

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122420\  
 Data File : VN065257.D  
 Acq On : 24 Dec 2020 13:24  
 Operator : JC/MD  
 Sample : L5176-05  
 Misc : 1.33g/5mL/100uL/5.00mL/MSVOA\_N/MECH  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CHRT-26920ME

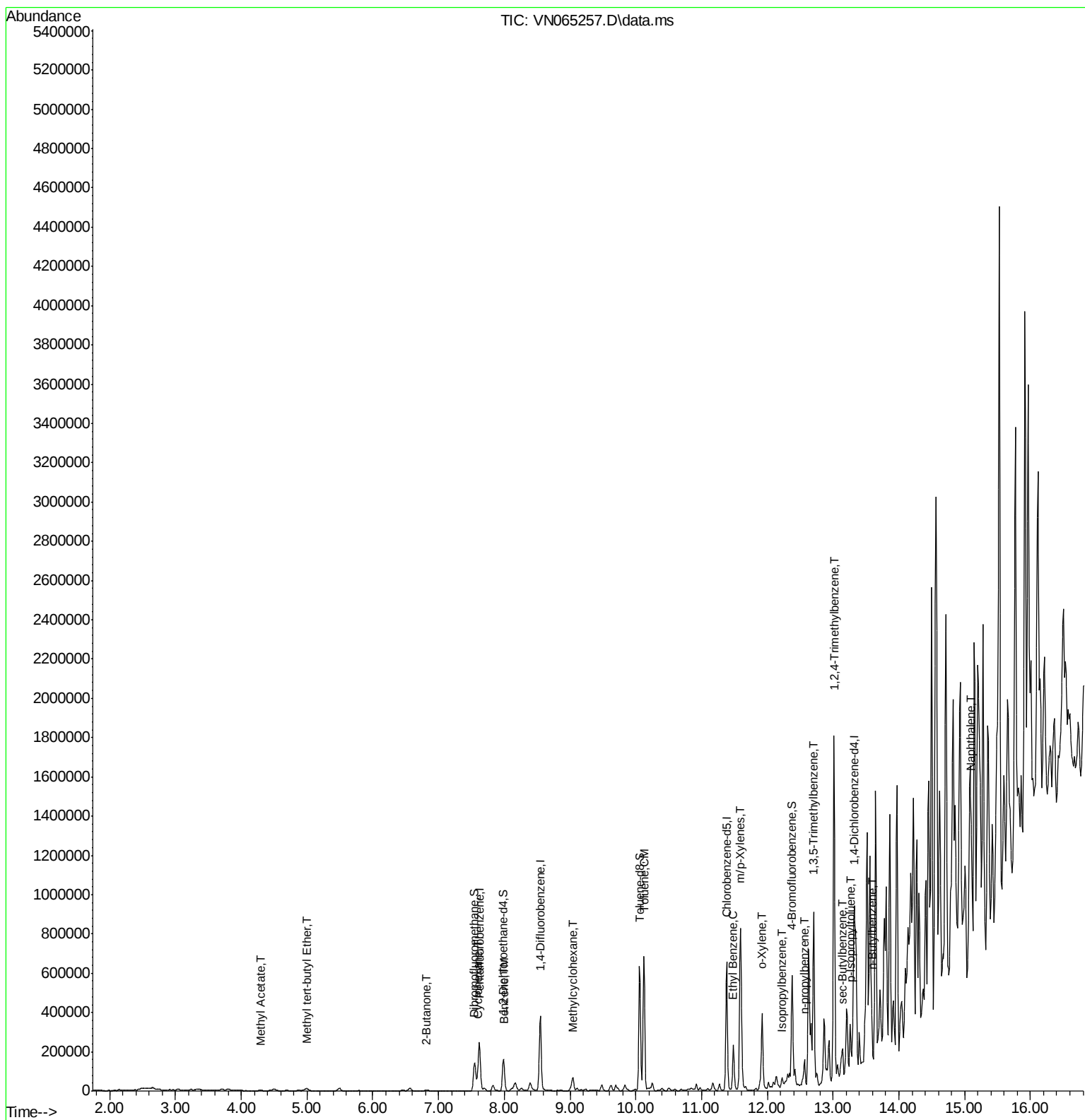
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 Quant Title : Sw846 8260  
 QLast Update : Tue Dec 22 15:42:18 2020  
 Response via : Initial Calibration

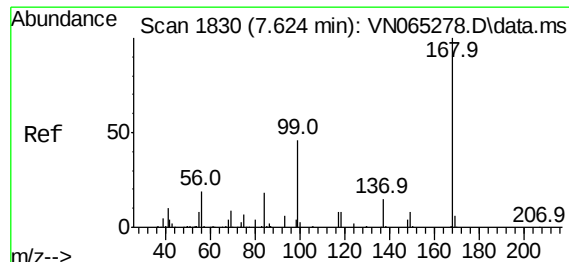
| Compound                    | R.T.           | QIon | Response           | Conc  | Units  | Dev(Min) |
|-----------------------------|----------------|------|--------------------|-------|--------|----------|
| -----                       |                |      |                    |       |        |          |
| Internal Standards          |                |      |                    |       |        |          |
| 1) Pentafluorobenzene       | 7.624          | 168  | 210986             | 50.00 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.547          | 114  | 354813             | 50.00 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.380         | 117  | 384436             | 50.00 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.318         | 152  | 200445             | 50.00 | ug/l   | 0.00     |
|                             |                |      |                    |       |        |          |
| System Monitoring Compounds |                |      |                    |       |        |          |
| 33) 1,2-Dichloroethane-d4   | 7.984          | 65   | 124065             | 52.09 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 61 - 141 |      | Recovery = 104.18% |       |        |          |
| 35) Dibromofluoromethane    | 7.547          | 113  | 106287             | 49.65 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 69 - 133 |      | Recovery = 99.30%  |       |        |          |
| 50) Toluene-d8              | 10.058         | 98   | 441392             | 55.02 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 65 - 126 |      | Recovery = 110.04% |       |        |          |
| 62) 4-Bromofluorobenzene    | 12.376         | 95   | 192514             | 59.58 | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 135 |      | Recovery = 119.16% |       |        |          |
|                             |                |      |                    |       |        |          |
| Target Compounds            |                |      |                    |       |        |          |
| 18) Methyl Acetate          | 4.290          | 43   | 5229               | 2.44  | ug/l # | 84       |
| 19) Methyl tert-butyl Ether | 5.000          | 73   | 16336              | 2.48  | ug/l # | 74       |
| 25) 2-Butanone              | 6.814          | 43   | 10962              | 8.20  | ug/l   | 93       |
| 31) Cyclohexane             | 7.602          | 56   | 19310              | 5.49  | ug/l # | 83       |
| 39) Methylcyclohexane       | 9.042          | 83   | 26555              | 6.85  | ug/l   | 98       |
| 40) Benzene                 | 8.000          | 78   | 27198              | 2.83  | ug/l   | 97       |
| 52) Toluene                 | 10.122         | 92   | 304719             | 50.38 | ug/l   | 100      |
| 67) Ethyl Benzene           | 11.483         | 91   | 171045             | 12.13 | ug/l   | 100      |
| 68) m/p-Xylenes             | 11.592         | 106  | 265407             | 49.96 | ug/l   | 100      |
| 69) o-Xylene                | 11.920         | 106  | 106990             | 20.75 | ug/l   | 97       |
| 73) Isopropylbenzene        | 12.222         | 105  | 27084              | 1.77  | ug/l   | 99       |
| 78) n-propylbenzene         | 12.566         | 91   | 118106             | 6.85  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene  | 12.708         | 105  | 231876             | 17.81 | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.013         | 105  | 991776             | 78.25 | ug/l   | 99       |
| 85) sec-Butylbenzene        | 13.145         | 105  | 83239              | 5.66  | ug/l   | 86       |
| 86) p-Isopropyltoluene      | 13.264         | 119  | 51577              | 3.82  | ug/l   | 100      |
| 89) n-Butylbenzene          | 13.589         | 91   | 121894             | 10.57 | ug/l # | 71       |
| 95) Naphthalene             | 15.097         | 128  | 373094             | 36.87 | ug/l # | 95       |
| -----                       |                |      |                    |       |        |          |

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

**Instrument :**  
MSVOA\_N  
**ClientSampleId :**  
CHRT-26920ME

Quant Time: Dec 25 02:36:32 2020  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122220w.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 22 15:42:18 2020  
Response via : Initial Calibration

