

Data File : VU035037.D  
Acq On : 10 Oct 2019 10:17  
Operator : JC/SP  
Sample : MDL02  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL02

Quant Time: Oct 11 02:43:08 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Oct 11 02:39:08 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 5.86  | 114  | 171706   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.07  | 117  | 173193   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.47 | 152  | 74195    | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39   | 65    | 57225    | 5.64     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 112.80% |
| 7) Chloroethane-d5             | 1.68   | 69    | 51639    | 5.45     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 109.00% |
| 11) 1,1-Dichloroethene-d2      | 2.26   | 63    | 85912    | 4.01     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 80.20%  |
| 20) 2-Butanone-d5              | 4.19   | 46    | 172687   | 57.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 115.54% |
| 24) Chloroform-d               | 4.62   | 84    | 102396   | 5.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 108.00% |
| 26) 1,2-Dichloroethane-d4      | 5.29   | 65    | 60355    | 5.31     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 106.20% |
| 32) Benzene-d6                 | 5.32   | 84    | 212710   | 5.24     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 104.80% |
| 36) 1,2-Dichloropropane-d6     | 6.31   | 67    | 70912    | 5.22     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 104.40% |
| 41) Toluene-d8                 | 7.55   | 98    | 190058   | 4.84     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 96.80%  |
| 43) trans-1,3-Dichloropropene- | 7.84   | 79    | 21900    | 4.48     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.60%  |
| 46) 2-Hexanone-d5              | 8.30   | 63    | 122323   | 52.64    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 105.28% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.41  | 84    | 59515    | 5.20     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 104.00% |
| 64) 1,2-Dichlorobenzene-d4     | 11.84  | 152   | 67599    | 5.40     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 108.00% |

#### Target Compounds

|                                |      |     |       |              | Qvalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.20 | 85  | 5136  | 0.327 ug/L   | 96     |
| 3) Chloromethane               | 1.32 | 50  | 6395  | 0.372 ug/L   | 100    |
| 5) Vinyl chloride              | 1.40 | 62  | 6324  | 0.374 ug/L   | 89     |
| 6) Bromomethane                | 1.62 | 94  | 3770  | 0.401 ug/L   | 95     |
| 8) Chloroethane                | 1.69 | 64  | 3411  | 0.336 ug/L   | 94     |
| 9) Trichlorofluoromethane      | 1.88 | 101 | 6996  | 0.342 ug/L   | 97     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.28 | 101 | 4562  | 0.389 ug/L   | 91     |
| 12) 1,1-Dichloroethene         | 2.27 | 96  | 4194  | 0.380 ug/L # | 1      |
| 13) Acetone                    | 2.34 | 43  | 10833 | 4.425 ug/L   | 91     |
| 14) Carbon disulfide           | 2.47 | 76  | 12034 | 0.328 ug/L # | 92     |
| 15) Methyl Acetate             | 2.61 | 43  | 2812  | 0.432 ug/L # | 81     |
| 16) Methylene chloride         | 2.69 | 84  | 6368  | 0.466 ug/L   | 87     |
| 17) Methyl tert-butyl Ether    | 2.99 | 73  | 10910 | 0.363 ug/L   | 99     |
| 18) trans-1,2-Dichloroethene   | 2.96 | 96  | 4360  | 0.369 ug/L   | 99     |
| 19) 1,1-Dichloroethane         | 3.42 | 63  | 8273  | 0.352 ug/L   | 93     |
| 21) 2-Butanone                 | 4.29 | 43  | 11133 | 3.193 ug/L   | 89     |
| 22) cis-1,2-Dichloroethene     | 4.20 | 96  | 4333  | 0.329 ug/L   | 89     |

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MSVOA\_U  
ClientSampleId :  
MDL02

