

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041519\
 Data File : VX008962.D
 Acq On : 15 Apr 2019 15:59
 Operator : JC/SP
 Sample : K2385-07DL 4X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M-14-190410DL

Quant Time: Apr 16 03:23:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 02:27:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	272634	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	434944	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	380299	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	167514	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	174192	45.34	ug/l	0.00
Spiked Amount			Recovery	=	90.68%	
35) Dibromofluoromethane	5.50	113	129408	46.36	ug/l	0.00
Spiked Amount			Recovery	=	92.72%	
50) Toluene-d8	8.71	98	538974	48.42	ug/l	0.00
Spiked Amount			Recovery	=	96.84%	
62) 4-Bromofluorobenzene	11.13	95	183346	46.66	ug/l	0.00
Spiked Amount			Recovery	=	93.32%	

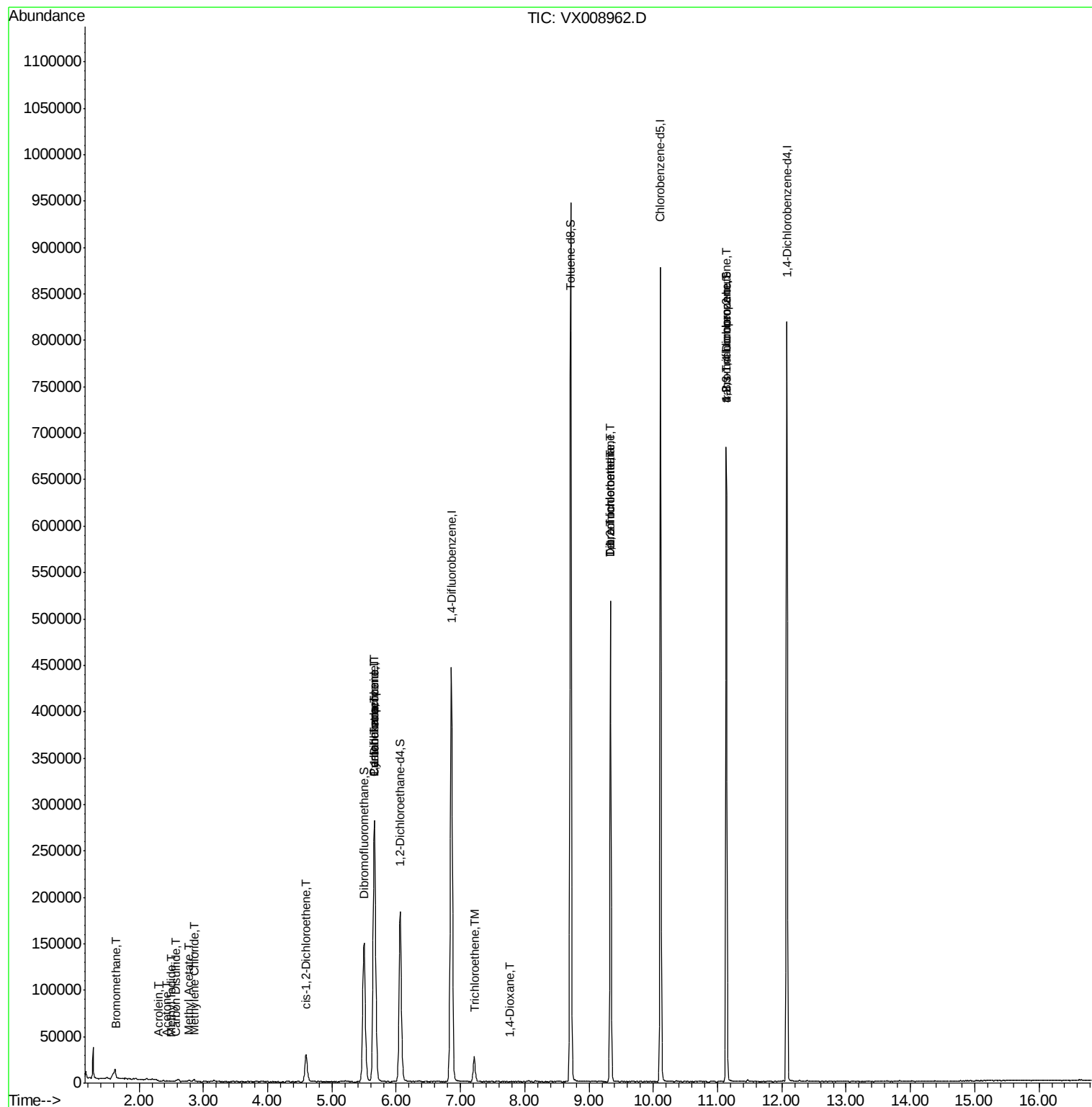
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	684	4.117	ug/l	99
10) Methyl Iodide	2.51	142	580	4.587	ug/l #	88
13) Acrolein	2.30	56	178	0.242	ug/l #	52
16) Acetone	2.44	43	615	0.309	ug/l #	67
17) Carbon Disulfide	2.57	76	1452	1.417	ug/l	97
18) Methyl Acetate	2.78	43	2904	0.584	ug/l	95
20) Methylene Chloride	2.85	84	886	0.260	ug/l #	90
27) cis-1,2-Dichloroethene	4.60	96	17865	5.046	ug/l	91
28) Bromochloromethane	5.01	49	76	Below Cal	#	21
31) Cyclohexane	5.67	56	6227	1.018	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	21848	4.857	ug/l #	50
38) Carbon Tetrachloride	5.66	117	25493	6.685	ug/l #	18
44) Trichloroethene	7.21	130	10324	3.175	ug/l	96
49) 1,4-Dioxane	7.77	88	46	0.533	ug/l #	1
55) 1,1,2-Trichloroethane	9.34	97	832	0.264	ug/l #	1
60) Dibromochloromethane	9.34	129	93278	30.877	ug/l #	10
64) Tetrachloroethene	9.34	164	99039	34.281	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	93061	22.751	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	93061	58.409	ug/l #	11

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

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M-14-190410DL

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008962.D

Acq: 15 Apr 2019 15:59

Instrument :

MSVOA_X

ClientSampleId :

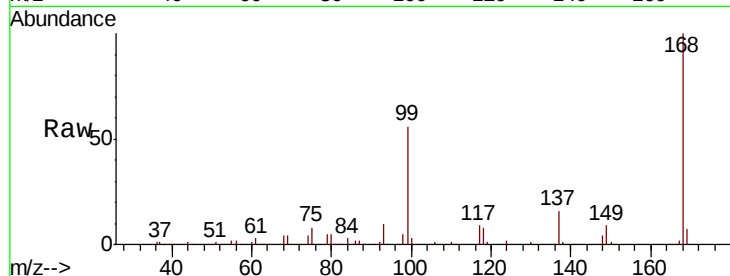
M-14-190410DL

Tot Ion:168 Resp: 272634

Ion Ratio Lower Upper

168 100

99 55.6 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

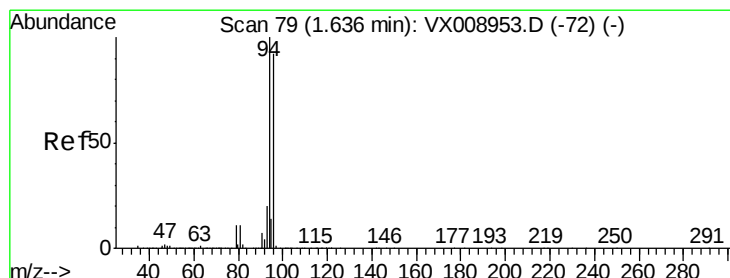
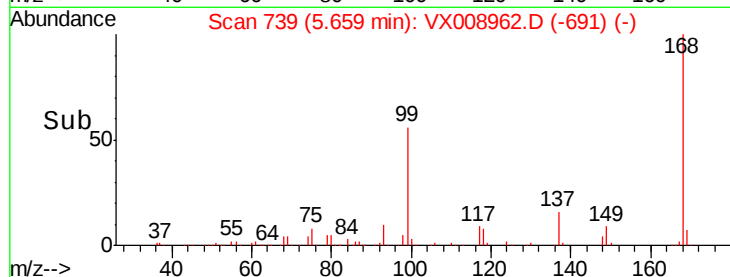
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 4.117 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008962.D