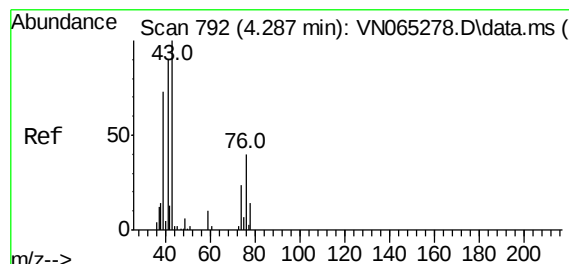
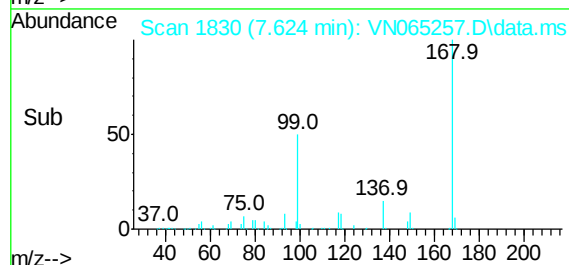
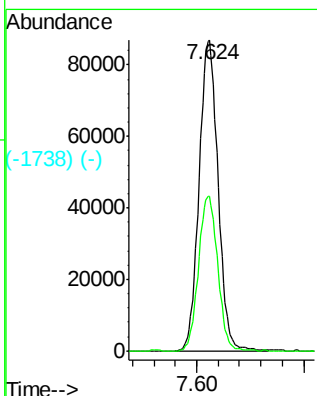
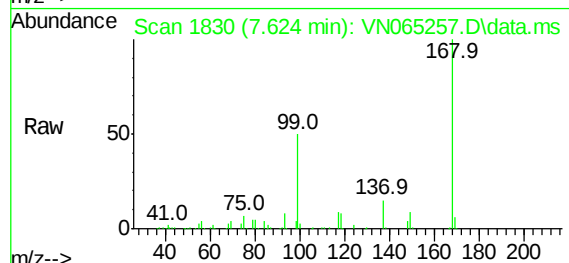




Pentafuorobenzene  
Concen: 50.00 ug/l  
RT: 7.624 min Scan# 1830  
Delta R.T. -0.003 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

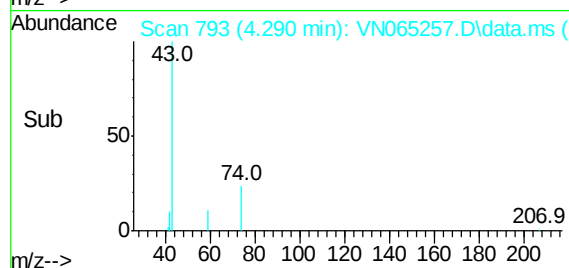
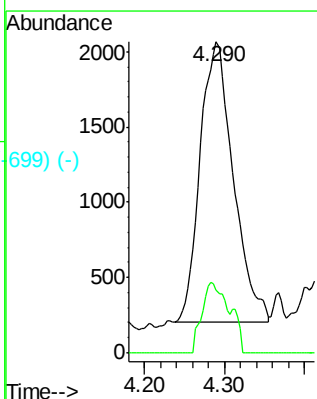
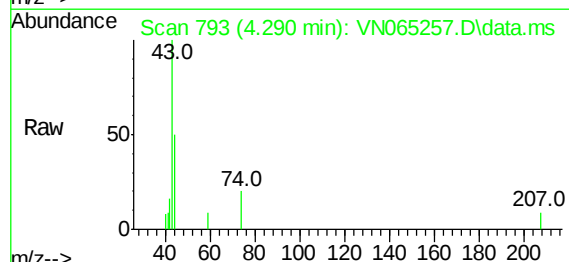
Instrument :  
MSVOA\_N  
ClientSampleId :  
CHRT-26920ME

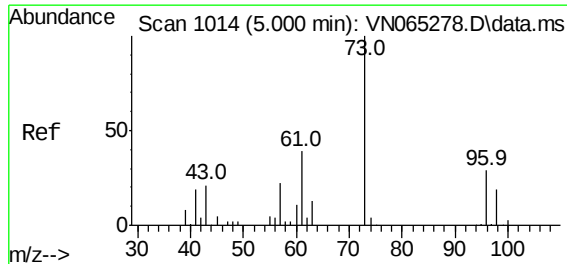
Tgt Ion:168 Resp: 210986  
Ion Ratio Lower Upper  
168 100  
99 49.6 43.0 64.4



Methyl Acetate  
Concen: 2.44 ug/l  
RT: 4.290 min Scan# 793  
Delta R.T. 0.003 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

Tgt Ion: 43 Resp: 5229  
Ion Ratio Lower Upper  
43 100  
74 17.2 20.2 30.2#

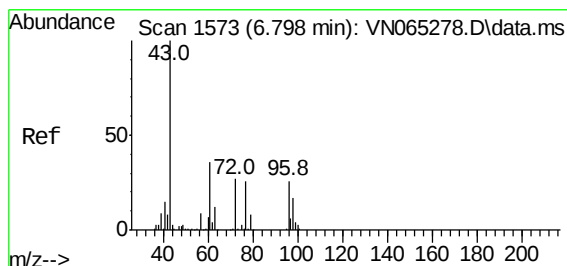
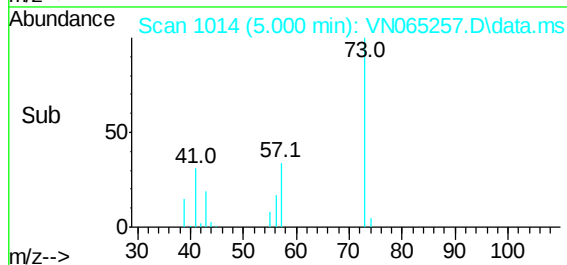
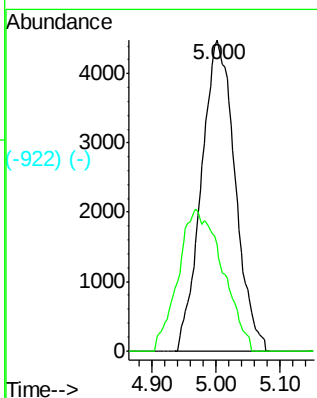
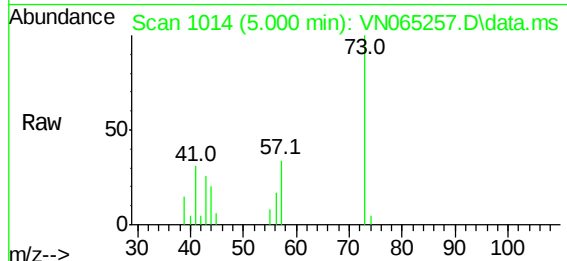




(-922) (-)  
Methyl tert-butyl Ether  
Concen: 2.48 ug/l  
RT: 5.000 min Scan# 1014  
Delta R.T. -0.004 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

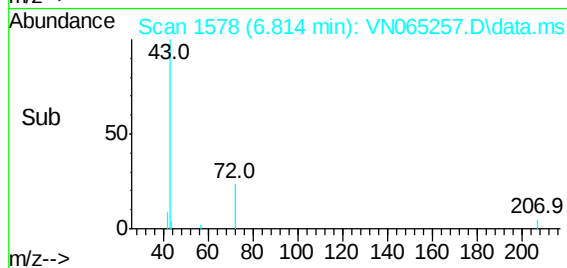
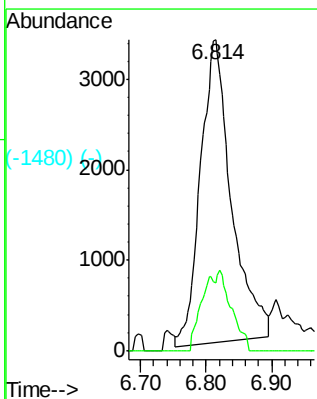
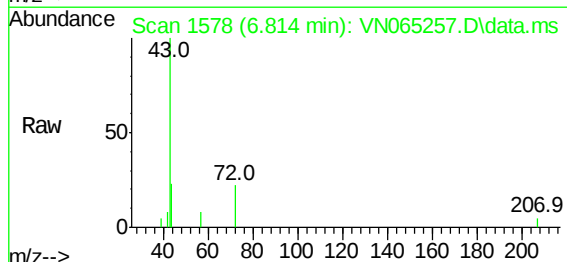
Instrument :  
MSVOA\_N  
ClientSampleId :  
CHRT-26920ME

