

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070822\  
 Data File : VX029981.D  
 Acq On : 08 Jul 2022 18:25  
 Operator : JC/MD  
 Sample : N3621-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TT-TB-20220706

Quant Time: Jul 09 02:21:08 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X070822W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Jul 09 02:10:54 2022  
 Response via : Initial Calibration

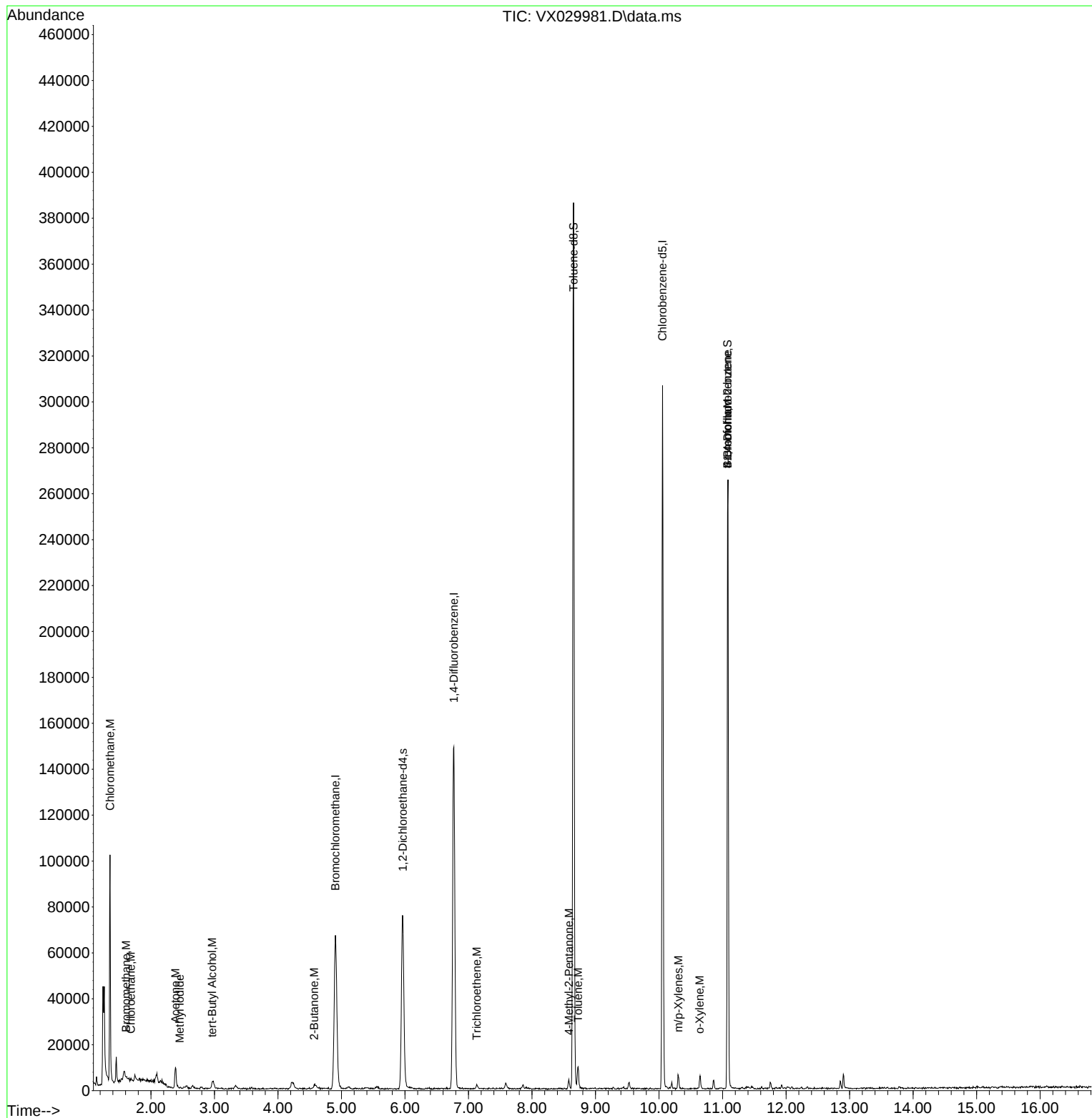
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.903  | 128   | 29890    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.769  | 114   | 163664   | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117   | 142630   | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.964  | 65    | 68684    | 28.181   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 93.933%  |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 74362    | 27.665   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 92.200%  |
| 63) Toluene-d8              | 8.653  | 98    | 229408   | 29.662   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 98.867%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 3) Chloromethane            | 1.355  | 50    | 2719     | 1.276    | ug/l   | 91       |
| 5) Bromomethane             | 1.605  | 94    | 364      | 0.366    | ug/l # | 47       |
| 6) Chloroethane             | 1.685  | 64    | 619      | 0.479    | ug/l   | 91       |
| 11) Methyl Iodide           | 2.453  | 142   | 357      | 9.038    | ug/l # | 58       |
| 15) Acetone                 | 2.386  | 58    | 3261     | 8.137    | ug/l   | 94       |
| 23) tert-Butyl Alcohol      | 2.965  | 59    | 2043     | 3.023    | ug/l # | 100      |
| 30) 2-Butanone              | 4.568  | 43    | 1304     | 0.690    | ug/l # | 85       |
| 37) Trichloroethene         | 7.129  | 130   | 596      | 0.248    | ug/l   | 98       |
| 56) Bromoform               | 11.079 | 173   | 712      | 0.478    | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 8.580  | 43    | 2197     | 0.624    | ug/l # | 91       |
| 62) Toluene                 | 8.726  | 91    | 6255     | 0.659    | ug/l   | 98       |
| 67) m/p-Xylenes             | 10.305 | 106   | 1499     | 0.383    | ug/l   | 91       |
| 68) o-Xylene                | 10.640 | 106   | 1328     | 0.341    | ug/l   | 82       |
| 77) t-1,4-Dichloro-2-butene | 11.079 | 75    | 34767    | 31.523   | ug/l # | 3        |
| -----                       |        |       |          |          |        |          |

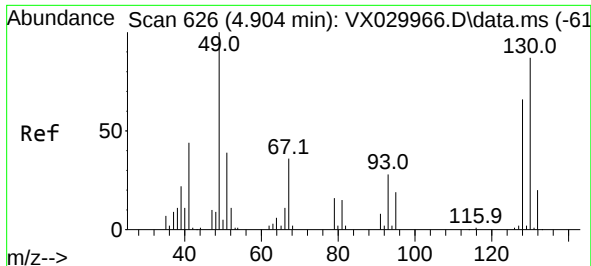
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X070822W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Sat Jul 09 02:10:54 2022  
Response via : Initial Calibration

