

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX050818\
 Data File : VX001509.D
 Acq On : 08 May 2018 13:06
 Operator : JC/MD
 Sample : J2659-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 09 06:43:28 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M
 Quant Title : SW846 8260
 QLast Update : Sun May 06 07:59:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	274261	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	375027	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	329229	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	182738	50.00	ug/l	0.00

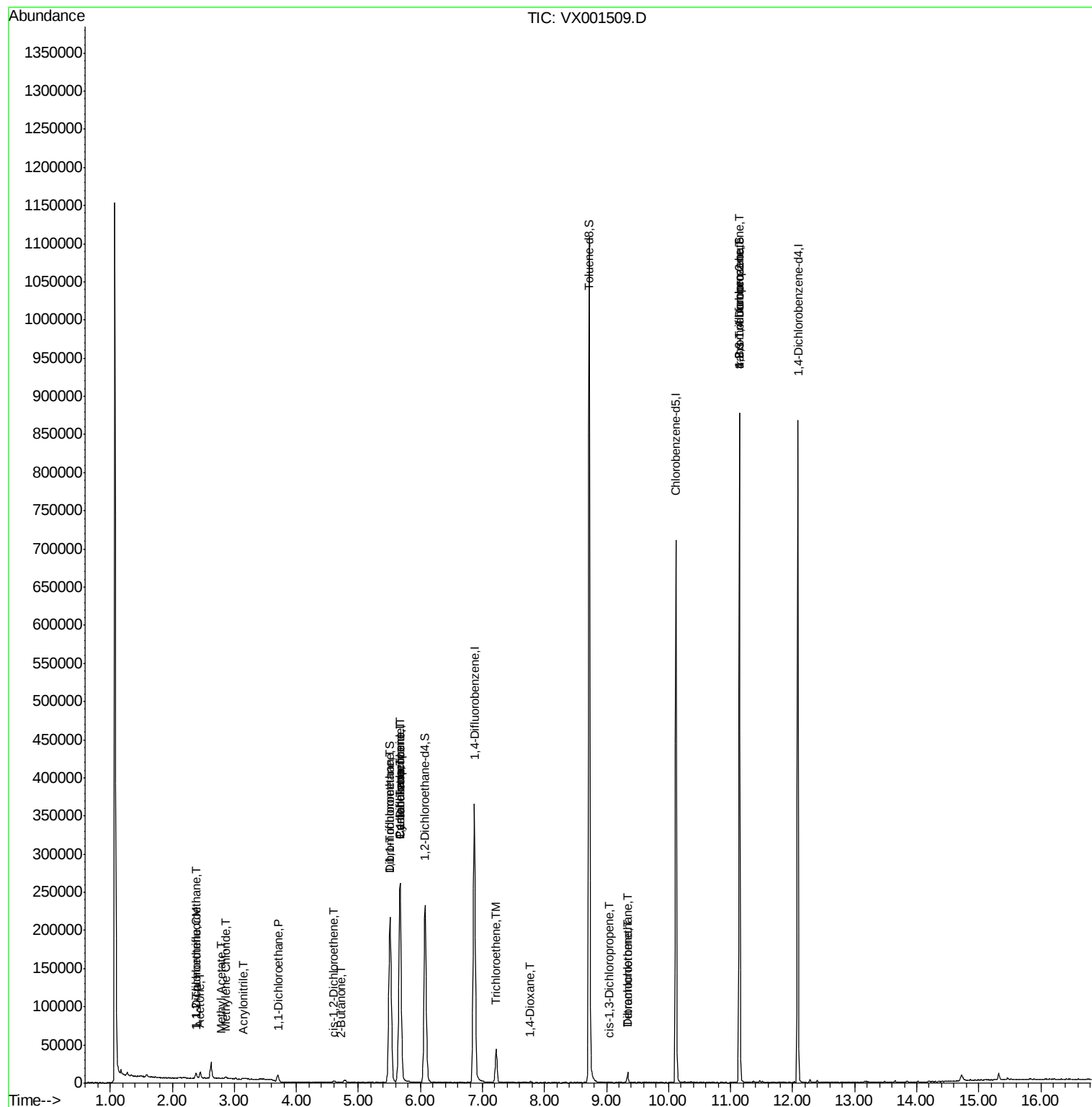
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	223347	56.66	ug/l	0.00
Spiked Amount			Recovery	=	113.32%	
35) Dibromofluoromethane	5.51	113	174512	52.31	ug/l	0.00
Spiked Amount			Recovery	=	104.62%	
50) Toluene-d8	8.72	98	638244	52.42	ug/l	0.00
Spiked Amount			Recovery	=	104.84%	
62) 4-Bromofluorobenzene	11.14	95	211645	45.28	ug/l	0.00
Spiked Amount			Recovery	=	90.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	535	Below Cal		84
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1381	0.42 ug/l	#	93
12) 1,1-Dichloroethene	2.37	96	942	0.31 ug/l	#	79
13) Acrolein	2.30	56	164	Below Cal	#	56
15) Acrylonitrile	3.15	53	384	0.20 ug/l	#	76
16) Acetone	2.45	43	8752	4.89 ug/l		93
18) Methyl Acetate	2.78	43	1062	0.23 ug/l	#	65
20) Methylene Chloride	2.86	84	1119	0.32 ug/l	#	91
24) 1,1-Dichloroethane	3.70	63	9342	1.58 ug/l		97
25) 2-Butanone	4.71	43	630	0.24 ug/l	#	49
27) cis-1,2-Dichloroethene	4.60	96	1142	0.32 ug/l		85
31) Cyclohexane	5.67	56	4929	0.97 ug/l	#	7
32) 1,1,1-Trichloroethane	5.50	97	4229	0.80 ug/l	#	50
36) 1,1-Dichloropropene	5.67	75	16727	3.51 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	23995	4.72 ug/l	#	15
44) Trichloroethene	7.22	130	17149	4.03 ug/l		99
49) 1,4-Dioxane	7.77	88	893	9.46 ug/l	#	85
54) cis-1,3-Dichloropropene	9.06	75	168	2.29 ug/l	#	19
60) Dibromochloromethane	9.34	129	2558	0.68 ug/l	#	11
64) Tetrachloroethene	9.34	164	3098	0.68 ug/l		88
76) 1,2,3-Trichloropropane	11.14	75	107129	28.91 ug/l	#	38
81) trans-1,4-Dichloro-2-buten	11.14	75	107129	88.55 ug/l	#	7

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX001509.D

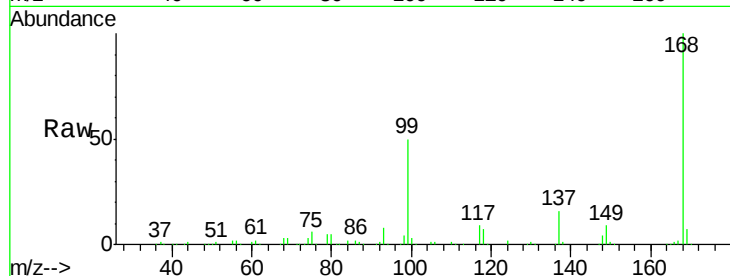
Acq: 08 May 2018 13:06

Tgt Ion: 168 Resp: 274261

Ion Ratio Lower Upper

168 100

99 49.5 36.6 54.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

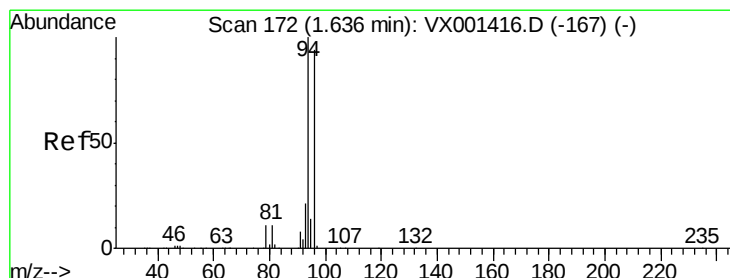
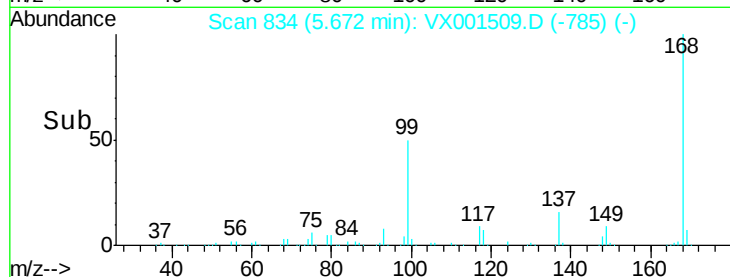
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX001509.D

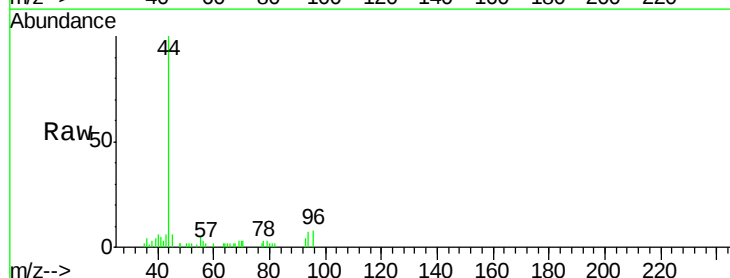
Acq: 08 May 2018 13:06

Tgt Ion: 94 Resp: 535

Ion Ratio Lower Upper

94 100

96 109.3 75.0 112.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

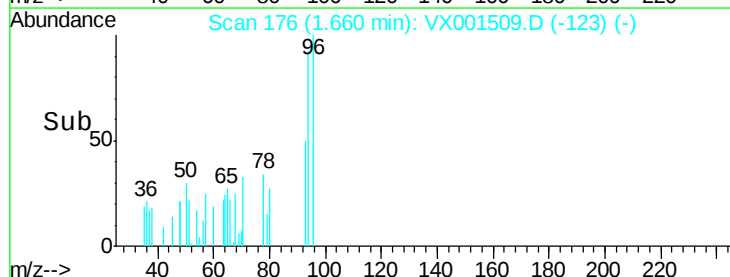
300

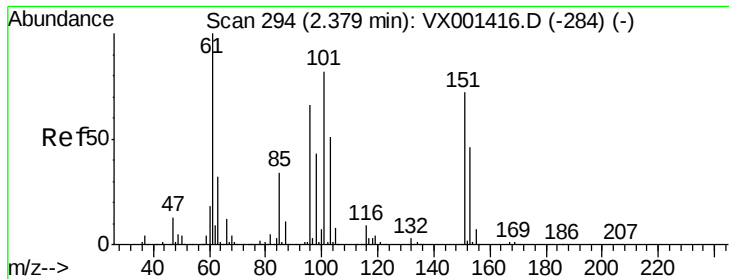
200

100

0

Time--> 1.60 1.65 1.70





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.42 ug/l

RT: 2.39 min Scan# 296

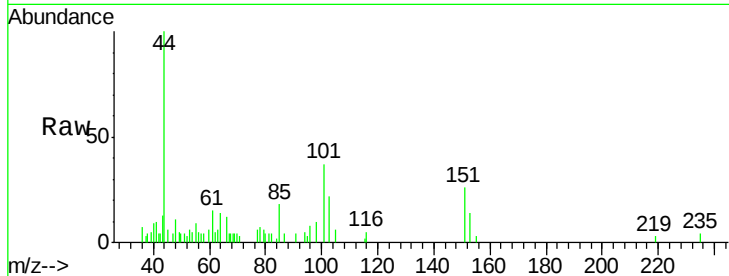
Delta R.T. 0.01 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

