

Data File : VU035827.D  
Acq On : 25 Nov 2019 16:23  
Operator : JC/SP  
Sample : K5992-17  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GARF8

Quant Time: Nov 26 01:06:09 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR112119WMA.M  
Quant Title : TRACE VOA SOM01.0  
QLast Update : Tue Nov 26 01:03:35 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.29  | 114  | 259451   | 5.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.45  | 117  | 290741   | 5.00 | ug/L  | 0.00     |
| 60) 1,4-Dichlorobenzene-d4 | 11.83 | 152  | 157544   | 5.00 | ug/L  | 0.00     |

#### System Monitoring Compounds

|                                |        |       |          |          |      |         |
|--------------------------------|--------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.61   | 65    | 139770   | 4.12     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 40 - 130 | Recovery | =    | 82.40%  |
| 7) Chloroethane-d5             | 1.93   | 69    | 132654   | 4.52     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 130 | Recovery | =    | 90.40%  |
| 11) 1,1-Dichloroethene-d2      | 2.59   | 63    | 265121   | 4.21     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 125 | Recovery | =    | 84.20%  |
| 20) 2-Butanone-d5              | 4.70   | 46    | 461080   | 58.78    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 40 - 130 | Recovery | =    | 117.56% |
| 24) Chloroform-d               | 5.11   | 84    | 278892   | 4.86     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 97.20%  |
| 26) 1,2-Dichloroethane-d4      | 5.75   | 65    | 150708   | 4.68     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 93.60%  |
| 32) Benzene-d6                 | 5.77   | 84    | 506216   | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 125 | Recovery | =    | 91.20%  |
| 36) 1,2-Dichloropropane-d6     | 6.73   | 67    | 178215   | 4.77     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 60 - 140 | Recovery | =    | 95.40%  |
| 41) Toluene-d8                 | 7.93   | 98    | 419575   | 4.10     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 70 - 130 | Recovery | =    | 82.00%  |
| 43) trans-1,3-Dichloropropene- | 8.21   | 79    | 65373    | 4.49     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 55 - 130 | Recovery | =    | 89.80%  |
| 46) 2-Hexanone-d5              | 8.68   | 63    | 357723   | 61.19    | ug/L | 0.00    |
| Spiked Amount                  | 50.000 | Range | 45 - 130 | Recovery | =    | 122.38% |
| 57) 1,1,2,2-Tetrachloroethane- | 10.78  | 84    | 159425   | 5.06     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 65 - 120 | Recovery | =    | 101.20% |
| 64) 1,2-Dichlorobenzene-d4     | 12.22  | 152   | 155970   | 4.56     | ug/L | 0.00    |
| Spiked Amount                  | 5.000  | Range | 80 - 120 | Recovery | =    | 91.20%  |

#### Target Compounds

|                                |      |     |        |            | Qvalue |
|--------------------------------|------|-----|--------|------------|--------|
| 2) Dichlorodifluoromethane     | 1.39 | 85  | 81869  | 2.329 ug/L | 98     |
| 3) Chloromethane               | 1.54 | 50  | 281768 | 6.510 ug/L | 100    |
| 5) Vinyl chloride              | 1.62 | 62  | 214810 | 4.958 ug/L | 96     |
| 6) Bromomethane                | 1.87 | 94  | 114311 | 5.134 ug/L | 97     |
| 8) Chloroethane                | 1.95 | 64  | 119605 | 4.771 ug/L | 94     |
| 9) Trichlorofluoromethane      | 2.16 | 101 | 461297 | 9.169 ug/L | 96     |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.61 | 101 | 122870 | 4.300 ug/L | 95     |
| 12) 1,1-Dichloroethene         | 2.60 | 96  | 152077 | 5.633 ug/L | 91     |
| 13) Acetone                    | 2.69 | 43  | 15902  | 2.308 ug/L | 99     |
| 16) Methylene chloride         | 3.08 | 84  | 106550 | 3.267 ug/L | 94     |
| 17) Methyl tert-butyl Ether    | 3.42 | 73  | 342136 | 5.238 ug/L | 99     |
| 18) trans-1,2-Dichloroethene   | 3.39 | 96  | 177703 | 6.685 ug/L | 97     |
| 22) cis-1,2-Dichloroethene     | 4.72 | 96  | 187937 | 6.344 ug/L | 94     |
| 23) Bromochloromethane         | 5.02 | 128 | 27719  | 2.148 ug/L | 95     |
| 25) Chloroform                 | 5.13 | 83  | 264901 | 4.558 ug/L | 98     |
| 27) 1,2-Dichloroethane         | 5.84 | 62  | 191389 | 5.007 ug/L | 100    |
| 29) 1,1,1-Trichloroethane      | 5.36 | 97  | 247589 | 5.274 ug/L | 98     |

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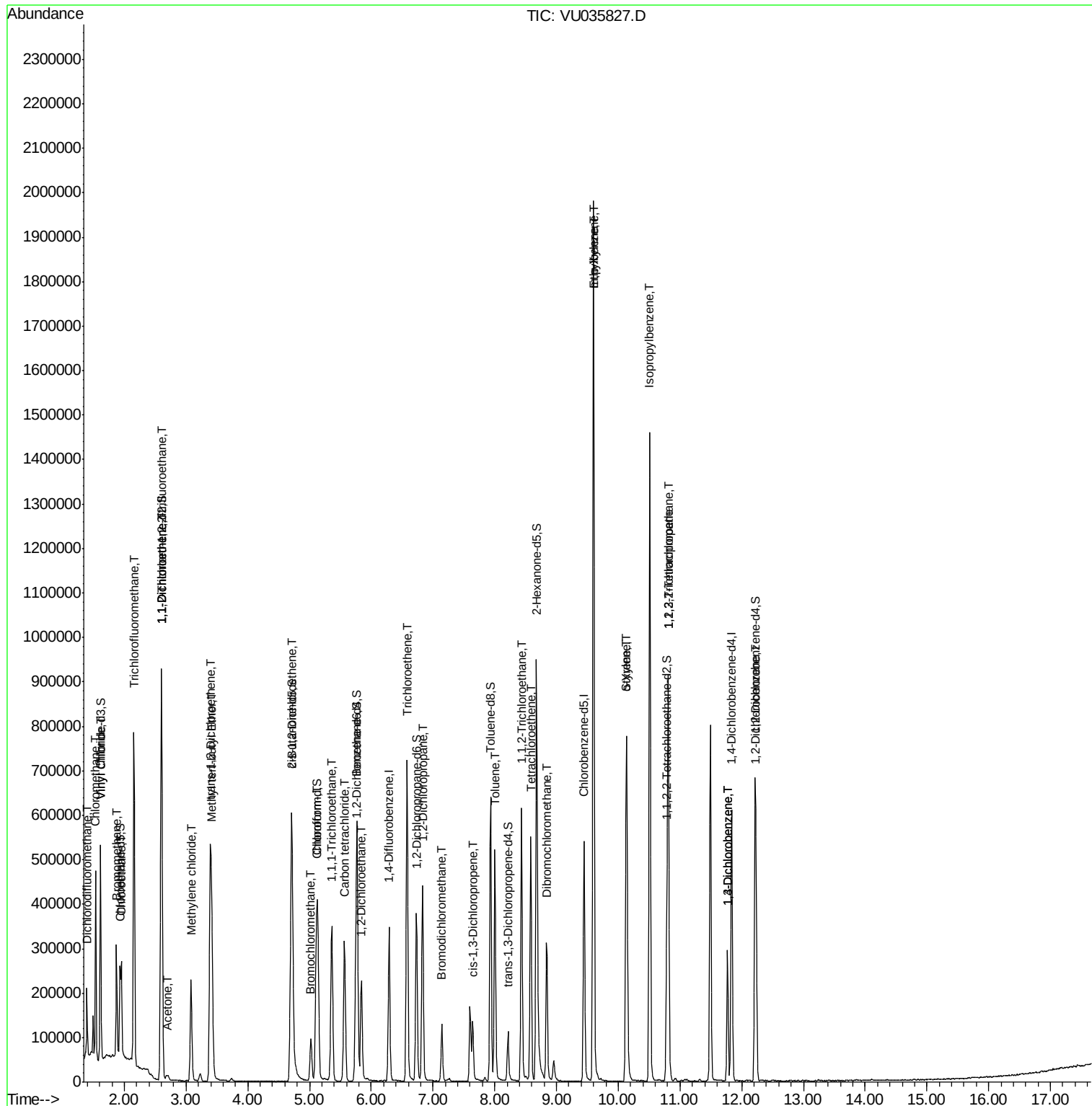
| Internal Standards            | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|-------|------|----------|--------|--------|----------|
| 31) Carbon tetrachloride      | 5.57  | 117  | 211592   | 5.204  | ug/L   | 100      |
| 34) Trichloroethene           | 6.58  | 95   | 249498   | 8.385  | ug/L   | 98       |
| 37) 1,2-Dichloropropane       | 6.83  | 63   | 172018   | 4.998  | ug/L   | 99       |
| 38) Bromodichloromethane      | 7.14  | 83   | 83719    | 2.029  | ug/L   | 100      |
| 39) cis-1,3-Dichloropropene   | 7.64  | 75   | 81755    | 1.835  | ug/L   | 100      |
| 42) Toluene                   | 8.00  | 91   | 372937   | 2.954  | ug/L   | 97       |
| 45) 1,1,2-Trichloroethane     | 8.43  | 97   | 188063   | 8.385  | ug/L   | 98       |
| 47) Tetrachloroethene         | 8.58  | 164  | 118866   | 5.250  | ug/L   | 99       |
| 49) Dibromochloromethane      | 8.84  | 129  | 157488   | 5.952  | ug/L   | 100      |
| 52) Ethylbenzene              | 9.60  | 91   | 1341258  | 10.275 | ug/L   | 99       |
| 53) m,p-Xylene                | 9.60  | 106  | 399929   | 8.690  | ug/L # | 21       |
| 54) o-Xylene                  | 10.13 | 106  | 131643   | 2.945  | ug/L   | 95       |
| 55) Styrene                   | 10.14 | 104  | 230822   | 3.113  | ug/L   | 98       |
| 56) Isopropylbenzene          | 10.51 | 105  | 892316   | 7.557  | ug/L   | 99       |
| 58) 1,1,2,2-Tetrachloroethane | 10.81 | 83   | 149275   | 4.810  | ug/L   | 98       |
| 59) 1,2,3-Trichloropropane    | 10.81 | 75   | 22420    | 1.002  | ug/L # | 1        |
| 62) 1,3-Dichlorobenzene       | 11.77 | 146  | 114667   | 2.028  | ug/L   | 97       |
| 63) 1,4-Dichlorobenzene       | 11.77 | 146  | 114667   | 2.060  | ug/L   | 96       |
| 65) 1,2-Dichlorobenzene       | 12.24 | 146  | 107157   | 1.986  | ug/L   | 98       |

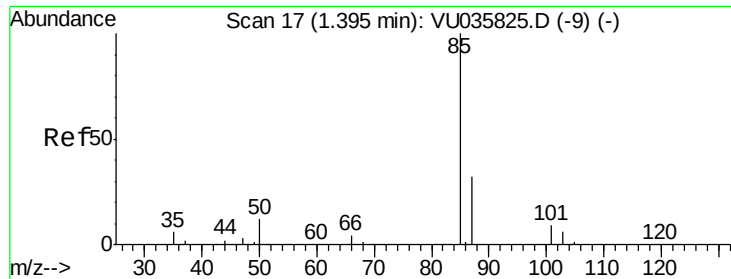
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 2.329 ug/L

RT: 1.39 min Scan# 17

Delta R.T. 0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

Instrument :

MSVOA\_U

ClientSampleId :

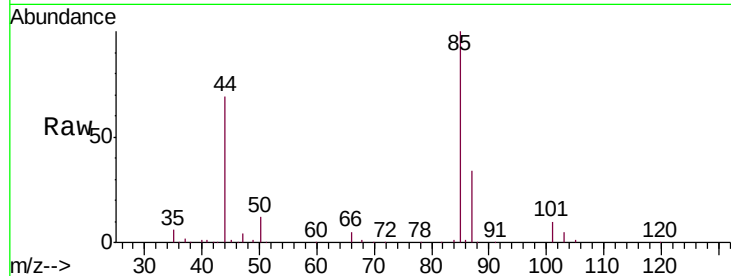
GARF8

Tgt Ion: 85 Resp: 81869

Ion Ratio Lower Upper

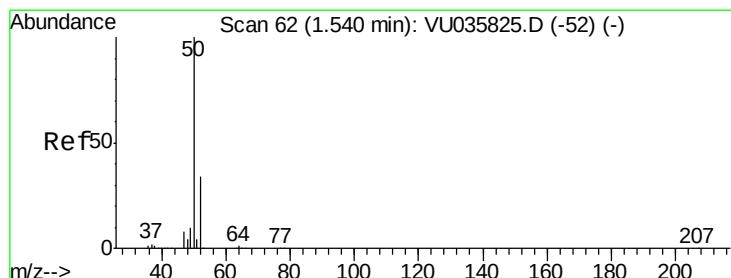
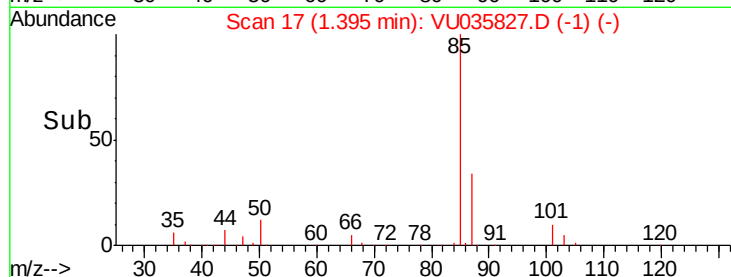
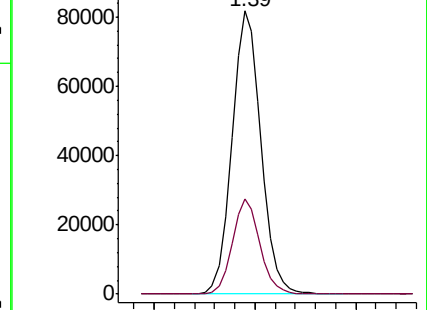
85 100

87 31.8 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VU035827.D (-9) (-)

