

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY011520\  
 Data File : VY001228.D  
 Acq On : 15 Jan 2020 18:59  
 Operator : SY/MD  
 Sample : L1127-06  
 Misc : 6.98G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 QVD-SB-01-1.5-2

Quant Time: Jan 16 04:52:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y011020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 10 16:01:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 172423   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 308005   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 261918   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 97384    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 94150    | 51.70 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.40% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 91514    | 50.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.50% |          |
| 50) Toluene-d8              | 10.18 | 98   | 356303   | 51.28 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.56% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 116251   | 40.92 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.84%  |          |

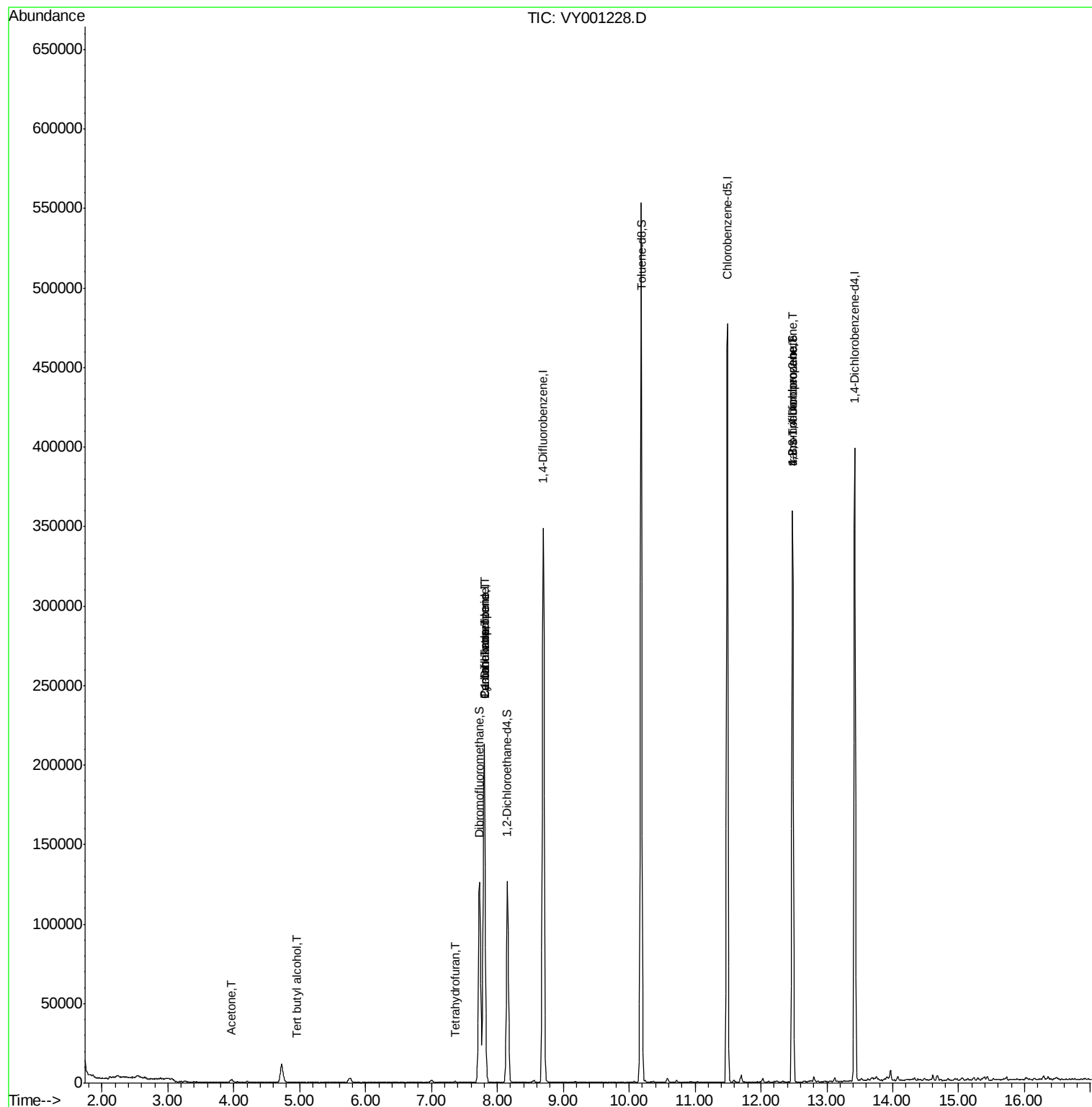
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.95  | 59   | 214      | 1.168     | ug/l # | 73     |
| 16) Acetone                    | 3.96  | 43   | 3636     | 8.597     | ug/l   | 99     |
| 20) Methylene Chloride         | 4.72  | 84   | 8388     | Below Cal |        | 91     |
| 29) Tetrahydrofuran            | 7.36  | 42   | 574      | 1.272     | ug/l # | 43     |
| 31) Cyclohexane                | 7.80  | 56   | 3632     | 1.031     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 13130    | 4.677     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 16332    | 6.348     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 56137    | 53.848    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 56137    | 91.315    | ug/l # | 6      |

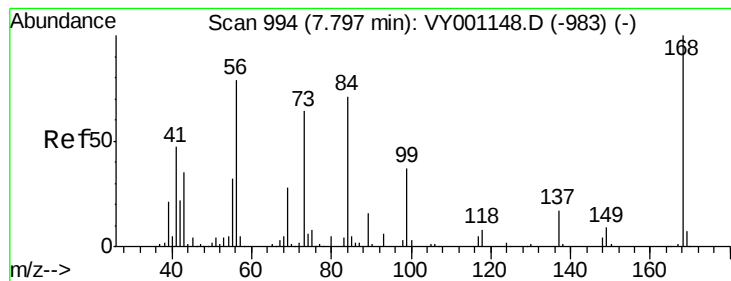
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\DATA\VY011520\  
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QLast Update : Fri Jan 10 16:01:58 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. 0.01 min

Lab File: VY001228.D

Acq: 15 Jan 2020 18:59

Instrument :

MSVOA\_Y

ClientSampleId :

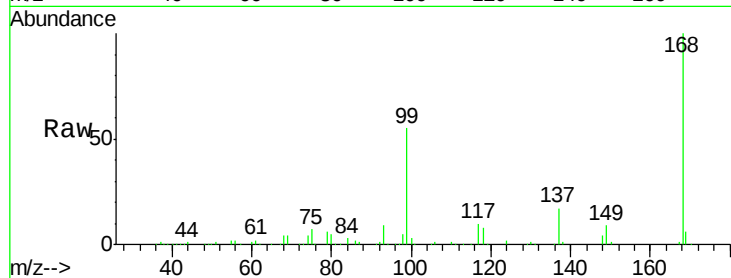
QVD-SB-01-1.5-2

Tgt Ion: 168 Resp: 172423

Ion Ratio Lower Upper

168 100

99 54.8 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VY001148.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY001148.D (-983) (-)

