

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW012119\
 Data File : VW008370.D
 Acq On : 21 Jan 2019 13:00
 Operator : SY/VA
 Sample : K1205-01
 Misc : 5.55G/5ML/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 C-1

Quant Time: Jan 22 03:40:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W011719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jan 18 00:57:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	115298	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	202069	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	184589	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	84531	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	68634	57.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.46%	
35) Dibromofluoromethane	7.88	113	65491	50.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.54%	
50) Toluene-d8	10.32	98	253804	50.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.18%	
62) 4-Bromofluorobenzene	12.62	95	82129	45.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.38%	

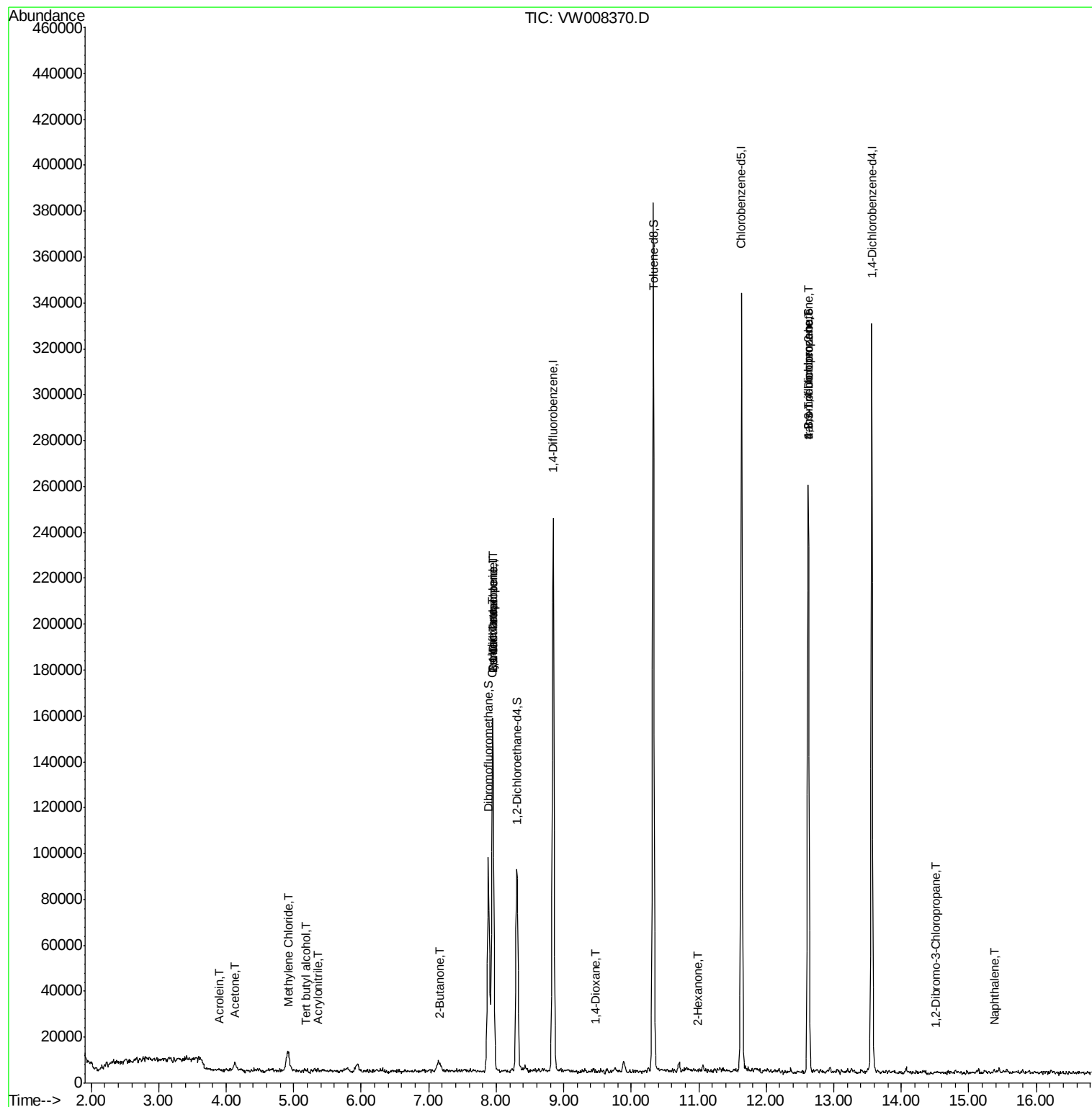
Target Compounds						Qvalue
11) Tert butyl alcohol	5.19	59	487	6.031	ug/l #	55
13) Acrolein	3.89	56	334	11.640	ug/l #	23
15) Acrylonitrile	5.37	53	525	1.973	ug/l #	45
16) Acetone	4.13	43	6299	22.615	ug/l	98
20) Methylene Chloride	4.92	84	7337	2.291	ug/l #	91
25) 2-Butanone	7.17	43	2491	6.982	ug/l	90
31) Cyclohexane	7.94	56	2996	1.337	ug/l #	22
36) 1,1-Dichloropropene	7.95	75	9835	4.838	ug/l #	51
38) Carbon Tetrachloride	7.95	117	11544	5.750	ug/l #	19
49) 1,4-Dioxane	9.47	88	45	3.749	ug/l #	1
59) 2-Hexanone	10.98	43	577	1.027	ug/l	62
76) 1,2,3-Trichloropropane	12.62	75	41795	54.294	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	41795	129.569	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.51	75	215	1.255	ug/l #	1
95) Naphthalene	15.38	128	996	2.622	ug/l #	81

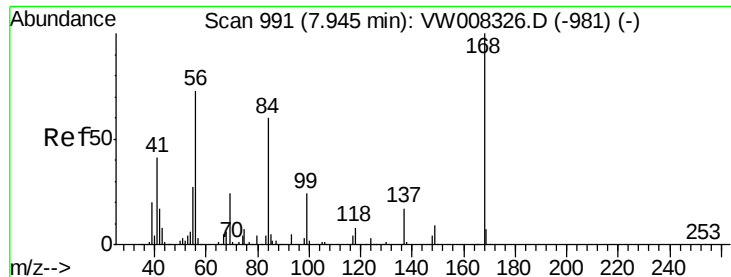
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW012119\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW008370.D

Acq: 21 Jan 2019 13:00

Instrument :

MSVOA_W

ClientSampled :

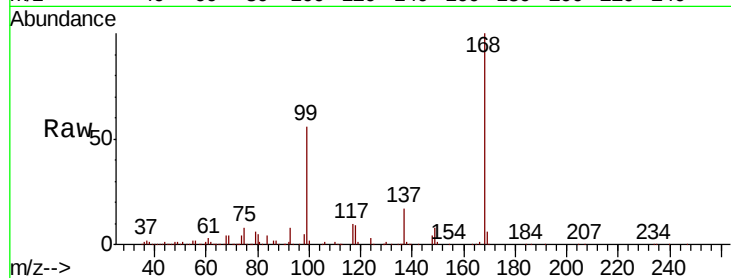
C-1

Tgt Ion:168 Resp: 115298

Ion Ratio Lower Upper

168 100

99 55.7 44.6 66.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

60000

50000

40000

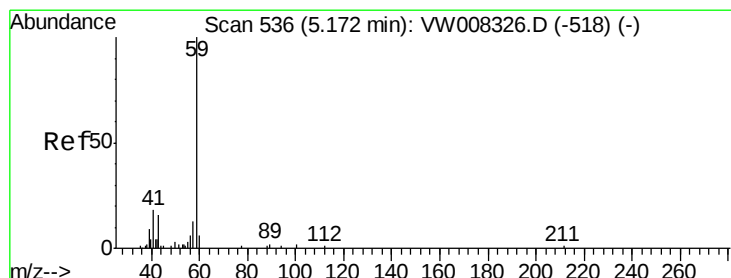
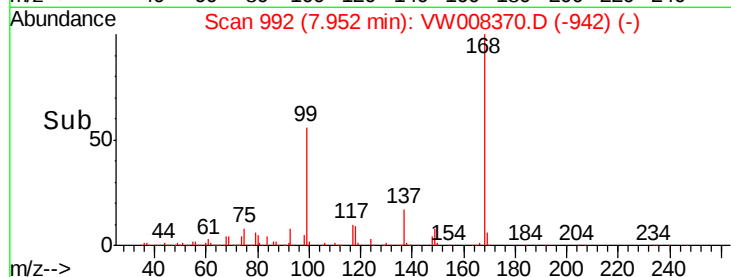
30000

