

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070618\
 Data File : VX003234.D
 Acq On : 07 Jul 2018 01:07
 Operator : JC/MD
 Sample : J3878-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 07 03:16:37 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	259480	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	359620	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	333563	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	186724	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	165445	46.13	ug/l	0.00
Spiked Amount 50.000			Recovery =	92.26%		
35) Dibromofluoromethane	5.51	113	140382	49.29	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.58%		
50) Toluene-d8	8.72	98	497650	47.85	ug/l	0.00
Spiked Amount 50.000			Recovery =	95.70%		
62) 4-Bromofluorobenzene	11.14	95	170817	42.59	ug/l	0.00
Spiked Amount 50.000			Recovery =	85.18%		

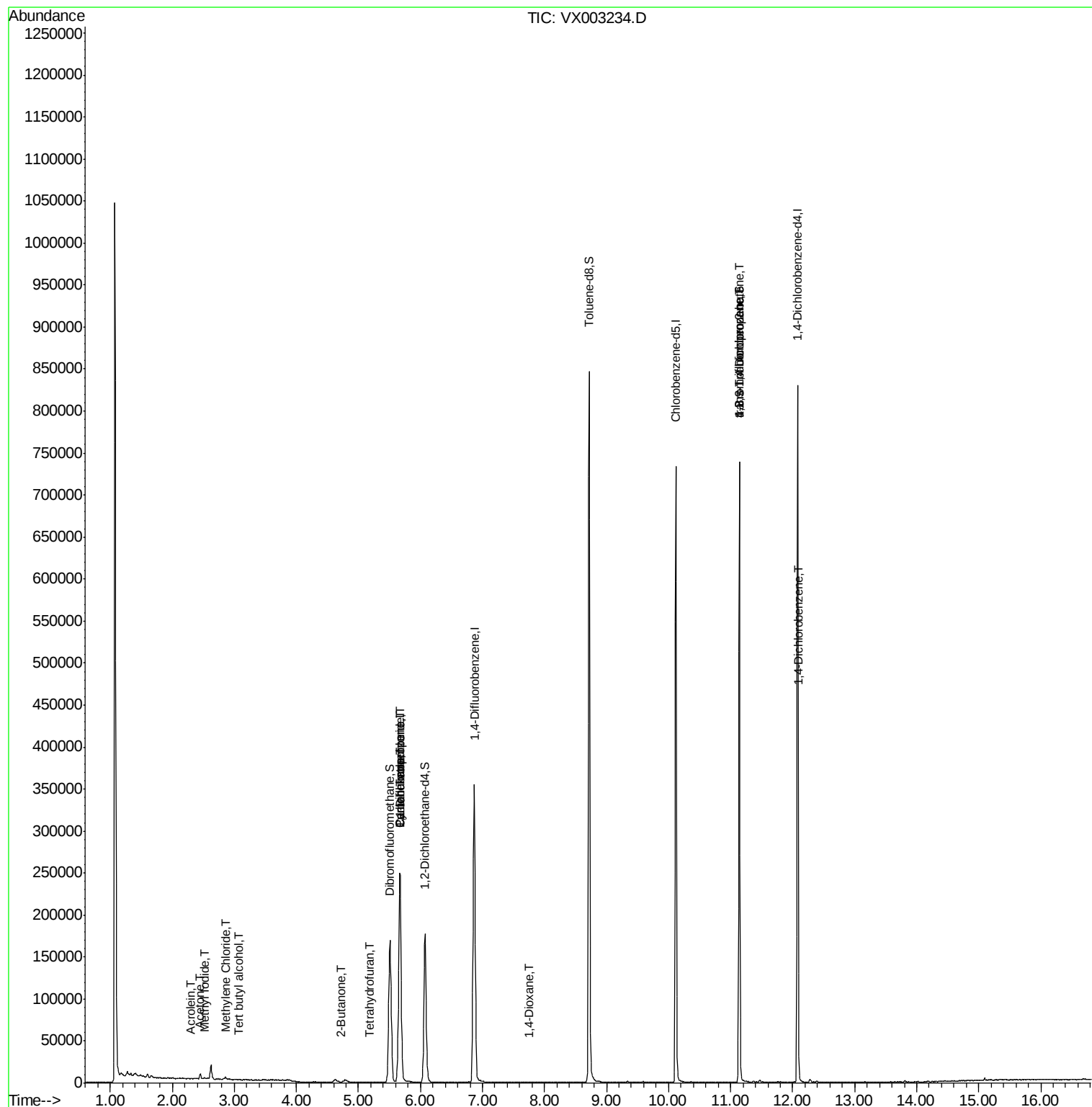
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	48	Below Cal	#	43
3) Chloromethane	1.32	50	1366	Below Cal	#	81
5) Bromomethane	1.65	94	1812	Below Cal		94
6) Chloroethane	1.70	64	174	Below Cal	#	43
10) Methyl Iodide	2.52	142	1648	6.72	ug/l	94
11) Tert butyl alcohol	3.07	59	300	0.42	ug/l #	1
13) Acrolein	2.30	56	170	4.65	ug/l #	30
16) Acetone	2.45	43	6713	4.52	ug/l	98
20) Methylene Chloride	2.86	84	1016	0.35	ug/l #	70
25) 2-Butanone	4.71	43	470	0.21	ug/l #	75
29) Tetrahydrofuran	5.18	42	338	0.24	ug/l #	58
31) Cyclohexane	5.66	56	4719	1.05	ug/l #	5
36) 1,1-Dichloropropene	5.67	75	16649	4.22	ug/l #	51
38) Carbon Tetrachloride	5.67	117	22771	5.26	ug/l #	15
49) 1,4-Dioxane	7.76	88	40	0.56	ug/l #	20
76) 1,2,3-Trichloropropane	11.14	75	86581	25.60	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	86581	72.64	ug/l #	7
88) 1,4-Dichlorobenzene	12.10	146	1458	0.22	ug/l #	1

(#) = 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: VX003234.D

Acq: 07 Jul 2018 01:07

Instrument :

MSVOA_X

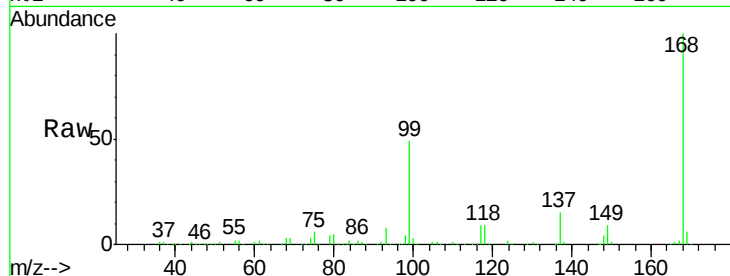
ClientSampleId :

Tot Ion:168 Resp: 259480

Ion Ratio Lower Upper

168 100

99 48.7 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

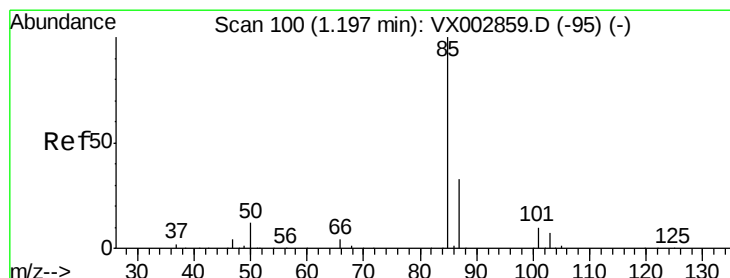
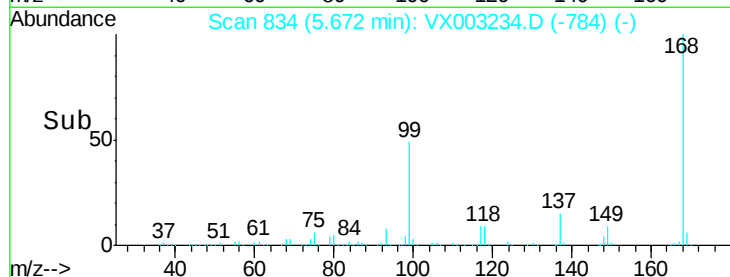
60000

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: VX003234.D

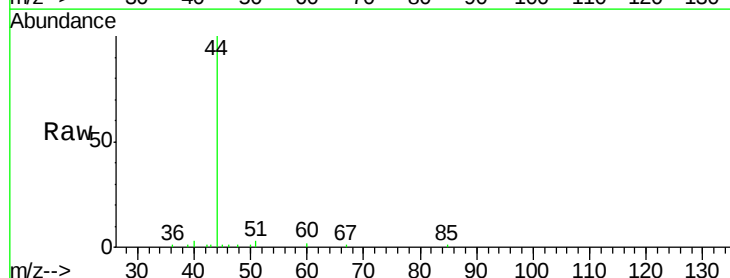
Acq: 07 Jul 2018 01:07

Tgt Ion: 85 Resp: 48

Ion Ratio Lower Upper

85 100

87 0.0 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

80

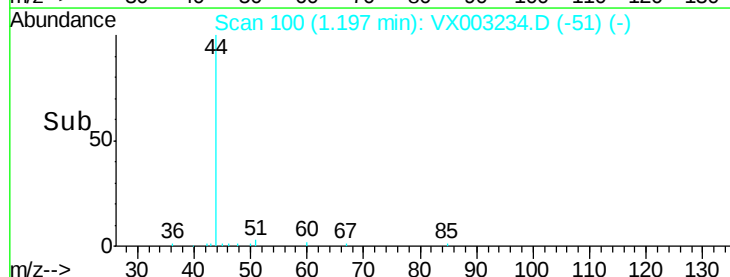
60

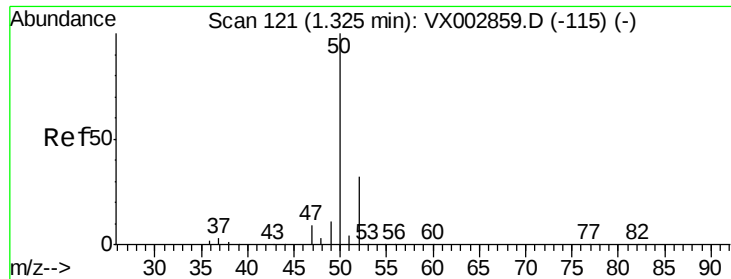
40

20

0

Time--> 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: VX003234.D

Acq: 07 Jul 2018 01:07

Instrument :