Tgt Ion: 101 Resp: 1381

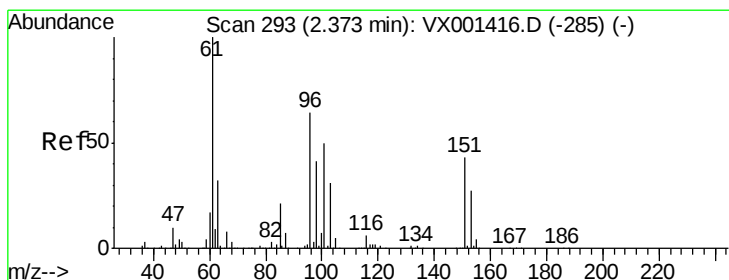
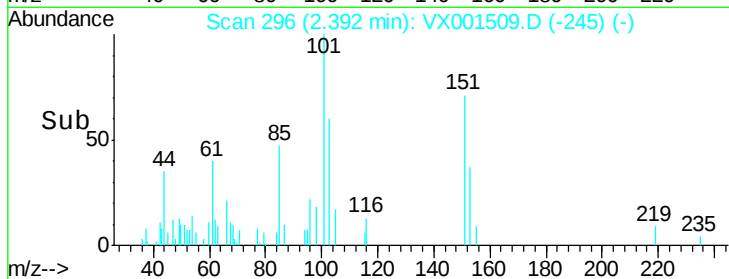
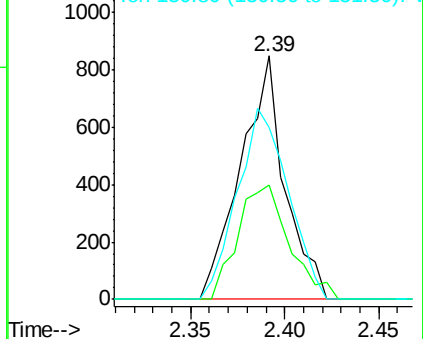
Ion	Ratio	Lower	Upper
101	100		
85	54.8	33.7	50.5#
151	90.2	72.3	108.5



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 0.31 ug/l

RT: 2.37 min Scan# 293

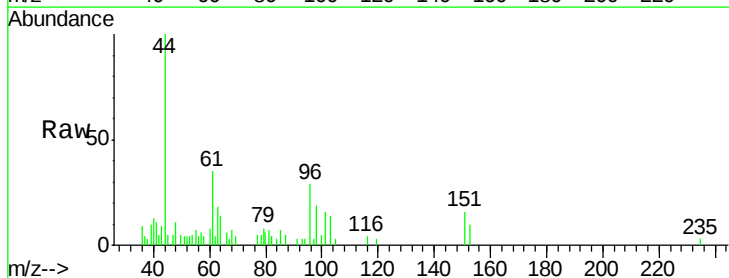
Delta R.T. 0.00 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

Tgt Ion: 96 Resp: 942

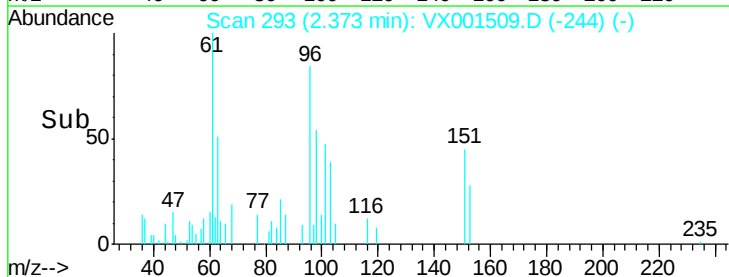
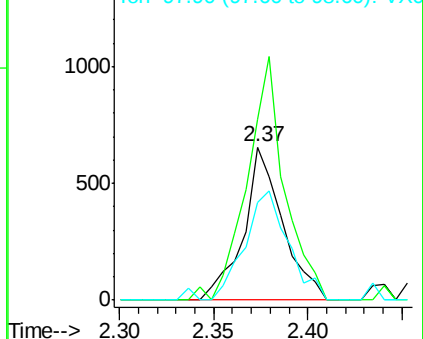
Ion	Ratio	Lower	Upper
96	100		
61	118.5	125.7	188.5#
98	64.3	52.0	78.0

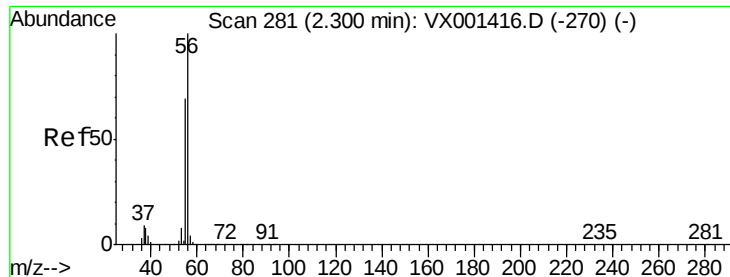


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX001509.D

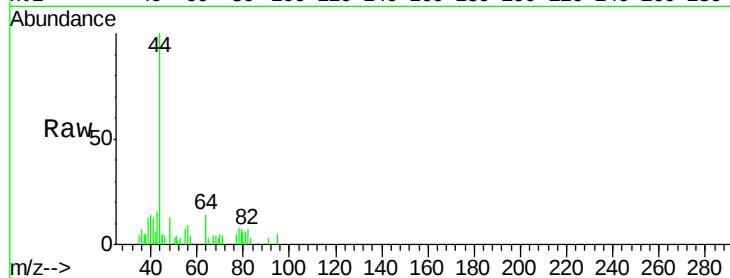
Acq: 08 May 2018 13:06

Tgt Ion: 56 Resp: 164

Ion Ratio Lower Upper

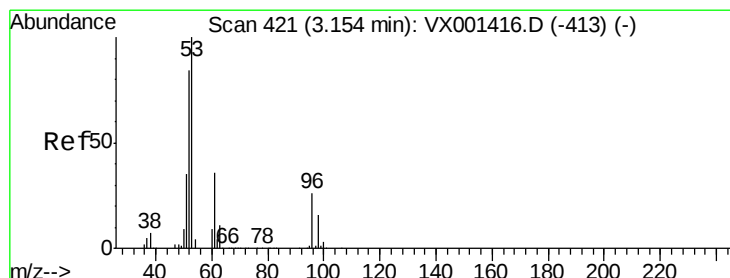
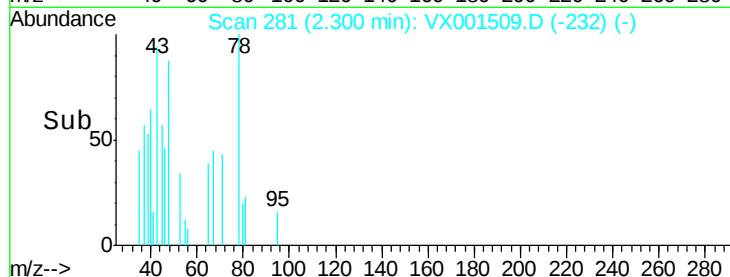
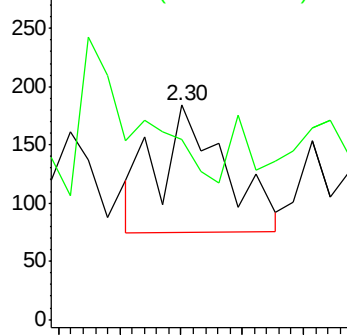
56 100

55 32.9 54.5 81.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: 0.20 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

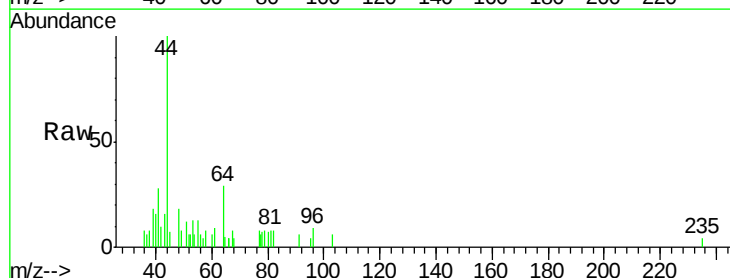
Tgt Ion: 53 Resp: 384

Ion Ratio Lower Upper

53 100

52 109.1 66.2 99.2#

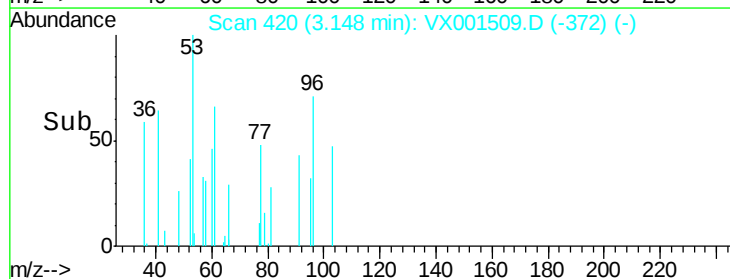
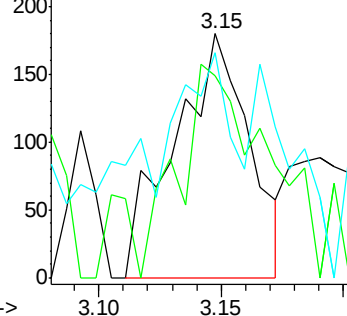
51 41.9 28.6 43.0