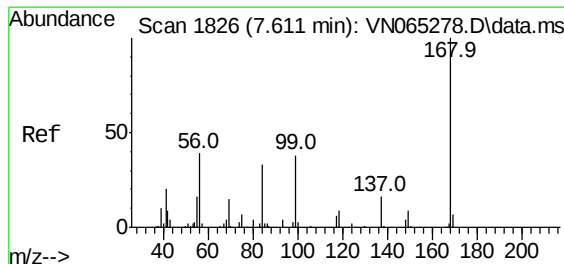
Tgt Ion: 73 Resp: 16336  
Ion Ratio Lower Upper  
73 100  
57 34.0 17.4 26.0#



(-1480) (-)  
2-Butanone  
Concen: 8.20 ug/l  
RT: 6.814 min Scan# 1578  
Delta R.T. 0.016 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

Tgt Ion: 43 Resp: 10962  
Ion Ratio Lower Upper  
43 100  
72 22.9 21.0 31.6

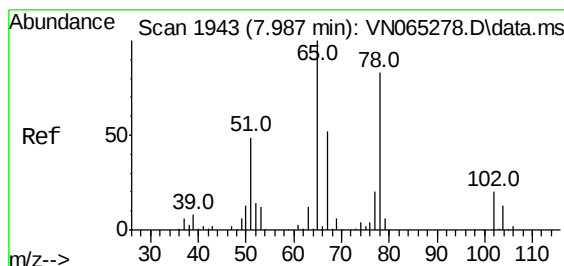
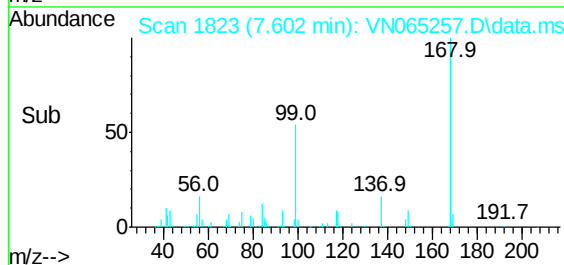
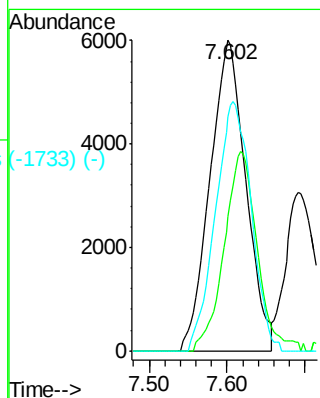
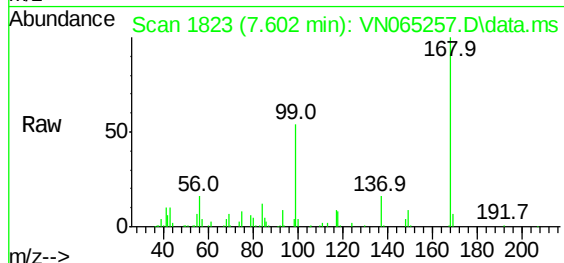




#186 (-)  
Cyclohexane  
Concen: 5.49 ug/l  
RT: 7.602 min Scan# 1823  
Delta R.T. -0.009 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

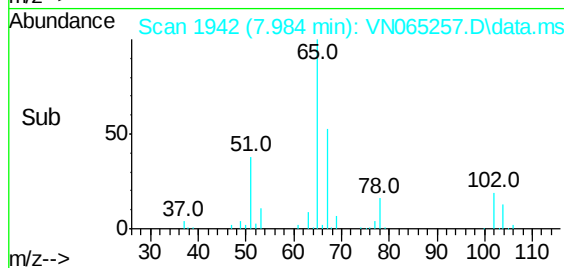
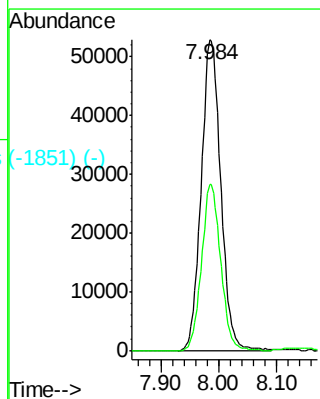
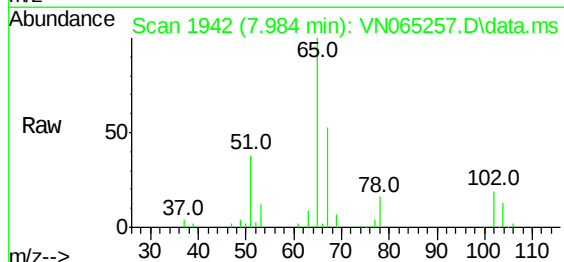
Instrument :  
MSVOA\_N  
ClientSampleId :  
CHRT-26920ME

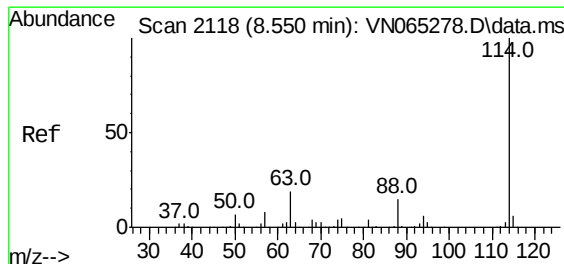
Tgt Ion: 56 Resp: 19310  
Ion Ratio Lower Upper  
56 100  
69 43.3 27.5 41.3#  
84 75.3 73.9 110.9



#192 (-)  
1,2-Dichloroethane-d4  
Concen: 52.09 ug/l  
RT: 7.984 min Scan# 1942  
Delta R.T. -0.007 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

Tgt Ion: 65 Resp: 124065  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 108.2

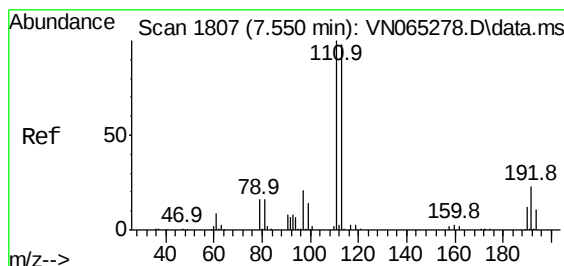
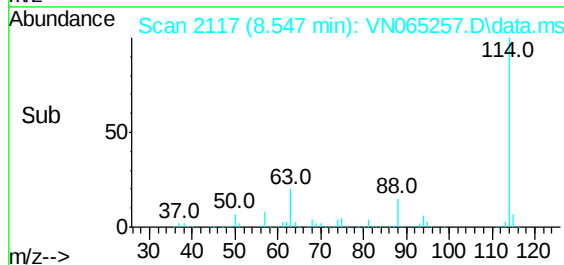
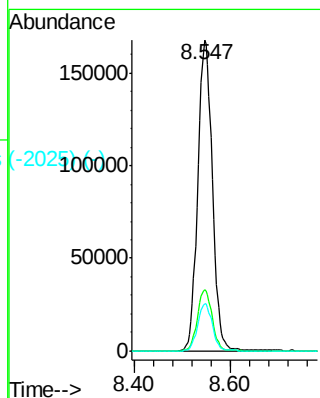
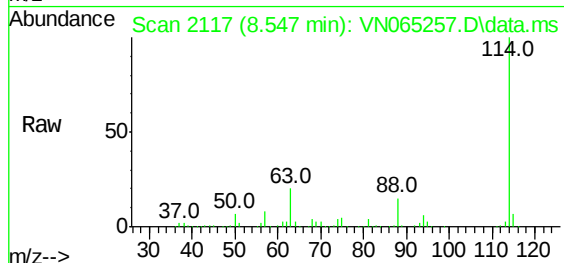




#240 (-)  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.547 min Scan# 2117  
Delta R.T. -0.003 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

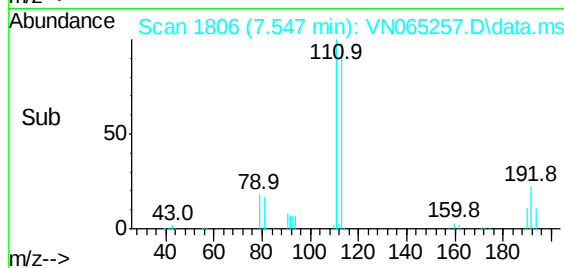
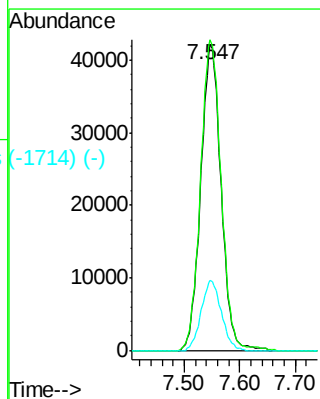
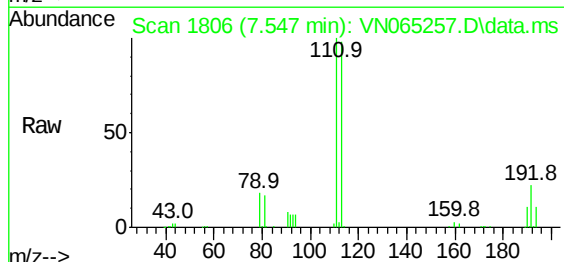
Instrument :  
MSVOA\_N  
ClientSampleId :  
CHRT-26920ME