7.80

80000

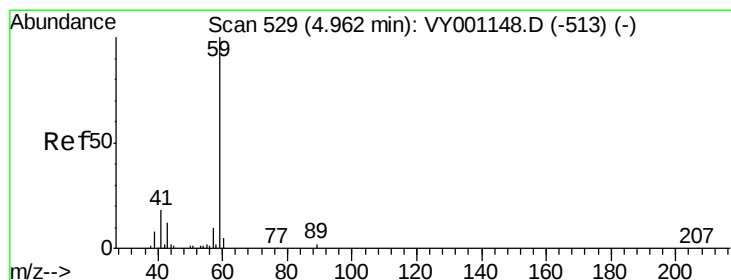
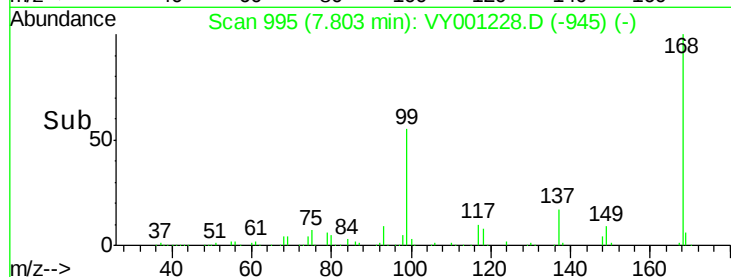
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.168 ug/l

RT: 4.95 min Scan# 527

Delta R.T. -0.01 min

Lab File: VY001228.D

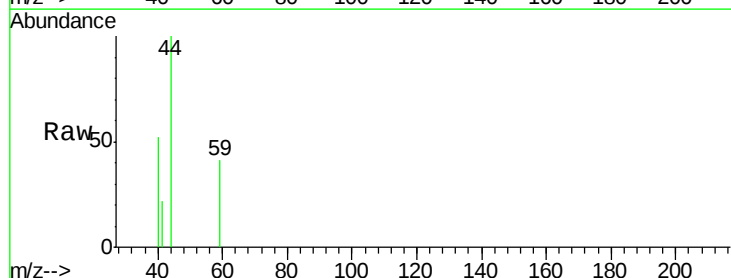
Acq: 15 Jan 2020 18:59

Tgt Ion: 59 Resp: 214

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VY001148.D (-513) (-)

Ion 57.00 (56.70 to 57.70): VY001148.D (-513) (-)

4.95

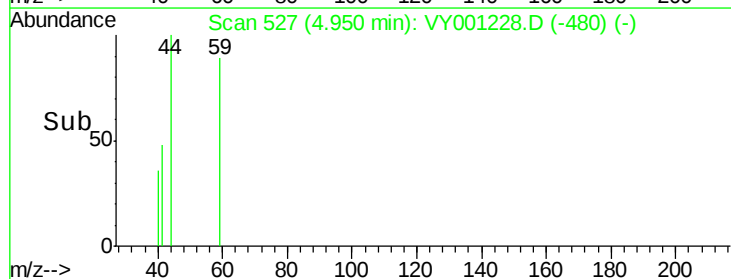
150

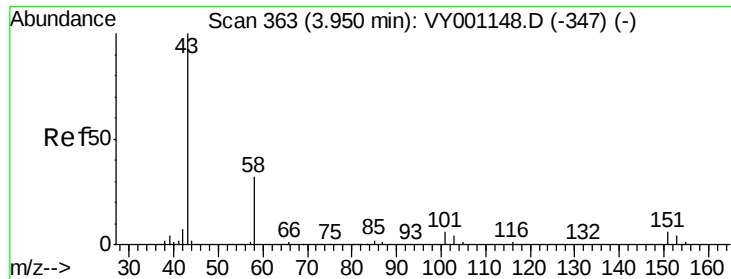
100

50

0

Time-->





#16

Acetone

Concen: 8.597 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY001228.D

Acq: 15 Jan 2020 18:59

Instrument :

MSVOA\_Y

ClientSampleId :

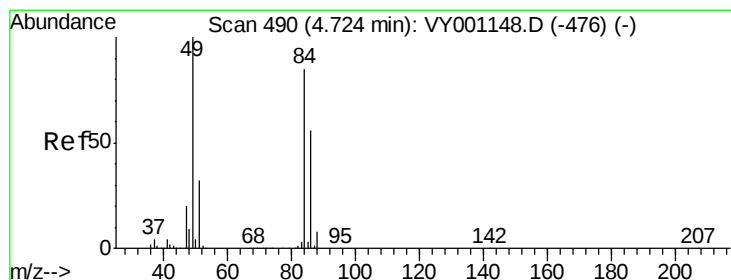
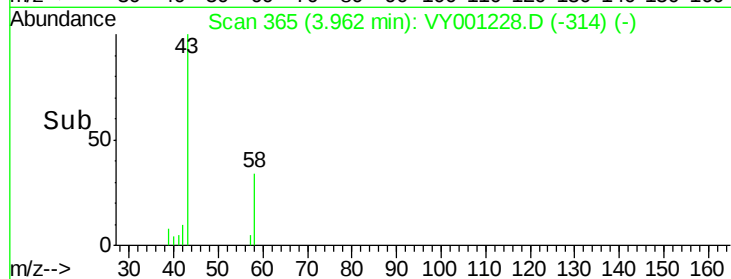
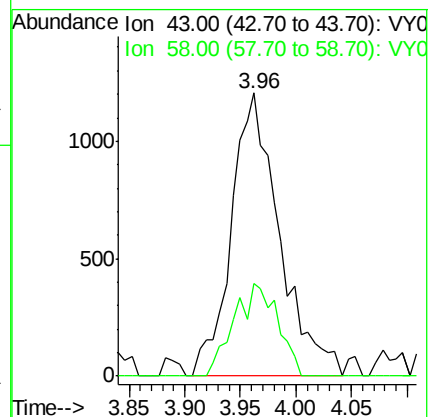
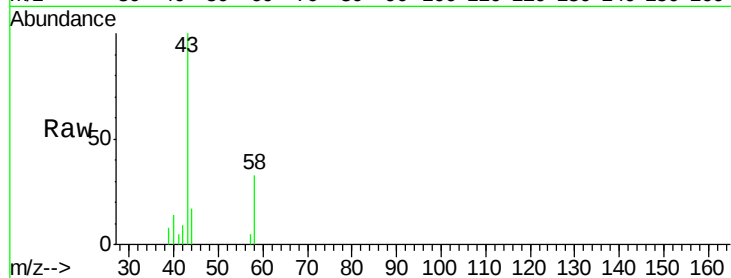
QVD-SB-01-1.5-2

