

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050420\  
 Data File : VY002561.D  
 Acq On : 05 May 2020 00:06  
 Operator : SY/MD  
 Sample : L2463-02  
 Misc : 7.40G/5ML/MSVOA Y/SOIL  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 AOC14-CARWASH

Quant Time: May 05 07:17:36 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 348872   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 570528   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 514485   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 255969   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.17  | 65   | 176569   | 60.19 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 120.38% |          |
| 35) Dibromofluoromethane    | 7.75  | 113  | 173853   | 53.28 | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 106.56% |          |
| 50) Toluene-d8              | 10.19 | 98   | 659482   | 51.76 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.52% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 224214   | 51.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.72% |          |

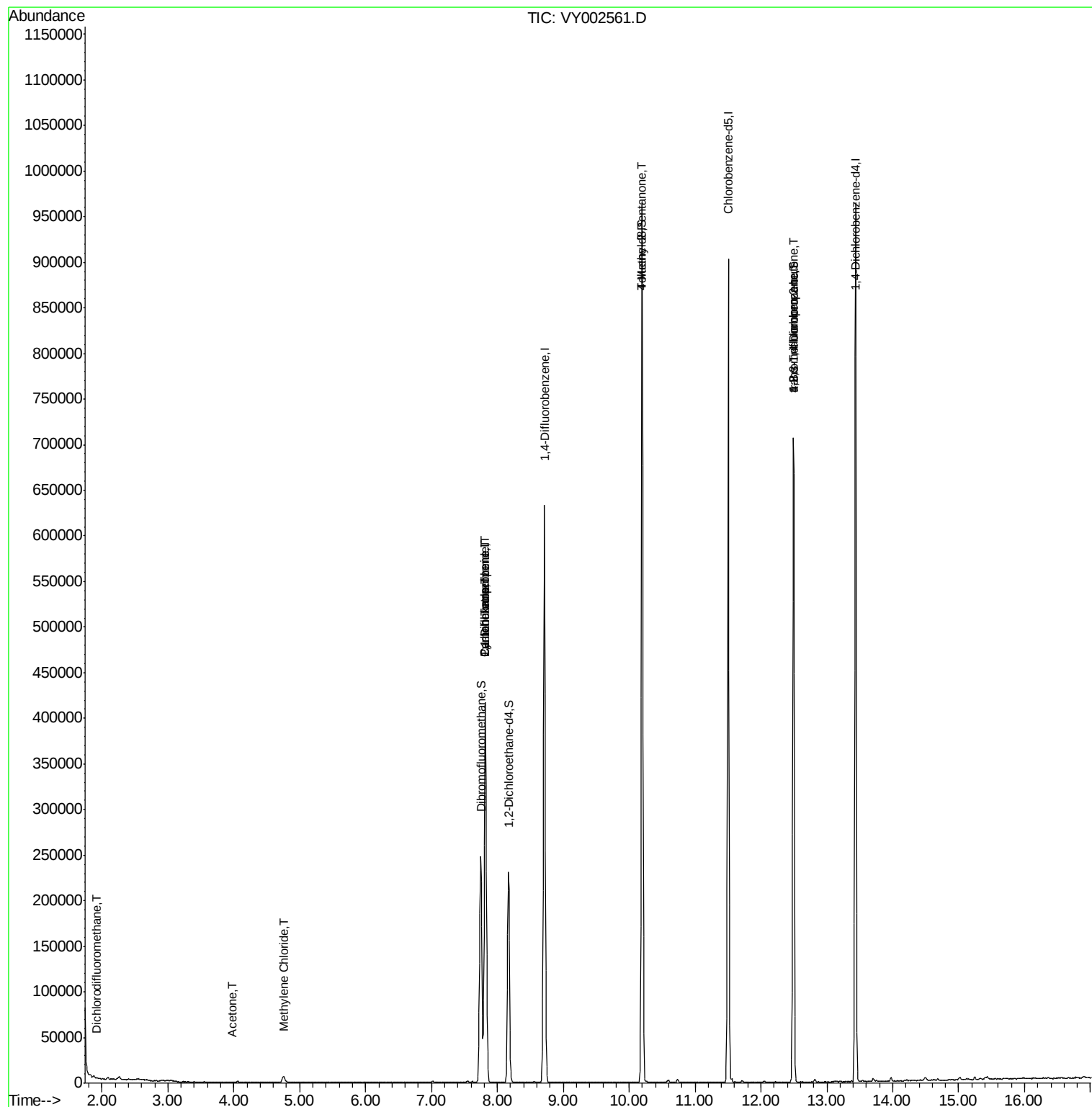
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.91  | 85   | 53       | 1.802  | ug/l # | 43     |
| 16) Acetone                    | 3.98  | 43   | 889      | 1.468  | ug/l # | 75     |
| 20) Methylene Chloride         | 4.76  | 84   | 5246     | 1.550  | ug/l   | 96     |
| 31) Cyclohexane                | 7.81  | 56   | 5479     | 1.039  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.82  | 75   | 21741    | 4.546  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.82  | 117  | 31515    | 6.035  | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.20 | 43   | 2496     | 1.051  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 107634   | 47.318 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 107634   | 94.881 | ug/l # | 15     |

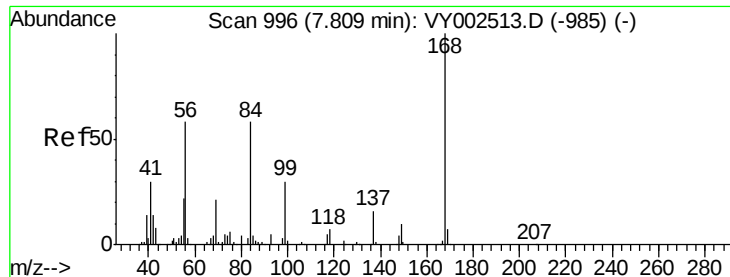
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon May 04 12:22:08 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY002561.D

Acq: 05 May 2020 00:06

Instrument :

MSVOA\_Y

ClientSampleId :

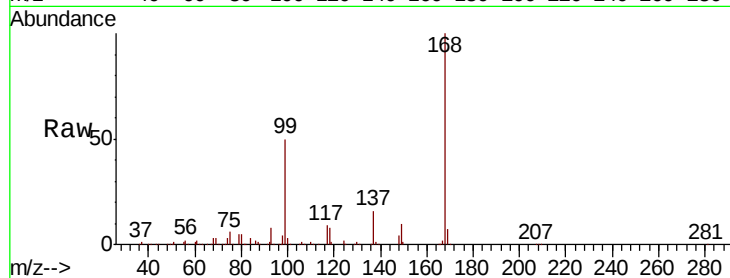
AOC14-CARWASH

Tot Ion:168 Resp: 348872

Ion Ratio Lower Upper

168 100

99 50.2 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002513.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002513.D (-985) (-)