Ion 87.00 (86.70 to 87.70): VU035827.D (-9) (-)



#3

Chloromethane

Concen: 6.510 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU035827.D

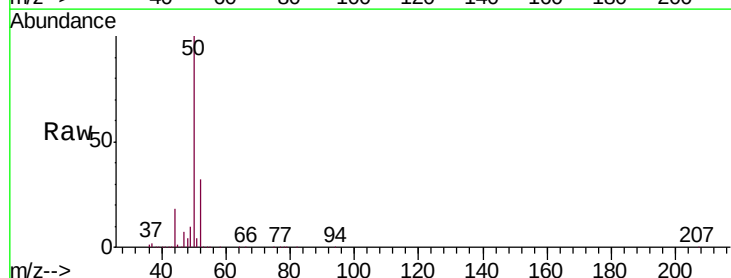
Acq: 25 Nov 2019 16:23

Tgt Ion: 50 Resp: 281768

Ion Ratio Lower Upper

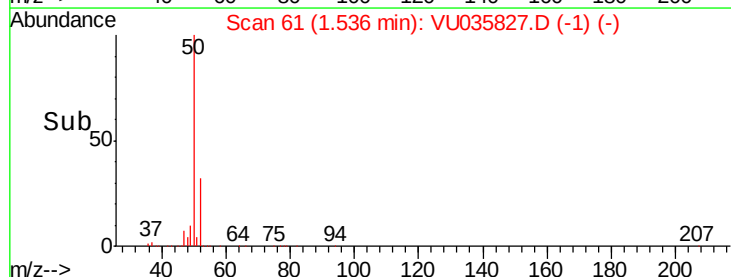
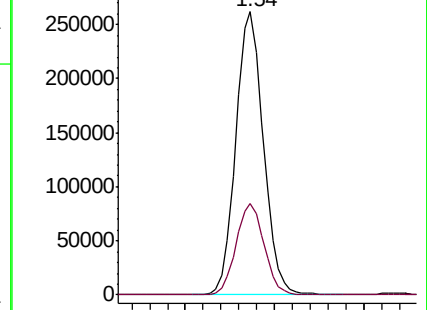
50 100

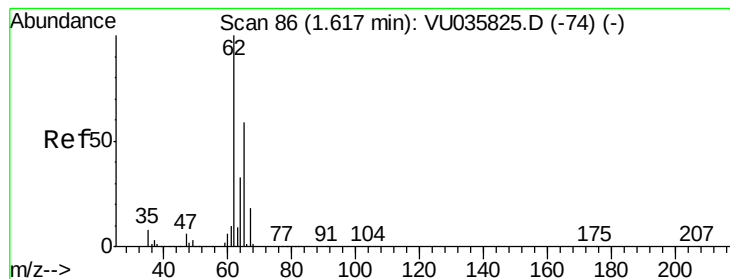
52 32.4 22.7 42.3



Abundance Ion 50.05 (49.75 to 50.75): VU035827.D (-52) (-)

Ion 52.05 (51.75 to 52.75): VU035827.D (-52) (-)





#5

Vinyl chloride

Concen: 4.958 ug/L

RT: 1.62 min Scan# 86

Delta R.T. 0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

Instrument :

MSVOA\_U

ClientSampleId :

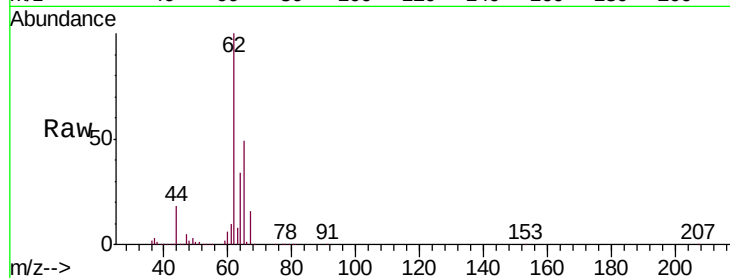
GARF8

Tgt Ion: 62 Resp: 214810

Ion Ratio Lower Upper

62 100

64 34.2 22.5 41.9



Abundance Ion 62.00 (61.70 to 62.70): VU035827.D (-74) (-)

Ion 64.10 (63.80 to 64.80): VU035827.D (-74) (-)

1.62

200000

150000

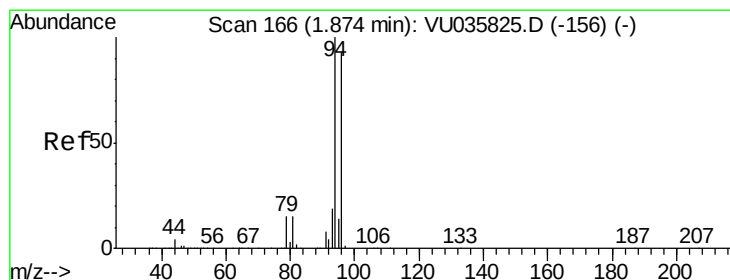
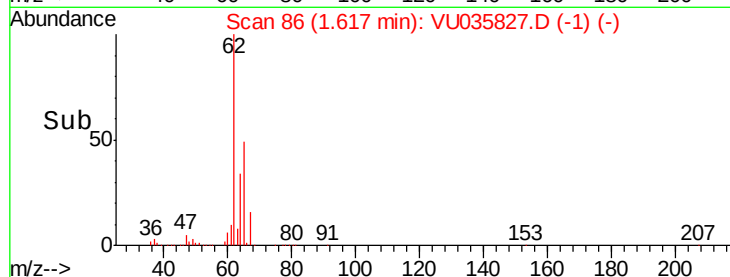
100000

50000

0

1.55 1.60 1.65 1.70

Time-->



#6

Bromomethane

Concen: 5.134 ug/L

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU035827.D

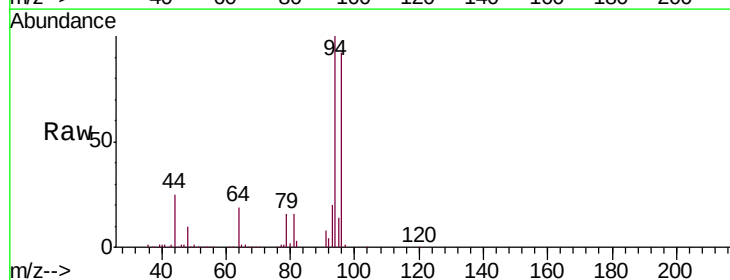
Acq: 25 Nov 2019 16:23

Tgt Ion: 94 Resp: 114311

Ion Ratio Lower Upper

94 100

96 92.0 66.5 123.5



Abundance Ion 94.00 (93.70 to 94.70): VU035827.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU035827.D (-156) (-)

1.87

100000

80000

60000

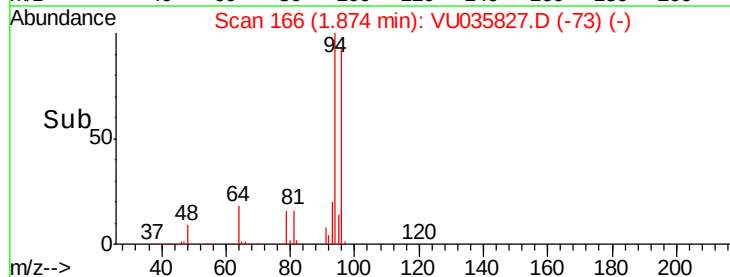
40000

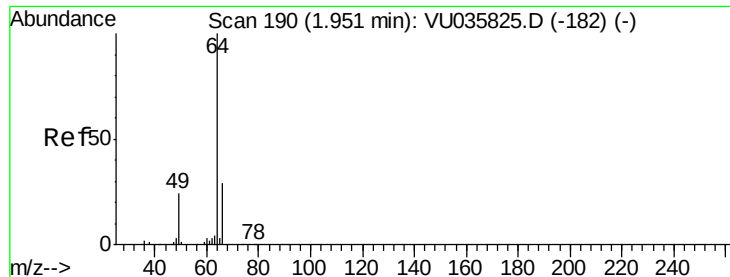
20000

0

1.80 1.85 1.90 1.95

Time-->

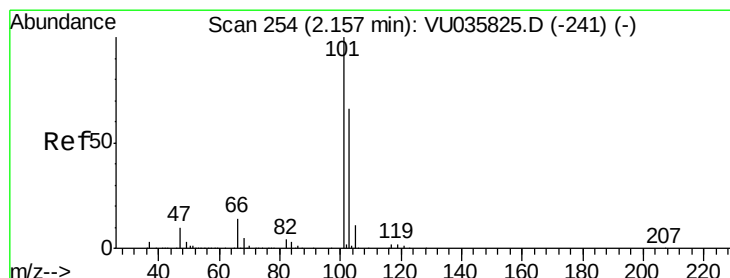
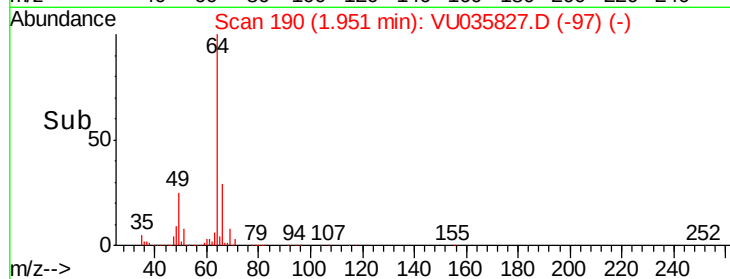
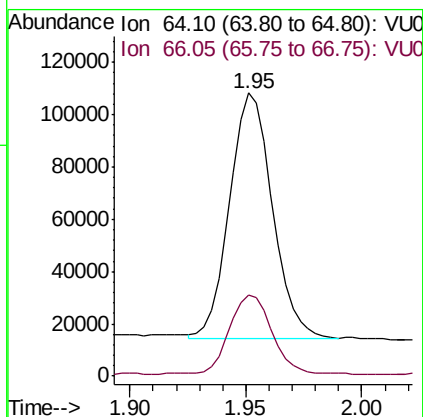
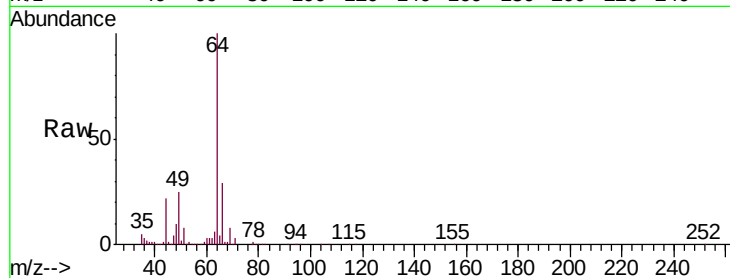




#8  
Chloroethane  
Concen: 4.771 ug/L  
RT: 1.95 min Scan# 190  
Delta R.T. 0.00 min  
Lab File: VU035827.D  
Acq: 25 Nov 2019 16:23

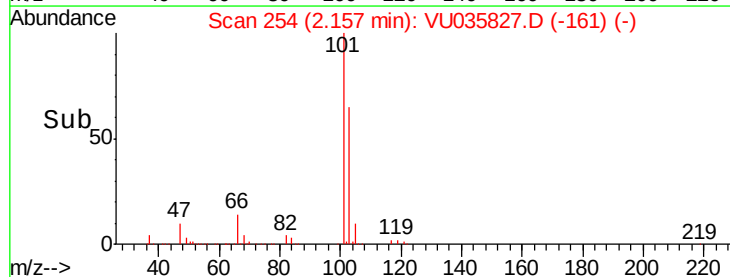
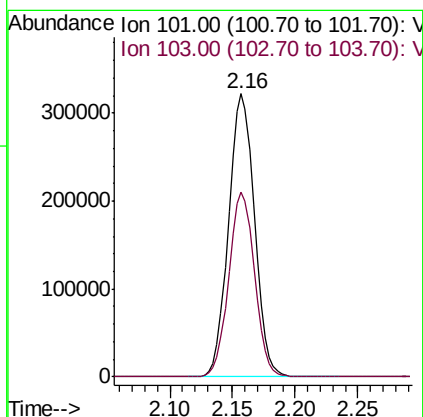
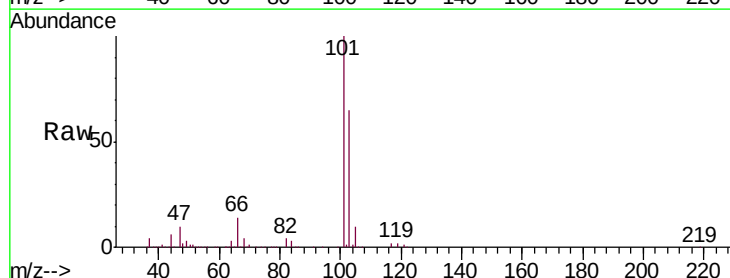
Instrument :  
MSVOA\_U  
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GARF8

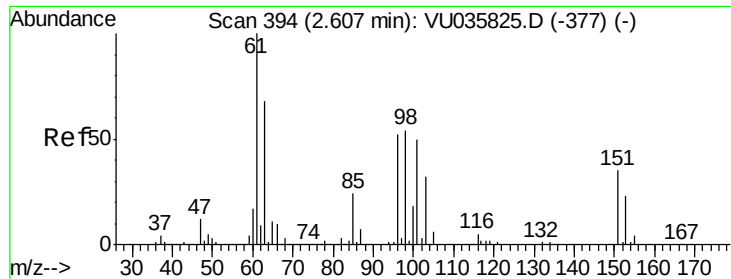
Tgt Ion: 64 Resp: 119605  
Ion Ratio Lower Upper  
64 100  
66 28.7 22.3 41.5



#9  
Trichlorofluoromethane  
Concen: 9.169 ug/L  
RT: 2.16 min Scan# 254  
Delta R.T. 0.00 min  
Lab File: VU035827.D  
Acq: 25 Nov 2019 16:23

Tgt Ion: 101 Resp: 461297  
Ion Ratio Lower Upper  
101 100  
103 64.9 49.8 74.6





#10

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

Concen: 4.300 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

Instrument :

MSVOA\_U

ClientSampled :

