

Data Path : W:\HPCHEM1\MSVOA_W\DATA\VW051518\
 Data File : VW002574.D
 Acq On : 16 May 2018 03:03
 Operator : JC/SY
 Sample : J2898-03
 Misc : 4.14G/10ML/MSVOA_W/SOIL
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SP-03

Quant Time: May 16 05:53:42 2018
 Quant Method : W:\HPCHEM1\MSVOA_W\METHOD\82W051518S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 15 03:32:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	29689	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	44354	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	37616	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	13456	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	18152	59.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.34%	
35) Dibromofluoromethane	7.95	113	25	0.09	ug/l	0.07
Spiked Amount	50.000		Recovery	=	0.18%	
50) Toluene-d8	10.33	98	38570	36.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	72.06%	
62) 4-Bromofluorobenzene	12.63	95	12511	31.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	63.92%	

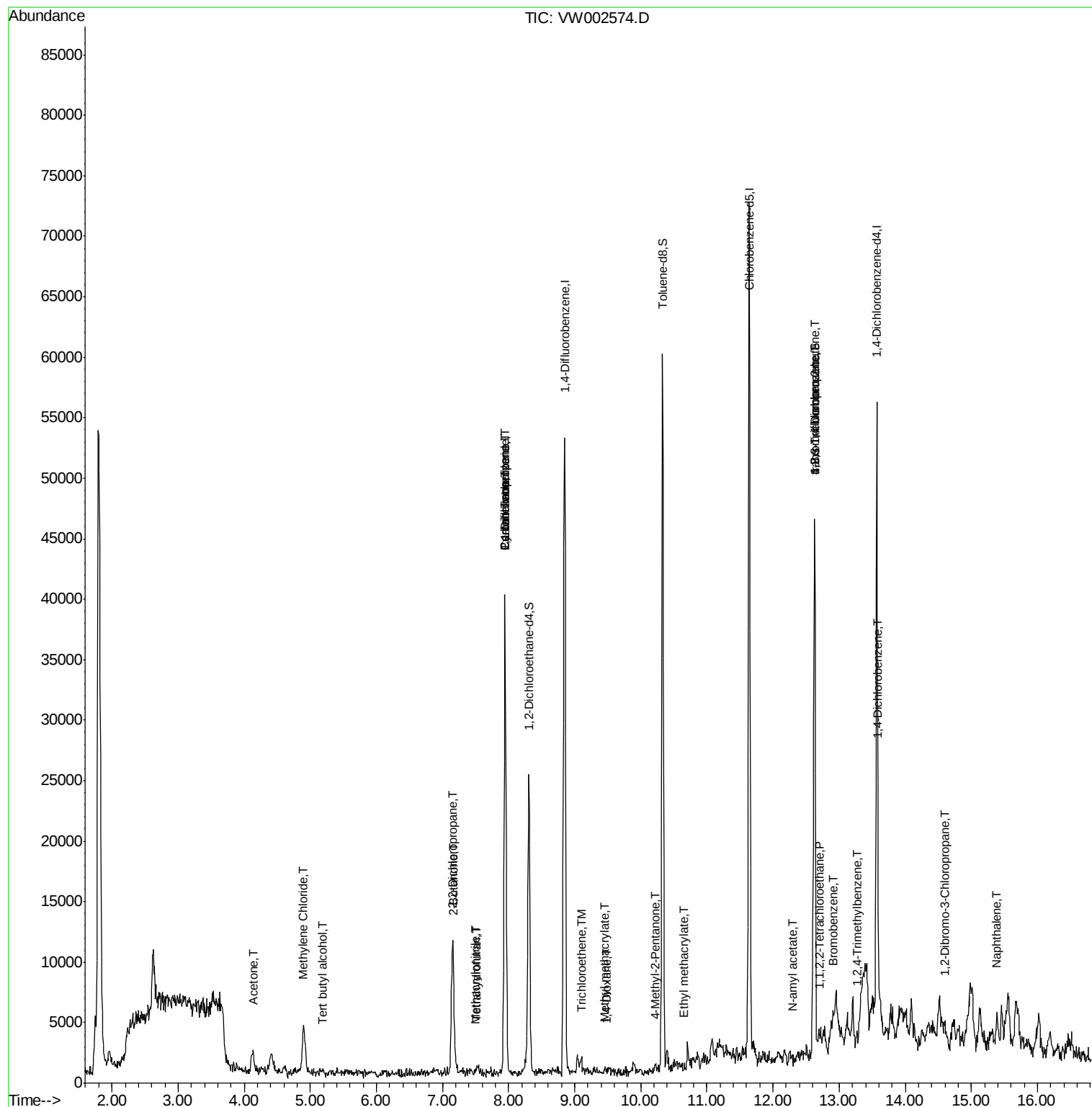
Target Compounds						Qvalue
11) Tert butyl alcohol	5.18	59	80	3.39	ug/l #	72
16) Acetone	4.13	43	2781	42.94	ug/l	94
20) Methylene Chloride	4.90	84	2700	8.18	ug/l	93
25) 2-Butanone	7.17	43	587	6.41	ug/l #	49
26) 2,2-Dichloropropane	7.14	77	874	3.17	ug/l #	51
29) Tetrahydrofuran	7.52	42	202	3.53	ug/l #	60
31) Cyclohexane	7.95	56	817	1.87	ug/l #	71
36) 1,1-Dichloropropene	7.94	75	2356	6.02	ug/l #	49
38) Carbon Tetrachloride	7.95	117	3056	7.97	ug/l #	19
41) Methacrylonitrile	7.51	41	257	2.37	ug/l #	38
44) Trichloroethene	9.10	130	343	1.11	ug/l	58
48) Methyl methacrylate	9.46	41	375	2.07	ug/l #	43
49) 1,4-Dioxane	9.48	88	36	13.26	ug/l #	1
51) 4-Methyl-2-Pentanone	10.22	43	730	3.56	ug/l #	79
56) Ethyl methacrylate	10.66	69	309	1.10	ug/l #	52
74) N-amyl acetate	12.30	43	367	1.74	ug/l #	15
75) 1,1,2,2-Tetrachloroethane	12.71	83	524	3.12	ug/l #	51
76) 1,2,3-Trichloropropane	12.63	75	6200	48.74	ug/l #	100
77) Bromobenzene	12.90	156	1664	7.86	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.63	75	6200	132.90	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.26	105	819	1.11	ug/l	78
88) 1,4-Dichlorobenzene	13.59	146	441	1.04	ug/l #	32
92) 1,2-Dibromo-3-Chloropropan	14.60	75	63	2.12	ug/l	66
95) Naphthalene	15.39	128	1455	2.83	ug/l #	93

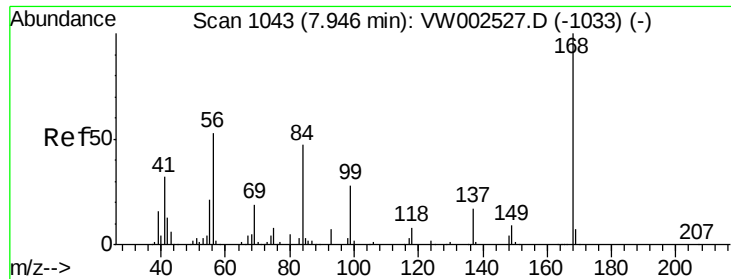
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 15 03:32:11 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1043

Delta R.T. -0.00 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

Instrument :

MSVOA_W

ClientSampleId :

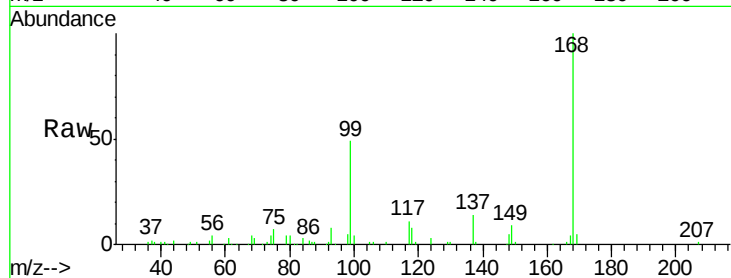
SP-03

Tgt Ion:168 Resp: 29689

Ion Ratio Lower Upper

168 100

99 49.2 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): VW

Ion 98.90 (98.60 to 99.60): VW

7.95

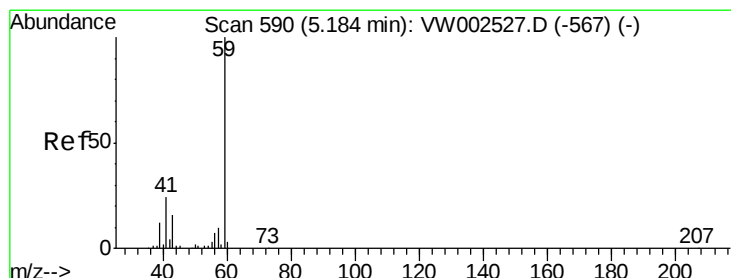
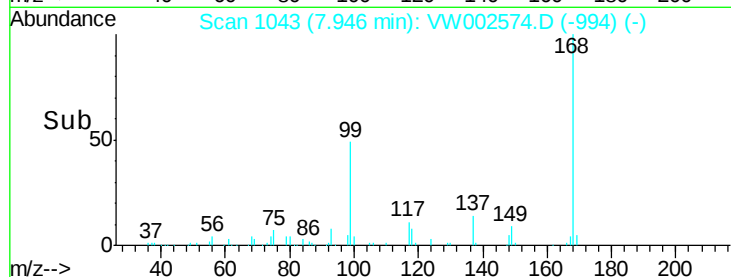
15000

10000

5000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.39 ug/l

RT: 5.18 min Scan# 590

Delta R.T. -0.00 min

Lab File: VW002574.D

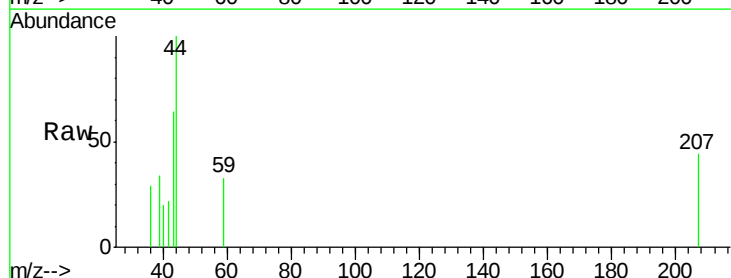
Acq: 16 May 2018 03:03

Tgt Ion: 59 Resp: 80

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.18

100

80

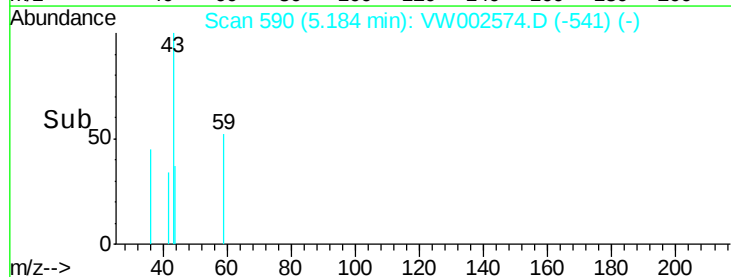
60

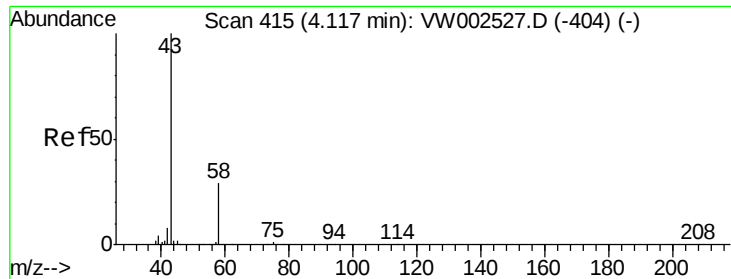
40

20

0

Time-->





#16

Acetone

Concen: 42.94 ug/l

RT: 4.13 min Scan# 417

Delta R.T. 0.01 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

Instrument :