MSVOA_X

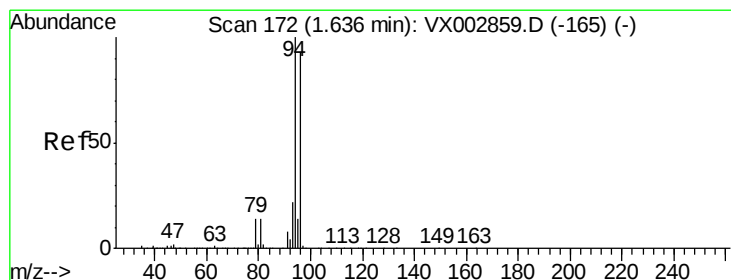
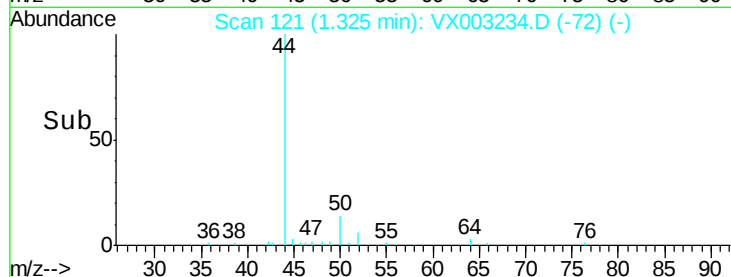
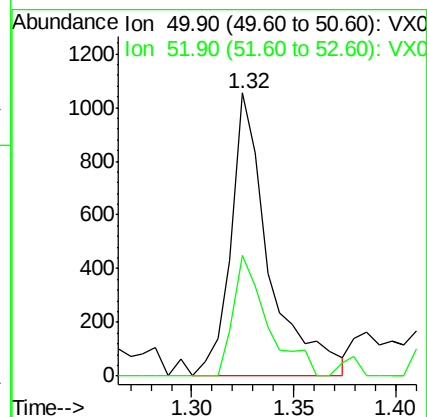
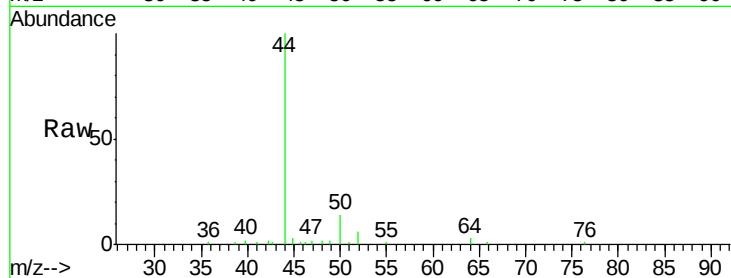
ClientSampleId :

Tot Ion: 50 Resp: 1366

Ion Ratio Lower Upper

50 100

52 42.8 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003234.D

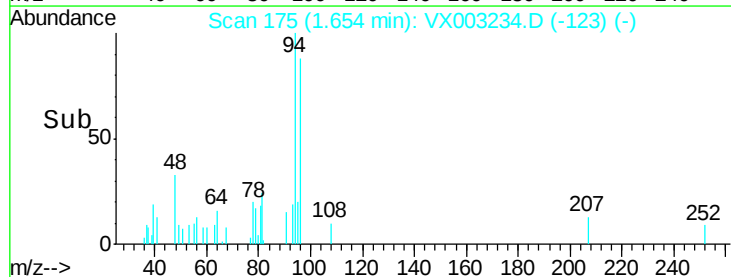
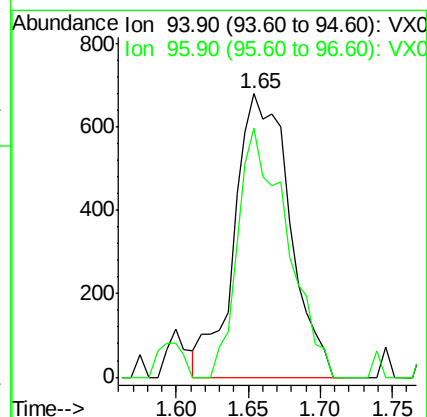
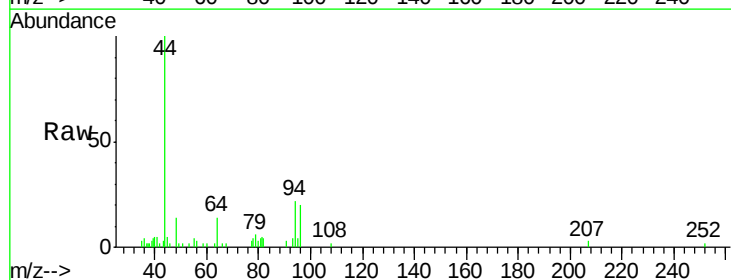
Acq: 07 Jul 2018 01:07

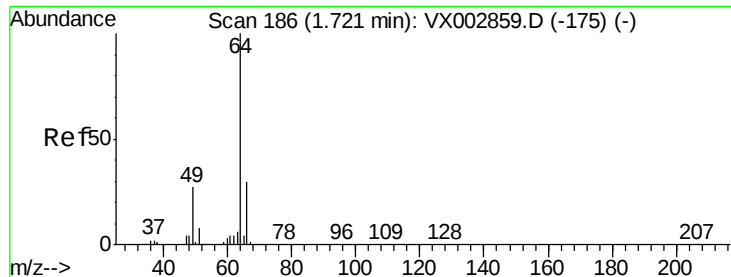
Tgt Ion: 94 Resp: 1812

Ion Ratio Lower Upper

94 100

96 87.9 74.9 112.3





#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX003234.D

Acq: 07 Jul 2018 01:07

Instrument :

MSVOA_X

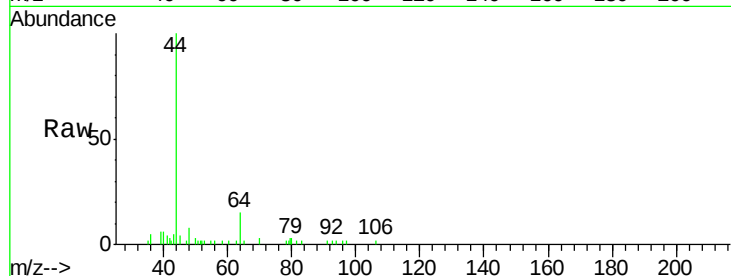
ClientSampled :

Tot Ion: 64 Resp: 174

Ion Ratio Lower Upper

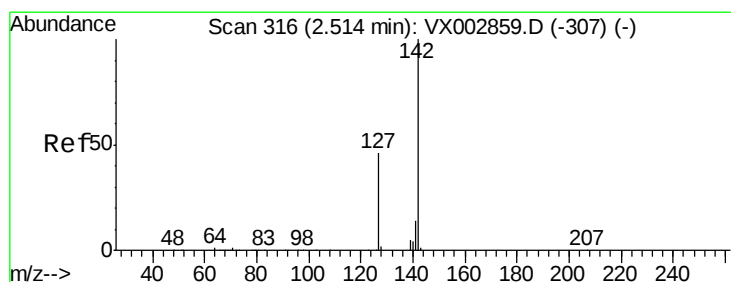
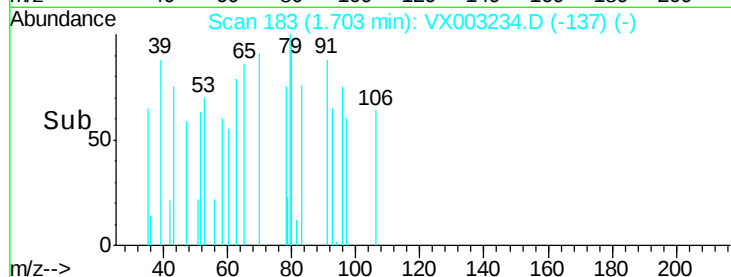
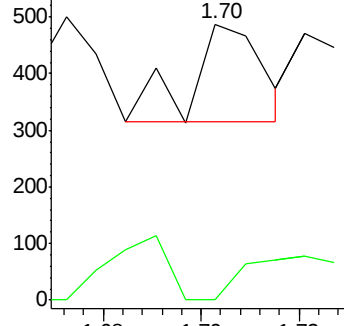
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 6.72 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003234.D

