

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120621\  
 Data File : VN069786.D  
 Acq On : 6 Dec 2021 16:18  
 Operator : JC/MD  
 Sample : M4909-01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_N/MEOH  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 HG-SOIL-PILE

Quant Time: Dec 07 03:48:54 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 2021  
 Response via : Initial Calibration

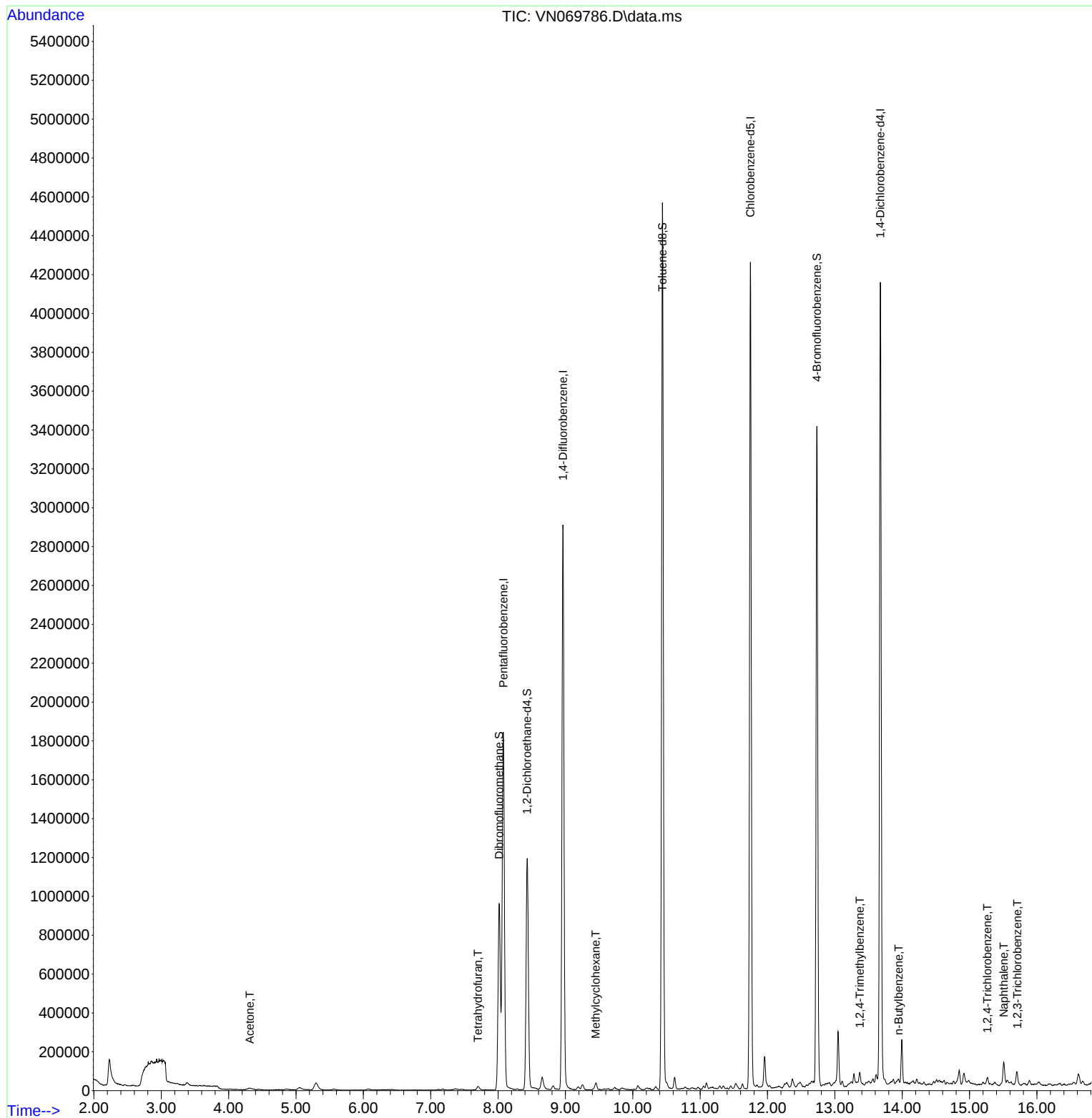
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Pentafluorobenzene       | 8.078  | 168   | 1409653  | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.963  | 114   | 2465882  | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.747 | 117   | 2368913  | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.675 | 152   | 1075441  | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.432  | 65    | 1030308  | 47.338   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | =      | 94.680%  |
| 35) Dibromofluoromethane    | 8.016  | 113   | 692798   | 44.854   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | =      | 89.700%  |
| 50) Toluene-d8              | 10.440 | 98    | 3070008  | 49.500   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | =      | 99.000%  |
| 62) 4-Bromofluorobenzene    | 12.734 | 95    | 1137670  | 50.634   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | =      | 101.260% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 16) Acetone                 | 4.315  | 43    | 15506    | 1.184    | ug/l   | 97       |
| 29) Tetrahydrofuran         | 7.702  | 42    | 16741    | 1.550    | ug/l # | 79       |
| 39) Methylcyclohexane       | 9.451  | 83    | 13393    | 0.480    | ug/l # | 87       |
| 84) 1,2,4-Trimethylbenzene  | 13.369 | 105   | 34001    | 0.464    | ug/l   | 96       |
| 89) n-Butylbenzene          | 13.946 | 91    | 17854    | 0.304    | ug/l # | 78       |
| 93) 1,2,4-Trichlorobenzene  | 15.265 | 180   | 12760    | 3.559    | ug/l   | 95       |
| 95) Naphthalene             | 15.507 | 128   | 105757   | 5.837    | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene  | 15.708 | 180   | 14213    | 3.222    | ug/l   | 92       |
| -----                       |        |       |          |          |        |          |

