

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU090324\  
 Data File : VU060589.D  
 Acq On : 03 Sep 2024 16:53  
 Operator : MD/SY  
 Sample : VIBLK  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Sep 04 05:45:40 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U080524DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Tue Aug 06 11:07:28 2024  
 Response via : Initial Calibration

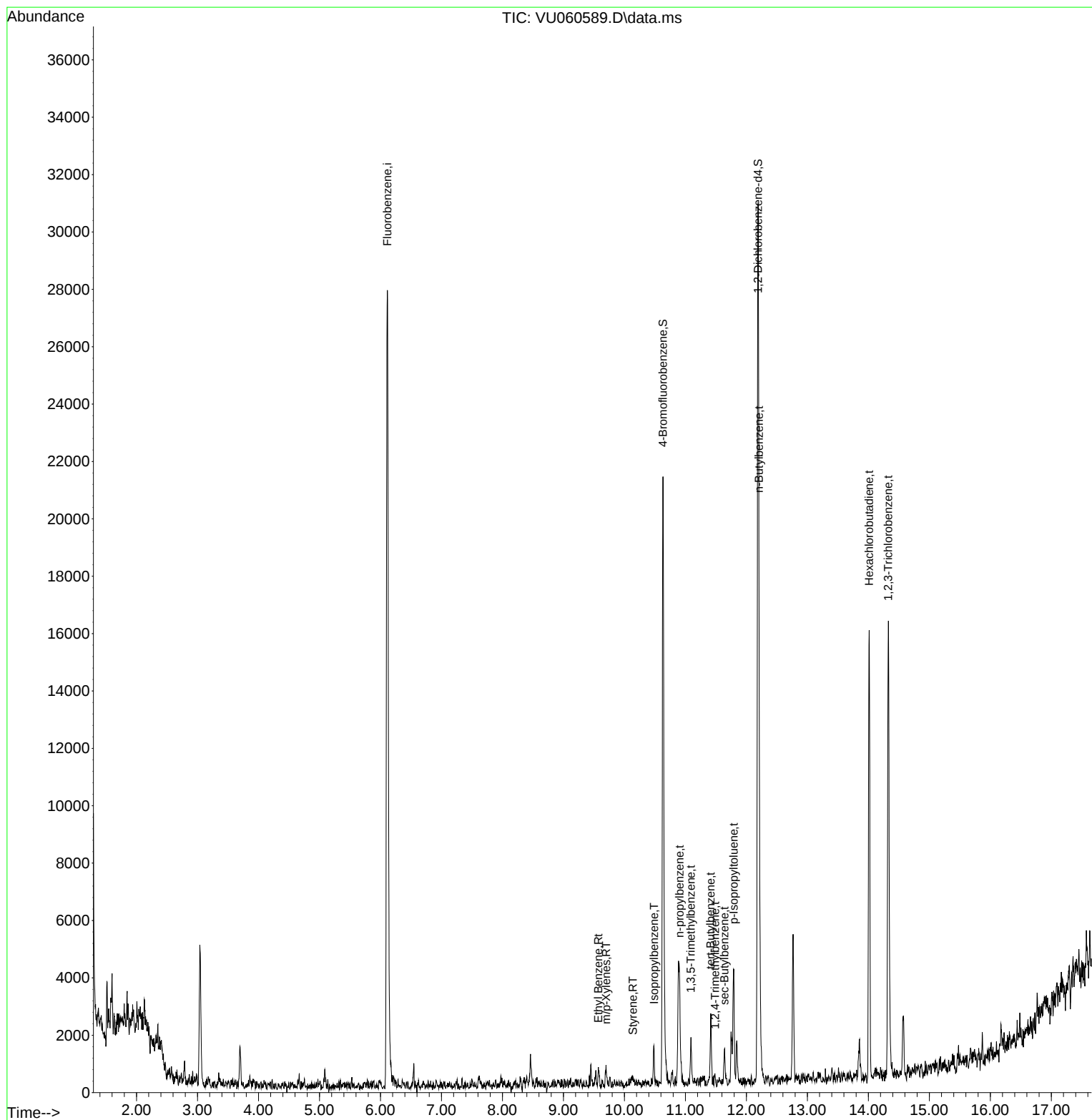
| Compound                    | R.T.   | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|--------|------|----------|-------|---------|----------|
| -----                       |        |      |          |       |         |          |
| Internal Standards          |        |      |          |       |         |          |
| 1) Fluorobenzene            | 6.113  | 96   | 29362    | 1.000 | ug/l    | # 0.00   |
| System Monitoring Compounds |        |      |          |       |         |          |
| 57) 4-Bromofluorobenzene    | 10.631 | 95   | 7925     | 0.792 | ug/l    | 0.00     |
| Spiked Amount 1.000         |        |      | Recovery | =     | 79.000% |          |
| 68) 1,2-Dichlorobenzene-d4  | 12.190 | 152  | 9002     | 0.828 | ug/l    | 0.00     |
| Spiked Amount 1.000         |        |      | Recovery | =     | 83.000% |          |
| Target Compounds            |        |      |          |       |         |          |
|                             |        |      |          |       |         | Qvalue   |
| 63) Ethyl Benzene           | 9.573  | 91   | 560      | 0.512 | ug/l    | # 40     |
| 64) m/p-Xylenes             | 9.701  | 106  | 189      | 0.909 | ug/l    | # 73     |
| 66) Styrene                 | 10.142 | 104  | 342      | 0.483 | ug/l    | # 25     |
| 69) Isopropylbenzene        | 10.486 | 105  | 1326     | 0.506 | ug/l    | # 70     |
| 73) n-propylbenzene         | 10.907 | 120  | 706      | 0.545 | ug/l    | 89       |
| 75) 1,3,5-Trimethylbenzene  | 11.090 | 105  | 1395     | 0.493 | ug/l    | 90       |
| 77) tert-Butylbenzene       | 11.415 | 119  | 1328     | 0.482 | ug/l    | 84       |
| 78) 1,2,4-Trimethylbenzene  | 11.486 | 105  | 199      | 0.502 | ug/l    | # 64     |
| 79) sec-Butylbenzene        | 11.640 | 105  | 1289     | 0.478 | ug/l    | # 84     |
| 81) p-Isopropyltoluene      | 11.791 | 119  | 2762     | 0.586 | ug/l    | # 95     |
| 84) n-Butylbenzene          | 12.206 | 91   | 3275     | 0.592 | ug/l    | 91       |
| 88) Hexachlorobutadiene     | 14.013 | 225  | 3121     | 0.467 | ug/l    | 100      |
| 90) 1,2,3-Trichlorobenzene  | 14.325 | 180  | 6494     | 0.644 | ug/l    | 98       |
| -----                       |        |      |          |       |         |          |

