

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032319\
 Data File : VX008373.D
 Acq On : 24 Mar 2019 00:22
 Operator : JC/SP
 Sample : K1900-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW309D-20190313

Quant Time: Mar 25 08:06:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 15:27:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	223008	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	383482	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	325578	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	132104	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	163946	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	
35) Dibromofluoromethane	5.50	113	119393	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	
50) Toluene-d8	8.71	98	480116	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
62) 4-Bromofluorobenzene	11.13	95	156535	43.38	ug/l	0.00
Spiked Amount			Recovery	=	86.76%	

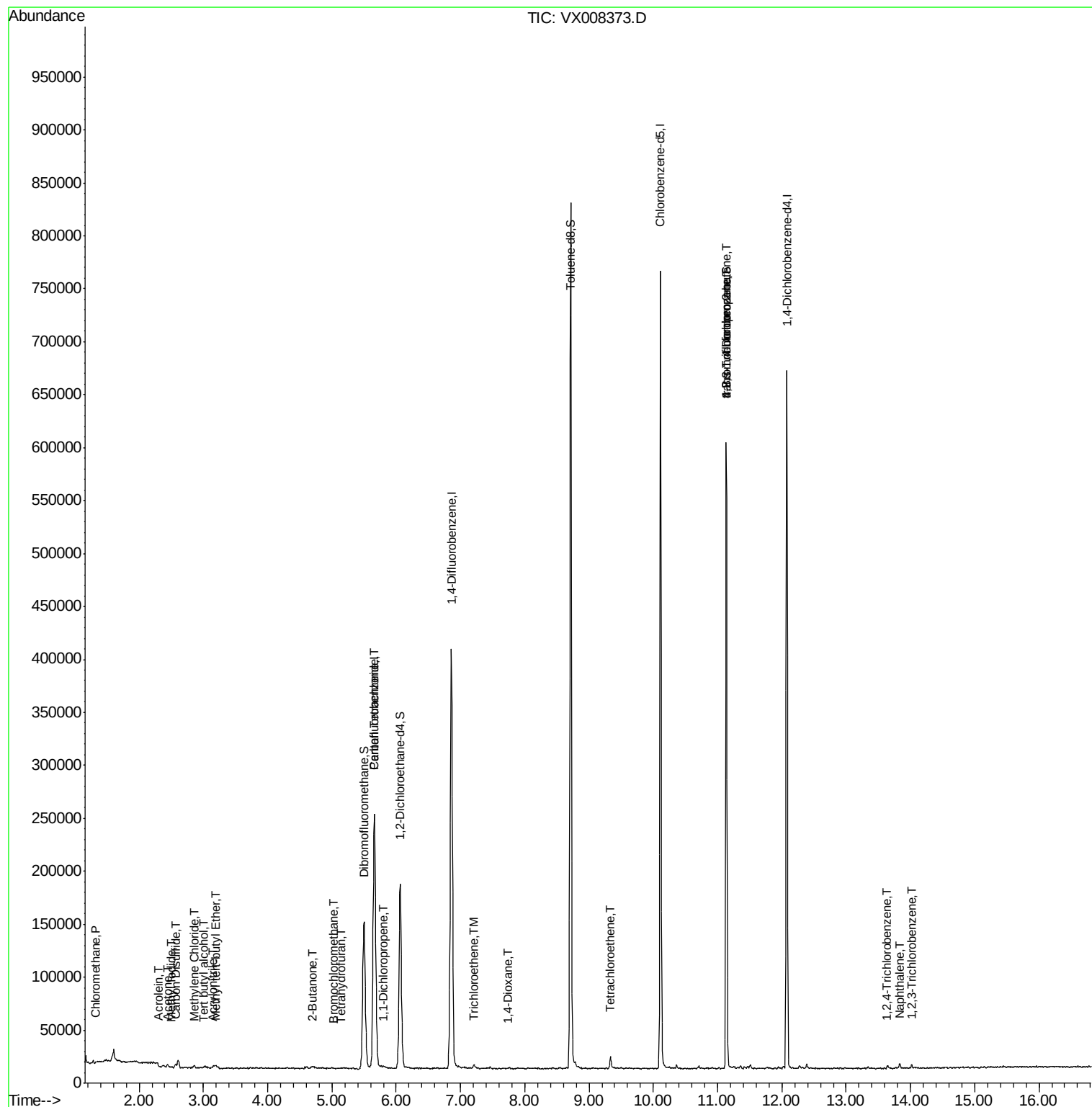
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	861	0.230	ug/l	96
10) Methyl Iodide	2.51	142	925	0.296	ug/l	96
11) Tert butyl alcohol	3.01	59	1364	1.800	ug/l #	80
13) Acrolein	2.30	56	517	0.799	ug/l #	51
15) Acrylonitrile	3.15	53	1185	0.611	ug/l	87
16) Acetone	2.45	43	3755	2.209	ug/l #	86
17) Carbon Disulfide	2.57	76	3767	0.464	ug/l #	86
19) Methyl tert-butyl Ether	3.20	73	2383	0.260	ug/l	99
20) Methylene Chloride	2.86	84	1049	0.343	ug/l #	84
25) 2-Butanone	4.70	43	1244	0.444	ug/l #	82
28) Bromochloromethane	5.03	49	561	0.201	ug/l #	35
29) Tetrahydrofuran	5.14	42	629	0.338	ug/l #	47
36) 1,1-Dichloropropene	5.81	75	945	0.241	ug/l #	62
38) Carbon Tetrachloride	5.67	117	22261	6.627	ug/l #	16
44) Trichloroethene	7.21	130	1401	0.506	ug/l	86
49) 1,4-Dioxane	7.73	88	41	0.488	ug/l #	1
64) Tetrachloroethene	9.33	164	1956	0.919	ug/l	89
76) 1,2,3-Trichloropropane	11.13	75	80535	23.291	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	80535	66.373	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.64	180	684	0.226	ug/l	94
95) Naphthalene	13.83	128	2665	0.251	ug/l #	96
96) 1,2,3-Trichlorobenzene	14.02	180	672	0.220	ug/l	92

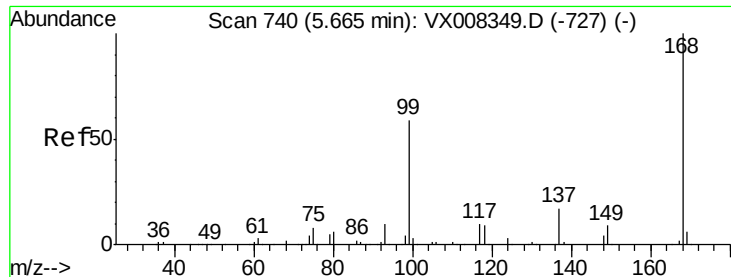
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008373.D

Acq: 24 Mar 2019 00:22

Instrument :

MSVOA_X

ClientSampleId :

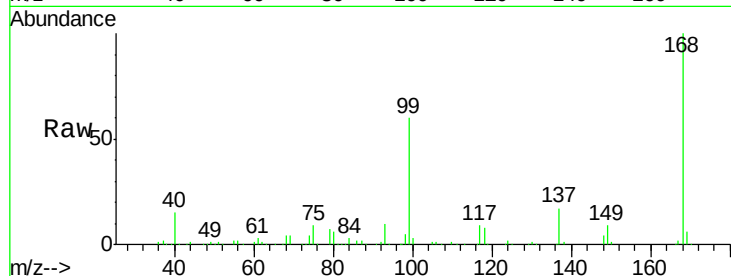
BPS1-TT-MW309D-20190313

Tot Ion:168 Resp: 223008

Ion Ratio Lower Upper

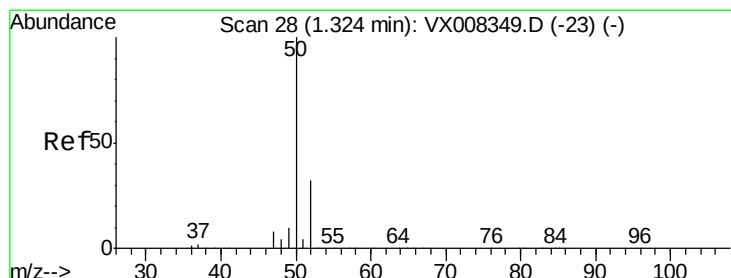
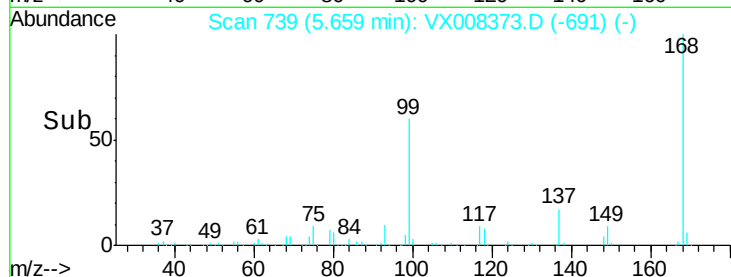
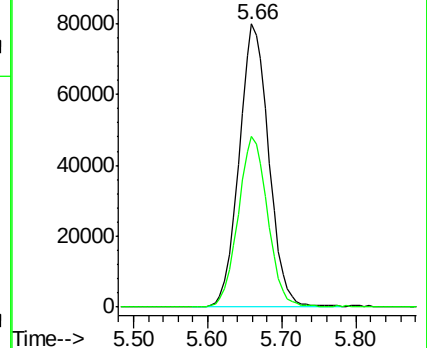
168 100

99 60.1 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.230 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008373.D

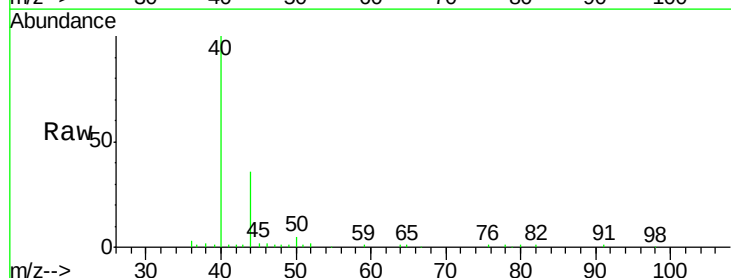
Acq: 24 Mar 2019 00:22

Tgt Ion: 50 Resp: 861

Ion Ratio Lower Upper

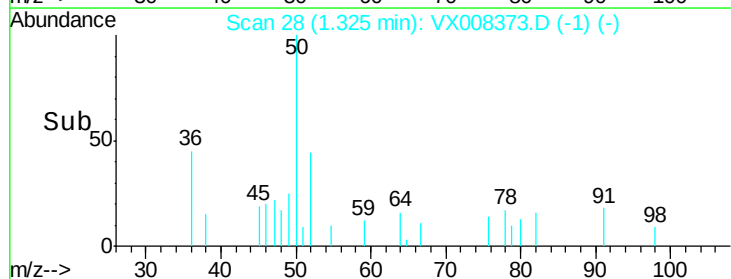
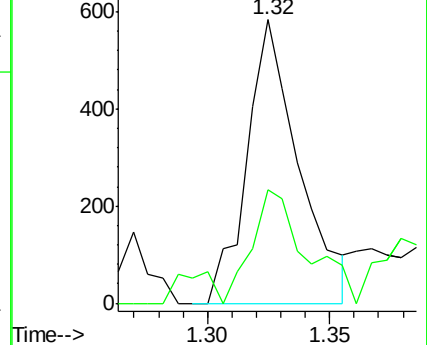
50 100

