

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062918\
 Data File : VX003034.D
 Acq On : 29 Jun 2018 17:38
 Operator : JC/MD
 Sample : J3695-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 29 23:29:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	266514	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	369817	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	348482	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	196571	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	177566	48.20	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.40%	
35) Dibromofluoromethane	5.51	113	143076	48.85	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.70%	
50) Toluene-d8	8.72	98	519740	48.60	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.20%	
62) 4-Bromofluorobenzene	11.14	95	185332	44.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.88%	

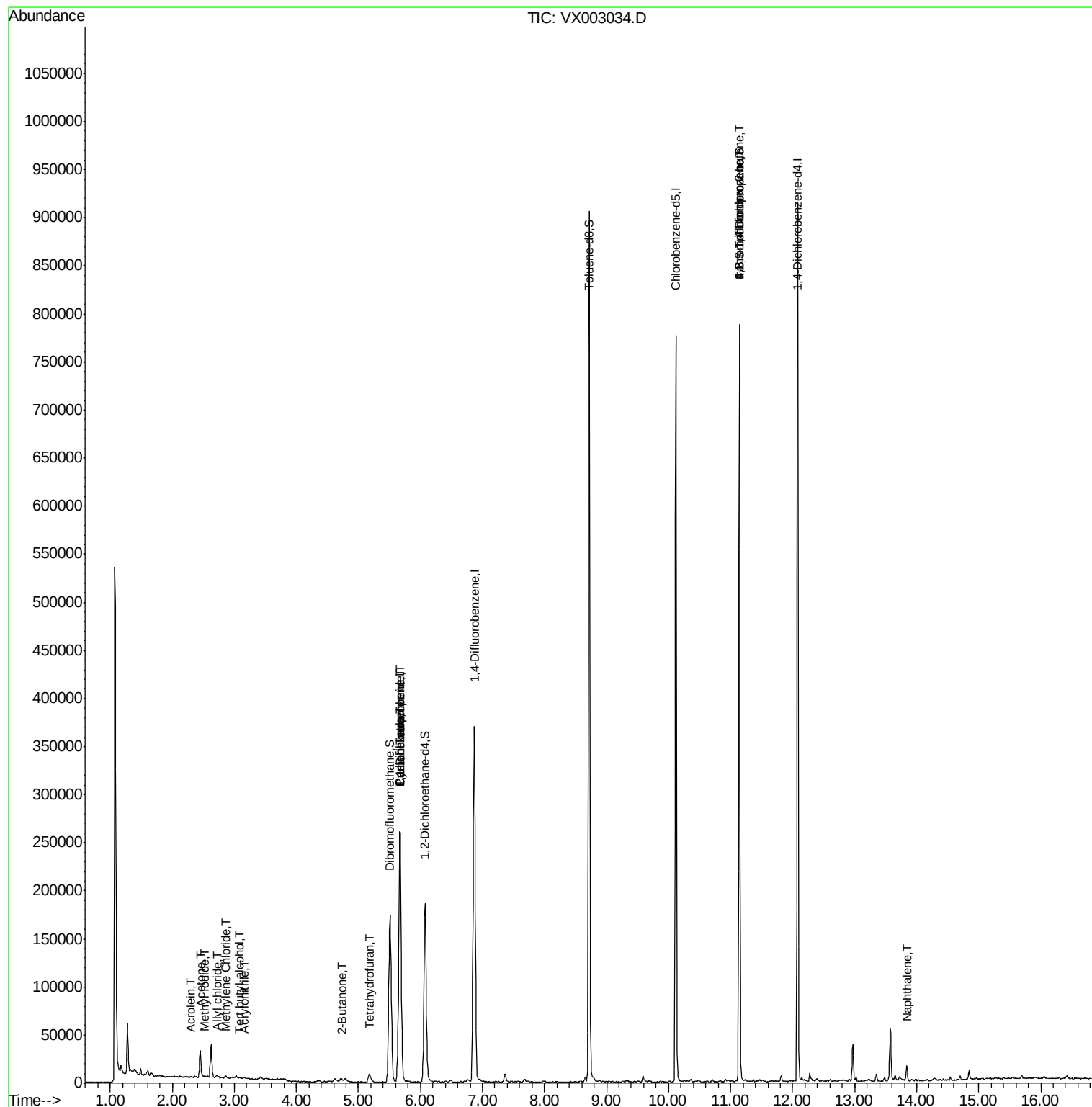
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	150	Below Cal		100
3) Chloromethane	1.32	50	1008	Below Cal	#	86
5) Bromomethane	1.65	94	1014	Below Cal		93
6) Chloroethane	1.71	64	142	Below Cal	#	74
10) Methyl Iodide	2.53	142	1832	6.76	ug/l	# 98
11) Tert butyl alcohol	3.08	59	1093	1.49	ug/l	# 62
13) Acrolein	2.30	56	231	4.79	ug/l	# 81
14) Allyl chloride	2.71	41	2286	0.44	ug/l	# 47
15) Acrylonitrile	3.16	53	466	0.30	ug/l	# 76
16) Acetone	2.45	43	31997	20.97	ug/l	# 98
20) Methylene Chloride	2.86	84	1067	0.36	ug/l	# 87
25) 2-Butanone	4.72	43	6150	2.72	ug/l	# 96
29) Tetrahydrofuran	5.18	42	7792	5.37	ug/l	# 98
31) Cyclohexane	5.67	56	4841	1.05	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	17917	4.42	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	23804	5.35	ug/l	# 17
76) 1,2,3-Trichloropropane	11.14	75	96139	27.00	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	96139	76.43	ug/l	# 7
95) Naphthalene	13.84	128	9253	0.69	ug/l	# 97

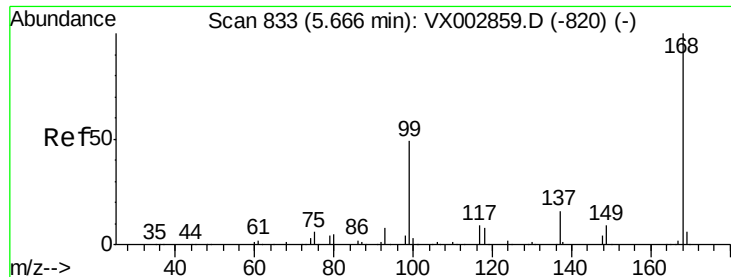
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003034.D

Acq: 29 Jun 2018 17:38

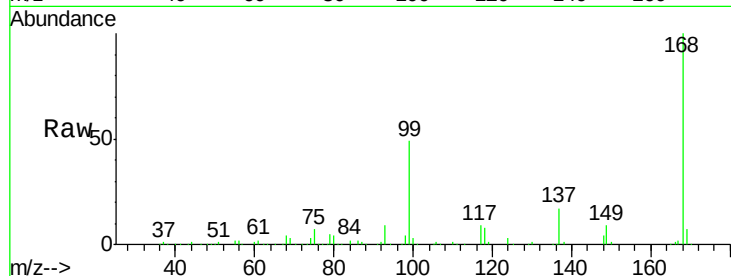
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 266514

Ion Ratio Lower Upper

168 100

99 49.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

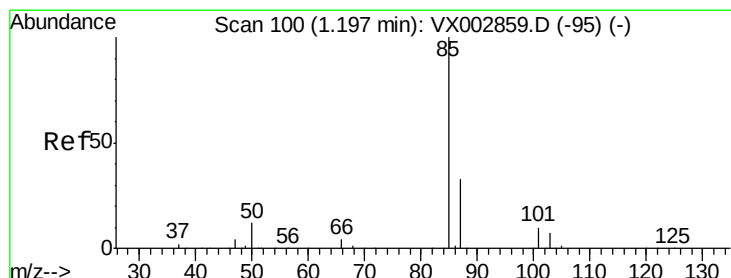
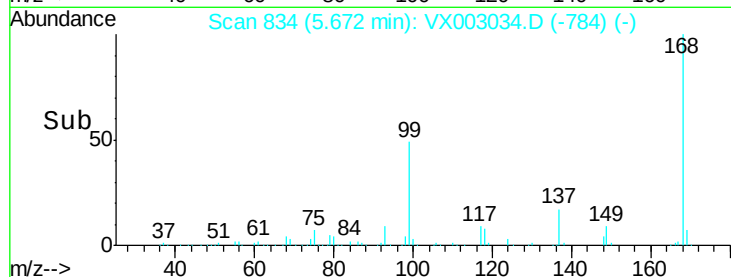
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003034.D

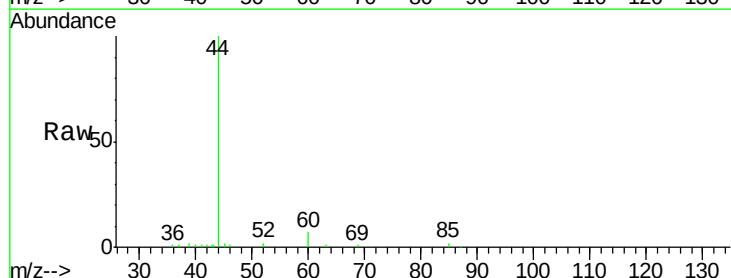
Acq: 29 Jun 2018 17:38

Tgt Ion: 85 Resp: 150

Ion Ratio Lower Upper

85 100

87 31.7 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

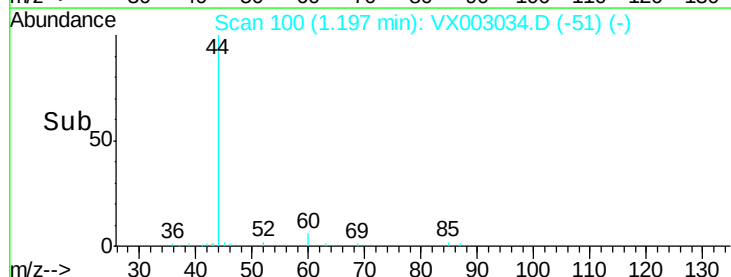
150

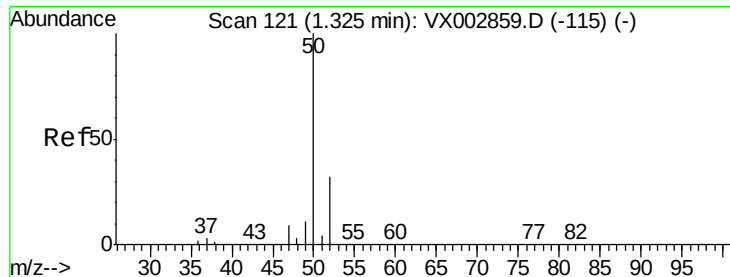
100

50

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003034.D

Acq: 29 Jun 2018 17:38

Instrument :

