# LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003276.D
Acq On : 14 Sep 2020 19:31
Operator : CG/JU
Sample : L3993-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** PAV-B38-091120-0-10

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5.258 | 396 | 403 | 415 | rBV | 1612135 | 2458059 | 39.06% | 4.499% |
| 2 | 6.834 | 664 | 671 | 686 | rBV | 1425596 | 2450578 | 38.94% | 4.485% |
| 3 | 7.252 | 737 | 742 | 753 | rBV | 33927 | 66990 | 1.06% | 0.123% |
| 4 | 7.640 | 799 | 808 | 818 | rBV | 624280 | 987215 | 15.69% | 1.807% |
| 5 | 8.787 | 995 | 1003 | 1022 | rBV | 1035283 | 1813245 | 28.82% | 3.319% |
| 6 | 10.416 | 1272 | 1280 | 1299 | rBV | 769269 | 1450194 | 23.05% | 2.654% |
| 7 | 12.898 | 1695 | 1702 | 1716 | rBV | 3044940 | 4838004 | 76.89% | 8.854% |
| 8 | 13.745 | 1840 | 1846 | 1857 | rBV | 271159 | 435930 | 6.93% | 0.798% |
| 9 | 14.134 | 1905 | 1912 | 1922 | rBV3 | 28444 | 89089 | 1.42% | 0.163% |
| 10 | 14.281 | 1931 | 1937 | 1944 | rBV | 1234729 | 1892257 | 30.07% | 3.463% |
| 11 | 14.345 | 1944 | 1948 | 1956 | rVB | 71938 | 113205 | 1.80% | 0.207% |
| 12 | 14.687 | 2001 | 2006 | 2014 | rBV2 | 37549 | 64229 | 1.02% | 0.118% |
| 13 | 15.339 | 2111 | 2117 | 2122 | rBV2 | 66695 | 106609 | 1.69% | 0.195% |
| 14 | 15.634 | 2162 | 2167 | 2178 | rVB | 37144 | 70371 | 1.12% | 0.129% |
| 15 | 15.781 | 2186 | 2192 | 2201 | rBV | 2272213 | 3389129 | 53.86% | 6.203% |
| 16 | 16.351 | 2278 | 2289 | 2294 | rBV5 | 31026 | 93528 | 1.49% | 0.171% |
| 17 | 16.581 | 2320 | 2328 | 2331 | rBV3 | 33920 | 64318 | 1.02% | 0.118% |
| 18 | 16.775 | 2357 | 2361 | 2367 | rVV2 | 37886 | 86582 | 1.38% | 0.158% |
| 19 | 16.857 | 2371 | 2375 | 2384 | rVB | 51173 | 103076 | 1.64% | 0.189% |
| 20 | 17.039 | 2400 | 2406 | 2409 | rBV | 1463606 | 2087089 | 33.17% | 3.820% |
| 21 | 17.081 | 2409 | 2413 | 2419 | rVB | 1007506 | 1436245 | 22.82% | 2.629% |
| 22 | 17.169 | 2424 | 2428 | 2435 | rVB | 280281 | 418235 | 6.65% | 0.765% |
| 23 | 17.916 | 2550 | 2555 | 2558 | rBV | 140493 | 195499 | 3.11% | 0.358% |
| 24 | 17.957 | 2558 | 2562 | 2569 | rVV | 257760 | 371559 | 5.90% | 0.680% |
| 25 | 18.039 | 2572 | 2576 | 2581 | rVV | 121064 | 171097 | 2.72% | 0.313% |
| 26 | 18.098 | 2581 | 2586 | 2591 | rVV2 | 259347 | 484987 | 7.71% | 0.888% |
| 27 | 18.139 | 2591 | 2593 | 2600 | rVB | 119292 | 136096 | 2.16% | 0.249% |
| 28 | 18.398 | 2633 | 2637 | 2641 | rBV | 123285 | 154708 | 2.46% | 0.283% |
| 29 | 18.804 | 2702 | 2706 | 2711 | rBV | 96565 | 155926 | 2.48% | 0.285% |
| 30 | 18.939 | 2726 | 2729 | 2738 | rVB2 | 86496 | 149090 | 2.37% | 0.273% |
| 31 | 19.057 | 2744 | 2749 | 2755 | rBV | 1995626 | 2694498 | 42.82% | 4.931% |
| 32 | 19.322 | 2790 | 2794 | 2800 | rVB | 296563 | 394240 | 6.27% | 0.722% |
| 33 | 19.410 | 2800 | 2809 | 2818 | rVV | 1872619 | 2990860 | 47.53% | 5.474% |
| 34 | 19.486 | 2818 | 2822 | 2829 | rVB3 | 94977 | 171760 | 2.73% | 0.314% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003276.D
Acq On : 14 Sep 2020 19:31
Operator : CG/JU
Sample : L3993-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** PAV-B38-091120-0-10

