

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX042919\
 Data File : VX009209.D
 Acq On : 29 Apr 2019 15:52
 Operator : JC/SP
 Sample : VX0429WBL02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0429WBL02

Quant Time: Apr 30 07:16:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 30 07:03:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	197169	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	314702	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	266725	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	103408	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	127922	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
35) Dibromofluoromethane	5.49	113	94967	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
50) Toluene-d8	8.71	98	388871	48.69	ug/l	0.00
Spiked Amount			Recovery	=	97.38%	
62) 4-Bromofluorobenzene	11.13	95	123331	42.50	ug/l	0.00
Spiked Amount			Recovery	=	85.00%	

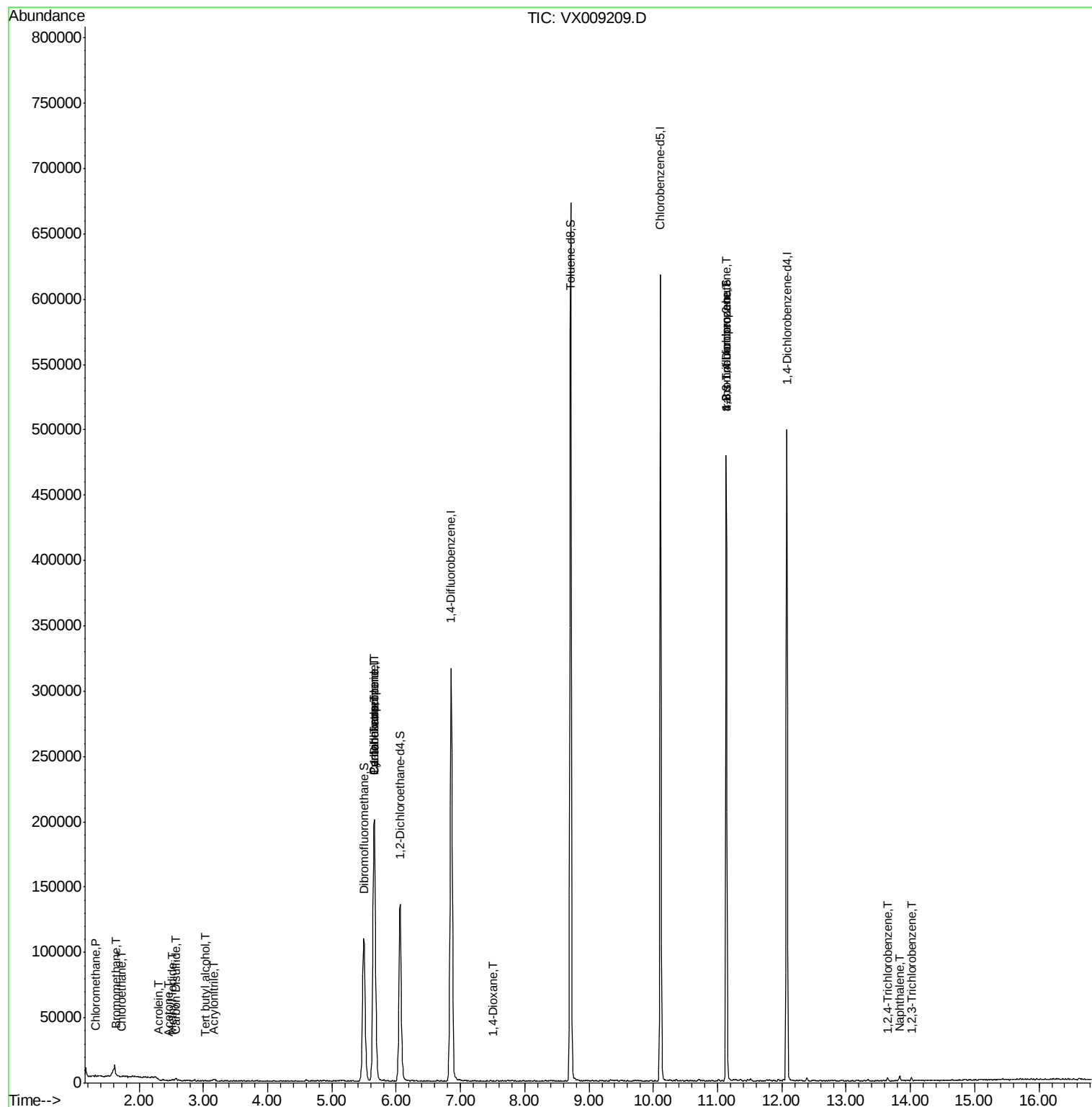
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	772	0.311	ug/l #	84
5) Bromomethane	1.64	94	991	0.683	ug/l	97
6) Chloroethane	1.72	64	363	0.234	ug/l	90
10) Methyl Iodide	2.51	142	803	4.934	ug/l #	90
11) Tert butyl alcohol	3.04	59	136	0.218	ug/l #	80
13) Acrolein	2.29	56	486	0.861	ug/l #	78
15) Acrylonitrile	3.15	53	615	0.404	ug/l #	70
16) Acetone	2.45	43	715	0.495	ug/l #	44
17) Carbon Disulfide	2.57	76	2122	0.409	ug/l #	91
28) Bromochloromethane	5.01	49	115	Below Cal	#	48
31) Cyclohexane	5.65	56	4326	1.087	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15029	5.139	ug/l #	51
38) Carbon Tetrachloride	5.65	117	18274	6.877	ug/l #	16
49) 1,4-Dioxane	7.51	88	19	0.290	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	61990	25.843	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	61990	66.124	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.65	180	641	0.277	ug/l	98
95) Naphthalene	13.83	128	2183	0.290	ug/l	97
96) 1,2,3-Trichlorobenzene	14.02	180	564	0.240	ug/l	82

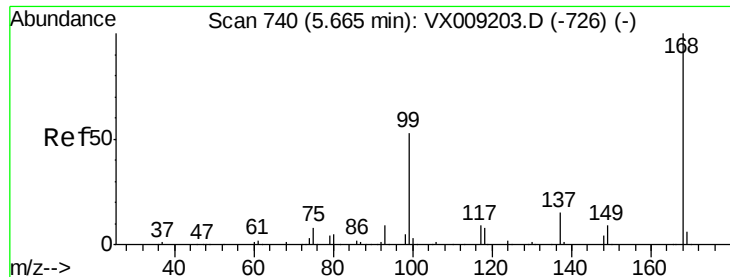
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX009209.D

Acq: 29 Apr 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

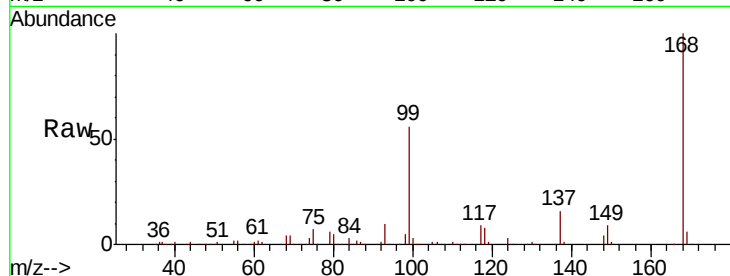
VX0429WBL02

Tgt Ion:168 Resp: 197169

Ion Ratio Lower Upper

168 100

99 56.0 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

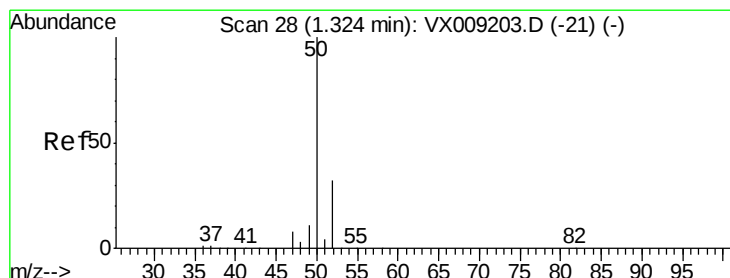
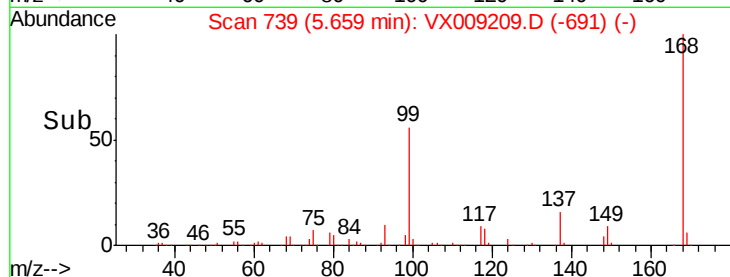
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.311 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009209.D

