

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041819\
 Data File : VX009039.D
 Acq On : 18 Apr 2019 13:24
 Operator : JC/SP
 Sample : K2448-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ST006RW153-190415

Quant Time: Apr 19 01:36:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 17 06:47:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	249270	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	404724	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	348337	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	147622	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	167022	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
35) Dibromofluoromethane	5.50	113	122637	47.21	ug/l	0.00
Spiked Amount			Recovery	=	94.42%	
50) Toluene-d8	8.71	98	499287	48.20	ug/l	0.00
Spiked Amount			Recovery	=	96.40%	
62) 4-Bromofluorobenzene	11.13	95	165837	45.35	ug/l	0.00
Spiked Amount			Recovery	=	90.70%	

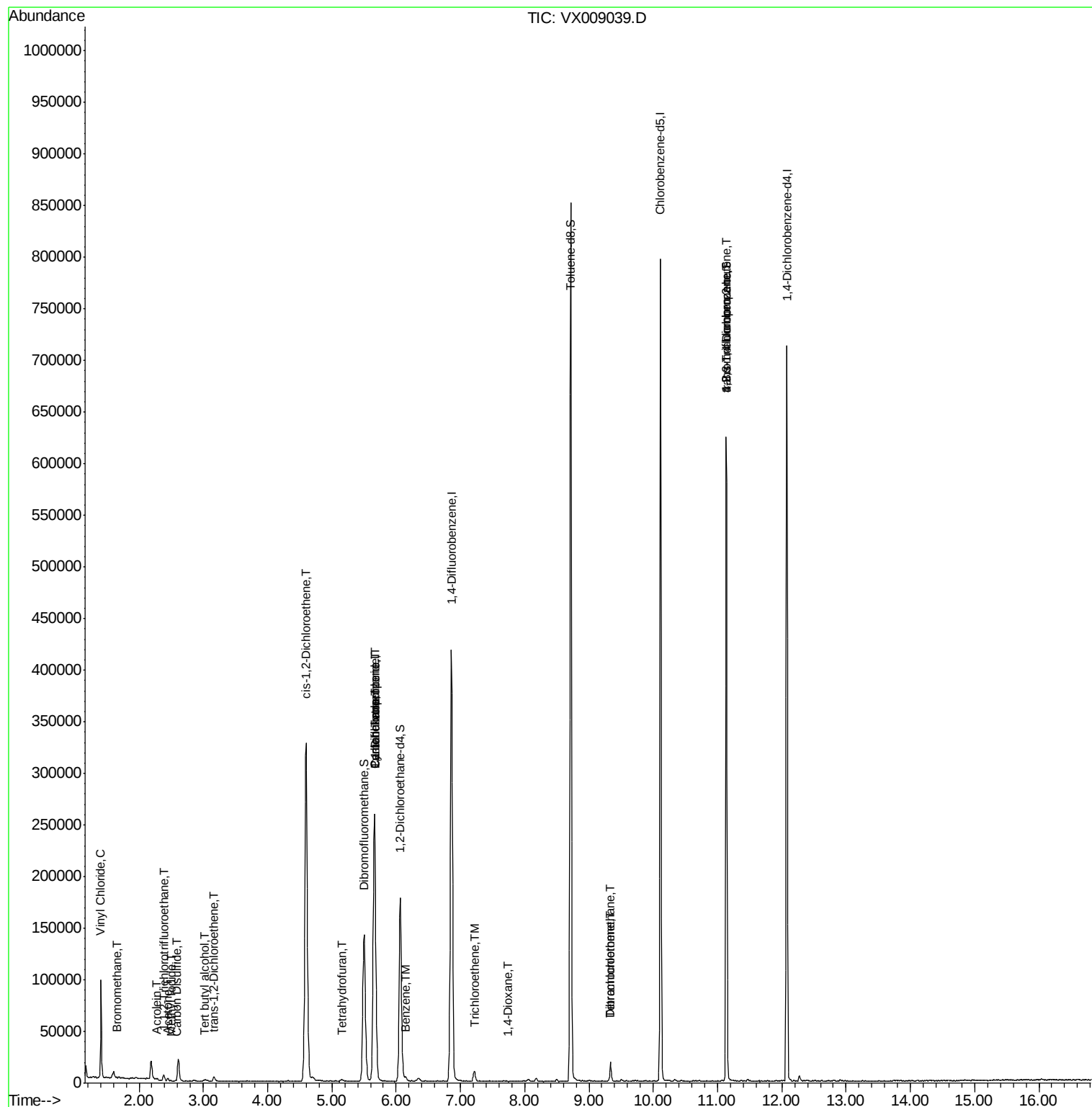
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.40	62	67039	19.541	ug/l	98
5) Bromomethane	1.65	94	273	3.966	ug/l #	62
9) 1,1,2-Trichlorotrifluoroet	2.38	101	2044	0.798	ug/l	95
10) Methyl Iodide	2.51	142	189	4.476	ug/l #	67
11) Tert butyl alcohol	3.01	59	595	0.763	ug/l #	86
13) Acrolein	2.27	56	165	0.245	ug/l #	1
16) Acetone	2.45	43	2625	1.441	ug/l	95
17) Carbon Disulfide	2.57	76	860	1.359	ug/l #	90
21) trans-1,2-Dichloroethene	3.17	96	1489	0.522	ug/l	88
27) cis-1,2-Dichloroethene	4.60	96	202193	62.460	ug/l	90
28) Bromochloromethane	5.01	49	60	Below Cal	#	21
29) Tetrahydrofuran	5.16	42	1778	0.912	ug/l #	89
31) Cyclohexane	5.66	56	6132	1.096	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19855	4.744	ug/l #	50
38) Carbon Tetrachloride	5.67	117	23907	6.737	ug/l #	16
40) Benzene	6.14	78	3328	0.270	ug/l	95
44) Trichloroethene	7.22	130	3767	1.245	ug/l	93
49) 1,4-Dioxane	7.74	88	20	0.249	ug/l #	1
60) Dibromochloromethane	9.34	129	3102	1.104	ug/l #	10
64) Tetrachloroethene	9.34	164	3355	1.268	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	85154	23.623	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	85154	60.648	ug/l #	11

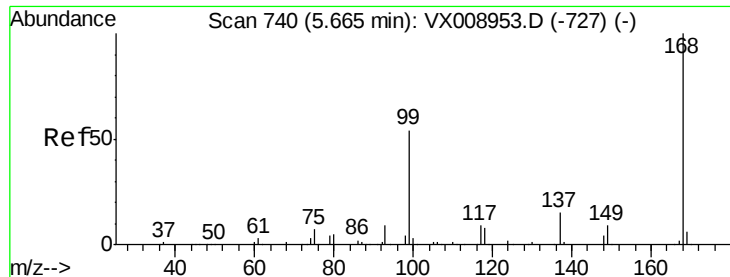
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 17 06:47:58 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

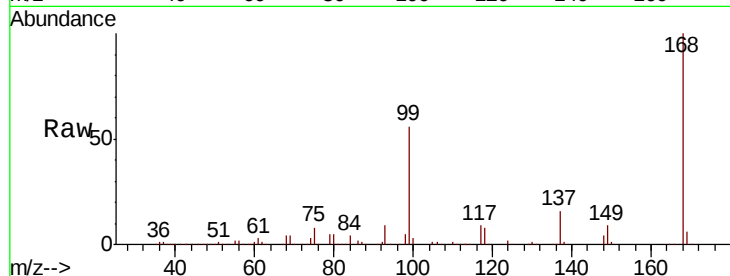
ST006RW153-190415

Tot Ion:168 Resp: 249270

Ion Ratio Lower Upper

168 100

99 56.2 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

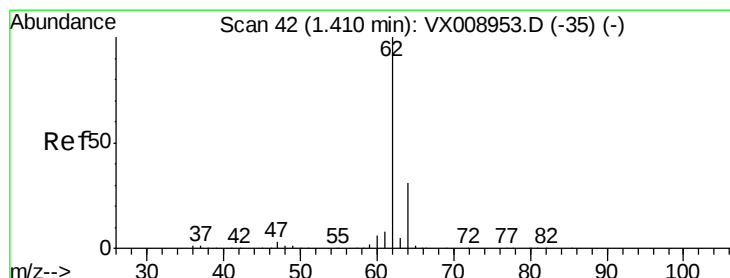
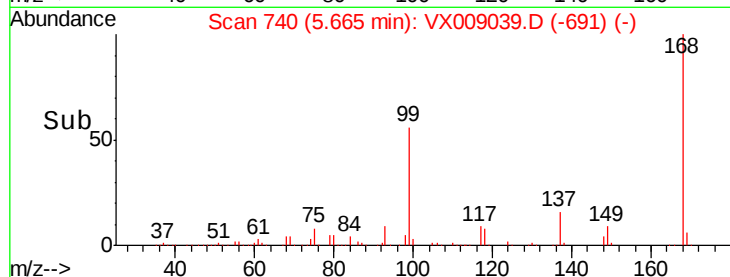
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 19.541 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX009039.D

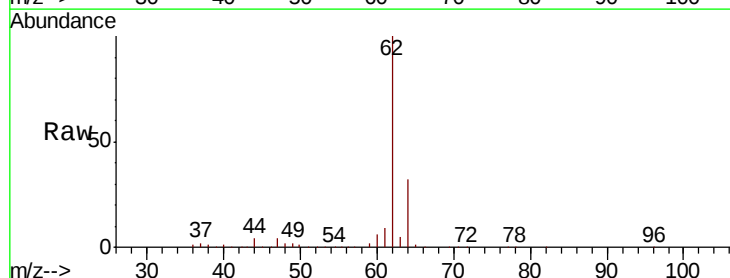
Acq: 18 Apr 2019 13:24

Tgt Ion: 62 Resp: 67039

Ion Ratio Lower Upper

62 100

64 32.1 25.0 37.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

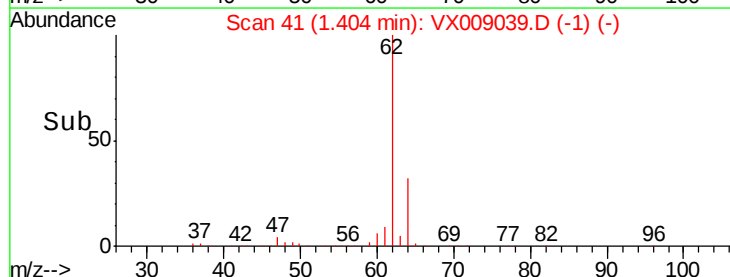
60000

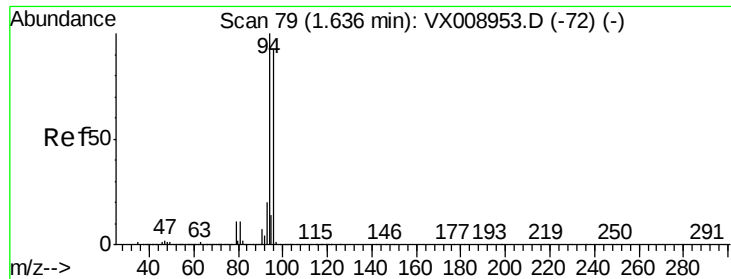
40000

20000

0

Time--> 1.30 1.40 1.50





#5

Bromomethane

Concen: 3.966 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.02 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

