

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071018\
 Data File : VX003308.D
 Acq On : 11 Jul 2018 02:50
 Operator : JC/MD
 Sample : J3914-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B3

Quant Time: Jul 11 04:58:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	259216	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	358627	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	340209	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	191061	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	164451	40.31	ug/l	0.00
Spiked Amount 50.000			Recovery =	80.62%		
35) Dibromofluoromethane	5.51	113	140150	36.38	ug/l	0.00
Spiked Amount 50.000			Recovery =	72.76%		
50) Toluene-d8	8.72	98	508800	37.18	ug/l	0.00
Spiked Amount 50.000			Recovery =	74.36%		
62) 4-Bromofluorobenzene	11.14	95	174062	34.42	ug/l	0.00
Spiked Amount 50.000			Recovery =	68.84%		

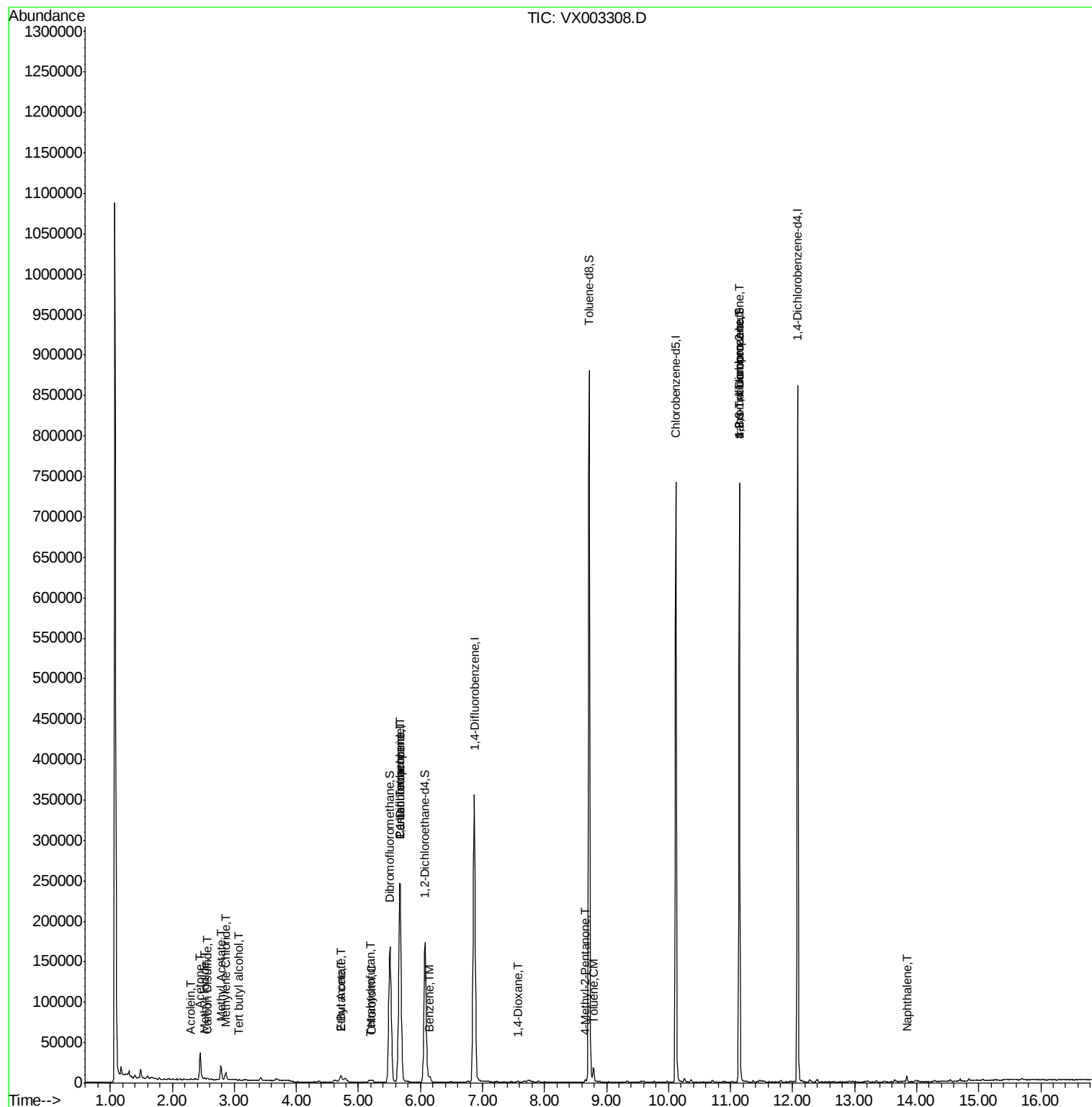
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1353	Below Cal	#	74
10) Methyl Iodide	2.52	142	2208	6.20	ug/l #	96
11) Tert butyl alcohol	3.07	59	569	0.77	ug/l #	67
13) Acrolein	2.30	56	575	0.96	ug/l #	70
16) Acetone	2.45	43	35694	24.65	ug/l	99
17) Carbon Disulfide	2.57	76	1939	0.24	ug/l	99
18) Methyl Acetate	2.78	43	19579	4.79	ug/l	96
20) Methylene Chloride	2.86	84	4525	0.83	ug/l	97
25) 2-Butanone	4.71	43	15234	5.94	ug/l	94
29) Tetrahydrofuran	5.18	42	2251	1.35	ug/l #	85
30) Chloroform	5.22	83	2422	0.39	ug/l	89
36) 1,1-Dichloropropene	5.67	75	16825	3.31	ug/l #	51
37) Ethyl Acetate	4.71	43	15234	2.74	ug/l #	71
38) Carbon Tetrachloride	5.67	117	22485	4.05	ug/l #	15
40) Benzene	6.14	78	6851	0.46	ug/l	93
49) 1,4-Dioxane	7.58	88	20	0.21	ug/l #	1
51) 4-Methyl-2-Pentanone	8.65	43	1908	0.35	ug/l	99
52) Toluene	8.79	92	5291	0.56	ug/l	97
76) 1,2,3-Trichloropropane	11.14	75	86466	20.94	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	86466	68.44	ug/l #	7
95) Naphthalene	13.84	128	4499	0.29	ug/l #	94

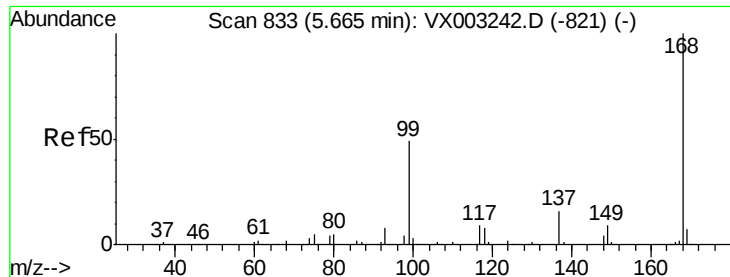
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jul 09 15:24:16 2018
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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: VX003308.D

Acq: 11 Jul 2018 02:50

Instrument :

MSVOA_X

ClientSampleId :

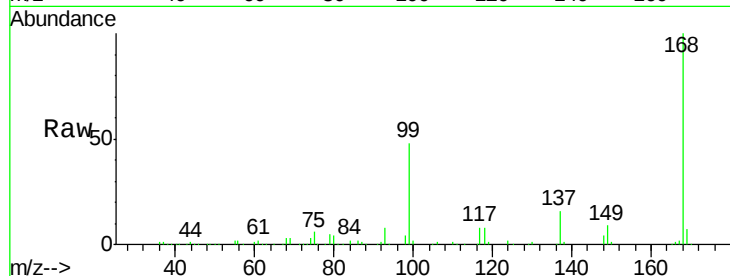
B3

Tot Ion:168 Resp: 259216

Ion Ratio Lower Upper

168 100

99 48.5 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

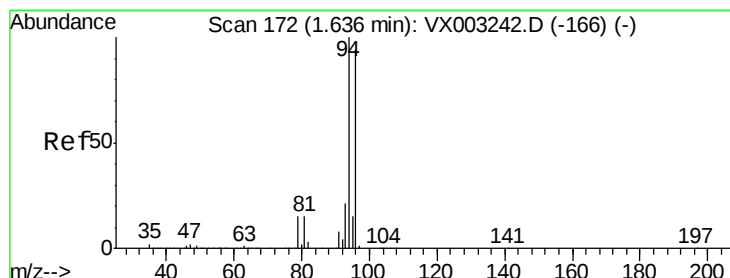
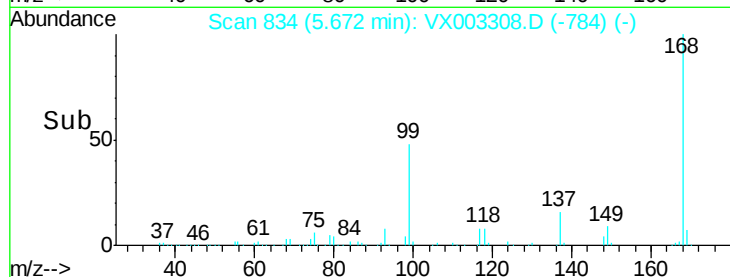
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003308.D

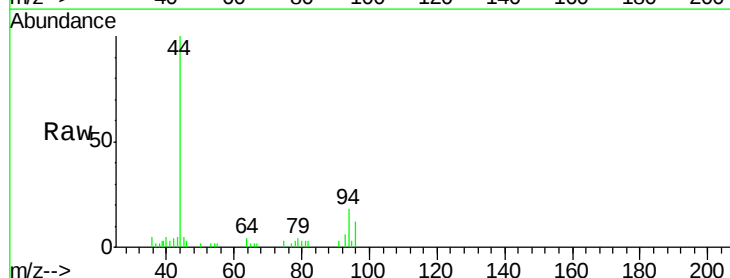
Acq: 11 Jul 2018 02:50

Tgt Ion: 94 Resp: 1353

Ion Ratio Lower Upper

94 100

96 68.3 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

600

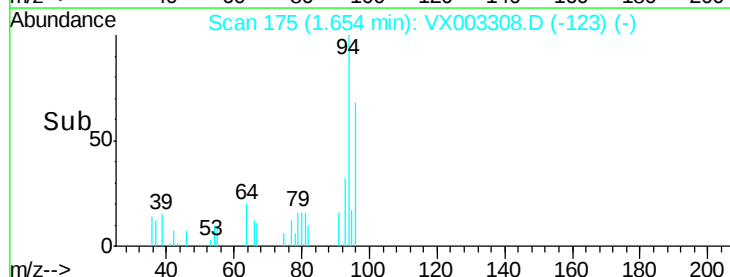
400

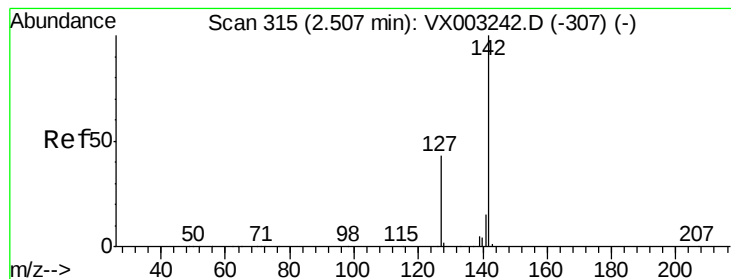
200

0

Time-->

1.60 1.65 1.70 1.75





#10

Methvl Iodide

Concen: 6.20 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003308.D

Acq: 11 Jul 2018 02:50

Instrument :

