

(QT Reviewed)

```

Data Path  : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
Data File  : BE097845.D
Acq On     : 11 Oct 2018    1:49
Operator   : SJ/JU
Sample     : J5183-08
Misc       :
ALS Vial   : 27    Sample Multiplier: 1

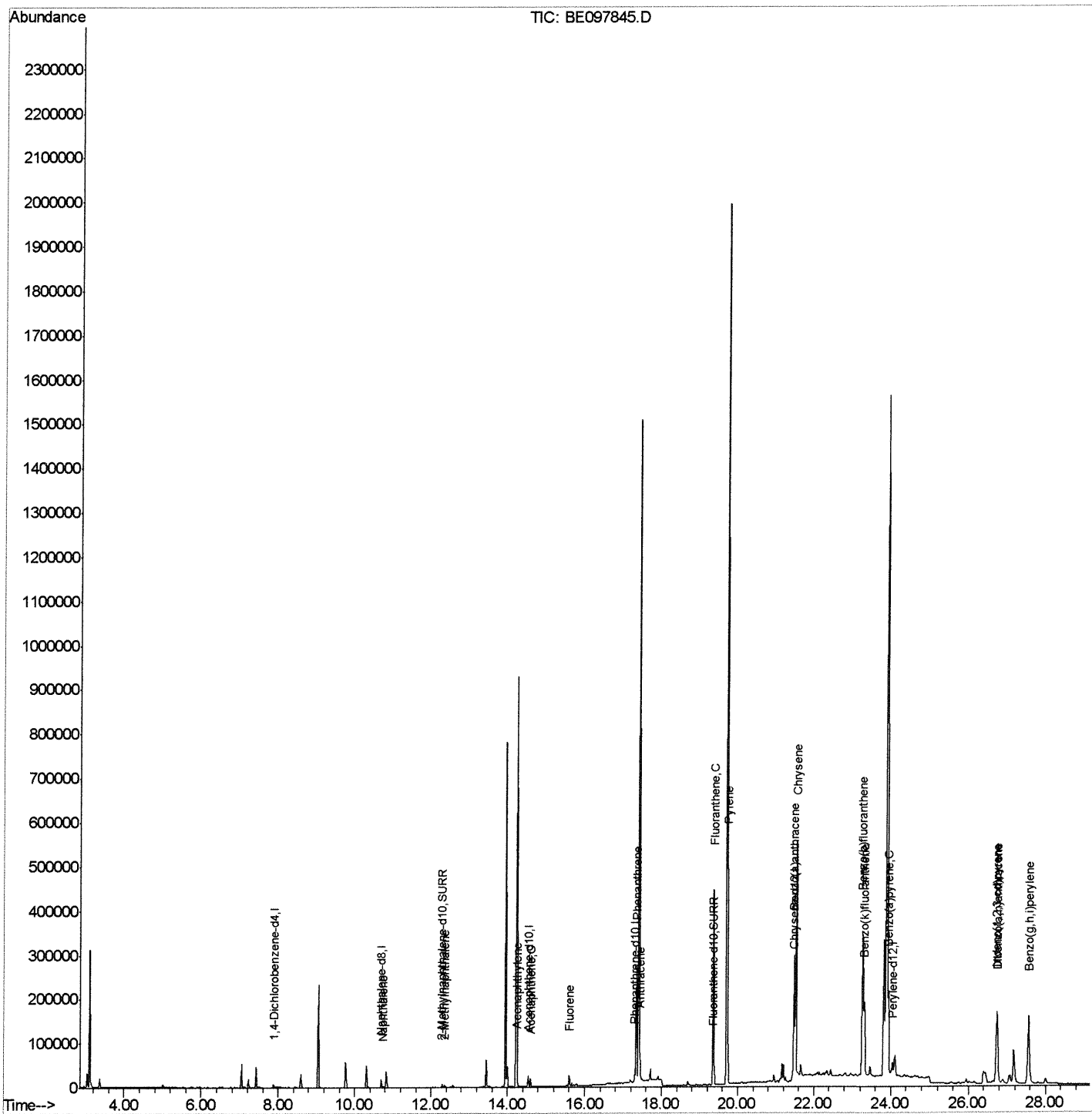
```

Instrument :
BNA_E
ClientSampleId :
JLC47

Manual Integrations

Sohil
10/11/2018 5:33:59 PM

Quant Time: Oct 11 02:57:18 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE101018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 11 01:20:33 2018
Response via : Initial Calibration



Quantitation Report (Qedit)

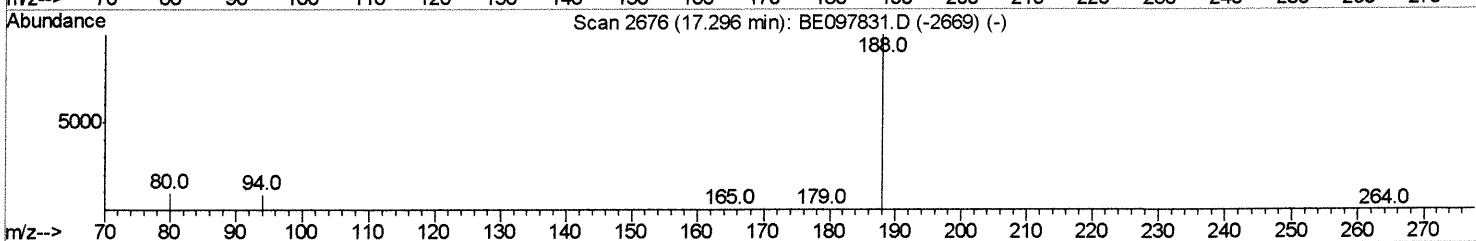
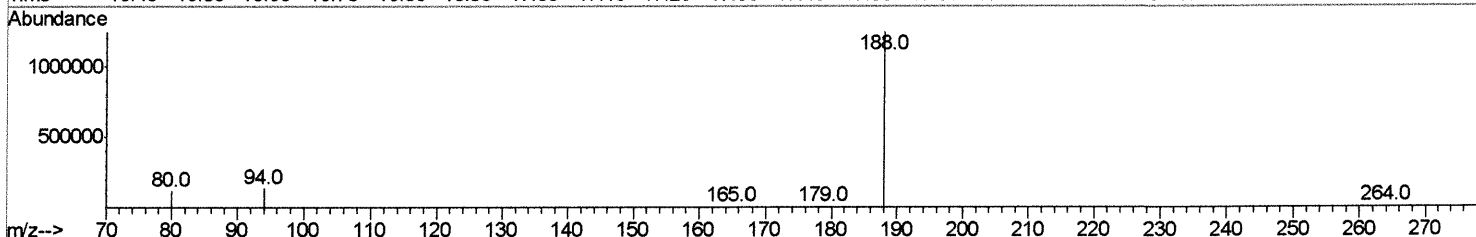
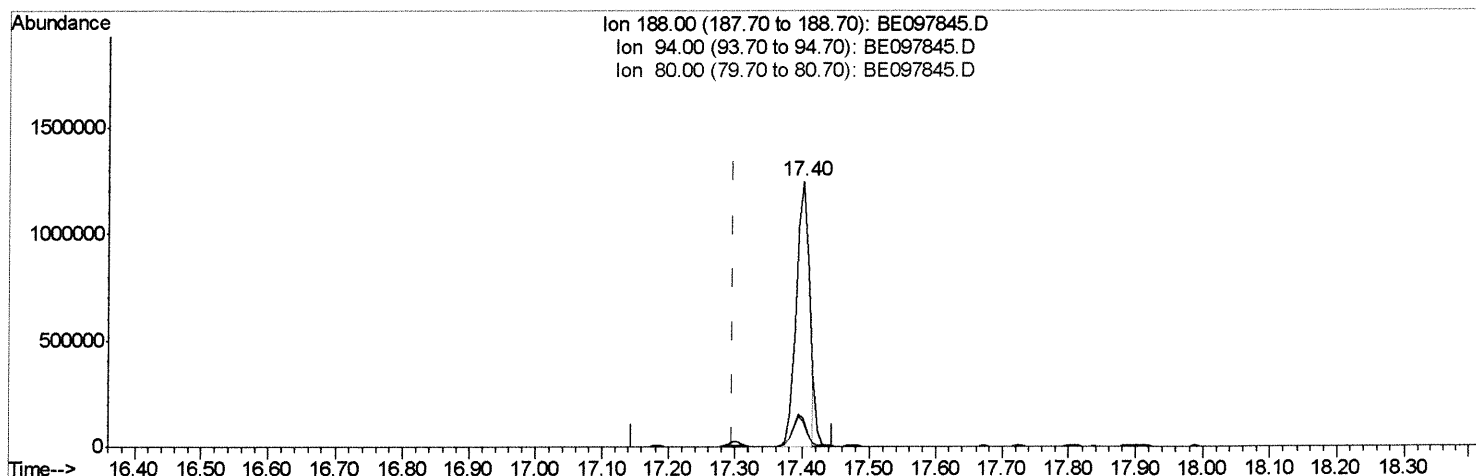
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
 Data File : BE097845.D
 Acq On : 11 Oct 2018 1:49
 Operator : SJ/JU
 Sample : J5183-08
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 JLC47

Manual Integrations
 APPROVED

Sohil
 10/11/2018 5:33:59 PM

Quant Time: Oct 11 02:47:23 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE101018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 11 01:20:33 2018
 Response via : Initial Calibration



TIC: BE097845.D

(10) Phenanthrene-d10 (I)
 17.401min (+0.105) 0.40ng/ui
 response 1766684

Ion	Exp%	Act%
188.00	100	100
94.00	8.60	10.76#
80.00	9.30	9.44
0.00	0.00	0.00

Quantitation Report (Qedit)

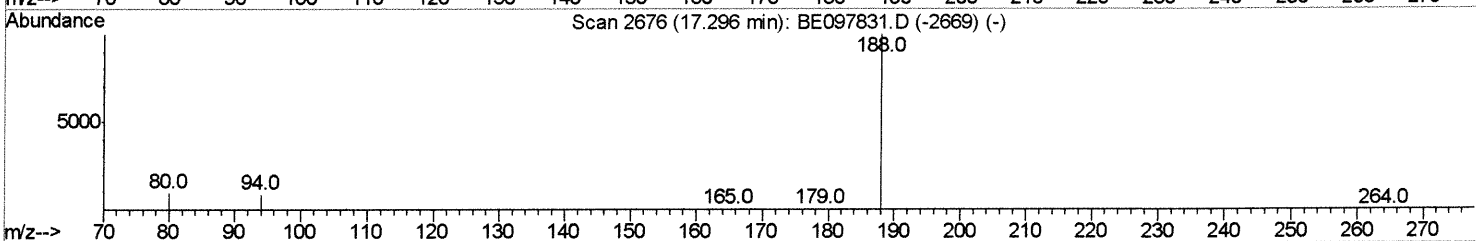
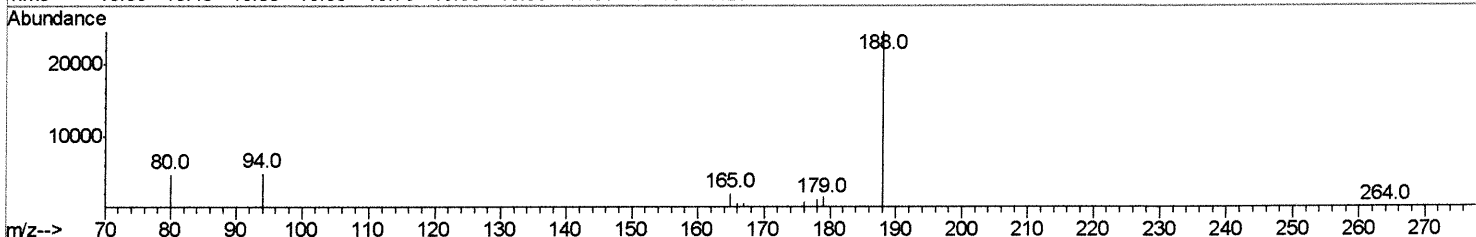
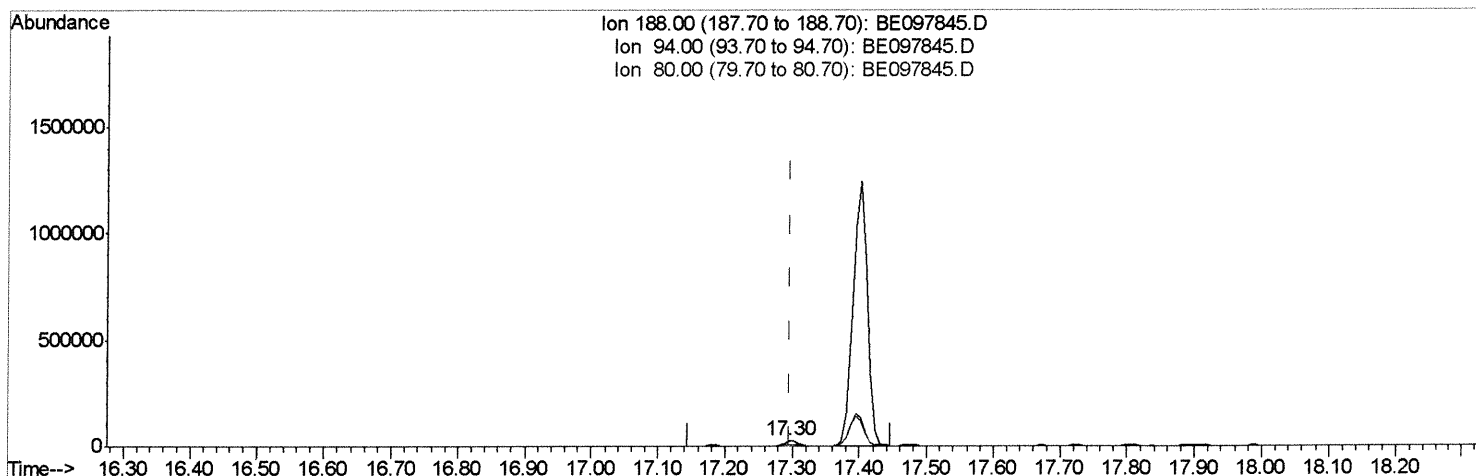
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
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Manual Integrations
 APPROVED

Sohil
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 Response via : Initial Calibration



TIC: BE097845.D

(10) Phenanthrene-d10 (I)

17.295min (-0.001) 0.40ng/ul m > SJ 10/16/18

response 37113

Ion	Exp%	Act%
188.00	100	100
94.00	8.60	19.78#
80.00	9.30	18.81#
0.00	0.00	0.00

Quantitation Report (Qedit)