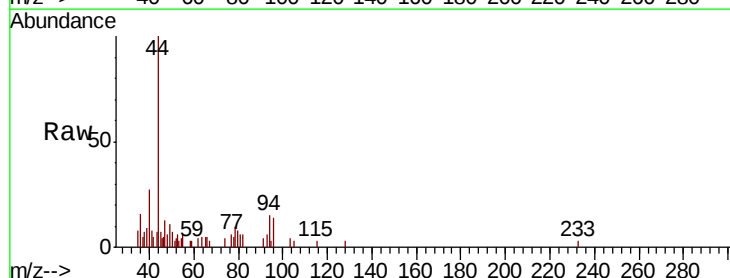
Acq: 15 Apr 2019 15:59

Tgt Ion: 94 Resp: 684

Ion Ratio Lower Upper

94 100

96 93.1 73.9 110.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

400

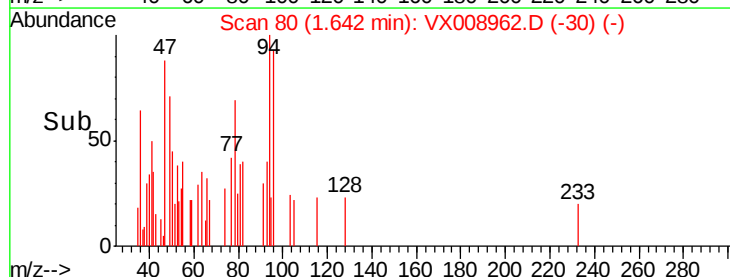
300

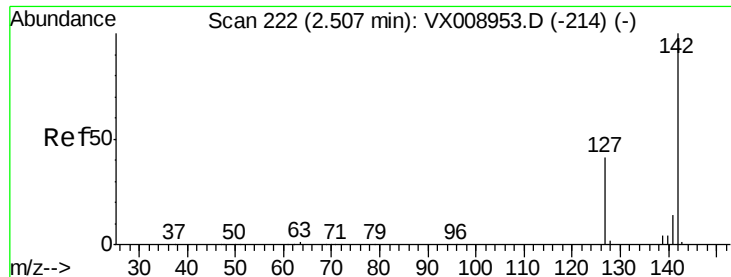
200

100

0

Time--> 1.60 1.65 1.70

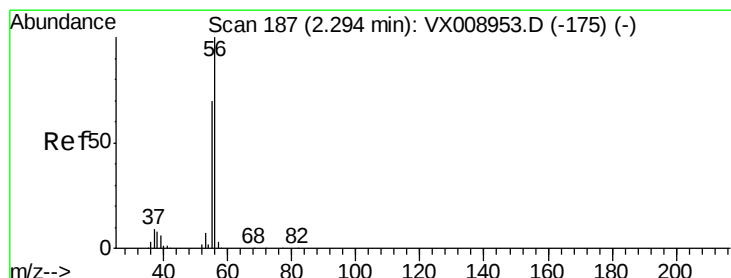
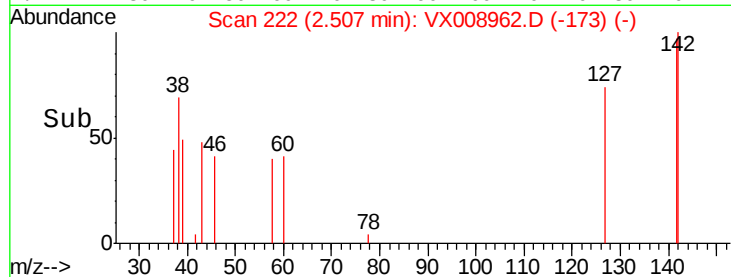
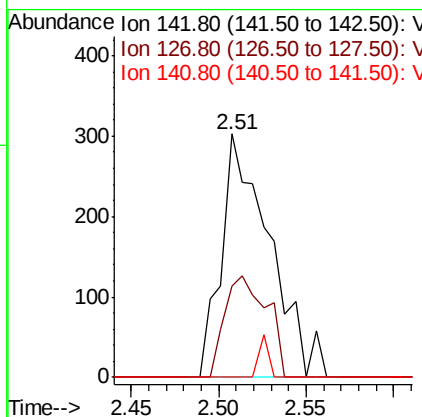
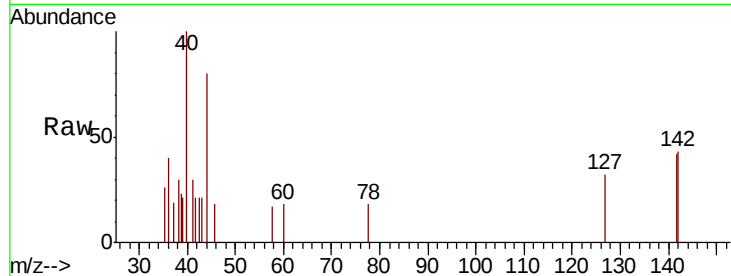




#10
Methvl Iodide
Concen: 4.587 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX008962.D
Acq: 15 Apr 2019 15:59

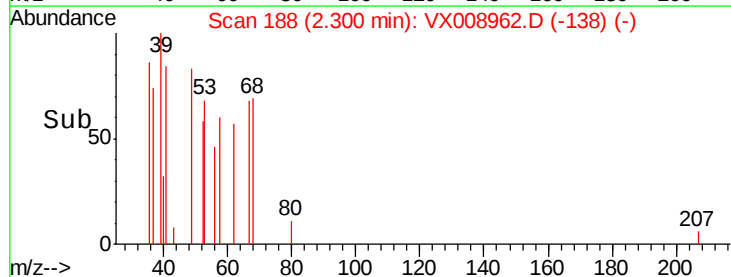
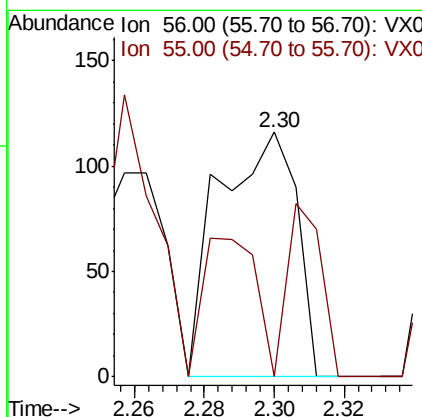
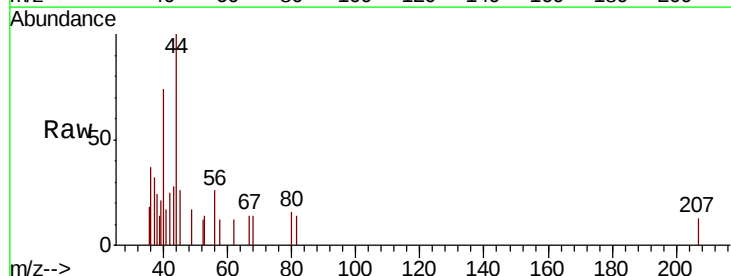
Instrument :
MSVOA_X
ClientSampleId :
M-14-190410DL

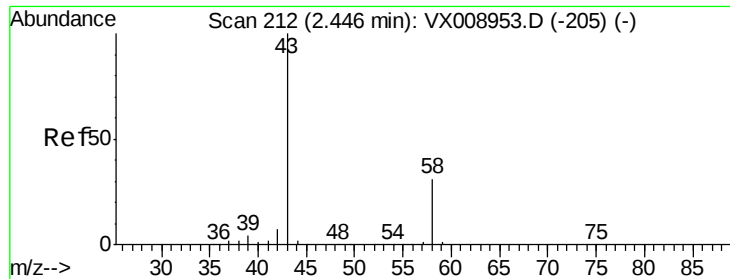
Tot Ion:142 Resp: 580
Ion Ratio Lower Upper
142 100
127 36.6 32.8 49.2
141 3.3 11.4 17.2#



#13
Acrolein
Concen: 0.242 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX008962.D
Acq: 15 Apr 2019 15:59

Tgt Ion: 56 Resp: 178
Ion Ratio Lower Upper
56 100
55 31.5 56.6 84.8#





#16

Acetone

Concen: 0.309 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008962.D

Acq: 15 Apr 2019 15:59

Instrument :

MSVOA_X

ClientSampleId :

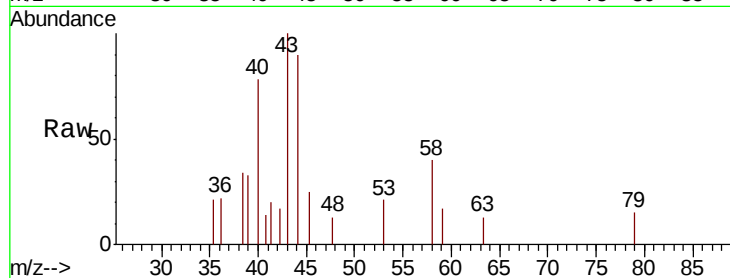
M-14-190410DL

Tot Ion: 43 Resp: 615

Ion Ratio Lower Upper

43 100

58 48.9 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

400

300

200

100

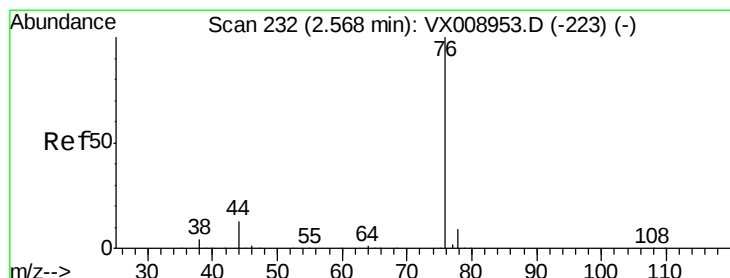
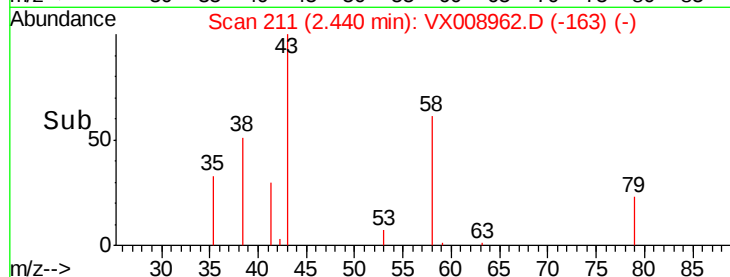
0

