

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071018\
 Data File : VX003307.D
 Acq On : 11 Jul 2018 02:23
 Operator : JC/MD
 Sample : J3914-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 B2

Quant Time: Jul 11 04:58:19 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	270562	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	372292	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	345279	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	193552	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	161927	38.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.06%	
35) Dibromofluoromethane	5.51	113	140975	35.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.50%	
50) Toluene-d8	8.72	98	523969	36.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	73.76%	
62) 4-Bromofluorobenzene	11.14	95	178225	33.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	67.90%	

Target Compounds

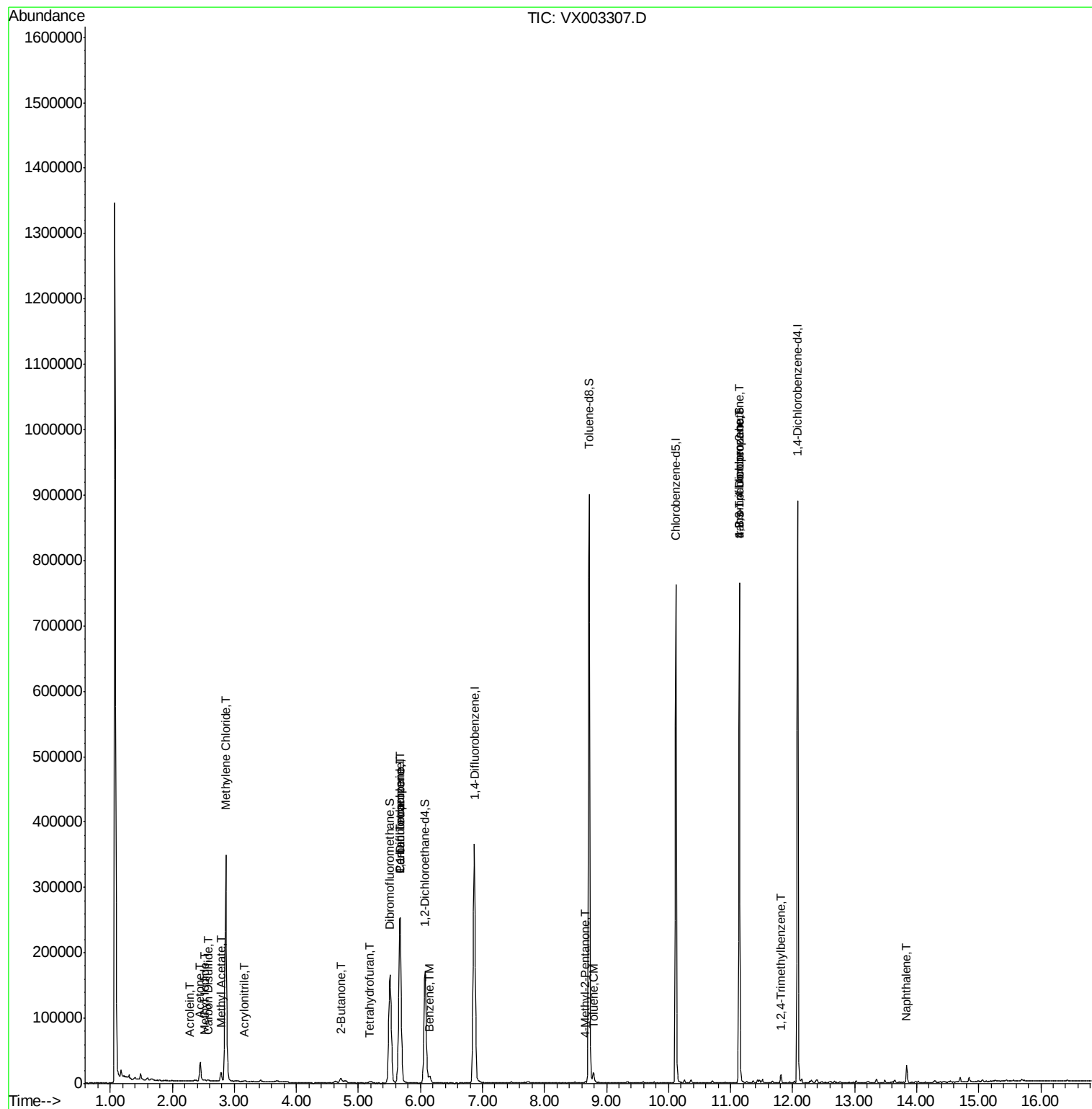
						Qvalue
5) Bromomethane	1.66	94	1382	Below Cal		97
10) Methyl Iodide	2.52	142	2569	6.27 ug/l	#	96
13) Acrolein	2.29	56	348	0.56 ug/l		97
15) Acrylonitrile	3.16	53	349	0.20 ug/l	#	66
16) Acetone	2.45	43	32520	21.51 ug/l		97
17) Carbon Disulfide	2.57	76	2168	0.26 ug/l	#	87
18) Methyl Acetate	2.78	43	17081	4.01 ug/l		92
20) Methylene Chloride	2.86	84	162985	52.65 ug/l		92
25) 2-Butanone	4.72	43	13008	4.86 ug/l		97
29) Tetrahydrofuran	5.17	42	1935	1.11 ug/l	#	85
36) 1,1-Dichloropropene	5.67	75	16020	3.04 ug/l	#	51
38) Carbon Tetrachloride	5.67	117	23388	4.06 ug/l	#	16
40) Benzene	6.15	78	10661	0.68 ug/l		98
51) 4-Methyl-2-Pentanone	8.66	43	1365	0.24 ug/l		96
52) Toluene	8.79	92	4781	0.48 ug/l		100
76) 1,2,3-Trichloropropane	11.14	75	88067	21.05 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	88067	68.81 ug/l	#	7
84) 1,2,4-Trimethylbenzene	11.81	105	5350	0.41 ug/l		100
95) Naphthalene	13.83	128	16853	1.09 ug/l		99

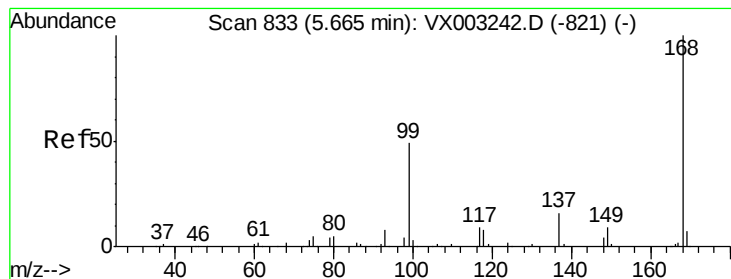
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX003307.D

Acq: 11 Jul 2018 02:23

Instrument :

MSVOA_X

ClientSampled :

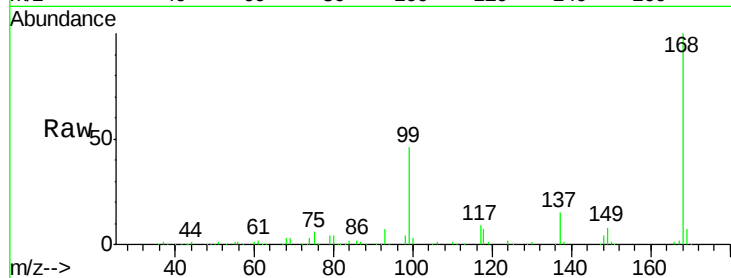
B2

Tot Ion:168 Resp: 270562

Ion Ratio Lower Upper

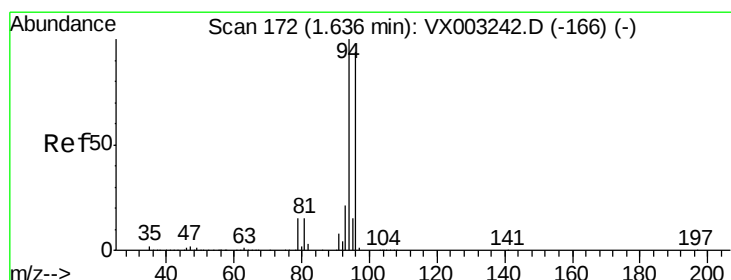
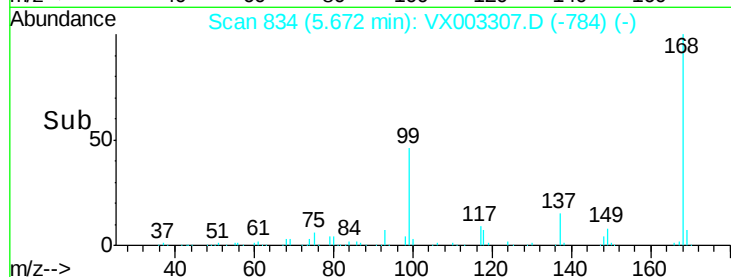
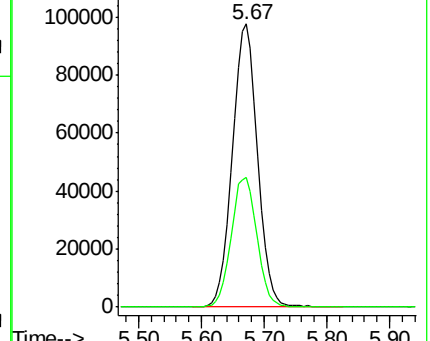
168 100