GARF8

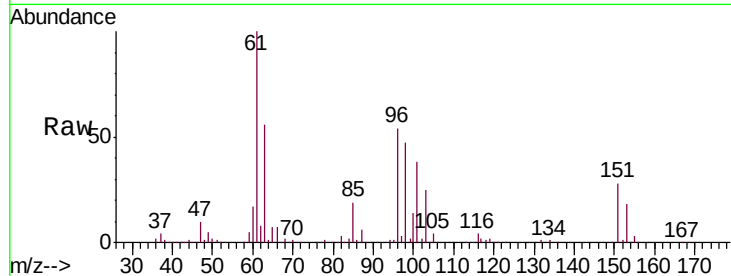
Tgt Ion: 101 Resp: 122870

Ion Ratio Lower Upper

101 100

85 47.2 38.1 57.1

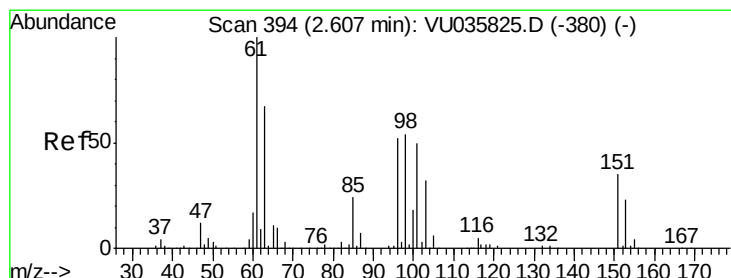
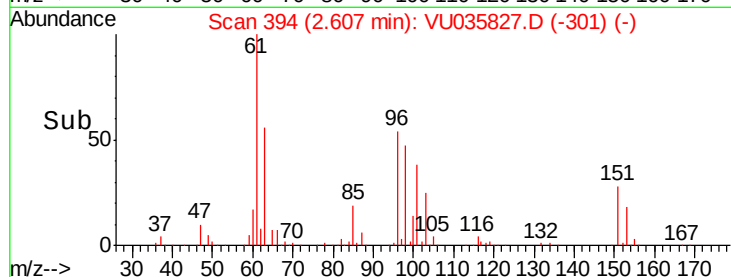
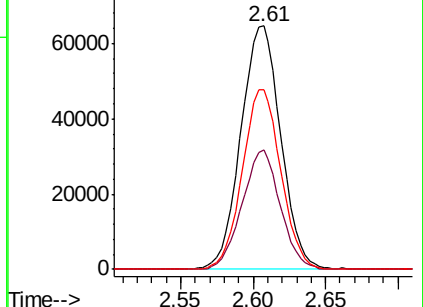
151 72.0 52.0 78.0



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: 5.633 ug/L

RT: 2.60 min Scan# 393

Delta R.T. -0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

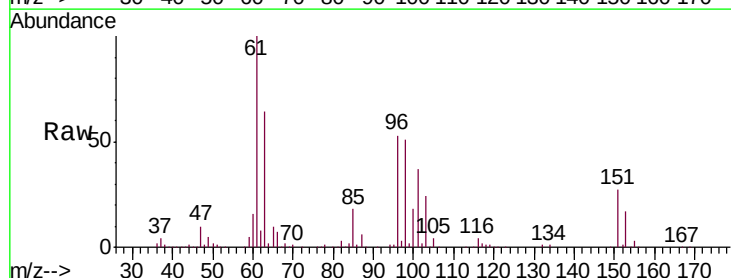
Tgt Ion: 96 Resp: 152077

Ion Ratio Lower Upper

96 100

61 187.5 139.3 258.7

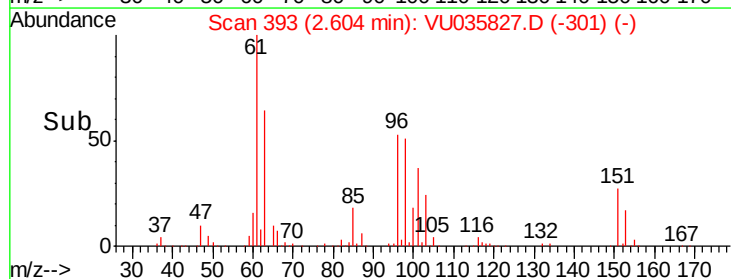
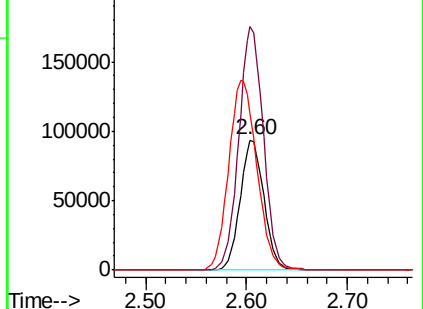
63 120.3 93.7 174.1

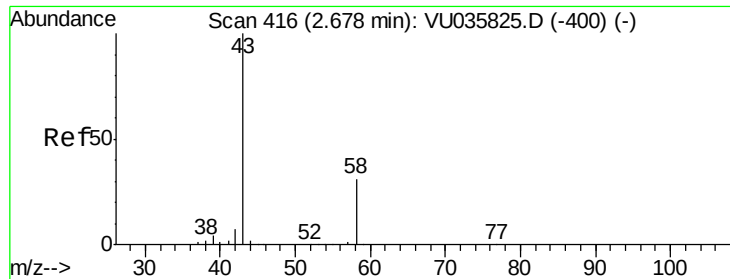


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 2.308 ug/L

RT: 2.69 min Scan# 420

Delta R.T. 0.01 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

Instrument :

MSVOA\_U

ClientSampled :

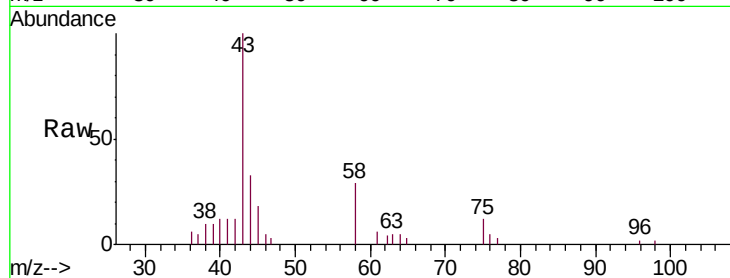
GARF8

Tgt Ion: 43 Resp: 15902

Ion Ratio Lower Upper

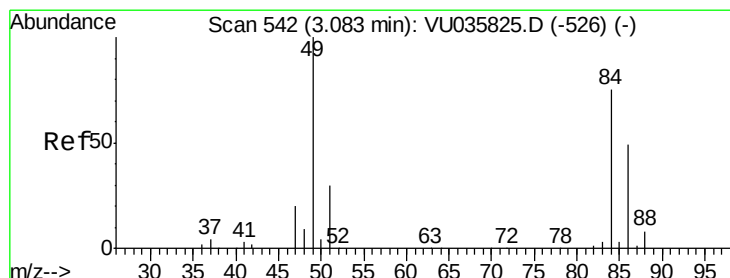
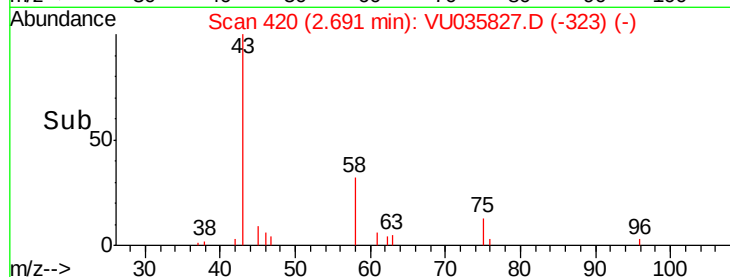
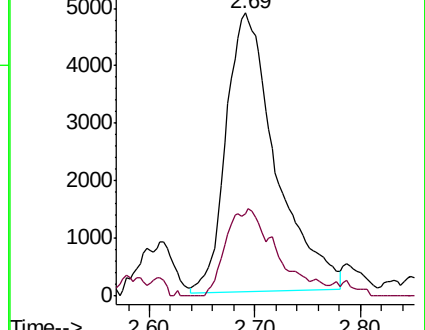
43 100

58 30.9 0.0 61.2



Abundance Ion 43.05 (42.75 to 43.75): VU035827.D (-420) (-)

Ion 58.05 (57.75 to 58.75): VU035827.D (-420) (-)



#16

Methylene chloride

Concen: 3.267 ug/L

RT: 3.08 min Scan# 542

Delta R.T. 0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

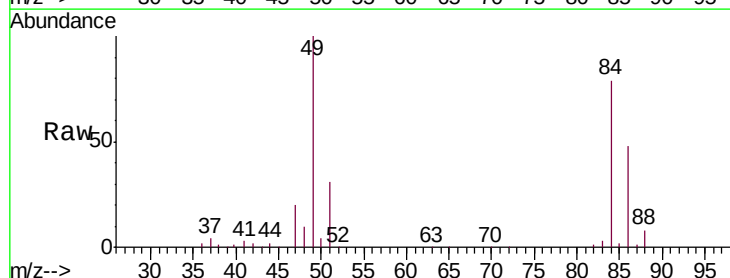
Tgt Ion: 84 Resp: 106550

Ion Ratio Lower Upper

84 100

86 60.7 44.4 82.5

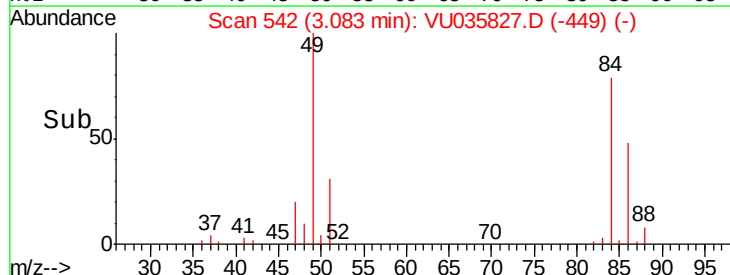
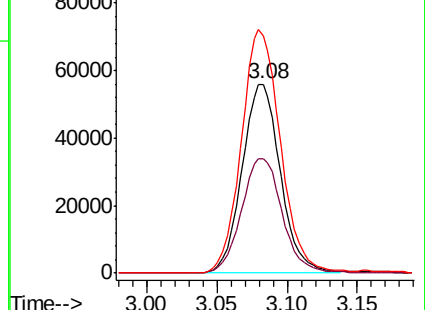
49 125.9 94.0 174.6



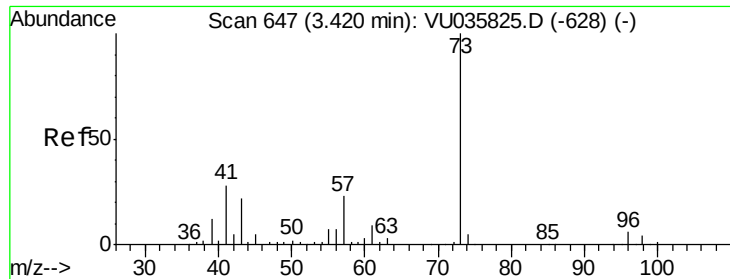
Abundance Ion 84.05 (83.75 to 84.75): VU035827.D (-449) (-)

Ion 86.00 (85.70 to 86.70): VU035827.D (-449) (-)

Ion 49.10 (48.80 to 49.80): VU035827.D (-449) (-)



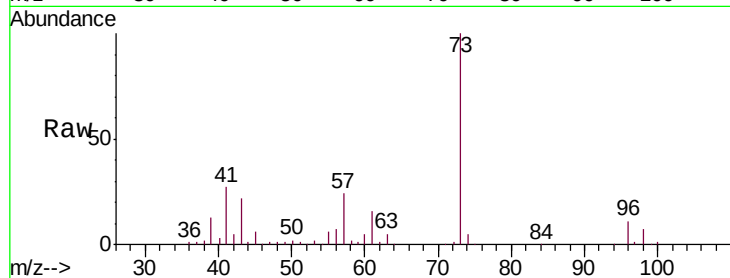




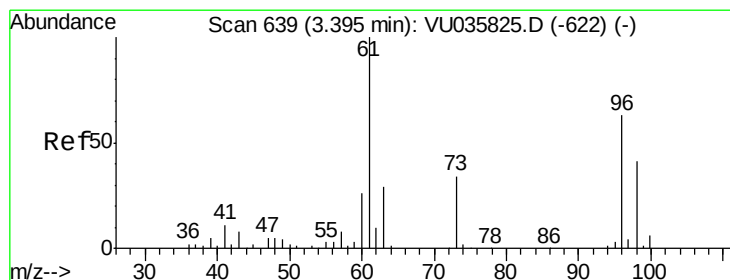
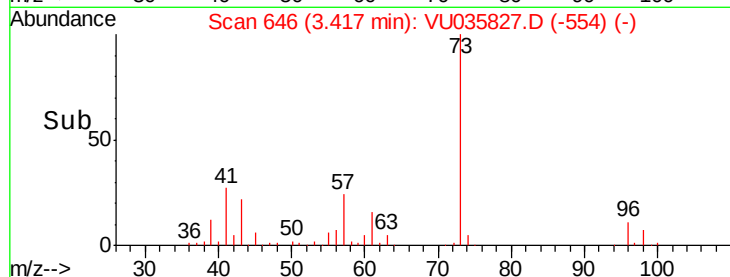
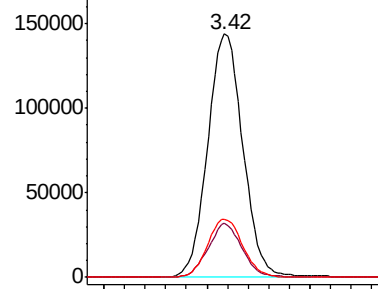
#17  
Methyl tert-butyl Ether  
Concen: 5.238 ug/L  
RT: 3.42 min Scan# 646  
Delta R.T. -0.00 min  
Lab File: VU035827.D  
Acq: 25 Nov 2019 16:23

Instrument :  
MSVOA\_U  
ClientSampleId :  
GARF8

Tgt Ion: 73 Resp: 342136  
Ion Ratio Lower Upper  
73 100  
43 21.3 17.4 26.2  
57 24.3 19.4 29.0

