

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110220\  
 Data File : VX019217.D  
 Acq On : 02 Nov 2020 17:26  
 Operator : JC/MD  
 Sample : L4485-16 2.5PPB MDL  
 Misc : 5.0µ/5mL/100µL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-ME-SOIL-02

Quant Time: Nov 03 07:26:26 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\SFAMXLM110220WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Nov 02 14:52:07 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Difluorobenzene     | 6.83  | 114  | 444235   | 50.00 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 10.10 | 117  | 409263   | 50.00 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 179471   | 50.00 | ug/L  | 0.00     |

## System Monitoring Compounds

|                                |         |       |          |          |      |         |
|--------------------------------|---------|-------|----------|----------|------|---------|
| 4) Vinyl Chloride-d3           | 1.39    | 65    | 179618   | 46.97    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 135 | Recovery | =    | 93.94%  |
| 7) Chloroethane-d5             | 1.70    | 69    | 141323   | 49.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 130 | Recovery | =    | 99.54%  |
| 11) 1,1-Dichloroethene-d2      | 2.34    | 63    | 240076   | 38.05    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 76.10%  |
| 21) 2-Butanone-d5              | 4.53    | 46    | 200269   | 102.64   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 40 - 130 | Recovery | =    | 102.64% |
| 24) Chloroform-d               | 5.14    | 84    | 291688   | 46.83    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 93.66%  |
| 26) 1,2-Dichloroethane-d4      | 6.03    | 65    | 202549   | 45.77    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 91.54%  |
| 32) Benzene-d6                 | 6.05    | 84    | 623720   | 49.09    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 125 | Recovery | =    | 98.18%  |
| 36) 1,2-Dichloropropane-d6     | 7.37    | 67    | 189221   | 50.45    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 70 - 120 | Recovery | =    | 100.90% |
| 41) Toluene-d8                 | 8.70    | 98    | 577728   | 44.79    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 89.58%  |
| 43) trans-1,3-Dichloropropene- | 8.99    | 79    | 96162    | 48.33    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 60 - 125 | Recovery | =    | 96.66%  |
| 47) 2-Hexanone-d5              | 9.43    | 63    | 162106   | 104.62   | ug/L | 0.00    |
| Spiked Amount                  | 100.000 | Range | 45 - 130 | Recovery | =    | 104.62% |
| 56) 1,1,2,2-Tetrachloroethane- | 11.23   | 84    | 216024   | 48.81    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 65 - 120 | Recovery | =    | 97.62%  |
| 66) 1,2-Dichlorobenzene-d4     | 12.36   | 152   | 180542   | 50.10    | ug/L | 0.00    |
| Spiked Amount                  | 50.000  | Range | 80 - 120 | Recovery | =    | 100.20% |

## Target Compounds

|                                |      |     |       |              | Ovalue |
|--------------------------------|------|-----|-------|--------------|--------|
| 2) Dichlorodifluoromethane     | 1.18 | 85  | 6693  | 2.377 ug/L   | 100    |
| 3) Chloromethane               | 1.31 | 50  | 7067  | 2.471 ug/L   | 98     |
| 5) Vinyl chloride              | 1.39 | 62  | 8410  | 2.608 ug/L # | 64     |
| 6) Bromomethane                | 1.64 | 94  | 5518  | 2.590 ug/L   | 96     |
| 8) Chloroethane                | 1.72 | 64  | 5251  | 2.613 ug/L   | 100    |
| 9) Trichlorofluoromethane      | 1.92 | 101 | 11499 | 2.404 ug/L   | 100    |
| 10) 1,1,2-Trichloro-1,2,2-trif | 2.37 | 101 | 8467  | 3.069 ug/L # | 79     |
| 12) 1,1-Dichloroethene         | 2.36 | 96  | 8052  | 3.008 ug/L # | 1      |
| 13) Acetone                    | 2.43 | 43  | 5281  | 4.380 ug/L   | 95     |
| 14) Carbon disulfide           | 2.56 | 76  | 18609 | 2.303 ug/L   | 99     |
| 15) Methyl Acetate             | 2.75 | 43  | 7305  | 2.776 ug/L   | 97     |
| 16) Methylene chloride         | 2.84 | 84  | 7998  | 2.679 ug/L   | 95     |
| 17) trans-1,2-Dichloroethene   | 3.14 | 96  | 6788  | 2.359 ug/L   | 99     |
| 18) Methyl tert-butyl Ether    | 3.17 | 73  | 20890 | 2.296 ug/L   | 96     |
| 19) 1,1-Dichloroethane         | 3.67 | 63  | 11960 | 2.339 ug/L   | 96     |
| 20) cis-1,2-Dichloroethene     | 4.56 | 96  | 7482  | 2.367 ug/L   | 100    |
| 22) 2-Butanone                 | 4.65 | 43  | 7908  | 4.153 ug/L   | 95     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110220\  
 Data File : VX019217.D  
 Acq On : 02 Nov 2020 17:26  
 Operator : JC/MD  
 Sample : L4485-16 2.5PPB MDL  
 Misc : 5.0µ/5mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 16 Sample Multiplier: 1

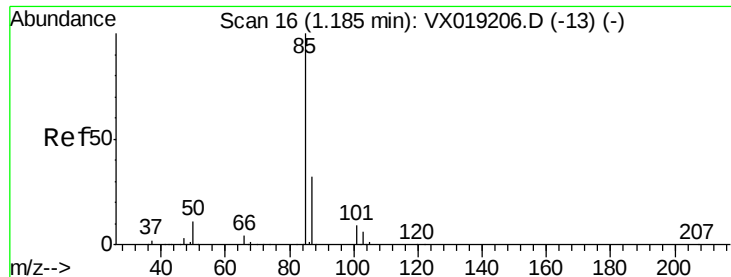
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-ME-SOIL-02

Quant Time: Nov 03 07:26:26 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\SFAMXLM110220WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Nov 02 14:52:07 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|-------|--------|----------|
| 23) Bromochloromethane         | 4.98  | 128  | 3770     | 2.368 | ug/L   | 92       |
| 25) Chloroform                 | 5.18  | 83   | 22075    | 4.112 | ug/L   | 96       |
| 27) 1,2-Dichloroethane         | 6.16  | 62   | 10546    | 2.495 | ug/L # | 92       |
| 29) Cyclohexane                | 5.55  | 56   | 10892    | 2.312 | ug/L   | 99       |
| 30) 1,1,1-Trichloroethane      | 5.46  | 97   | 11129    | 2.256 | ug/L   | 99       |
| 31) Carbon tetrachloride       | 5.76  | 117  | 9426     | 2.224 | ug/L   | 98       |
| 33) Benzene                    | 6.11  | 78   | 28029    | 2.385 | ug/L   | 100      |
| 34) Trichloroethene            | 7.19  | 95   | 7390     | 2.304 | ug/L   | 93       |
| 35) Methylcyclohexane          | 7.43  | 83   | 11150    | 2.197 | ug/L   | 99       |
| 37) 1,2-Dichloropropane        | 7.48  | 63   | 6650     | 2.279 | ug/L # | 97       |
| 38) Bromodichloromethane       | 7.87  | 83   | 9013     | 2.221 | ug/L   | 98       |
| 39) cis-1,3-Dichloropropene    | 8.42  | 75   | 11247    | 2.319 | ug/L   | 96       |
| 40) 4-Methyl-2-pentanone       | 8.62  | 43   | 17209    | 4.821 | ug/L   | 99       |
| 42) Toluene                    | 8.76  | 91   | 37872    | 2.963 | ug/L   | 96       |
| 44) trans-1,3-Dichloropropene  | 9.02  | 75   | 11153    | 2.361 | ug/L   | 100      |
| 45) 1,1,2-Trichloroethane      | 9.20  | 97   | 6679     | 2.330 | ug/L   | 97       |
| 46) Tetrachloroethene          | 9.32  | 164  | 5892     | 2.435 | ug/L   | 93       |
| 48) 2-Hexanone                 | 9.47  | 43   | 15429    | 5.486 | ug/L   | 97       |
| 49) Dibromochloromethane       | 9.56  | 129  | 6715     | 2.141 | ug/L   | 96       |
| 50) 1,2-Dibromoethane          | 9.65  | 107  | 6806     | 2.270 | ug/L   | 98       |
| 51) Chlorobenzene              | 10.12 | 112  | 18601    | 2.340 | ug/L   | 97       |
| 52) Ethylbenzene               | 10.23 | 91   | 31884    | 2.308 | ug/L   | 99       |
| 53) m,p-Xylene                 | 10.34 | 106  | 12052    | 2.322 | ug/L   | 92       |
| 54) o-Xylene                   | 10.68 | 106  | 11084    | 2.205 | ug/L   | 95       |
| 55) Styrene                    | 10.70 | 104  | 17154    | 2.023 | ug/L   | 96       |
| 57) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 9714     | 2.472 | ug/L # | 99       |
| 59) Bromoform                  | 10.84 | 173  | 3891     | 2.001 | ug/L   | 99       |
| 60) Isopropylbenzene           | 11.00 | 105  | 29691    | 2.438 | ug/L   | 99       |
| 61) 1,2,3-Trichloropropane     | 11.28 | 75   | 7801     | 2.552 | ug/L   | 98       |
| 62) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 23040    | 2.299 | ug/L   | 100      |
| 63) 1,2,4-Trimethylbenzene     | 11.79 | 105  | 22115    | 2.333 | ug/L   | 97       |
| 64) 1,3-Dichlorobenzene        | 12.01 | 146  | 11967    | 2.276 | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene        | 12.08 | 146  | 12574    | 2.356 | ug/L   | 97       |
| 67) 1,2-Dichlorobenzene        | 12.38 | 146  | 12790    | 2.512 | ug/L   | 92       |
| 68) 1,2-Dibromo-3-chloropropan | 12.98 | 75   | 2008     | 2.412 | ug/L # | 85       |
| 69) 1,3,5-Trichlorobenzene     | 13.15 | 180  | 8433     | 2.290 | ug/L   | 97       |
| 70) 1,2,4-trichlorobenzene     | 13.63 | 180  | 7597     | 2.238 | ug/L   | 97       |
| 71) Naphthalene                | 13.82 | 128  | 23422    | 2.134 | ug/L   | 99       |
| 72) 1,2,3-Trichlorobenzene     | 14.01 | 180  | 7183     | 2.163 | ug/L   | 96       |

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





#2

Dichlorodifluoromethane

Concen: 2.377 ug/L

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

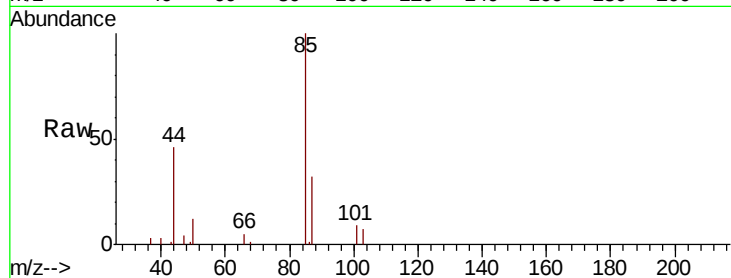
MDL-ME-SOIL-02

Tot Ion: 85 Resp: 6693

Ion Ratio Lower Upper

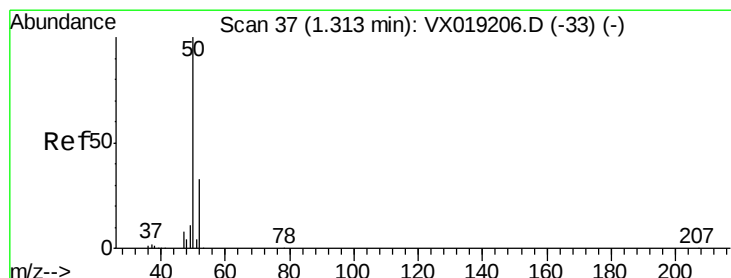
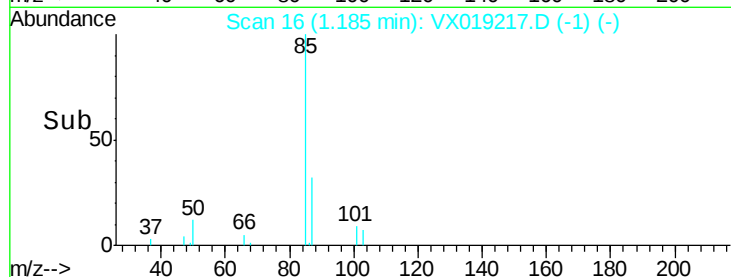
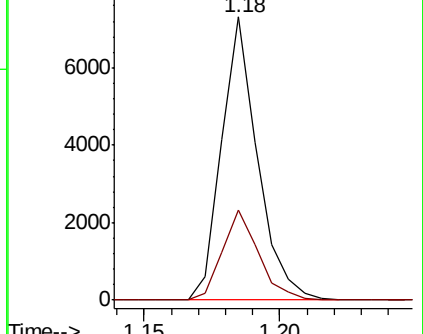
85 100

87 32.2 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#3

Chloromethane

Concen: 2.471 ug/L

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX019217.D

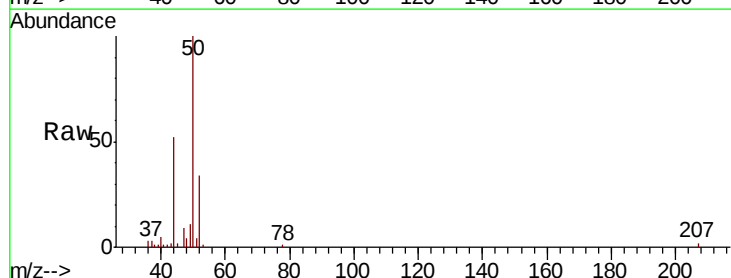
Acq: 02 Nov 2020 17:26

Tgt Ion: 50 Resp: 7067

Ion Ratio Lower Upper

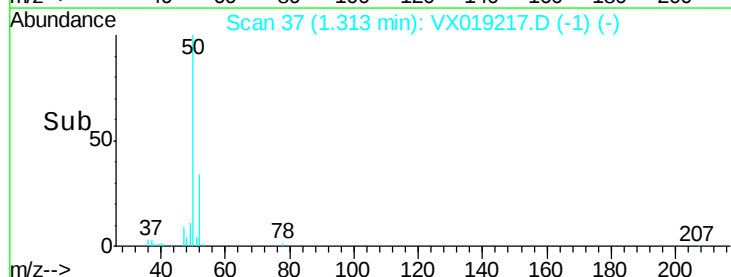
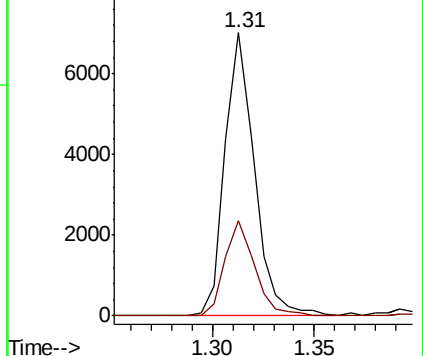
50 100

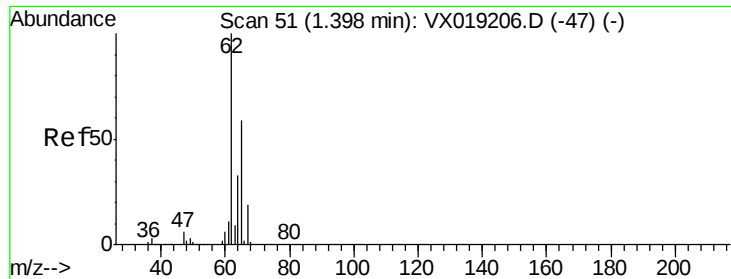
52 33.7 22.8 42.4



Abundance Ion 50.00 (49.70 to 50.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#5

Vinyl chloride

Concen: 2.608 ug/L

RT: 1.39 min Scan# 50

Delta R.T. -0.01 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

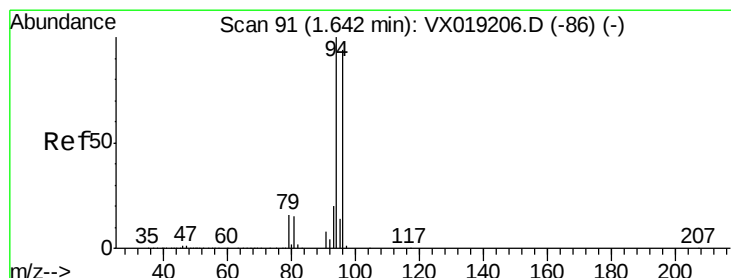
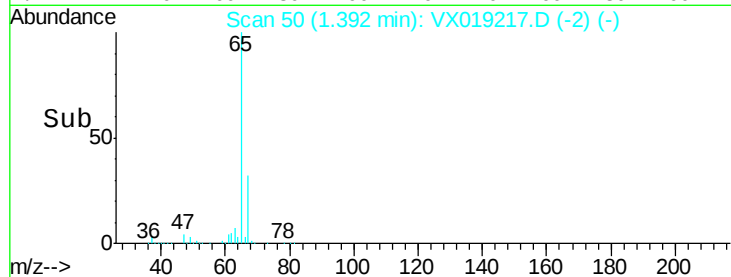
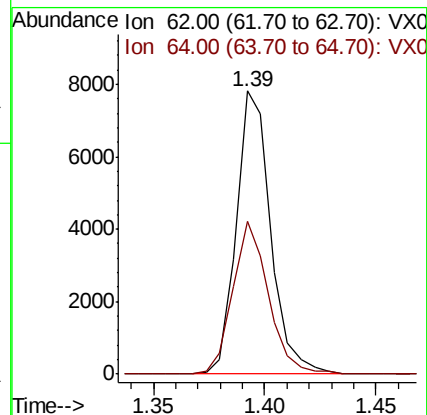
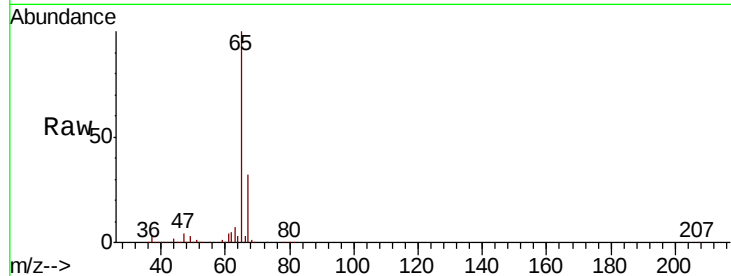
MDL-ME-SOIL-02

Tot Ion: 62 Resp: 8410

Ion Ratio Lower Upper

62 100

64 54.0 23.4 43.6#



#6

Bromomethane

Concen: 2.590 ug/L

RT: 1.64 min Scan# 91

Delta R.T. 0.00 min

Lab File: VX019217.D

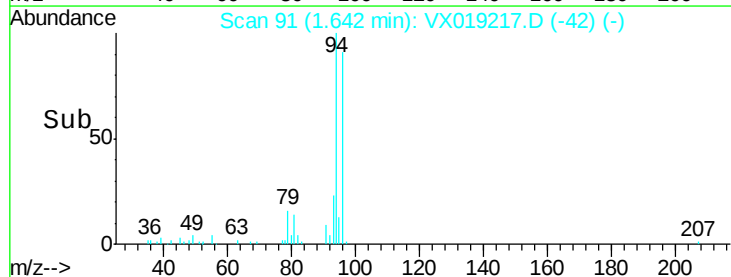
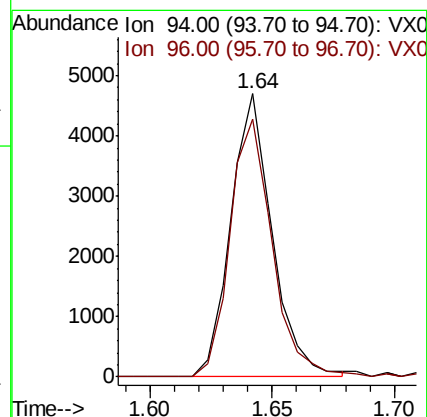
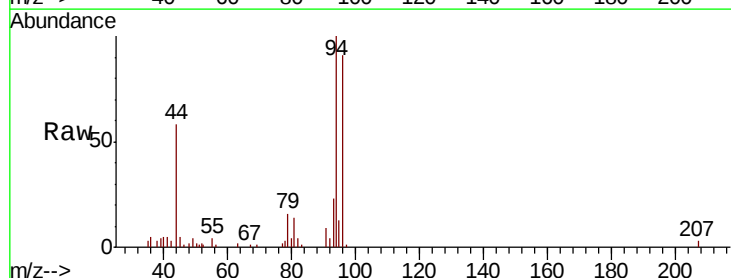
Acq: 02 Nov 2020 17:26