Acq: 07 Jul 2018 01:07

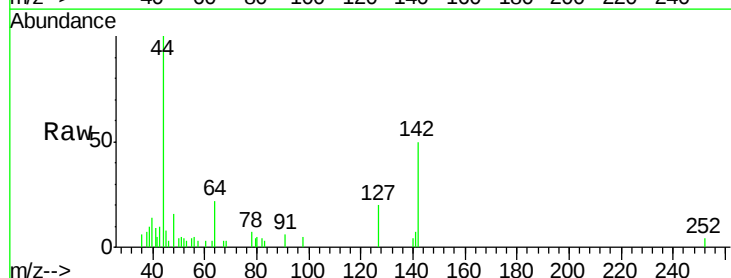
Tgt Ion:142 Resp: 1648

Ion Ratio Lower Upper

142 100

127 41.3 36.6 55.0

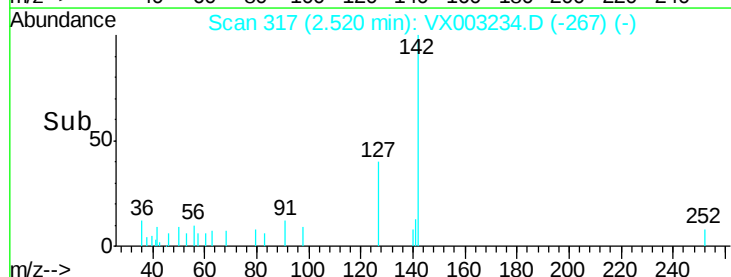
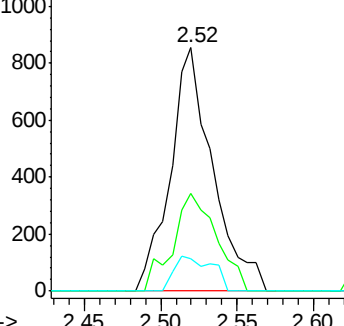
141 12.8 11.3 16.9

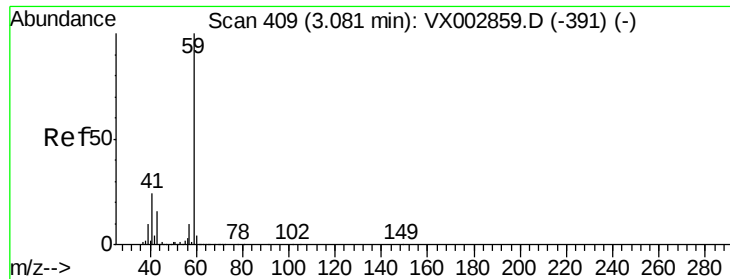


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



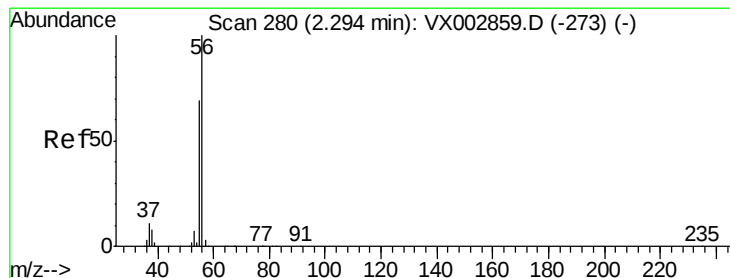
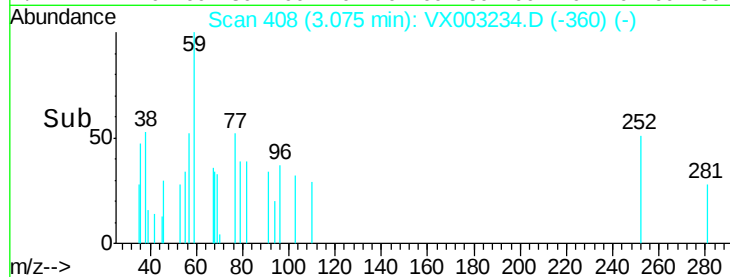
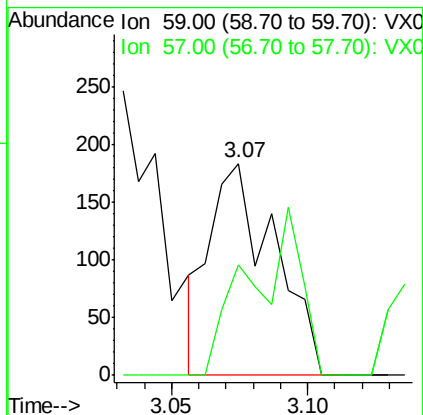
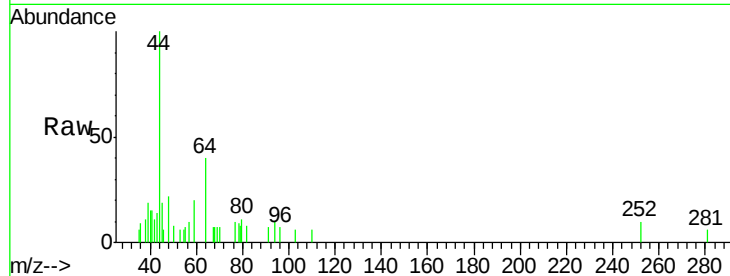


#11

Tert butyl alcohol
 Concen: 0.42 ug/l
 RT: 3.07 min Scan# 408
 Delta R.T. -0.01 min
 Lab File: VX003234.D
 Acq: 07 Jul 2018 01:07

Instrument :
 MSVOA_X
 ClientSampled :

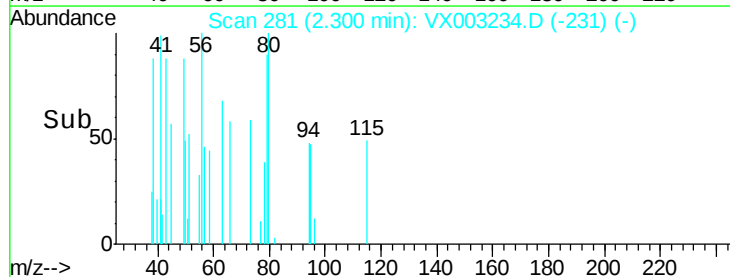
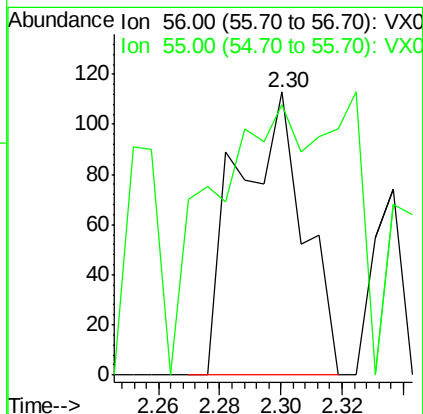
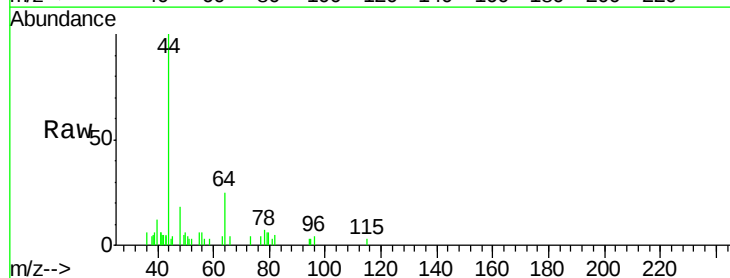
Tot Ion: 59 Resp: 300
 Ion Ratio Lower Upper
 59 100
 57 62.7 8.2 12.2#

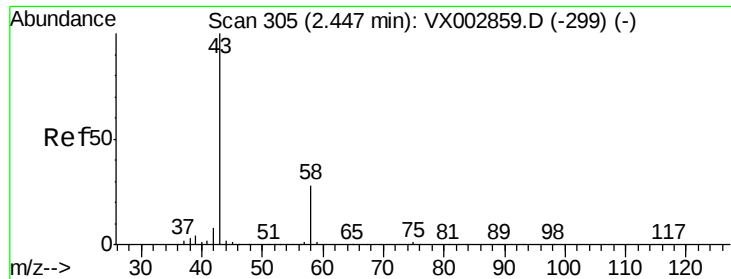


#13

Acrolein
 Concen: 4.65 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. 0.01 min
 Lab File: VX003234.D
 Acq: 07 Jul 2018 01:07

Tgt Ion: 56 Resp: 170
 Ion Ratio Lower Upper
 56 100
 55 129.4 57.0 85.4#





#16

Acetone

Concen: 4.52 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003234.D

Acq: 07 Jul 2018 01:07

Instrument :