MSVOA_X

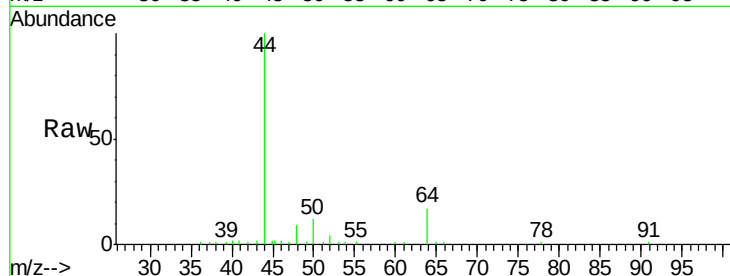
ClientSampleId :

Tot Ion: 50 Resp: 1008

Ion Ratio Lower Upper

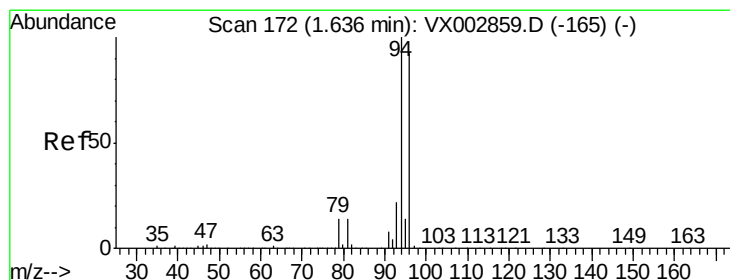
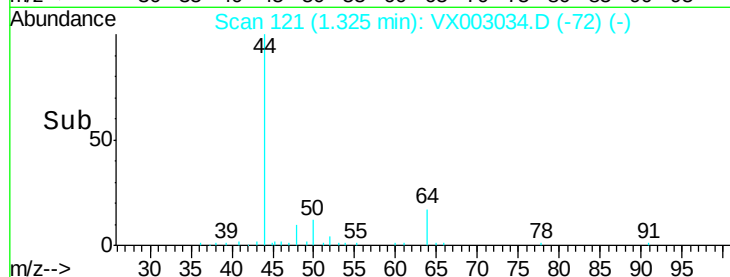
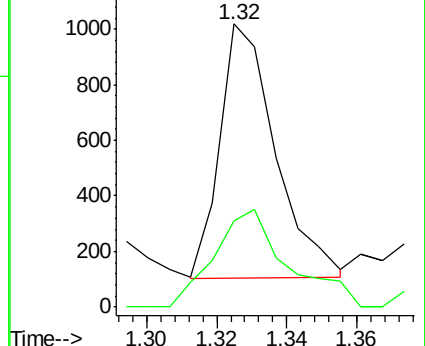
50 100

52 24.5 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003034.D

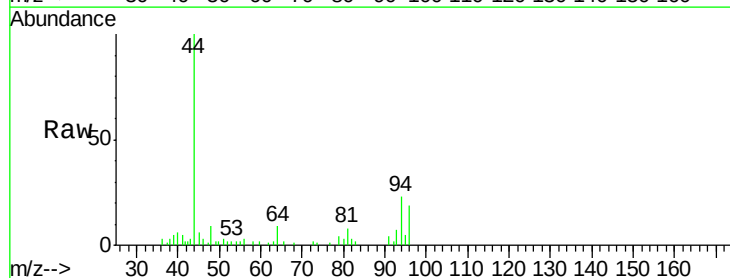
Acq: 29 Jun 2018 17:38

Tgt Ion: 94 Resp: 1014

Ion Ratio Lower Upper

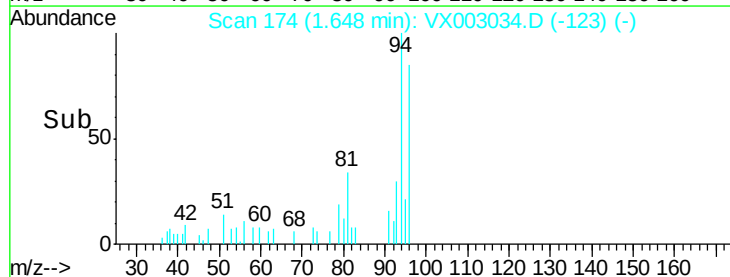
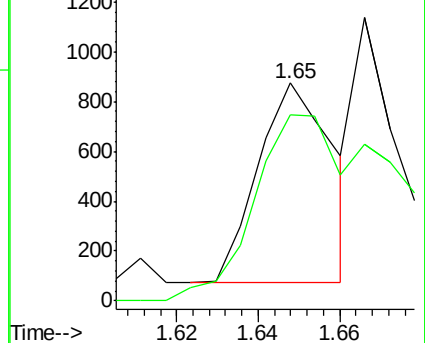
94 100

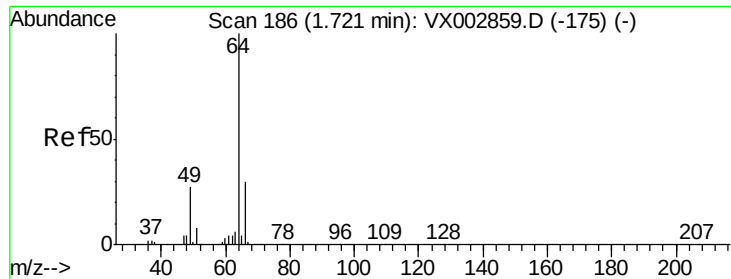
96 86.5 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX003034.D

Acq: 29 Jun 2018 17:38

Instrument :

MSVOA_X

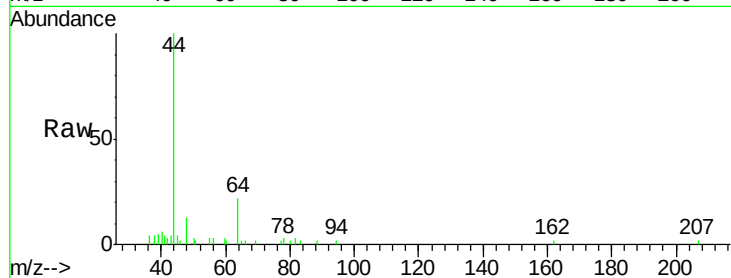
ClientSampled :

Tot Ion: 64 Resp: 142

Ion Ratio Lower Upper

64 100

66 46.3 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

800

600

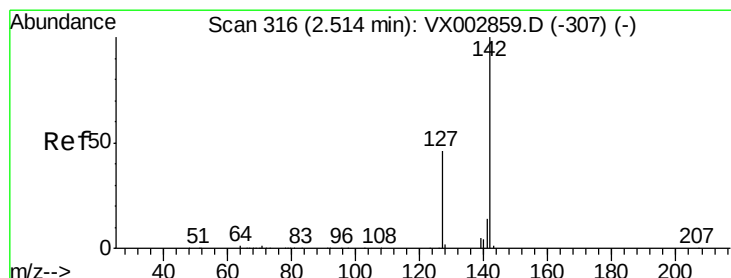
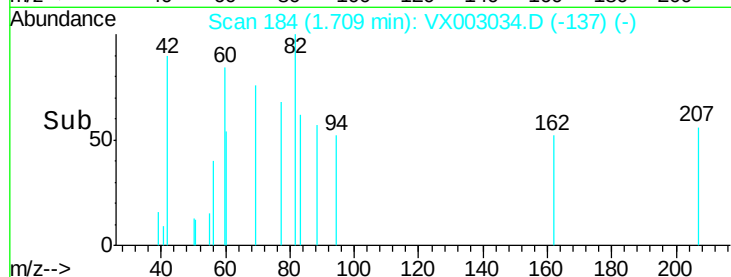
400