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR100719WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Fri Oct 11 02:39:08 2019  
Response via : Initial Calibration

| Internal Standards            | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane        | 4.53  | 128  | 1813     | 0.328 | ug/L   | 97       |
| 25) Chloroform                | 4.65  | 83   | 16136    | 0.612 | ug/L   | 99       |
| 27) 1,2-Dichloroethane        | 5.39  | 62   | 5790     | 0.376 | ug/L   | 99       |
| 29) 1,1,1-Trichloroethane     | 4.90  | 97   | 6515     | 0.335 | ug/L   | 99       |
| 30) Cyclohexane               | 4.97  | 56   | 6669     | 0.312 | ug/L   | 98       |
| 31) Carbon tetrachloride      | 5.11  | 117  | 5305     | 0.315 | ug/L   | 96       |
| 33) Benzene                   | 5.37  | 78   | 17120    | 0.328 | ug/L   | 100      |
| 34) Trichloroethene           | 6.17  | 95   | 4870     | 0.362 | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.40  | 83   | 6961     | 0.319 | ug/L   | 96       |
| 37) 1,2-Dichloropropane       | 6.41  | 63   | 5523     | 0.392 | ug/L   | 100      |
| 38) Bromodichloromethane      | 6.74  | 83   | 5444     | 0.330 | ug/L   | 97       |
| 39) cis-1,3-Dichloropropene   | 7.26  | 75   | 5669     | 0.297 | ug/L   | 99       |
| 40) 4-Methyl-2-pentanone      | 7.45  | 43   | 29034    | 3.278 | ug/L   | 93       |
| 42) Toluene                   | 7.62  | 91   | 18307    | 0.336 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 7.87  | 75   | 5003     | 0.339 | ug/L   | 88       |
| 45) 1,1,2-Trichloroethane     | 8.05  | 97   | 3308     | 0.354 | ug/L   | 94       |
| 47) Tetrachloroethene         | 8.21  | 164  | 3727     | 0.342 | ug/L   | 79       |
| 48) 2-Hexanone                | 8.35  | 43   | 24474    | 4.030 | ug/L # | 93       |
| 49) Dibromochloromethane      | 8.46  | 129  | 3231     | 0.299 | ug/L   | 97       |
| 50) 1,2-Dibromoethane         | 8.58  | 107  | 2858     | 0.320 | ug/L # | 98       |
| 51) Chlorobenzene             | 9.10  | 112  | 11902    | 0.337 | ug/L   | 96       |
| 52) Ethylbenzene              | 9.23  | 91   | 19115    | 0.318 | ug/L   | 93       |
| 53) m,p-Xylene                | 9.36  | 106  | 6768     | 0.305 | ug/L   | 100      |
| 54) o-Xylene                  | 9.76  | 106  | 6174     | 0.284 | ug/L   | 94       |
| 55) Styrene                   | 9.78  | 104  | 9858     | 0.280 | ug/L   | 100      |
| 56) Isopropylbenzene          | 10.15 | 105  | 18038    | 0.312 | ug/L   | 97       |
| 58) 1,1,2,2-Tetrachloroethane | 10.44 | 83   | 4827     | 0.380 | ug/L   | 100      |
| 59) 1,2,3-Trichloropropane    | 10.48 | 75   | 3124     | 0.343 | ug/L   | 96       |
| 61) Bromoform                 | 9.95  | 173  | 1693     | 0.333 | ug/L # | 91       |
| 62) 1,3-Dichlorobenzene       | 11.40 | 146  | 7827     | 0.342 | ug/L   | 99       |
| 63) 1,4-Dichlorobenzene       | 11.49 | 146  | 8519     | 0.369 | ug/L   | 92       |
| 65) 1,2-Dichlorobenzene       | 11.86 | 146  | 8617     | 0.391 | ug/L   | 98       |
| 67) 1,3,5-Trichlorobenzene    | 12.87 | 180  | 4713     | 0.305 | ug/L   | 95       |
| 70) 1,2,3-Trichlorobenzene    | 13.98 | 180  | 2659     | 0.237 | ug/L # | 87       |

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

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```
ALS Vial      : 5      Sample Multiplier: 1
```

**Instrument :**  
MSVOA\_U  
**ClientSampleId :**  
MDL02

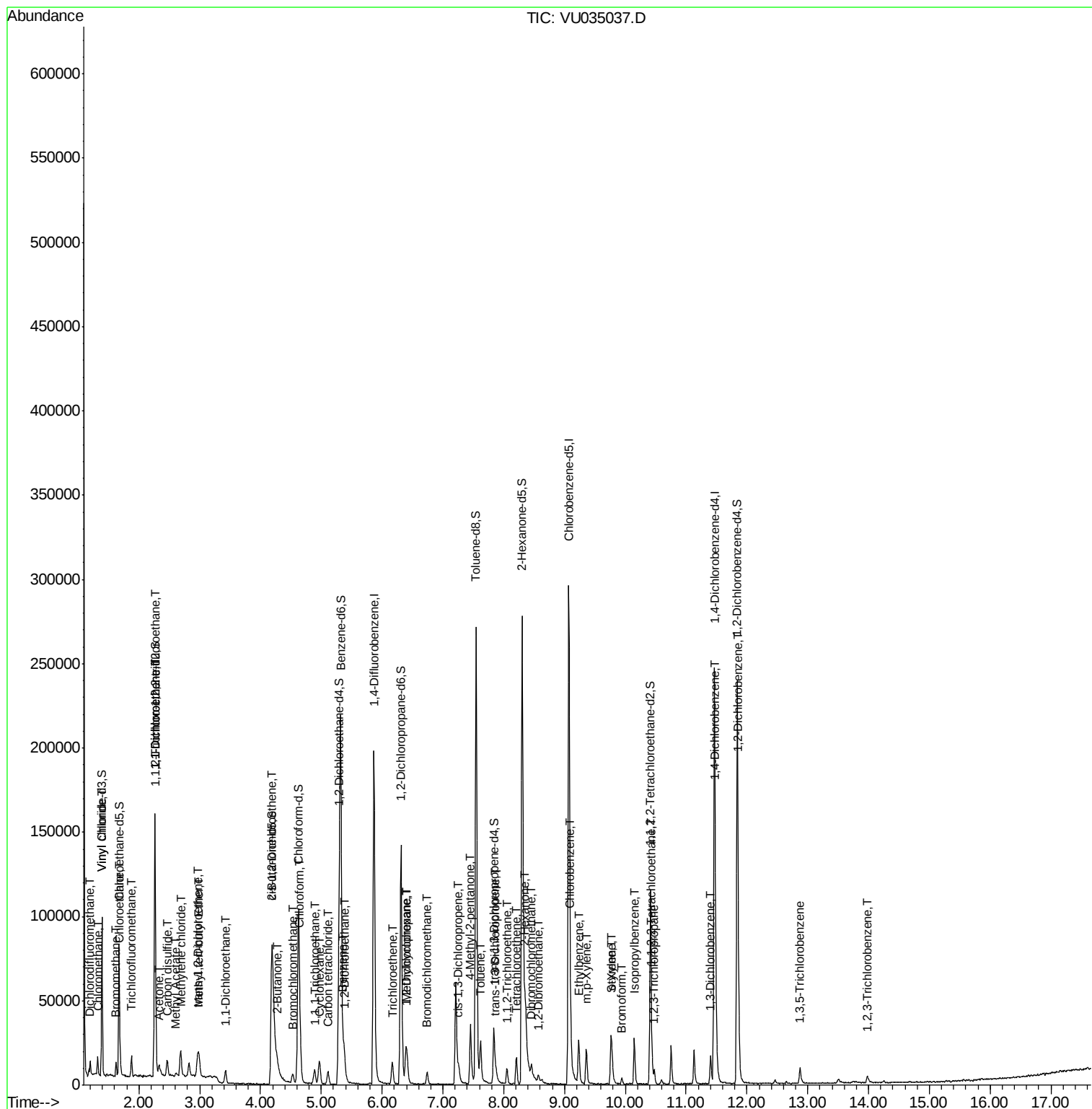
Quant Time: Oct 11 02:43:08 2019

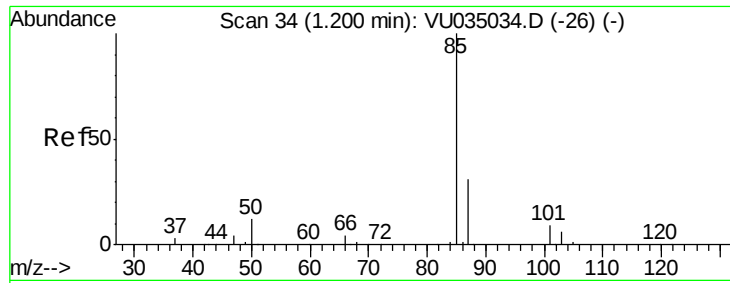
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A\_U\METHOD\SOMUTR100719WMA.M

Quant Title : TRACE VOA SOM01.0

QLast Update : Fri Oct 11 02:39:08 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.327 ug/L

RT: 1.20 min Scan# 34

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA\_U

ClientSampleId :

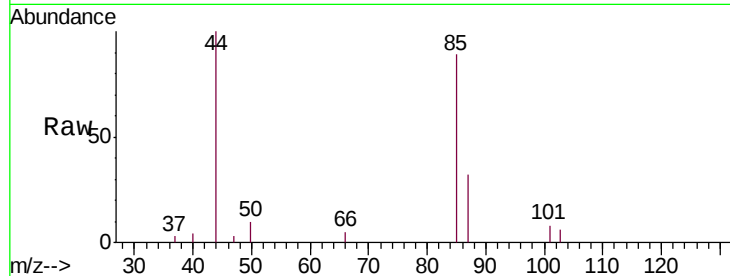
MDL02

Tgt Ion: 85 Resp: 5136

