APPENDICES

APPENDIX 1

Calculation for sample yield

Example,

Yield of hexane soluble fraction (%) = $\underline{\text{Weight of hexane soluble fraction obtained}}$ x100

Weight of aqueous ethanol extract used

$$=$$
 3.85 (g) x 100

52.29 (g)

= 7.36 %

Statistical analysis for percentage of neurite bearing cells of aqueous ethanol extract by using one way ANOVA.

ANOVA table

Source of variation	Sum of squares	Df	Mean square	F-ratio	P-value
Between groups	32.451	5	6.4902	4.43	0.0491
Within groups	8.79665	6	1.46611		
Total	41.2476	11			

The ANOVA table decomposes the variance into two components: a between-group component and a within-group component. The F-ratio, which in this case equals 4.43, is a ratio of the between-group estimate to the within-group estimate. Since the P-value of the F-test is less than 0.05, there is a statistically significant difference between the mean of neurite bearing cells from one level of concentration to another at the 95.0% confidence level. To determine which means are significantly different from which others, Multiple Range Tests were carried out.

Treatment concentration (µg/ml)	replicate	Mean	Homogenous groups
negative control	2	19.91	XX
positive control (NGF)	2	23.01	X
10	2	22.90	X
25	2	22.53	XX
50	2	20.87	XXX
100	2	18.63	X

Contrast (concentrations)	Difference	+/- Limits
negative control – positive control	-3.09500*	2.96280
negative control - 10µg/ml	-2.99000*	2.96280
negative control - 25µg/ml	-2.62000	2.96280
negative control - 50μ/ml	-0.96000	2.96280
negative control - 100μg/ml	1.28000	2.96280
positive control - 10µg/ml	0.10500	2.96280
positive control - 25µg/ml	0.47500	2.96280
positive control - 50µg/ml	2.13500	2.96280
positive control - 100µg/ml	4.37500*	2.96280
10μg/ml - 25μg/ml	0.37000	2.96280
10μg/ml - 50μg/ml	2.03000	2.96280
10μg/ml - 100μg/ml	4.27000*	2.96280
25μg/ml - 50μg/ml	1.66000	2.96280
$25\mu g/ml - 100\mu g/ml$	3.90000*	2.96280
50μg/ml - 100μg/ml	2.24000	2.96280

^{*} Denotes a statistically significant difference

³ homogenous groups are identified using columns of X's. Within each column, the levels containing X's form a group of means within which there are no statistically significant differences. The method currently being used to discriminate among the means is Fisher's least significant difference (LSD) procedure. With this method, there is a 5.0% risk of calling each pair of means significantly different when the actual difference equals 0.

Statistical analysis for percentage of neurite bearing cells of hexane fraction by using one way ANOVA.

ANOVA table

Source of variation	Sum of squares	Df	Mean square	F-ratio	P-value
Between groups	360.73	5	72.146	24.17	0.0007
Within groups	17.9126	6	2.98543		
Total	378.642	11			

The ANOVA table decomposes the variance into two components: a between-group component and a within-group component. The F-ratio, which in this case equals 24.17, is a ratio of the between-group estimate to the within-group estimate. Since the P-value of the F-test is less than 0.05, there is a statistically significant difference between the mean of neurite bearing cells from one level of concentration to another at the 95.0% confidence level. To determine which means are significantly different from which others, Multiple Range Tests were carried out.

Multiple range tests

Treatment concentration (µg/ml)	replicate	Mean	Homogenous groups
negative control	2	24.58	X
positive control (NGF)	2	28.86	XX
10	2	25.40	XX
25	2	32.29	XX
50	2	34.09	X
100	2	40.59	X

Contrast (concentrations)	Difference	+/- Limits
negative control – positive control	-4.28500*	4.22788
negative control - 10μg/ml	-0.81500*	4.22788
negative control - 25µg/ml	-7.71000*	4.22788
negative control - 50µ/ml	9.51000*	4.22788
negative control - 100μg/ml	-16.01000*	4.22788
positive control - 10µg/ml	3.47000	4.22788
positive control - 25µg/ml	-3.42500	4.22788
positive control - 50µg/ml	-5.22500*	4.22788
positive control - 100µg/ml	-11.72500*	4.22788
10μg/ml - 25μg/ml	-6.89500*	4.22788
10μg/ml - 50μg/ml	-8.69500*	4.22788
10μg/ml - 100μg/ml	-15.19500*	4.22788
25μg/ml - 50μg/ml	-1.80000	4.22788
25μg/ml - 100μg/ml	-8.30000*	4.22788
50μg/ml - 100μg/ml	-6.50000*	4.22788

^{*} Denotes a statistically significant difference

Statistical analysis for percentage of neurite bearing cells of ethyl acetate fraction by using one way ANOVA.

ANOVA table

Source of variation	Sum of squares	Df	Mean square	F-ratio	P-value
Between groups	229.567	5	45.9134	26.94	0.0005
Within groups	10.2246	6	1.70411		
Total	239.791	11			

The ANOVA table decomposes the variance into two components: a between-group component and a within-group component. The F-ratio, which in this case equals 26.94, is a ratio of the between-group estimate to the within-group estimate. Since the P-value of the F-test is less than 0.05, there is a statistically significant difference between the mean of neurite bearing cells from one level of concentration to another at the 95.0% confidence level. To determine which means are significantly different from which others, Multiple Range Tests were carried out.

Multiple range tests

Treatment concentration (µg/ml)	replicate	Mean	Homogenous groups
negative control	2	20.49	X
positive control (NGF)	2	24.14	X
10	2	23.74	X
25	2	26.51	XX
50	2	27.75	X
100	2	34.53	X

Contrast (concentrations)	Difference	+/- Limits
negative control – positive control	-3.65000*	3.19424
negative control - 10μg/ml	-3.25000*	3.19424
negative control - 25µg/ml	-6.01500*	3.19424
negative control - 50µ/ml	-7.26000*	3.19424
negative control - 100μg/ml	-14.04000*	3.19424
positive control - 10μg/ml	0.40000	3.19424
positive control - 25µg/ml	-2.36500	3.19424
positive control - 50μg/ml	-3.61000*	3.19424
positive control - 100µg/ml	-10.39000*	3.19424
10μg/ml - 25μg/ml	-2.76500	3.19424
10μg/ml - 50μg/ml	-4.01000*	3.19424
10μg/ml - 100μg/ml	-10.79000*	3.19424
25μg/ml - 50μg/ml	-1.24500	3.19424
25μg/ml - 100μg/ml	-8.02500*	3.19424
50μg/ml - 100μg/ml	-6.78000*	3.19424

^{*} Denotes a statistically significant difference

Statistical analysis for percentage of neurite bearing cells of water fraction by using one way ANOVA.

ANOVA table

Source of variation	Sum of squares	Df	Mean square	F-ratio	P-value
Between groups	52.6377	5	10.5275	4.52	0.0469
Within groups	13.9704	6	2.3284		
Total	66.6081	11			

The ANOVA table decomposes the variance into two components: a between-group component and a within-group component. The F-ratio, which in this case equals 4.52, is a ratio of the between-group estimate to the within-group estimate. Since the P-value of the F-test is less than 0.05, there is a statistically significant difference between the mean of neurite bearing cells from one level of concentration to another at the 95.0% confidence level. To determine which means are significantly different from which others, Multiple Range Tests were carried out.

Treatment concentration (µg/ml)	replicate	Mean	Homogenous groups
negative control	2	19.02	X
positive control (NGF)	2	24.17	X
10	2	21.86	XX
25	2	24.03	X
50	2	23.46	X
100	2	25.56	X

-5.14500* -2.83500	3.73378
-2.83500	
	3.73378
-5.00500*	3.73378
-4.43500*	3.73378
-6.54000*	3.73378
2.31000	3.73378
0.14000	3.73378
0.71000	3.73378
-1.39500	3.73378
-2.17000	3.73378
-1.60000	3.73378
-3.70500	3.73378
0.57000	3.73378
-1.53500	3.73378
-2.10500	3.73378
	-5.00500* -4.43500* -6.54000* 2.31000 0.14000 0.71000 -1.39500 -2.17000 -1.60000 -3.70500 0.57000 -1.53500

^{*} Denotes a statistically significant difference

² homogenous groups are identified using columns of X's. Within each column, the levels containing X's form a group of means within which there are no statistically significant differences. The method currently being used to discriminate among the means is Fisher's least significant difference (LSD) procedure. With this method, there is a 5.0% risk of calling each pair of means significantly different when the actual difference equals 0.

Statistical analysis for percentage of neurite bearing cells of fraction E1 by using one way ANOVA.

ANOVA table

Source of variation	Sum of squares	Df	Mean square	F-ratio	P-value
Between groups	2098.18	5	419.636	103.68	0.0000
Within groups	24.2844	6	4.04739		
Total	2122.47	11			

The ANOVA table decomposes the variance into two components: a between-group component and a within-group component. The F-ratio, which in this case equals 103.68, is a ratio of the between-group estimate to the within-group estimate. Since the P-value of the F-test is less than 0.05, there is a statistically significant difference between the mean of neurite bearing cells from one level of concentration to another at the 95.0% confidence level. To determine which means are significantly different from which others, Multiple Range Tests were carried out.

