

Data File : VX001994.D

Acq On : 25 May 2018 23:43

Operator : JC/MD

Sample : PB109661ZHE#02

Misc : 5.0mL/MSVOA_X/WATER

ALS Vial : 31 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
PB109661ZHE#02

Quant Time: May 26 00:51:08 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M

Quant Title : SW846 8260

QLast Update : Thu May 24 13:09:03 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	309769	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	471951	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	430759	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	233730	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	290066	52.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.78%	
35) Dibromofluoromethane	5.51	113	224112	47.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.98%	
50) Toluene-d8	8.72	98	817128	47.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.64%	
62) 4-Bromofluorobenzene	11.14	95	300860	45.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.00%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	494	Below Cal	#	41
5) Bromomethane	1.65	94	978	Below Cal		90
10) Methyl Iodide	2.52	142	3920	0.75	ug/l #	87
11) Tert butyl alcohol	3.03	59	2445	2.25	ug/l #	82
13) Acrolein	2.29	56	421	0.90	ug/l #	57
15) Acrylonitrile	3.15	53	1218	0.54	ug/l #	71
16) Acetone	2.45	43	14132	6.61	ug/l	99
17) Carbon Disulfide	2.57	76	2845	0.27	ug/l	96
18) Methyl Acetate	2.79	43	27816	4.37	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	368	Below Cal	#	76
25) 2-Butanone	4.71	43	3118	0.80	ug/l	98
28) Bromochloromethane	5.04	49	186	Below Cal	#	14
29) Tetrahydrofuran	5.18	42	2077	0.82	ug/l #	89
38) Carbon Tetrachloride	5.67	117	28063	3.67	ug/l #	15
41) Methacrylonitrile	5.06	41	217	Below Cal	#	26
74) N-amyl acetate	6.46	43	401	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.26	83	143	Below Cal	#	80
76) 1,2,3-Trichloropropane	11.14	75	157042	27.97	ug/l #	33
79) 2-Chlorotoluene	11.43	91	995	Below Cal		89
81) trans-1,4-Dichloro-2-buten	11.14	75	157042	67.23	ug/l #	10

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

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Misc : 5.0mL/MSVOA_X/WATER

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Instrument :

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ClientSampleId :

PB109661ZHE#02

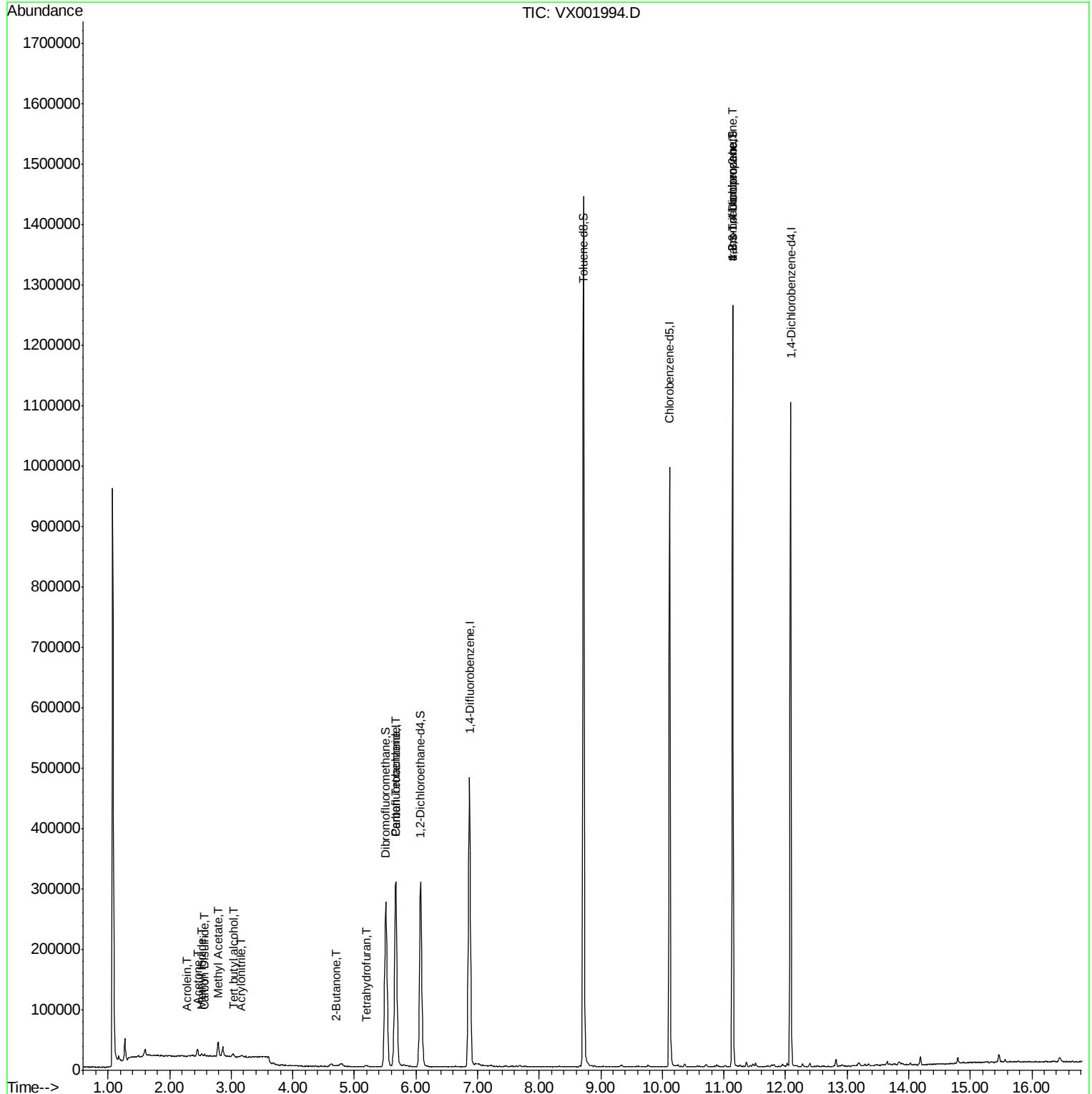
Quant Time: May 26 00:51:08 2018

Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M

Quant Title : SW846 8260

QLast Update : Thu May 24 13:09:03 2018

Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX001994.D

Acq: 25 May 2018 23:43

Instrument :

MSVOA_X

ClientSampleId :

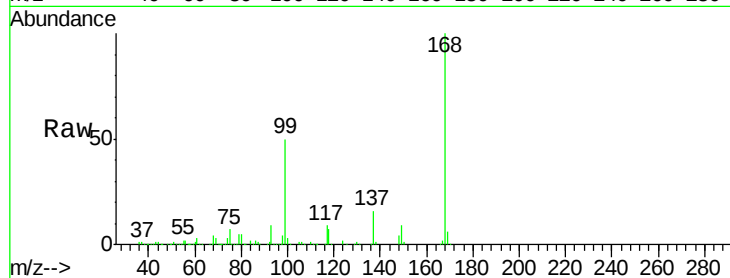
PB109661ZHE#02

Tgt Ion:168 Resp: 309769

Ion Ratio Lower Upper

168 100

99 50.1 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

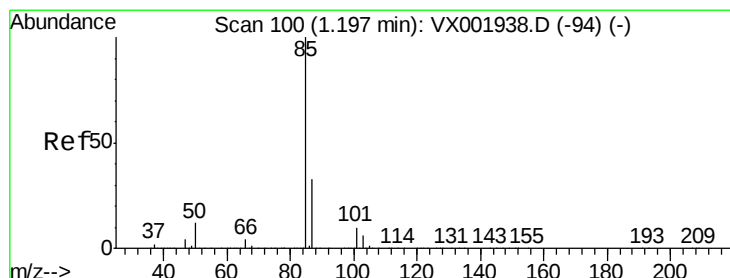
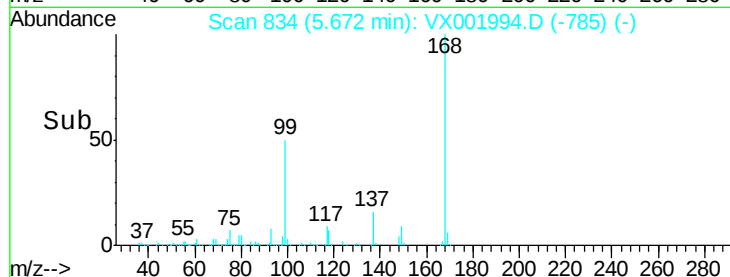
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX001994.D

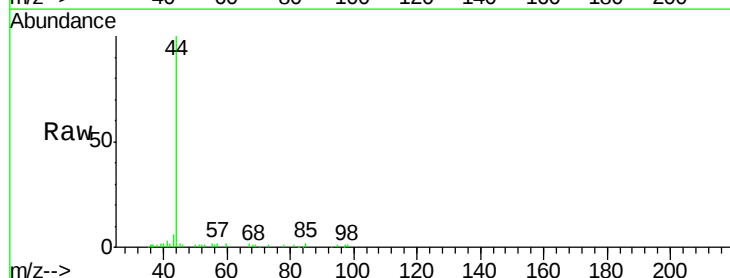
Acq: 25 May 2018 23:43

Tgt Ion: 85 Resp: 494

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

300

250

200

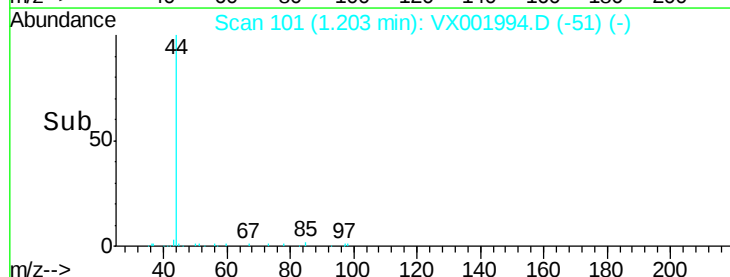
150

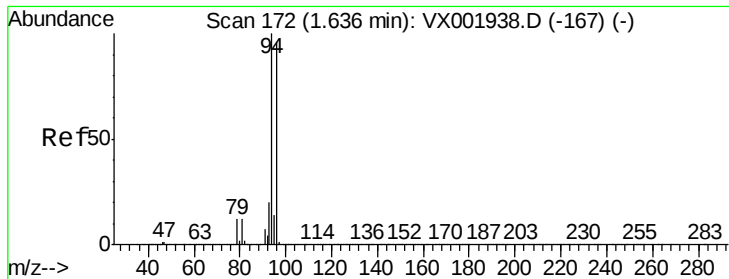
100

50

0

Time--> 1.15 1.20 1.25





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX001994.D

Acq: 25 May 2018 23:43

Instrument :

