

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110620\  
 Data File : VX019281.D  
 Acq On : 04 Nov 2020 20:04  
 Operator : JC/MD  
 Sample : L4616-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FA20-GMZ5-RB1

Quant Time: Nov 05 02:25:52 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102720W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 27 13:55:07 2020  
 Response via : Initial Calibration

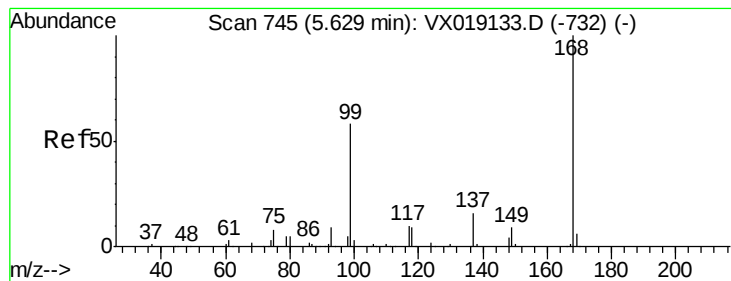
| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 271969   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 483914   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 454465   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 224536   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 191010   | 54.46 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.92% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 150593   | 49.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.08%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 601355   | 52.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.96% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 224574   | 51.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.50% |          |

| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.31  | 50   | 1564     | 0.617  | ug/l # | 88     |
| 10) Methyl Iodide              | 2.50  | 142  | 254      | 6.452  | ug/l # | 54     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 597      | 0.862  | ug/l # | 72     |
| 13) Acrolein                   | 2.27  | 56   | 62       | 5.844  | ug/l # | 79     |
| 14) Allyl chloride             | 2.71  | 41   | 860      | 0.215  | ug/l # | 23     |
| 16) Acetone                    | 2.43  | 43   | 8842     | 7.308  | ug/l   | 98     |
| 17) Carbon Disulfide           | 2.55  | 76   | 871      | 0.874  | ug/l # | 75     |
| 18) Methyl Acetate             | 2.74  | 43   | 646      | 0.220  | ug/l # | 64     |
| 20) Methylene Chloride         | 2.83  | 84   | 1287     | 0.424  | ug/l # | 88     |
| 25) 2-Butanone                 | 4.65  | 43   | 2050     | 1.075  | ug/l   | 93     |
| 31) Cyclohexane                | 5.63  | 56   | 6412     | 1.446  | ug/l # | 15     |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 22115    | 4.949  | ug/l # | 50     |
| 37) Ethyl Acetate              | 4.80  | 43   | 7096     | 1.710  | ug/l   | 98     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 28570    | 6.272  | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 115491   | 24.911 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 115491   | 65.590 | ug/l # | 12     |

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

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Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 9 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX019281.D

Acq: 04 Nov 2020 20:04

Instrument :

MSVOA\_X

ClientSampleId :

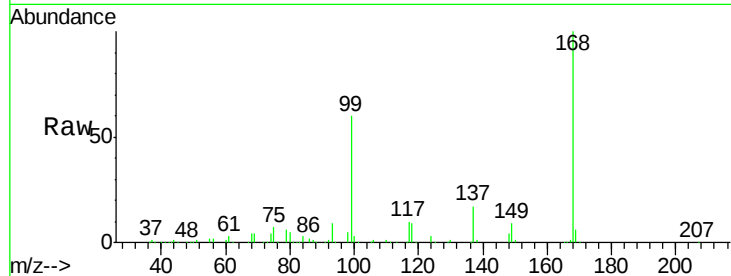
FA20-GMZ5-RB1

Tot Ion:168 Resp: 271969

Ion Ratio Lower Upper

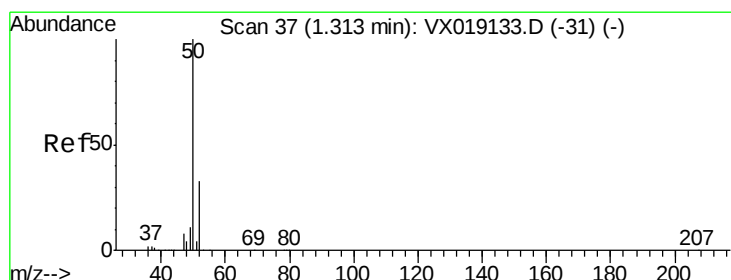
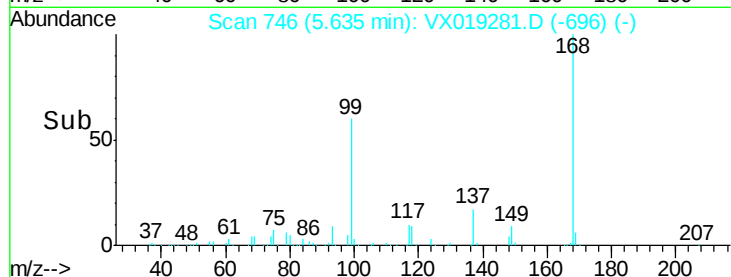
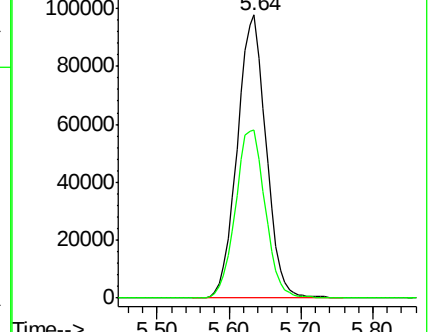
168 100

99 59.6 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.617 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX019281.D

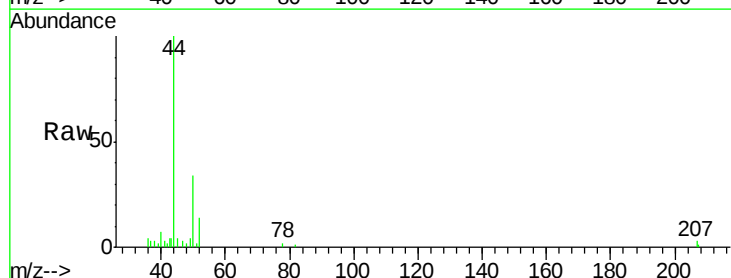
Acq: 04 Nov 2020 20:04

Tgt Ion: 50 Resp: 1564

Ion Ratio Lower Upper

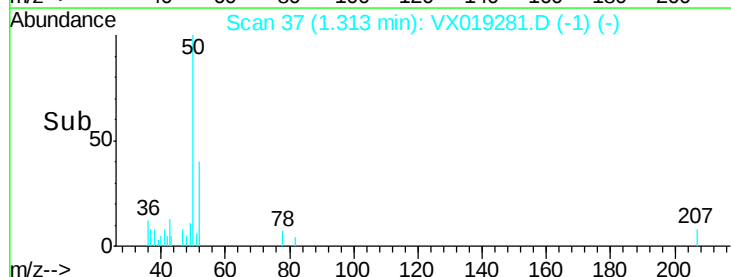
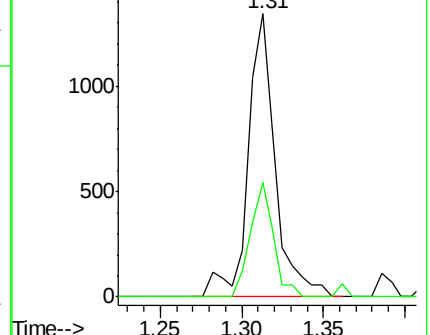
50 100

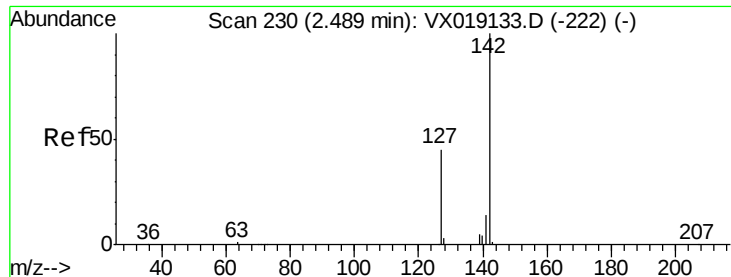
52 40.4 26.8 40.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