200

0

1.70 1.72

Time-->



#10

Methyl Iodide

Concen: 6.76 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX003034.D

Acq: 29 Jun 2018 17:38

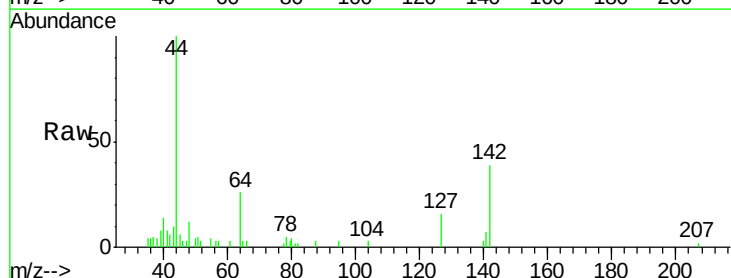
Tgt Ion: 142 Resp: 1832

Ion Ratio Lower Upper

142 100

127 45.7 36.6 55.0

141 18.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

1000

800

600

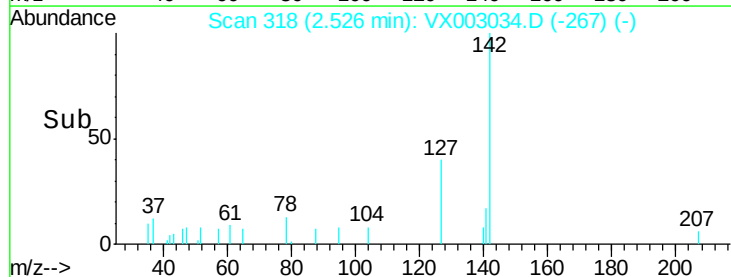
400

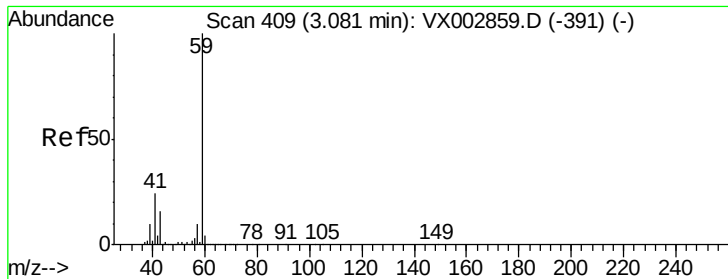
200

0

2.45 2.50 2.55 2.60

Time-->

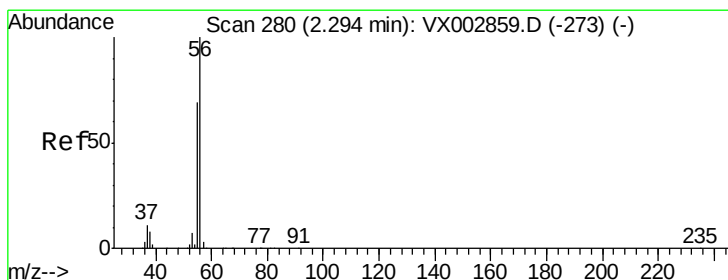
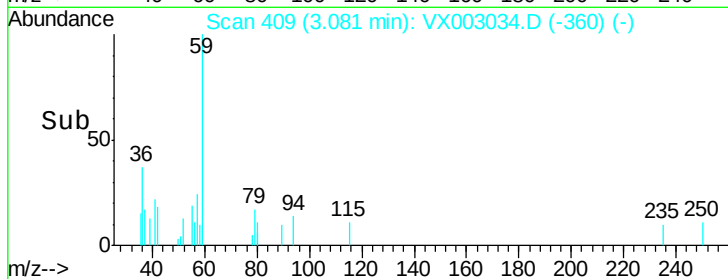
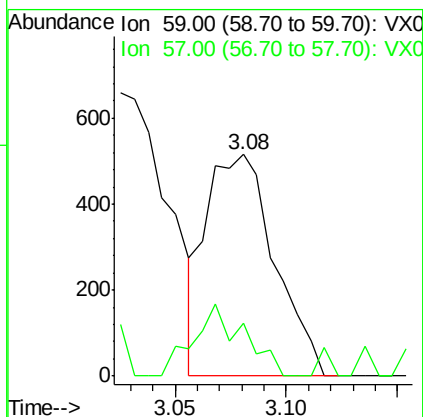
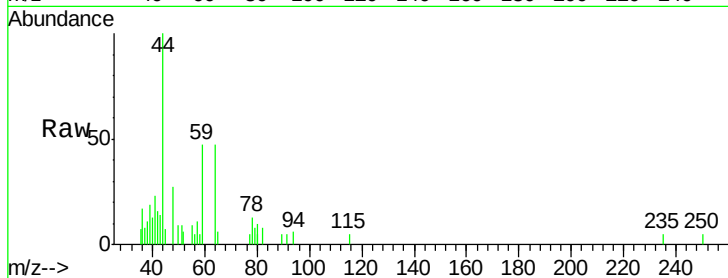




#11
Tert butyl alcohol
Concen: 1.49 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.00 min
Lab File: VX003034.D
Acq: 29 Jun 2018 17:38

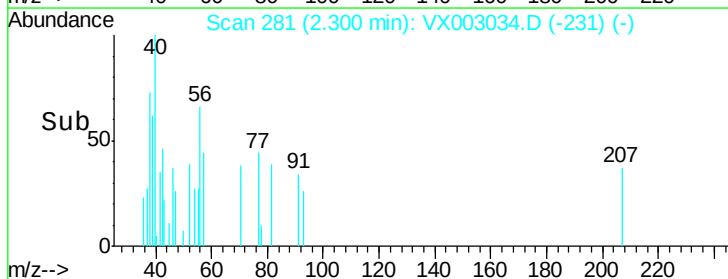
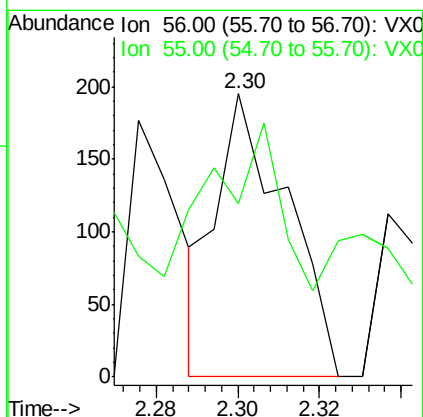
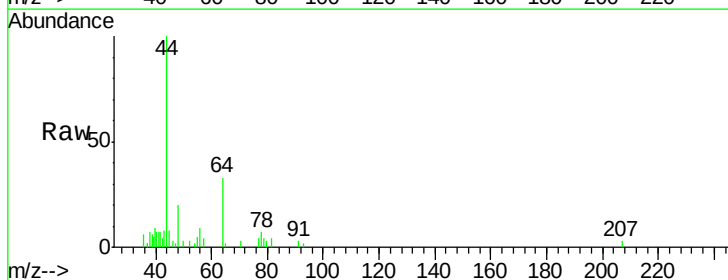
Instrument :
MSVOA_X
ClientSampled :

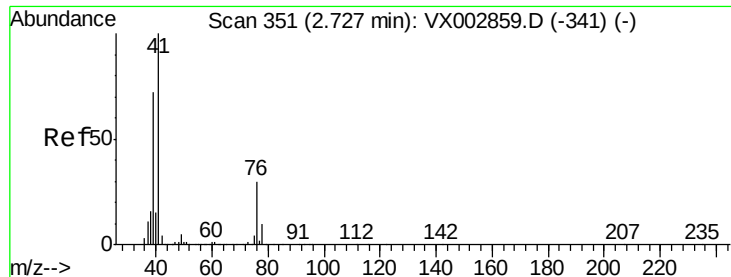
Tot Ion: 59 Resp: 1093
Ion Ratio Lower Upper
59 100
57 24.2 8.2 12.2#



#13
Acrolein
Concen: 4.79 ug/l
RT: 2.30 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX003034.D
Acq: 29 Jun 2018 17:38

Tgt Ion: 56 Resp: 231
Ion Ratio Lower Upper
56 100
55 55.8 57.0 85.4#

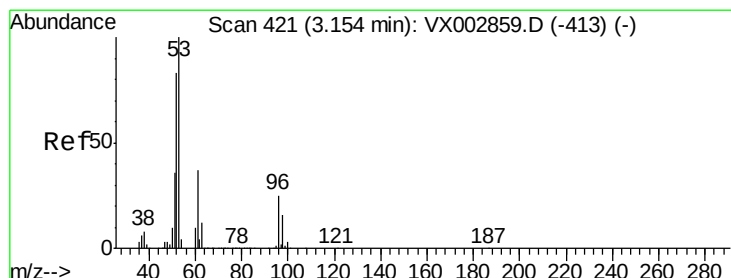
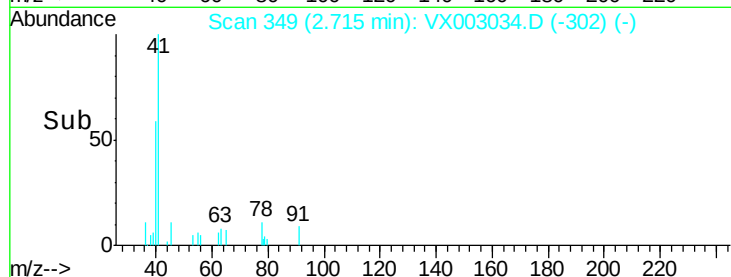
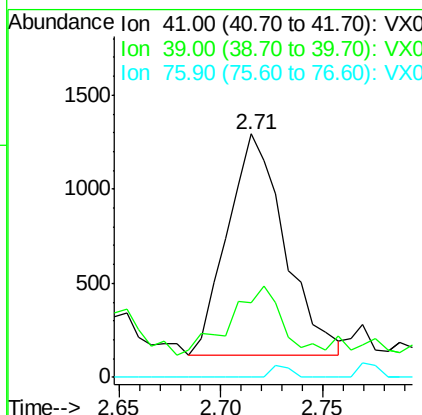
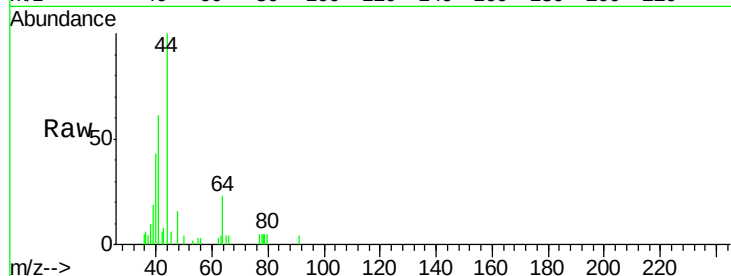




#14
Allvl chloride
Concen: 0.44 ug/l
RT: 2.71 min Scan# 349
Delta R.T. -0.01 min
Lab File: VX003034.D
Acq: 29 Jun 2018 17:38

