

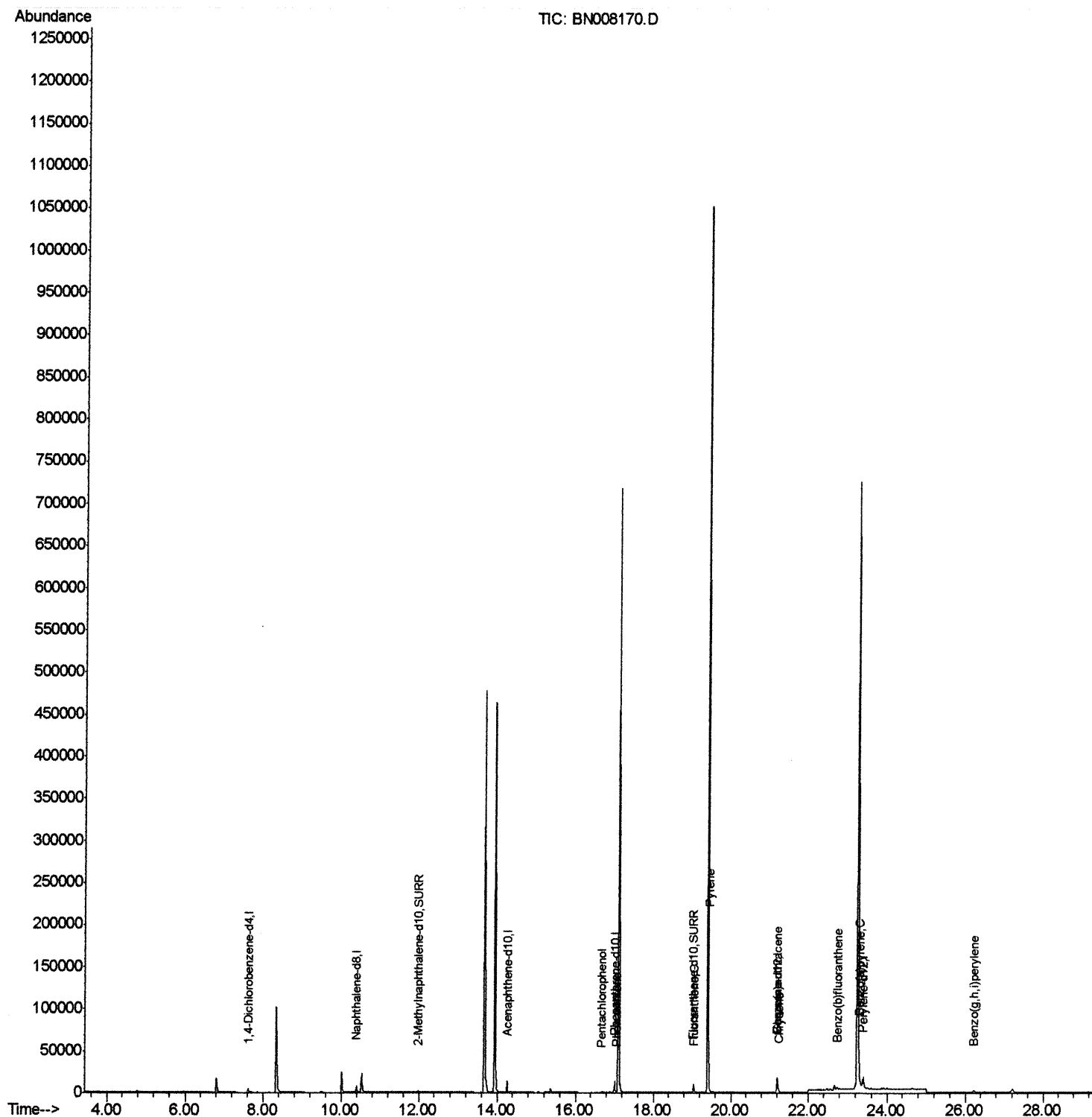
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

Quant Time: Oct 15 15:49:18 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 15 15:13:35 2019
Response via : Initial Calibration



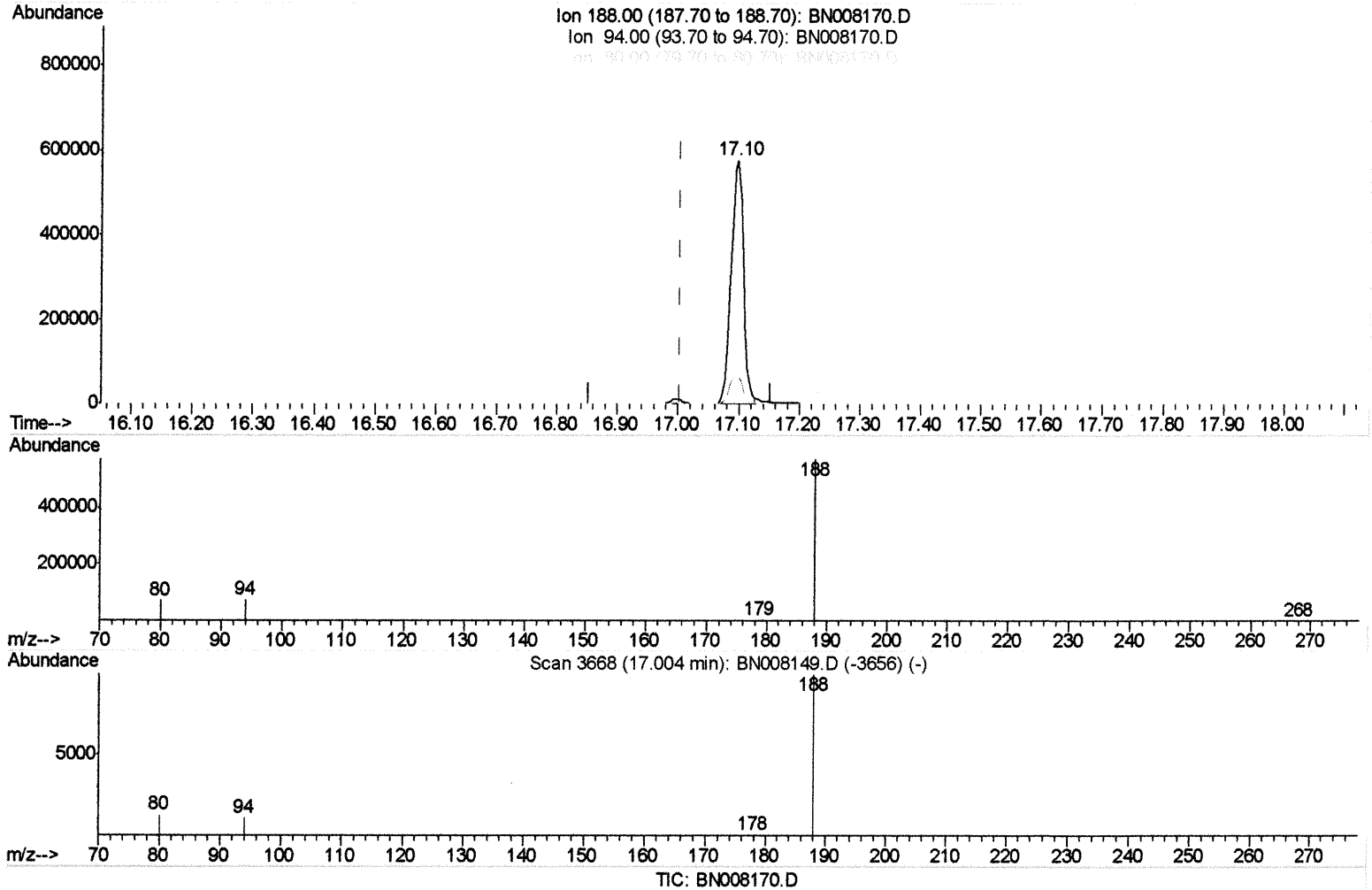
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

Quant Time: Oct 15 15:45:28 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 15 15:13:35 2019
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.097min (+0.093) 0.40ng/ul

response 812930

Ion	Exp%	Act%
188.00	100	100
94.00	10.90	12.44
80.00	12.60	12.23
0.00	0.00	0.00

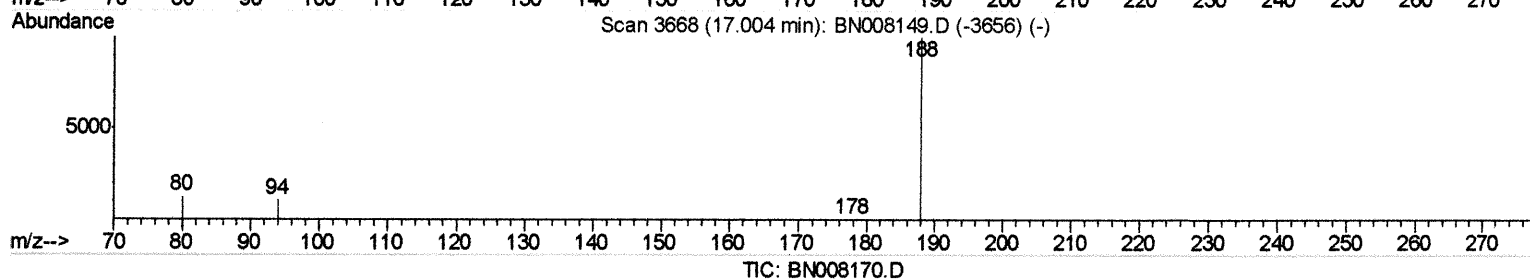
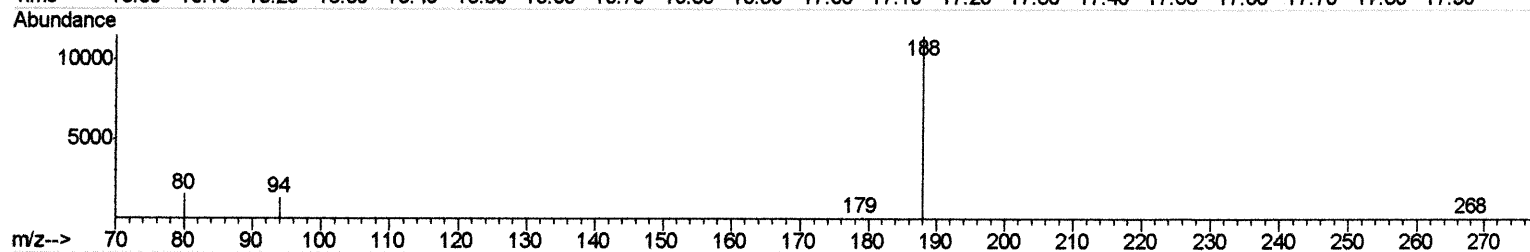
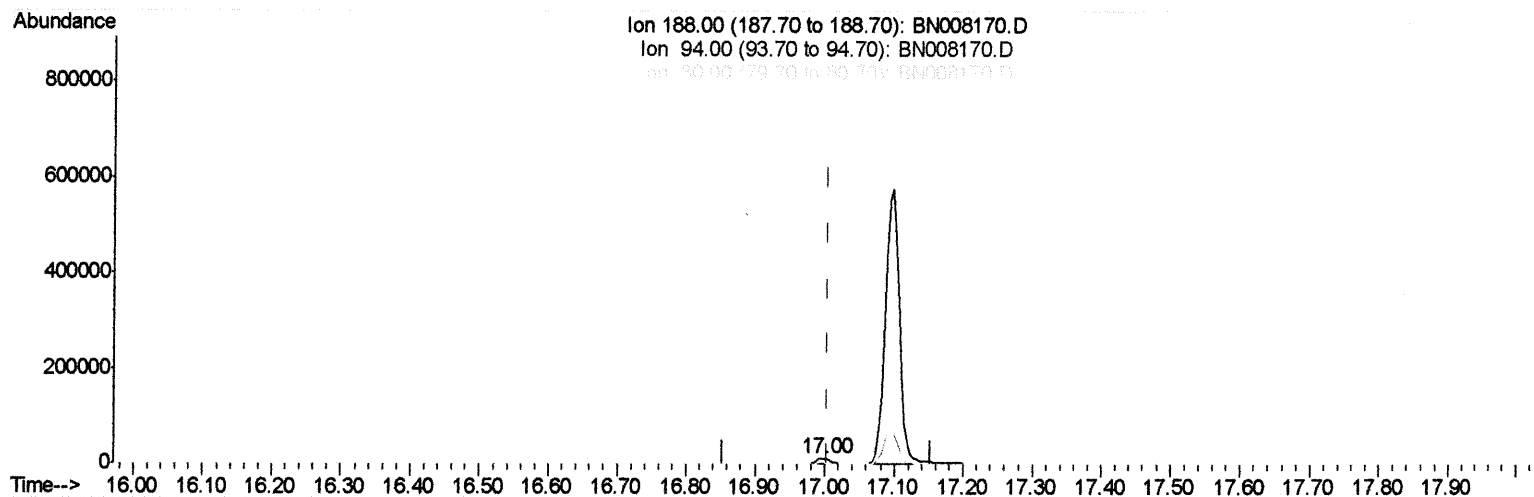
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