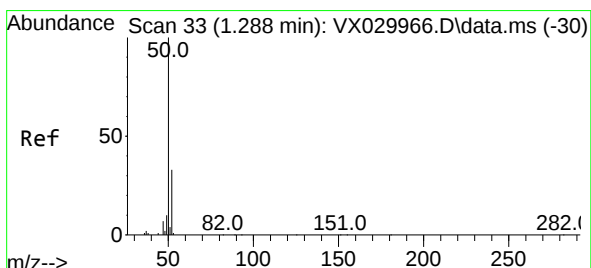
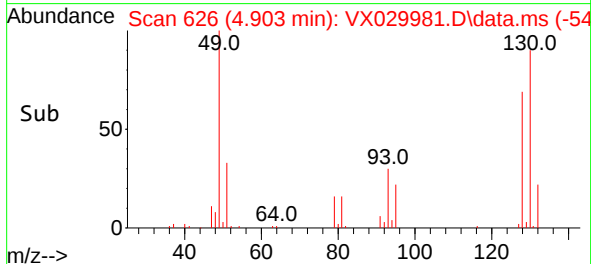
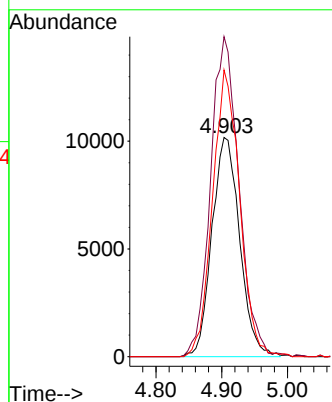
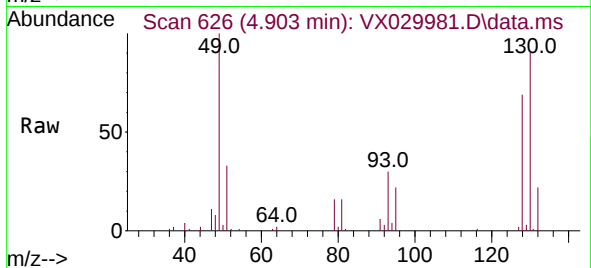




#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.903 min Scan# 61  
Delta R.T. -0.001 min  
Lab File: VX029981.D  
Acq: 08 Jul 2022 18:25

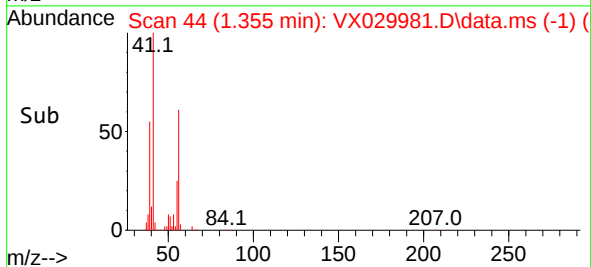
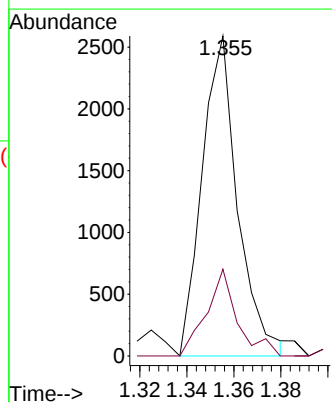
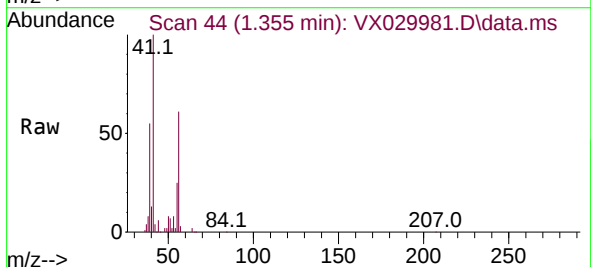
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT-TB-20220706

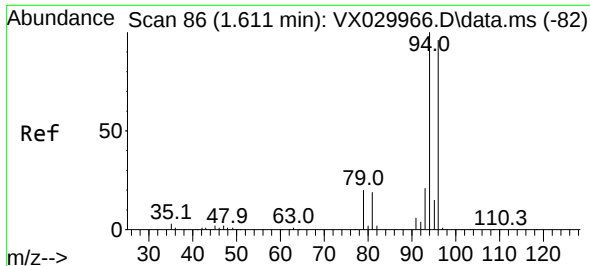
Tgt Ion:128 Resp: 29890  
Ion Ratio Lower Upper  
128 100  
49 148.8 0.0 358.3  
130 127.2 0.0 319.3



#3  
Chloromethane  
Concen: 1.276 ug/l  
RT: 1.355 min Scan# 44  
Delta R.T. 0.067 min  
Lab File: VX029981.D  
Acq: 08 Jul 2022 18:25

Tgt Ion: 50 Resp: 2719  
Ion Ratio Lower Upper  
50 100  
52 27.1 25.6 38.4

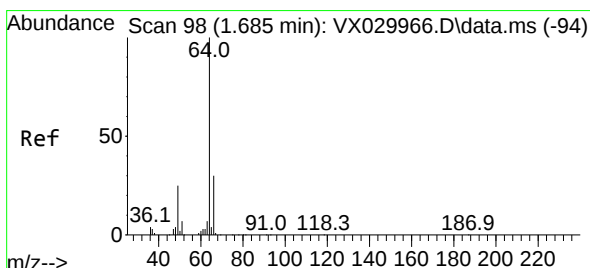
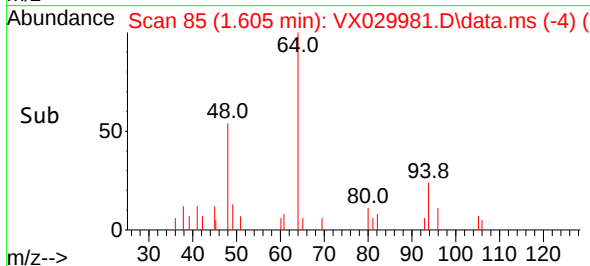
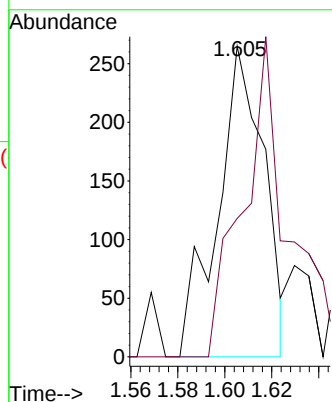
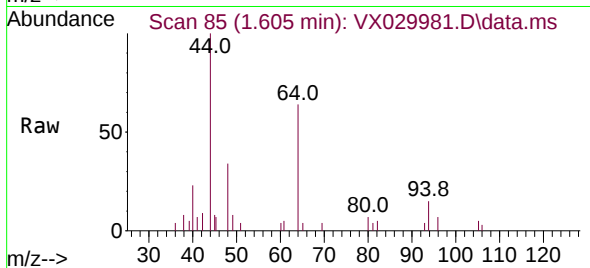




