

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062518\
 Data File : VX002877.D
 Acq On : 25 Jun 2018 23:28
 Operator : JC/MD
 Sample : J3693-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 W-35

Quant Time: Jun 27 05:28:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	241766	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	337432	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	314021	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	180993	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	163448	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
35) Dibromofluoromethane	5.51	113	130293	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	
50) Toluene-d8	8.72	98	476159	48.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.60%	
62) 4-Bromofluorobenzene	11.14	95	167936	44.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.26%	

Target Compounds

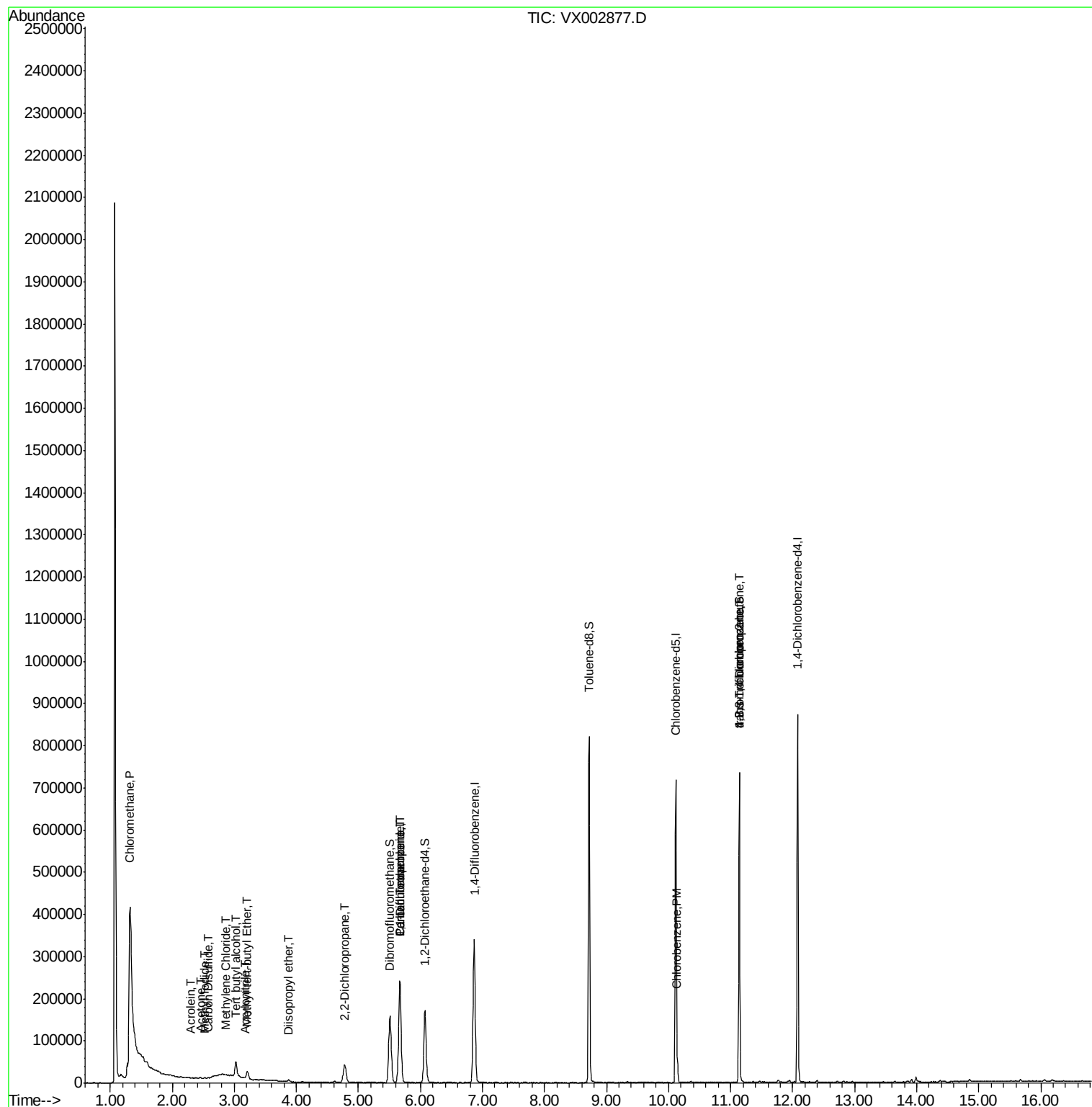
						Qvalue
2) Dichlorodifluoromethane	1.20	85	86	Below Cal	#	43
3) Chloromethane	1.32	50	23978	9.74	ug/l	51
5) Bromomethane	1.61	94	105	Below Cal	#	3
6) Chloroethane	1.89	64	1484	Below Cal	#	47
10) Methyl Iodide	2.51	142	2551	7.05	ug/l	98
11) Tert butyl alcohol	3.03	59	22239	33.41	ug/l	81
13) Acrolein	2.29	56	17	4.27	ug/l	14
15) Acrylonitrile	3.17	53	330	0.23	ug/l	31
16) Acetone	2.45	43	2860	2.07	ug/l	96
17) Carbon Disulfide	2.58	76	5476	0.86	ug/l	98
19) Methyl tert-butyl Ether	3.21	73	19432	2.27	ug/l	100
20) Methylene Chloride	2.86	84	568	0.21	ug/l	83
22) Diisopropyl ether	3.88	45	4400	0.49	ug/l	89
26) 2,2-Dichloropropane	4.78	77	3327	0.84	ug/l	53
36) 1,1-Dichloropropene	5.67	75	16770	4.53	ug/l	51
38) Carbon Tetrachloride	5.67	117	22491	5.54	ug/l	15
65) Chlorobenzene	10.14	112	19394	2.43	ug/l	98
76) 1,2,3-Trichloropropane	11.14	75	88279	26.93	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	88279	76.24	ug/l	7

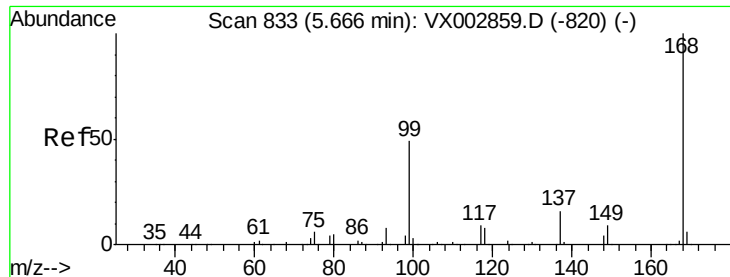
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX002877.D

Acq: 25 Jun 2018 23:28

Instrument :

MSVOA_X

ClientSampleId :

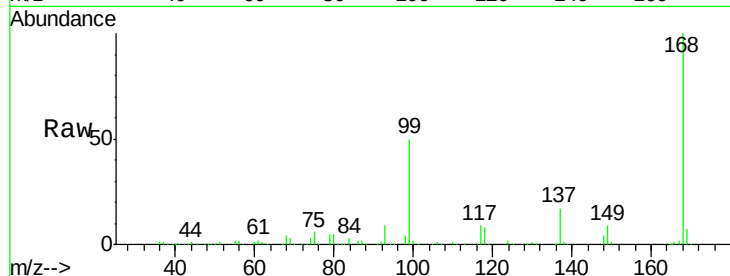
W-35

Tot Ion:168 Resp: 241766

Ion Ratio Lower Upper

168 100

99 49.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

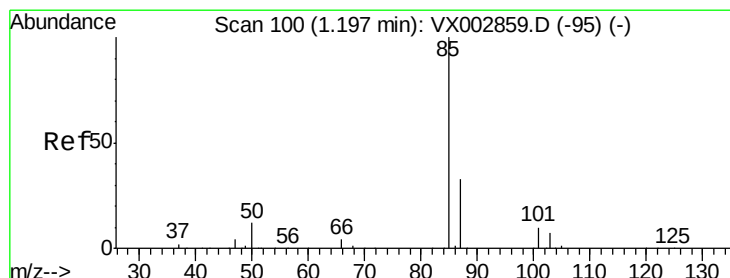
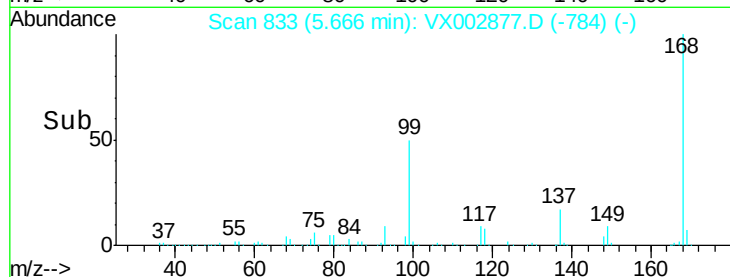
40000

