

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021219\
 Data File : VX007491.D
 Acq On : 12 Feb 2019 16:23
 Operator : JC/SP
 Sample : PB117025TB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117025TB

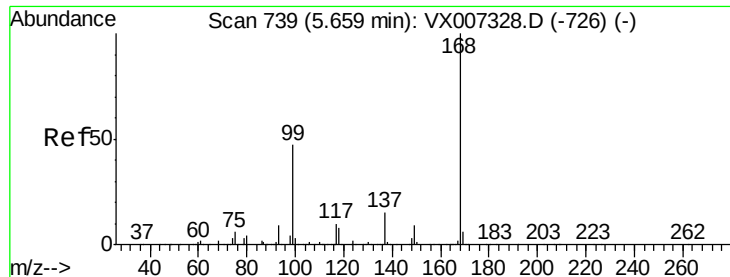
Quant Time: Feb 13 00:12:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	496905	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	779063	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	760022	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	354417	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	270203	51.23	ug/l	0.00
Spiked Amount			Recovery	=	102.46%	
35) Dibromofluoromethane	5.50	113	251549	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
50) Toluene-d8	8.71	98	961129	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
62) 4-Bromofluorobenzene	11.13	95	339260	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	284	0.224	ug/l	79
5) Bromomethane	1.65	94	1194	Below Cal	#	42
6) Chloroethane	1.72	64	1232	0.347	ug/l #	43
11) Tert butyl alcohol	3.02	59	6257	5.732	ug/l	99
13) Acrolein	2.30	56	226	0.442	ug/l #	14
15) Acrylonitrile	3.16	53	794	0.294	ug/l #	80
16) Acetone	2.45	43	37138	15.372	ug/l	99
17) Carbon Disulfide	2.57	76	2182	2.289	ug/l #	75
18) Methyl Acetate	2.78	43	2866	1.043	ug/l #	57
20) Methylene Chloride	2.86	84	12794	2.217	ug/l	94
25) 2-Butanone	4.70	43	6512	1.894	ug/l #	86
36) 1,1-Dichloropropene	5.66	75	31492	4.505	ug/l #	49
38) Carbon Tetrachloride	5.67	117	44803	6.607	ug/l #	17
43) Isopropyl Acetate	6.46	43	30861	2.830	ug/l	98
48) Methyl methacrylate	7.68	41	16827	3.084	ug/l #	12
49) 1,4-Dioxane	7.77	88	199	8.472	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	159230	22.177	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	79821	10.634	ug/l #	60
57) 1,3-Dichloropropane	9.54	76	16805	1.908	ug/l #	45
59) 2-Hexanone	9.54	43	226816	40.596	ug/l #	52
71) Bromoform	10.86	173	119	4.052	ug/l #	29
74) N-amyl acetate	10.69	43	25412	2.728	ug/l #	55
76) 1,2,3-Trichloropropane	11.13	75	161531	23.431	ug/l #	33
80) 1,3,5-Trimethylbenzene	11.51	105	15178	0.770	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.13	75	161531	70.527	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	12.98	75	622	0.408	ug/l #	3

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

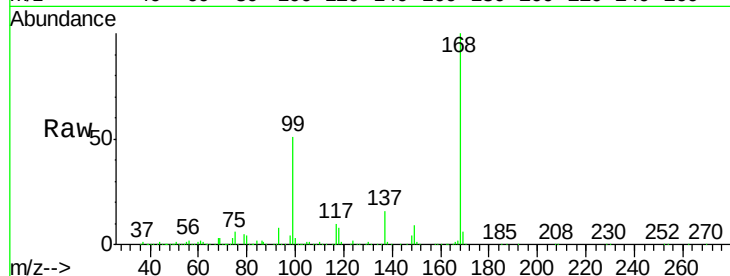
PB117025TB

Tot Ion:168 Resp: 496905

Ion Ratio Lower Upper

168 100

99 50.8 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

200000

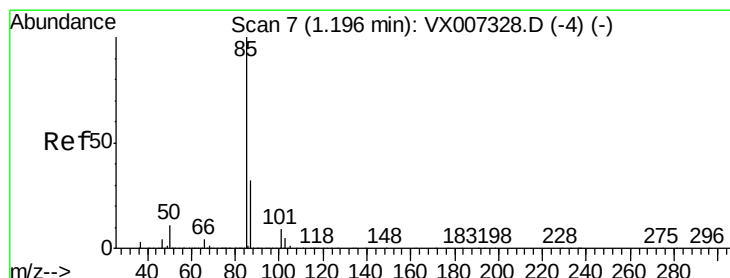
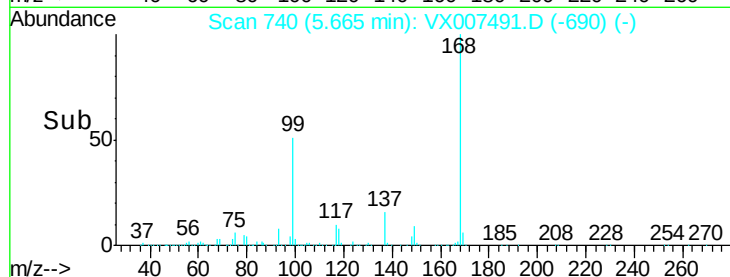
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.224 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX007491.D

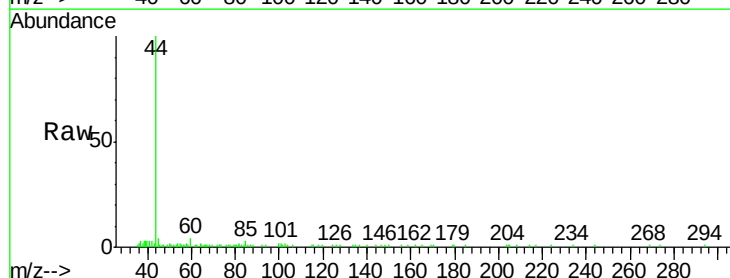
Acq: 12 Feb 2019 16:23

Tgt Ion: 85 Resp: 284

Ion Ratio Lower Upper

85 100

87 20.1 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

300

250

200

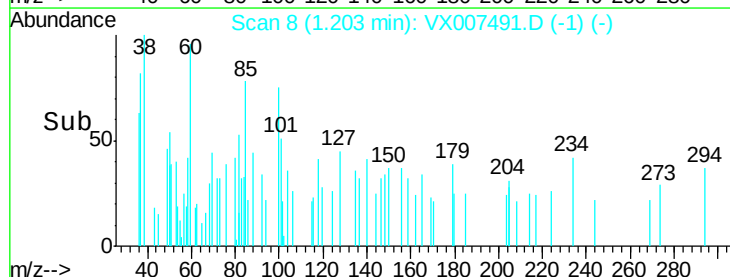
150

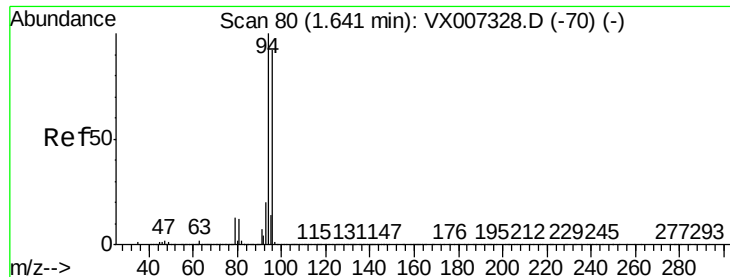
100

50

0

Time--> 1.16 1.18 1.20 1.22





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

Instrument :

MSVOA_X

ClientSampled :

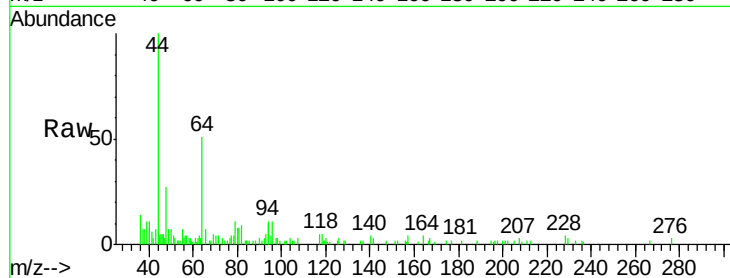
PB117025TB

Tot Ion: 94 Resp: 1194

Ion Ratio Lower Upper

94 100

96 36.5 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

800

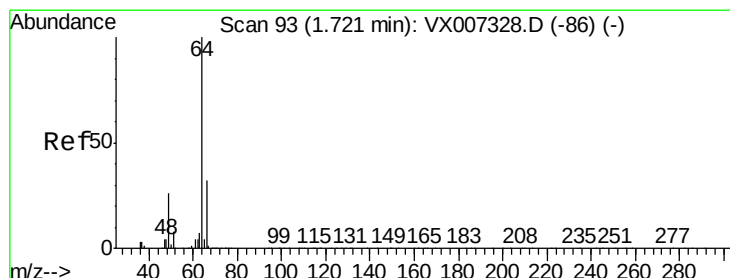
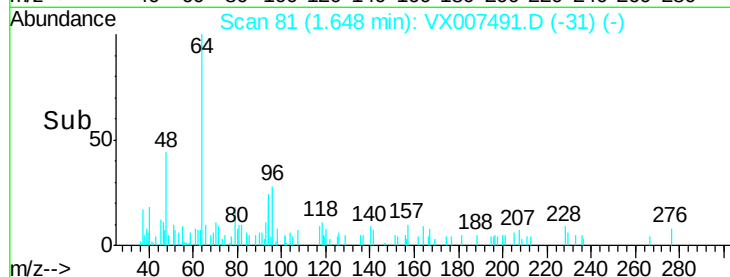
600