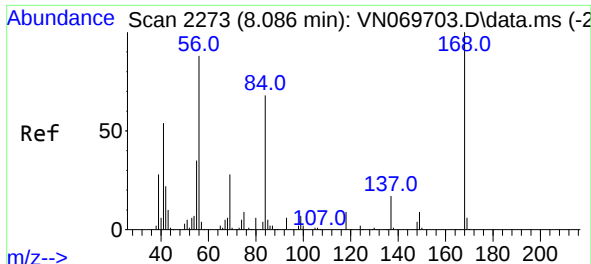
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Dec 03 08:46:47 2021  
Response via : Initial Calibration

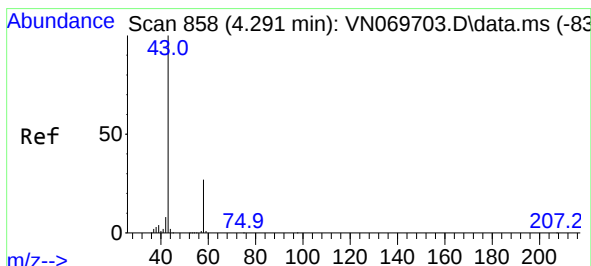
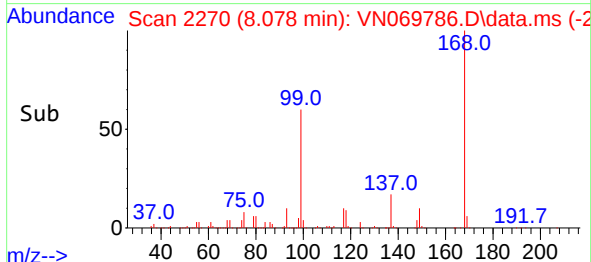
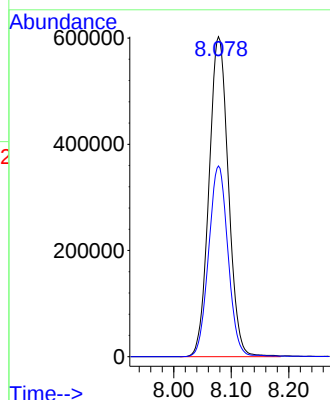
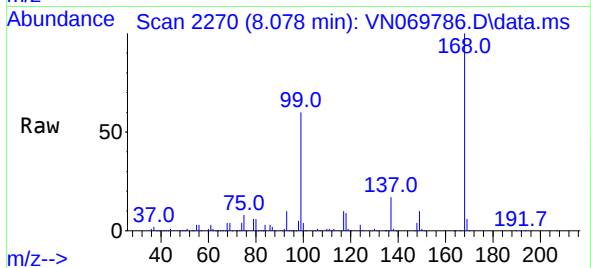




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.078 min Scan# 21  
Delta R.T. -0.008 min  
Lab File: VN069786.D  
Acq: 6 Dec 2021 16:18

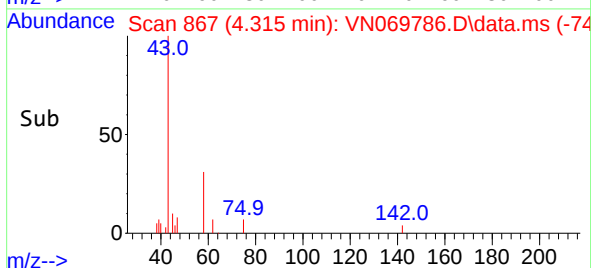
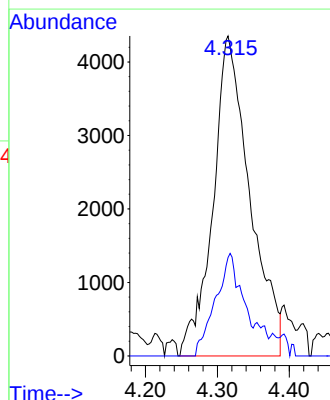
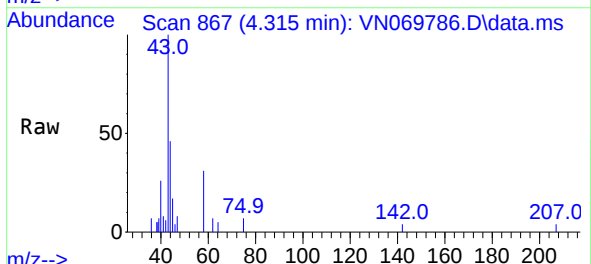
Instrument :  
MSVOA\_N  
ClientSampleId :  
HG-SOIL-PILE

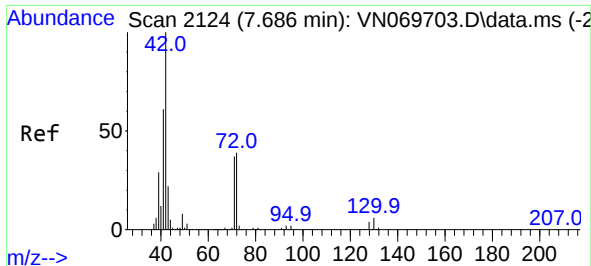
Tgt Ion:168 Resp: 1409653  
Ion Ratio Lower Upper  
168 100  
99 59.6 41.3 61.9



