

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070120\  
 Data File : VX017133.D  
 Acq On : 02 Jul 2020 05:17  
 Operator : JC/SP  
 Sample : L3159-20 100X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 51 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 11BR-20200629

Quant Time: Jul 02 05:52:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 29 17:10:38 2020  
 Response via : Initial Calibration

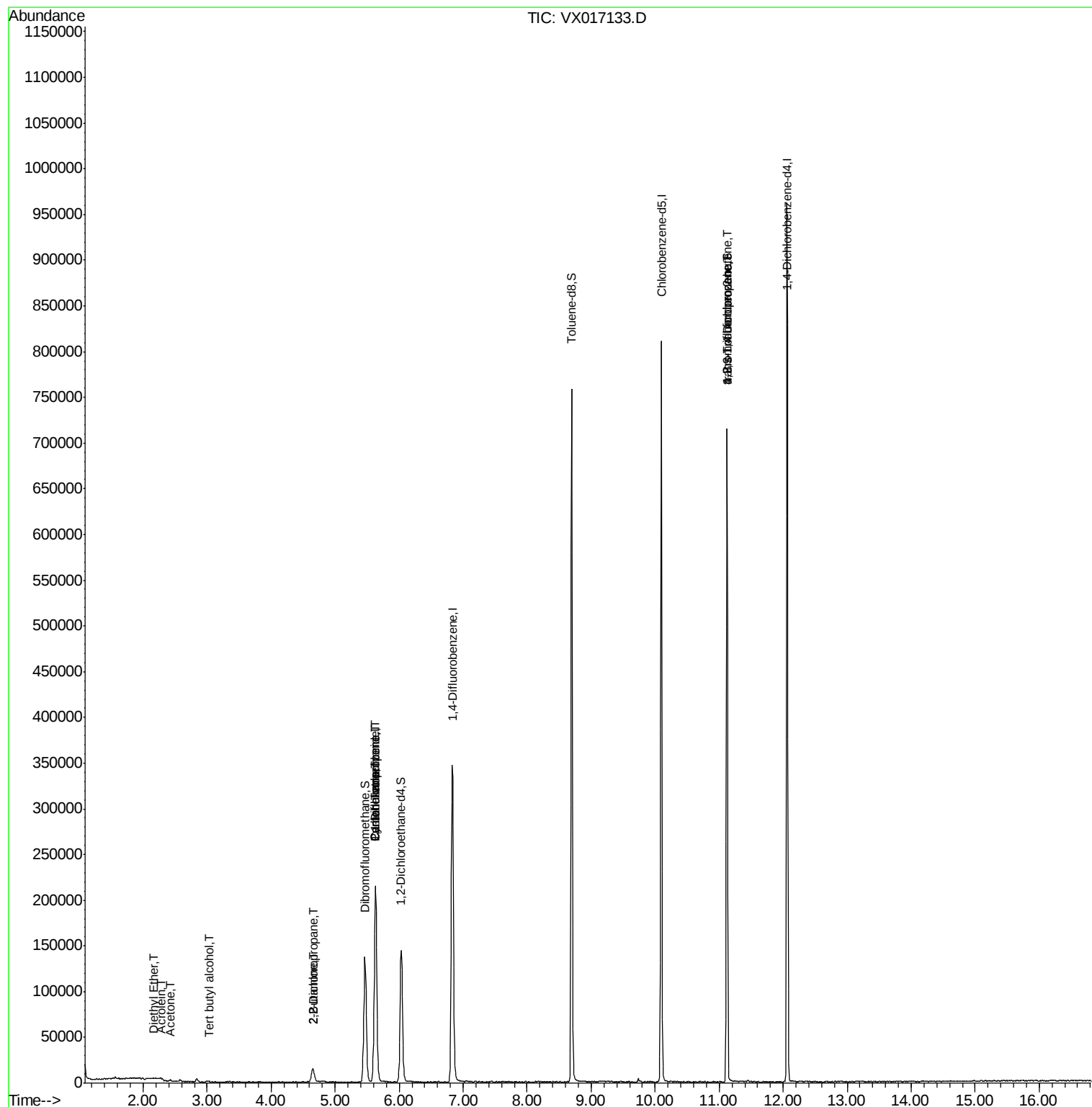
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 5.63  | 168  | 206735   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 6.83  | 114  | 350443   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 10.10 | 117  | 366026   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 12.06 | 152  | 193307   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 6.04  | 65   | 140359   | 55.07     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 110.14% |          |
| 35) Dibromofluoromethane       | 5.46  | 113  | 117945   | 53.21     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 106.42% |          |
| 50) Toluene-d8                 | 8.70  | 98   | 427493   | 52.15     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 104.30% |          |
| 62) 4-Bromofluorobenzene       | 11.12 | 95   | 181049   | 56.50     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 113.00% |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 8) Diethyl Ether               | 2.17  | 74   | 72       | 0.429     | ug/l #  | 48       |
| 11) Tert butyl alcohol         | 3.02  | 59   | 619      | 1.273     | ug/l #  | 80       |
| 13) Acrolein                   | 2.28  | 56   | 200      | 0.688     | ug/l #  | 5        |
| 16) Acetone                    | 2.42  | 43   | 1602     | 1.680     | ug/l    | 95       |
| 20) Methylene Chloride         | 2.84  | 84   | 1488     | Below Cal | #       | 76       |
| 25) 2-Butanone                 | 4.65  | 43   | 1071     | 0.674     | ug/l #  | 49       |
| 26) 2,2-Dichloropropane        | 4.65  | 77   | 1262     | 0.357     | ug/l #  | 53       |
| 31) Cyclohexane                | 5.63  | 56   | 4070     | 1.183     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 14875    | 4.491     | ug/l #  | 52       |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 20441    | 5.603     | ug/l #  | 18       |
| 44) Trichloroethene            | 7.20  | 130  | 165      | Below Cal |         | 89       |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 89864    | 23.641    | ug/l #  | 37       |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 89864    | 61.220    | ug/l #  | 13       |
| 88) 1,4-Dichlorobenzene        | 12.08 | 146  | 334      | Below Cal | #       | 15       |

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

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MSVOA\_X  
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11BR-20200629

Quant Time: Jul 02 05:52:09 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jun 29 17:10:38 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX017133.D

Acq: 02 Jul 2020 05:17

Instrument :

MSVOA\_X

ClientSampleId :