MSVOA_X

ClientSampleId :

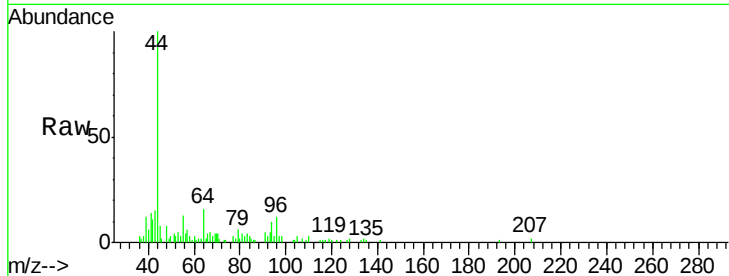
PB109661ZHE#02

Tgt Ion: 94 Resp: 978

Ion Ratio Lower Upper

94 100

96 104.7 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

800

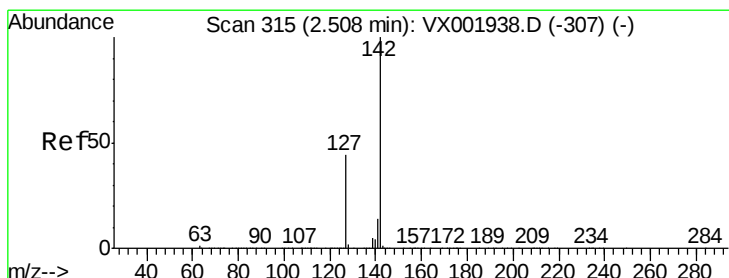
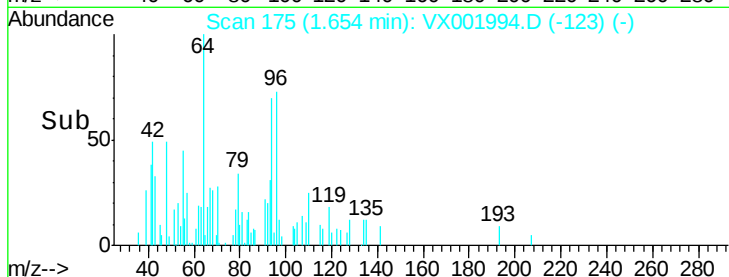
600

400

200

0

Time-->



#10

Methyl Iodide

Concen: 0.75 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX001994.D

Acq: 25 May 2018 23:43

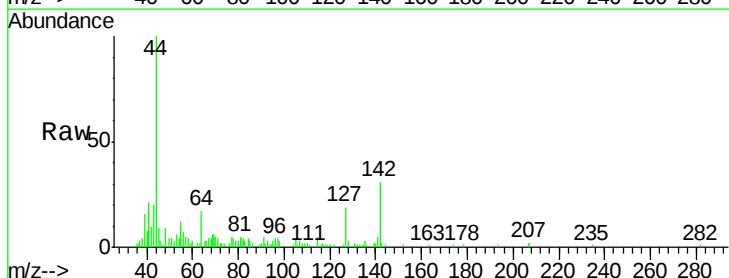
Tgt Ion: 142 Resp: 3920

Ion Ratio Lower Upper

142 100

127 52.9 35.5 53.3

141 19.0 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

2.52

2000

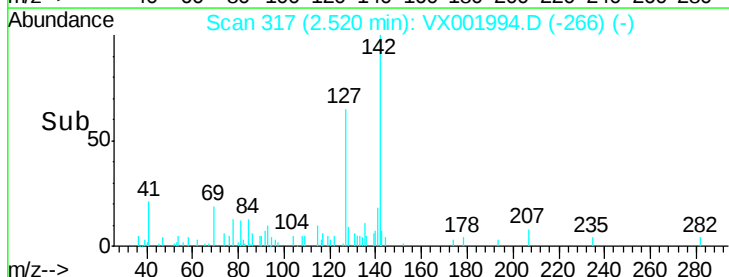
1500

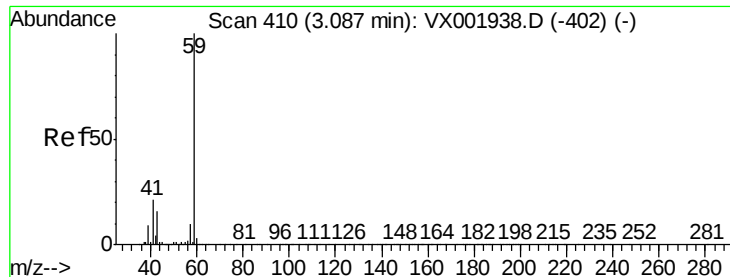
1000

500

0

Time-->



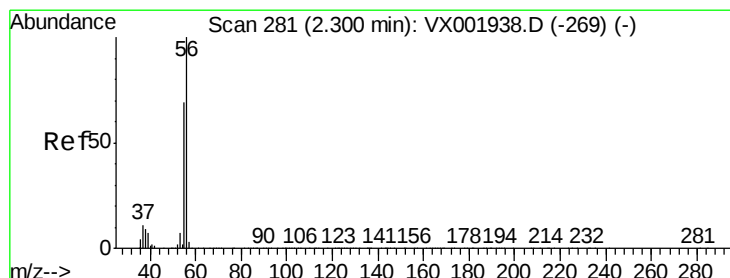
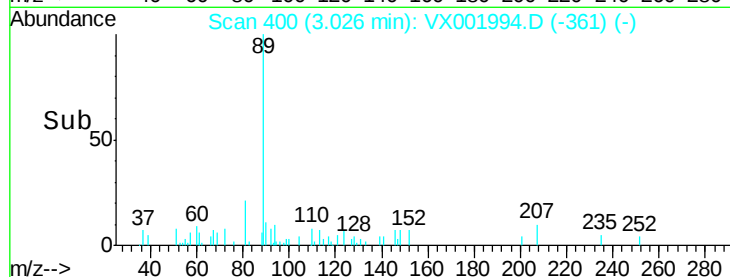
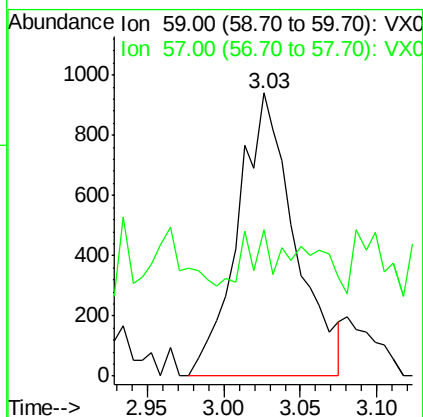
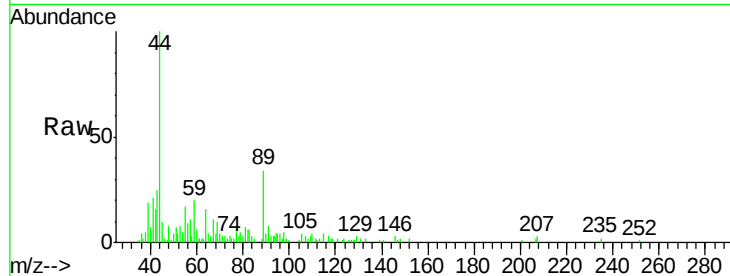


#11

Tert butyl alcohol
 Concen: 2.25 ug/l
 RT: 3.03 min Scan# 400
 Delta R.T. -0.06 min
 Lab File: VX001994.D
 Acq: 25 May 2018 23:43

Instrument :
 MSVOA_X
 ClientSampleId :
 PB109661ZHE#02

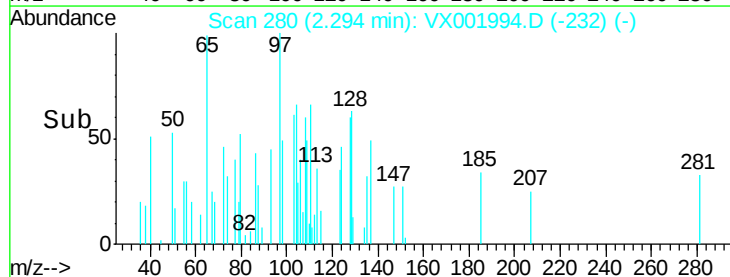
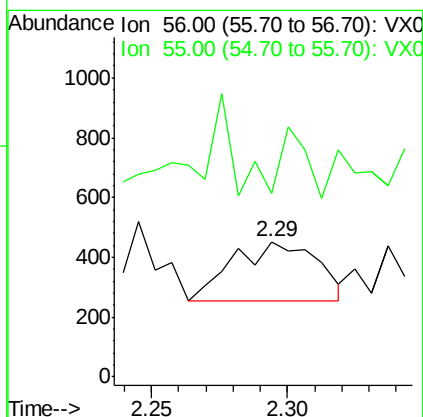
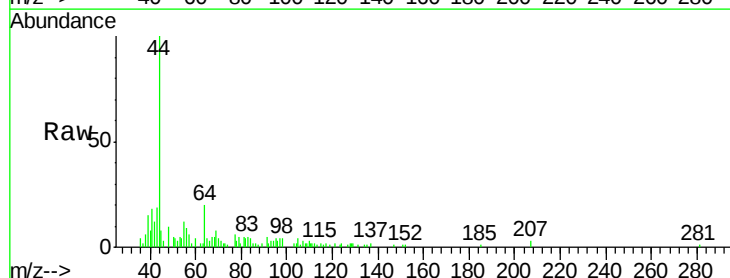
Tgt Ion: 59 Resp: 2445
 Ion Ratio Lower Upper
 59 100
 57 4.2 8.9 13.3#