400

200

0

Time-->



#6

Chloroethane

Concen: 0.347 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.00 min

Lab File: VX007491.D

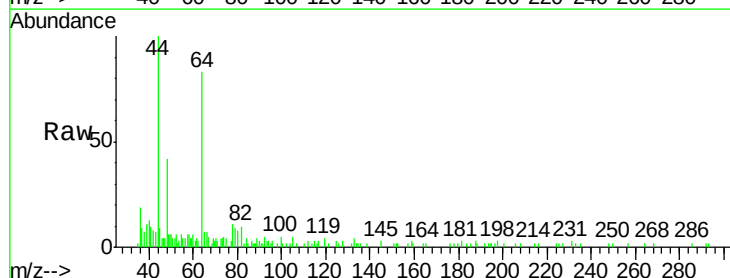
Acq: 12 Feb 2019 16:23

Tgt Ion: 64 Resp: 1232

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

1.72

3000

2500

2000

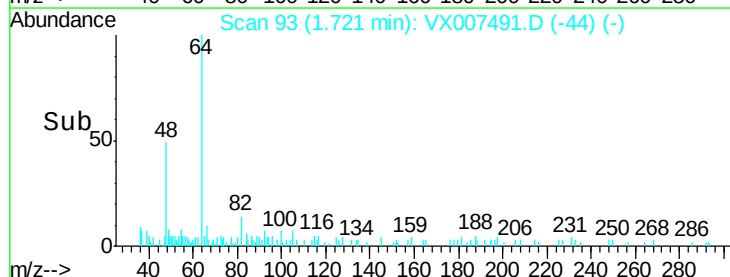
1500

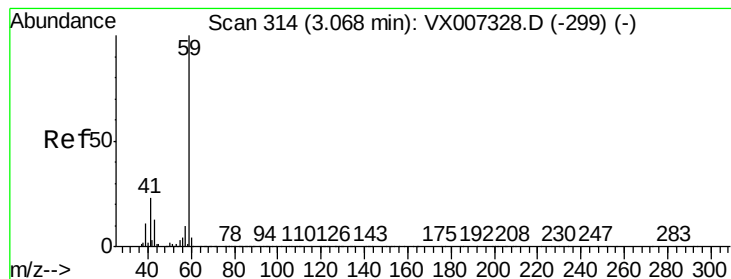
1000

500

0

Time-->



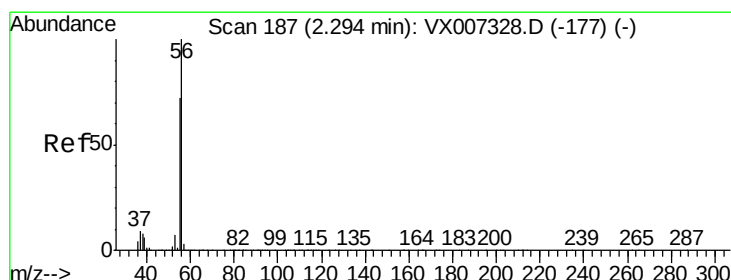
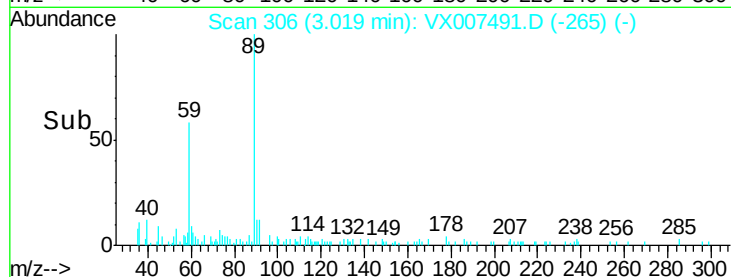
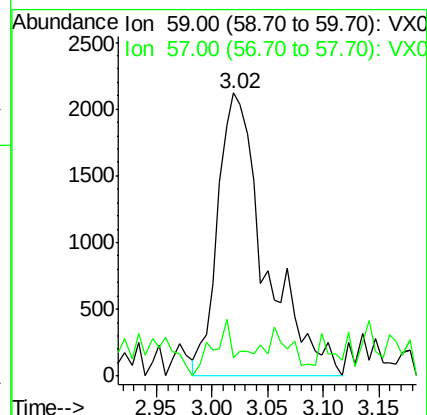
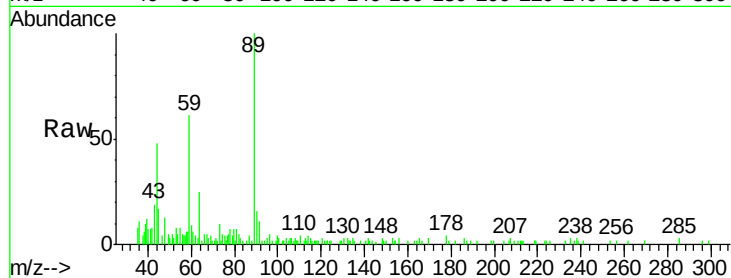


#11

Tert butyl alcohol
Concen: 5.732 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.05 min
Lab File: VX007491.D
Acq: 12 Feb 2019 16:23

Instrument :
MSVOA_X
ClientSampleId :
PB117025TB

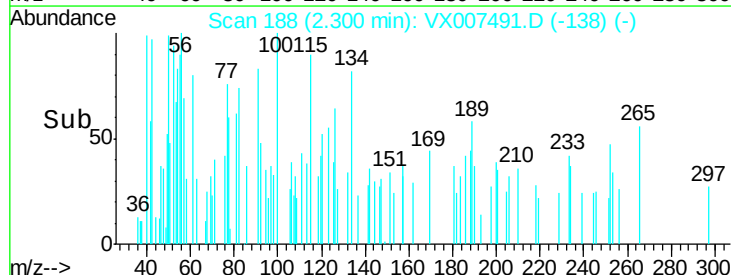
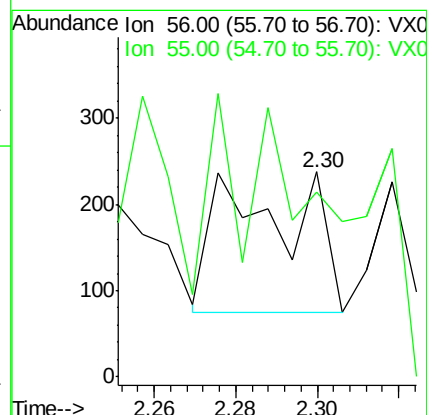
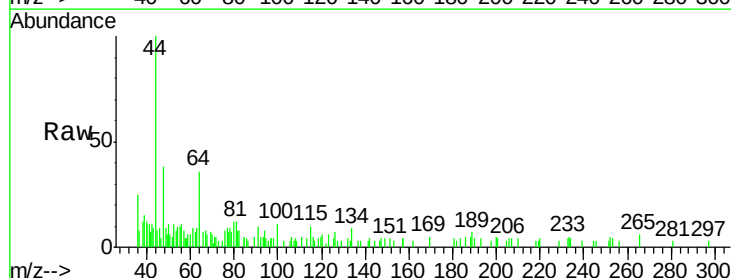
Tot Ion: 59 Resp: 6257
Ion Ratio Lower Upper
59 100
57 9.8 8.1 12.1

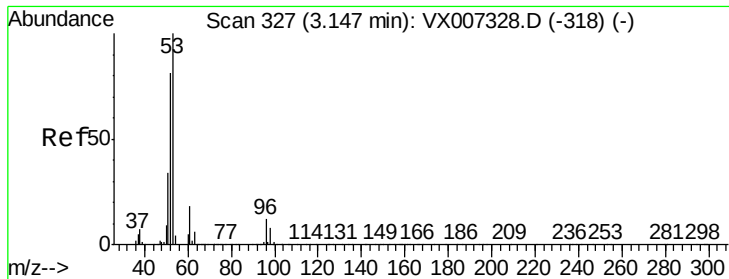


#13

Acrolein
Concen: 0.442 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX007491.D
Acq: 12 Feb 2019 16:23

Tgt Ion: 56 Resp: 226
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#





#15

Acrylonitrile

Concen: 0.294 ug/l

RT: 3.16 min Scan# 329

Delta R.T. 0.01 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

Instrument :

MSVOA_X

ClientSampled :

PB117025TB

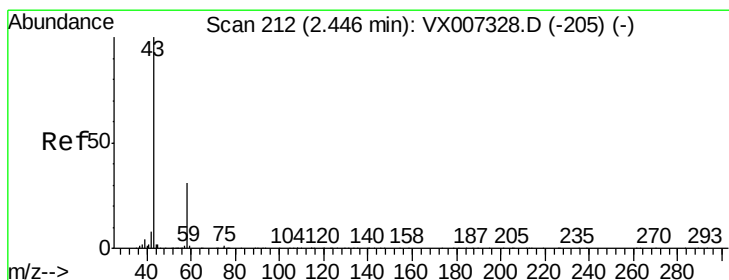
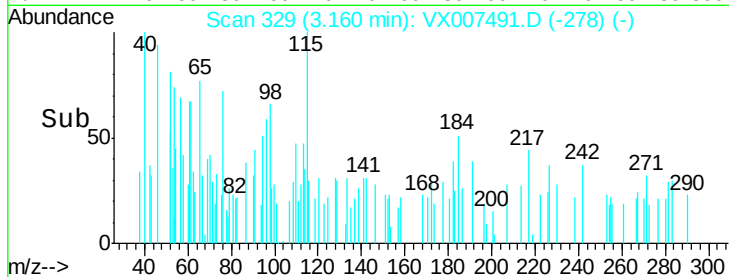
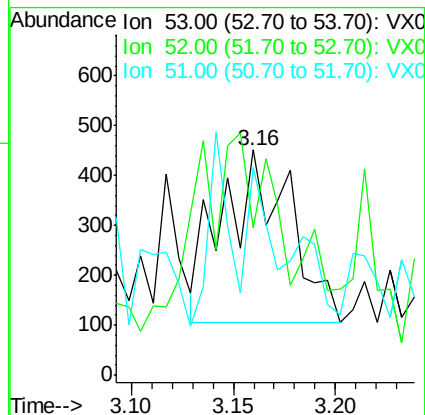
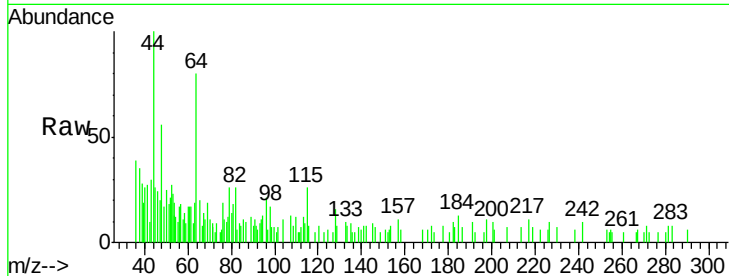
Tot Ion: 53 Resp: 794

Ion Ratio Lower Upper

53 100

52 98.1 66.4 99.6

51 20.2 28.4 42.6#



#16

Acetone

Concen: 15.372 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007491.D

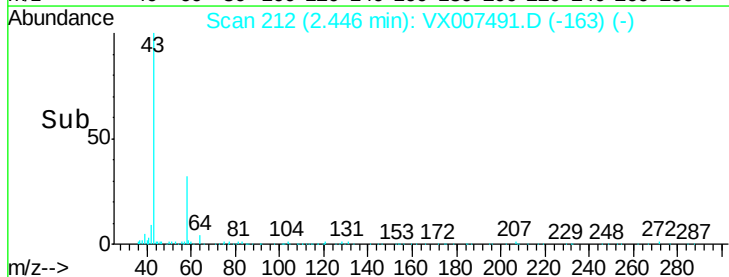
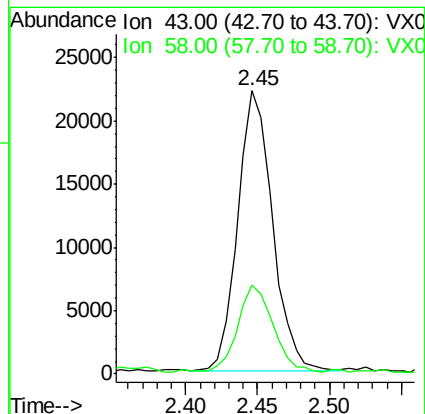
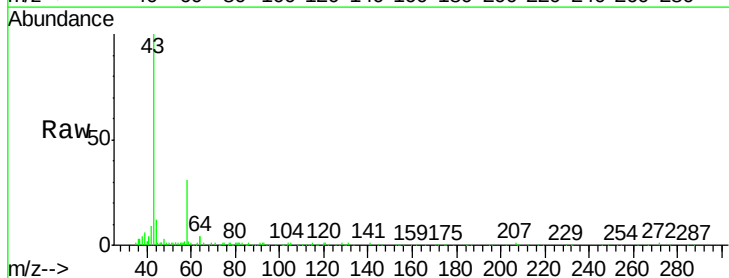
Acq: 12 Feb 2019 16:23

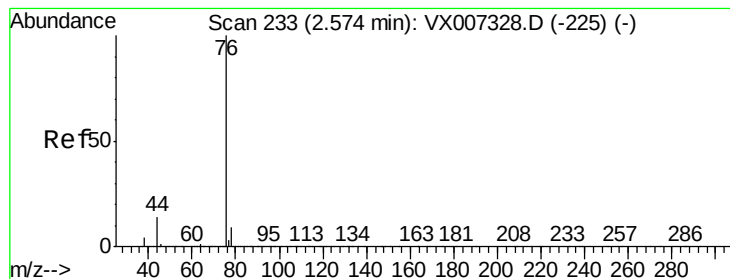
Tgt Ion: 43 Resp: 37138

Ion Ratio Lower Upper

43 100

58 30.3 24.9 37.3





#17

Carbon Disulfide

Concen: 2.289 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.01 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

