,111
Residual	9,15	1	9,15		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-75,14	21,61	,00	-3,48	,074
LogS	-30,26	3,14	-,85	-9,62	,066
HF	,41	,09	,41	4,45	,141
LUMO	46,08	13,85	,30	3,33	,186

REGRESSION

```

/VARIABLES= LogS LUMO HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,99	,94	4,10

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1182,02	3	394,01	23,48	,150
Residual	16,78	1	16,78		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	268,42	125,46	,00	2,14	,166
LogS	-13,16	7,19	-,37	-1,83	,318
LUMO	-14,82	22,57	-,10	-,66	,630
HOMO	37,67	11,72	,71	3,21	,192

REGRESSION

```

/VARIABLES= LogP LogS Total_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,97	,95	,79	8,01

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1134,62	3	378,21	5,89	,292
Residual	64,18	1	64,18		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-84,40	58,20	,00	-1,45	,284
LogP	12,70	11,94	,66	1,06	,480
LogS	18,44	32,93	,52	,56	,675
Total_E	-,03	,02	-,88	-1,47	,381

REGRESSION

```

/VARIABLES= LogP LogS Ele_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,90	5,44

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1169,19	3	389,73	13,16	,199
Residual	29,61	1	29,61		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-58,11	44,60	,00	-1,30	,322
LogP	9,79	7,85	,51	1,25	,430
LogS	12,51	19,30	,35	,65	,634
Ele_E	,00	,00	-,87	-2,41	,250

REGRESSION

```

/VARIABLES= LogP LogS HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,93	4,68

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1176,89	3	392,30	17,91	,172
Residual	21,91	1	21,91		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients		t	Sig.
	B	Std. Error	Beta			
(Constant)	-137,62	29,63		,00	-4,64	,043
LogP	-29,69	14,76		-1,53	-2,01	,294
LogS	-79,56	24,67		-2,23	-3,23	,191
HF	,85	,30		,86	2,87	,214

REGRESSION

```

/VARIABLES= LogP LogS HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,99	,95	3,69

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1185,19	3	395,06	29,03	,135
Residual	13,61	1	13,61		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients		t	Sig.
	B	Std. Error	Beta			
(Constant)	224,02	97,18		,00	2,31	,148
LogP	4,70	5,37		,24	,87	,542
LogS	-8,01	10,18		-,22	-,79	,575
HOMO	31,79	8,54		,60	3,72	,167

REGRESSION

```

/VARIABLES= LogP LogS LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	,99	1,60

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1196,23	3	398,74	155,44	,059
Residual	2,57	1	2,57		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-20,99	15,70	,00	-1,34	,313
LogP	26,79	3,13	1,39	8,55	,074
LogS	14,20	5,63	,40	2,52	,240
LUMO	84,62	9,60	,56	8,82	,072

REGRESSION

```

/VARIABLES= MW Total_E Ele_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	,99	2,04

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1194,65	3	398,22	95,85	,075
Residual	4,15	1	4,15		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-71,49	32,20	,00	-2,22	,157
MW	1,17	,40	3,07	2,89	,212
Total_E	,10	,02	3,09	4,29	,146
Ele_E	,00	,00	-,97	-1,34	,408

REGRESSION

```

/VARIABLES= MW Total_E HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	,99	,96	3,40

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1187,25	3	395,75	34,26	,125
Residual	11,55	1	11,55		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-111,42	31,56	,00	-3,53	,072
MW	1,49	1,21	3,92	1,23	,435
Total_E	,10	,10	2,97	,94	,519
HF	,02	,26	,02	,07	,957

REGRESSION

```

/VARIABLES= MW Total_E HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	,72

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1198,28	3	399,43	766,35	,027
Residual	,52	1	,52		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	24,70	30,06	,00	,82	,498
MW	1,15	,13	3,03	8,74	,073
Total_E	,07	,01	2,28	7,18	,088
HOMO	12,61	2,73	,24	4,61	,136

REGRESSION

```

/VARIABLES= MW Total_E LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	1,06

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1197,67	3	399,22	354,83	,039
Residual	1,13	1	1,13		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-98,39	6,32	,00	-15,56	,004
MW	1,81	,16	4,74	11,13	,057
Total_E	,13	,01	3,83	8,87	,071
LUMO	17,12	5,61	,11	3,05	,202

REGRESSION

```

/VARIABLES= MW Ele_E HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,93	4,60

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1177,66	3	392,55	18,57	,169
Residual	21,14	1	21,14		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-74,04	72,91	,00	-1,02	,417
MW	,24	,65	,62	,36	,779
Ele_E	,00	,00	-,30	-,17	,891
HF	,24	,14	,24	1,68	,342

REGRESSION

```

/VARIABLES= MW Ele_E HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	,99	,97	2,83

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1190,77	3	396,92	49,44	,104
Residual	8,03	1	8,03		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	225,98	104,59	,00	2,16	,163
MW	1,05	,54	2,75	1,94	,303
Ele_E	,01	,00	2,47	1,55	,361
HOMO	40,64	13,52	,77	3,01	,204

REGRESSION

```

/VARIABLES= MW Ele_E LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,97	,89	5,66

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1166,78	3	388,93	12,14	,207
Residual	32,02	1	32,02		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	26,96	112,87	,00	,24	,833
MW	-1,22	1,19	-3,21	-1,03	,491
Ele_E	-,01	,01	-4,28	-1,34	,408
LUMO	-50,55	41,04	-,33	-1,23	,434

REGRESSION

```

/VARIABLES= MW HF HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	,99	,97	3,09

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1189,23	3	396,41	41,44	,114
Residual	9,57	1	9,57		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	55,31	126,01	,00	,44	,704
MW	,27	,08	,71	3,41	,182
HF	,16	,12	,16	1,36	,403
HOMO	13,76	12,19	,26	1,13	,461