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 19.616 | 2836 | 2844 | 2855 | rVB | 4735304 | 6292453 | 100.00% | 11.516% |
| 36 | 19.739 | 2859 | 2865 | 2870 | rBV3 | 119430 | 290226 | 4.61% | 0.531% |
| 37 | 19.863 | 2883 | 2886 | 2887 | rBV2 | 75172 | 79148 | 1.26% | 0.145% |
| 38 | 19.898 | 2889 | 2892 | 2896 | rVB | 267935 | 332542 | 5.28% | 0.609% |
| 39 | 19.992 | 2905 | 2908 | 2912 | rVB | 188401 | 220344 | 3.50% | 0.403% |
| 40 | 20.051 | 2914 | 2918 | 2922 | rVB2 | 162610 | 245761 | 3.91% | 0.450% |
| 41 | 20.186 | 2938 | 2941 | 2945 | rBV | 91611 | 103669 | 1.65% | 0.190% |
| 42 | 20.233 | 2946 | 2949 | 2953 | rVB3 | 96638 | 118502 | 1.88% | 0.217% |
| 43 | 20.827 | 3047 | 3050 | 3052 | rBV | 116197 | 118048 | 1.88% | 0.216% |
| 44 | 20.863 | 3052 | 3056 | 3062 | rVB2 | 636702 | 870635 | 13.84% | 1.593% |
| 45 | 21.057 | 3087 | 3089 | 3092 | rVB | 109586 | 103801 | 1.65% | 0.190% |
| 46 | 21.133 | 3095 | 3102 | 3106 | rVV2 | 1878298 | 3548030 | 56.39% | 6.493% |
| 47 | 21.169 | 3106 | 3108 | 3119 | rVB | 875228 | 1027093 | 16.32% | 1.880% |
| 48 | 21.286 | 3125 | 3128 | 3134 | rBV2 | 228865 | 332627 | 5.29% | 0.609% |
| 49 | 21.980 | 3243 | 3246 | 3257 | rVB2 | 366557 | 578453 | 9.19% | 1.059% |
| 50 | 22.698 | 3362 | 3368 | 3373 | rBV | 850099 | 1930360 | 30.68% | 3.533% |
| 51 | 23.174 | 3444 | 3449 | 3457 | rVB | 501551 | 987755 | 15.70% | 1.808% |
| 52 | 23.268 | 3459 | 3465 | 3473 | rBV | 820431 | 1508726 | 23.98% | 2.761% |
| 53 | 23.363 | 3475 | 3481 | 3487 | rBV2 | 1130083 | 2190276 | 34.81% | 4.009% |
| 54 | 25.633 | 3861 | 3867 | 3877 | rVB2 | 441083 | 1177527 | 18.71% | 2.155% |