20000

10000

0

Time--> 7.80 7.90 8.00 8.10



#11

Tert butyl alcohol

Concen: 6.031 ug/l

RT: 5.19 min Scan# 539

Delta R.T. 0.02 min

Lab File: VW008370.D

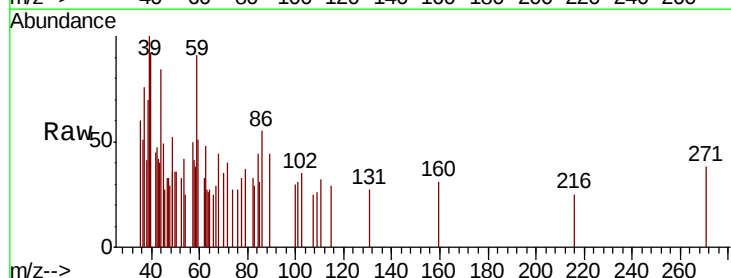
Acq: 21 Jan 2019 13:00

Tgt Ion: 59 Resp: 487

Ion Ratio Lower Upper

59 100

57 29.2 9.4 14.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.19

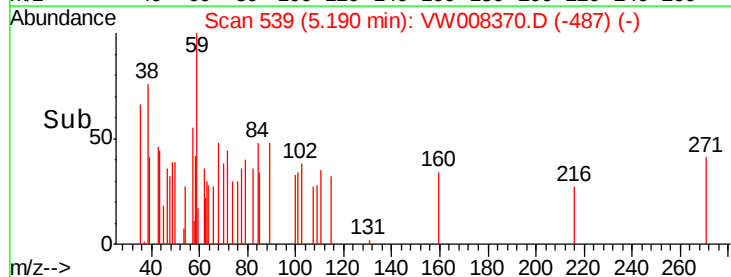
300

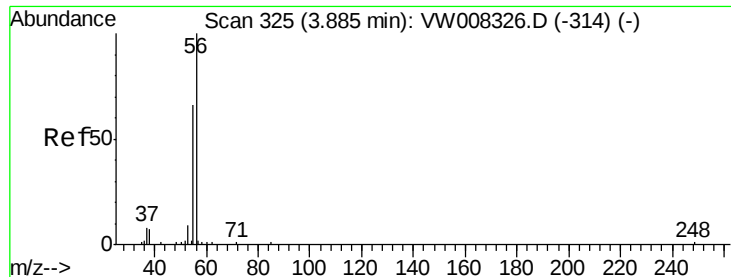
200

100

0

Time--> 5.15 5.20





#13

Acrolein

Concen: 11.640 ug/l

RT: 3.89 min Scan# 325

Delta R.T. 0.00 min

Lab File: VW008370.D

Acq: 21 Jan 2019 13:00

Instrument :

MSVOA_W

ClientSampled :

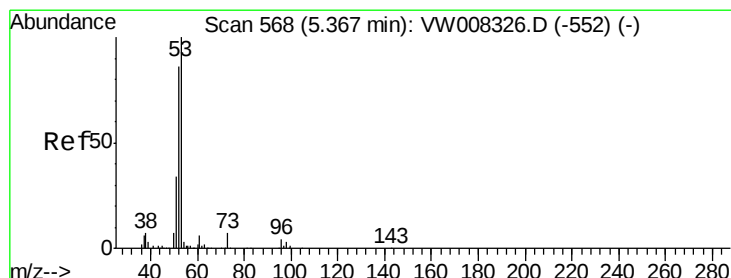
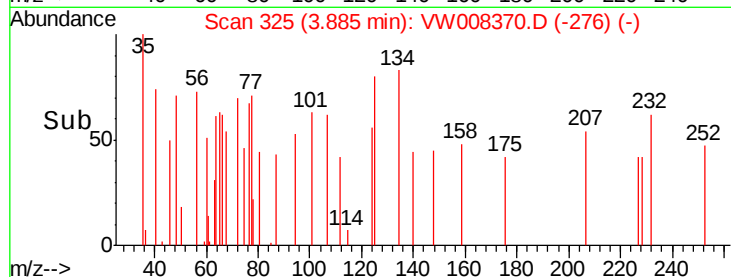
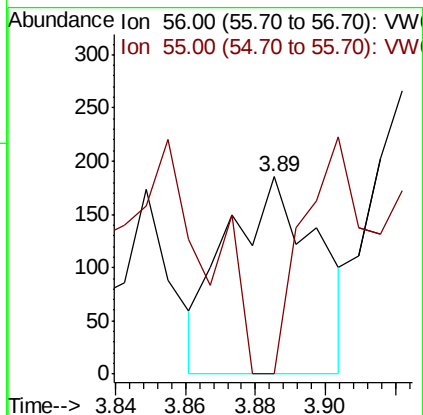
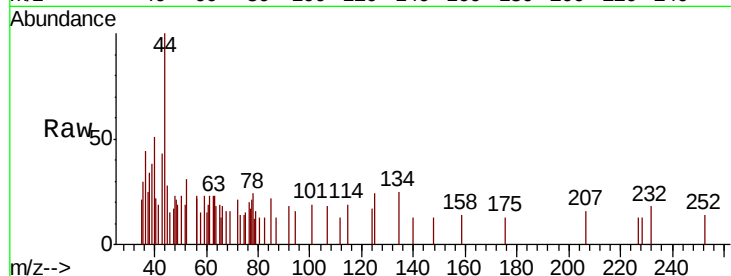
C-1

Tgt Ion: 56 Resp: 334

Ion Ratio Lower Upper

56 100

55 127.2 52.9 79.3#



#15

Acrylonitrile

Concen: 1.973 ug/l

RT: 5.37 min Scan# 568

Delta R.T. 0.00 min

Lab File: VW008370.D

Acq: 21 Jan 2019 13:00

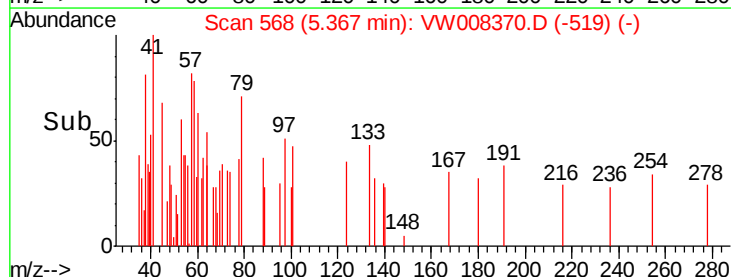
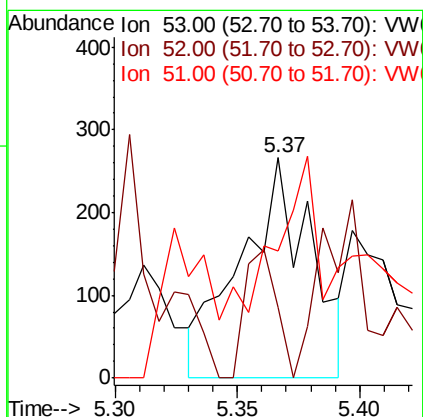
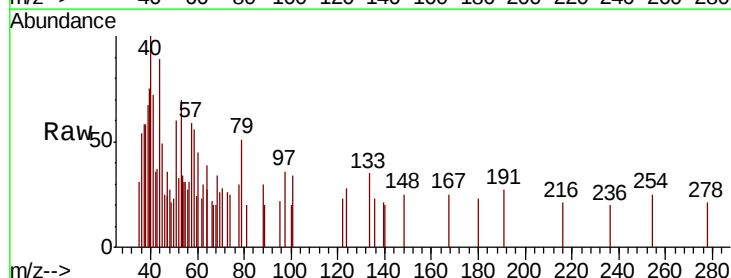
Tgt Ion: 53 Resp: 525

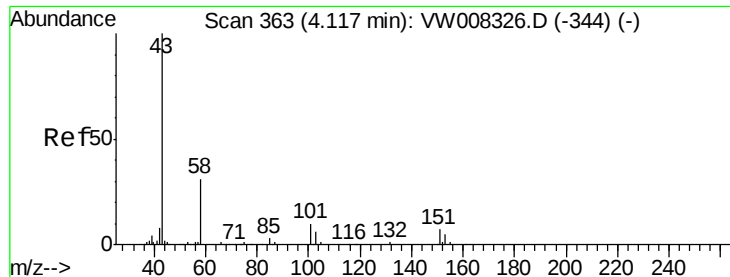
Ion Ratio Lower Upper

53 100

52 26.3 66.4 99.6#

51 58.5 29.6 44.4#





#16

Acetone

Concen: 22.615 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW008370.D

Acq: 21 Jan 2019 13:00

Instrument :

