

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY122419\  
 Data File : VY001052.D  
 Acq On : 24 Dec 2019 16:45  
 Operator : SY/MD  
 Sample : K6413-11  
 Misc : 8.74G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 K005-AB-SB4

Quant Time: Dec 25 01:39:17 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y122319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 23 12:07:44 2019  
 Response via : Initial Calibration

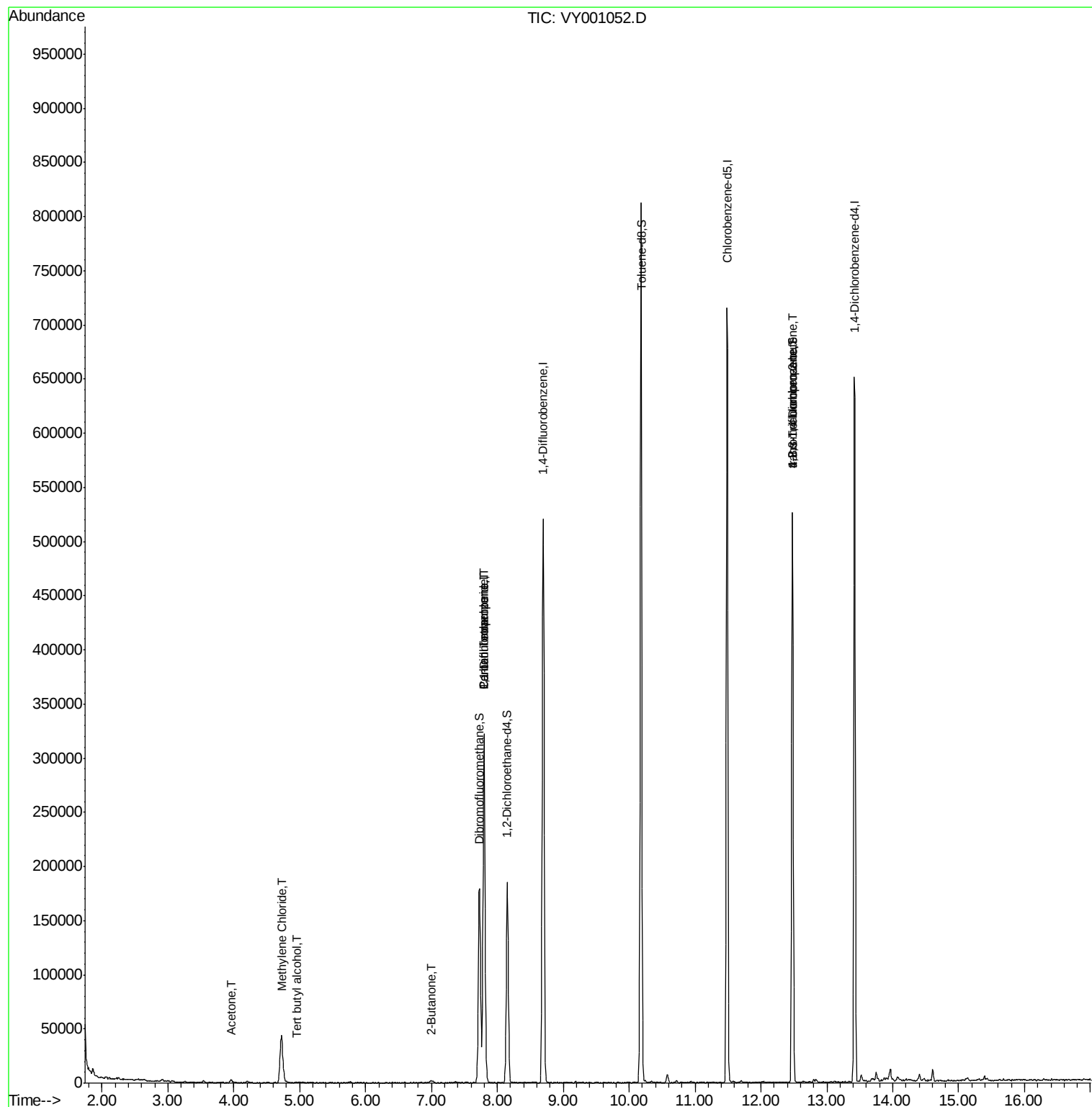
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene          | 7.80  | 168  | 241375   | 50.00  | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.69  | 114  | 452531   | 50.00  | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.49 | 117  | 396675   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.42 | 152  | 164732   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.15  | 65   | 134163   | 56.36  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 112.72% |          |
| 35) Dibromofluoromethane       | 7.72  | 113  | 132079   | 49.57  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 99.14%  |          |
| 50) Toluene-d8                 | 10.18 | 98   | 531814   | 51.07  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 102.14% |          |
| 62) 4-Bromofluorobenzene       | 12.48 | 95   | 166179   | 43.65  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 87.30%  |          |
| Target Compounds               |       |      |          |        |         |          |
|                                |       |      |          |        | Qvalue  |          |
| 11) Tert butyl alcohol         | 4.96  | 59   | 432      | 1.650  | ug/l #  | 74       |
| 16) Acetone                    | 3.96  | 43   | 4482     | 8.172  | ug/l    | 91       |
| 20) Methylene Chloride         | 4.72  | 84   | 32738    | 10.142 | ug/l    | 88       |
| 25) 2-Butanone                 | 7.00  | 43   | 1102     | 1.144  | ug/l #  | 47       |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 18054    | 4.182  | ug/l #  | 49       |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 23279    | 6.155  | ug/l #  | 16       |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 82363    | 40.557 | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 82363    | 86.498 | ug/l #  | 19       |

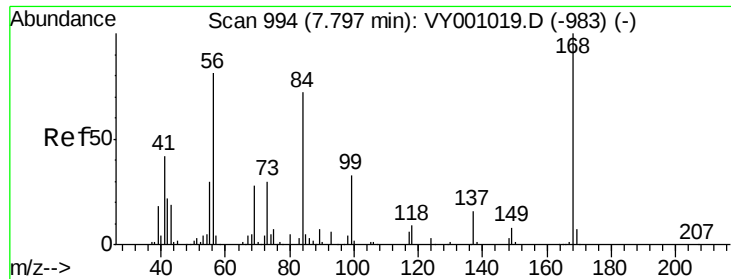
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\DATA\VY122419\  
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Instrument :  
MSVOA\_Y  
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K005-AB-SB4

