

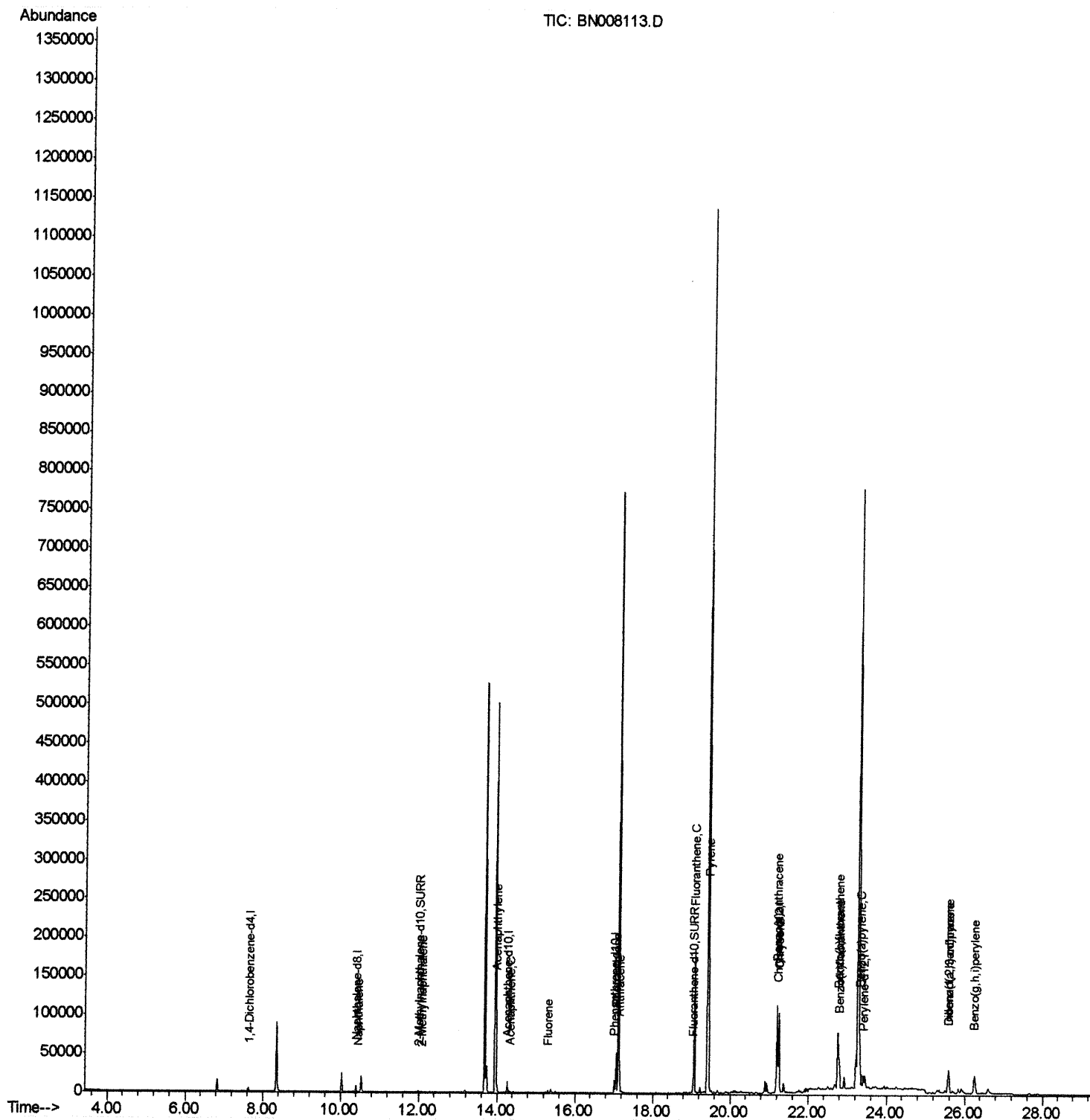
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008113.D
Acq On : 12 Oct 2019 15:21
Operator : JU
Sample : K5178-04
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE7

Manual Integrations
APPROVED

mohammad
10/15/2019 7:58:48 AM

Quant Time: Oct 13 03:39:05 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 : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



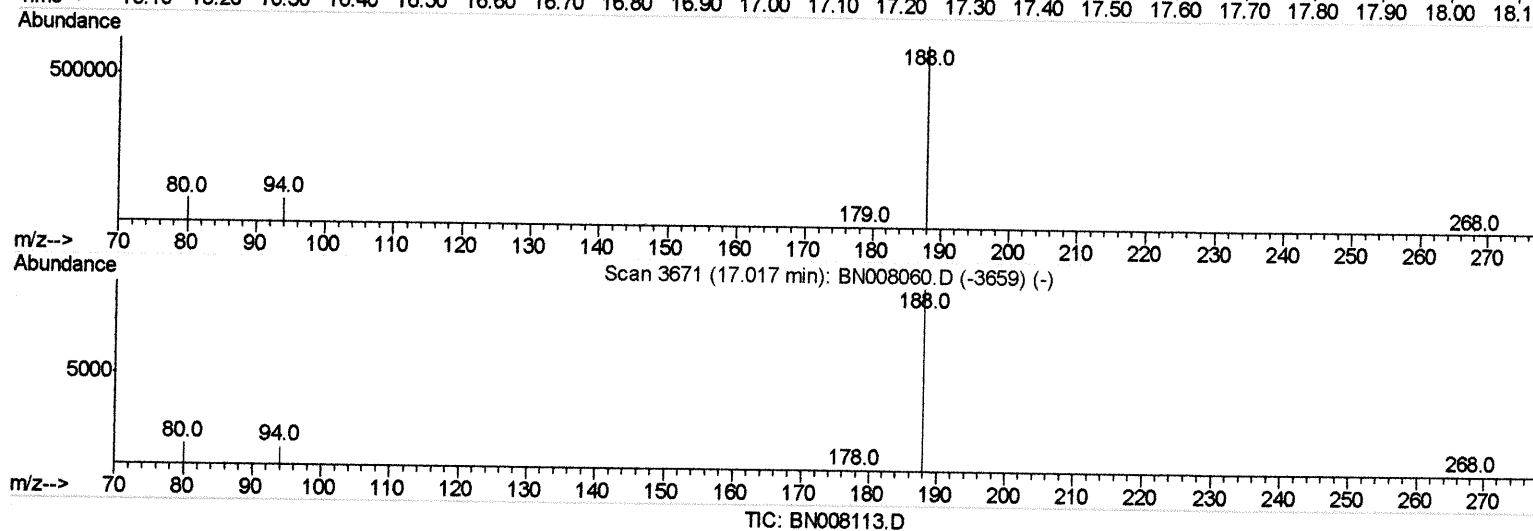
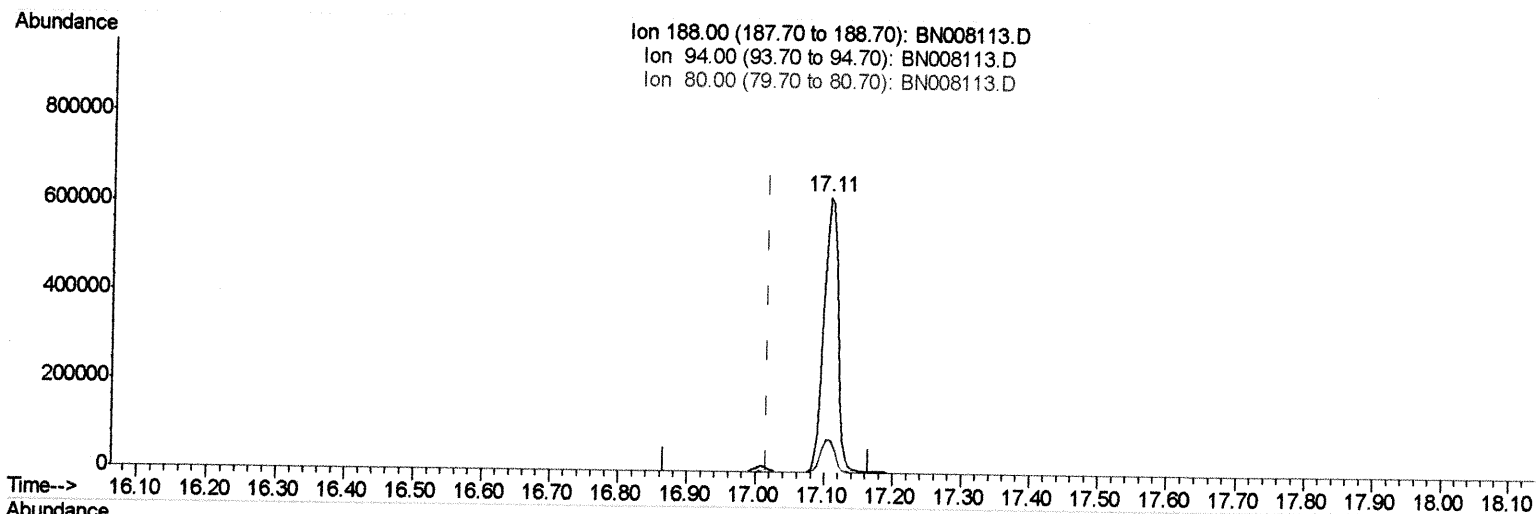
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008113.D
Acq On : 12 Oct 2019 15:21
Operator : JU
Sample : K5178-04
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE7

Manual Integrations
APPROVED

mohammad
10/15/2019 7:58:48 AM

Quant Time: Oct 12 21:40:50 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 : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.106min (+0.089) 0.40ng/ul

response 893138

Ion	Exp%	Act%
188.00	100	100
94.00	10.90	12.50
80.00	12.60	12.30
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\

Data File : BN008113.D

Acq On : 12 Oct 2019 15:21

Operator : JU

Sample : K5178-04

Misc :