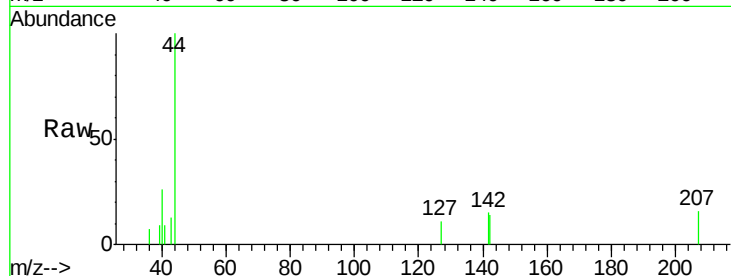




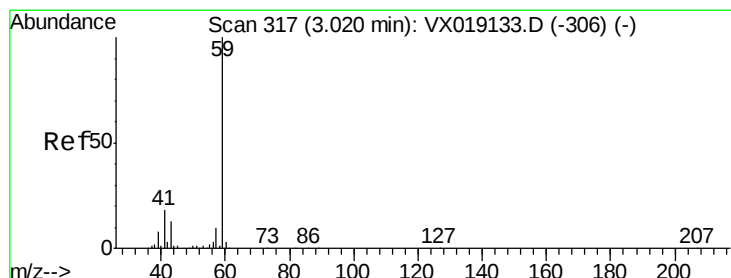
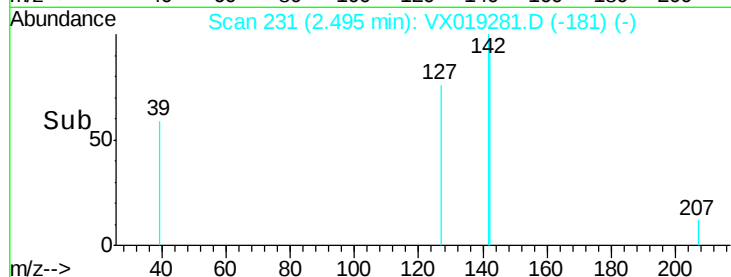
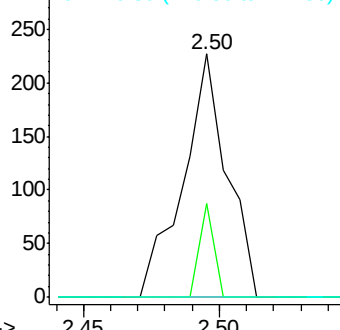
#10  
Methvl Iodide  
Concen: 6.452 ug/l  
RT: 2.50 min Scan# 231  
Delta R.T. 0.01 min  
Lab File: VX019281.D  
Acq: 04 Nov 2020 20:04

Instrument :  
MSVOA\_X  
ClientSampleId :  
FA20-GMZ5-RB1

Tot Ion:142 Resp: 254  
Ion Ratio Lower Upper  
142 100  
127 12.6 36.1 54.1#  
141 0.0 11.3 16.9#

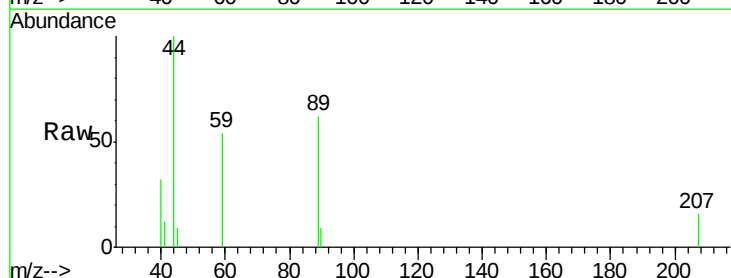


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

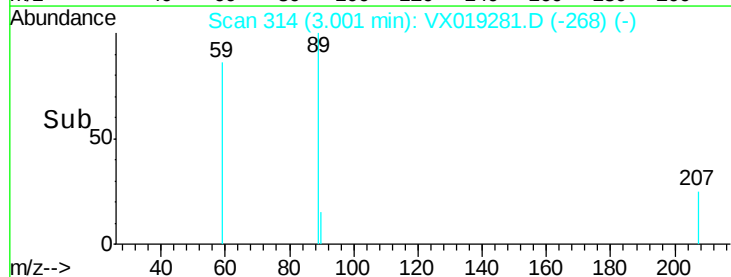
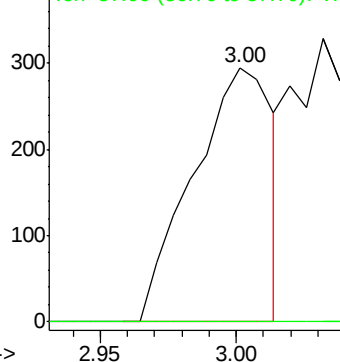


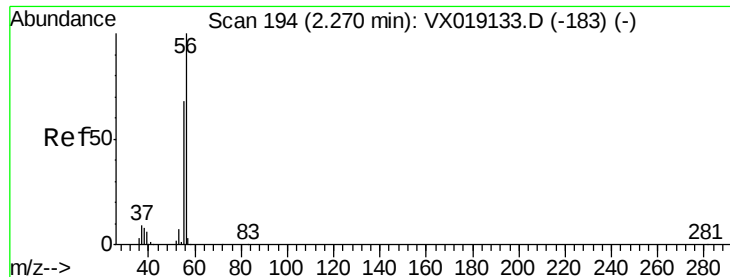
#11  
Tert butyl alcohol  
Concen: 0.862 ug/l  
RT: 3.00 min Scan# 314  
Delta R.T. -0.02 min  
Lab File: VX019281.D  
Acq: 04 Nov 2020 20:04

Tgt Ion: 59 Resp: 597  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 5.844 ug/l

RT: 2.27 min Scan# 194

Delta R.T. 0.00 min

Lab File: VX019281.D

Acq: 04 Nov 2020 20:04

Instrument :

MSVOA\_X

ClientSampleId :

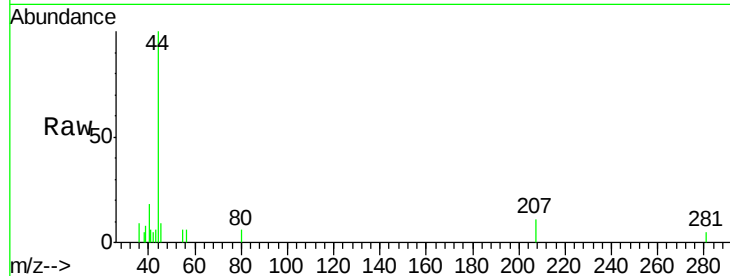
FA20-GMZ5-RB1

Tot Ion: 56 Resp: 62

Ion Ratio Lower Upper

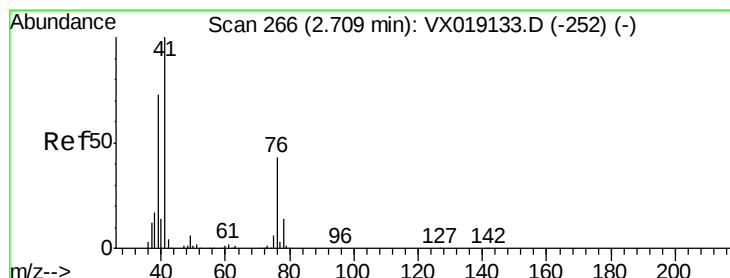
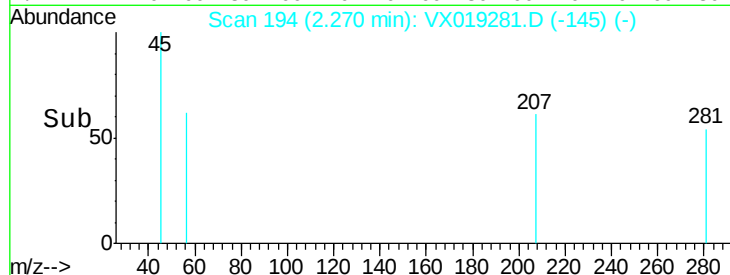
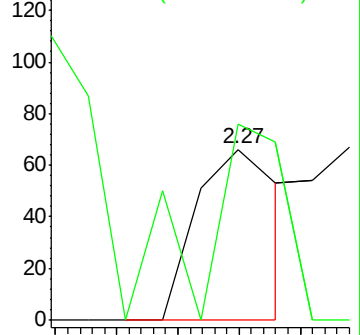
56 100

55 85.5 54.7 82.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Allyl chloride