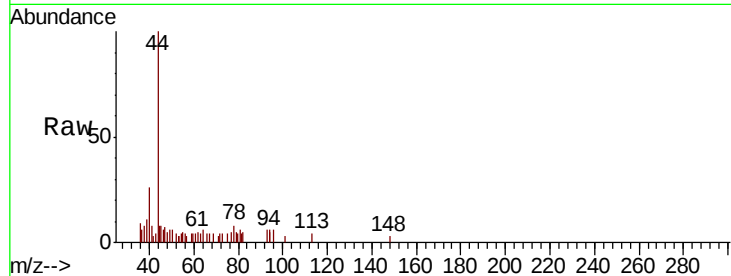
ST006RW153-190415

Tot Ion: 94 Resp: 273

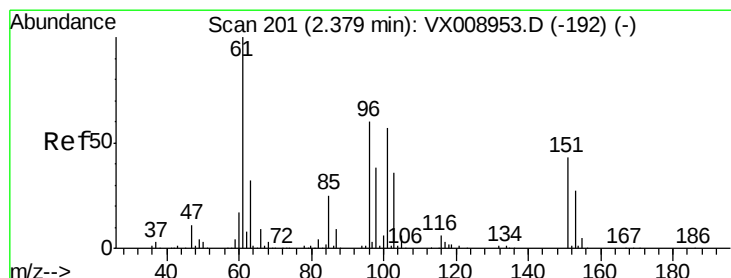
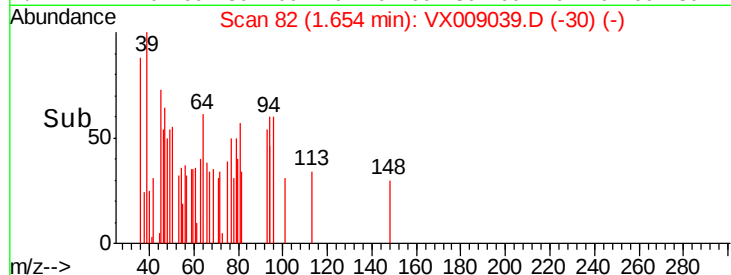
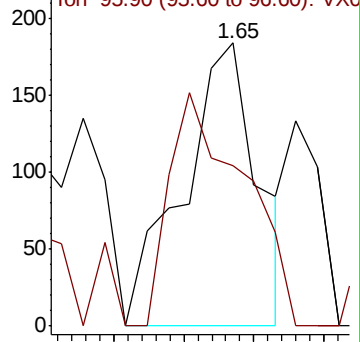
Ion Ratio Lower Upper

94 100

96 56.5 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.798 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.00 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

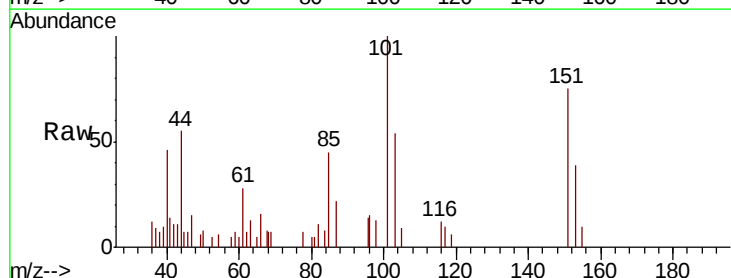
Tgt Ion:101 Resp: 2044

Ion Ratio Lower Upper

101 100

85 47.6 35.7 53.5

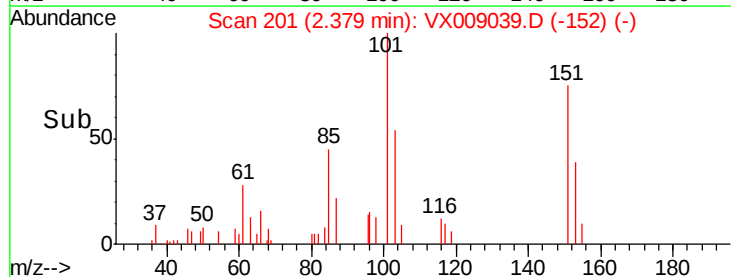
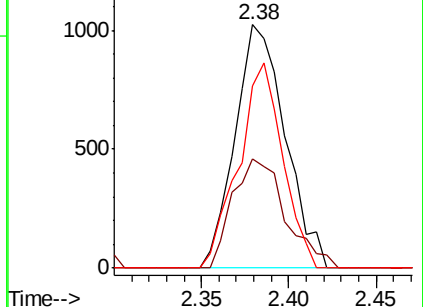
151 73.9 62.7 94.1

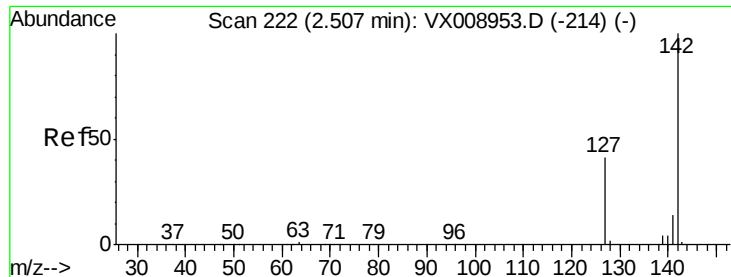


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V

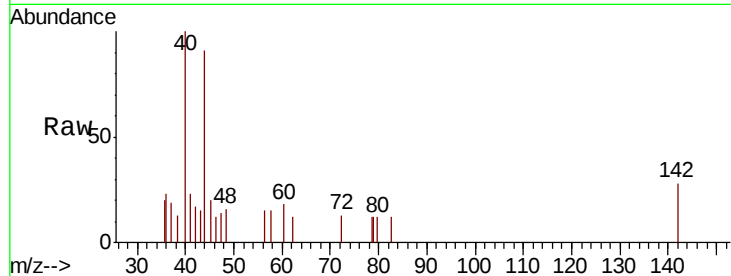




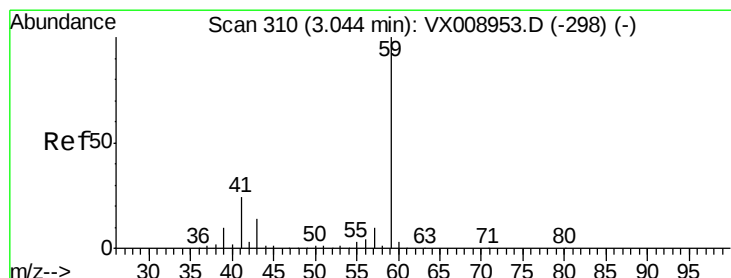
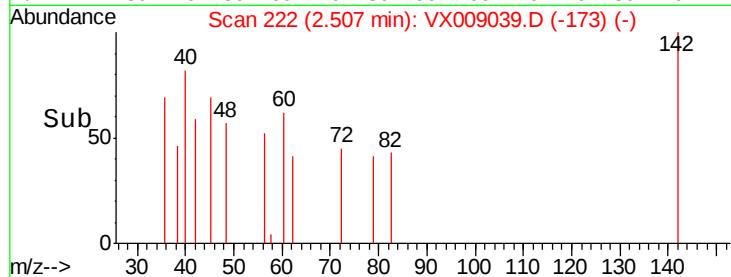
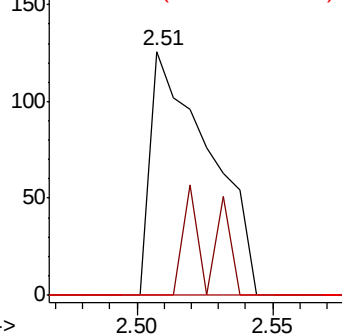
#10
Methvl Iodide
Concen: 4.476 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX009039.D
Acq: 18 Apr 2019 13:24

Instrument :
MSVOA_X
ClientSampleId :
ST006RW153-190415

Tot Ion:142 Resp: 189
Ion Ratio Lower Upper
142 100
127 21.2 32.8 49.2#
141 0.0 11.4 17.2#

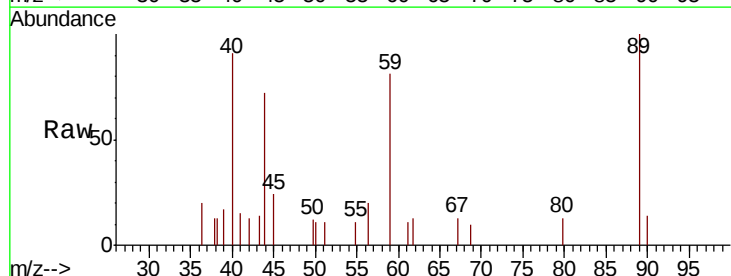


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

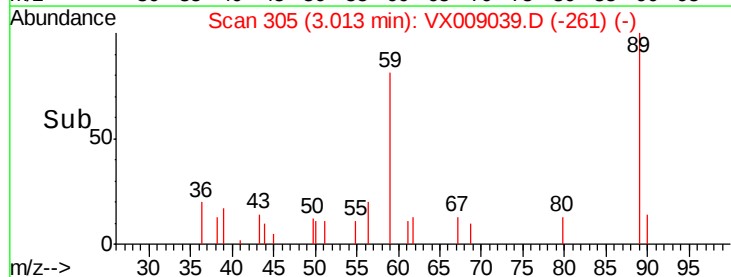
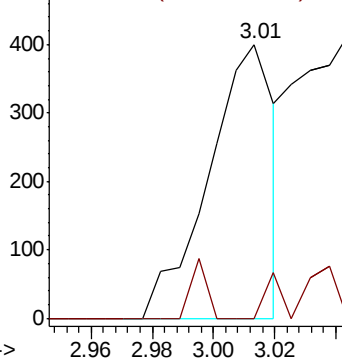


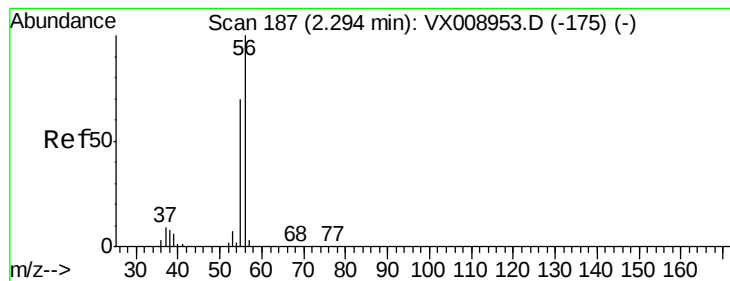
#11
Tert butyl alcohol
Concen: 0.763 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.03 min
Lab File: VX009039.D
Acq: 18 Apr 2019 13:24