ALS Vial : 46 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

BEPE7

Manual Integrations
APPROVEDmohammad
10/15/2019 7:58:48 AM

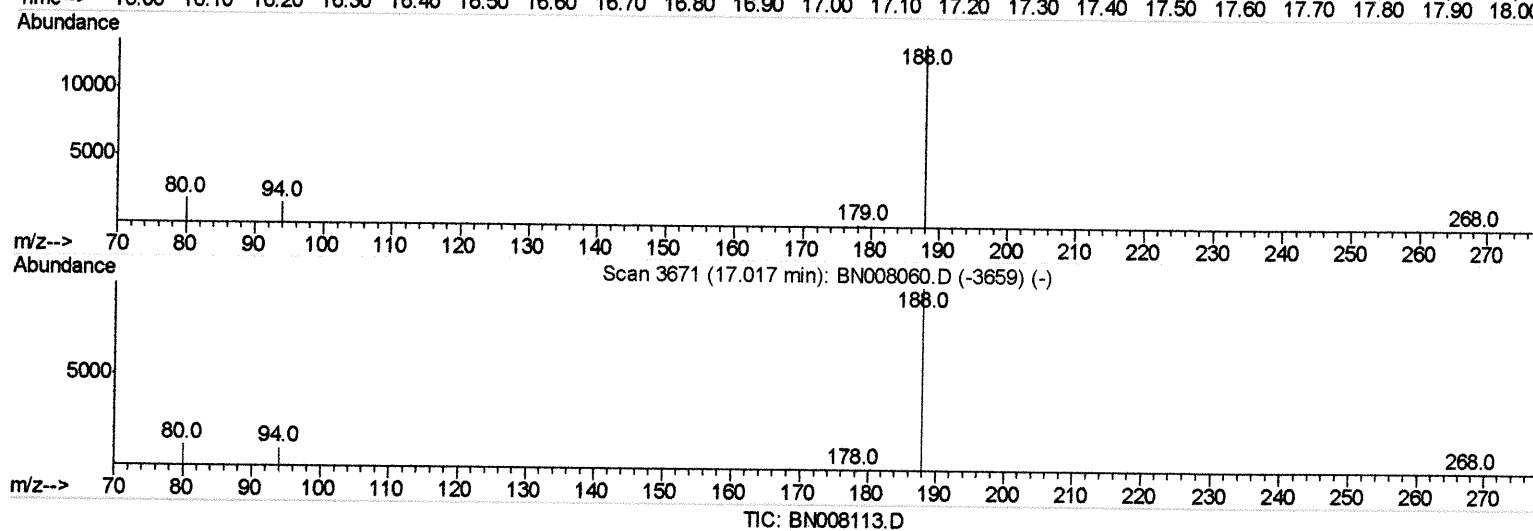
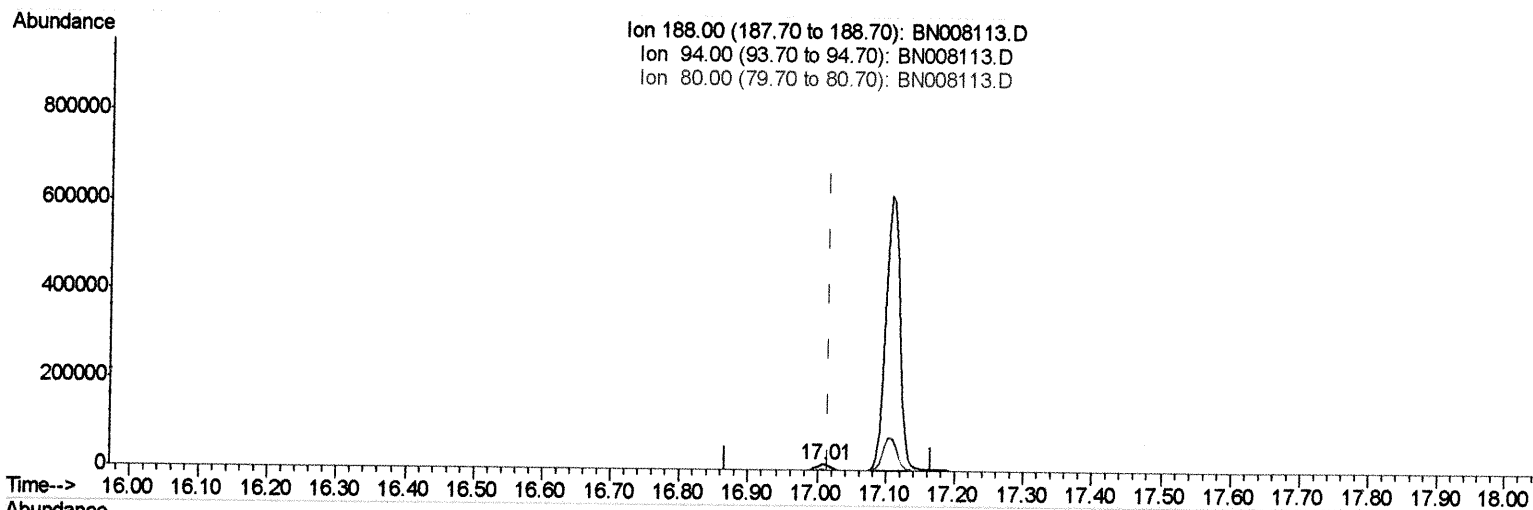
Quant Time: Oct 12 21:40:50 2019

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 11 19:05:54 2019

Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.008min (-0.008) 0.40ng/ul m *JU 10/16/19*

response 18808

Ion	Exp%	Act%
188.00	100	100
94.00	10.90	11.10
80.00	12.60	13.11
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\

Data File : BN008113.D

Acq On : 12 Oct 2019 15:21

Operator : JU

Sample : K5178-04

Misc :

ALS Vial : 46 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

BEPE7

Manual Integrations
APPROVEDmohammad
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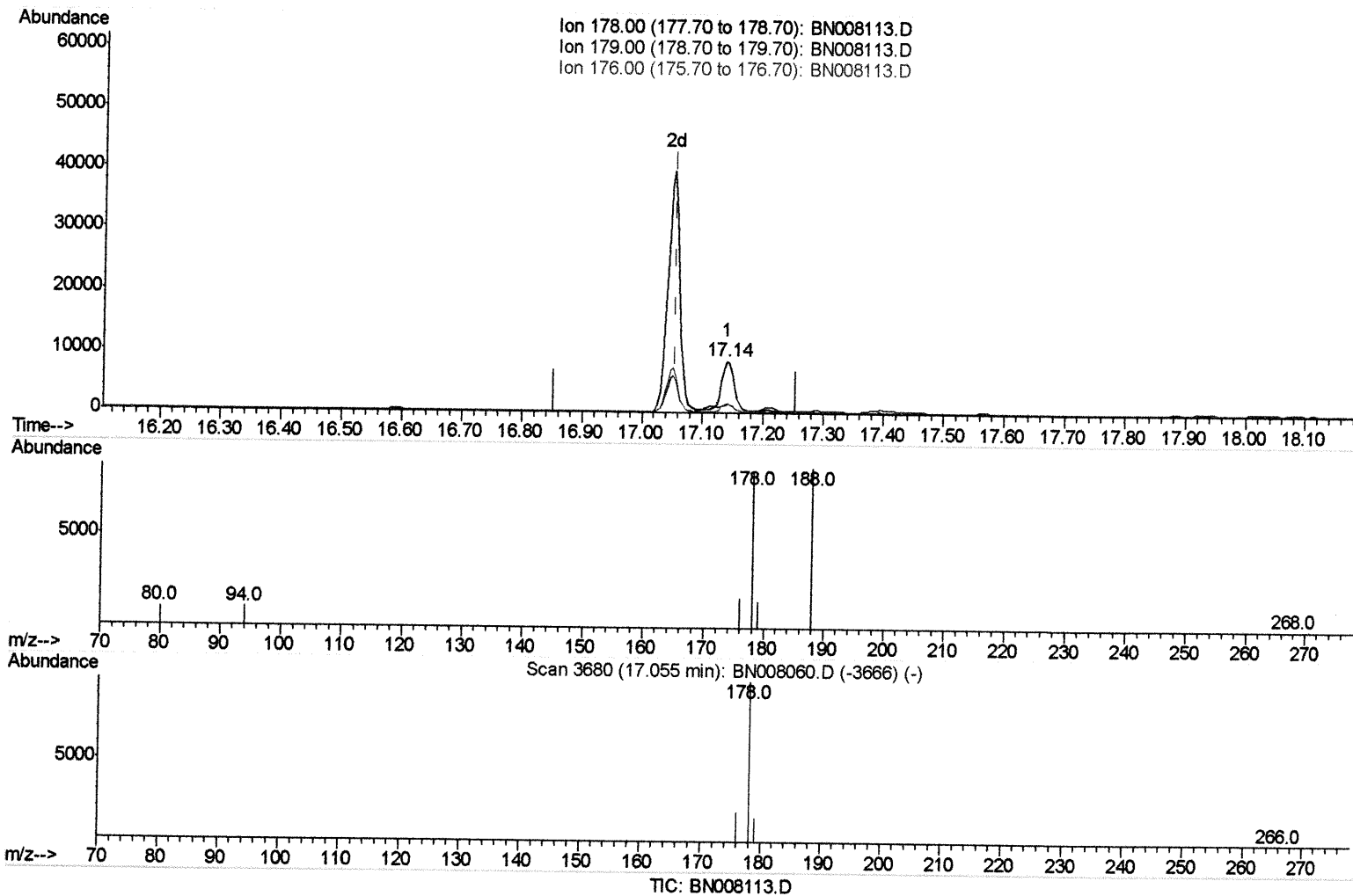
Quant Time: Oct 13 03:35:56 2019

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 11 19:05:54 2019

Response via : Initial Calibration



(12) Phenanthrene

17.139min (+0.084) 0.22ng/ul

response 11980

Ion	Exp%	Act%
178.00	100	100
179.00	16.00	17.25
176.00	19.30	19.10
0.00	0.00	0.00

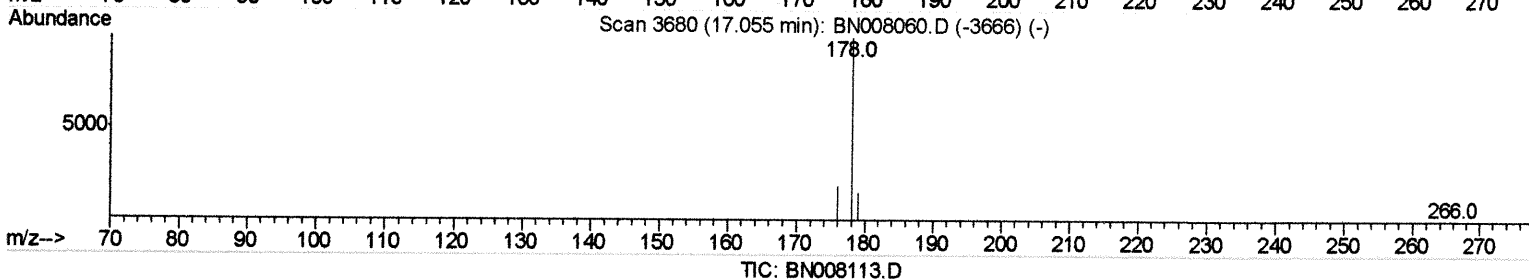
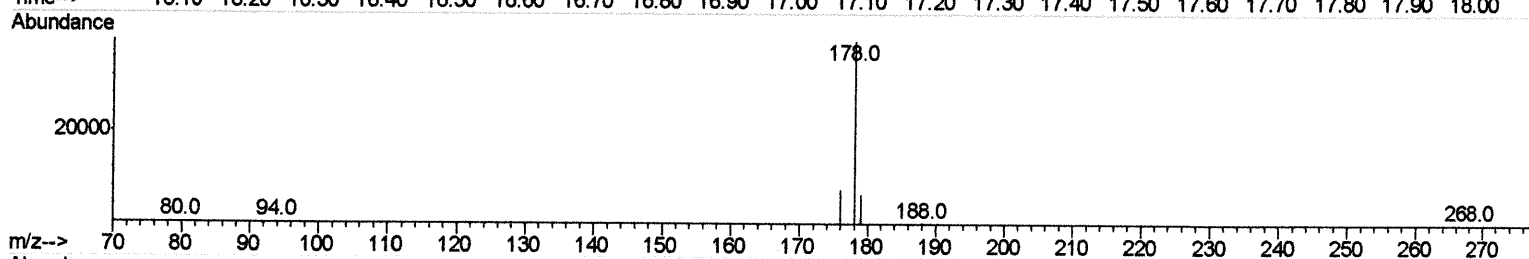
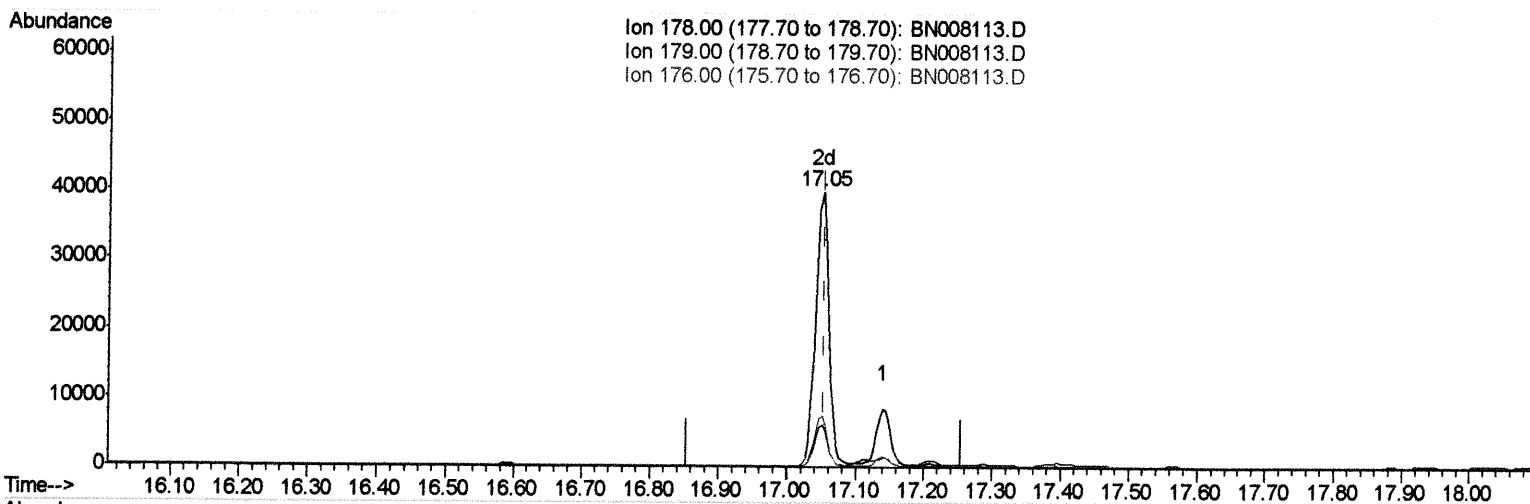
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008113.D
Acq On : 12 Oct 2019 15:21
Operator : JU
Sample : K5178-04
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE7

