

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100318\
 Data File : VX004934.D
 Acq On : 02 Oct 2018 22:09
 Operator : JC/MD
 Sample : PB113401ZHE#02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB113401ZHE#02

Quant Time: Oct 03 04:45:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	200702	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	337202	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	338323	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	182810	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	161478	56.32	ug/l	0.00
Spiked Amount			Recovery	=	112.64%	
35) Dibromofluoromethane	5.50	113	135866	47.54	ug/l	0.00
Spiked Amount			Recovery	=	95.08%	
50) Toluene-d8	8.72	98	494086	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
62) 4-Bromofluorobenzene	11.14	95	174609	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	

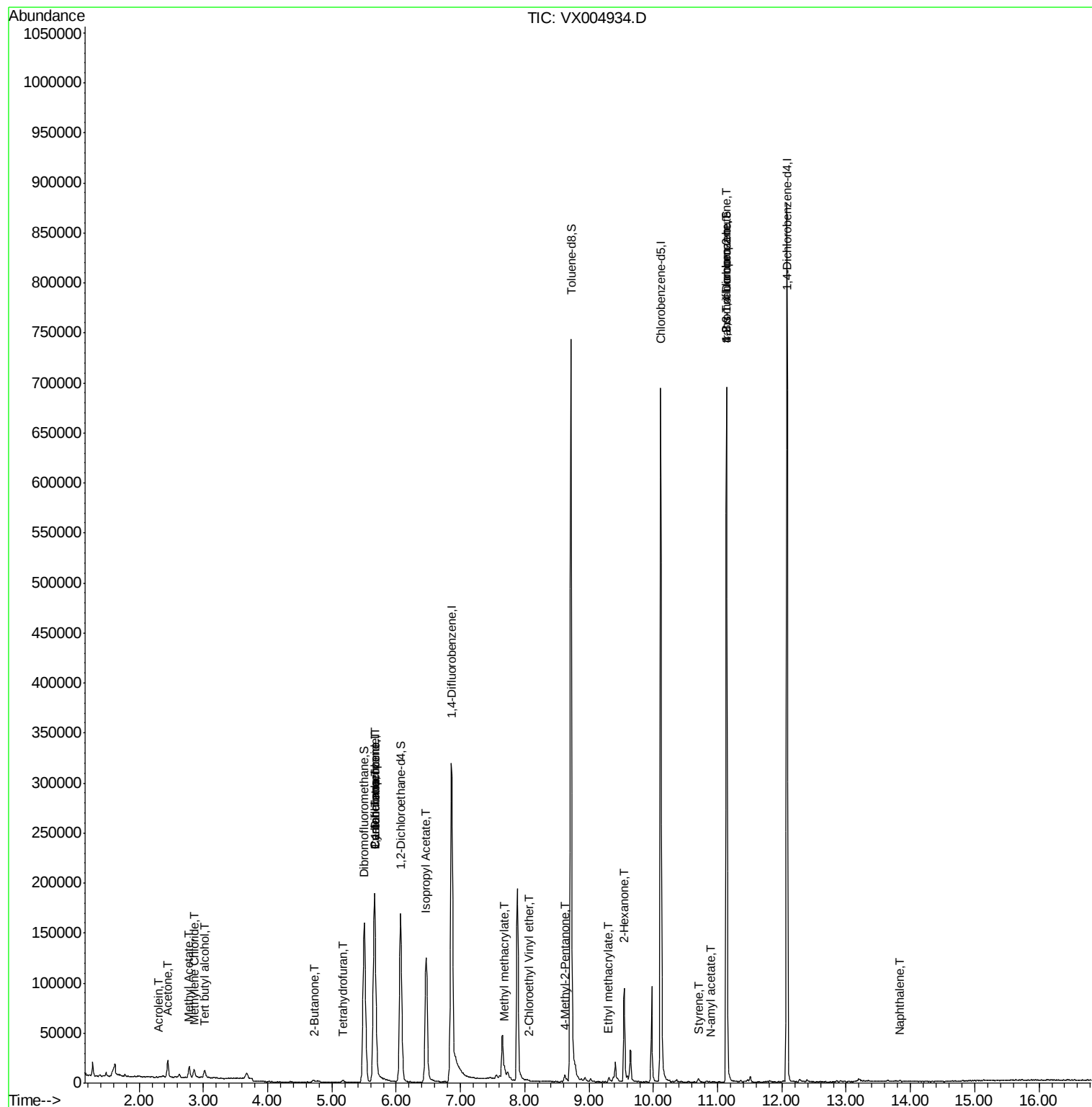
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.68	64	204	Below Cal		98
11) Tert butyl alcohol	3.02	59	4927	6.146	ug/l #	78
13) Acrolein	2.29	56	201	0.352	ug/l	92
16) Acetone	2.45	43	17951	10.725	ug/l	94
18) Methyl Acetate	2.78	43	14163	3.340	ug/l	97
20) Methylene Chloride	2.85	84	3288	0.521	ug/l #	83
25) 2-Butanone	4.71	43	3685	1.494	ug/l	99
29) Tetrahydrofuran	5.17	42	1647	1.074	ug/l #	65
31) Cyclohexane	5.66	56	3725	1.021	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	13471	3.455	ug/l #	47
38) Carbon Tetrachloride	5.67	117	18330	4.472	ug/l #	17
43) Isopropyl Acetate	6.46	43	173827	23.269	ug/l	98
48) Methyl methacrylate	7.69	41	9035	2.665	ug/l #	20
51) 4-Methyl-2-Pentanone	8.62	43	2726	0.580	ug/l #	37
56) Ethyl methacrylate	9.30	69	90	2.880	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.07	63	46	14.259	ug/l #	49
59) 2-Hexanone	9.55	43	10580	2.699	ug/l #	56
70) Styrene	10.71	104	379	2.180	ug/l #	84
74) N-amyl acetate	10.89	43	87	1.761	ug/l #	44
76) 1,2,3-Trichloropropane	11.14	75	86258	21.052	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	2030	Below Cal		96
81) trans-1,4-Dichloro-2-buten	11.14	75	86258	57.121	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	620	Below Cal		95
95) Naphthalene	13.84	128	768	0.769	ug/l #	84

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

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Quant Time: Oct 03 04:45:01 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 03 04:00:03 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

Instrument :

MSVOA_X

ClientSampleId :

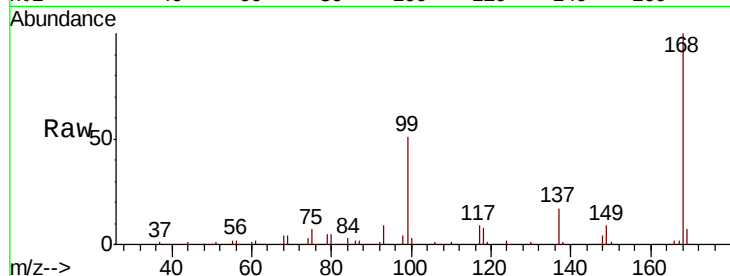
PB113401ZHE#02

Tot Ion:168 Resp: 200702

Ion Ratio Lower Upper

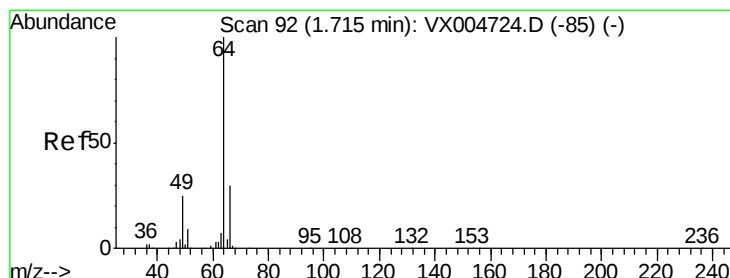
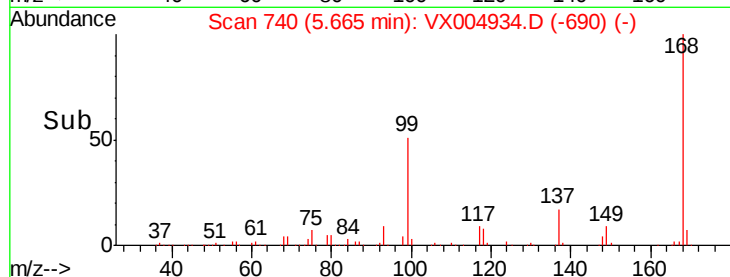
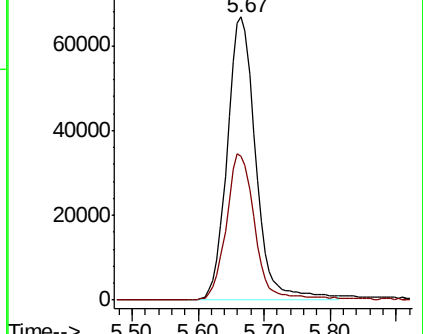
168 100

99 50.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.68 min Scan# 86

Delta R.T. -0.04 min

Lab File: VX004934.D

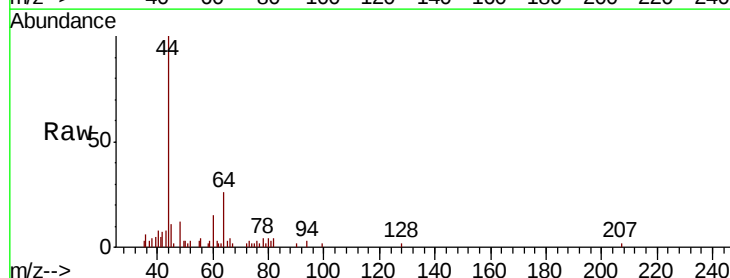
Acq: 02 Oct 2018 22:09

Tgt Ion: 64 Resp: 204

Ion Ratio Lower Upper

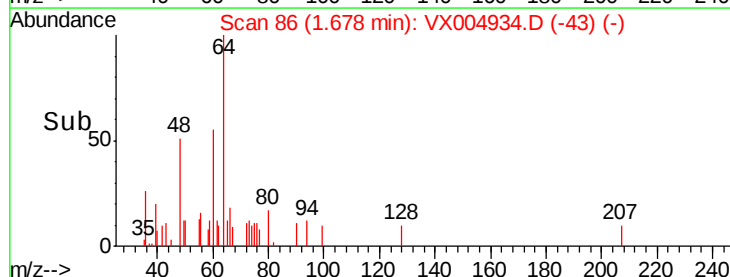
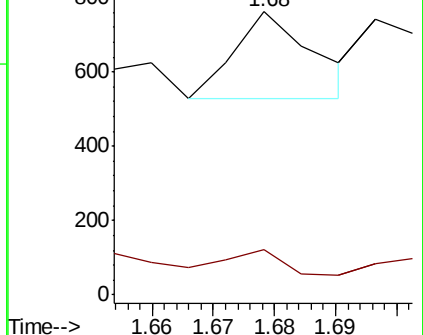
64 100

