

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU030322\  
 Data File : VU047313.D  
 Acq On : 03 Mar 2022 14:24  
 Operator : SY/MD  
 Sample : N1773-03  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFY11

Quant Time: Mar 04 01:55:06 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR021622WMA.M  
 Quant Title : TRACE VOA SFAM1.0  
 QLast Update : Fri Mar 04 01:50:04 2022  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.253  | 114   | 143455   | 5.000    | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417  | 117   | 147836   | 5.000    | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812 | 152   | 91848    | 5.000    | ug/L   | 0.00     |
|                               |        |       |          |          |        |          |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.600  | 65    | 45000    | 3.714    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 40 - 130 | Recovery | =      | 74.200%  |
| 7) Chloroethane-d5            | 1.919  | 69    | 37749    | 3.931    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 130 | Recovery | =      | 78.600%  |
| 11) 1,1-Dichloroethene-d2     | 2.571  | 65    | 19534    | 3.898    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 125 | Recovery | =      | 78.000%  |
| 20) 2-Butanone-d5             | 4.649  | 46    | 152150   | 52.540   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 40 - 130 | Recovery | =      | 105.080% |
| 24) Chloroform-d              | 5.070  | 84    | 86331    | 4.290    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 85.800%  |
| 26) 1,2-Dichloroethane-d4     | 5.706  | 65    | 47267    | 4.224    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 84.400%  |
| 32) Benzene-d6                | 5.732  | 84    | 174199   | 4.217    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 125 | Recovery | =      | 84.400%  |
| 36) 1,2-Dichloropropane-d6    | 6.693  | 67    | 56143    | 4.271    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 60 - 140 | Recovery | =      | 85.400%  |
| 41) Toluene-d8                | 7.899  | 98    | 163643   | 4.050    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 70 - 130 | Recovery | =      | 81.000%  |
| 43) trans-1,3-Dichloroprop... | 8.182  | 79    | 24284    | 4.076    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 55 - 130 | Recovery | =      | 81.600%  |
| 46) 2-Hexanone-d5             | 8.636  | 63    | 131257   | 41.839   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 45 - 130 | Recovery | =      | 83.680%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758 | 84    | 52662    | 4.408    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 65 - 120 | Recovery | =      | 88.200%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195 | 152   | 72651    | 4.409    | ug/L   | 0.00     |
| Spiked Amount                 | 5.000  | Range | 80 - 120 | Recovery | =      | 88.200%  |
|                               |        |       |          |          |        |          |
| Target Compounds              |        |       |          |          |        | Qvalue   |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.571  | 101   | 628      | 0.064    | ug/L # | 1        |
| 15) Methyl Acetate            | 2.967  | 43    | 2372     | 0.529    | ug/L # | 51       |
| 17) Methyl tert-butyl Ether   | 3.369  | 73    | 36808    | 1.427    | ug/L # | 57       |
| 19) 1,1-Dichloroethane        | 3.874  | 63    | 2477     | 0.139    | ug/L   | 94       |
| 21) 2-Butanone                | 4.735  | 43    | 8275     | 3.039    | ug/L   | 99       |
| 22) cis-1,2-Dichloroethene    | 4.674  | 96    | 15680    | 1.412    | ug/L   | 94       |
| 27) 1,2-Dichloroethane        | 5.800  | 62    | 1135     | 0.091    | ug/L # | 1        |
| 30) Cyclohexane               | 5.398  | 56    | 2315     | 0.133    | ug/L # | 81       |
| 33) Benzene                   | 5.777  | 78    | 48177    | 1.147    | ug/L   | 100      |
| 34) Trichloroethene           | 6.546  | 95    | 70021    | 6.249    | ug/L   | 95       |
| 37) 1,2-Dichloropropane       | 6.693  | 63    | 5688     | 0.524    | ug/L # | 90       |
| 39) cis-1,3-Dichloropropene   | 7.568  | 75    | 1521     | 0.090    | ug/L # | 1        |
| 45) 1,1,2-Trichloroethane     | 8.372  | 97    | 5581     | 0.662    | ug/L # | 18       |
| 47) Tetrachloroethene         | 8.555  | 164   | 328563   | 36.135   | ug/L   | 92       |
| 49) Dibromochloromethane      | 8.555  | 129   | 299965   | 29.532   | ug/L # | 10       |
| 53) m,p-Xylene                | 9.693  | 106   | 1967     | 0.098    | ug/L   | 93       |
| 60) Isopropylbenzene          | 10.484 | 105   | 11541    | 0.214    | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene    | 11.896 | 105   | 6788     | 0.189    | ug/L   | 89       |
| 63) 1,2,4-Trimethylbenzene    | 11.896 | 105   | 6788     | 0.147    | ug/L   | 94       |

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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFY11

Quant Time: Mar 04 01:55:06 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMUTR021622WMA.M  
Quant Title : TRACE VOA SFAM1.0  
QLast Update : Fri Mar 04 01:50:04 2022  
Response via : Initial Calibration