2.40

2.45

2.50

Time-->



#17

Carbon Disulfide

Concen: 1.417 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008962.D

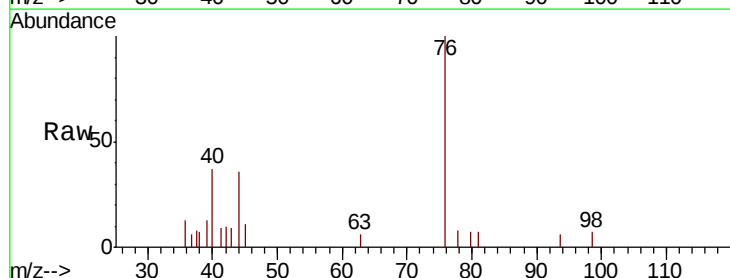
Acq: 15 Apr 2019 15:59

Tgt Ion: 76 Resp: 1452

Ion Ratio Lower Upper

76 100

78 8.0 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

1000

800

600

400

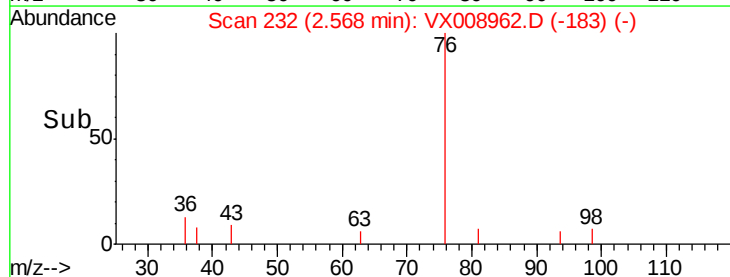
200

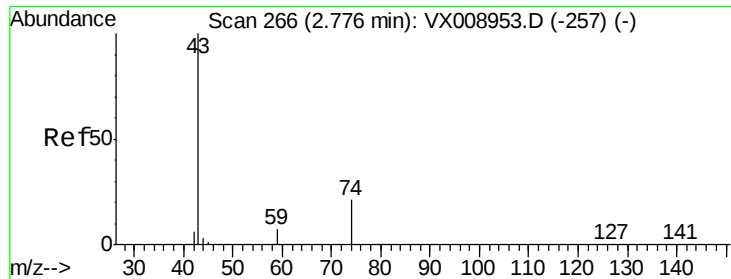
0

2.55

2.60

Time-->

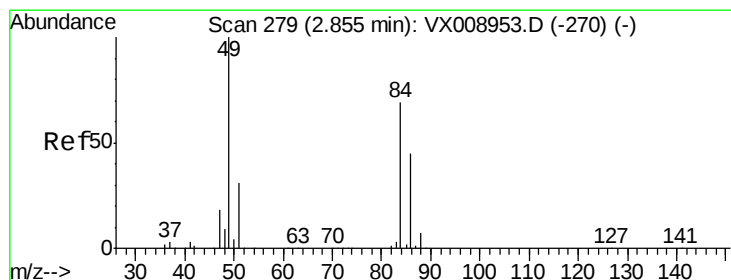
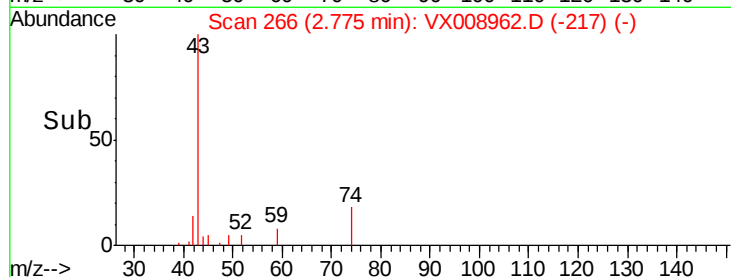
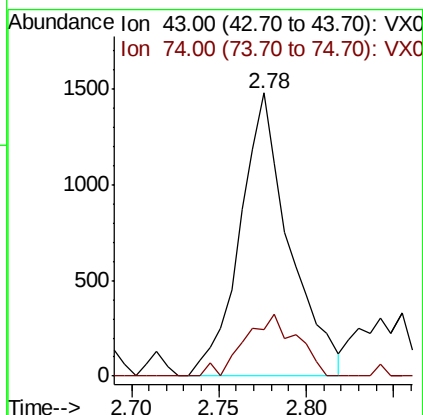
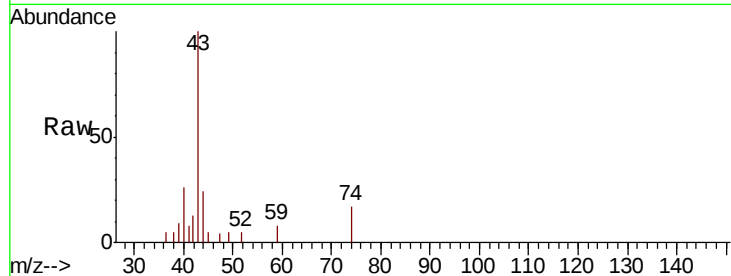




#18
Methvl Acetate
Concen: 0.584 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX008962.D
Acq: 15 Apr 2019 15:59

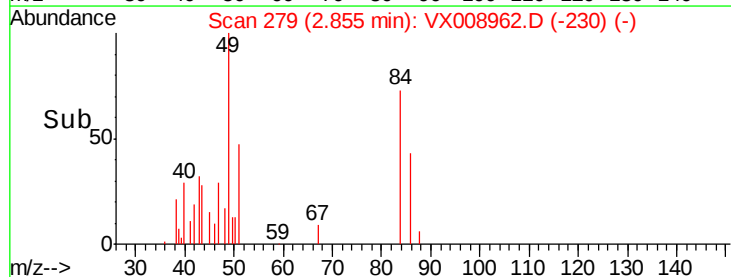
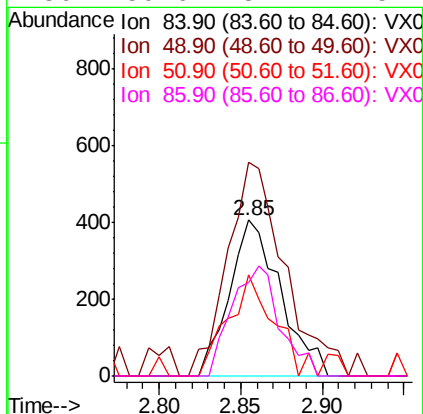
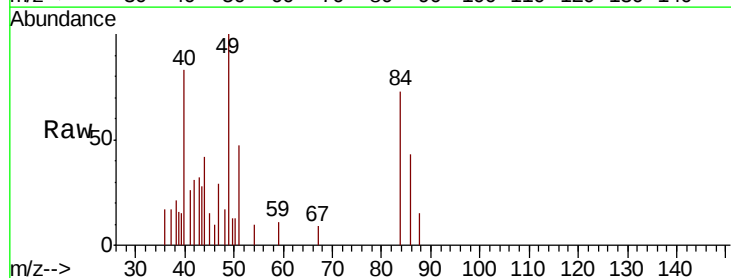
Instrument :
MSVOA_X
ClientSampleId :
M-14-190410DL

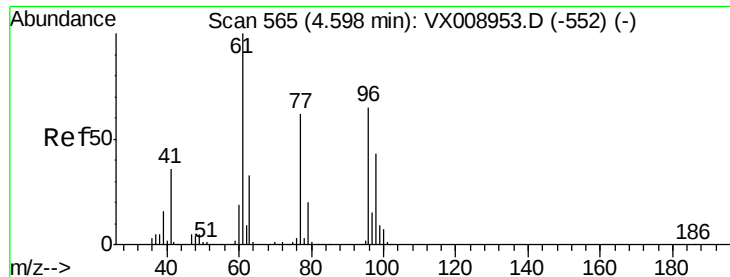
Tot Ion: 43 Resp: 2904
Ion Ratio Lower Upper
43 100
74 23.1 16.6 25.0



#20
Methylene Chloride
Concen: 0.260 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX008962.D
Acq: 15 Apr 2019 15:59

Tgt Ion: 84 Resp: 886
Ion Ratio Lower Upper
84 100
49 137.2 115.4 173.0
51 64.5 35.8 53.6#
86 59.6 52.1 78.1



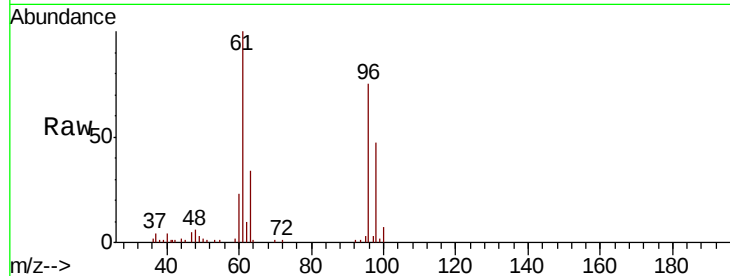


#27

cis-1,2-Dichloroethene
 Concen: 5.046 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. -0.00 min
 Lab File: VX008962.D
 Acq: 15 Apr 2019 15:59

Instrument :
 MSVOA_X
 ClientSampleId :
 M-14-190410DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	145.3	0.0	322.0
98	66.1	0.0	128.4