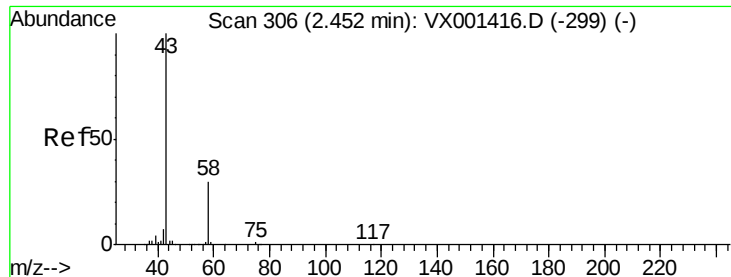


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: 4.89 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX001509.D

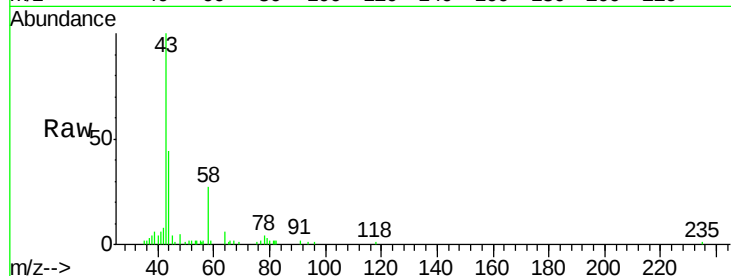
Acq: 08 May 2018 13:06

Tgt Ion: 43 Resp: 8752

Ion Ratio Lower Upper

43 100

58 26.2 23.8 35.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

6000

5000

4000

3000

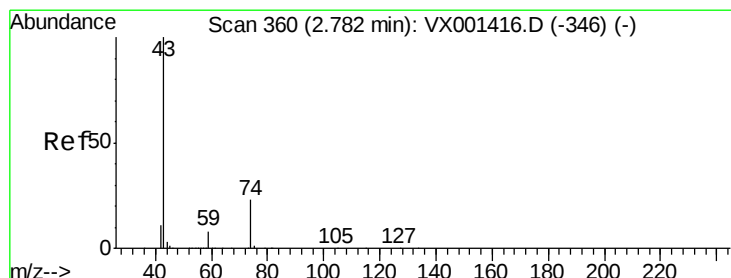
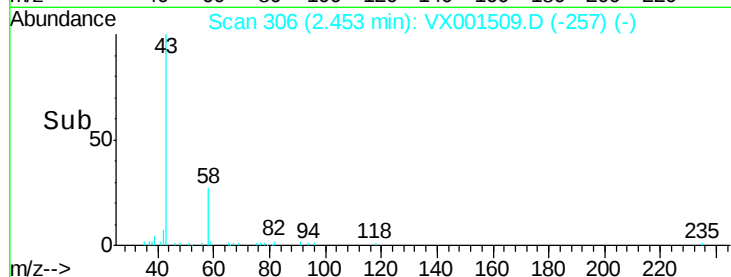
2000

1000

0

2.40 2.45 2.50

Time-->



#18

Methyl Acetate

Concen: 0.23 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX001509.D

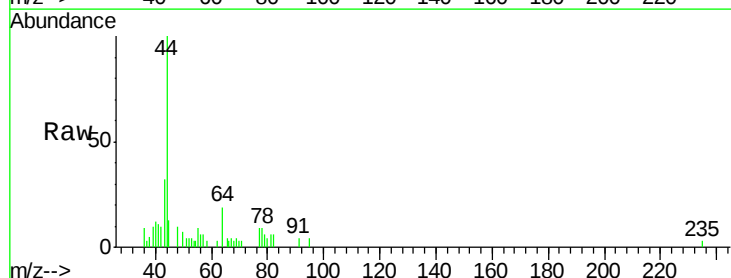
Acq: 08 May 2018 13:06

Tgt Ion: 43 Resp: 1062

Ion Ratio Lower Upper

43 100

74 6.3 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

600

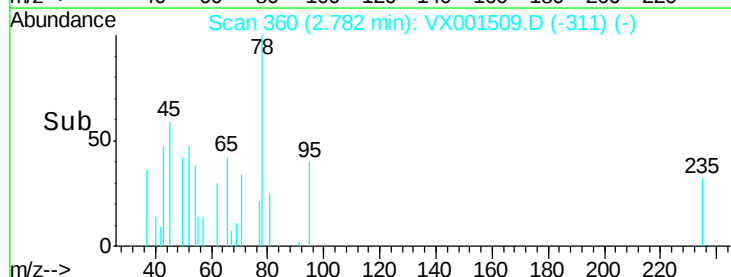
400

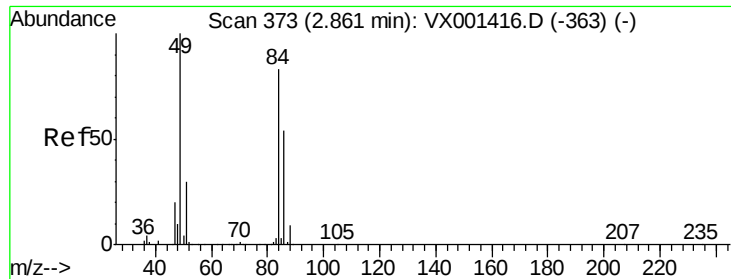
200

0

2.75 2.80 2.85

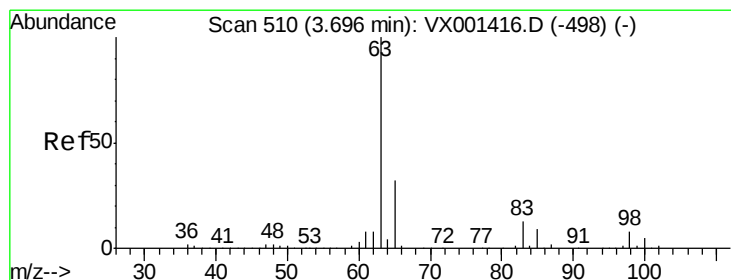
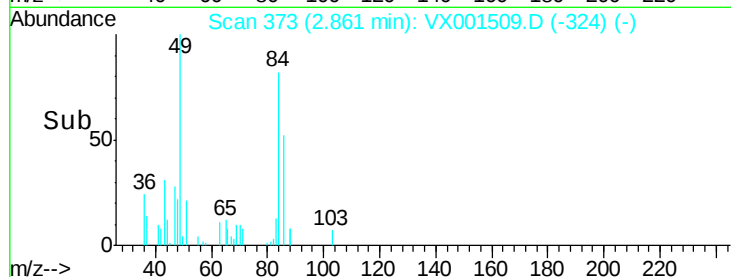
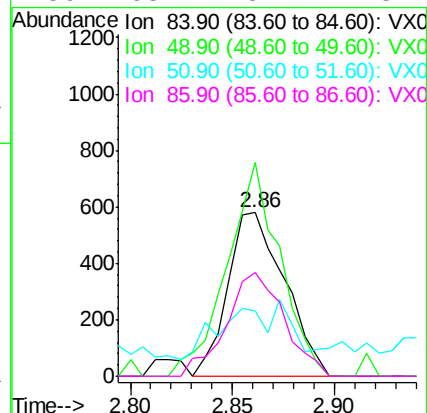
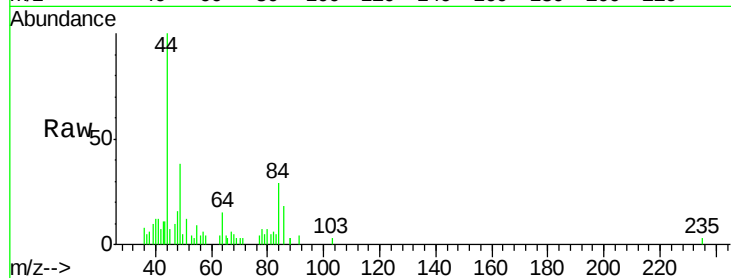
Time-->





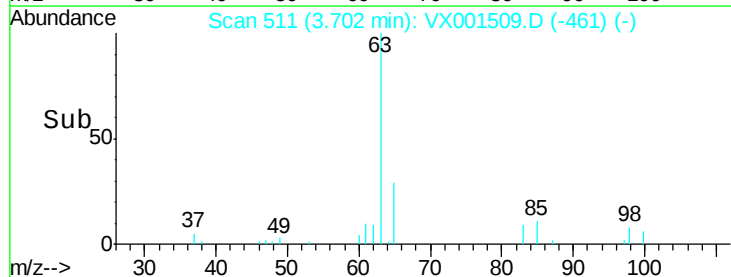
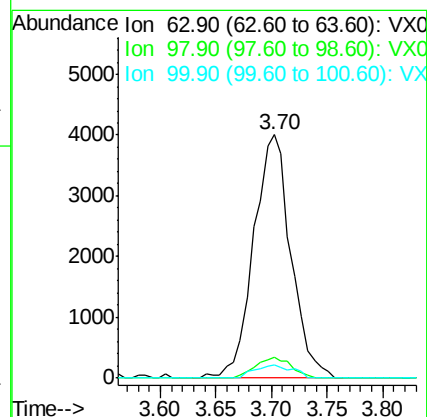
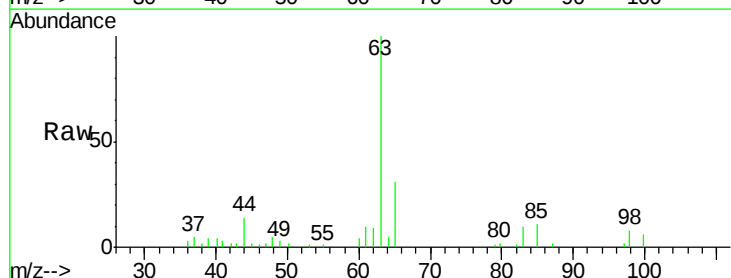
#20
Methylene Chloride
Concen: 0.32 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX001509.D
Acq: 08 May 2018 13:06

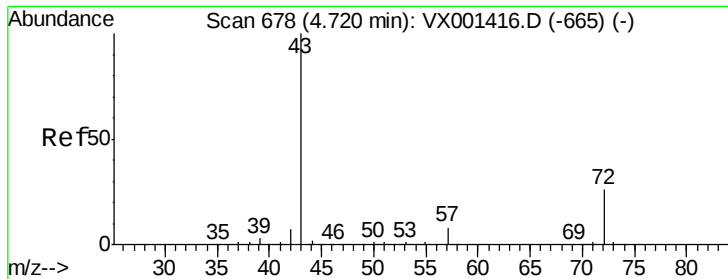
Tgt Ion:	84	Resp:	1119
Ion	Ratio	Lower	Upper
84	100		
49	130.7	96.6	144.8
51	25.0	29.0	43.4#
86	63.7	52.2	78.4