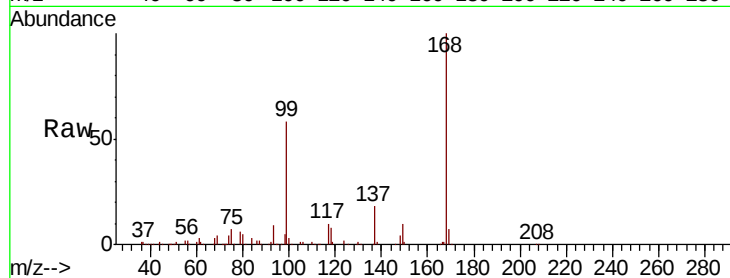
11BR-20200629

Tot Ion:168 Resp: 206735

Ion Ratio Lower Upper

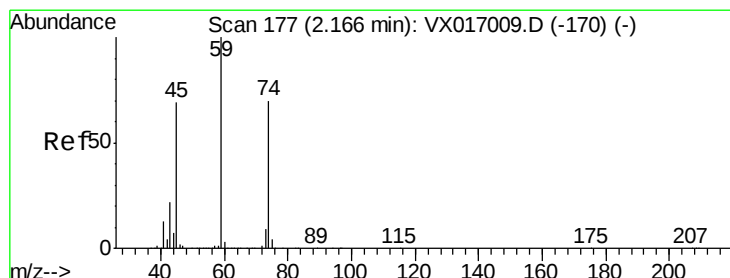
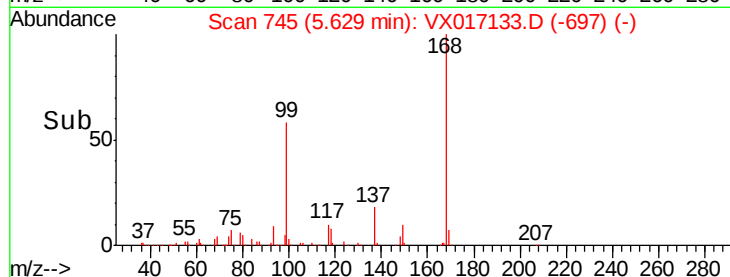
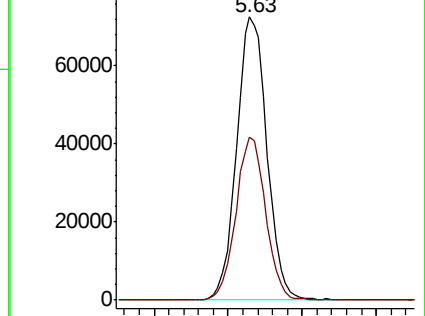
168 100

99 57.5 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#8

Diethyl Ether

Concen: 0.429 ug/l

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017133.D

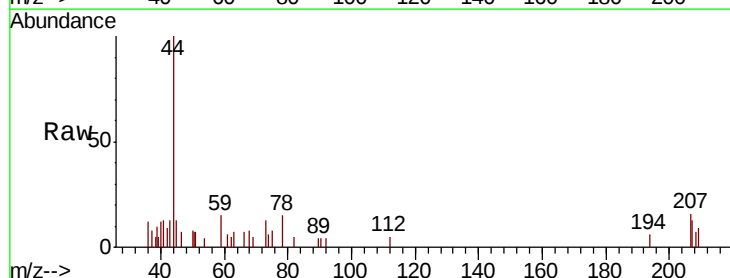
Acq: 02 Jul 2020 05:17

Tgt Ion: 74 Resp: 72

Ion Ratio Lower Upper

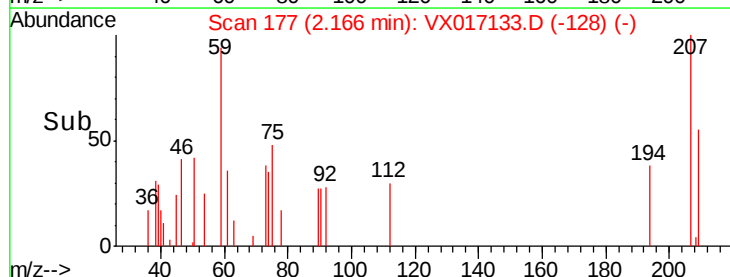
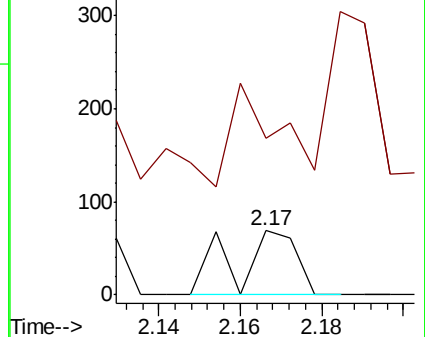
74 100

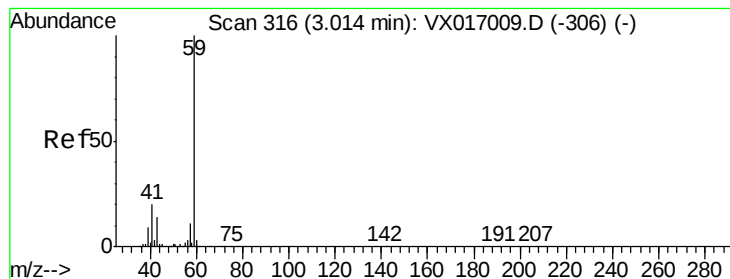
45 151.4 49.8 149.3#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



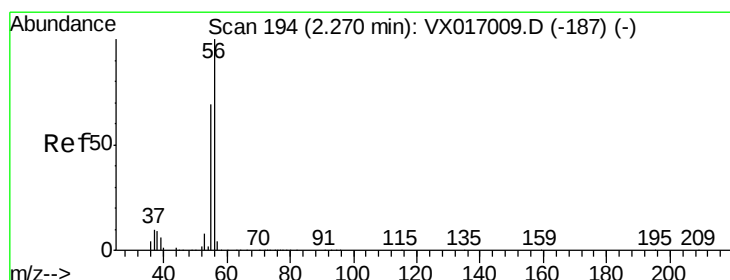
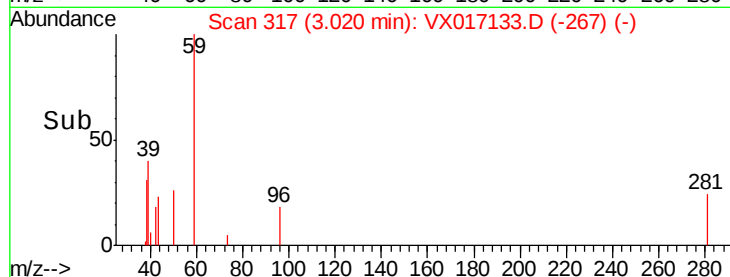
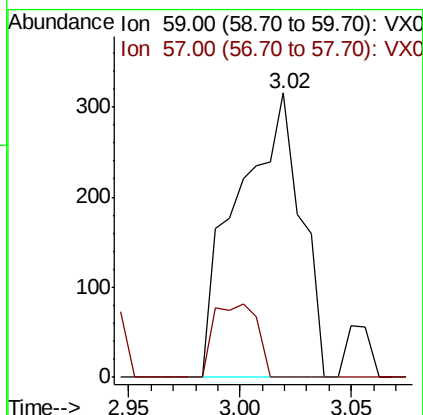
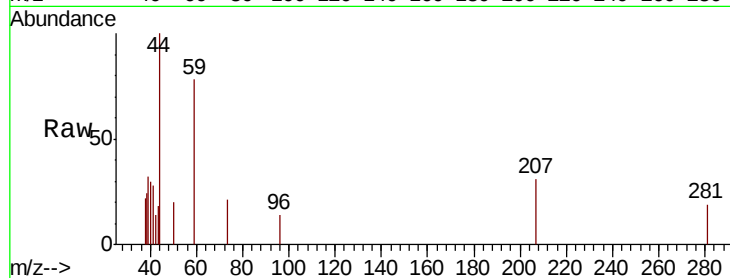


#11

Tert butyl alcohol  
Concen: 1.273 ug/l  
RT: 3.02 min Scan# 317  
Delta R.T. 0.01 min  
Lab File: VX017133.D  
Acq: 02 Jul 2020 05:17