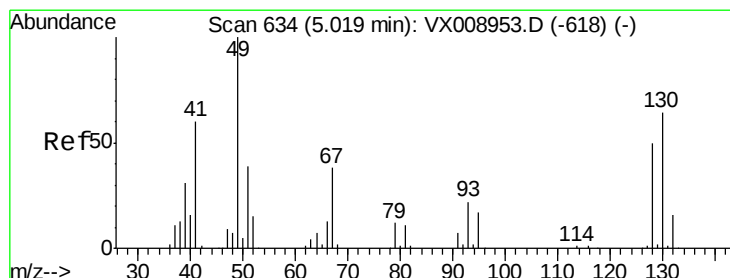
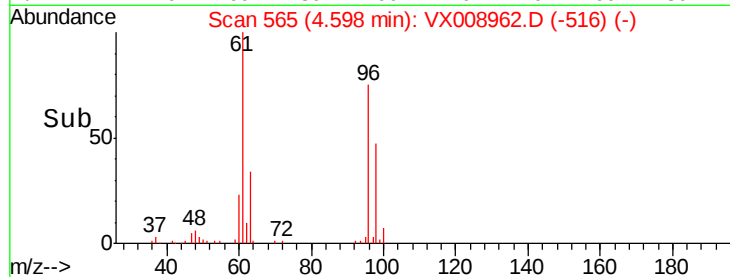
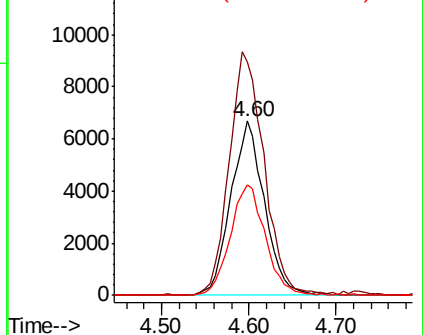


Abundance

Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

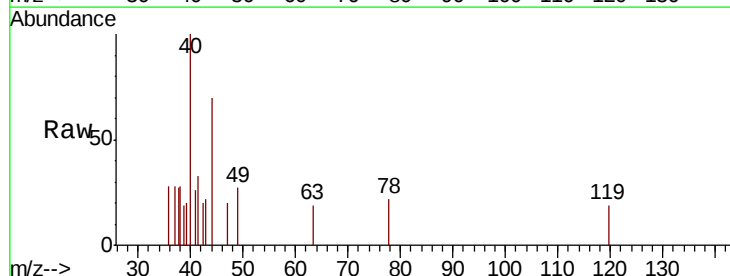
Ion 97.90 (97.60 to 98.60): VX0



#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.01 min Scan# 632
 Delta R.T. -0.01 min
 Lab File: VX008962.D
 Acq: 15 Apr 2019 15:59

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	50.4	75.6#

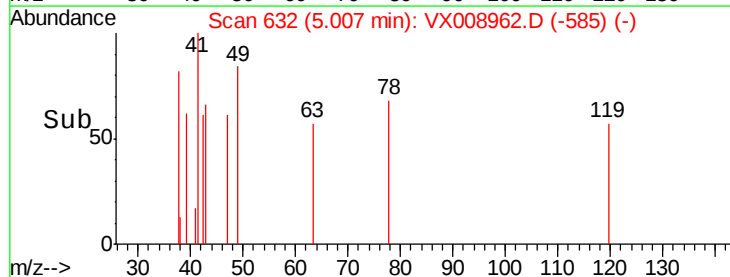
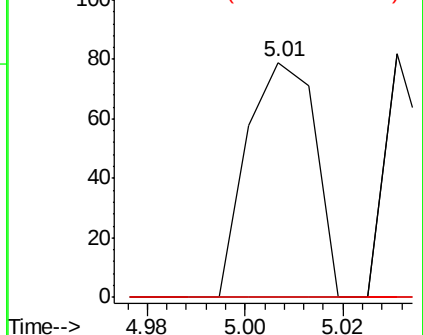


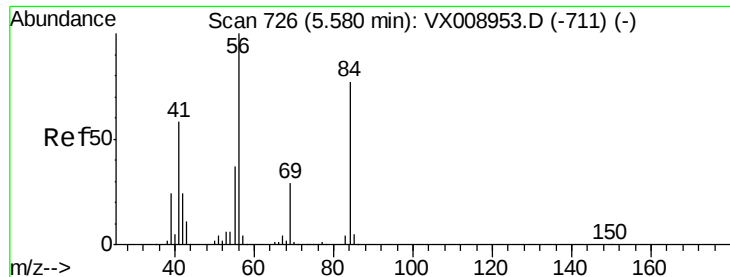
Abundance

Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

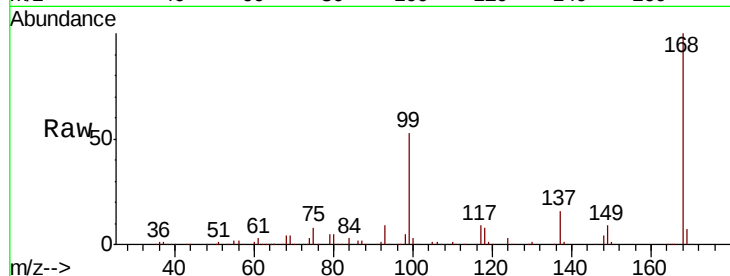




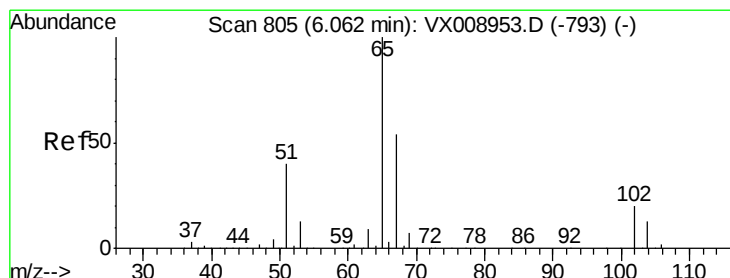
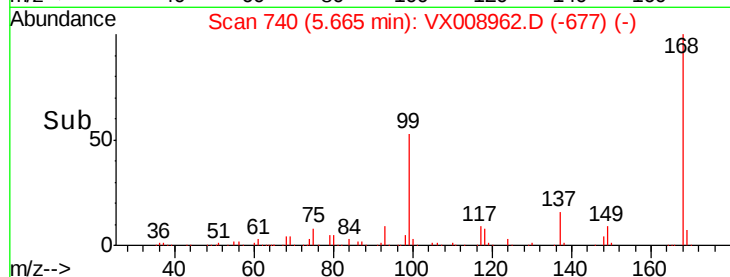
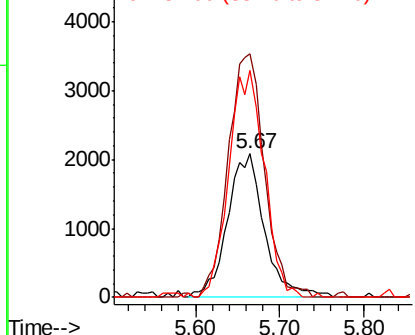
#31
Cyclohexane
Concen: 1.018 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008962.D
Acq: 15 Apr 2019 15:59

Instrument :
MSVOA_X
ClientSampleId :
M-14-190410DL

Tot Ion: 56 Resp: 6227
Ion Ratio Lower Upper
56 100
69 166.5 23.3 34.9#
84 158.3 61.7 92.5#

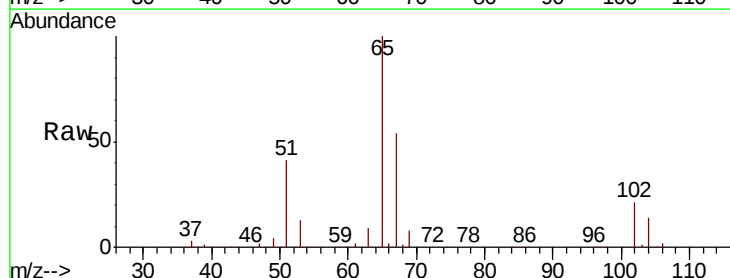


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

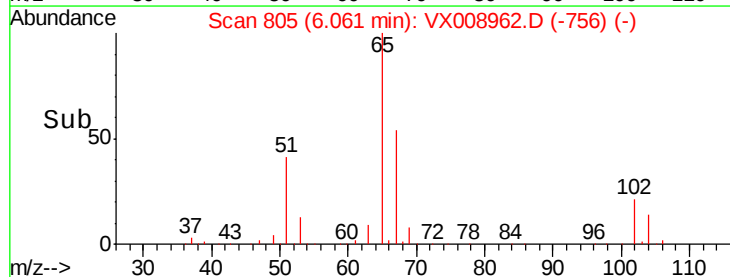
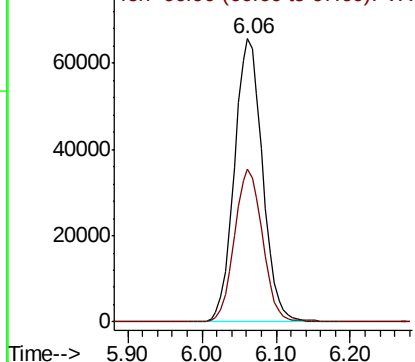


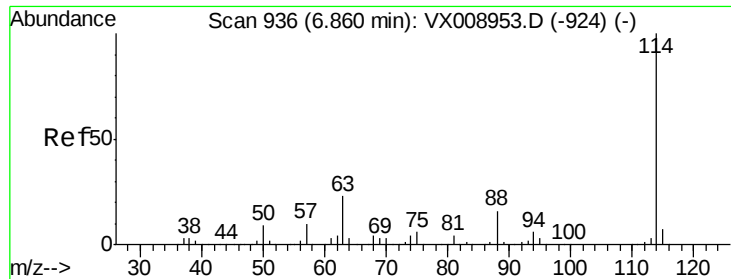
#33
1,2-Dichloroethane-d4
Concen: 45.337 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX008962.D
Acq: 15 Apr 2019 15:59

Tgt Ion: 65 Resp: 174192
Ion Ratio Lower Upper
65 100
67 54.1 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