20000

0

Time-->

5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002877.D

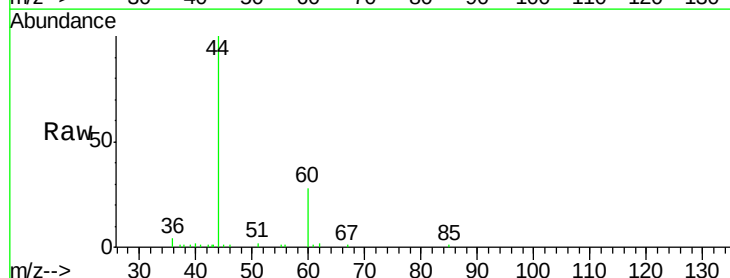
Acq: 25 Jun 2018 23:28

Tgt Ion: 85 Resp: 86

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

120

100

80

60

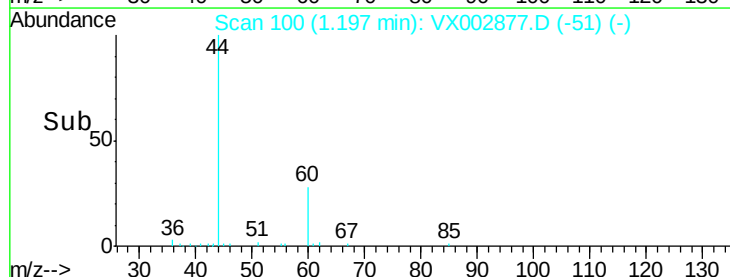
40

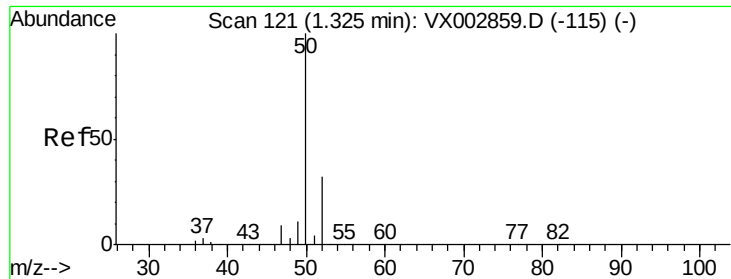
20

0

Time-->

1.18 1.20 1.22





#3

Chloromethane

Concen: 9.74 ua/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002877.D

Acq: 25 Jun 2018 23:28

Instrument :

MSVOA_X

ClientSampled :

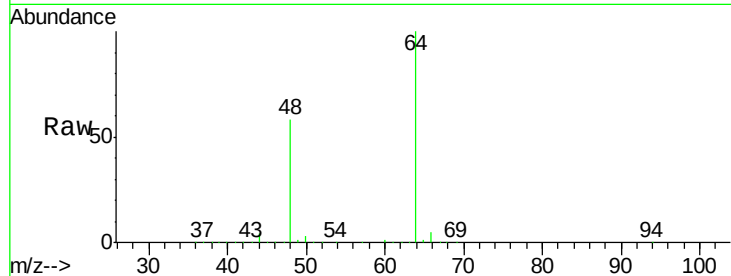
W-35

Tot Ion: 50 Resp: 23978

Ion Ratio Lower Upper

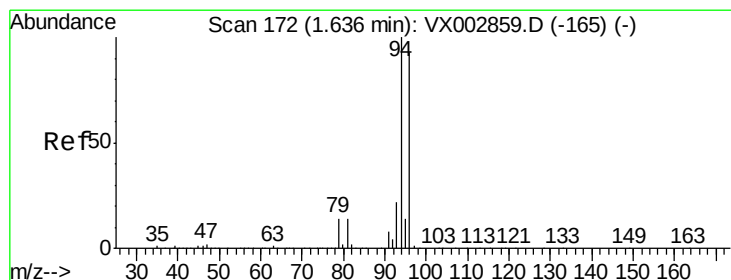
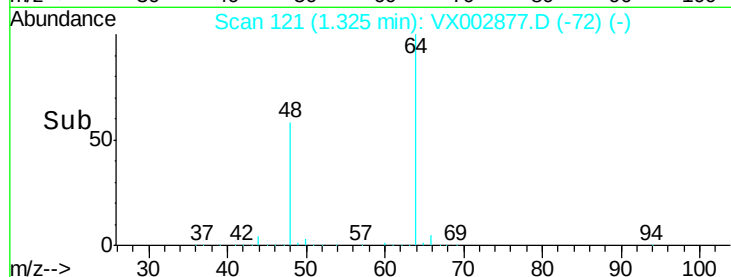
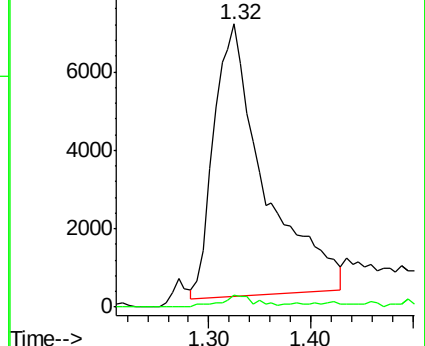
50 100

52 4.8 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 168

Delta R.T. -0.02 min

Lab File: VX002877.D

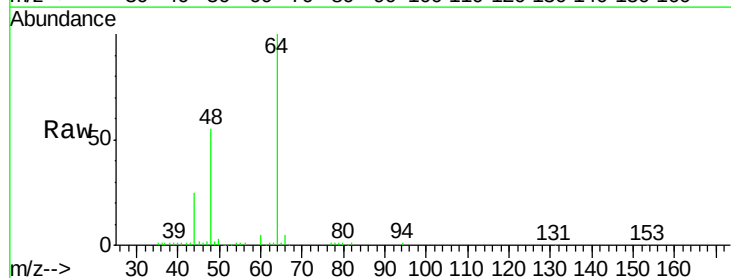
Acq: 25 Jun 2018 23:28

Tgt Ion: 94 Resp: 105

Ion Ratio Lower Upper

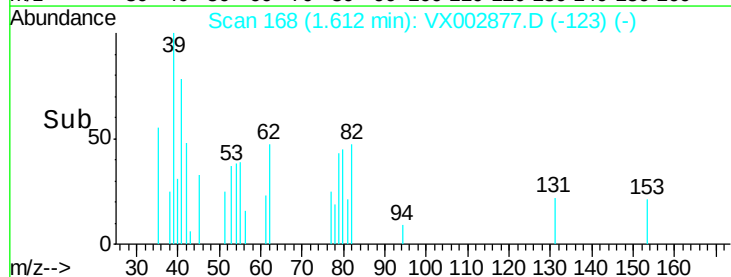
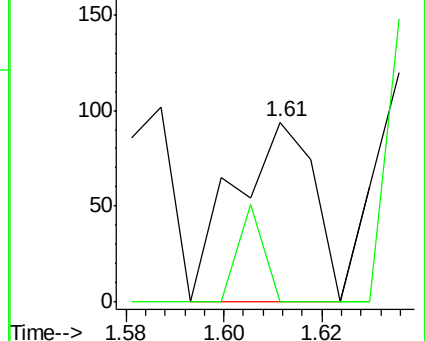
94 100

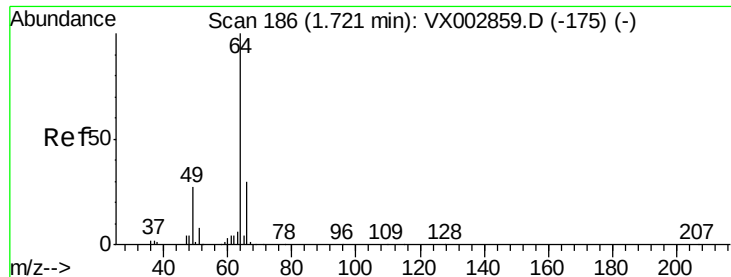
96 0.0 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.89 min Scan# 213

Delta R.T. 0.16 min

Lab File: VX002877.D

Acq: 25 Jun 2018 23:28

Instrument :

MSVOA_X

ClientSampleId :

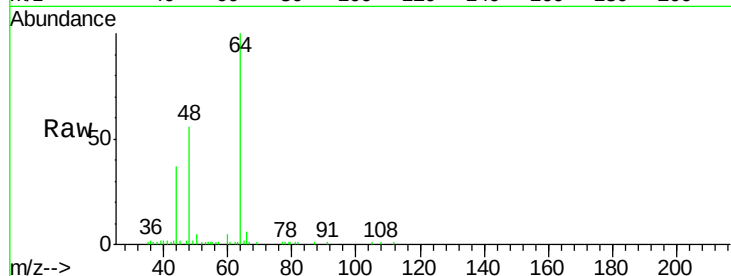
W-35

Tot Ion: 64 Resp: 1484

Ion Ratio Lower Upper

64 100

66 2.2 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX002859.D (-175) (-)

Ion 65.90 (65.60 to 66.60): VX002859.D (-175) (-)

1.89

8000

6000

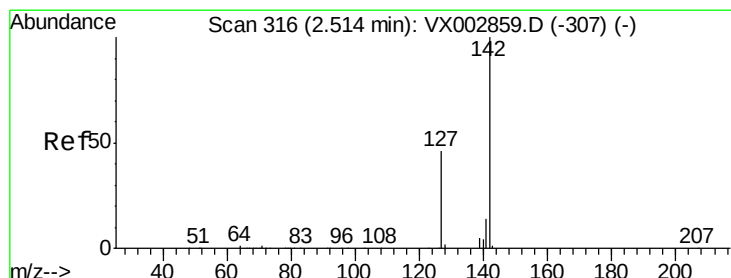
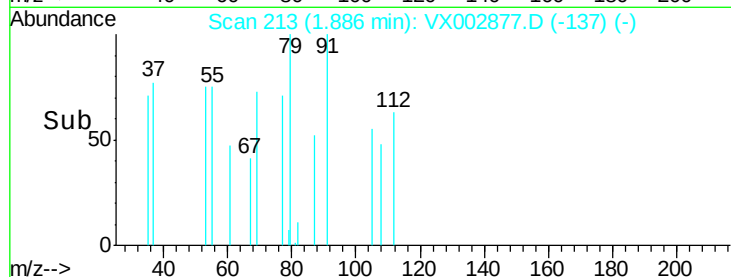
4000

2000

0

Time-->

1.88 1.90 1.92



#10

Methyl Iodide

Concen: 7.05 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002877.D

Acq: 25 Jun 2018 23:28

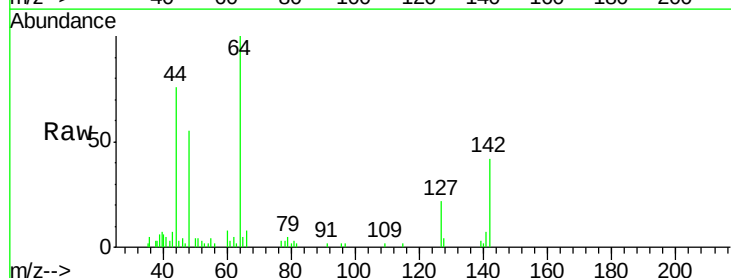
Tgt Ion: 142 Resp: 2551

Ion Ratio Lower Upper

142 100

127 46.3 36.6 55.0

141 17.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): VX002859.D (-307) (-)