MSVOA_X

ClientSampled :

B3

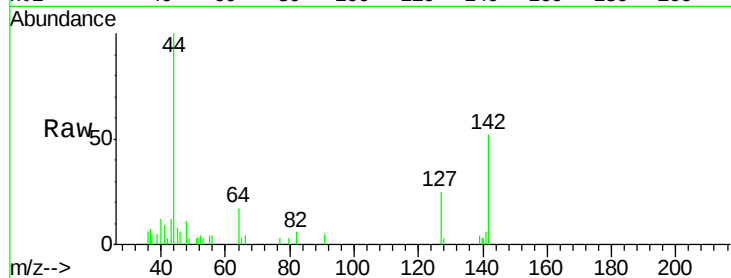
Tot Ion:142 Resp: 2208

Ion Ratio Lower Upper

142 100

127 47.6 36.6 55.0

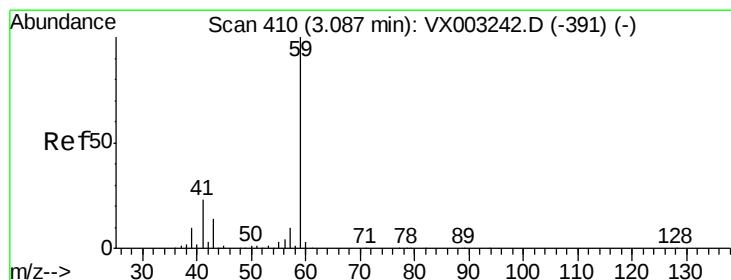
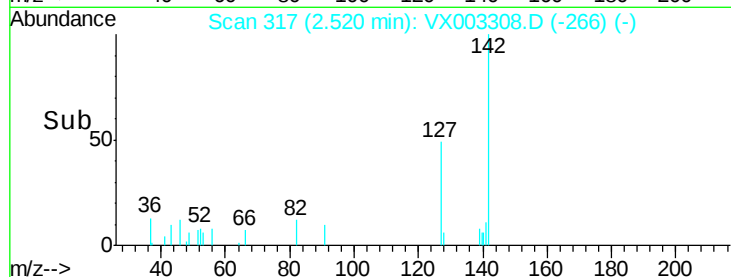
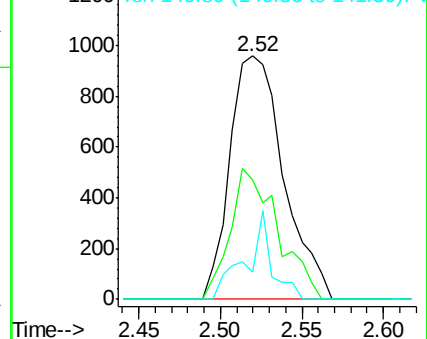
141 17.4 11.3 16.9#



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: 0.77 ug/l

RT: 3.07 min Scan# 408

Delta R.T. -0.02 min

Lab File: VX003308.D

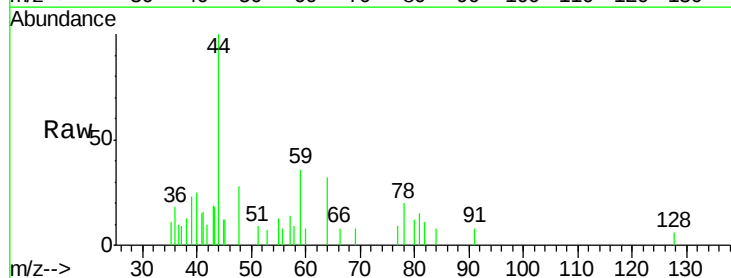
Acq: 11 Jul 2018 02:50

Tgt Ion: 59 Resp: 569

Ion Ratio Lower Upper

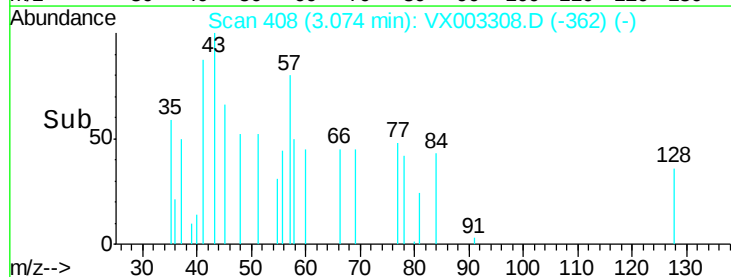
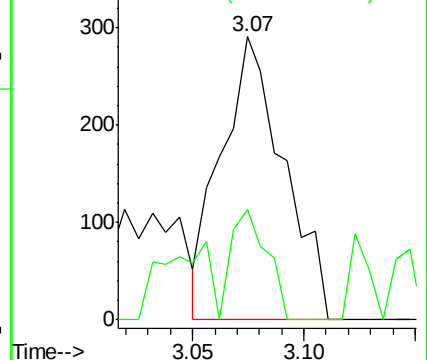
59 100

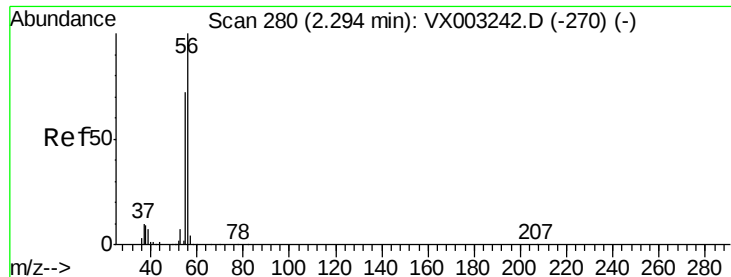
57 22.3 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.96 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003308.D

Acq: 11 Jul 2018 02:50

Instrument :

MSVOA_X

ClientSampleId :

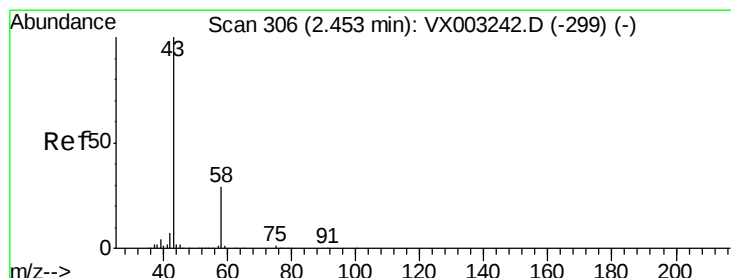
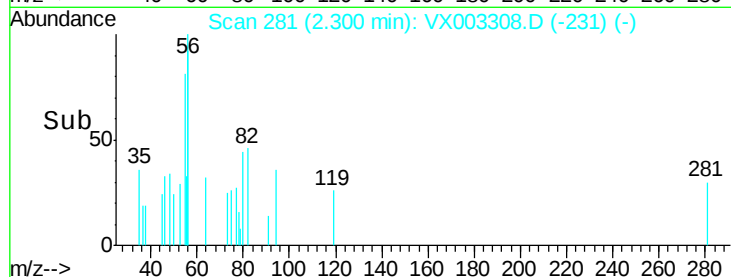
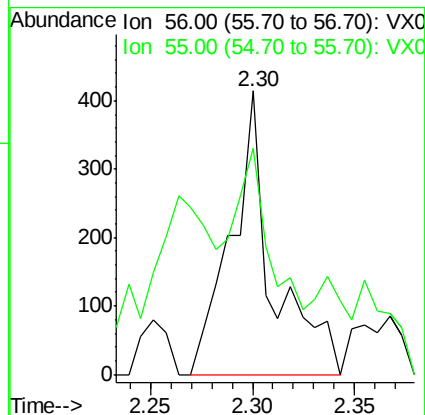
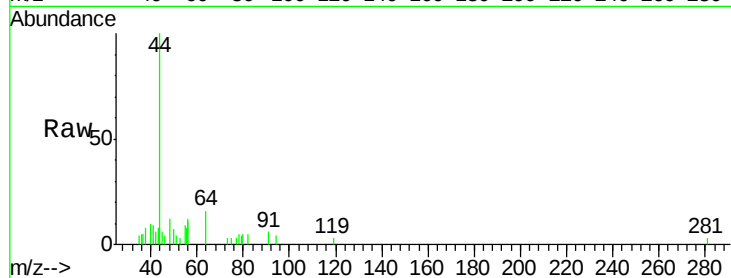
B3

Tot Ion: 56 Resp: 575

Ion Ratio Lower Upper

56 100

55 46.3 57.0 85.4#



#16

Acetone

Concen: 24.65 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003308.D

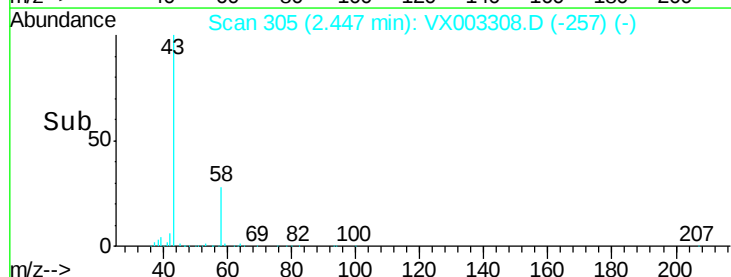
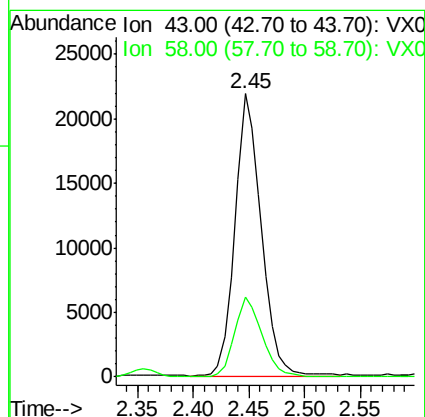
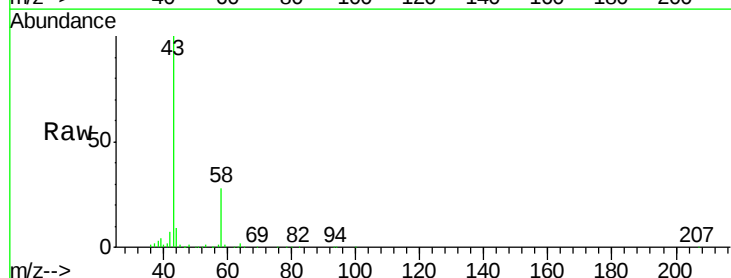
Acq: 11 Jul 2018 02:50