REGRESSION

```

/VARIABLES= MW HF LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,93	4,50

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1178,55	3	392,85	19,40	,165
Residual	20,25	1	20,25		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-79,28	32,79	,00	-2,42	,137
MW	,34	,05	,90	6,43	,098
HF	,26	,14	,26	1,85	,315
LUMO	6,00	21,91	,04	,27	,830

REGRESSION

```

/VARIABLES= MW LUMO HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	,22

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1198,75	3	399,58	8344,81	,008
Residual	,05	1	,05		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	203,60	7,54	,00	26,99	,001
MW	,19	,00	,50	39,02	,016
LUMO	-25,91	1,08	-,17	-23,89	,027
HOMO	31,01	,72	,59	43,25	,015

REGRESSION

```

/VARIABLES= Volume Total_E Ele_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,99	,95	3,91

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1183,49	3	394,50	25,76	,144
Residual	15,31	1	15,31		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	167,51	143,62	,00	1,17	,364
Volume	-,65	,52	-,207	-1,24	,432
Total_E	,09	,04	,267	2,06	,288
Ele_E	-,02	,01	-,568	-2,09	,284

REGRESSION

```

/VARIABLES= Volume Total_E HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,91	5,08

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1172,98	3	390,99	15,15	,186
Residual	25,82	1	25,82		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-87,90	37,28	,00	-2,36	,142
Volume	,10	,30	,33	,35	,786
Total_E	-,02	,03	-,58	-,62	,647
HF	,28	,19	,28	1,48	,379

REGRESSION

```

/VARIABLES= Volume Total_E HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,99	,94	4,22

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1180,99	3	393,66	22,10	,155
Residual	17,81	1	17,81		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	634,86	402,75	,00	1,58	,256
Volume	-,64	,57	-2,05	-1,13	,463
Total_E	-,06	,04	-1,92	-1,48	,379
HOMO	64,94	34,14	1,23	1,90	,308

REGRESSION

```

/VARIABLES= Volume Total_E LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	,99	,96	3,37

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1187,41	3	395,80	34,76	,124
Residual	11,39	1	11,39		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-188,13	28,06	,00	-6,70	,022
Volume	,62	,18	1,99	3,37	,184
Total_E	,03	,02	,92	1,62	,353
LUMO	-46,05	18,46	-,30	-2,49	,243

REGRESSION

```

/VARIABLES= Volume Ele_E HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,92	4,86

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1175,20	3	391,73	16,60	,178
Residual	23,60	1	23,60		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-37,47	95,97	,00	-,39	,734
Volume	-,06	,48	-,18	-,12	,926
Ele_E	,00	,00	-1,10	-,72	,604
HF	,23	,15	,23	1,55	,365

REGRESSION

```

/VARIABLES= Volume Ele_E HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	,76

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1198,23	3	399,41	694,74	,028
Residual	,57	1	,57		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	574,09	57,93	,00	9,91	,010
Volume	-,91	,11	-,290	-8,08	,078
Ele_E	-,01	,00	-,307	-9,88	,064
HOMO	46,06	3,91	,87	11,77	,054

REGRESSION

```

/VARIABLES= Volume Ele_E LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	,99	,97	3,10

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1189,22	3	396,41	41,36	,114
Residual	9,58	1	9,58		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-377,27	121,26	,00	-3,11	,090
Volume	1,30	,54	4,16	2,42	,249
Ele_E	,01	,00	3,02	1,81	,321
LUMO	-70,22	25,85	-,46	-2,72	,225

REGRESSION

```

/VARIABLES= Volume HF HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,97	,88	5,95

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1163,34	3	387,78	10,94	,218
Residual	35,46	1	35,46		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-72,81	352,62	,00	-,21	,856
Volume	,27	,18	,87	1,55	,365
HF	,19	,25	,19	,77	,581
HOMO	2,88	32,75	,05	,09	,944

REGRESSION

```

/VARIABLES= Volume HF LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,94	4,33

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1180,05	3	393,35	20,97	,159
Residual	18,75	1	18,75		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-132,66	38,22	,00	-3,47	,074
Volume	,31	,05	,99	6,69	,095
HF	,15	,14	,15	1,09	,472
LUMO	-21,73	22,84	-,14	-,95	,516

REGRESSION

```

/VARIABLES= Volume LUMO HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	1,11

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1197,56	3	399,19	322,06	,041
Residual	1,24	1	1,24		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	116,49	49,37	,00	2,36	,142
Volume	,20	,03	,63	7,61	,083
LUMO	-36,22	5,42	-,24	-6,69	,094
HOMO	24,87	4,38	,47	5,67	,111

REGRESSION

```

/VARIABLES= Area Total_E Ele_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	1,10

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1197,58	3	399,19	328,18	,041
Residual	1,22	1	1,22		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-226,48	41,91	,00	-5,40	,033
Area	1,33	,24	3,36	5,56	,113
Total_E	,07	,01	2,14	7,50	,084
Ele_E	,00	,00	,26	,47	,722

REGRESSION

```

/VARIABLES= Area Total_E HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	,36

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1198,67	3	399,56	3006,56	,013
Residual	,13	1	,13		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-241,76	11,26	,00	-21,47	,002
Area	1,54	,10	3,90	14,73	,043
Total_E	,10	,01	2,93	11,24	,056
HF	-,10	,03	-,10	-3,19	,194

REGRESSION

```

/VARIABLES= Area Total_E HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	1,20

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1197,36	3	399,12	278,08	,044
Residual	1,44	1	1,44		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-192,39	84,52	,00	-2,28	,151
Area	1,20	,23	3,02	5,21	,121
Total_E	,07	,02	2,08	4,20	,149
HOMO	1,13	6,28	,02	,18	,887

REGRESSION

```

/VARIABLES= Area Total_E LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	1,22

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1197,32	3	399,11	269,39	,045
Residual	1,48	1	1,48		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-207,44	11,44	,00	-18,13	,003
Area	1,23	,13	3,11	9,69	,065
Total_E	,07	,01	2,15	6,65	,095
LUMO	,06	5,80	,00	,01	,993

REGRESSION

/VARIABLES= Area Ele_E HF
 /DEPENDENT= IC50depigmentasi
 /METHOD=ENTER
 /STATISTICS=COEFF R ANOVA.