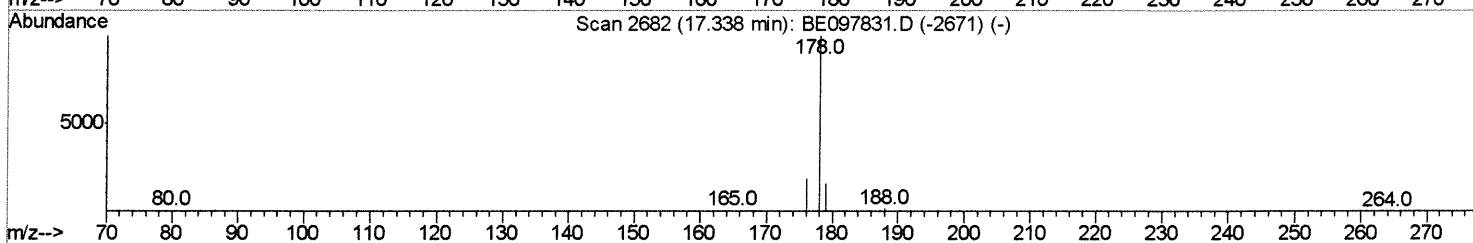
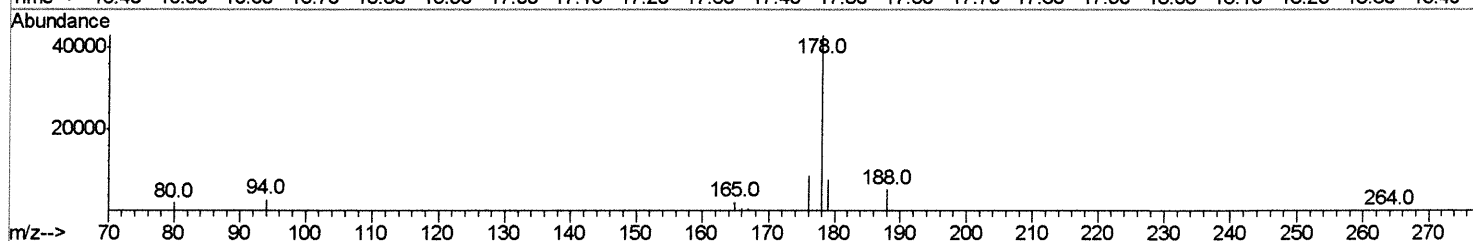
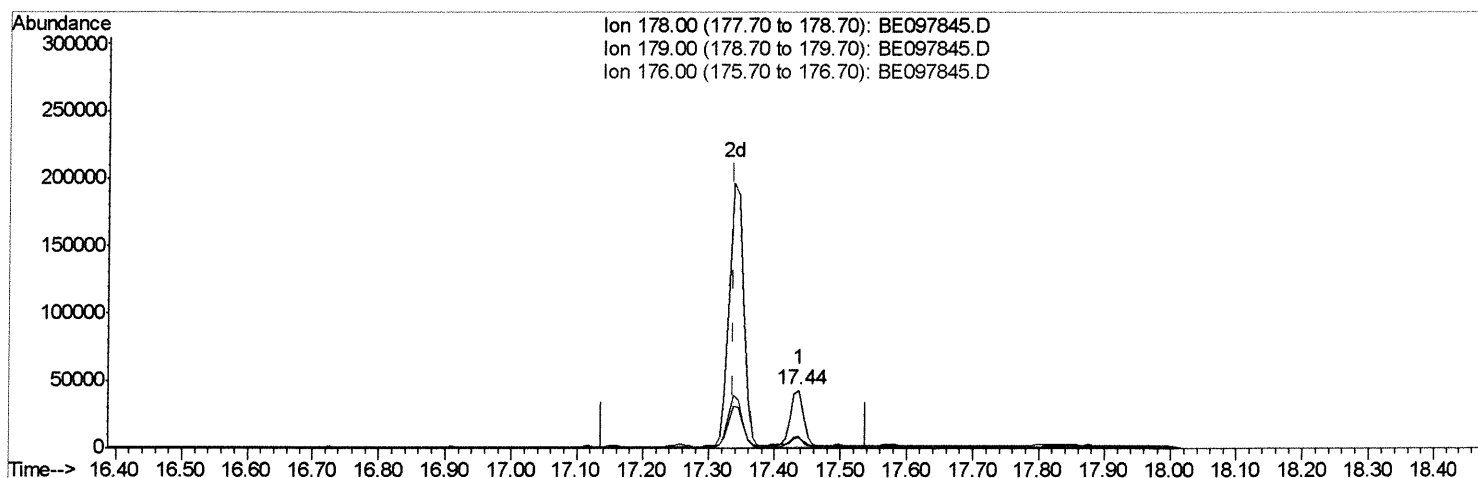
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 Operator : SJ/JU
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 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
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Manual Integrations
 APPROVED

Sohil
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TIC: BE097845.D

(12) Phenanthrene

17.436min (+0.098) 0.67ng/ul

response 59222

Ion	Exp%	Act%
178.00	100	100
179.00	16.00	18.30
176.00	18.60	19.84
0.00	0.00	0.00

Quantitation Report (Qedit)

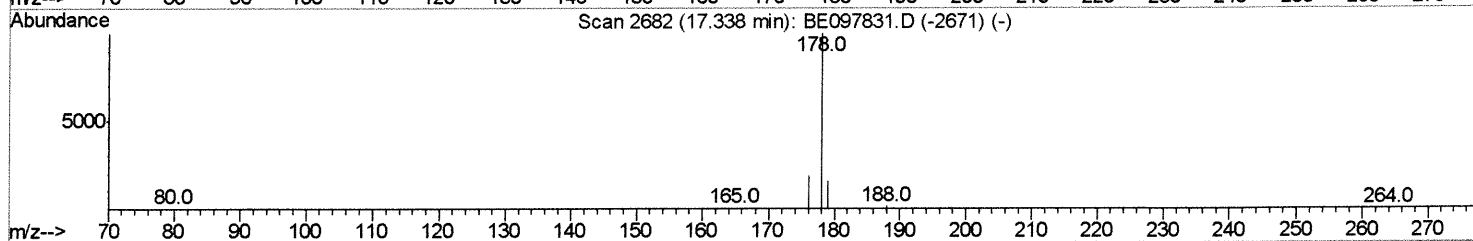
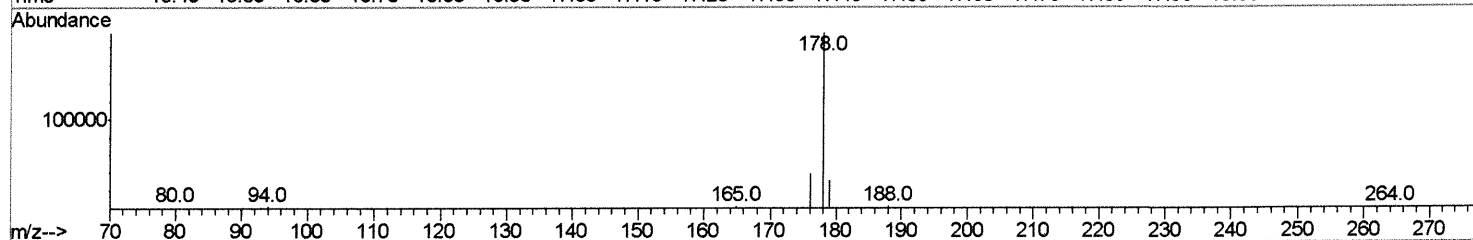
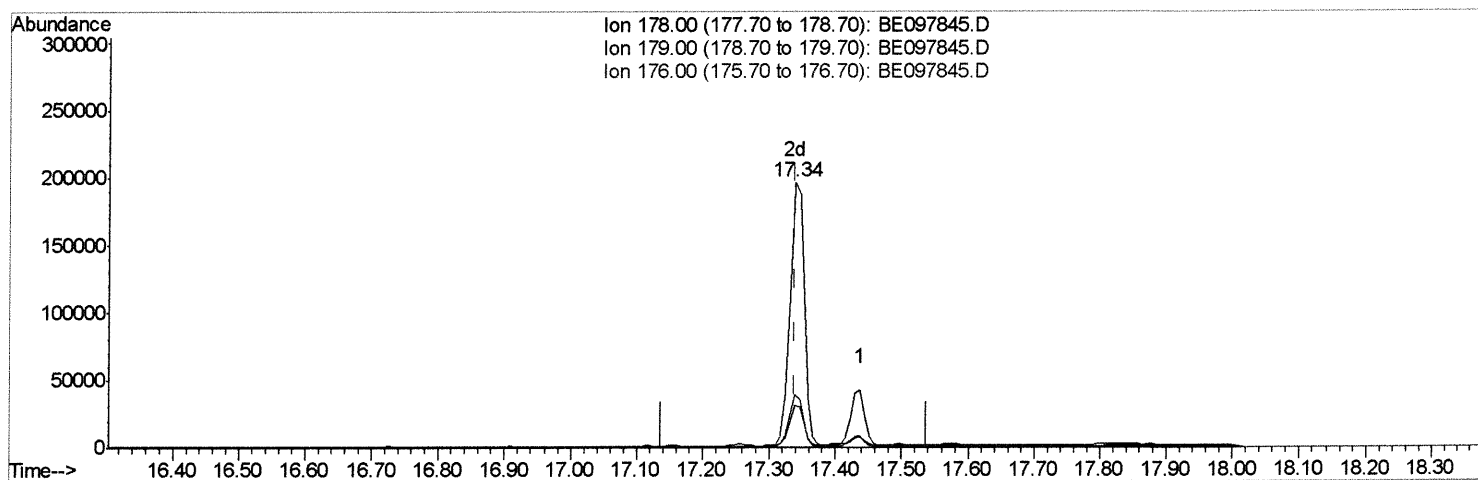
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Data File : BE097845.D
Acq On : 11 Oct 2018 1:49
Operator : SJ/JU
Sample : J5183-08
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampled :
JLC47

Manual Integrations
APPROVED

Sohil
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TIC: BE097845.D

(12) Phenanthrene

17.337min (-0.001) 3.31ng/ul m) SJ 10/16/18

response 293201

Ion	Exp%	Act%
178.00	100	100
179.00	16.00	15.86
176.00	18.60	19.95
0.00	0.00	0.00

Quantitation Report (Qedit)

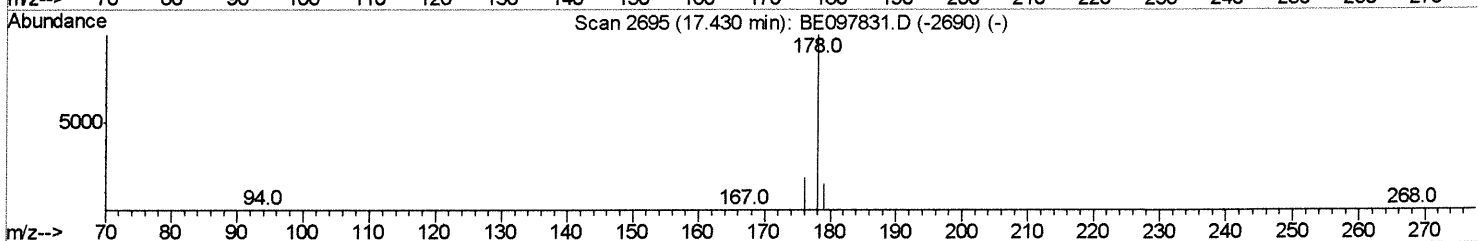
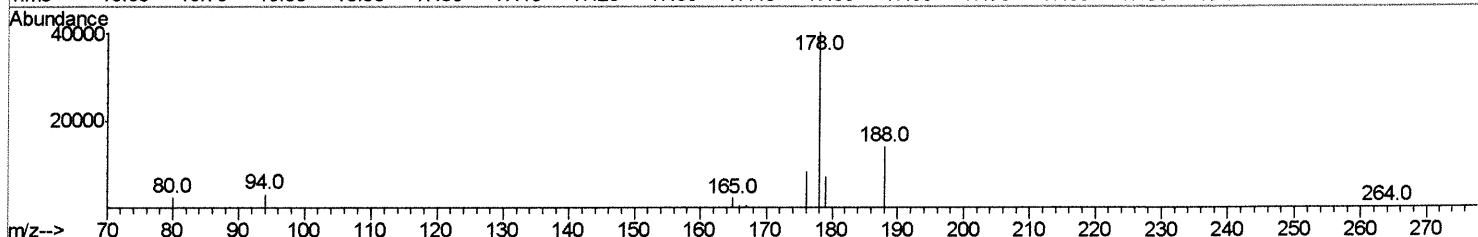
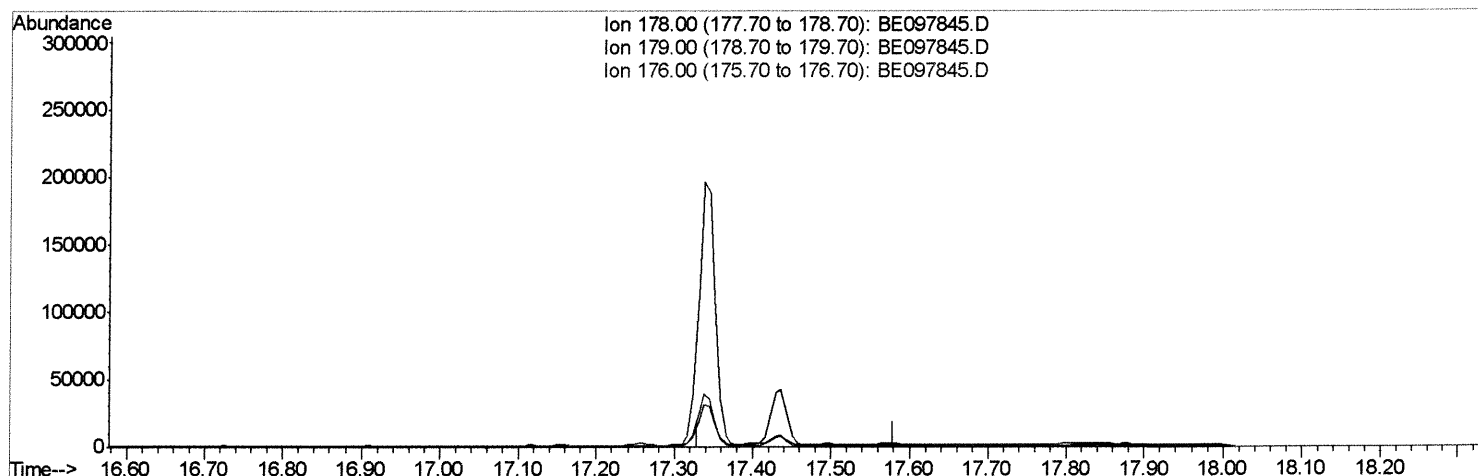
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 Operator : SJ/JU
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 ALS Vial : 27 Sample Multiplier: 1

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 ClientSampleId :
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Manual Integrations
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Sohil
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(13) Anthracene

17.430min (-17.430) 0.00ng/ul

response 0

Ion	Exp%	Act%
178.00	100	0.00
179.00	16.10	0.00#
176.00	19.40	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