MSVOA_W

ClientSampled :

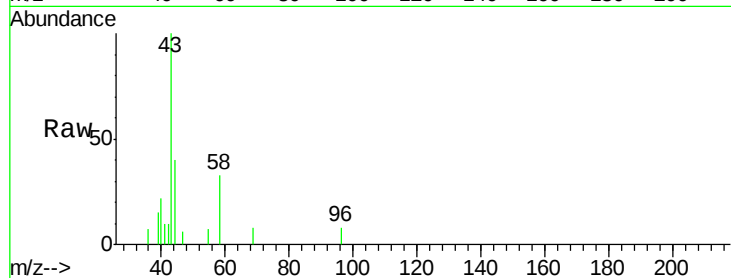
SP-03

Tgt Ion: 43 Resp: 2781

Ion Ratio Lower Upper

43 100

58 32.6 23.4 35.0



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.13

1000

800

600

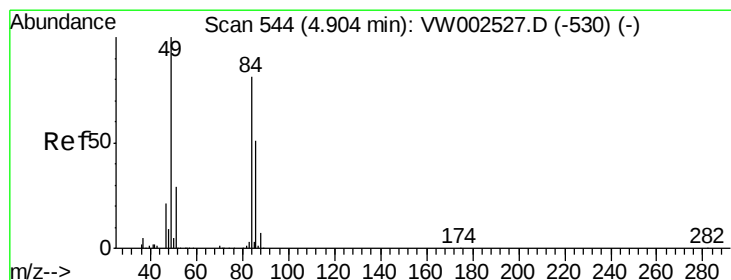
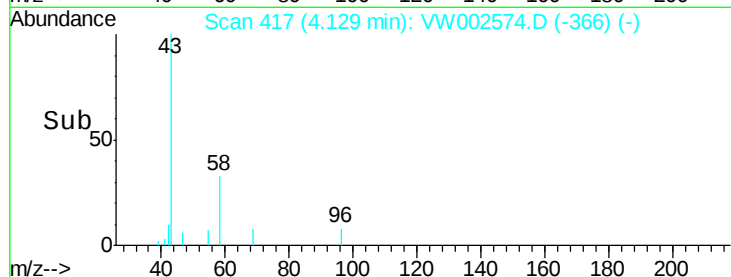
400

200

0

4.05 4.10 4.15 4.20

Time-->



#20

Methylene Chloride

Concen: 8.18 ug/l

RT: 4.90 min Scan# 544

Delta R.T. 0.00 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

Tgt Ion: 84 Resp: 2700

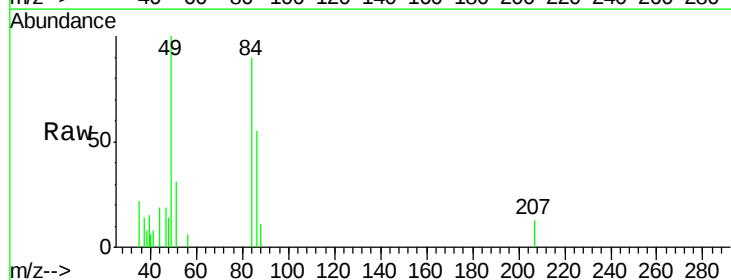
Ion Ratio Lower Upper

84 100

49 111.6 99.4 149.0

51 34.3 29.0 43.6

86 61.0 50.3 75.5



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

1500

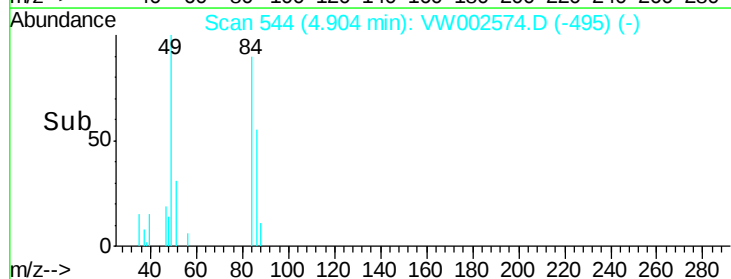
1000

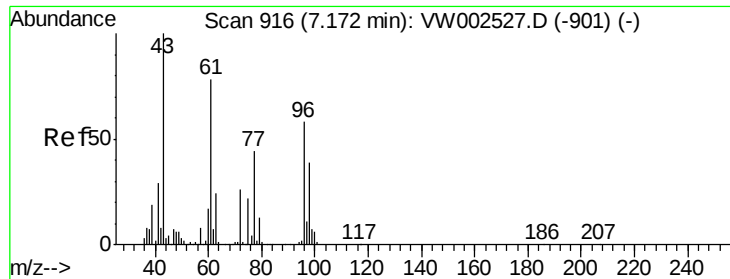
500

0

4.80 4.85 4.90 4.95 5.00

Time-->





#25

2-Butanone

Concen: 6.41 ug/l

RT: 7.17 min Scan# 916

Delta R.T. -0.00 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

Instrument :

MSVOA_W

ClientSampled :

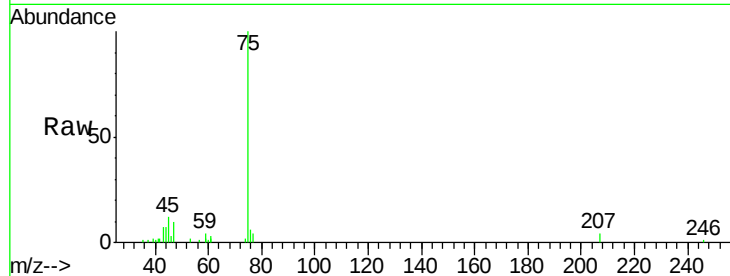
SP-03

Tgt Ion: 43 Resp: 587

Ion Ratio Lower Upper

43 100

72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW

7.17

300

200

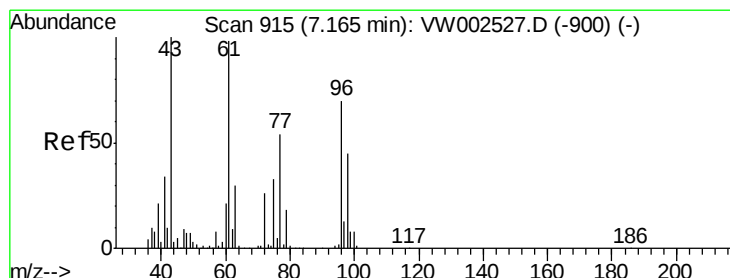
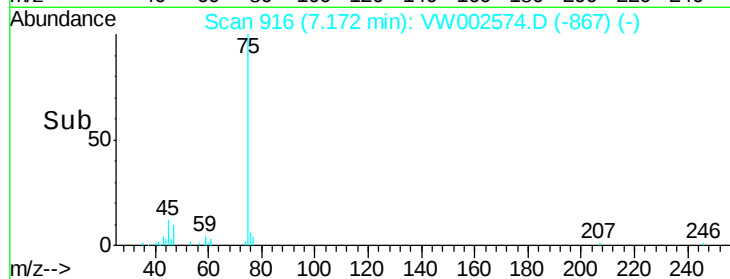
100

0

7.15

7.20

Time-->



#26

2,2-Dichloropropane

Concen: 3.17 ug/l

RT: 7.14 min Scan# 911

Delta R.T. -0.02 min

Lab File: VW002574.D

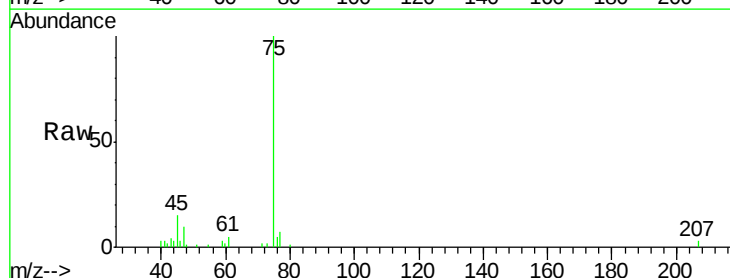
Acq: 16 May 2018 03:03

Tgt Ion: 77 Resp: 874

Ion Ratio Lower Upper

77 100

97 0.0 12.1 36.3#



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW

7.14

400

300

200

100

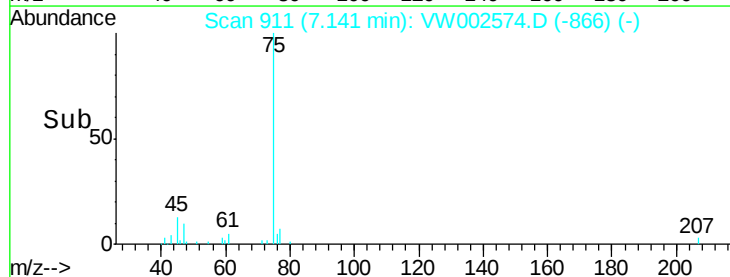
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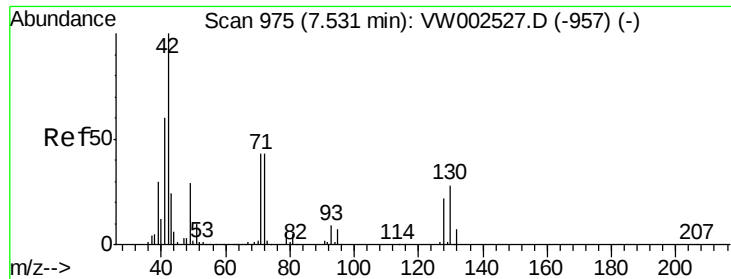
7.10

7.15

7.20

Time-->

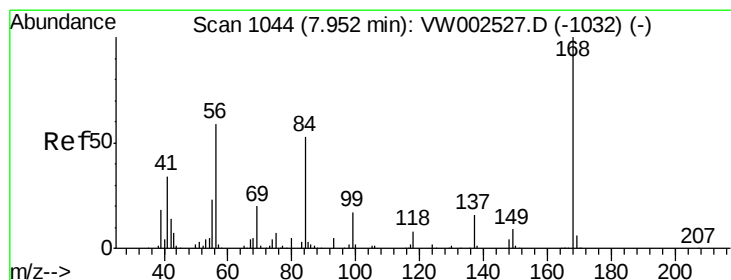
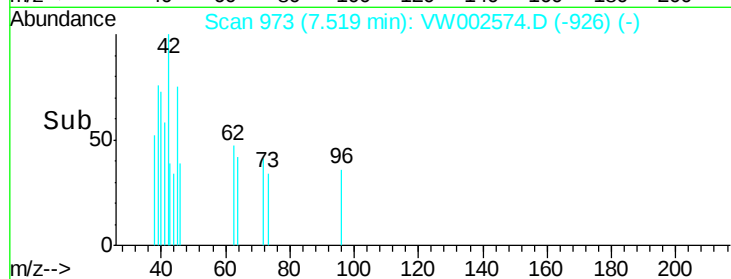
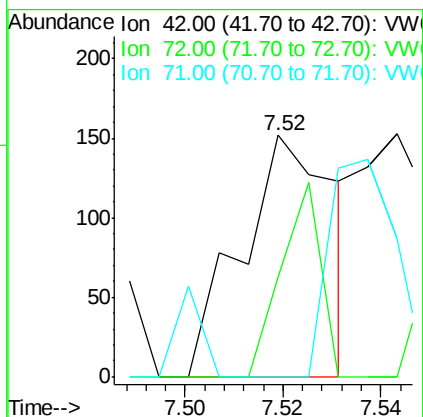
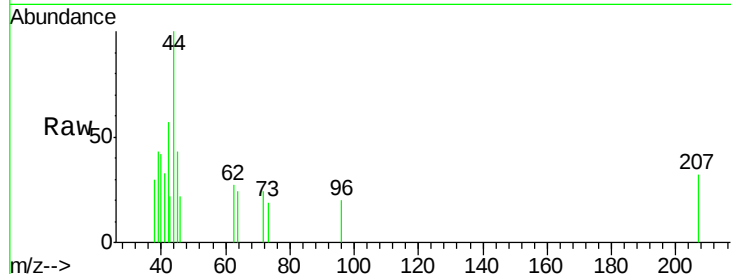