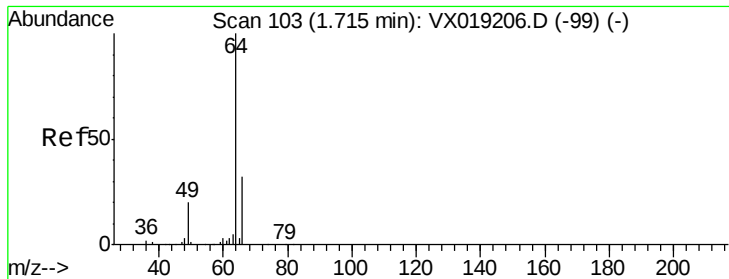
Tgt Ion: 94 Resp: 5518

Ion Ratio Lower Upper

94 100

96 90.9 66.0 122.6





#8

Chloroethane

Concen: 2.613 ug/L

RT: 1.72 min Scan# 103

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

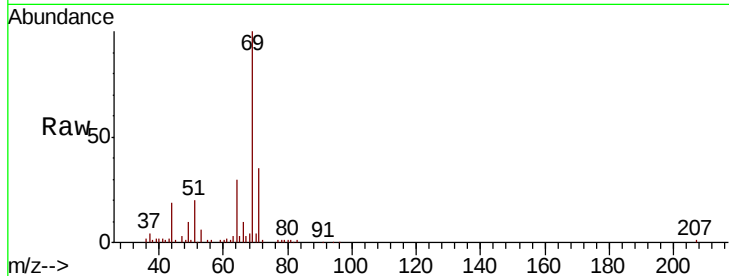
MDL-ME-SOIL-02

Tot Ion: 64 Resp: 5251

Ion Ratio Lower Upper

64 100

66 31.9 22.5 41.9



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0

1.72

4000

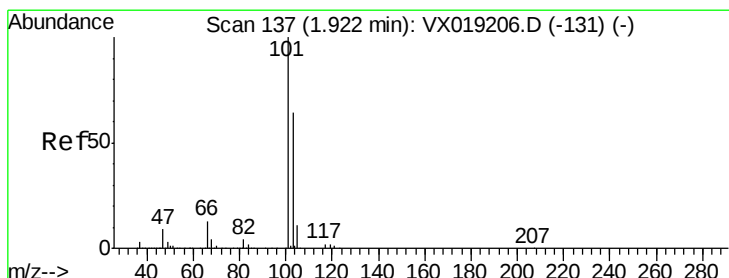
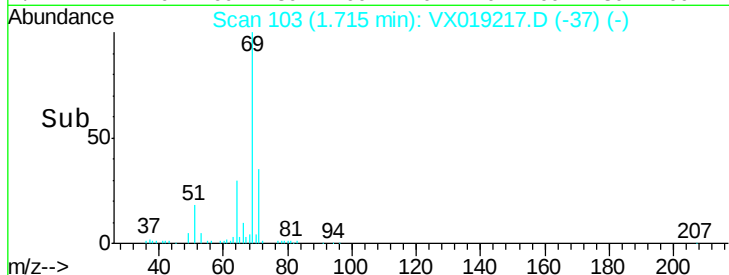
3000

2000

1000

0

Time--> 1.65 1.70 1.75



#9

Trichlorofluoromethane

Concen: 2.404 ug/L

RT: 1.92 min Scan# 137

Delta R.T. 0.00 min

Lab File: VX019217.D

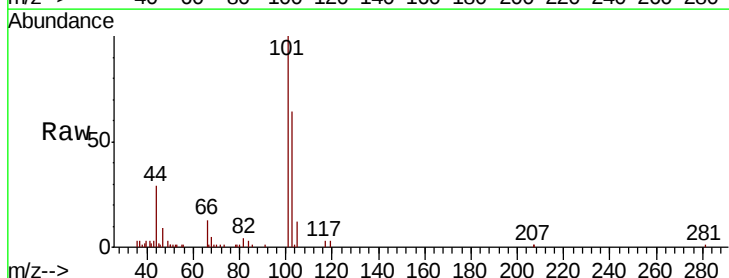
Acq: 02 Nov 2020 17:26

Tgt Ion: 101 Resp: 11499

Ion Ratio Lower Upper

101 100

103 63.8 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

8000

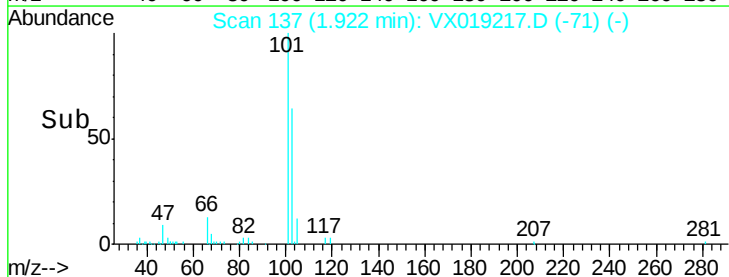
6000

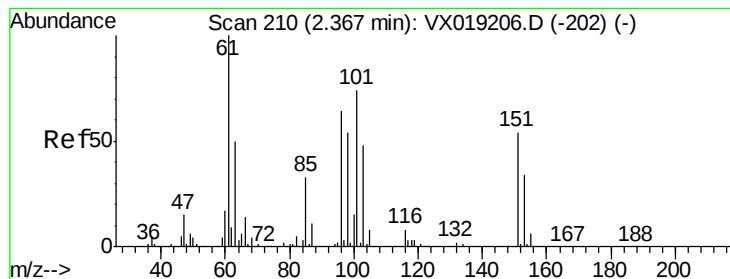
4000

2000

0

Time--> 1.90 1.95





#10

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

Concen: 3.069 ug/L

RT: 2.37 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

MDL-ME-SOIL-02

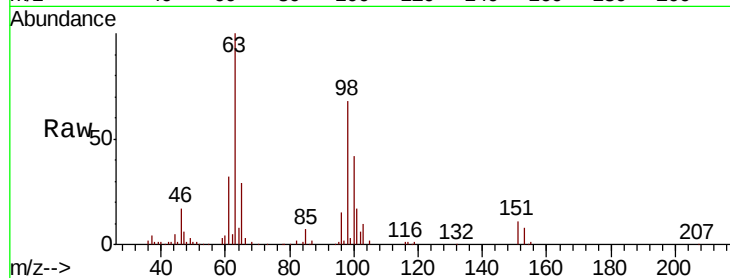
Tot Ion:101 Resp: 8467

Ion Ratio Lower Upper

101 100

85 32.4 35.0 52.4#

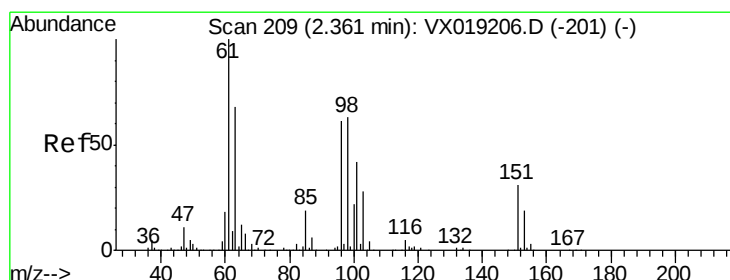
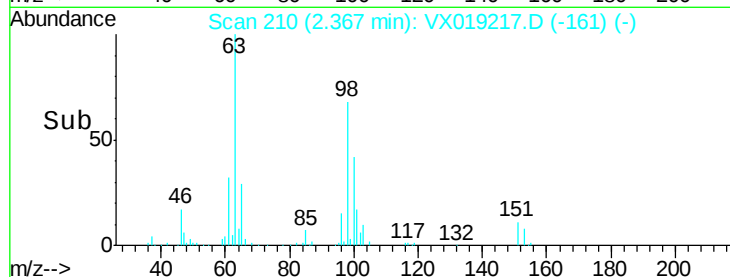
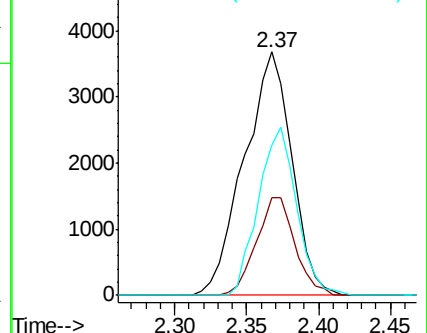
151 55.3 59.9 89.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VX0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 3.008 ug/L

RT: 2.36 min Scan# 208

Delta R.T. -0.01 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

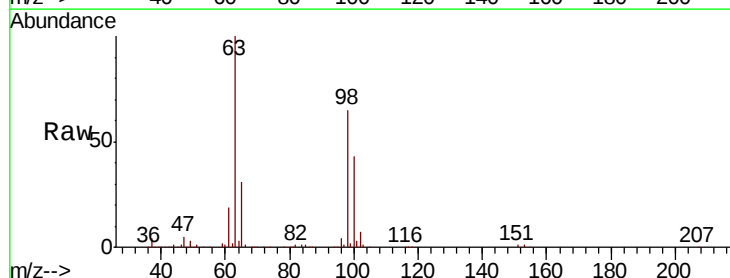
Tgt Ion: 96 Resp: 8052

Ion Ratio Lower Upper

96 100

61 414.6 115.1 213.8#

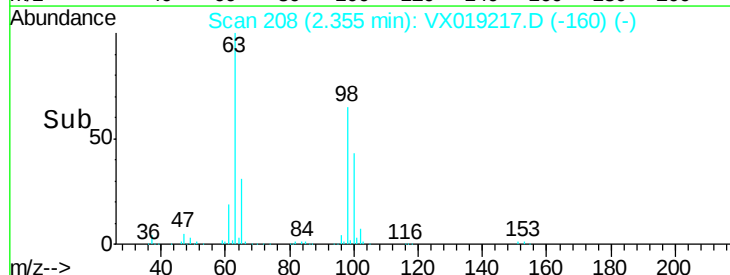
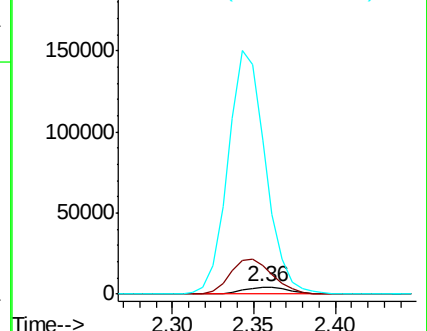
63 2232.5 78.3 145.5#

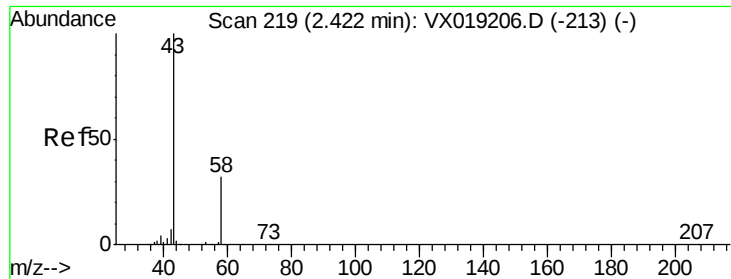


Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 63.00 (62.70 to 63.70): VX0





#13

Acetone

Concen: 4.380 ug/L

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

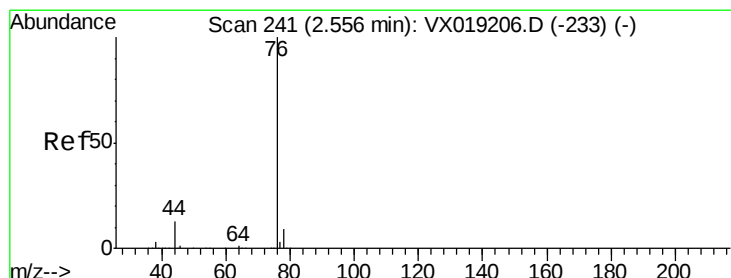
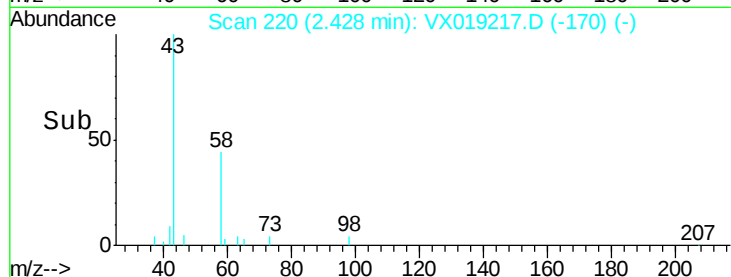
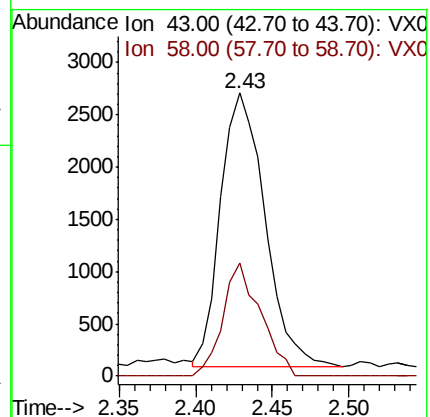
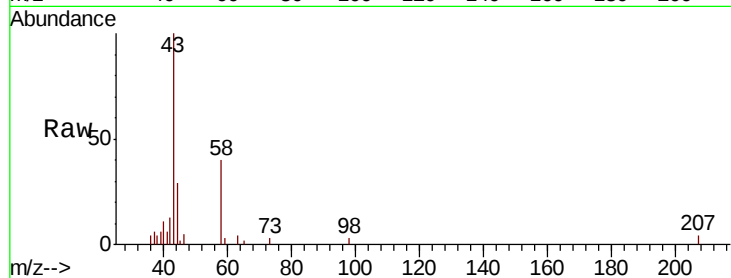
MDL-ME-SOIL-02

Tot Ion: 43 Resp: 5281

Ion Ratio Lower Upper

43 100

58 35.0 0.0 64.6



#14

Carbon disulfide

Concen: 2.303 ug/L

RT: 2.56 min Scan# 241

Delta R.T. 0.00 min

Lab File: VX019217.D

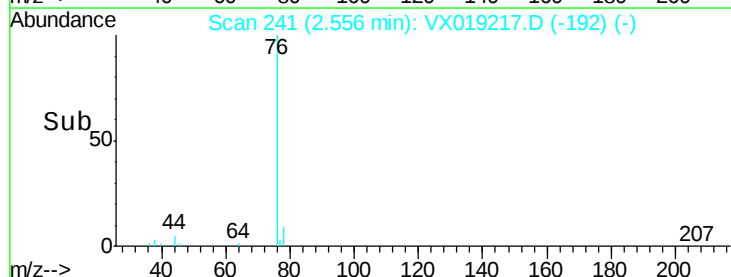
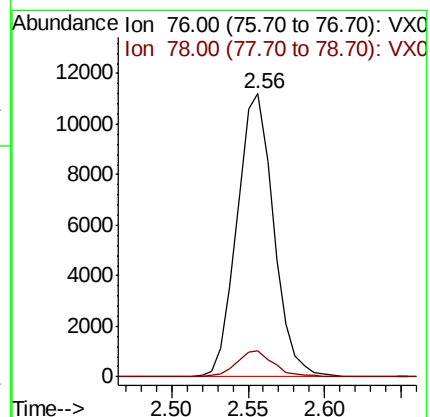
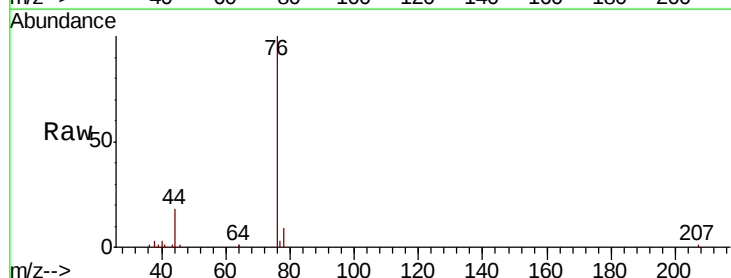
Acq: 02 Nov 2020 17:26

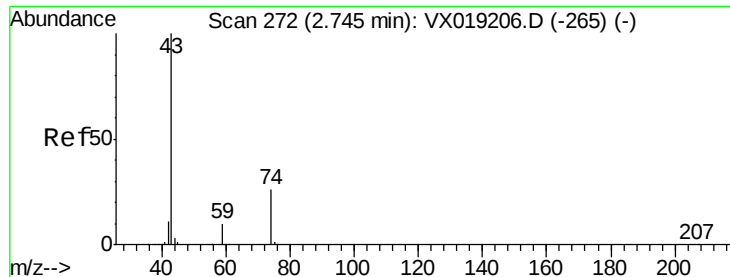
Tgt Ion: 76 Resp: 18609

Ion Ratio Lower Upper

76 100

78 9.4 7.1 10.7

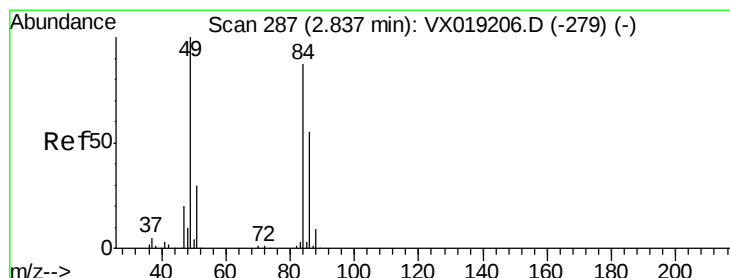
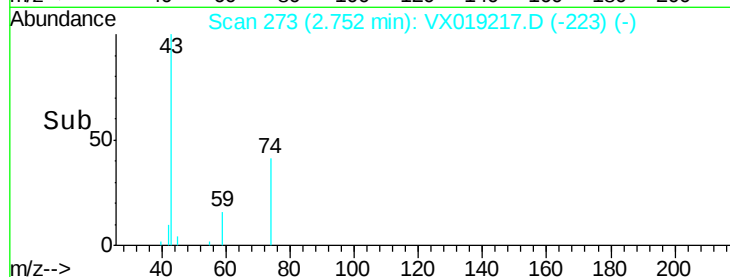
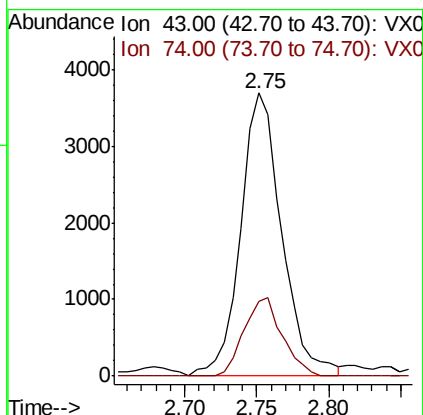
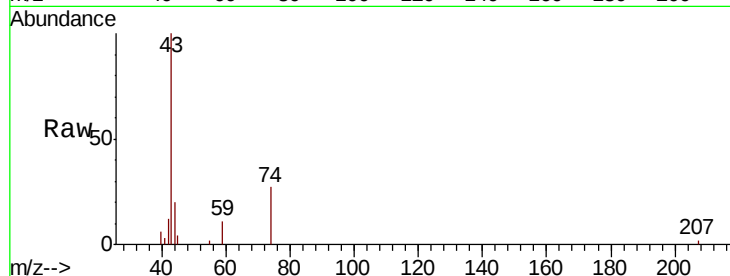




#15  
Methvl Acetate  
Concen: 2.776 ug/L  
RT: 2.75 min Scan# 273  
Delta R.T. 0.01 min  
Lab File: VX019217.D  
Acq: 02 Nov 2020 17:26

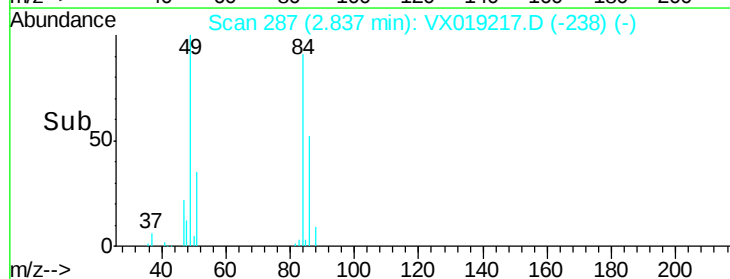
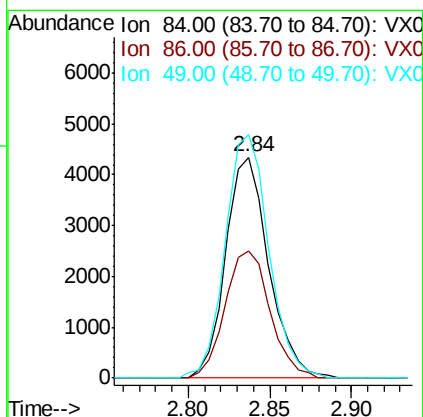
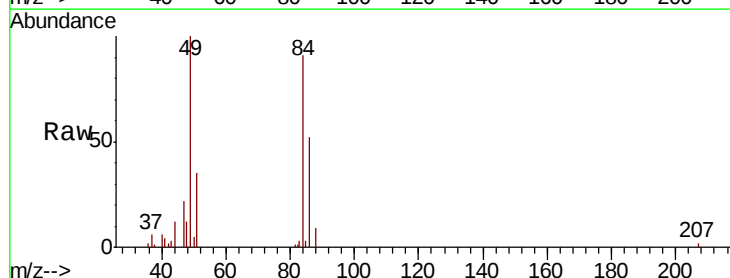
Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL-ME-SOIL-02