Tgt Ion: 43 Resp: 3636

Ion Ratio Lower Upper

43 100

58 32.9 25.8 38.6



#20

Methylene Chloride

Concen: Below Cal

RT: 4.72 min Scan# 490

Delta R.T. 0.00 min

Lab File: VY001228.D

Acq: 15 Jan 2020 18:59

Tgt Ion: 84 Resp: 8388

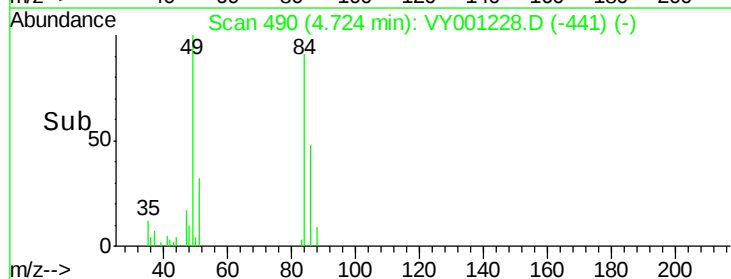
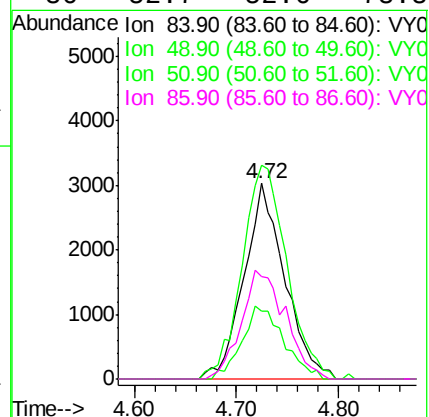
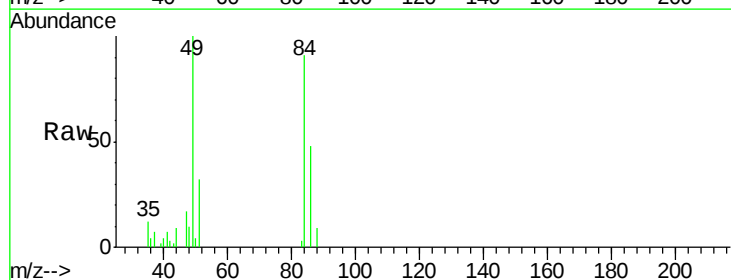
Ion Ratio Lower Upper

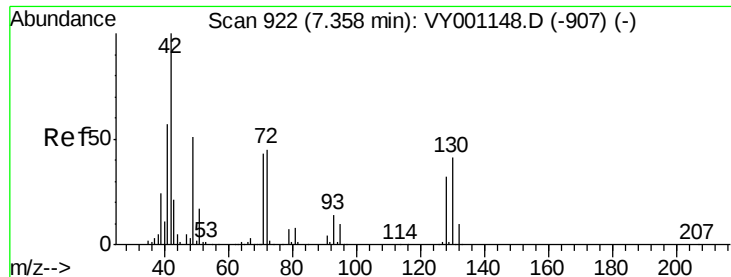
84 100

49 109.3 93.8 140.6

51 35.0 29.9 44.9

86 52.7 52.6 78.8





#29

Tetrahydrofuran

Concen: 1.272 ug/l

RT: 7.36 min Scan# 923

Delta R.T. 0.01 min

Lab File: VY001228.D

Acq: 15 Jan 2020 18:59

Instrument :

MSVOA\_Y

ClientSampleId :

QVD-SB-01-1.5-2

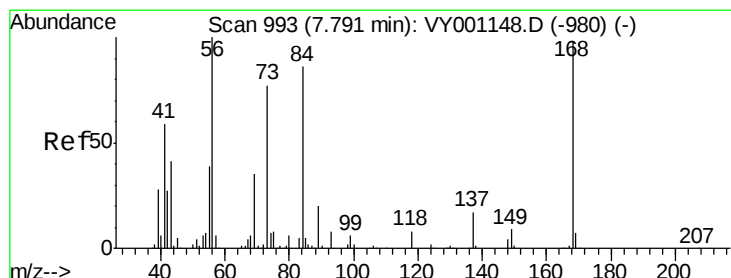
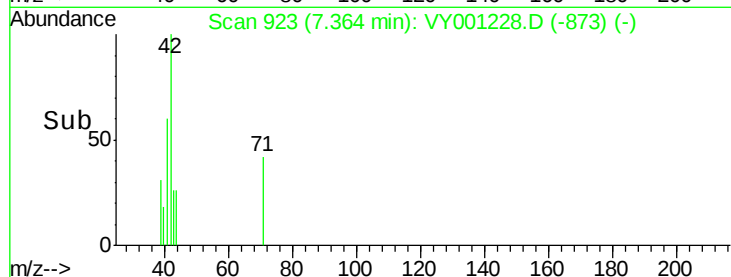
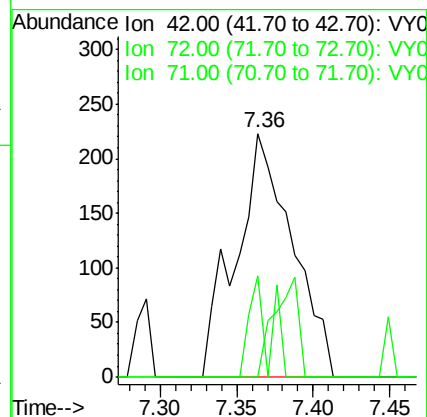
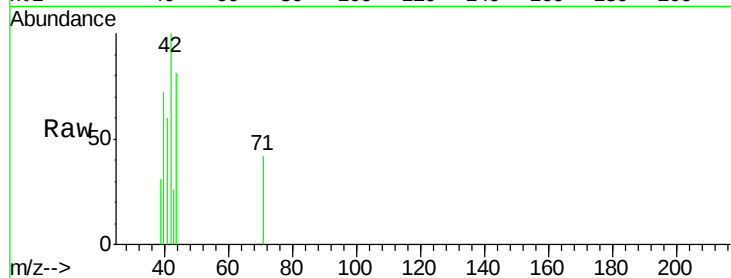
Tgt Ion: 42 Resp: 574