99 45.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX003307.D

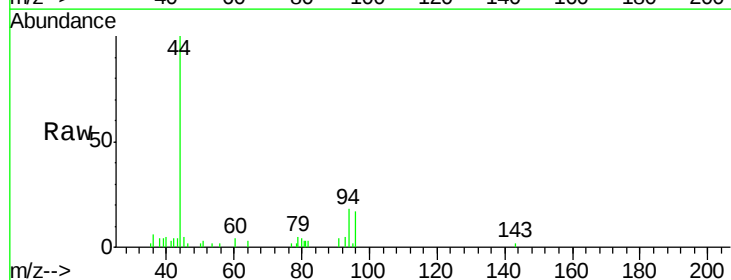
Acq: 11 Jul 2018 02:23

Tgt Ion: 94 Resp: 1382

Ion Ratio Lower Upper

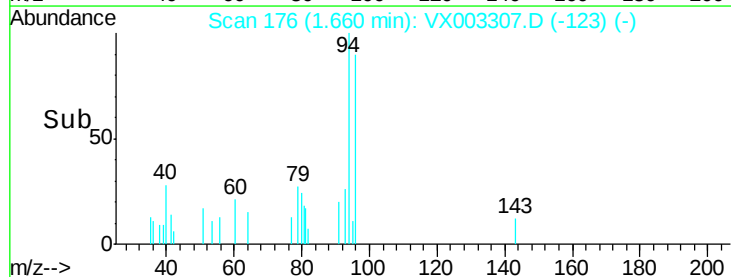
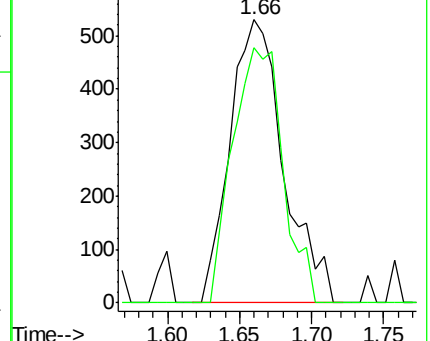
94 100

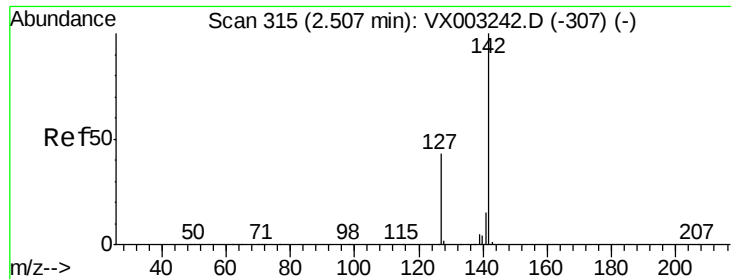
96 90.4 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

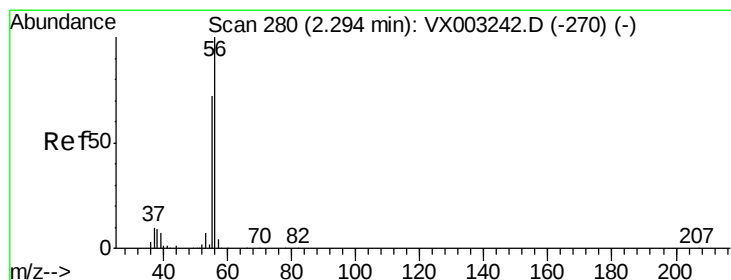
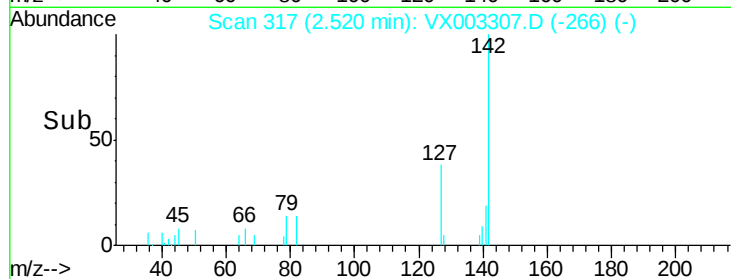
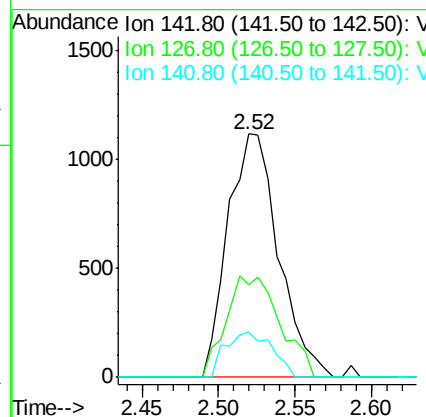
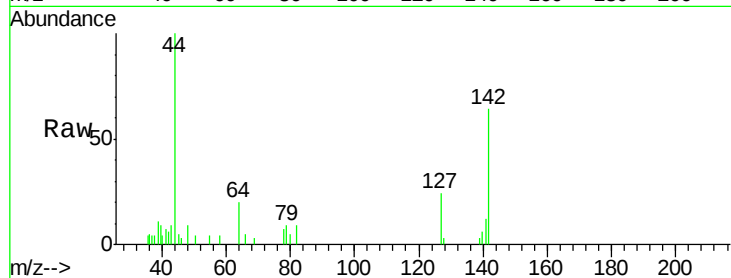




#10
Methvl Iodide
Concen: 6.27 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003307.D
Acq: 11 Jul 2018 02:23

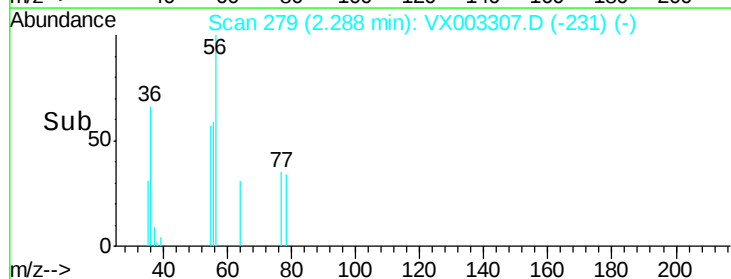
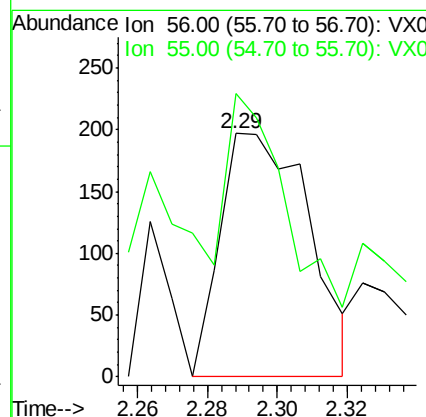
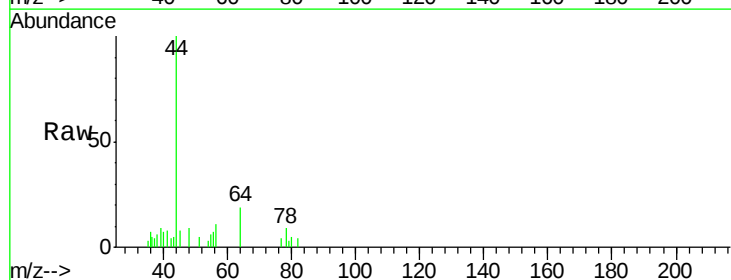
Instrument :
MSVOA_X
ClientSampled :
B2

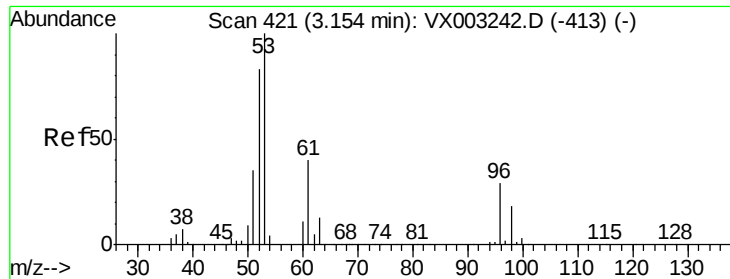
Tot Ion:142 Resp: 2569
Ion Ratio Lower Upper
142 100
127 43.9 36.6 55.0
141 17.0 11.3 16.9#



#13
Acrolein
Concen: 0.56 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX003307.D
Acq: 11 Jul 2018 02:23

Tgt Ion: 56 Resp: 348
Ion Ratio Lower Upper
56 100
55 69.0 57.0 85.4





#15

Acrylonitrile

Concen: 0.20 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX003307.D

Acq: 11 Jul 2018 02:23

Instrument :

MSVOA_X

ClientSampled :

B2

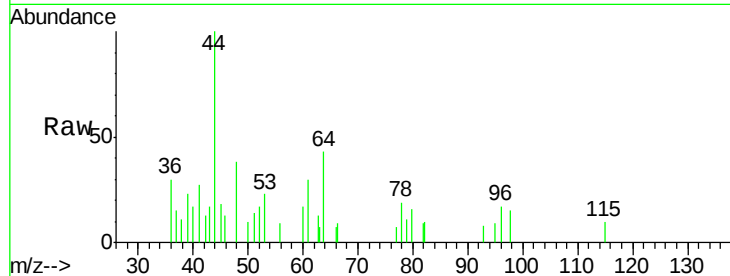
Tot Ion: 53 Resp: 349

Ion Ratio Lower Upper

53 100

52 102.9 66.7 100.1#

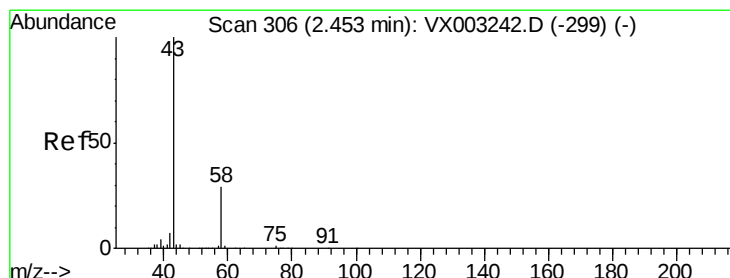
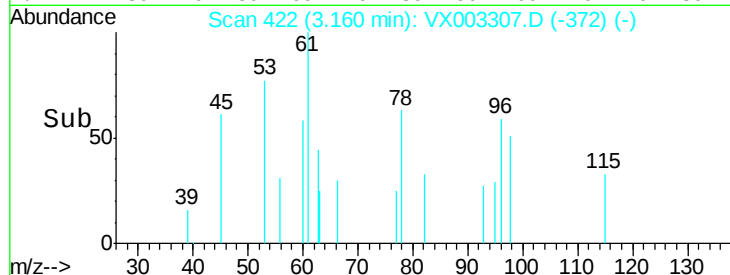
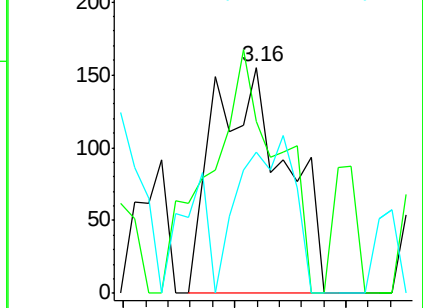
51 0.0 29.9 44.9#