#24
1,1-Dichloroethane
Concen: 1.58 ug/l
RT: 3.70 min Scan# 511
Delta R.T. 0.01 min
Lab File: VX001509.D
Acq: 08 May 2018 13:06

Tgt Ion:	63	Resp:	9342
Ion	Ratio	Lower	Upper
63	100		
98	8.5	3.8	11.4
100	5.6	2.4	7.1





#25

2-Butanone

Concen: 0.24 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX001509.D

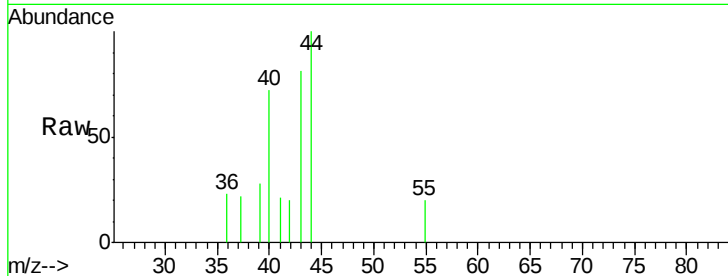
Acq: 08 May 2018 13:06

Tgt Ion: 43 Resp: 630

Ion Ratio Lower Upper

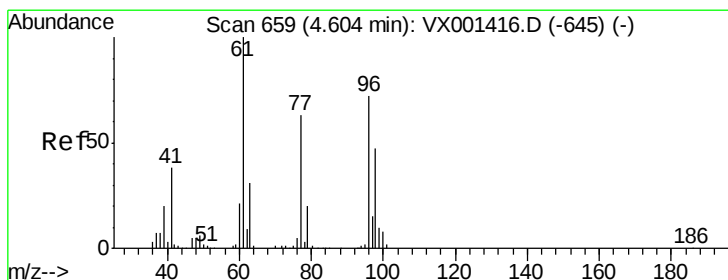
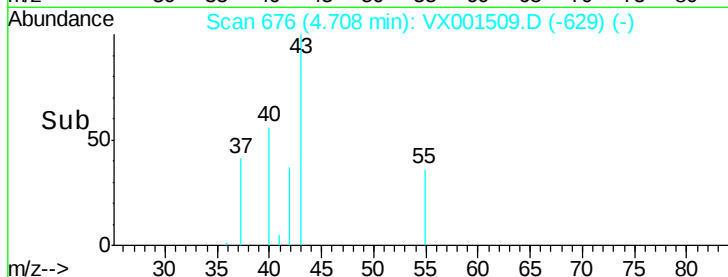
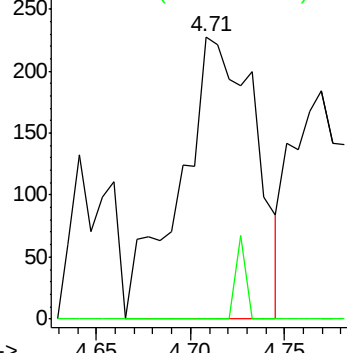
43 100

72 0.0 20.7 31.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.32 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.01 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

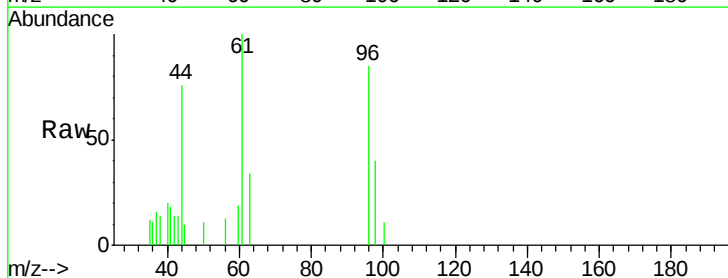
Tgt Ion: 96 Resp: 1142

Ion Ratio Lower Upper

96 100

61 131.0 0.0 301.6

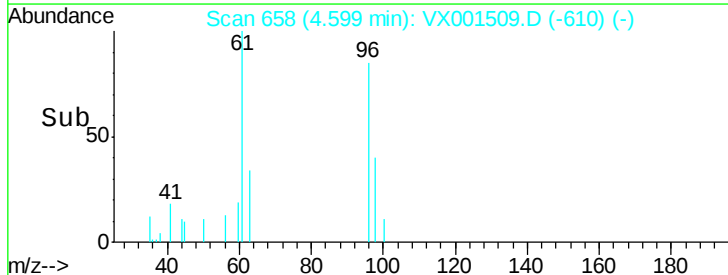
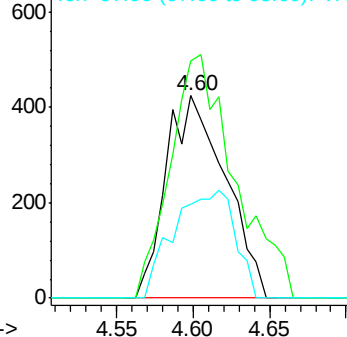
98 55.3 0.0 131.6

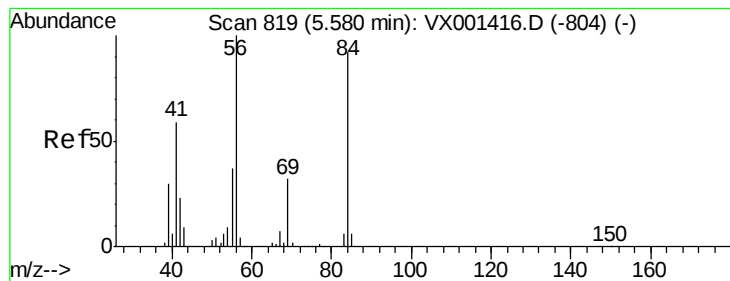


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 0.97 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

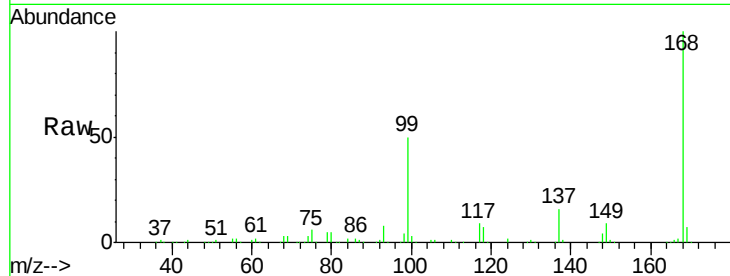
Tgt Ion: 56 Resp: 4929

Ion Ratio Lower Upper

56 100

69 181.0 25.4 38.0#

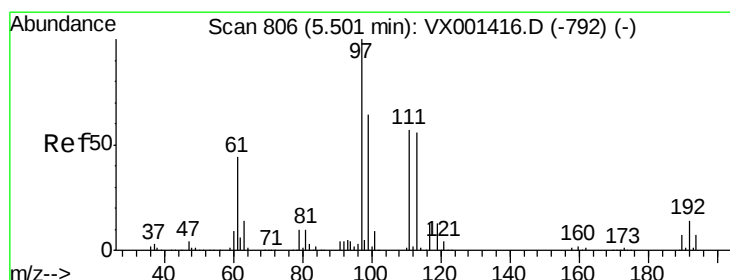
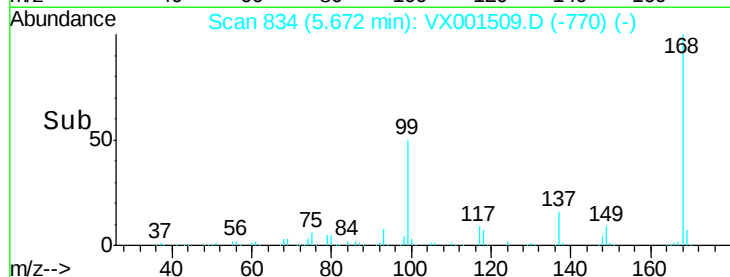
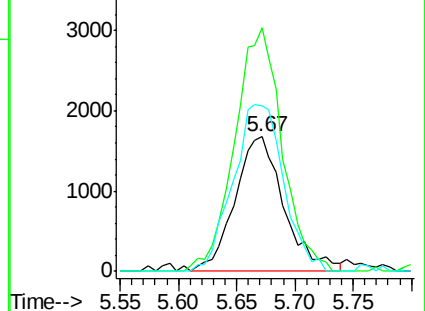
84 123.4 73.8 110.8#



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



#32

1,1,1-Trichloroethane

Concen: 0.80 ug/l

RT: 5.50 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

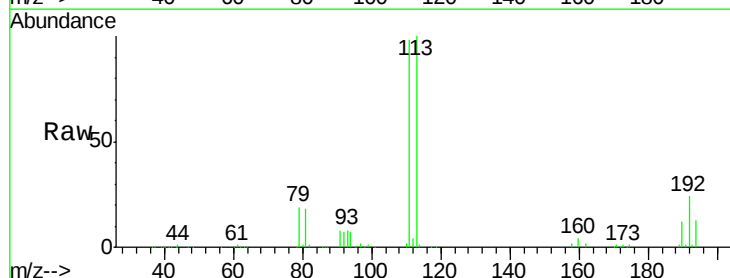
Tgt Ion: 97 Resp: 4229

Ion Ratio Lower Upper

97 100

99 0.0 51.3 76.9#

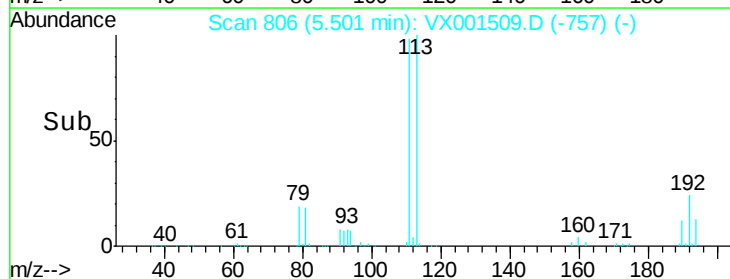
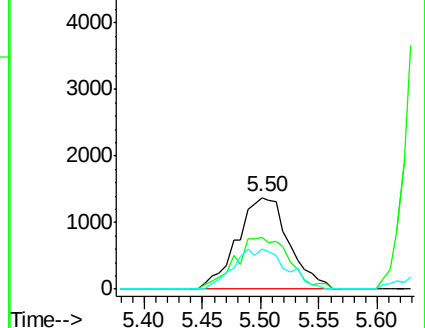
61 44.8 34.8 52.2

