

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW053019\
 Data File : VW010625.D
 Acq On : 30 May 2019 20:06
 Operator : SY/VA
 Sample : K3097-14
 Misc : 5.08G/5ML/MSVOA W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 0434-HR-14(HACKENSACK)

Quant Time: May 31 07:46:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W052019S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 21 06:38:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	111030	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	200632	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	177753	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	76980	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	67568	58.96	ug/l	0.00
Spiked Amount			Recovery	=	117.92%	
35) Dibromofluoromethane	7.88	113	61225	50.29	ug/l	0.00
Spiked Amount			Recovery	=	100.58%	
50) Toluene-d8	10.32	98	246885	53.09	ug/l	0.00
Spiked Amount			Recovery	=	106.18%	
62) 4-Bromofluorobenzene	12.62	95	89542	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	

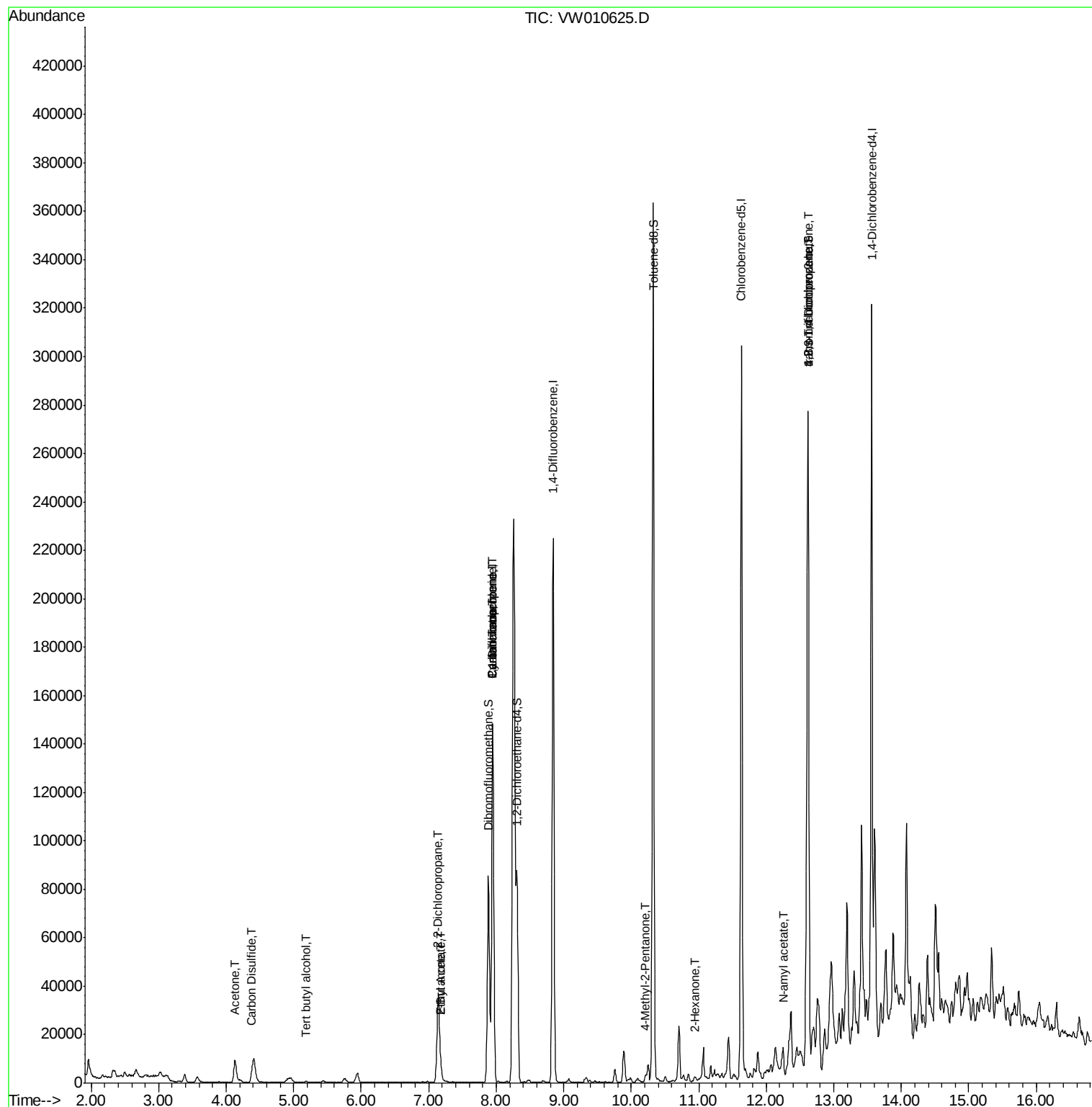
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	164	Below Cal	#	42
11) Tert butyl alcohol	5.18	59	845	8.197	ug/l #	71
13) Acrolein	3.92	56	368	Below Cal	#	31
16) Acetone	4.13	43	16713	71.445	ug/l	94
17) Carbon Disulfide	4.37	76	5320	1.521	ug/l	98
20) Methylene Chloride	4.92	84	901	Below Cal	#	84
25) 2-Butanone	7.18	43	7070	21.119	ug/l	94
26) 2,2-Dichloropropane	7.14	77	2513	1.270	ug/l #	52
31) Cyclohexane	7.95	56	2507	1.152	ug/l #	17
36) 1,1-Dichloropropene	7.95	75	8569	4.585	ug/l #	48
37) Ethyl Acetate	7.18	43	7070	8.896	ug/l #	67
38) Carbon Tetrachloride	7.95	117	11763	5.834	ug/l #	15
51) 4-Methyl-2-Pentanone	10.21	43	2007	2.494	ug/l	99
59) 2-Hexanone	10.94	43	948	1.652	ug/l #	22
74) N-amyl acetate	12.25	43	2565	1.832	ug/l #	72
76) 1,2,3-Trichloropropane	12.62	75	41862	53.573	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	41862	111.809	ug/l #	14