Ion 126.80 (126.50 to 127.50): VX002859.D (-307) (-)

Ion 140.80 (140.50 to 141.50): VX002859.D (-307) (-)

2.51

1500

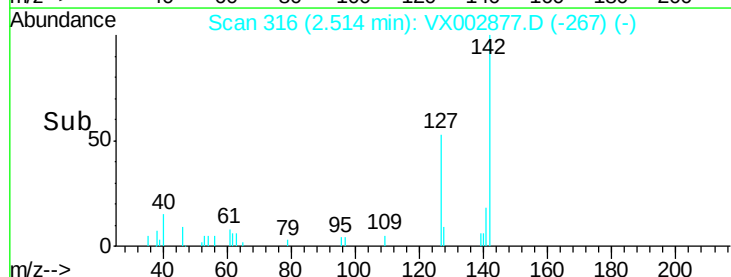
1000

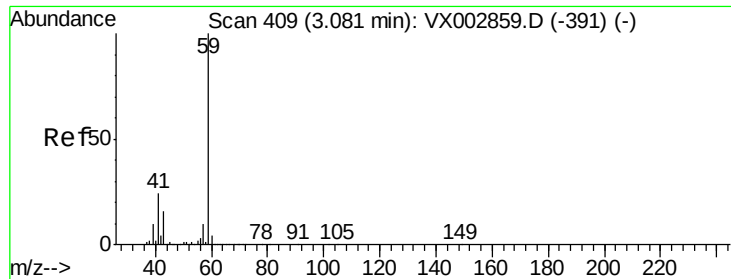
500

0

Time-->

2.45 2.50 2.55 2.60

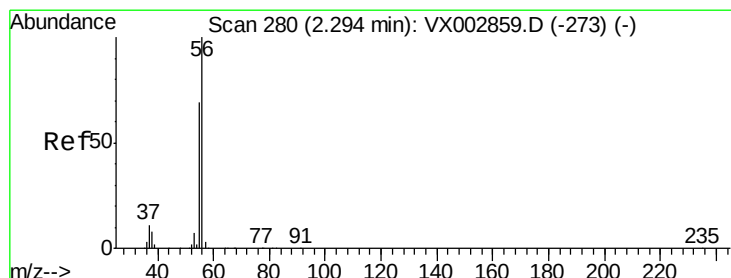
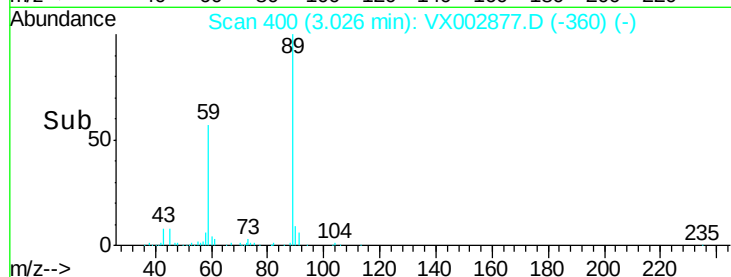
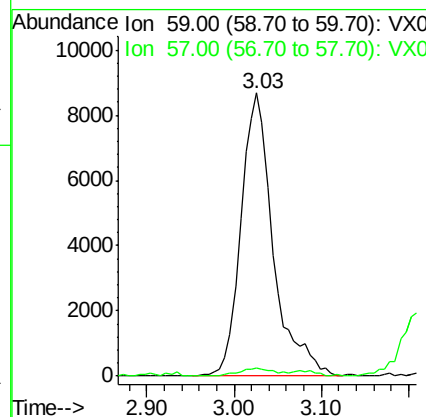
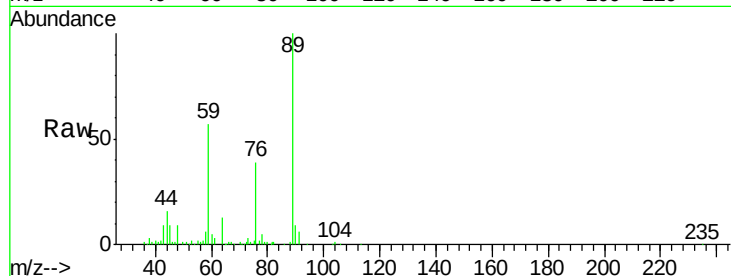




#11
Tert butyl alcohol
Concen: 33.41 ug/l
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002877.D
Acq: 25 Jun 2018 23:28

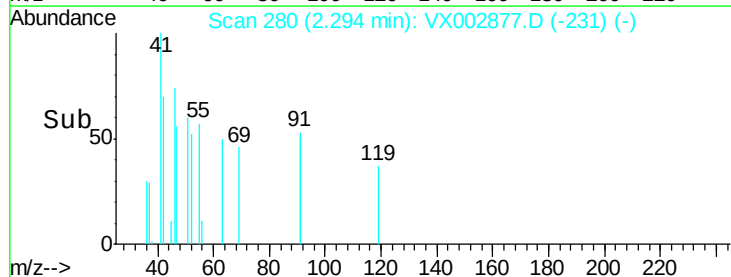
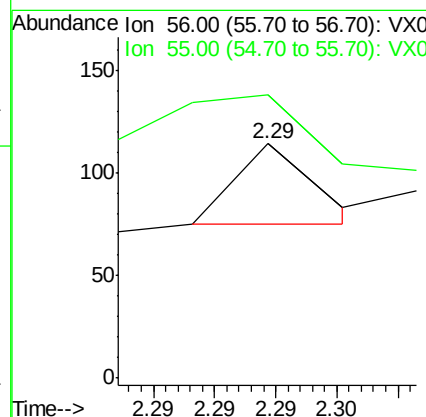
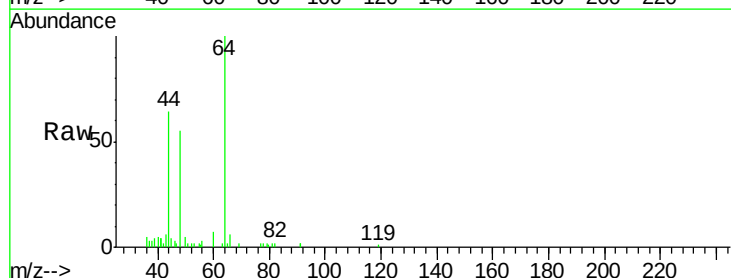
Instrument :
MSVOA_X
ClientSampleId :
W-35

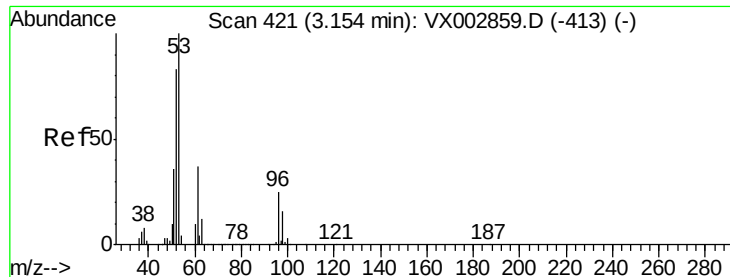
Tot Ion: 59 Resp: 22239
Ion Ratio Lower Upper
59 100
57 3.2 8.2 12.2#



#13
Acrolein
Concen: 4.27 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX002877.D
Acq: 25 Jun 2018 23:28

Tgt Ion: 56 Resp: 17
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#15

Acrylonitrile

Concen: 0.23 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX002877.D

Acq: 25 Jun 2018 23:28

Instrument :

MSVOA_X

ClientSampled :

W-35

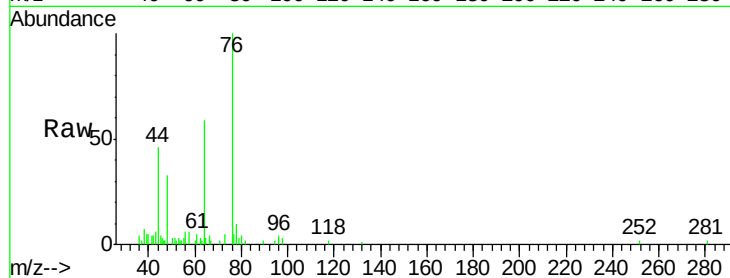
Tot Ion: 53 Resp: 330

Ion Ratio Lower Upper

53 100

52 17.9 66.7 100.1#

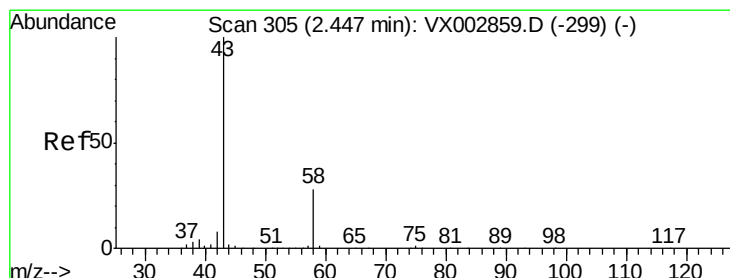
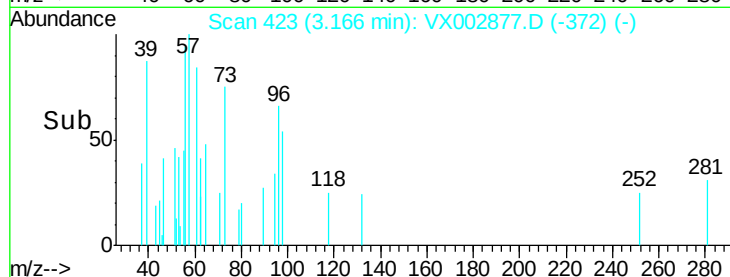
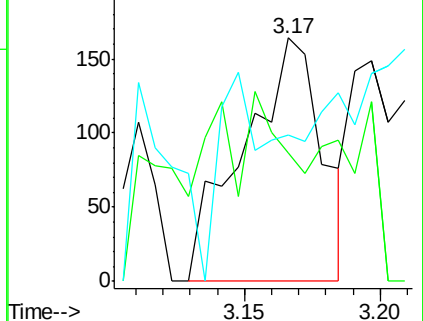
51 0.0 29.9 44.9#