Concen: 0.215 ug/l

RT: 2.71 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX019281.D

Acq: 04 Nov 2020 20:04

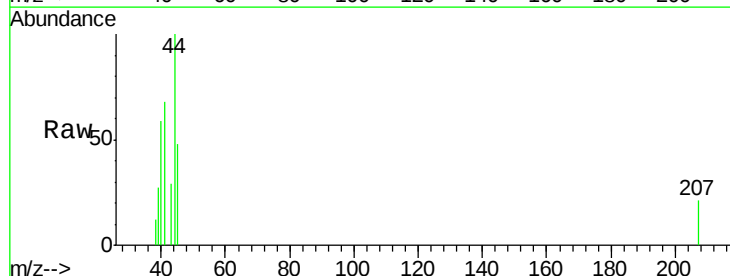
Tgt Ion: 41 Resp: 860

Ion Ratio Lower Upper

41 100

39 0.0 55.2 82.8#

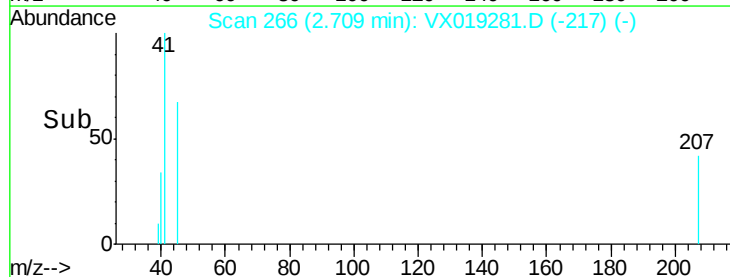
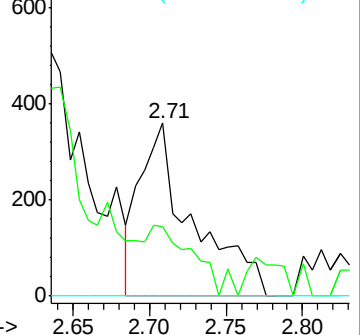
76 0.0 31.5 47.3#

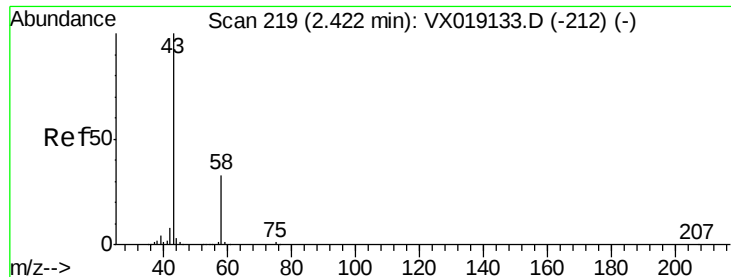


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0





#16

Acetone

Concen: 7.308 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX019281.D

Acq: 04 Nov 2020 20:04

Instrument :

MSVOA\_X

ClientSampleId :

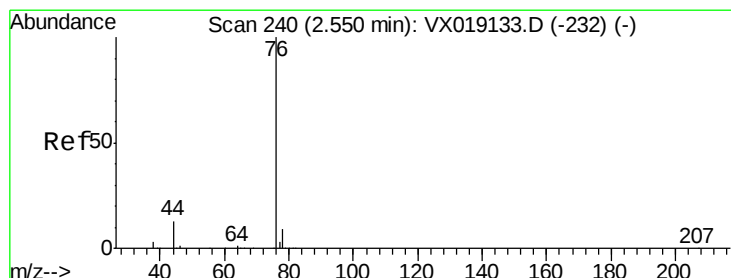
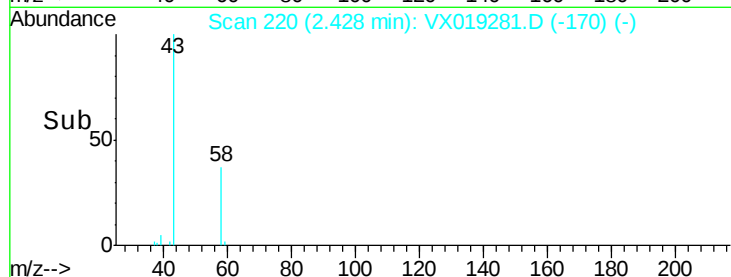
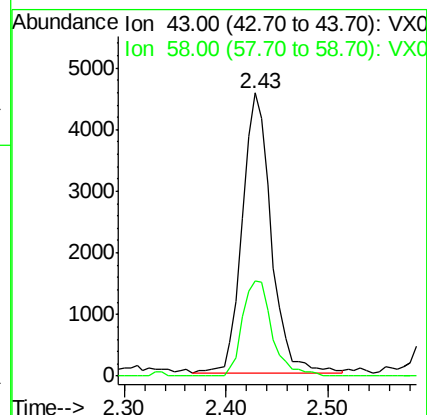
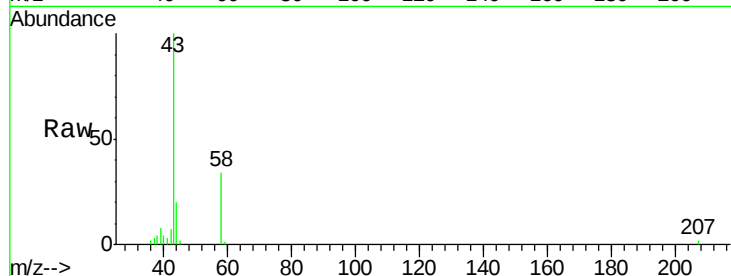
FA20-GMZ5-RB1

Tot Ion: 43 Resp: 8842

Ion Ratio Lower Upper

43 100

58 34.0 26.3 39.5



#17

Carbon Disulfide

Concen: 0.874 ug/l

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX019281.D

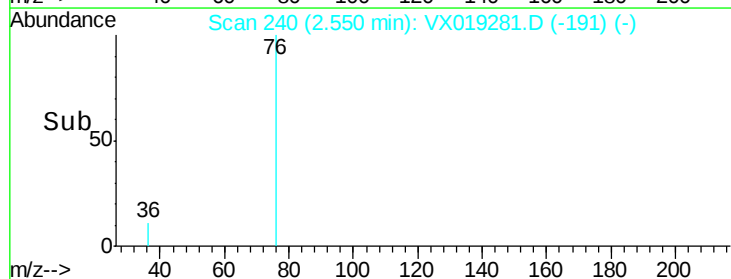
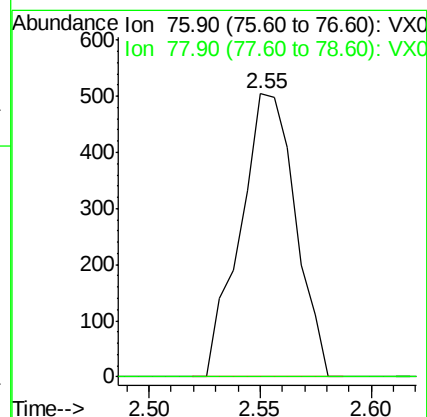
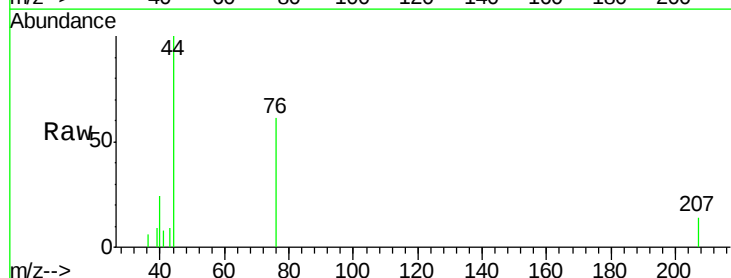
Acq: 04 Nov 2020 20:04