Tgt Ion: 59 Resp: 595
Ion Ratio Lower Upper
59 100
57 5.4 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.245 ug/l

RT: 2.27 min Scan# 183

Delta R.T. -0.02 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

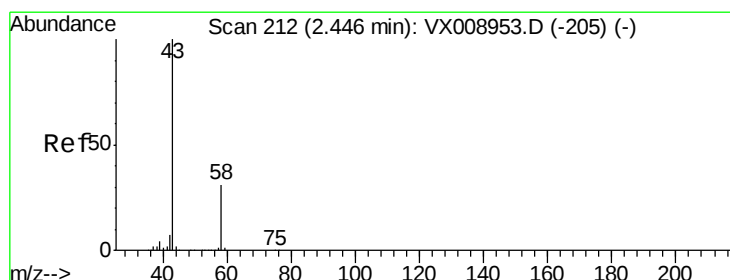
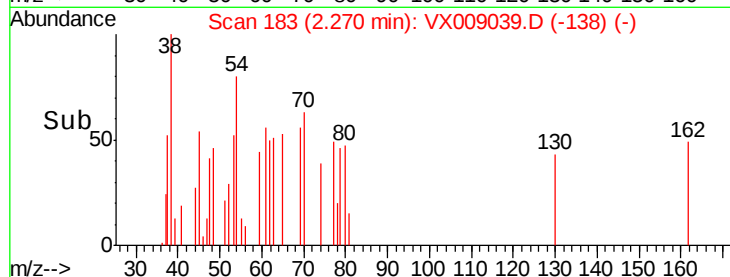
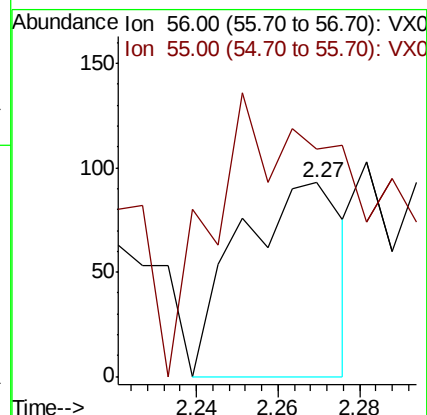
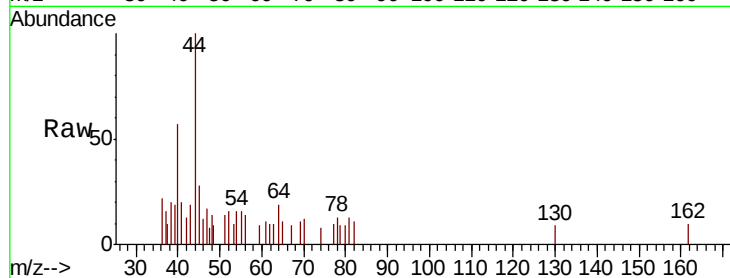
ST006RW153-190415

Tot Ion: 56 Resp: 165

Ion Ratio Lower Upper

56 100

55 234.5 56.6 84.8#



#16

Acetone

Concen: 1.441 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX009039.D

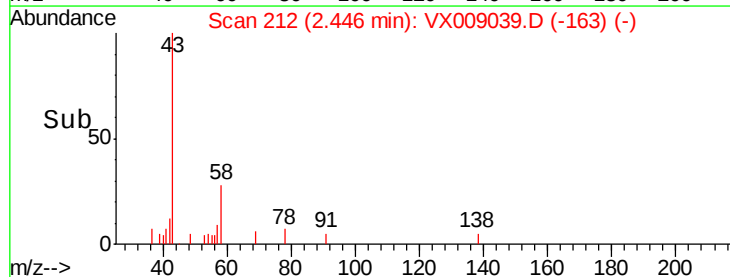
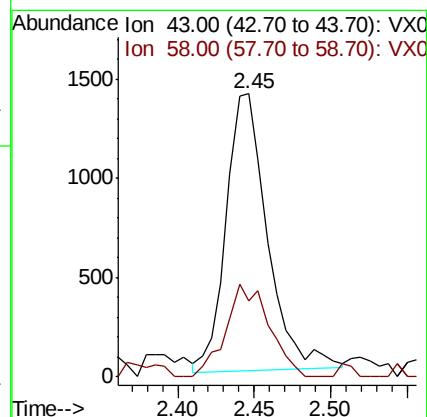
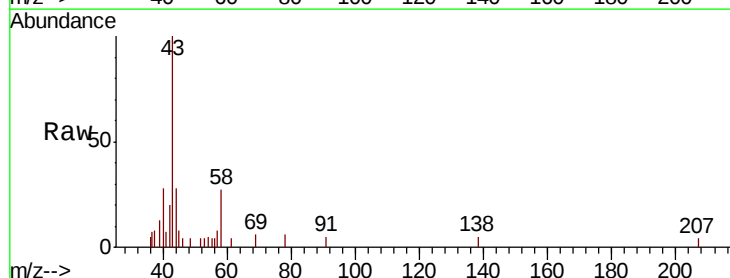
Acq: 18 Apr 2019 13:24

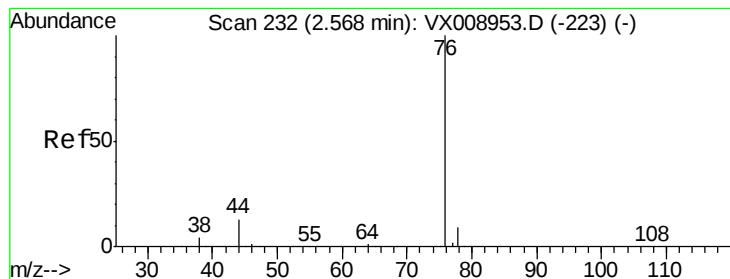
Tgt Ion: 43 Resp: 2625

Ion Ratio Lower Upper

43 100

58 28.0 24.8 37.2





#17

Carbon Disulfide

Concen: 1.359 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

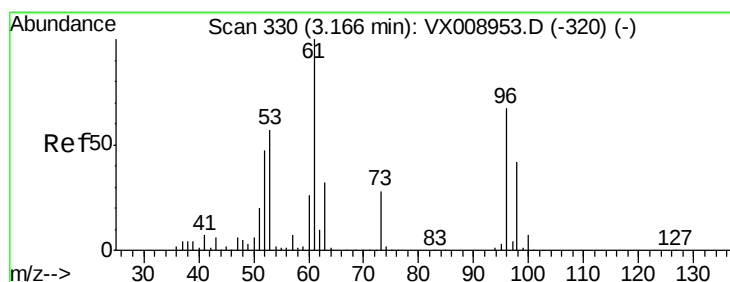
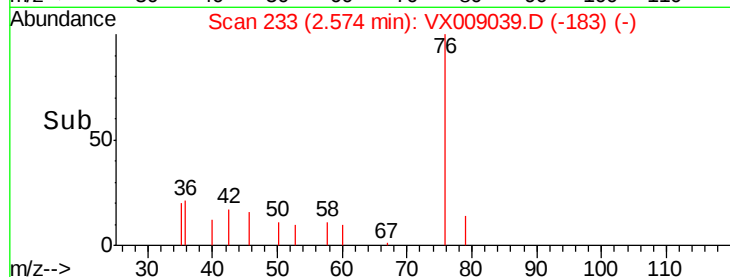
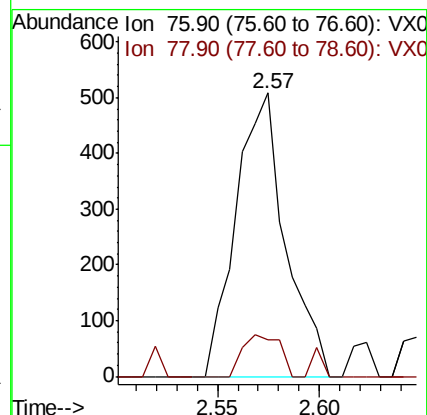
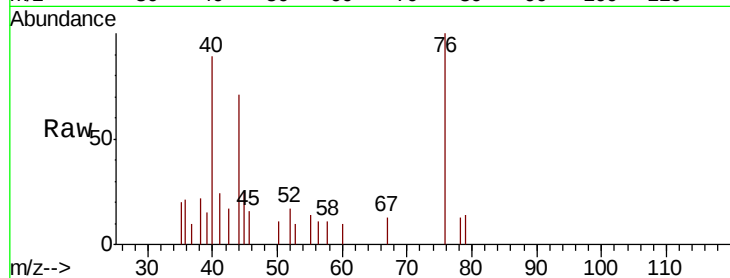
ST006RW153-190415

Tot Ion: 76 Resp: 860

Ion Ratio Lower Upper

76 100

78 12.8 7.2 10.8#



#21

trans-1,2-Dichloroethene

Concen: 0.522 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

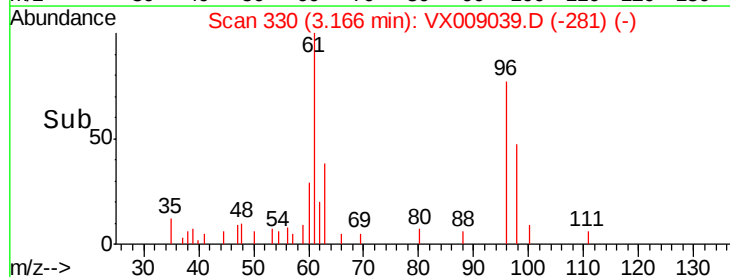
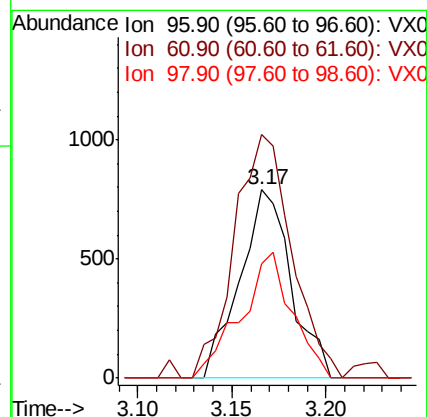
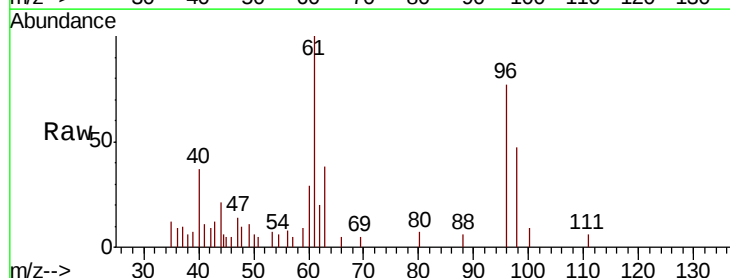
Tgt Ion: 96 Resp: 1489