Instrument :  
MSVOA\_X  
ClientSampleId :  
11BR-20200629

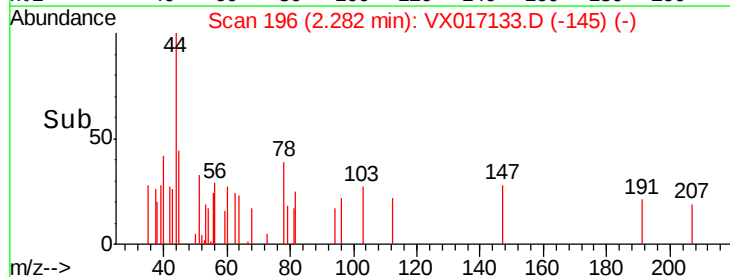
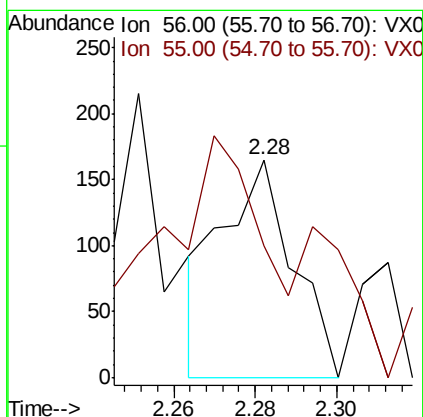
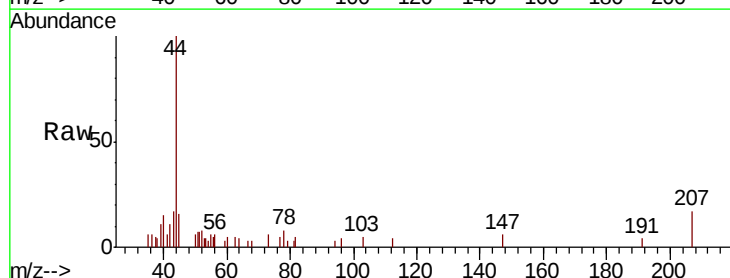
Tot Ion: 59 Resp: 619  
Ion Ratio Lower Upper  
59 100  
57 17.6 8.2 12.2#

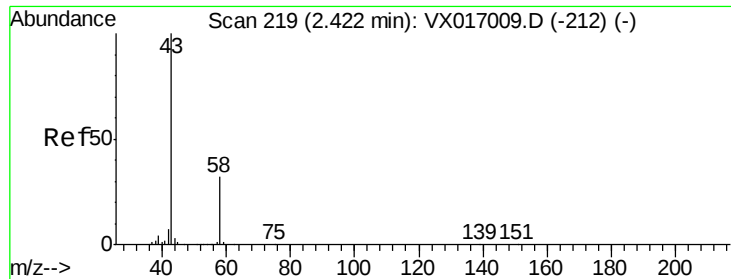


#13

Acrolein  
Concen: 0.688 ug/l  
RT: 2.28 min Scan# 196  
Delta R.T. 0.01 min  
Lab File: VX017133.D  
Acq: 02 Jul 2020 05:17

Tgt Ion: 56 Resp: 200  
Ion Ratio Lower Upper  
56 100  
55 147.5 55.7 83.5#





#16

Acetone

Concen: 1.680 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017133.D

Acq: 02 Jul 2020 05:17

Instrument :

MSVOA\_X

ClientSampleId :

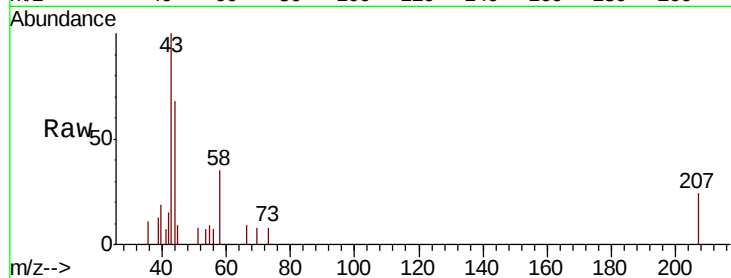
11BR-20200629

Tot Ion: 43 Resp: 1602

Ion Ratio Lower Upper

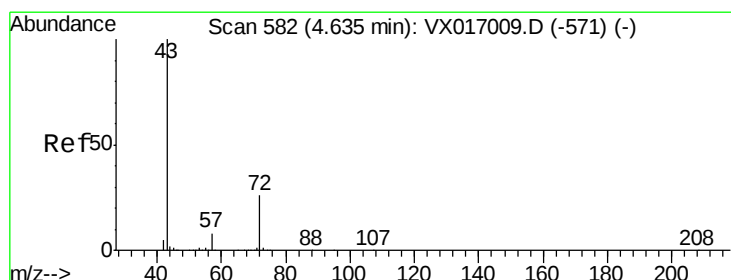
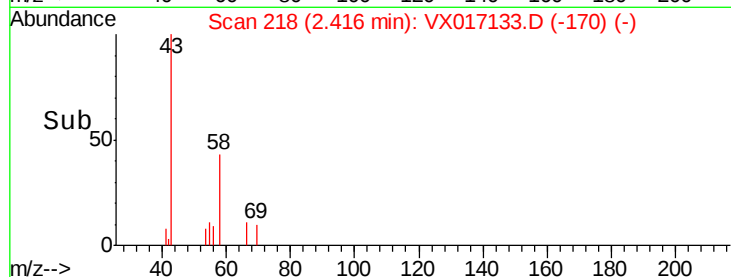
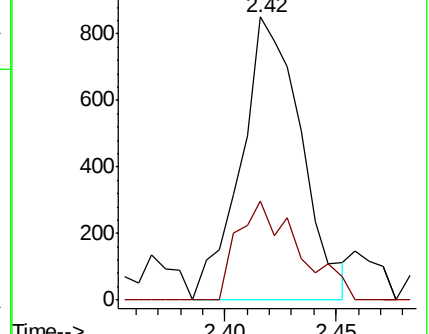
43 100

58 34.8 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#25

2-Butanone

Concen: 0.674 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX017133.D

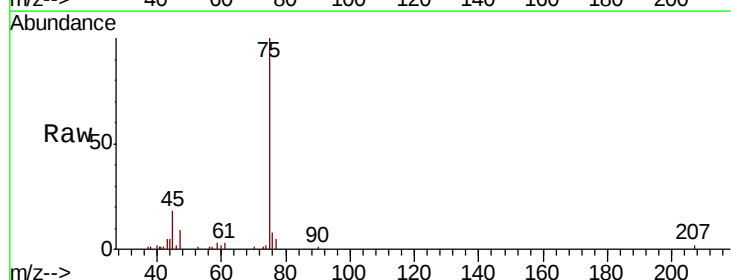
Acq: 02 Jul 2020 05:17

Tgt Ion: 43 Resp: 1071

Ion Ratio Lower Upper

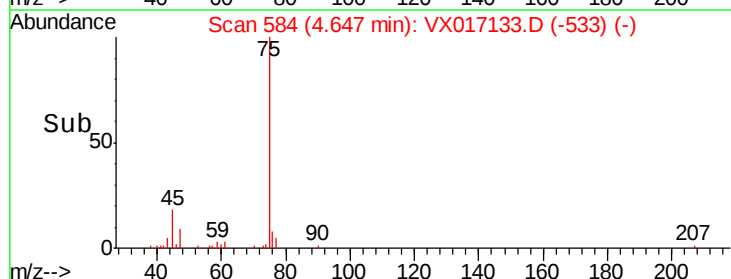
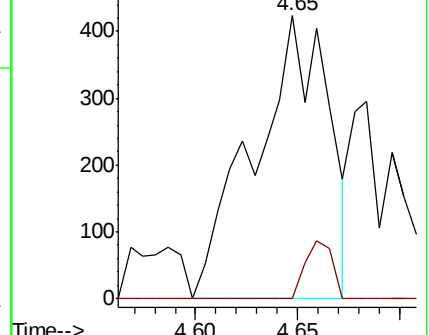
43 100

