

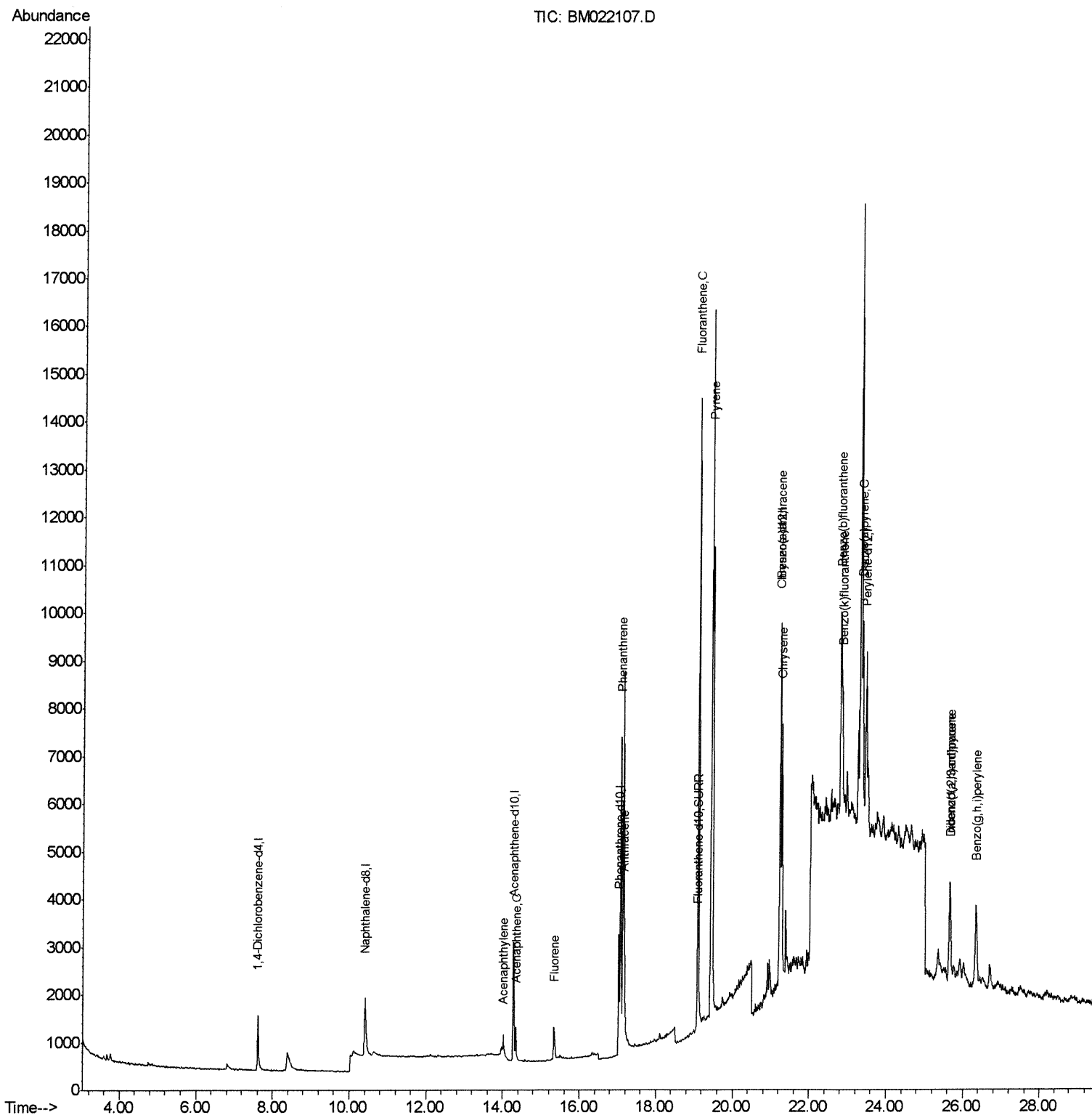
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 Client Sample ID :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 18:00:37 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



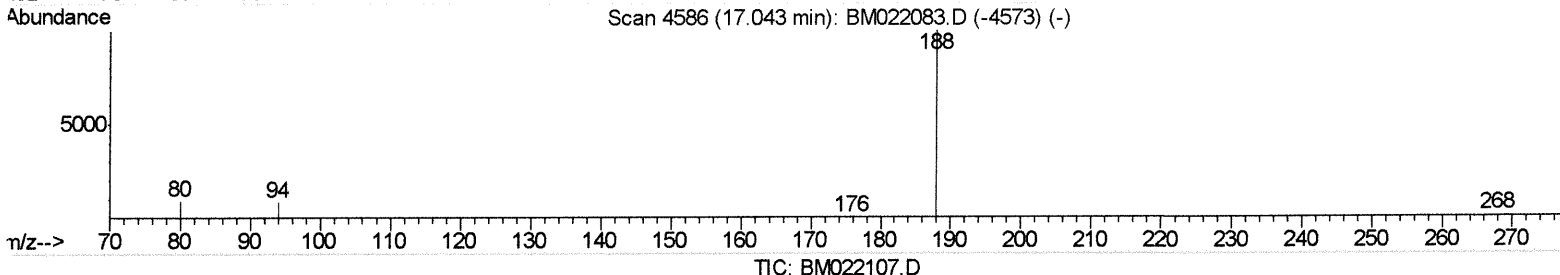
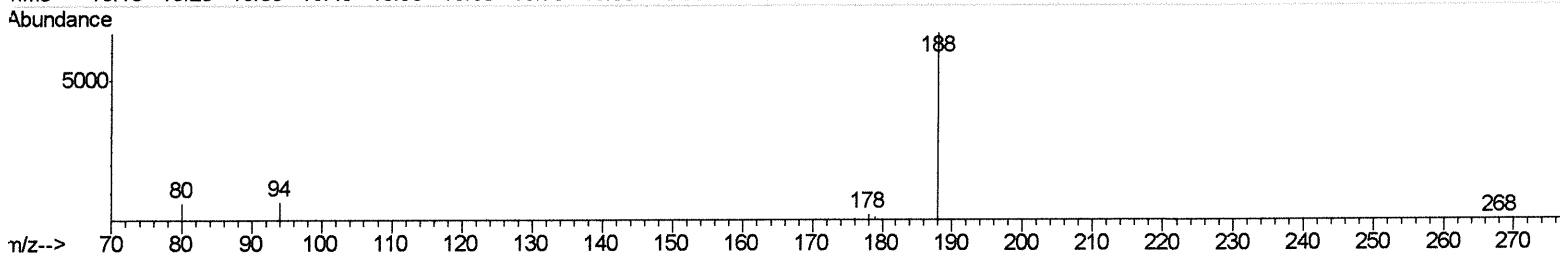
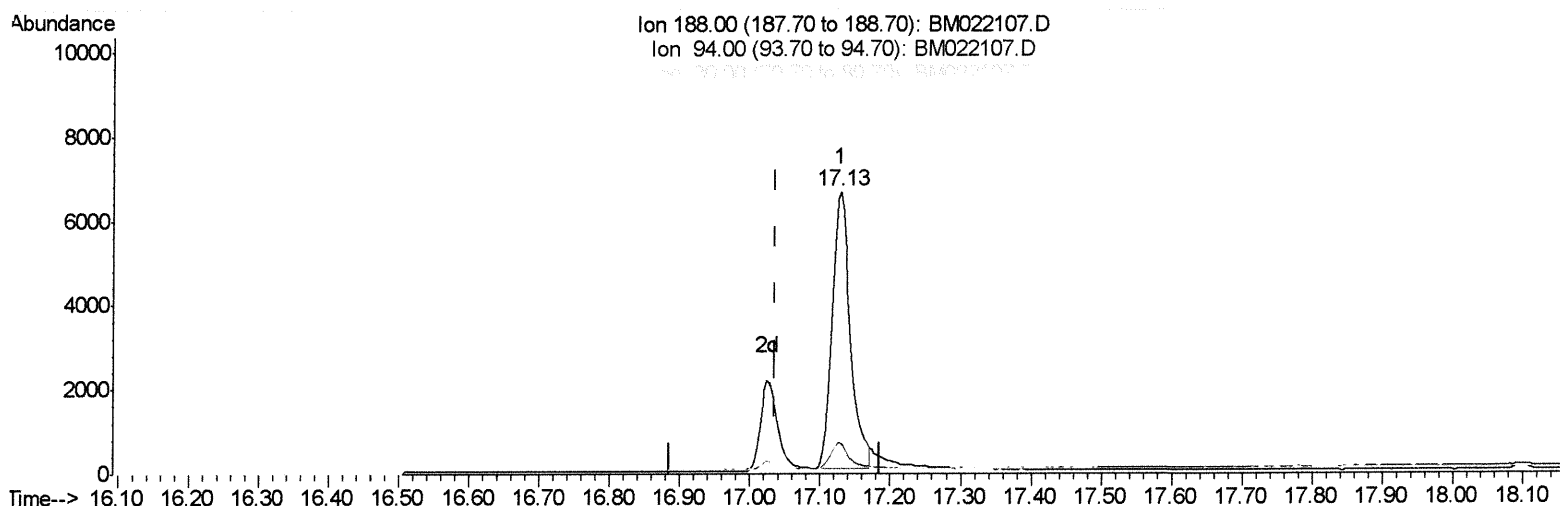
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
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Instrument :  
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 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:36:47 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)

17.128min (+0.092) 0.40ng/ul

response 11767

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 188.00 | 100   | 100   |
| 94.00  | 10.40 | 10.71 |
| 80.00  | 11.40 | 9.78  |
| 0.00   | 0.00  | 0.00  |

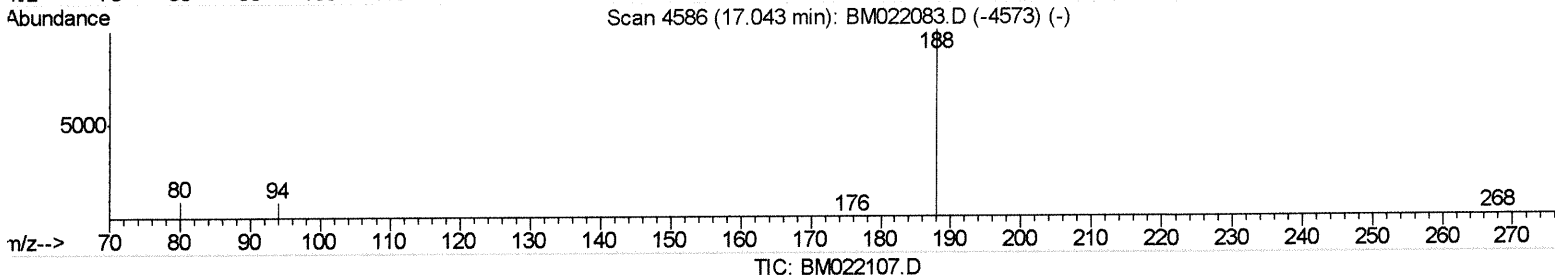
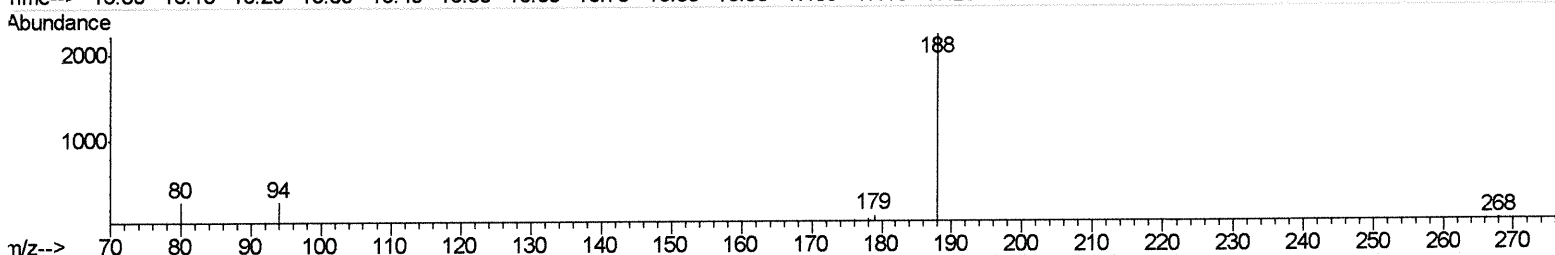
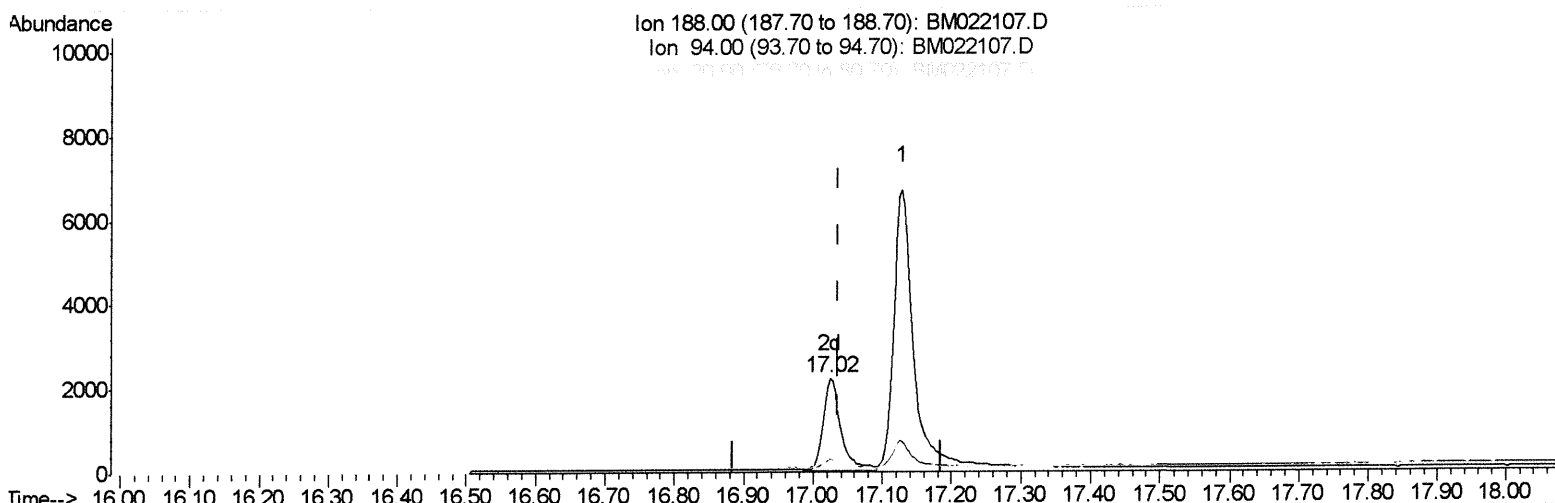
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:36:47 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



TIC: BM022107.D

(10) Phenanthrene-d10 (I)

17.024min (-0.012) 0.40ng/ul m *JU 08/15/19*

response 3836

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 188.00 | 100   | 100    |
| 94.00  | 10.40 | 13.07# |
| 80.00  | 11.40 | 13.02  |
| 0.00   | 0.00  | 0.00   |

