

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121020\
 Data File : VX019860.D
 Acq On : 11 Dec 2020 05:50
 Operator : JC/MD
 Sample : L4984-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-A-TOP

Quant Time: Dec 11 06:27:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	317805	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	531531	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	502503	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	214801	50.00	ug/l	0.00

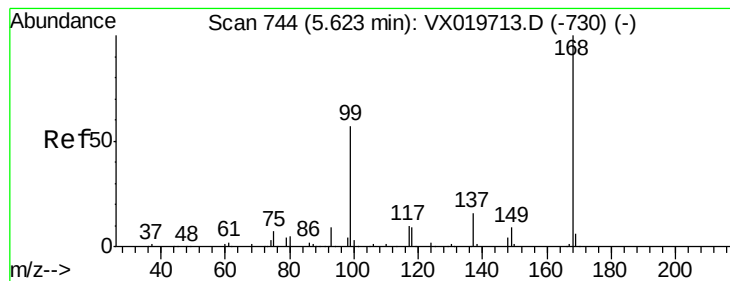
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	206963	49.55	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	99.10%		
35) Dibromofluoromethane	5.46	113	167366	48.72	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	97.44%		
50) Toluene-d8	8.70	98	660871	50.39	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	100.78%		
62) 4-Bromofluorobenzene	11.12	95	229799	46.04	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	92.08%		

Target Compounds

					Qvalue
5) Bromomethane	1.63	94	331	0.276 ug/l #	78
11) Tert butyl alcohol	3.00	59	6135	4.579 ug/l #	76
13) Acrolein	2.28	56	319	0.692 ug/l	88
16) Acetone	2.42	43	25625	16.322 ug/l	98
18) Methyl Acetate	2.75	43	1459	0.380 ug/l	91
20) Methylene Chloride	2.84	84	33699	8.213 ug/l	98
25) 2-Butanone	4.65	43	3649	1.513 ug/l	98
29) Tetrahydrofuran	5.10	42	1016	0.654 ug/l #	87
31) Cyclohexane	5.62	56	6223	1.198 ug/l #	1
36) 1,1-Dichloropropene	5.63	75	24071	5.012 ug/l #	48
38) Carbon Tetrachloride	5.63	117	31251	6.644 ug/l #	17
43) Isopropyl Acetate	6.41	43	20337	2.579 ug/l	99
48) Methyl methacrylate	7.65	41	5470	1.411 ug/l #	10
49) 1,4-Dioxane	7.84	88	152	1.618 ug/l #	1
51) 4-Methyl-2-Pentanone	8.59	43	77798	16.162 ug/l #	47
54) cis-1,3-Dichloropropene	8.59	75	41097	6.937 ug/l #	60
57) 1,3-Dichloropropane	9.52	76	21587	3.419 ug/l #	43
59) 2-Hexanone	9.52	43	264281	70.830 ug/l #	46
76) 1,2,3-Trichloropropane	11.12	75	112105	23.270 ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	112105	67.269 ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019860.D

Acq: 11 Dec 2020 05:50

Instrument :

MSVOA_X

ClientSampleId :

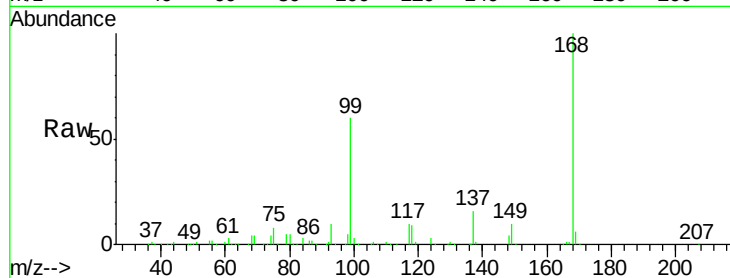
TR3-A-TOP

Tgt Ion: 168 Resp: 317805

Ion Ratio Lower Upper

168 100

99 59.6 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

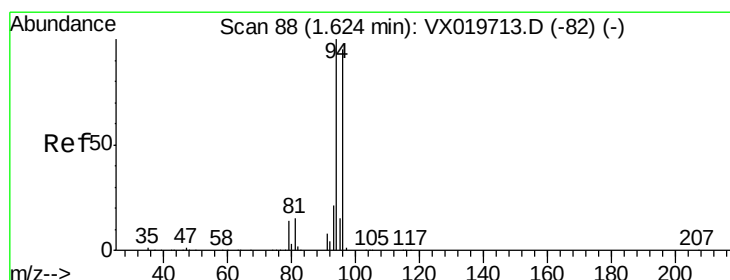
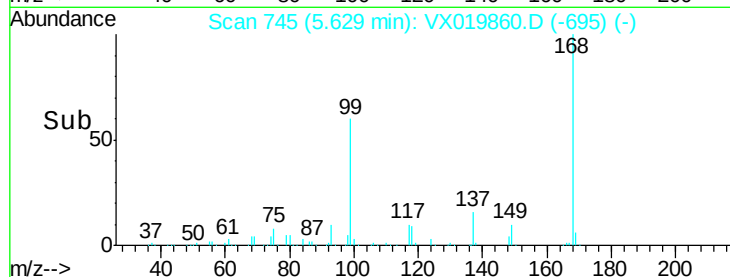
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.276 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019860.D

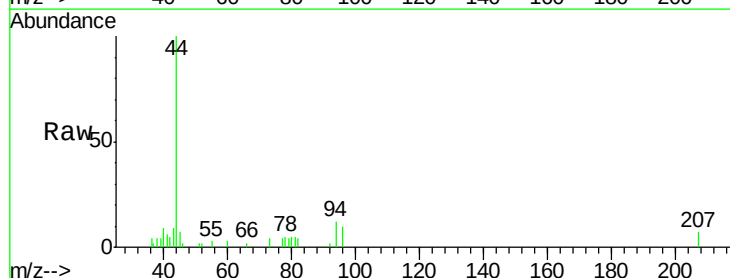
Acq: 11 Dec 2020 05:50

Tgt Ion: 94 Resp: 331

Ion Ratio Lower Upper

94 100

96 73.8 76.4 114.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

400

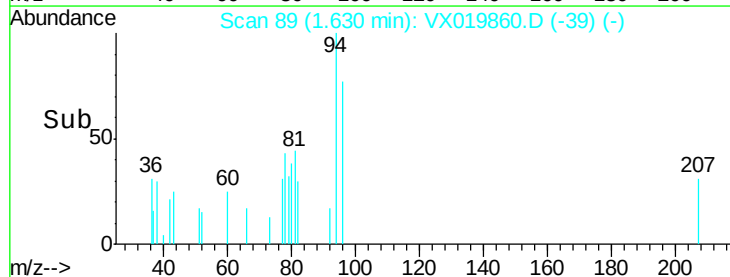
300

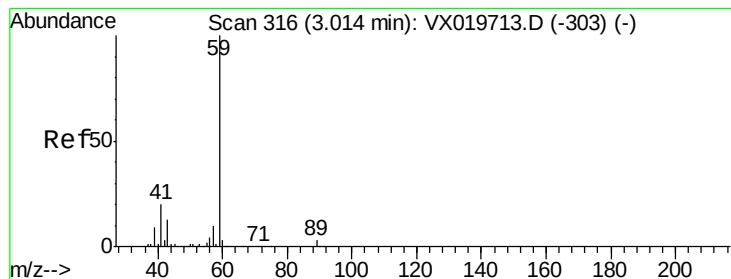
200

100

0

Time-->





#11

Tert butyl alcohol

Concen: 4.579 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019860.D

Acq: 11 Dec 2020 05:50

Instrument :

MSVOA_X

ClientSampleId :

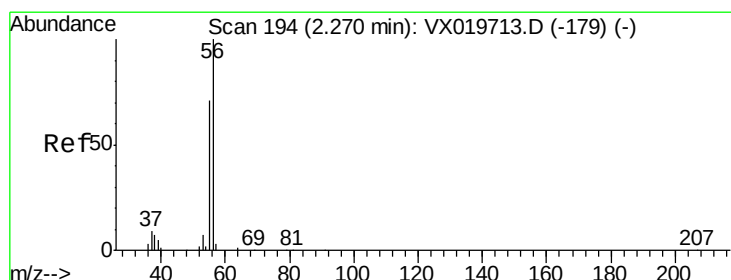
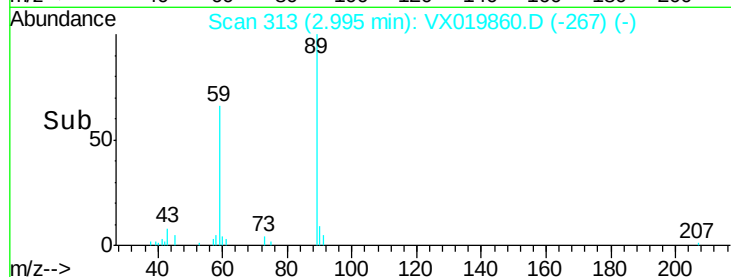
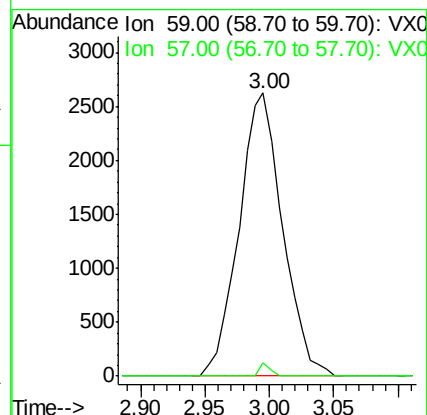
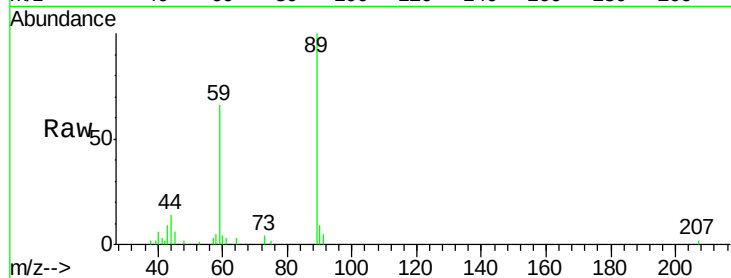
TR3-A-TOP