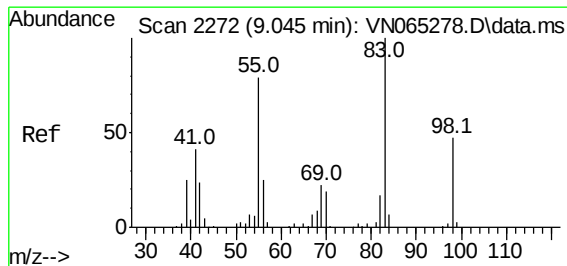
Tgt Ion:114 Resp: 354813  
Ion Ratio Lower Upper  
114 100  
63 19.6 0.0 38.6  
88 15.3 0.0 32.6



#258 (-)  
Dibromofluoromethane  
Concen: 49.65 ug/l  
RT: 7.547 min Scan# 1806  
Delta R.T. -0.003 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

Tgt Ion:113 Resp: 106287  
Ion Ratio Lower Upper  
113 100  
111 102.4 81.6 122.4  
192 22.8 16.2 24.2

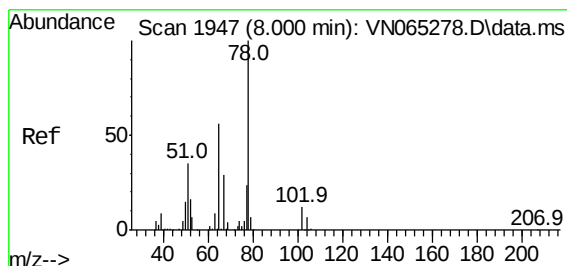
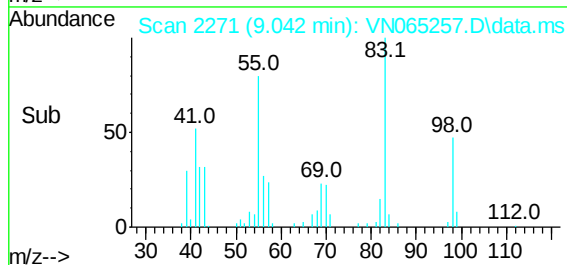
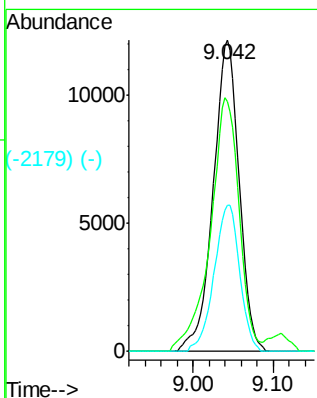
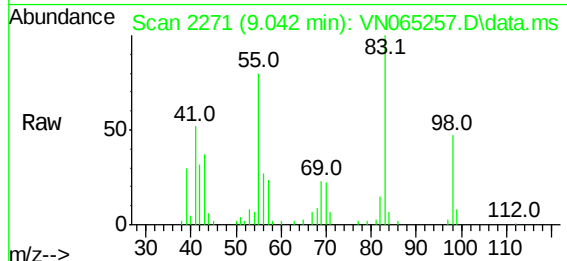




#296 (-)  
Methylcyclohexane  
Concen: 6.85 ug/l  
RT: 9.042 min Scan# 2271  
Delta R.T. -0.003 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

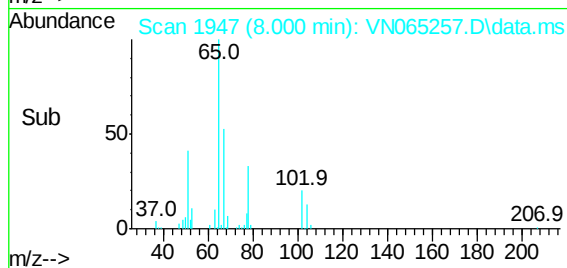
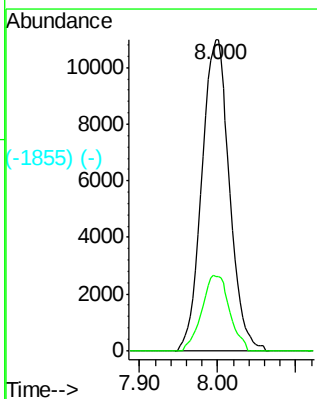
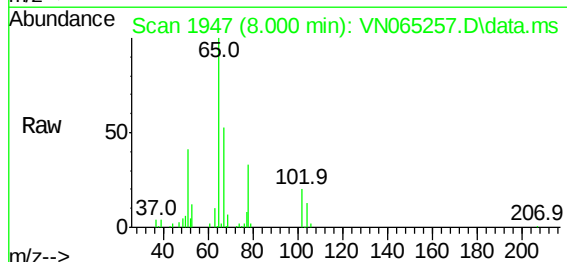
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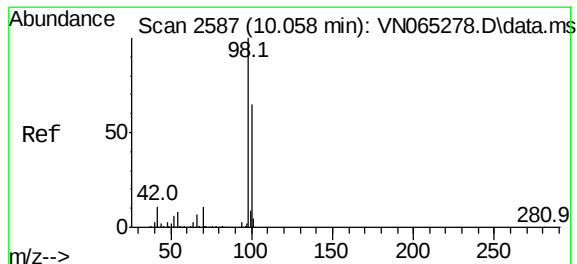
Tgt Ion: 83 Resp: 26555  
Ion Ratio Lower Upper  
83 100  
55 78.2 60.2 90.2  
98 47.0 37.4 56.2



#409 (-)  
Benzene  
Concen: 2.83 ug/l  
RT: 8.000 min Scan# 1947  
Delta R.T. -0.004 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

Tgt Ion: 78 Resp: 27198  
Ion Ratio Lower Upper  
78 100  
77 23.8 17.9 26.9

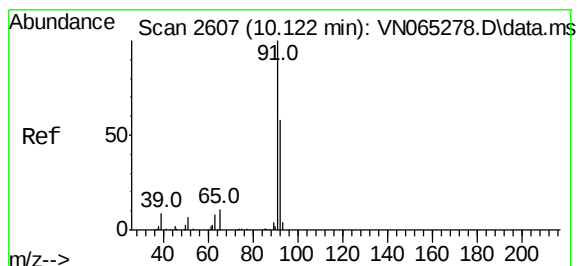
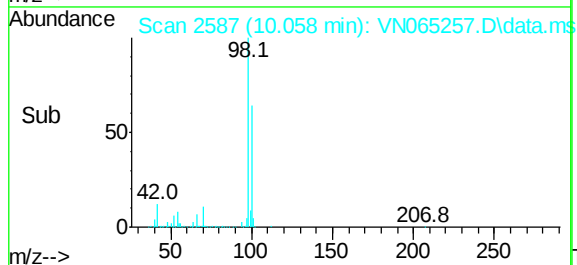
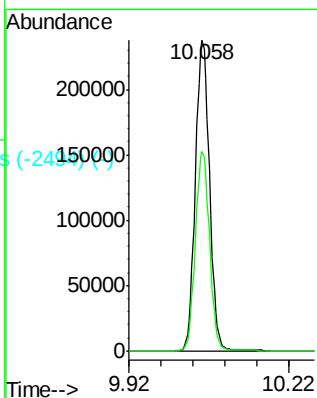
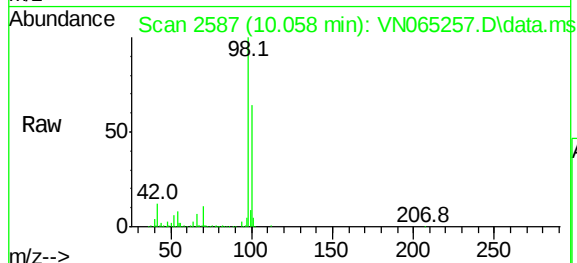




#5971 (-)  
Toluene-d8  
Concen: 55.02 ug/l  
RT: 10.058 min Scan# 2587  
Delta R.T. 0.000 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