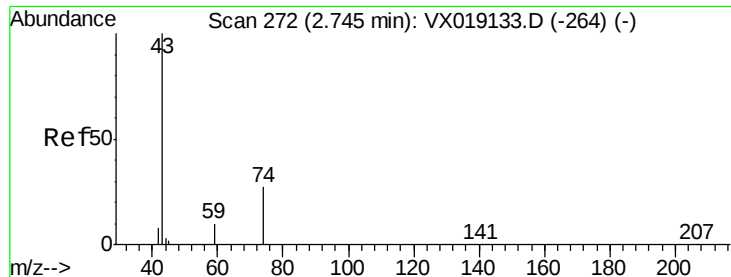
Tgt Ion: 76 Resp: 871

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#

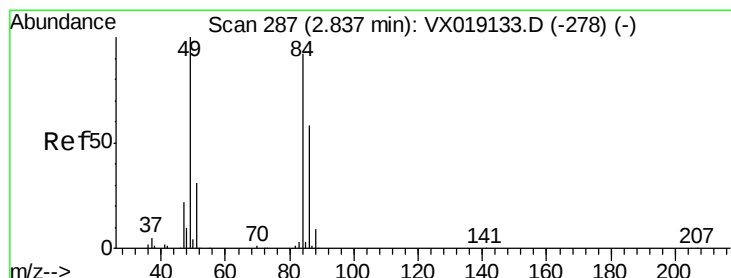
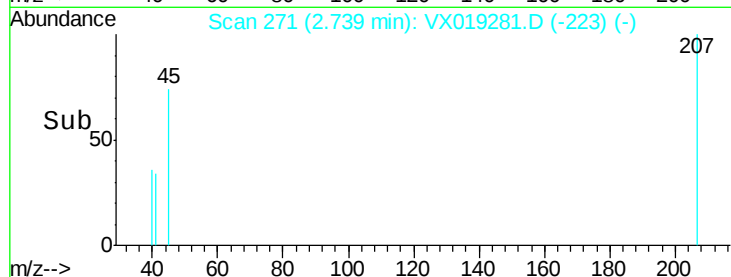
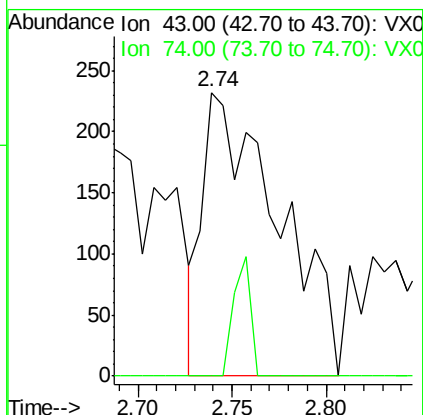
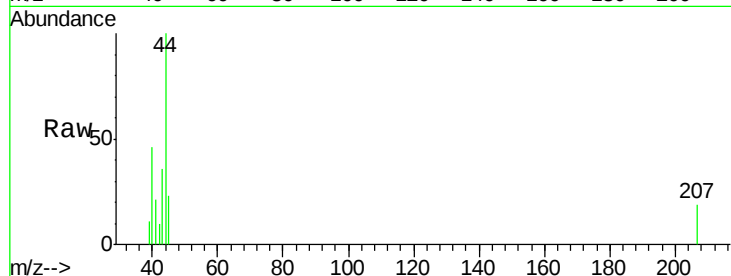




#18  
Methyl Acetate  
Concen: 0.220 ug/l  
RT: 2.74 min Scan# 271  
Delta R.T. -0.01 min  
Lab File: VX019281.D  
Acq: 04 Nov 2020 20:04

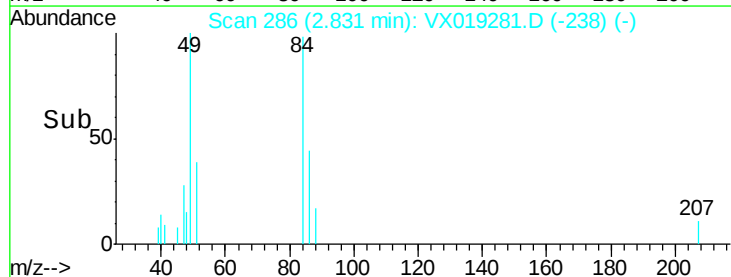
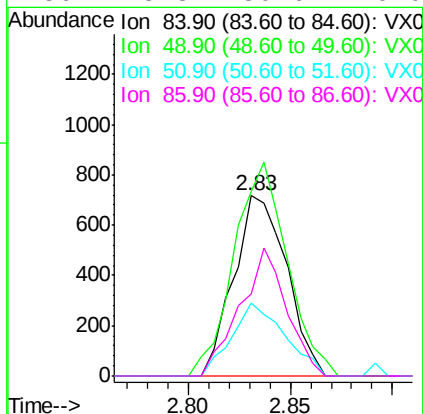
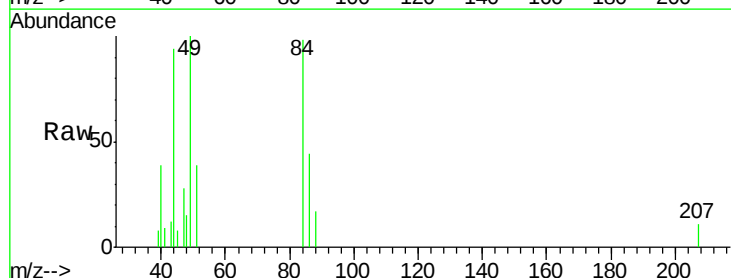
Instrument :  
MSVOA\_X  
ClientSampled :  
FA20-GMZ5-RB1

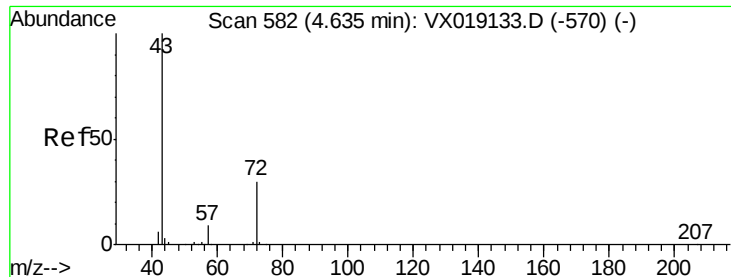
Tot Ion: 43 Resp: 646  
Ion Ratio Lower Upper  
43 100  
74 9.4 22.6 33.8#



#20  
Methylene Chloride  
Concen: 0.424 ug/l  
RT: 2.83 min Scan# 286  
Delta R.T. -0.01 min  
Lab File: VX019281.D  
Acq: 04 Nov 2020 20:04

Tgt Ion: 84 Resp: 1287  
Ion Ratio Lower Upper  
84 100  
49 102.2 86.8 130.2  
51 40.4 27.3 40.9  
86 45.3 50.6 76.0#





#25

2-Butanone

Concen: 1.075 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX019281.D

Acq: 04 Nov 2020 20:04

Instrument :

MSVOA\_X

ClientSampleId :

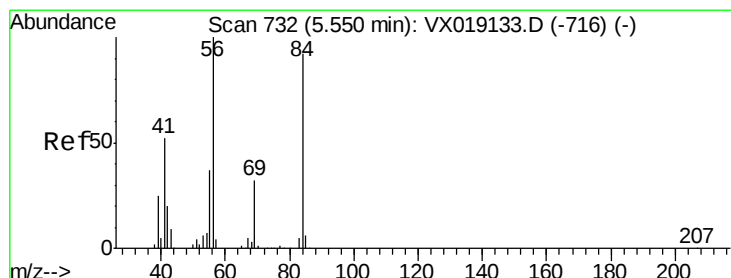
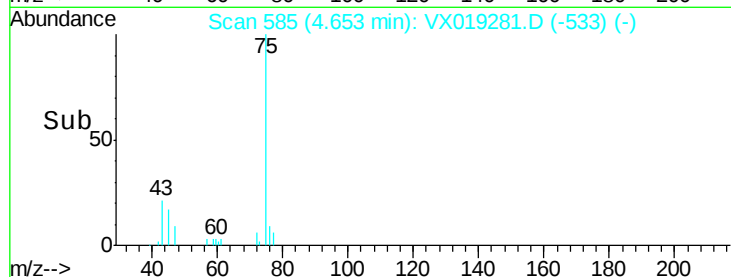
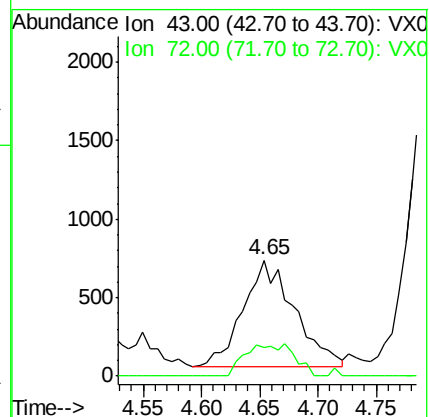
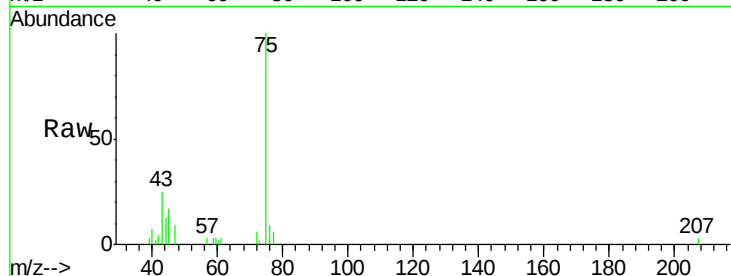
FA20-GMZ5-RB1

