

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121120\  
 Data File : VN065085.D  
 Acq On : 11 Dec 2020 21:37  
 Operator : JC/MD  
 Sample : L4991-01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 COMP-2

Manual Integrations  
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 12/15/2020 4:48:40 PM

Quant Time: Dec 12 04:24:47 2020  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121120W.M  
 Quant Title : Sw846 8260  
 QLast Update : Sat Dec 12 04:18:15 2020  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|----------------|------|----------|--------|---------|----------|
| -----                       |                |      |          |        |         |          |
| Internal Standards          |                |      |          |        |         |          |
| 1) Pentafluorobenzene       | 7.627          | 168  | 273720   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.550          | 114  | 474152   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.379         | 117  | 486539   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.318         | 152  | 242765   | 50.00  | ug/l    | 0.00     |
|                             |                |      |          |        |         |          |
| System Monitoring Compounds |                |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 7.987          | 65   | 173026   | 54.38  | ug/l    | 0.00     |
| Spiked Amount 50.000        | Range 61 - 141 |      | Recovery | =      | 108.76% |          |
| 35) Dibromofluoromethane    | 7.553          | 113  | 151653   | 47.26  | ug/l    | 0.00     |
| Spiked Amount 50.000        | Range 69 - 133 |      | Recovery | =      | 94.52%  |          |
| 50) Toluene-d8              | 10.058         | 98   | 604646   | 51.92  | ug/l    | 0.00     |
| Spiked Amount 50.000        | Range 65 - 126 |      | Recovery | =      | 103.84% |          |
| 62) 4-Bromofluorobenzene    | 12.376         | 95   | 237607   | 58.11  | ug/l    | 0.00     |
| Spiked Amount 50.000        | Range 58 - 135 |      | Recovery | =      | 116.22% |          |
|                             |                |      |          |        |         |          |
| Target Compounds            |                |      |          |        | Qvalue  |          |
| 11) Tert butyl alcohol      | 4.721          | 59   | 45415    | 116.10 | ug/l #  | 82       |
| 13) Acrolein                | 3.579          | 56   | 2494     | 10.54  | ug/l #  | 53       |
| 16) Acetone                 | 3.772          | 43   | 557388   | 489.99 | ug/l    | 97       |
| 18) Methyl Acetate          | 4.277          | 43   | 34282    | 13.18  | ug/l    | 96       |
| 25) 2-Butanone              | 6.785          | 43   | 193310   | 122.77 | ug/l    | 94       |
| 40) Benzene                 | 8.003          | 78   | 161441   | 12.43  | ug/l    | 98       |
| 51) 4-Methyl-2-Pentanone    | 9.952          | 43   | 1004225  | 263.92 | ug/l    | 94       |
| 52) Toluene                 | 10.122         | 92   | 138805   | 16.86  | ug/l    | 97       |
| 59) 2-Hexanone              | 10.723         | 43   | 7174     | 10.88  | ug/l    | 94       |
| 67) Ethyl Benzene           | 11.482         | 91   | 30529    | 1.80   | ug/l    | 95       |
| 68) m/p-Xylenes             | 11.588         | 106  | 33540    | 5.07   | ug/l    | 99       |
| 69) o-Xylene                | 11.920         | 106  | 13536    | 2.19   | ug/l    | 93       |
| 70) Styrene                 | 11.936         | 104  | 41903    | 5.39   | ug/l    | 96       |
| 78) n-propylbenzene         | 12.563         | 91   | 5532     | 0.31   | ug/l    | 95       |
| 80) 1,3,5-Trimethylbenzene  | 12.707         | 105  | 13212    | 1.01   | ug/l    | 97       |
| 84) 1,2,4-Trimethylbenzene  | 13.019         | 105  | 86505m   | 6.58   | ug/l    |          |
| 89) n-Butylbenzene          | 13.588         | 91   | 3399     | 0.32   | ug/l #  | 83       |
| 95) Naphthalene             | 15.103         | 128  | 318894   | 28.66  | ug/l    | 99       |
| -----                       |                |      |          |        |         |          |

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

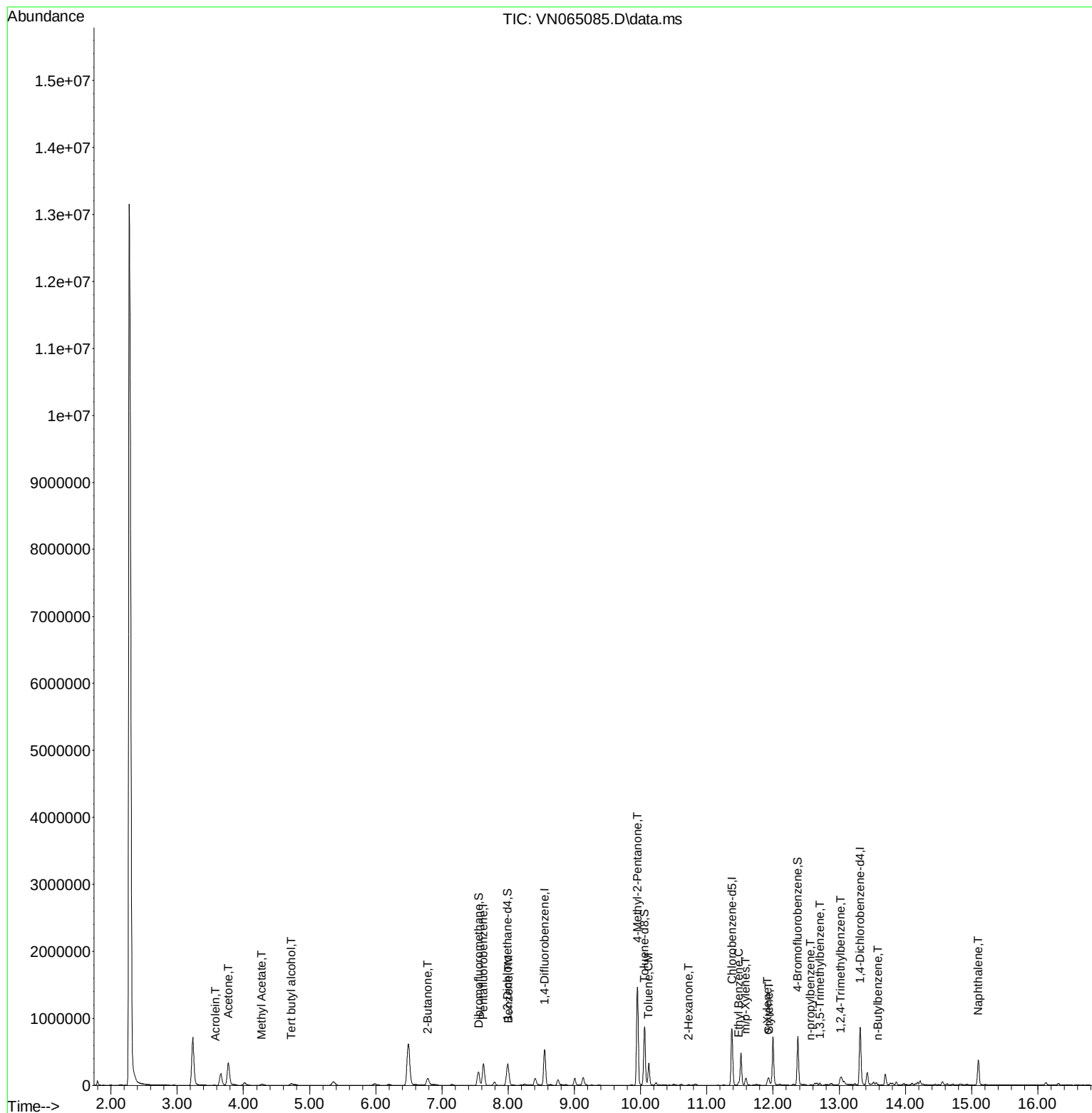
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN121120\  
Data File : VN065085.D  
Acq On : 11 Dec 2020 21:37  
Operator : JC/MD  
Sample : L4991-01  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
COMP-2

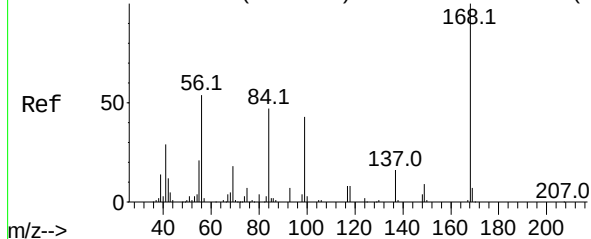
Manual Integrations  
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12/15/2020 4:48:40 PM

