

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050919\  
 Data File : VN055529.D  
 Acq On : 10 May 2019 5:24  
 Operator : JC/SP  
 Sample : K2758-29  
 Misc : 5.00mL/MSVOA N/WATER  
 ALS Vial : 48 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CKMW-06

Quant Time: May 10 06:02:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_N\METHODS\82N050819W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 04:17:44 2019  
 Response via : Initial Calibration

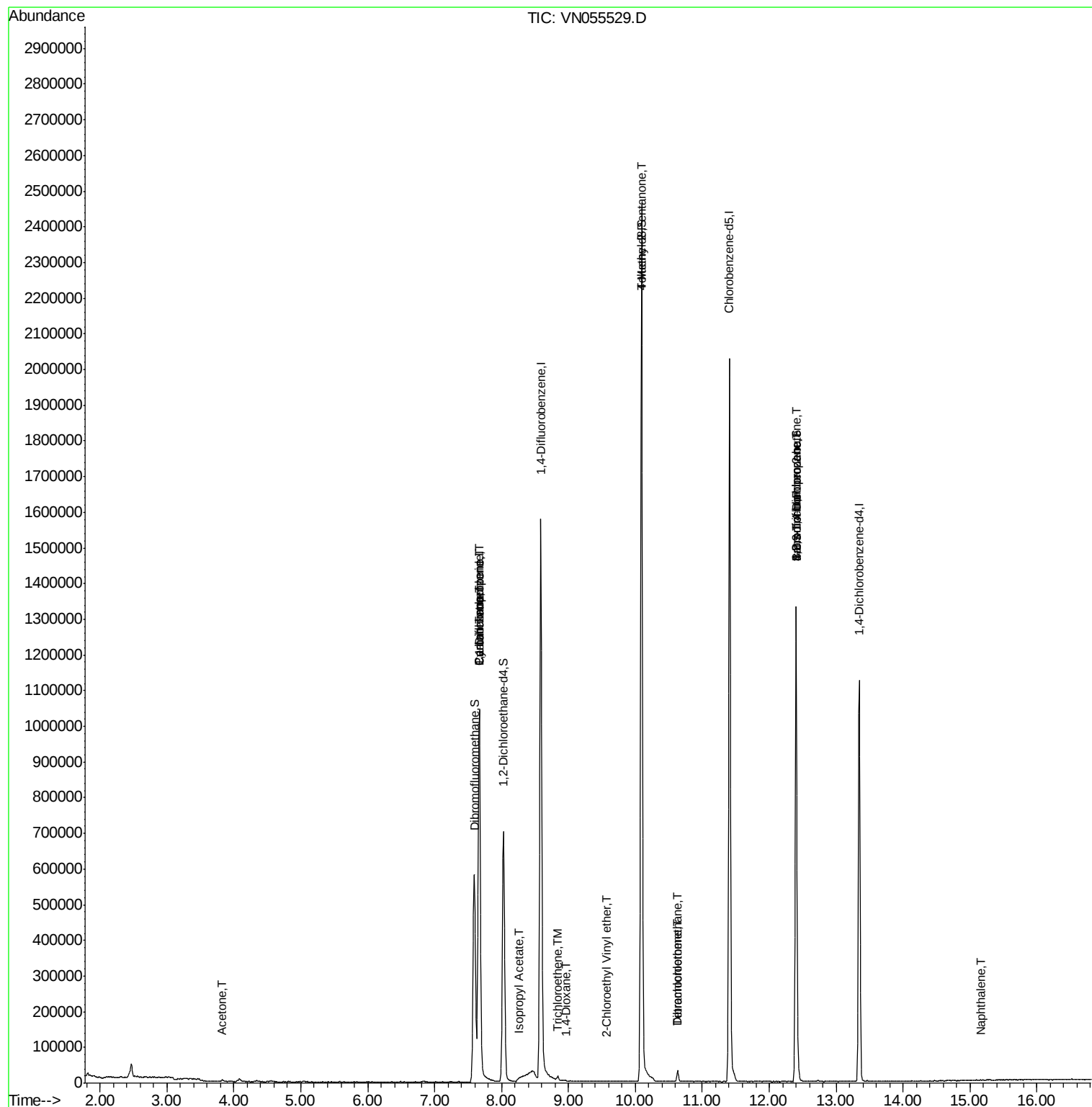
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene          | 7.67   | 168  | 871755   | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.59   | 114  | 1466197  | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5           | 11.41  | 117  | 1212033  | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.35  | 152  | 316756   | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds    |        |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4      | 8.03   | 65   | 595288   | 45.35     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 90.70% |          |
| 35) Dibromofluoromethane       | 7.59   | 113  | 457768   | 48.40     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 96.80% |          |
| 50) Toluene-d8                 | 10.09  | 98   | 1791643  | 48.61     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 97.22% |          |
| 62) 4-Bromofluorobenzene       | 12.40  | 95   | 499546   | 40.20     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 80.40% |          |
| Target Compounds               |        |      |          |           |        |          |
|                                |        |      |          |           | Qvalue |          |
| 16) Acetone                    | 3.82   | 43   | 7491     | 1.233     | ug/l   | 99       |
| 18) Methyl Acetate             | 4.33   | 43   | 7112     | Below Cal | #      | 66       |
| 31) Cyclohexane                | 7.67   | 56   | 18420    | 0.870     | ug/l # | 1        |
| 36) 1,1-Dichloropropene        | 7.66   | 75   | 70068    | 4.851     | ug/l # | 46       |
| 38) Carbon Tetrachloride       | 7.67   | 117  | 83018    | 6.825     | ug/l # | 15       |
| 43) Isopropyl Acetate          | 8.25   | 43   | 4883     | 0.204     | ug/l # | 63       |
| 44) Trichloroethene            | 8.83   | 130  | 3393     | 0.318     | ug/l   | 89       |
| 49) 1,4-Dioxane                | 8.96   | 88   | 72       | 0.320     | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone       | 10.09  | 43   | 7809     | 0.496     | ug/l # | 1        |
| 58) 2-Chloroethyl Vinyl ether  | 9.57   | 63   | 61       | 12.523    | ug/l # | 52       |
| 60) Dibromochloromethane       | 10.63  | 129  | 6315     | 0.669     | ug/l # | 11       |
| 64) Tetrachloroethene          | 10.63  | 164  | 6890     | 0.694     | ug/l # | 93       |
| 71) Bromoform                  | 12.40  | 173  | 2783     | 0.480     | ug/l # | 1        |
| 73) Isopropylbenzene           | 12.25  | 105  | 64       | Below Cal | #      | 49       |
| 75) 1,1,2,2-Tetrachloroethane  | 12.40  | 83   | 232      | Below Cal | #      | 1        |
| 76) 1,2,3-Trichloropropane     | 12.40  | 75   | 247971   | 28.756    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.40  | 75   | 247971   | 106.107   | ug/l # | 7        |
| 95) Naphthalene                | 15.15  | 128  | 32       | 2.939     | ug/l # | 70       |

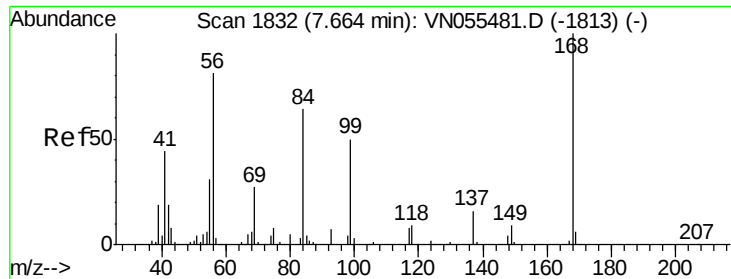
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN050919\  
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Instrument :  
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CKMW-06

Quant Time: May 10 06:02:11 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_N\METHODS\82N050819W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 09 04:17:44 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055529.D

Acq: 10 May 2019 5:24

Instrument :

MSVOA\_N

ClientSampleId :

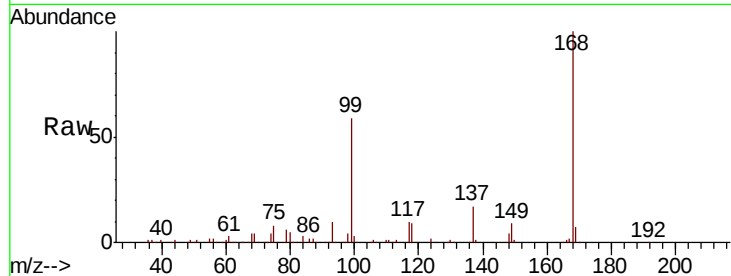
CKMW-06

Tot Ion:168 Resp: 871755

Ion Ratio Lower Upper

168 100

99 59.0 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

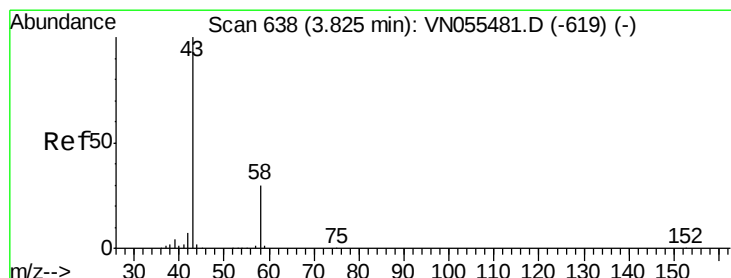
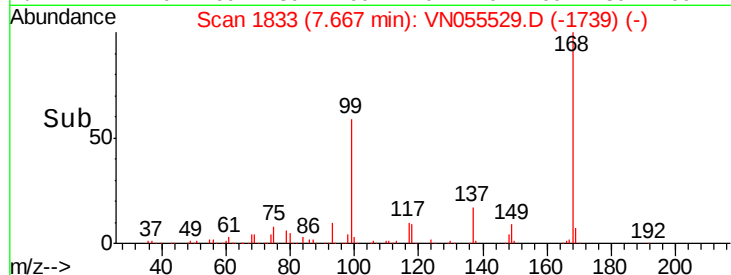
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 1.233 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN055529.D