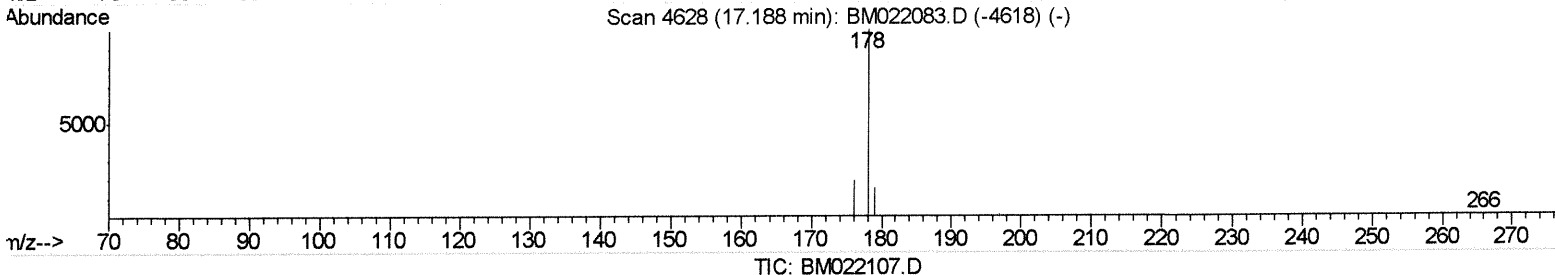
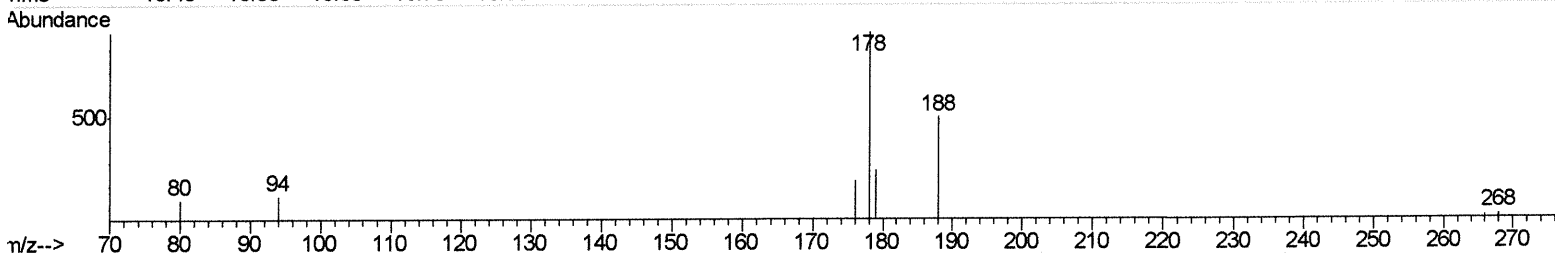
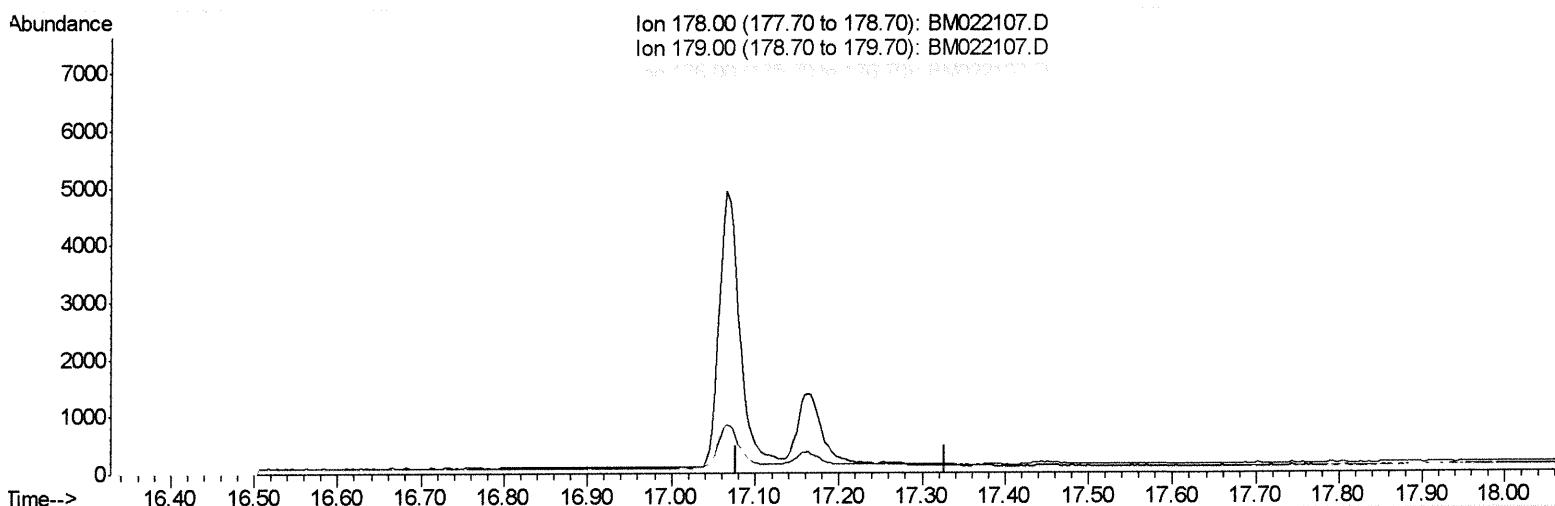
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:37:47 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

17.178min (-17.178) 0.00ng/ul

response 0

| Ion    | Exp%  | Act%  |
|--------|-------|-------|
| 178.00 | 100   | 0.00  |
| 179.00 | 19.40 | 0.00# |
| 176.00 | 20.80 | 0.00# |
| 0.00   | 0.00  | 0.00  |

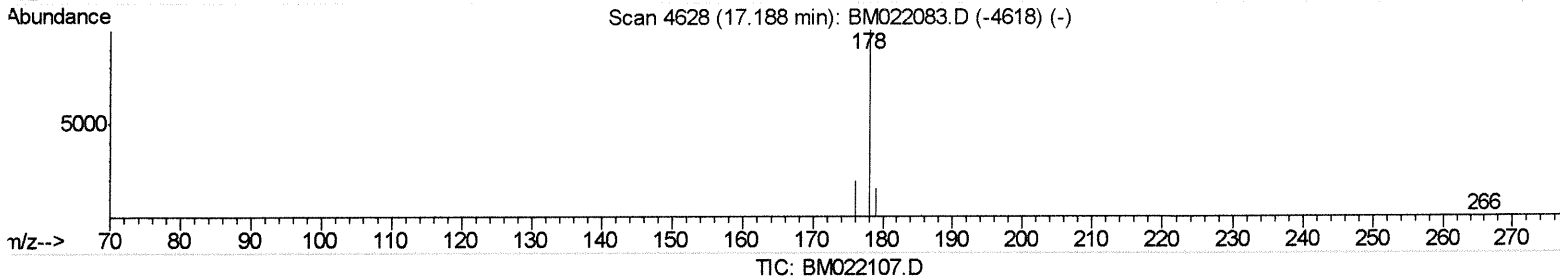
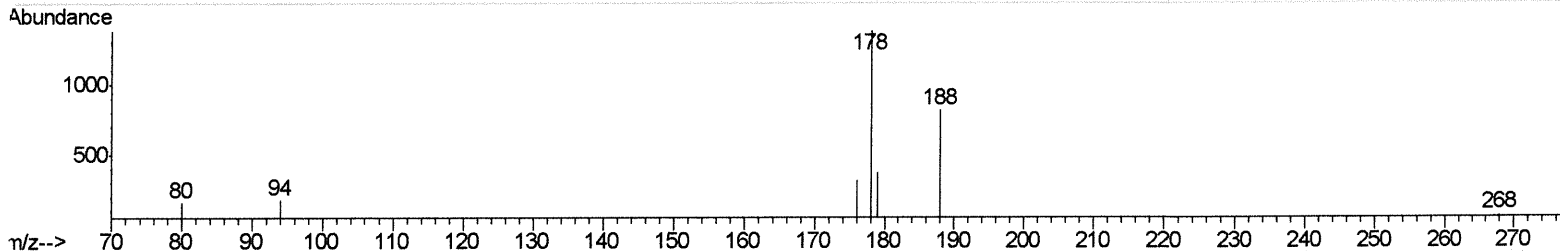
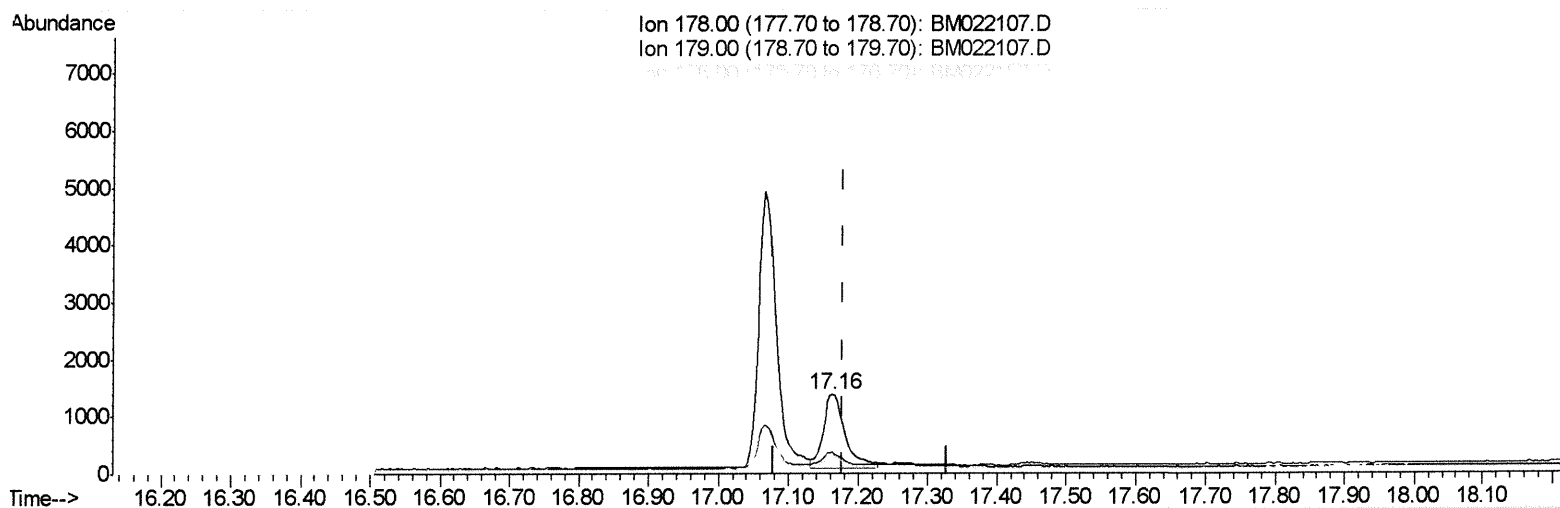
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:37:47 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

17.163min (-0.015) 0.30ng/ul m

JU  
 08/15/19

response 2825

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 178.00 | 100   | 100    |
| 179.00 | 19.40 | 27.20# |
| 176.00 | 20.80 | 23.45  |
| 0.00   | 0.00  | 0.00   |

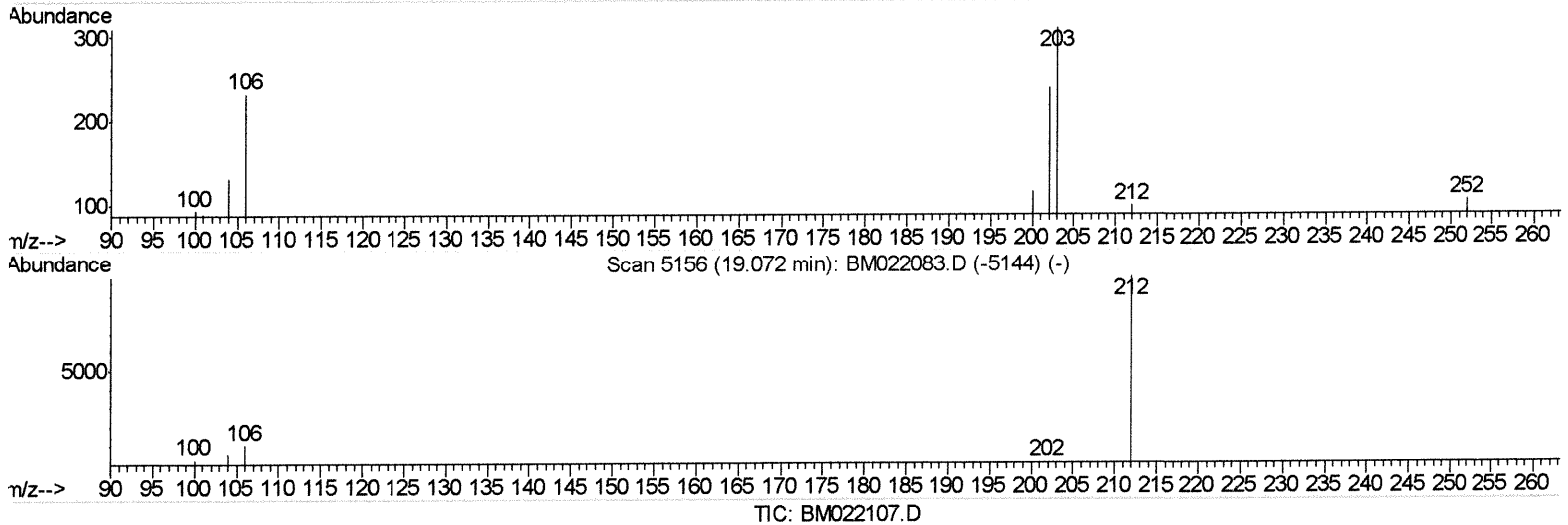
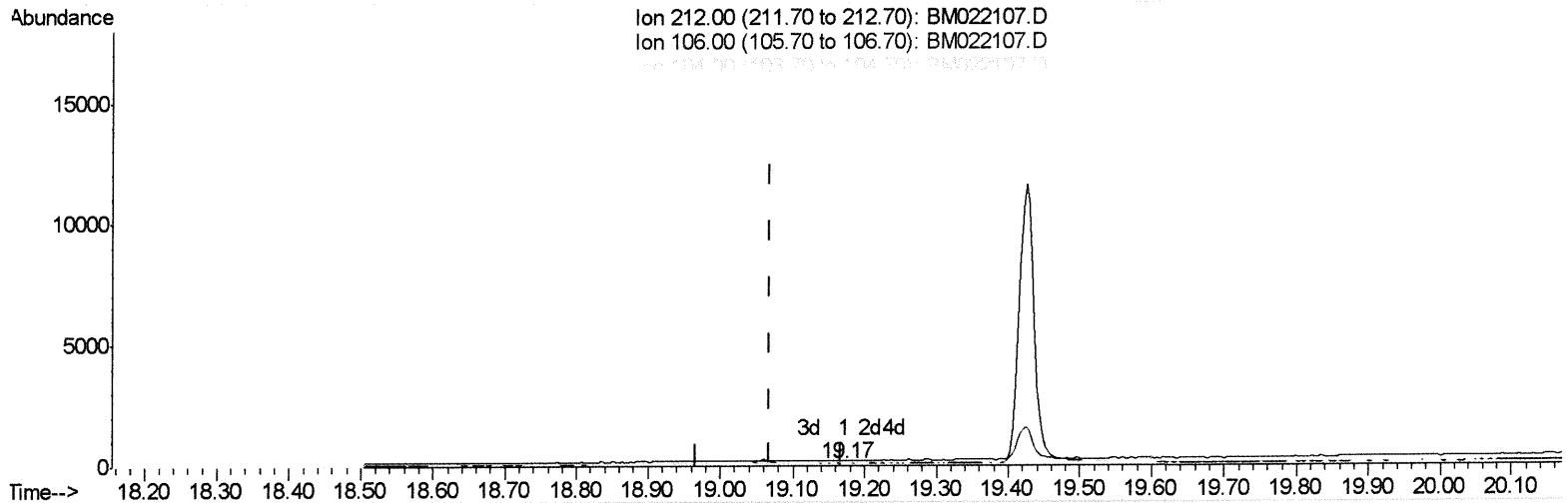
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:37:47 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)

19.173min (+0.105) 0.00ng/ul

response 4

| Ion    | Exp% | Act%    |
|--------|------|---------|
| 212.00 | 100  | 100     |
| 106.00 | 9.90 | 675.00# |
| 104.00 | 6.00 | 275.00# |
| 0.00   | 0.00 | 0.00    |

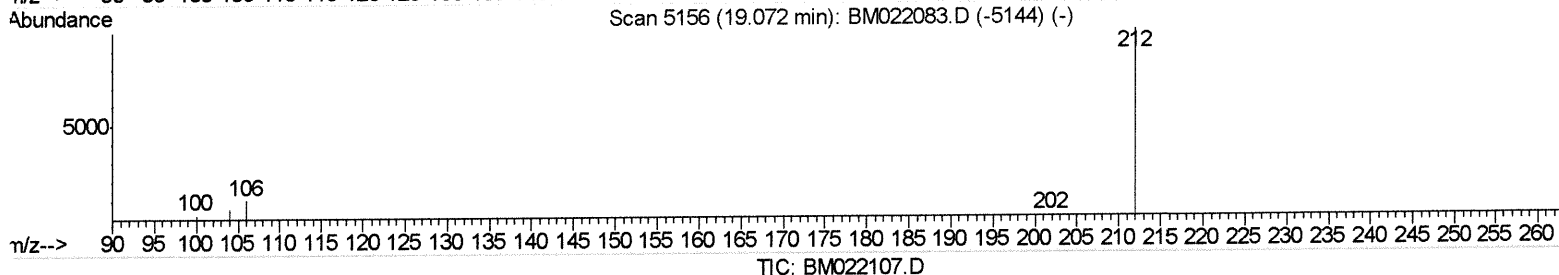
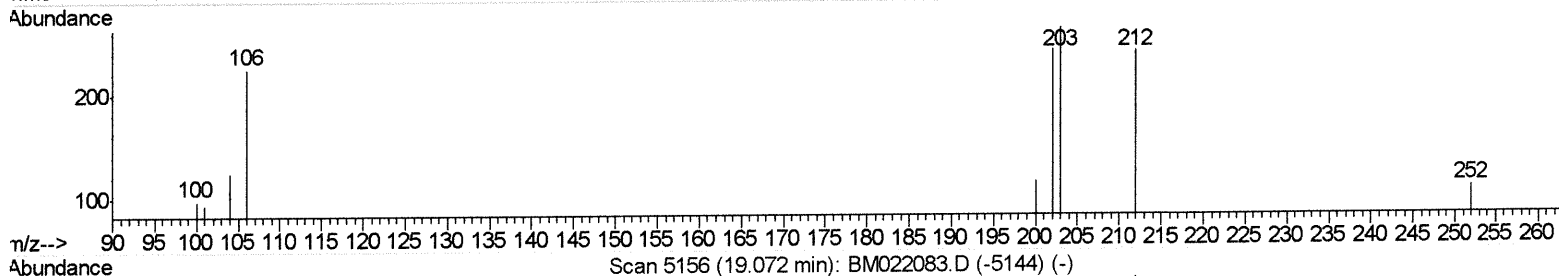
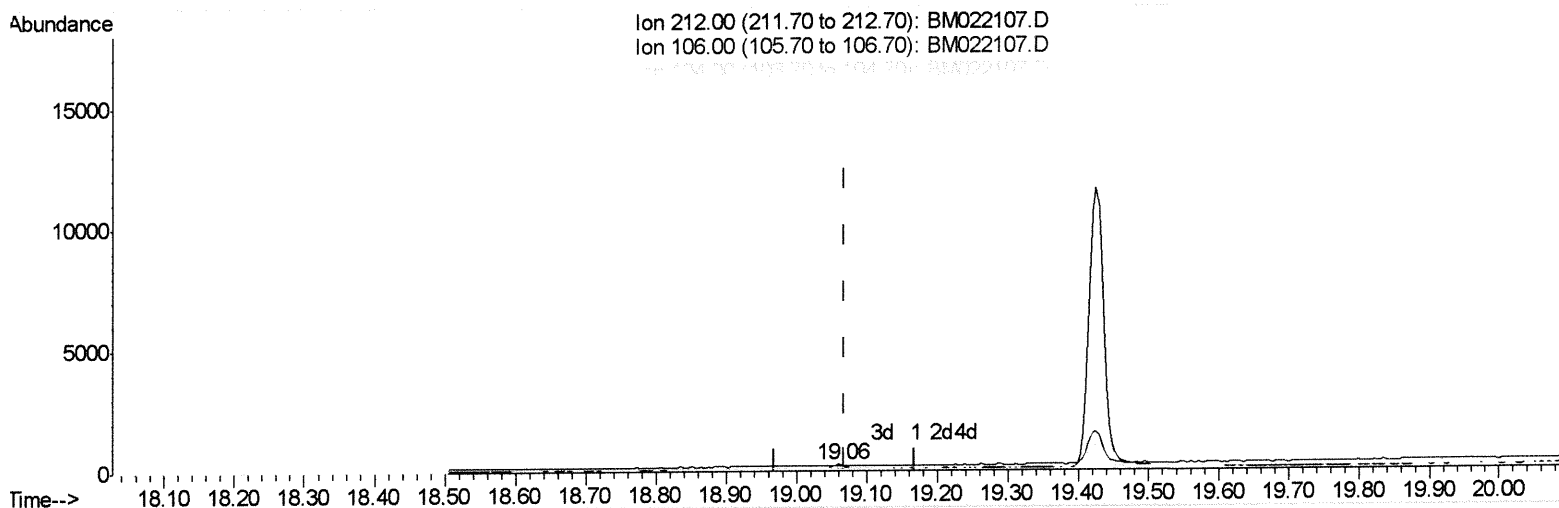
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:37:47 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)

