

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW031119\
 Data File : VW009097.D
 Acq On : 11 Mar 2019 19:59
 Operator : SY/VA
 Sample : K1691-05
 Misc : 6.24G/5ML/MSVOA_W/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 CL-02-030819-C

Quant Time: Mar 12 08:14:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 05:22:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	279342	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	449153	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	392883	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	162511	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	168794	60.06	ug/l	0.00
Spiked Amount			Recovery	=	120.12%	
35) Dibromofluoromethane	7.88	113	140695	52.03	ug/l	0.00
Spiked Amount			Recovery	=	104.06%	
50) Toluene-d8	10.32	98	532689	47.96	ug/l	0.00
Spiked Amount			Recovery	=	95.92%	
62) 4-Bromofluorobenzene	12.62	95	168506	38.54	ug/l	0.00
Spiked Amount			Recovery	=	77.08%	

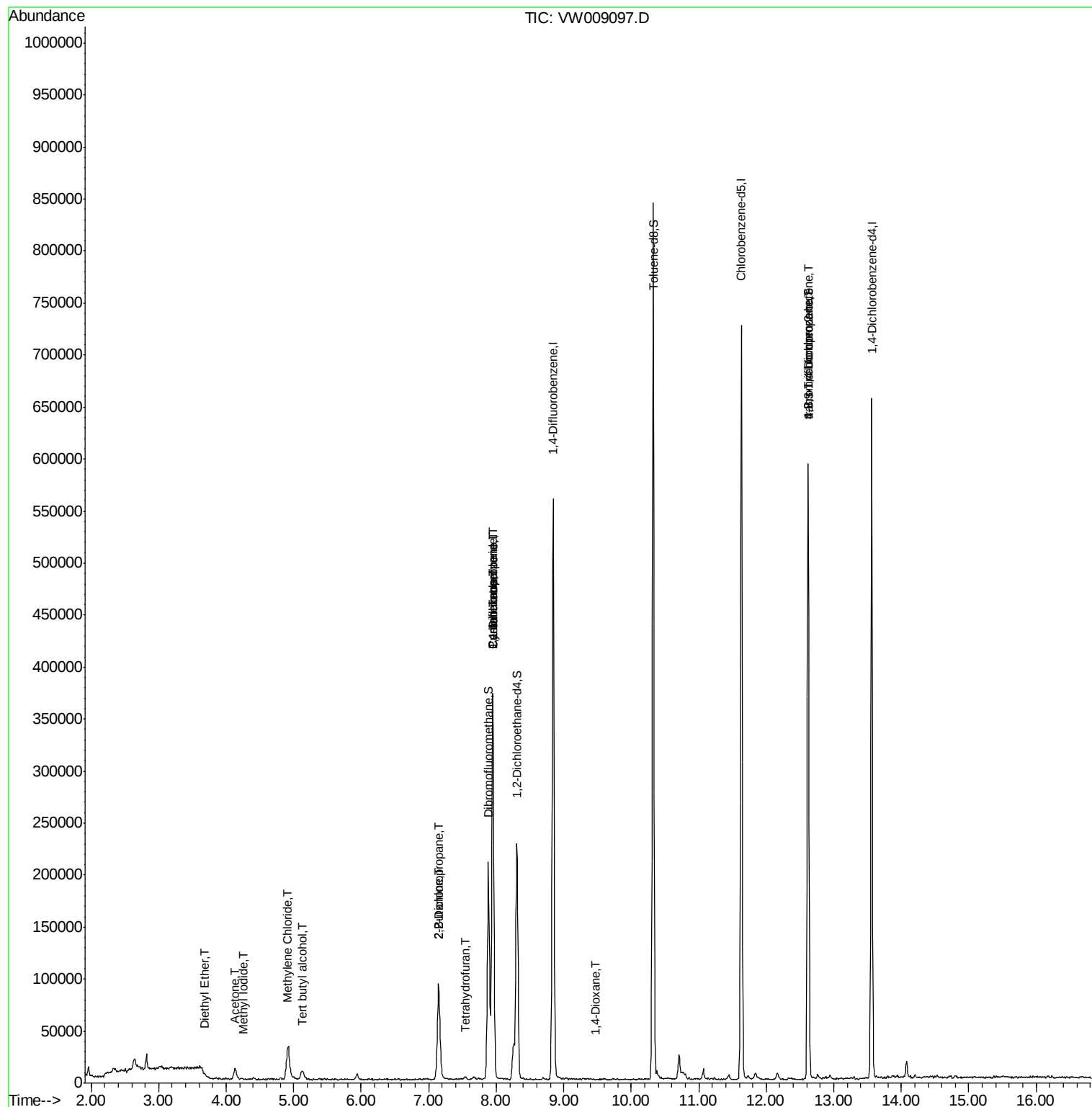
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	1730	1.211	ug/l	98
10) Methyl Iodide	4.26	142	23	3.194	ug/l #	40
11) Tert butyl alcohol	5.12	59	7856	36.477	ug/l #	85
16) Acetone	4.12	43	18959	29.894	ug/l #	89
20) Methylene Chloride	4.91	84	24928	3.286	ug/l	97
25) 2-Butanone	7.15	43	6346	7.240	ug/l	98
26) 2,2-Dichloropropane	7.15	77	6112	1.317	ug/l #	56
29) Tetrahydrofuran	7.53	42	2378	4.305	ug/l #	46
31) Cyclohexane	7.95	56	6885	1.314	ug/l #	13
36) 1,1-Dichloropropene	7.95	75	22094	4.704	ug/l #	51
38) Carbon Tetrachloride	7.95	117	27637	5.698	ug/l #	17
49) 1,4-Dioxane	9.47	88	78	3.176	ug/l #	45
76) 1,2,3-Trichloropropane	12.62	75	90029	70.118	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	90029	156.835	ug/l #	5

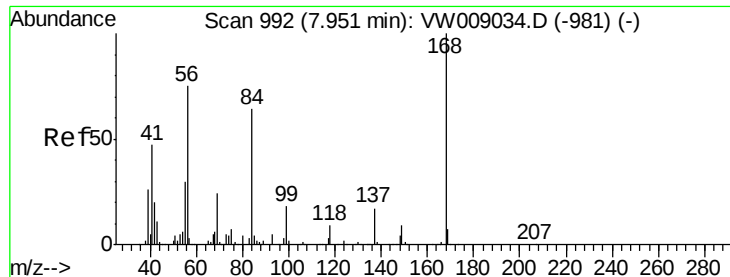
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW009097.D

Acq: 11 Mar 2019 19:59

Instrument :

MSVOA_W

ClientSampleId :

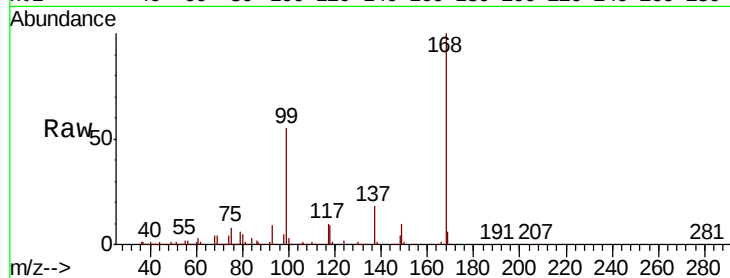
CL-02-030819-C

Tgt Ion:168 Resp: 279342

Ion Ratio Lower Upper

168 100

99 54.6 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

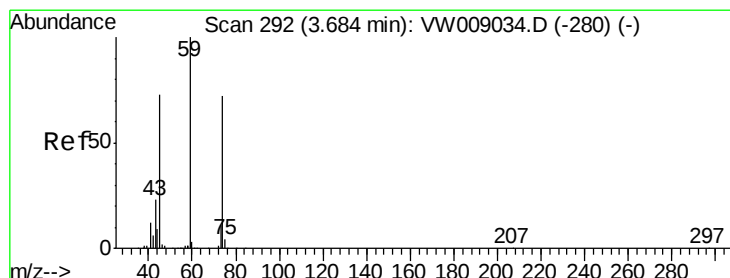
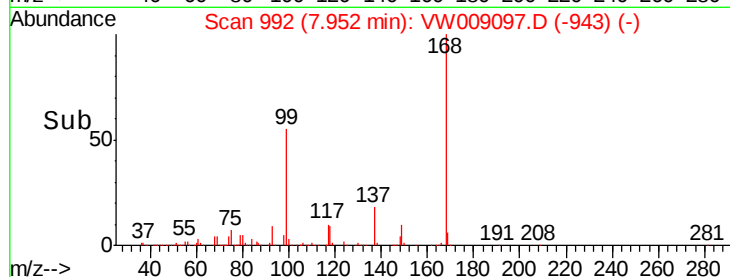
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 1.211 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW009097.D

