

Data Path : W:\HPCHEM1\MSVOA_W\DATA\VW050818\
 Data File : VW002317.D
 Acq On : 09 May 2018 02:30
 Operator : JC/SY
 Sample : J2680-05
 Misc : 5.56G/5ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 PL-02-050418-C

Quant Time: May 09 08:33:08 2018
 Quant Method : W:\HPCHEM1\MSVOA_W\METHOD\82W050818S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 08 03:57:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	39949	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	69201	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	57511	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	23488	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	27470	64.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	129.50%	
35) Dibromofluoromethane	7.88	113	21656	48.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.66%	
50) Toluene-d8	10.33	98	41270	24.40	ug/l	0.00
Spiked Amount	50.000		Recovery	=	48.80%	
62) 4-Bromofluorobenzene	12.63	95	23102	37.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.60%	

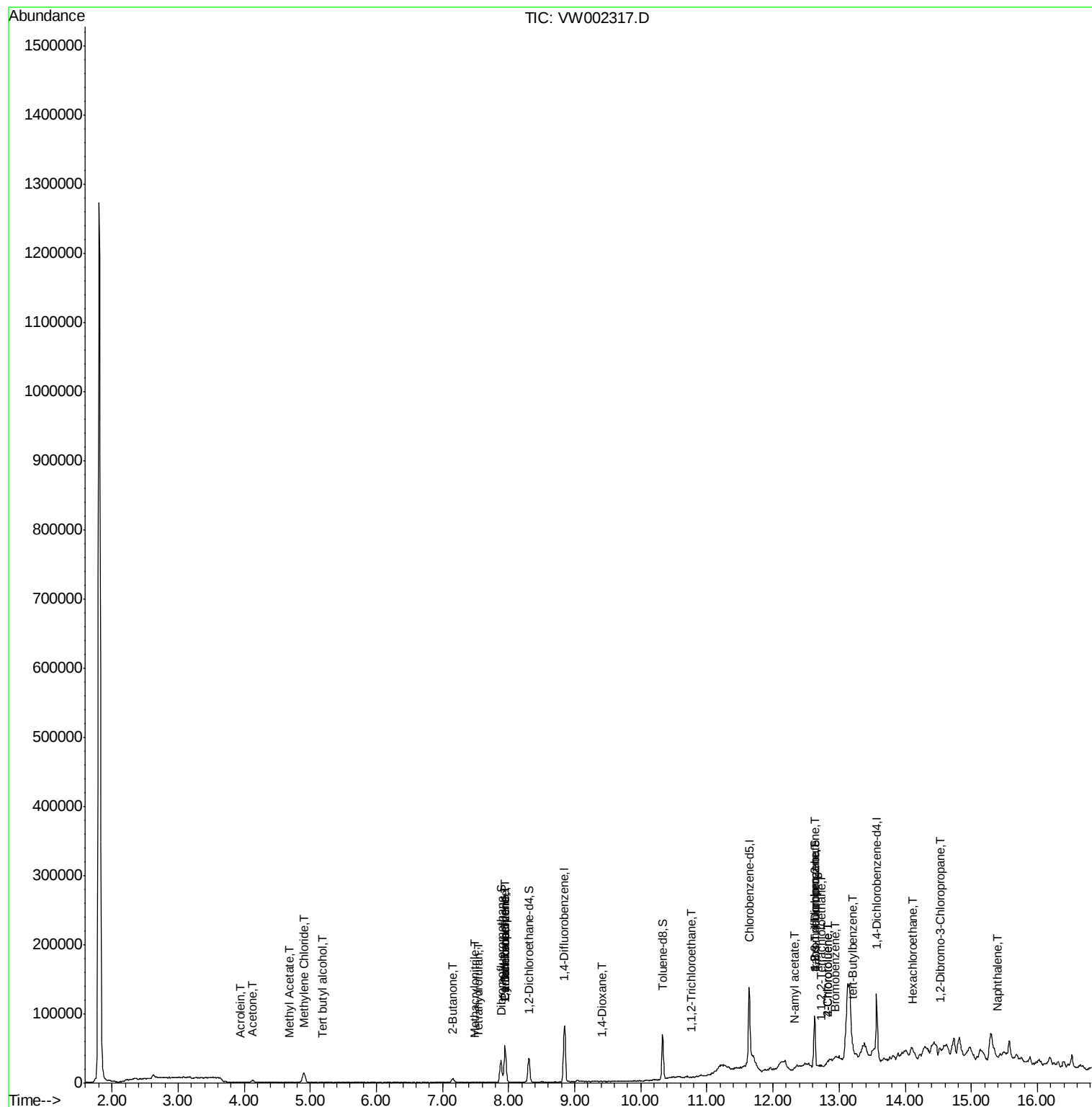
Target Compounds			Qvalue			
11) Tert butyl alcohol	5.17	59	126	4.09	ug/l #	69
13) Acrolein	3.94	56	26	1.01	ug/l #	14
16) Acetone	4.12	43	5768	69.62	ug/l	99
18) Methyl Acetate	4.68	43	1034	4.16	ug/l #	69
20) Methylene Chloride	4.91	84	10271	25.71	ug/l	94
25) 2-Butanone	7.15	43	559	4.54	ug/l #	49
29) Tetrahydrofuran	7.54	42	152	1.88	ug/l #	59
31) Cyclohexane	7.94	56	1152	1.83	ug/l #	21
36) 1,1-Dichloropropene	7.96	75	3189	5.10	ug/l #	51
38) Carbon Tetrachloride	7.95	117	3962	6.55	ug/l #	12
41) Methacrylonitrile	7.48	41	226	1.29	ug/l #	61
49) 1,4-Dioxane	9.40	88	86	21.13	ug/l #	42
55) 1,1,2-Trichloroethane	10.77	97	617	1.71	ug/l #	24
74) N-amyl acetate	12.32	43	400	1.05	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.73	83	1111	3.77	ug/l #	63
76) 1,2,3-Trichloropropane	12.63	75	11582	55.61	ug/l #	1
77) Bromobenzene	12.94	156	12334	32.07	ug/l #	1
79) 2-Chlorotoluene	12.82	91	1191	1.14	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.63	75	11582	146.47	ug/l #	10
82) 4-Chlorotoluene	12.82	91	1291	1.17	ug/l	89
83) tert-Butylbenzene	13.21	119	1419	1.28	ug/l #	64
90) Hexachloroethane	14.12	117	630	2.50	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.53	75	117	2.29	ug/l #	48
95) Naphthalene	15.39	128	1414	1.56	ug/l #	83

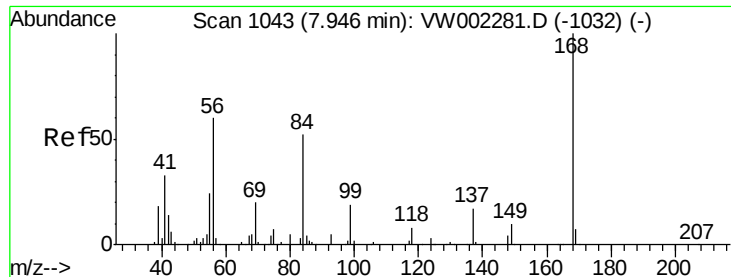
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 08 03:57:58 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.01 min

Lab File: VW002317.D

Acq: 09 May 2018 02:30

Instrument :

MSVOA_W

ClientSampleId :

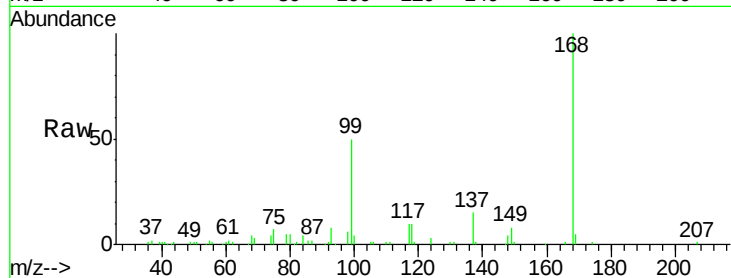
PL-02-050418-C

Tgt Ion:168 Resp: 39949

Ion Ratio Lower Upper

168 100

99 50.3 43.7 65.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

20000

15000

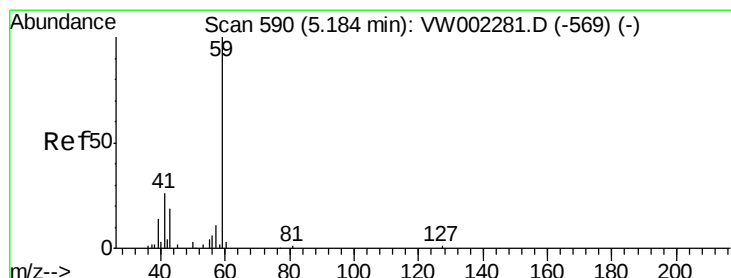
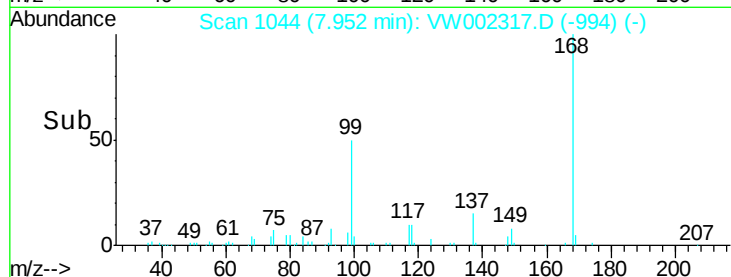
10000

5000

0

7.85 7.90 7.95 8.00 8.05

Time-->



#11

Tert butyl alcohol

Concen: 4.09 ug/l

RT: 5.17 min Scan# 588

Delta R.T. -0.01 min

Lab File: VW002317.D

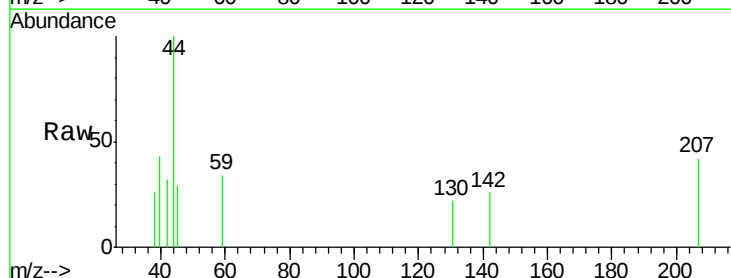
Acq: 09 May 2018 02:30

Tgt Ion: 59 Resp: 126

Ion Ratio Lower Upper

59 100

57 15.1 3.9 5.9#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW

5.17

100

80

60

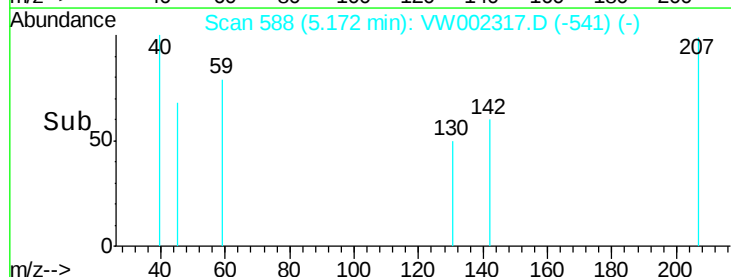
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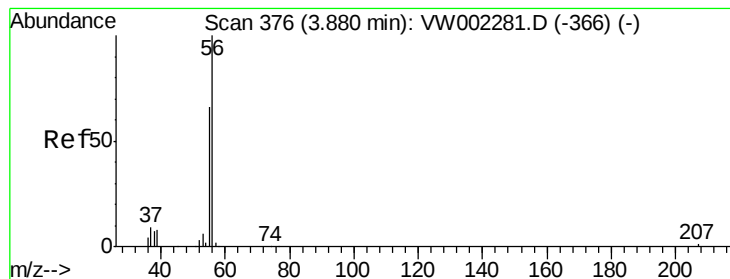
20

0

5.15 5.20

Time-->





#13

Acrolein

Concen: 1.01 ug/l

RT: 3.94 min Scan# 386

Delta R.T. 0.06 min

Lab File: VW002317.D

Acq: 09 May 2018 02:30

Instrument :