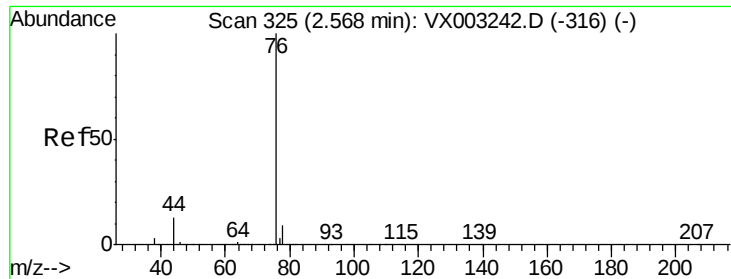
Tgt Ion: 43 Resp: 35694

Ion Ratio Lower Upper

43 100

58 28.3 22.1 33.1

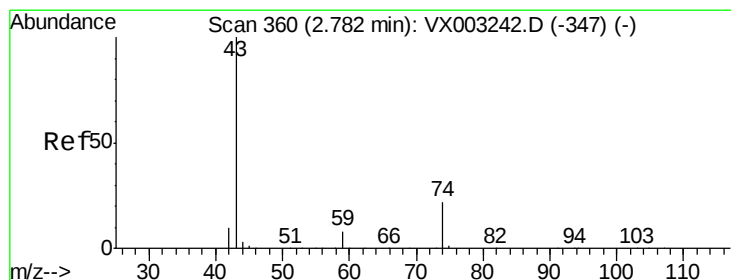
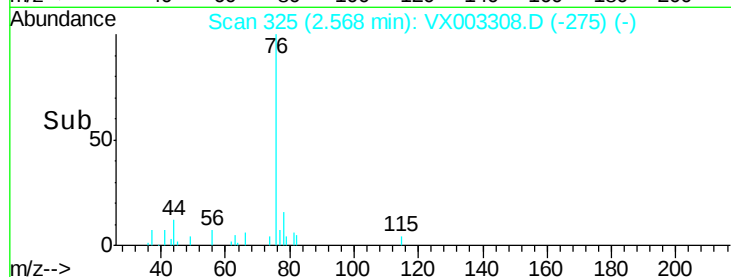
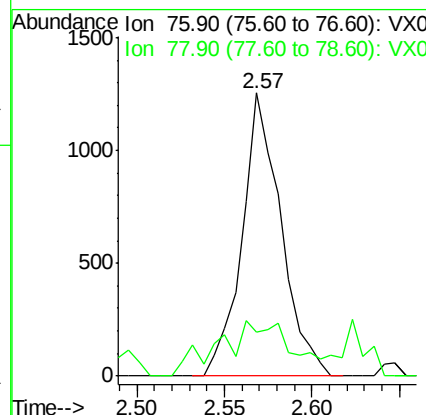
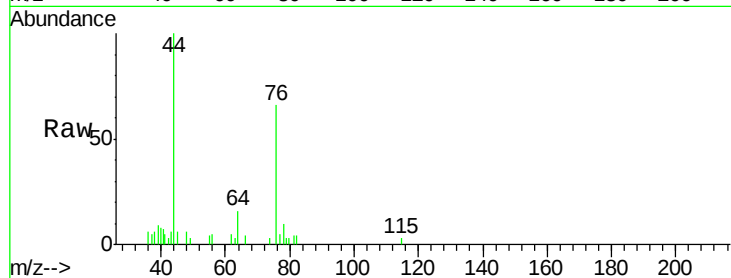




#17
Carbon Disulfide
Concen: 0.24 ug/l
RT: 2.57 min Scan# 325
Delta R.T. 0.01 min
Lab File: VX003308.D
Acq: 11 Jul 2018 02:50

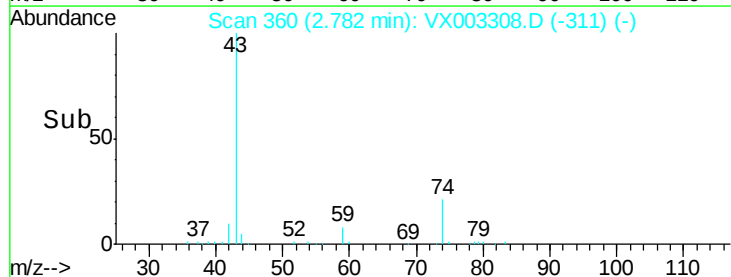
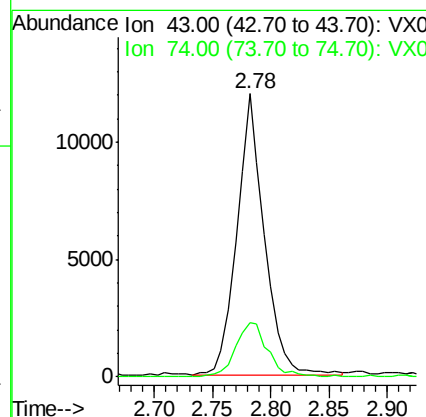
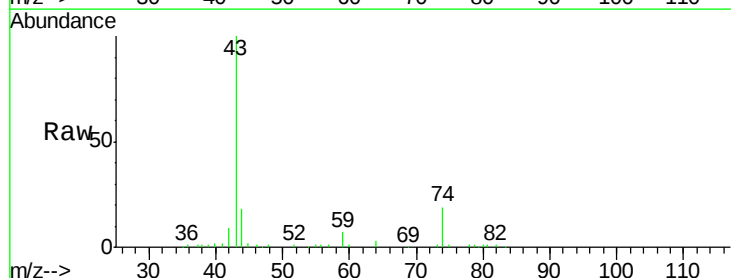
Instrument :
MSVOA_X
ClientSampled :
B3

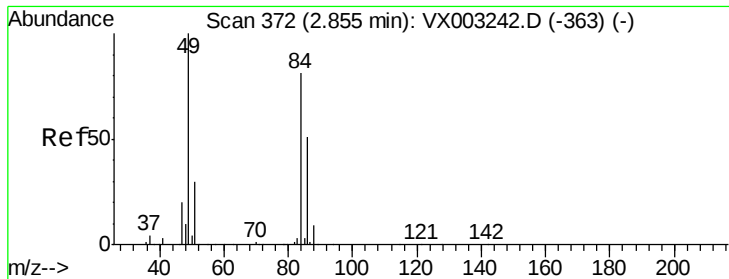
Tot Ion: 76 Resp: 1939
Ion Ratio Lower Upper
76 100
78 8.9 6.9 10.3



#18
Methyl Acetate
Concen: 4.79 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX003308.D
Acq: 11 Jul 2018 02:50

Tgt Ion: 43 Resp: 19579
Ion Ratio Lower Upper
43 100
74 22.6 16.7 25.1

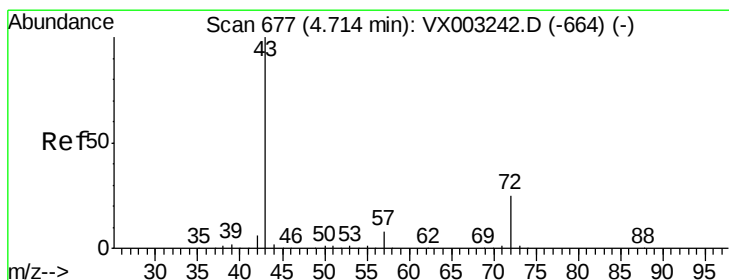
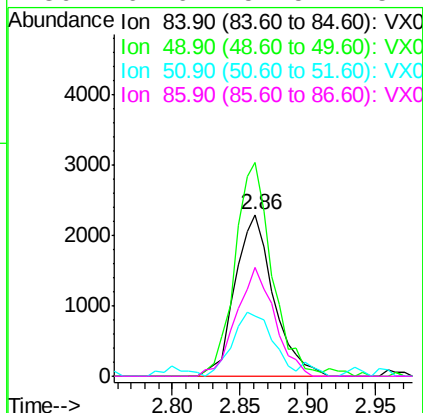
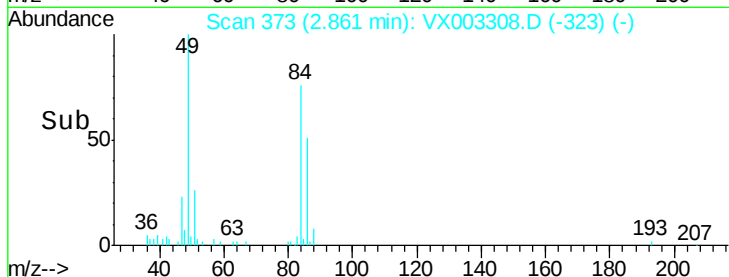
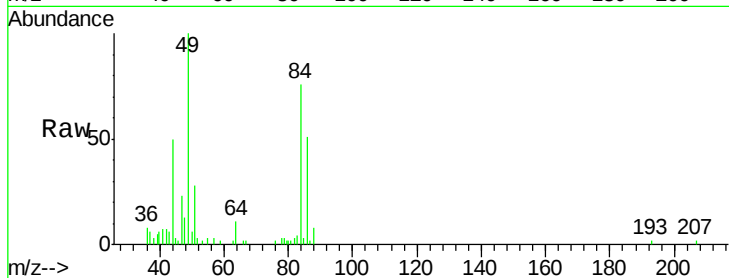




#20
Methvlene Chloride
Concen: 0.83 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003308.D
Acq: 11 Jul 2018 02:50