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: 21.51 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003307.D

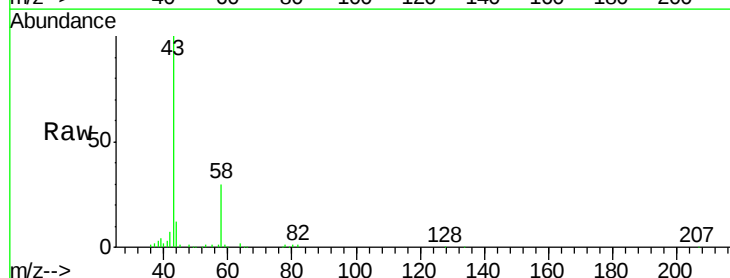
Acq: 11 Jul 2018 02:23

Tgt Ion: 43 Resp: 32520

Ion Ratio Lower Upper

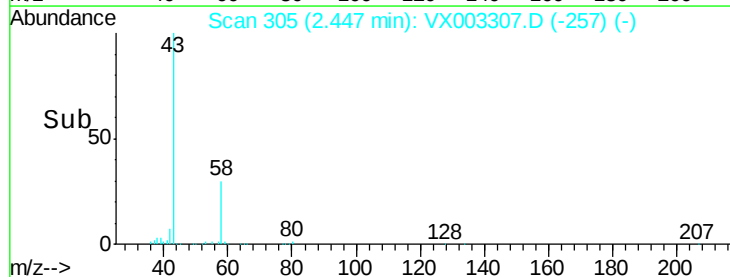
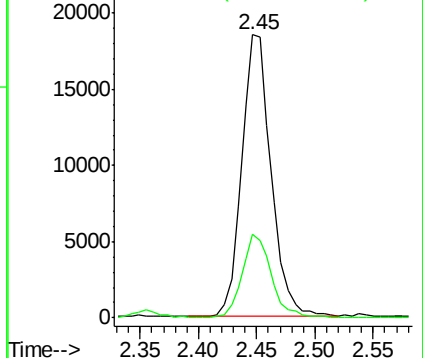
43 100

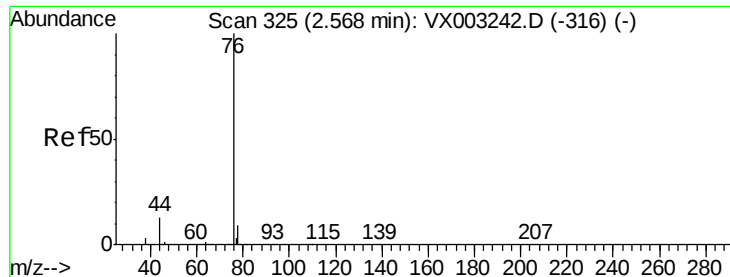
58 29.4 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.26 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003307.D

Acq: 11 Jul 2018 02:23

Instrument :

MSVOA_X

ClientSampled :

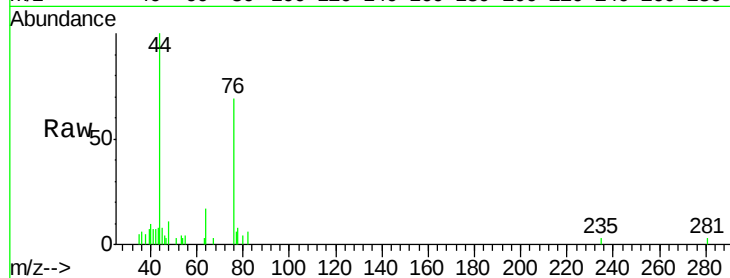
B2

Tot Ion: 76 Resp: 2168

Ion Ratio Lower Upper

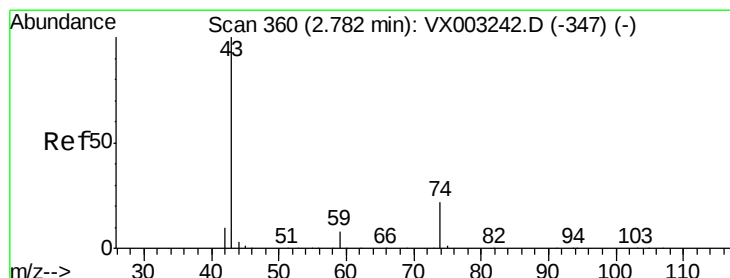
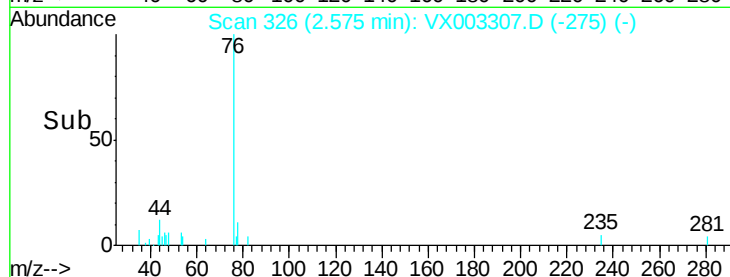
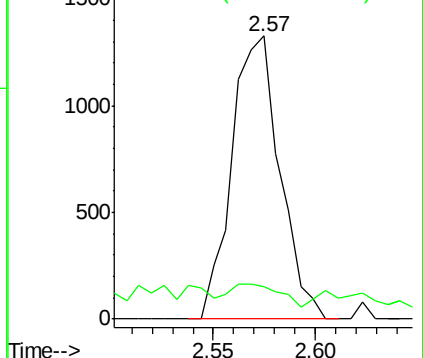
76 100

78 4.1 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 4.01 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX003307.D

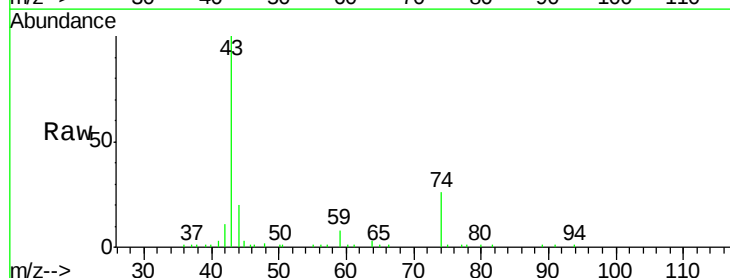
Acq: 11 Jul 2018 02:23

Tgt Ion: 43 Resp: 17081

Ion Ratio Lower Upper

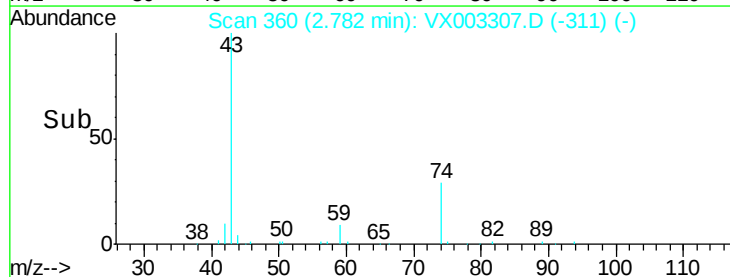
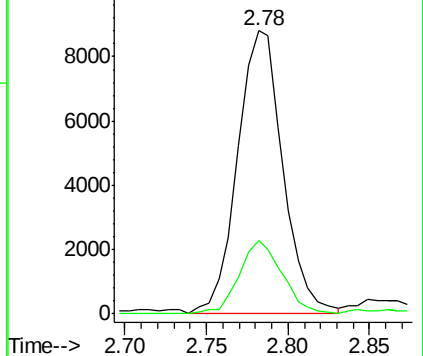
43 100

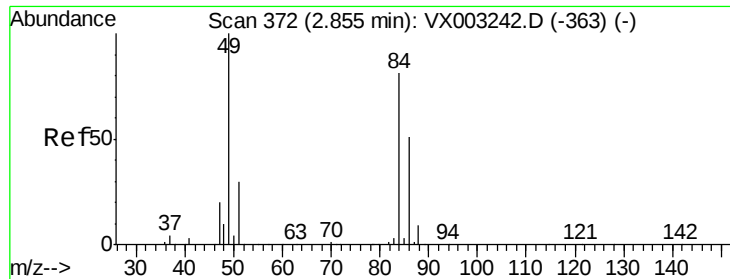
74 24.4 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

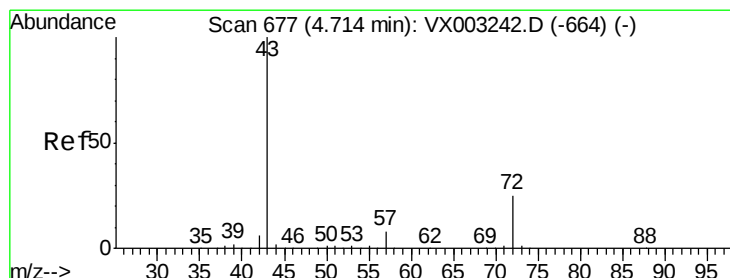
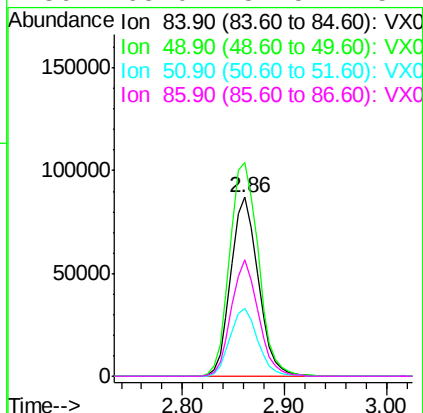
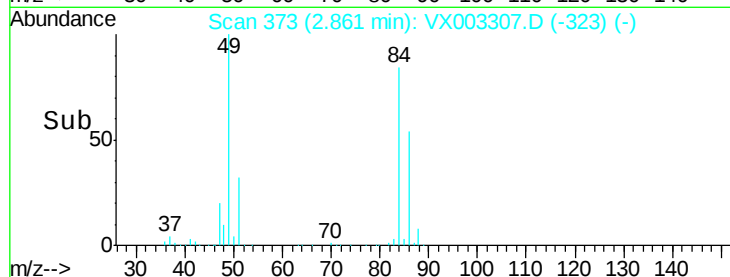
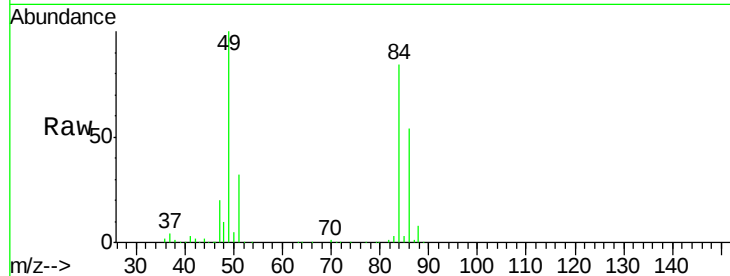