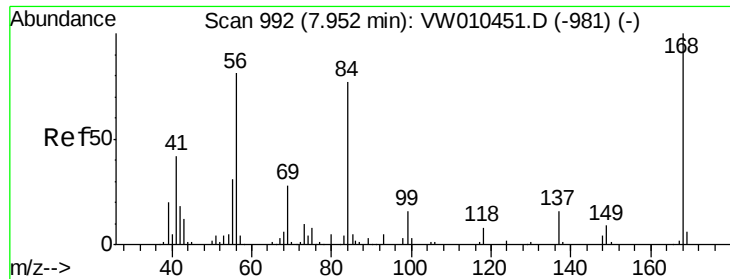
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 21 06:38:43 2019
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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: VW010625.D

Acq: 30 May 2019 20:06

Instrument :

MSVOA_W

ClientSampleId :

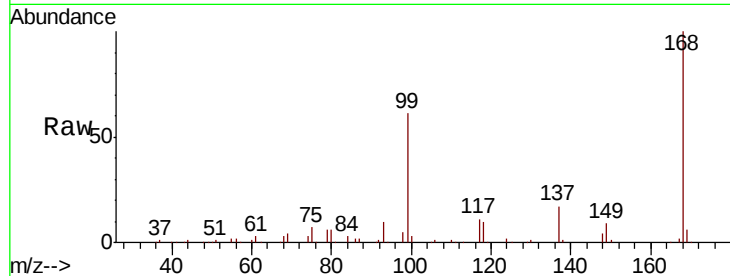
0434-HR-14(HACKENSACK)

Tot Ion:168 Resp: 111030

Ion Ratio Lower Upper

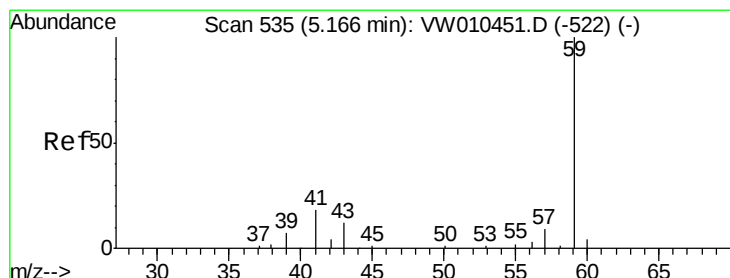
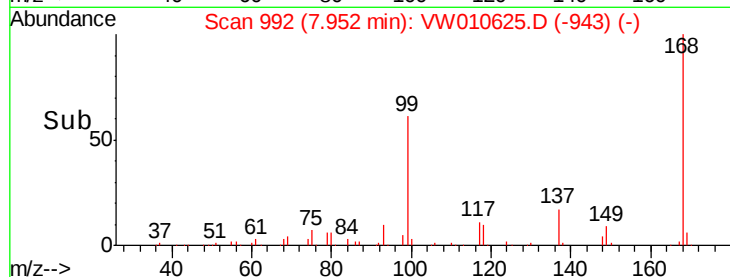
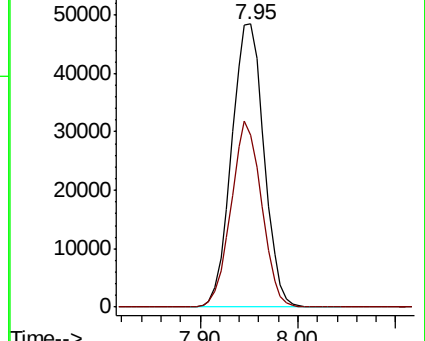
168 100