Multiple range tests

Treatment concentration (µg/ml)	replicate	Mean	Homogenous groups
negative control	2	21.51	X
positive control (NGF)	2	26.77	X
10	2	25.09	XX
25	2	35.75	X
50	2	51.27	X
100	2	56.04	X

Contrast (concentrations)	Difference	+/- Limits
negative control – positive control	-5.26500*	4.92274
negative control - 10µg/ml	-3.58000	4.92274
negative control - 25µg/ml	-14.24500*	4.92274
negative control - 50µ/ml	-29.76000*	4.92274
negative control - 100µg/ml	-34.53500*	4.92274
positive control - 10μg/ml	1.68500	4.92274
positive control - 25µg/ml	-8.98000*	4.92274
positive control - 50µg/ml	-24.49500*	4.92274
positive control - 100μg/ml	-29.27000*	4.92274
10μg/ml - 25μg/ml	-10.66500*	4.92274
10μg/ml - 50μg/ml	-26.18000*	4.92274
10μg/ml - 100μg/ml	-30.95500*	4.92274
25μg/ml - 50μg/ml	-15.51500*	4.92274
25μg/ml - 100μg/ml	-20.29000*	4.92274
50μg/ml - 100μg/ml	-4.775	4.92274
* Donato a statistically significant difference		1

^{*} Denotes a statistically significant difference

Statistical analysis for percentage of neurite bearing cells of fraction E2 by using one way ANOVA.

ANOVA table

Source of variation	Sum of squares	Df	Mean square	F-ratio	P-value
Between groups	1231.14	5	246.228	84.77	0.0000
Within groups	17.4287	6	2.90479		
Total	1248.57	11			

The ANOVA table decomposes the variance into two components: a between-group component and a within-group component. The F-ratio, which in this case equals 84.77, is a ratio of the between-group estimate to the within-group estimate. Since the P-value of the F-test is less than 0.05, there is a statistically significant difference between the mean of neurite bearing cells from one level of concentration to another at the 95.0% confidence level. To determine which means are significantly different from which others, Multiple Range Tests were carried out.

Multiple range tests

Treatment concentration (µg/ml)	replicate	Mean	Homogenous groups
negative control	2	20.77	X
positive control (NGF)	2	25.22	X
10	2	28.12	X
25	2	33.46	X
50	2	38.49	X
100	2	51.74	X

Difference	+/- Limits
-4.44500*	4.17039
-7.34500*	4.17039
-12.68500*	4.17039
-17.72000*	4.17039
-30.97000*	4.17039
-2.90000	4.17039
-8.24000*	4.17039
-13.27500*	4.17039
-26.52500*	4.17039
-5.34000*	4.17039
-10.37500*	4.17039
-23.62500*	4.17039
-5.03500*	4.17039
-18.28500*	4.17039
-13.25000*	4.17039
	-4.44500* -7.34500* -12.68500* -17.72000* -30.97000* -2.90000 -8.24000* -13.27500* -26.52500* -5.34000* -10.37500* -23.62500* -5.03500* -18.28500*

^{*} Denotes a statistically significant difference

Statistical analysis for percentage of neurite bearing cells of fraction E3 by using one way ANOVA.

ANOVA table

Source of variation	Sum of squares	Df	Mean square	F-ratio	P-value
Between groups	231.749	4	57.9372	58.90	0.0002
Within groups	4.9184	5	0.98368		
Total	236.667	9			

The ANOVA table decomposes the variance into two components: a between-group component and a within-group component. The F-ratio, which in this case equals 58.90, is a ratio of the between-group estimate to the within-group estimate. Since the P-value of the F-test is less than 0.05, there is a statistically significant difference between the mean of neurite bearing cells from one level of concentration to another at the 95.0% confidence level. To determine which means are significantly different from which others, Multiple Range Tests were carried out.

Treatment concentration (µg/ml)	replicate	Mean	Homogenous groups
negative control	2	18.67	X
positive control (NGF)	2	22.72	X
10	2	24.45	X
25	2	29.48	X
50	2	32.18	X

Contrast (concentrations)	Difference	+/- Limits
negative control – positive control	-4.04500*	2.54953
negative control - 10µg/ml	-5.77500*	2.54953
negative control - 25µg/ml	-10.80500*	2.54953
negative control - 50µ/ml	-13.50500*	2.54953
positive control - 10μg/ml	-1.73000	2.54953
positive control - 25μg/ml	-6.76000*	2.54953
positive control - 50μg/ml	-9.46000*	2.54953
10μg/ml - 25μg/ml	-5.03000*	2.54953
10μg/ml - 50μg/ml	-7.73000*	2.54953
25μg/ml - 50μg/ml	-2.70000	2.54953

^{*} Denotes a statistically significant difference

⁴ homogenous groups are identified using columns of X's. Within each column, the levels containing X's form a group of means within which there are no statistically significant differences. The method currently being used to discriminate among the means is Fisher's least significant difference (LSD) procedure. With this method, there is a 5.0% risk of calling each pair of means significantly different when the actual difference equals 0.

Statistical analysis for percentage of neurite bearing cells of fraction E4 by using one way ANOVA.

ANOVA table

Source of variation	Sum of squares	Df	Mean square	F-ratio	P-value
Between groups	161.884	4	40.4609	34.09	0.0008
Within groups	5.93435	5	1.18687		
Total	167.778	9			

The ANOVA table decomposes the variance into two components: a between-group component and a within-group component. The F-ratio, which in this case equals 34.09, is a ratio of the between-group estimate to the within-group estimate. Since the P-value of the F-test is less than 0.05, there is a statistically significant difference between the mean of neurite bearing cells from one level of concentration to another at the 95.0% confidence level. To determine which means are significantly different from which others, Multiple Range Tests were carried out.

Multiple range tests

Treatment concentration (µg/ml)	replicate	Mean	Homogenous groups
negative control	2	18.01	X
positive control (NGF)	2	21.46	X
10	2	17.89	X
25	2	26.42	X
50	2	27.35	X

Contrast (concentrations)	Difference	+/- Limits
negative control – positive control	-3.44500*	2.80049
negative control - 10μg/ml	0.12000	2.80049
negative control - 25µg/ml	-8.40500*	2.80049
negative control - 50µ/ml	-9.33500*	2.80049
positive control - 10µg/ml	3.56500*	2.80049
positive control - 25µg/ml	-4.96000*	2.80049
positive control - 50μg/ml	-5.89000*	2.80049
10μg/ml - 25μg/ml	-8.52500*	2.80049
10μg/ml - 50μg/ml	-9.45500*	2.80049
25μg/ml - 50μg/ml	-0.93000	2.80049

^{*} Denotes a statistically significant difference

Statistical analysis for percentage of neurite bearing cells of fraction E5 by using one way ANOVA.

ANOVA table

Source of variation	Sum of squares	Df	Mean square	F-ratio	P-value
Between groups	231.366	4	57.8414	143.31	0.0000
Within groups	2.0181	5	0.40362		
Total	233.384	9			

The ANOVA table decomposes the variance into two components: a between-group component and a within-group component. The F-ratio, which in this case equals 143.31, is a ratio of the between-group estimate to the within-group estimate. Since the P-value of the F-test is less than 0.05, there is a statistically significant difference between the mean of neurite bearing cells from one level of concentration to another at the 95.0% confidence level. To determine which means are significantly different from which others, Multiple Range Tests were carried out.

Treatment concentration (µg/ml)	replicate	Mean	Homogenous groups
negative control	2	20.71	X
positive control (NGF)	2	25.48	X
10	2	22.26	X
25	2	28.92	X
50	2	34.08	X

Contrast (concentrations)	Difference	+/- Limits
negative control – positive control	-4.76500*	1.63312
negative control - 10µg/ml	1.54500	1.63312
negative control - 25µg/ml	-8.21000*	1.63312
negative control - 50µ/ml	-13.37000*	1.63312
positive control - 10µg/ml	3.22000*	1.63312
positive control - 25µg/ml	-3.44500*	1.63312
positive control - 50µg/ml	-8.60500*	1.63312
10μg/ml - 25μg/ml	-6.66500*	1.63312
10μg/ml - 50μg/ml	-11.82500*	1.63312
25μg/ml - 50μg/ml	-5.16000*	1.63312

^{*} Denotes a statistically significant difference

⁴ homogenous groups are identified using columns of X's. Within each column, the levels containing X's form a group of means within which there are no statistically significant differences. The method currently being used to discriminate among the means is Fisher's least significant difference (LSD) procedure. With this method, there is a 5.0% risk of calling each pair of means significantly different when the actual difference equals 0.

Statistical analysis for percentage of neurite bearing cells of fraction E6 by using one way ANOVA.

ANOVA table

Source of variation	Sum of squares	Df	Mean square	F-ratio	P-value
Between groups	19.0941	5	3.81882	4.40	0.0497
Within groups	5.2059	6	0.86765		
Total	24.3	11			

The ANOVA table decomposes the variance into two components: a between-group component and a within-group component. The F-ratio, which in this case equals 4.401, is a ratio of the between-group estimate to the within-group estimate. Since the P-value of the F-test is less than 0.05, there is a statistically significant difference between the mean of neurite bearing cells from one level of concentration to another at the 95.0% confidence level. To determine which means are significantly different from which others, Multiple Range Tests were carried out.

