

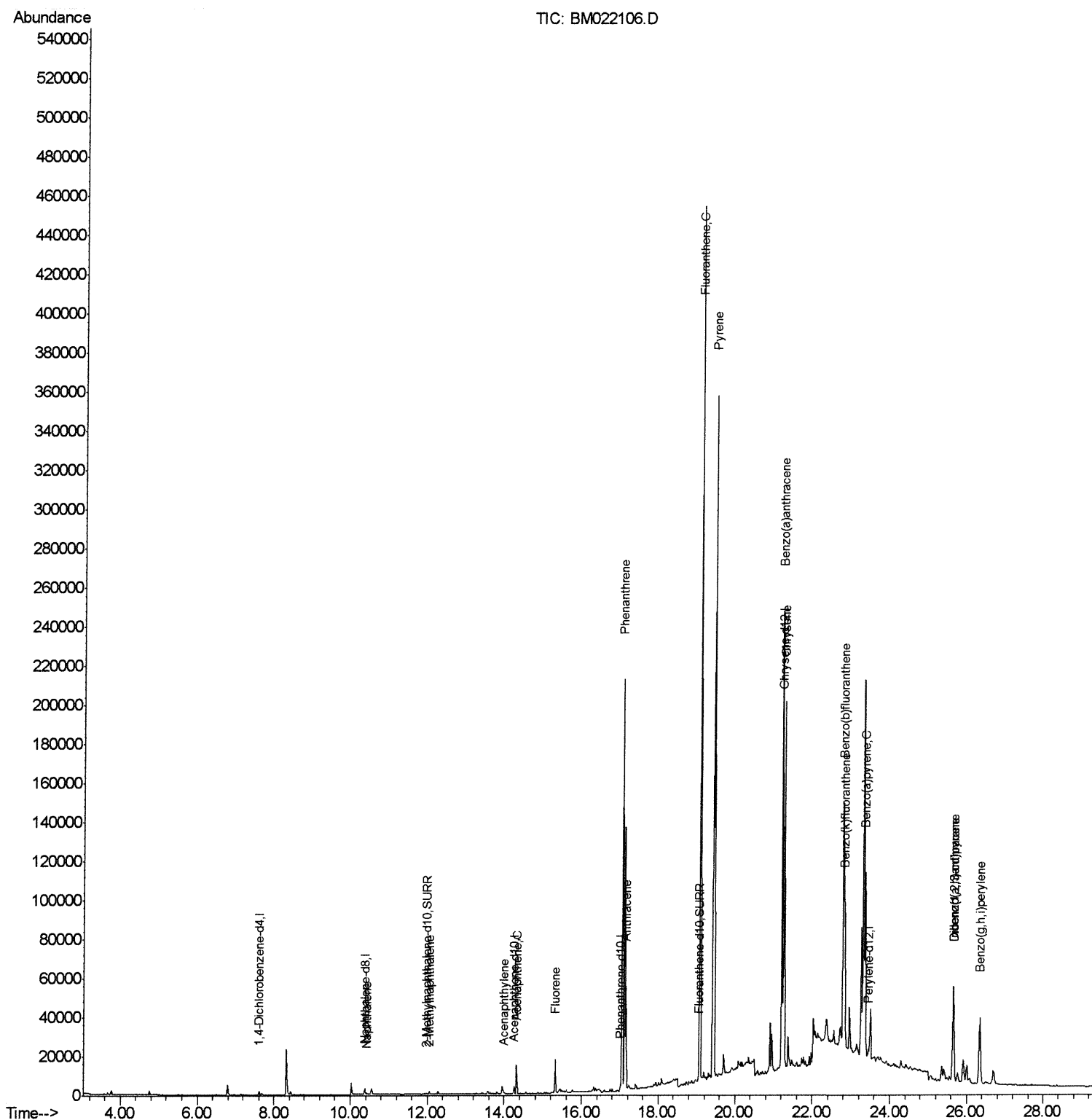
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG1

Manual Integrations
 APPROVED

mohammad
 8/15/2019 5:09:03 PM

Quant Time: Aug 14 16:46:55 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 14 13:53:23 2019
 Response via : Initial Calibration



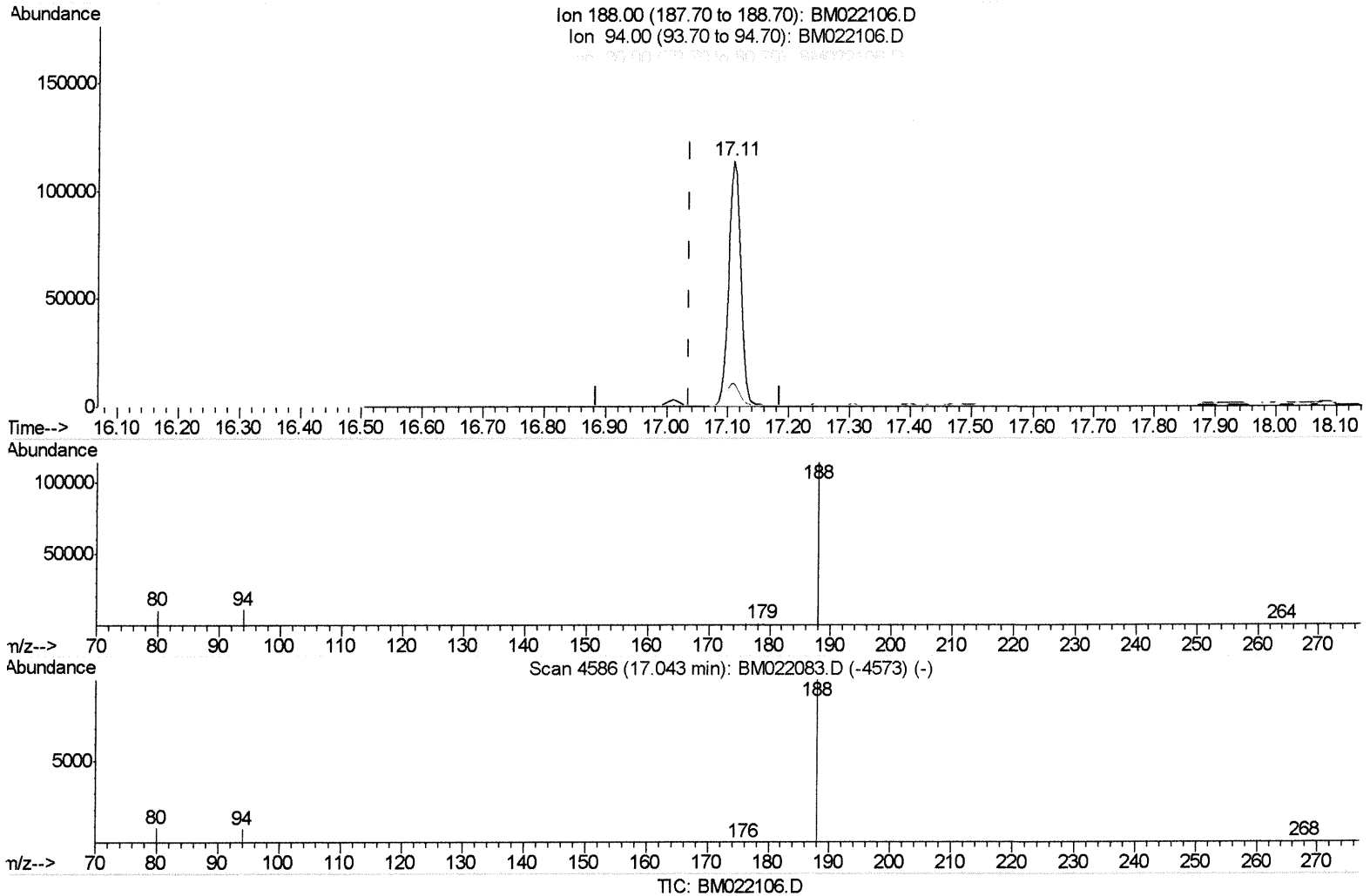
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
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Instrument :
 BNA_M
 ClientSampleId :
 C0AG1

Manual Integrations
 APPROVED

mohammad
 8/15/2019 5:09:03 PM

Quant Time: Aug 14 16:42:58 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 14 13:53:23 2019
 Response via : Initial Calibration



(10) Phenanthrene-d10 (I)
 17.109min (+0.073) 0.40ng/ul
 response 156909

Ion	Exp%	Act%
188.00	100	100
94.00	10.40	9.60
80.00	11.40	9.01#
0.00	0.00	0.00

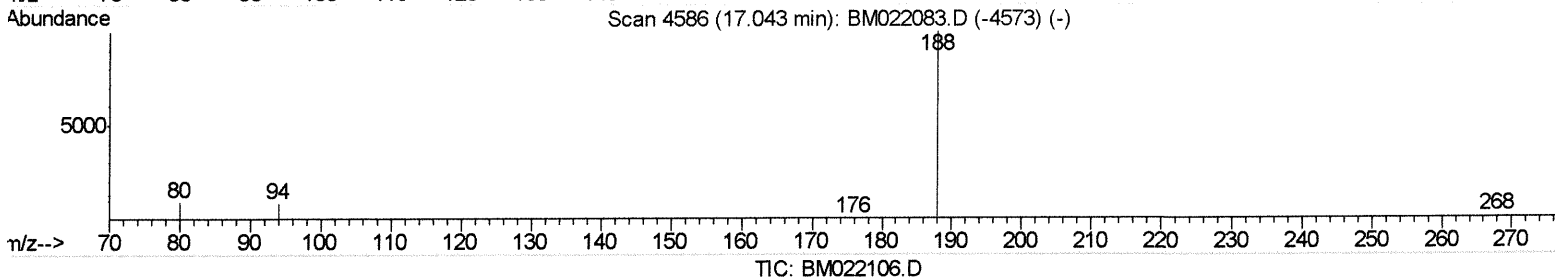
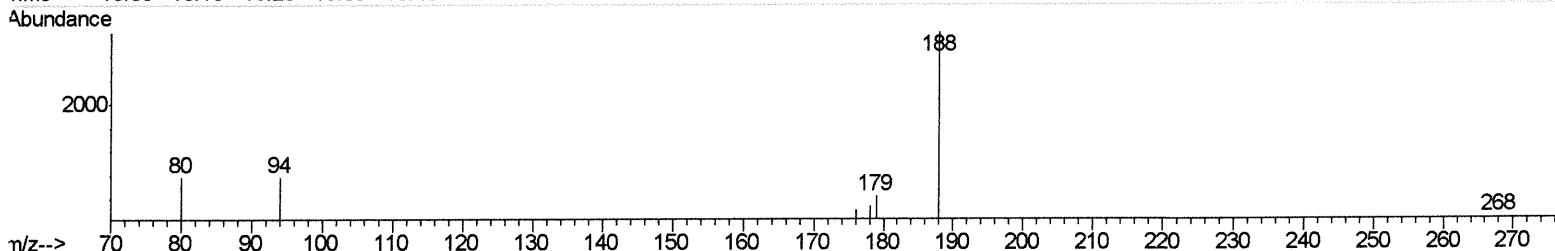
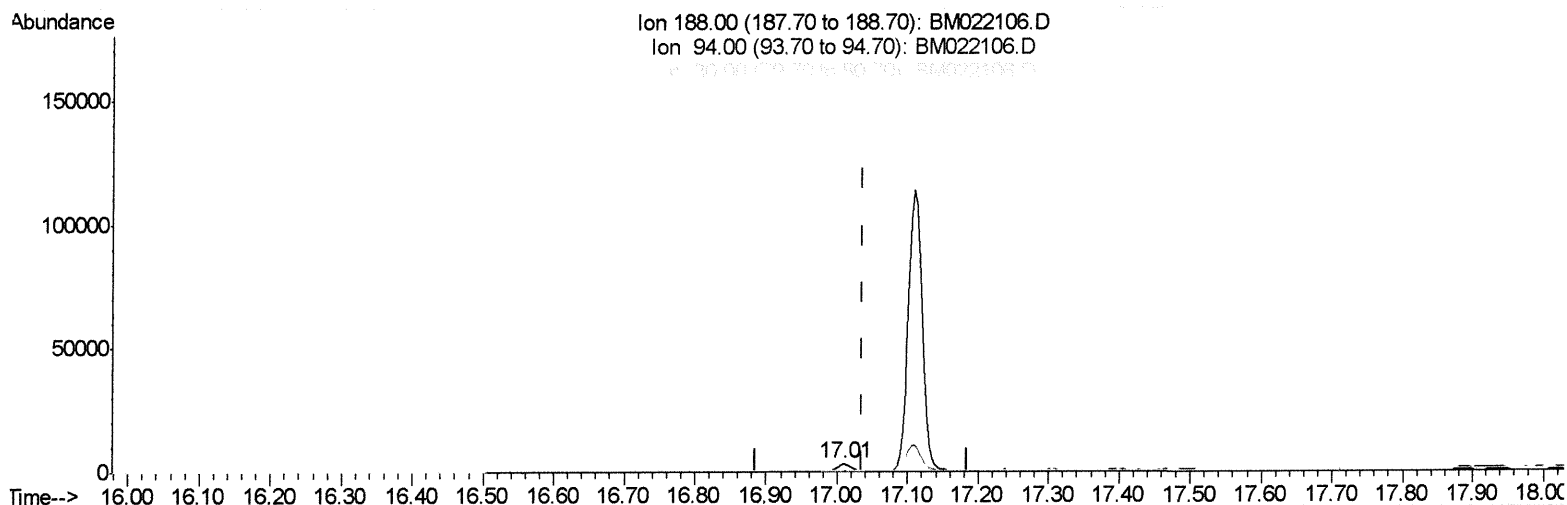
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
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 Operator : HP/JU
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Instrument :
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 ClientSampleId :
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Manual Integrations
 APPROVED