Ion Ratio Lower Upper

42 100

72 0.0 36.9 55.3#

71 15.0 34.0 51.0#



#31

Cyclohexane

Concen: 1.031 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY001228.D

Acq: 15 Jan 2020 18:59

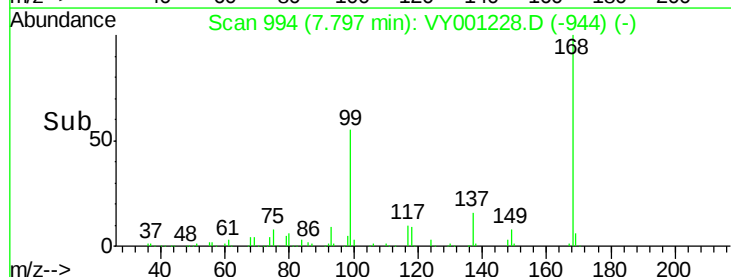
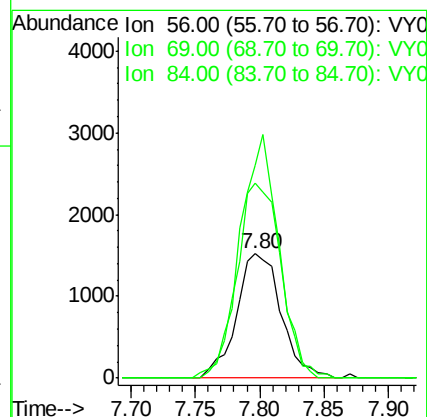
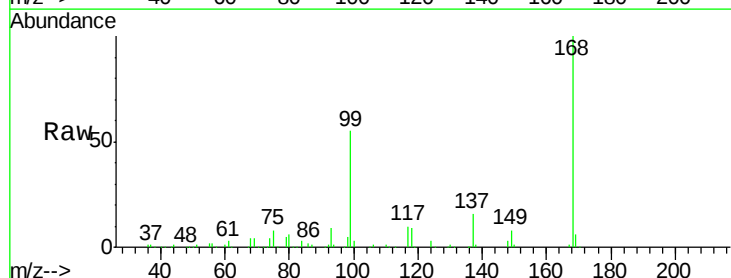
Tgt Ion: 56 Resp: 3632

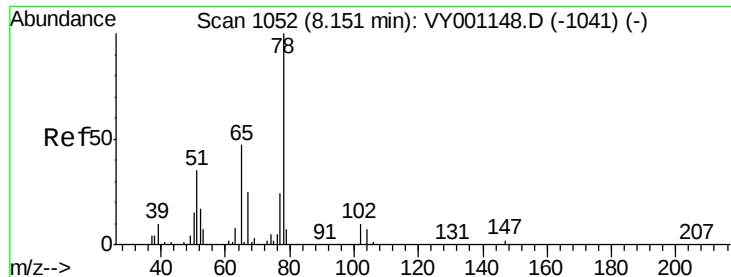
Ion Ratio Lower Upper

56 100

69 172.2 27.8 41.8#

84 157.0 68.9 103.3#





#33

1,2-Dichloroethane-d4

Concen: 51.700 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VY001228.D

Acq: 15 Jan 2020 18:59

Instrument :

MSVOA\_Y

ClientSampleId :

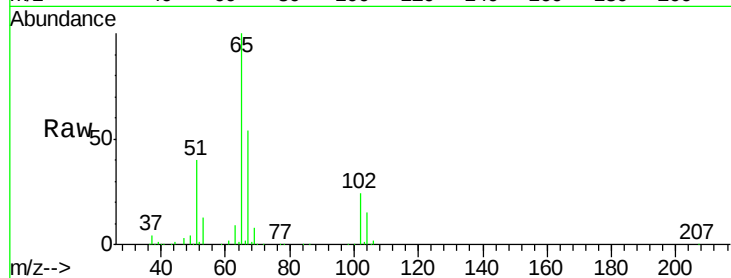
QVD-SB-01-1.5-2

Tgt Ion: 65 Resp: 94150

Ion Ratio Lower Upper

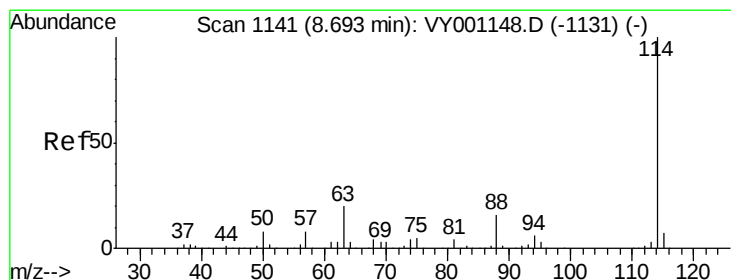
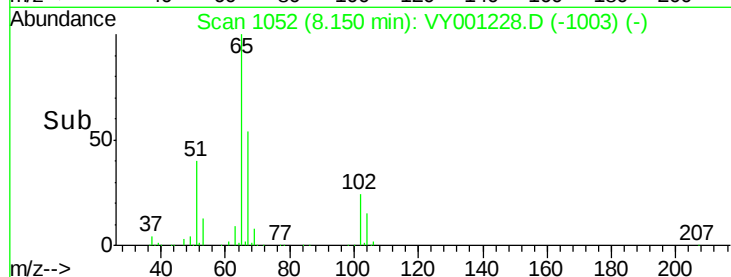
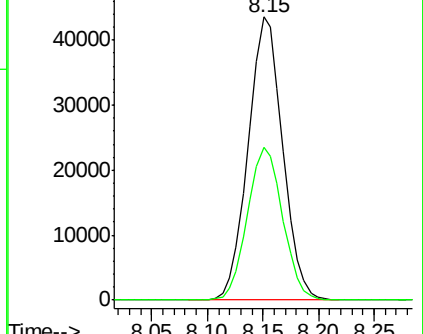
65 100