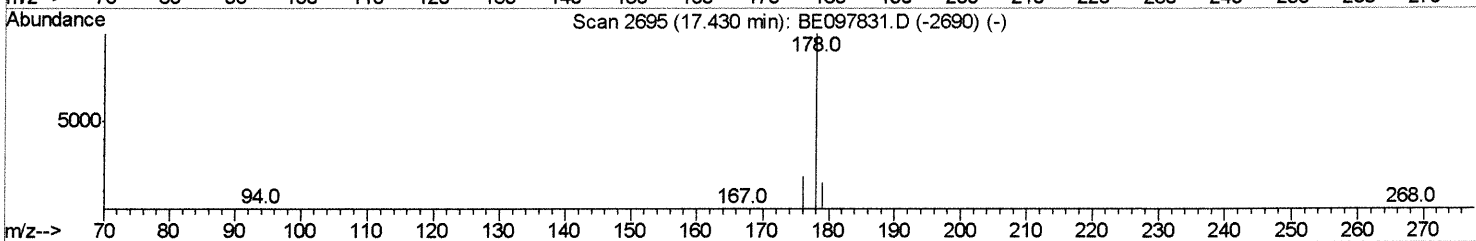
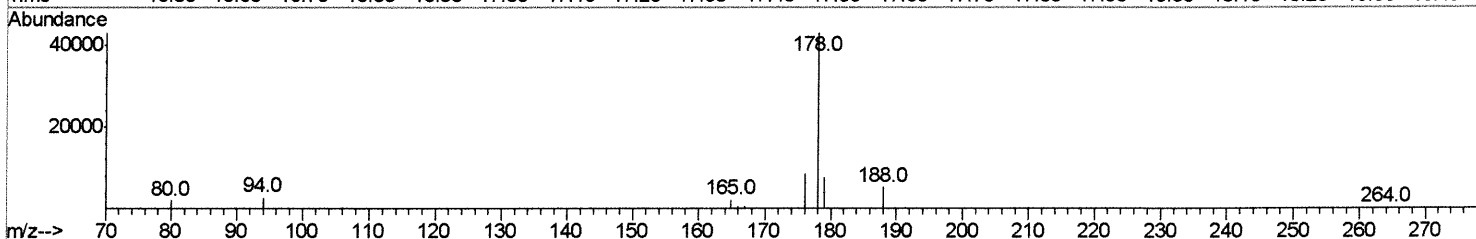
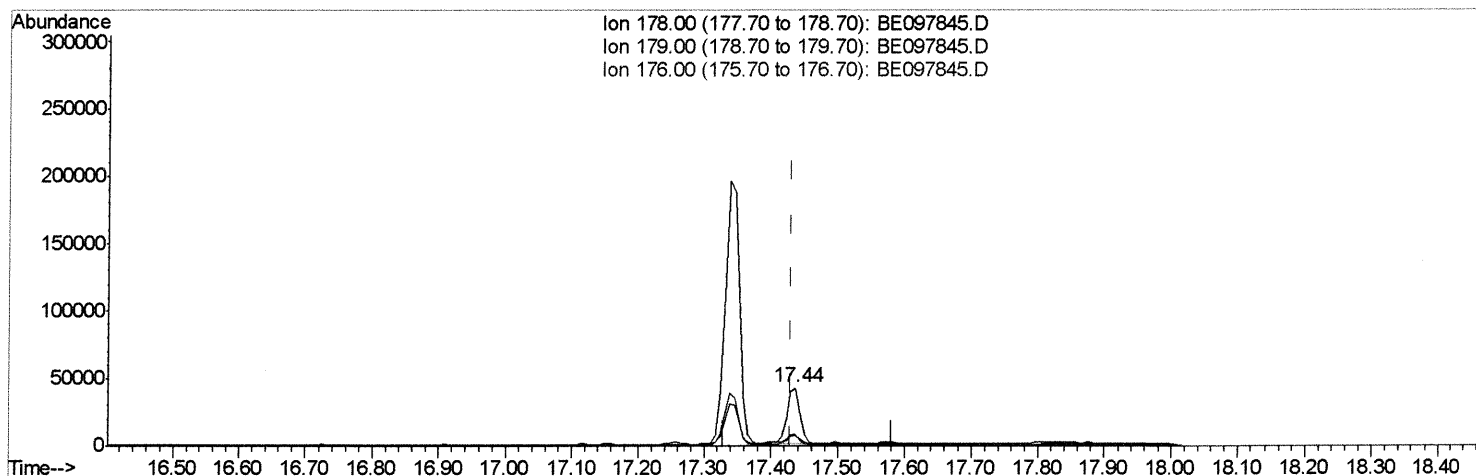
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 Acq On : 11 Oct 2018 1:49
 Operator : SJ/JU
 Sample : J5183-08
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
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Manual Integrations
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TIC: BE097845.D

(13) Anthracene

17.436min (+0.006) 0.77ng/ul m > SJ 10/16/18

response 58026

Ion	Exp%	Act%
178.00	100	100
179.00	16.10	18.30
176.00	19.40	19.84
0.00	0.00	0.00

Quantitation Report (Qedit)

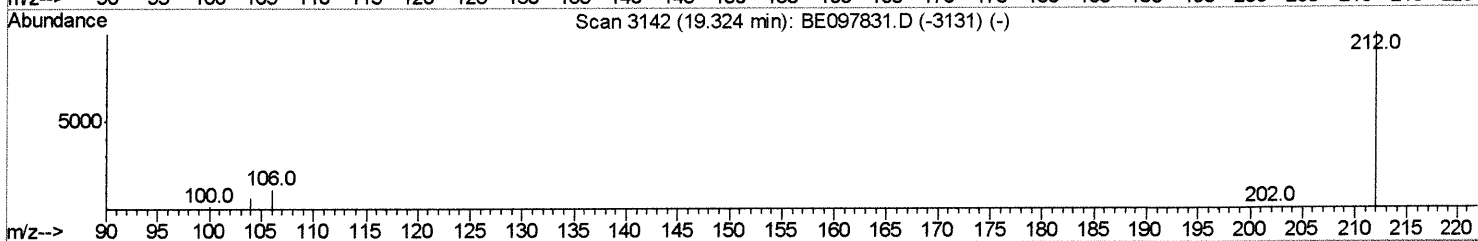
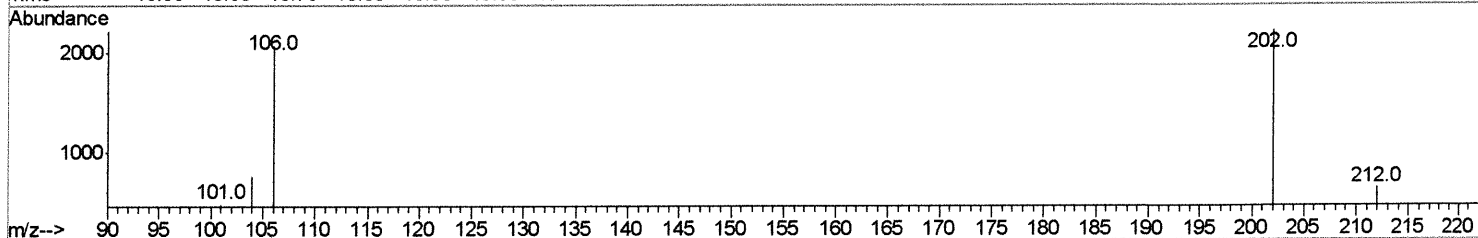
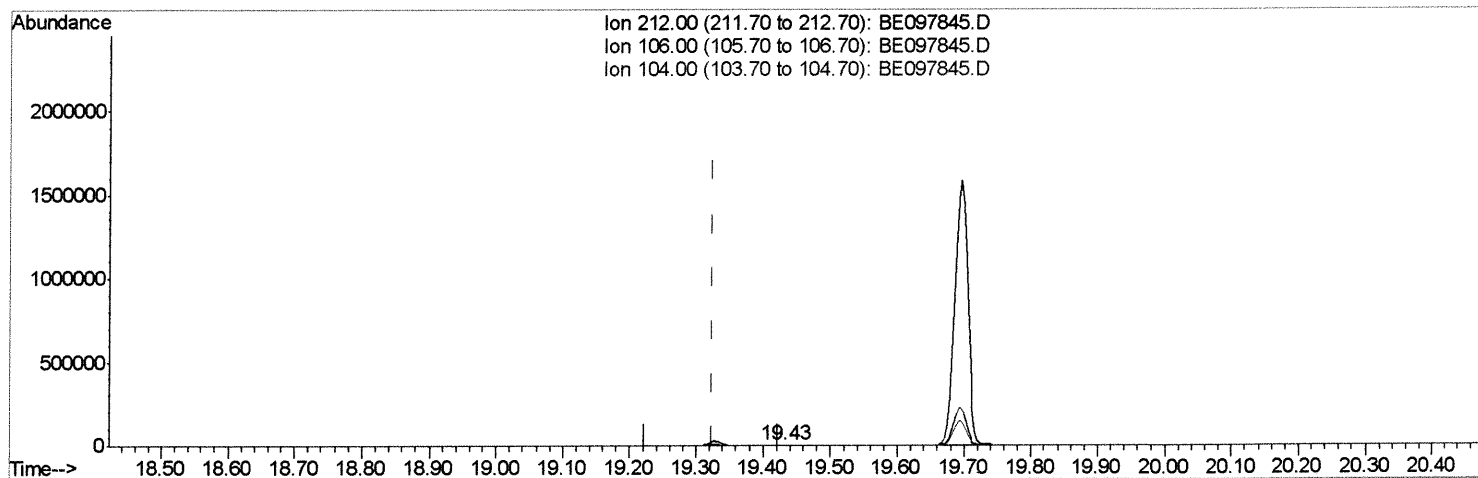
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 ALS Vial : 27 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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TIC: BE097845.D

(14) Fluoranthene-d10 (SURR)

19.431min (+0.107) 0.00ng/ul

response 245

Ion	Exp%	Act%
212.00	100	100
106.00	10.20	155.51#
104.00	5.80	80.41#
0.00	0.00	0.00

Quantitation Report (Qedit)

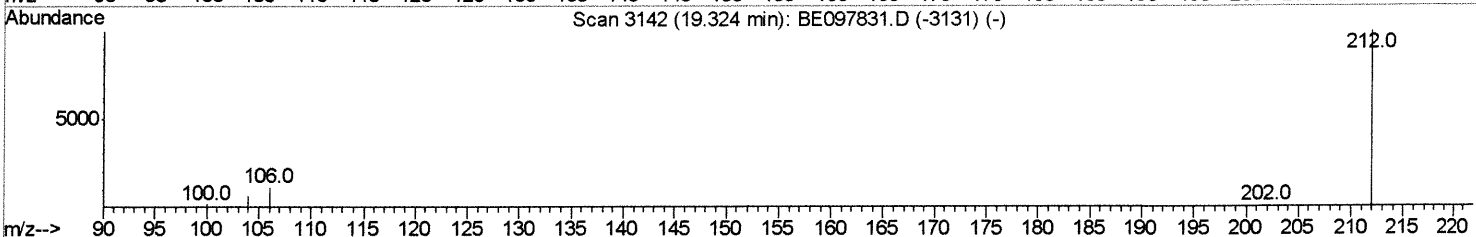
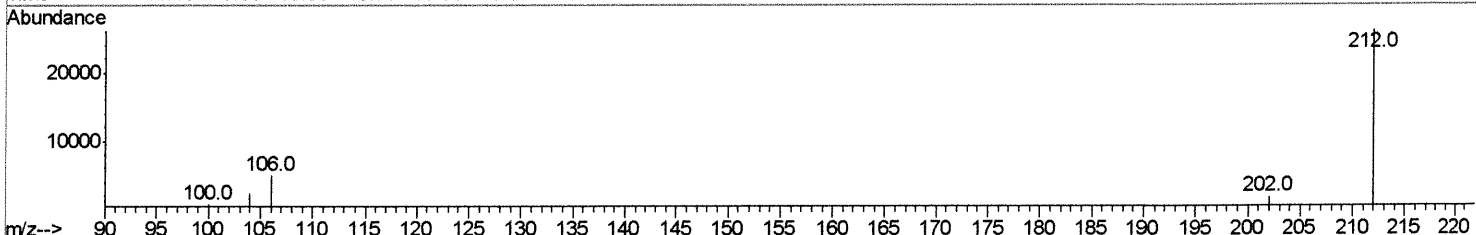
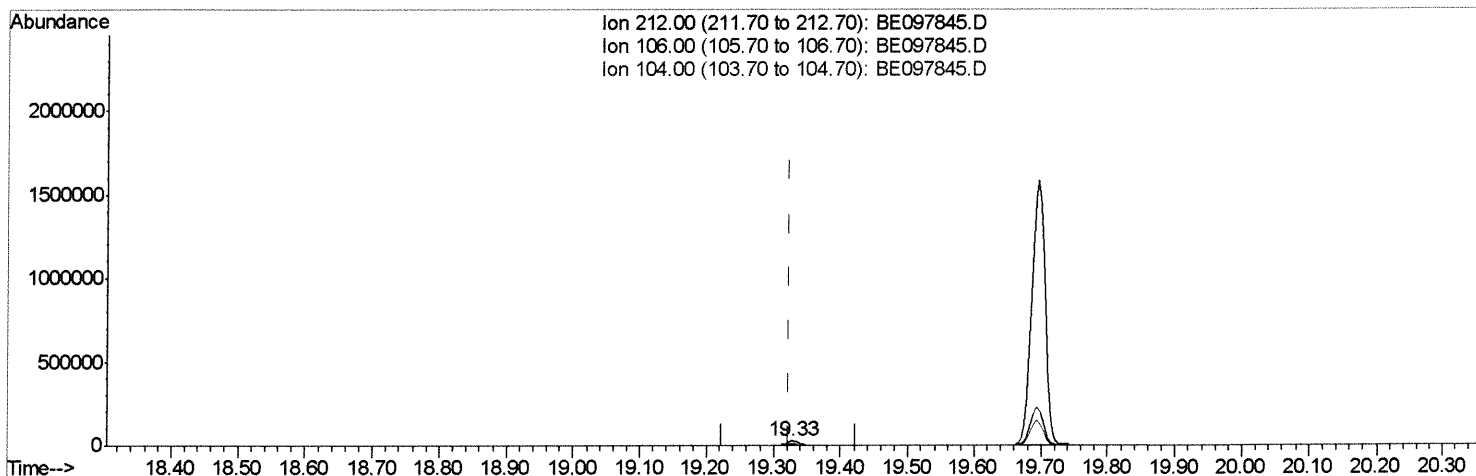
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
 Data File : BE097845.D
 Acq On : 11 Oct 2018 1:49
 Operator : SJ/JU
 Sample : J5183-08
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 JLC47

Manual Integrations
 APPROVED

Sohil
 10/11/2018 5:33:59 PM

Quant Time: Oct 11 02:54:26 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE101018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 11 01:20:33 2018
 Response via : Initial Calibration



TIC: BE097845.D

(14) Fluoranthene-d10 (SURR)

19.327min (+0.003) 0.29ng/ul m> SJ 10/16/18

response 35145

Ion	Exp%	Act%
212.00	100	100
106.00	10.20	1.08#
104.00	5.80	0.56#
0.00	0.00	0.00

Quantitation Report (Qedit)