Manual Integrations
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mohammad
10/15/2019 7:58:48 AM

Quant Time: Oct 13 03:35:56 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 : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(12) Phenanthrene

17.051min (-0.004) 0.98ng/ul m *JU 10/16/19*

response 54115

Ion	Exp%	Act%
178.00	100	100
179.00	16.00	15.69
176.00	19.30	18.63
0.00	0.00	0.00

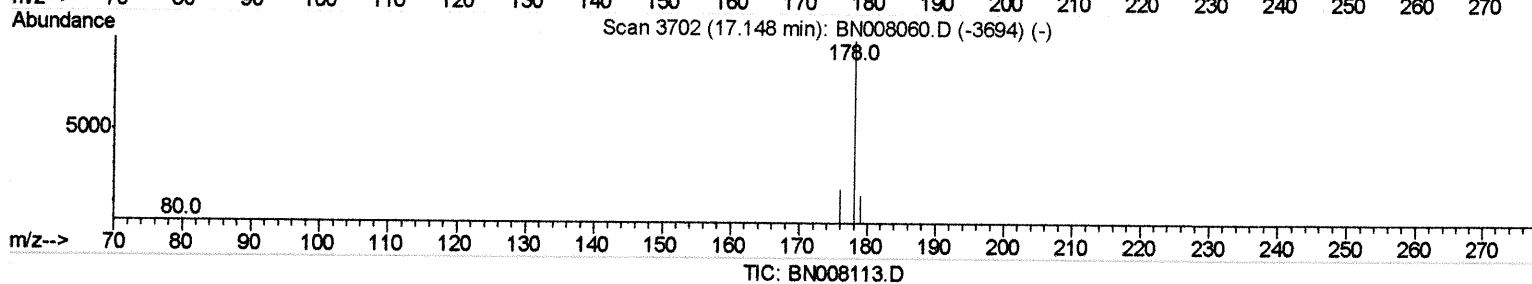
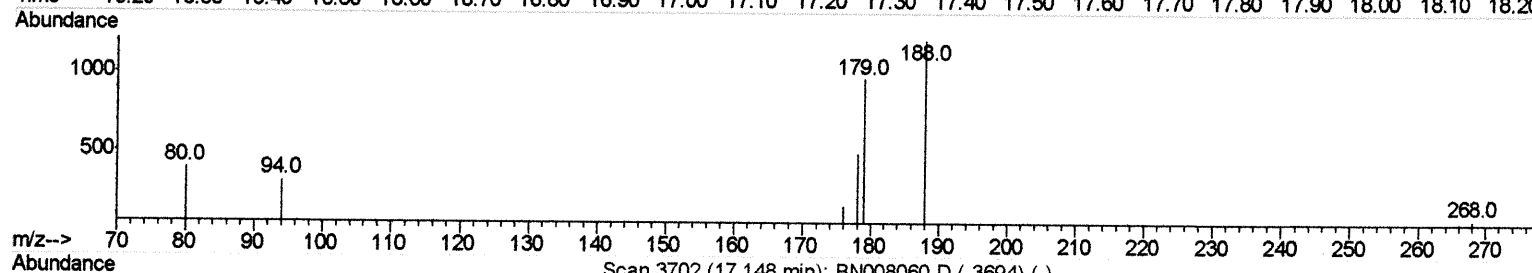
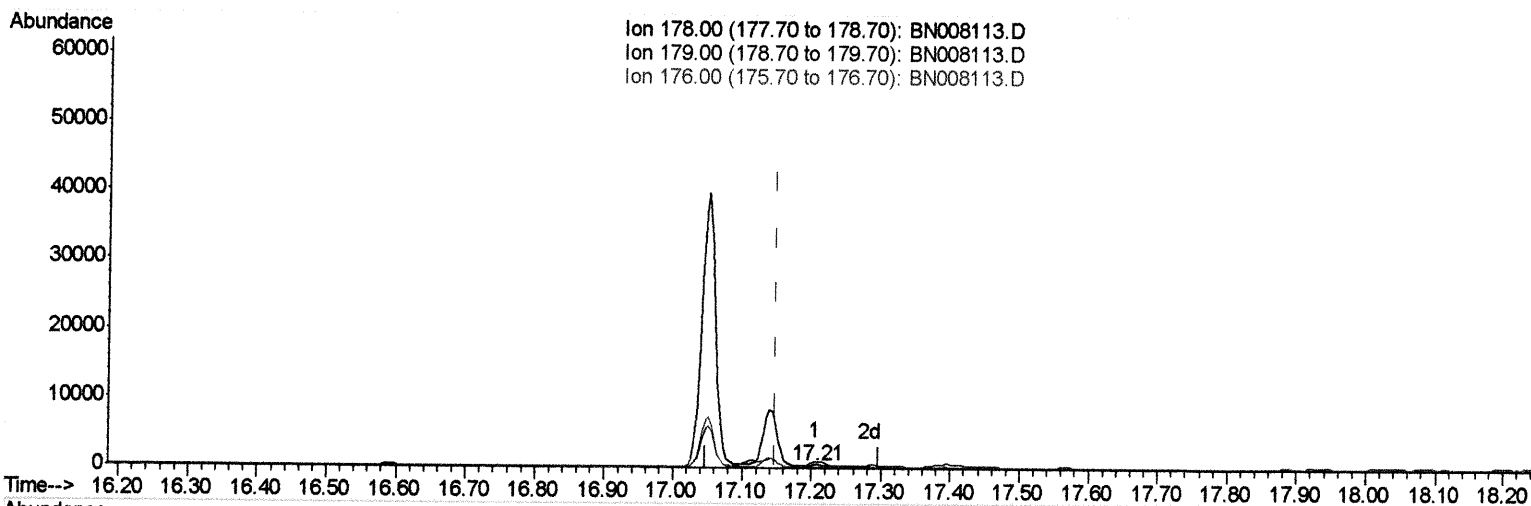
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008113.D
Acq On : 12 Oct 2019 15:21
Operator : JU
Sample : K5178-04
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE7

Manual Integrations
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Quant Time: Oct 13 03:35:56 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 : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(13) Anthracene

17.207min (+0.059) 0.01ng/ul

response 445

Ion	Exp%	Act%
178.00	100	100
179.00	16.30	195.96#
176.00	18.80	31.31#
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\

Data File : BN008113.D

Acq On : 12 Oct 2019 15:21

Operator : JU

Sample : K5178-04

Misc :

ALS Vial : 46 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

BEPE7

Manual Integrations
APPROVEDmohammad
10/15/2019 7:58:48 AM

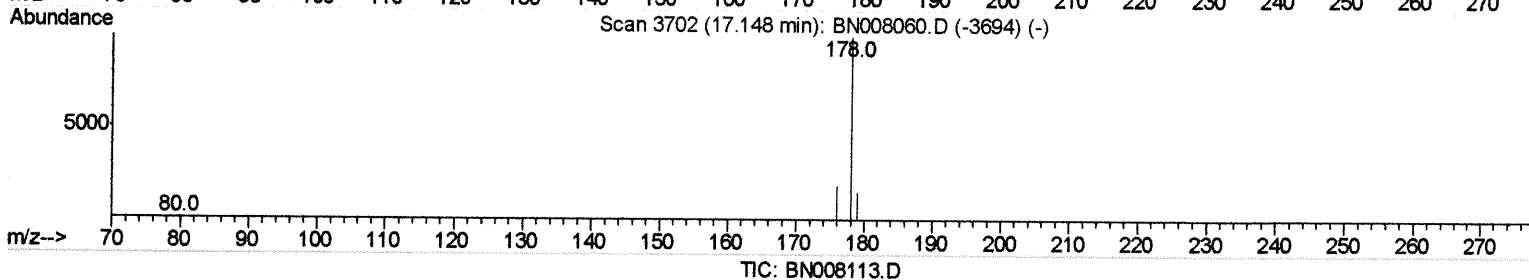
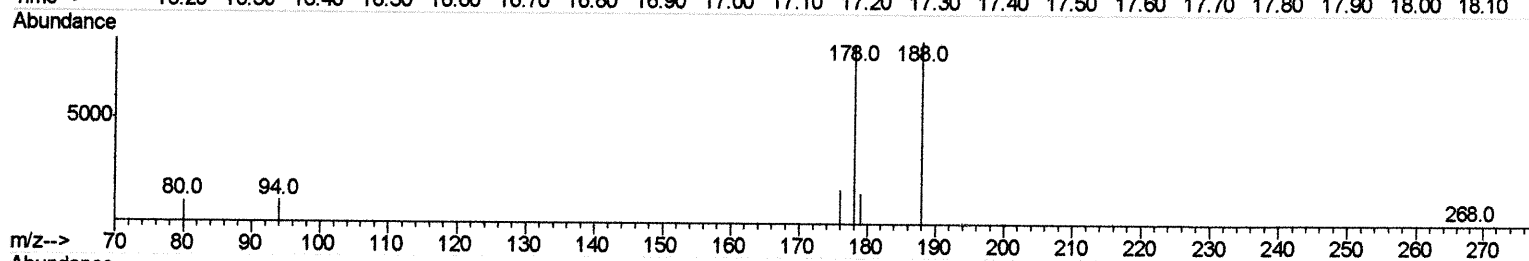
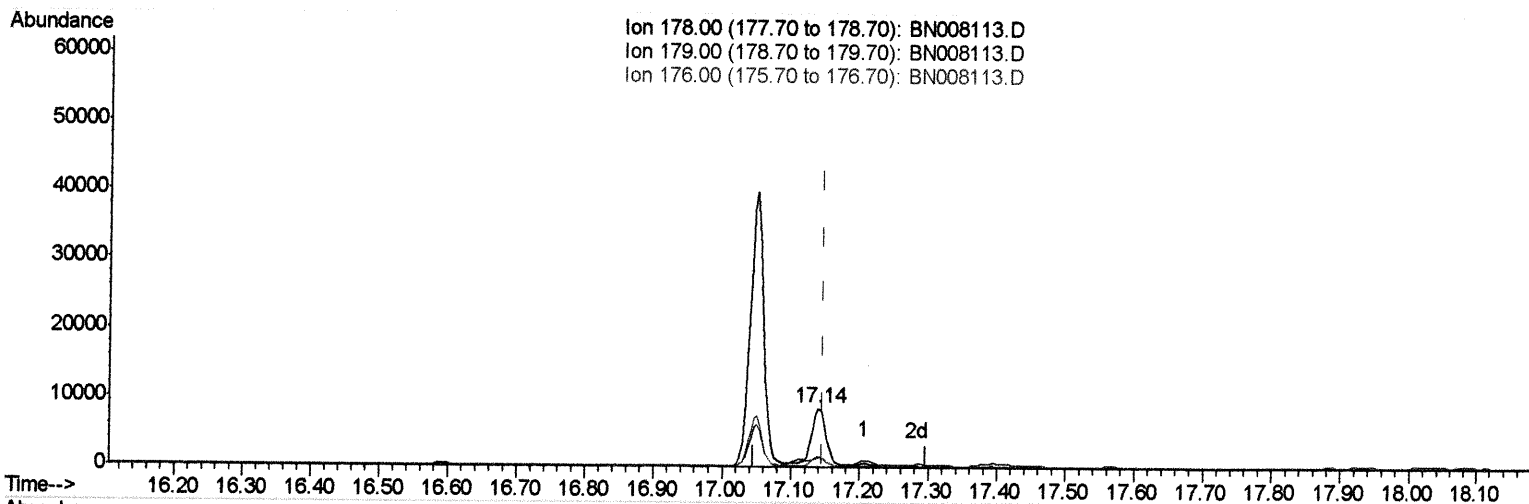
Quant Time: Oct 13 03:35:56 2019