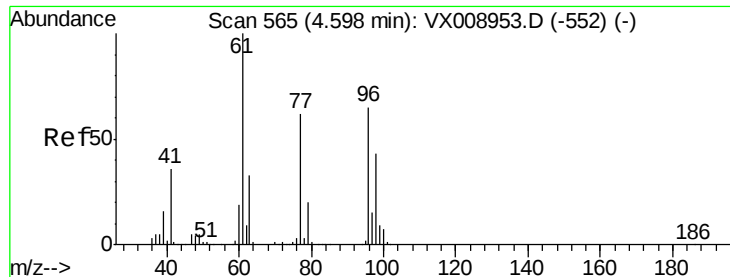
Ion Ratio Lower Upper

96 100

61 129.4 120.3 180.5

98 61.0 50.2 75.2



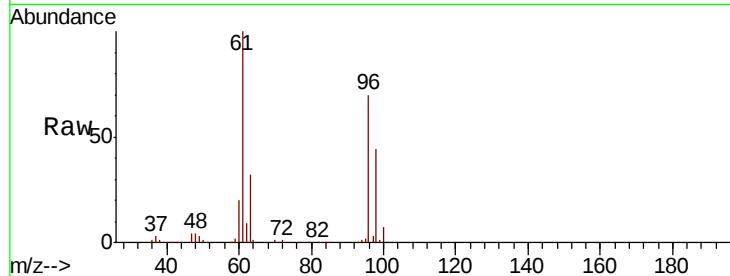


#27

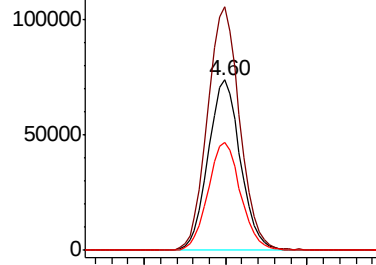
cis-1,2-Dichloroethene
 Concen: 62.460 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.00 min
 Lab File: VX009039.D
 Acq: 18 Apr 2019 13:24

Instrument :
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 ClientSampleId :
 ST006RW153-190415

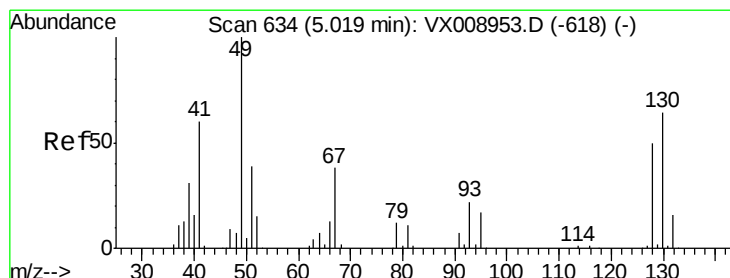
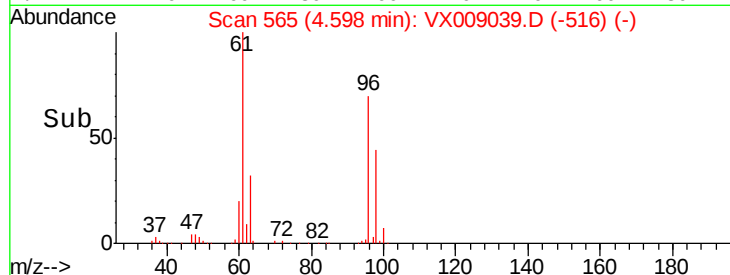
Tot Ion	Ratio	Lower	Upper
96	100		
61	143.3	0.0	322.0
98	63.9	0.0	128.4



Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



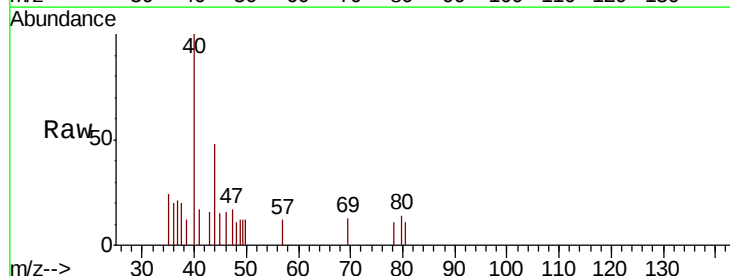
Time-->



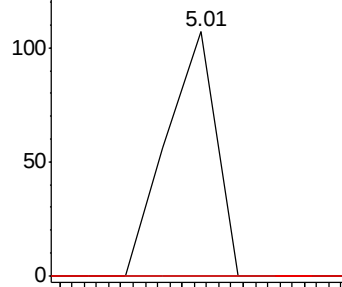
#28

Bromochloromethane
 Concen: Below Cal
 RT: 5.01 min Scan# 633
 Delta R.T. -0.01 min
 Lab File: VX009039.D
 Acq: 18 Apr 2019 13:24

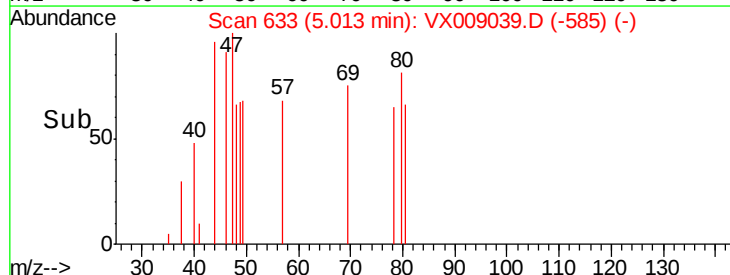
Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	0.0	50.4	75.6#

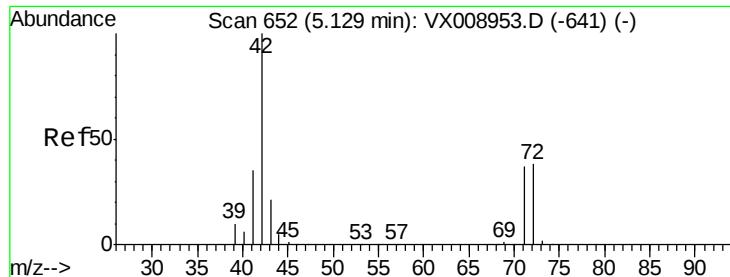


Abundance Ion 48.90 (48.60 to 49.60): VX0
 Ion 128.80 (128.50 to 129.50): V
 Ion 129.80 (129.50 to 130.50): V



Time-->





#29

Tetrahydrofuran

Concen: 0.912 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.03 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

Instrument :

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ClientSampleId :

ST006RW153-190415

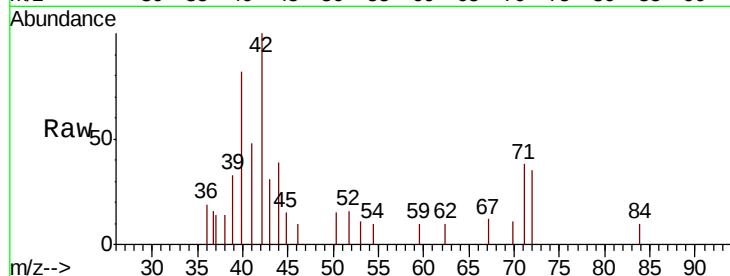
Tot Ion: 42 Resp: 1778

Ion Ratio Lower Upper

42 100

72 27.0 30.6 45.8#

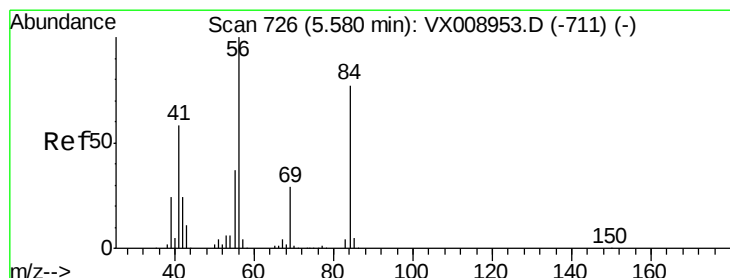
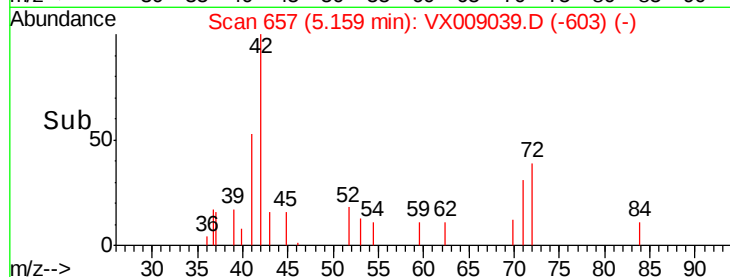
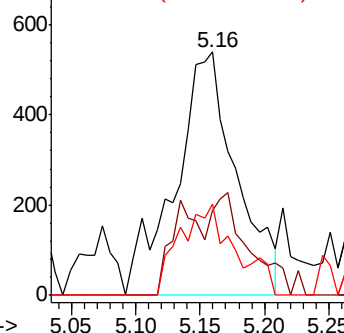
71 34.0 28.8 43.2



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: 1.096 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

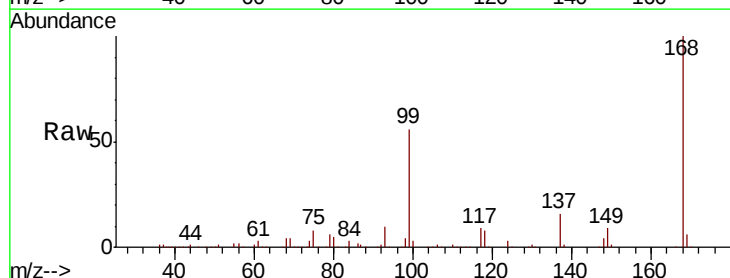
Tgt Ion: 56 Resp: 6132

Ion Ratio Lower Upper

56 100

69 199.0 23.3 34.9#

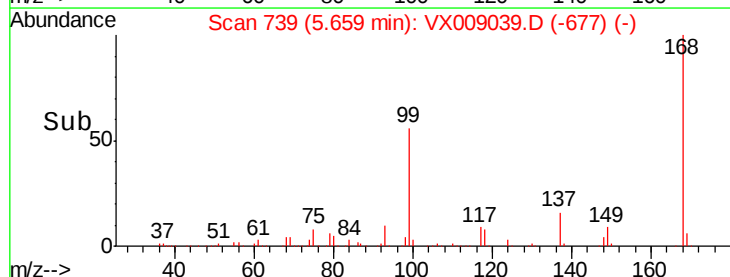
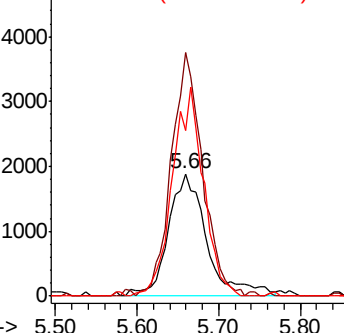
84 134.9 61.7 92.5#