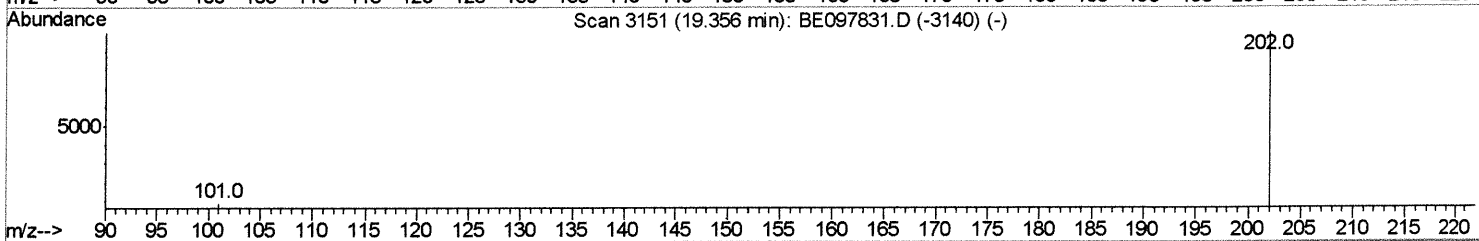
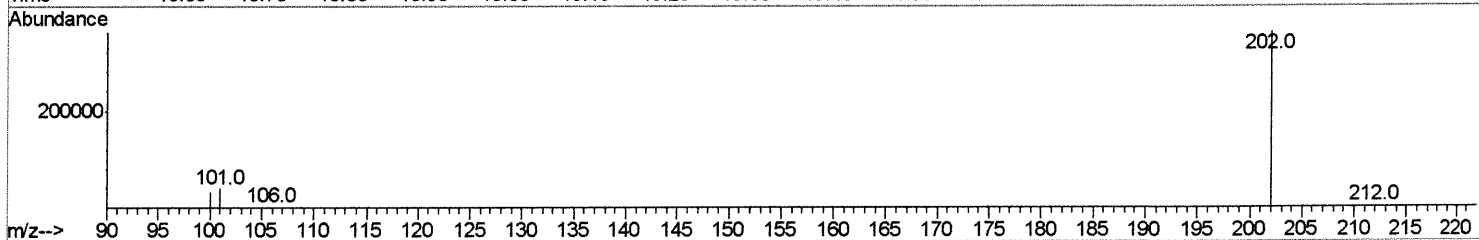
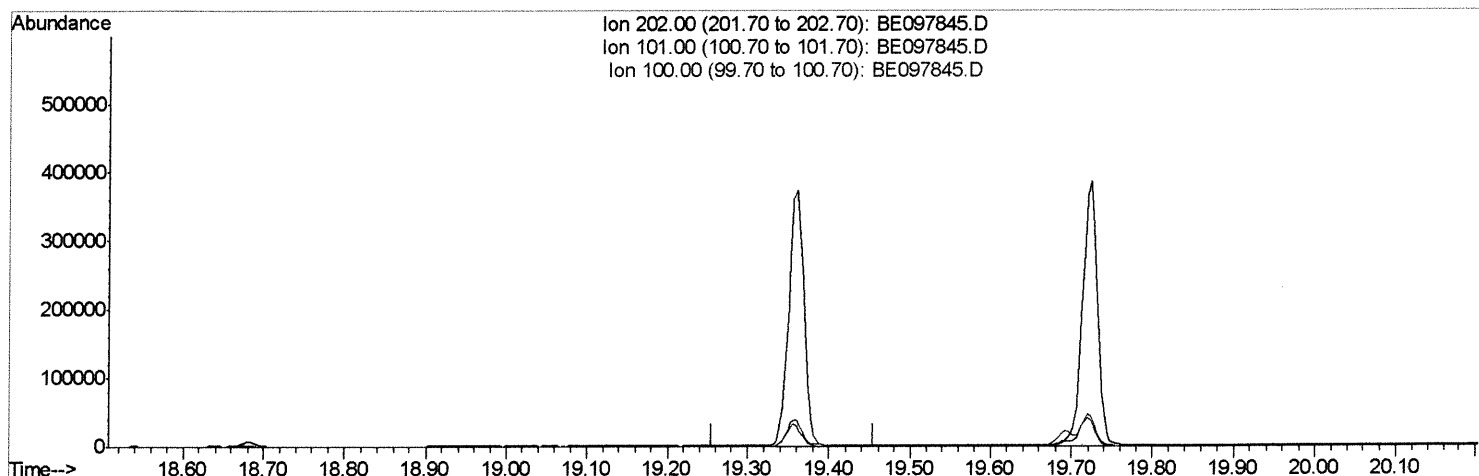
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
 Data File : BE097845.D
 Acq On : 11 Oct 2018 1:49
 Operator : SJ/JU
 Sample : J5183-08
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
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Manual Integrations
 APPROVED

Sohil
 10/11/2018 5:33:59 PM

Quant Time: Oct 11 02:54:26 2018
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 QLast Update : Thu Oct 11 01:20:33 2018
 Response via : Initial Calibration



(15) Fluoranthene (C)

19.356min (-19.356) 0.00ng/ul

response 0

Ion	Exp%	Act%
202.00	100	0.00
101.00	9.30	0.00
100.00	7.50	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

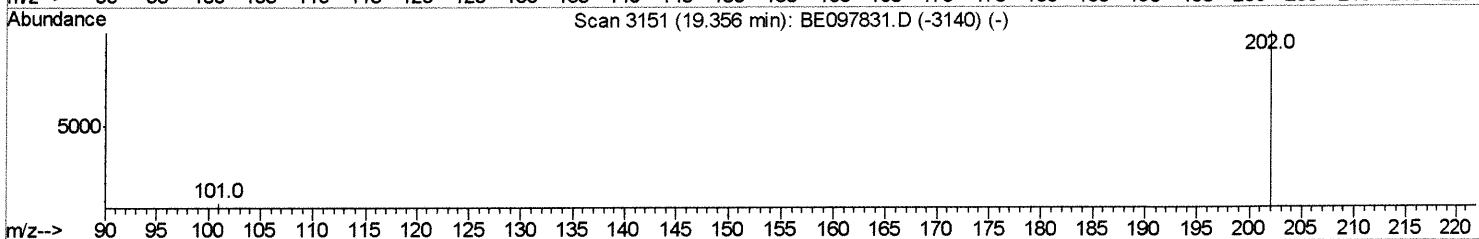
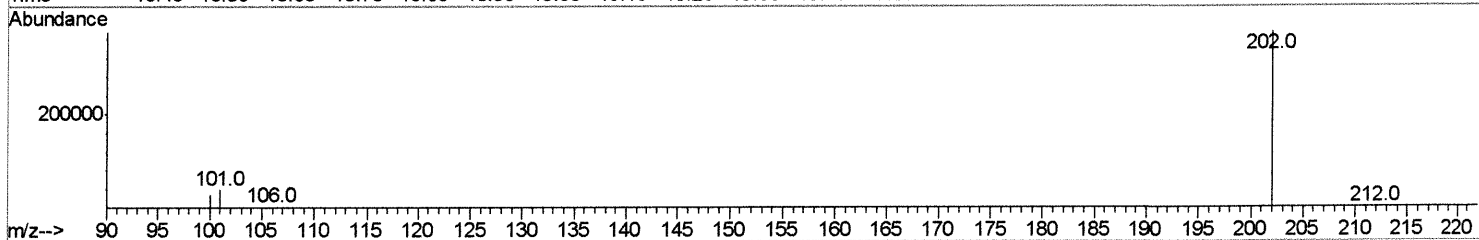
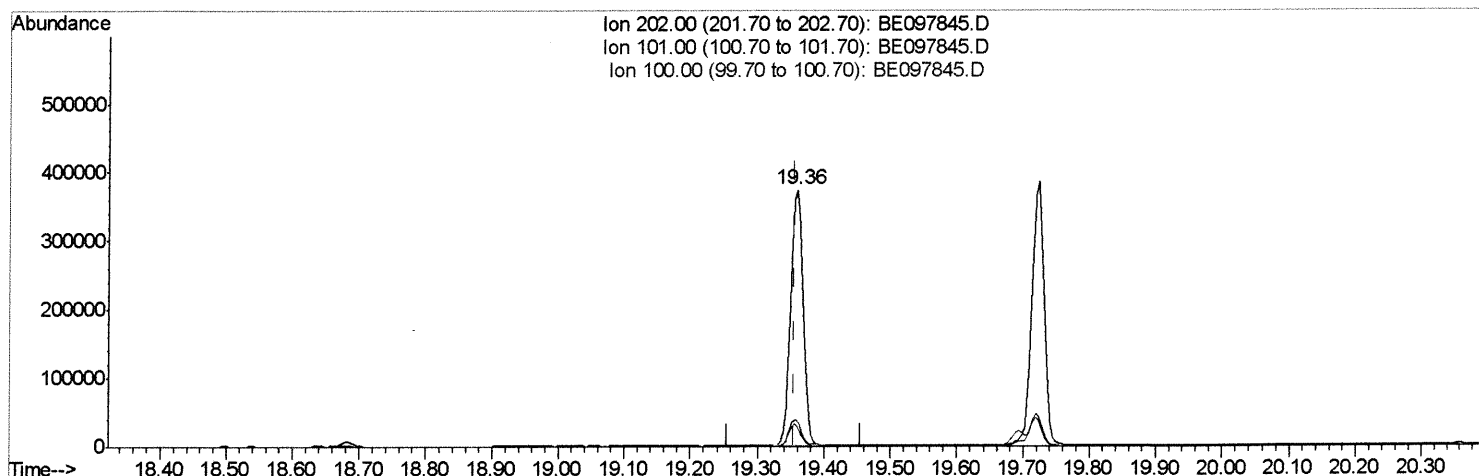
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 Acq On : 11 Oct 2018 1:49
 Operator : SJ/JU
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 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
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Manual Integrations
 APPROVED

Sohil
 10/11/2018 5:33:59 PM

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TIC: BE097845.D

(15) Fluoranthene (C)

19.359min (+0.003) 4.20ng/ul m> SJ 10/16/18

response 491094

Ion	Exp%	Act%
202.00	100	100
101.00	9.30	10.15
100.00	7.50	8.02
0.00	0.00	0.00

Quantitation Report (Qedit)

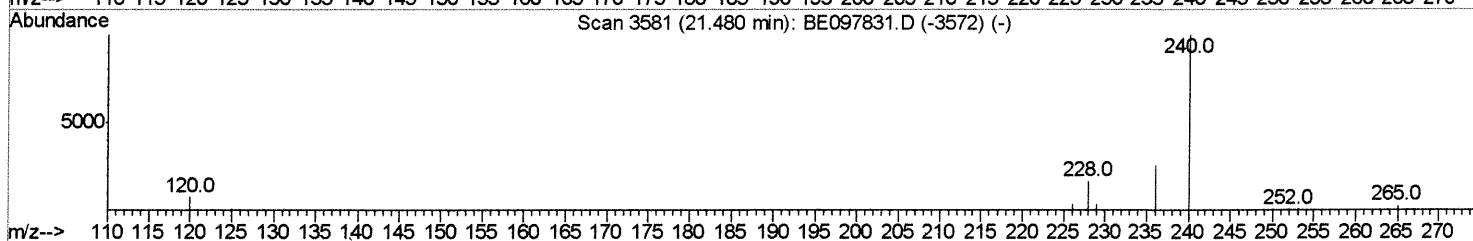
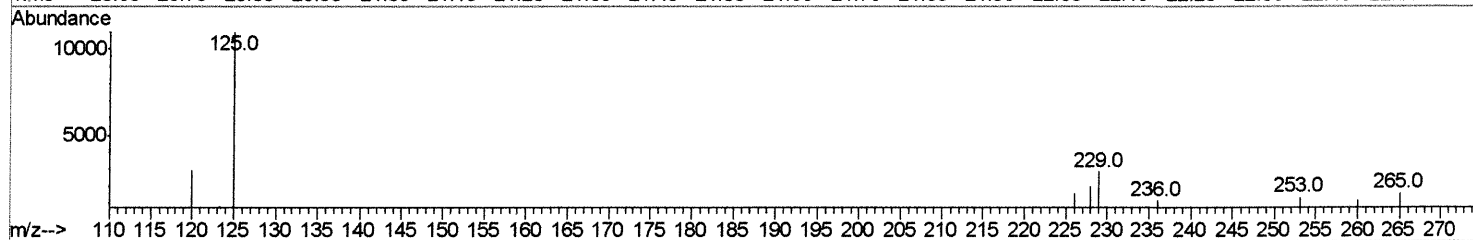
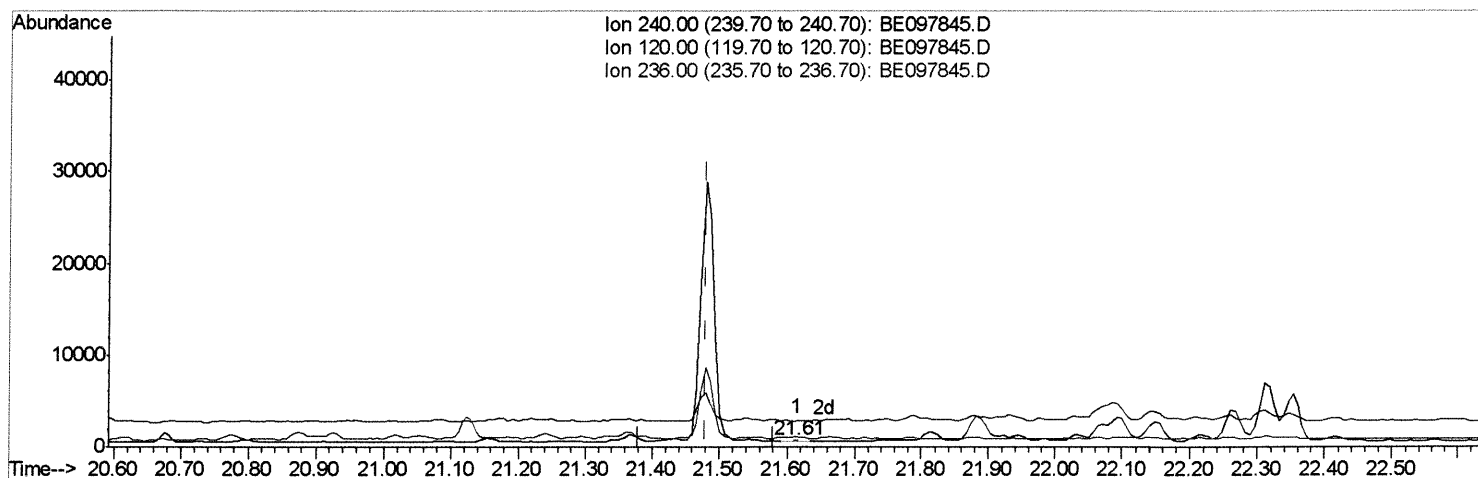
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(16) Chrysene-d12 (I)