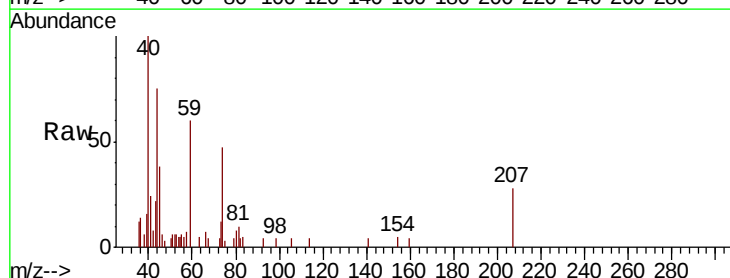
Acq: 11 Mar 2019 19:59

Tgt Ion: 74 Resp: 1730

Ion Ratio Lower Upper

74 100

45 107.2 52.3 157.1



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

800

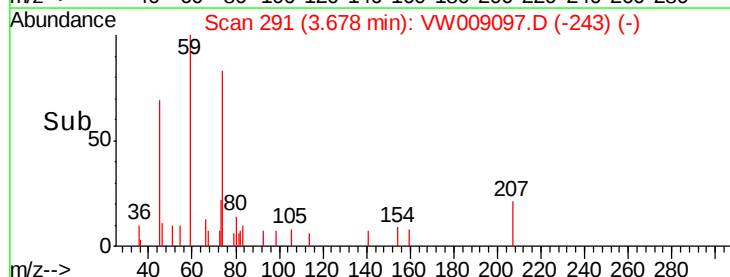
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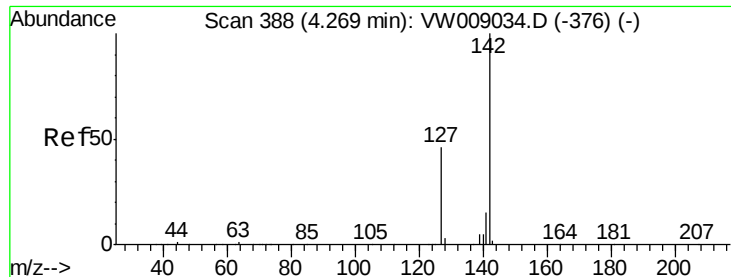
400

200

0

Time-->

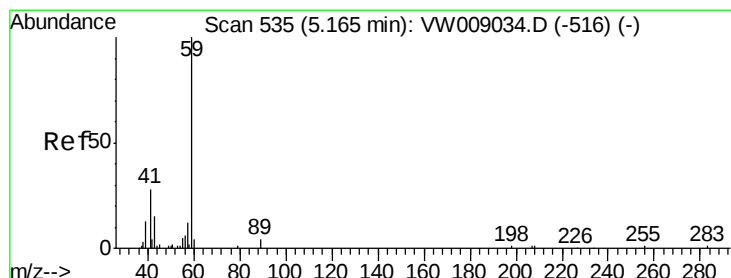
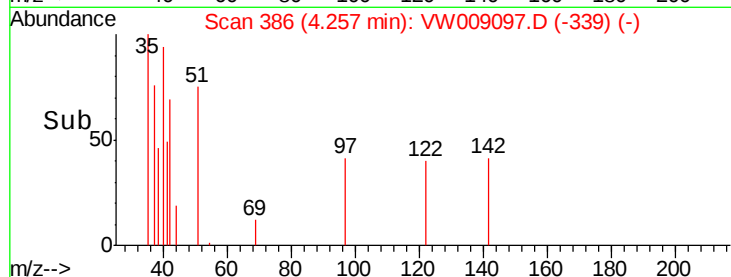
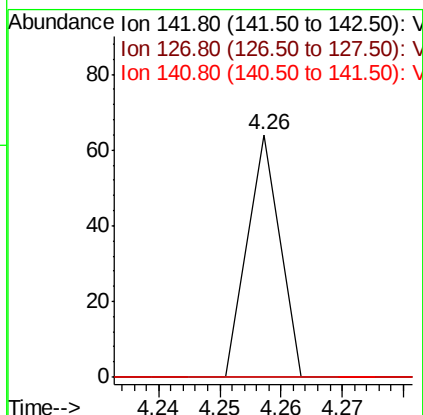
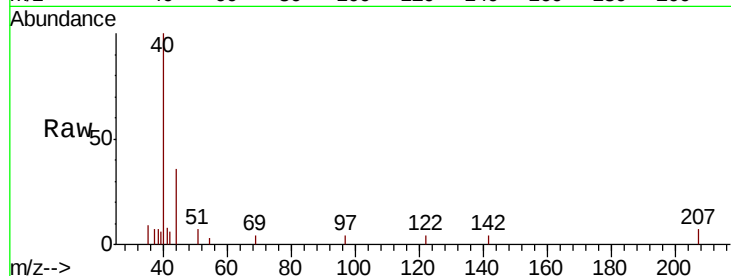




#10
Methyl Iodide
Concen: 3.194 ug/l
RT: 4.26 min Scan# 386
Delta R.T. -0.01 min
Lab File: VW009097.D
Acq: 11 Mar 2019 19:59

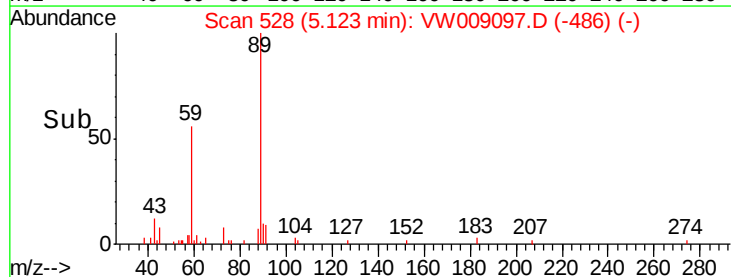
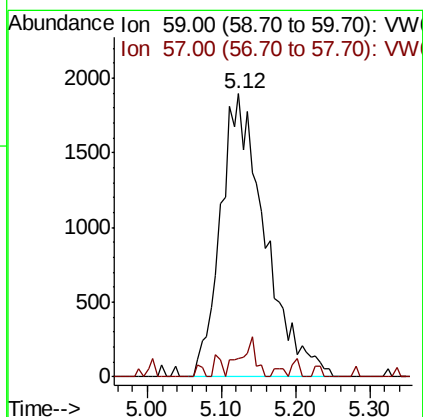
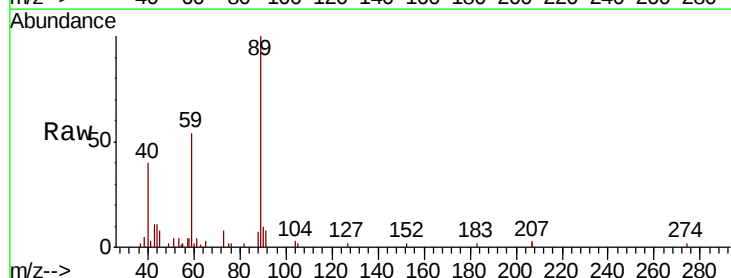
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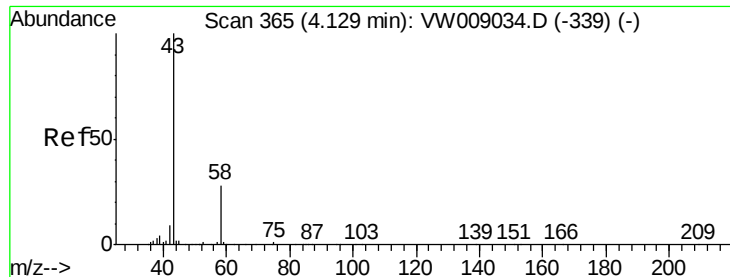
Tgt Ion	Ratio	Lower	Upper
142	100		
127	0.0	35.8	53.6#
141	0.0	11.8	17.8#



#11
Tert butyl alcohol
Concen: 36.477 ug/l
RT: 5.12 min Scan# 528
Delta R.T. -0.04 min
Lab File: VW009097.D
Acq: 11 Mar 2019 19:59