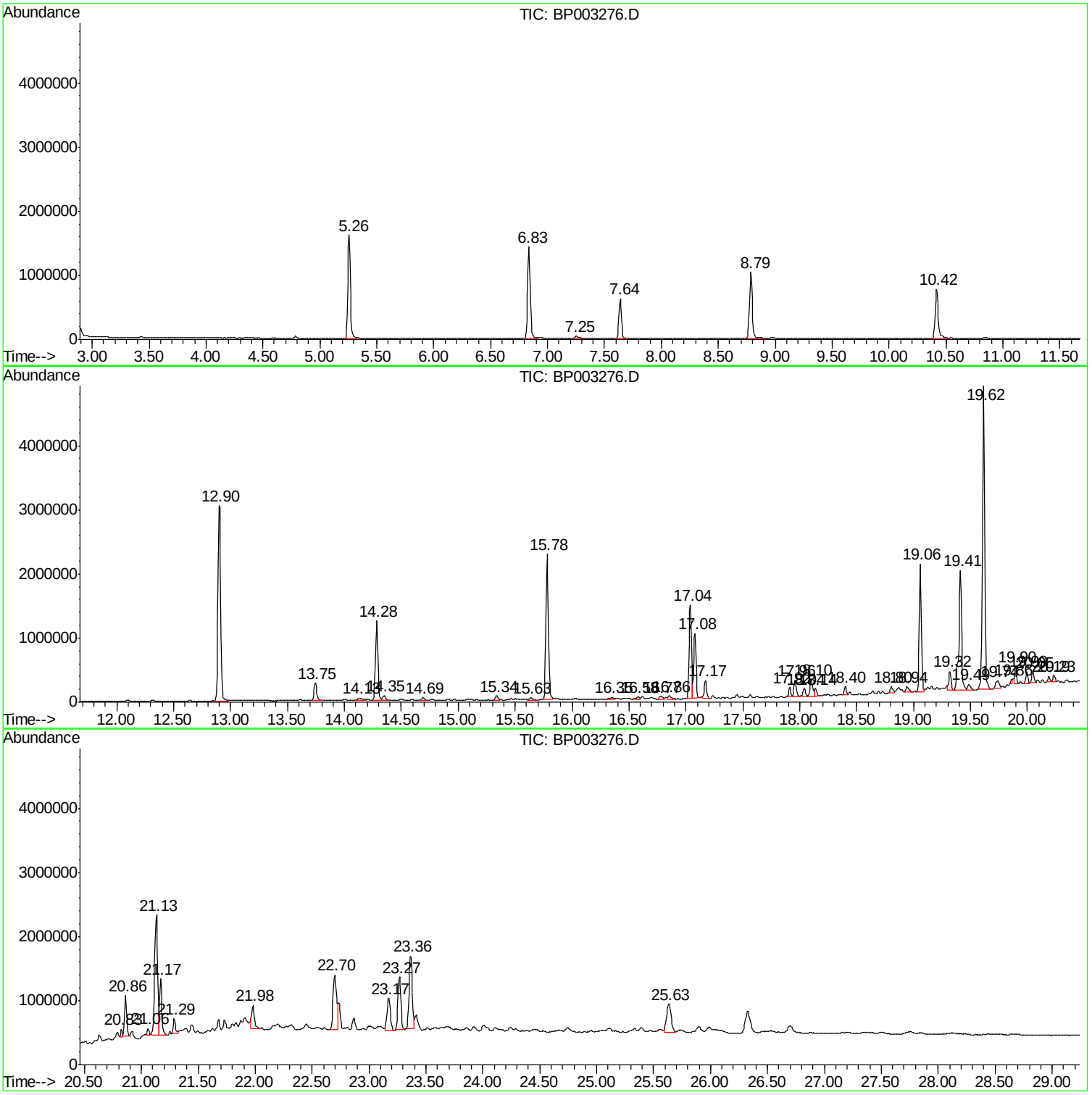
Sum of corrected areas: 54640473

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003276.D
Acq On : 14 Sep 2020 19:31
Operator : CG/JU
Sample : L3993-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
BNA_P
**ClientSampleId :**
PAV-B38-091120-0-10

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003276.D
Acq On : 14 Sep 2020 19:31
Operator : CG/JU
Sample : L3993-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** PAV-B38-091120-0-10

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

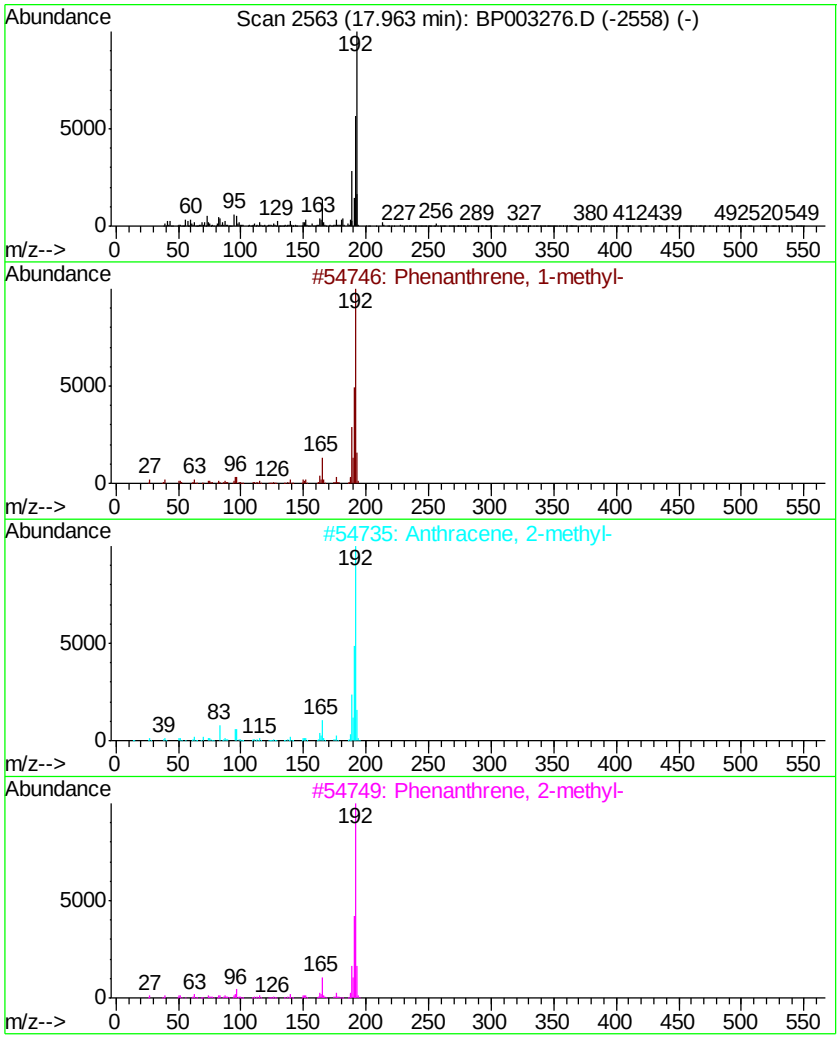
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