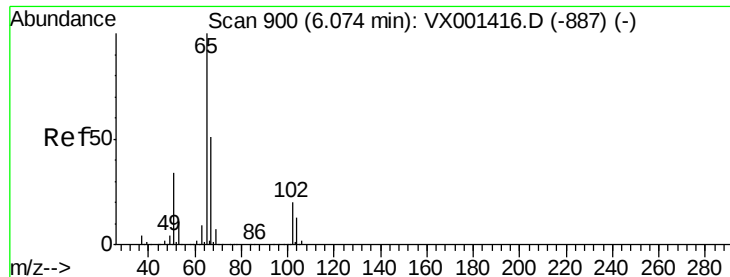


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 56.66 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001509.D

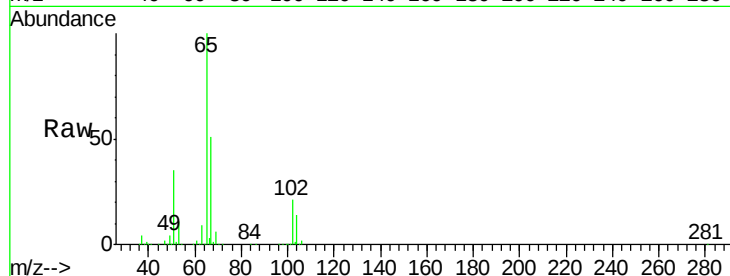
Acq: 08 May 2018 13:06

Tgt Ion: 65 Resp: 223347

Ion Ratio Lower Upper

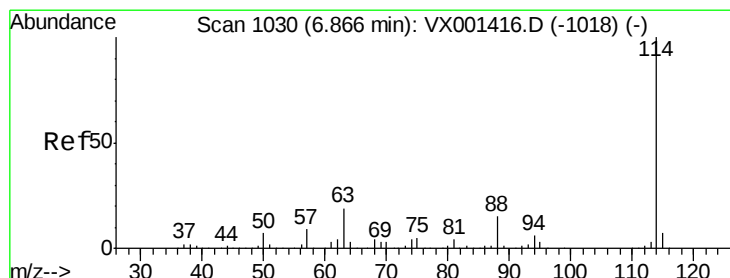
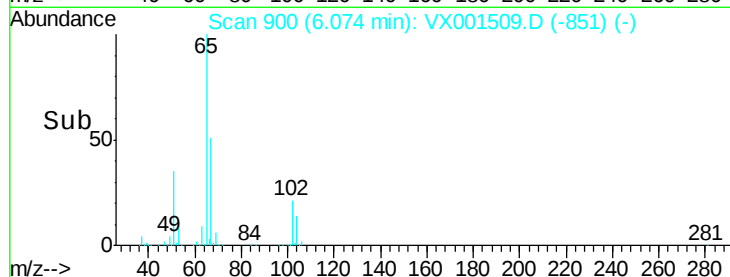
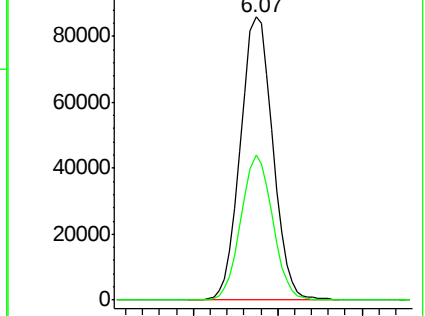
65 100

67 50.3 0.0 101.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

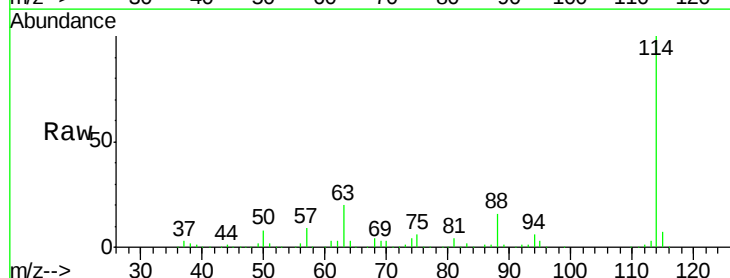
Tgt Ion: 114 Resp: 375027

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.6

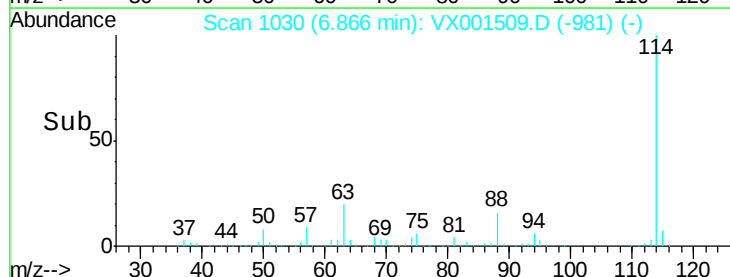
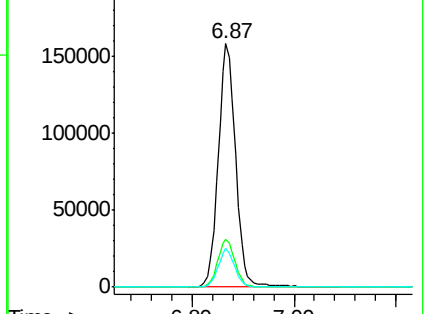
88 15.7 0.0 30.8

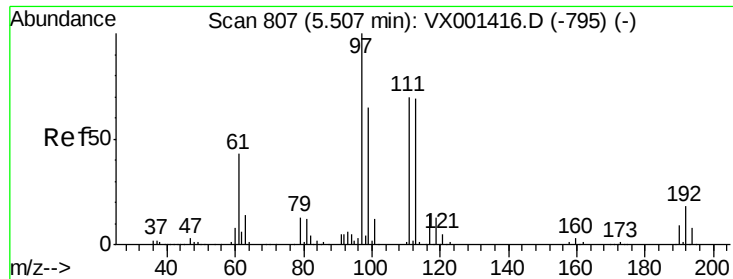


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

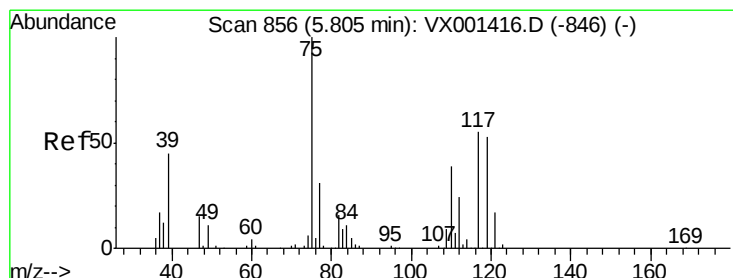
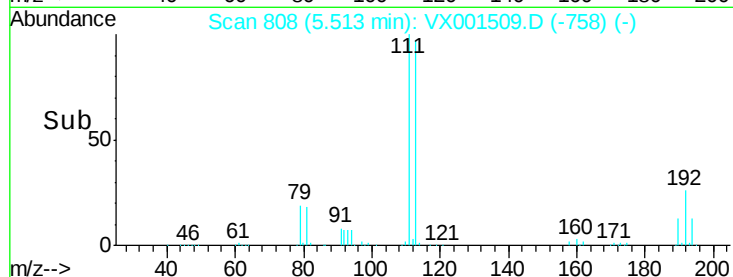
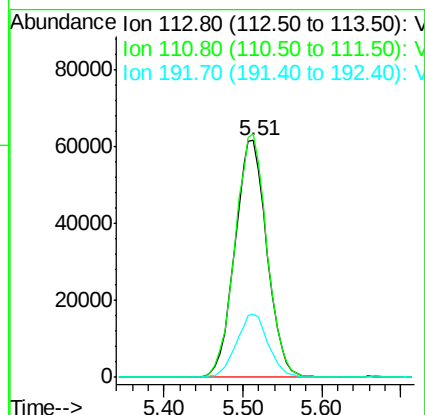
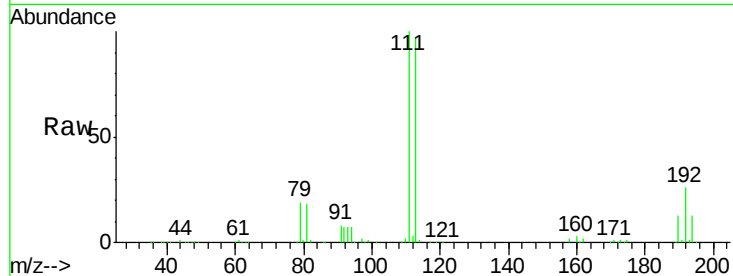
Ion 87.90 (87.60 to 88.60): VX0





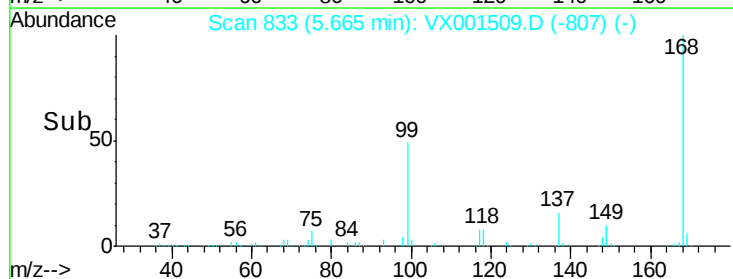
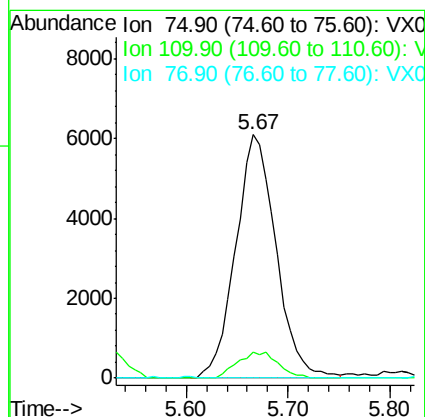
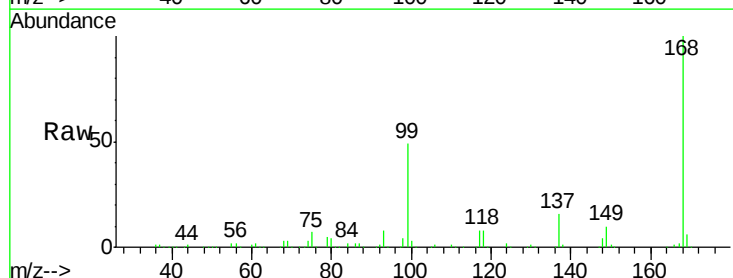
#35
 Dibromofluoromethane
 Concen: 52.31 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX001509.D
 Acq: 08 May 2018 13:06