Ion Ratio Lower Upper

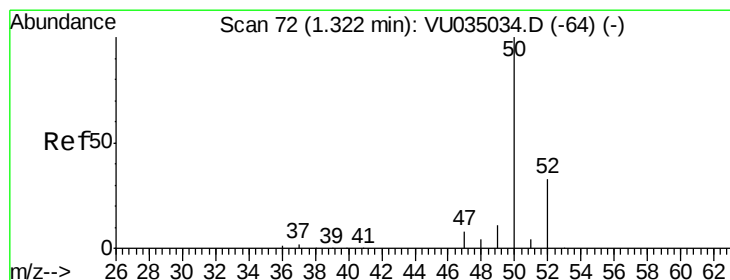
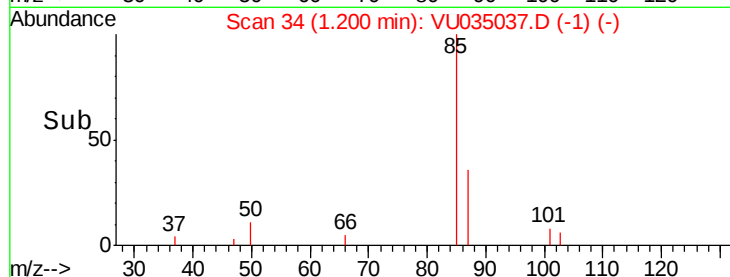
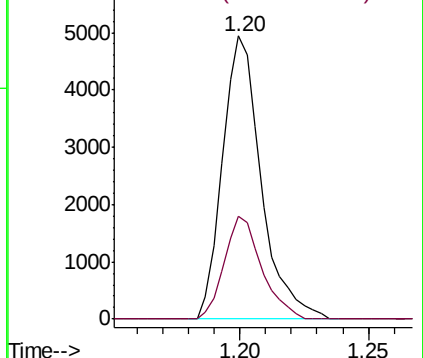
85 100

87 35.2 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VU035037.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU035037.D (-1) (-)



#3

Chloromethane

Concen: 0.372 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU035037.D

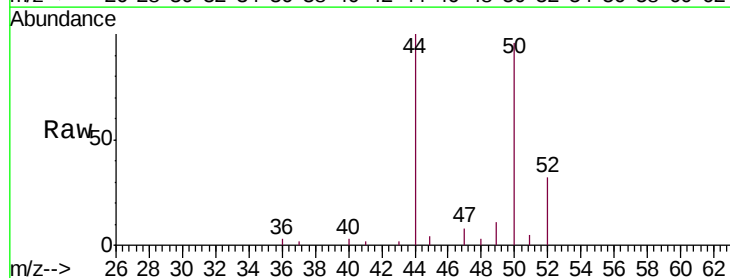
Acq: 10 Oct 2019 10:17

Tgt Ion: 50 Resp: 6395

Ion Ratio Lower Upper

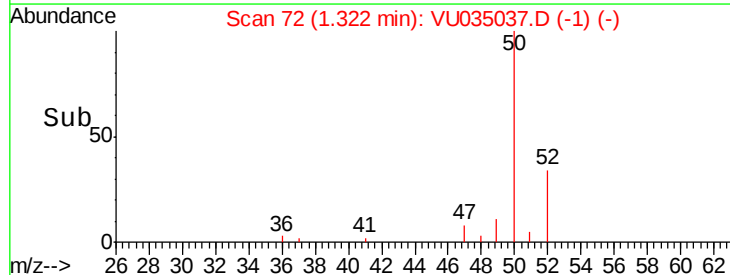
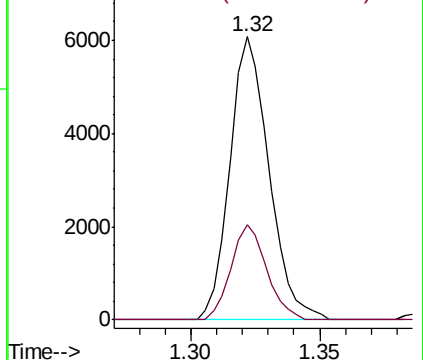
50 100

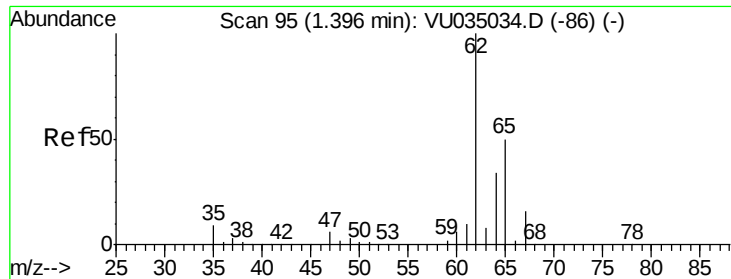
52 33.5 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU035037.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU035037.D (-1) (-)





#5

Vinyl chloride

Concen: 0.374 ug/L

RT: 1.40 min Scan# 95

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA\_U

ClientSampleId :

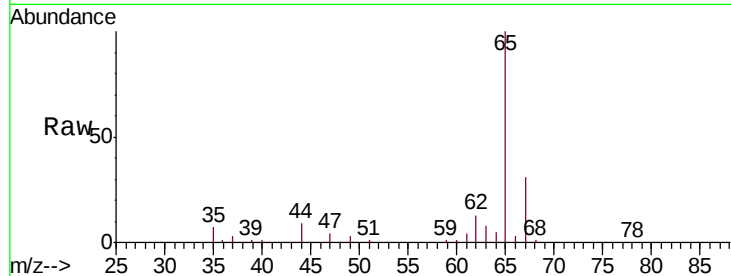
MDL02

Tgt Ion: 62 Resp: 6324

Ion Ratio Lower Upper

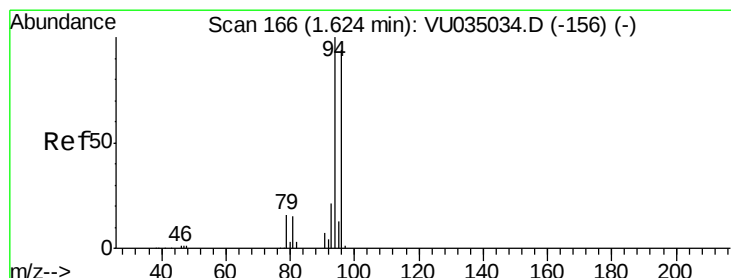
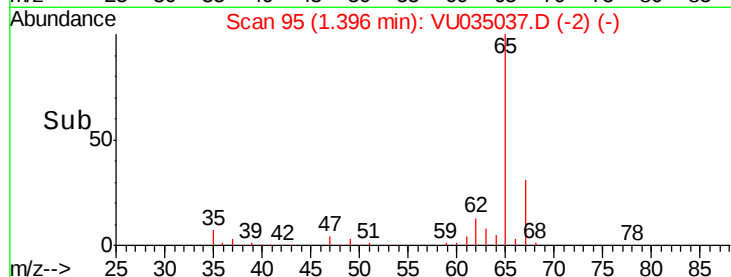
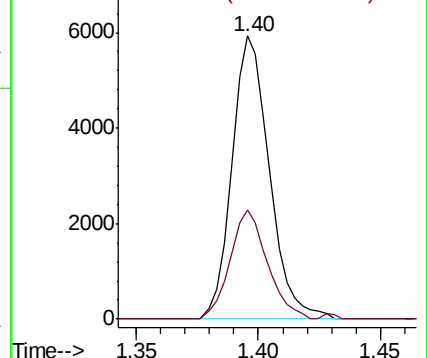
62 100

64 38.7 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0



#6

Bromomethane

Concen: 0.401 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035037.D

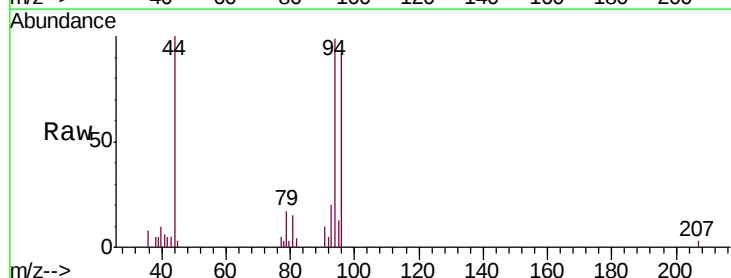
Acq: 10 Oct 2019 10:17

Tgt Ion: 94 Resp: 3770

Ion Ratio Lower Upper

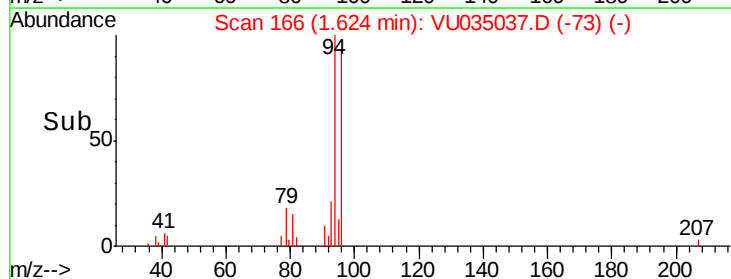
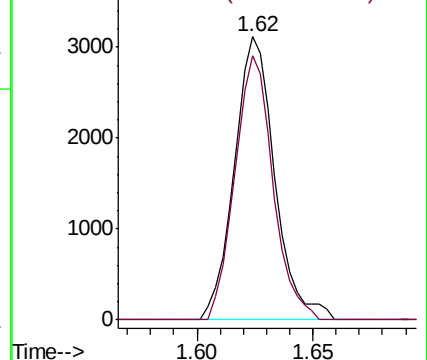
94 100

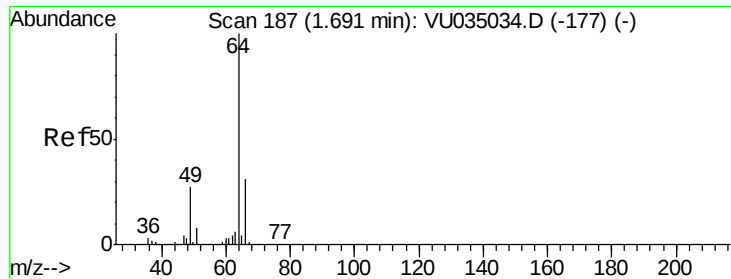
96 93.4 62.4 116.0



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 0.336 ug/L

RT: 1.69 min Scan# 187

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA\_U

ClientSampleId :

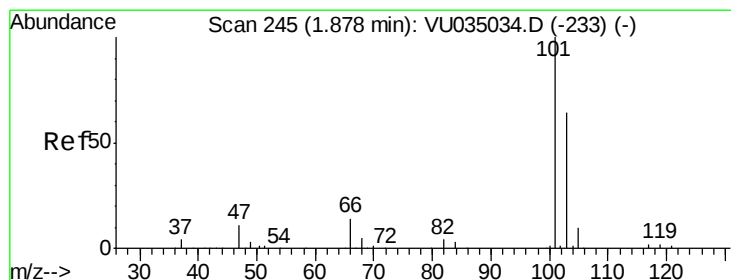
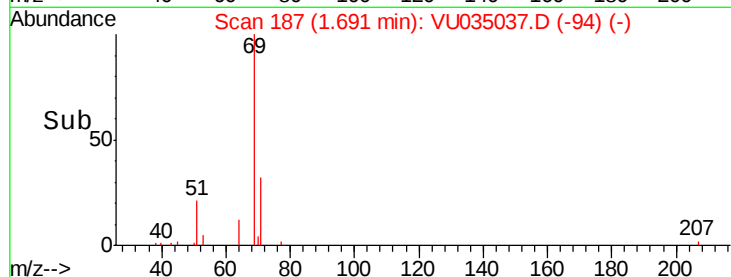
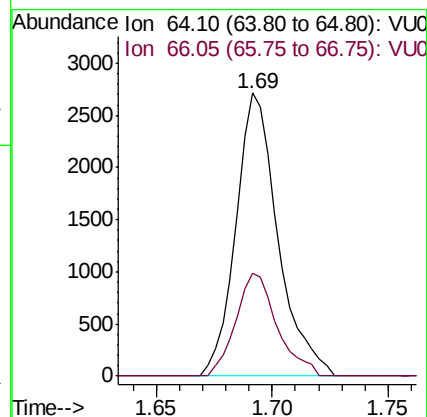
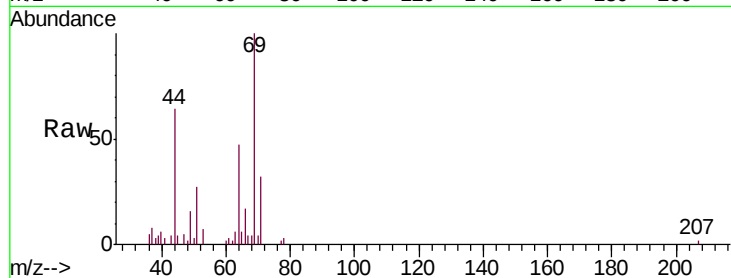
MDL02

Tgt Ion: 64 Resp: 3411

Ion Ratio Lower Upper

64 100

66 36.6 23.2 43.2



#9

Trichlorofluoromethane

Concen: 0.342 ug/L

RT: 1.88 min Scan# 245

Delta R.T. 0.00 min

Lab File: VU035037.D

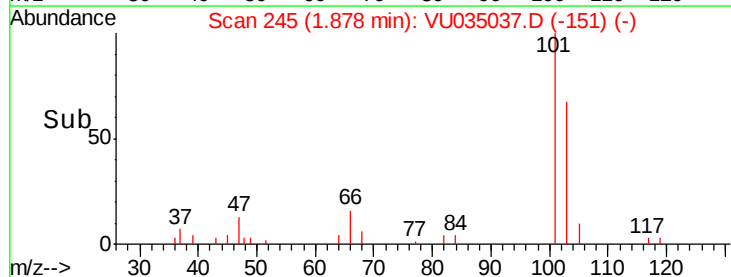
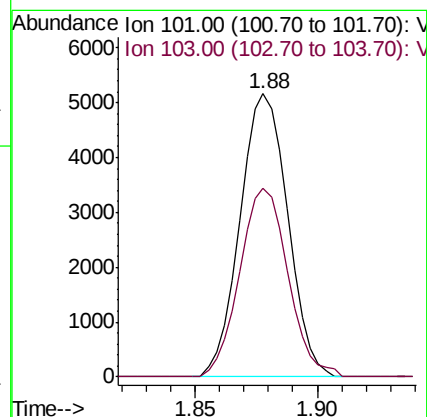
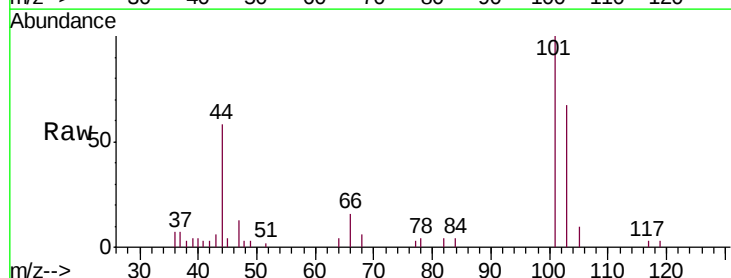
Acq: 10 Oct 2019 10:17

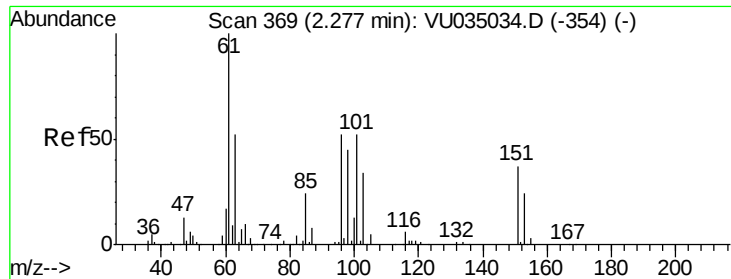
Tgt Ion: 101 Resp: 6996

Ion Ratio Lower Upper

101 100

103 67.5 52.2 78.4





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.389 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA\_U

ClientSampled :

MDL02

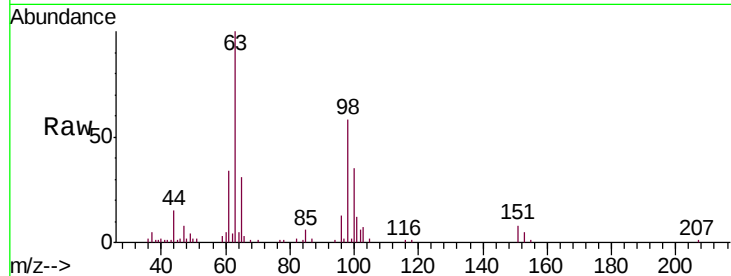
Tgt Ion:101 Resp: 4562

Ion Ratio Lower Upper

101 100

85 43.1 37.4 56.0

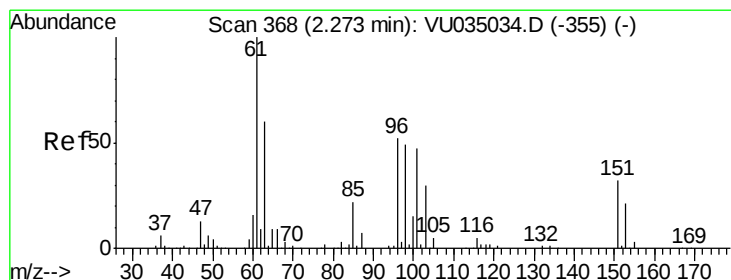
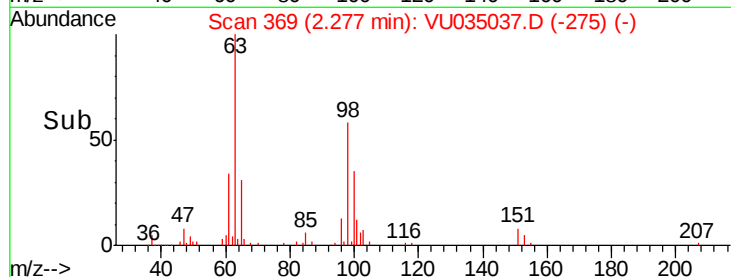
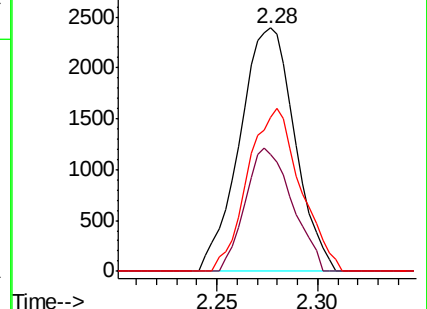
151 63.9 58.6 87.8



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.380 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

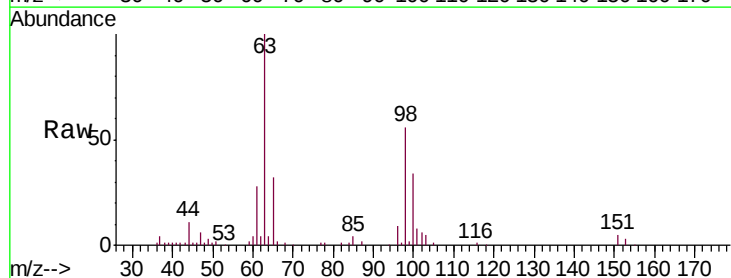
Tgt Ion: 96 Resp: 4194

Ion Ratio Lower Upper

96 100

61 298.3 129.3 240.1#

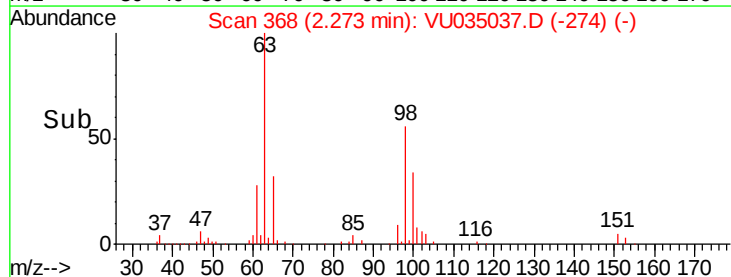
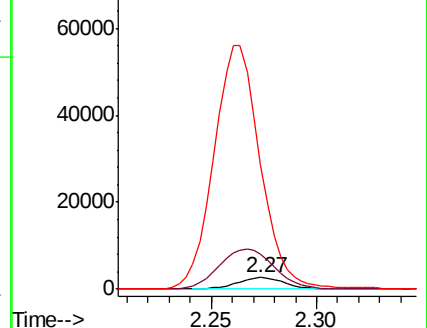
63 1077.3 108.9 202.3#

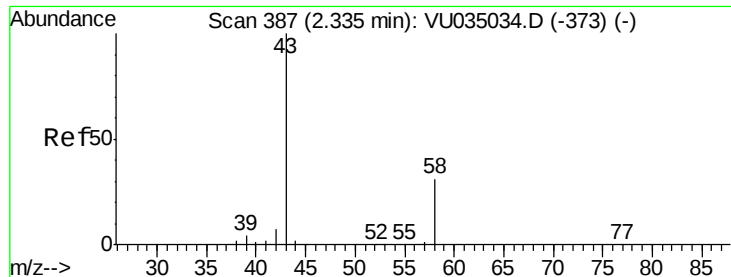


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 4.425 ug/L

RT: 2.34 min Scan# 388

Delta R.T. 0.01 min

Lab File: VU035037.D

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Instrument :

MSVOA\_U

ClientSampleId :

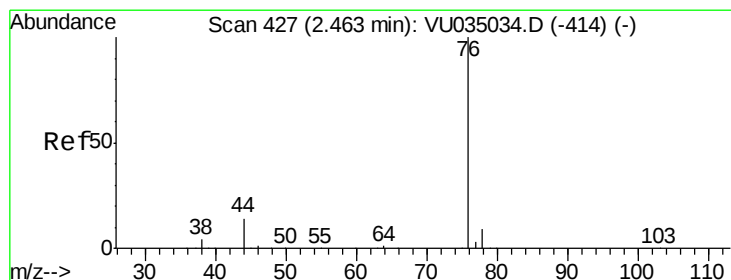
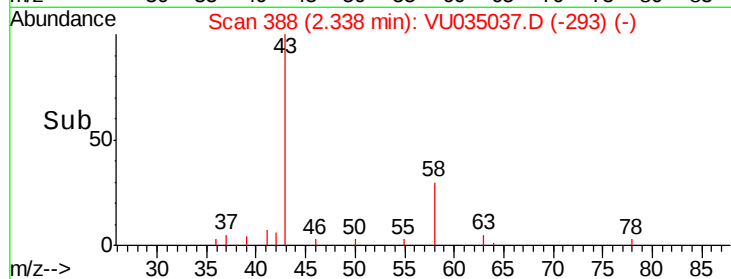
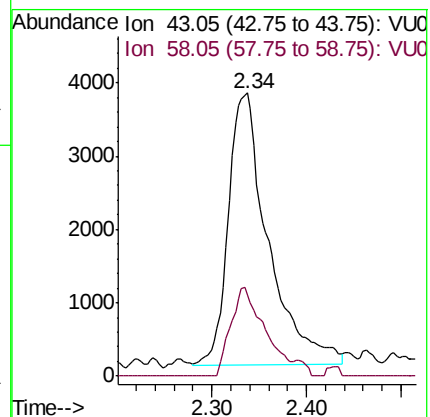
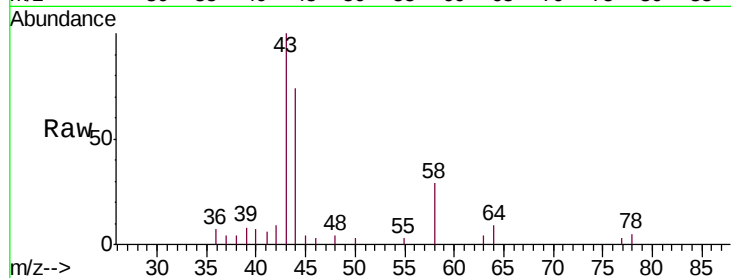
MDL02

Tgt Ion: 43 Resp: 10833

Ion Ratio Lower Upper

43 100

58 28.1 0.0 66.6



#14

Carbon disulfide

Concen: 0.328 ug/L

RT: 2.47 min Scan# 428

Delta R.T. 0.00 min

Lab File: VU035037.D

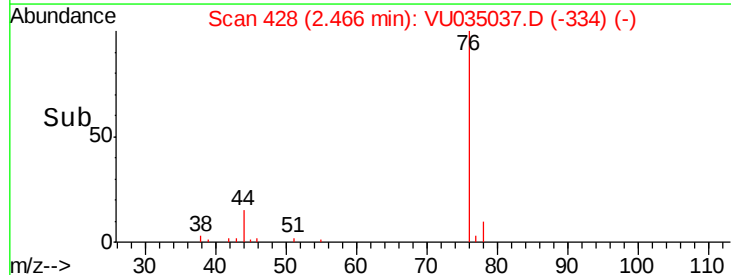
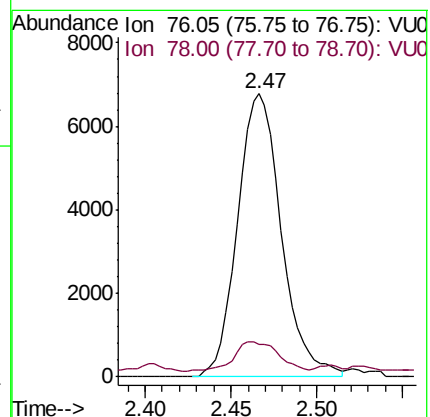
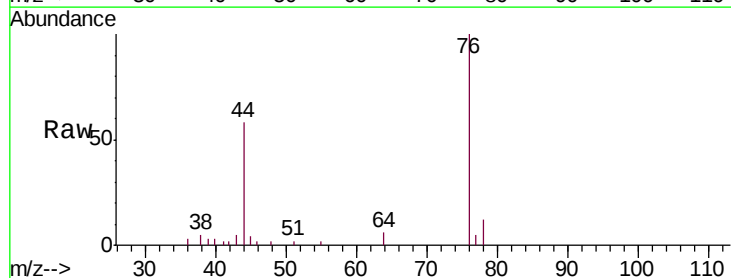
Acq: 10 Oct 2019 10:17