#5  
Bromomethane  
Concen: 0.366 ug/l  
RT: 1.605 min Scan# 81  
Delta R.T. -0.006 min  
Lab File: VX029981.D  
Acq: 08 Jul 2022 18:25

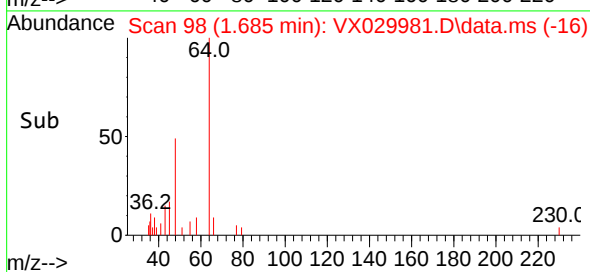
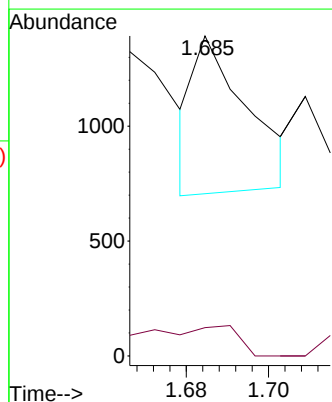
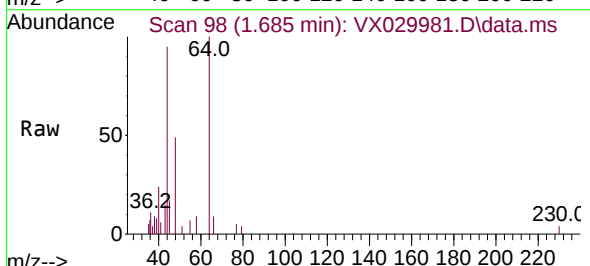
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT-TB-20220706

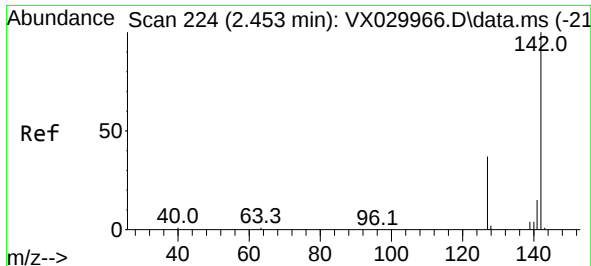
Tgt Ion: 94 Resp: 364  
Ion Ratio Lower Upper  
94 100  
96 44.5 77.0 115.6#



#6  
Chloroethane  
Concen: 0.479 ug/l  
RT: 1.685 min Scan# 98  
Delta R.T. -0.000 min  
Lab File: VX029981.D  
Acq: 08 Jul 2022 18:25

Tgt Ion: 64 Resp: 619  
Ion Ratio Lower Upper  
64 100  
66 28.0 26.4 39.6

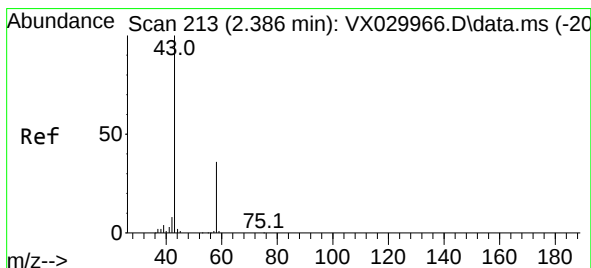
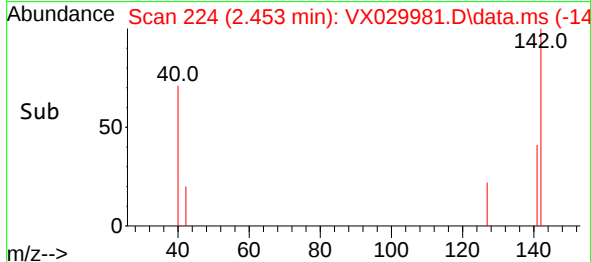
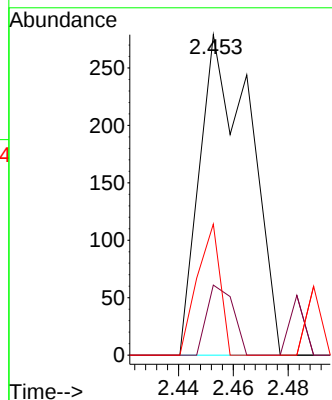
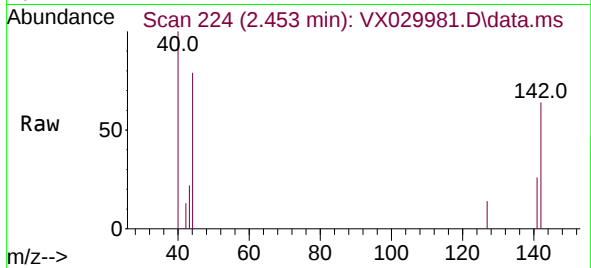




#11  
Methyl Iodide  
Concen: 9.038 ug/l  
RT: 2.453 min Scan# 211  
Delta R.T. -0.000 min  
Lab File: VX029981.D  
Acq: 08 Jul 2022 18:25

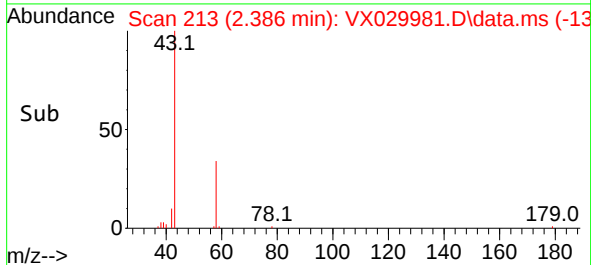
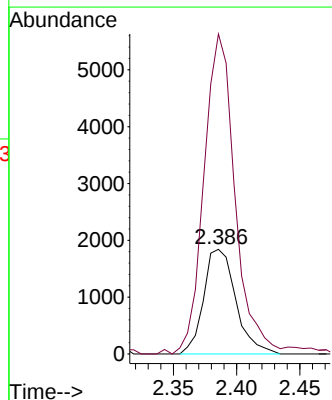
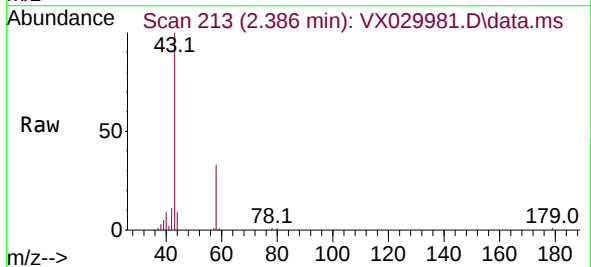
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT-TB-20220706