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 11 19:05:54 2019

Response via : Initial Calibration



(13) Anthracene

17.139min (-0.008) 0.25ng/ul m *PU 10/16/19*

response 11992

Ion	Exp%	Act%
178.00	100	100
179.00	16.30	17.25
176.00	18.80	19.10
0.00	0.00	0.00

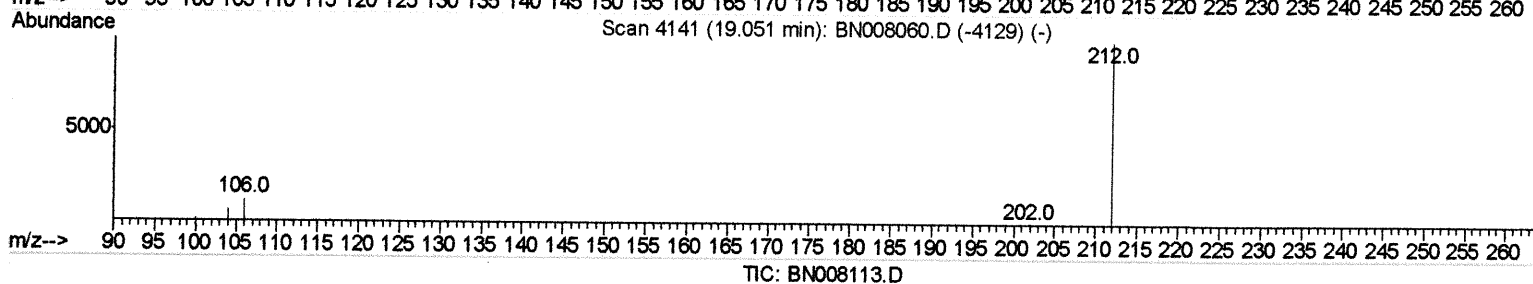
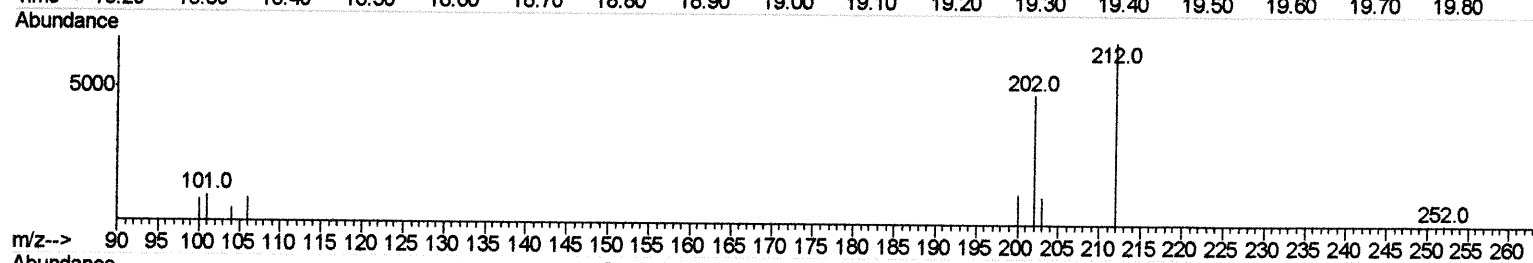
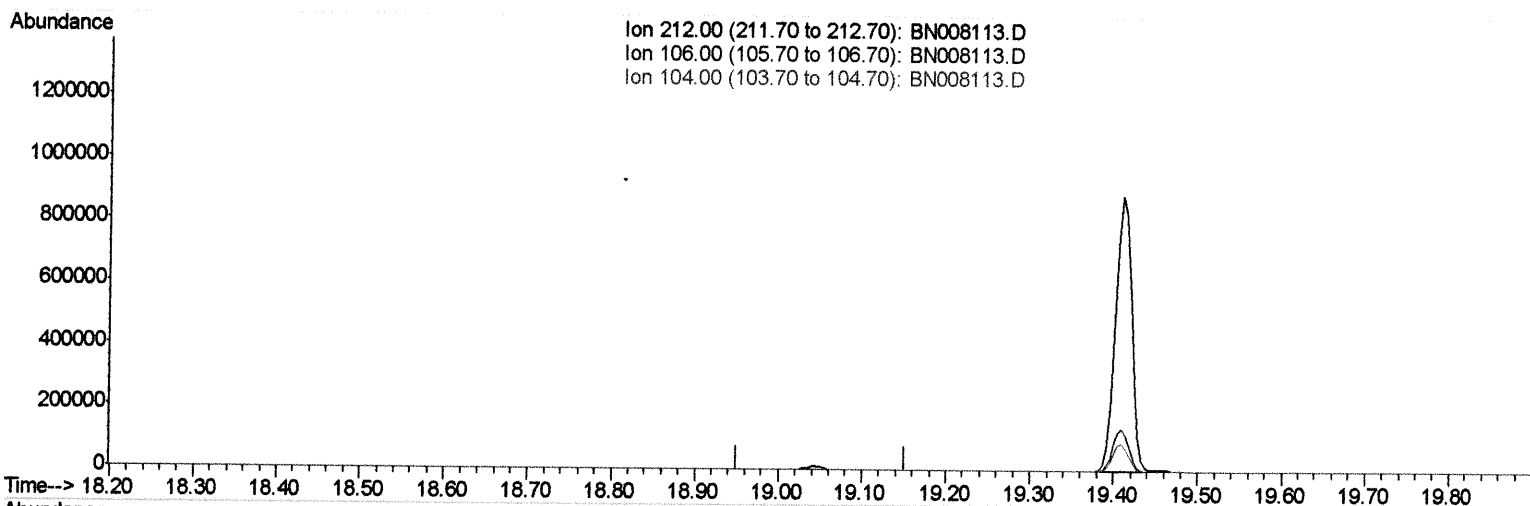
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008113.D
Acq On : 12 Oct 2019 15:21
Operator : JU
Sample : K5178-04
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE7

Manual Integrations
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10/15/2019 7:58:48 AM

Quant Time: Oct 13 03:35:56 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 : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.051min (-19.051) 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\BN101119\

Data File : BN008113.D

Acq On : 12 Oct 2019 15:21

Operator : JU

Sample : K5178-04

Misc :

ALS Vial : 46 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

BEPE7

Manual Integrations
APPROVEDmohammad
10/15/2019 7:58:48 AM

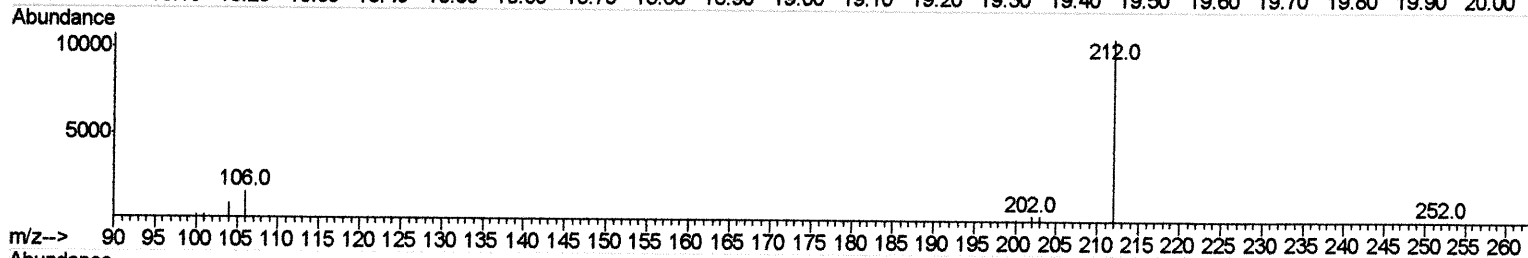
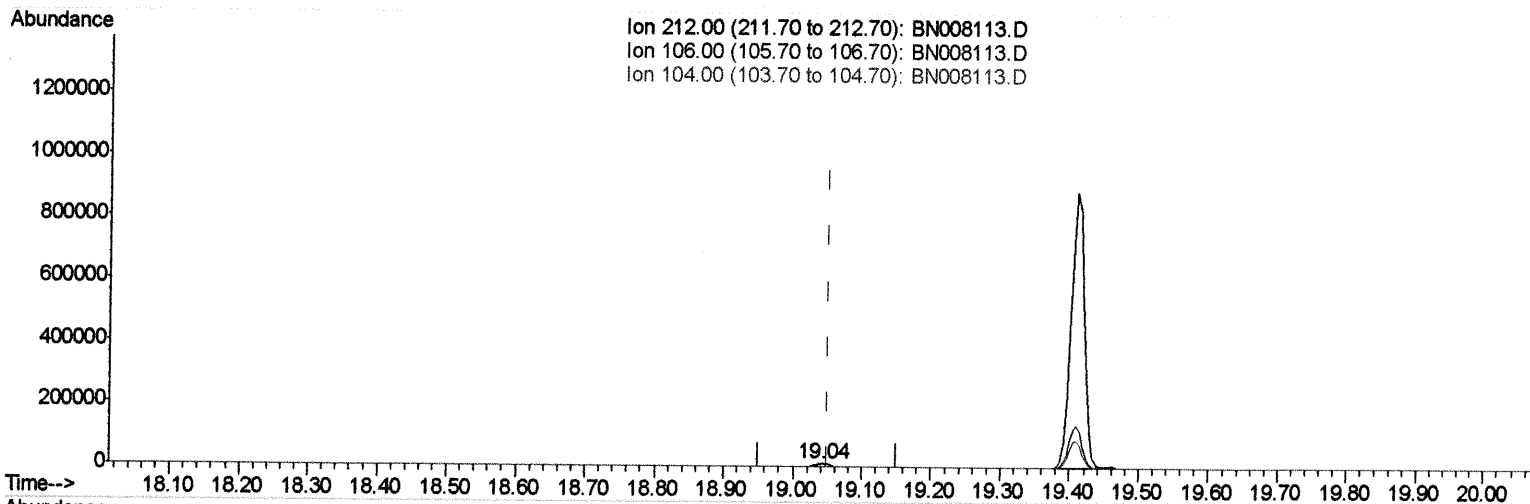
Quant Time: Oct 13 03:35:56 2019