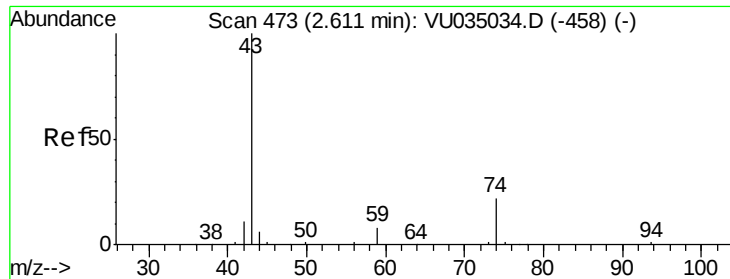
Tgt Ion: 76 Resp: 12034

Ion Ratio Lower Upper

76 100

78 11.7 7.1 10.7#

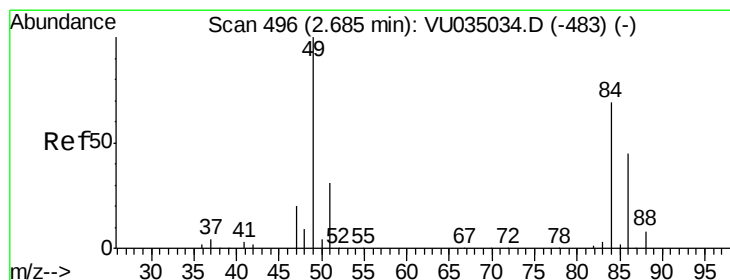
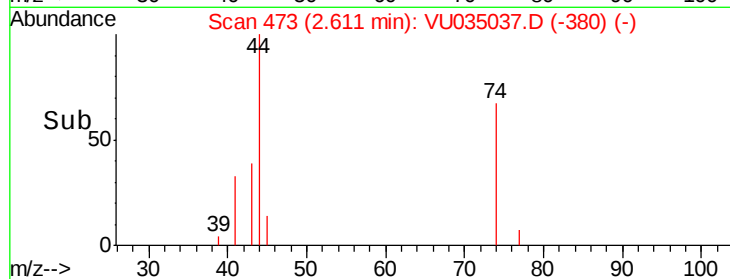
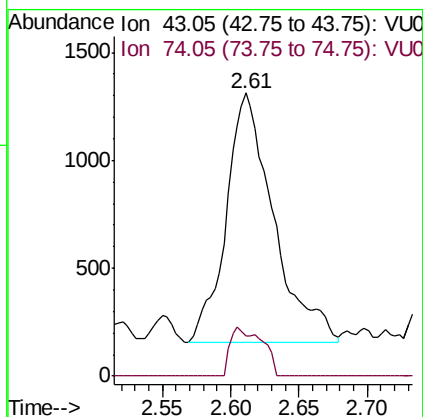
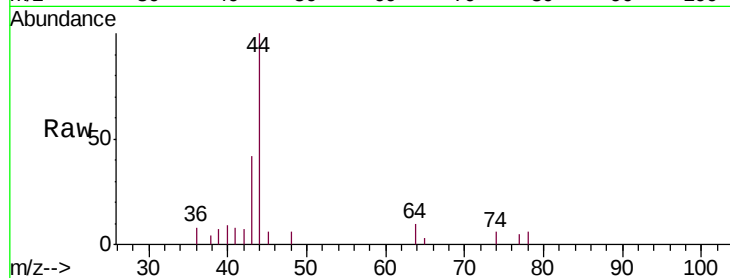




#15  
Methyl Acetate  
Concen: 0.432 ug/L  
RT: 2.61 min Scan# 473  
Delta R.T. 0.00 min  
Lab File: VU035037.D  
Acq: 10 Oct 2019 10:17

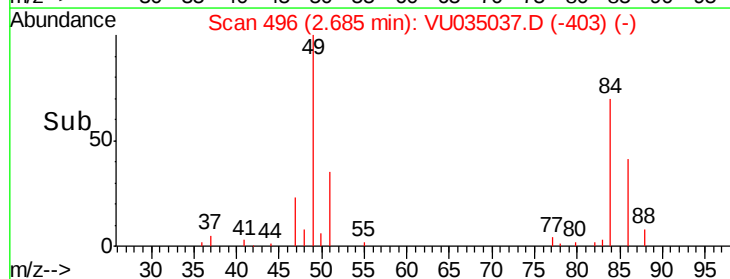
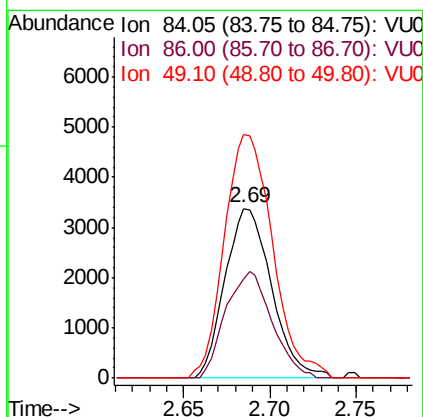
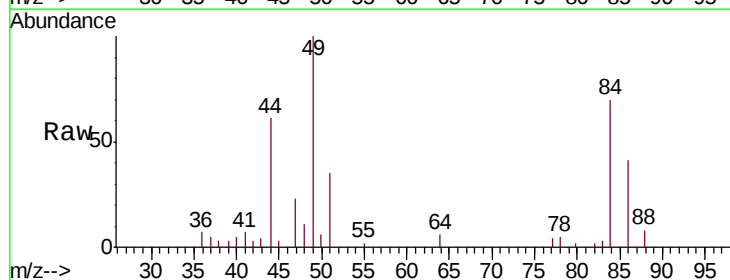
Instrument :  
MSVOA\_U  
ClientSampled :  
MDL02

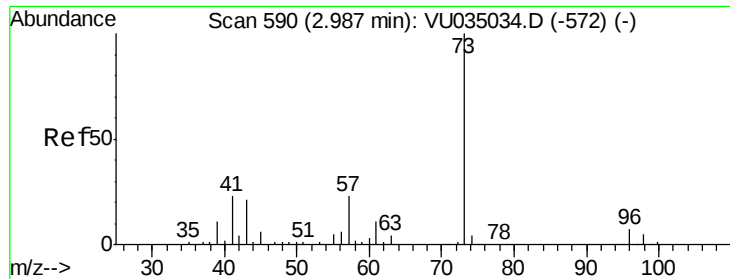
Tgt Ion: 43 Resp: 2812  
Ion Ratio Lower Upper  
43 100  
74 13.1 17.8 26.8#



#16  
Methylene chloride  
Concen: 0.466 ug/L  
RT: 2.69 min Scan# 496  
Delta R.T. 0.00 min  
Lab File: VU035037.D  
Acq: 10 Oct 2019 10:17

Tgt Ion: 84 Resp: 6368  
Ion Ratio Lower Upper  
84 100  
86 58.3 42.5 78.9  
49 143.5 86.9 161.3

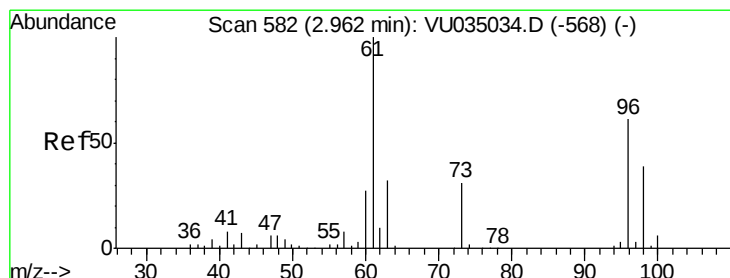
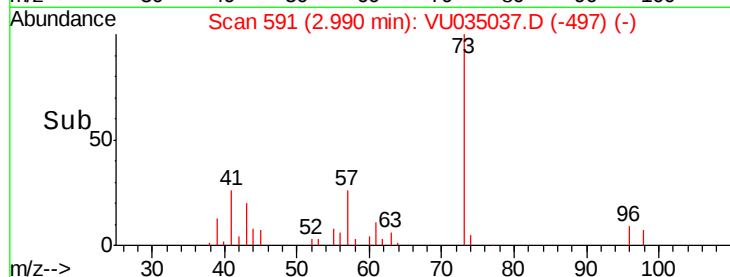
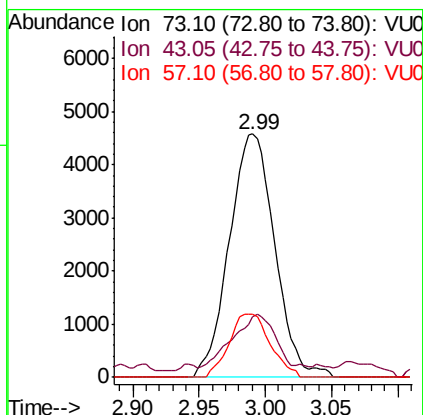
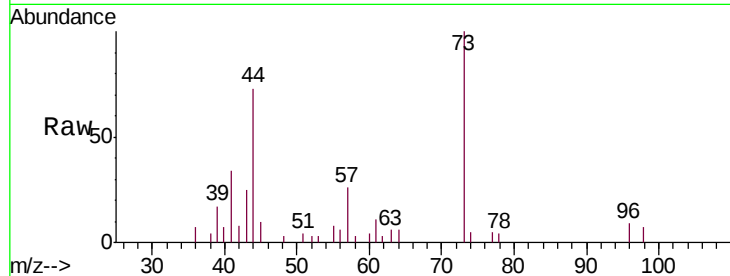




#17  
Methyl tert-butyl Ether  
Concen: 0.363 ug/L  
RT: 2.99 min Scan# 591  
Delta R.T. 0.00 min  
Lab File: VU035037.D  
Acq: 10 Oct 2019 10:17

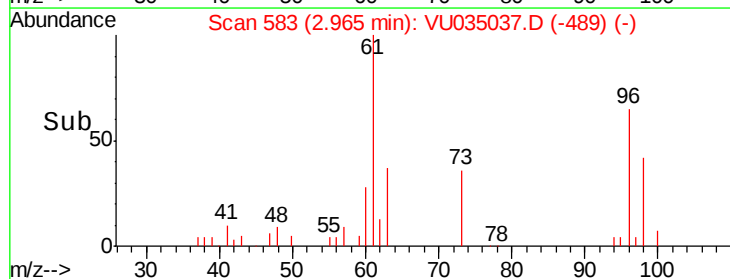
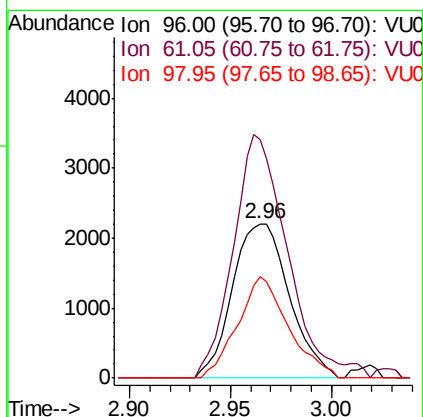
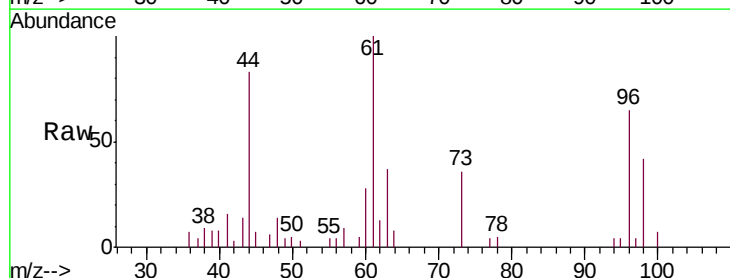
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL02

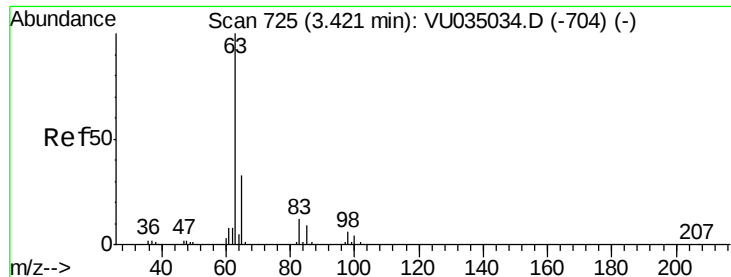
Tgt Ion: 73 Resp: 10910  
Ion Ratio Lower Upper  
73 100  
43 19.8 16.3 24.5  
57 23.5 18.6 28.0



#18  
trans-1,2-Dichloroethene  
Concen: 0.369 ug/L  
RT: 2.96 min Scan# 583  
Delta R.T. 0.00 min  
Lab File: VU035037.D  
Acq: 10 Oct 2019 10:17

Tgt Ion: 96 Resp: 4360  
Ion Ratio Lower Upper  
96 100  
61 153.9 107.1 198.9  
98 65.3 45.4 84.4





#19

1,1-Dichloroethane

Concen: 0.352 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.01 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA\_U

ClientSampleId :

MDL02

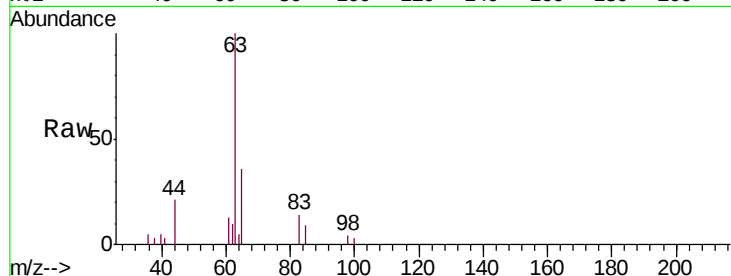
Tgt Ion: 63 Resp: 8273

Ion Ratio Lower Upper

63 100

65 36.0 21.7 40.3

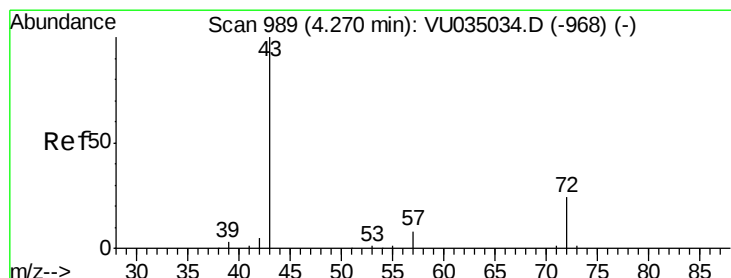
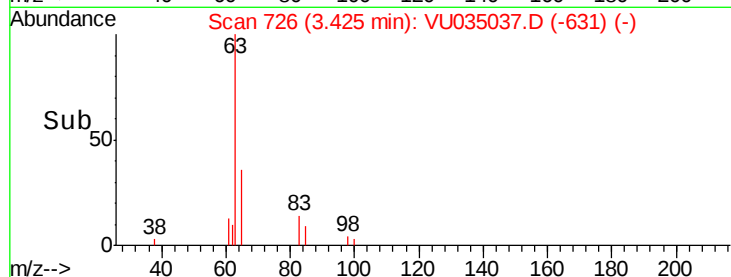
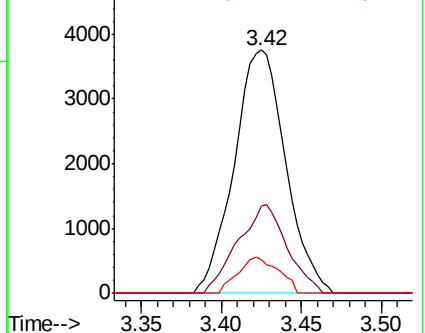
83 13.6 9.0 16.8



Abundance Ion 63.10 (62.80 to 63.80): VU035037.D (-631) (-)

Ion 65.10 (64.80 to 65.80): VU035037.D (-631) (-)

Ion 83.05 (82.75 to 83.75): VU035037.D (-631) (-)



#21

2-Butanone

Concen: 3.193 ug/L

RT: 4.29 min Scan# 994

Delta R.T. 0.02 min

Lab File: VU035037.D

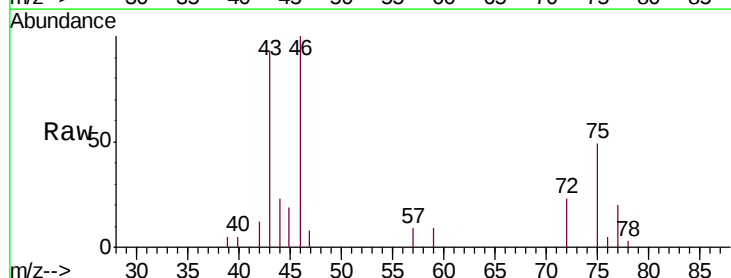
Acq: 10 Oct 2019 10:17

Tgt Ion: 43 Resp: 11133

Ion Ratio Lower Upper

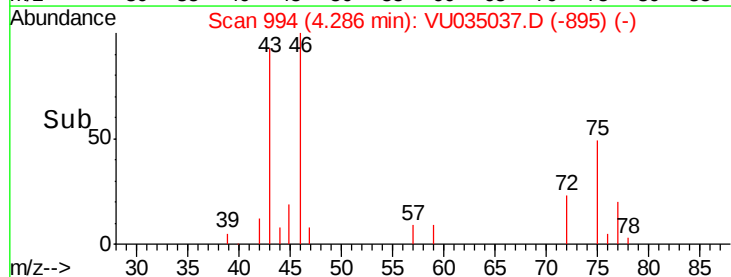
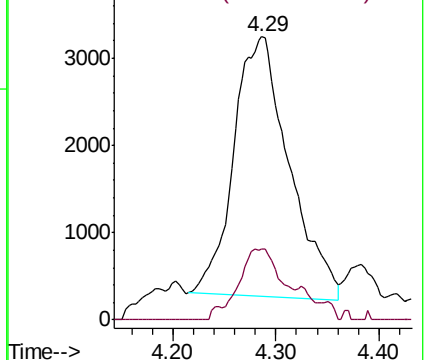
43 100

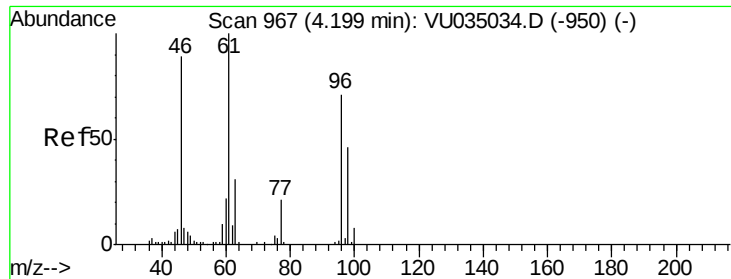
72 21.1 13.5 40.4



Abundance Ion 43.05 (42.75 to 43.75): VU035037.D (-895) (-)

Ion 72.10 (71.80 to 72.80): VU035037.D (-895) (-)



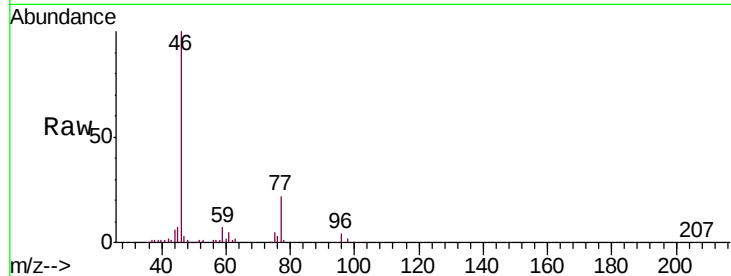


#22

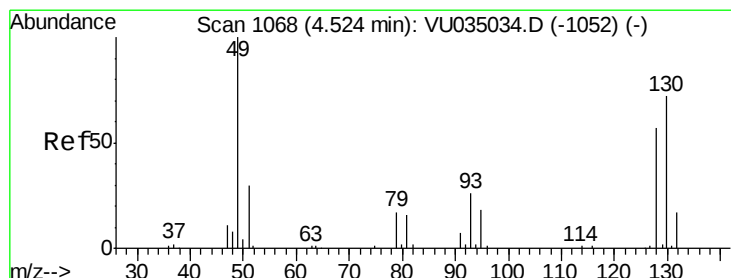
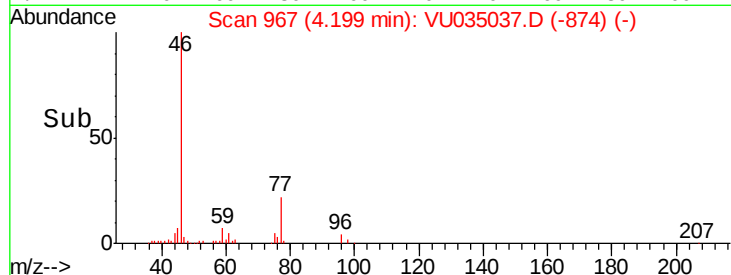
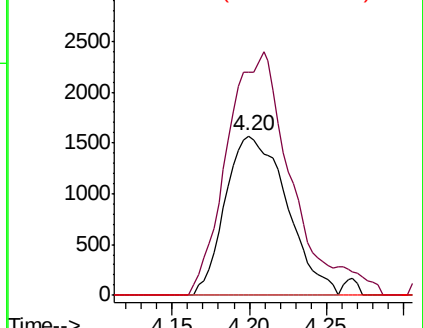
cis-1,2-Dichloroethene  
 Concen: 0.329 ug/L  
 RT: 4.20 min Scan# 967  
 Delta R.T. 0.00 min  
 Lab File: VU035037.D  
 Acq: 10 Oct 2019 10:17

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL02

Tgt Ion: 96 Resp: 4333  
 Ion Ratio Lower Upper  
 96 100  
 61 139.9 89.2 165.6  
 68 0.0 0.0 0.0



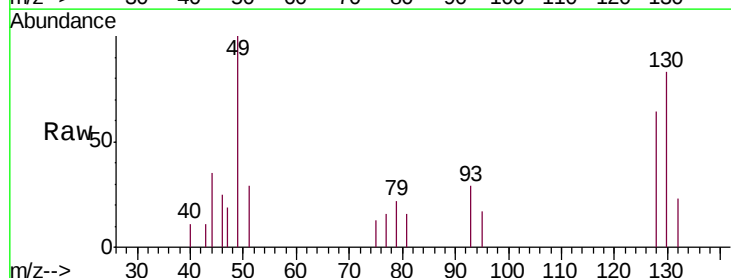
Abundance Ion 96.00 (95.70 to 96.70): VU0  
 Ion 61.05 (60.75 to 61.75): VU0  
 Ion 68.15 (67.85 to 68.85): VU0



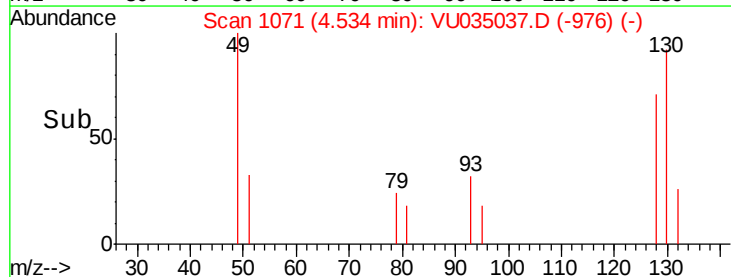
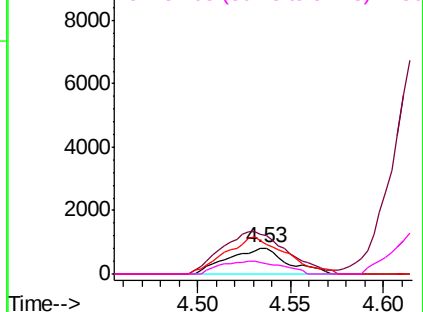
#23

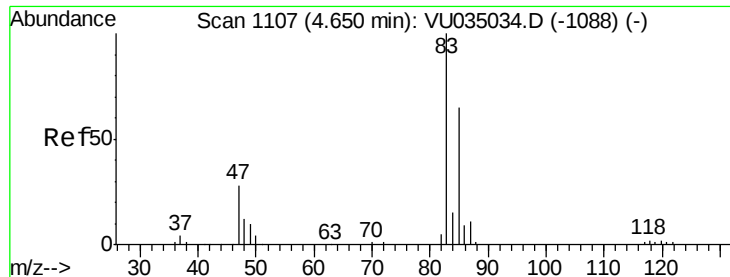
Bromochloromethane  
 Concen: 0.328 ug/L  
 RT: 4.53 min Scan# 1071  
 Delta R.T. 0.01 min  
 Lab File: VU035037.D  
 Acq: 10 Oct 2019 10:17

Tgt Ion: 128 Resp: 1813  
 Ion Ratio Lower Upper  
 128 100  
 49 156.3 110.5 205.3  