MSVOA_X

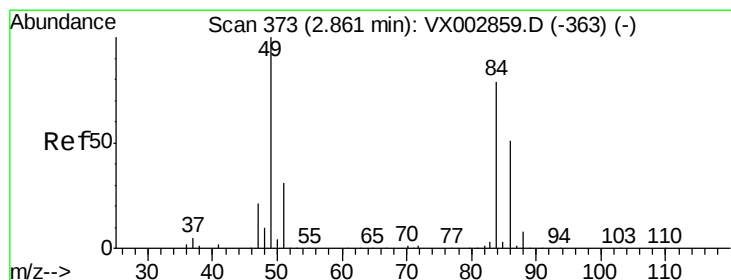
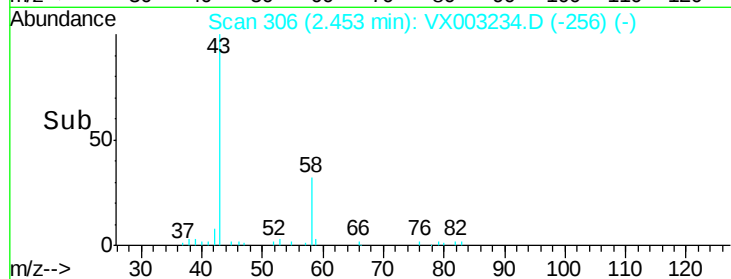
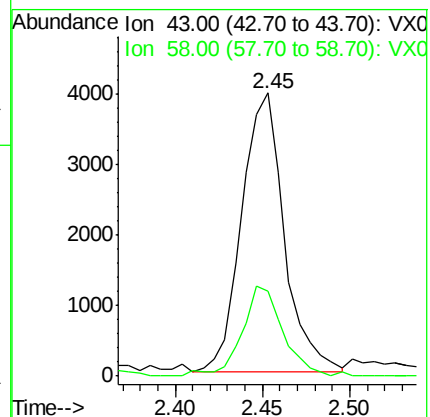
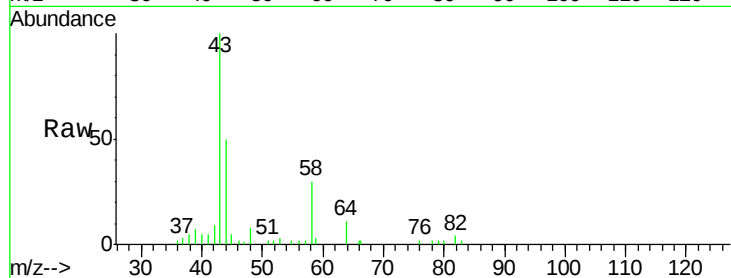
ClientSampleId :

Tot Ion: 43 Resp: 6713

Ion Ratio Lower Upper

43 100

58 28.9 22.1 33.1



#20

Methylene Chloride

Concen: 0.35 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.00 min

Lab File: VX003234.D

Acq: 07 Jul 2018 01:07

Tgt Ion: 84 Resp: 1016

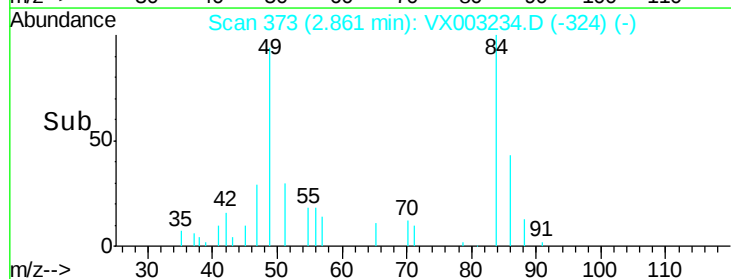
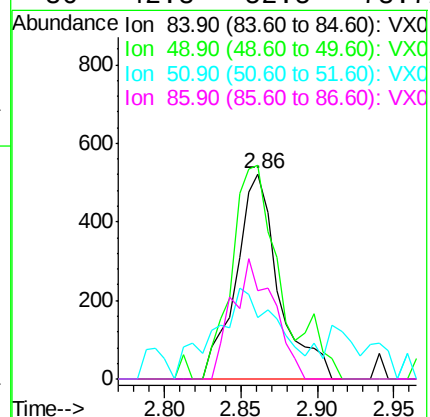
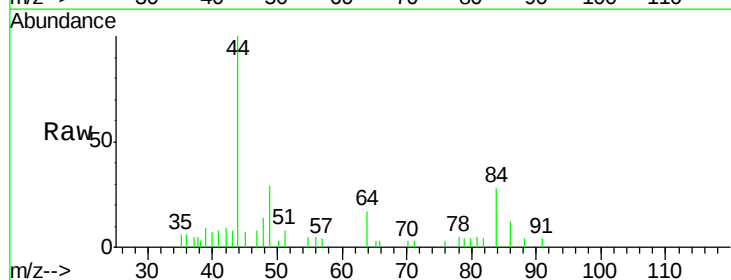
Ion Ratio Lower Upper

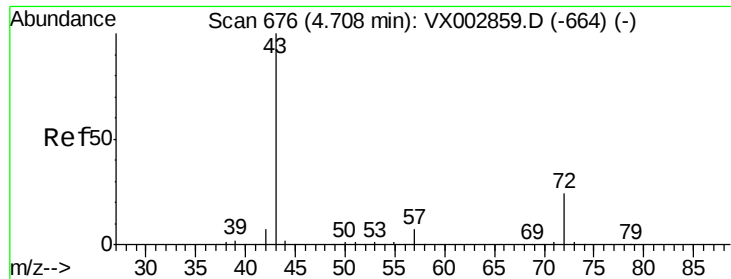
84 100

49 104.0 107.8 161.6#

51 12.6 32.8 49.2#

86 42.8 52.5 78.7#





#25

2-Butanone

Concen: 0.21 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX003234.D

Acq: 07 Jul 2018 01:07

Instrument :

MSVOA_X

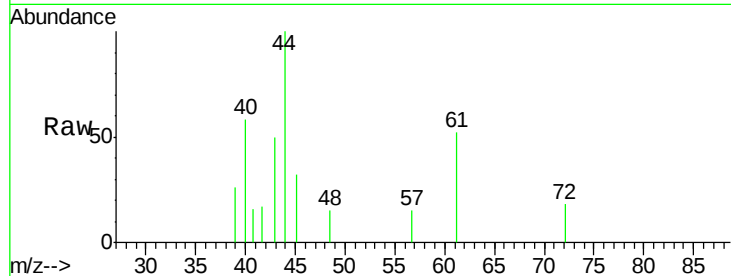
ClientSampled :

Tot Ion: 43 Resp: 470

Ion Ratio Lower Upper

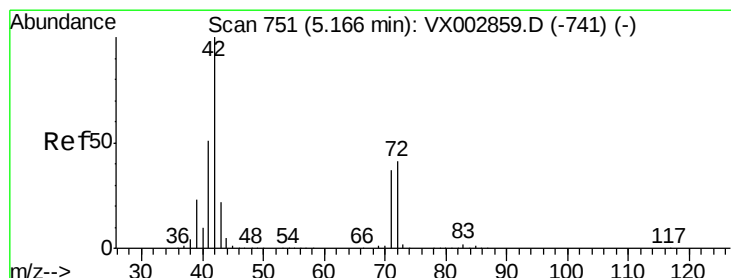
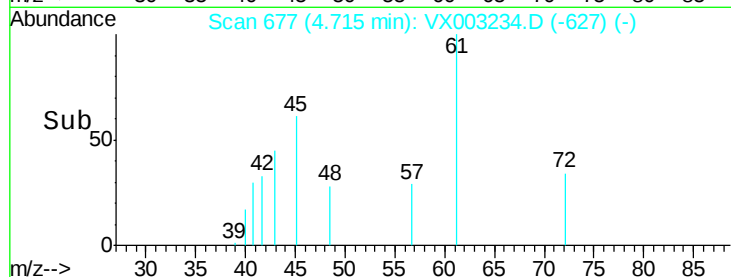
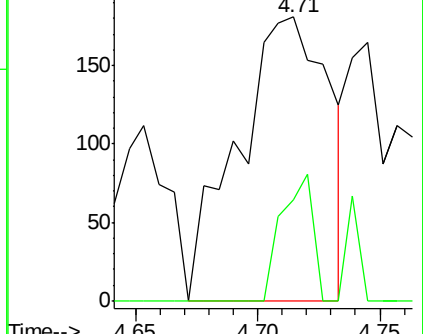
43 100

72 35.4 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.24 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX003234.D

Acq: 07 Jul 2018 01:07

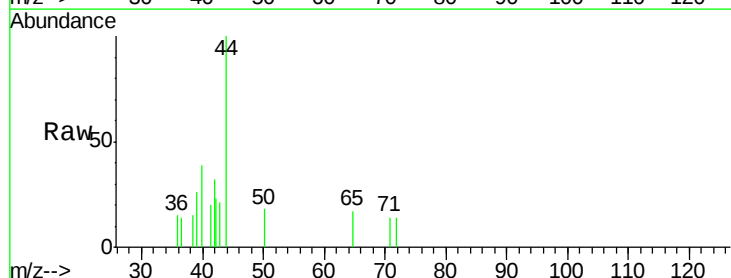
Tgt Ion: 42 Resp: 338

Ion Ratio Lower Upper

42 100

72 19.8 32.0 48.0#

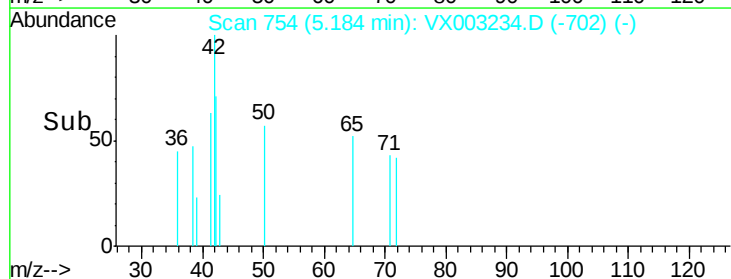
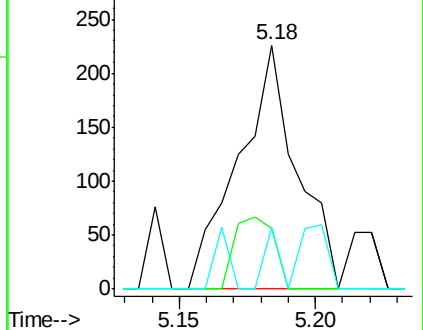
71 6.2 30.1 45.1#