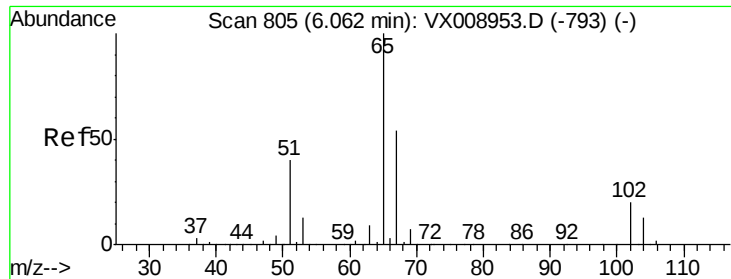


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 47.545 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

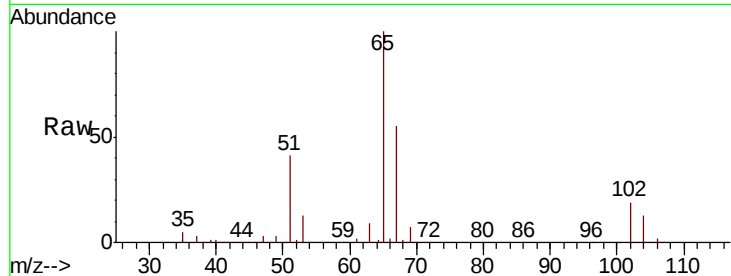
ST006RW153-190415

Tot Ion: 65 Resp: 167022

Ion Ratio Lower Upper

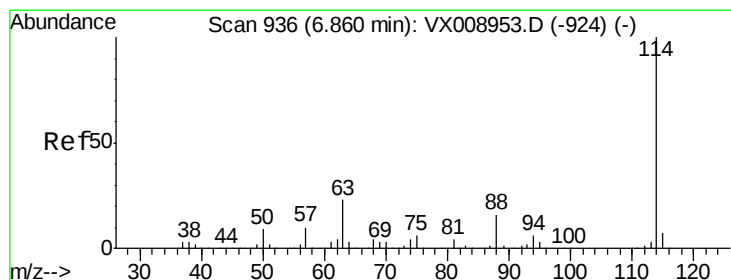
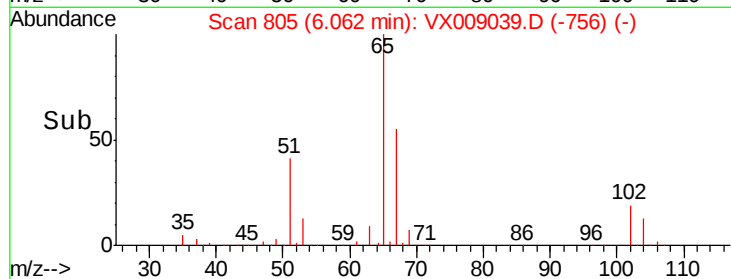
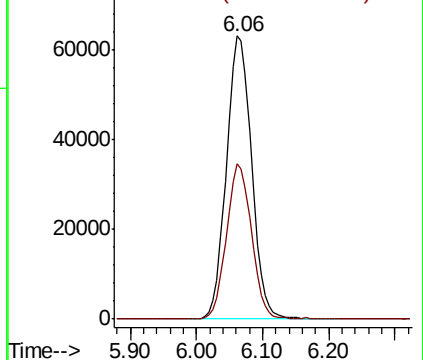
65 100

67 54.3 0.0 108.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

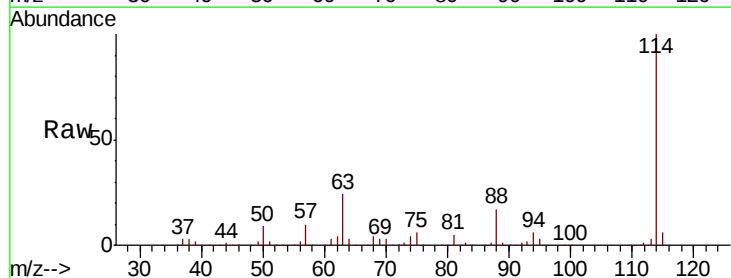
Tgt Ion: 114 Resp: 404724

Ion Ratio Lower Upper

114 100

63 23.9 0.0 46.0

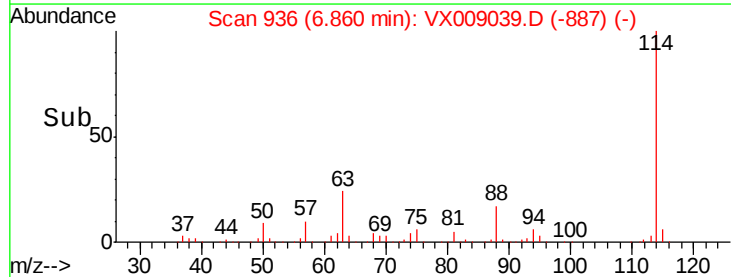
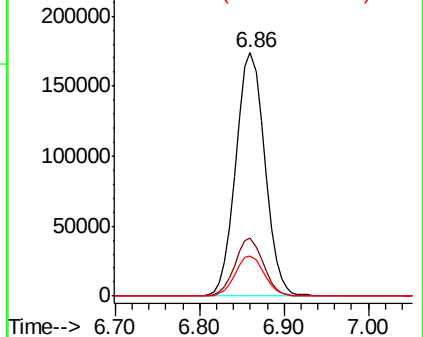
88 16.6 0.0 32.6

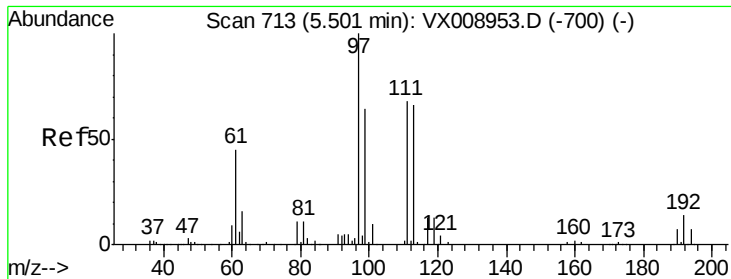


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

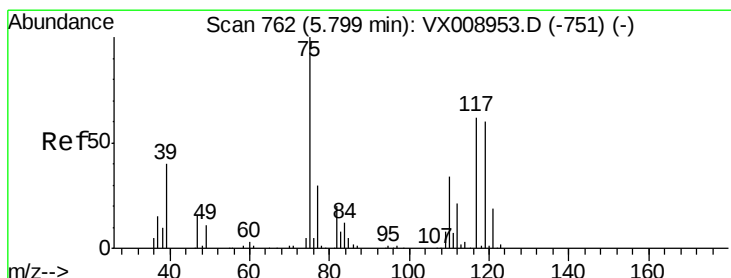
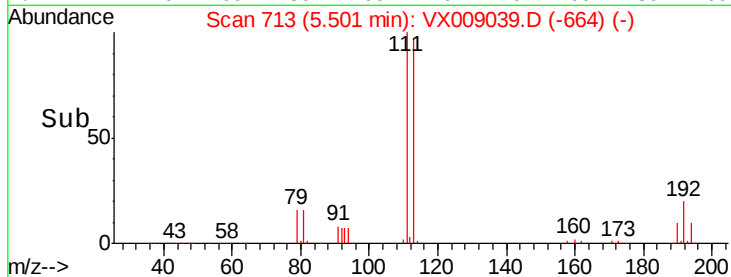
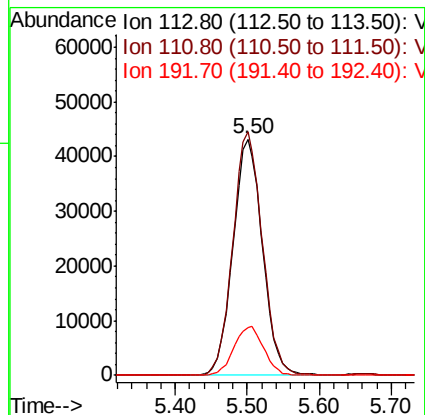
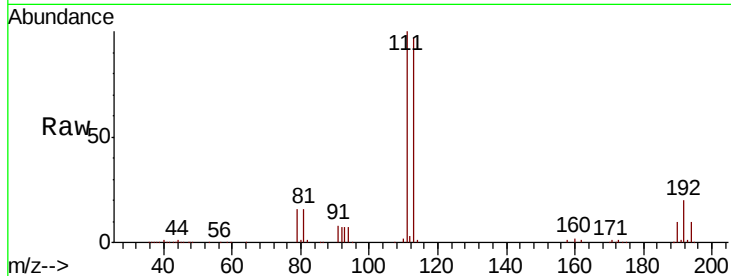




#35
 Dibromofluoromethane
 Concen: 47.215 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX009039.D
 Acq: 18 Apr 2019 13:24

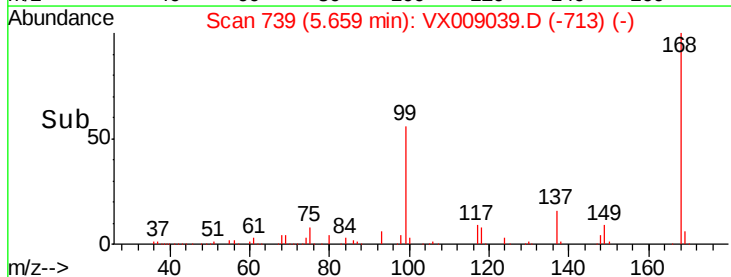
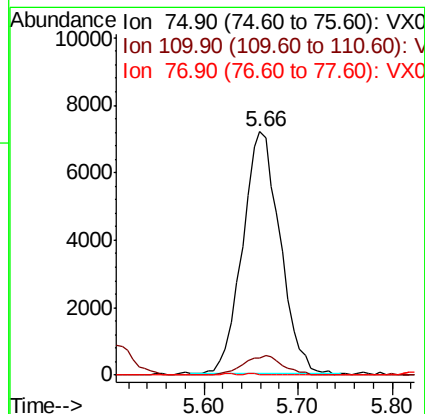
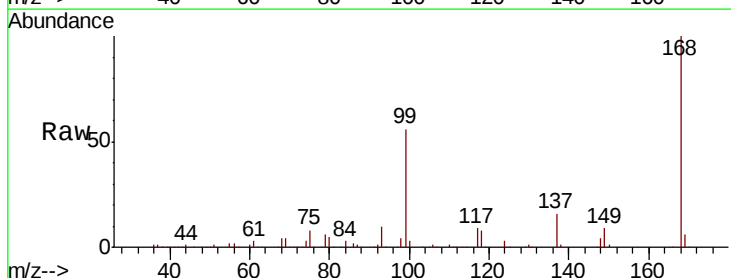
Instrument :
 MSVOA_X
 ClientSampleId :
 ST006RW153-190415