MSVOA_W

ClientSampleId :

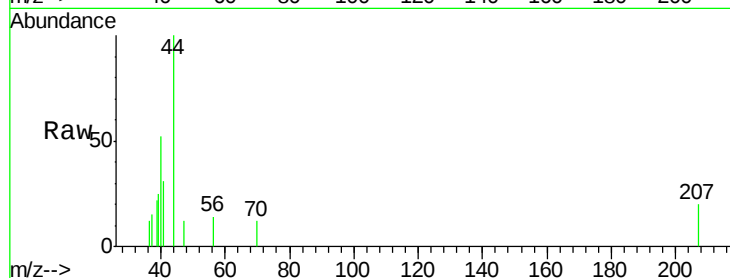
PL-02-050418-C

Tgt Ion: 56 Resp: 26

Ion Ratio Lower Upper

56 100

55 0.0 57.3 85.9#

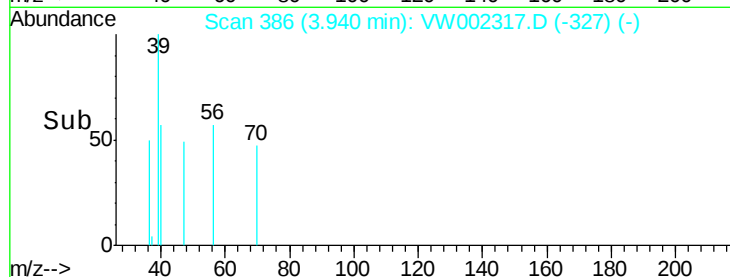


Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.94

Time-->



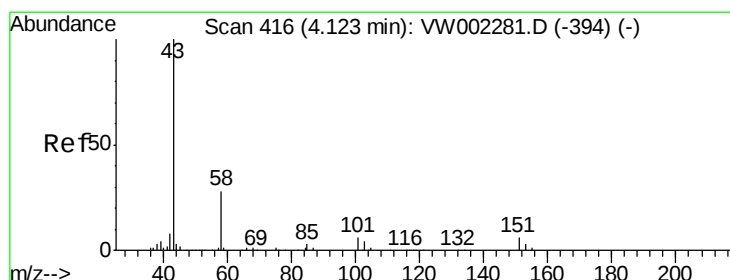
Abundance

Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW

3.94

Time-->



#16

Acetone

Concen: 69.62 ug/l

RT: 4.12 min Scan# 416

Delta R.T. -0.00 min

Lab File: VW002317.D

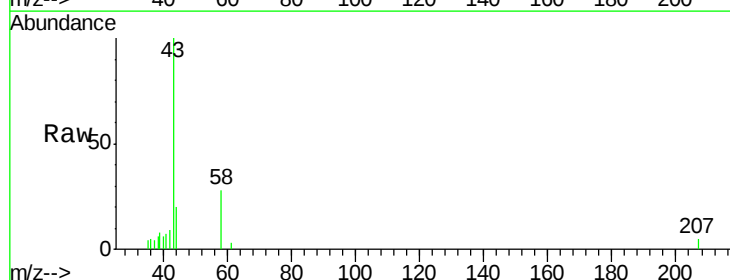
Acq: 09 May 2018 02:30

Tgt Ion: 43 Resp: 5768

Ion Ratio Lower Upper

43 100

58 27.5 22.2 33.4

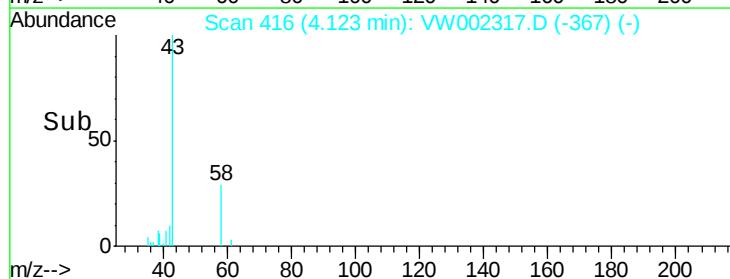


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

Time-->



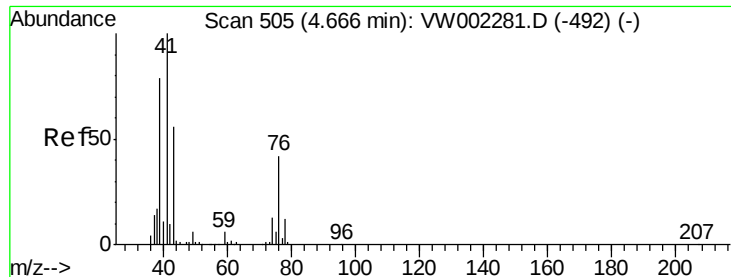
Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

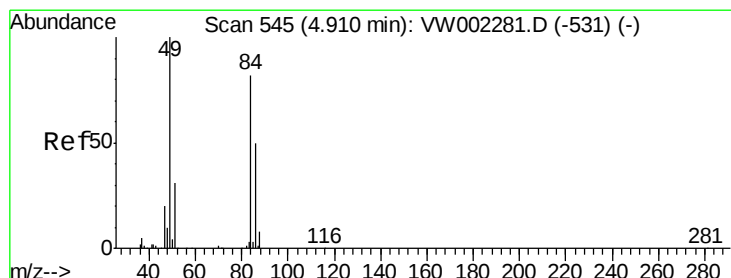
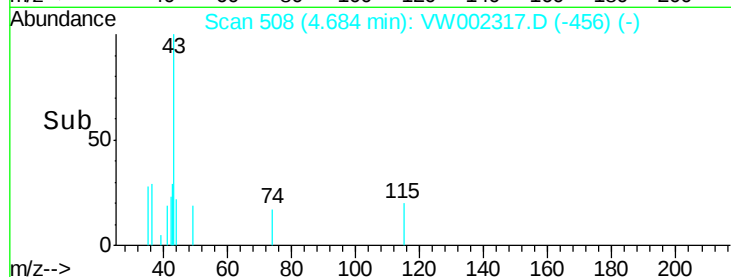
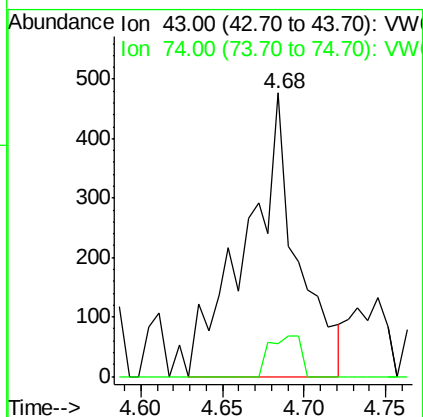
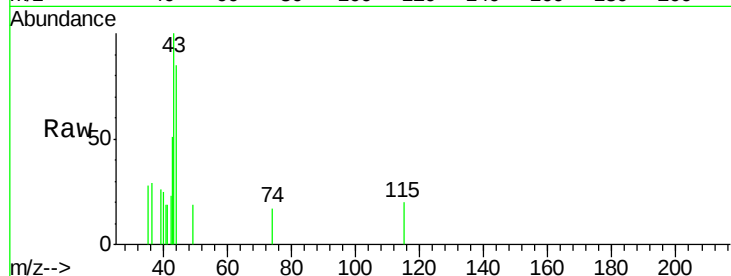
Time-->



#18
Methyl Acetate
Concen: 4.16 ug/l
RT: 4.68 min Scan# 508
Delta R.T. 0.02 min
Lab File: VW002317.D
Acq: 09 May 2018 02:30

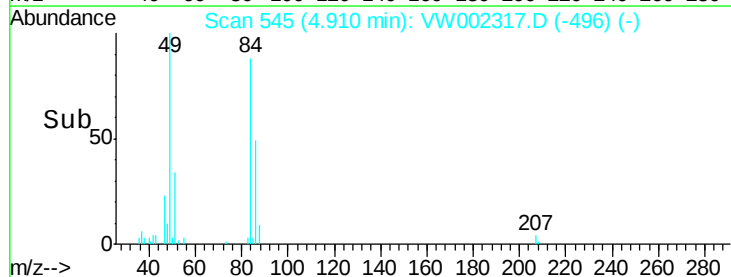
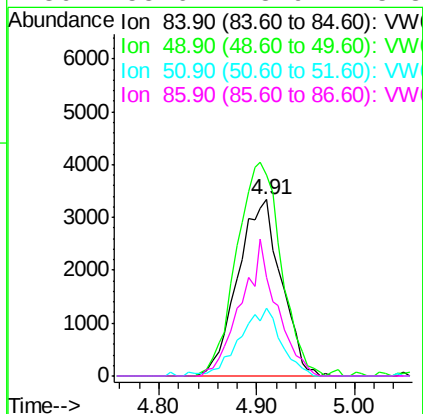
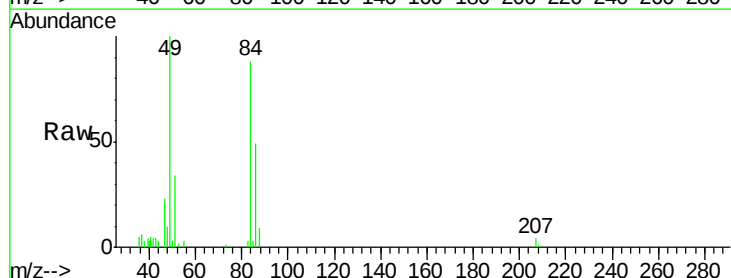
Instrument :
MSVOA_W
ClientSampleId :
PL-02-050418-C

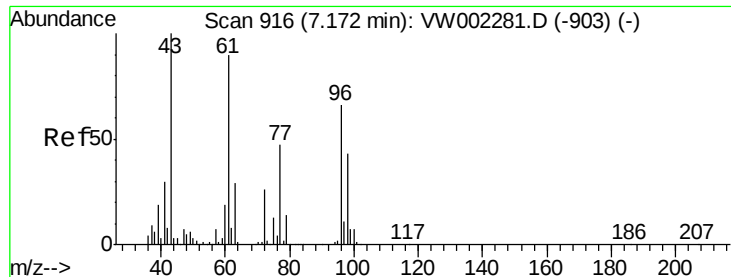
Tgt Ion: 43 Resp: 1034
Ion Ratio Lower Upper
43 100
74 8.7 19.4 29.2#



#20
Methylene Chloride
Concen: 25.71 ug/l
RT: 4.91 min Scan# 545
Delta R.T. -0.00 min
Lab File: VW002317.D
Acq: 09 May 2018 02:30

Tgt Ion: 84 Resp: 10271
Ion Ratio Lower Upper
84 100
49 113.7 97.7 146.5
51 38.4 30.2 45.4
86 55.6 48.9 73.3





#25

2-Butanone

Concen: 4.54 ug/l

RT: 7.15 min Scan# 912

Delta R.T. -0.02 min

Lab File: VW002317.D

Acq: 09 May 2018 02:30

Instrument :

MSVOA_W

ClientSampleId :