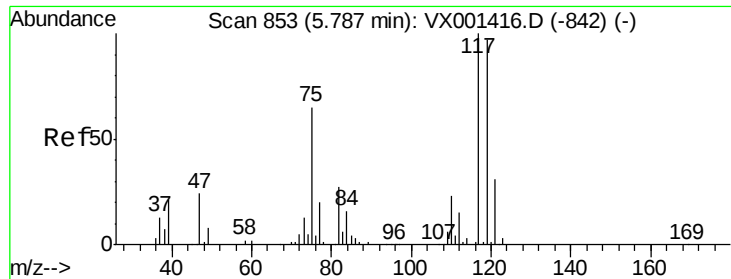
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.2	123.2
192	26.2	21.4	32.0



#36
 1,1-Dichloropropene
 Concen: 3.51 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX001509.D
 Acq: 08 May 2018 13:06

Tgt Ion	Ratio	Lower	Upper
75	100		
110	10.8	18.9	56.7#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 4.72 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

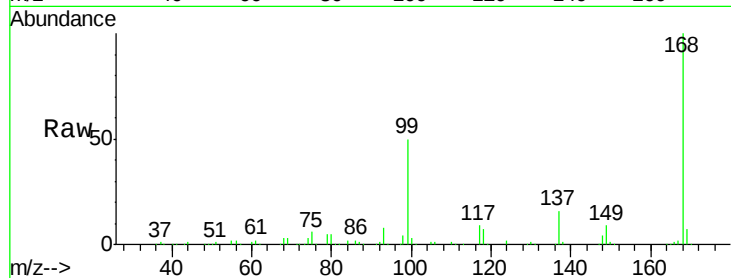
Tgt Ion:117 Resp: 23995

Ion Ratio Lower Upper

117 100

119 4.2 77.0 115.6#

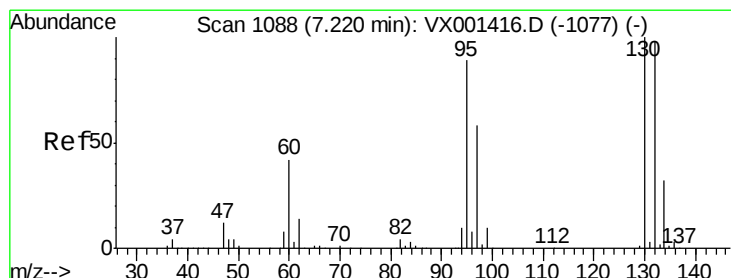
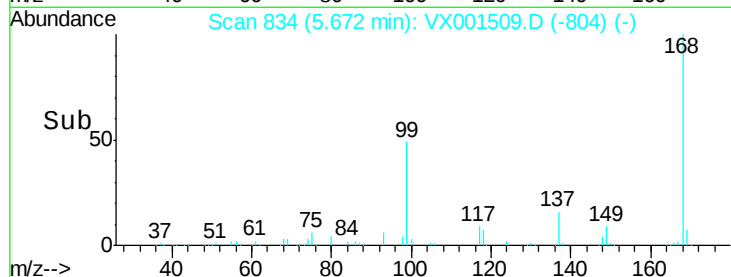
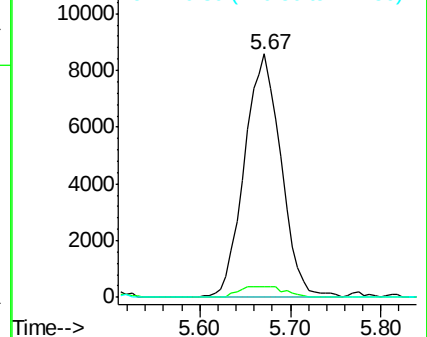
121 0.0 25.1 37.7#



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: 4.03 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX001509.D

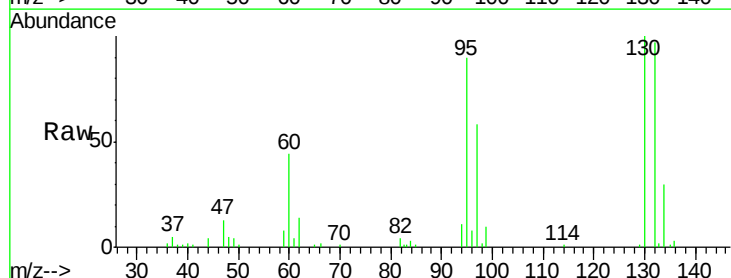
Acq: 08 May 2018 13:06

Tgt Ion:130 Resp: 17149

Ion Ratio Lower Upper

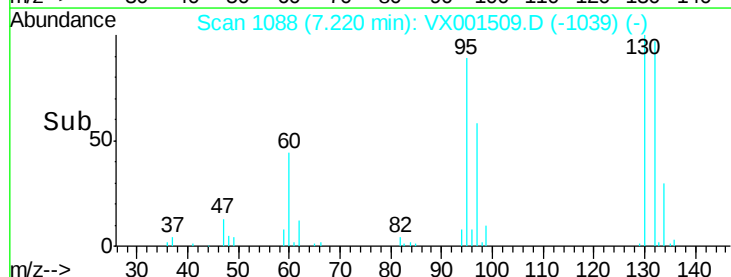
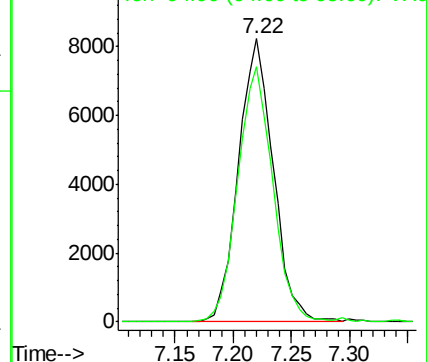
130 100

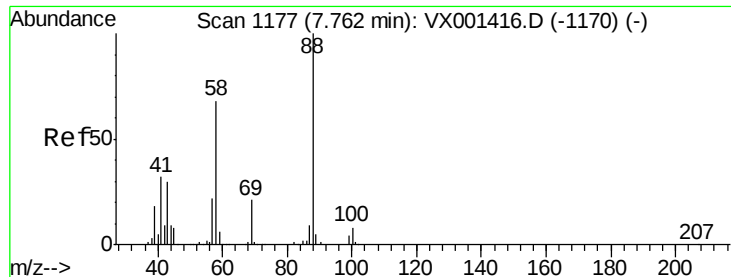
95 90.4 0.0 178.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 9.46 ug/l

RT: 7.77 min Scan# 1178

Delta R.T. 0.01 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

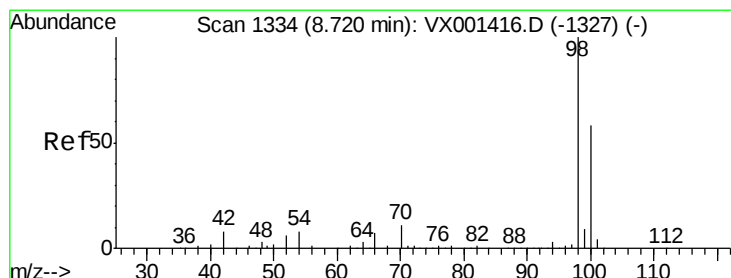
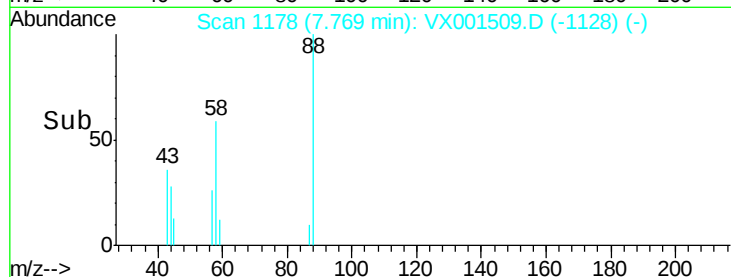
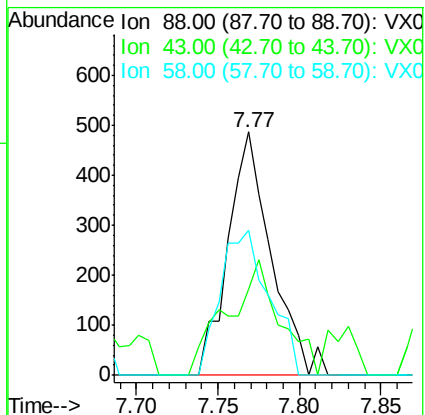
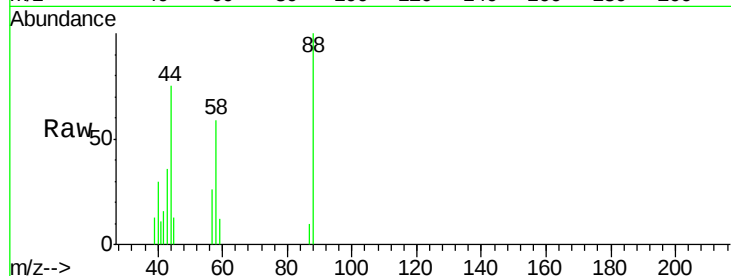
Tgt Ion: 88 Resp: 893

Ion Ratio Lower Upper

88 100

43 58.5 26.4 39.6#

58 67.3 54.1 81.1



#50

Toluene-d8

Concen: 52.42 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX001509.D

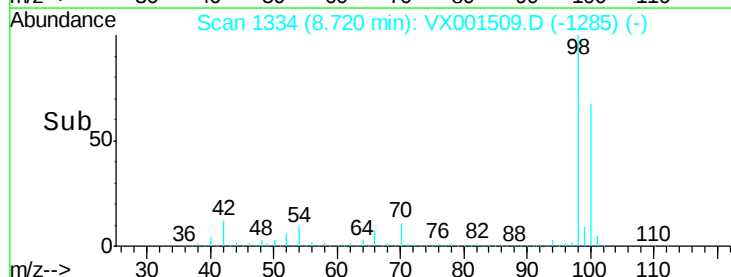
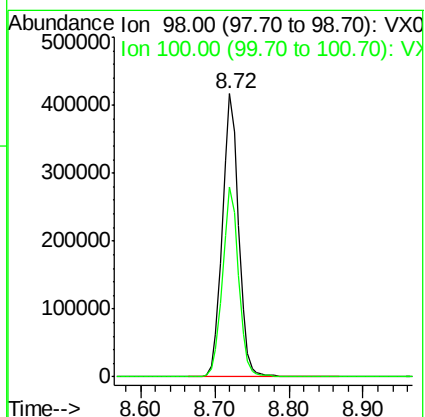
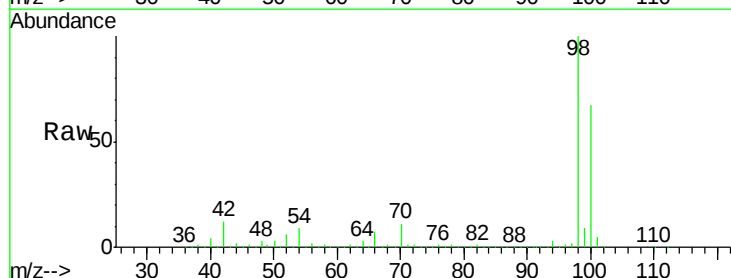
Acq: 08 May 2018 13:06