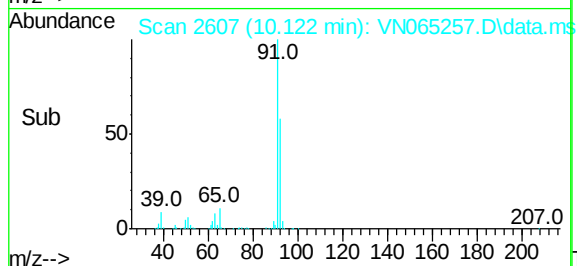
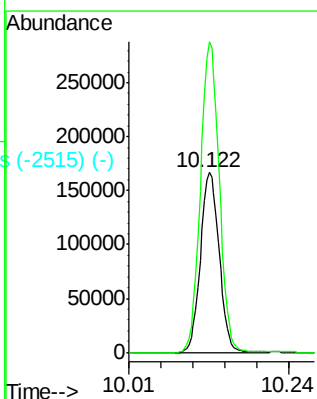
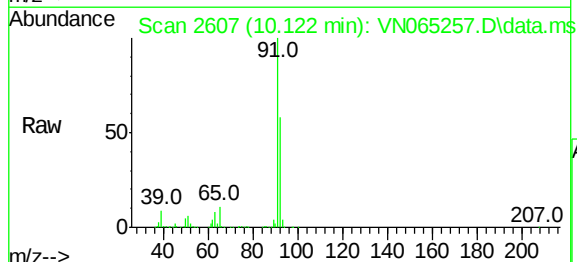
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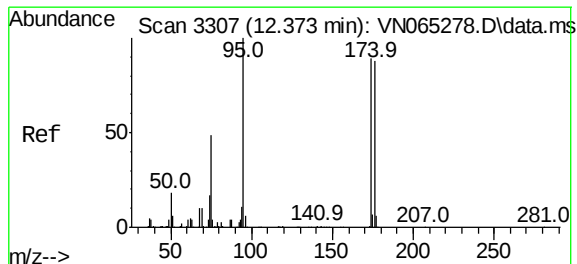
Tgt Ion: 98 Resp: 441392  
Ion Ratio Lower Upper  
98 100  
100 64.2 51.7 77.5



#5993 (-)  
Toluene  
Concen: 50.38 ug/l  
RT: 10.122 min Scan# 2607  
Delta R.T. -0.004 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

Tgt Ion: 92 Resp: 304719  
Ion Ratio Lower Upper  
92 100  
91 174.3 139.1 208.7

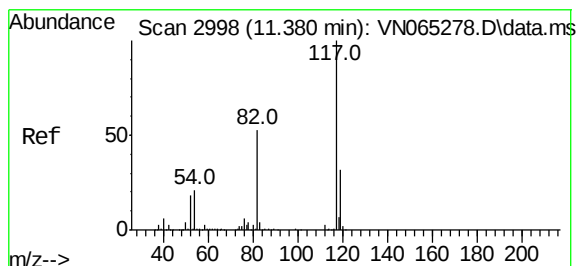
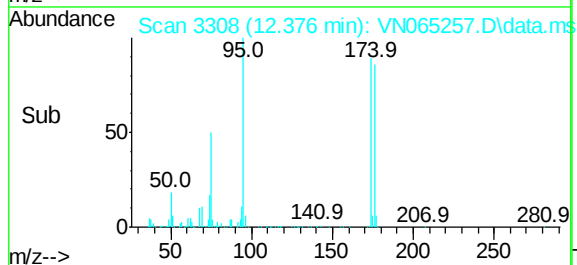
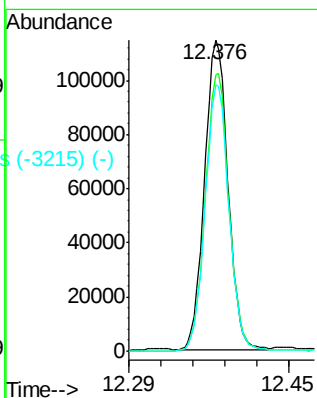
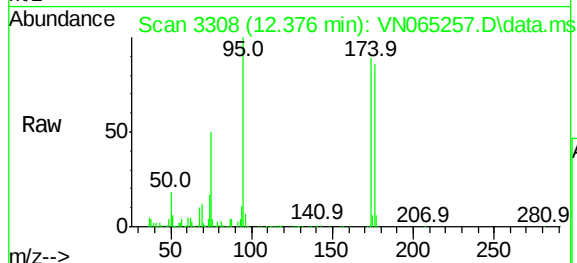




#6293 (-)  
4-Bromofluorobenzene  
Concen: 59.58 ug/l  
RT: 12.376 min Scan# 3308  
Delta R.T. 0.000 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

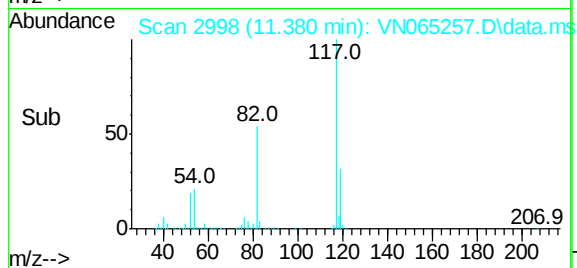
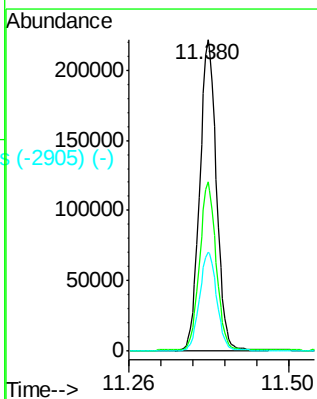
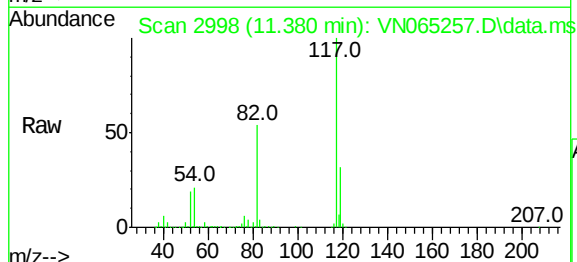
Instrument :  
MSVOA\_N  
ClientSampleId :  
CHRT-26920ME

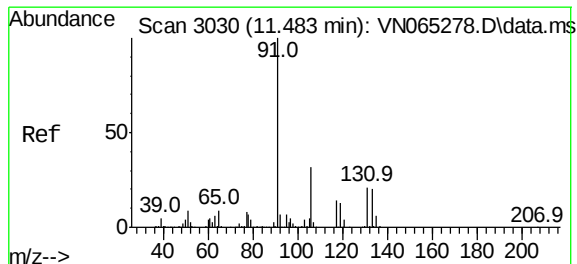
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 95    | Resp: | 192514 |
| Ion      | Ratio | Lower | Upper  |
| 95       | 100   |       |        |
| 174      | 90.6  | 0.0   | 160.4  |
| 176      | 87.2  | 0.0   | 158.4  |



#6293 (-)  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.380 min Scan# 2998  
Delta R.T. -0.000 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 384436 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 54.0  | 44.2  | 66.2   |
| 119      | 31.8  | 25.8  | 38.6   |

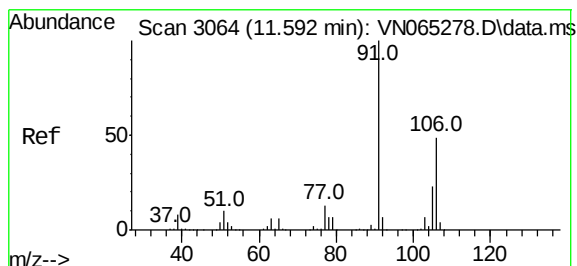
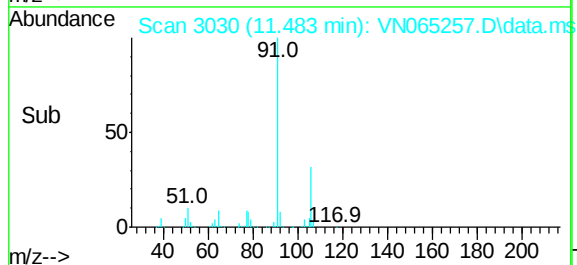
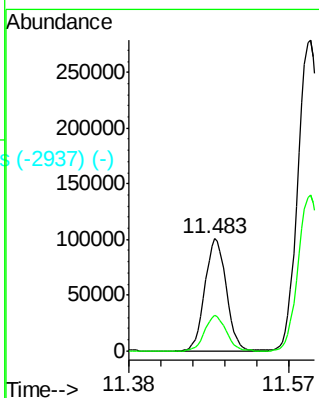
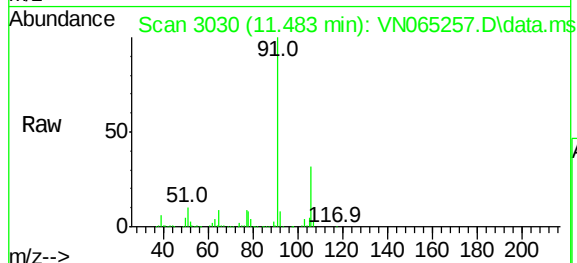