Tgt Ion: 59 Resp: 6135

Ion Ratio Lower Upper

59 100

57 1.1 7.8 11.8#



#13

Acrolein

Concen: 0.692 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019860.D

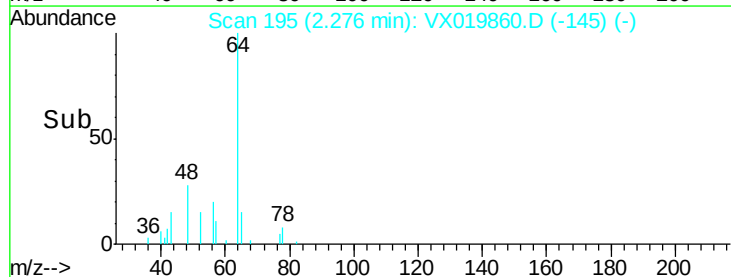
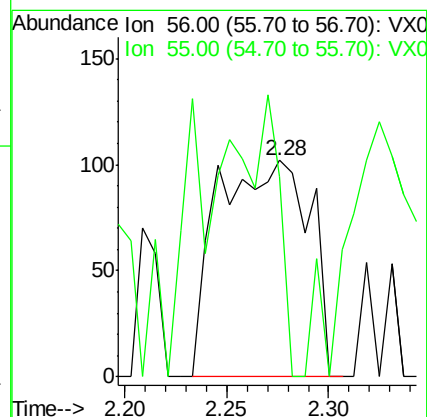
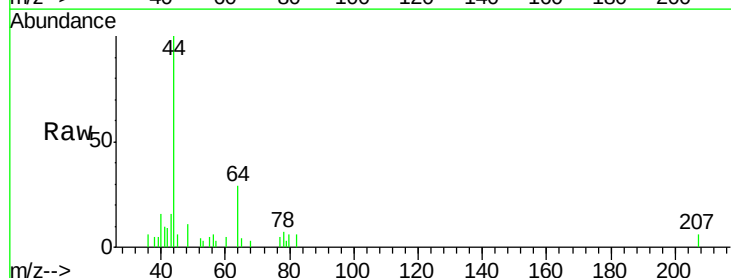
Acq: 11 Dec 2020 05:50

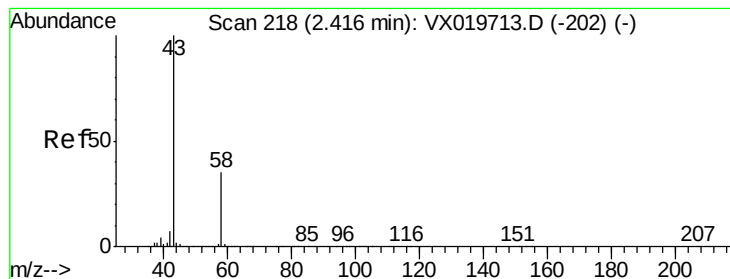
Tgt Ion: 56 Resp: 319

Ion Ratio Lower Upper

56 100

55 60.8 56.4 84.6





#16

Acetone

Concen: 16.322 ug/l

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX019860.D

Acq: 11 Dec 2020 05:50

Instrument :

MSVOA_X

ClientSampled :

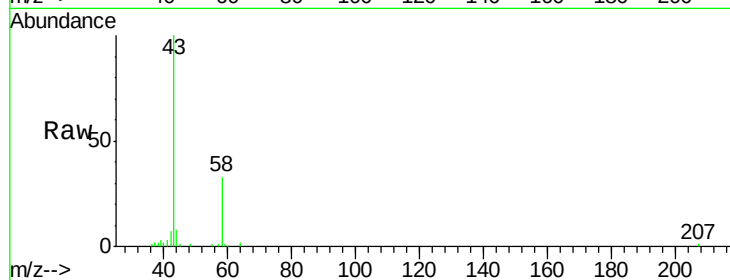
TR3-A-TOP

Tgt Ion: 43 Resp: 25625

Ion Ratio Lower Upper

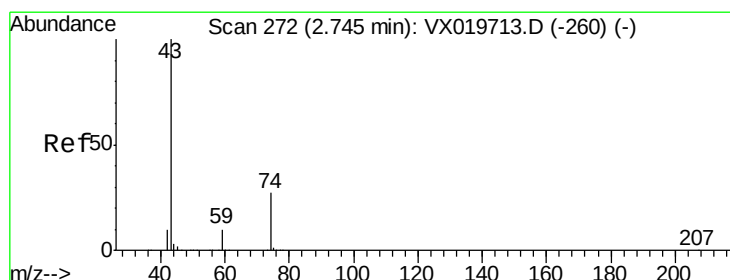
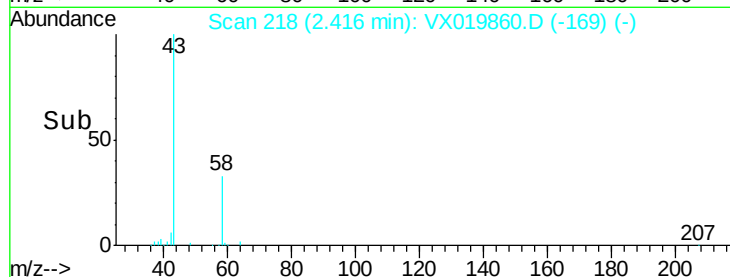
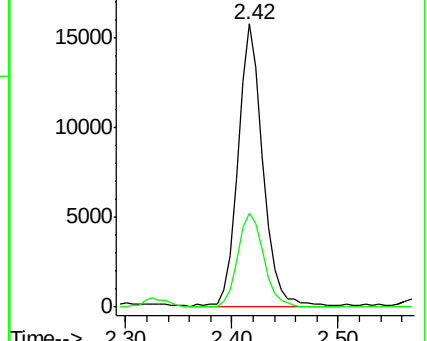
43 100

58 33.4 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.380 ug/l

RT: 2.75 min Scan# 273

Delta R.T. 0.01 min

Lab File: VX019860.D

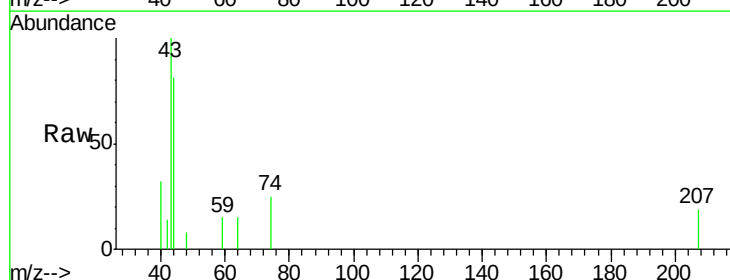
Acq: 11 Dec 2020 05:50

Tgt Ion: 43 Resp: 1459

Ion Ratio Lower Upper

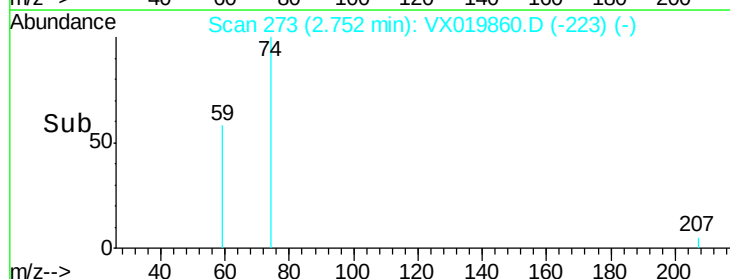
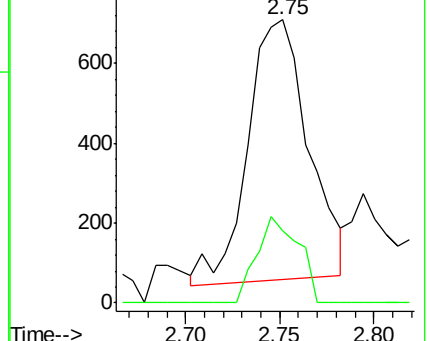
43 100

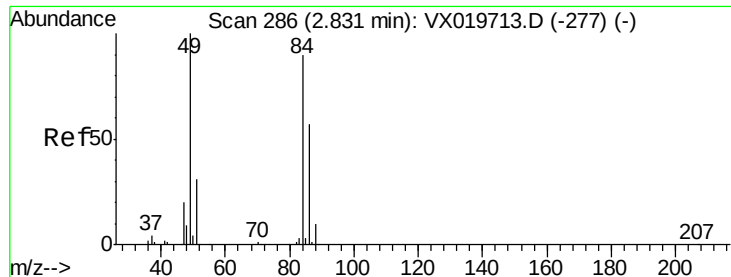
74 22.7 21.9 32.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