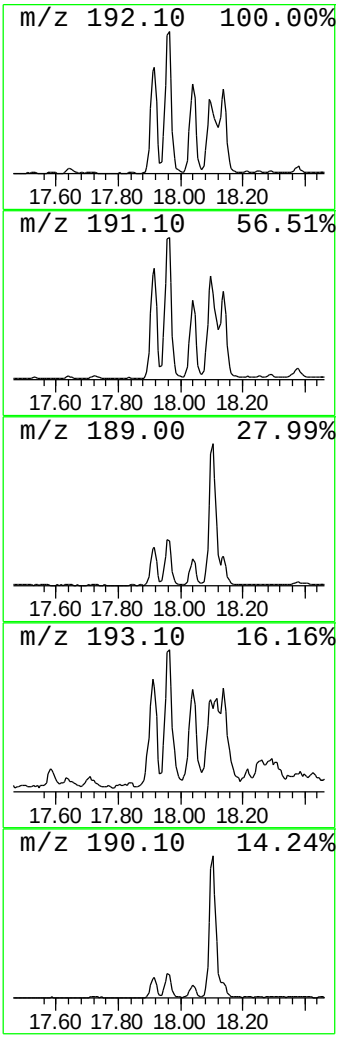
**********

Peak Number 1 Phenanthrene, 1-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.96 | 3.56 ng | 371559 | Phenanthrene-d10 | 17.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 97 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 4 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 95 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 94 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003276.D
Acq On : 14 Sep 2020 19:31
Operator : CG/JU
Sample : L3993-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** PAV-B38-091120-0-10

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

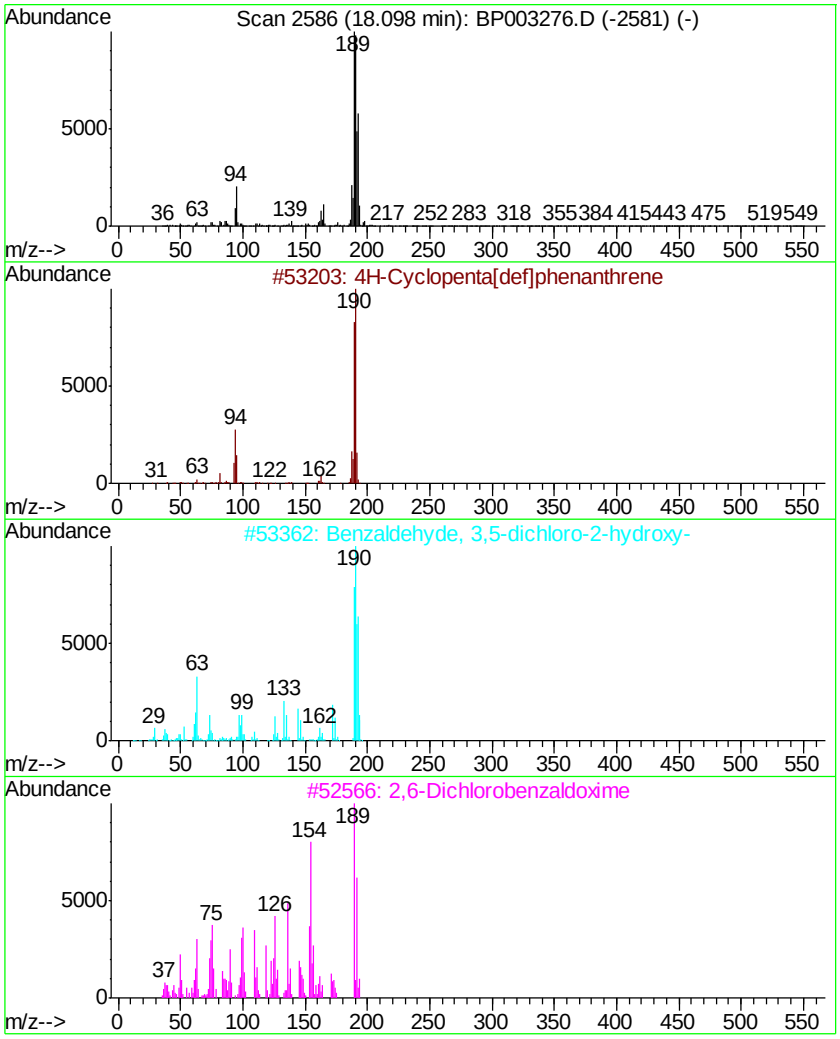
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

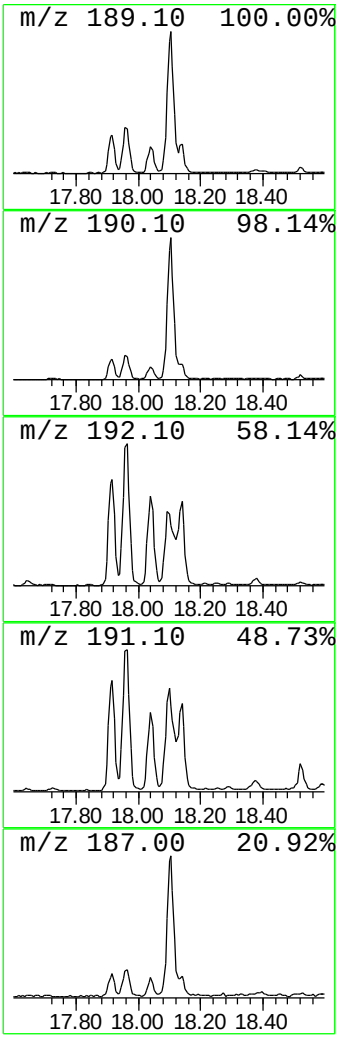
**********

Peak Number 2 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.10 | 4.65 ng | 484987 | Phenanthrene-d10 | 17.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 92 |
| 2 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 50 |
| 3 | 2,6-Dichlorobenzaldoxime | 189 | C7H5Cl2NO | 025185-95-9 | 30 |
| 4 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 25 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 25 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003276.D
Acq On : 14 Sep 2020 19:31
Operator : CG/JU
Sample : L3993-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** PAV-B38-091120-0-10