99 60.6 46.1 69.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 8.197 ug/l

RT: 5.18 min Scan# 537

Delta R.T. 0.01 min

Lab File: VW010625.D

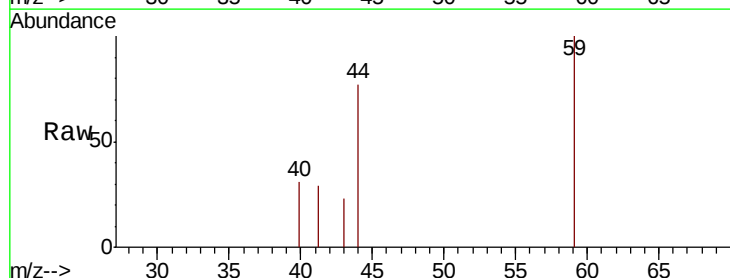
Acq: 30 May 2019 20:06

Tgt Ion: 59 Resp: 845

Ion Ratio Lower Upper

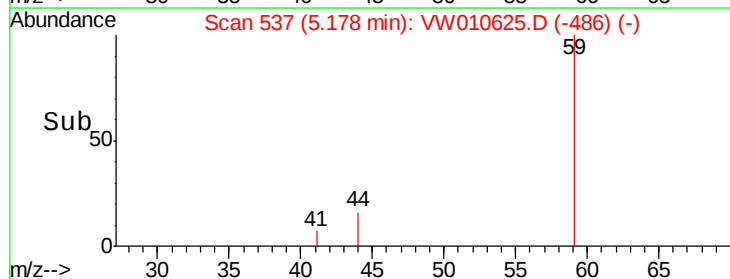
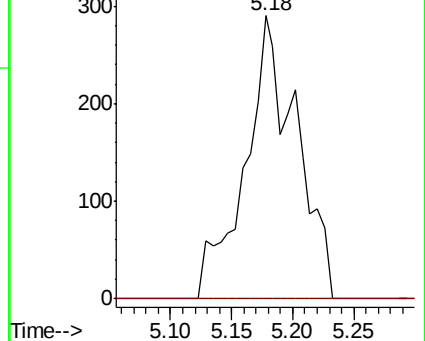
59 100

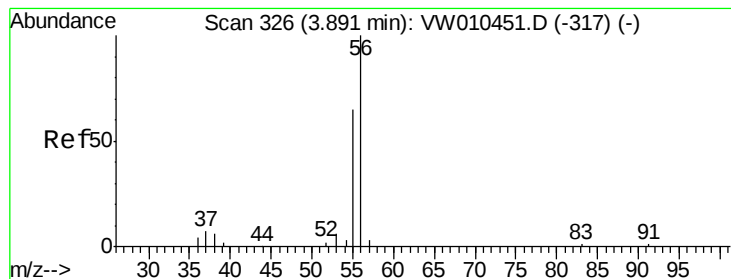
57 0.0 8.8 13.2#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: Below Cal

RT: 3.92 min Scan# 330

Delta R.T. 0.02 min

Lab File: VW010625.D

Acq: 30 May 2019 20:06

Instrument :

MSVOA_W

ClientSampleId :