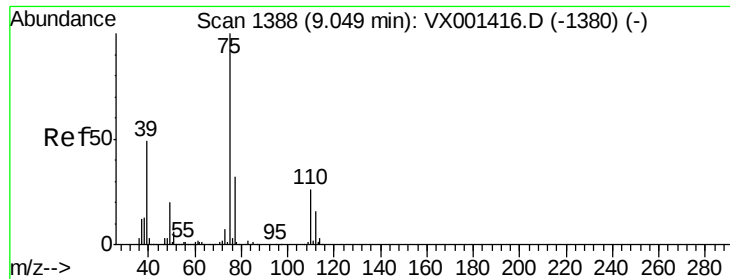
Tgt Ion: 98 Resp: 638244

Ion Ratio Lower Upper

98 100

100 66.3 54.0 81.0





#54

cis-1,3-Dichloropropene

Concen: 2.29 ug/l

RT: 9.06 min Scan# 1389

Delta R.T. 0.01 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

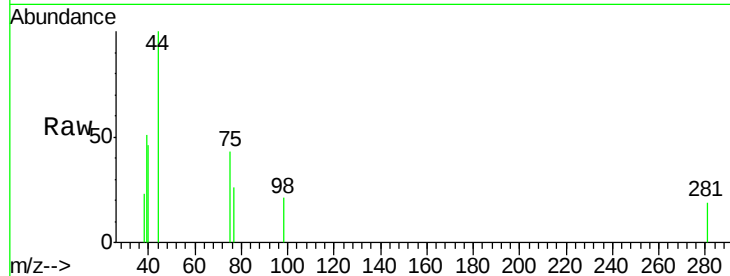
Tgt Ion: 75 Resp: 168

Ion Ratio Lower Upper

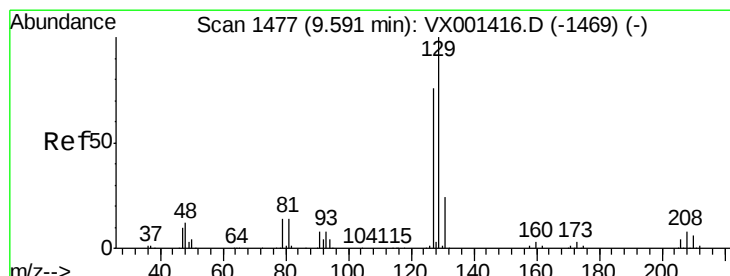
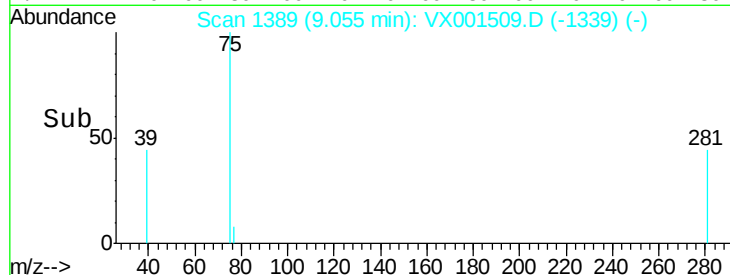
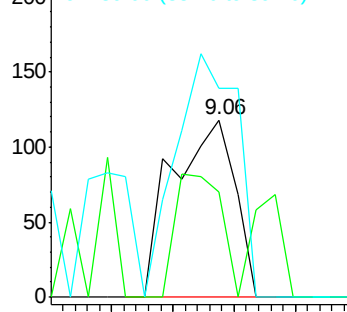
75 100

77 59.3 25.5 38.3#

39 117.8 38.9 58.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0
Ion 39.00 (38.70 to 39.70): VX0



#60

Dibromochloromethane

Concen: 0.68 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.26 min

Lab File: VX001509.D

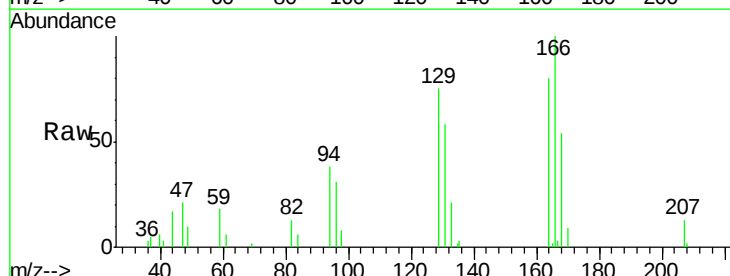
Acq: 08 May 2018 13:06

Tgt Ion: 129 Resp: 2558

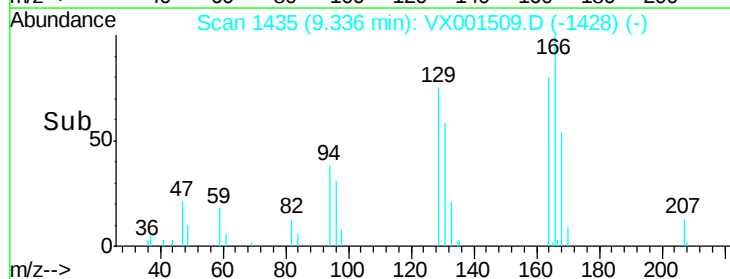
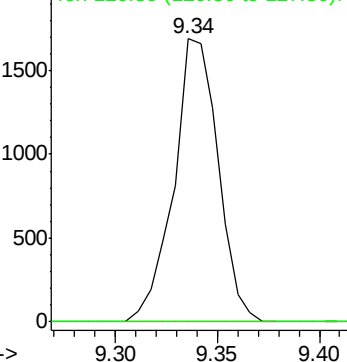
Ion Ratio Lower Upper

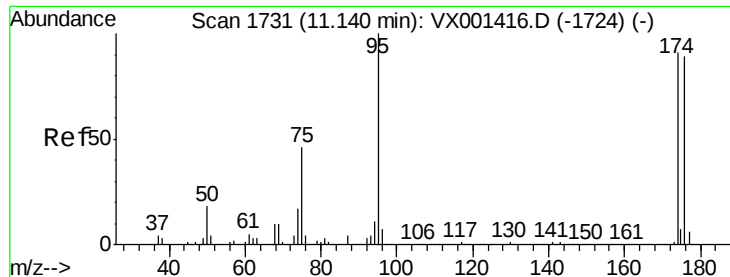
129 100

127 0.0 38.1 114.5#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 45.28 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

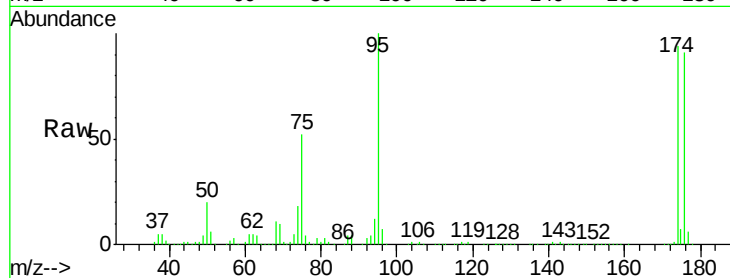
Tgt Ion: 95 Resp: 211645

Ion Ratio Lower Upper

95 100

174 100.9 0.0 202.0

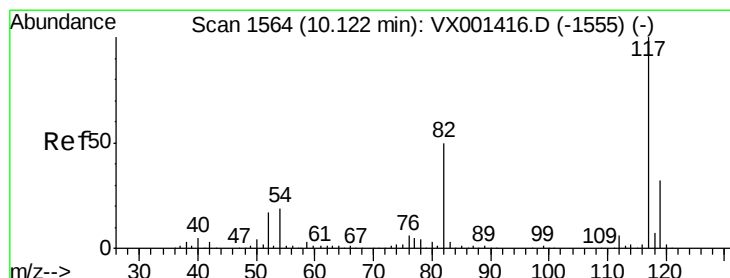
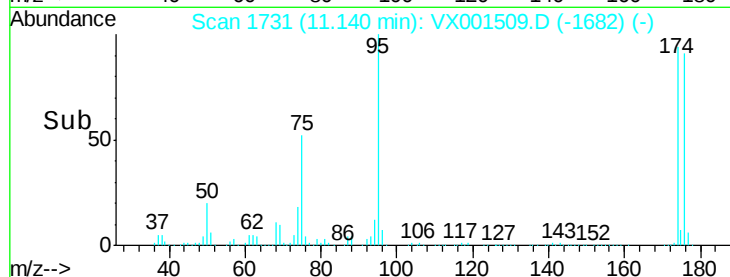
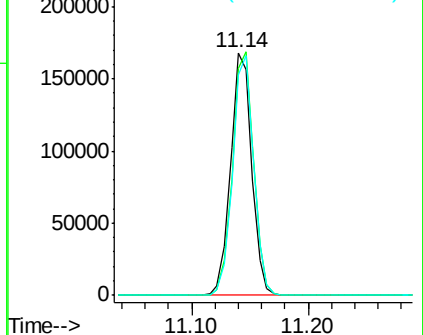
176 98.5 0.0 197.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.01 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

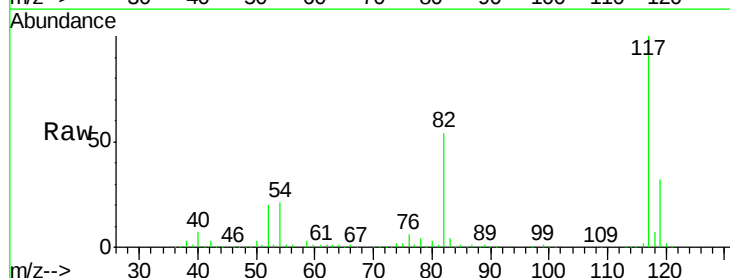
Tgt Ion: 117 Resp: 329229

Ion Ratio Lower Upper

117 100

82 53.6 40.0 60.0

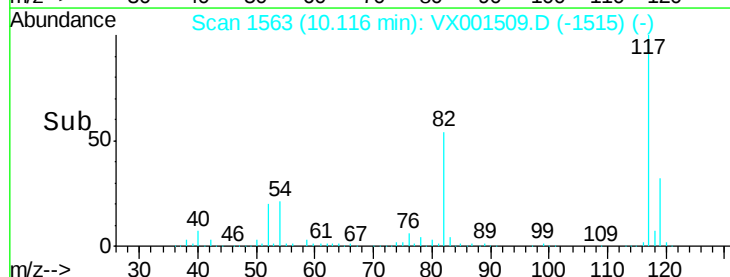
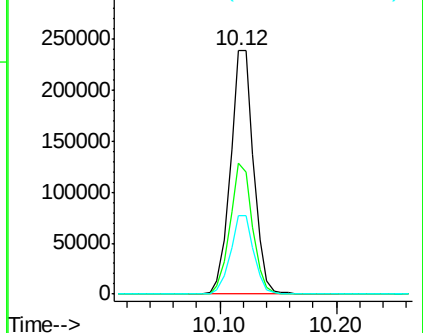
119 32.3 25.8 38.8