MSVOA_W

ClientSampled :

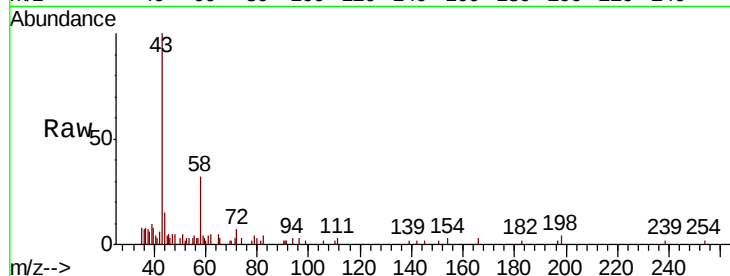
C-1

Tgt Ion: 43 Resp: 6299

Ion Ratio Lower Upper

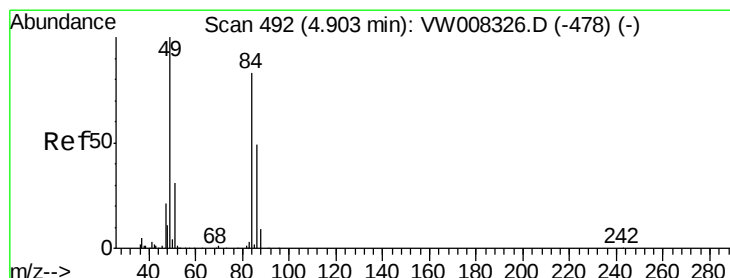
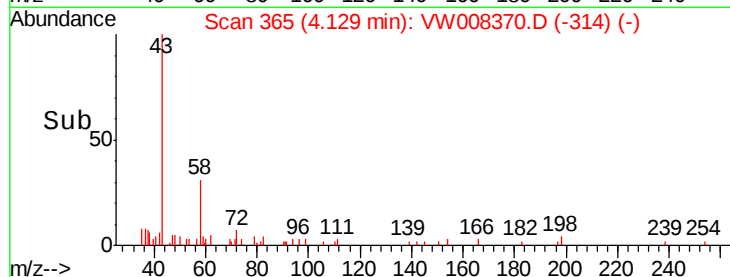
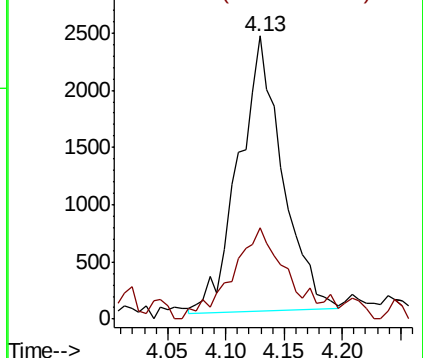
43 100

58 29.6 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 2.291 ug/l

RT: 4.92 min Scan# 495

Delta R.T. 0.02 min

Lab File: VW008370.D

Acq: 21 Jan 2019 13:00

Tgt Ion: 84 Resp: 7337

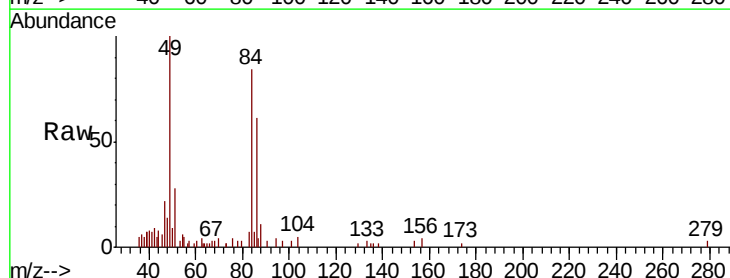
Ion Ratio Lower Upper

84 100

49 113.9 95.9 143.9

51 30.5 29.3 43.9

86 72.2 47.4 71.2#

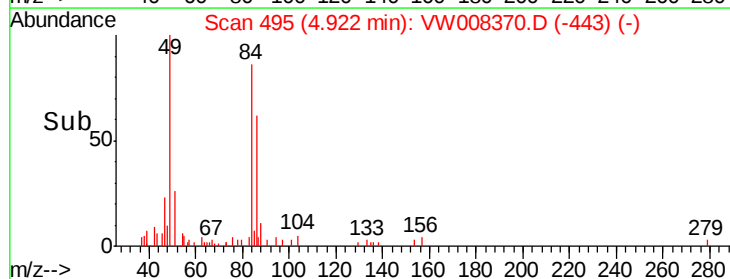
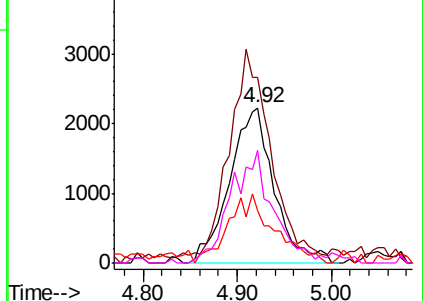


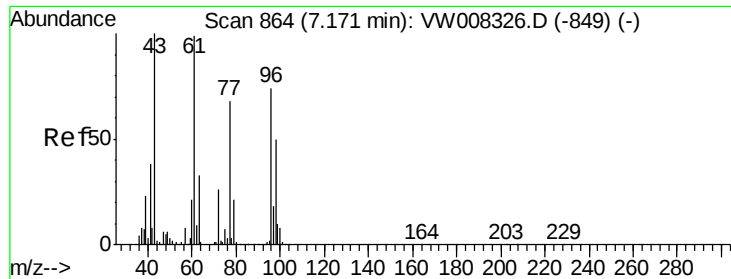
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW

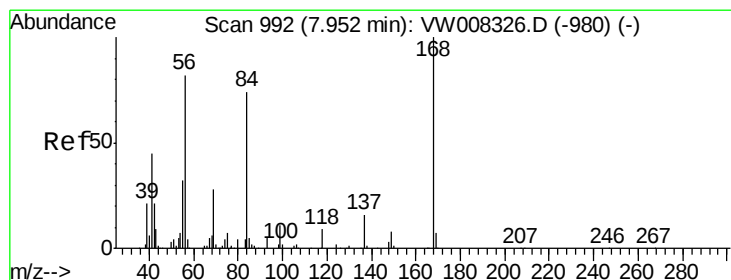
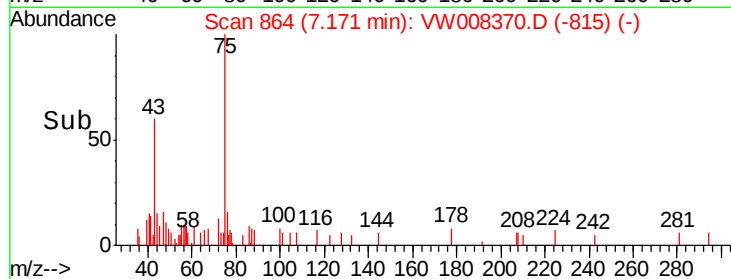
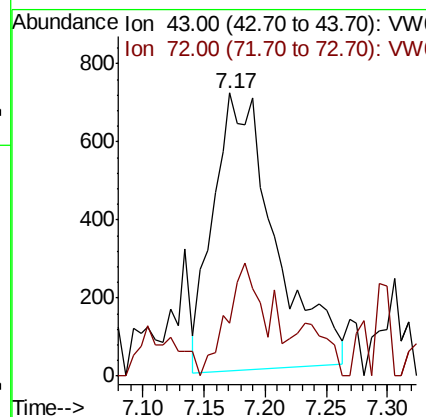
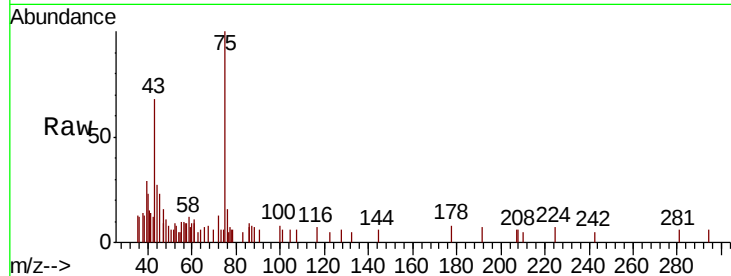




#25
 2-Butanone
 Concen: 6.982 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. 0.00 min
 Lab File: VW008370.D
 Acq: 21 Jan 2019 13:00

