Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100421\
Data File : BG050440.D
Acq On : 5 Oct 2021 10:47
Operator : CG/JU
Sample : M3879-11MS
Misc :
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Oct 05 11:25:25 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\SFAM-EPA-BG093021.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Sep 30 16:27:24 2021
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
EW411MS

**Manual Integrations APPROVED**
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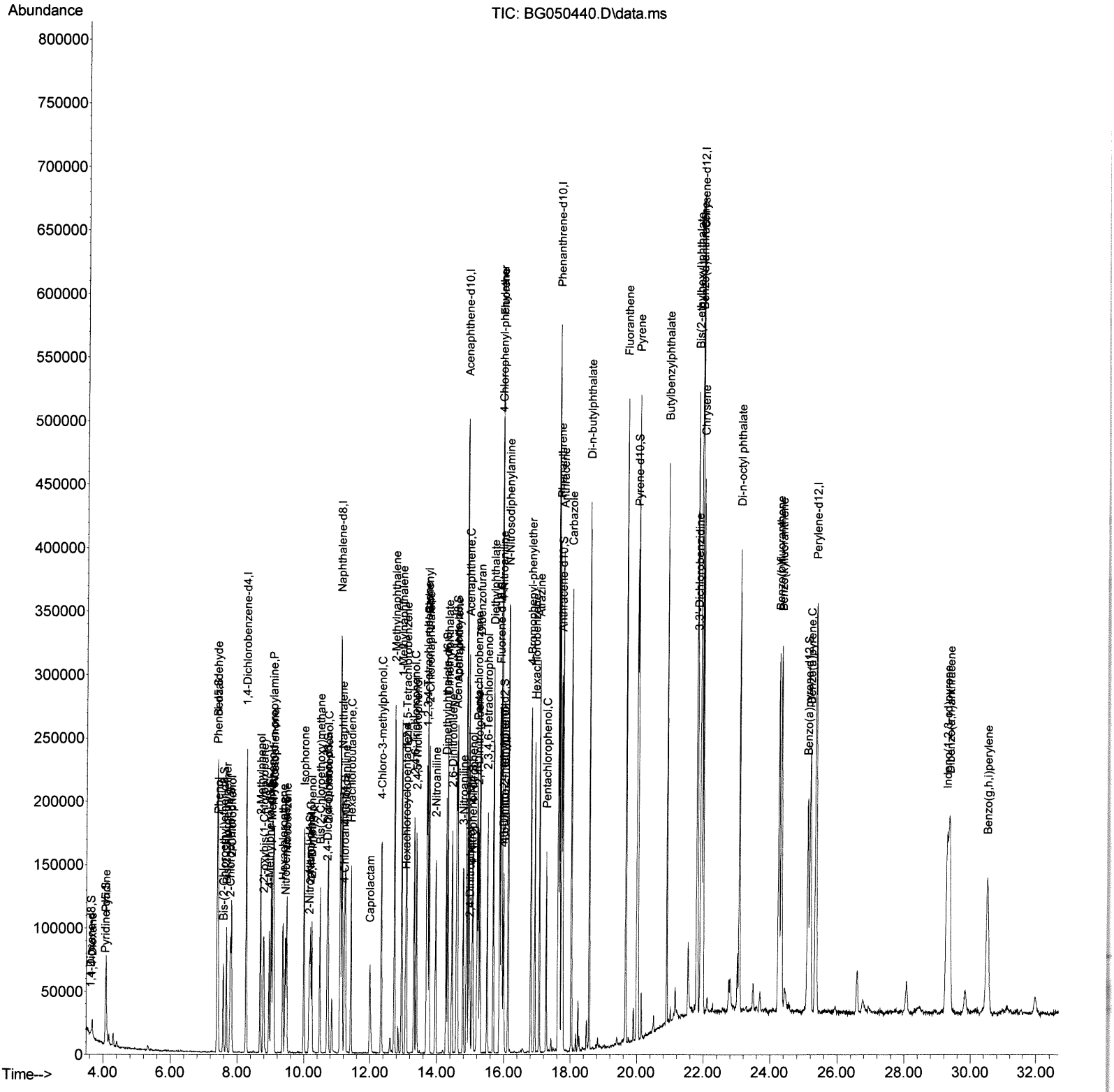
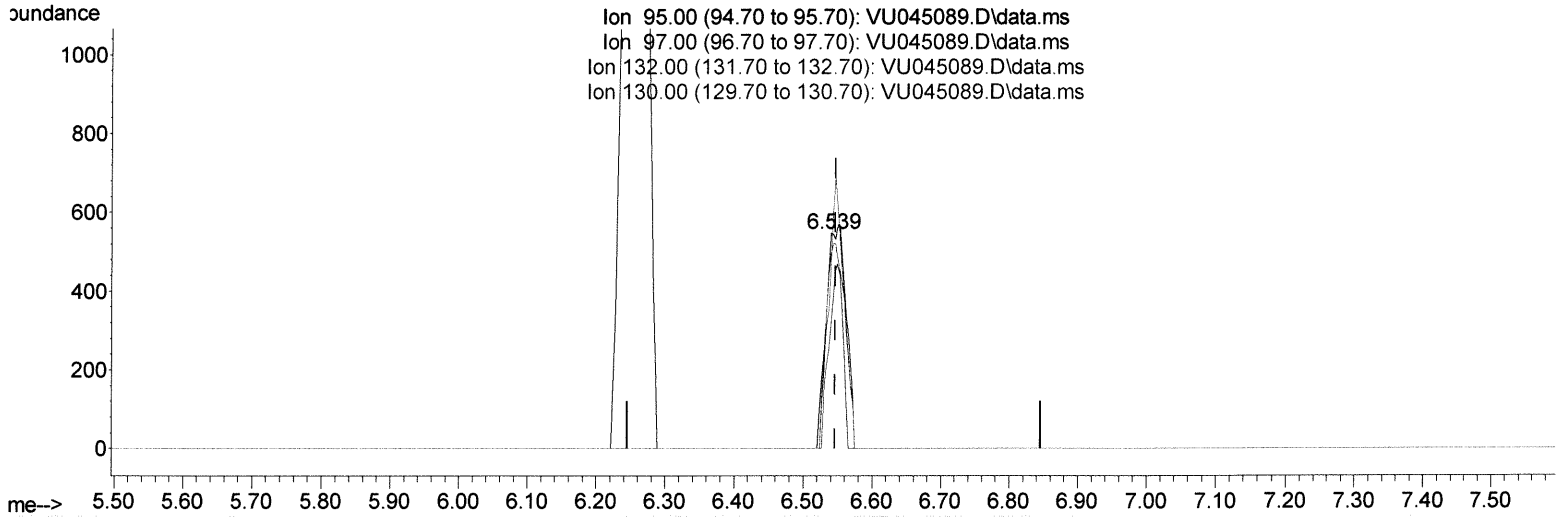