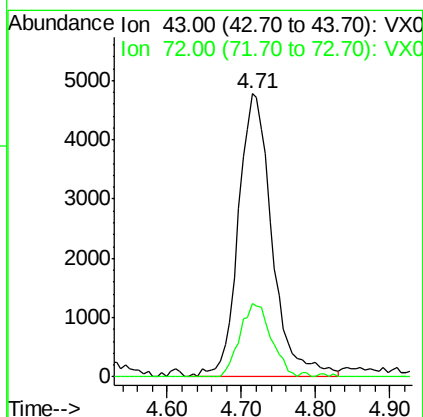
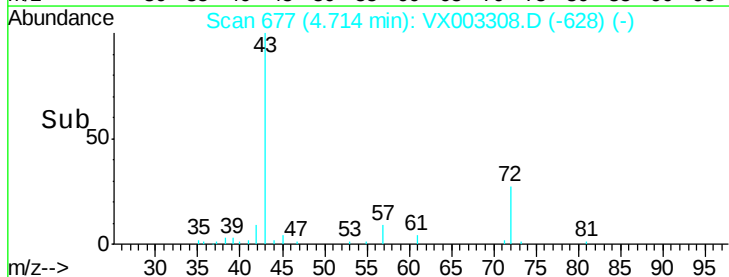
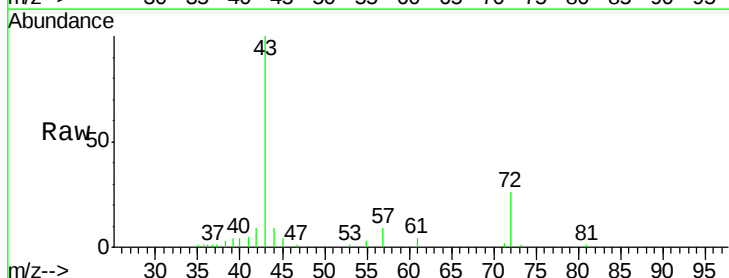
Instrument :
MSVOA_X
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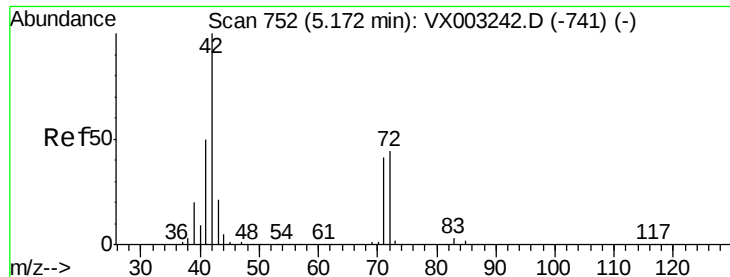
Tot Ion: 84 Resp: 4525
Ion Ratio Lower Upper
84 100
49 132.1 107.8 161.6
51 37.4 32.8 49.2
86 67.6 52.5 78.7



#25
2-Butanone
Concen: 5.94 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.00 min
Lab File: VX003308.D
Acq: 11 Jul 2018 02:50

Tgt Ion: 43 Resp: 15234
Ion Ratio Lower Upper
43 100
72 26.1 18.5 27.7





#29

Tetrahydrofuran

Concen: 1.35 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX003308.D

Acq: 11 Jul 2018 02:50

Instrument :

MSVOA_X

ClientSampled :

B3

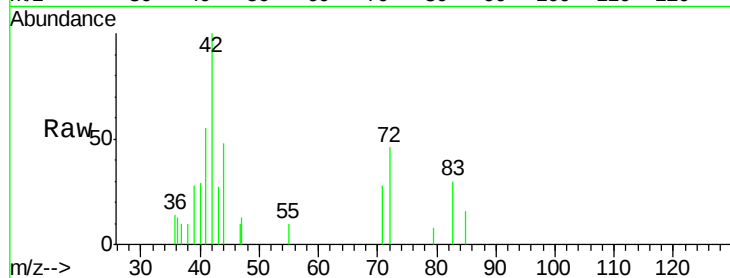
Tot Ion: 42 Resp: 2251

Ion Ratio Lower Upper

42 100

72 37.4 32.0 48.0

71 21.3 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

Time-->

5.18

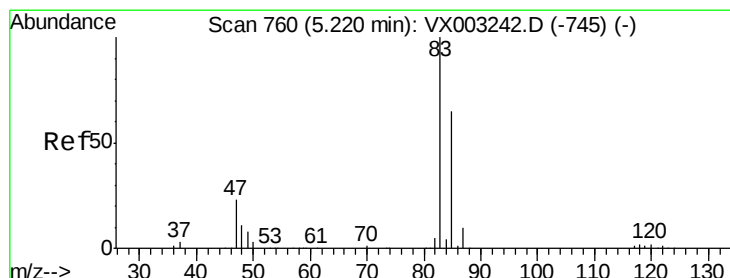
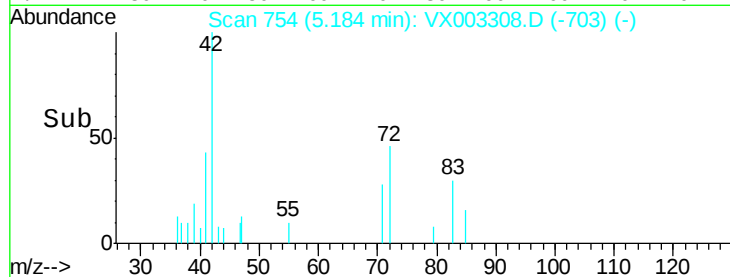
600

400

200

0

5.10 5.20 5.30



#30

Chloroform

Concen: 0.39 ug/l

RT: 5.22 min Scan# 760

Delta R.T. -0.00 min

Lab File: VX003308.D

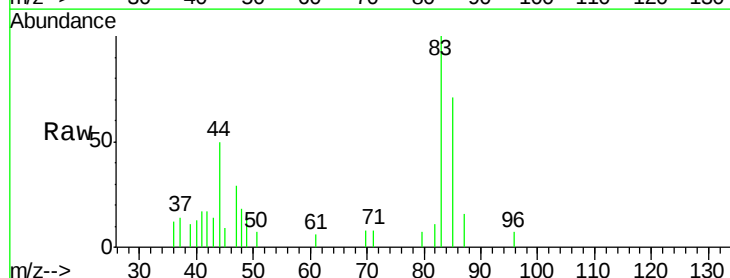
Acq: 11 Jul 2018 02:50

Tgt Ion: 83 Resp: 2422

Ion Ratio Lower Upper

83 100

85 71.4 50.4 75.6



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Time-->

5.22

800

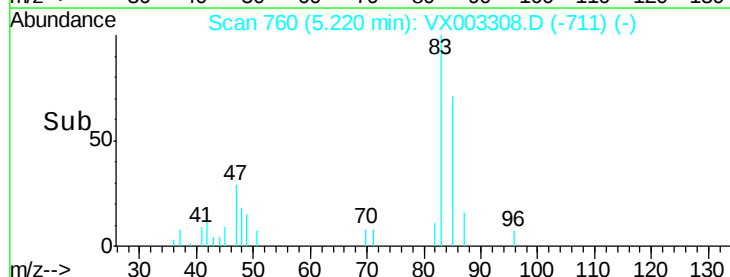
600

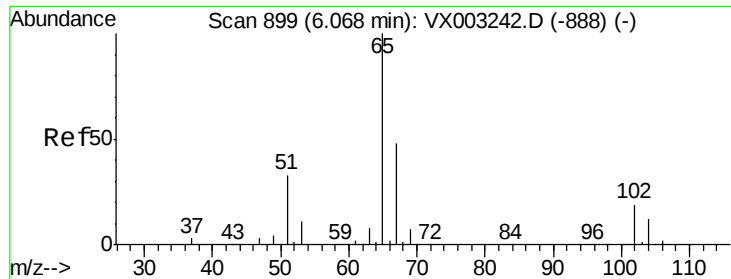
400

200

0

5.15 5.20 5.25 5.30

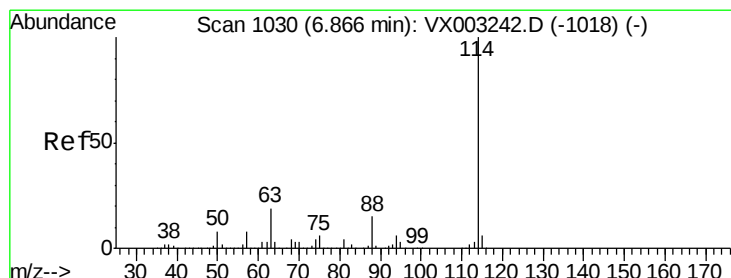
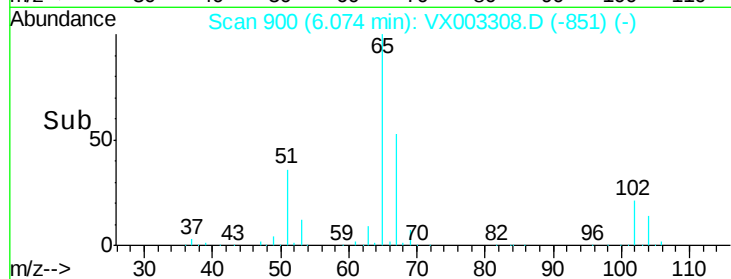
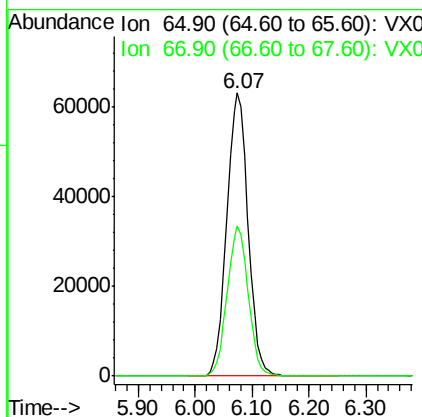
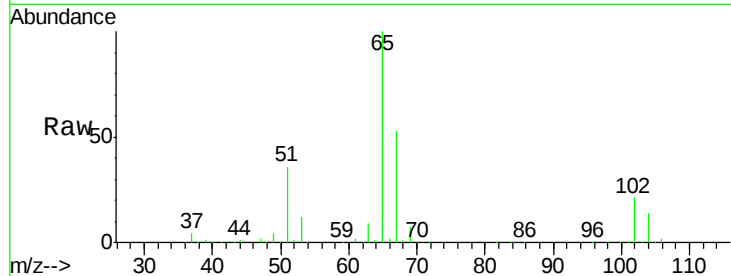




#33
 1,2-Dichloroethane-d4
 Concen: 40.31 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX003308.D
 Acq: 11 Jul 2018 02:50