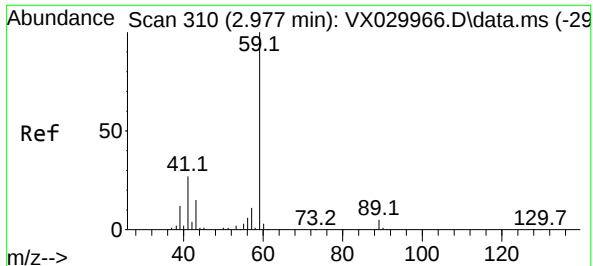
Tgt Ion:142 Resp: 357  
Ion Ratio Lower Upper  
142 100  
127 21.9 22.3 66.9#  
141 40.9 7.0 20.9#



#15  
Acetone  
Concen: 8.137 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX029981.D  
Acq: 08 Jul 2022 18:25

Tgt Ion: 58 Resp: 3261  
Ion Ratio Lower Upper  
58 100  
43 300.6 250.2 375.2

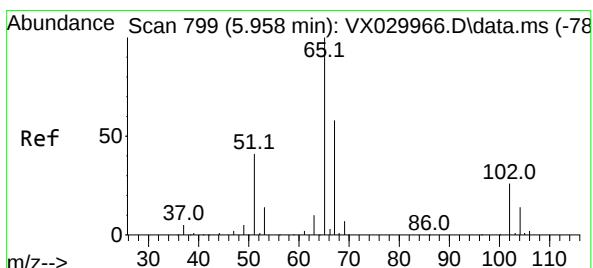
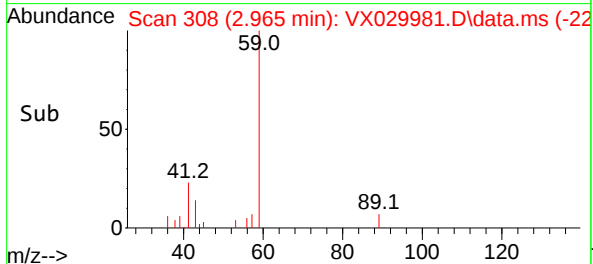
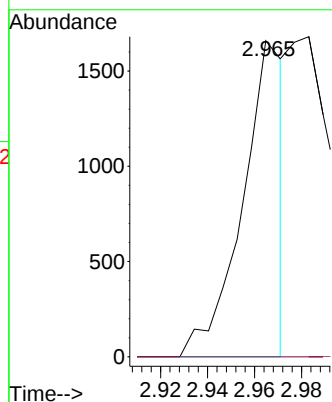
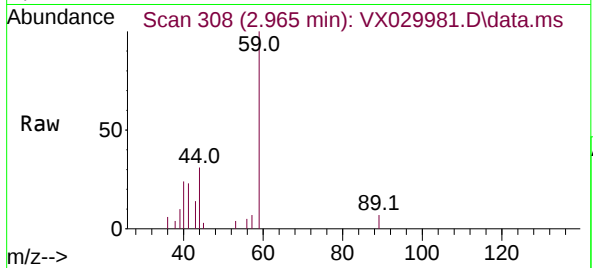




#23  
tert-Butyl Alcohol  
Concen: 3.023 ug/l  
RT: 2.965 min Scan# 30  
Delta R.T. -0.012 min  
Lab File: VX029981.D  
Acq: 08 Jul 2022 18:25

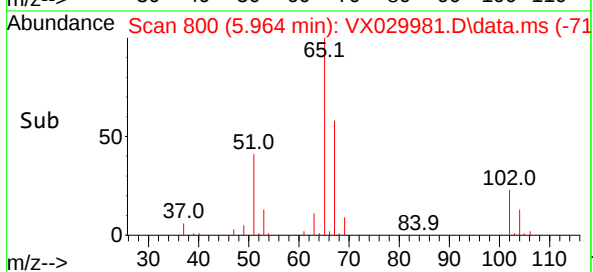
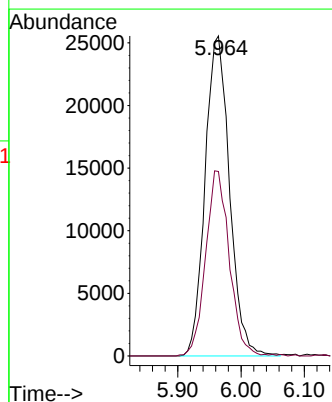
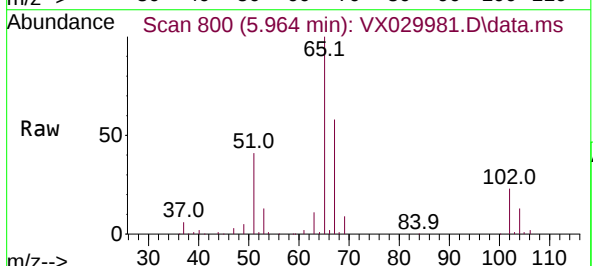
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT-TB-20220706

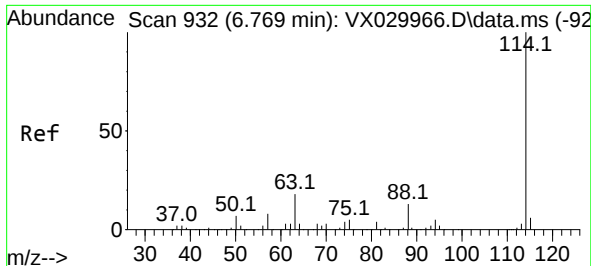
Tgt Ion: 59 Resp: 2043  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0



#27  
1,2-Dichloroethane-d4  
Concen: 28.181 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. 0.006 min  
Lab File: VX029981.D  
Acq: 08 Jul 2022 18:25

Tgt Ion: 65 Resp: 68684  
Ion Ratio Lower Upper  
65 100  
67 56.0 42.3 63.5





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX029981.D

Acq: 08 Jul 2022 18:25

Instrument :

MSVOA\_X

ClientSampleId :