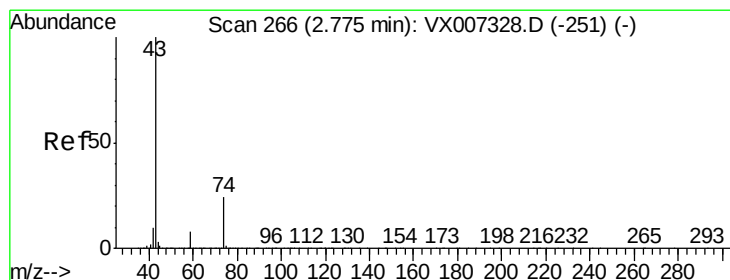
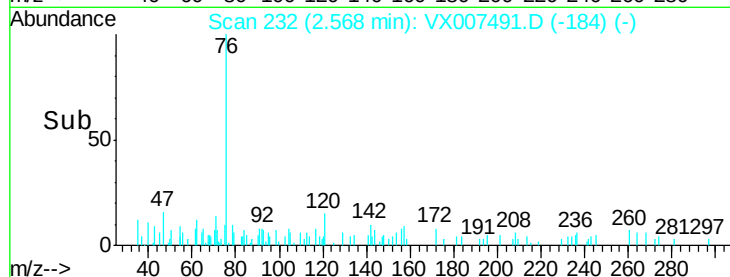
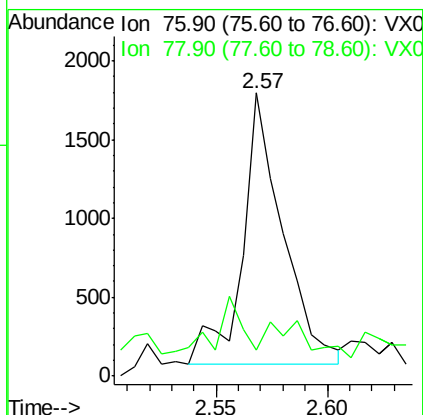
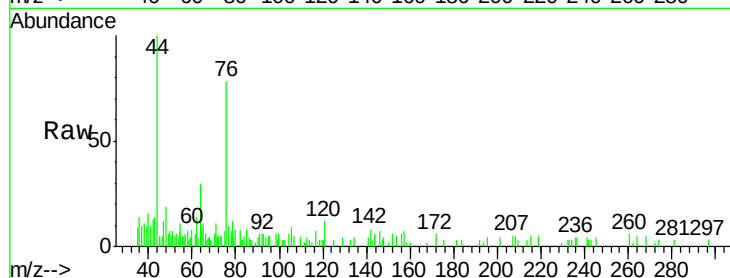
PB117025TB

Tot Ion: 76 Resp: 2182

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



#18

Methyl Acetate

Concen: 1.043 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX007491.D

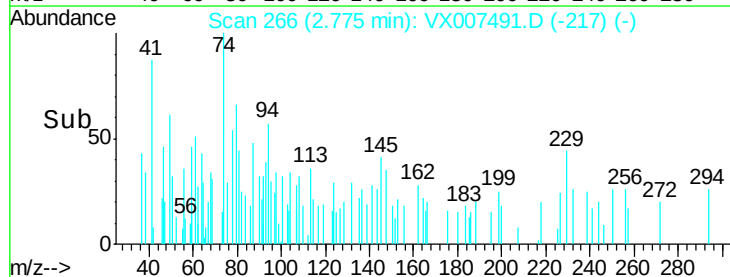
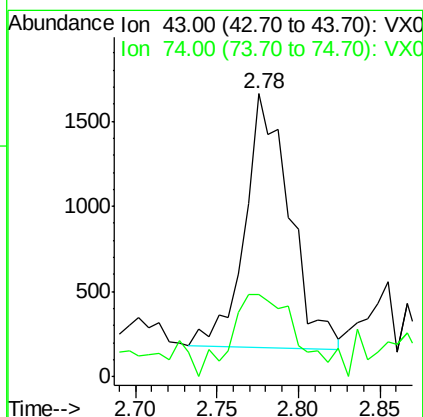
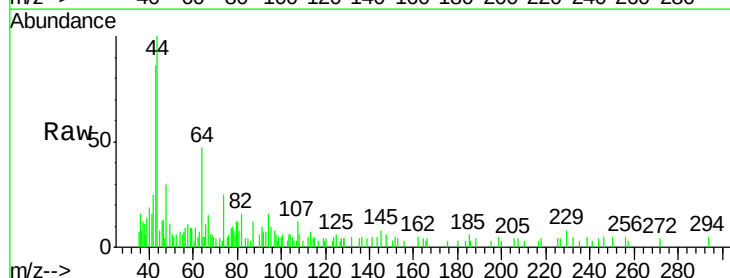
Acq: 12 Feb 2019 16:23

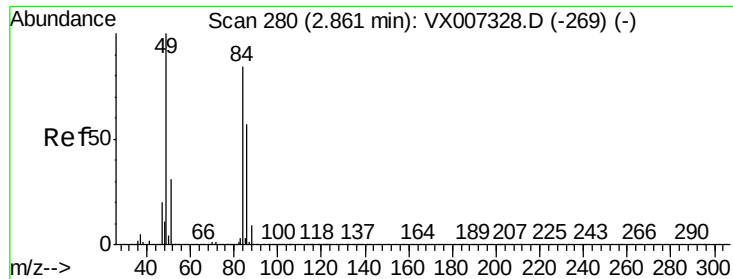
Tgt Ion: 43 Resp: 2866

Ion Ratio Lower Upper

43 100

74 45.6 19.4 29.2#

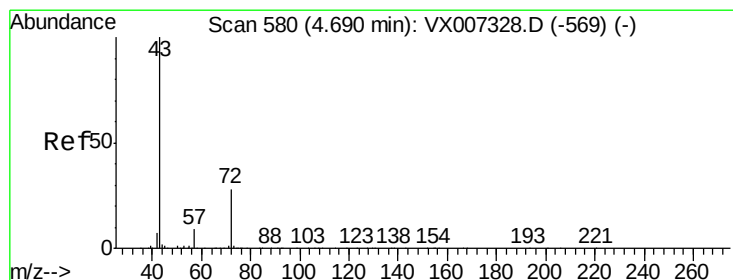
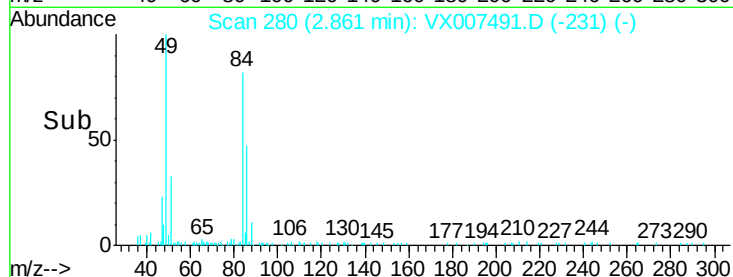
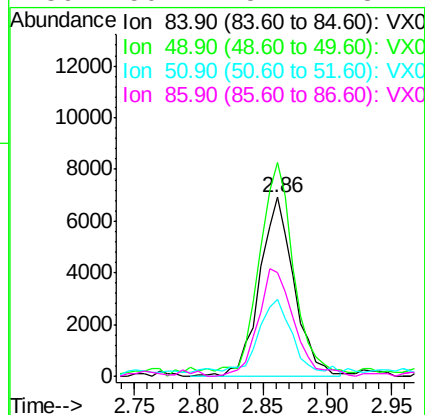
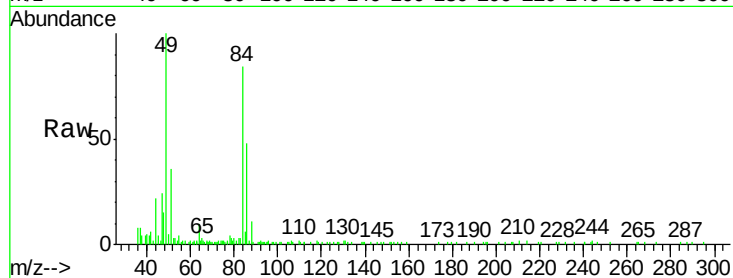




#20
Methvlene Chloride
Concen: 2.217 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007491.D
Acq: 12 Feb 2019 16:23

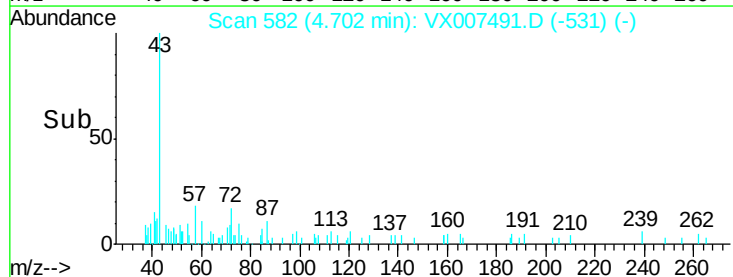
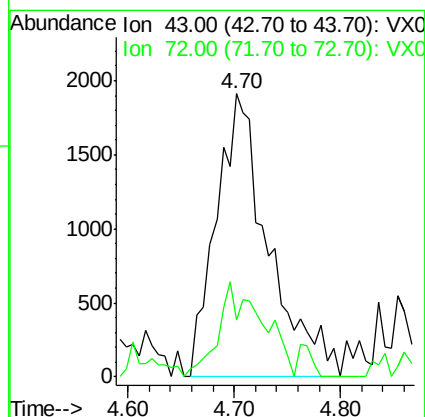
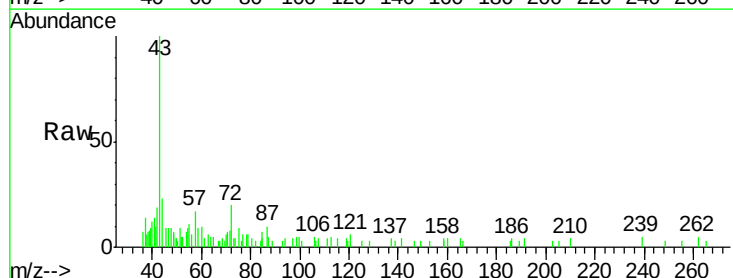
Instrument :
MSVOA_X
ClientSampleId :
PB117025TB

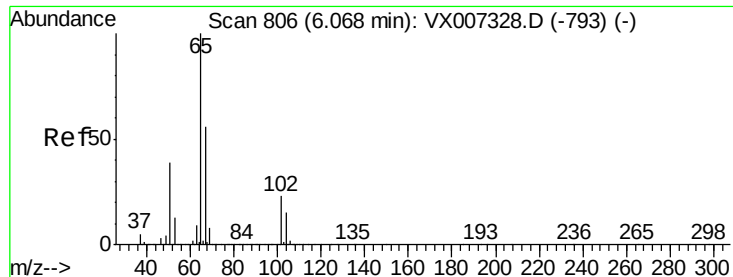
Tot Ion: 84 Resp: 12794
Ion Ratio Lower Upper
84 100
49 115.8 94.8 142.2
51 40.4 29.8 44.8
86 56.2 54.1 81.1



#25
2-Butanone
Concen: 1.894 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.01 min
Lab File: VX007491.D
Acq: 12 Feb 2019 16:23