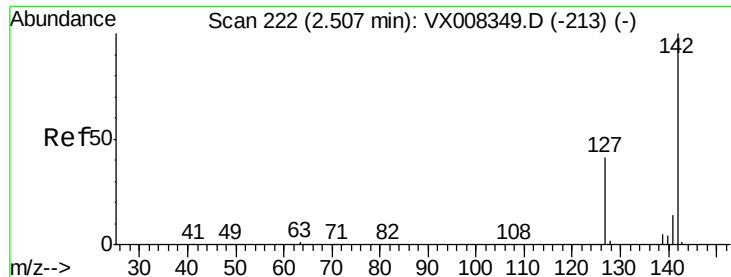
52 31.0 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

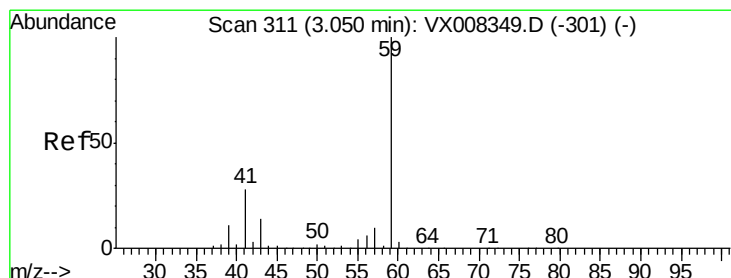
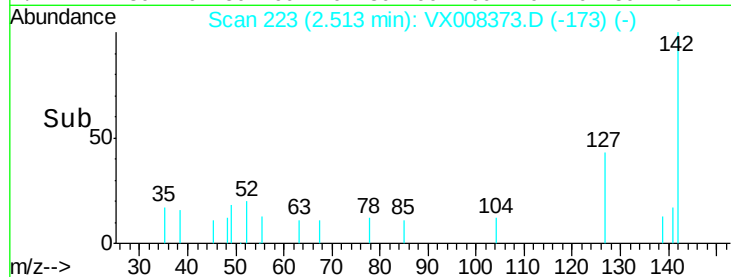
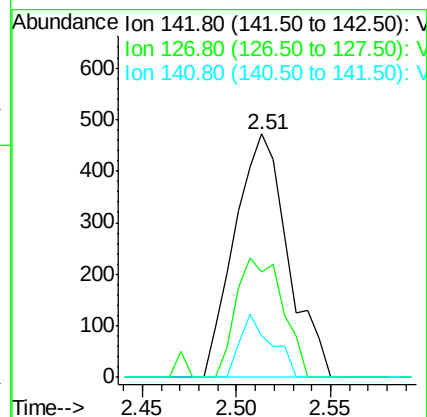
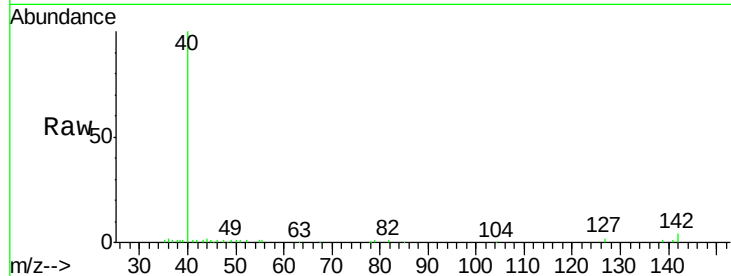




#10
Methvl Iodide
Concen: 0.296 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008373.D
Acq: 24 Mar 2019 00:22

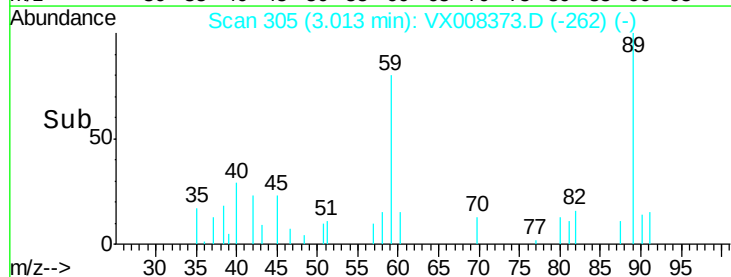
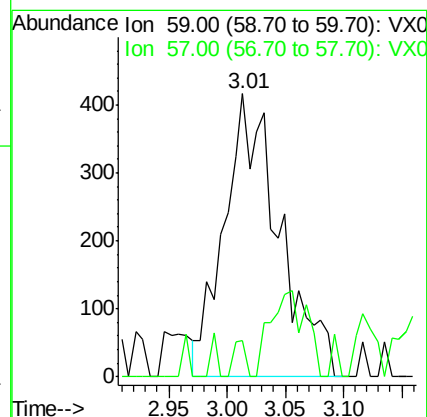
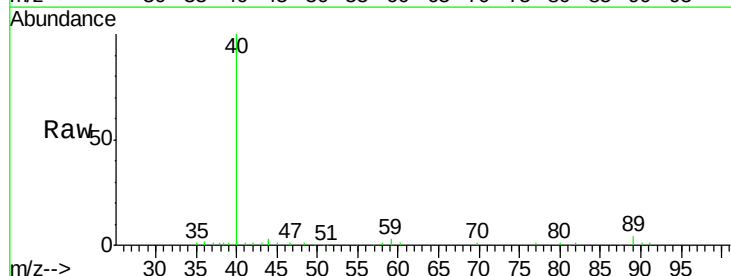
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW309D-20190313

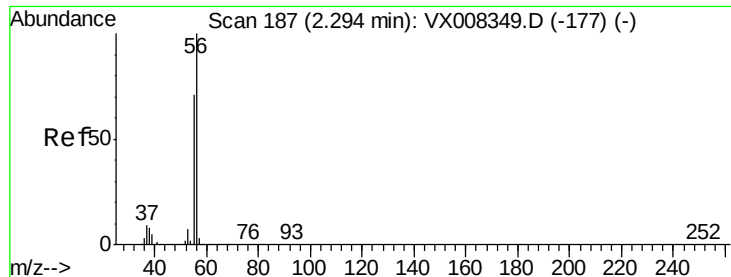
Tot Ion:142 Resp: 925
Ion Ratio Lower Upper
142 100
127 43.0 32.1 48.1
141 15.4 11.4 17.2



#11
Tert butyl alcohol
Concen: 1.800 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX008373.D
Acq: 24 Mar 2019 00:22

Tgt Ion: 59 Resp: 1364
Ion Ratio Lower Upper
59 100
57 2.8 8.2 12.2#





#13

Acrolein

Concen: 0.799 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX008373.D

Acq: 24 Mar 2019 00:22

Instrument :

MSVOA_X

ClientSampleId :

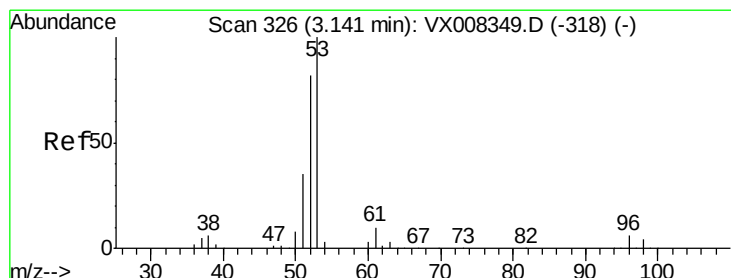
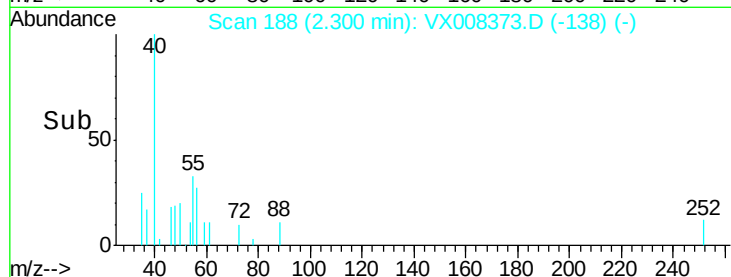
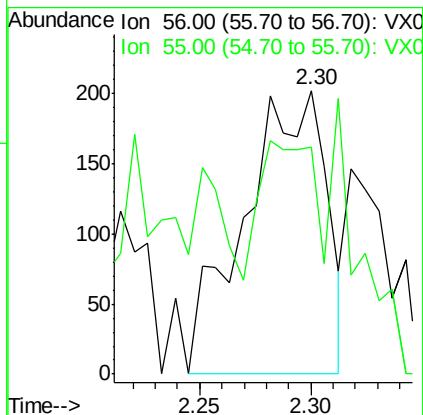
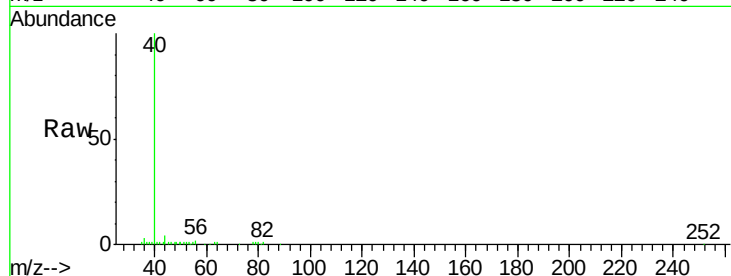
BPS1-TT-MW309D-20190313

Tot Ion: 56 Resp: 517

Ion Ratio Lower Upper

56 100

55 31.7 57.8 86.6#



#15

Acrylonitrile

Concen: 0.611 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX008373.D

Acq: 24 Mar 2019 00:22

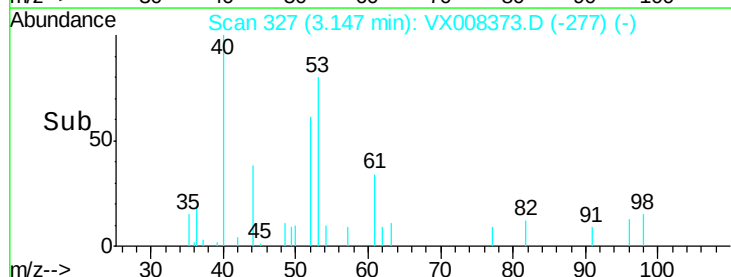
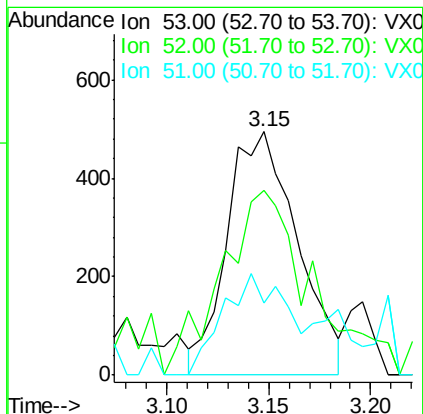
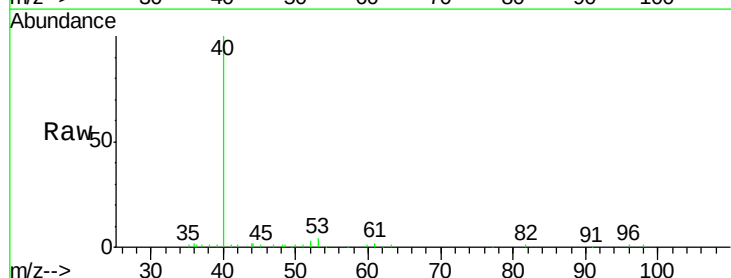
Tgt Ion: 53 Resp: 1185