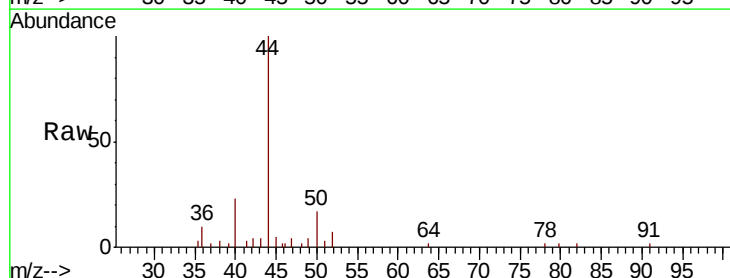
Acq: 29 Apr 2019 15:52

Tgt Ion: 50 Resp: 772

Ion Ratio Lower Upper

50 100

52 41.1 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

500

400

300

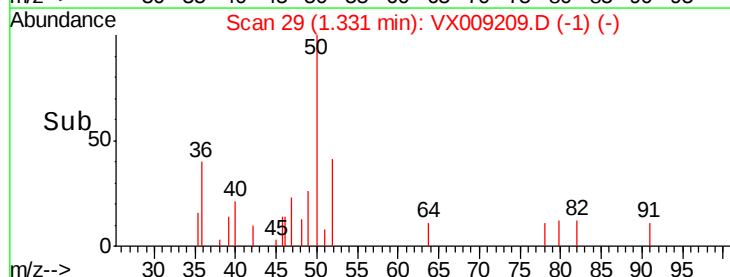
200

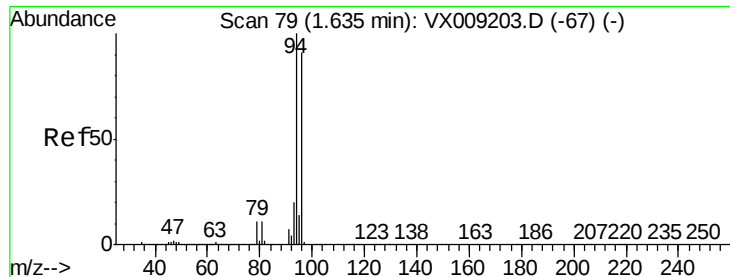
100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: 0.683 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX009209.D

Acq: 29 Apr 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

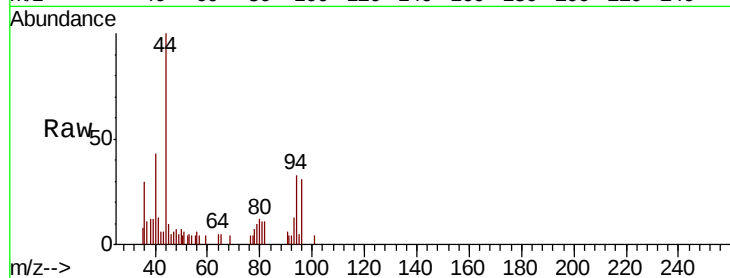
VX0429WBL02

Tgt Ion: 94 Resp: 991

Ion Ratio Lower Upper

94 100

96 94.0 73.0 109.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

500

400

300

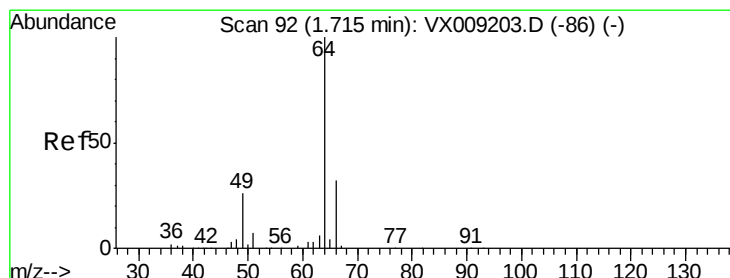
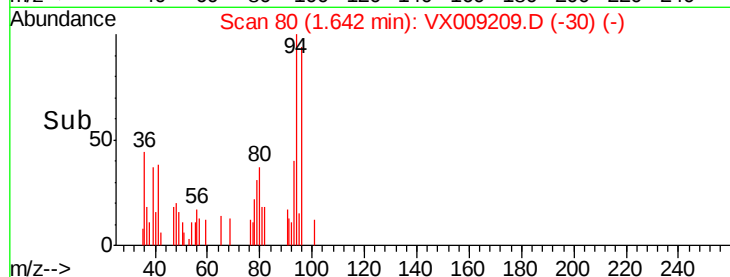
200

100

0

1.60 1.65 1.70 1.75

Time-->



#6

Chloroethane

Concen: 0.234 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX009209.D

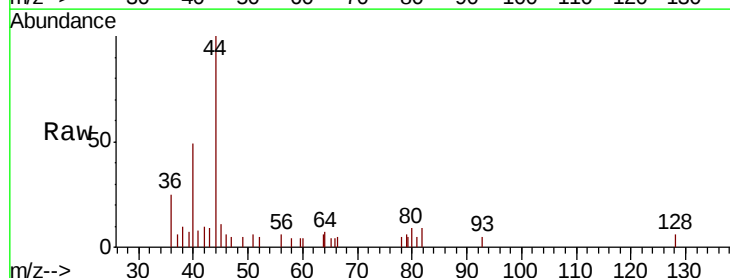
Acq: 29 Apr 2019 15:52

Tgt Ion: 64 Resp: 363

Ion Ratio Lower Upper

64 100

66 37.1 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

200

150

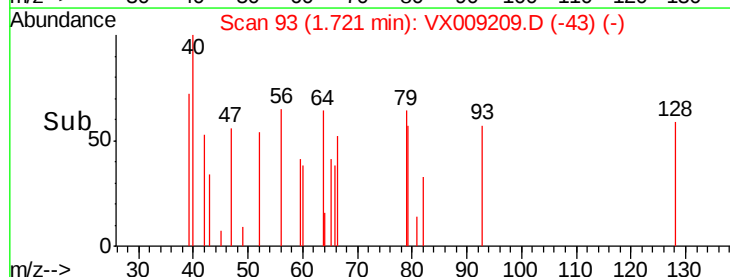
100

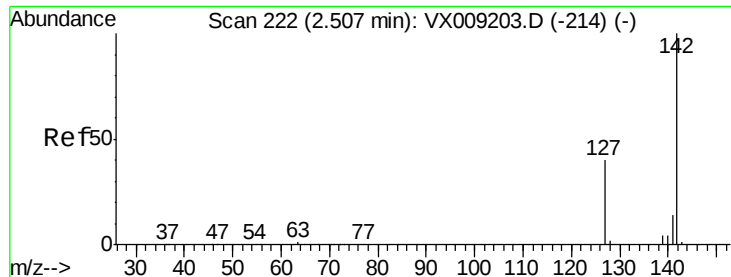
50

0

1.68 1.70 1.72 1.74 1.76

Time-->

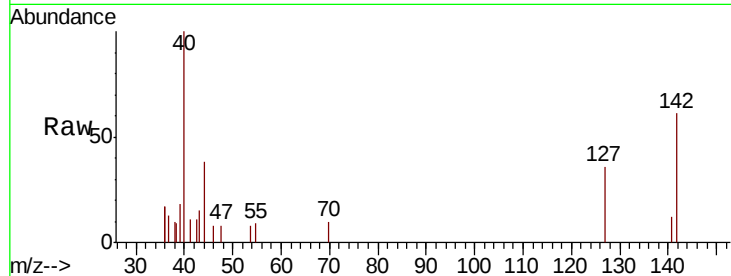




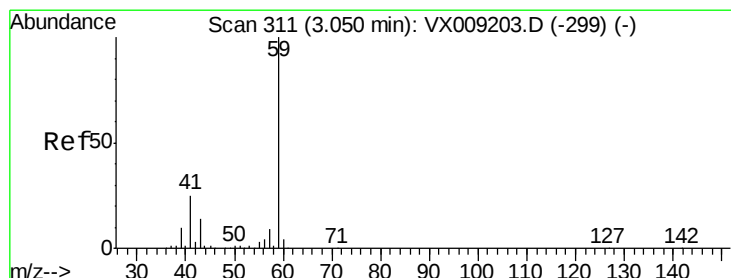
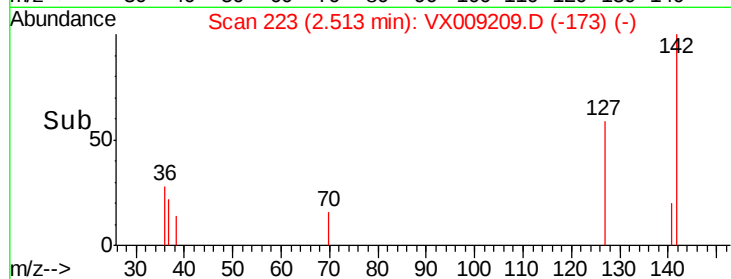
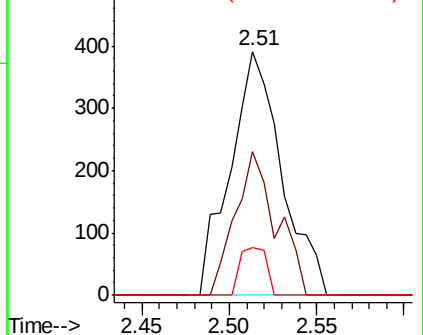
#10
Methyl Iodide
Concen: 4.934 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX009209.D
Acq: 29 Apr 2019 15:52

Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL02

Tgt Ion: 142 Resp: 803
Ion Ratio Lower Upper
142 100
127 46.8 32.7 49.1
141 10.0 11.5 17.3#