mohammad
 8/15/2019 5:09:03 PM

Quant Time: Aug 14 16:42:58 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 14 13:53:23 2019
 Response via : Initial Calibration



(10) Phenanthrene-d10 (I)

17.008min (-0.028) 0.40ng/ul m

JU
 8/15/19

response 4745

Ion	Exp%	Act%
188.00	100	100
94.00	10.40	24.02#
80.00	11.40	23.87#
0.00	0.00	0.00

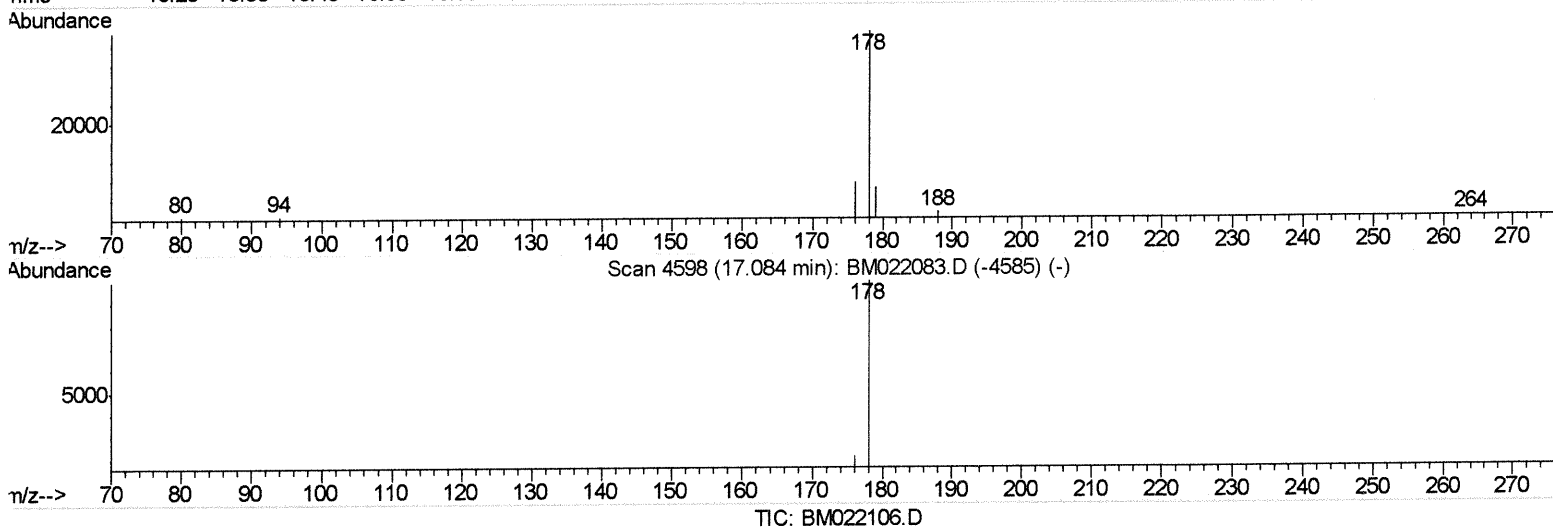
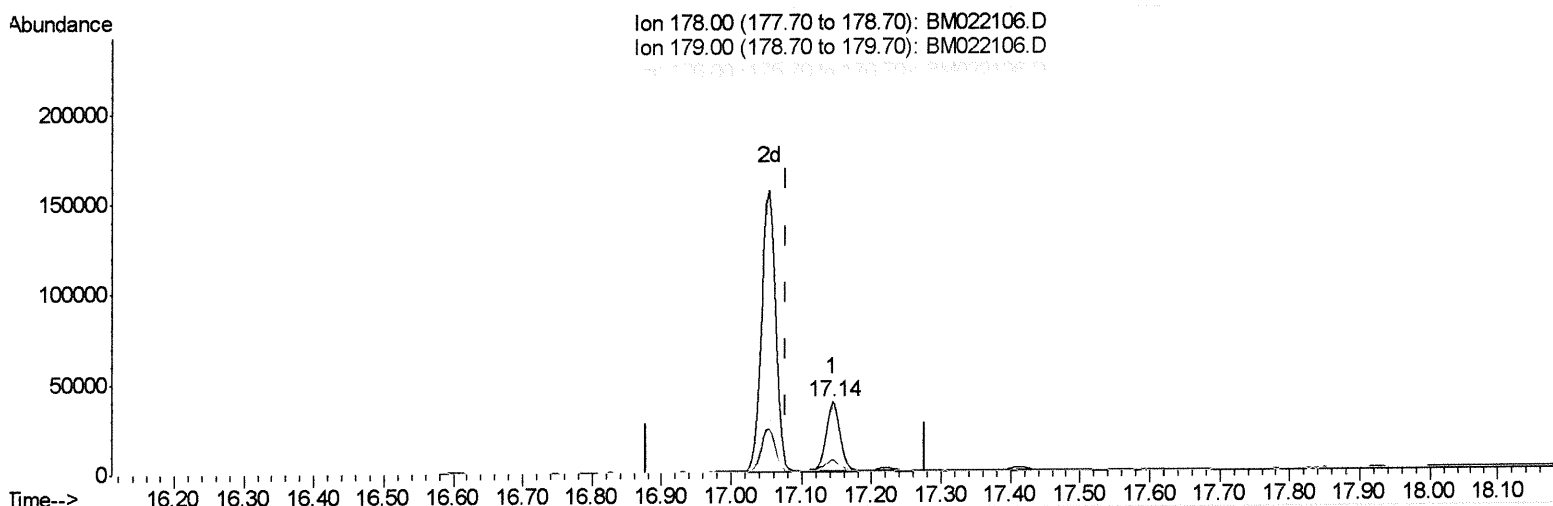
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG1

Manual Integrations
 APPROVED

mohammad
 8/15/2019 5:09:03 PM

Quant Time: Aug 14 16:44:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 14 13:53:23 2019
 Response via : Initial Calibration



(12) Phenanthrene

17.143min (+0.066) 3.89ng/ul

response 53699

Ion	Exp%	Act%
178.00	100	100
179.00	17.70	16.84
176.00	21.00	19.50
0.00	0.00	0.00

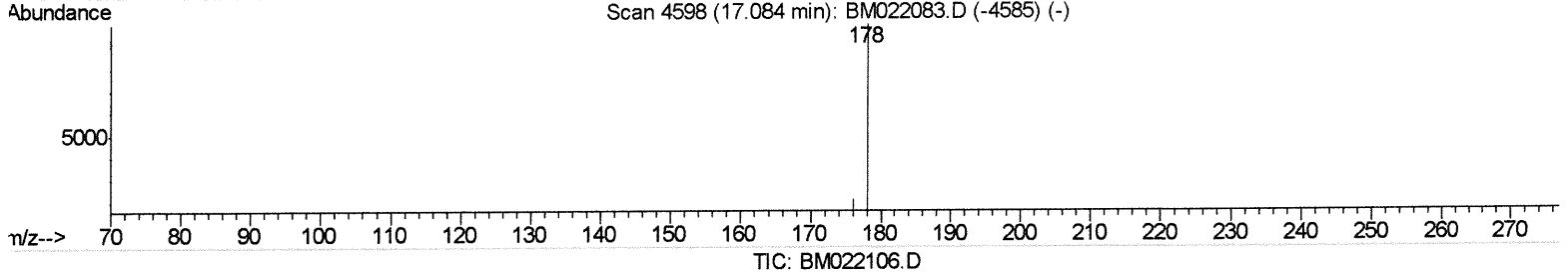
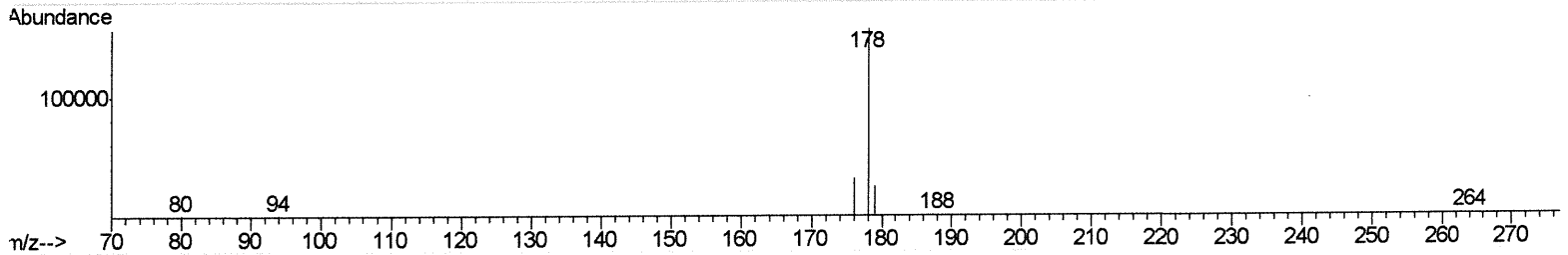
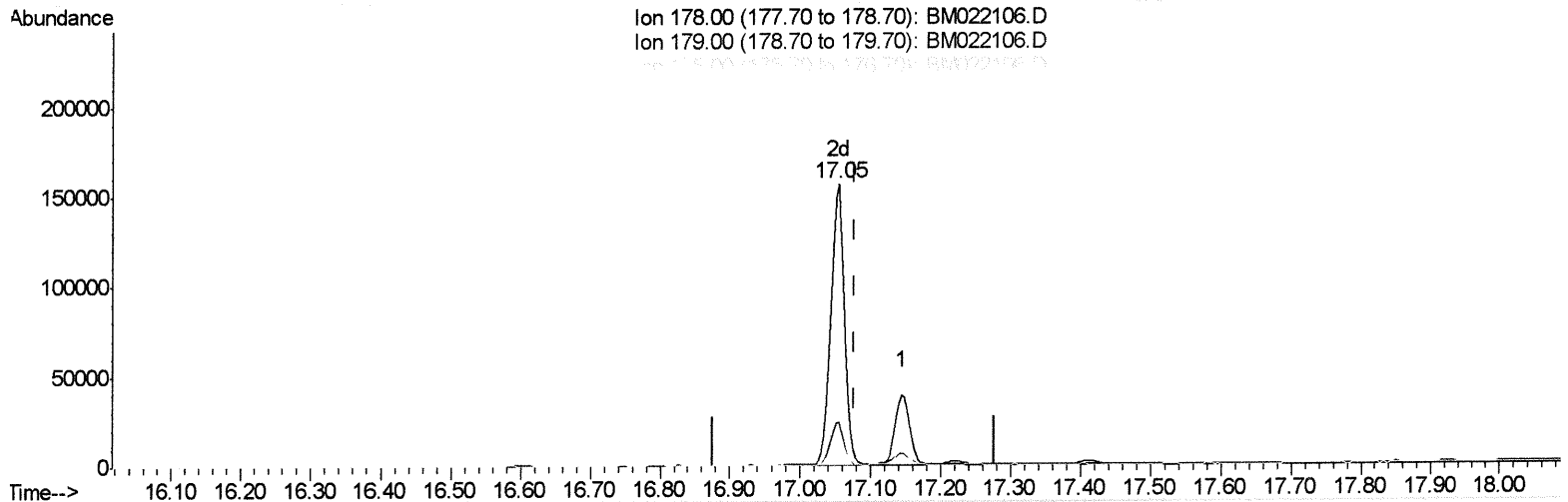
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
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Manual Integrations
 APPROVED

mohammad
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Quant Time: Aug 14 16:44:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 14 13:53:23 2019
 Response via : Initial Calibration