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,99	,95	3,98

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1182,95	3	394,32	24,87	,146
Residual	15,85	1	15,85		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-156,52	152,36	,00	-1,03	,412
Area	,58	,81	1,45	,71	,606
Ele_E	,00	,01	,53	,26	,838
HF	,22	,12	,22	1,84	,316

REGRESSION

/VARIABLES= Area Ele_E HOMO
 /DEPENDENT= IC50depigmentasi
 /METHOD=ENTER
 /STATISTICS=COEFF R ANOVA.

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	,98	2,23

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1193,82	3	397,94	79,94	,082
Residual	4,98	1	4,98		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-5,67	99,86	,00	-,06	,960
Area	1,23	,48	3,10	2,58	,235
Ele_E	,01	,00	2,62	2,09	,281
HOMO	28,67	7,95	,54	3,61	,172

REGRESSION

```

/VARIABLES= Area Ele_E LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,97	,95	,78	8,11

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1133,04	3	377,68	5,74	,295
Residual	65,76	1	65,76		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-68,72	609,84	,00	-,11	,921
Area	-,10	3,60	-,25	-,03	,982
Ele_E	,00	,03	-1,26	-,14	,913
LUMO	-20,36	83,05	-,13	-,25	,847

REGRESSION

```

/VARIABLES= Area HF HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	,99	,97	3,15

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1188,86	3	396,29	39,86	,116
Residual	9,94	1	9,94		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	2,14	143,70	,00	,01	,989
Area	,30	,09	,75	3,34	,185
HF	,16	,12	,16	1,30	,417
HOMO	11,04	13,18	,21	,84	,556

REGRESSION

```

/VARIABLES= Area HF LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,99	,94	4,09

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1182,07	3	394,02	23,56	,150
Residual	16,73	1	16,73		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-114,67	33,88	,00	-3,38	,077
Area	,36	,05	,92	7,09	,089
HF	,22	,13	,22	1,73	,333
LUMO	2,19	20,09	,01	,11	,931

REGRESSION

```

/VARIABLES= Area LUMO HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	,31

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1198,70	3	399,57	4187,61	,011
Residual	,10	1	,10		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	162,42	12,03	,00	13,50	,005
Area	,21	,01	,54	27,64	,023
LUMO	-25,63	1,53	-,17	-16,72	,038
HOMO	28,72	1,08	,54	26,48	,024

REGRESSION

```

/VARIABLES= MW Volume Total_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	,99	1,66

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1196,06	3	398,69	145,40	,061
Residual	2,74	1	2,74		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-122,12	7,91	,00	-15,44	,004
MW	1,35	,25	3,56	5,39	,117
Volume	,16	,09	,50	1,80	,323
Total_E	,10	,02	3,10	5,31	,119

REGRESSION

```

/VARIABLES= MW Volume Ele_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,97	,93	,73	8,93

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1118,98	3	372,99	4,67	,325
Residual	79,82	1	79,82		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-178,95	1211,38	,00	-,15	,896
MW	,37	4,86	,97	,08	,952
Volume	,35	3,49	1,12	,10	,937
Ele_E	,00	,06	1,12	,05	,970

REGRESSION

```

/VARIABLES= MW Volume HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,93	4,46

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1178,90	3	392,97	19,74	,164
Residual	19,90	1	19,90		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-91,34	27,59	,00	-3,31	,080
MW	,26	,29	,69	,89	,536
Volume	,07	,24	,24	,31	,811
HF	,24	,14	,24	1,74	,332

REGRESSION

```

/VARIABLES= MW Volume HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	,99	1,87

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1195,29	3	398,43	113,63	,069
Residual	3,51	1	3,51		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	394,74	110,96	,00	3,56	,071
MW	,60	,15	1,58	3,89	,160
Volume	-,43	,16	-1,37	-2,61	,233
HOMO	44,20	9,46	,84	4,67	,134

REGRESSION

```

/VARIABLES= MW Volume LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,99	,94	4,08

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1182,14	3	394,05	23,66	,150
Residual	16,66	1	16,66		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-211,41	49,91	,00	-4,24	,051
MW	-,52	,43	-1,36	-1,21	,439
Volume	,77	,37	2,47	2,09	,284
LUMO	-62,90	32,26	-,41	-1,95	,302

REGRESSION

```

/VARIABLES= Volume Area Total_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	1,19

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1197,38	3	399,13	281,08	,044
Residual	1,42	1	1,42		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-208,44	11,77	,00	-17,72	,003
Volume	-,02	,08	-,05	-,21	,869
Area	1,25	,17	3,17	7,55	,084
Total_E	,07	,01	2,16	6,99	,090

REGRESSION

```

/VARIABLES= Volume Area Ele_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,93	4,51

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1178,42	3	392,81	19,27	,166
Residual	20,38	1	20,38		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-851,30	453,41	,00	-1,88	,201
Volume	1,26	,81	4,04	1,56	,364
Area	2,90	1,69	7,32	1,71	,336
Ele_E	,03	,02	10,36	1,57	,361

REGRESSION

```

/VARIABLES= Volume Area HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,99	,94	4,11

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1181,93	3	393,98	23,36	,151
Residual	16,87	1	16,87		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-116,79	25,19	,00	-4,64	,044
Volume	,02	,26	,05	,06	,962
Area	,35	,33	,88	1,06	,482
HF	,22	,12	,22	1,79	,325

REGRESSION

```

/VARIABLES= Volume Area HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	,99	1,54

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1196,43	3	398,81	168,21	,057
Residual	2,37	1	2,37		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	265,55	75,78	,00	3,50	,073
Volume	-,43	,13	-1,37	-3,21	,192
Area	,68	,14	1,71	4,79	,131
HOMO	37,11	6,91	,70	5,37	,117

REGRESSION