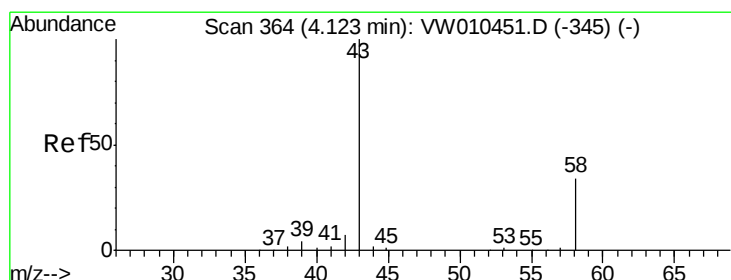
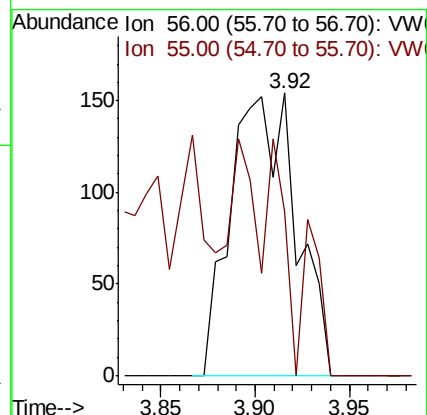
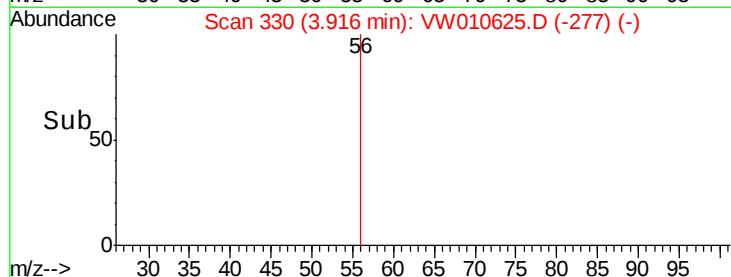
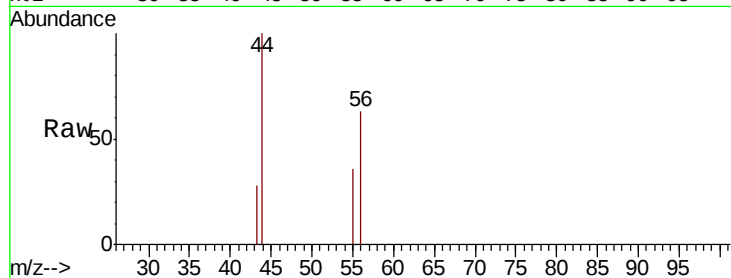
0434-HR-14(HACKENSACK)

Tot Ion: 56 Resp: 368

Ion Ratio Lower Upper

56 100

55 14.7 57.9 86.9#



#16

Acetone

Concen: 71.445 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.01 min

Lab File: VW010625.D

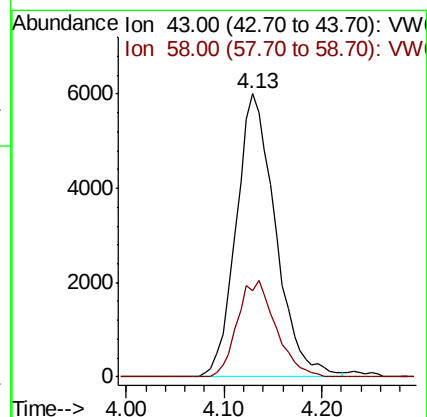
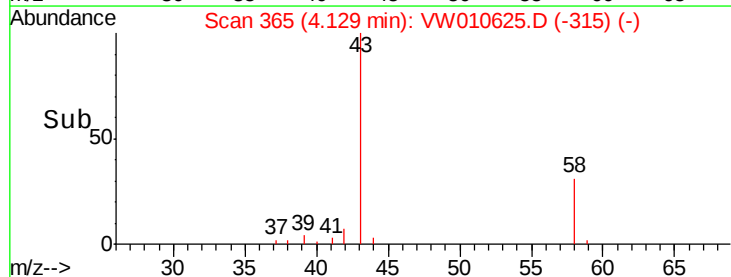
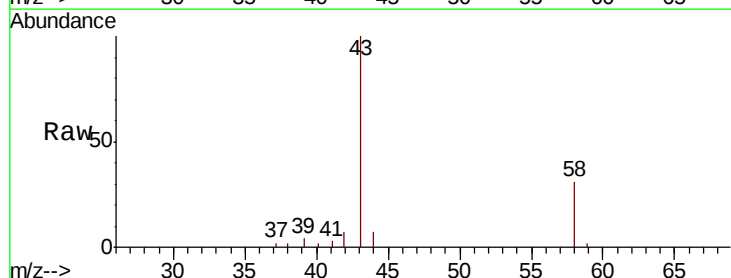
Acq: 30 May 2019 20:06