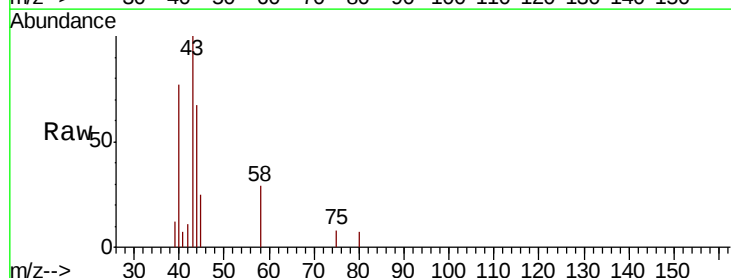
Acq: 10 May 2019 5:24

Tgt Ion: 43 Resp: 7491

Ion Ratio Lower Upper

43 100

58 31.0 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

3000

2500

2000

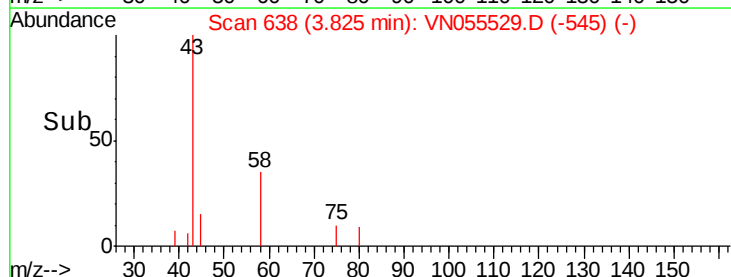
1500

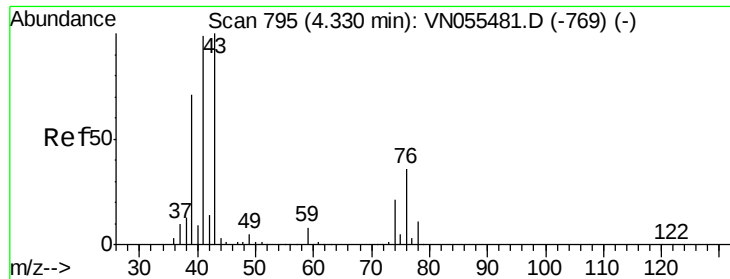
1000

500

0

Time-->

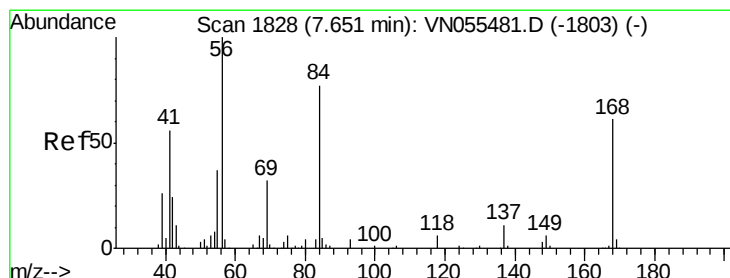
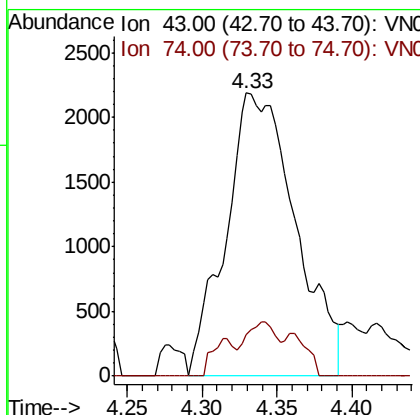
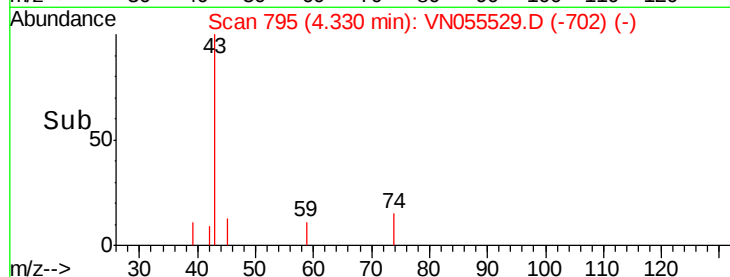
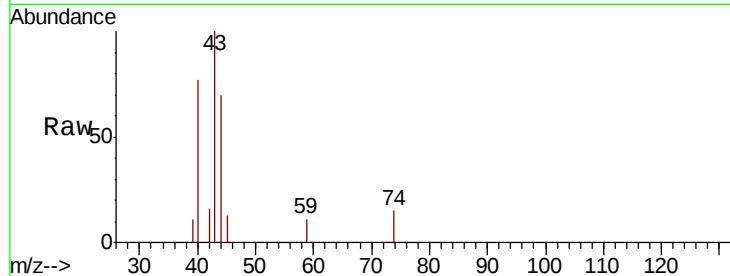




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 4.33 min Scan# 795  
Delta R.T. 0.00 min  
Lab File: VN055529.D  
Acq: 10 May 2019 5:24

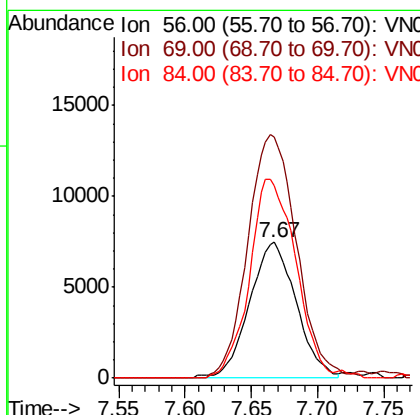
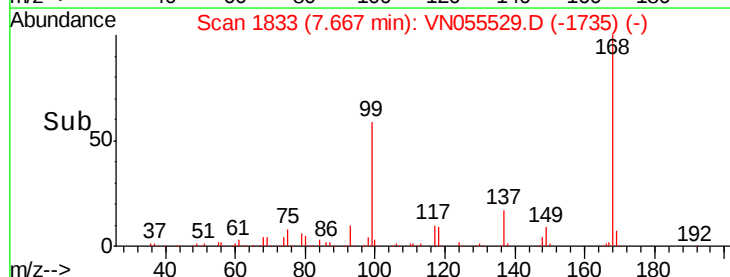
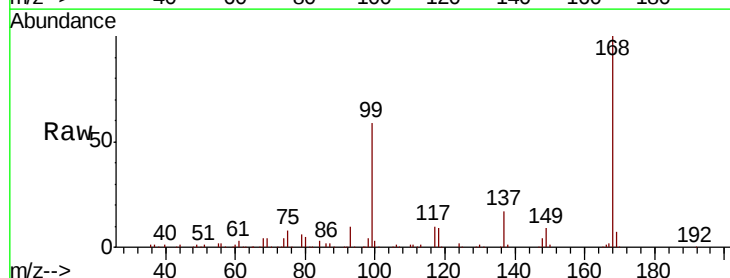
Instrument :  
MSVOA\_N  
ClientSampled :  
CKMW-06

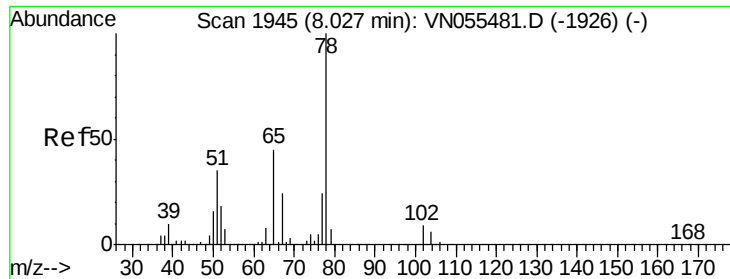
Tot Ion: 43 Resp: 7112  
Ion Ratio Lower Upper  
43 100  
74 4.6 16.3 24.5#



#31  
Cyclohexane  
Concen: 0.870 ug/l  
RT: 7.67 min Scan# 1833  
Delta R.T. 0.02 min  
Lab File: VN055529.D  
Acq: 10 May 2019 5:24

Tgt Ion: 56 Resp: 18420  
Ion Ratio Lower Upper  
56 100  
69 177.4 26.0 39.0#  
84 141.5 61.9 92.9#

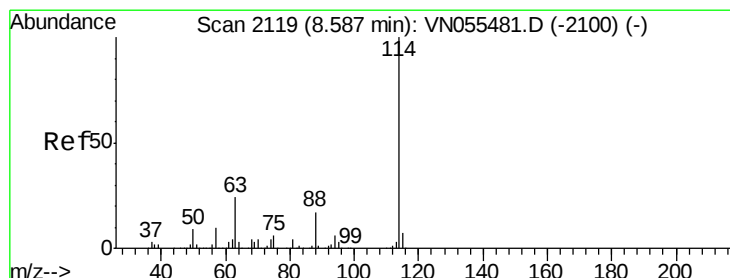
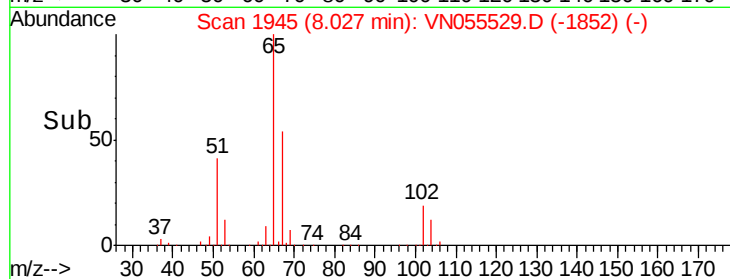
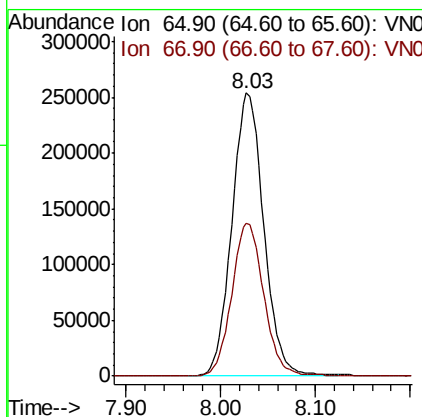
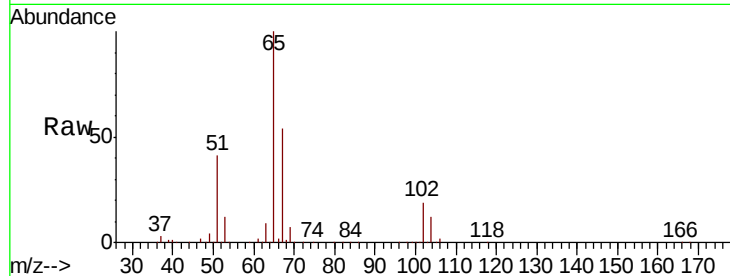