Tot Ion: 43 Resp: 2050

Ion Ratio Lower Upper

43 100

72 26.7 24.6 36.8



#31

Cyclohexane

Concen: 1.446 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX019281.D

Acq: 04 Nov 2020 20:04

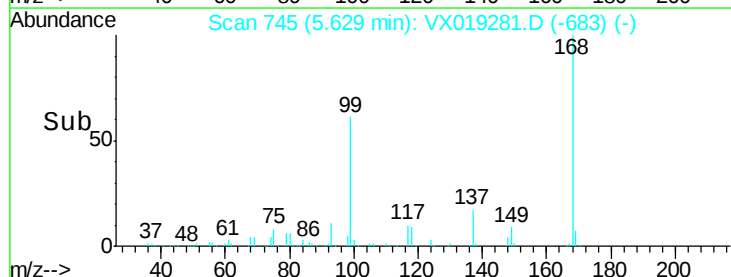
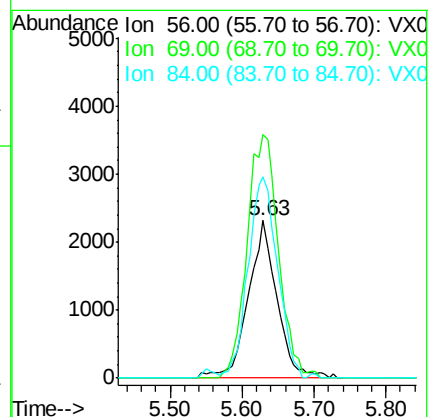
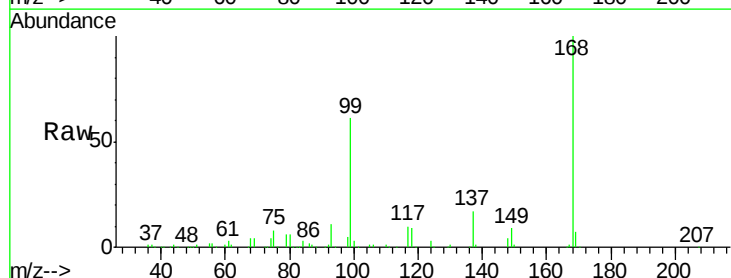
Tgt Ion: 56 Resp: 6412

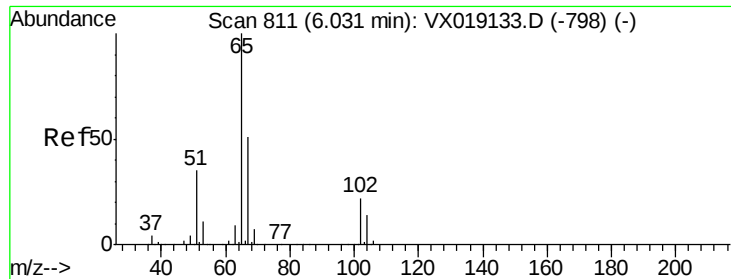
Ion Ratio Lower Upper

56 100

69 154.5 25.9 38.9#

84 127.9 73.4 110.2#





#33

1,2-Dichloroethane-d4

Concen: 54.460 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX019281.D

Acq: 04 Nov 2020 20:04

Instrument :

MSVOA\_X

ClientSampleId :

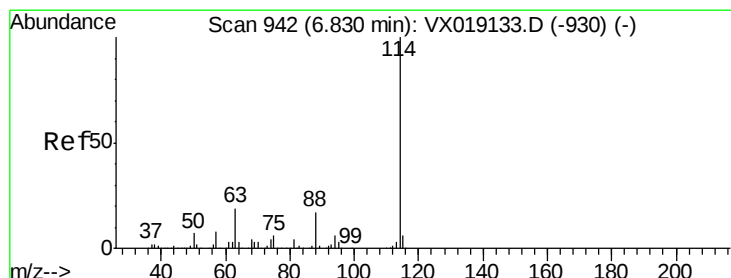
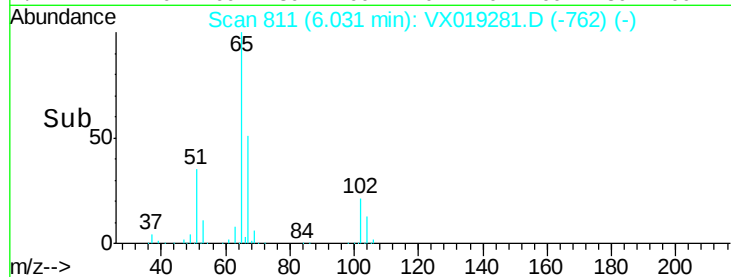
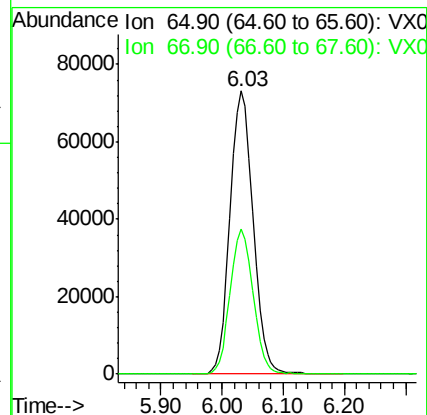
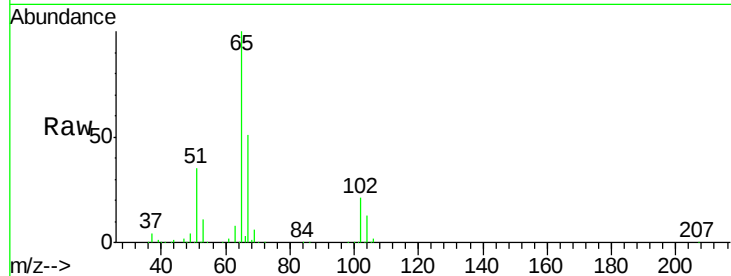
FA20-GMZ5-RB1

Tot Ion: 65 Resp: 191010

Ion Ratio Lower Upper

65 100

67 50.9 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX019281.D

Acq: 04 Nov 2020 20:04

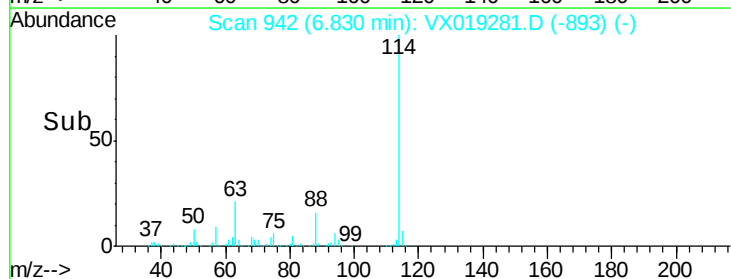
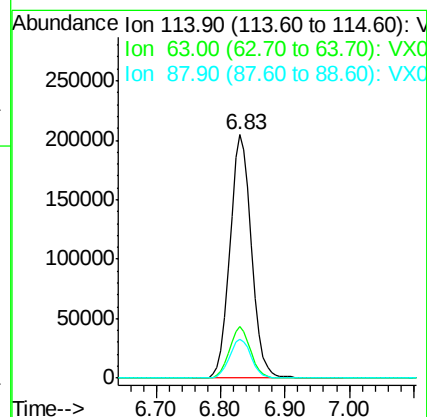
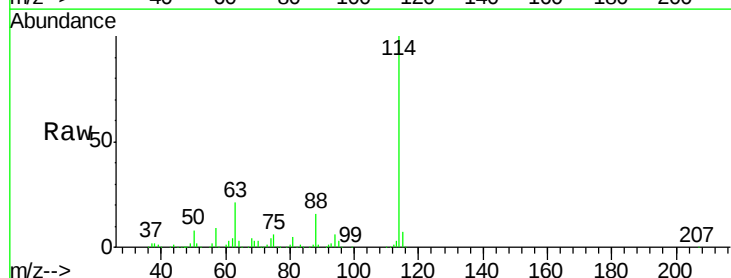
Tgt Ion: 114 Resp: 483914

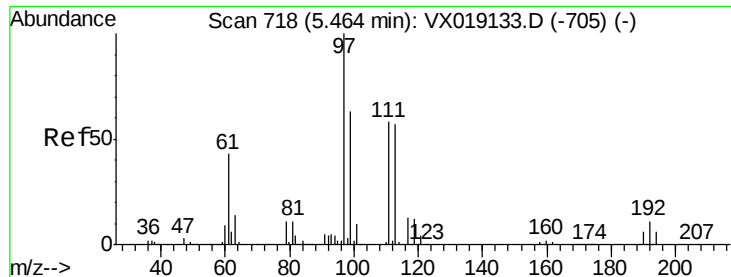
Ion Ratio Lower Upper

114 100

63 21.2 0.0 38.8

88 16.2 0.0 34.2





#35

Dibromofluoromethane

Concen: 49.543 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX019281.D

Acq: 04 Nov 2020 20:04

Instrument :

MSVOA\_X

ClientSampled :