Quant Time: Oct 15 15:45:28 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 15 15:13:35 2019
Response via : Initial Calibration



TIC: BN008170.D

(10) Phenanthrene-d10 (I)

17.000min (-0.004) 0.40ng/ul m *PL* 10/16/19

response 16736

Ion	Exp%	Act%
188.00	100	100
94.00	10.90	11.29
80.00	12.60	13.16
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

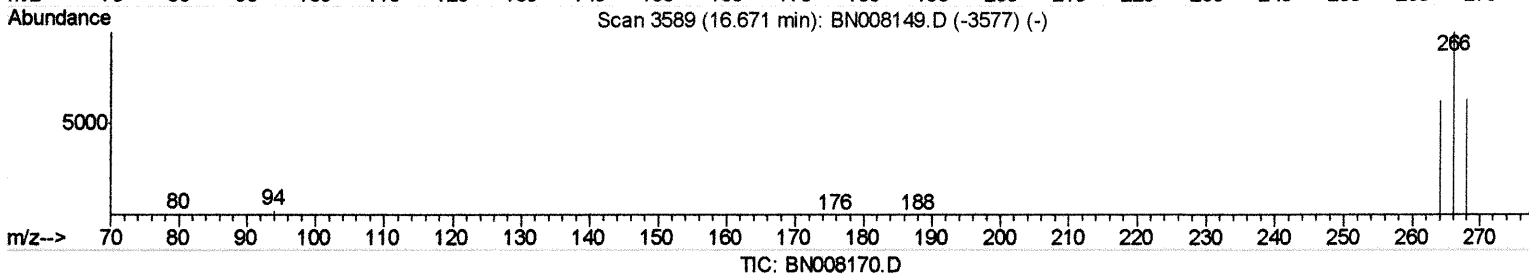
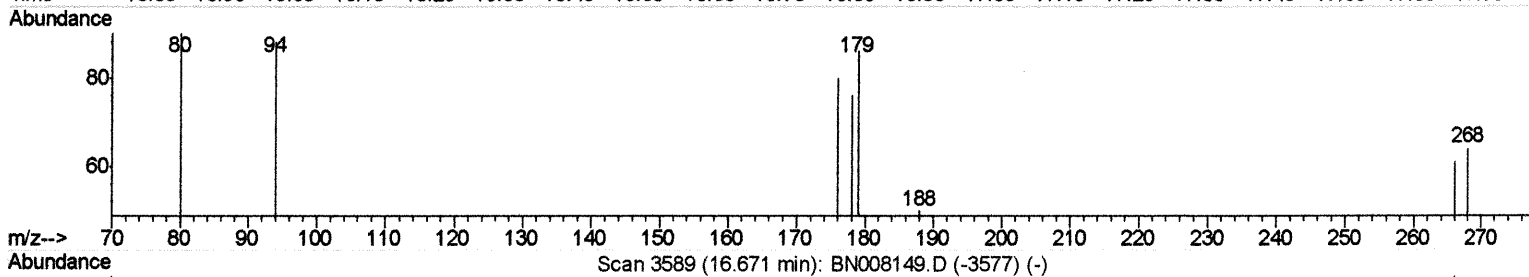
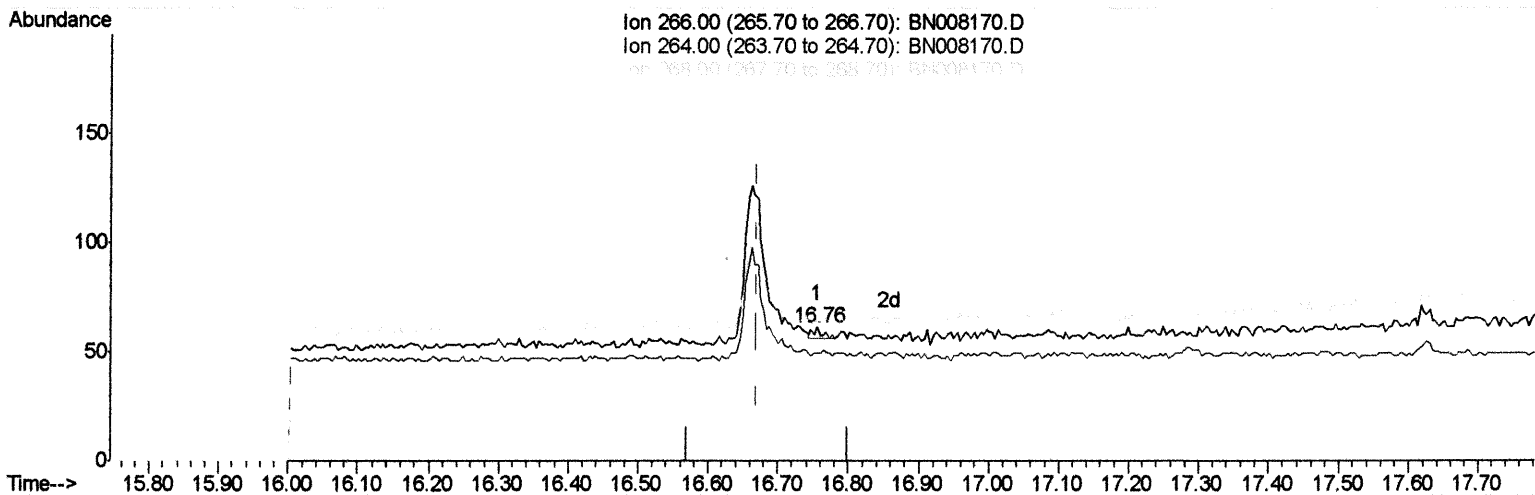
Quant Time: Oct 15 15:45:53 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 15 15:13:35 2019

Response via : Initial Calibration



(11) Pentachlorophenol

16.755min (+0.084) 0.00ng/ul

response 5

Ion	Exp%	Act%
266.00	100	100
264.00	62.60	40.00#
268.00	64.90	80.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

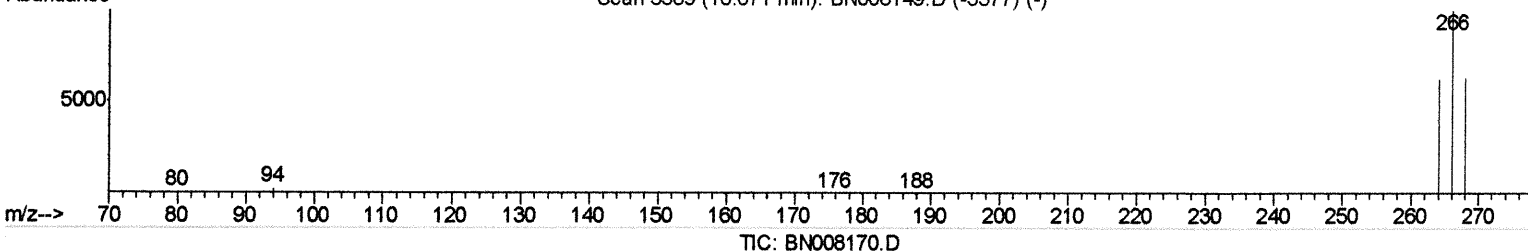
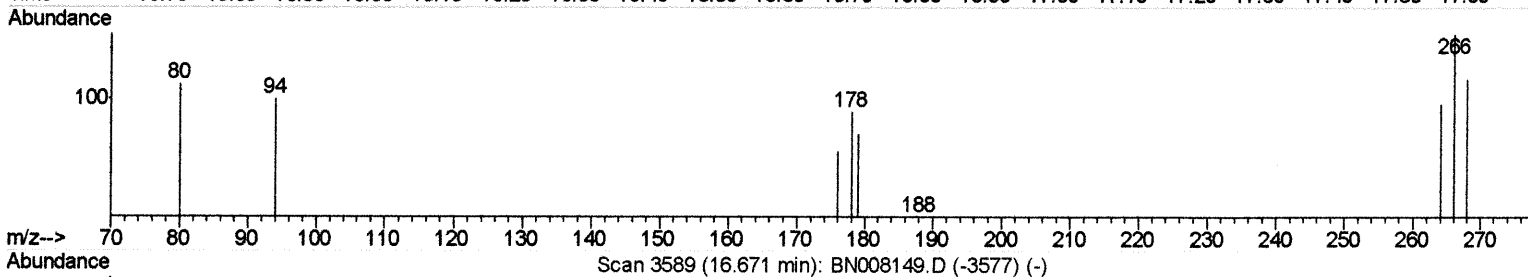
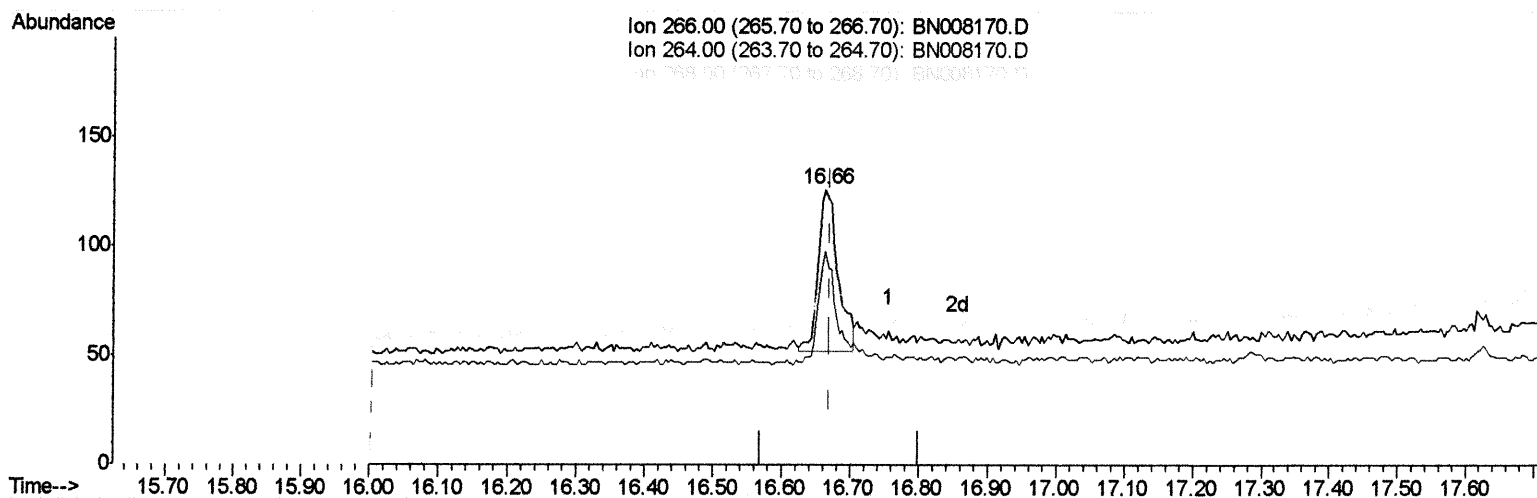
Quant Time: Oct 15 15:45:53 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 15 15:13:35 2019