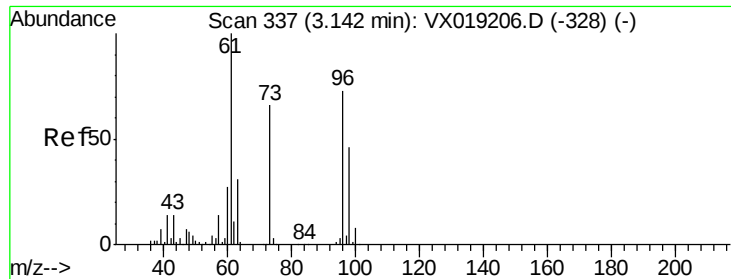
Tot Ion: 43 Resp: 7305  
Ion Ratio Lower Upper  
43 100  
74 25.7 21.8 32.8



#16  
Methylene chloride  
Concen: 2.679 ug/L  
RT: 2.84 min Scan# 287  
Delta R.T. 0.00 min  
Lab File: VX019217.D  
Acq: 02 Nov 2020 17:26

Tgt Ion: 84 Resp: 7998  
Ion Ratio Lower Upper  
84 100  
86 57.8 44.0 81.6  
49 110.1 80.6 149.6





#17

trans-1,2-Dichloroethene

Concen: 2.359 ug/L

RT: 3.14 min Scan# 337

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

MDL-ME-SOIL-02

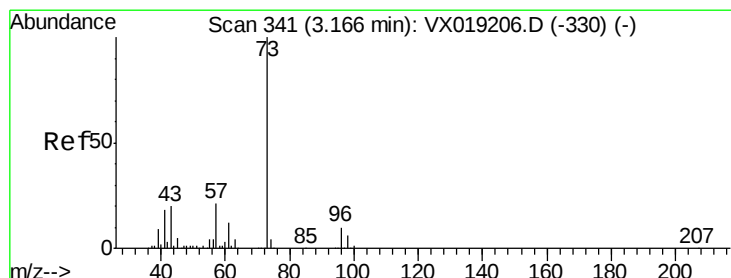
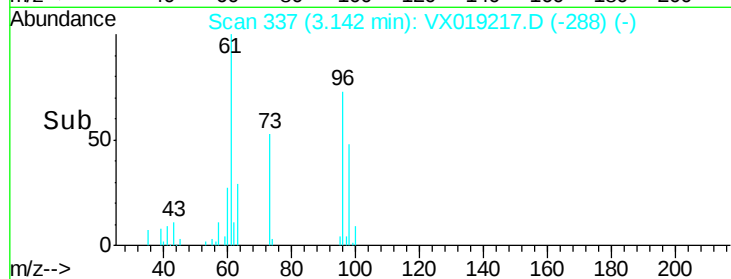
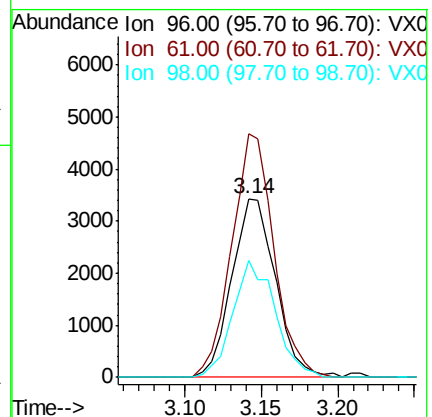
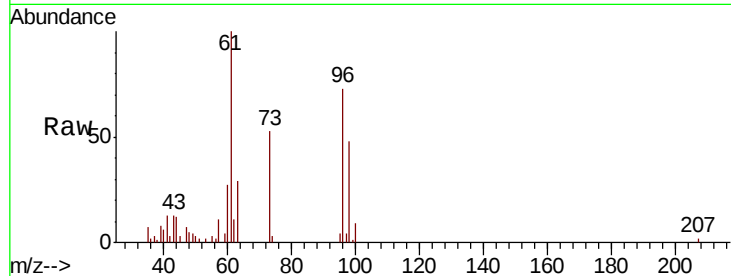
Tot Ion: 96 Resp: 6788

Ion Ratio Lower Upper

96 100

61 136.4 95.7 177.7

98 65.5 44.2 82.0



#18

Methyl tert-butyl Ether

Concen: 2.296 ug/L

RT: 3.17 min Scan# 341

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

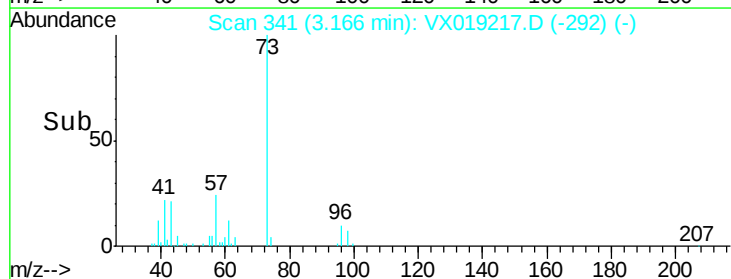
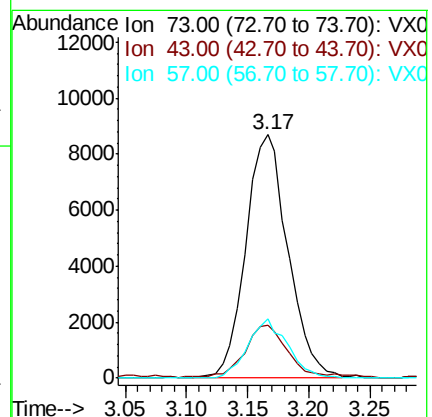
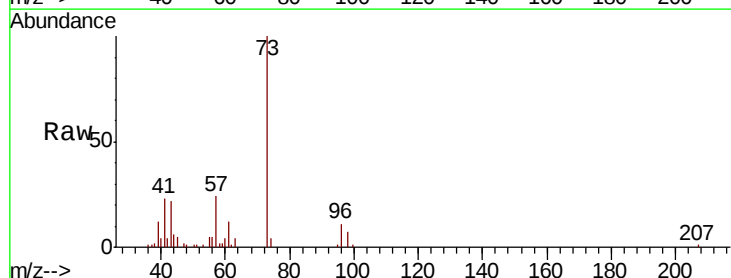
Tgt Ion: 73 Resp: 20890

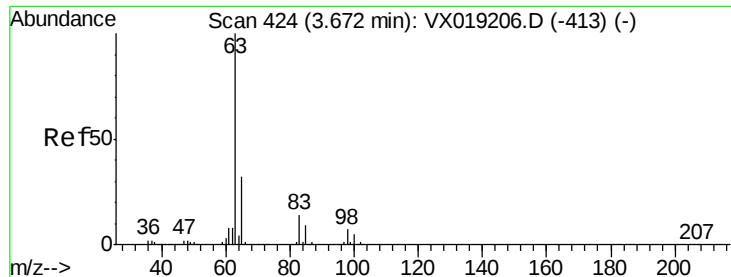
Ion Ratio Lower Upper

73 100

43 21.8 15.8 23.6

57 22.8 17.0 25.4





#19

1,1-Dichloroethane

Concen: 2.339 ug/L

RT: 3.67 min Scan# 424

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

MDL-ME-SOIL-02

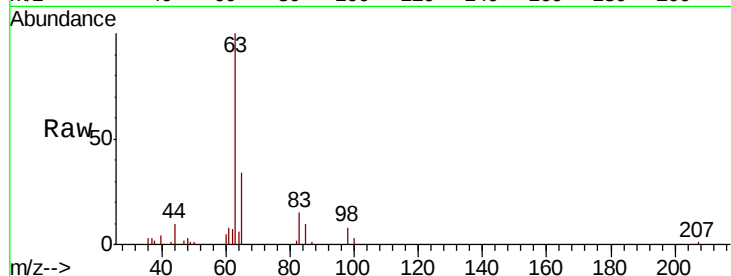
Tot Ion: 63 Resp: 11960

Ion Ratio Lower Upper

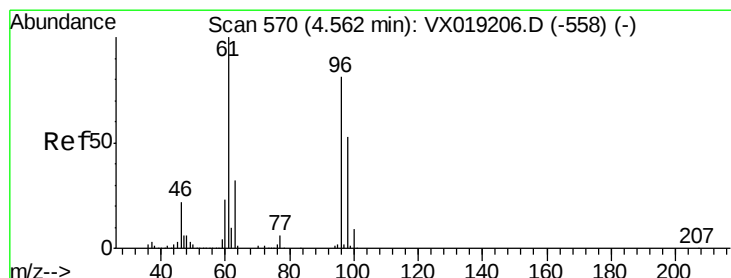
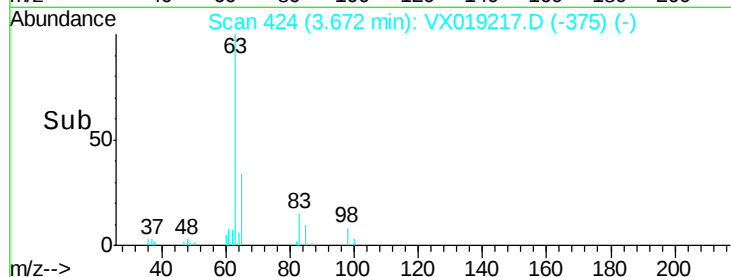
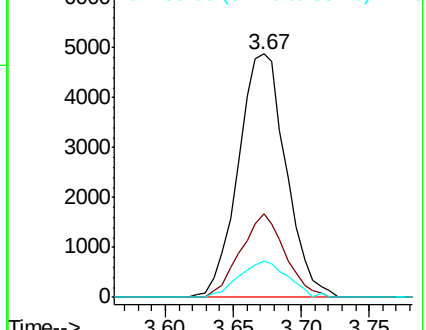
63 100

65 34.3 22.3 41.3

83 14.8 9.7 18.1



Abundance Ion 63.00 (62.70 to 63.70): VX0  
Ion 65.00 (64.70 to 65.70): VX0  
Ion 83.00 (82.70 to 83.70): VX0



#20

cis-1,2-Dichloroethene

Concen: 2.367 ug/L

RT: 4.56 min Scan# 570

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

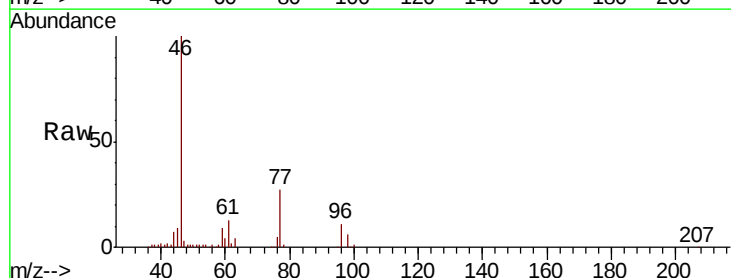
Tgt Ion: 96 Resp: 7482

Ion Ratio Lower Upper

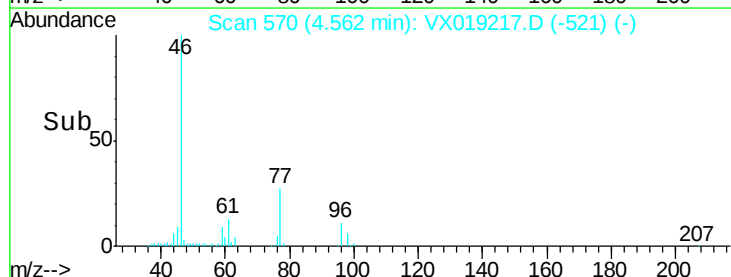
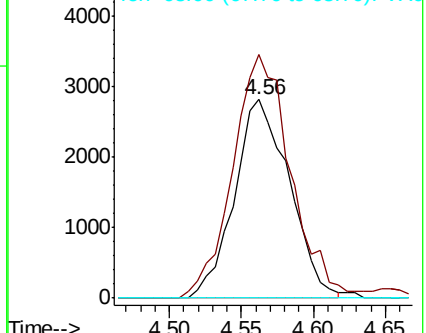
96 100

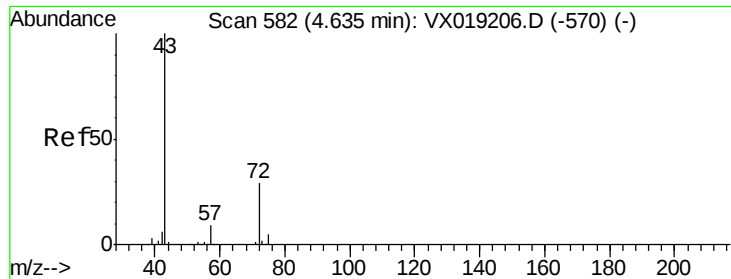
61 122.6 86.1 159.9

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VX0  
Ion 61.00 (60.70 to 61.70): VX0  
Ion 68.00 (67.70 to 68.70): VX0





#22

2-Butanone

Concen: 4.153 ug/L

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

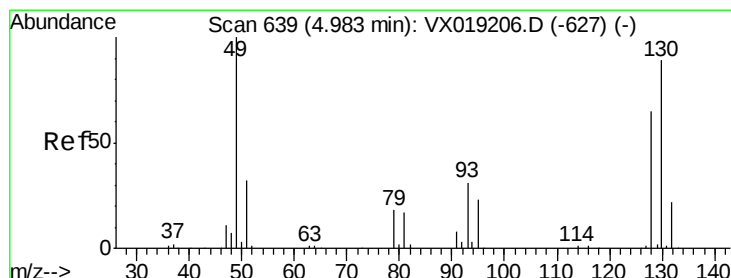
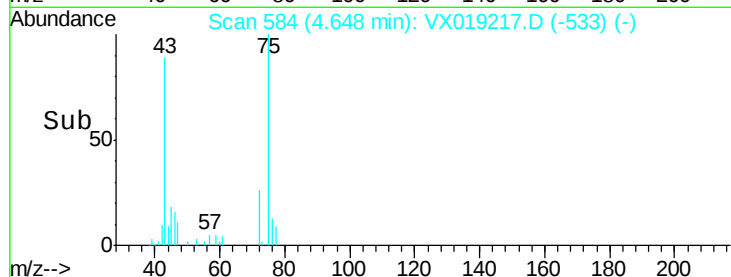
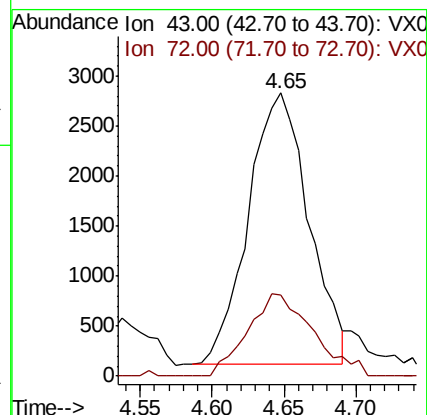
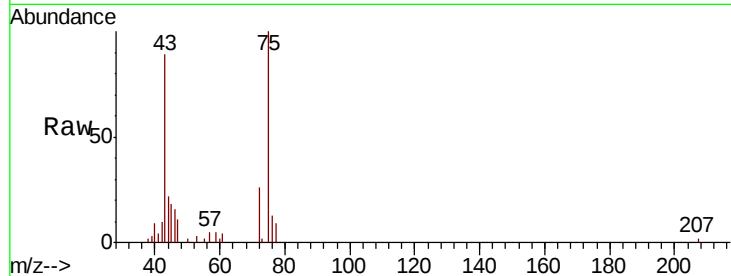
MDL-ME-SOIL-02

Tot Ion: 43 Resp: 7908

Ion Ratio Lower Upper

43 100

72 33.0 15.0 45.0



#23

Bromochloromethane

Concen: 2.368 ug/L

RT: 4.98 min Scan# 639

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Tgt Ion:128 Resp: 3770

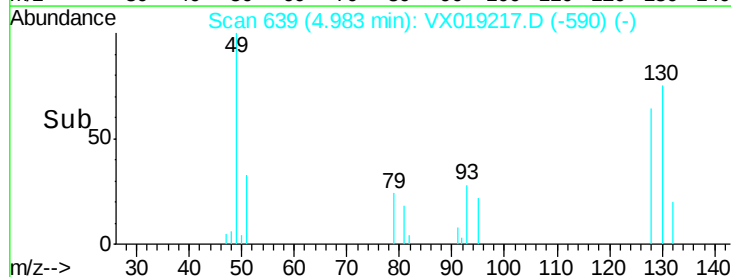
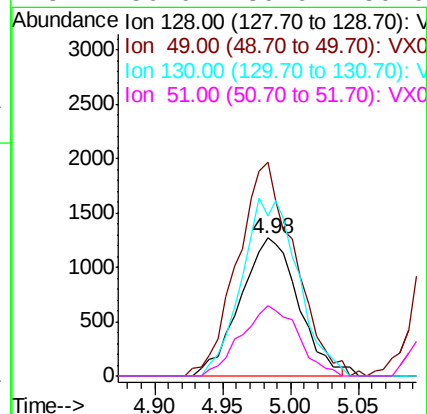
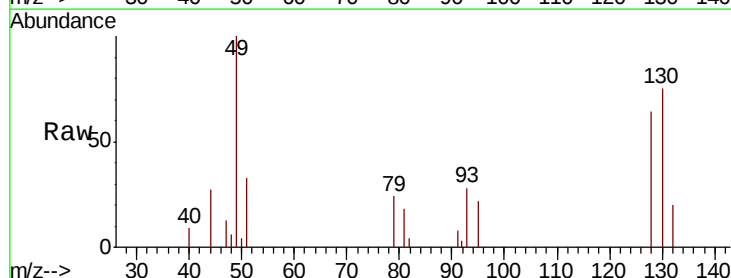
Ion Ratio Lower Upper

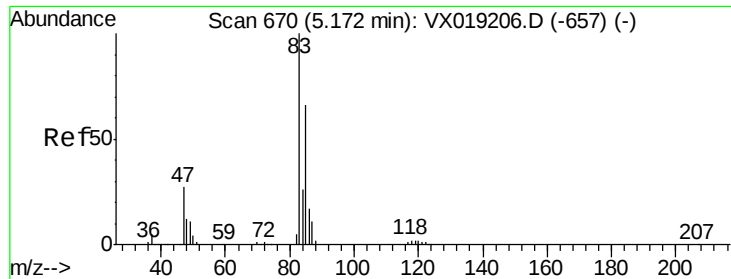
128 100

49 155.1 108.4 201.4

130 116.1 96.7 179.7

51 50.9 39.9 59.9

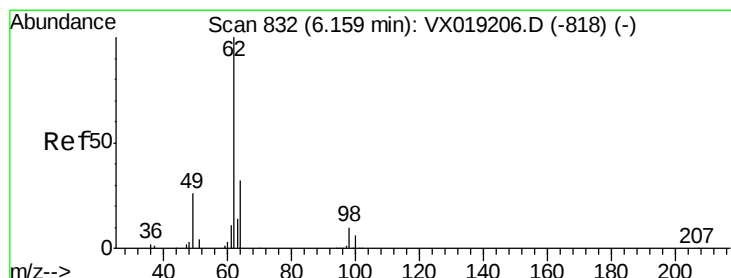
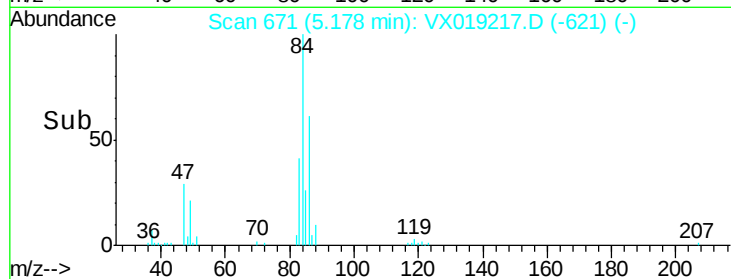
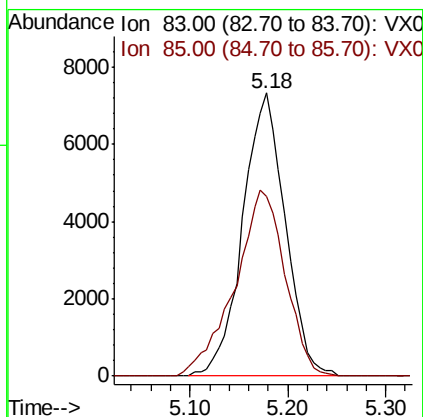
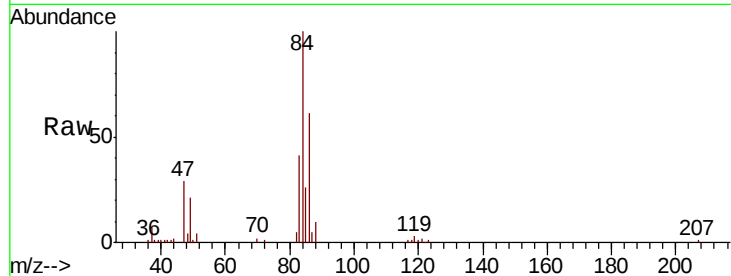




#25  
Chloroform  
Concen: 4.112 ug/L  
RT: 5.18 min Scan# 671  
Delta R.T. 0.01 min  
Lab File: VX019217.D  
Acq: 02 Nov 2020 17:26