#16  
Acetone  
Concen: 1.184 ug/l  
RT: 4.315 min Scan# 867  
Delta R.T. 0.024 min  
Lab File: VN069786.D  
Acq: 6 Dec 2021 16:18

Tgt Ion: 43 Resp: 15506  
Ion Ratio Lower Upper  
43 100  
58 30.7 23.1 34.7





#29

Tetrahydrofuran

Concen: 1.550 ug/l

RT: 7.702 min Scan# 21

Delta R.T. 0.016 min

Lab File: VN069786.D

Acq: 6 Dec 2021 16:18

Instrument :

MSVOA\_N

ClientSampleId :

HG-SOIL-PILE

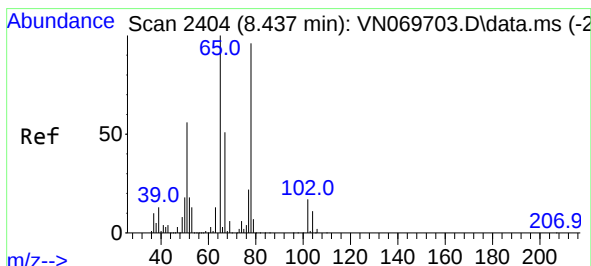
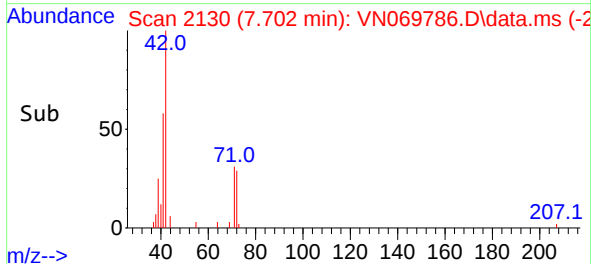
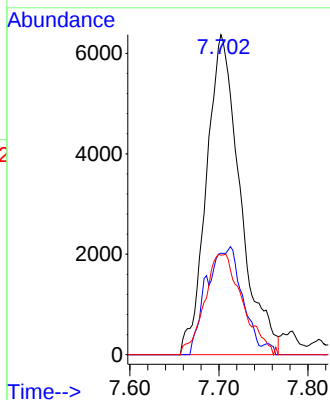
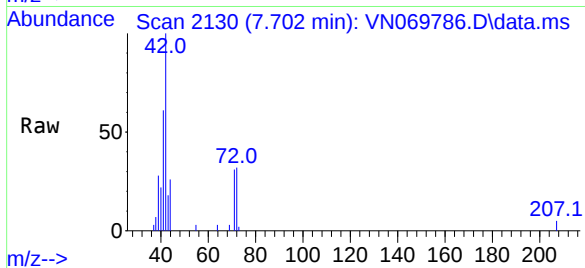
Tgt Ion: 42 Resp: 16741

Ion Ratio Lower Upper

42 100

72 26.9 36.3 54.5#

71 35.3 34.7 52.1



#33

1,2-Dichloroethane-d4

Concen: 47.338 ug/l

RT: 8.432 min Scan# 2402

Delta R.T. -0.005 min

Lab File: VN069786.D

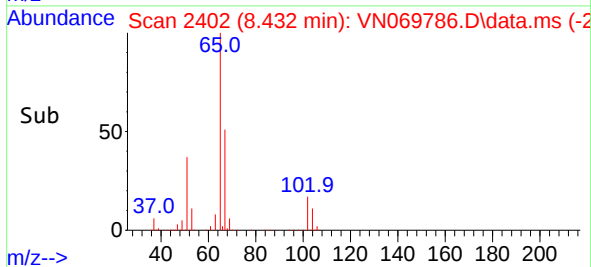
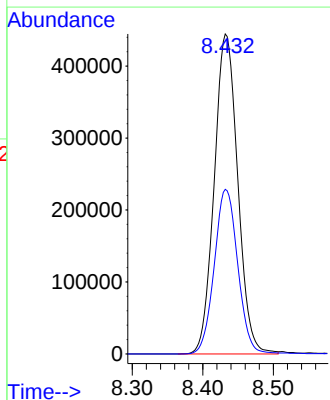
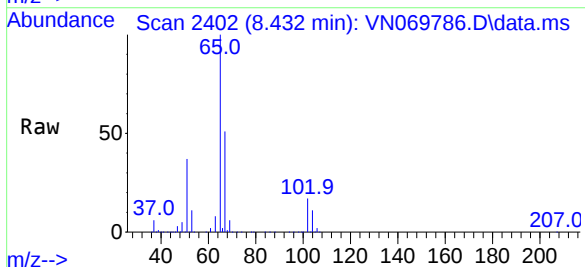
Acq: 6 Dec 2021 16:18

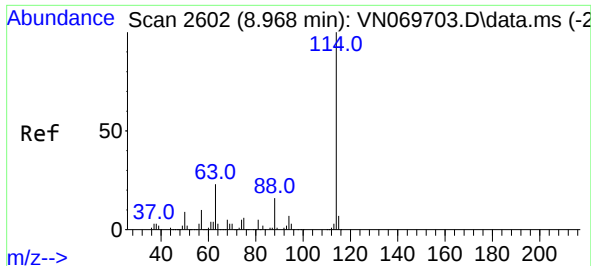
Tgt Ion: 65 Resp: 1030308

Ion Ratio Lower Upper

65 100

67 51.4 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 2

Delta R.T. -0.005 min

Lab File: VN069786.D

Acq: 6 Dec 2021 16:18

Instrument :

MSVOA\_N

ClientSampleId :