(12) Phenanthrene

17.053min (-0.024) 15.54ng/ul m

JU
 08/15/19

response 214518

Ion	Exp%	Act%
178.00	100	100
179.00	17.70	15.59
176.00	21.00	19.67
0.00	0.00	0.00

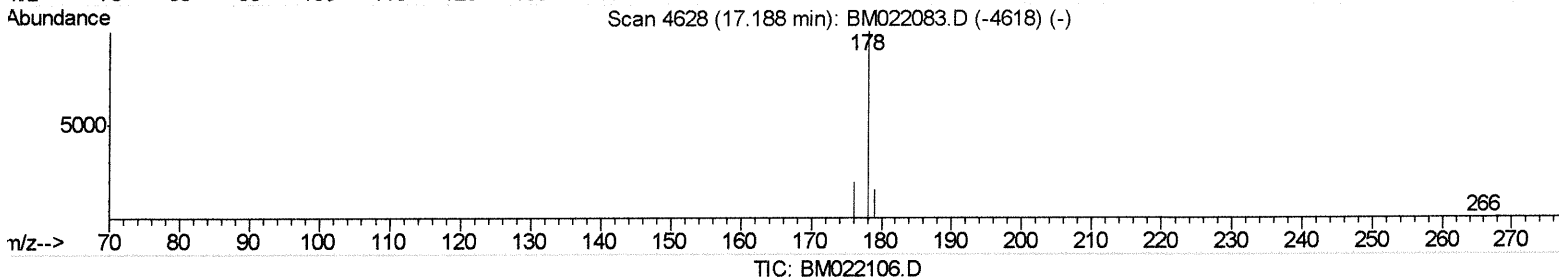
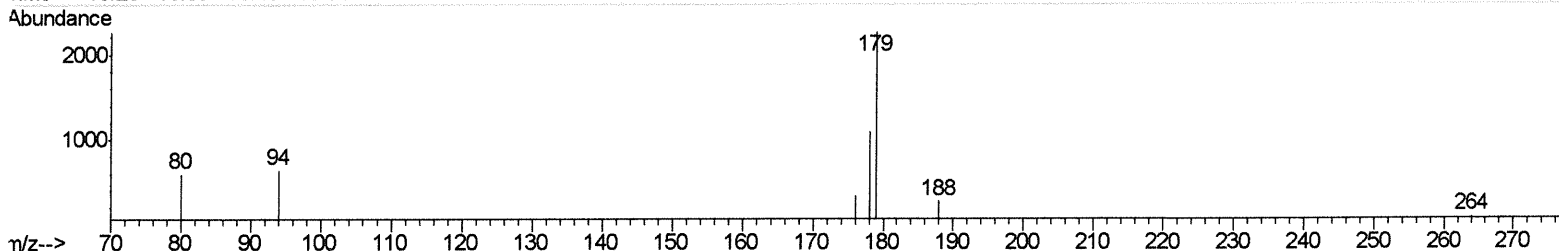
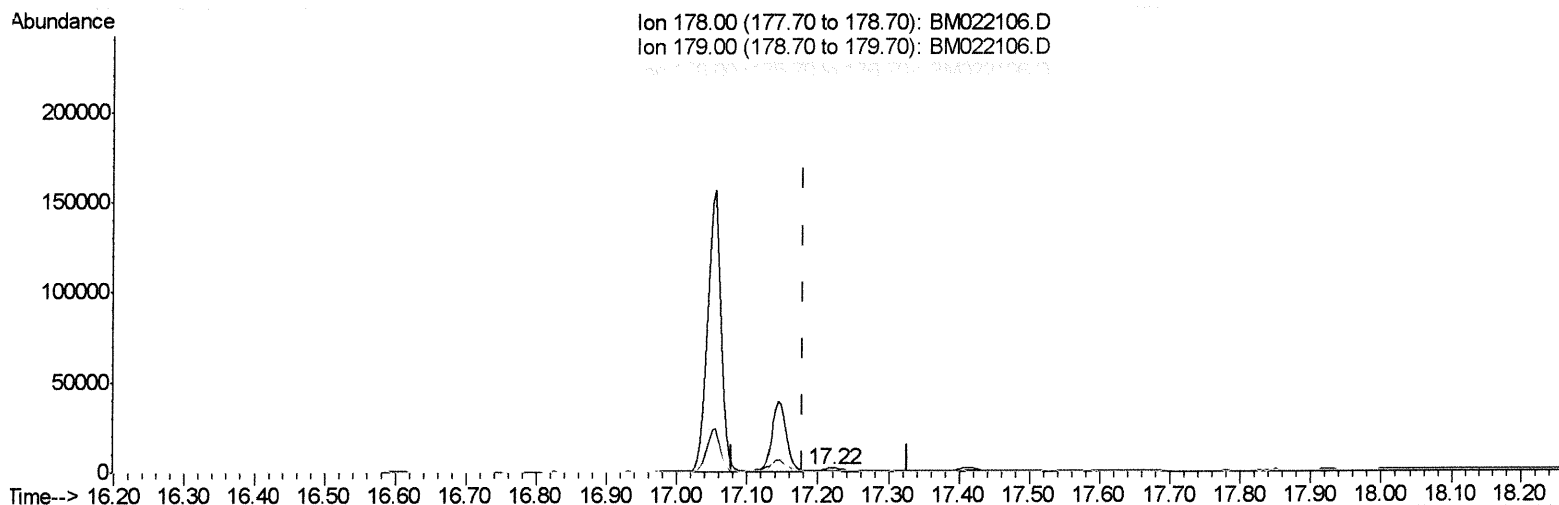
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG1

Manual Integrations
 APPROVED

mohammad
 8/15/2019 5:09:03 PM

Quant Time: Aug 14 16:44:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 14 13:53:23 2019
 Response via : Initial Calibration



(13) Anthracene

17.220min (+0.042) 0.09ng/ul

response 1002

Ion	Exp%	Act%
178.00	100	100
179.00	19.40	206.76#
176.00	20.80	30.41#
0.00	0.00	0.00

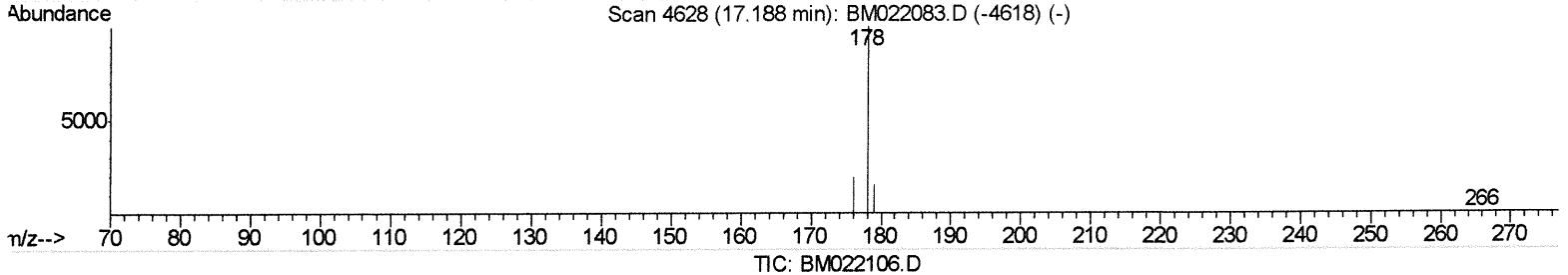
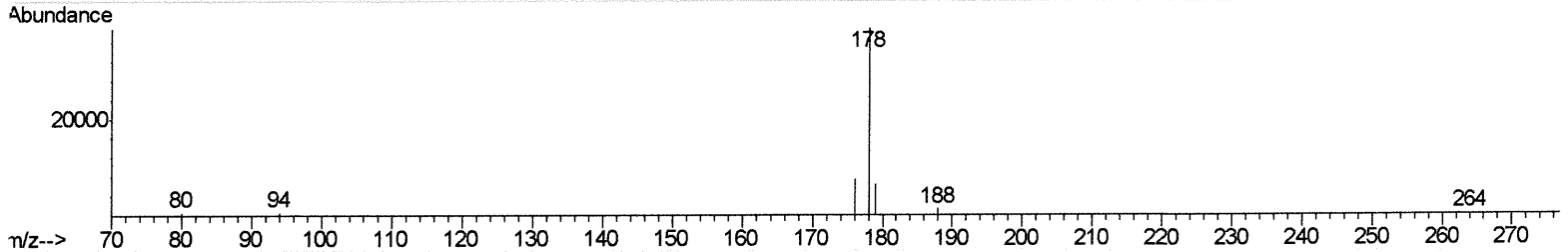
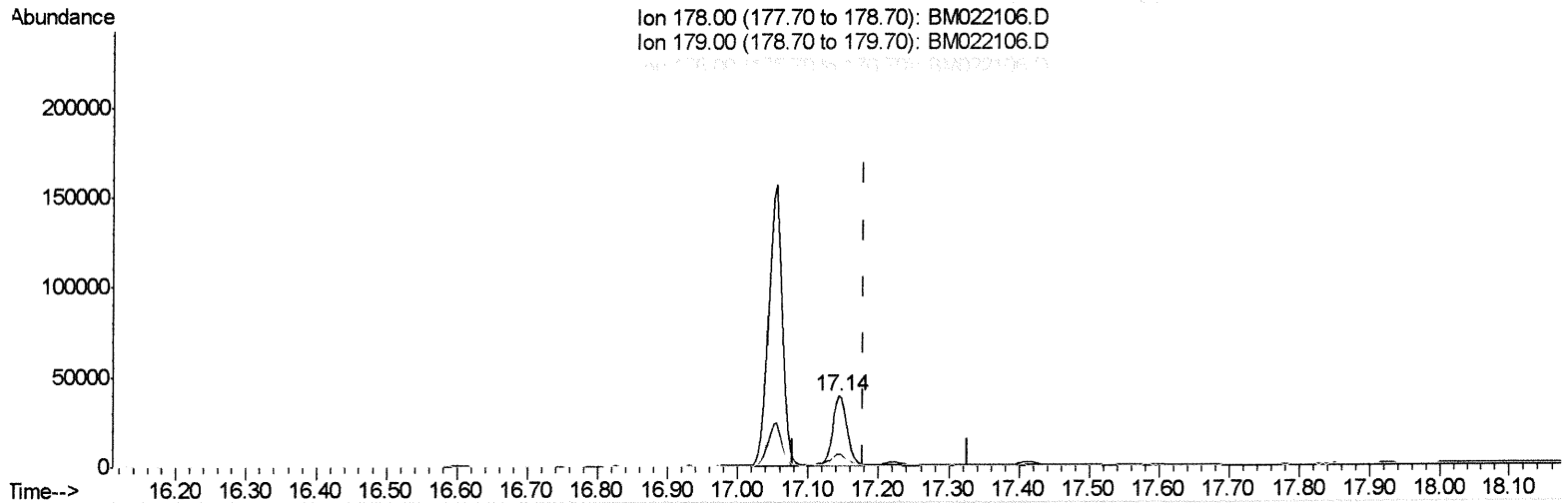
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG1