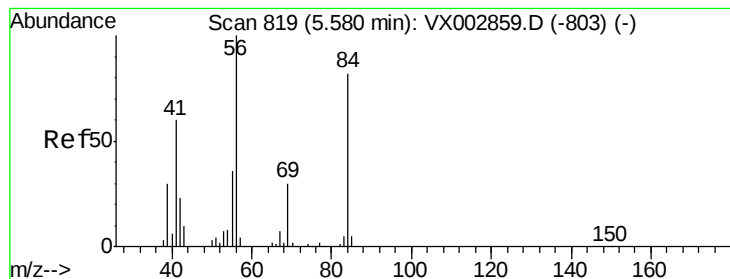


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.05 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.08 min

Lab File: VX003234.D

Acq: 07 Jul 2018 01:07

Instrument :

MSVOA_X

ClientSampled :

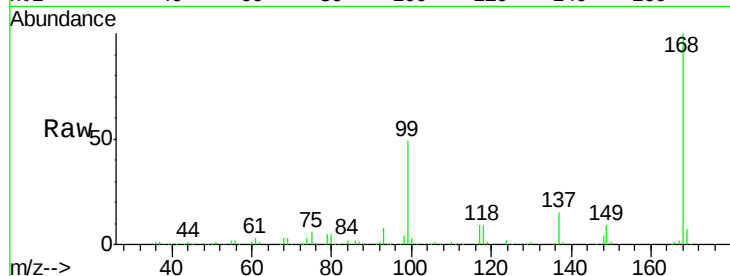
Tot Ion: 56 Resp: 4719

Ion Ratio Lower Upper

56 100

69 161.3 23.7 35.5#

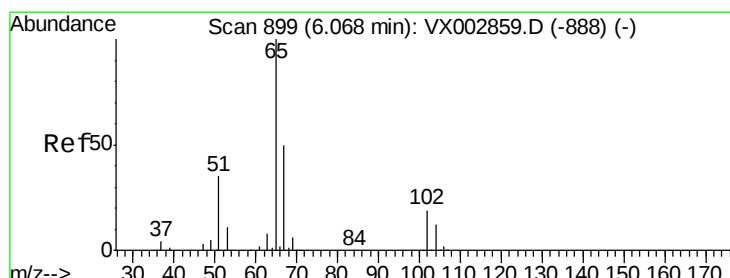
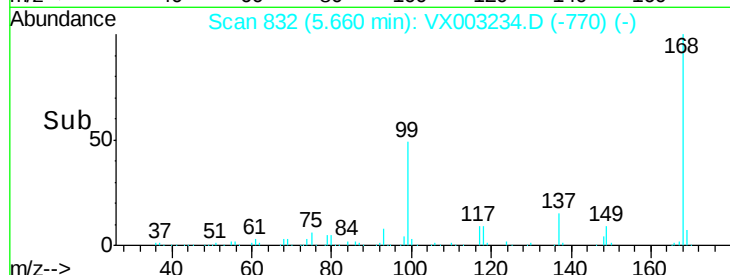
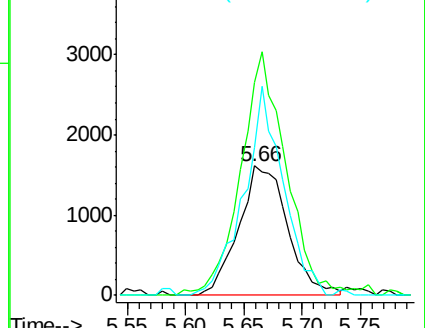
84 114.8 64.1 96.1#



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: 46.13 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.01 min

Lab File: VX003234.D

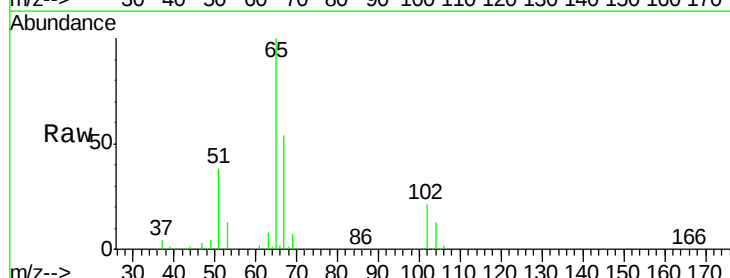
Acq: 07 Jul 2018 01:07

Tgt Ion: 65 Resp: 165445

Ion Ratio Lower Upper

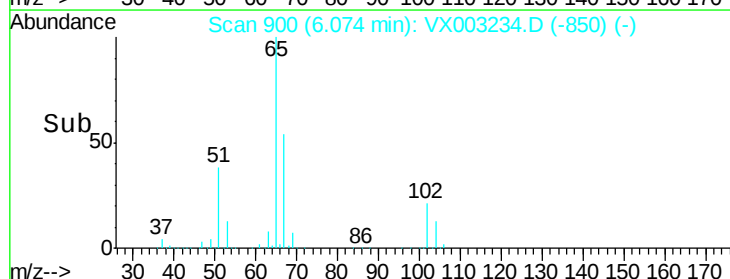
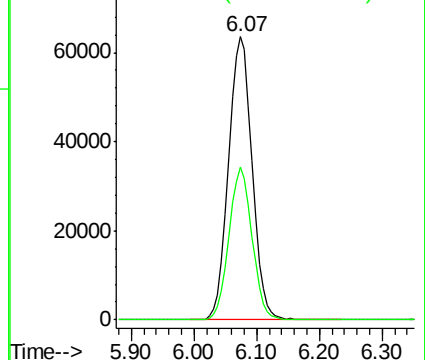
65 100

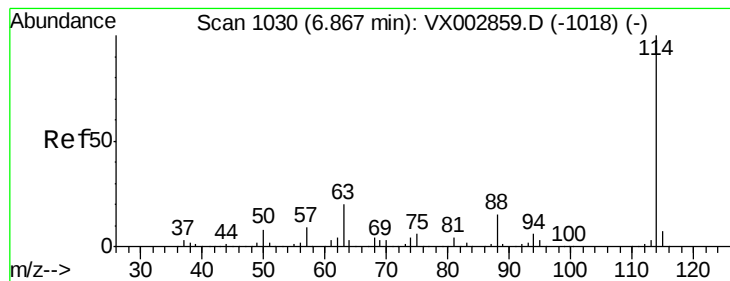
67 52.8 0.0 102.6



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: VX003234.D

Acq: 07 Jul 2018 01:07

Instrument :

MSVOA_X

ClientSampleId :

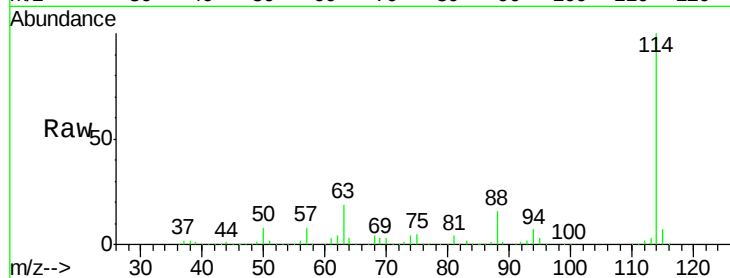
Tot Ion:114 Resp: 359620

Ion Ratio Lower Upper

114 100

63 19.2 0.0 41.4

88 15.9 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

6.87

200000

150000

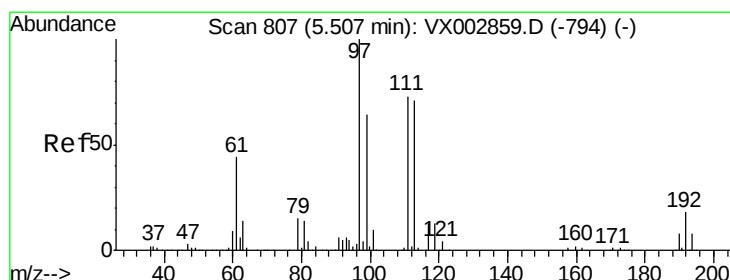
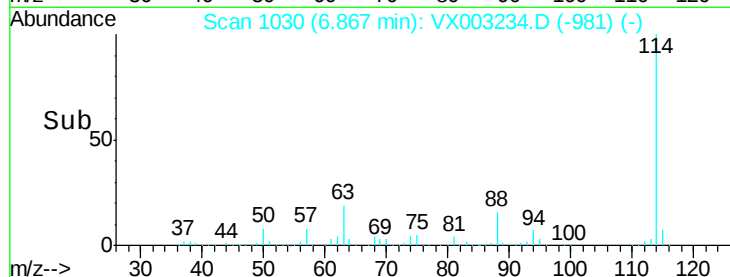
100000