```

/VARIABLES= Volume Area LUMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,92	4,82

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1175,55	3	391,85	16,85	,177
Residual	23,25	1	23,25		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-170,78	33,87	,00	-5,04	,037
Volume	,91	,66	2,90	1,37	,401
Area	-,70	,80	-1,76	-,88	,542
LUMO	-68,94	48,21	-,45	-1,43	,388

REGRESSION

```

/VARIABLES= MW Area Total_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	1,22

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1197,32	3	399,11	269,64	,045
Residual	1,48	1	1,48		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-206,35	35,85	,00	-5,76	,029
MW	,02	,61	,05	,03	,979
Area	1,22	,46	3,07	2,62	,232
Total_E	,07	,02	2,17	3,78	,165

REGRESSION

```

/VARIABLES= MW Area Ele_E
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	1,00	,86

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1198,07	3	399,36	545,51	,031
Residual	,73	1	,73		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-530,61	47,15	,00	-11,25	,008
MW	-2,48	,26	-6,52	-9,71	,065
Area	3,99	,38	10,08	10,45	,061
Ele_E	,01	,00	2,60	5,46	,115

REGRESSION

```

/VARIABLES= MW Area HF
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	,99	,96	3,38

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1187,39	3	395,80	34,68	,124
Residual	11,41	1	11,41		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-200,70	121,43	,00	-1,65	,240
MW	-,94	1,36	-,248	-,70	,613
Area	1,35	1,42	,342	,95	,515
HF	,14	,15	,14	,99	,503

REGRESSION