7.82

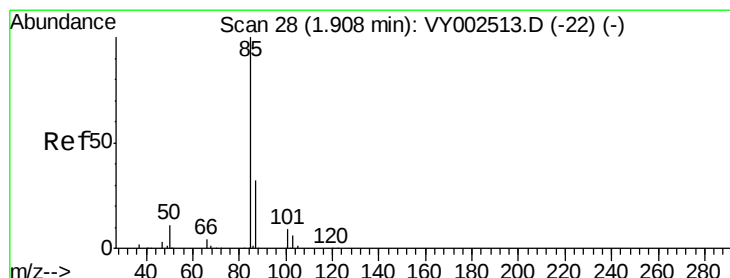
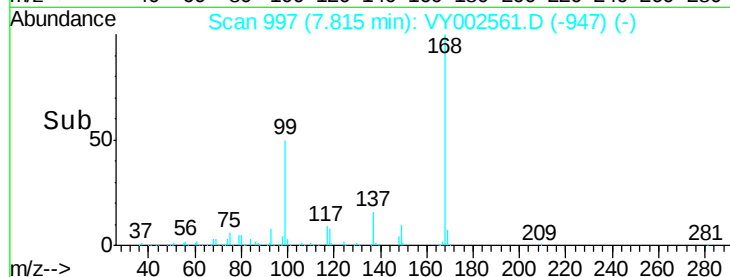
150000

100000

50000

0

Time--> 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 1.802 ug/l

RT: 1.91 min Scan# 29

Delta R.T. 0.01 min

Lab File: VY002561.D

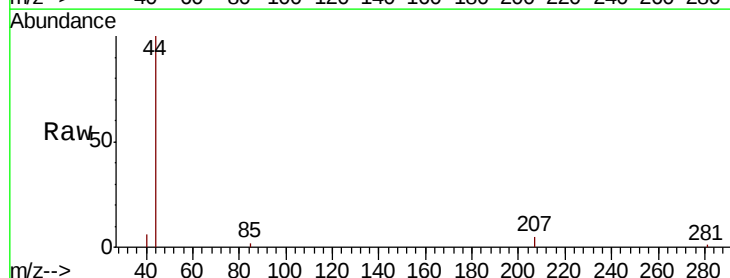
Acq: 05 May 2020 00:06

Tgt Ion: 85 Resp: 53

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VY002513.D (-22) (-)

Ion 86.90 (86.60 to 87.60): VY002513.D (-22) (-)

1.91

80

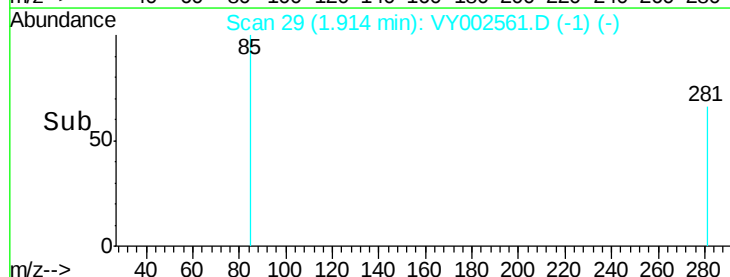
60

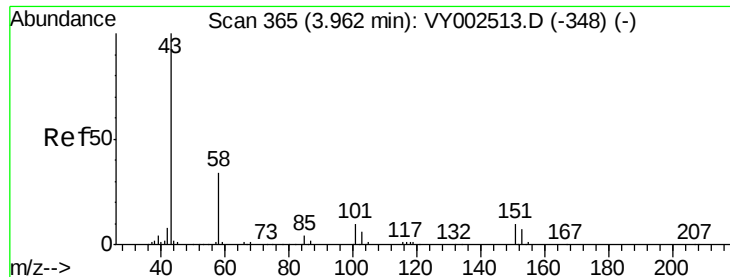
40

20

0

Time--> 1.90 1.92 1.94





#16

Acetone

Concen: 1.468 ug/l

RT: 3.98 min Scan# 368

Delta R.T. 0.02 min

Lab File: VY002561.D

Acq: 05 May 2020 00:06

Instrument :

MSVOA\_Y

ClientSampleId :

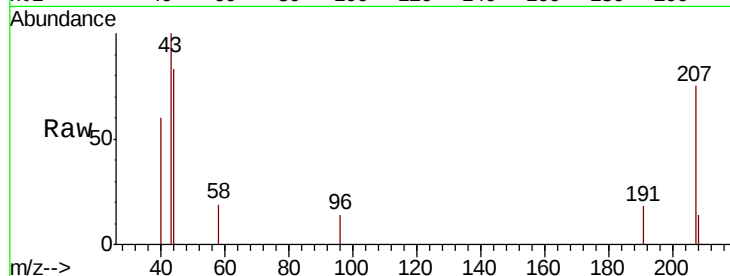
AOC14-CARWASH

Tot Ion: 43 Resp: 889

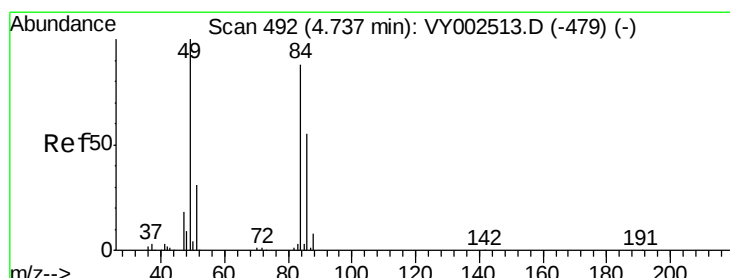
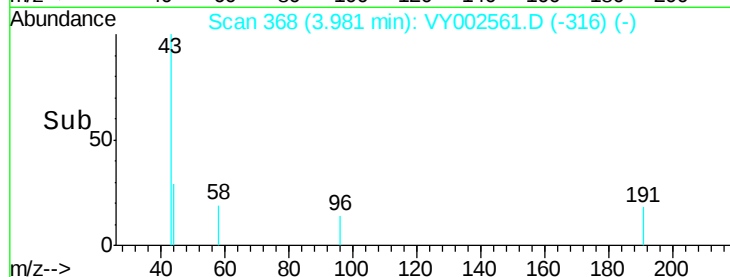
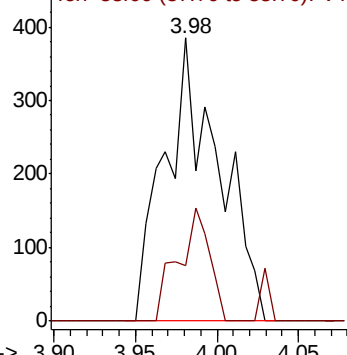
Ion Ratio Lower Upper