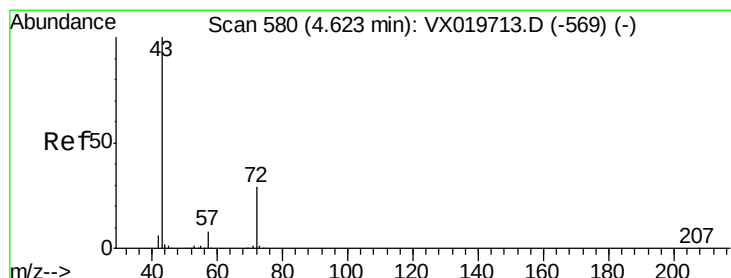
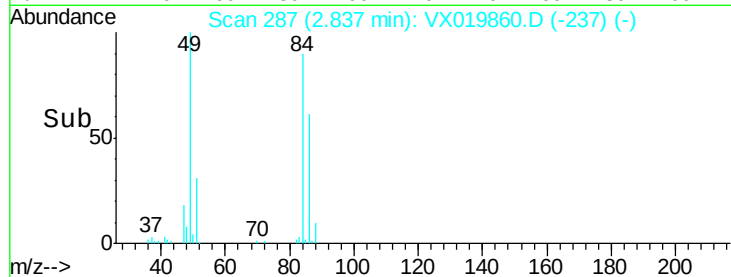
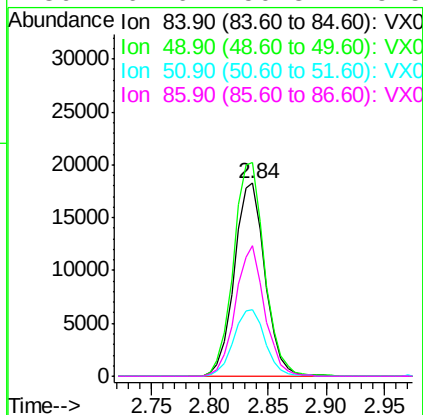
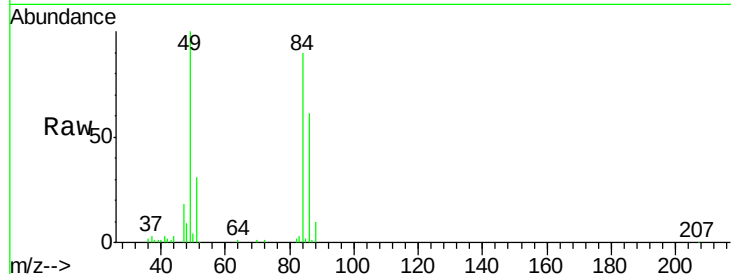




#20
Methylene Chloride
Concen: 8.213 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX019860.D
Acq: 11 Dec 2020 05:50

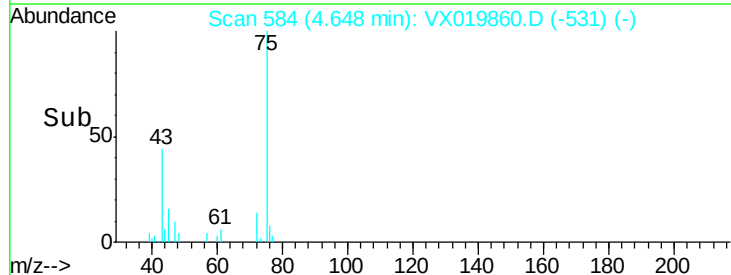
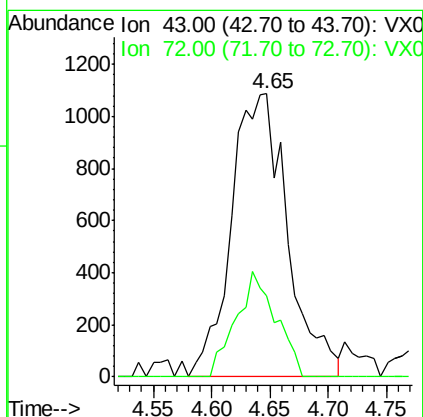
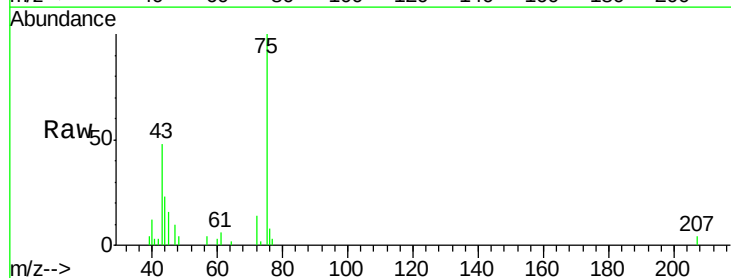
Instrument :
MSVOA_X
ClientSampleId :
TR3-A-TOP

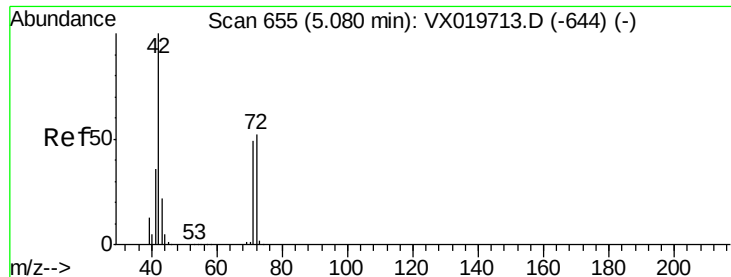
Tgt Ion:	84	Resp:	33699
Ion	Ratio	Lower	Upper
84	100		
49	110.8	88.6	132.8
51	34.4	27.0	40.6
86	67.6	50.3	75.5



#25
2-Butanone
Concen: 1.513 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.02 min
Lab File: VX019860.D
Acq: 11 Dec 2020 05:50

Tgt Ion:	43	Resp:	3649
Ion	Ratio	Lower	Upper
43	100		
72	28.5	23.7	35.5

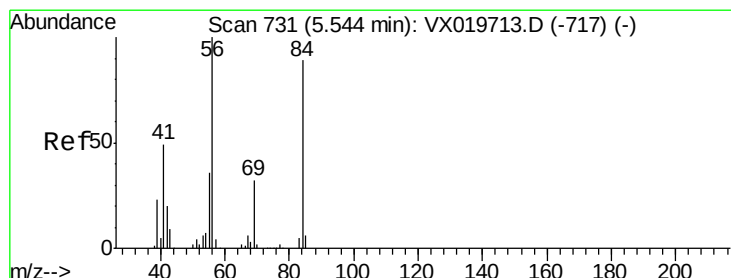
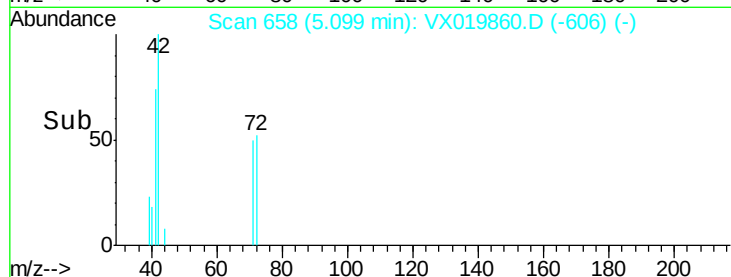
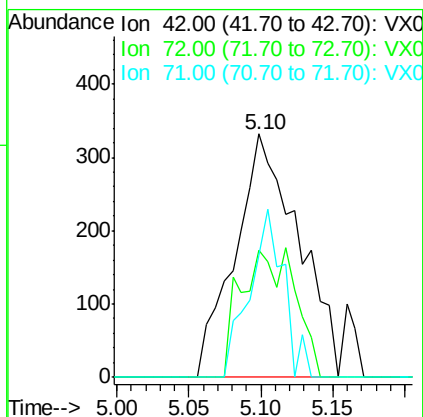
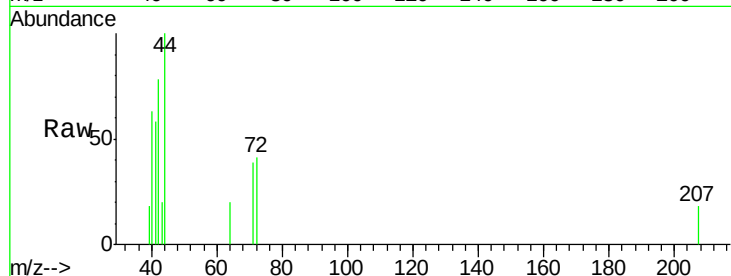




#29
Tetrahydrofuran
Concen: 0.654 ug/l
RT: 5.10 min Scan# 658
Delta R.T. 0.02 min
Lab File: VX019860.D
Acq: 11 Dec 2020 05:50

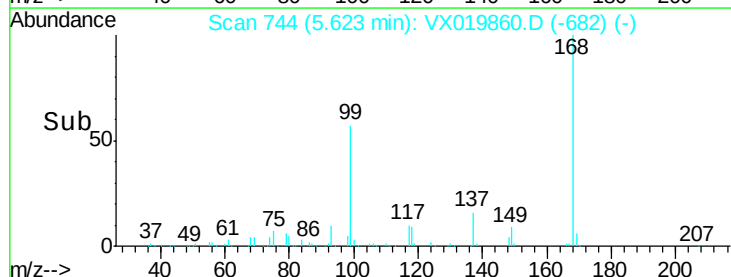
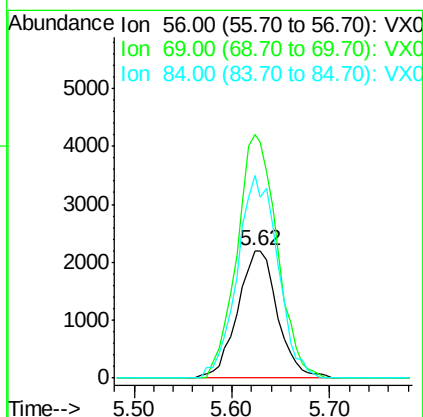
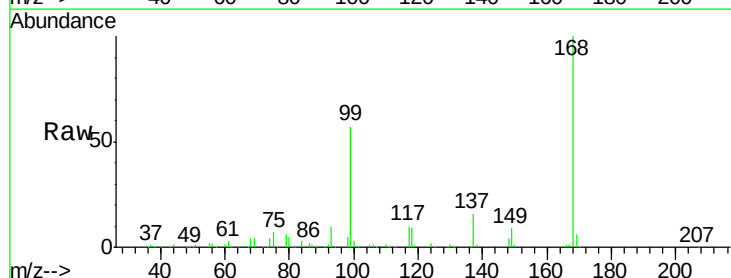
Instrument :
MSVOA_X
ClientSampleId :
TR3-A-TOP