HG-SOIL-PILE

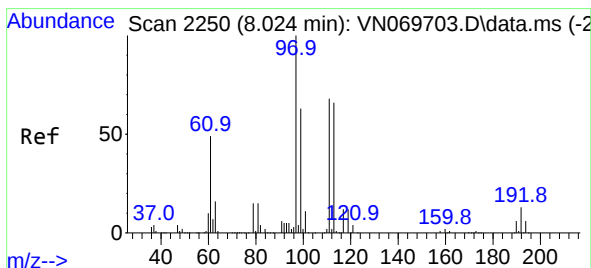
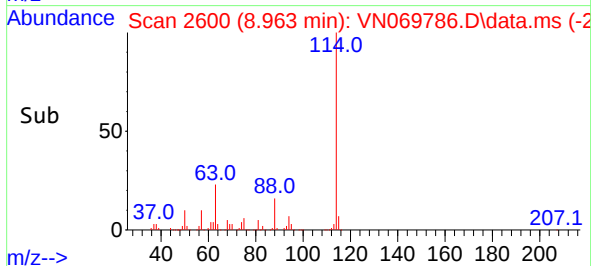
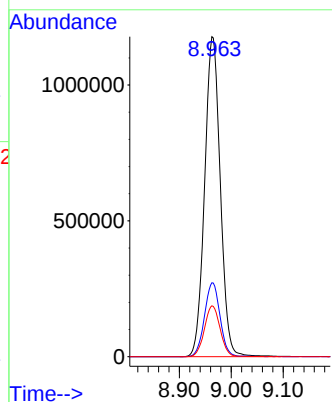
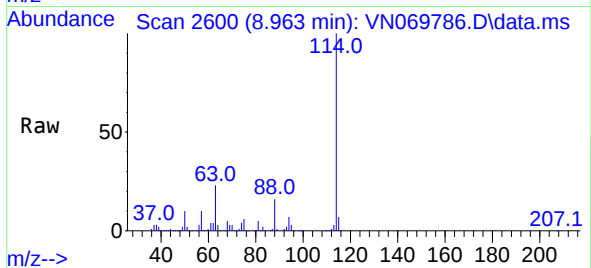
Tgt Ion:114 Resp: 2465882

Ion Ratio Lower Upper

114 100

63 23.1 0.0 37.8

88 15.9 0.0 27.4



#35

Dibromofluoromethane

Concen: 44.854 ug/l

RT: 8.016 min Scan# 2247

Delta R.T. -0.008 min

Lab File: VN069786.D

Acq: 6 Dec 2021 16:18

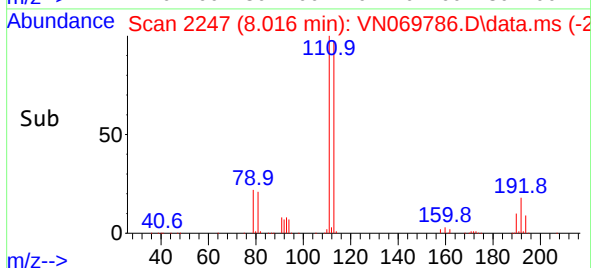
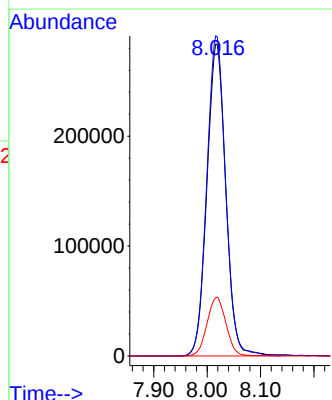
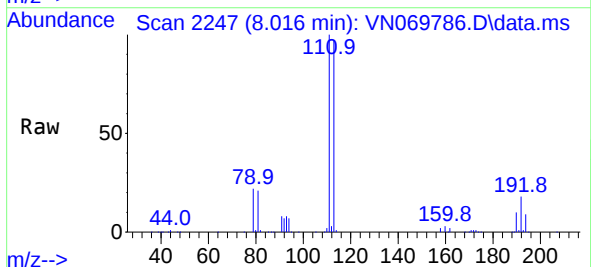
Tgt Ion:113 Resp: 692798