50000

0

Time-->

6.70 6.80 6.90 7.00



#35

Dibromofluoromethane

Concen: 49.29 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003234.D

Acq: 07 Jul 2018 01:07

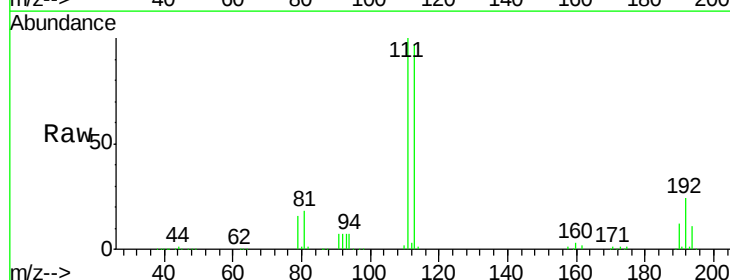
Tgt Ion:113 Resp: 140382

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.0

192 24.8 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

5.51

60000

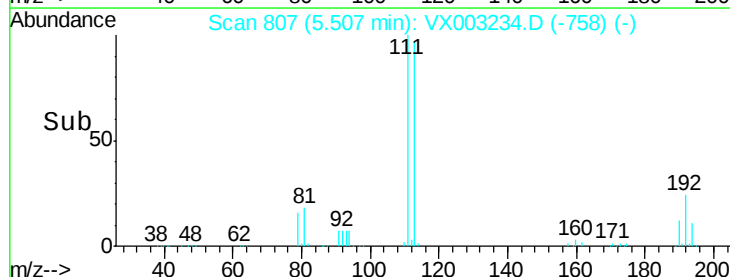
40000

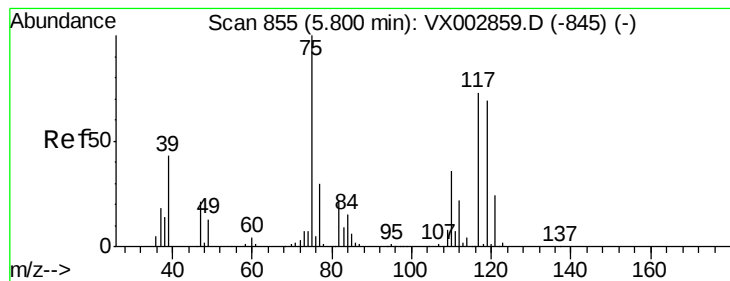
20000

0

Time-->

5.40 5.50 5.60





#36

1,1-Dichloropropene

Concen: 4.22 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003234.D

Acq: 07 Jul 2018 01:07

Instrument :
MSVOA_X
ClientSampleId :

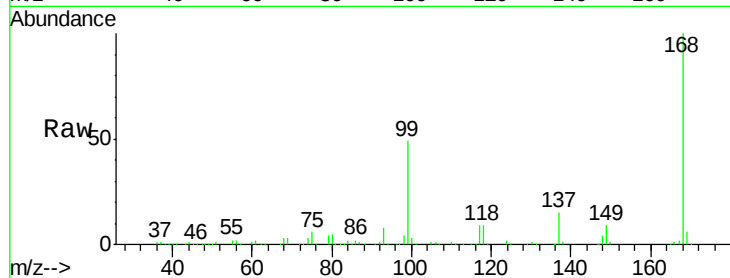
Tot Ion: 75 Resp: 16649

Ion Ratio Lower Upper

75 100

110 10.3 18.1 54.4#

77 0.1 24.3 36.5#

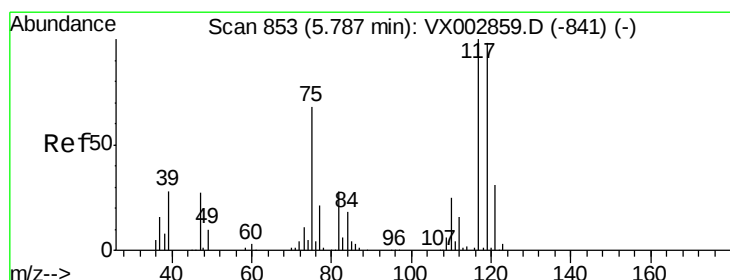
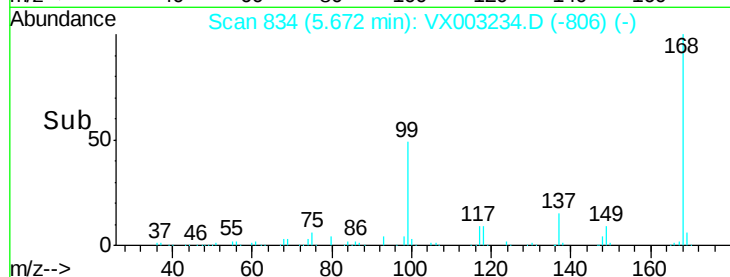


Abundance Ion 74.90 (74.60 to 75.60): VX003234.D (-806) (-)

Ion 109.90 (109.60 to 110.60): VX003234.D (-806) (-)

Ion 76.90 (76.60 to 77.60): VX003234.D (-806) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.26 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX003234.D

Acq: 07 Jul 2018 01:07

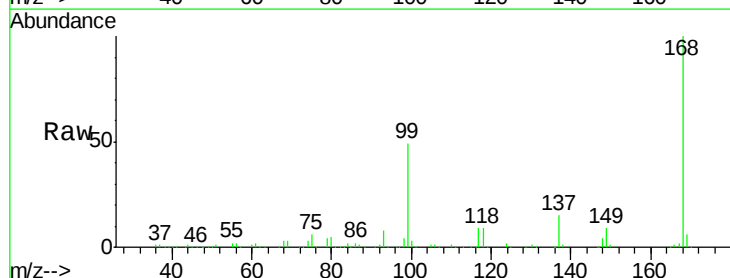
Tgt Ion: 117 Resp: 22771

Ion Ratio Lower Upper

117 100

119 4.9 77.4 116.0#

121 0.0 24.4 36.6#

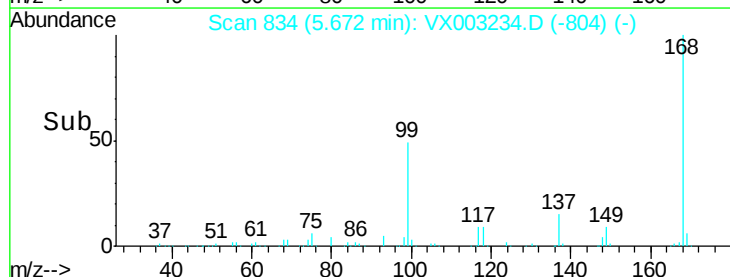


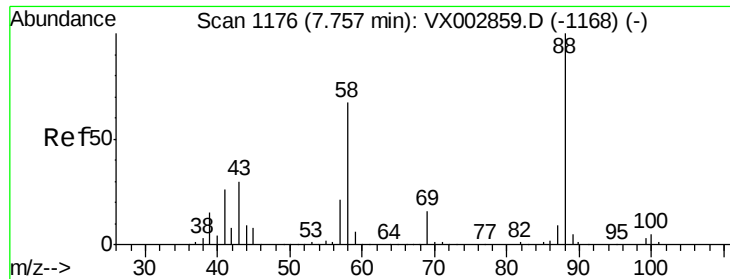
Abundance Ion 116.80 (116.50 to 117.50): VX003234.D (-804) (-)

Ion 118.80 (118.50 to 119.50): VX003234.D (-804) (-)

Ion 120.80 (120.50 to 121.50): VX003234.D (-804) (-)

Time-->

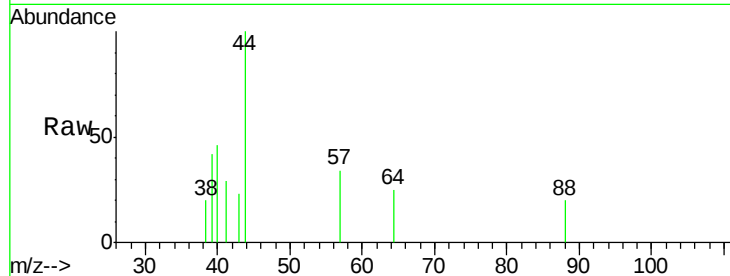




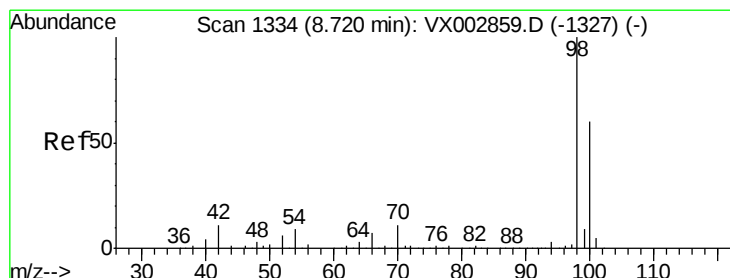
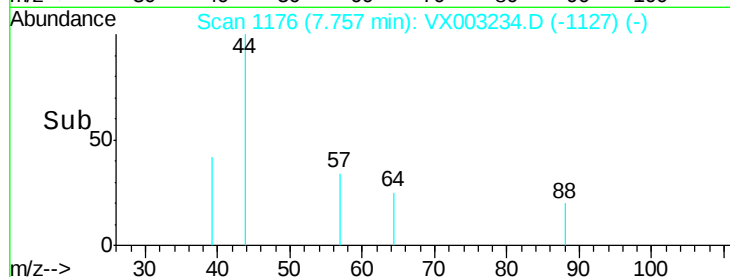
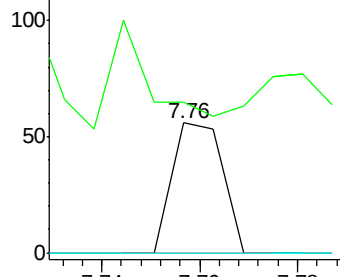
#49
 1,4-Dioxane
 Concen: 0.56 ug/l
 RT: 7.76 min Scan# 1176
 Delta R.T. 0.00 min
 Lab File: VX003234.D
 Acq: 07 Jul 2018 01:07