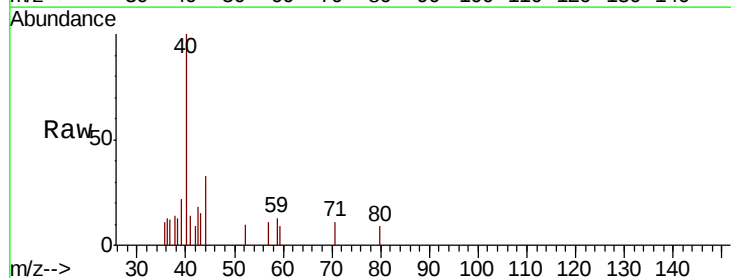


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

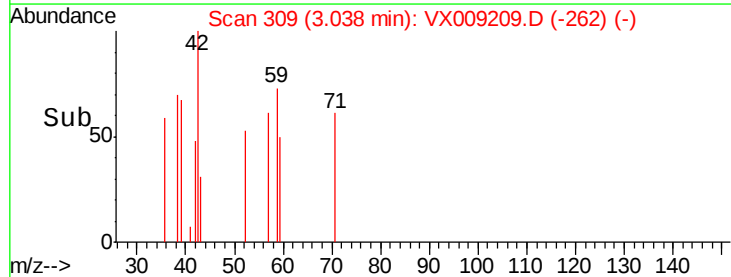
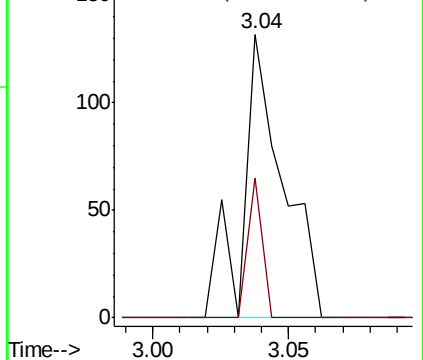


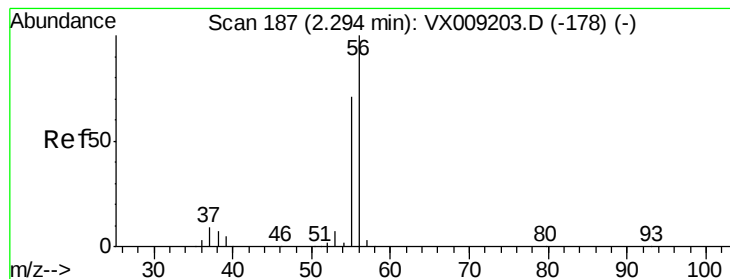
#11
Tert butyl alcohol
Concen: 0.218 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX009209.D
Acq: 29 Apr 2019 15:52

Tgt Ion: 59 Resp: 136
Ion Ratio Lower Upper
59 100
57 17.6 8.2 12.2#



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





#13

Acrolein

Concen: 0.861 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX009209.D

Acq: 29 Apr 2019 15:52

Instrument :

MSVOA_X

ClientSampled :

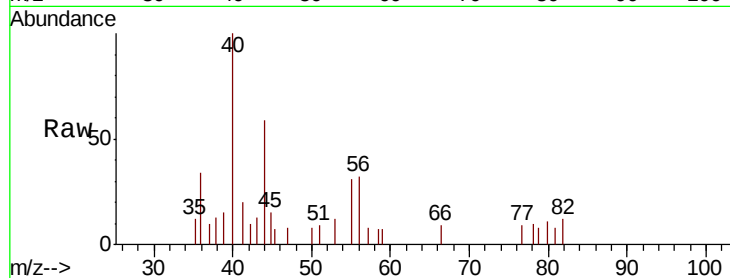
VX0429WBL02

Tgt Ion: 56 Resp: 486

Ion Ratio Lower Upper

56 100

55 89.1 56.6 85.0#



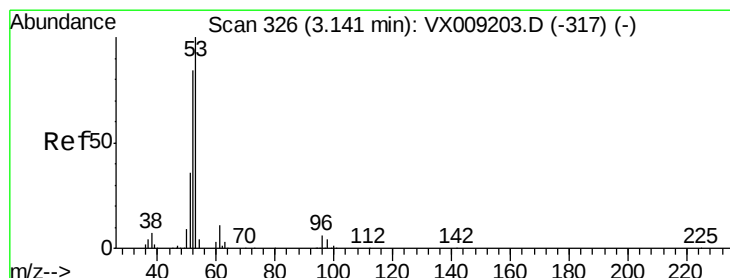
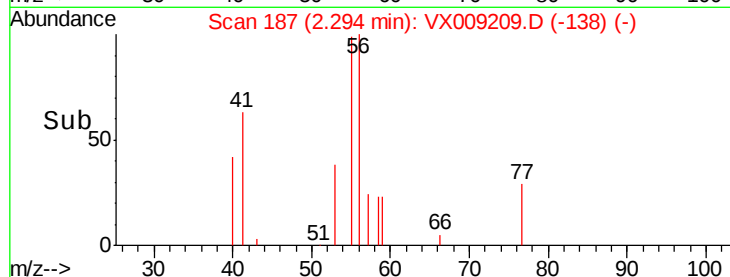
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

2.25 2.30 2.35

Time-->



#15

Acrylonitrile

Concen: 0.404 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX009209.D

Acq: 29 Apr 2019 15:52

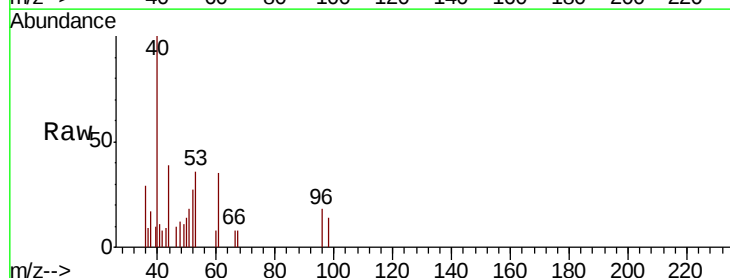
Tgt Ion: 53 Resp: 615

Ion Ratio Lower Upper

53 100

52 105.9 66.9 100.3#

51 60.0 28.2 42.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

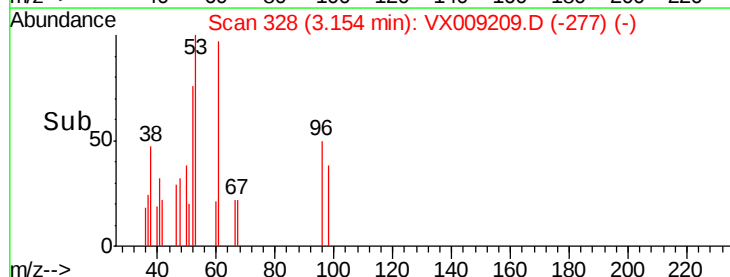
Ion 52.00 (51.70 to 52.70): VX0

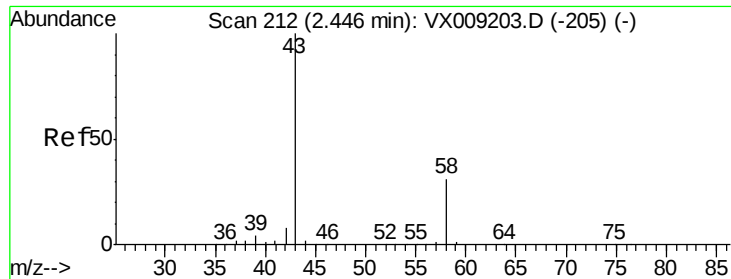
Ion 51.00 (50.70 to 51.70): VX0

3.15

3.10 3.15 3.20

Time-->





#16

Acetone

Concen: 0.495 ug/l

RT: 2.45 min Scan# 213

Delta R.T. 0.01 min

Lab File: VX009209.D

Acq: 29 Apr 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

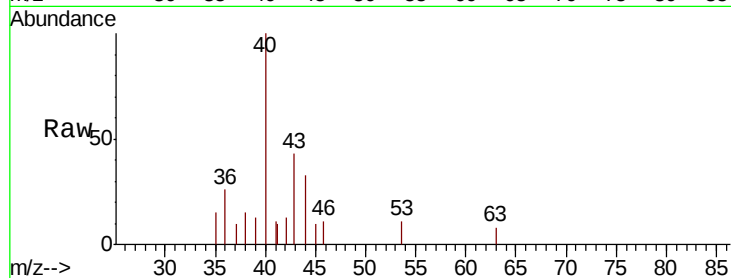
VX0429WBL02

Tgt Ion: 43 Resp: 715

Ion Ratio Lower Upper

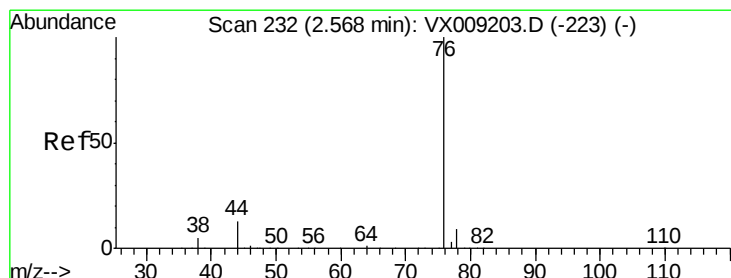
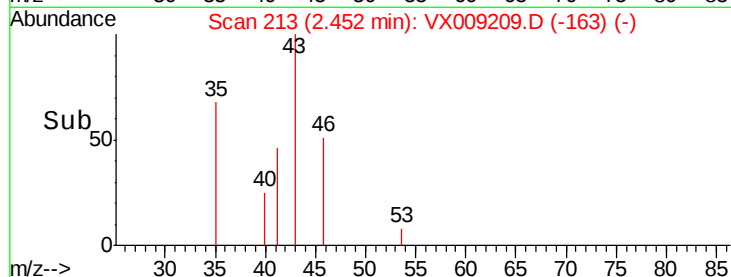
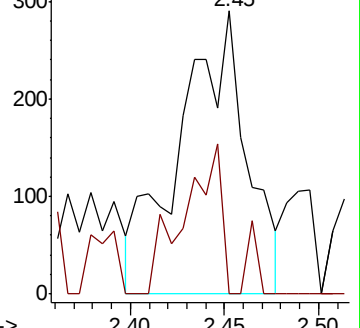
43 100