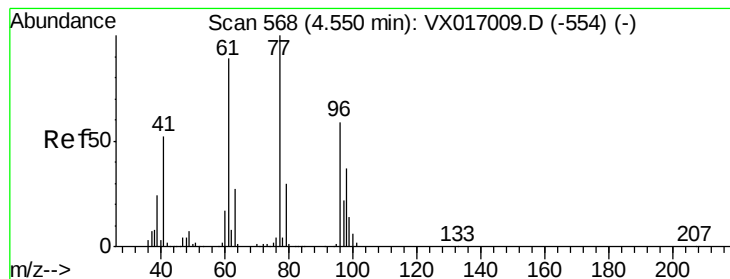
72 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#26

2,2-Dichloropropane

Concen: 0.357 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.10 min

Lab File: VX017133.D

Acq: 02 Jul 2020 05:17

Instrument :

MSVOA\_X

ClientSampleId :

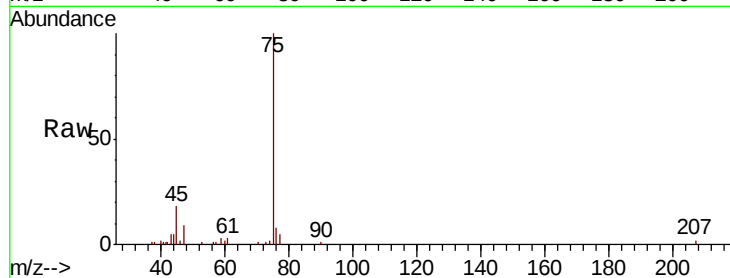
11BR-20200629

Tot Ion: 77 Resp: 1262

Ion Ratio Lower Upper

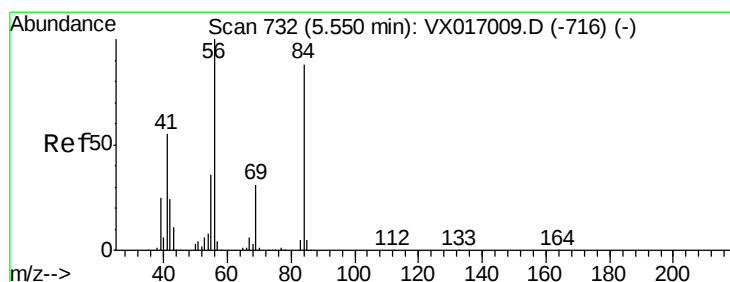
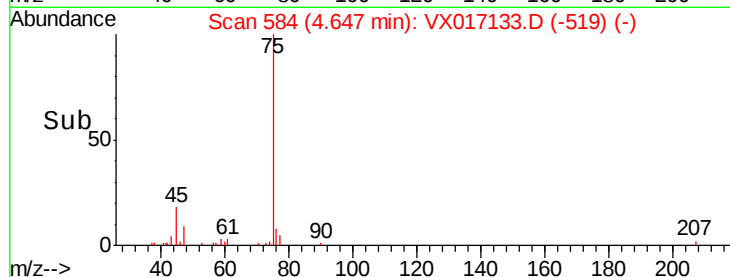
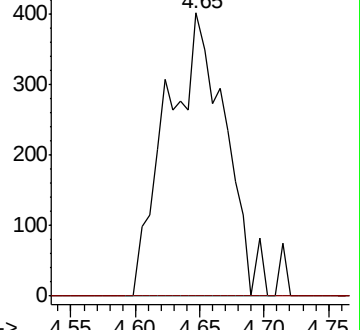
77 100

97 0.0 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0



#31

Cyclohexane

Concen: 1.183 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.08 min

Lab File: VX017133.D

Acq: 02 Jul 2020 05:17

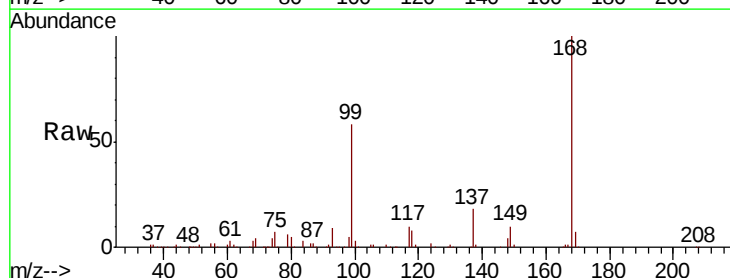
Tgt Ion: 56 Resp: 4070

Ion Ratio Lower Upper

56 100

69 192.4 25.0 37.4#

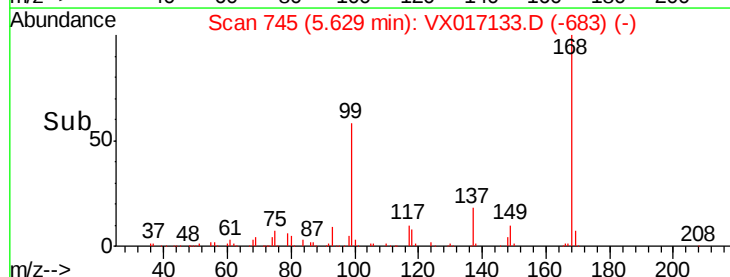
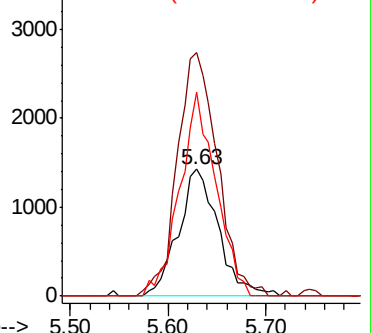
84 161.3 69.1 103.7#

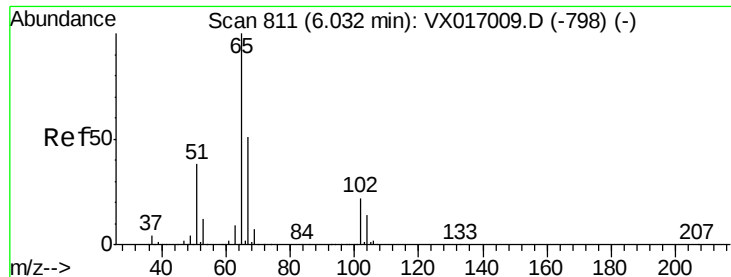


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 55.072 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017133.D

Acq: 02 Jul 2020 05:17

Instrument :

MSVOA\_X

ClientSampleId :