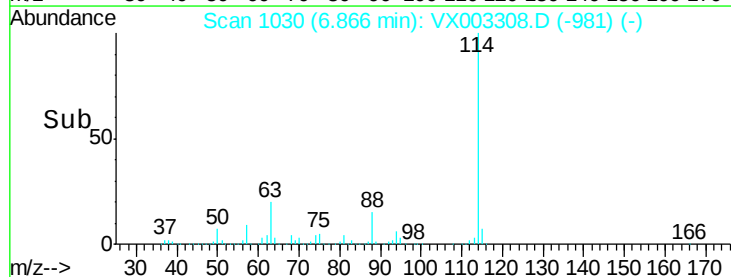
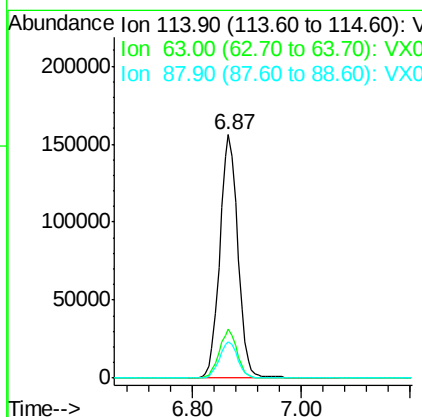
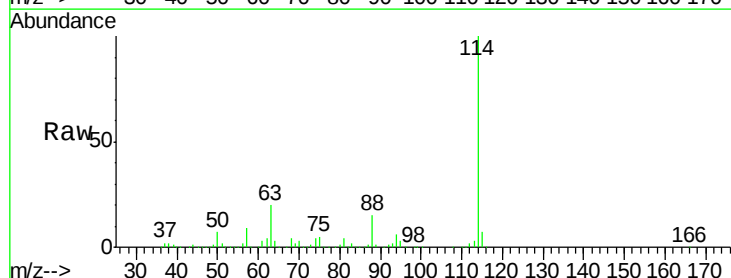
Instrument :
 MSVOA_X
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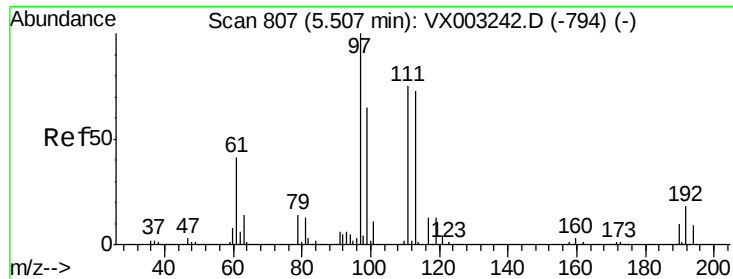
Tot Ion: 65 Resp: 164451
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003308.D
 Acq: 11 Jul 2018 02:50

Tgt Ion: 114 Resp: 358627
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 41.4
 88 14.7 0.0 30.0





#35

Dibromofluoromethane

Concen: 36.38 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003308.D

Acq: 11 Jul 2018 02:50

Instrument :

MSVOA_X

ClientSampleId :

B3

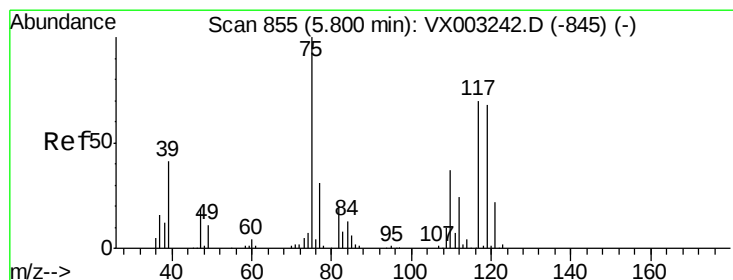
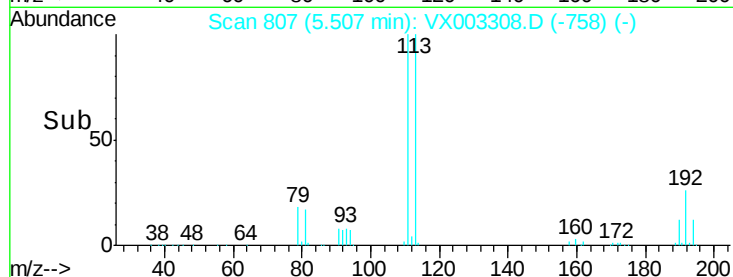
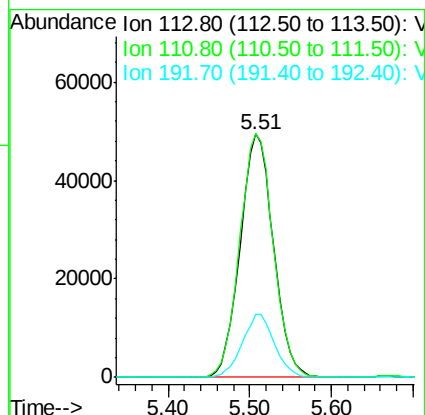
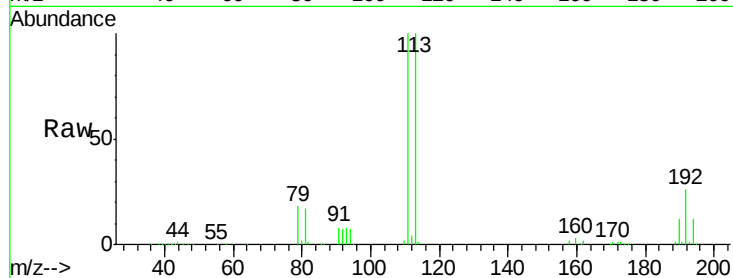
Tot Ion:113 Resp: 140150

Ion Ratio Lower Upper

113 100

111 101.1 81.4 122.0

192 25.1 19.1 28.7



#36

1,1-Dichloropropene

Concen: 3.31 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003308.D

Acq: 11 Jul 2018 02:50

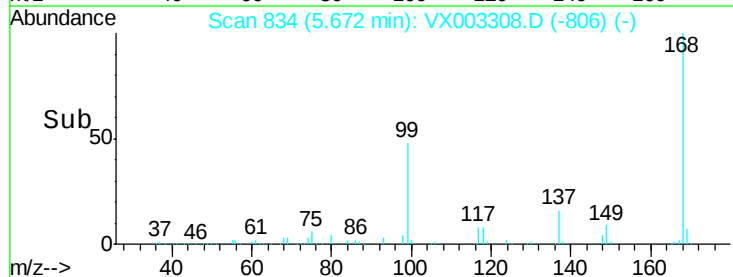
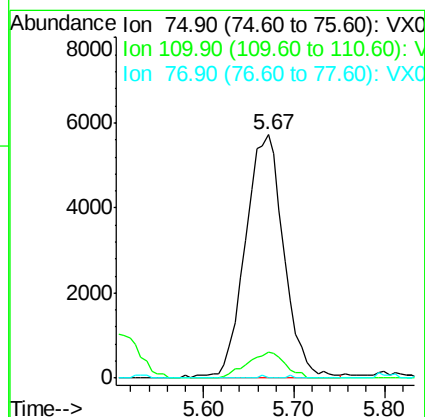
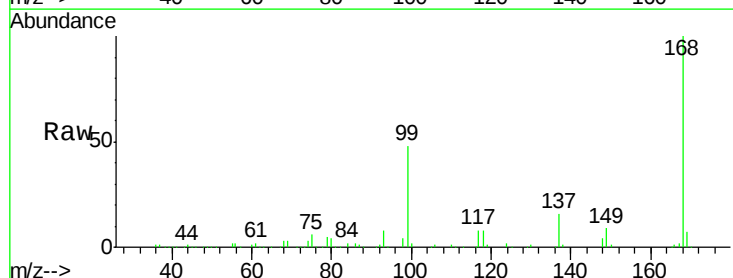
Tgt Ion: 75 Resp: 16825

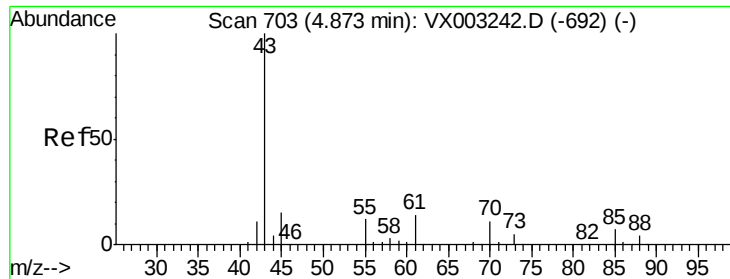
Ion Ratio Lower Upper

75 100

110 10.5 18.1 54.4#

77 0.2 24.3 36.5#





#37

Ethyl Acetate

Concen: 2.74 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.16 min

Lab File: VX003308.D

Acq: 11 Jul 2018 02:50

Instrument :

MSVOA_X

ClientSampled :

B3

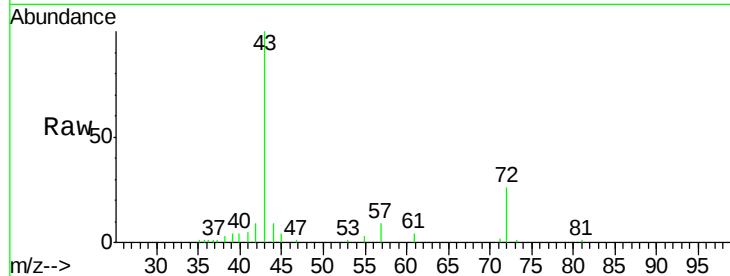
Tot Ion: 43 Resp: 15234

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

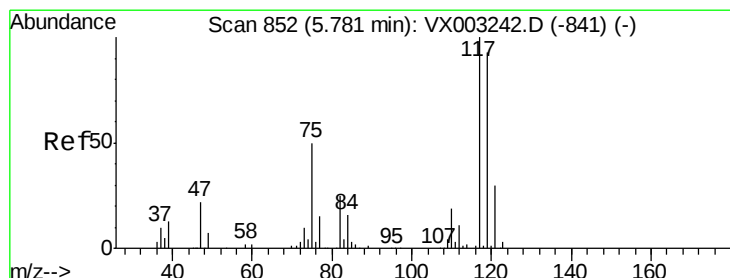
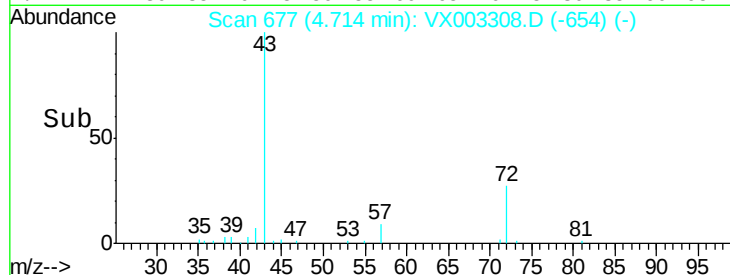
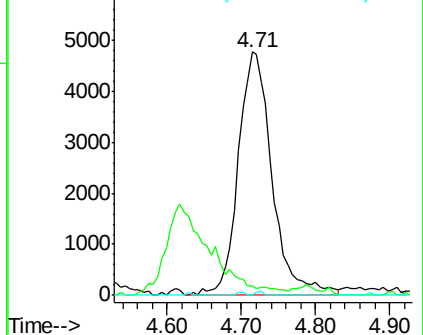
70 0.3 7.6 11.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 4.05 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003308.D