Manual Integrations
 APPROVED

mohammad
 8/15/2019 5:09:03 PM

Quant Time: Aug 14 16:44:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 14 13:53:23 2019
 Response via : Initial Calibration



(13) Anthracene

17.143min (-0.035) 4.81ng/ul m

JU
 08/15/19

response 56633

Ion	Exp%	Act%
178.00	100	100
179.00	19.40	16.84
176.00	20.80	19.50
0.00	0.00	0.00

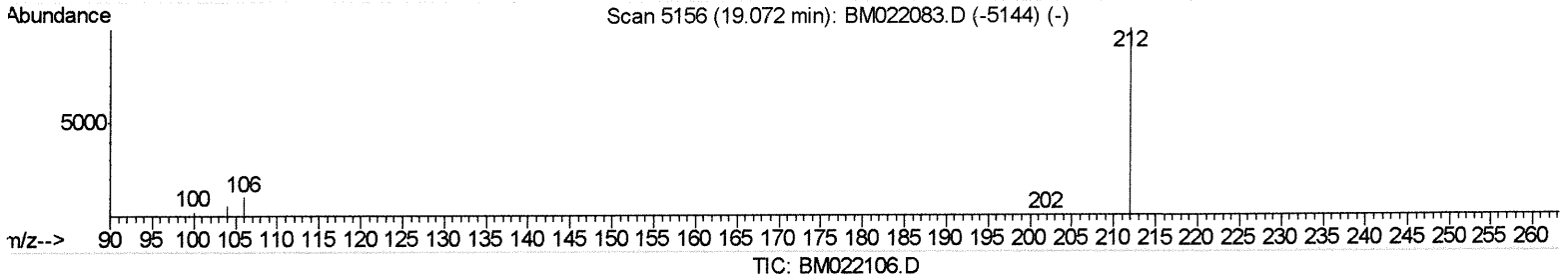
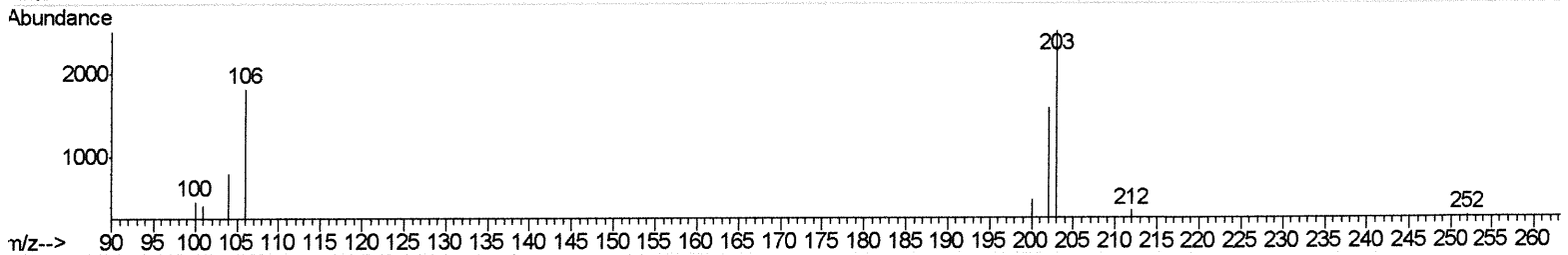
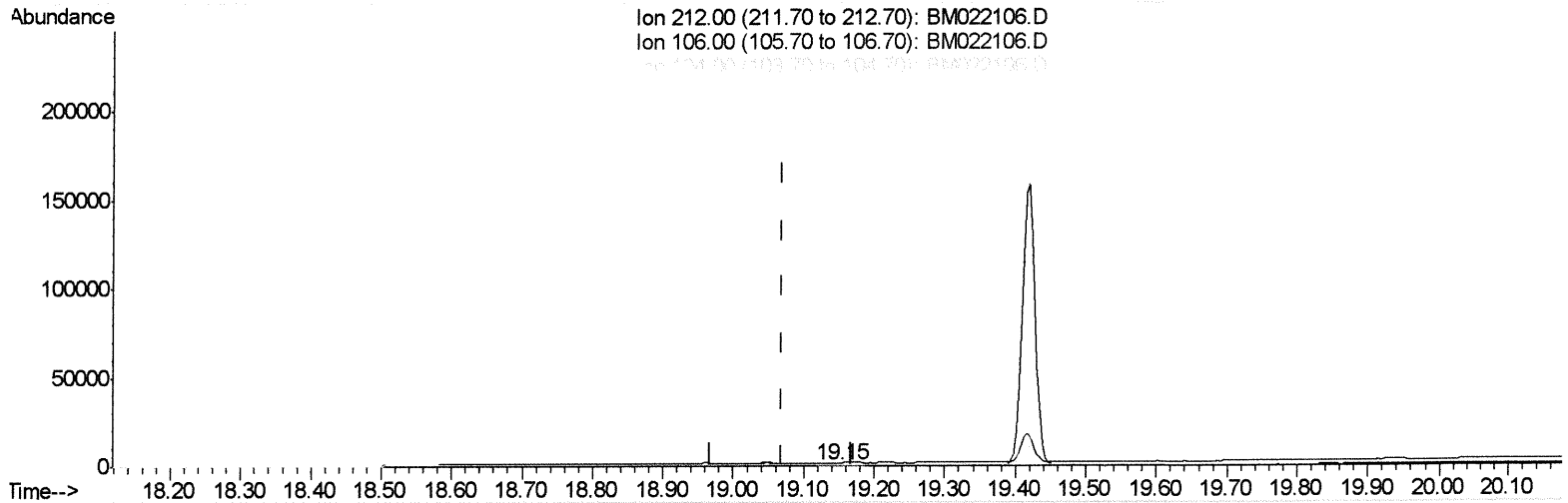
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG1

Manual Integrations
 APPROVED

mohammad
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 QLast Update : Wed Aug 14 13:53:23 2019
 Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.152min (+0.084) 0.01ng/ul

response 109

Ion	Exp%	Act%
212.00	100	100
106.00	9.90	484.40#
104.00	6.00	242.20#
0.00	0.00	0.00

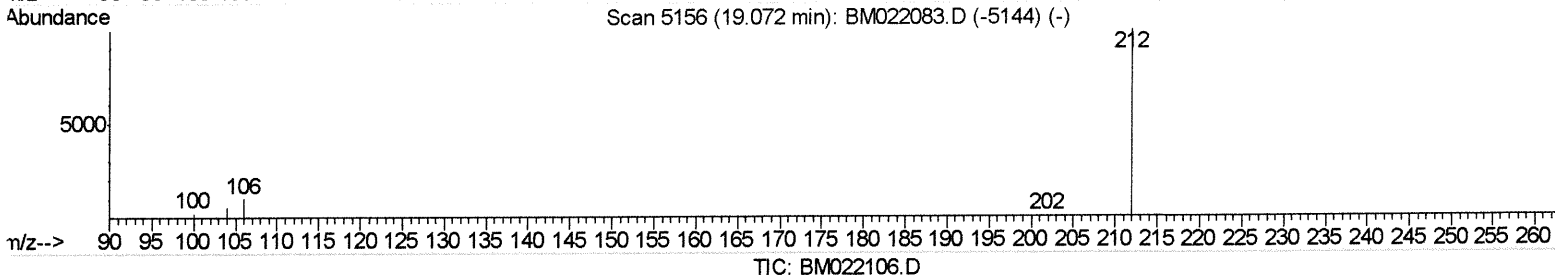
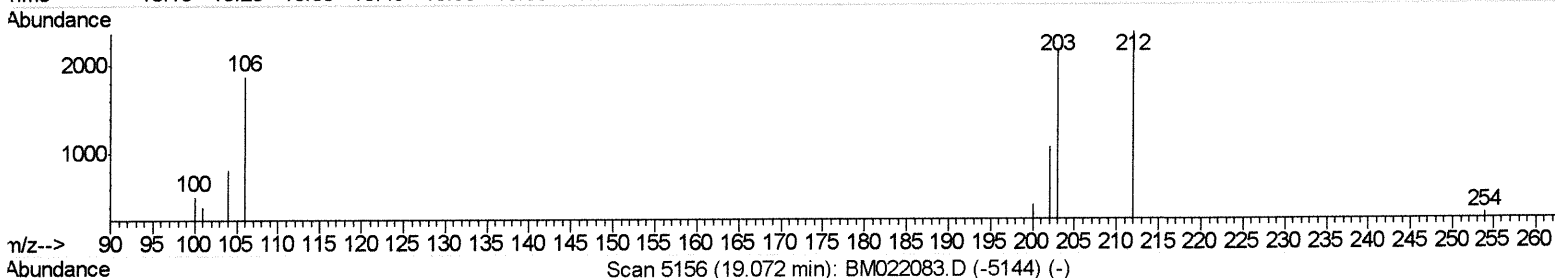
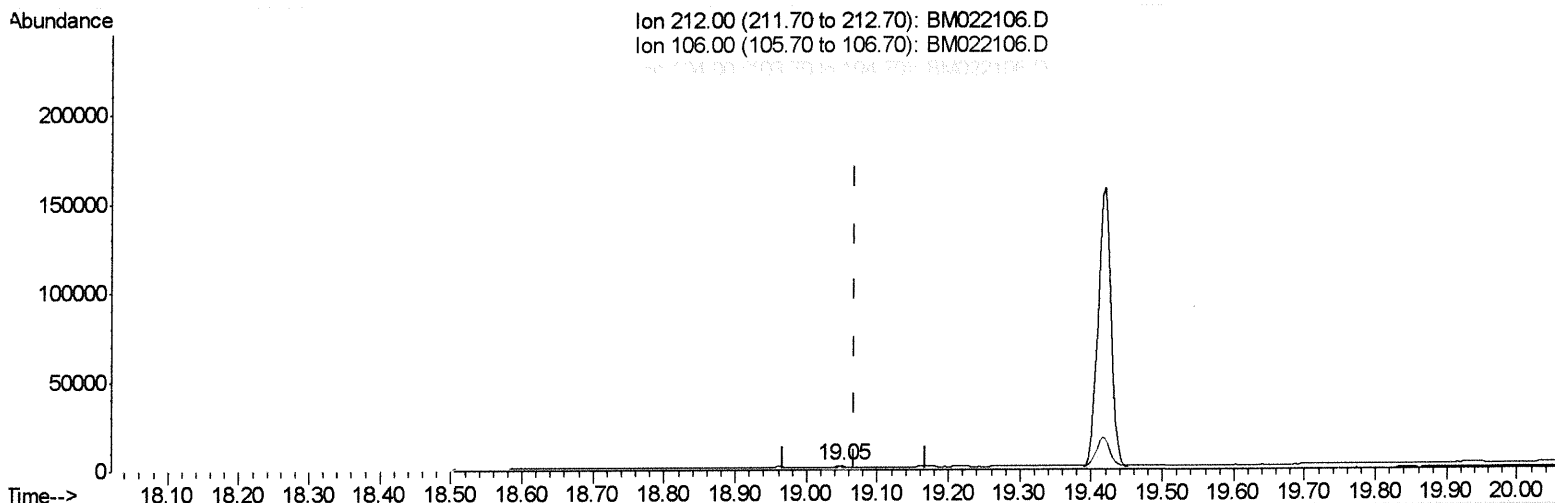
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022106.D
Acq On : 14 Aug 2019 13:55
Operator : HP/JU
Sample : K4183-15
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AG1

