

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX040219\  
 Data File : VX008590.D  
 Acq On : 02 Apr 2019 12:50  
 Operator : JC/SP  
 Sample : K2187-01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-TRACK-89-90

Quant Time: Apr 03 03:31:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Mar 27 12:01:15 2019  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.02  | 128  | 34324    | 30.00 | ug/l  | 0.00     |
| 28) 1,4-Difluorobenzene | 6.86  | 114  | 198615   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 169053   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.06   | 65    | 88060    | 30.67    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 102.23% |
| 60) 4-Bromofluorobenzene  | 11.13  | 95    | 81584    | 27.70    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 92.33%  |
| 63) Toluene-d8            | 8.71   | 98    | 246179   | 30.68    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 102.27% |

## Target Compounds

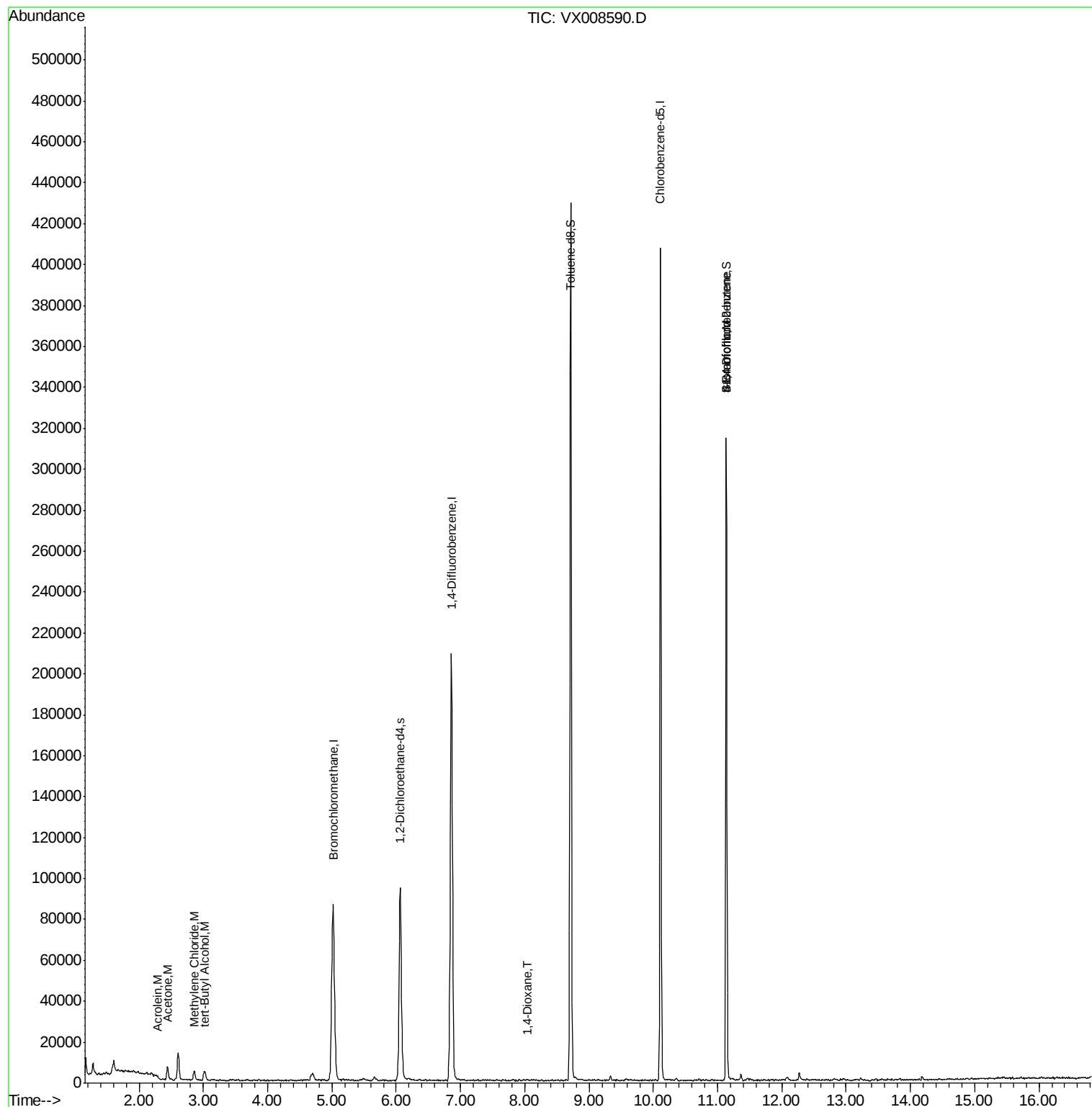
|                             |       |     |       |               | Ovalue |
|-----------------------------|-------|-----|-------|---------------|--------|
| 13) Acrolein                | 2.29  | 56  | 130   | 0.257 ug/l    | 86     |
| 15) Acetone                 | 2.45  | 58  | 2267  | 4.514 ug/l    | 80     |
| 18) Methylene Chloride      | 2.86  | 84  | 1938  | 0.746 ug/l    | 96     |
| 23) tert-Butyl Alcohol      | 3.01  | 59  | 2995  | 4.554 ug/l #  | 99     |
| 45) 1,4-Dioxane             | 8.04  | 88  | 40    | 0.562 ug/l #  | 42     |
| 56) Bromoform               | 11.14 | 173 | 571   | 0.320 ug/l #  | 1      |
| 77) t-1,4-Dichloro-2-butene | 11.13 | 75  | 41391 | 31.947 ug/l # | 6      |