Tgt Ion: 43 Resp: 6512
Ion Ratio Lower Upper
43 100
72 20.2 22.2 33.2#

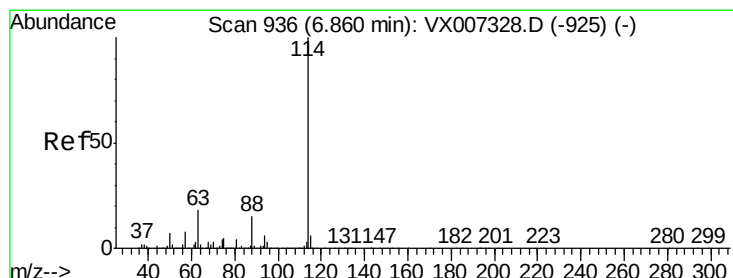
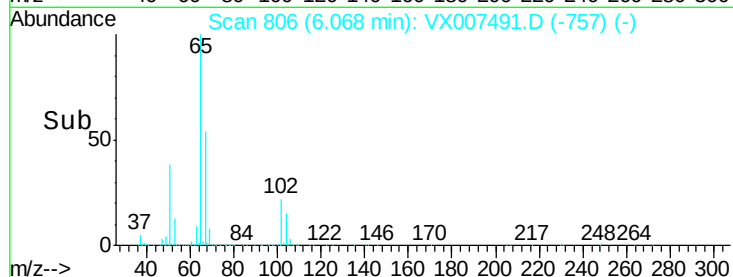
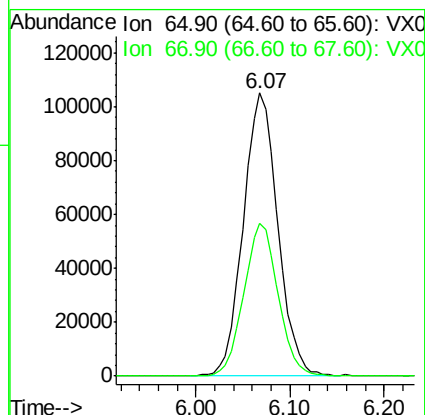
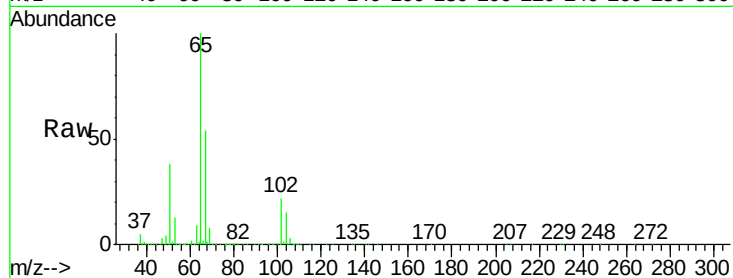




#33
 1,2-Dichloroethane-d4
 Concen: 51.231 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007491.D
 Acq: 12 Feb 2019 16:23

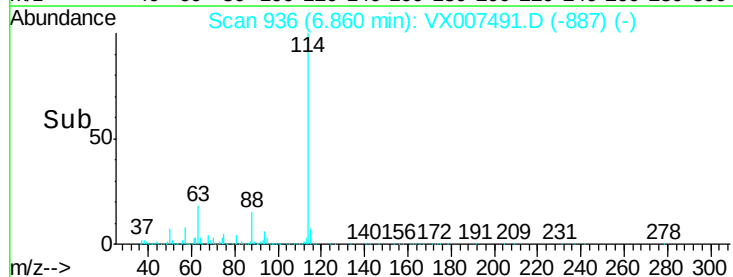
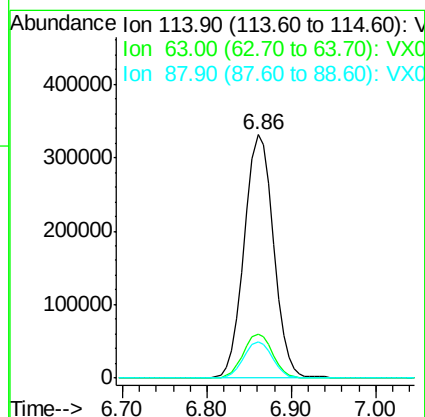
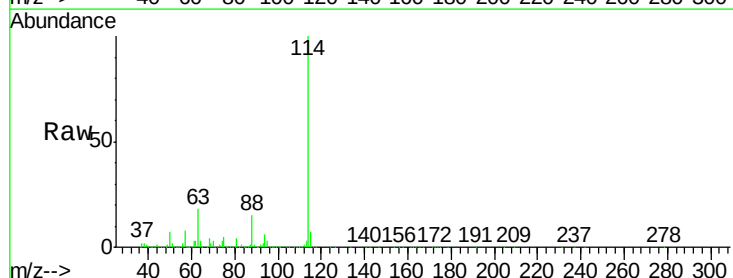
Instrument :
 MSVOA_X
 ClientSampleId :
 PB117025TB

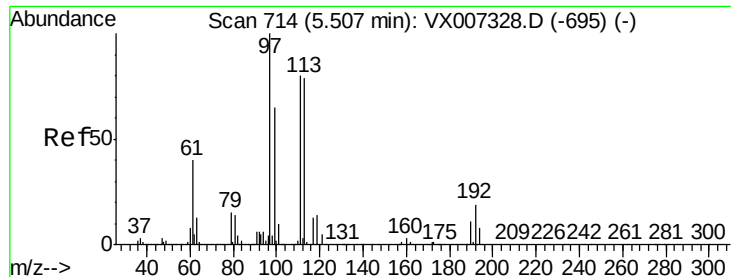
Tot Ion: 65 Resp: 270203
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007491.D
 Acq: 12 Feb 2019 16:23

Tgt Ion: 114 Resp: 779063
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 35.6
 88 14.8 0.0 29.6





#35

Dibromofluoromethane

Concen: 49.624 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.01 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

PB117025TB

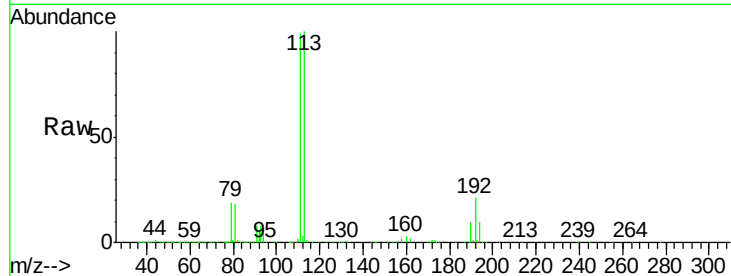
Tot Ion:113 Resp: 251549

Ion Ratio Lower Upper

113 100

111 102.3 81.8 122.8

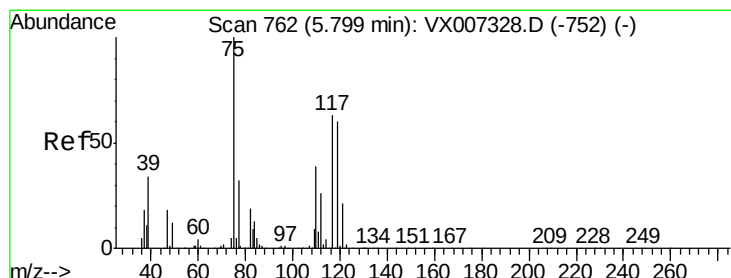
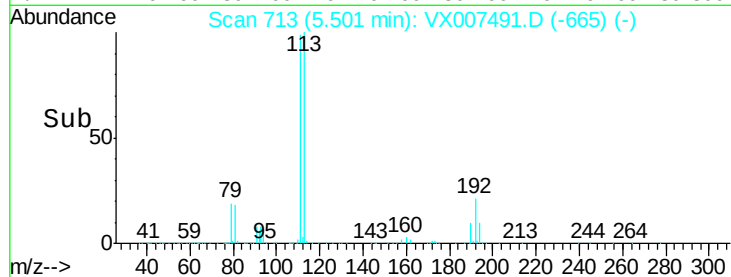
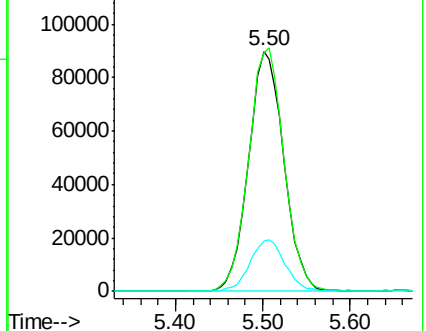
192 21.6 18.5 27.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.505 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

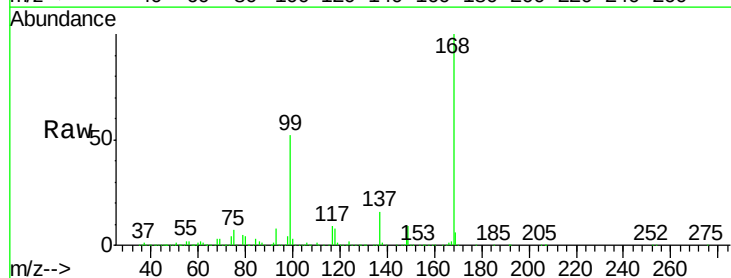
Tgt Ion: 75 Resp: 31492

Ion Ratio Lower Upper

75 100

110 11.0 20.0 59.9#

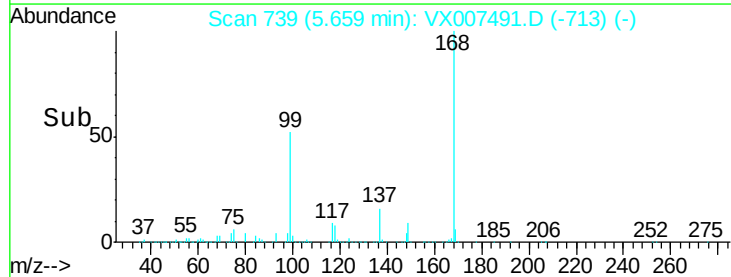
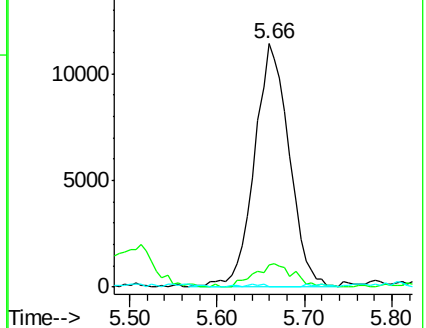
77 0.6 24.7 37.1#

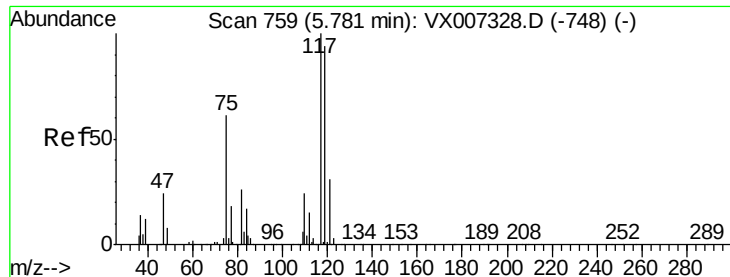


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.607 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

PB117025TB

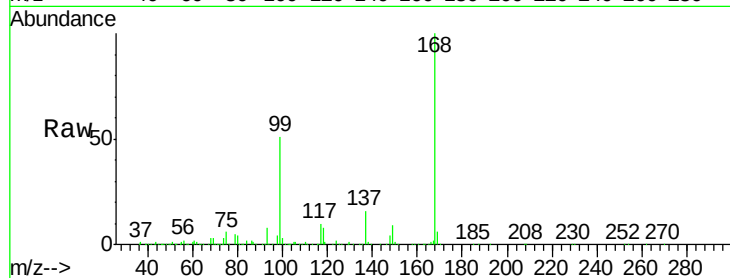
Tot Ion:117 Resp: 44803

Ion Ratio Lower Upper

117 100

119 6.1 75.3 112.9#

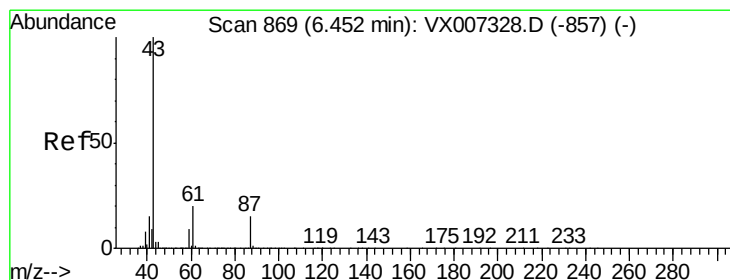
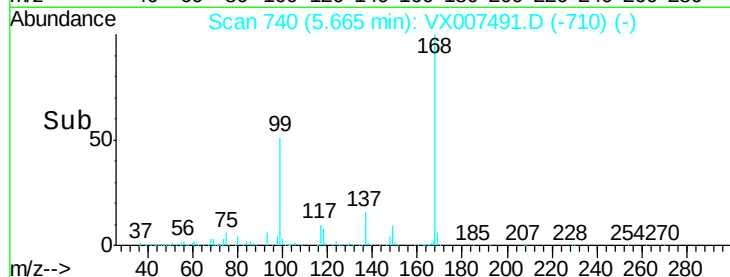
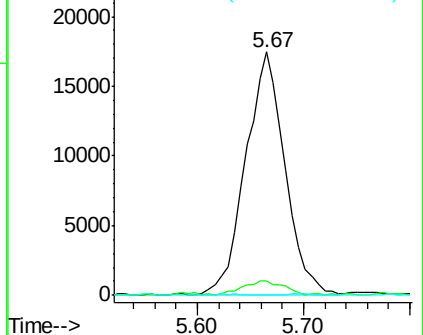
121 0.0 25.0 37.4#