#29
Tetrahydrofuran
Concen: 3.53 ug/l
RT: 7.52 min Scan# 973
Delta R.T. -0.01 min
Lab File: VW002574.D
Acq: 16 May 2018 03:03

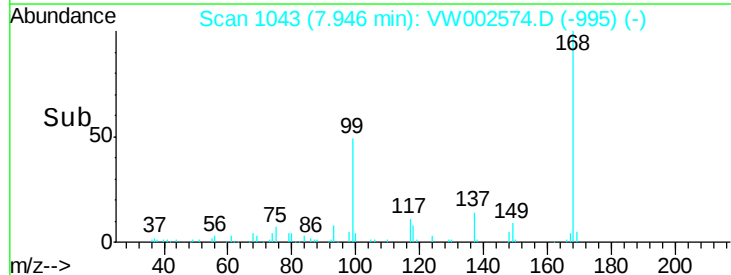
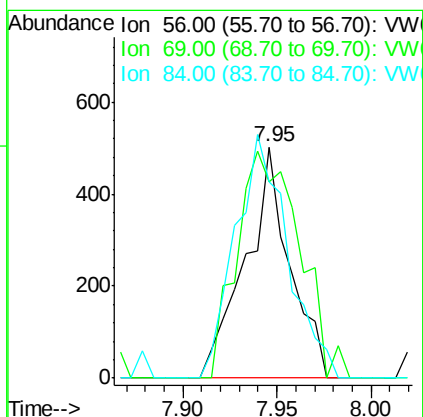
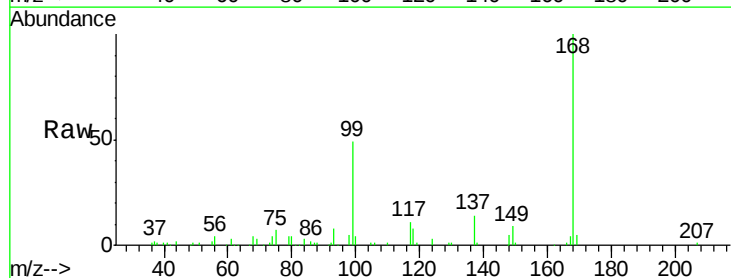
Instrument :
MSVOA_W
ClientSampleId :
SP-03

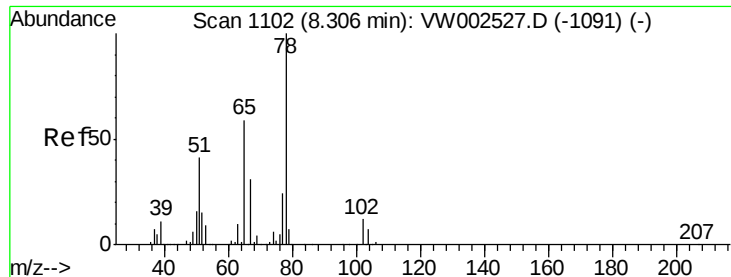
Tgt Ion: 42 Resp: 202
Ion Ratio Lower Upper
42 100
72 33.7 35.0 52.4#
71 0.0 33.0 49.6#



#31
Cyclohexane
Concen: 1.87 ug/l
RT: 7.95 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VW002574.D
Acq: 16 May 2018 03:03

Tgt Ion: 56 Resp: 817
Ion Ratio Lower Upper
56 100
69 84.9 27.0 40.4#
84 84.7 72.2 108.2





#33

1,2-Dichloroethane-d4

Concen: 59.17 ug/l

RT: 8.31 min Scan# 1102

Delta R.T. -0.00 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

Instrument :

MSVOA_W

ClientSampleId :

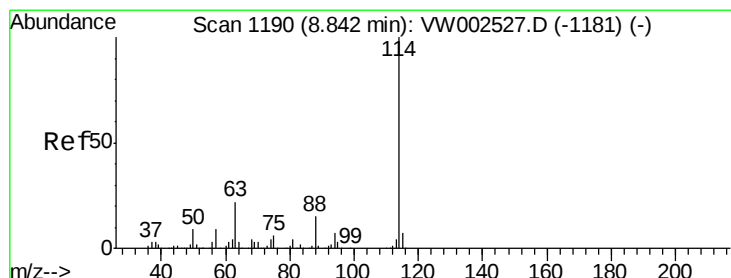
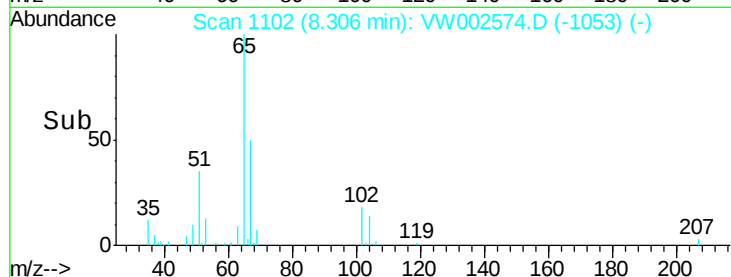
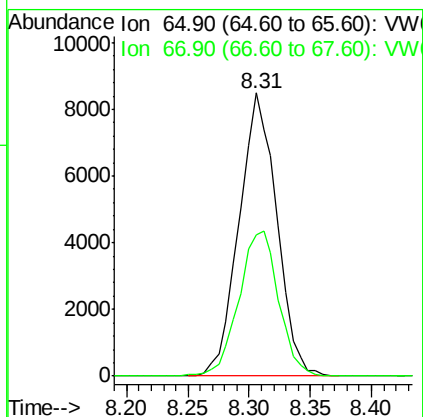
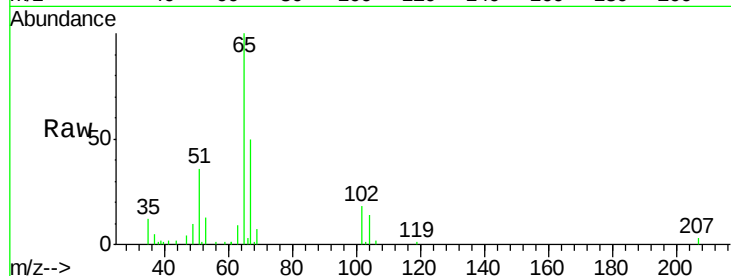
SP-03

Tgt Ion: 65 Resp: 18152

Ion Ratio Lower Upper

65 100

67 53.9 0.0 104.4



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.01 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

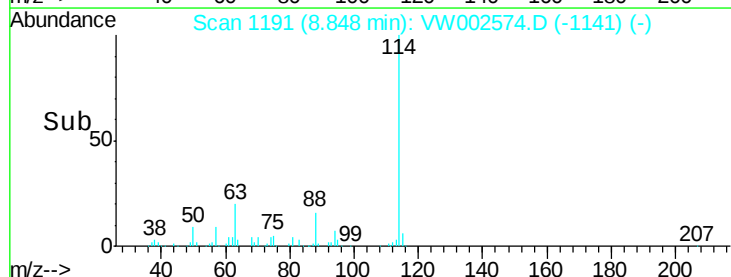
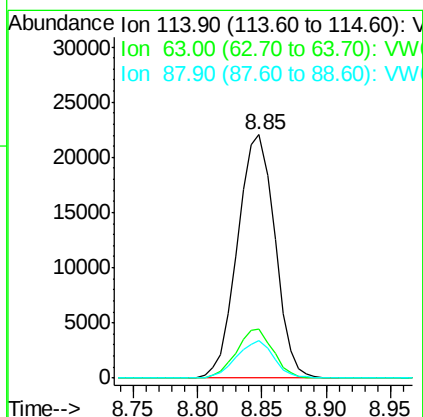
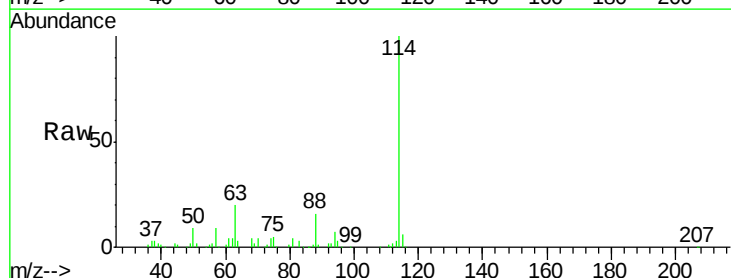
Tgt Ion: 114 Resp: 44354

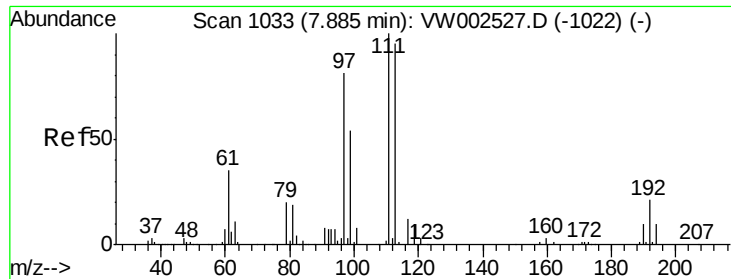
Ion Ratio Lower Upper

114 100

63 20.0 0.0 43.2

88 15.6 0.0 29.2

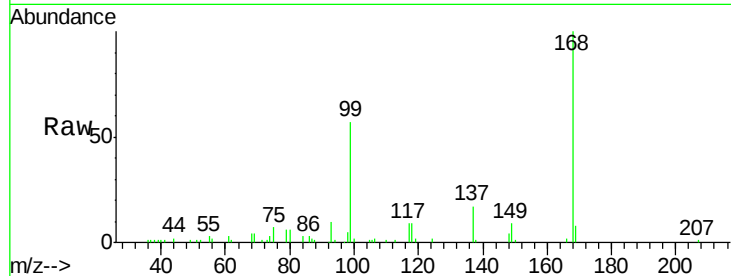




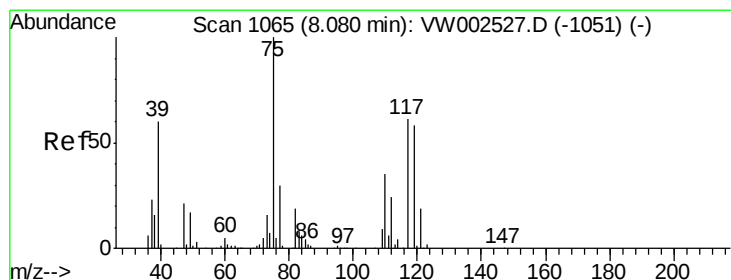
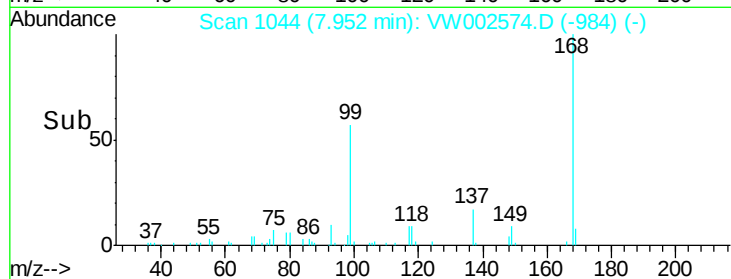
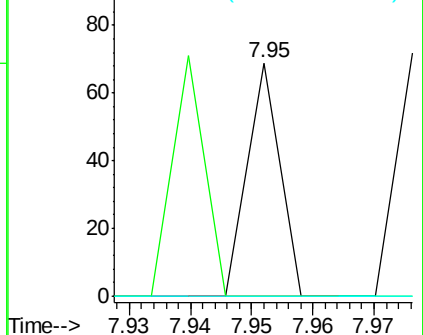
#35
 Dibromofluoromethane
 Concen: 0.09 ug/l
 RT: 7.95 min Scan# 1044
 Delta R.T. 0.07 min
 Lab File: VW002574.D
 Acq: 16 May 2018 03:03