#20
Methvlene Chloride
Concen: 52.65 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX003307.D
Acq: 11 Jul 2018 02:23

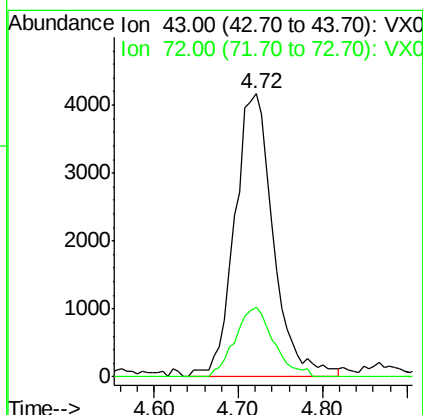
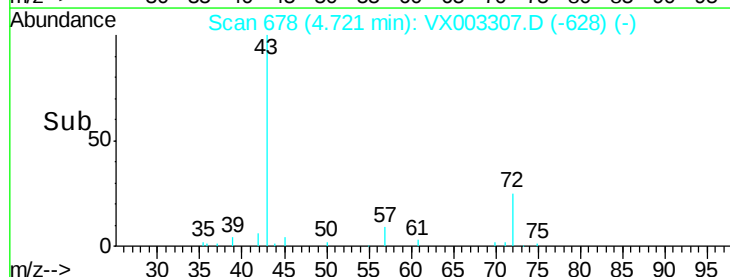
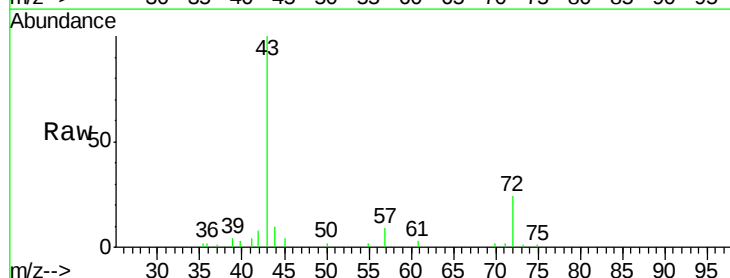
Instrument :
MSVOA_X
ClientSampleId :
B2

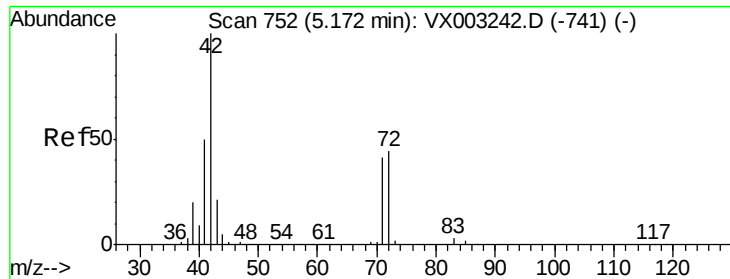
Tot Ion: 84 Resp: 162985
Ion Ratio Lower Upper
84 100
49 119.6 107.8 161.6
51 37.6 32.8 49.2
86 65.0 52.5 78.7



#25
2-Butanone
Concen: 4.86 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX003307.D
Acq: 11 Jul 2018 02:23

Tgt Ion: 43 Resp: 13008
Ion Ratio Lower Upper
43 100
72 24.4 18.5 27.7





#29

Tetrahydrofuran

Concen: 1.11 ug/l

RT: 5.17 min Scan# 752

Delta R.T. -0.00 min

Lab File: VX003307.D

Acq: 11 Jul 2018 02:23

Instrument :

MSVOA_X

ClientSampleId :

B2

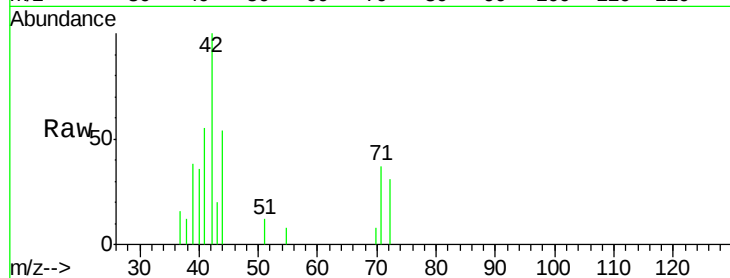
Tot Ion: 42 Resp: 1935

Ion Ratio Lower Upper

42 100

72 21.7 32.0 48.0#

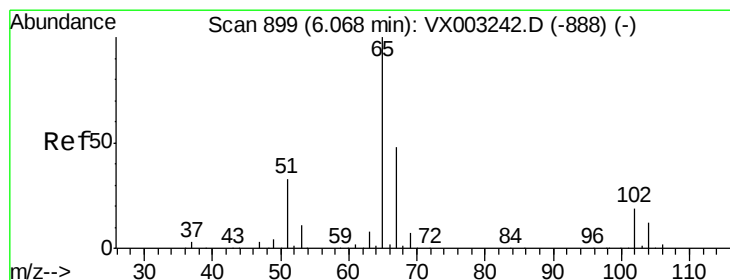
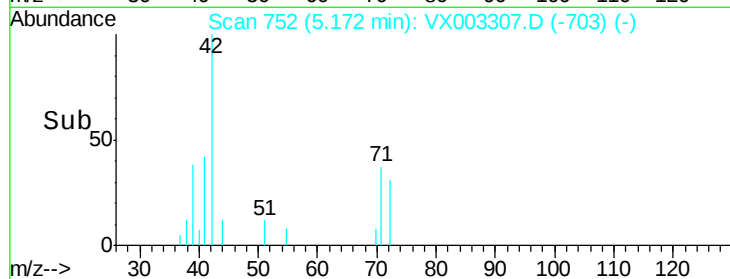
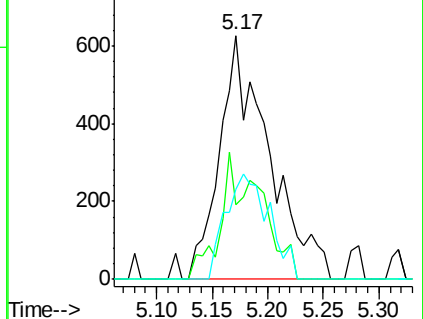
71 37.9 30.1 45.1



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



#33

1,2-Dichloroethane-d4

Concen: 38.03 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX003307.D

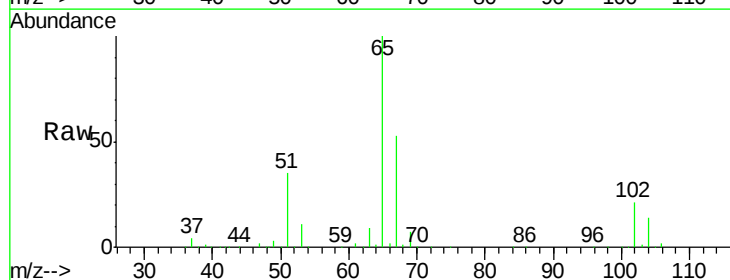
Acq: 11 Jul 2018 02:23

Tgt Ion: 65 Resp: 161927

Ion Ratio Lower Upper

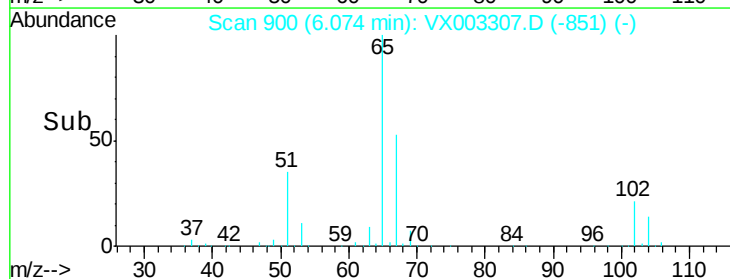
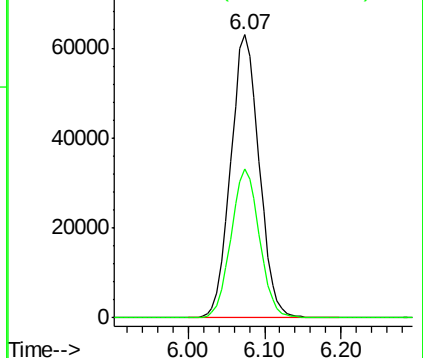
65 100