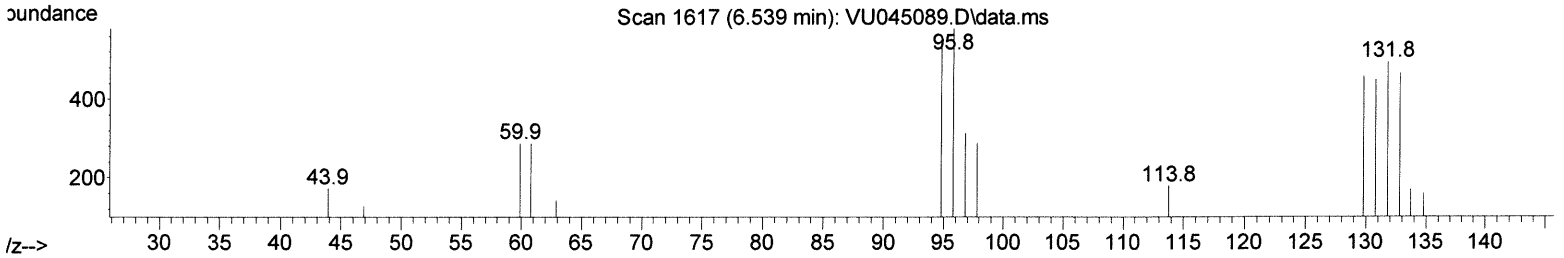
Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100421\
Data File : VU045089.D
Acq On : 04 Oct 2021 12:29
Operator : SY/MD
Sample : M3997-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