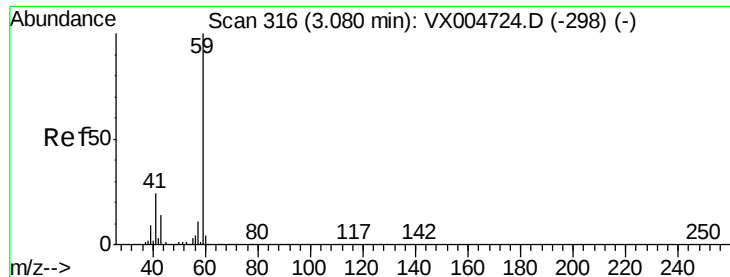
66 28.9 23.8 35.6



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

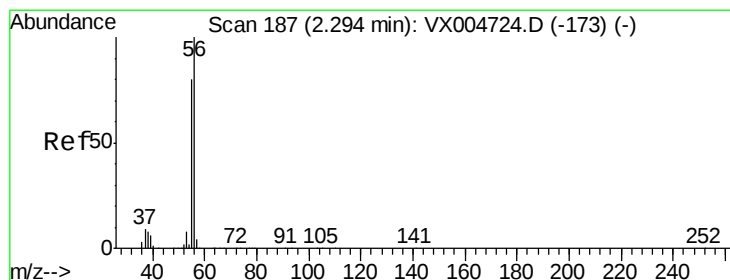
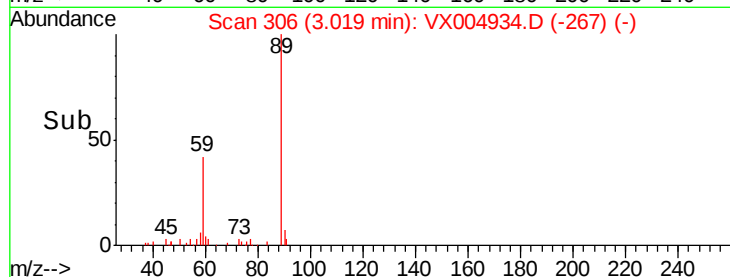
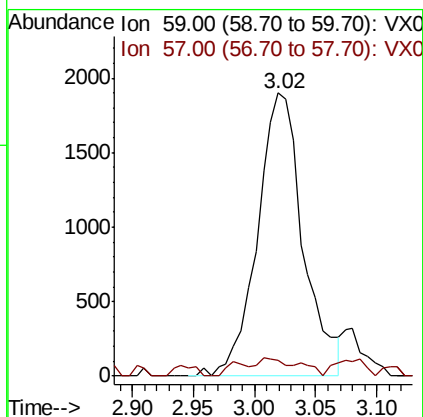
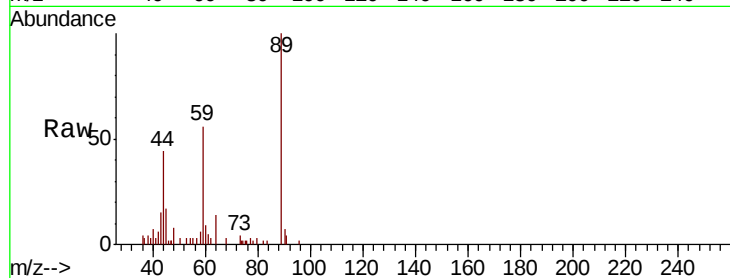




#11
Tert butyl alcohol
Concen: 6.146 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX004934.D
Acq: 02 Oct 2018 22:09

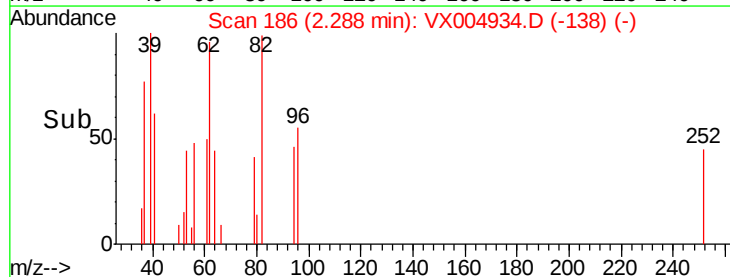
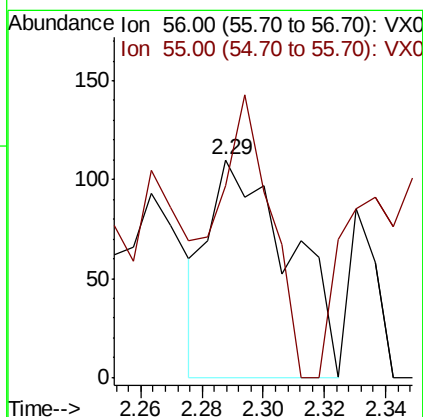
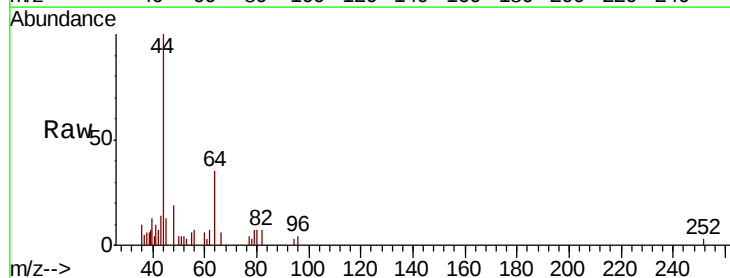
Instrument :
MSVOA_X
ClientSampleId :
PB113401ZHE#02

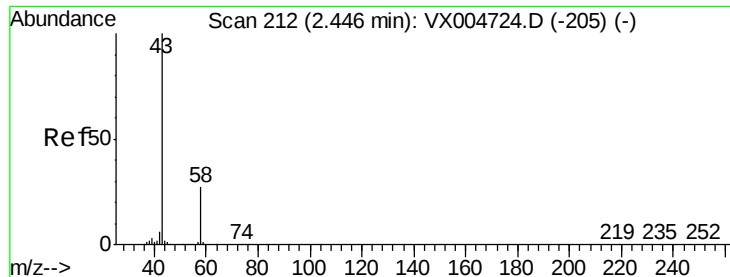
Tot Ion: 59 Resp: 4927
Ion Ratio Lower Upper
59 100
57 2.5 8.6 12.8#



#13
Acrolein
Concen: 0.352 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX004934.D
Acq: 02 Oct 2018 22:09

Tgt Ion: 56 Resp: 201
Ion Ratio Lower Upper
56 100
55 86.1 63.4 95.2





#16

Acetone

Concen: 10.725 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

Instrument :

MSVOA_X

ClientSampleId :

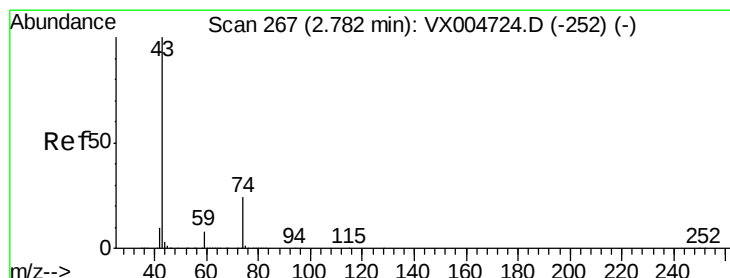
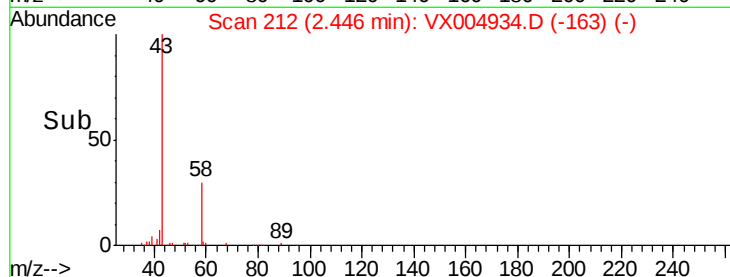
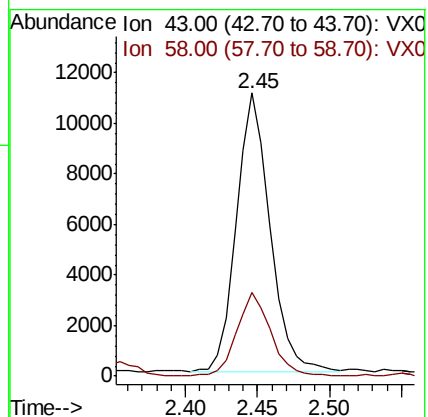
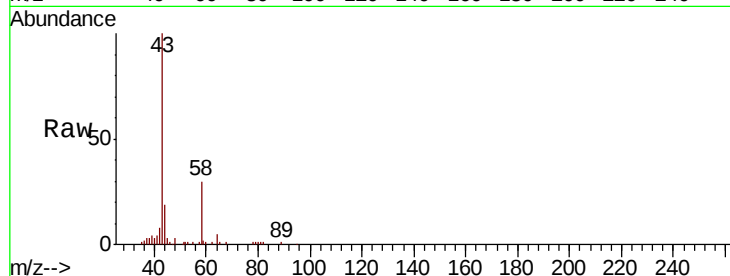
PB113401ZHE#02

Tot Ion: 43 Resp: 17951

Ion Ratio Lower Upper

43 100

58 30.2 21.8 32.6



#18

Methyl Acetate

Concen: 3.340 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX004934.D

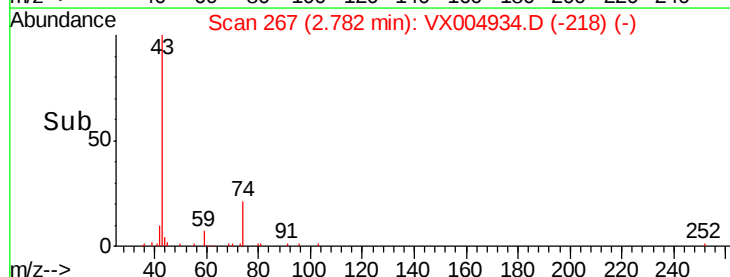
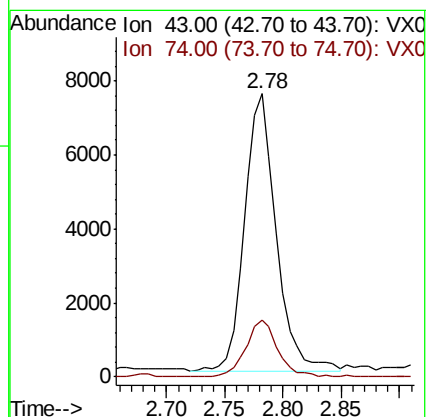
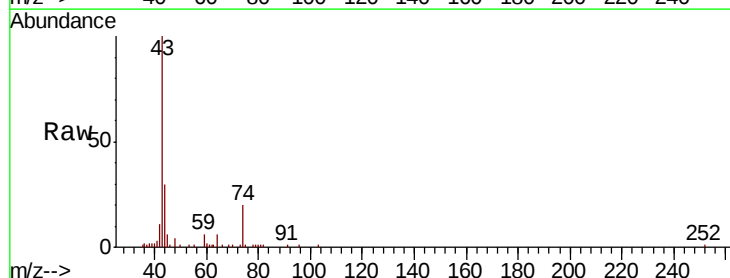
Acq: 02 Oct 2018 22:09