#33  
 1,2-Dichloroethane-d4  
 Concen: 45.353 ug/l  
 RT: 8.03 min Scan# 1945  
 Delta R.T. 0.00 min  
 Lab File: VN055529.D  
 Acq: 10 May 2019 5:24

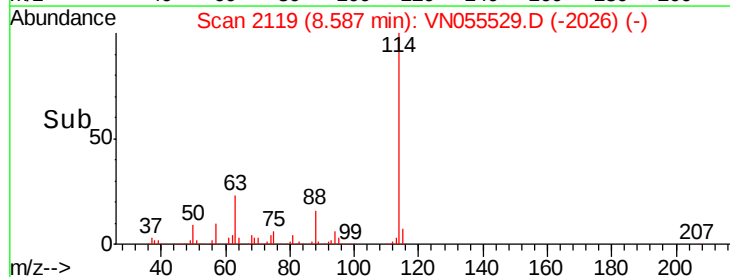
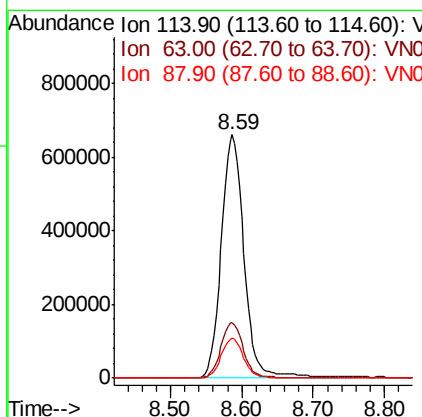
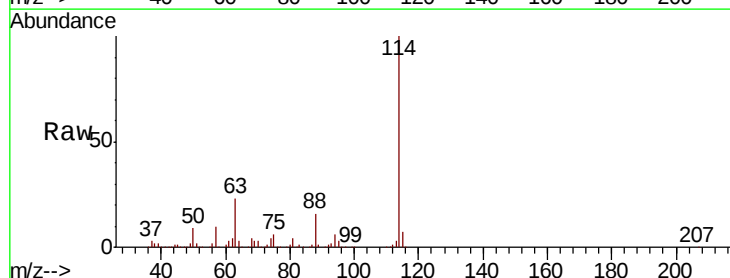
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CKMW-06

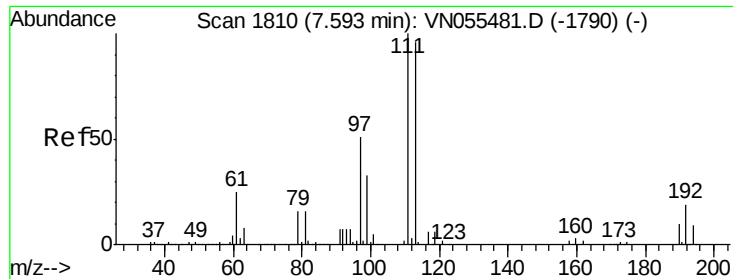
Tot Ion: 65 Resp: 595288  
 Ion Ratio Lower Upper  
 65 100  
 67 54.2 0.0 109.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.59 min Scan# 2119  
 Delta R.T. 0.00 min  
 Lab File: VN055529.D  
 Acq: 10 May 2019 5:24

Tgt Ion: 114 Resp: 1466197  
 Ion Ratio Lower Upper  
 114 100  
 63 23.0 0.0 47.4  
 88 16.4 0.0 34.0

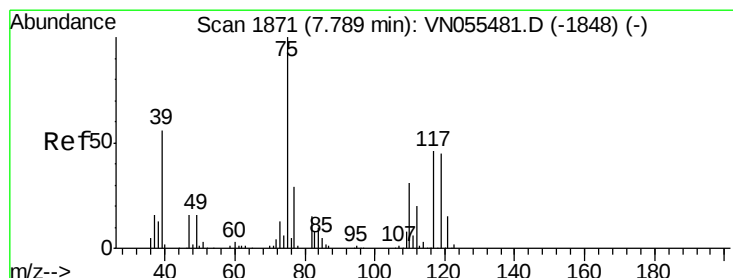
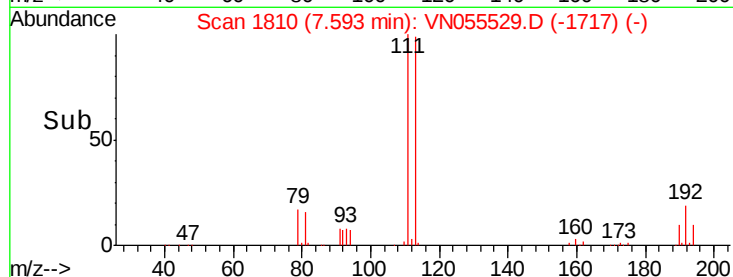
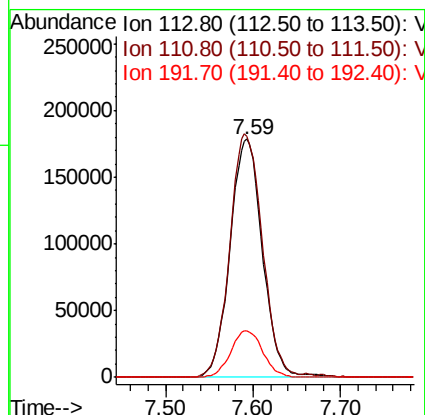
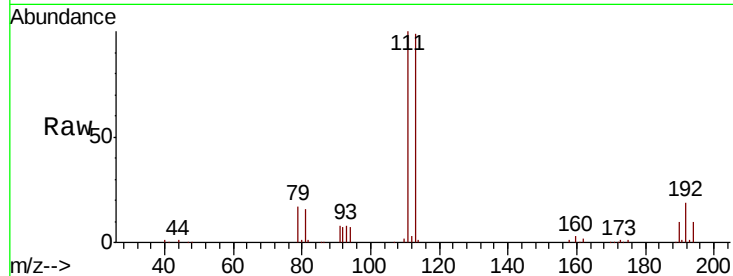




#35  
 Dibromofluoromethane  
 Concen: 48.399 ug/l  
 RT: 7.59 min Scan# 1810  
 Delta R.T. 0.00 min  
 Lab File: VN055529.D  
 Acq: 10 May 2019 5:24

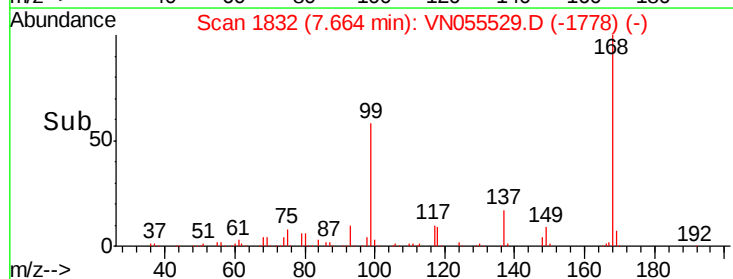
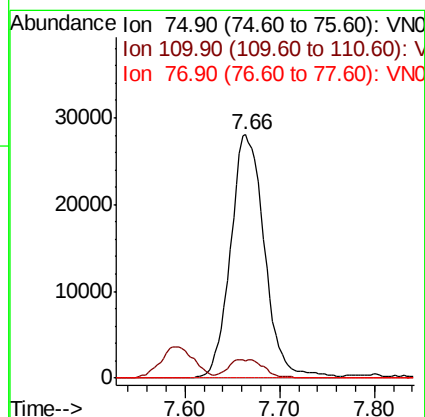
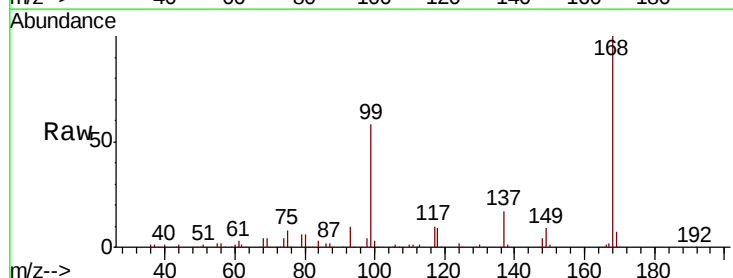
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 CKMW-06