Quant Time: Dec 25 01:39:17 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y122319S.M  
Quant Title : SW846 8260  
QLast Update : Mon Dec 23 12:07:44 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY001052.D

Acq: 24 Dec 2019 16:45

Instrument :

MSVOA\_Y

ClientSampleId :

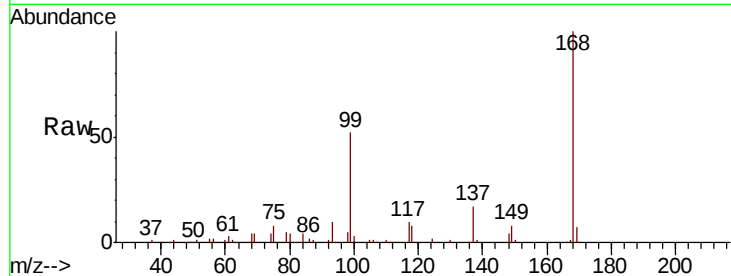
K005-AB-SB4

Tgt Ion:168 Resp: 241375

Ion Ratio Lower Upper

168 100

99 52.0 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VY001019.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY001019.D (-983) (-)

7.80

120000

100000

80000

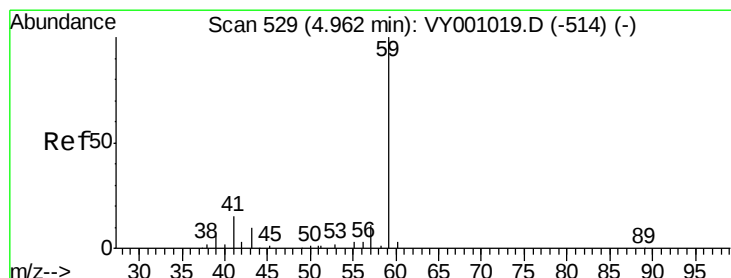
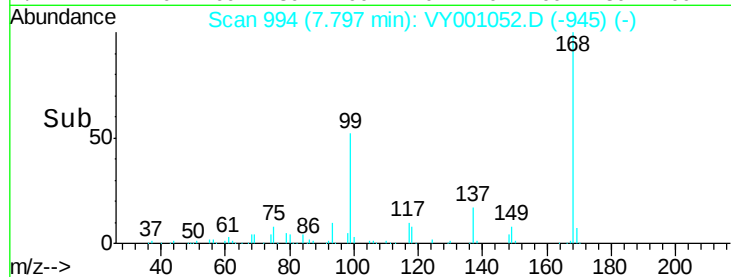
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.650 ug/l

RT: 4.96 min Scan# 528

Delta R.T. -0.01 min

Lab File: VY001052.D

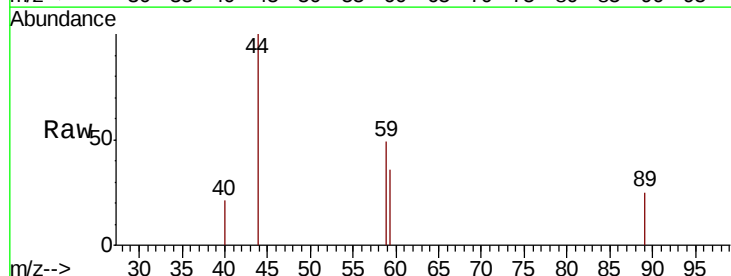
Acq: 24 Dec 2019 16:45

Tgt Ion: 59 Resp: 432

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VY001019.D (-514) (-)

Ion 57.00 (56.70 to 57.70): VY001019.D (-514) (-)

4.96

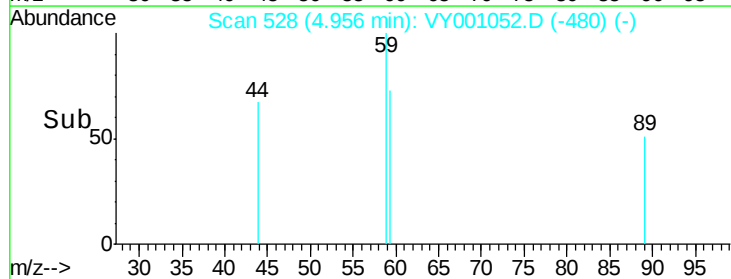
300

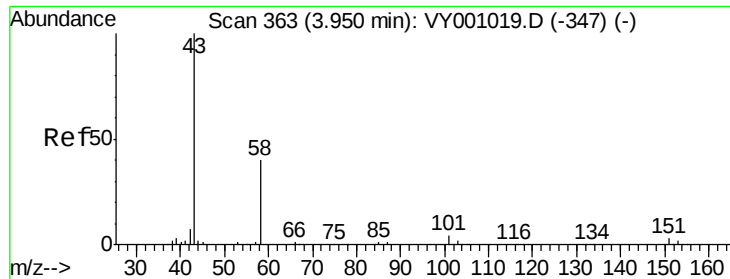
200

100

0

Time-->





#16

Acetone

Concen: 8.172 ug/l

RT: 3.96 min Scan# 364

Delta R.T. 0.01 min

Lab File: VY001052.D

Acq: 24 Dec 2019 16:45

Instrument :

MSVOA\_Y

ClientSampleId :

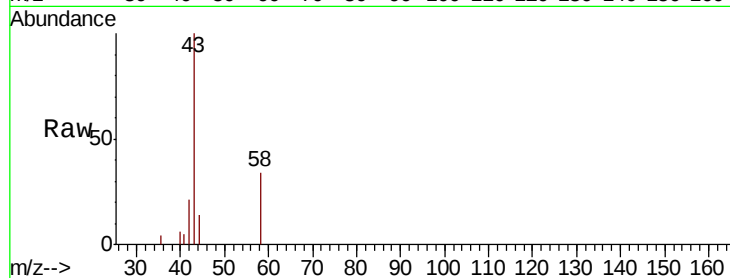
K005-AB-SB4

Tgt Ion: 43 Resp: 4482

Ion Ratio Lower Upper

43 100

58 34.4 32.1 48.1



Abundance Ion 43.00 (42.70 to 43.70): VY001019.D (-347) (-)