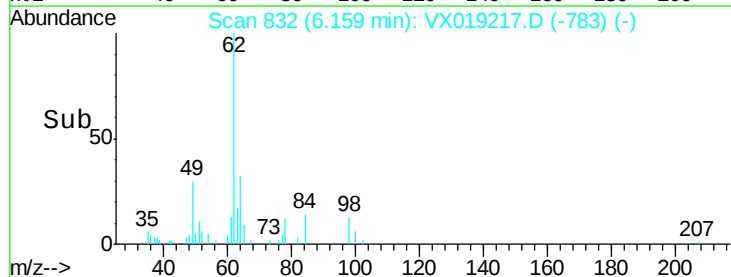
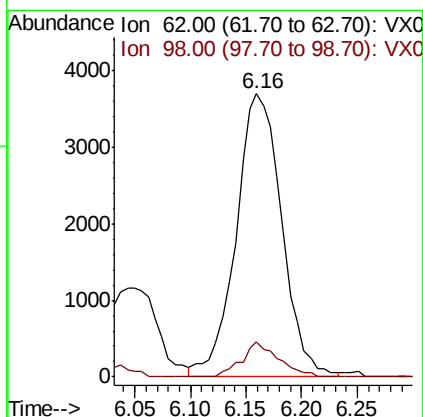
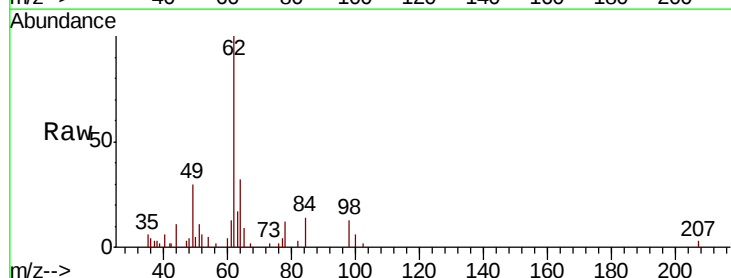
Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL-ME-SOIL-02

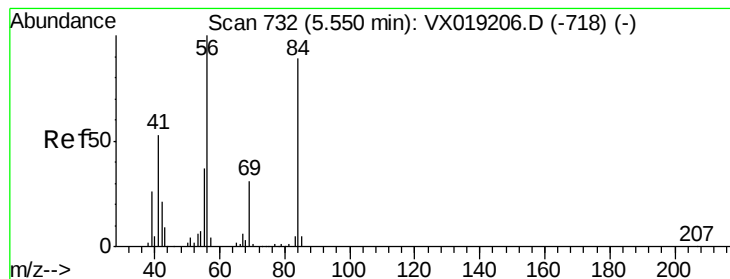
Tot Ion: 83 Resp: 22075  
Ion Ratio Lower Upper  
83 100  
85 63.5 46.5 86.3



#27  
1,2-Dichloroethane  
Concen: 2.495 ug/L  
RT: 6.16 min Scan# 832  
Delta R.T. 0.00 min  
Lab File: VX019217.D  
Acq: 02 Nov 2020 17:26

Tgt Ion: 62 Resp: 10546  
Ion Ratio Lower Upper  
62 100  
98 12.6 7.6 11.4#





#29

Cyclohexane

Concen: 2.312 ug/L

RT: 5.55 min Scan# 732

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

MDL-ME-SOIL-02

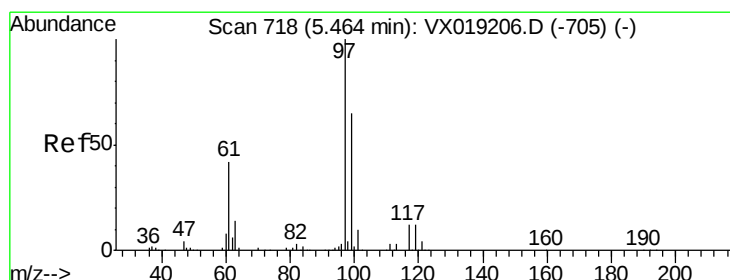
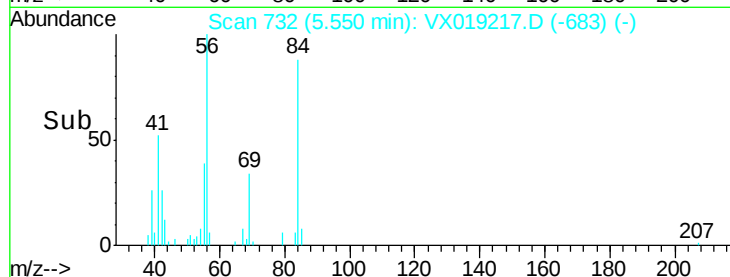
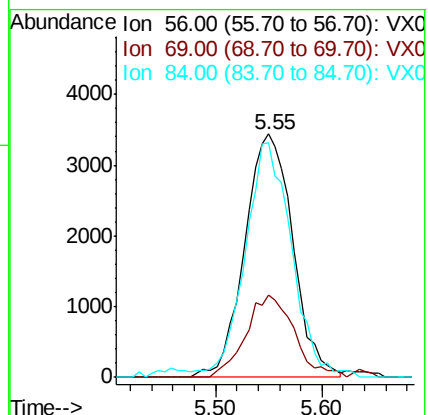
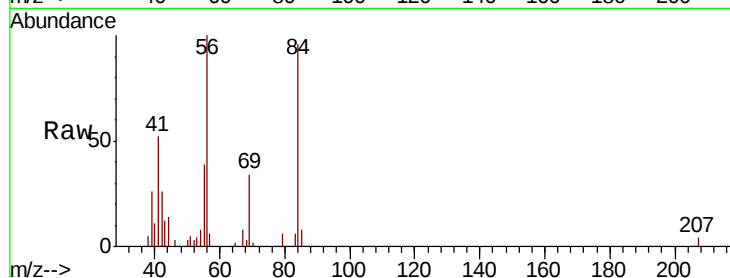
Tot Ion: 56 Resp: 10892

Ion Ratio Lower Upper

56 100

69 33.8 25.2 37.8

84 91.5 73.6 110.4



#30

1,1,1-Trichloroethane

Concen: 2.256 ug/L

RT: 5.46 min Scan# 718

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

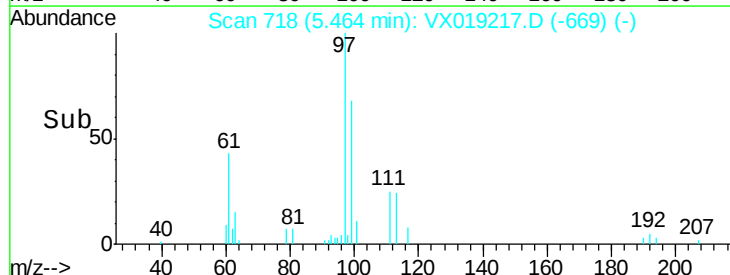
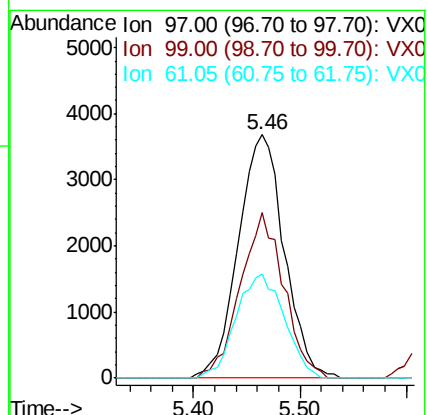
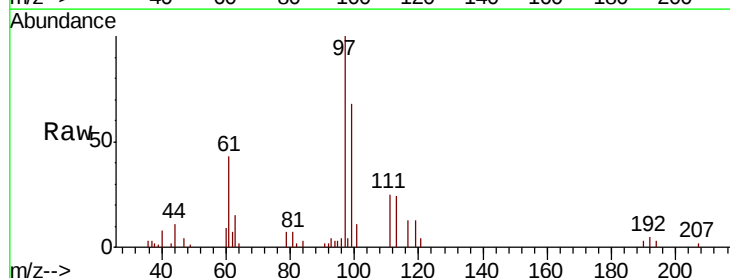
Tgt Ion: 97 Resp: 11129

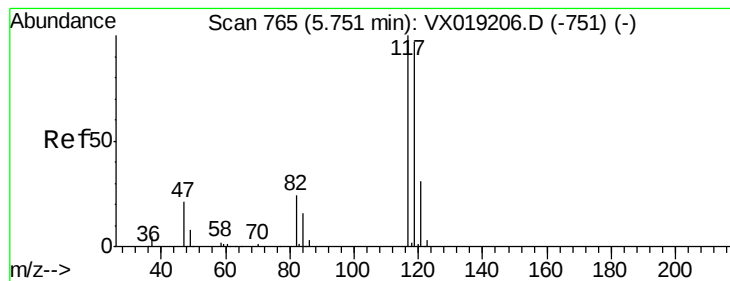
Ion Ratio Lower Upper

97 100

99 64.4 51.0 76.6

61 44.9 34.8 52.2





#31

Carbon tetrachloride

Concen: 2.224 ug/L

RT: 5.76 min Scan# 766

Delta R.T. 0.01 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

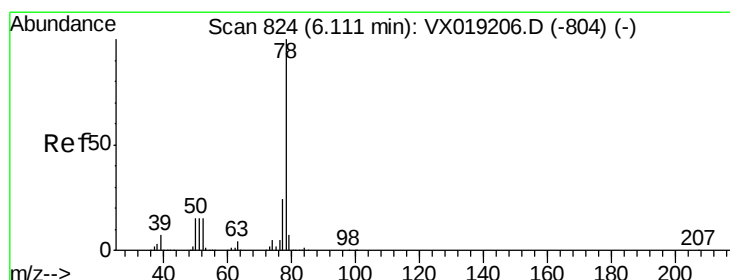
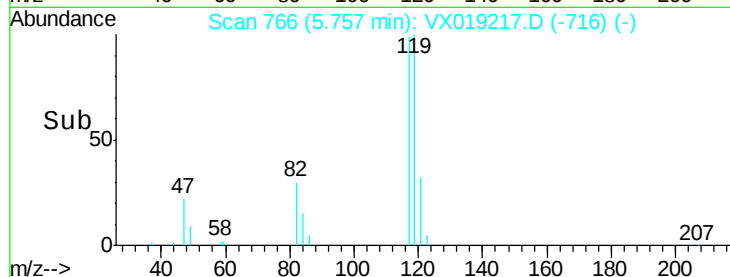
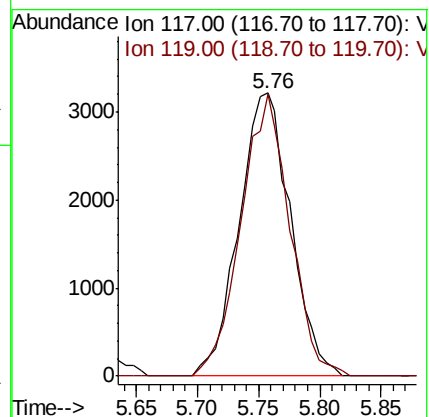
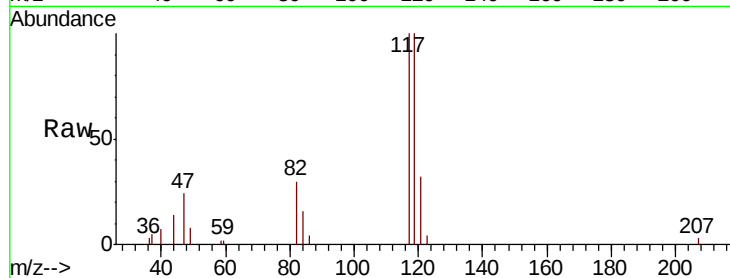
MDL-ME-SOIL-02

Tot Ion:117 Resp: 9426

Ion Ratio Lower Upper

117 100

119 94.1 76.9 115.3



#33

Benzene

Concen: 2.385 ug/L

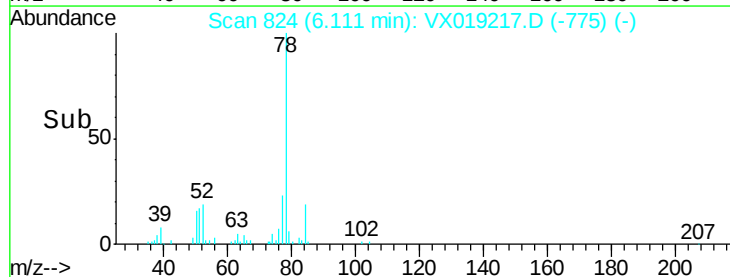
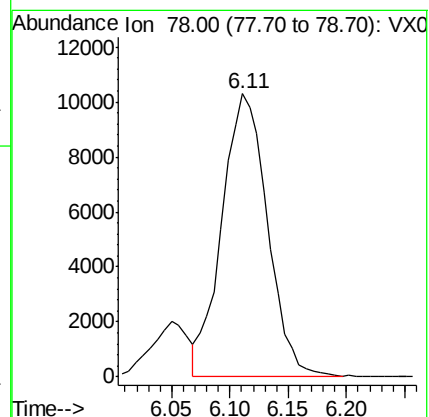
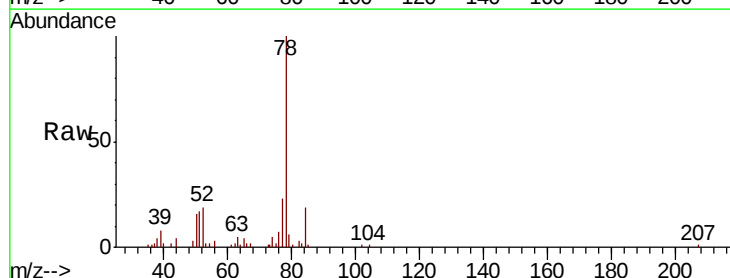
RT: 6.11 min Scan# 824

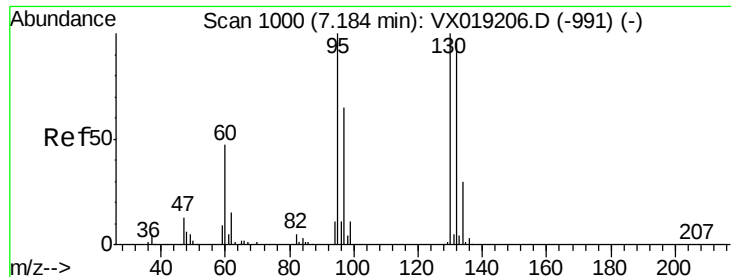
Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Tgt Ion: 78 Resp: 28029

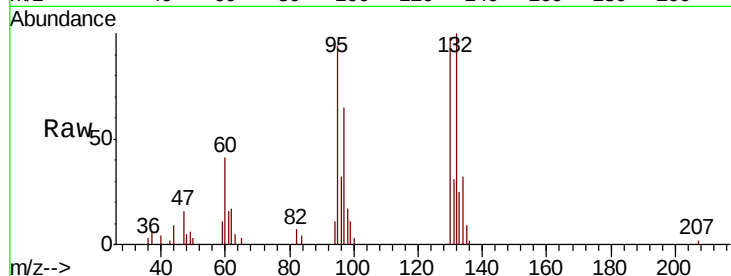




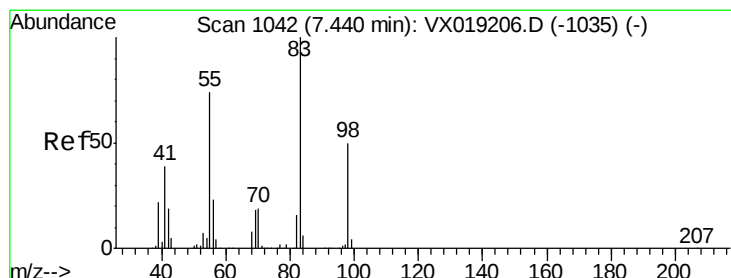
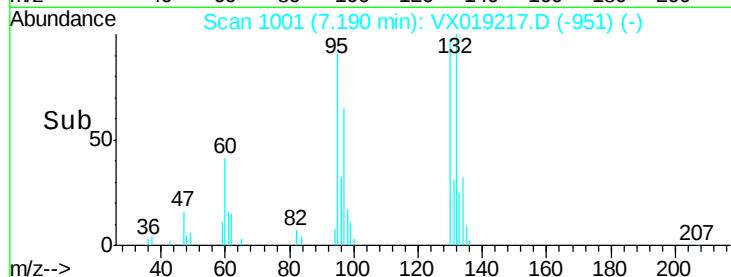
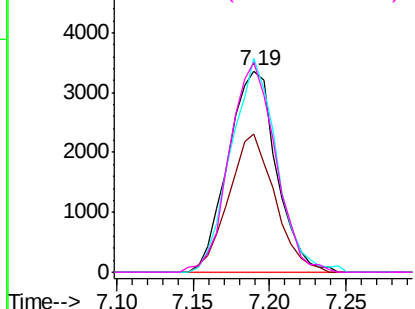
#34  
 Trichloroethene  
 Concen: 2.304 ug/L  
 RT: 7.19 min Scan# 1001  
 Delta R.T. 0.01 min  
 Lab File: VX019217.D  
 Acq: 02 Nov 2020 17:26

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-ME-SOIL-02

Tot Ion: 95 Resp: 7390  
 Ion Ratio Lower Upper  
 95 100  
 97 68.8 45.1 83.9  
 132 106.2 67.3 124.9  
 130 104.2 69.9 129.9

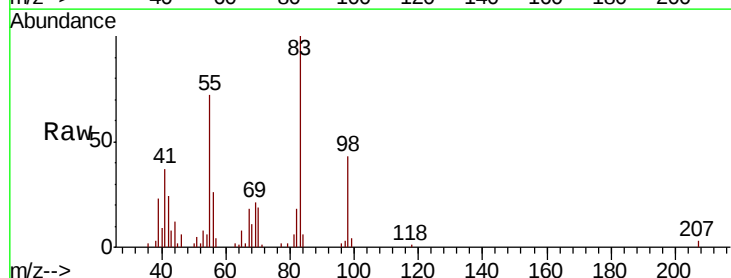


Abundance Ion 95.00 (94.70 to 95.70): VX0  
 Ion 97.00 (96.70 to 97.70): VX0  
 Ion 132.00 (131.70 to 132.70): V  
 Ion 130.00 (129.70 to 130.70): V

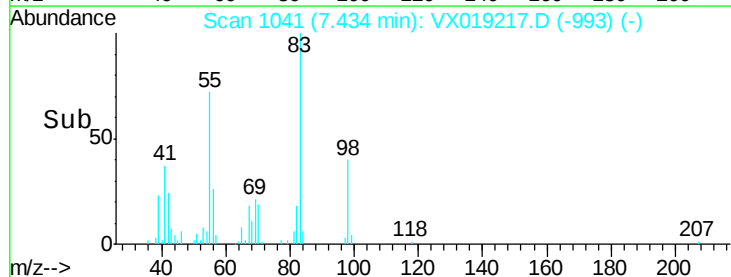
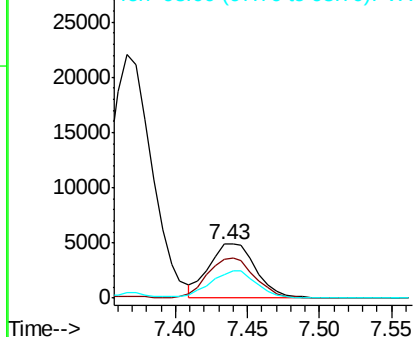


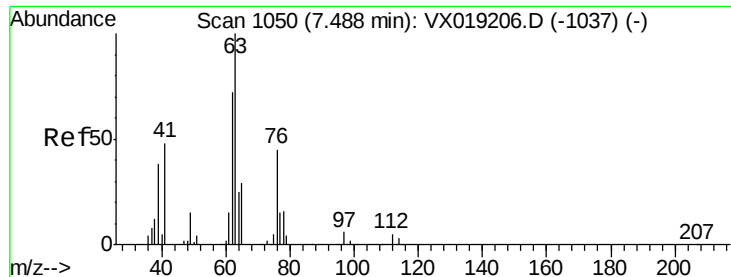
#35  
 Methylcyclohexane  
 Concen: 2.197 ug/L  
 RT: 7.43 min Scan# 1041  
 Delta R.T. -0.01 min  
 Lab File: VX019217.D  
 Acq: 02 Nov 2020 17:26

Tgt Ion: 83 Resp: 11150  
 Ion Ratio Lower Upper  
 83 100  
 55 74.7 58.6 87.8  
 98 49.3 39.0 58.6



Abundance Ion 83.00 (82.70 to 83.70): VX0  
 Ion 55.00 (54.70 to 55.70): VX0  
 Ion 98.00 (97.70 to 98.70): VX0