Treatment concentration (µg/ml)	replicate	Mean	Homogenous groups
negative control	2	18.74	X
positive control (NGF)	2	22.72	X
10	2	19.88	X
25	2	19.67	X
50	2	19.90	X
100	2	19.33	X

Contrast (concentrations)	Difference	+/- Limits
negative control – positive control	-3.97500*	2.27925
negative control - 10μg/ml	-1.13500	2.27925
negative control - 25µg/ml	-0.92500	2.27925
negative control - 50µ/ml	-1.15000	2.27925
negative control - 100µg/ml	-0.58500	2.27925
positive control - 10μg/ml	2.84000*	2.27925
positive control - 25µg/ml	3.05000*	2.27925
positive control - 50µg/ml	2.82500*	2.27925
positive control - 100μg/ml	3.39000*	2.27925
10μg/ml - 25μg/ml	0.21000	2.27925
10μg/ml - 50μg/ml	-0.01500	2.27925
10μg/ml - 100μg/ml	0.55000	2.27925
25μg/ml - 50μg/ml	-0.22500	2.27925
25μg/ml - 100μg/ml	0.34000	2.27925
50μg/ml - 100μg/ml	0.56500	2.27925

^{*} Denotes a statistically significant difference

² homogenous groups are identified using columns of X's. Within each column, the levels containing X's form a group of means within which there are no statistically significant differences. The method currently being used to discriminate among the means is Fisher's least significant difference (LSD) procedure. With this method, there is a 5.0% risk of calling each pair of means significantly different when the actual difference equals 0.

Statistical analysis for percentage of neurite bearing cells of fraction E7 by using one way ANOVA.

ANOVA table

Source of variation	Sum of squares	Df	Mean square	F-ratio	P-value
Between groups	51.0189	5	10.2038	7.27	0.0158
Within groups	8.42455	6	1.40409		
Total	59.4435	11			

The ANOVA table decomposes the variance into two components: a between-group component and a within-group component. The F-ratio, which in this case equals 7.27, is a ratio of the between-group estimate to the within-group estimate. Since the P-value of the F-test is less than 0.05, there is a statistically significant difference between the mean of neurite bearing cells from one level of concentration to another at the 95.0% confidence level. To determine which means are significantly different from which others, Multiple Range Tests were carried out.

Treatment concentration (µg/ml)	replicate	Mean	Homogenous groups
negative control	2	18.18	X
positive control (NGF)	2	22.21	X
10	2	16.07	X
25	2	16.97	X
50	2	16.64	X
100	2	16.84	X

Contrast (concentrations)	Difference	+/- Limits
negative control – positive control	-4.03000*	2.89946
negative control - 10μg/ml	2.11000	2.89946
negative control - 25µg/ml	1.20500	2.89946
negative control - 50µ/ml	1.53500	2.89946
negative control - 100μg/ml	1.33500	2.89946
positive control - 10µg/ml	6.14000*	2.89946
positive control - 25µg/ml	5.23500*	2.89946
positive control - 50µg/ml	5.56500*	2.89946
positive control - 100µg/ml	5.36500*	2.89946
10μg/ml - 25μg/ml	-0.90500	2.89946
10μg/ml - 50μg/ml	-0.57500	2.89946
10μg/ml - 100μg/ml	-0.77500	2.89946
25μg/ml - 50μg/ml	0.33000	2.89946
25μg/ml - 100μg/ml	0.13000	2.89946
50μg/ml - 100μg/ml	-0.20000	2.89946

^{*} Denotes a statistically significant difference

² homogenous groups are identified using columns of X's. Within each column, the levels containing X's form a group of means within which there are no statistically significant differences. The method currently being used to discriminate among the means is Fisher's least significant difference (LSD) procedure. With this method, there is a 5.0% risk of calling each pair of means significantly different when the actual difference equals 0.

Statistical analysis for percentage of neurite bearing cells of subfraction sub4b_4 by using one way ANOVA.

ANOVA table

Source of variation	Sum of squares	Df	Mean square	F-ratio	P-value
Between groups	1341.1	5	268.62	158.17	0.0000
Within groups	10.19	6	1.69833		
Total	1353.29	11			

The ANOVA table decomposes the variance into two components: a between-group component and a within-group component. The F-ratio, which in this case equals 158.17, is a ratio of the between-group estimate to the within-group estimate. Since the P-value of the F-test is less than 0.05, there is a statistically significant difference between the mean of neurite bearing cells from one level of concentration to another at the 95.0% confidence level. To determine which means are significantly different from which others, Multiple Range Tests were carried out.

Multiple range tests

Treatment concentration (µg/ml)	replicate	Mean	Homogenous groups
negative control	2	17.01	X
positive control (NGF)	2	20.65	X
10	2	20.46	X
25	2	24.70	X
50	2	29.56	X
100	2	48.84	X

Difference	+/- Limits
-3.63500*	3.18883
-3.44500*	3.18883
-7.68500*	3.18883
-12.55000*	3.18883
-31.82500*	3.18883
0.19000	3.18883
-4.05000*	3.18883
-8.91500*	3.18883
-28.19000*	3.18883
-4.24000*	3.18883
-9.10500*	3.18883
-28.38000*	3.18883
-4.86500*	3.18883
-24.14000*	3.18883
-19.27500*	3.18883
	-3.63500* -3.44500* -7.68500* -12.55000* -31.82500* 0.19000 -4.05000* -8.91500* -28.19000* -4.24000* -9.10500* -28.38000* -4.86500* -24.14000*

^{*} Denotes a statistically significant difference

Statistical analysis for percentage of neurite bearing cells of subfraction sub4b_6 by using one way ANOVA.

ANOVA table

Source of variation	Sum of squares	Df	Mean square	F-ratio	P-value
Between groups	48.5128	4	12.1282	5.36	0.0471
Within groups	11.3161	5	2.26321		
Total	59.8289	9			

The ANOVA table decomposes the variance into two components: a between-group component and a within-group component. The F-ratio, which in this case equals 5.36, is a ratio of the between-group estimate to the within-group estimate. Since the P-value of the F-test is less than 0.05, there is a statistically significant difference between the mean of neurite bearing cells from one level of concentration to another at the 95.0% confidence level. To determine which means are significantly different from which others, Multiple Range Tests were carried out.

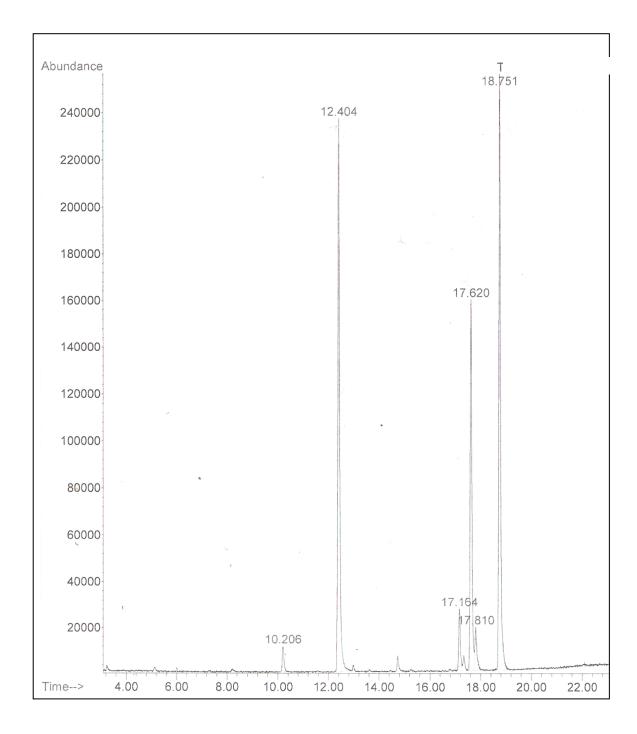
Multiple range tests

Treatment concentration (µg/ml)	replicate	Mean	Homogenous groups
negative control	2	17.24	X
positive control (NGF)	2	21.57	XX
10	2	19.84	XXX
25	2	23.41	X
50	2	18.40	XX

Contrast (concentrations)	Difference	+/- Limits
negative control – positive control	-4.33000*	3.86719
negative control - 10µg/ml	-2.59500	3.86719
negative control - 25µg/ml	-6.17000*	3.86719
negative control - 50µ/ml	-1.16000	3.86719
positive control - 10µg/ml	1.73500	3.86719
positive control - 25µg/ml	-1.84000	3.86719
positive control - 50µg/ml	3.17000	3.86719
10μg/ml - 25μg/ml	-3.57500*	3.86719
10μg/ml - 50μg/ml	1.43500	3.86719
25μg/ml - 50μg/ml	5.01000*	3.86719

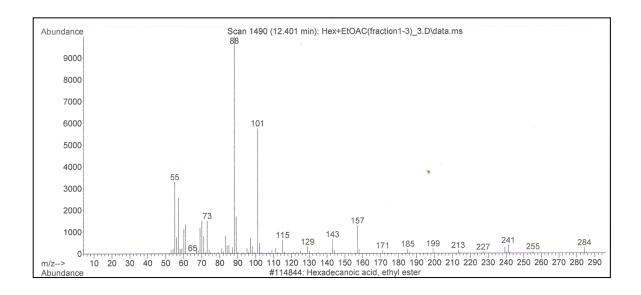
^{*} Denotes a statistically significant difference