43 100

58 19.5 26.9 40.3#



Abundance Ion 43.00 (42.70 to 43.70): VY002561.D (-316) (-)



#20

Methylene Chloride

Concen: 1.550 ug/l

RT: 4.76 min Scan# 496

Delta R.T. 0.02 min

Lab File: VY002561.D

Acq: 05 May 2020 00:06

Tgt Ion: 84 Resp: 5246

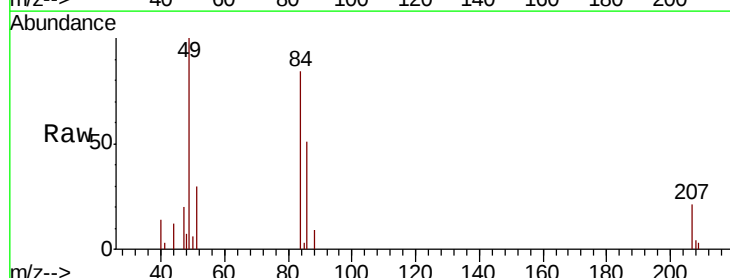
Ion Ratio Lower Upper

84 100

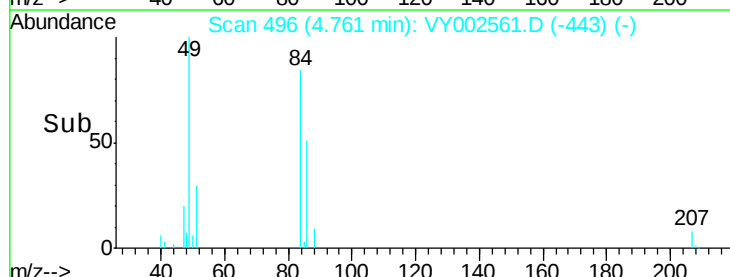
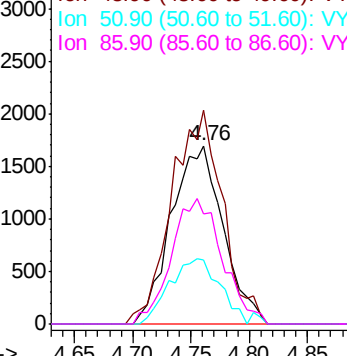
49 119.7 90.5 135.7

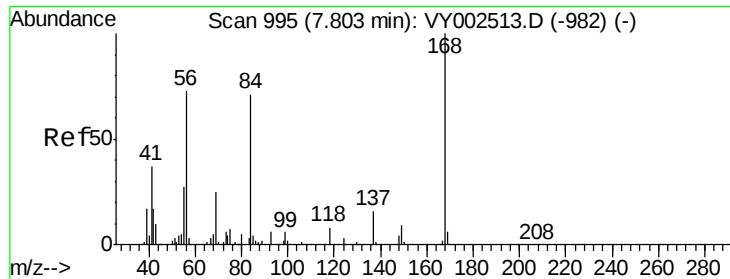
51 35.9 28.3 42.5

86 61.6 49.9 74.9



Abundance Ion 83.90 (83.60 to 84.60): VY002561.D (-443) (-)





#31

Cyclohexane

Concen: 1.039 ug/l

RT: 7.81 min Scan# 996

Delta R.T. 0.01 min

Lab File: VY002561.D

Acq: 05 May 2020 00:06

Instrument :

MSVOA\_Y

ClientSampleId :

AOC14-CARWASH

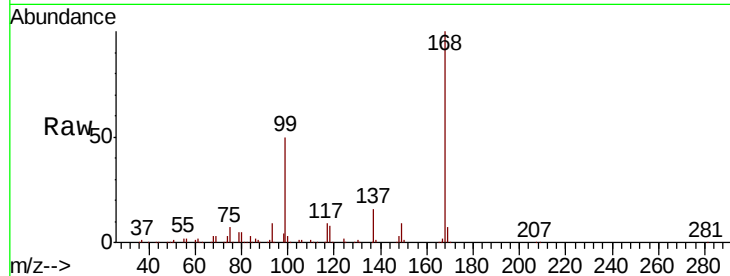
Tot Ion: 56 Resp: 5479

Ion Ratio Lower Upper

56 100

69 168.9 27.6 41.4#

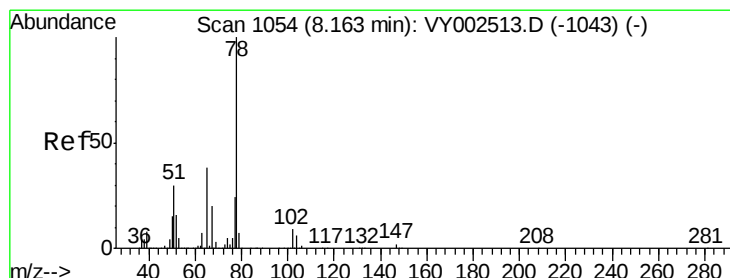
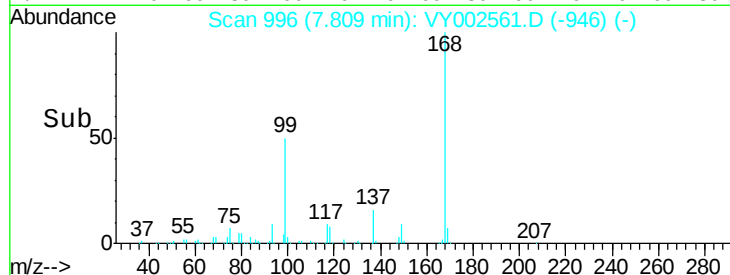
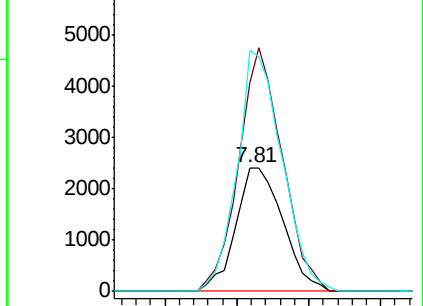
84 194.4 77.7 116.5#