Quant Time: Dec 12 04:24:47 2020  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N121120W.M  
Quant Title : SW846 8260  
QLast Update : Sat Dec 12 04:18:15 2020  
Response via : Initial Calibration



Abundance Scan 1830 (7.624 min): VN065073.D\data.ms (-1830) (-)



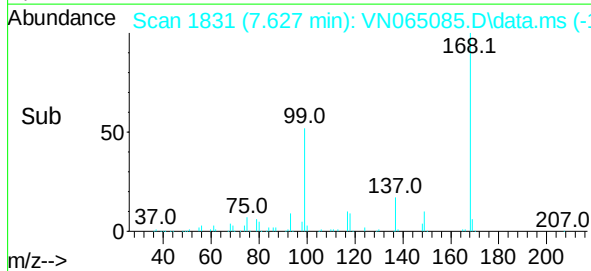
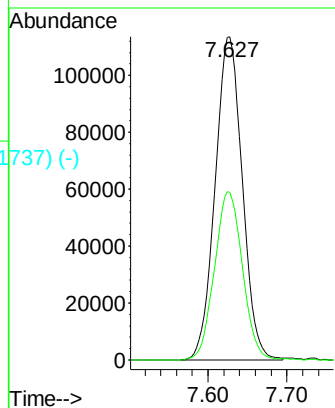
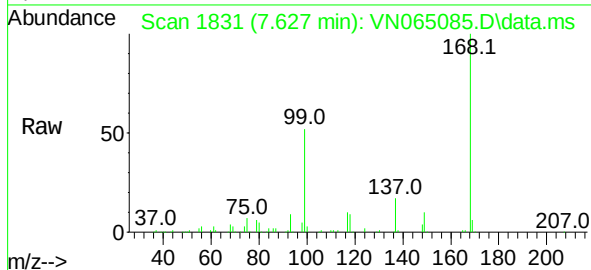
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.627 min Scan# 1831  
Delta R.T. 0.003 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion:168 Resp: 273720  
Ion Ratio Lower Upper  
168 100  
99 51.8 43.0 64.4

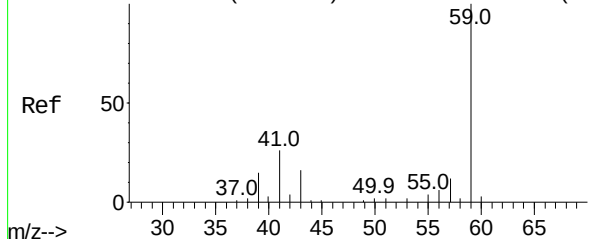
Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-2

Manual Integrations  
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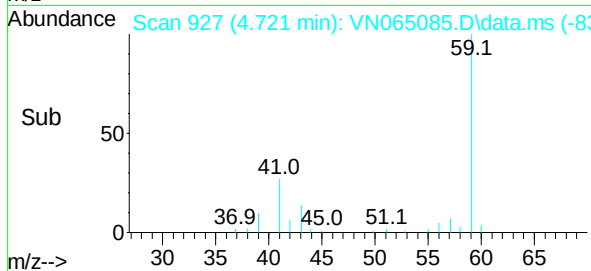
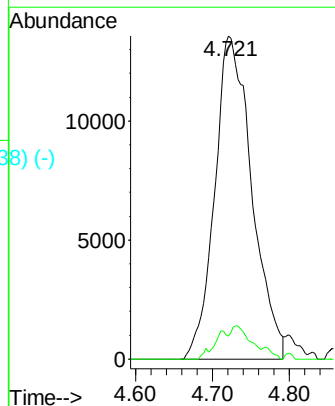
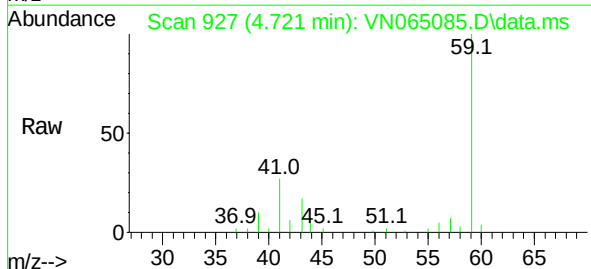


Abundance Scan 931 (4.733 min): VN065073.D\data.ms (-903) (-)

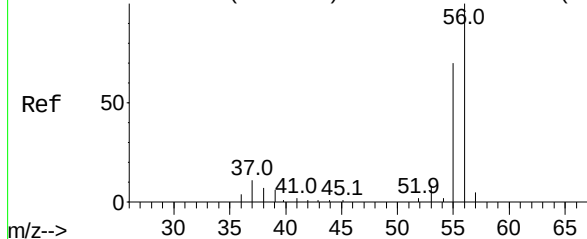


Tert butyl alcohol  
Concen: 116.10 ug/l  
RT: 4.721 min Scan# 927  
Delta R.T. -0.012 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion: 59 Resp: 45415  
Ion Ratio Lower Upper  
59 100  
57 3.4 7.9 11.9#



Abundance Scan 568 (3.566 min): VN065073.D\data.ms (-552) #13



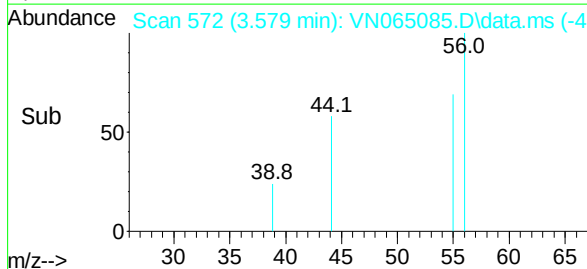
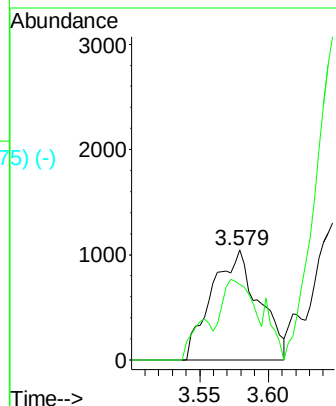
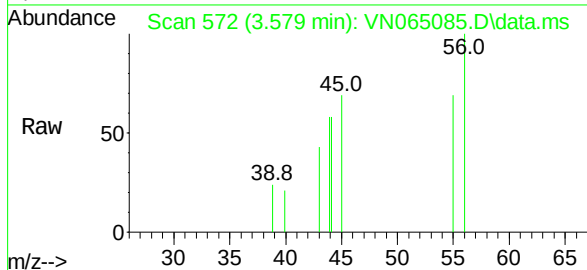
Acrolein  
Concen: 10.54 ug/l  
RT: 3.579 min Scan# 572  
Delta R.T. 0.013 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion: 56 Resp: 2494  
Ion Ratio Lower Upper  
56 100  
55 32.2 56.5 84.7#

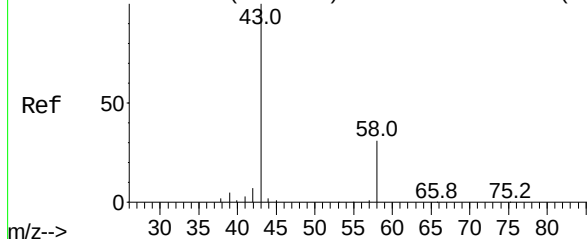
Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-2

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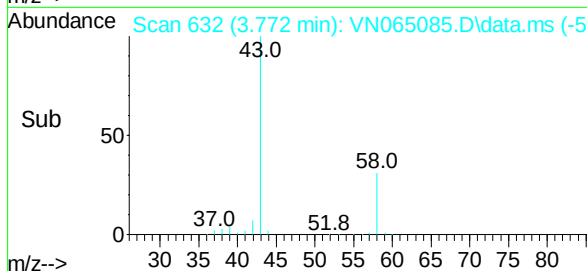
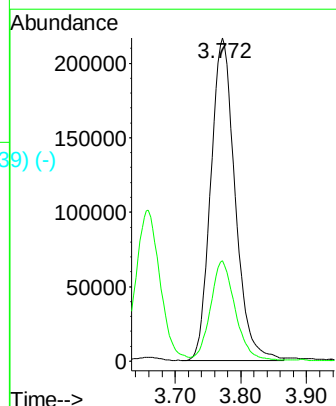
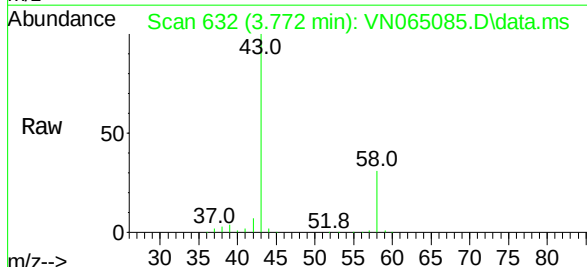