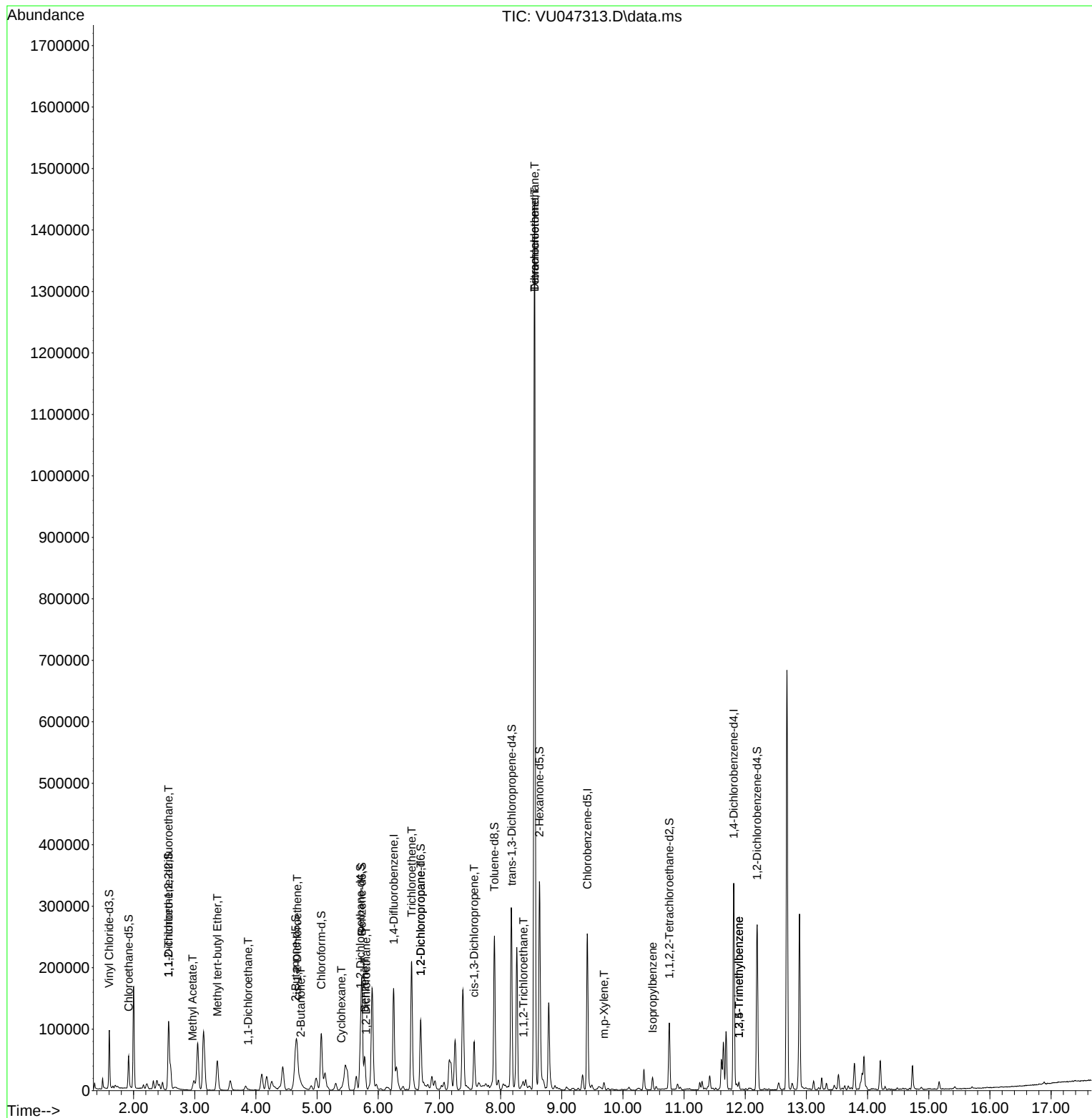
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
| -----    |      |      |          |      |       |          |
| -----    |      |      |          |      |       |          |

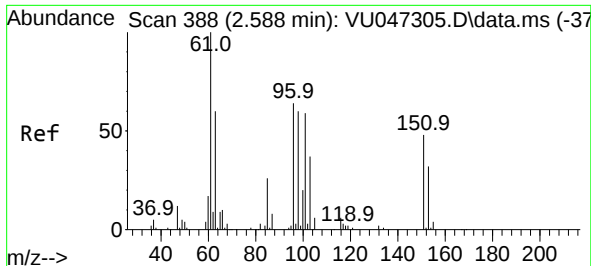
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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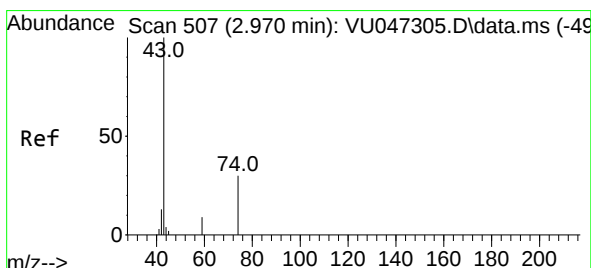
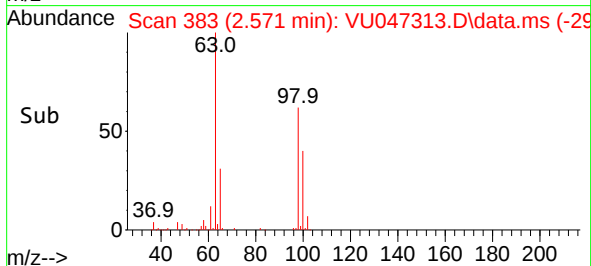
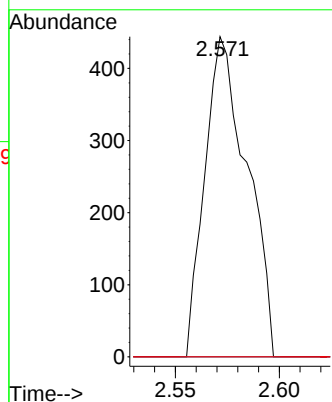
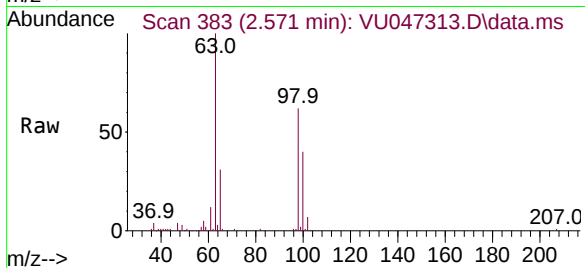




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.064 ug/L  
RT: 2.571 min Scan# 388  
Delta R.T. -0.016 min  
Lab File: VU047313.D  
Acq: 03 Mar 2022 14:24

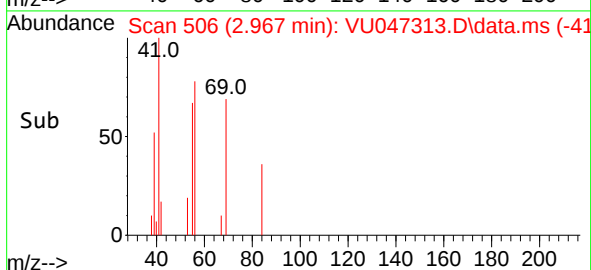
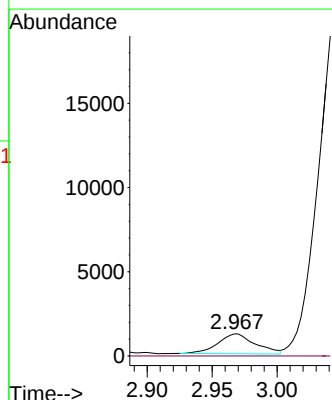
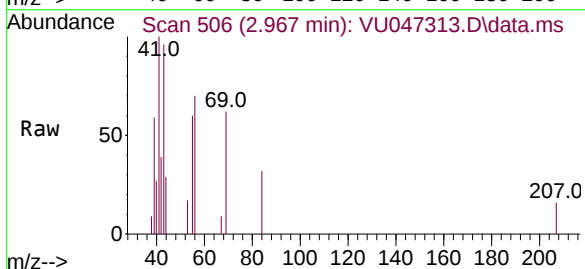
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFY11

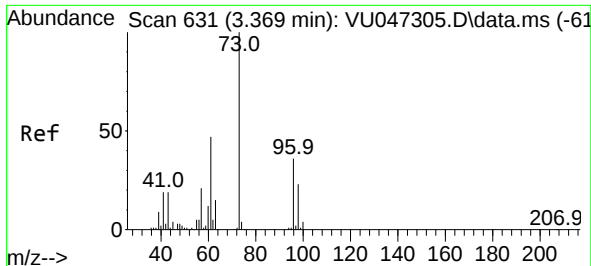
Tgt Ion:101 Resp: 628  
Ion Ratio Lower Upper  
101 100  
85 246.8 34.6 51.8#  
151 0.0 56.1 84.1#