Ion 58.00 (57.70 to 58.70): VY001019.D (-347) (-)

2000

1500

1000

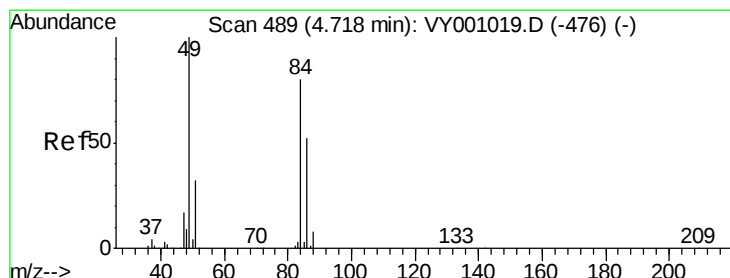
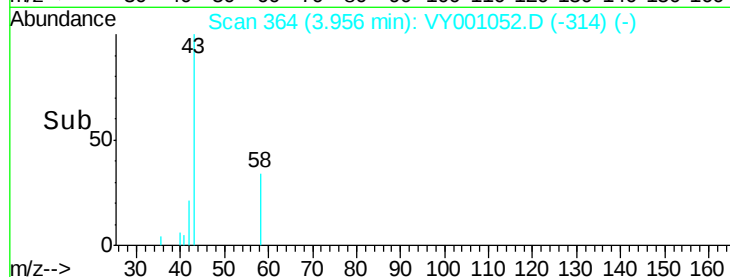
500

0

3.96

3.85 3.90 3.95 4.00 4.05

Time-->



#20

Methylene Chloride

Concen: 10.142 ug/l

RT: 4.72 min Scan# 490

Delta R.T. 0.01 min

Lab File: VY001052.D

Acq: 24 Dec 2019 16:45

Tgt Ion: 84 Resp: 32738

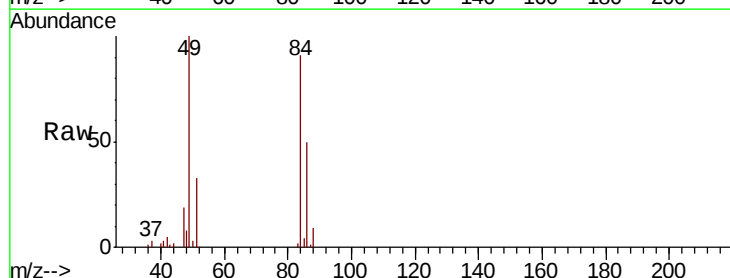
Ion Ratio Lower Upper

84 100

49 109.6 99.8 149.6

51 35.4 31.4 47.2

86 54.4 52.2 78.2



Abundance Ion 83.90 (83.60 to 84.60): VY001019.D (-476) (-)

Ion 48.90 (48.60 to 49.60): VY001019.D (-476) (-)

Ion 50.90 (50.60 to 51.60): VY001019.D (-476) (-)

Ion 85.90 (85.60 to 86.60): VY001019.D (-476) (-)

20000

15000

10000

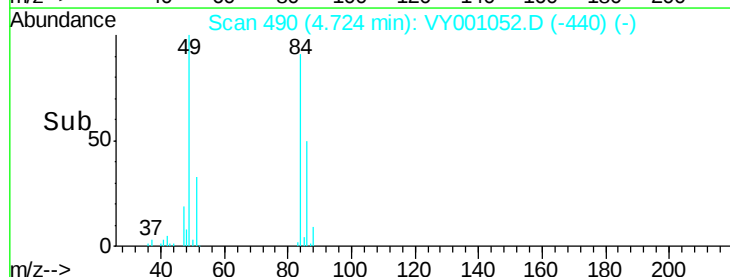
5000

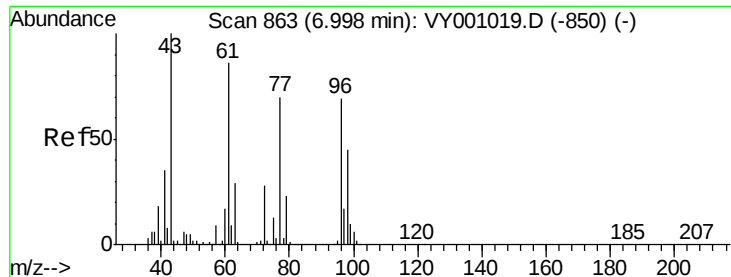
0

4.72

4.60 4.70 4.80

Time-->





#25

2-Butanone

Concen: 1.144 ug/l

RT: 7.00 min Scan# 863

Delta R.T. 0.00 min

Lab File: VY001052.D

Acq: 24 Dec 2019 16:45

Instrument :

MSVOA\_Y

ClientSampleId :