21.614min (+0.134) 0.40ng/ul

response 212

Ion	Exp%	Act%
240.00	100	100
120.00	10.70	390.32#
236.00	27.00	155.65#
0.00	0.00	0.00

Quantitation Report (Qedit)

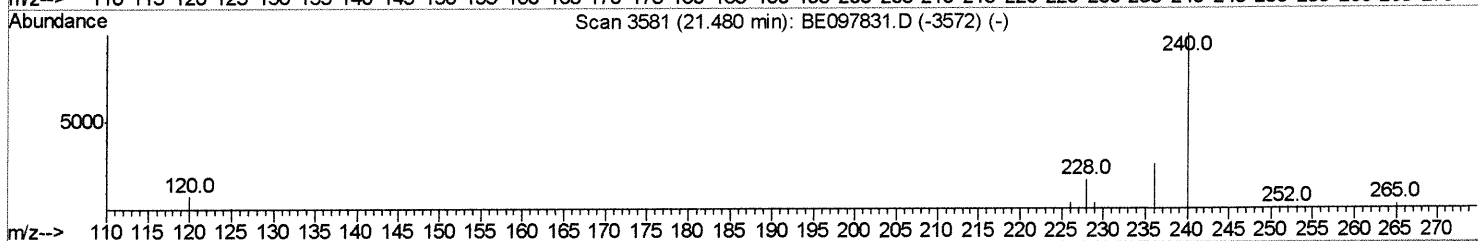
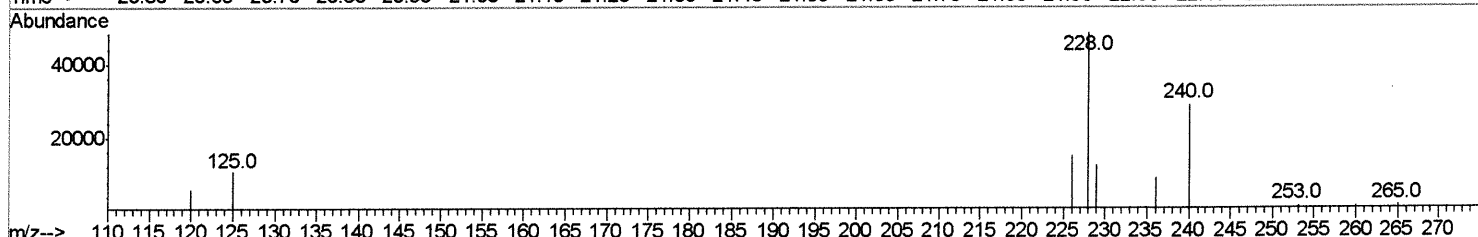
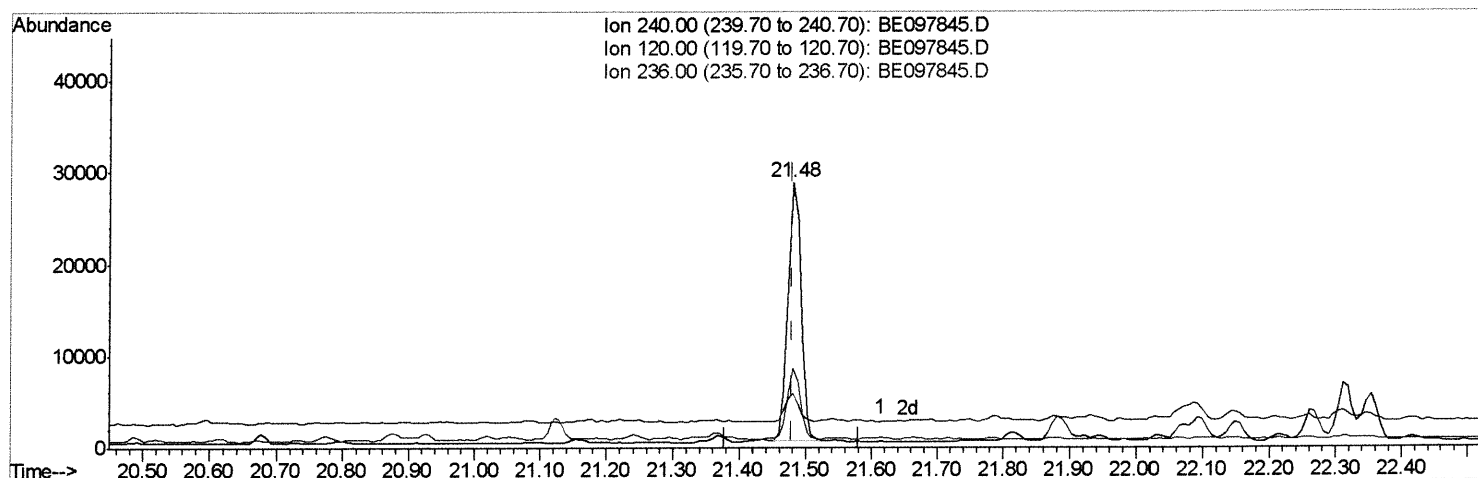
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Sample : J5183-08
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ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampled :
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Manual Integrations
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TIC: BE097845.D

(16) Chrysene-d12 (I)

21.480min (+0.000) 0.40ng/ul m > SJ 10/16/18

response 38201

Ion	Exp%	Act%
240.00	100	100
120.00	10.70	20.58#
236.00	27.00	30.18
0.00	0.00	0.00

Quantitation Report (Qedit)

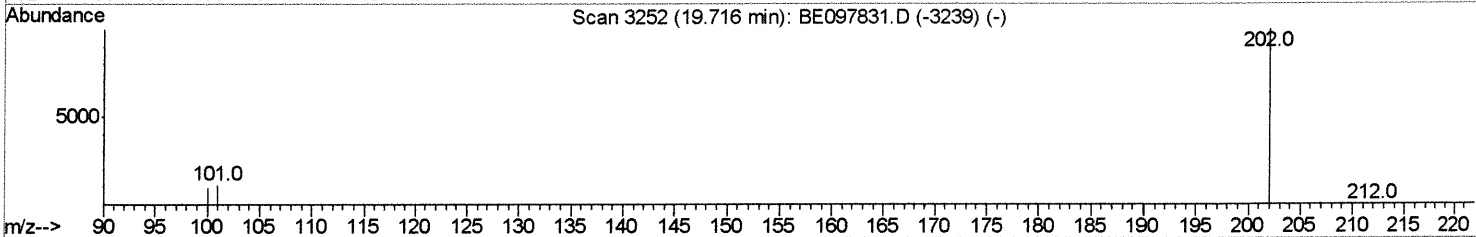
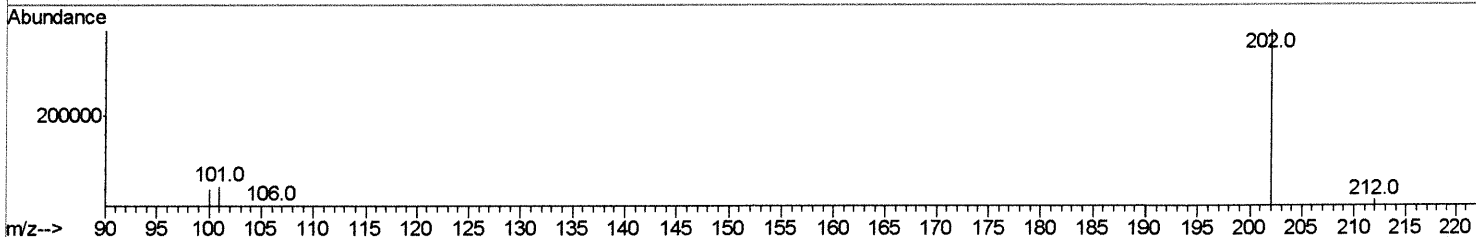
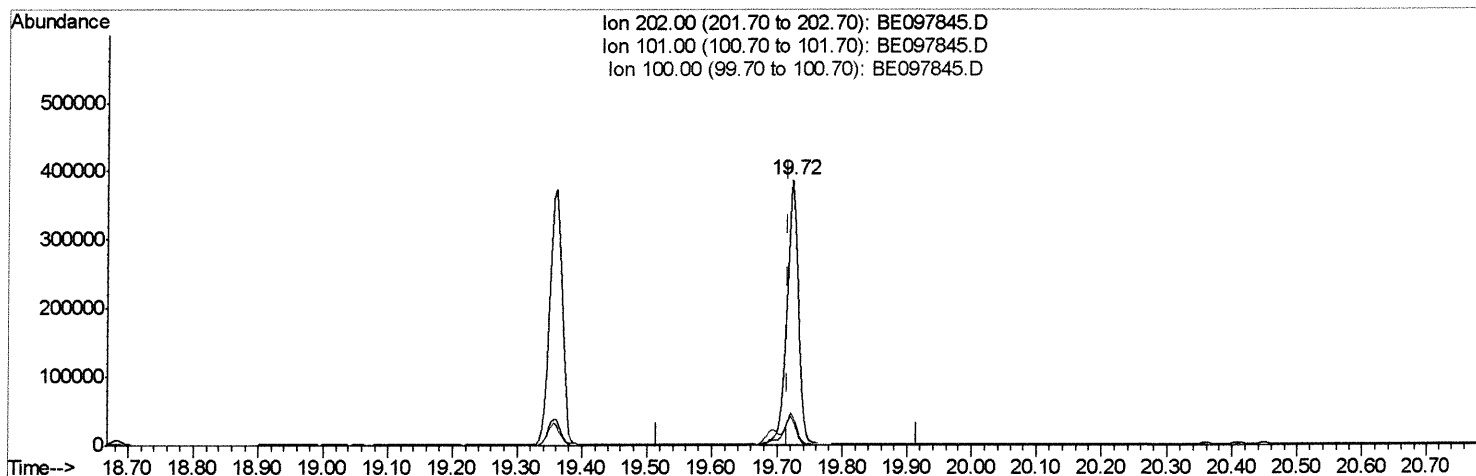
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TIC: BE097845.D

(17) Pyrene

19.723min (+0.007) 5.34ng/ul

response 501639

Ion	Exp%	Act%
202.00	100	100
101.00	11.00	11.59
100.00	9.90	9.91
0.00	0.00	0.00

Quantitation Report (Qedit)

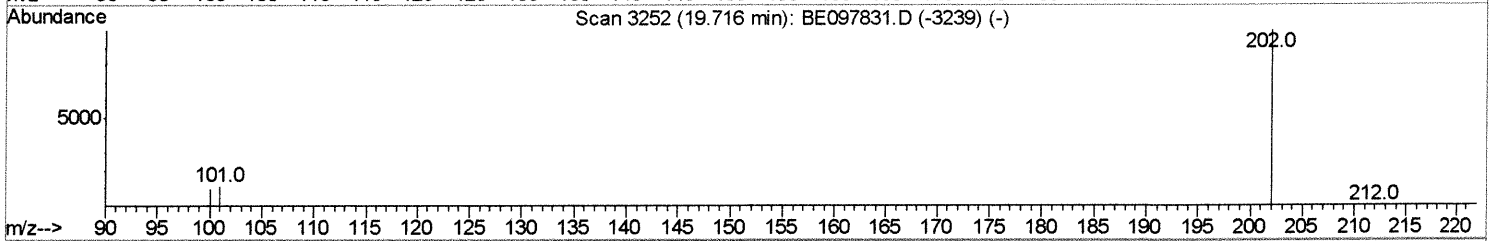
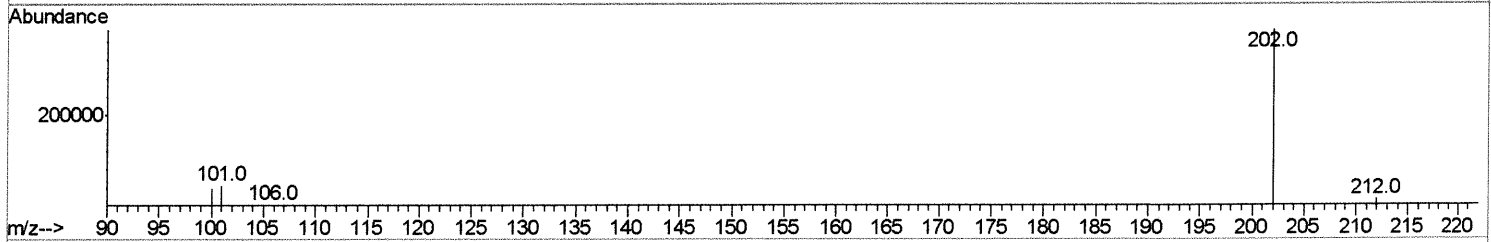
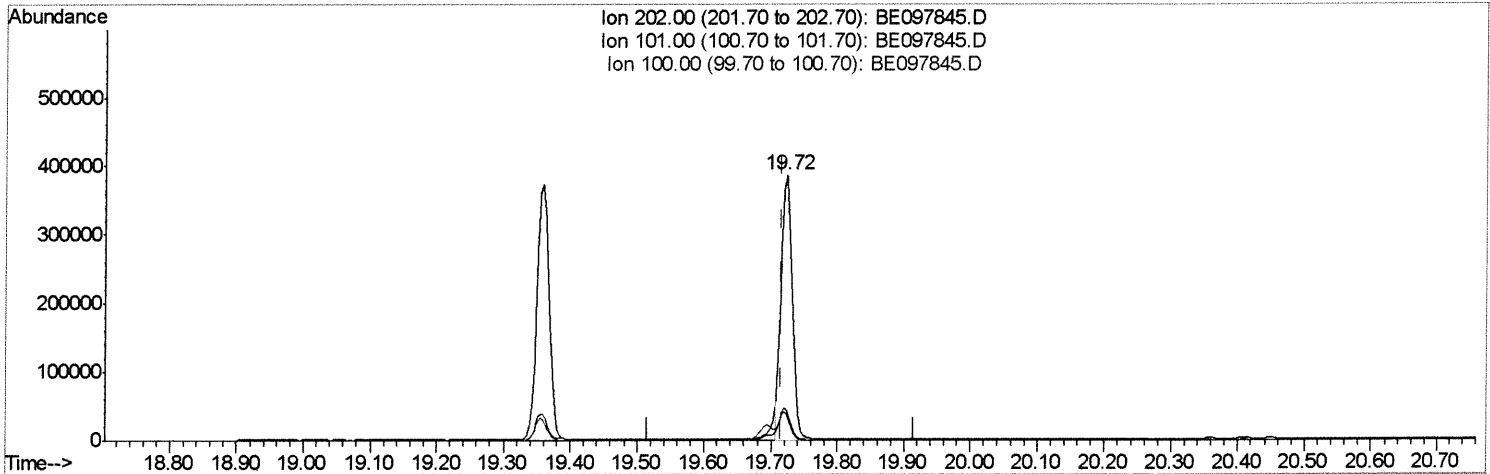
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
 Data File : BE097845.D
 Acq On : 11 Oct 2018 1:49
 Operator : SJ/JU
 Sample : J5183-08
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 JLC47