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

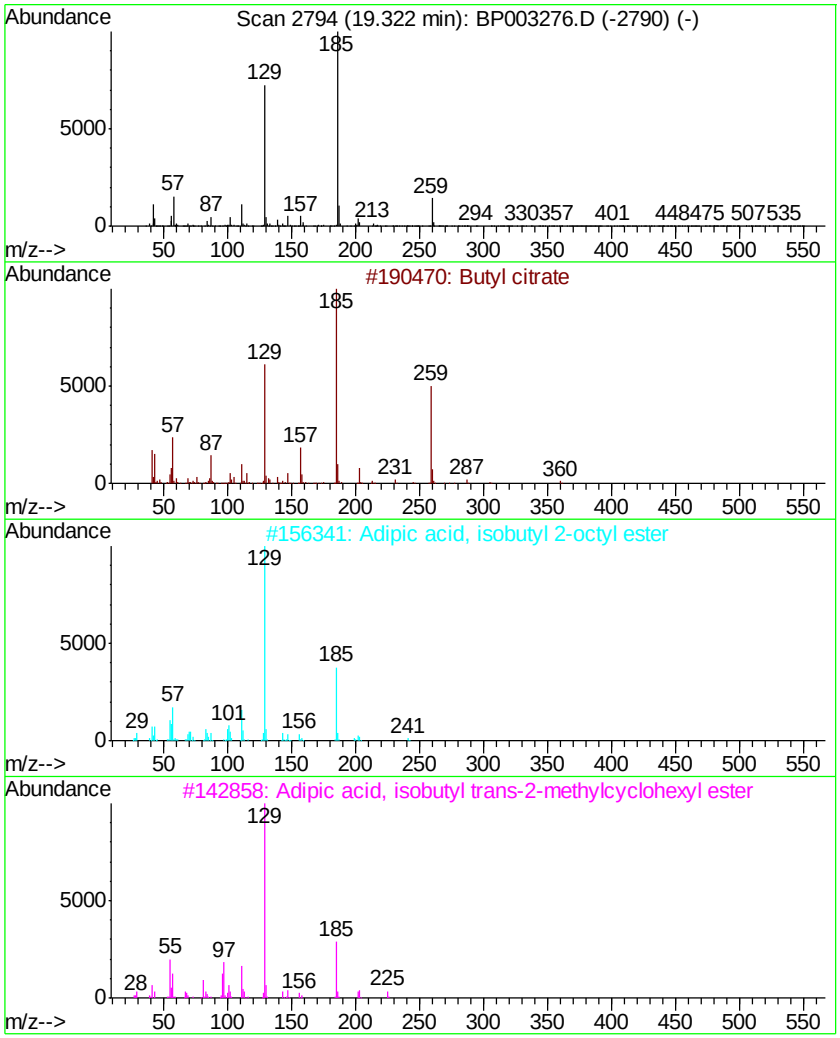
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

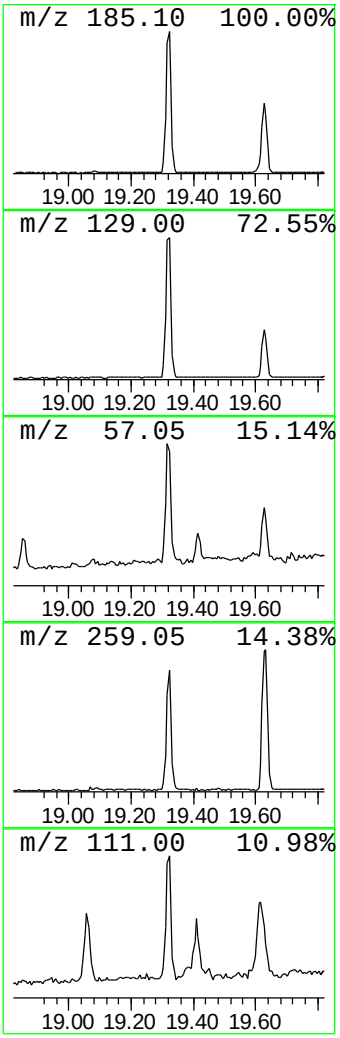
**********

Peak Number 3 Butyl citrate Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 19.32 | 2.22 ng | 394240 | Chrysene-d12 | 21.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butyl citrate | 360 | C18H32O7 | 000077-94-1 | 94 |
| 2 | Adipic acid, isobutyl 2-octyl ester | 314 | C18H34O4 | 1000324-44-5 | 56 |
| 3 | Adipic acid, isobutyl trans-2-me... | 298 | C17H30O4 | 1000324-74-5 | 56 |
| 4 | Adipic acid, isobutyl 2-pentyl e... | 272 | C15H28O4 | 1000324-15-6 | 56 |
| 5 | Adipic acid, 3,3-dimethylbut-2-y... | 286 | C16H30O4 | 1000353-66-7 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003276.D
Acq On : 14 Sep 2020 19:31
Operator : CG/JU
Sample : L3993-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** PAV-B38-091120-0-10