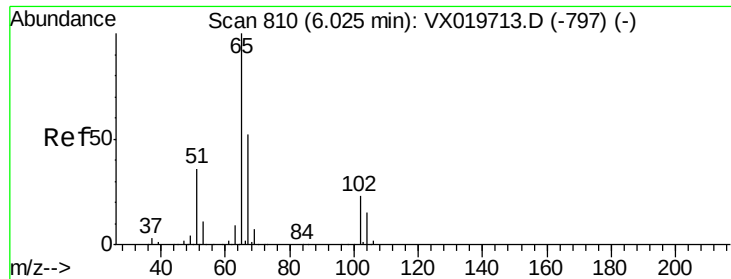
Tgt Ion: 42 Resp: 1016
Ion Ratio Lower Upper
42 100
72 45.3 41.7 62.5
71 37.0 38.4 57.6#



#31
Cyclohexane
Concen: 1.198 ug/l
RT: 5.62 min Scan# 744
Delta R.T. 0.08 min
Lab File: VX019860.D
Acq: 11 Dec 2020 05:50

Tgt Ion: 56 Resp: 6223
Ion Ratio Lower Upper
56 100
69 191.4 25.3 37.9#
84 159.4 71.4 107.0#

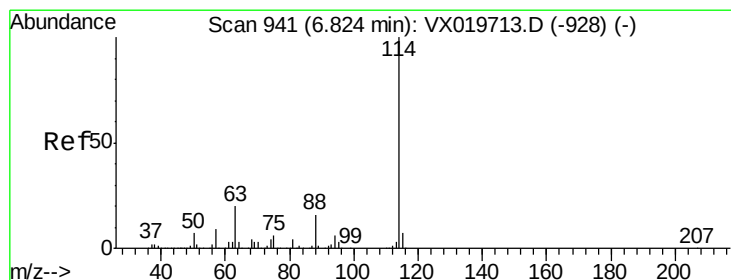
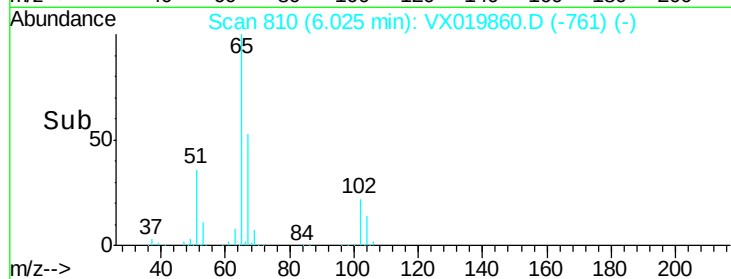
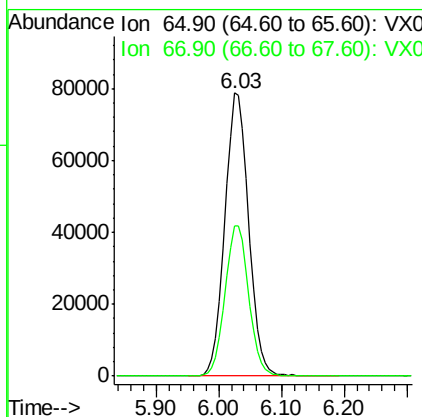
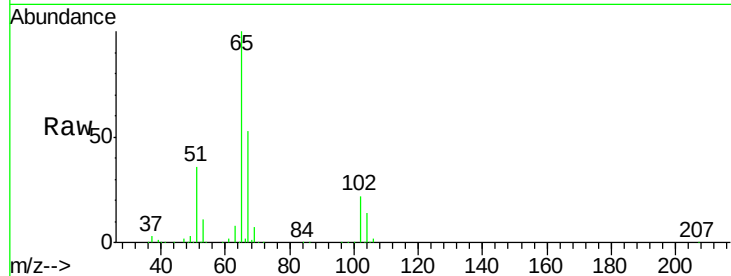




#33
 1,2-Dichloroethane-d4
 Concen: 49.550 ug/l
 RT: 6.03 min Scan# 810
 Delta R.T. 0.00 min
 Lab File: VX019860.D
 Acq: 11 Dec 2020 05:50

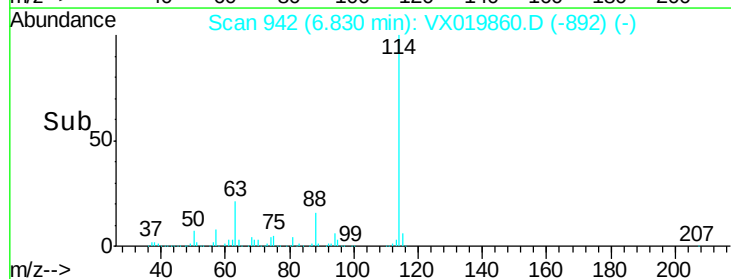
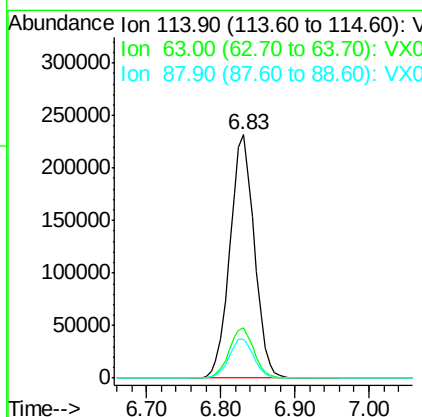
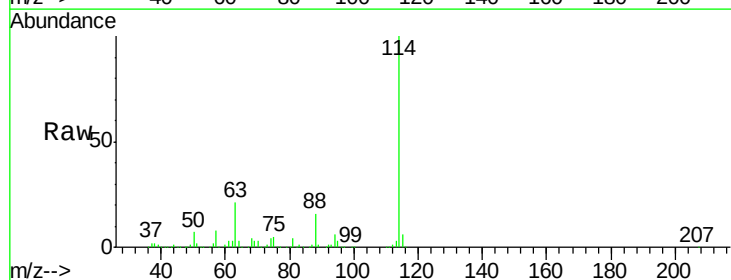
Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-A-TOP

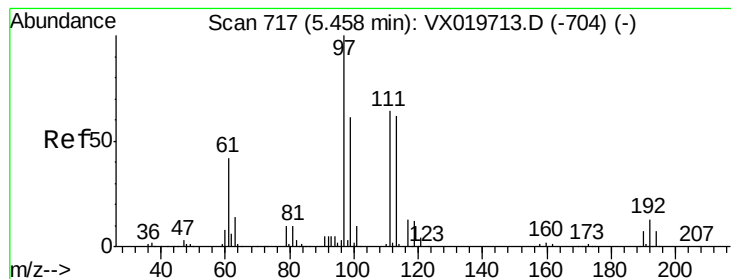
Tgt Ion: 65 Resp: 206963
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 105.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.01 min
 Lab File: VX019860.D
 Acq: 11 Dec 2020 05:50

Tgt Ion: 114 Resp: 531531
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 40.8
 88 16.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 48.721 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019860.D

Acq: 11 Dec 2020 05:50

Instrument :

MSVOA_X

ClientSampleId :

TR3-A-TOP

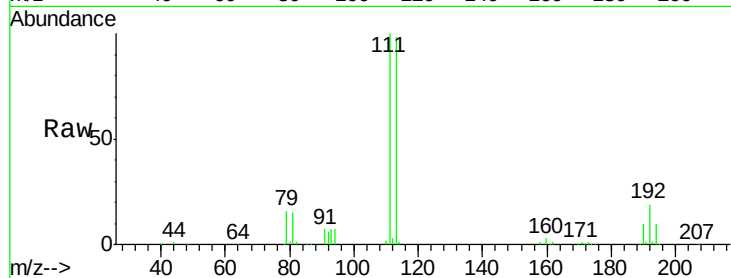
Tgt Ion:113 Resp: 167366

Ion Ratio Lower Upper

113 100

111 103.0 81.9 122.9

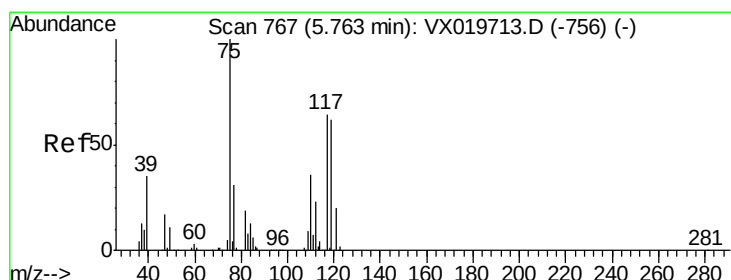
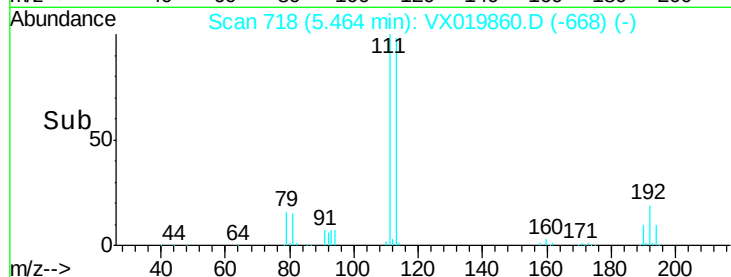
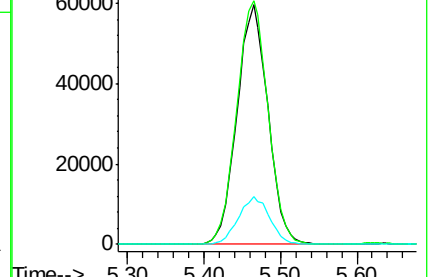
192 20.0 16.7 25.1



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: 5.012 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019860.D