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 88 Resp: 40
 Ion Ratio Lower Upper
 88 100
 43 77.5 29.8 44.6#
 58 0.0 57.1 85.7#

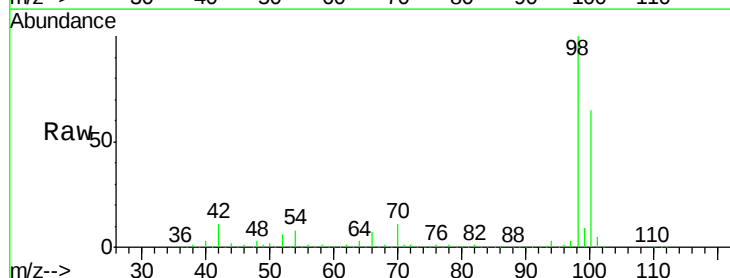


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

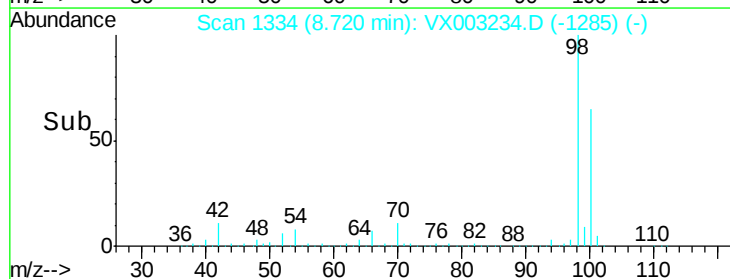
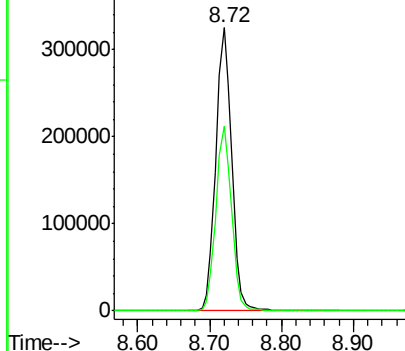


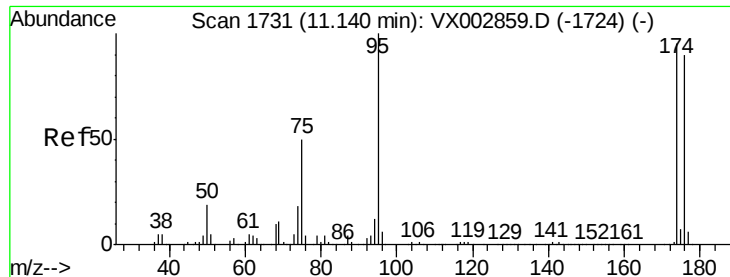
#50
 Toluene-d8
 Concen: 47.85 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VX003234.D
 Acq: 07 Jul 2018 01:07

Tgt Ion: 98 Resp: 497650
 Ion Ratio Lower Upper
 98 100
 100 64.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): VX0

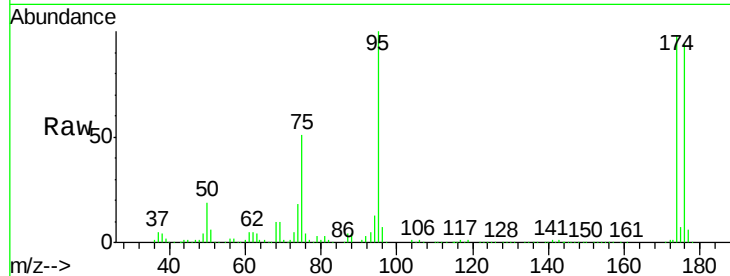




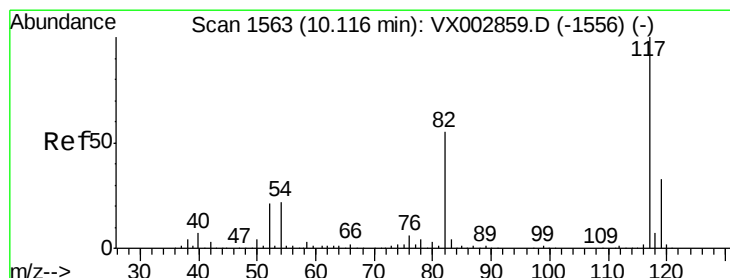
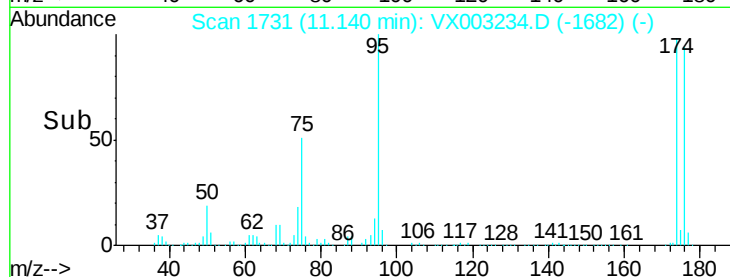
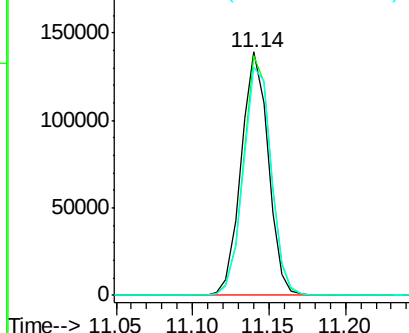
#62
4-Bromofluorobenzene
Concen: 42.59 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003234.D
Acq: 07 Jul 2018 01:07

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 170817
Ion Ratio Lower Upper
95 100
174 99.9 0.0 187.4
176 97.2 0.0 181.0

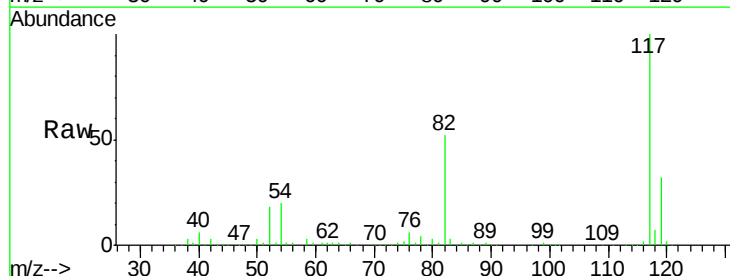


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

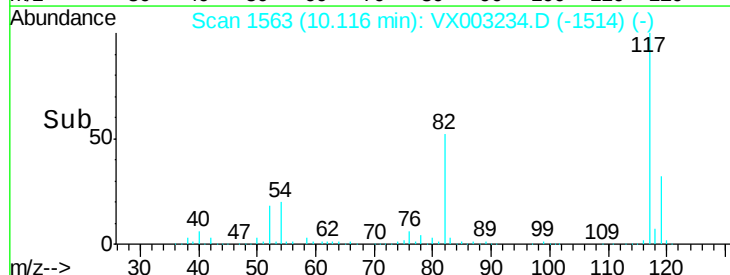
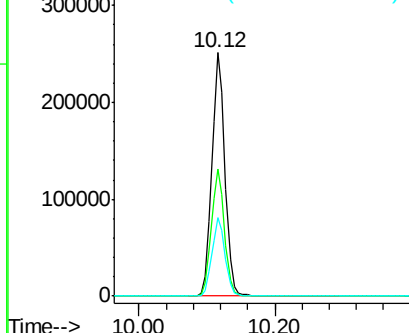


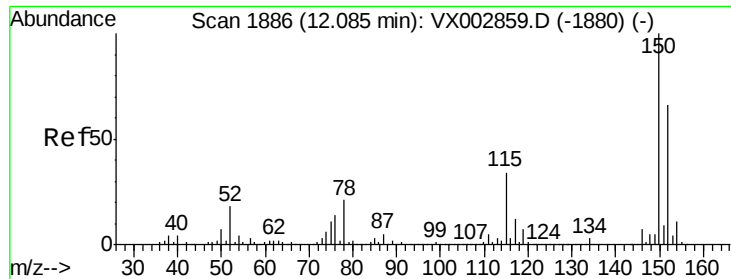
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003234.D
Acq: 07 Jul 2018 01:07

Tgt Ion: 117 Resp: 333563
Ion Ratio Lower Upper
117 100
82 52.3 45.0 67.4
119 32.4 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: VX003234.D