Response via : Initial Calibration



(11) Pentachlorophenol

16.662min (-0.009) 0.04ng/ul m *Pu 10/16/19*

response 151

Ion	Exp%	Act%
266.00	100	100
264.00	62.60	1.32#
268.00	64.90	2.65#
0.00	0.00	0.00

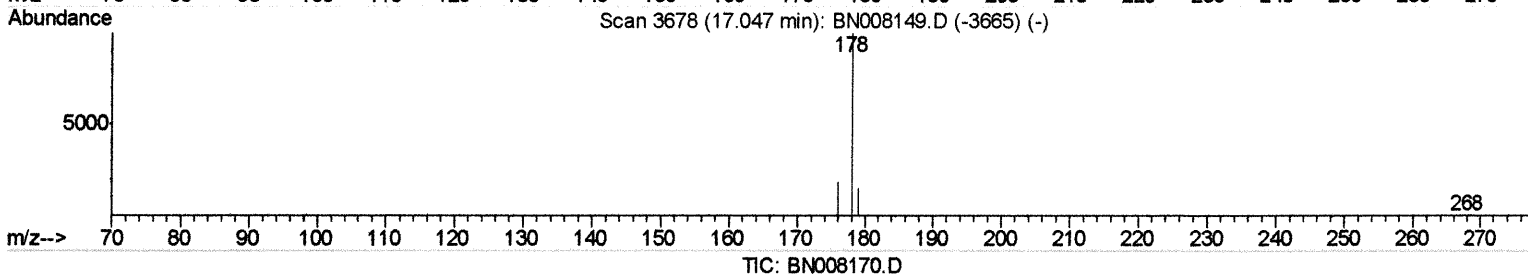
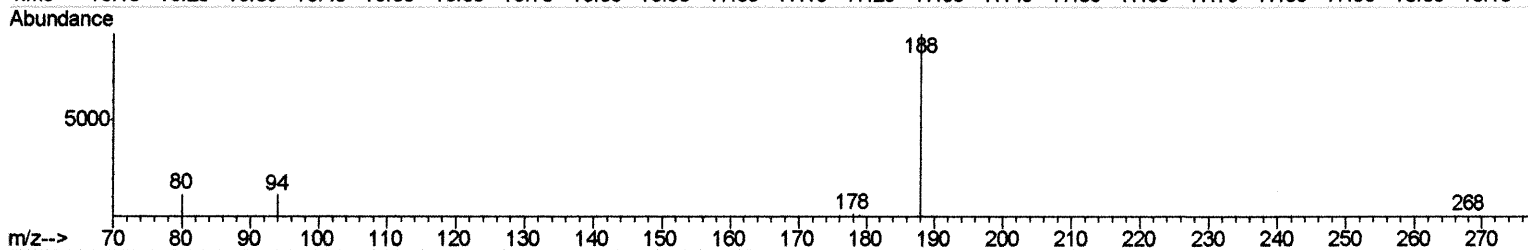
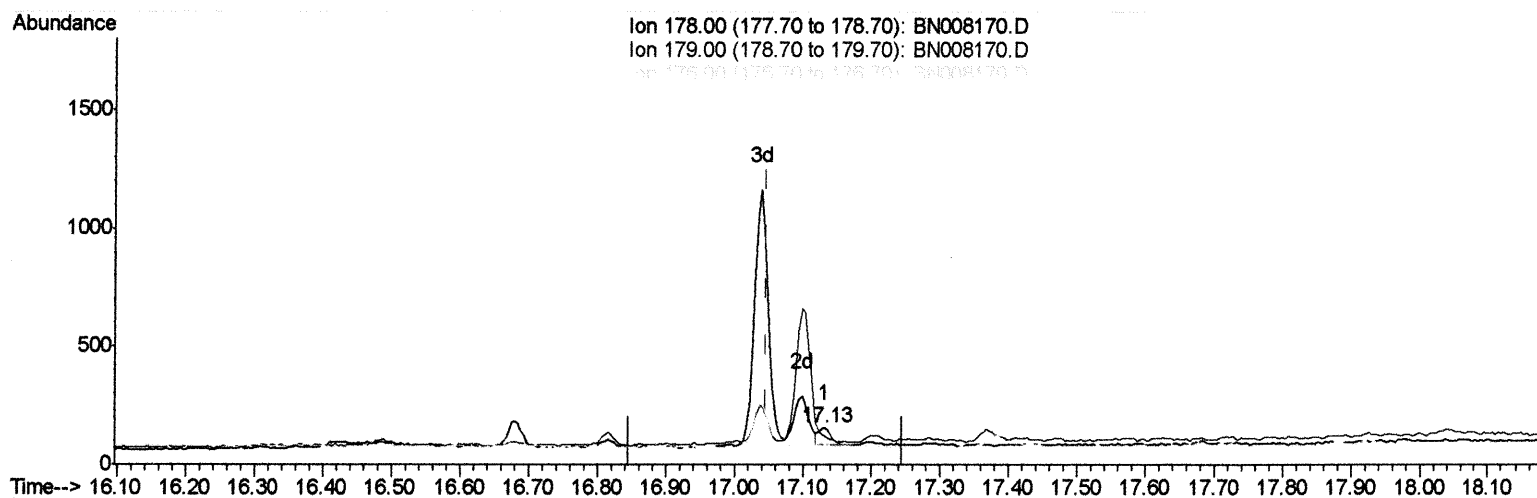
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

Quant Time: Oct 15 15:45:53 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 15 15:13:35 2019
Response via : Initial Calibration



(12) Phenanthrene

17.131min (+0.084) 0.00ng/ul

response 88

Ion	Exp%	Act%
178.00	100	100
179.00	16.00	76.28#
176.00	19.30	54.49#
0.00	0.00	0.00

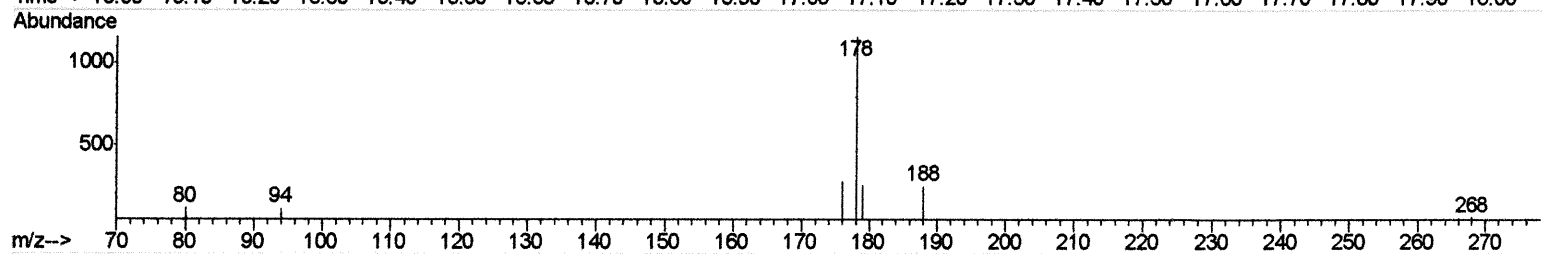
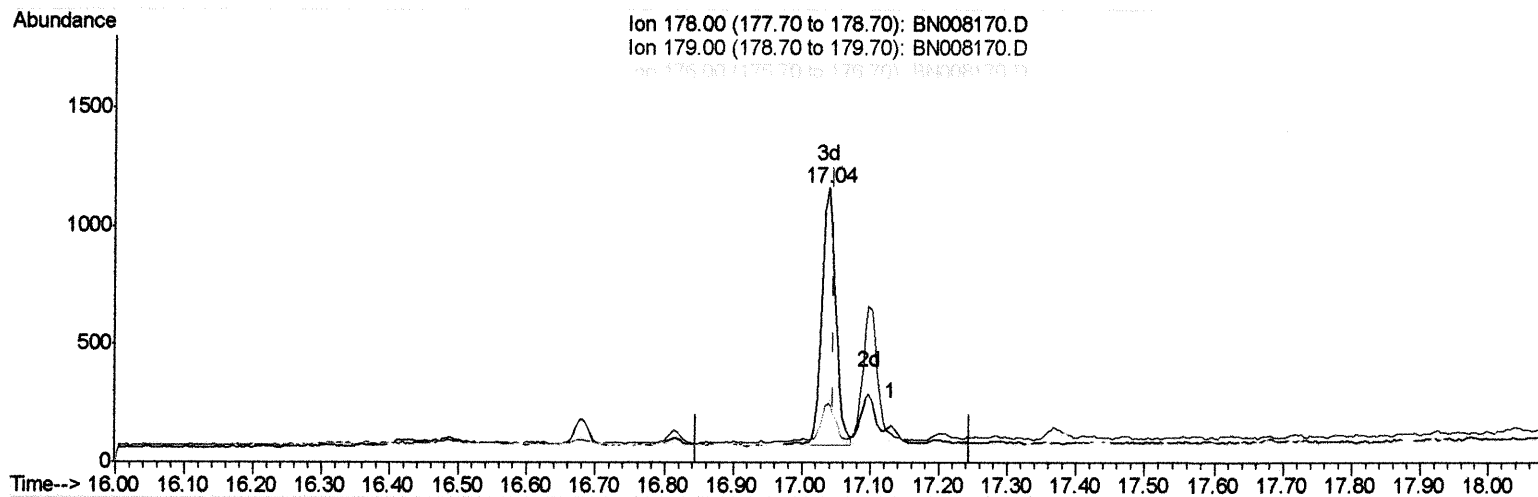
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