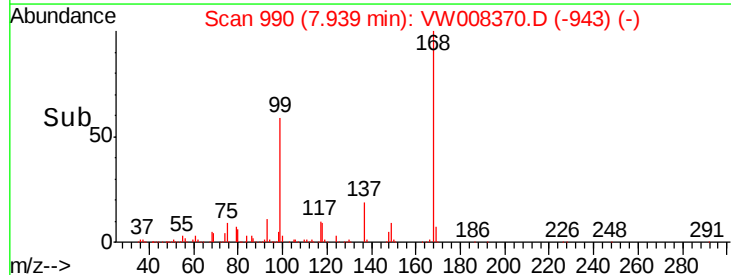
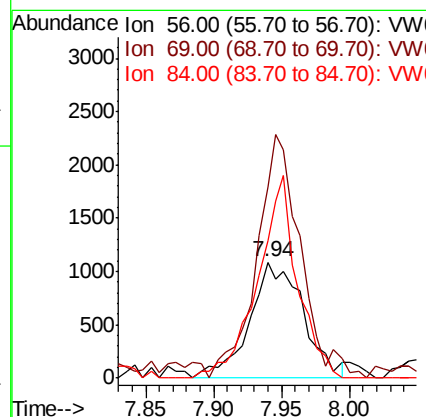
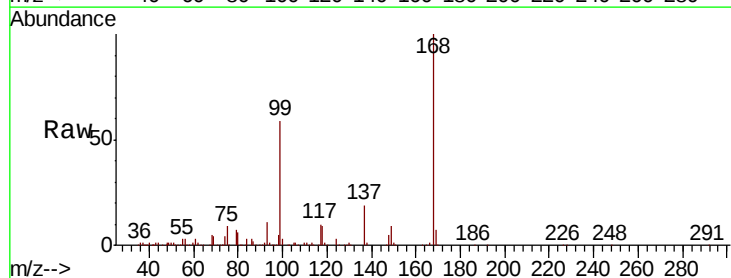
Instrument :
 MSVOA_W
 ClientSampled :
 C-1

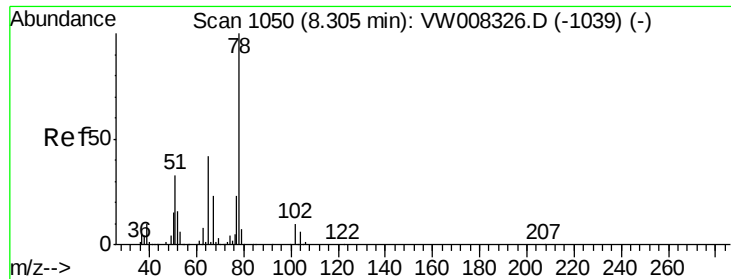
Tgt Ion: 43 Resp: 2491
 Ion Ratio Lower Upper
 43 100
 72 21.6 21.2 31.8



#31
 Cyclohexane
 Concen: 1.337 ug/l
 RT: 7.94 min Scan# 990
 Delta R.T. -0.01 min
 Lab File: VW008370.D
 Acq: 21 Jan 2019 13:00

Tgt Ion: 56 Resp: 2996
 Ion Ratio Lower Upper
 56 100
 69 152.2 27.0 40.6#
 84 118.5 72.5 108.7#





#33

1,2-Dichloroethane-d4

Concen: 57.225 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW008370.D

Acq: 21 Jan 2019 13:00

Instrument :

MSVOA_W

ClientSampleId :

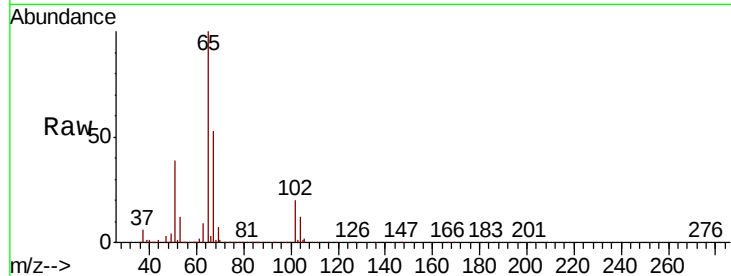
C-1

Tgt Ion: 65 Resp: 68634

Ion Ratio Lower Upper

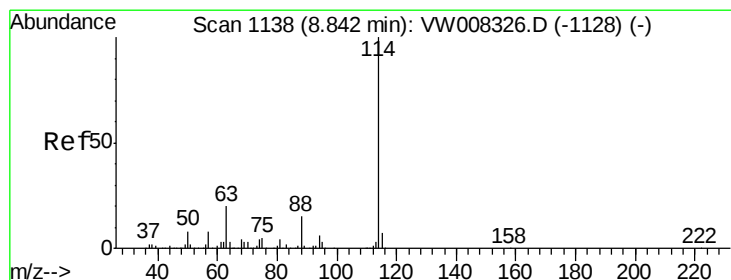
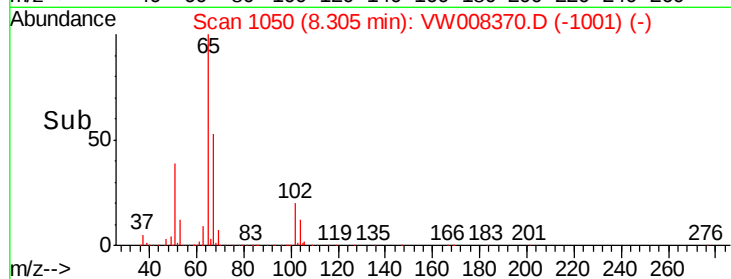
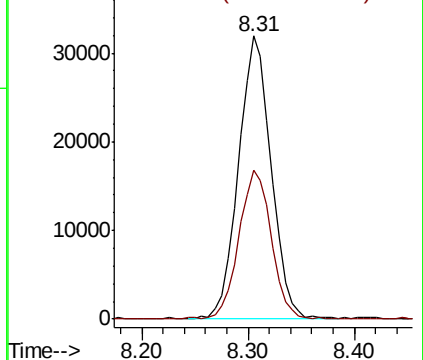
65 100

67 52.9 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW008370.D

Acq: 21 Jan 2019 13:00

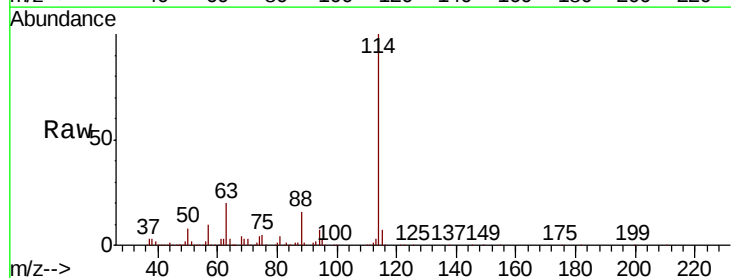
Tgt Ion: 114 Resp: 202069

Ion Ratio Lower Upper

114 100

63 19.9 0.0 40.8

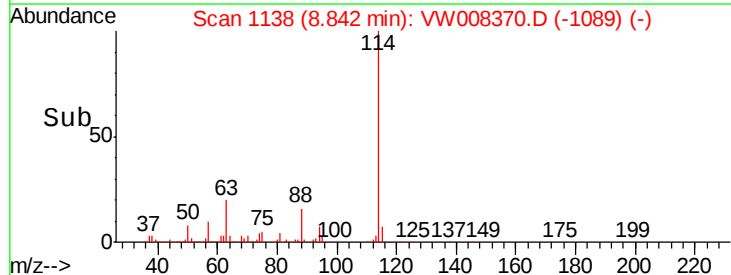
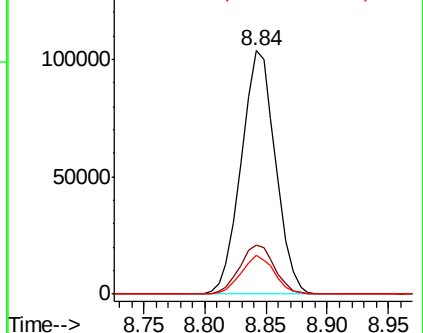
88 15.8 0.0 30.4