 130 129.6 88.6 164.6  
 51 46.0 43.2 64.8



Abundance Ion 127.90 (127.60 to 128.60): V  
 Ion 49.10 (48.80 to 49.80): VU0  
 Ion 129.95 (129.65 to 130.65): V  
 Ion 51.05 (50.75 to 51.75): VU0

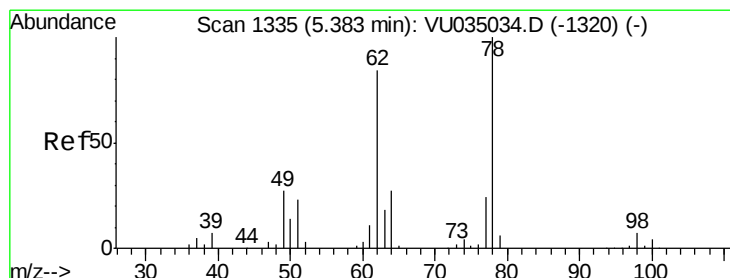
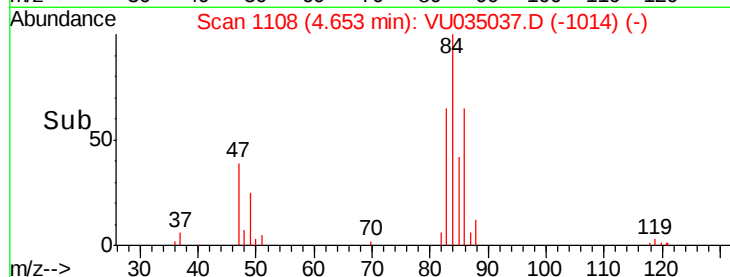
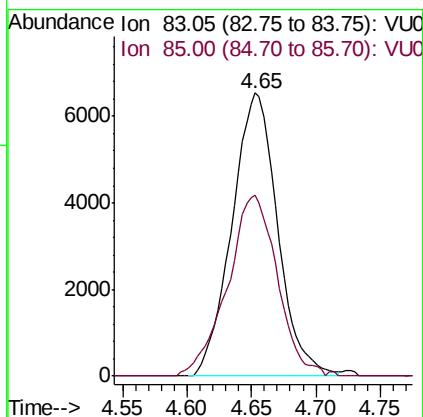
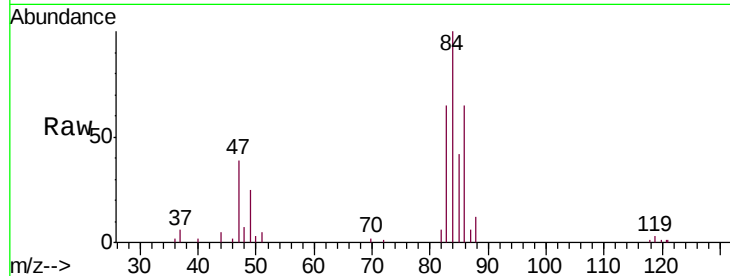




#25  
Chloroform  
Concen: 0.612 ug/L  
RT: 4.65 min Scan# 1108  
Delta R.T. 0.00 min  
Lab File: VU035037.D  
Acq: 10 Oct 2019 10:17

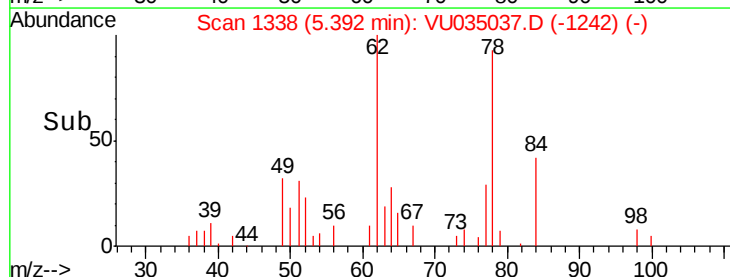
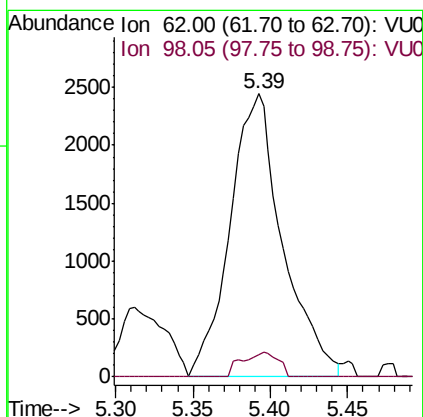
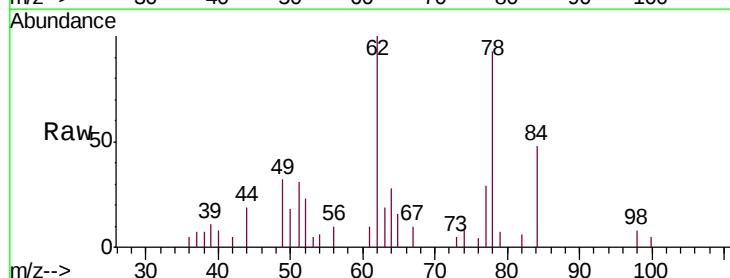
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL02

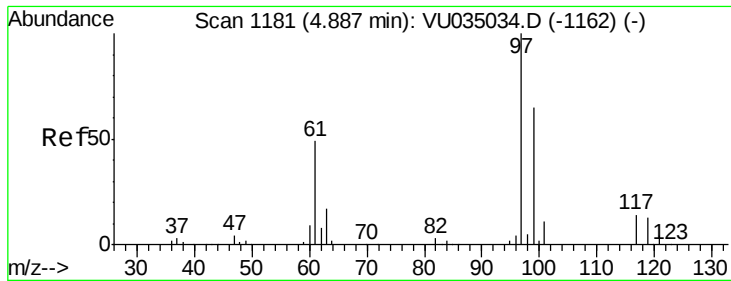
Tgt Ion: 83 Resp: 16136  
Ion Ratio Lower Upper  
83 100  
85 63.8 45.4 84.4



#27  
1,2-Dichloroethane  
Concen: 0.376 ug/L  
RT: 5.39 min Scan# 1338  
Delta R.T. 0.01 min  
Lab File: VU035037.D  
Acq: 10 Oct 2019 10:17

Tgt Ion: 62 Resp: 5790  
Ion Ratio Lower Upper  
62 100  
98 8.0 6.6 10.0

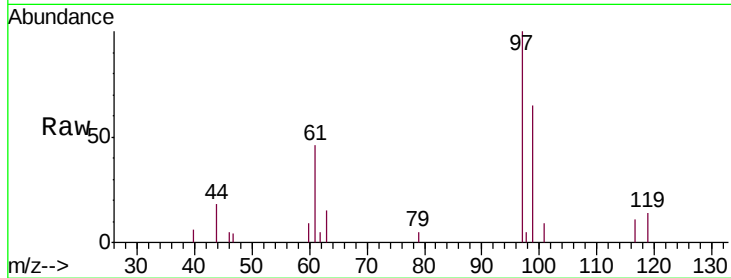




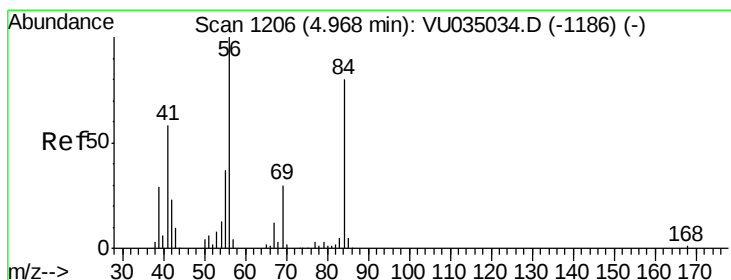
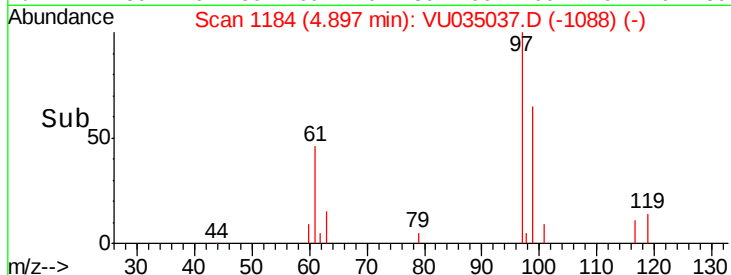
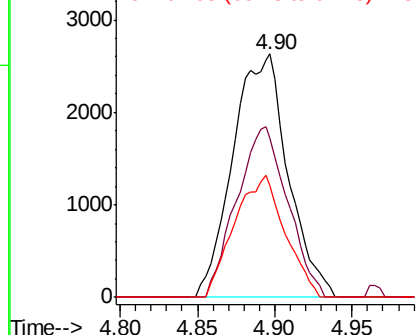
#29  
 1,1,1-Trichloroethane  
 Concen: 0.335 ug/L  
 RT: 4.90 min Scan# 1184  
 Delta R.T. 0.01 min  
 Lab File: VU035037.D  
 Acq: 10 Oct 2019 10:17

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 MDL02

Tgt Ion: 97 Resp: 6515  
 Ion Ratio Lower Upper  
 97 100  
 99 64.7 51.6 77.4  
 61 46.1 36.2 54.4

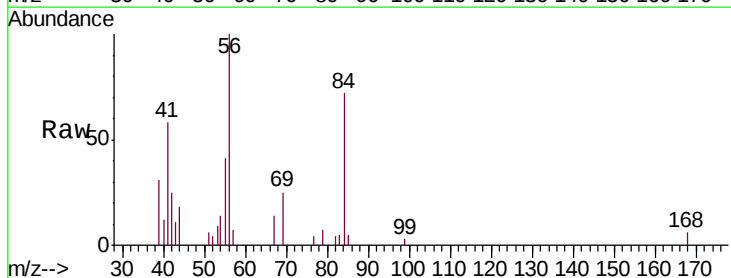


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 61.05 (60.75 to 61.75): VU0

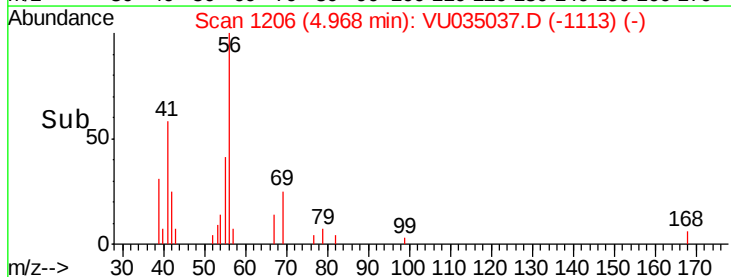
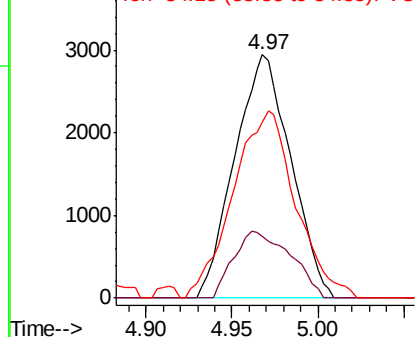


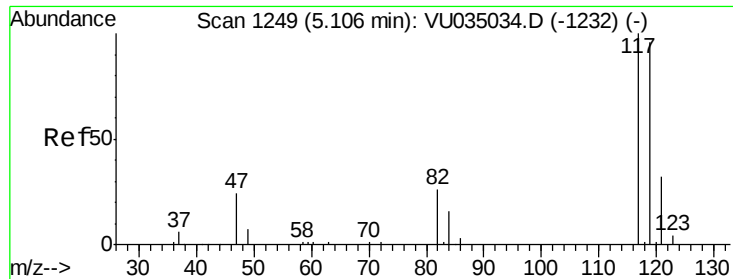
#30  
 Cyclohexane  
 Concen: 0.312 ug/L  
 RT: 4.97 min Scan# 1206  
 Delta R.T. 0.00 min  
 Lab File: VU035037.D  
 Acq: 10 Oct 2019 10:17

Tgt Ion: 56 Resp: 6669  
 Ion Ratio Lower Upper  
 56 100  
 69 27.8 23.9 35.9  
 84 85.7 69.5 104.3



Abundance Ion 56.10 (55.80 to 56.80): VU0  
 Ion 69.15 (68.85 to 69.85): VU0  
 Ion 84.15 (83.85 to 84.85): VU0





#31

Carbon tetrachloride

Concen: 0.315 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA\_U

ClientSampleId :

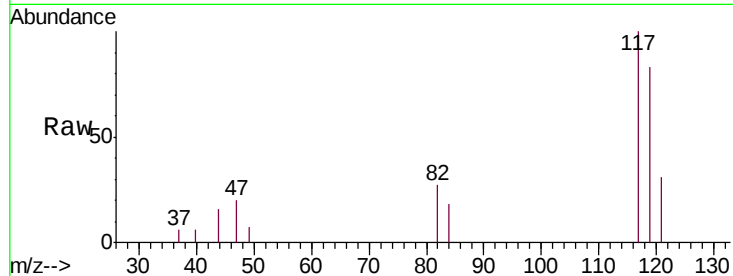
MDL02

Tgt Ion:117 Resp: 5305

Ion Ratio Lower Upper

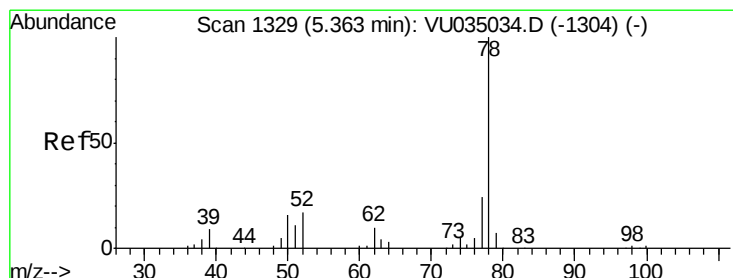
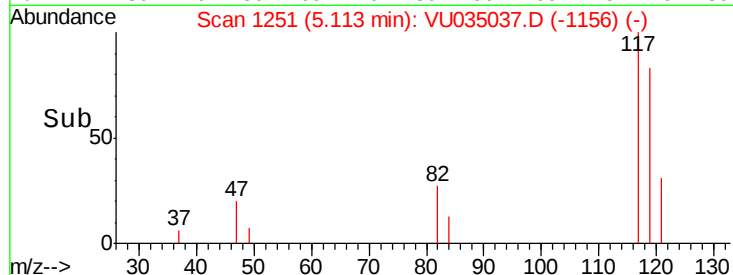
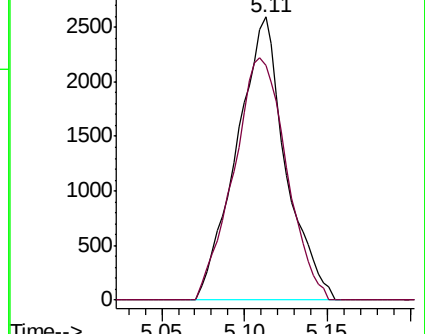
117 100

119 92.8 77.5 116.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.328 ug/L

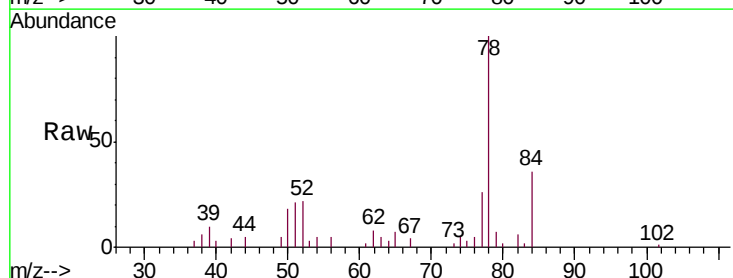
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

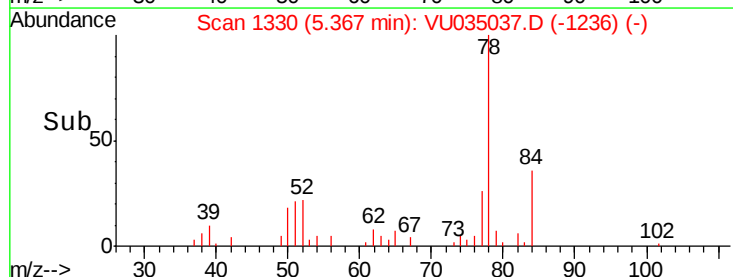
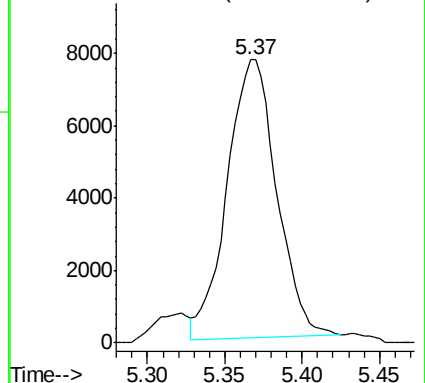
Lab File: VU035037.D

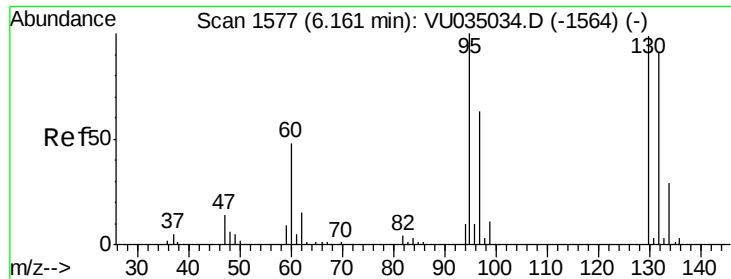
Acq: 10 Oct 2019 10:17

Tgt Ion: 78 Resp: 17120



Abundance Ion 78.10 (77.80 to 78.80): VU0

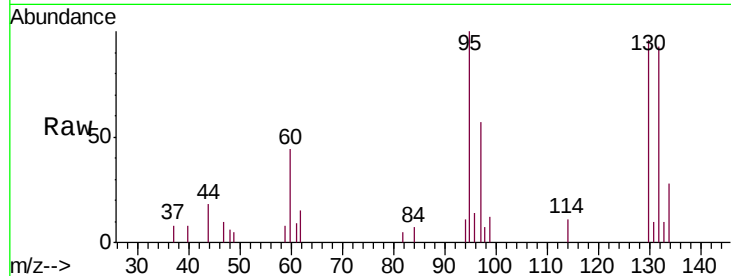




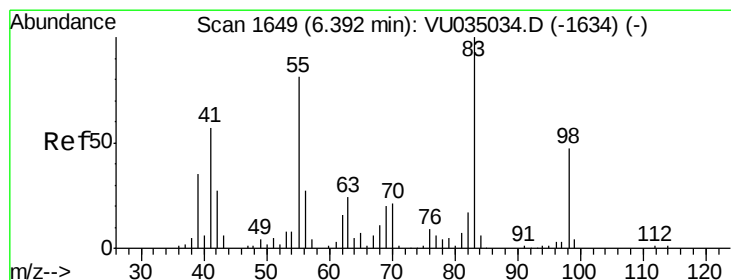
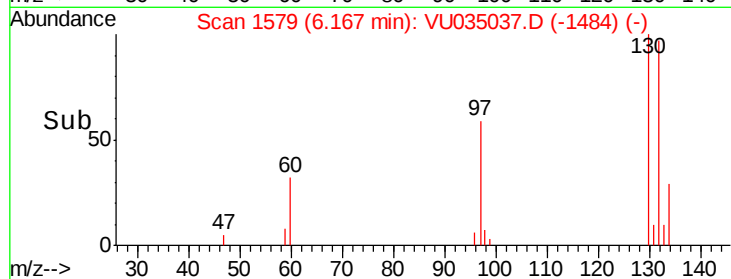
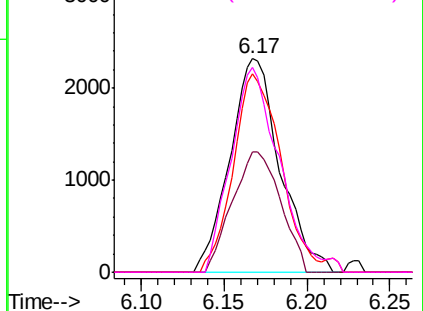
#34  
 Trichloroethene  
 Concen: 0.362 ug/L  
 RT: 6.17 min Scan# 1579  
 Delta R.T. 0.01 min  
 Lab File: VU035037.D  
 Acq: 10 Oct 2019 10:17

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL02

Tgt Ion: 95 Resp: 4870  
 Ion Ratio Lower Upper  
 95 100  
 97 56.5 44.5 82.7  
 132 93.2 66.6 123.8  
 130 95.9 68.9 127.9

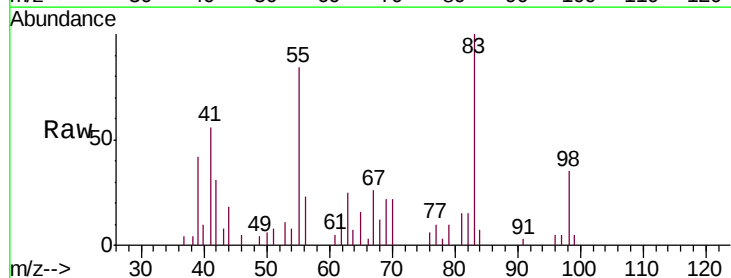


Abundance Ion 95.00 (94.70 to 95.70): VU0  
 Ion 96.95 (96.65 to 97.65): VU0  
 Ion 131.95 (131.65 to 132.65): V  
 Ion 129.95 (129.65 to 130.65): V

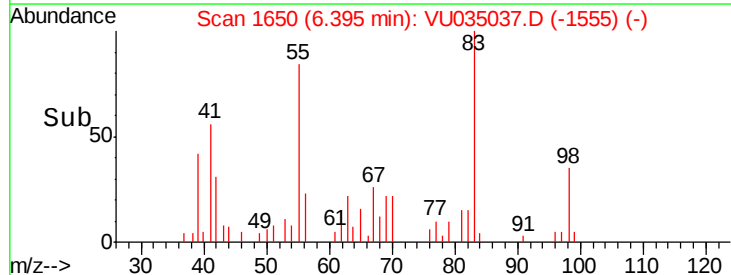
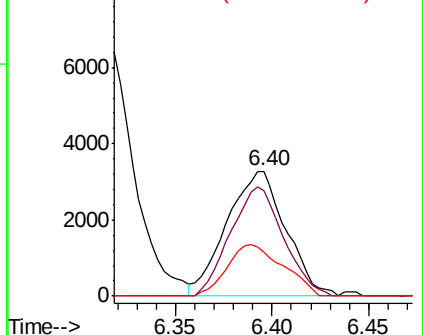


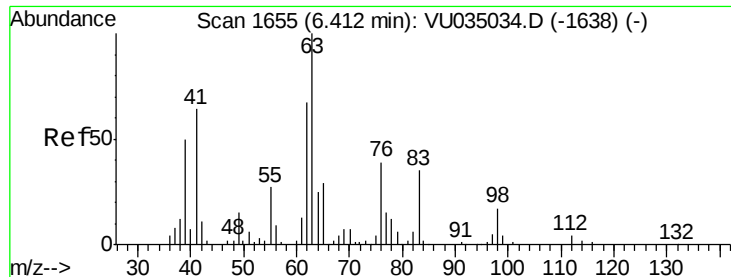
#35  
 Methylcyclohexane  
 Concen: 0.319 ug/L  
 RT: 6.40 min Scan# 1650  
 Delta R.T. 0.01 min  
 Lab File: VU035037.D  
 Acq: 10 Oct 2019 10:17

Tgt Ion: 83 Resp: 6961  
 Ion Ratio Lower Upper  