TT-TB-20220706

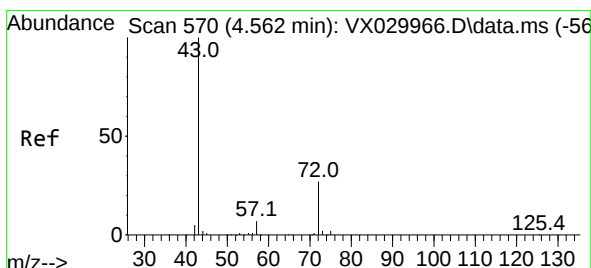
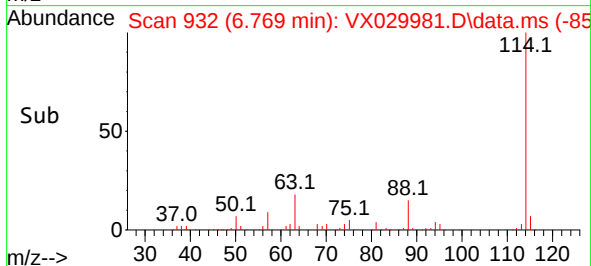
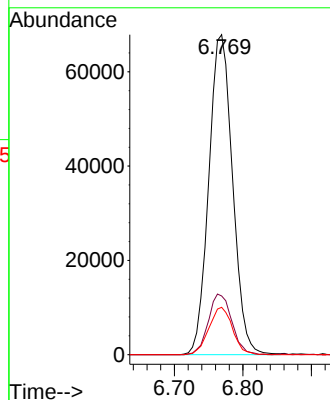
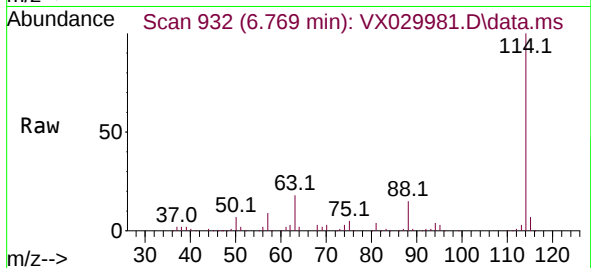
Tgt Ion:114 Resp: 163664

Ion Ratio Lower Upper

114 100

63 18.7 15.3 22.9

88 14.7 12.2 18.4



#30

2-Butanone

Concen: 0.690 ug/l

RT: 4.568 min Scan# 571

Delta R.T. 0.006 min

Lab File: VX029981.D

Acq: 08 Jul 2022 18:25

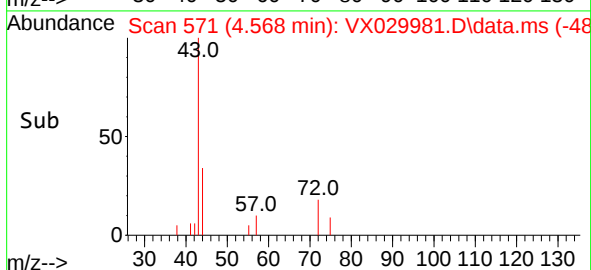
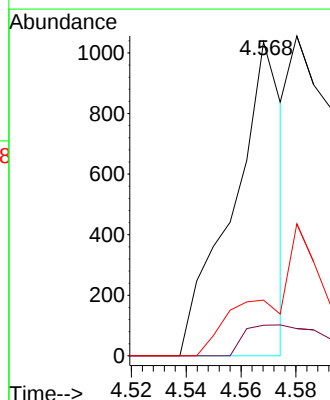
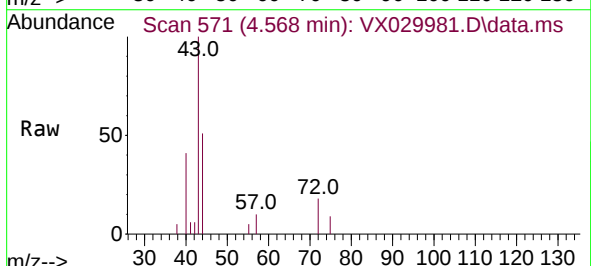
Tgt Ion: 43 Resp: 1304

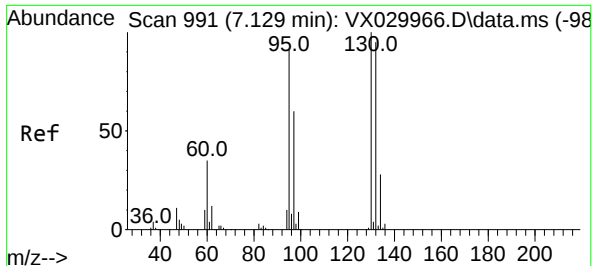
Ion Ratio Lower Upper

43 100

57 14.7 6.6 10.0#

72 20.2 22.1 33.1#





#37

Trichloroethene

Concen: 0.248 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.000 min

Lab File: VX029981.D

Acq: 08 Jul 2022 18:25

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MSVOA\_X

ClientSampleId :

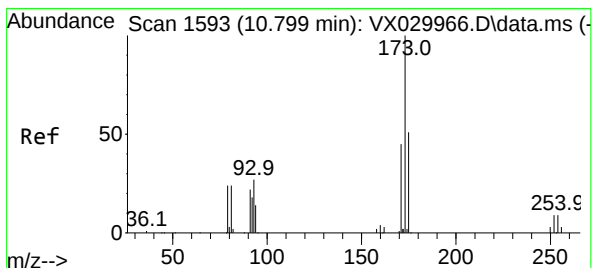
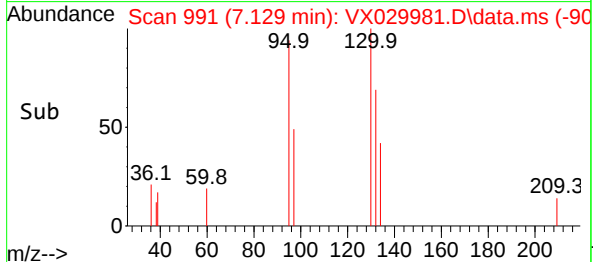
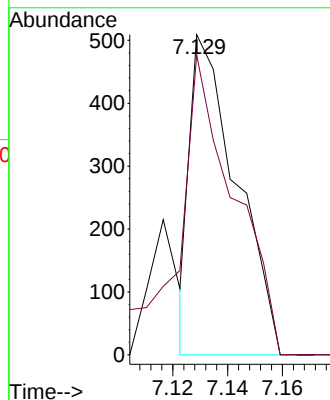
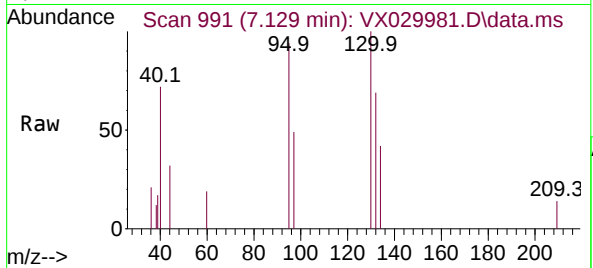
TT-TB-20220706