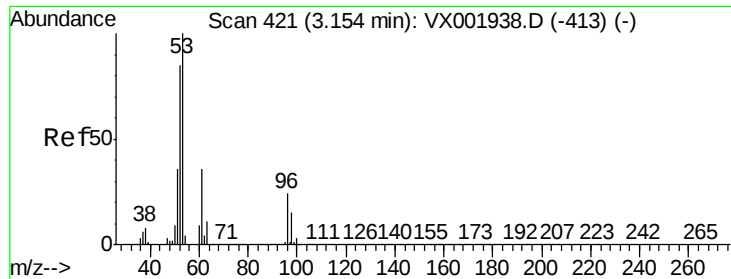


#13

Acrolein
 Concen: 0.90 ug/l
 RT: 2.29 min Scan# 280
 Delta R.T. -0.01 min
 Lab File: VX001994.D
 Acq: 25 May 2018 23:43

Tgt Ion: 56 Resp: 421
 Ion Ratio Lower Upper
 56 100
 55 35.2 56.8 85.2#





#15

Acrylonitrile

Concen: 0.54 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX001994.D

Acq: 25 May 2018 23:43

Instrument :

MSVOA_X

ClientSampleId :

PB109661ZHE#02

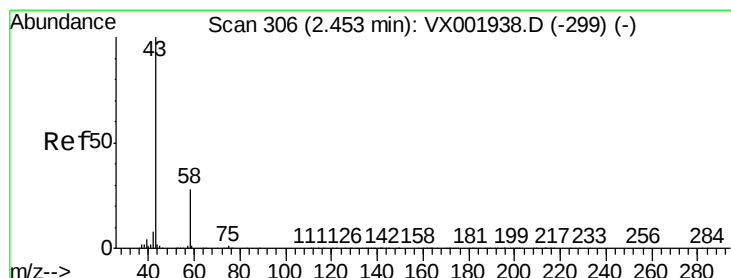
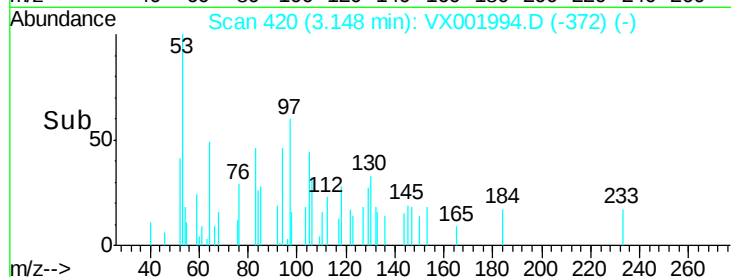
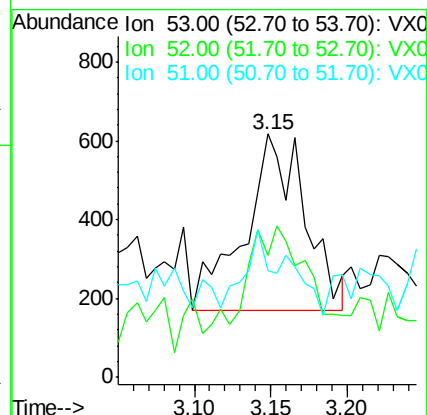
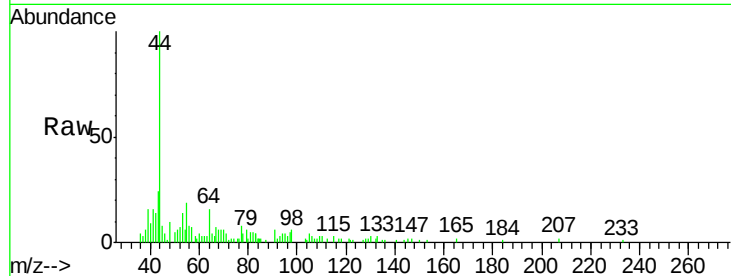
Tgt Ion: 53 Resp: 1218

Ion Ratio Lower Upper

53 100

52 58.3 66.4 99.6#

51 18.0 29.3 43.9#



#16

Acetone

Concen: 6.61 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX001994.D

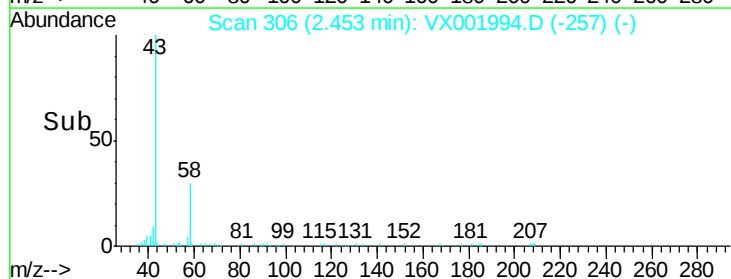
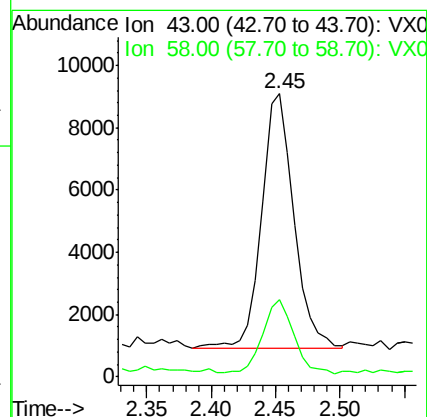
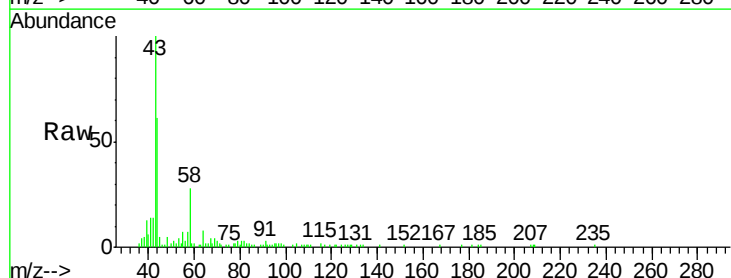
Acq: 25 May 2018 23:43

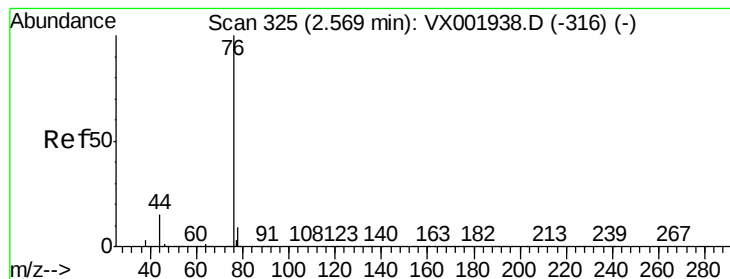
Tgt Ion: 43 Resp: 14132

Ion Ratio Lower Upper

43 100

58 28.3 22.3 33.5





#17

Carbon Disulfide

Concen: 0.27 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX001994.D

Acq: 25 May 2018 23:43

Instrument :

MSVOA_X

ClientSampleId :

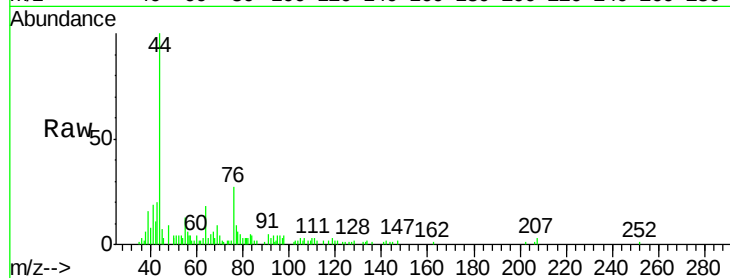
PB109661ZHE#02

Tgt Ion: 76 Resp: 2845

Ion Ratio Lower Upper

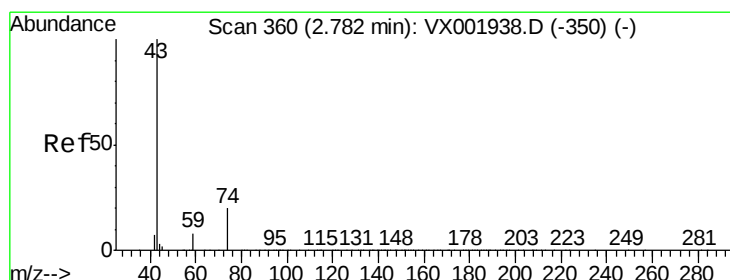
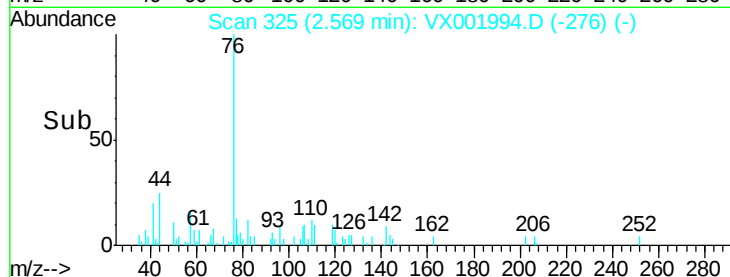
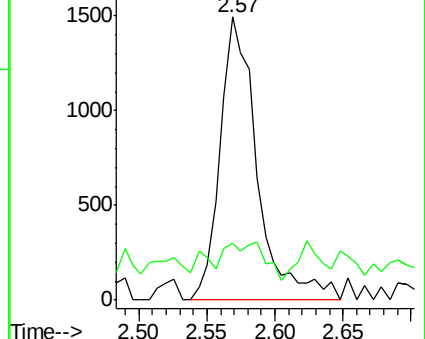
76 100