#6716 (-)  
Ethyl Benzene  
Concen: 12.13 ug/l  
RT: 11.483 min Scan# 3030  
Delta R.T. 0.001 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

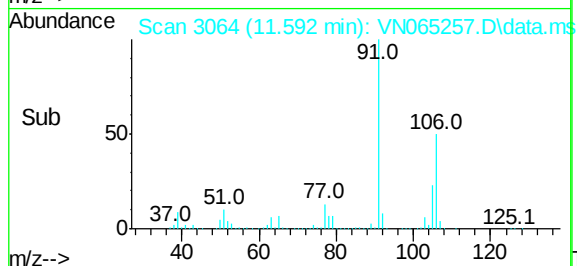
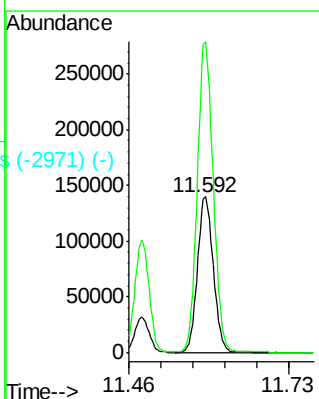
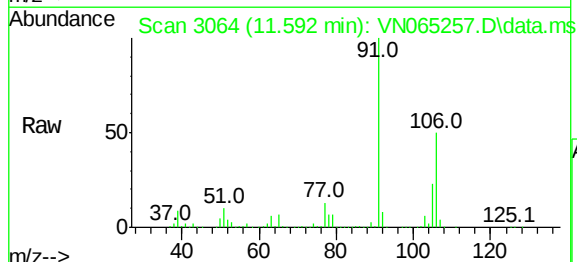
Instrument :  
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ClientSampleId :  
CHRT-26920ME

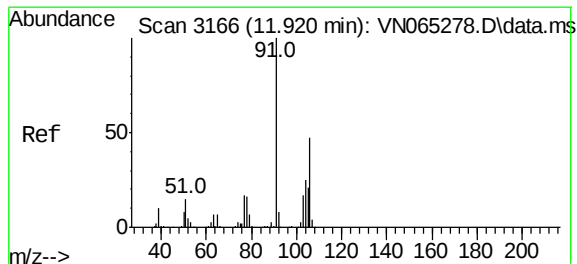
Tgt Ion: 91 Resp: 171045  
Ion Ratio Lower Upper  
91 100  
106 31.8 25.2 37.8



#6649 (-)  
m/p-Xylenes  
Concen: 49.96 ug/l  
RT: 11.592 min Scan# 3064  
Delta R.T. -0.000 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

Tgt Ion: 106 Resp: 265407  
Ion Ratio Lower Upper  
106 100  
91 200.5 161.0 241.4

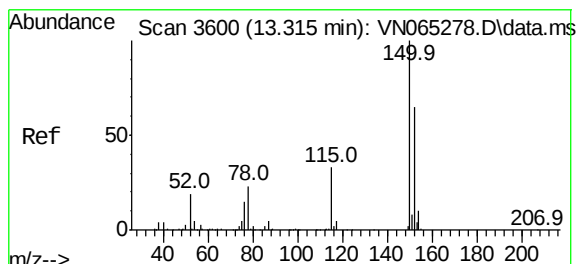
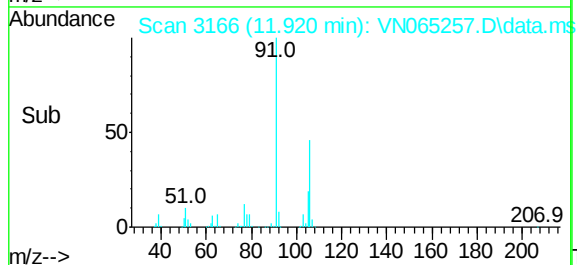
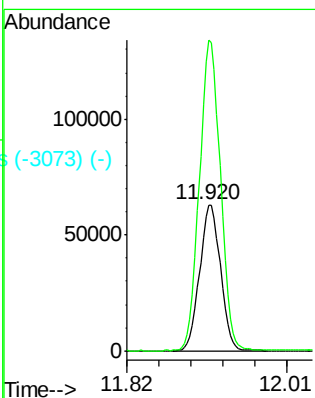
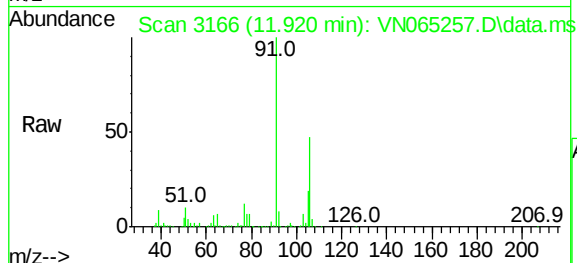




#693 (-)  
o-Xylene  
Concen: 20.75 ug/l  
RT: 11.920 min Scan# 3166  
Delta R.T. -0.000 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

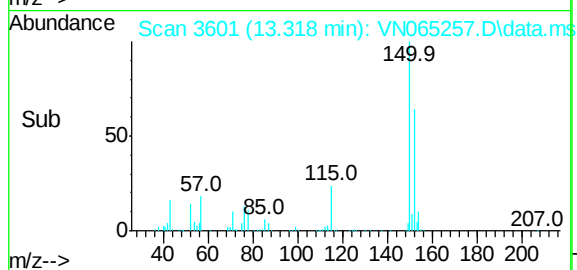
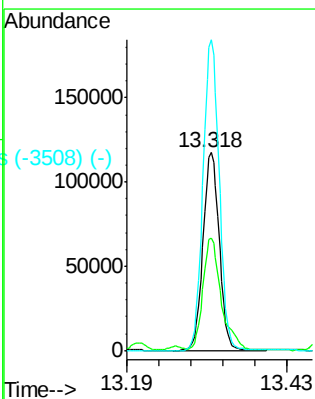
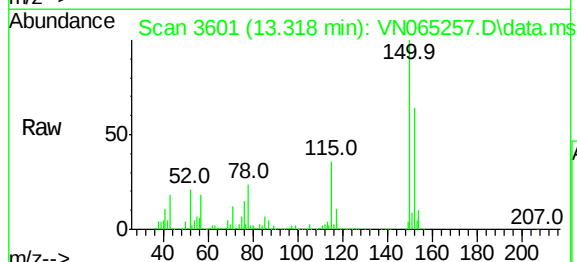
Instrument :  
MSVOA\_N  
ClientSampleId :  
CHRT-26920ME

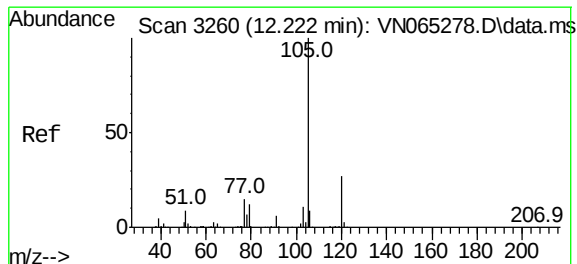
Tgt Ion:106 Resp: 106990  
Ion Ratio Lower Upper  
106 100  
91 215.7 105.5 316.5



#738 (-)  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.318 min Scan# 3601  
Delta R.T. 0.000 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

Tgt Ion:152 Resp: 200445  
Ion Ratio Lower Upper  
152 100  
115 63.9 29.7 89.1  
150 156.8 0.0 350.6