Instrument :
 MSVOA_W
 ClientSampleId :
 SP-03

Tgt Ion: 113 Resp: 25
 Ion Ratio Lower Upper
 113 100
 111 104.0 81.8 122.8
 192 0.0 17.5 26.3#

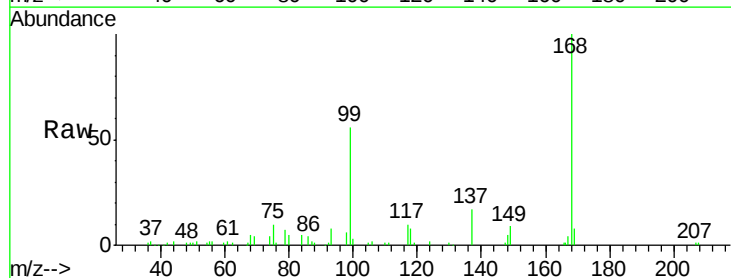


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

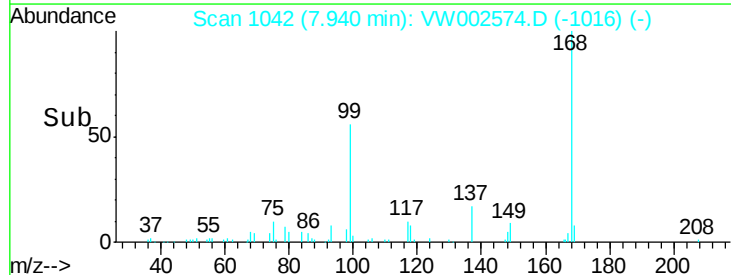
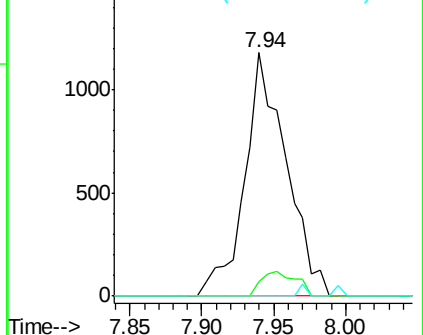


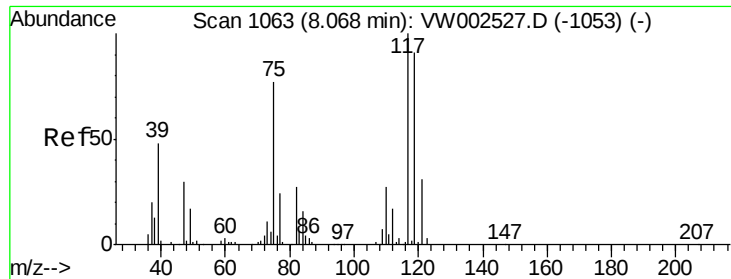
#36
 1,1-Dichloropropene
 Concen: 6.02 ug/l
 RT: 7.94 min Scan# 1042
 Delta R.T. -0.14 min
 Lab File: VW002574.D
 Acq: 16 May 2018 03:03

Tgt Ion: 75 Resp: 2356
 Ion Ratio Lower Upper
 75 100
 110 8.5 17.8 53.5#
 77 0.0 24.5 36.7#



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

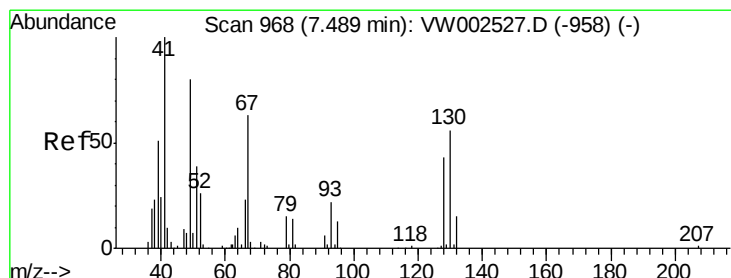
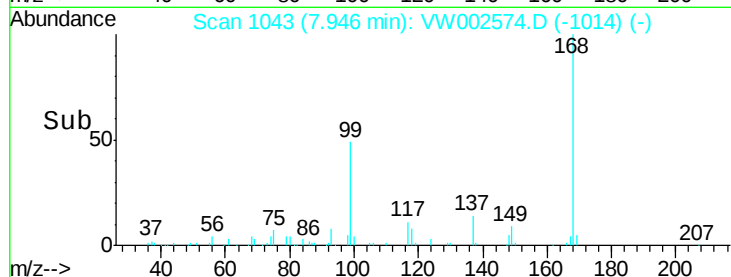
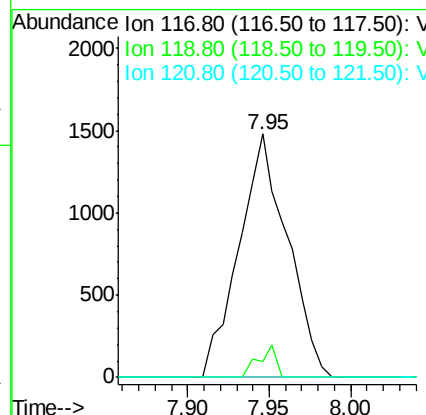
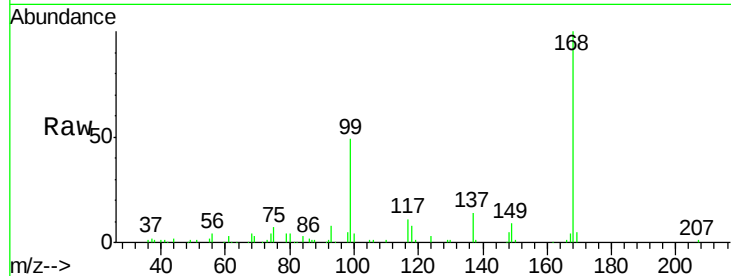




#38
Carbon Tetrachloride
Concen: 7.97 ug/l
RT: 7.95 min Scan# 1043
Delta R.T. -0.12 min
Lab File: VW002574.D
Acq: 16 May 2018 03:03

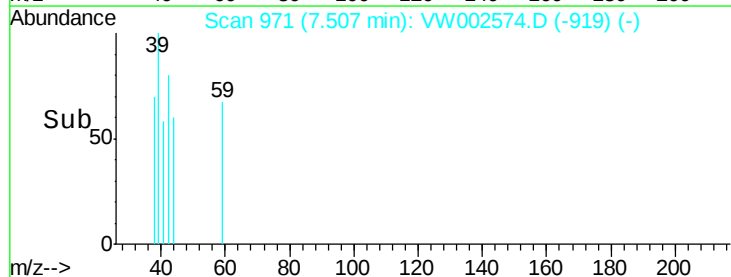
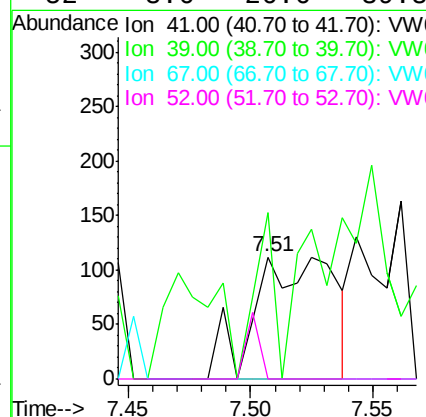
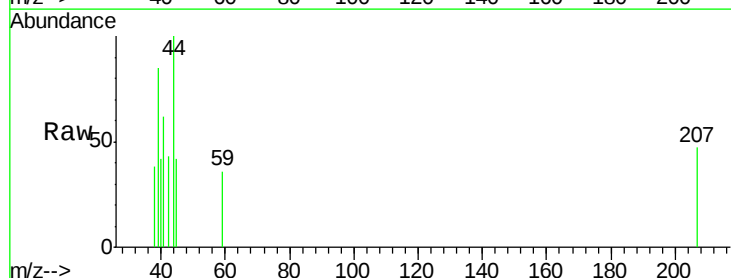
Instrument :
MSVOA_W
ClientSampled :
SP-03

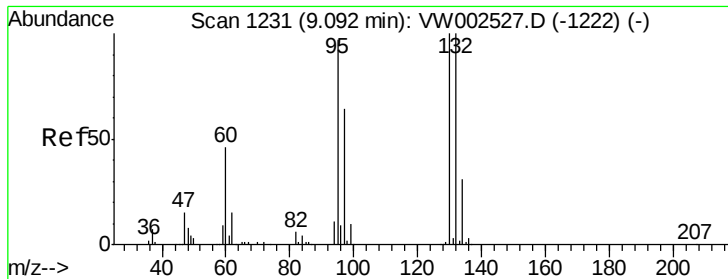
Tgt Ion: 117 Resp: 3056
Ion Ratio Lower Upper
117 100
119 6.7 73.1 109.7#
121 0.0 24.4 36.6#



#41
Methacrylonitrile
Concen: 2.37 ug/l
RT: 7.51 min Scan# 971
Delta R.T. 0.02 min
Lab File: VW002574.D
Acq: 16 May 2018 03:03

Tgt Ion: 41 Resp: 257
Ion Ratio Lower Upper
41 100
39 32.3 51.8 77.8#
67 0.0 59.9 89.9#
52 8.6 26.6 39.8#





#44

Trichloroethene

Concen: 1.11 ug/l

RT: 9.10 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

Instrument :

MSVOA_W

ClientSampled :

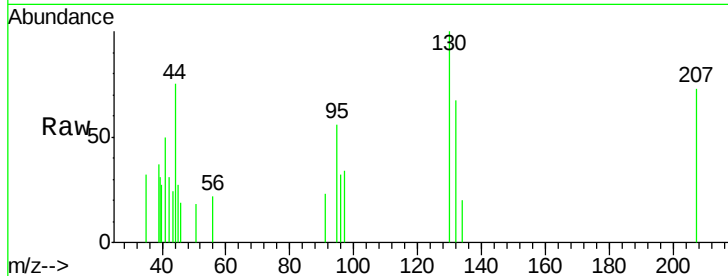
SP-03

Tgt Ion: 130 Resp: 343

Ion Ratio Lower Upper

130 100

95 55.9 0.0 194.6

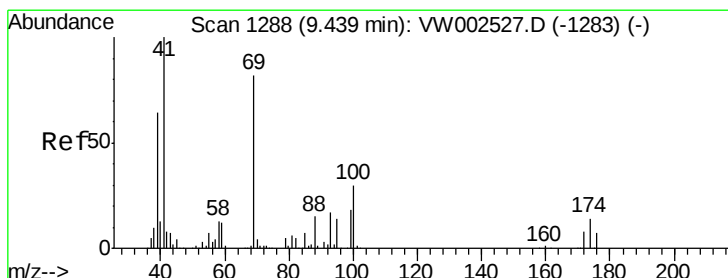
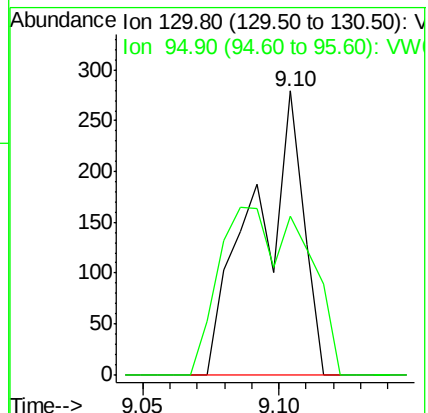
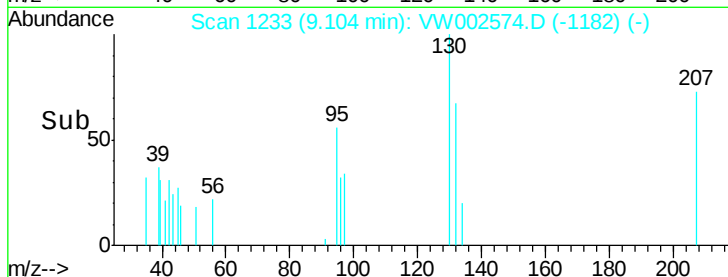


Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

9.10

Time-->



#48

Methyl methacrylate

Concen: 2.07 ug/l

RT: 9.46 min Scan# 1291

Delta R.T. 0.02 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

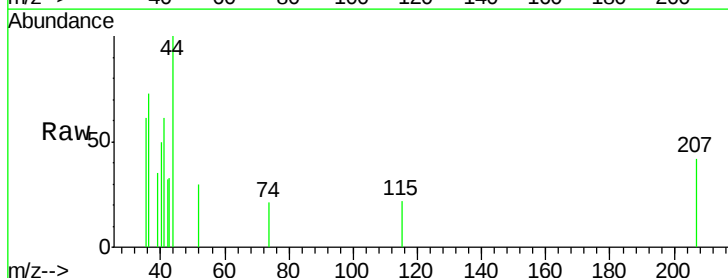
Tgt Ion: 41 Resp: 375

Ion Ratio Lower Upper

41 100

69 13.9 69.7 104.5#

39 45.9 55.0 82.4#



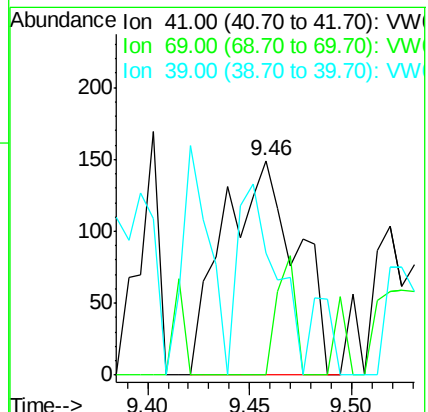
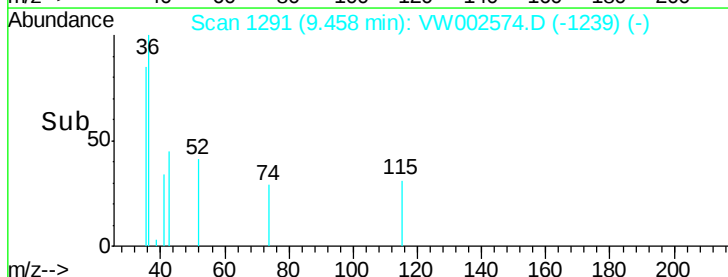
Abundance Ion 41.00 (40.70 to 41.70): VW

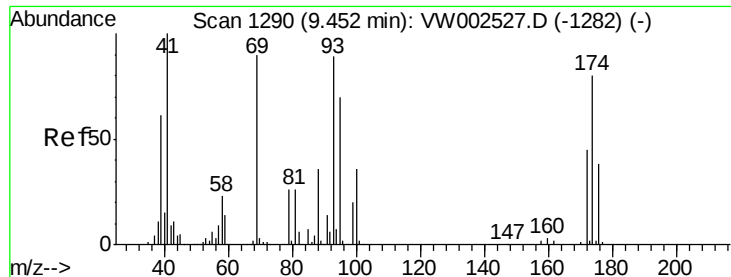
Ion 69.00 (68.70 to 69.70): VW

Ion 39.00 (38.70 to 39.70): VW

9.46

Time-->





#49

1,4-Dioxane

Concen: 13.26 ug/l

RT: 9.48 min Scan# 1295

Delta R.T. 0.03 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

Instrument :

MSVOA_W

ClientSampled :

SP-03

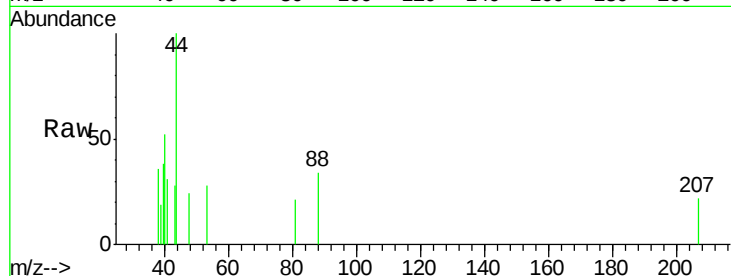
Tgt Ion: 88 Resp: 36

Ion Ratio Lower Upper

88 100

43 752.8 27.0 40.4#

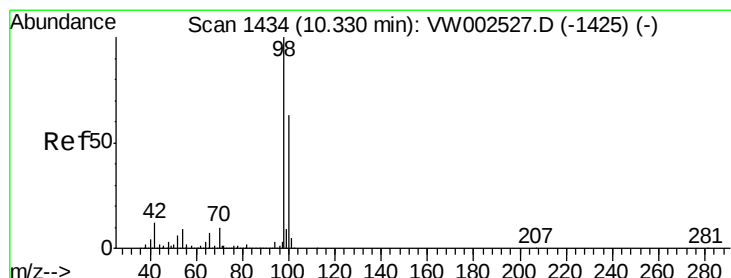
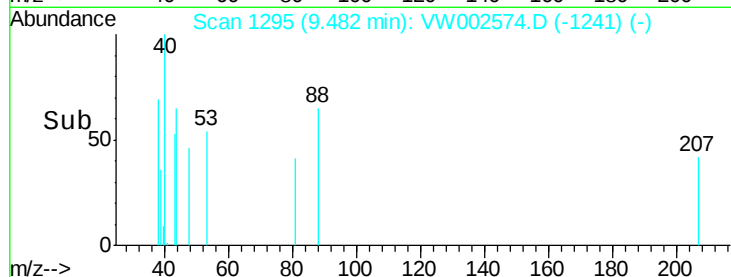
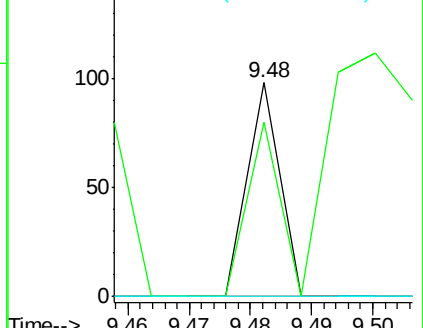
58 0.0 56.9 85.3#



Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50

Toluene-d8

Concen: 36.03 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW002574.D

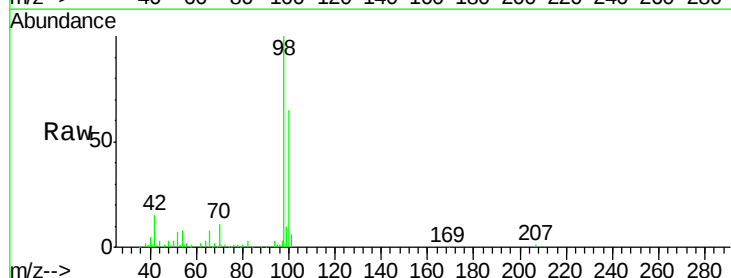
Acq: 16 May 2018 03:03

Tgt Ion: 98 Resp: 38570

Ion Ratio Lower Upper

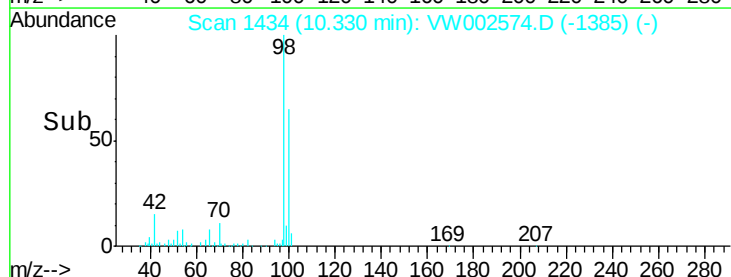
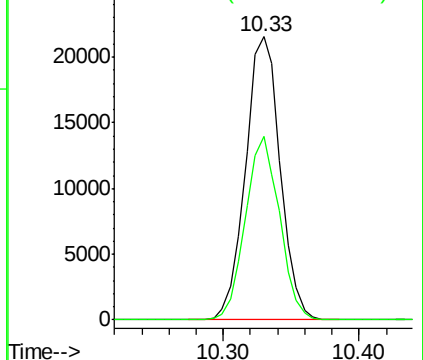
98 100

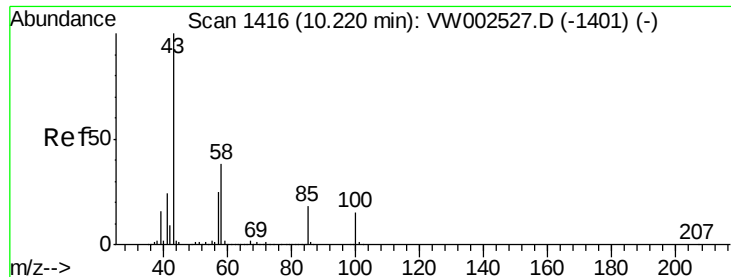
100 63.7 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 3.56 ug/l

RT: 10.22 min Scan# 1416

Delta R.T. -0.00 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

Instrument :

MSVOA_W

ClientSampled :

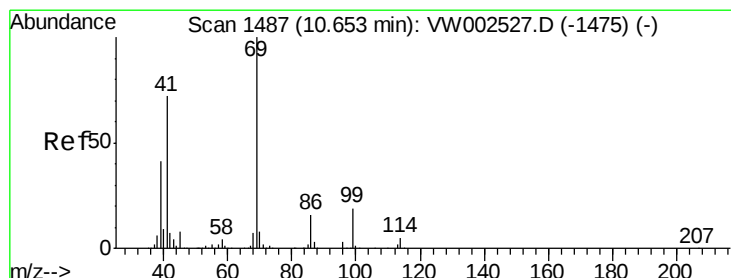
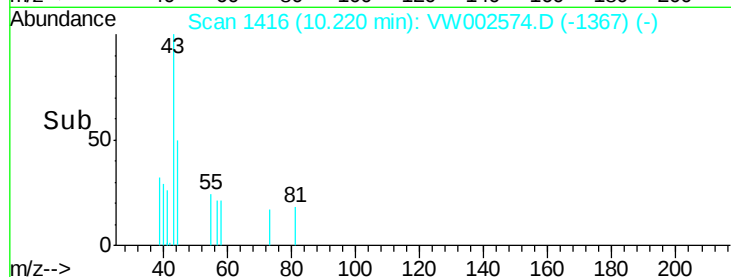
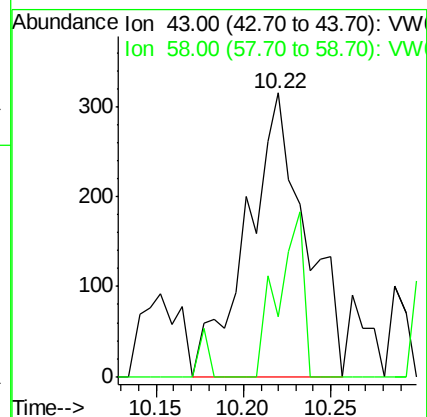
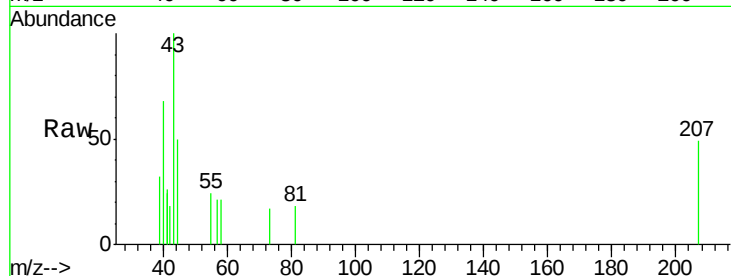
SP-03