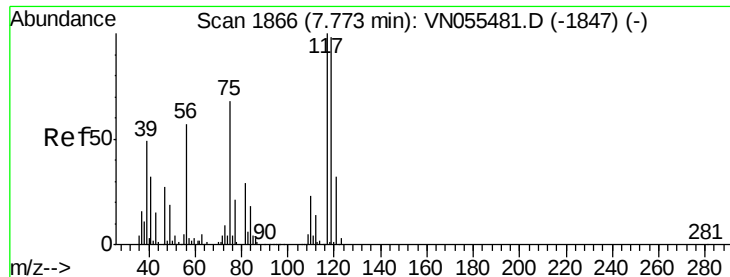
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.7 | 82.9  | 124.3 |
| 192     | 19.6  | 15.6  | 23.4  |



#36  
 1,1-Dichloropropene  
 Concen: 4.851 ug/l  
 RT: 7.66 min Scan# 1832  
 Delta R.T. -0.13 min  
 Lab File: VN055529.D  
 Acq: 10 May 2019 5:24

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 3.1   | 16.1  | 48.3# |
| 77      | 0.0   | 24.6  | 37.0# |





#38

Carbon Tetrachloride

Concen: 6.825 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN055529.D

Acq: 10 May 2019 5:24

Instrument :

MSVOA\_N

ClientSampleId :

CKMW-06

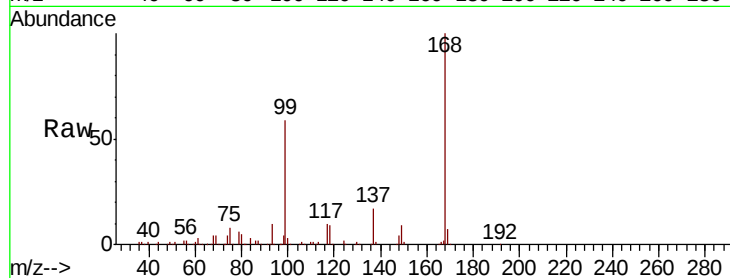
Tot Ion:117 Resp: 83018

Ion Ratio Lower Upper

117 100

119 4.4 77.8 116.6#

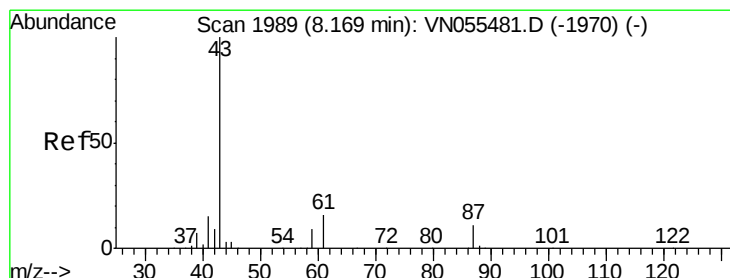
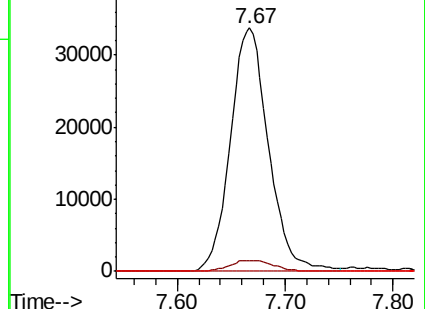
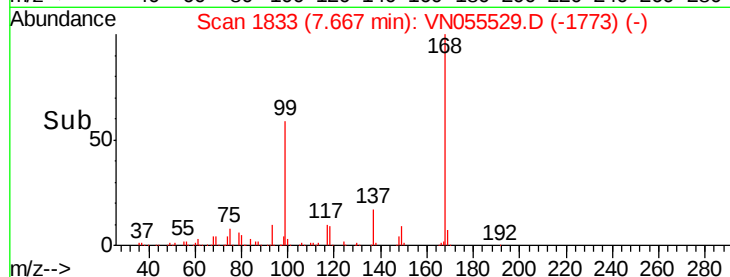
121 0.0 25.2 37.8#



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



#43

Isopropyl Acetate

Concen: 0.204 ug/l

RT: 8.25 min Scan# 2014

Delta R.T. 0.08 min

Lab File: VN055529.D

Acq: 10 May 2019 5:24

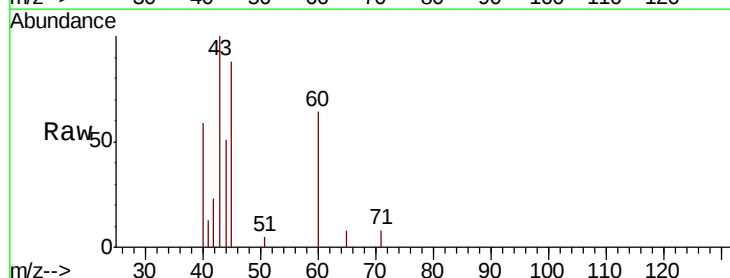
Tgt Ion: 43 Resp: 4883

Ion Ratio Lower Upper

43 100

61 0.0 15.1 22.7#

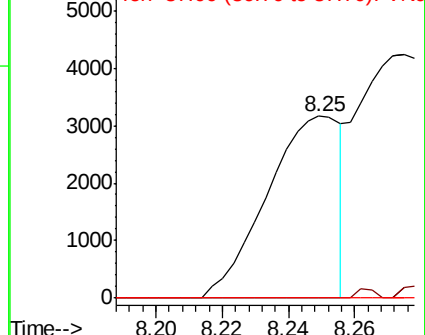
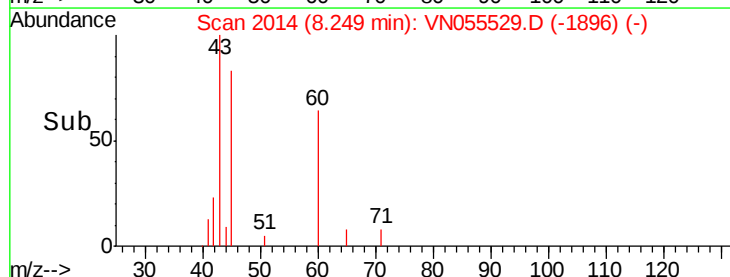
87 0.0 9.0 13.6#

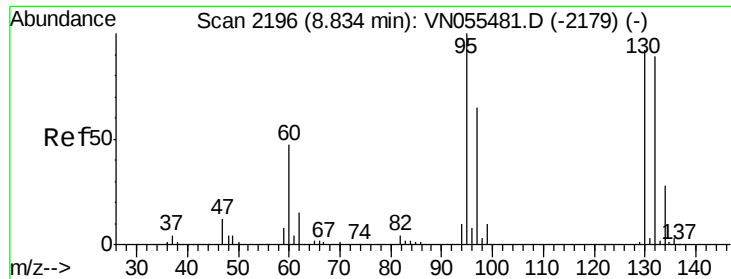


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#44

Trichloroethene

Concen: 0.318 ug/l

RT: 8.83 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN055529.D

Acq: 10 May 2019 5:24

Instrument :

MSVOA\_N

ClientSampleId :

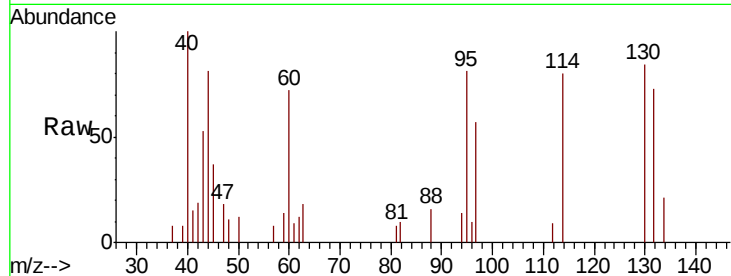
CKMW-06

Tot Ion:130 Resp: 3393

Ion Ratio Lower Upper

130 100

95 97.0 0.0 216.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.83

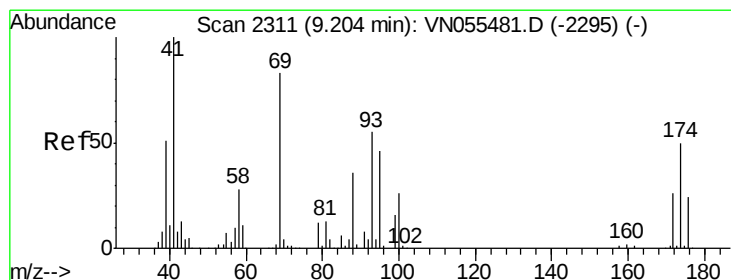
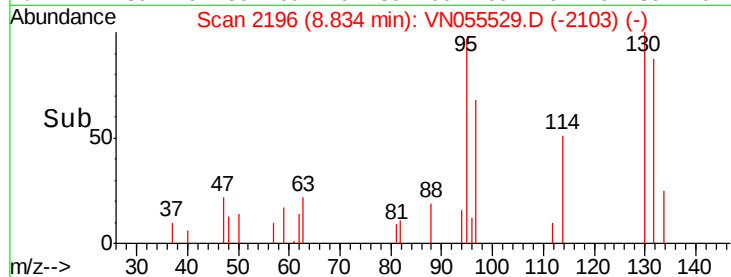
1500