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 60.193 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. 0.01 min

Lab File: VY002561.D

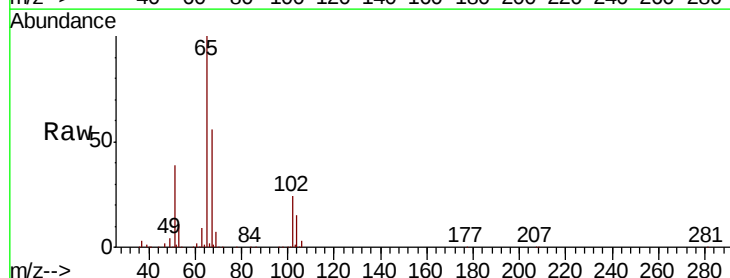
Acq: 05 May 2020 00:06

Tgt Ion: 65 Resp: 176569

Ion Ratio Lower Upper

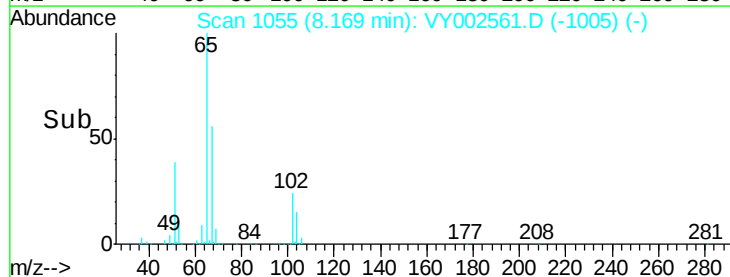
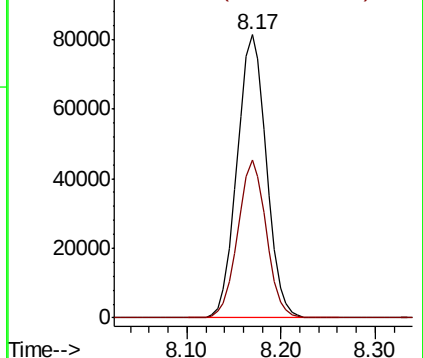
65 100

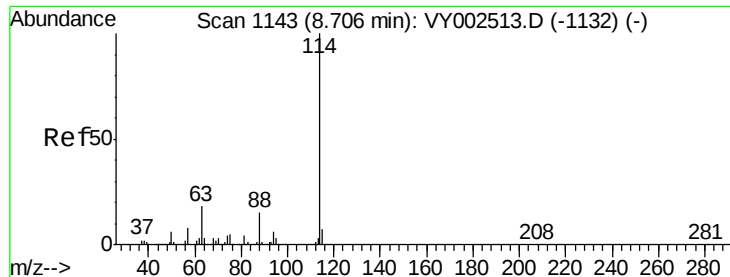
67 54.3 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

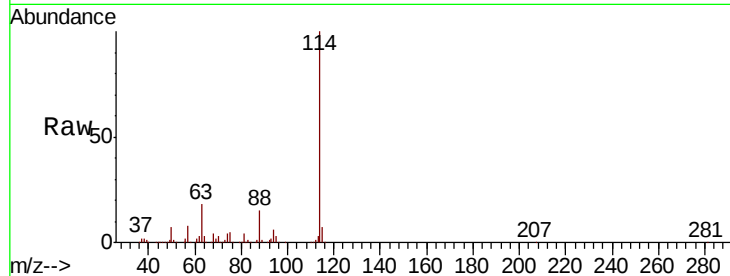




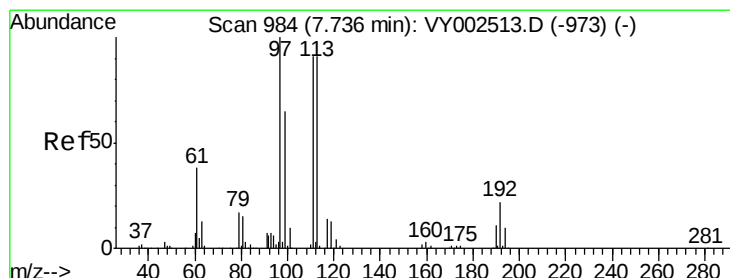
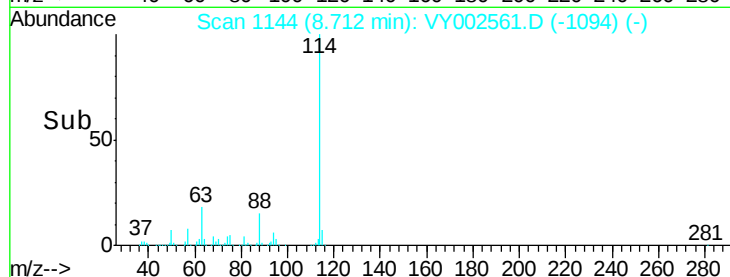
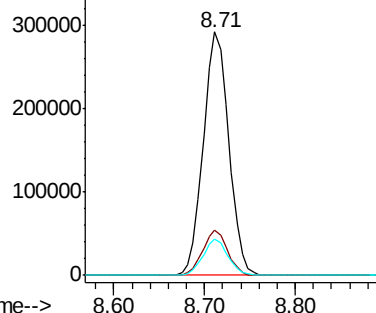
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1144  
 Delta R.T. 0.01 min  
 Lab File: VY002561.D  
 Acq: 05 May 2020 00:06

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 AOC14-CARWASH

|             |       |          |
|-------------|-------|----------|
| Tot Ion:114 | Resp: | 570528   |
| Ion Ratio   | Lower | Upper    |
| 114         | 100   |          |
| 63          | 18.3  | 0.0 36.4 |
| 88          | 15.0  | 0.0 29.6 |

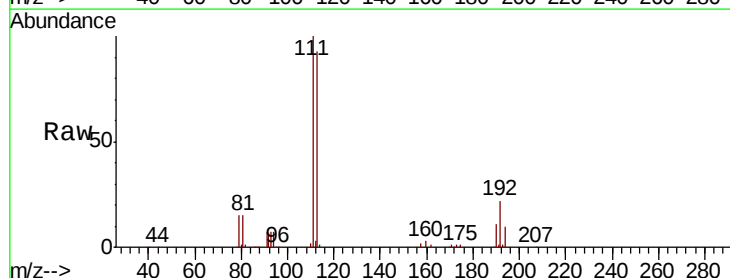


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VY0  
 Ion 87.90 (87.60 to 88.60): VY0