67 55.1 0.0 105.2



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: 8.70 min Scan# 1142

Delta R.T. 0.01 min

Lab File: VY001228.D

Acq: 15 Jan 2020 18:59

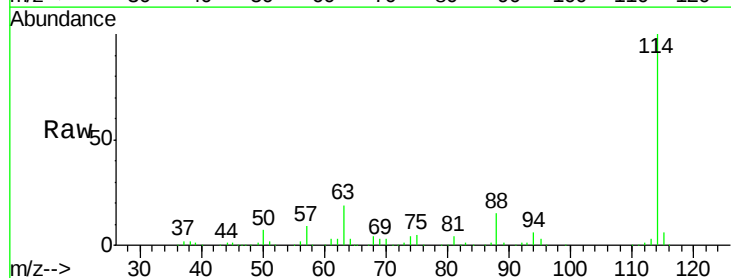
Tgt Ion: 114 Resp: 308005

Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.8

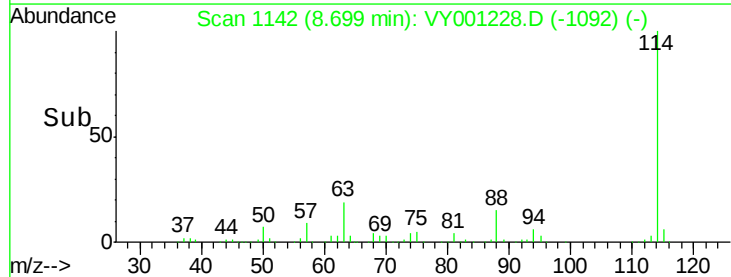
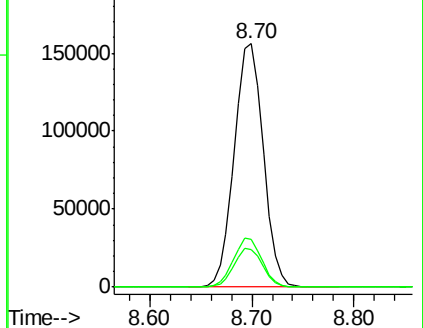
88 15.3 0.0 32.4

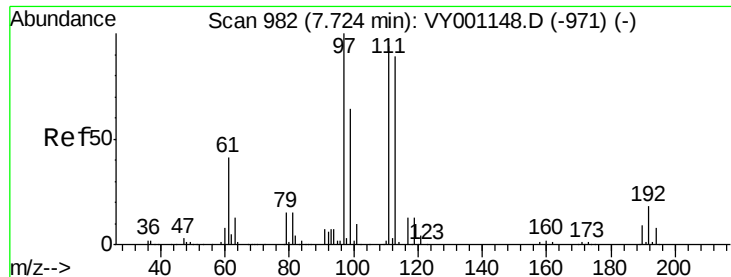


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

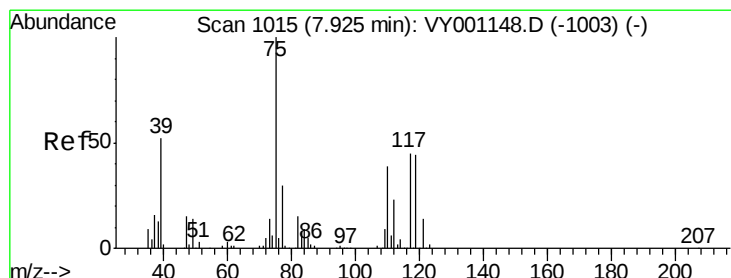
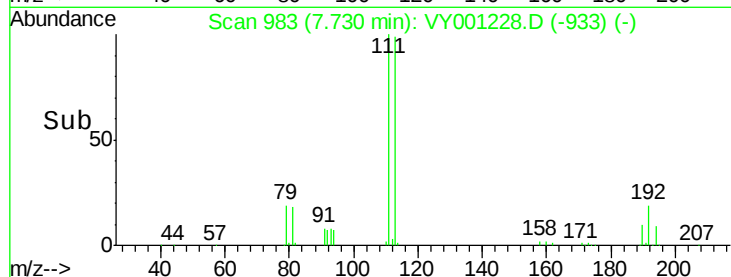
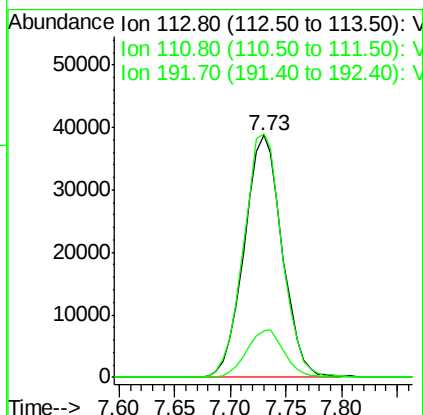
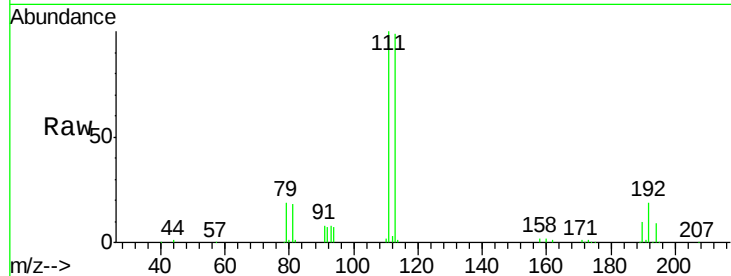




#35  
 Dibromofluoromethane  
 Concen: 50.746 ug/l  
 RT: 7.73 min Scan# 983  
 Delta R.T. 0.01 min  
 Lab File: VY001228.D  
 Acq: 15 Jan 2020 18:59

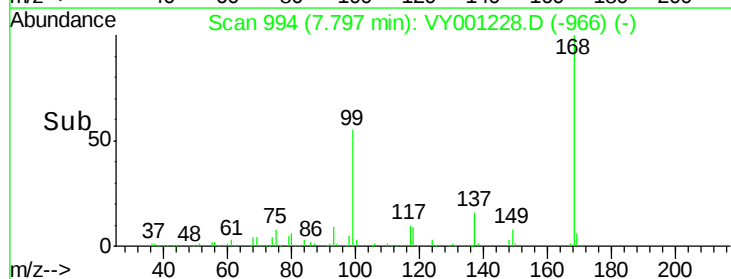
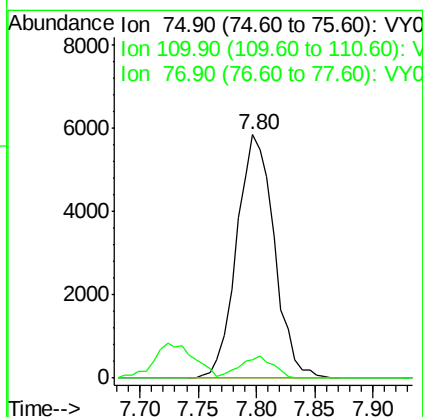
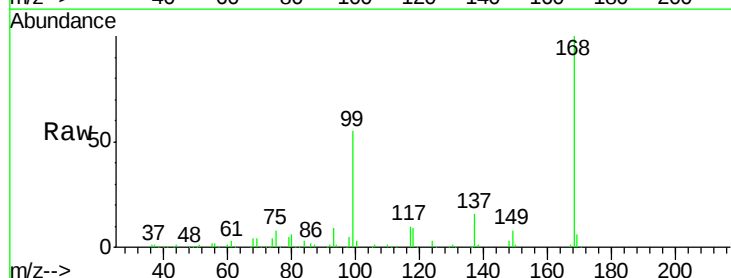
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 QVD-SB-01-1.5-2