The total ion chromatogram (TIC) of fraction E1 of *Hericium erinaceus*

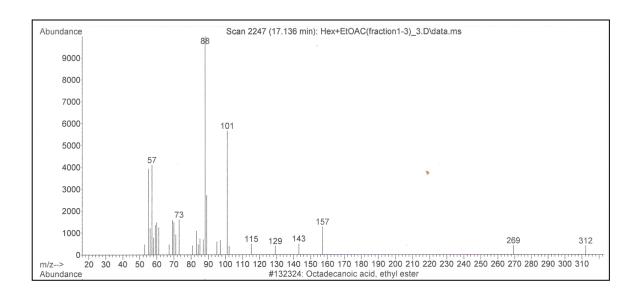


Mass spectrum of fraction E1 of Hericium erinaceus

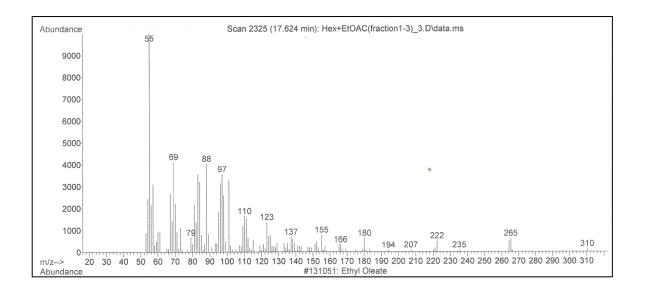
Mass spectrum of ethyl palmitate



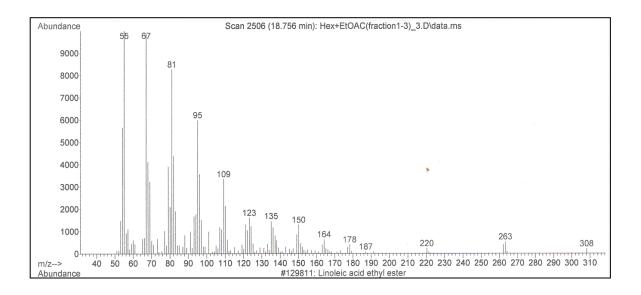
Mass spectrum of ethyl stearate



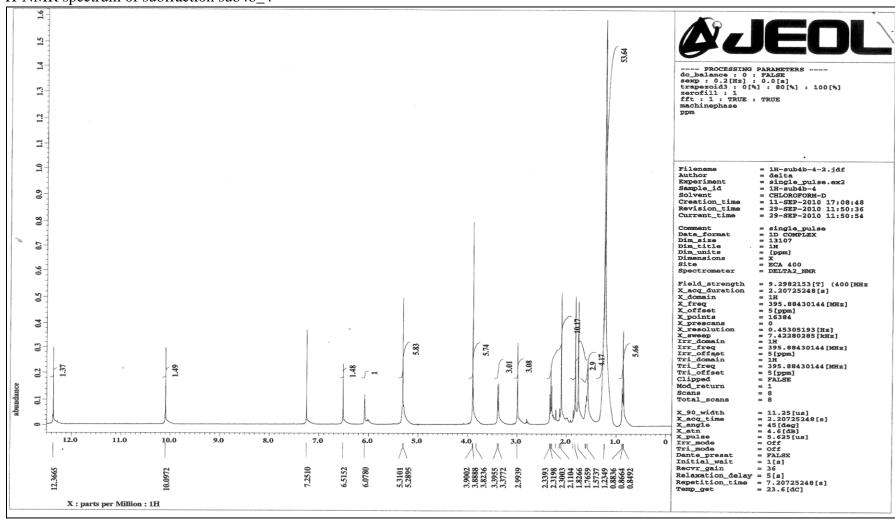
Mass spectrum of ethyl oleate

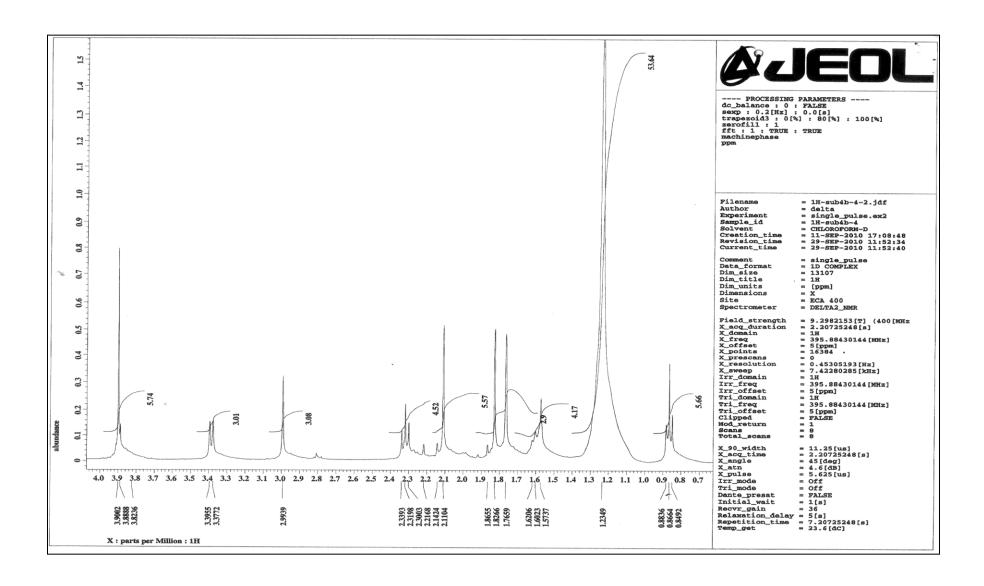


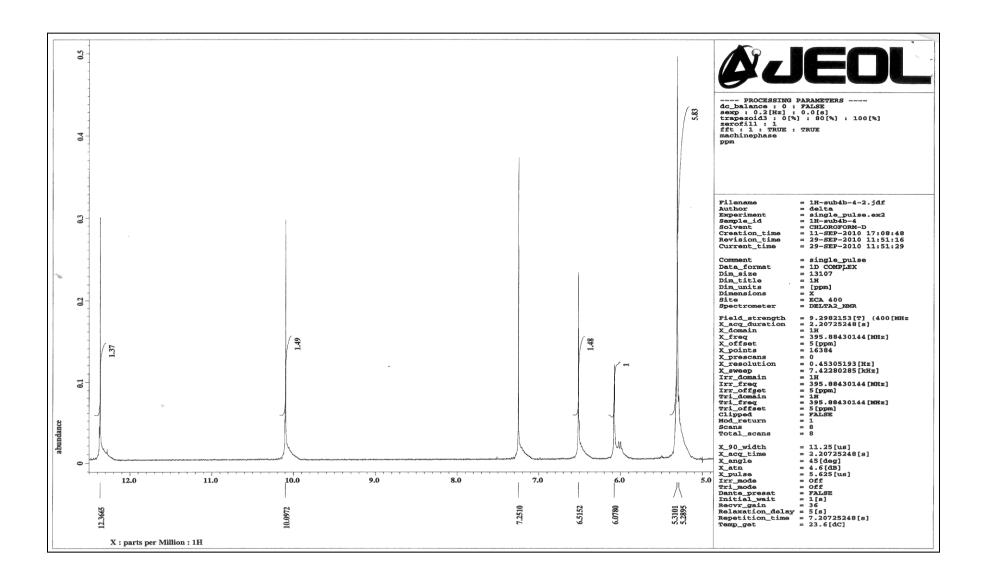