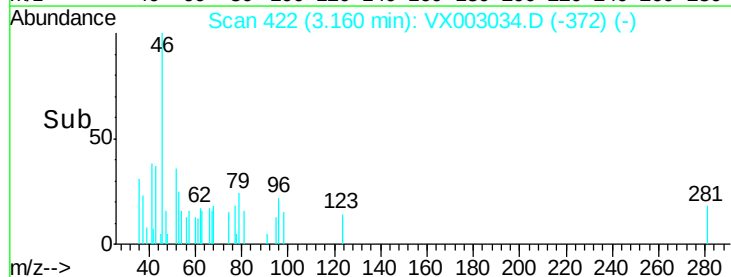
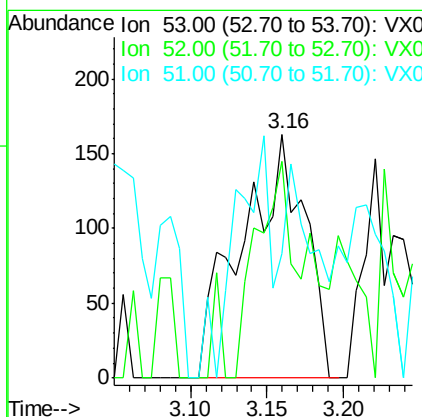
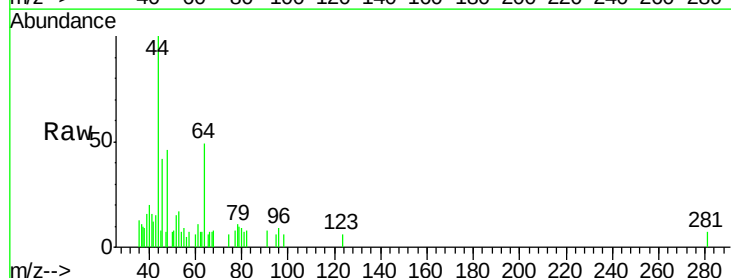
Instrument :
MSVOA_X
ClientSampleId :

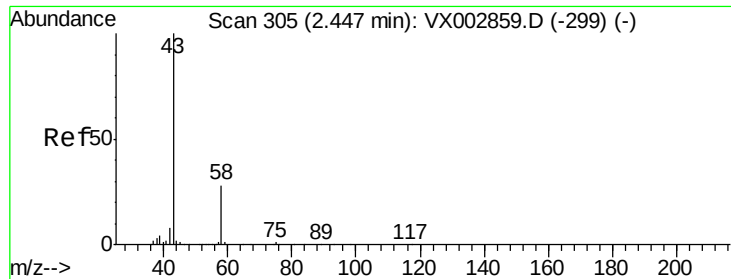
Tot Ion: 41 Resp: 2286
Ion Ratio Lower Upper
41 100
39 28.3 56.8 85.2#
76 0.0 23.8 35.8#



#15
Acrylonitrile
Concen: 0.30 ug/l
RT: 3.16 min Scan# 422
Delta R.T. 0.01 min
Lab File: VX003034.D
Acq: 29 Jun 2018 17:38

Tgt Ion: 53 Resp: 466
Ion Ratio Lower Upper
53 100
52 51.9 66.7 100.1#
51 37.6 29.9 44.9





#16

Acetone

Concen: 20.97 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003034.D

Acq: 29 Jun 2018 17:38

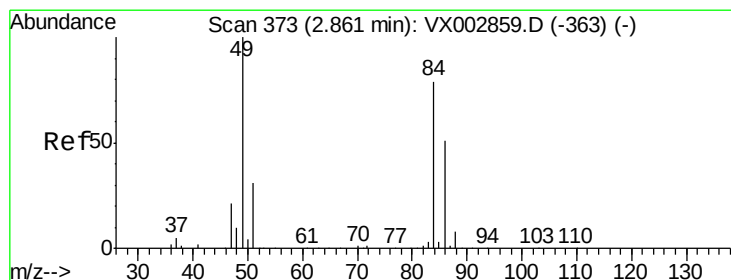
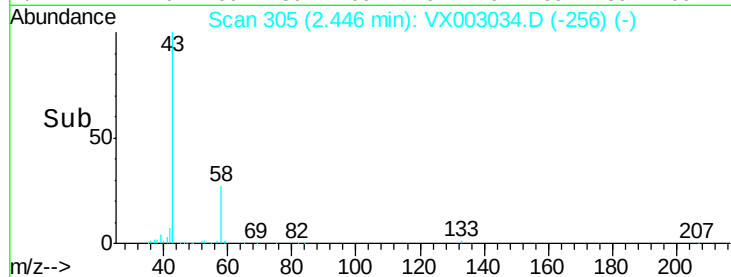
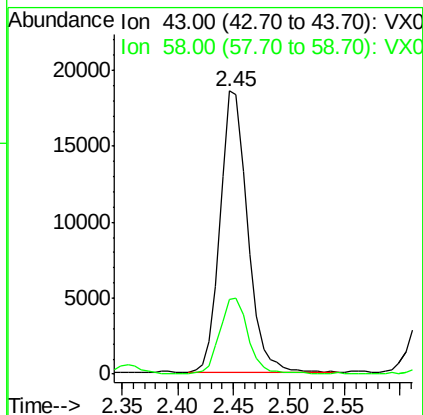
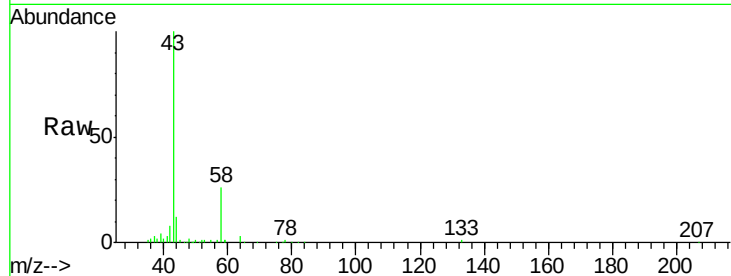
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 31997

Ion Ratio Lower Upper

43 100

58 26.6 22.1 33.1



#20

Methylene Chloride

Concen: 0.36 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX003034.D

Acq: 29 Jun 2018 17:38

Tgt Ion: 84 Resp: 1067

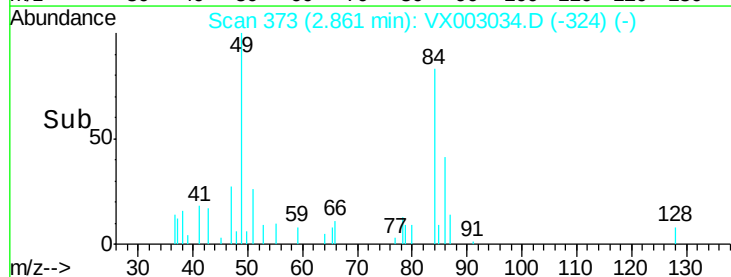
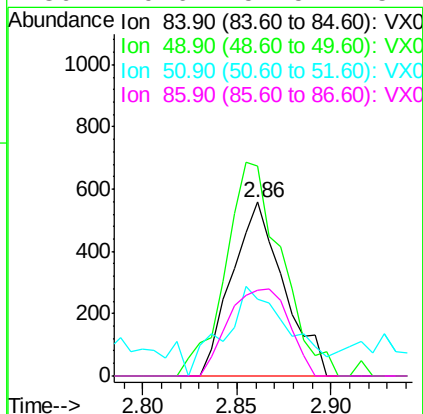
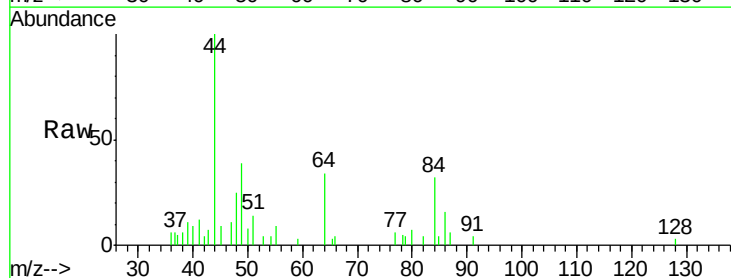
Ion Ratio Lower Upper