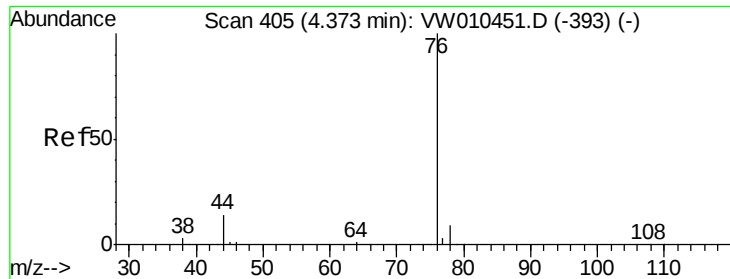
Tgt Ion: 43 Resp: 16713

Ion Ratio Lower Upper

43 100

58 30.6 27.0 40.4





#17

Carbon Disulfide

Concen: 1.521 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.00 min

Lab File: VW010625.D

Acq: 30 May 2019 20:06

Instrument :

MSVOA_W

ClientSampleId :

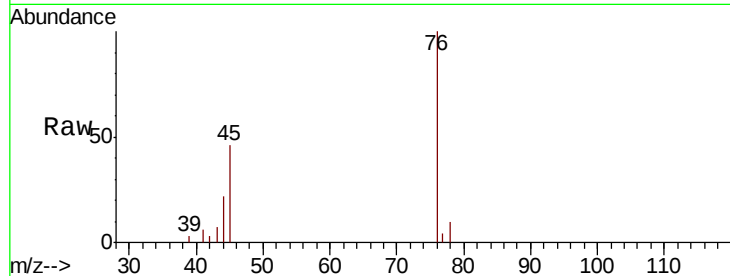
0434-HR-14(HACKENSACK)

Tot Ion: 76 Resp: 5320

Ion Ratio Lower Upper

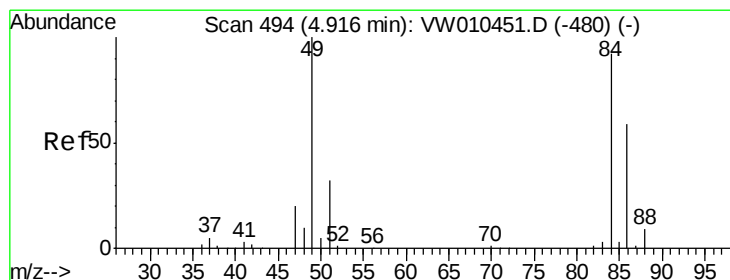
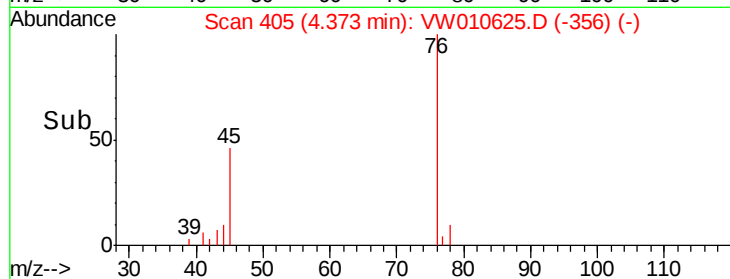
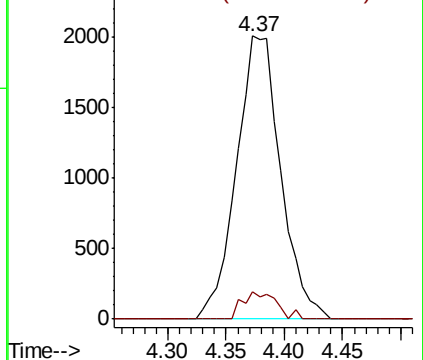
76 100