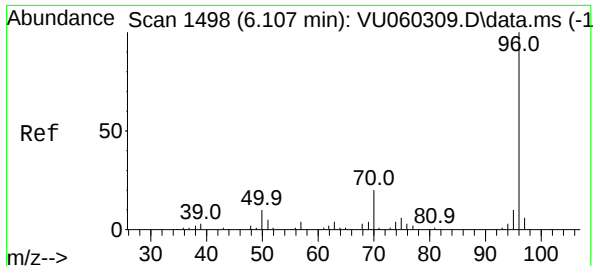
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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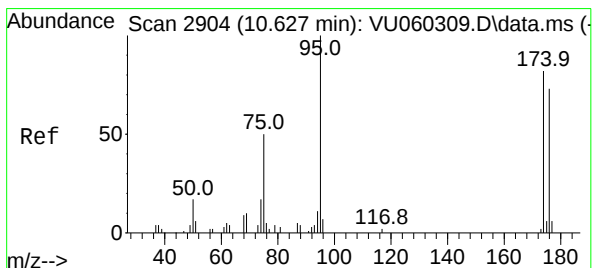
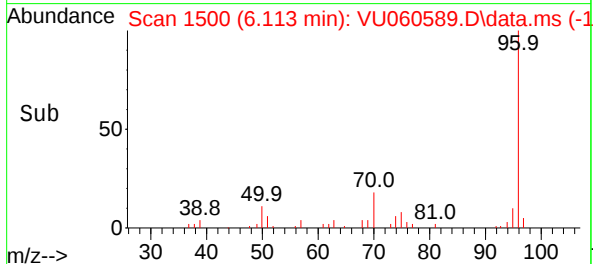
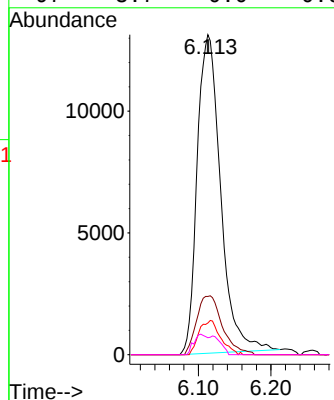
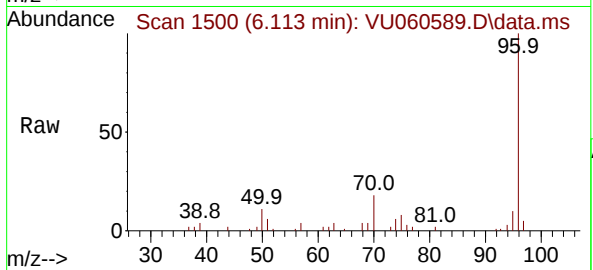




#1  
Fluorobenzene  
Concen: 1.000 ug/l  
RT: 6.113 min Scan# 1498  
Delta R.T. 0.006 min  
Lab File: VU060589.D  
Acq: 03 Sep 2024 16:53

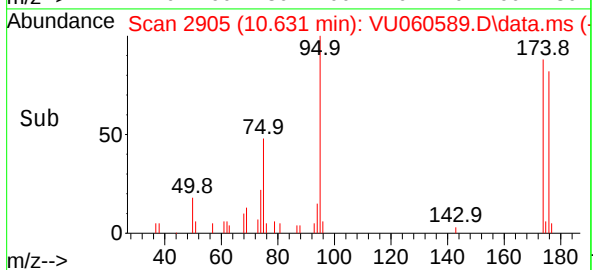
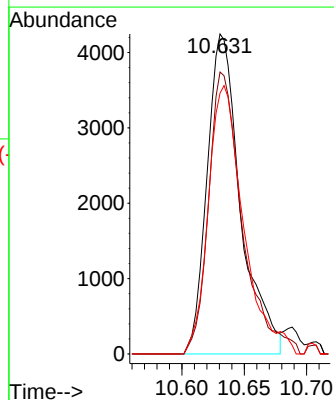
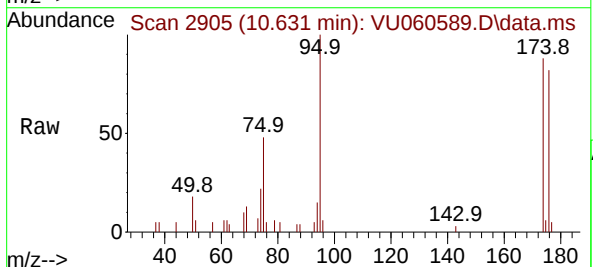
Instrument :  
MSVOA\_U  
ClientSampleId :