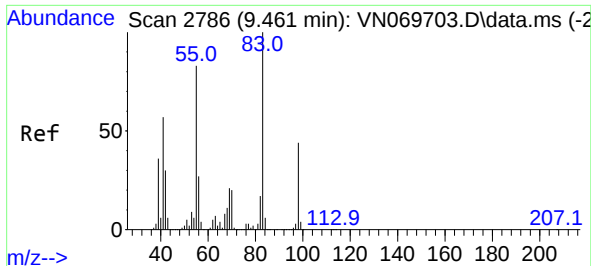
Ion Ratio Lower Upper

113 100

111 103.2 82.2 123.2

192 18.9 16.9 25.3

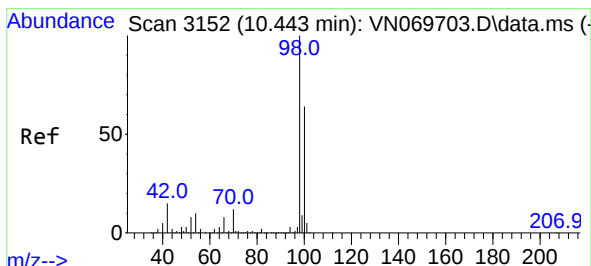
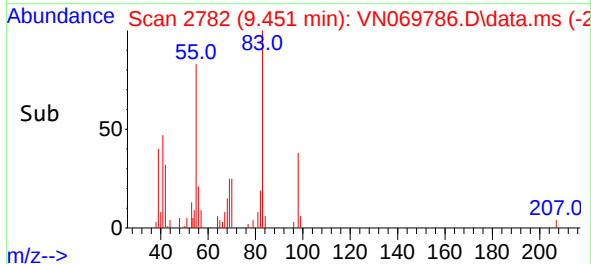
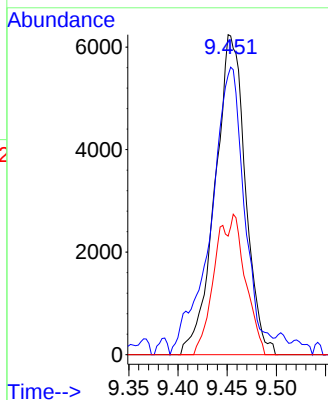
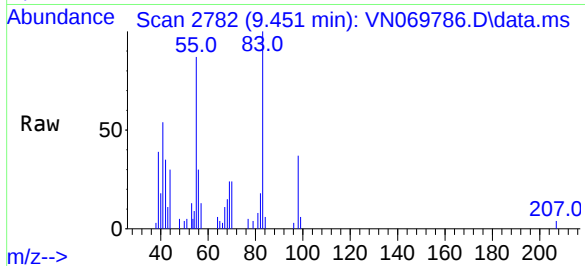




#39  
Methylcyclohexane  
Concen: 0.480 ug/l  
RT: 9.451 min Scan# 21  
Delta R.T. -0.011 min  
Lab File: VN069786.D  
Acq: 6 Dec 2021 16:18

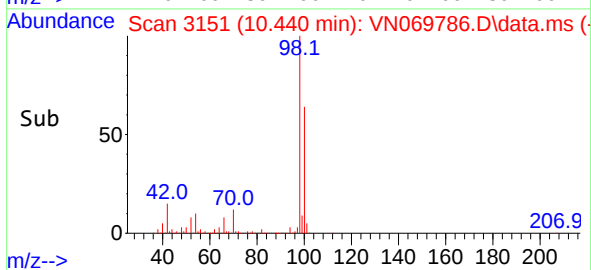
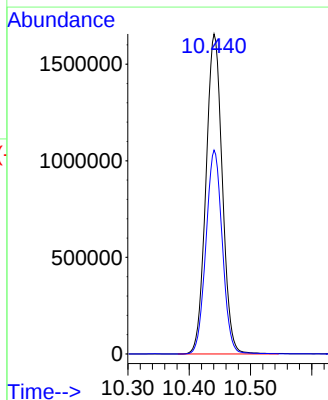
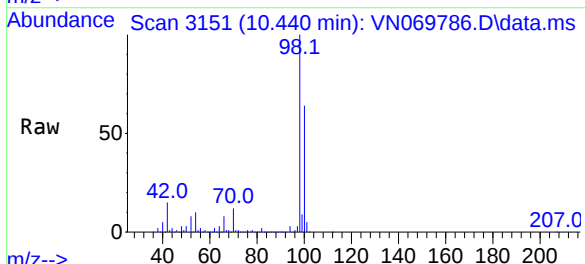
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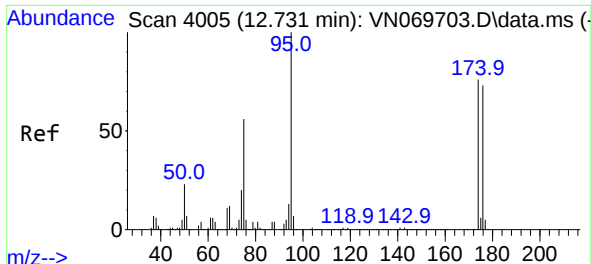
Tgt Ion: 83 Resp: 13393  
Ion Ratio Lower Upper  
83 100  
55 82.0 58.1 87.1  
98 37.0 38.4 57.6#



#50  
Toluene-d8  
Concen: 49.500 ug/l  
RT: 10.440 min Scan# 3151  
Delta R.T. -0.002 min  
Lab File: VN069786.D  
Acq: 6 Dec 2021 16:18

Tgt Ion: 98 Resp: 3070008  
Ion Ratio Lower Upper  
98 100  
100 63.7 50.4 75.6

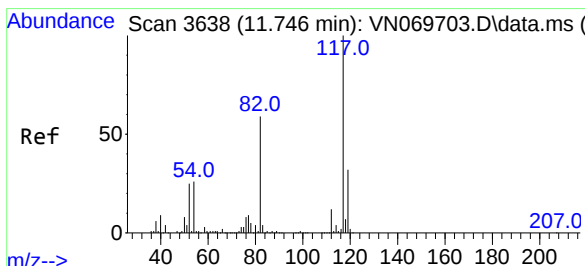
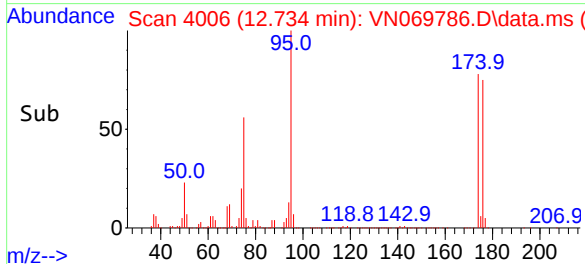
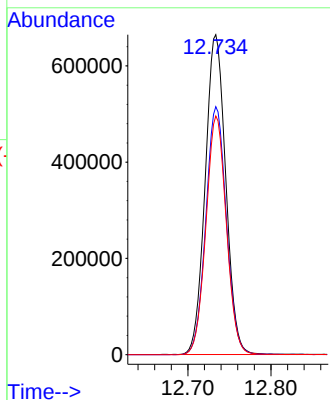
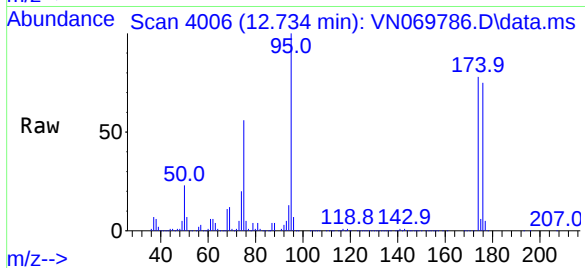