19.062min (-0.006) 0.02ng/ul m

response 264

| Ion    | Exp% | Act%  |
|--------|------|-------|
| 212.00 | 100  | 100   |
| 106.00 | 9.90 | 10.23 |
| 104.00 | 6.00 | 4.17# |
| 0.00   | 0.00 | 0.00  |

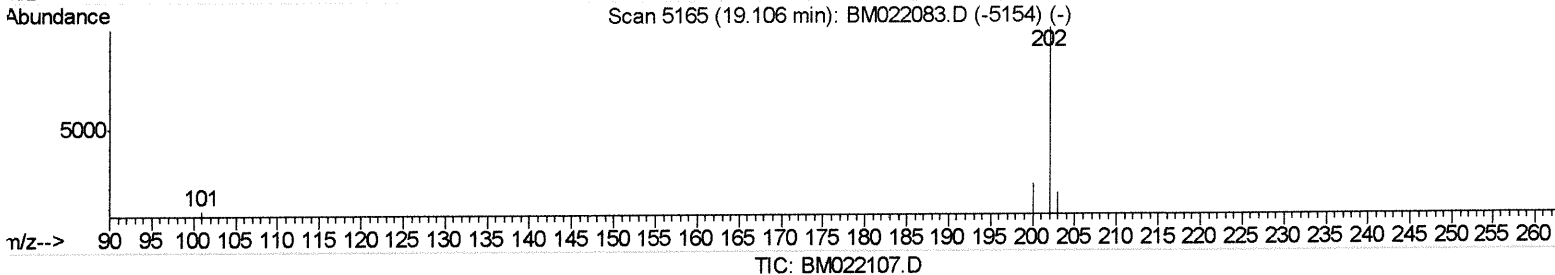
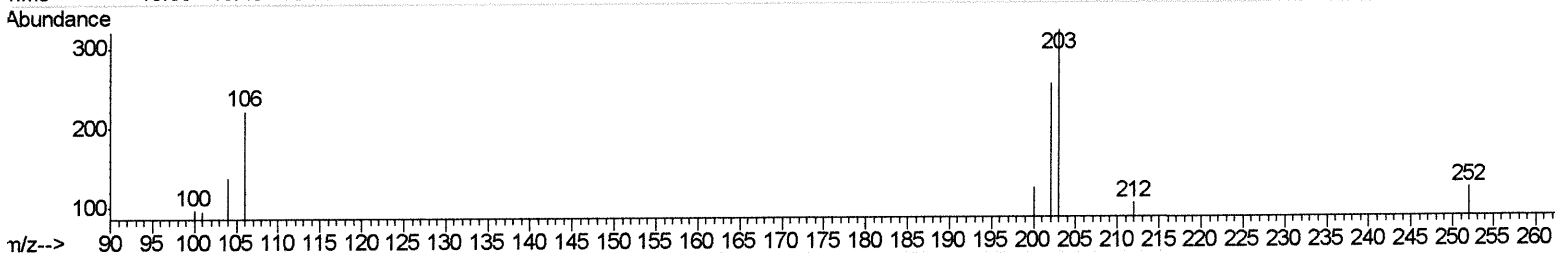
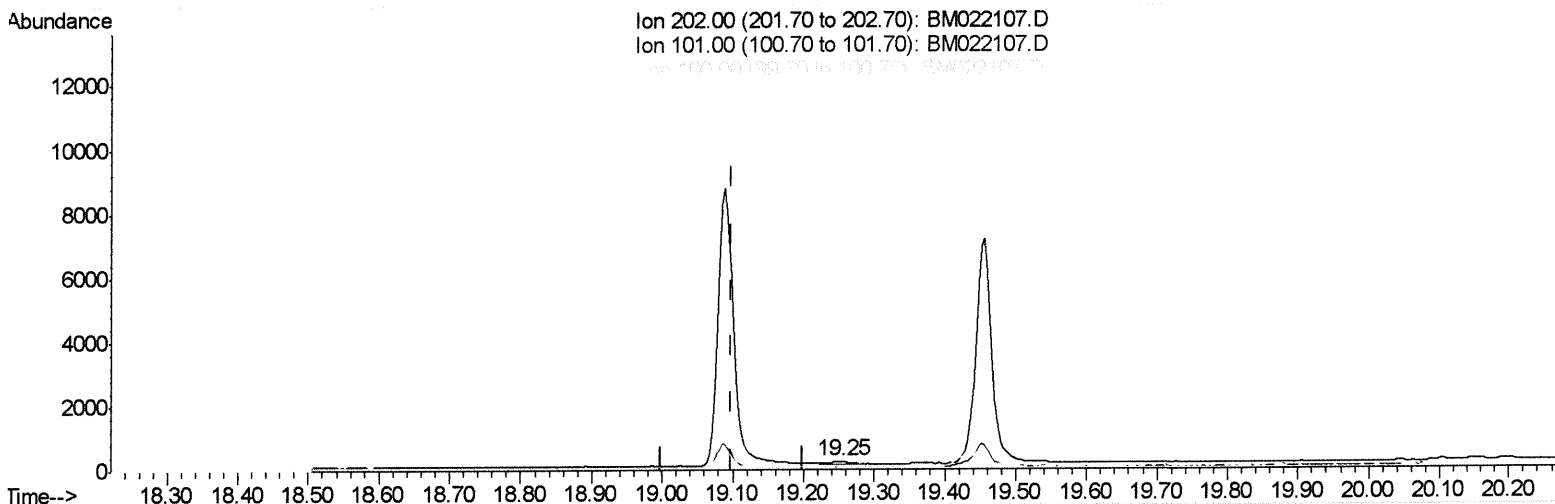
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:37:47 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)

19.253min (+0.154) 0.01ng/ul

response 124

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 202.00 | 100   | 100    |
| 101.00 | 10.20 | 37.55# |
| 100.00 | 8.10  | 38.34# |
| 0.00   | 0.00  | 0.00   |

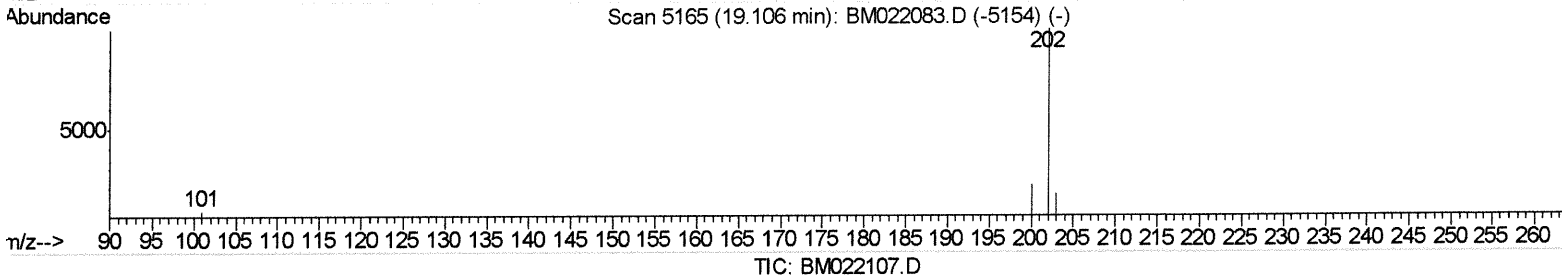
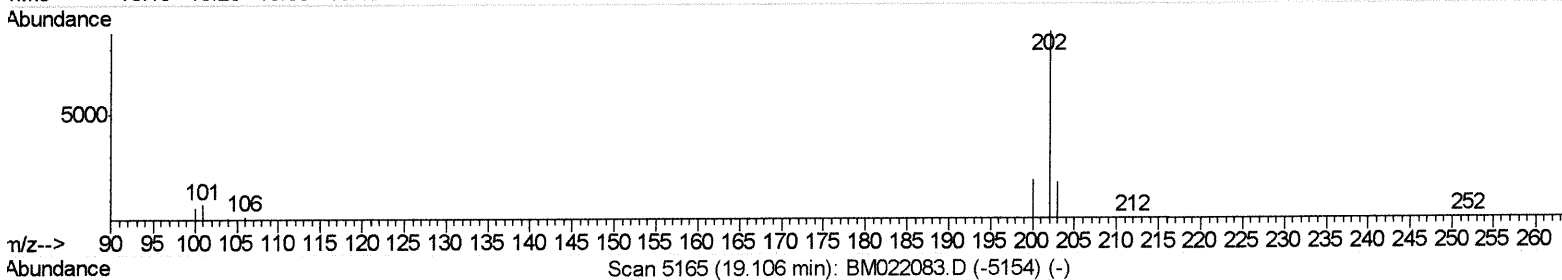
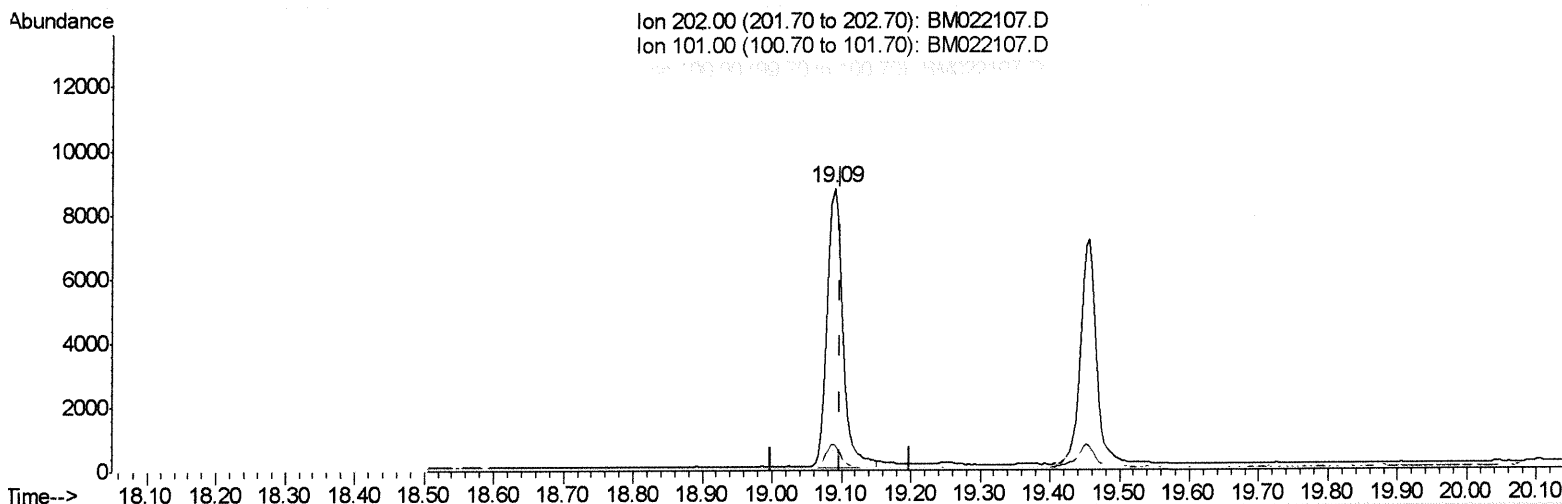
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:37:47 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)

19.089min (-0.010) 0.89ng/ul m 08/15/19

response 13360

| Ion    | Exp%  | Act% |
|--------|-------|------|
| 202.00 | 100   | 100  |
| 101.00 | 10.20 | 9.05 |
| 100.00 | 8.10  | 7.26 |
| 0.00   | 0.00  | 0.00 |

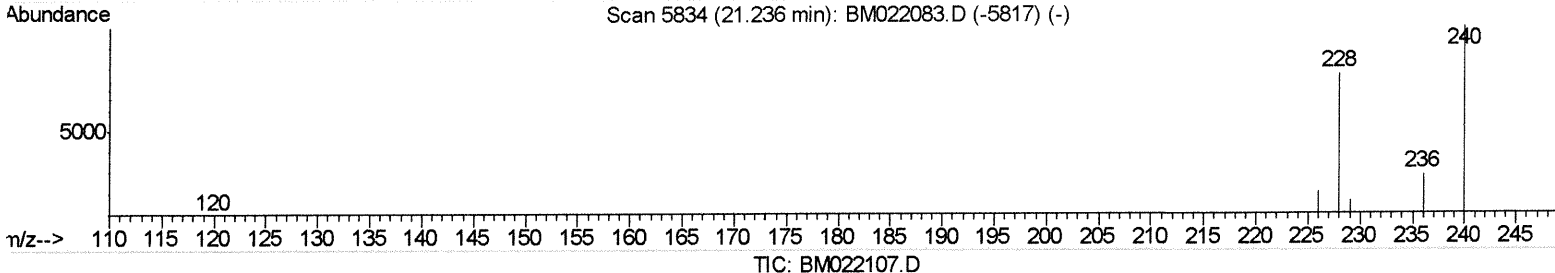
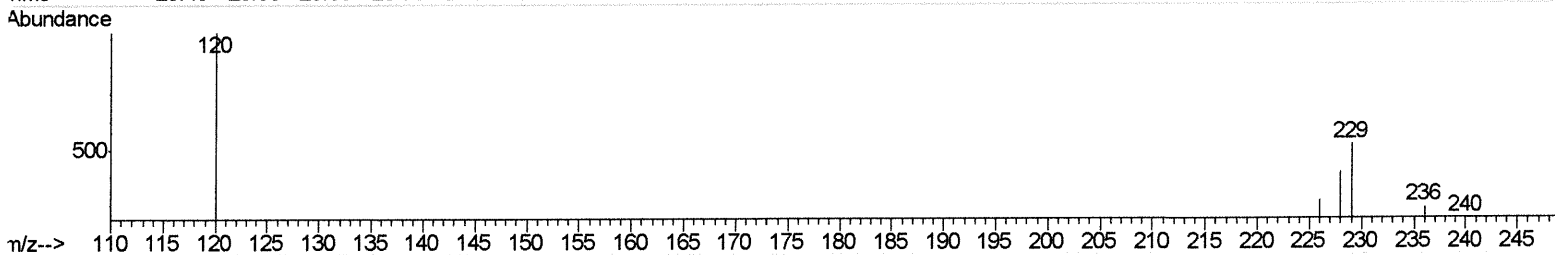
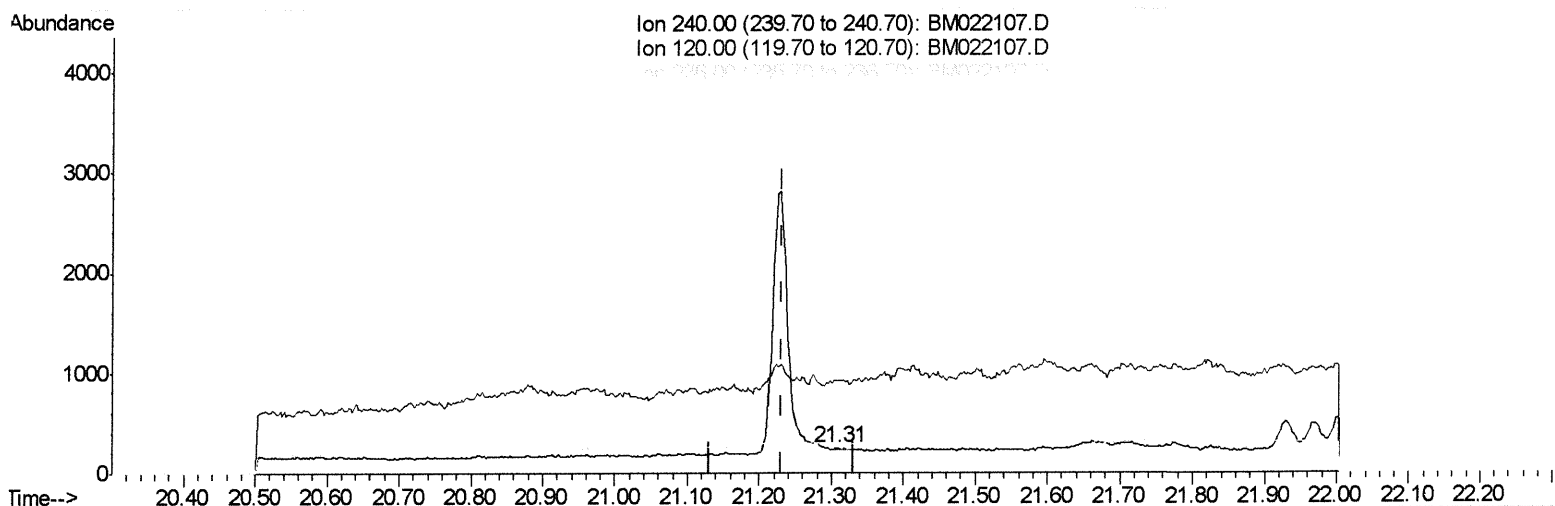
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:37:47 2019  
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 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 14 13:53:23 2019  
 Response via : Initial Calibration