Acq: 11 Jul 2018 02:50

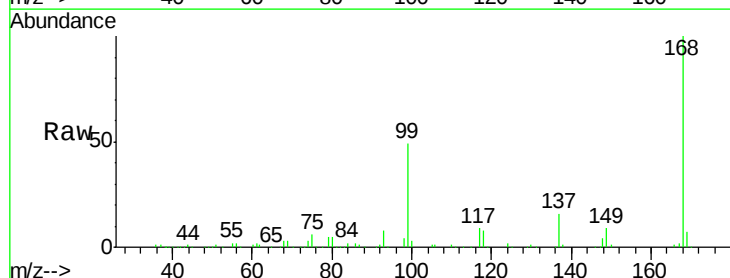
Tgt Ion: 117 Resp: 22485

Ion Ratio Lower Upper

117 100

119 4.8 77.4 116.0#

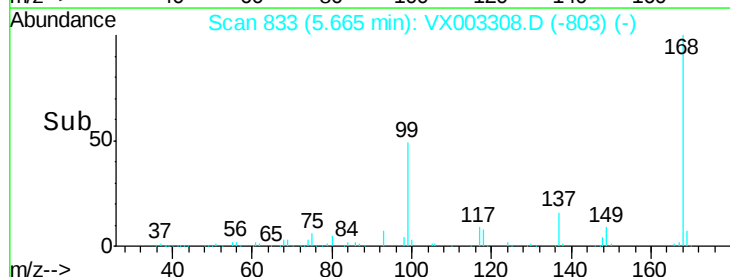
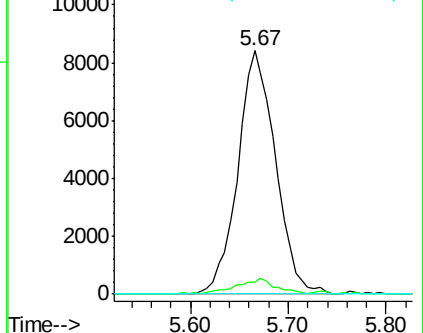
121 0.0 24.4 36.6#

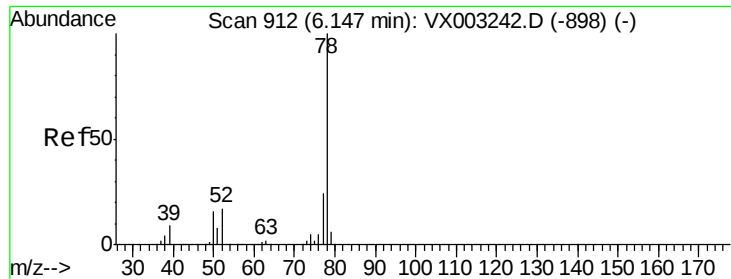


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#40

Benzene

Concen: 0.46 ug/l

RT: 6.14 min Scan# 911

Delta R.T. -0.01 min

Lab File: VX003308.D

Acq: 11 Jul 2018 02:50

Instrument :

MSVOA_X

ClientSampled :

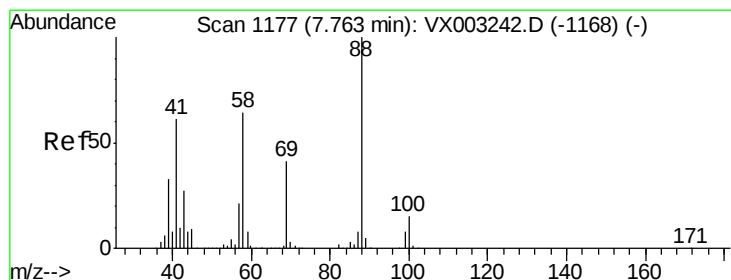
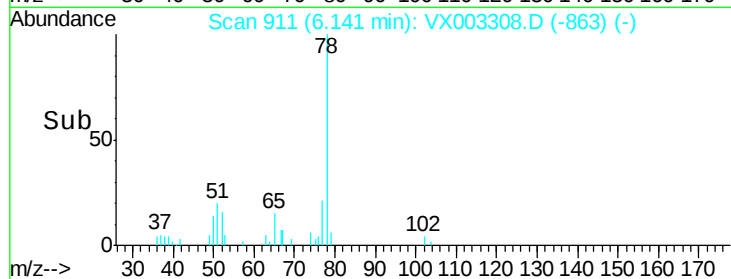
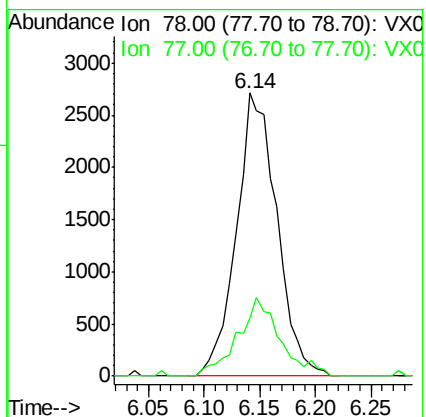
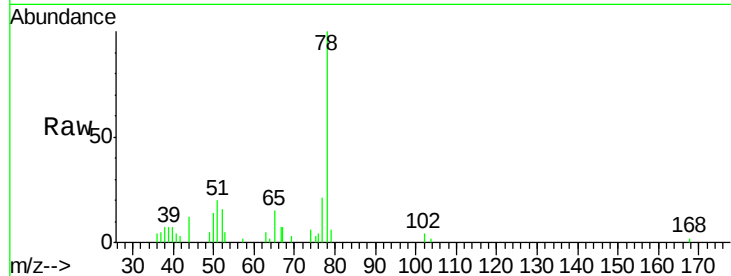
B3

Tot Ion: 78 Resp: 6851

Ion Ratio Lower Upper

78 100

77 20.6 19.1 28.7



#49

1,4-Dioxane

Concen: 0.21 ug/l

RT: 7.58 min Scan# 1147

Delta R.T. -0.18 min

Lab File: VX003308.D

Acq: 11 Jul 2018 02:50

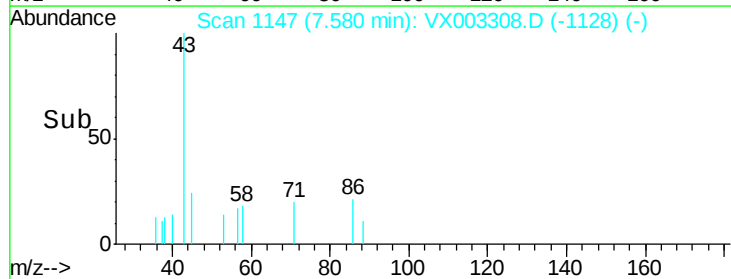
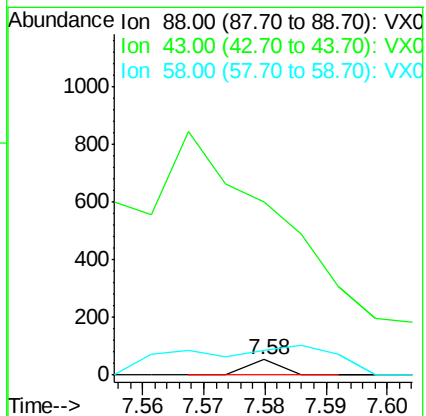
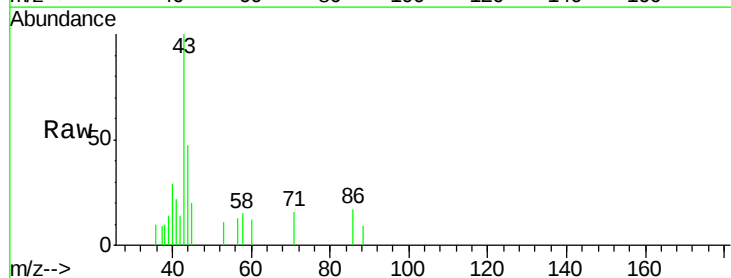
Tgt Ion: 88 Resp: 20

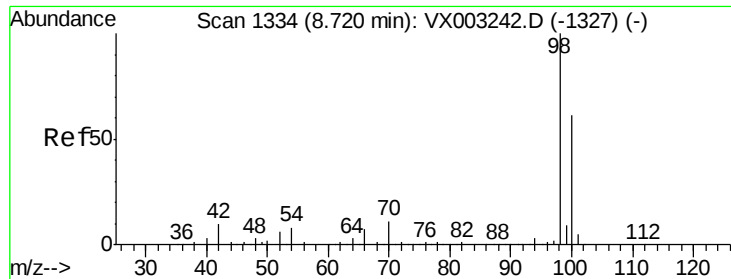
Ion Ratio Lower Upper

88 100

43 7115.0 29.8 44.6#

58 895.0 57.1 85.7#





#50

Toluene-d8

Concen: 37.18 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX003308.D

Acq: 11 Jul 2018 02:50

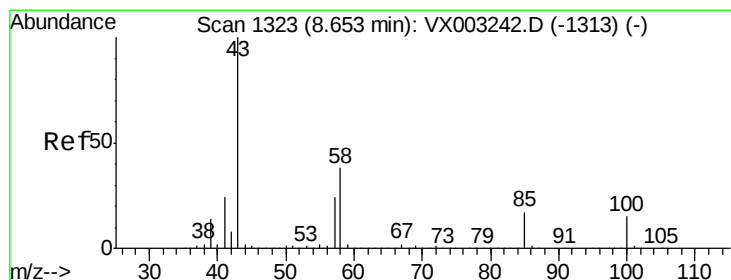
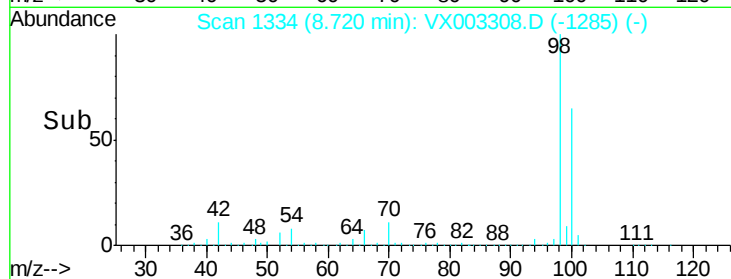
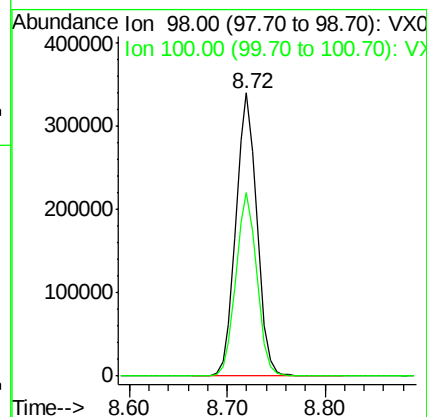
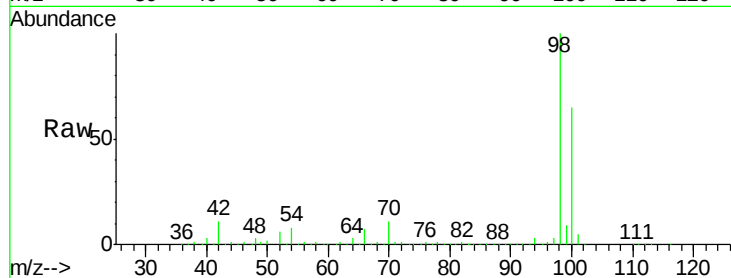
Instrument :
MSVOA_X
ClientSampleId :
B3