Tgt Ion	Ratio	Lower	Upper
59	100		
57	4.9	8.6	12.8#





#16

Acetone

Concen: 29.894 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.01 min

Lab File: VW009097.D

Acq: 11 Mar 2019 19:59

Instrument :

MSVOA_W

ClientSampleId :

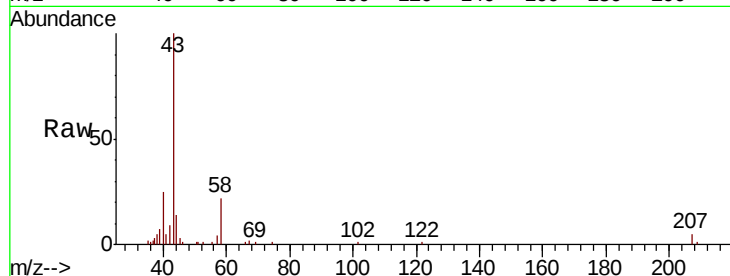
CL-02-030819-C

Tgt Ion: 43 Resp: 18959

Ion Ratio Lower Upper

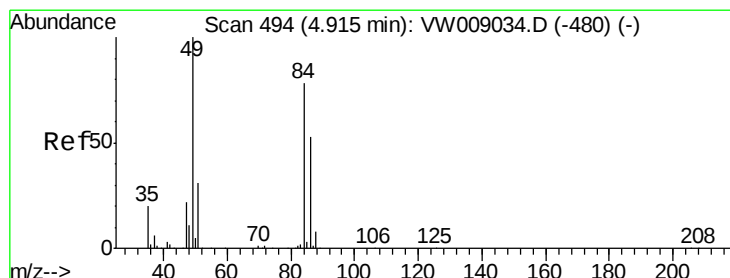
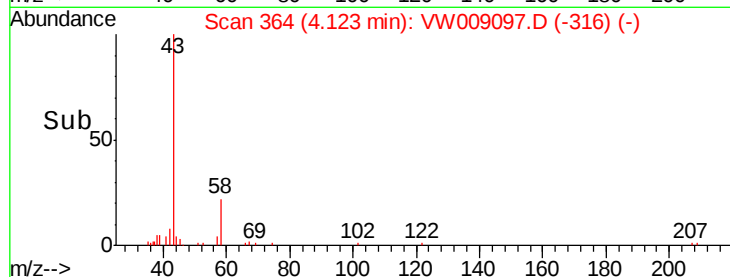
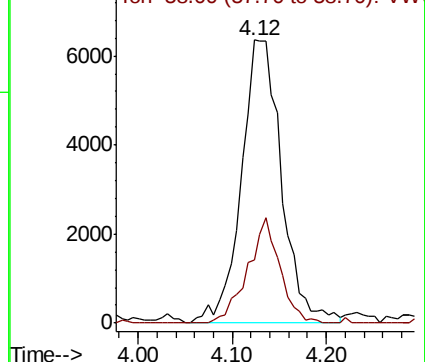
43 100

58 22.3 22.5 33.7#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#20

Methylene Chloride

Concen: 3.286 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW009097.D

Acq: 11 Mar 2019 19:59

Tgt Ion: 84 Resp: 24928

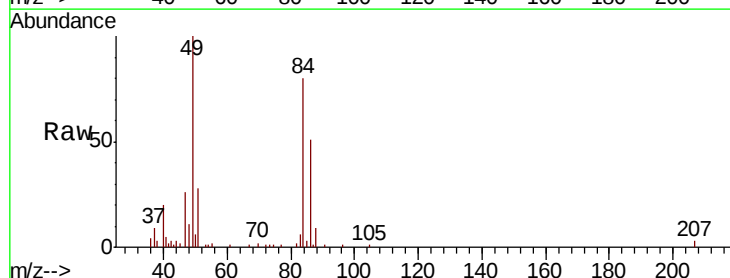
Ion Ratio Lower Upper

84 100

49 125.8 102.4 153.6

51 35.6 31.6 47.4

86 64.3 54.5 81.7

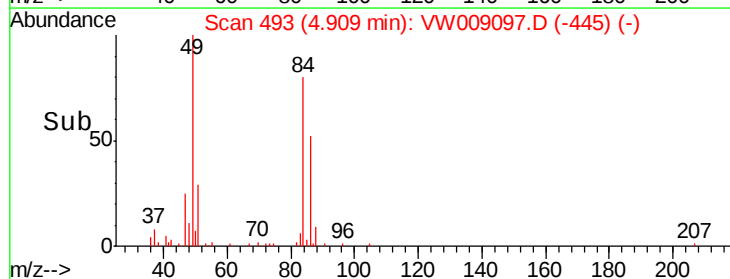
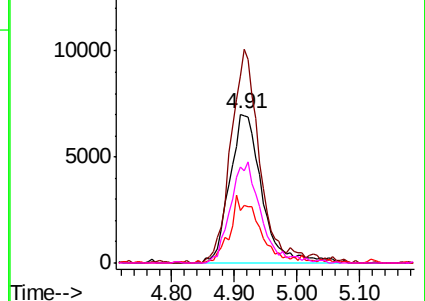


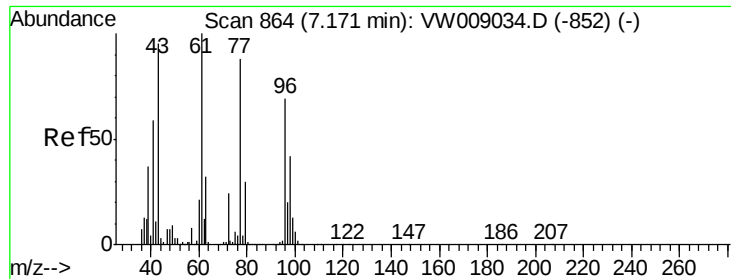
Abundance Ion 83.90 (83.60 to 84.60): VW

Ion 48.90 (48.60 to 49.60): VW

Ion 50.90 (50.60 to 51.60): VW

Ion 85.90 (85.60 to 86.60): VW





#25

2-Butanone

Concen: 7.240 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW009097.D

Acq: 11 Mar 2019 19:59

Instrument :

MSVOA_W

ClientSampleId :

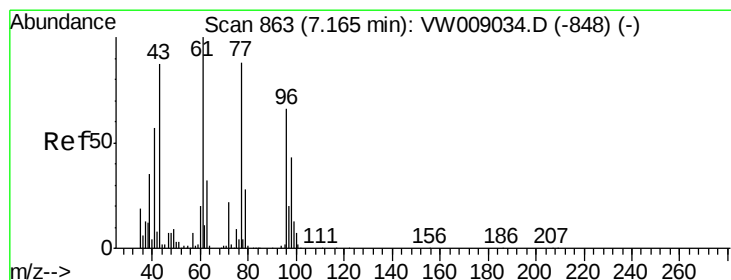
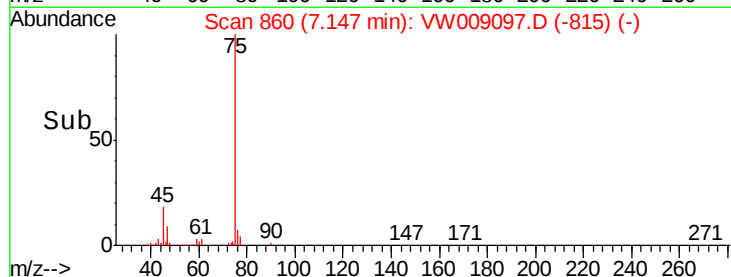
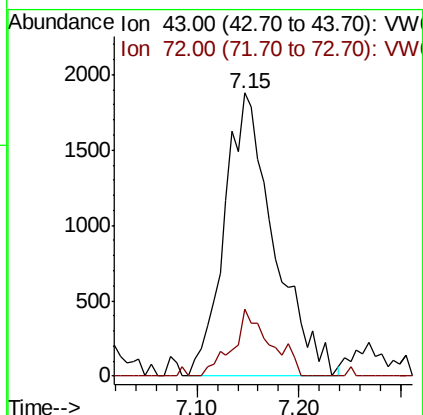
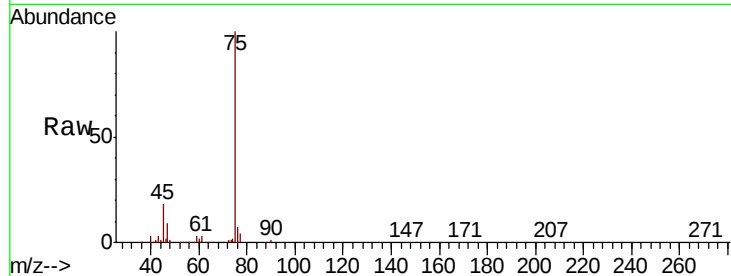
CL-02-030819-C