Manual Integrations
 APPROVED

Sohil
 10/11/2018 5:33:59 PM

Quant Time: Oct 11 02:55:37 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE101018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 11 01:20:33 2018
 Response via : Initial Calibration



TIC: BE097845.D

(17) Pyrene

19.723min (+0.007) 5.06ng/ul m > SJ 10/16/18

response 475092

Ion	Exp%	Act%
202.00	100	100
101.00	11.00	11.59
100.00	9.90	9.91
0.00	0.00	0.00

Quantitation Report (Qedit)

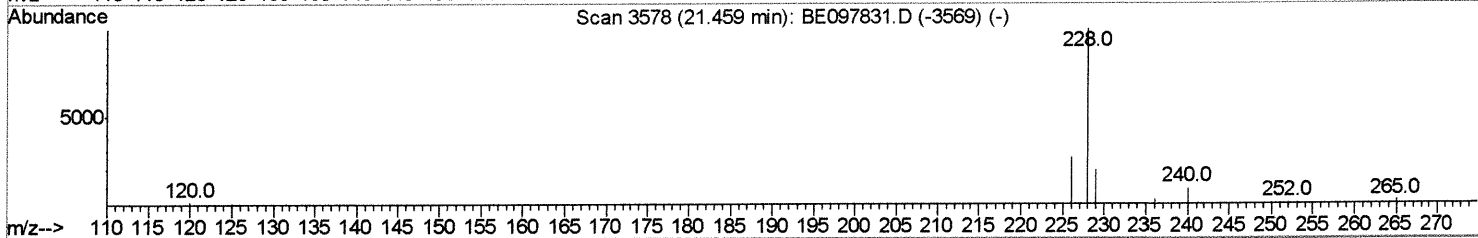
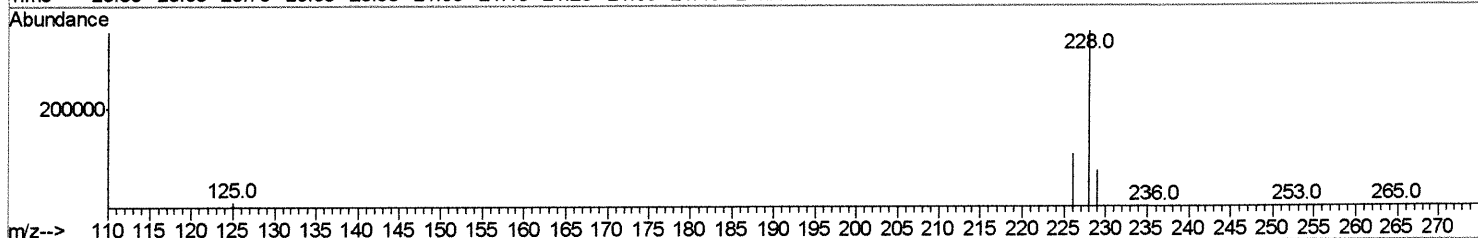
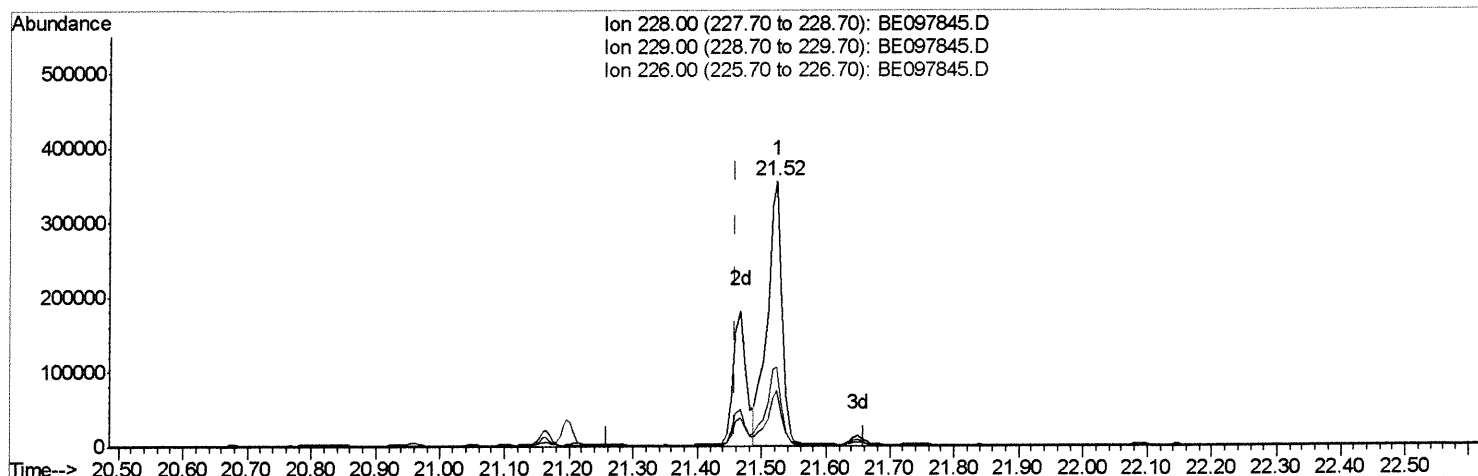
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
 Data File : BE097845.D
 Acq On : 11 Oct 2018 1:49
 Operator : SJ/JU
 Sample : J5183-08
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 JLC47

Manual Integrations
 APPROVED

Sohil
 10/11/2018 5:33:59 PM

Quant Time: Oct 11 02:55:37 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE101018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 11 01:20:33 2018
 Response via : Initial Calibration



(18) Benzo(a)anthracene
 21.522min (+0.063) 5.38ng/ul
 response 570505

Ion	Exp%	Act%
228.00	100	100
229.00	20.50	20.76
226.00	26.90	29.99
0.00	0.00	0.00

Quantitation Report (Qedit)

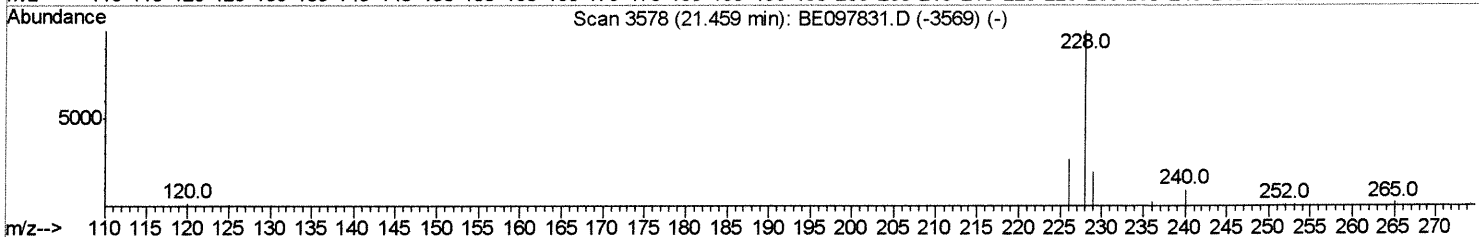
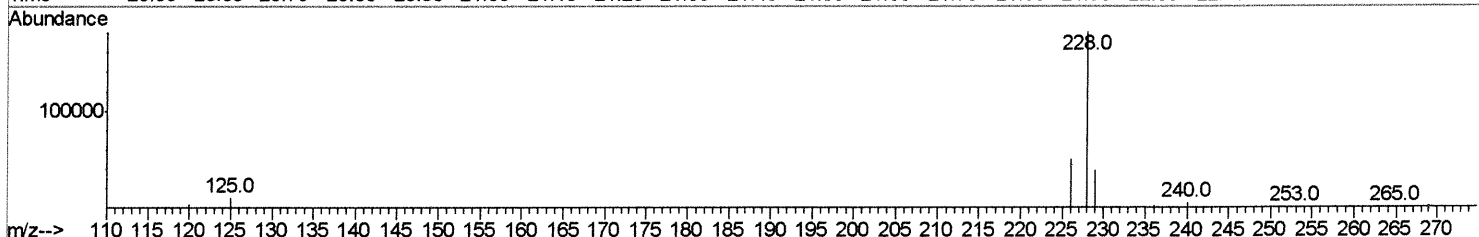
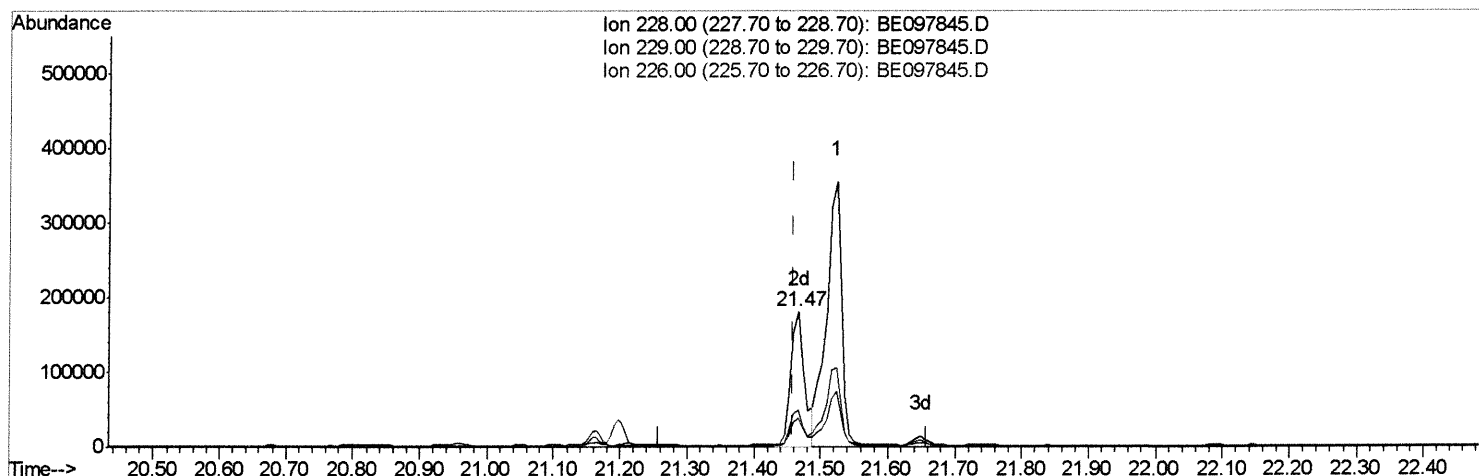
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
 Data File : BE097845.D
 Acq On : 11 Oct 2018 1:49
 Operator : SJ/JU
 Sample : J5183-08
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 JLC47

Manual Integrations
 APPROVED

Sohil
 10/11/2018 5:33:59 PM

Quant Time: Oct 11 02:55:37 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE101018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 11 01:20:33 2018
 Response via : Initial Calibration



TIC: BE097845.D

(18) Benzo(a)anthracene

21.466min (+0.007) 2.49ng/ul m> SJ 10/16/18

response 264485

Ion	Exp%	Act%
228.00	100	100
229.00	20.50	21.21
226.00	26.90	27.60
0.00	0.00	0.00

Quantitation Report (Qedit)

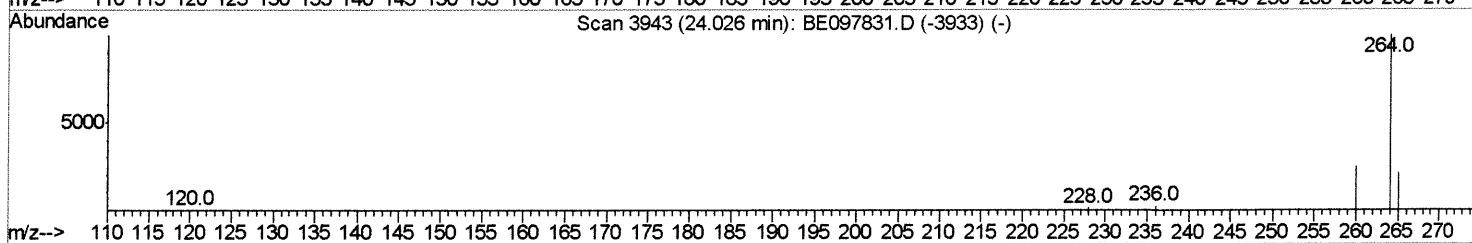
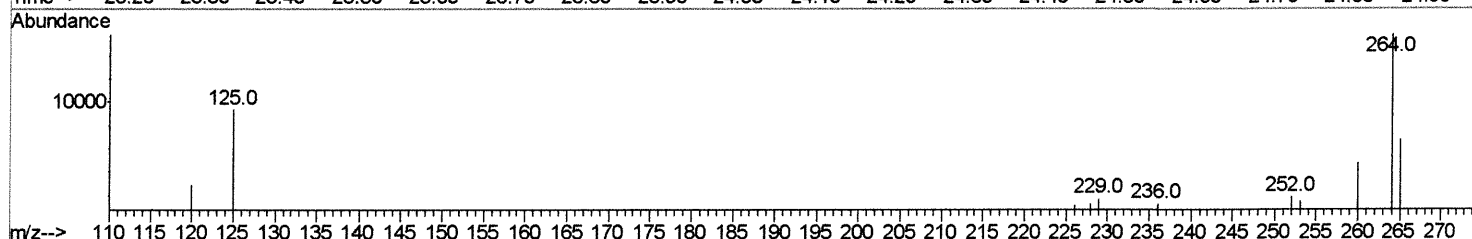
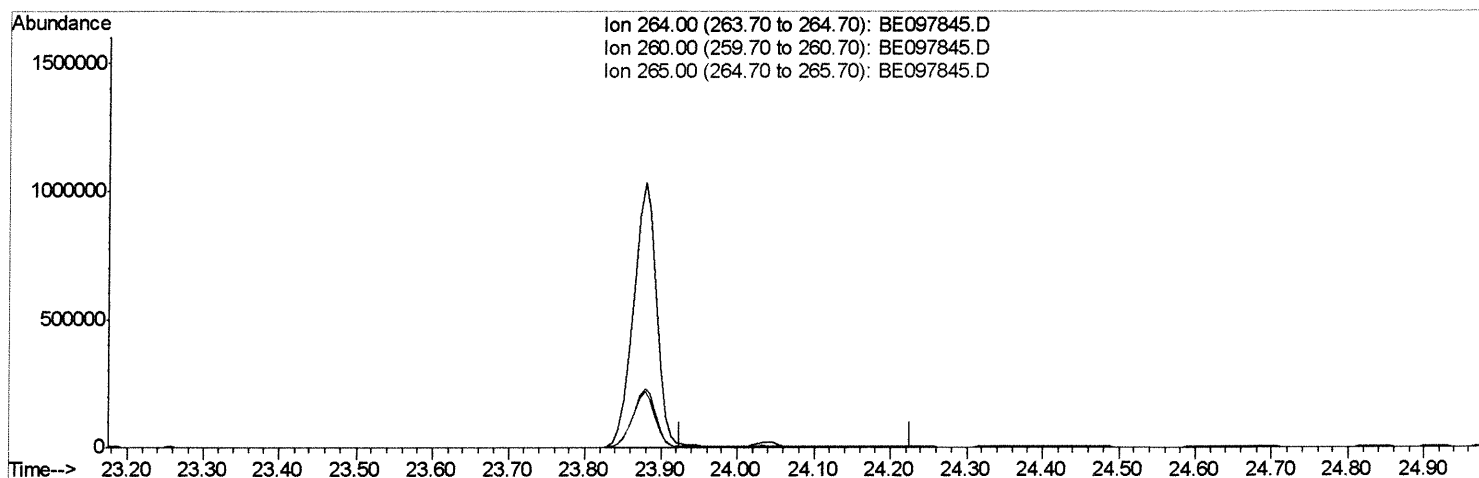
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
Data File : BE097845.D
Acq On : 11 Oct 2018 1:49
Operator : SJ/JU
Sample : J5183-08
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
JLC47