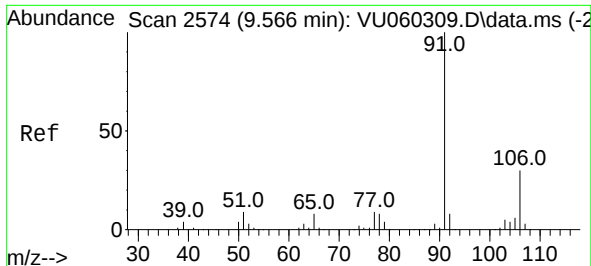
|             |             |
|-------------|-------------|
| Tgt Ion: 96 | Resp: 29362 |
| Ion Ratio   | Lower Upper |
| 96 100      |             |
| 70 20.2     | 17.2 25.8   |
| 95 9.9      | 7.9 11.9    |
| 97 3.7      | 0.0 0.0     |



#57  
4-Bromofluorobenzene  
Concen: 0.792 ug/l  
RT: 10.631 min Scan# 2905  
Delta R.T. 0.003 min  
Lab File: VU060589.D  
Acq: 03 Sep 2024 16:53

|             |             |
|-------------|-------------|
| Tgt Ion: 95 | Resp: 7925  |
| Ion Ratio   | Lower Upper |
| 95 100      |             |
| 174 88.7    | 65.6 98.4   |
| 176 88.2    | 60.4 90.6   |





#63

Ethyl Benzene

Concen: 0.512 ug/l

RT: 9.573 min Scan# 2574

Delta R.T. 0.007 min

Lab File: VU060589.D

Acq: 03 Sep 2024 16:53

Instrument :

MSVOA\_U

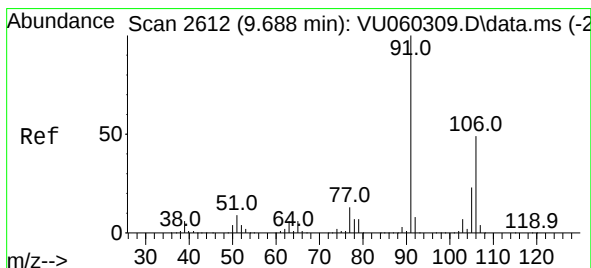
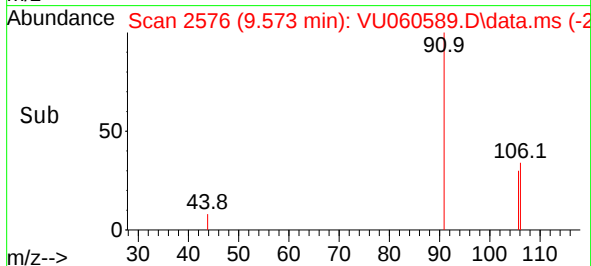
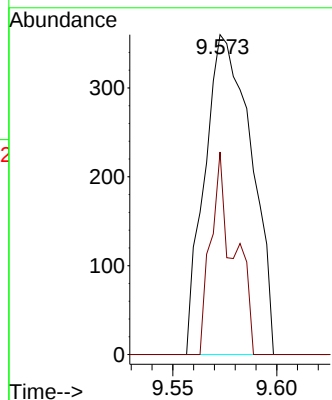
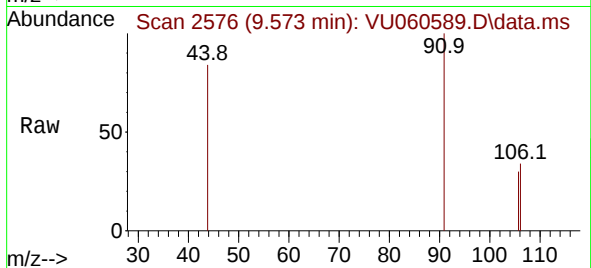
ClientSampleId :

Tgt Ion: 91 Resp: 560

Ion Ratio Lower Upper

91 100

106 63.3 24.4 36.6#



#64

m/p-Xylenes

Concen: 0.909 ug/l

RT: 9.701 min Scan# 2616

Delta R.T. 0.013 min

Lab File: VU060589.D

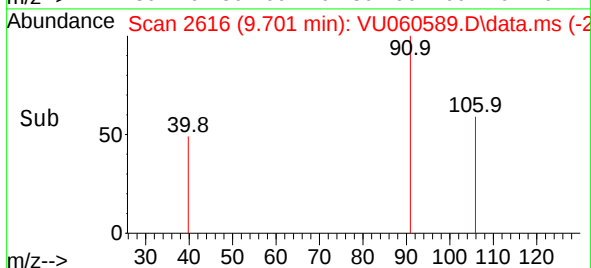
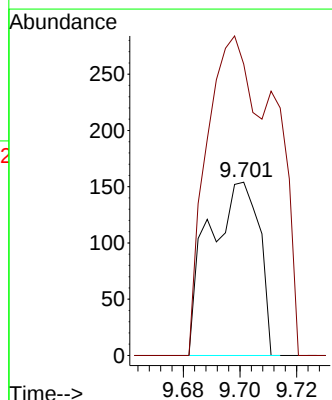
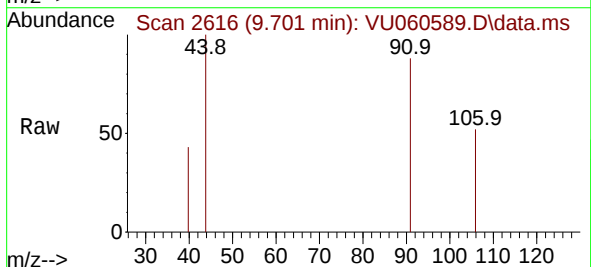
Acq: 03 Sep 2024 16:53