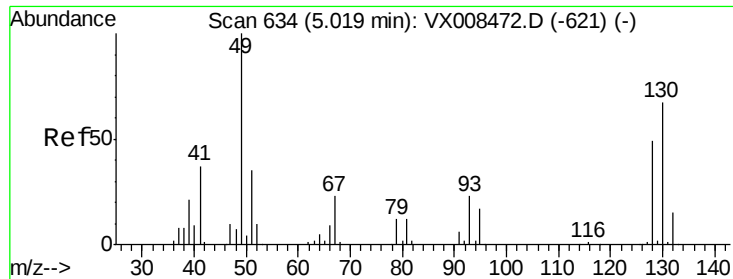
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX040219\  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-TRACK-89-90

Quant Time: Apr 03 03:31:23 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Mar 27 12:01:15 2019  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX008590.D

Acq: 02 Apr 2019 12:50

Instrument :

MSVOA\_X

ClientSampleId :

TP-TRACK-89-90

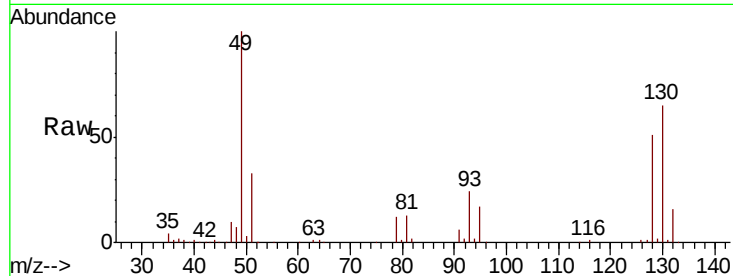
Tot Ion:128 Resp: 34324

Ion Ratio Lower Upper

128 100

49 205.1 0.0 350.8

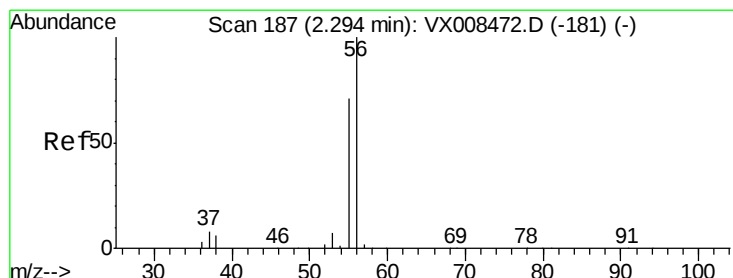
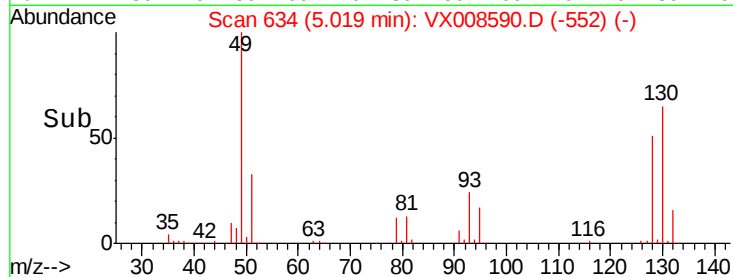
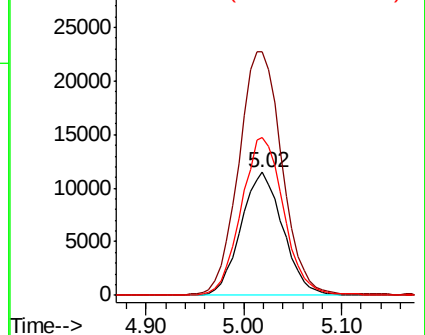
130 129.6 0.0 325.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#13

Acrolein

Concen: 0.257 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.00 min

Lab File: VX008590.D

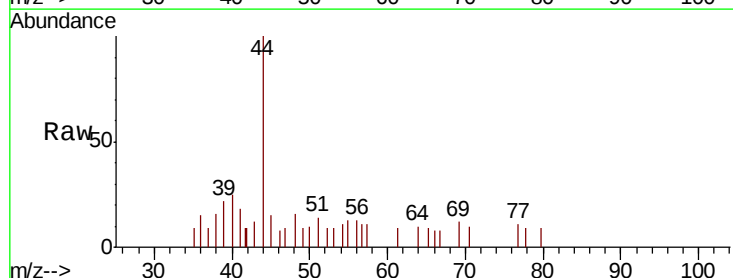
Acq: 02 Apr 2019 12:50

Tgt Ion: 56 Resp: 130

Ion Ratio Lower Upper

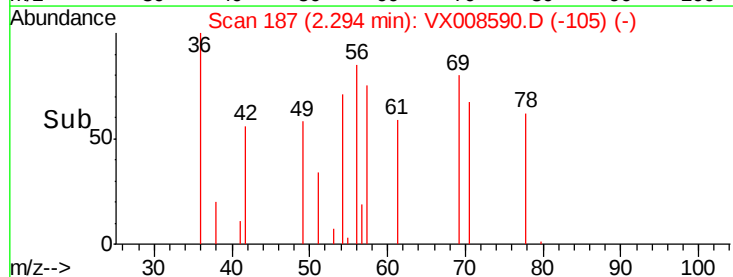
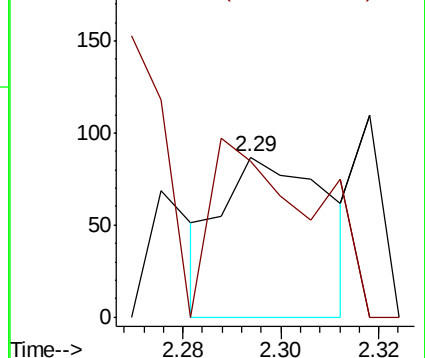
56 100