Acq: 07 Jul 2018 01:07

Instrument :

MSVOA_X

ClientSampled :

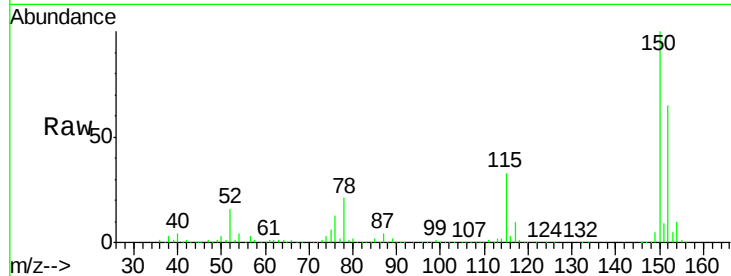
Tot Ion:152 Resp: 186724

Ion Ratio Lower Upper

152 100

115 53.0 40.1 120.2

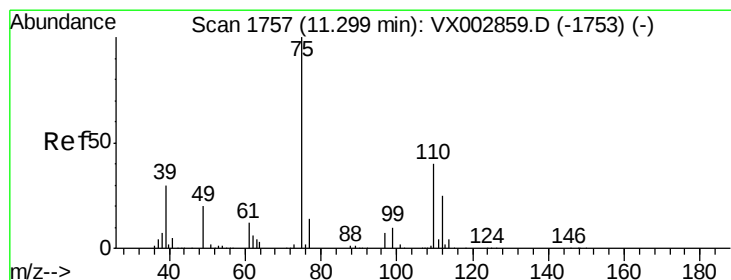
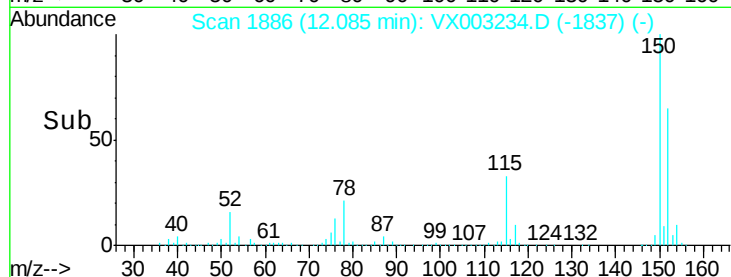
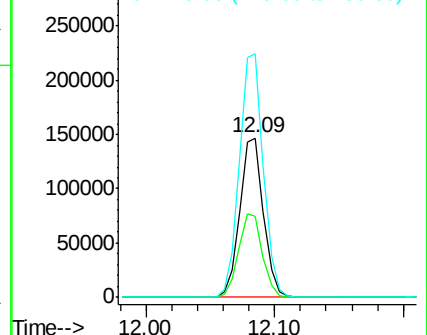
150 155.7 0.0 347.2



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: 25.60 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003234.D

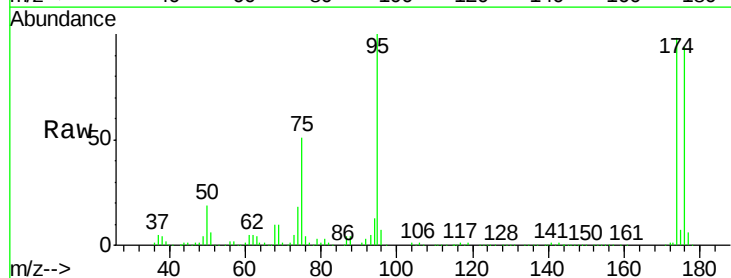
Acq: 07 Jul 2018 01:07

Tgt Ion: 75 Resp: 86581

Ion Ratio Lower Upper

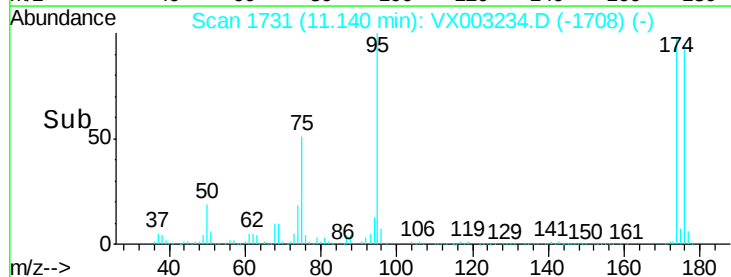
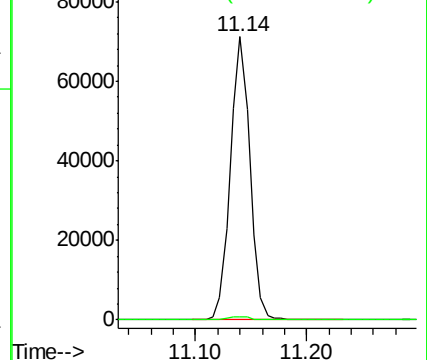
75 100

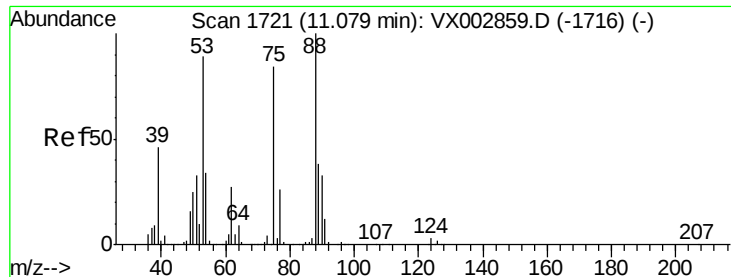
77 1.4 22.8 68.3#



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: 72.64 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003234.D

Acq: 07 Jul 2018 01:07

Instrument :

MSVOA_X

ClientSampled :

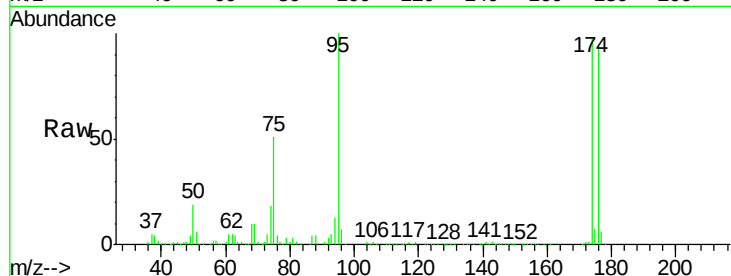
Tot Ion: 75 Resp: 86581

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

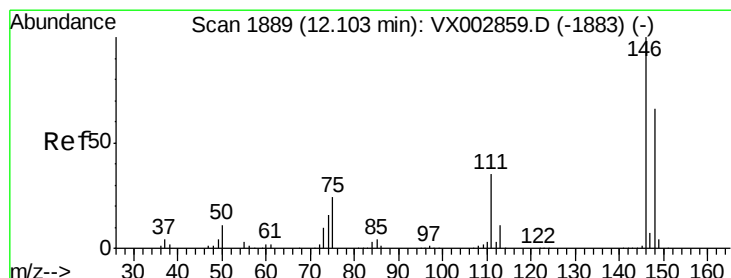
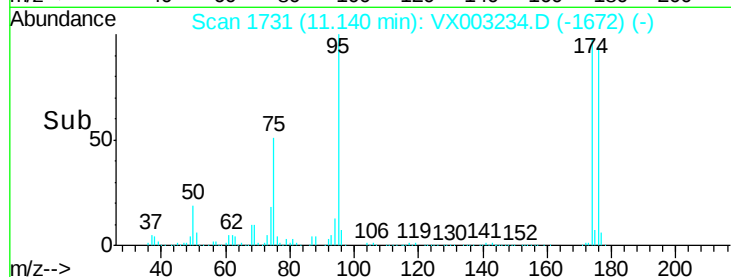
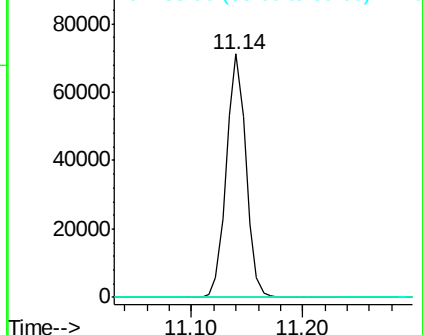
89 0.0 38.2 57.2#



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



#88

1,4-Dichlorobenzene

Concen: 0.22 ug/l

RT: 12.10 min Scan# 1888

Delta R.T. -0.01 min

Lab File: VX003234.D

Acq: 07 Jul 2018 01:07

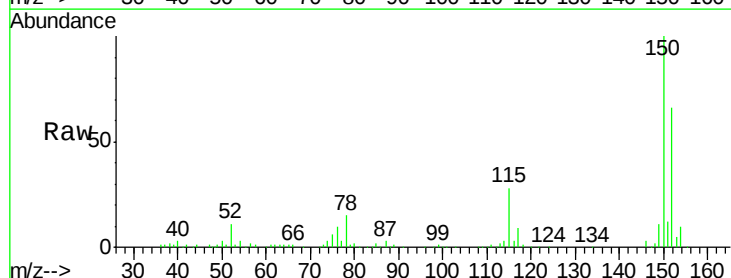
Tgt Ion: 146 Resp: 1458

Ion Ratio Lower Upper

146 100

111 172.8 18.7 56.1#

148 115.7 32.4 97.0#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