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

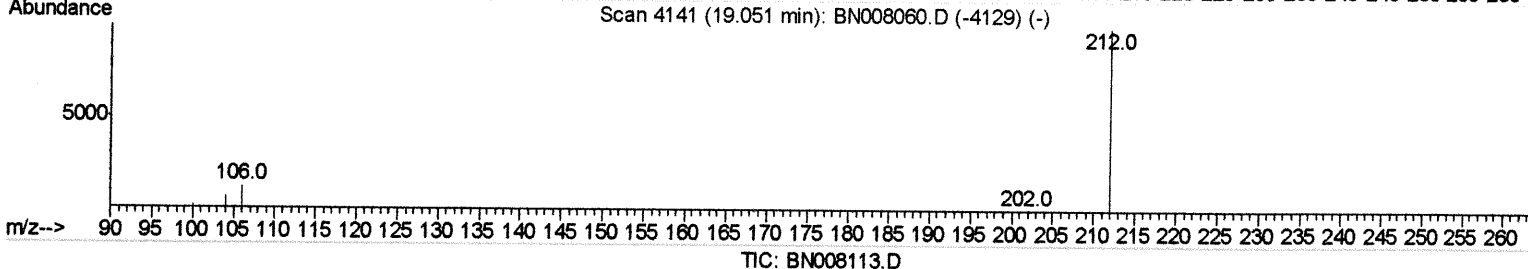
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 11 19:05:54 2019

Response via : Initial Calibration



Scan 4141 (19.051 min): BN008060.D (-4129) (-)



(14) Fluoranthene-d10 (SURR)

19.042min (-0.009) 0.21ng/ul m *24 10/16/19*

response 13737

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

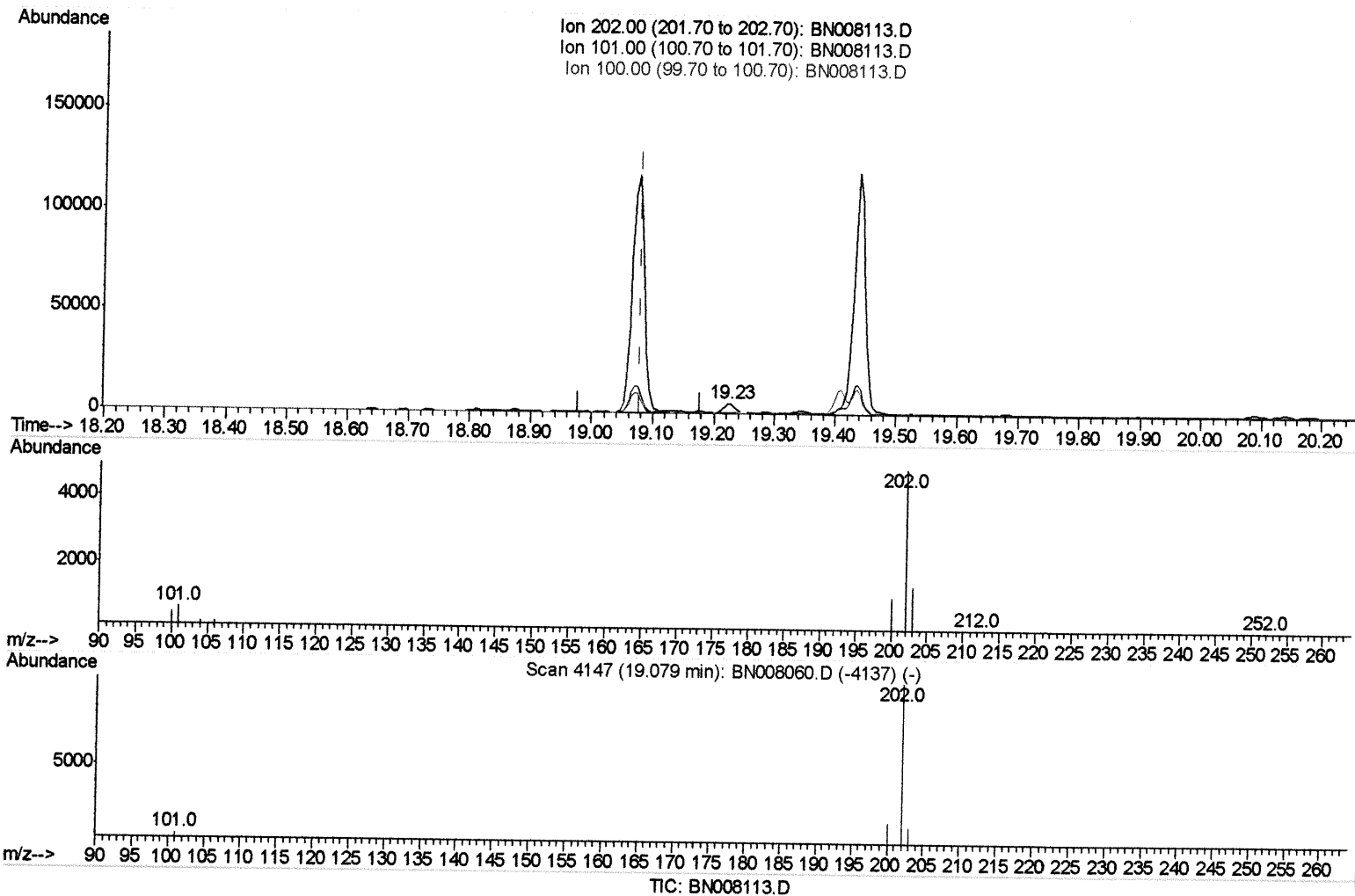
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008113.D
Acq On : 12 Oct 2019 15:21
Operator : JU
Sample : K5178-04
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE7

Manual Integrations
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10/15/2019 7:58:48 AM

Quant Time: Oct 13 03:35:56 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 : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(15) Fluoranthene (C)

19.228min (+0.149) 0.08ng/ul

response 5766

Ion	Exp%	Act%
202.00	100	100
101.00	11.20	13.27
100.00	8.50	10.09
0.00	0.00	0.00

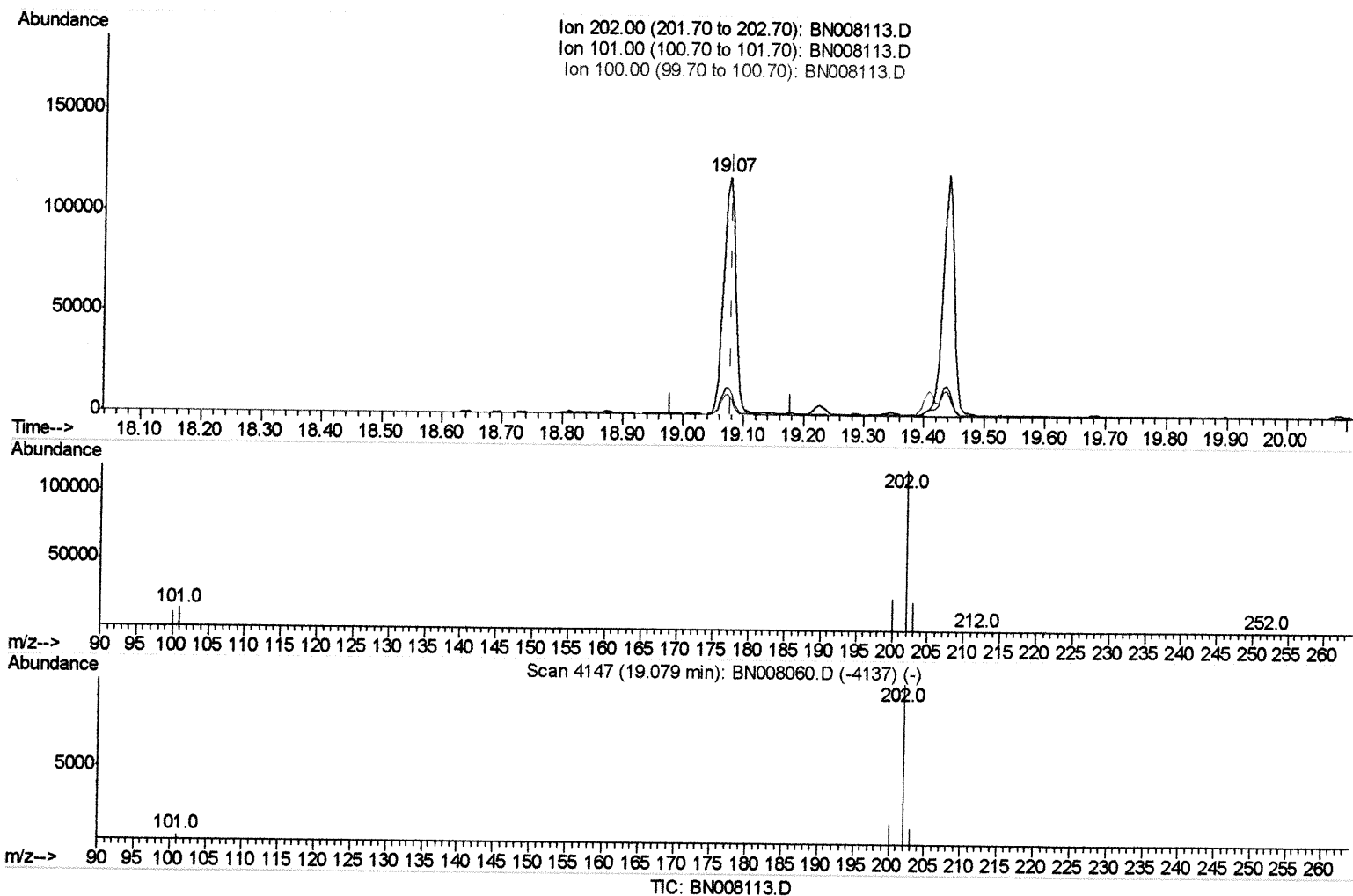
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008113.D
Acq On : 12 Oct 2019 15:21
Operator : JU
Sample : K5178-04
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE7

Manual Integrations
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10/15/2019 7:58:48 AM

Quant Time: Oct 13 03:35:56 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 : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(15) Fluoranthene (C)

19.074min (-0.005) 2.21ng/ul m *PL 10/16/19*

response 160690

Ion	Exp%	Act%
202.00	100	100
101.00	11.20	10.98
100.00	8.50	8.21
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\

Data File : BN008113.D

Acq On : 12 Oct 2019 15:21

Operator : JU

Sample : K5178-04

Misc :