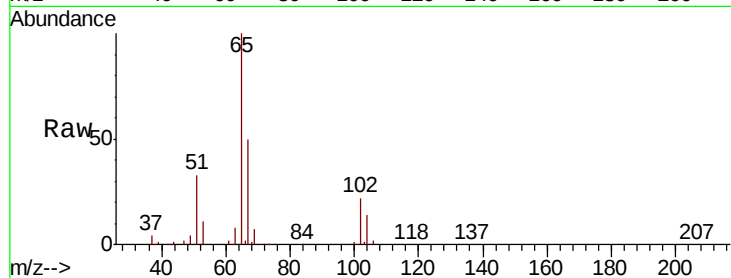
11BR-20200629

Tot Ion: 65 Resp: 140359

Ion Ratio Lower Upper

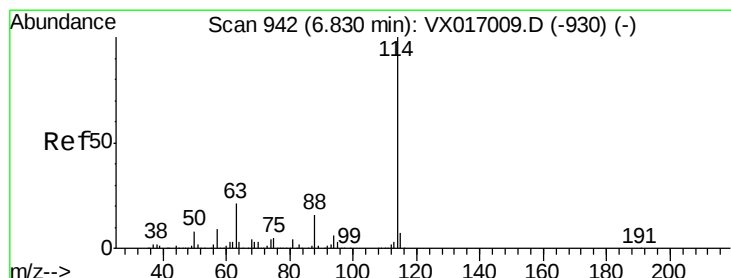
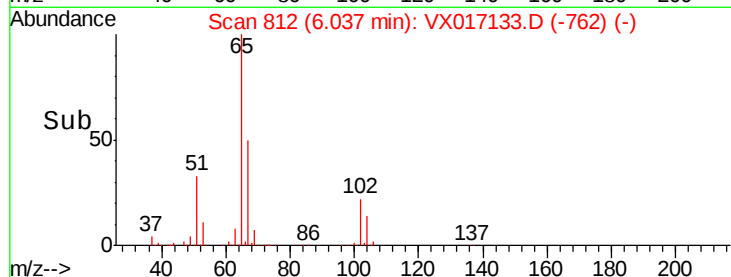
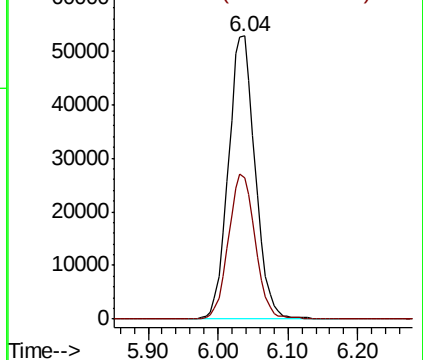
65 100

67 51.1 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017133.D

Acq: 02 Jul 2020 05:17

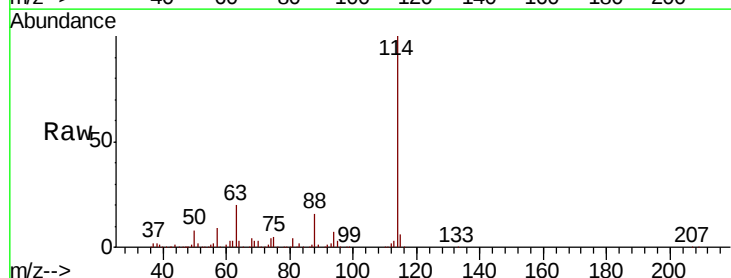
Tgt Ion: 114 Resp: 350443

Ion Ratio Lower Upper

114 100

63 19.6 0.0 41.4

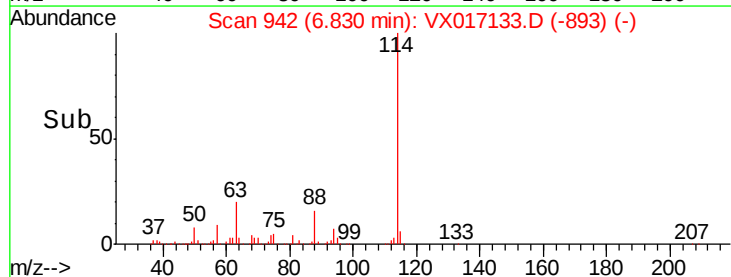
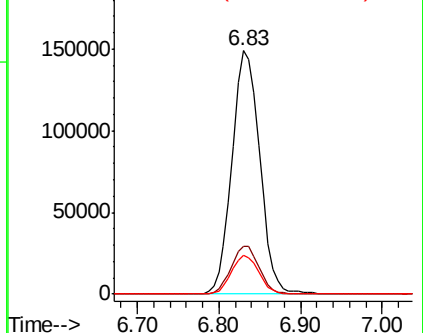
88 16.1 0.0 32.4

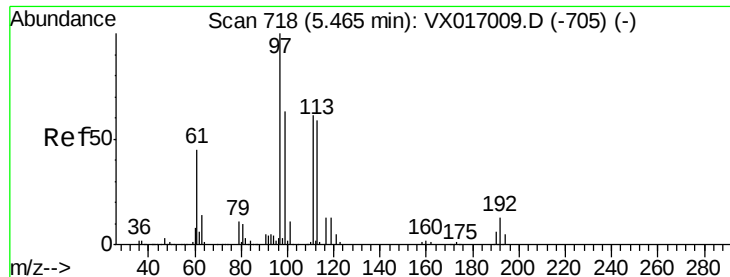


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 53.205 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.00 min

Lab File: VX017133.D

Acq: 02 Jul 2020 05:17

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MSVOA\_X

ClientSampleId :

11BR-20200629

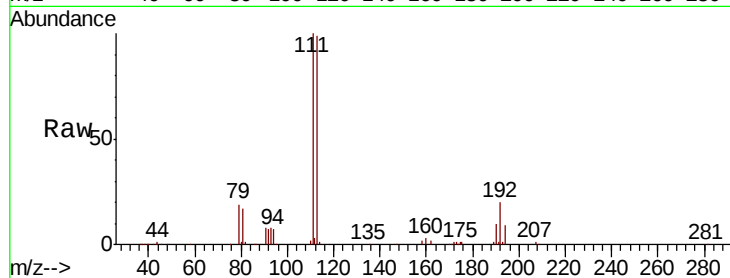
Tot Ion:113 Resp: 117945

Ion Ratio Lower Upper

113 100

111 102.4 81.9 122.9

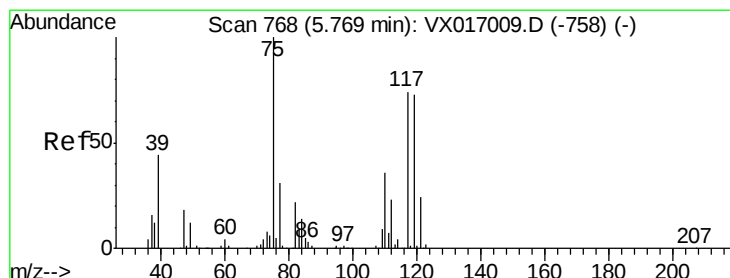
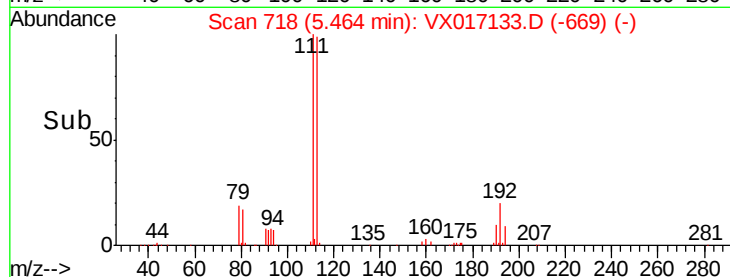
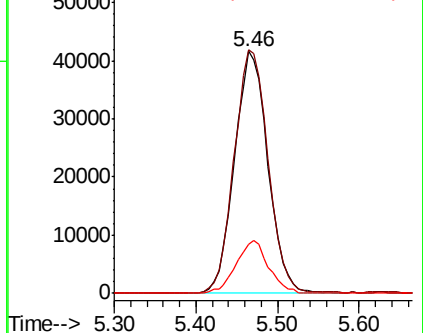
192 21.3 16.7 25.1



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: 4.491 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX017133.D