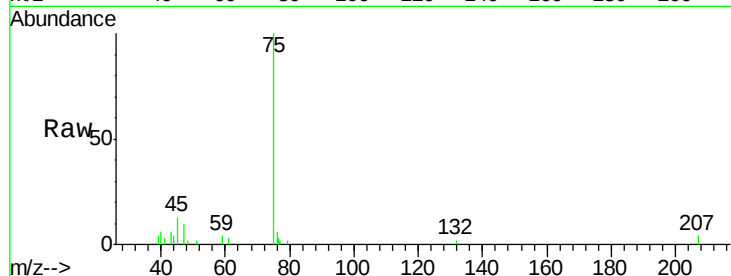
PL-02-050418-C

Tgt Ion: 43 Resp: 559

Ion Ratio Lower Upper

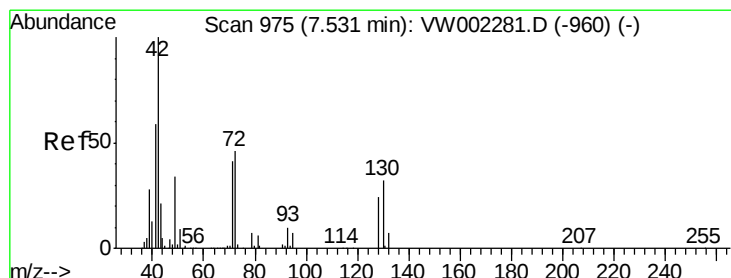
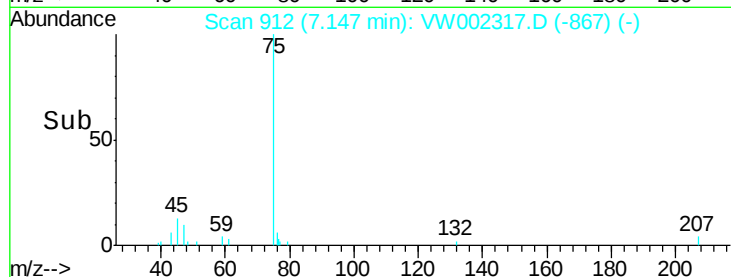
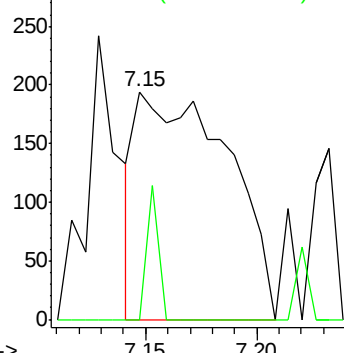
43 100

72 0.0 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 72.00 (71.70 to 72.70): VW



#29

Tetrahydrofuran

Concen: 1.88 ug/l

RT: 7.54 min Scan# 976

Delta R.T. 0.01 min

Lab File: VW002317.D

Acq: 09 May 2018 02:30

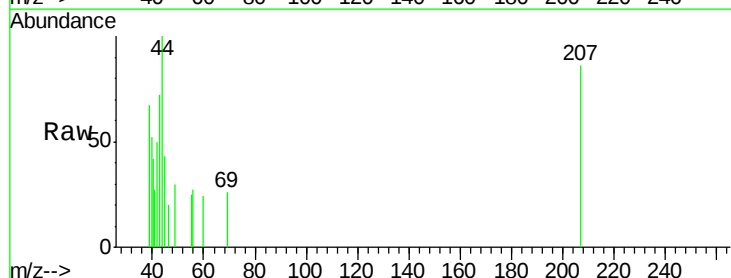
Tgt Ion: 42 Resp: 152

Ion Ratio Lower Upper

42 100

72 31.6 34.5 51.7#

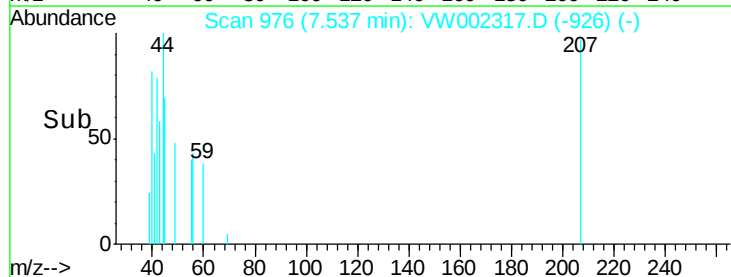
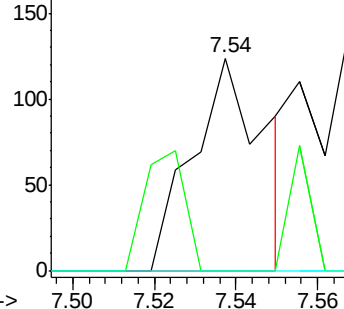
71 0.0 33.0 49.6#

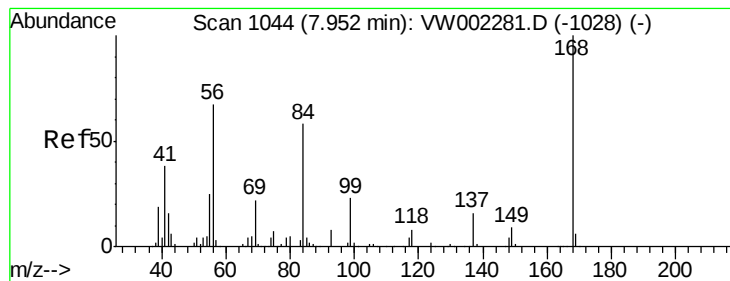


Abundance Ion 42.00 (41.70 to 42.70): VW

Ion 72.00 (71.70 to 72.70): VW

Ion 71.00 (70.70 to 71.70): VW





#31

Cyclohexane

Concen: 1.83 ug/l

RT: 7.94 min Scan# 1042

Delta R.T. -0.01 min

Lab File: VW002317.D

Acq: 09 May 2018 02:30

Instrument :

MSVOA_W

ClientSampleId :

PL-02-050418-C

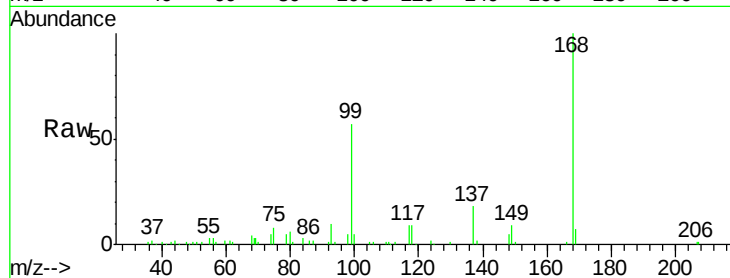
Tgt Ion: 56 Resp: 1152

Ion Ratio Lower Upper

56 100

69 184.0 26.2 39.4#

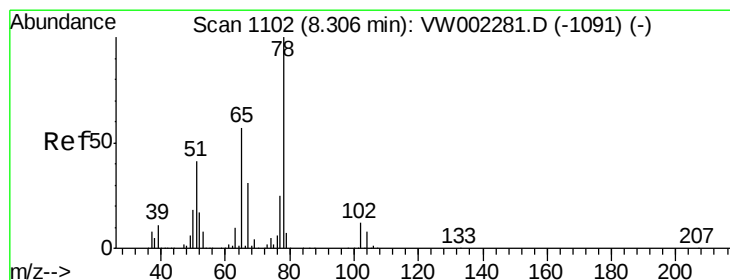
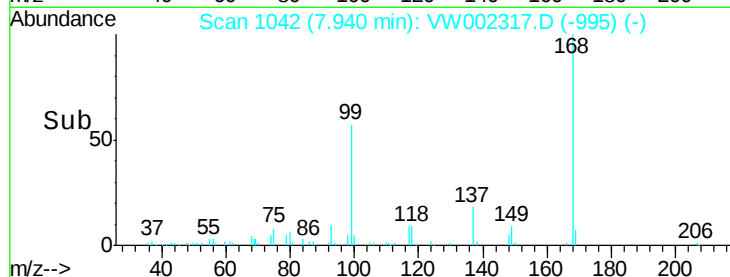
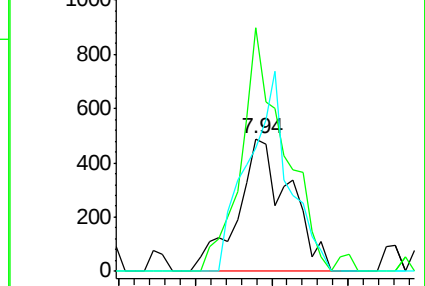
84 92.8 69.2 103.8



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 69.00 (68.70 to 69.70): VW

Ion 84.00 (83.70 to 84.70): VW



#33

1,2-Dichloroethane-d4

Concen: 64.75 ug/l

RT: 8.31 min Scan# 1103

Delta R.T. 0.01 min

Lab File: VW002317.D

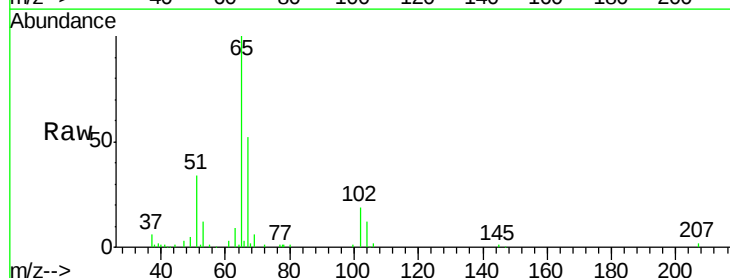
Acq: 09 May 2018 02:30

Tgt Ion: 65 Resp: 27470

Ion Ratio Lower Upper

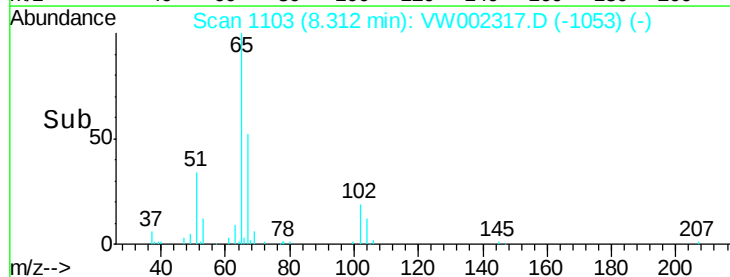
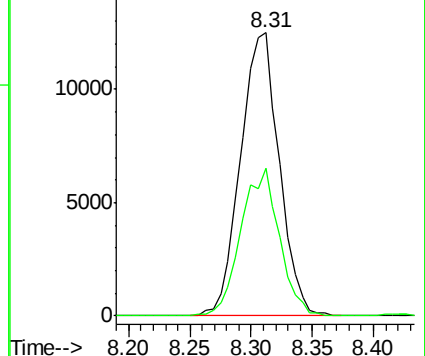
65 100

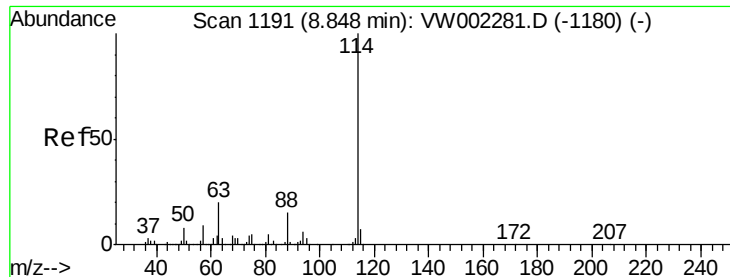
67 51.7 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VW

Ion 66.90 (66.60 to 67.60): VW

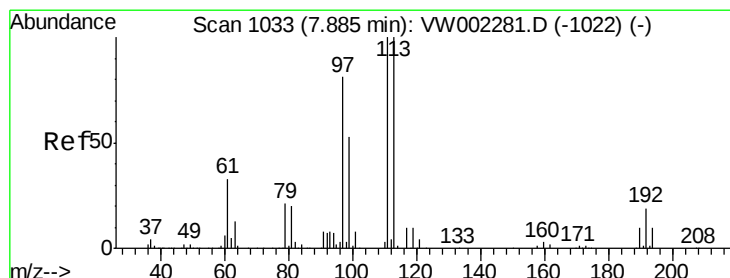
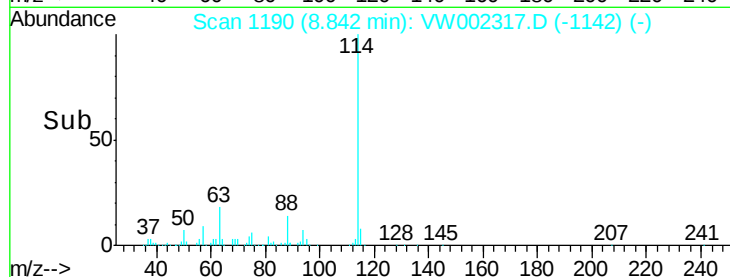
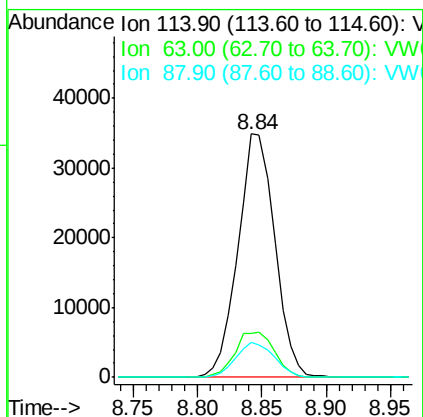
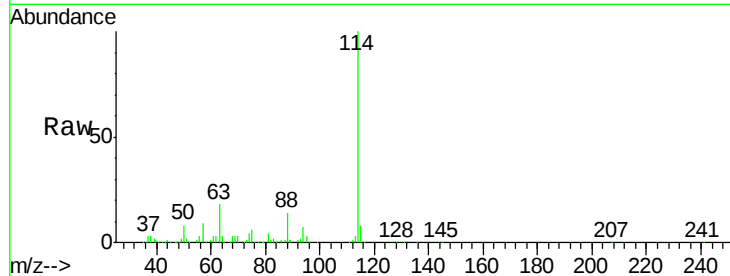