```

/VARIABLES= MW Area HOMO
/DEPENDENT= IC50depigmentasi
/METHOD=ENTER
/STATISTICS=COEFF R ANOVA.

```

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
,99	,98	,93	4,53

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1178,28	3	392,76	19,14	,166
Residual	20,52	1	20,52		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-844,91	1736,48	,00	-,49	,675
MW	-4,46	8,09	-,1171	-,55	,679
Area	5,22	9,03	,1318	,58	,666
HOMO	-30,40	95,82	-,58	-,32	,804

REGRESSION

/VARIABLES= MW Area LUMO
 /DEPENDENT= IC50depigmentasi
 /METHOD=ENTER
 /STATISTICS=COEFF R ANOVA.

Model Summary (IC50depigmentasi)

R	R Square	Adjusted R Square	Std. Error of the Estimate
1,00	1,00	,99	1,42

ANOVA (IC50depigmentasi)

	Sum of Squares	df	Mean Square	F	Sig.
Regression	1196,79	3	398,93	198,31	,052
Residual	2,01	1	2,01		
Total	1198,80	4			

Coefficients (IC50depigmentasi)

	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-347,11	35,54	,00	-9,77	,010
MW	-2,32	,41	-6,08	-5,68	,111
Area	2,81	,43	7,09	6,60	,096
LUMO	-21,83	6,83	-,14	-3,20	,193

Lampiran 3. Hasil Seleksi Model Persamaan dengan nilai R yang memenuhi

No	Deskriptor	R	R ²	Adjusted R ²	SEE	F	Sig
1	Log P+MW	0,97	0,95	0,89	5,69	0,92	0,054
2	Log P+Vol	0,99	0,98	0,96	3,41	2,66	0,019
3	Log P+Area	0,98	0,96	0,92	4,97	1,23	0,041
4	LogS+MW	0,96	0,92	0,85	6,78	0,63	0,077
5	LogS+Vol	0,97	0,94	0,89	5,74	0,90	0,055
6	LogS+Area	0,97	0,94	0,88	5,99	0,83	0,060
7	LogP+Total_E	0,96	0,93	0,86	6,49	0,70	0,070
8	LogP+Ele_E	0,98	0,96	0,93	4,59	1,45	0,035
9	LogP+Homo	0,99	0,98	0,96	3,32	2,81	0,018
10	LogP+Lumo	0,99	0,98	0,97	3,07	3,29	0,016
11	LogS+Ele_E	0,97	0,94	0,87	6,15	0,78	0,063
12	LogS+HF	0,95	0,91	0,82	7,43	0,52	0,092
13	LogS+Homo	0,99	0,98	0,96	3,47	2,57	0,020
14	MW+Total_E	1	0,99	0,98	2,41	5,38	0,010
15	MW+Ele_E	0,97	0,93	0,87	6,35	0,73	0,067
16	MW+HF	0,99	0,98	0,96	3,3	2,85	0,018
17	MW+Homo	0,99	0,98	0,95	3,7	2,25	0,023
18	MW+Lumo	0,96	0,93	0,85	6,69	0,65	0,075
19	Vol+Total_E	0,97	0,93	0,86	6,41	0,71	0,069
20	Vol+Ele_E	0,97	0,93	0,87	6,34	0,73	0,067
21	Vol+HF	0,98	0,97	0,94	4,23	1,71	0,030
22	Vol+Homo	0,98	0,95	0,91	5,32	1,06	0,047
23	Vol+Lumo	0,98	0,97	0,93	4,53	1,48	0,034
24	Area+Total_E	1	1	1	0,86	42,53	0,001
25	Area+Ele_E	0,97	0,94	0,88	5,9	0,85	0,058
26	Area+HF	0,99	0,99	0,97	2,91	3,68	0,014
27	Area+Homo	0,99	0,98	0,96	3,66	2,31	0,022
28	Area+Lumo	0,97	0,94	0,89	5,79	0,89	0,056
29	Log P+MW+Vol	1	1	1	0,24	31,27	0,009
30	Log P+MW+Area	1	1	1	0,19	52,08	0,007
31	Log P+Vol+Area	1	1	1	0,26	27,49	0,010
32	LogS+MW+Vol	0,98	0,95	0,81	7,61	0,03	0,278
33	LogS+MW+Area	1	0,99	0,97	2,89	0,22	0,106
34	LogP+LogS+MW	0,98	0,96	0,84	6,89	0,04	0,252
35	LogP+LogS+Vol	0,99	0,99	0,95	3,73	0,13	0,137
36	LogP+LogS+Area	0,99	0,97	0,89	5,79	0,05	0,212

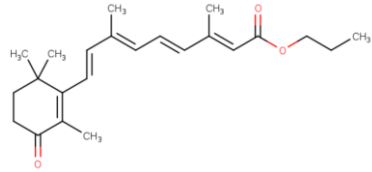
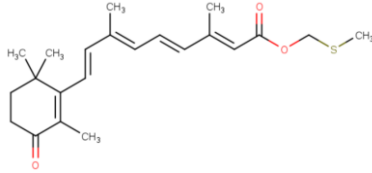
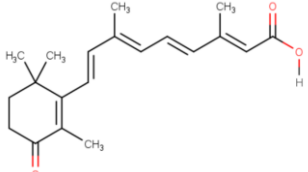
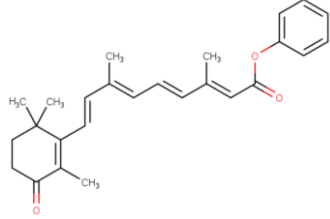