1000

500

0

Time-->



#49

1,4-Dioxane

Concen: 0.320 ug/l

RT: 8.96 min Scan# 2234

Delta R.T. -0.25 min

Lab File: VN055529.D

Acq: 10 May 2019 5:24

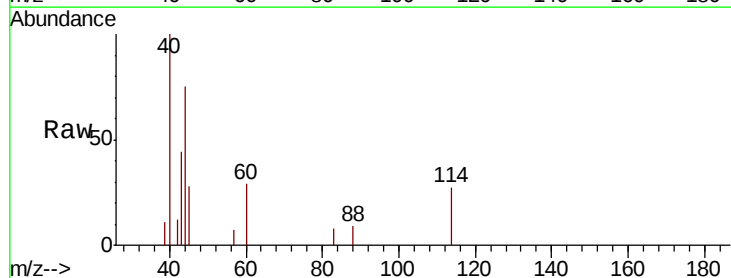
Tgt Ion: 88 Resp: 72

Ion Ratio Lower Upper

88 100

43 379.2 27.8 41.8#

58 0.0 61.8 92.6#



Abundance Ion 88.00 (87.70 to 88.70): VN

Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

1200

1000

800

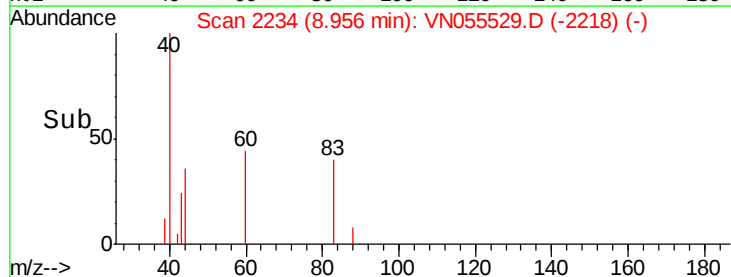
600

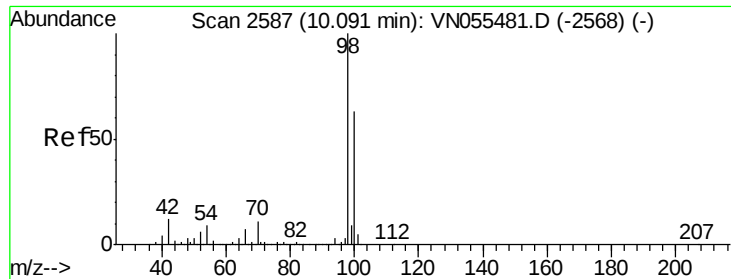
400

200

0

Time-->





#50

Toluene-d8

Concen: 48.610 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055529.D

Acq: 10 May 2019 5:24

Instrument :

MSVOA\_N

ClientSampleId :

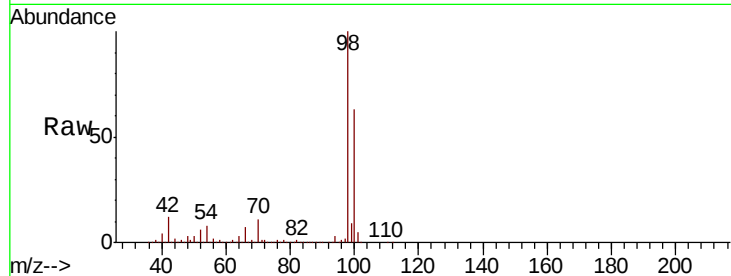
CKMW-06

Tot Ion: 98 Resp: 1791643

Ion Ratio Lower Upper

98 100

100 63.3 50.4 75.6



Abundance Ion 98.00 (97.70 to 98.70): VN055481.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN055481.D (-2568) (-)

10.09

800000

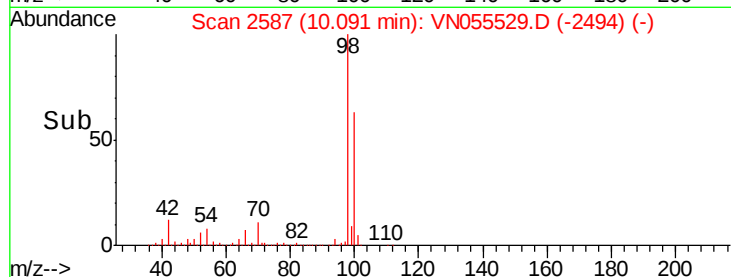
600000

400000

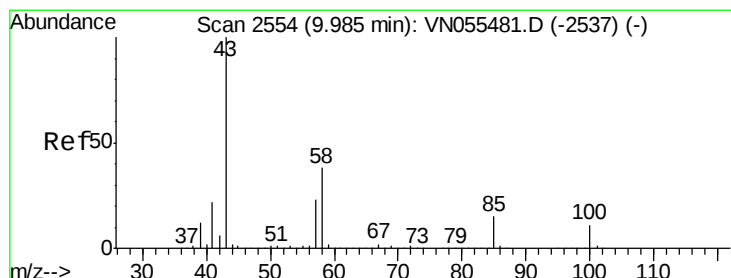
200000

0

10.00 10.10 10.20



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.496 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.11 min

Lab File: VN055529.D

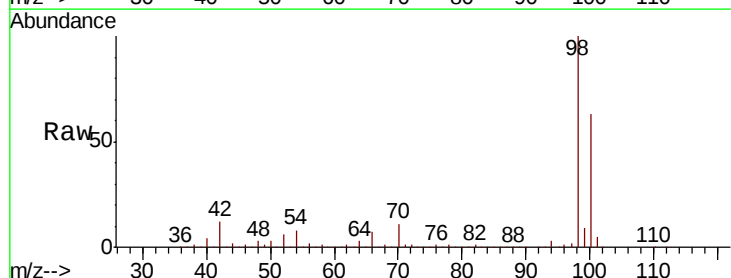
Acq: 10 May 2019 5:24

Tgt Ion: 43 Resp: 7809

Ion Ratio Lower Upper

43 100

58 186.8 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN055481.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN055481.D (-2537) (-)

10.09

8000

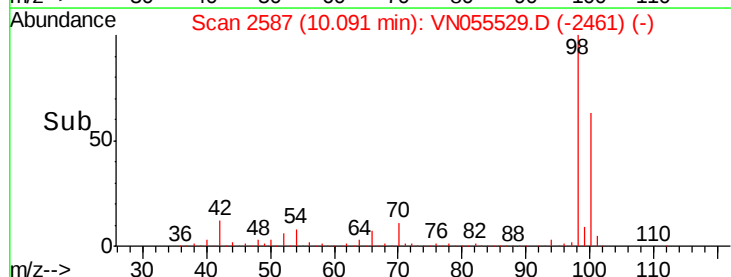
6000

4000

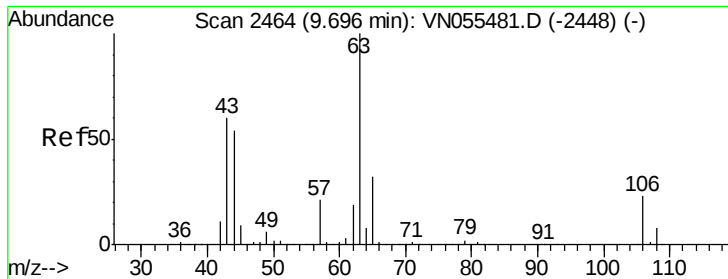
2000

0

10.05 10.10 10.15



Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 12.523 ug/l

RT: 9.57 min Scan# 2425

Delta R.T. -0.12 min

Lab File: VN055529.D

Acq: 10 May 2019 5:24

Instrument :

MSVOA\_N

ClientSampleId :

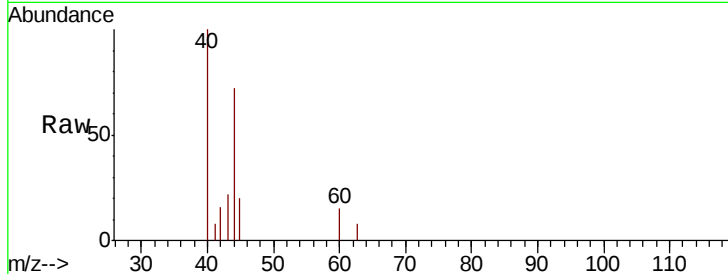
CKMW-06

Tot Ion: 63 Resp: 61

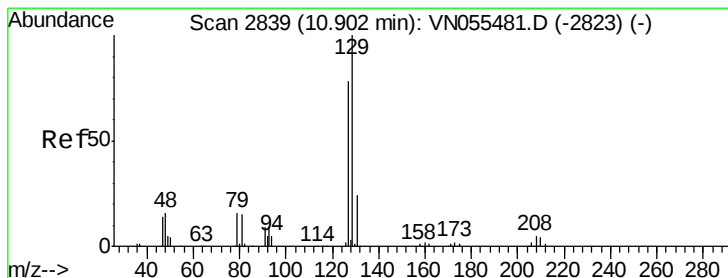
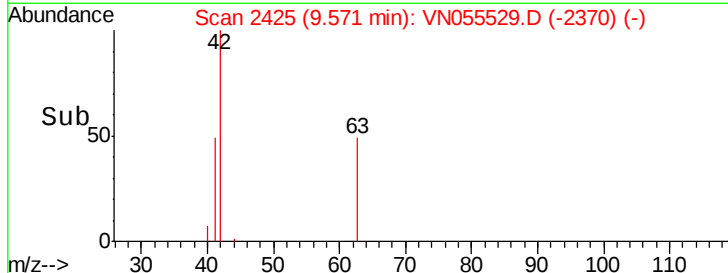
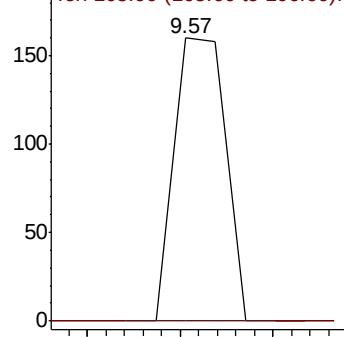
Ion Ratio Lower Upper

63 100

106 0.0 18.6 27.8#



Abundance Ion 62.90 (62.60 to 63.60): VN055481.D (-2448) (-)