#62  
4-Bromofluorobenzene  
Concen: 50.634 ug/l  
RT: 12.734 min Scan# 4005  
Delta R.T. 0.003 min  
Lab File: VN069786.D  
Acq: 6 Dec 2021 16:18

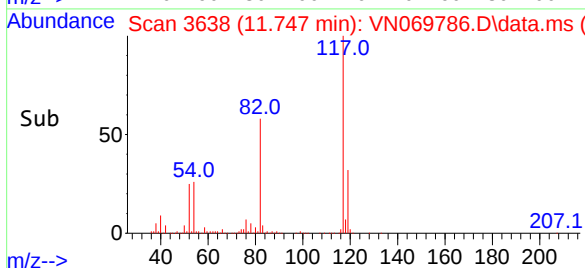
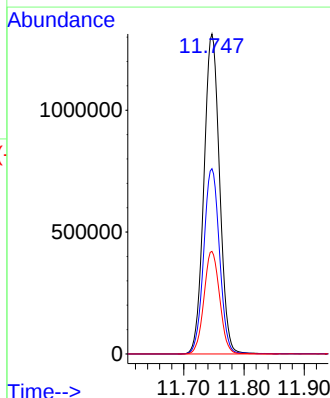
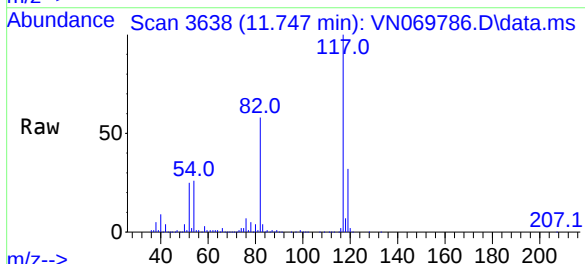
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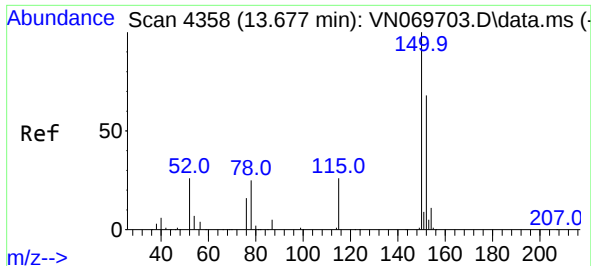
Tgt Ion: 95 Resp: 1137670  
Ion Ratio Lower Upper  
95 100  
174 77.8 0.0 187.2  
176 74.3 0.0 181.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.747 min Scan# 3638  
Delta R.T. 0.001 min  
Lab File: VN069786.D  
Acq: 6 Dec 2021 16:18

Tgt Ion: 117 Resp: 2368913  
Ion Ratio Lower Upper  
117 100  
82 57.9 42.4 63.6  
119 32.1 25.4 38.2

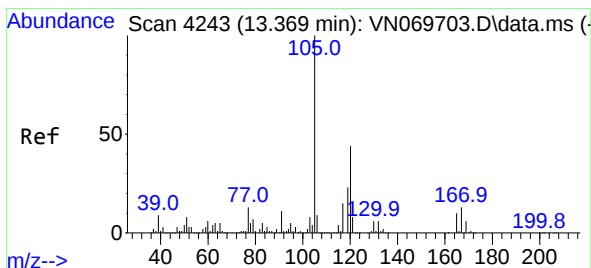
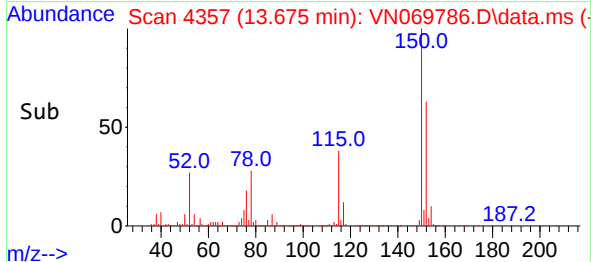
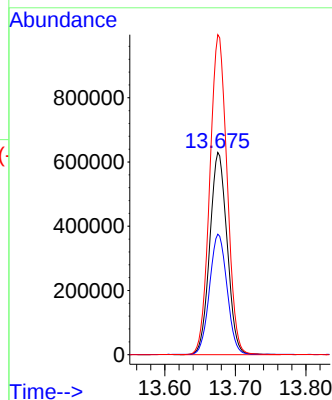
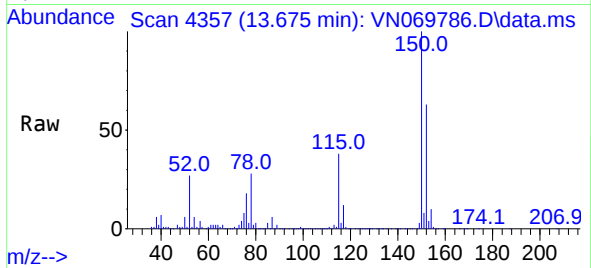