Tgt Ion: 43 Resp: 730

Ion Ratio Lower Upper

43 100

58 25.1 30.1 45.1#



#56

Ethyl methacrylate

Concen: 1.10 ug/l

RT: 10.66 min Scan# 1489

Delta R.T. 0.01 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

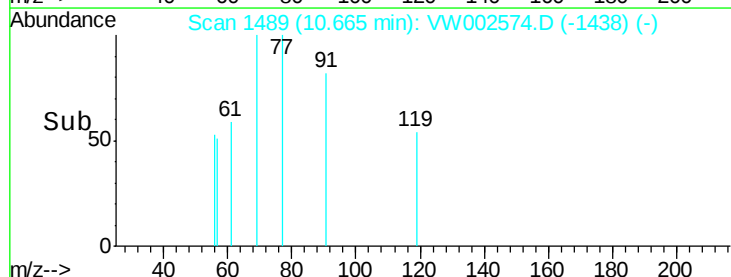
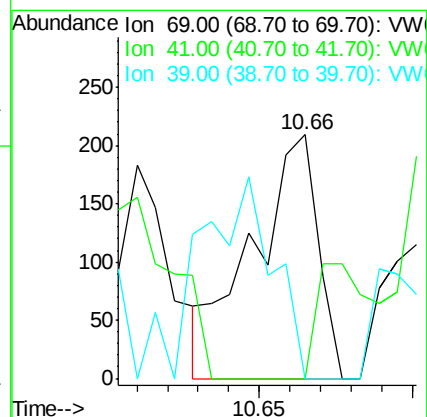
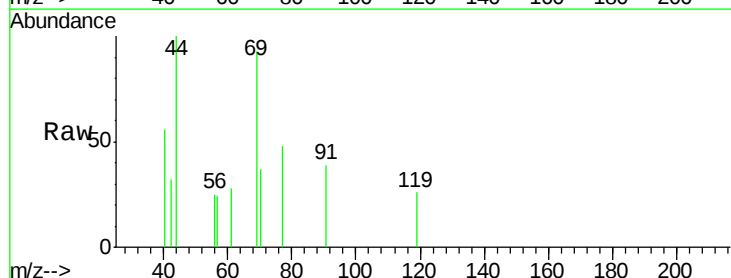
Tgt Ion: 69 Resp: 309

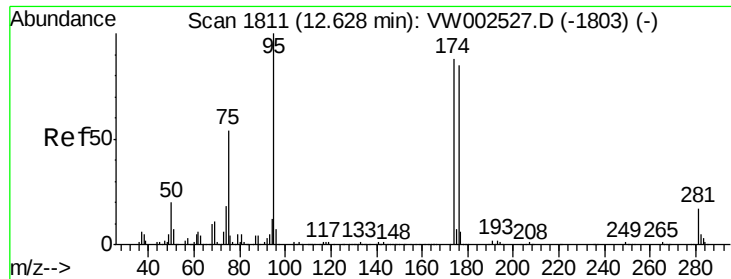
Ion Ratio Lower Upper

69 100

41 39.2 55.3 82.9#

39 0.0 33.0 49.6#

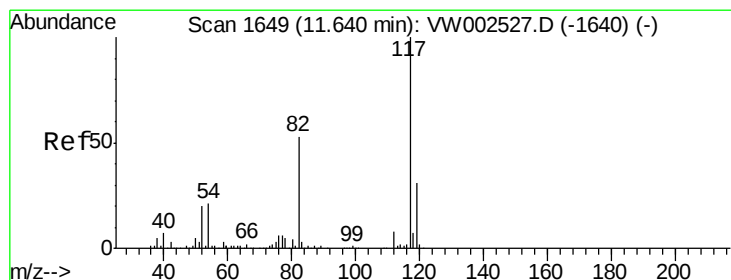
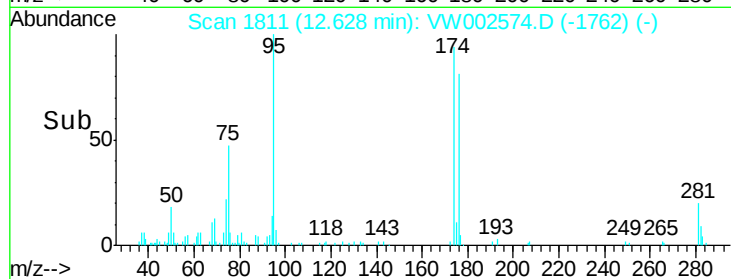
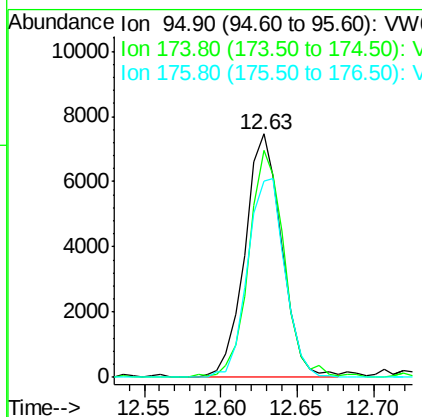
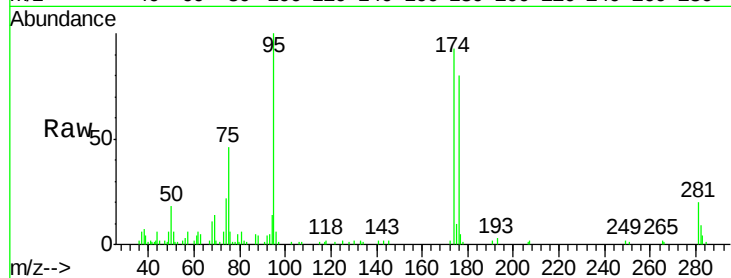




#62
4-Bromofluorobenzene
Concen: 31.96 ug/l
RT: 12.63 min Scan# 1811
Delta R.T. -0.00 min
Lab File: VW002574.D
Acq: 16 May 2018 03:03

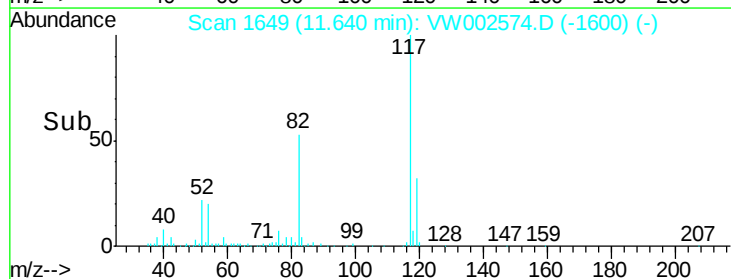
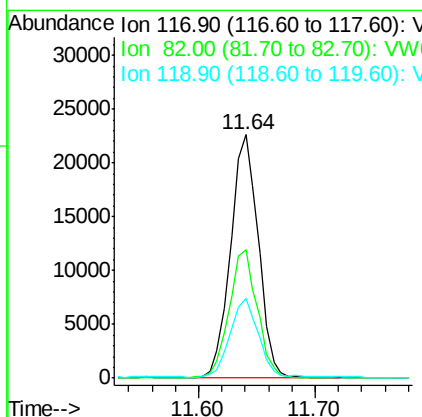
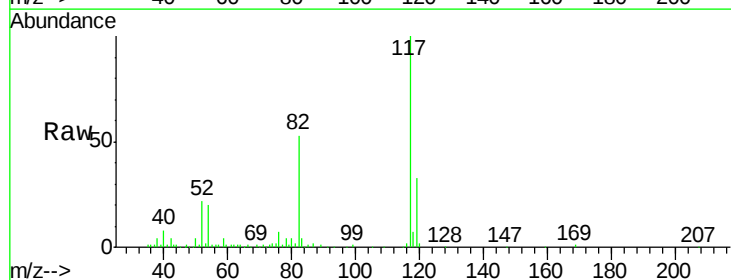
Instrument :
MSVOA_W
ClientSampleId :
SP-03

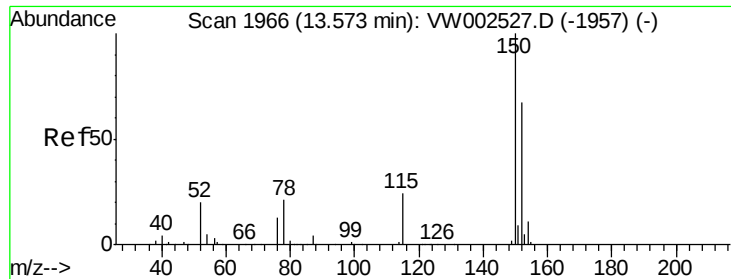
Tgt Ion: 95 Resp: 12511
Ion Ratio Lower Upper
95 100
174 89.2 0.0 176.6
176 82.6 0.0 172.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.64 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VW002574.D
Acq: 16 May 2018 03:03

Tgt Ion: 117 Resp: 37616
Ion Ratio Lower Upper
117 100
82 52.6 42.6 64.0
119 32.8 25.0 37.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.57 min Scan# 1966

Delta R.T. -0.00 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

Instrument :

MSVOA_W

ClientSampleId :

SP-03

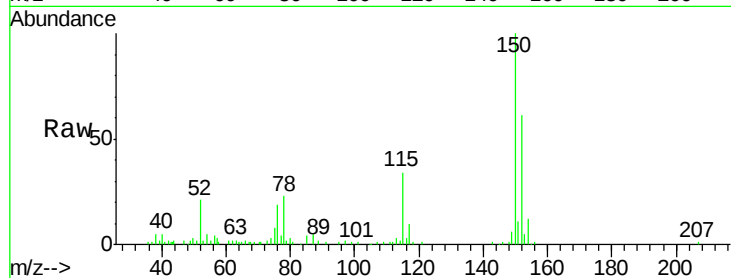
Tgt Ion:152 Resp: 13456

Ion Ratio Lower Upper

152 100

115 62.7 28.0 84.0

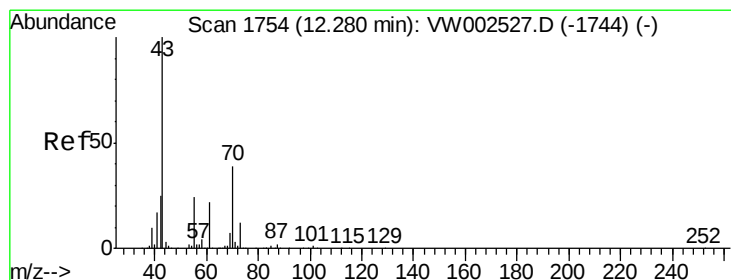
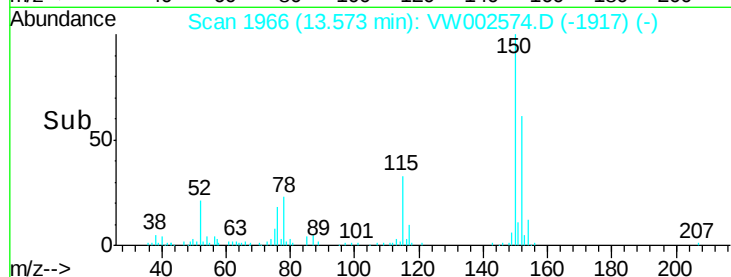
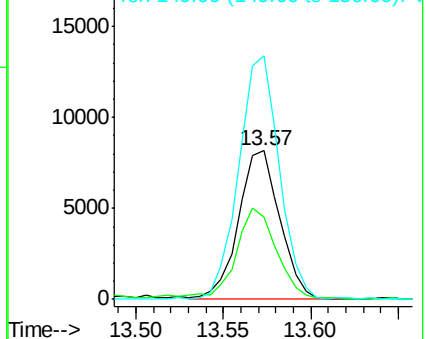
150 160.4 0.0 345.4