ALS Vial : 46 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

BEPE7

Manual Integrations
APPROVEDmohammad
10/15/2019 7:58:48 AM

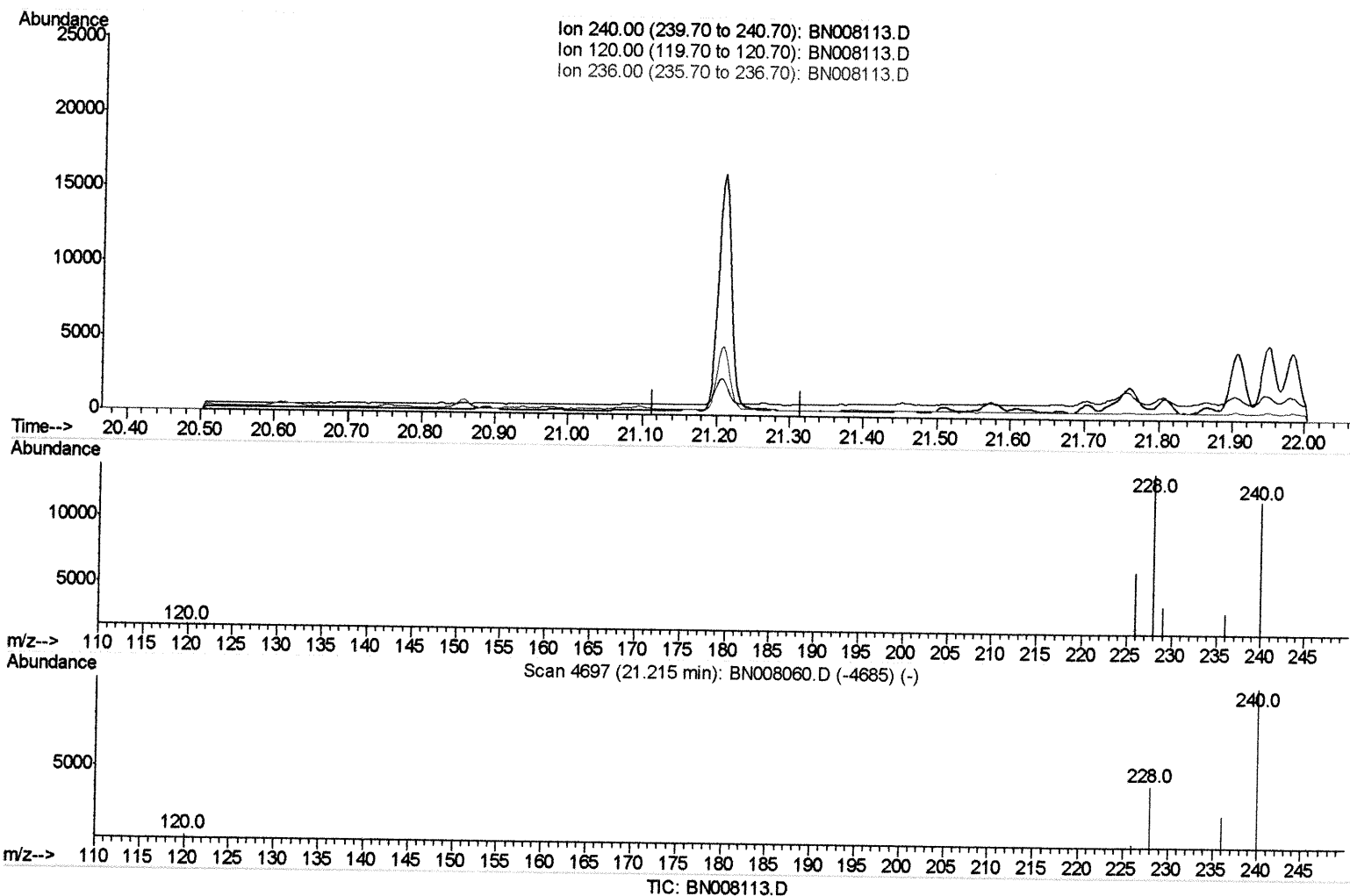
Quant Time: Oct 13 03:35:56 2019

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 11 19:05:54 2019

Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.215min (-21.215) 0.00ng/ui

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

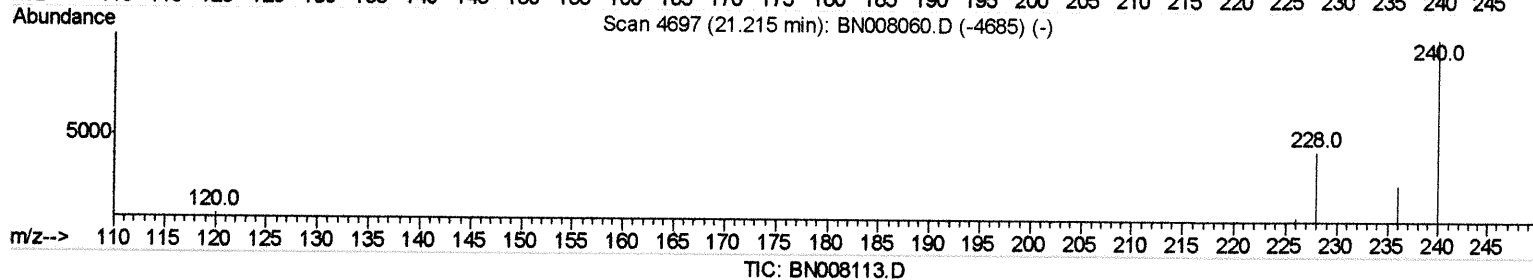
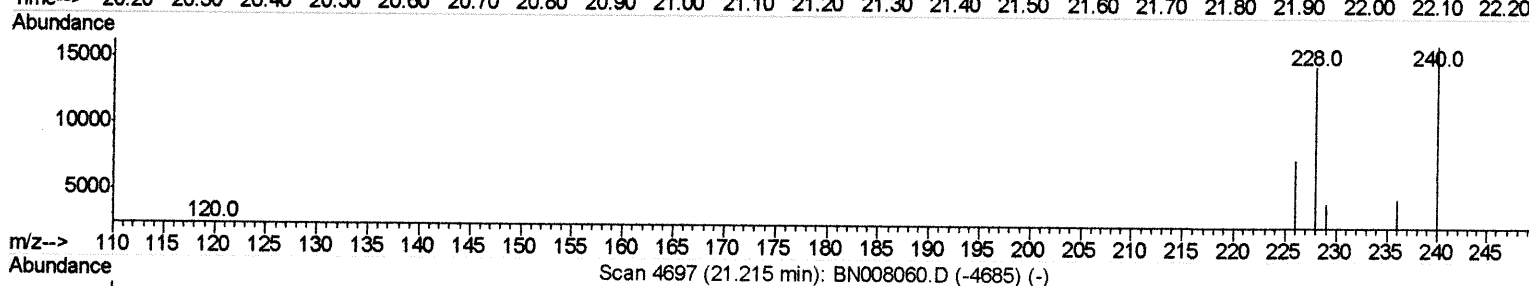
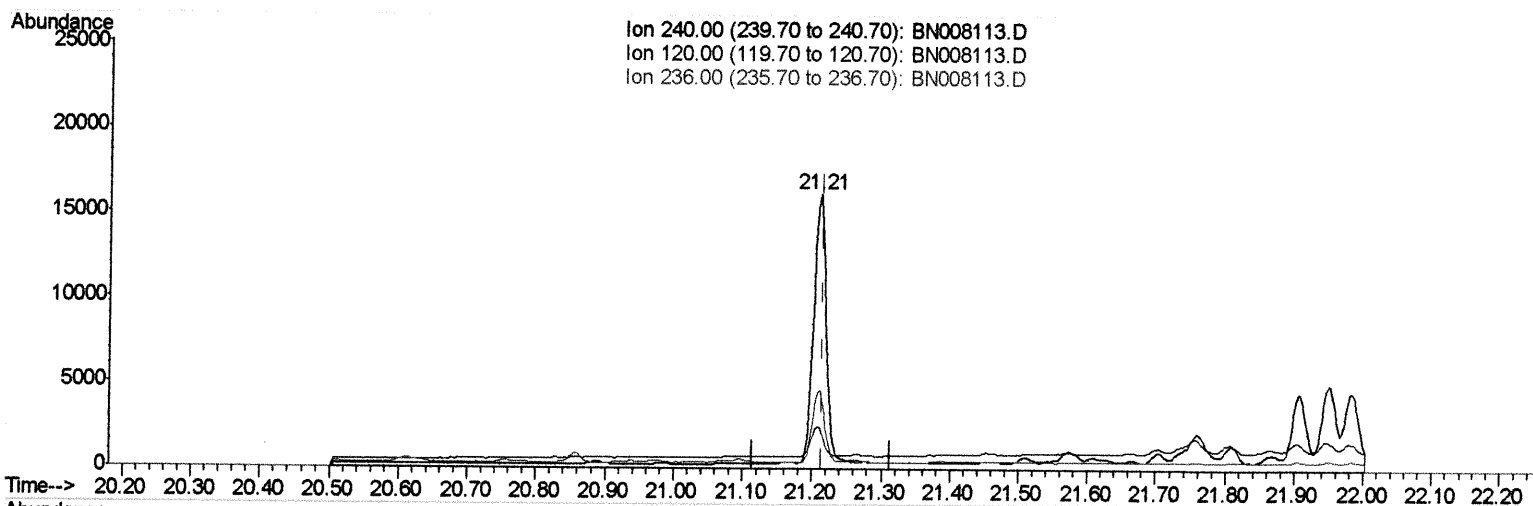
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008113.D
Acq On : 12 Oct 2019 15:21
Operator : JU
Sample : K5178-04
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE7

Manual Integrations
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10/15/2019 7:58:48 AM

Quant Time: Oct 13 03:35:56 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 : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.209min (-0.006) 0.40ng/ul m *ju 10/16/19*

response 19853

Ion	Exp%	Act%
240.00	100	100
120.00	14.70	15.17
236.00	28.40	28.45
0.00	0.00	0.00