Acq: 11 Dec 2020 05:50

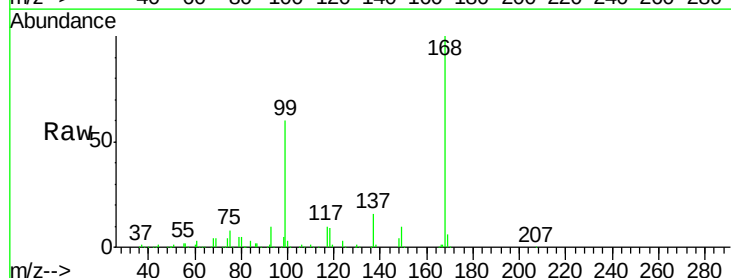
Tgt Ion: 75 Resp: 24071

Ion Ratio Lower Upper

75 100

110 8.5 18.1 54.4#

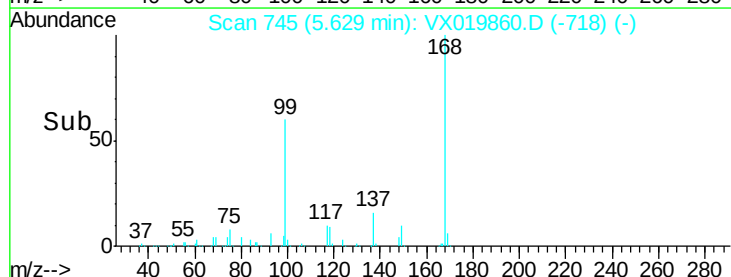
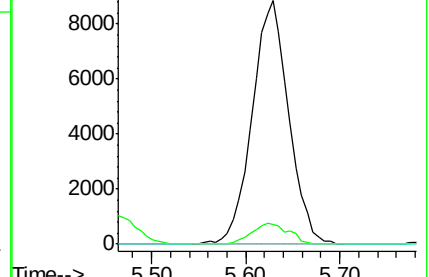
77 0.0 25.3 37.9#

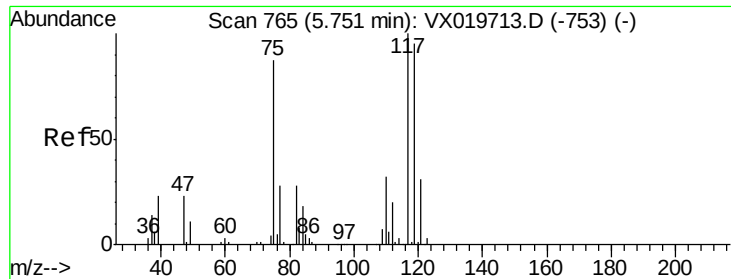


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

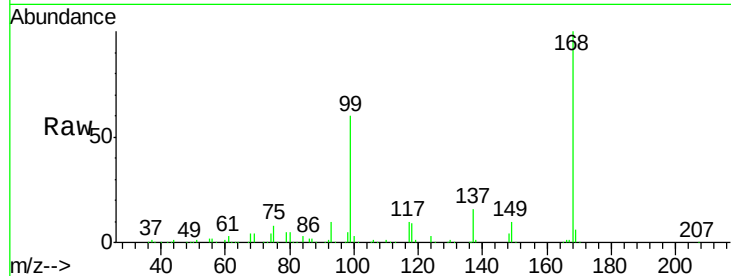




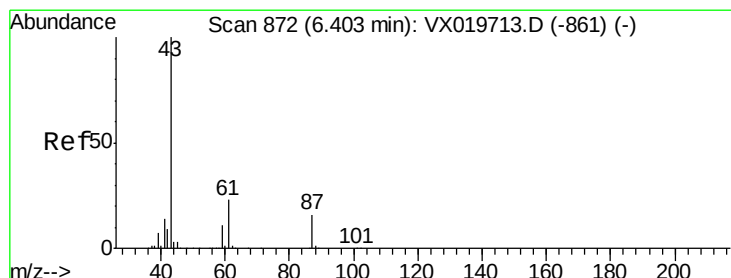
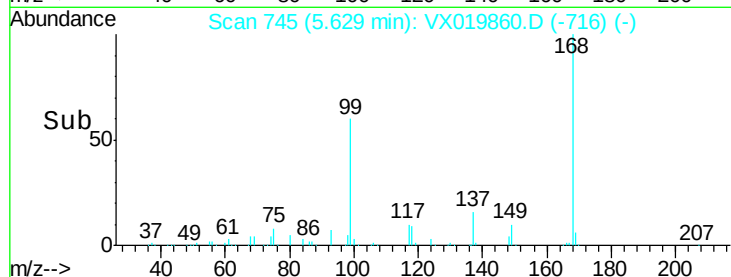
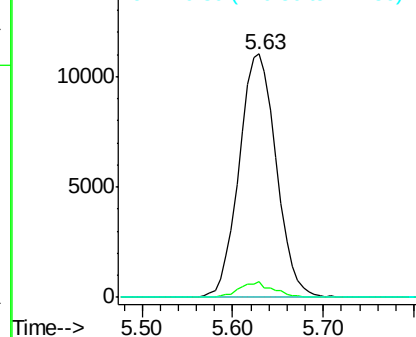
#38
Carbon Tetrachloride
Concen: 6.644 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.12 min
Lab File: VX019860.D
Acq: 11 Dec 2020 05:50

Instrument :
MSVOA_X
ClientSampleId :
TR3-A-TOP

Tgt Ion: 117 Resp: 31251
Ion Ratio Lower Upper
117 100
119 6.7 76.2 114.2#
121 0.0 24.8 37.2#

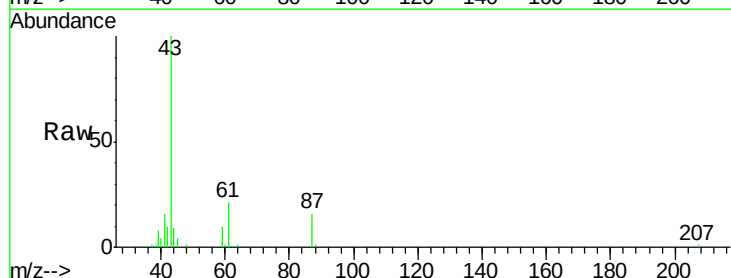


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

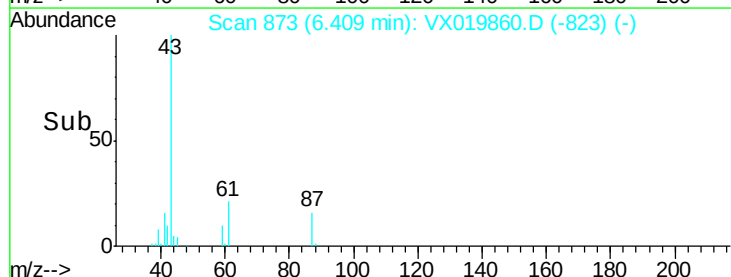
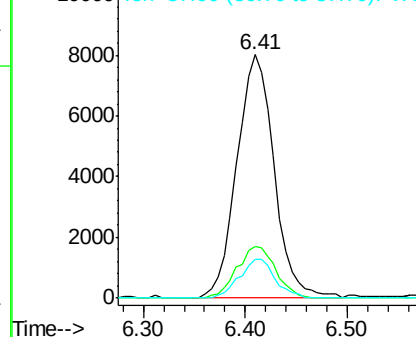


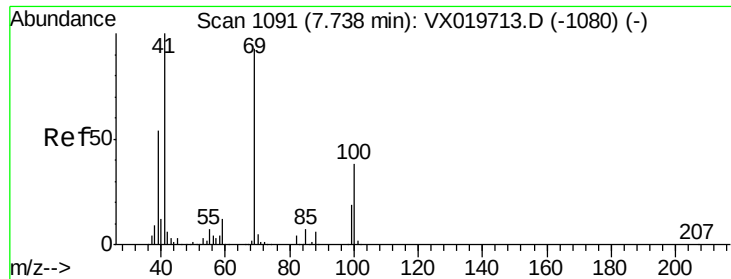
#43
Isopropyl Acetate
Concen: 2.579 ug/l
RT: 6.41 min Scan# 873
Delta R.T. 0.01 min
Lab File: VX019860.D
Acq: 11 Dec 2020 05:50

Tgt Ion: 43 Resp: 20337
Ion Ratio Lower Upper
43 100
61 22.1 18.2 27.4
87 15.2 12.5 18.7



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0

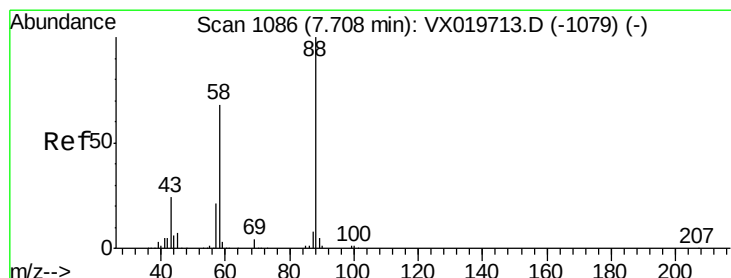
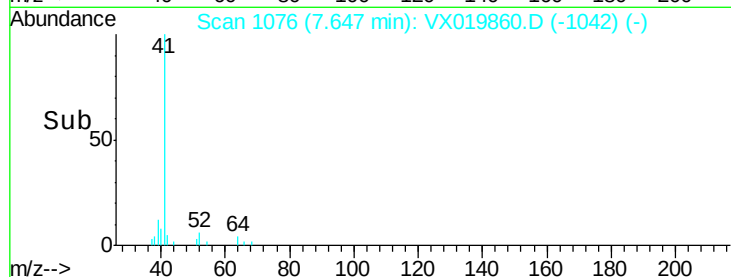
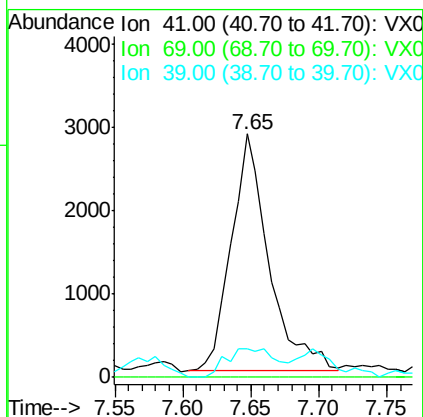
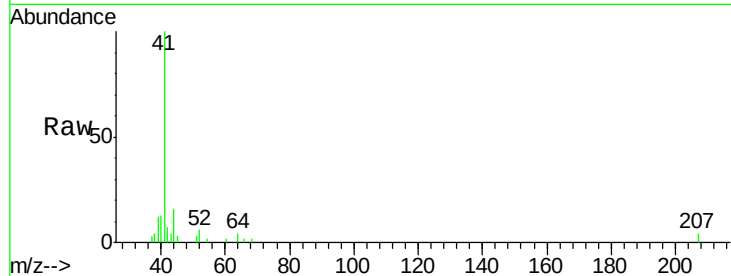