(16) Chrysene-d12 (I)

21.309min (+0.078) 0.40ng/ul

response 16

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 240.00 | 100   | 100     |
| 120.00 | 16.20 | 371.08# |
| 236.00 | 32.30 | 115.26# |
| 0.00   | 0.00  | 0.00    |

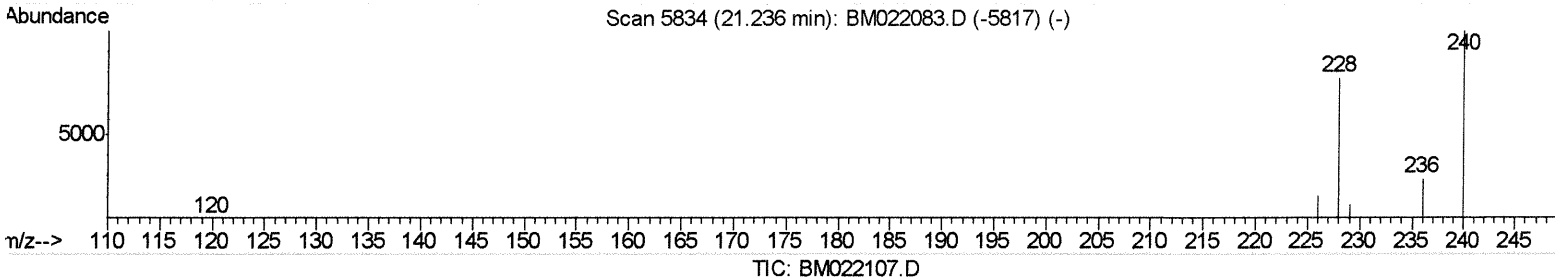
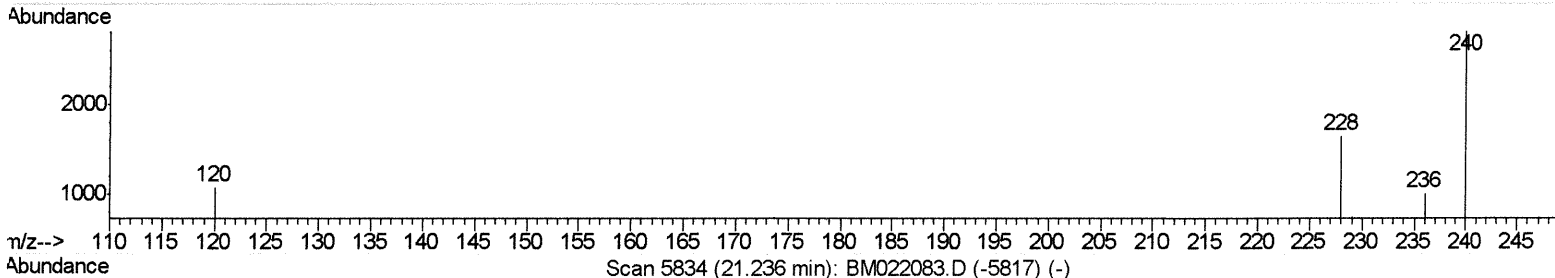
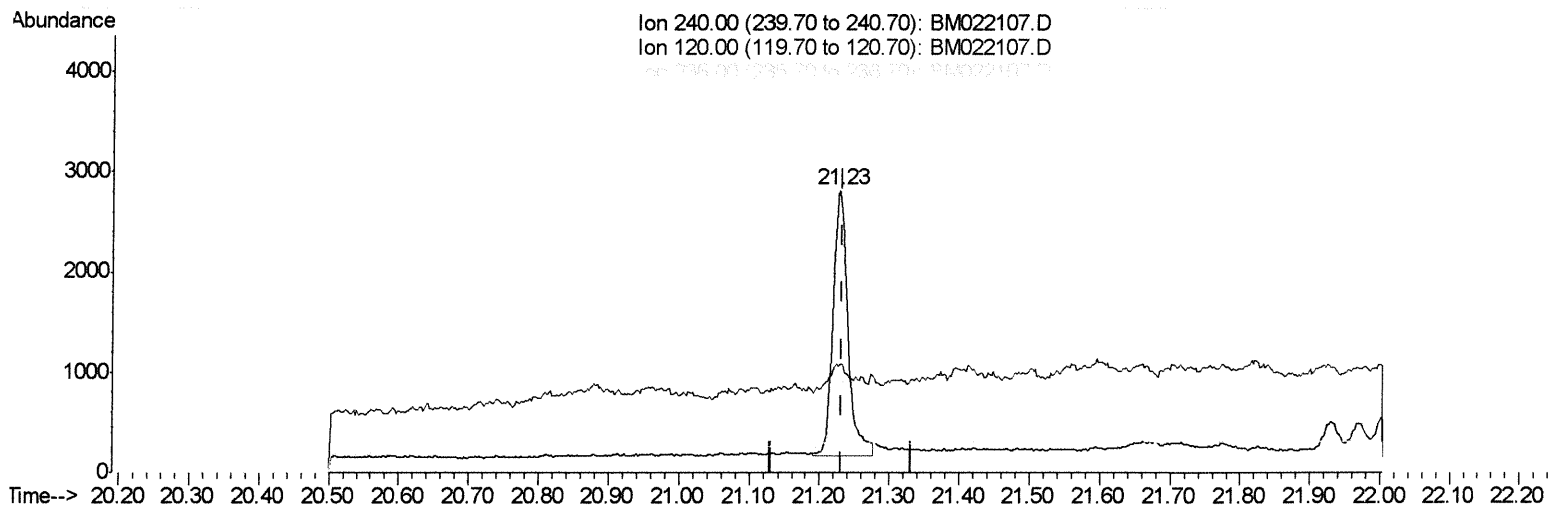
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:37:47 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



(16) Chrysene-d12 (I)

21.227min (-0.004) 0.40ng/ul m

JU  
 8/15/19

response 3921

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 240.00 | 100   | 100    |
| 120.00 | 16.20 | 38.31# |
| 236.00 | 32.30 | 35.72  |
| 0.00   | 0.00  | 0.00   |

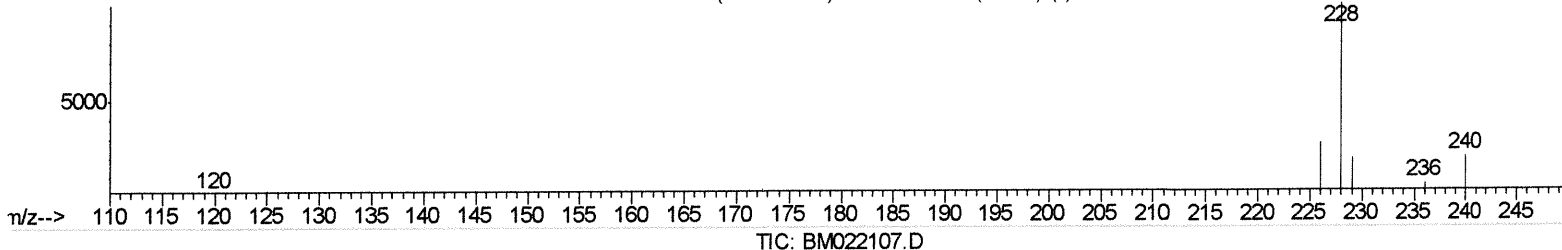
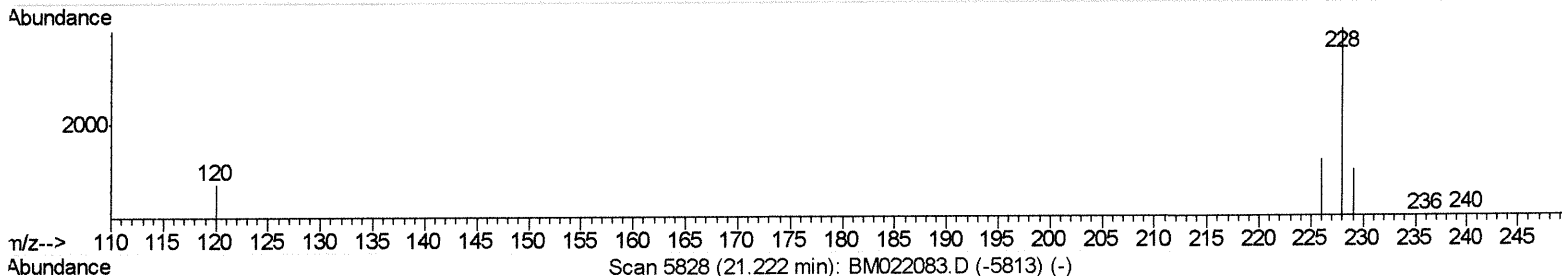
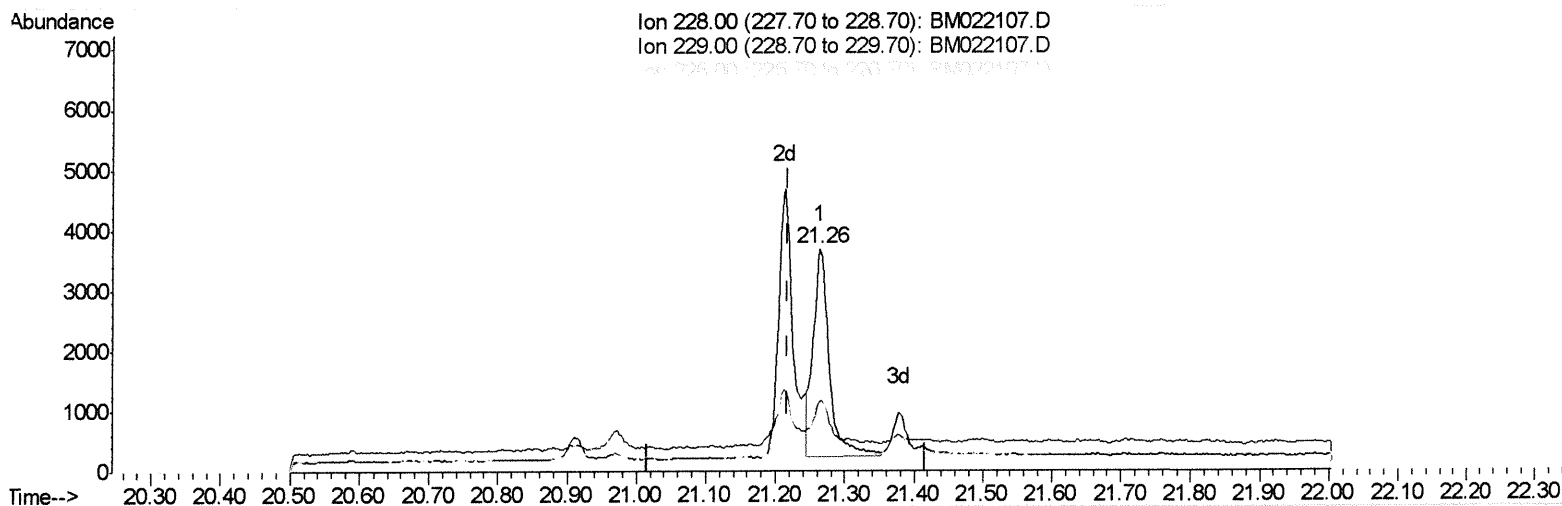
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:57:17 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



(18) Benzo(a)anthracene

21.263min (+0.046) 0.40ng/ui

response 5629

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 228.00 | 100   | 100    |
| 229.00 | 21.50 | 31.10# |
| 226.00 | 28.30 | 35.91# |
| 0.00   | 0.00  | 0.00   |

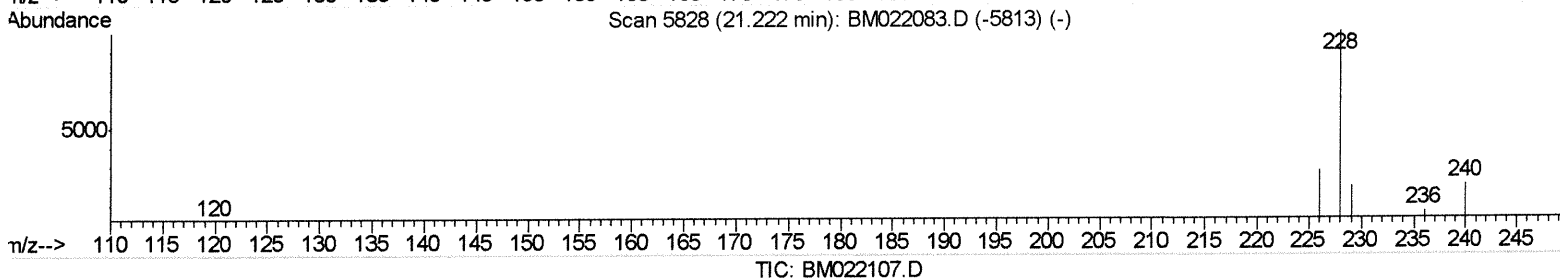
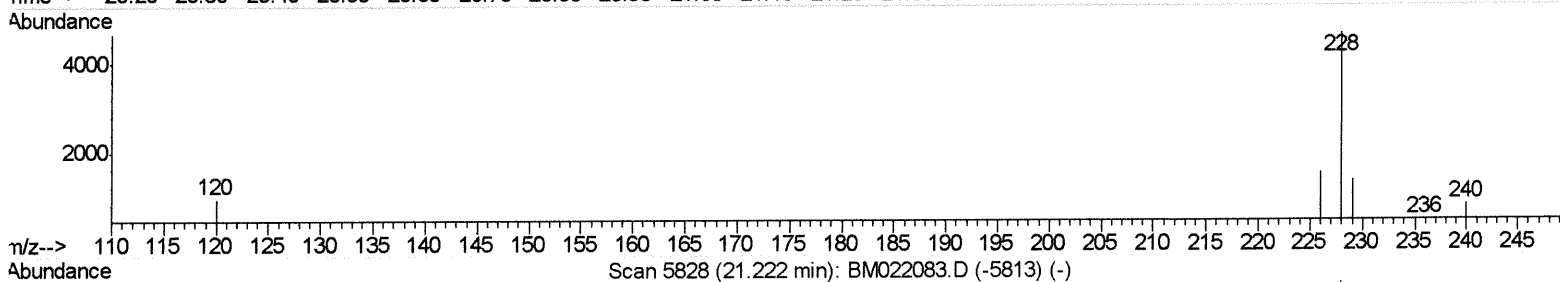
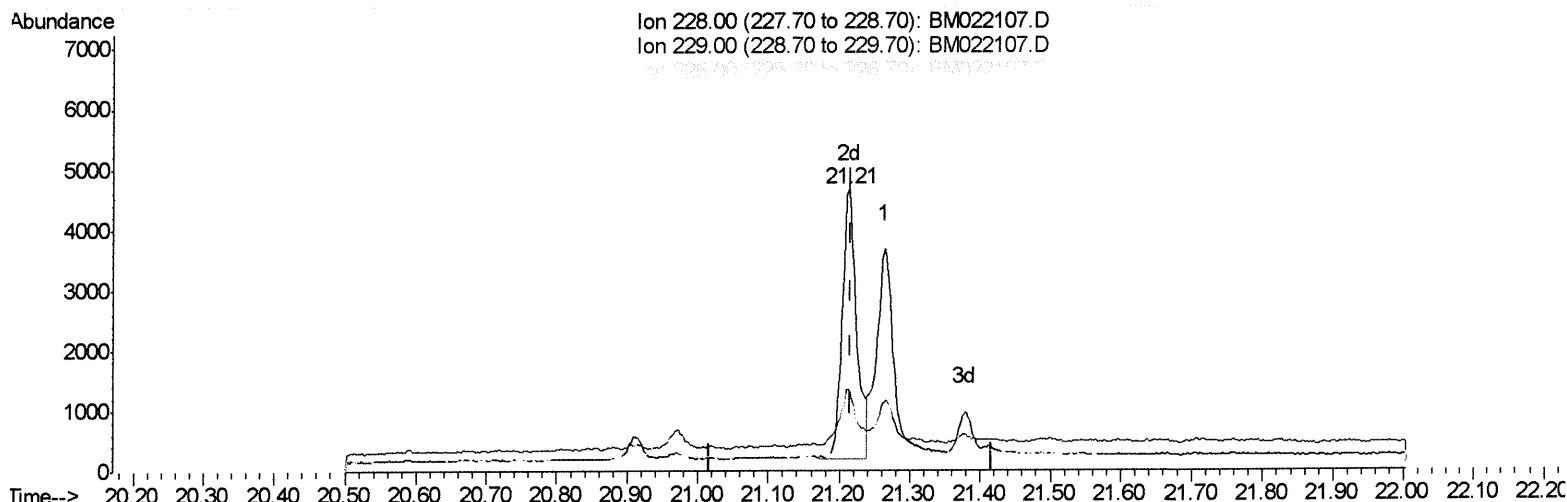
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampled :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:57:17 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