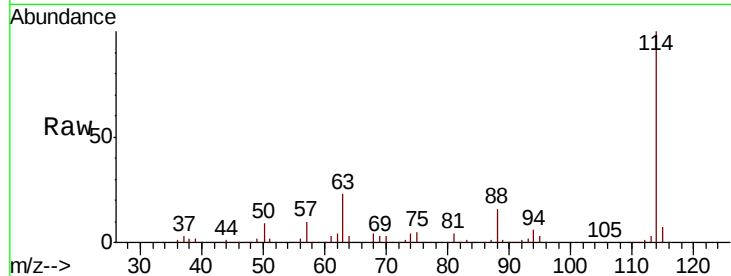




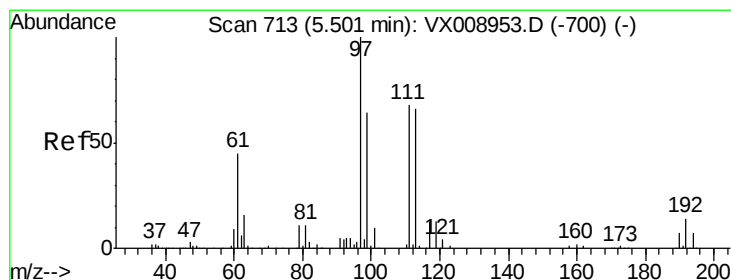
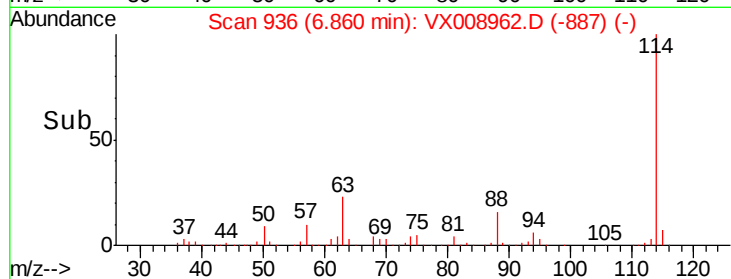
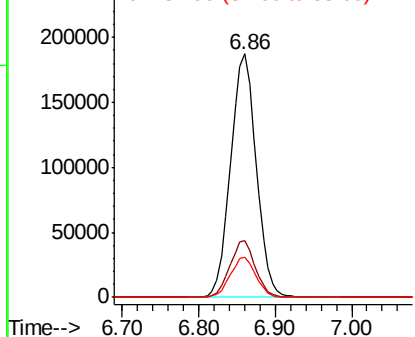
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008962.D
 Acq: 15 Apr 2019 15:59

Instrument :
 MSVOA_X
 ClientSampleId :
 M-14-190410DL

Tot Ion:114 Resp: 434944
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 46.0
 88 16.5 0.0 32.6

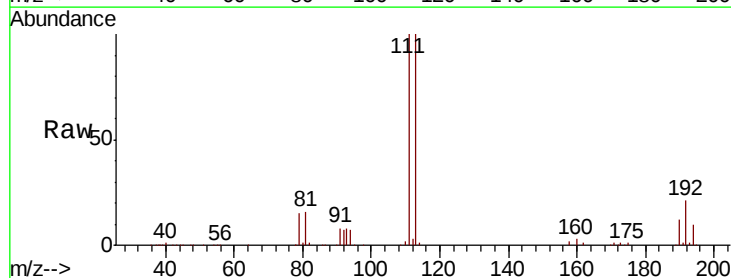


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

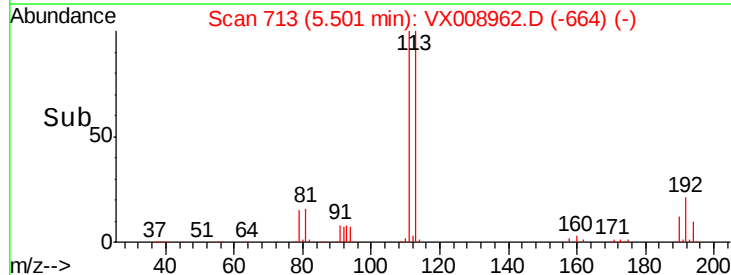
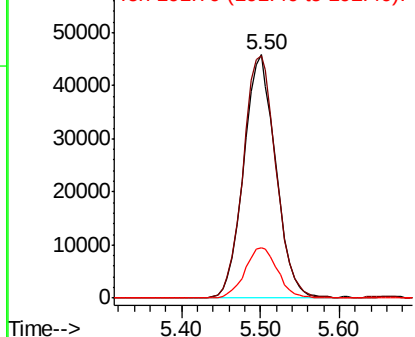


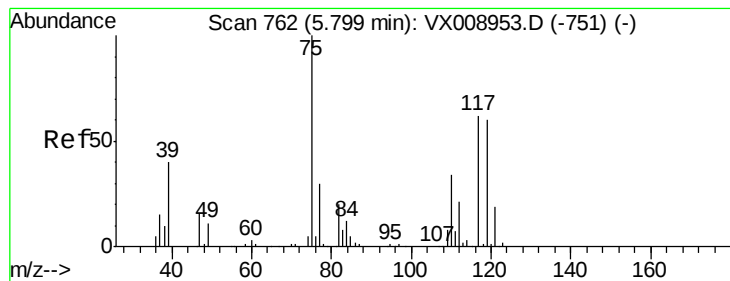
#35
 Dibromofluoromethane
 Concen: 46.360 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008962.D
 Acq: 15 Apr 2019 15:59

Tgt Ion:113 Resp: 129408
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.9 124.3
 192 21.2 17.4 26.0



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: 4.857 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008962.D

Acq: 15 Apr 2019 15:59

Instrument :

MSVOA_X

ClientSampleId :

M-14-190410DL

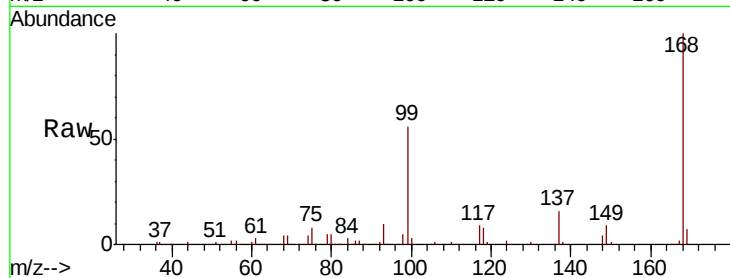
Tot Ion: 75 Resp: 21848

Ion Ratio Lower Upper

75 100

110 8.2 16.9 50.7#

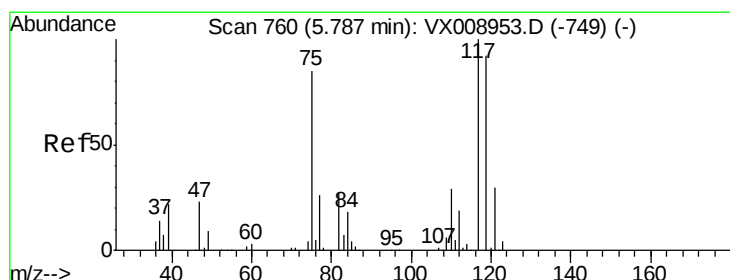
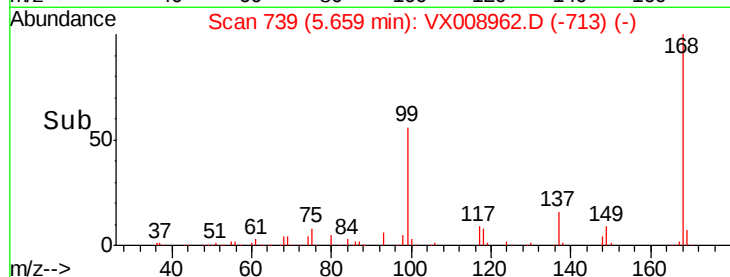
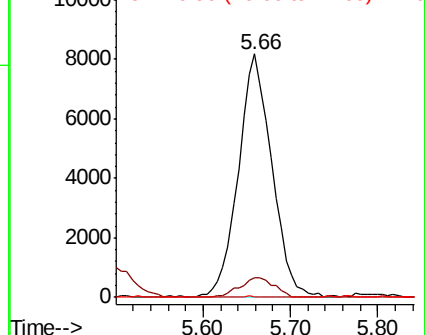
77 0.1 25.0 37.4#



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: 6.685 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008962.D

Acq: 15 Apr 2019 15:59

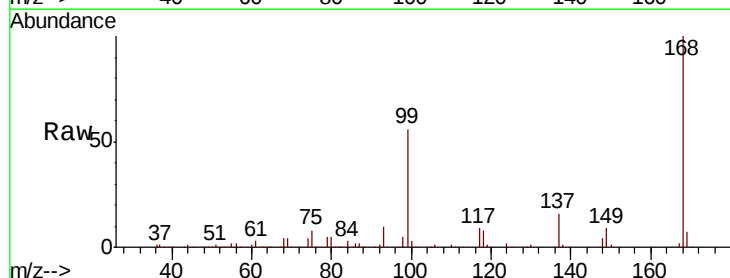
Tgt Ion: 117 Resp: 25493

Ion Ratio Lower Upper

117 100

119 5.5 73.8 110.8#

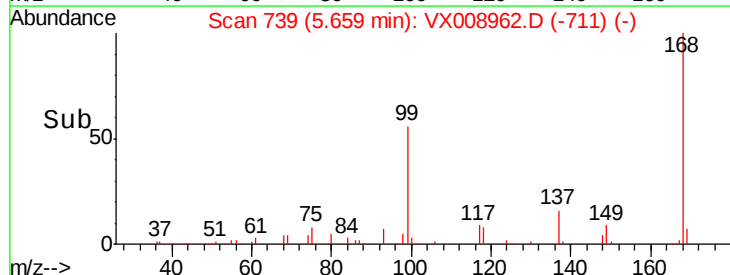
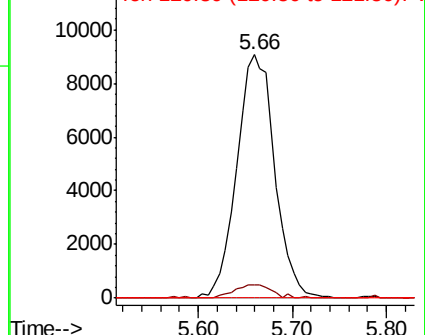
121 0.0 23.6 35.4#