Tgt Ion: 43 Resp: 6346

Ion Ratio Lower Upper

43 100

72 23.9 20.0 30.0



#26

2,2-Dichloropropane

Concen: 1.317 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.02 min

Lab File: VW009097.D

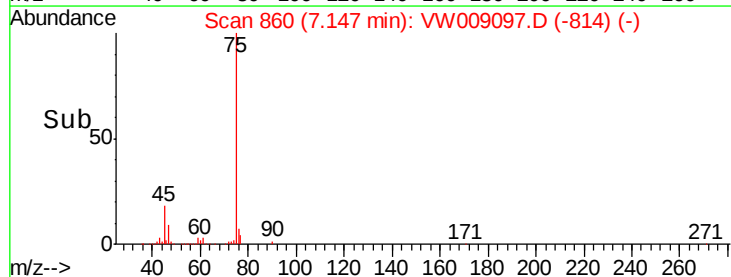
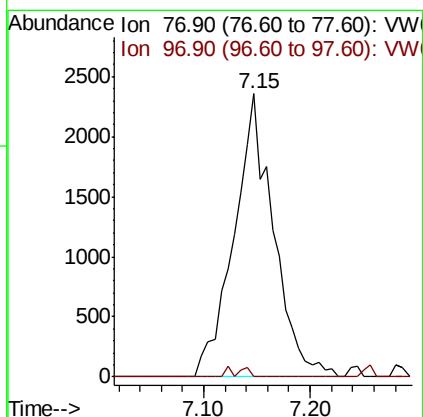
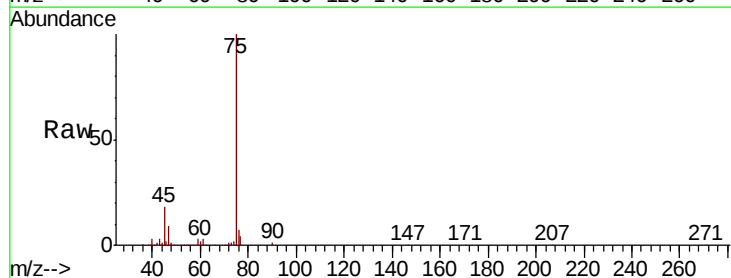
Acq: 11 Mar 2019 19:59

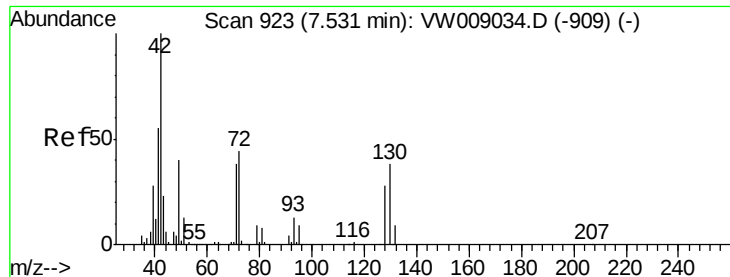
Tgt Ion: 77 Resp: 6112

Ion Ratio Lower Upper

77 100

97 0.9 10.9 32.9#

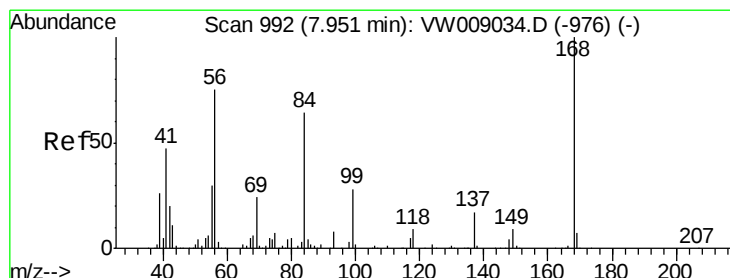
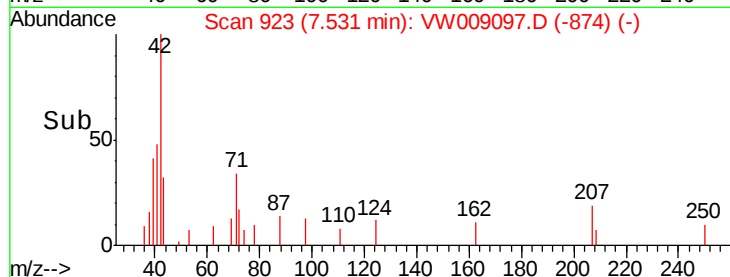
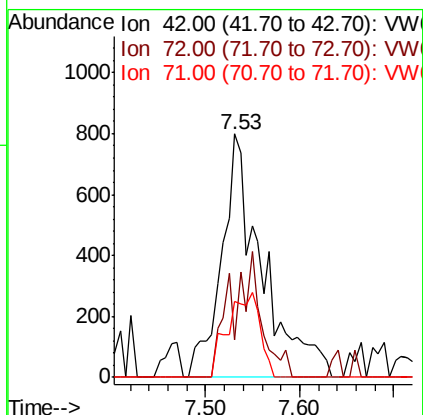
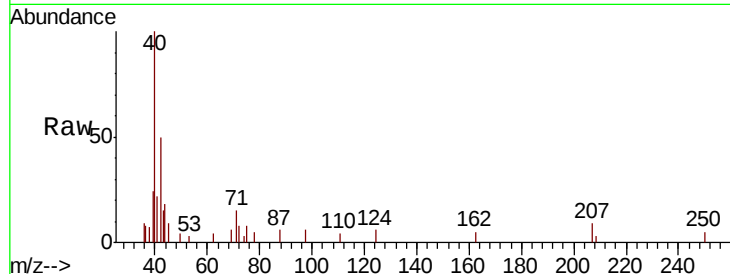




#29
Tetrahydrofuran
Concen: 4.305 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW009097.D
Acq: 11 Mar 2019 19:59

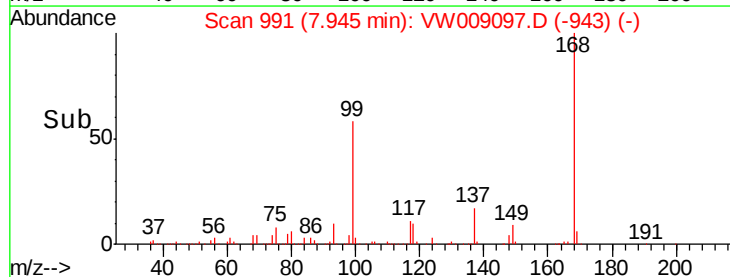
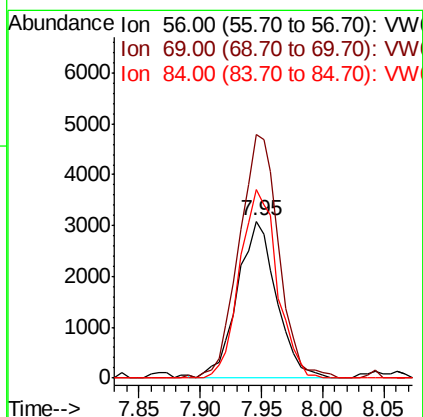
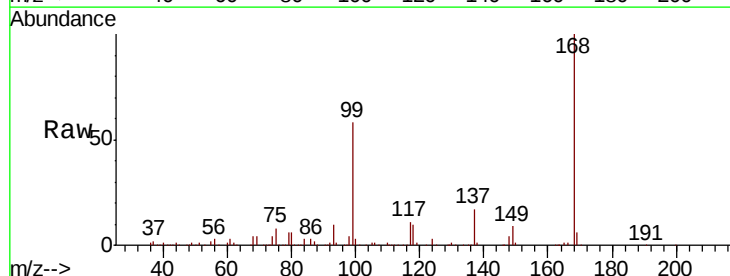
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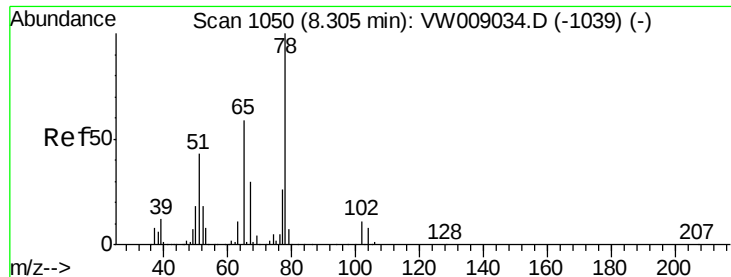
Tgt Ion: 42 Resp: 2378
Ion Ratio Lower Upper
42 100
72 12.5 32.2 48.4#
71 0.0 30.7 46.1#