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



#43

Isopropyl Acetate

Concen: 2.830 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.01 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

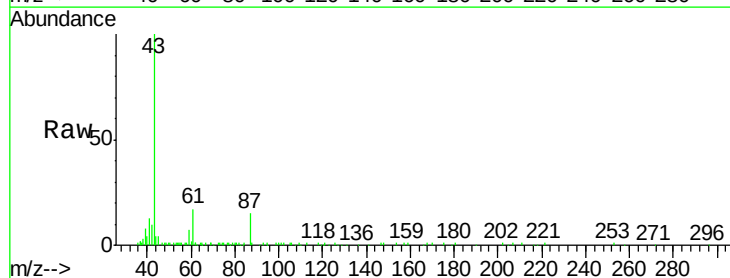
Tgt Ion: 43 Resp: 30861

Ion Ratio Lower Upper

43 100

61 21.0 16.1 24.1

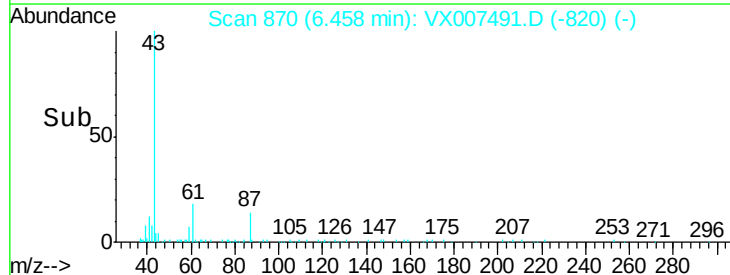
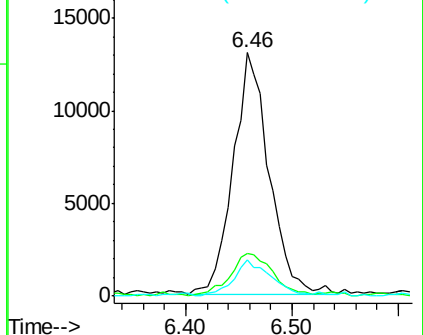
87 15.4 11.5 17.3

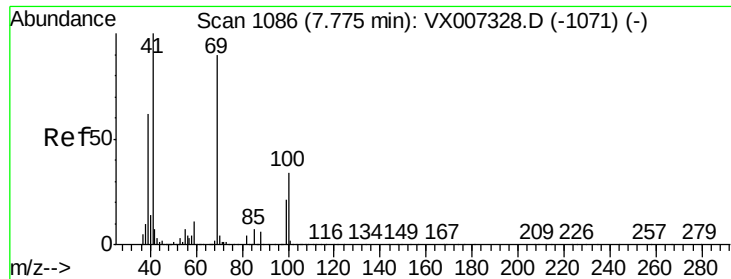


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

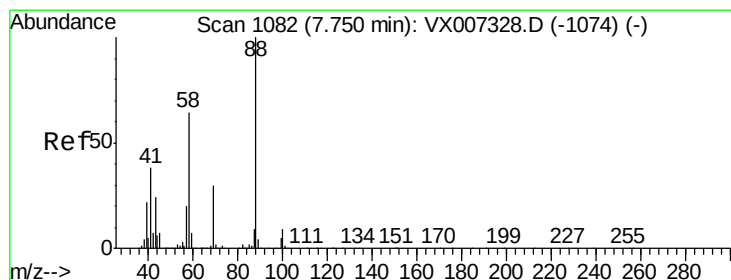
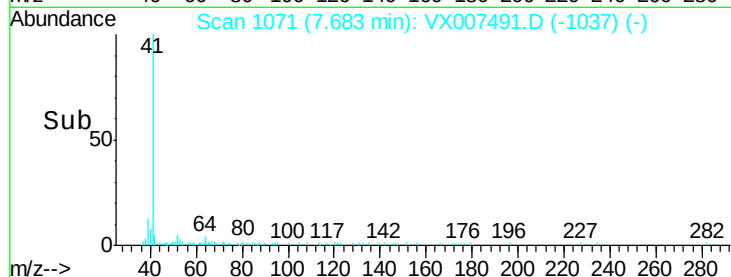
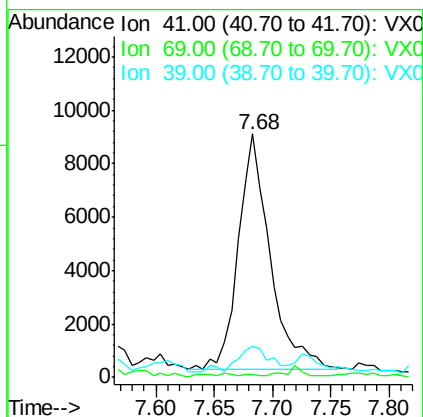
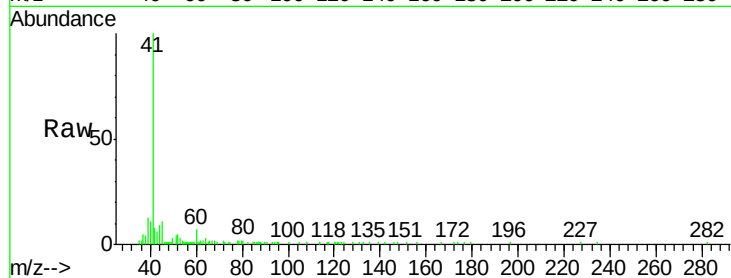




#48
Methvl methacrylate
Concen: 3.084 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX007491.D
Acq: 12 Feb 2019 16:23

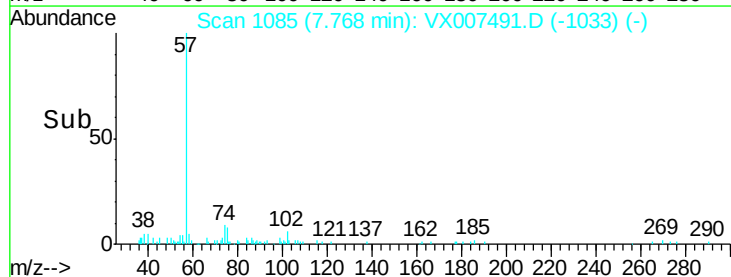
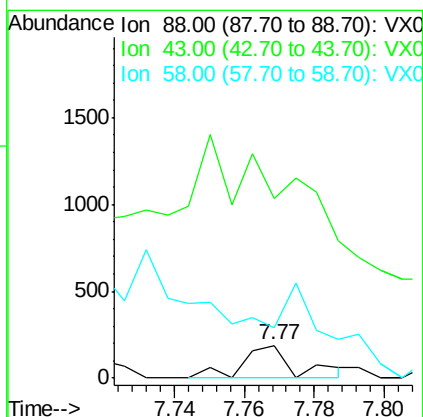
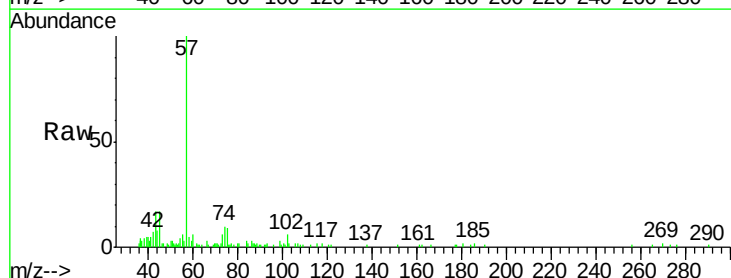
Instrument :
MSVOA_X
ClientSampleId :
PB117025TB

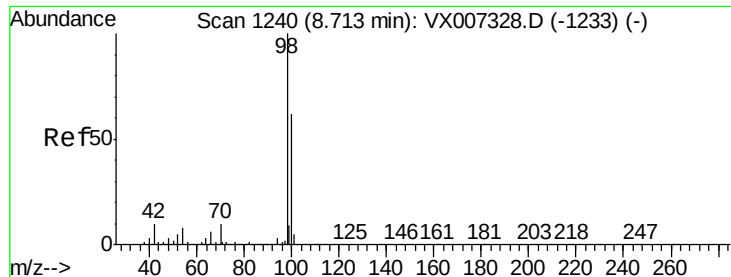
Tot Ion	Ratio	Lower	Upper
41	100		
69	0.0	70.2	105.4#
39	0.0	47.4	71.0#



#49
1,4-Dioxane
Concen: 8.472 ug/l
RT: 7.77 min Scan# 1085
Delta R.T. 0.02 min
Lab File: VX007491.D
Acq: 12 Feb 2019 16:23

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	24.2	36.4#
58	255.3	53.0	79.4#





#50

Toluene-d8

Concen: 51.104 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

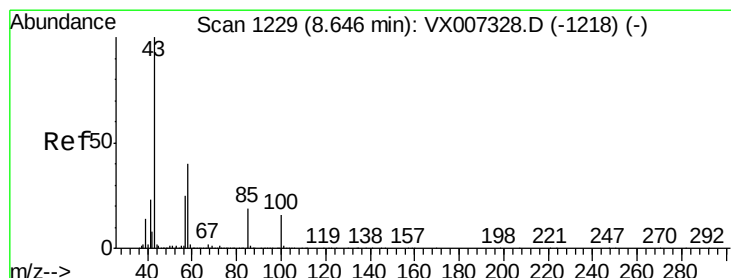
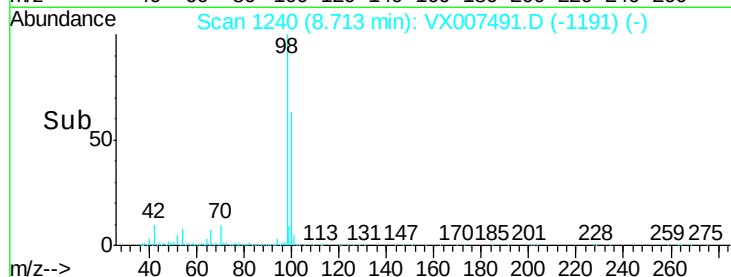
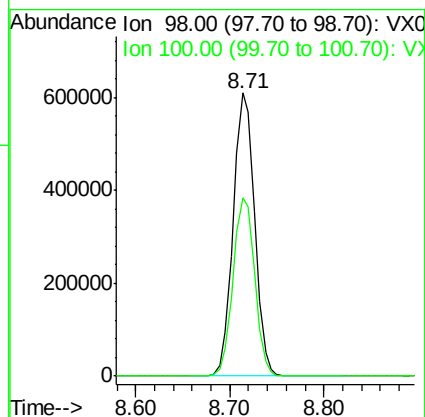
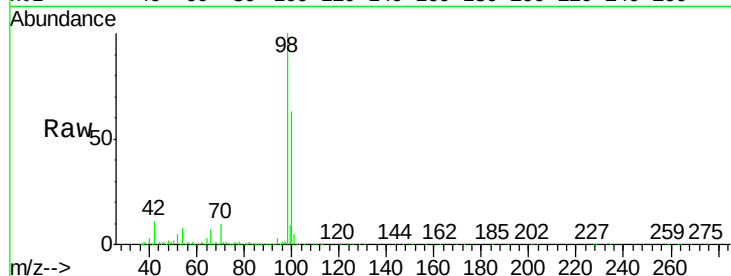
PB117025TB