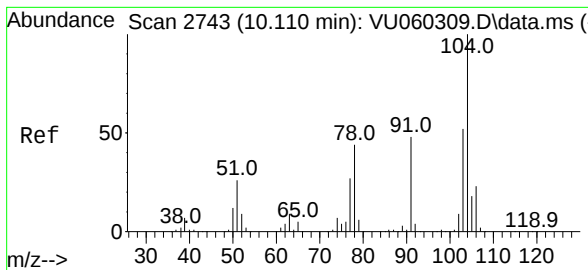
Tgt Ion: 106 Resp: 189

Ion Ratio Lower Upper

106 100

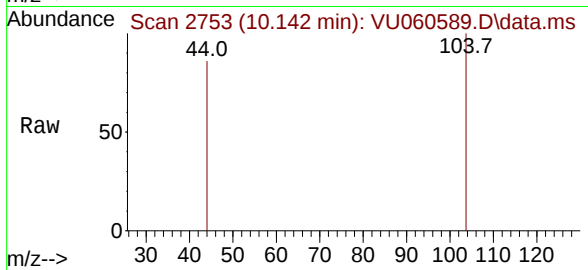
91 247.6 165.0 247.4#



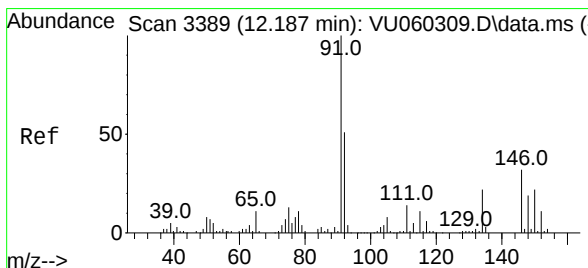
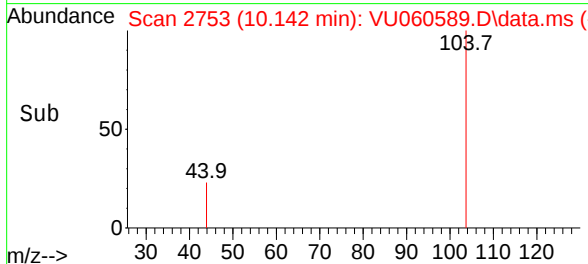
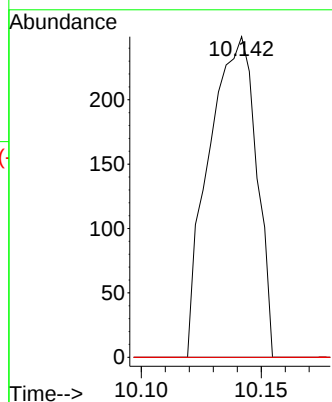


#66  
 Styrene  
 Concen: 0.483 ug/l  
 RT: 10.142 min Scan# 21  
 Delta R.T. 0.032 min  
 Lab File: VU060589.D  
 Acq: 03 Sep 2024 16:53

Instrument :  
 MSVOA\_U  
 ClientSampleId :

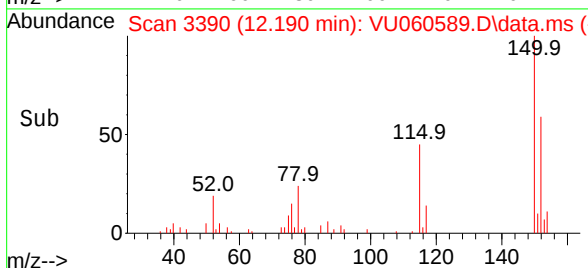
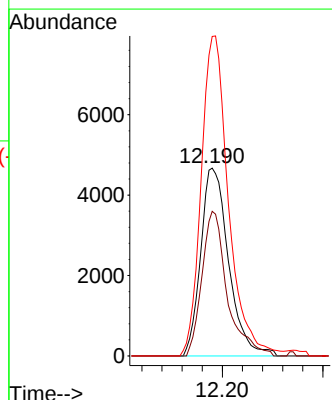
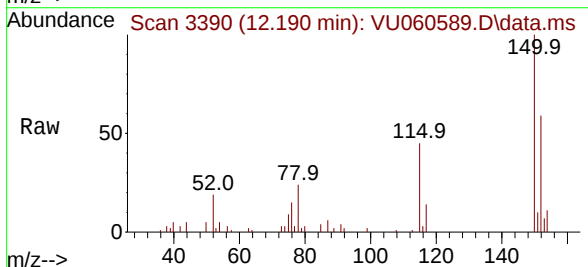


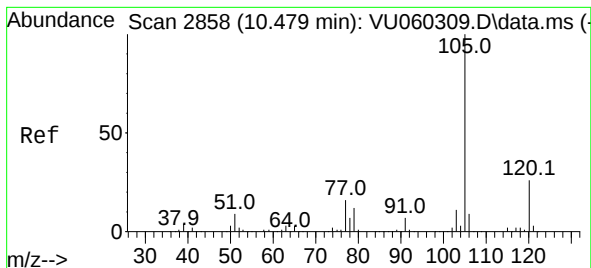
Tgt Ion:104 Resp: 342  
 Ion Ratio Lower Upper  
 104 100  
 78 0.0 39.0 58.6#  
 103 0.0 45.0 67.6#



#68  
 1,2-Dichlorobenzene-d4  
 Concen: 0.828 ug/l  
 RT: 12.190 min Scan# 3390  
 Delta R.T. 0.003 min  
 Lab File: VU060589.D  
 Acq: 03 Sep 2024 16:53

Tgt Ion:152 Resp: 9002  
 Ion Ratio Lower Upper  
 152 100  
 115 69.7 0.0 325.2  
 150 166.8 0.0 684.2





#69

Isopropylbenzene

Concen: 0.506 ug/l

RT: 10.486 min Scan# 21

Delta R.T. 0.007 min

Lab File: VU060589.D

Acq: 03 Sep 2024 16:53

Instrument :