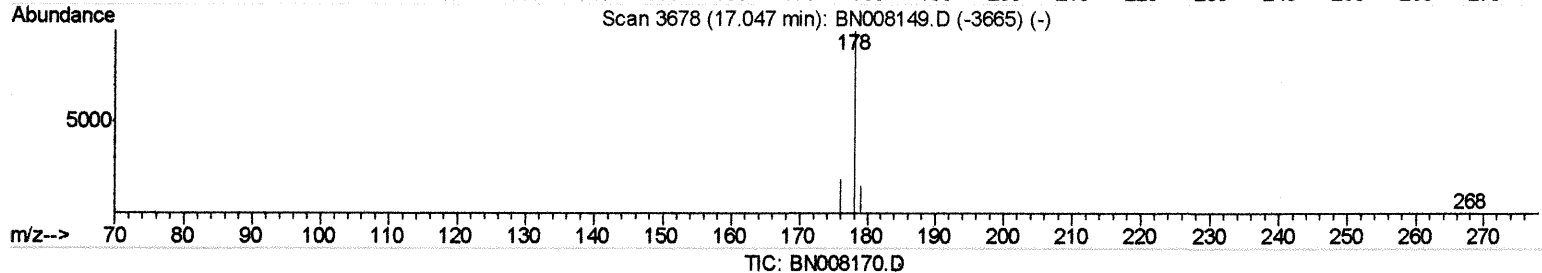
Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

Quant Time: Oct 15 15:45:53 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 15 15:13:35 2019
Response via : Initial Calibration



Scan 3678 (17.047 min): BN008149.D (-3665) (-)



(12) Phenanthrene

17.038min (-0.009) 0.03ng/ul m *JU* 10/16/19

response 1537

Ion	Exp%	Act%
178.00	100	100
179.00	16.00	21.71#
176.00	19.30	24.03#
0.00	0.00	0.00

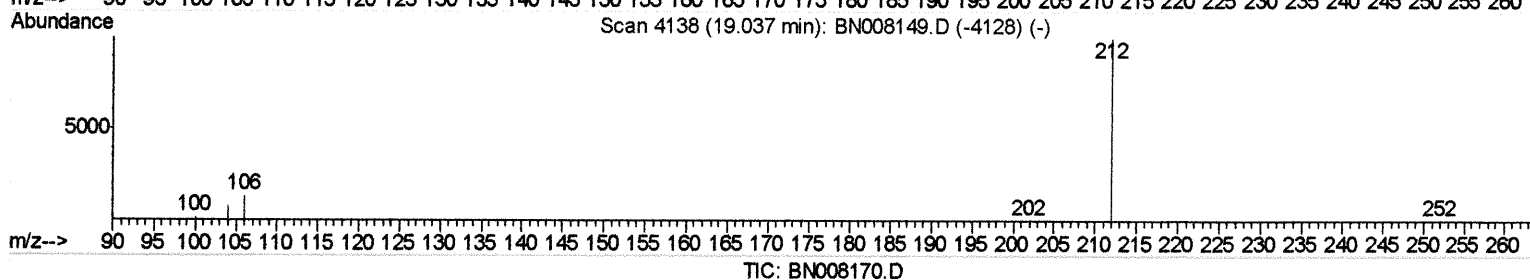
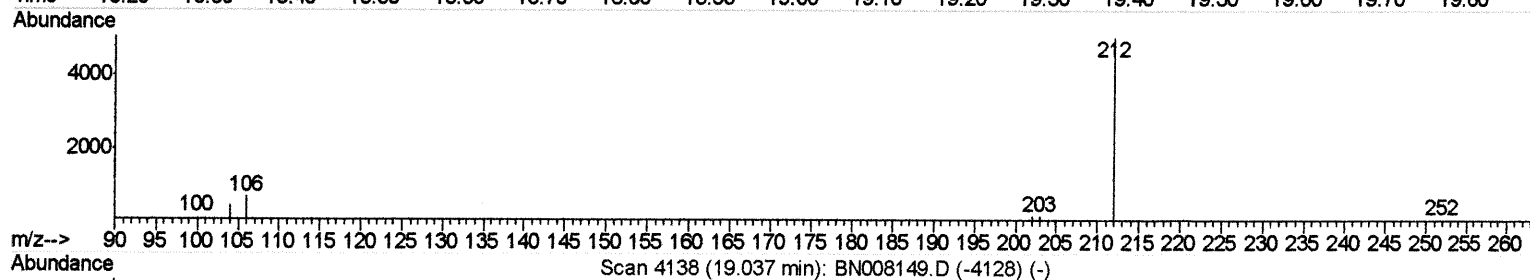
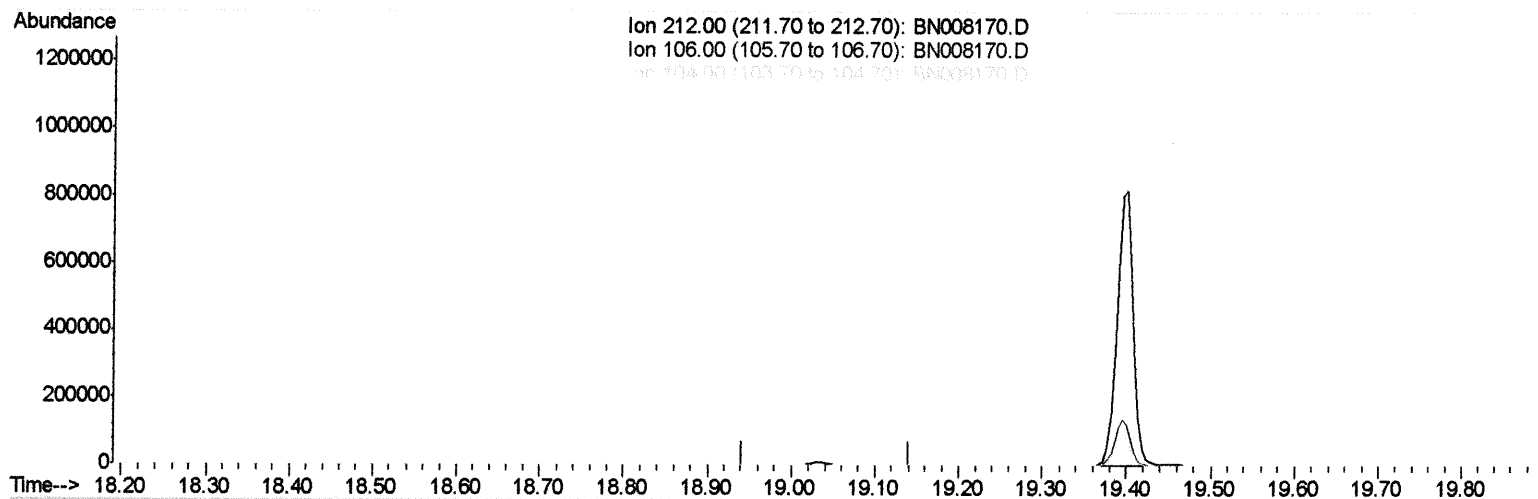
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

Quant Time: Oct 15 15:45:53 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 15 15:13:35 2019
Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.042min (-19.042) 0.00ng/ui

response 0

Ion	Exp%	Act%
212.00	100	0.00
106.00	12.70	0.00#
104.00	7.20	0.00#
0.00	0.00	0.00

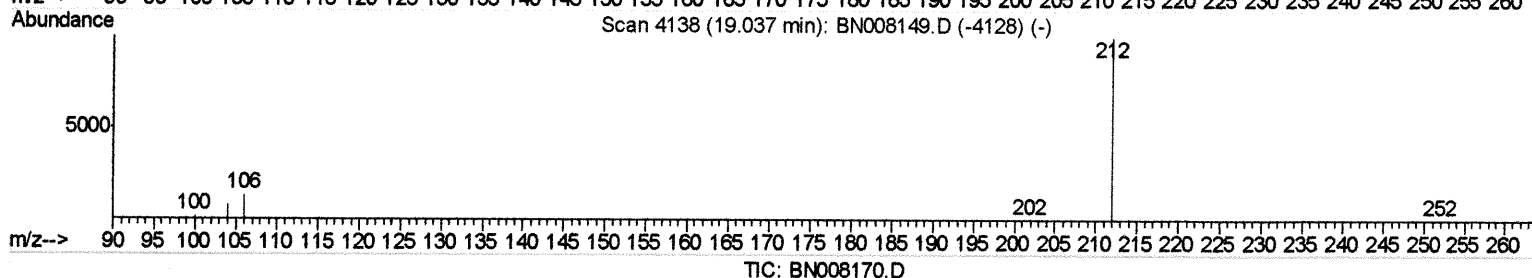
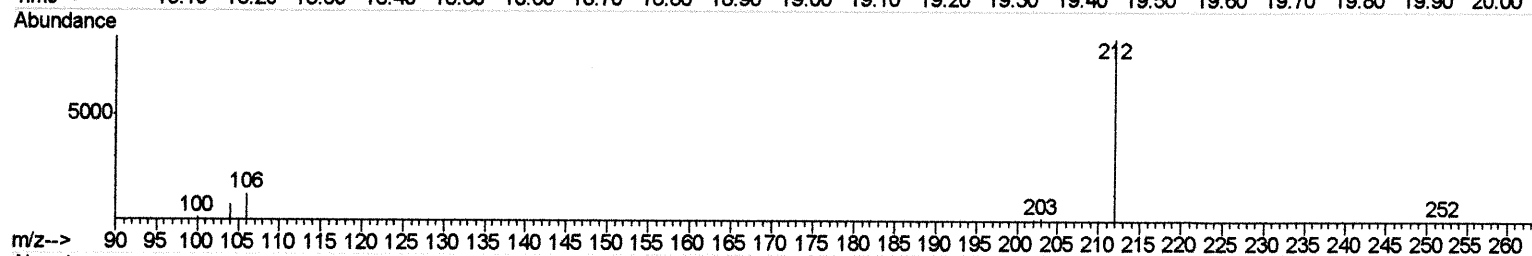
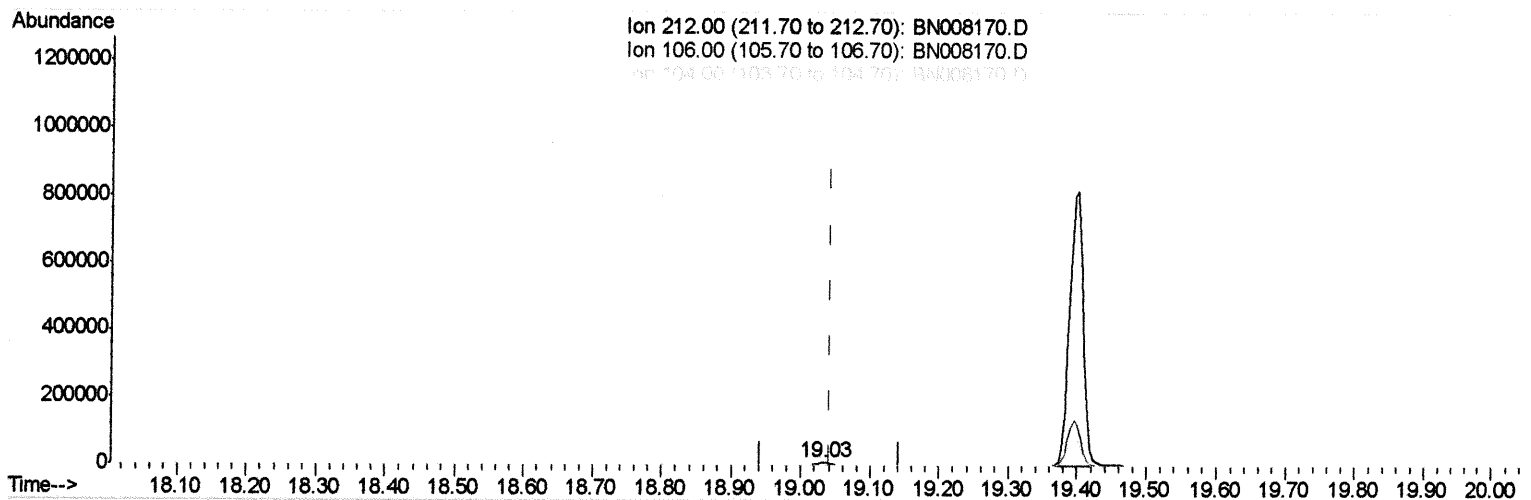
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

