

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW100618\
 Data File : VW005874.D
 Acq On : 05 Oct 2018 02:40
 Operator : SY/AP
 Sample : J5218-01RE
 Misc : 5.38G/5ML/MSVOA_W/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 280-356RE

Quant Time: Oct 05 03:01:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100418S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 04 07:08:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	171717	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	286990	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	238962	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	90529	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	86729	41.63	ug/l	0.00
Spiked Amount			Recovery	=	83.26%	
35) Dibromofluoromethane	7.89	113	70000	37.21	ug/l	0.00
Spiked Amount			Recovery	=	74.42%	
50) Toluene-d8	10.33	98	185663	24.86	ug/l	0.00
Spiked Amount			Recovery	=	49.72%	
62) 4-Bromofluorobenzene	12.62	95	75071	27.20	ug/l	0.00
Spiked Amount			Recovery	=	54.40%	

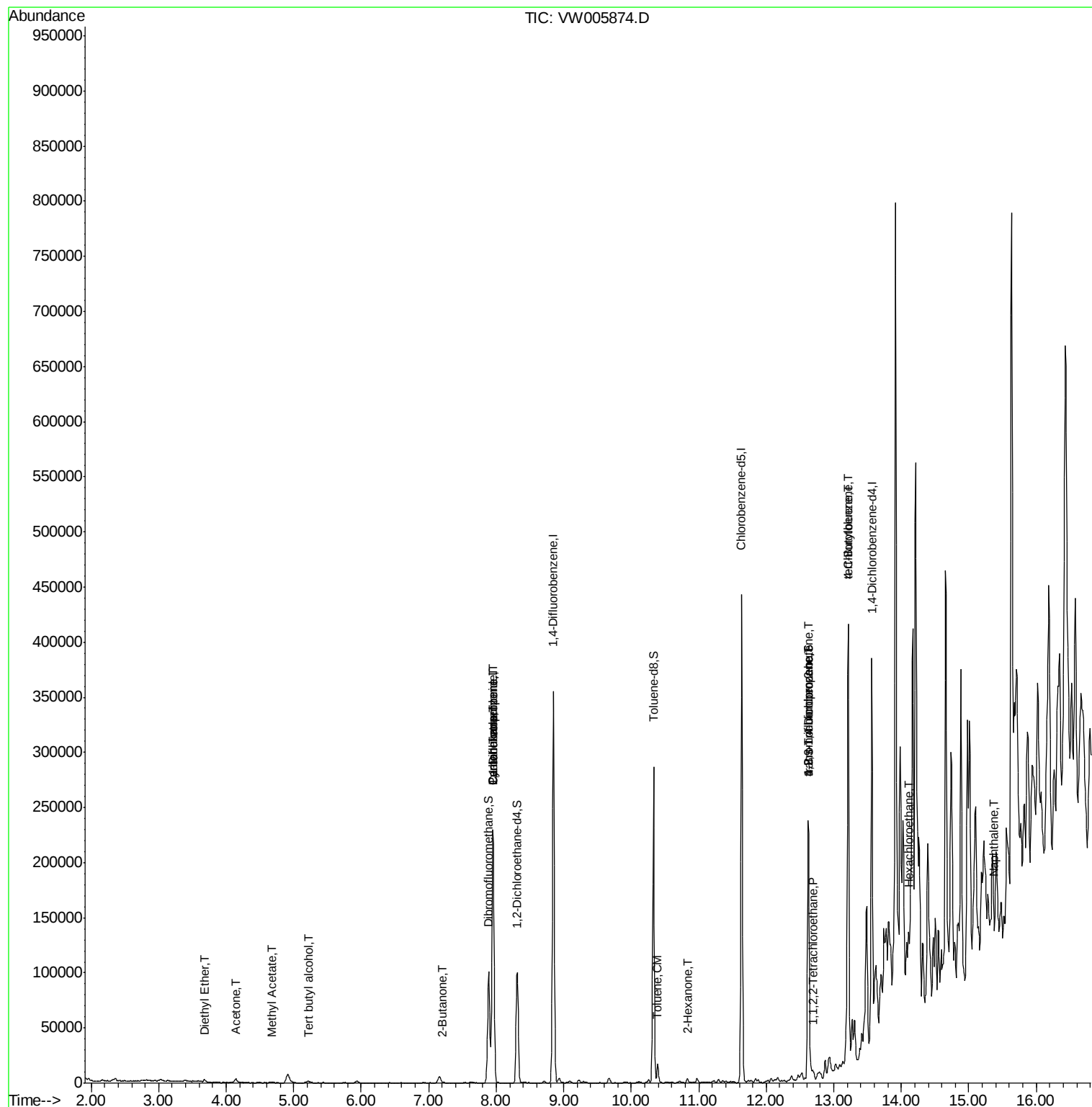
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	1484	1.644	ug/l	88
11) Tert butyl alcohol	5.22	59	2145	17.028	ug/l	99
16) Acetone	4.14	43	6326	18.196	ug/l #	86
18) Methyl Acetate	4.68	43	1807	1.828	ug/l #	68
20) Methylene Chloride	4.90	84	6899	Below Cal	#	85
25) 2-Butanone	7.21	43	920	1.881	ug/l #	84
31) Cyclohexane	7.95	56	3953	1.387	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	13121	4.600	ug/l #	51
38) Carbon Tetrachloride	7.95	117	16741	5.267	ug/l #	16
52) Toluene	10.39	92	6998	1.328	ug/l	100
59) 2-Hexanone	10.84	43	2599	3.183	ug/l	75
75) 1,1,2,2-Tetrachloroethane	12.69	83	2265	2.119	ug/l #	69
76) 1,2,3-Trichloropropane	12.62	75	39113	47.540	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	39113	120.172	ug/l #	8
82) 4-Chlorotoluene	13.21	91	119579	25.708	ug/l #	41
83) tert-Butylbenzene	13.21	119	177426	39.331	ug/l	98
90) Hexachloroethane	14.11	117	1197	1.089	ug/l #	6
95) Naphthalene	15.38	128	1762	2.563	ug/l #	68

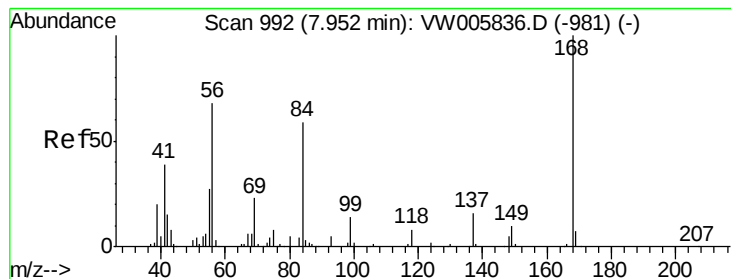
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW005874.D

Acq: 05 Oct 2018 02:40

Instrument :

MSVOA_W

ClientSampleId :

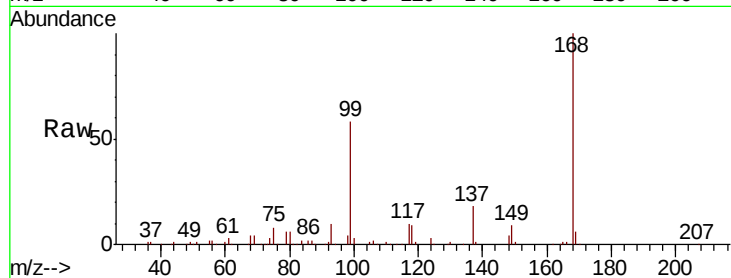
280-356RE

Tgt Ion:168 Resp: 171717

Ion Ratio Lower Upper

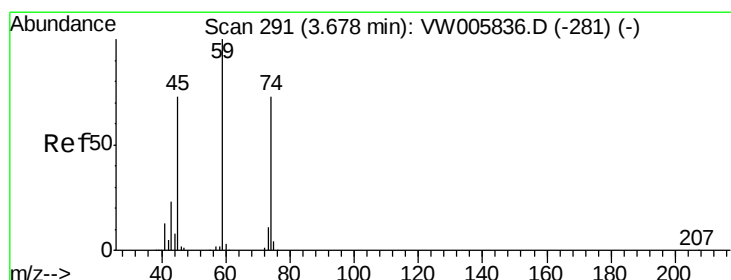
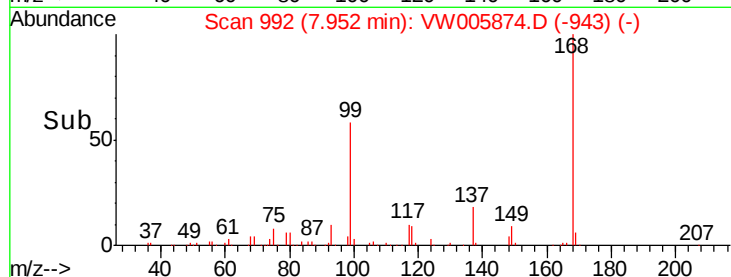
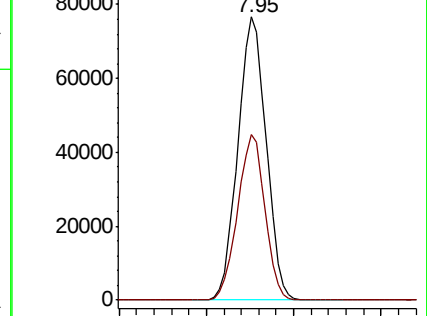
168 100