(18) Benzo(a)anthracene

21.212min (-0.004) 0.46ng/ul m *JU 08/15/19*

response 6436

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 228.00 | 100   | 100    |
| 229.00 | 21.50 | 28.79# |
| 226.00 | 28.30 | 32.38  |
| 0.00   | 0.00  | 0.00   |

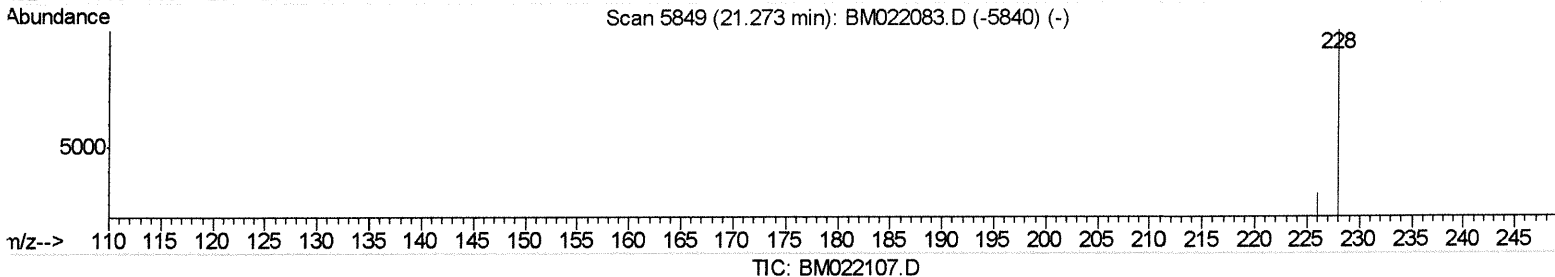
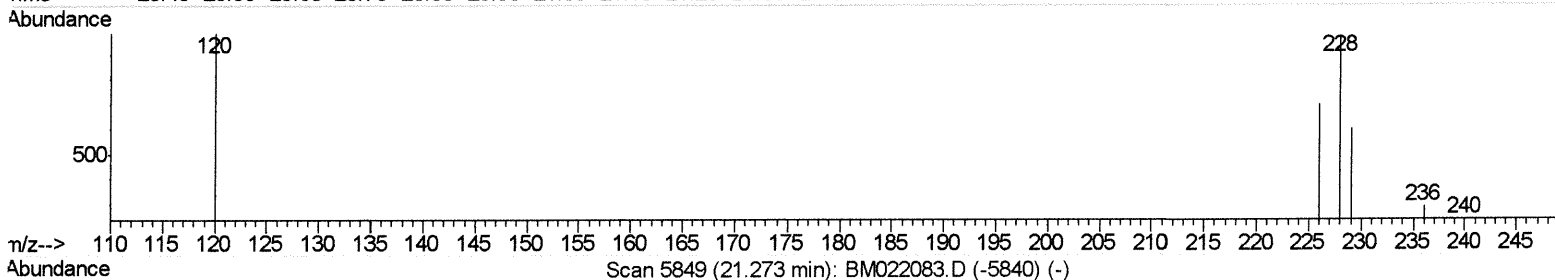
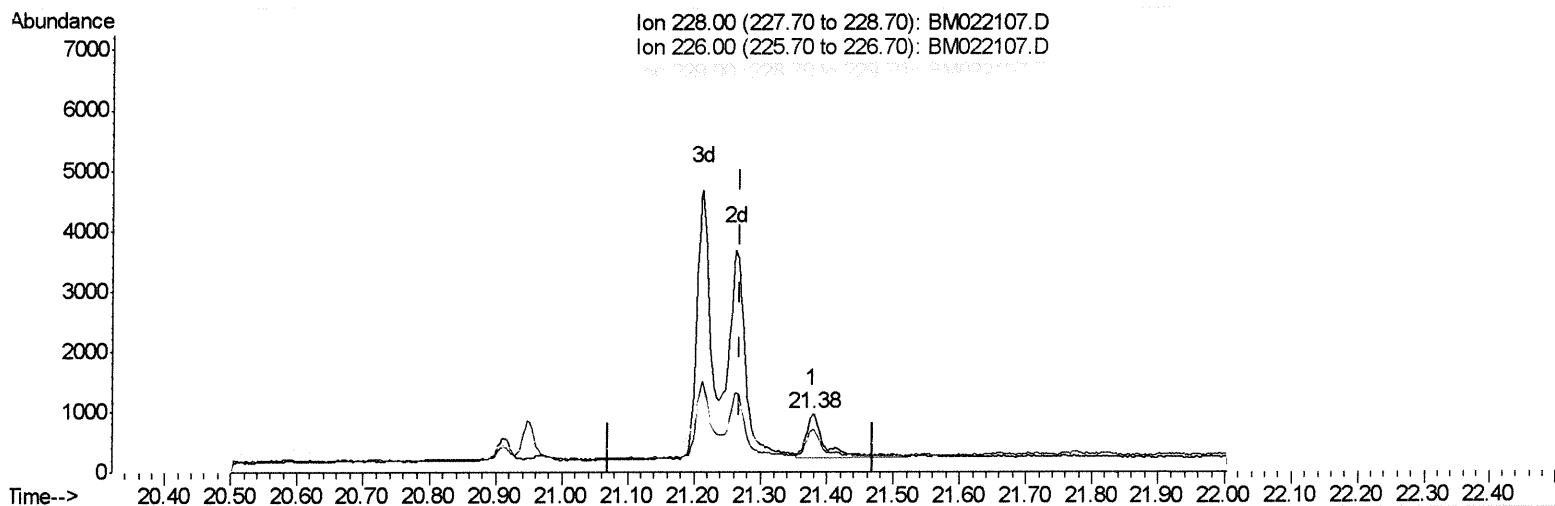
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:57:17 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



(19) Chrysene

21.377min (+0.107) 0.08ng/ul

response 1372

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 228.00 | 100   | 100    |
| 226.00 | 31.10 | 72.61# |
| 229.00 | 20.80 | 62.45# |
| 0.00   | 0.00  | 0.00   |

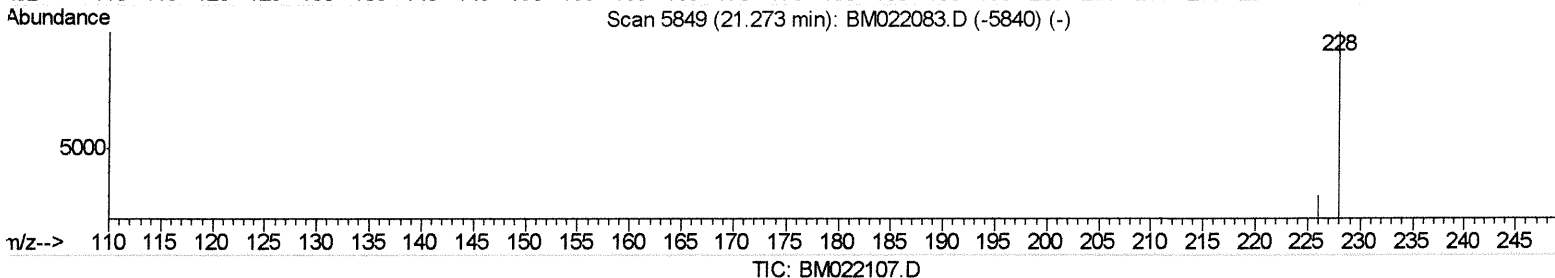
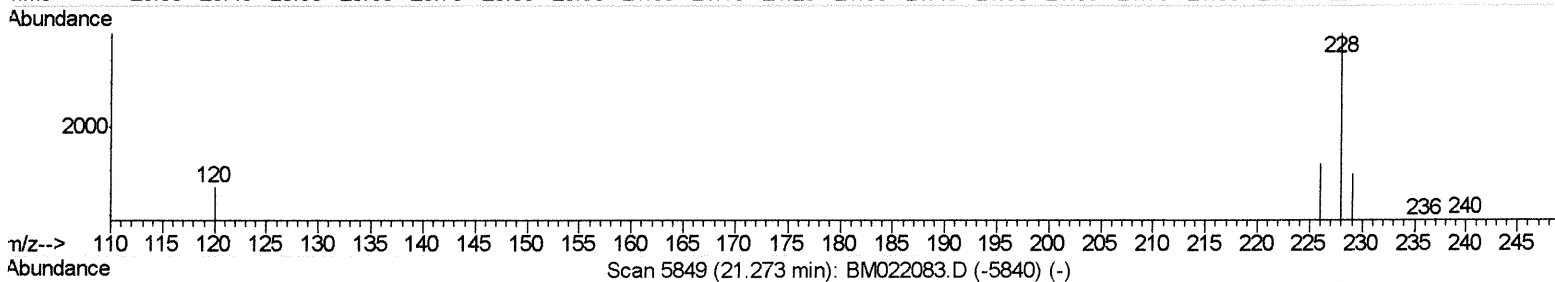
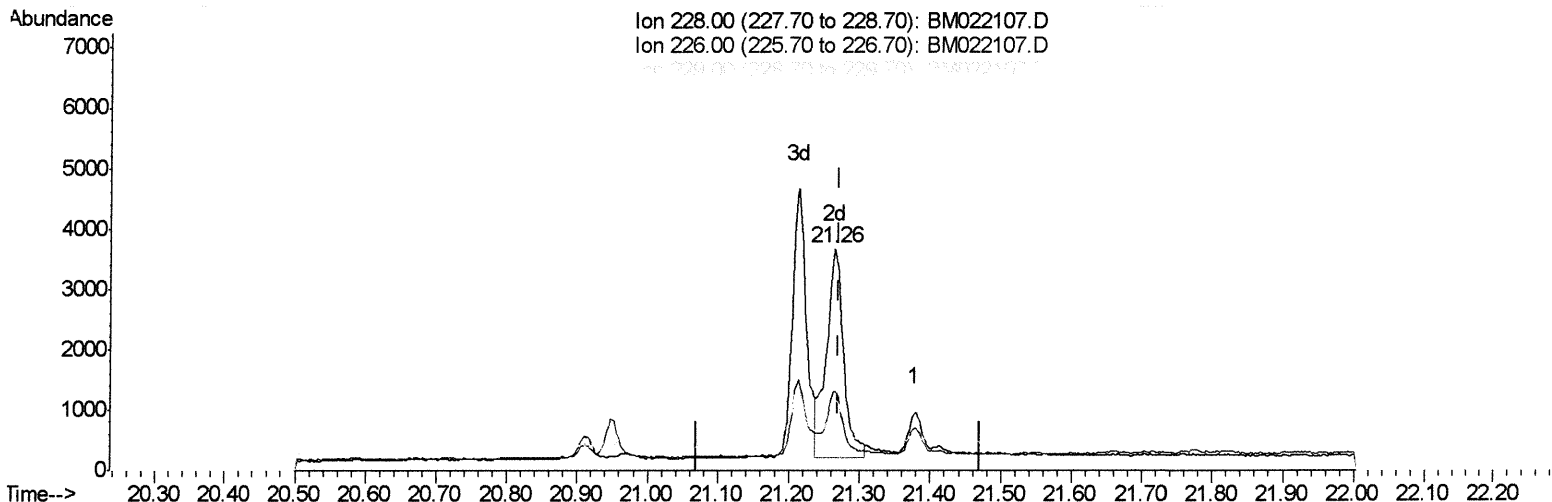
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleID :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:57:17 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



(19) Chrysene

21.263min (-0.007) 0.33ng/ul m *JU 08/15/19*

response 5899

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 228.00 | 100   | 100    |
| 226.00 | 31.10 | 35.91  |
| 229.00 | 20.80 | 31.10# |
| 0.00   | 0.00  | 0.00   |

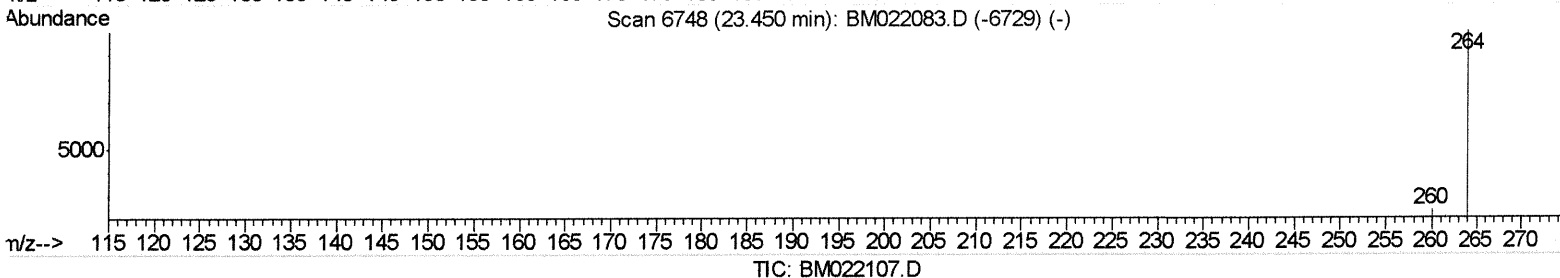
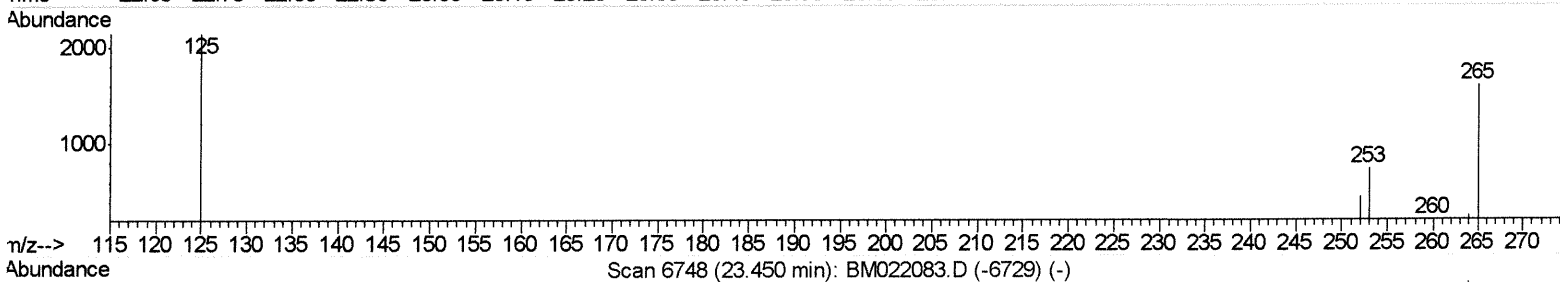
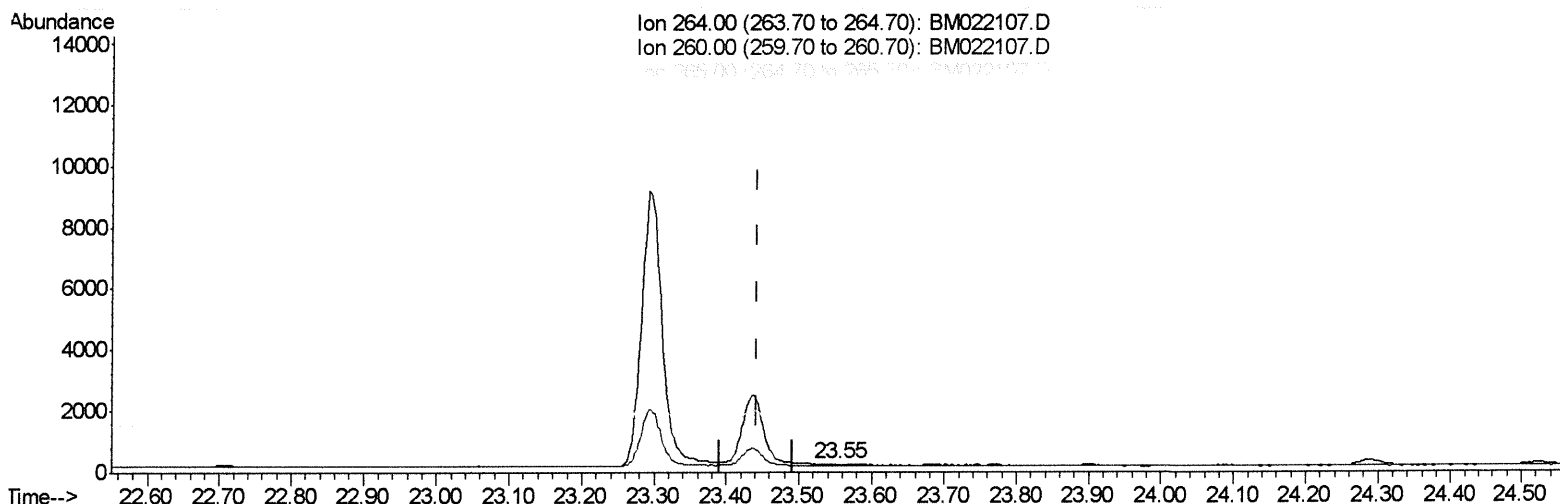
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:57:17 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



(20) Perylene-d12 (I)

23.554min (+0.112) 0.40ng/ul

response 9

| Ion    | Exp%   | Act%    |
|--------|--------|---------|
| 264.00 | 100    | 100     |
| 260.00 | 27.50  | 81.96#  |
| 265.00 | 117.00 | 627.45# |
| 0.00   | 0.00   | 0.00    |