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.84 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: VW002317.D
 Acq: 09 May 2018 02:30

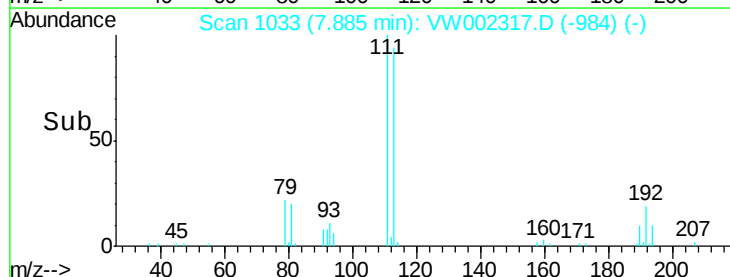
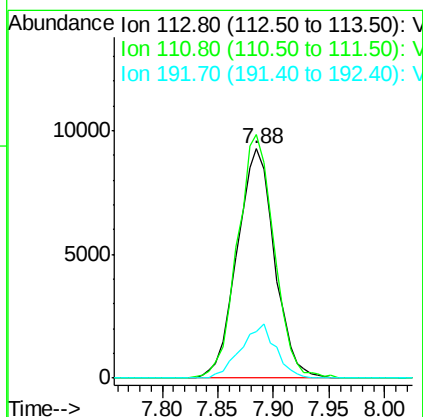
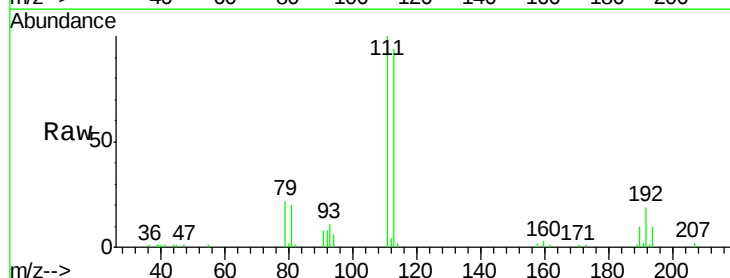
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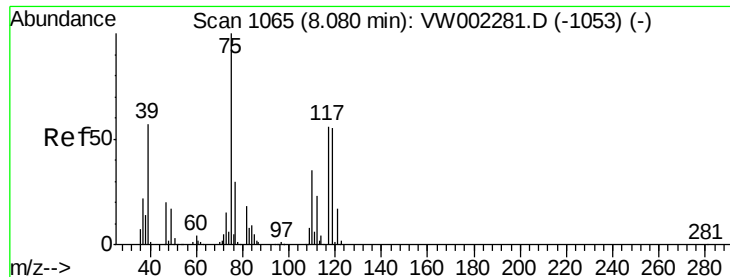
Tgt Ion:114 Resp: 69201
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 39.0
 88 14.2 0.0 29.6



#35
 Dibromofluoromethane
 Concen: 48.83 ug/l
 RT: 7.88 min Scan# 1033
 Delta R.T. -0.00 min
 Lab File: VW002317.D
 Acq: 09 May 2018 02:30

Tgt Ion:113 Resp: 21656
 Ion Ratio Lower Upper
 113 100
 111 104.4 81.5 122.3
 192 22.0 16.4 24.6

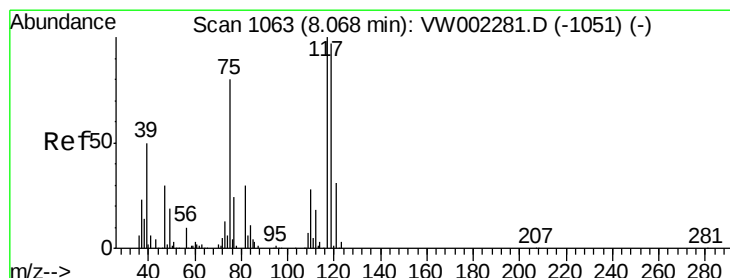
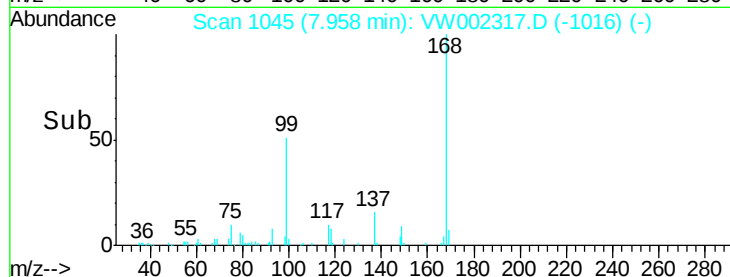
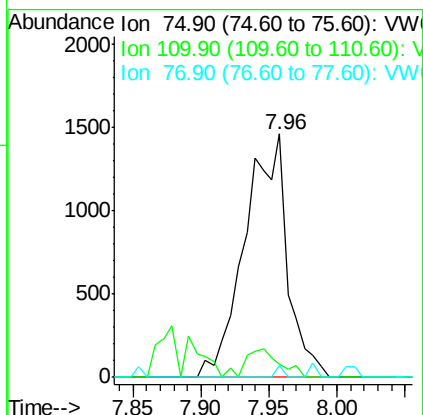
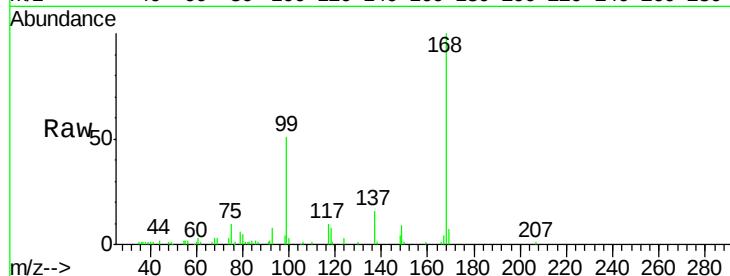




#36
 1,1-Dichloropropene
 Concen: 5.10 ug/l
 RT: 7.96 min Scan# 1045
 Delta R.T. -0.12 min
 Lab File: VW002317.D
 Acq: 09 May 2018 02:30

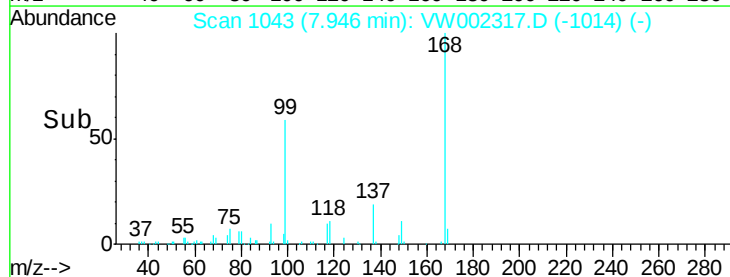
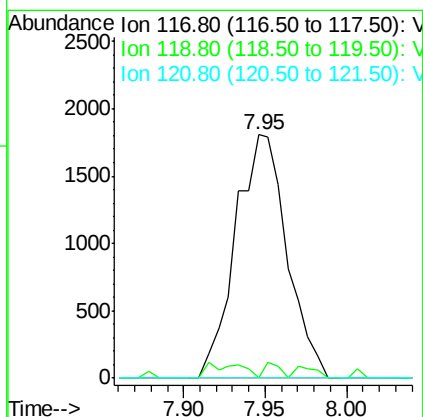
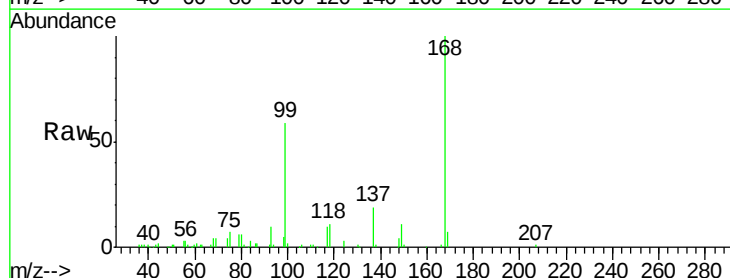
Instrument :
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 ClientSampleId :
 PL-02-050418-C

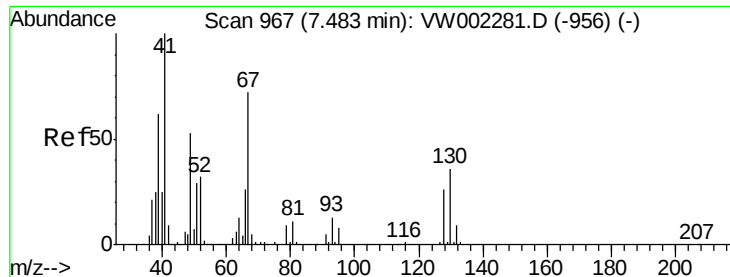
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	18.1	54.1#
77	0.8	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.55 ug/l
 RT: 7.95 min Scan# 1043
 Delta R.T. -0.12 min
 Lab File: VW002317.D
 Acq: 09 May 2018 02:30

Tgt Ion	Ratio	Lower	Upper
117	100		
119	0.0	77.5	116.3#
121	0.0	24.4	36.6#

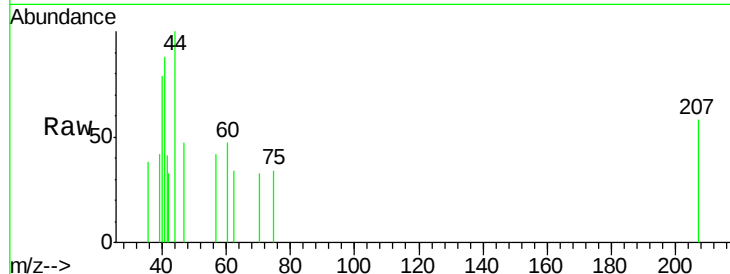




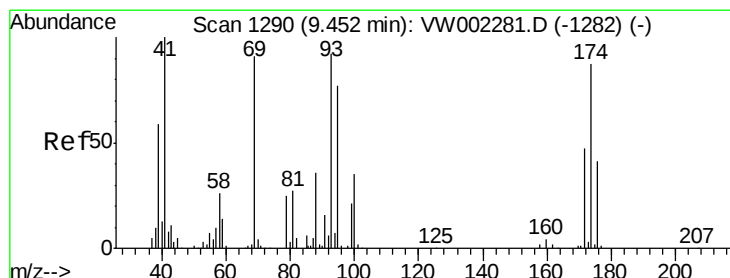
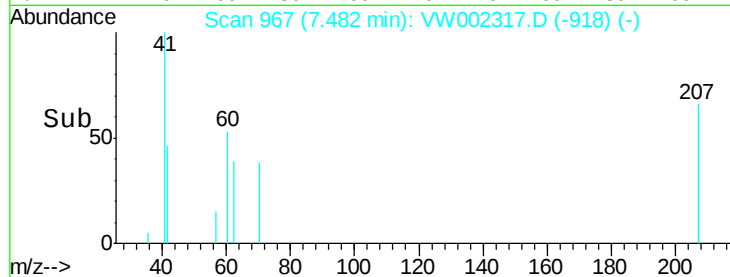
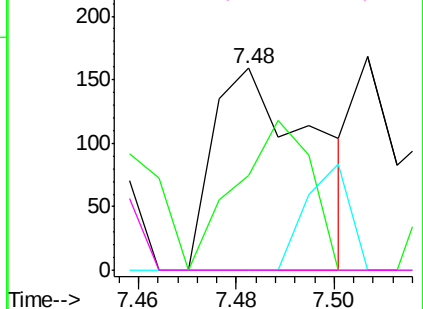
#41
Methacrylonitrile
Concen: 1.29 ug/l
RT: 7.48 min Scan# 967
Delta R.T. -0.00 min
Lab File: VW002317.D
Acq: 09 May 2018 02:30