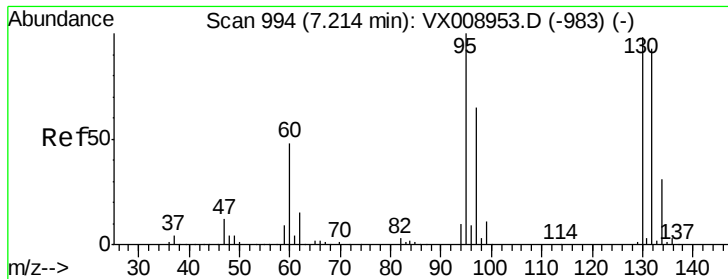


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#44

Trichloroethene

Concen: 3.175 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX008962.D

Acq: 15 Apr 2019 15:59

Instrument :

MSVOA_X

ClientSampleId :

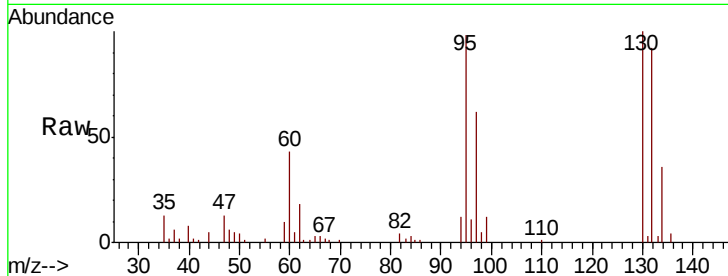
M-14-190410DL

Tot Ion:130 Resp: 10324

Ion Ratio Lower Upper

130 100

95 97.8 0.0 203.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

5000

4000

3000

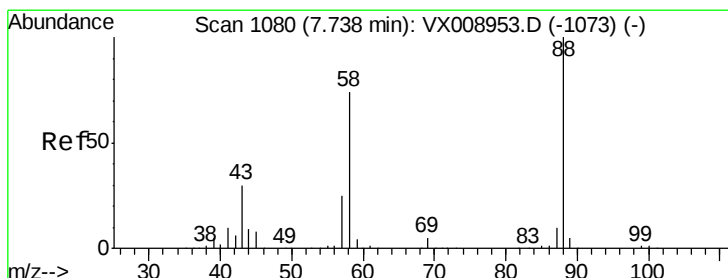
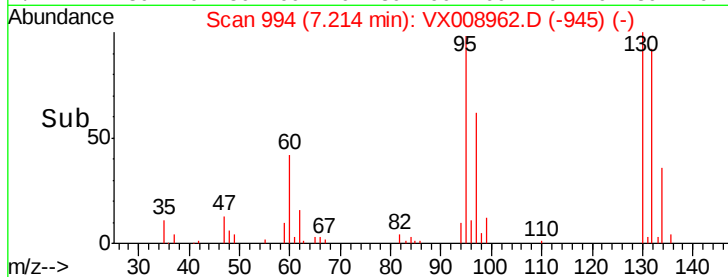
2000

1000

0

7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: 0.533 ug/l

RT: 7.77 min Scan# 1085

Delta R.T. 0.03 min

Lab File: VX008962.D

Acq: 15 Apr 2019 15:59

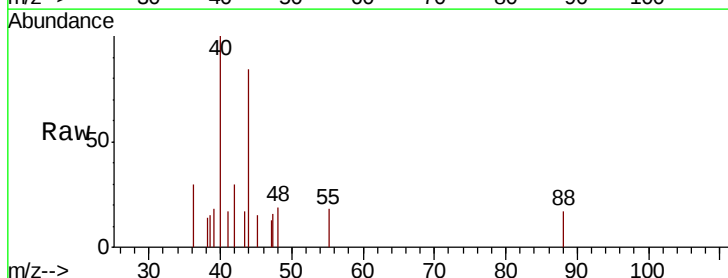
Tgt Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 217.4 29.3 43.9#

58 43.5 62.6 93.8#



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

7.77

100

80

60

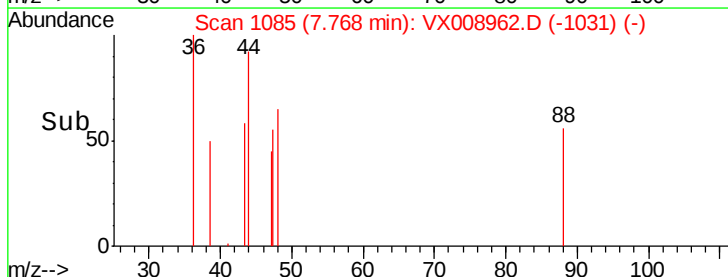
40

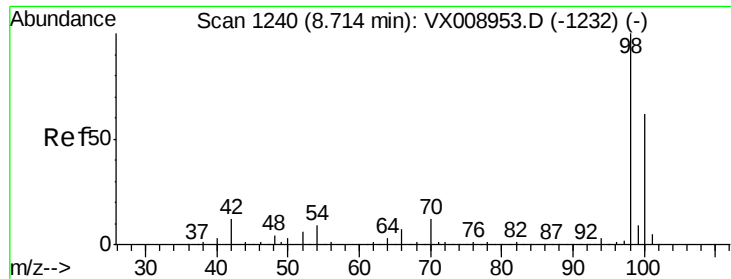
20

0

7.75 7.76 7.77 7.78

Time-->





#50

Toluene-d8

Concen: 48.416 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008962.D

Acq: 15 Apr 2019 15:59

Instrument :

MSVOA_X

ClientSampleId :

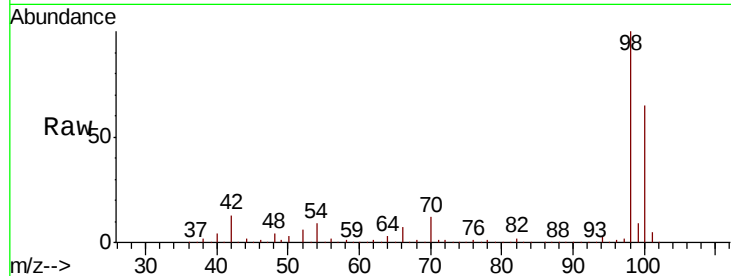
M-14-190410DL

Tot Ion: 98 Resp: 538974

Ion Ratio Lower Upper

98 100

100 64.8 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

400000

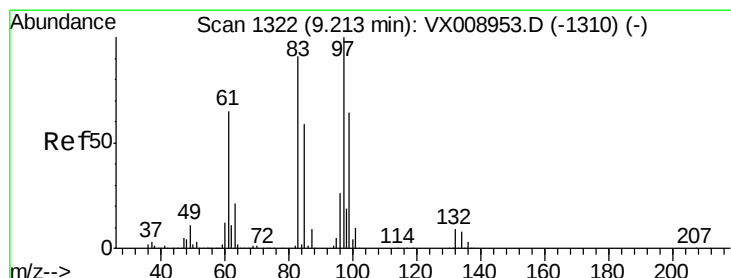
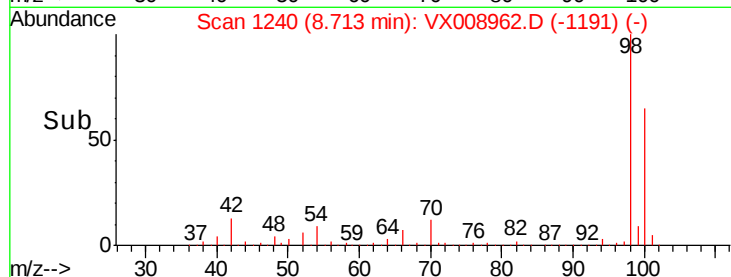
300000