#31
Cyclohexane
Concen: 1.314 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW009097.D
Acq: 11 Mar 2019 19:59

Tgt Ion: 56 Resp: 6885
Ion Ratio Lower Upper
56 100
69 155.5 25.5 38.3#
84 120.1 68.6 103.0#

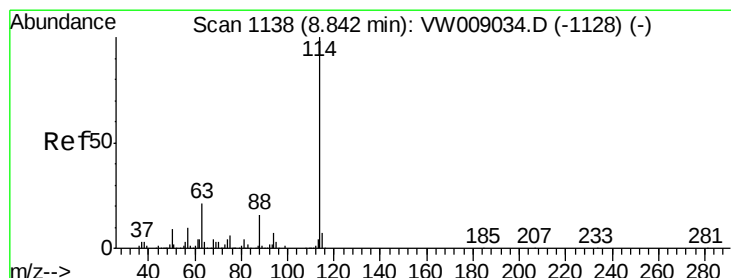
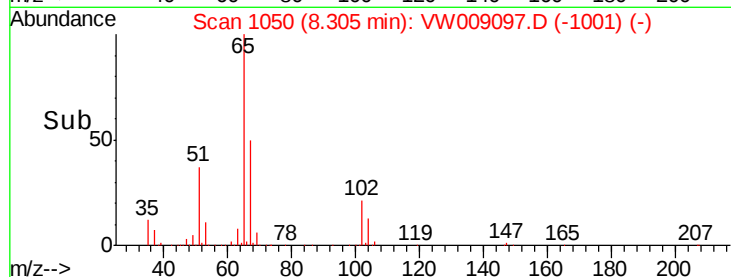
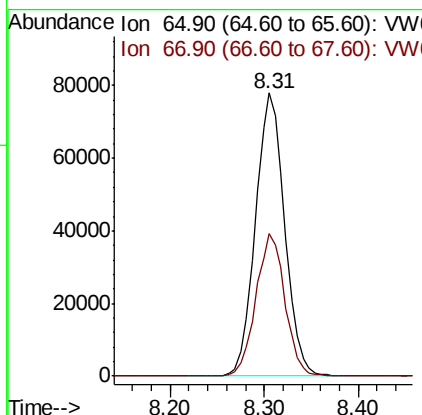
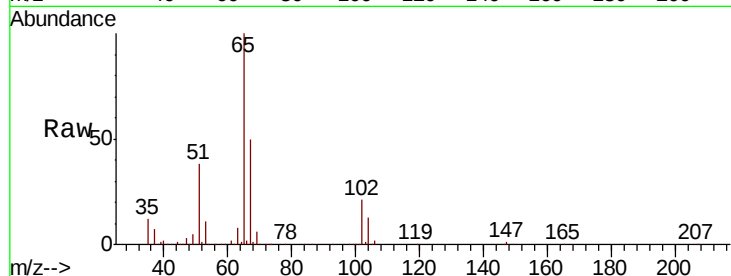




#33
 1,2-Dichloroethane-d4
 Concen: 60.059 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW009097.D
 Acq: 11 Mar 2019 19:59

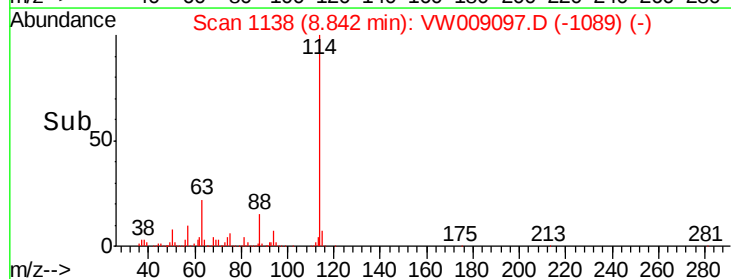
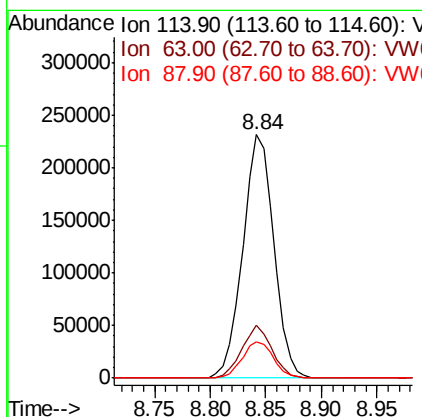
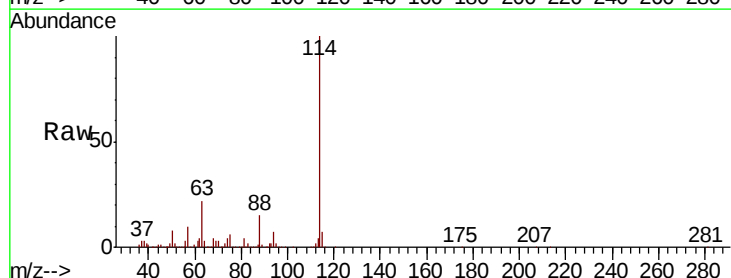
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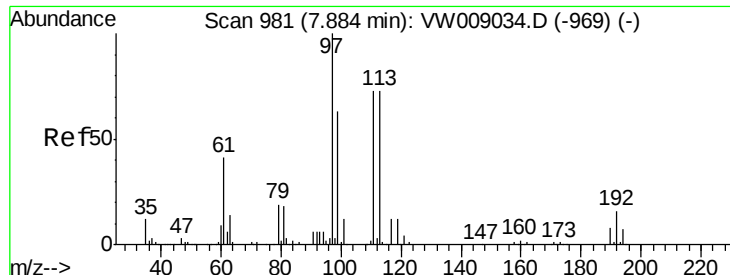
Tgt Ion: 65 Resp: 168794
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW009097.D
 Acq: 11 Mar 2019 19:59

Tgt Ion: 114 Resp: 449153
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 41.2
 88 14.7 0.0 31.2

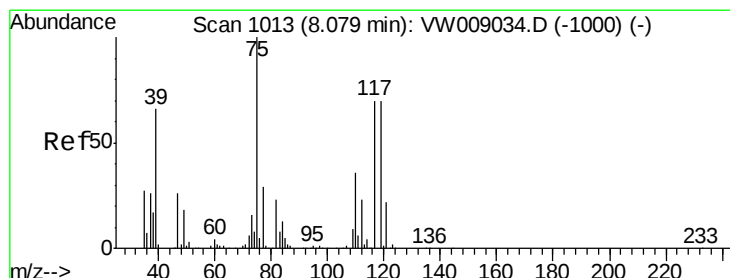
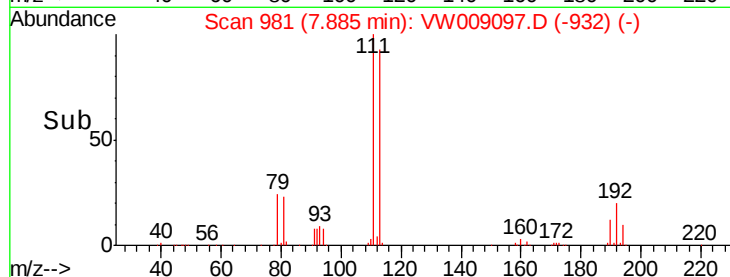
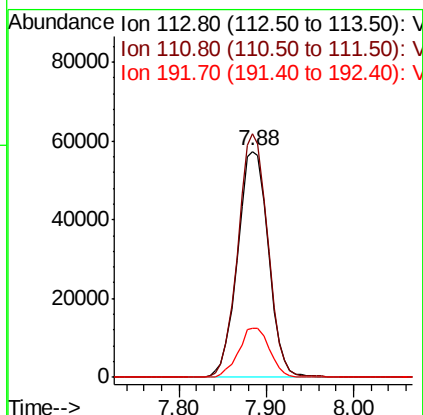
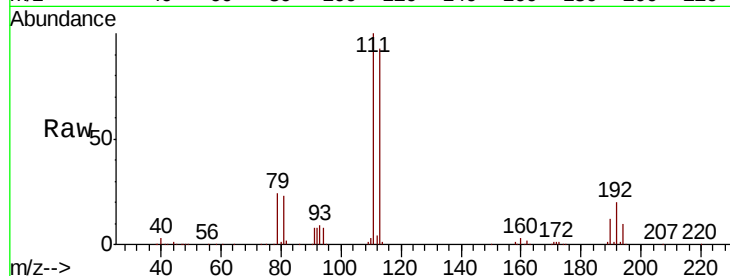