Manual Integrations
APPROVED

mohammad
8/15/2019 5:09:03 PM

Quant Time: Aug 14 16:44:16 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration



(14) Fluoranthene-d10 (SURR)

19.049min (-0.019) 0.17ng/ul m

JU
08/15/19

response 2745

Ion	Exp%	Act%
212.00	100	100
106.00	9.90	19.23#
104.00	6.00	9.62#
0.00	0.00	0.00

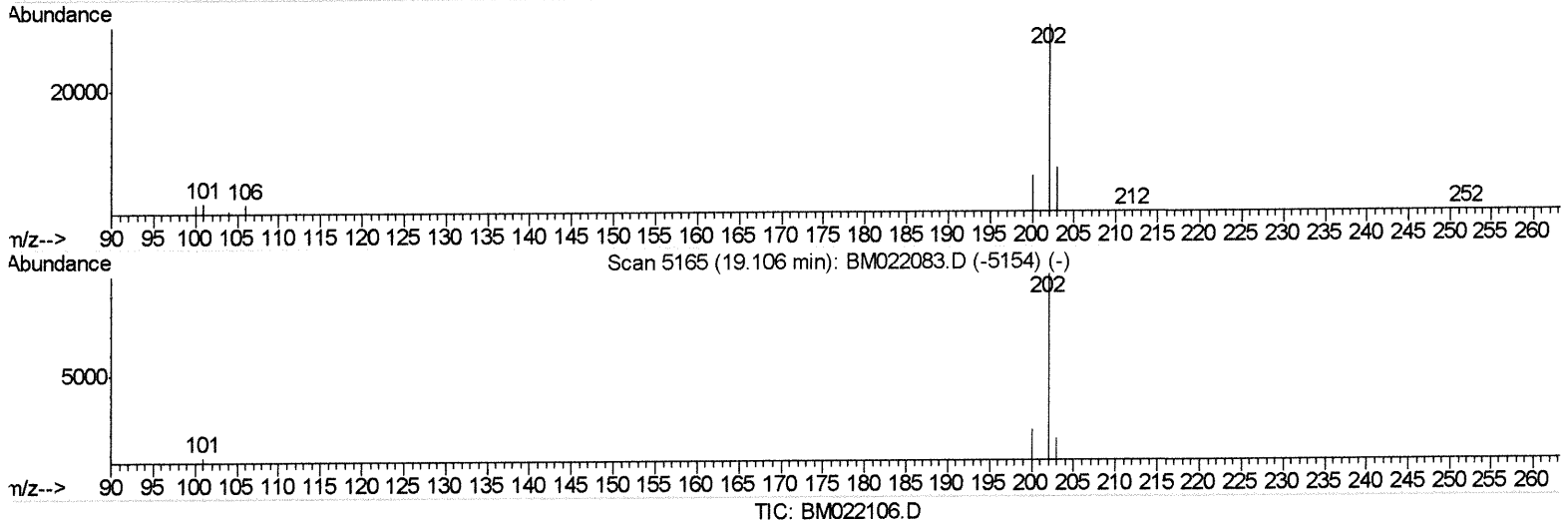
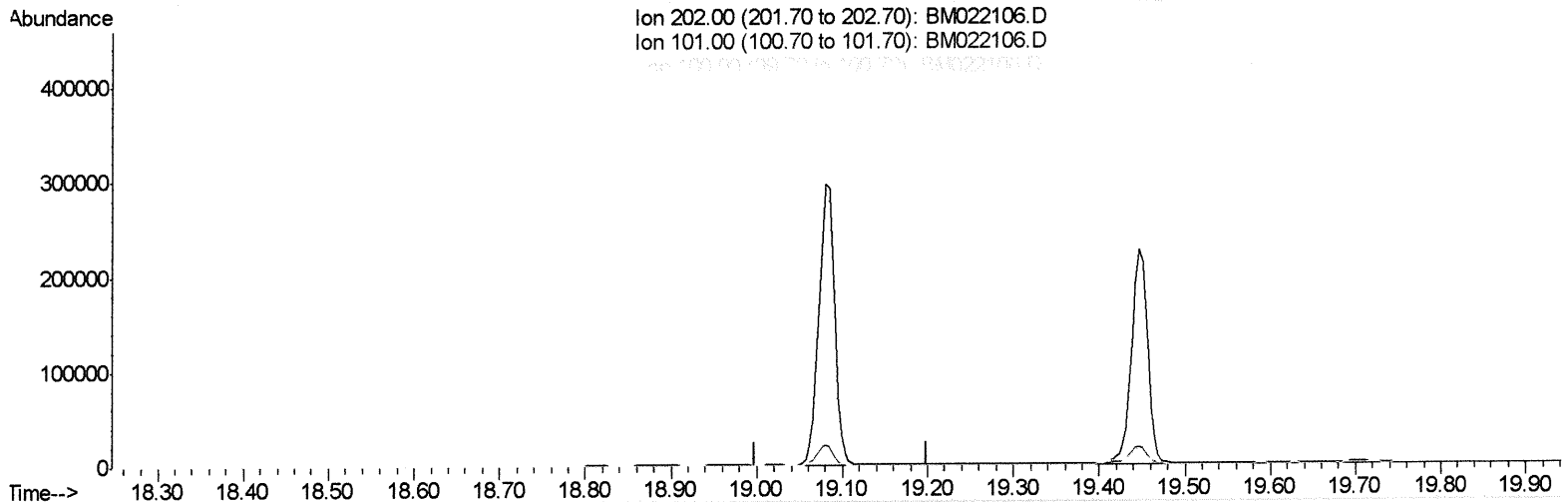
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG1

Manual Integrations
 APPROVED

mohammad
 8/15/2019 5:09:03 PM

Quant Time: Aug 14 16:44:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 14 13:53:23 2019
 Response via : Initial Calibration



(15) Fluoranthene (C)

19.098min (-19.098) 0.00ng/ul

response 0

Ion	Exp%	Act%
202.00	100	0.00
101.00	10.20	0.00
100.00	8.10	0.00
0.00	0.00	0.00

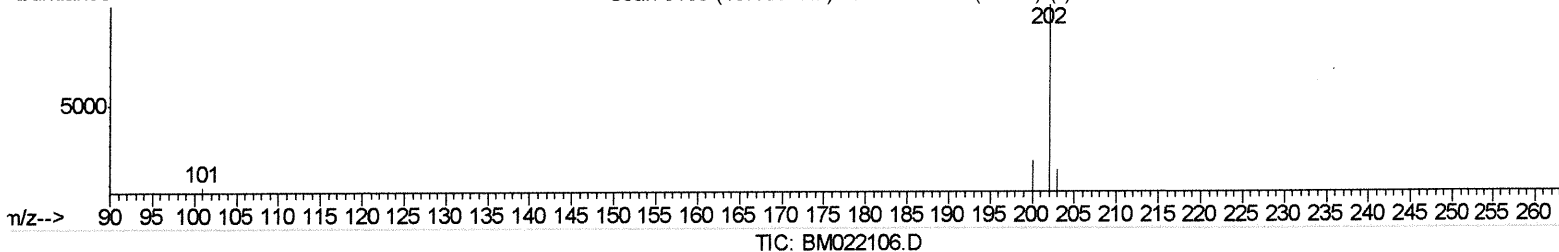
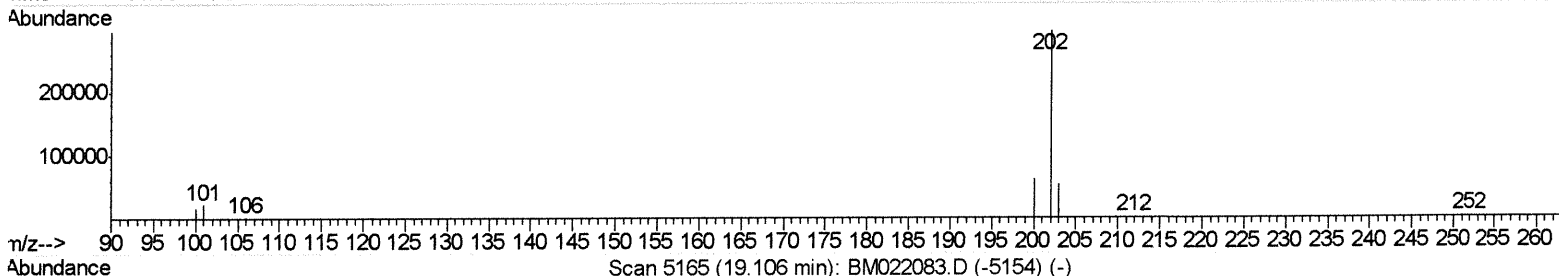
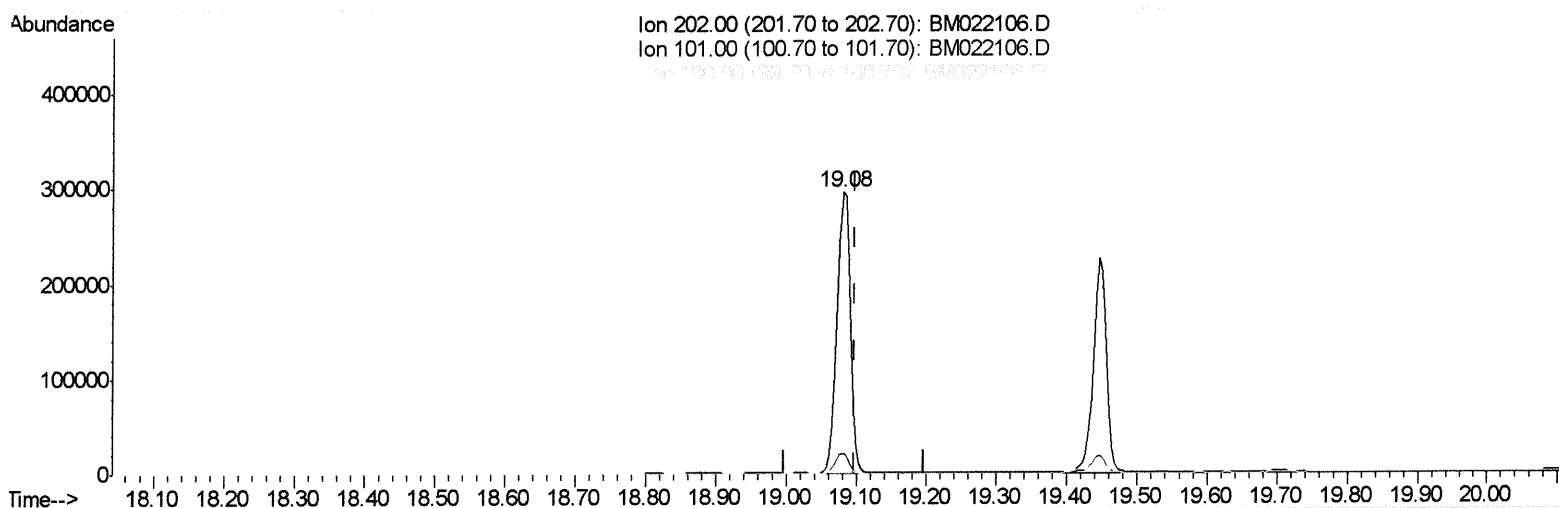
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG1

Manual Integrations
 APPROVED

mohammad
 8/15/2019 5:09:03 PM

Quant Time: Aug 14 16:44:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 14 13:53:23 2019
 Response via : Initial Calibration



(15) Fluoranthene (C)