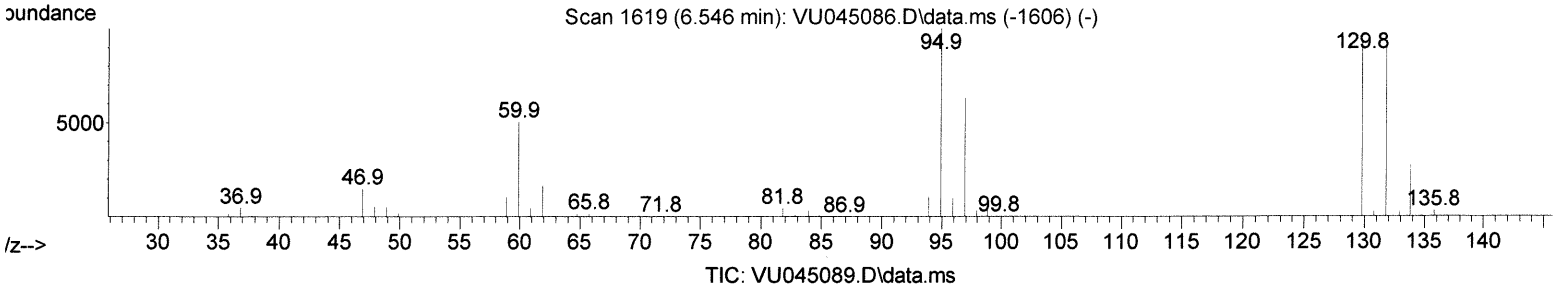
Quant Time: Oct 05 02:43:37 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 05 02:41:56 2021
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
EW411MS

**Manual Integrations APPROVED**
mohammad
10/8/2021 8:31:08 AM




TIC: VU045089.D\data.ms

**(34) Trichloroethene (T)**

**6.539min (-0.006) 0.25 ug/L**

**response 572**

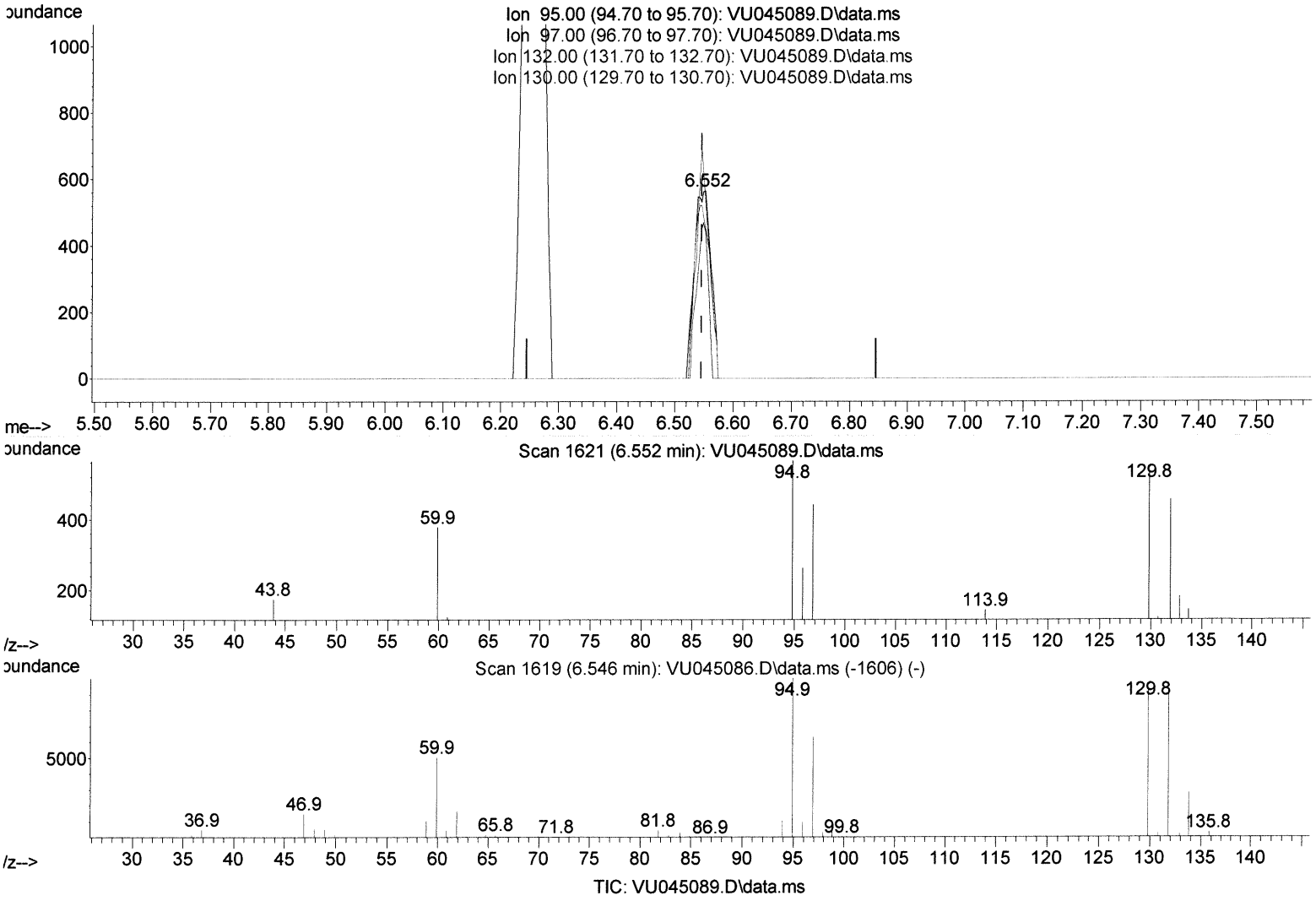
| Ion | Exp% | Act% |
|---|---|---|
| 95.00 | 100.00 | 100.00 |
| 97.00 | 63.40 | 57.04 |
| 132.00 | 89.90 | 90.13 |
| 130.00 | 92.90 | 83.55 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100421\
Data File : VU045089.D
Acq On : 04 Oct 2021 12:29
Operator : SY/MD
Sample : M3997-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 05 02:43:37 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Oct 05 02:41:56 2021
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
EW411MS