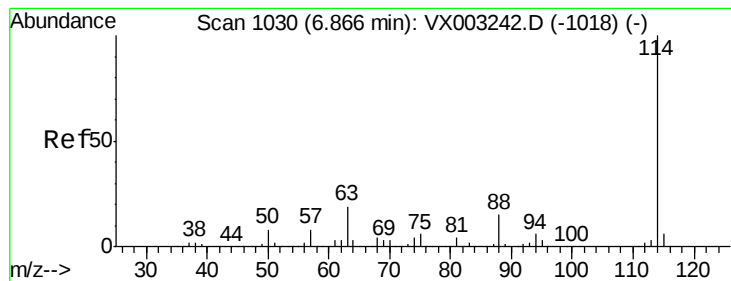
67 52.7 0.0 102.6



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: VX003307.D

Acq: 11 Jul 2018 02:23

Instrument :
MSVOA_X
ClientSampleId :
B2

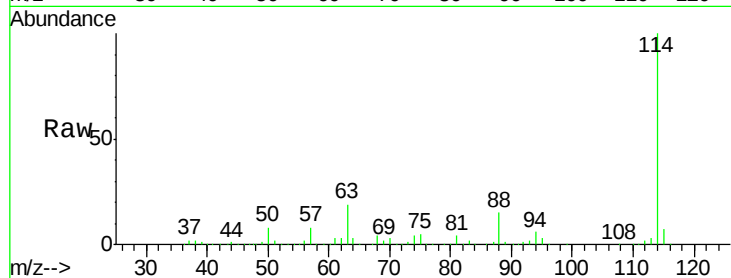
Tot Ion:114 Resp: 372292

Ion Ratio Lower Upper

114 100

63 19.4 0.0 41.4

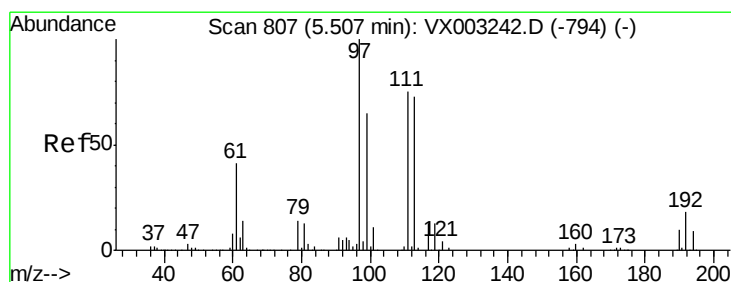
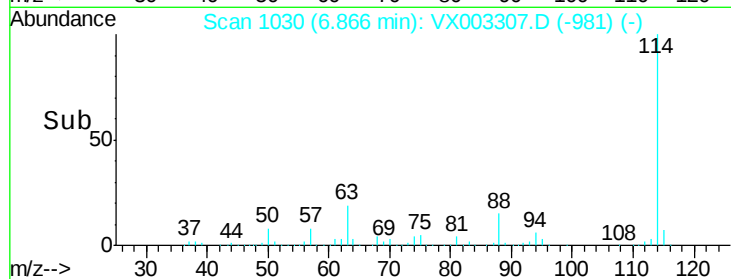
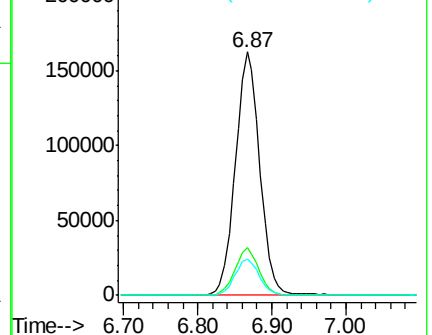
88 15.0 0.0 30.0



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: 35.25 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003307.D

Acq: 11 Jul 2018 02:23

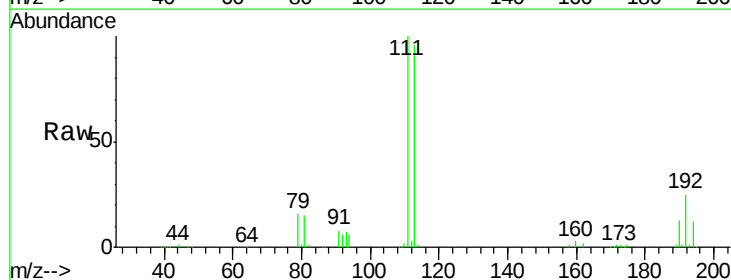
Tgt Ion:113 Resp: 140975

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

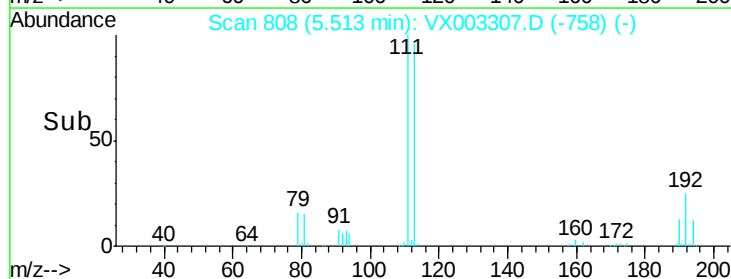
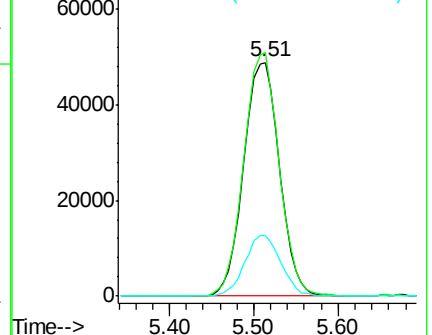
192 26.1 19.1 28.7

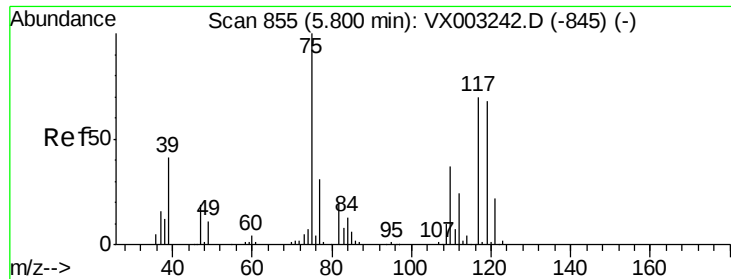


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.04 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003307.D

Acq: 11 Jul 2018 02:23

Instrument :

MSVOA_X

ClientSampleId :

B2

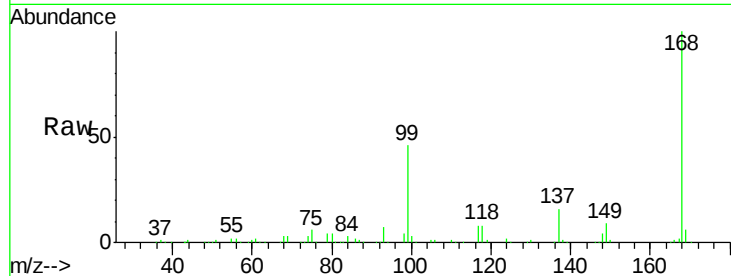
Tot Ion: 75 Resp: 16020

Ion Ratio Lower Upper

75 100

110 10.9 18.1 54.4#

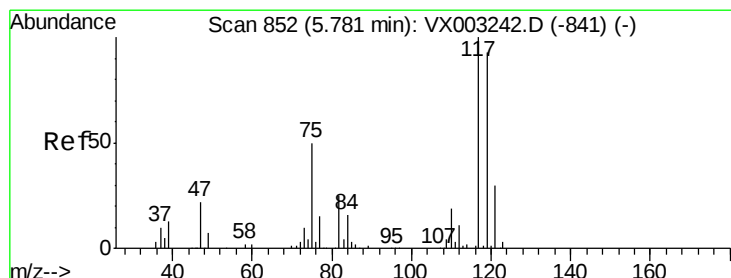
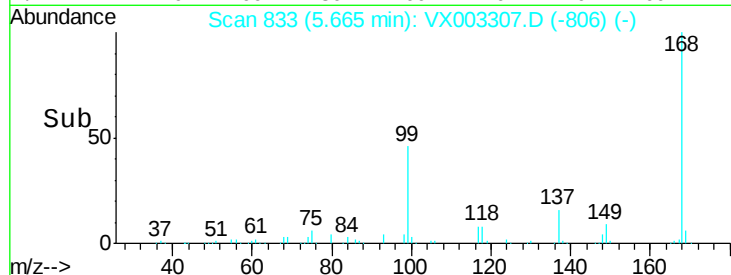
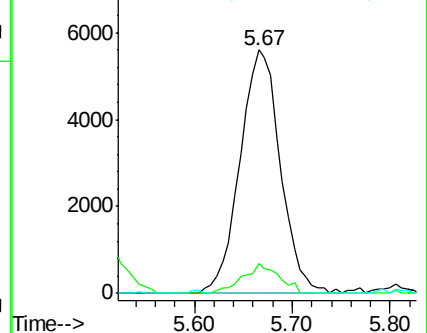
77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX003307.D (-806) (-)

Ion 109.90 (109.60 to 110.60): VX003307.D (-806) (-)

Ion 76.90 (76.60 to 77.60): VX003307.D (-806) (-)



#38

Carbon Tetrachloride

Concen: 4.06 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.11 min

Lab File: VX003307.D

Acq: 11 Jul 2018 02:23

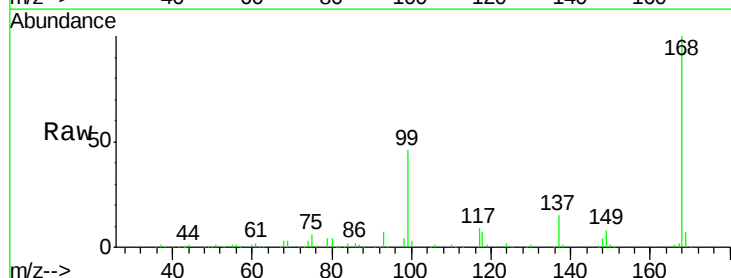
Tgt Ion: 117 Resp: 23388

Ion Ratio Lower Upper

117 100

119 6.1 77.4 116.0#

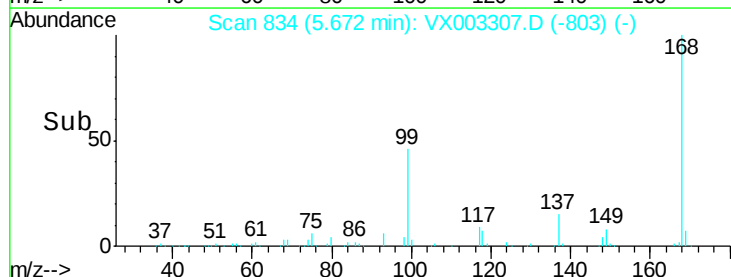
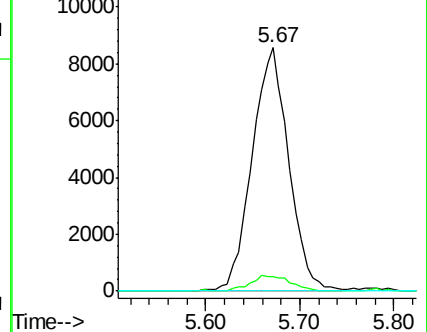
121 0.0 24.4 36.6#