200000

100000

0

Time-->



#55

1,1,2-Trichloroethane

Concen: 0.264 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.12 min

Lab File: VX008962.D

Acq: 15 Apr 2019 15:59

Tgt Ion: 97 Resp: 832

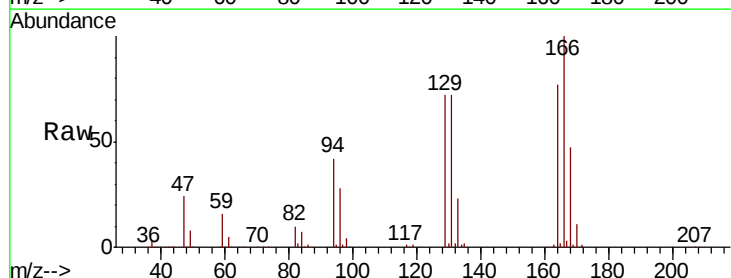
Ion Ratio Lower Upper

97 100

83 324.5 72.6 108.8#

85 33.4 46.9 70.3#

99 24.8 51.0 76.6#



Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

2500

2000

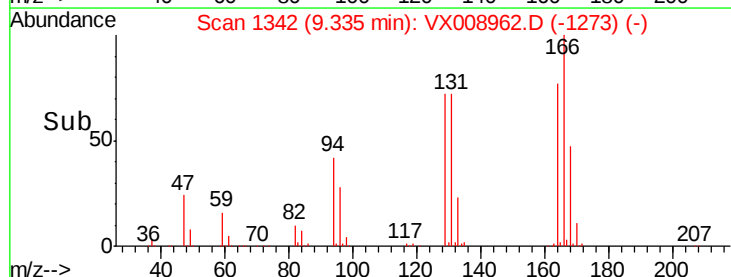
1500

1000

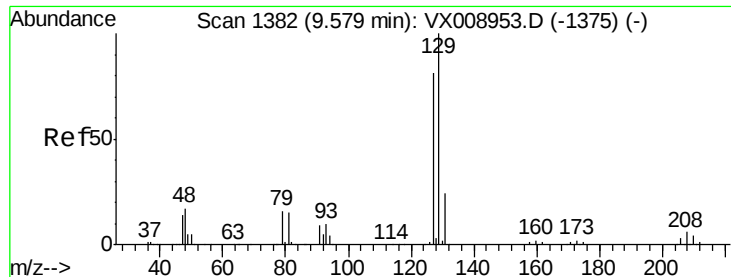
500

0

Time-->



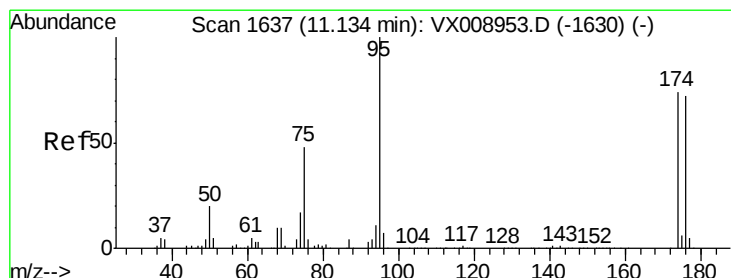
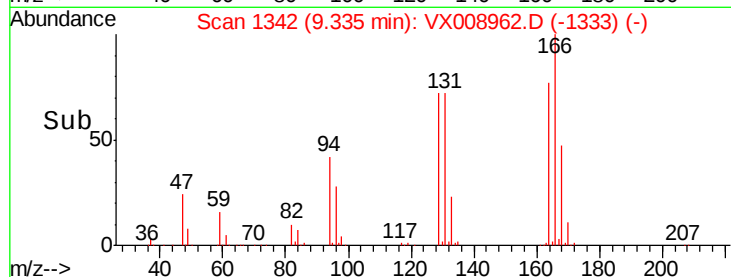
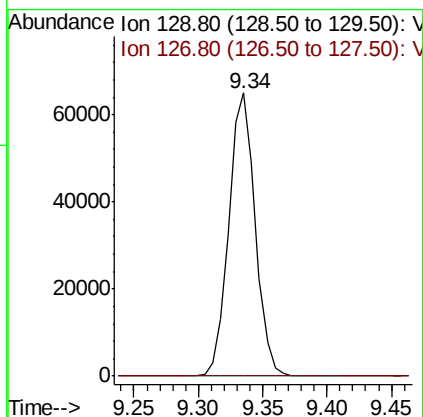
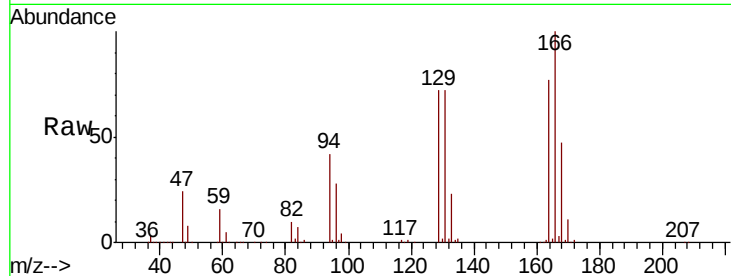
Time-->



#60
Dibromochloromethane
Concen: 30.877 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX008962.D
Acq: 15 Apr 2019 15:59

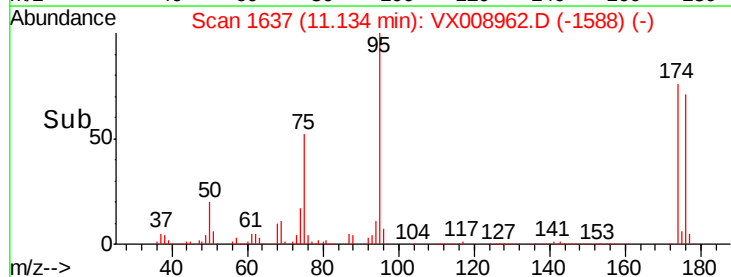
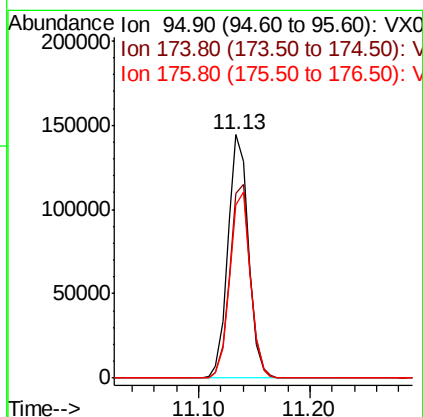
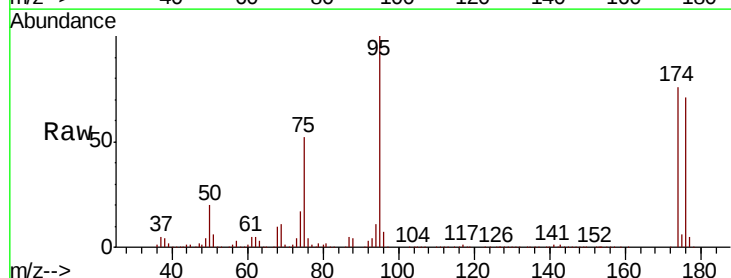
Instrument :
MSVOA_X
ClientSampleId :
M-14-190410DL

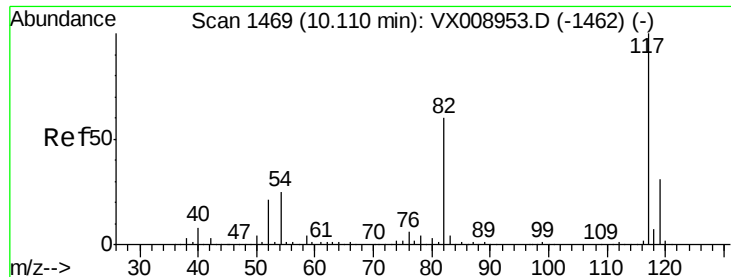
Tot Ion:129 Resp: 93278
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.2#



#62
4-Bromofluorobenzene
Concen: 46.657 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008962.D
Acq: 15 Apr 2019 15:59

Tgt Ion: 95 Resp: 183346
Ion Ratio Lower Upper
95 100
174 80.2 0.0 159.6
176 76.9 0.0 154.8

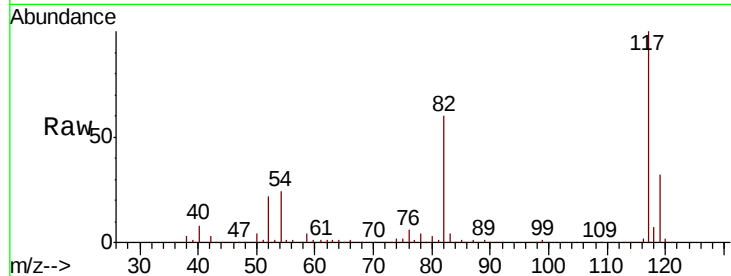




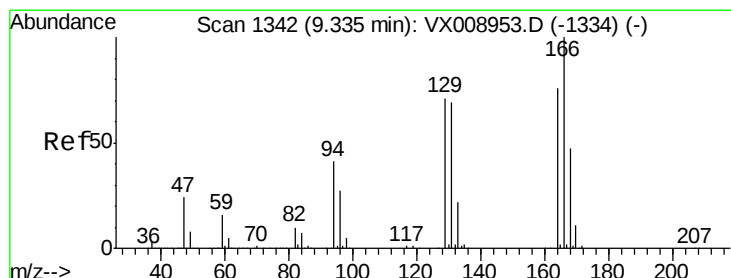
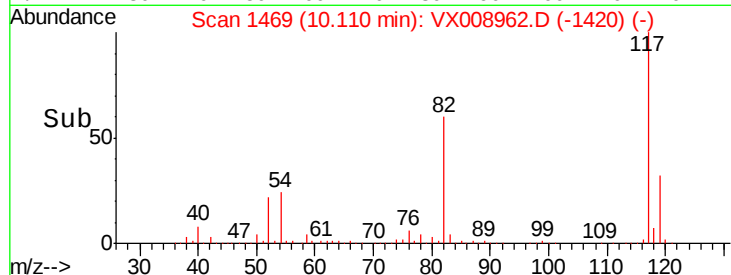
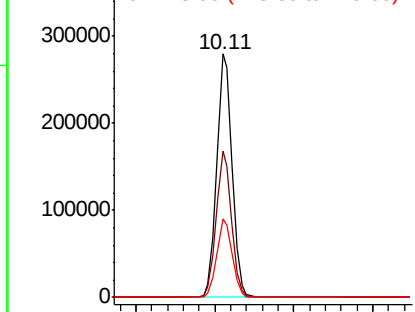
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008962.D
Acq: 15 Apr 2019 15:59