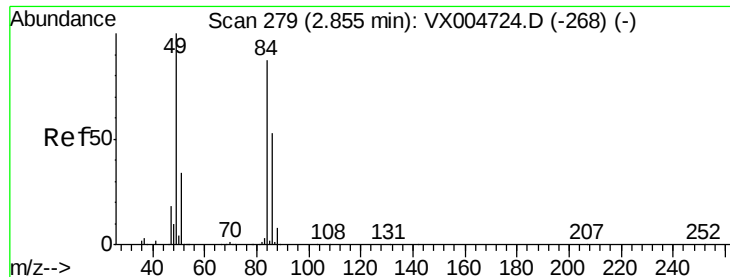
Tgt Ion: 43 Resp: 14163

Ion Ratio Lower Upper

43 100

74 20.8 17.8 26.8





#20

Methylene Chloride

Concen: 0.521 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#02

Tot Ion: 84 Resp: 3288

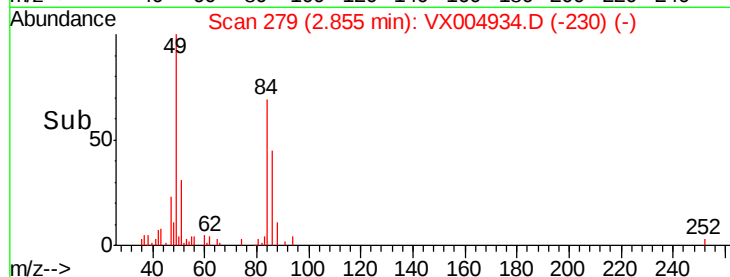
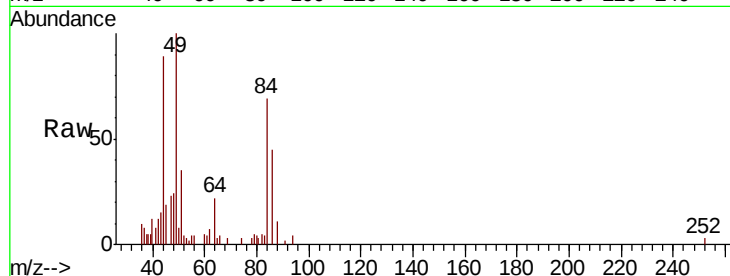
Ion Ratio Lower Upper

84 100

49 140.3 92.3 138.5#

51 50.5 31.8 47.6#

86 65.5 48.5 72.7

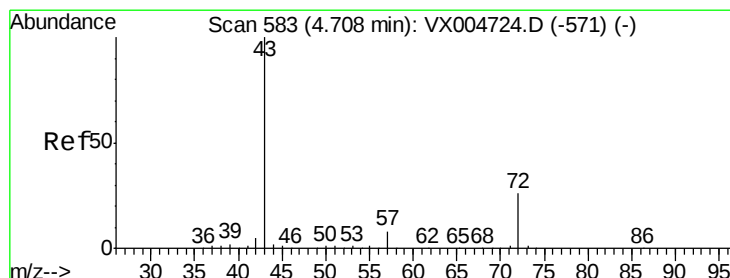
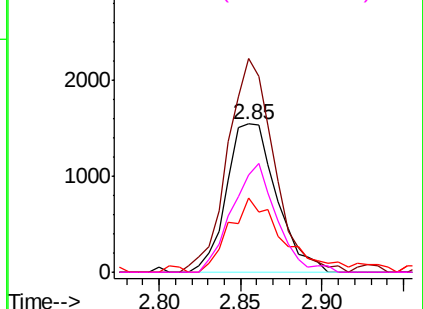


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.494 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX004934.D

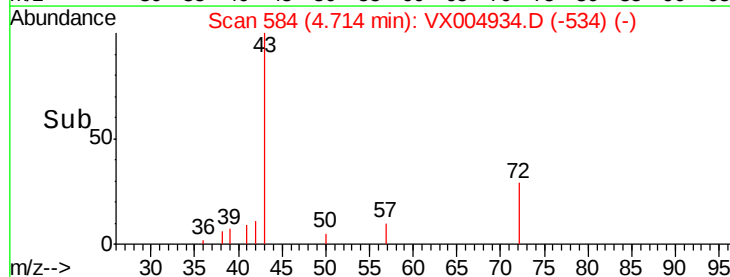
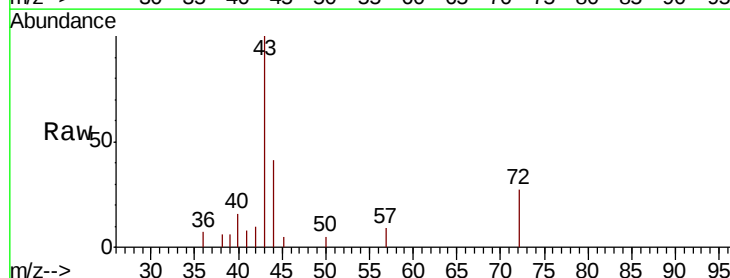
Acq: 02 Oct 2018 22:09

Tgt Ion: 43 Resp: 3685

Ion Ratio Lower Upper

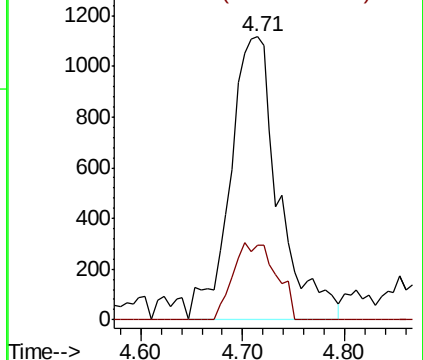
43 100

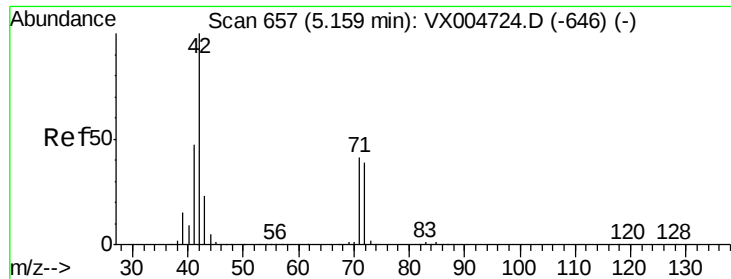
72 26.6 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 1.074 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#02

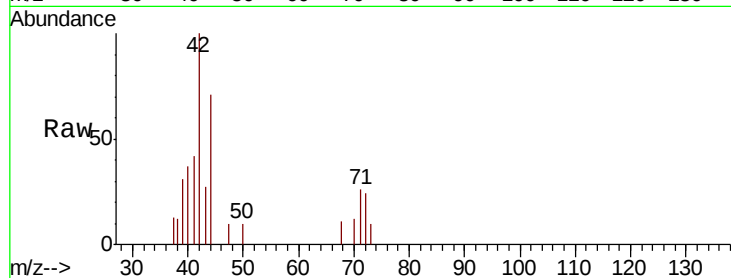
Tot Ion: 42 Resp: 1647

Ion Ratio Lower Upper

42 100

72 19.6 33.7 50.5#

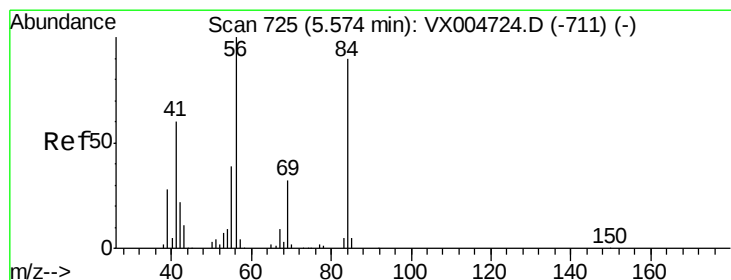
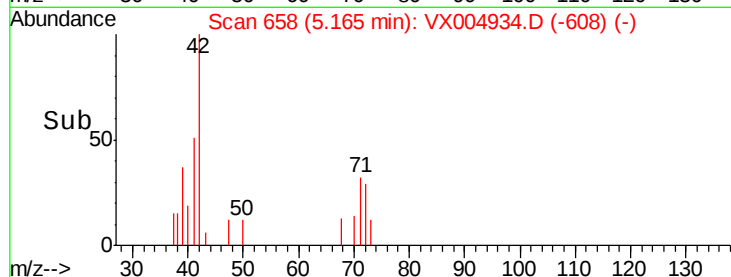
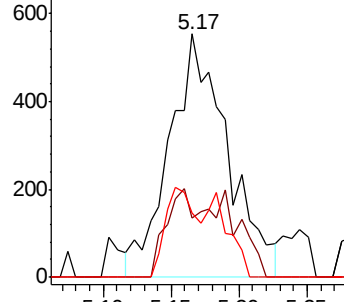
71 19.4 32.2 48.4#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.021 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

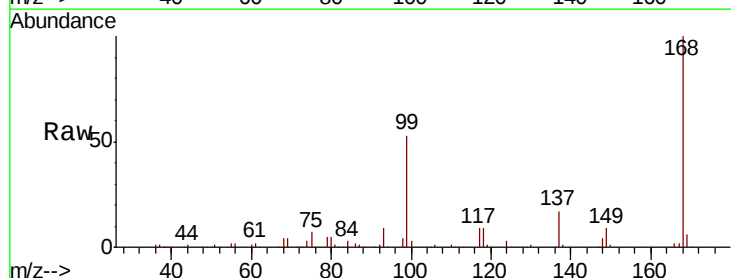
Tgt Ion: 56 Resp: 3725

Ion Ratio Lower Upper

56 100

69 195.2 25.9 38.9#

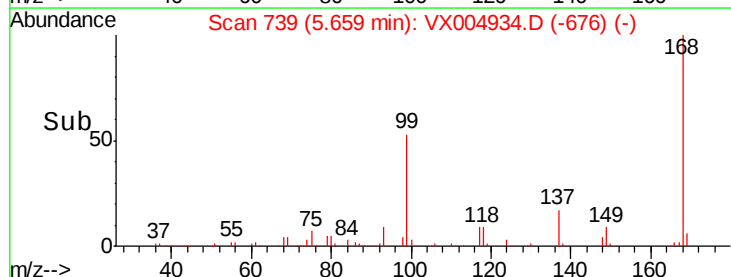
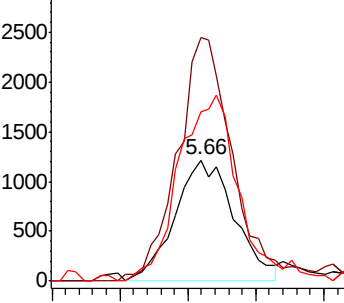
84 140.4 71.9 107.9#