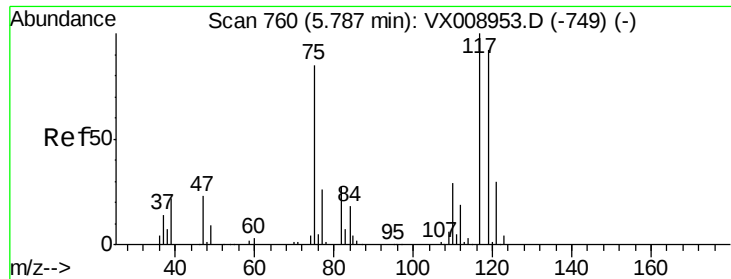
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.9	124.3
192	21.0	17.4	26.0



#36
 1,1-Dichloropropene
 Concen: 4.744 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009039.D
 Acq: 18 Apr 2019 13:24

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	16.9	50.7#
77	0.2	25.0	37.4#

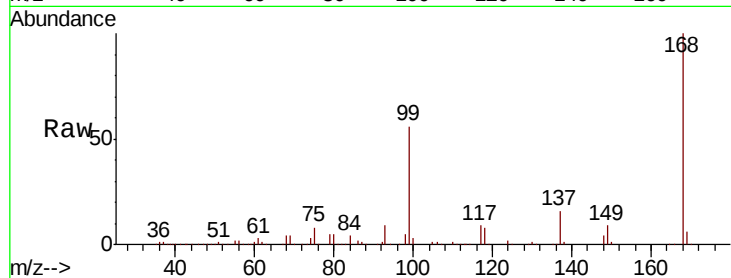




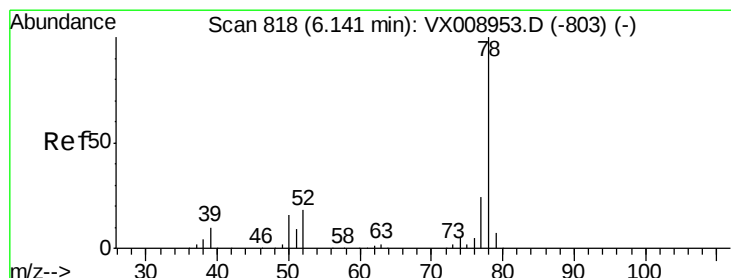
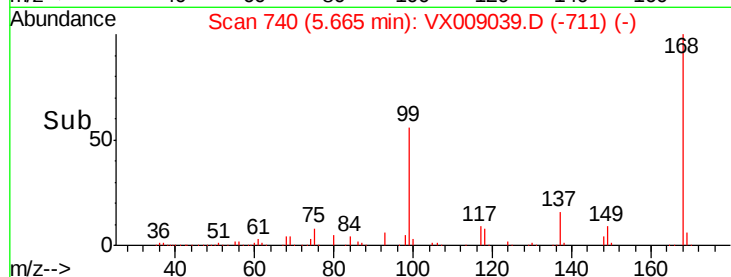
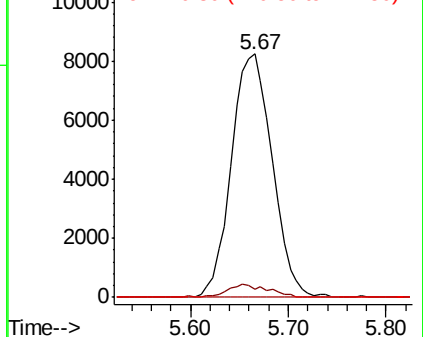
#38
Carbon Tetrachloride
Concen: 6.737 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX009039.D
Acq: 18 Apr 2019 13:24

Instrument :
MSVOA_X
ClientSampleId :
ST006RW153-190415

Tot Ion:117 Resp: 23907
Ion Ratio Lower Upper
117 100
119 3.3 73.8 110.8#
121 0.0 23.6 35.4#

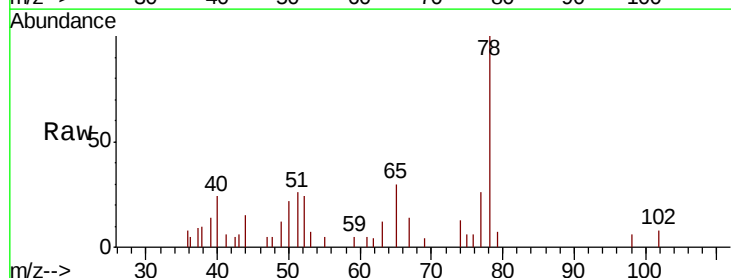


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

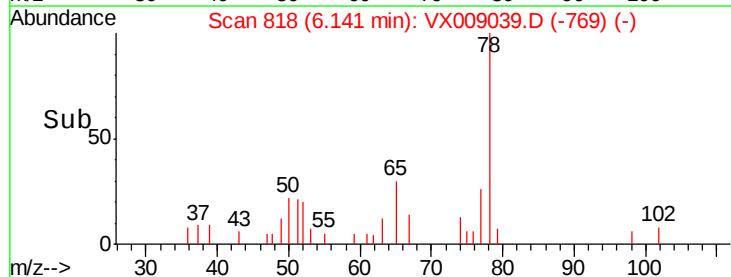
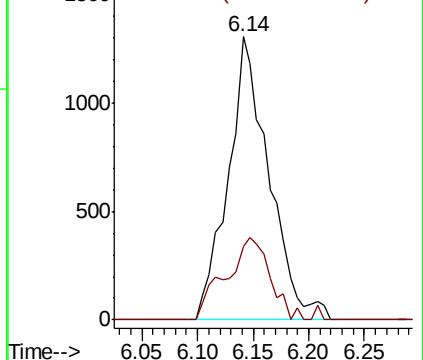


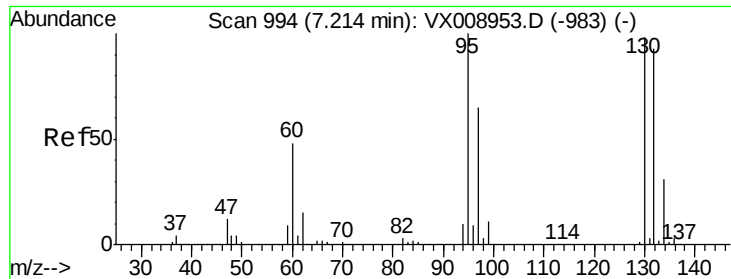
#40
Benzene
Concen: 0.270 ug/l
RT: 6.14 min Scan# 818
Delta R.T. 0.00 min
Lab File: VX009039.D
Acq: 18 Apr 2019 13:24

Tgt Ion: 78 Resp: 3328
Ion Ratio Lower Upper
78 100
77 26.1 19.0 28.6



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0

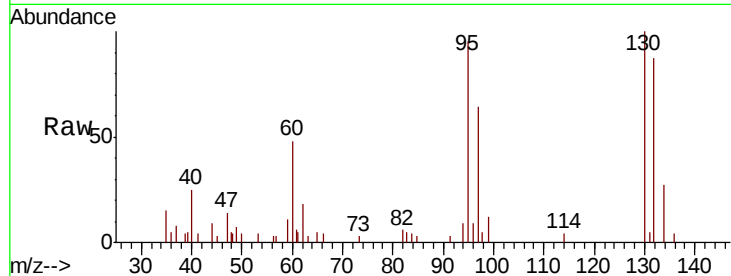




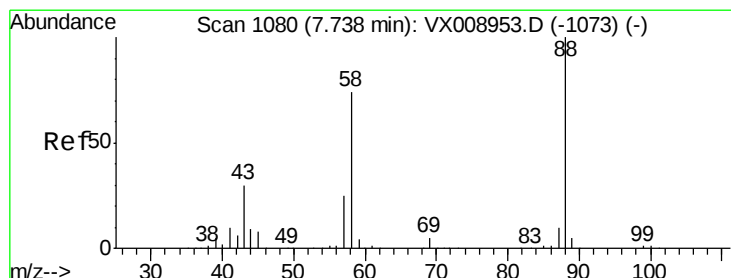
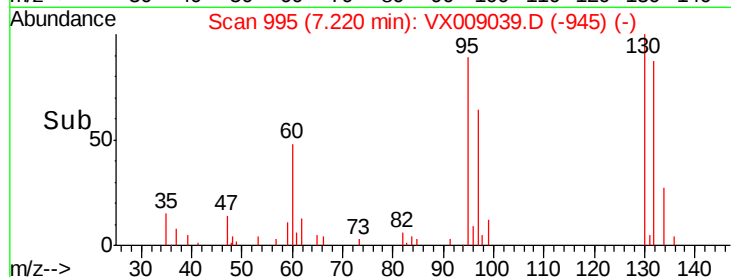
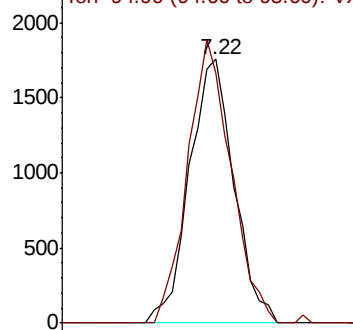
#44
 Trichloroethene
 Concen: 1.245 ug/l
 RT: 7.22 min Scan# 995
 Delta R.T. 0.01 min
 Lab File: VX009039.D
 Acq: 18 Apr 2019 13:24

Instrument :
 MSVOA_X
 ClientSampleId :
 ST006RW153-190415

Tot Ion:130 Resp: 3767
 Ion Ratio Lower Upper
 130 100
 95 94.7 0.0 203.2

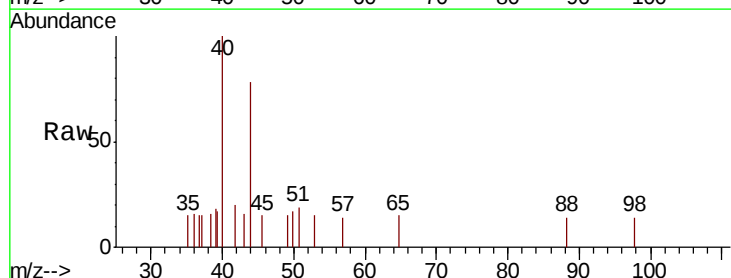


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0

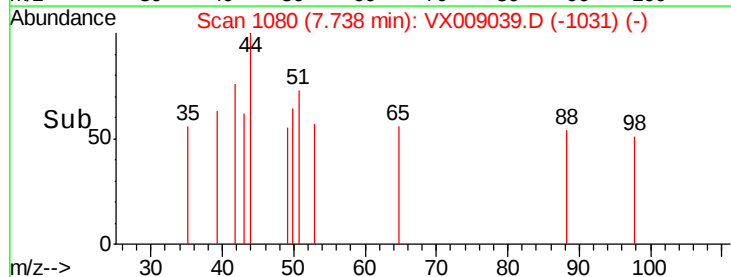
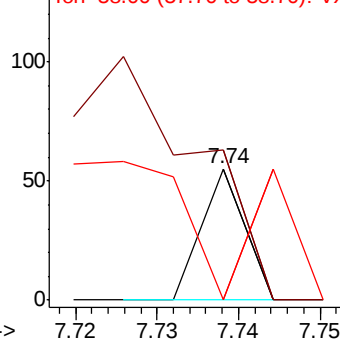