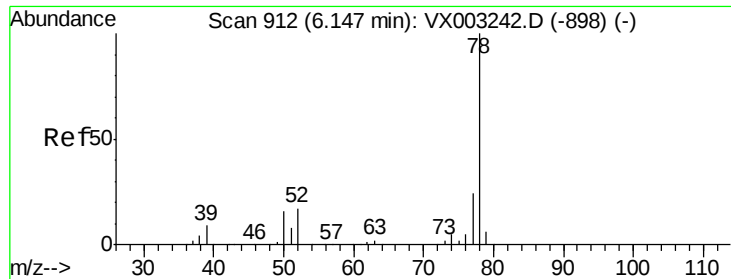


Abundance Ion 116.80 (116.50 to 117.50): VX003307.D (-803) (-)

Ion 118.80 (118.50 to 119.50): VX003307.D (-803) (-)

Ion 120.80 (120.50 to 121.50): VX003307.D (-803) (-)

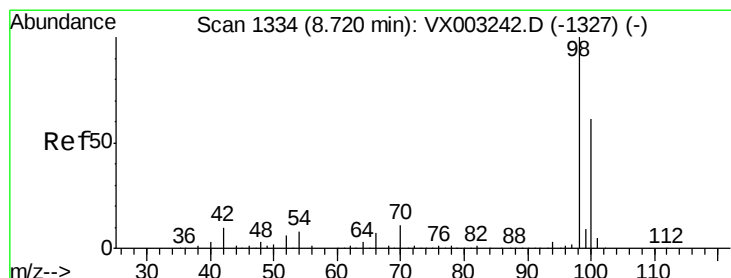
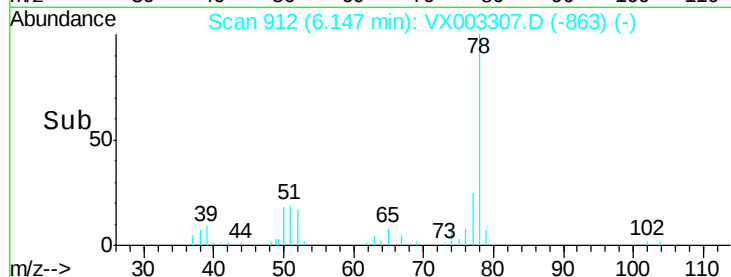
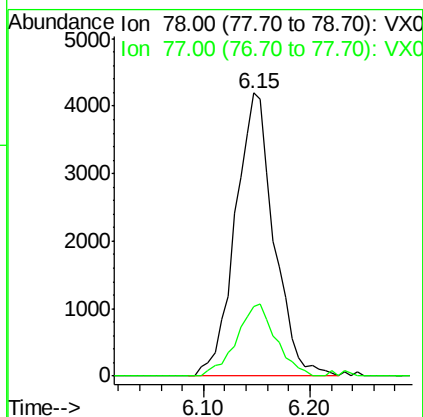
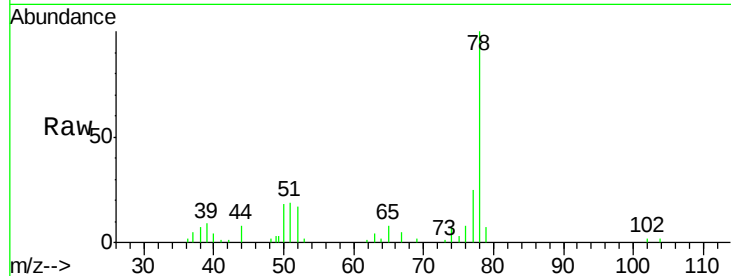




#40
Benzene
Concen: 0.68 ug/l
RT: 6.15 min Scan# 912
Delta R.T. -0.00 min
Lab File: VX003307.D
Acq: 11 Jul 2018 02:23

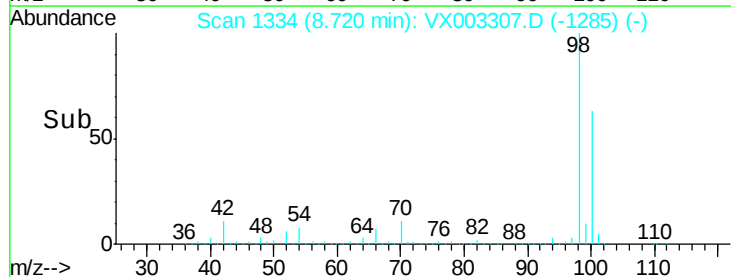
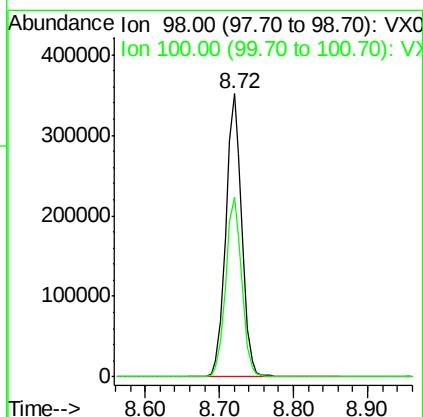
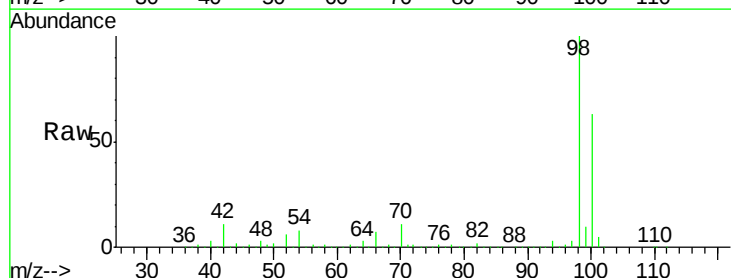
Instrument :
MSVOA_X
ClientSampleId :
B2

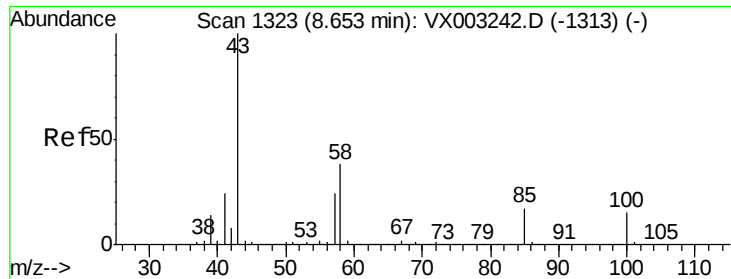
Tot Ion: 78 Resp: 10661
Ion Ratio Lower Upper
78 100
77 24.7 19.1 28.7



#50
Toluene-d8
Concen: 36.88 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX003307.D
Acq: 11 Jul 2018 02:23

Tgt Ion: 98 Resp: 523969
Ion Ratio Lower Upper
98 100
100 64.0 50.9 76.3

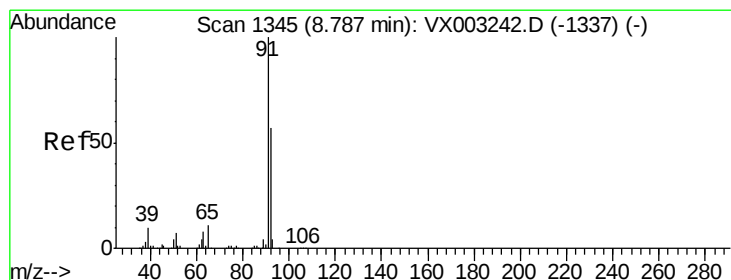
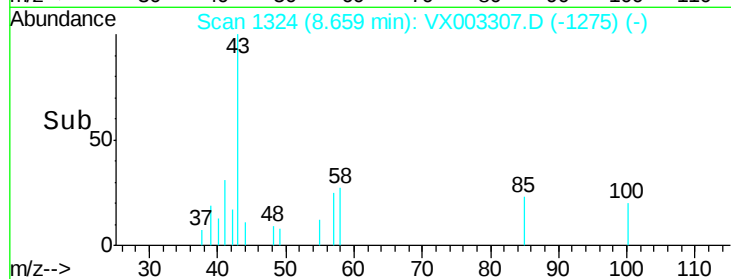
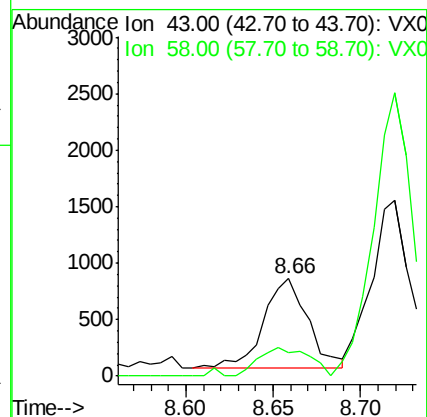
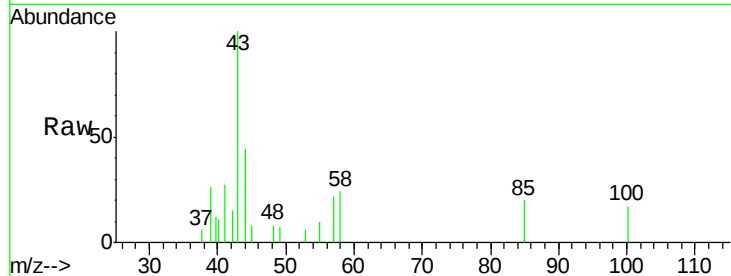




#51
4-Methyl-2-Pentanone
Concen: 0.24 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VX003307.D
Acq: 11 Jul 2018 02:23