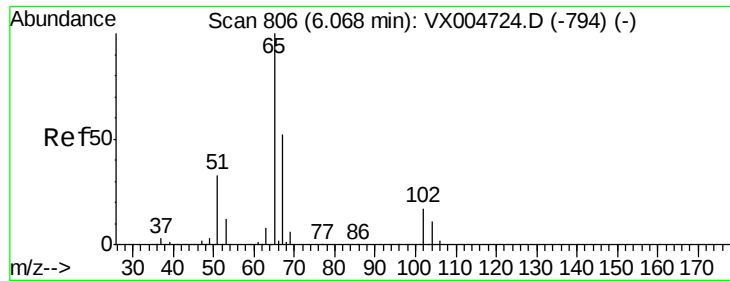


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 56.322 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

Instrument :

MSVOA_X

ClientSampleId :

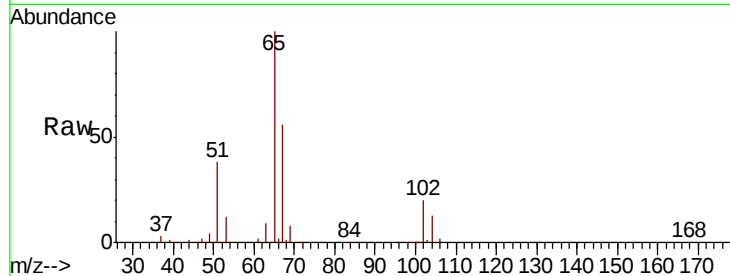
PB113401ZHE#02

Tot Ion: 65 Resp: 161478

Ion Ratio Lower Upper

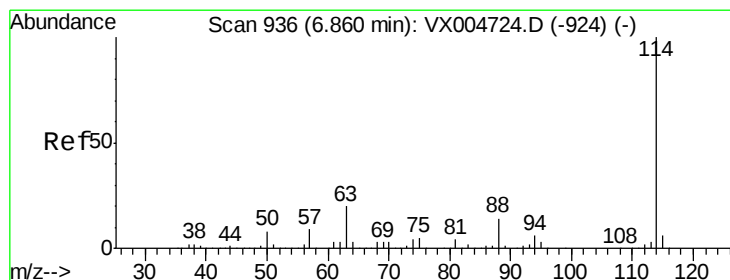
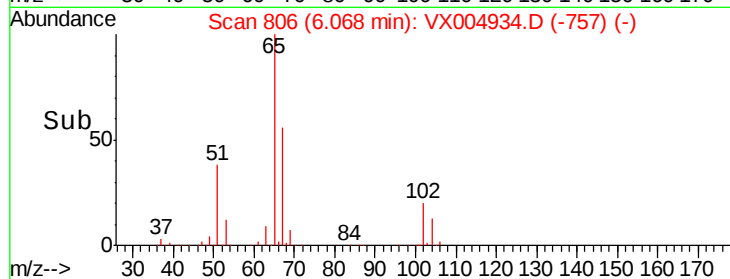
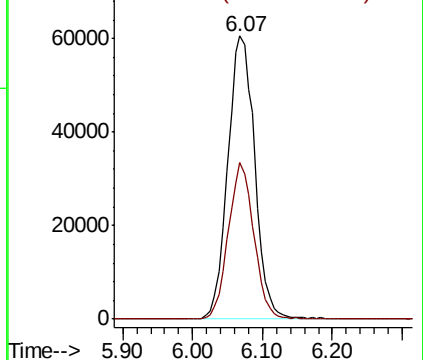
65 100

67 52.6 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

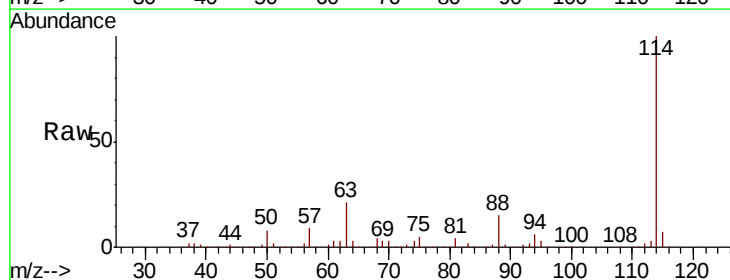
Tgt Ion: 114 Resp: 337202

Ion Ratio Lower Upper

114 100

63 21.1 0.0 39.8

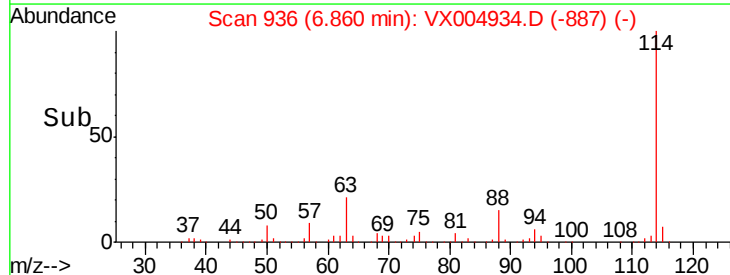
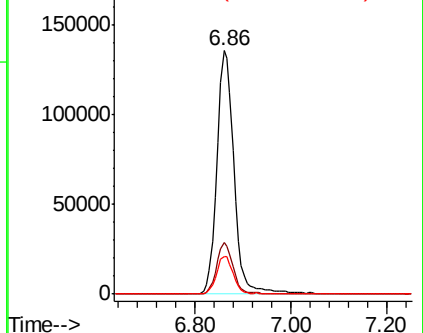
88 15.4 0.0 27.0

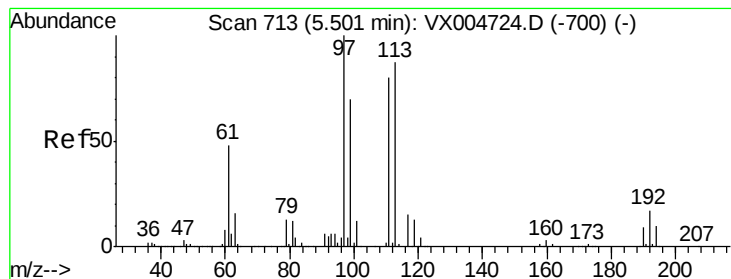


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.542 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#02

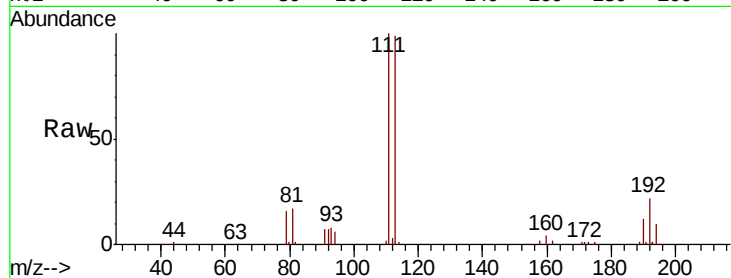
Tot Ion:113 Resp: 135866

Ion Ratio Lower Upper

113 100

111 102.4 77.0 115.4

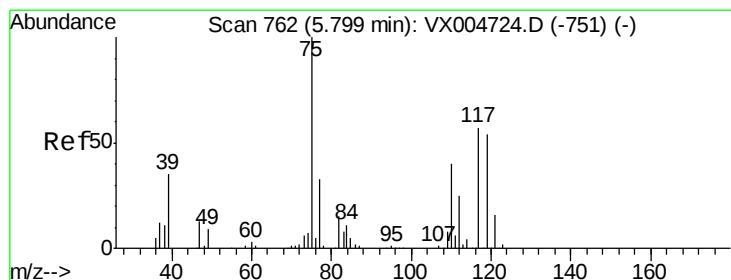
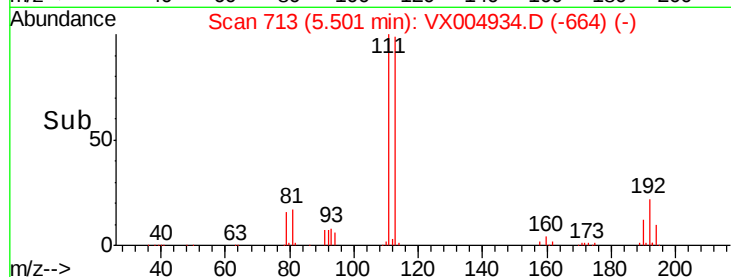
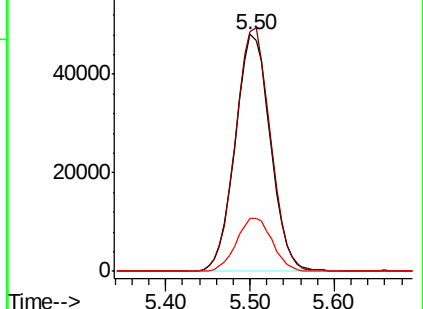
192 22.9 17.0 25.6



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: 3.455 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

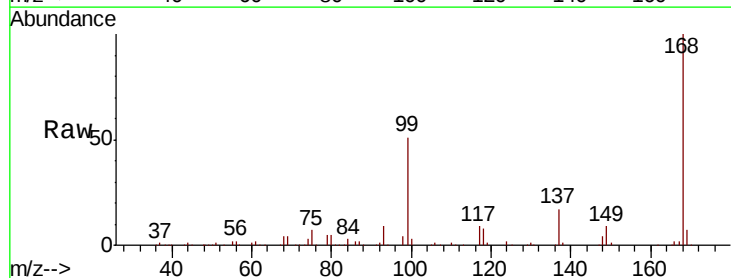
Tgt Ion: 75 Resp: 13471

Ion Ratio Lower Upper

75 100

110 10.5 20.0 59.9#

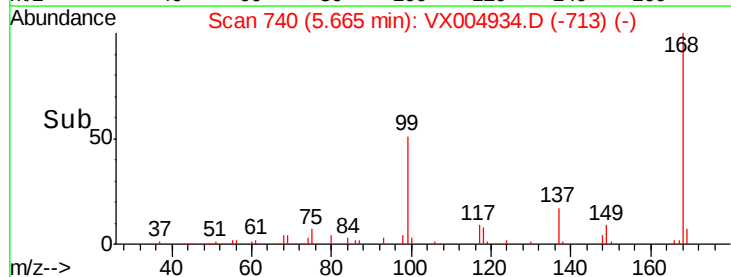
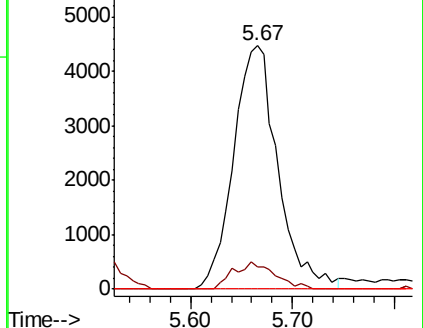
77 0.0 27.1 40.7#