MSVOA\_U

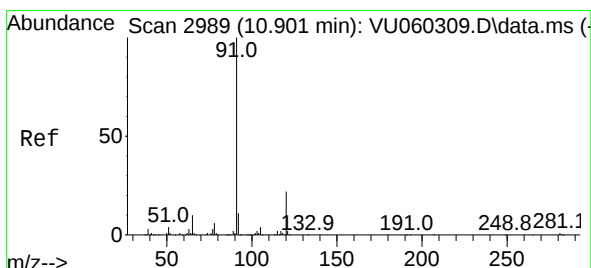
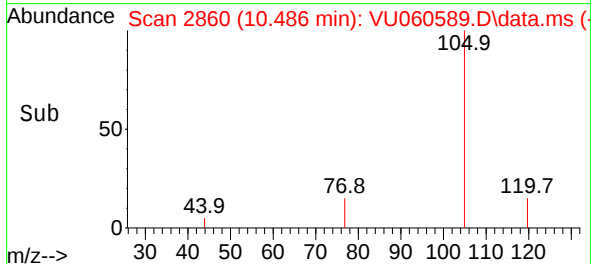
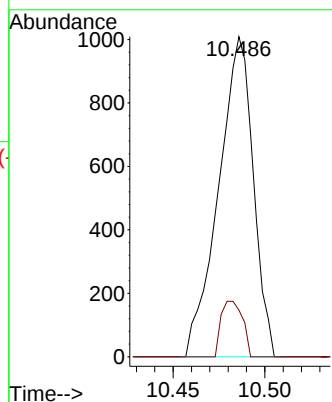
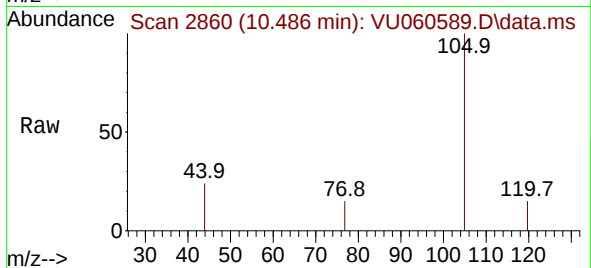
ClientSampleId :

Tgt Ion:105 Resp: 1326

Ion Ratio Lower Upper

105 100

120 10.7 13.0 39.0#



#73

n-propylbenzene

Concen: 0.545 ug/l

RT: 10.907 min Scan# 2991

Delta R.T. 0.006 min

Lab File: VU060589.D

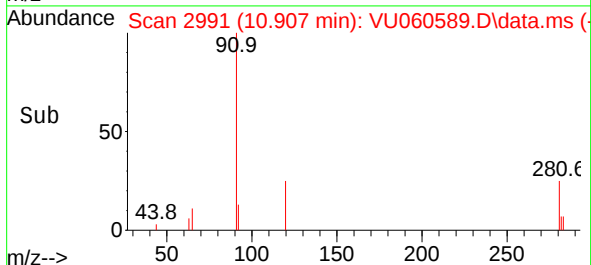
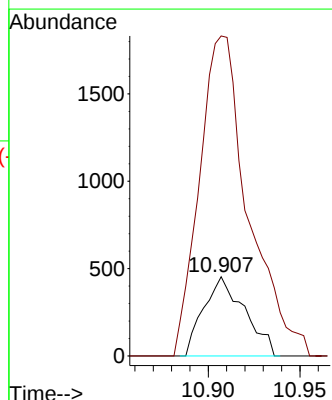
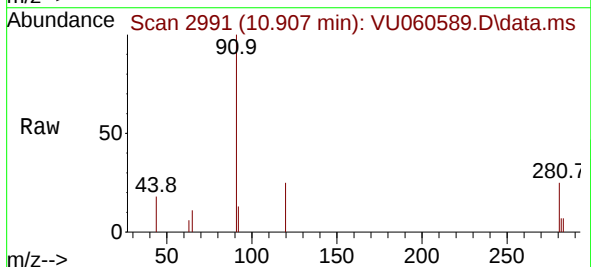
Acq: 03 Sep 2024 16:53

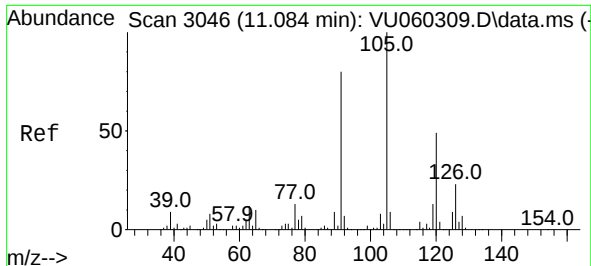
Tgt Ion:120 Resp: 706

Ion Ratio Lower Upper

120 100

91 481.0 362.2 543.2





#75

1,3,5-Trimethylbenzene

Concen: 0.493 ug/l

RT: 11.090 min Scan# 3046

Delta R.T. 0.006 min

Lab File: VU060589.D

Acq: 03 Sep 2024 16:53

Instrument :