#15  
Methyl Acetate  
Concen: 0.529 ug/L  
RT: 2.967 min Scan# 506  
Delta R.T. -0.003 min  
Lab File: VU047313.D  
Acq: 03 Mar 2022 14:24

Tgt Ion: 43 Resp: 2372  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.1 28.7#





#17

Methyl tert-butyl Ether

Concen: 1.427 ug/L

RT: 3.369 min Scan# 61

Delta R.T. -0.000 min

Lab File: VU047313.D

Acq: 03 Mar 2022 14:24

Instrument :

MSVOA\_U

ClientSampleId :

BFY11

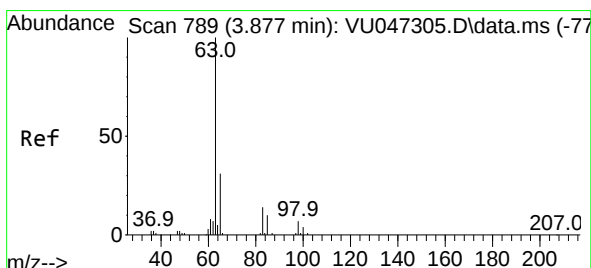
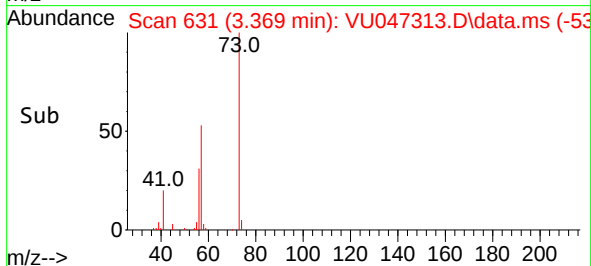
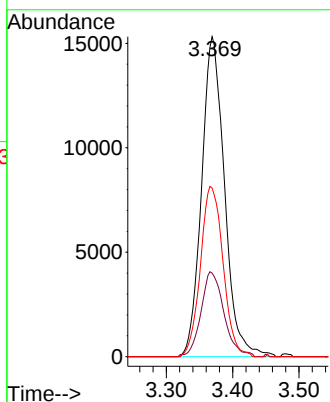
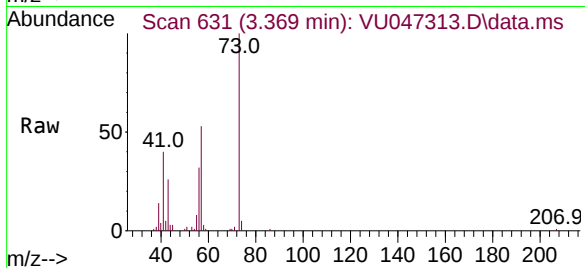
Tgt Ion: 73 Resp: 36808

Ion Ratio Lower Upper

73 100

43 26.5 14.8 22.2#

57 52.5 17.4 26.0#



#19

1,1-Dichloroethane

Concen: 0.139 ug/L

RT: 3.874 min Scan# 788

Delta R.T. -0.003 min

Lab File: VU047313.D

Acq: 03 Mar 2022 14:24

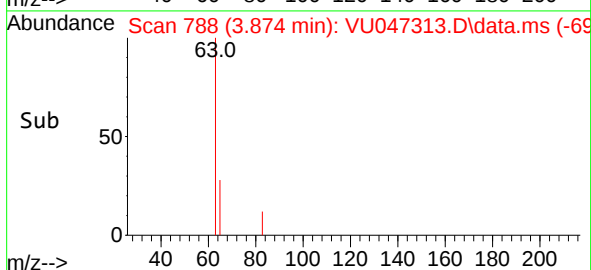
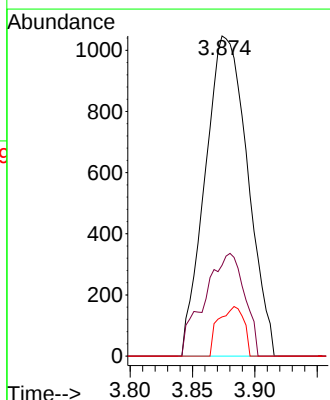
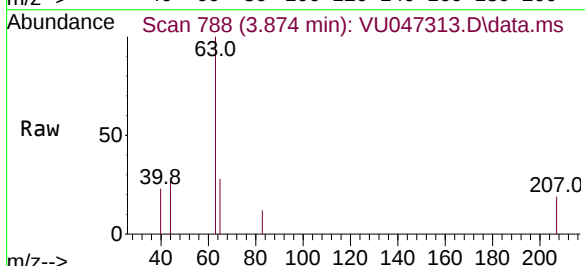
Tgt Ion: 63 Resp: 2477

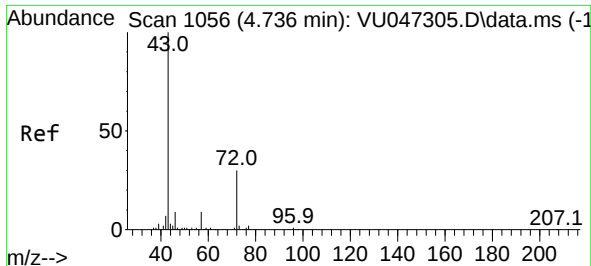
Ion Ratio Lower Upper

63 100

65 28.4 22.3 41.5

83 12.2 9.6 17.8





#21

2-Butanone

Concen: 3.039 ug/L

RT: 4.735 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VU047313.D

Acq: 03 Mar 2022 14:24

Instrument :

MSVOA\_U

ClientSampleId :