**Manual Integrations APPROVED**
mohammad
10/8/2021 8:31:08 AM




(34) Trichloroethene (T)

6.552min (+ 0.006) 0.51 ug/L m

response 1150

JC 10/08/21

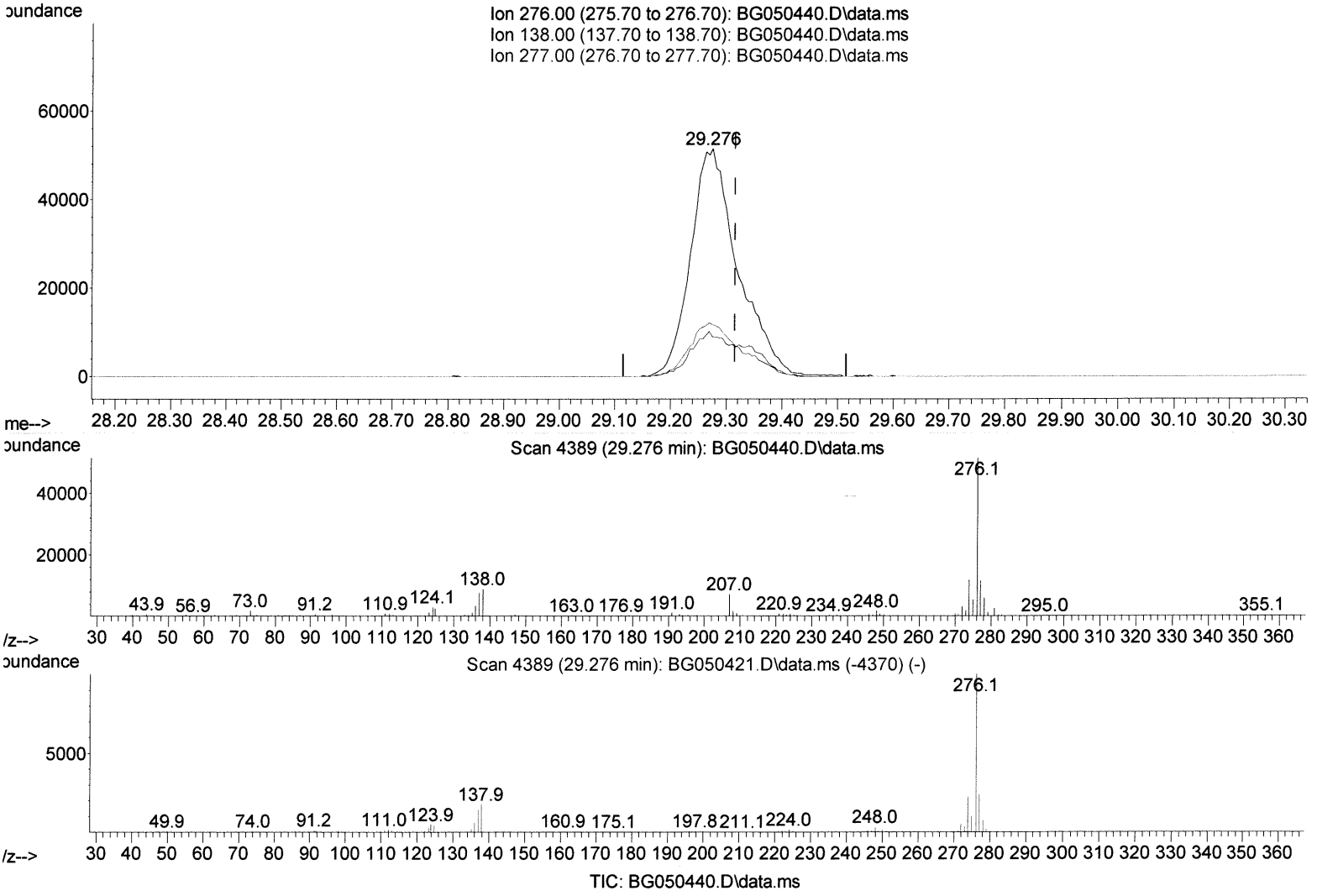
| Ion | Exp% | Act% |
|---|---|---|
| 95.00 | 100.00 | 100.00 |
| 97.00 | 63.40 | 78.23 |
| 132.00 | 89.90 | 80.53 |
| 130.00 | 92.90 | 94.69 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100421\
Data File : BG050440.D
Acq On : 5 Oct 2021 10:47
Operator : CG/JU
Sample : M3879-11MS
Misc :
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Oct 05 11:25:25 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\SFAM-EPA-BG093021.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Sep 30 16:27:24 2021
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
EW411MS