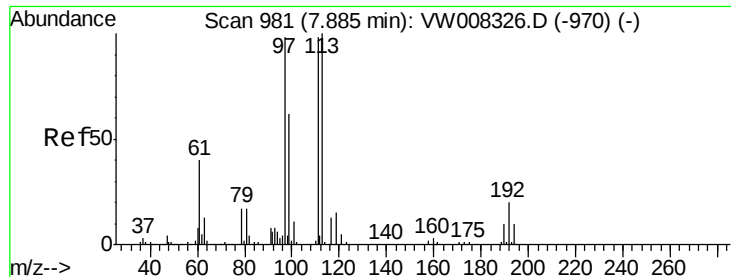


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW





#35

Dibromofluoromethane

Concen: 50.773 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW008370.D

Acq: 21 Jan 2019 13:00

Instrument :
MSVOA_W
ClientSampleId :
C-1

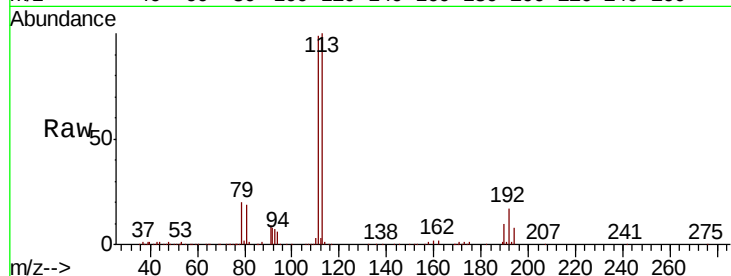
Tgt Ion:113 Resp: 65491

Ion Ratio Lower Upper

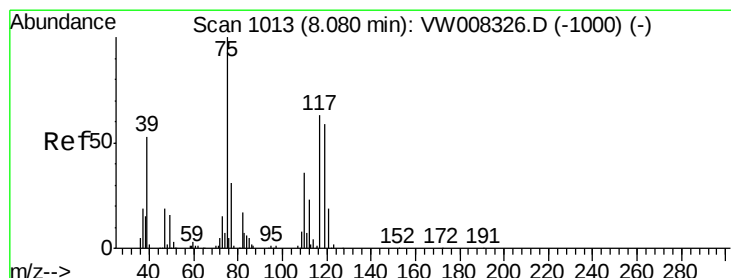
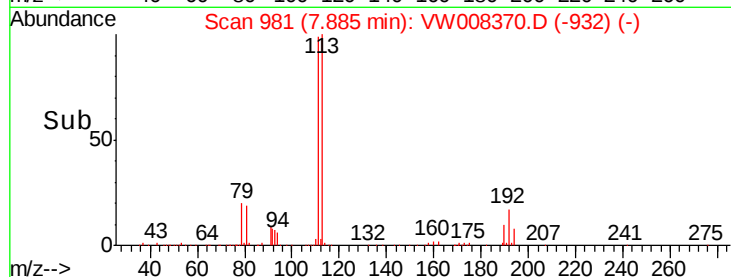
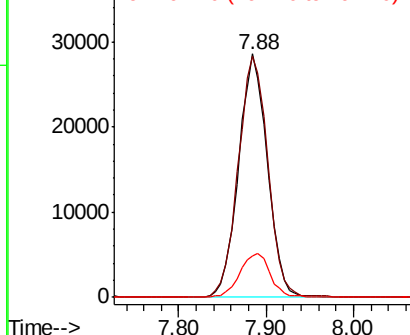
113 100

111 101.9 81.8 122.8

192 19.0 16.3 24.5



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: 4.838 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW008370.D

Acq: 21 Jan 2019 13:00

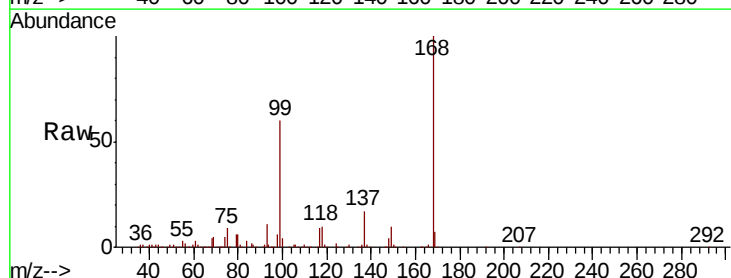
Tgt Ion: 75 Resp: 9835

Ion Ratio Lower Upper

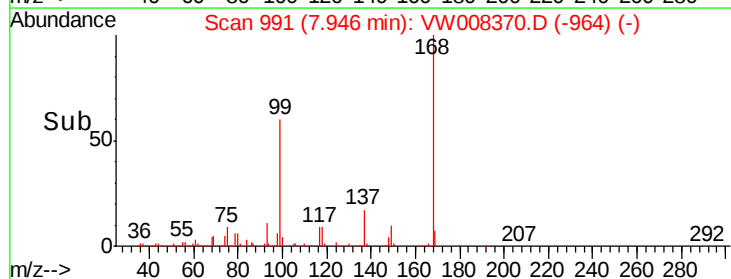
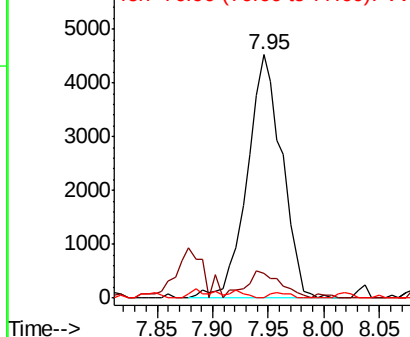
75 100

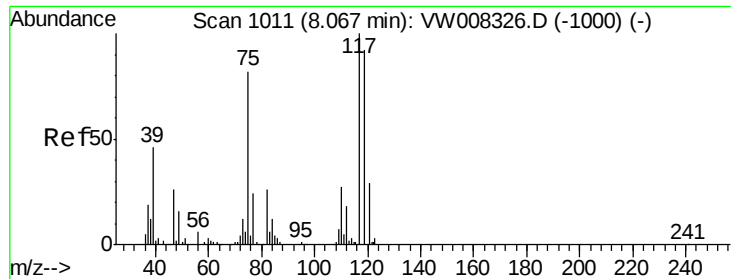
110 10.0 17.5 52.6#

77 1.2 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VW

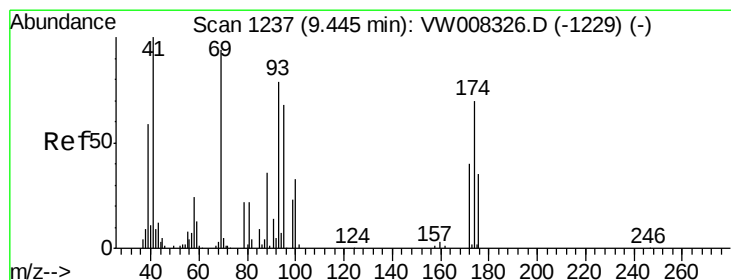
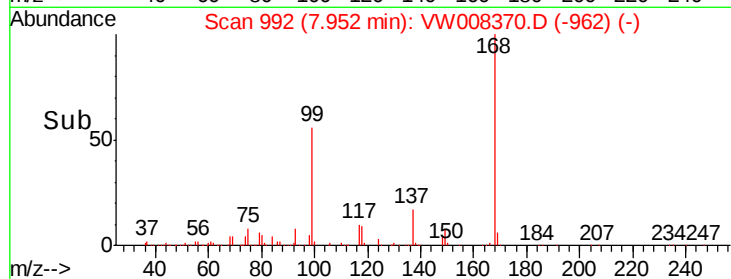
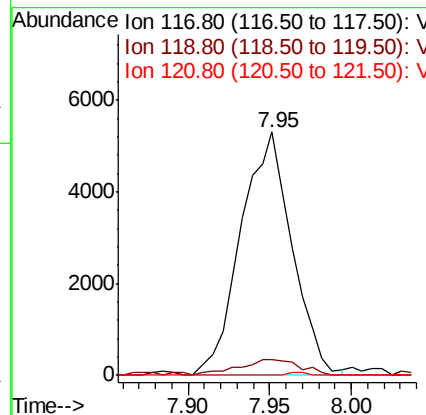
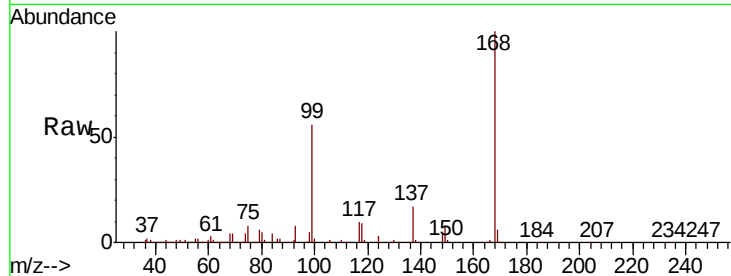




#38
Carbon Tetrachloride
Concen: 5.750 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW008370.D
Acq: 21 Jan 2019 13:00