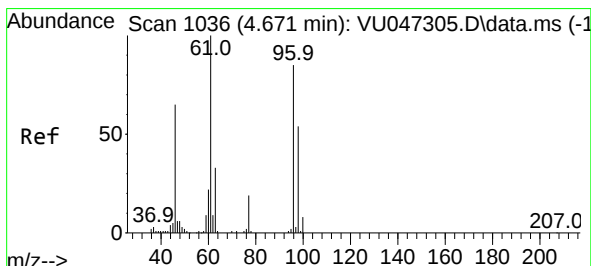
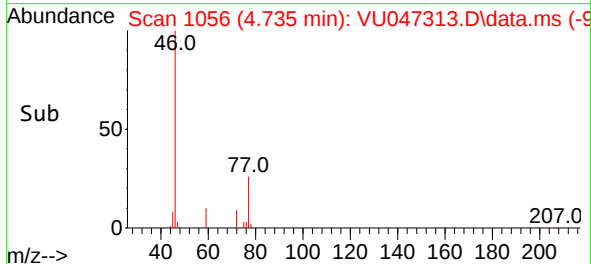
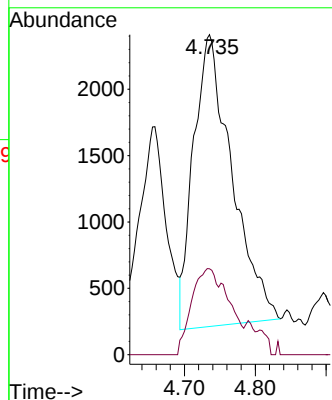
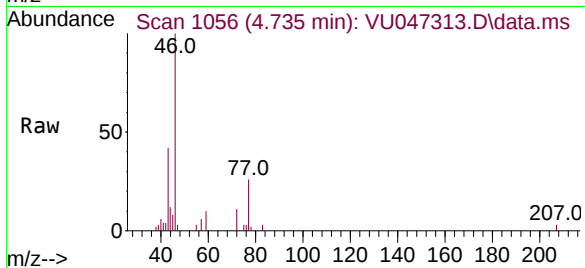
BFY11

Tgt Ion: 43 Resp: 8275

Ion Ratio Lower Upper

43 100

72 28.8 14.1 42.3



#22

cis-1,2-Dichloroethene

Concen: 1.412 ug/L

RT: 4.674 min Scan# 1037

Delta R.T. 0.003 min

Lab File: VU047313.D

Acq: 03 Mar 2022 14:24

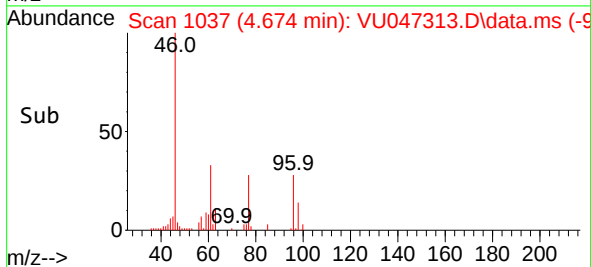
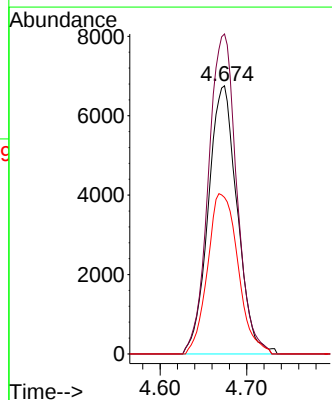
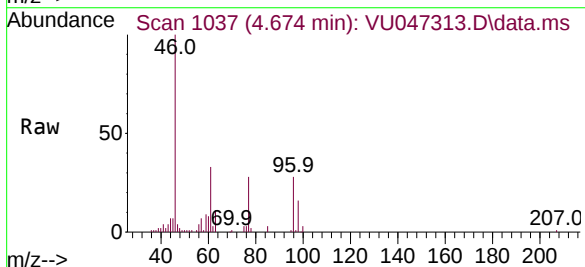
Tgt Ion: 96 Resp: 15680

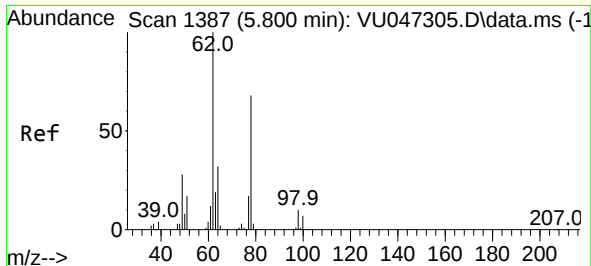
Ion Ratio Lower Upper

96 100

61 119.3 88.5 164.3

98 58.4 44.4 82.5

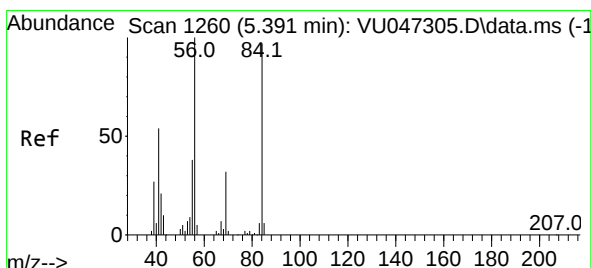
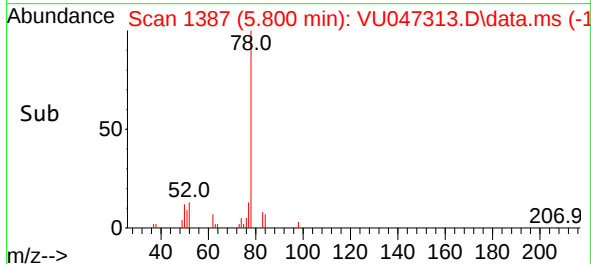
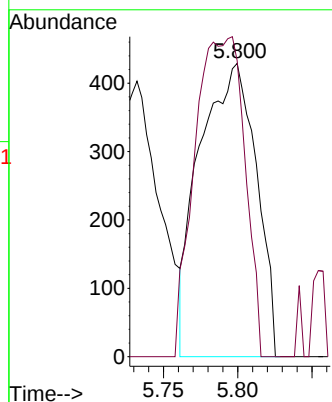
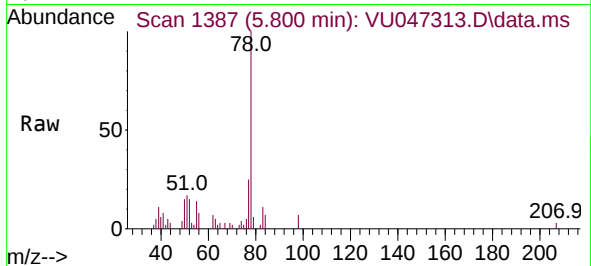




#27  
1,2-Dichloroethane  
Concen: 0.091 ug/L  
RT: 5.800 min Scan# 1135  
Delta R.T. -0.000 min  
Lab File: VU047313.D  
Acq: 03 Mar 2022 14:24