19.080min (-0.019) 20.75ng/ul m *JU 8/15/19*

response 383824

Ion	Exp%	Act%
202.00	100	100
101.00	10.20	7.47
100.00	8.10	5.90
0.00	0.00	0.00

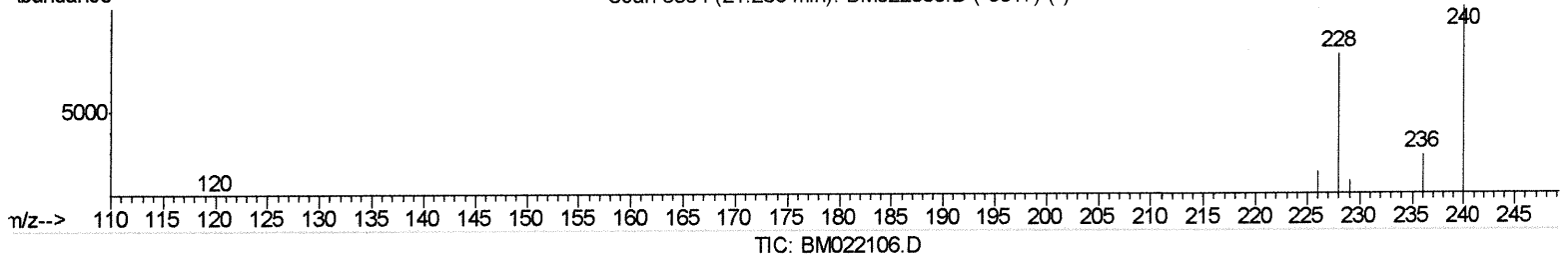
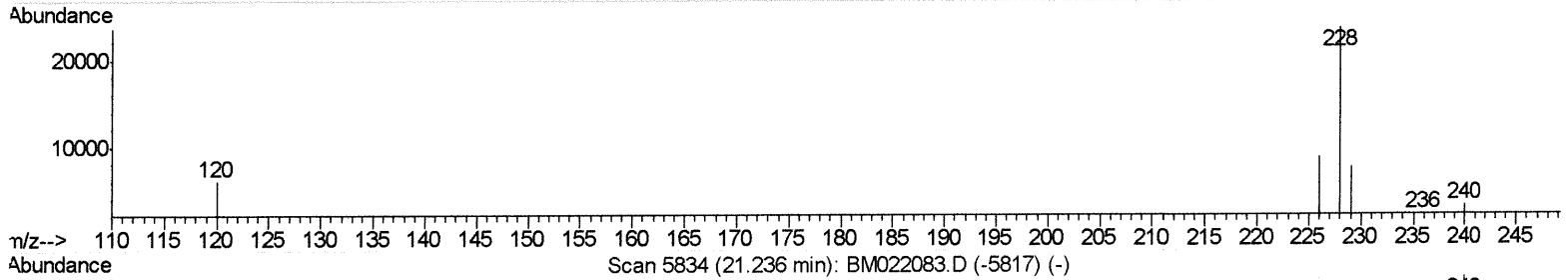
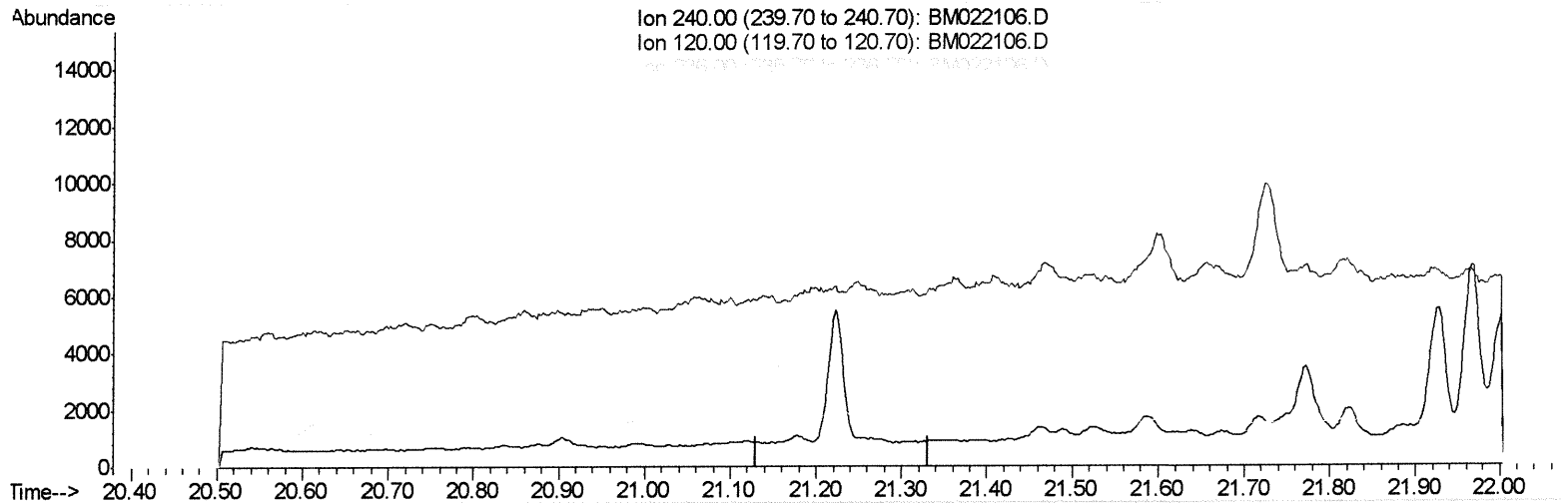
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampled :
 C0AG1

Manual Integrations
 APPROVED

mohammad
 8/15/2019 5:09:03 PM

Quant Time: Aug 14 16:44:16 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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 Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.231min (-21.231) 0.00ng/ul

response 0

Ion	Exp%	Act%
240.00	100	0.00
120.00	16.20	0.00#
236.00	32.30	0.00#
0.00	0.00	0.00

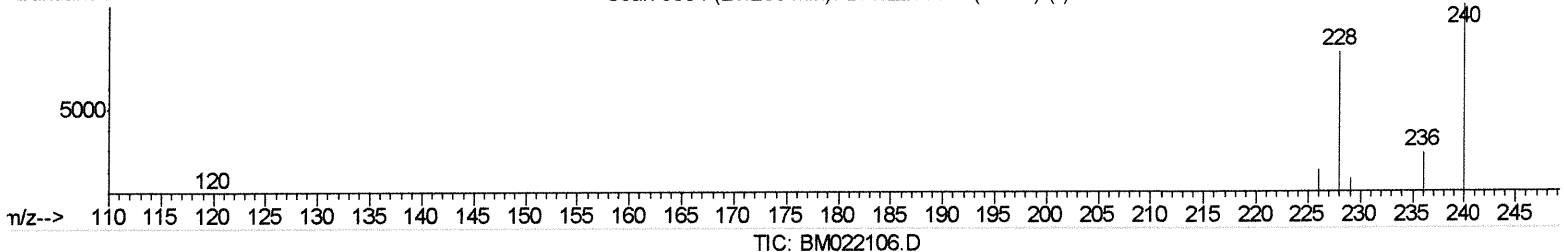
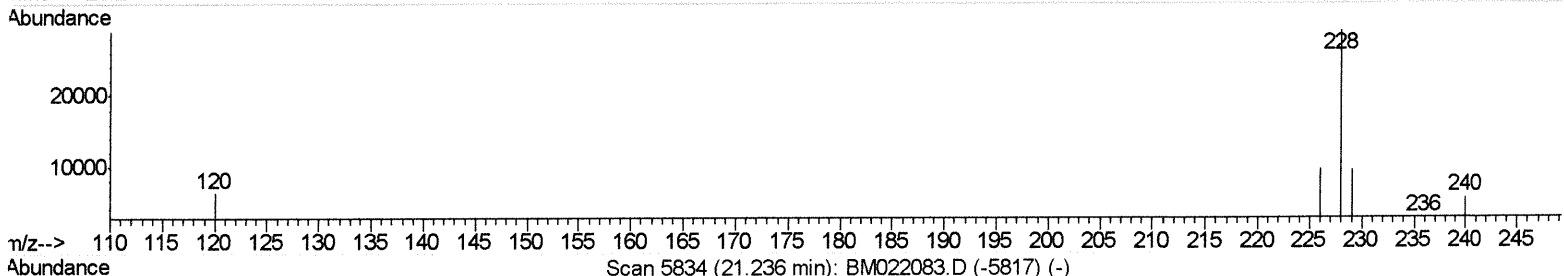
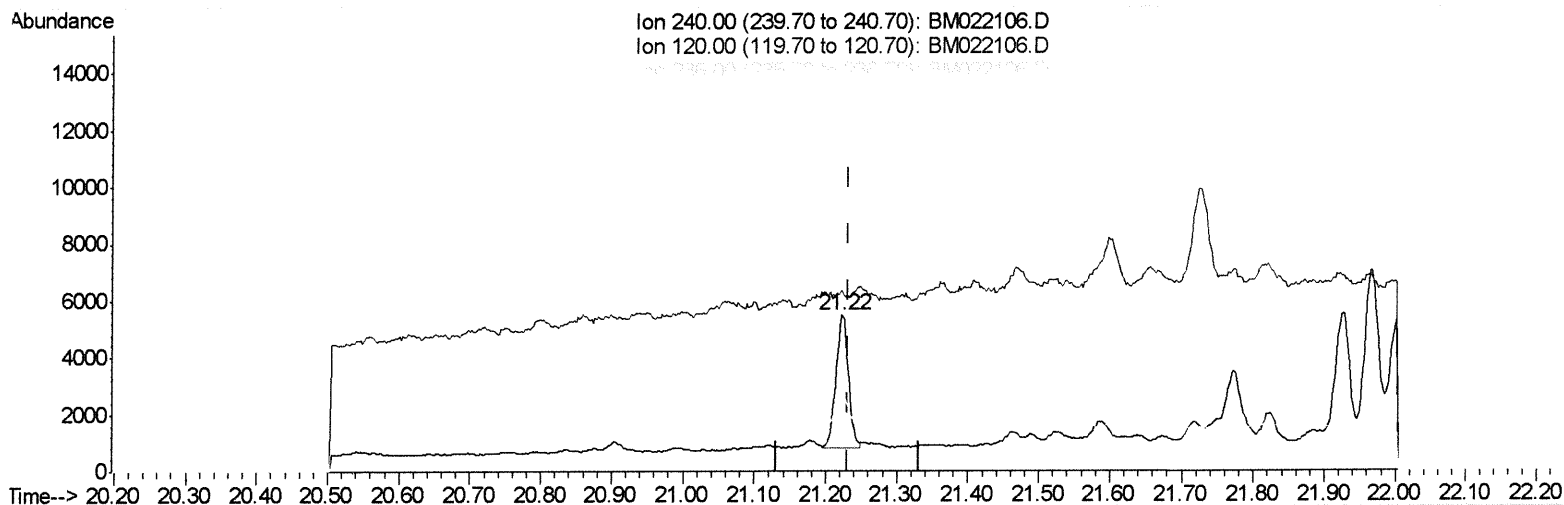
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
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Manual Integrations
 APPROVED

mohammad
 8/15/2019 5:09:03 PM

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 Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.222min (-0.010) 0.40ng/ul m *JU 08/15/19*

response 5682

Ion	Exp%	Act%
240.00	100	100
120.00	16.20	115.87#
236.00	32.30	50.80#
0.00	0.00	0.00