 83 100  
 55 78.6 62.6 94.0  
 98 39.1 36.2 54.2



Abundance Ion 83.15 (82.85 to 83.85): VU0  
 Ion 55.10 (54.80 to 55.80): VU0  
 Ion 98.15 (97.85 to 98.85): VU0

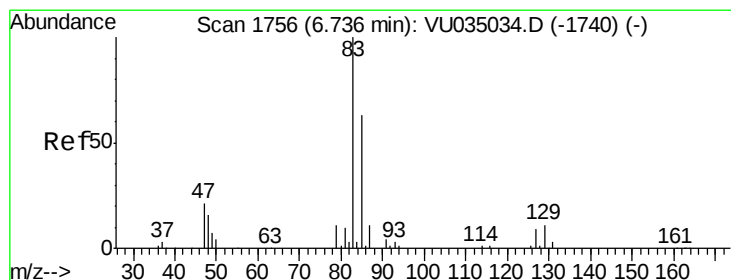
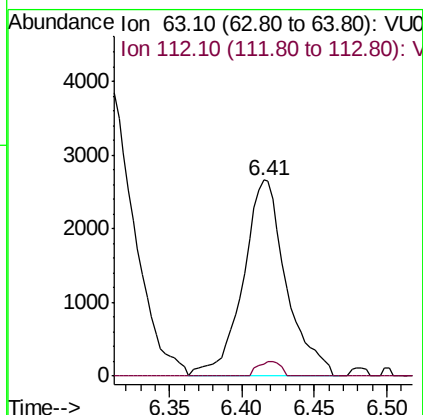
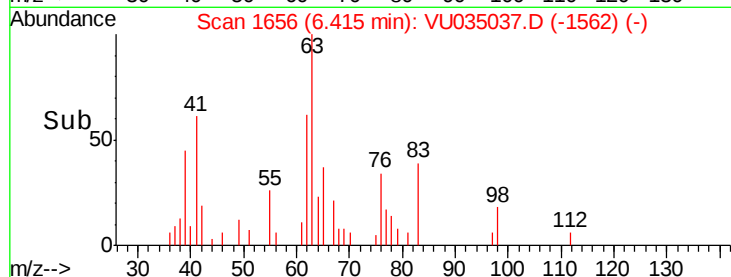
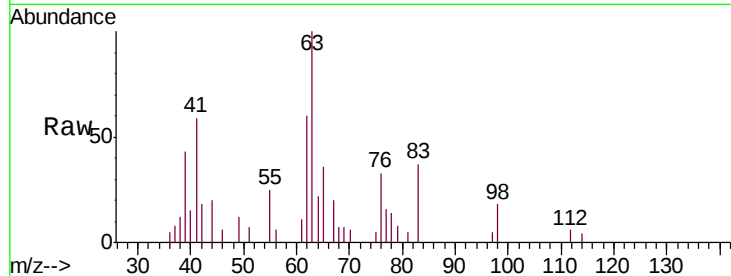




#37  
 1,2-Dichloropropane  
 Concen: 0.392 ug/L  
 RT: 6.41 min Scan# 1656  
 Delta R.T. 0.00 min  
 Lab File: VU035037.D  
 Acq: 10 Oct 2019 10:17

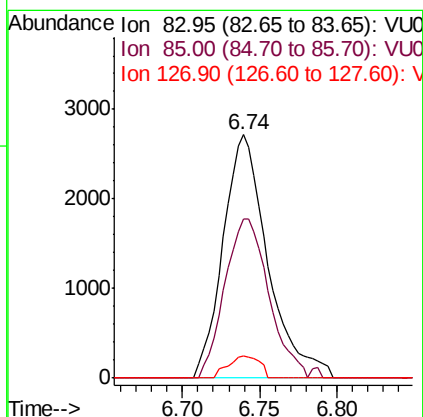
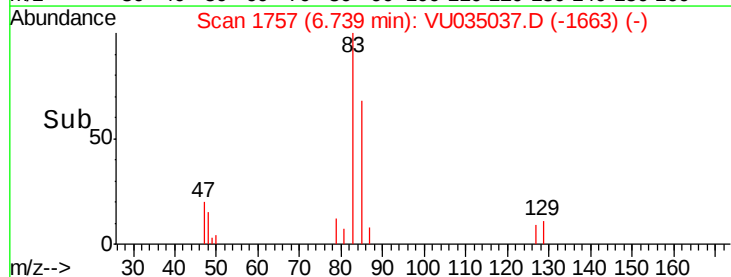
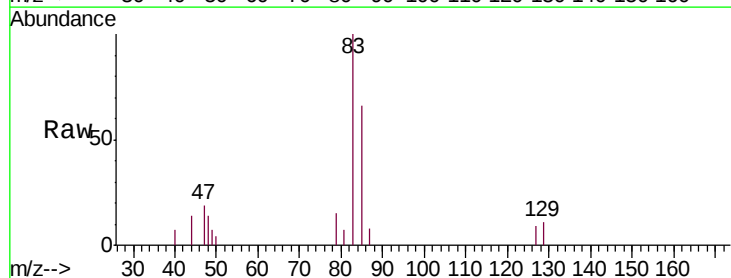
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL02

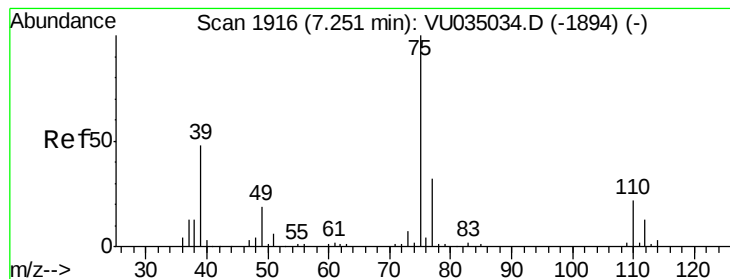
Tgt Ion: 63 Resp: 5523  
 Ion Ratio Lower Upper  
 63 100  
 112 3.9 3.1 4.7



#38  
 Bromodichloromethane  
 Concen: 0.330 ug/L  
 RT: 6.74 min Scan# 1757  
 Delta R.T. 0.00 min  
 Lab File: VU035037.D  
 Acq: 10 Oct 2019 10:17

Tgt Ion: 83 Resp: 5444  
 Ion Ratio Lower Upper  
 83 100  
 85 65.6 44.0 81.8  
 127 8.9 7.0 10.4



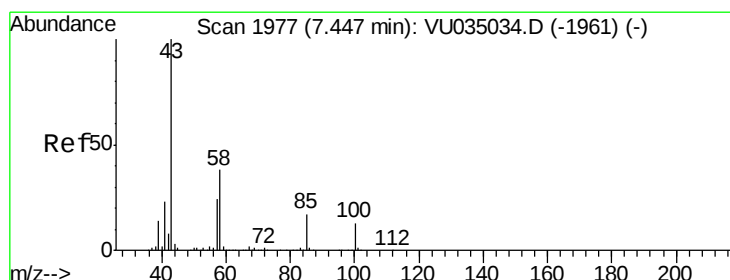
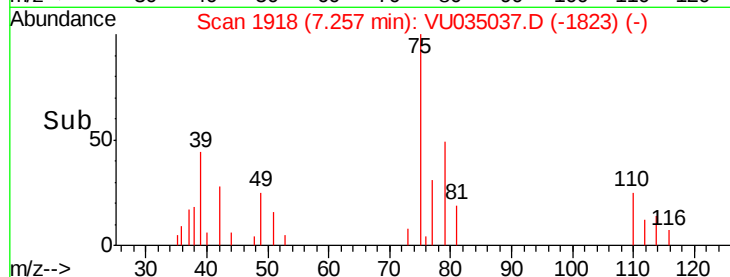
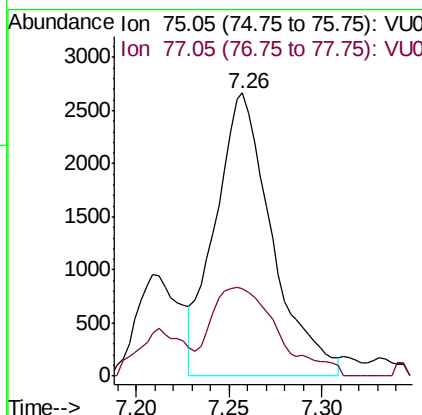
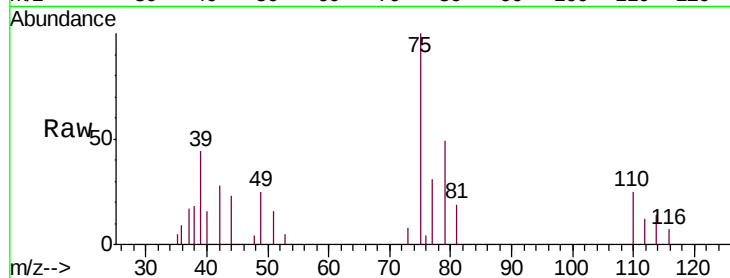


#39

cis-1,3-Dichloropropene  
Concen: 0.297 ug/L  
RT: 7.26 min Scan# 1918  
Delta R.T. 0.01 min  
Lab File: VU035037.D  
Acq: 10 Oct 2019 10:17

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL02

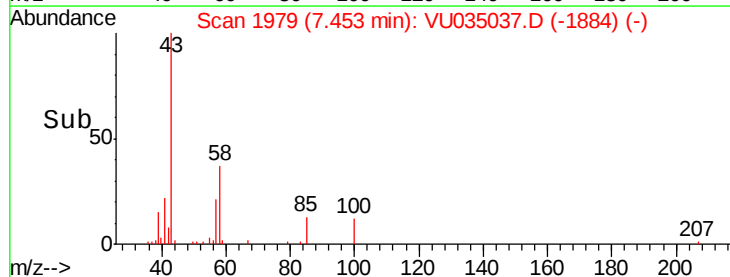
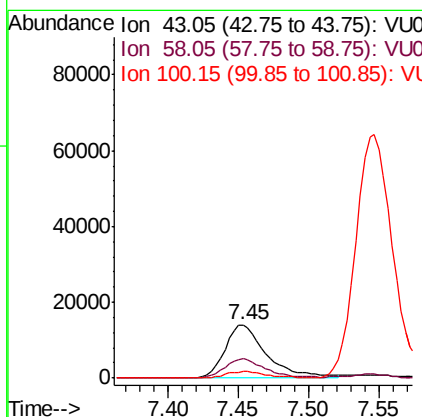
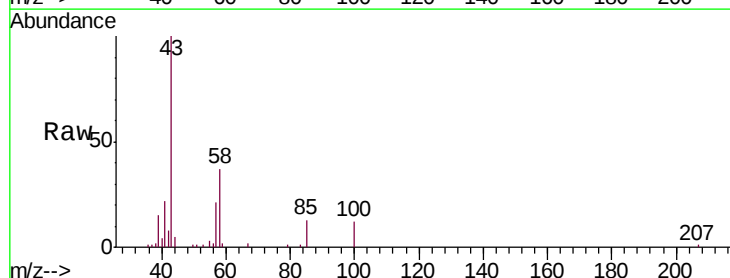
Tgt Ion: 75 Resp: 5669  
Ion Ratio Lower Upper  
75 100  
77 30.8 22.1 41.1

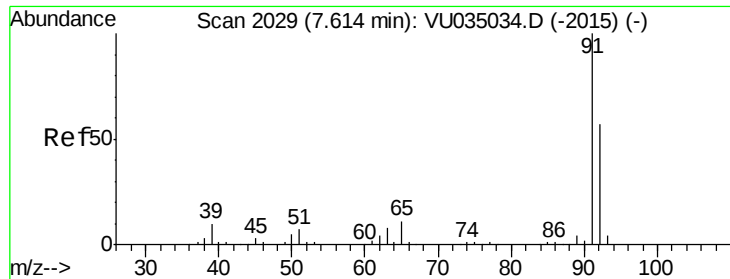


#40

4-Methyl-2-pentanone  
Concen: 3.278 ug/L  
RT: 7.45 min Scan# 1979  
Delta R.T. 0.01 min  
Lab File: VU035037.D  
Acq: 10 Oct 2019 10:17

Tgt Ion: 43 Resp: 29034  
Ion Ratio Lower Upper  
43 100  
58 35.9 32.4 48.6  
100 12.4 11.9 17.9





#42

Toluene

Concen: 0.336 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA\_U

ClientSampled :

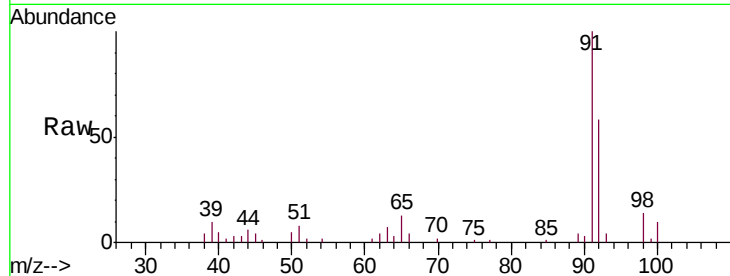
MDL02

Tgt Ion: 91 Resp: 18307

Ion Ratio Lower Upper

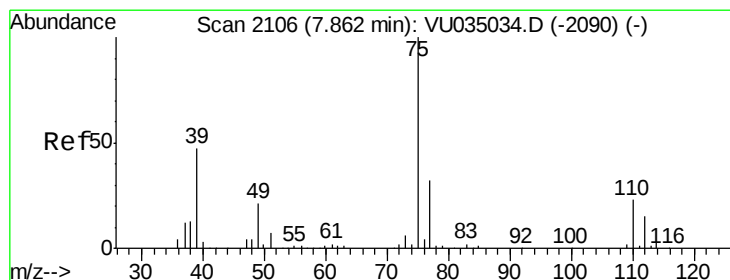
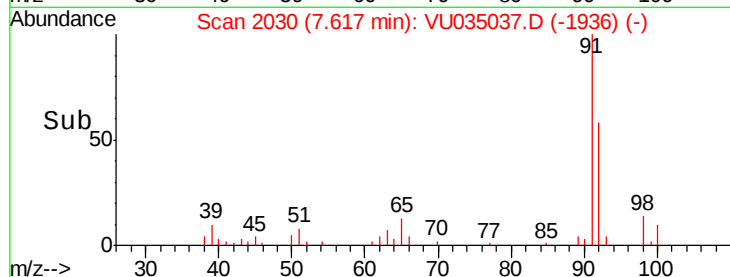
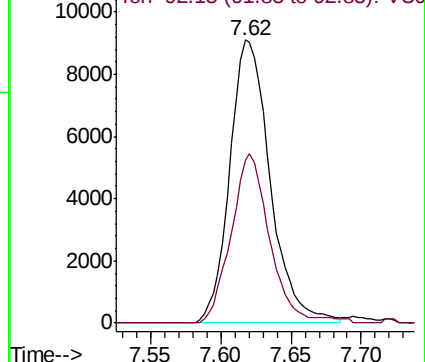
91 100

92 57.7 40.0 74.2



Abundance Ion 91.15 (90.85 to 91.85): VU035037.D (-2030) (-)

Ion 92.15 (91.85 to 92.85): VU035037.D (-2030) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.339 ug/L

RT: 7.87 min Scan# 2109

Delta R.T. 0.01 min

Lab File: VU035037.D

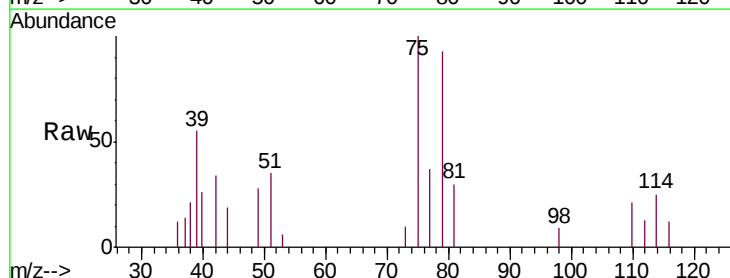
Acq: 10 Oct 2019 10:17

Tgt Ion: 75 Resp: 5003

Ion Ratio Lower Upper

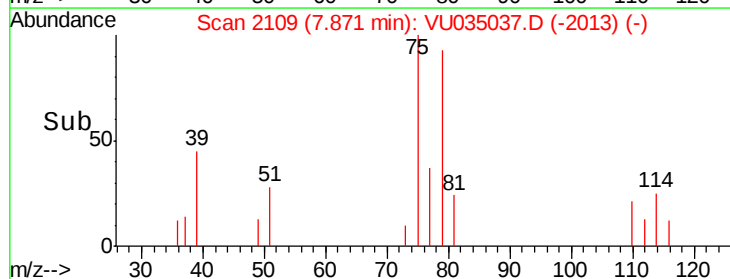
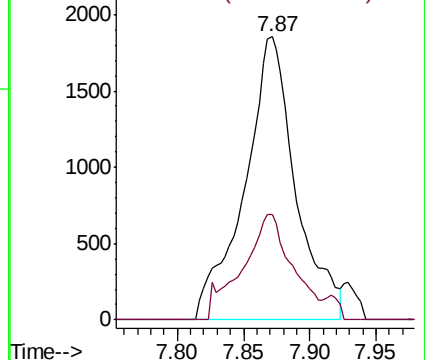
75 100

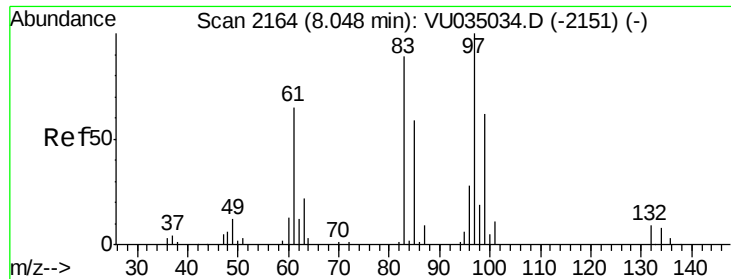
77 37.2 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VU035037.D (-2109) (-)

Ion 77.05 (76.75 to 77.75): VU035037.D (-2109) (-)

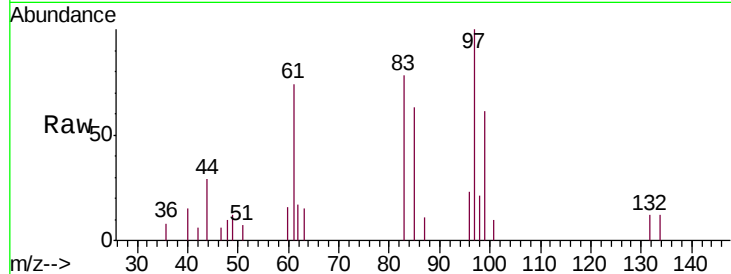




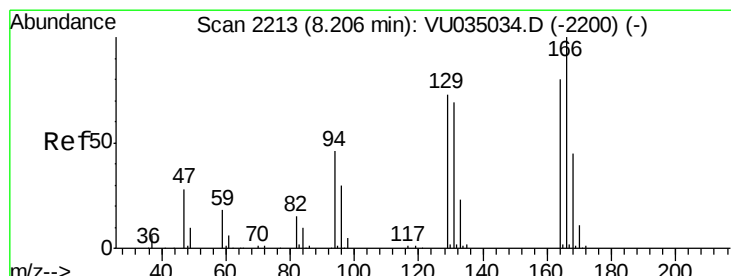
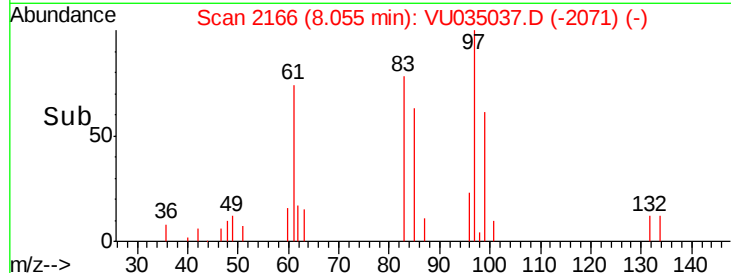
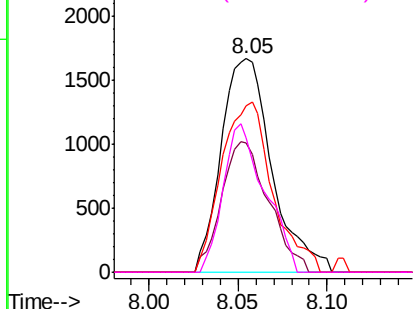
#45  
 1,1,2-Trichloroethane  
 Concen: 0.354 ug/L  
 RT: 8.05 min Scan# 2166  
 Delta R.T. 0.01 min  
 Lab File: VU035037.D  
 Acq: 10 Oct 2019 10:17

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL02

Tgt Ion: 97 Resp: 3308  
 Ion Ratio Lower Upper  
 97 100  
 99 60.6 42.3 78.5  
 83 77.9 58.0 107.6  
 85 62.7 37.8 70.2

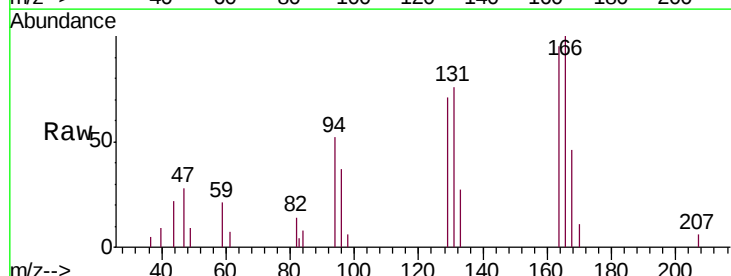


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 82.95 (82.65 to 83.65): VU0  
 Ion 85.00 (84.70 to 85.70): VU0

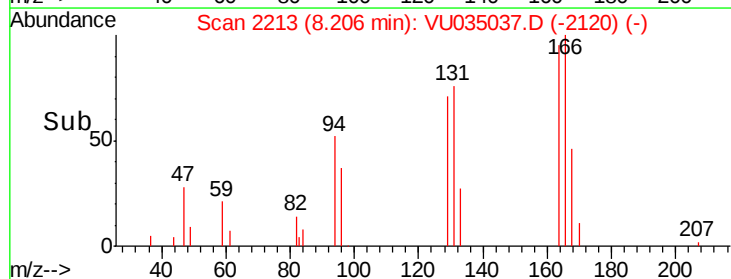
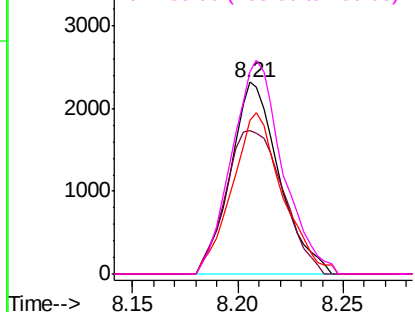


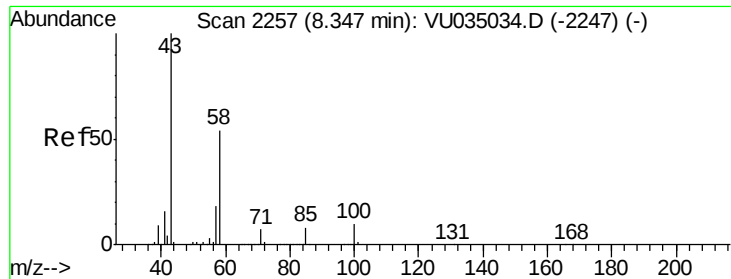
#47  
 Tetrachloroethene  
 Concen: 0.342 ug/L  
 RT: 8.21 min Scan# 2213  
 Delta R.T. 0.00 min  
 Lab File: VU035037.D  
 Acq: 10 Oct 2019 10:17

Tgt Ion: 164 Resp: 3727  
 Ion Ratio Lower Upper  
 164 100  
 129 74.9 68.5 127.1  