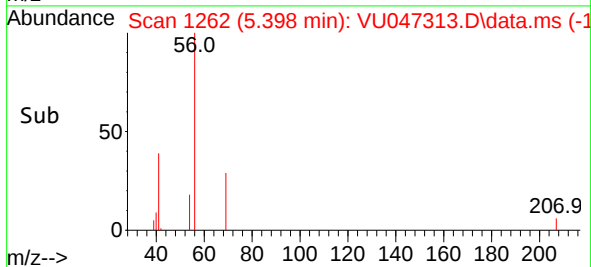
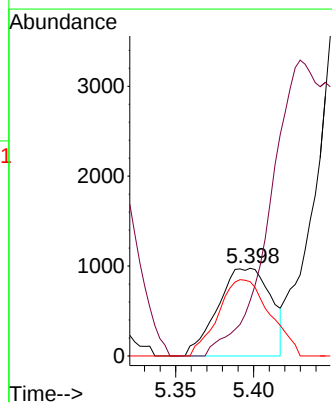
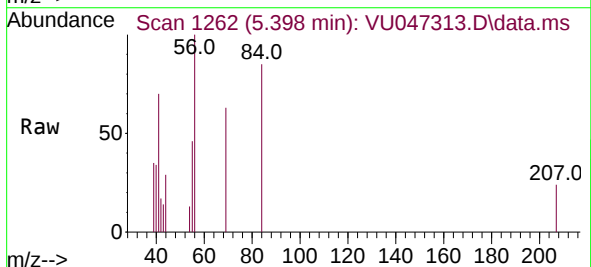
Instrument :  
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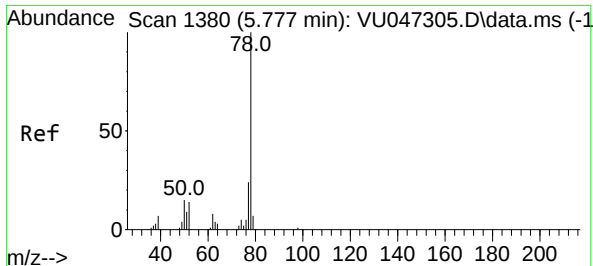
Tgt Ion: 62 Resp: 1135  
Ion Ratio Lower Upper  
62 100  
98 100.9 7.8 11.8#



#30  
Cyclohexane  
Concen: 0.133 ug/L  
RT: 5.398 min Scan# 1262  
Delta R.T. 0.006 min  
Lab File: VU047313.D  
Acq: 03 Mar 2022 14:24

Tgt Ion: 56 Resp: 2315  
Ion Ratio Lower Upper  
56 100  
69 0.0 24.7 37.1#  
84 84.3 71.8 107.6

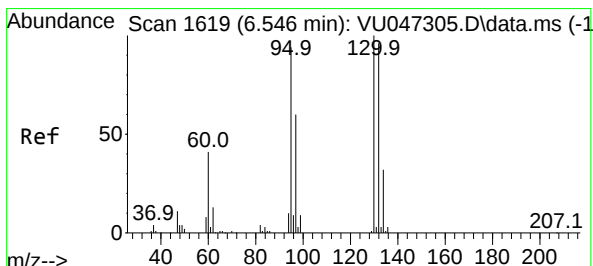
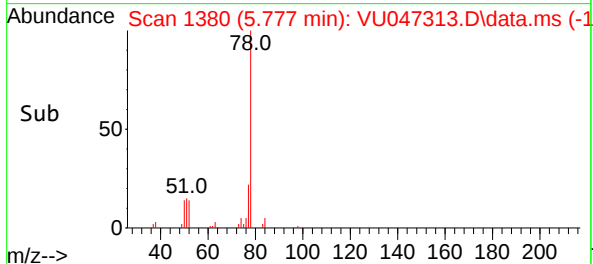
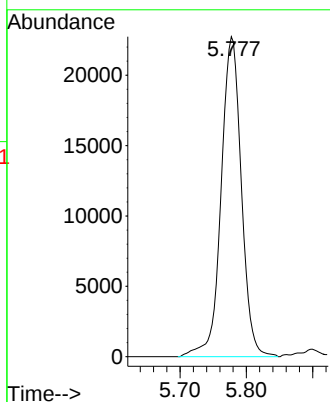
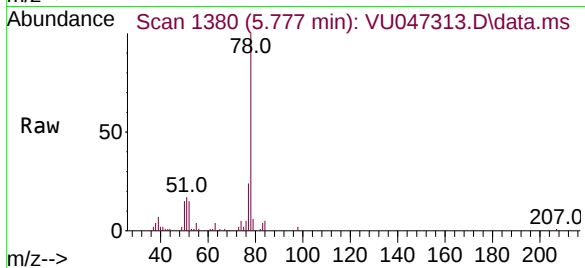




#33  
Benzene  
Concen: 1.147 ug/L  
RT: 5.777 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VU047313.D  
Acq: 03 Mar 2022 14:24

Instrument :  
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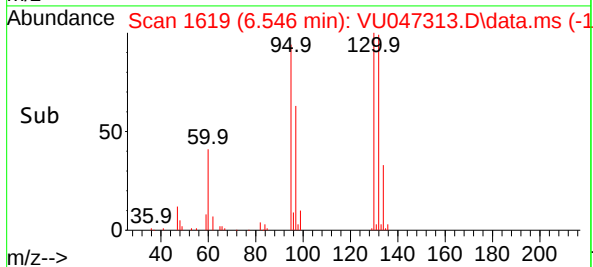
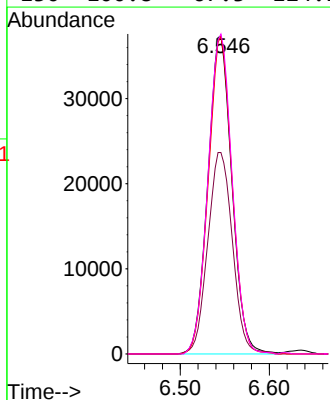
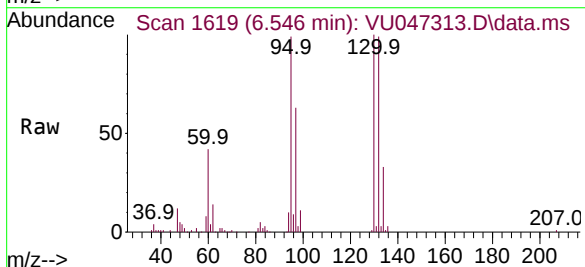
Tgt Ion: 78 Resp: 48177

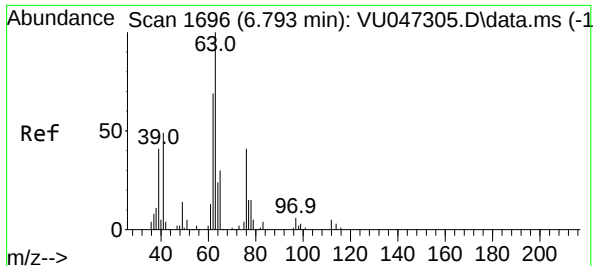


#34  
Trichloroethene  
Concen: 6.249 ug/L  
RT: 6.546 min Scan# 1619  
Delta R.T. -0.000 min  
Lab File: VU047313.D  
Acq: 03 Mar 2022 14:24

Tgt Ion: 95 Resp: 70021

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 95  | 100   |       |       |
| 97  | 63.4  | 46.5  | 86.5  |
| 132 | 100.0 | 65.1  | 120.9 |
| 130 | 100.8 | 67.3  | 124.9 |