Tgt Ion:130 Resp: 596

Ion Ratio Lower Upper

130 100

95 93.7 76.5 114.7



#56

Bromoform

Concen: 0.478 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.280 min

Lab File: VX029981.D

Acq: 08 Jul 2022 18:25

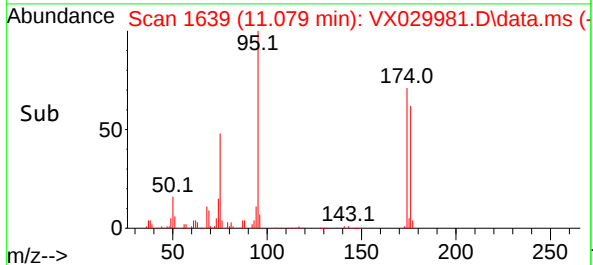
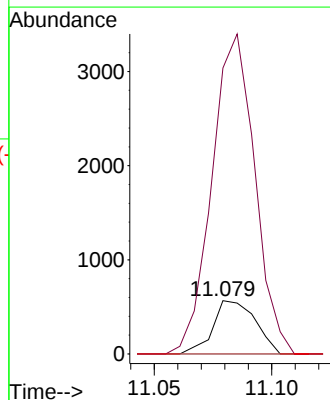
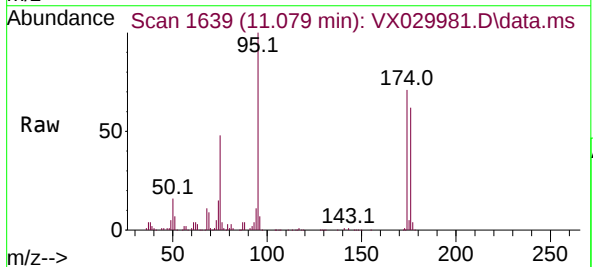
Tgt Ion:173 Resp: 712

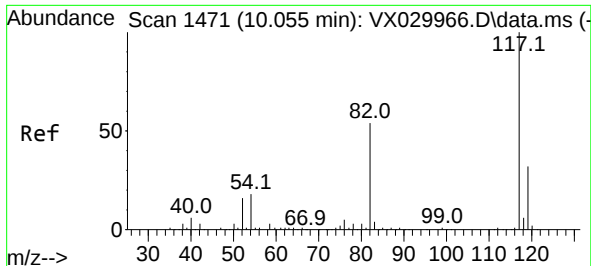
Ion Ratio Lower Upper

173 100

175 607.6 40.3 60.5#

254 0.0 7.4 11.2#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX029981.D

Acq: 08 Jul 2022 18:25

Instrument :

MSVOA\_X

ClientSampleId :

TT-TB-20220706

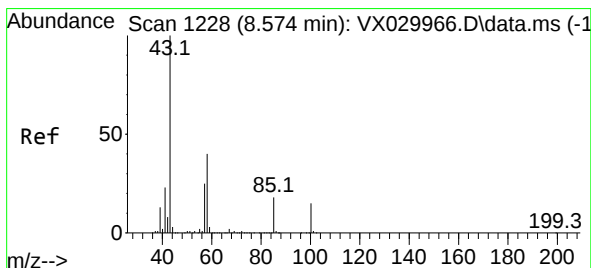
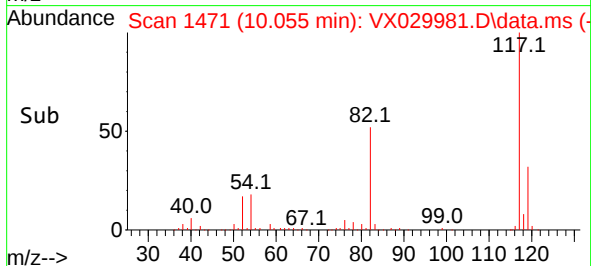
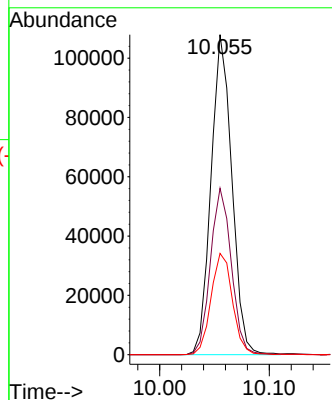
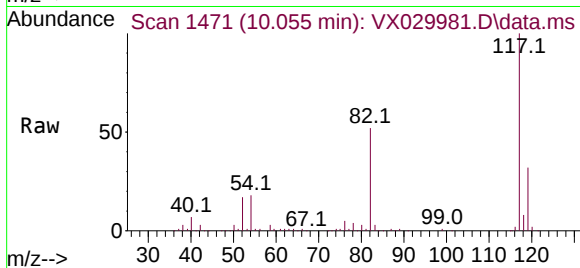
Tgt Ion:117 Resp: 142630

Ion Ratio Lower Upper

117 100

82 52.2 42.3 63.5

119 32.3 26.2 39.2



#58

4-Methyl-2-Pentanone

Concen: 0.624 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX029981.D

Acq: 08 Jul 2022 18:25

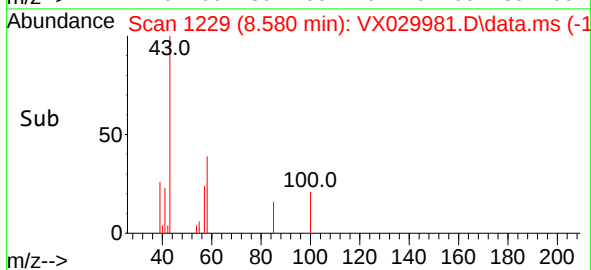
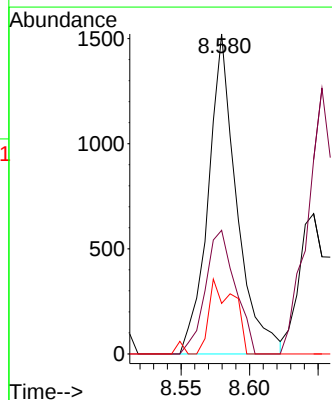
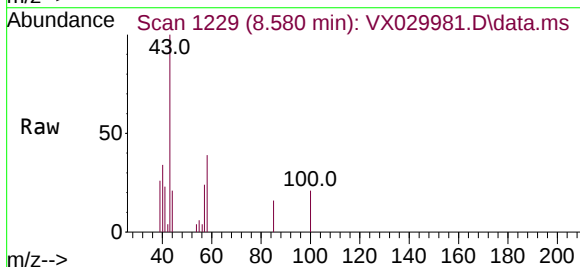
Tgt Ion: 43 Resp: 2197