Mass spectrum of ethyl linoleate



APPENDIX 17 ¹H-NMR spectrum of subfraction sub4b_4

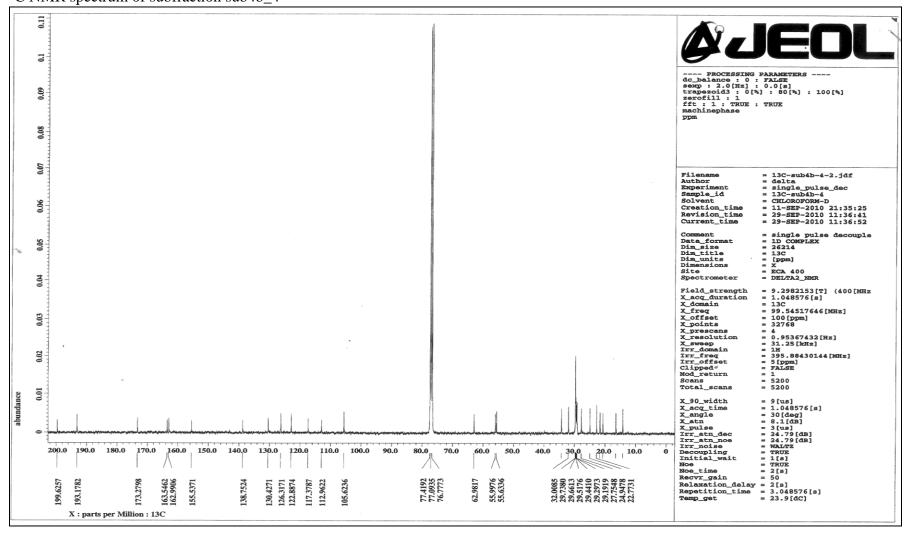


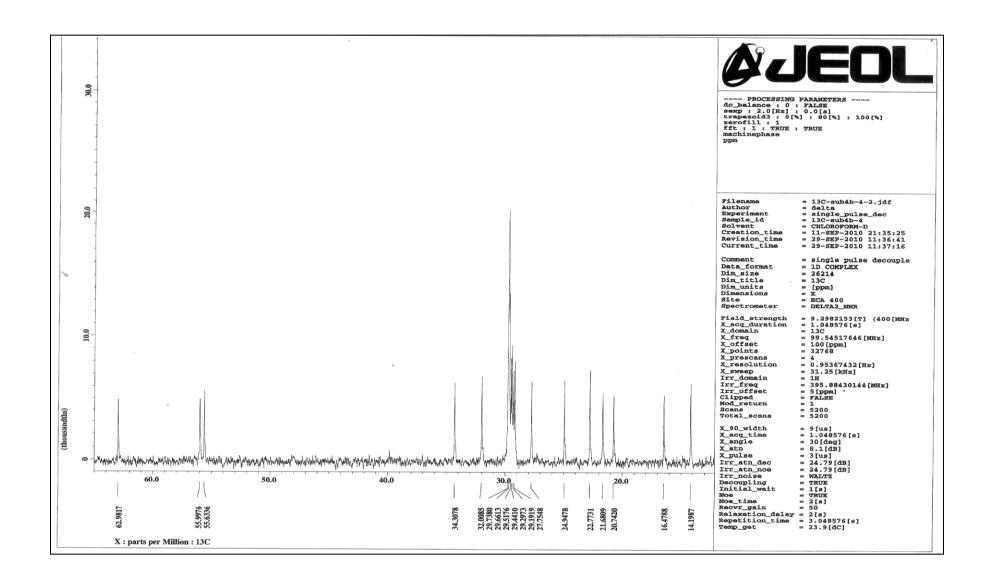


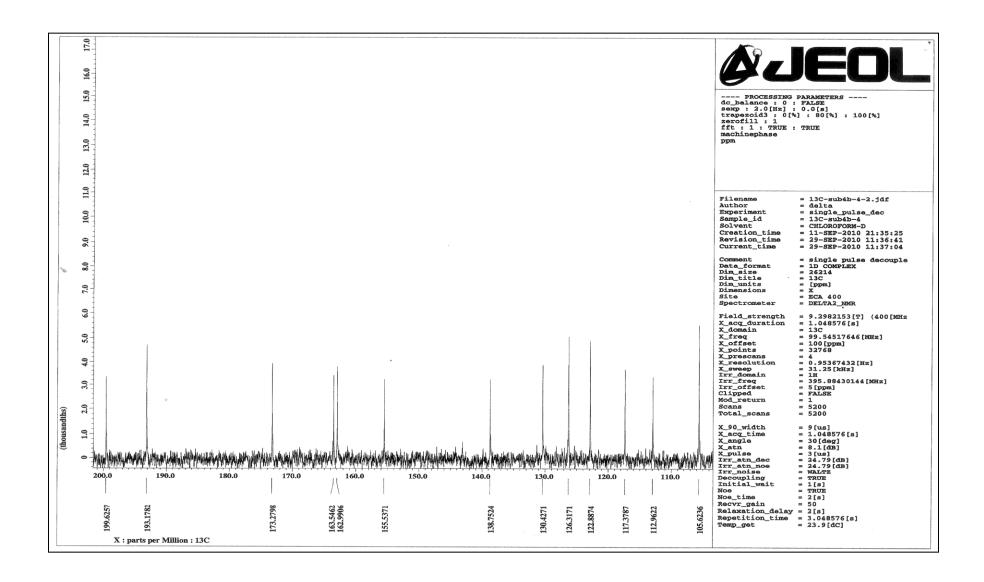


APPENDIX 18

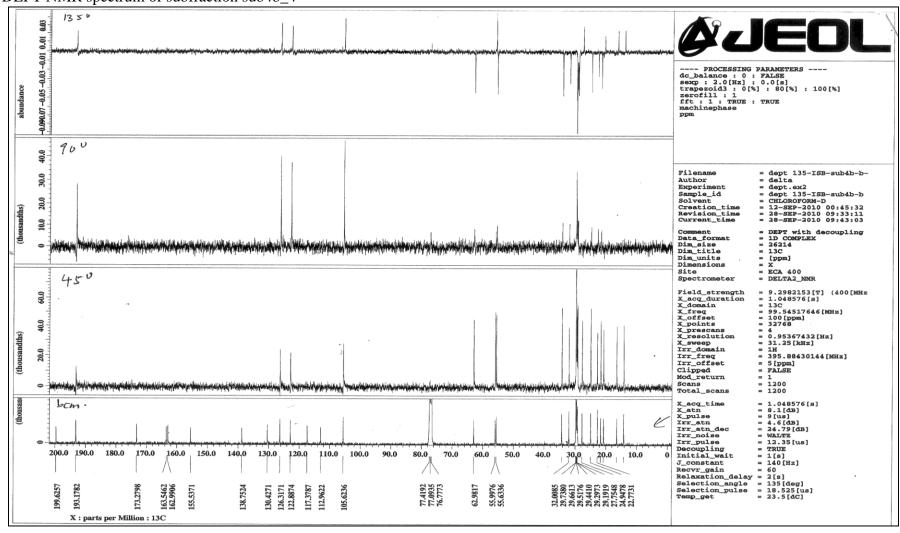
¹³C NMR spectrum of subfraction sub4b_4

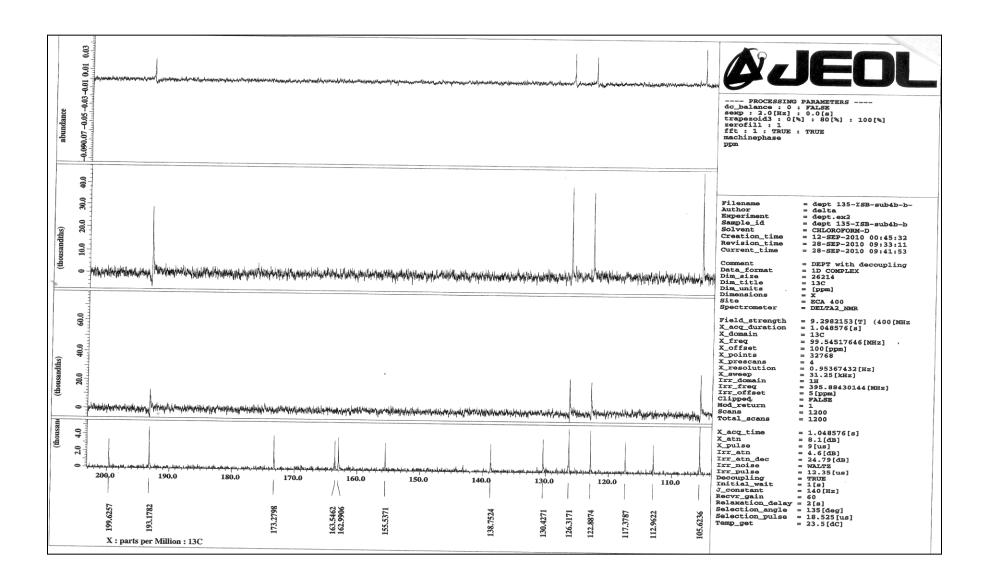


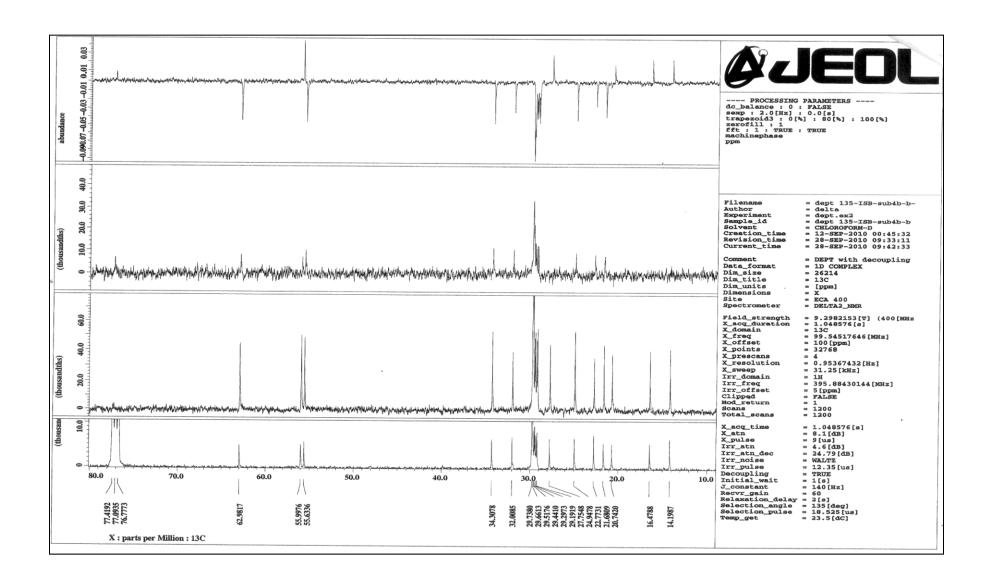




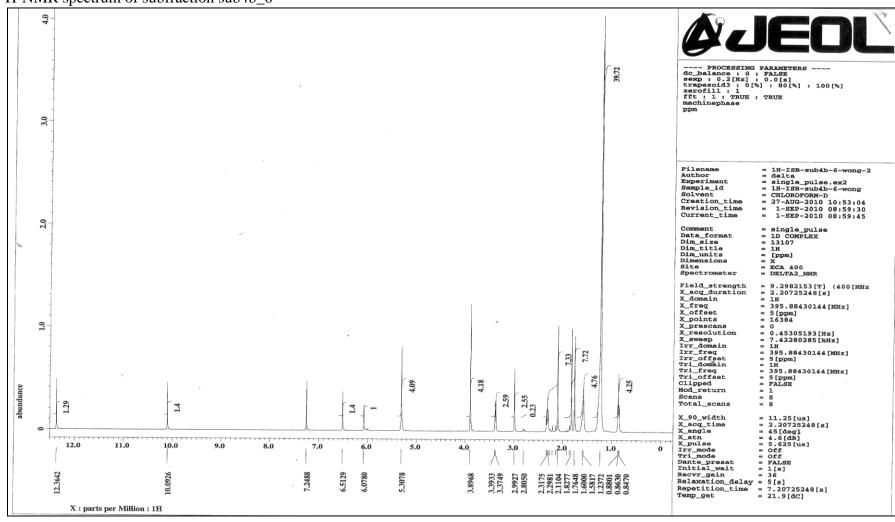
APPENDIX 19
DEPT NMR spectrum of subfraction sub4b_4