#37

1,2-Dichloropropane

Concen: 0.524 ug/L

RT: 6.693 min Scan# 1

Delta R.T. -0.100 min

Lab File: VU047313.D

Acq: 03 Mar 2022 14:24

Instrument :

MSVOA\_U

ClientSampleId :

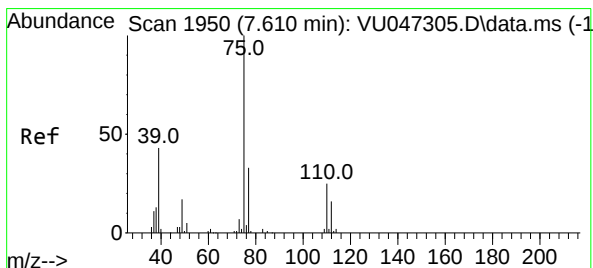
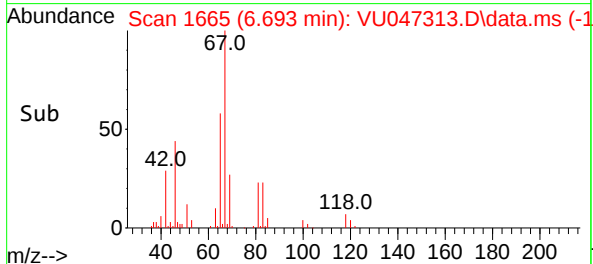
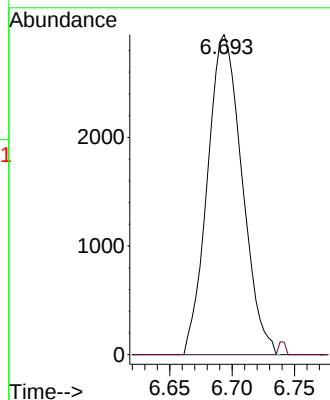
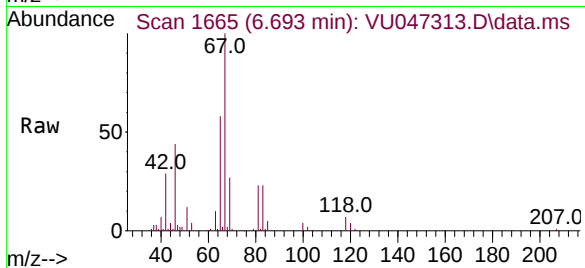
BFY11

Tgt Ion: 63 Resp: 5688

Ion Ratio Lower Upper

63 100

112 0.8 3.2 4.8#



#39

cis-1,3-Dichloropropene

Concen: 0.090 ug/L

RT: 7.568 min Scan# 1937

Delta R.T. -0.042 min

Lab File: VU047313.D

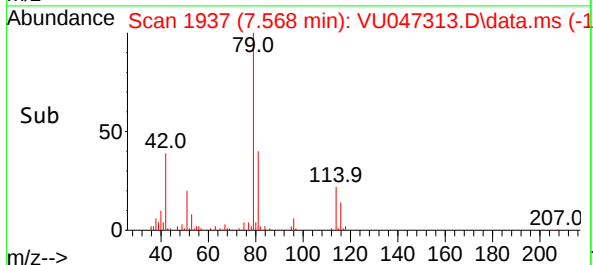
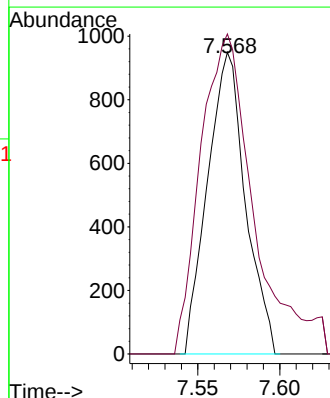
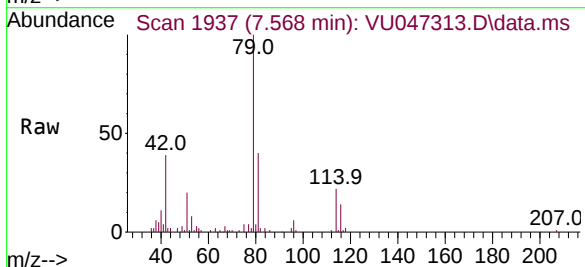
Acq: 03 Mar 2022 14:24

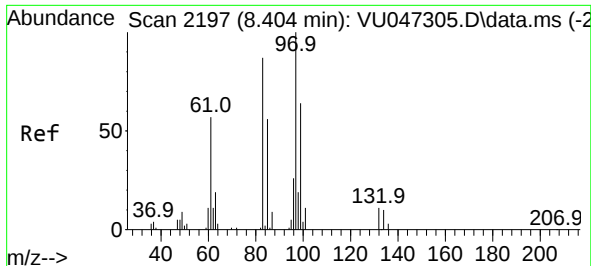
Tgt Ion: 75 Resp: 1521

Ion Ratio Lower Upper

75 100

77 106.1 22.5 41.9#

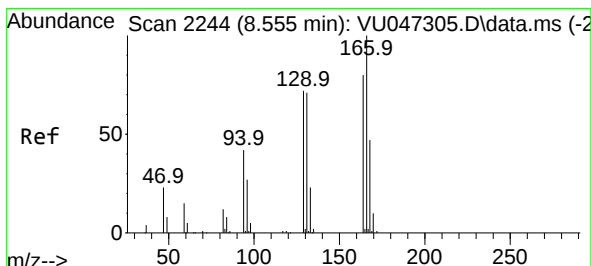
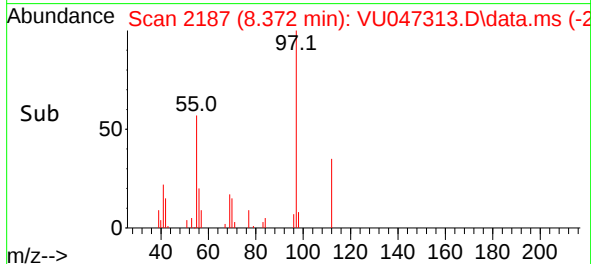
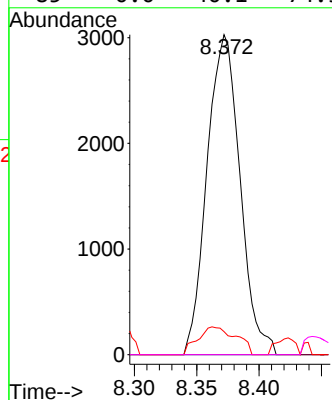
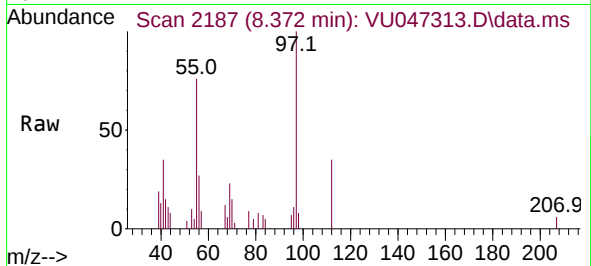