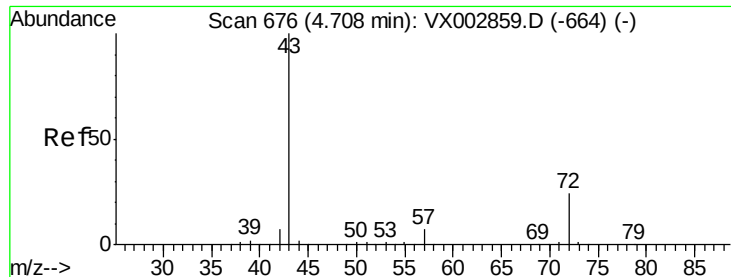
84 100

49 121.0 107.8 161.6

51 44.3 32.8 49.2

86 49.6 52.5 78.7#

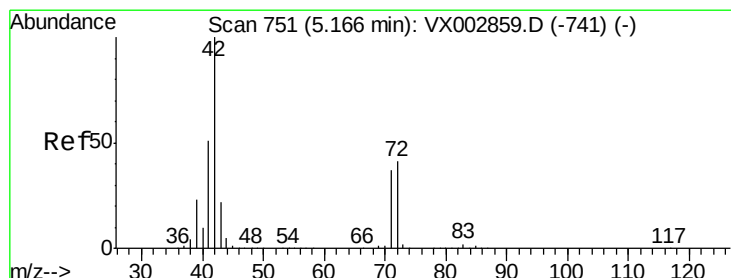
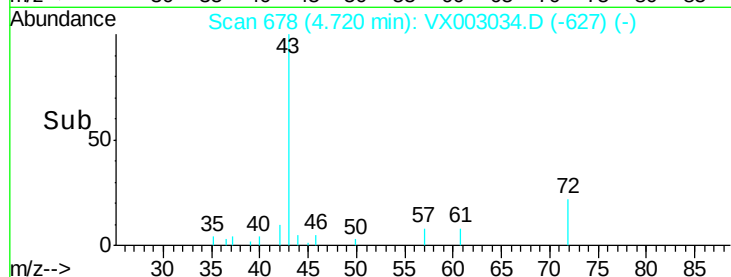
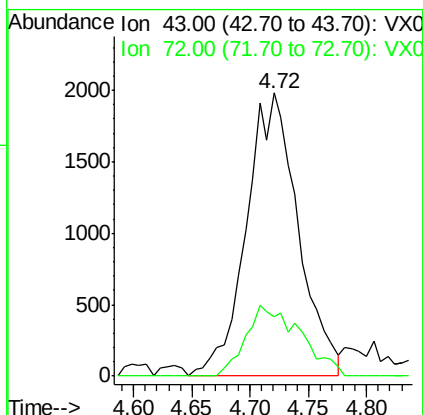
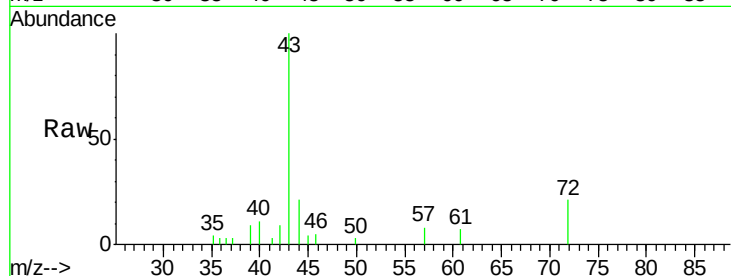




#25
2-Butanone
Concen: 2.72 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX003034.D
Acq: 29 Jun 2018 17:38

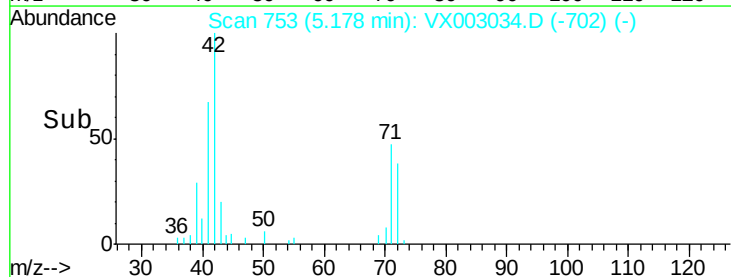
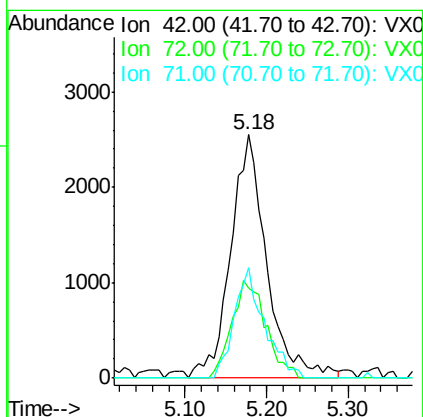
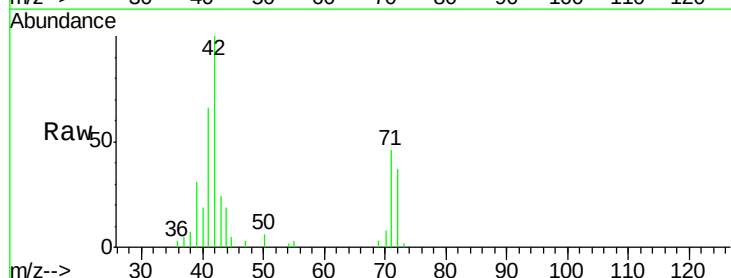
Instrument :
MSVOA_X
ClientSampled :

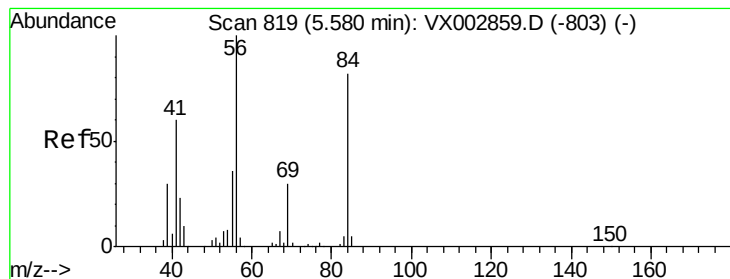
Tot Ion: 43 Resp: 6150
Ion Ratio Lower Upper
43 100
72 21.1 18.5 27.7



#29
Tetrahydrofuran
Concen: 5.37 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX003034.D
Acq: 29 Jun 2018 17:38

Tgt Ion: 42 Resp: 7792
Ion Ratio Lower Upper
42 100
72 37.9 32.0 48.0
71 37.7 30.1 45.1





#31

Cyclohexane

Concen: 1.05 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX003034.D

Acq: 29 Jun 2018 17:38

Instrument :

MSVOA_X

ClientSampleId :

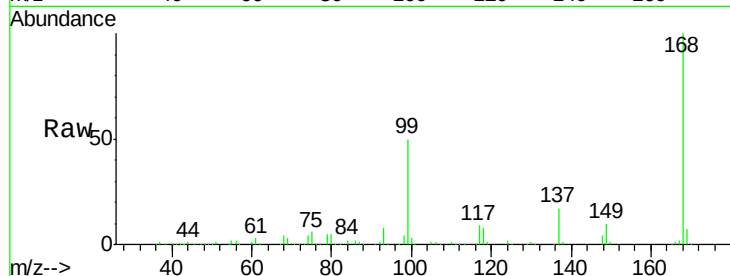
Tot Ion: 56 Resp: 4841

Ion Ratio Lower Upper

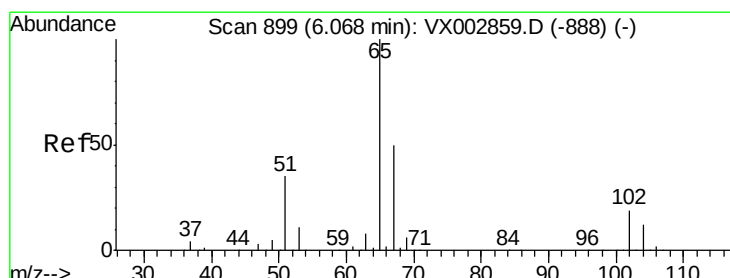
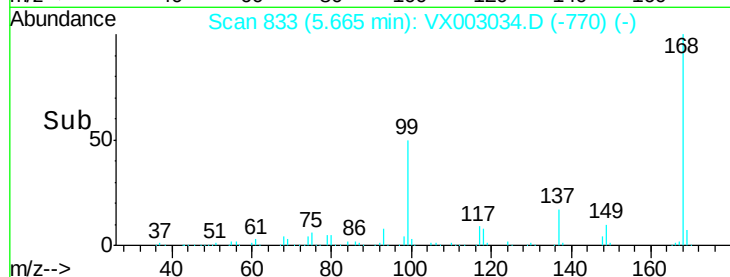
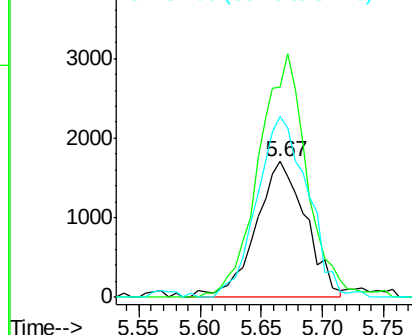
56 100

69 155.1 23.7 35.5#

84 130.8 64.1 96.1#



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: 48.20 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003034.D

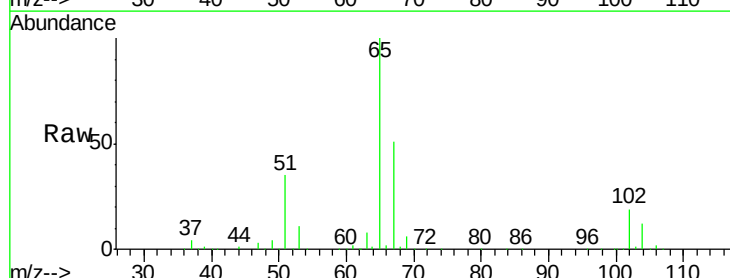
Acq: 29 Jun 2018 17:38

Tgt Ion: 65 Resp: 177566

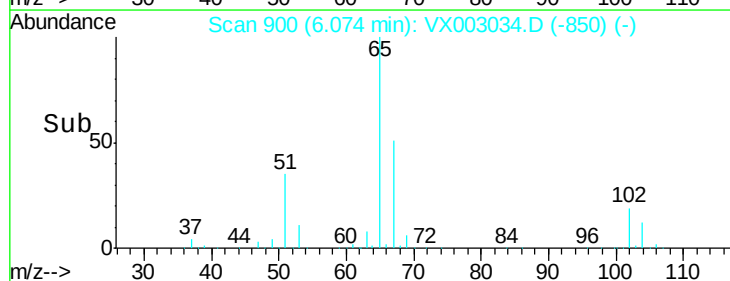
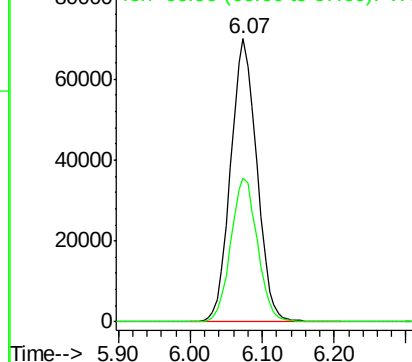
Ion Ratio Lower Upper