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

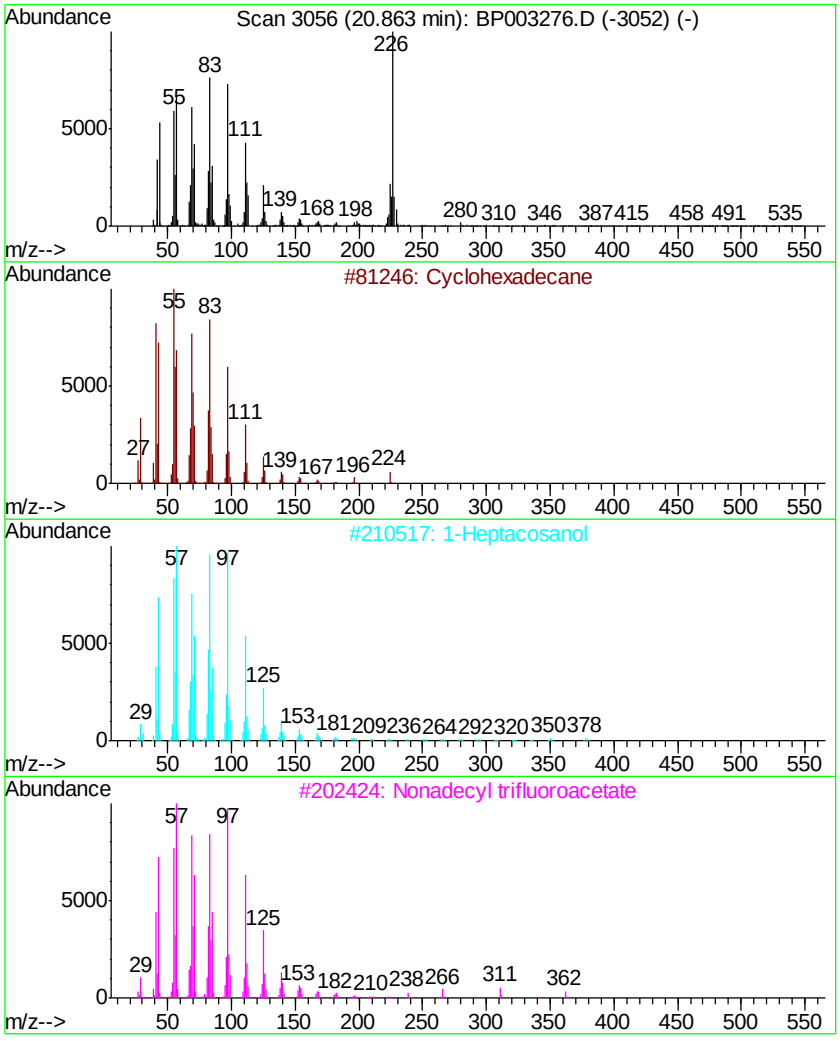
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

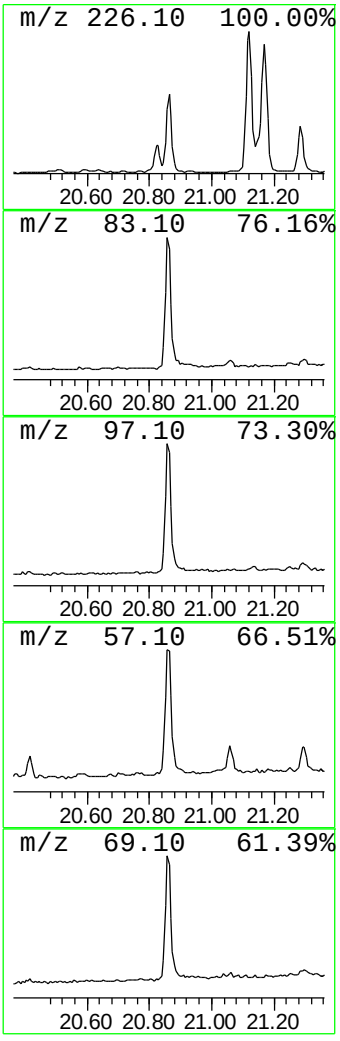
**********

Peak Number 4 Cyclohexadecane Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 20.86 | 4.91 ng | 870635 | Chrysene-d12 | 21.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexadecane | 224 | C16H32 | 000295-65-8 | 93 |
| 2 | 1-Heptacosanol | 396 | C27H56O | 002004-39-9 | 93 |
| 3 | Nonadecyl trifluoroacetate | 380 | C21H39F3O2 | 1000351-76-3 | 91 |
| 4 | Cycloeicosane | 280 | C20H40 | 000296-56-0 | 91 |
| 5 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003276.D
Acq On : 14 Sep 2020 19:31
Operator : CG/JU
Sample : L3993-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** PAV-B38-091120-0-10