#35
 Dibromofluoromethane
 Concen: 52.026 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW009097.D
 Acq: 11 Mar 2019 19:59

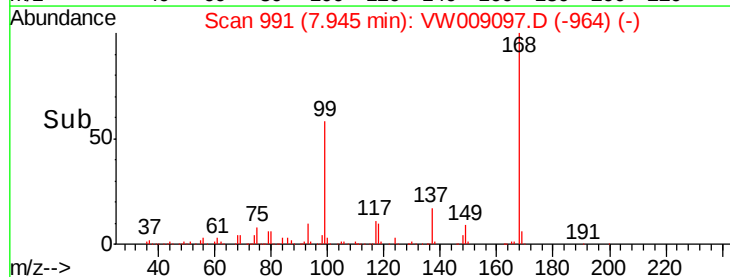
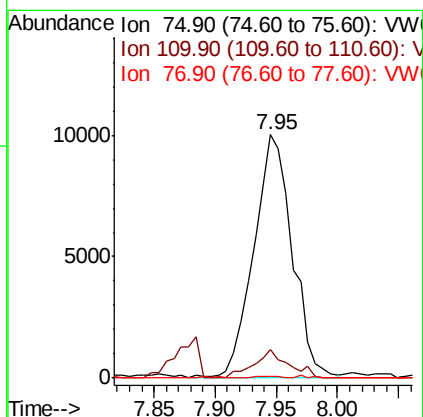
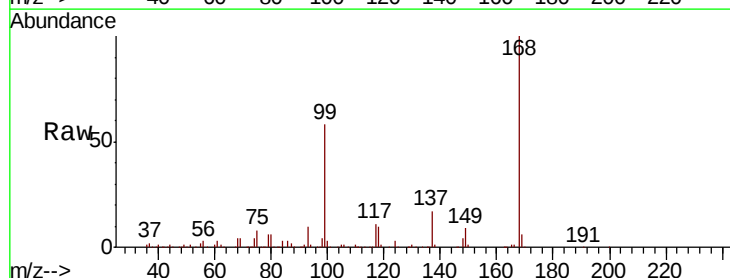
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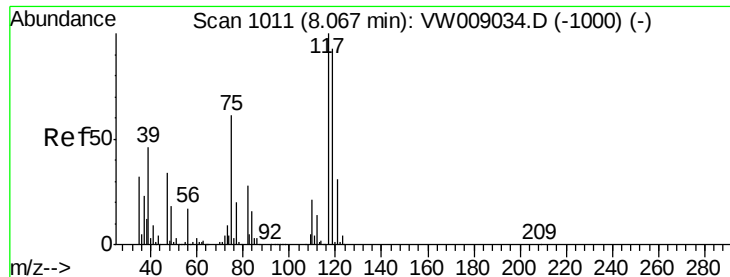
Tgt Ion: 113 Resp: 140695
 Ion Ratio Lower Upper
 113 100
 111 104.6 81.0 121.4
 192 21.8 17.1 25.7



#36
 1,1-Dichloropropene
 Concen: 4.704 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW009097.D
 Acq: 11 Mar 2019 19:59

Tgt Ion: 75 Resp: 22094
 Ion Ratio Lower Upper
 75 100
 110 10.6 17.6 52.9#
 77 0.5 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 5.698 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.12 min

Lab File: VW009097.D

Acq: 11 Mar 2019 19:59

Instrument :

MSVOA_W

ClientSampleId :

CL-02-030819-C

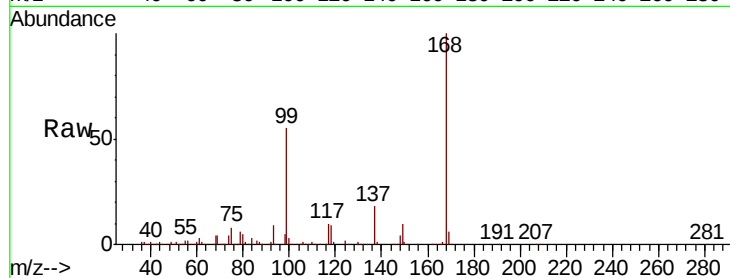
Tgt Ion:117 Resp: 27637

Ion Ratio Lower Upper

117 100

119 5.0 74.6 112.0#

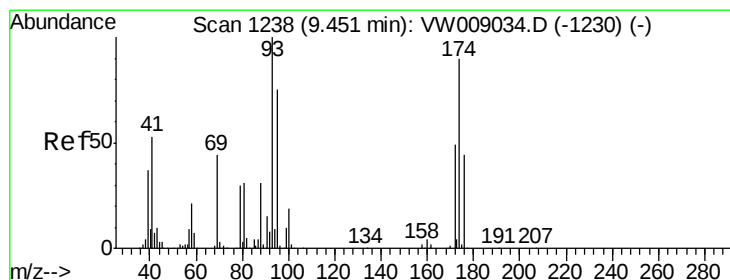
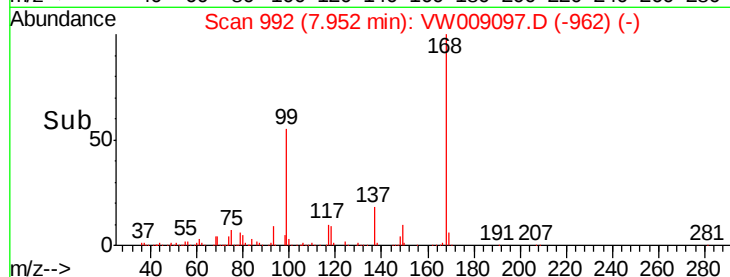
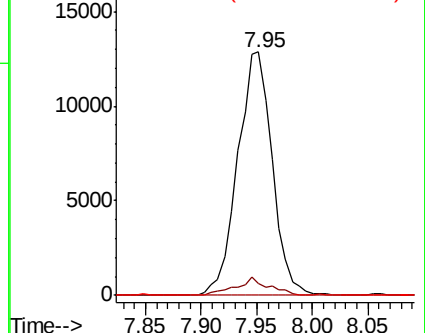
121 0.0 24.7 37.1#



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



#49

1,4-Dioxane

Concen: 3.176 ug/l

RT: 9.47 min Scan# 1241

Delta R.T. 0.02 min

Lab File: VW009097.D

Acq: 11 Mar 2019 19:59

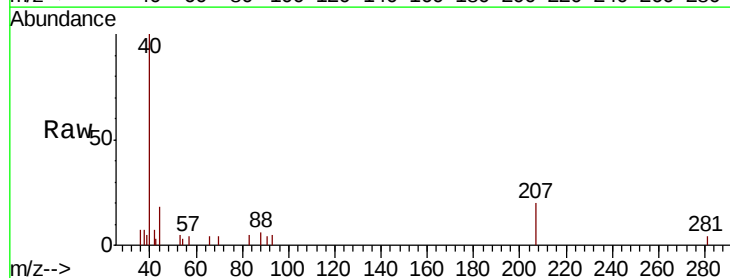
Tgt Ion: 88 Resp: 78

Ion Ratio Lower Upper

88 100

43 66.7 29.0 43.4#

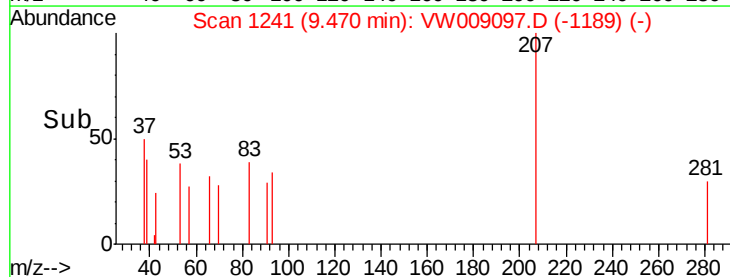
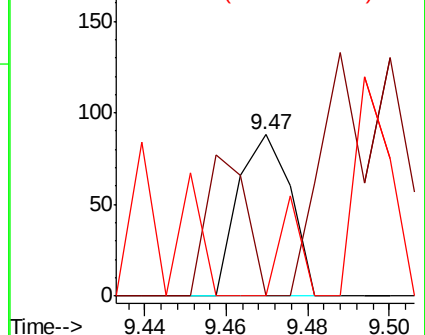
58 25.6 59.2 88.8#