Instrument :
MSVOA_W
ClientSampled :
PL-02-050418-C

Tgt Ion: 41 Resp: 226
Ion Ratio Lower Upper
41 100
39 54.9 40.2 60.4
67 23.5 54.7 82.1#
52 0.0 23.6 35.4#

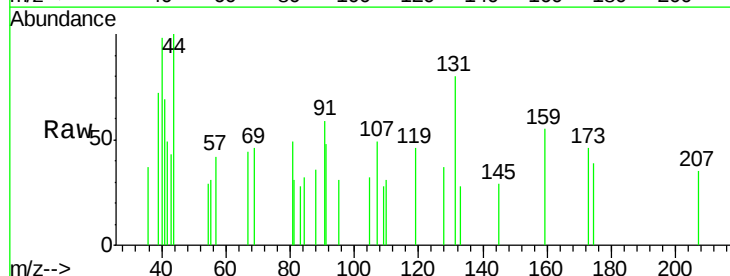


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

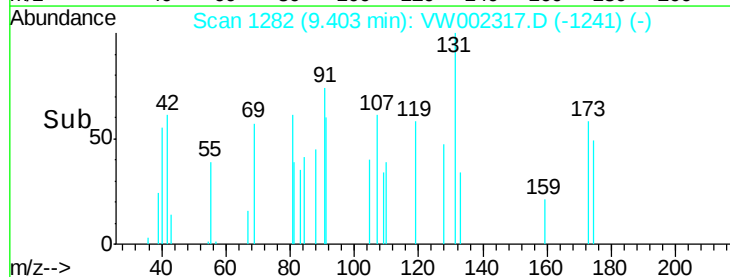
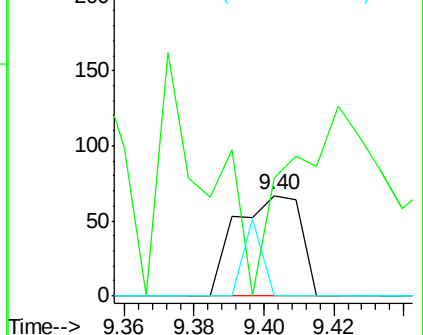


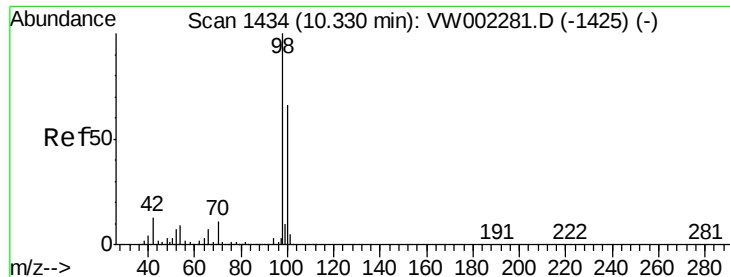
#49
1,4-Dioxane
Concen: 21.13 ug/l
RT: 9.40 min Scan# 1282
Delta R.T. -0.05 min
Lab File: VW002317.D
Acq: 09 May 2018 02:30

Tgt Ion: 88 Resp: 86
Ion Ratio Lower Upper
88 100
43 0.0 26.3 39.5#
58 22.1 56.0 84.0#



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: 24.40 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW002317.D

Acq: 09 May 2018 02:30

Instrument :

MSVOA_W

ClientSampleId :

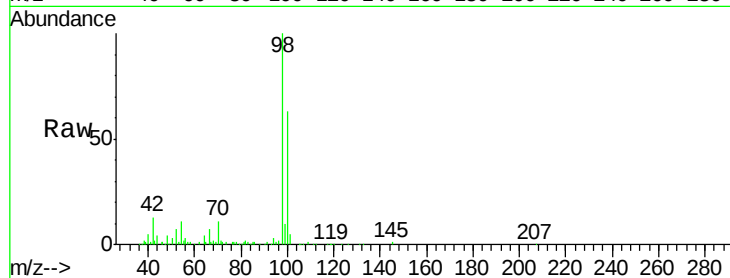
PL-02-050418-C

Tgt Ion: 98 Resp: 41270

Ion Ratio Lower Upper

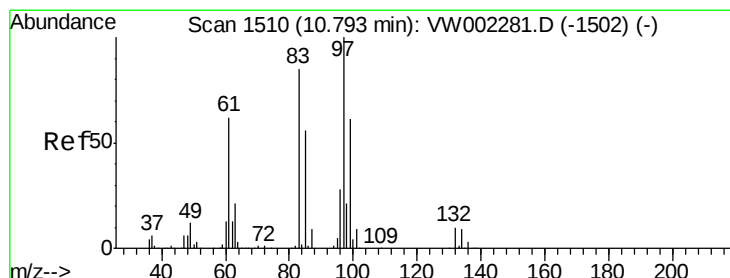
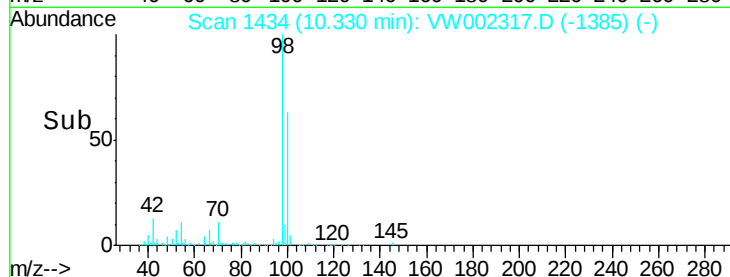
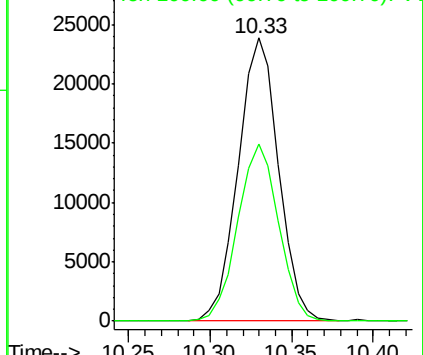
98 100

100 63.0 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#55

1,1,2-Trichloroethane

Concen: 1.71 ug/l

RT: 10.77 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VW002317.D

Acq: 09 May 2018 02:30

Tgt Ion: 97 Resp: 617

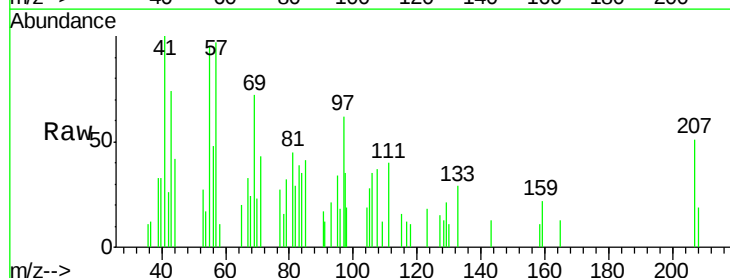
Ion Ratio Lower Upper

97 100

83 19.2 68.4 102.6#

85 0.0 44.6 67.0#

99 0.0 48.8 73.2#

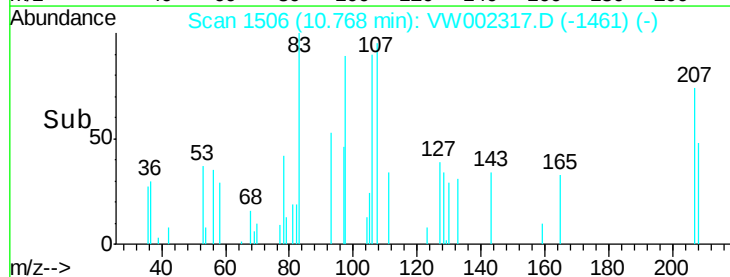
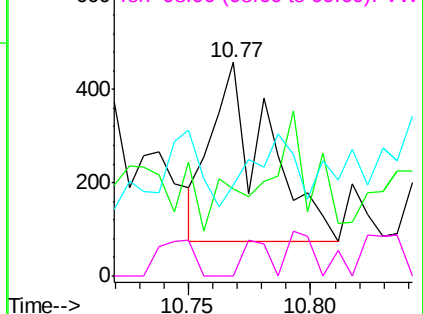


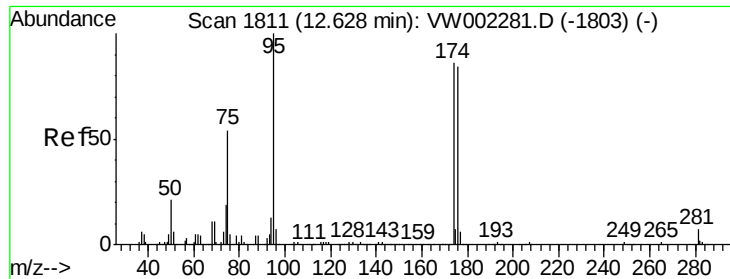
Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW

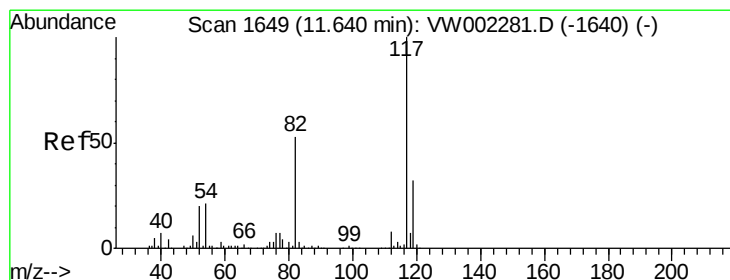
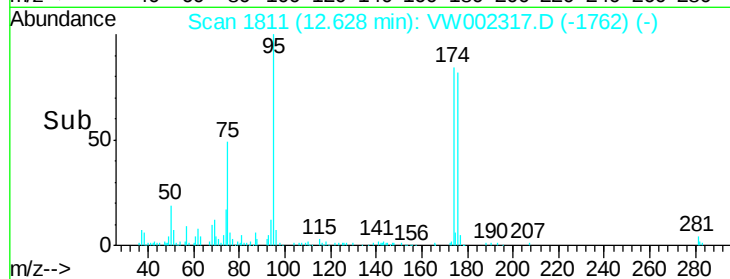
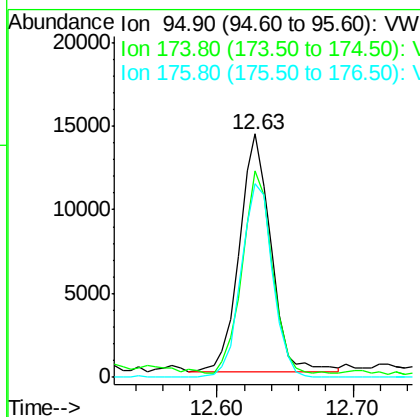
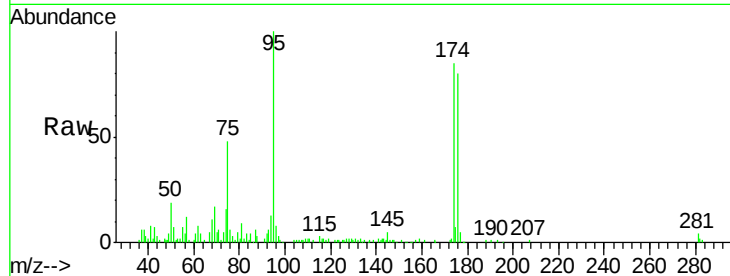