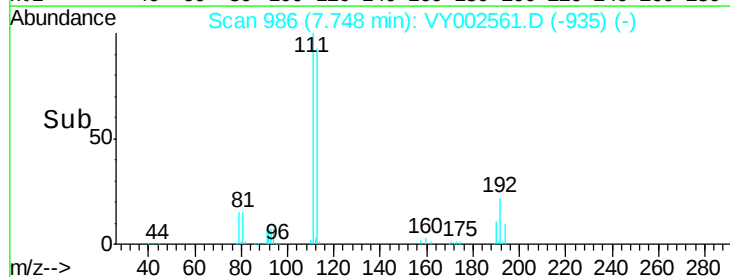
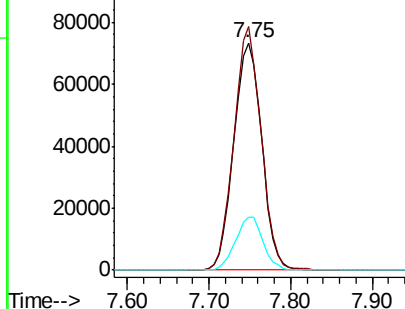


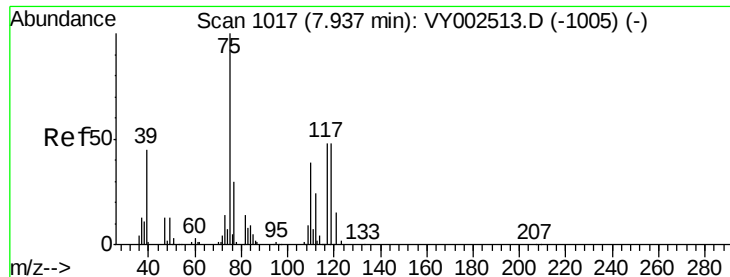
#35  
 Dibromofluoromethane  
 Concen: 53.282 ug/l  
 RT: 7.75 min Scan# 986  
 Delta R.T. 0.01 min  
 Lab File: VY002561.D  
 Acq: 05 May 2020 00:06

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:113 | Resp: | 173853     |
| Ion Ratio   | Lower | Upper      |
| 113         | 100   |            |
| 111         | 103.9 | 81.8 122.6 |
| 192         | 23.0  | 18.2 27.4  |



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

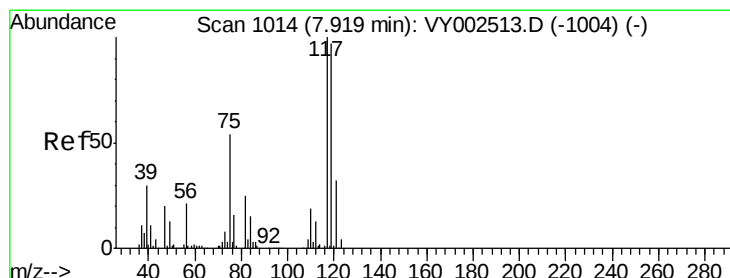
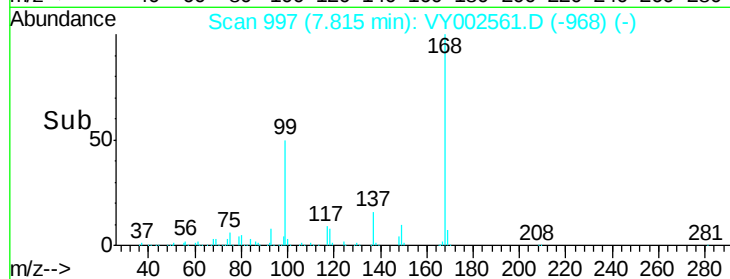
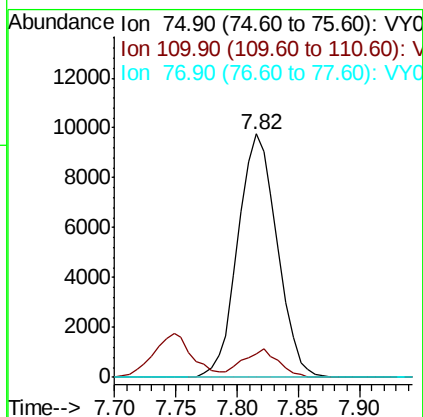
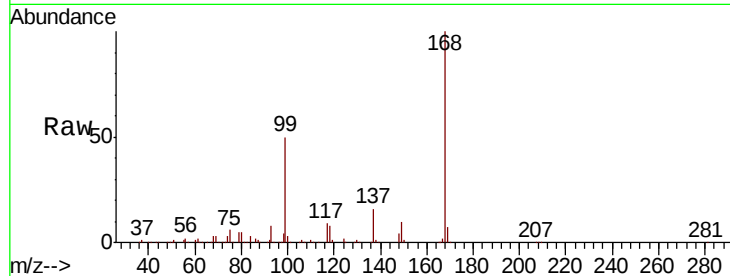




#36  
 1,1-Dichloropropene  
 Concen: 4.546 ug/l  
 RT: 7.82 min Scan# 997  
 Delta R.T. -0.12 min  
 Lab File: VY002561.D  
 Acq: 05 May 2020 00:06

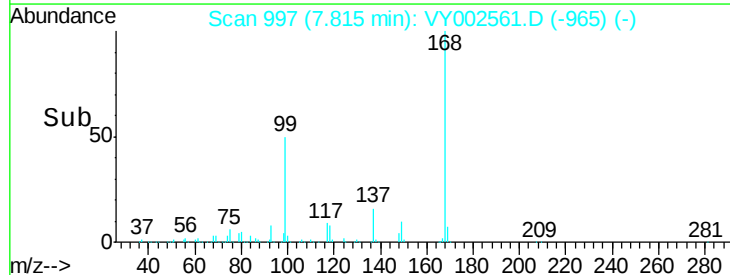
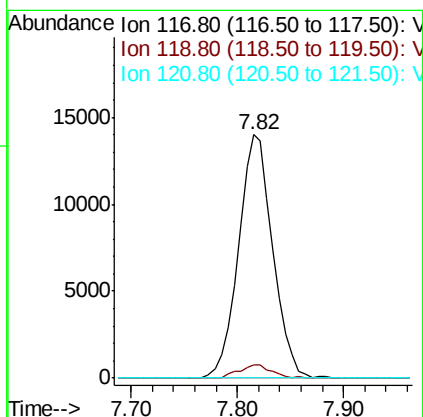
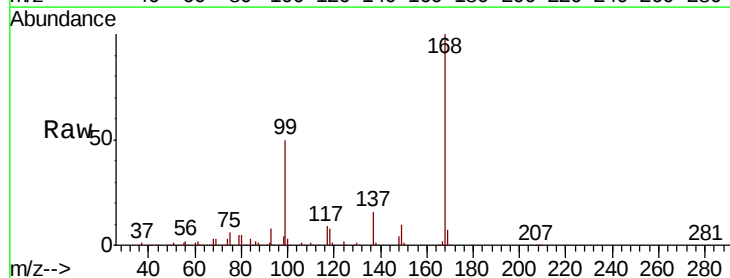
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 AOC14-CARWASH