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



#74

N-ethyl acetate

Concen: 1.74 ug/l

RT: 12.30 min Scan# 1757

Delta R.T. 0.02 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

Tgt Ion: 43 Resp: 367

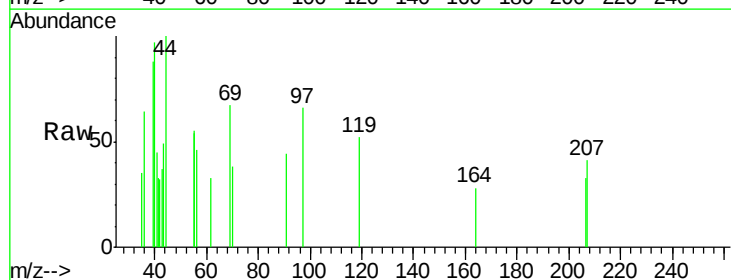
Ion Ratio Lower Upper

43 100

70 0.0 31.9 47.9#

55 100.0 19.4 29.0#

61 0.0 18.3 27.5#

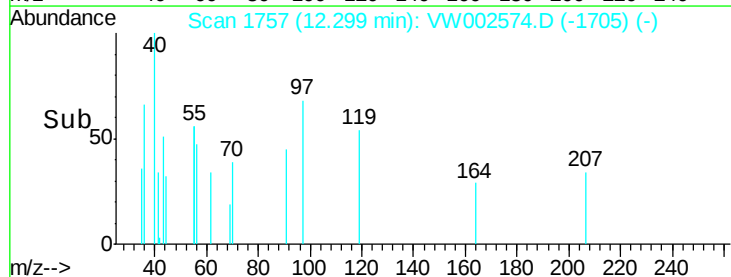
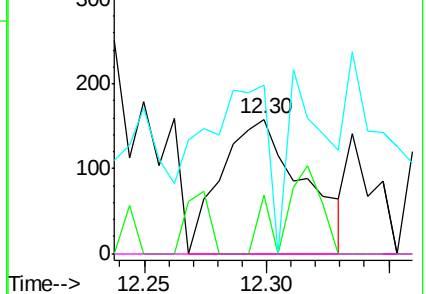


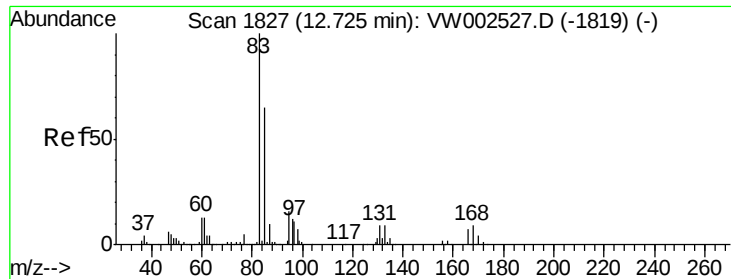
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 3.12 ug/l

RT: 12.71 min Scan# 1824

Delta R.T. -0.02 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

Instrument :

MSVOA_W

ClientSampled :

SP-03

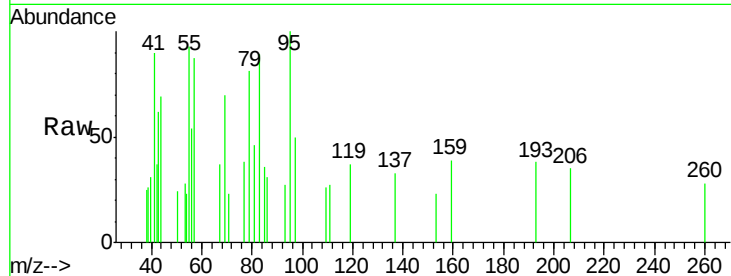
Tgt Ion: 83 Resp: 524

Ion Ratio Lower Upper

83 100

131 4.0 5.4 16.2#

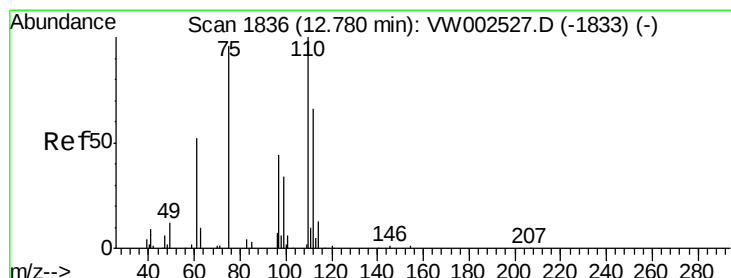
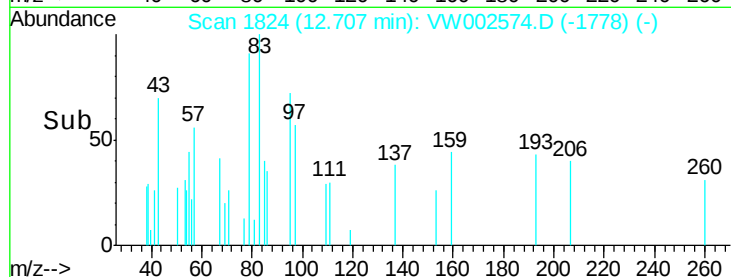
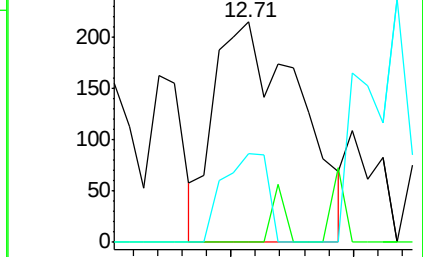
85 21.0 31.6 94.8#



Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): VW

Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 48.74 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. -0.15 min

Lab File: VW002574.D

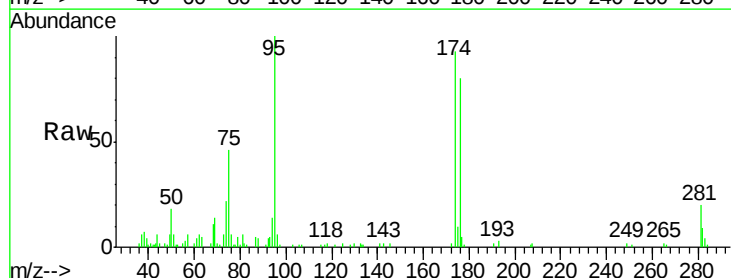
Acq: 16 May 2018 03:03

Tgt Ion: 75 Resp: 6200

Ion Ratio Lower Upper

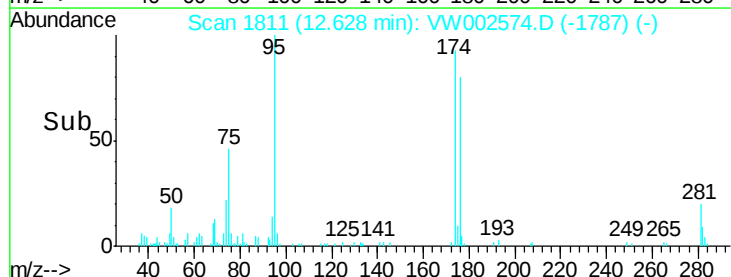
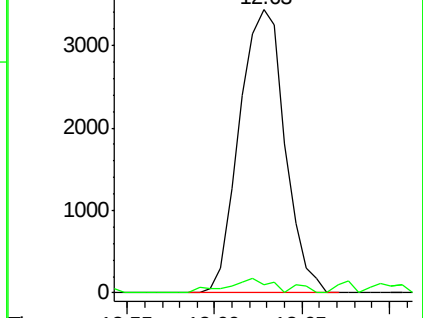
75 100

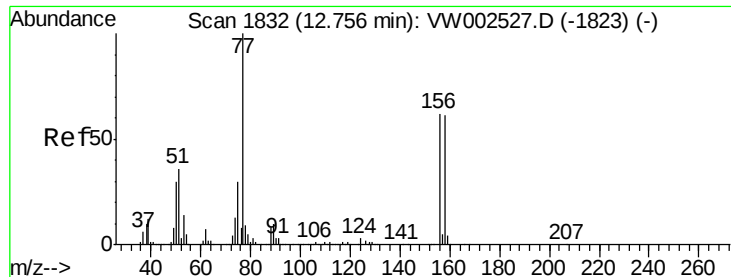
77 4.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#77

Bromobenzene

Concen: 7.86 ug/l

RT: 12.90 min Scan# 1856

Delta R.T. 0.15 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

Instrument :

MSVOA_W

ClientSampled :

SP-03

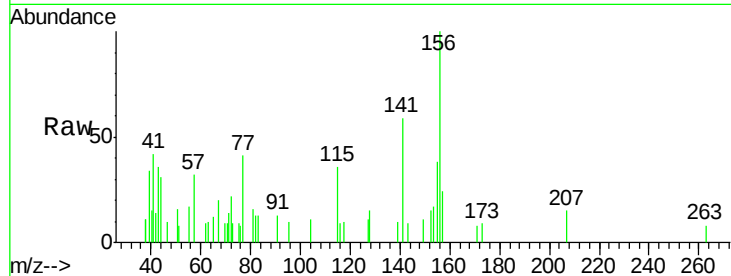
Tgt Ion:156 Resp: 1664

Ion Ratio Lower Upper

156 100

77 28.9 89.8 269.4#

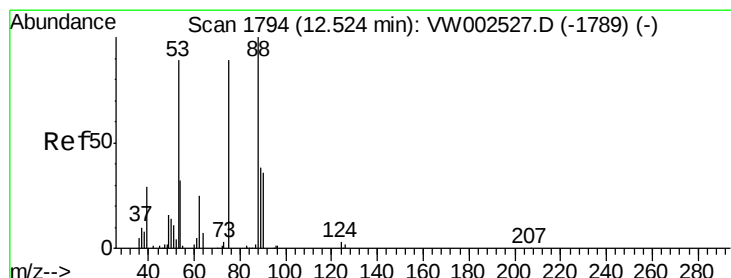
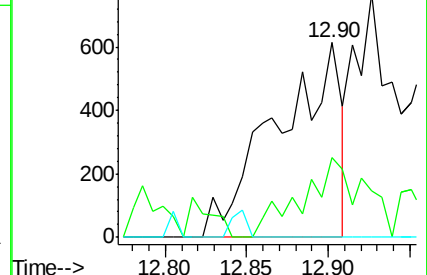
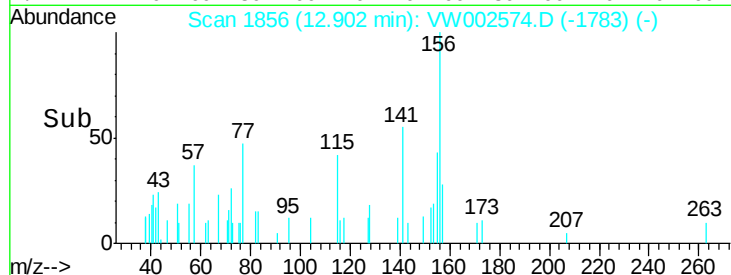
158 0.0 48.8 146.3#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 132.90 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.10 min