**Manual Integrations APPROVED**
mohammad
10/8/2021 8:31:08 AM




(94) Indeno(1,2,3-cd)pyrene

29.276min (-0.041) 12.33 ng/ul

response 267931

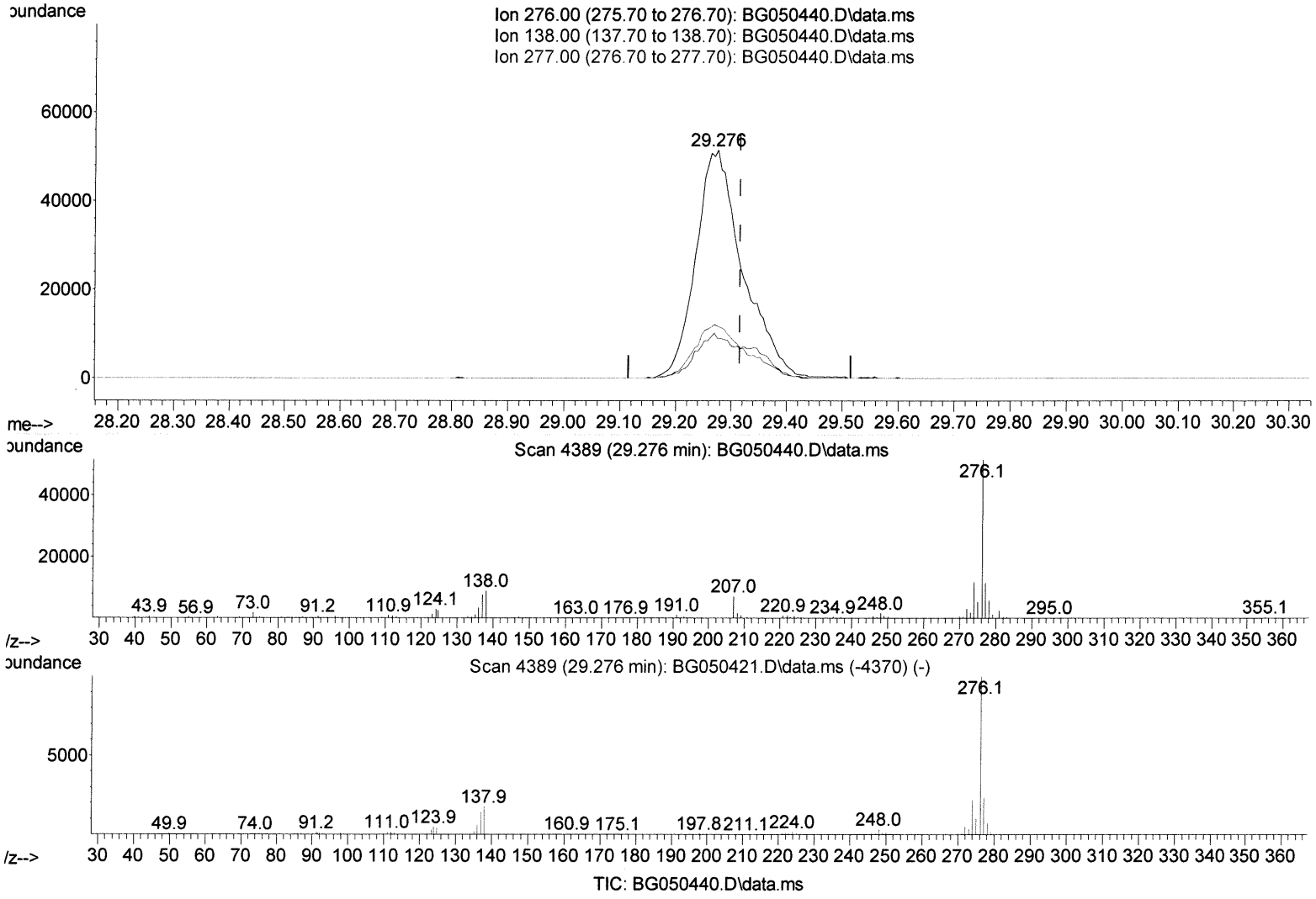
| Ion | Exp% | Act% |
|---|---|---|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 15.50 | 17.31 |
| 277.00 | 23.10 | 22.72 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100421\
Data File : BG050440.D
Acq On : 5 Oct 2021 10:47
Operator : CG/JU
Sample : M3879-11MS
Misc :
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Oct 05 11:25:25 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\SFAM-EPA-BG093021.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Sep 30 16:27:24 2021
Response via : Initial Calibration