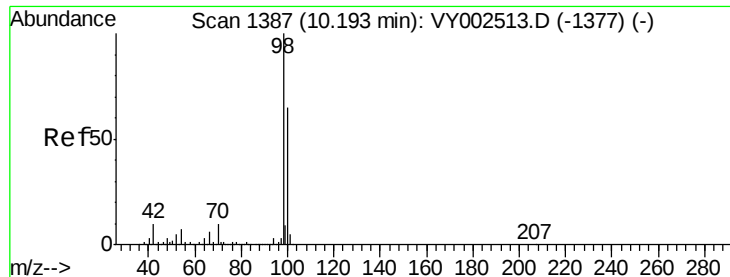
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.8  | 19.1  | 57.3# |
| 77      | 0.0   | 24.6  | 37.0# |



#38  
 Carbon Tetrachloride  
 Concen: 6.035 ug/l  
 RT: 7.82 min Scan# 997  
 Delta R.T. -0.10 min  
 Lab File: VY002561.D  
 Acq: 05 May 2020 00:06

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.6   | 77.1  | 115.7# |
| 121     | 0.0   | 25.2  | 37.8#  |





#50

Toluene-d8

Concen: 51.757 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. -0.00 min

Lab File: VY002561.D

Acq: 05 May 2020 00:06

Instrument :

MSVOA\_Y

ClientSampleId :

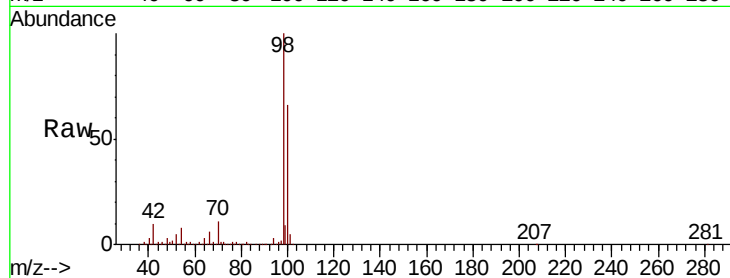
AOC14-CARWASH

Tot Ion: 98 Resp: 659482

Ion Ratio Lower Upper

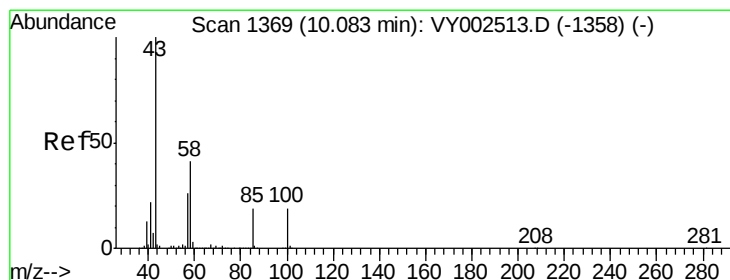
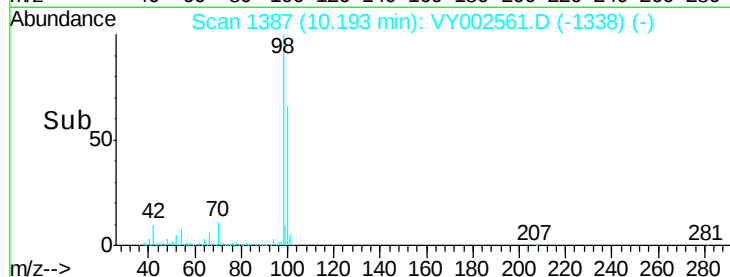
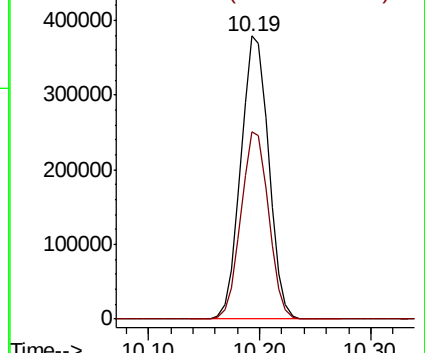
98 100

100 65.8 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY



#51

4-Methyl-2-Pentanone

Concen: 1.051 ug/l

RT: 10.20 min Scan# 1388

Delta R.T. 0.12 min

Lab File: VY002561.D

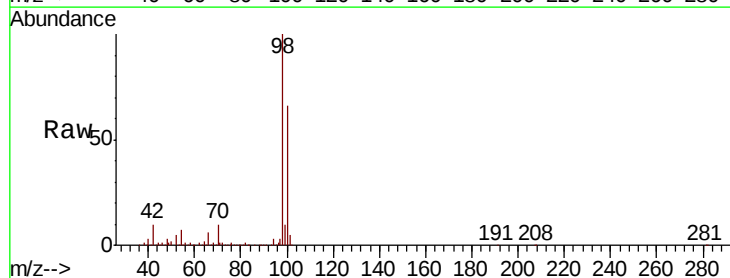
Acq: 05 May 2020 00:06

Tgt Ion: 43 Resp: 2496

Ion Ratio Lower Upper

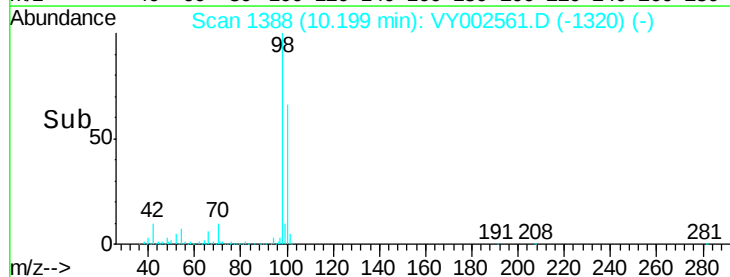
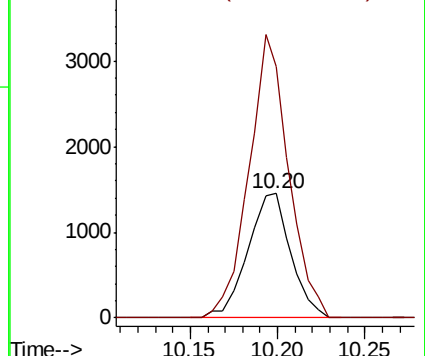
43 100