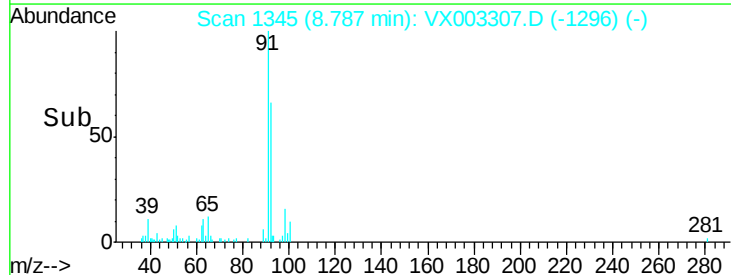
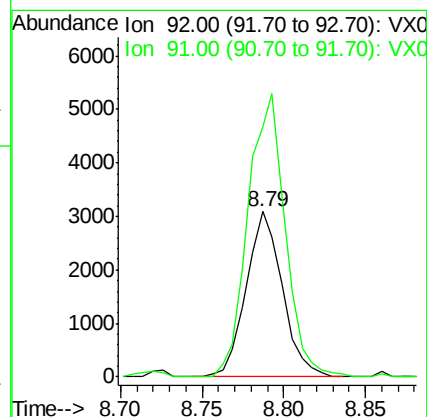
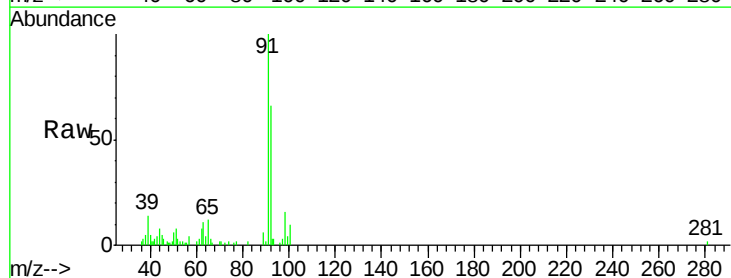
Instrument :
MSVOA_X
ClientSampled :
B2

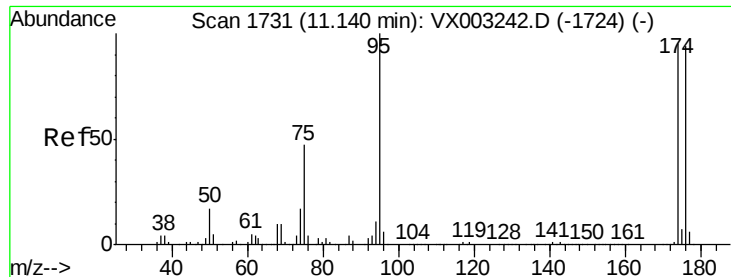
Tot Ion: 43 Resp: 1365
Ion Ratio Lower Upper
43 100
58 38.0 28.6 42.8



#52
Toluene
Concen: 0.48 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. -0.00 min
Lab File: VX003307.D
Acq: 11 Jul 2018 02:23

Tgt Ion: 92 Resp: 4781
Ion Ratio Lower Upper
92 100
91 175.7 140.4 210.6

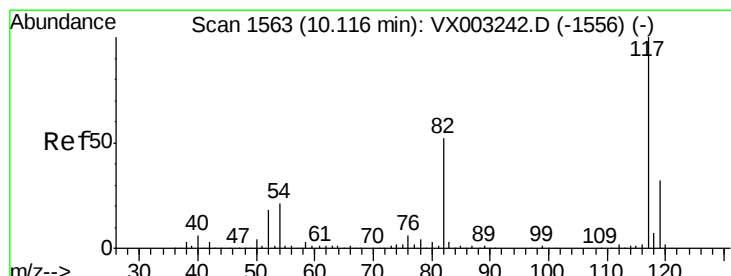
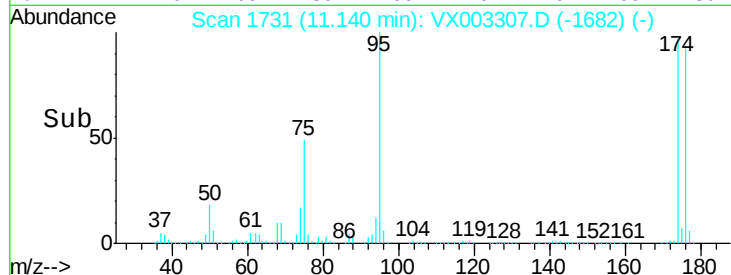
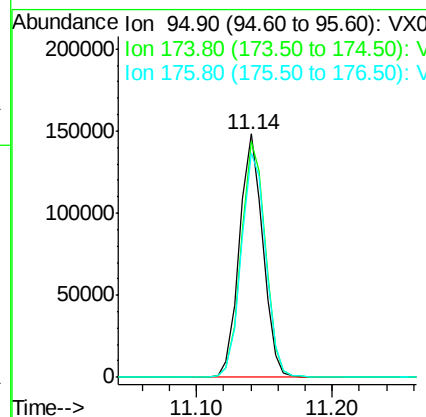
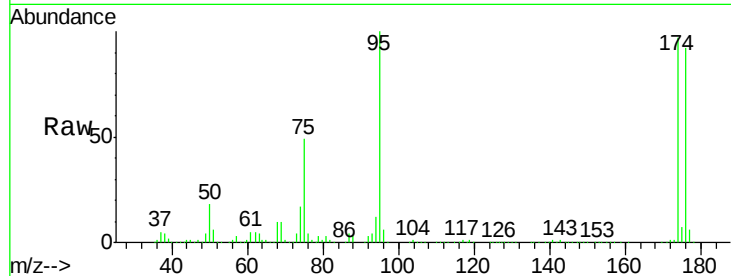




#62
4-Bromofluorobenzene
Concen: 33.95 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX003307.D
Acq: 11 Jul 2018 02:23

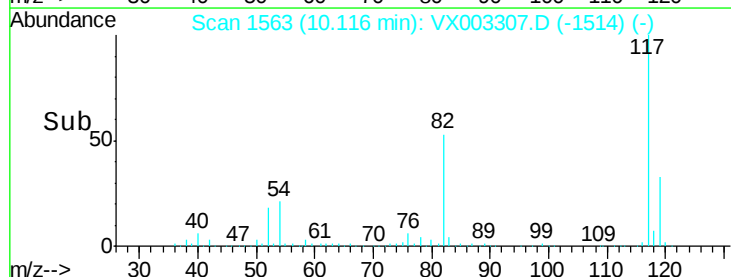
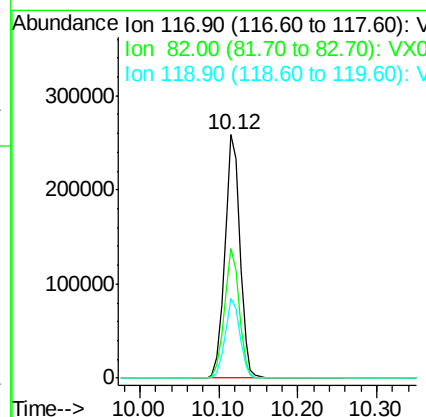
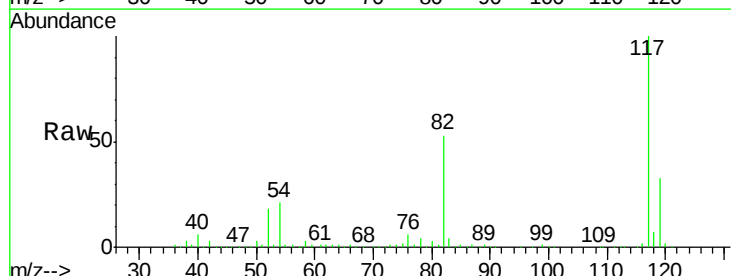
Instrument :
MSVOA_X
ClientSampleId :
B2

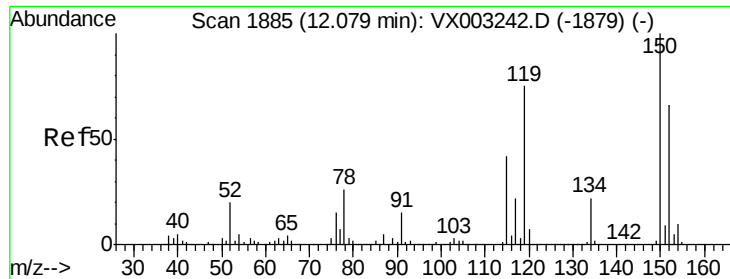
Tot Ion: 95 Resp: 178225
Ion Ratio Lower Upper
95 100
174 100.0 0.0 187.4
176 96.0 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX003307.D
Acq: 11 Jul 2018 02:23

Tgt Ion: 117 Resp: 345279
Ion Ratio Lower Upper
117 100
82 53.1 45.0 67.4
119 32.6 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX003307.D

Acq: 11 Jul 2018 02:23

Instrument :

MSVOA_X

ClientSampled :

B2

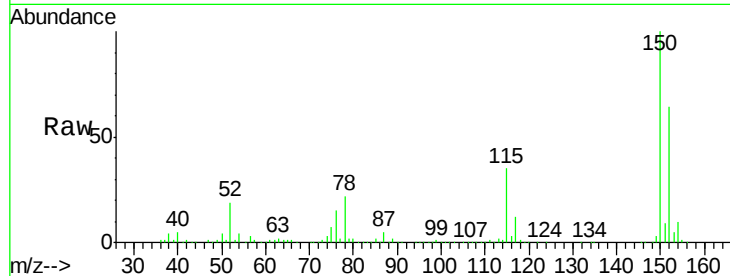
Tot Ion:152 Resp: 193552

Ion Ratio Lower Upper

152 100

115 53.5 40.1 120.2

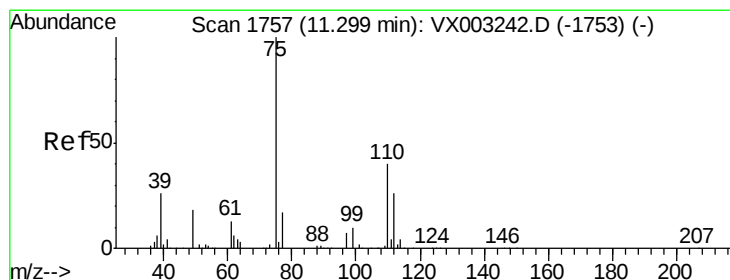
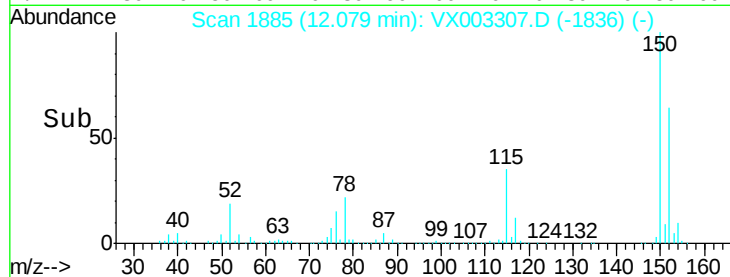
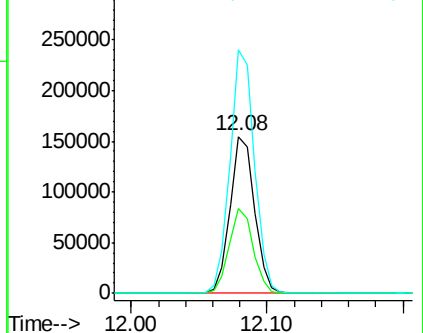
150 155.6 0.0 347.2