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



#16

Acetone

Concen: 2.07 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX002877.D

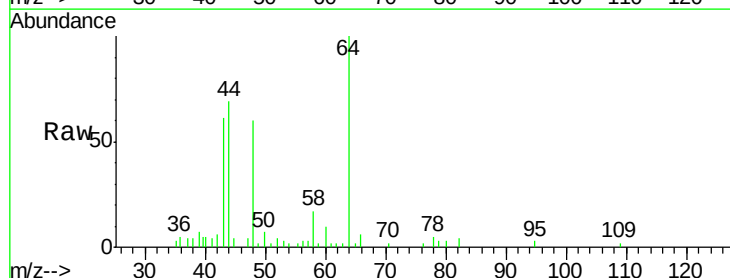
Acq: 25 Jun 2018 23:28

Tgt Ion: 43 Resp: 2860

Ion Ratio Lower Upper

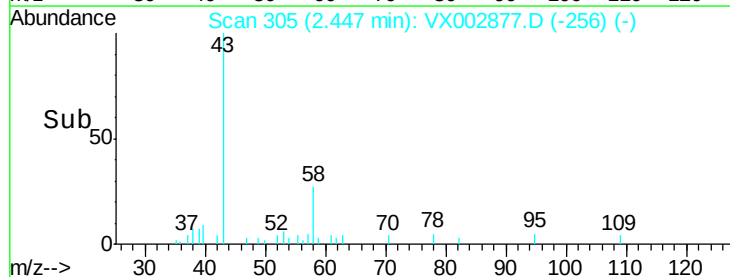
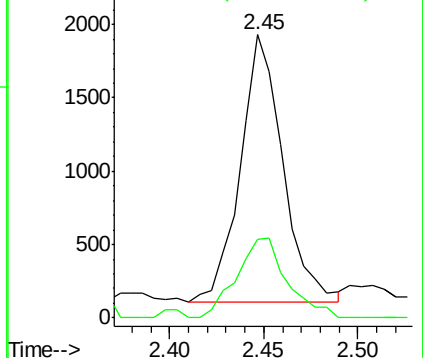
43 100

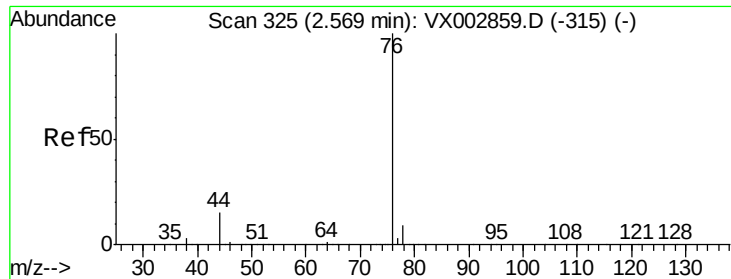
58 29.5 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 0.86 ug/l

RT: 2.58 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX002877.D

Acq: 25 Jun 2018 23:28

Instrument :

MSVOA_X

ClientSampled :

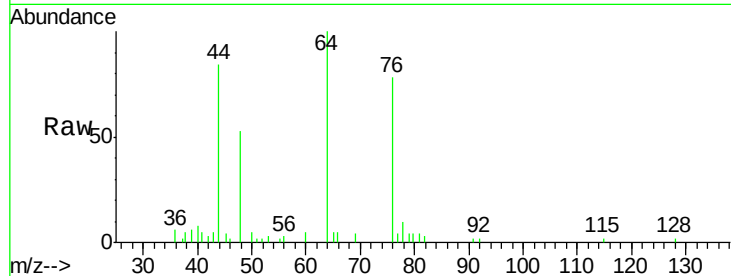
W-35

Tot Ion: 76 Resp: 5476

Ion Ratio Lower Upper

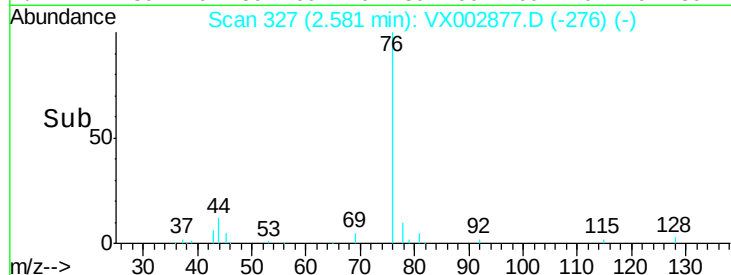
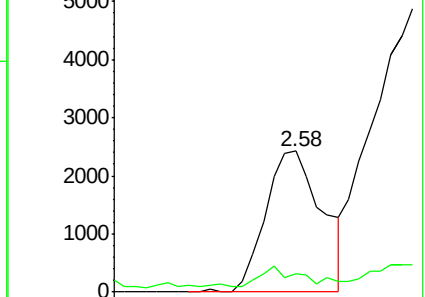
76 100

78 7.8 6.9 10.3

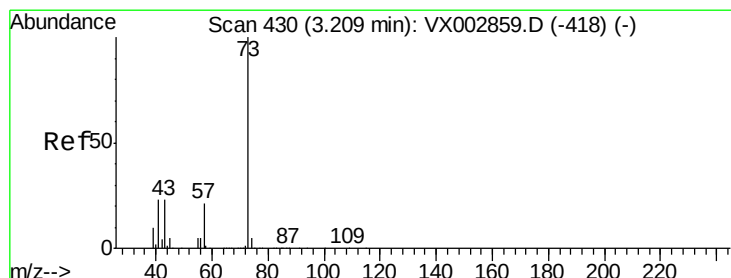


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->



#19

Methyl tert-butyl Ether

Concen: 2.27 ug/l

RT: 3.21 min Scan# 431

Delta R.T. 0.01 min

Lab File: VX002877.D

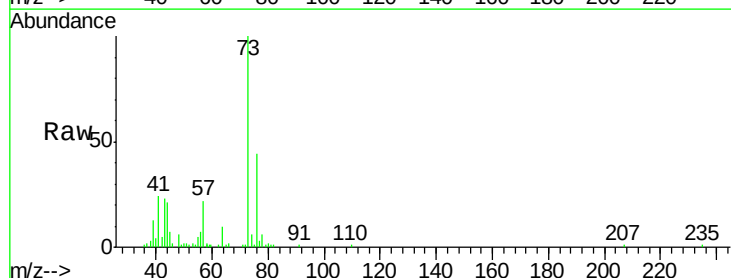
Acq: 25 Jun 2018 23:28

Tgt Ion: 73 Resp: 19432

Ion Ratio Lower Upper

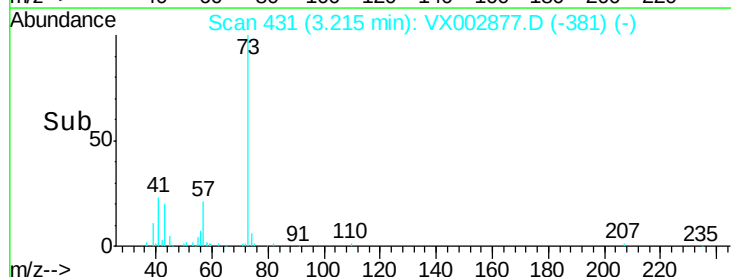
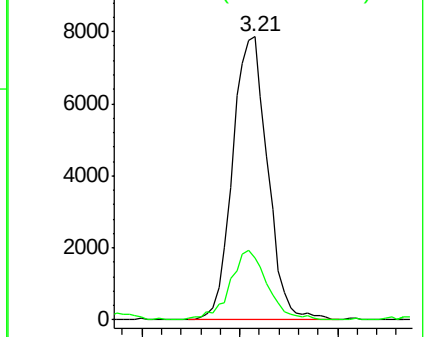
73 100

57 21.9 17.7 26.5

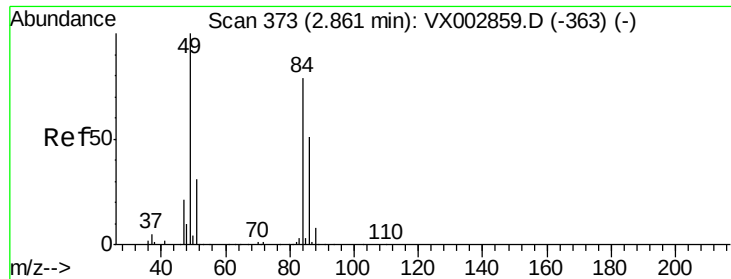


Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->



#20

Methylene Chloride

Concen: 0.21 ug/l

RT: 2.86 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX002877.D

Acq: 25 Jun 2018 23:28

Instrument :

MSVOA_X

ClientSampled :