Quant Time: Oct 15 15:45:53 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 15 15:13:35 2019
Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.032min (-0.009) 0.21ng/ul m JU 10/16/19

response 12003

Ion	Exp%	Act%
212.00	100	100
106.00	12.70	0.00#
104.00	7.20	0.00#
0.00	0.00	0.00

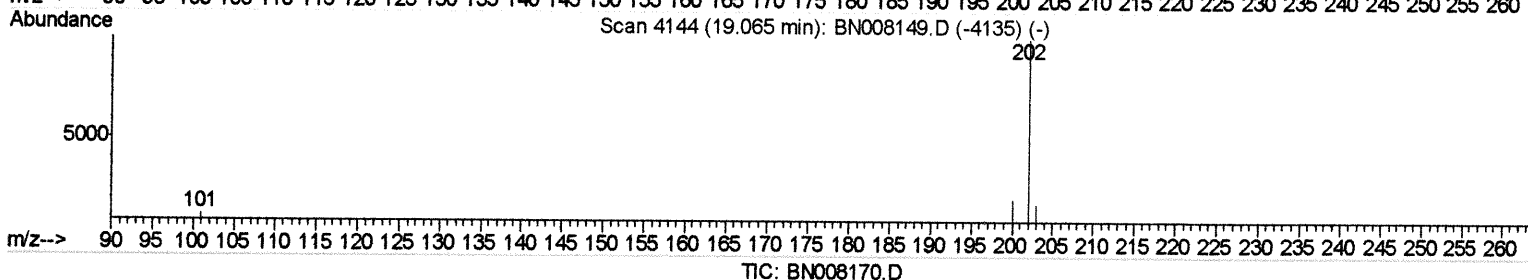
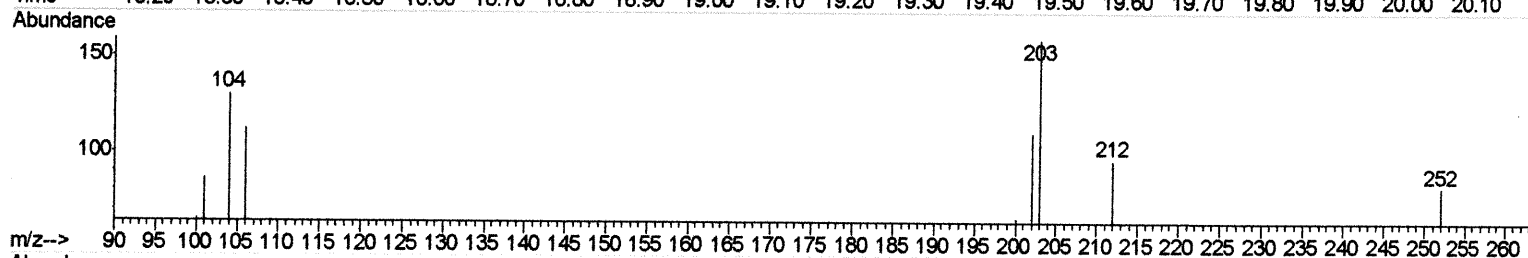
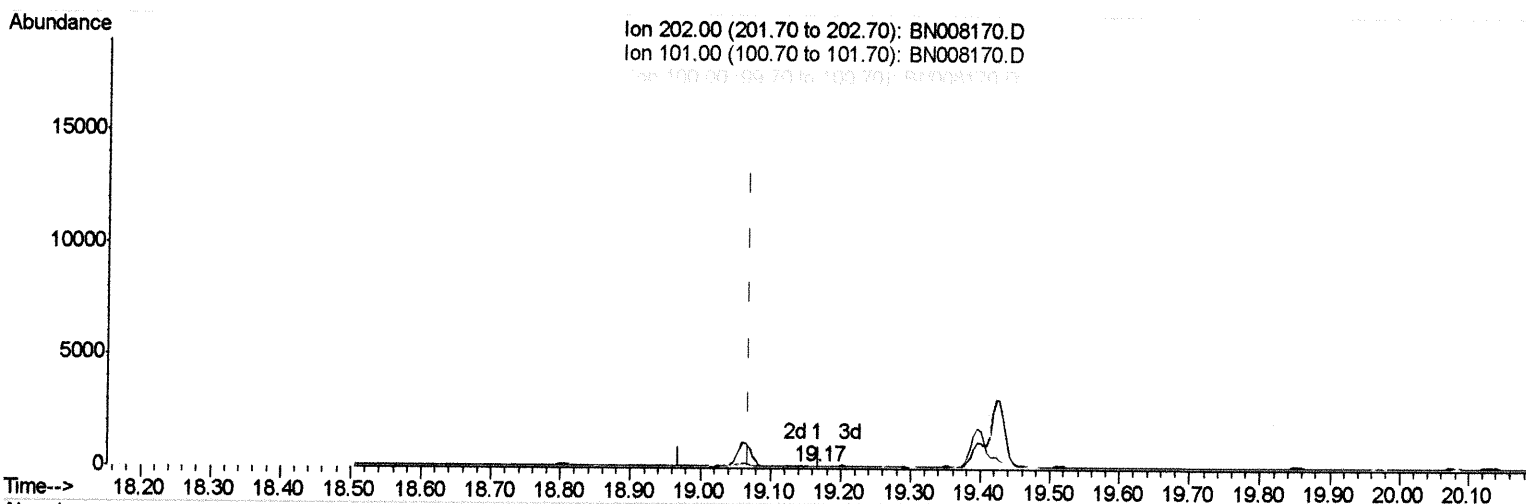
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

Quant Time: Oct 15 15:45:53 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 15 15:13:35 2019
Response via : Initial Calibration



(15) Fluoranthene (C)

19.167min (+0.097) 0.00ng/ui

response 26

Ion	Exp%	Act%
202.00	100	100
101.00	11.20	78.18#
100.00	8.50	59.09#
0.00	0.00	0.00

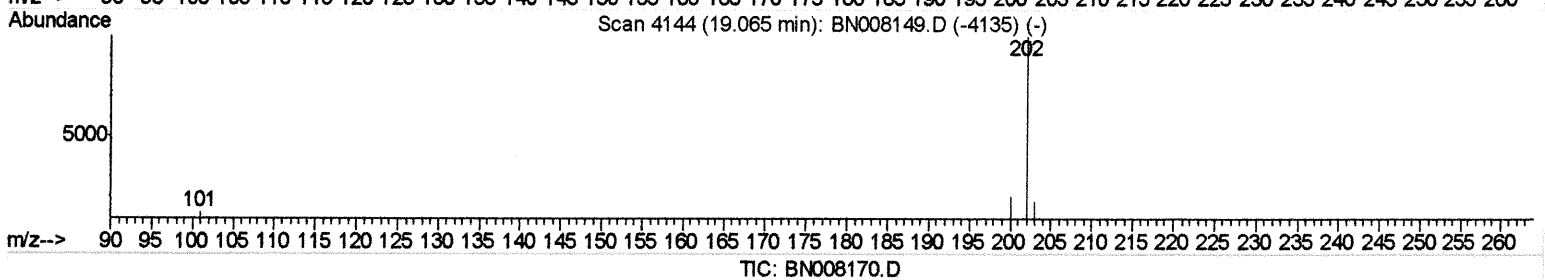
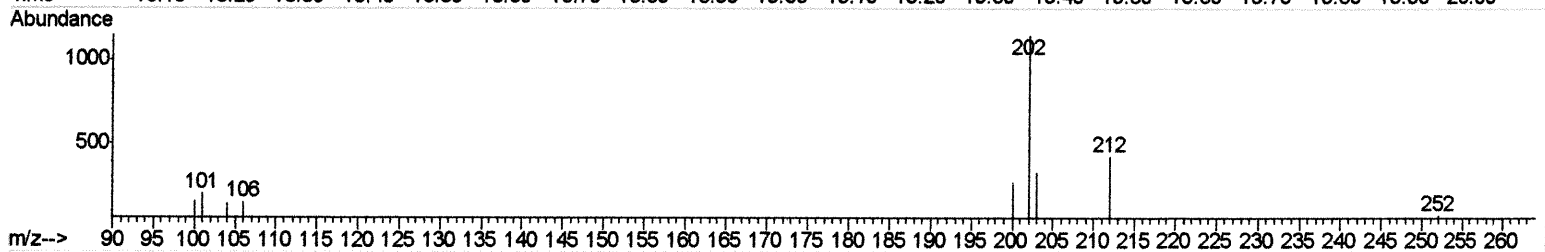
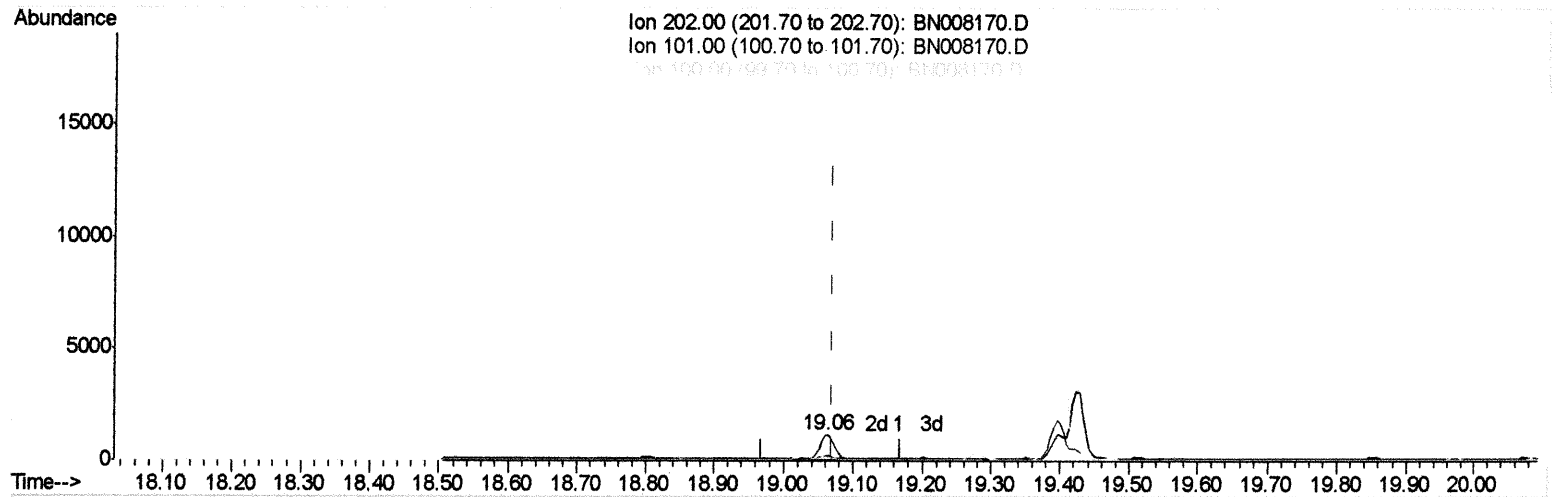
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

Quant Time: Oct 15 15:45:53 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 15 15:13:35 2019
Response via : Initial Calibration