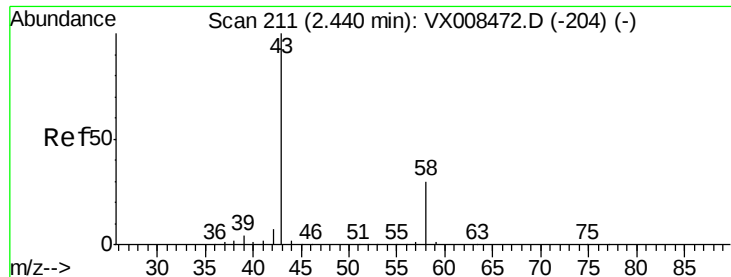
55 84.6 58.6 87.8



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#15

Acetone

Concen: 4.514 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.01 min

Lab File: VX008590.D

Acq: 02 Apr 2019 12:50

Instrument :

MSVOA\_X

ClientSampleId :

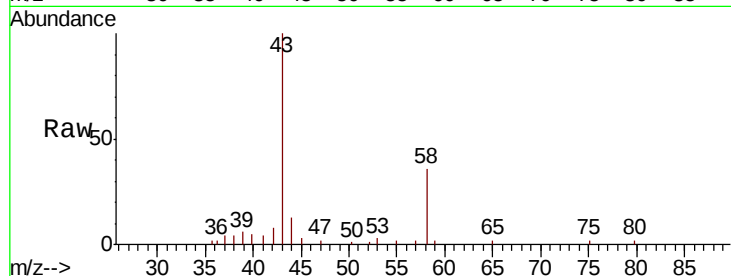
TP-TRACK-89-90

Tot Ion: 58 Resp: 2267

Ion Ratio Lower Upper

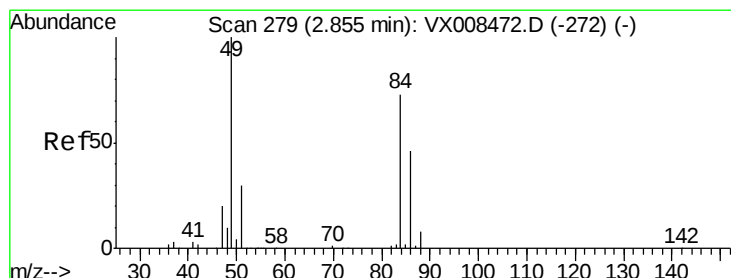
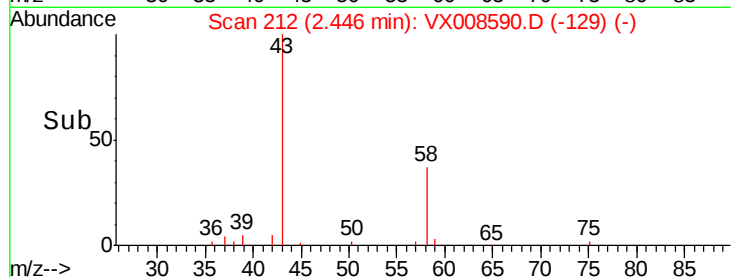
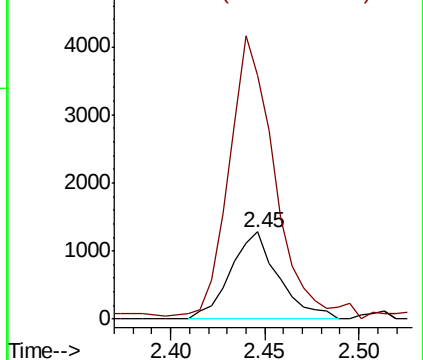
58 100