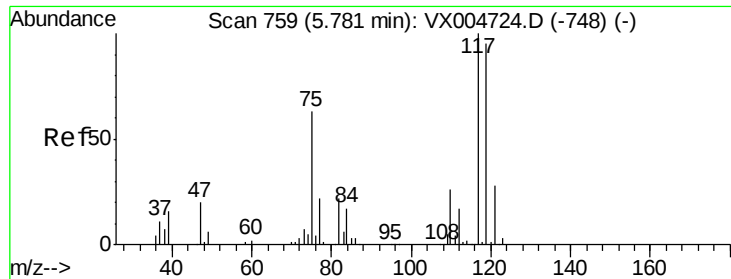


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 4.472 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.11 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#02

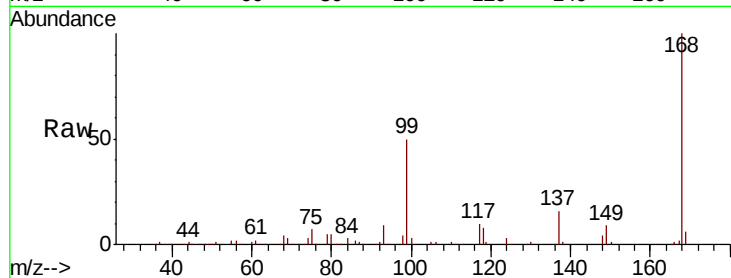
Tot Ion:117 Resp: 18330

Ion Ratio Lower Upper

117 100

119 5.6 75.2 112.8#

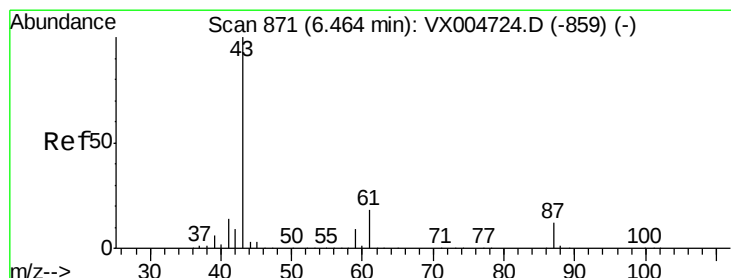
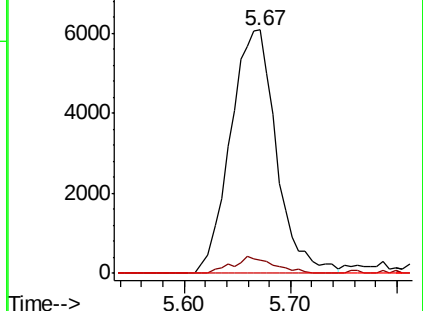
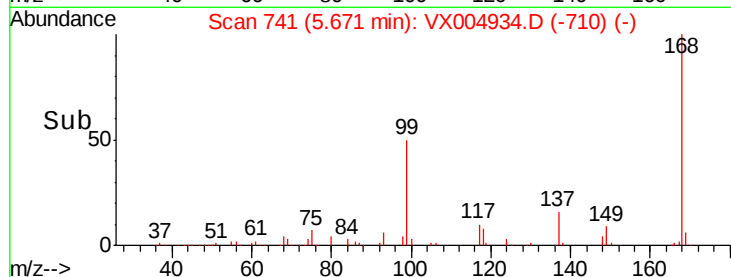
121 0.0 22.5 33.7#



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: 23.269 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.00 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

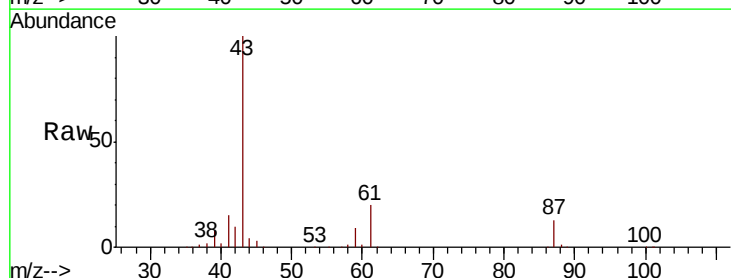
Tgt Ion: 43 Resp: 173827

Ion Ratio Lower Upper

43 100

61 19.1 14.2 21.4

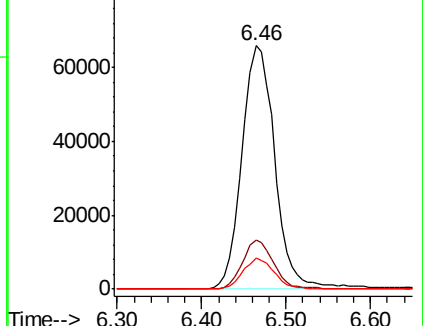
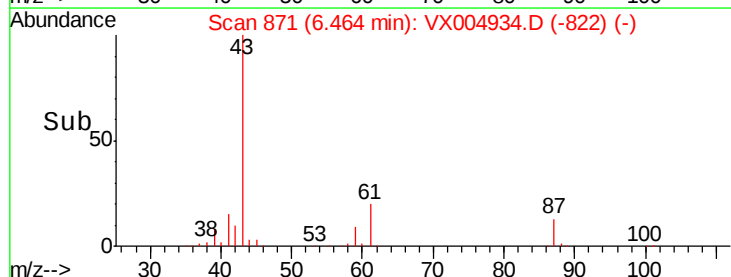
87 12.2 9.3 13.9

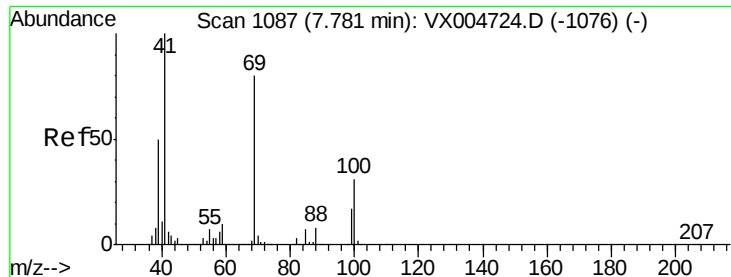


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

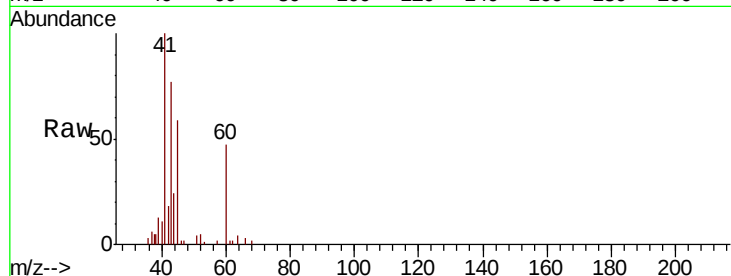




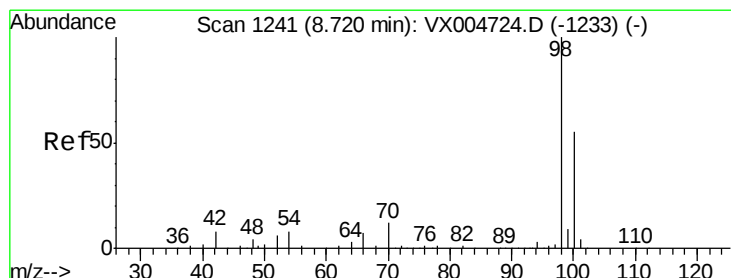
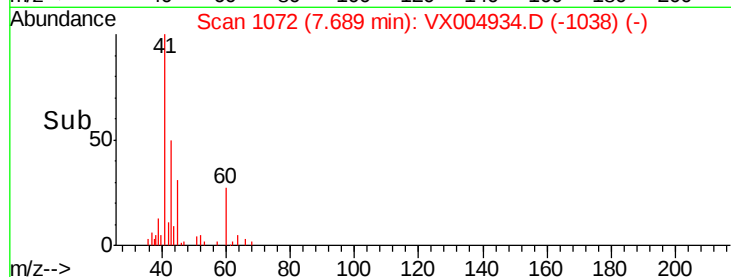
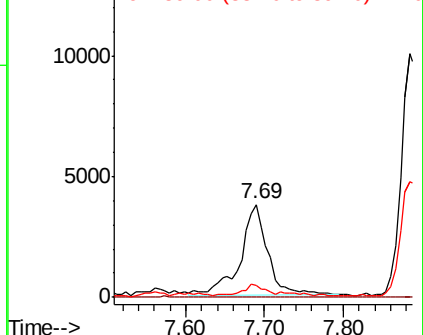
#48
Methvl methacrvlate
Concen: 2.665 ug/l
RT: 7.69 min Scan# 1072
Delta R.T. -0.09 min
Lab File: VX004934.D
Acq: 02 Oct 2018 22:09

Instrument :
MSVOA_X
ClientSampleId :
PB113401ZHE#02

Tot Ion: 41 Resp: 9035
Ion Ratio Lower Upper
41 100
69 0.0 63.8 95.6#
39 7.1 40.7 61.1#

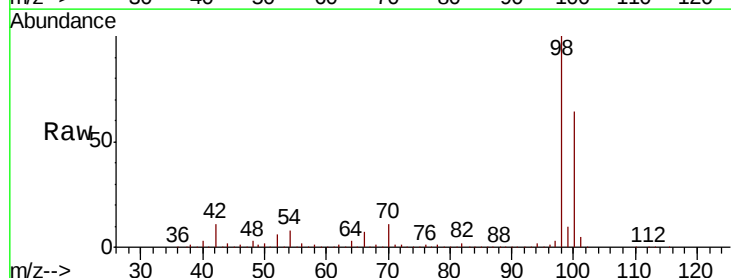


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0

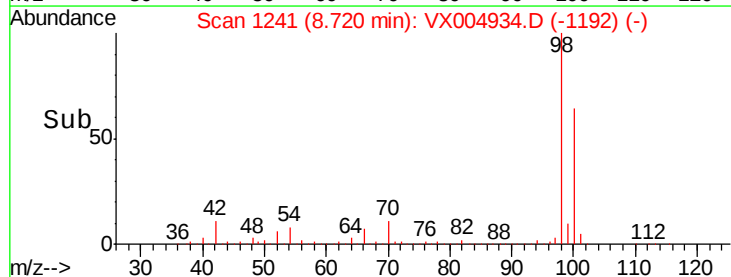
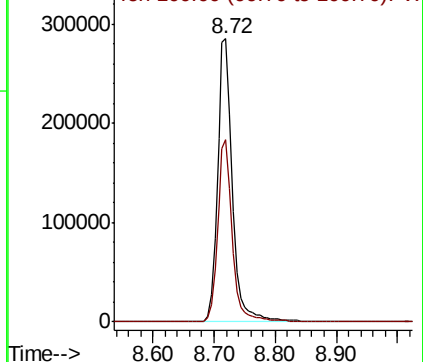