Manual Integrations
APPROVED

Sohil
10/11/2018 5:33:59 PM

Quant Time: Oct 11 02:55:37 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE101018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 11 01:20:33 2018
Response via : Initial Calibration



TIC: BE097845.D

(20) Perylene-d12 (I)

24.026min (-24.026) 0.00ng/ul

response 0

Ion	Exp%	Act%
264.00	100	0.00
260.00	25.40	0.00#
265.00	26.90	0.00#
0.00	0.00	0.00

Quantitation Report (Qedit)

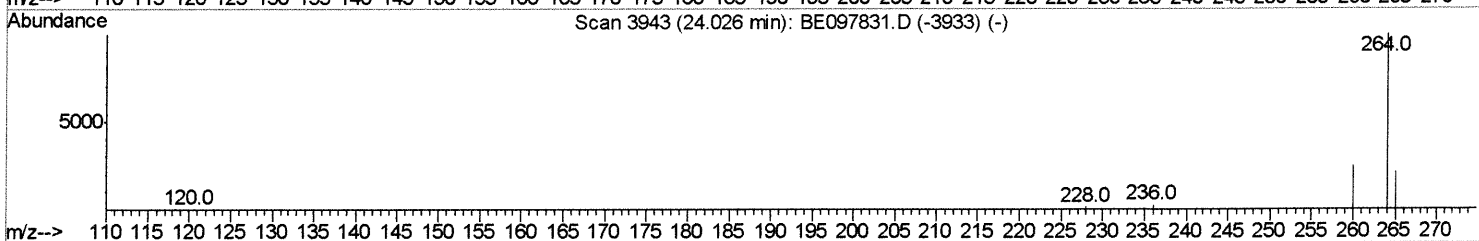
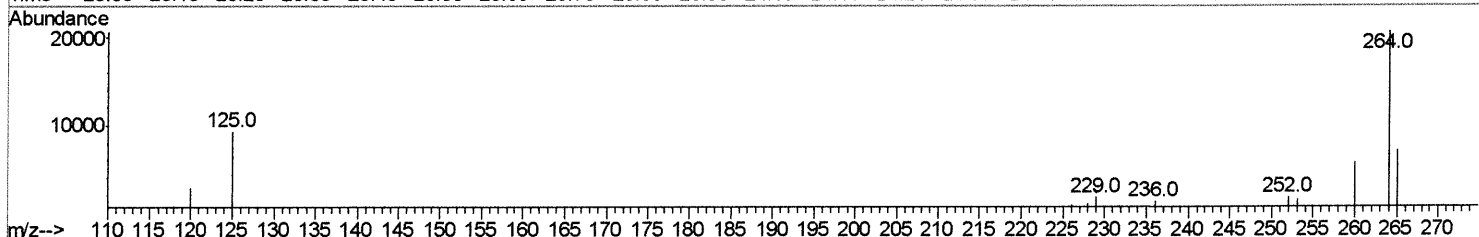
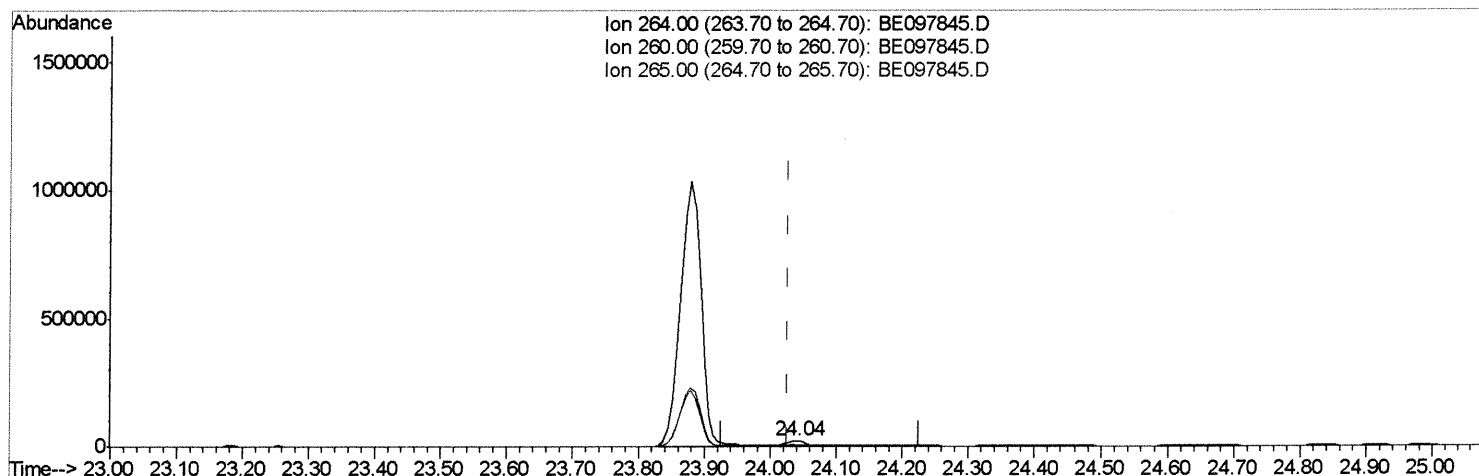
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
 Data File : BE097845.D
 Acq On : 11 Oct 2018 1:49
 Operator : SJ/JU
 Sample : J5183-08
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 JLC47

Manual Integrations
 APPROVED

Sohil
 10/11/2018 5:33:59 PM

Quant Time: Oct 11 02:55:37 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE101018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 11 01:20:33 2018
 Response via : Initial Calibration



TIC: BE097845.D

(20) Perylene-d12 (I)

24.04min (+0.014) 0.40ng/ul m > SJ 10/16/18

response 34863

Ion	Exp%	Act%
264.00	100	100
260.00	25.40	27.87
265.00	26.90	34.35#
0.00	0.00	0.00

Quantitation Report (Qedit)

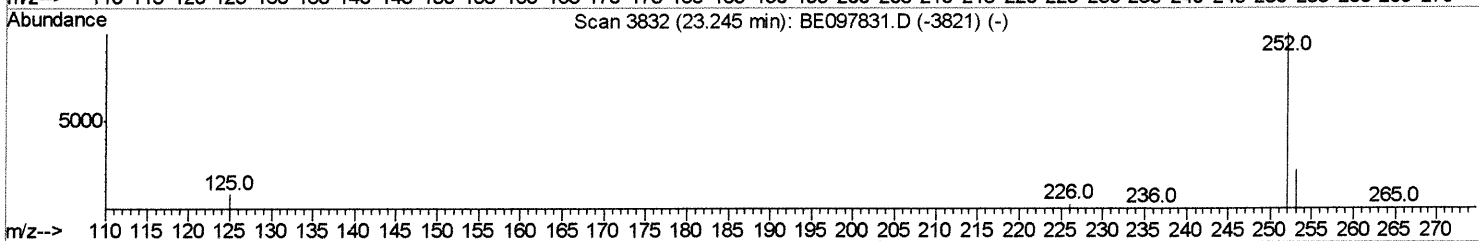
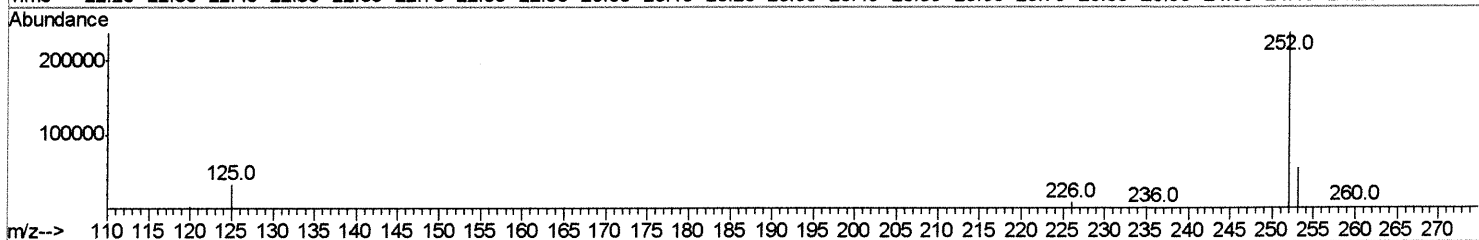
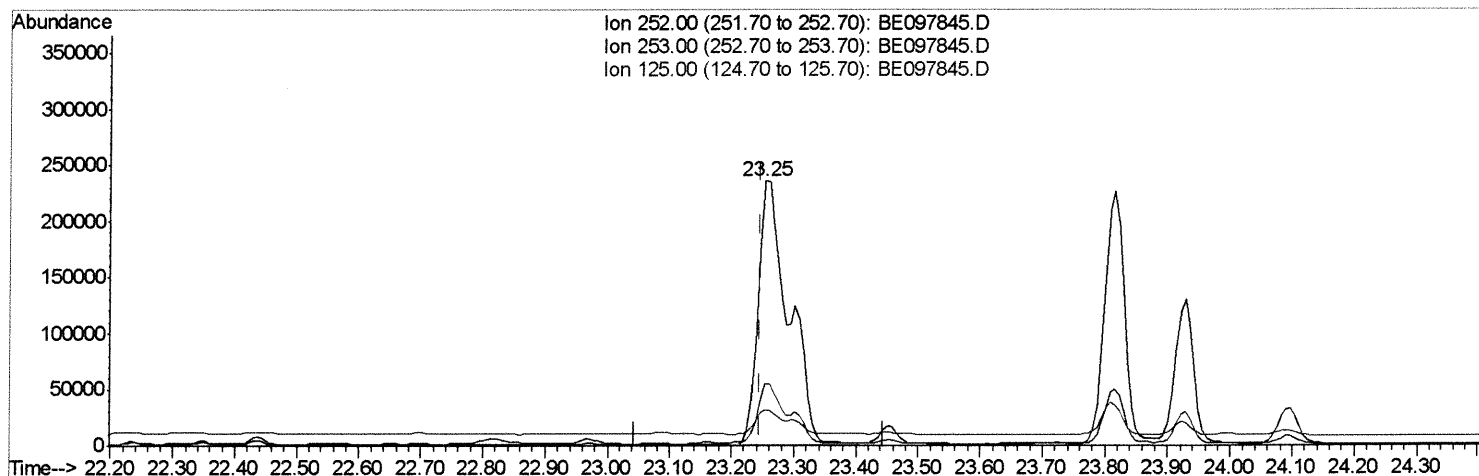
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
Data File : BE097845.D
Acq On : 11 Oct 2018 1:49
Operator : SJ/JU
Sample : J5183-08
Misc :
ALS Vial : 27 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
JLC47

Manual Integrations
APPROVED

Sohil
10/11/2018 5:33:59 PM

Quant Time: Oct 11 02:56:36 2018
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE101018.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Oct 11 01:20:33 2018
Response via : Initial Calibration



TIC: BE097845.D

(21) Benzo(b)fluoranthene

23.252min (+0.007) 8.95ng/ul

response 806321

Ion	Exp%	Act%
252.00	100	100
253.00	23.50	23.14
125.00	9.10	13.70
0.00	0.00	0.00

Quantitation Report (Qedit)

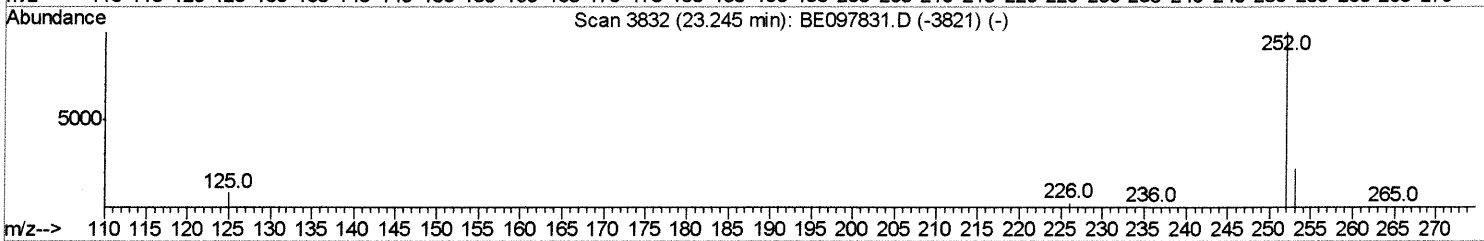
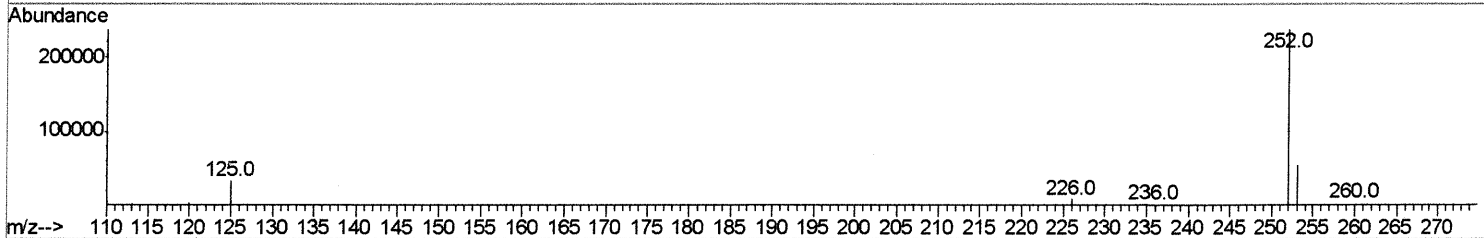
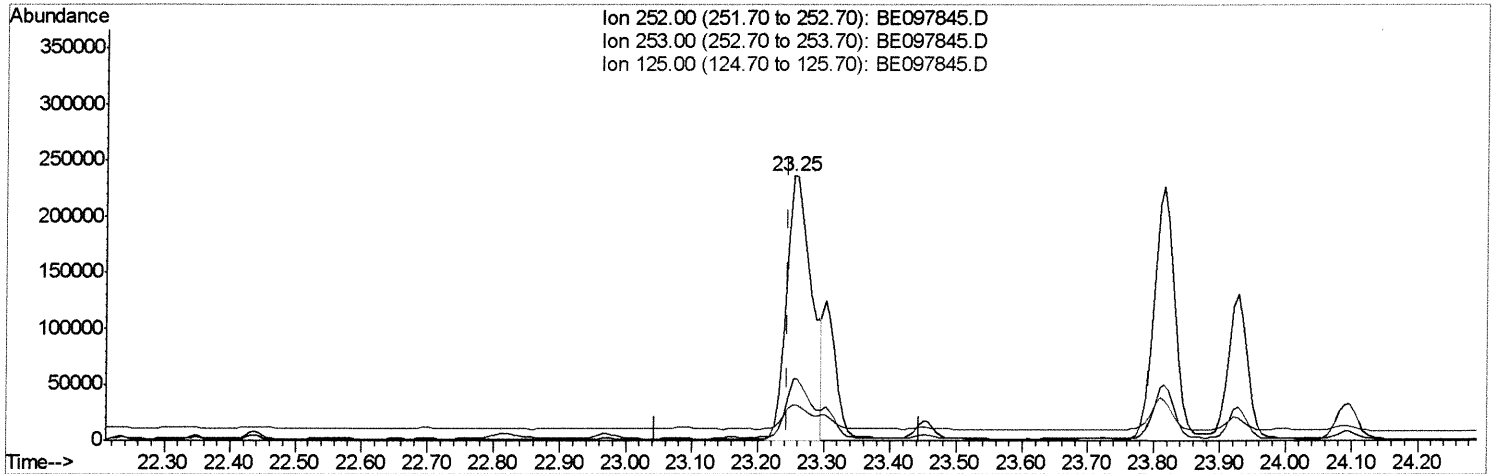
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
 Data File : BE097845.D
 Acq On : 11 Oct 2018 1:49
 Operator : SJ/JU
 Sample : J5183-08
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 JLC47