43 272.8 249.8 374.6



Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#18

Methylene Chloride

Concen: 0.746 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX008590.D

Acq: 02 Apr 2019 12:50

Tgt Ion: 84 Resp: 1938

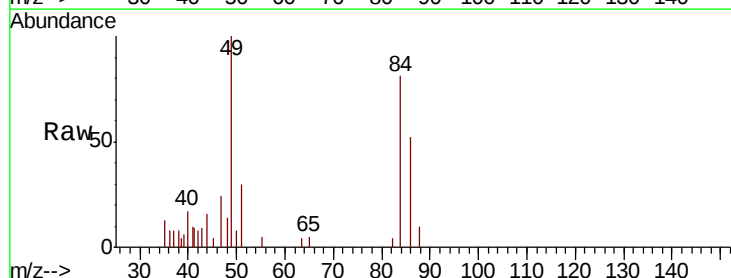
Ion Ratio Lower Upper

84 100

49 115.5 96.1 144.1

51 37.5 29.1 43.7

86 63.8 47.3 70.9

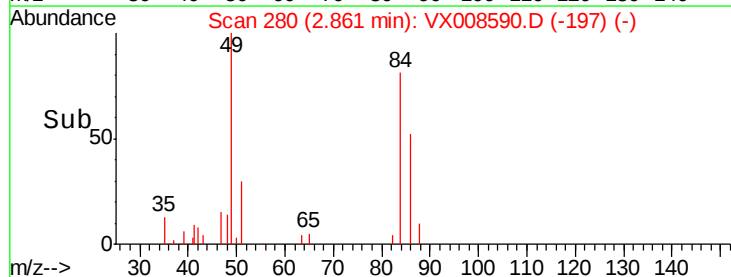
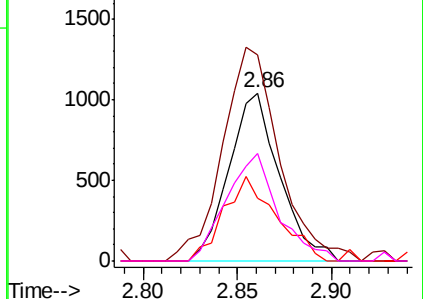


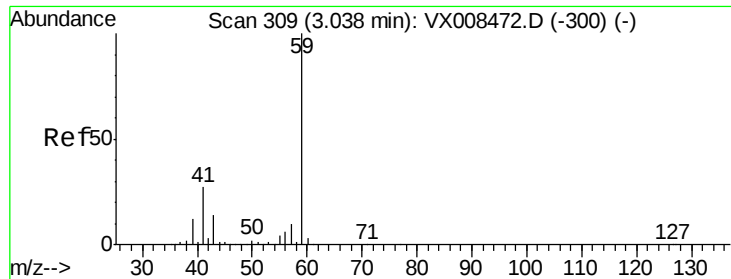
Abundance Ion 84.00 (83.70 to 84.70): VX0

Ion 49.00 (48.70 to 49.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



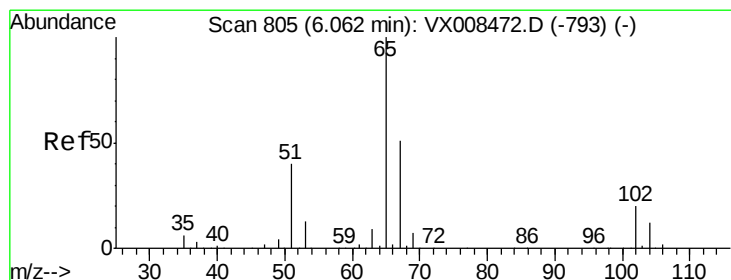
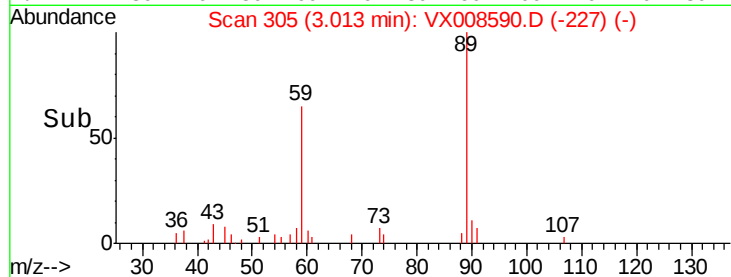
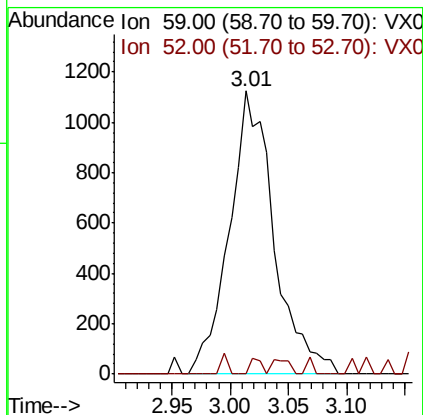
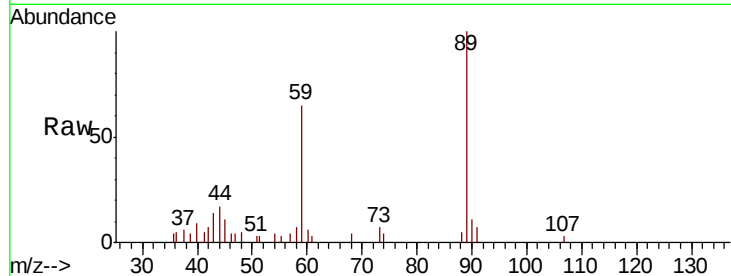


#23

tert-Butyl Alcohol  
 Concen: 4.554 ug/l  
 RT: 3.01 min Scan# 305  
 Delta R.T. -0.02 min  
 Lab File: VX008590.D  
 Acq: 02 Apr 2019 12:50