99 58.5 45.4 68.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#8

Diethyl Ether

Concen: 1.644 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.00 min

Lab File: VW005874.D

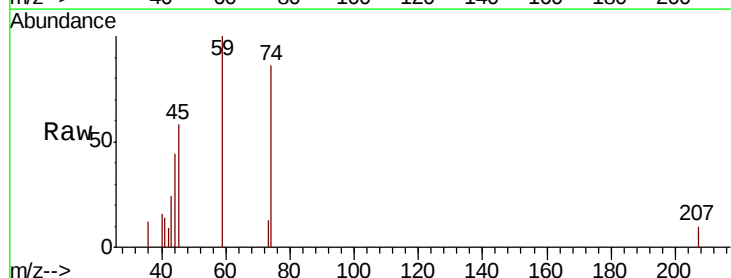
Acq: 05 Oct 2018 02:40

Tgt Ion: 74 Resp: 1484

Ion Ratio Lower Upper

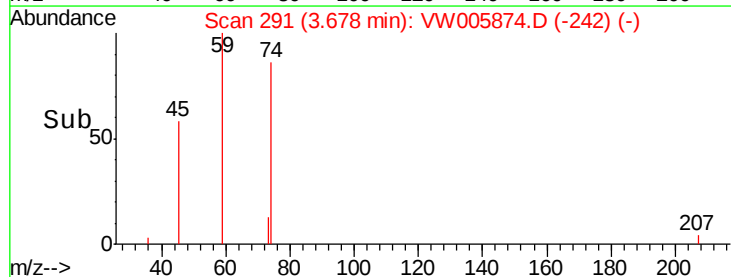
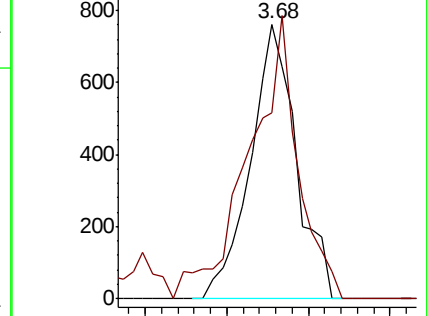
74 100

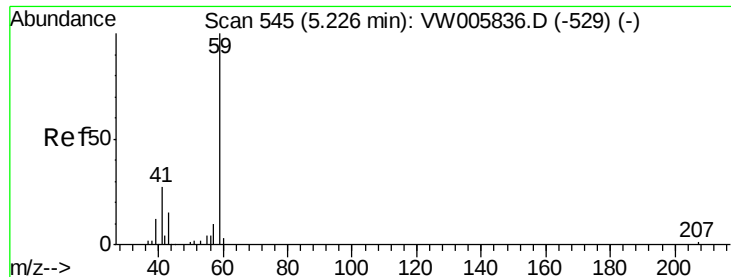
45 109.7 49.1 147.4



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#11

Tert butyl alcohol

Concen: 17.028 ug/l

RT: 5.22 min Scan# 544

Delta R.T. -0.01 min

Lab File: VW005874.D

Acq: 05 Oct 2018 02:40

Instrument :

MSVOA_W

ClientSampleId :

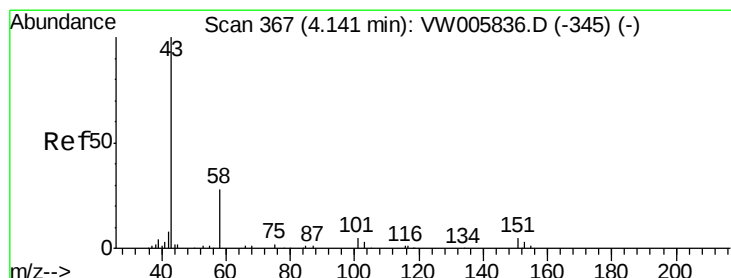
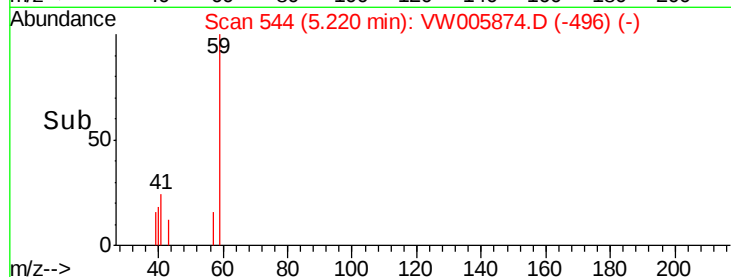
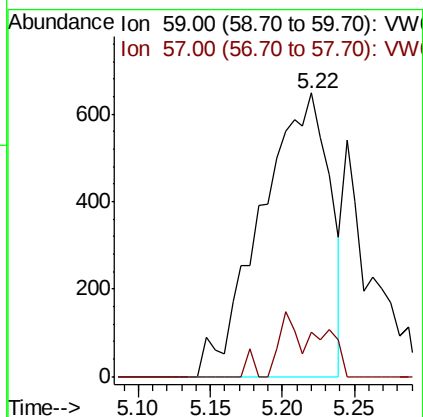
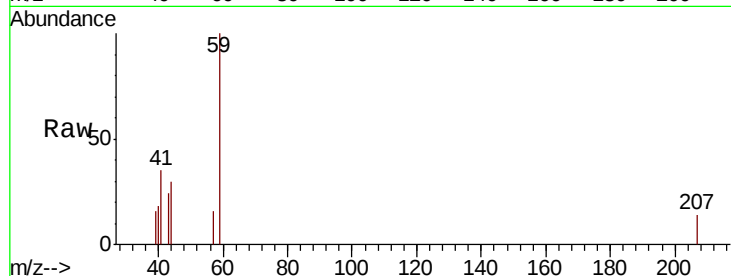
280-356RE

Tgt Ion: 59 Resp: 2145

Ion Ratio Lower Upper

59 100

57 6.4 4.9 7.3



#16

Acetone

Concen: 18.196 ug/l

RT: 4.14 min Scan# 366

Delta R.T. -0.01 min

Lab File: VW005874.D

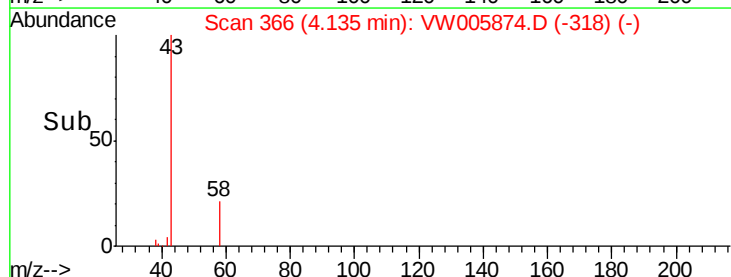
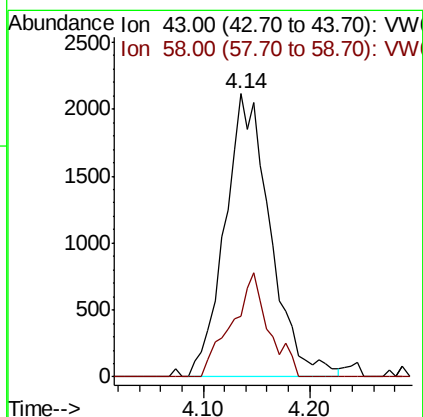
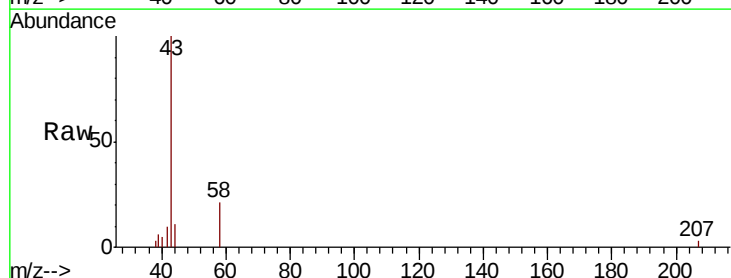
Acq: 05 Oct 2018 02:40

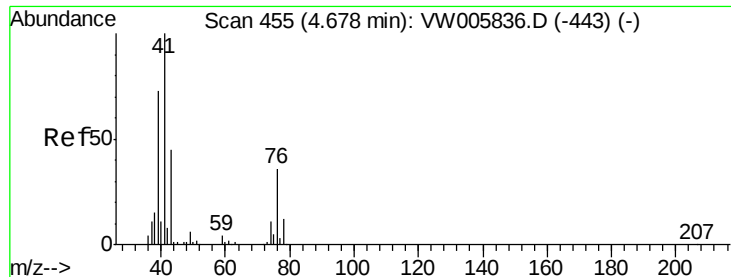
Tgt Ion: 43 Resp: 6326

Ion Ratio Lower Upper

43 100

58 21.3 23.0 34.4#

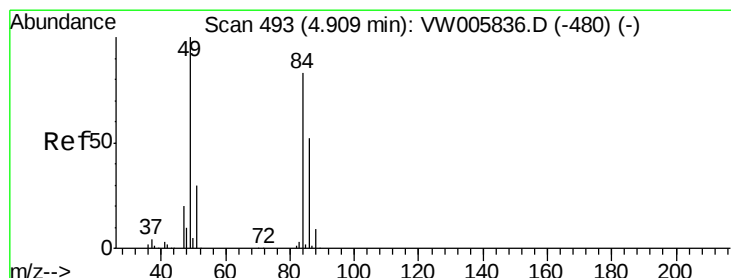
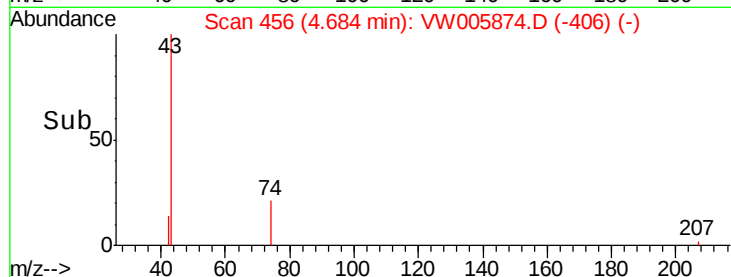
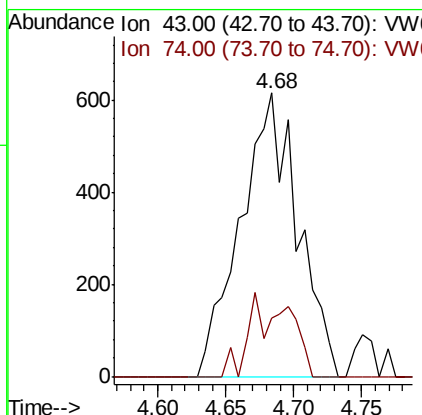
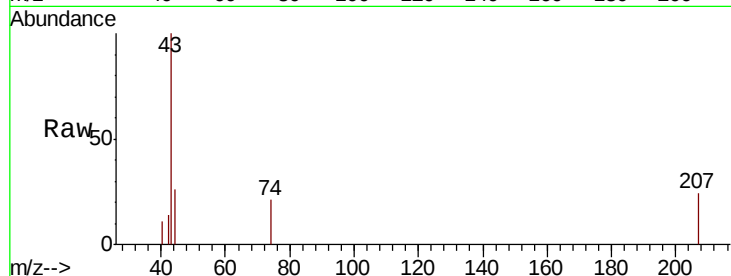