#37

1,2-Dichloropropane

Concen: 2.279 ug/L

RT: 7.48 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

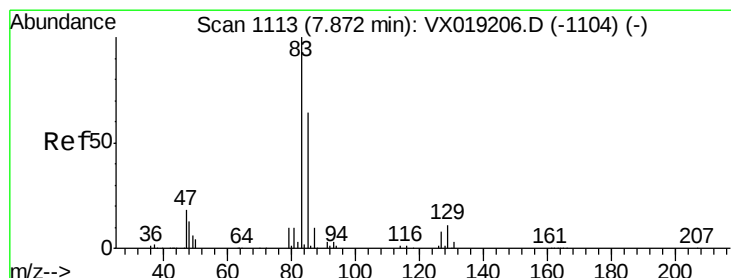
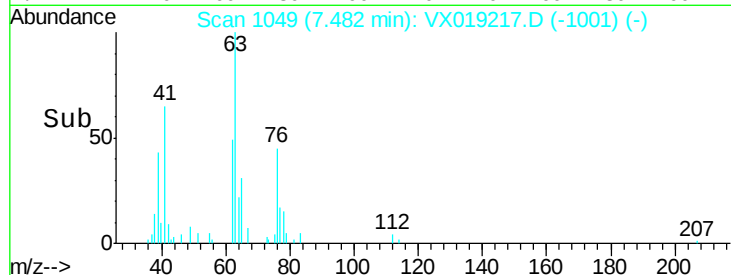
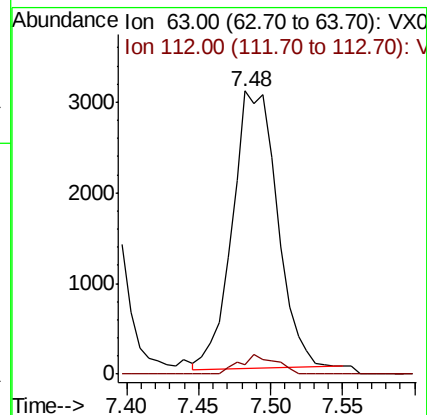
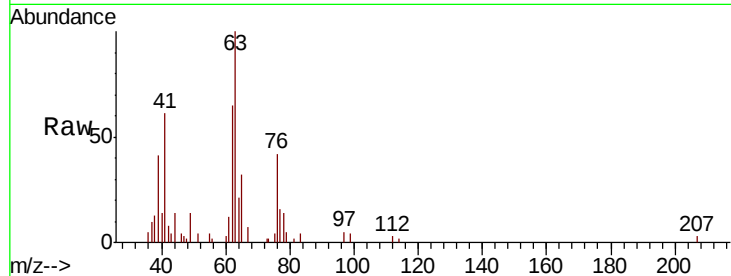
MDL-ME-SOIL-02

Tot Ion: 63 Resp: 6650

Ion Ratio Lower Upper

63 100

112 5.7 3.8 5.6#



#38

Bromodichloromethane

Concen: 2.221 ug/L

RT: 7.87 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

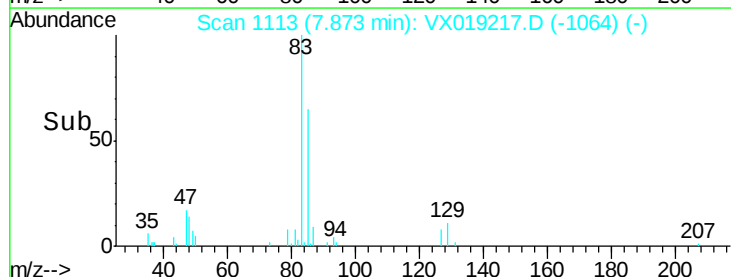
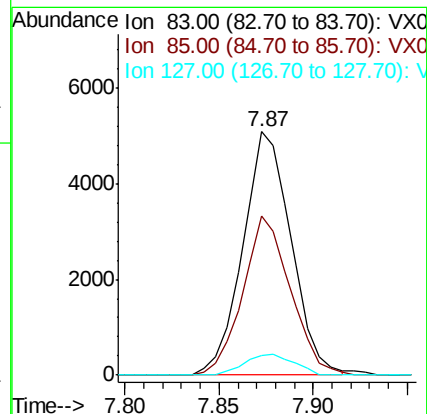
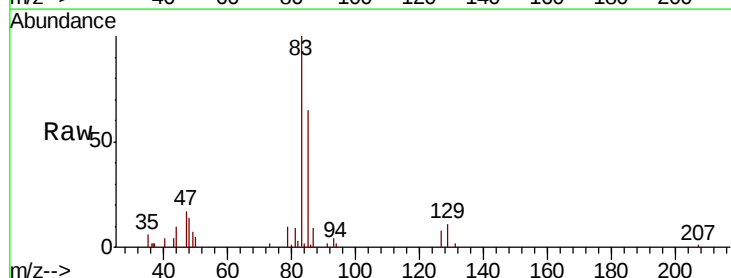
Tgt Ion: 83 Resp: 9013

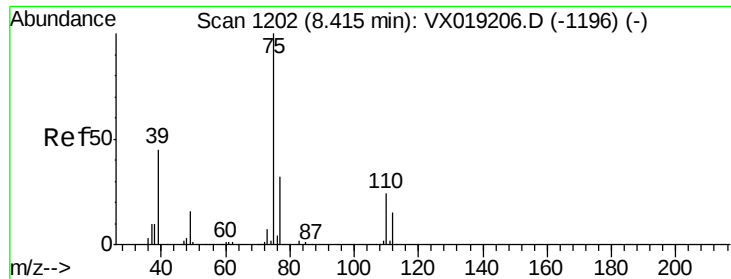
Ion Ratio Lower Upper

83 100

85 65.1 44.6 82.8

127 8.2 6.8 10.2





#39

cis-1,3-Dichloropropene

Concen: 2.319 ug/L

RT: 8.42 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

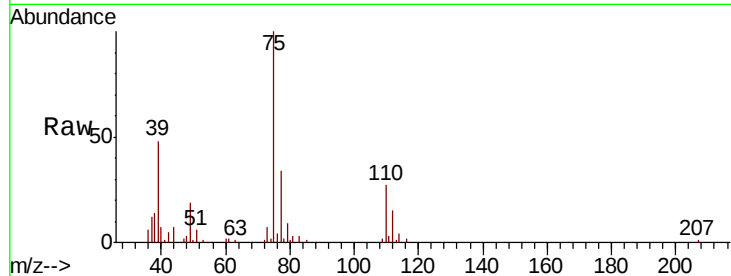
MDL-ME-SOIL-02

Tot Ion: 75 Resp: 11247

Ion Ratio Lower Upper

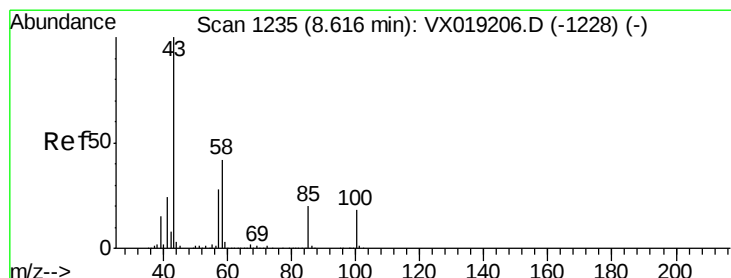
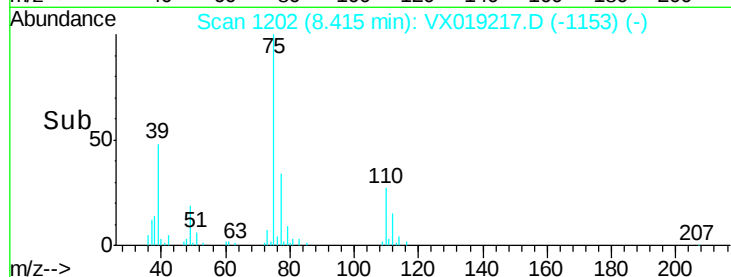
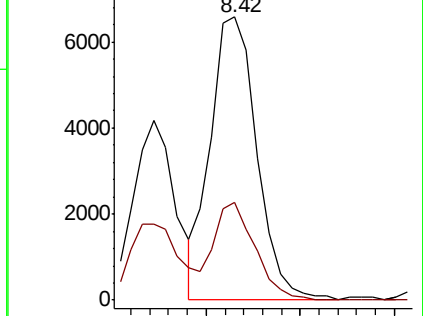
75 100

77 34.5 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



#40

4-Methyl-2-pentanone

Concen: 4.821 ug/L

RT: 8.62 min Scan# 1236

Delta R.T. 0.01 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

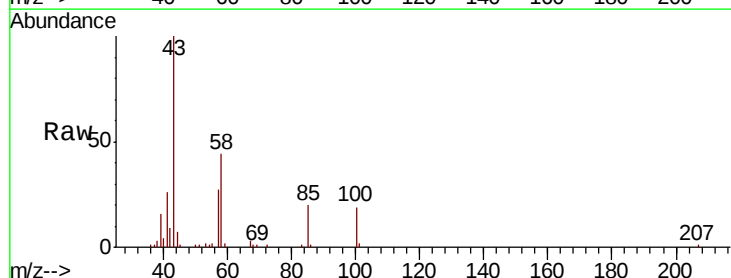
Tgt Ion: 43 Resp: 17209

Ion Ratio Lower Upper

43 100

58 43.0 34.1 51.1

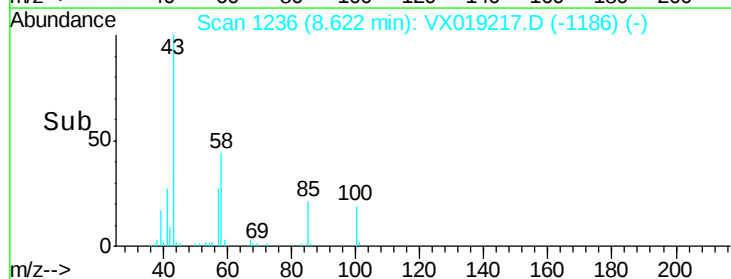
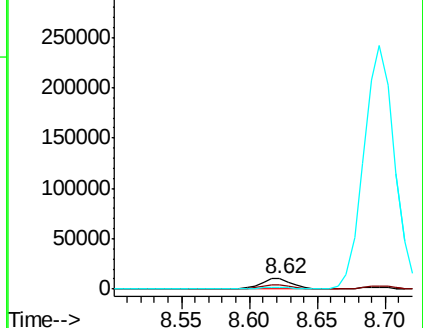
100 18.2 14.8 22.2

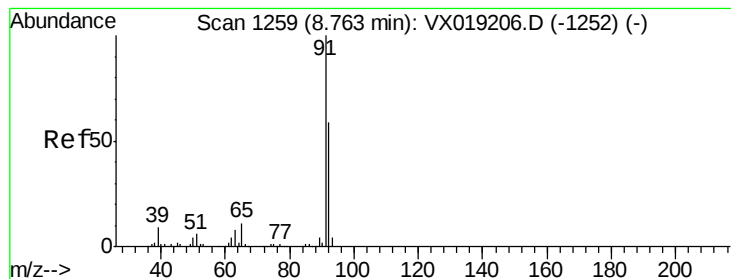


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#42

Toluene

Concen: 2.963 ug/L

RT: 8.76 min Scan# 1259

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

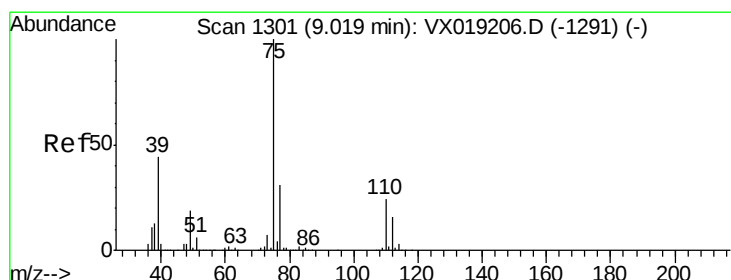
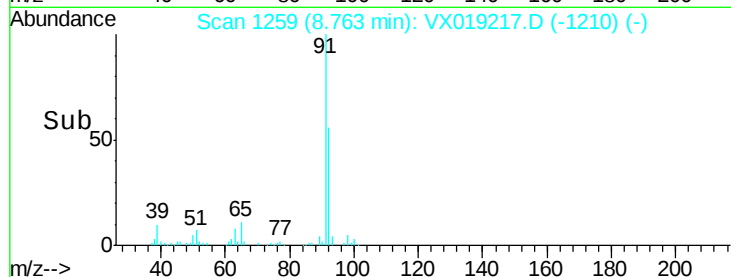
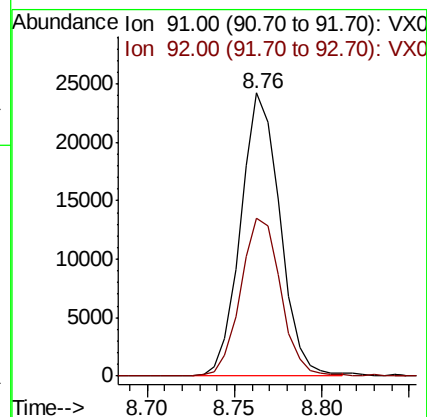
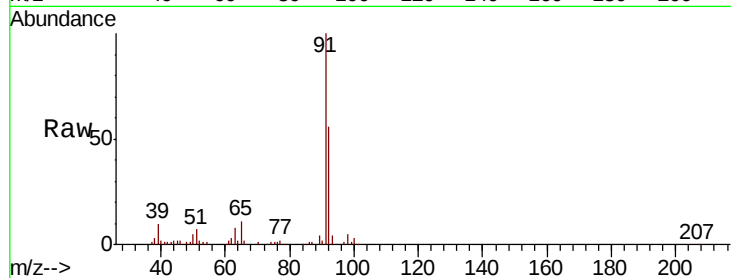
MDL-ME-SOIL-02

Tot Ion: 91 Resp: 37872

Ion Ratio Lower Upper

91 100

92 55.7 41.2 76.6



#44

trans-1,3-Dichloropropene

Concen: 2.361 ug/L

RT: 9.02 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VX019217.D

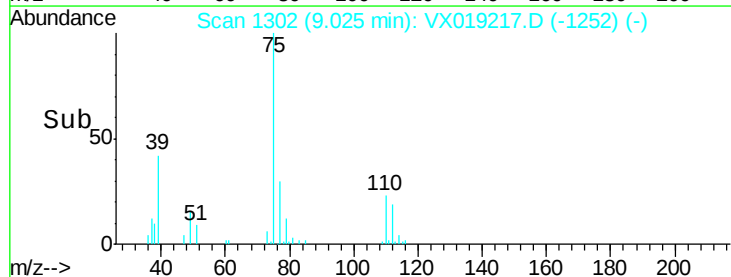
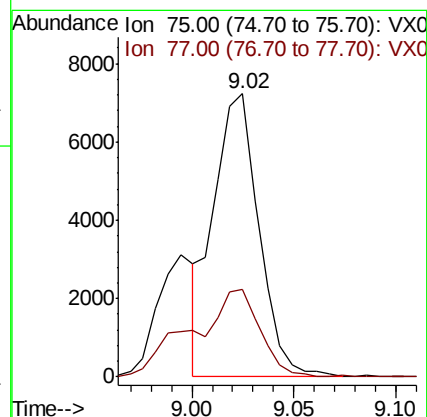
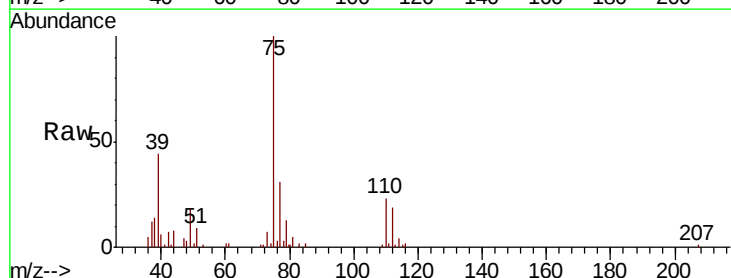
Acq: 02 Nov 2020 17:26

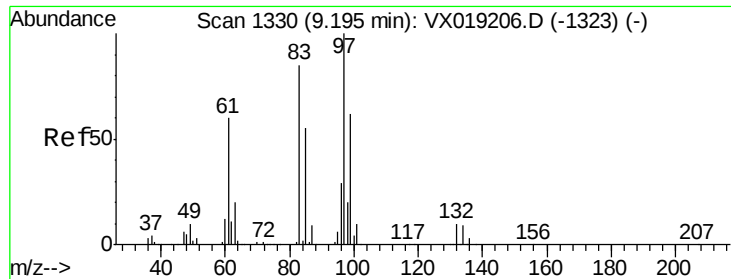
Tgt Ion: 75 Resp: 11153

Ion Ratio Lower Upper

75 100

77 30.9 21.8 40.6

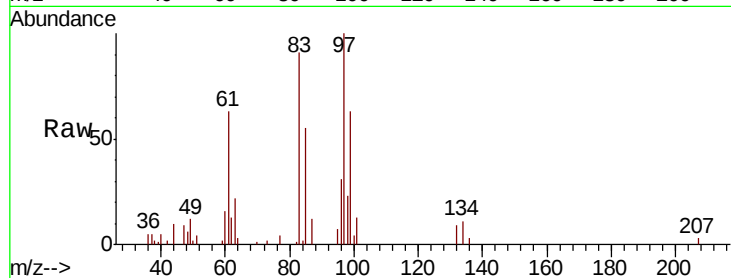




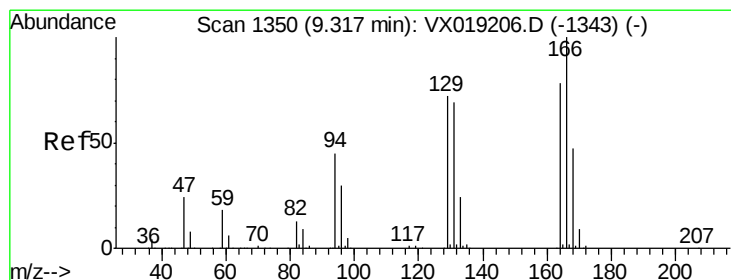
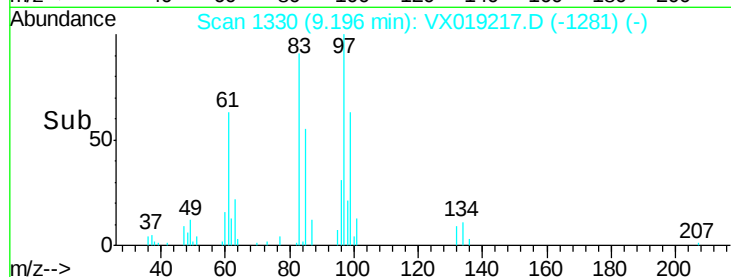
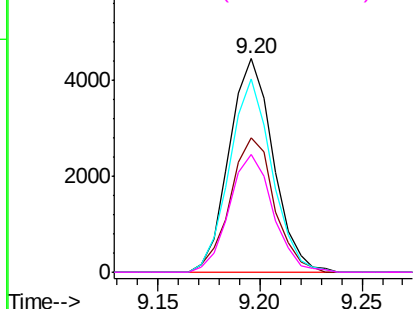
#45  
1,1,2-Trichloroethane  
Concen: 2.330 ug/L  
RT: 9.20 min Scan# 1330  
Delta R.T. 0.00 min  
Lab File: VX019217.D  
Acq: 02 Nov 2020 17:26

Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL-ME-SOIL-02

| Tot Ion: | 97    | Resp: | 6679  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 62.8  | 43.3  | 80.3  |
| 83       | 90.5  | 59.4  | 110.4 |
| 85       | 55.3  | 38.7  | 71.9  |

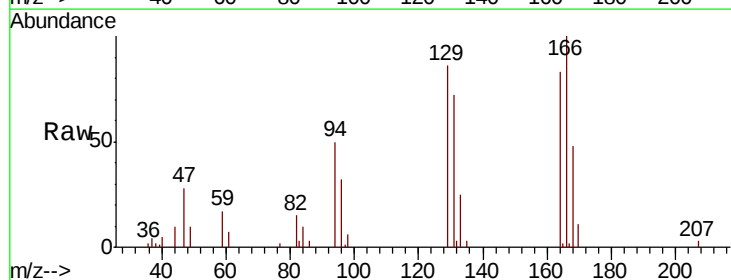


Abundance Ion 97.00 (96.70 to 97.70): VX0  
Ion 99.00 (98.70 to 99.70): VX0  
Ion 83.00 (82.70 to 83.70): VX0  
Ion 85.00 (84.70 to 85.70): VX0

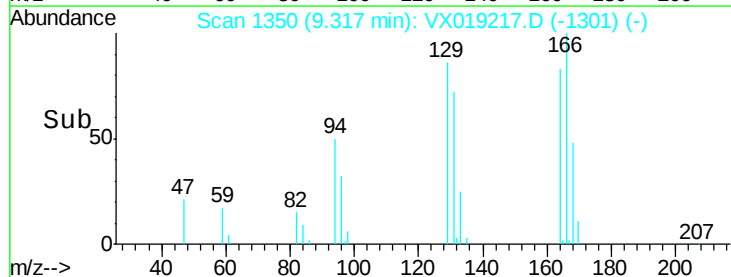
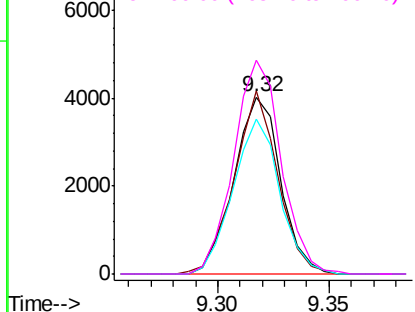