Acq: 02 Jul 2020 05:17

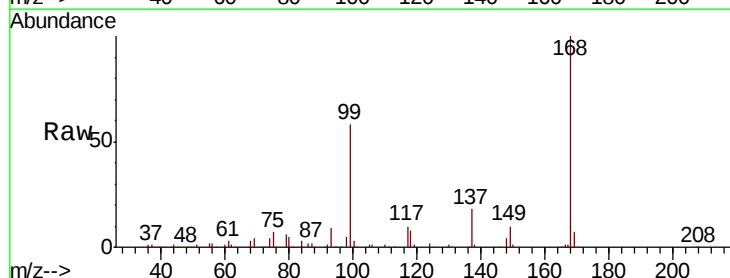
Tgt Ion: 75 Resp: 14875

Ion Ratio Lower Upper

75 100

110 11.5 18.1 54.1#

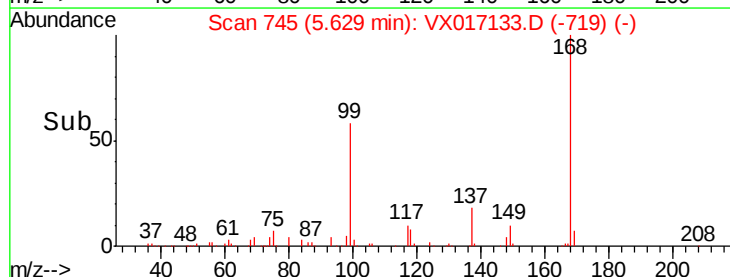
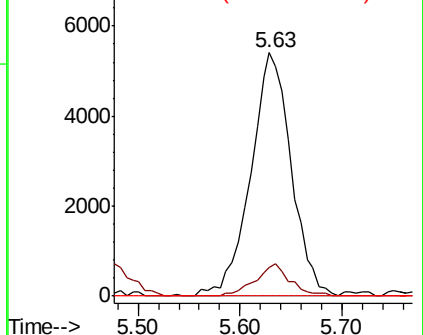
77 0.0 24.6 37.0#

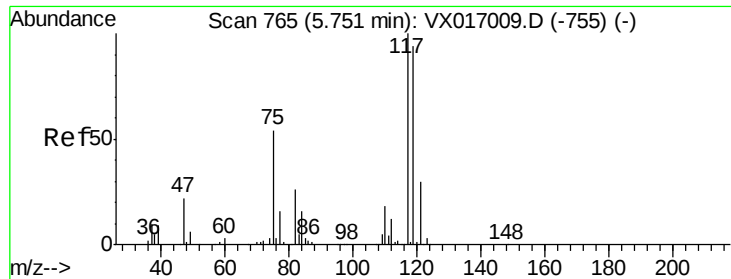


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

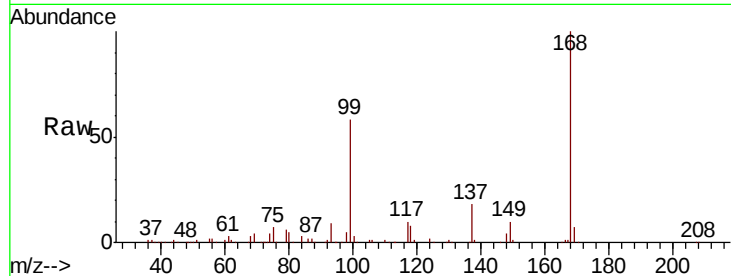




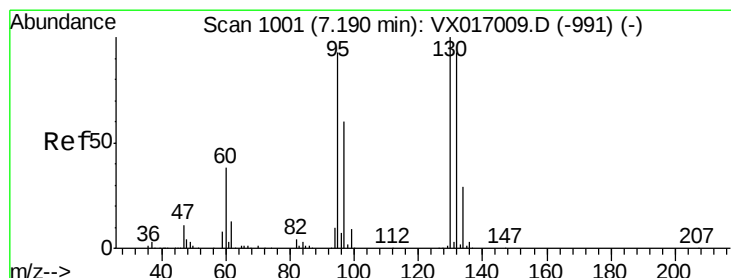
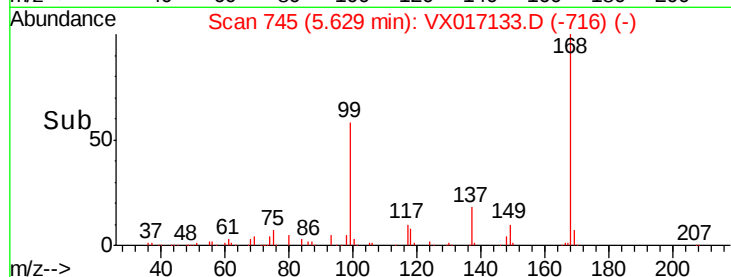
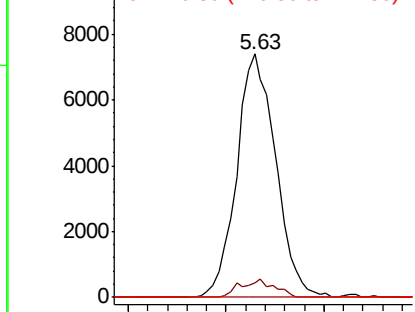
#38  
Carbon Tetrachloride  
Concen: 5.603 ug/l  
RT: 5.63 min Scan# 745  
Delta R.T. -0.12 min  
Lab File: VX017133.D  
Acq: 02 Jul 2020 05:17

Instrument :  
MSVOA\_X  
ClientSampleId :  
11BR-20200629

Tot Ion:117 Resp: 20441  
Ion Ratio Lower Upper  
117 100  
119 6.1 75.4 113.0#  
121 0.0 23.8 35.6#

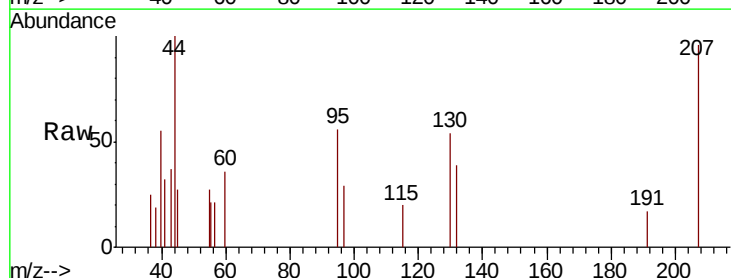


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

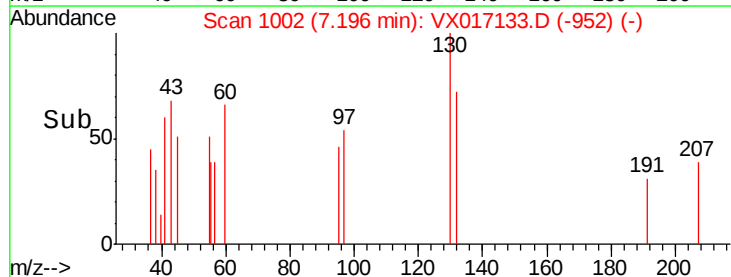
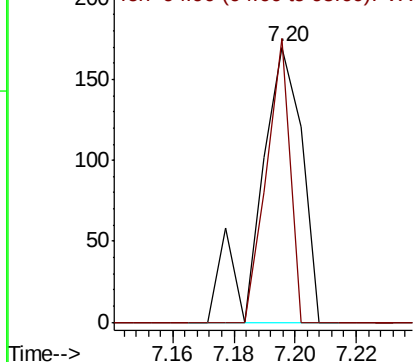


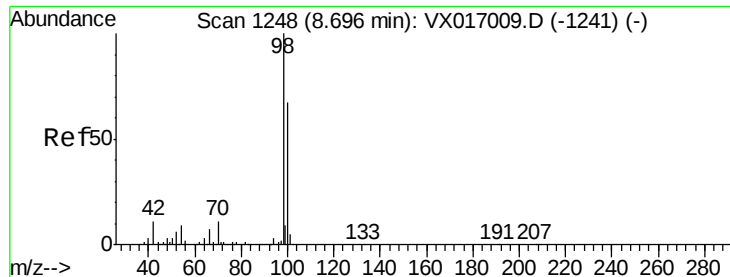
#44  
Trichloroethene  
Concen: Below Cal  
RT: 7.20 min Scan# 1002  
Delta R.T. 0.01 min  
Lab File: VX017133.D  
Acq: 02 Jul 2020 05:17