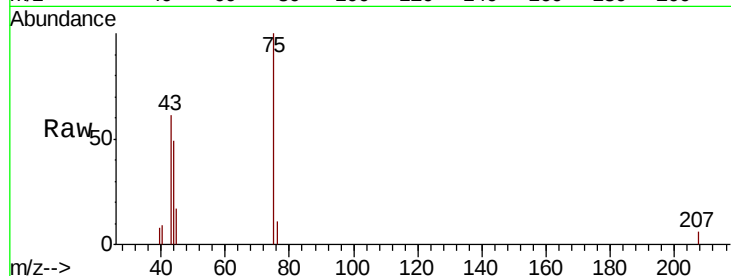
K005-AB-SB4

Tgt Ion: 43 Resp: 1102

Ion Ratio Lower Upper

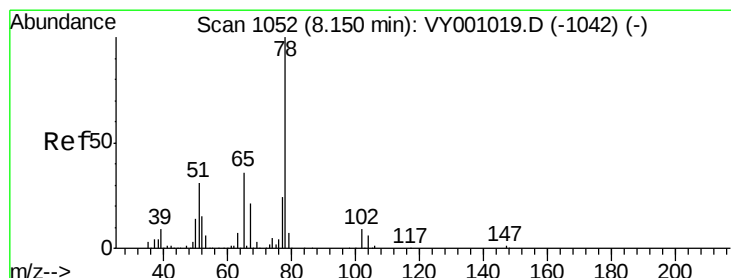
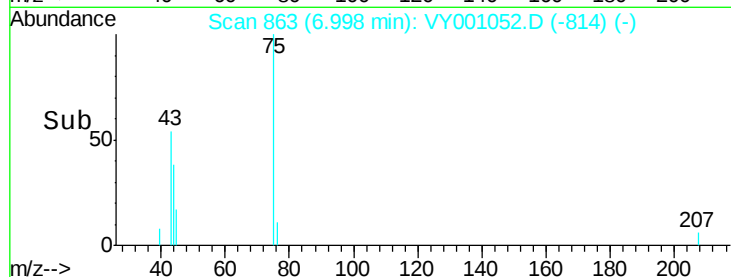
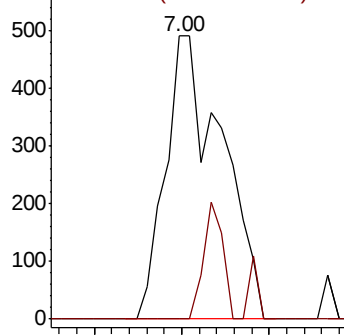
43 100

72 0.0 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 56.356 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VY001052.D

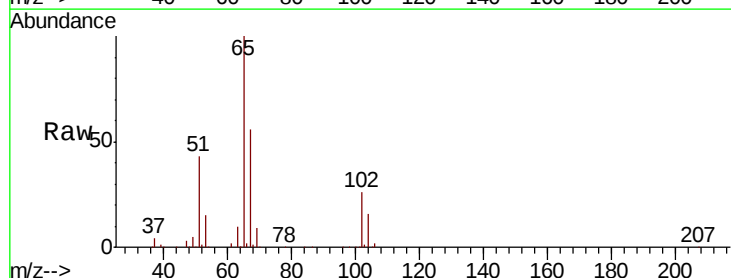
Acq: 24 Dec 2019 16:45

Tgt Ion: 65 Resp: 134163

Ion Ratio Lower Upper

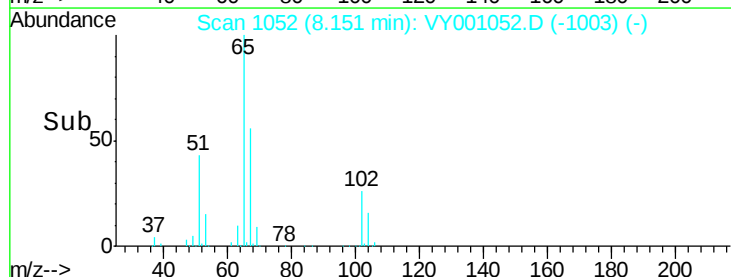
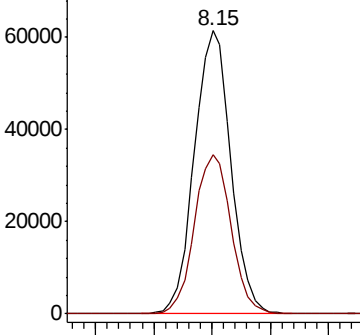
65 100

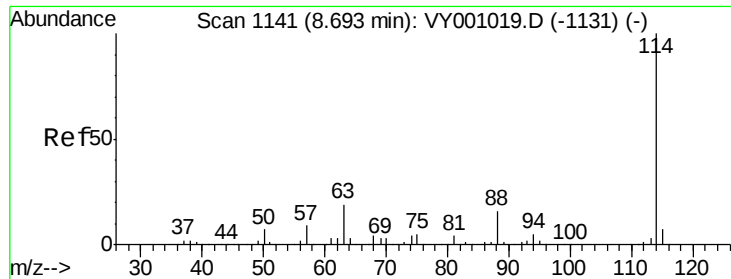
67 56.8 0.0 112.8



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

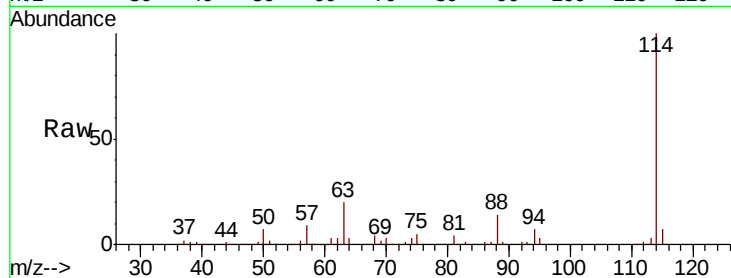




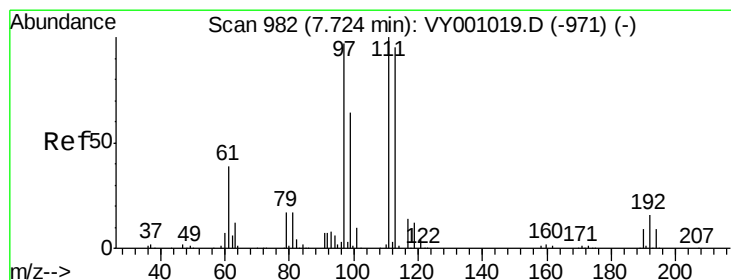
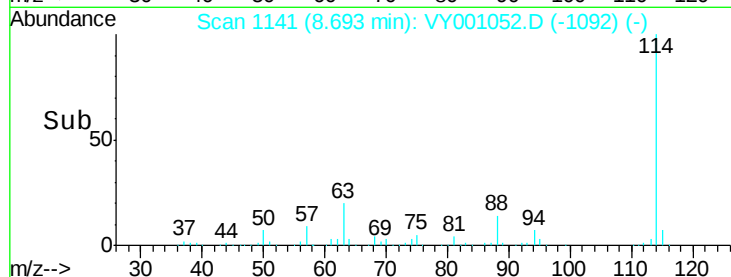
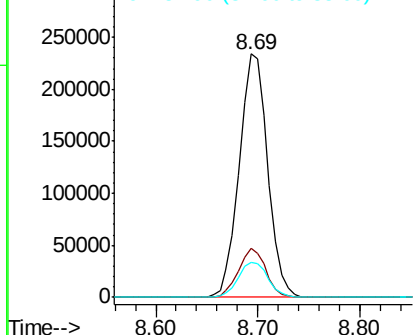
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1141  
 Delta R.T. 0.00 min  
 Lab File: VY001052.D  
 Acq: 24 Dec 2019 16:45