 131 80.1 67.3 124.9  
 166 105.3 93.1 172.9



Abundance Ion 163.90 (163.60 to 164.60): V  
 Ion 128.95 (128.65 to 129.65): V  
 Ion 130.95 (130.65 to 131.65): V  
 Ion 165.90 (165.60 to 166.60): V

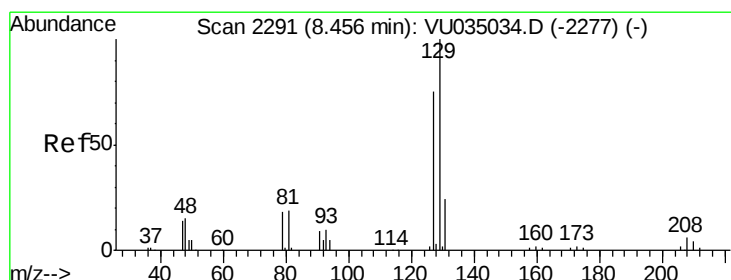
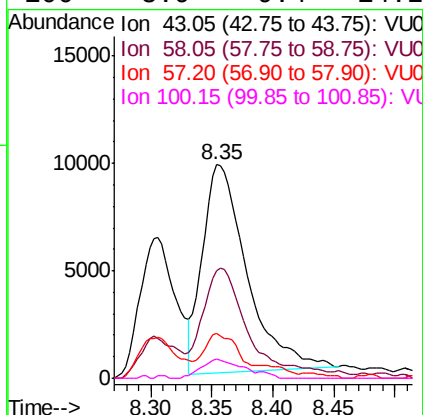
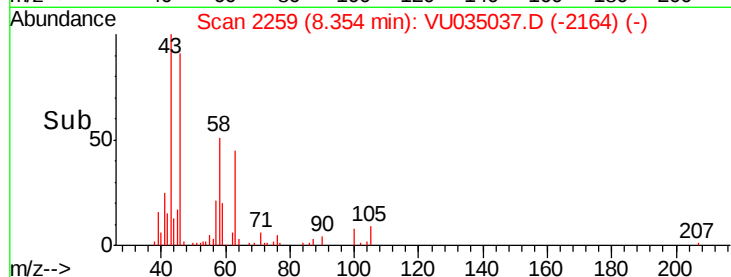
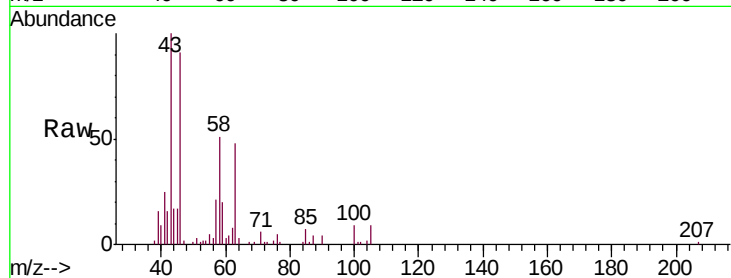




#48  
2-Hexanone  
Concen: 4.030 ug/L  
RT: 8.35 min Scan# 2259  
Delta R.T. 0.01 min  
Lab File: VU035037.D  
Acq: 10 Oct 2019 10:17

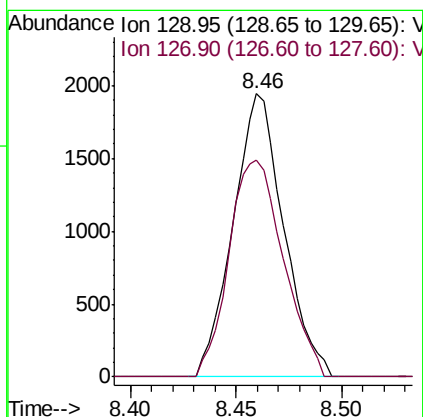
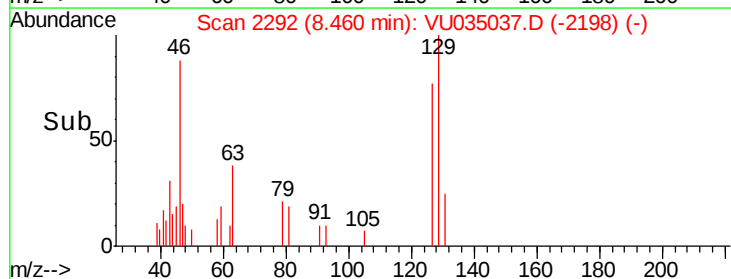
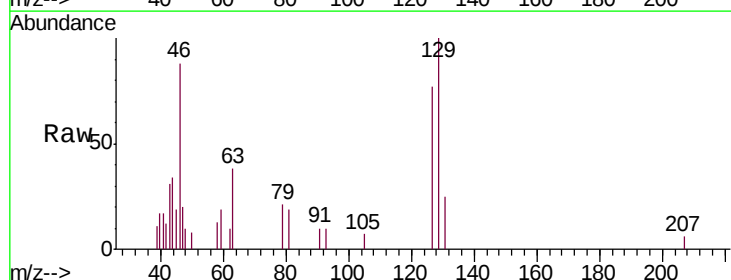
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL02

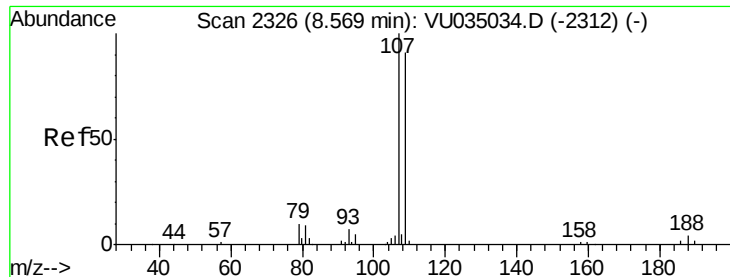
Tgt Ion: 43 Resp: 24474  
Ion Ratio Lower Upper  
43 100  
58 49.5 44.1 66.1  
57 21.0 15.8 23.8  
100 8.9 9.4 14.2#



#49  
Dibromochloromethane  
Concen: 0.299 ug/L  
RT: 8.46 min Scan# 2292  
Delta R.T. 0.00 min  
Lab File: VU035037.D  
Acq: 10 Oct 2019 10:17

Tgt Ion: 129 Resp: 3231  
Ion Ratio Lower Upper  
129 100  
127 76.7 51.9 96.5

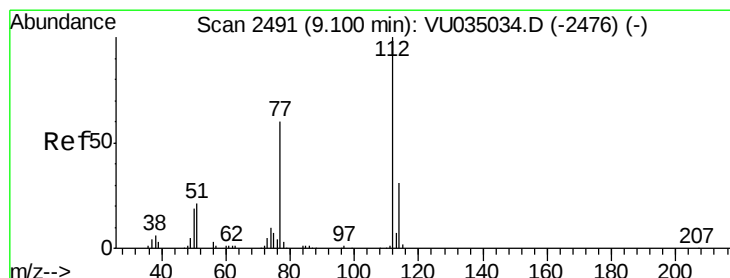
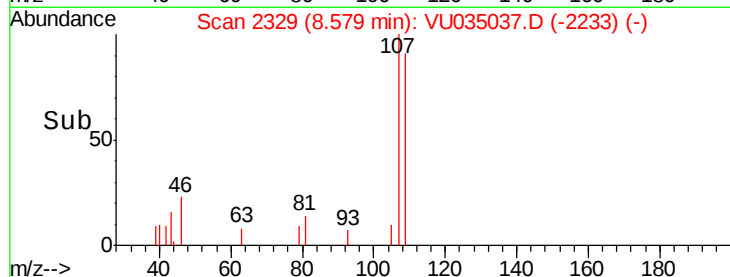
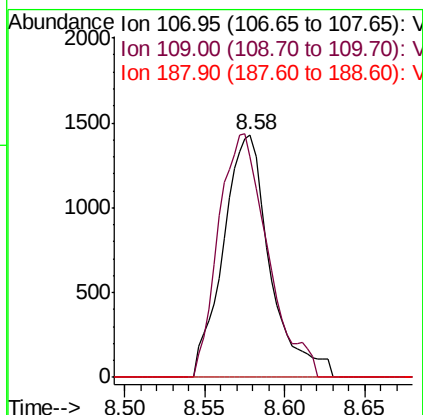
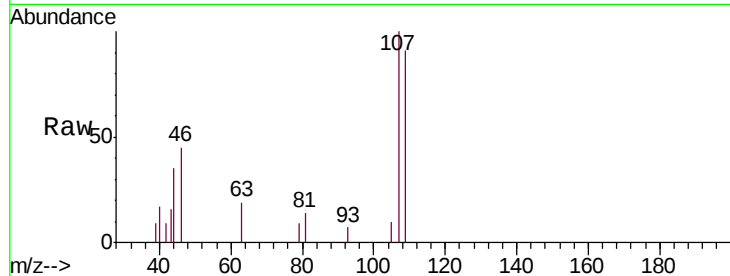




#50  
1,2-Dibromoethane  
Concen: 0.320 ug/L  
RT: 8.58 min Scan# 2329  
Delta R.T. 0.01 min  
Lab File: VU035037.D  
Acq: 10 Oct 2019 10:17

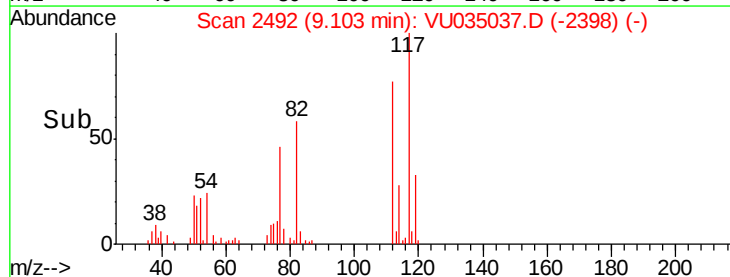
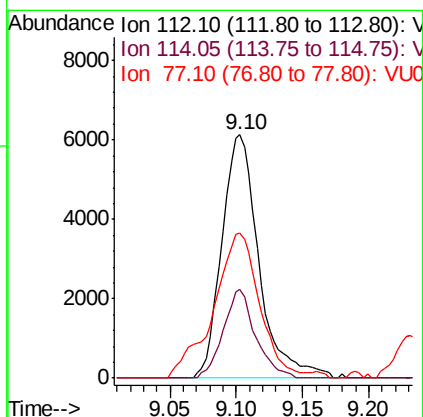
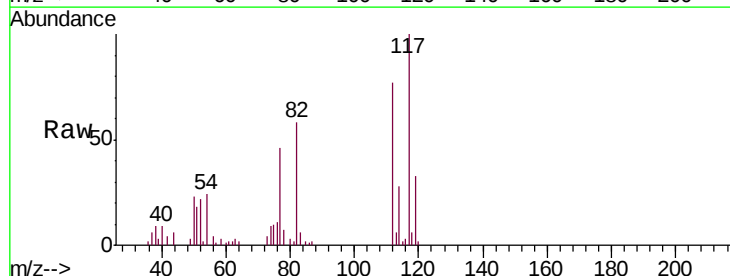
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL02

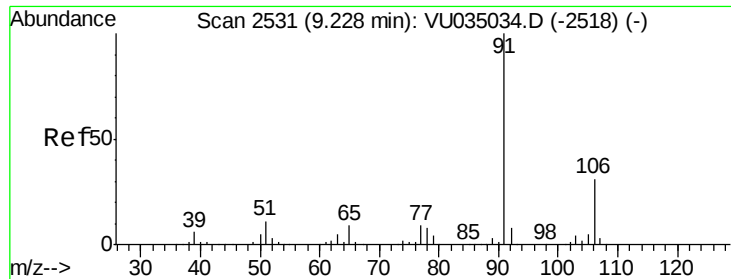
Tgt Ion:107 Resp: 2858  
Ion Ratio Lower Upper  
107 100  
109 90.8 64.8 120.4  
188 0.0 3.0 4.6#



#51  
Chlorobenzene  
Concen: 0.337 ug/L  
RT: 9.10 min Scan# 2492  
Delta R.T. 0.00 min  
Lab File: VU035037.D  
Acq: 10 Oct 2019 10:17

Tgt Ion:112 Resp: 11902  
Ion Ratio Lower Upper  
112 100  
114 36.7 22.1 41.1  
77 59.8 46.9 70.3





#52

Ethylbenzene

Concen: 0.318 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.01 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA\_U

ClientSampled :

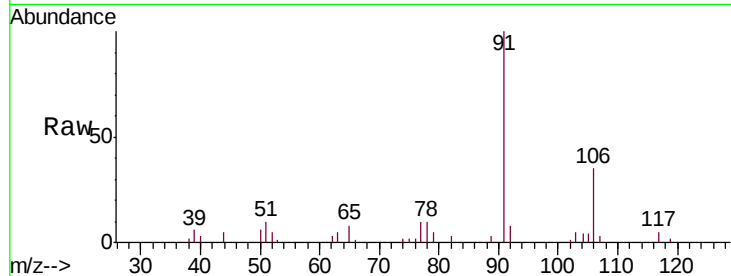
MDL02

Tgt Ion: 91 Resp: 19115

Ion Ratio Lower Upper

91 100

106 35.0 21.6 40.2



Abundance Ion 91.15 (90.85 to 91.85): VU035037.D (-2518) (-)

Ion 106.15 (105.85 to 106.85): VU035037.D (-2518) (-)

9.23

12000

10000

8000

6000

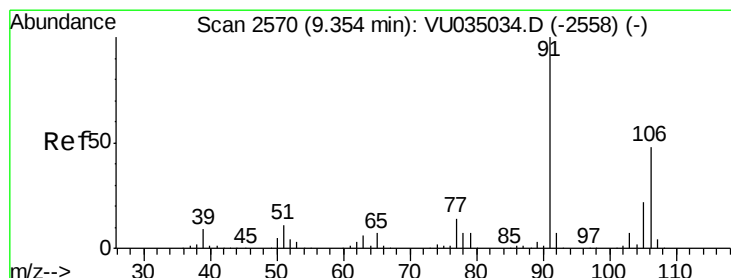
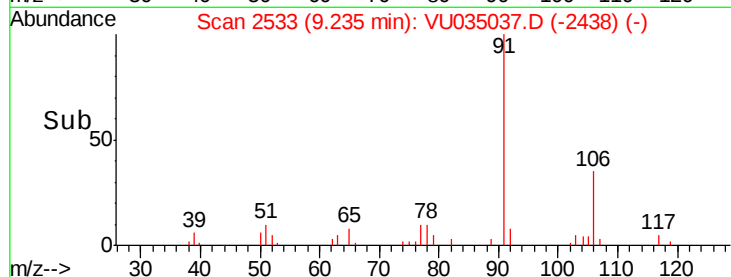
4000

2000

0

Time-->

9.15 9.20 9.25 9.30



#53

m,p-Xylene

Concen: 0.305 ug/L

RT: 9.36 min Scan# 2572

Delta R.T. 0.01 min

Lab File: VU035037.D

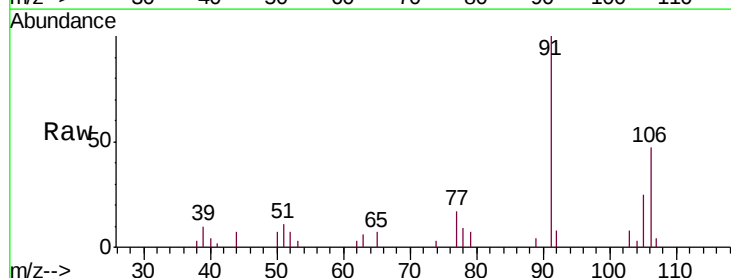
Acq: 10 Oct 2019 10:17

Tgt Ion: 106 Resp: 6768

Ion Ratio Lower Upper

106 100

91 211.1 147.6 274.0



Abundance Ion 106.15 (105.85 to 106.85): VU035037.D (-2558) (-)

Ion 91.15 (90.85 to 91.85): VU035037.D (-2558) (-)

9.36

8000

6000

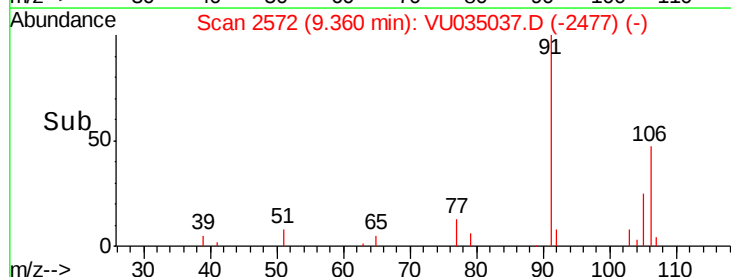
4000

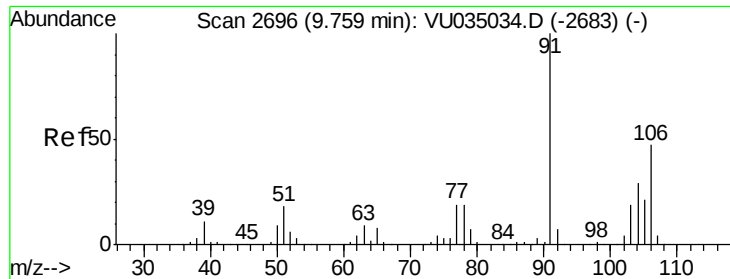
2000

0

Time-->

9.30 9.35 9.40 9.45

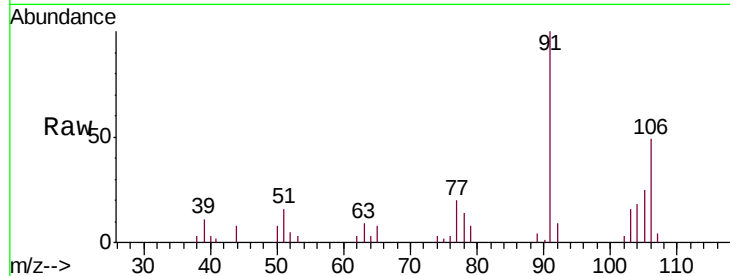




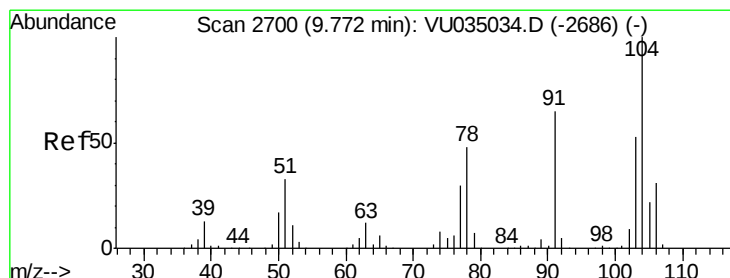
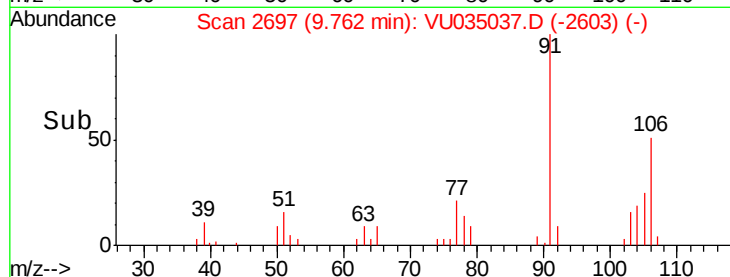
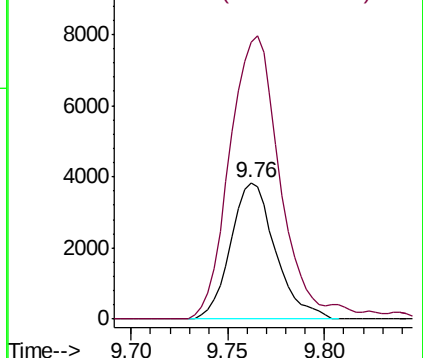
#54  
o-Xylene  
Concen: 0.284 ug/L  
RT: 9.76 min Scan# 2697  
Delta R.T. 0.00 min  
Lab File: VU035037.D  
Acq: 10 Oct 2019 10:17

Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL02

Tgt Ion:106 Resp: 6174  
Ion Ratio Lower Upper  
106 100  
91 202.9 148.5 275.7

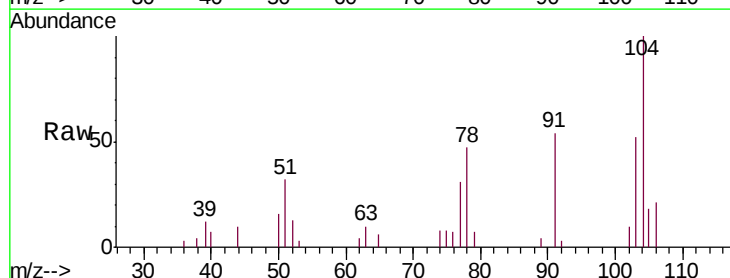


Abundance Ion 106.15 (105.85 to 106.85): V  
Ion 91.15 (90.85 to 91.85): VU0

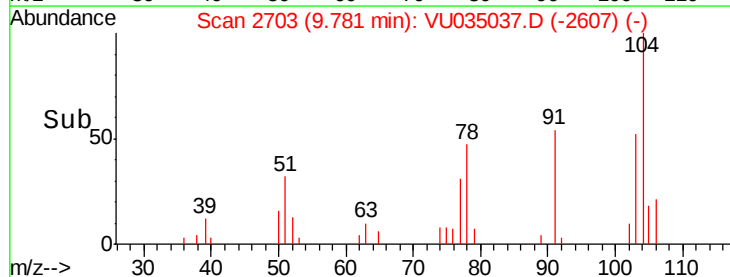
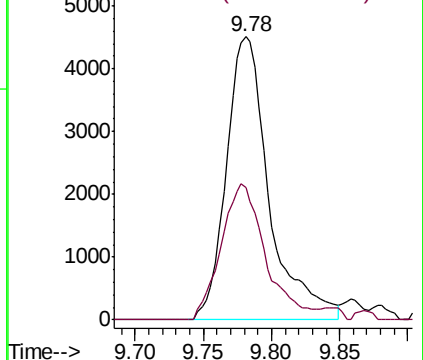


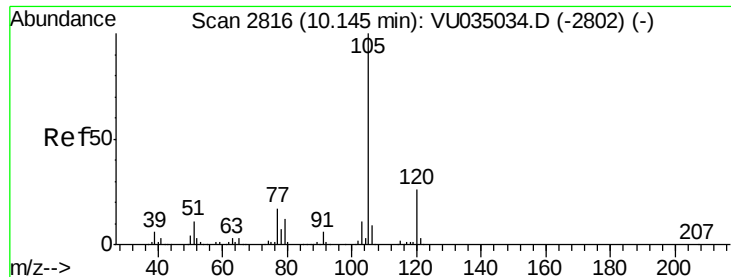
#55  
Styrene  
Concen: 0.280 ug/L  
RT: 9.78 min Scan# 2703  
Delta R.T. 0.01 min  
Lab File: VU035037.D  
Acq: 10 Oct 2019 10:17

Tgt Ion:104 Resp: 9858  
Ion Ratio Lower Upper  
104 100  