Tgt Ion:130 Resp: 165  
Ion Ratio Lower Upper  
130 100  
95 102.9 0.0 185.0



Abundance Ion 129.80 (129.50 to 130.50): V  
Ion 94.90 (94.60 to 95.60): V

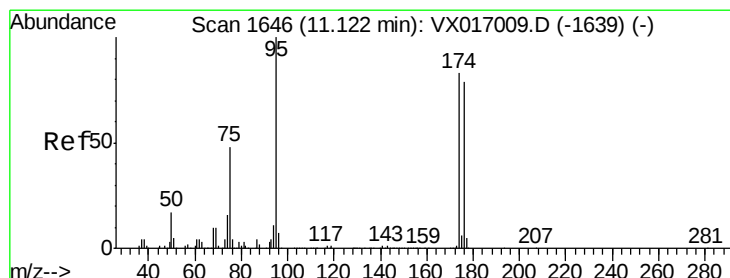
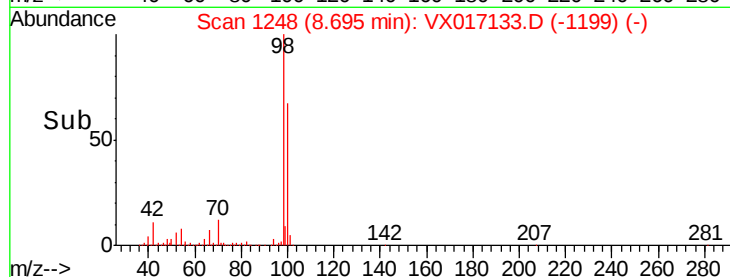
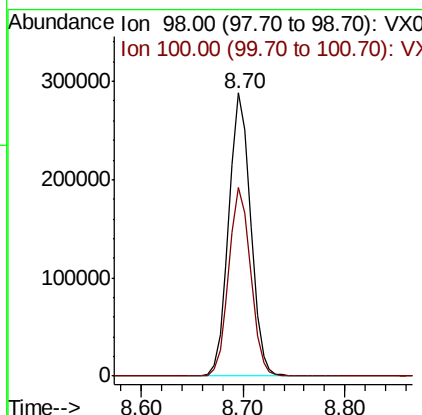
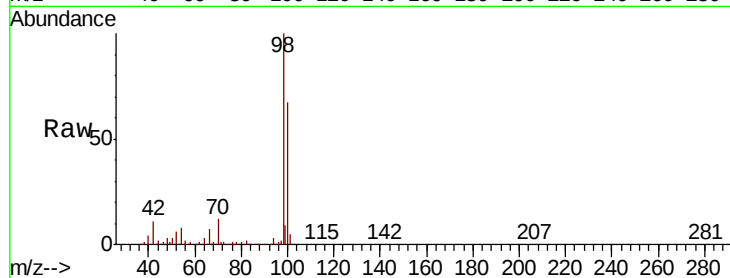




#50  
Toluene-d8  
Concen: 52.151 ug/l  
RT: 8.70 min Scan# 1248  
Delta R.T. -0.00 min  
Lab File: VX017133.D  
Acq: 02 Jul 2020 05:17

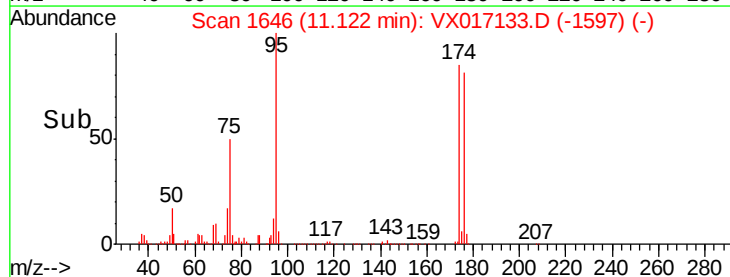
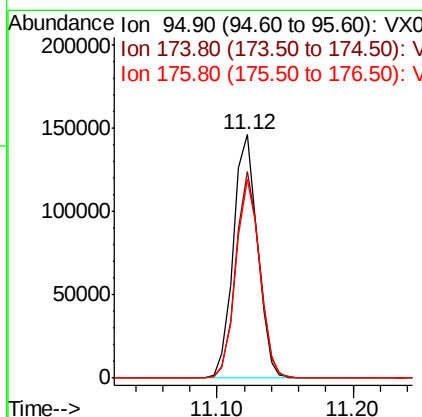
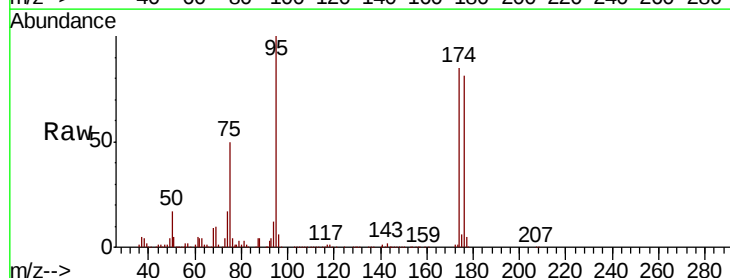
Instrument :  
MSVOA\_X  
ClientSampleId :  
11BR-20200629

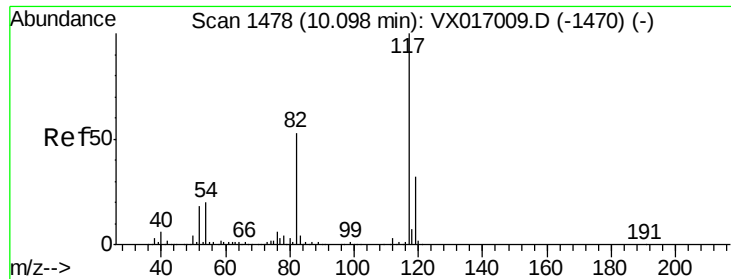
Tot Ion: 98 Resp: 427493  
Ion Ratio Lower Upper  
98 100  
100 66.7 53.8 80.6



#62  
4-Bromofluorobenzene  
Concen: 56.500 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. -0.00 min  
Lab File: VX017133.D  
Acq: 02 Jul 2020 05:17

Tgt Ion: 95 Resp: 181049  
Ion Ratio Lower Upper  
95 100  
174 83.3 0.0 164.0  
176 80.6 0.0 157.6