78 9.6 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#20

Methylene Chloride

Concen: Below Cal

RT: 4.92 min Scan# 495

Delta R.T. 0.01 min

Lab File: VW010625.D

Acq: 30 May 2019 20:06

Tgt Ion: 84 Resp: 901

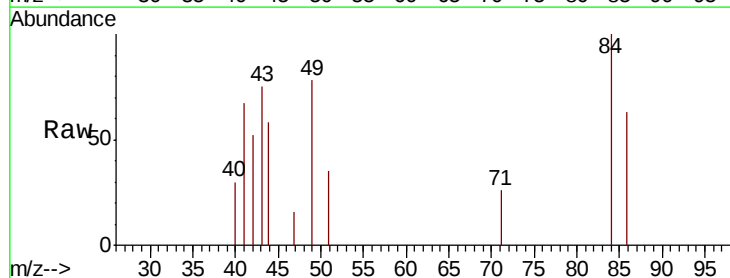
Ion Ratio Lower Upper

84 100

49 77.8 87.2 130.8#

51 34.7 27.7 41.5

86 62.9 51.4 77.0

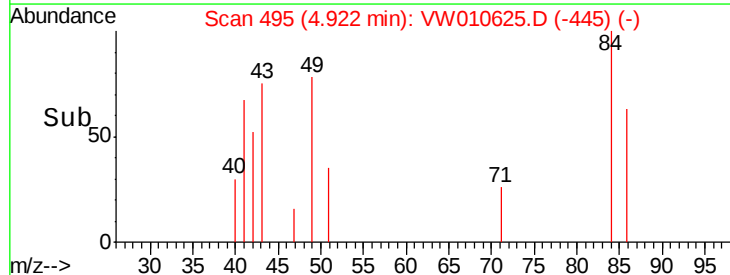
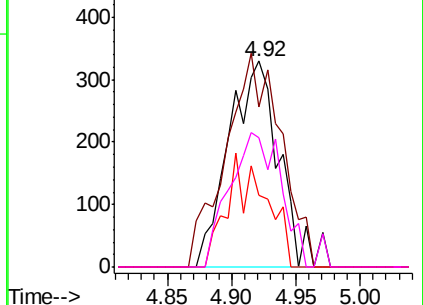


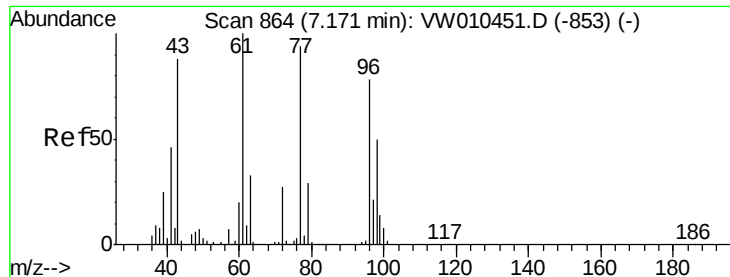
Abundance Ion 83.90 (83.60 to 84.60): VW

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: 21.119 ug/l

RT: 7.18 min Scan# 866

Delta R.T. 0.01 min

Lab File: VW010625.D

Acq: 30 May 2019 20:06

Instrument :

MSVOA_W

ClientSampleId :

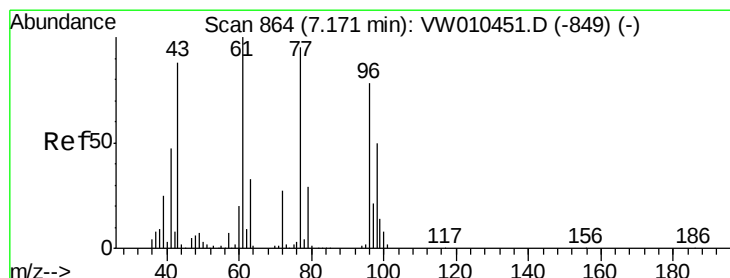
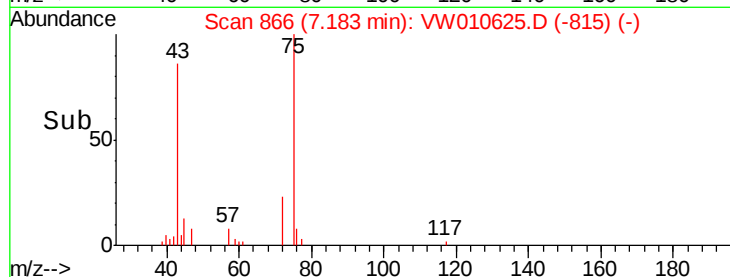
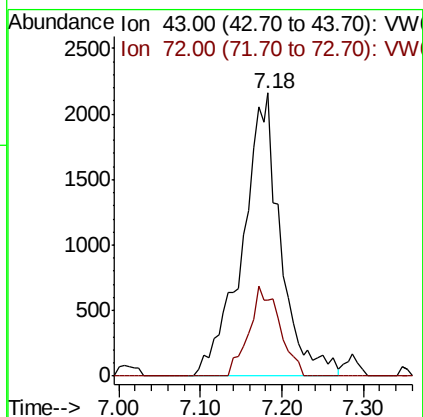
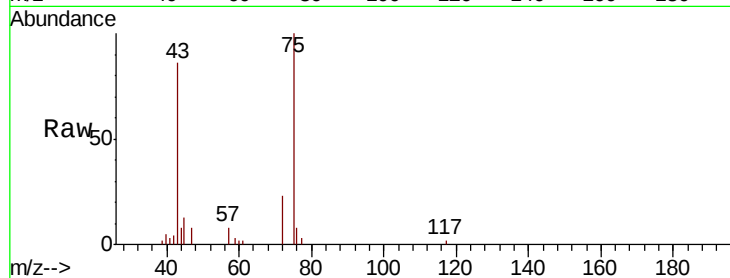
0434-HR-14(HACKENSACK)