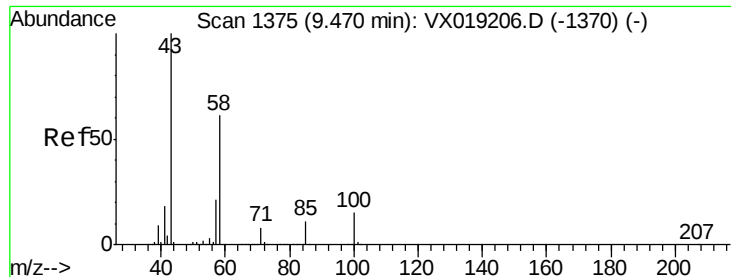
#46  
Tetrachloroethene  
Concen: 2.435 ug/L  
RT: 9.32 min Scan# 1350  
Delta R.T. 0.00 min  
Lab File: VX019217.D  
Acq: 02 Nov 2020 17:26

| Tgt Ion: | 164   | Resp: | 5892  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 129      | 103.4 | 65.2  | 121.2 |
| 131      | 87.5  | 62.5  | 116.1 |
| 166      | 120.9 | 90.2  | 167.6 |



Abundance Ion 164.00 (163.70 to 164.70): V  
Ion 129.00 (128.70 to 129.70): V  
Ion 131.00 (130.70 to 131.70): V  
Ion 166.00 (165.70 to 166.70): V

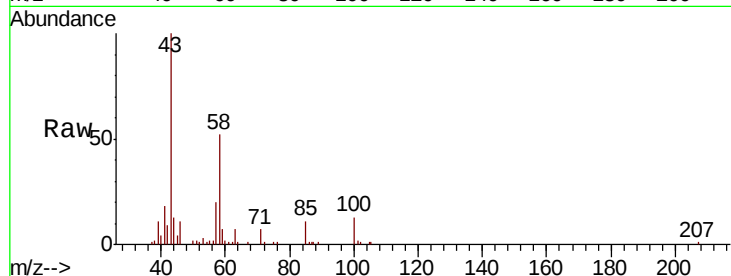




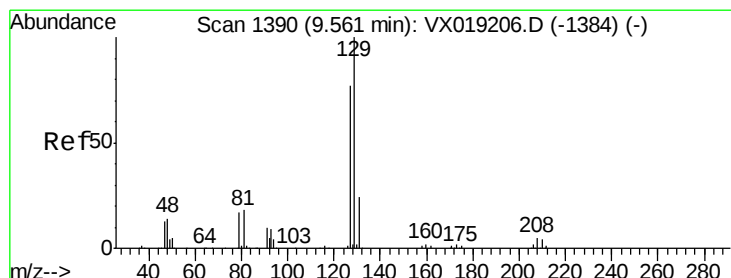
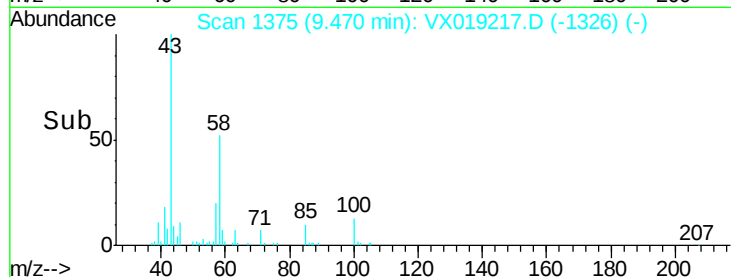
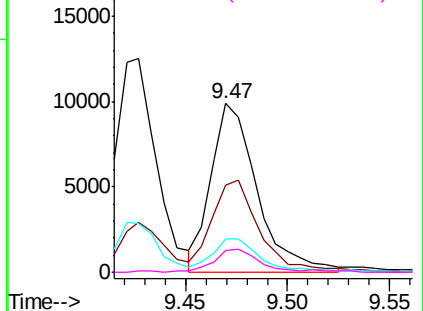
#48  
2-Hexanone  
Concen: 5.486 ug/L  
RT: 9.47 min Scan# 1375  
Delta R.T. 0.00 min  
Lab File: VX019217.D  
Acq: 02 Nov 2020 17:26

Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL-ME-SOIL-02

Tot Ion: 43 Resp: 15429  
Ion Ratio Lower Upper  
43 100  
58 57.3 48.2 72.2  
57 21.2 17.1 25.7  
100 13.4 11.8 17.8

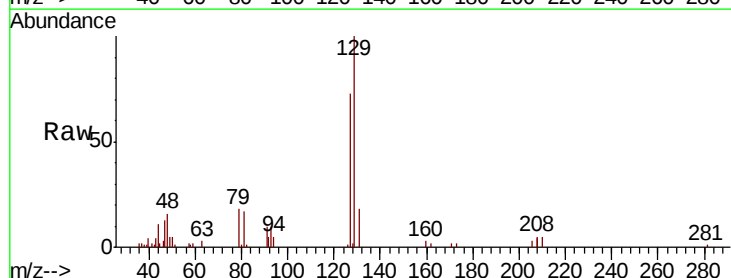


Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0  
Ion 57.00 (56.70 to 57.70): VX0  
Ion 100.00 (99.70 to 100.70): V

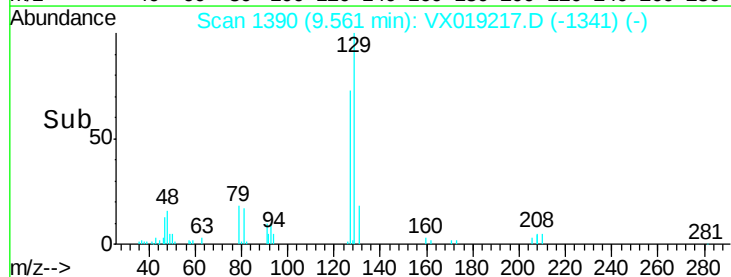
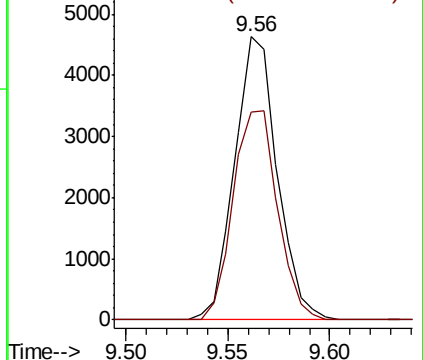


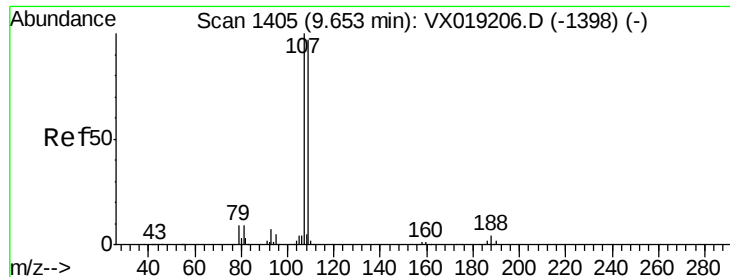
#49  
Dibromochloromethane  
Concen: 2.141 ug/L  
RT: 9.56 min Scan# 1390  
Delta R.T. 0.00 min  
Lab File: VX019217.D  
Acq: 02 Nov 2020 17:26

Tgt Ion: 129 Resp: 6715  
Ion Ratio Lower Upper  
129 100  
127 73.5 54.0 100.2



Abundance Ion 129.00 (128.70 to 129.70): V  
Ion 127.00 (126.70 to 127.70): V

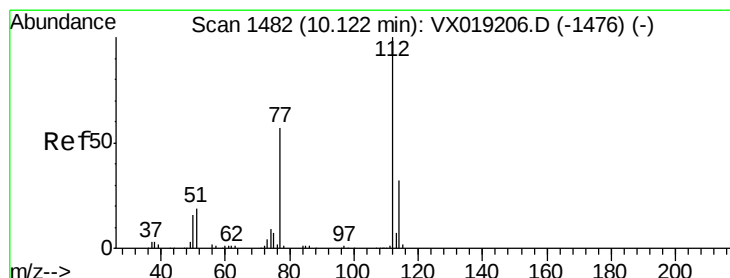
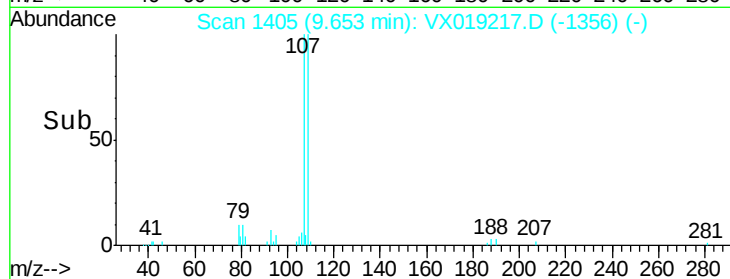
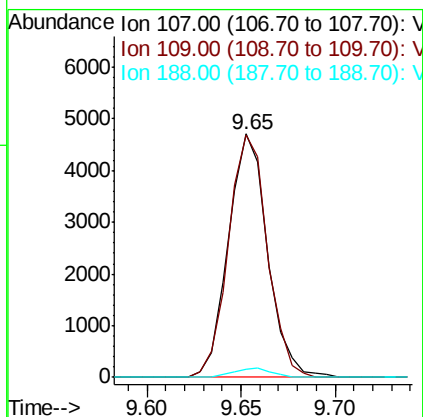
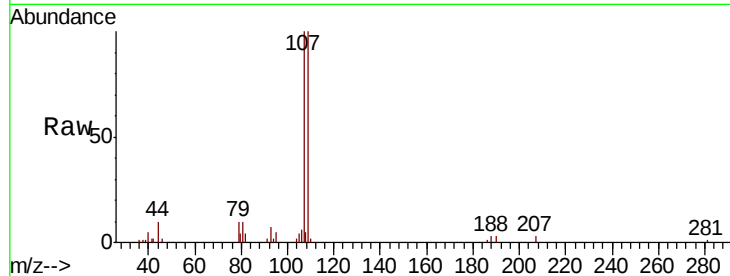




#50  
1,2-Dibromoethane  
Concen: 2.270 ug/L  
RT: 9.65 min Scan# 1405  
Delta R.T. 0.00 min  
Lab File: VX019217.D  
Acq: 02 Nov 2020 17:26

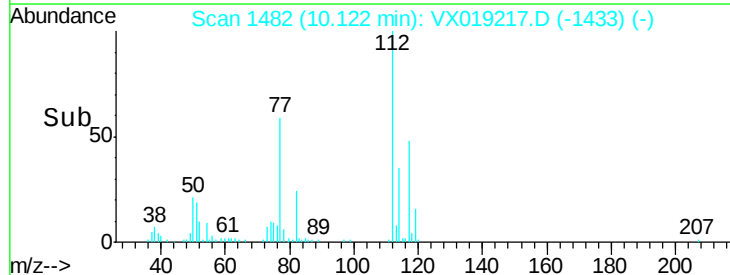
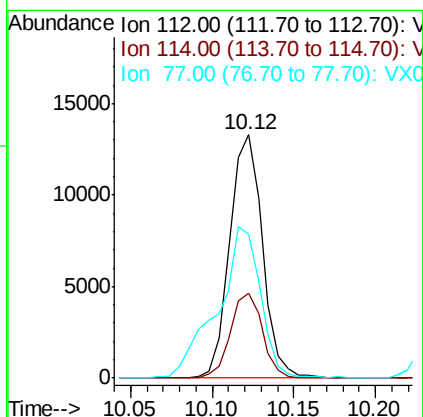
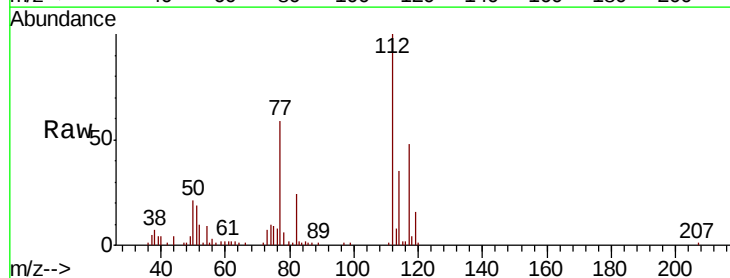
Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL-ME-SOIL-02

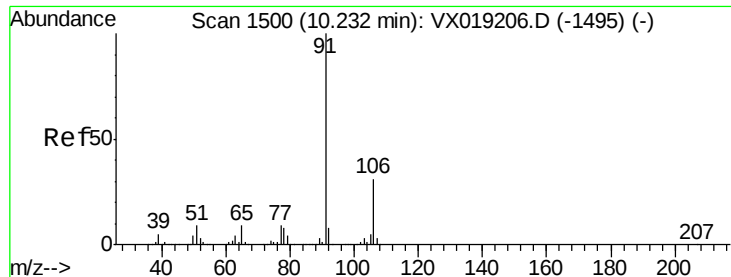
Tot Ion:107 Resp: 6806  
Ion Ratio Lower Upper  
107 100  
109 99.6 68.1 126.5  
188 3.4 3.0 4.4



#51  
Chlorobenzene  
Concen: 2.340 ug/L  
RT: 10.12 min Scan# 1482  
Delta R.T. 0.00 min  
Lab File: VX019217.D  
Acq: 02 Nov 2020 17:26

Tgt Ion:112 Resp: 18601  
Ion Ratio Lower Upper  
112 100  
114 35.0 22.2 41.2  
77 59.2 46.2 69.4





#52

Ethylbenzene

Concen: 2.308 ug/L

RT: 10.23 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

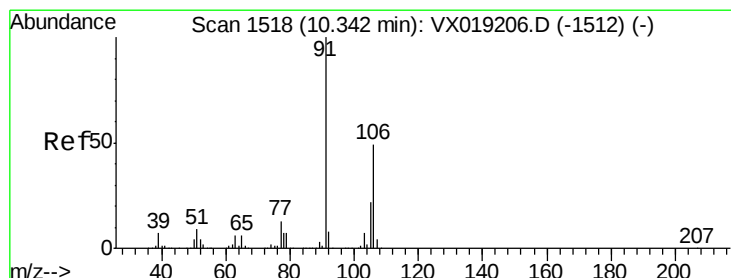
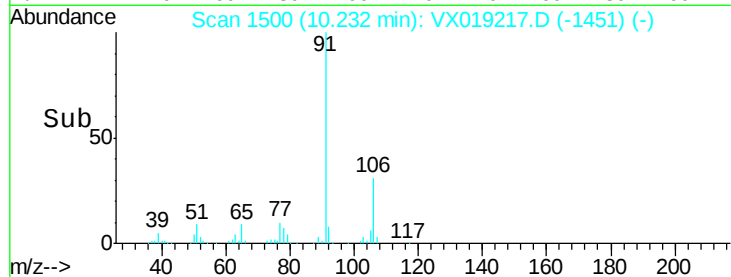
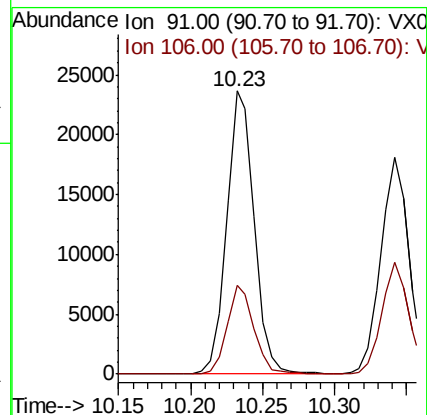
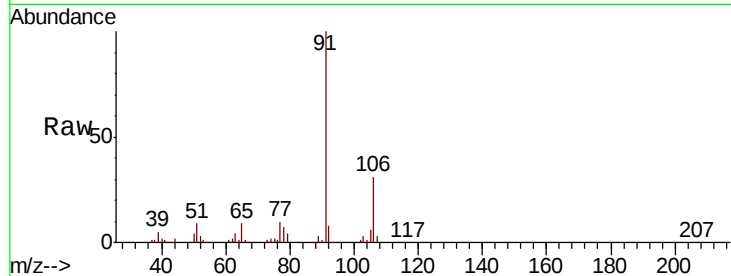
MDL-ME-SOIL-02

Tot Ion: 91 Resp: 31884

Ion Ratio Lower Upper

91 100

106 31.3 21.5 39.9



#53

m,p-Xylene

Concen: 2.322 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX019217.D

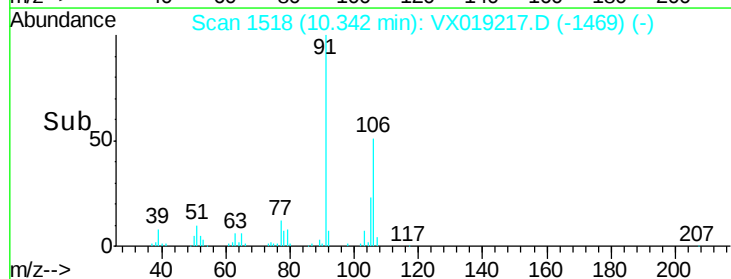
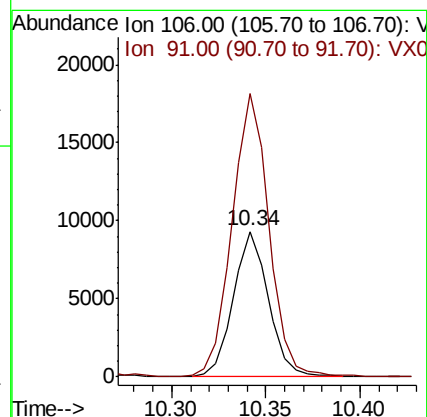
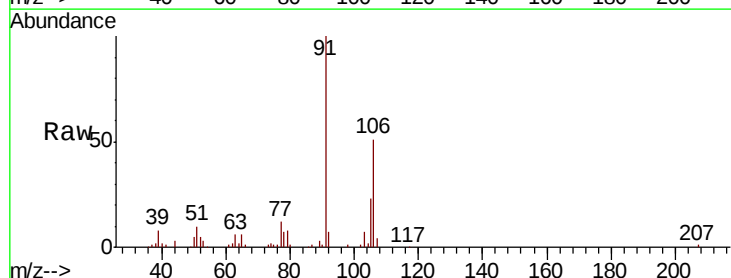
Acq: 02 Nov 2020 17:26

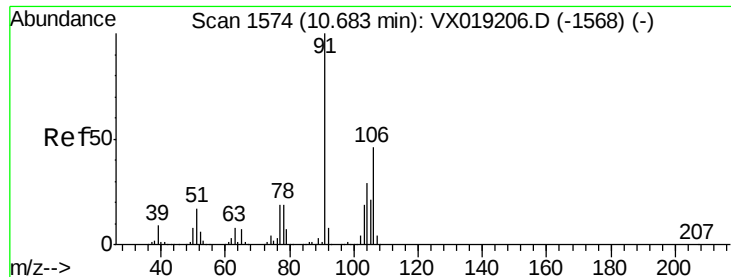
Tgt Ion: 106 Resp: 12052

Ion Ratio Lower Upper

106 100

91 194.2 144.2 267.8





#54

o-Xylene

Concen: 2.205 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

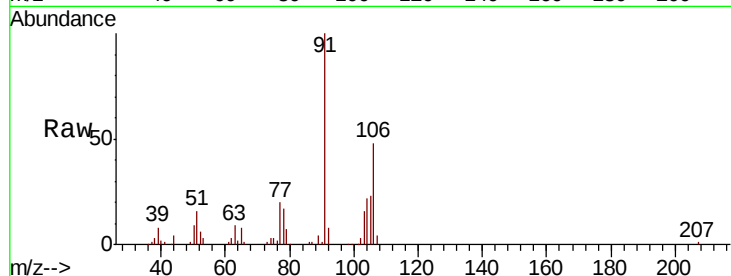
MDL-ME-SOIL-02

Tot Ion:106 Resp: 11084

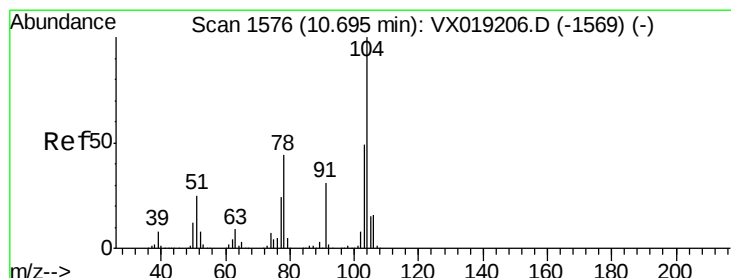
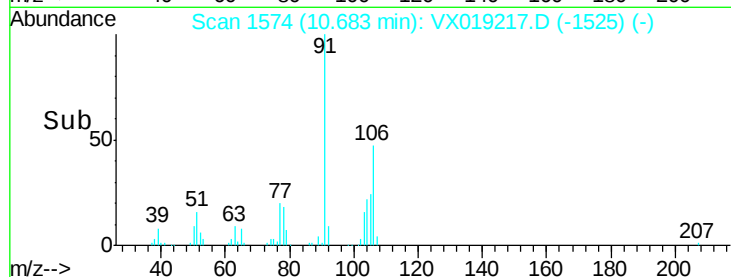
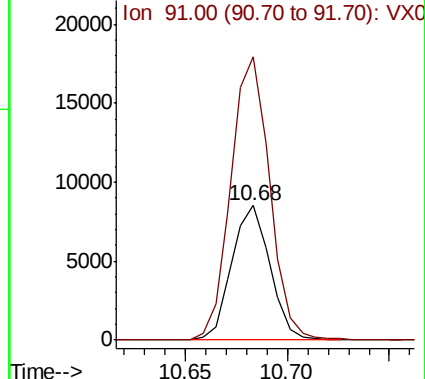
Ion Ratio Lower Upper