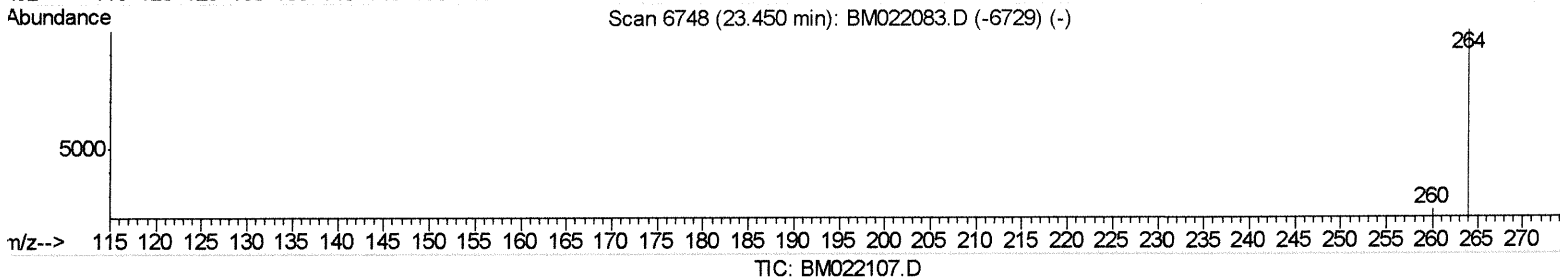
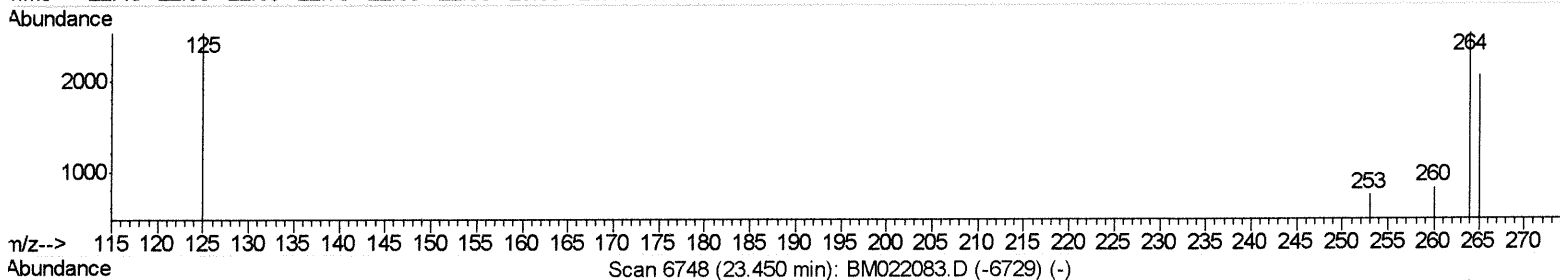
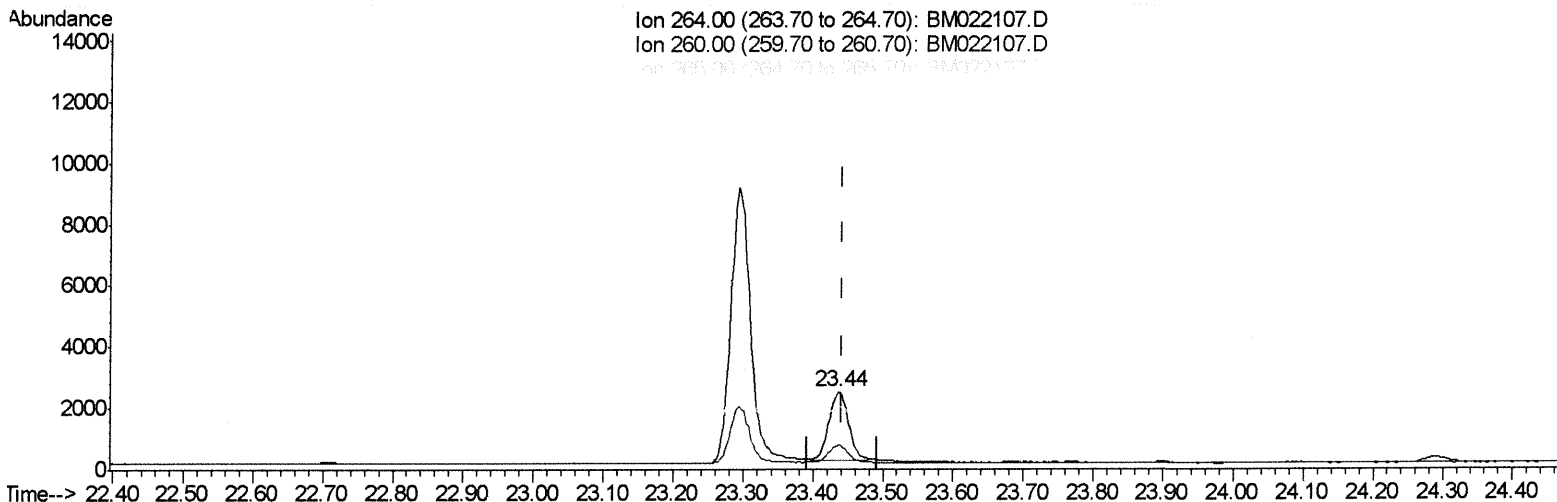
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:57:17 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



(20) Perylene-d12 (I)

23.436min (-0.007) 0.40ng/ul m *JU 08/15/19*

response 4459

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 264.00 | 100    | 100    |
| 260.00 | 27.50  | 32.12  |
| 265.00 | 117.00 | 81.11# |
| 0.00   | 0.00   | 0.00   |

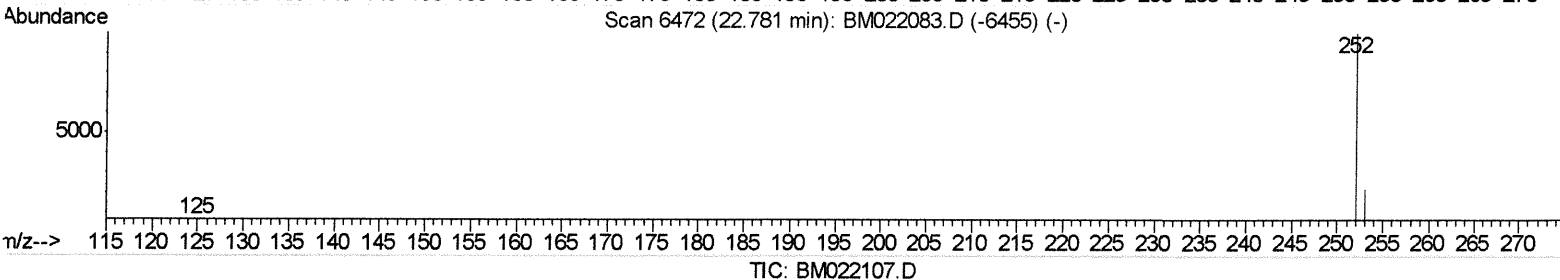
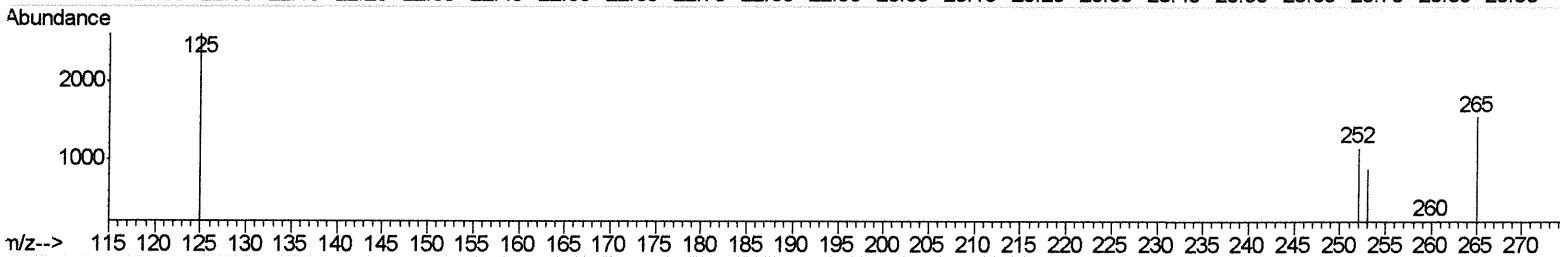
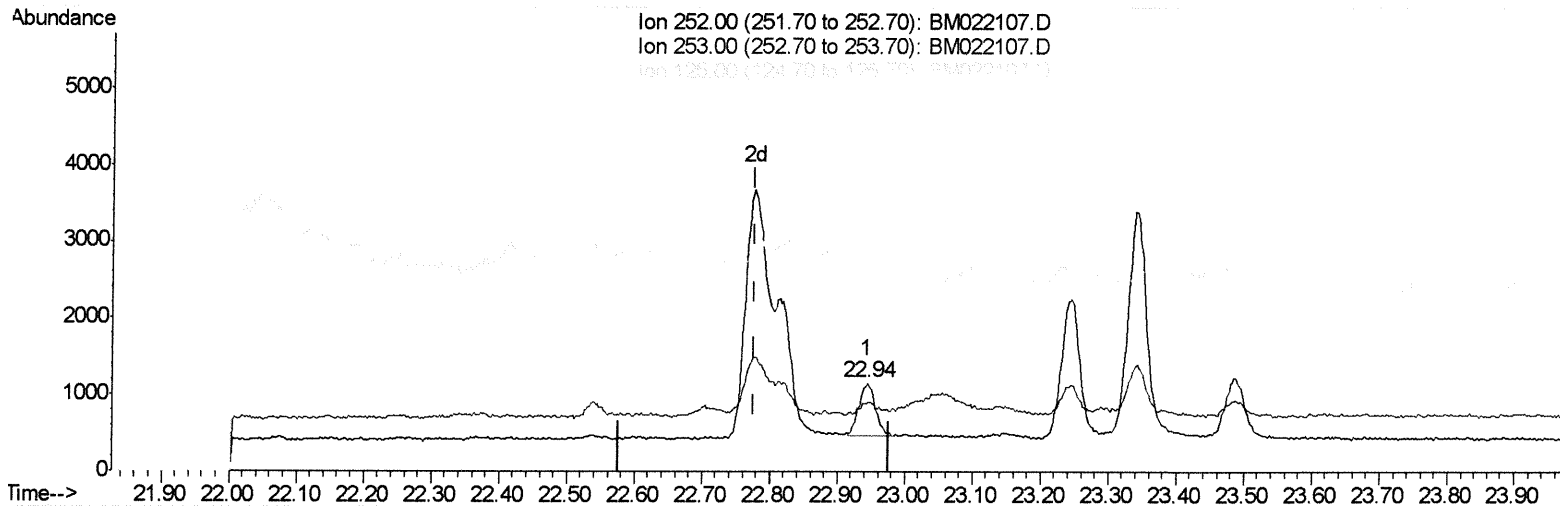
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:58:43 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



(21) Benzo(b)fluoranthene  
 22.944min (+0.168) 0.08ng/ul  
 response 1165  

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 33.70 | 77.64#  |
| 125.00 | 15.50 | 226.34# |
| 0.00   | 0.00  | 0.00    |

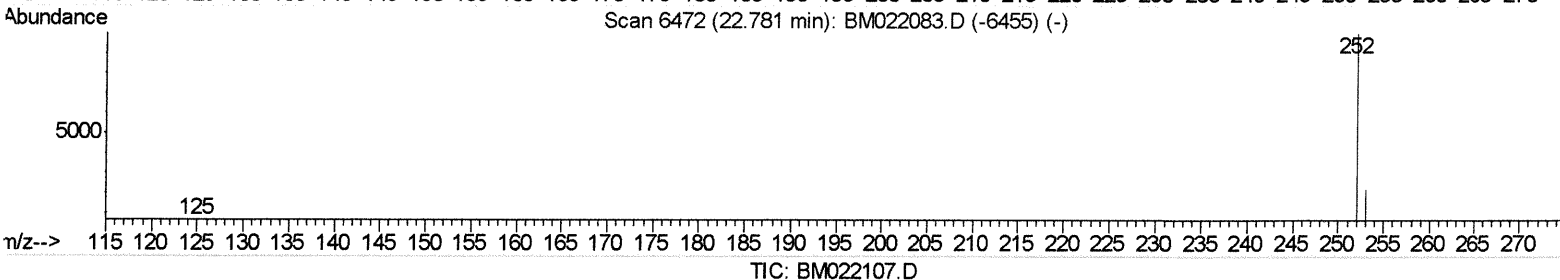
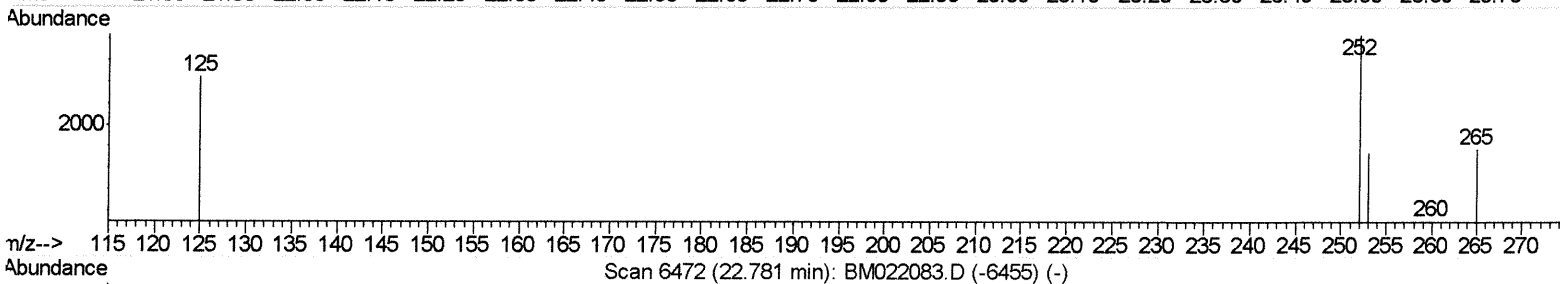
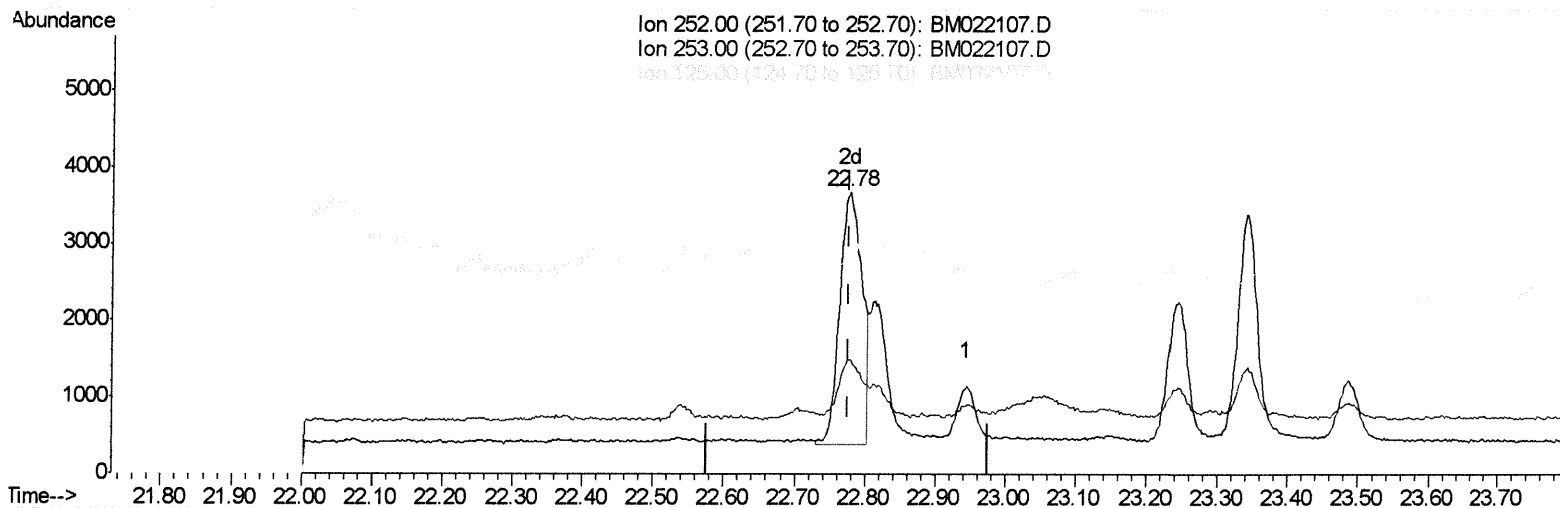
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:58:43 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



(21) Benzo(b)fluoranthene

22.777min (+0.000) 0.49ng/ul m *JU 08/15/19*

response 7319

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 33.70 | 40.52  |
| 125.00 | 15.50 | 78.38# |
| 0.00   | 0.00  | 0.00   |