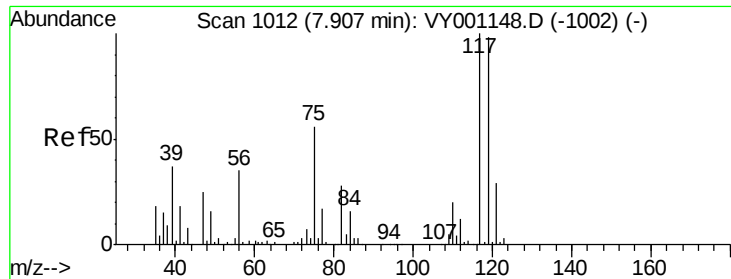
Tgt Ion:113 Resp: 91514  
 Ion Ratio Lower Upper  
 113 100  
 111 102.1 82.9 124.3  
 192 19.4 15.4 23.2



#36  
 1,1-Dichloropropene  
 Concen: 4.677 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY001228.D  
 Acq: 15 Jan 2020 18:59

Tgt Ion: 75 Resp: 13130  
 Ion Ratio Lower Upper  
 75 100  
 110 8.0 18.3 54.8#  
 77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.348 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.10 min

Lab File: VY001228.D

Acq: 15 Jan 2020 18:59

Instrument :

MSVOA\_Y

ClientSampleId :

QVD-SB-01-1.5-2

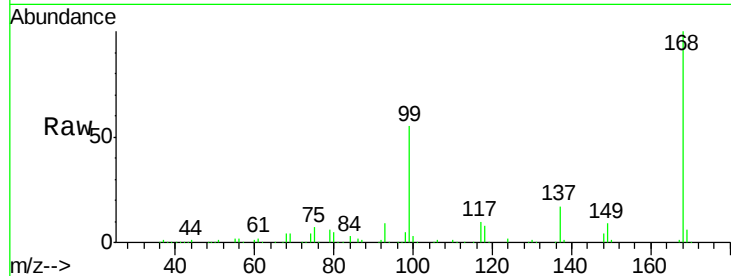
Tgt Ion:117 Resp: 16332

Ion Ratio Lower Upper

117 100

119 5.0 78.3 117.5#

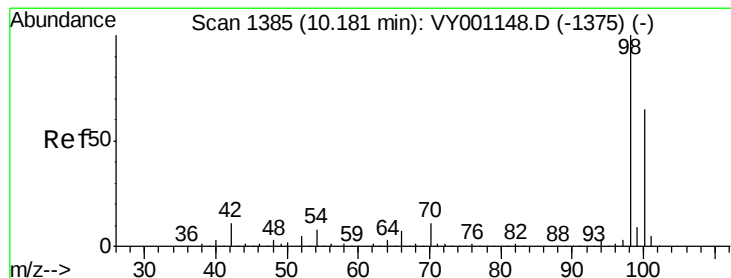
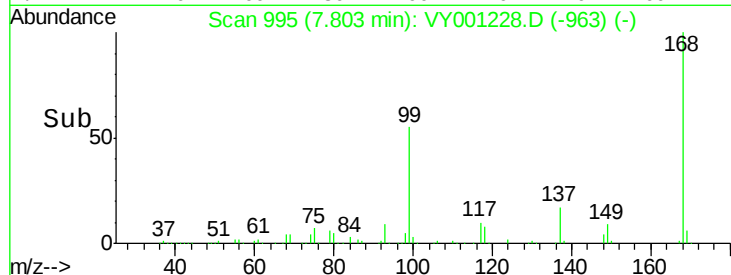
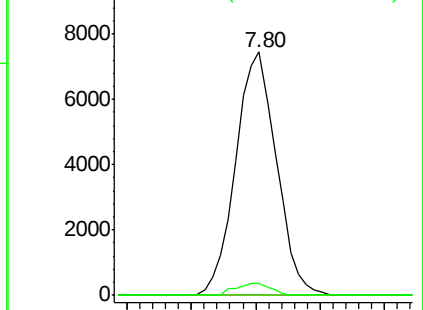
121 0.0 23.5 35.3#



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



#50

Toluene-d8

Concen: 51.277 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY001228.D

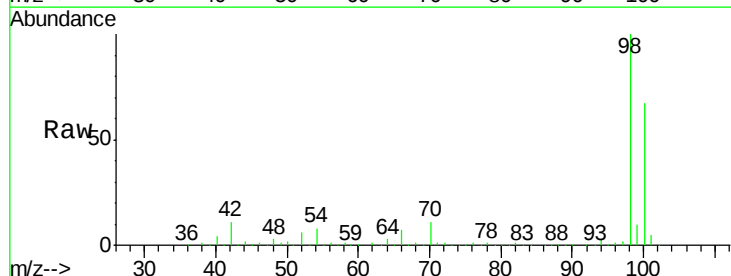
Acq: 15 Jan 2020 18:59

Tgt Ion: 98 Resp: 356303

Ion Ratio Lower Upper

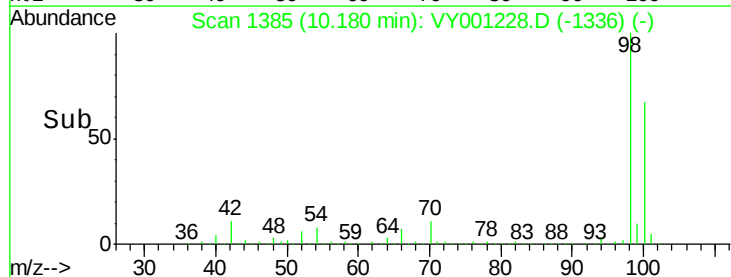
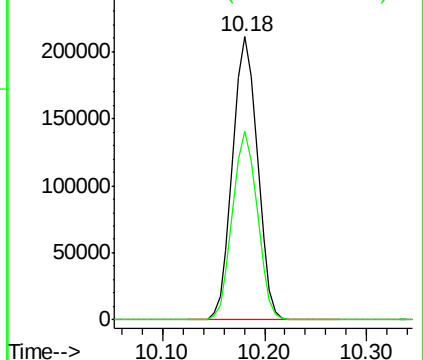
98 100