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-TRACK-89-90

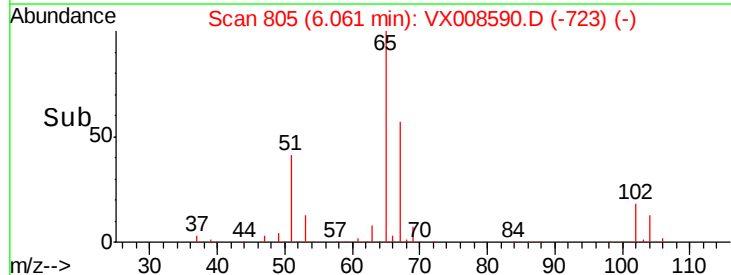
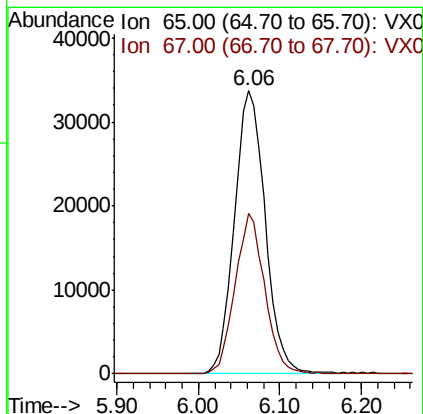
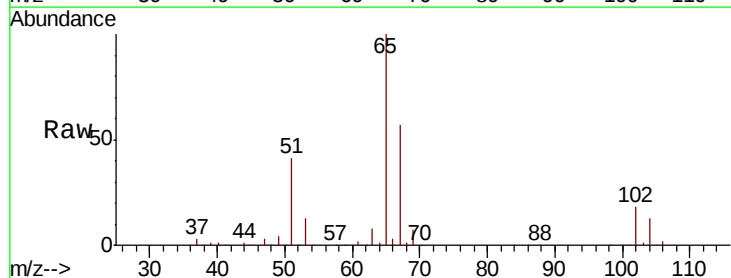
Tot Ion: 59 Resp: 2995  
 Ion Ratio Lower Upper  
 59 100  
 52 1.4 0.2 0.2#

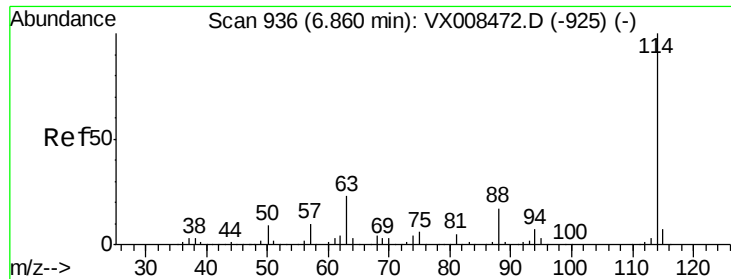


#27

1,2-Dichloroethane-d4  
 Concen: 30.668 ug/l  
 RT: 6.06 min Scan# 805  
 Delta R.T. -0.00 min  
 Lab File: VX008590.D  
 Acq: 02 Apr 2019 12:50

Tgt Ion: 65 Resp: 88060  
 Ion Ratio Lower Upper  
 65 100  
 67 54.3 42.9 64.3

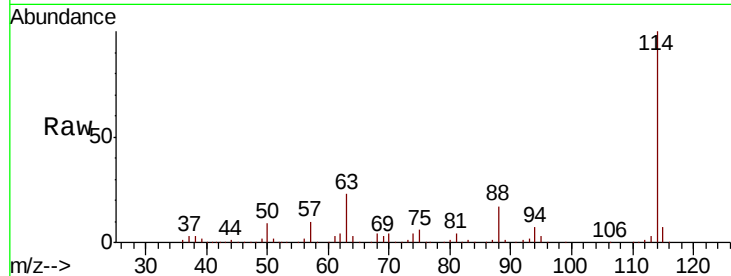




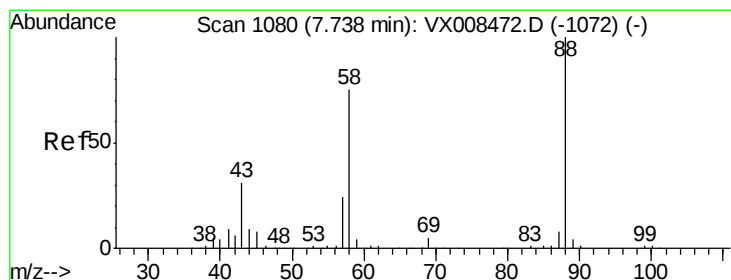
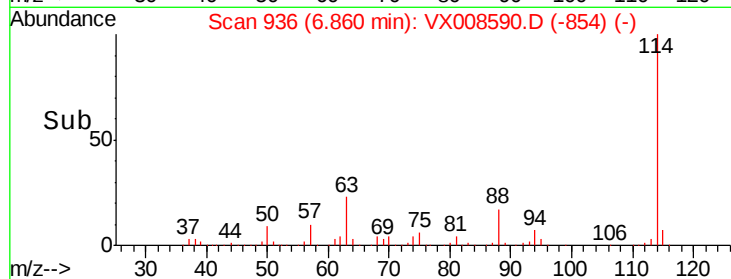
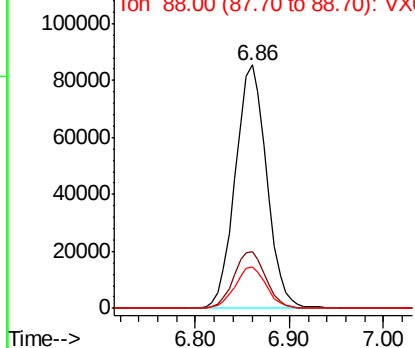
#28  
 1,4-Difluorobenzene  
 Concen: 30.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX008590.D  
 Acq: 02 Apr 2019 12:50