#18
Methyl Acetate
Concen: 1.828 ug/l
RT: 4.68 min Scan# 456
Delta R.T. 0.01 min
Lab File: VW005874.D
Acq: 05 Oct 2018 02:40

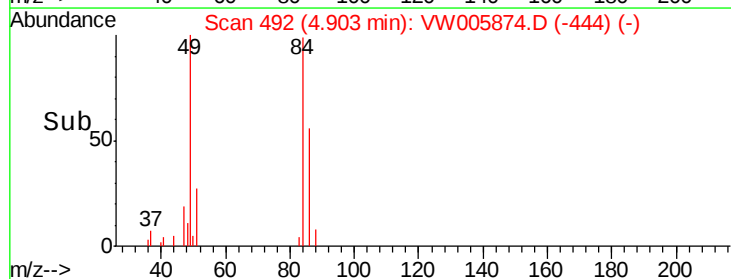
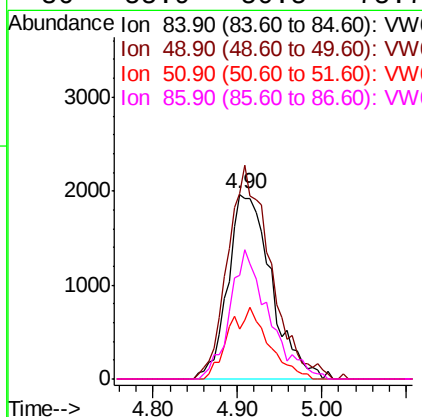
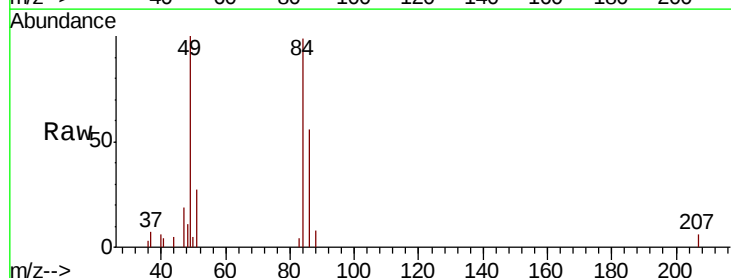
Instrument :
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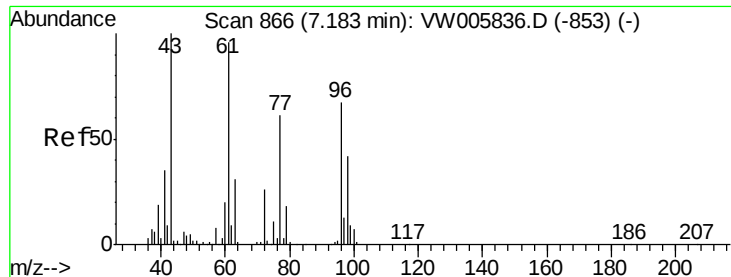
Tgt Ion: 43 Resp: 1807
Ion Ratio Lower Upper
43 100
74 8.4 19.5 29.3#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW005874.D
Acq: 05 Oct 2018 02:40

Tgt Ion: 84 Resp: 6899
Ion Ratio Lower Upper
84 100
49 100.6 96.8 145.2
51 26.8 28.8 43.2#
86 55.9 50.5 75.7

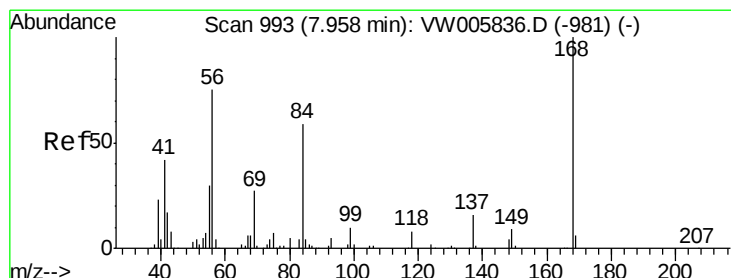
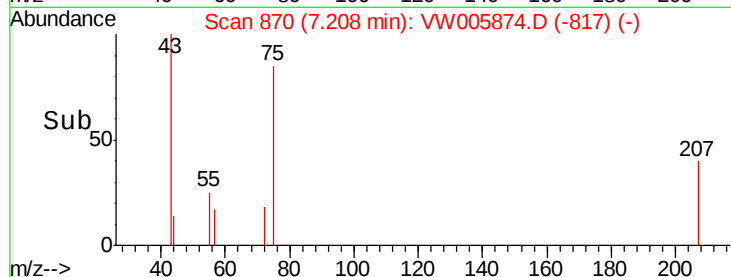
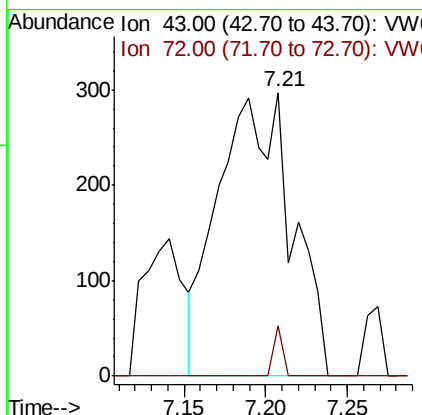
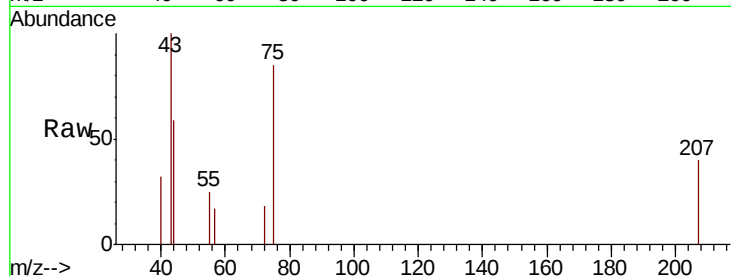




#25
2-Butanone
Concen: 1.881 ug/l
RT: 7.21 min Scan# 870
Delta R.T. 0.02 min
Lab File: VW005874.D
Acq: 05 Oct 2018 02:40

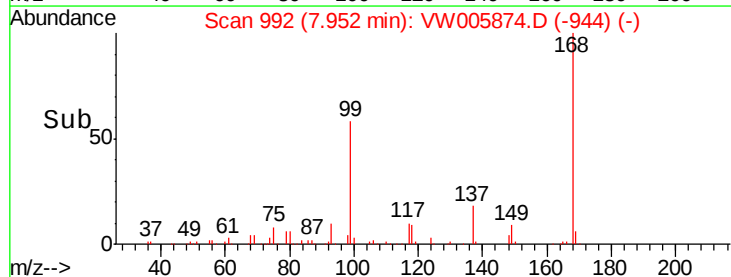
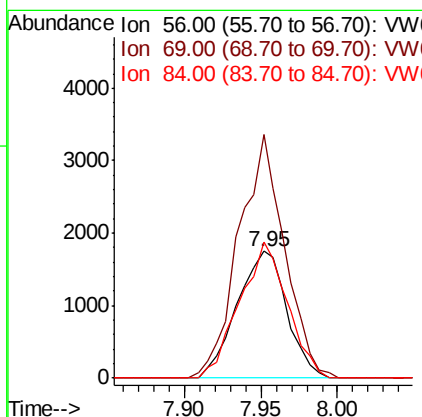
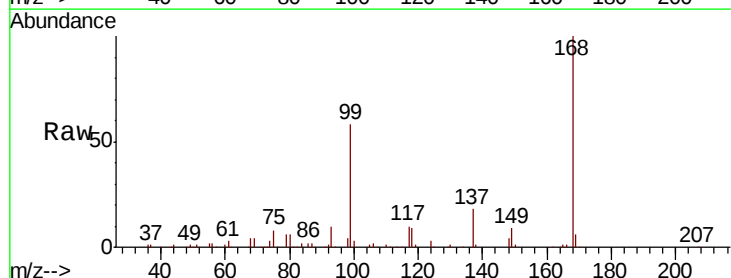
Instrument :
MSVOA_W
ClientSampleId :
280-356RE

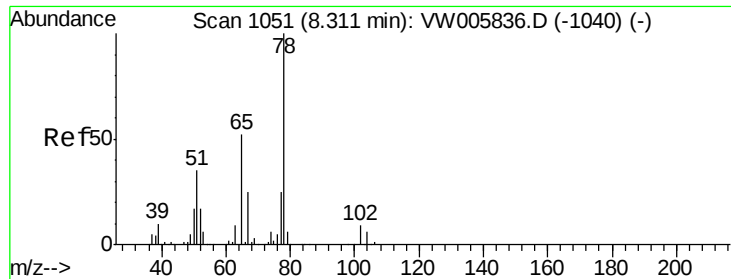
Tgt Ion: 43 Resp: 920
Ion Ratio Lower Upper
43 100
72 17.8 20.9 31.3#



#31
Cyclohexane
Concen: 1.387 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW005874.D
Acq: 05 Oct 2018 02:40

Tgt Ion: 56 Resp: 3953
Ion Ratio Lower Upper
56 100
69 191.8 29.0 43.4#
84 107.4 63.5 95.3#