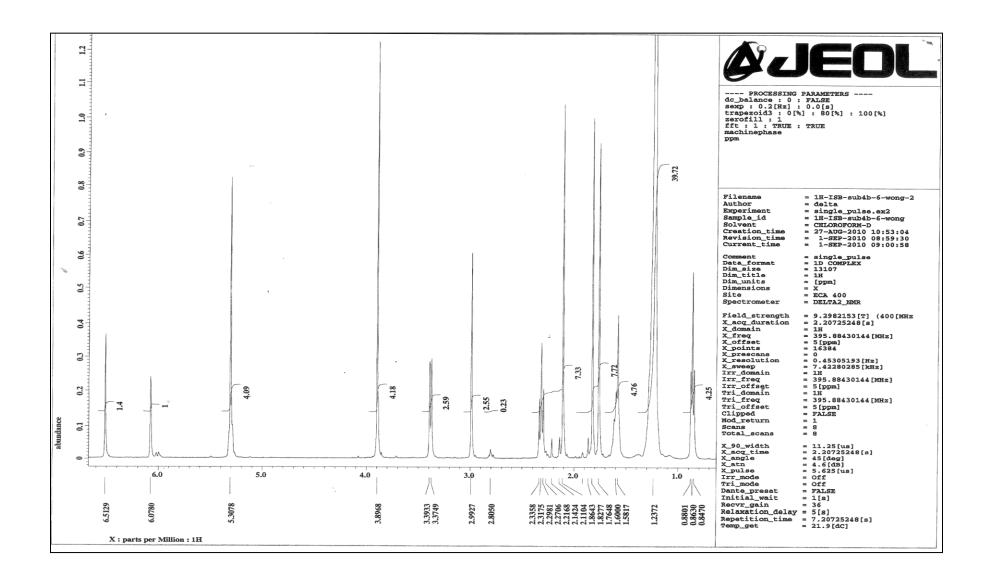


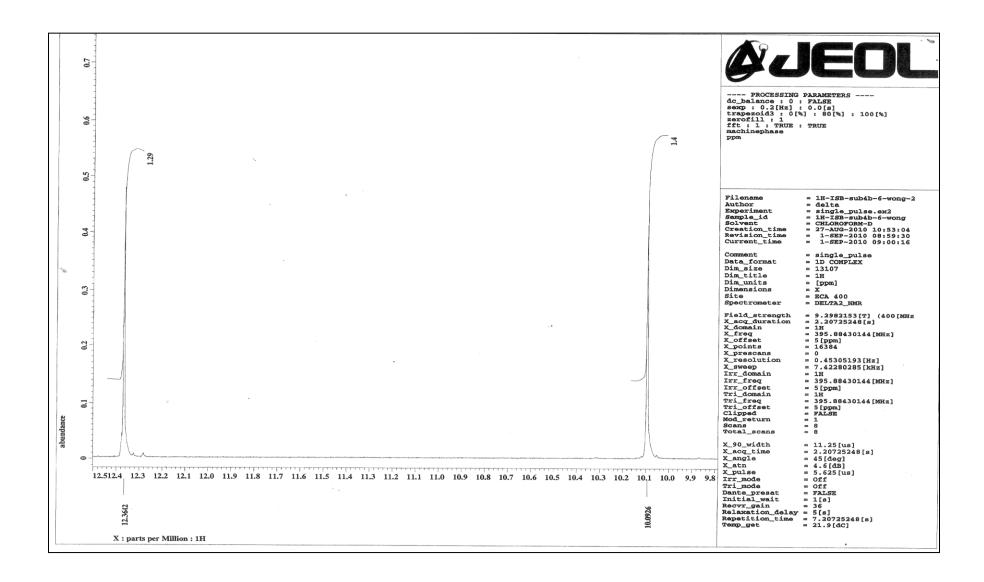




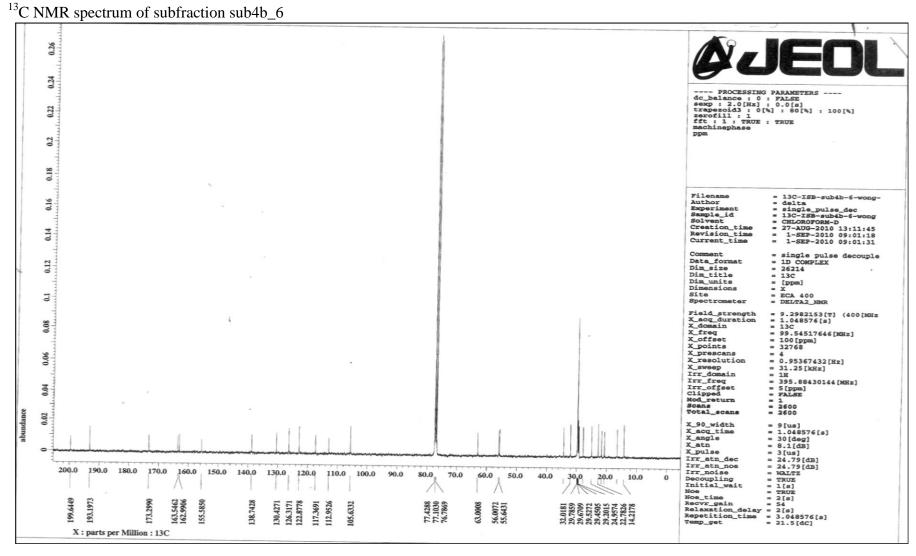
APPENDIX 20 ¹H-NMR spectrum of subfraction sub4b_6