78 10.6 7.4 11.2



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 4.37 ug/l

RT: 2.79 min Scan# 361

Delta R.T. 0.01 min

Lab File: VX001994.D

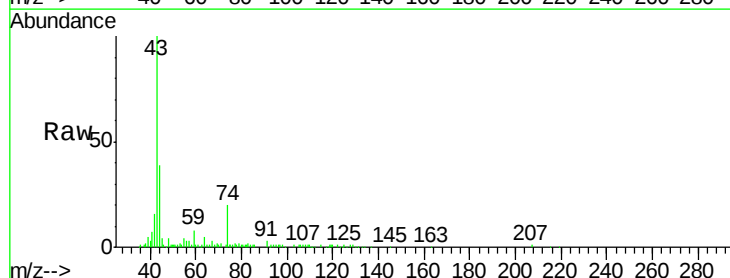
Acq: 25 May 2018 23:43

Tgt Ion: 43 Resp: 27816

Ion Ratio Lower Upper

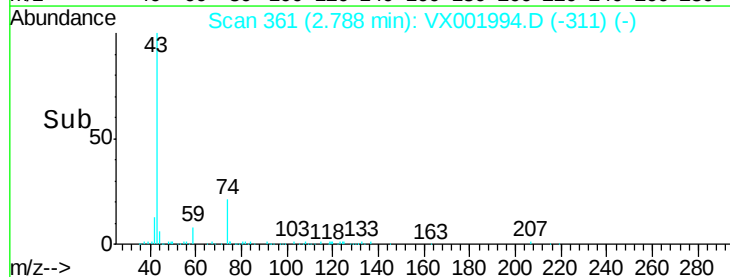
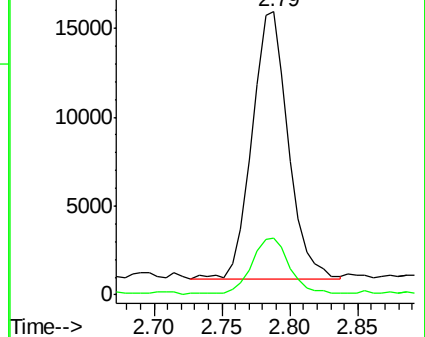
43 100

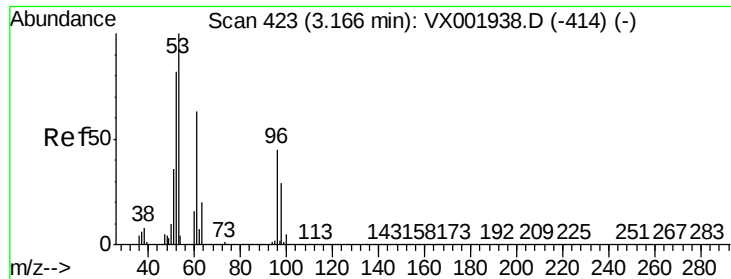
74 22.0 16.8 25.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.17 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX001994.D

Acq: 25 May 2018 23:43

Instrument :

MSVOA_X

ClientSampleId :

PB109661ZHE#02

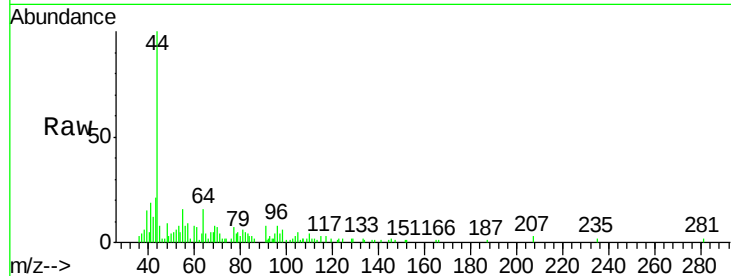
Tgt Ion: 96 Resp: 368

Ion Ratio Lower Upper

96 100

61 136.2 113.3 169.9

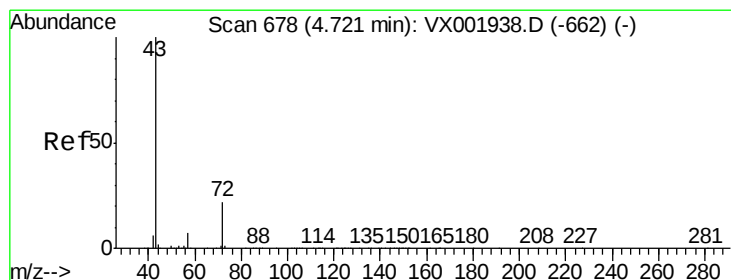
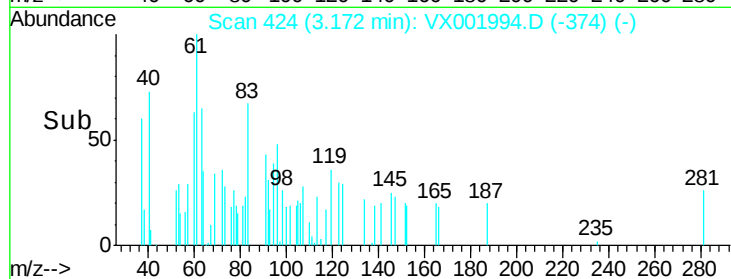
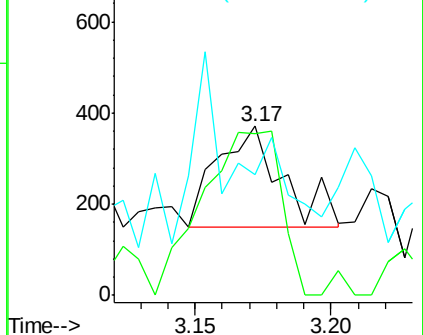
98 13.1 51.7 77.5#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#25

2-Butanone

Concen: 0.80 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.01 min

Lab File: VX001994.D

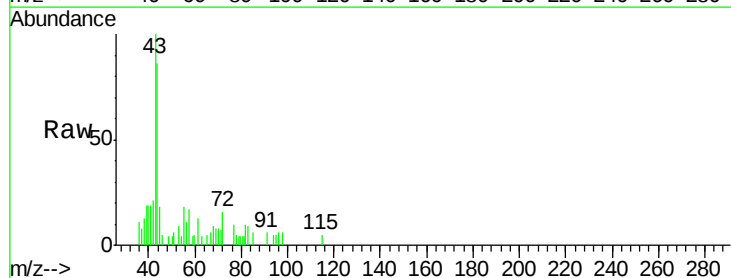
Acq: 25 May 2018 23:43

Tgt Ion: 43 Resp: 3118

Ion Ratio Lower Upper

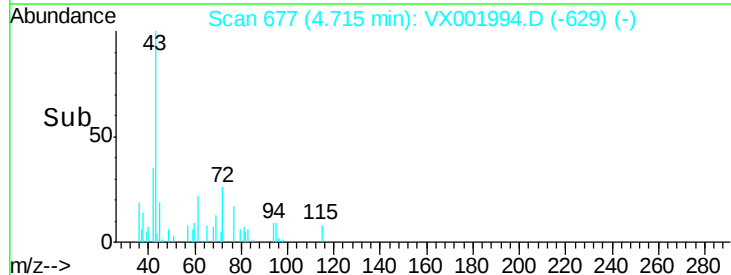
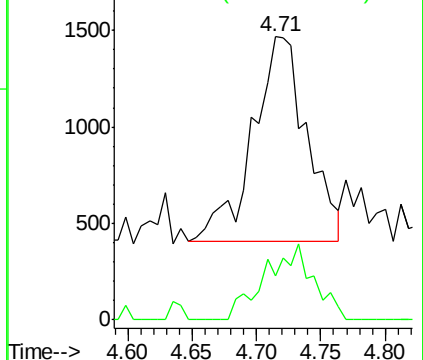
43 100

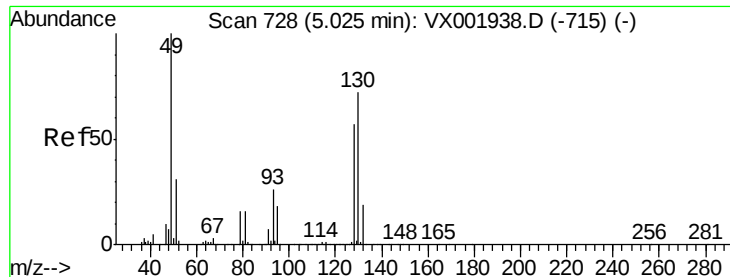
72 21.4 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 730

Delta R.T. 0.01 min

Lab File: VX001994.D

Acq: 25 May 2018 23:43

Instrument :

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ClientSampleId :

PB109661ZHE#02

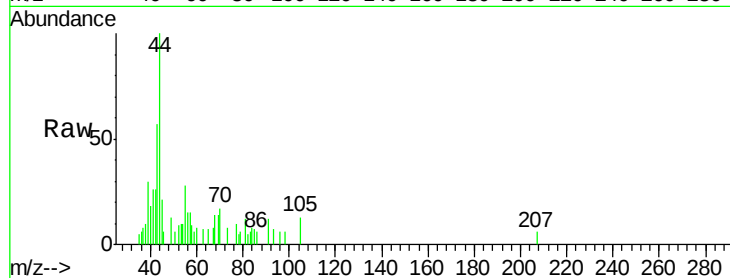
Tgt Ion: 49 Resp: 186

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 59.4 89.2#

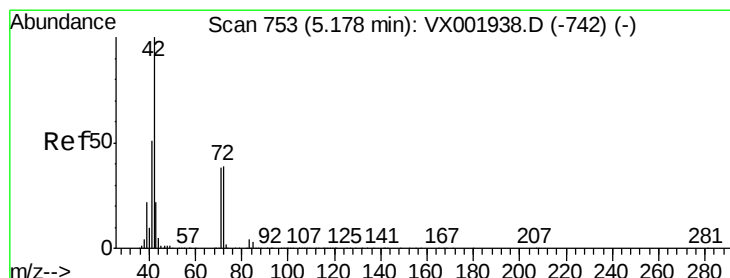
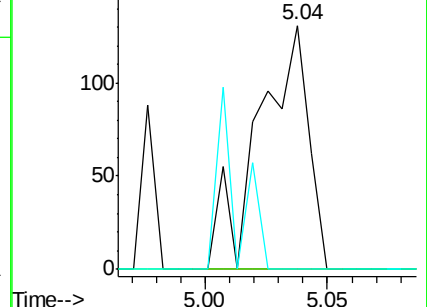
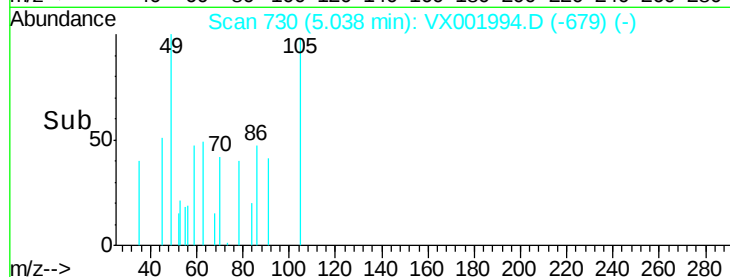