58 0.0 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.409 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009209.D

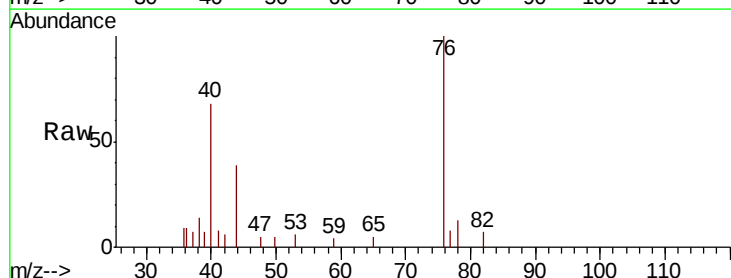
Acq: 29 Apr 2019 15:52

Tgt Ion: 76 Resp: 2122

Ion Ratio Lower Upper

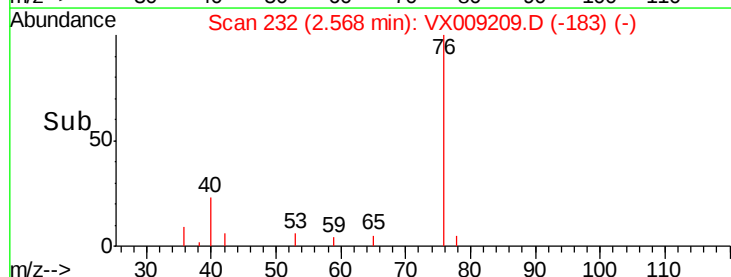
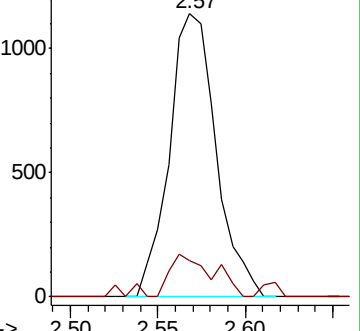
76 100

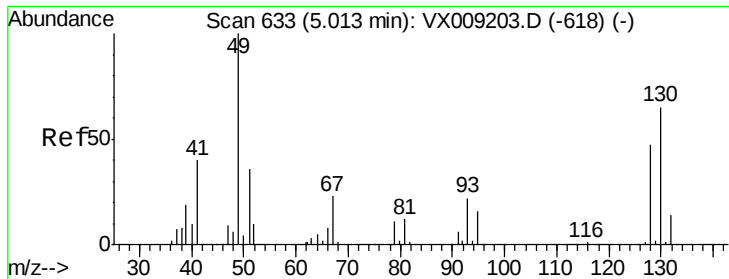
78 12.6 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX009209.D

Acq: 29 Apr 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

VX0429WBL02

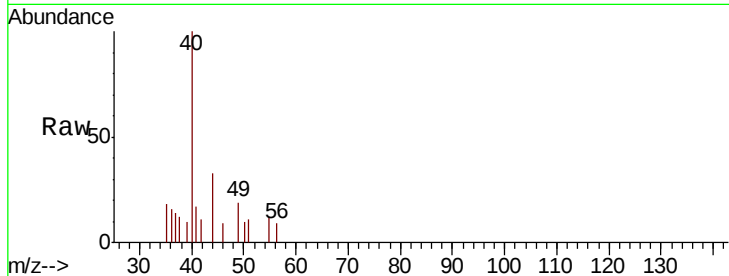
Tgt Ion: 49 Resp: 115

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

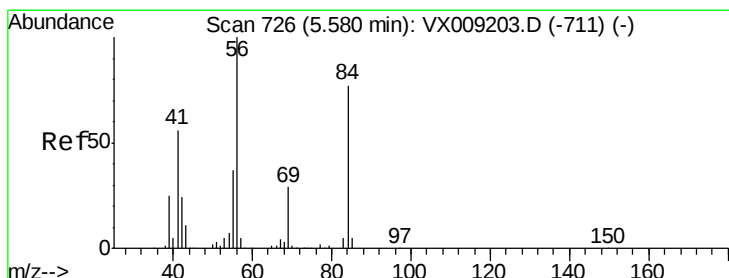
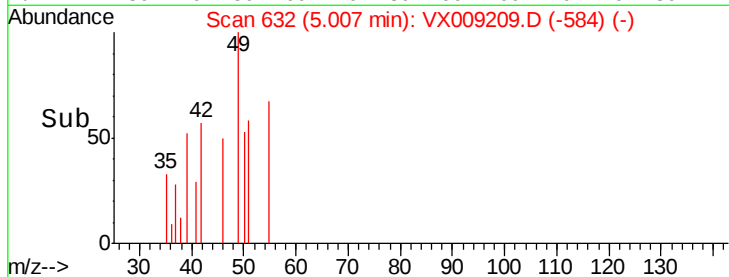
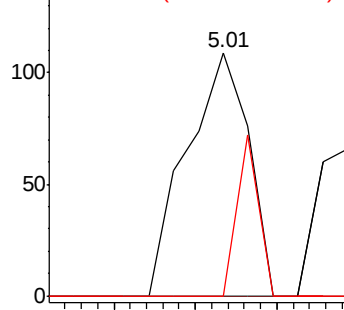
130 22.6 51.2 76.8#



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



#31

Cyclohexane

Concen: 1.087 ug/l

RT: 5.65 min Scan# 738

Delta R.T. 0.07 min

Lab File: VX009209.D

Acq: 29 Apr 2019 15:52

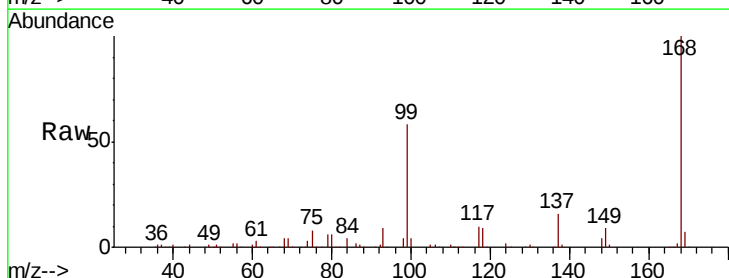
Tgt Ion: 56 Resp: 4326

Ion Ratio Lower Upper

56 100

69 155.9 23.4 35.0#

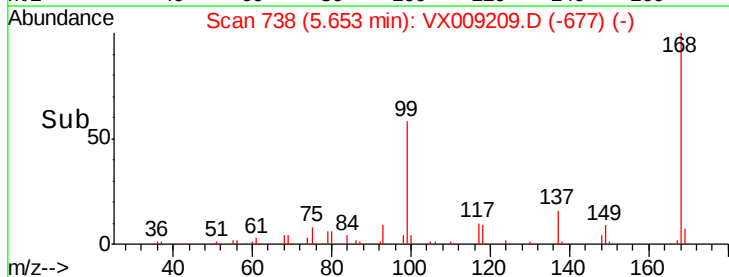
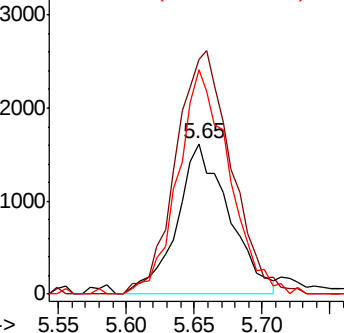
84 148.6 61.9 92.9#



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: 47.527 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX009209.D

Acq: 29 Apr 2019 15:52

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MSVOA_X

ClientSampleId :