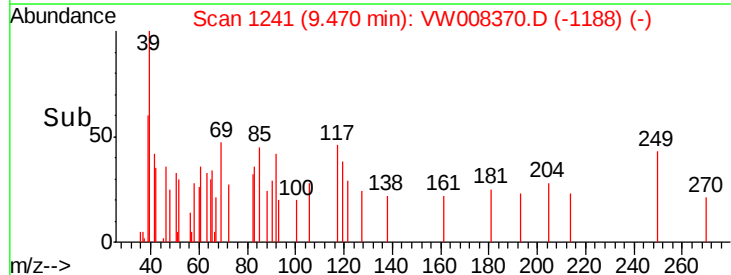
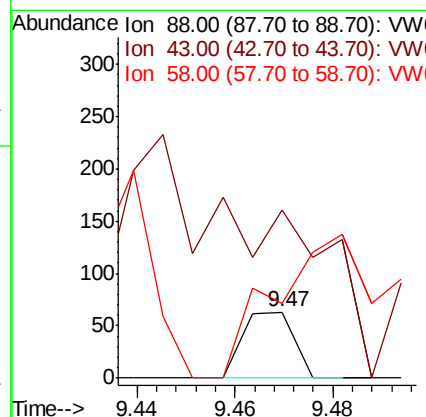
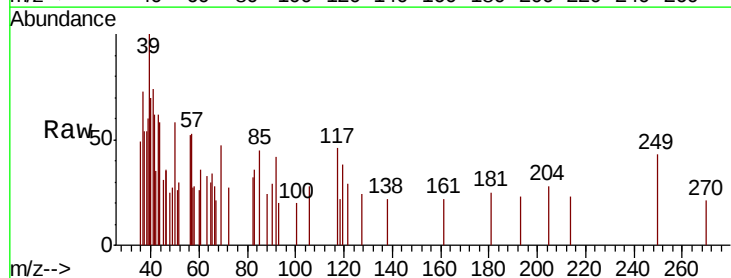
Instrument :
MSVOA_W
ClientSampled :
C-1

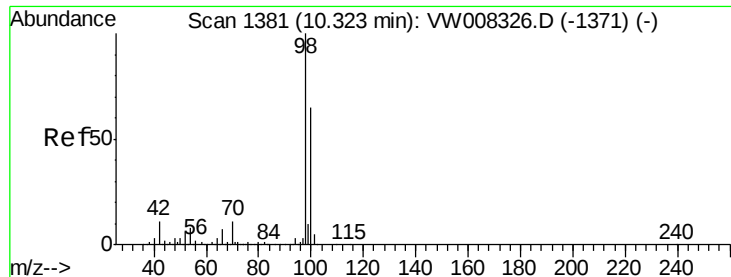
Tgt Ion: 117 Resp: 11544
Ion Ratio Lower Upper
117 100
119 6.6 73.8 110.6#
121 0.0 23.4 35.0#



#49
1,4-Dioxane
Concen: 3.749 ug/l
RT: 9.47 min Scan# 1241
Delta R.T. 0.02 min
Lab File: VW008370.D
Acq: 21 Jan 2019 13:00

Tgt Ion: 88 Resp: 45
Ion Ratio Lower Upper
88 100
43 0.0 27.1 40.7#
58 473.3 57.9 86.9#





#50

Toluene-d8

Concen: 50.086 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008370.D

Acq: 21 Jan 2019 13:00

Instrument :

MSVOA_W

ClientSampleId :

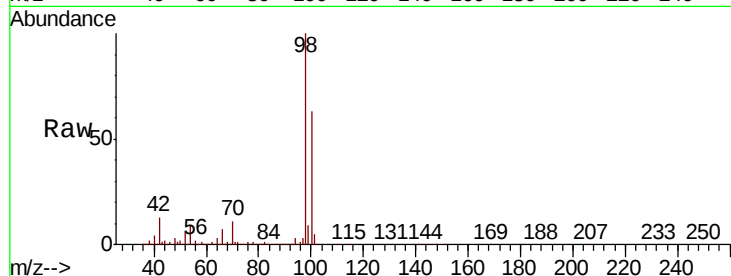
C-1

Tgt Ion: 98 Resp: 253804

Ion Ratio Lower Upper

98 100

100 64.2 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

10.32

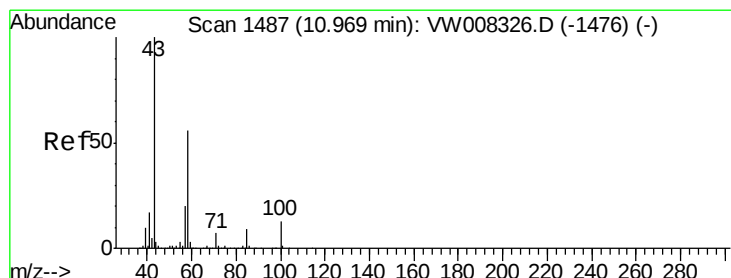
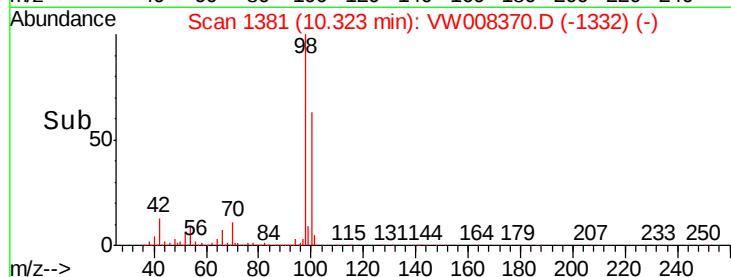
150000