#60

Dibromochloromethane

Concen: 0.669 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN055529.D

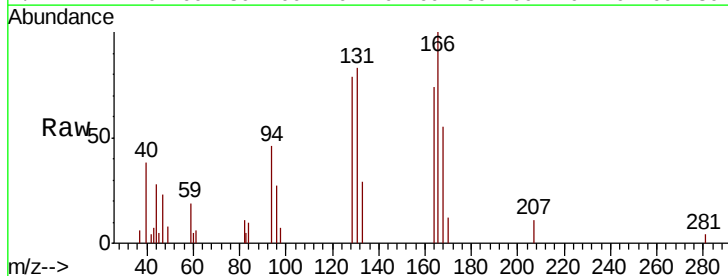
Acq: 10 May 2019 5:24

Tgt Ion: 129 Resp: 6315

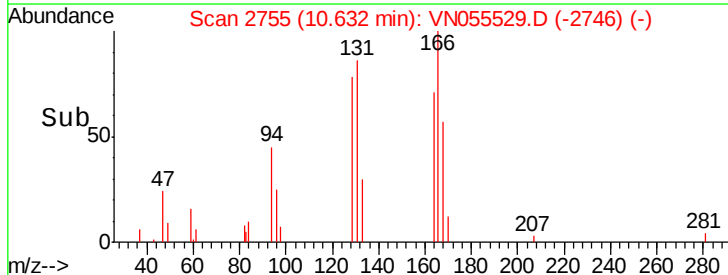
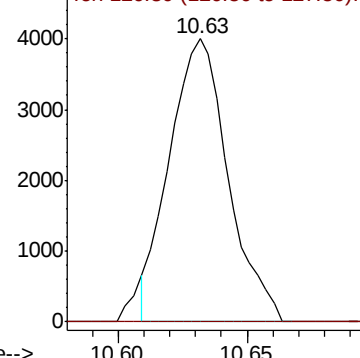
Ion Ratio Lower Upper

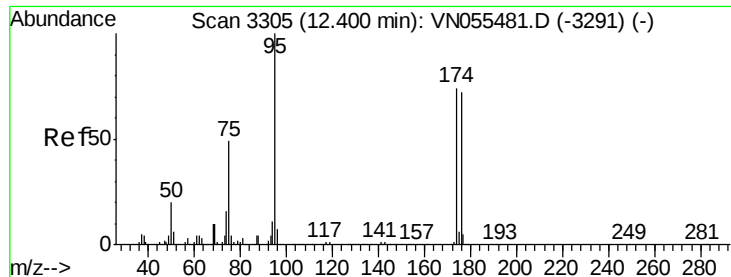
129 100

127 0.0 38.6 116.0#



Abundance Ion 128.80 (128.50 to 129.50): VN055481.D (-2823) (-)

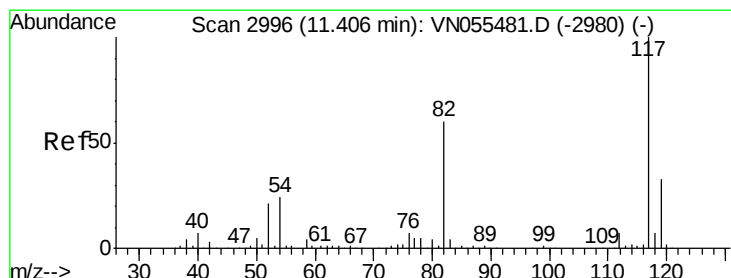
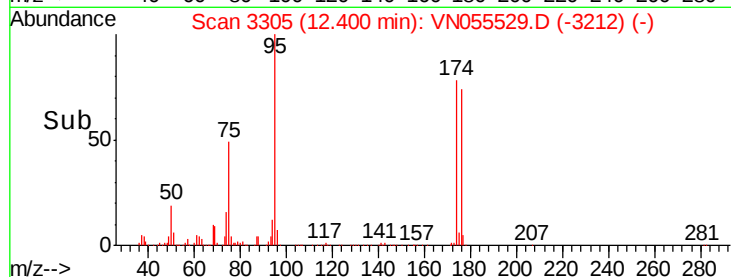
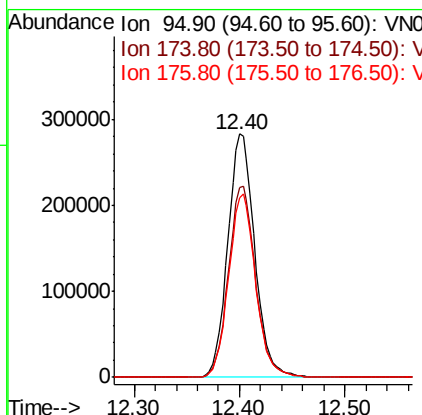
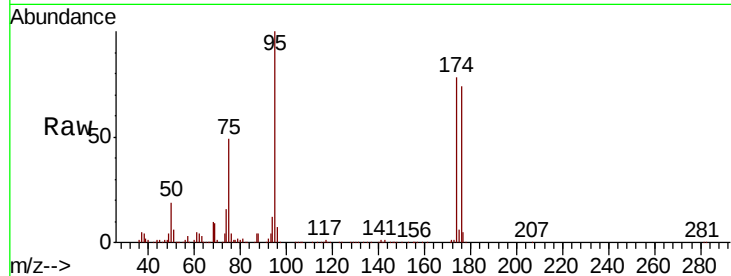




#62  
4-Bromofluorobenzene  
Concen: 40.196 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.00 min  
Lab File: VN055529.D  
Acq: 10 May 2019 5:24

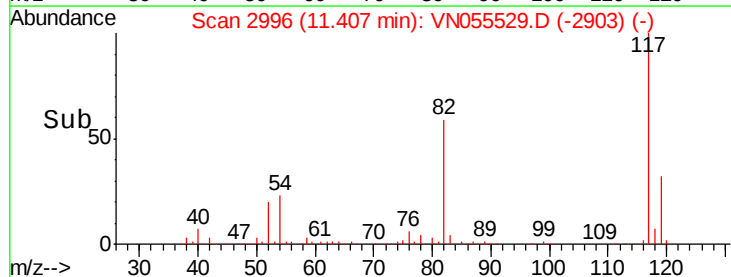
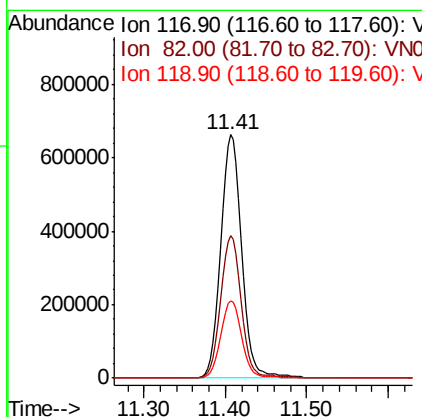
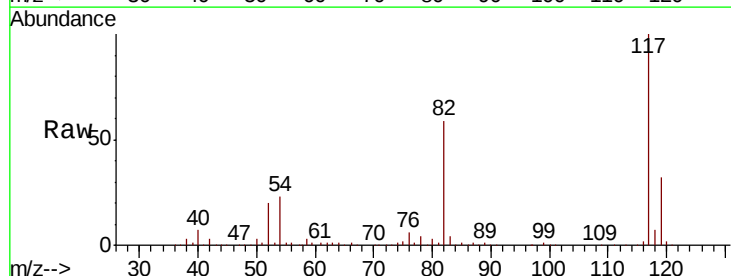
Instrument :  
MSVOA\_N  
ClientSampleId :  
CKMW-06

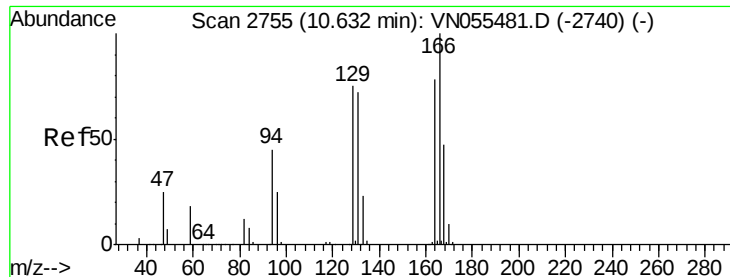
Tot Ion: 95 Resp: 499546  
Ion Ratio Lower Upper  
95 100  
174 78.8 0.0 152.2  
176 75.5 0.0 147.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.41 min Scan# 2996  
Delta R.T. 0.00 min  
Lab File: VN055529.D  
Acq: 10 May 2019 5:24

Tgt Ion: 117 Resp: 1212033  
Ion Ratio Lower Upper  
117 100  
82 58.6 48.0 72.0  
119 31.9 26.0 39.0





#64

Tetrachloroethene

Concen: 0.694 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN055529.D

Acq: 10 May 2019 5:24

Instrument :

MSVOA\_N

ClientSampleId :

CKMW-06

Tot Ion:164 Resp: 6890

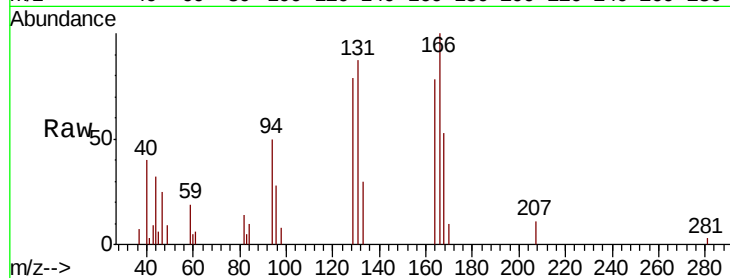
Ion Ratio Lower Upper

164 100

166 127.6 102.6 153.8

129 101.0 77.0 115.6

131 110.8 73.7 110.5#



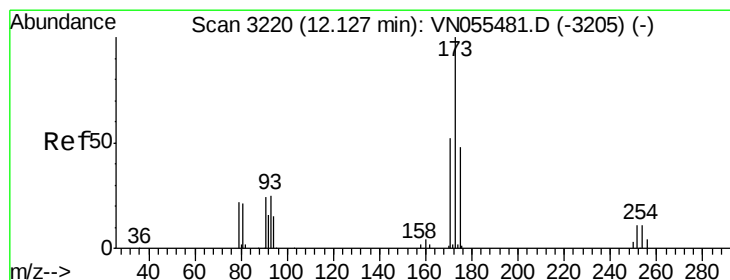
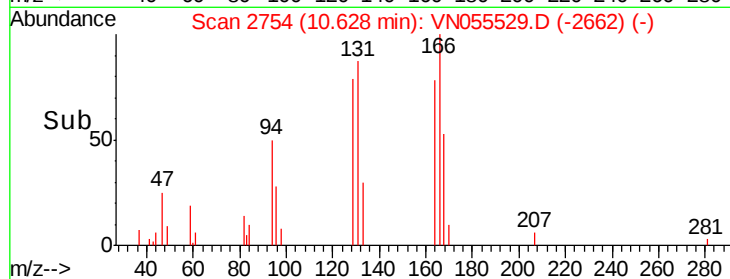
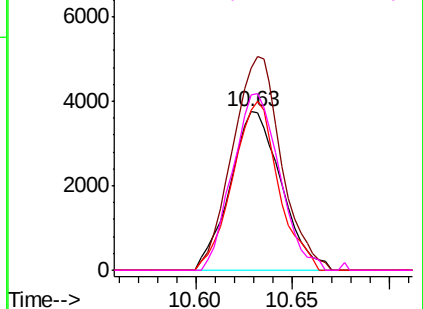
Abundance

Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.480 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055529.D

Acq: 10 May 2019 5:24

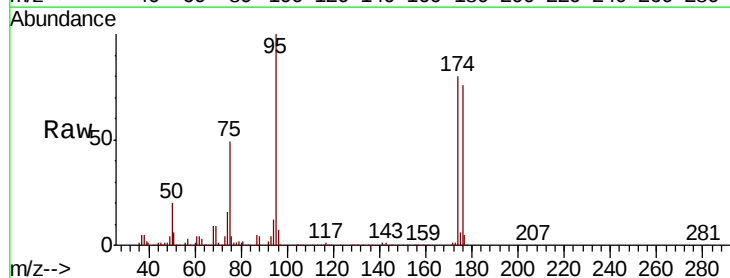
Tgt Ion:173 Resp: 2783

Ion Ratio Lower Upper

173 100

175 874.3 24.1 72.4#

254 0.0 0.1 0.1#

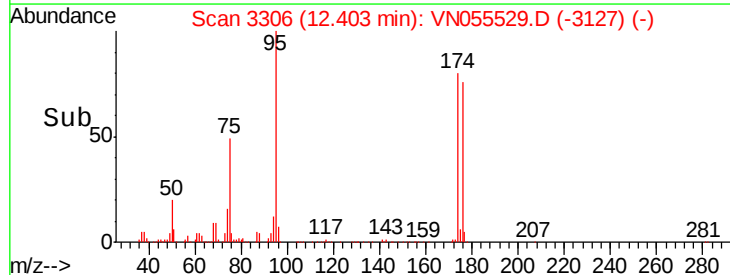
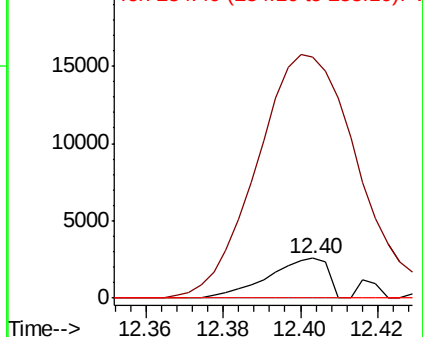


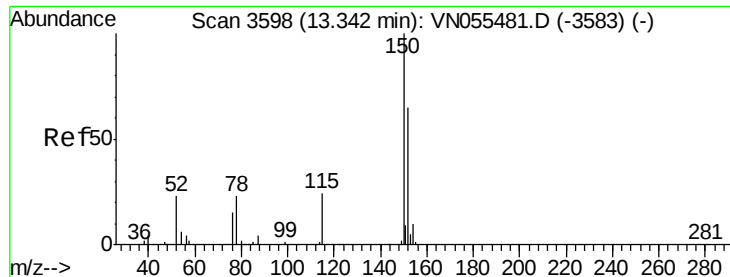
Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN055529.D

Acq: 10 May 2019 5:24

Instrument :

MSVOA\_N

ClientSampleId :

CKMW-06

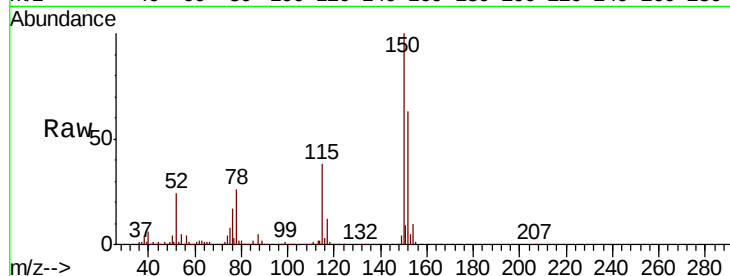
Tot Ion:152 Resp: 316756

Ion Ratio Lower Upper

152 100

115 59.9 30.1 90.5

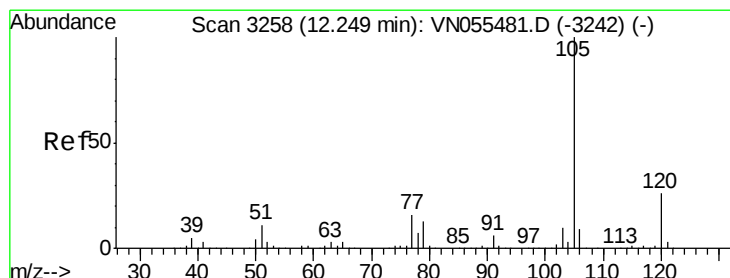
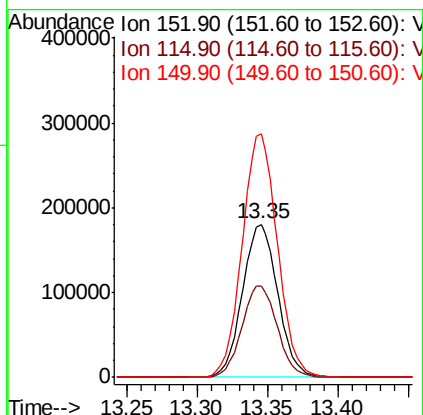
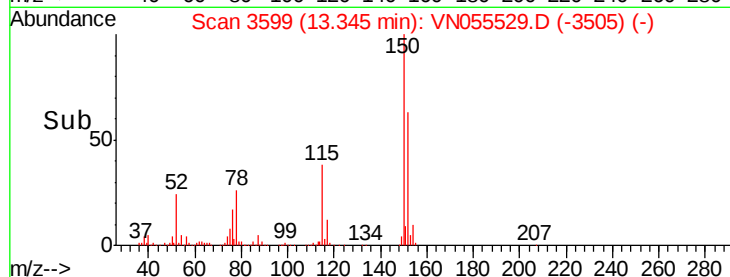
150 158.5 0.0 355.0



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN055529.D

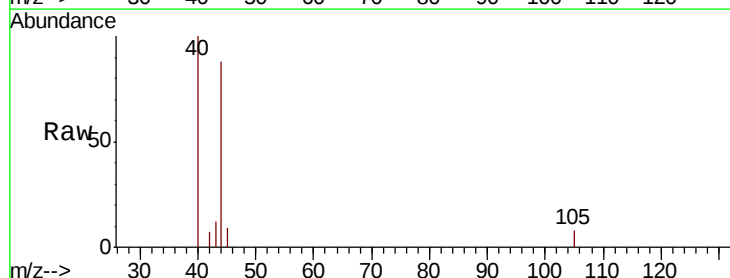
Acq: 10 May 2019 5:24

Tgt Ion:105 Resp: 64

Ion Ratio Lower Upper

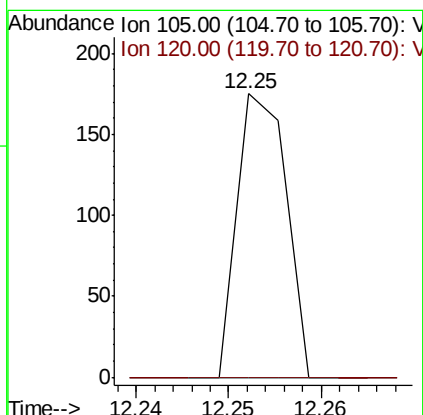
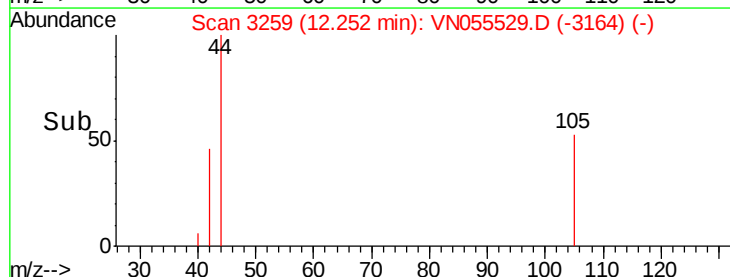
105 100

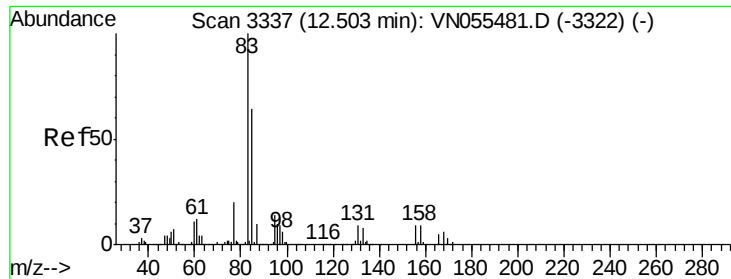
120 0.0 13.0 39.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.10 min