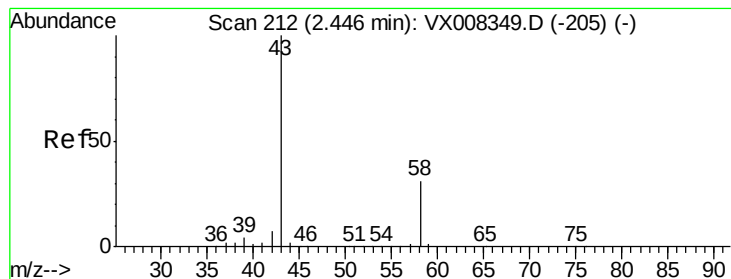
Ion Ratio Lower Upper

53 100

52 97.8 66.0 99.0

51 37.0 28.0 42.0





#16

Acetone

Concen: 2.209 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX008373.D

Acq: 24 Mar 2019 00:22

Instrument :

MSVOA_X

ClientSampleId :

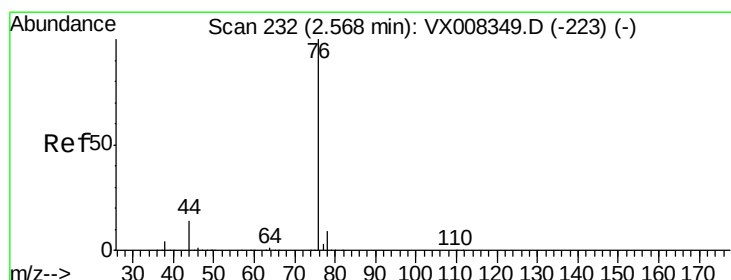
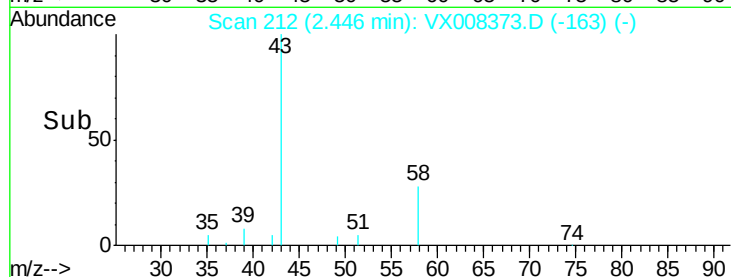
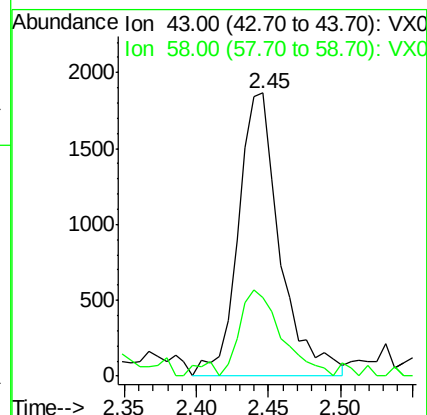
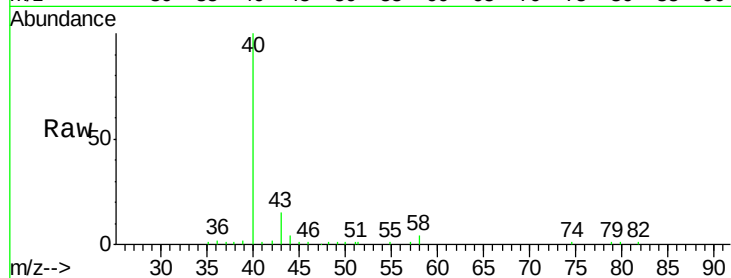
BPS1-TT-MW309D-20190313

Tot Ion: 43 Resp: 3755

Ion Ratio Lower Upper

43 100

58 24.3 25.5 38.3#



#17

Carbon Disulfide

Concen: 0.464 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008373.D

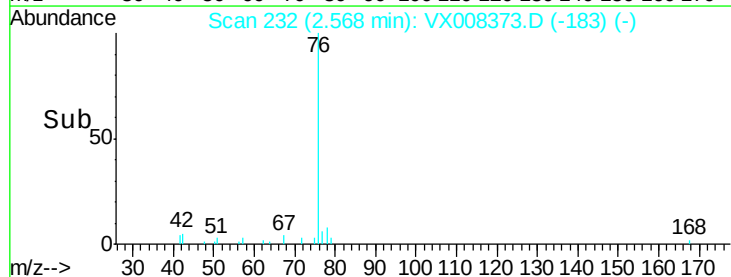
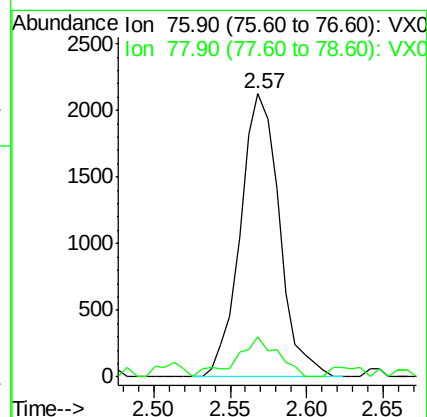
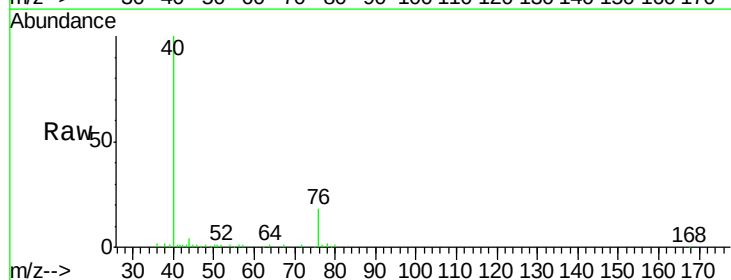
Acq: 24 Mar 2019 00:22

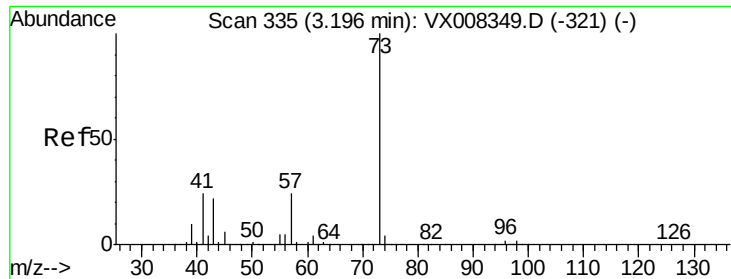
Tgt Ion: 76 Resp: 3767

Ion Ratio Lower Upper

76 100

78 14.0 7.2 10.8#



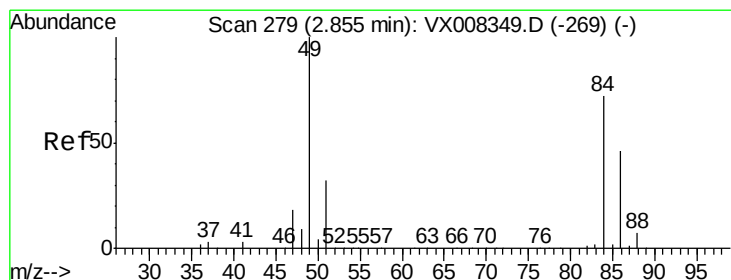
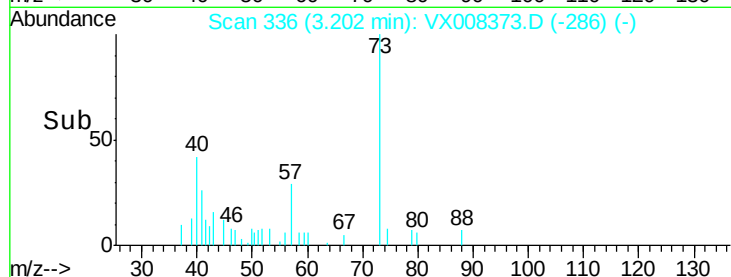
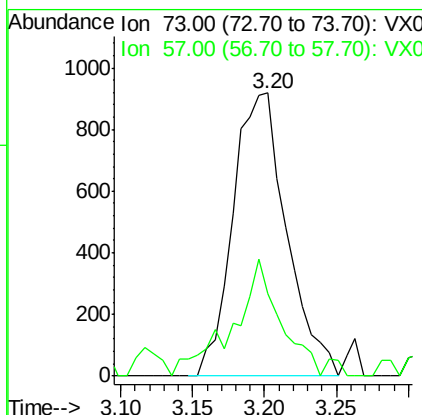
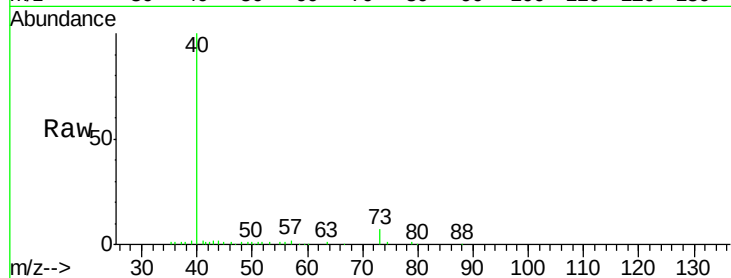


#19

Methyl tert-butyl Ether
 Concen: 0.260 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. 0.01 min
 Lab File: VX008373.D
 Acq: 24 Mar 2019 00:22

Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW309D-20190313

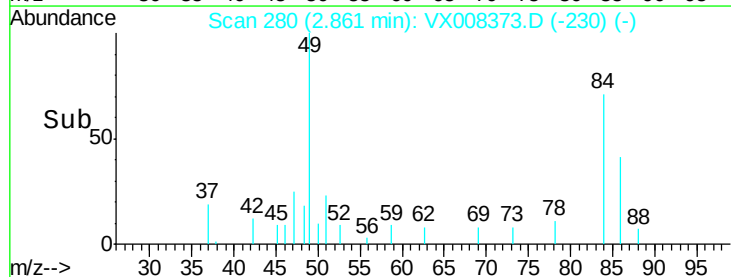
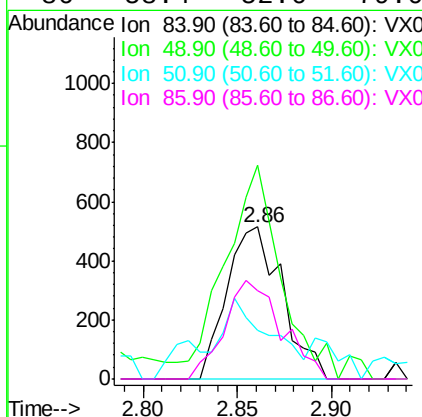
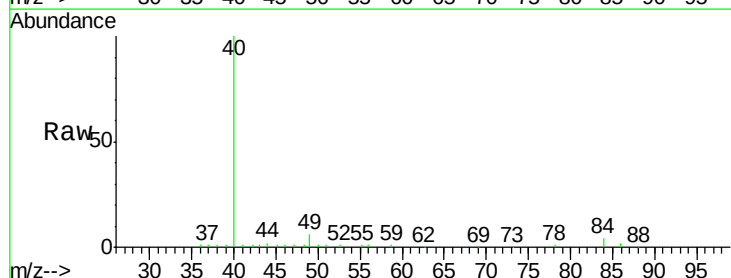
Tot Ion: 73 Resp: 2383
 Ion Ratio Lower Upper
 73 100
 57 23.2 18.2 27.4