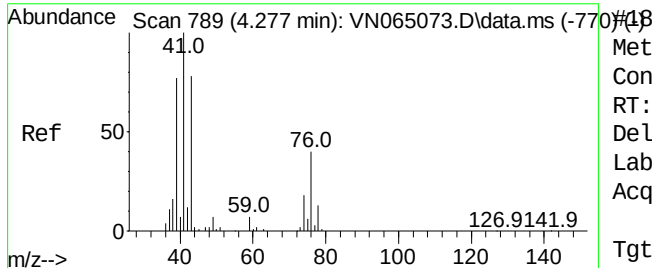
Abundance Scan 632 (3.772 min): VN065073.D\data.ms (-610) #16



Acetone  
Concen: 489.99 ug/l  
RT: 3.772 min Scan# 632  
Delta R.T. 0.000 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion: 43 Resp: 557388  
Ion Ratio Lower Upper  
43 100  
58 30.7 25.7 38.5





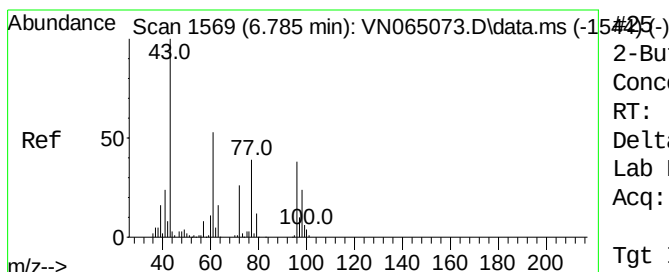
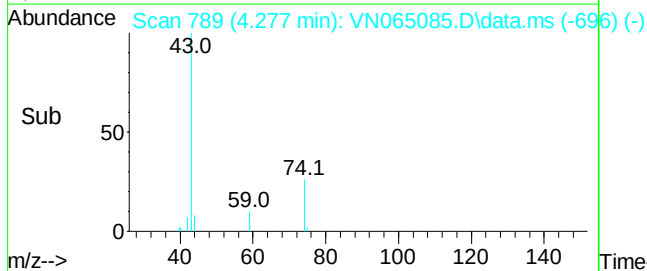
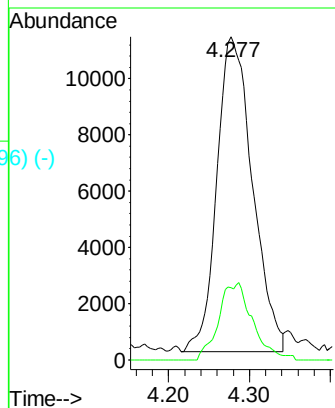
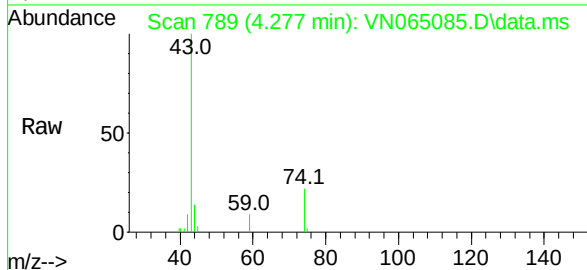
Methyl Acetate  
Concen: 13.18 ug/l  
RT: 4.277 min Scan# 789  
Delta R.T. -0.000 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-2

Tgt Ion: 43 Resp: 34282  
Ion Ratio Lower Upper  
43 100  
74 23.0 20.2 30.2

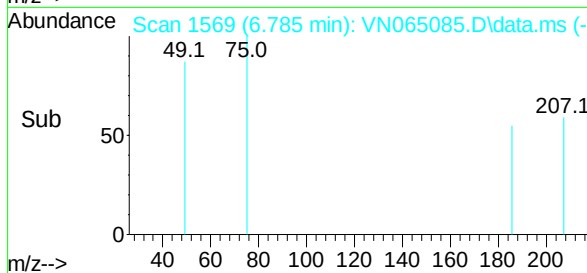
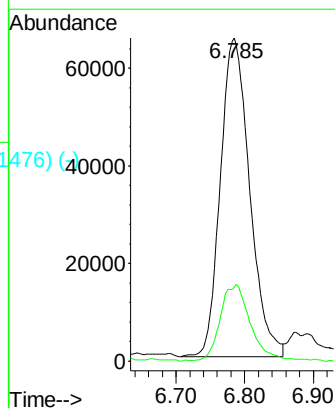
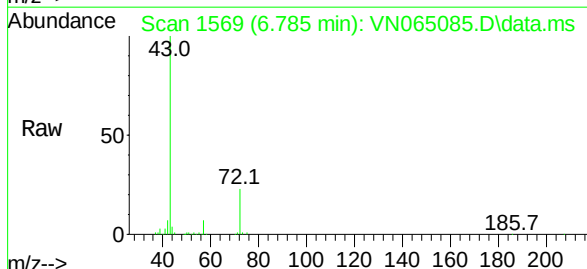
Manual Integrations  
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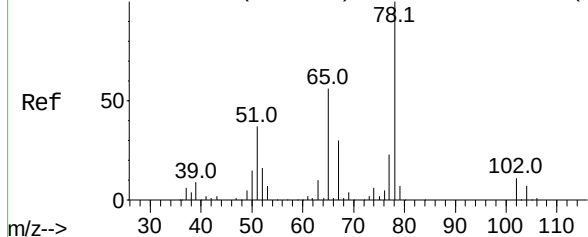


2-Butanone  
Concen: 122.77 ug/l  
RT: 6.785 min Scan# 1569  
Delta R.T. -0.000 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion: 43 Resp: 193310  
Ion Ratio Lower Upper  
43 100  
72 23.3 21.0 31.6



Abundance Scan 1942 (7.984 min): VN065073.D\data.ms (-19243)



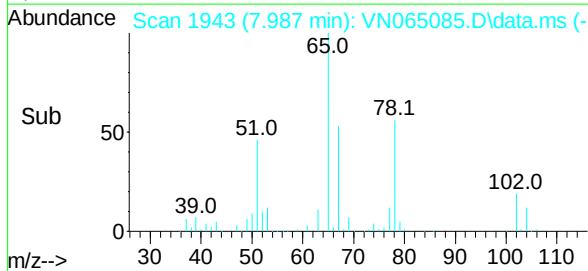
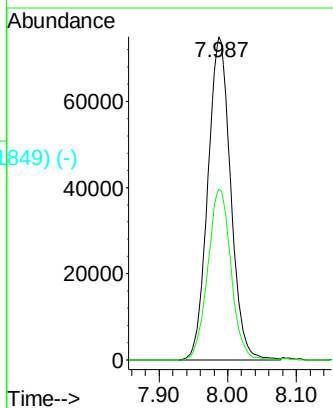
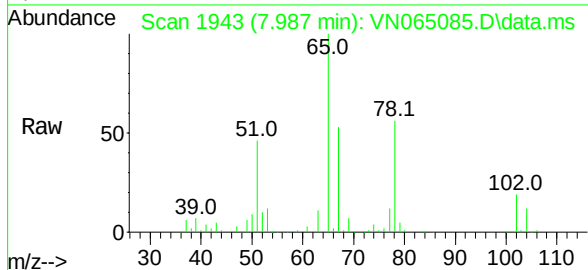
1,2-Dichloroethane-d4  
Concen: 54.38 ug/l  
RT: 7.987 min Scan# 1943  
Delta R.T. 0.003 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion: 65 Resp: 173026  
Ion Ratio Lower Upper  
65 100  
67 53.6 0.0 108.2

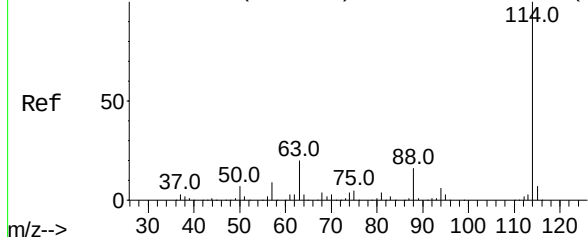
Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-2