Lab File: VN055529.D

Acq: 10 May 2019 5:24

Instrument :

MSVOA\_N

ClientSampleId :

CKMW-06

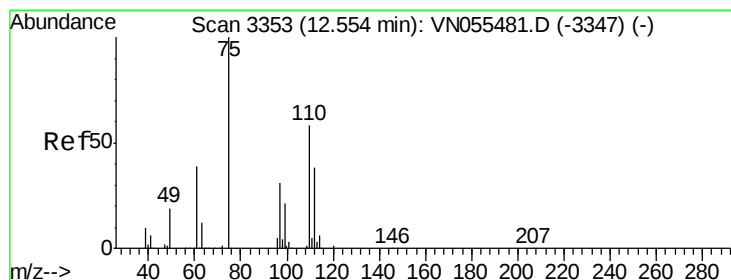
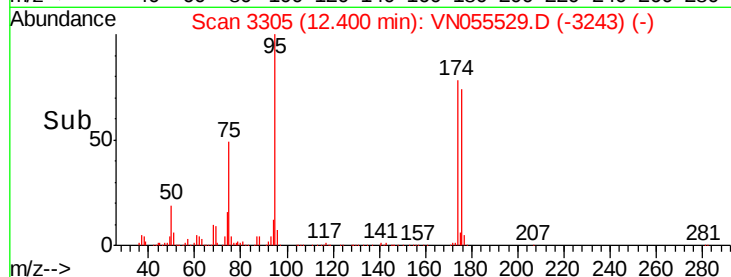
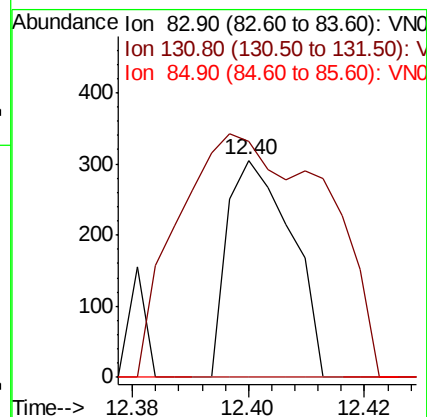
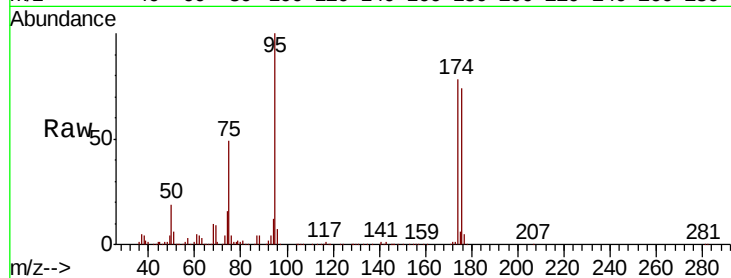
Tot Ion: 83 Resp: 232

Ion Ratio Lower Upper

83 100

131 261.2 4.5 13.5#

85 0.0 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 28.756 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055529.D

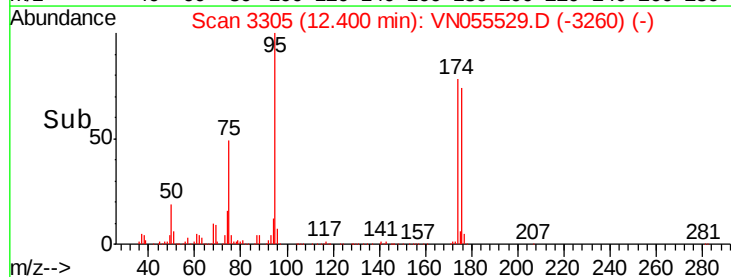
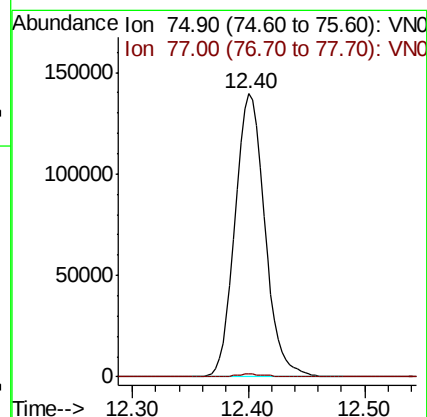
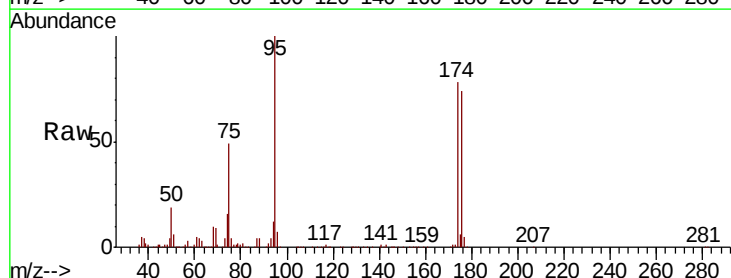
Acq: 10 May 2019 5:24

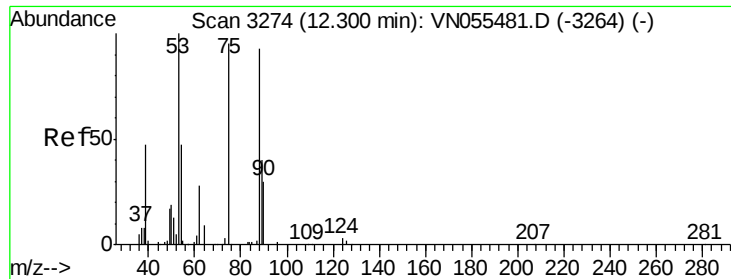
Tgt Ion: 75 Resp: 247971

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#

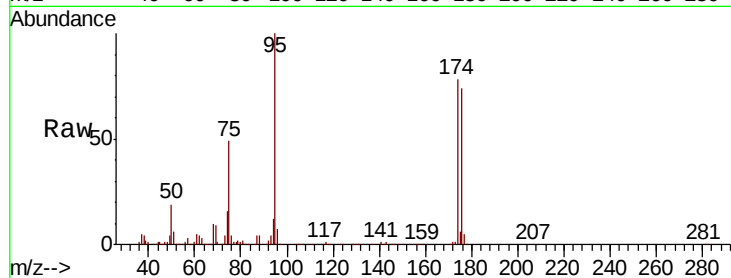




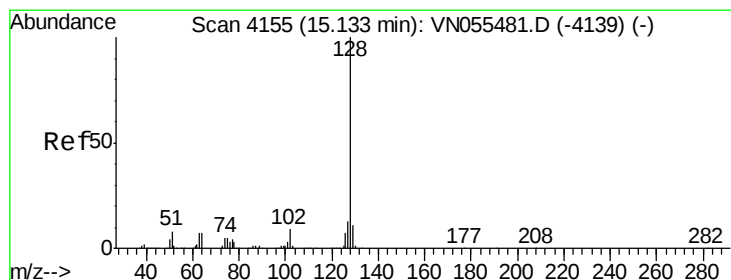
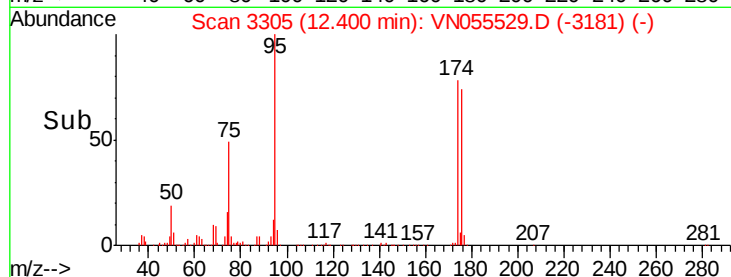
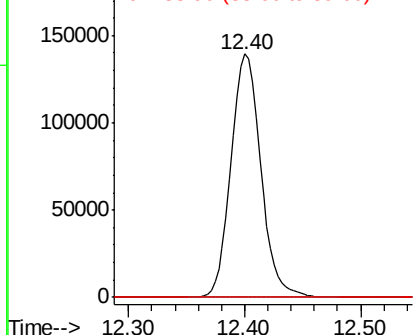
#81  
trans-1,4-Dichloro-2-butene  
Concen: 106.107 ug/l  
RT: 12.40 min Scan# 3305  
Delta R.T. 0.10 min  
Lab File: VN055529.D  
Acq: 10 May 2019 5:24

Instrument :  
MSVOA\_N  
ClientSampleId :  
CKMW-06

Tot Ion: 75 Resp: 247971  
Ion Ratio Lower Upper  
75 100  
53 0.0 86.5 129.7#  
89 0.0 35.7 53.5#

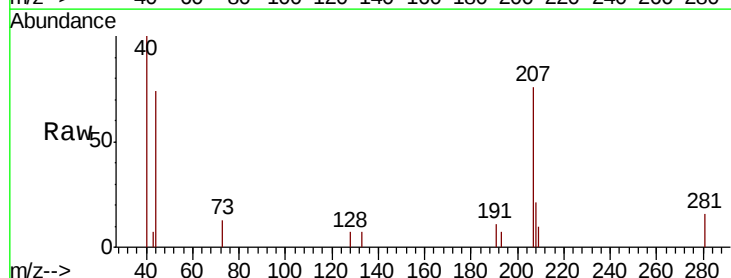


Abundance Ion 74.90 (74.60 to 75.60): VN0  
Ion 53.00 (52.70 to 53.70): VN0  
Ion 88.90 (88.60 to 89.60): VN0



#95  
Naphthalene  
Concen: 2.939 ug/l  
RT: 15.15 min Scan# 4159  
Delta R.T. 0.01 min  
Lab File: VN055529.D  
Acq: 10 May 2019 5:24

Tgt Ion: 128 Resp: 32  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.0 15.0#  
129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