(15) Fluoranthene (C)

19.060min (-0.009) 0.03ng/ul m JU 10/16/19

response 1664

Ion	Exp%	Act%
202.00	100	100
101.00	11.20	17.70
100.00	8.50	14.04
0.00	0.00	0.00

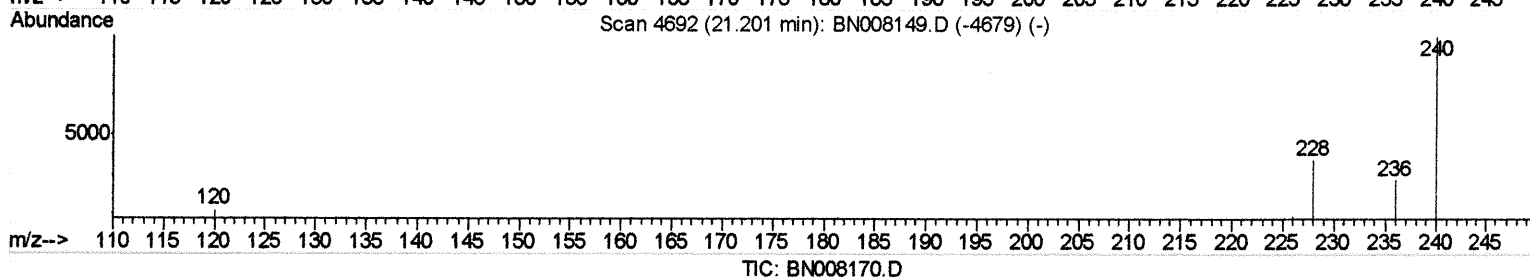
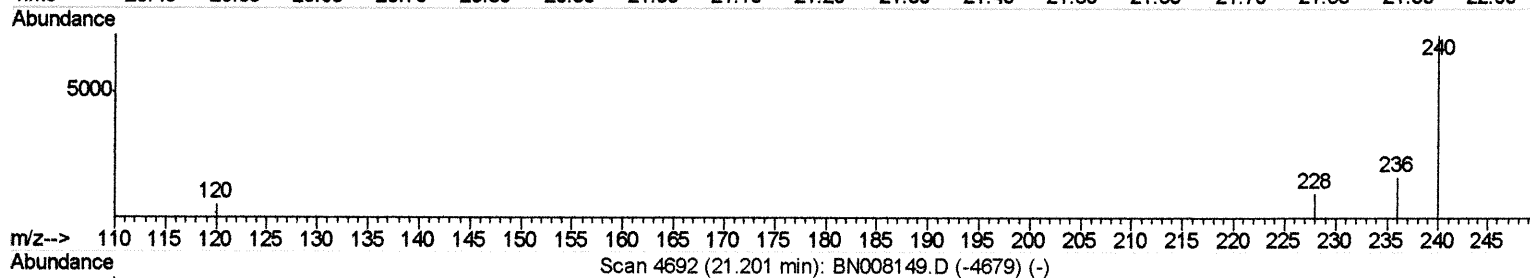
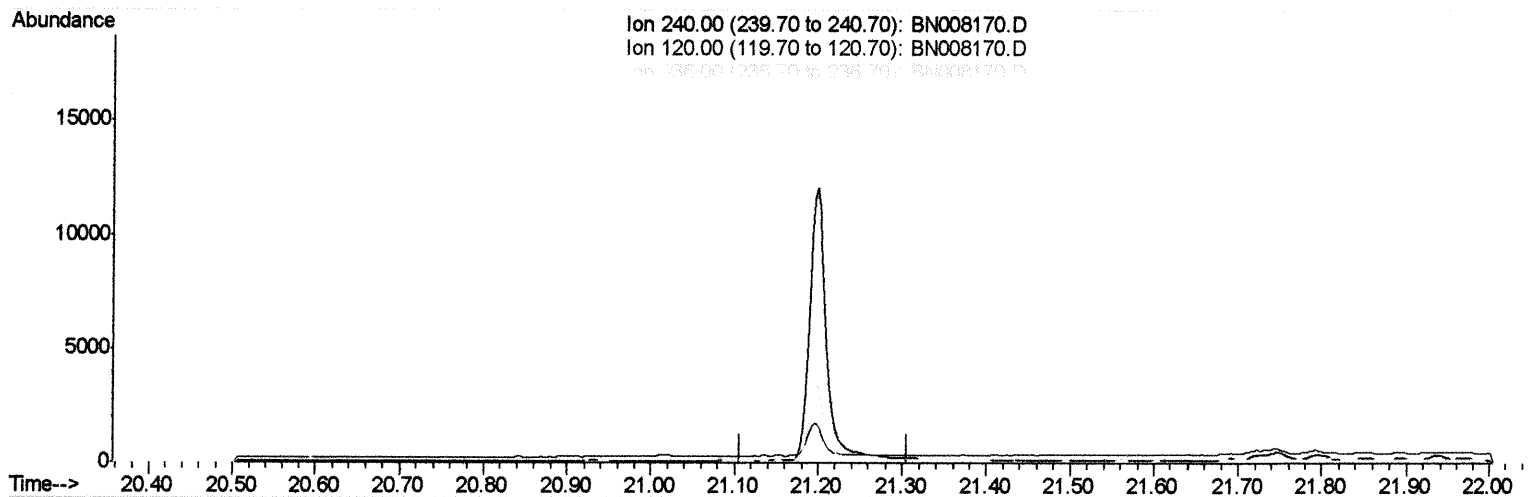
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

Quant Time: Oct 15 15:45:53 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 15 15:13:35 2019
Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.207min (-21.207) 0.00ng/ul

response 0

Ion	Exp%	Act%
240.00	100	0.00
120.00	14.70	0.00#
236.00	28.40	0.00#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampled :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

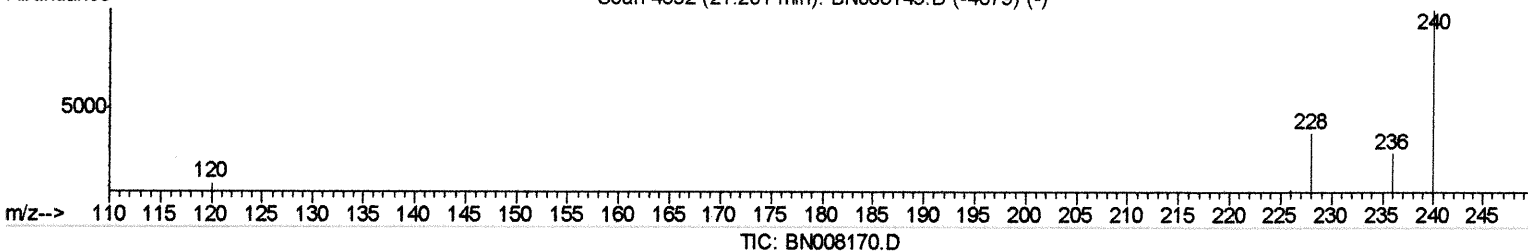
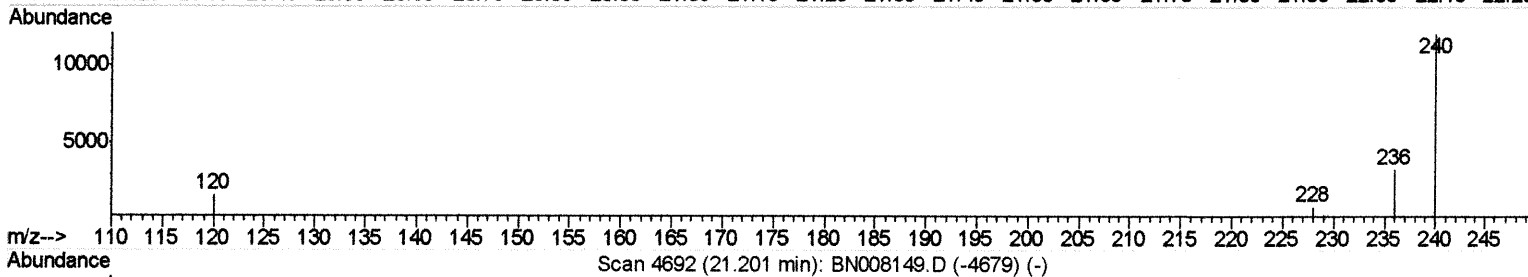
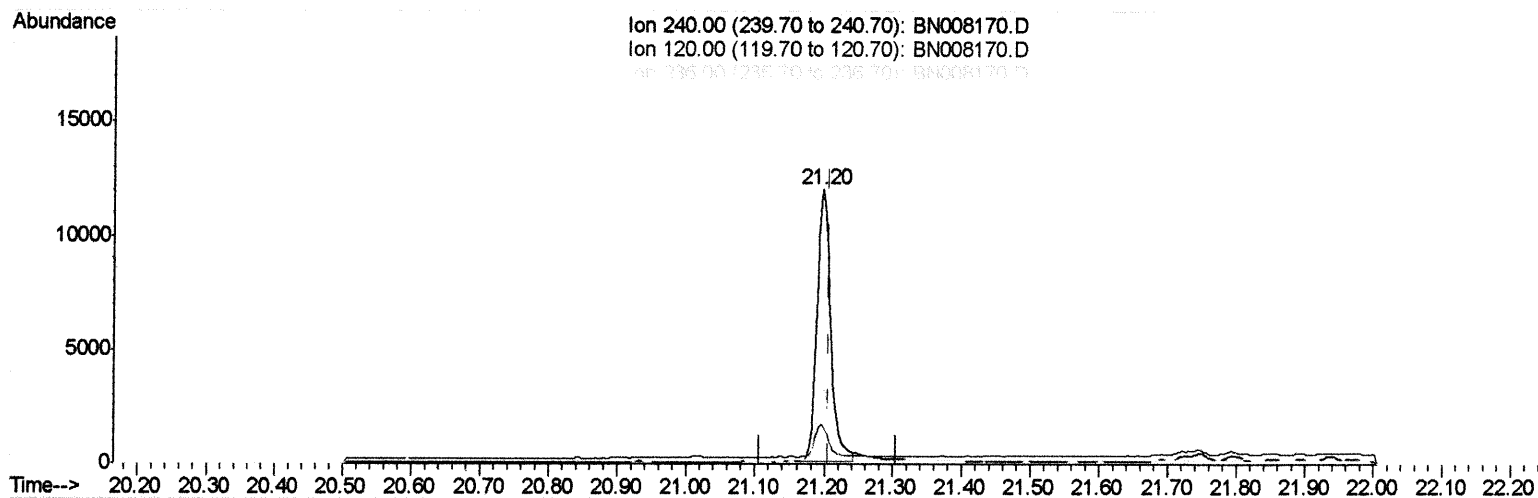
Quant Time: Oct 15 15:45:53 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 15 15:13:35 2019

Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.198min (-0.009) 0.40ng/ul m

JU 10/16/19

response 16874

Ion	Exp%	Act%
240.00	100	100
120.00	14.70	14.05
236.00	28.40	28.01
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