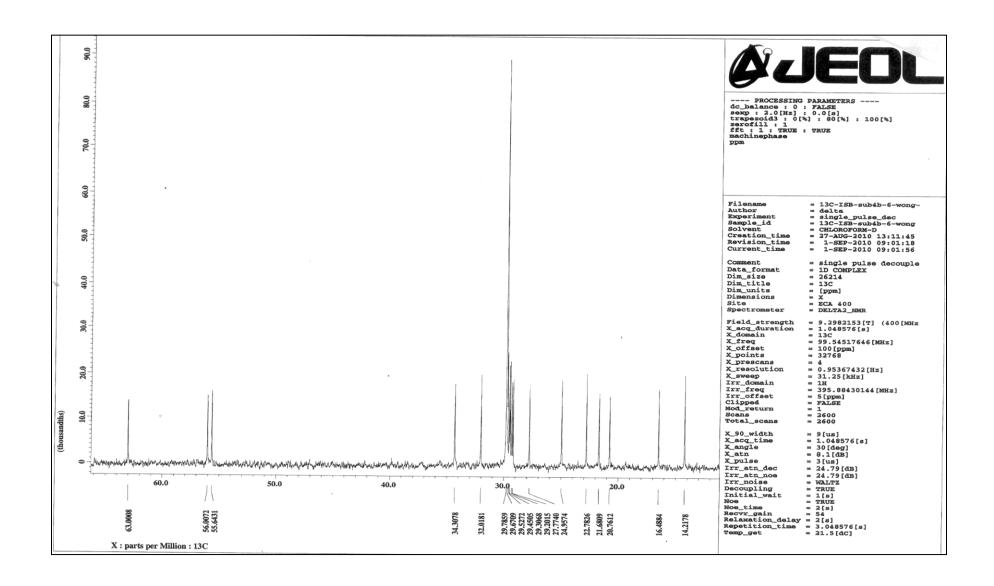


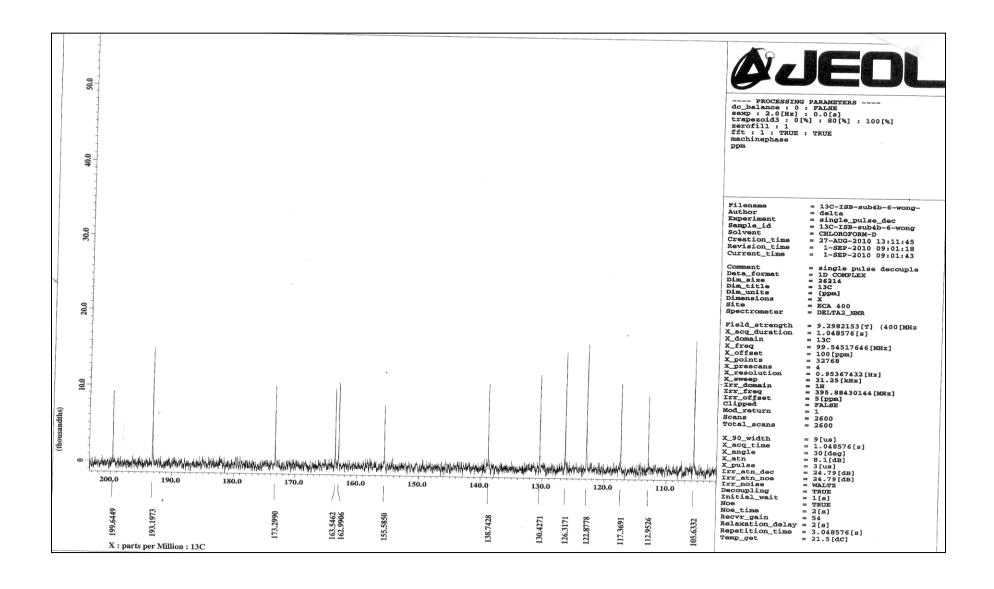




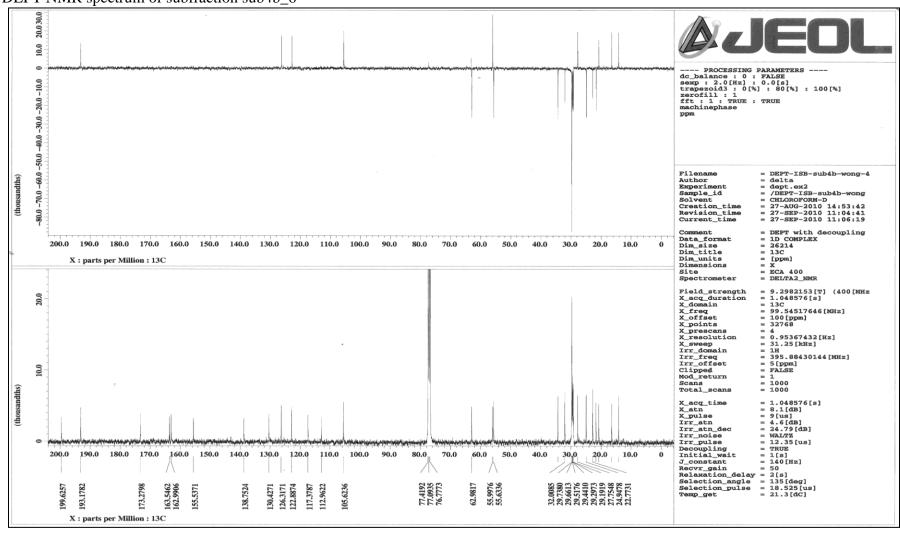
APPENDIX 21

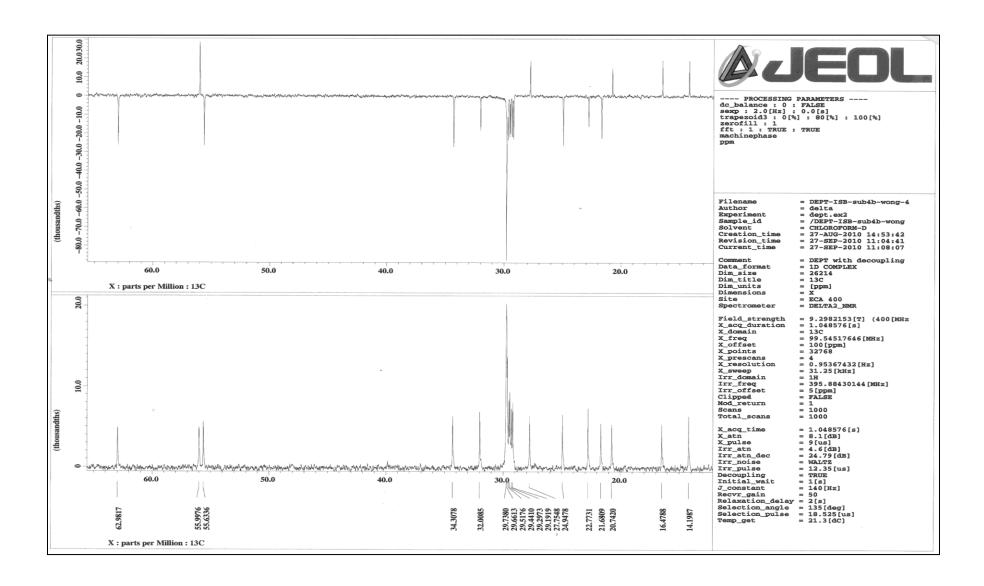


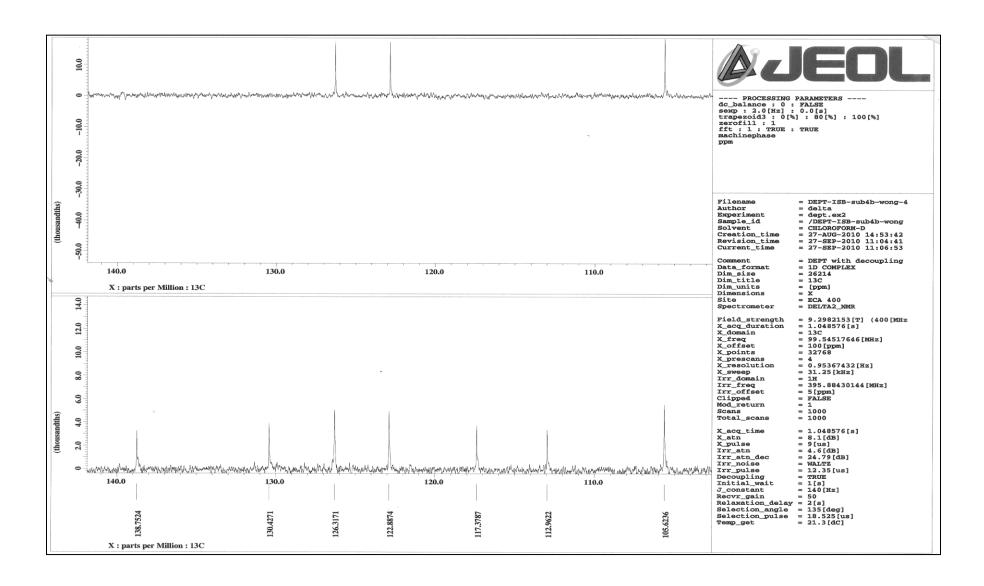


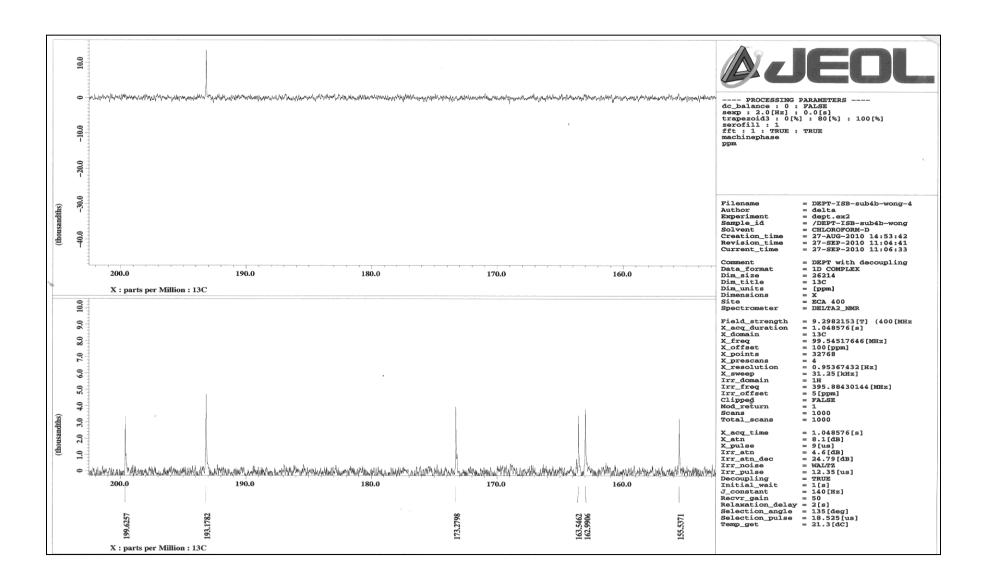


APPENDIX 22 DEPT NMR spectrum of subfraction sub4b_6



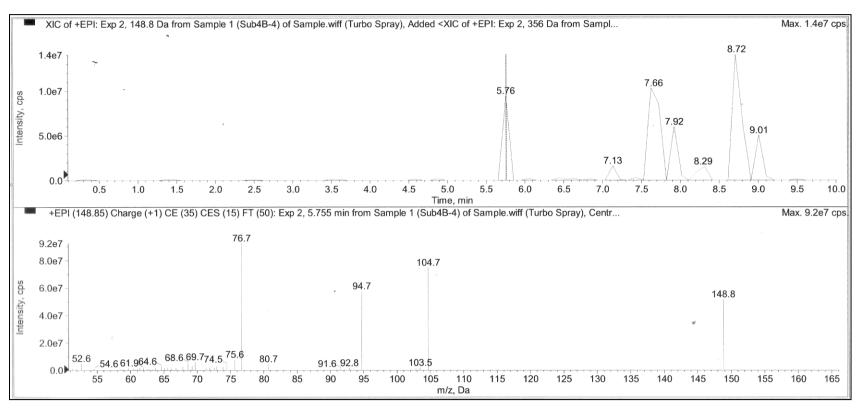




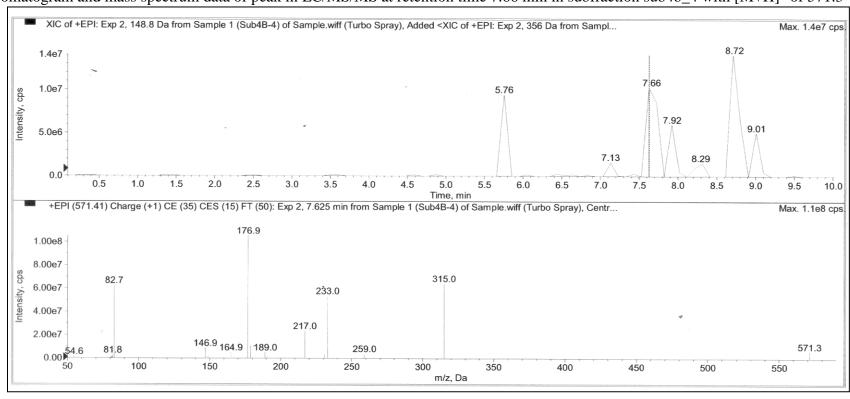


APPENDIX 23

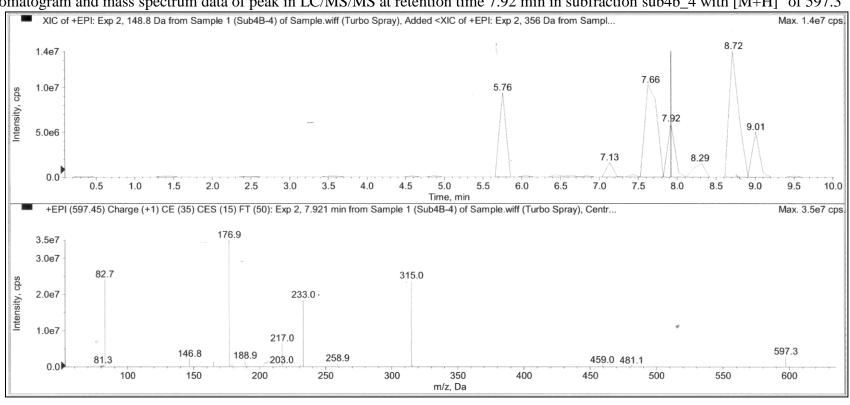
Chromatogram and mass spectrum data of peak in LC/MS/MS at retention time 5.76 min in subfraction sub4b_4 with [M+H]⁺ of 148.8



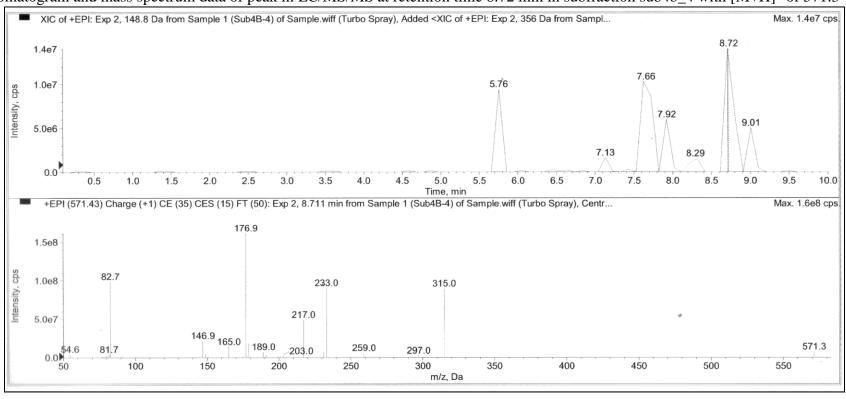
APPENDIX 24 Chromatogram and mass spectrum data of peak in LC/MS/MS at retention time 7.66 min in subfraction sub4b_4 with [M+H]⁺ of 571.3



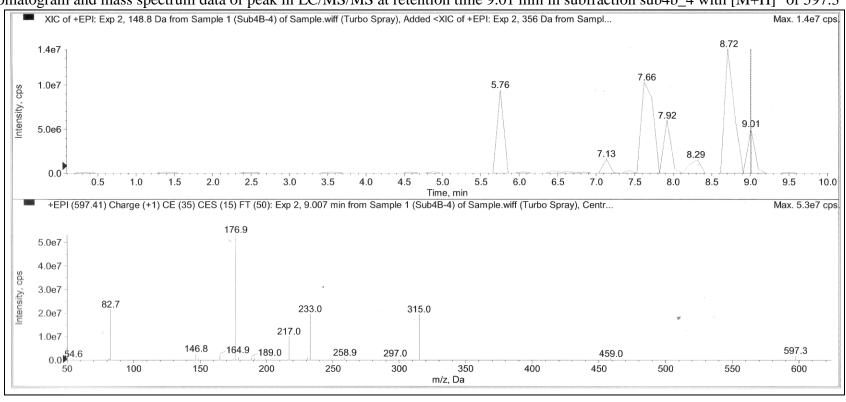
APPENDIX 25 Chromatogram and mass spectrum data of peak in LC/MS/MS at retention time 7.92 min in subfraction sub4b_4 with [M+H]⁺ of 597.3