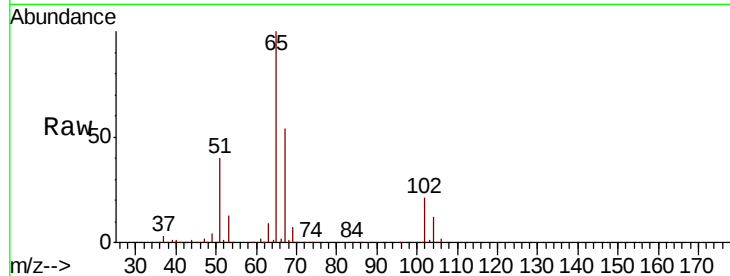
VX0429WBL02

Tgt Ion: 65 Resp: 127922

Ion Ratio Lower Upper

65 100

67 53.8 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

30000

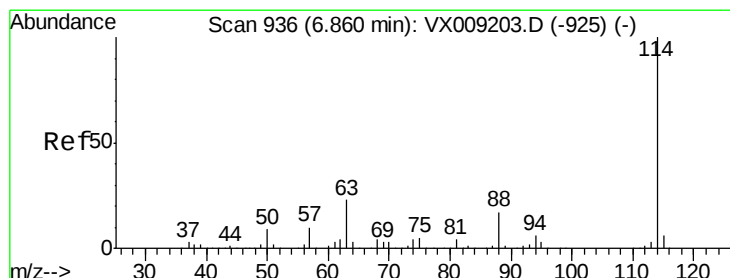
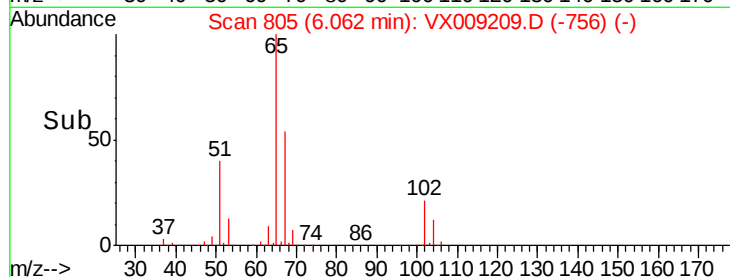
20000

10000

0

Time-->

5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX009209.D

Acq: 29 Apr 2019 15:52

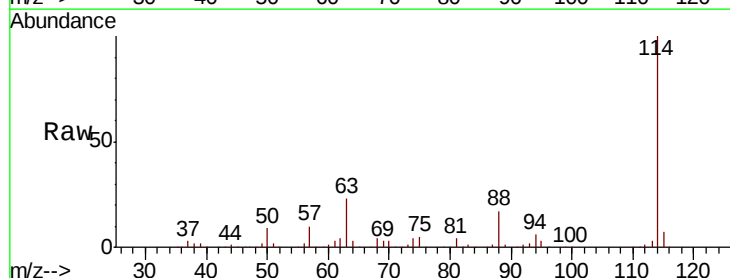
Tgt Ion: 114 Resp: 314702

Ion Ratio Lower Upper

114 100

63 23.2 0.0 45.6

88 16.9 0.0 33.2



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

6.85

150000

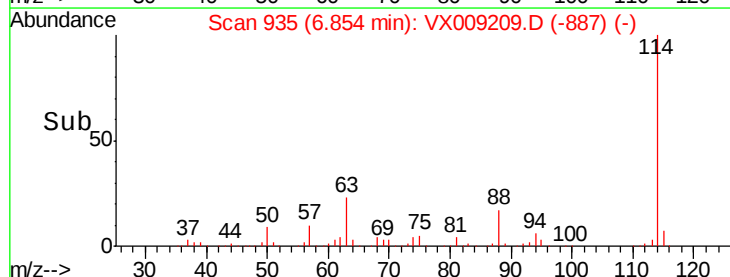
100000

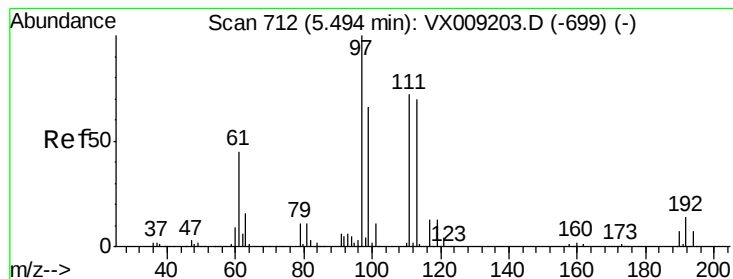
50000

0

Time-->

6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 48.003 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX009209.D

Acq: 29 Apr 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

VX0429WBL02

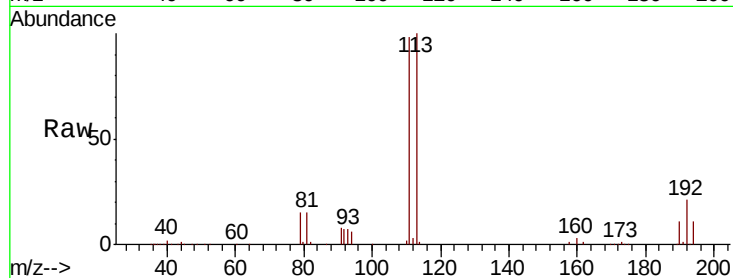
Tgt Ion:113 Resp: 94967

Ion Ratio Lower Upper

113 100

111 102.3 82.8 124.2

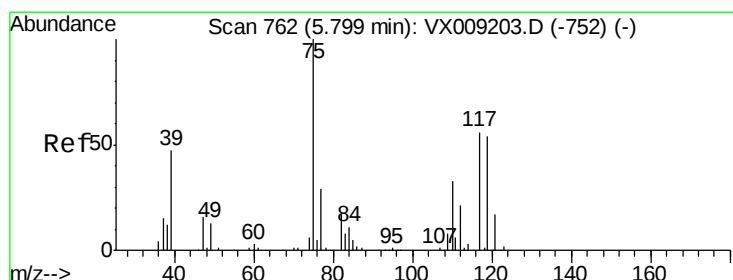
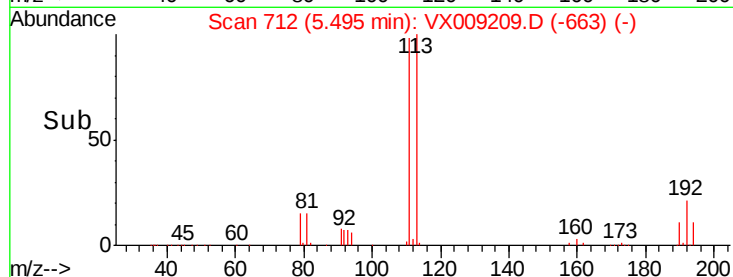
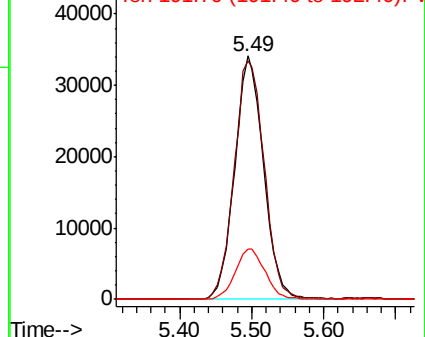
192 21.4 17.0 25.6



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: 5.139 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX009209.D

Acq: 29 Apr 2019 15:52

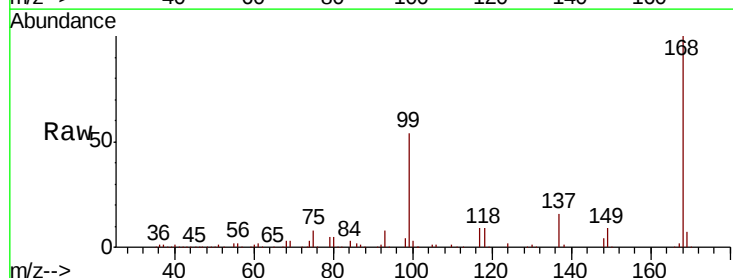
Tgt Ion: 75 Resp: 15029

Ion Ratio Lower Upper

75 100

110 9.0 16.9 50.6#

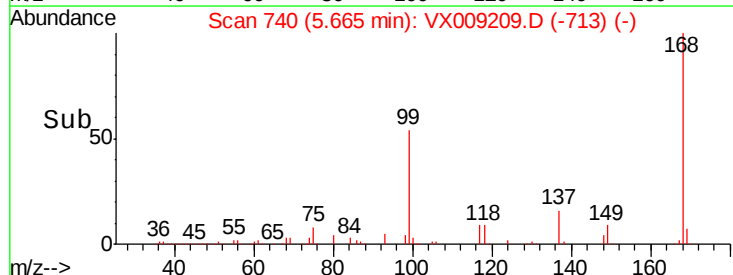
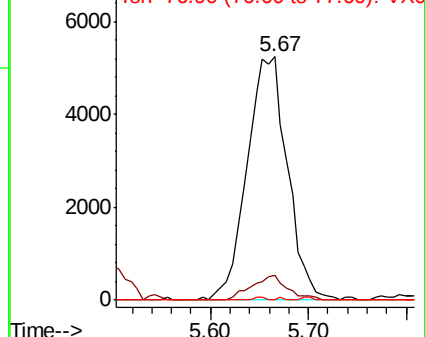
77 0.2 24.8 37.2#

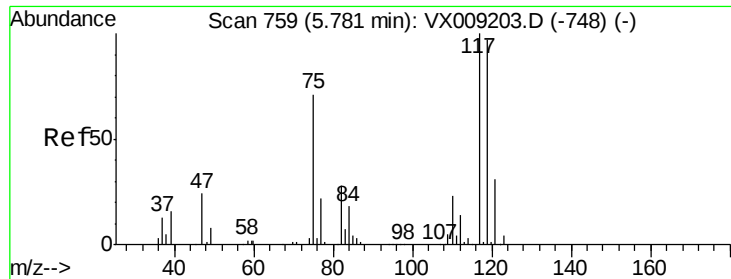


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.877 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX009209.D