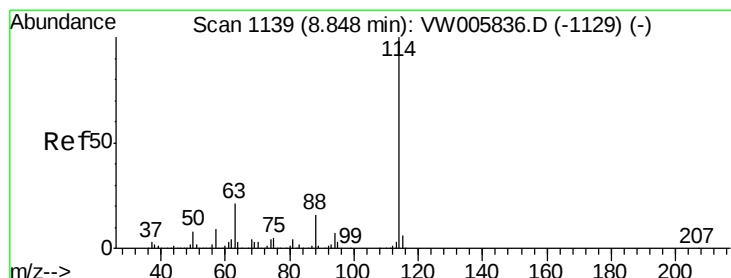
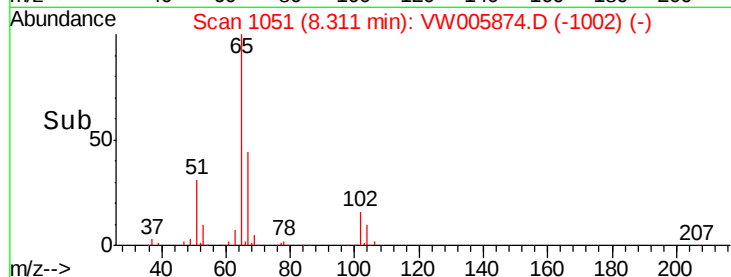
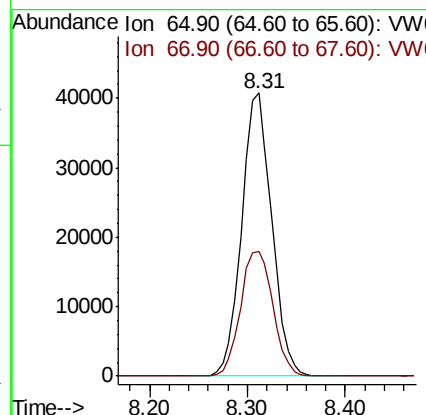
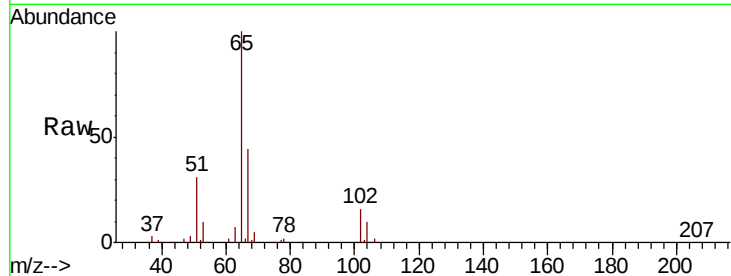




#33
 1,2-Dichloroethane-d4
 Concen: 41.633 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VW005874.D
 Acq: 05 Oct 2018 02:40

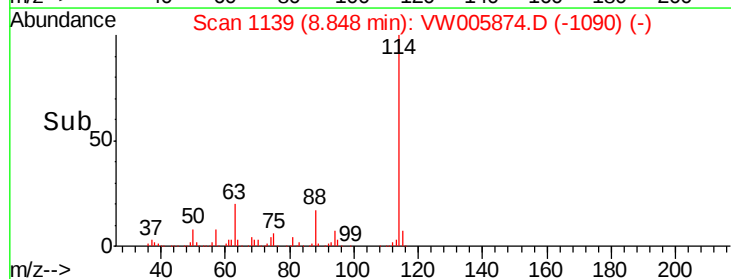
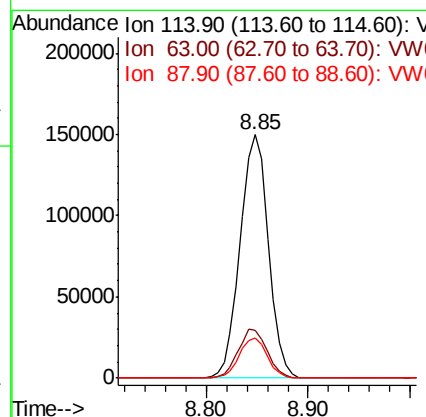
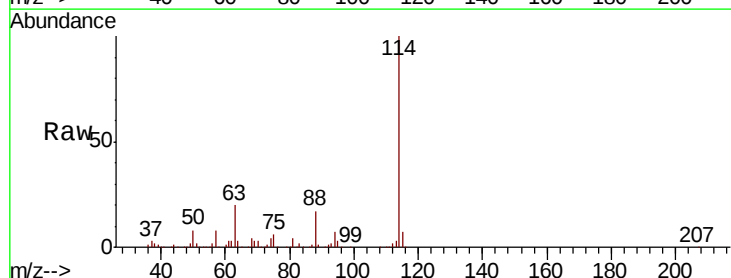
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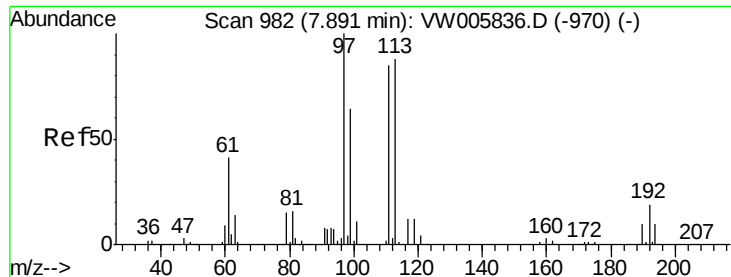
Tgt Ion: 65 Resp: 86729
 Ion Ratio Lower Upper
 65 100
 67 47.6 0.0 98.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. -0.00 min
 Lab File: VW005874.D
 Acq: 05 Oct 2018 02:40

Tgt Ion: 114 Resp: 286990
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 42.0
 88 16.6 0.0 31.2

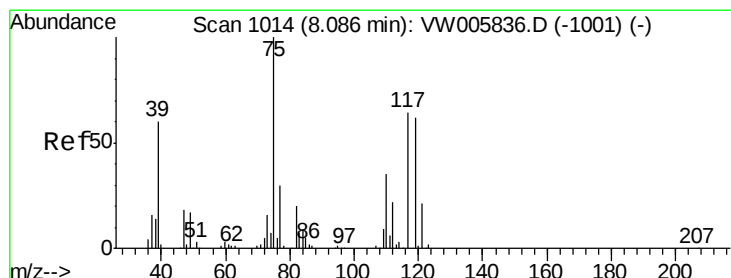
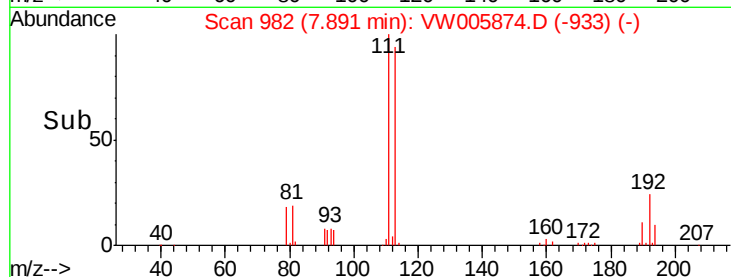
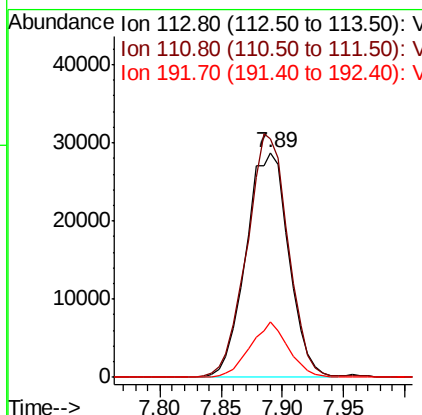
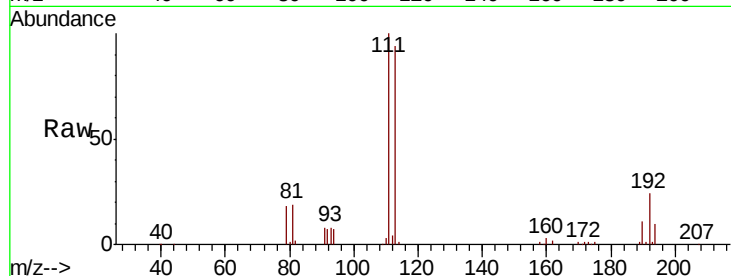




#35
 Dibromofluoromethane
 Concen: 37.213 ug/l
 RT: 7.89 min Scan# 982
 Delta R.T. -0.00 min
 Lab File: VW005874.D
 Acq: 05 Oct 2018 02:40

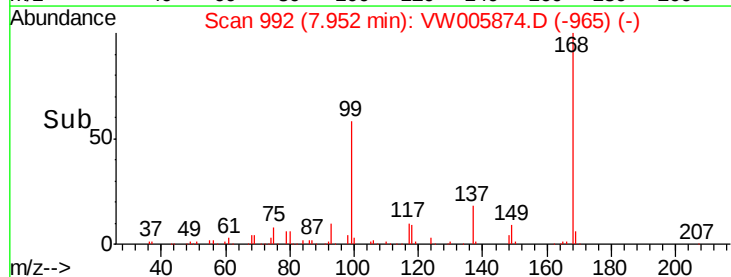
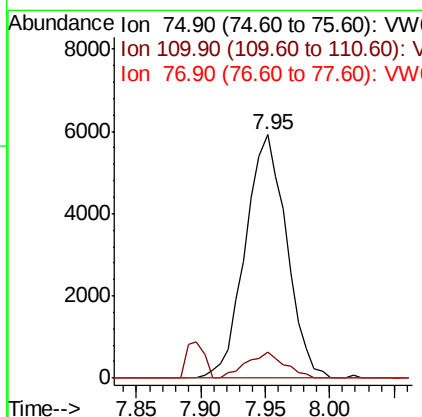
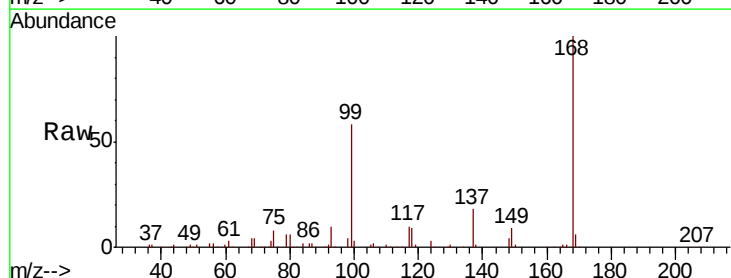
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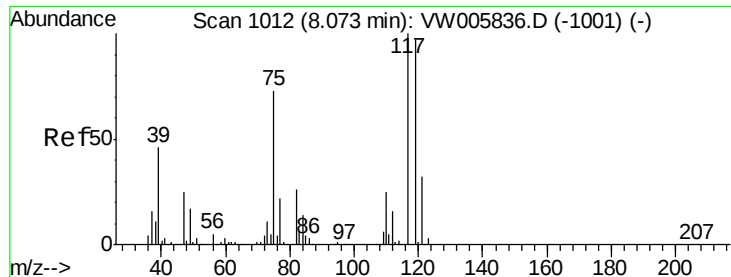
Tgt Ion:113 Resp: 70000
 Ion Ratio Lower Upper
 113 100
 111 104.4 81.4 122.2
 192 22.1 17.3 25.9