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.675 min Scan# 41  
Delta R.T. -0.002 min  
Lab File: VN069786.D  
Acq: 6 Dec 2021 16:18

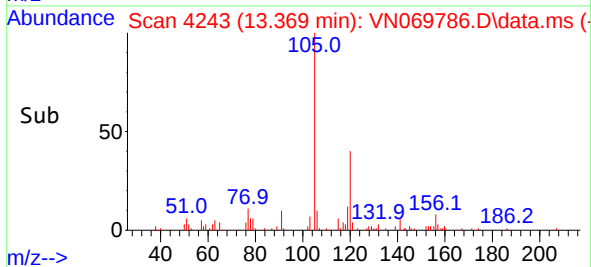
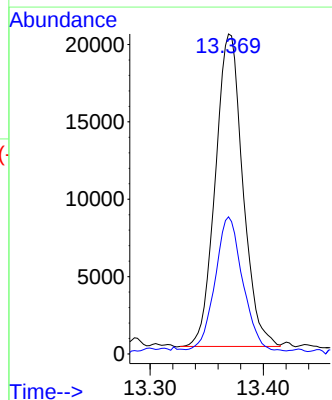
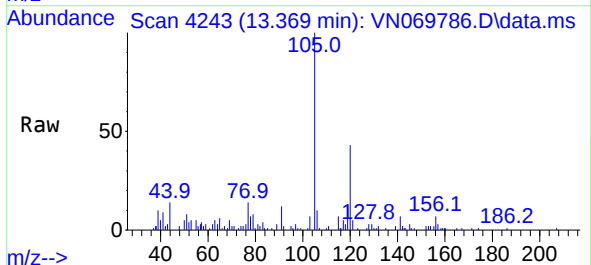
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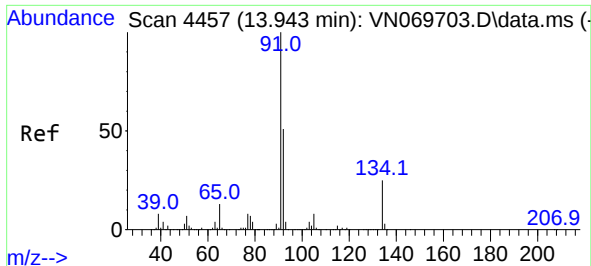
Tgt Ion:152 Resp: 1075441  
Ion Ratio Lower Upper  
152 100  
115 60.0 27.5 82.5  
150 157.9 0.0 344.4



#84  
1,2,4-Trimethylbenzene  
Concen: 0.464 ug/l  
RT: 13.369 min Scan# 4243  
Delta R.T. 0.000 min  
Lab File: VN069786.D  
Acq: 6 Dec 2021 16:18

Tgt Ion:105 Resp: 34001  
Ion Ratio Lower Upper  
105 100  
120 43.1 22.8 68.4

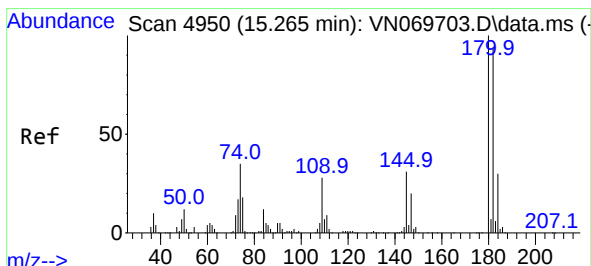
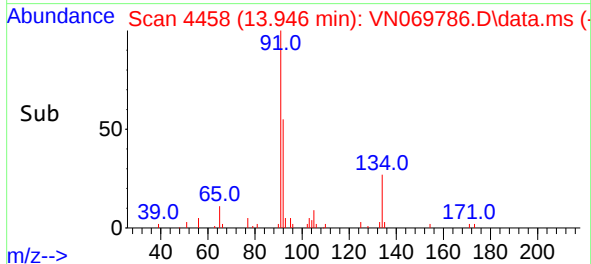
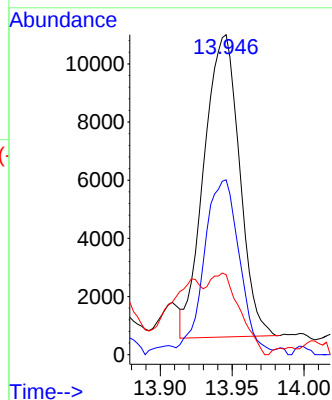
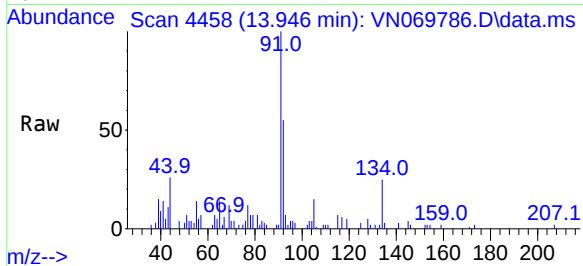




#89  
n-Butylbenzene  
Concen: 0.304 ug/l  
RT: 13.946 min Scan# 4457  
Delta R.T. 0.003 min  
Lab File: VN069786.D  
Acq: 6 Dec 2021 16:18