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-TRACK-89-90

Tot Ion:114 Resp: 198615  
 Ion Ratio Lower Upper  
 114 100  
 63 23.9 14.2 21.4#  
 88 17.0 11.9 17.9

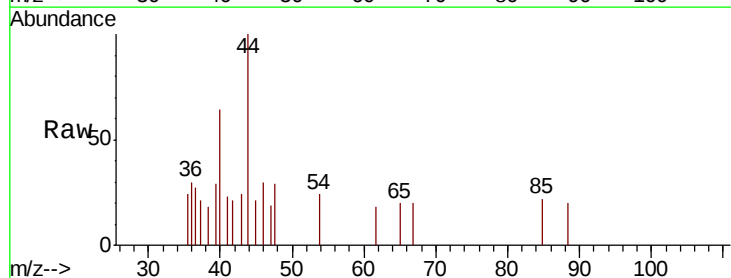


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 88.00 (87.70 to 88.70): VX0

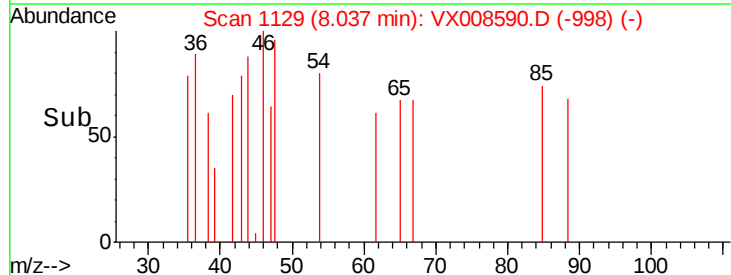
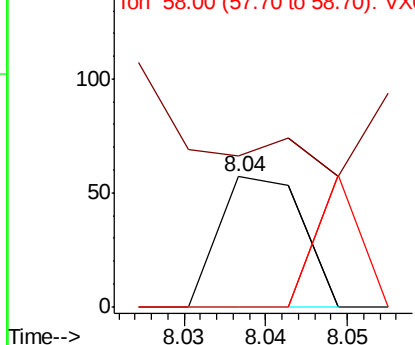


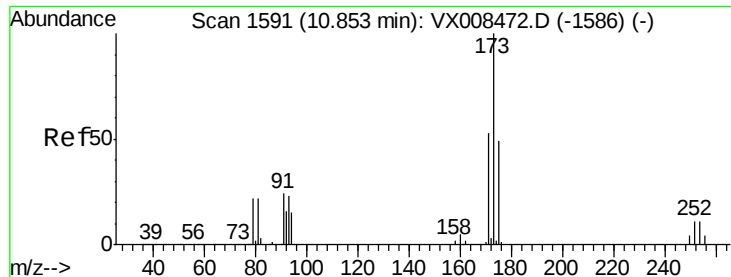
#45  
 1,4-Dioxane  
 Concen: 0.562 ug/l  
 RT: 8.04 min Scan# 1129  
 Delta R.T. 0.30 min  
 Lab File: VX008590.D  
 Acq: 02 Apr 2019 12:50

Tgt Ion: 88 Resp: 40  
 Ion Ratio Lower Upper  
 88 100  
 43 27.5 23.6 35.4  
 58 0.0 51.6 77.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0  
 Ion 43.00 (42.70 to 43.70): VX0  
 Ion 58.00 (57.70 to 58.70): VX0





#56

Bromoform

Concen: 0.320 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.29 min

Lab File: VX008590.D

Acq: 02 Apr 2019 12:50

Instrument :

MSVOA\_X

ClientSampleId :