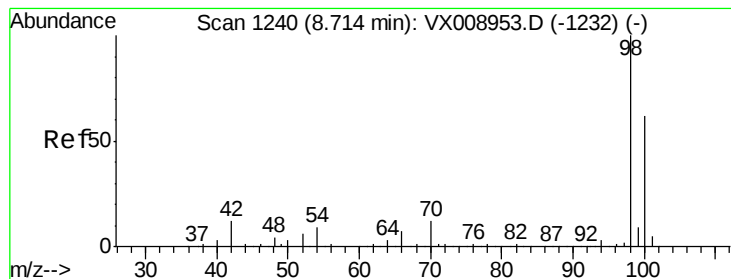
#49
 1,4-Dioxane
 Concen: 0.249 ug/l
 RT: 7.74 min Scan# 1080
 Delta R.T. 0.00 min
 Lab File: VX009039.D
 Acq: 18 Apr 2019 13:24

Tgt Ion: 88 Resp: 20
 Ion Ratio Lower Upper
 88 100
 43 0.0 29.3 43.9#
 58 405.0 62.6 93.8#



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: 48.200 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

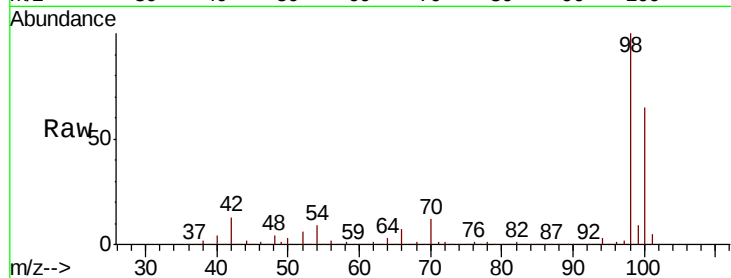
ST006RW153-190415

Tot Ion: 98 Resp: 499287

Ion Ratio Lower Upper

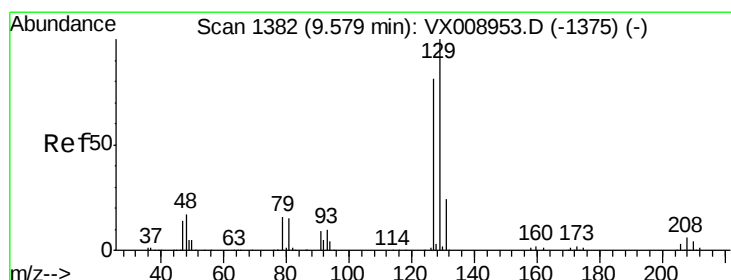
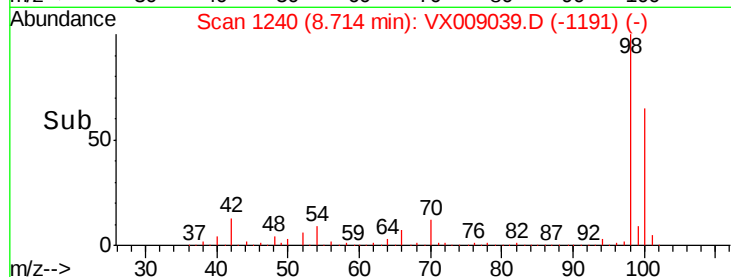
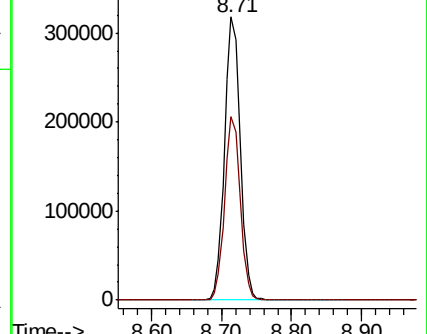
98 100

100 64.3 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 1.104 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX009039.D

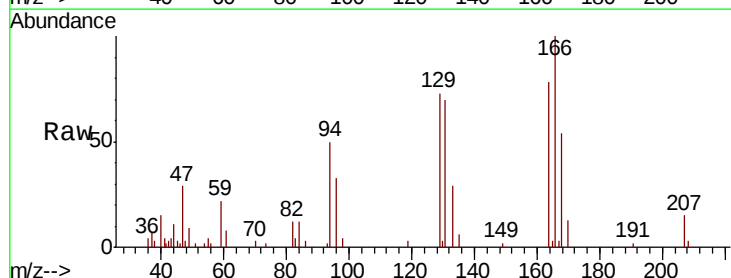
Acq: 18 Apr 2019 13:24

Tgt Ion:129 Resp: 3102

Ion Ratio Lower Upper

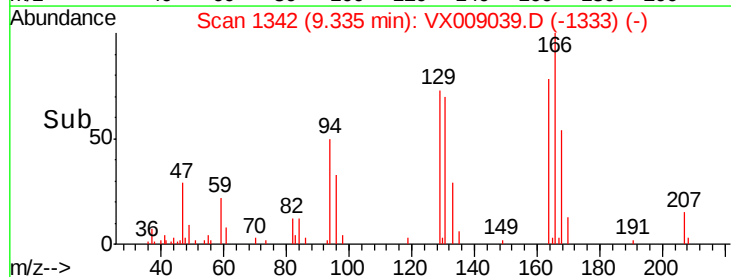
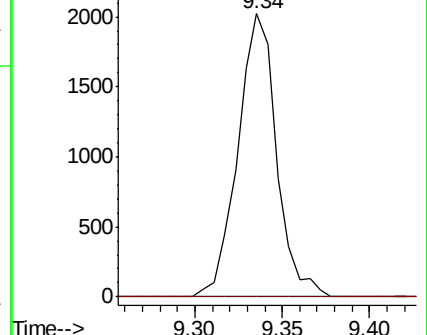
129 100

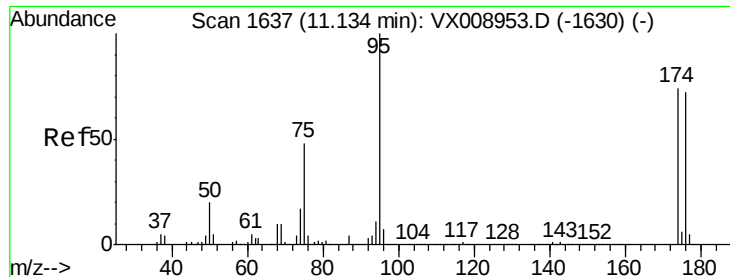
127 0.0 39.1 117.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 45.352 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

ST006RW153-190415

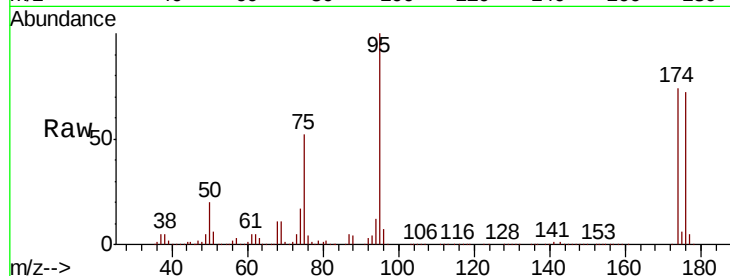
Tot Ion: 95 Resp: 165837

Ion Ratio Lower Upper

95 100

174 79.3 0.0 159.6

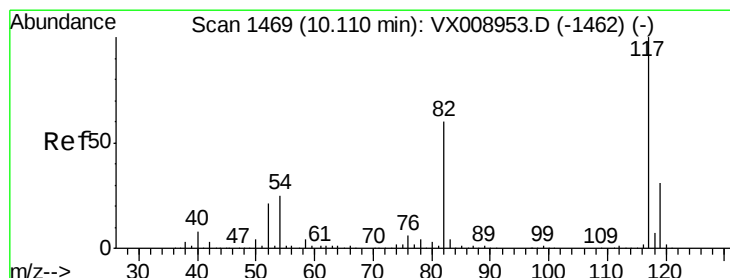
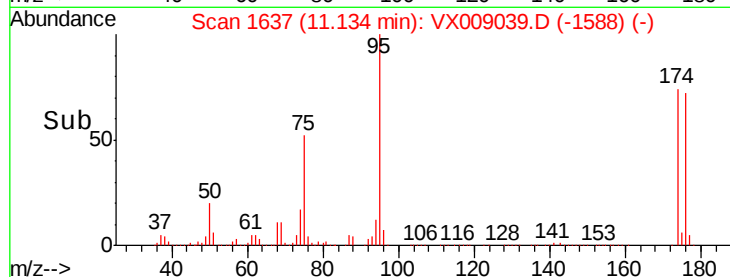
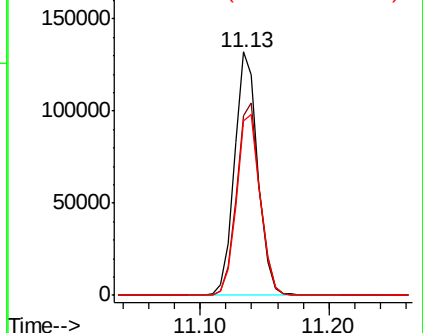
176 75.9 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX008953.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008953.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008953.D (-1630) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