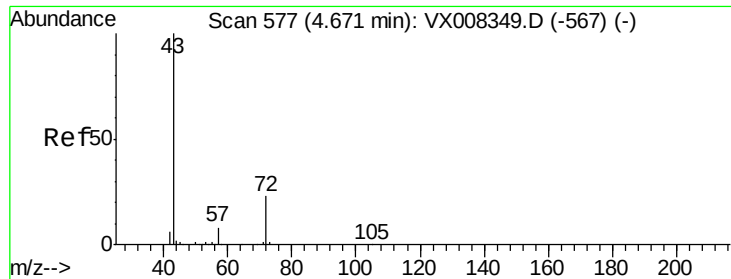


#20

Methylene Chloride
 Concen: 0.343 ug/l
 RT: 2.86 min Scan# 280
 Delta R.T. 0.01 min
 Lab File: VX008373.D
 Acq: 24 Mar 2019 00:22

Tgt Ion: 84 Resp: 1049
 Ion Ratio Lower Upper
 84 100
 49 140.7 99.3 148.9
 51 20.2 31.3 46.9#
 86 58.4 52.6 79.0





#25

2-Butanone

Concen: 0.444 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.02 min

Lab File: VX008373.D

Acq: 24 Mar 2019 00:22

Instrument :

MSVOA_X

ClientSampleId :

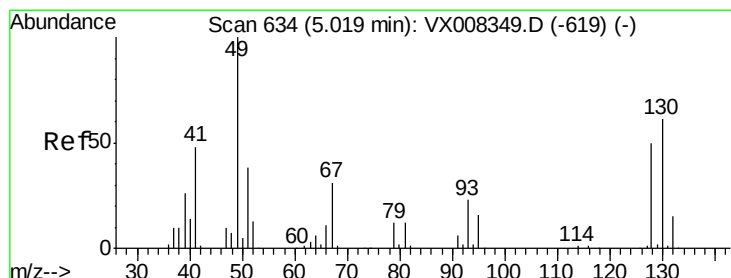
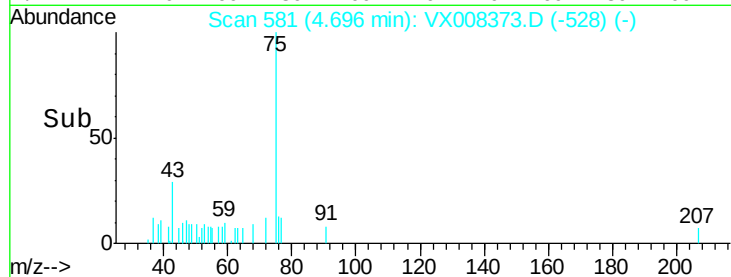
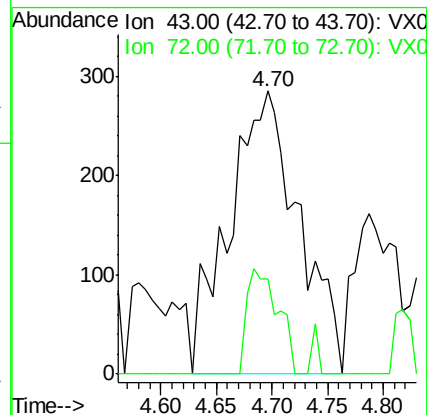
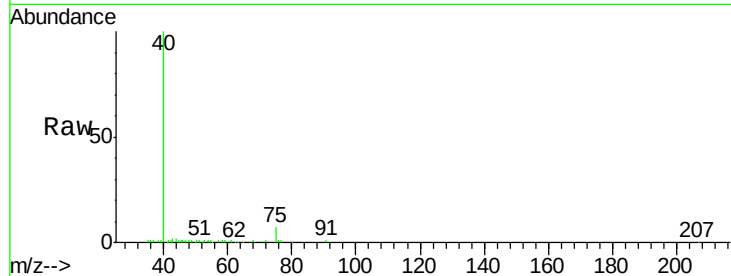
BPS1-TT-MW309D-20190313

Tot Ion: 43 Resp: 1244

Ion Ratio Lower Upper

43 100

72 33.7 19.9 29.9#



#28

Bromochloromethane

Concen: 0.201 ug/l

RT: 5.03 min Scan# 635

Delta R.T. 0.01 min

Lab File: VX008373.D

Acq: 24 Mar 2019 00:22

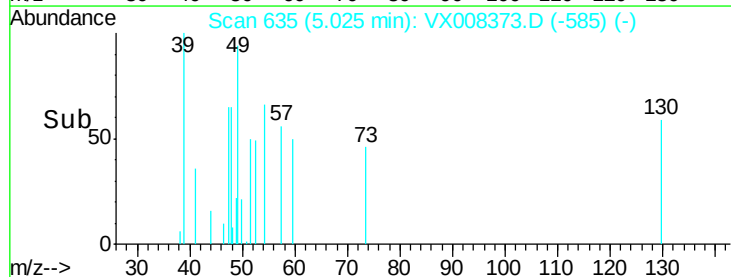
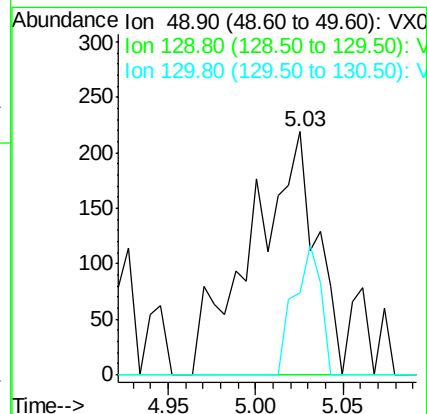
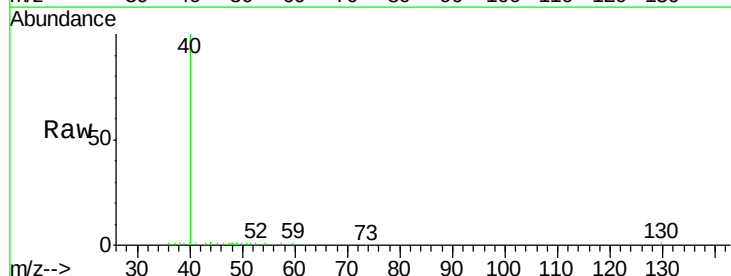
Tgt Ion: 49 Resp: 561

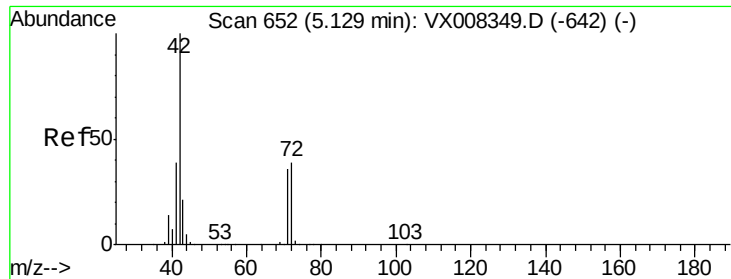
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 22.3 65.0 97.4#

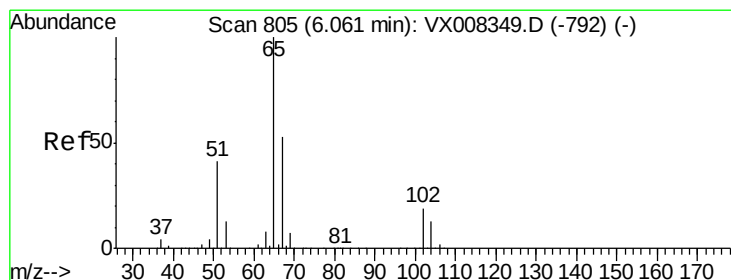
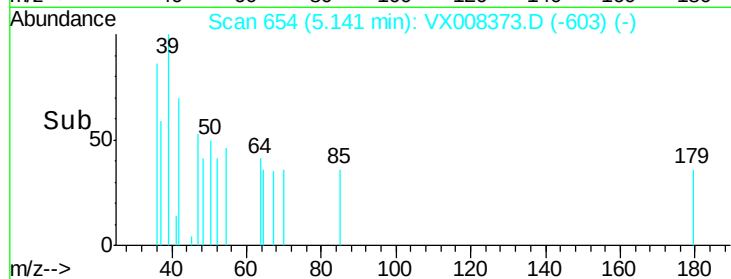
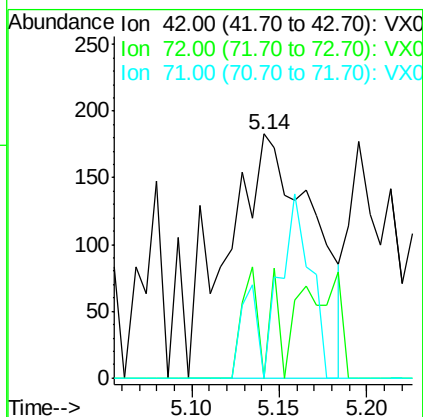
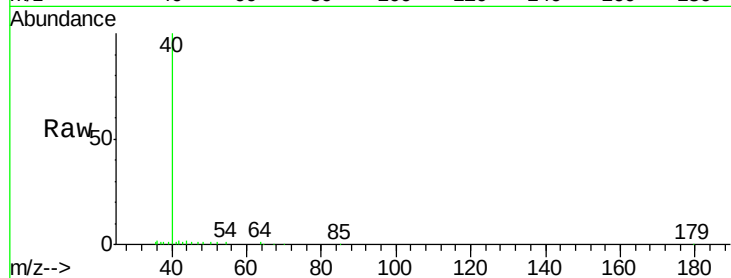




#29
Tetrahydrofuran
Concen: 0.338 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.01 min
Lab File: VX008373.D
Acq: 24 Mar 2019 00:22