TP-TRACK-89-90

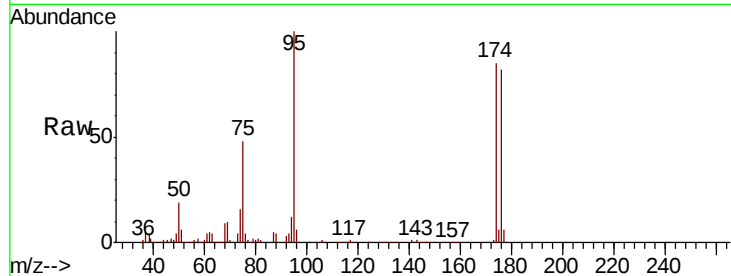
Tot Ion:173 Resp: 571

Ion Ratio Lower Upper

173 100

175 804.2 38.5 57.7#

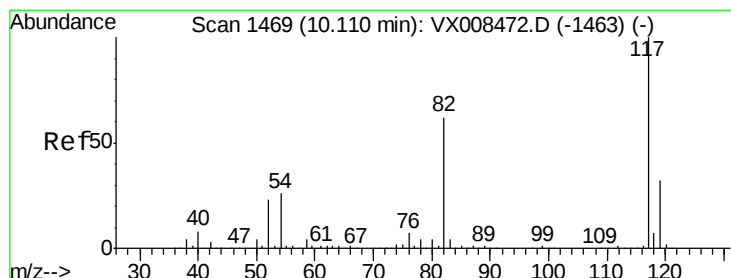
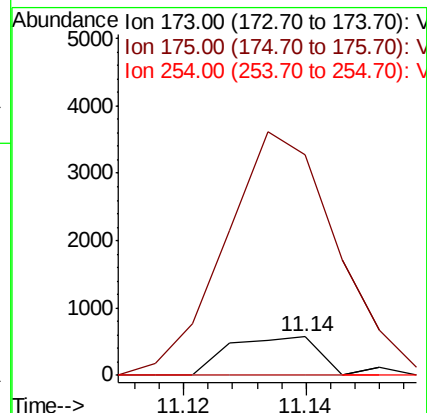
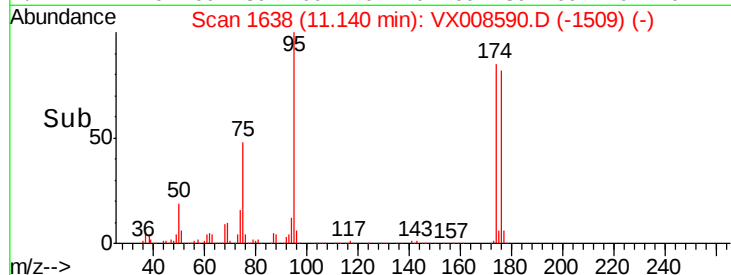
254 0.0 7.4 11.2#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX008590.D

Acq: 02 Apr 2019 12:50

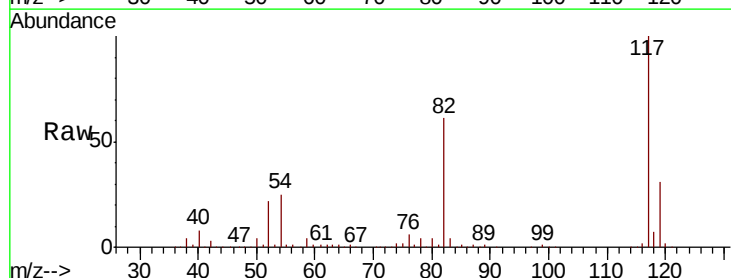
Tgt Ion:117 Resp: 169053

Ion Ratio Lower Upper

117 100

82 60.7 40.4 60.6#

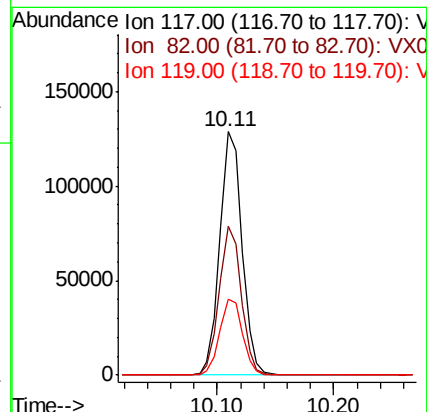
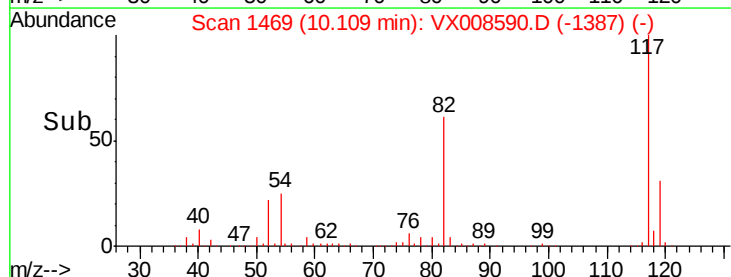
119 31.9 25.8 38.6