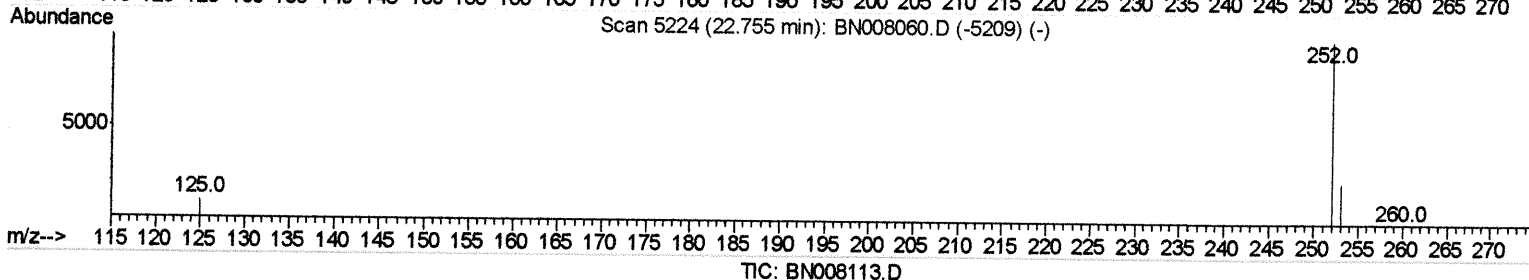
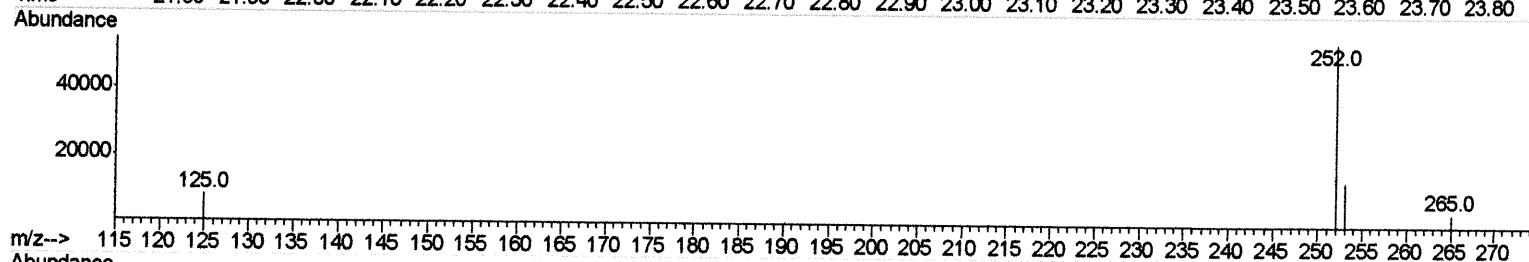
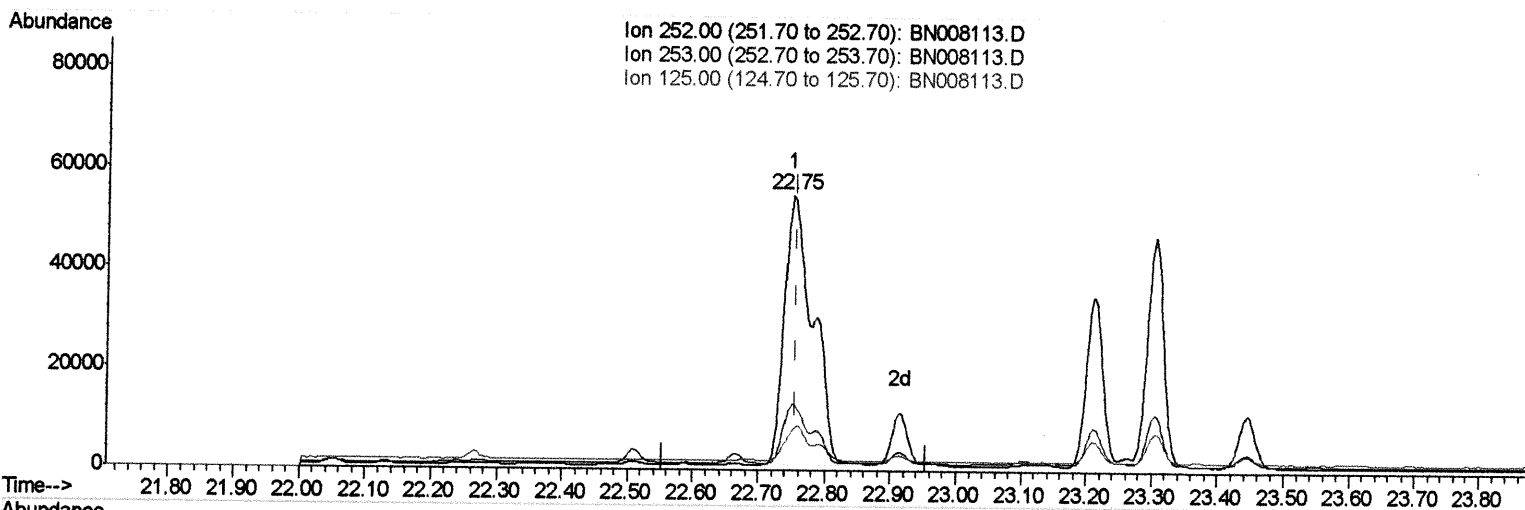
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008113.D
Acq On : 12 Oct 2019 15:21
Operator : JU
Sample : K5178-04
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE7

Manual Integrations
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10/15/2019 7:58:48 AM

Quant Time: Oct 13 03:38:11 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 : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.749min (-0.006) 2.67ng/ul

response 162998

Ion	Exp%	Act%
252.00	100	100
253.00	26.70	24.20
125.00	16.20	14.65
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\

Data File : BN008113.D

Acq On : 12 Oct 2019 15:21

Operator : JU

Sample : K5178-04

Misc :

ALS Vial : 46 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

BEPE7

Manual Integrations
APPROVEDmohammad
10/15/2019 7:58:48 AM

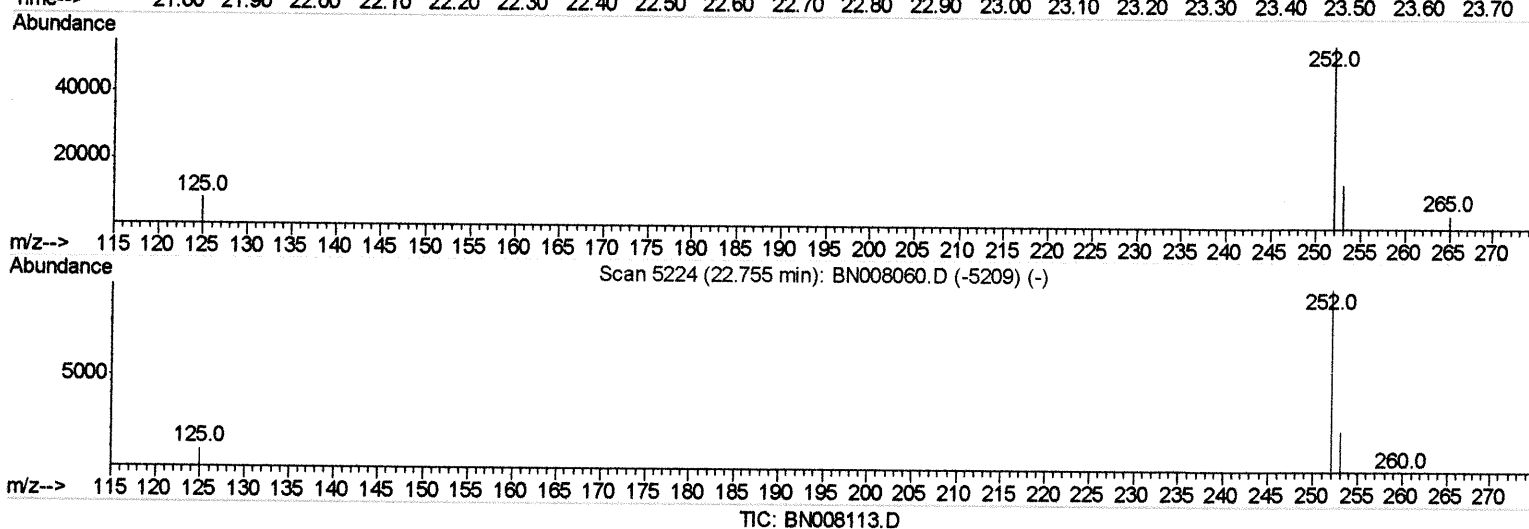
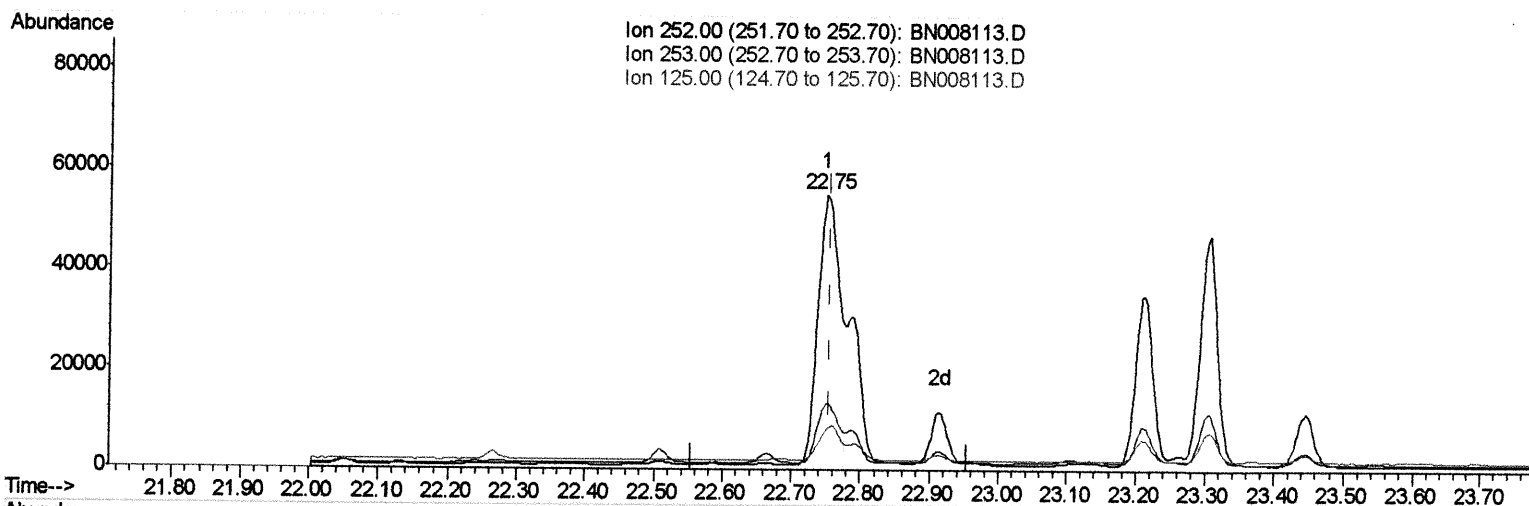
Quant Time: Oct 13 03:38:11 2019

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 11 19:05:54 2019

Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.749min (-0.006) 1.93ng/ul m *24 10/16/19*

response 117785

Ion	Exp%	Act%
252.00	100	100
253.00	26.70	24.20
125.00	16.20	14.65
0.00	0.00	0.00