MSVOA\_U

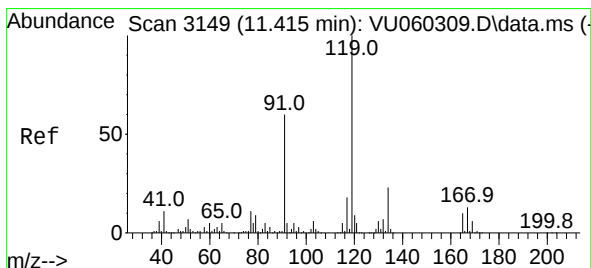
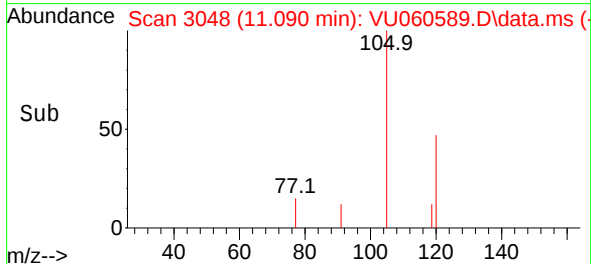
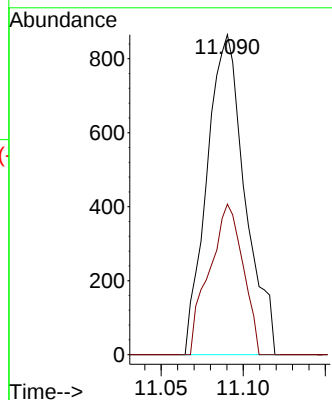
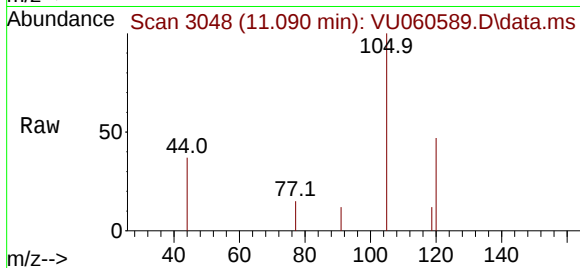
ClientSampleId :

Tgt Ion:105 Resp: 1395

Ion Ratio Lower Upper

105 100

120 41.6 38.6 57.8



#77

tert-Butylbenzene

Concen: 0.482 ug/l

RT: 11.415 min Scan# 3149

Delta R.T. 0.000 min

Lab File: VU060589.D

Acq: 03 Sep 2024 16:53

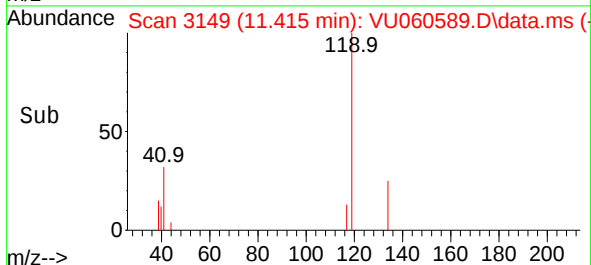
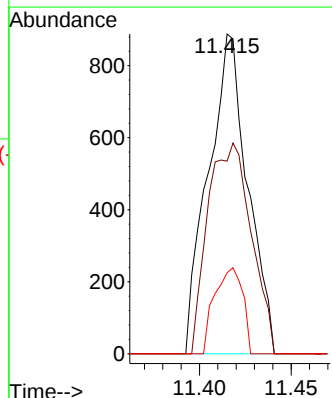
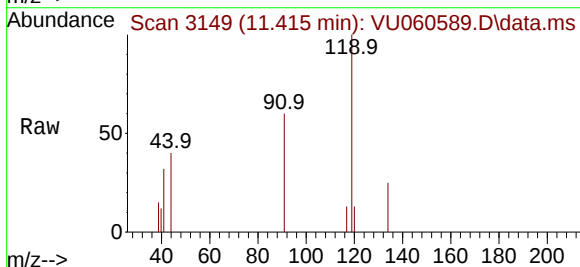
Tgt Ion:119 Resp: 1328

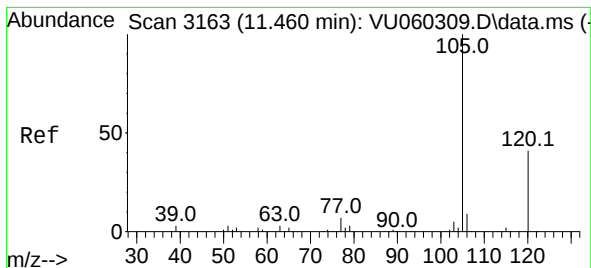
Ion Ratio Lower Upper

119 100

91 72.5 29.0 87.1

134 19.1 17.8 26.8





#78

1,2,4-Trimethylbenzene

Concen: 0.502 ug/l

RT: 11.486 min Scan# 3163

Delta R.T. 0.026 min

Lab File: VU060589.D

Acq: 03 Sep 2024 16:53

Instrument :

MSVOA\_U

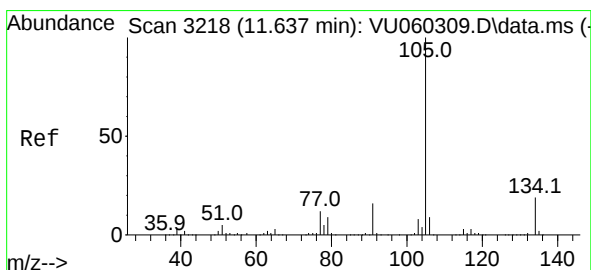
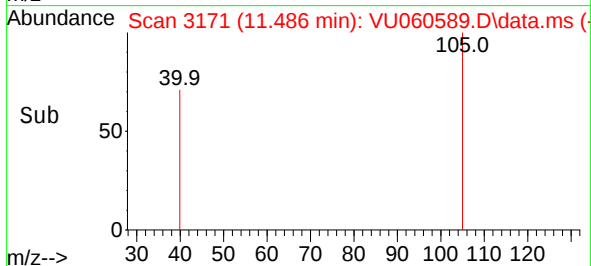
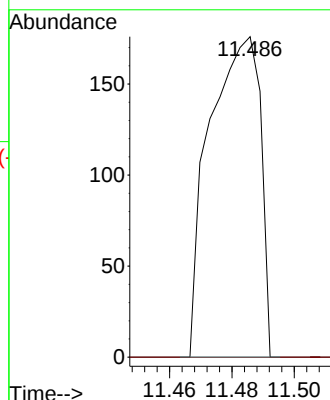
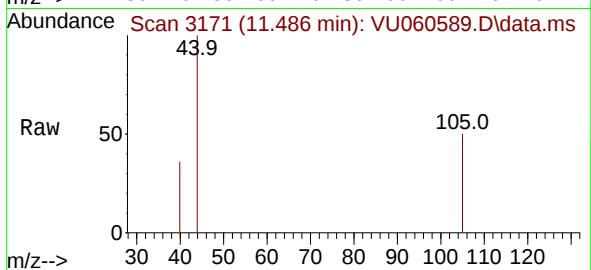
ClientSampleId :