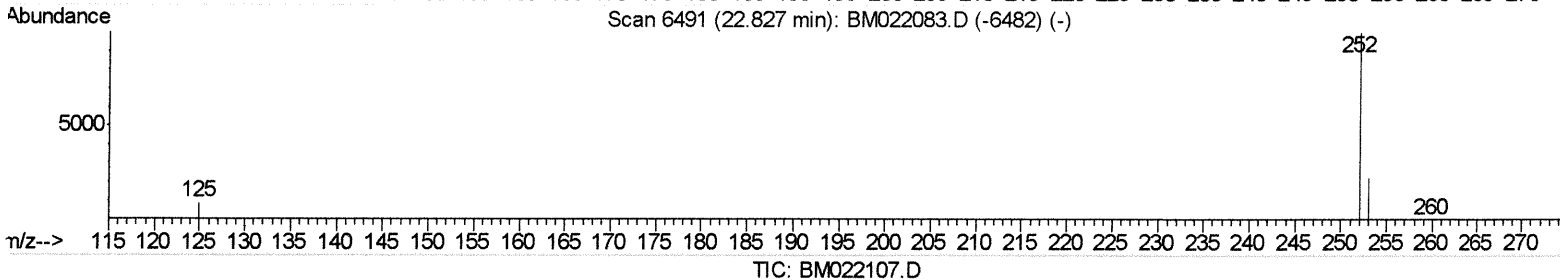
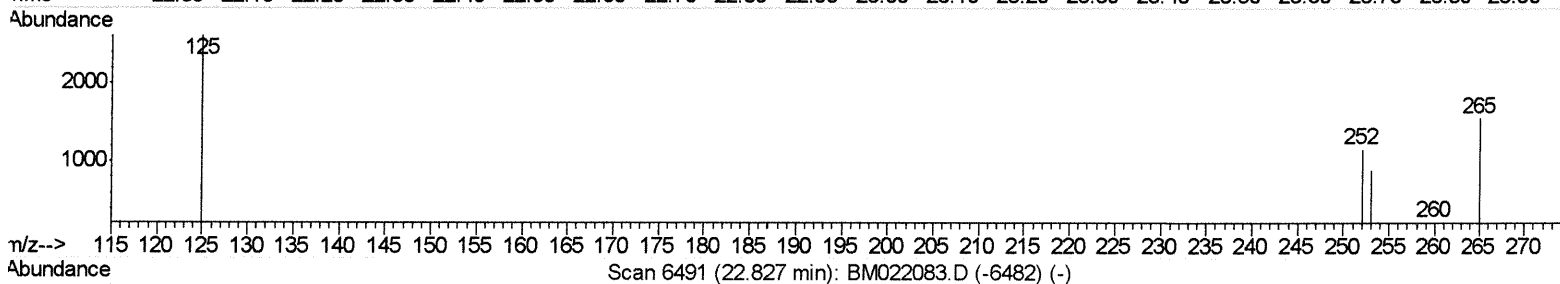
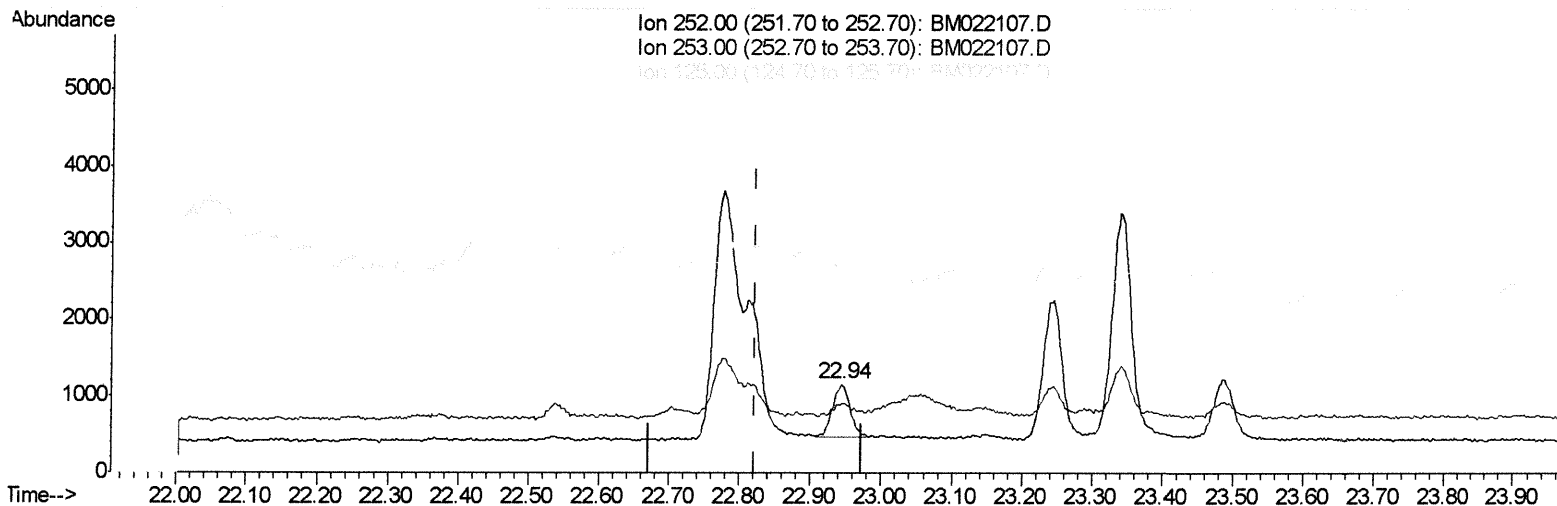
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:58:43 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  
 22.944min (+0.122) 0.07ng/ul  
 response 1212

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 33.70 | 77.64#  |
| 125.00 | 15.20 | 226.34# |
| 0.00   | 0.00  | 0.00    |

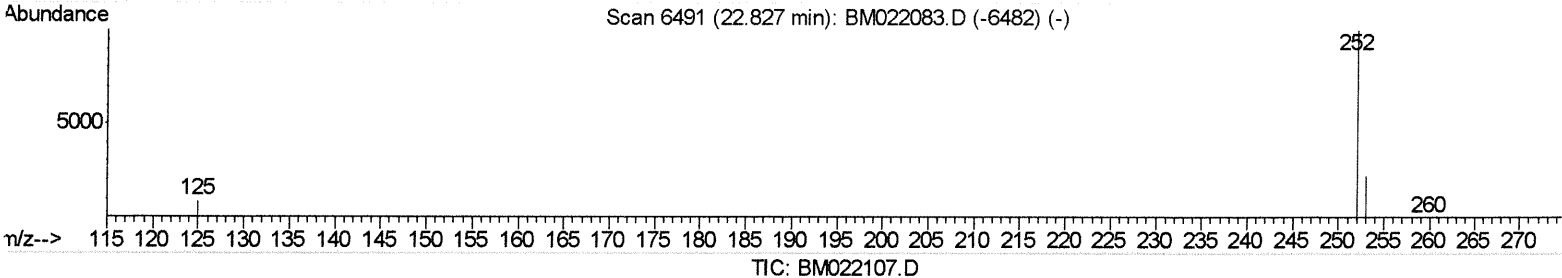
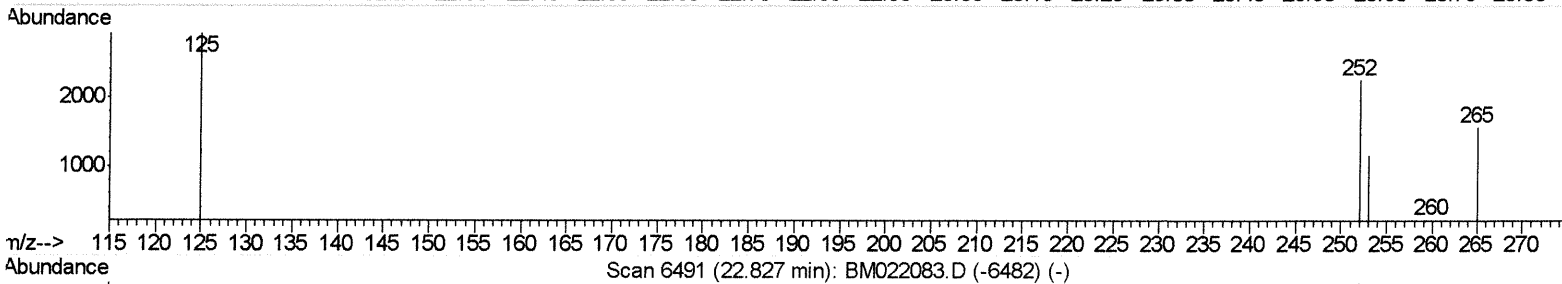
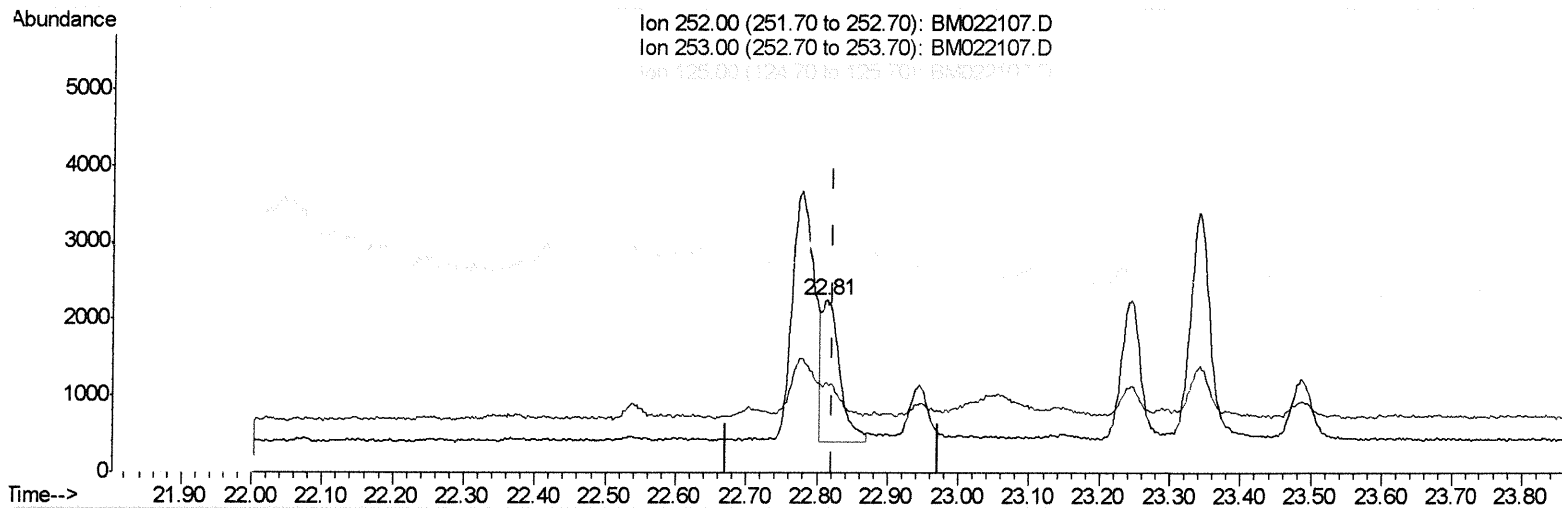
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:58:43 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

22.813min (-0.009) 0.19ng/ul m *JU 08/15/19*

response 3251

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 33.70 | 51.75#  |
| 125.00 | 15.20 | 129.81# |
| 0.00   | 0.00  | 0.00    |

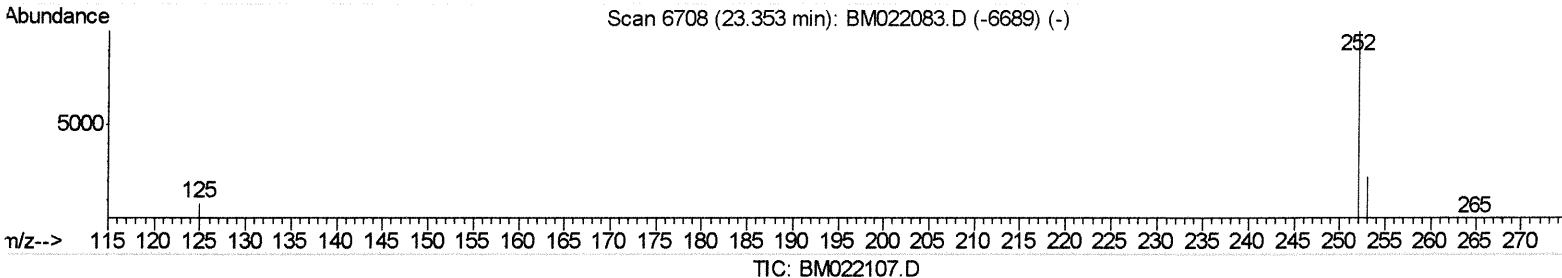
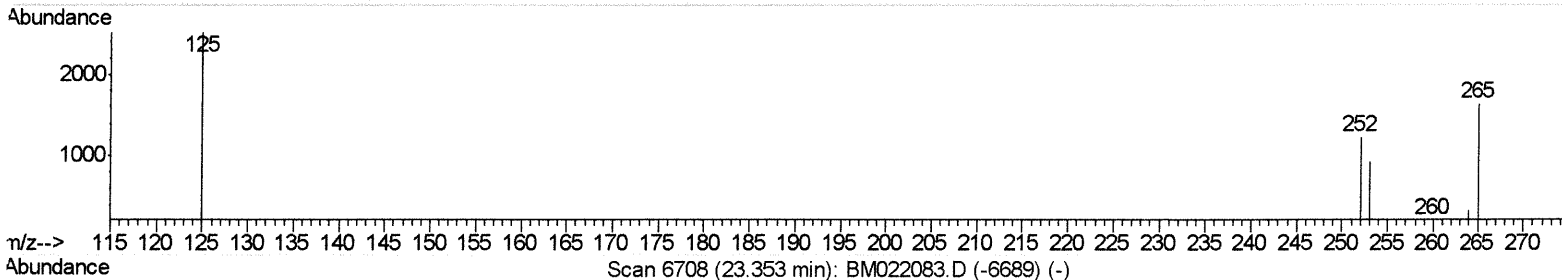
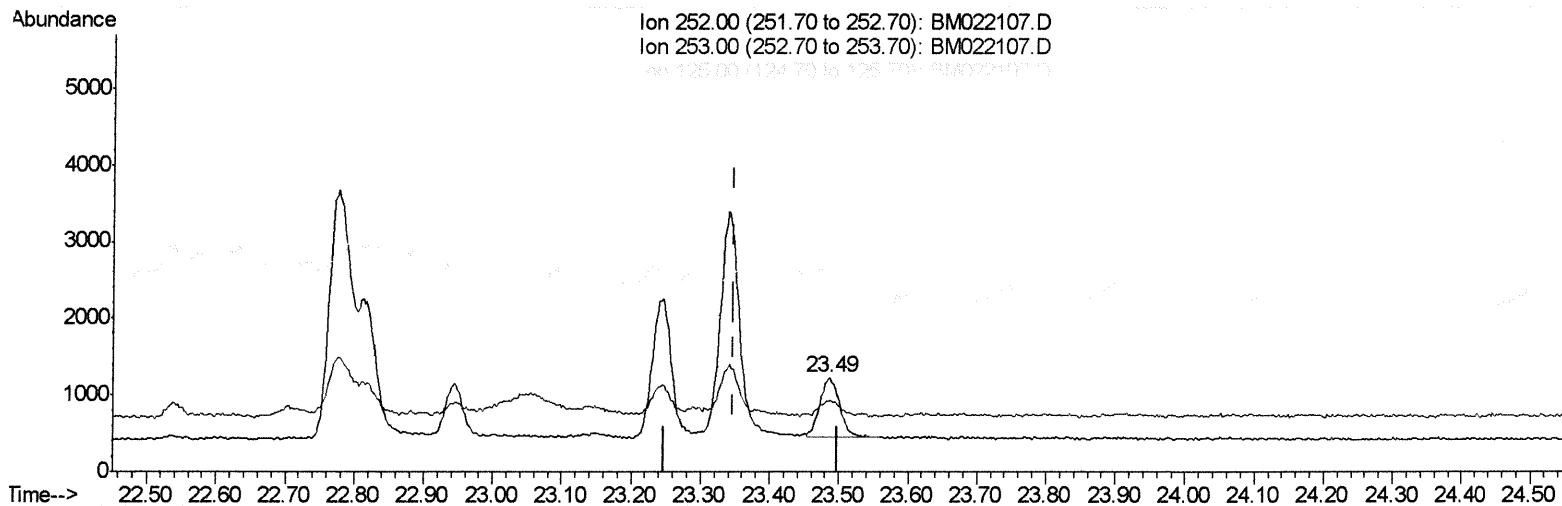
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:58:43 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



(23) Benzo(a)pyrene (C)

23.487min (+0.139) 0.10ng/ul

response 1583

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 252.00 | 100   | 100     |
| 253.00 | 39.60 | 75.94#  |
| 125.00 | 18.20 | 204.65# |
| 0.00   | 0.00  | 0.00    |