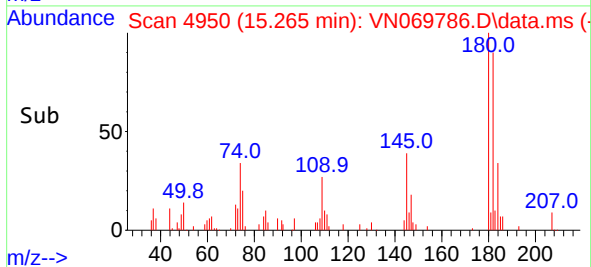
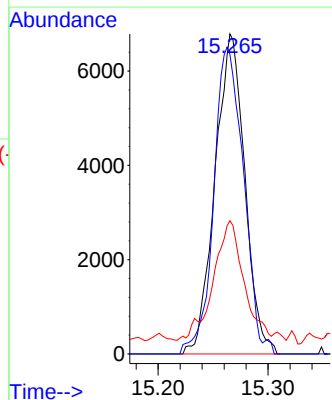
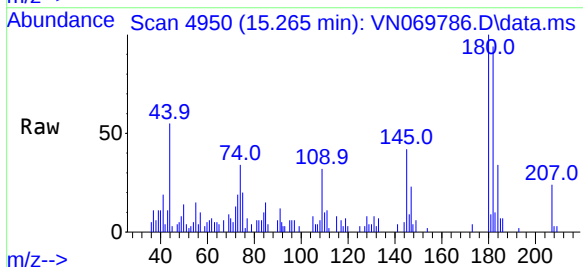
Instrument :  
MSVOA\_N  
ClientSampleId :  
HG-SOIL-PILE

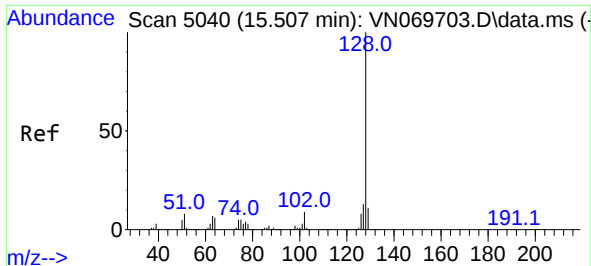
Tgt Ion: 91 Resp: 17854  
Ion Ratio Lower Upper  
91 100  
92 55.0 25.4 76.0  
134 0.0 13.6 40.8#



#93  
1,2,4-Trichlorobenzene  
Concen: 3.559 ug/l  
RT: 15.265 min Scan# 4950  
Delta R.T. 0.000 min  
Lab File: VN069786.D  
Acq: 6 Dec 2021 16:18

Tgt Ion:180 Resp: 12760  
Ion Ratio Lower Upper  
180 100  
182 94.9 48.3 144.9  
145 38.0 14.5 43.5



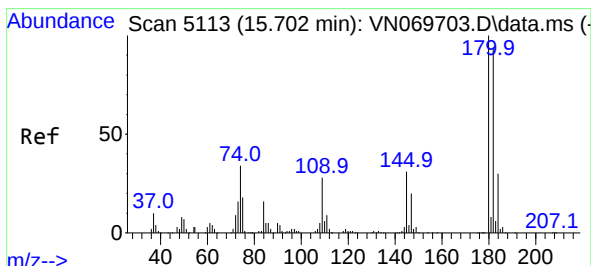
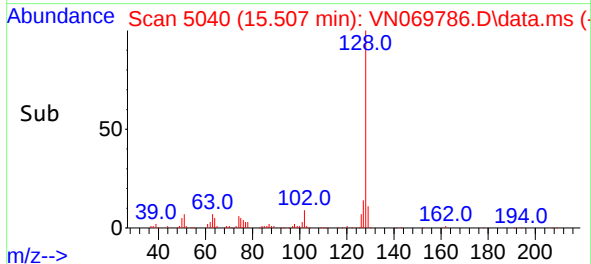
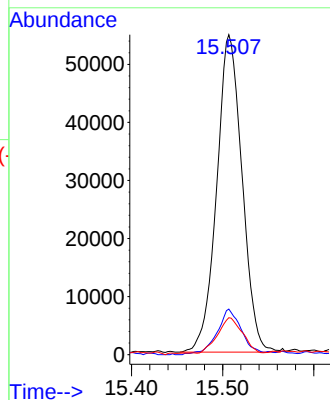
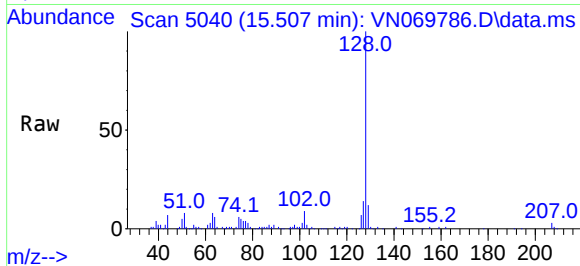


#95  
Naphthalene  
Concen: 5.837 ug/l  
RT: 15.507 min Scan# 5040  
Delta R.T. -0.000 min  
Lab File: VN069786.D  
Acq: 6 Dec 2021 16:18

Instrument :  
MSVOA\_N  
ClientSampleId :  
HG-SOIL-PILE

Tgt Ion:128 Resp: 105757

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 127 | 13.8  | 10.5  | 15.7  |
| 129 | 10.8  | 8.7   | 13.1  |



#96  
1,2,3-Trichlorobenzene  
Concen: 3.222 ug/l  
RT: 15.708 min Scan# 5115  
Delta R.T. 0.006 min  
Lab File: VN069786.D  
Acq: 6 Dec 2021 16:18

Tgt Ion:180 Resp: 14213

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 100.4 | 47.4  | 142.2 |
| 145 | 38.5  | 15.0  | 45.1  |