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

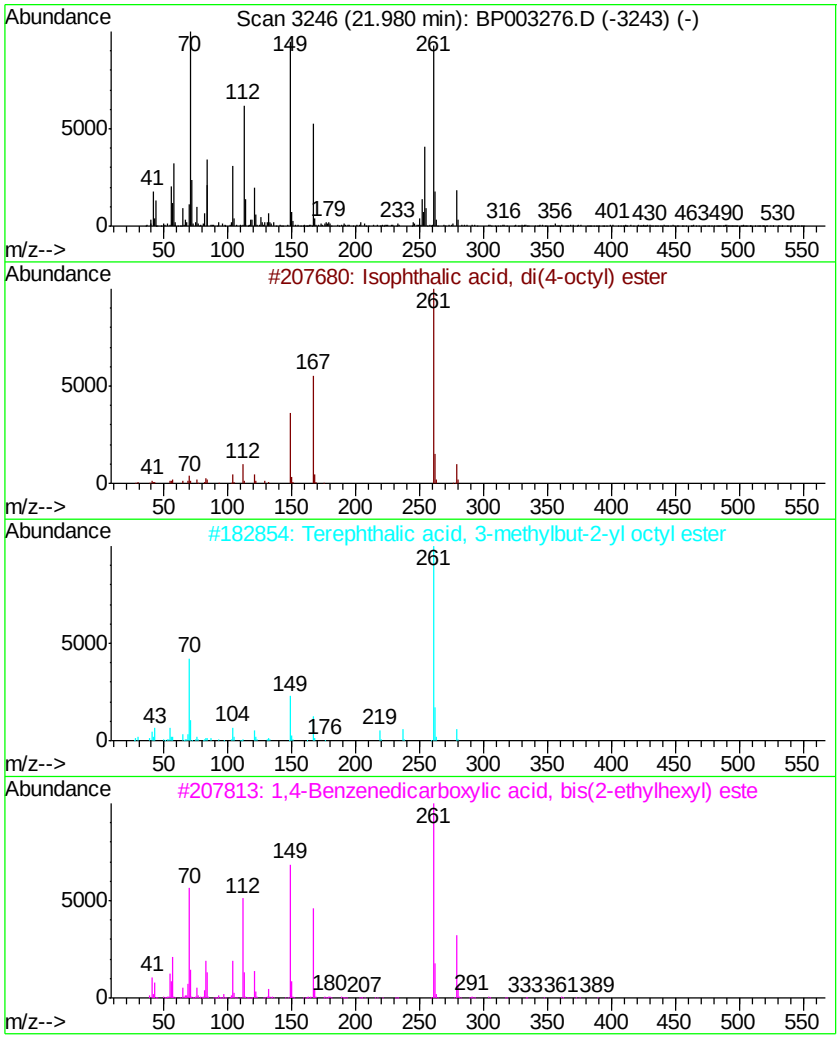
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

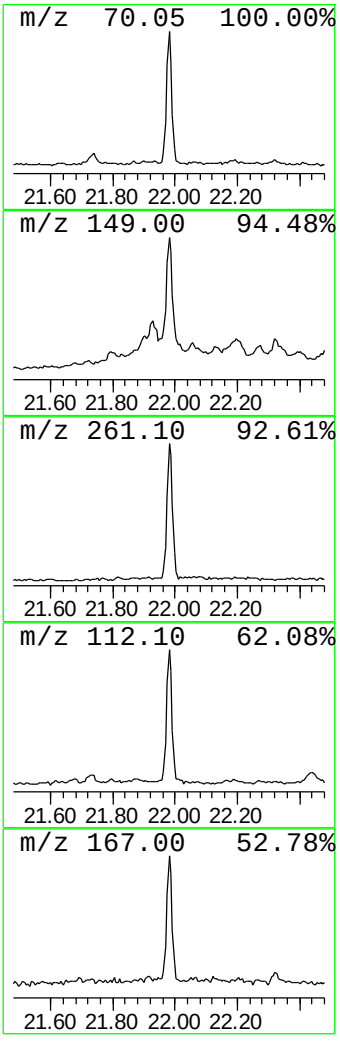
**********

Peak Number 5 Isophthalic acid, di(4-octy... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.98 | 3.26 ng | 578453 | Chrysene-d12 | 21.13 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isophthalic acid, di(4-octyl) ester | 390 | C24H38O4 | 1000344-04-3 | 68 |
| 2 | Terephthalic acid, 3-methylbut-2... | 348 | C21H32O4 | 1000356-27-6 | 53 |
| 3 | 1,4-Benzenedicarboxylic acid, bi... | 390 | C24H38O4 | 006422-86-2 | 38 |
| 4 | Di-n-octyl phthalate | 390 | C24H38O4 | 000117-84-0 | 38 |
| 5 | Terephthalic acid, dodec-2-enyl ... | 444 | C28H44O4 | 1000356-30-9 | 35 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP091420\
Data File : BP003276.D
Acq On : 14 Sep 2020 19:31
Operator : CG/JU
Sample : L3993-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** PAV-B38-091120-0-10