#62
4-Bromofluorobenzene
Concen: 37.80 ug/l
RT: 12.63 min Scan# 1811
Delta R.T. -0.00 min
Lab File: VW002317.D
Acq: 09 May 2018 02:30

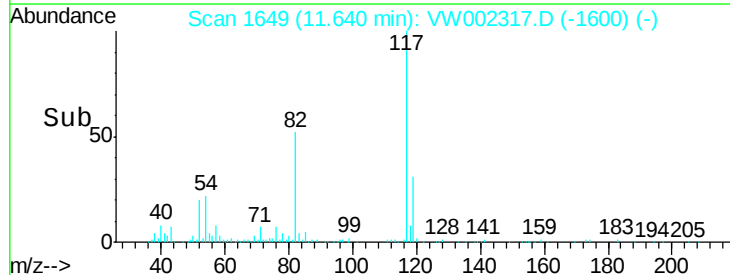
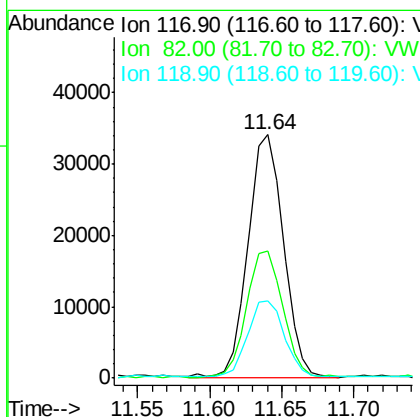
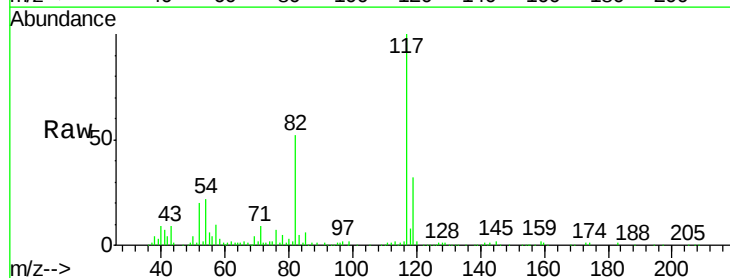
Instrument :
MSVOA_W
ClientSampleId :
PL-02-050418-C

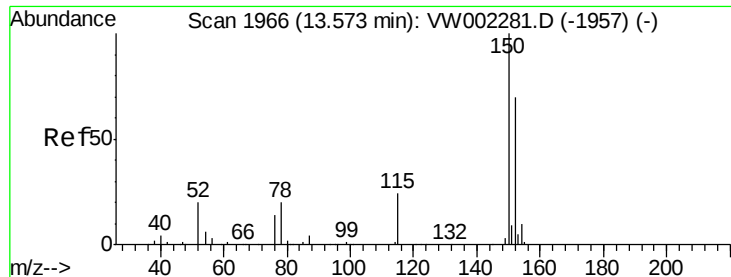
Tgt Ion: 95 Resp: 23102
Ion Ratio Lower Upper
95 100
174 81.0 0.0 176.8
176 80.8 0.0 170.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.64 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VW002317.D
Acq: 09 May 2018 02:30

Tgt Ion: 117 Resp: 57511
Ion Ratio Lower Upper
117 100
82 52.1 42.6 63.8
119 31.2 25.2 37.8

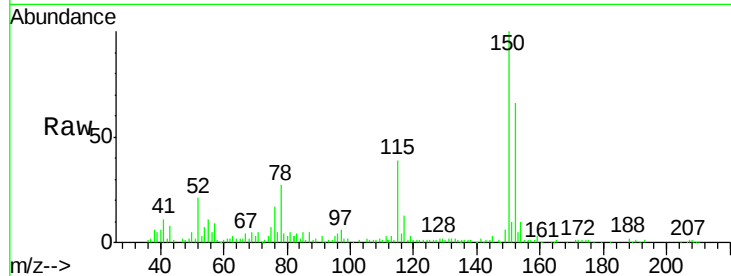




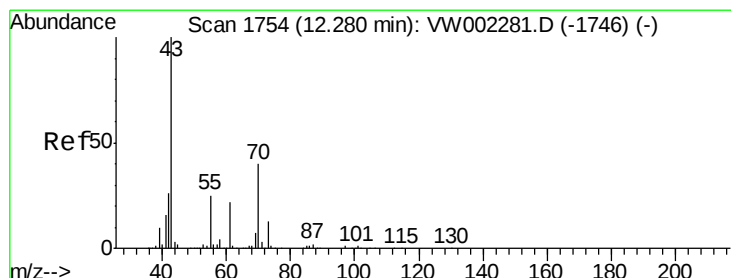
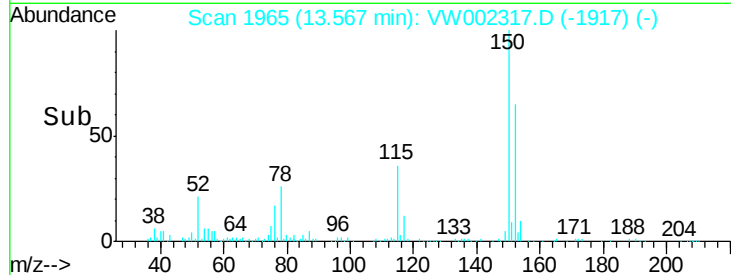
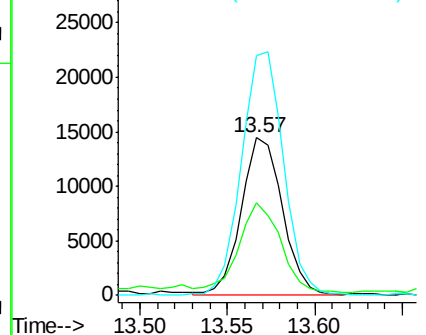
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.00 ug/l
 RT: 13.57 min Scan# 1965
 Delta R.T. -0.01 min
 Lab File: VW002317.D
 Acq: 09 May 2018 02:30

Instrument :
 MSVOA_W
 ClientSampleId :
 PL-02-050418-C

Tgt Ion:152 Resp: 23488
 Ion Ratio Lower Upper
 152 100
 115 57.3 28.5 85.5
 150 159.1 0.0 342.6

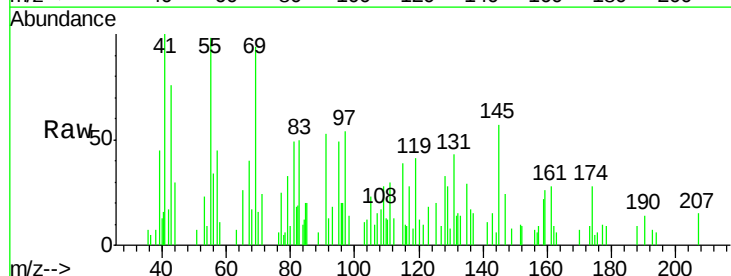


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

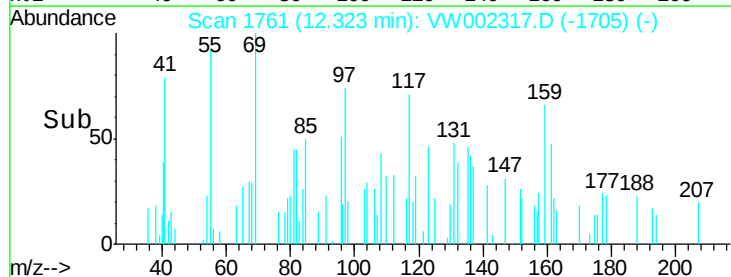
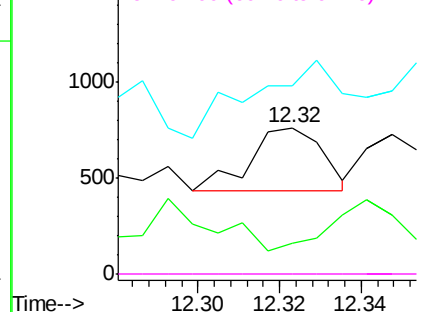


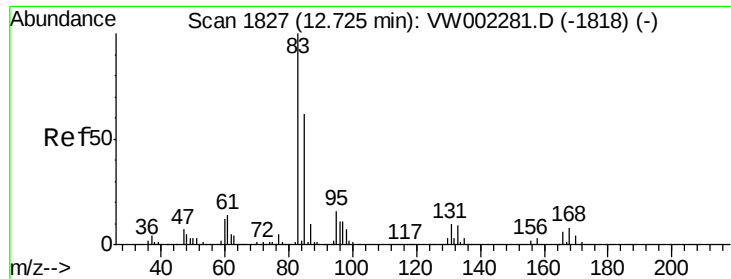
#74
 N-ethyl acetate
 Concen: 1.05 ug/l
 RT: 12.32 min Scan# 1761
 Delta R.T. 0.04 min
 Lab File: VW002317.D
 Acq: 09 May 2018 02:30

Tgt Ion: 43 Resp: 400
 Ion Ratio Lower Upper
 43 100
 70 0.0 31.9 47.9#
 55 165.3 19.9 29.9#
 61 0.0 18.2 27.2#



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

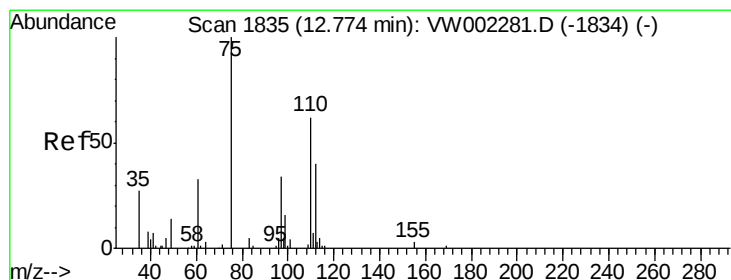
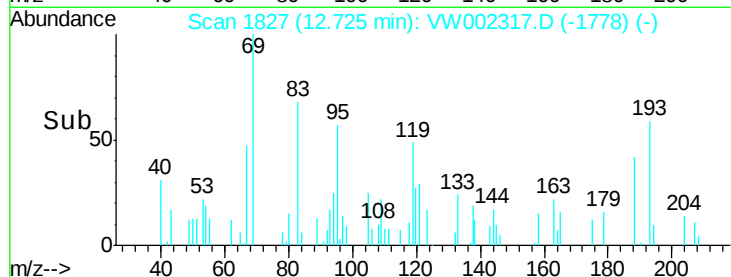
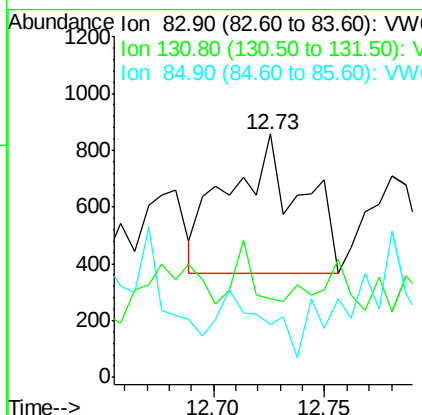
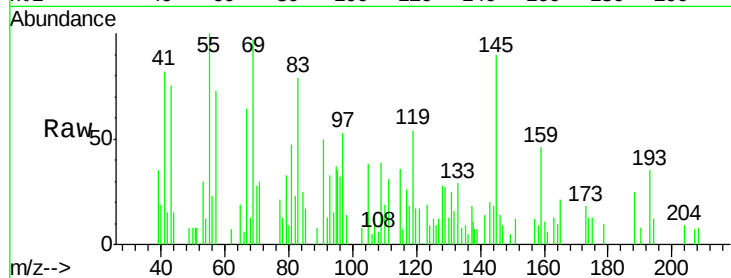




#75
 1,1,2,2-Tetrachloroethane
 Concen: 3.77 ug/l
 RT: 12.73 min Scan# 1827
 Delta R.T. -0.00 min
 Lab File: VW002317.D
 Acq: 09 May 2018 02:30