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 K005-AB-SB4

Tgt Ion:114 Resp: 452531  
 Ion Ratio Lower Upper  
 114 100  
 63 19.9 0.0 37.0  
 88 14.5 0.0 32.0

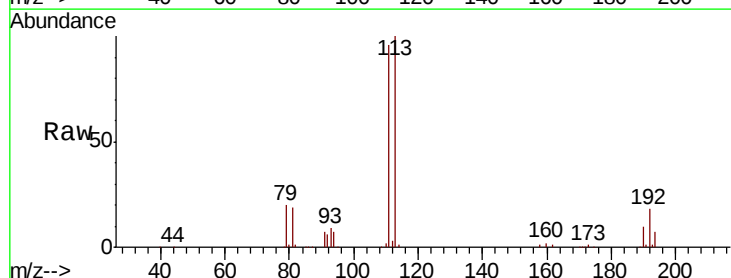


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VY0  
 Ion 87.90 (87.60 to 88.60): VY0

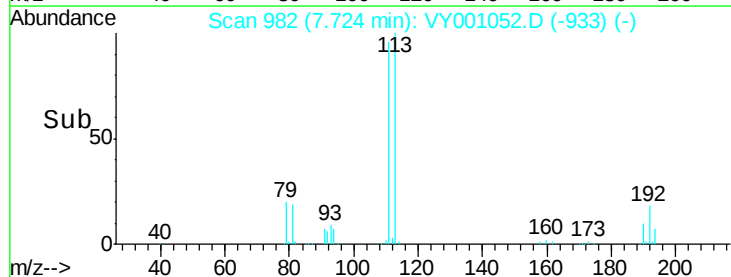
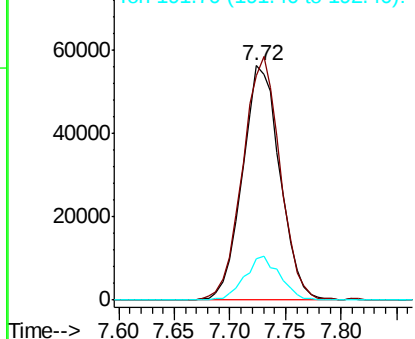


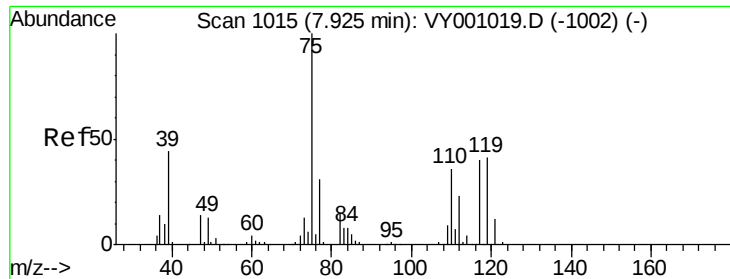
#35  
 Dibromofluoromethane  
 Concen: 49.565 ug/l  
 RT: 7.72 min Scan# 982  
 Delta R.T. 0.00 min  
 Lab File: VY001052.D  
 Acq: 24 Dec 2019 16:45

Tgt Ion:113 Resp: 132079  
 Ion Ratio Lower Upper  
 113 100  
 111 103.7 83.0 124.4  
 192 17.5 14.6 21.8



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

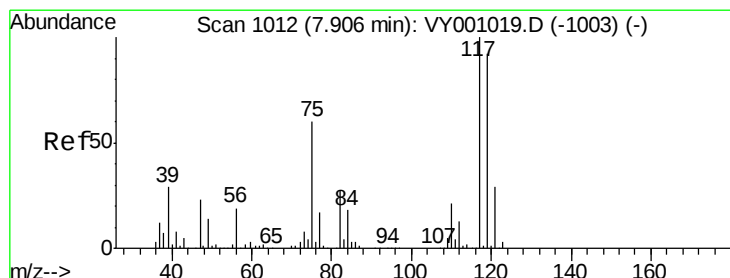
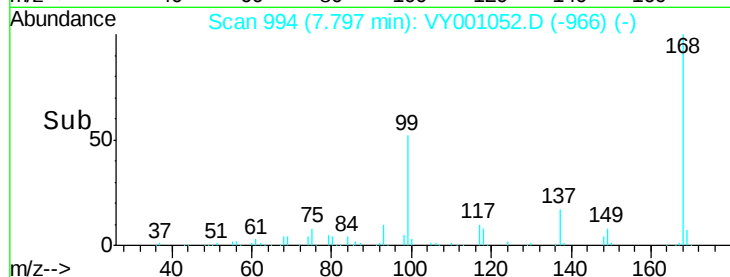
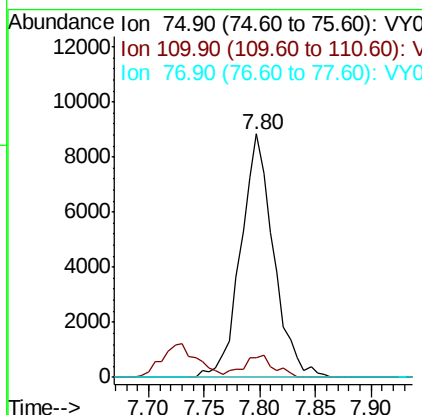
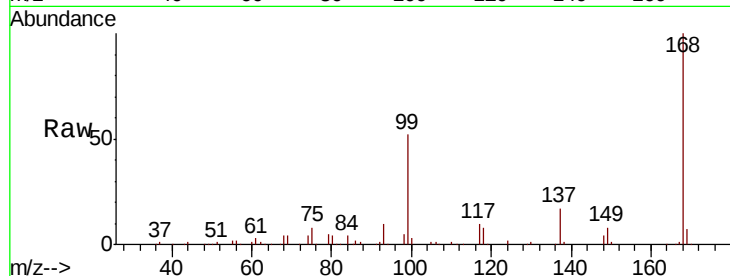