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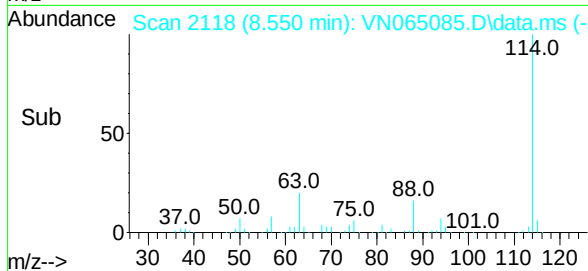
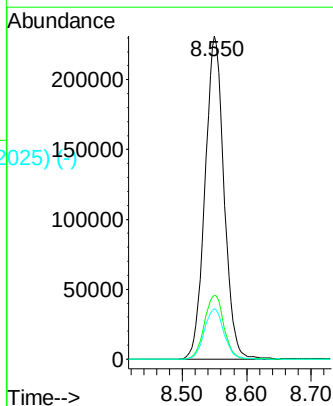
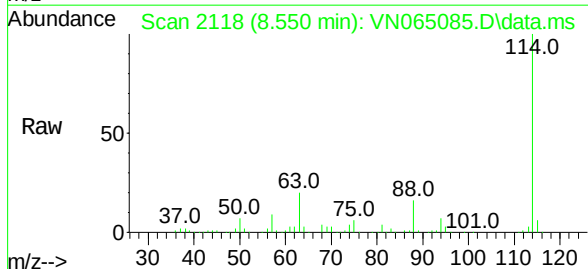


Abundance Scan 2118 (8.550 min): VN065073.D\data.ms (-21094)

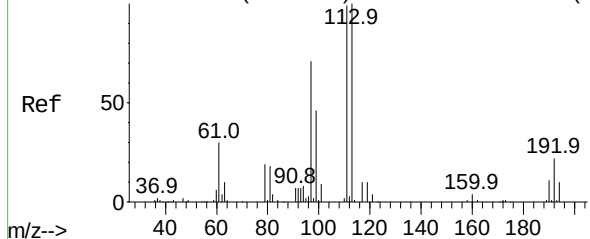


1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.550 min Scan# 2118  
Delta R.T. -0.000 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion:114 Resp: 474152  
Ion Ratio Lower Upper  
114 100  
63 19.8 0.0 38.6  
88 15.6 0.0 32.6



Abundance Scan 1807 (7.550 min): VN065073.D\data.ms (-1765)



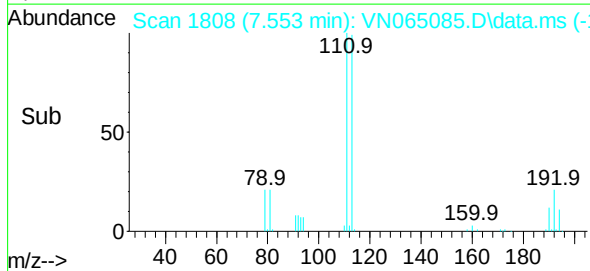
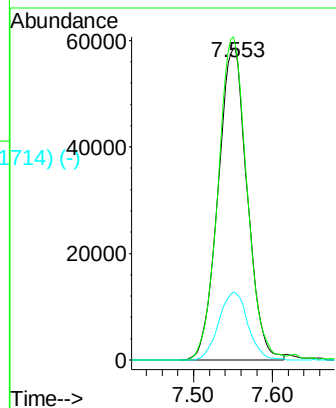
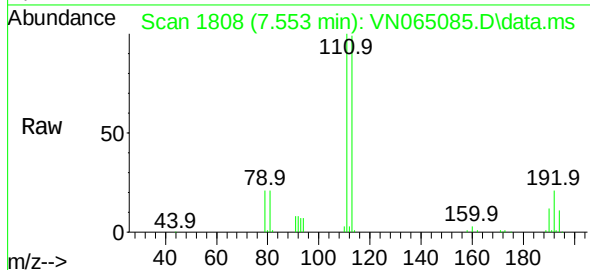
Dibromofluoromethane  
Concen: 47.26 ug/l  
RT: 7.553 min Scan# 1808  
Delta R.T. 0.003 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion: 113 Resp: 151653  
Ion Ratio Lower Upper  
113 100  
111 102.6 81.6 122.4  
192 21.6 16.2 24.2

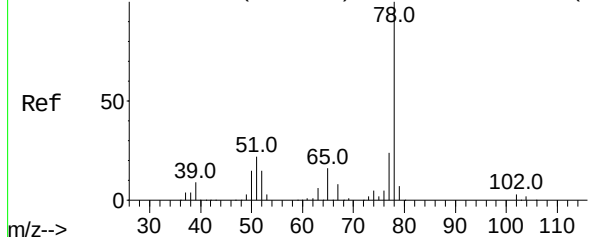
Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-2

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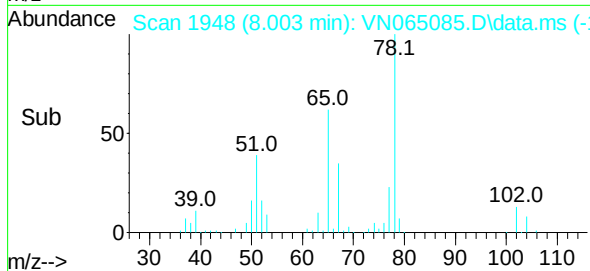
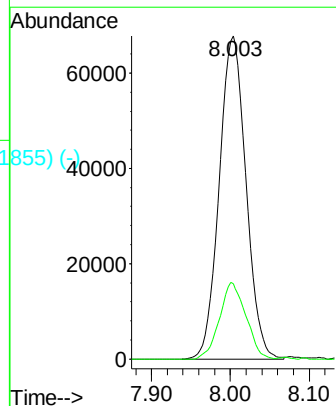
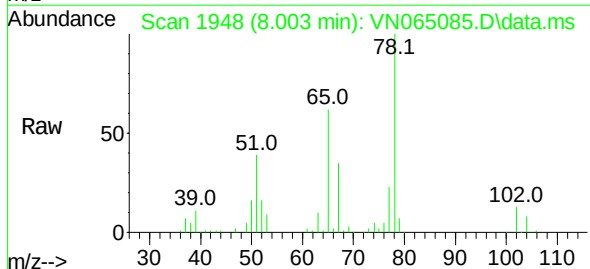


Abundance Scan 1948 (8.003 min): VN065073.D\data.ms (-1928)

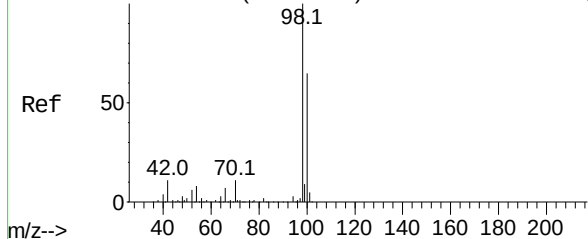


Benzene  
Concen: 12.43 ug/l  
RT: 8.003 min Scan# 1948  
Delta R.T. 0.000 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion: 78 Resp: 161441  
Ion Ratio Lower Upper  
78 100  
77 23.3 17.9 26.9



Abundance Scan 2587 (10.058 min): VN065073.D\data.ms (-2550) (-)



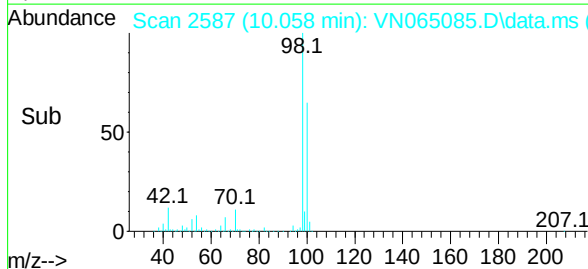
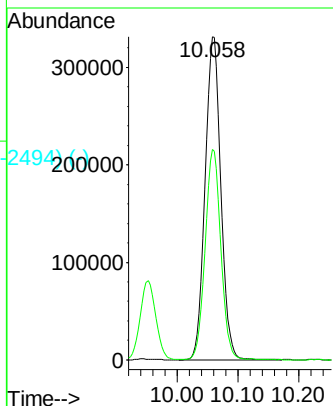
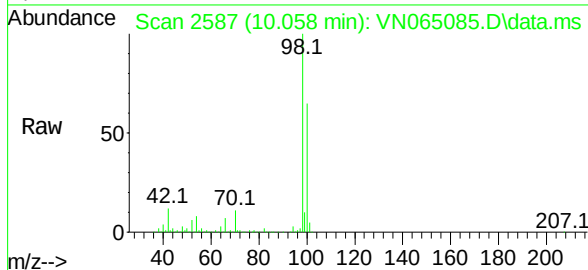
Toluene-d8  
Concen: 51.92 ug/l  
RT: 10.058 min Scan# 2587  
Delta R.T. -0.000 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion: 98 Resp: 604646  
Ion Ratio Lower Upper  
98 100  
100 64.4 51.7 77.5