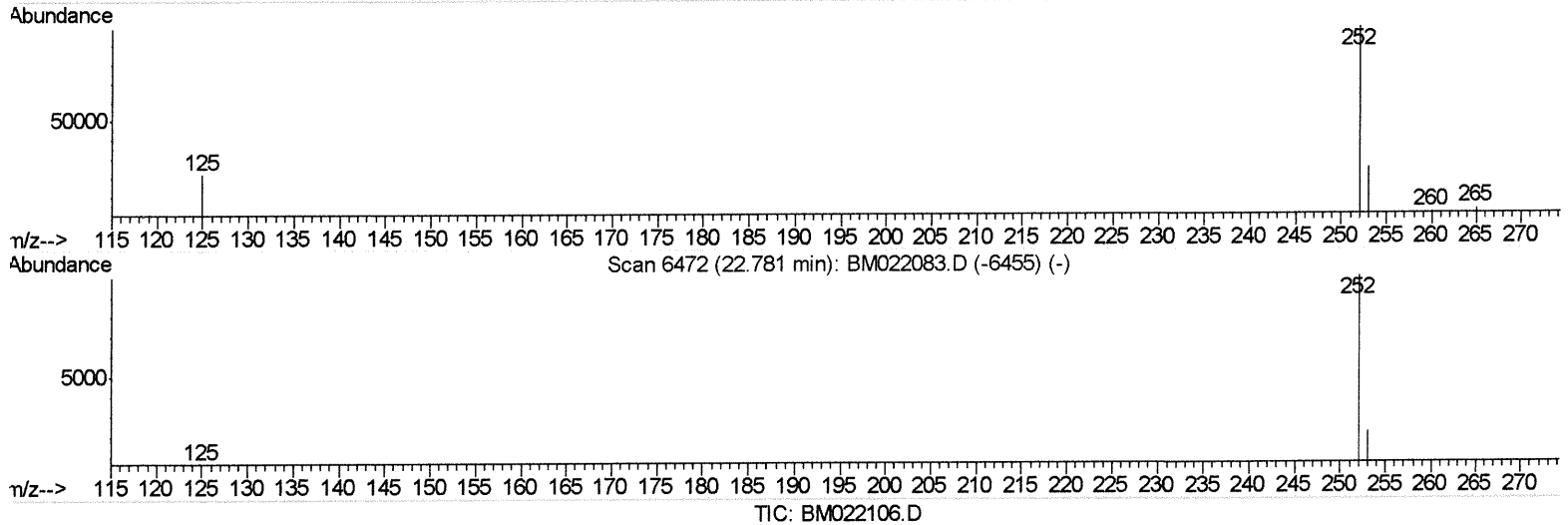
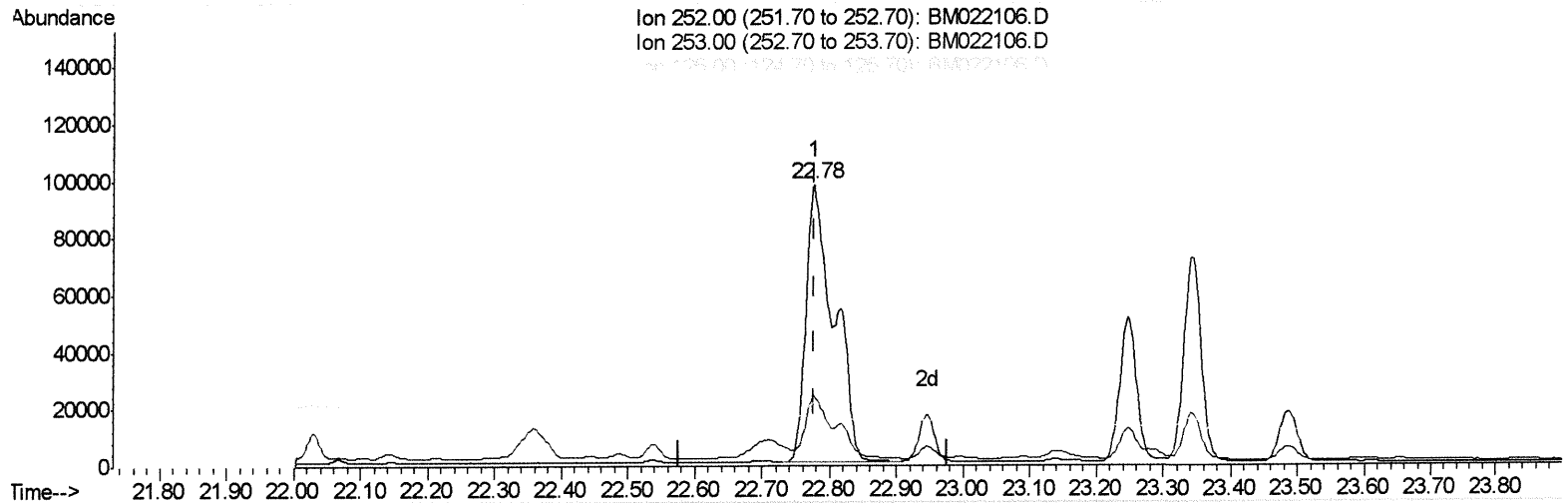
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
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 ClientSampleId :
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Manual Integrations
 APPROVED

mohammad
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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 Response via : Initial Calibration



(21) Benzo(b)fluoranthene
 22.776min (+0.000) 14.93ng/ul
 response 281195

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	25.20
125.00	15.50	22.24
0.00	0.00	0.00

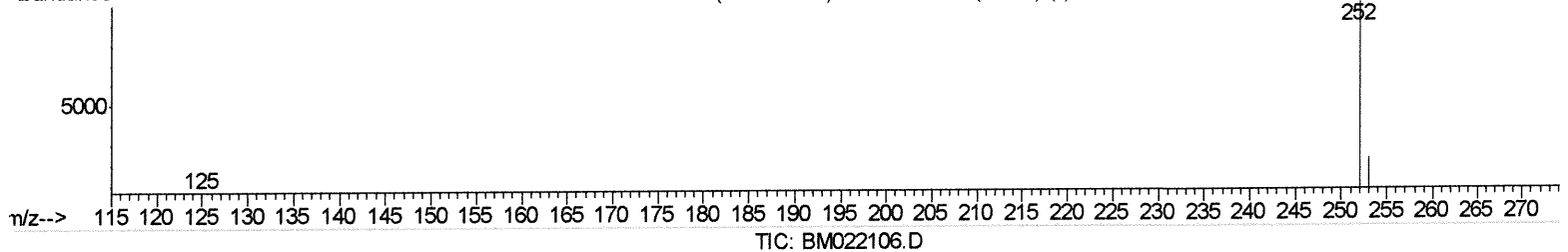
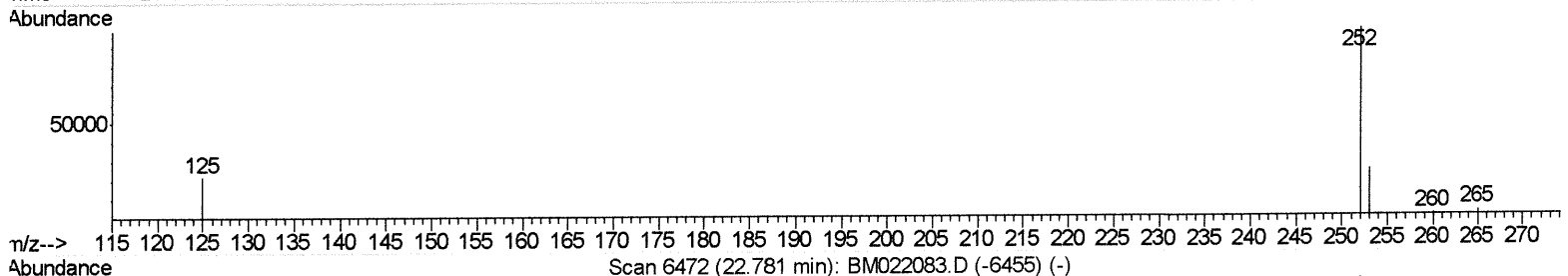
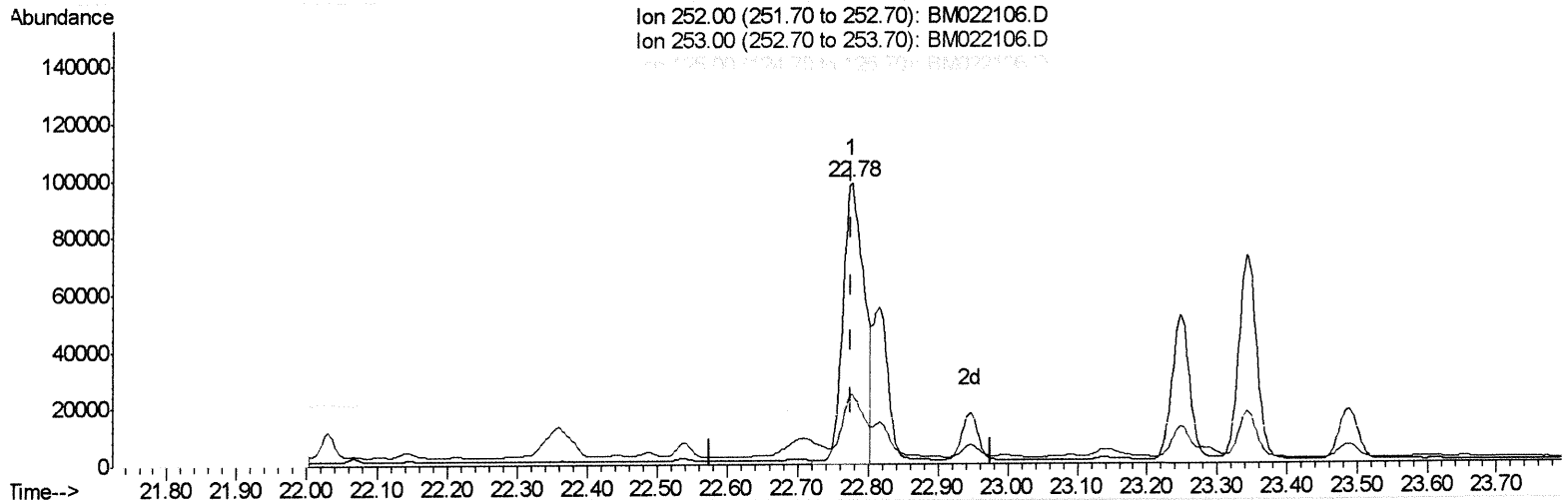
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG1

Manual Integrations
 APPROVED

mohammad
 8/15/2019 5:09:03 PM

Quant Time: Aug 14 16:46:00 2019
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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 Response via : Initial Calibration



(21) Benzo(b)fluoranthene

22.776min (+0.000) 10.98ng/ul m

JU
 8/15/19

response 206772

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	25.20
125.00	15.50	22.24
0.00	0.00	0.00