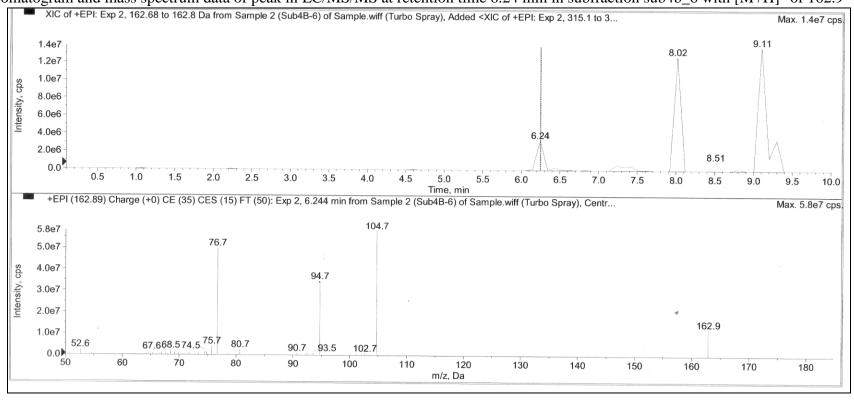
APPENDIX 26 Chromatogram and mass spectrum data of peak in LC/MS/MS at retention time 8.72 min in subfraction sub4b_4 with [M+H]⁺ of 571.3



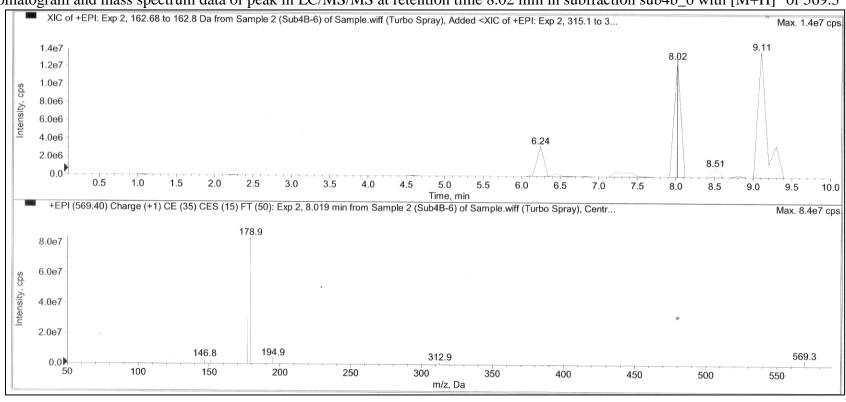
APPENDIX 27 Chromatogram and mass spectrum data of peak in LC/MS/MS at retention time 9.01 min in subfraction sub4b_4 with [M+H]⁺ of 597.3



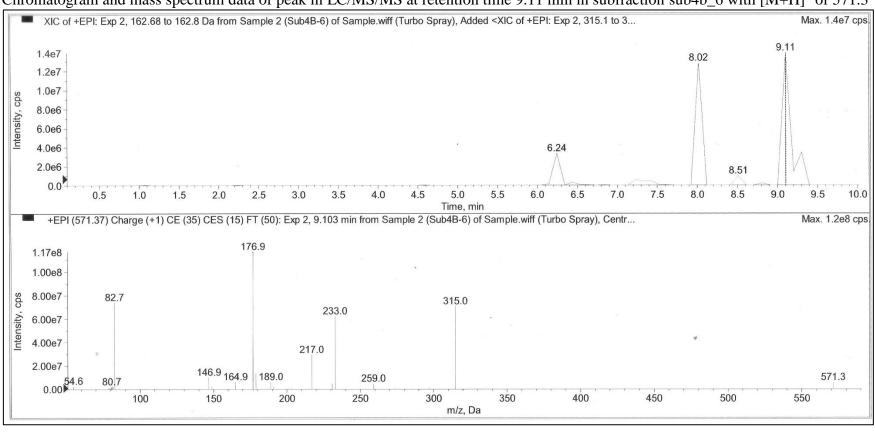
APPENDIX 28 Chromatogram and mass spectrum data of peak in LC/MS/MS at retention time 6.24 min in subfraction sub4b_6 with [M+H]⁺ of 162.9



APPENDIX 29 Chromatogram and mass spectrum data of peak in LC/MS/MS at retention time 8.02 min in subfraction sub4b_6 with [M+H]⁺ of 569.3



APPENDIX 30 Chromatogram and mass spectrum data of peak in LC/MS/MS at retention time 9.11 min in subfraction sub4b_6 with [M+H]⁺ of 571.3



APPENDIX 31 Chromatogram and mass spectrum data of peak in LC/MS/MS at retention time 9.31 min in subfraction sub4b_6 with [M+H]⁺ of 597.3