#36
 1,1-Dichloropropene
 Concen: 4.600 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW005874.D
 Acq: 05 Oct 2018 02:40

Tgt Ion: 75 Resp: 13121
 Ion Ratio Lower Upper
 75 100
 110 9.9 17.5 52.6#
 77 0.0 24.8 37.2#

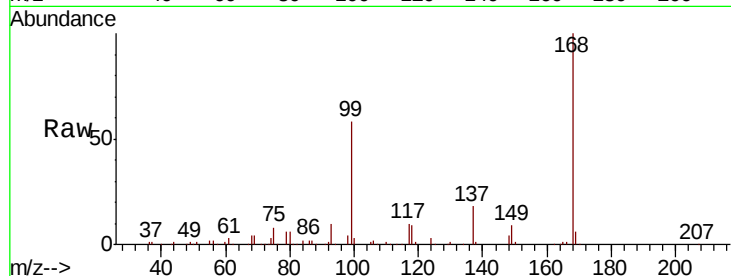




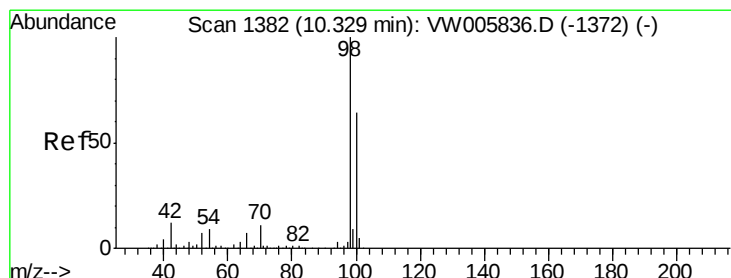
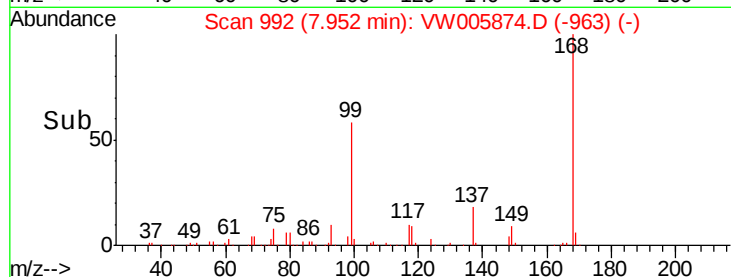
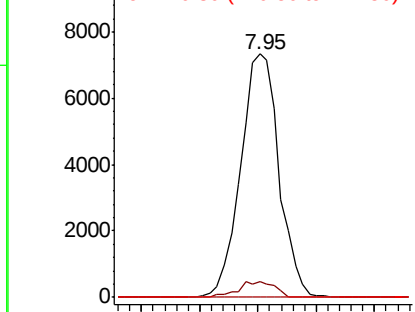
#38
Carbon Tetrachloride
Concen: 5.267 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.12 min
Lab File: VW005874.D
Acq: 05 Oct 2018 02:40

Instrument :
MSVOA_W
ClientSampleId :
280-356RE

Tgt Ion:117 Resp: 16741
Ion Ratio Lower Upper
117 100
119 6.2 77.9 116.9#
121 0.0 25.2 37.8#

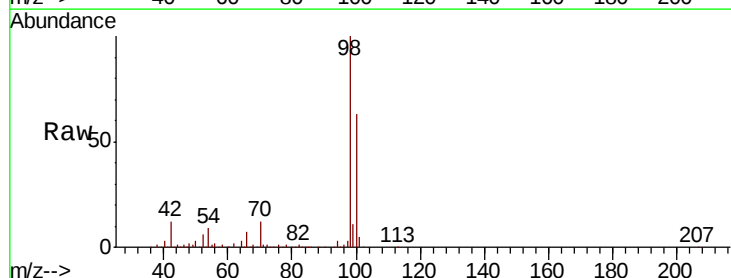


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

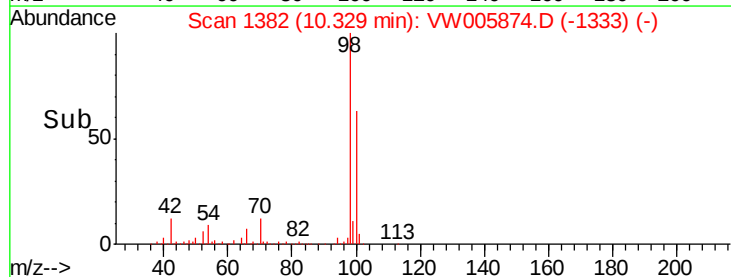
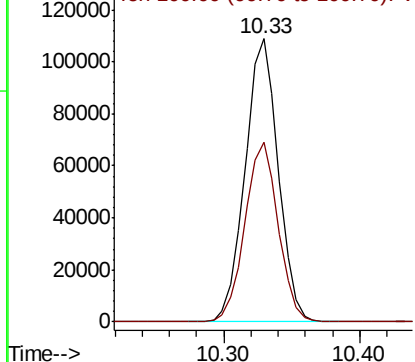


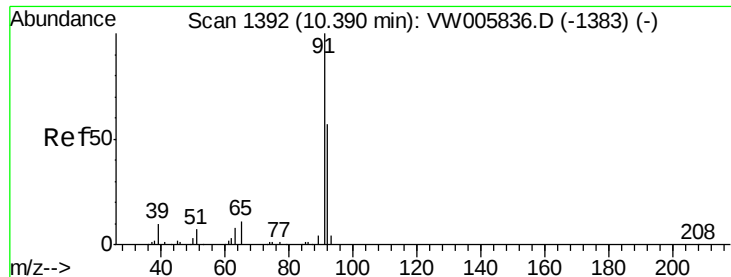
#50
Toluene-d8
Concen: 24.857 ug/l
RT: 10.33 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VW005874.D
Acq: 05 Oct 2018 02:40

Tgt Ion: 98 Resp: 185663
Ion Ratio Lower Upper
98 100
100 63.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW
Ion 100.00 (99.70 to 100.70): V





#52

Toluene

Concen: 1.328 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW005874.D

Acq: 05 Oct 2018 02:40

Instrument :

MSVOA_W

ClientSampleId :

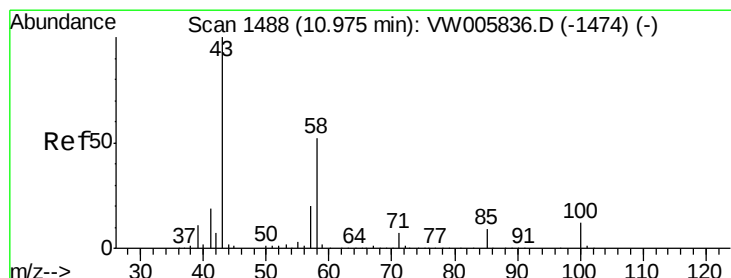
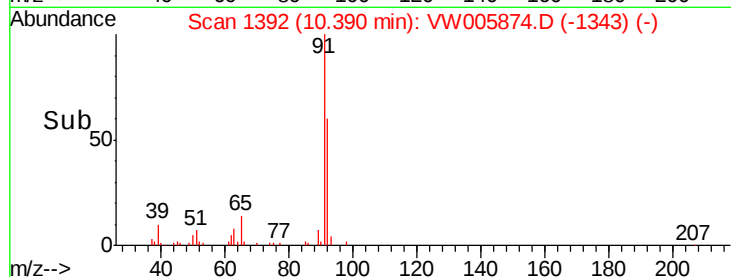
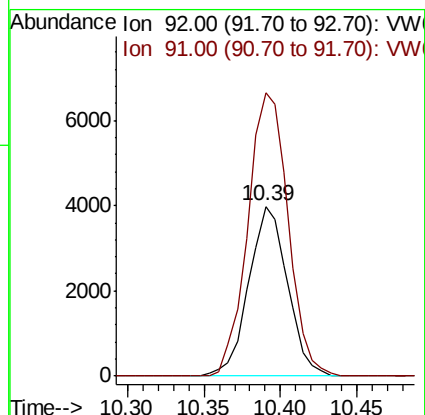
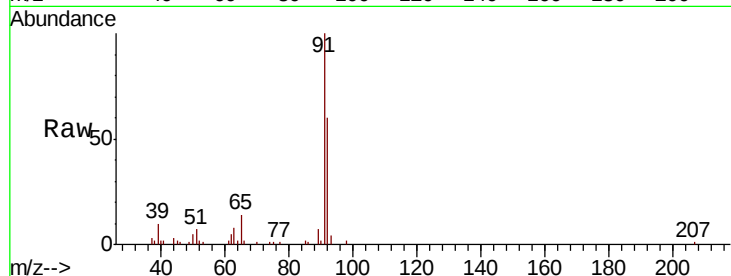
280-356RE