W-35

Tot Ion: 84 Resp: 568

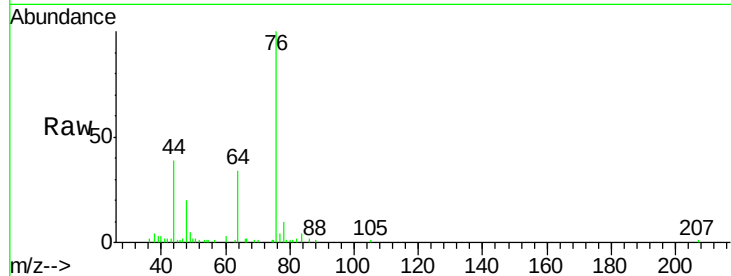
Ion Ratio Lower Upper

84 100

49 146.9 107.8 161.6

51 24.0 32.8 49.2#

86 45.5 52.5 78.7#

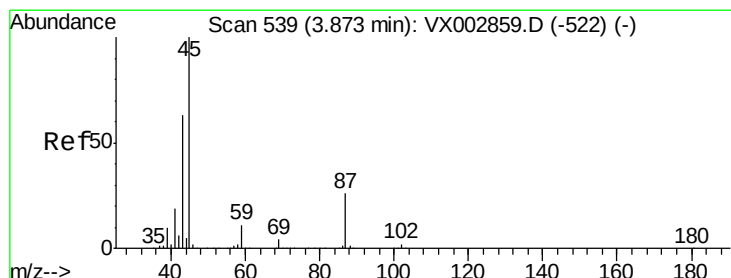
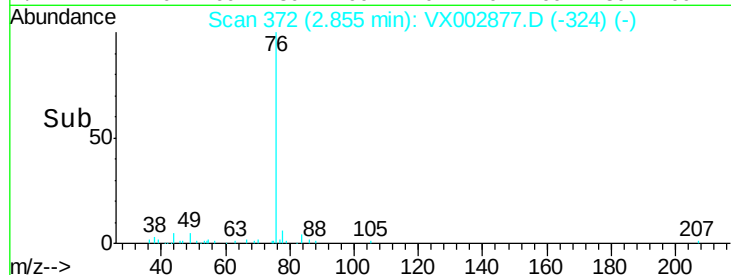
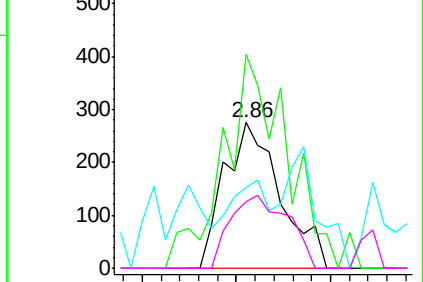


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#22

Diisopropyl ether

Concen: 0.49 ug/l

RT: 3.88 min Scan# 540

Delta R.T. 0.01 min

Lab File: VX002877.D

Acq: 25 Jun 2018 23:28

Tgt Ion: 45 Resp: 4400

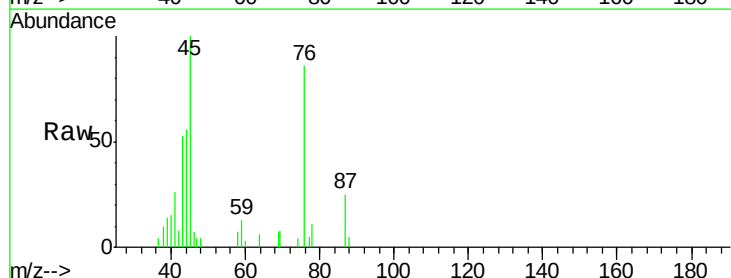
Ion Ratio Lower Upper

45 100

43 46.7 46.8 70.2#

87 24.5 20.2 30.4

59 13.3 8.7 13.1#

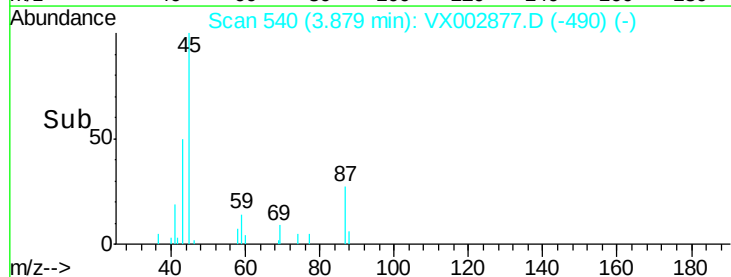
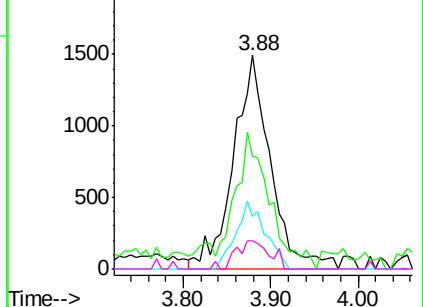


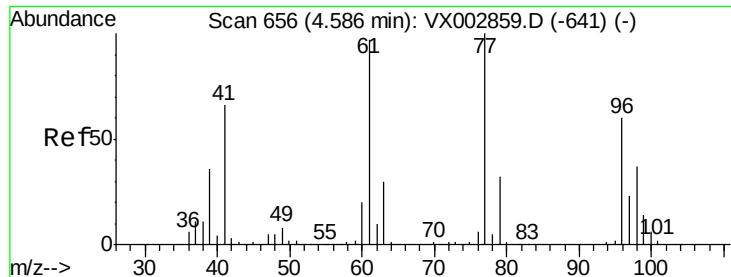
Abundance Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0

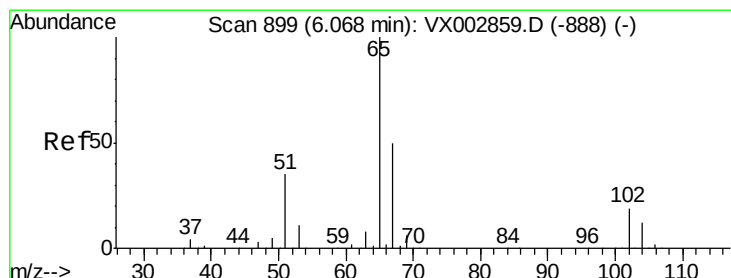
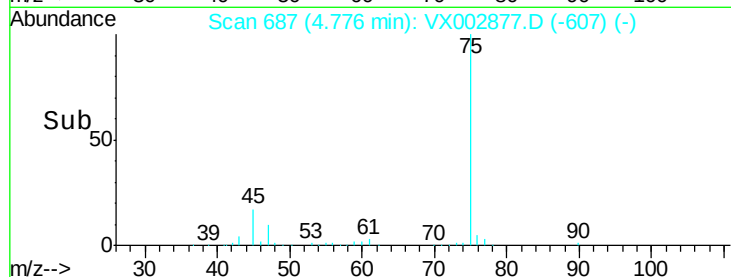
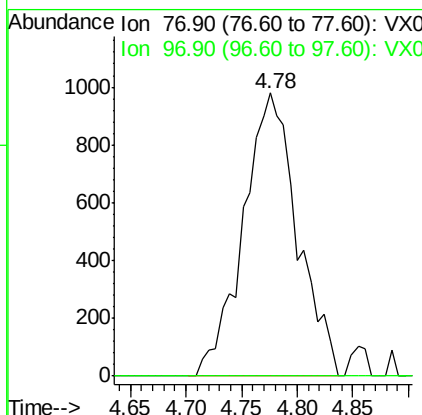
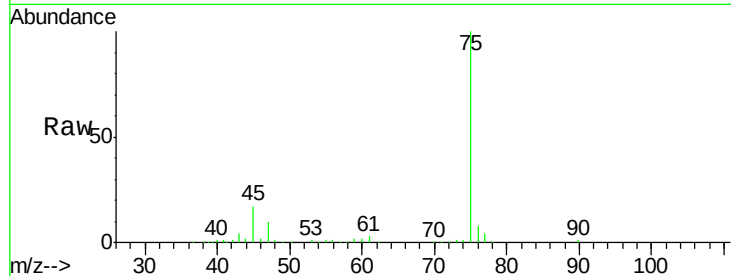




#26
 2,2-Dichloropropane
 Concen: 0.84 ug/l
 RT: 4.78 min Scan# 687
 Delta R.T. 0.19 min
 Lab File: VX002877.D
 Acq: 25 Jun 2018 23:28

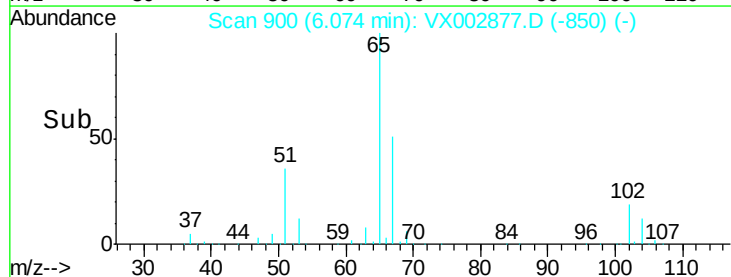
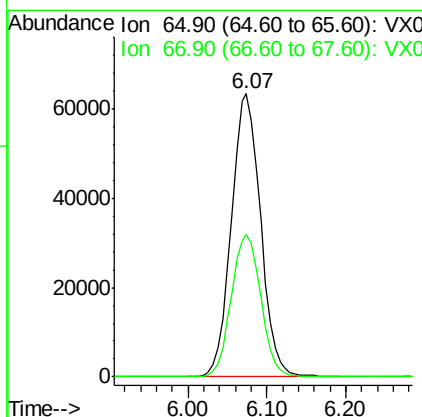
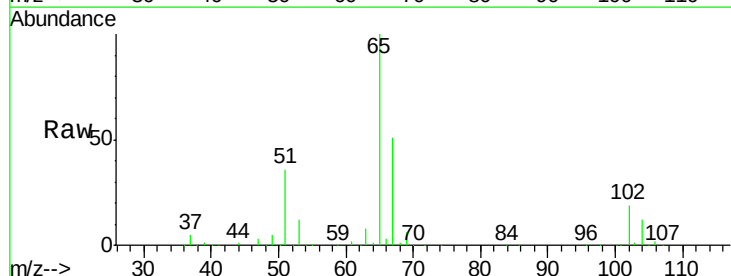
Instrument :
 MSVOA_X
 ClientSampled :
 W-35