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

Time-->



#29

Tetrahydrofuran

Concen: 0.82 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX001994.D

Acq: 25 May 2018 23:43

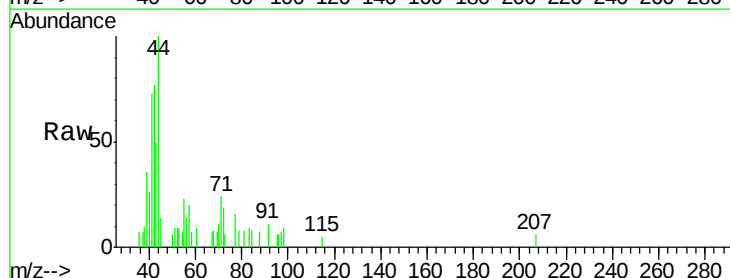
Tgt Ion: 42 Resp: 2077

Ion Ratio Lower Upper

42 100

72 42.9 31.4 47.0

71 26.8 29.5 44.3#

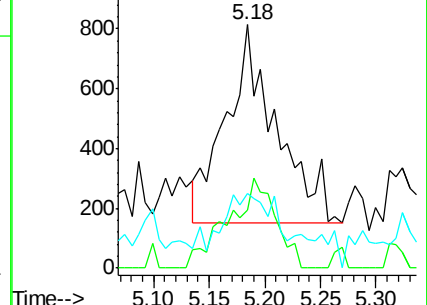
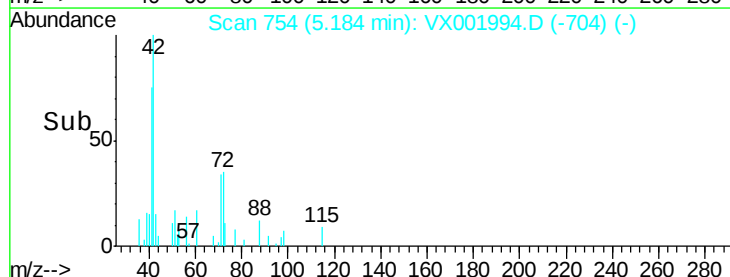


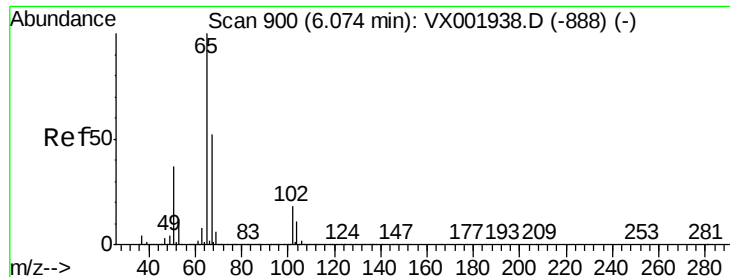
Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

Time-->

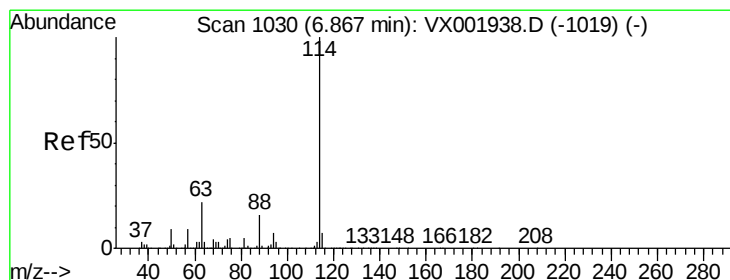
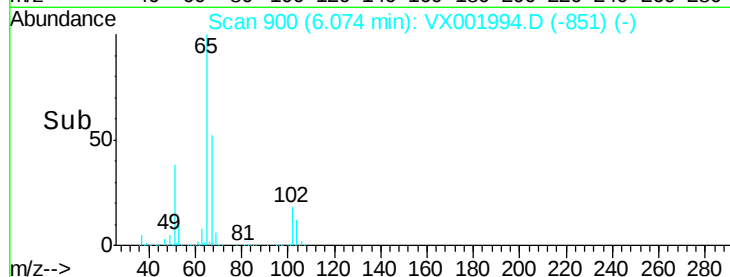
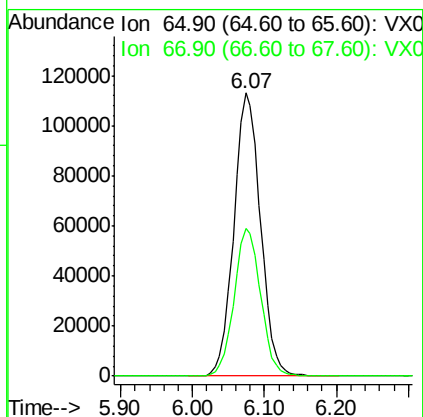
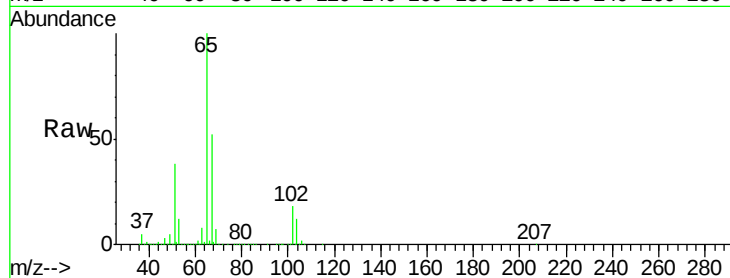




#33
 1,2-Dichloroethane-d4
 Concen: 52.39 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX001994.D
 Acq: 25 May 2018 23:43

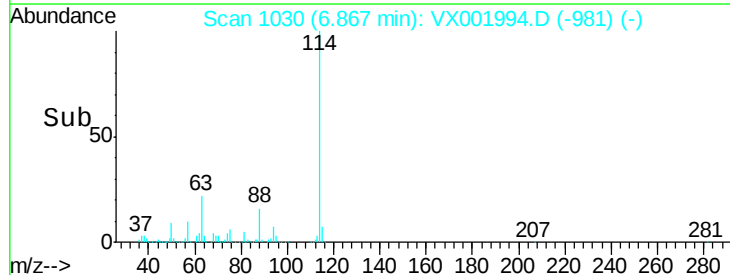
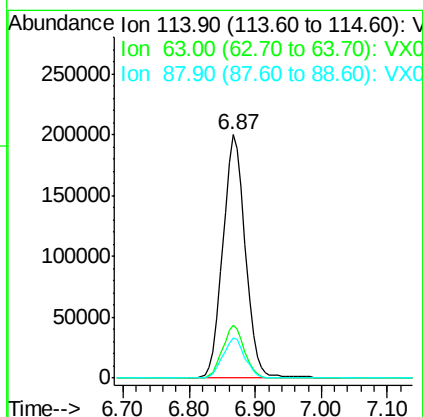
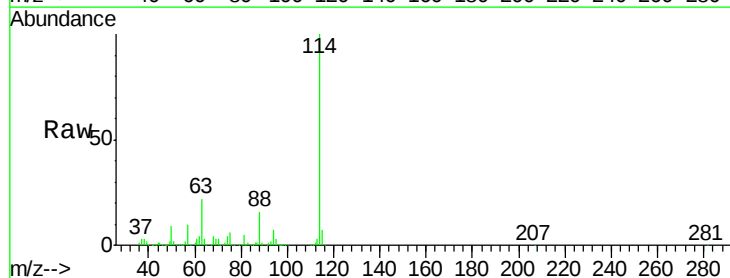
Instrument :
 MSVOA_X
 ClientSampleId :
 PB109661ZHE#02

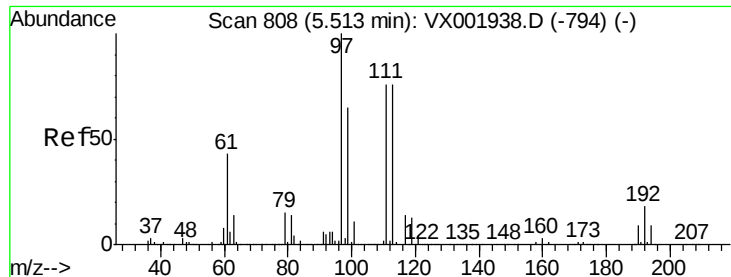
Tgt Ion: 65 Resp: 290066
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX001994.D
 Acq: 25 May 2018 23:43

Tgt Ion: 114 Resp: 471951
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 43.2
 88 16.3 0.0 31.6





#35

Dibromofluoromethane

Concen: 47.49 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX001994.D

Acq: 25 May 2018 23:43

Instrument :

MSVOA_X

ClientSampleId :