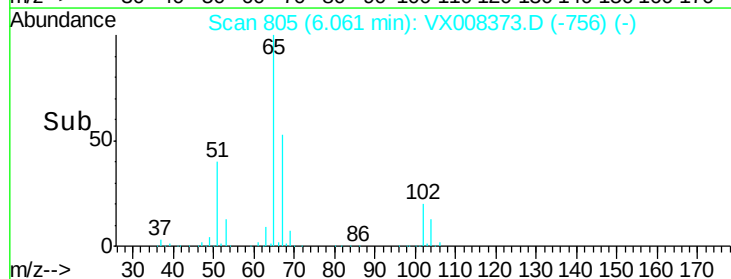
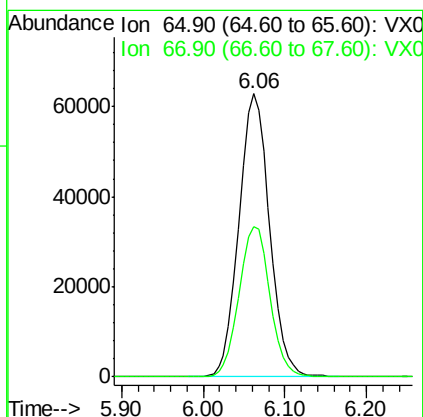
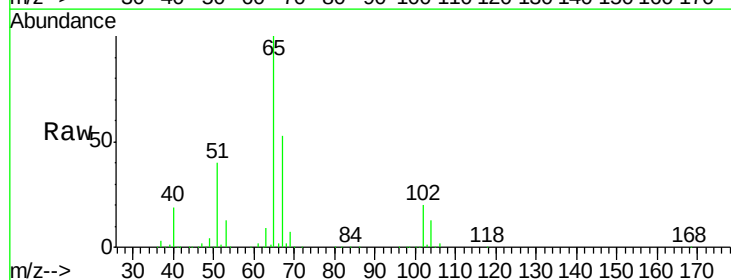
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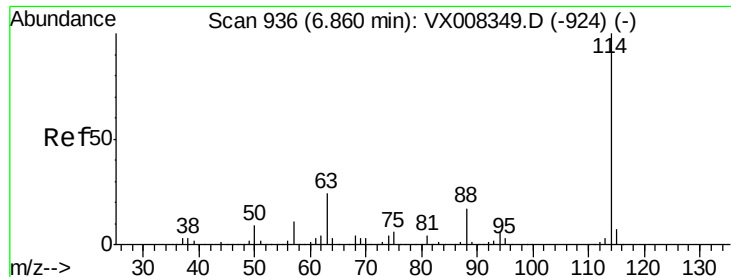
Tot Ion: 42 Resp: 629
Ion Ratio Lower Upper
42 100
72 8.1 33.8 50.6#
71 7.3 31.5 47.3#



#33
1,2-Dichloroethane-d4
Concen: 48.201 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX008373.D
Acq: 24 Mar 2019 00:22

Tgt Ion: 65 Resp: 163946
Ion Ratio Lower Upper
65 100
67 53.9 0.0 110.0

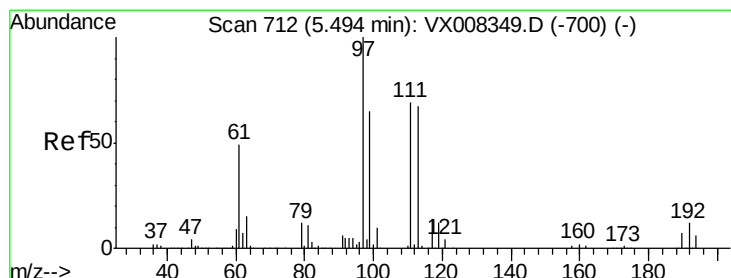
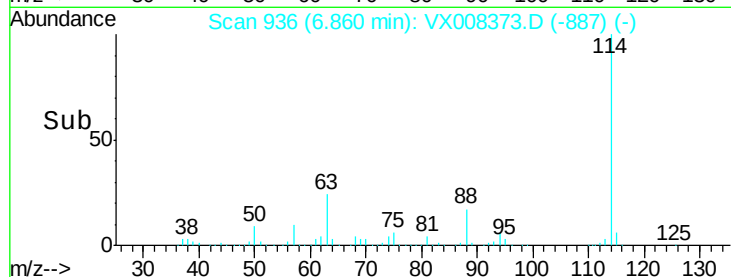
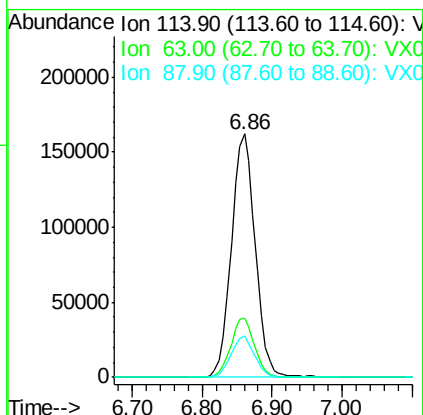
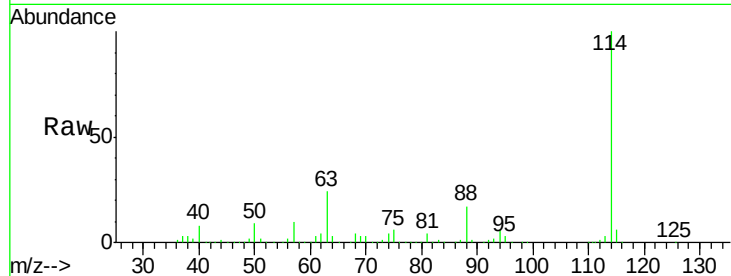




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX008373.D
Acq: 24 Mar 2019 00:22

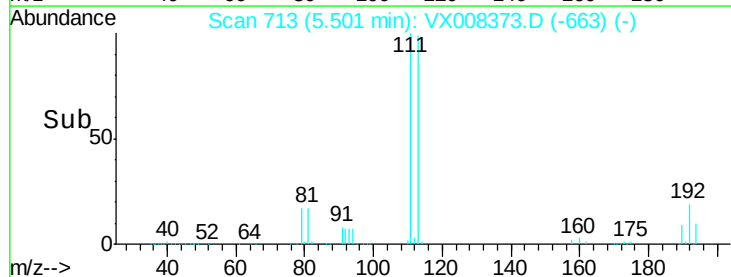
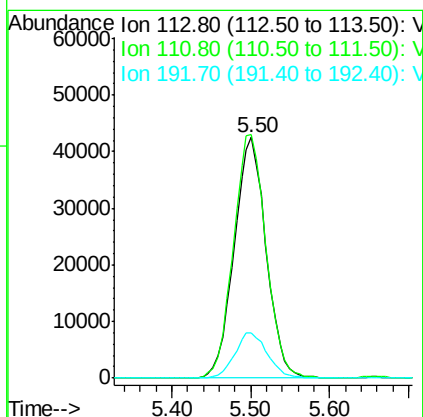
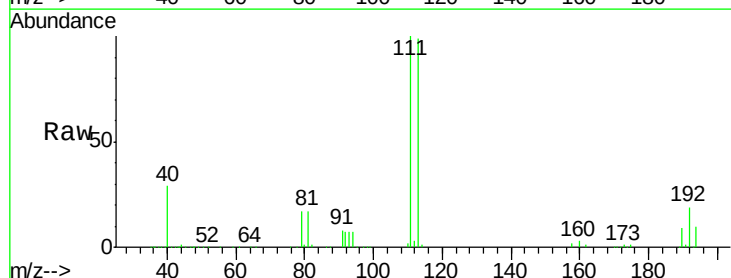
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW309D-20190313

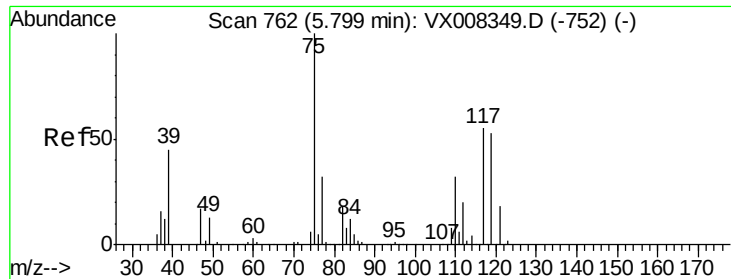
Tot Ion:114 Resp: 383482
Ion Ratio Lower Upper
114 100
63 24.1 0.0 39.8
88 17.0 0.0 31.4



#35
Dibromofluoromethane
Concen: 48.054 ug/l
RT: 5.50 min Scan# 713
Delta R.T. 0.01 min
Lab File: VX008373.D
Acq: 24 Mar 2019 00:22

Tgt Ion:113 Resp: 119393
Ion Ratio Lower Upper
113 100
111 103.4 81.4 122.0
192 19.4 19.4 29.0

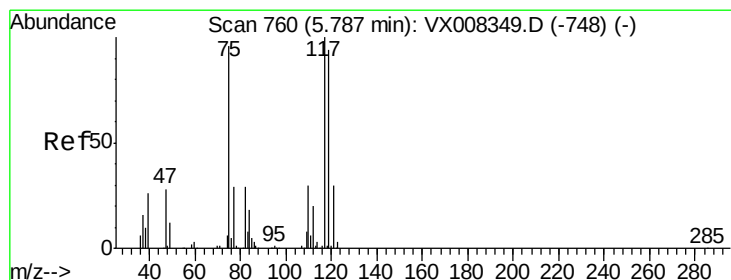
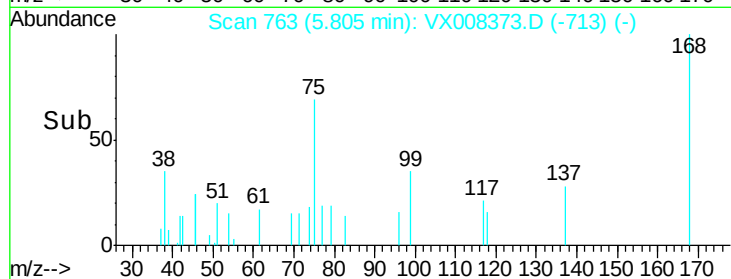
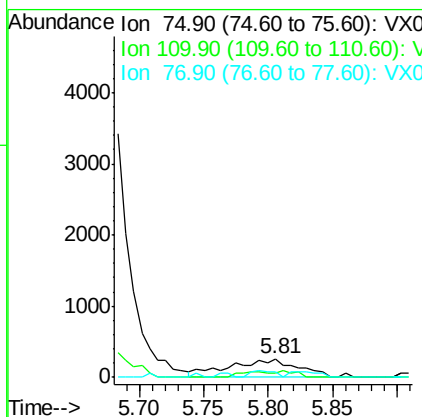
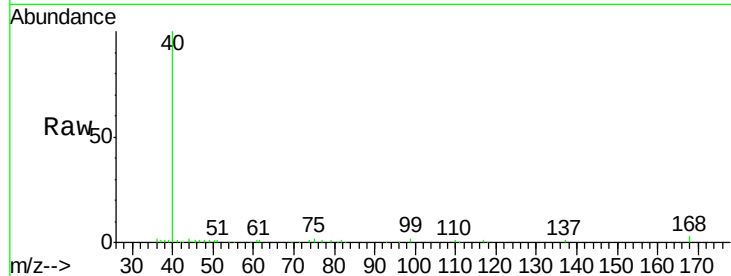




#36
 1,1-Dichloropropene
 Concen: 0.241 ug/l
 RT: 5.81 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VX008373.D
 Acq: 24 Mar 2019 00:22