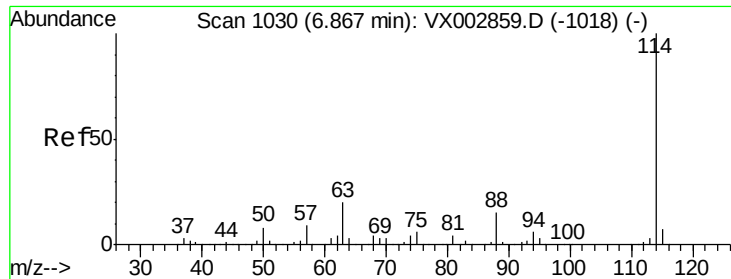
Tot Ion: 77 Resp: 3327
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.2 33.5#



#33
 1,2-Dichloroethane-d4
 Concen: 48.91 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX002877.D
 Acq: 25 Jun 2018 23:28

Tgt Ion: 65 Resp: 163448
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 102.6

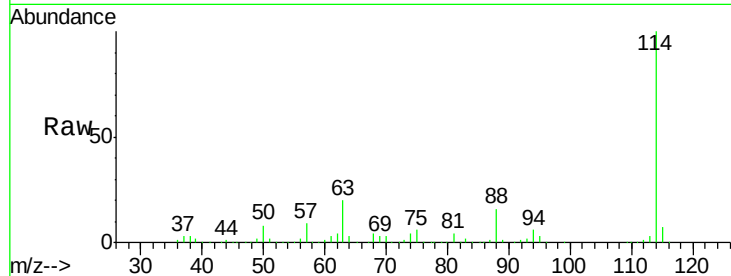




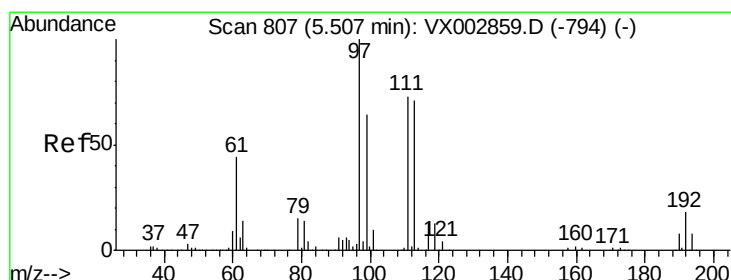
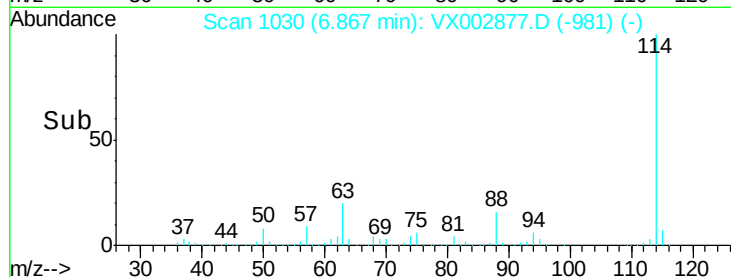
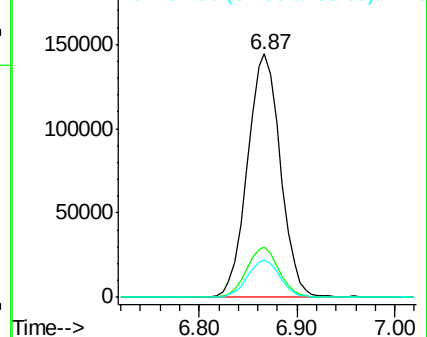
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 6.87 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VX002877.D
Acq: 25 Jun 2018 23:28

Instrument :
MSVOA_X
ClientSampleId :
W-35

Tot Ion:114 Resp: 337432
Ion Ratio Lower Upper
114 100
63 20.5 0.0 41.4
88 15.5 0.0 30.0

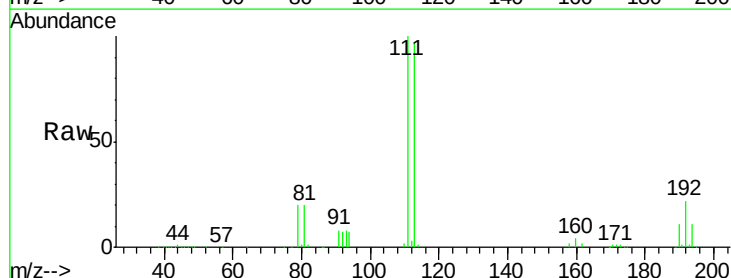


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

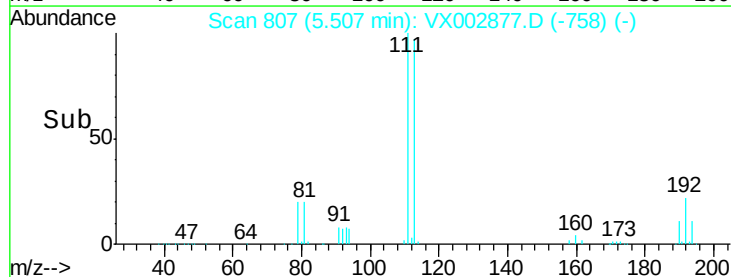
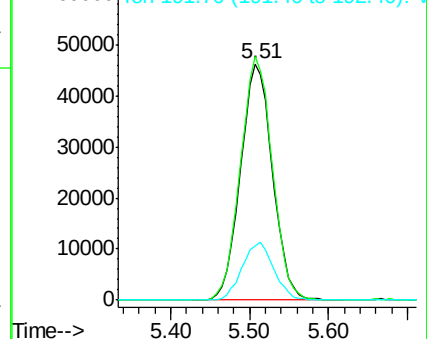


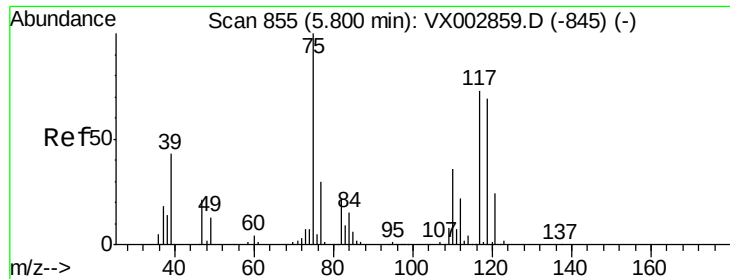
#35
Dibromofluoromethane
Concen: 48.76 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.00 min
Lab File: VX002877.D
Acq: 25 Jun 2018 23:28

Tgt Ion:113 Resp: 130293
Ion Ratio Lower Upper
113 100
111 102.9 81.4 122.0
192 24.3 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

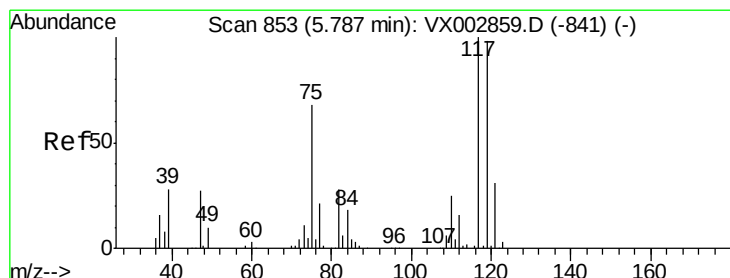
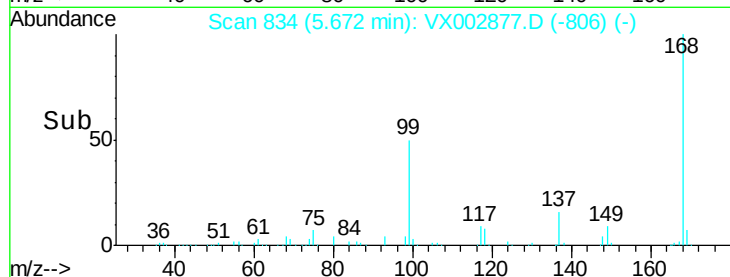
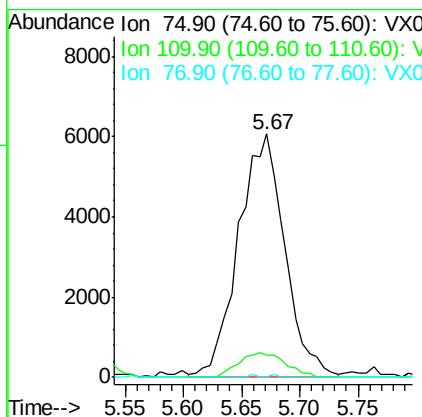
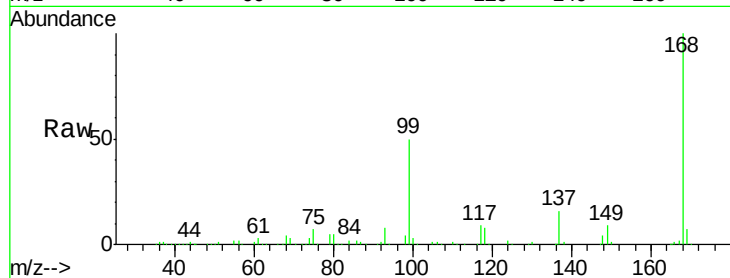




#36
 1,1-Dichloropropene
 Concen: 4.53 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002877.D
 Acq: 25 Jun 2018 23:28