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: 21.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003307.D

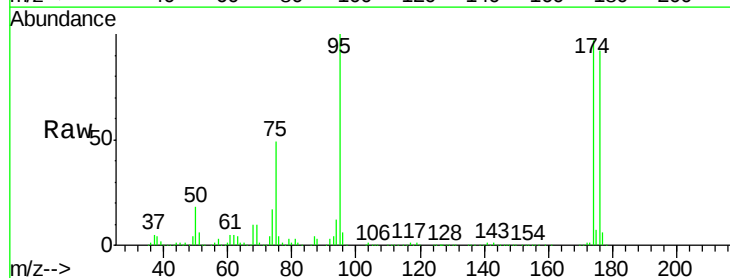
Acq: 11 Jul 2018 02:23

Tgt Ion: 75 Resp: 88067

Ion Ratio Lower Upper

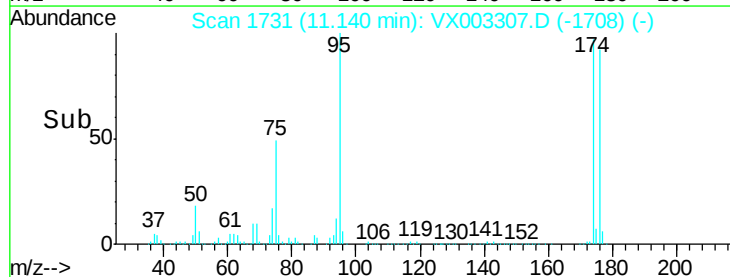
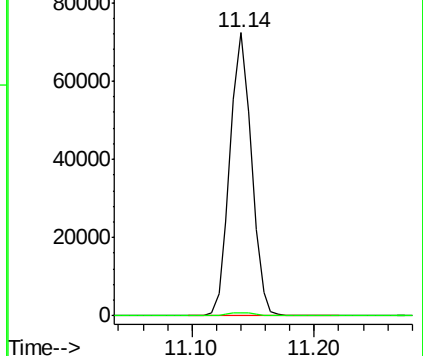
75 100

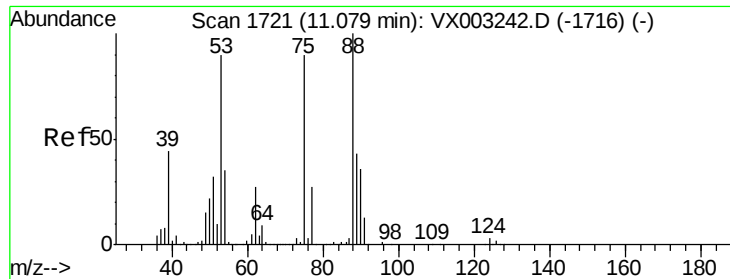
77 1.3 22.8 68.3#



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: 68.81 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003307.D

Acq: 11 Jul 2018 02:23

Instrument :

MSVOA_X

ClientSampled :

B2

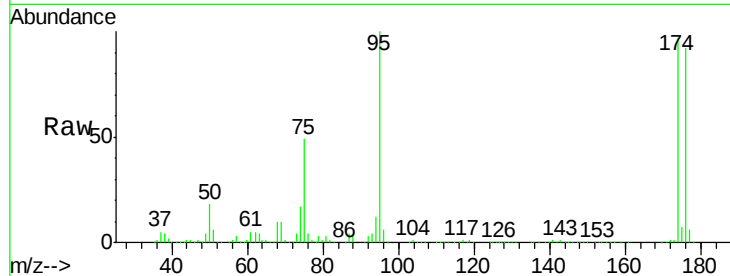
Tot Ion: 75 Resp: 88067

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

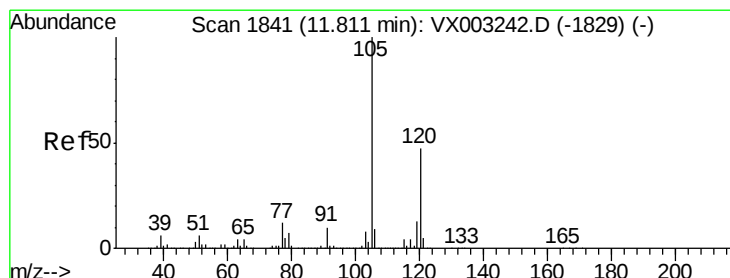
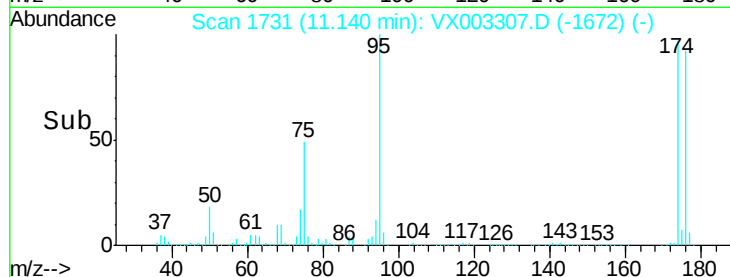
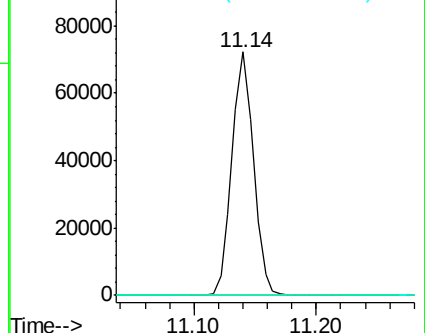
89 0.0 38.2 57.2#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.41 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX003307.D

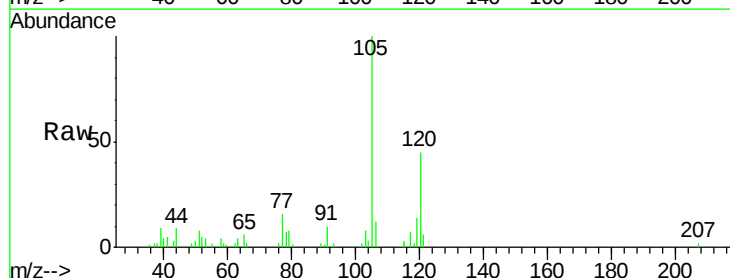
Acq: 11 Jul 2018 02:23

Tgt Ion: 105 Resp: 5350

Ion Ratio Lower Upper

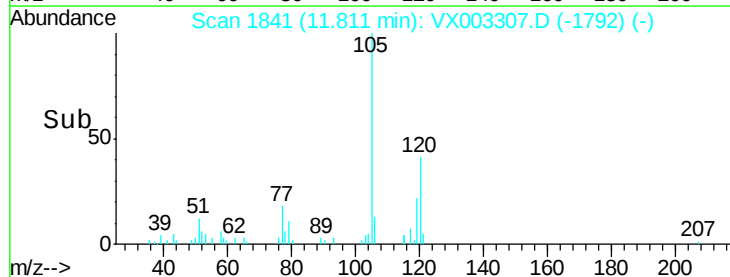
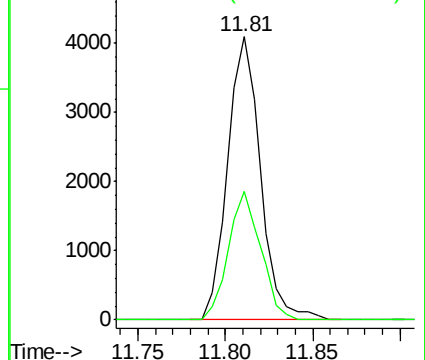
105 100

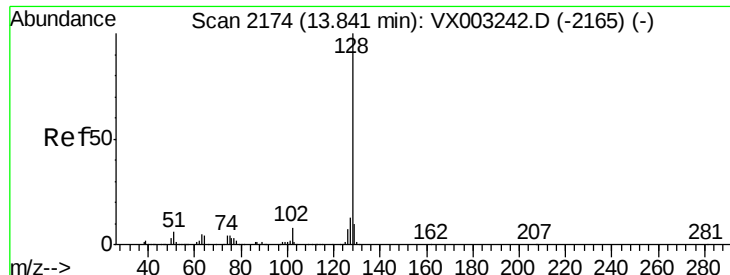
120 44.5 22.3 66.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 1.09 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. -0.00 min

Lab File: VX003307.D

Acq: 11 Jul 2018 02:23

Instrument :

MSVOA_X

ClientSampleId :

B2

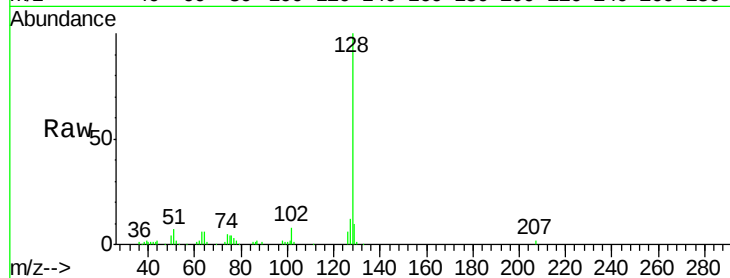
Tot Ion:128 Resp: 16853

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

129 10.4 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