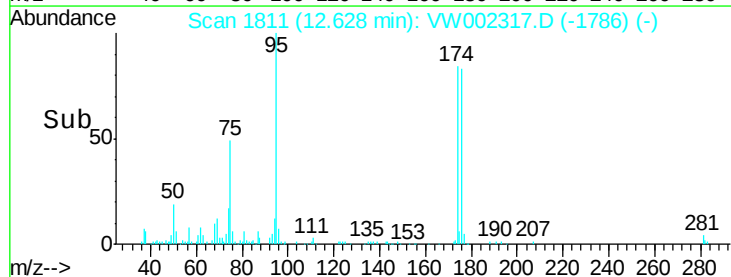
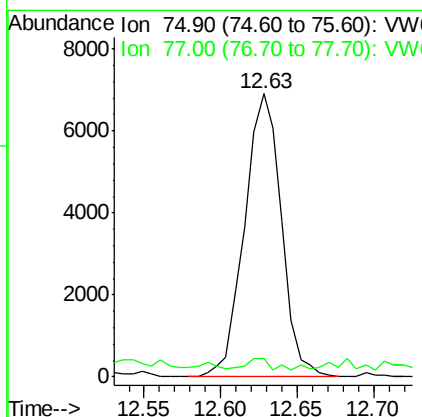
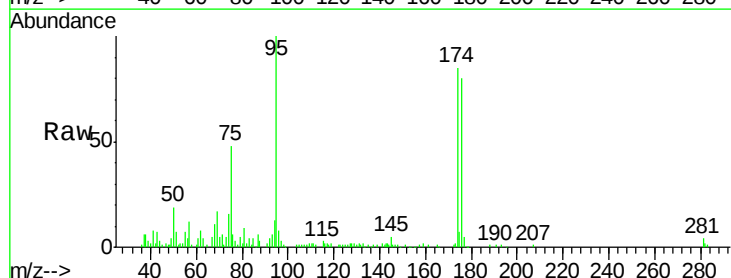
Instrument :
 MSVOA_W
 ClientSampleId :
 PL-02-050418-C

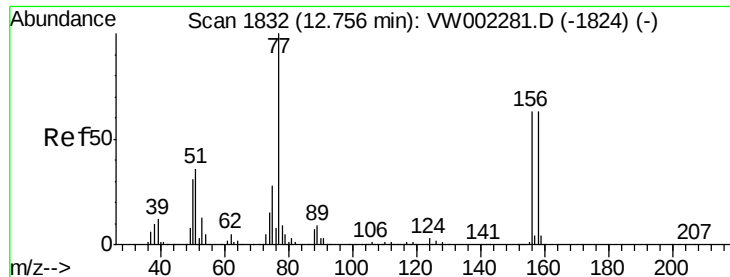
Tgt Ion: 83 Resp: 1111
 Ion Ratio Lower Upper
 83 100
 131 17.9 5.5 16.5#
 85 31.4 31.5 94.5#



#76
 1,2,3-Trichloropropane
 Concen: 55.61 ug/l
 RT: 12.63 min Scan# 1811
 Delta R.T. -0.15 min
 Lab File: VW002317.D
 Acq: 09 May 2018 02:30

Tgt Ion: 75 Resp: 11582
 Ion Ratio Lower Upper
 75 100
 77 2.7 187.5 562.6#





#77

Bromobenzene

Concen: 32.07 ug/l

RT: 12.94 min Scan# 1863

Delta R.T. 0.19 min

Lab File: VW002317.D

Acq: 09 May 2018 02:30

Instrument :

MSVOA_W

ClientSampled :

PL-02-050418-C

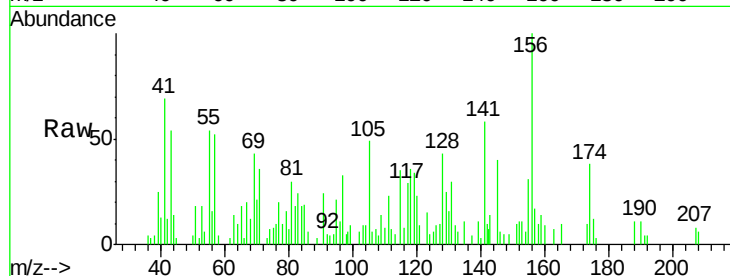
Tgt Ion:156 Resp: 12334

Ion Ratio Lower Upper

156 100

77 2.5 87.7 263.1#

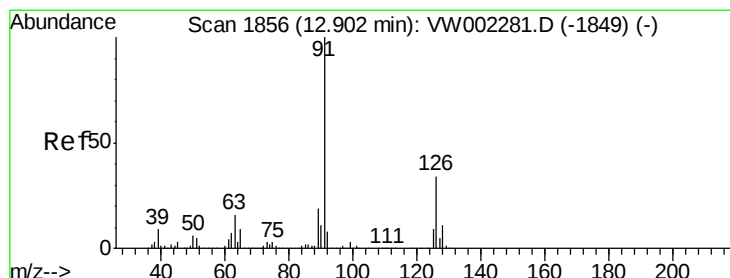
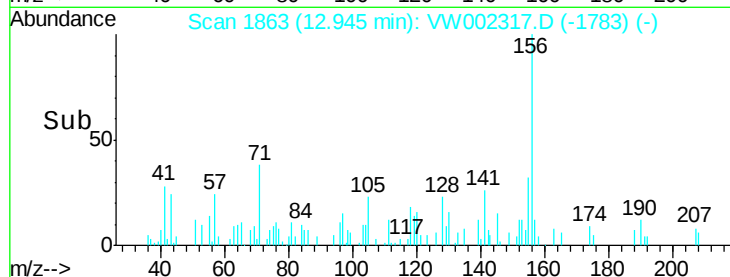
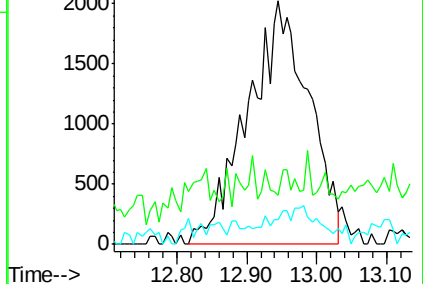
158 2.0 48.6 145.8#



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



#79

2-Chlorotoluene

Concen: 1.14 ug/l

RT: 12.82 min Scan# 1842

Delta R.T. -0.09 min

Lab File: VW002317.D

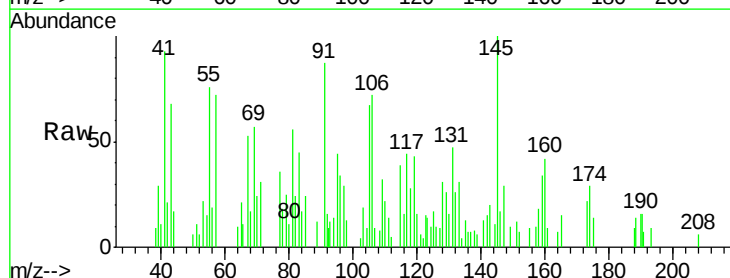
Acq: 09 May 2018 02:30

Tgt Ion: 91 Resp: 1191

Ion Ratio Lower Upper

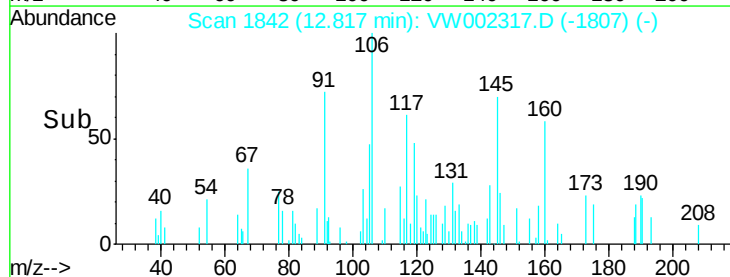
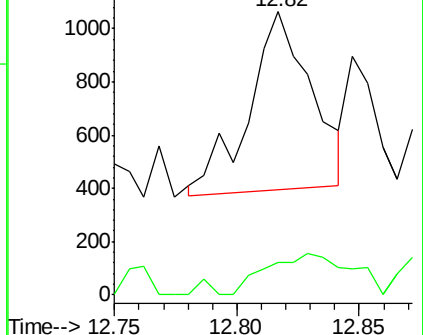
91 100

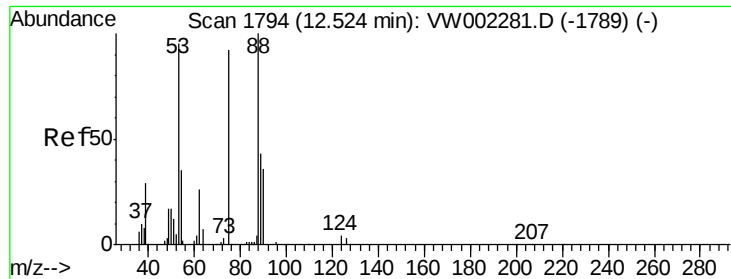
126 31.2 17.2 51.6



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 146.47 ug/l

RT: 12.63 min Scan# 1811

Delta R.T. 0.10 min

Lab File: VW002317.D

Acq: 09 May 2018 02:30

Instrument :

MSVOA_W

ClientSampleId :

PL-02-050418-C

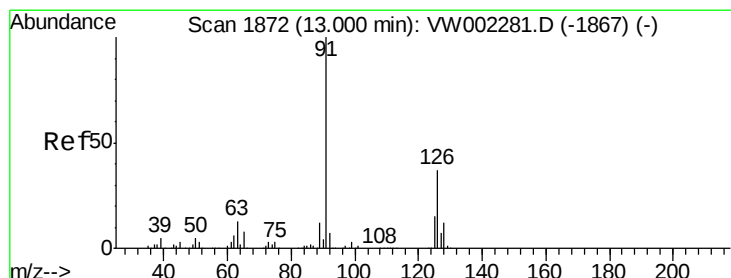
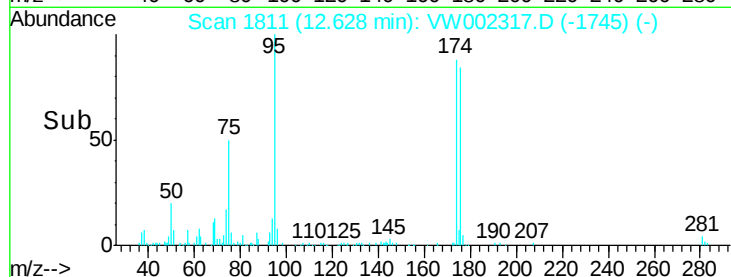
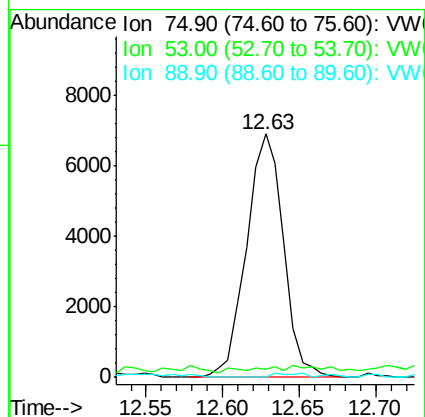
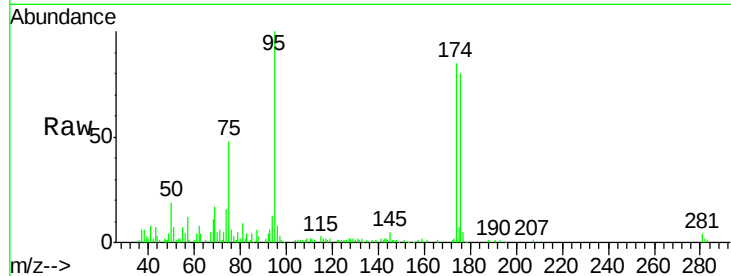
Tgt Ion: 75 Resp: 11582