78 46.6 32.8 60.8



Abundance Ion 104.10 (103.80 to 104.80): V  
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 0.312 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA\_U

ClientSampleId :

MDL02

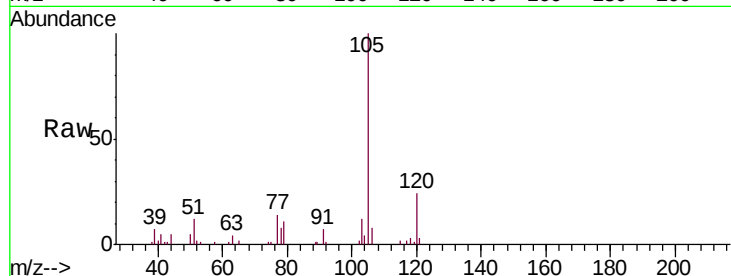
Tgt Ion:105 Resp: 18038

Ion Ratio Lower Upper

105 100

120 24.7 21.3 31.9

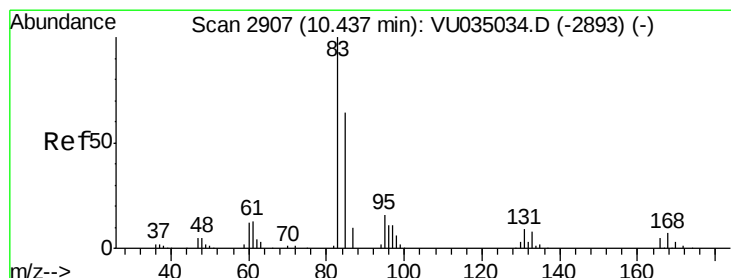
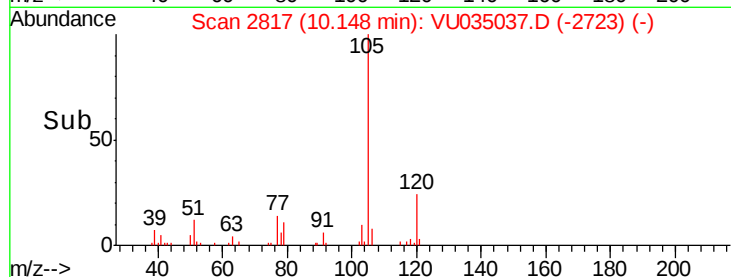
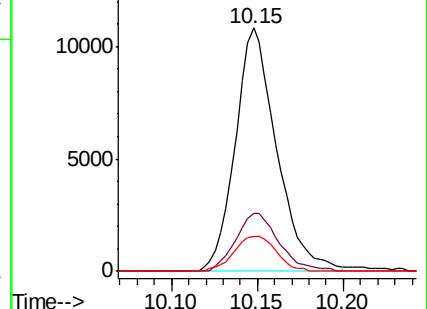
77 14.8 13.0 19.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.380 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

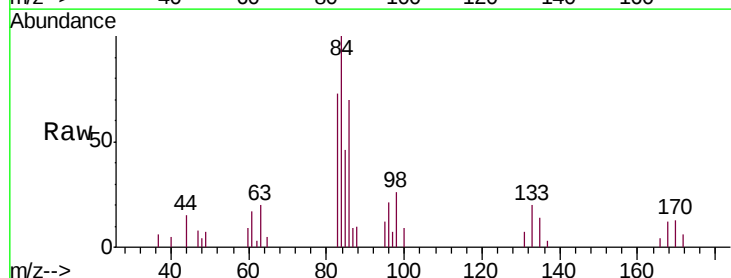
Tgt Ion: 83 Resp: 4827

Ion Ratio Lower Upper

83 100

85 63.7 44.6 82.8

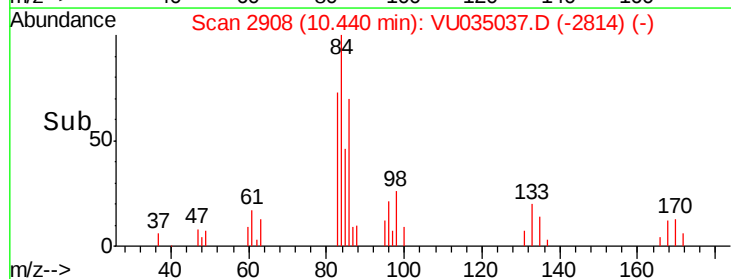
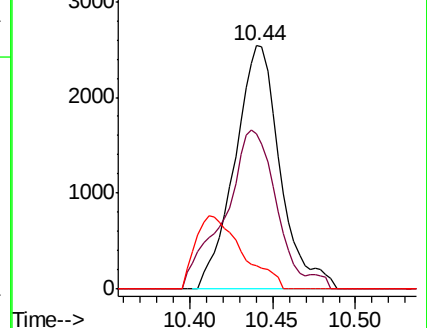
131 9.5 7.4 11.2

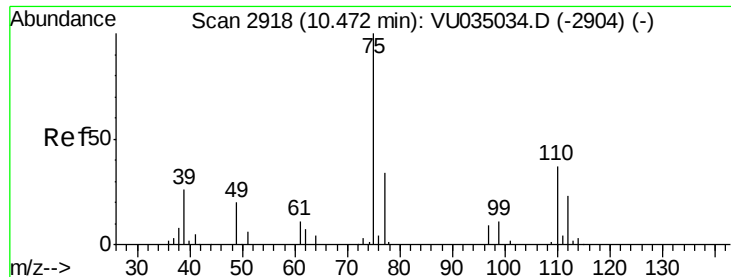


Abundance Ion 82.95 (82.65 to 83.65): VU

Ion 85.00 (84.70 to 85.70): VU

Ion 130.95 (130.65 to 131.65): V

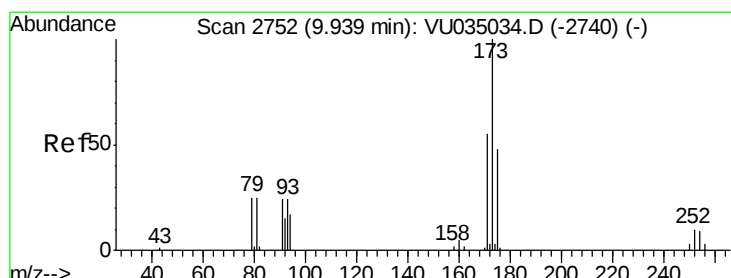
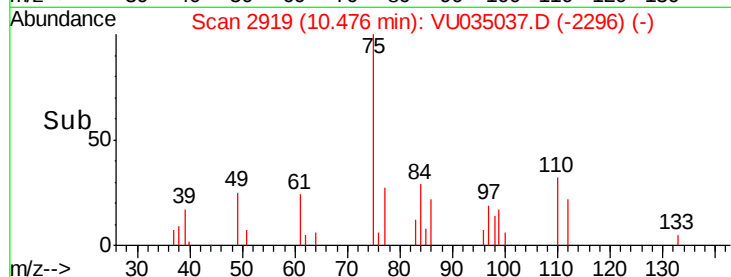
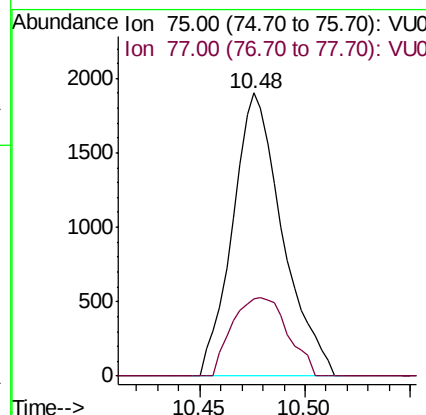
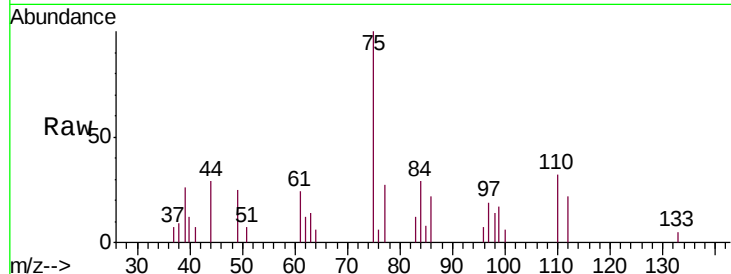




#59  
 1,2,3-Trichloropropane  
 Concen: 0.343 ug/L  
 RT: 10.48 min Scan# 2919  
 Delta R.T. 0.00 min  
 Lab File: VU035037.D  
 Acq: 10 Oct 2019 10:17

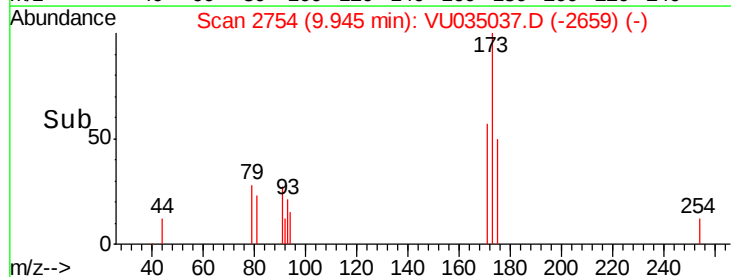
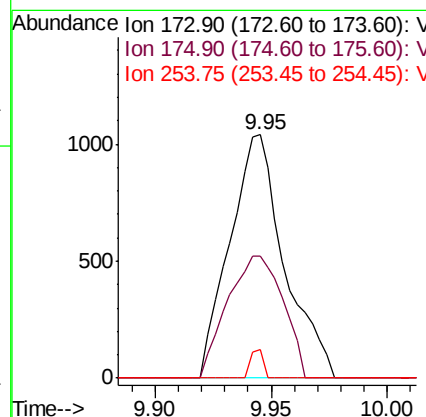
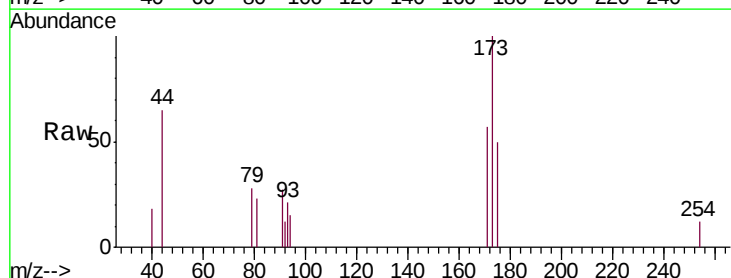
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL02

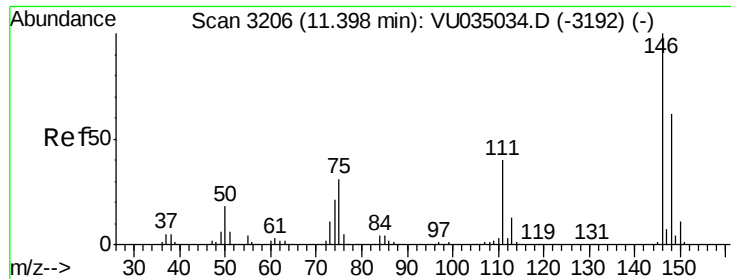
Tgt Ion: 75 Resp: 3124  
 Ion Ratio Lower Upper  
 75 100  
 77 30.8 26.5 39.7



#61  
 Bromoform  
 Concen: 0.333 ug/L  
 RT: 9.95 min Scan# 2754  
 Delta R.T. 0.01 min  
 Lab File: VU035037.D  
 Acq: 10 Oct 2019 10:17

Tgt Ion: 173 Resp: 1693  
 Ion Ratio Lower Upper  
 173 100  
 175 51.3 37.2 55.8  
 254 2.7 6.6 9.8#





#62

1,3-Dichlorobenzene

Concen: 0.342 ug/L

RT: 11.40 min Scan# 3208

Delta R.T. 0.01 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA\_U

ClientSampleId :

MDL02

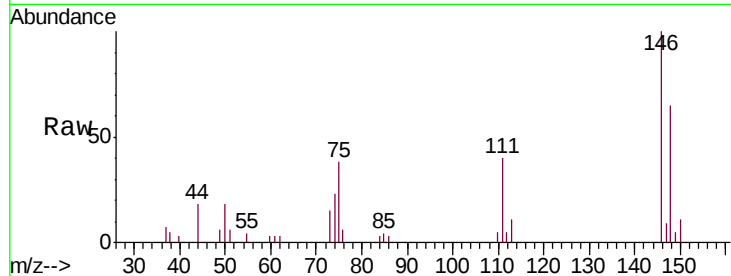
Tgt Ion:146 Resp: 7827

Ion Ratio Lower Upper

146 100

111 39.7 28.6 53.2

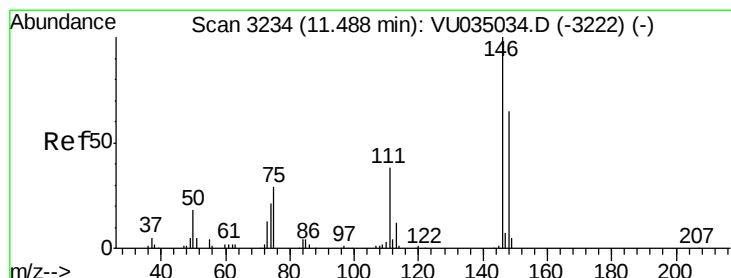
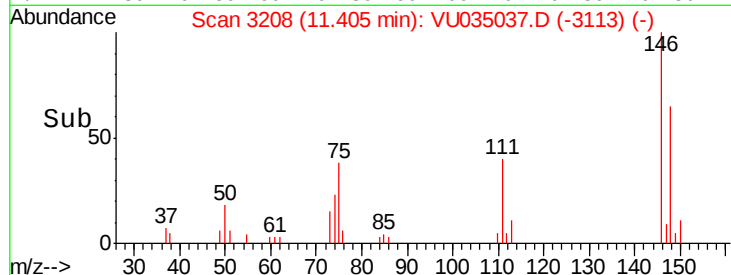
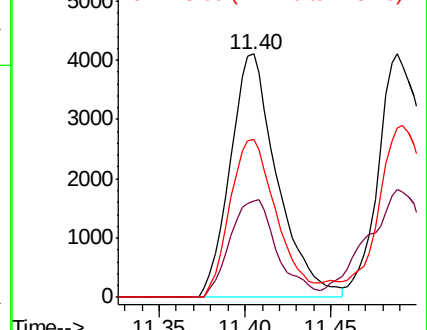
148 64.6 45.0 83.6



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.369 ug/L

RT: 11.49 min Scan# 3234

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

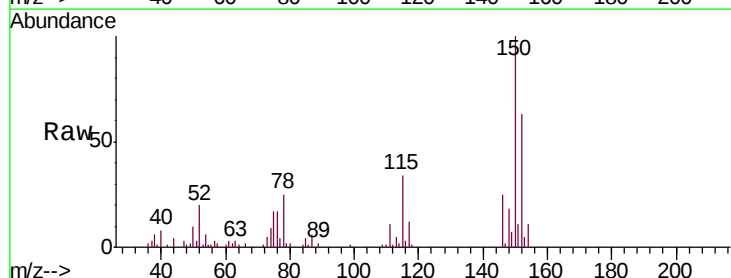
Tgt Ion:146 Resp: 8519

Ion Ratio Lower Upper

146 100

111 44.4 27.9 51.7

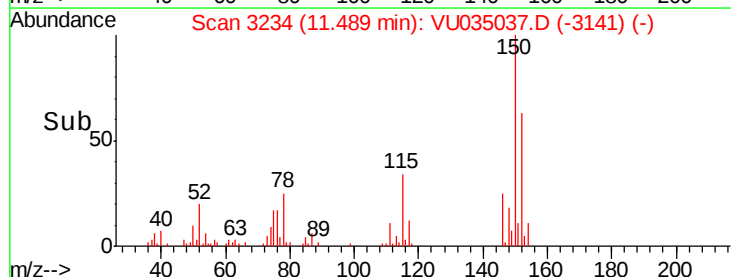
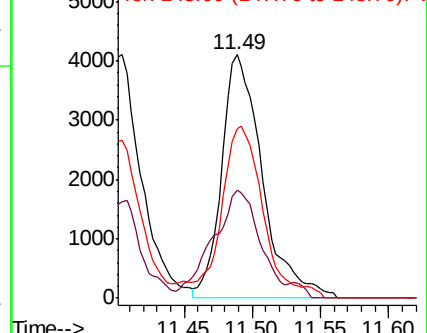
148 69.9 44.1 81.9

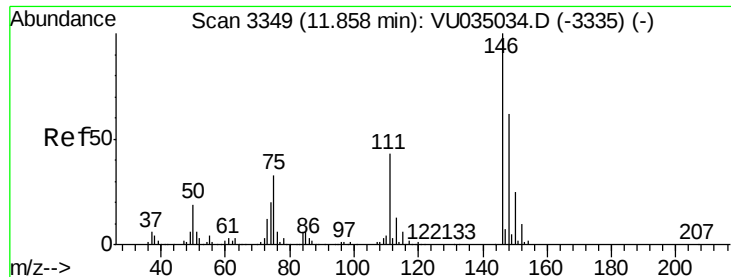


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.391 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Instrument :

MSVOA\_U

ClientSampleId :

MDL02

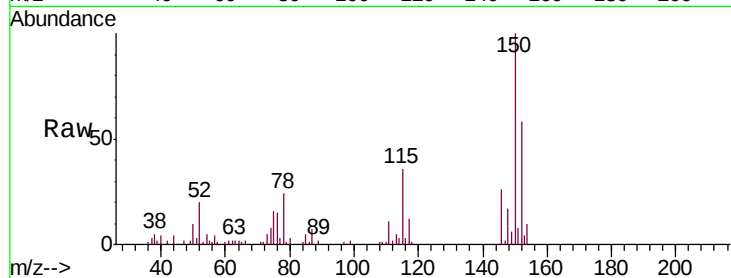
Tgt Ion:146 Resp: 8617

Ion Ratio Lower Upper

146 100

111 43.7 34.2 51.4

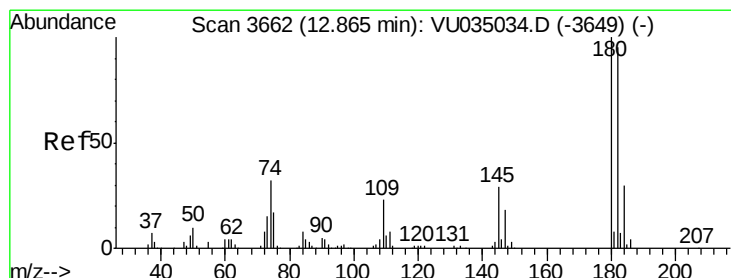
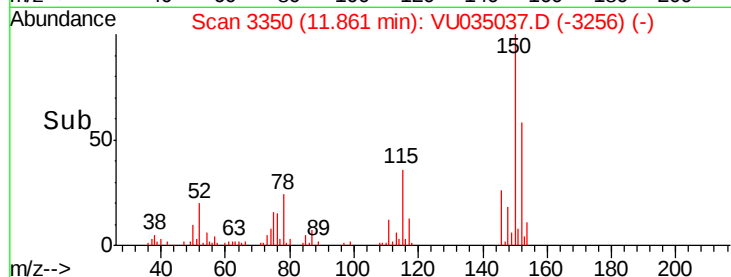
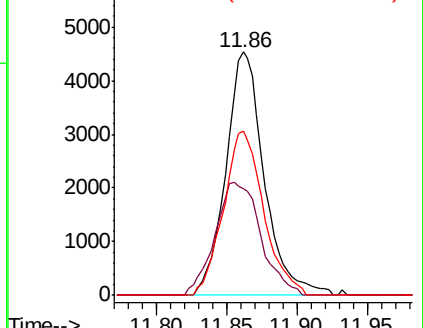
148 67.3 52.0 78.0



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 0.305 ug/L

RT: 12.87 min Scan# 3664

Delta R.T. 0.01 min

Lab File: VU035037.D

Acq: 10 Oct 2019 10:17

Tgt Ion:180 Resp: 4713

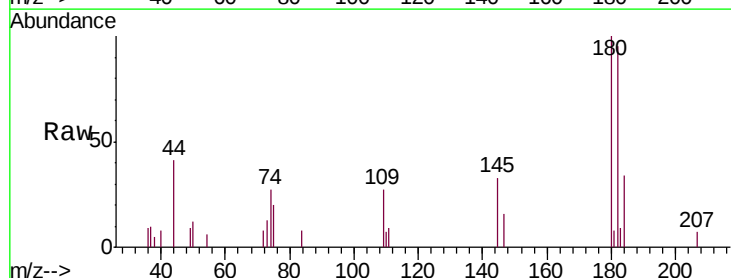
Ion Ratio Lower Upper

180 100

182 90.6 76.0 114.0

184 26.1 24.2 36.2

145 27.3 24.6 37.0

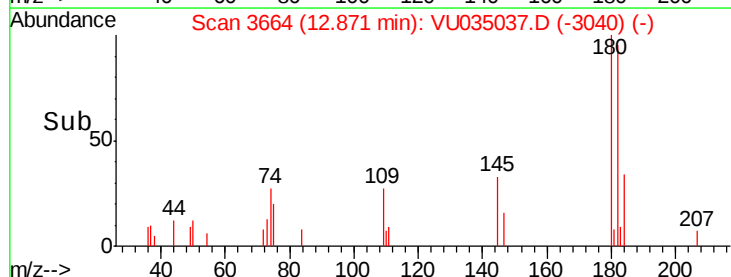
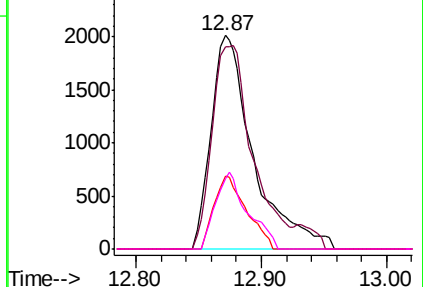


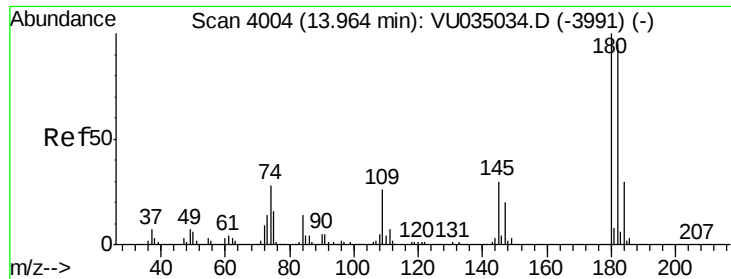
Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V





#70  
 1,2,3-Trichlorobenzene  
 Concen: 0.237 ug/L  
 RT: 13.98 min Scan# 4008  
 Delta R.T. 0.01 min  
 Lab File: VU035037.D  
 Acq: 10 Oct 2019 10:17

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL02

Tgt Ion:180 Resp: 2659  
 Ion Ratio Lower Upper  
 180 100  
 182 87.3 77.0 115.4  
 145 19.6 25.9 38.9#