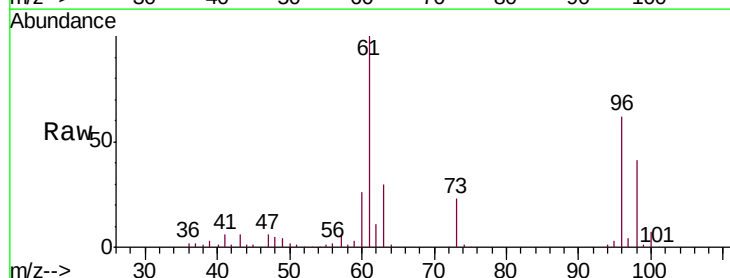


Abundance Ion 73.10 (72.80 to 73.80): VU0  
Ion 43.05 (42.75 to 43.75): VU0  
Ion 57.10 (56.80 to 57.80): VU0

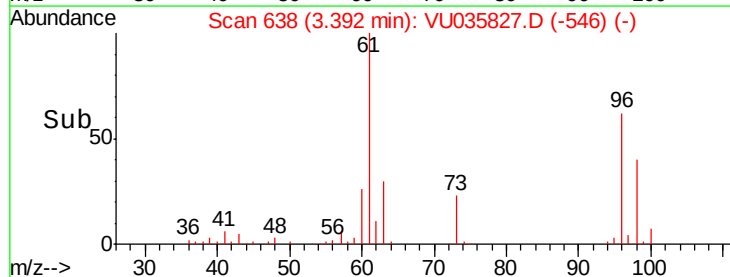
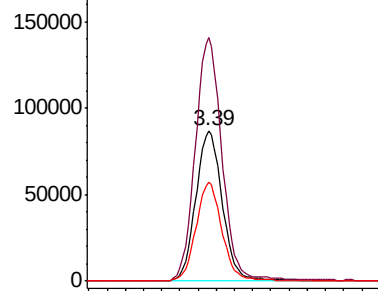


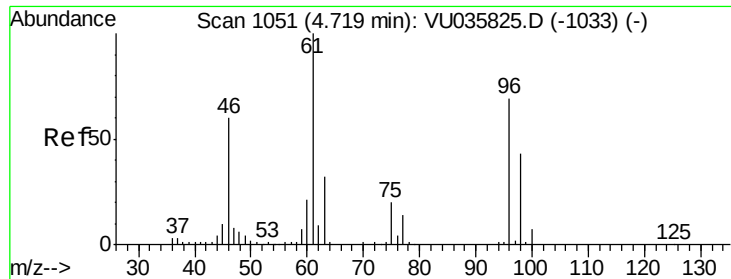
#18  
trans-1,2-Dichloroethene  
Concen: 6.685 ug/L  
RT: 3.39 min Scan# 638  
Delta R.T. -0.00 min  
Lab File: VU035827.D  
Acq: 25 Nov 2019 16:23

Tgt Ion: 96 Resp: 177703  
Ion Ratio Lower Upper  
96 100  
61 161.9 111.1 206.3  
98 65.6 43.1 80.1



Abundance Ion 96.00 (95.70 to 96.70): VU0  
Ion 61.05 (60.75 to 61.75): VU0  
Ion 97.95 (97.65 to 98.65): VU0





#22

cis-1,2-Dichloroethene

Concen: 6.344 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

Instrument :

MSVOA\_U

ClientSampleId :

GARF8

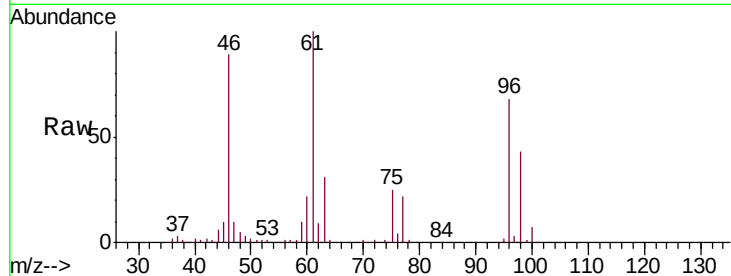
Tgt Ion: 96 Resp: 187937

Ion Ratio Lower Upper

96 100

61 147.3 98.1 182.1

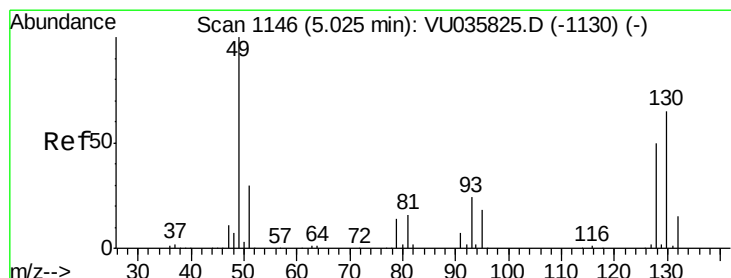
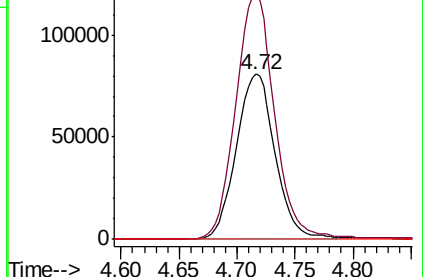
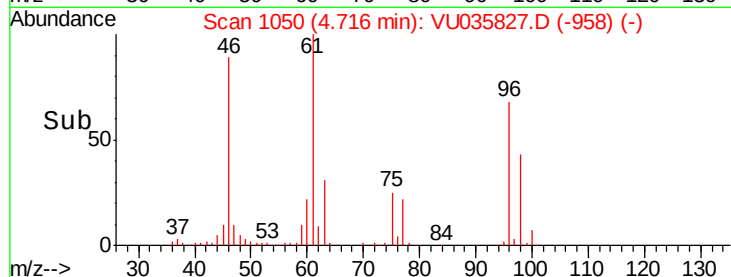
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU035827.D (-1033) (-)

Ion 61.05 (60.75 to 61.75): VU035827.D (-1033) (-)

Ion 68.15 (67.85 to 68.85): VU035827.D (-1033) (-)



#23

Bromochloromethane

Concen: 2.148 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

Tgt Ion: 128 Resp: 27719

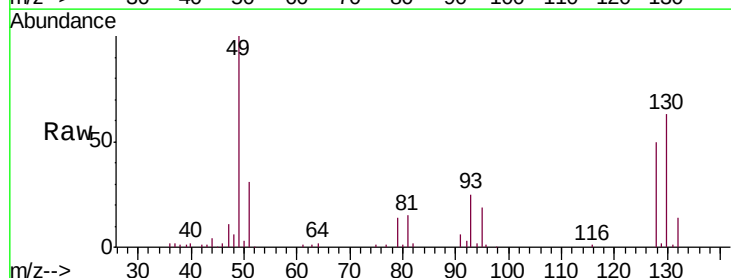
Ion Ratio Lower Upper

128 100

49 202.0 133.8 248.6

130 128.1 91.1 169.1

51 62.4 46.5 69.7

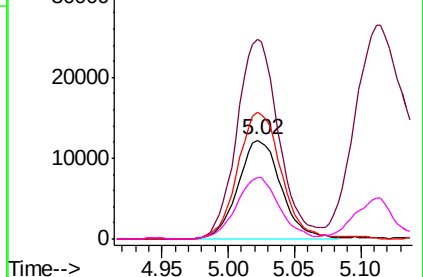
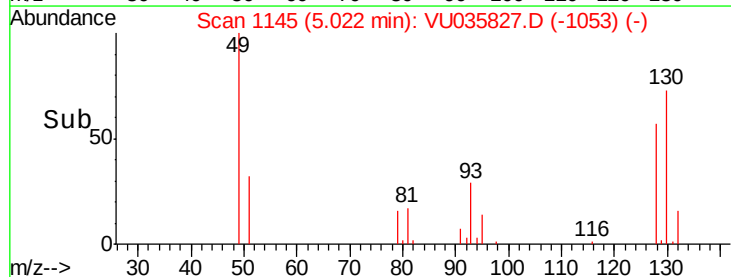


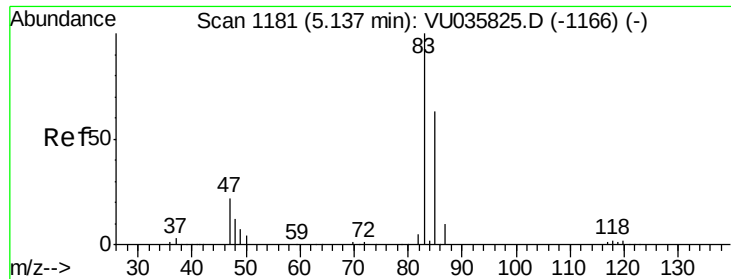
Abundance Ion 127.90 (127.60 to 128.60): VU035827.D (-1130) (-)

Ion 49.10 (48.80 to 49.80): VU035827.D (-1130) (-)

Ion 129.95 (129.65 to 130.65): VU035827.D (-1130) (-)

Ion 51.05 (50.75 to 51.75): VU035827.D (-1130) (-)

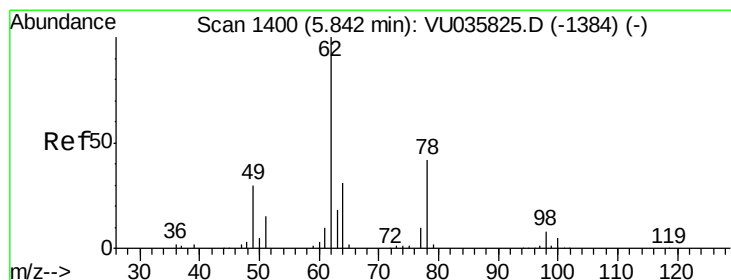
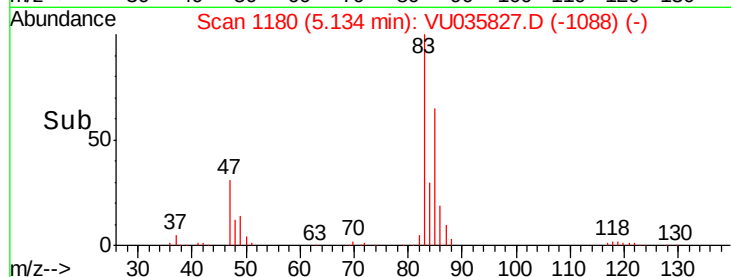
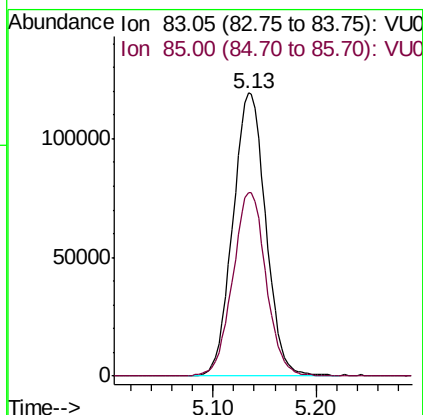
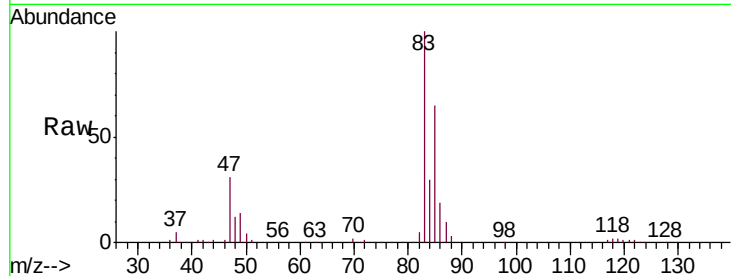




#25  
Chloroform  
Concen: 4.558 ug/L  
RT: 5.13 min Scan# 1180  
Delta R.T. -0.00 min  
Lab File: VU035827.D  
Acq: 25 Nov 2019 16:23

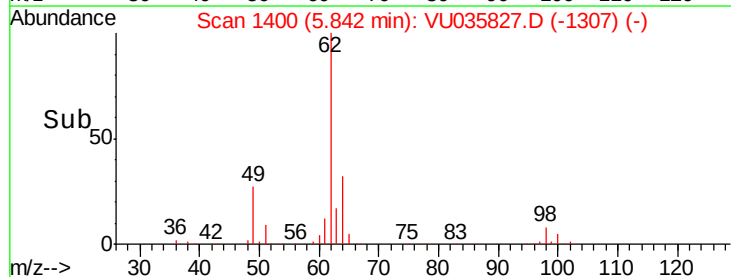
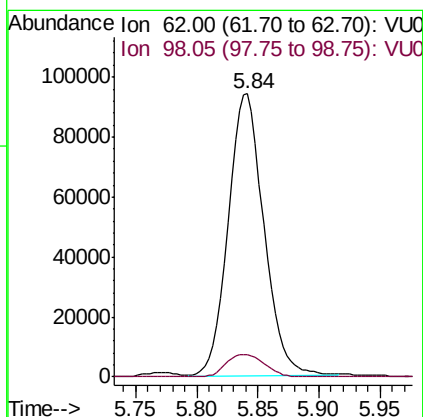
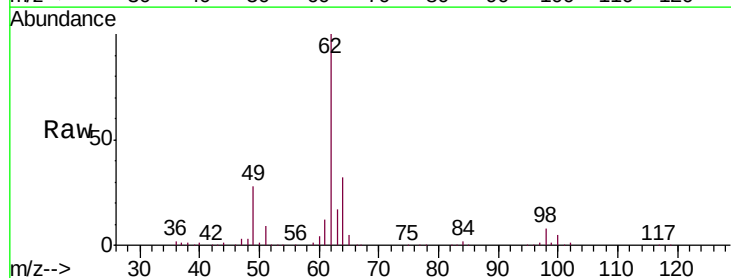
Instrument :  
MSVOA\_U  
ClientSampleId :  
GARF8

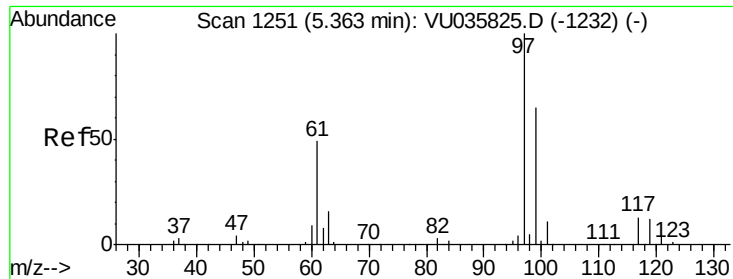
Tgt Ion: 83 Resp: 264901  
Ion Ratio Lower Upper  
83 100  
85 65.1 44.6 82.8