Tgt Ion:105 Resp: 199

Ion Ratio Lower Upper

105 100

120 21.6 22.6 67.7#



#79

sec-Butylbenzene

Concen: 0.478 ug/l

RT: 11.640 min Scan# 3219

Delta R.T. 0.003 min

Lab File: VU060589.D

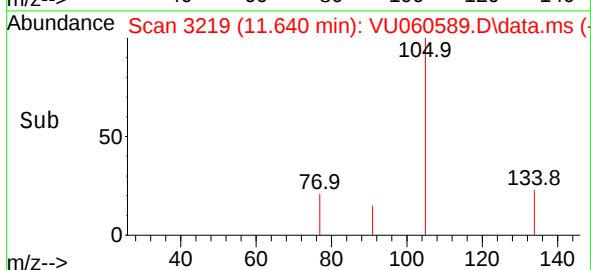
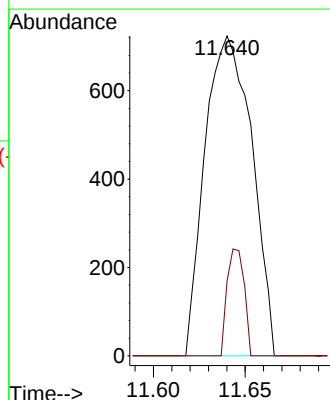
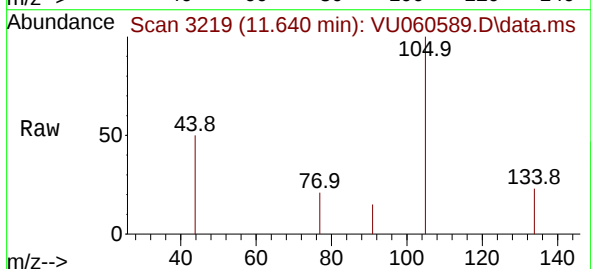
Acq: 03 Sep 2024 16:53

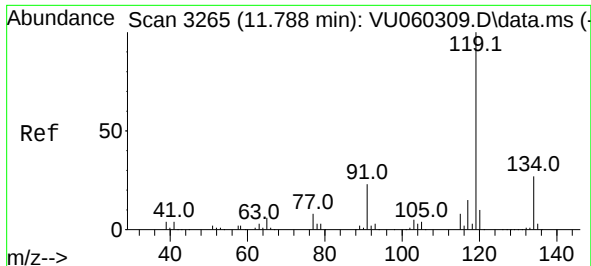
Tgt Ion:105 Resp: 1289

Ion Ratio Lower Upper

105 100

134 12.1 15.5 23.3#

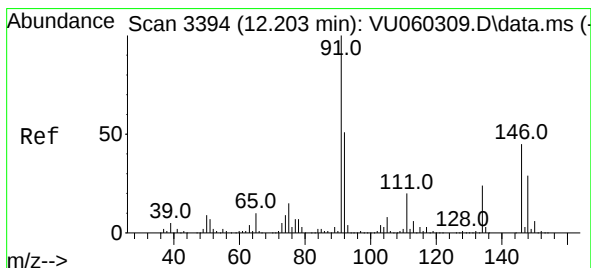
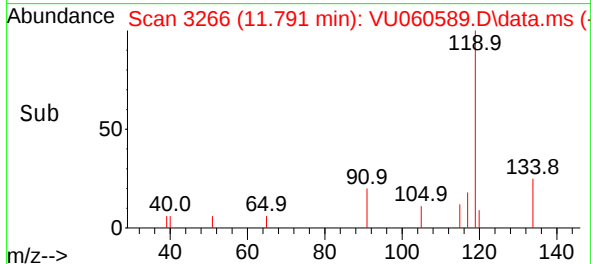
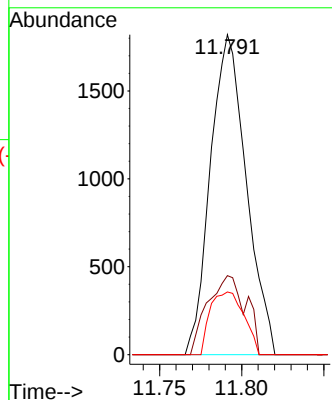
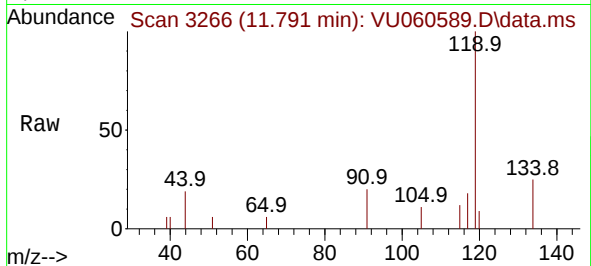




#81  
 p-Isopropyltoluene  
 Concen: 0.586 ug/l  
 RT: 11.791 min Scan# 3266  
 Delta R.T. 0.003 min  
 Lab File: VU060589.D  
 Acq: 03 Sep 2024 16:53