Manual Integrations
 APPROVED

Sohil
 10/11/2018 5:33:59 PM

Quant Time: Oct 11 02:56:36 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE101018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 11 01:20:33 2018
 Response via : Initial Calibration



TIC: BE097845.D

(21) Benzo(b)fluoranthene

23.252min (+0.007) 7.06ng/ul m > SJ 10/16/18

response 636260

Ion	Exp%	Act%
252.00	100	100
253.00	23.50	23.14
125.00	9.10	13.70
0.00	0.00	0.00

Quantitation Report (Qedit)

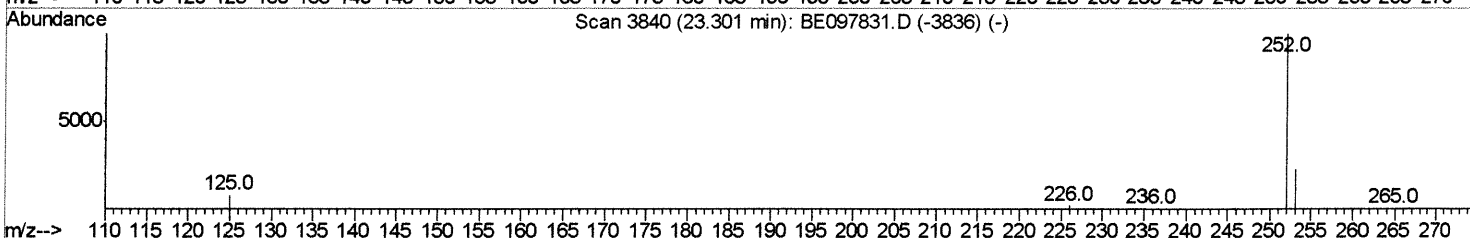
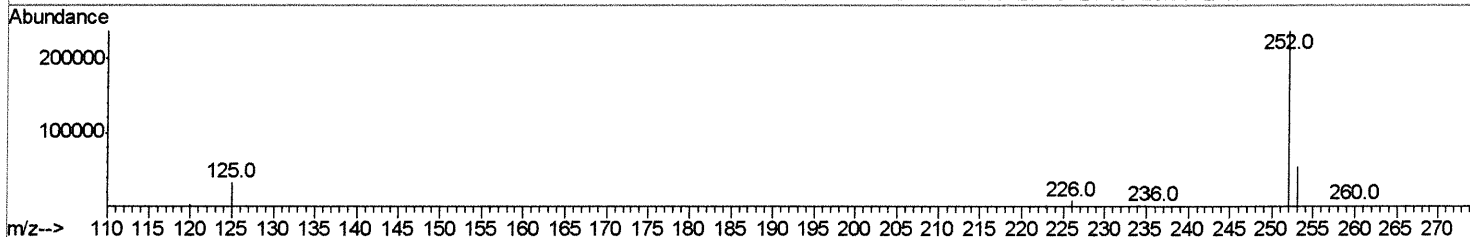
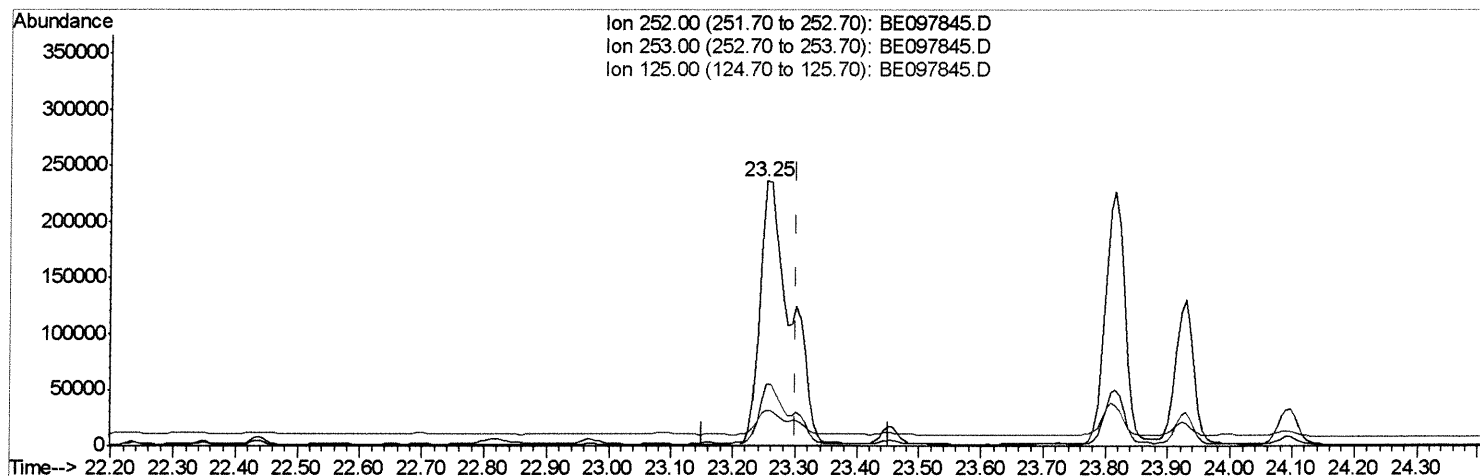
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
 Data File : BE097845.D
 Acq On : 11 Oct 2018 1:49
 Operator : SJ/JU
 Sample : J5183-08
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 JLC47

Manual Integrations
 APPROVED

Sohil
 10/11/2018 5:33:59 PM

Quant Time: Oct 11 02:56:36 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE101018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 11 01:20:33 2018
 Response via : Initial Calibration



TIC: BE097845.D

(22) Benzo(k)fluoranthene
 23.252min (-0.049) 7.90ng/ul
 response 806321

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	23.14
125.00	11.70	13.70
0.00	0.00	0.00

Quantitation Report (Qedit)

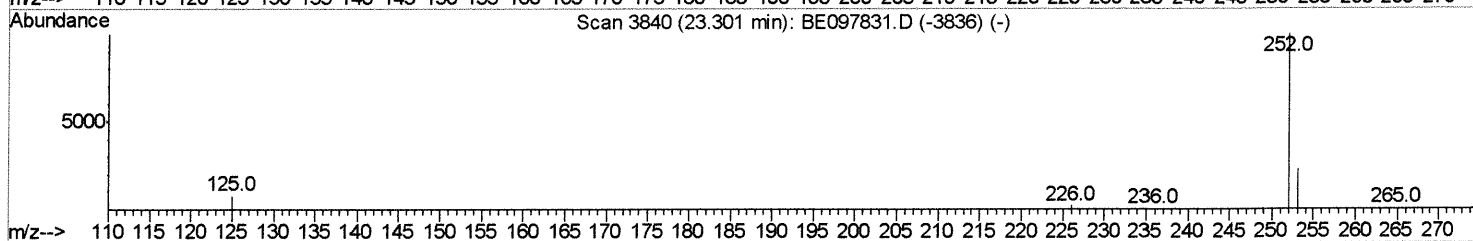
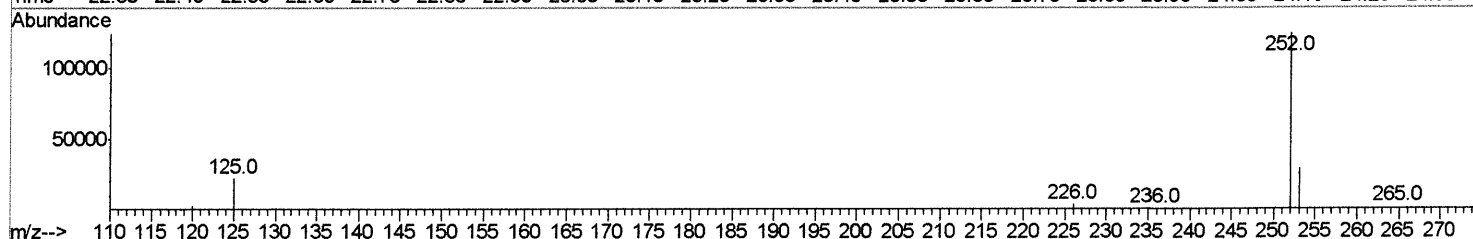
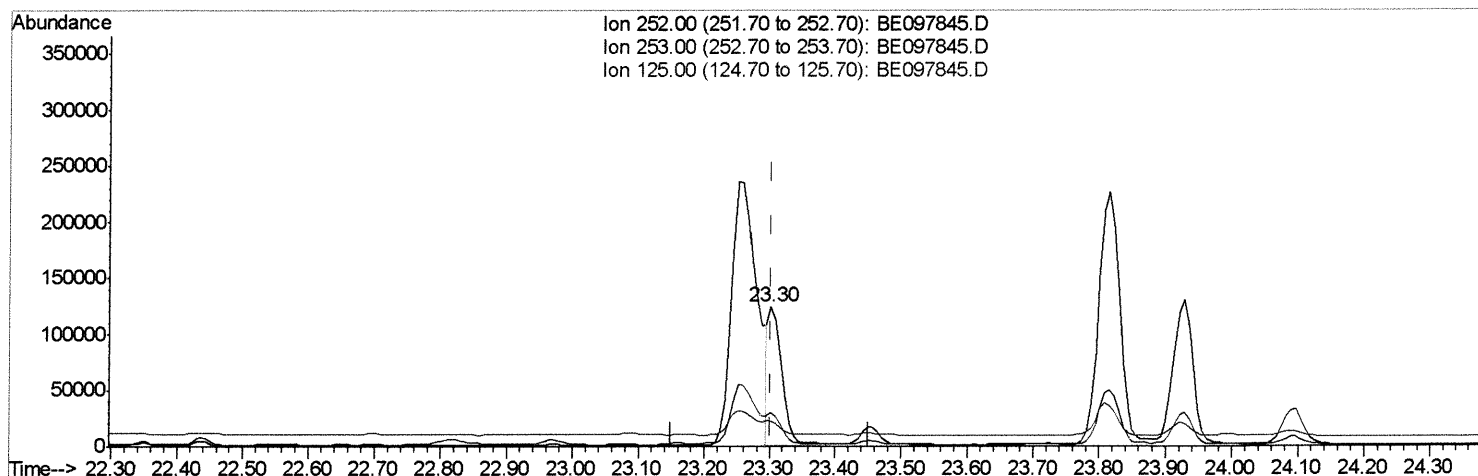
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
 Data File : BE097845.D
 Acq On : 11 Oct 2018 1:49
 Operator : SJ/JU
 Sample : J5183-08
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 JLC47

Manual Integrations
 APPROVED

Sohil
 10/11/2018 5:33:59 PM

Quant Time: Oct 11 02:56:36 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE101018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 11 01:20:33 2018
 Response via : Initial Calibration



TIC: BE097845.D

(22) Benzo(k)fluoranthene

23.301min (+0.000) 1.62ng/ul m) SJ 10/16/18

response 165716

Ion	Exp%	Act%
252.00	100	100
253.00	22.20	24.01
125.00	11.70	18.11#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE101018\
 Data File : BE097845.D
 Acq On : 11 Oct 2018 1:49
 Operator : SJ/JU
 Sample : J5183-08
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 JLC47

Manual Integrations
 APPROVED

Sohil
 10/11/2018 5:33:59 PM

Quant Time: Oct 11 02:57:18 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE101018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 11 01:20:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.89	152	3484	0.40	ng/ul	0.00
2) Naphthalene-d8	10.69	136	18049	0.40	ng/ul	0.00
6) Acenaphthene-d10	14.54	164	14059	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.30	188	37113m	0.40	ng/ul	0.00
16) Chrysene-d12	21.48	240	38201m	0.40	ng/ul	0.00
20) Perylene-d12	24.04	264	34863m	0.40	ng/ul	0.01

SJ 10/16/18

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Methylnaphthalene-d10	12.29	152	9056	0.32	ng/ul	0.00
14) Fluoranthene-d10	19.33	212	35145m	0.29	ng/ul	0.00

SJ 10/16/18

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Naphthalene	10.74	128	5823	0.134	ng/ul	96
5) 2-Methylnaphthalene	12.36	142	4539	0.157	ng/ul	100
7) Acenaphthylene	14.27	152	2620	0.053	ng/ul#	72
8) Acenaphthene	14.61	153	11400	0.276	ng/ul	98
9) Fluorene	15.60	166	14388	0.289	ng/ul	98
12) Phenanthrene	17.34	178	293201m	3.306	ng/ul	
13) Anthracene	17.44	178	58026m	0.771	ng/ul	
15) Fluoranthene	19.36	202	491094m	4.201	ng/ul	
17) Pyrene	19.72	202	475092m	5.062	ng/ul	
18) Benzo(a)anthracene	21.47	228	264485m	2.494	ng/ul	
19) Chrysene	21.52	228	565463	5.528	ng/ul	97
21) Benzo(b)fluoranthene	23.25	252	636260m	7.062	ng/ul	
22) Benzo(k)fluoranthene	23.30	252	165716m	1.623	ng/ul	
23) Benzo(a)pyrene	23.93	252	264312	3.206	ng/ul#	95
24) Indeno(1,2,3-cd)pyrene	26.73	276	317272	3.390	ng/ul#	100
25) Dibenzo(a,h)anthracene	26.74	278	77454	0.990	ng/ul#	88
26) Benzo(a,h,i)perylene	27.55	276	367742	4.163	ng/ul	98

SJ 10/16/18

(#) = qualifier out of range (m) = manual integration (+) = signals summed