#27  
1,2-Dichloroethane  
Concen: 5.007 ug/L  
RT: 5.84 min Scan# 1400  
Delta R.T. 0.00 min  
Lab File: VU035827.D  
Acq: 25 Nov 2019 16:23

Tgt Ion: 62 Resp: 191389  
Ion Ratio Lower Upper  
62 100  
98 7.8 6.2 9.4

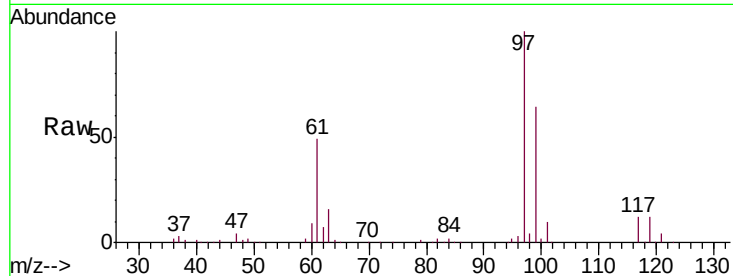




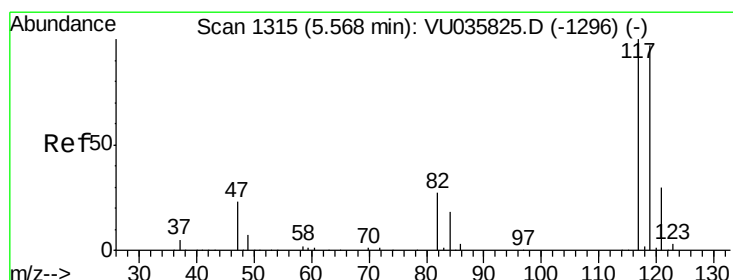
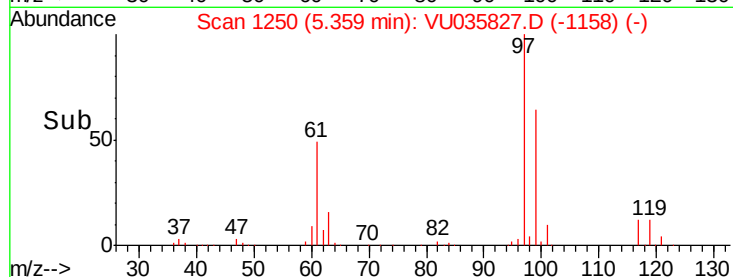
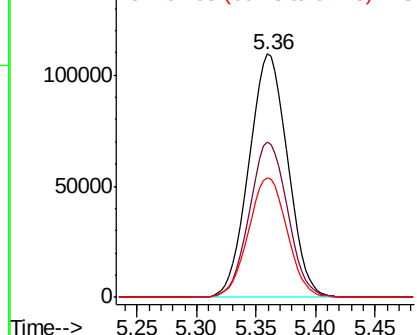
#29  
 1,1,1-Trichloroethane  
 Concen: 5.274 ug/L  
 RT: 5.36 min Scan# 1250  
 Delta R.T. -0.00 min  
 Lab File: VU035827.D  
 Acq: 25 Nov 2019 16:23

Instrument :  
 MSVOA\_U  
 ClientSampled :  
 GARF8

Tgt Ion: 97 Resp: 247589  
 Ion Ratio Lower Upper  
 97 100  
 99 63.0 51.9 77.9  
 61 49.0 40.3 60.5

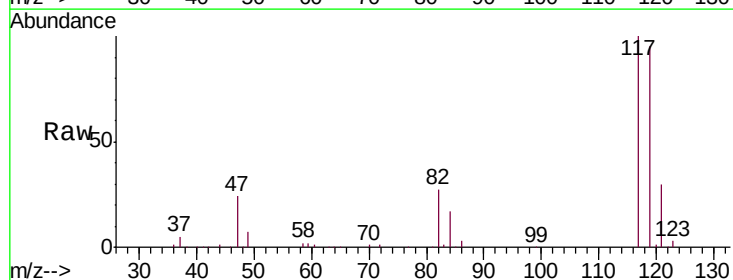


Abundance Ion 96.95 (96.65 to 97.65): VU0  
 Ion 99.05 (98.75 to 99.75): VU0  
 Ion 61.05 (60.75 to 61.75): VU0

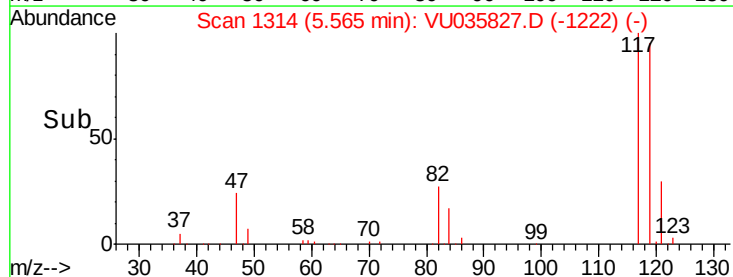
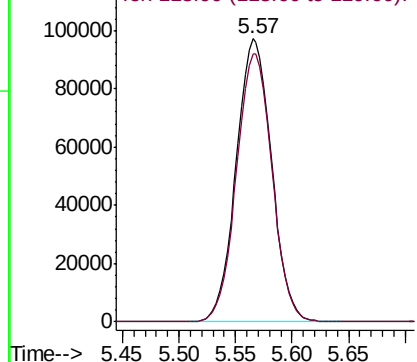


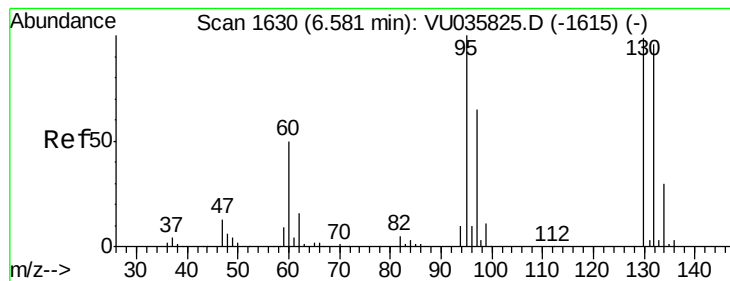
#31  
 Carbon tetrachloride  
 Concen: 5.204 ug/L  
 RT: 5.57 min Scan# 1314  
 Delta R.T. -0.00 min  
 Lab File: VU035827.D  
 Acq: 25 Nov 2019 16:23

Tgt Ion: 117 Resp: 211592  
 Ion Ratio Lower Upper  
 117 100  
 119 95.2 76.0 114.0



Abundance Ion 116.90 (116.60 to 117.60): V  
 Ion 118.90 (118.60 to 119.60): V





#34

Trichloroethene

Concen: 8.385 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

Instrument :

MSVOA\_U

ClientSampleId :

GARF8

Tgt Ion: 95 Resp: 249498

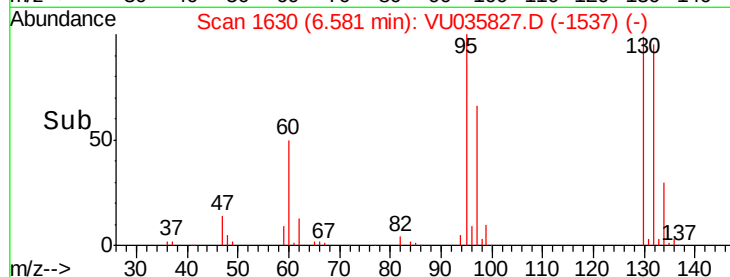
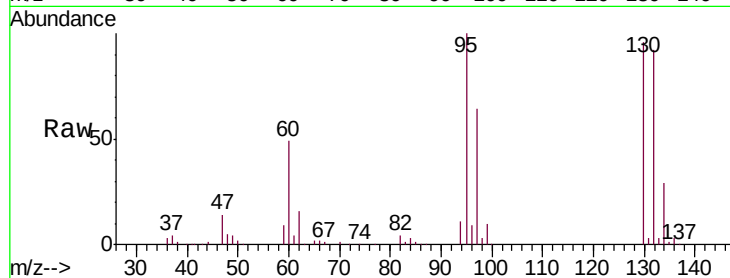
Ion Ratio Lower Upper

95 100

97 64.3 45.1 83.9

132 91.8 61.9 114.9

130 96.5 66.3 123.1

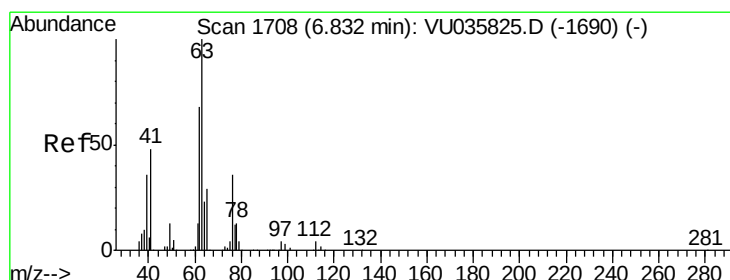
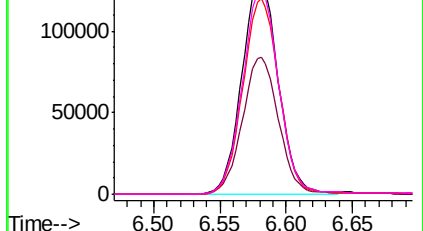


Abundance Ion 95.00 (94.70 to 95.70): VU035827.D (-1537) (-)

Ion 96.95 (96.65 to 97.65): VU035827.D (-1537) (-)

Ion 131.95 (131.65 to 132.65): VU035827.D (-1537) (-)

Ion 129.95 (129.65 to 130.65): VU035827.D (-1537) (-)



#37

1,2-Dichloropropane

Concen: 4.998 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. 0.00 min

Lab File: VU035827.D

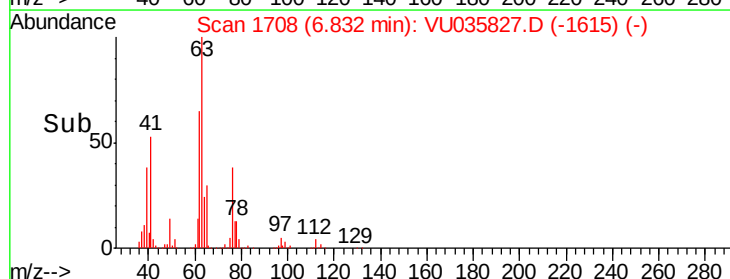
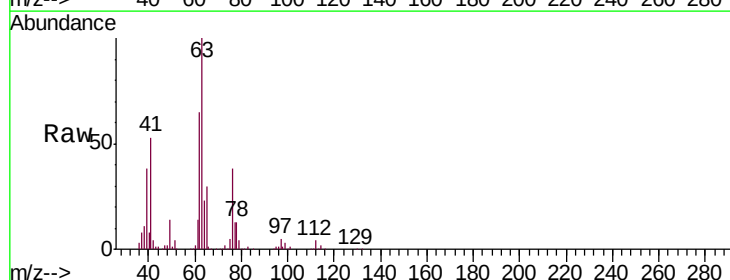
Acq: 25 Nov 2019 16:23

Tgt Ion: 63 Resp: 172018

Ion Ratio Lower Upper

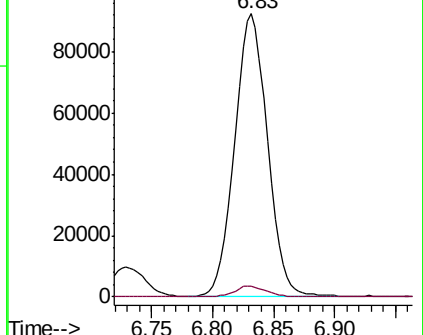
63 100

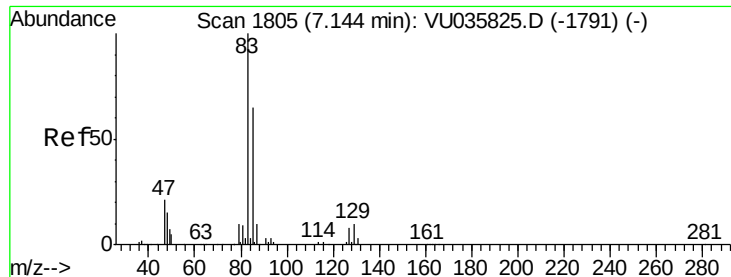
112 3.7 2.7 4.1



Abundance Ion 63.10 (62.80 to 63.80): VU035827.D (-1615) (-)

Ion 112.10 (111.80 to 112.80): VU035827.D (-1615) (-)

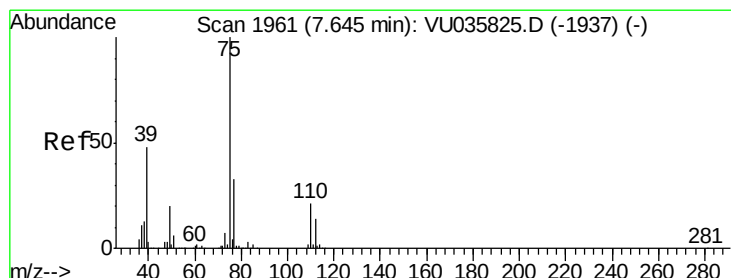
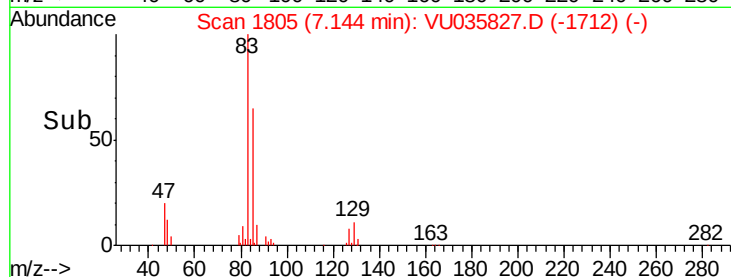
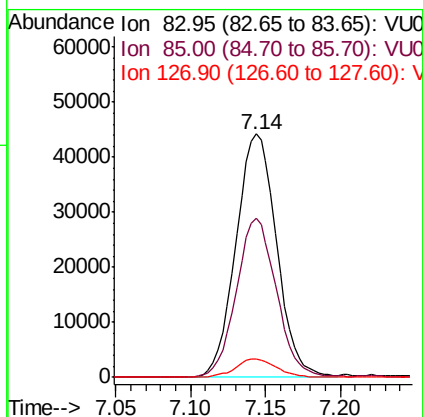
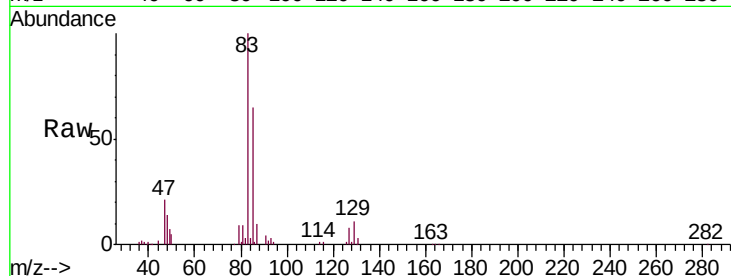