Tgt Ion: 92 Resp: 6998

Ion Ratio Lower Upper

92 100

91 174.0 139.0 208.4



#59

2-Hexanone

Concen: 3.183 ug/l

RT: 10.84 min Scan# 1465

Delta R.T. -0.14 min

Lab File: VW005874.D

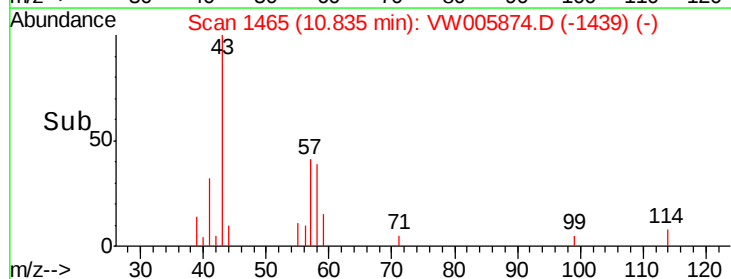
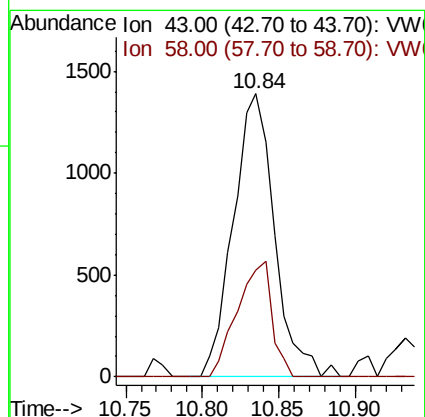
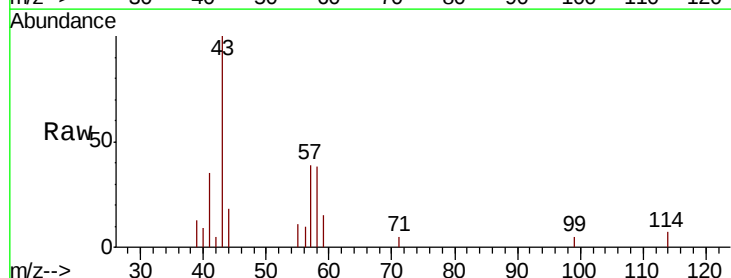
Acq: 05 Oct 2018 02:40

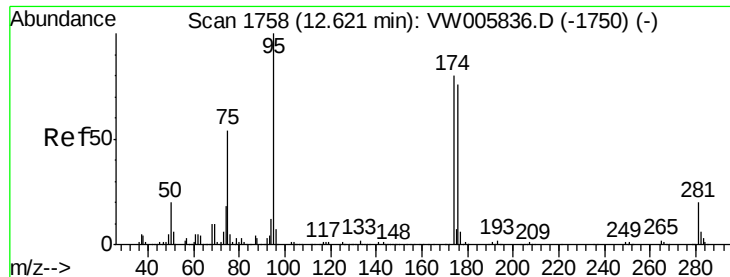
Tgt Ion: 43 Resp: 2599

Ion Ratio Lower Upper

43 100

58 34.1 25.9 77.7





#62

4-Bromofluorobenzene

Concen: 27.197 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW005874.D

Acq: 05 Oct 2018 02:40

Instrument :

MSVOA_W

ClientSampleId :

280-356RE

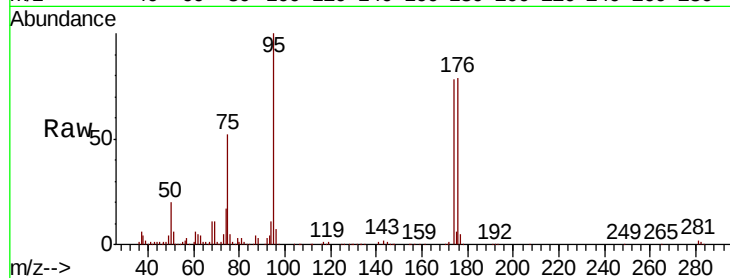
Tgt Ion: 95 Resp: 75071

Ion Ratio Lower Upper

95 100

174 84.7 0.0 169.0

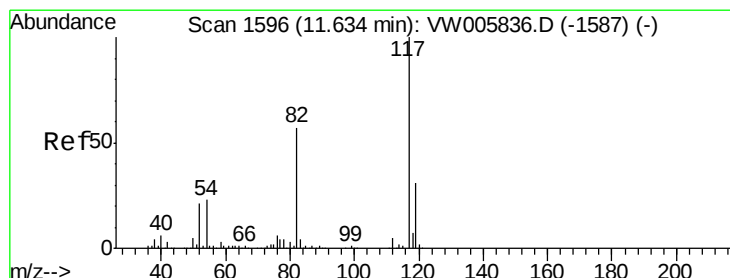
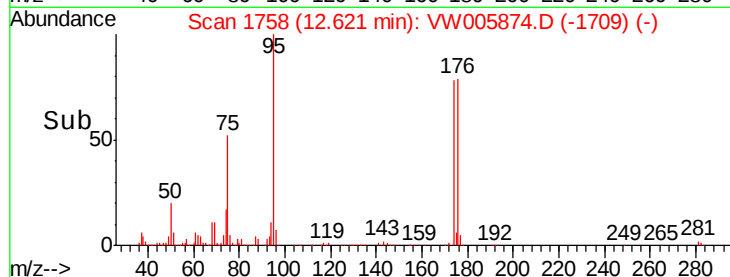
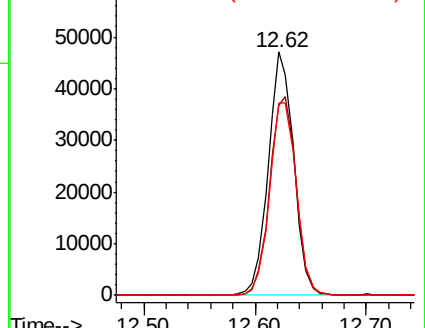
176 82.8 0.0 164.2



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. -0.00 min

Lab File: VW005874.D

Acq: 05 Oct 2018 02:40

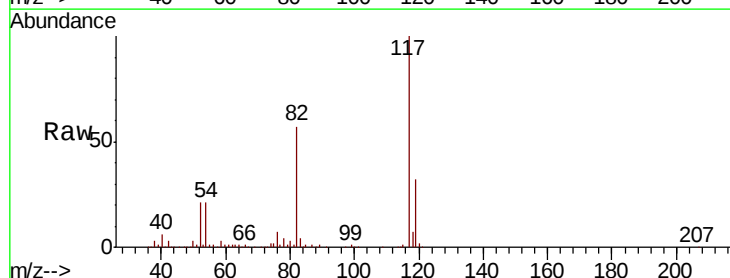
Tgt Ion: 117 Resp: 238962

Ion Ratio Lower Upper

117 100

82 57.2 45.6 68.4

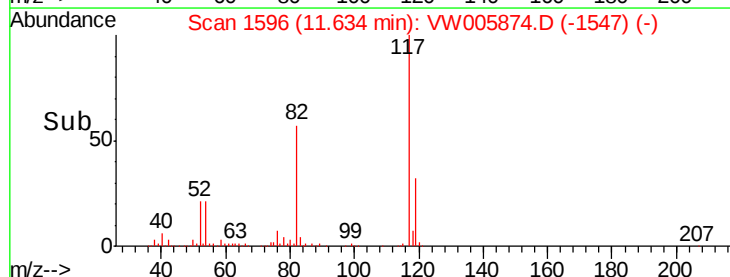
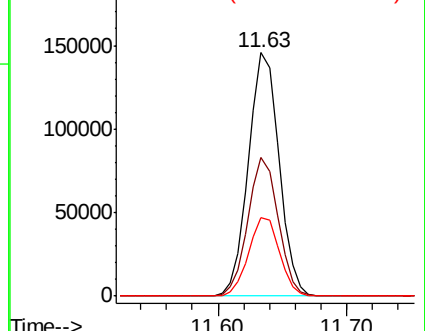
119 32.4 25.0 37.6

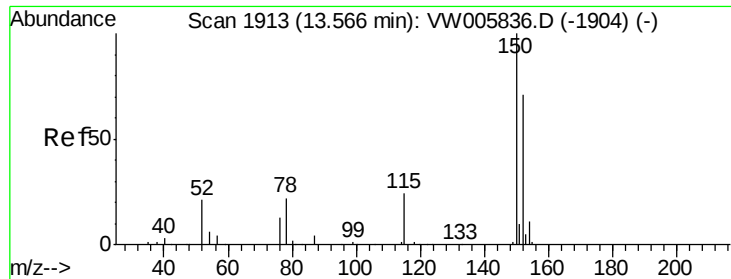


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1913

Delta R.T. -0.00 min

Lab File: VW005874.D

Acq: 05 Oct 2018 02:40

Instrument :

MSVOA_W

ClientSampleId :