Tot Ion: 98 Resp: 961129

Ion Ratio Lower Upper

98 100

100 63.8 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 22.177 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007491.D

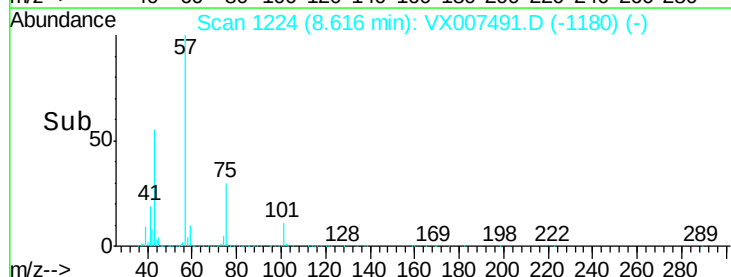
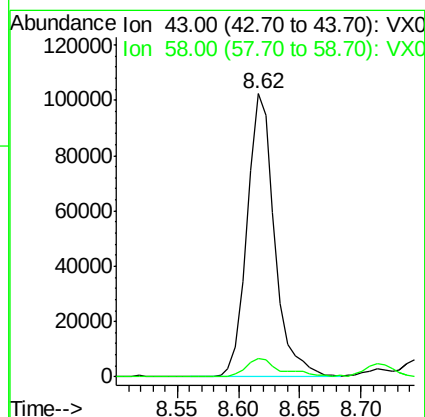
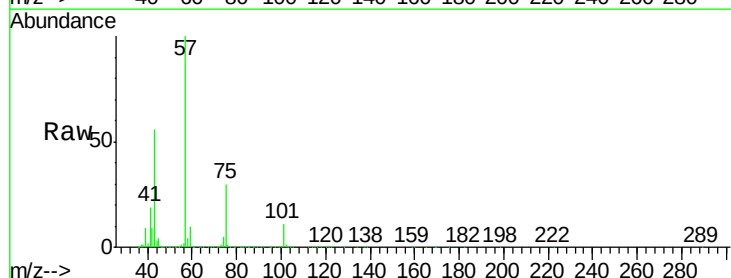
Acq: 12 Feb 2019 16:23

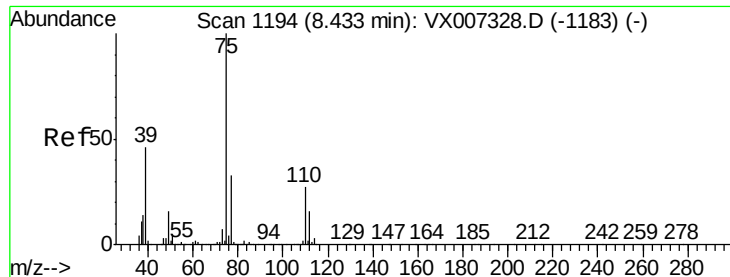
Tgt Ion: 43 Resp: 159230

Ion Ratio Lower Upper

43 100

58 8.5 31.2 46.8#





#54

cis-1,3-Dichloropropene

Concen: 10.634 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

PB117025TB

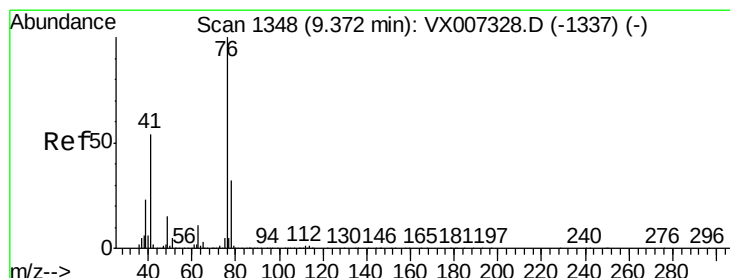
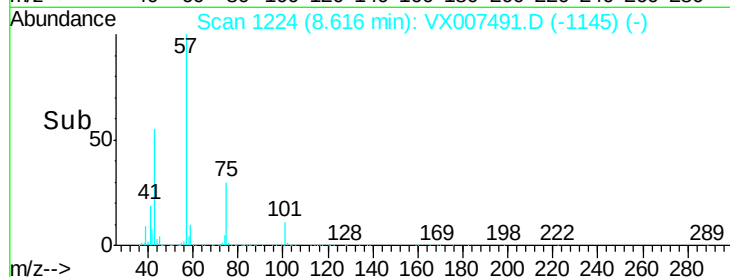
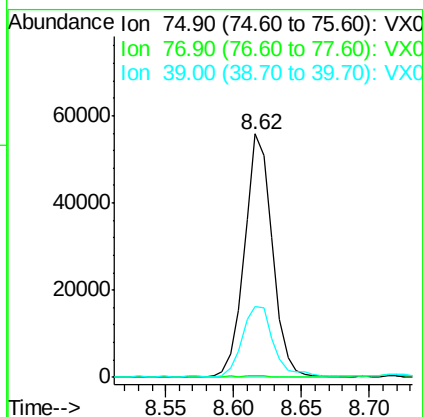
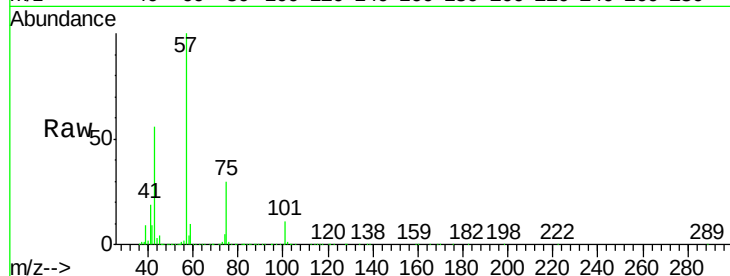
Tot Ion: 75 Resp: 79821

Ion Ratio Lower Upper

75 100

77 0.3 26.2 39.4#

39 28.5 37.1 55.7#



#57

1,3-Dichloropropane

Concen: 1.908 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007491.D

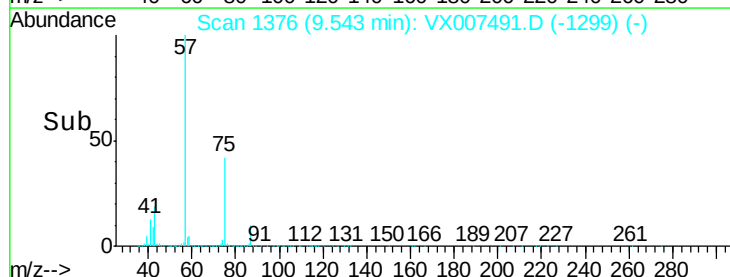
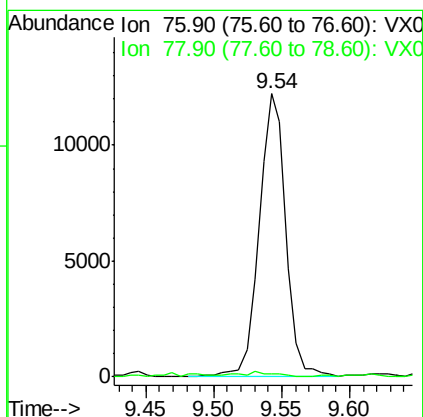
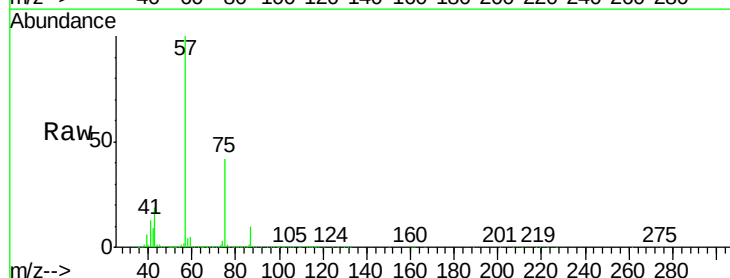
Acq: 12 Feb 2019 16:23

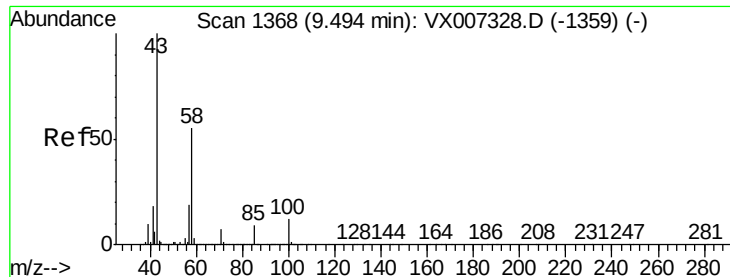
Tgt Ion: 76 Resp: 16805

Ion Ratio Lower Upper

76 100

78 1.6 25.8 38.8#

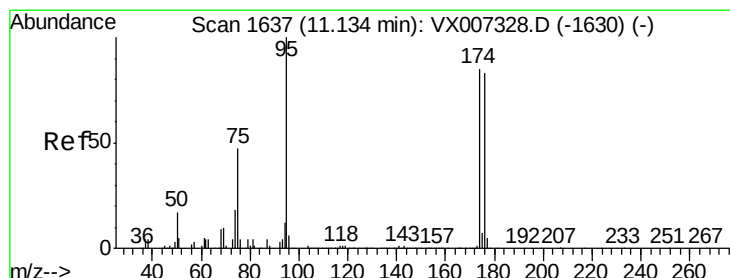
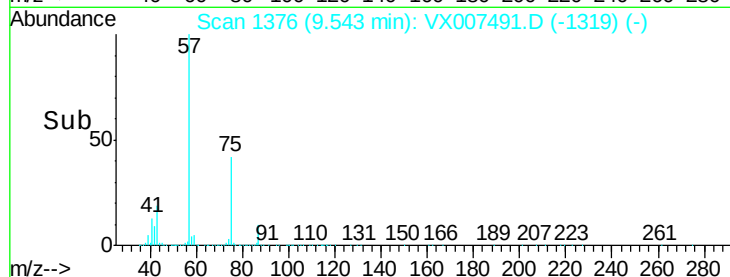
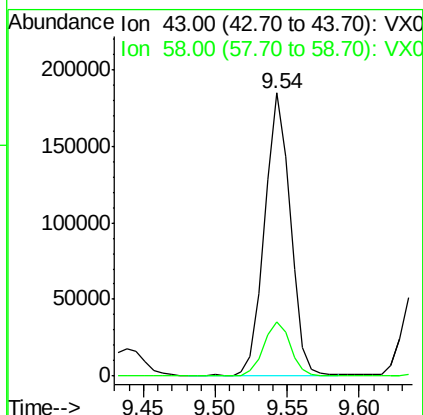
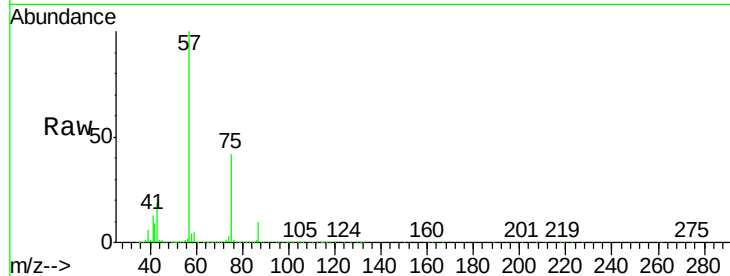




#59
2-Hexanone
Concen: 40.596 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007491.D
Acq: 12 Feb 2019 16:23