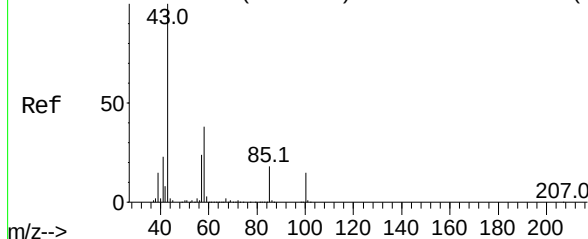
Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-2

Manual Integrations  
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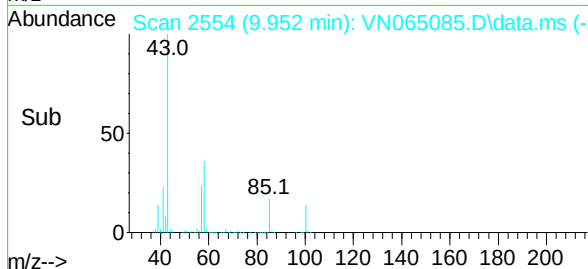
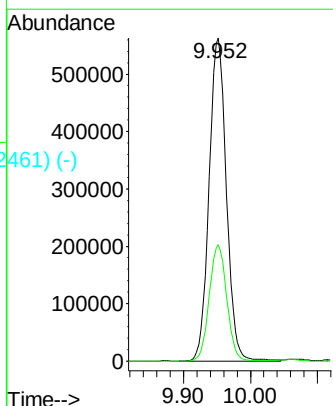
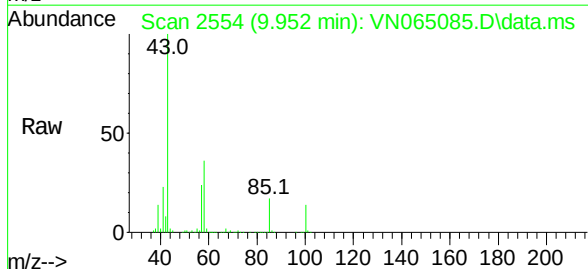


Abundance Scan 2554 (9.952 min): VN065073.D\data.ms (-2551) (-)



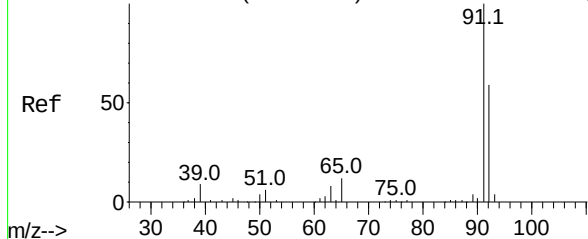
4-Methyl-2-Pentanone  
Concen: 263.92 ug/l  
RT: 9.952 min Scan# 2554  
Delta R.T. -0.000 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion: 43 Resp: 1004225  
Ion Ratio Lower Upper  
43 100  
58 36.5 32.4 48.6





Abundance Scan 2608 (10.126 min): VN065073.D\data.ms (-2552) (-)



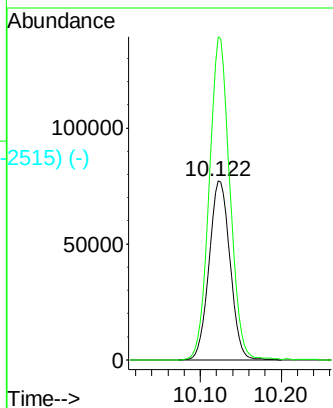
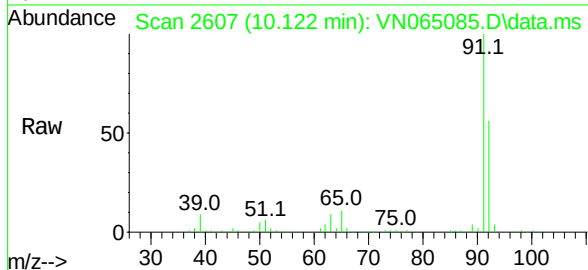
Toluene  
Concen: 16.86 ug/l  
RT: 10.122 min Scan# 2607  
Delta R.T. -0.004 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion: 92 Resp: 138805  
Ion Ratio Lower Upper  
92 100  
91 177.8 139.1 208.7

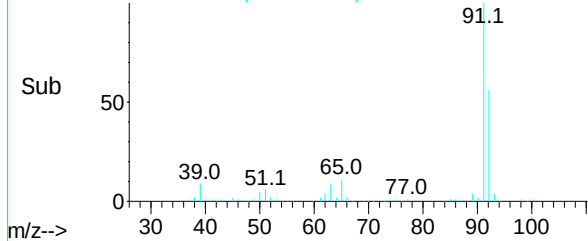
Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-2

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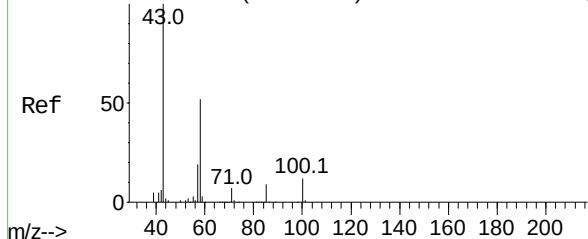
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Abundance Scan 2607 (10.122 min): VN065085.D\data.ms (-2515) (-)

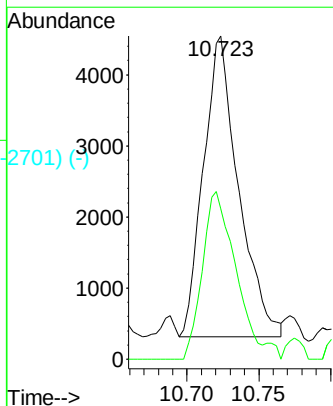
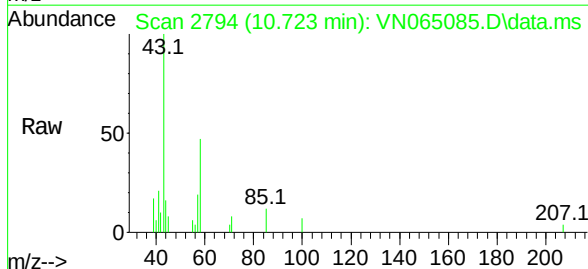


Abundance Scan 2794 (10.724 min): VN065073.D\data.ms (-2759) (-)

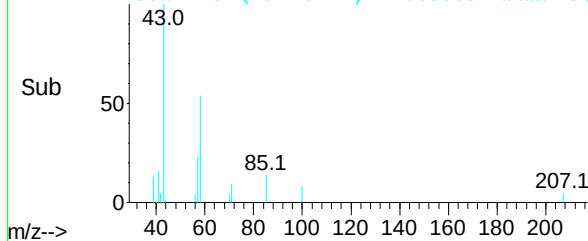


2-Hexanone  
Concen: 10.88 ug/l  
RT: 10.723 min Scan# 2794  
Delta R.T. -0.001 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion: 43 Resp: 7174  
Ion Ratio Lower Upper  
43 100  
58 52.1 28.3 84.9

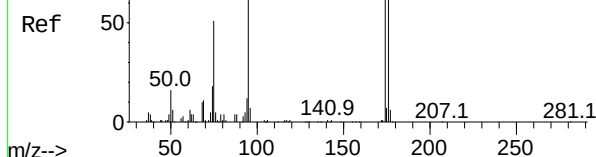


Abundance Scan 2794 (10.723 min): VN065085.D\data.ms (-2701) (-)

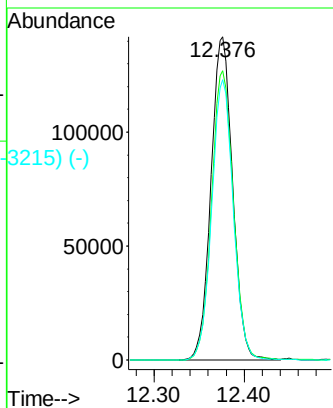
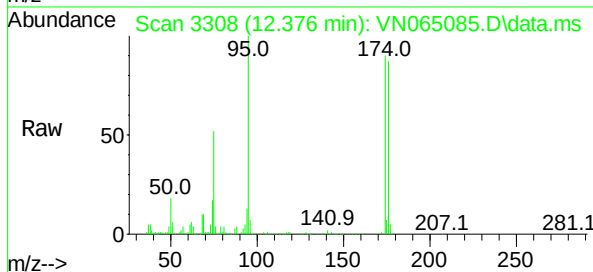