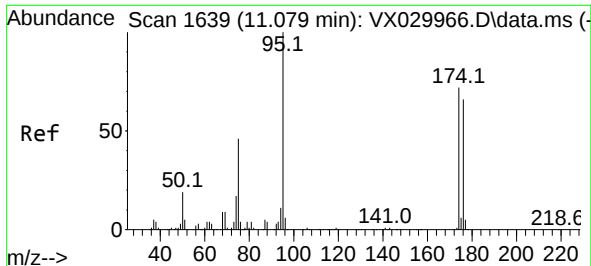
Ion Ratio Lower Upper

43 100

58 40.7 31.8 47.6

85 9.1 15.8 23.6#

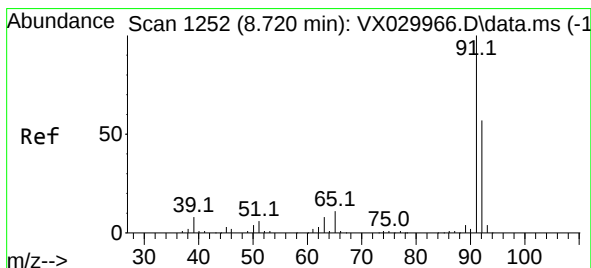
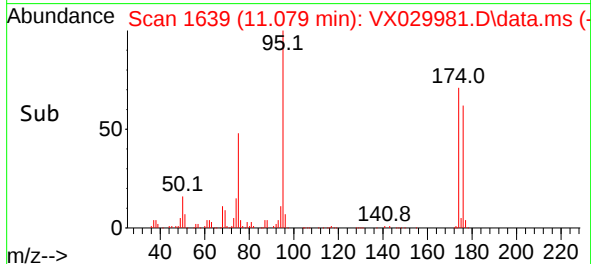
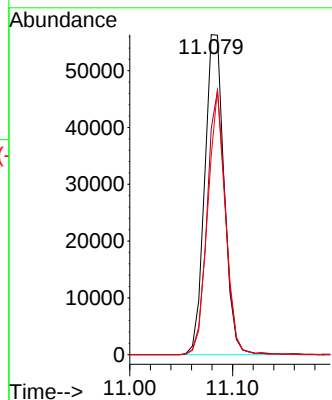
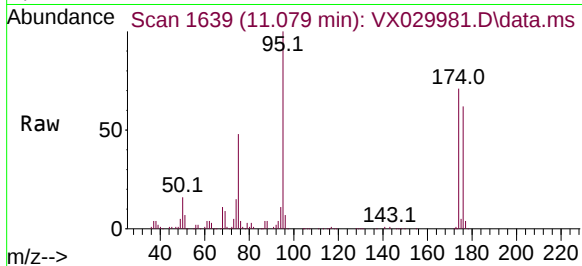




#60  
4-Bromofluorobenzene  
Concen: 27.665 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX029981.D  
Acq: 08 Jul 2022 18:25

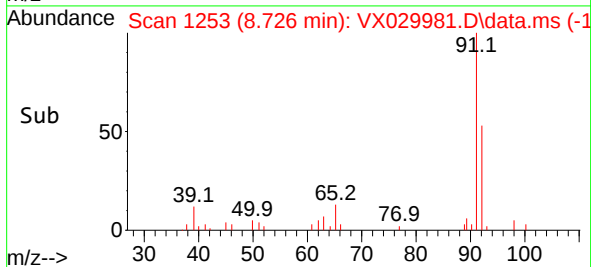
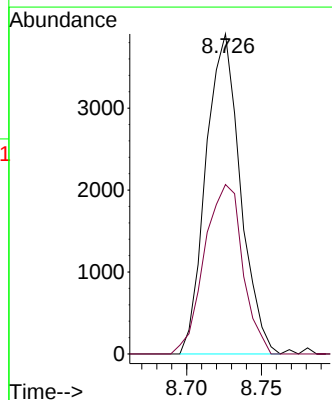
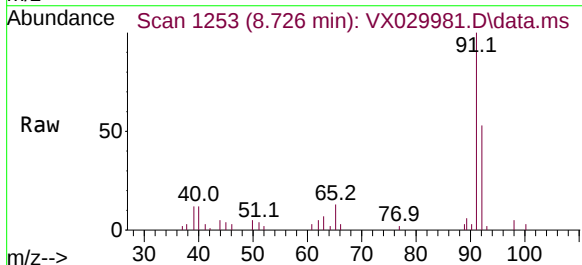
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT-TB-20220706

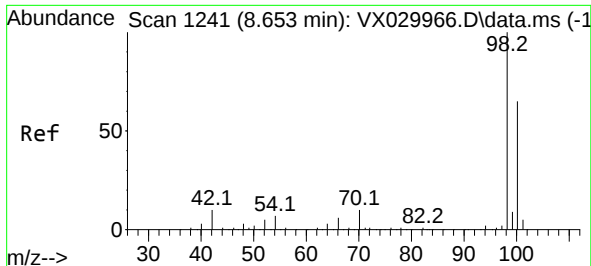
Tgt Ion: 95 Resp: 74362  
Ion Ratio Lower Upper  
95 100  
174 77.7 65.4 98.2  
176 75.2 63.4 95.0



#62  
Toluene  
Concen: 0.659 ug/l  
RT: 8.726 min Scan# 1253  
Delta R.T. 0.006 min  
Lab File: VX029981.D  
Acq: 08 Jul 2022 18:25