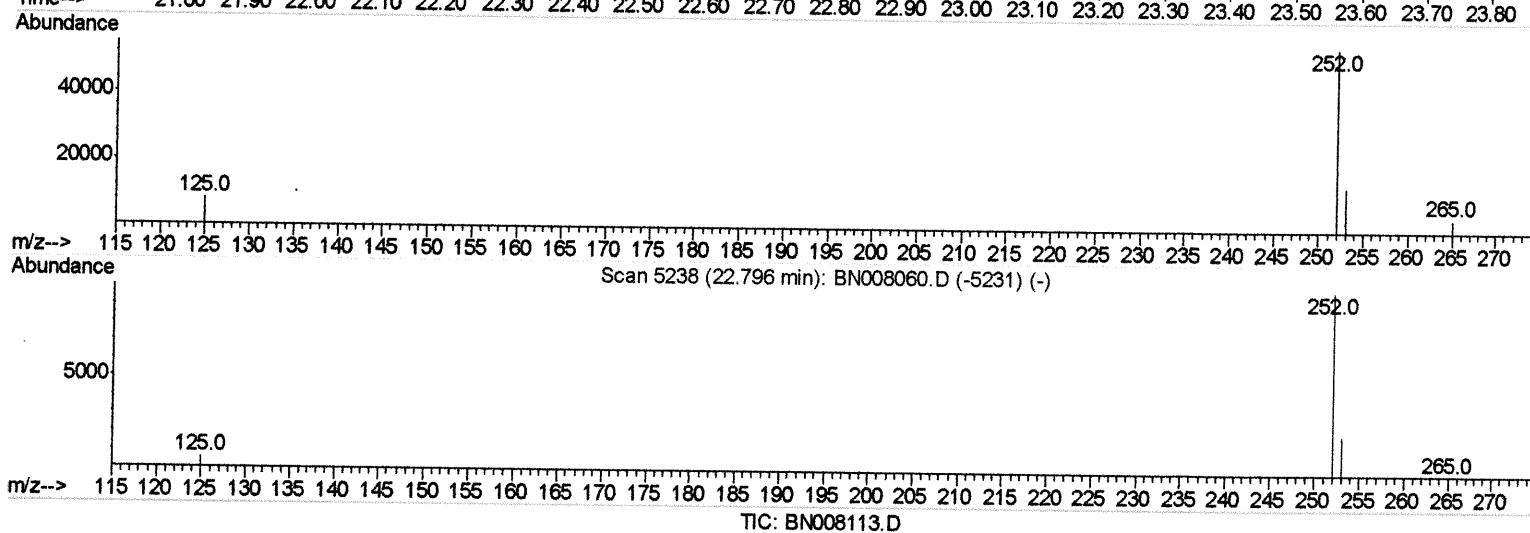
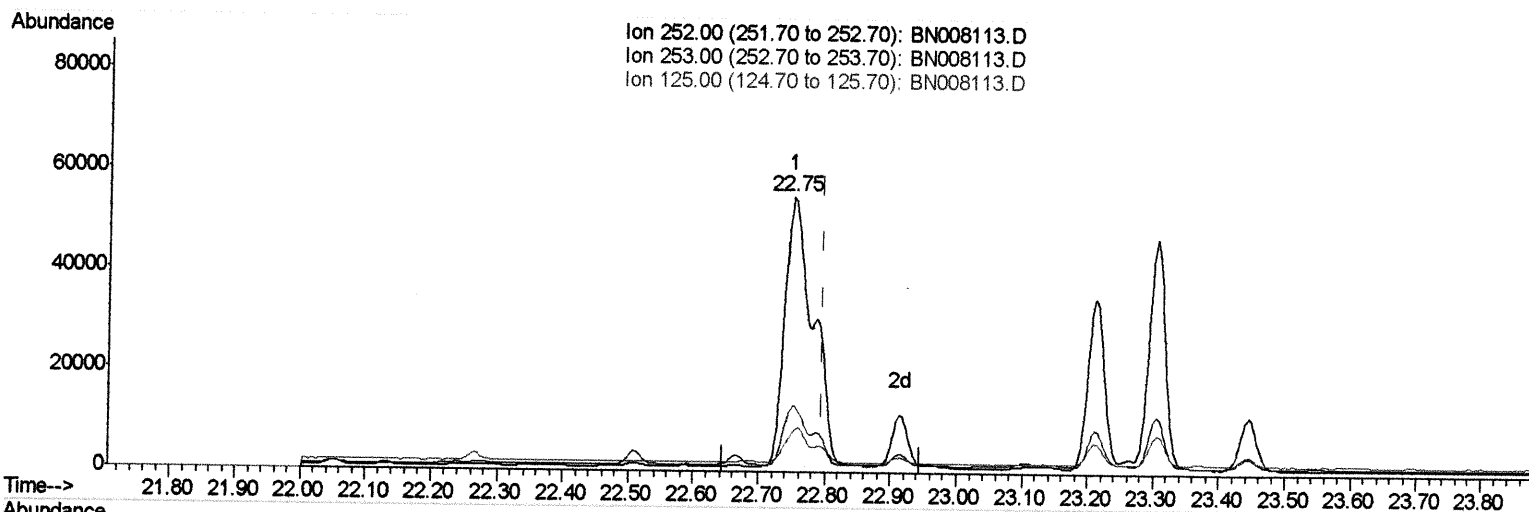
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
Data File : BN008113.D
Acq On : 12 Oct 2019 15:21
Operator : JU
Sample : K5178-04
Misc :
ALS Vial : 46 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BEPE7

Manual Integrations
APPROVED

mohammad
10/15/2019 7:58:48 AM

Quant Time: Oct 13 03:38:11 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 : Fri Oct 11 19:05:54 2019
Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.749min (-0.047) 2.36ng/ul

response 162998

Ion	Exp%	Act%
252.00	100	100
253.00	26.60	24.20
125.00	15.40	14.65
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\

Data File : BN008113.D

Acq On : 12 Oct 2019 15:21

Operator : JU

Sample : K5178-04

Misc :

ALS Vial : 46 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

BEPE7

Manual Integrations
APPROVEDmohammad
10/15/2019 7:58:48 AM

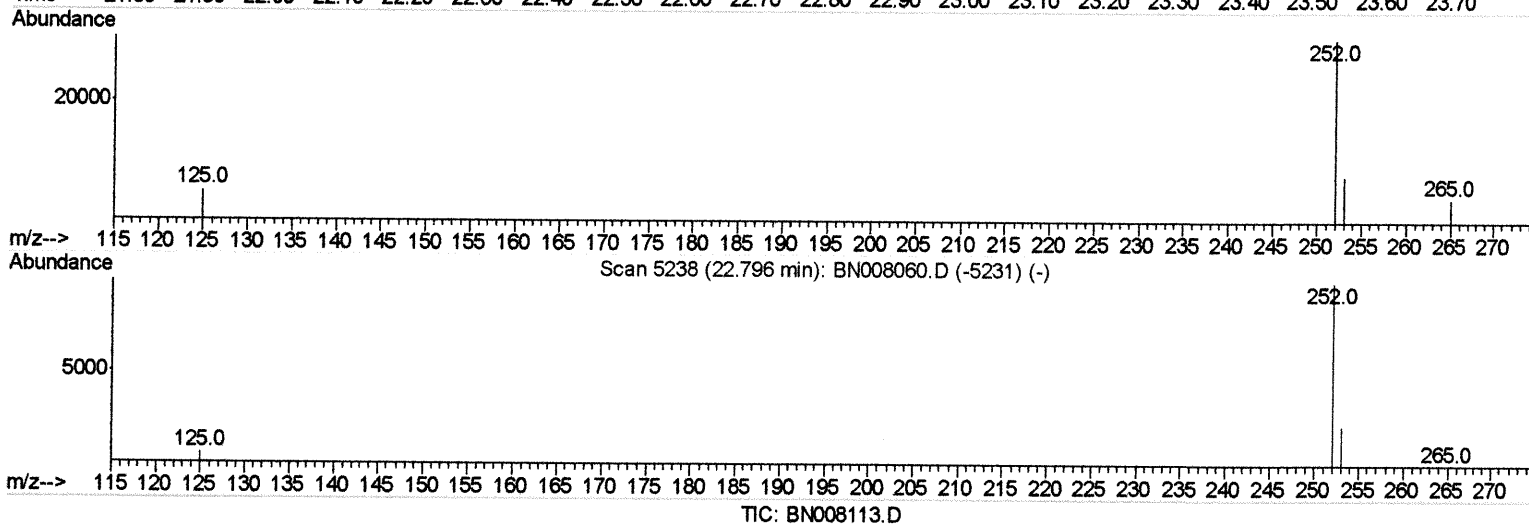
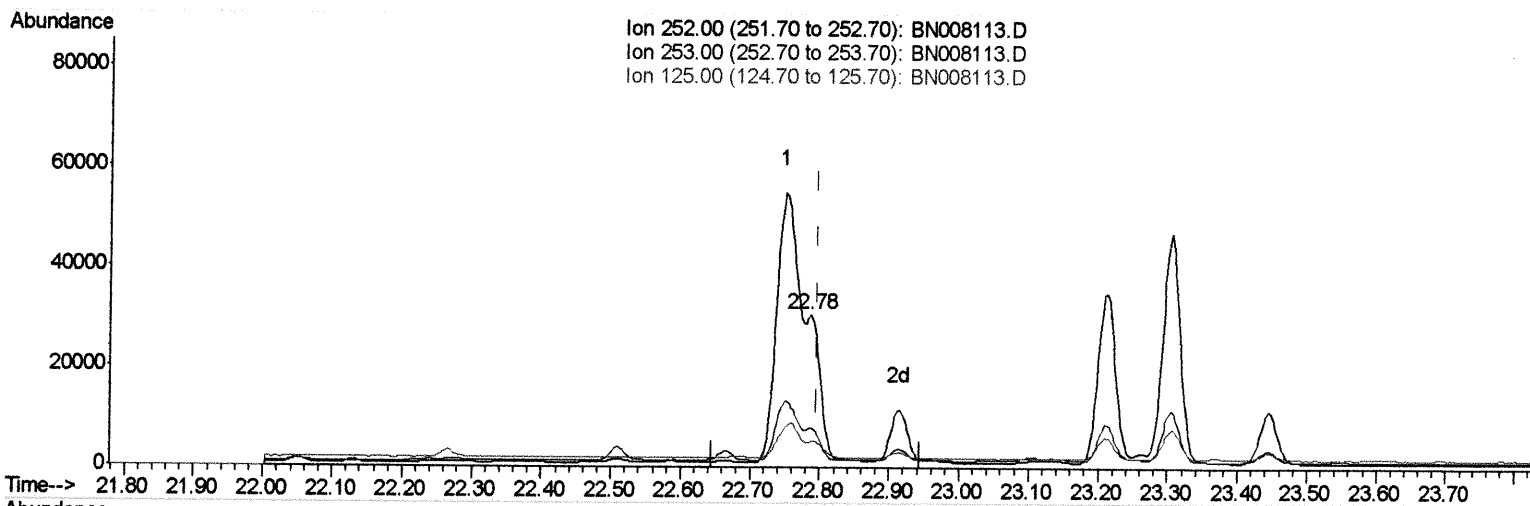
Quant Time: Oct 13 03:38:11 2019

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

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Oct 11 19:05:54 2019

Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.785min (-0.012) 0.55ng/ul m *JU 10/16/19*

response 37667

Ion	Exp%	Act%
252.00	100	100
253.00	26.60	25.83
125.00	15.40	16.73
0.00	0.00	0.00

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN101119\
 Data File : BN008113.D
 Acq On : 12 Oct 2019 15:21
 Operator : JU
 Sample : K5178-04
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 BEPE7

Manual Integrations
 APPROVED

mohammad
 10/15/2019 7:58:48 AM

Quant Time: Oct 13 03:39:05 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 : Fri Oct 11 19:05:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) 1,4-Dichlorobenzene-d4	7.63	152	2555	0.40	ng/ul	0.00
2) Naphthalene-d8	10.39	136	12395	0.40	ng/ul	-0.01
6) Acenaphthene-d10	14.26	164	8194	0.40	ng/ul	0.00
10) Phenanthrene-d10	17.01	188	18808m	0.40	ng/ul	0.00
16) Chrysene-d12	21.21	240	19853m	0.40	ng/ul	0.00
20) Perylene-d12	23.40	264	18742	0.40	ng/ul	0.00
System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	12.00	152	3944	0.19	ng/ul	0.00
14) Fluoranthene-d10	19.04	212	13737m	0.21	ng/ul	0.00
Target Compounds						
					Ovalue	
3) Naphthalene	10.44	128	2131	0.060	ng/ul#	90
5) 2-Methylnaphthalene	12.07	142	1122	0.046	ng/ul	98
7) Acenaphthylene	13.98	152	7521	0.193	ng/ul	98
8) Acenaphthene	14.32	153	1828	0.060	ng/ul	97
9) Fluorene	15.31	166	2286	0.066	ng/ul#	95
12) Phenanthrene	17.05	178	54115m	0.983	ng/ul	} JU 10/16/19
13) Anthracene	17.14	178	11992m	0.247	ng/ul	
15) Fluoranthene	19.07	202	160690m	2.209	ng/ul	
17) Pyrene	19.44	202	153816	1.946	ng/ul	99
18) Benzo(a)anthracene	21.19	228	93120	1.290	ng/ul	97
19) Chrysene	21.24	228	103255	1.166	ng/ul	98
21) Benzo(b)fluoranthene	22.75	252	117785m	1.931	ng/ul	} JU 10/16/19
22) Benzo(k)fluoranthene	22.78	252	37667m	0.545	ng/ul	
23) Benzo(a)pyrene	23.30	252	79594	1.240	ng/ul#	90
24) Indeno(1,2,3-cd)pyrene	25.57	276	49366	0.653	ng/ul#	94
25) Dibenzo(a,h)anthracene	25.58	278	11162	0.187	ng/ul#	80
26) Benzo(g,h,i)perylene	26.24	276	48642	0.702	ng/ul	100

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