#48
Methyl methacrylate
Concen: 1.411 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.09 min
Lab File: VX019860.D
Acq: 11 Dec 2020 05:50

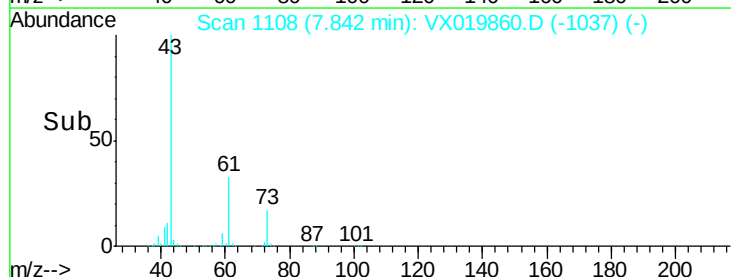
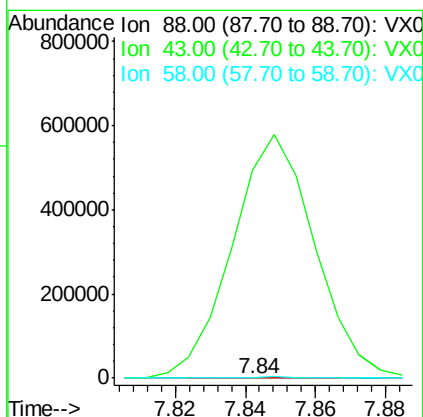
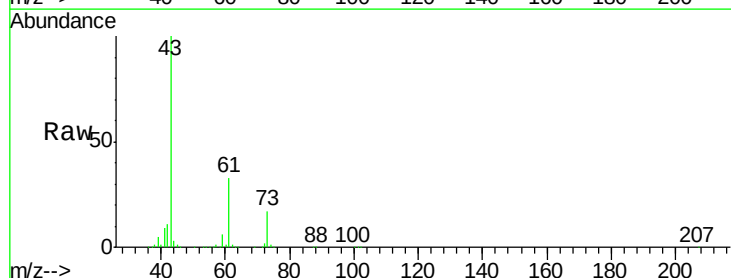
Instrument :
MSVOA_X
ClientSampleId :
TR3-A-TOP

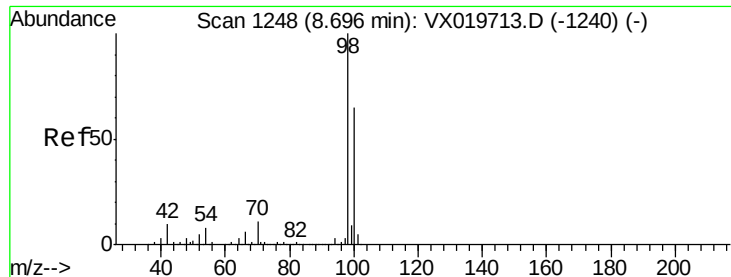
Tgt Ion: 41 Resp: 5470
Ion Ratio Lower Upper
41 100
69 0.0 76.0 114.0#
39 0.0 44.6 67.0#



#49
1,4-Dioxane
Concen: 1.618 ug/l
RT: 7.84 min Scan# 1108
Delta R.T. 0.13 min
Lab File: VX019860.D
Acq: 11 Dec 2020 05:50

Tgt Ion: 88 Resp: 152
Ion Ratio Lower Upper
88 100
43 628576.3 23.2 34.8#
58 3290.1 55.0 82.4#





#50

Toluene-d8

Concen: 50.392 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX019860.D

Acq: 11 Dec 2020 05:50

Instrument :

MSVOA_X

ClientSampleId :

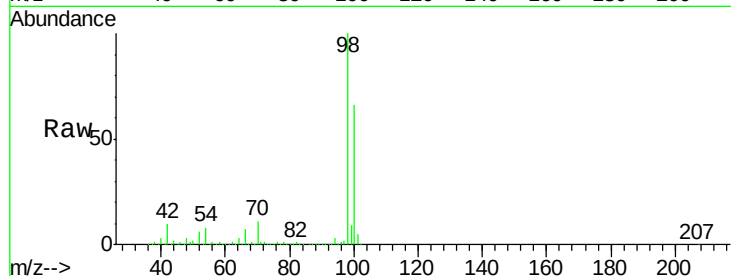
TR3-A-TOP

Tgt Ion: 98 Resp: 660871

Ion Ratio Lower Upper

98 100

100 65.8 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.70

400000

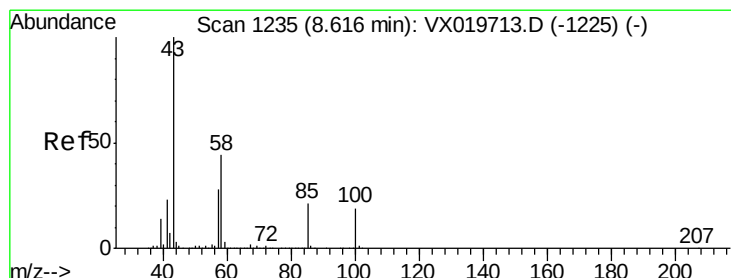
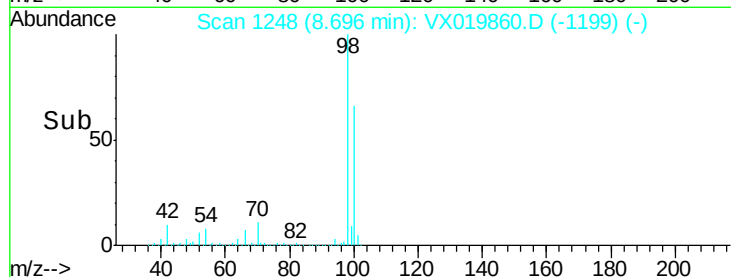
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 16.162 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VX019860.D