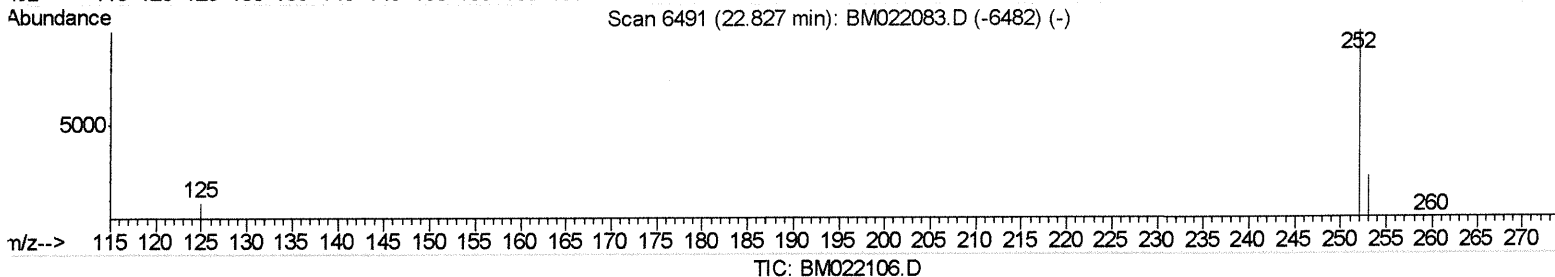
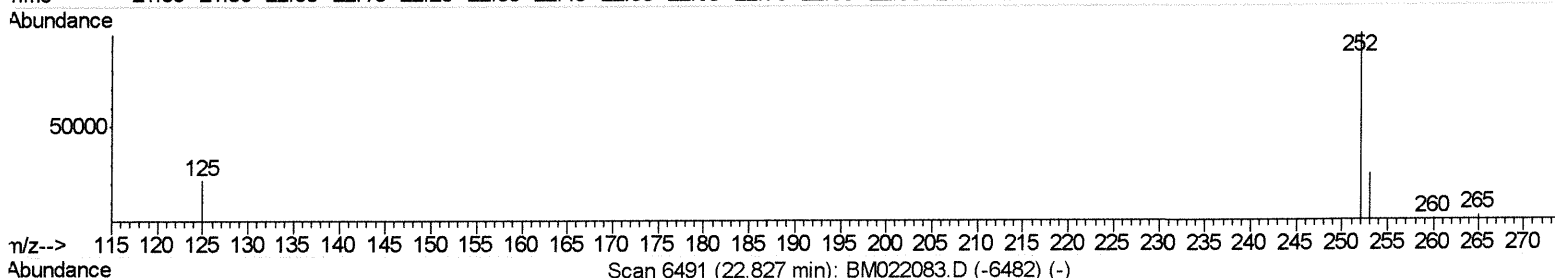
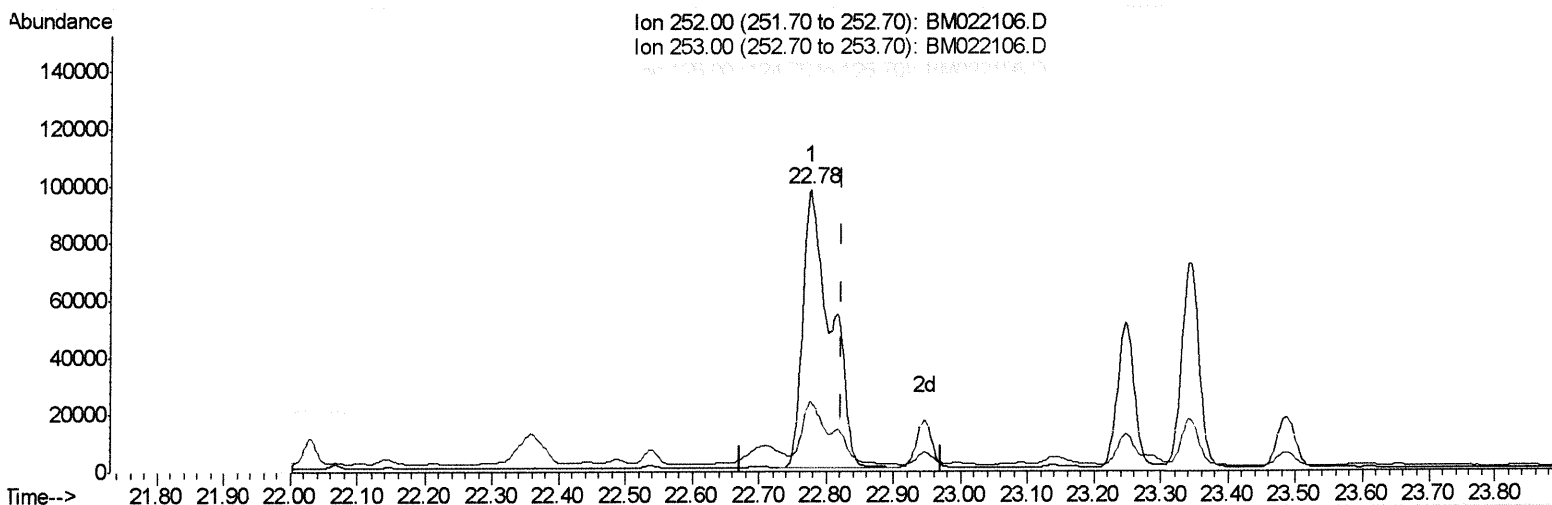
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG1

Manual Integrations
 APPROVED

mohammad
 8/15/2019 5:09:03 PM

Quant Time: Aug 14 16:46:00 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 14 13:53:23 2019
 Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.776min (-0.046) 13.19ng/ul

response 281195

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	25.20#
125.00	15.20	22.24#
0.00	0.00	0.00

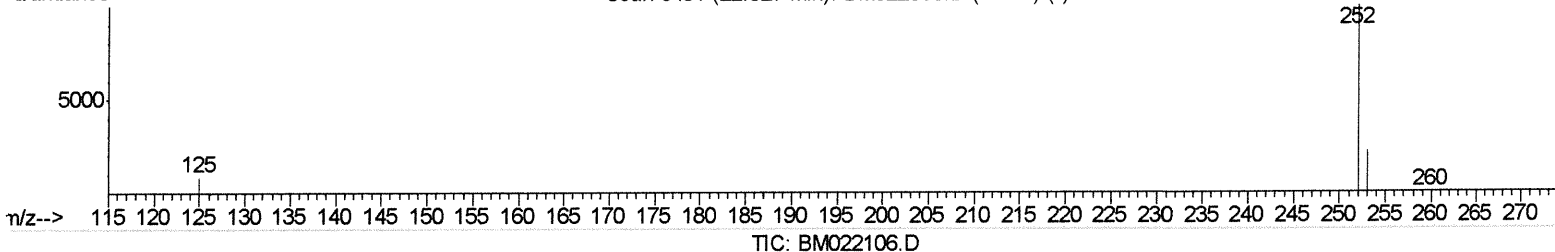
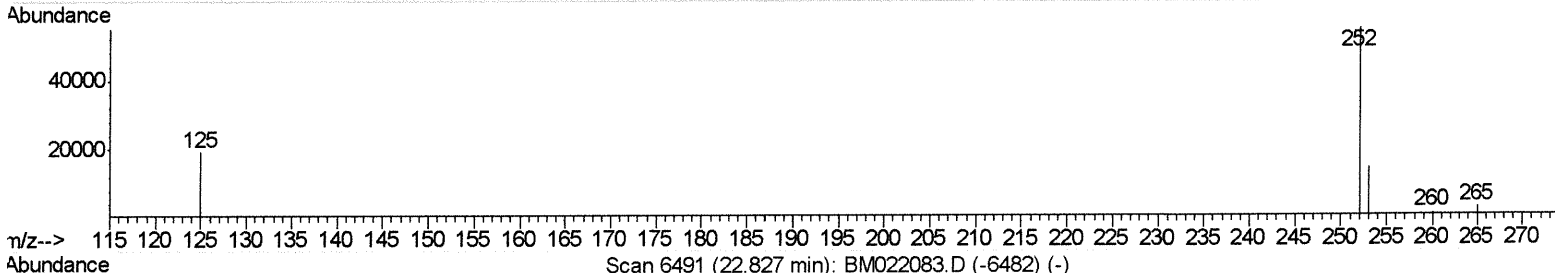
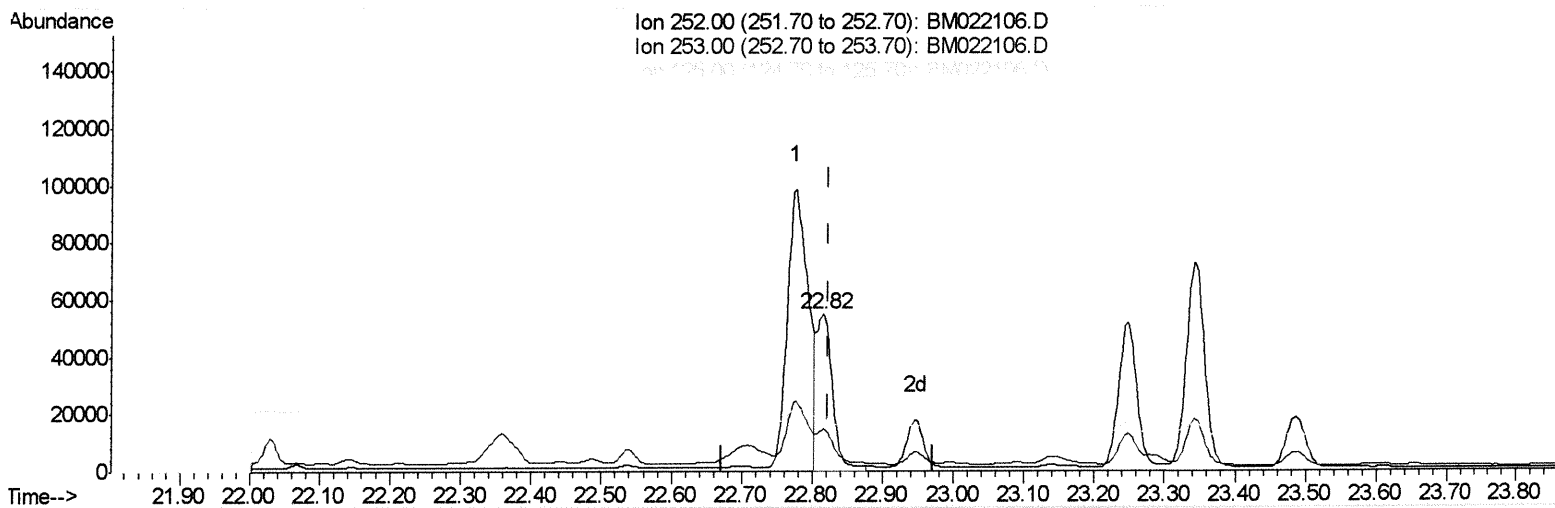
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
Data File : BM022106.D
Acq On : 14 Aug 2019 13:55
Operator : HP/JU
Sample : K4183-15
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AG1

Manual Integrations
APPROVED

mohammad
8/15/2019 5:09:03 PM

Quant Time: Aug 14 16:46:00 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 14 13:53:23 2019
Response via : Initial Calibration



(22) Benzo(k)fluoranthene

22.815min (-0.007) 4.06ng/ul m *JU 08/15/19*

response 86548

Ion	Exp%	Act%
252.00	100	100
253.00	33.70	26.56#
125.00	15.20	34.85#
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM081219\
 Data File : BM022106.D
 Acq On : 14 Aug 2019 13:55
 Operator : HP/JU
 Sample : K4183-15
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AG1

Manual Integrations
 APPROVED

mohammad
 8/15/2019 5:09:03 PM

Quant Time: Aug 14 16:46:55 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-SIM-BM080319.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 14 13:53:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.60	152	1070	0.40	ng/ul	-0.01
2) Naphthalene-d8	10.38	136	4233	0.40	ng/ul	-0.03
6) Acenaphthene-d10	14.25	164	2136	0.40	ng/ul	-0.02
10) Phenanthrene-d10	17.01	188	4745m→	0.40	ng/ul	-0.03
16) Chrysene-d12	21.22	240	5682m→	0.40	ng/ul	0.00
20) Perylene-d12	23.44	264	5586	0.40	ng/ul	0.00

System Monitoring Compounds						
4) 2-Methylnaphthalene-d10	11.98	152	1230	0.18	ng/ul	-0.03
14) Fluoranthene-d10	19.05	212	2745m	0.17	ng/ul	-0.02

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Naphthalene	10.43	128	1097	0.092	ng/ul#	92
5) 2-Methylnaphthalene	12.05	142	1195	0.150	ng/ul	94
7) Acenaphthylene	13.97	152	1673	0.168	ng/ul#	74
8) Acenaphthene	14.31	153	8957	1.099	ng/ul	96
9) Fluorene	15.31	166	10837	1.197	ng/ul	99
12) Phenanthrene	17.05	178	214518m→	15.538	ng/ul	97
13) Anthracene	17.14	178	56633m→	4.809	ng/ul	97
15) Fluoranthene	19.08	202	383824m→	20.753	ng/ul	97
17) Pyrene	19.45	202	297676	12.749	ng/ul	95
18) Benzo(a)anthracene	21.20	228	192719	9.482	ng/ul	99
19) Chrysene	21.26	228	172928	6.616	ng/ul	97
21) Benzo(b)fluoranthene	22.78	252	206772m→	10.977	ng/ul	97
22) Benzo(k)fluoranthene	22.82	252	86548m→	4.060	ng/ul	97
23) Benzo(a)pyrene	23.34	252	131014	6.839	ng/ul#	80
24) Indeno(1,2,3-cd)pyrene	25.65	276	77418	3.385	ng/ul#	91
25) Dibenzo(a,h)anthracene	25.65	278	20541	1.111	ng/ul#	72
26) Benzo(g,h,i)perylene	26.33	276	70248	3.411	ng/ul	98

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