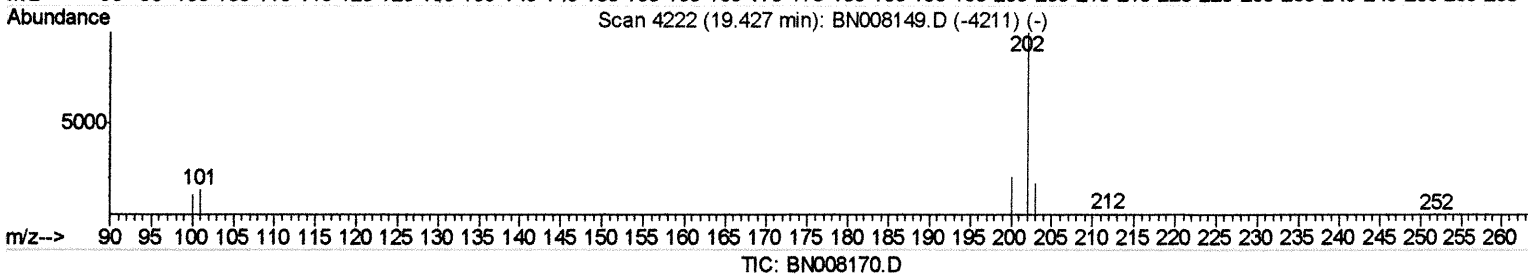
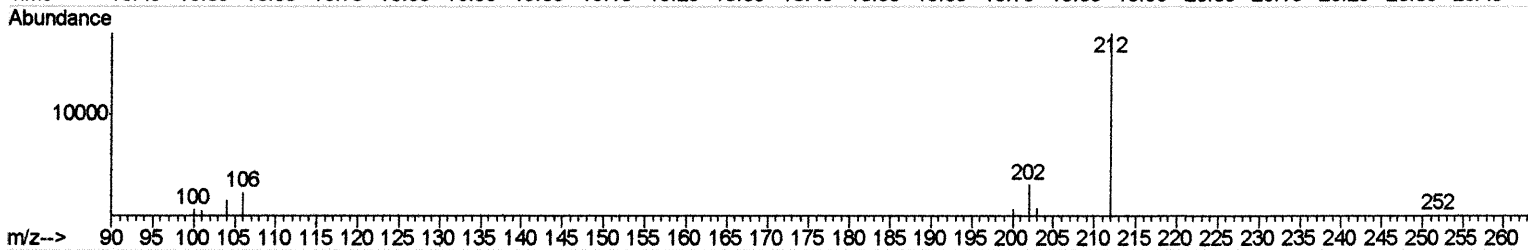
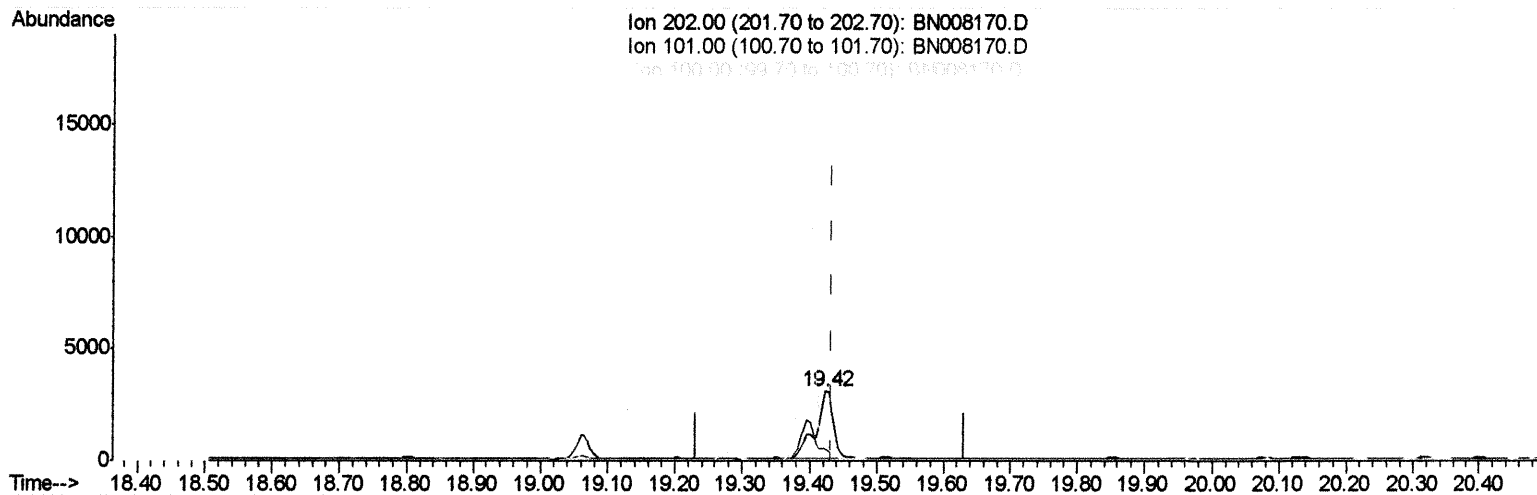
Quant Time: Oct 15 15:48:12 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 15 15:13:35 2019

Response via : Initial Calibration



(17) Pyrene

19.423min (-0.009) 0.08ng/ul

response 5550

Ion	Exp%	Act%
202.00	100	100
101.00	13.60	17.66#
100.00	10.90	20.14#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

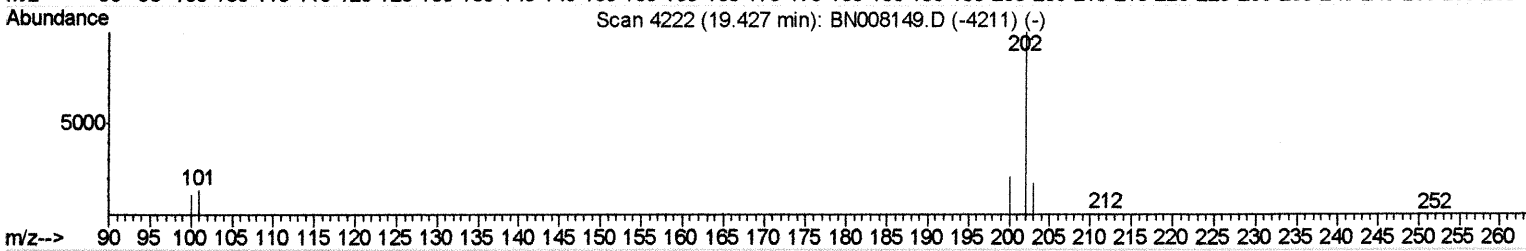
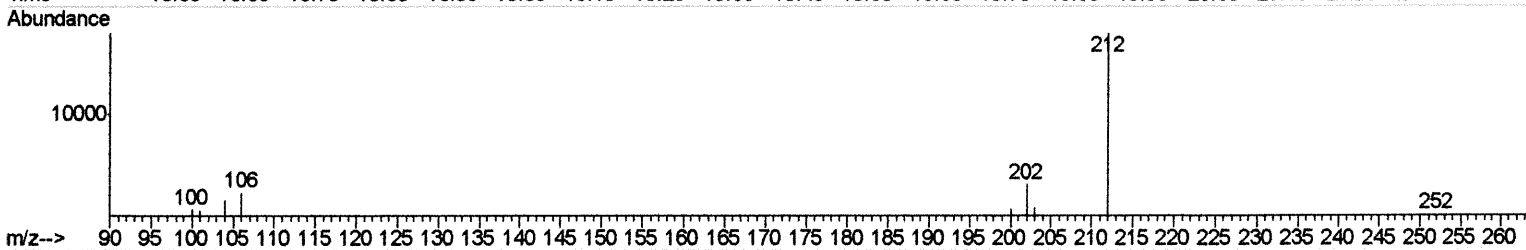
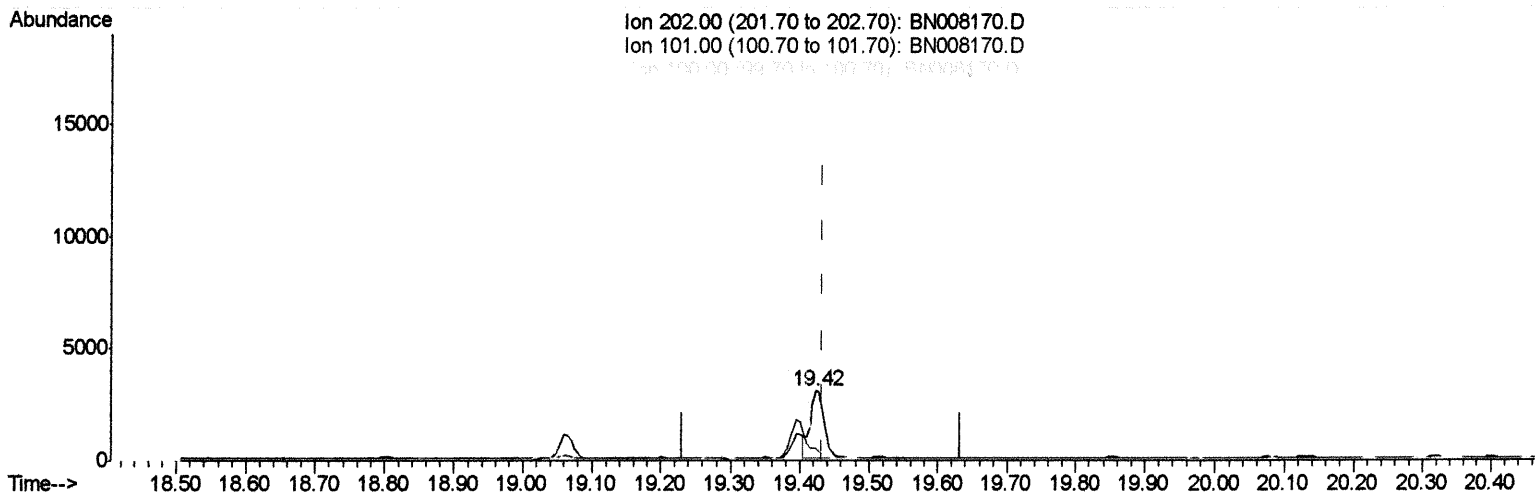
Quant Time: Oct 15 15:48:12 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 15 15:13:35 2019

Response via : Initial Calibration



TIC: BN008170.D

(17) Pyrene

19.423min (-0.009) 0.06ng/ul m *JU 10/16/19*

response 4213

Ion	Exp%	Act%
202.00	100	100
101.00	13.60	17.66#
100.00	10.90	20.14#
0.00	0.00	0.00