280-356RE

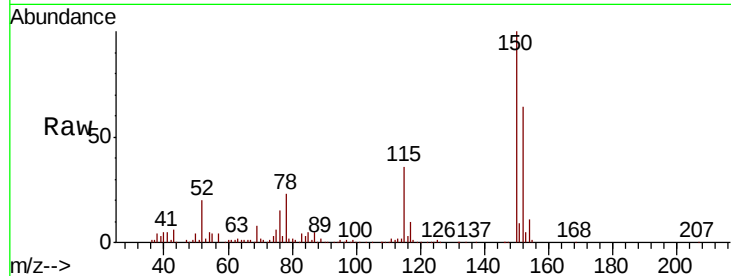
Tgt Ion:152 Resp: 90529

Ion Ratio Lower Upper

152 100

115 58.4 29.8 89.4

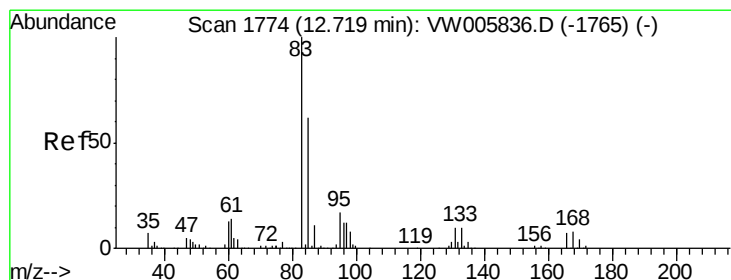
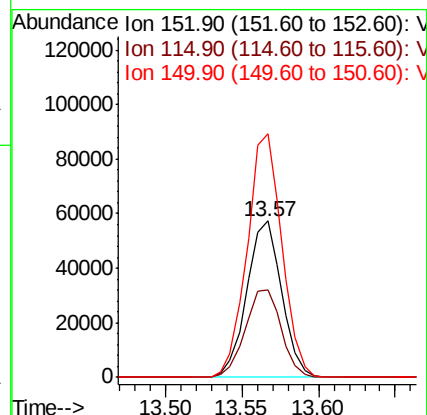
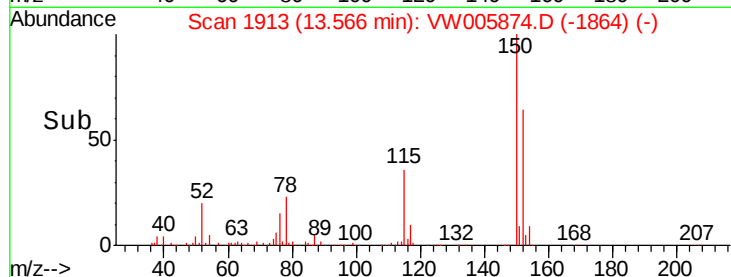
150 155.7 0.0 349.4



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



#75

1,1,2,2-Tetrachloroethane

Concen: 2.119 ug/l

RT: 12.69 min Scan# 1769

Delta R.T. -0.03 min

Lab File: VW005874.D

Acq: 05 Oct 2018 02:40

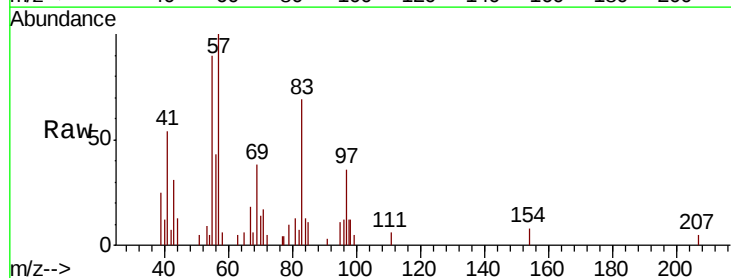
Tgt Ion: 83 Resp: 2265

Ion Ratio Lower Upper

83 100

131 0.0 5.9 17.6#

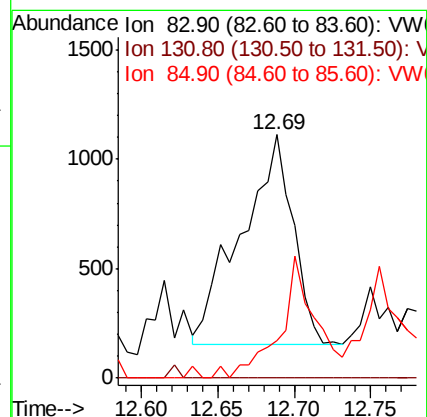
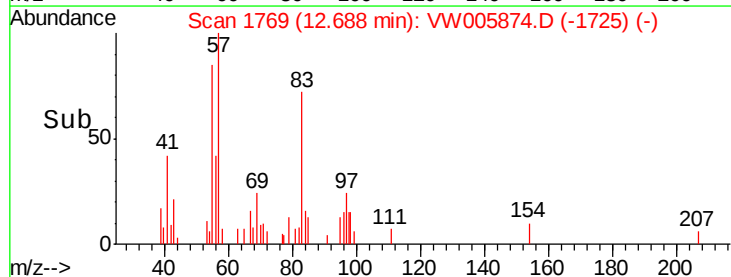
85 39.7 31.8 95.3

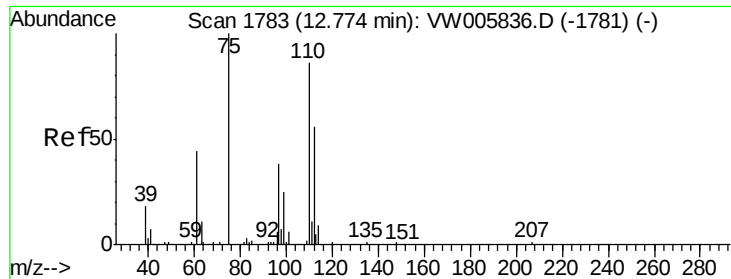


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 47.540 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW005874.D

Acq: 05 Oct 2018 02:40

Instrument :

MSVOA_W

ClientSampled :

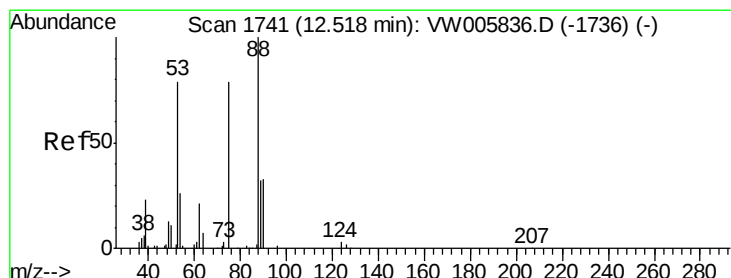
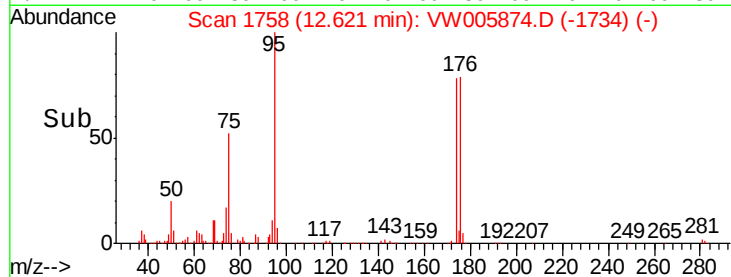
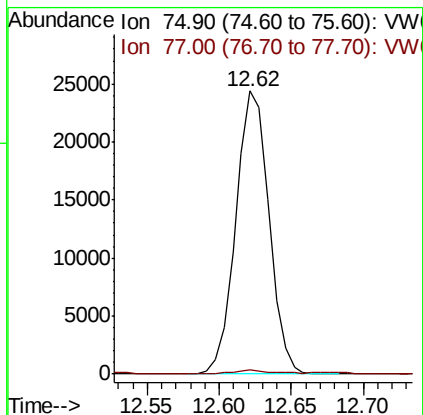
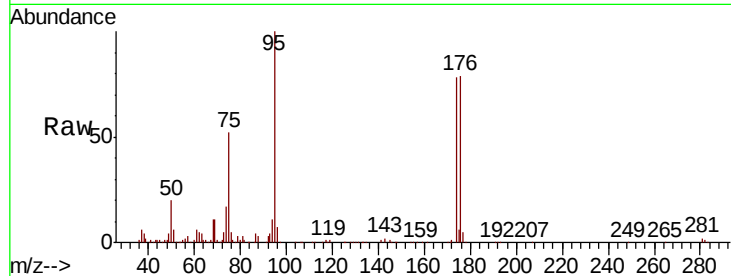
280-356RE

Tgt Ion: 75 Resp: 39113

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 120.172 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW005874.D

Acq: 05 Oct 2018 02:40

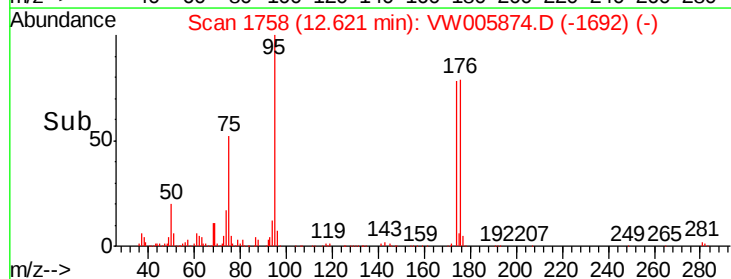
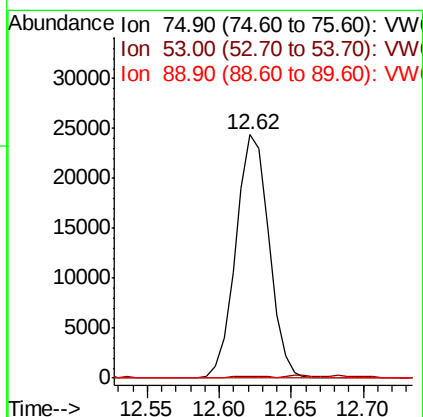
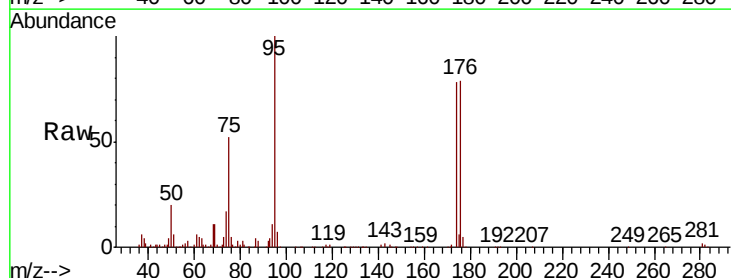
Tgt Ion: 75 Resp: 39113