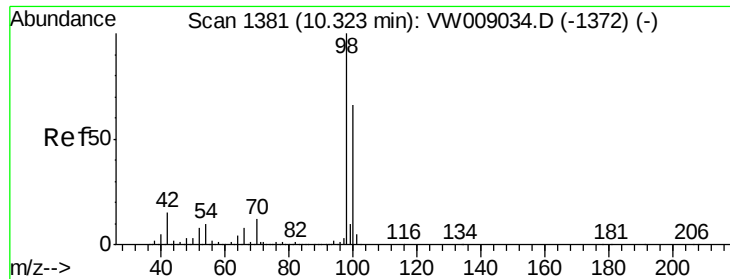


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 47.960 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009097.D

Acq: 11 Mar 2019 19:59

Instrument :

MSVOA_W

ClientSampleId :

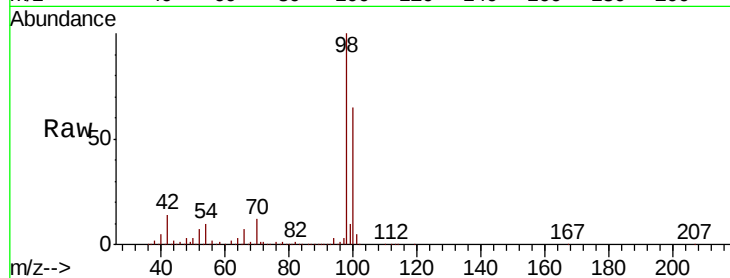
CL-02-030819-C

Tgt Ion: 98 Resp: 532689

Ion Ratio Lower Upper

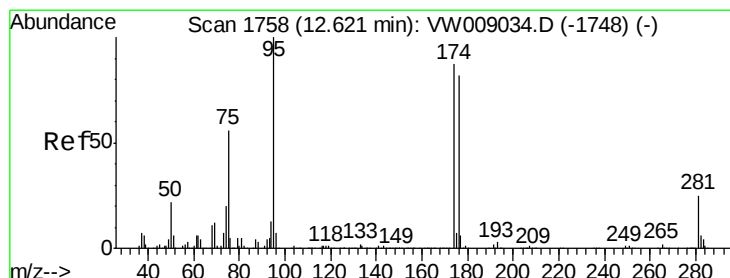
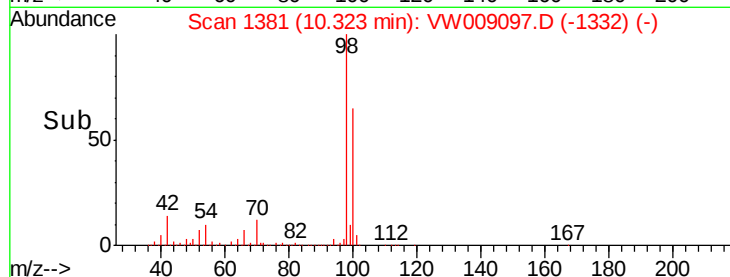
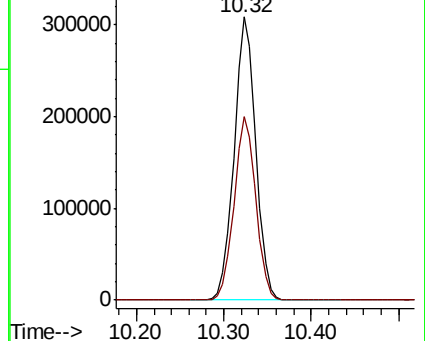
98 100

100 65.0 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#62

4-Bromofluorobenzene

Concen: 38.539 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW009097.D

Acq: 11 Mar 2019 19:59

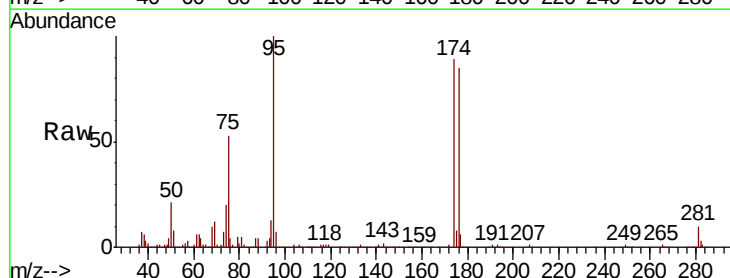
Tgt Ion: 95 Resp: 168506

Ion Ratio Lower Upper

95 100

174 85.4 0.0 167.0

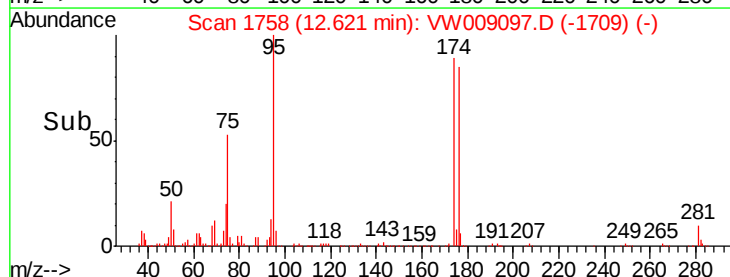
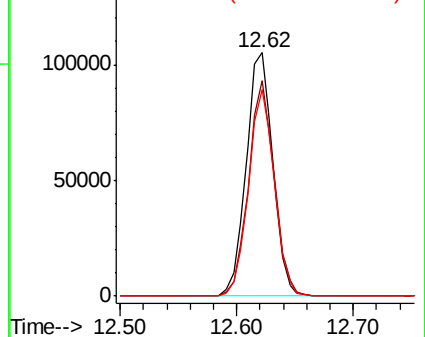
176 82.0 0.0 159.4