100000

50000

0

Time-->



#59

2-Hexanone

Concen: 1.027 ug/l

RT: 10.98 min Scan# 1488

Delta R.T. 0.01 min

Lab File: VW008370.D

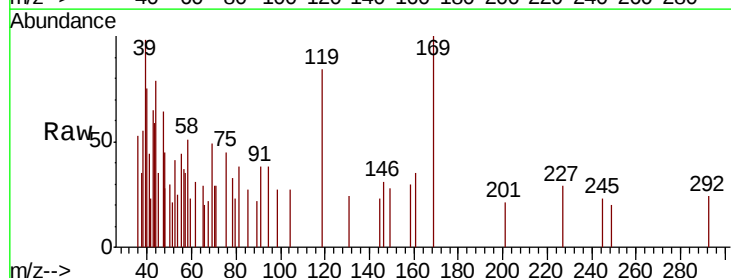
Acq: 21 Jan 2019 13:00

Tgt Ion: 43 Resp: 577

Ion Ratio Lower Upper

43 100

58 27.6 27.5 82.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

10.98

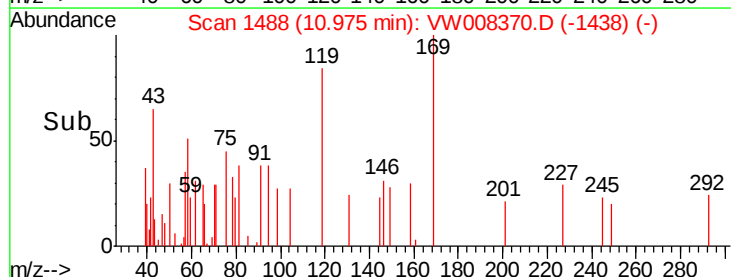
300

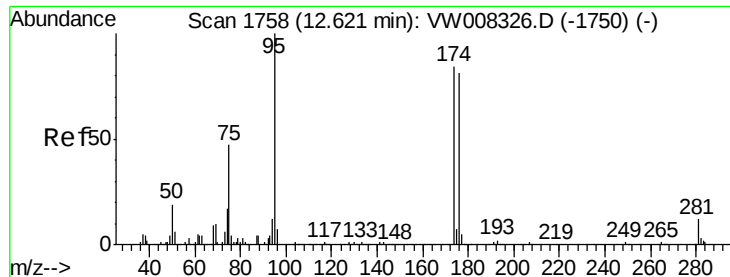
200

100

0

Time-->

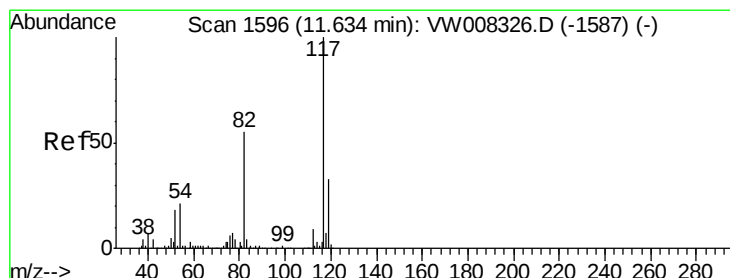
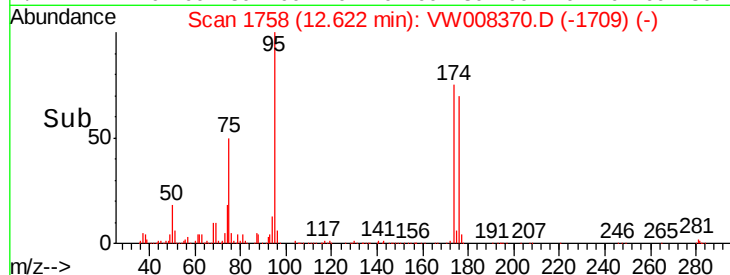
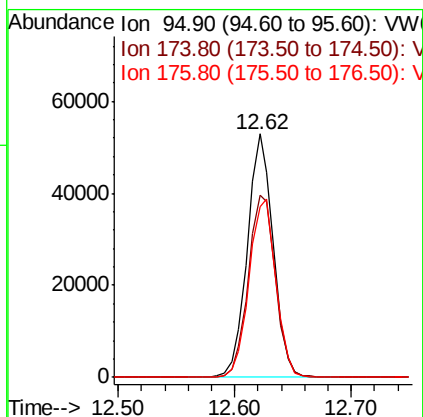
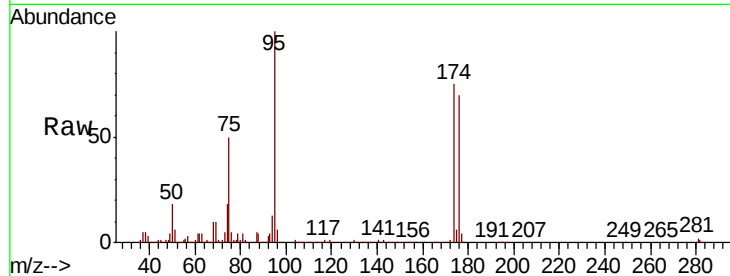




#62
4-Bromofluorobenzene
Concen: 45.190 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW008370.D
Acq: 21 Jan 2019 13:00

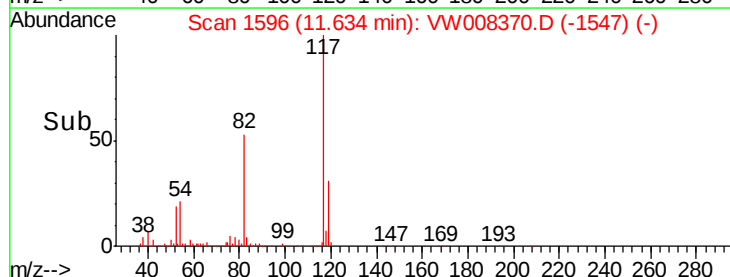
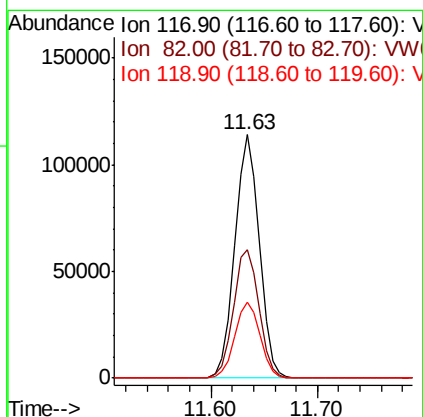
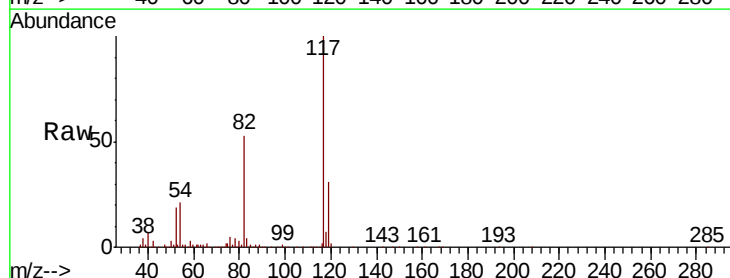
Instrument :
MSVOA_W
ClientSampleId :
C-1

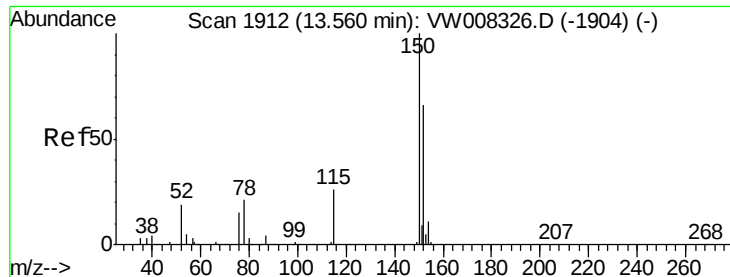
Tgt Ion: 95 Resp: 82129
Ion Ratio Lower Upper
95 100
174 78.5 0.0 166.0
176 76.2 0.0 160.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW008370.D
Acq: 21 Jan 2019 13:00

Tgt Ion: 117 Resp: 184589
Ion Ratio Lower Upper
117 100
82 52.5 44.3 66.5
119 30.9 26.3 39.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW008370.D

Acq: 21 Jan 2019 13:00

Instrument :

MSVOA_W

ClientSampled :

C-1

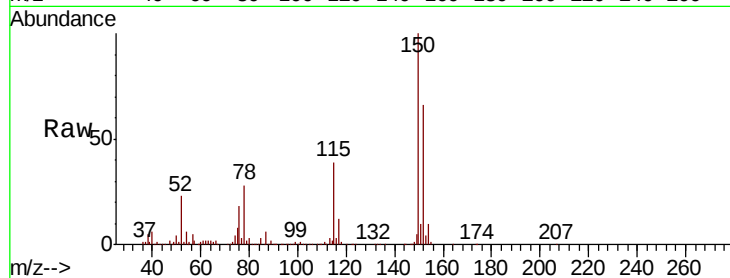
Tgt Ion:152 Resp: 84531

Ion Ratio Lower Upper

152 100

115 58.1 28.8 86.4

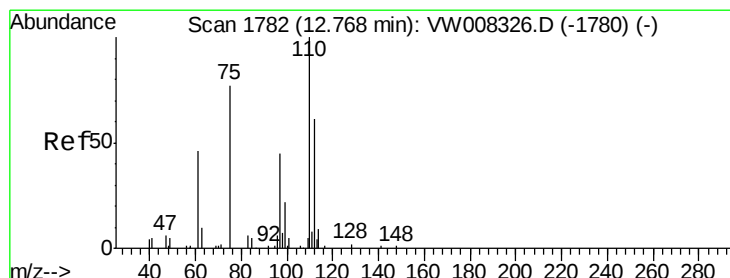
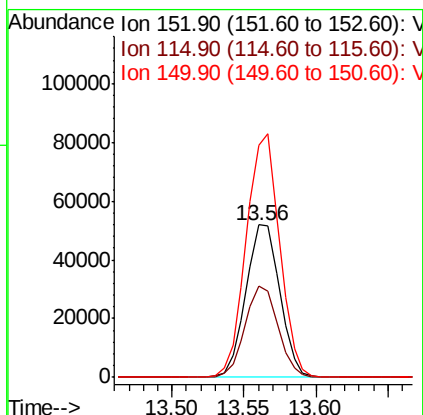
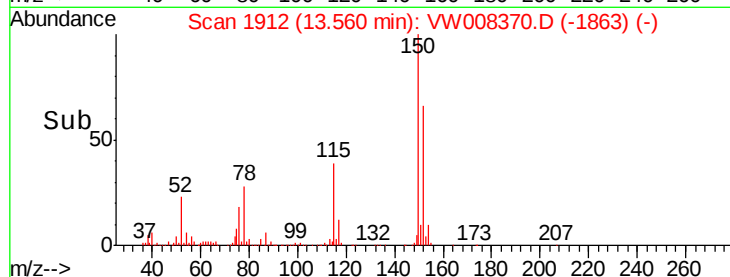
150 156.5 0.0 351.4



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: 54.294 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008370.D