Lab File: VW002574.D

Acq: 16 May 2018 03:03

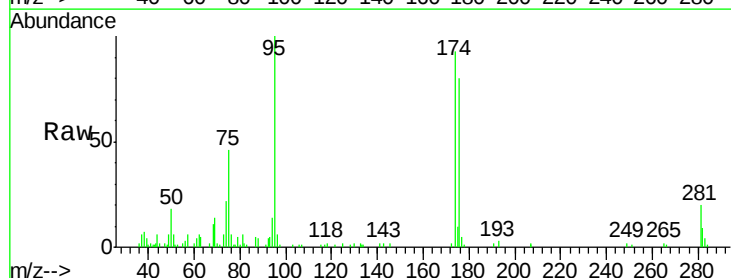
Tgt Ion: 75 Resp: 6200

Ion Ratio Lower Upper

75 100

53 1.1 82.6 124.0#

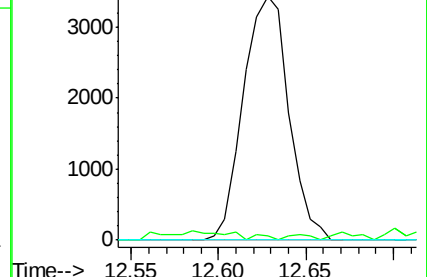
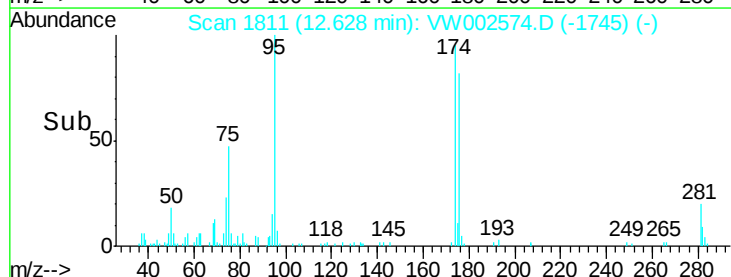
89 0.0 39.2 58.8#

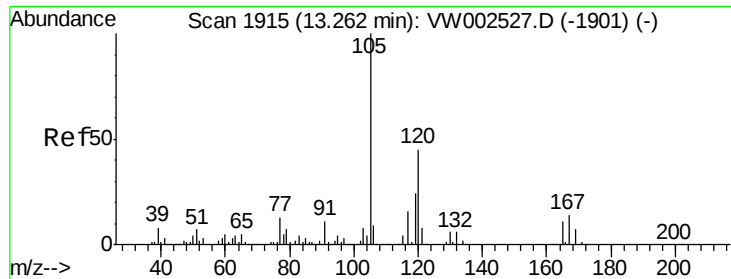


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW

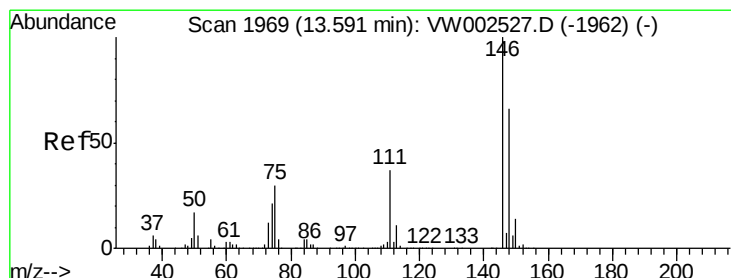
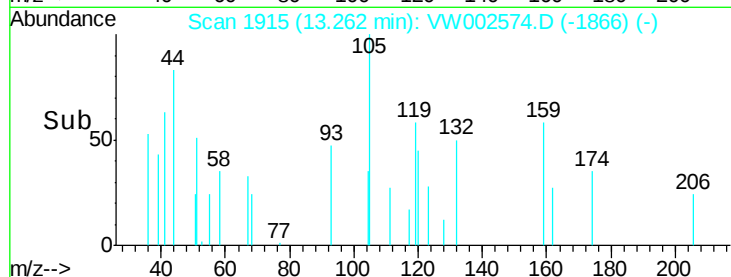
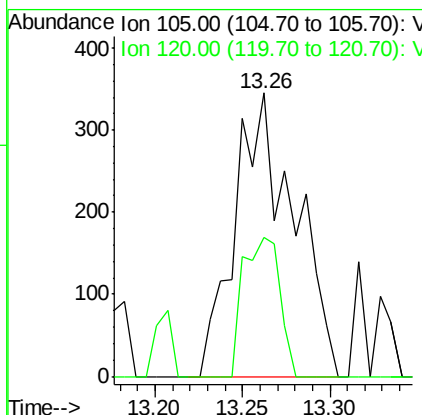
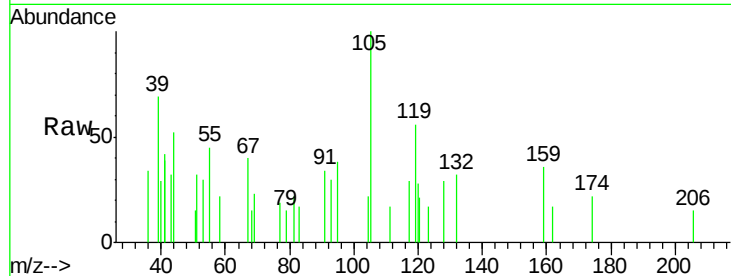




#84
 1,2,4-Trimethylbenzene
 Concen: 1.11 ug/l
 RT: 13.26 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW002574.D
 Acq: 16 May 2018 03:03

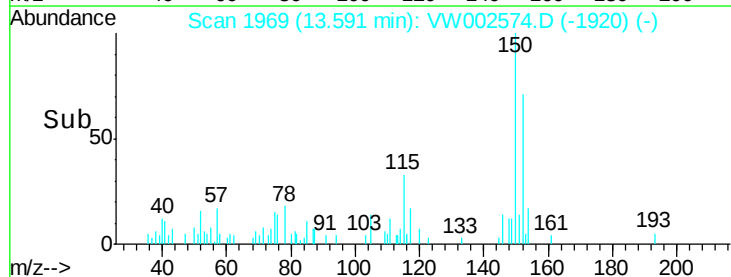
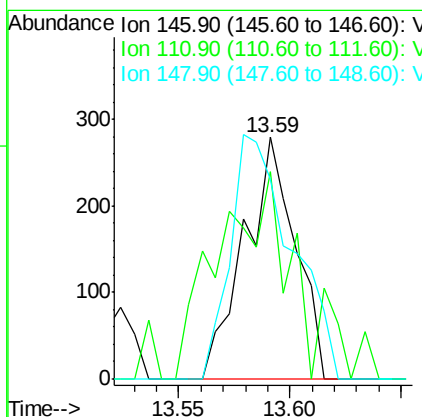
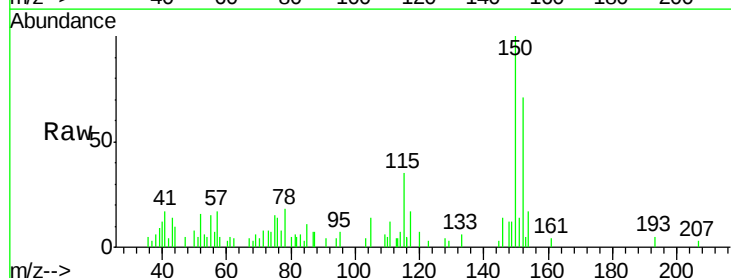
Instrument :
 MSVOA_W
 ClientSampled :
 SP-03

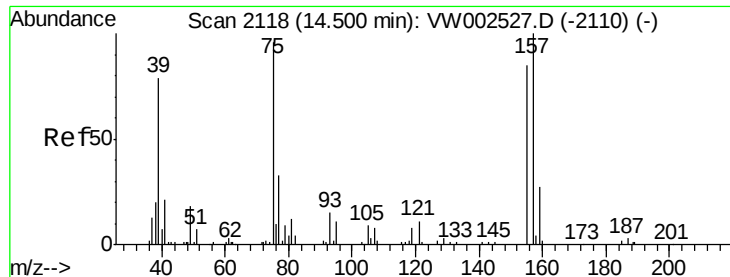
Tgt Ion:105 Resp: 819
 Ion Ratio Lower Upper
 105 100
 120 30.4 22.3 66.9



#88
 1,4-Dichlorobenzene
 Concen: 1.04 ug/l
 RT: 13.59 min Scan# 1969
 Delta R.T. -0.00 min
 Lab File: VW002574.D
 Acq: 16 May 2018 03:03

Tgt Ion:146 Resp: 441
 Ion Ratio Lower Upper
 146 100
 111 71.9 18.9 56.5#
 148 122.9 32.4 97.0#

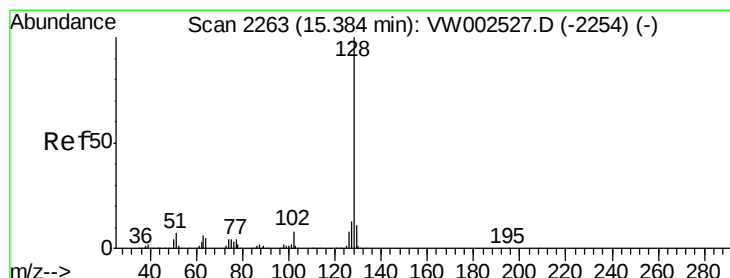
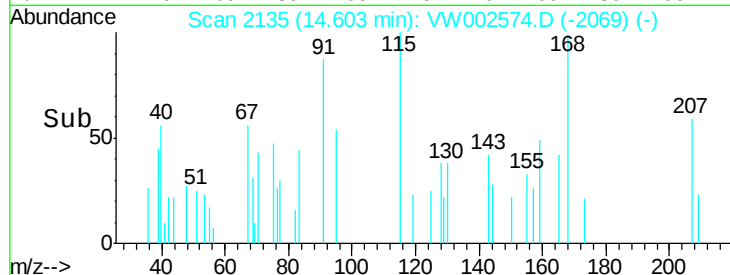
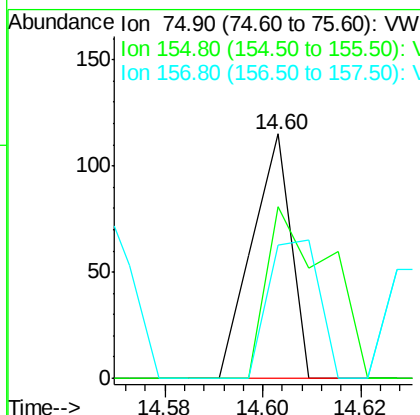
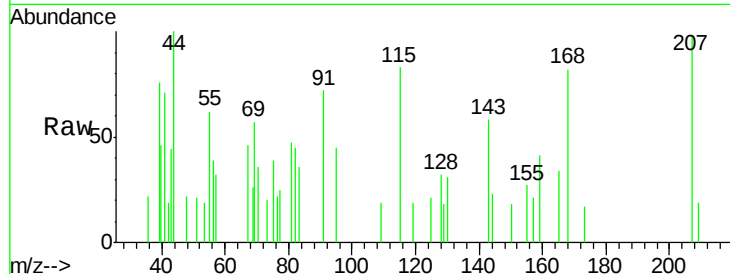




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.12 ug/l
 RT: 14.60 min Scan# 2135
 Delta R.T. 0.10 min
 Lab File: VW002574.D
 Acq: 16 May 2018 03:03

Instrument :
 MSVOA_W
 ClientSampled :
 SP-03

Tgt Ion: 75 Resp: 63
 Ion Ratio Lower Upper
 75 100
 155 112.7 42.8 128.4
 157 74.6 57.4 172.0



#95
 Naphthalene
 Concen: 2.83 ug/l
 RT: 15.39 min Scan# 2264
 Delta R.T. 0.01 min
 Lab File: VW002574.D
 Acq: 16 May 2018 03:03

Tgt Ion: 128 Resp: 1455
 Ion Ratio Lower Upper
 128 100
 127 14.8 10.6 15.8
 129 14.9 8.9 13.3#