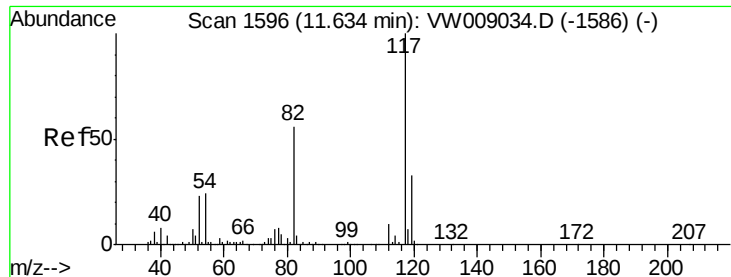


Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

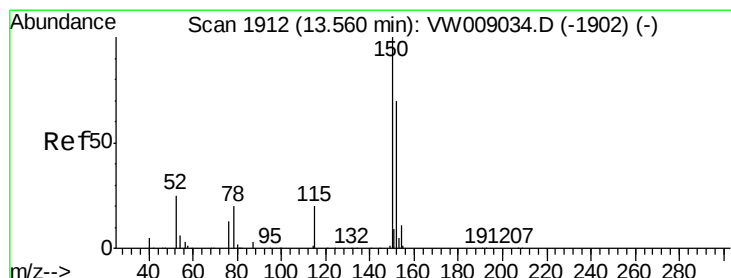
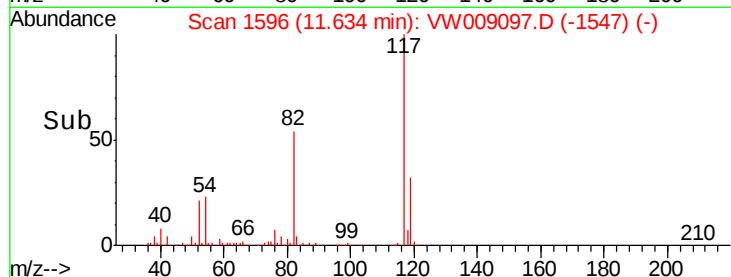
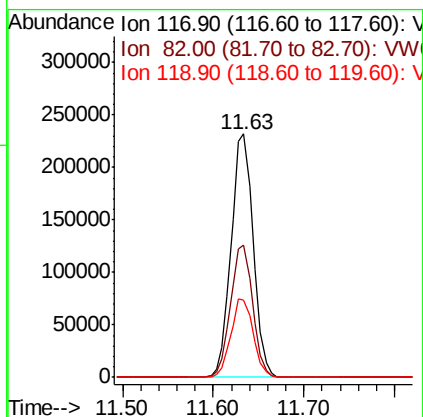
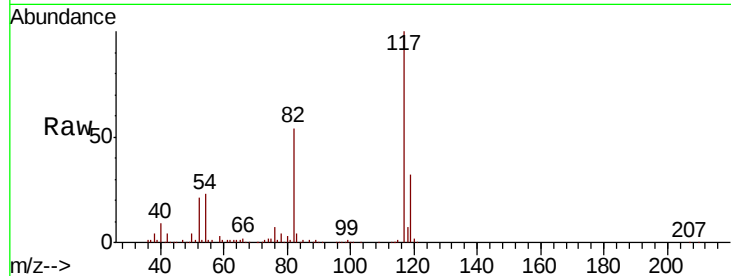




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW009097.D
Acq: 11 Mar 2019 19:59

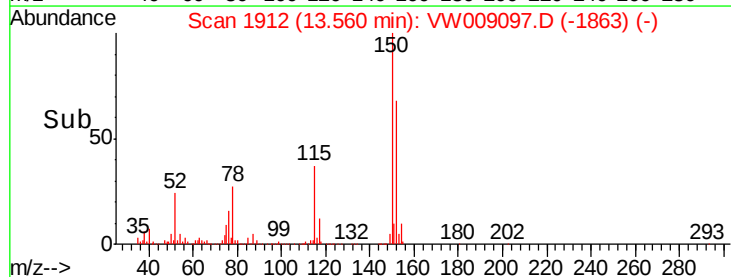
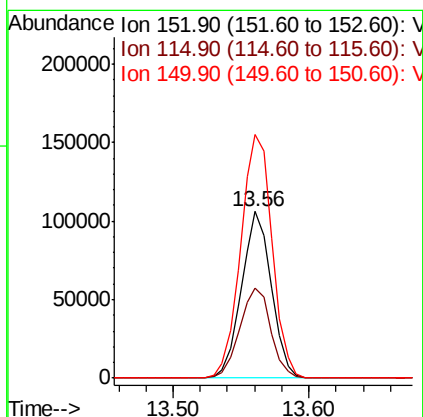
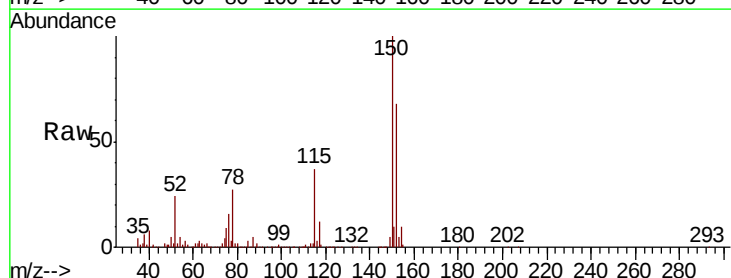
Instrument :
MSVOA_W
ClientSampleId :
CL-02-030819-C

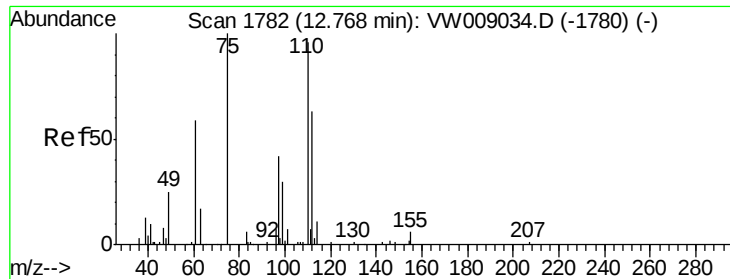
Tgt Ion:117 Resp: 392883
Ion Ratio Lower Upper
117 100
82 54.4 45.0 67.6
119 31.8 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW009097.D
Acq: 11 Mar 2019 19:59

Tgt Ion:152 Resp: 162511
Ion Ratio Lower Upper
152 100
115 56.5 28.9 86.7
150 153.7 0.0 349.2





#76

1,2,3-Trichloropropane

Concen: 70.118 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW009097.D

Acq: 11 Mar 2019 19:59

Instrument :

MSVOA_W

ClientSampleId :

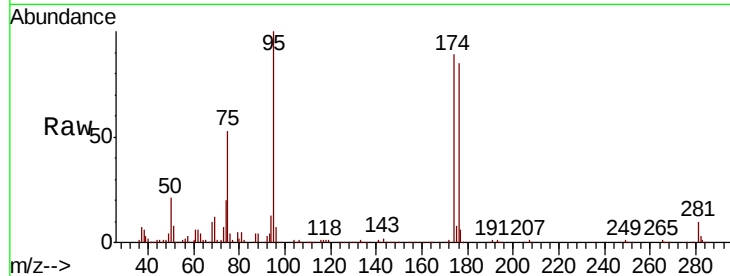
CL-02-030819-C

Tgt Ion: 75 Resp: 90029

Ion Ratio Lower Upper

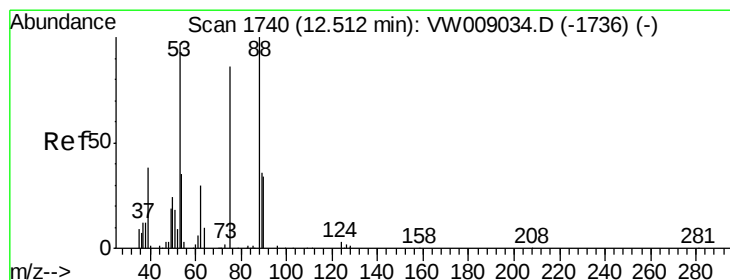
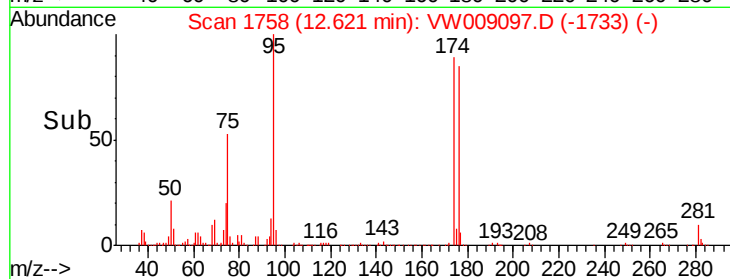
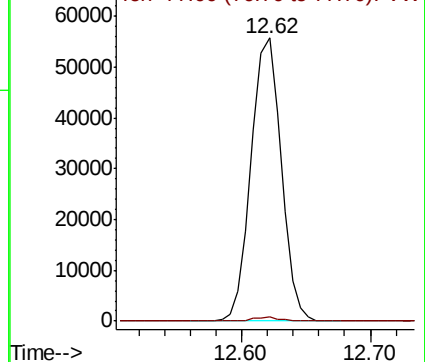
75 100

77 1.4 186.7 560.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#81

trans-1,4-Dichloro-2-butene

Concen: 156.835 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW009097.D

Acq: 11 Mar 2019 19:59

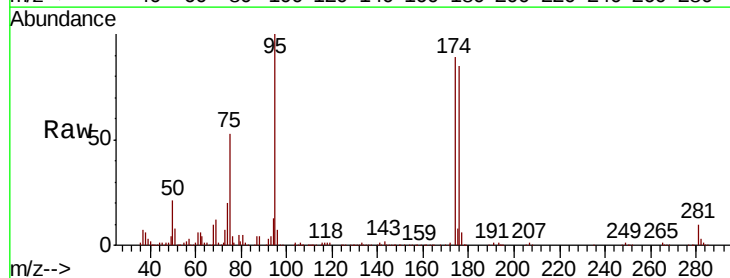
Tgt Ion: 75 Resp: 90029

Ion Ratio Lower Upper

75 100

53 0.3 90.5 135.7#

89 0.1 37.5 56.3#



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