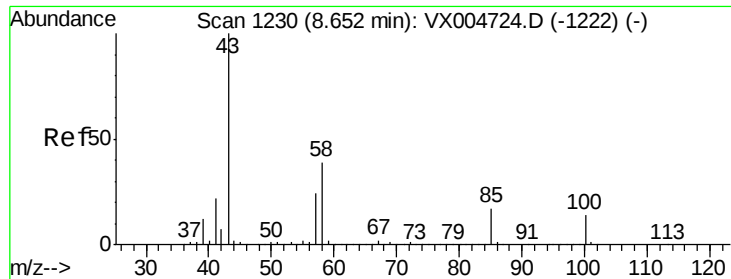
#50
Toluene-d8
Concen: 52.004 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.00 min
Lab File: VX004934.D
Acq: 02 Oct 2018 22:09

Tgt Ion: 98 Resp: 494086
Ion Ratio Lower Upper
98 100
100 63.1 51.9 77.9



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





#51

4-Methyl-2-Pentanone

Concen: 0.580 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. -0.03 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

Instrument :

MSVOA_X

ClientSampleId :

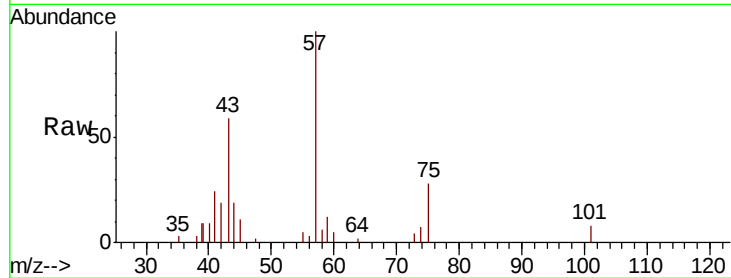
PB113401ZHE#02

Tot Ion: 43 Resp: 2726

Ion Ratio Lower Upper

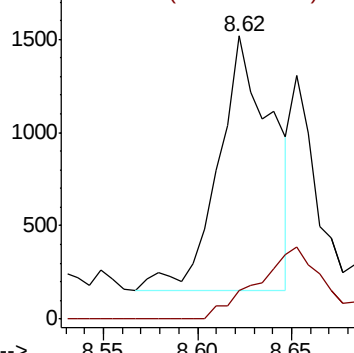
43 100

58 0.0 30.5 45.7#

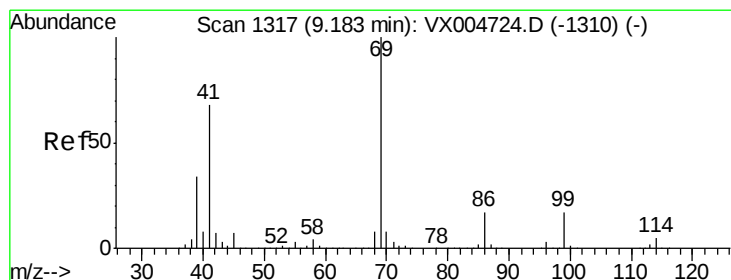
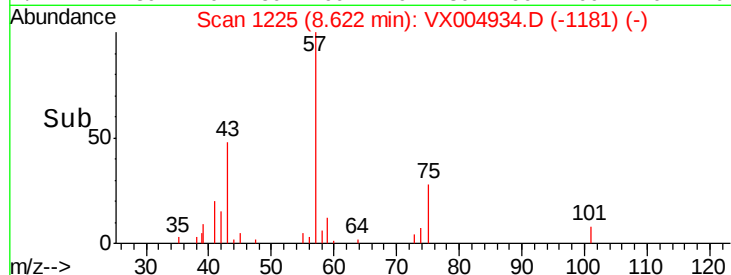


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#56

Ethyl methacrylate

Concen: 2.880 ug/l

RT: 9.30 min Scan# 1336

Delta R.T. 0.12 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

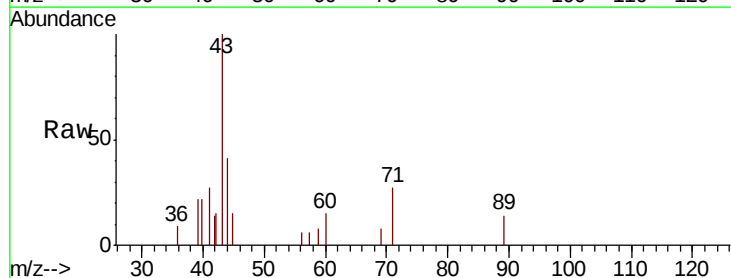
Tgt Ion: 69 Resp: 90

Ion Ratio Lower Upper

69 100

41 1012.2 56.9 85.3#

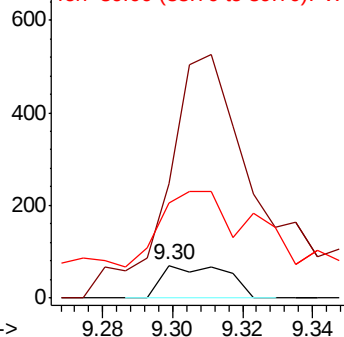
39 734.4 28.4 42.6#



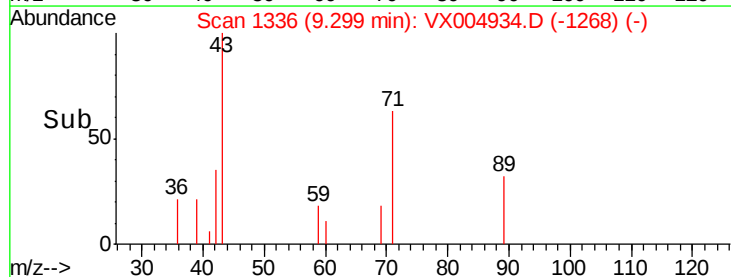
Abundance Ion 69.00 (68.70 to 69.70): VX0

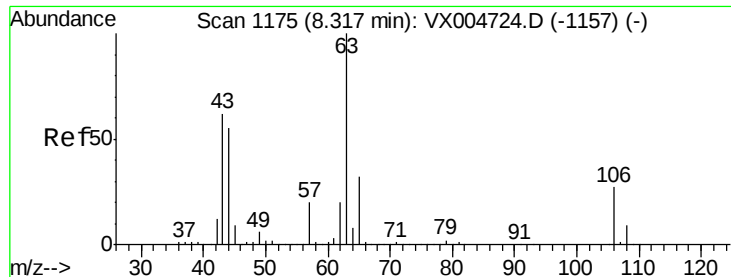
Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time-->

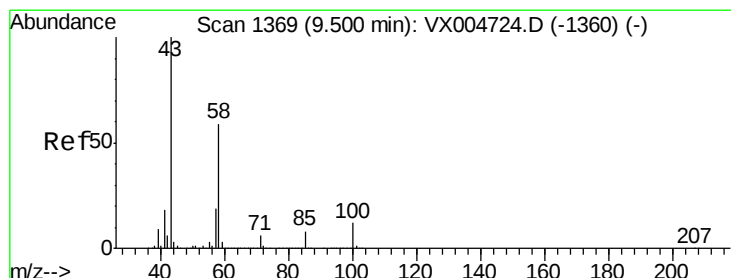
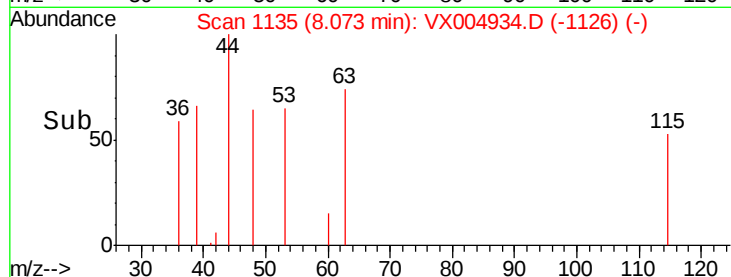
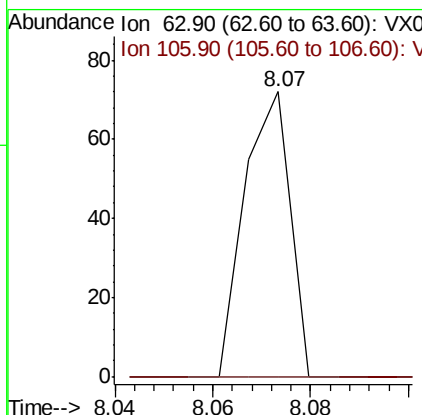
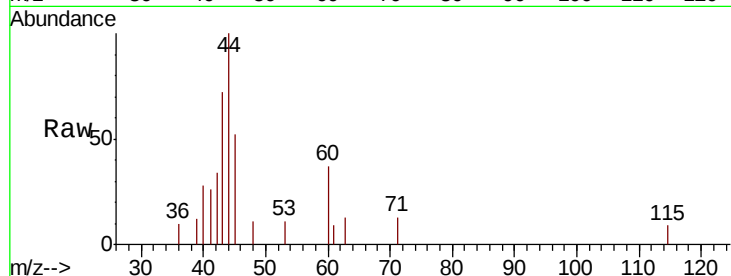




#58
 2-Chloroethyl Vinyl ether
 Concen: 14.259 ug/l
 RT: 8.07 min Scan# 1135
 Delta R.T. -0.24 min
 Lab File: VX004934.D
 Acq: 02 Oct 2018 22:09

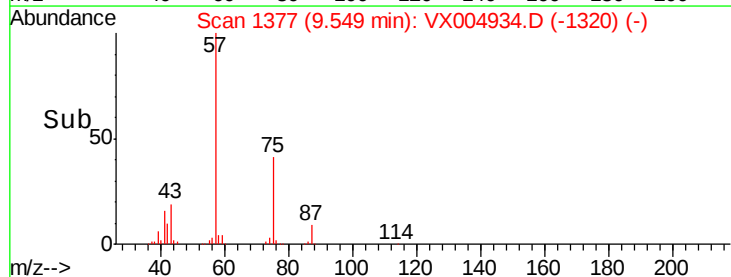
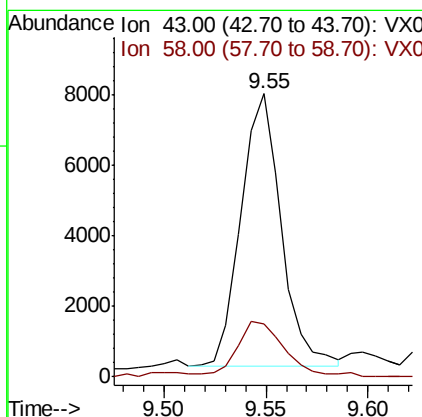
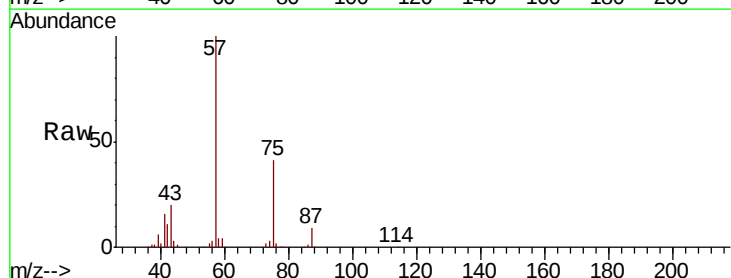
Instrument :
 MSVOA_X
 ClientSampleId :
 PB113401ZHE#02