Ion Ratio Lower Upper

75 100

53 0.6 79.9 119.9#

89 0.0 37.6 56.4#



#82

4-Chlorotoluene

Concen: 1.17 ug/l

RT: 12.82 min Scan# 1842

Delta R.T. -0.18 min

Lab File: VW002317.D

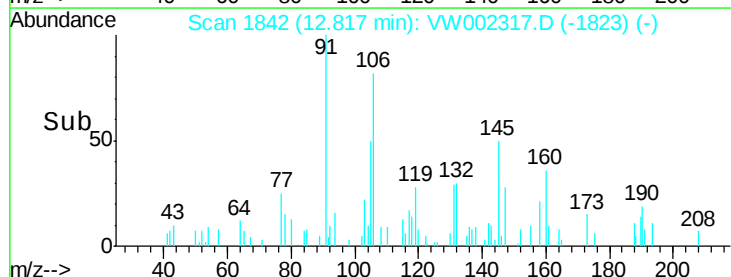
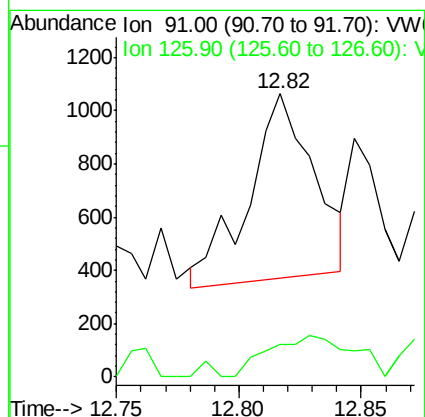
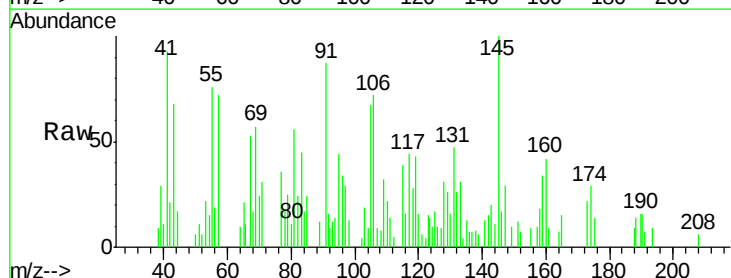
Acq: 09 May 2018 02:30

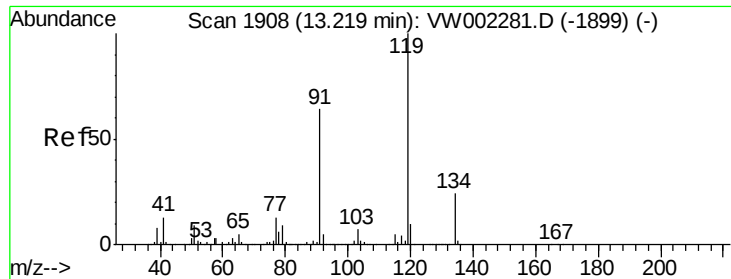
Tgt Ion: 91 Resp: 1291

Ion Ratio Lower Upper

91 100

126 28.7 17.4 52.3

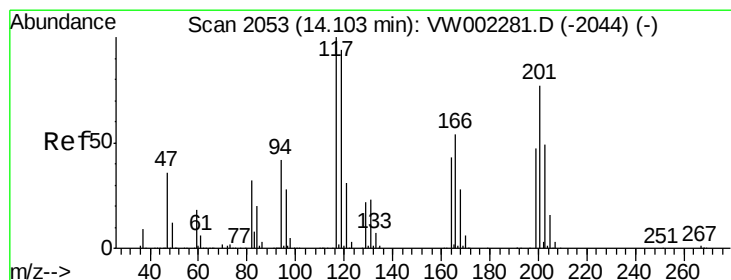
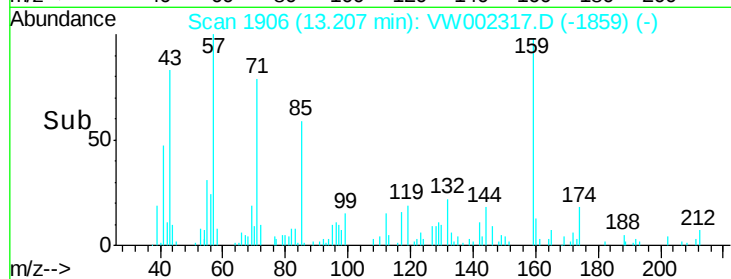
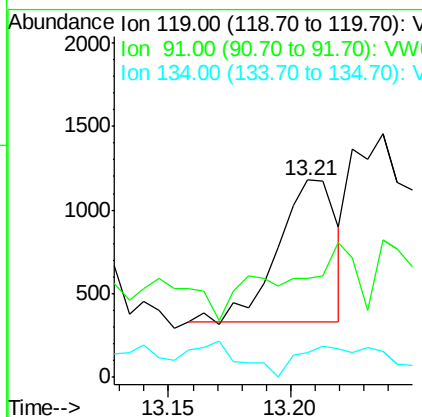
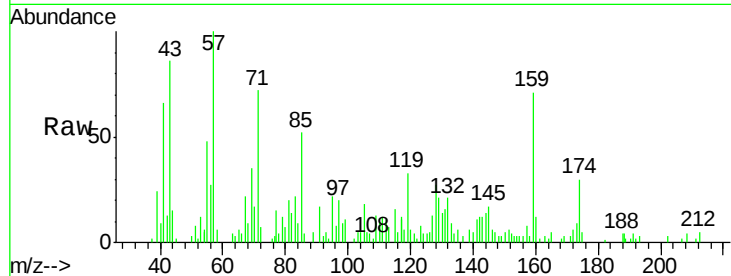




#83
tert-Butylbenzene
Concen: 1.28 ug/l
RT: 13.21 min Scan# 1906
Delta R.T. -0.01 min
Lab File: VW002317.D
Acq: 09 May 2018 02:30

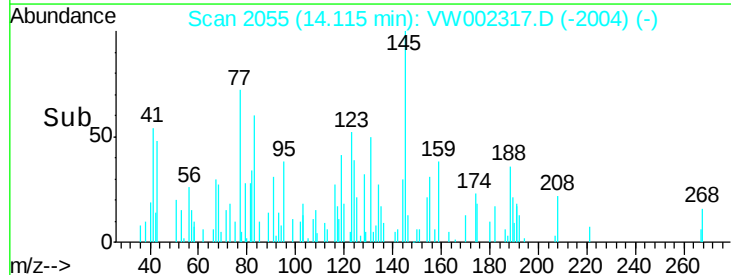
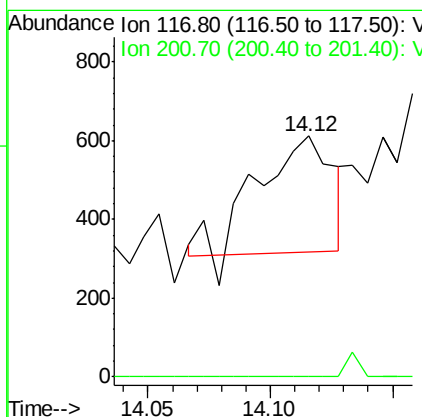
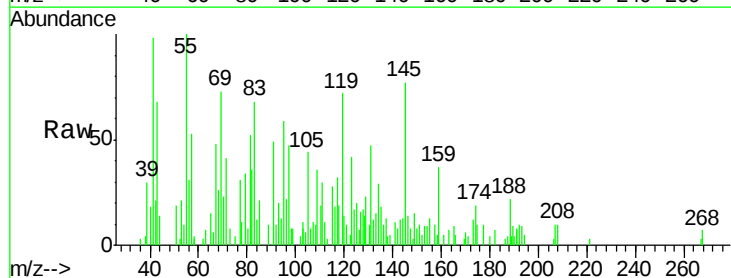
Instrument :
MSVOA_W
ClientSampleId :
PL-02-050418-C

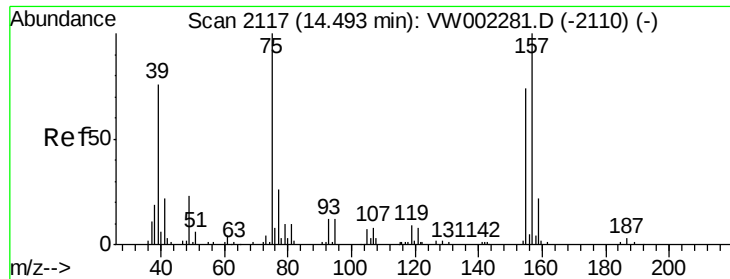
Tgt Ion:119 Resp: 1419
Ion Ratio Lower Upper
119 100
91 28.5 31.6 94.8#
134 34.2 13.1 39.3



#90
Hexachloroethane
Concen: 2.50 ug/l
RT: 14.12 min Scan# 2055
Delta R.T. 0.01 min
Lab File: VW002317.D
Acq: 09 May 2018 02:30

Tgt Ion:117 Resp: 630
Ion Ratio Lower Upper
117 100
201 3.7 42.2 126.6#

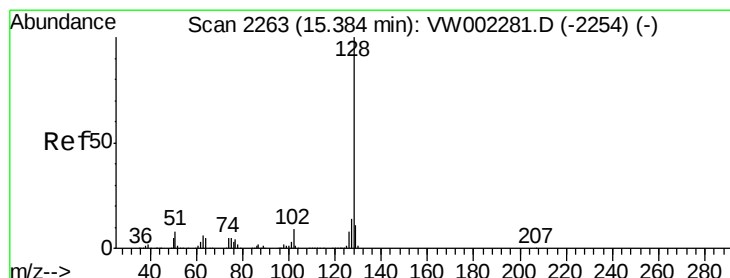
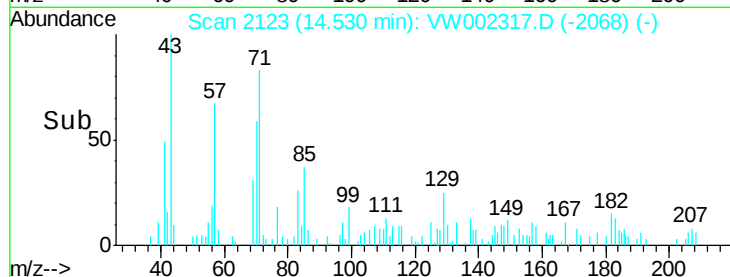
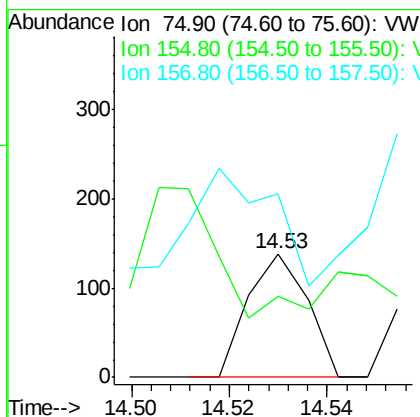
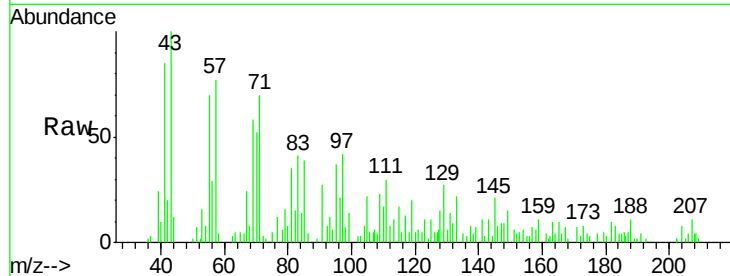




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.29 ug/l
 RT: 14.53 min Scan# 2123
 Delta R.T. 0.04 min
 Lab File: VW002317.D
 Acq: 09 May 2018 02:30

Instrument :
 MSVOA_W
 ClientSampleId :
 PL-02-050418-C

Tgt Ion: 75 Resp: 117
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.3 129.8#
 157 131.6 55.8 167.4



#95
 Naphthalene
 Concen: 1.56 ug/l
 RT: 15.39 min Scan# 2264
 Delta R.T. 0.01 min
 Lab File: VW002317.D
 Acq: 09 May 2018 02:30

Tgt Ion: 128 Resp: 1414
 Ion Ratio Lower Upper
 128 100
 127 16.5 11.0 16.4#
 129 0.0 8.7 13.1#