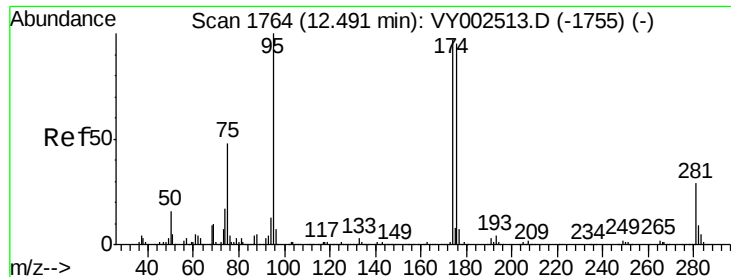
58 209.4 33.2 49.8#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#62

4-Bromofluorobenzene

Concen: 51.857 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VY002561.D

Acq: 05 May 2020 00:06

Instrument :

MSVOA\_Y

ClientSampleId :

AOC14-CARWASH

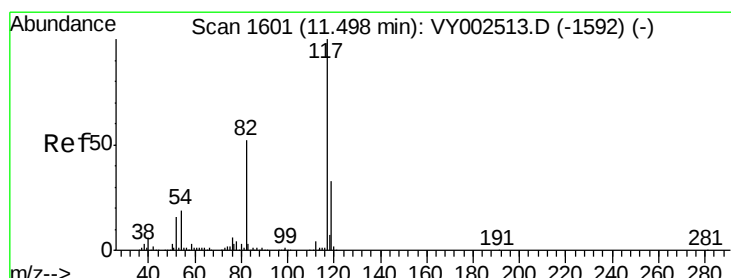
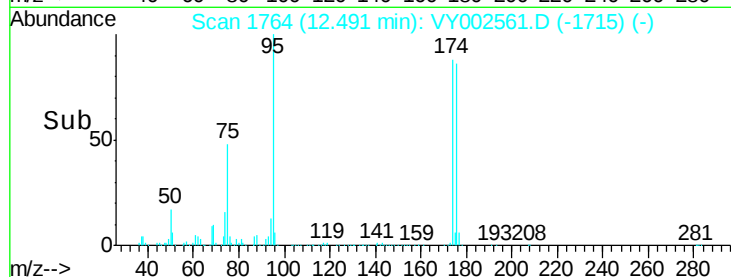
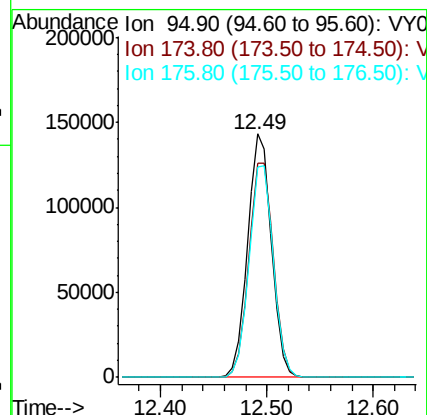
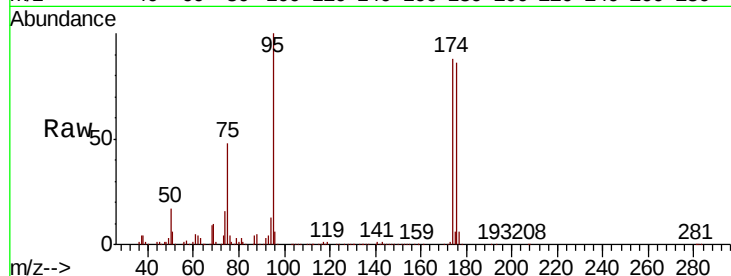
Tot Ion: 95 Resp: 224214

Ion Ratio Lower Upper

95 100

174 91.2 0.0 188.8

176 88.9 0.0 183.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.50 min Scan# 1602

Delta R.T. 0.01 min

Lab File: VY002561.D

Acq: 05 May 2020 00:06

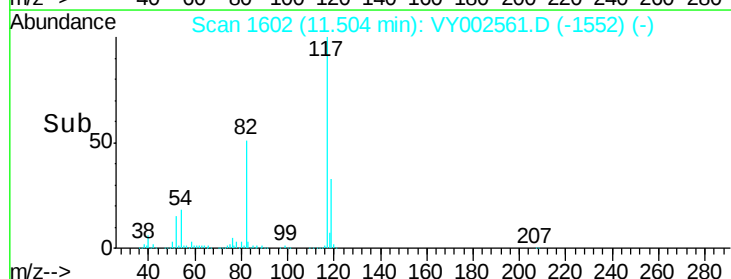
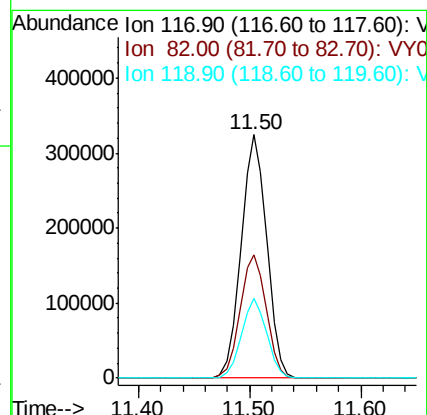
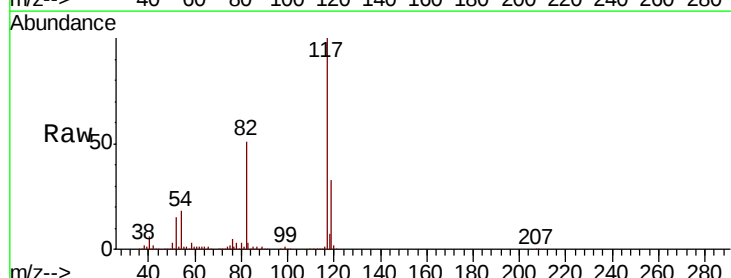
Tgt Ion: 117 Resp: 514485