Tgt Ion: 91 Resp: 6255  
Ion Ratio Lower Upper  
91 100  
92 58.8 48.1 72.1

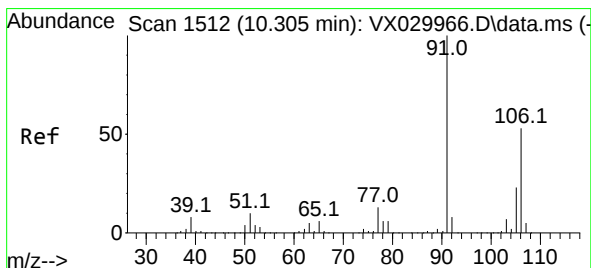
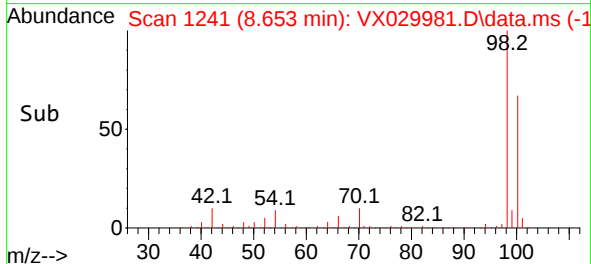
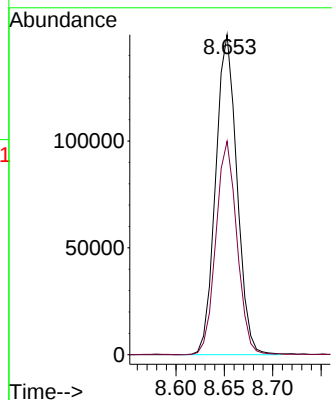
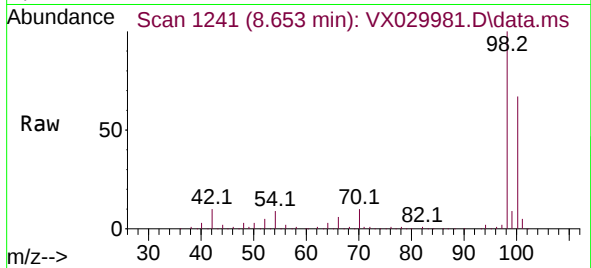




#63  
Toluene-d8  
Concen: 29.662 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX029981.D  
Acq: 08 Jul 2022 18:25

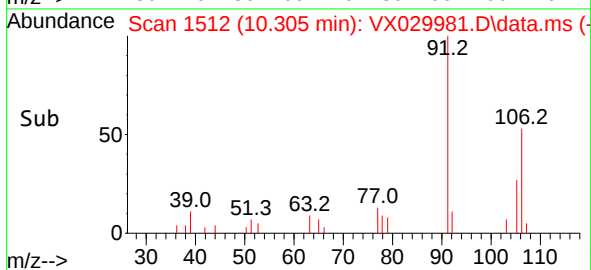
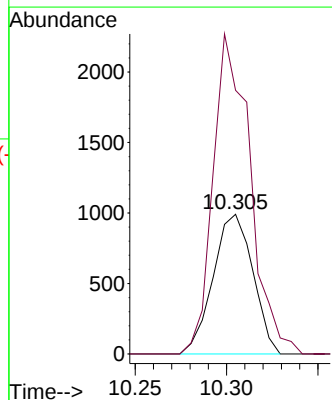
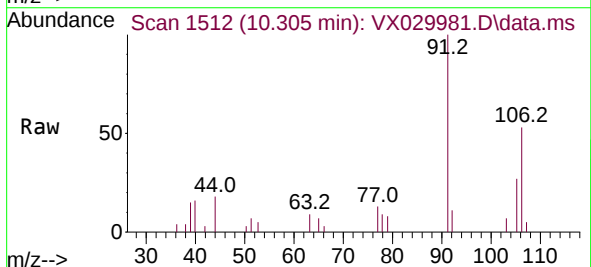
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT-TB-20220706

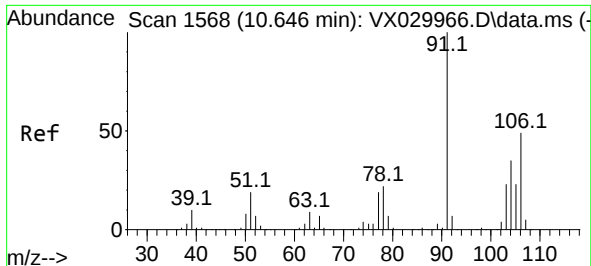
Tgt Ion: 98 Resp: 229408  
Ion Ratio Lower Upper  
98 100  
100 65.9 51.4 77.2



#67  
m/p-Xylenes  
Concen: 0.383 ug/l  
RT: 10.305 min Scan# 1512  
Delta R.T. -0.000 min  
Lab File: VX029981.D  
Acq: 08 Jul 2022 18:25

Tgt Ion:106 Resp: 1499  
Ion Ratio Lower Upper  
106 100  
91 213.7 159.5 239.3

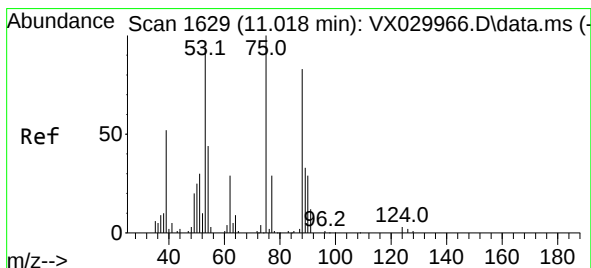
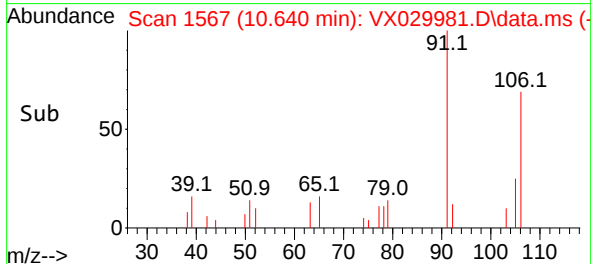
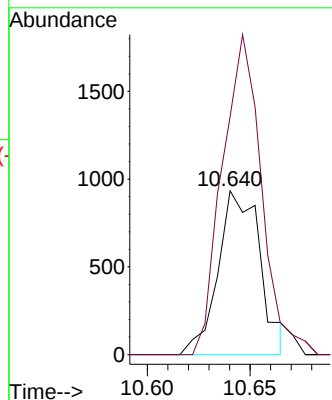
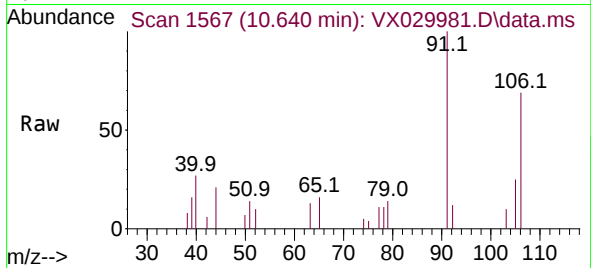




#68  
o-Xylene  
Concen: 0.341 ug/l  
RT: 10.640 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX029981.D  
Acq: 08 Jul 2022 18:25

Instrument :  
MSVOA\_X  
ClientSampleId :  
TT-TB-20220706

Tgt Ion:106 Resp: 1328  
Ion Ratio Lower Upper  
106 100  
91 182.5 105.4 316.2



#77  
t-1,4-Dichloro-2-butene  
Concen: 31.523 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX029981.D  
Acq: 08 Jul 2022 18:25

Tgt Ion: 75 Resp: 34767  
Ion Ratio Lower Upper  
75 100  
53 0.0 59.7 179.1#  
89 0.0 23.1 69.2#