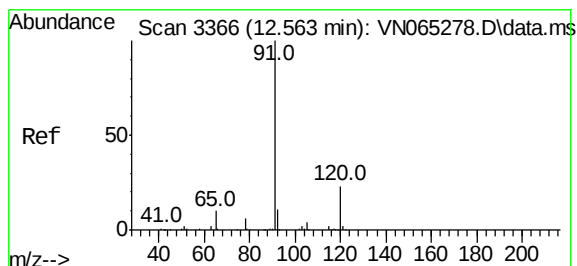
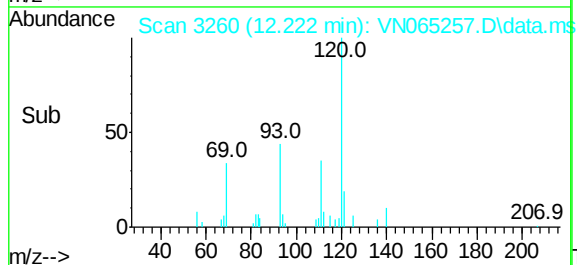
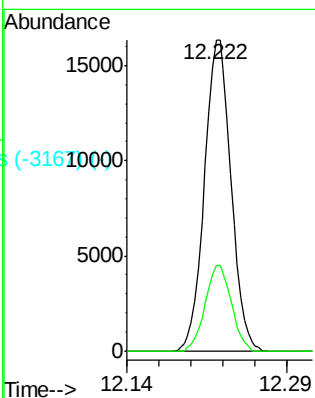
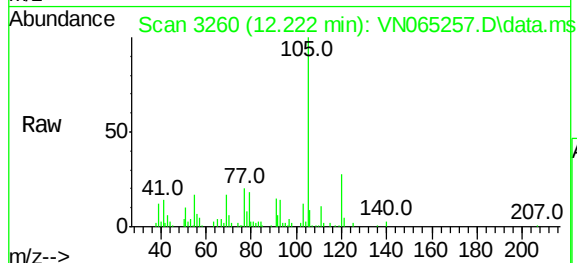




#3246 (-)  
Isopropylbenzene  
Concen: 1.77 ug/l  
RT: 12.222 min Scan# 3260  
Delta R.T. 0.000 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

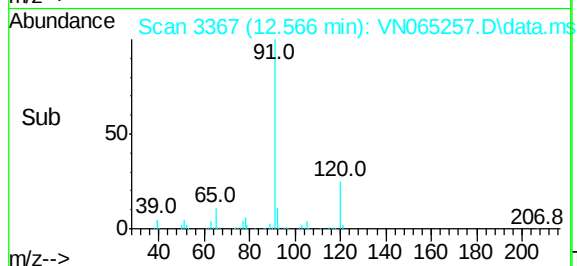
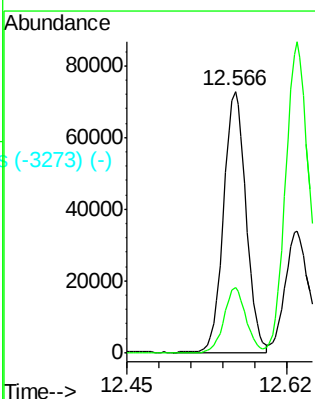
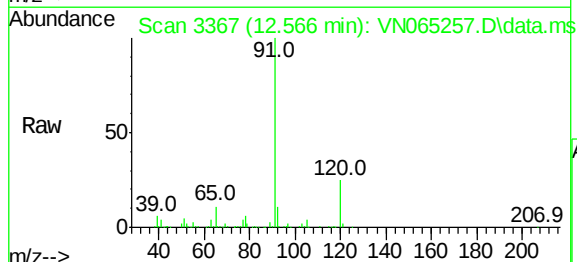
Instrument :  
MSVOA\_N  
ClientSampleId :  
CHRT-26920ME

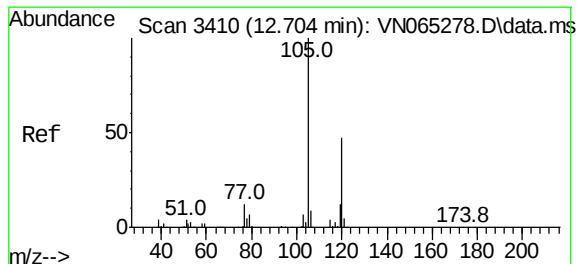
Tgt Ion:105 Resp: 27084  
Ion Ratio Lower Upper  
105 100  
120 27.0 13.3 39.9



#3254 (-)  
n-propylbenzene  
Concen: 6.85 ug/l  
RT: 12.566 min Scan# 3367  
Delta R.T. 0.003 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

Tgt Ion: 91 Resp: 118106  
Ion Ratio Lower Upper  
91 100  
120 24.1 11.6 34.7

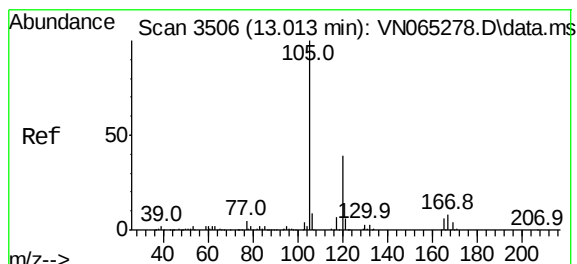
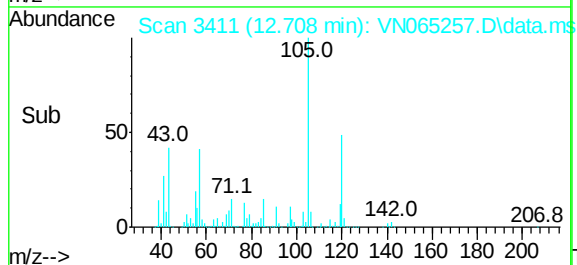
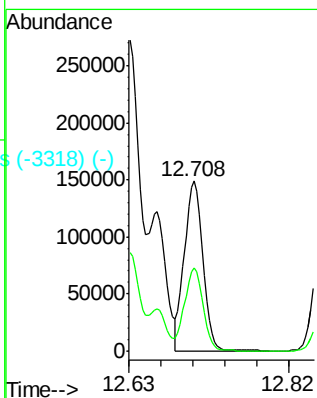
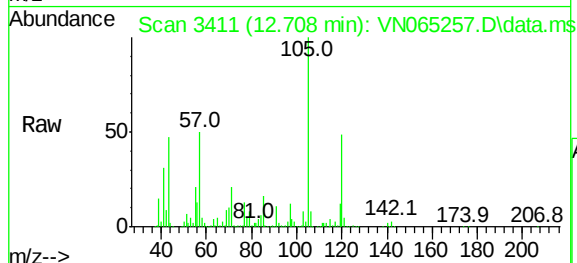




#896 (-)  
 1,3,5-Trimethylbenzene  
 Concen: 17.81 ug/l  
 RT: 12.708 min Scan# 3411  
 Delta R.T. -0.000 min  
 Lab File: VN065257.D  
 Acq: 24 Dec 2020 13:24

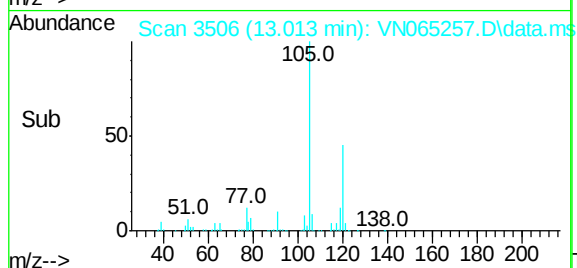
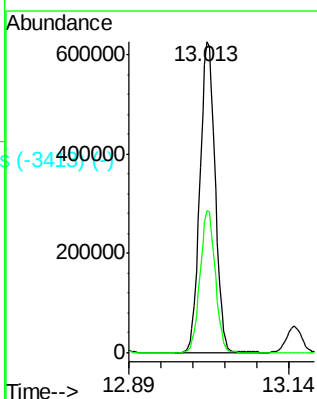
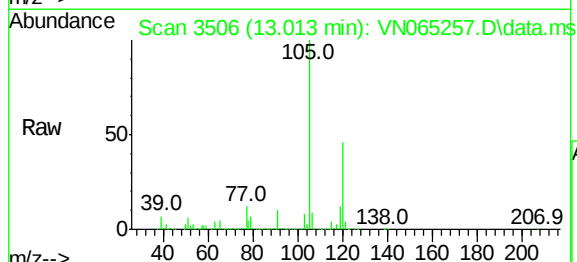
Instrument :  
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 ClientSampleId :  
 CHRT-26920ME