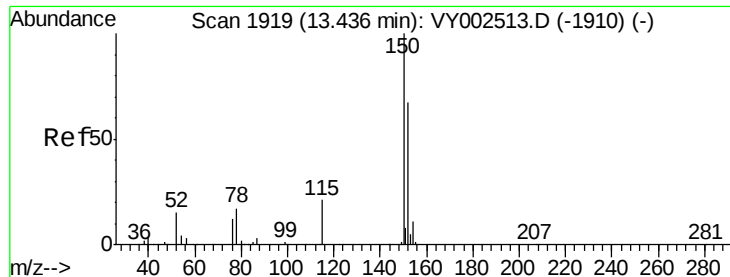
Ion Ratio Lower Upper

117 100

82 50.5 41.3 61.9

119 32.7 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VY002561.D

Acq: 05 May 2020 00:06

Instrument :

MSVOA\_Y

ClientSampleId :

AOC14-CARWASH

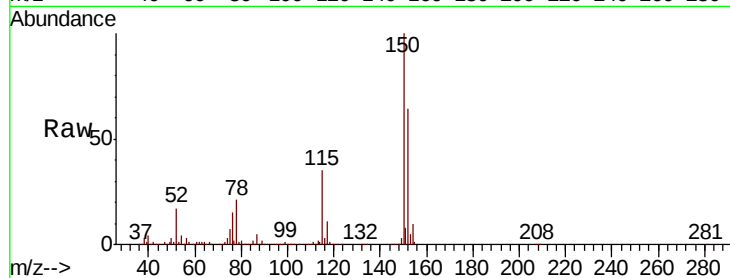
Tot Ion:152 Resp: 255969

Ion Ratio Lower Upper

152 100

115 54.6 27.5 82.4

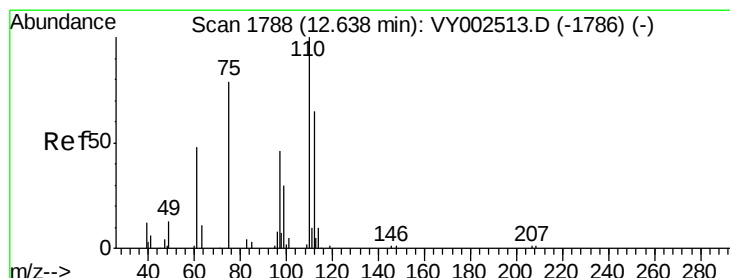
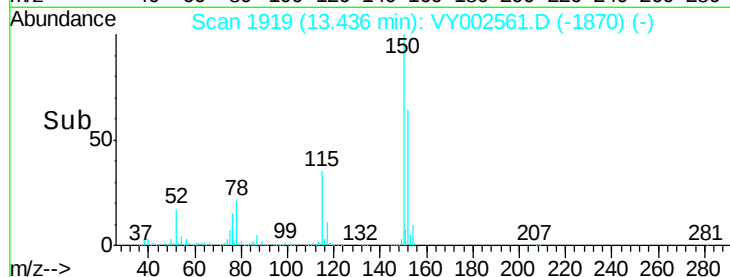
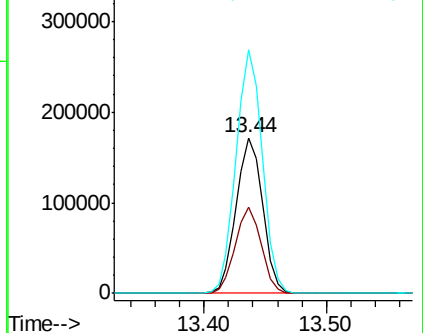
150 155.8 0.0 346.4



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: 47.318 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002561.D

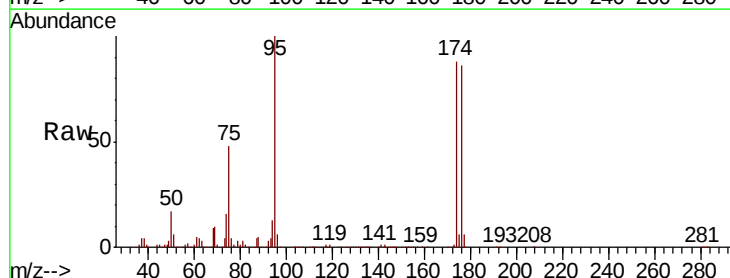
Acq: 05 May 2020 00:06

Tgt Ion: 75 Resp: 107634

Ion Ratio Lower Upper

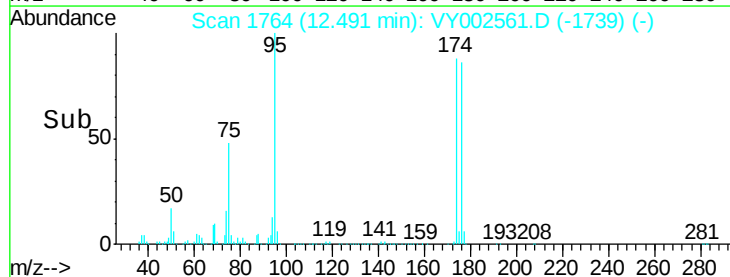
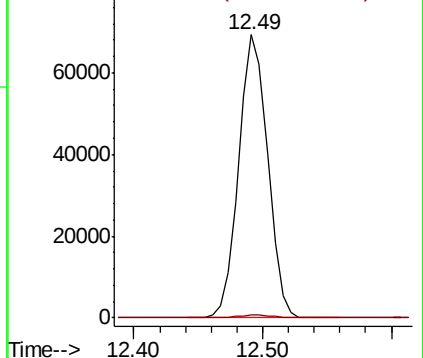
75 100

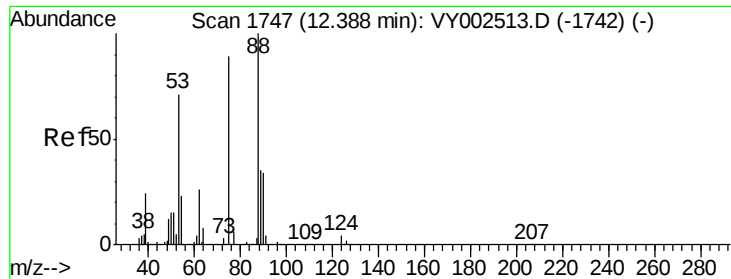
77 1.2 0.0 0.0#



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: 94.881 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002561.D

Acq: 05 May 2020 00:06

Instrument :

MSVOA\_Y

ClientSampleId :

AOC14-CARWASH

Tot Ion: 75 Resp: 107634

Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.0#

89 0.1 37.4 56.0#