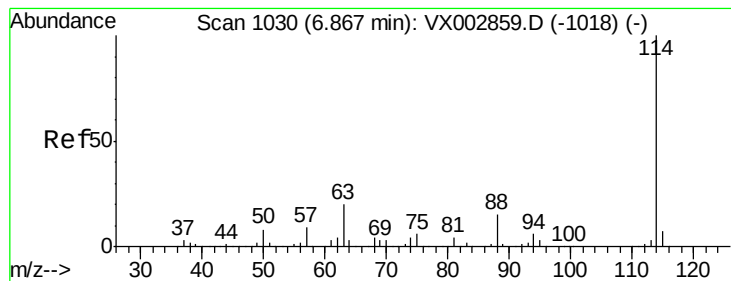
65 100

67 51.5 0.0 102.6



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX003034.D

Acq: 29 Jun 2018 17:38

Instrument :

MSVOA_X

ClientSampleId :

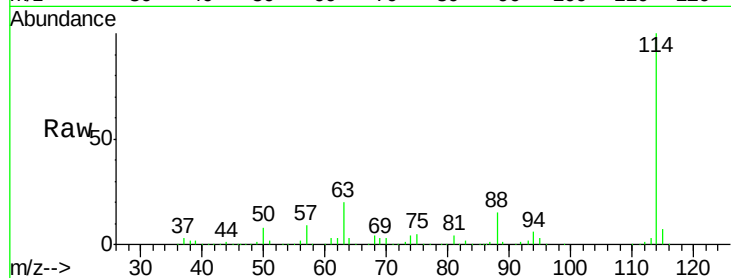
Tot Ion:114 Resp: 369817

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.4

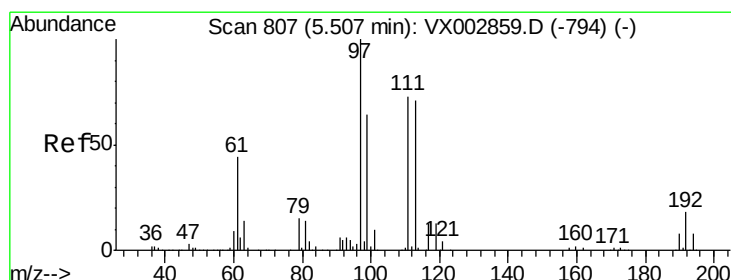
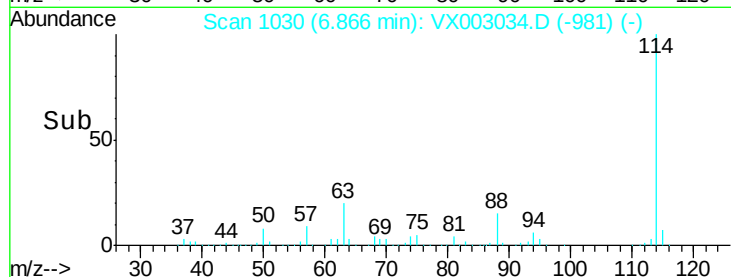
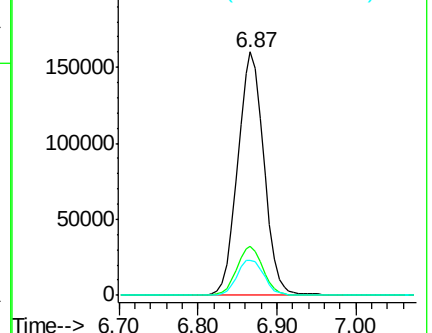
88 14.6 0.0 30.0



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: 48.85 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003034.D

Acq: 29 Jun 2018 17:38

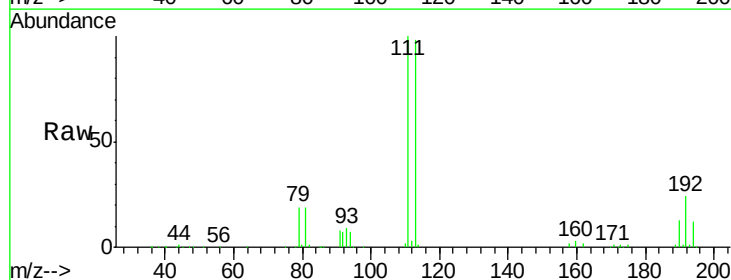
Tgt Ion:113 Resp: 143076

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

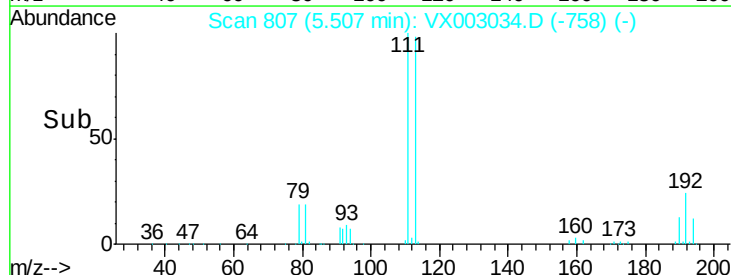
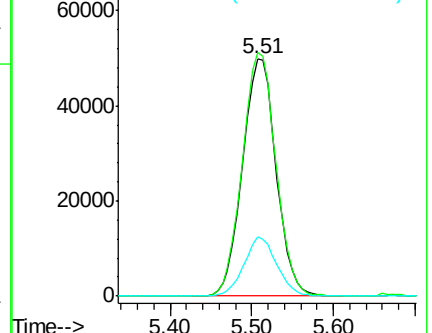
192 24.2 19.1 28.7

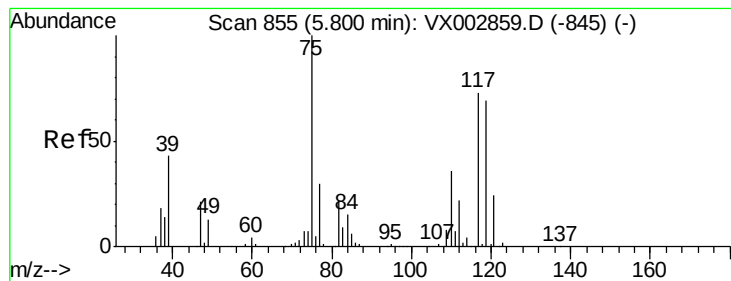


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.42 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003034.D

Acq: 29 Jun 2018 17:38

Instrument :

MSVOA_X

ClientSampleId :

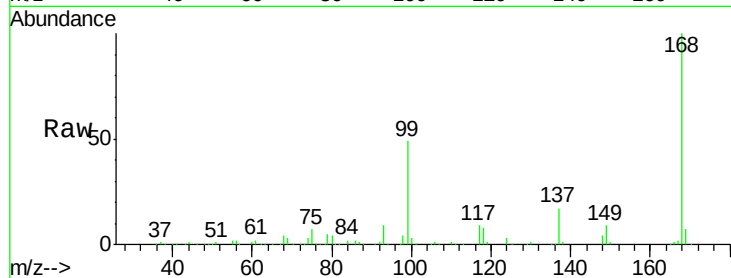
Tot Ion: 75 Resp: 17917

Ion Ratio Lower Upper

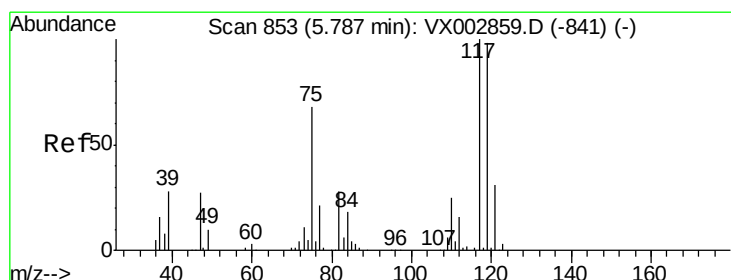
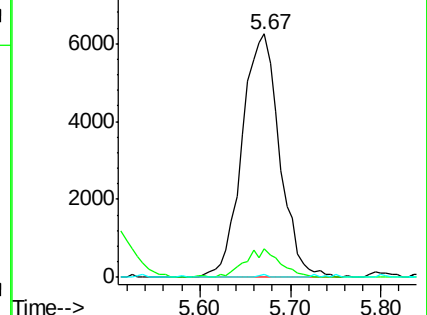
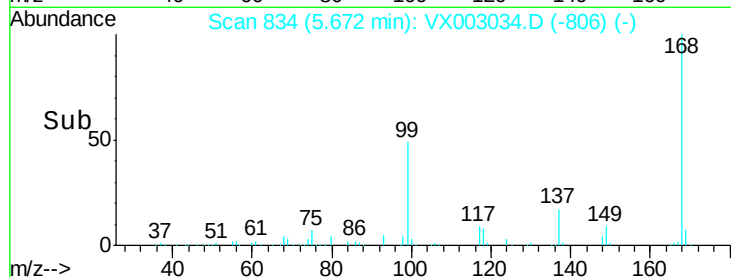
75 100

110 10.9 18.1 54.4#

77 0.3 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX003034.D (-806) (-)