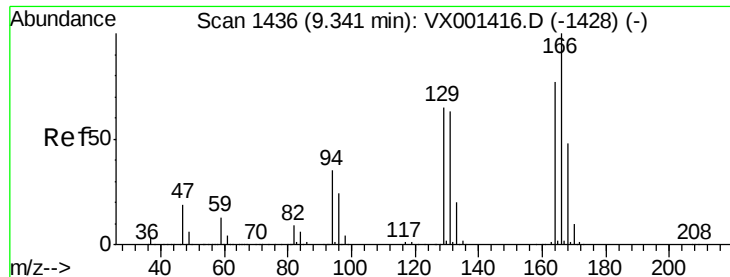


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 0.68 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. 0.00 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

Tgt Ion:164 Resp: 3098

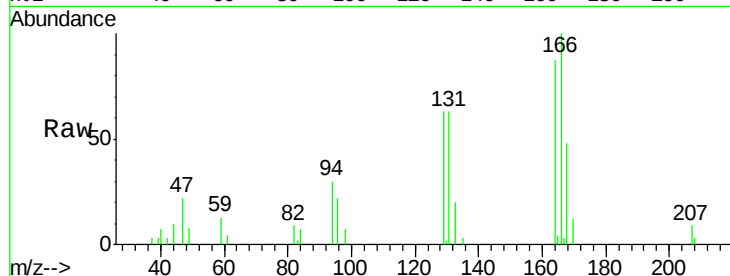
Ion Ratio Lower Upper

164 100

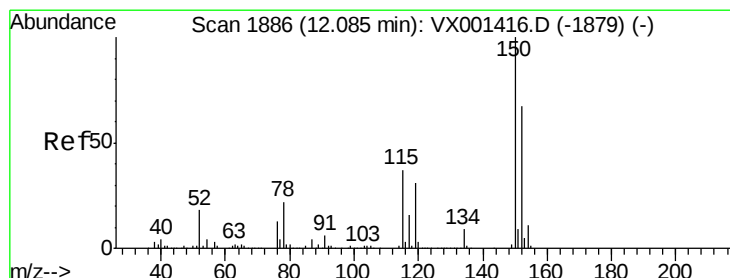
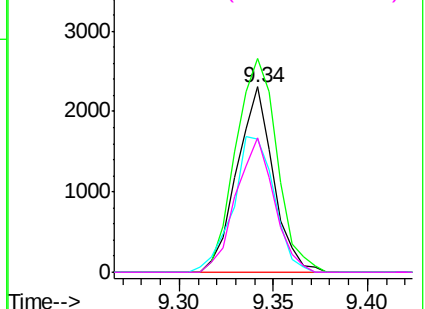
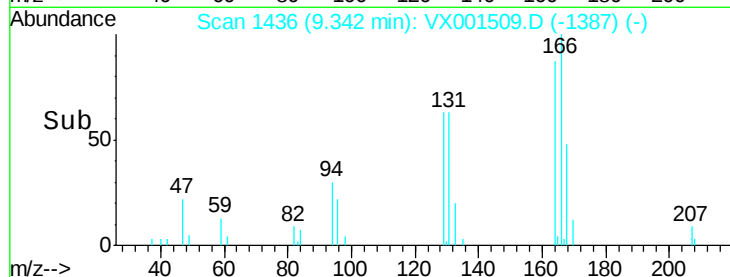
166 115.2 103.5 155.3

129 72.0 66.7 100.1

131 72.4 64.9 97.3



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: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

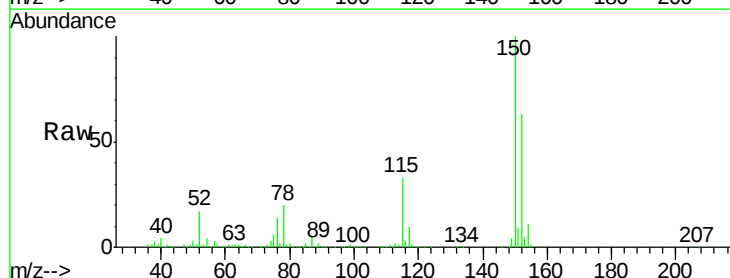
Tgt Ion:152 Resp: 182738

Ion Ratio Lower Upper

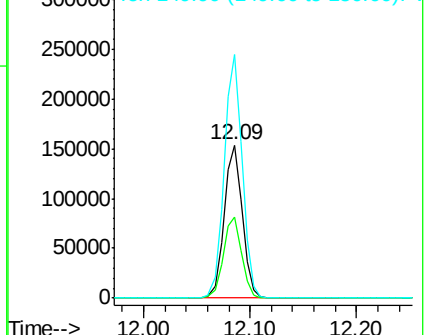
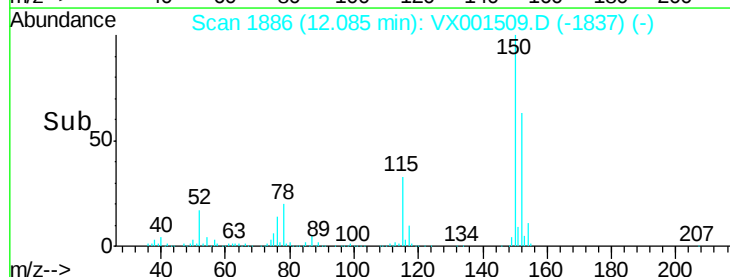
152 100

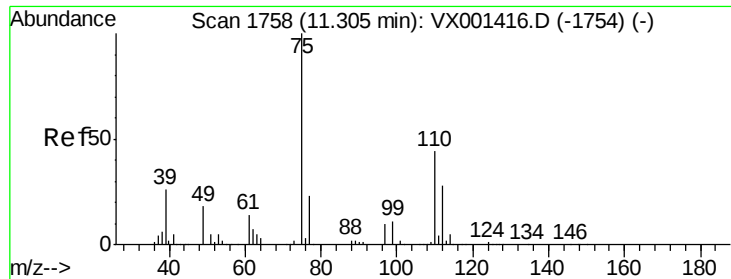
115 53.4 37.7 113.1

150 158.6 0.0 349.4



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: 28.91 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001509.D

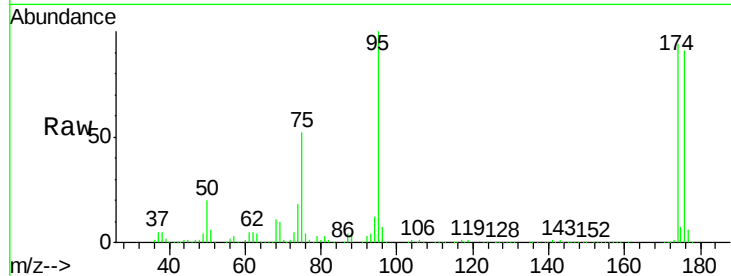
Acq: 08 May 2018 13:06

Tgt Ion: 75 Resp: 107129

Ion Ratio Lower Upper

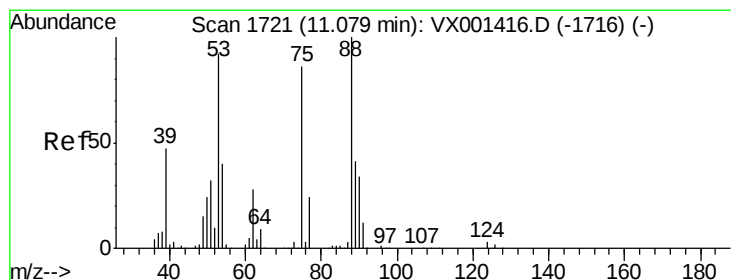
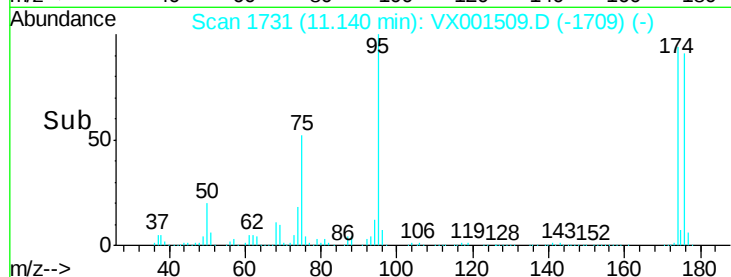
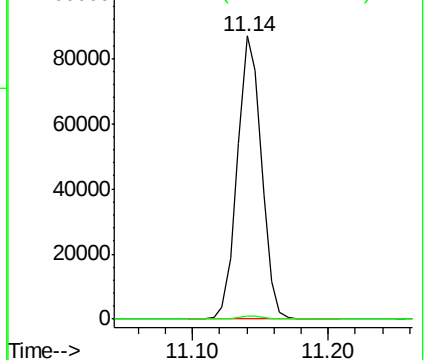
75 100

77 1.2 19.6 58.7#



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: 88.55 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001509.D

Acq: 08 May 2018 13:06

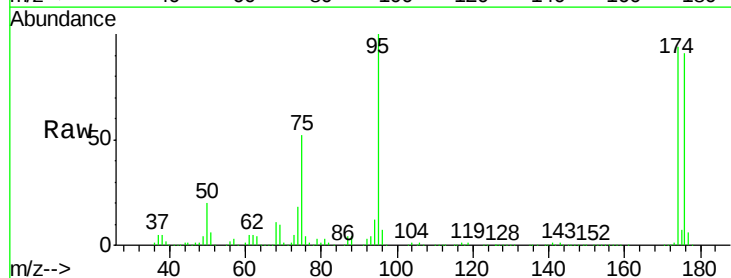
Tgt Ion: 75 Resp: 107129

Ion Ratio Lower Upper

75 100

53 0.1 84.5 126.7#

89 0.0 39.5 59.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