#45  
1,1,2-Trichloroethane  
Concen: 0.662 ug/L  
RT: 8.372 min Scan# 2197  
Delta R.T. -0.032 min  
Lab File: VU047313.D  
Acq: 03 Mar 2022 14:24

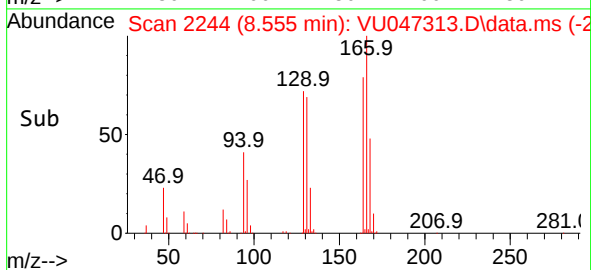
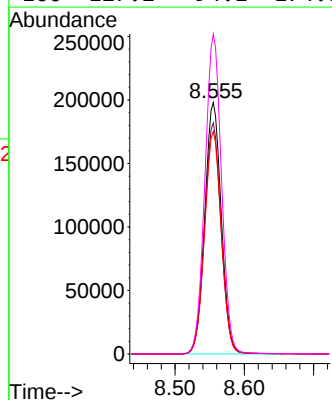
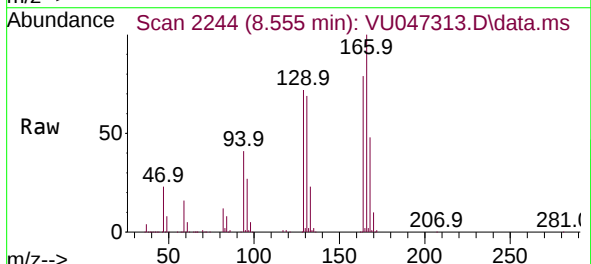
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFY11

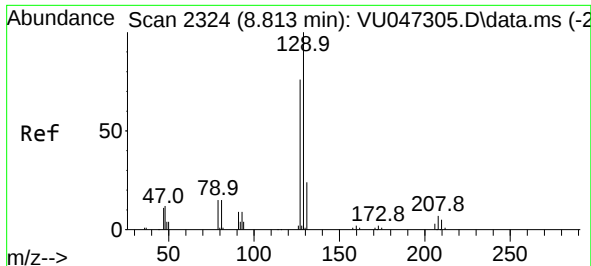
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 5581  |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 99 0.0      | 42.3 78.5#  |
| 83 7.2      | 62.0 115.2# |
| 85 0.0      | 40.1 74.5#  |



#47  
Tetrachloroethene  
Concen: 36.135 ug/L  
RT: 8.555 min Scan# 2244  
Delta R.T. -0.000 min  
Lab File: VU047313.D  
Acq: 03 Mar 2022 14:24

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:164 | Resp: | 328563 |
| Ion | Ratio   | Lower | Upper  |
| 164 | 100     |       |        |
| 129 | 91.9    | 71.8  | 133.4  |
| 131 | 88.4    | 68.5  | 127.3  |
| 166 | 127.2   | 94.1  | 174.8  |





#49

Dibromochloromethane

Concen: 29.532 ug/L

RT: 8.555 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU047313.D

Acq: 03 Mar 2022 14:24

Instrument :

MSVOA\_U

ClientSampleId :

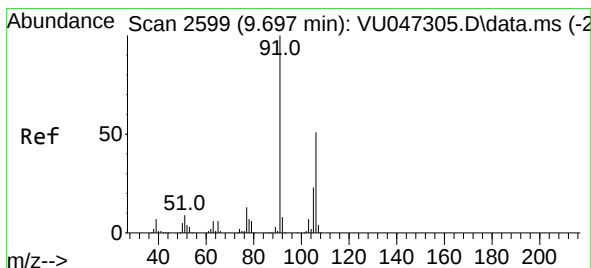
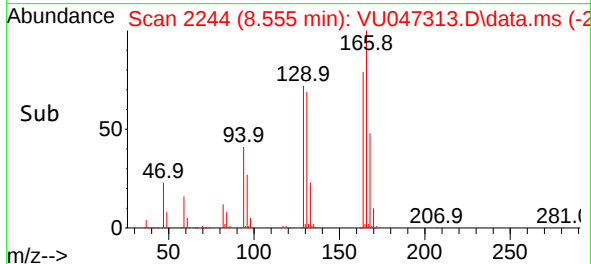
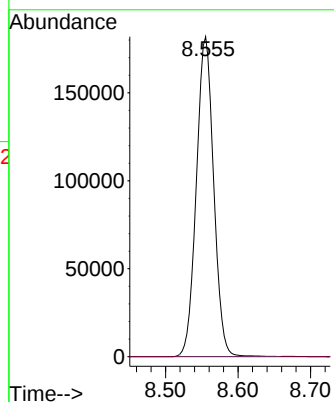
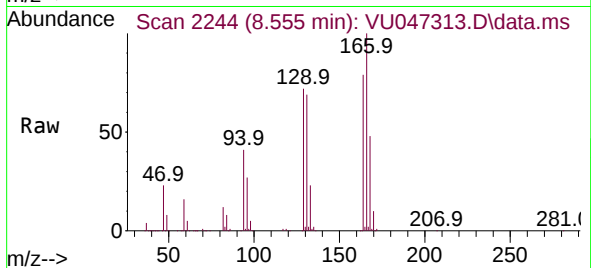
BFY11

Tgt Ion:129 Resp: 299965

Ion Ratio Lower Upper

129 100

127 0.0 55.4 102.8#



#53

m,p-Xylene

Concen: 0.098 ug/L

RT: 9.693 min Scan# 2598

Delta R.T. -0.003 min

Lab File: VU047313.D

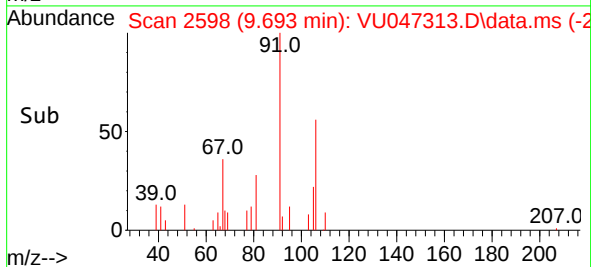
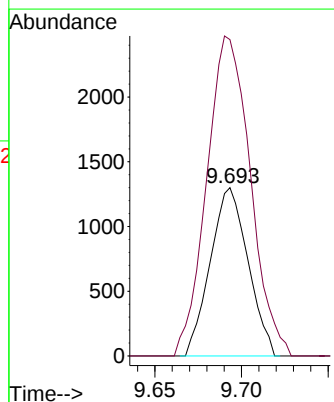
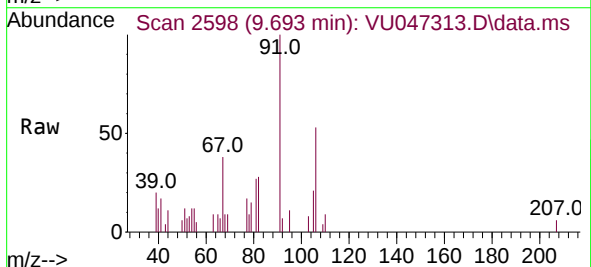
Acq: 03 Mar 2022 14:24