Instrument :
MSVOA_X
ClientSampleId :
M-14-190410DL

Tot Ion:117 Resp: 380299
Ion Ratio Lower Upper
117 100
82 60.1 48.2 72.4
119 32.0 25.0 37.6

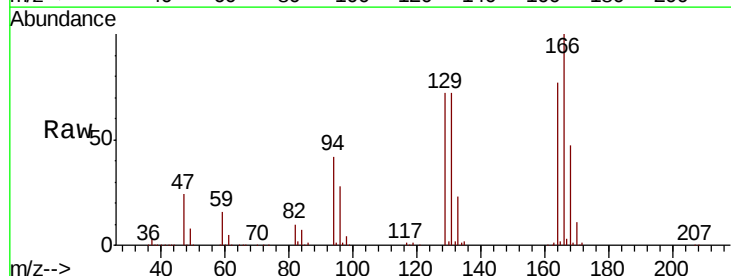


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

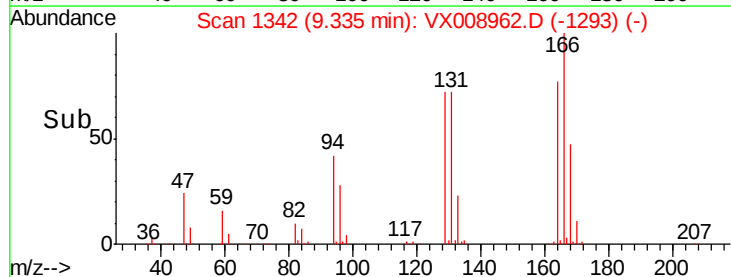
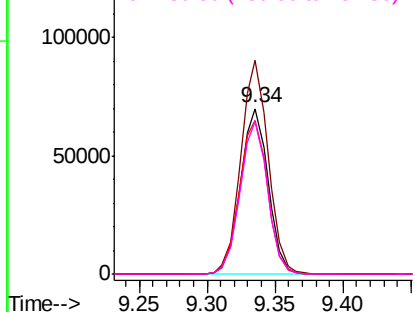


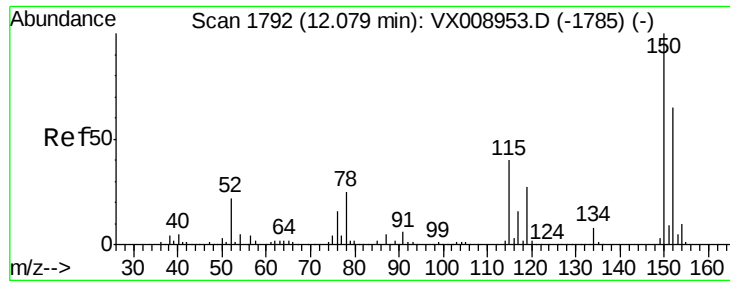
#64
Tetrachloroethene
Concen: 34.281 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX008962.D
Acq: 15 Apr 2019 15:59

Tgt Ion:164 Resp: 99039
Ion Ratio Lower Upper
164 100
166 129.2 105.0 157.4
129 92.9 74.2 111.4
131 92.4 72.2 108.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX008962.D

Acq: 15 Apr 2019 15:59

Instrument :

MSVOA_X

ClientSampled :

M-14-190410DL

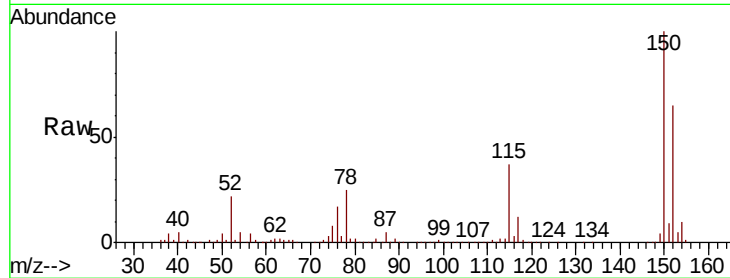
Tot Ion:152 Resp: 167514

Ion Ratio Lower Upper

152 100

115 58.7 41.4 124.2

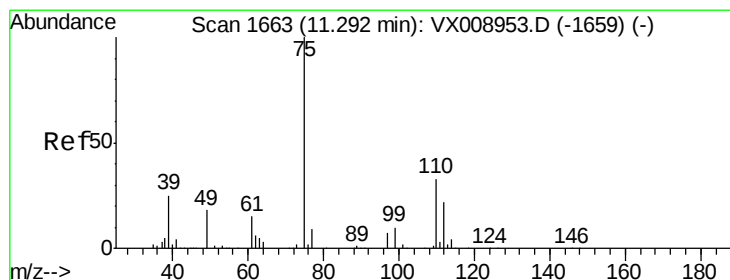
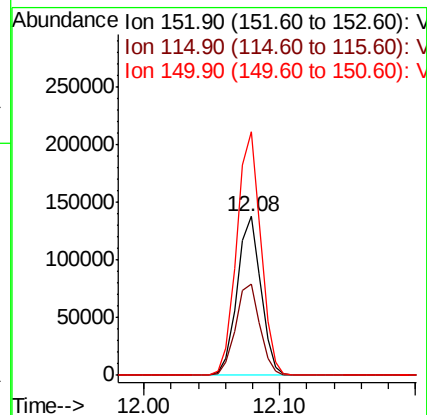
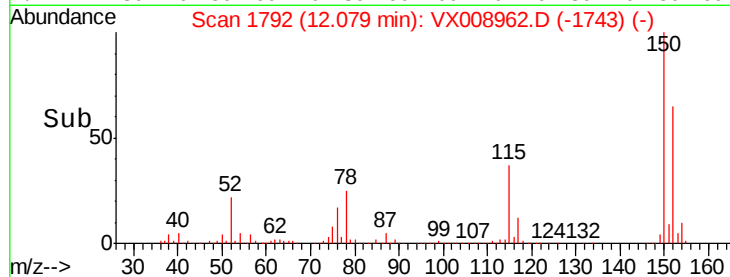
150 155.8 0.0 349.8



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: 22.751 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008962.D

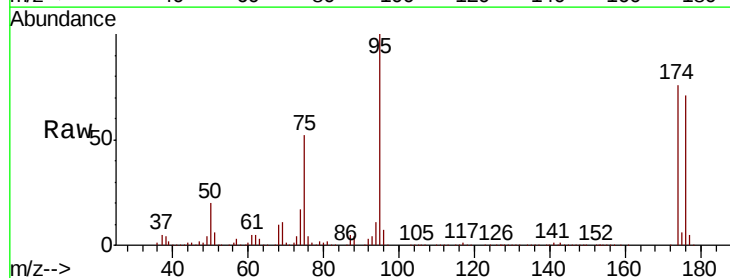
Acq: 15 Apr 2019 15:59

Tgt Ion: 75 Resp: 93061

Ion Ratio Lower Upper

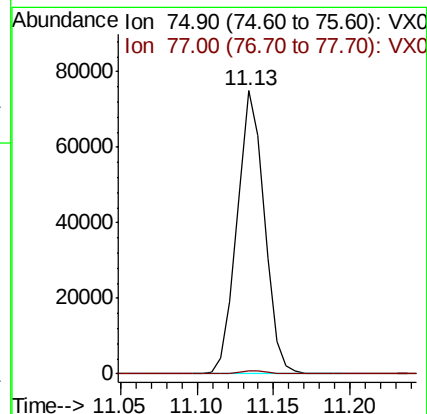
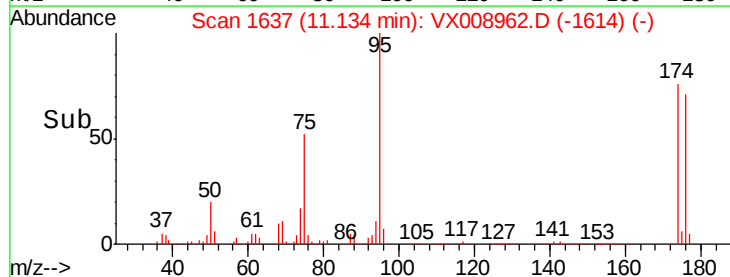
75 100

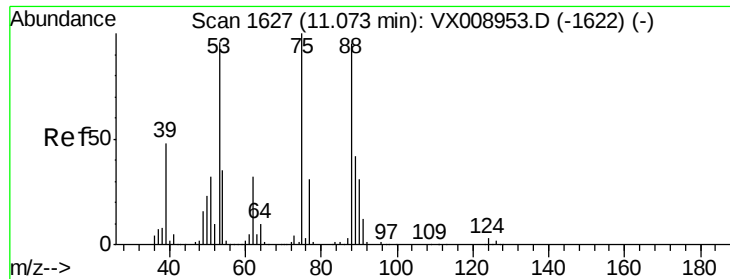
77 1.1 22.7 68.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 58.409 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008962.D

Acq: 15 Apr 2019 15:59

Instrument :

MSVOA_X

ClientSampleId :

M-14-190410DL

Tot Ion: 75 Resp: 93061

Ion Ratio Lower Upper

75 100

53 0.2 78.2 117.4#

89 0.0 36.0 54.0#