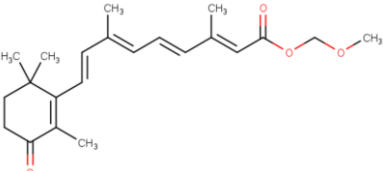
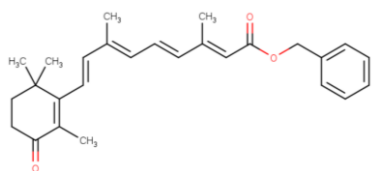
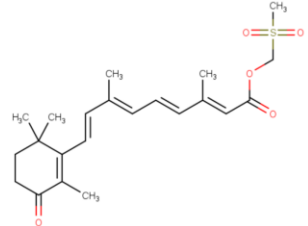
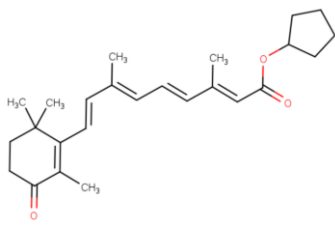
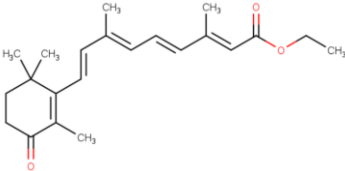
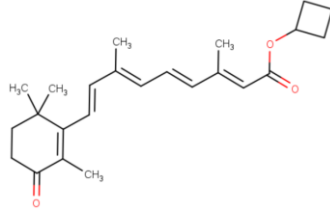
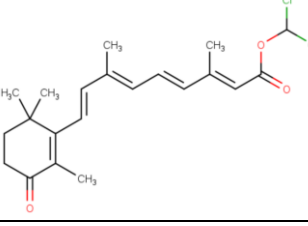
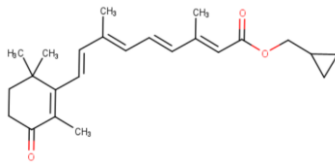
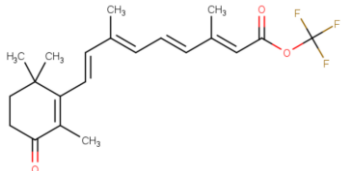
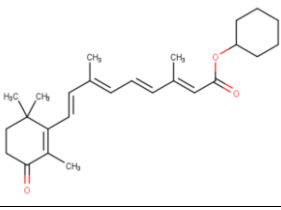
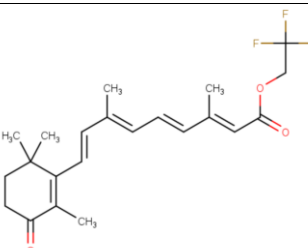
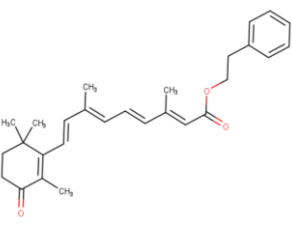
37	LogP+Total_E+Ele_e	1	1	0,99	1,79	0,58	0,066
38	LogP+Total_e+HF	0,99	0,98	0,91	5,07	0,07	0,186
39	LogP+Total_E+Homo	1	1	1	1,09	1,56	0,040
40	LogP+Total_e+Lumo	0,99	0,98	0,94	4,28	0,10	0,157
41	LogP+Ele_E+HF	0,99	0,99	0,95	3,86	0,12	0,142
42	LogP+Ele_E+Homo	1	1	1	0,65	4,34	0,024
43	LogP+Ele_E+Lumo	0,99	0,98	0,94	4,27	0,10	0,157
44	LogP+HF+Homo	0,99	0,99	0,96	3,58	0,14	0,131
45	LogP+HF+Lumo	1	1	0,99	2,05	0,44	0,075
46	LogP+Homo+Lumo	1	0,99	0,97	2,83	0,23	0,104
47	LogS+Total_E+Ele_e	1	1	0,99	1,38	0,97	0,051
48	LogS+Total_e+HF	0,99	0,98	0,94	4,33	0,10	0,159
49	LogS+Total_E+Homo	0,99	0,98	0,93	4,54	0,09	0,167
50	LogS+Total_e+Lumo	0,94	0,89	0,54	11,68	0,01	0,421
51	LogS+Ele_E+HF	1	0,99	0,97	3,04	0,20	0,112
52	LogS+Ele_E+Homo	0,99	0,98	0,94	4,3	0,10	0,158
53	LogS+HF+Homo	0,99	0,99	0,95	3,82	0,13	0,140
54	LogS+HF+Lumo	1	0,99	0,97	3,03	0,20	0,111
55	LogS+Homo+Lumo	0,99	0,99	0,94	4,1	0,11	0,150
56	LogP+LogS+Ele_E	0,99	0,98	0,9	5,44	0,06	0,199
57	LogP+LogS+HF	0,99	0,98	0,93	4,68	0,08	0,172
58	LogP+LogS+Homo	0,99	0,99	0,95	3,69	0,13	0,135
59	LogP+LogS+Lumo	1	1	0,99	1,6	0,72	0,059
60	MW+Total_E+Ele_e	1	1	0,99	2,04	0,44	0,075
61	MW+Total_e+HF	1	0,99	0,96	3,4	0,16	0,125
62	MW+Total_E+Homo	1	1	1	0,72	3,55	0,027
63	MW+Total_e+Lumo	1	1	1	1,06	1,64	0,039
64	MW+Ele_E+HF	0,99	0,98	0,93	4,6	0,09	0,169
65	MW+Ele_E+Homo	1	0,99	0,97	2,83	0,23	0,104
66	MW+Ele_E+Lumo	0,99	0,97	0,89	5,66	0,06	0,207
67	MW+HF+Homo	1	0,99	0,97	3,09	0,19	0,114
68	MW+HF+Lumo	0,99	0,98	0,93	4,5	0,09	0,165
69	MW+Homo+Lumo	1	1	1	0,22	38,69	0,008
70	Vol+Total_E+Ele_e	0,99	0,99	0,95	3,91	0,12	0,144
71	Vol+Total_e+HF	0,99	0,98	0,91	5,08	0,07	0,186
72	Vol+Total_E+Homo	0,99	0,99	0,94	4,22	0,10	0,155
73	Vol+Total_e+Lumo	1	0,99	0,96	3,37	0,16	0,124
74	Vol+Ele_E+HF	0,99	0,98	0,92	4,86	0,08	0,178

75	Vol+Ele_E+Homo	1	1	1	0,76	3,22	0,028
76	Vol+Ele_E+Lumo	1	0,99	0,97	3,1	0,19	0,114
77	Vol+HF+Homo	0,99	0,97	0,88	5,95	0,05	0,218
78	Vol+HF+Lumo	0,99	0,98	0,94	4,33	0,10	0,159
79	Vol+Homo+Lumo	1	1	1	1,11	1,49	0,041
80	Area+Total_E+Ele_e	1	1	1	1,1	1,52	0,041
81	Area+Total_e+HF	1	1	1	0,36	139,11	0,013
82	Area+Total_E+Homo	1	1	1	1,2	1,29	0,044
83	Area+Total_e+Lumo	1	1	1	1,22	1,25	0,045
84	Area+Ele_E+HF	0,99	0,99	0,95	3,98	0,12	0,146
85	Area+Ele_E+Homo	1	1	0,98	2,23	0,37	0,082
86	Area+HF+Homo	1	0,99	0,97	3,15	0,18	0,116
87	Area+HF+Lumo	0,99	0,99	0,94	4,09	0,11	0,150
88	Area+Homo+Lumo	1	1	1	0,31	19,41	0,011