Abundance Scan 3308 (12.376 min): VN065073.D\data.ms (-3252) (-)

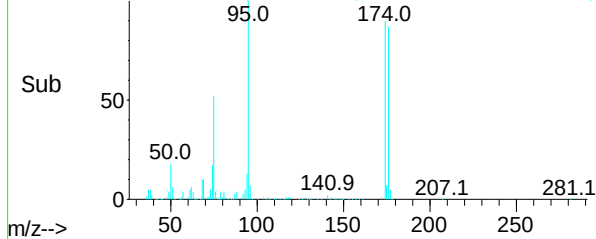
4-Bromofluorobenzene  
Concen: 58.11 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.000 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 90.2  | 0.0   | 160.4 |
| 176     | 86.1  | 0.0   | 158.4 |

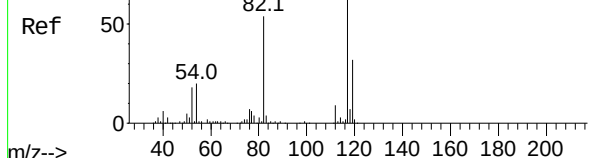


Abundance Scan 3308 (12.376 min): VN065085.D\data.ms (-3215) (-)

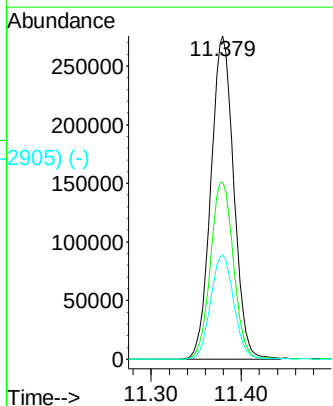
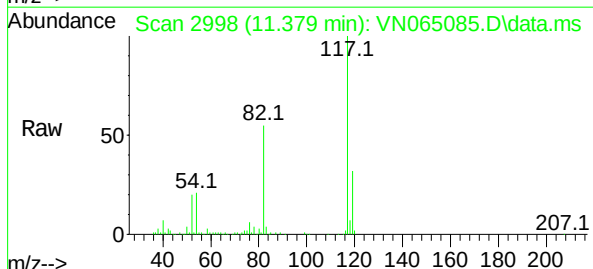


Abundance Scan 2998 (11.380 min): VN065073.D\data.ms (-2963) (-)

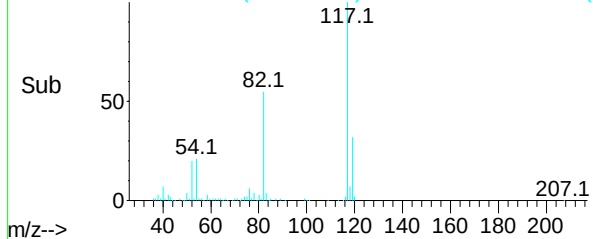
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.379 min Scan# 2998  
Delta R.T. -0.001 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.8  | 44.2  | 66.2  |
| 119     | 32.3  | 25.8  | 38.6  |



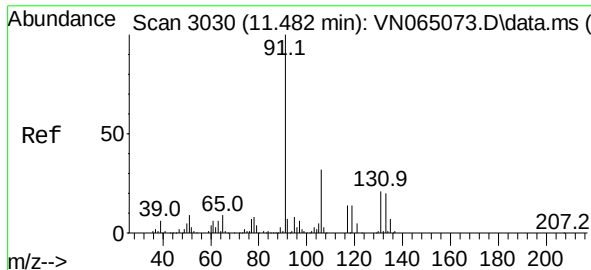
Abundance Scan 2998 (11.379 min): VN065085.D\data.ms (-2905) (-)



Instrument :  
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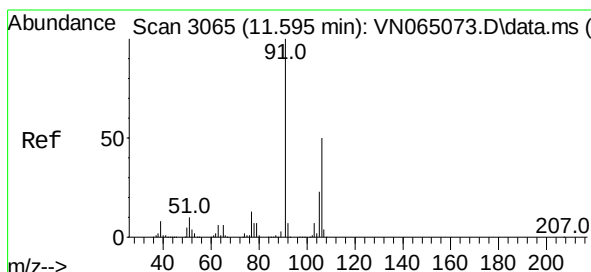
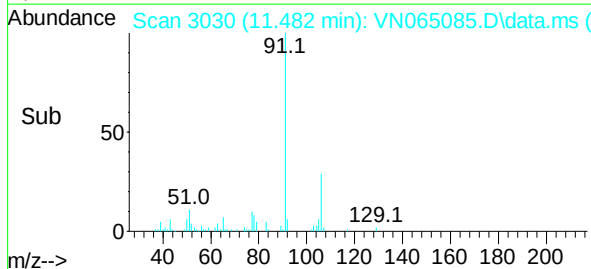
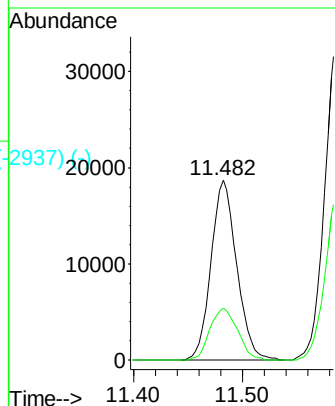
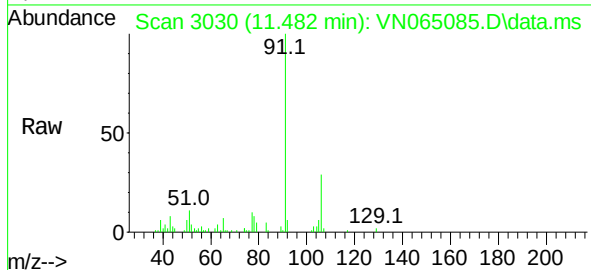
Ethyl Benzene  
Concen: 1.80 ug/l  
RT: 11.482 min Scan# 3030  
Delta R.T. 0.000 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion: 91 Resp: 30529  
Ion Ratio Lower Upper  
91 100  
106 28.7 25.2 37.8

Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-2

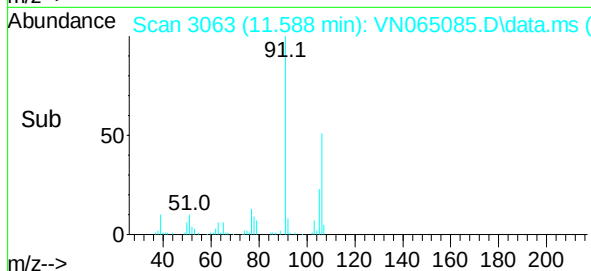
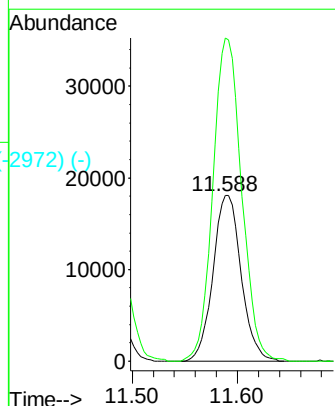
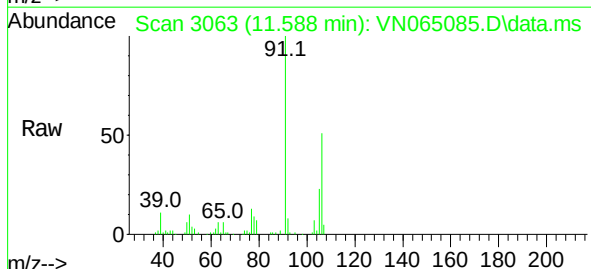
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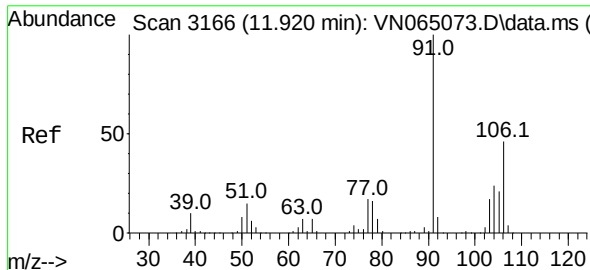
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m/p-Xylenes  
Concen: 5.07 ug/l  
RT: 11.588 min Scan# 3063  
Delta R.T. -0.007 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