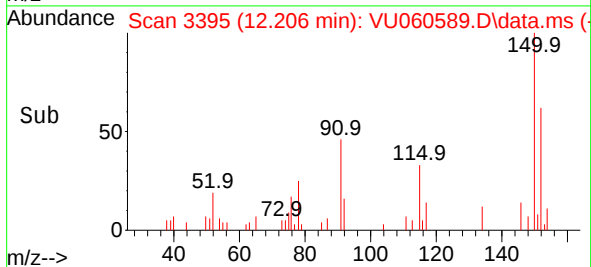
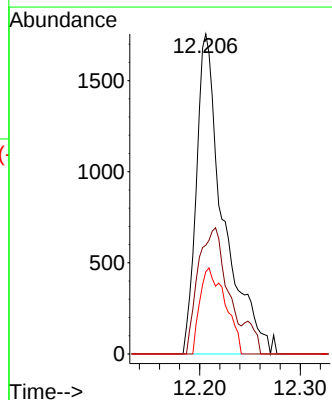
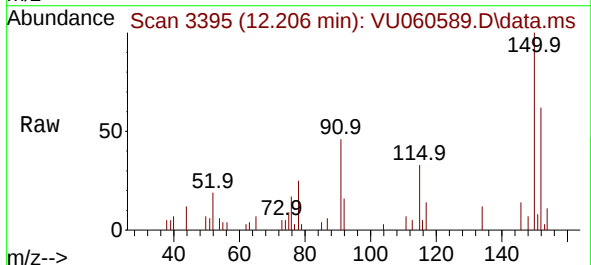
Instrument :  
 MSVOA\_U  
 ClientSampleId :

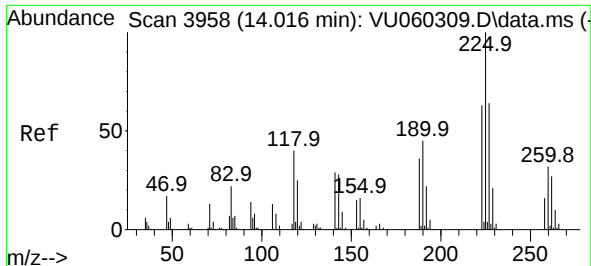
Tgt Ion:119 Resp: 2762  
 Ion Ratio Lower Upper  
 119 100  
 134 26.2 21.2 31.8  
 91 18.4 18.9 28.3#



#84  
 n-Butylbenzene  
 Concen: 0.592 ug/l  
 RT: 12.206 min Scan# 3395  
 Delta R.T. 0.003 min  
 Lab File: VU060589.D  
 Acq: 03 Sep 2024 16:53

Tgt Ion: 91 Resp: 3275  
 Ion Ratio Lower Upper  
 91 100  
 92 42.3 41.0 61.6  
 134 25.1 19.4 29.2

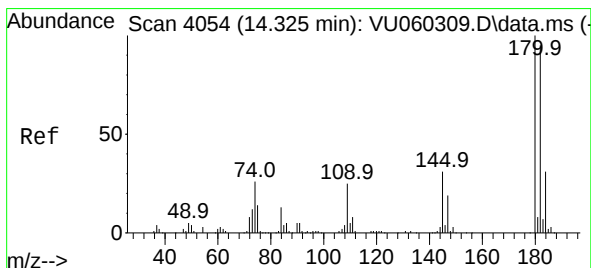
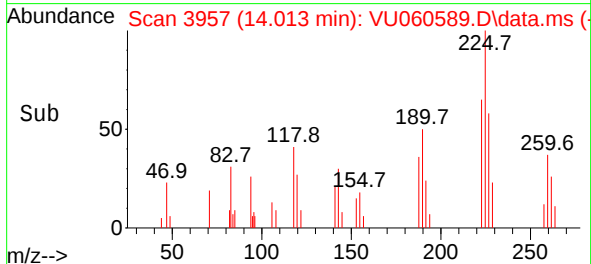
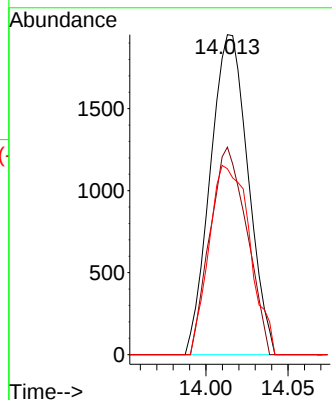
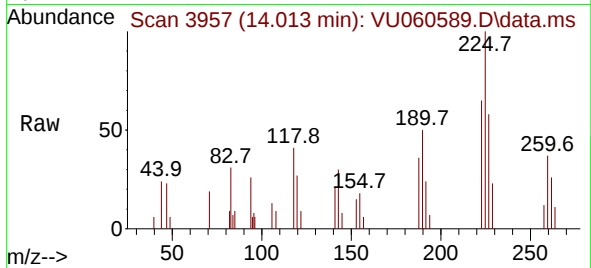




#88  
Hexachlorobutadiene  
Concen: 0.467 ug/l  
RT: 14.013 min Scan# 3957  
Delta R.T. -0.003 min  
Lab File: VU060589.D  
Acq: 03 Sep 2024 16:53

Instrument :  
MSVOA\_U  
ClientSampleId :

Tgt Ion:225 Resp: 3121  
Ion Ratio Lower Upper  
225 100  
223 63.2 50.8 76.2  
227 63.7 50.8 76.2



#90  
1,2,3-Trichlorobenzene  
Concen: 0.644 ug/l  
RT: 14.325 min Scan# 4054  
Delta R.T. -0.000 min  
Lab File: VU060589.D  
Acq: 03 Sep 2024 16:53

Tgt Ion:180 Resp: 6494  
Ion Ratio Lower Upper  
180 100  
182 92.7 76.1 114.1  
145 31.2 25.0 37.6