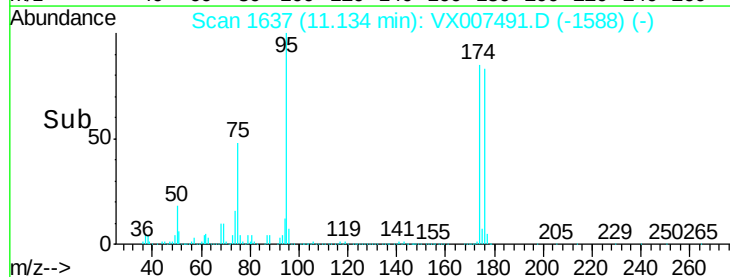
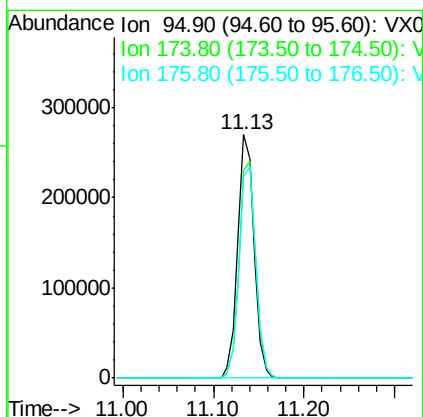
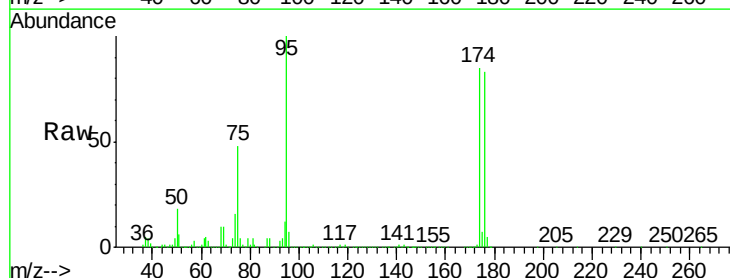
Instrument :
MSVOA_X
ClientSampleId :
PB117025TB

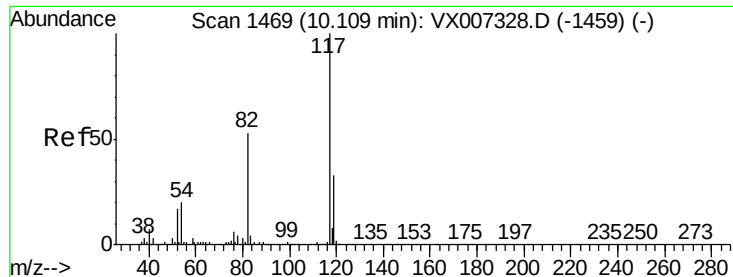
Tot Ion: 43 Resp: 226816
Ion Ratio Lower Upper
43 100
58 19.7 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 49.408 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007491.D
Acq: 12 Feb 2019 16:23

Tgt Ion: 95 Resp: 339260
Ion Ratio Lower Upper
95 100
174 90.8 0.0 189.2
176 88.6 0.0 186.2

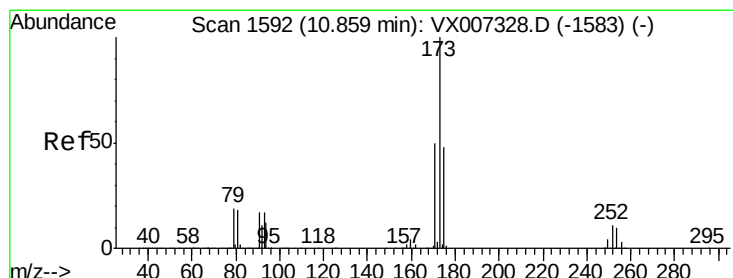
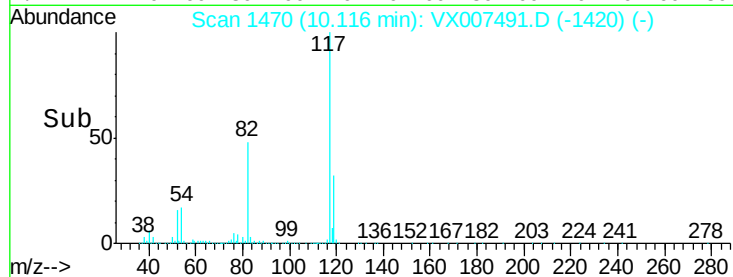
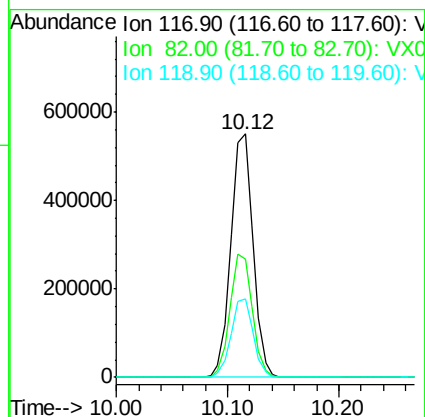
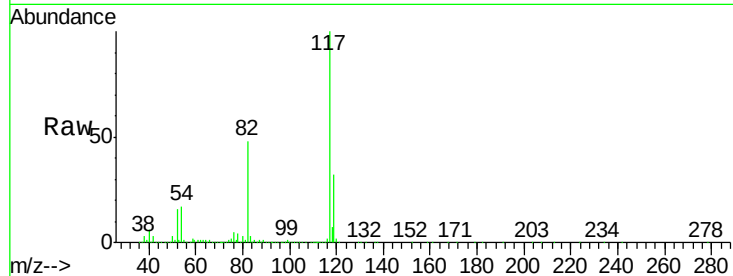




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX007491.D
Acq: 12 Feb 2019 16:23

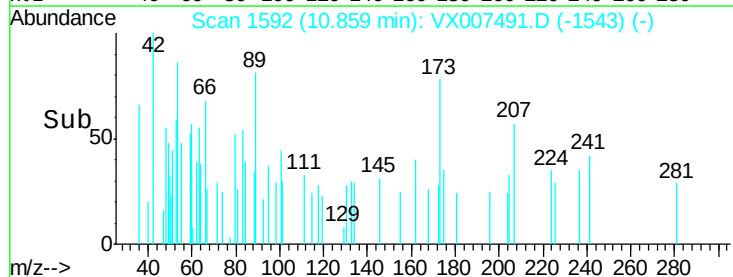
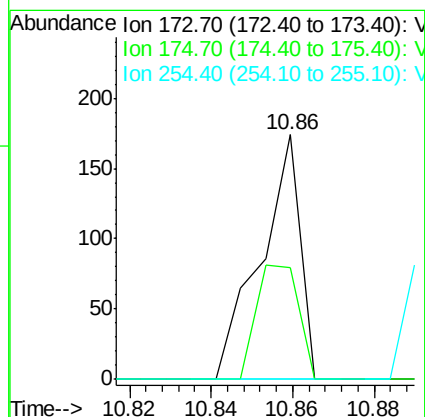
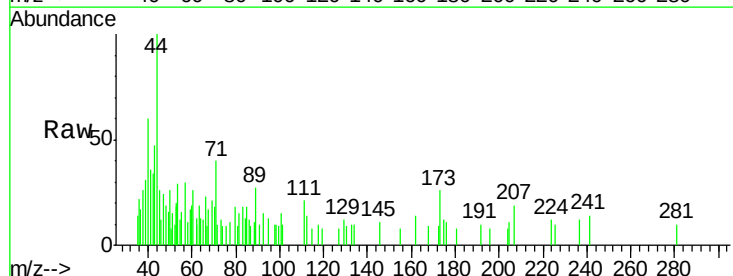
Instrument :
MSVOA_X
ClientSampleId :
PB117025TB

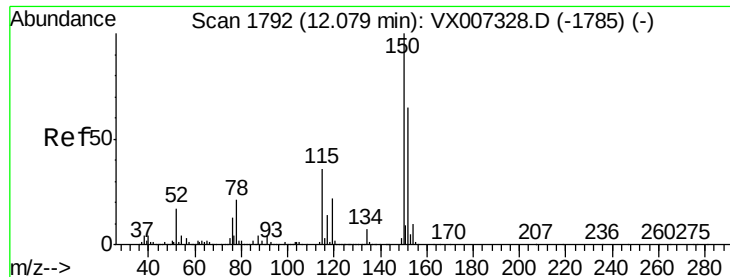
Tot Ion	Ratio	Lower	Upper
117	100		
82	48.3	42.1	63.1
119	32.3	26.5	39.7



#71
Bromoform
Concen: 4.052 ug/l
RT: 10.86 min Scan# 1592
Delta R.T. 0.00 min
Lab File: VX007491.D
Acq: 12 Feb 2019 16:23

Tgt Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.2	72.6#
254	0.0	0.2	0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

PB117025TB

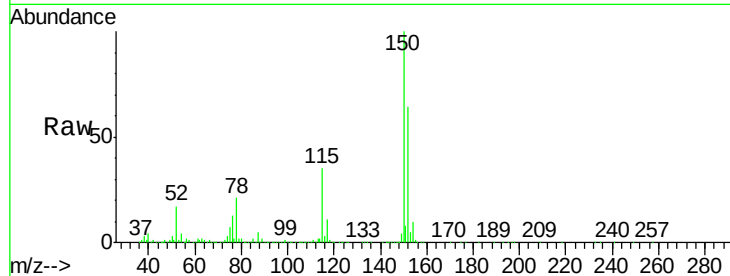
Tot Ion:152 Resp: 354417

Ion Ratio Lower Upper

152 100

115 54.8 38.0 114.0

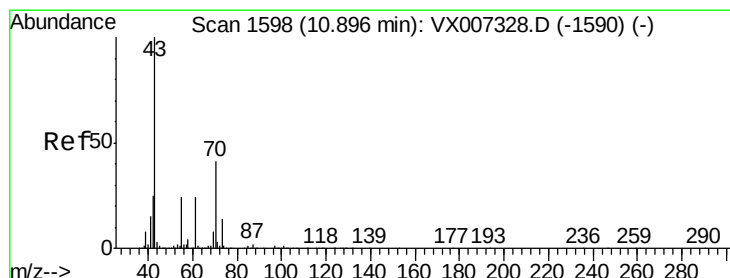
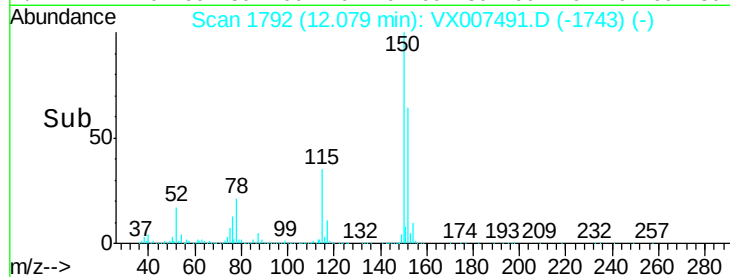
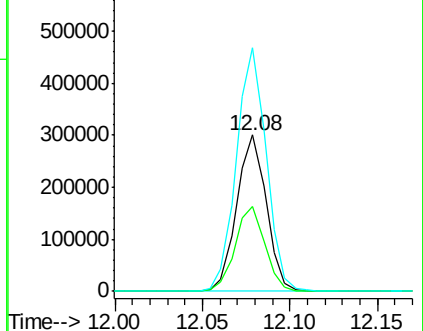
150 157.0 0.0 346.4