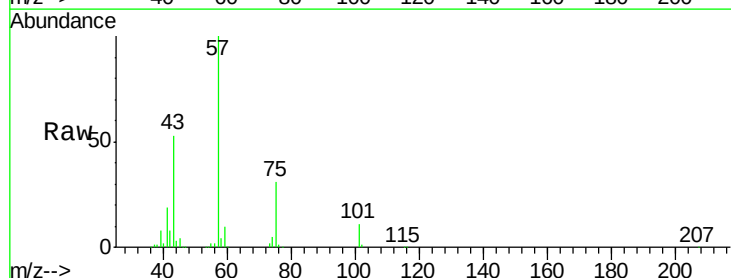
Acq: 11 Dec 2020 05:50

Tgt Ion: 43 Resp: 77798

Ion Ratio Lower Upper

43 100

58 10.1 35.4 53.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.59

50000

40000

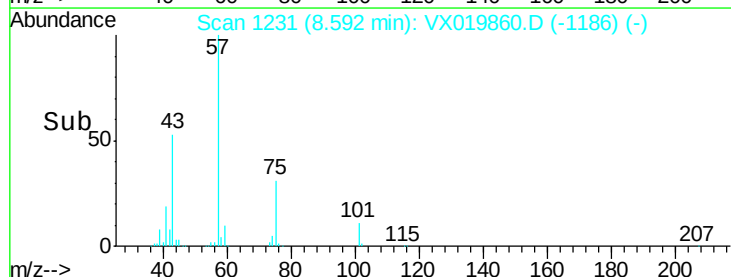
30000

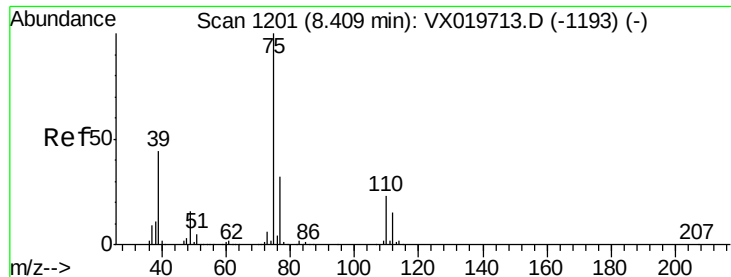
20000

10000

0

Time-->



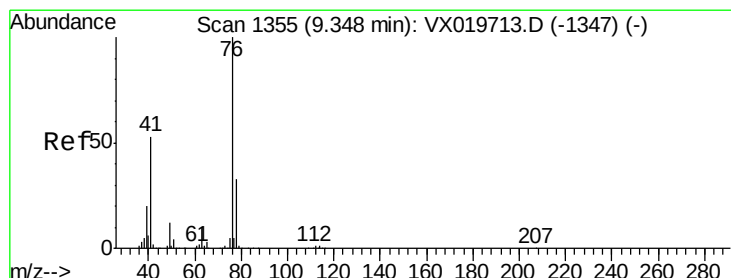
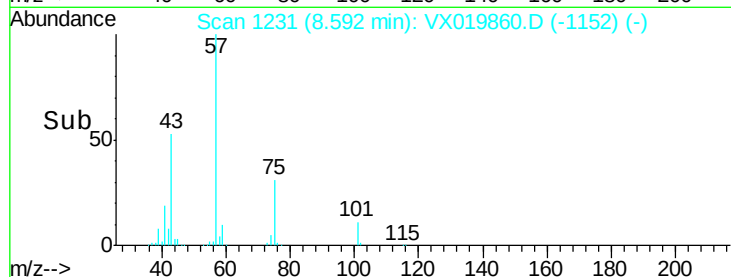
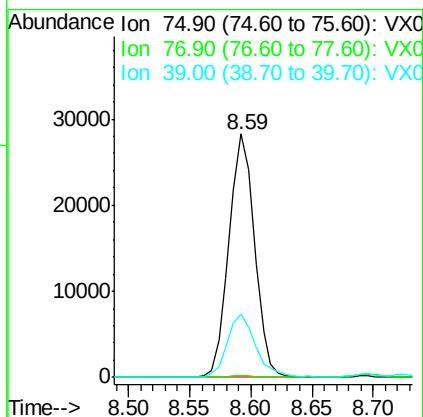
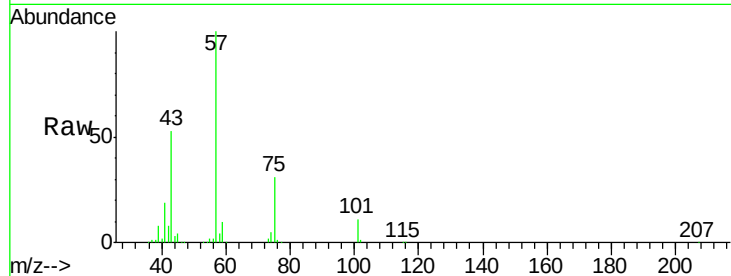


#54

cis-1,3-Dichloropropene
 Concen: 6.937 ug/l
 RT: 8.59 min Scan# 1231
 Delta R.T. 0.18 min
 Lab File: VX019860.D
 Acq: 11 Dec 2020 05:50

Instrument :
 MSVOA_X
 ClientSampleId :
 TR3-A-TOP

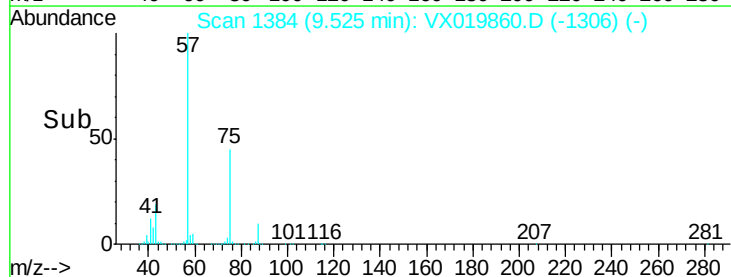
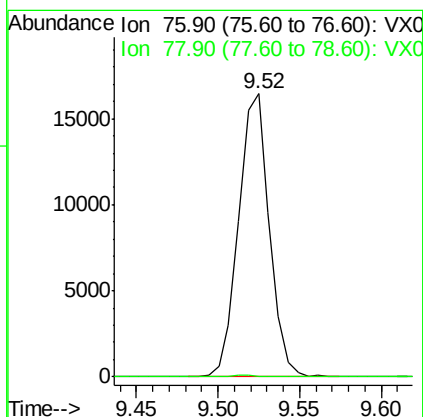
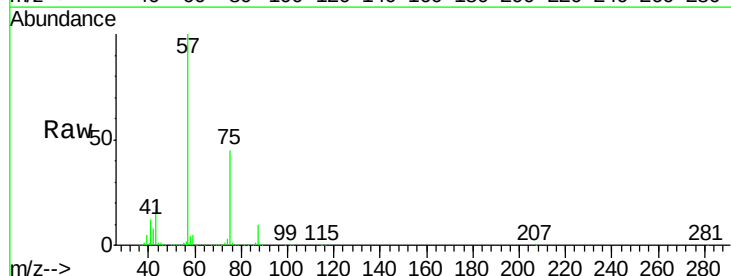
Tgt Ion: 75 Resp: 41097
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.7 38.5#
 39 25.7 35.1 52.7#

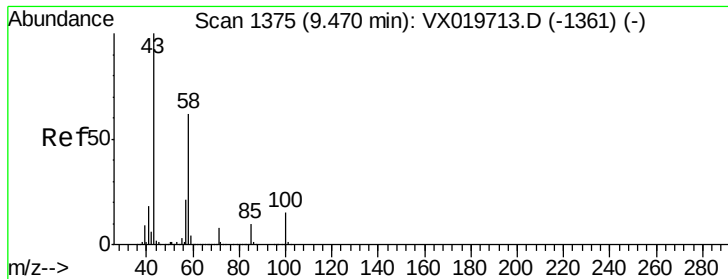


#57

1,3-Dichloropropane
 Concen: 3.419 ug/l
 RT: 9.52 min Scan# 1384
 Delta R.T. 0.18 min
 Lab File: VX019860.D
 Acq: 11 Dec 2020 05:50

Tgt Ion: 76 Resp: 21587
 Ion Ratio Lower Upper
 76 100
 78 0.5 26.2 39.2#

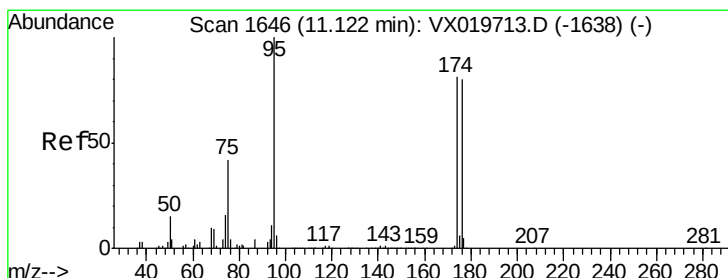
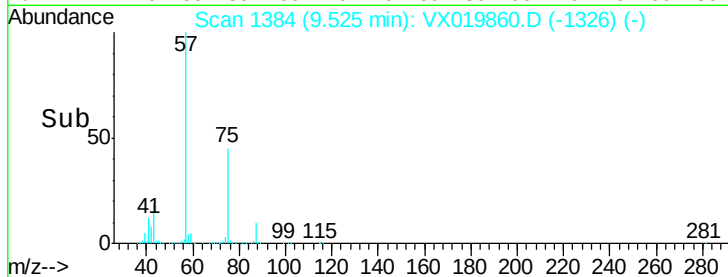
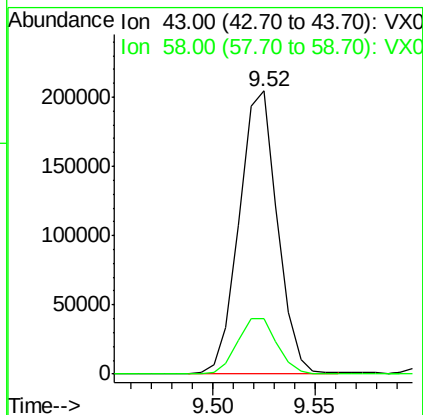
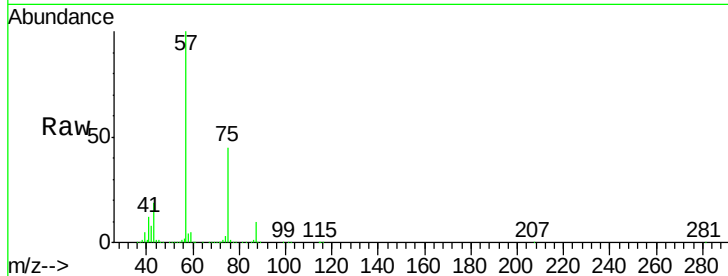




#59
2-Hexanone
Concen: 70.830 ug/l
RT: 9.52 min Scan# 1384
Delta R.T. 0.05 min
Lab File: VX019860.D
Acq: 11 Dec 2020 05:50

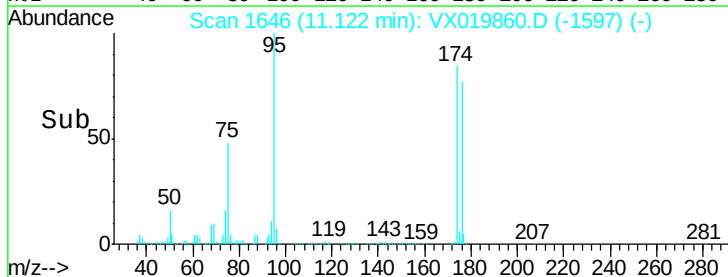
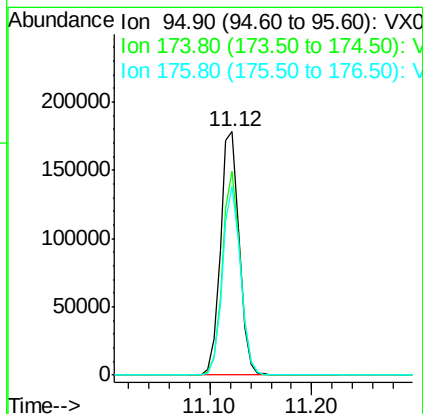
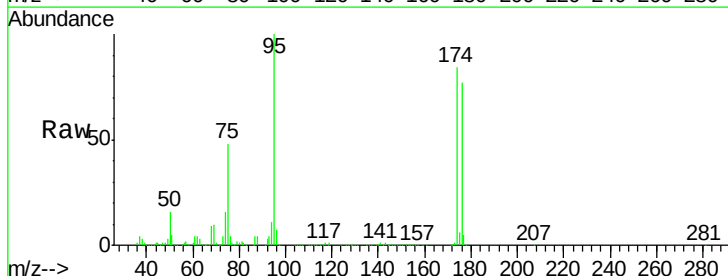
Instrument :
MSVOA_X
ClientSampleId :
TR3-A-TOP