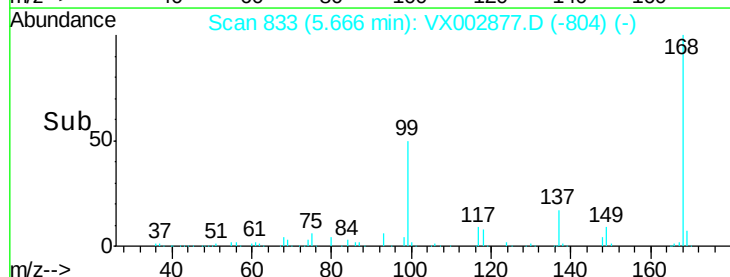
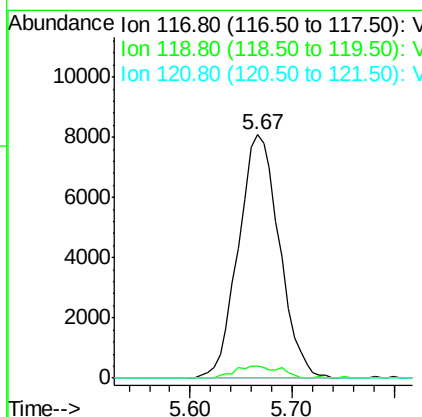
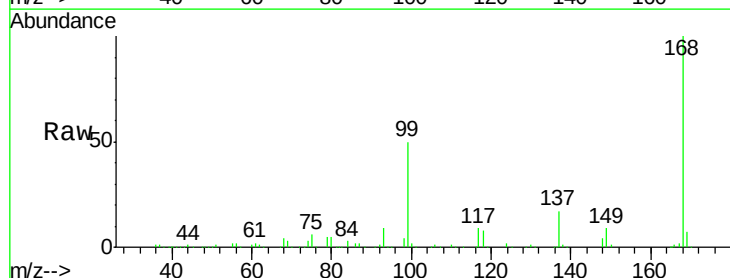
Instrument :
 MSVOA_X
 ClientSampleId :
 W-35

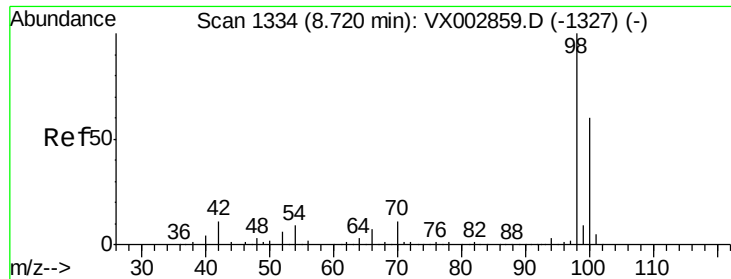
Tot Ion	75	Resp	16770
Ion Ratio	Lower	Upper	
75	100		
110	10.3	18.1	54.4#
77	0.2	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.54 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002877.D
 Acq: 25 Jun 2018 23:28

Tgt Ion	117	Resp	22491
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	4.7	77.4	116.0#
121	0.0	24.4	36.6#

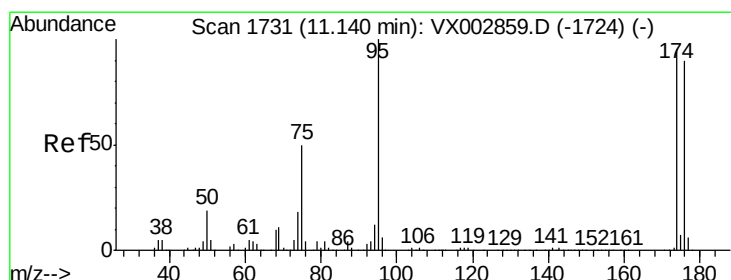
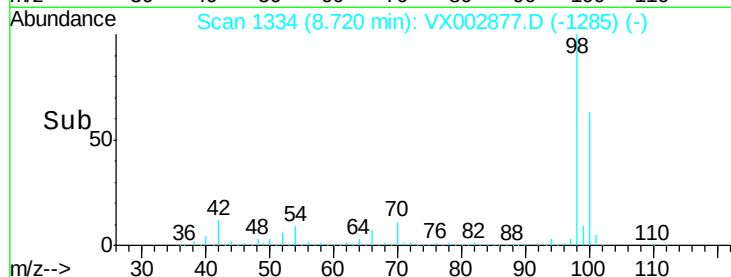
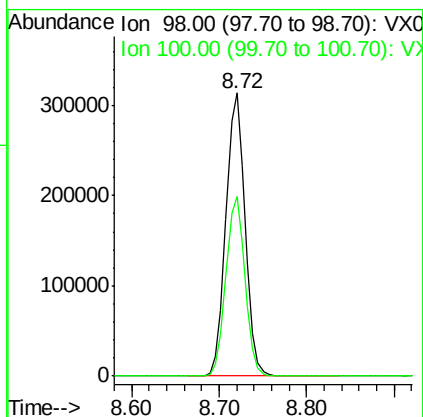
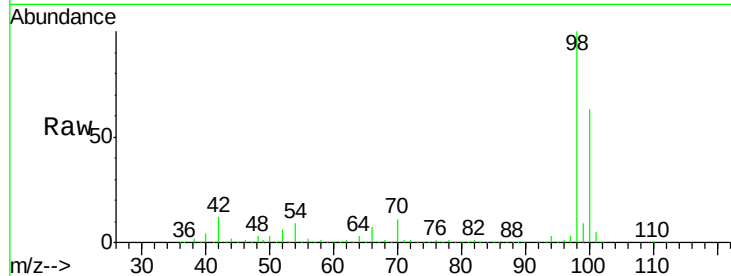




#50
Toluene-d8
Concen: 48.80 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002877.D
Acq: 25 Jun 2018 23:28

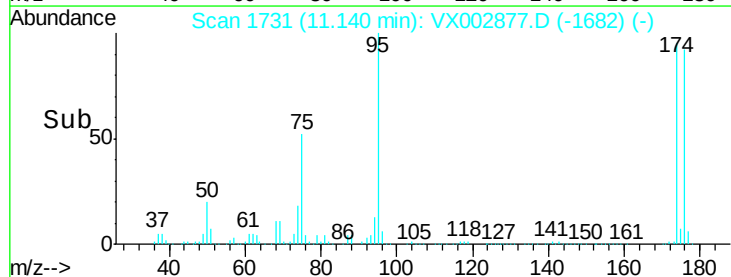
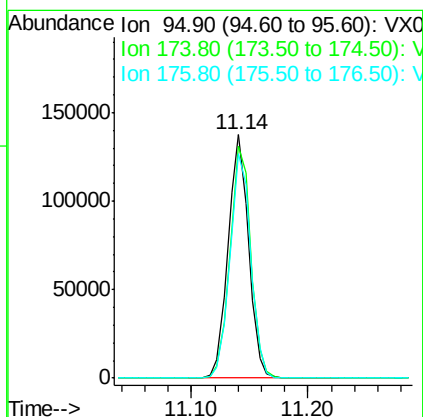
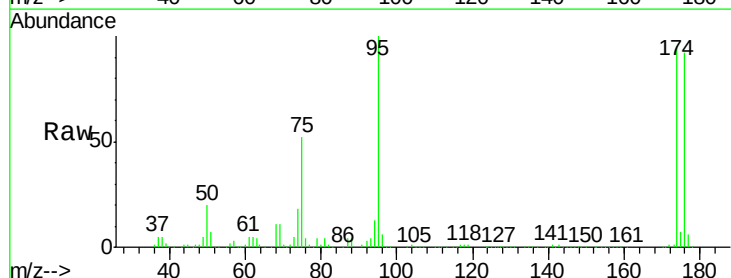
Instrument :
MSVOA_X
ClientSampleId :
W-35

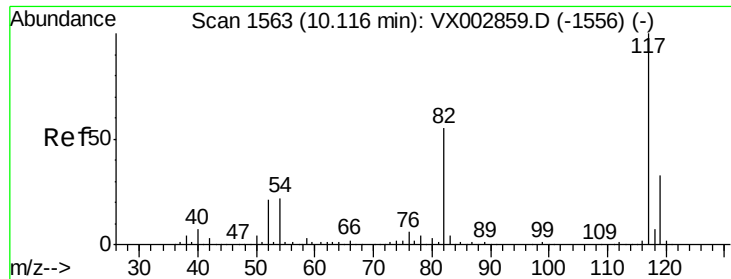
Tot Ion: 98 Resp: 476159
Ion Ratio Lower Upper
98 100
100 63.2 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 44.63 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002877.D
Acq: 25 Jun 2018 23:28

Tgt Ion: 95 Resp: 167936
Ion Ratio Lower Upper
95 100
174 97.5 0.0 187.4
176 94.1 0.0 181.0

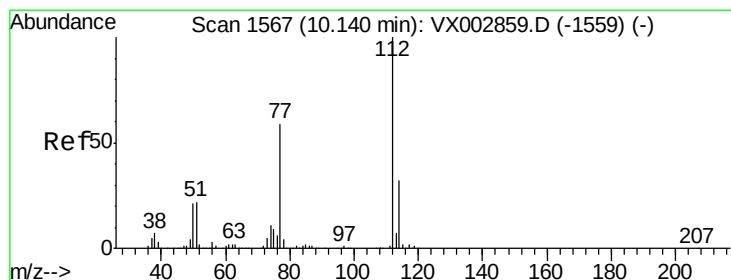
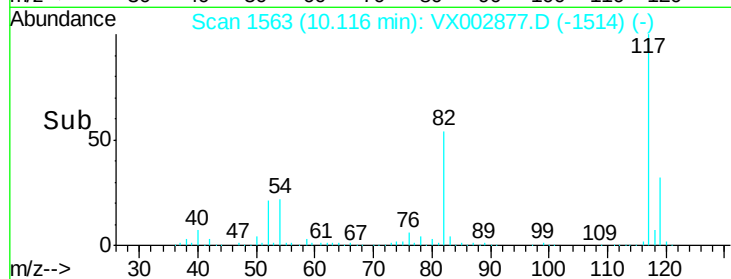
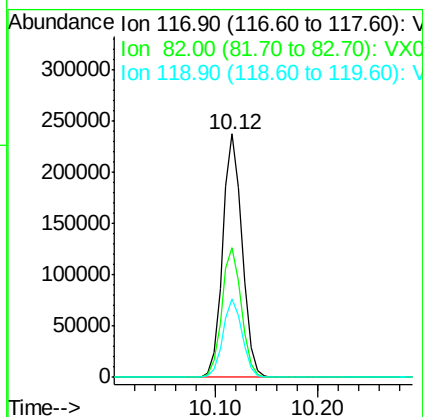
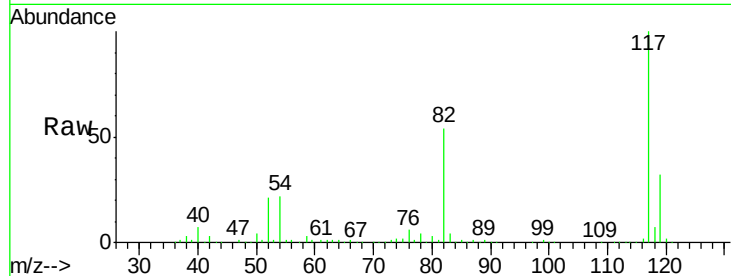