#36  
 1,1-Dichloropropene  
 Concen: 4.182 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY001052.D  
 Acq: 24 Dec 2019 16:45

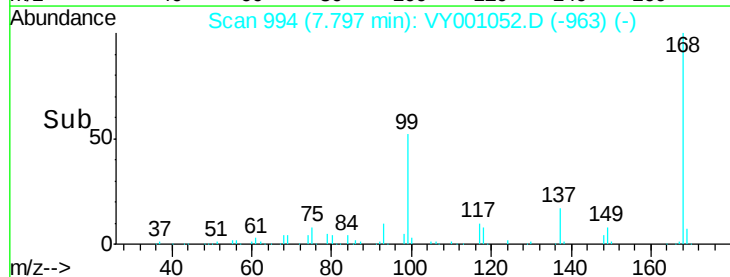
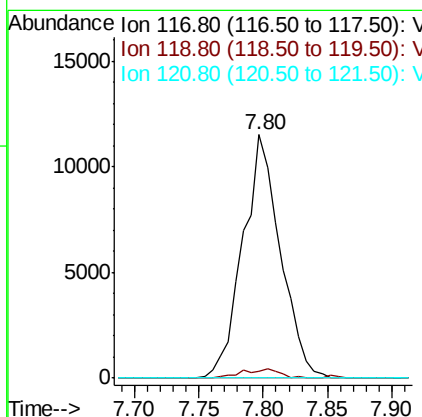
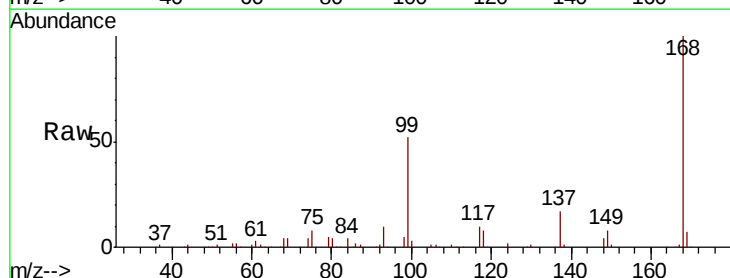
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 K005-AB-SB4

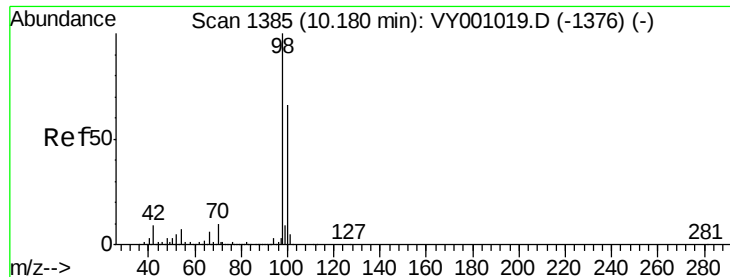
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.6   | 18.1  | 54.4# |
| 77      | 0.0   | 24.6  | 37.0# |



#38  
 Carbon Tetrachloride  
 Concen: 6.155 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.11 min  
 Lab File: VY001052.D  
 Acq: 24 Dec 2019 16:45

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 2.8   | 74.2  | 111.2# |
| 121     | 0.0   | 22.9  | 34.3#  |





#50

Toluene-d8

Concen: 51.068 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY001052.D

Acq: 24 Dec 2019 16:45

Instrument :

MSVOA\_Y

ClientSampleId :

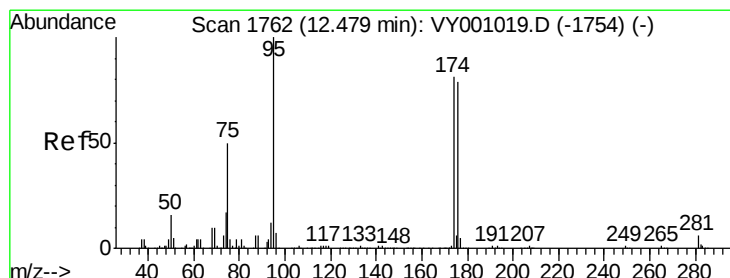
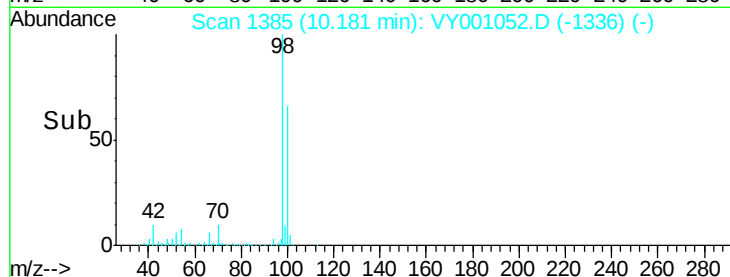
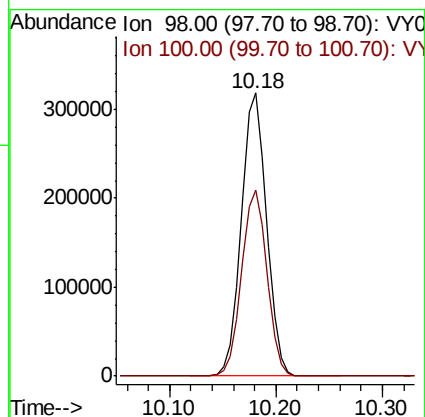
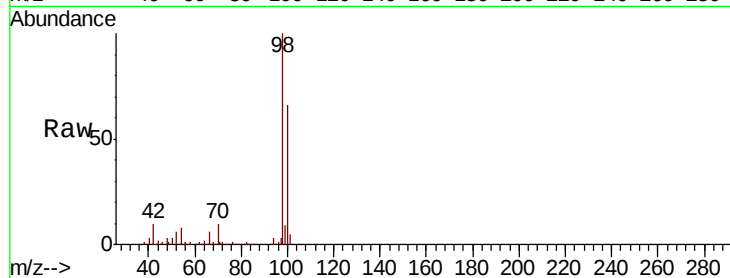
K005-AB-SB4