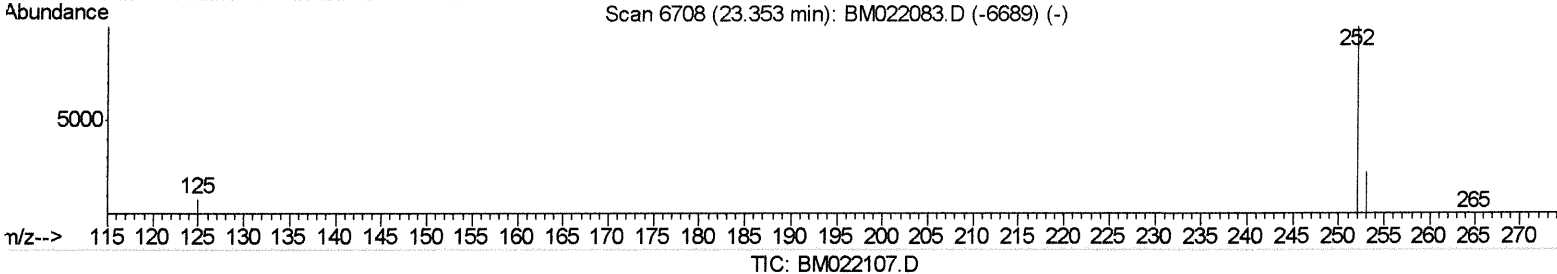
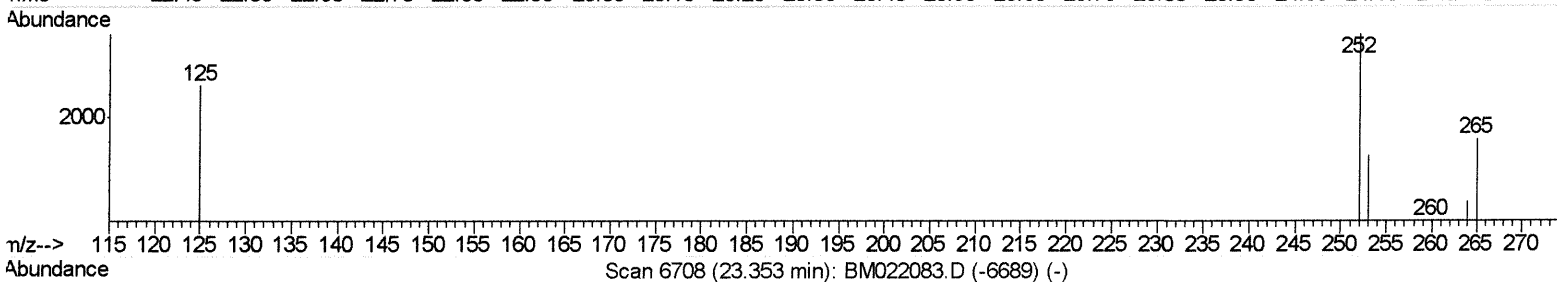
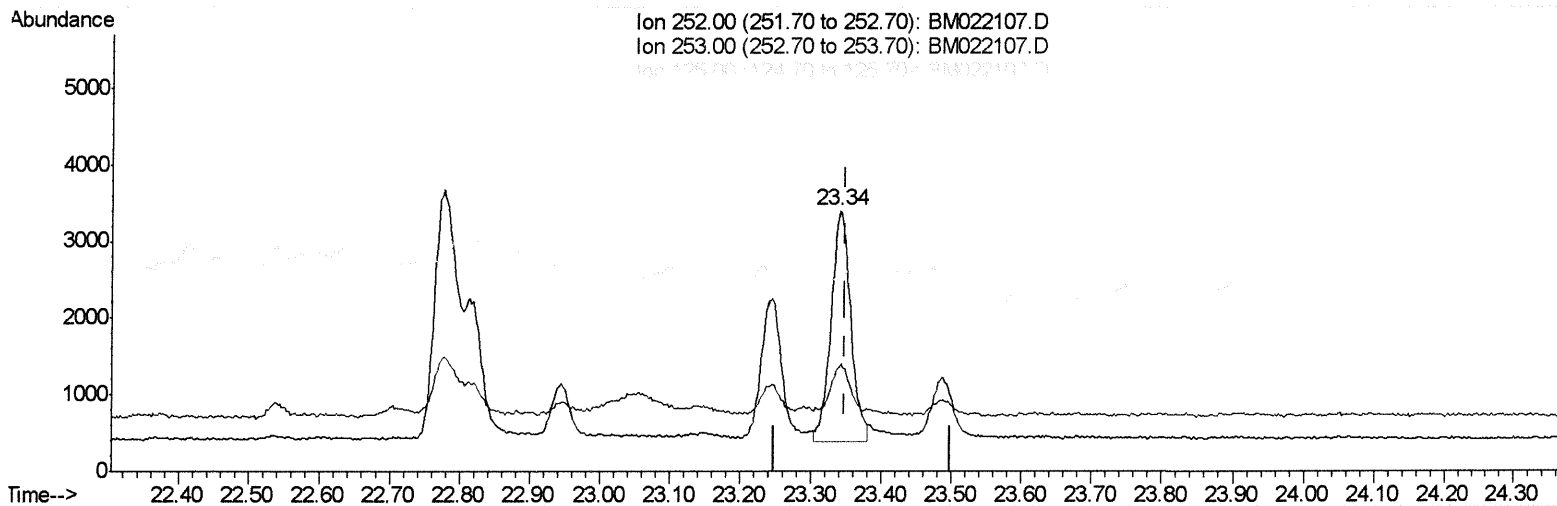
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:58:43 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



(23) Benzo(a)pyrene (C)

23.339min (-0.009) 0.39ng/ul m *JU 8/15/19*

response 5931

| Ion    | Exp%  | Act%   |
|--------|-------|--------|
| 252.00 | 100   | 100    |
| 253.00 | 39.60 | 40.19  |
| 125.00 | 18.20 | 74.87# |
| 0.00   | 0.00  | 0.00   |

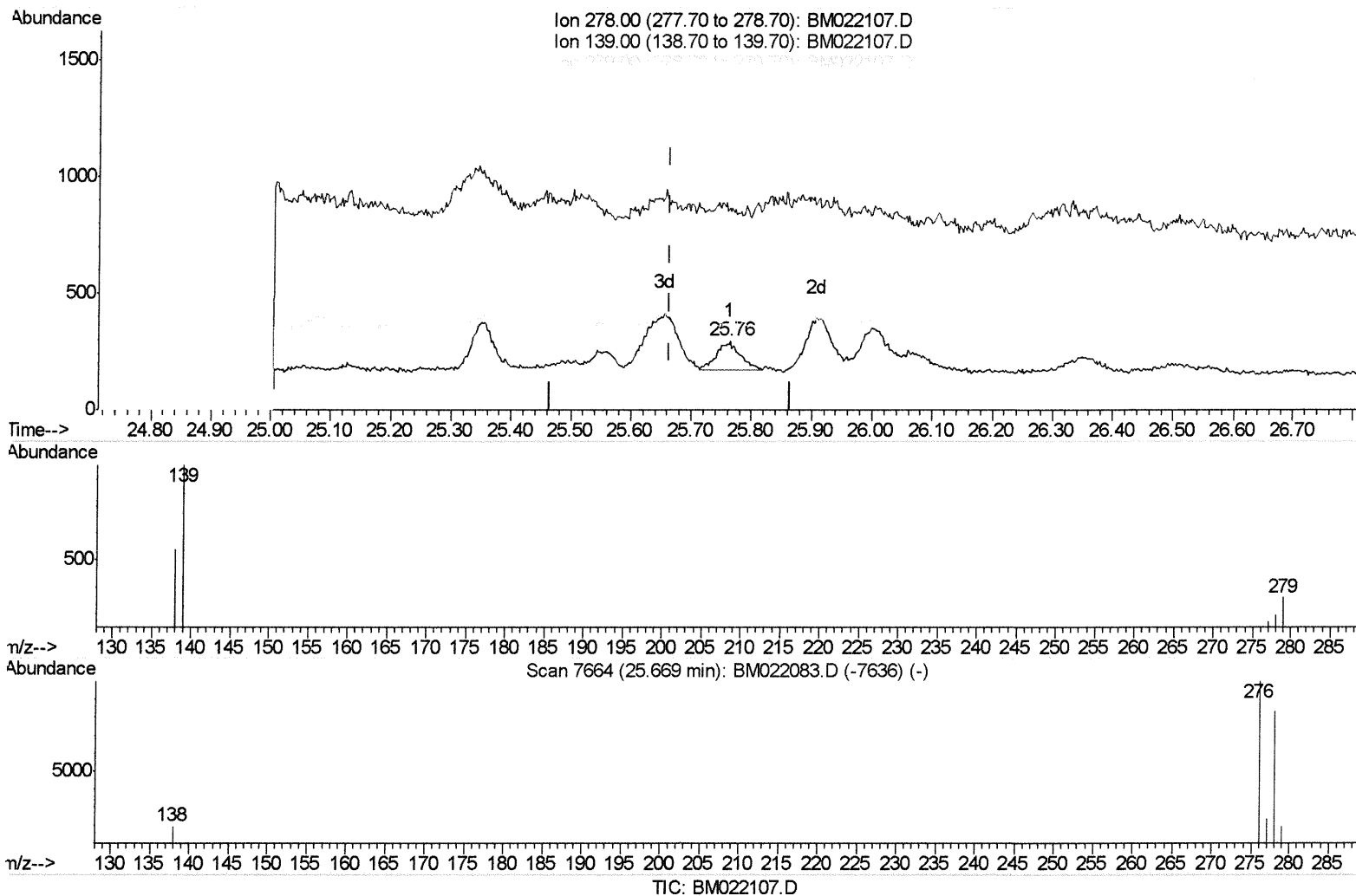
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampled :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:58:43 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



(25) Dibenzo(a,h)anthracene

25.764min (+0.100) 0.02ng/ul

response 322

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 278.00 | 100   | 100     |
| 139.00 | 17.70 | 287.84# |
| 279.00 | 35.40 | 121.96# |
| 0.00   | 0.00  | 0.00    |

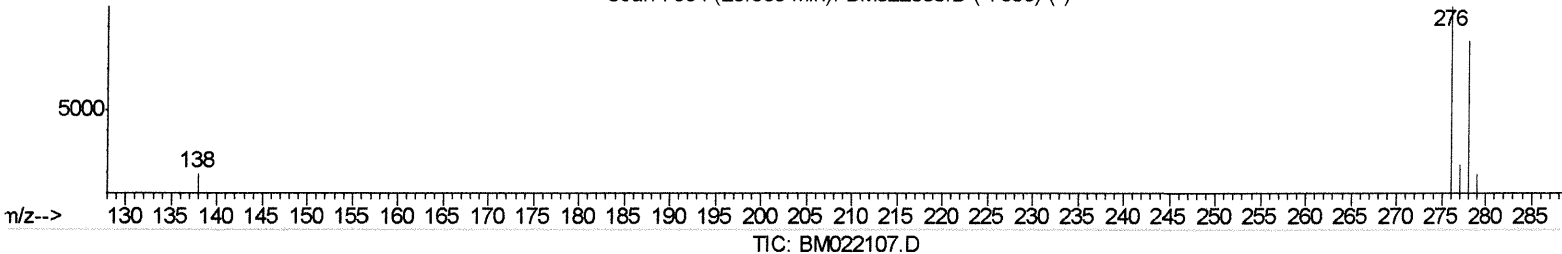
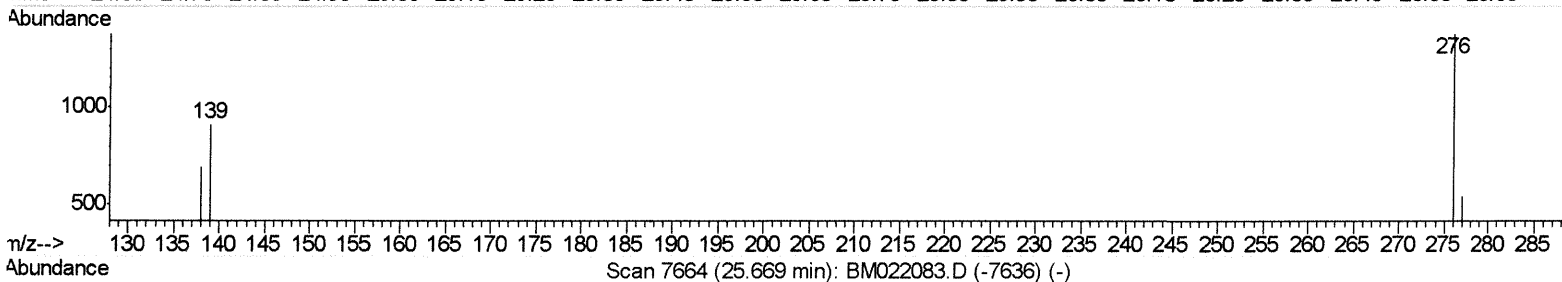
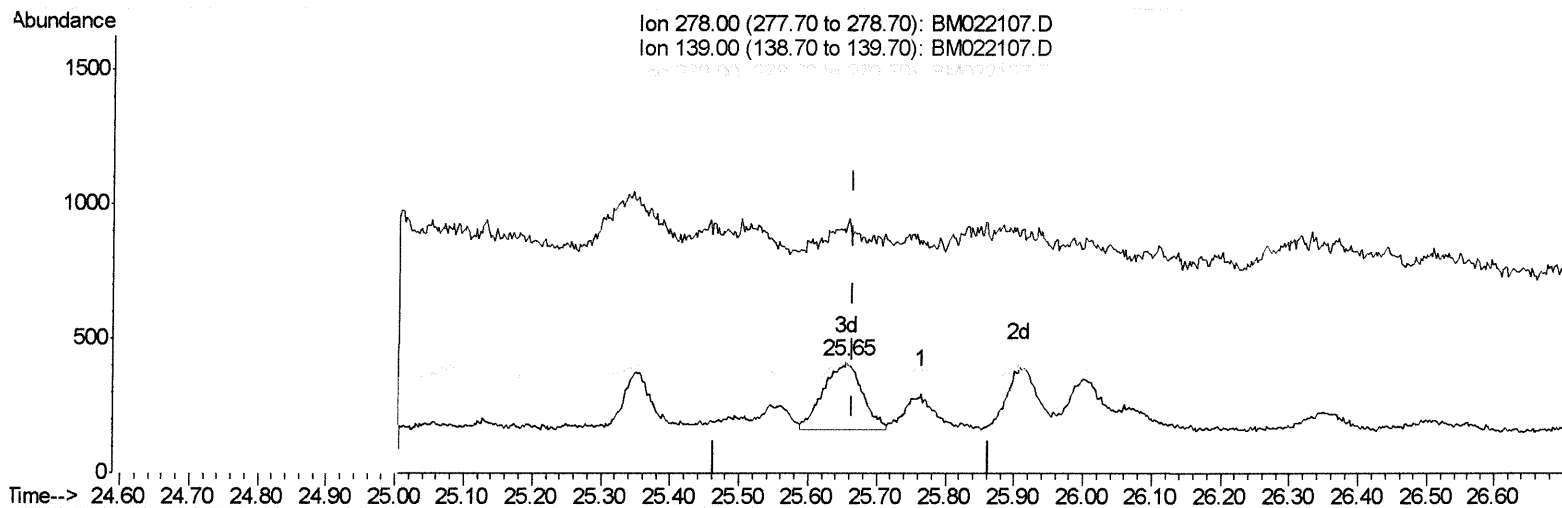
Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 17:58:43 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



(25) Dibenzo(a,h)anthracene

25.655min (-0.009) 0.07ng/ul m *JU* 08/15/19

response 969

| Ion    | Exp%  | Act%    |
|--------|-------|---------|
| 278.00 | 100   | 100     |
| 139.00 | 17.70 | 219.23# |
| 279.00 | 35.40 | 100.00# |
| 0.00   | 0.00  | 0.00    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081219\  
 Data File : BM022107.D  
 Acq On : 14 Aug 2019 14:32  
 Operator : HP/JU  
 Sample : K4183-20DL 10X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AG5DL

Manual Integrations  
 APPROVED

mohammad  
 8/15/2019 5:08:55 PM

Quant Time: Aug 14 18:00:37 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  | 785      | 0.40  | ng/ul   | 0.00     |
| 2) Naphthalene-d8           | 10.40 | 136  | 3220     | 0.40  | ng/ul   | 0.00     |
| 6) Acenaphthene-d10         | 14.27 | 164  | 1725     | 0.40  | ng/ul   | 0.00     |
| 10) Phenanthrene-d10        | 17.02 | 188  | 3836m >  | 0.40  | ng/ul > | -0.01    |
| 16) Chrysene-d12            | 21.23 | 240  | 3921m >  | 0.40  | ng/ul > | 0.00     |
| 20) Perylene-d12            | 23.44 | 264  | 4459m >  | 0.40  | ng/ul > | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 4) 2-Methylnaphthalene-d10  | 12.03 | 152  | 87       | 0.02  | ng/ul   | 0.02     |
| 14) Fluoranthene-d10        | 19.06 | 212  | 264m >   | 0.02  | ng/ul > | 0.00     |
| Target Compounds            |       |      |          |       |         |          |
|                             |       |      |          |       | Qvalue  |          |
| 7) Acenaphthylene           | 13.99 | 152  | 173      | 0.022 | ng/ul#  | 35       |
| 8) Acenaphthene             | 14.33 | 153  | 488      | 0.074 | ng/ul   | 94       |
| 9) Fluorene                 | 15.33 | 166  | 695      | 0.095 | ng/ul#  | 94       |
| 12) Phenanthrene            | 17.07 | 178  | 8475     | 0.759 | ng/ul   | 99       |
| 13) Anthracene              | 17.16 | 178  | 2825m >  | 0.297 | ng/ul > | 99       |
| 15) Fluoranthene            | 19.09 | 202  | 13360m > | 0.894 | ng/ul > | 99       |
| 17) Pyrene                  | 19.45 | 202  | 11353    | 0.705 | ng/ul   | 99       |
| 18) Benzo(a)anthracene      | 21.21 | 228  | 6436m >  | 0.459 | ng/ul > | 99       |
| 19) Chrysene                | 21.26 | 228  | 5899m >  | 0.327 | ng/ul > | 99       |
| 21) Benzo(b)fluoranthene    | 22.78 | 252  | 7319m >  | 0.487 | ng/ul > | 99       |
| 22) Benzo(k)fluoranthene    | 22.81 | 252  | 3251m >  | 0.191 | ng/ul > | 99       |
| 23) Benzo(a)pyrene          | 23.34 | 252  | 5931m >  | 0.388 | ng/ul > | 99       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.65 | 276  | 3883     | 0.213 | ng/ul#  | 99       |
| 25) Dibenzo(a,h)anthracene  | 25.65 | 278  | 969m >   | 0.066 | ng/ul > | 99       |
| 26) Benzo(g,h,i)perylene    | 26.33 | 276  | 3393     | 0.206 | ng/ul#  | 52       |

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