#38  
 Bromodichloromethane  
 Concen: 2.029 ug/L  
 RT: 7.14 min Scan# 1805  
 Delta R.T. 0.00 min  
 Lab File: VU035827.D  
 Acq: 25 Nov 2019 16:23

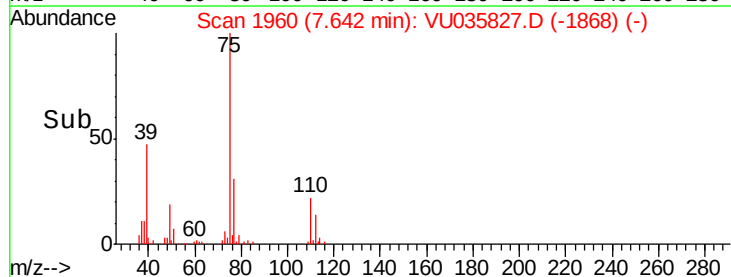
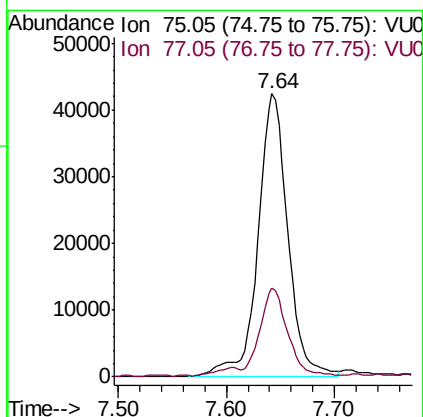
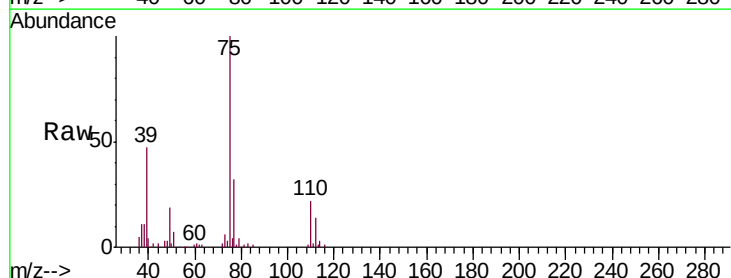
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GARF8

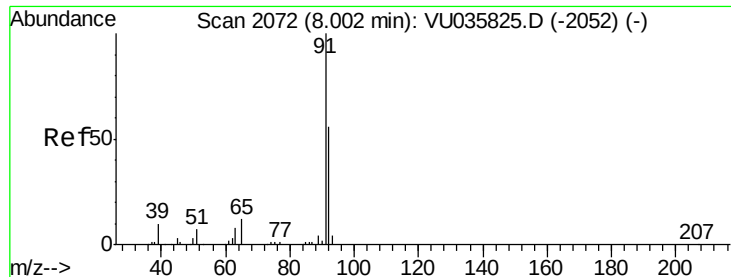
Tgt Ion: 83 Resp: 83719  
 Ion Ratio Lower Upper  
 83 100  
 85 65.2 45.6 84.8  
 127 7.5 6.0 9.0



#39  
 cis-1,3-Dichloropropene  
 Concen: 1.835 ug/L  
 RT: 7.64 min Scan# 1960  
 Delta R.T. -0.00 min  
 Lab File: VU035827.D  
 Acq: 25 Nov 2019 16:23

Tgt Ion: 75 Resp: 81755  
 Ion Ratio Lower Upper  
 75 100  
 77 31.6 22.1 41.1





#42

Toluene

Concen: 2.954 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. 0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

Instrument :

MSVOA\_U

ClientSampleId :

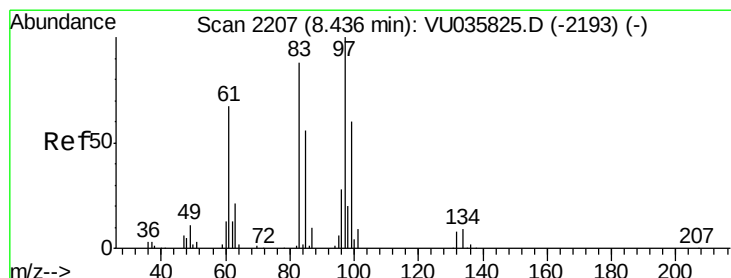
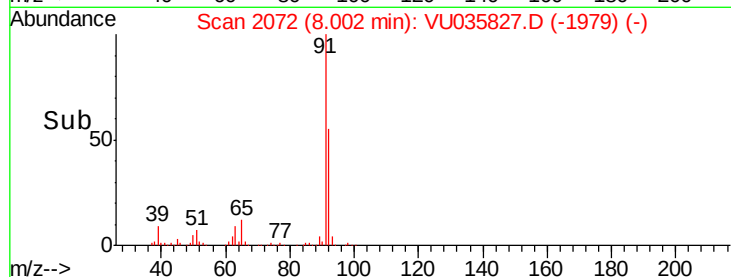
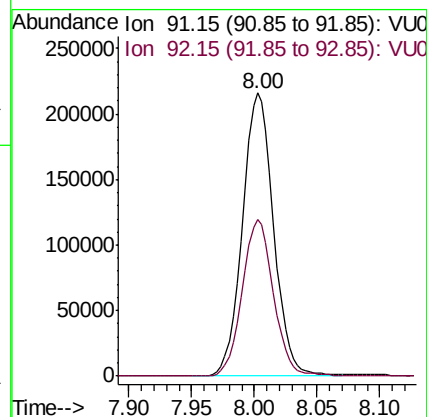
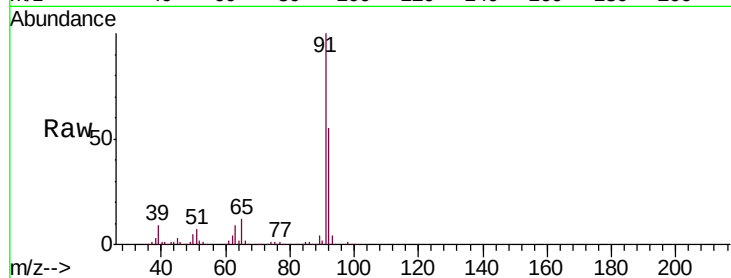
GARF8

Tgt Ion: 91 Resp: 372937

Ion Ratio Lower Upper

91 100

92 55.2 40.4 75.0



#45

1,1,2-Trichloroethane

Concen: 8.385 ug/L

RT: 8.43 min Scan# 2206

Delta R.T. -0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

Tgt Ion: 97 Resp: 188063

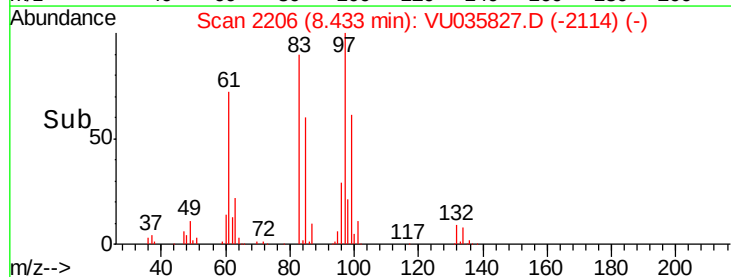
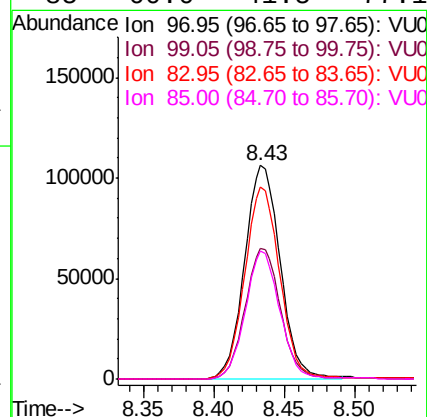
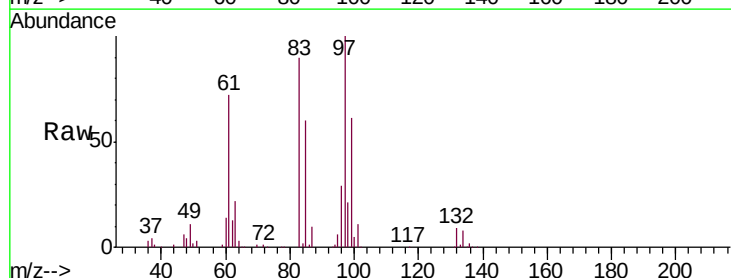
Ion Ratio Lower Upper

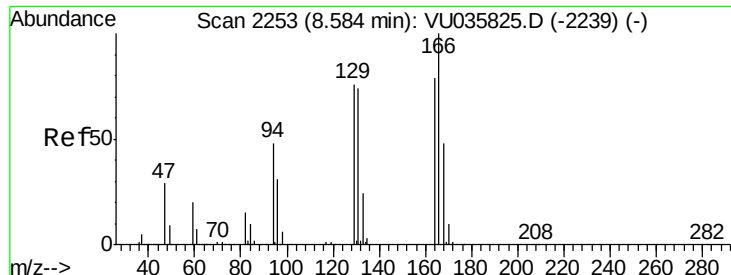
97 100

99 61.0 44.2 82.0

83 89.9 62.2 115.6

85 60.0 41.5 77.1





#47

Tetrachloroethene

Concen: 5.250 ug/L

RT: 8.58 min Scan# 2253

Delta R.T. 0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

Instrument :

MSVOA\_U

ClientSampleId :

GARF8

Tgt Ion:164 Resp: 118866

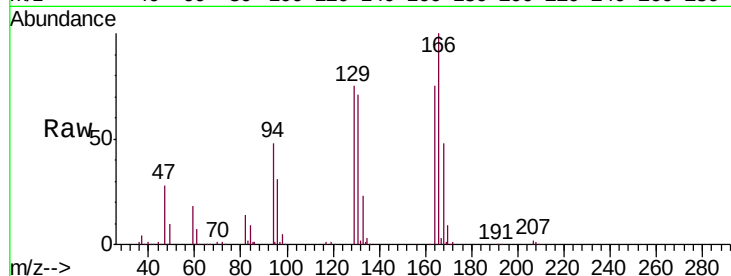
Ion Ratio Lower Upper

164 100

129 99.3 68.8 127.8

131 95.1 67.3 124.9

166 133.1 91.6 170.2

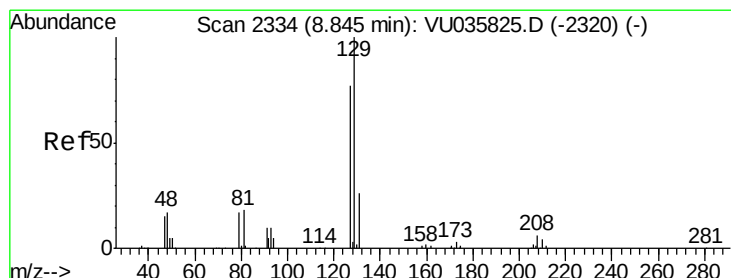
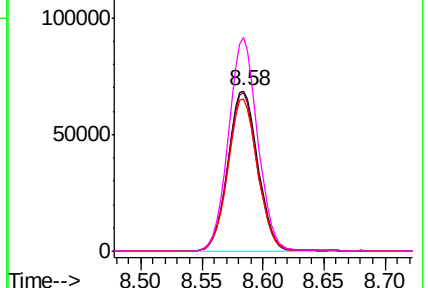
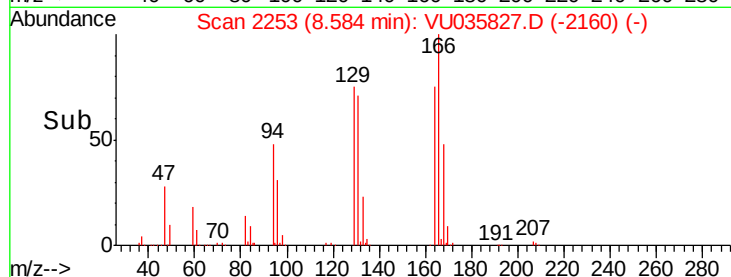


Abundance Ion 163.90 (163.60 to 164.60): V

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



#49

Dibromochloromethane

Concen: 5.952 ug/L

RT: 8.84 min Scan# 2333

Delta R.T. -0.00 min

Lab File: VU035827.D

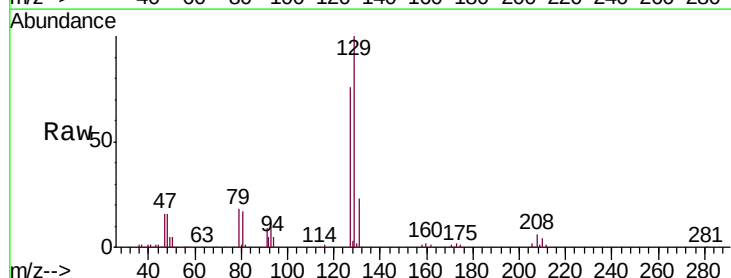
Acq: 25 Nov 2019 16:23

Tgt Ion:129 Resp: 157488

Ion Ratio Lower Upper

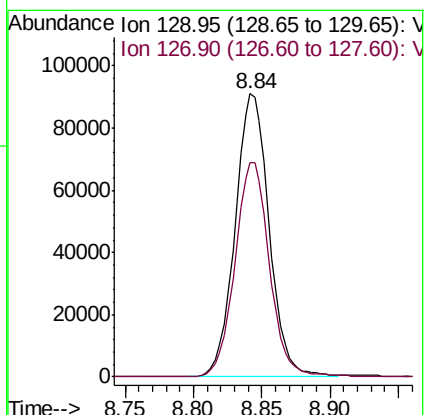
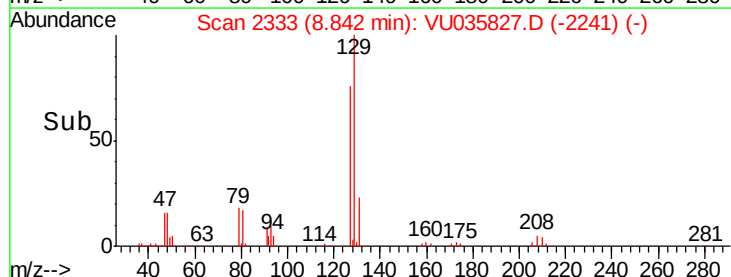
129 100