Tgt Ion:106 Resp: 33540  
Ion Ratio Lower Upper  
106 100  
91 199.1 161.0 241.4





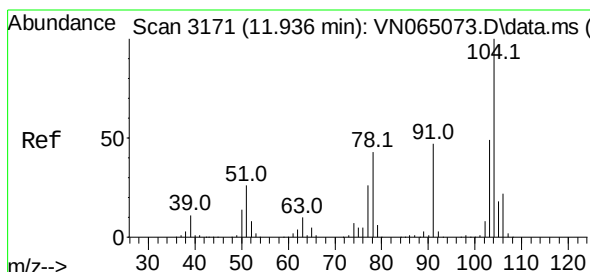
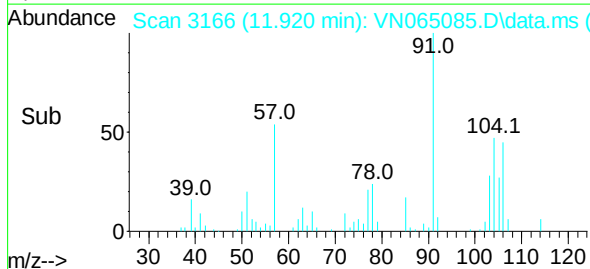
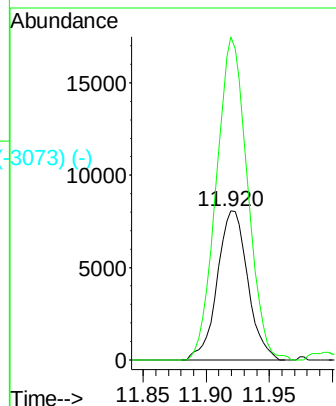
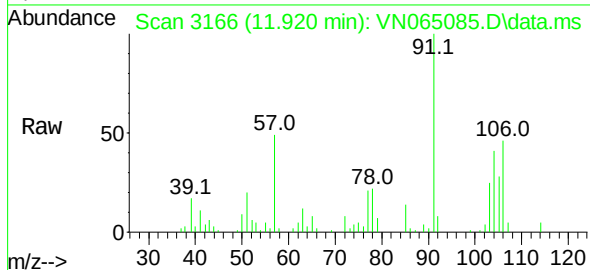
Scan 3166 (11.920 min): VN065073.D\data.ms (-3166) (-)  
 o-Xylene  
 Concen: 2.19 ug/l  
 RT: 11.920 min Scan# 3166  
 Delta R.T. -0.000 min  
 Lab File: VN065085.D  
 Acq: 11 Dec 2020 21:37

Tgt Ion:106 Resp: 13536  
 Ion Ratio Lower Upper  
 106 100  
 91 221.4 105.5 316.5

Instrument :  
 MSVOA\_N  
 ClientSampled :  
 COMP-2

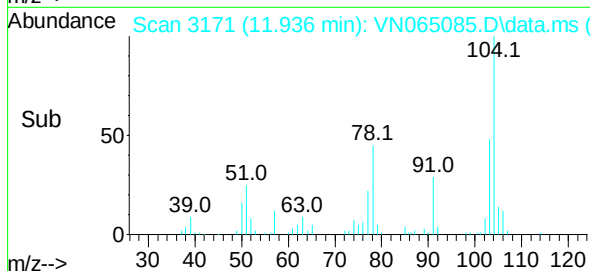
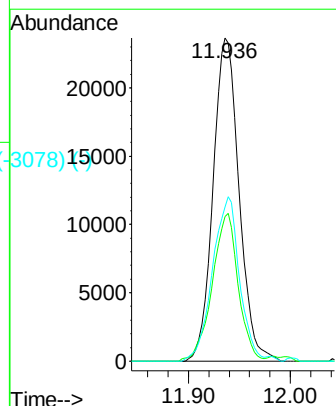
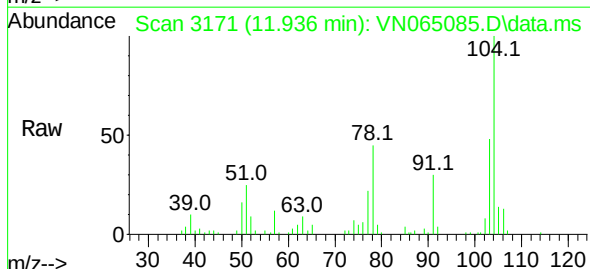
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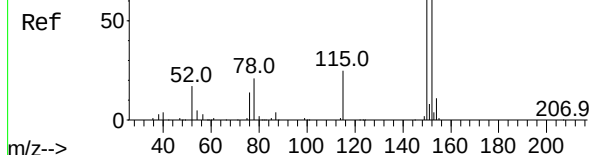
Scan 3171 (11.936 min): VN065073.D\data.ms (-3171) (-)  
 Styrene  
 Concen: 5.39 ug/l  
 RT: 11.936 min Scan# 3171  
 Delta R.T. -0.000 min  
 Lab File: VN065085.D  
 Acq: 11 Dec 2020 21:37

Tgt Ion:104 Resp: 41903  
 Ion Ratio Lower Upper  
 104 100  
 78 45.6 39.0 58.6  
 103 53.2 44.3 66.5

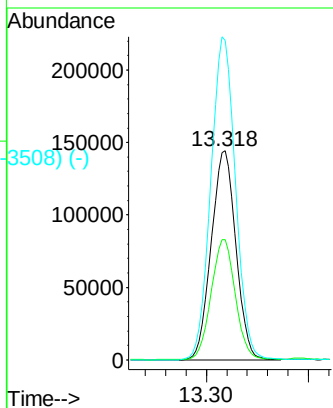
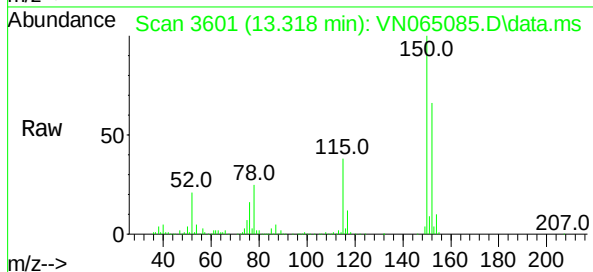


Abundance Scan 3601 (13.318 min): VN065073.D\data.ms (-3576) (-)

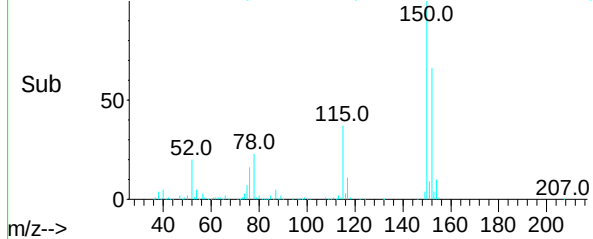
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.318 min Scan# 3601  
Delta R.T. 0.000 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37



Tgt Ion:152 Resp: 242765  
Ion Ratio Lower Upper  
152 100  
115 56.1 29.7 89.1  
150 154.9 0.0 350.6

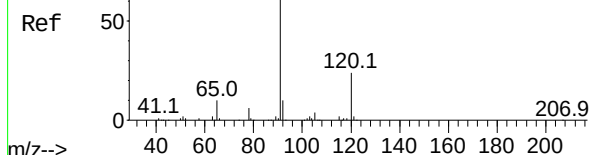


Abundance Scan 3601 (13.318 min): VN065085.D\data.ms (-3508) (-)

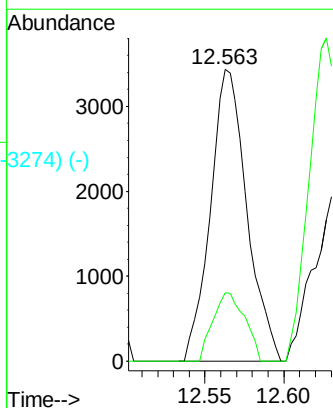
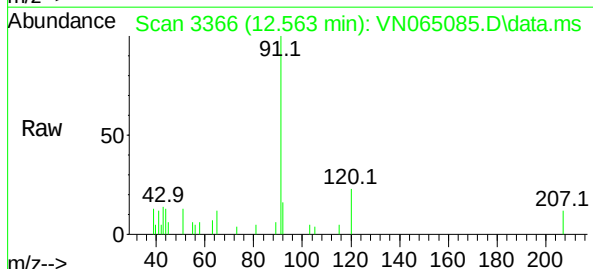


Abundance Scan 3367 (12.566 min): VN065073.D\data.ms (-3575) (-)

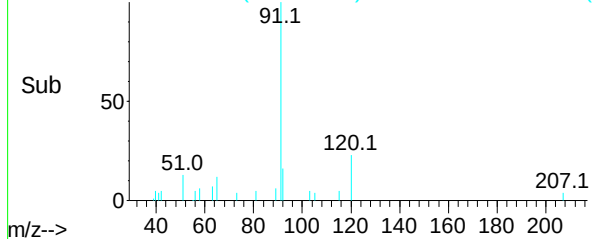
n-propylbenzene  
Concen: 0.31 ug/l  
RT: 12.563 min Scan# 3366  
Delta R.T. -0.003 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37