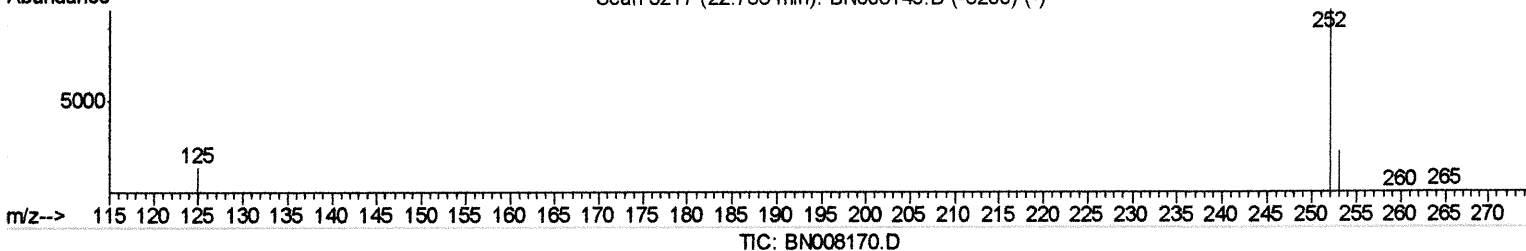
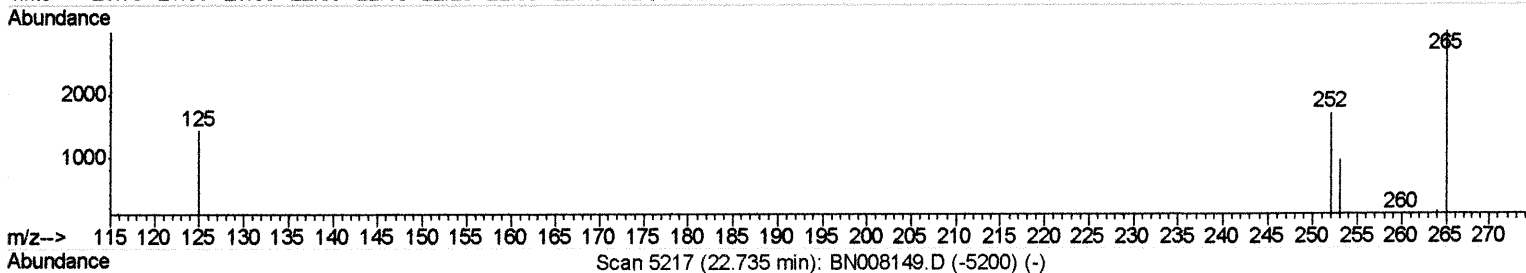
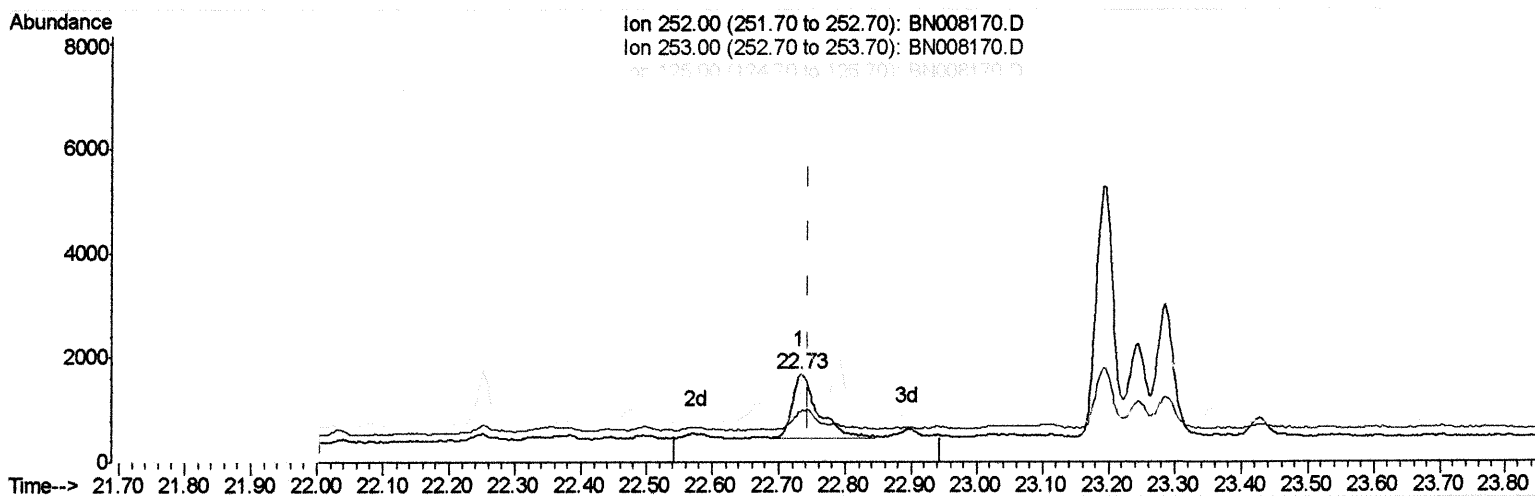
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

Quant Time: Oct 15 15:48:12 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 15 15:13:35 2019
Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.732min (-0.012) 0.06ng/ul

response 3277

Ion	Exp%	Act%
252.00	100	100
253.00	26.70	56.76#
125.00	16.20	84.54#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
Data File : BN008170.D
Acq On : 15 Oct 2019 13:15
Operator : JU
Sample : K5097-20
Misc :
ALS Vial : 38 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
JLM82

Manual Integrations
APPROVED

mohammad
10/16/2019 4:07:47 PM

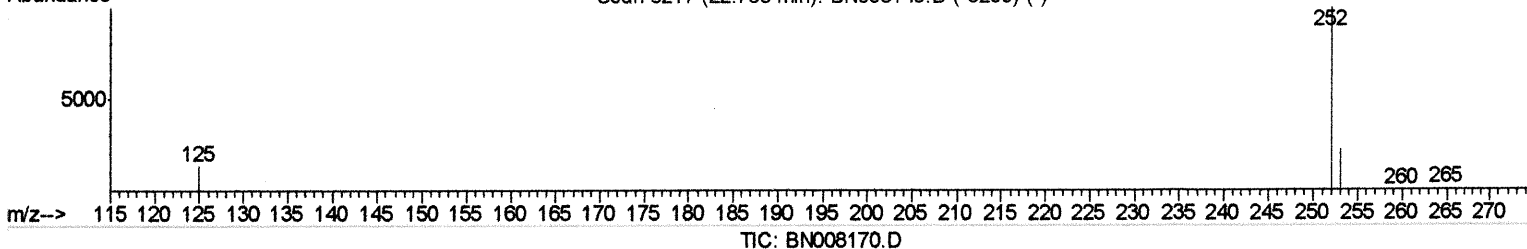
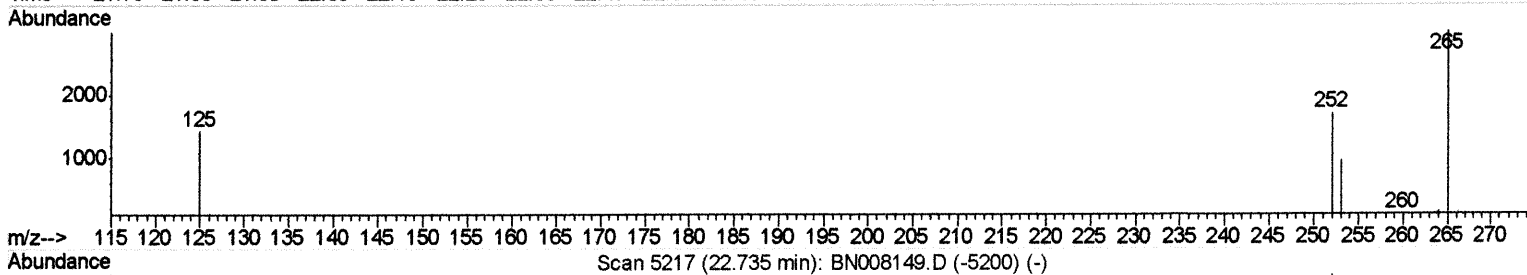
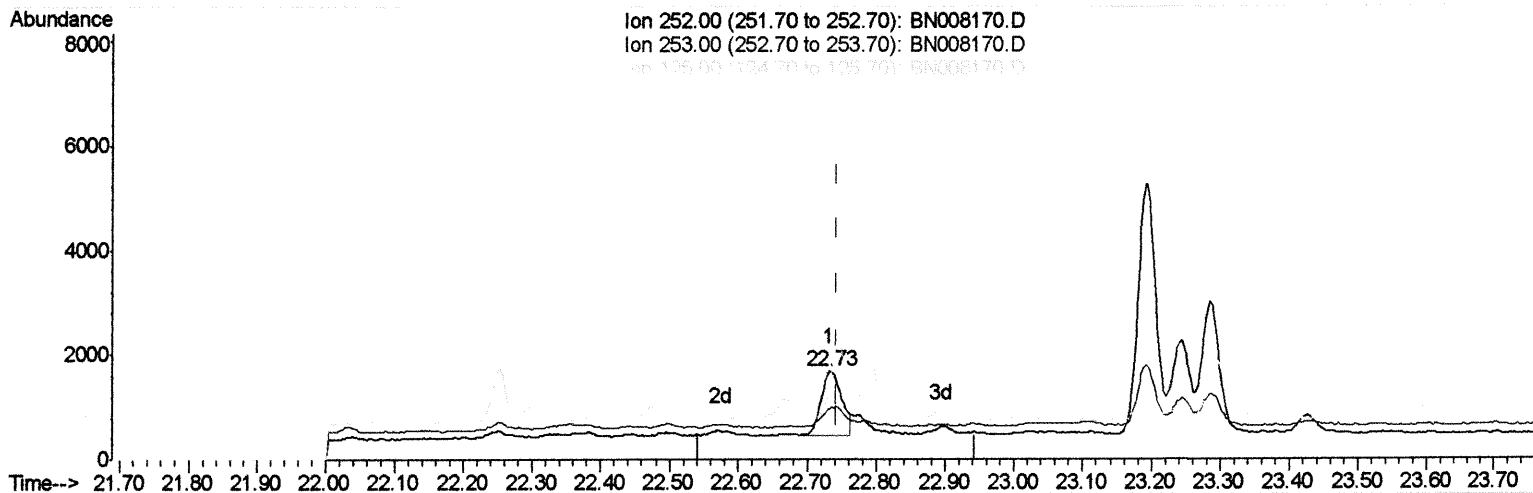
Quant Time: Oct 15 15:48:12 2019

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Tue Oct 15 15:13:35 2019

Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.732min (-0.012) 0.05ng/ul m

JU 10/16/19

response 2598

Ion	Exp%	Act%
252.00	100	100
253.00	26.70	56.76#
125.00	16.20	84.54#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN101419\
 Data File : BN008170.D
 Acq On : 15 Oct 2019 13:15
 Operator : JU
 Sample : K5097-20
 Misc :
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 JLM82

Manual Integrations
 APPROVED

mohammad
 10/16/2019 4:07:47 PM

Quant Time: Oct 15 15:49:18 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-SIM-BN101019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 15 15:13:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.62	152	2419	0.40	ng/ul	0.00
2) Naphthalene-d8	10.38	136	11661	0.40	ng/ul	0.00
6) Acenaphthene-d10	14.25	164	7401	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.00	188	16736m	0.40	ng/ul	0.00
16) Chrysene-d12	21.20	240	16874m	0.40	ng/ul	0.00
20) Perylene-d12	23.38	264	17108	0.40	ng/ul	-0.01

System Monitoring Compounds

4) 2-Methylnaphthalene-d10	11.98	152	3643	0.19	ng/ul	0.00
14) Fluoranthene-d10	19.03	212	12003m	0.21	ng/ul	0.00

Target Compounds

				Qvalue	
11) Pentachlorophenol	16.66	266	151m	0.037	ng/ul
12) Phenanthrene	17.04	178	1537m	0.031	ng/ul
15) Fluoranthene	19.06	202	1664m	0.026	ng/ul
17) Pyrene	19.42	202	4213m	0.063	ng/ul
18) Benzo(a)anthracene	21.18	228	2623	0.043	ng/ul#
19) Chrysene	21.23	228	6647	0.088	ng/ul#
21) Benzo(b)fluoranthene	22.73	252	2598m	0.047	ng/ul
23) Benzo(a)pyrene	23.28	252	4347	0.074	ng/ul#
26) Benzo(g,h,i)perylene	26.21	276	5220	0.082	ng/ul#

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