127 75.9 53.1 98.5

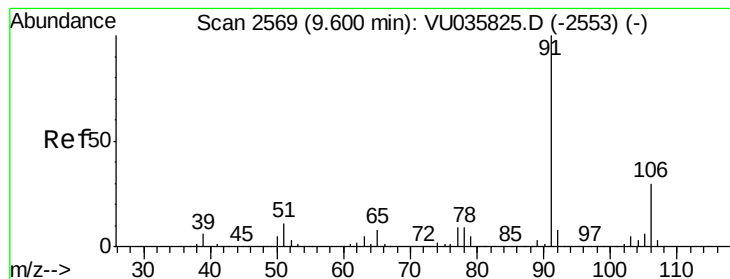


Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V







#52

Ethylbenzene

Concen: 10.275 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. 0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

Instrument :

MSVOA\_U

ClientSampleId :

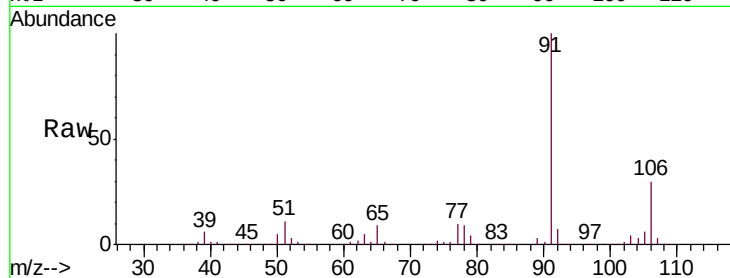
GARF8

Tgt Ion: 91 Resp: 1341258

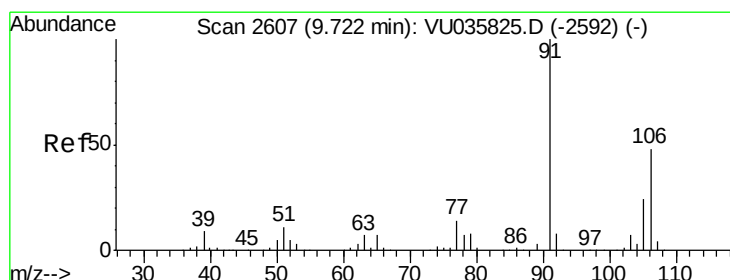
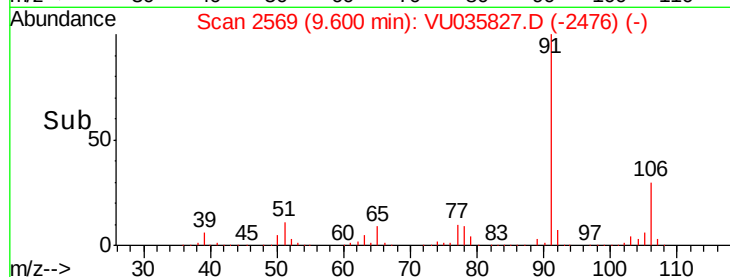
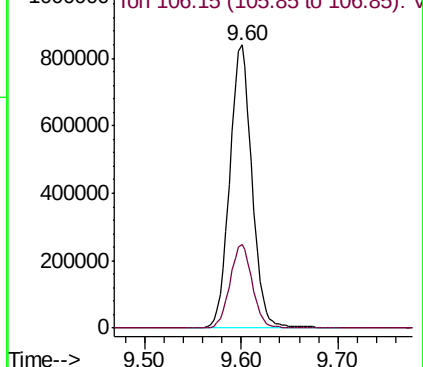
Ion Ratio Lower Upper

91 100

106 29.5 21.2 39.4



Abundance Ion 91.15 (90.85 to 91.85): VU035827.D (-2553) (-)



#53

m,p-Xylene

Concen: 8.690 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.12 min

Lab File: VU035827.D

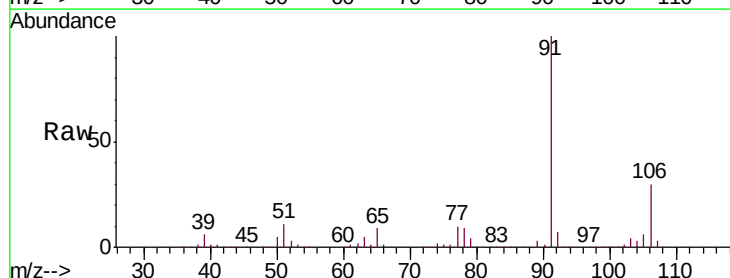
Acq: 25 Nov 2019 16:23

Tgt Ion: 106 Resp: 399929

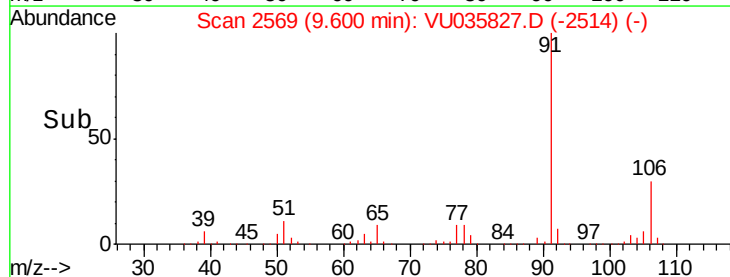
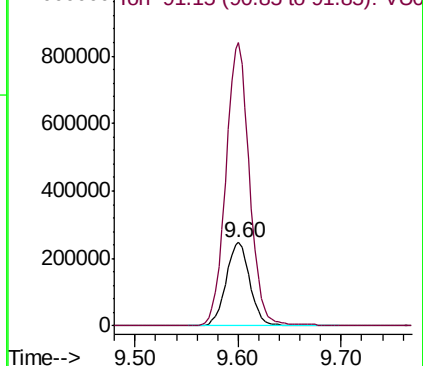
Ion Ratio Lower Upper

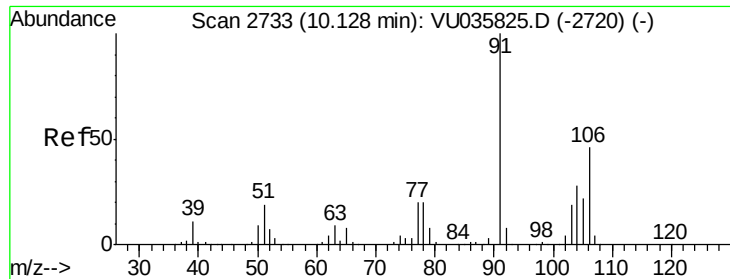
106 100

91 338.5 149.9 278.5#



Abundance Ion 106.15 (105.85 to 106.85): VU035827.D (-2592) (-)

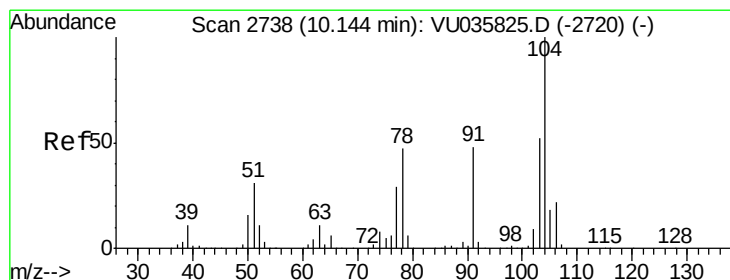
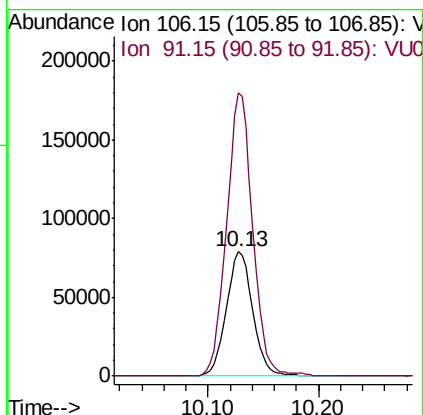
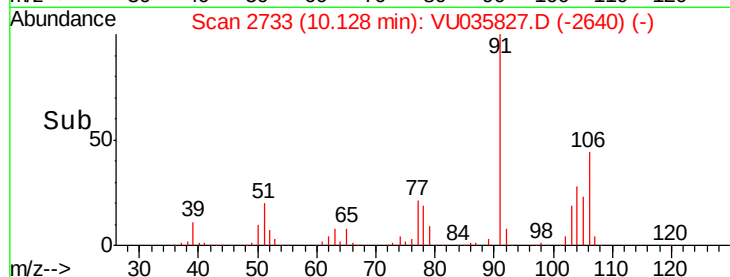
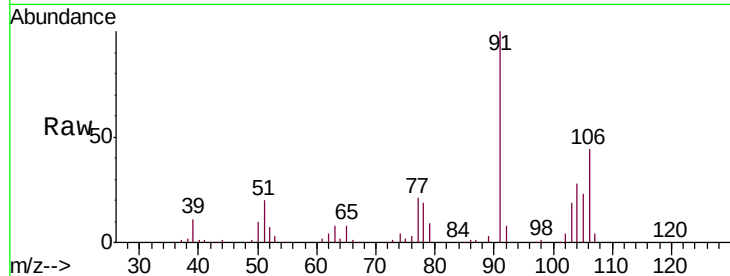




#54  
o-Xylene  
Concen: 2.945 ug/L  
RT: 10.13 min Scan# 2733  
Delta R.T. 0.00 min  
Lab File: VU035827.D  
Acq: 25 Nov 2019 16:23

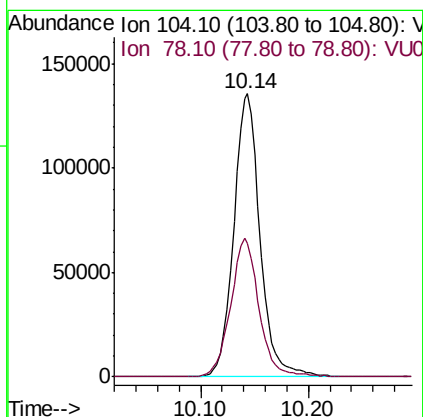
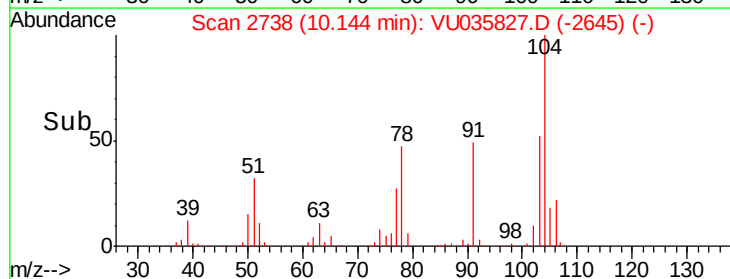
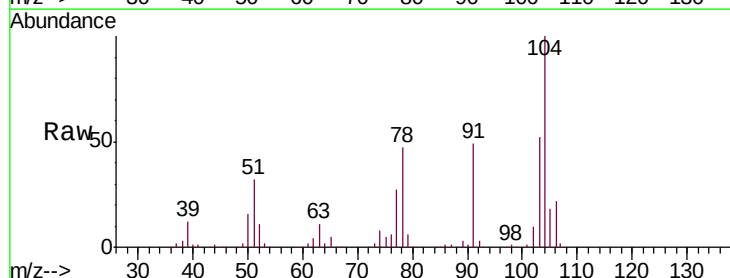
Instrument :  
MSVOA\_U  
ClientSampled :  
GARF8

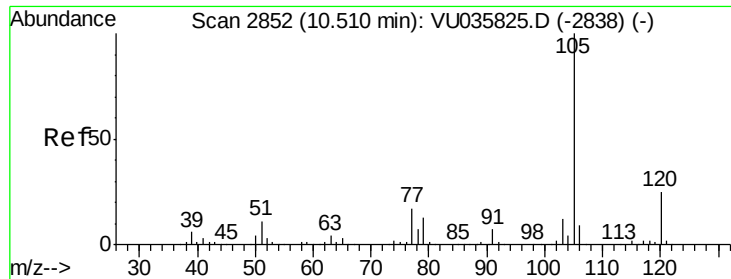
Tgt Ion:106 Resp: 131643  
Ion Ratio Lower Upper  
106 100  
91 227.8 153.6 285.2



#55  
Styrene  
Concen: 3.113 ug/L  
RT: 10.14 min Scan# 2738  
Delta R.T. 0.00 min  
Lab File: VU035827.D  
Acq: 25 Nov 2019 16:23

Tgt Ion:104 Resp: 230822  
Ion Ratio Lower Upper  
104 100  
78 47.2 33.9 62.9





#56

Isopropylbenzene

Concen: 7.557 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

Instrument :

MSVOA\_U

ClientSampleId :