Tgt Ion: 98 Resp: 531814

Ion Ratio Lower Upper

98 100

100 66.1 53.0 79.4



#62

4-Bromofluorobenzene

Concen: 43.646 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY001052.D

Acq: 24 Dec 2019 16:45

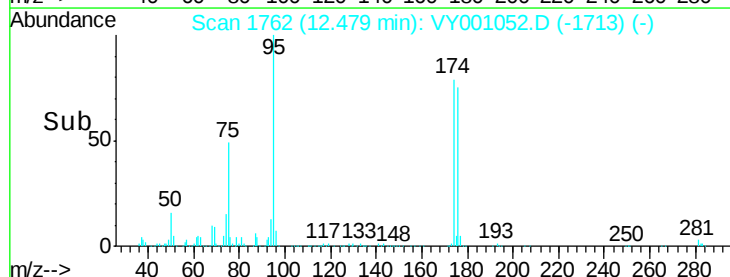
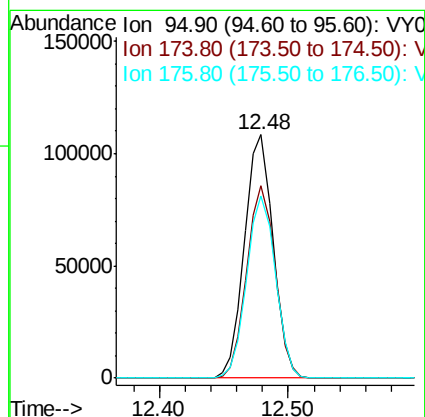
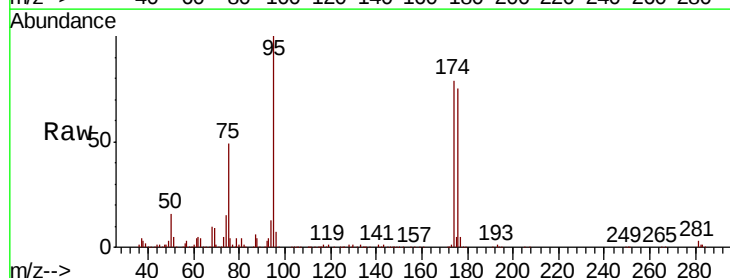
Tgt Ion: 95 Resp: 166179

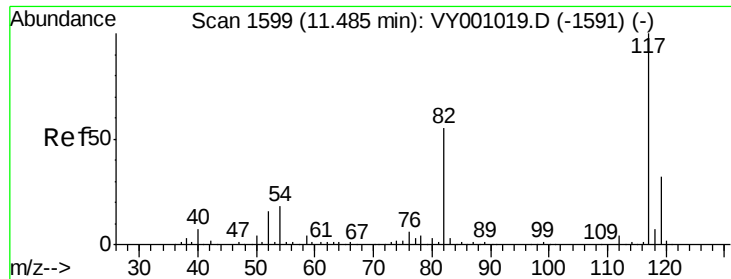
Ion Ratio Lower Upper

95 100

174 78.6 0.0 156.4

176 75.4 0.0 155.0

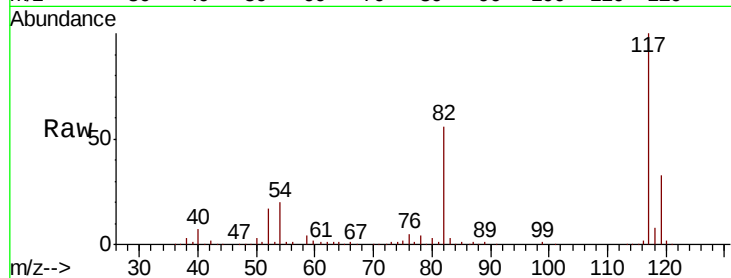




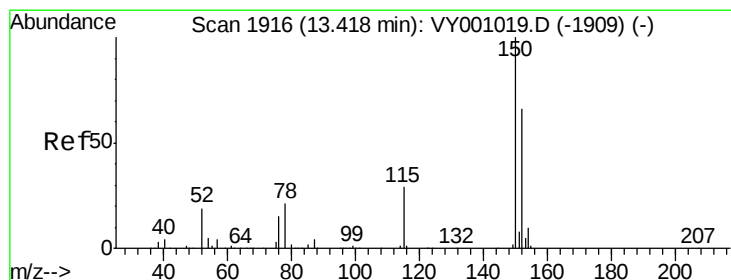
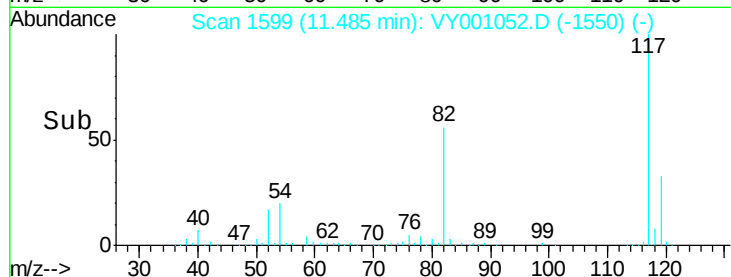
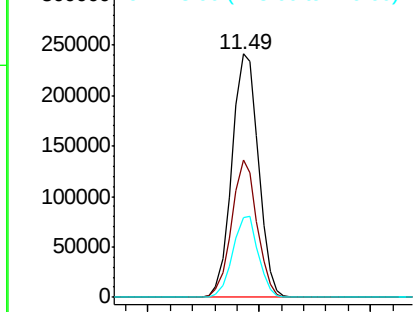
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1599  
Delta R.T. 0.00 min  
Lab File: VY001052.D  
Acq: 24 Dec 2019 16:45

Instrument :  
MSVOA\_Y  
ClientSampleId :  
K005-AB-SB4

Tgt Ion:117 Resp: 396675  
Ion Ratio Lower Upper  
117 100  
82 56.4 43.8 65.8  
119 32.6 25.8 38.6