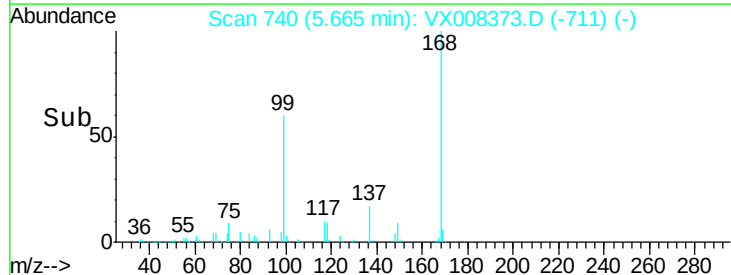
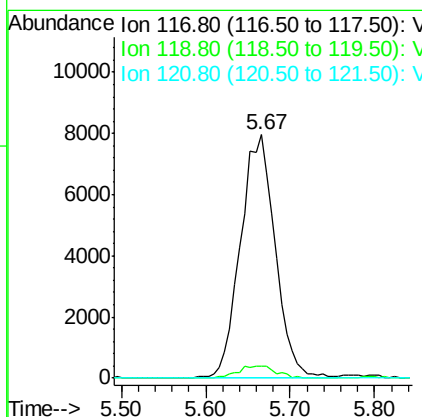
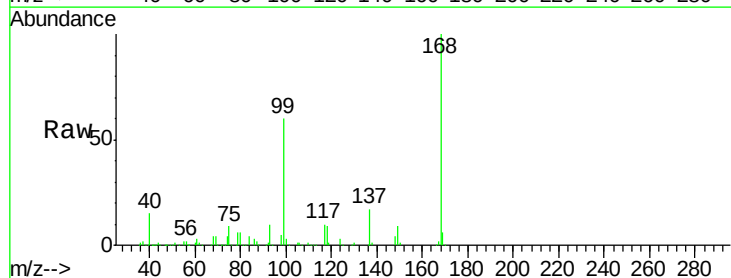
Instrument :
 MSVOA_X
 ClientSampleId :
 BPS1-TT-MW309D-20190313

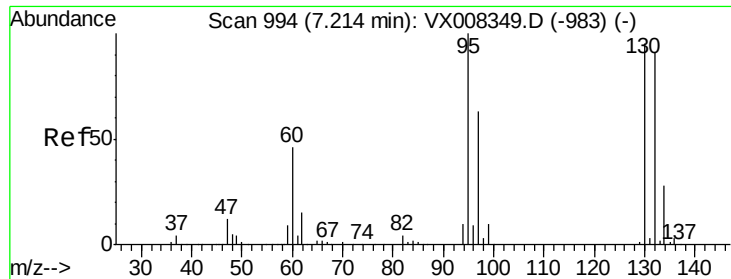
Tot Ion: 75 Resp: 945
 Ion Ratio Lower Upper
 75 100
 110 11.5 18.4 55.0#
 77 13.2 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.627 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX008373.D
 Acq: 24 Mar 2019 00:22

Tgt Ion: 117 Resp: 22261
 Ion Ratio Lower Upper
 117 100
 119 5.0 76.2 114.2#
 121 0.0 24.6 36.8#





#44

Trichloroethene

Concen: 0.506 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008373.D

Acq: 24 Mar 2019 00:22

Instrument :

MSVOA_X

ClientSampleId :

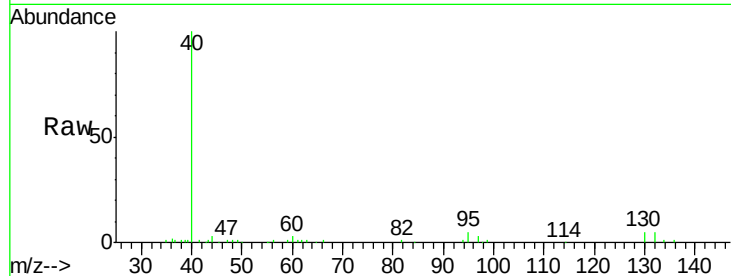
BPS1-TT-MW309D-20190313

Tot Ion:130 Resp: 1401

Ion Ratio Lower Upper

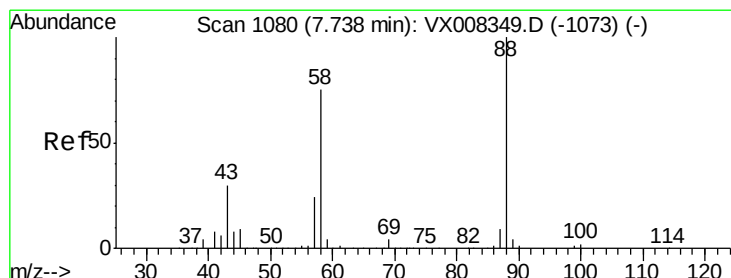
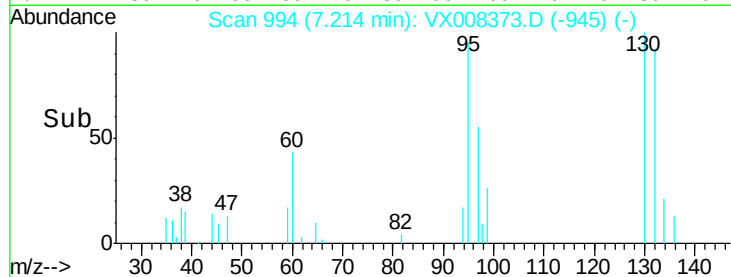
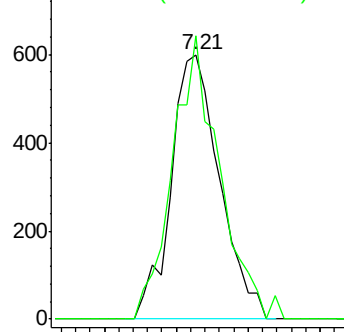
130 100

95 107.2 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.488 ug/l

RT: 7.73 min Scan# 1078

Delta R.T. -0.01 min

Lab File: VX008373.D

Acq: 24 Mar 2019 00:22

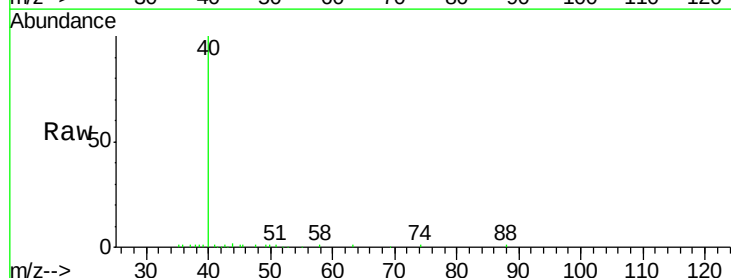
Tgt Ion: 88 Resp: 41

Ion Ratio Lower Upper

88 100

43 385.4 25.1 37.7#

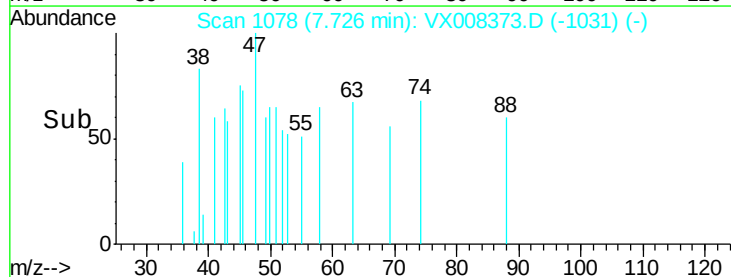
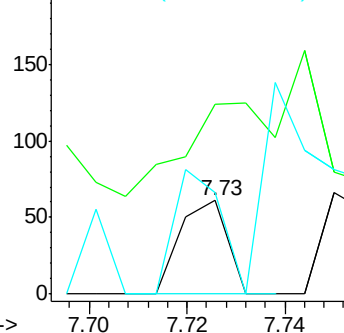
58 778.0 57.8 86.6#

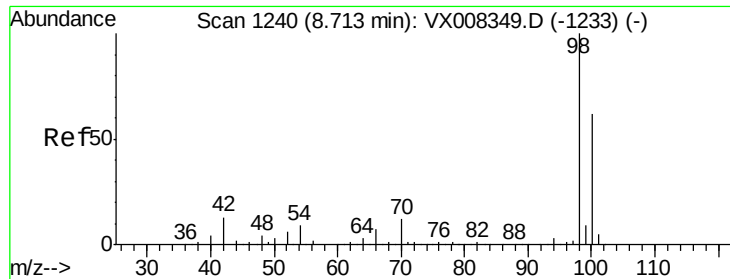


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

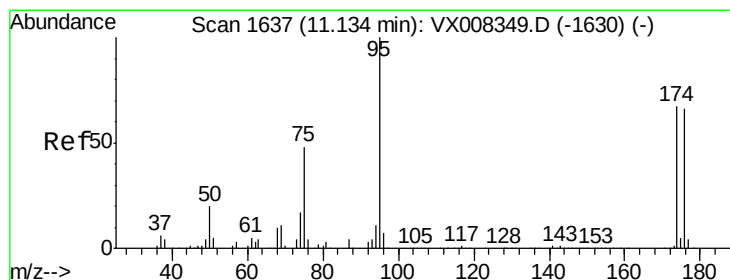
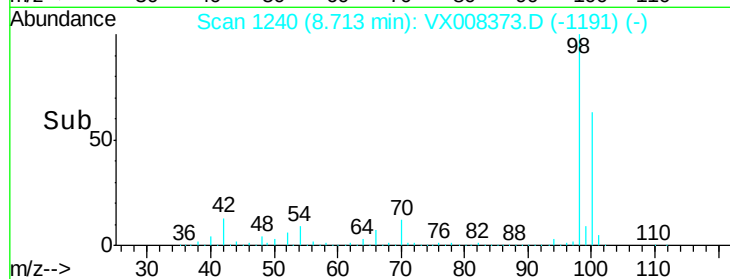
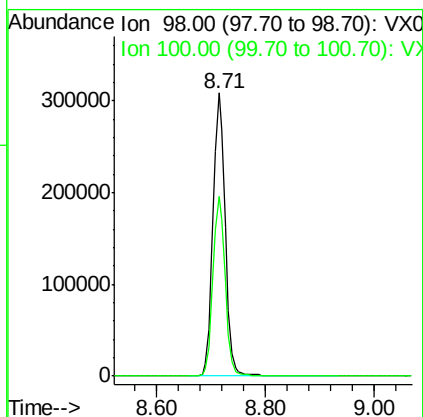
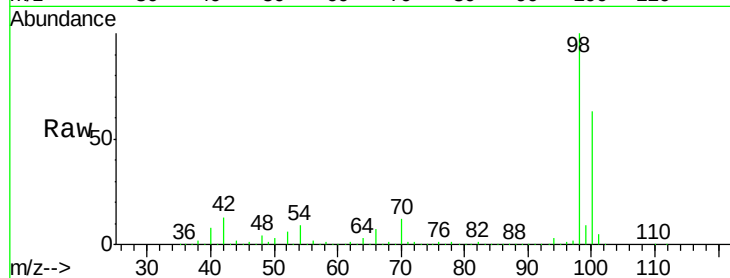




#50
Toluene-d8
Concen: 48.856 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008373.D
Acq: 24 Mar 2019 00:22