Acq: 29 Apr 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

VX0429WBL02

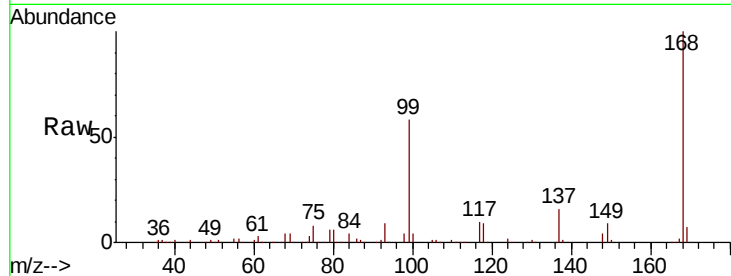
Tgt Ion: 117 Resp: 18274

Ion Ratio Lower Upper

117 100

119 5.1 77.5 116.3#

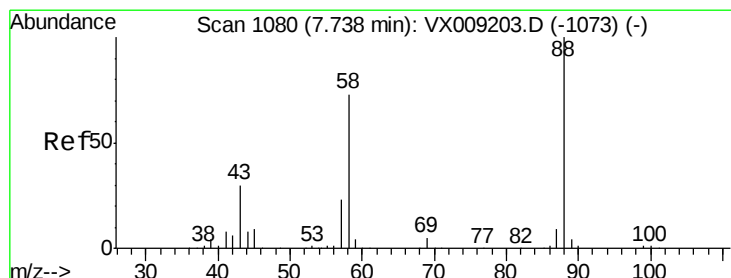
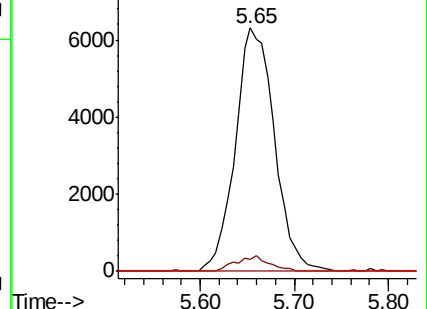
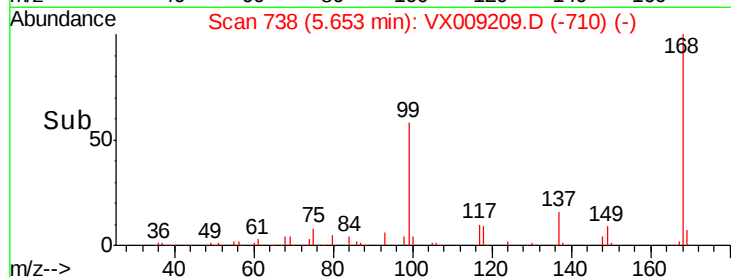
121 0.0 24.7 37.1#



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



#49

1,4-Dioxane

Concen: 0.290 ug/l

RT: 7.51 min Scan# 1042

Delta R.T. -0.23 min

Lab File: VX009209.D

Acq: 29 Apr 2019 15:52

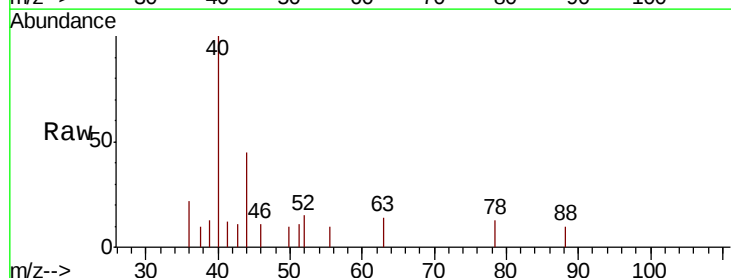
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 515.8 28.6 42.8#

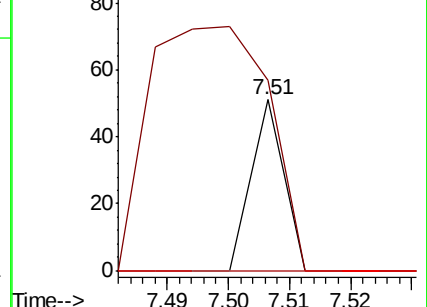
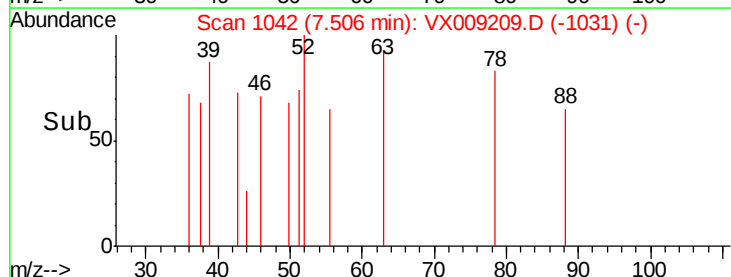
58 0.0 61.7 92.5#

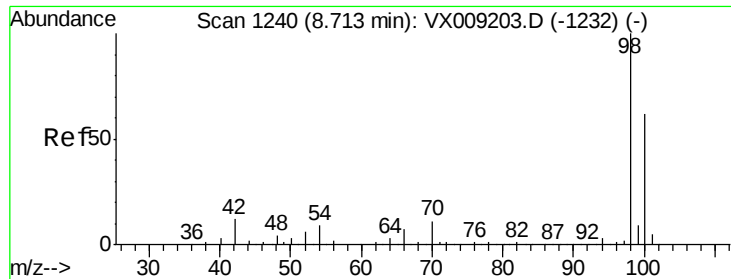


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 48.688 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009209.D

Acq: 29 Apr 2019 15:52

Instrument :

MSVOA_X

ClientSampleId :

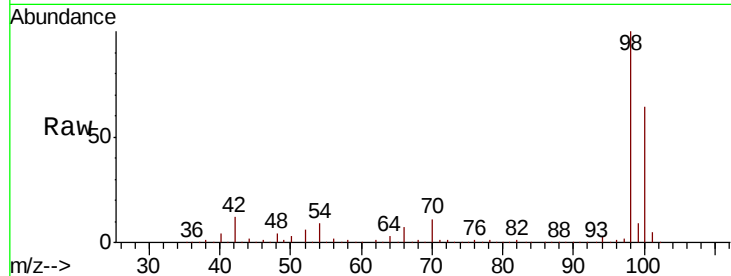
VX0429WBL02

Tgt Ion: 98 Resp: 388871

Ion Ratio Lower Upper

98 100

100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

150000

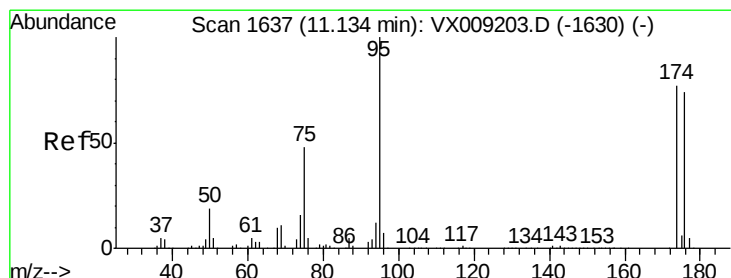
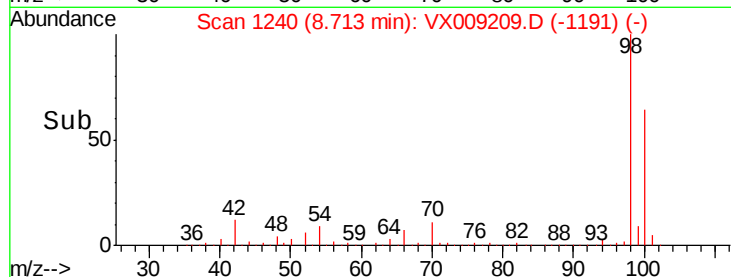
100000