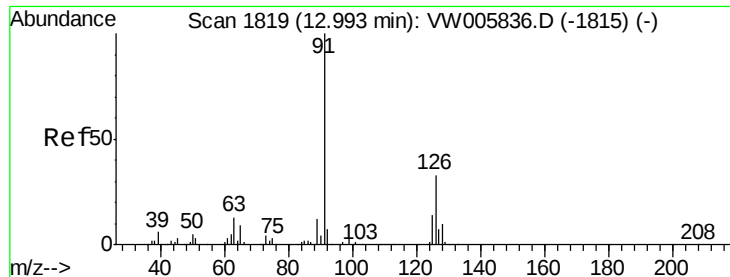
Ion Ratio Lower Upper

75 100

53 0.9 83.7 125.5#

89 0.0 37.5 56.3#





#82

4-Chlorotoluene

Concen: 25.708 ug/l

RT: 13.21 min Scan# 1855

Delta R.T. 0.22 min

Lab File: VW005874.D

Acq: 05 Oct 2018 02:40

Instrument :

MSVOA_W

ClientSampleId :

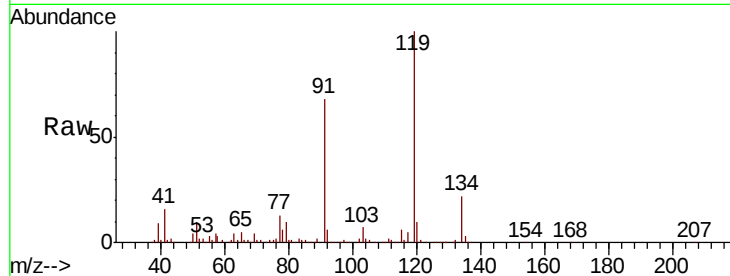
280-356RE

Tgt Ion: 91 Resp: 119579

Ion Ratio Lower Upper

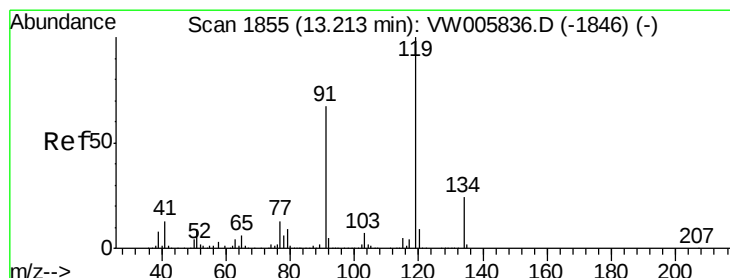
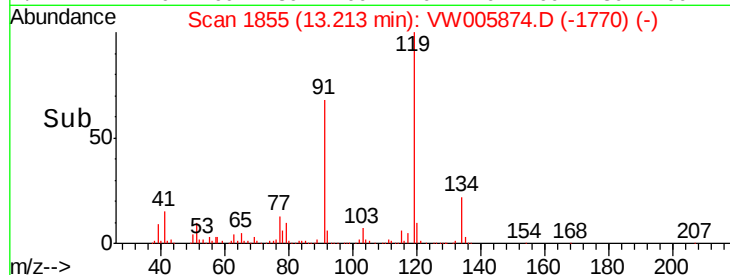
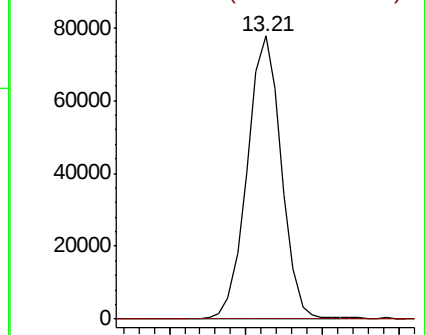
91 100

126 0.1 16.7 50.0#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#83

tert-Butylbenzene

Concen: 39.331 ug/l

RT: 13.21 min Scan# 1855

Delta R.T. -0.00 min

Lab File: VW005874.D

Acq: 05 Oct 2018 02:40

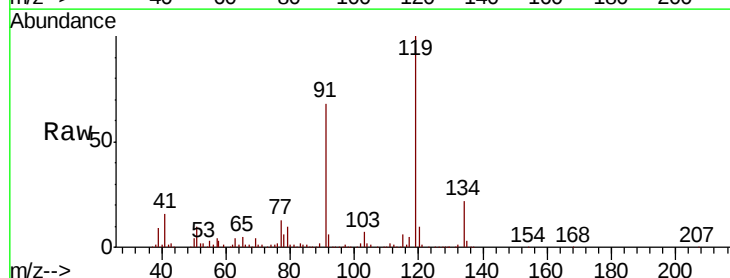
Tgt Ion: 119 Resp: 177426

Ion Ratio Lower Upper

119 100

91 67.4 33.4 100.2

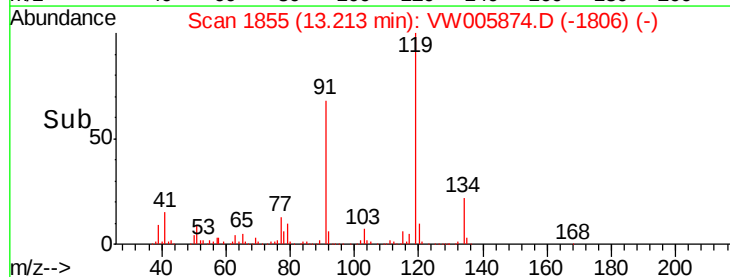
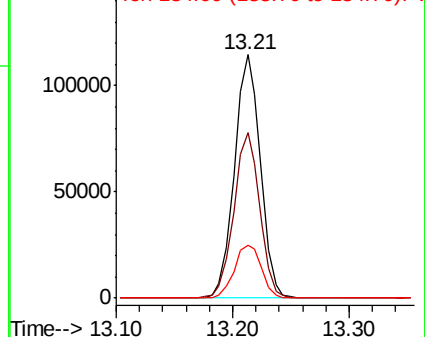
134 22.9 12.8 38.3

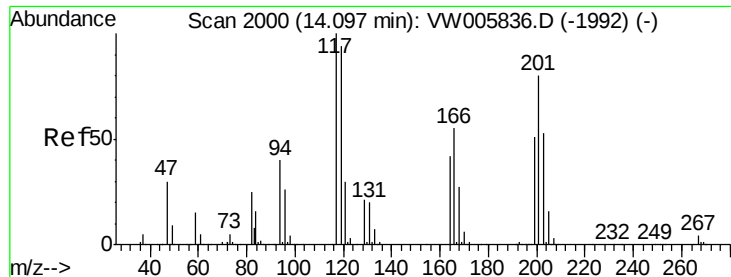


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VW

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 1.089 ug/l

RT: 14.11 min Scan# 2002

Delta R.T. 0.01 min

Lab File: VW005874.D

Acq: 05 Oct 2018 02:40

Instrument :

MSVOA_W

ClientSampleId :

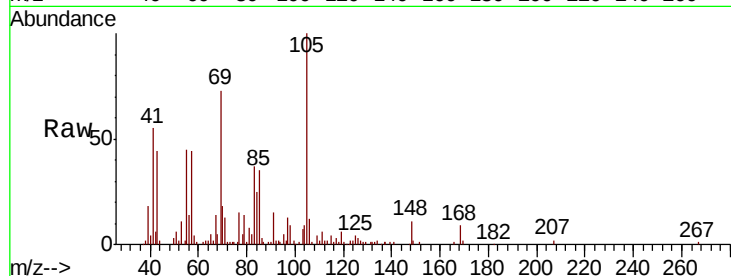
280-356RE

Tgt Ion:117 Resp: 1197

Ion Ratio Lower Upper

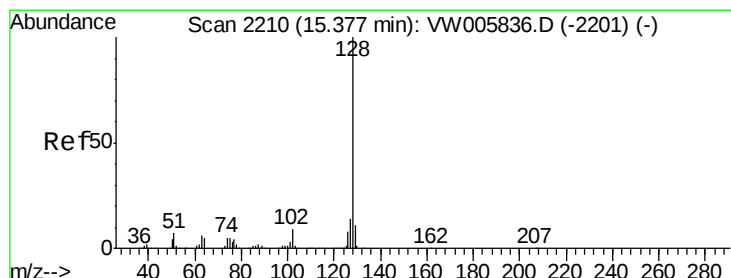
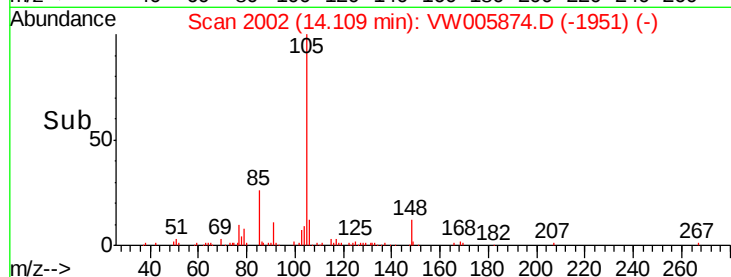
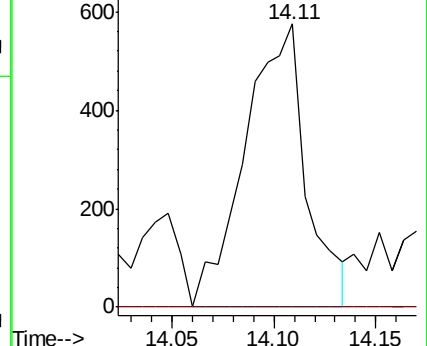
117 100

201 0.0 43.7 131.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 2.563 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.00 min

Lab File: VW005874.D

Acq: 05 Oct 2018 02:40

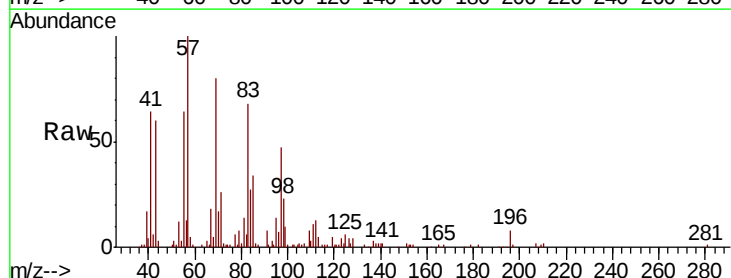
Tgt Ion:128 Resp: 1762

Ion Ratio Lower Upper

128 100

127 0.0 10.9 16.3#

129 0.0 8.9 13.3#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