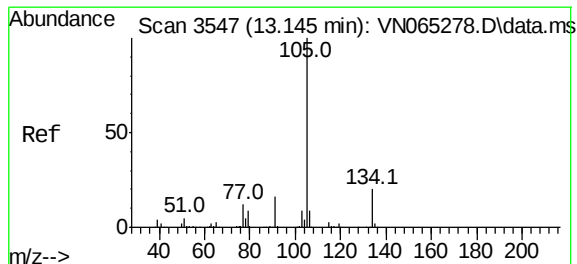
Tgt Ion:105 Resp: 231876  
 Ion Ratio Lower Upper  
 105 100  
 120 49.7 24.6 73.6



#844 (-)  
 1,2,4-Trimethylbenzene  
 Concen: 78.25 ug/l  
 RT: 13.013 min Scan# 3506  
 Delta R.T. 0.000 min  
 Lab File: VN065257.D  
 Acq: 24 Dec 2020 13:24

Tgt Ion:105 Resp: 991776  
 Ion Ratio Lower Upper  
 105 100  
 120 45.6 23.1 69.2

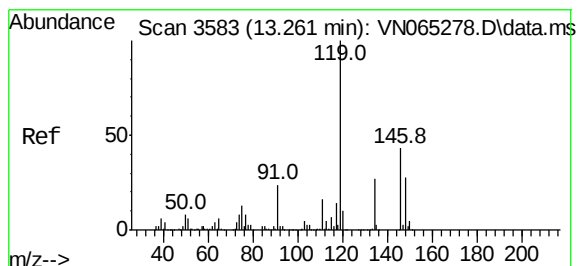
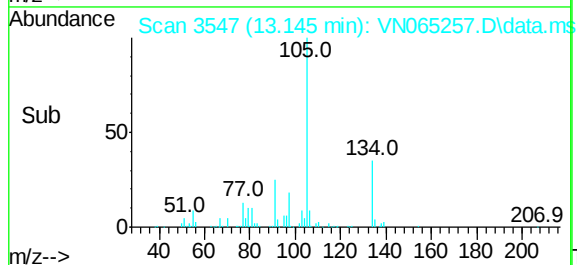
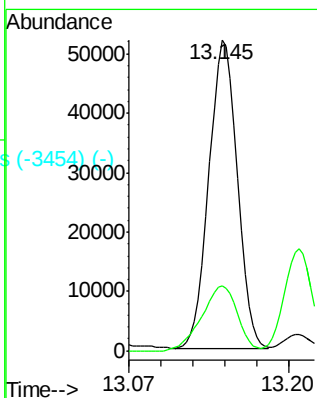
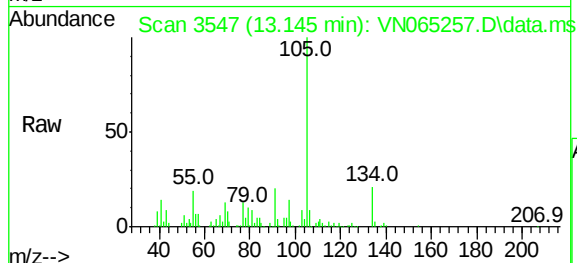




#3534 (-)  
 sec-Butylbenzene  
 Concen: 5.66 ug/l  
 RT: 13.145 min Scan# 3547  
 Delta R.T. -0.000 min  
 Lab File: VN065257.D  
 Acq: 24 Dec 2020 13:24

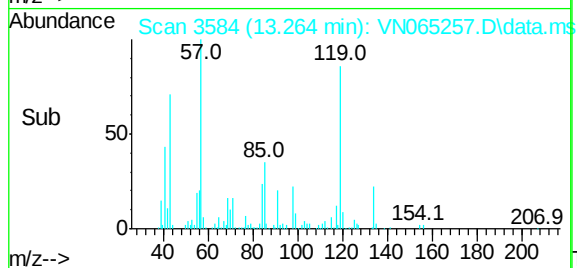
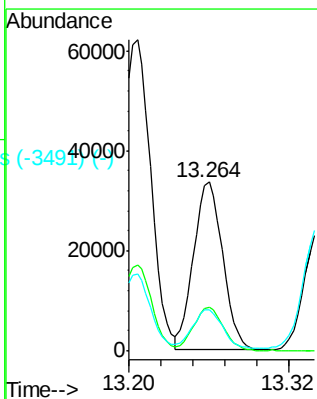
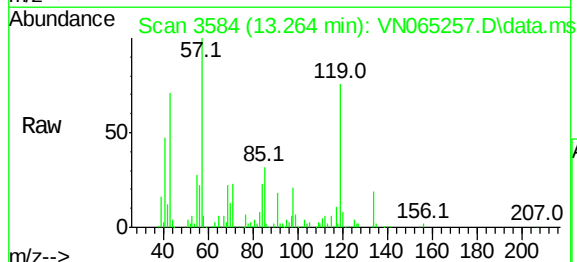
Instrument :  
 MSVOA\_N  
 ClientSampled :  
 CHRT-26920ME

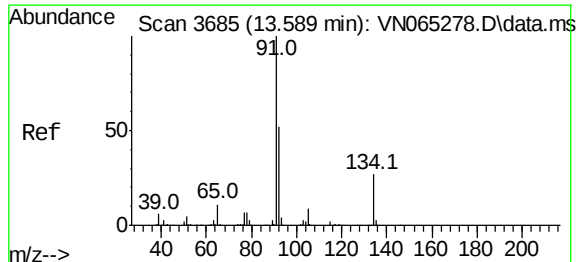
Tgt Ion:105 Resp: 83239  
 Ion Ratio Lower Upper  
 105 100  
 134 26.5 10.1 30.1



#3571 (-)  
 p-Isopropyltoluene  
 Concen: 3.82 ug/l  
 RT: 13.264 min Scan# 3584  
 Delta R.T. -0.000 min  
 Lab File: VN065257.D  
 Acq: 24 Dec 2020 13:24

Tgt Ion:119 Resp: 51577  
 Ion Ratio Lower Upper  
 119 100  
 134 26.1 13.1 39.1  
 91 23.3 11.5 34.5

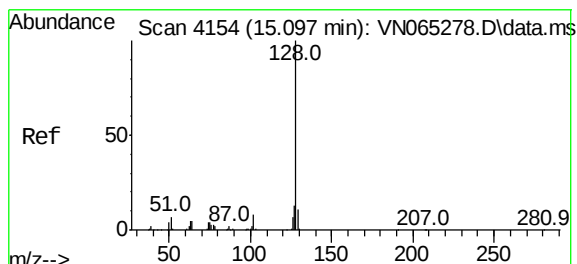
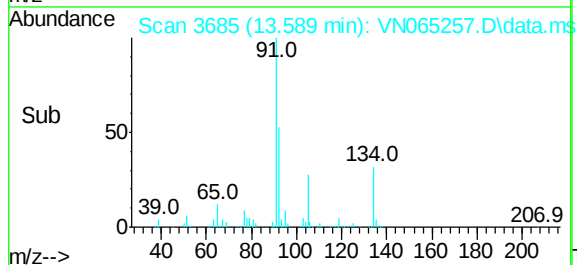
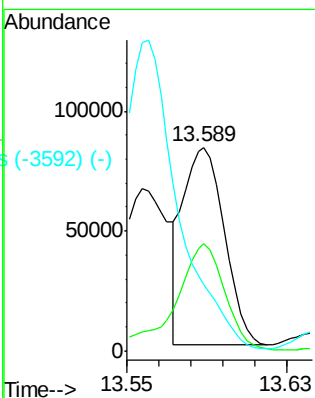
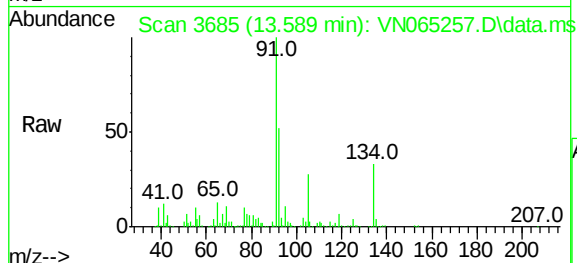




#9971 (-)  
n-Butylbenzene  
Concen: 10.57 ug/l  
RT: 13.589 min Scan# 3685  
Delta R.T. 0.001 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

Instrument :  
MSVOA\_N  
ClientSampleId :  
CHRT-26920ME

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 121894 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 92       | 64.6  | 26.0  | 78.0   |
| 134      | 0.0   | 12.9  | 38.6   |



#9940 (-)  
Naphthalene  
Concen: 36.87 ug/l  
RT: 15.097 min Scan# 4154  
Delta R.T. 0.001 min  
Lab File: VN065257.D  
Acq: 24 Dec 2020 13:24

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 373094 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 14.5  | 10.3  | 15.5   |
| 129      | 13.1  | 8.7   | 13.1   |