#38

Carbon Tetrachloride

Concen: 5.35 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003034.D

Acq: 29 Jun 2018 17:38

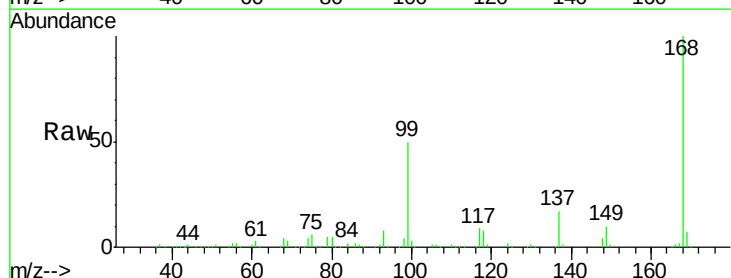
Tgt Ion: 117 Resp: 23804

Ion Ratio Lower Upper

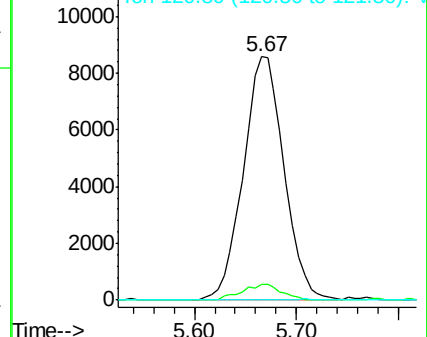
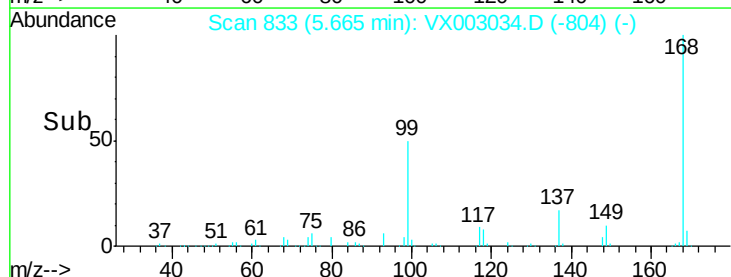
117 100

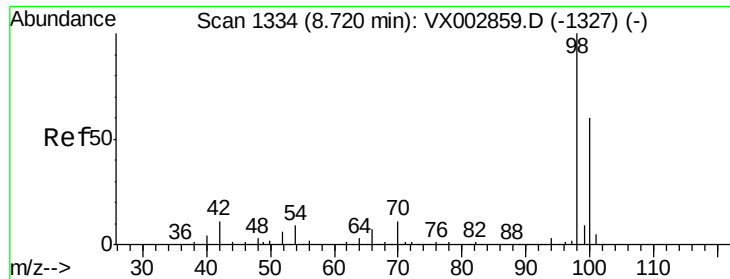
119 6.5 77.4 116.0#

121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): VX003034.D (-804) (-)

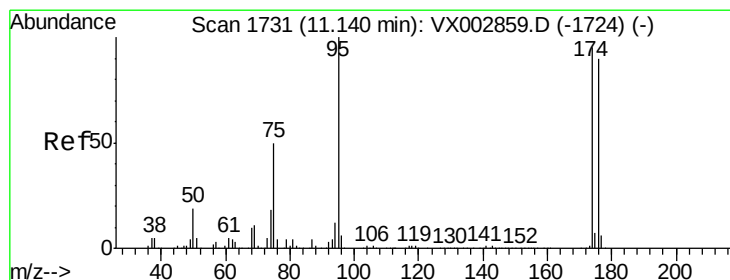
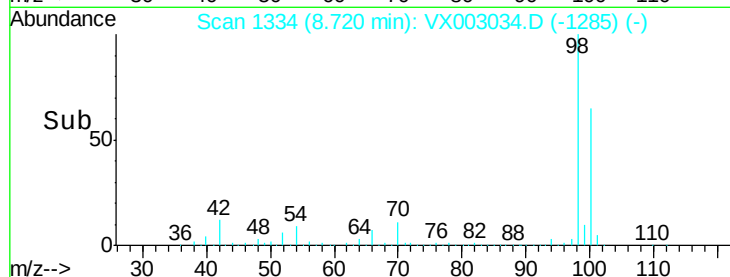
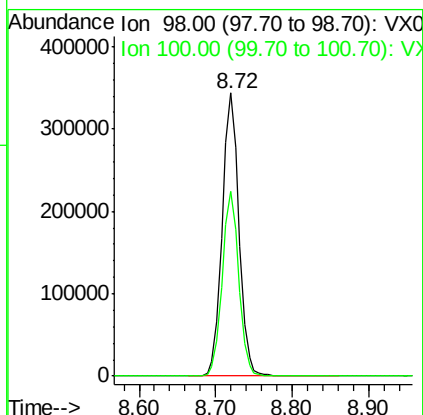
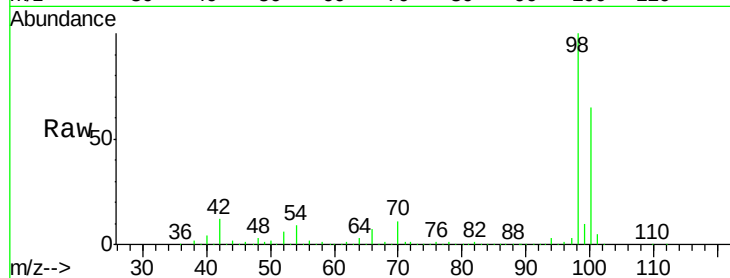




#50
Toluene-d8
Concen: 48.60 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003034.D
Acq: 29 Jun 2018 17:38

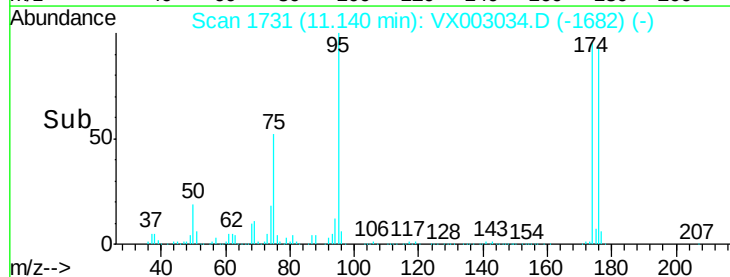
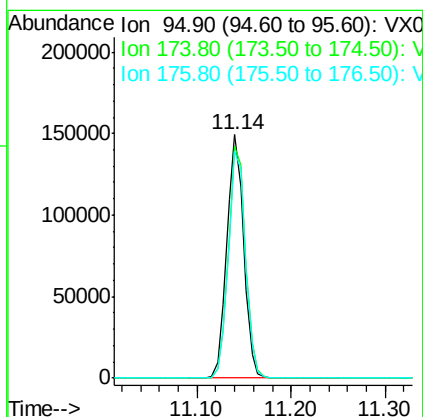
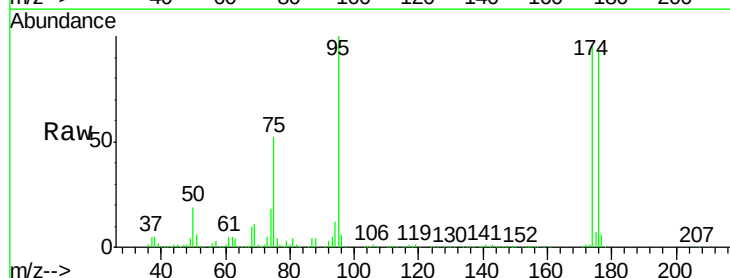
Instrument :
MSVOA_X
ClientSampleId :

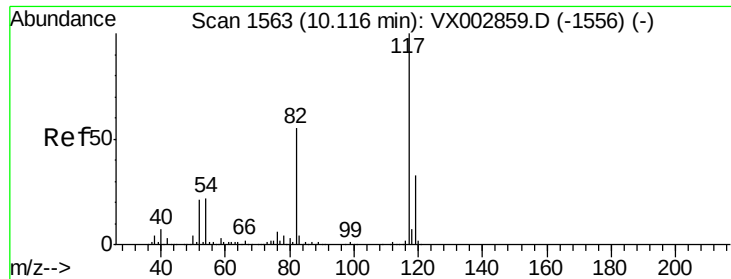
Tot Ion: 98 Resp: 519740
Ion Ratio Lower Upper
98 100
100 64.4 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 44.94 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003034.D
Acq: 29 Jun 2018 17:38

Tgt Ion: 95 Resp: 185332
Ion Ratio Lower Upper
95 100
174 97.3 0.0 187.4
176 94.8 0.0 181.0

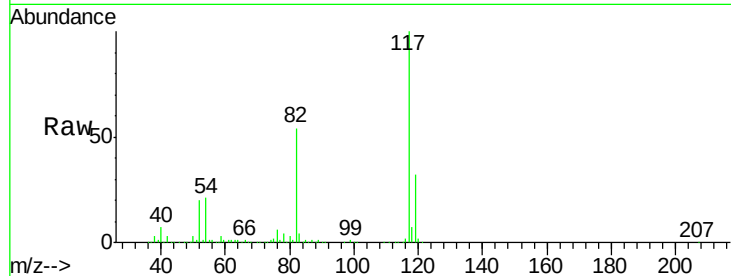




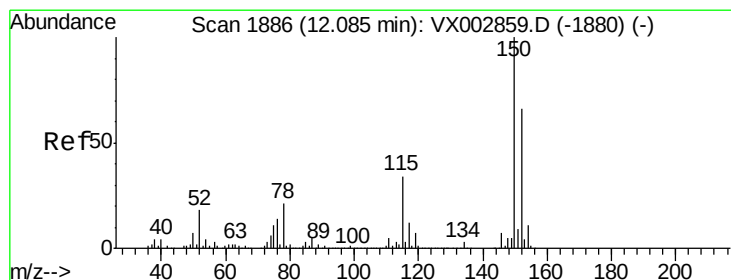
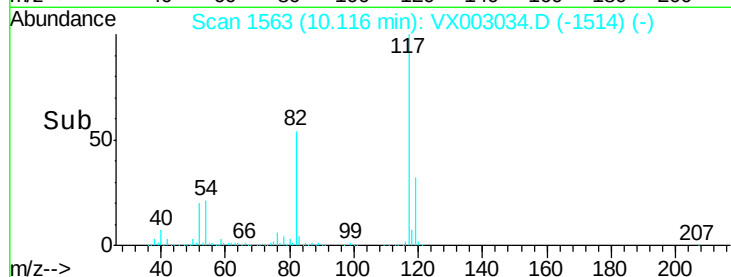
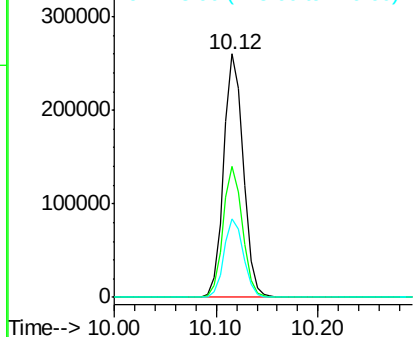
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003034.D
Acq: 29 Jun 2018 17:38