106 100

91 210.5 153.3 284.7



Abundance Ion 106.00 (105.70 to 106.70): V



#55

Styrene

Concen: 2.023 ug/L

RT: 10.70 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VX019217.D

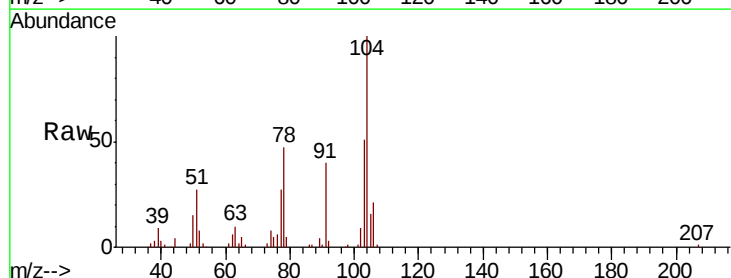
Acq: 02 Nov 2020 17:26

Tgt Ion:104 Resp: 17154

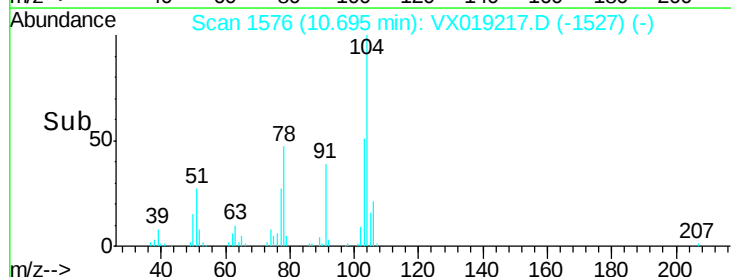
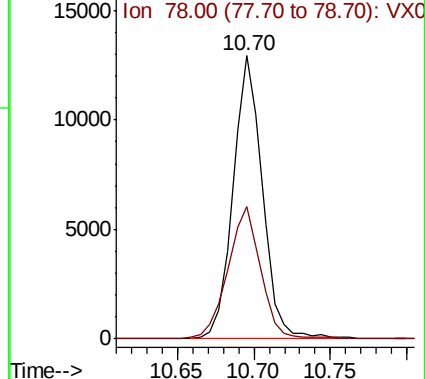
Ion Ratio Lower Upper

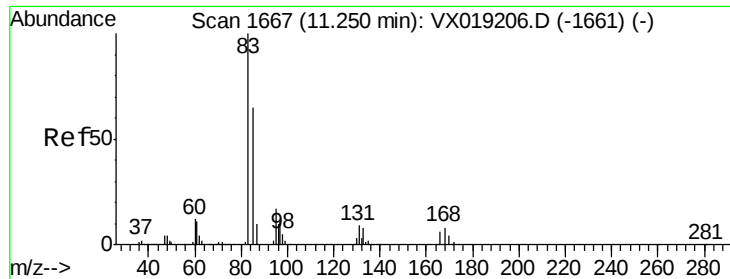
104 100

78 46.9 30.9 57.5



Abundance Ion 104.00 (103.70 to 104.70): V

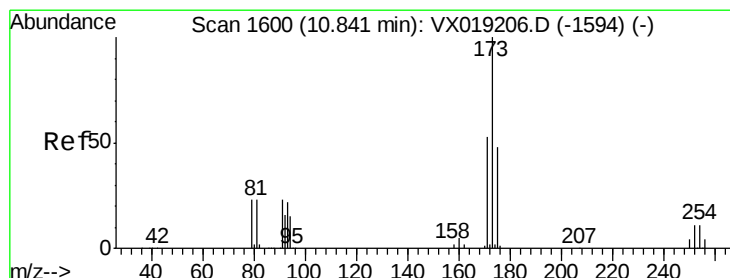
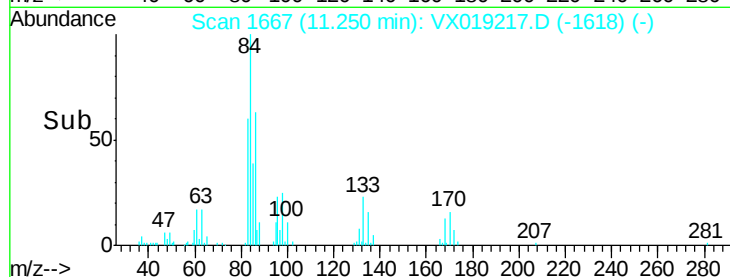
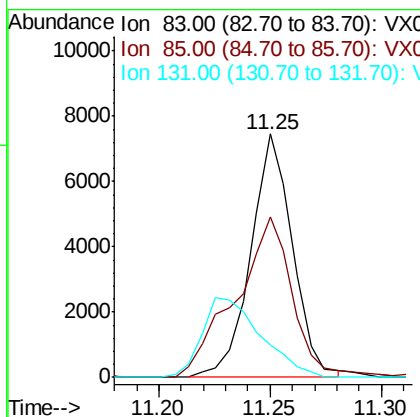
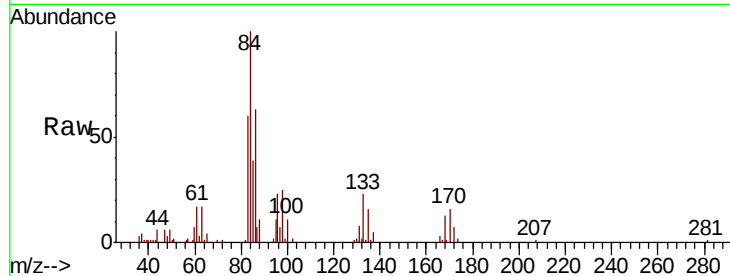




#57  
 1,1,2,2-Tetrachloroethane  
 Concen: 2.472 ug/L  
 RT: 11.25 min Scan# 1667  
 Delta R.T. 0.00 min  
 Lab File: VX019217.D  
 Acq: 02 Nov 2020 17:26

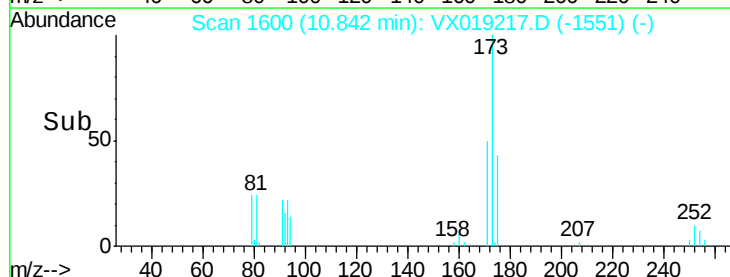
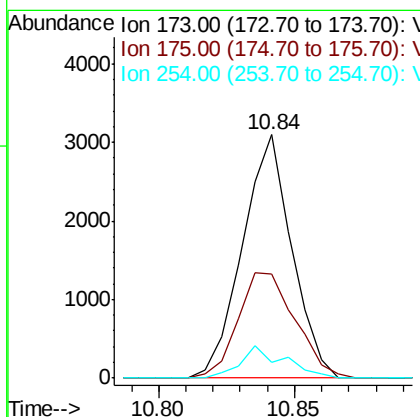
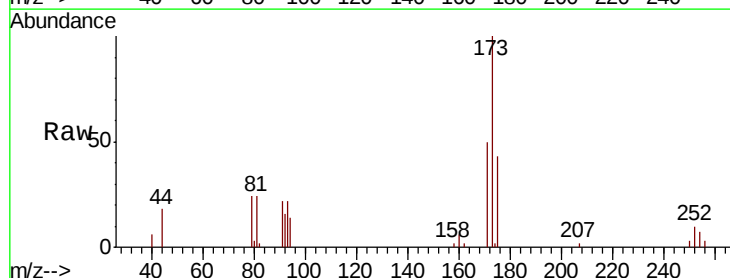
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-ME-SOIL-02

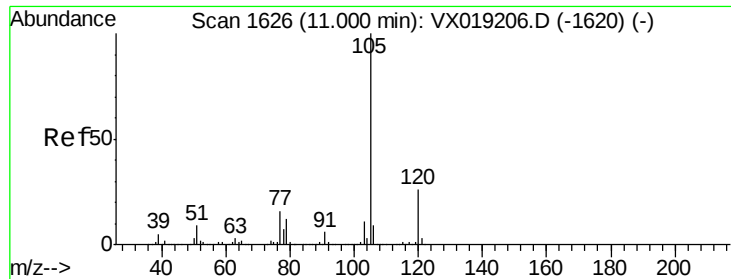
Tot Ion: 83 Resp: 9714  
 Ion Ratio Lower Upper  
 83 100  
 85 65.6 45.9 85.3  
 131 13.2 7.7 11.5#



#59  
 Bromoform  
 Concen: 2.001 ug/L  
 RT: 10.84 min Scan# 1600  
 Delta R.T. 0.00 min  
 Lab File: VX019217.D  
 Acq: 02 Nov 2020 17:26

Tgt Ion: 173 Resp: 3891  
 Ion Ratio Lower Upper  
 173 100  
 175 50.1 39.7 59.5  
 254 11.9 8.2 12.4





#60

Isopropylbenzene

Concen: 2.438 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

Instrument :

MSVOA\_X

ClientSampleId :

MDL-ME-SOIL-02

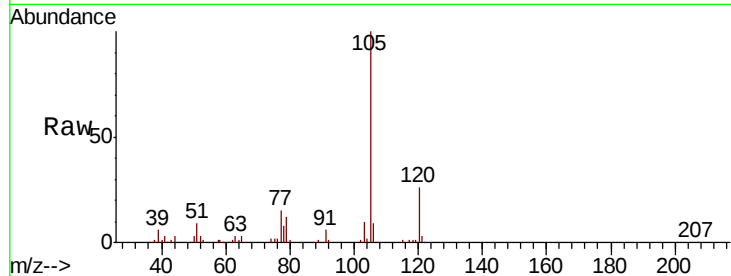
Tot Ion:105 Resp: 29691

Ion Ratio Lower Upper

105 100

120 26.0 21.1 31.7

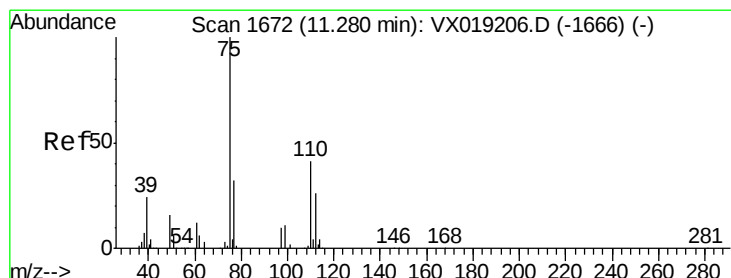
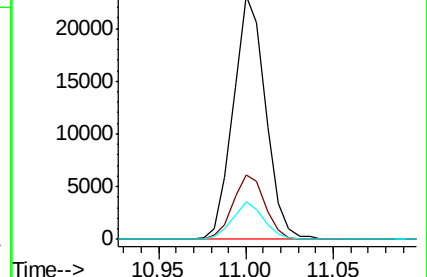
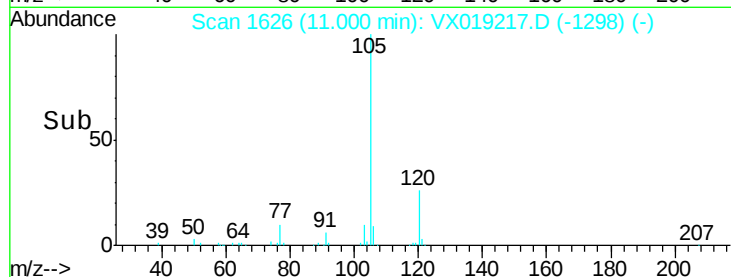
77 15.0 12.6 19.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#61

1,2,3-Trichloropropane

Concen: 2.552 ug/L

RT: 11.28 min Scan# 1672

Delta R.T. 0.00 min

Lab File: VX019217.D

Acq: 02 Nov 2020 17:26

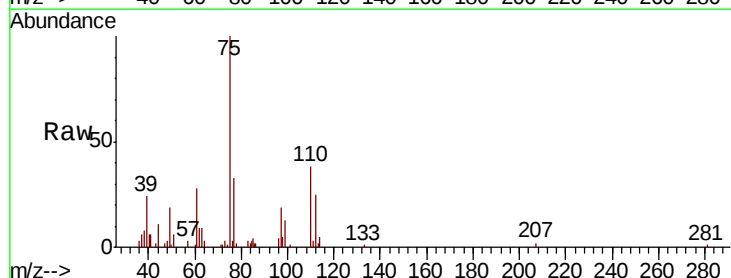
Tgt Ion: 75 Resp: 7801

Ion Ratio Lower Upper

75 100

77 33.8 25.4 38.0

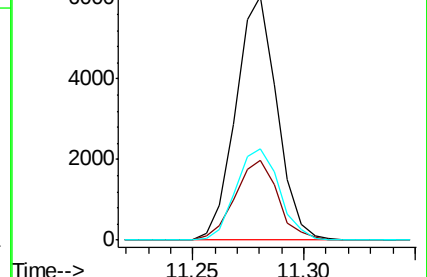
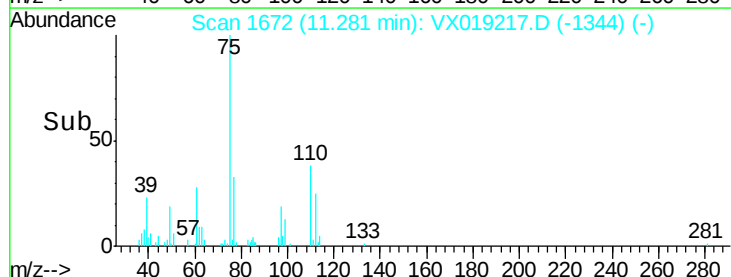
110 39.5 32.2 48.2

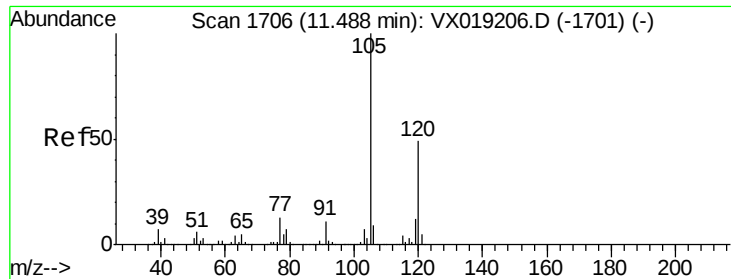


Abundance Ion 75.00 (74.70 to 75.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

Ion 110.00 (109.70 to 110.70): V

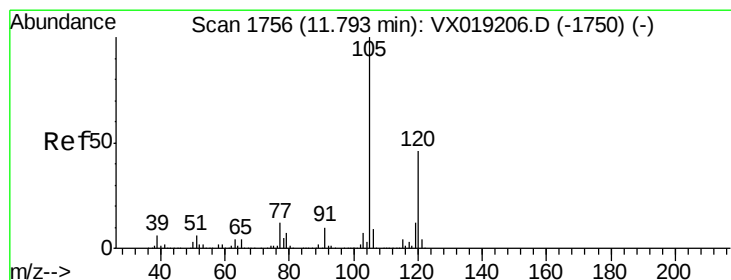
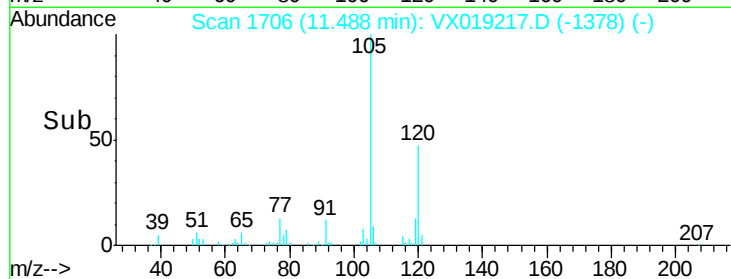
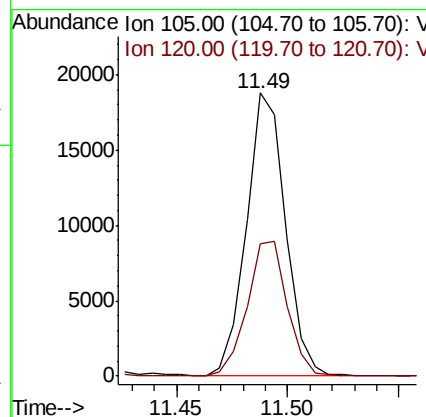
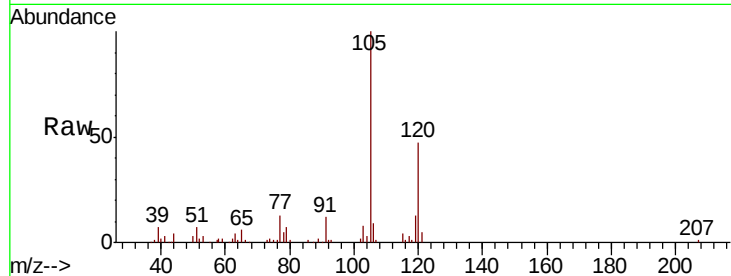




#62  
 1,3,5-Trimethylbenzene  
 Concen: 2.299 ug/L  
 RT: 11.49 min Scan# 1706  
 Delta R.T. 0.00 min  
 Lab File: VX019217.D  
 Acq: 02 Nov 2020 17:26

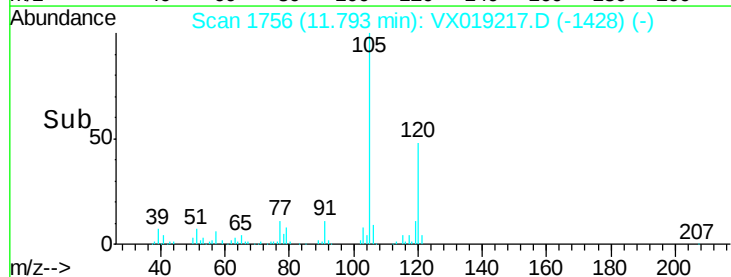
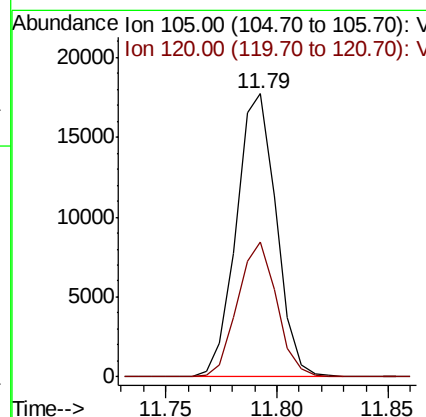
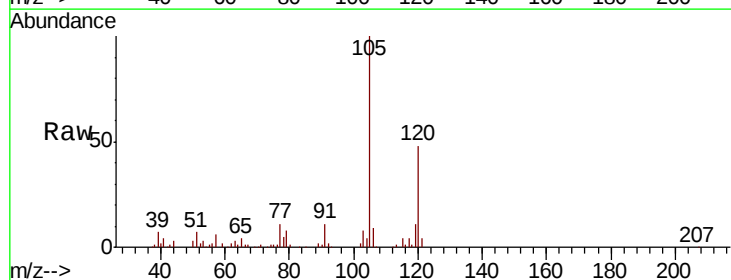
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-ME-SOIL-02

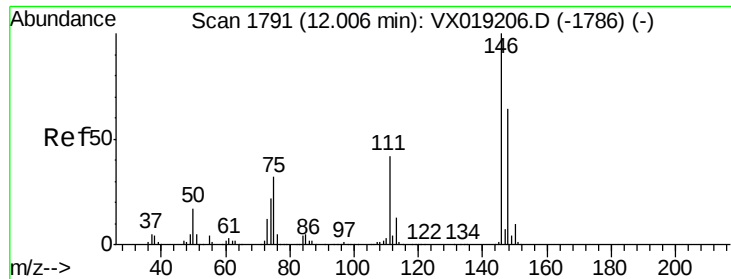
Tot Ion:105 Resp: 23040  
 Ion Ratio Lower Upper  
 105 100  
 120 48.8 38.8 58.2



#63  
 1,2,4-Trimethylbenzene  
 Concen: 2.333 ug/L  
 RT: 11.79 min Scan# 1756  
 Delta R.T. 0.00 min  
 Lab File: VX019217.D  
 Acq: 02 Nov 2020 17:26

Tgt Ion:105 Resp: 22115  
 Ion Ratio Lower Upper  
 105 100  
 120 46.7 36.0 54.0