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

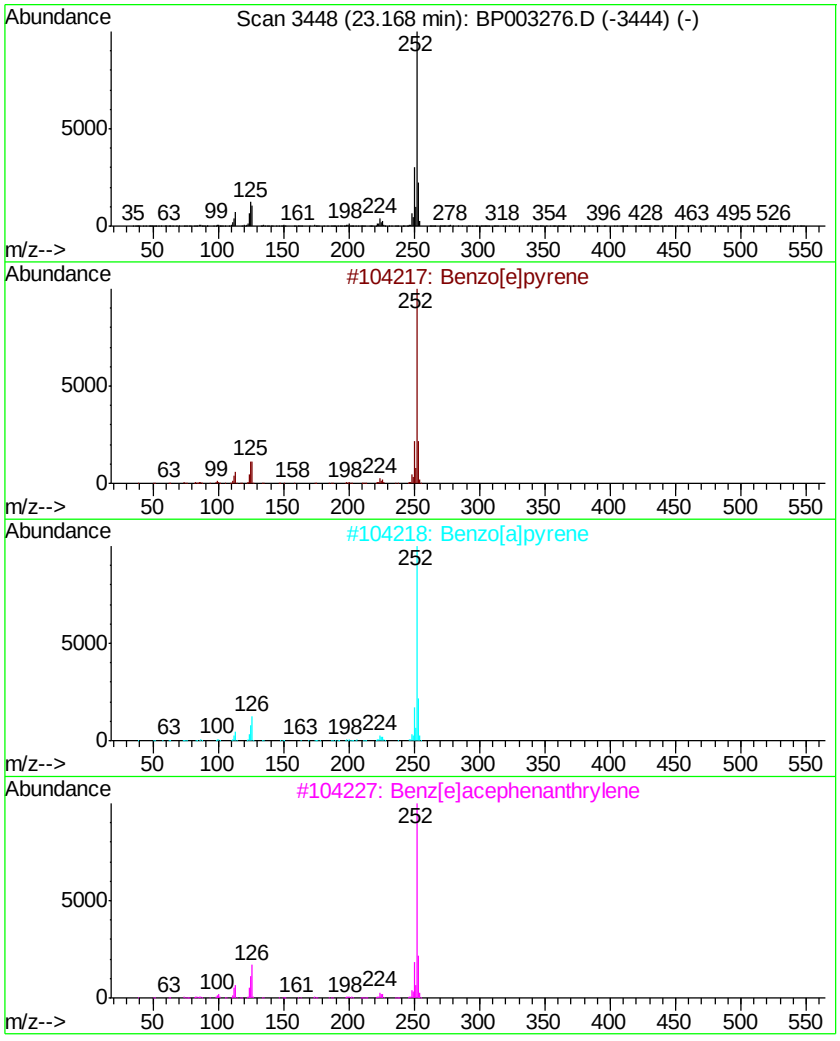
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

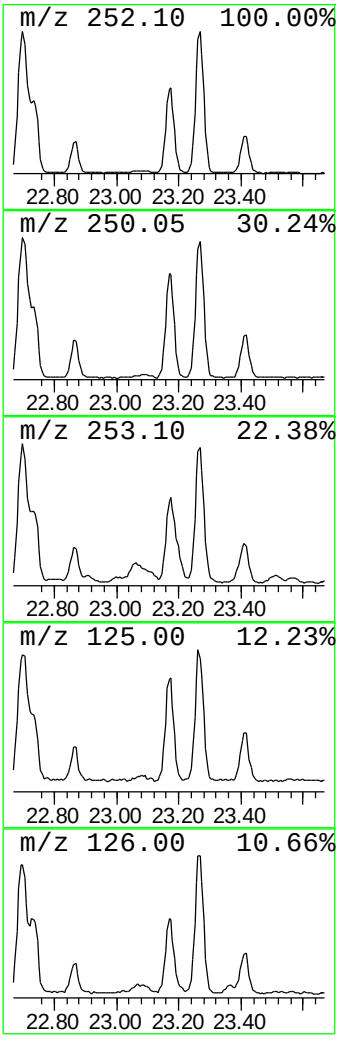
**********

Peak Number 6 Benzo[e]pyrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.17 | 9.02 ng | 987755 | Perylene-d12 | 23.36 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 96 |
| 3 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 94 |
| 4 | Perylene | 252 | C20H12 | 000198-55-0 | 90 |
| 5 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 89 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_P\DATA\BP091420\
Data File : BP003276.D
Acq On : 14 Sep 2020 19:31
Operator : CG/JU
Sample : L3993-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

**Instrument :** BNA_P
**ClientSampleId :** PAV-B38-091120-0-10

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_P\METHODS\8270-BP082420.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Phenanthrene, 1-m... | 17.96 | 3.6 | ng | 371559 | 4 | 17.04 | 2087090 | 20.0 |
| 4H-Cyclopenta[def... | 18.10 | 4.7 | ng | 484987 | 4 | 17.04 | 2087090 | 20.0 |
| Butyl citrate | 19.32 | 2.2 | ng | 394240 | 5 | 21.13 | 3548030 | 20.0 |
| Cyclohexadecane | 20.86 | 4.9 | ng | 870635 | 5 | 21.13 | 3548030 | 20.0 |
| Isophthalic acid,... | 21.98 | 3.3 | ng | 578453 | 5 | 21.13 | 3548030 | 20.0 |
| Benzo[e]pyrene | 23.17 | 9.0 | ng | 987755 | 6 | 23.36 | 2190280 | 20.0 |