89	MW+Vol+Total_E	1	1	0,99	1,66	0,67	0,061
90	MW+Vol+HF	0,99	0,98	0,93	4,46	0,09	0,164
91	MW+Vol+Homo	1	1	0,99	1,87	0,53	0,069
92	MW+Vol+Lumo	0,99	0,99	0,94	4,08	0,11	0,150
93	Vol+Area+Total_E	1	1	1	1,19	1,30	0,044
94	Vol+Area+Ele_E	0,99	0,98	0,93	4,51	0,09	0,166
95	Vol+Area+HF	0,99	0,99	0,94	4,11	0,11	0,151
96	Vol+Area+Homo	1	1	0,99	1,54	0,78	0,057
97	Vol+Area+Lumo	0,99	0,98	0,92	4,82	0,08	0,177
98	MW+Area+Total_E	1	1	1	1,22	1,25	0,045
99	MW+Area+Ele_E	1	1	1	0,86	2,53	0,031
100	MW+Area+HF	1	0,99	0,96	3,38	0,16	0,124
101	MW+Area+Homo	0,99	0,98	0,93	4,53	0,09	0,166
102	MW+Area+Lumo	1	1	0,99	1,42	0,92	0,052

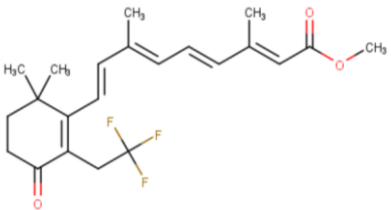
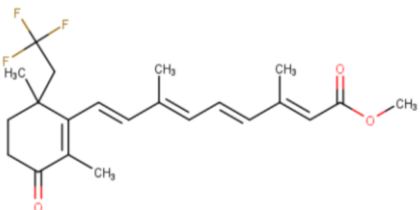
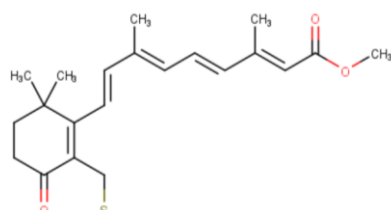
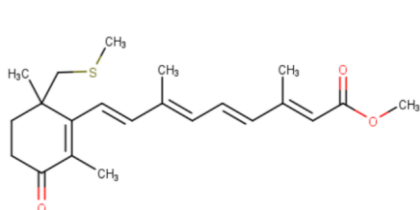
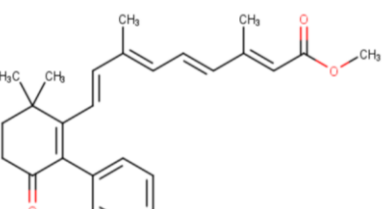
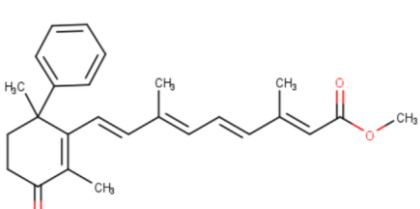
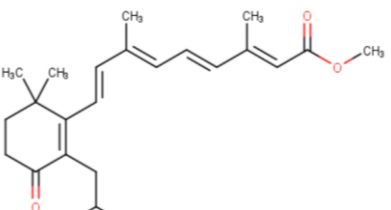
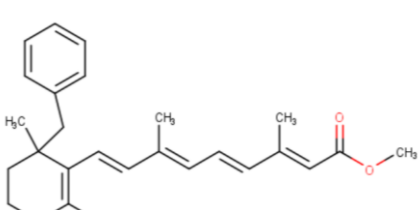
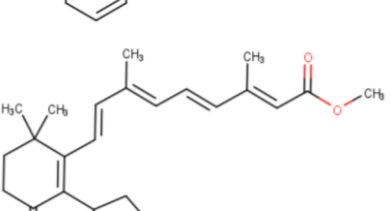
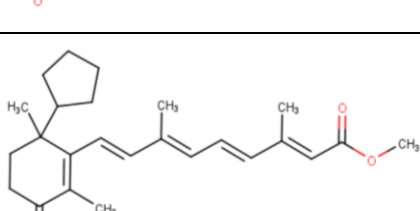
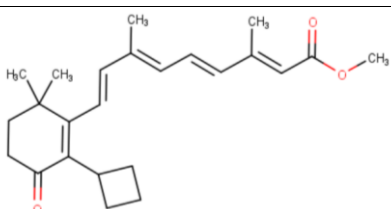
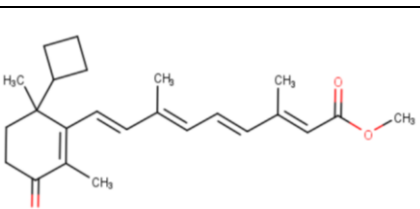
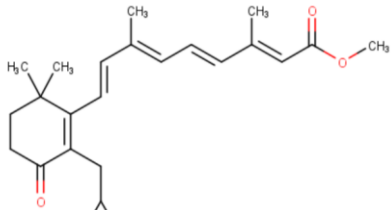
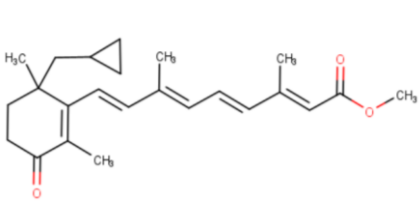
Lampiran 4. Hasil Validasi Silang

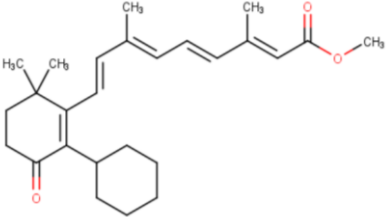
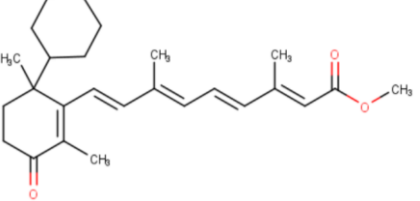
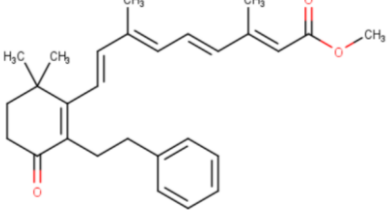
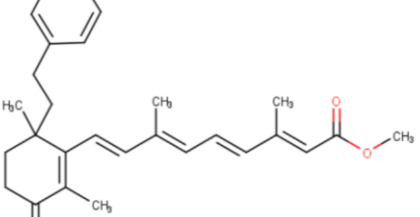
Senyawa	IC50 depigmentasi (Y)	koef.	MW		HOMO		LUMO		y'	y-y'	(y-y')^2	y rata	y-y rata	(y-y rata)^2	q^2
			koef.	nilai	koef.	nilai	koef.	nilai							
RA	2	199,22	300	0,19	-8,93	30,64	-0,699	-25,63	0,52017	1,47983	2,19	12,7	-10,7	114,49	0,96
DIV 404	20	213,06	361	0,19	-8,52	31,48	-0,462	-19,75	22,5649	-2,5649	6,58	12,7	7,3	53,29	
DIV 408	0,5	280,36	328	0,15	-9,14	38,47	-0,692	-29,07	-1,93936	2,43936	5,95	12,7	-12,2	148,84	
DIV 857	1	206,5	300	0,19	-8,99	31,27	-0,744	-26,41	2,03174	-1,03174	1,06	12,7	-11,7	136,89	
DIV 736	40	196,66	407	0,16	-8,37	28,57	-0,715	-15,88	34,0033	5,9967	35,96	12,7	27,3	745,29	
	12,7										51,74			1198,8	

Lampiran 5. Gambaran Struktur Senyawa Baru Turunan Retinoid

No.	Senyawa Turunan Baru	No.	Senyawa Turunan Baru
#1 R1		#9 R1	
#2 R1		#10 R1	
#3 R1		#11 R1	
#4 R1		#12 R1	
#5 R1		#13 R1	
#6 R1		#14 R1	
#7 R1		#15 R1	
#8 R1		#16 R1	

No.	Senyawa Turunan Baru	No.	Senyawa Turunan Baru
#17 R2		#33 R3	
#18 R2		#34 R3	
#19 R2		#35 R3	
#20 R2		#36 R3	
#21 R2		#37 R3	
#22 R2		#38 R3	
23 R2		#39 R3	

#24 R2		#40 R3	
#25 R2		#41 R3	
#26 R2		#42 R3	
#27 R2		#43 R3	
#28 R2		#44 R3	
#29 R2		#45 R3	
#30 R2		#46 R3	

#31 R2		#47 R3	
#32 R2		#48 R3	

Lampiran 6. Hasil prediksi IC50 depigmentasi senyawa modifikasi pada R1 atau R2 atau R3

Senyawa turunan	Substituen	Kons.	Deskriptor						IC50 depigmentasi prediksi
			MW		Homo		Lumo		
			Koef.	nilai	Koef.	nilai	Koef.	nilai	
acuan (methyl 4-oxoretinoate)	CH3	203,6	0,19	328	31,01	-9,14	-25,91	-0,69	0,4