Tot Ion: 98 Resp: 508800

Ion Ratio Lower Upper

98 100

100 64.3 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 0.35 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VX003308.D

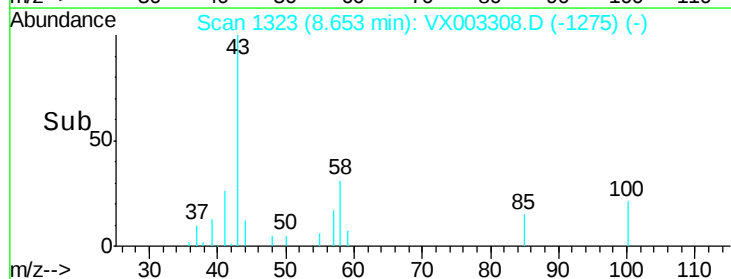
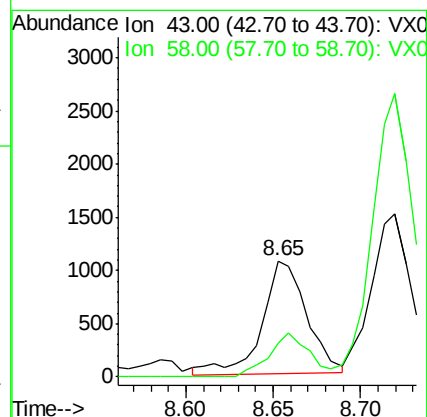
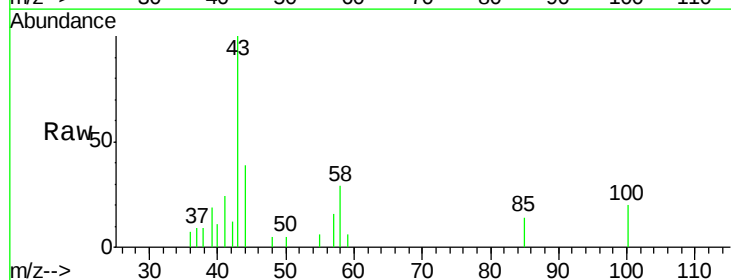
Acq: 11 Jul 2018 02:50

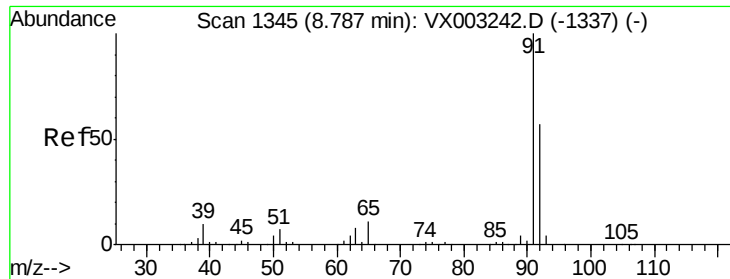
Tgt Ion: 43 Resp: 1908

Ion Ratio Lower Upper

43 100

58 34.9 28.6 42.8





#52

Toluene

Concen: 0.56 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX003308.D

Acq: 11 Jul 2018 02:50

Instrument :

MSVOA_X

ClientSampled :

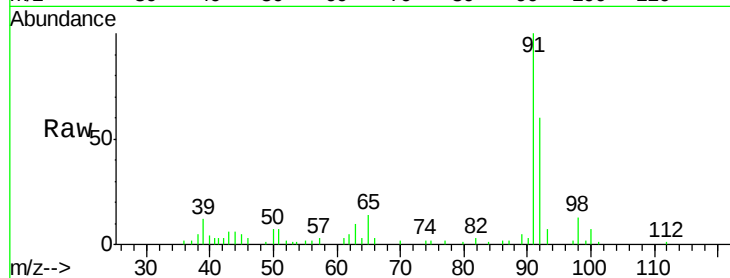
B3

Tot Ion: 92 Resp: 5291

Ion Ratio Lower Upper

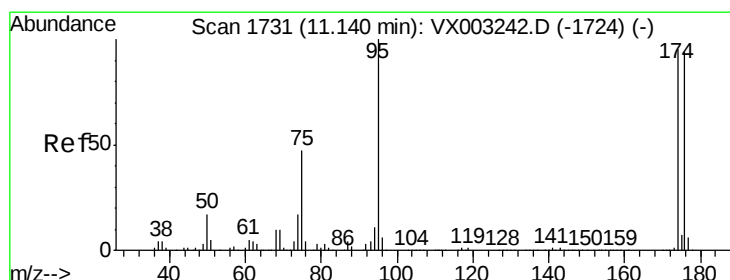
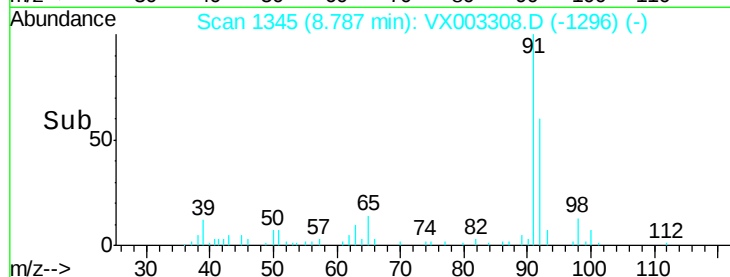
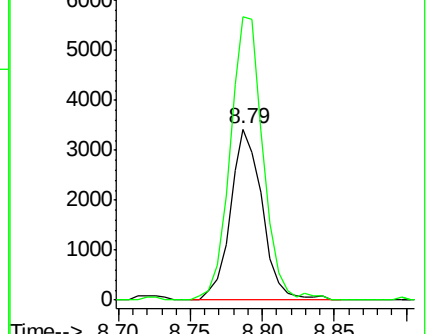
92 100

91 170.8 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 34.42 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX003308.D

Acq: 11 Jul 2018 02:50

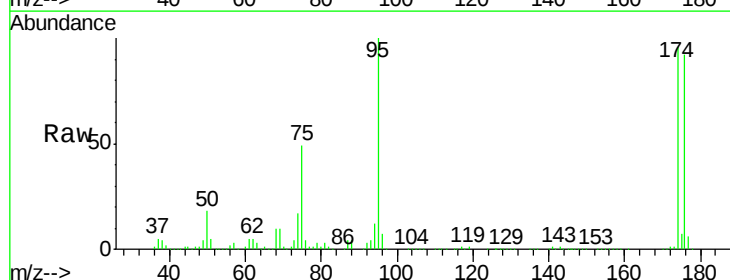
Tgt Ion: 95 Resp: 174062

Ion Ratio Lower Upper

95 100

174 101.2 0.0 187.4

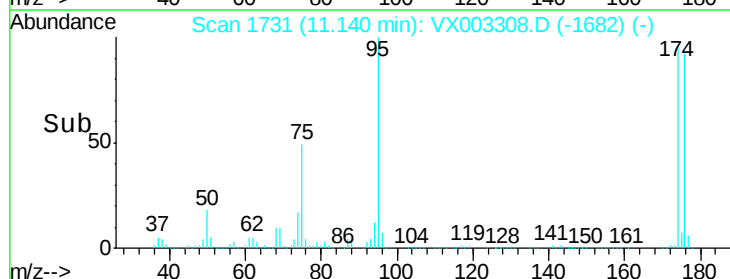
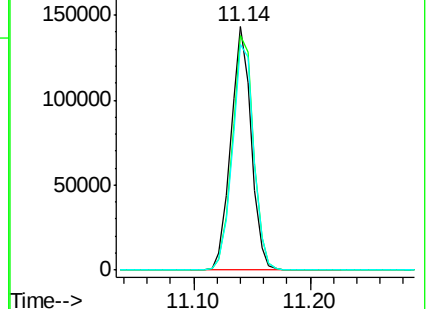
176 97.7 0.0 181.0

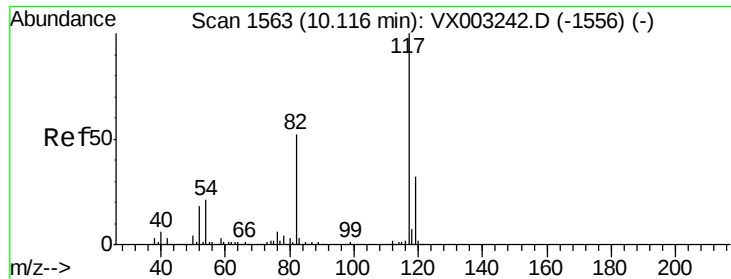


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

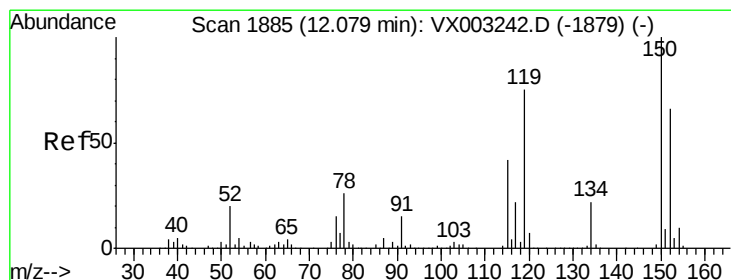
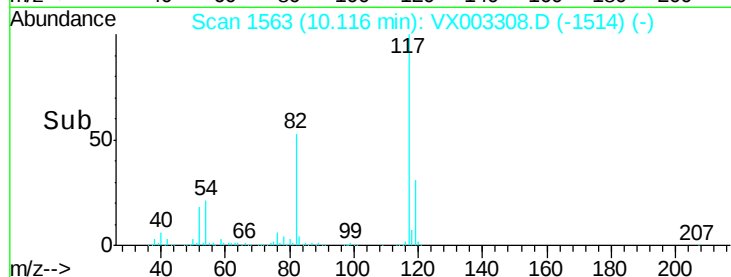
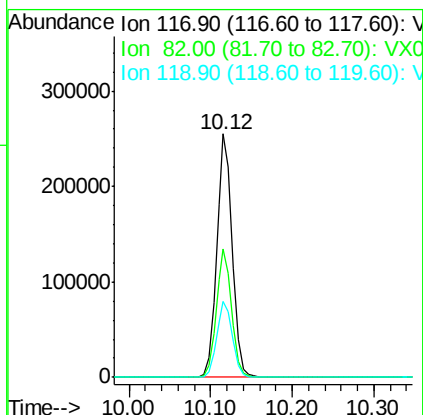
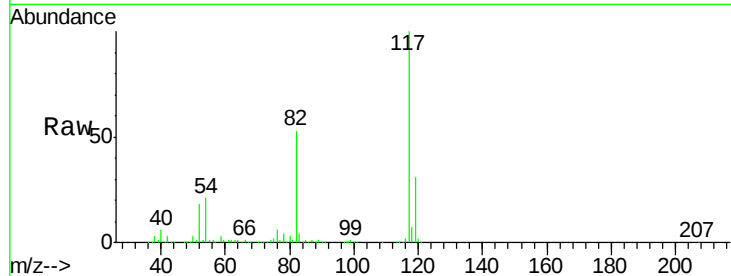