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: 2.728 ug/l

RT: 10.69 min Scan# 1565

Delta R.T. -0.20 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

Tgt Ion: 43 Resp: 25412

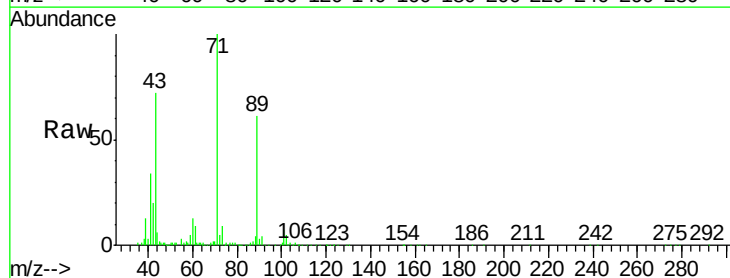
Ion Ratio Lower Upper

43 100

70 3.3 33.8 50.6#

55 6.3 19.5 29.3#

61 10.9 19.4 29.2#

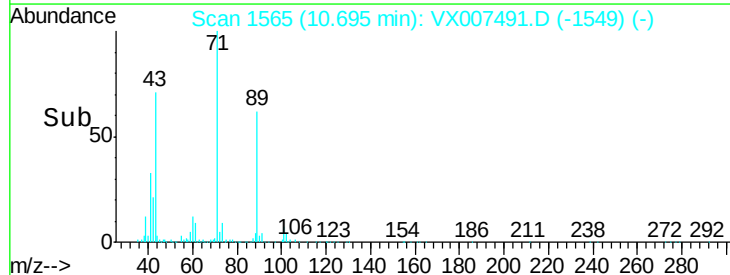
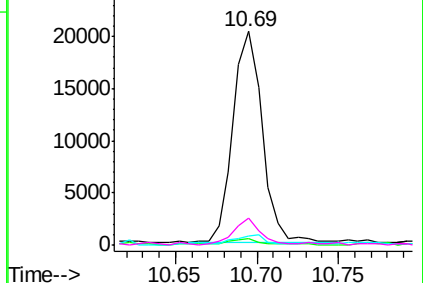


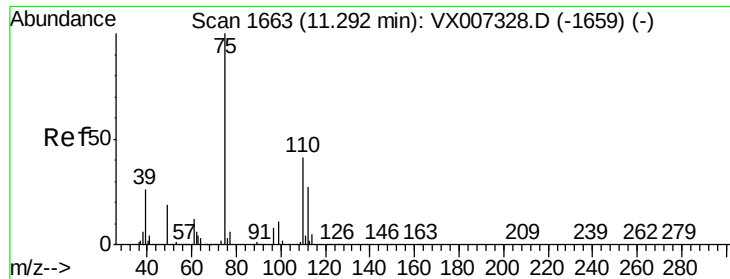
Abundance Ion 43.00 (42.70 to 43.70): VX0

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





#76

1,2,3-Trichloropropane

Concen: 23.431 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

Instrument :

MSVOA_X

ClientSampled :

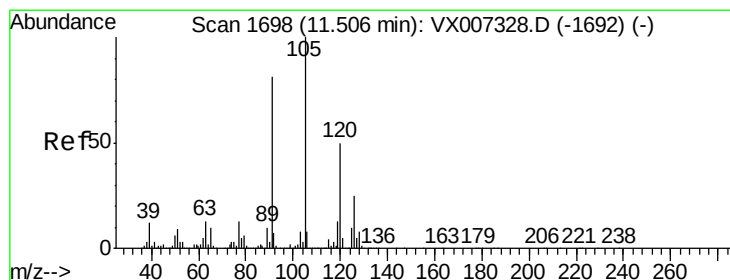
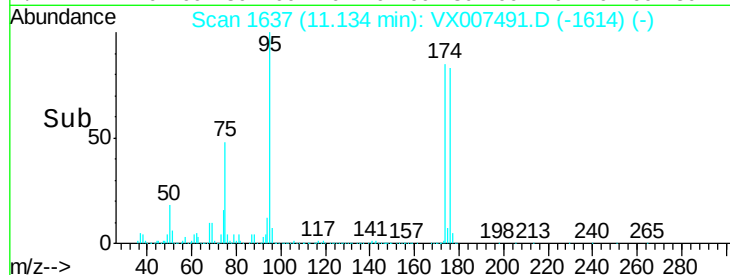
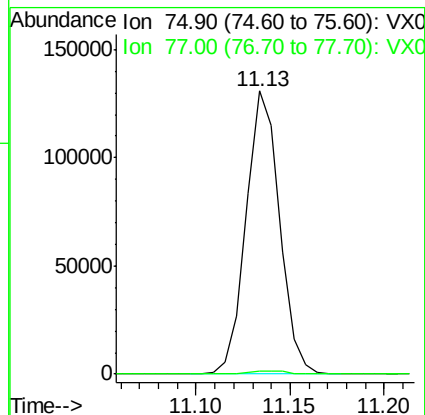
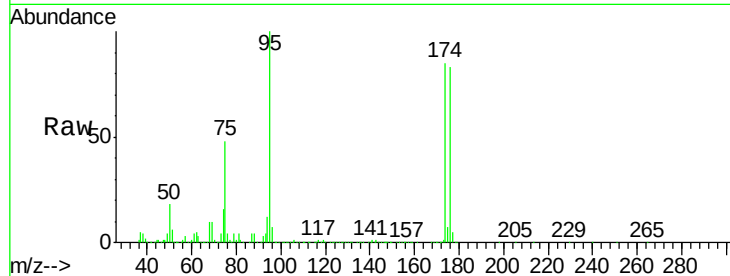
PB117025TB

Tot Ion: 75 Resp: 161531

Ion Ratio Lower Upper

75 100

77 1.6 23.0 69.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.770 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007491.D

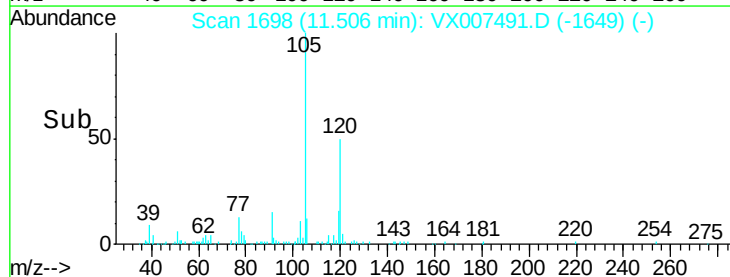
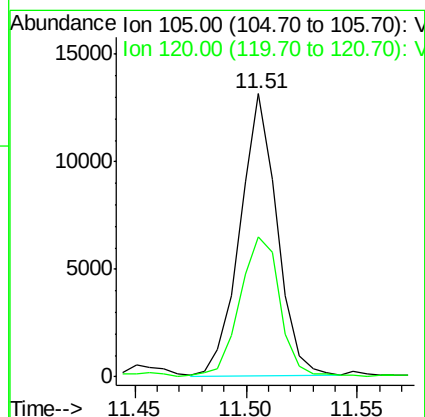
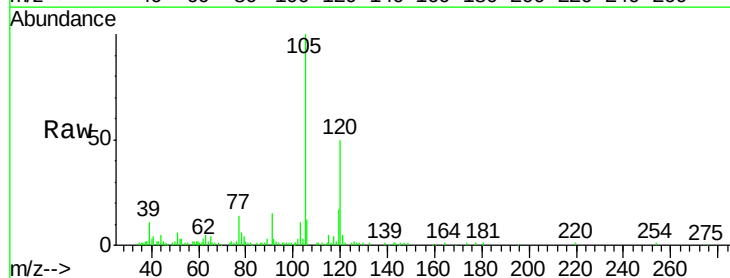
Acq: 12 Feb 2019 16:23

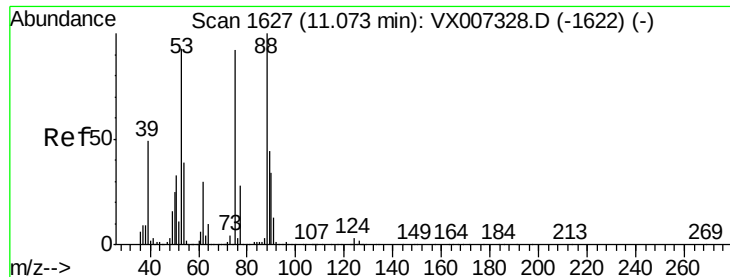
Tgt Ion: 105 Resp: 15178

Ion Ratio Lower Upper

105 100

120 54.7 25.3 75.8





#81

trans-1,4-Dichloro-2-butene

Concen: 70.527 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

Instrument :

MSVOA_X

ClientSampleId :

PB117025TB

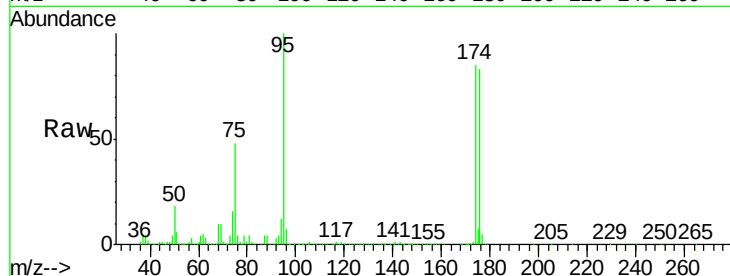
Tot Ion: 75 Resp: 161531

Ion Ratio Lower Upper

75 100

53 0.1 81.0 121.6#

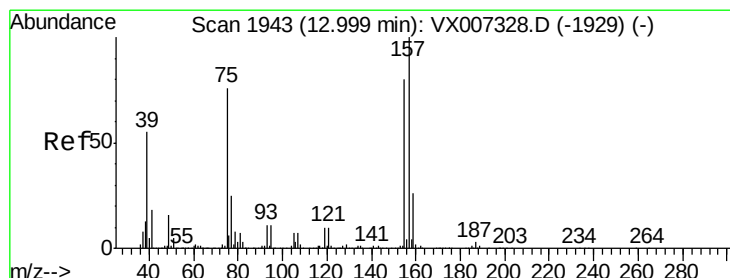
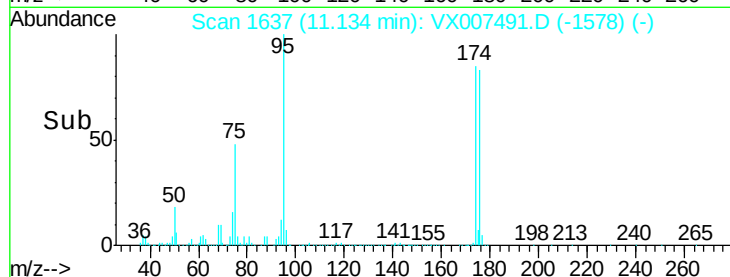
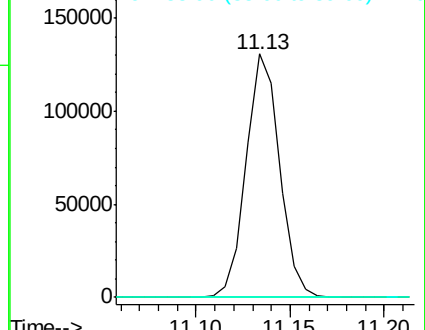
89 0.2 41.4 62.0#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.408 ug/l

RT: 12.98 min Scan# 1940

Delta R.T. -0.02 min

Lab File: VX007491.D

Acq: 12 Feb 2019 16:23

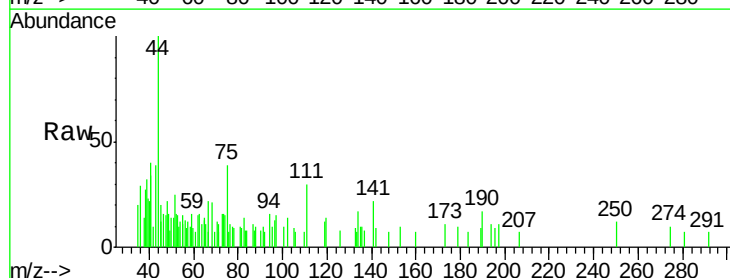
Tgt Ion: 75 Resp: 622

Ion Ratio Lower Upper

75 100

155 6.6 49.6 149.0#

157 14.5 65.1 195.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