#1 R1	C3H7	203,6	0,19	357	31,01	-9,11	-25,91	-0,66	6,1
#2 R1	H	203,6	0,19	314	31,01	-9,20	-25,91	-0,82	-0,7
#3 R1	CH2OCH3	203,6	0,19	359	31,01	-9,14	-25,91	-0,72	7,0
#4 R1	CH2SO2CH3	203,6	0,19	407	31,01	-8,85	-25,91	-1,31	40,4
#5 R1	C2H5	203,6	0,19	343	31,01	-9,11	-25,91	-0,67	3,7
#6 R1	CHCl2	203,6	0,19	397	31,01	-9,34	-25,91	-1,06	16,9
#7 R1	CF3	203,6	0,19	382	31,01	-9,41	-25,91	-1,18	14,9
#8 R1	CH2CF3	203,6	0,19	396	31,01	-9,26	-25,91	-0,94	15,9
#9 R1	CH2SCH3	203,6	0,19	375	31,01	-8,56	-25,91	-0,77	29,3
#10 R1	C6H5	203,6	0,19	391	31,01	-9,18	-25,91	-0,83	14,8
#11 R1	CH2-C6H5	203,6	0,19	405	31,01	-9,18	-25,91	-0,72	14,5
#12 R1	siklo-C5H9	203,6	0,19	383	31,01	-9,10	-25,91	-0,66	11,3
#13 R1	siklo-C4H7	203,6	0,19	369	31,01	-9,12	-25,91	-0,69	8,9
#14 R1	CH2siklo-C3H5	203,6	0,19	369	31,01	-9,14	-25,91	-0,68	7,9
#15 R1	siklo-C6H11	203,6	0,19	397	31,01	-9,09	-25,91	-0,64	13,8
#16 R1	CH2CH2-C6H5	203,6	0,19	419	31,01	-9,15	-25,91	-0,71	17,8
#17 R2	C3H7	203,6	0,19	357	31,01	-9,15	-25,91	-0,71	6,0
#18 R2	H	203,6	0,19	314	31,01	-9,18	-25,91	-0,79	-0,9
#19 R2	CH2OCH3	203,6	0,19	359	31,01	-9,01	-25,91	-0,64	9,0
#20 R2	CH2SO2CH3	203,6	0,19	407	31,01	-8,69	-25,91	-0,97	36,5
#21 R2	C2H5	203,6	0,19	343	31,01	-9,15	-25,91	-0,72	3,6
#22 R2	CHCl2	203,6	0,19	397	31,01	-9,30	-25,91	-0,99	16,3
#23 R2	CF3	203,6	0,19	382	31,01	-9,26	-25,91	-0,91	12,7
#24 R2	CH2CF3	203,6	0,19	396	31,01	-9,23	-25,91	-0,91	16,3
#25 R2	CH2SCH3	203,6	0,19	375	31,01	-8,37	-25,91	-0,86	37,5
#26 R2	C6H5	203,6	0,19	391	31,01	-9,08	-25,91	-0,67	13,7
#27 R2	CH2-C6H5	203,6	0,19	405	31,01	-9,06	-25,91	-0,80	20,3
#28 R2	siklo-C5H9	203,6	0,19	383	31,01	-9,09	-25,91	-0,73	13,5
#29 R2	siklo-C4H7	203,6	0,19	369	31,01	-9,13	-25,91	-0,71	8,9
#30 R2	CH2siklo-C3H5	203,6	0,19	369	31,01	-9,12	-25,91	-0,77	10,7
#31 R2	siklo-C6H11	203,6	0,19	397	31,01	-9,11	-25,91	-0,67	13,9
#32 R2	CH2CH2-C6H5	203,6	0,19	419	31,01	-9,02	-25,91	-0,70	21,7
#33 R3	C3H7	203,6	0,19	357	31,01	-9,17	-25,91	-0,69	4,8
#34 R3	H	203,6	0,19	314	31,01	-9,13	-25,91	-0,73	-1,0
#35 R3	CH2OCH3	203,6	0,19	359	31,01	-9,00	-25,91	-0,76	12,5
#36 R3	CH2SO2CH3	203,6	0,19	407	31,01	-8,90	-25,91	-1,18	35,5
#37 R3	C2H5	203,6	0,19	343	31,01	-9,15	-25,91	-0,69	3,0
#38 R3	CHCl2	203,6	0,19	397	31,01	-9,06	-25,91	-0,72	16,8

#39 R3	CF3	203,6	0,19	382	31,01	-9,16	-25,91	-0,83	13,7
#40 R3	CH2CF3	203,6	0,19	396	31,01	-9,31	-25,91	-0,91	13,8
#41 R3	CH2SCH3	203,6	0,19	375	31,01	-8,60	-25,91	-0,66	25,2
#42 R3	C6H5	203,6	0,19	391	31,01	-9,08	-25,91	-0,66	13,5
#43 R3	CH2-C6H5	203,6	0,19	405	31,01	-9,19	-25,91	-0,70	13,7
#44 R3	siklo-C5H9	203,6	0,19	383	31,01	-9,09	-25,91	-0,74	13,6
#45 R3	siklo-C4H7	203,6	0,19	369	31,01	-9,12	-25,91	-0,71	9,2
#46 R3	CH2siklo-C3H5	203,6	0,19	369	31,01	-9,15	-25,91	-0,71	8,3
#47 R3	siklo-C6H11	203,6	0,19	397	31,01	-9,10	-25,91	-0,71	15,1
#48 R3	CH2CH2-C6H5	203,6	0,19	419	31,01	-9,12	-25,91	-0,71	18,8