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003308.D
Acq: 11 Jul 2018 02:50

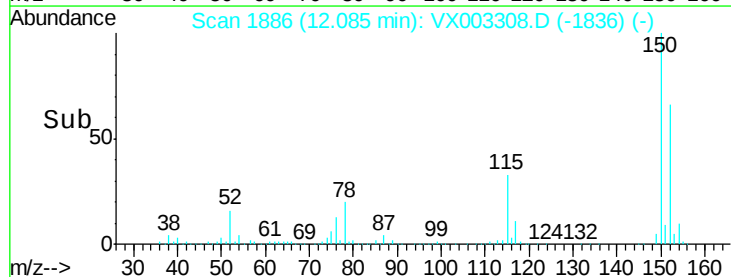
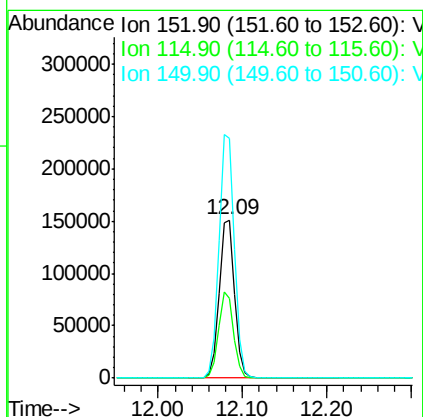
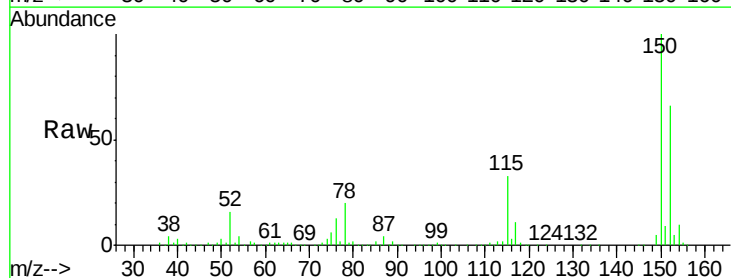
Instrument :
MSVOA_X
ClientSampleId :
B3

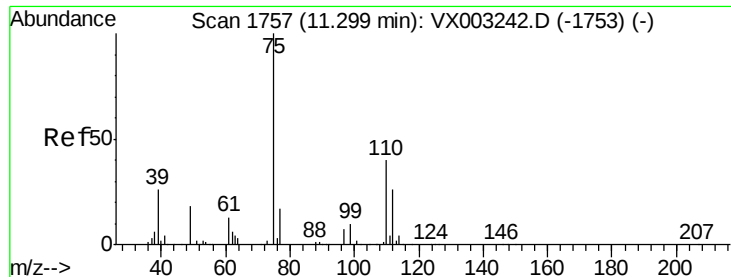
Tot Ion:117 Resp: 340209
Ion Ratio Lower Upper
117 100
82 52.5 45.0 67.4
119 31.3 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.01 min
Lab File: VX003308.D
Acq: 11 Jul 2018 02:50

Tgt Ion:152 Resp: 191061
Ion Ratio Lower Upper
152 100
115 53.3 40.1 120.2
150 154.8 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 20.94 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003308.D

Acq: 11 Jul 2018 02:50

Instrument :

MSVOA_X

ClientSampled :

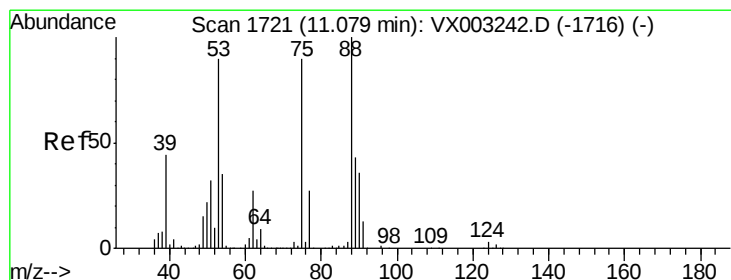
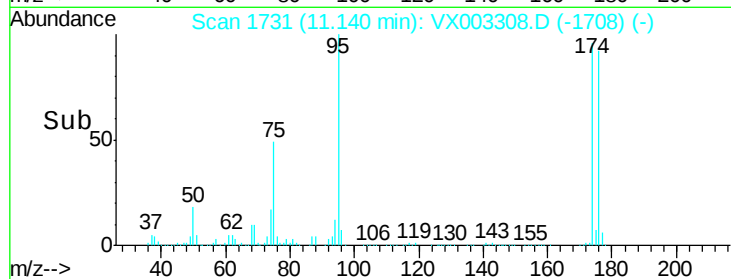
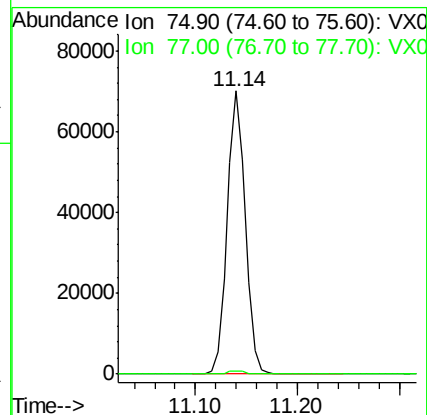
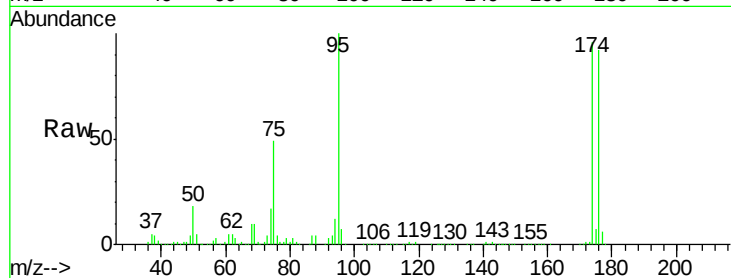
B3

Tot Ion: 75 Resp: 86466

Ion Ratio Lower Upper

75 100

77 1.3 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 68.44 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003308.D

Acq: 11 Jul 2018 02:50

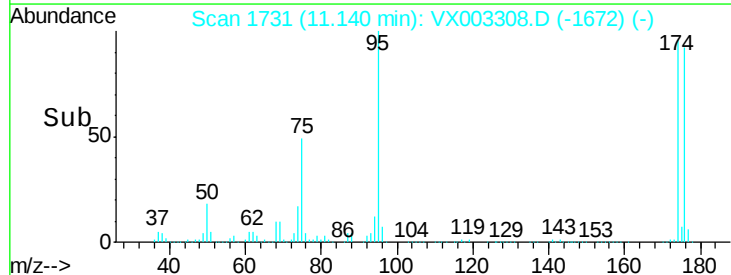
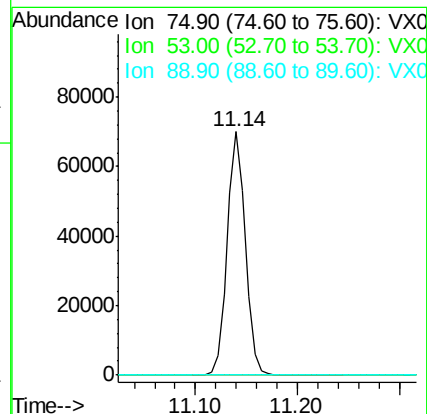
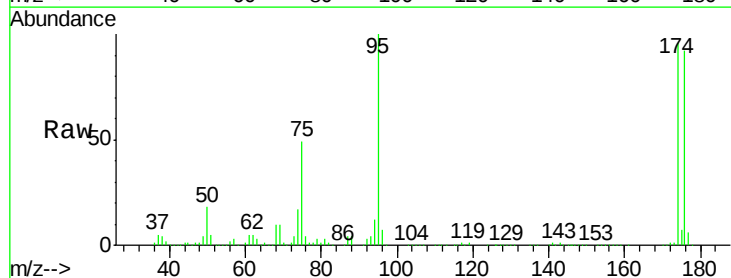
Tgt Ion: 75 Resp: 86466

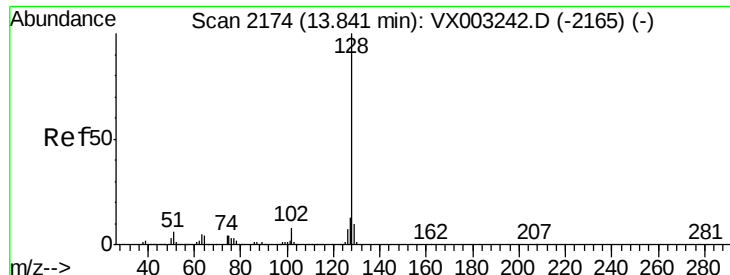
Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#

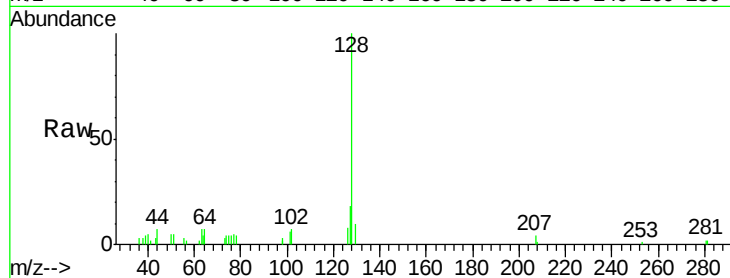




#95
Naphthalene
Concen: 0.29 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. 0.01 min
Lab File: VX003308.D
Acq: 11 Jul 2018 02:50

Instrument :
MSVOA_X
ClientSampleId :
B3

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.9	10.4	15.6#
129	12.2	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