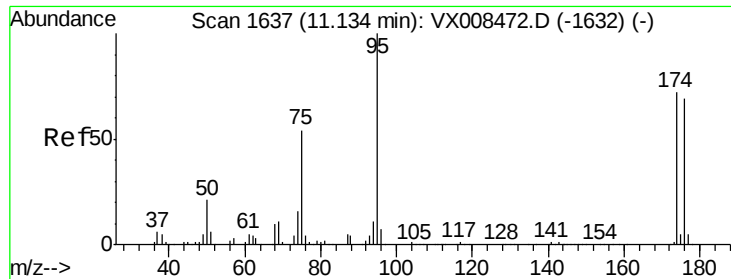


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V

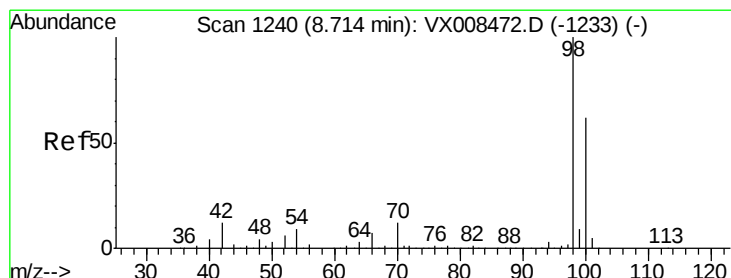
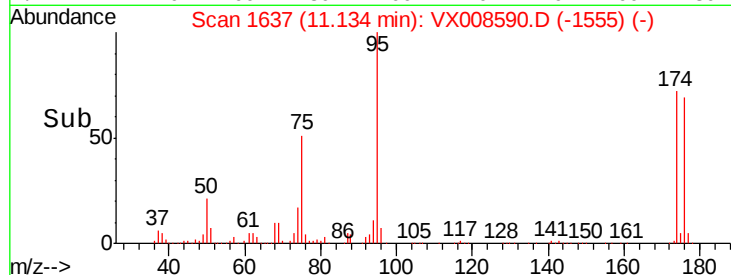
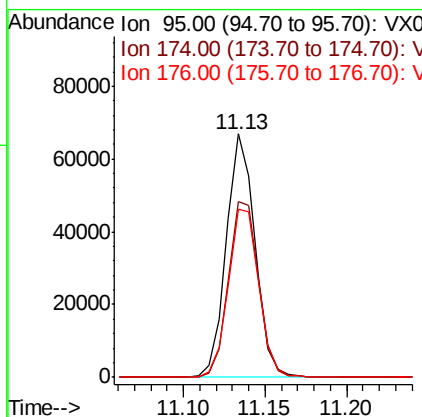
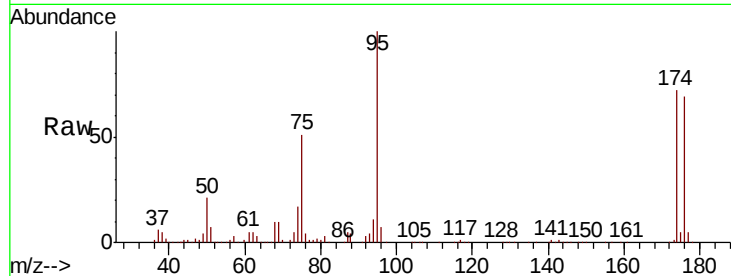




#60  
 4-Bromofluorobenzene  
 Concen: 27.698 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.00 min  
 Lab File: VX008590.D  
 Acq: 02 Apr 2019 12:50

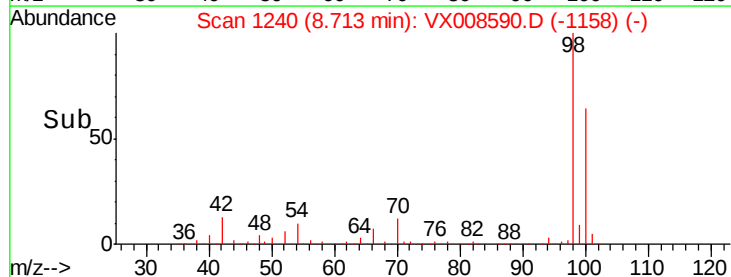
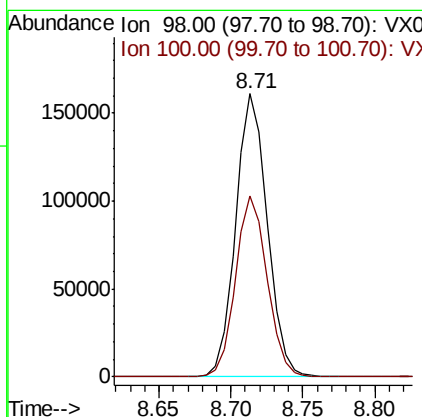
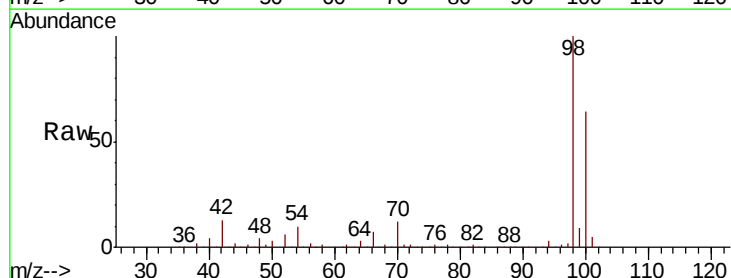
Instrument :  
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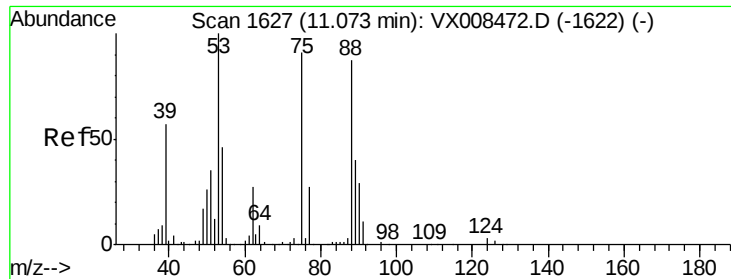
Tot Ion: 95 Resp: 81584  
 Ion Ratio Lower Upper  
 95 100  
 174 76.3 74.9 112.3  
 176 73.3 70.7 106.1



#63  
 Toluene-d8  
 Concen: 30.678 ug/l  
 RT: 8.71 min Scan# 1240  
 Delta R.T. -0.00 min  
 Lab File: VX008590.D  
 Acq: 02 Apr 2019 12:50

Tgt Ion: 98 Resp: 246179  
 Ion Ratio Lower Upper  
 98 100  
 100 64.2 50.9 76.3





#77  
 t-1,4-Dichloro-2-butene  
 Concen: 31.947 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX008590.D  
 Acq: 02 Apr 2019 12:50

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-TRACK-89-90

Tot Ion: 75 Resp: 41391  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 55.5 166.7#  
 89 0.0 24.4 73.2#