50000

0

Time-->

8.60 8.70 8.80 8.90



#62

4-Bromofluorobenzene

Concen: 42.496 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009209.D

Acq: 29 Apr 2019 15:52

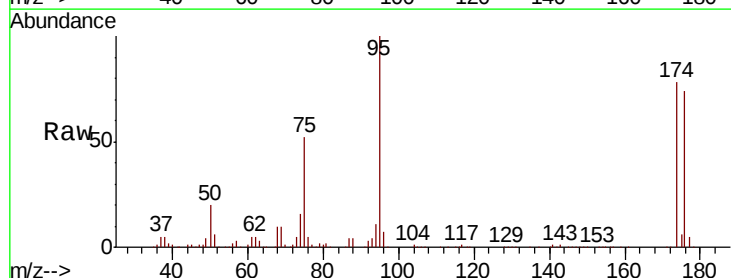
Tgt Ion: 95 Resp: 123331

Ion Ratio Lower Upper

95 100

174 80.3 0.0 161.6

176 78.2 0.0 159.2



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13

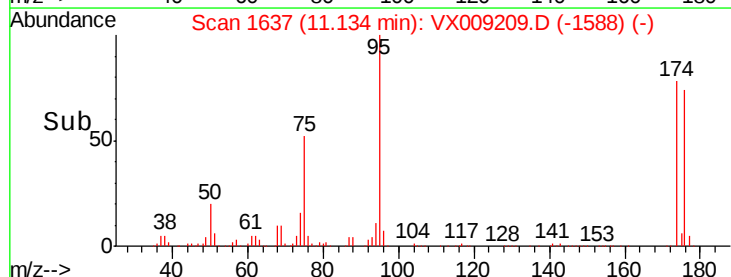
100000

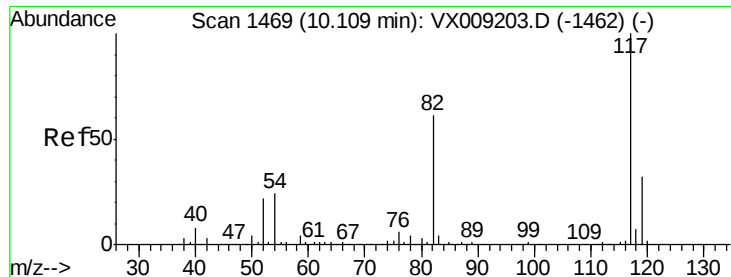
50000

0

Time-->

11.10 11.20

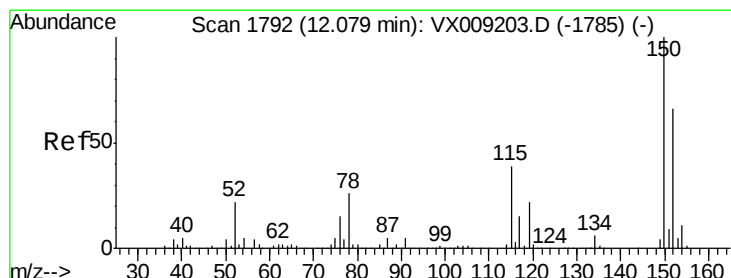
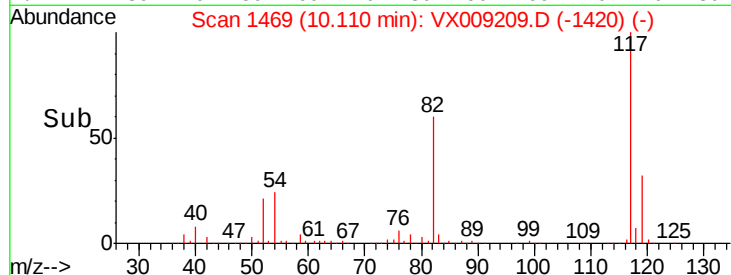
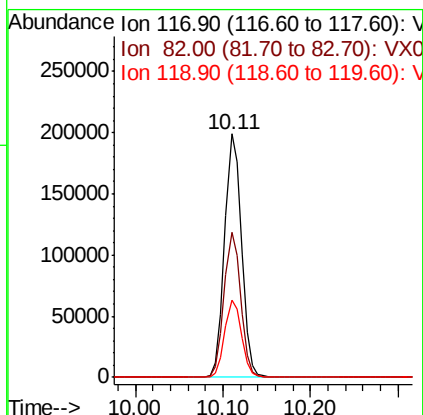
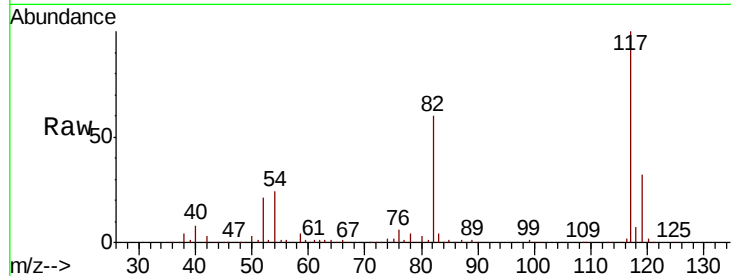




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009209.D
Acq: 29 Apr 2019 15:52

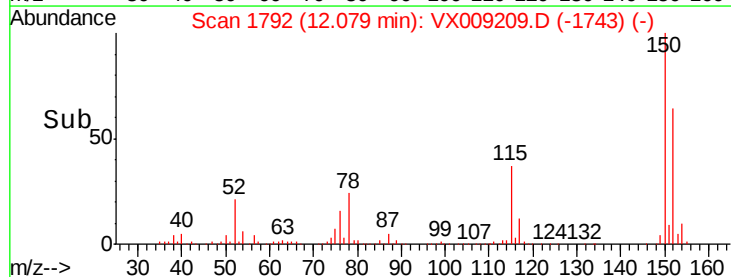
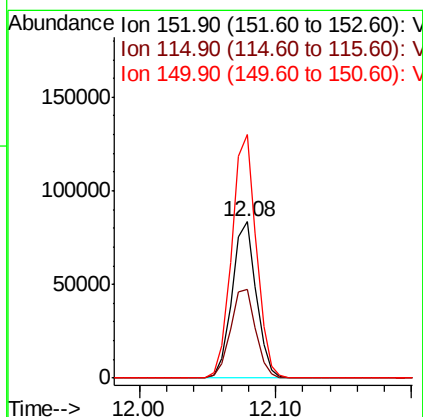
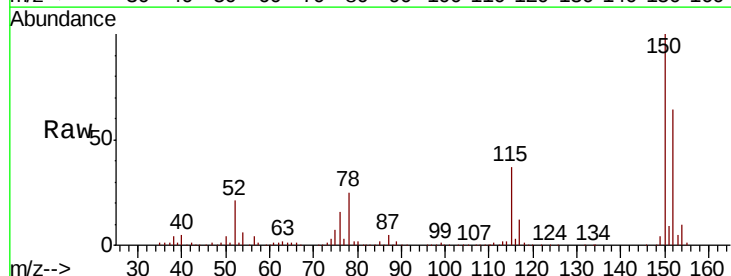
Instrument :
MSVOA_X
ClientSampleId :
VX0429WBL02

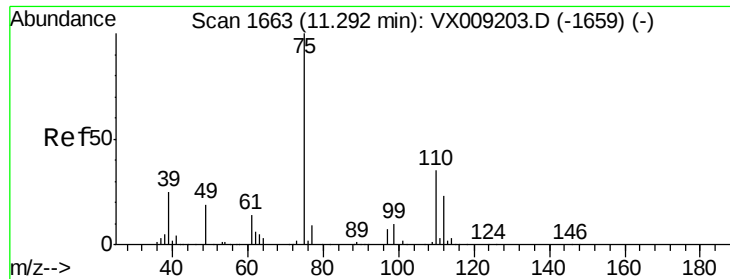
Tgt Ion:117 Resp: 266725
Ion Ratio Lower Upper
117 100
82 59.6 48.8 73.2
119 31.7 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009209.D
Acq: 29 Apr 2019 15:52

Tgt Ion:152 Resp: 103408
Ion Ratio Lower Upper
152 100
115 59.3 41.2 123.6
150 157.5 0.0 346.4

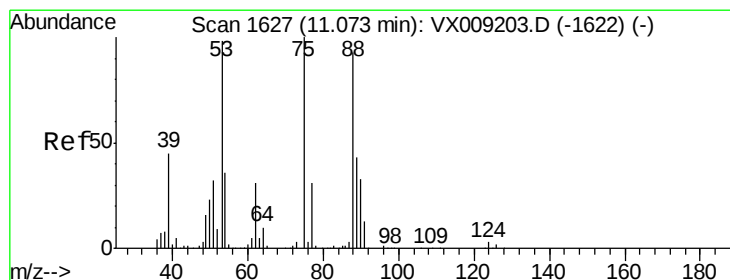
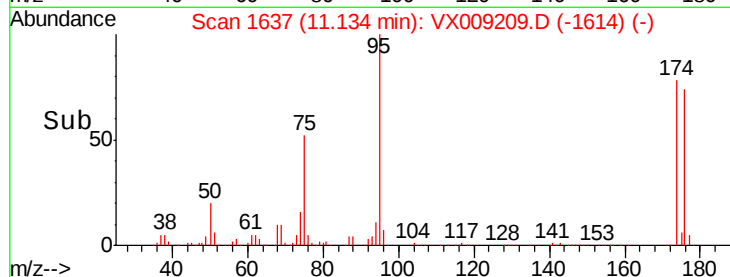
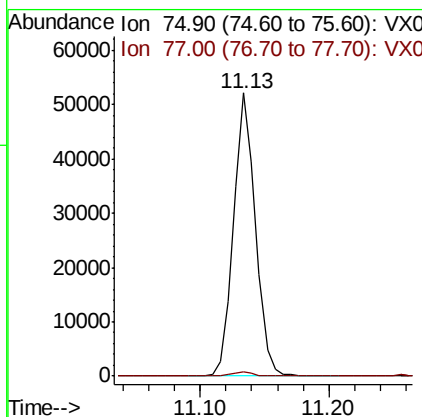
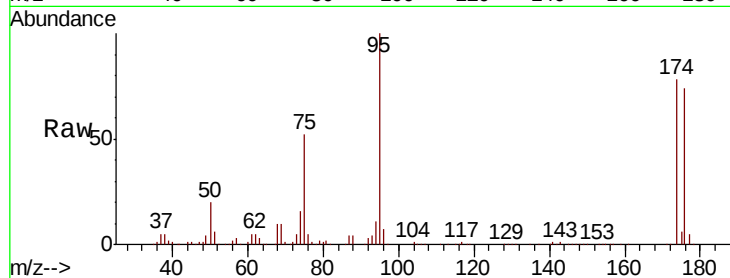