GARF8

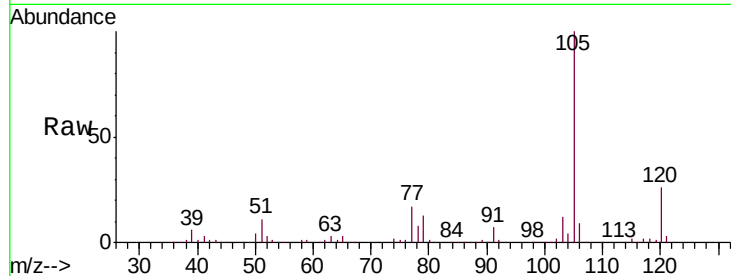
Tgt Ion: 105 Resp: 892316

Ion Ratio Lower Upper

105 100

120 25.6 20.2 30.2

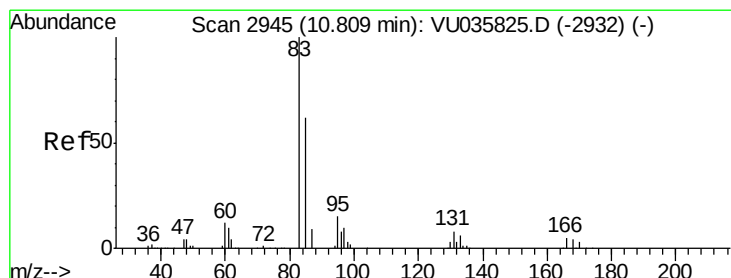
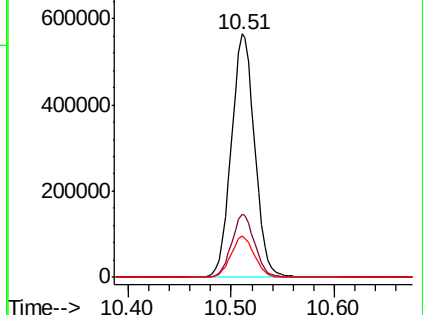
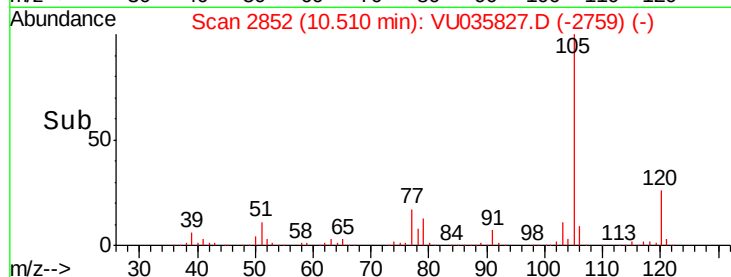
77 17.0 13.7 20.5



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: 4.810 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

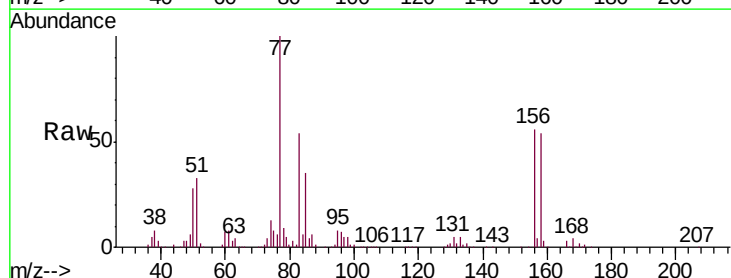
Tgt Ion: 83 Resp: 149275

Ion Ratio Lower Upper

83 100

85 65.0 44.6 82.8

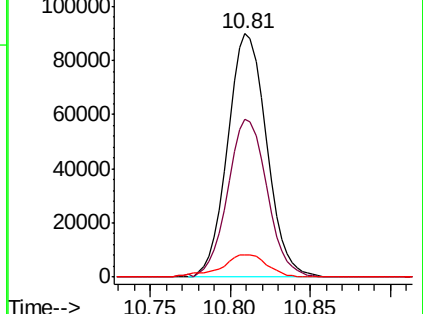
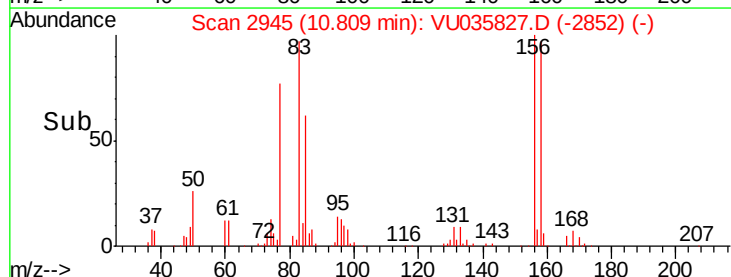
131 9.4 6.9 10.3

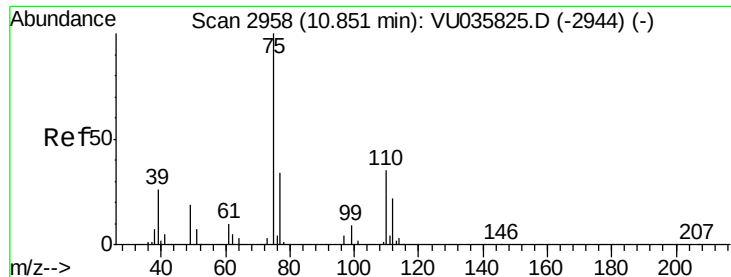


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 1.002 ug/L

RT: 10.81 min Scan# 2946

Delta R.T. -0.04 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

Instrument :

MSVOA\_U

ClientSampleId :

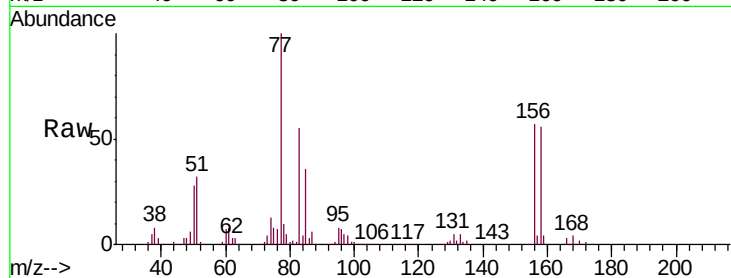
GARF8

Tgt Ion: 75 Resp: 22420

Ion Ratio Lower Upper

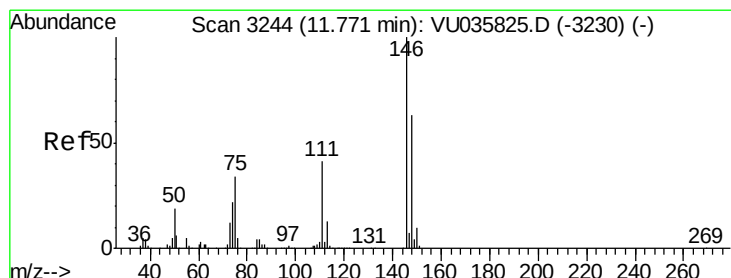
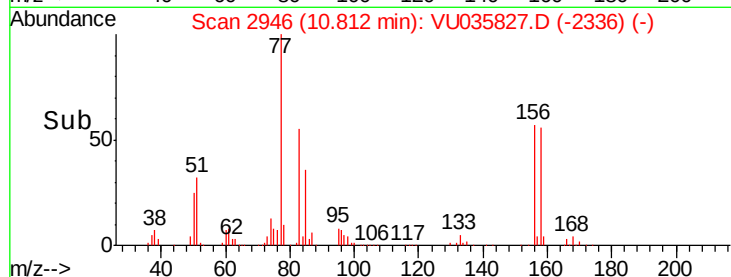
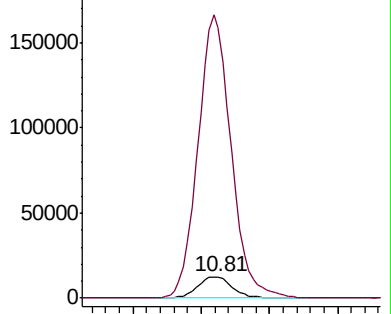
75 100

77 1251.1 25.4 38.2#



Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#62

1,3-Dichlorobenzene

Concen: 2.028 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. 0.00 min

Lab File: VU035827.D

Acq: 25 Nov 2019 16:23

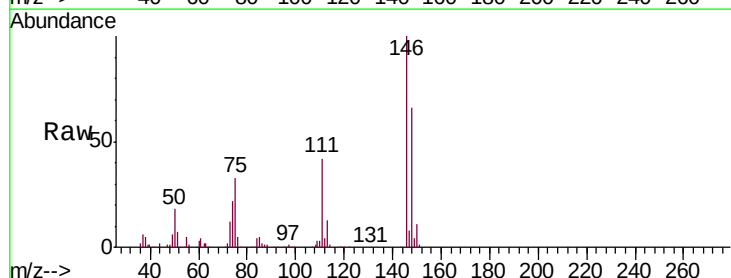
Tgt Ion: 146 Resp: 114667

Ion Ratio Lower Upper

146 100

111 42.3 29.5 54.7

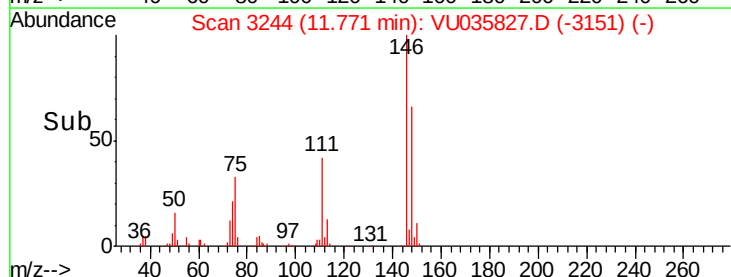
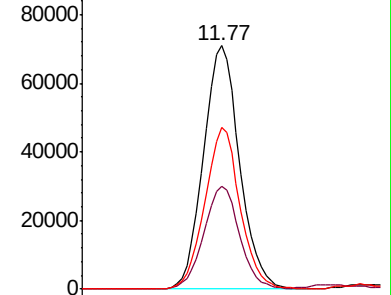
148 66.2 44.1 81.9

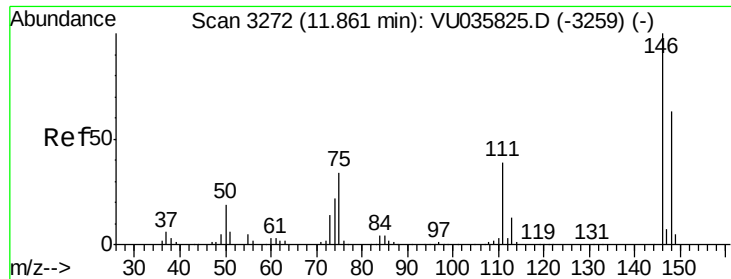


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

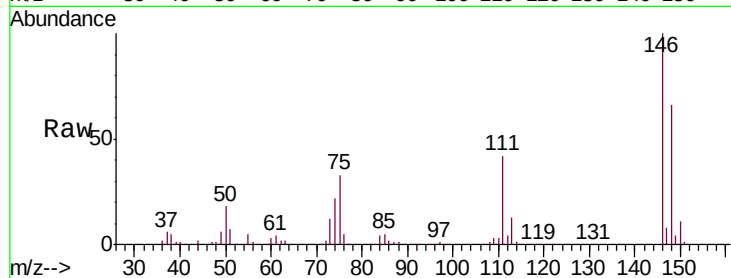




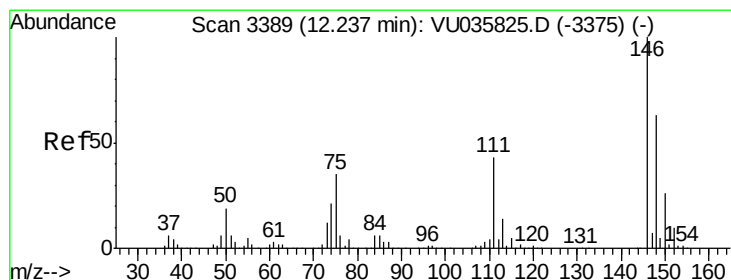
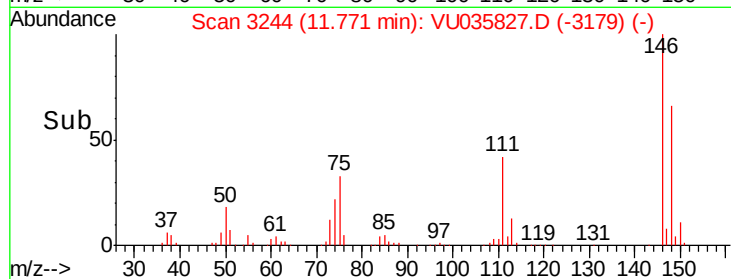
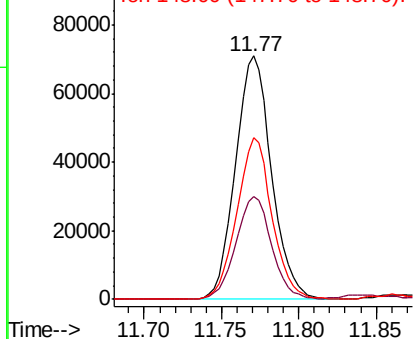
#63  
 1,4-Dichlorobenzene  
 Concen: 2.060 ug/L  
 RT: 11.77 min Scan# 3244  
 Delta R.T. -0.09 min  
 Lab File: VU035827.D  
 Acq: 25 Nov 2019 16:23

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GARF8

Tgt Ion:146 Resp: 114667  
 Ion Ratio Lower Upper  
 146 100  
 111 42.3 27.9 51.7  
 148 66.2 44.2 82.2

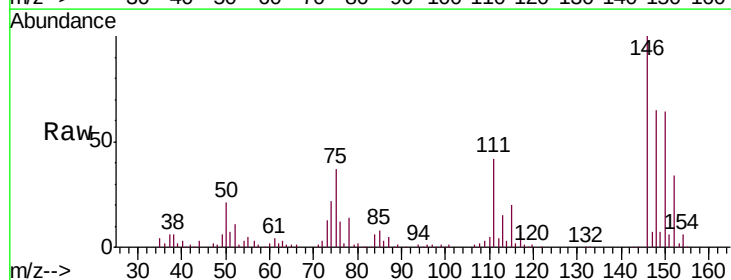


Abundance Ion 145.95 (145.65 to 146.65): V  
 Ion 111.00 (110.70 to 111.70): V  
 Ion 148.00 (147.70 to 148.70): V



#65  
 1,2-Dichlorobenzene  
 Concen: 1.986 ug/L  
 RT: 12.24 min Scan# 3389  
 Delta R.T. 0.00 min  
 Lab File: VU035827.D  
 Acq: 25 Nov 2019 16:23

Tgt Ion:146 Resp: 107157  
 Ion Ratio Lower Upper  
 146 100  
 111 42.4 35.4 53.0  
 148 64.6 50.8 76.2



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