**Instrument :**
BNA_G
**ClientSampleId :**
EW411MS

**Manual Integrations APPROVED**
mohammad
10/8/2021 8:31:08 AM




(94) Indeno(1,2,3-cd)pyrene

29.276min (-0.041) 13.95 ng/ul m JH 10/08/21

response 303035

| Ion | Exp% | Act% |
|---|---|---|
| 276.00 | 100.00 | 100.00 |
| 138.00 | 15.50 | 17.31 |
| 277.00 | 23.10 | 22.72 |
| 0.00 | 0.00 | 0.00 |

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG100421\
Data File : BG050440.D
Acq On : 5 Oct 2021 10:47
Operator : CG/JU
Sample : M3879-11MS
Misc :
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Oct 05 11:25:25 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\SFAM-EPA-BG093021.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Sep 30 16:27:24 2021
Response via : Initial Calibration

**Instrument :** BNA_G
**ClientSampleId :** EW411MS

**Manual Integrations APPROVED**
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10/8/2021 8:31:08 AM

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) 1,4-Dichlorobenzene-d4 | 8.271 | 152 | 64285 | 20.000 | ng/ul | 0.00 |
| 20) Naphthalene-d8 | 11.091 | 136 | 271765 | 20.000 | ng/ul | -0.01 |
| 38) Acenaphthene-d10 | 14.887 | 164 | 175772 | 20.000 | ng/ul | 0.00 |
| 64) Phenanthrene-d10 | 17.630 | 188 | 369120 | 20.000 | ng/ul | 0.00 |
| 79) Chrysene-d12 | 21.931 | 240 | 332339 | 20.000 | ng/ul | -0.02 |
| 88) Perylene-d12 | 25.351 | 264 | 332965 | 20.000 | ng/ul | -0.03 |
| System Monitoring Compounds | | | | | | |
| 3) 1,4-Dioxane-d8 | 3.641 | 96 | 2670 | 1.526 | ng/uL | 0.00 |
| 4) Pyridine-d5 | 4.064 | 84 | 17019 | 3.264 | ng/ul | 0.00 |
| 7) Phenol-d5 | 7.395 | 99 | 53657 | 9.553 | ng/ul | -0.01 |
| 9) Bis-(2-Chloroethyl)eth... | 7.583 | 67 | 36476 | 10.319 | ng/ul | 0.00 |
| 11) 2-Chlorophenol-d4 | 7.789 | 132 | 37810 | 9.608 | ng/ul | -0.01 |
| 15) 4-Methylphenol-d8 | 8.958 | 113 | 36225 | 8.521 | ng/ul | 0.00 |
| 21) Nitrobenzene-d5 | 9.434 | 128 | 20519 | 10.793 | ng/ul | -0.01 |
| 24) 2-Nitrophenol-d4 | 10.163 | 143 | 22682 | 11.116 | ng/ul | -0.01 |
| 28) 2,4-Dichlorophenol-d3 | 10.697 | 165 | 38657 | 9.594 | ng/ul | -0.01 |
| 31) 4-Chloroaniline-d4 | 11.214 | 131 | 47901 | 8.322 | ng/ul | -0.01 |
| 46) Dimethylphthalate-d6 | 14.276 | 166 | 127520 | 10.601 | ng/ul | -0.02 |