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 348482
Ion Ratio Lower Upper
117 100
82 53.6 45.0 67.4
119 32.3 25.8 38.6

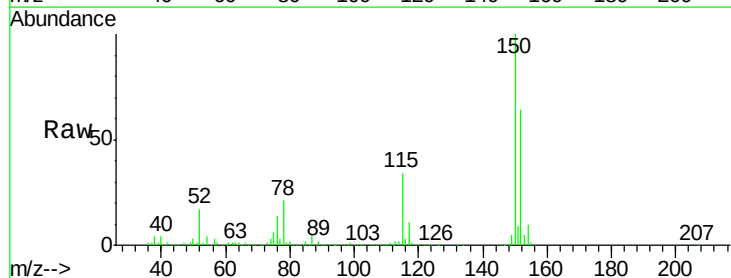


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

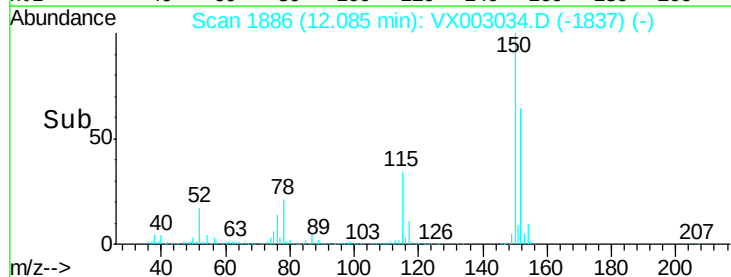
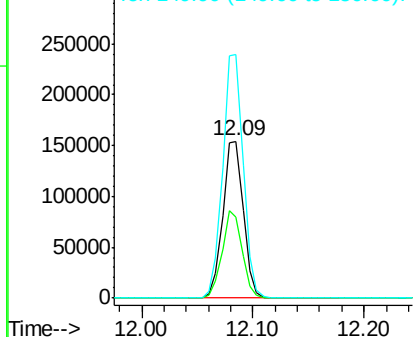


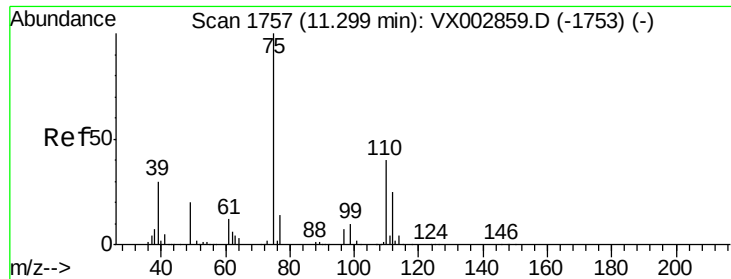
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX003034.D
Acq: 29 Jun 2018 17:38

Tgt Ion:152 Resp: 196571
Ion Ratio Lower Upper
152 100
115 54.1 40.1 120.2
150 155.7 0.0 347.2



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: 27.00 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003034.D

Acq: 29 Jun 2018 17:38

Instrument :

MSVOA_X

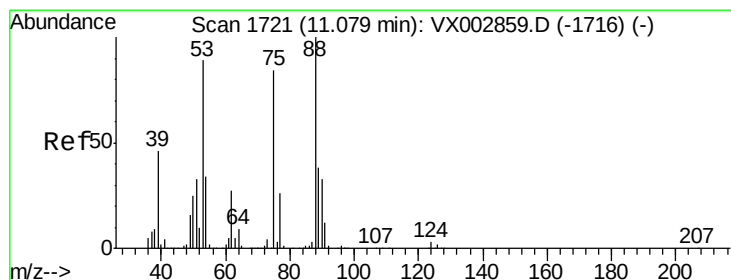
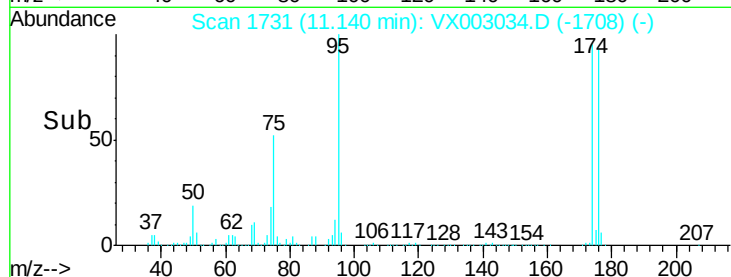
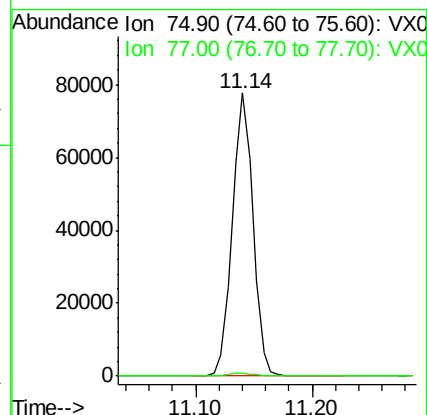
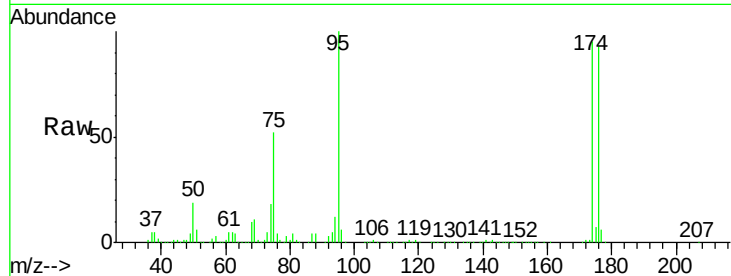
ClientSampleId :

Tot Ion: 75 Resp: 96139

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 76.43 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003034.D

Acq: 29 Jun 2018 17:38

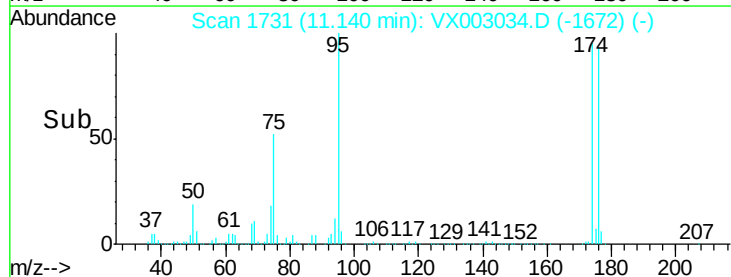
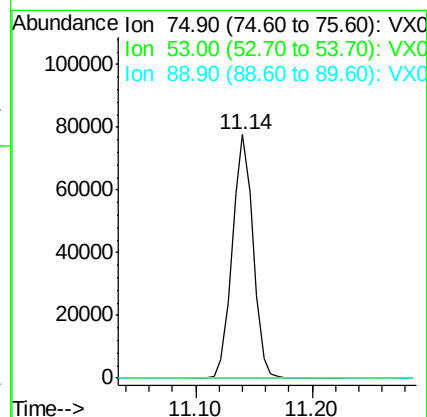
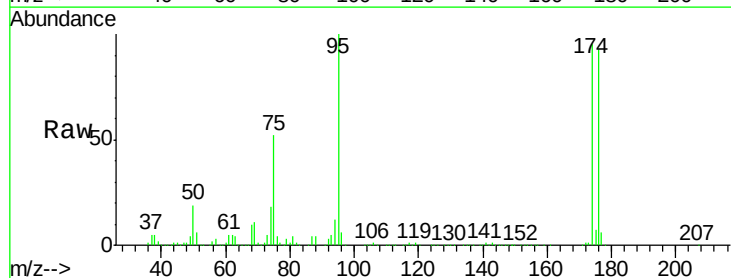
Tgt Ion: 75 Resp: 96139

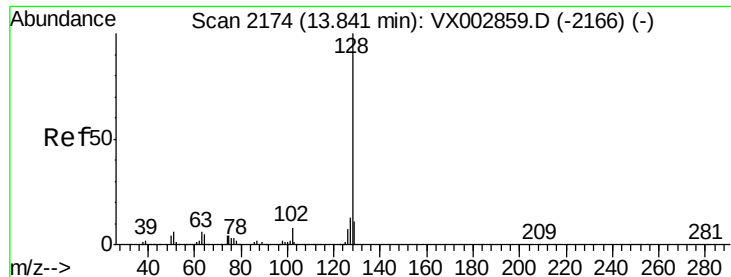
Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#

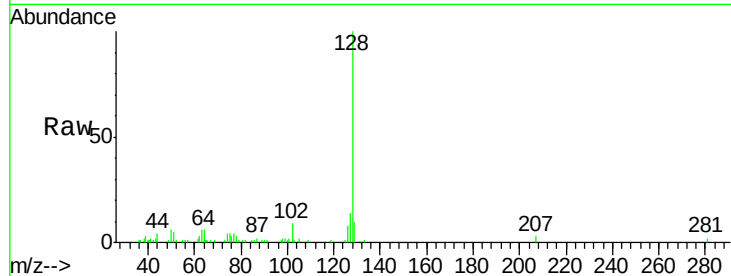




#95
 Naphthalene
 Concen: 0.69 ug/l
 RT: 13.84 min Scan# 2174
 Delta R.T. -0.00 min
 Lab File: VX003034.D
 Acq: 29 Jun 2018 17:38

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.4	15.6
129	11.8	8.6	13.0



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