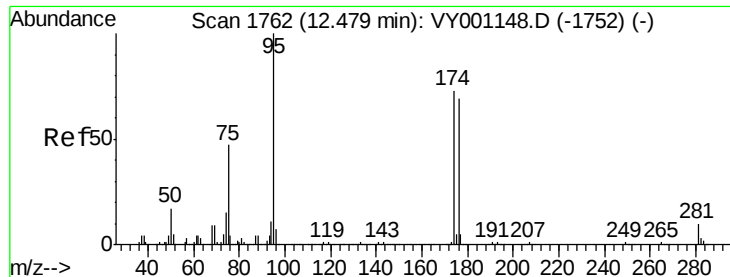
100 66.4 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

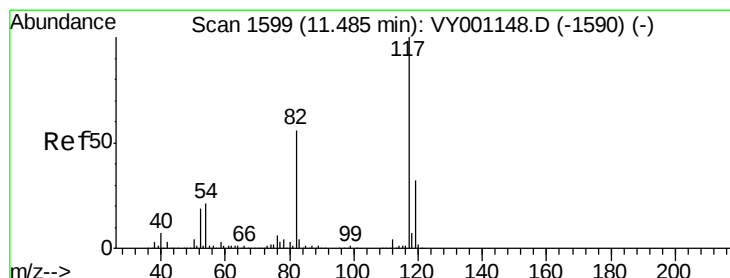
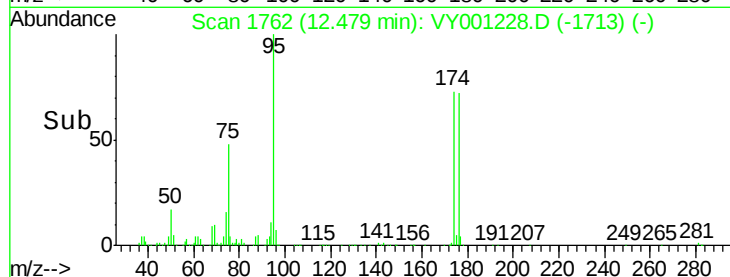
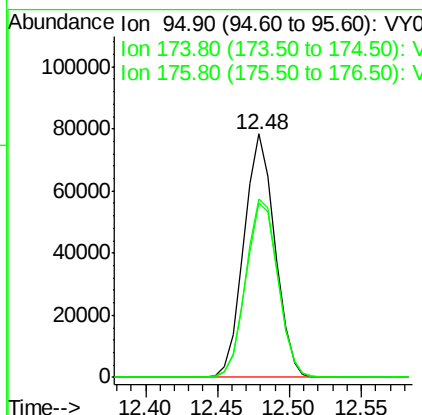
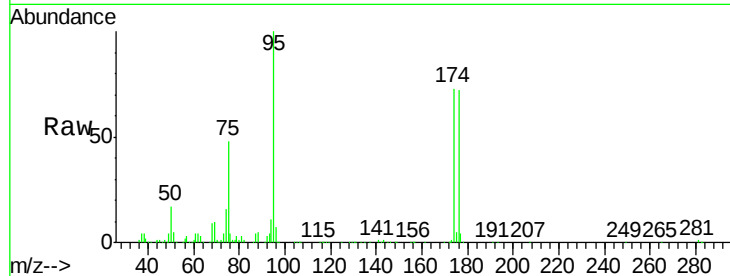




#62  
4-Bromofluorobenzene  
Concen: 40.922 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.00 min  
Lab File: VY001228.D  
Acq: 15 Jan 2020 18:59

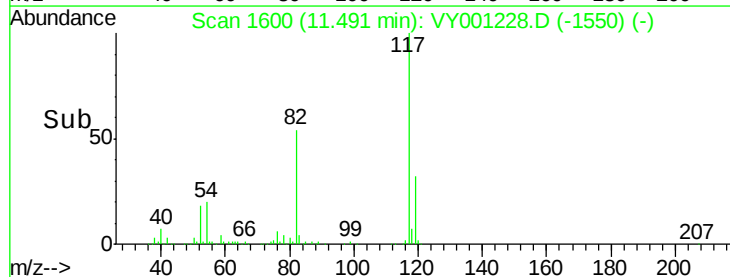
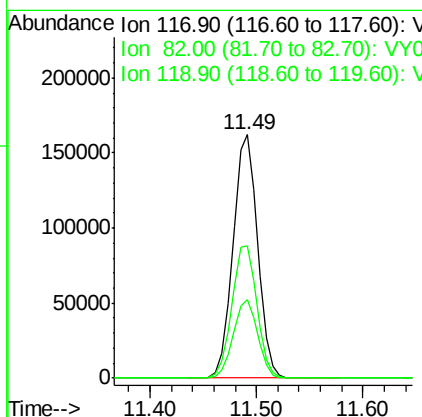
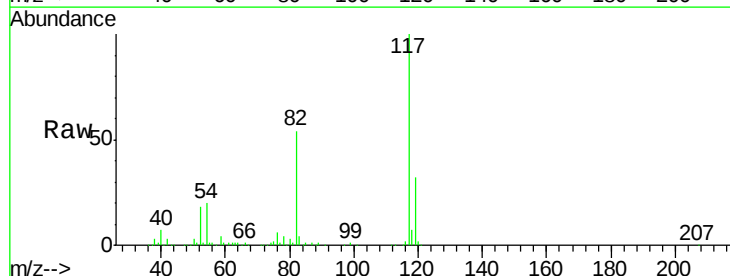
Instrument :  
MSVOA\_Y  
ClientSampleId :  
QVD-SB-01-1.5-2

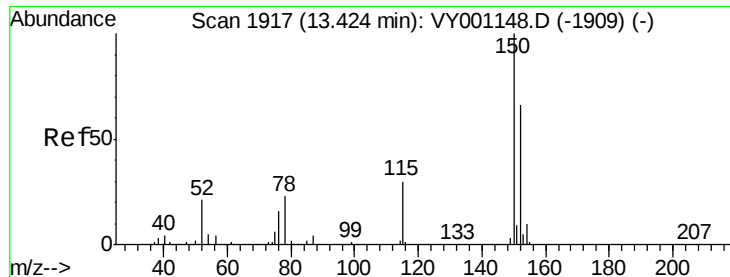
Tgt Ion: 95 Resp: 116251  
Ion Ratio Lower Upper  
95 100  
174 76.0 0.0 143.2  
176 74.8 0.0 136.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. 0.01 min  
Lab File: VY001228.D  
Acq: 15 Jan 2020 18:59

Tgt Ion: 117 Resp: 261918  
Ion Ratio Lower Upper  
117 100  
82 54.3 44.9 67.3  
119 32.3 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. -0.00 min