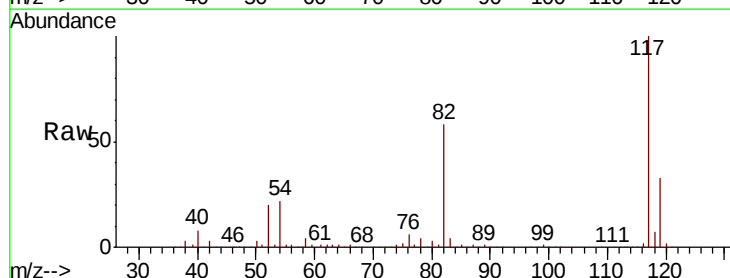
Tgt Ion: 117 Resp: 348337

Ion Ratio Lower Upper

117 100

82 58.3 48.2 72.4

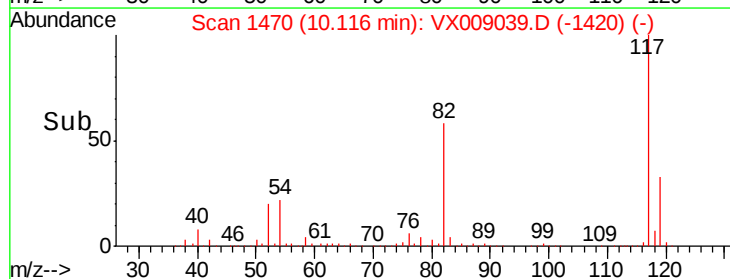
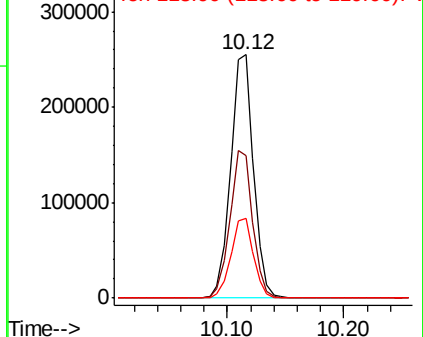
119 32.7 25.0 37.6

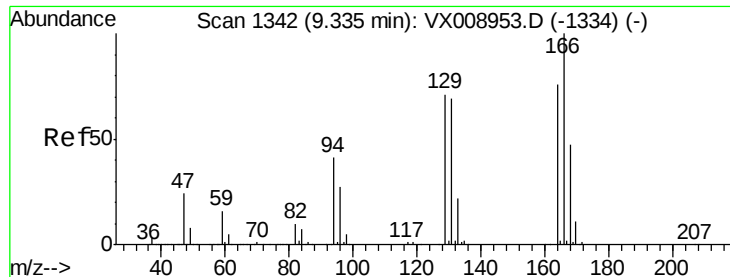


Abundance Ion 116.90 (116.60 to 117.60): VX008953.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008953.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008953.D (-1462) (-)

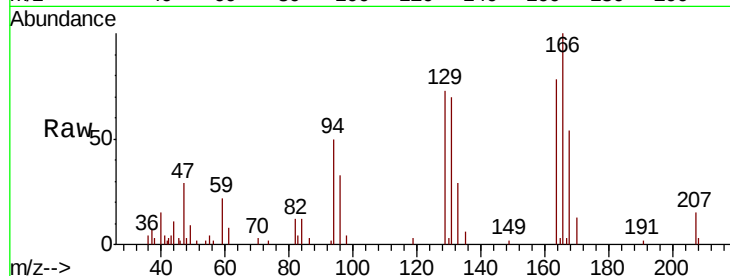




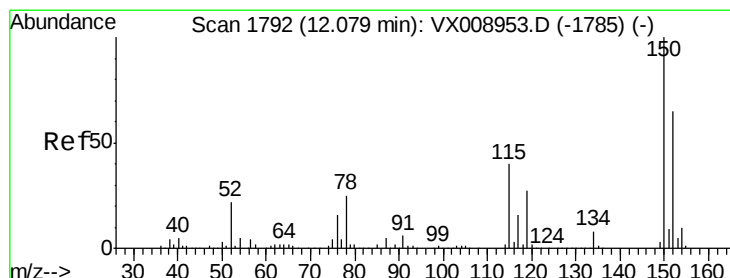
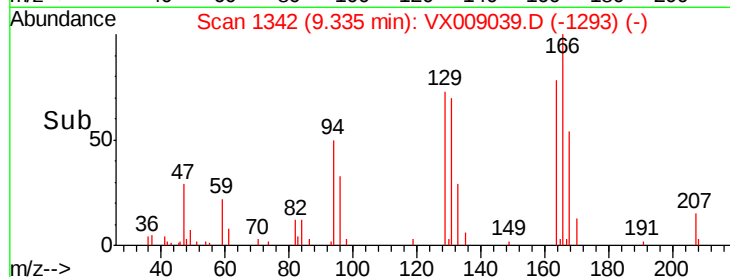
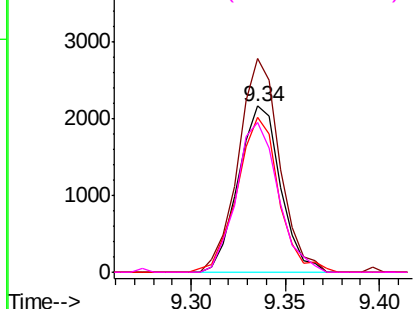
#64
Tetrachloroethene
Concen: 1.268 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX009039.D
Acq: 18 Apr 2019 13:24

Instrument :
MSVOA_X
ClientSampleId :
ST006RW153-190415

Tot Ion:164 Resp: 3355
Ion Ratio Lower Upper
164 100
166 128.6 105.0 157.4
129 93.4 74.2 111.4
131 90.3 72.2 108.2

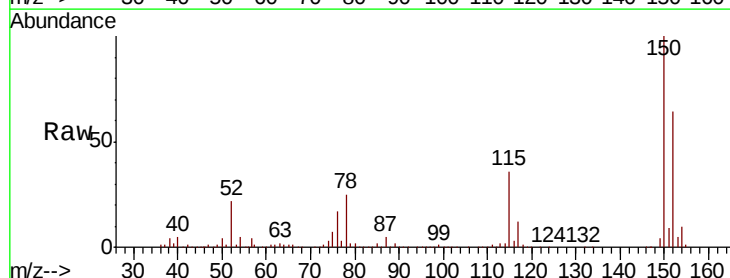


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

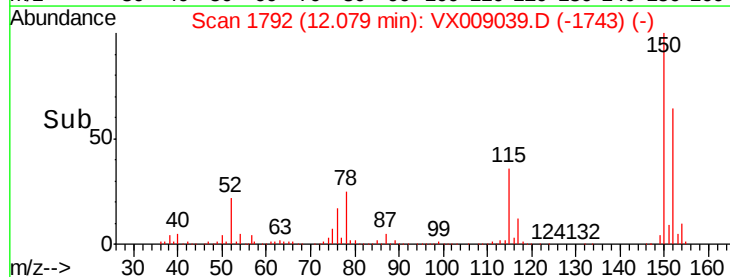
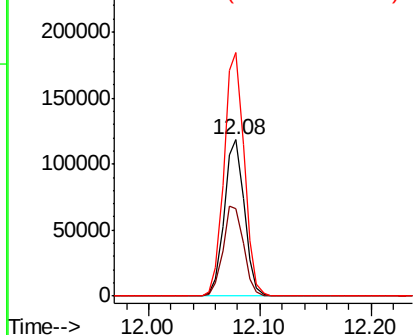


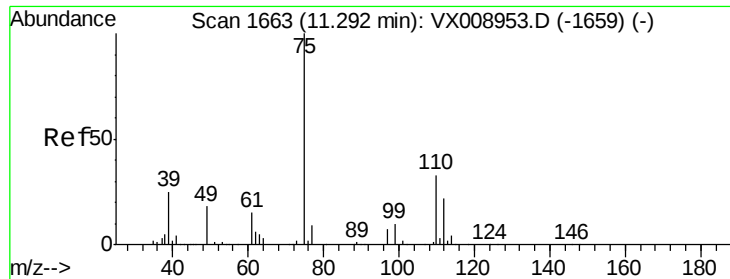
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009039.D
Acq: 18 Apr 2019 13:24

Tgt Ion:152 Resp: 147622
Ion Ratio Lower Upper
152 100
115 59.2 41.4 124.2
150 157.0 0.0 349.8



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: 23.623 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

Instrument :

MSVOA_X

ClientSampleId :

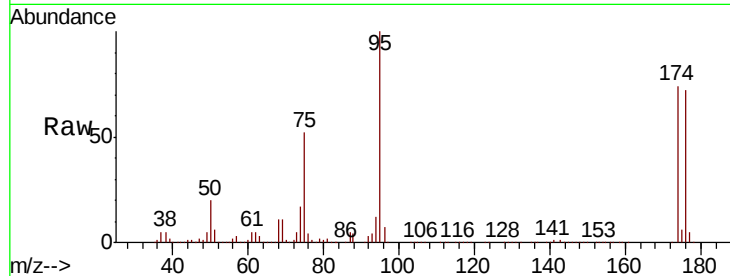
ST006RW153-190415

Tot Ion: 75 Resp: 85154

Ion Ratio Lower Upper

75 100

77 1.4 22.7 68.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

80000

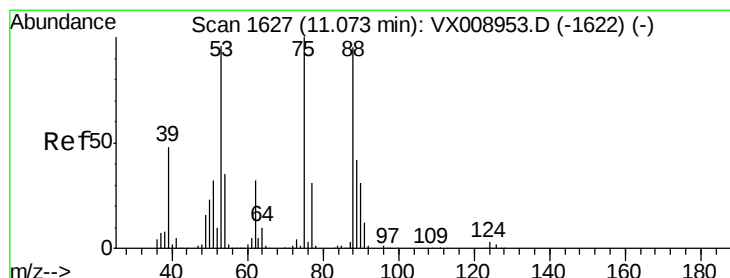
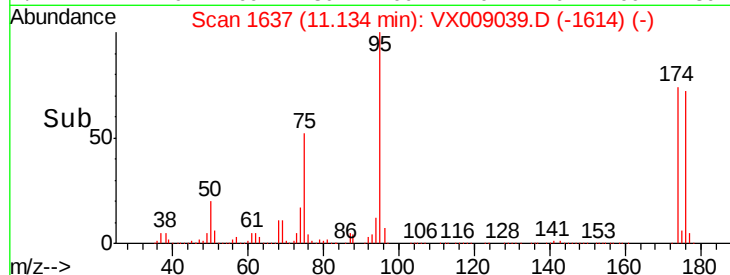
60000

40000

20000

0

Time--> 11.00 11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 60.648 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009039.D

Acq: 18 Apr 2019 13:24

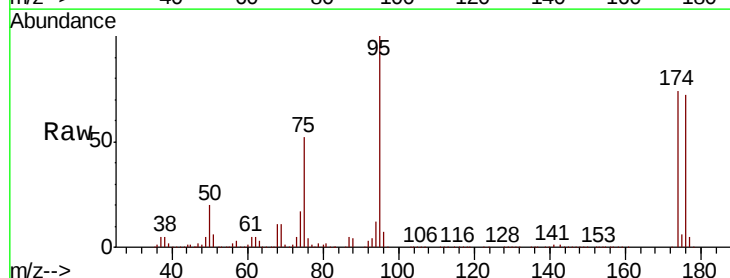
Tgt Ion: 75 Resp: 85154

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.1 36.0 54.0#



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

11.13

80000

60000

40000

20000

0

Time--> 11.00 11.10 11.20