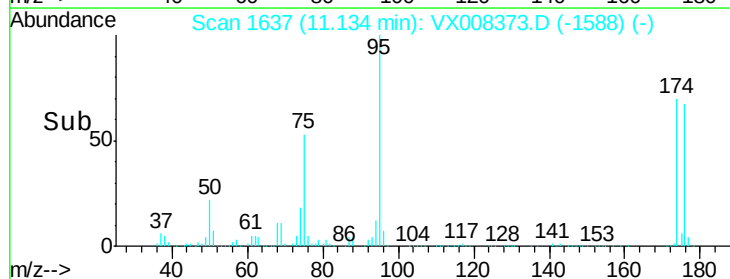
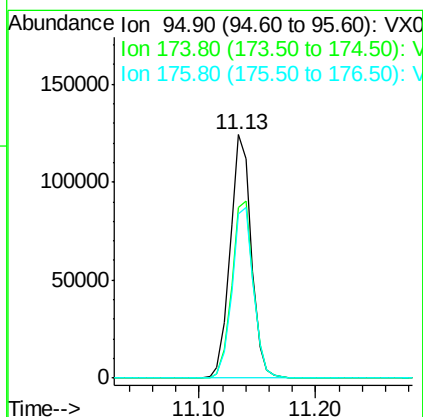
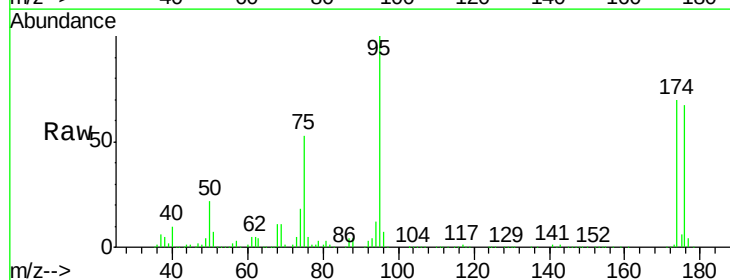
Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW309D-20190313

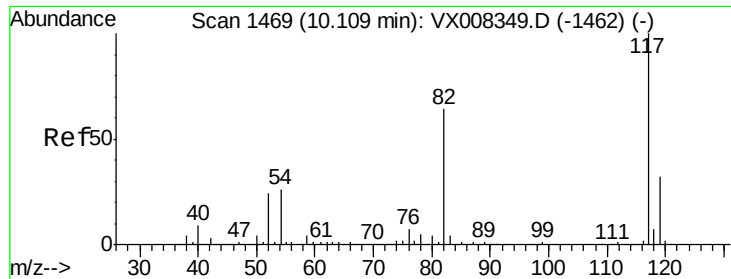
Tot Ion: 98 Resp: 480116
Ion Ratio Lower Upper
98 100
100 63.7 51.7 77.5



#62
4-Bromofluorobenzene
Concen: 43.384 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008373.D
Acq: 24 Mar 2019 00:22

Tgt Ion: 95 Resp: 156535
Ion Ratio Lower Upper
95 100
174 74.1 0.0 182.8
176 71.4 0.0 178.0

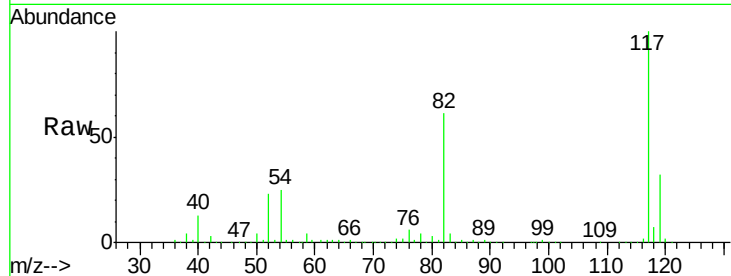




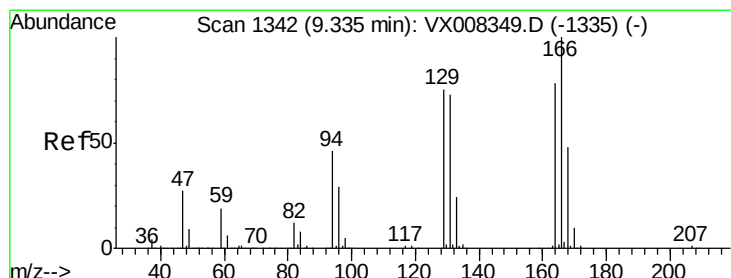
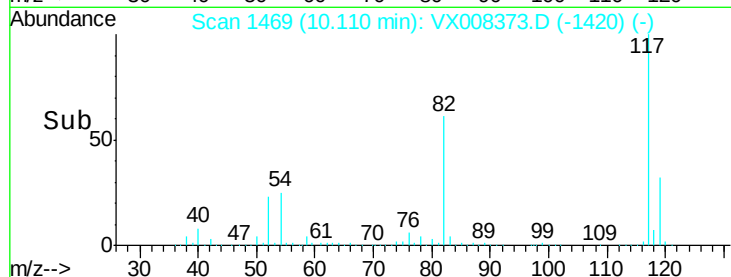
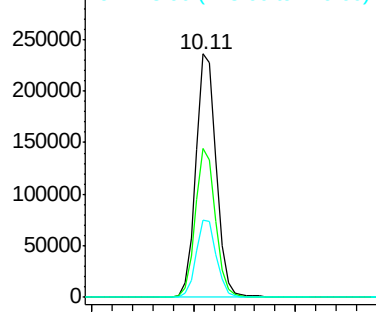
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008373.D
Acq: 24 Mar 2019 00:22

Instrument :
MSVOA_X
ClientSampleId :
BPS1-TT-MW309D-20190313

Tot Ion:117 Resp: 325578
Ion Ratio Lower Upper
117 100
82 61.4 44.3 66.5
119 31.7 25.3 37.9



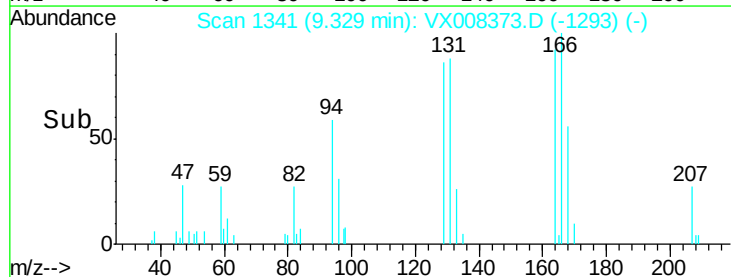
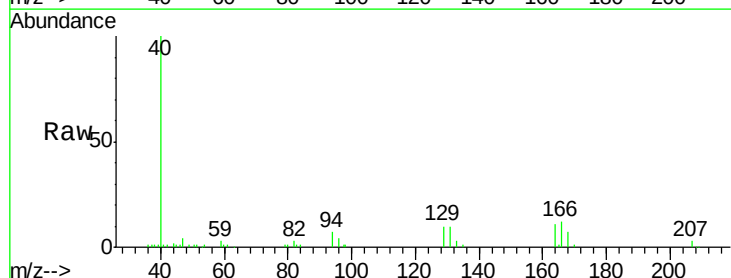
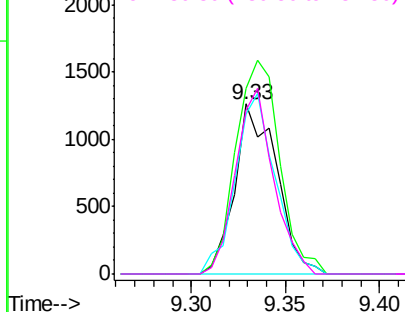
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

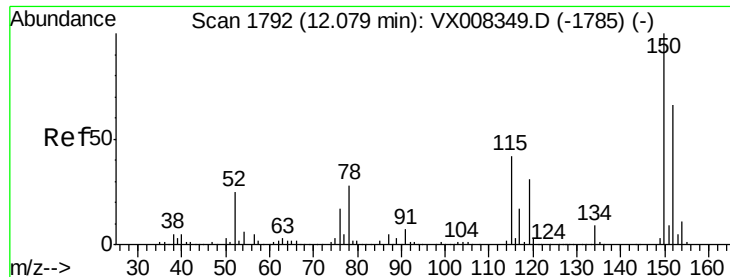


#64
Tetrachloroethene
Concen: 0.919 ug/l
RT: 9.33 min Scan# 1341
Delta R.T. -0.01 min
Lab File: VX008373.D
Acq: 24 Mar 2019 00:22

Tgt Ion:164 Resp: 1956
Ion Ratio Lower Upper
164 100
166 109.1 103.4 155.0
129 94.3 72.2 108.4
131 96.3 69.4 104.2

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): 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: VX008373.D

Acq: 24 Mar 2019 00:22

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW309D-20190313

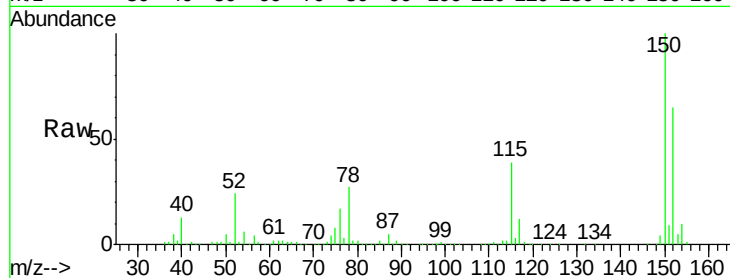
Tot Ion:152 Resp: 132104

Ion Ratio Lower Upper

152 100

115 61.6 38.6 115.7

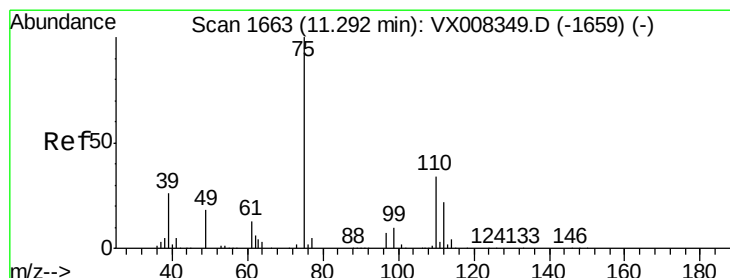
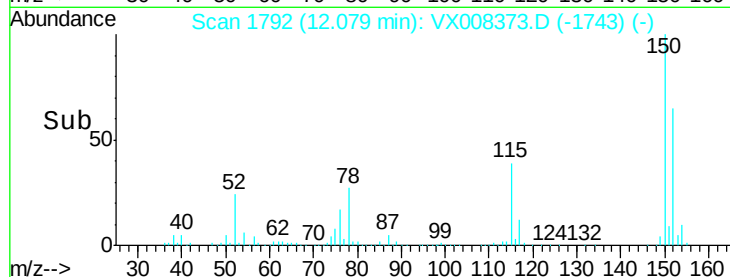
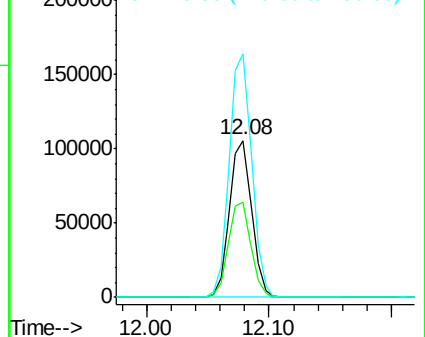
150 156.7 0.0 348.4