PB109661ZHE#02

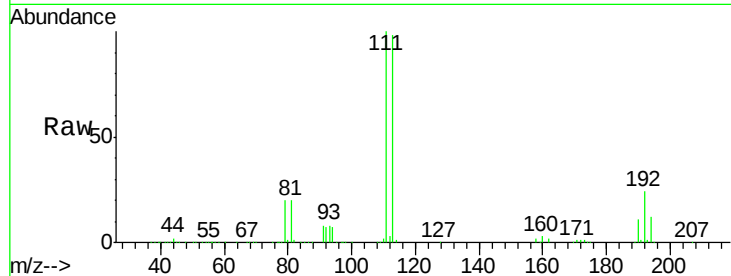
Tgt Ion:113 Resp: 224112

Ion Ratio Lower Upper

113 100

111 102.2 82.0 123.0

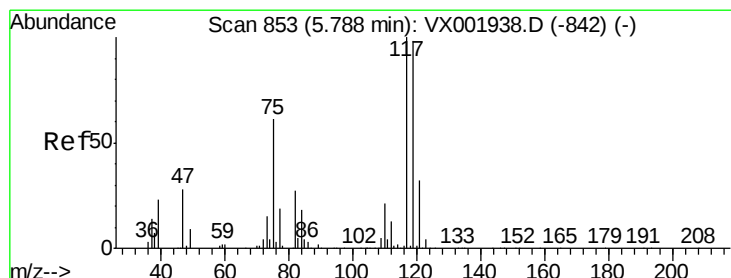
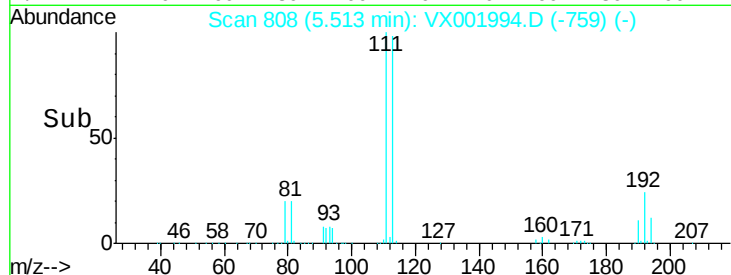
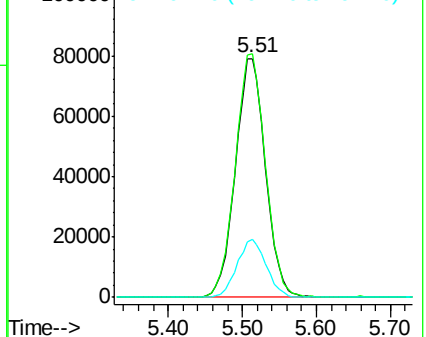
192 23.6 18.9 28.3



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



#38

Carbon Tetrachloride

Concen: 3.67 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX001994.D

Acq: 25 May 2018 23:43

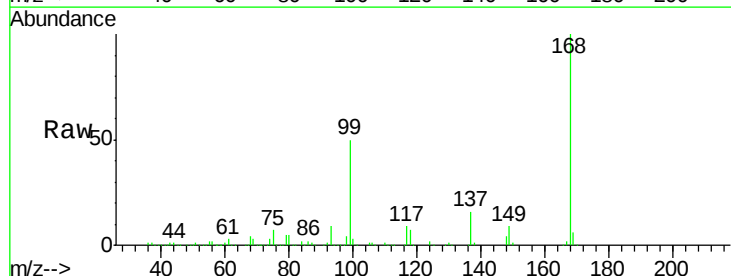
Tgt Ion:117 Resp: 28063

Ion Ratio Lower Upper

117 100

119 4.5 78.5 117.7#

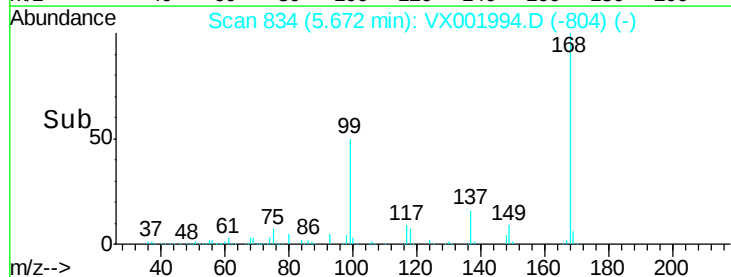
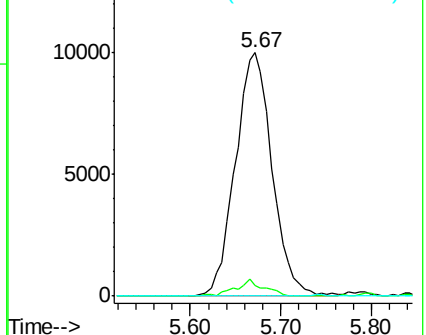
121 0.0 25.5 38.3#

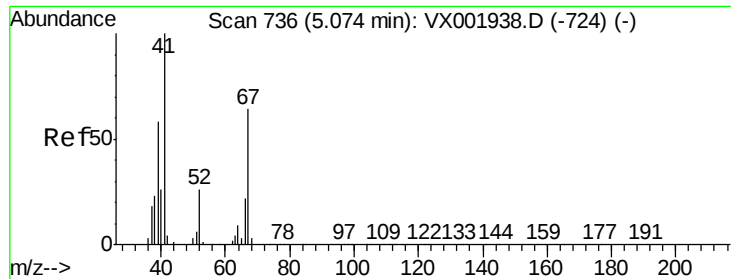


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

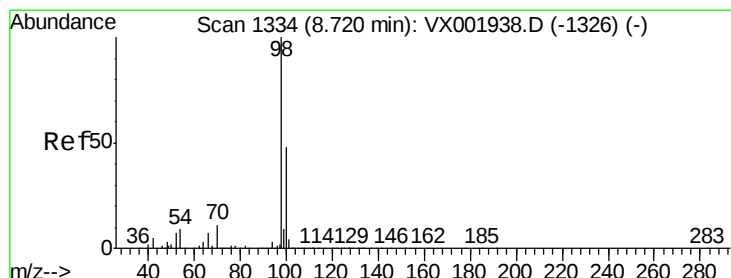
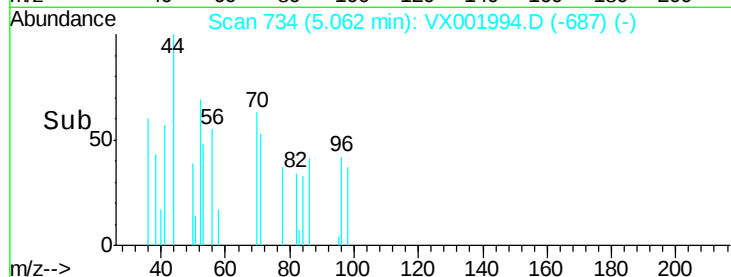
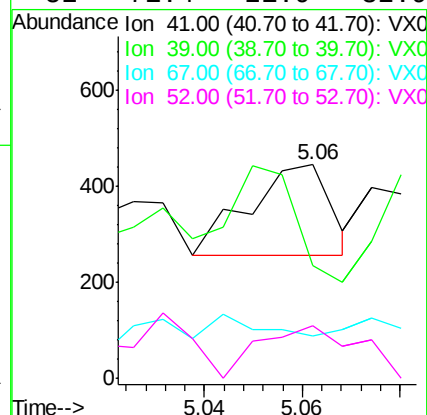
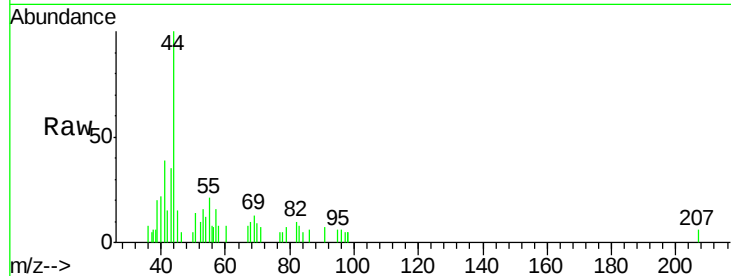




#41
Methacrylonitrile
Concen: Below Cal
RT: 5.06 min Scan# 734
Delta R.T. -0.01 min
Lab File: VX001994.D
Acq: 25 May 2018 23:43

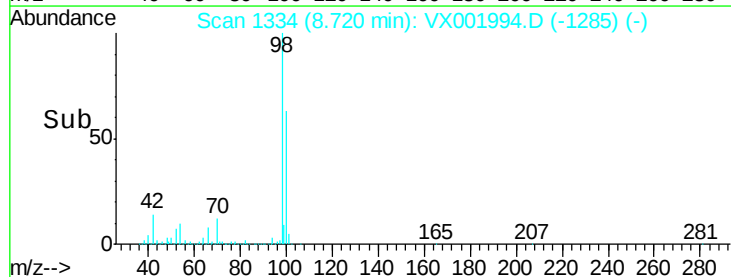
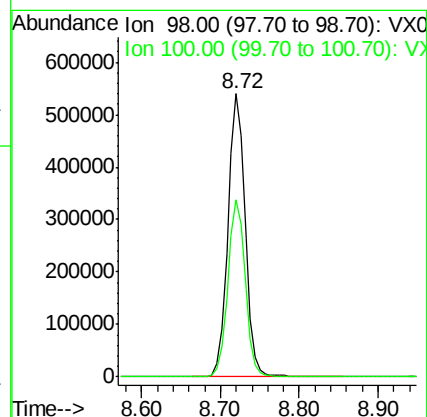
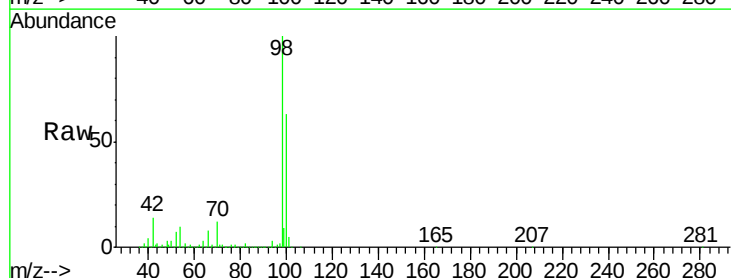
Instrument :
MSVOA_X
ClientSampleId :
PB109661ZHE#02

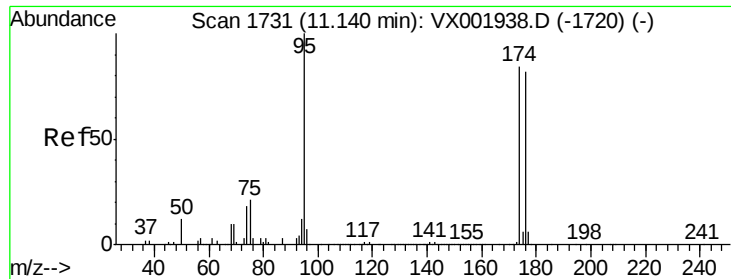
Tgt Ion: 41 Resp: 217
Ion Ratio Lower Upper
41 100
39 103.2 46.0 69.0#
67 0.0 50.6 75.8#
52 71.4 21.9 32.9#