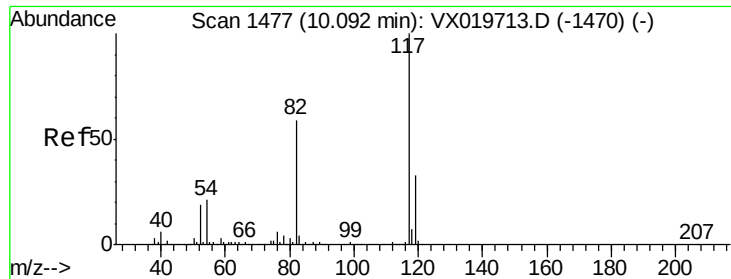
Tgt Ion: 43 Resp: 264281
Ion Ratio Lower Upper
43 100
58 20.6 30.9 92.8#



#62
4-Bromofluorobenzene
Concen: 46.037 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX019860.D
Acq: 11 Dec 2020 05:50

Tgt Ion: 95 Resp: 229799
Ion Ratio Lower Upper
95 100
174 79.3 0.0 154.6
176 74.3 0.0 155.8

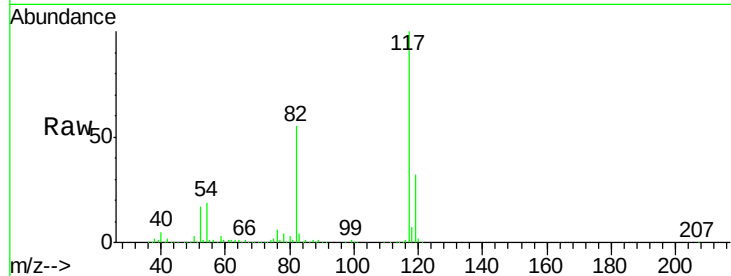




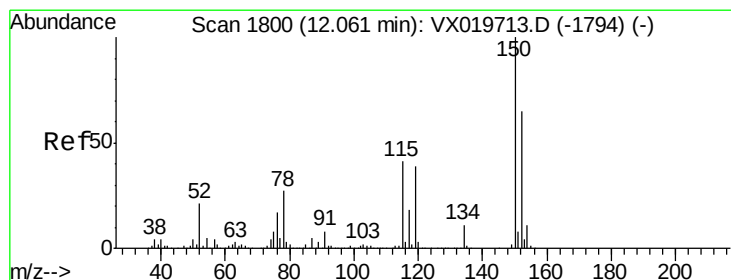
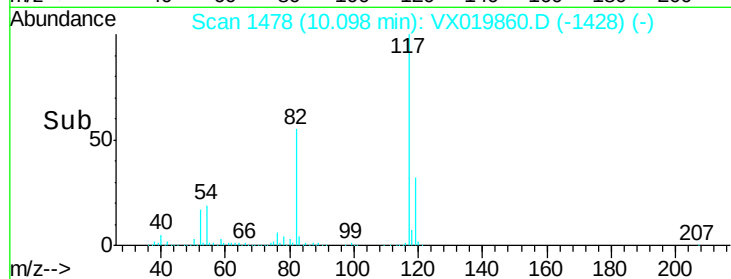
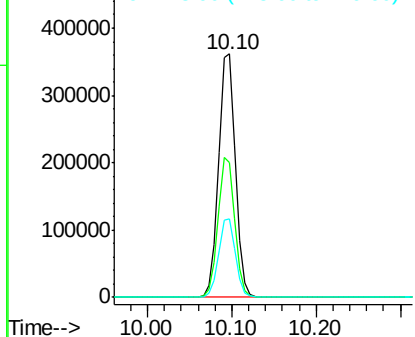
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.01 min
Lab File: VX019860.D
Acq: 11 Dec 2020 05:50

Instrument :
MSVOA_X
ClientSampleId :
TR3-A-TOP

Tgt Ion:117 Resp: 502503
Ion Ratio Lower Upper
117 100
82 55.1 47.4 71.2
119 32.4 26.6 39.8

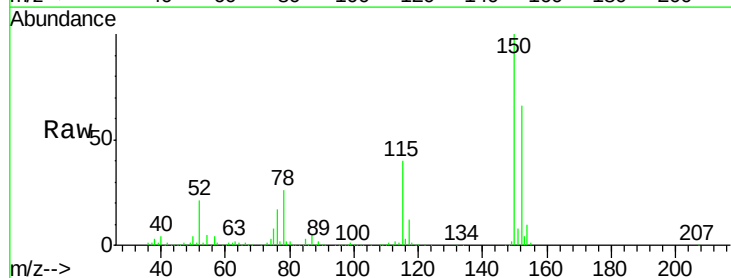


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

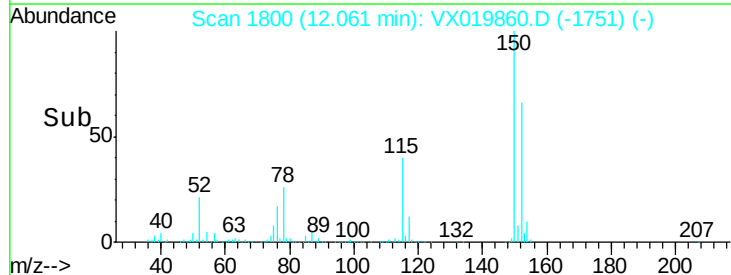
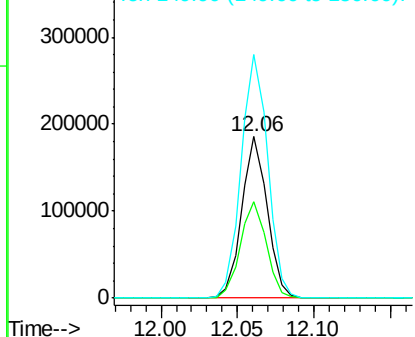


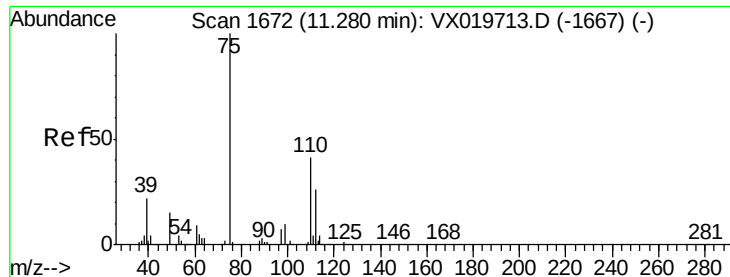
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX019860.D
Acq: 11 Dec 2020 05:50

Tgt Ion:152 Resp: 214801
Ion Ratio Lower Upper
152 100
115 60.9 41.1 123.3
150 157.1 0.0 349.0



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





#76

1,2,3-Trichloropropane

Concen: 23.270 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019860.D

Acq: 11 Dec 2020 05:50

Instrument :

MSVOA_X

ClientSampleId :

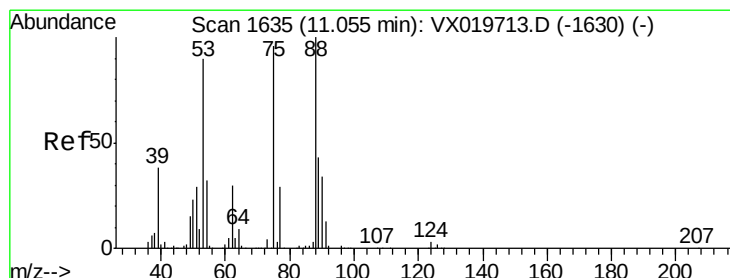
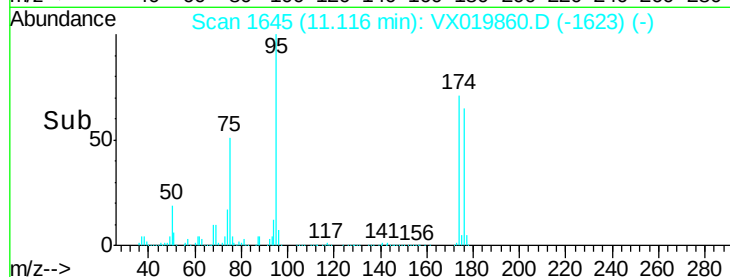
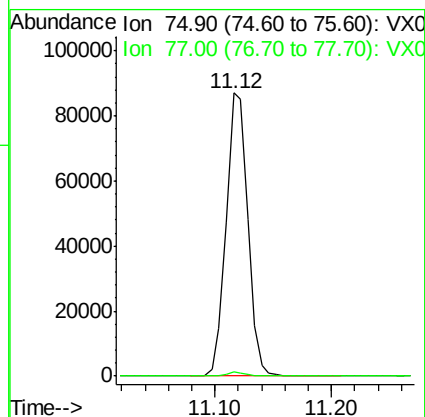
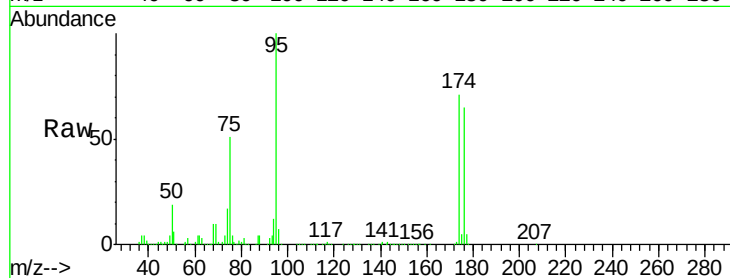
TR3-A-TOP

Tgt Ion: 75 Resp: 112105

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.269 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019860.D

Acq: 11 Dec 2020 05:50

Tgt Ion: 75 Resp: 112105

Ion Ratio Lower Upper

75 100

53 0.0 74.5 111.7#

89 0.0 37.9 56.9#