FA20-GMZ5-RB1

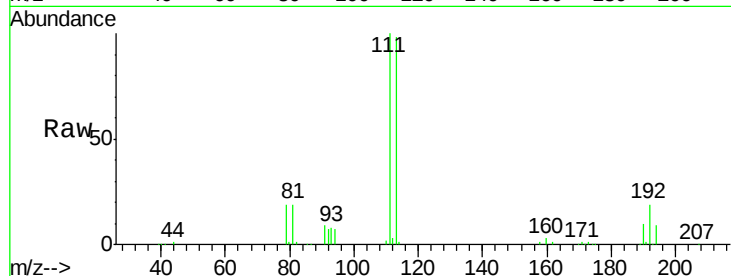
Tot Ion:113 Resp: 150593

Ion Ratio Lower Upper

113 100

111 101.8 82.3 123.5

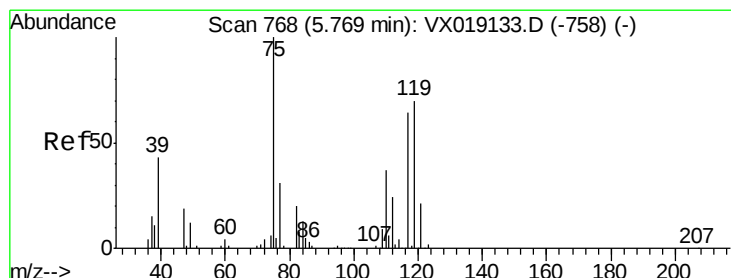
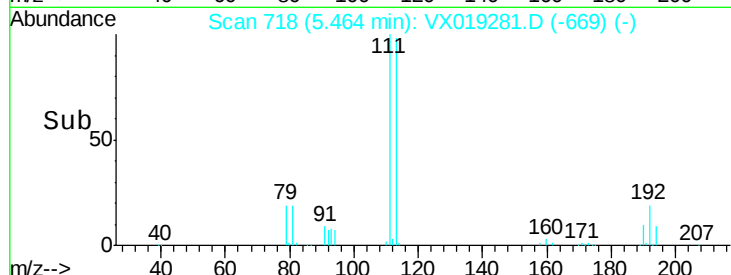
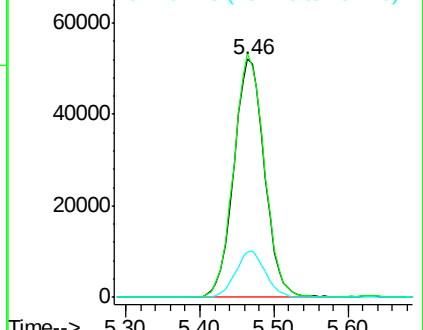
192 19.1 16.2 24.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.949 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX019281.D

Acq: 04 Nov 2020 20:04

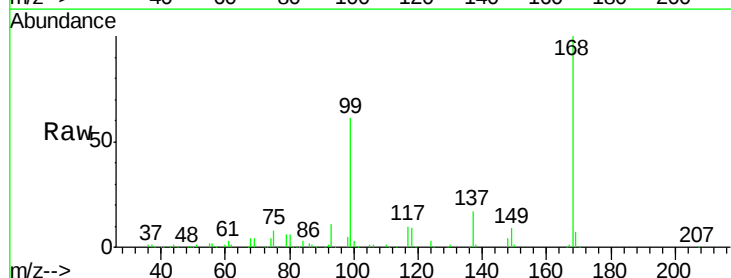
Tgt Ion: 75 Resp: 22115

Ion Ratio Lower Upper

75 100

110 10.2 18.3 54.9#

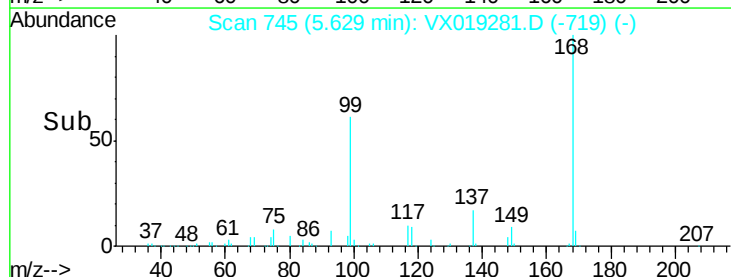
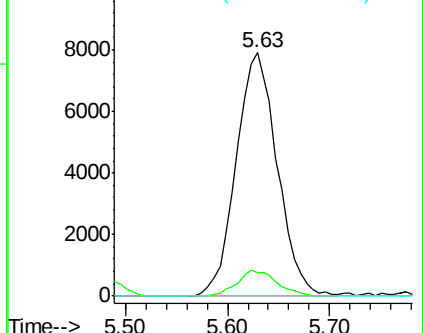
77 0.0 24.9 37.3#

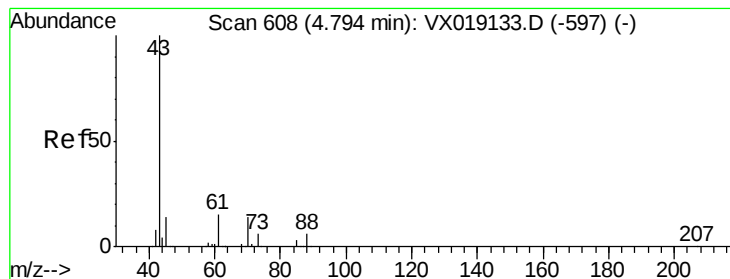


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 1.710 ug/l

RT: 4.80 min Scan# 609

Delta R.T. 0.01 min

Lab File: VX019281.D

Acq: 04 Nov 2020 20:04

Instrument :

MSVOA\_X

ClientSampleId :

FA20-GMZ5-RB1

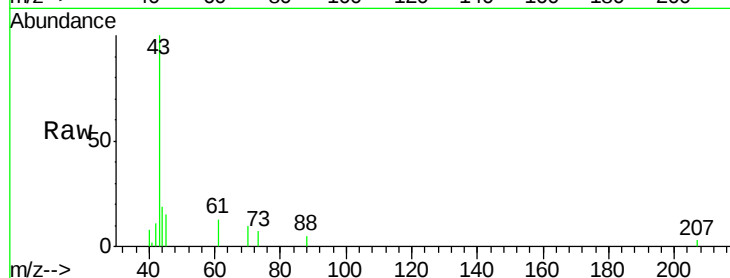
Tot Ion: 43 Resp: 7096

Ion Ratio Lower Upper

43 100

61 15.2 12.5 18.7

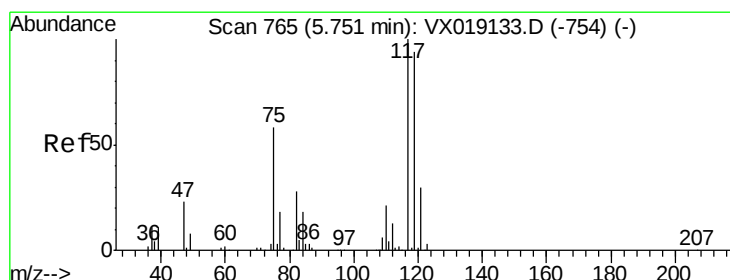
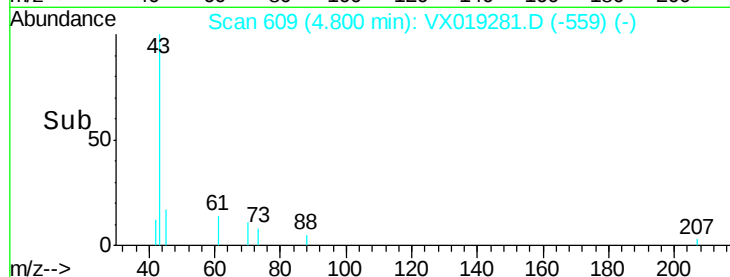
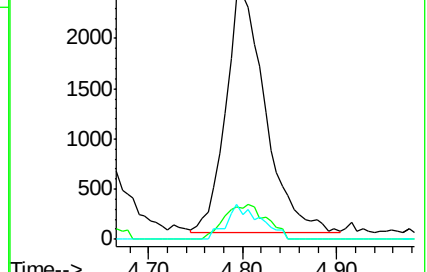
70 12.1 10.5 15.7



Abundance Ion 43.00 (42.70 to 43.70): VX019133.D (-597) (-)

Ion 60.90 (60.60 to 61.60): VX019133.D (-597) (-)

Ion 70.00 (69.70 to 70.70): VX019133.D (-597) (-)