#50
Toluene-d8
Concen: 47.82 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX001994.D
Acq: 25 May 2018 23:43

Tgt Ion: 98 Resp: 817128
Ion Ratio Lower Upper
98 100
100 63.2 51.5 77.3





#62

4-Bromofluorobenzene

Concen: 45.00 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001994.D

Acq: 25 May 2018 23:43

Instrument :

MSVOA_X

ClientSampleId :

PB109661ZHE#02

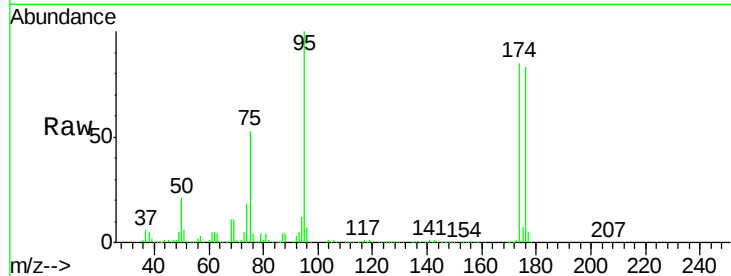
Tgt Ion: 95 Resp: 300860

Ion Ratio Lower Upper

95 100

174 90.2 0.0 178.8

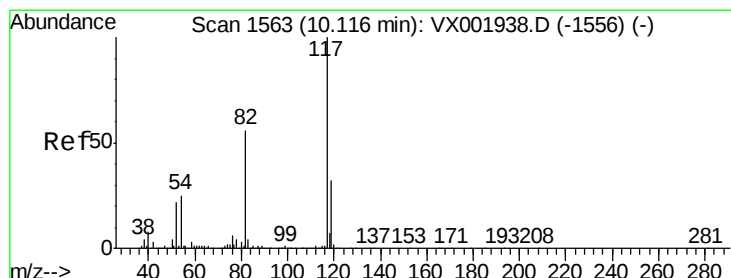
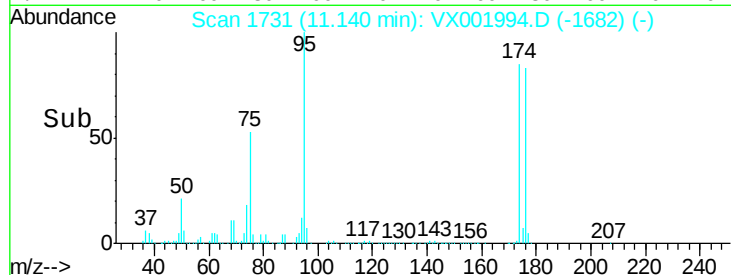
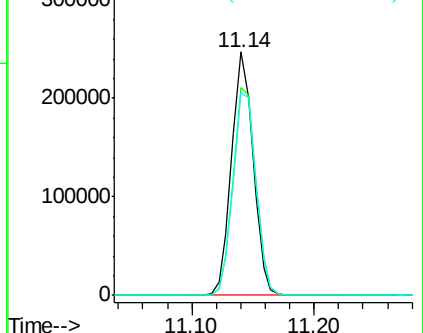
176 88.2 0.0 175.6



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: VX001994.D

Acq: 25 May 2018 23:43

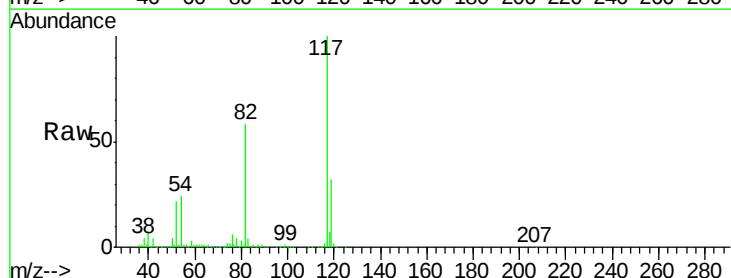
Tgt Ion: 117 Resp: 430759

Ion Ratio Lower Upper

117 100

82 57.6 44.8 67.2

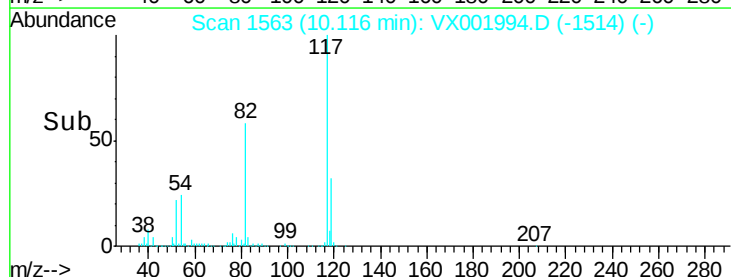
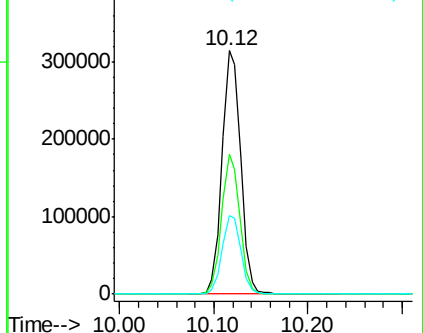
119 32.5 25.5 38.3

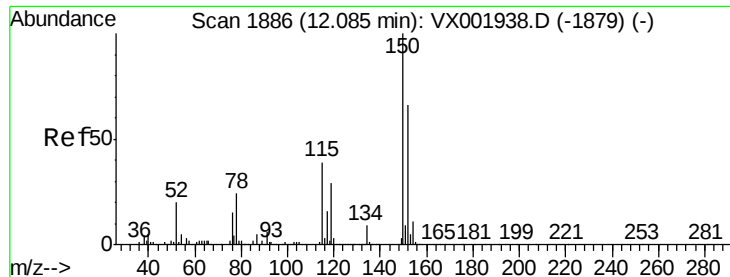


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX001994.D

Acq: 25 May 2018 23:43

Instrument :

MSVOA_X

ClientSampleId :

PB109661ZHE#02

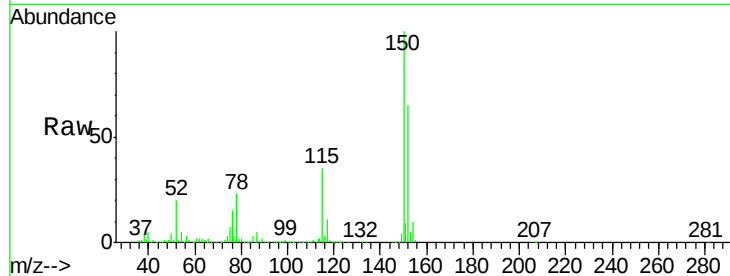
Tgt Ion: 152 Resp: 233730

Ion Ratio Lower Upper

152 100

115 56.0 42.3 126.8

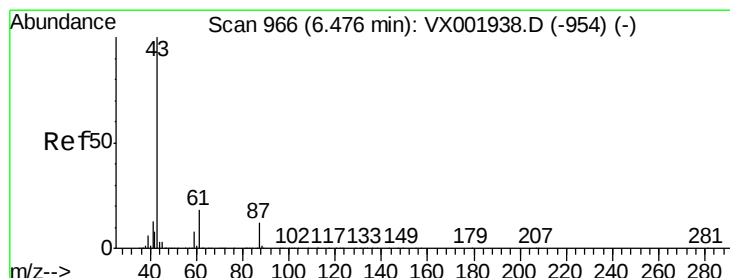
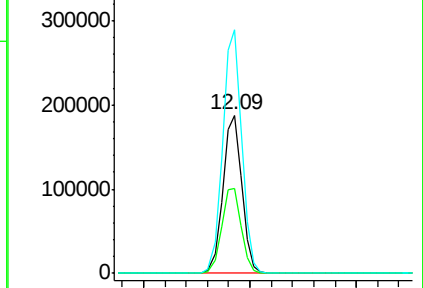
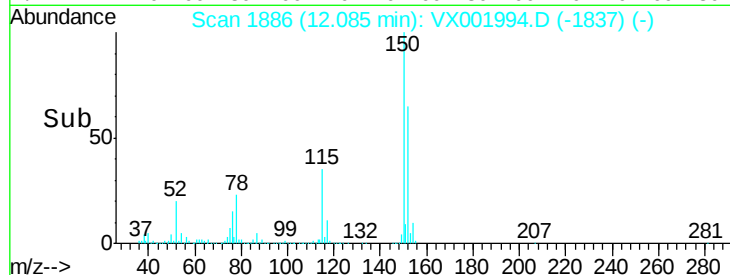
150 154.8 0.0 351.0



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 6.46 min Scan# 964

Delta R.T. -0.01 min

Lab File: VX001994.D

Acq: 25 May 2018 23:43

Tgt Ion: 43 Resp: 401

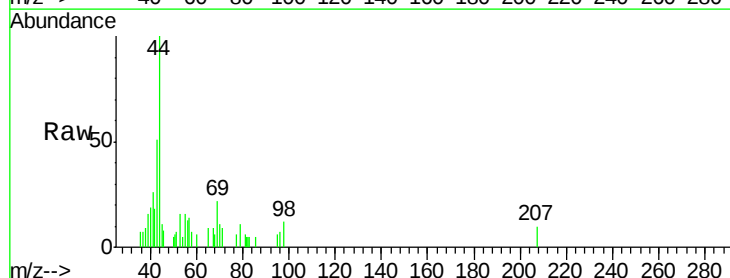
Ion Ratio Lower Upper

43 100

70 35.7 0.1 0.1#

55 9.2 0.1 0.1#

61 0.0 14.5 21.7#

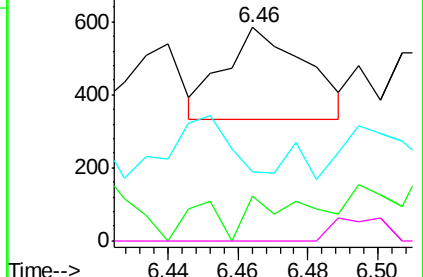
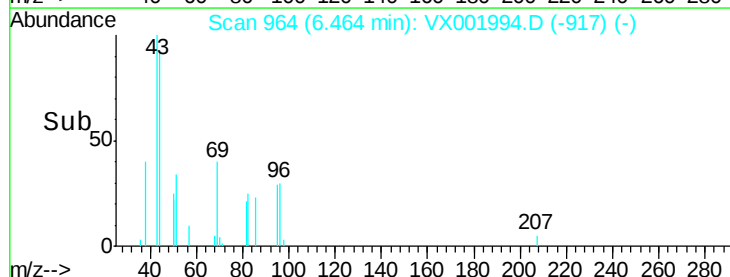