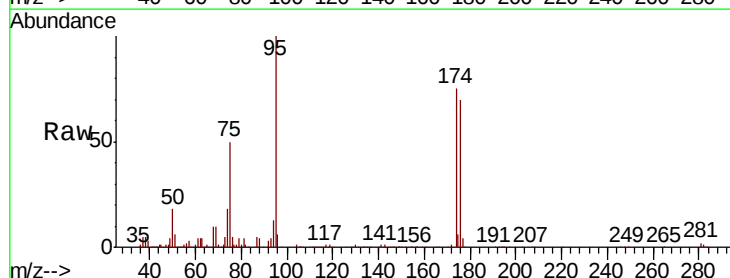
Acq: 21 Jan 2019 13:00

Tgt Ion: 75 Resp: 41795

Ion Ratio Lower Upper

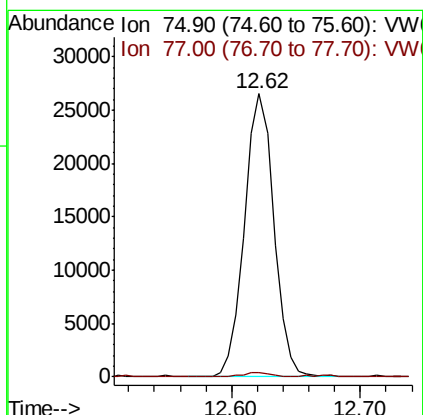
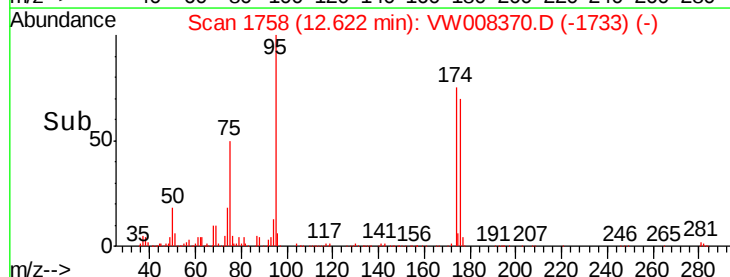
75 100

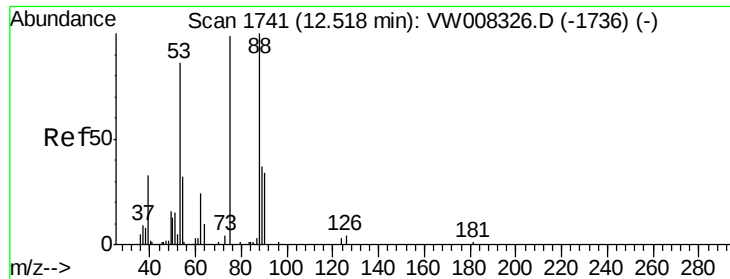
77 1.3 175.3 526.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 129.569 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW008370.D

Acq: 21 Jan 2019 13:00

Instrument :

MSVOA_W

ClientSampleId :

C-1

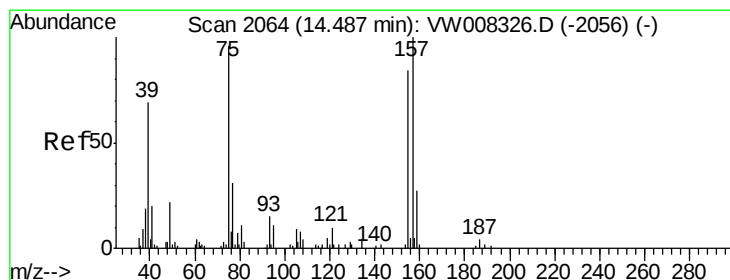
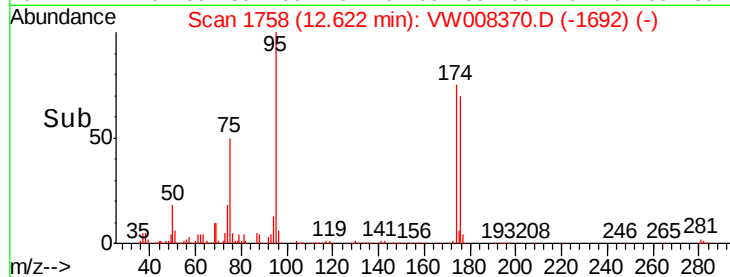
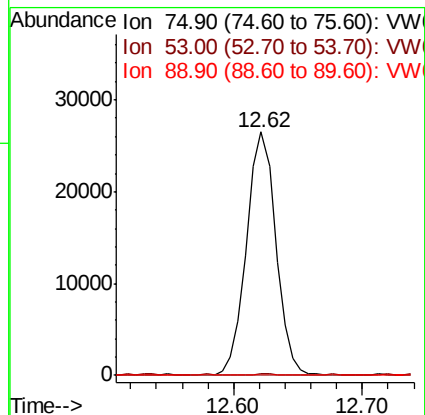
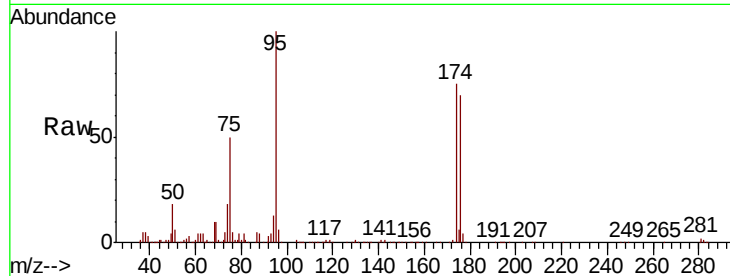
Tgt Ion: 75 Resp: 41795

Ion Ratio Lower Upper

75 100

53 0.8 76.2 114.4#

89 0.2 36.7 55.1#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.255 ug/l

RT: 14.51 min Scan# 2067

Delta R.T. 0.02 min

Lab File: VW008370.D

Acq: 21 Jan 2019 13:00

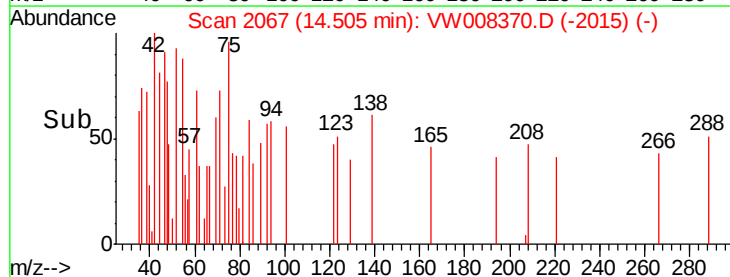
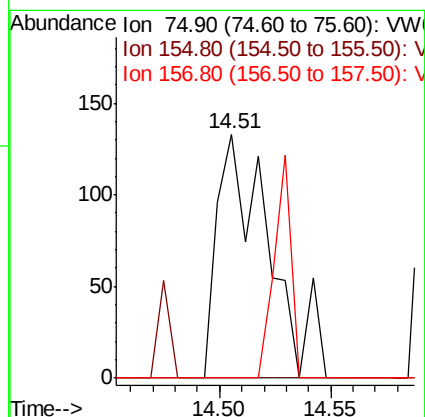
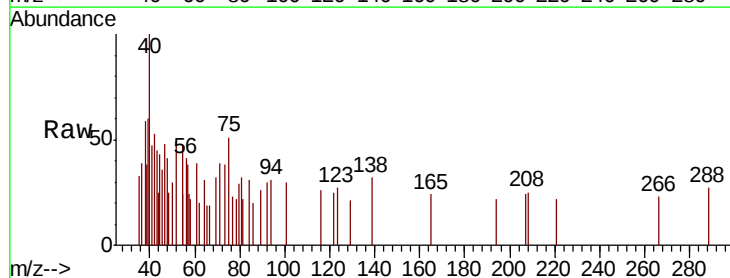
Tgt Ion: 75 Resp: 215

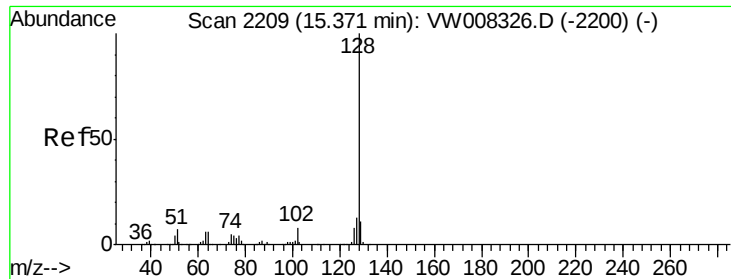
Ion Ratio Lower Upper

75 100

155 0.0 44.7 134.1#

157 0.0 53.9 161.8#





#95
Naphthalene
Concen: 2.622 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.01 min
Lab File: VW008370.D
Acq: 21 Jan 2019 13:00

Instrument :
MSVOA_W
ClientSampleId :
C-1

Tgt Ion:128 Resp: 996
Ion Ratio Lower Upper
128 100
127 5.4 10.5 15.7#
129 4.1 8.8 13.2#