Lab File: VY001228.D

Acq: 15 Jan 2020 18:59

Instrument :

MSVOA\_Y

ClientSampleId :

QVD-SB-01-1.5-2

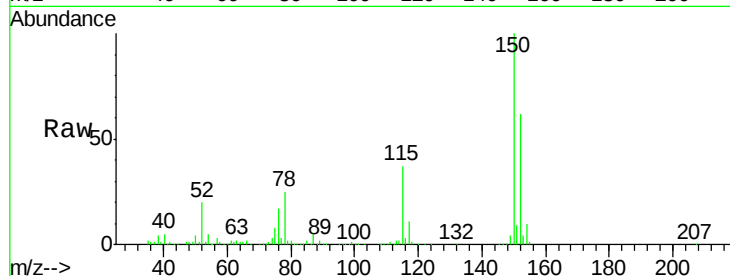
Tgt Ion:152 Resp: 97384

Ion Ratio Lower Upper

152 100

115 59.7 30.9 92.5

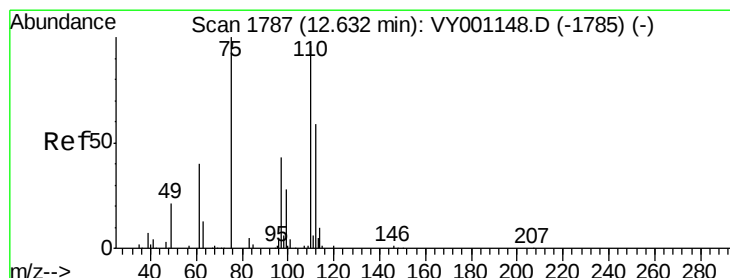
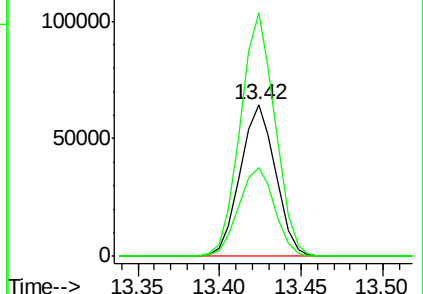
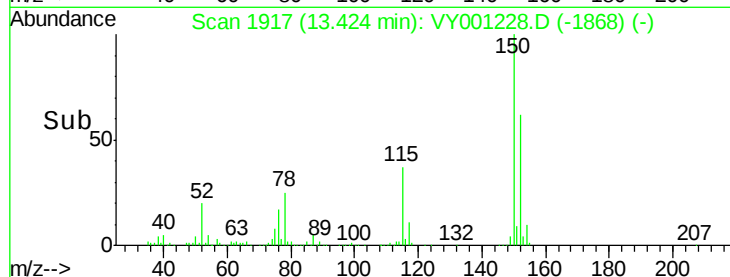
150 157.5 0.0 346.8



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: 53.848 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY001228.D

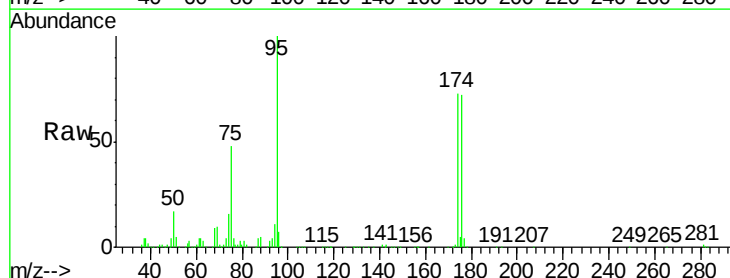
Acq: 15 Jan 2020 18:59

Tgt Ion: 75 Resp: 56137

Ion Ratio Lower Upper

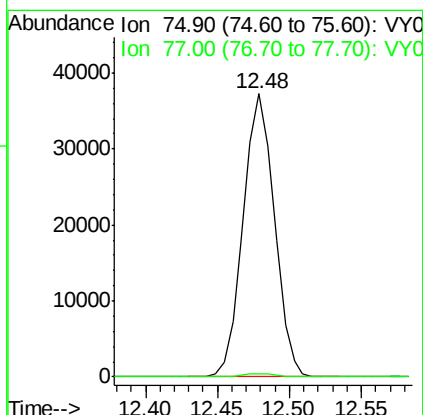
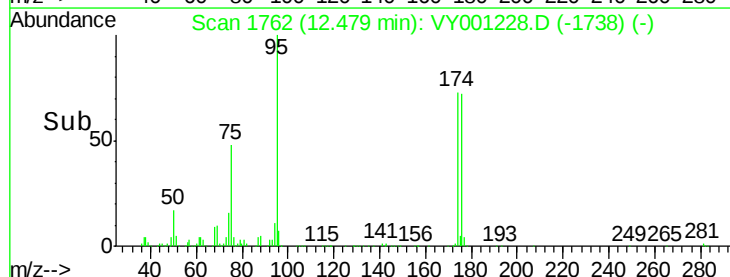
75 100

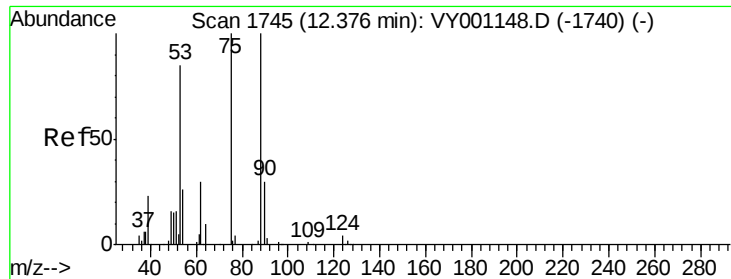
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 91.315 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY001228.D

Acq: 15 Jan 2020 18:59

Instrument :

MSVOA\_Y

ClientSampleId :

QVD-SB-01-1.5-2

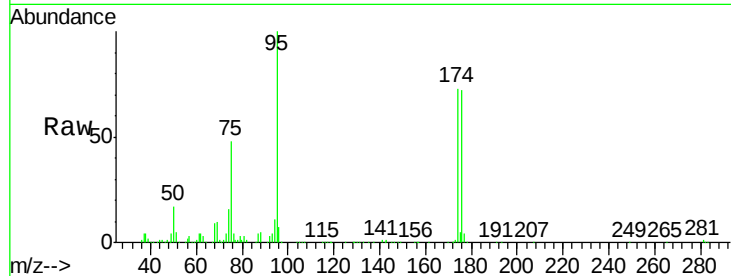
Tgt Ion: 75 Resp: 56137

Ion Ratio Lower Upper

75 100

53 0.0 69.4 104.2#

89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