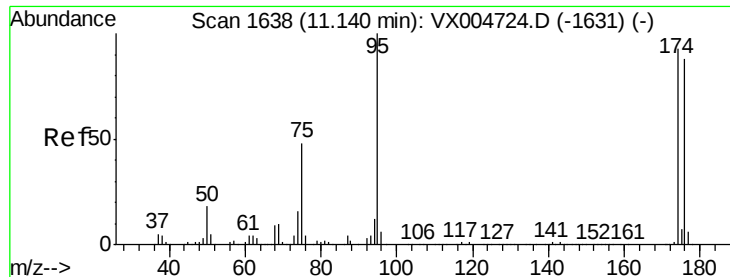
Tot Ion: 63 Resp: 46
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.0 31.6#



#59
 2-Hexanone
 Concen: 2.699 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.05 min
 Lab File: VX004934.D
 Acq: 02 Oct 2018 22:09

Tgt Ion: 43 Resp: 10580
 Ion Ratio Lower Upper
 43 100
 58 24.3 28.4 85.3#





#62

4-Bromofluorobenzene

Concen: 51.015 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#02

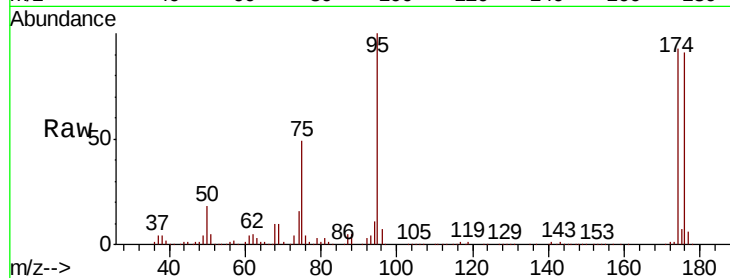
Tot Ion: 95 Resp: 174609

Ion Ratio Lower Upper

95 100

174 92.9 0.0 185.0

176 88.9 0.0 180.2

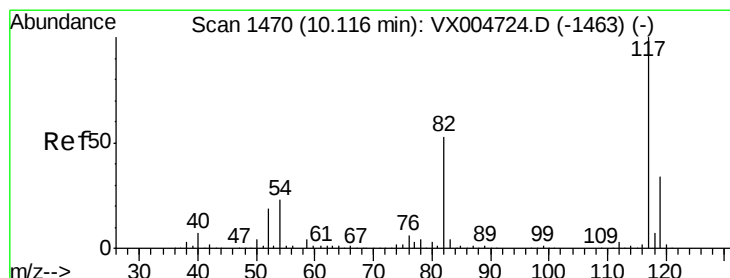
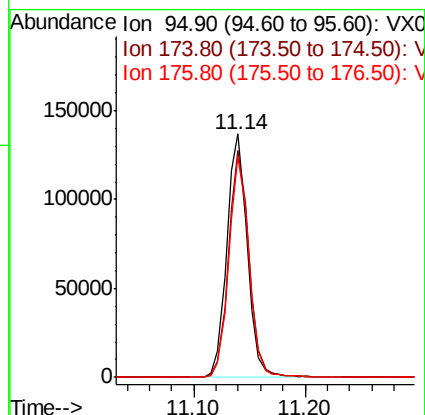
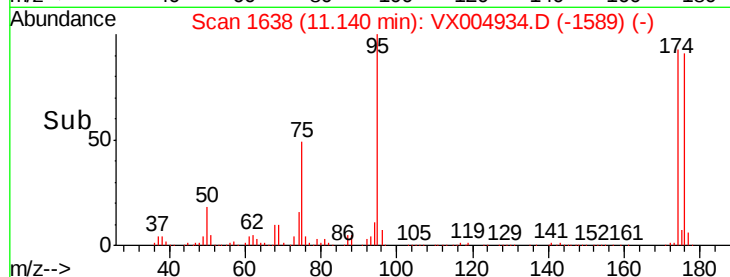


Abundance Ion 94.90 (94.60 to 95.60): VX004724.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX004724.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX004724.D (-1631) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

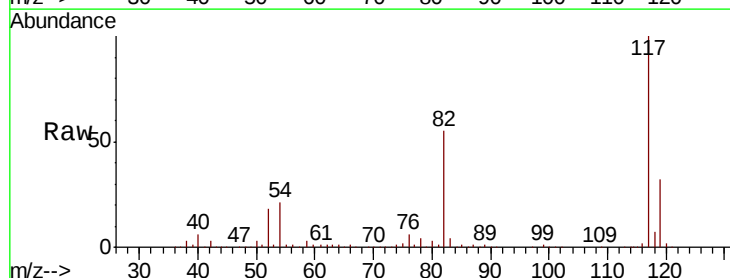
Tgt Ion: 117 Resp: 338323

Ion Ratio Lower Upper

117 100

82 55.4 42.2 63.4

119 31.9 27.4 41.0

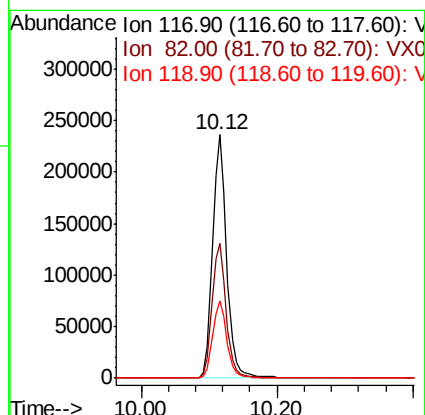
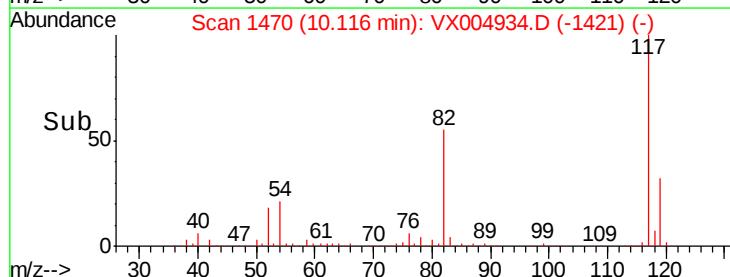


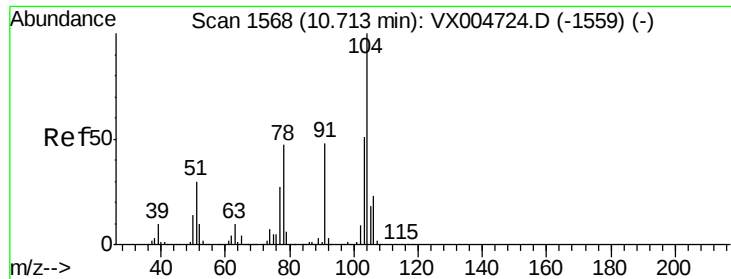
Abundance Ion 116.90 (116.60 to 117.60): VX004724.D (-1463) (-)

Ion 82.00 (81.70 to 82.70): VX004724.D (-1463) (-)

Ion 118.90 (118.60 to 119.60): VX004724.D (-1463) (-)

Time-->





#70

Stvrene

Concen: 2.180 ug/l

RT: 10.71 min Scan# 1567

Delta R.T. -0.01 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#02

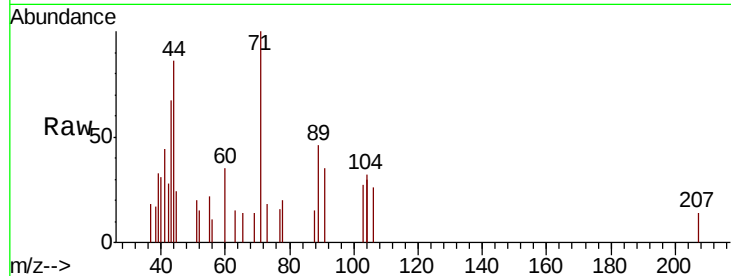
Tot Ion:104 Resp: 379

Ion Ratio Lower Upper

104 100

78 67.3 40.0 60.0#

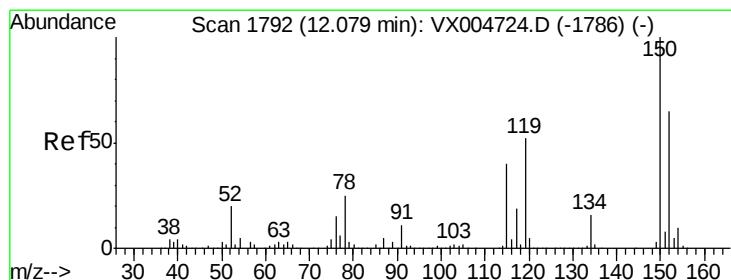
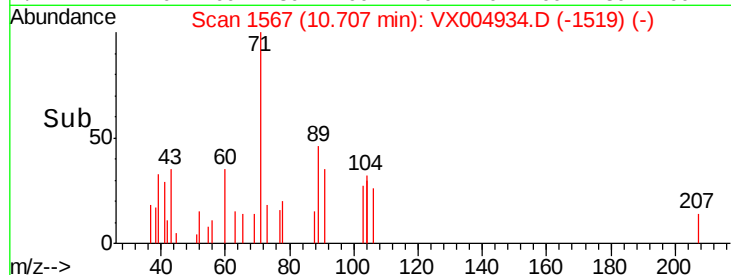
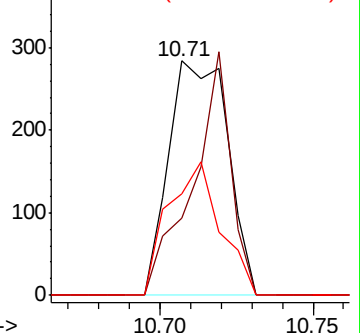
103 50.1 44.3 66.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VX0

Ion 103.00 (102.70 to 103.70): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