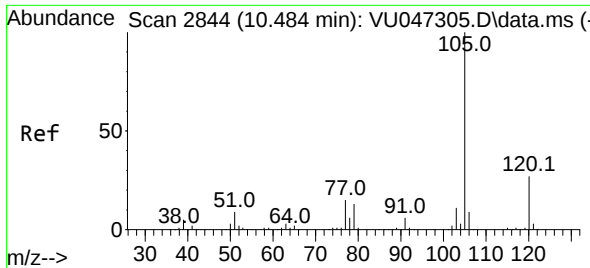
Tgt Ion:106 Resp: 1967

Ion Ratio Lower Upper

106 100

91 187.9 139.4 259.0

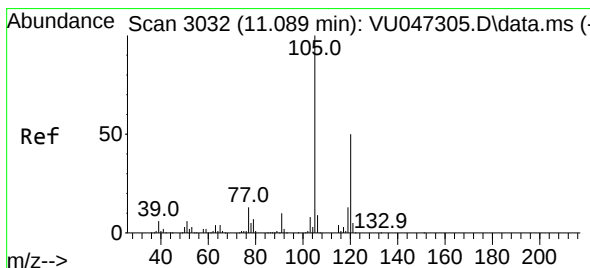
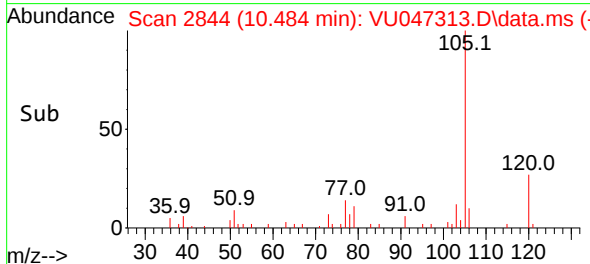
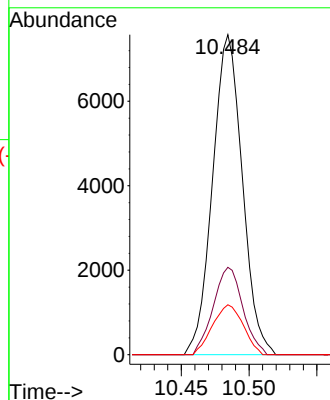
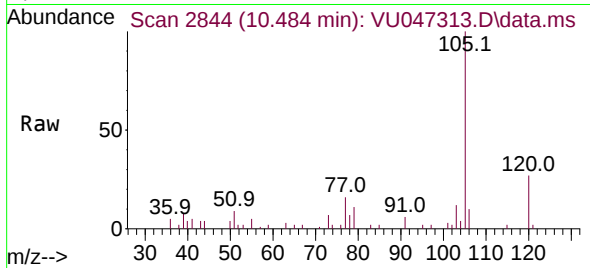




#60  
Isopropylbenzene  
Concen: 0.214 ug/L  
RT: 10.484 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU047313.D  
Acq: 03 Mar 2022 14:24

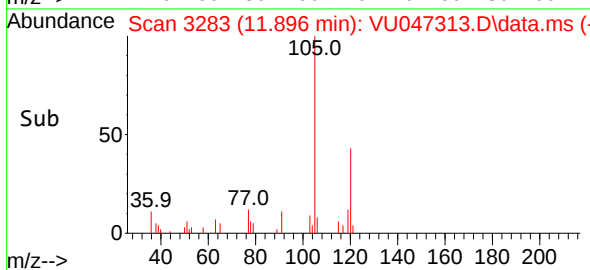
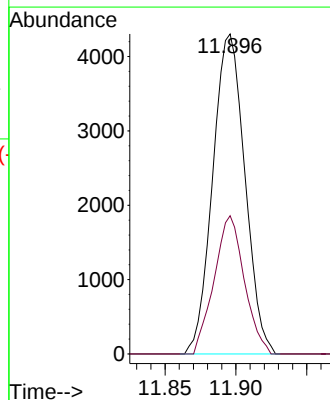
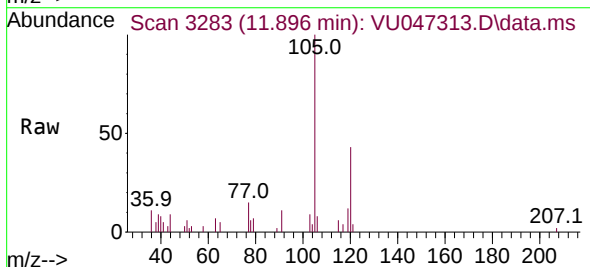
Instrument :  
MSVOA\_U  
ClientSampleId :  
BFY11

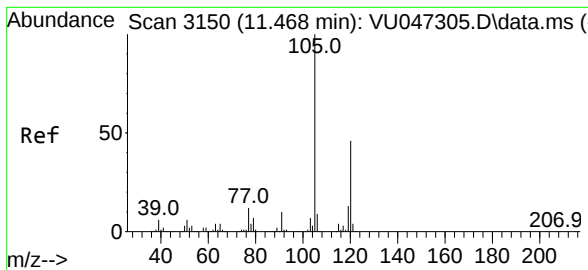
Tgt Ion:105 Resp: 11541  
Ion Ratio Lower Upper  
105 100  
120 27.2 20.7 31.1  
77 16.1 12.6 19.0



#62  
1,3,5-Trimethylbenzene  
Concen: 0.189 ug/L  
RT: 11.896 min Scan# 3283  
Delta R.T. 0.807 min  
Lab File: VU047313.D  
Acq: 03 Mar 2022 14:24

Tgt Ion:105 Resp: 6788  
Ion Ratio Lower Upper  
105 100  
120 40.6 38.3 57.5





#63  
 1,2,4-Trimethylbenzene  
 Concen: 0.147 ug/L  
 RT: 11.896 min Scan# 31  
 Delta R.T. 0.427 min  
 Lab File: VU047313.D  
 Acq: 03 Mar 2022 14:24

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFY11

Tgt Ion:105 Resp: 6788  
 Ion Ratio Lower Upper  
 105 100  
 120 40.6 35.8 53.8