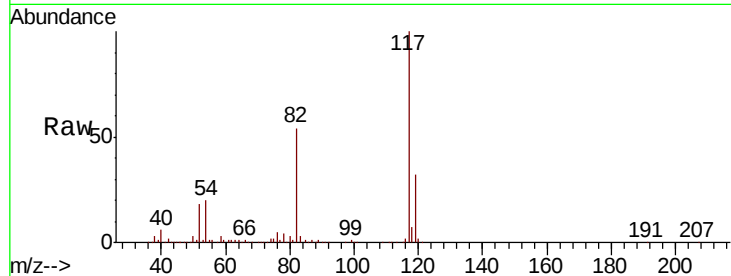




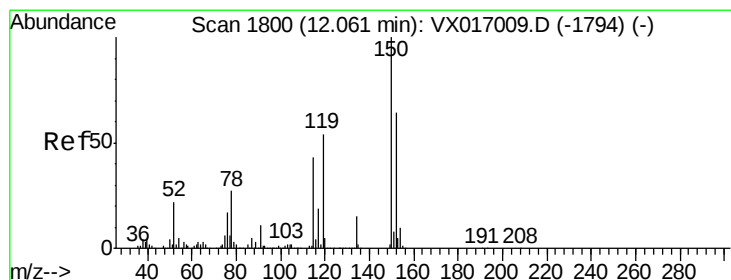
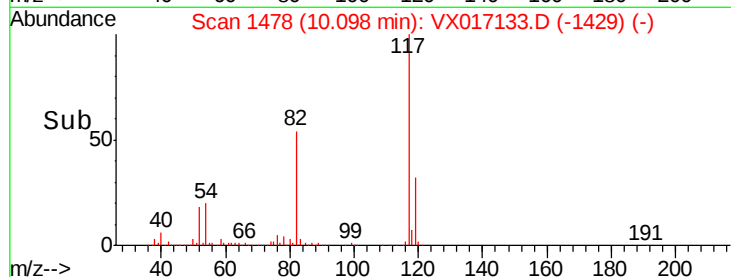
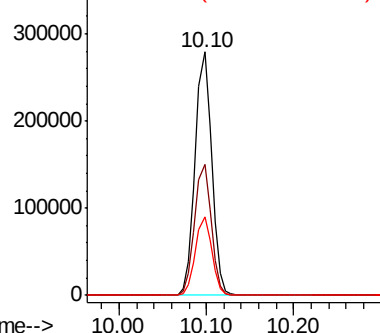
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX017133.D  
Acq: 02 Jul 2020 05:17

Instrument :  
MSVOA\_X  
ClientSampleId :  
11BR-20200629

Tot Ion:117 Resp: 366026  
Ion Ratio Lower Upper  
117 100  
82 53.6 42.6 63.8  
119 32.1 25.4 38.2

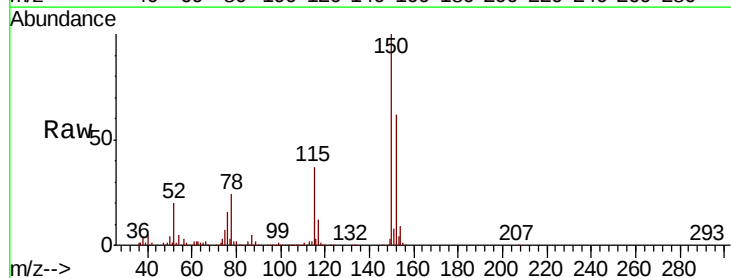


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

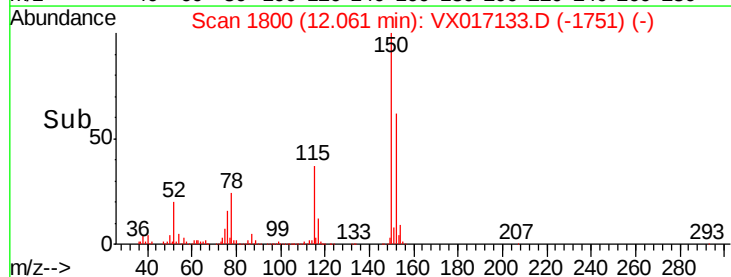
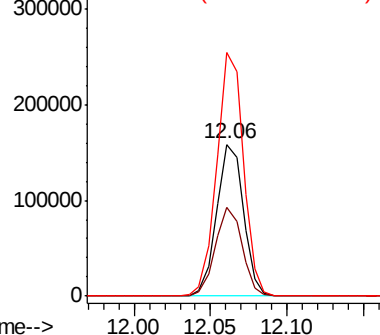


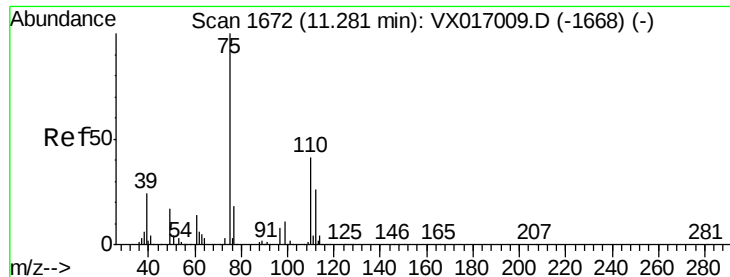
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX017133.D  
Acq: 02 Jul 2020 05:17

Tgt Ion:152 Resp: 193307  
Ion Ratio Lower Upper  
152 100  
115 58.3 40.9 122.7  
150 159.8 0.0 351.6



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.641 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017133.D

Acq: 02 Jul 2020 05:17

Instrument :

MSVOA\_X

ClientSampleId :

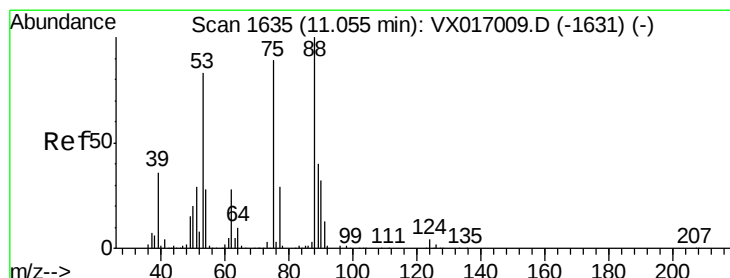
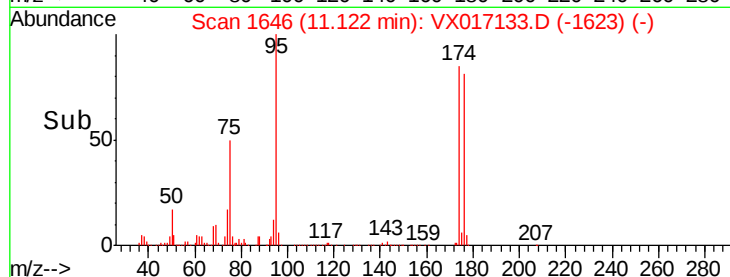
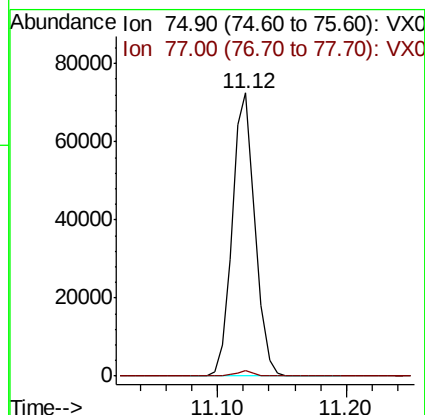
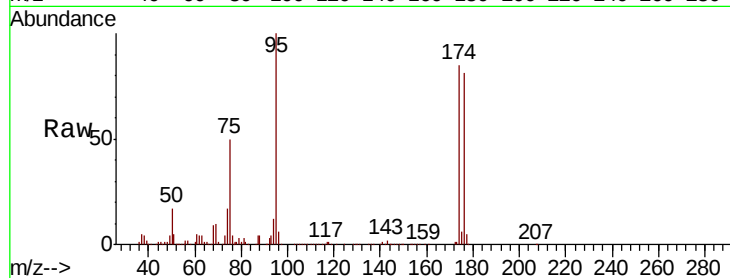
11BR-20200629

Tot Ion: 75 Resp: 89864

Ion Ratio Lower Upper

75 100

77 1.5 20.2 60.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.220 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017133.D

Acq: 02 Jul 2020 05:17

Tgt Ion: 75 Resp: 89864

Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

89 0.0 37.0 55.4#