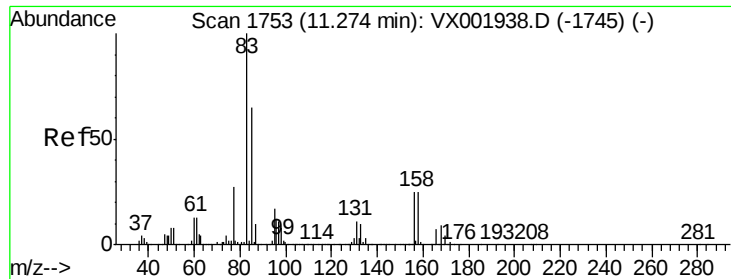
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.26 min Scan# 1751

Delta R.T. -0.01 min

Lab File: VX001994.D

Acq: 25 May 2018 23:43

Instrument :

MSVOA_X

ClientSampleId :

PB109661ZHE#02

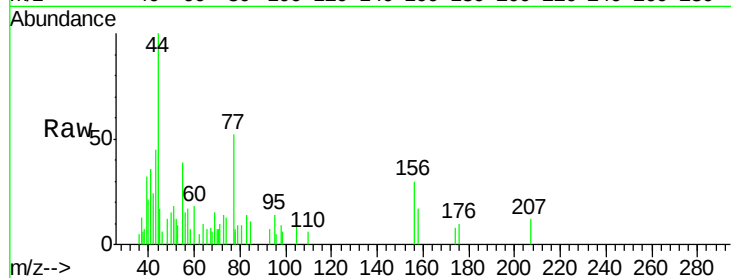
Tgt Ion: 83 Resp: 143

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

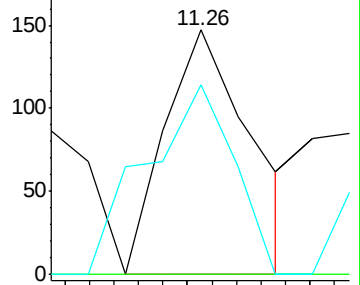
85 79.7 32.6 97.7



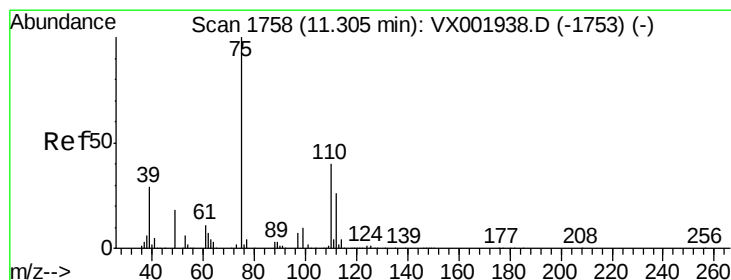
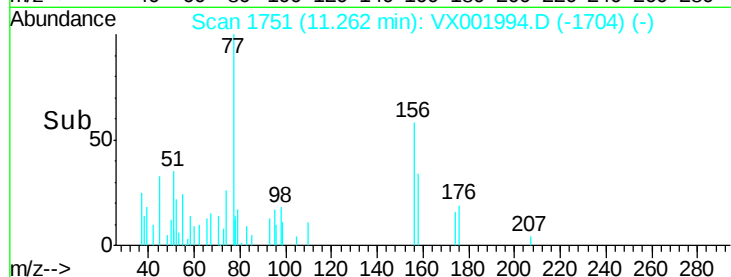
Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



Time-->



#76

1,2,3-Trichloropropane

Concen: 27.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001994.D

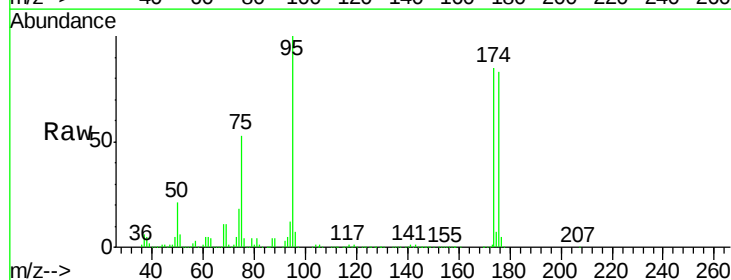
Acq: 25 May 2018 23:43

Tgt Ion: 75 Resp: 157042

Ion Ratio Lower Upper

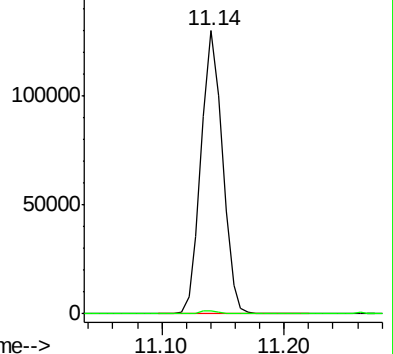
75 100

77 1.2 22.8 68.3#

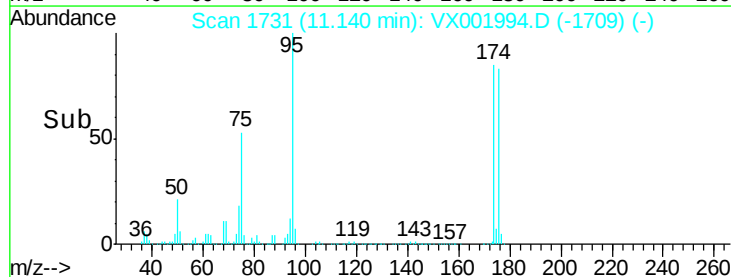


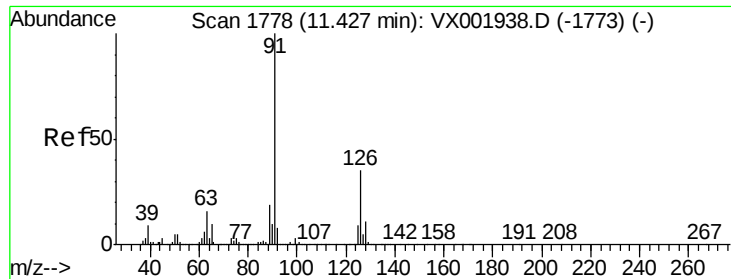
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->

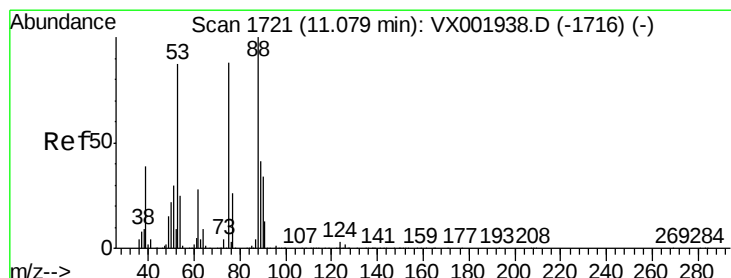
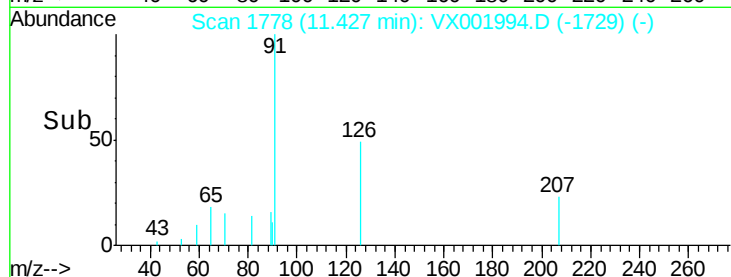
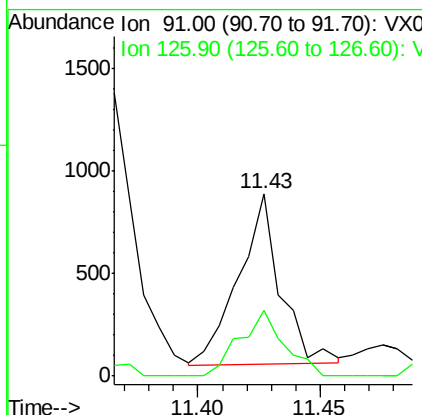
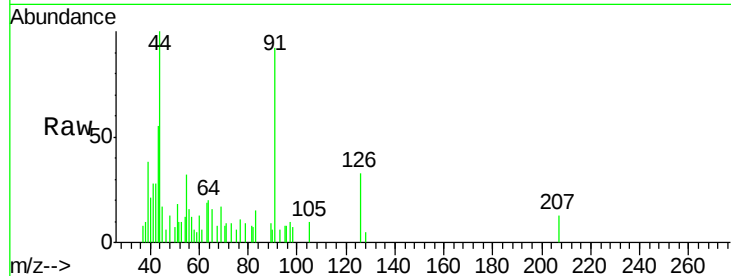




#79
2-Chlorotoluene
Concen: Below Cal
RT: 11.43 min Scan# 1778
Delta R.T. 0.00 min
Lab File: VX001994.D
Acq: 25 May 2018 23:43

Instrument :
MSVOA_X
ClientSampleId :
PB109661ZHE#02

Tgt Ion: 91 Resp: 995
Ion Ratio Lower Upper
91 100
126 41.1 17.4 52.2



#81
trans-1,4-Dichloro-2-butene
Concen: 67.23 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX001994.D
Acq: 25 May 2018 23:43

Tgt Ion: 75 Resp: 157042
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 39.4 59.2#