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002877.D
Acq: 25 Jun 2018 23:28

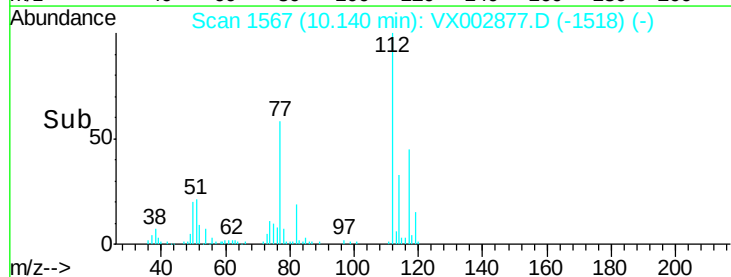
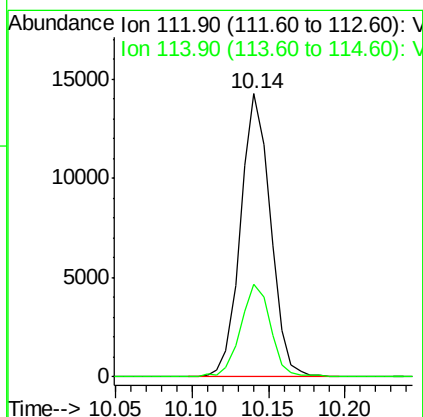
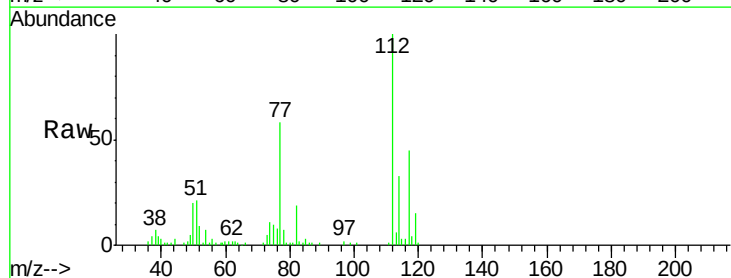
Instrument :
MSVOA_X
ClientSampled :
W-35

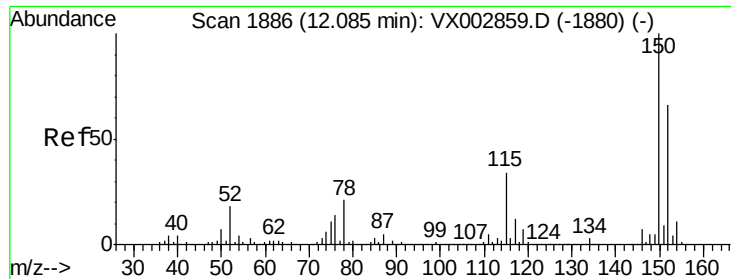
Tot Ion:117 Resp: 314021
Ion Ratio Lower Upper
117 100
82 53.5 45.0 67.4
119 32.5 25.8 38.6



#65
Chlorobenzene
Concen: 2.43 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX002877.D
Acq: 25 Jun 2018 23:28

Tgt Ion:112 Resp: 19394
Ion Ratio Lower Upper
112 100
114 32.9 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002877.D

Acq: 25 Jun 2018 23:28

Instrument :

MSVOA_X

ClientSampled :

W-35

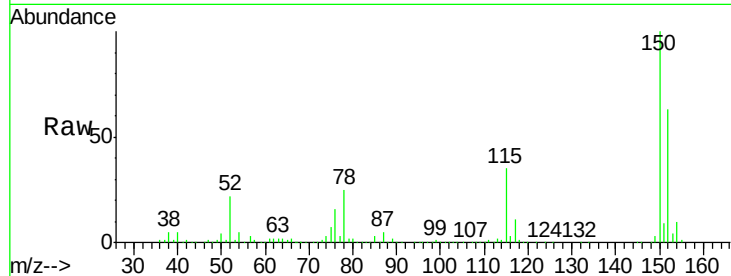
Tot Ion:152 Resp: 180993

Ion Ratio Lower Upper

152 100

115 54.1 40.1 120.2

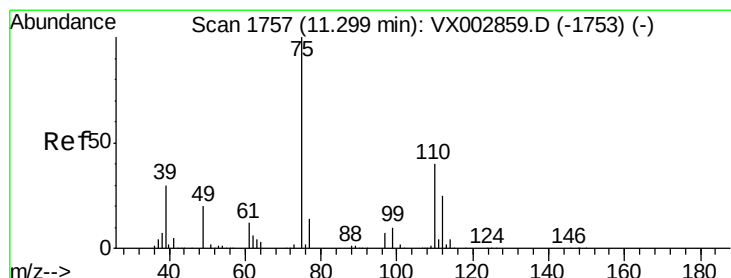
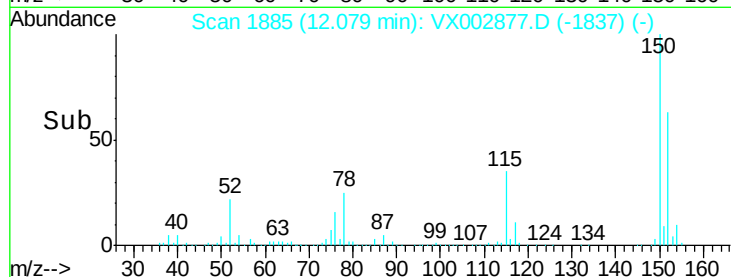
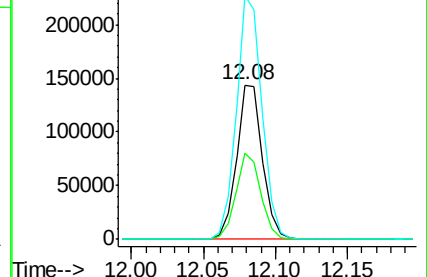
150 155.9 0.0 347.2



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: 26.93 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002877.D

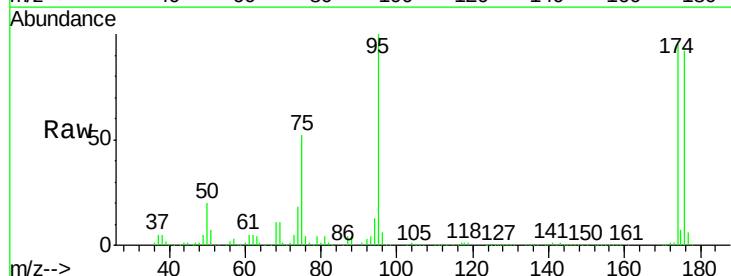
Acq: 25 Jun 2018 23:28

Tgt Ion: 75 Resp: 88279

Ion Ratio Lower Upper

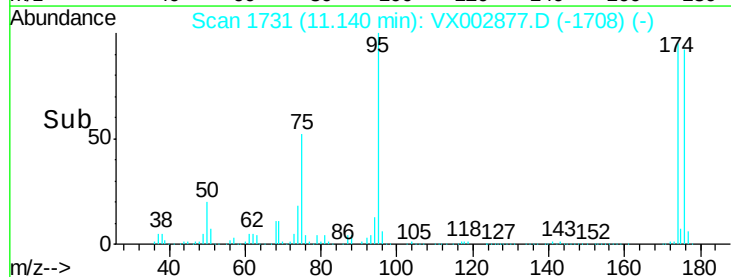
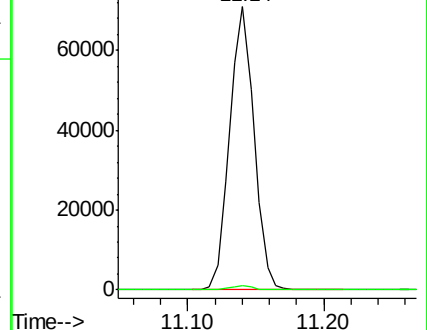
75 100

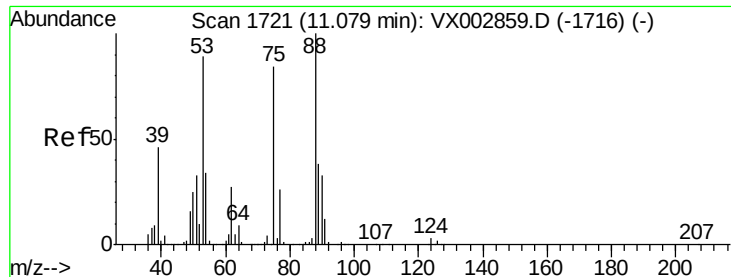
77 1.3 22.8 68.3#



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: 76.24 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002877.D

Acq: 25 Jun 2018 23:28

Instrument :

MSVOA_X

ClientSampleId :

W-35

Tot Ion: 75 Resp: 88279

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