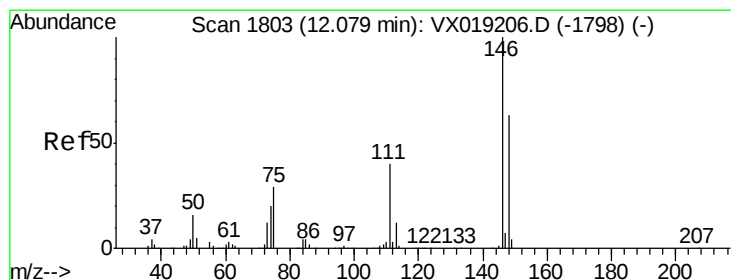
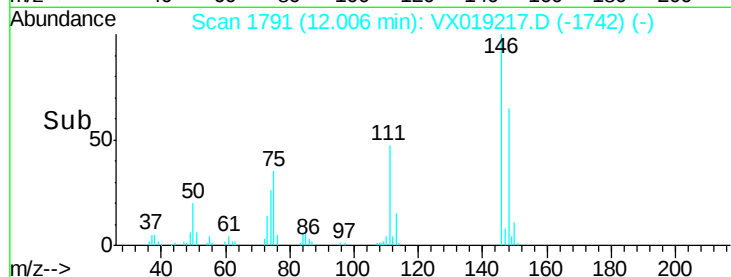
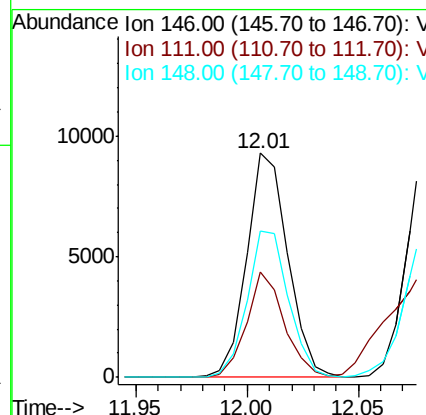
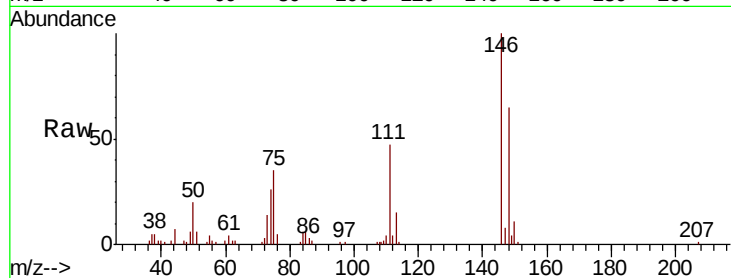




#64  
 1,3-Dichlorobenzene  
 Concen: 2.276 ug/L  
 RT: 12.01 min Scan# 1791  
 Delta R.T. 0.00 min  
 Lab File: VX019217.D  
 Acq: 02 Nov 2020 17:26

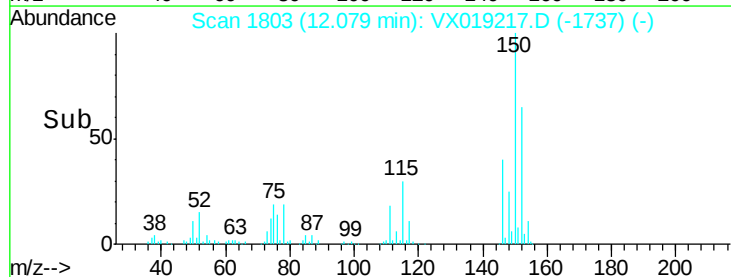
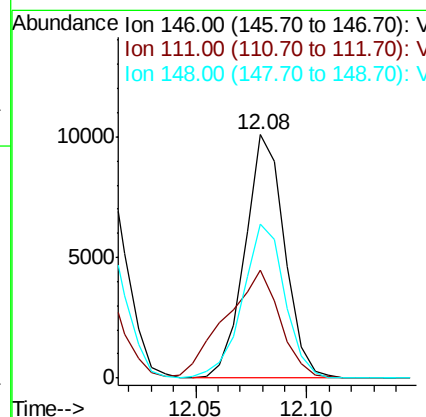
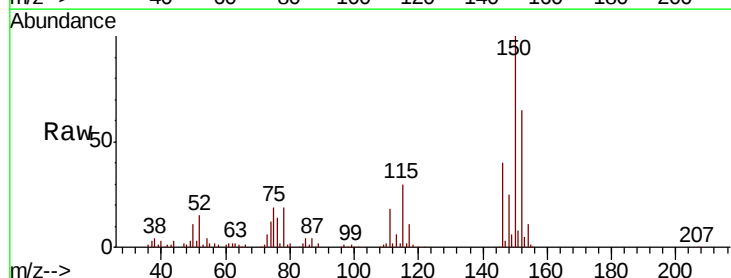
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-ME-SOIL-02

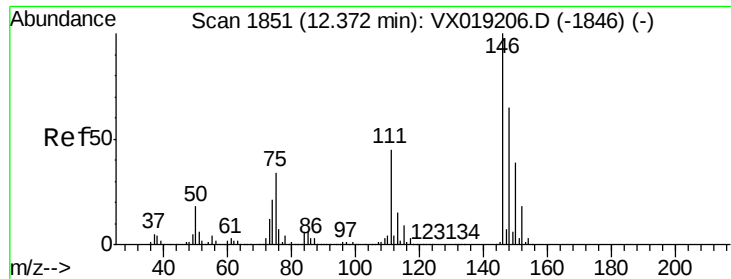
Tot Ion:146 Resp: 11967  
 Ion Ratio Lower Upper  
 146 100  
 111 46.9 29.7 55.1  
 148 65.1 44.5 82.7



#65  
 1,4-Dichlorobenzene  
 Concen: 2.356 ug/L  
 RT: 12.08 min Scan# 1803  
 Delta R.T. 0.00 min  
 Lab File: VX019217.D  
 Acq: 02 Nov 2020 17:26

Tgt Ion:146 Resp: 12574  
 Ion Ratio Lower Upper  
 146 100  
 111 44.5 28.1 52.3  
 148 63.2 43.8 81.4

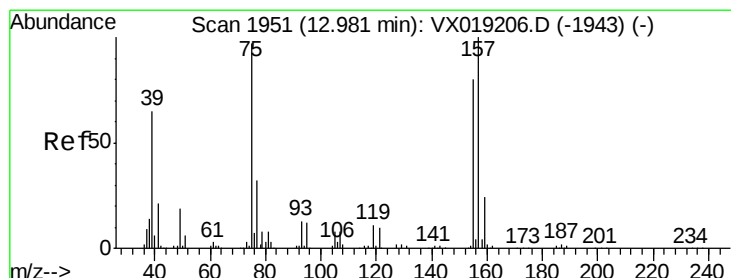
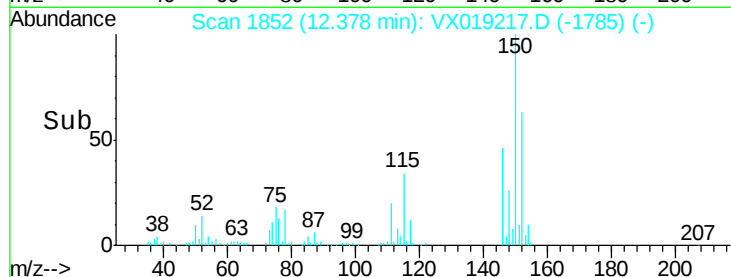
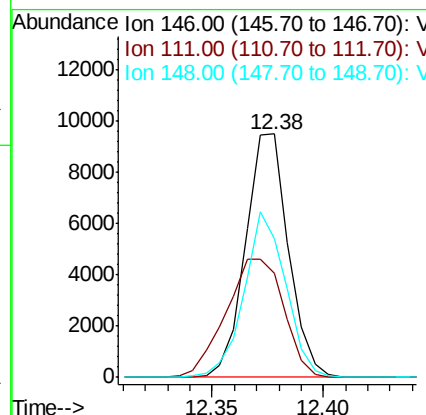
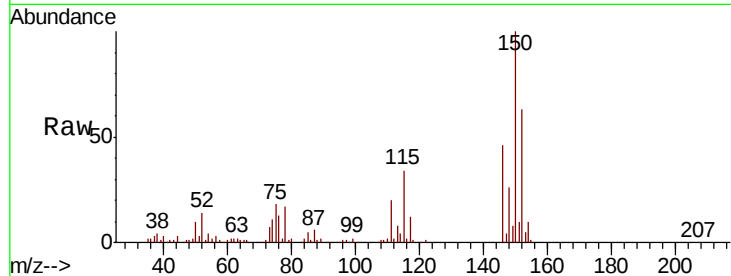




#67  
 1,2-Dichlorobenzene  
 Concen: 2.512 ug/L  
 RT: 12.38 min Scan# 1852  
 Delta R.T. 0.01 min  
 Lab File: VX019217.D  
 Acq: 02 Nov 2020 17:26

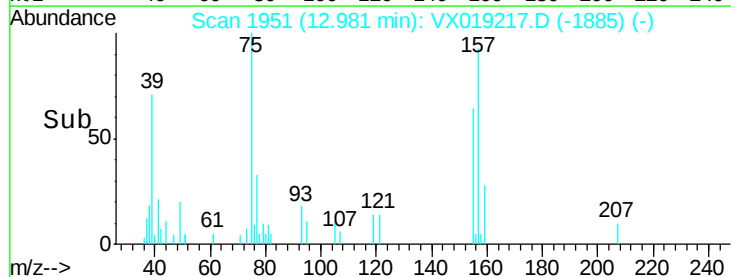
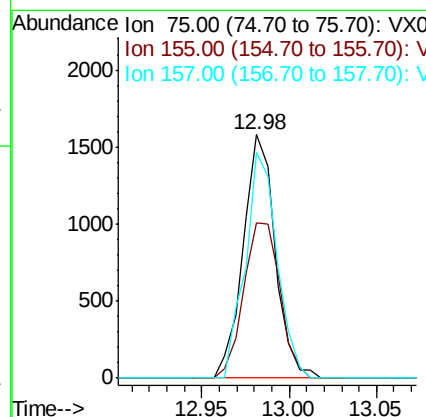
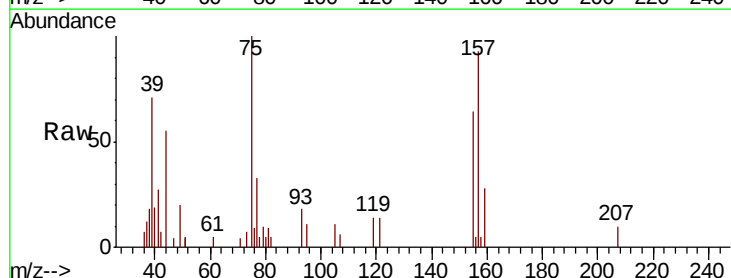
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-ME-SOIL-02

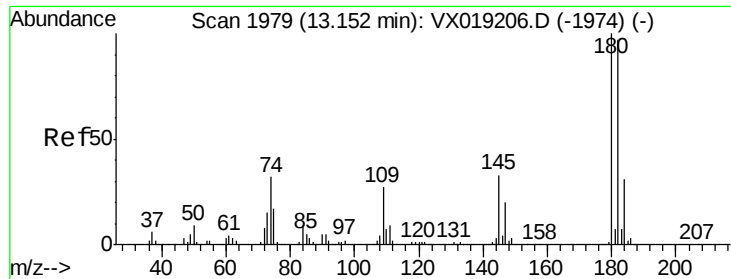
Tot Ion:146 Resp: 12790  
 Ion Ratio Lower Upper  
 146 100  
 111 43.0 35.9 53.9  
 148 56.8 52.2 78.4



#68  
 1,2-Dibromo-3-chloropropane  
 Concen: 2.412 ug/L  
 RT: 12.98 min Scan# 1951  
 Delta R.T. 0.00 min  
 Lab File: VX019217.D  
 Acq: 02 Nov 2020 17:26

Tgt Ion: 75 Resp: 2008  
 Ion Ratio Lower Upper  
 75 100  
 155 64.1 65.8 98.8#  
 157 92.6 82.6 123.8

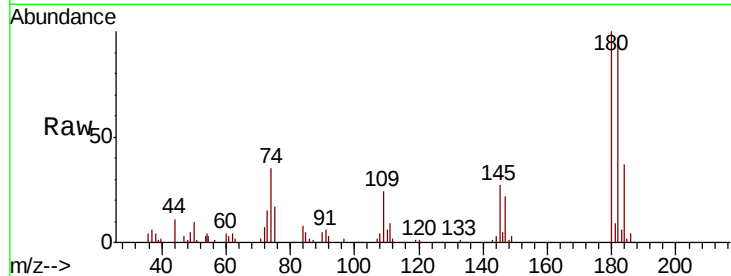




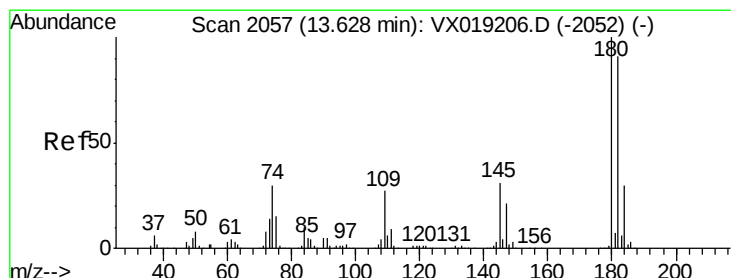
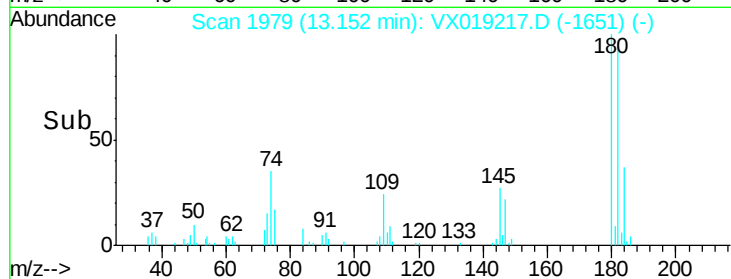
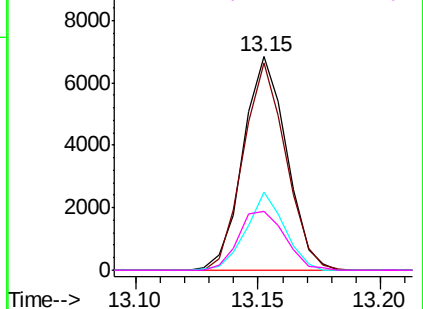
#69  
 1,3,5-Trichlorobenzene  
 Concen: 2.290 ug/L  
 RT: 13.15 min Scan# 1979  
 Delta R.T. 0.00 min  
 Lab File: VX019217.D  
 Acq: 02 Nov 2020 17:26

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MDL-ME-SOIL-02

Tot Ion:180 Resp: 8433  
 Ion Ratio Lower Upper  
 180 100  
 182 95.3 78.8 118.2  
 184 32.4 25.2 37.8  
 145 29.6 25.8 38.6

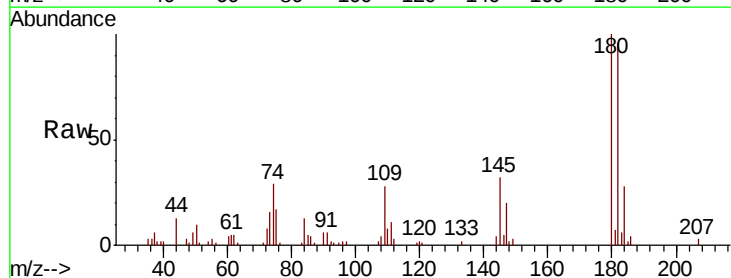


Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 184.00 (183.70 to 184.70): V  
 Ion 145.00 (144.70 to 145.70): V

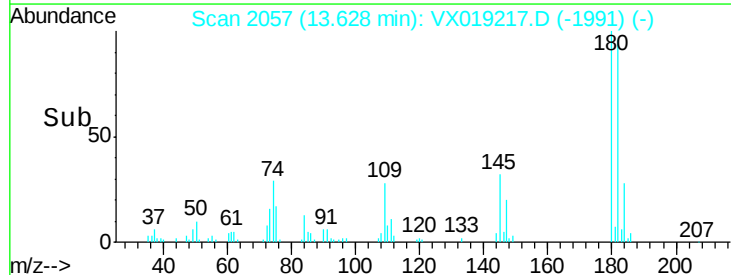
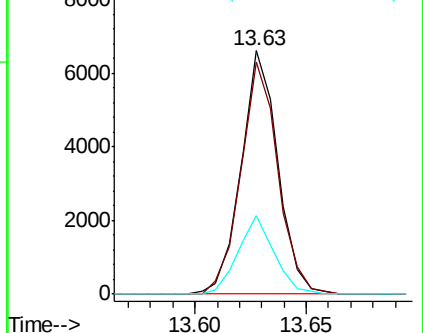


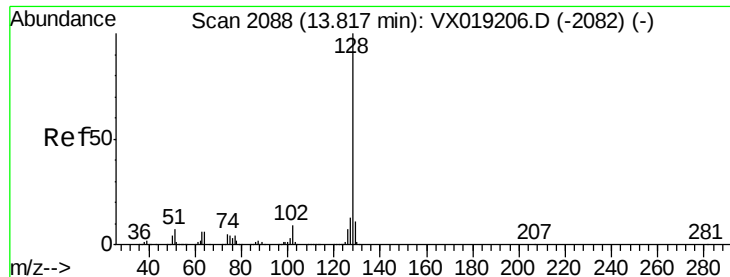
#70  
 1,2,4-trichlorobenzene  
 Concen: 2.238 ug/L  
 RT: 13.63 min Scan# 2057  
 Delta R.T. 0.00 min  
 Lab File: VX019217.D  
 Acq: 02 Nov 2020 17:26

Tgt Ion:180 Resp: 7597  
 Ion Ratio Lower Upper  
 180 100  
 182 96.4 74.6 111.8  
 145 31.8 25.4 38.0



Abundance Ion 180.00 (179.70 to 180.70): V  
 Ion 182.00 (181.70 to 182.70): V  
 Ion 145.00 (144.70 to 145.70): V

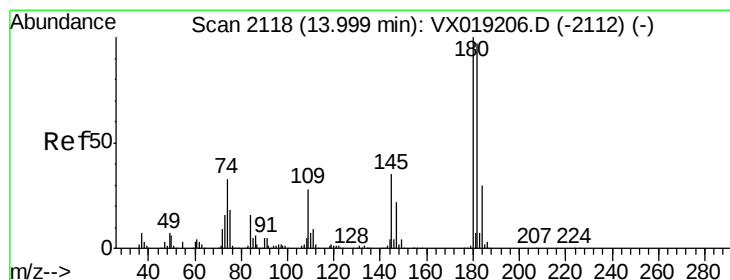
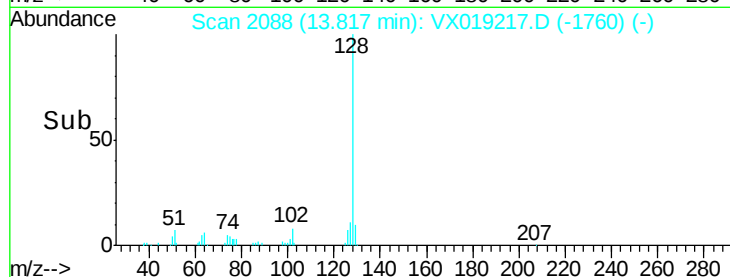
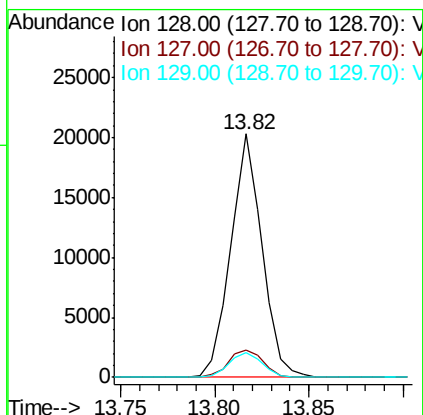
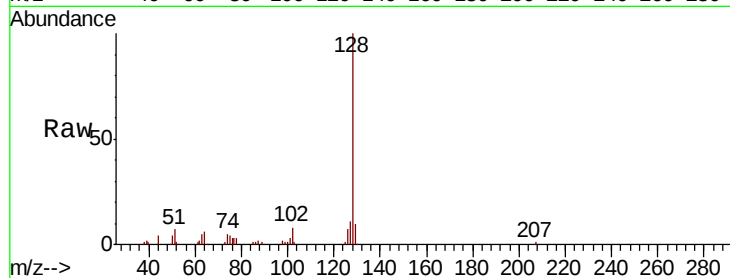




#71  
Naphthalene  
Concen: 2.134 ug/L  
RT: 13.82 min Scan# 2088  
Delta R.T. 0.00 min  
Lab File: VX019217.D  
Acq: 02 Nov 2020 17:26

Instrument :  
MSVOA\_X  
ClientSampleId :  
MDL-ME-SOIL-02

Tot Ion:128 Resp: 23422  
Ion Ratio Lower Upper  
128 100  
127 12.3 10.1 15.1  
129 10.8 8.5 12.7



#72  
1,2,3-Trichlorobenzene  
Concen: 2.163 ug/L  
RT: 14.01 min Scan# 2119  
Delta R.T. 0.01 min  
Lab File: VX019217.D  
Acq: 02 Nov 2020 17:26

Tgt Ion:180 Resp: 7183  
Ion Ratio Lower Upper  
180 100  
182 98.1 75.3 112.9  
145 35.9 27.1 40.7