#38

Carbon Tetrachloride

Concen: 6.272 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX019281.D

Acq: 04 Nov 2020 20:04

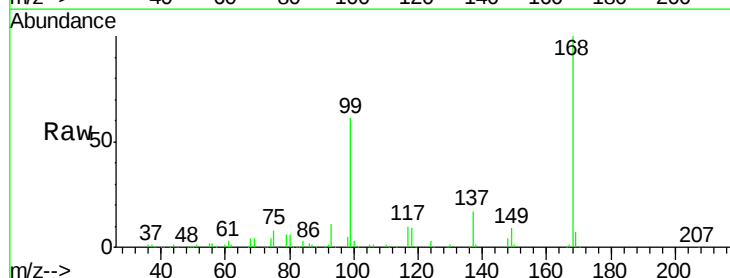
Tgt Ion: 117 Resp: 28570

Ion Ratio Lower Upper

117 100

119 4.7 75.0 112.6#

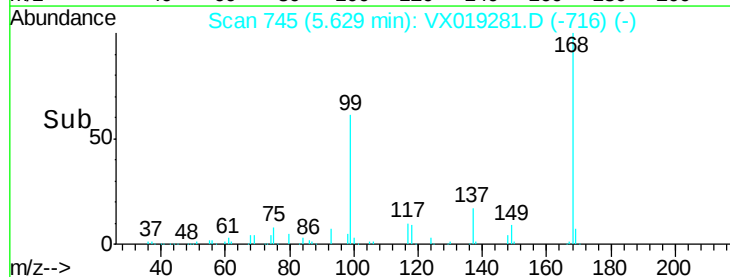
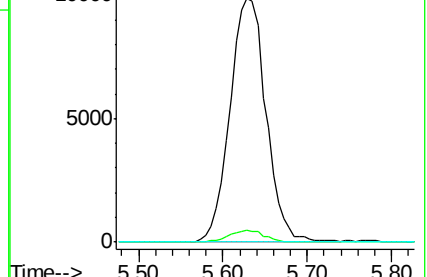
121 0.0 23.9 35.9#

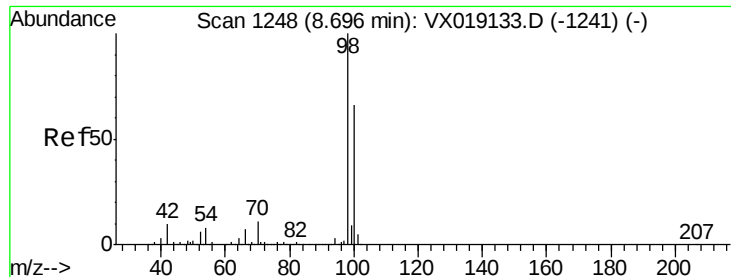


Abundance Ion 116.80 (116.50 to 117.50): VX019133.D (-754) (-)

Ion 118.80 (118.50 to 119.50): VX019133.D (-754) (-)

Ion 120.80 (120.50 to 121.50): VX019133.D (-754) (-)

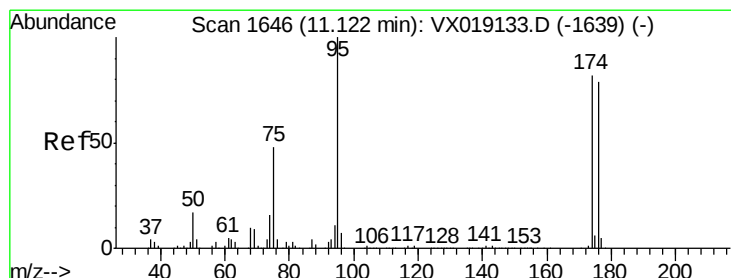
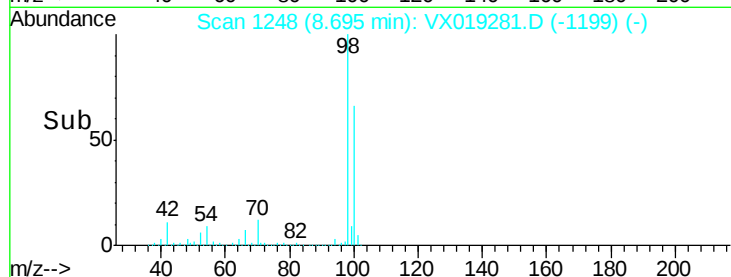
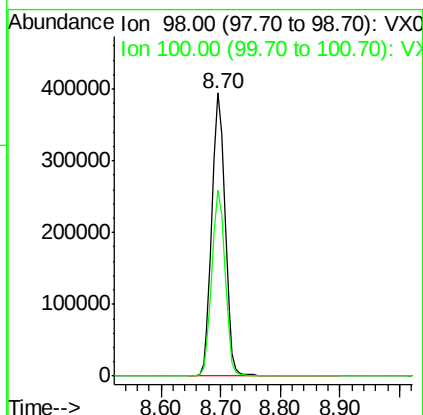
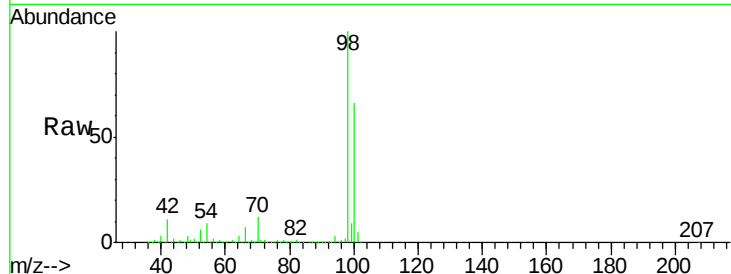




#50  
Toluene-d8  
Concen: 52.482 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. -0.00 min  
Lab File: VX019281.D  
Acq: 04 Nov 2020 20:04

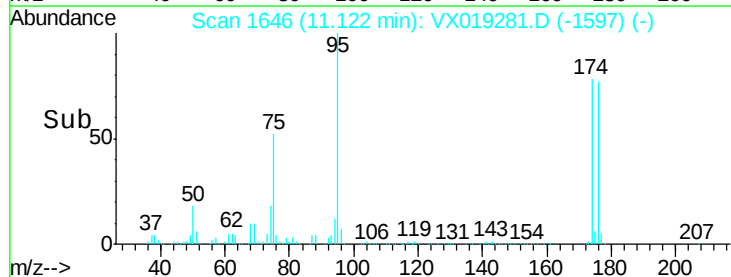
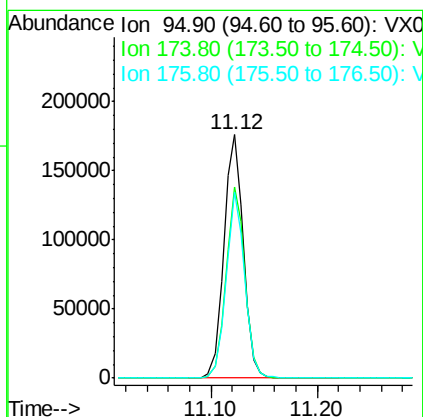
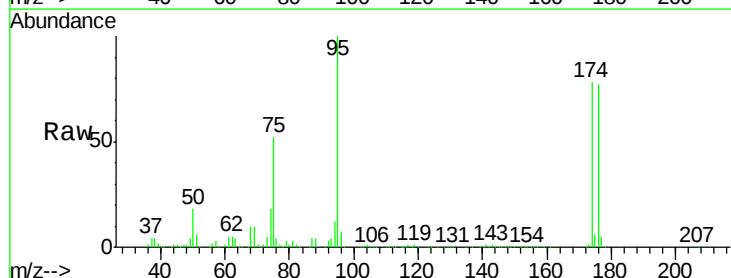
Instrument :  
MSVOA\_X  
ClientSampleId :  
FA20-GMZ5-RB1

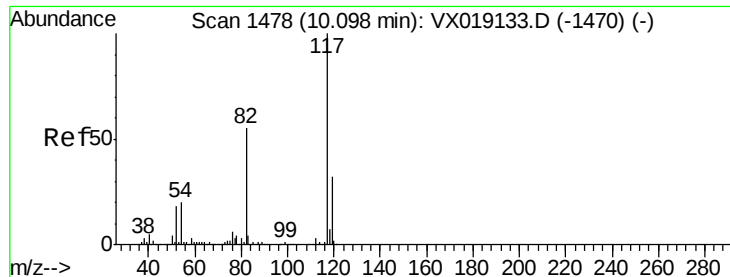
Tot Ion: 98 Resp: 601355  
Ion Ratio Lower Upper  
98 100  
100 65.8 53.0 79.6



#62  
4-Bromofluorobenzene  
Concen: 51.753 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX019281.D  
Acq: 04 Nov 2020 20:04

Tgt Ion: 95 Resp: 224574  
Ion Ratio Lower Upper  
95 100  
174 76.0 0.0 156.0  
176 72.8 0.0 149.8