| 49) Acenaphthylene-d8 | 14.581 | 160 | 156828 | 10.381 | ng/ul | -0.01 |
| 54) 4-Nitrophenol-d4 | 15.045 | 143 | 17542 | 7.571 | ng/ul | -0.01 |
| 60) Fluorene-d10 | 15.874 | 176 | 111470 | 10.285 | ng/ul | -0.01 |
| 65) 4,6-Dinitro-2-methylph... | 15.979 | 200 | 16344 | 8.877 | ng/ul | 0.00 |
| 73) Anthracene-d10 | 17.724 | 188 | 172581 | 11.067 | ng/ul | -0.01 |
| 81) Pyrene-d10 | 19.998 | 212 | 204184 | 11.554 | ng/ul | -0.01 |
| 92) Benzo(a)pyrene-d12 | 25.110 | 264 | 177214 | 10.585 | ng/ul | -0.03 |
| Target Compounds | | | | | | Qvalue |
| 2) 1,4-Dioxane | 3.676 | 88 | 8410 | 3.973 | ng/uL# | 89 |
| 5) Pyridine | 4.082 | 79 | 39236 | 7.429 | ng/ul | 97 |
| 6) Benzaldehyde | 7.401 | 77 | 49900 | 13.471 | ng/ul | 97 |
| 8) Phenol | 7.425 | 94 | 74276 | 12.902 | ng/ul | 98 |
| 10) Bis(2-Chloroethyl)ether | 7.677 | 93 | 54644 | 12.655 | ng/ul | 98 |
| 12) 2-Chlorophenol | 7.824 | 128 | 49029 | 12.177 | ng/ul | 97 |
| 13) 2-Methylphenol | 8.694 | 108 | 50193 | 11.831 | ng/ul | 100 |
| 14) 2,2'-oxybis(1-Chloropr... | 8.788 | 45 | 89944 | 13.883 | ng/ul | 97 |
| 16) Acetophenone | 9.093 | 105 | 86714 | 12.838 | ng/ul | 99 |
| 17) N-Nitroso-di-n-propyla... | 9.070 | 70 | 53106 | 13.083 | ng/ul | 95 |
| 18) 4-Methylphenol | 9.023 | 108 | 54504 | 12.131 | ng/ul | 95 |
| 19) Hexachloroethane | 9.364 | 117 | 21654 | 12.514 | ng/ul | 93 |
| 22) Nitrobenzene | 9.481 | 77 | 74775 | 13.123 | ng/ul | 97 |
| 23) Isophorone | 9.998 | 82 | 136963 | 12.508 | ng/ul | 98 |
| 25) 2-Nitrophenol | 10.192 | 139 | 27247 | 12.993 | ng/ul | 95 |
| 26) 2,4-Dimethylphenol | 10.233 | 107 | 38455 | 7.387 | ng/ul | 94 |
| 27) Bis(2-Chloroethoxy)met... | 10.480 | 93 | 74555 | 12.611 | ng/ul | 96 |
| 29) 2,4-Dichlorophenol | 10.727 | 162 | 47593 | 11.931 | ng/ul | 97 |
| 30) Naphthalene | 11.144 | 128 | 166380 | 11.925 | ng/ul# | 96 |
| 32) 4-Chloroaniline | 11.244 | 127 | 65618 | 11.323 | ng/ul | 98 |
| 33) Hexachlorobutadiene | 11.420 | 225 | 32925 | 11.358 | ng/ul | 99 |
| 34) Caprolactam | 11.990 | 113 | 15322 | 9.942 | ng/ul | 88 |
| 35) 4-Chloro-3-methylphenol | 12.337 | 107 | 58375 | 12.412 | ng/ul | 98 |

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BNA_G
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Manual Integrations APPROVED
mohammad
10/8/2021 8:31:08 AM