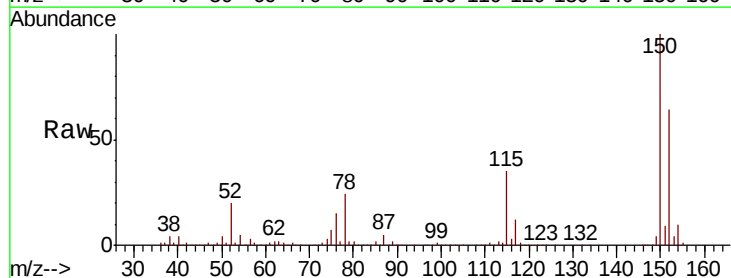
Tgt Ion:152 Resp: 182810

Ion Ratio Lower Upper

152 100

115 54.9 40.2 120.6

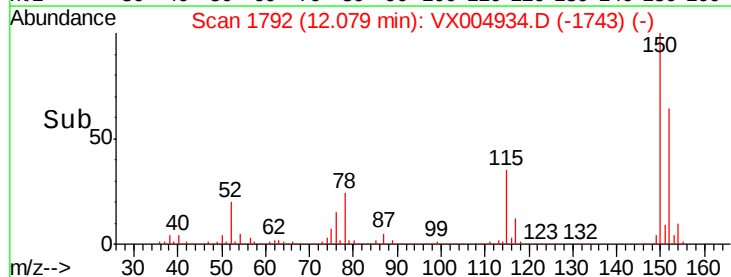
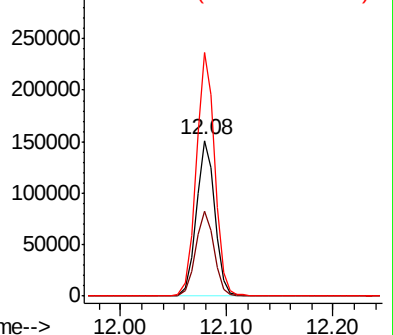
150 156.5 0.0 351.0

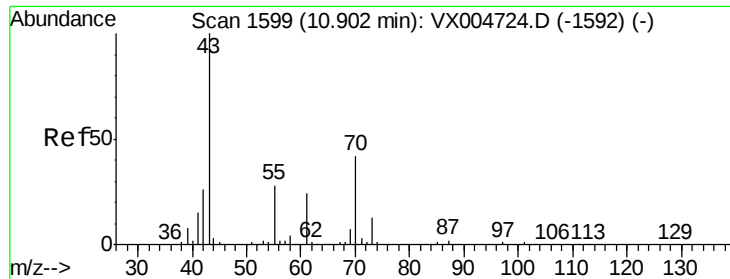


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.761 ug/l

RT: 10.89 min Scan# 1597

Delta R.T. -0.01 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#02

Tot Ion: 43 Resp: 87

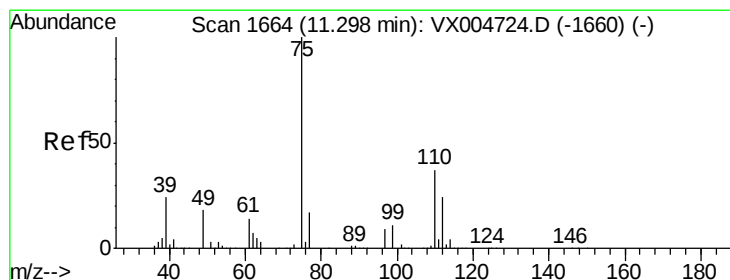
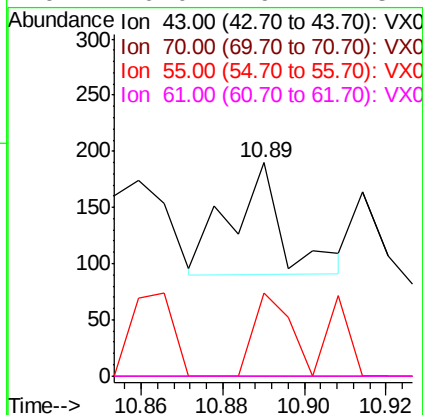
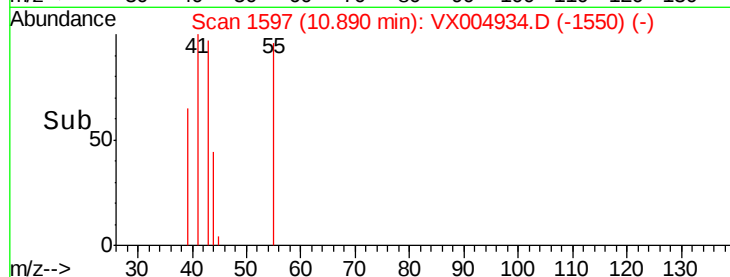
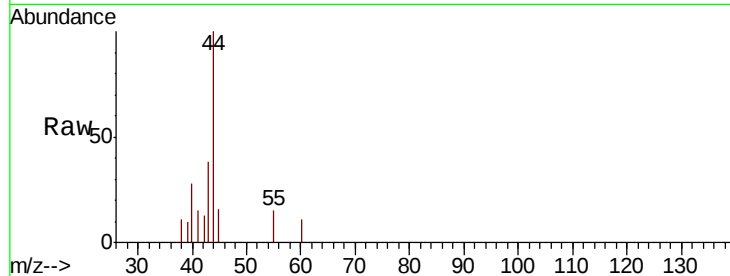
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 52.9 21.6 32.4#

61 0.0 19.1 28.7#



#76

1,2,3-Trichloropropane

Concen: 21.052 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004934.D

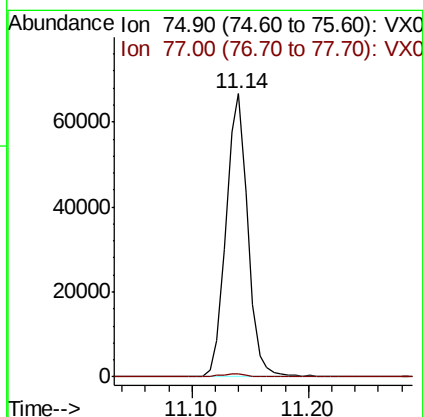
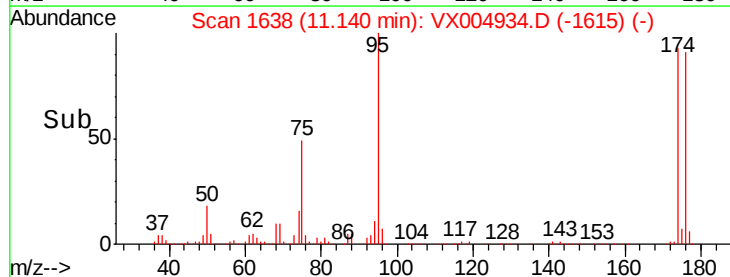
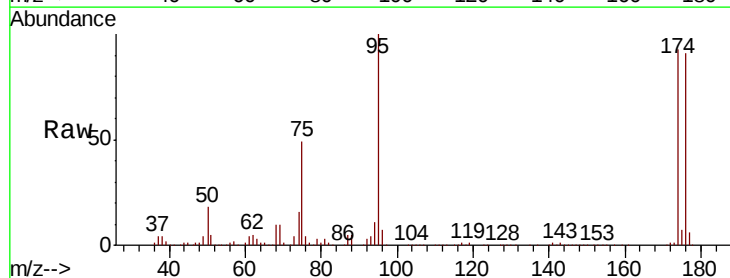
Acq: 02 Oct 2018 22:09

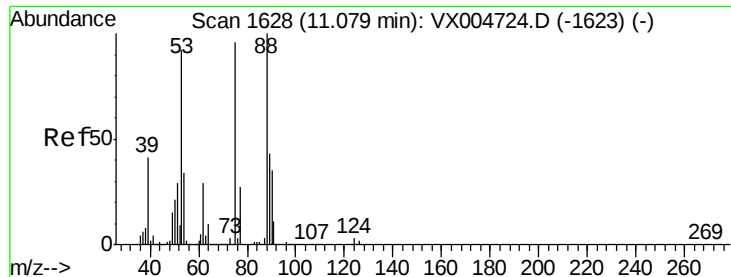
Tgt Ion: 75 Resp: 86258

Ion Ratio Lower Upper

75 100

77 1.5 21.4 64.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 57.121 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

Instrument :

MSVOA_X

ClientSampleId :

PB113401ZHE#02

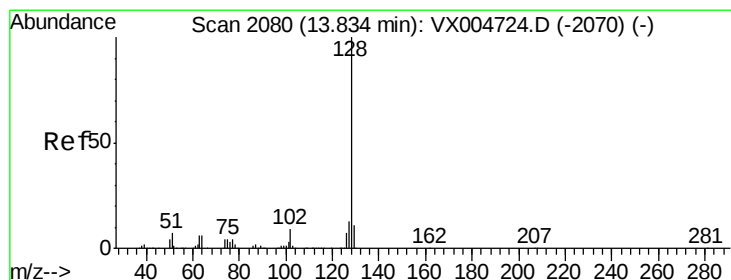
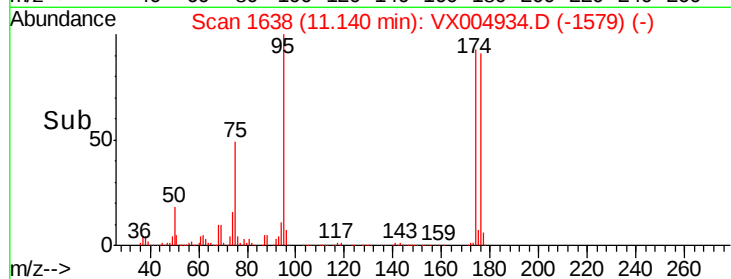
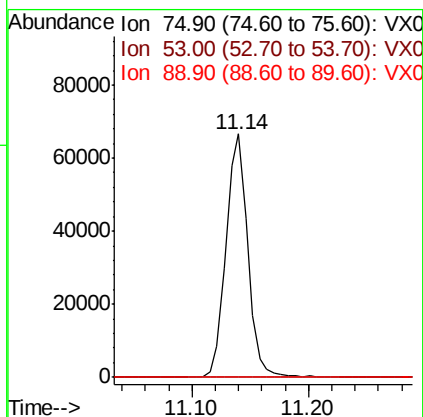
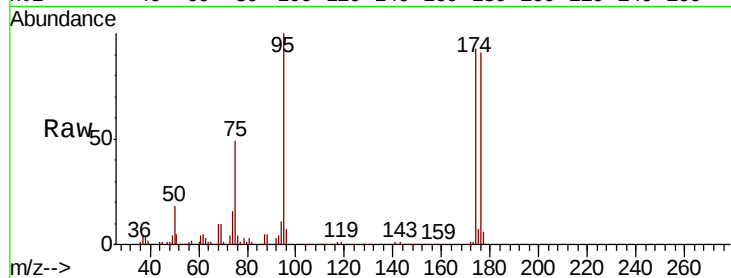
Tot Ion: 75 Resp: 86258

Ion Ratio Lower Upper

75 100

53 0.4 80.2 120.4#

89 0.0 37.1 55.7#



#95

Naphthalene

Concen: 0.769 ug/l

RT: 13.84 min Scan# 2081

Delta R.T. 0.01 min

Lab File: VX004934.D

Acq: 02 Oct 2018 22:09

Tgt Ion: 128 Resp: 768

Ion Ratio Lower Upper

128 100

127 21.4 10.4 15.6#

129 6.9 8.7 13.1#