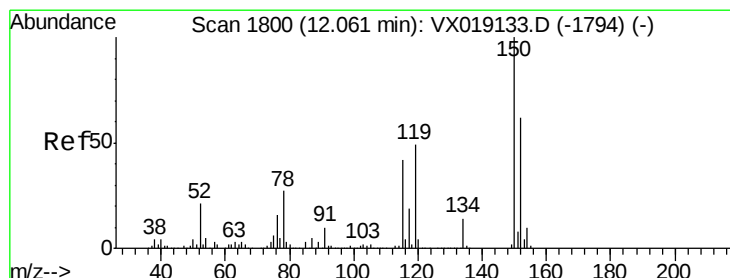
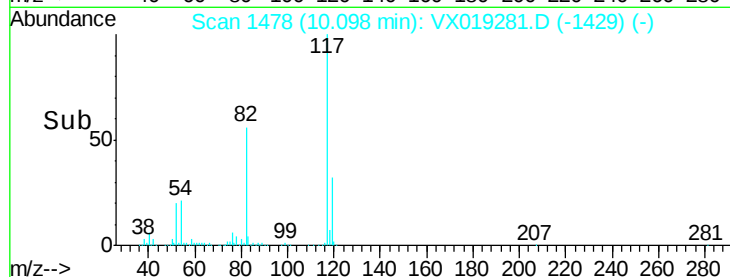
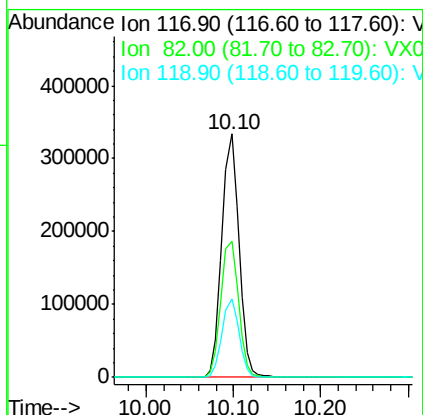
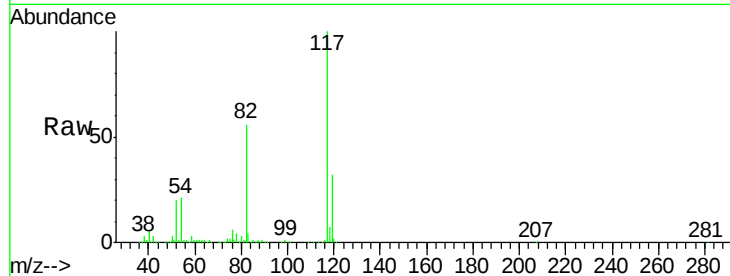




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX019281.D  
Acq: 04 Nov 2020 20:04

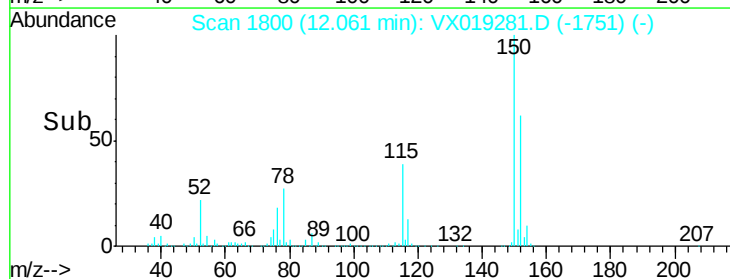
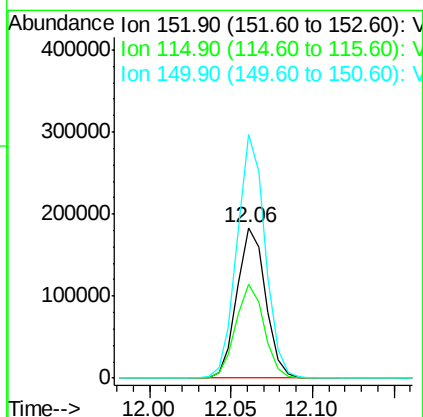
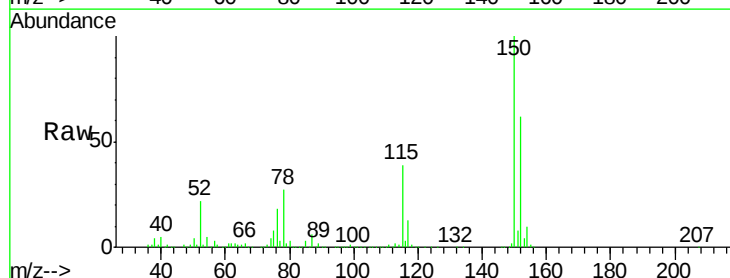
Instrument :  
MSVOA\_X  
ClientSampleId :  
FA20-GMZ5-RB1

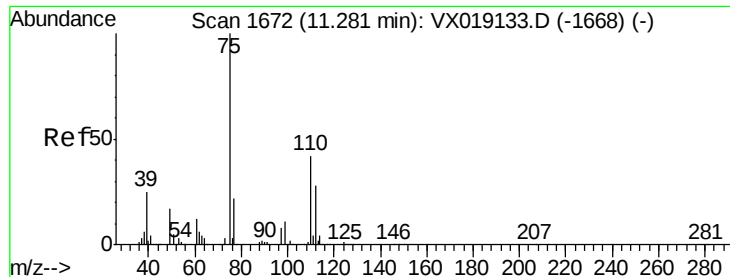
Tot Ion:117 Resp: 454465  
Ion Ratio Lower Upper  
117 100  
82 55.7 43.6 65.4  
119 32.3 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX019281.D  
Acq: 04 Nov 2020 20:04

Tgt Ion:152 Resp: 224536  
Ion Ratio Lower Upper  
152 100  
115 61.6 41.9 125.7  
150 158.4 0.0 347.8





#76

1,2,3-Trichloropropane

Concen: 24.911 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX019281.D

Acq: 04 Nov 2020 20:04

Instrument :

MSVOA\_X

ClientSampleId :

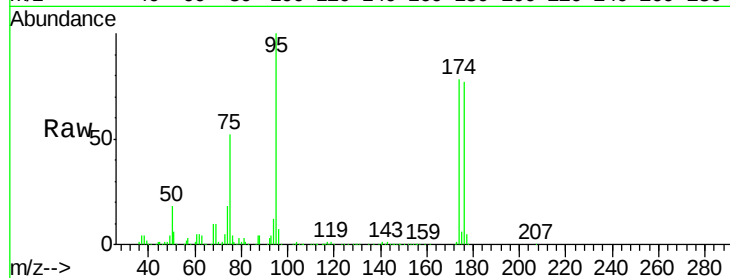
FA20-GMZ5-RB1

Tot Ion: 75 Resp: 115491

Ion Ratio Lower Upper

75 100

77 1.2 20.3 60.9#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

100000

80000

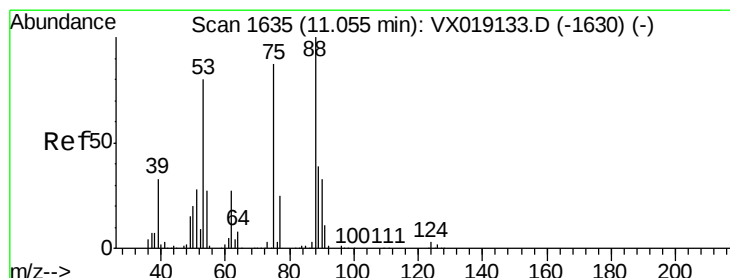
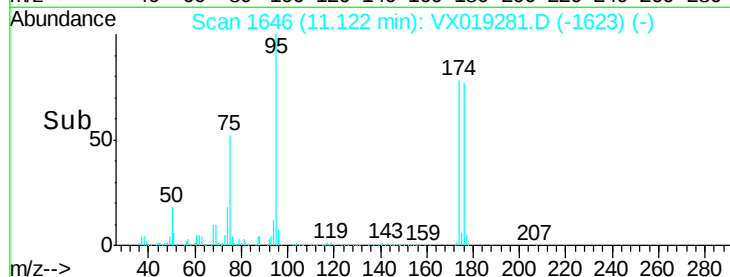
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 65.590 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX019281.D

Acq: 04 Nov 2020 20:04

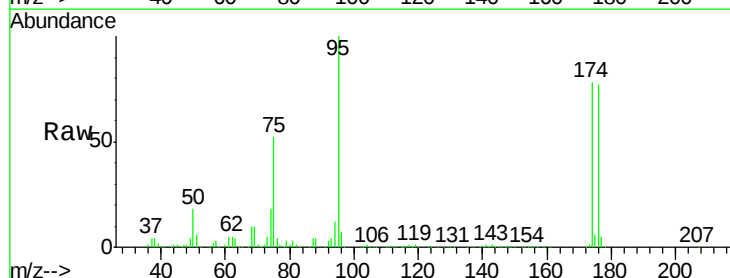
Tgt Ion: 75 Resp: 115491

Ion Ratio Lower Upper

75 100

53 0.0 73.3 109.9#

89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

11.12

120000

100000

80000

60000

40000

20000

0

Time-->