Tgt Ion: 91 Resp: 5532  
Ion Ratio Lower Upper  
91 100  
120 20.5 11.6 34.7



Abundance Scan 3366 (12.563 min): VN065085.D\data.ms (-3274) (-)



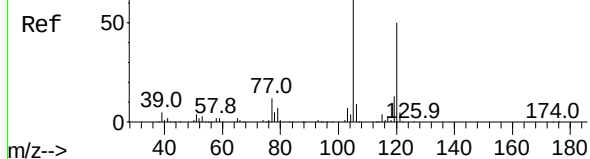
Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-2

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Abundance Scan 3411 (12.707 min): VN065073.D\data.ms (-3339) (-)

1,3,5-Trimethylbenzene  
Concen: 1.01 ug/l  
RT: 12.707 min Scan# 3411  
Delta R.T. 0.000 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

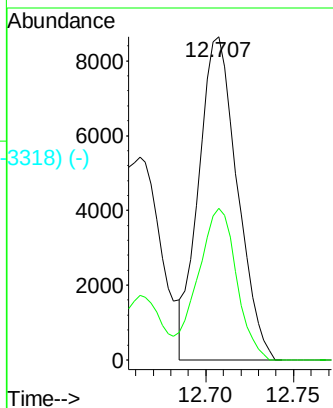
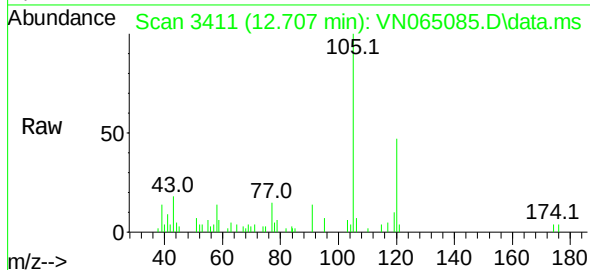


Tgt Ion:105 Resp: 13212  
Ion Ratio Lower Upper  
105 100  
120 47.1 24.6 73.6

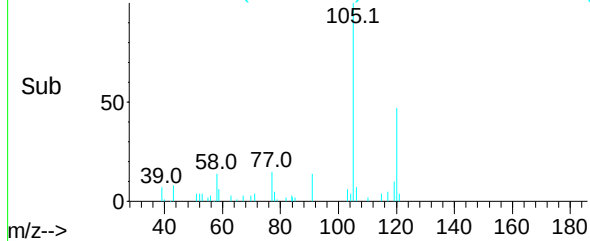
Instrument :  
MSVOA\_N  
ClientSampled :  
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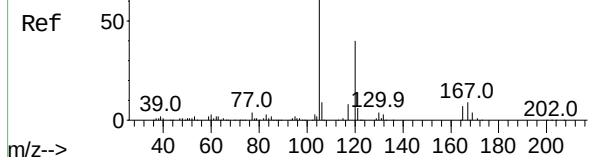


Abundance Scan 3411 (12.707 min): VN065085.D\data.ms (-3318) (-)

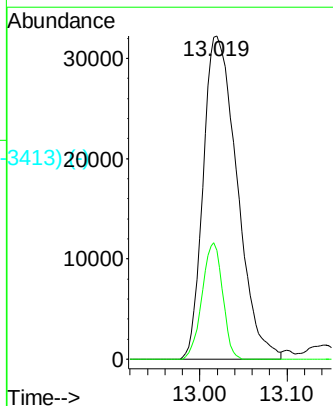
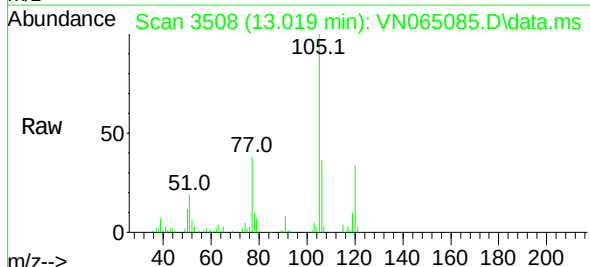


Abundance Scan 3506 (13.013 min): VN065073.D\data.ms (-3434) (-)

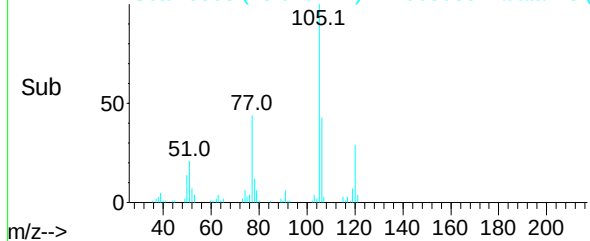
1,2,4-Trimethylbenzene  
Concen: 6.58 ug/l m  
RT: 13.019 min Scan# 3508  
Delta R.T. 0.006 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

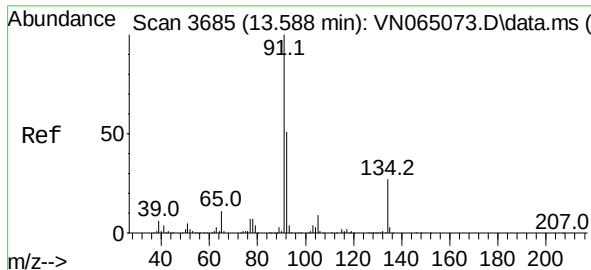


Tgt Ion:105 Resp: 86505  
Ion Ratio Lower Upper  
105 100  
120 2.8 23.1 69.2#



Abundance Scan 3508 (13.019 min): VN065085.D\data.ms (-3413) (-)





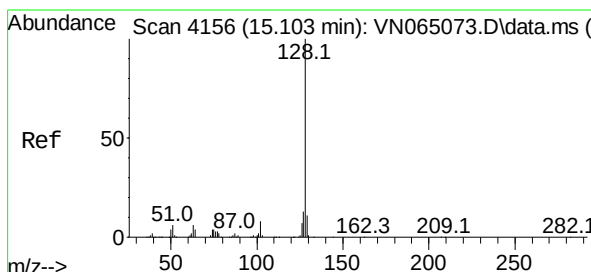
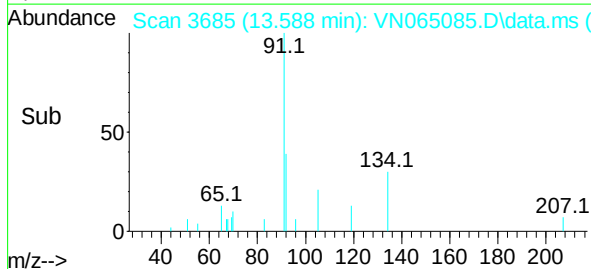
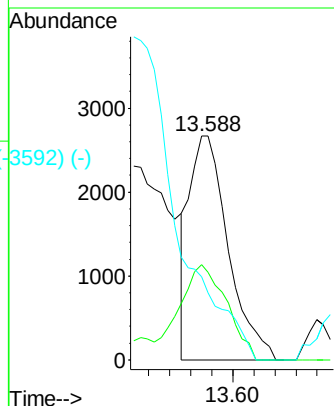
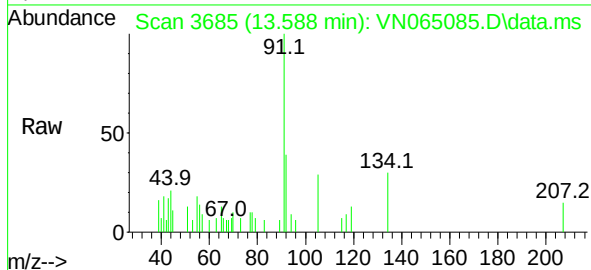
n-Butylbenzene  
Concen: 0.32 ug/l  
RT: 13.588 min Scan# 3685  
Delta R.T. 0.000 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 3399  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 52.0  | 26.0  | 78.0  |
| 134      | 0.0   | 12.9  | 38.6# |

Instrument :  
MSVOA\_N  
ClientSampled :  
COMP-2

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Naphthalene  
Concen: 28.66 ug/l  
RT: 15.103 min Scan# 4156  
Delta R.T. -0.000 min  
Lab File: VN065085.D  
Acq: 11 Dec 2020 21:37

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 318894 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 12.4  | 10.3  | 15.5   |
| 129      | 10.7  | 8.7   | 13.1   |