#76
 1,2,3-Trichloropropane
 Concen: 25.843 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009209.D
 Acq: 29 Apr 2019 15:52

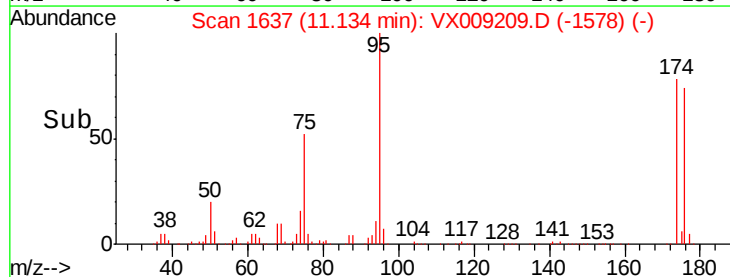
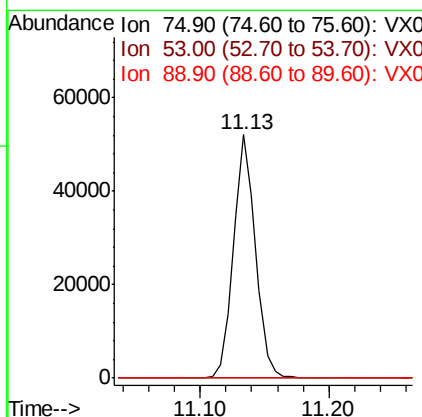
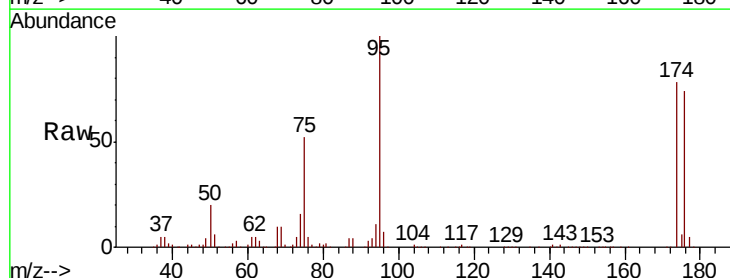
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0429WBL02

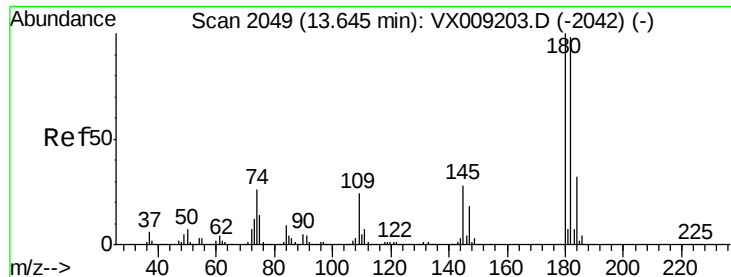
Tgt Ion: 75 Resp: 61990
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 66.124 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009209.D
 Acq: 29 Apr 2019 15:52

Tgt Ion: 75 Resp: 61990
 Ion Ratio Lower Upper
 75 100
 53 0.1 79.0 118.6#
 89 0.0 34.7 52.1#

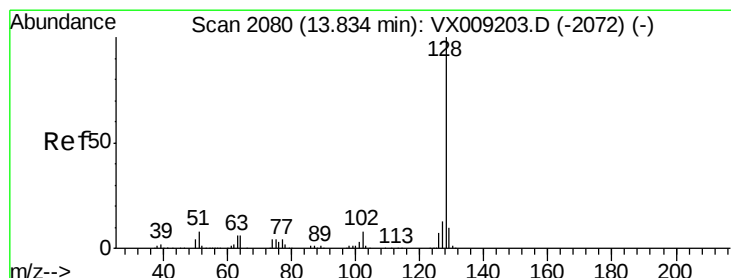
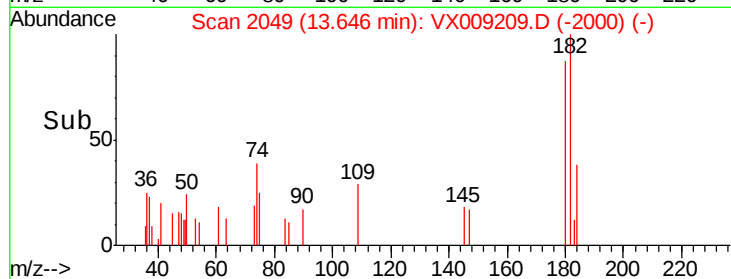
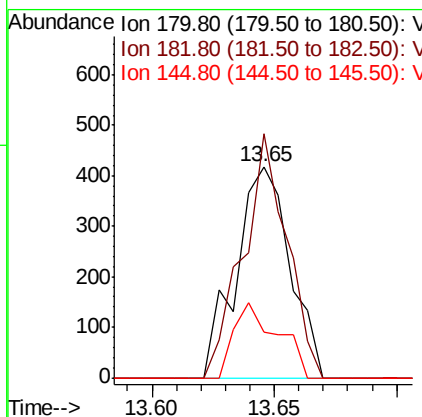
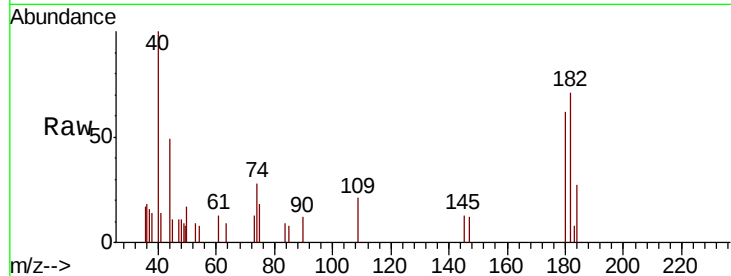




#93
 1,2,4-Trichlorobenzene
 Concen: 0.277 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX009209.D
 Acq: 29 Apr 2019 15:52

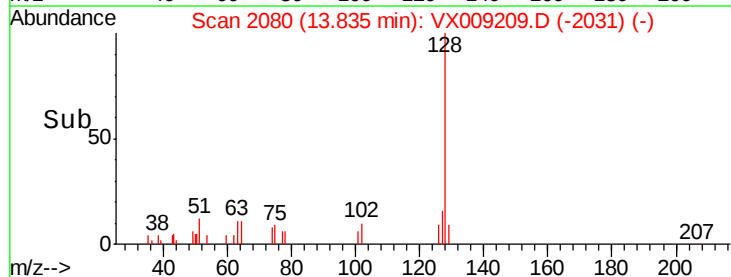
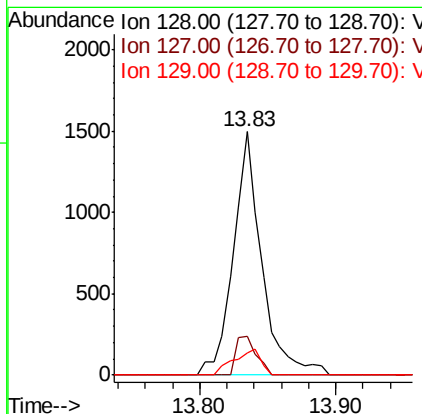
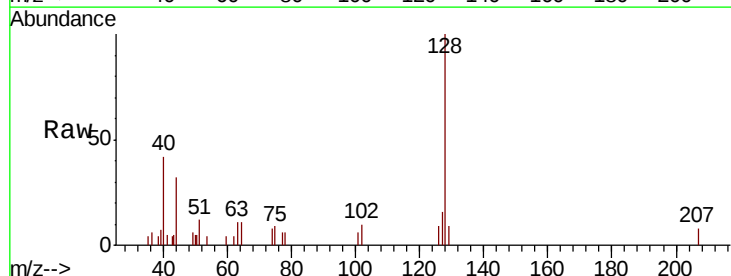
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0429WBL02

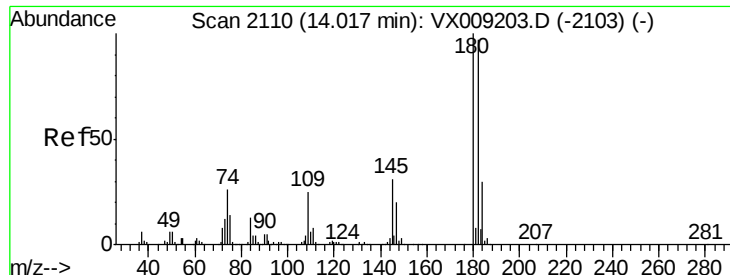
Tgt Ion:180 Resp: 641
 Ion Ratio Lower Upper
 180 100
 182 94.9 48.4 145.2
 145 28.7 14.6 43.8



#95
 Naphthalene
 Concen: 0.290 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX009209.D
 Acq: 29 Apr 2019 15:52

Tgt Ion:128 Resp: 2183
 Ion Ratio Lower Upper
 128 100
 127 11.1 10.4 15.6
 129 10.0 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 0.240 ug/l
 RT: 14.02 min Scan# 2111
 Delta R.T. 0.01 min
 Lab File: VX009209.D
 Acq: 29 Apr 2019 15:52

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0429WBL02

Tgt Ion	Ratio	Lower	Upper
180	100		
182	116.7	47.8	143.4
145	35.3	15.4	46.4