Quant Time: Oct 05 11:25:25 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\SFAM-EPA-BG093021.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Sep 30 16:27:24 2021
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 36) 2-Methylnaphthalene | 12.730 | 142 | 121429 | 12.801 | ng/ul | 97 |
| 37) 1-Methylnaphthalene | 12.948 | 142 | 116218 | 12.170 | ng/ul | 96 |
| 39) 1,2,4,5-Tetrachloroben... | 13.089 | 216 | 63862 | 12.590 | ng/ul# | 94 |
| 40) Hexachlorocyclopentadiene | 13.065 | 237 | 21332 | 6.341 | ng/ul | 95 |
| 41) 2,4,6-Trichlorophenol | 13.318 | 196 | 41189 | 12.883 | ng/ul | 92 |
| 42) 2,4,5-Trichlorophenol | 13.388 | 196 | 46710 | 13.356 | ng/ul | 97 |
| 43) 1,1'-Biphenyl | 13.723 | 154 | 154310 | 13.045 | ng/ul | 99 |
| 44) 2-Chloronaphthalene | 13.770 | 162 | 119088 | 12.851 | ng/ul | 97 |
| 45) 2-Nitroaniline | 13.964 | 65 | 46101 | 15.195 | ng/ul | 90 |
| 47) Dimethylphthalate | 14.323 | 163 | 155799 | 12.872 | ng/ul | 100 |
| 48) 2,6-Dinitrotoluene | 14.446 | 165 | 31377 | 13.782 | ng/ul | 97 |
| 50) Acenaphthylene | 14.610 | 152 | 184768 | 12.058 | ng/ul | 99 |
| 51) 3-Nitroaniline | 14.775 | 138 | 32108 | 12.965 | ng/ul | 92 |
| 52) Acenaphthene | 14.951 | 153 | 131420 | 12.976 | ng/ul | 96 |
| 53) 2,4-Dinitrophenol | 14.981 | 184 | 14455 | 10.186 | ng/ul | 91 |
| 55) 4-Nitrophenol | 15.063 | 109 | 27842 | 12.152 | ng/ul | 97 |
| 56) Dibenzofuran | 15.280 | 168 | 184788 | 12.545 | ng/ul | 94 |
| 57) 2,4-Dinitrotoluene | 15.227 | 165 | 45170 | 13.663 | ng/ul | 98 |
| 58) 2,3,4,6-Tetrachlorophenol | 15.498 | 232 | 38243 | 12.716 | ng/ul# | 93 |
| 59) Diethylphthalate | 15.680 | 149 | 164685 | 13.040 | ng/ul | 98 |
| 61) Fluorene | 15.927 | 166 | 149085 | 12.722 | ng/ul | 97 |
| 62) 4-Chlorophenyl-phenyle... | 15.915 | 204 | 77065 | 12.143 | ng/ul | 96 |
| 63) 4-Nitroaniline | 15.938 | 138 | 33245 | 13.293 | ng/ul | 97 |
| 66) 4,6-Dinitro-2-methylph... | 15.991 | 198 | 22111 | 12.150 | ng/ul | 98 |
| 67) N-Nitrosodiphenylamine | 16.126 | 169 | 131294 | 14.068 | ng/ul | 97 |
| 68) 4-Bromophenyl-phenylether | 16.808 | 248 | 47780 | 13.903 | ng/ul | 94 |
| 69) Hexachlorobenzene | 16.925 | 284 | 47364 | 13.088 | ng/ul | 96 |
| 70) Atrazine | 17.061 | 200 | 52820 | 13.292 | ng/ul | 95 |
| 71) Pentachlorophenol | 17.266 | 266 | 25969 | 10.958 | ng/ul | 94 |
| 72) Phenanthrene | 17.672 | 178 | 250790 | 13.611 | ng/ul | 98 |
| 74) Anthracene | 17.760 | 178 | 245393 | 13.448 | ng/ul | 99 |
| 75) 1,2,3,4-Tetrachloroben... | 13.694 | 216 | 66302 | 13.624 | ng/uL | 98 |
| 76) Pentachlorobenzene | 15.198 | 250 | 57960 | 13.037 | ng/uL | 96 |
| 77) Carbazole | 18.024 | 167 | 229412 | 14.046 | ng/ul | 99 |
| 78) Di-n-butylphthalate | 18.565 | 149 | 285472 | 14.749 | ng/ul | 99 |
| 80) Fluoranthene | 19.663 | 202 | 314954 | 14.192 | ng/ul | 99 |
| 82) Pyrene | 20.028 | 202 | 312468 | 14.278 | ng/ul | 99 |
| 83) Butylbenzylphthalate | 20.897 | 149 | 122799 | 15.224 | ng/ul | 96 |
| 84) 3,3'-Dichlorobenzidine | 21.814 | 252 | 88987 | 12.991 | ng/ul | 98 |
| 85) Benzo(a)anthracene | 21.908 | 228 | 284962 | 14.223 | ng/ul | 99 |
| 86) Bis(2-ethylhexyl)phtha... | 21.790 | 149 | 186633 | 16.101 | ng/ul | 100 |
| 87) Chrysene | 21.978 | 228 | 269404 | 14.031 | ng/ul | 100 |
| 89) Di-n-octyl phthalate | 23.071 | 149 | 312832 | 16.351 | ng/ul | 100 |
| 90) Benzo(b)fluoranthene | 24.252 | 252 | 282091 | 13.909 | ng/ul | 98 |
| 91) Benzo(k)fluoranthene | 24.328 | 252 | 273892 | 14.513 | ng/ul | 98 |
| 93) Benzo(a)pyrene | 25.186 | 252 | 247395 | 12.785 | ng/ul | 97 |
| 94) Indeno(1,2,3-cd)pyrene | 29.276 | 276 | 303035m | 13.948 | ng/ul | 97 |
| 95) Dibenzo(a,h)anthracene | 29.346 | 278 | 256636 | 13.881 | ng/ul | 99 |
| 96) Benzo(g,h,i)perylene | 30.504 | 276 | 222465 | 12.147 | ng/ul | 97 |

JU 10/08/21

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