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



#76

1,2,3-Trichloropropane

Concen: 23.291 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008373.D

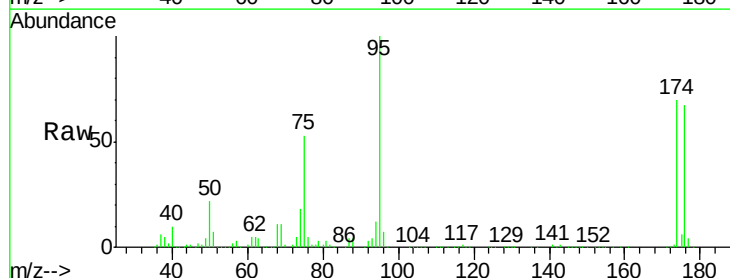
Acq: 24 Mar 2019 00:22

Tgt Ion: 75 Resp: 80535

Ion Ratio Lower Upper

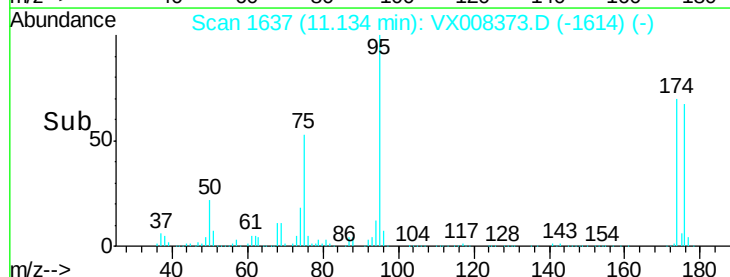
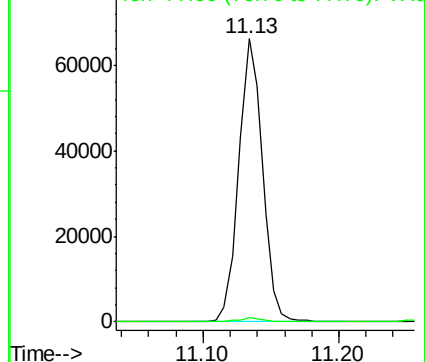
75 100

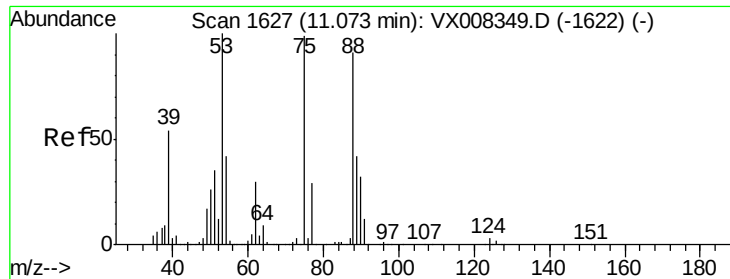
77 1.5 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 66.373 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008373.D

Acq: 24 Mar 2019 00:22

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW309D-20190313

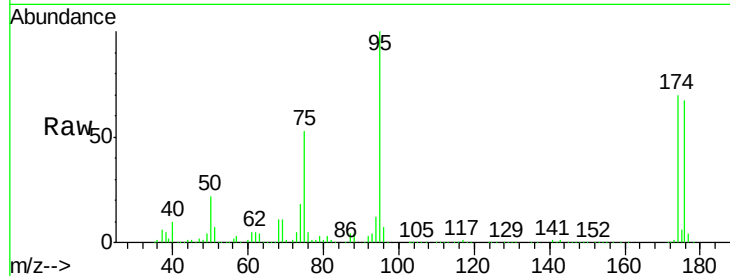
Tot Ion: 75 Resp: 80535

Ion Ratio Lower Upper

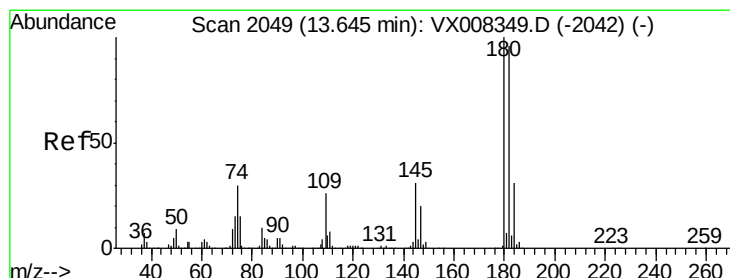
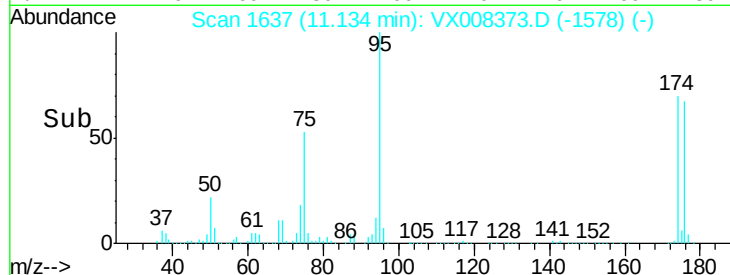
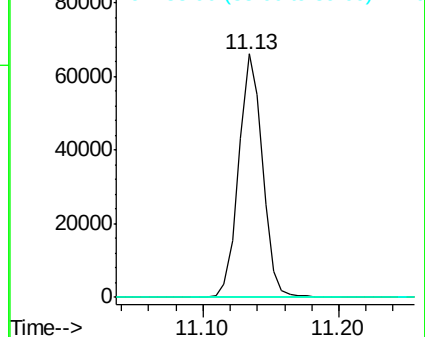
75 100

53 0.2 76.1 114.1#

89 0.0 36.3 54.5#



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



#93

1,2,4-Trichlorobenzene

Concen: 0.226 ug/l

RT: 13.64 min Scan# 2048

Delta R.T. -0.01 min

Lab File: VX008373.D

Acq: 24 Mar 2019 00:22

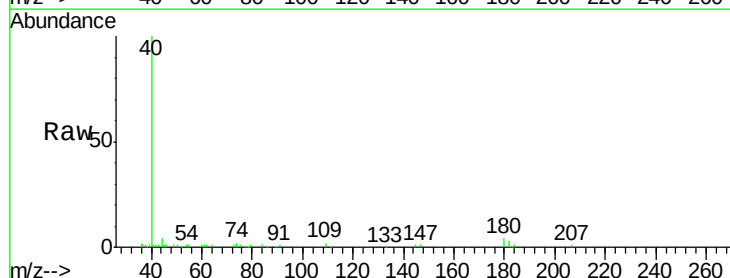
Tgt Ion:180 Resp: 684

Ion Ratio Lower Upper

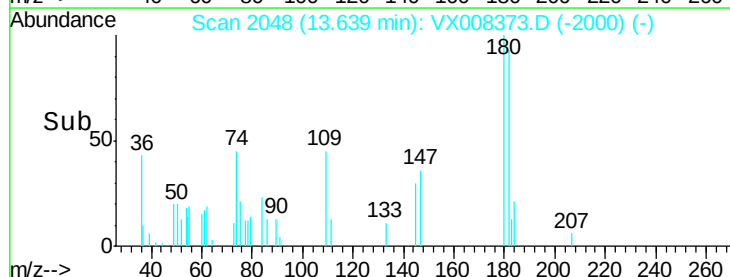
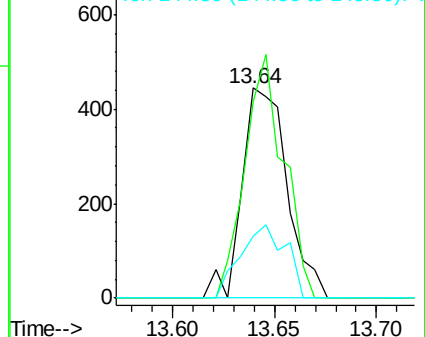
180 100

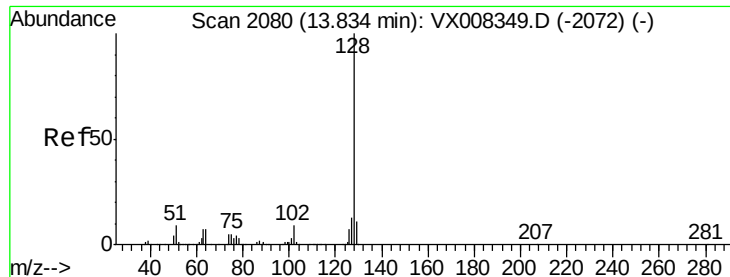
182 99.6 47.9 143.7

145 35.1 14.1 42.4



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 0.251 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX008373.D

Acq: 24 Mar 2019 00:22

Instrument :

MSVOA_X

ClientSampleId :

BPS1-TT-MW309D-20190313

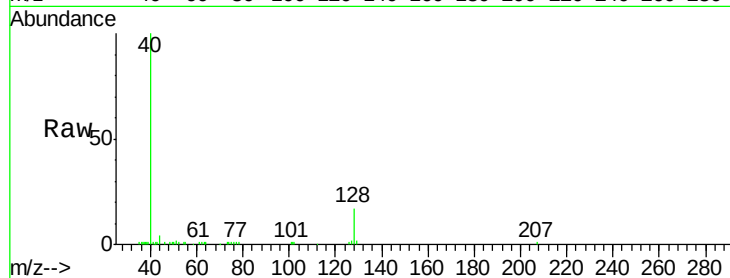
Tot Ion:128 Resp: 2665

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

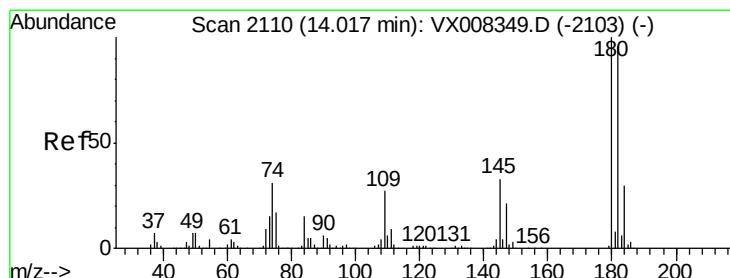
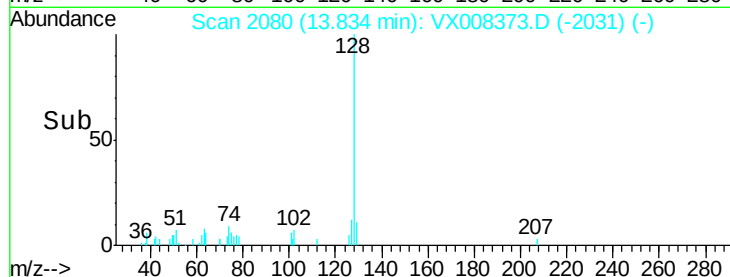
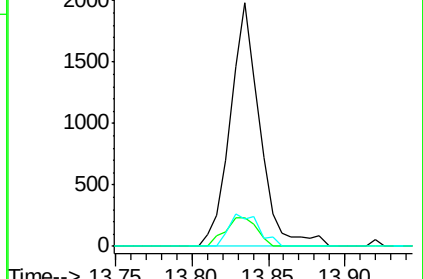
129 13.4 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.220 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VX008373.D

Acq: 24 Mar 2019 00:22

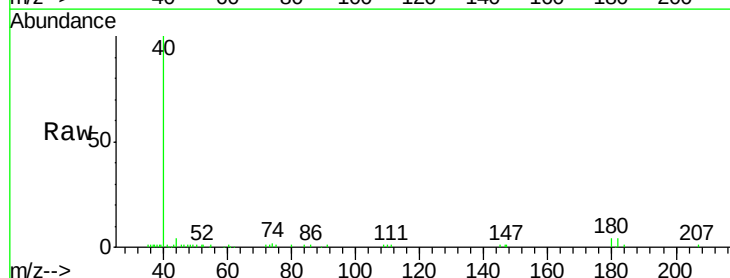
Tgt Ion:180 Resp: 672

Ion Ratio Lower Upper

180 100

182 92.9 47.5 142.5

145 43.5 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