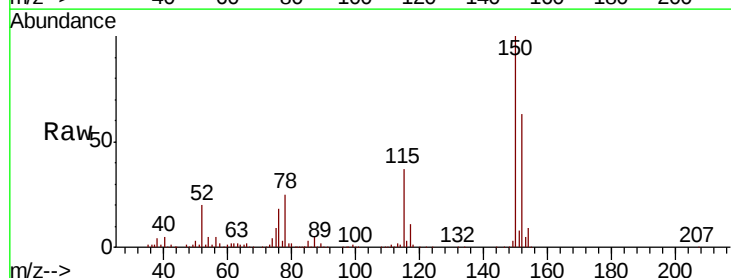


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

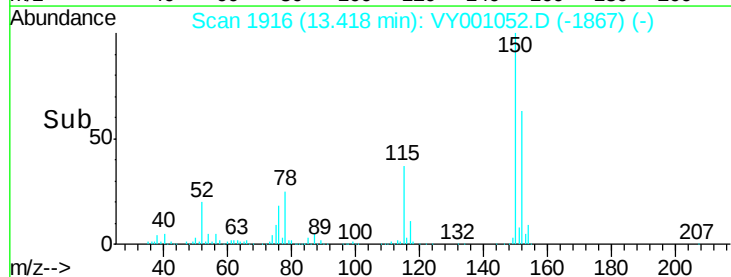
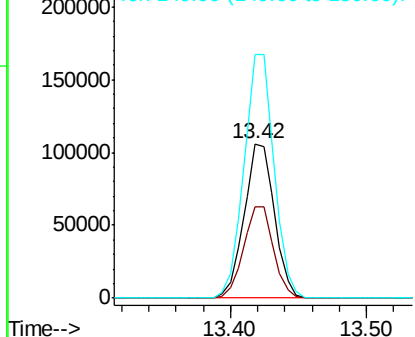


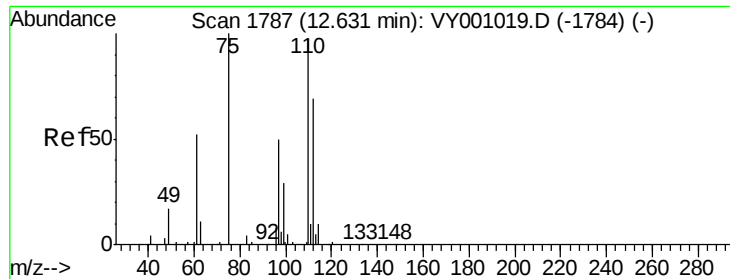
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1916  
Delta R.T. 0.00 min  
Lab File: VY001052.D  
Acq: 24 Dec 2019 16:45

Tgt Ion:152 Resp: 164732  
Ion Ratio Lower Upper  
152 100  
115 58.4 29.8 89.3  
150 157.1 0.0 352.6



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

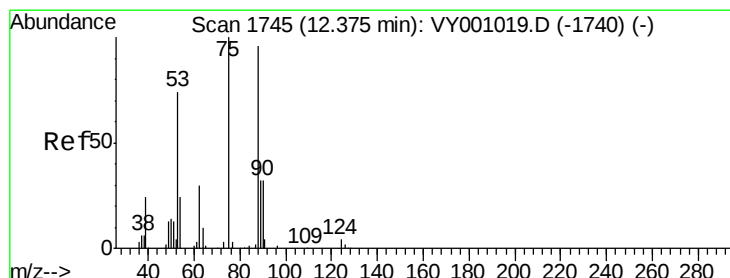
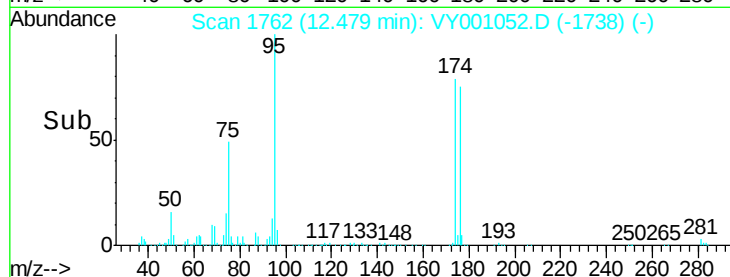
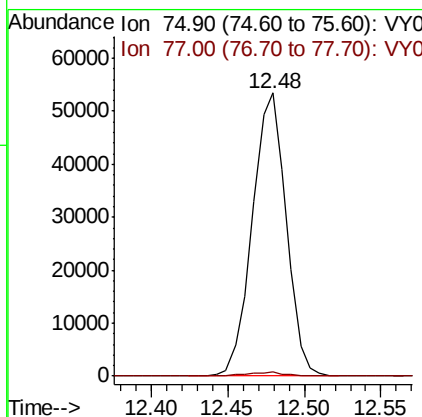
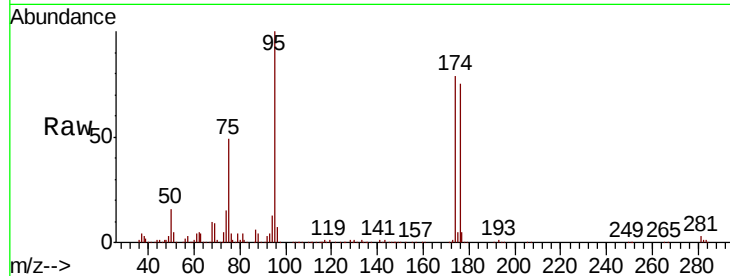




#76  
 1,2,3-Trichloropropane  
 Concen: 40.557 ug/l  
 RT: 12.48 min Scan# 1762  
 Delta R.T. -0.15 min  
 Lab File: VY001052.D  
 Acq: 24 Dec 2019 16:45

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 K005-AB-SB4

Tgt Ion: 75 Resp: 82363  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 0.0 0.0#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 86.498 ug/l  
 RT: 12.48 min Scan# 1762  
 Delta R.T. 0.10 min  
 Lab File: VY001052.D  
 Acq: 24 Dec 2019 16:45

Tgt Ion: 75 Resp: 82363  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 60.6 91.0#  
 89 0.2 35.4 53.0#