Tot Ion: 43 Resp: 7070

Ion Ratio Lower Upper

43 100

72 26.9 24.1 36.1



#26

2,2-Dichloropropane

Concen: 1.270 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.03 min

Lab File: VW010625.D

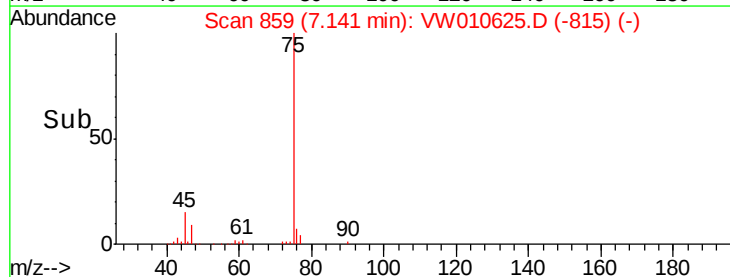
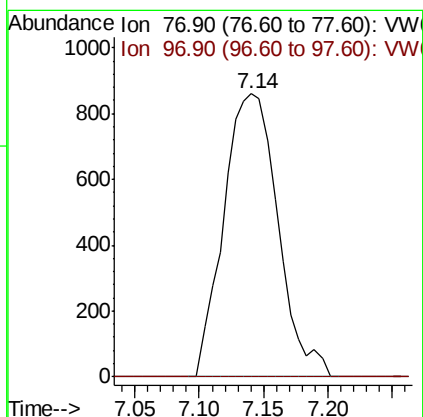
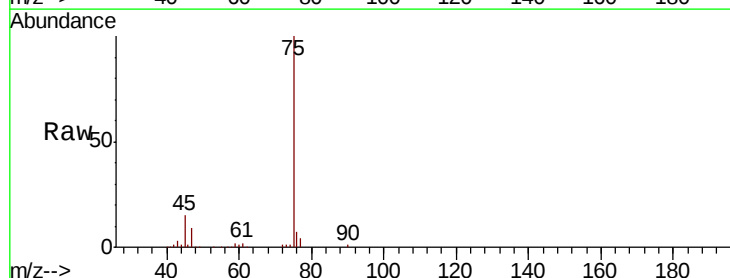
Acq: 30 May 2019 20:06

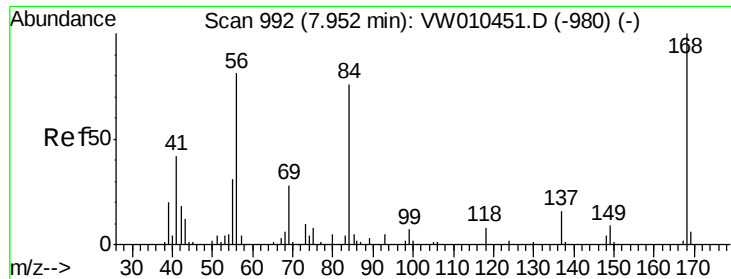
Tgt Ion: 77 Resp: 2513

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#

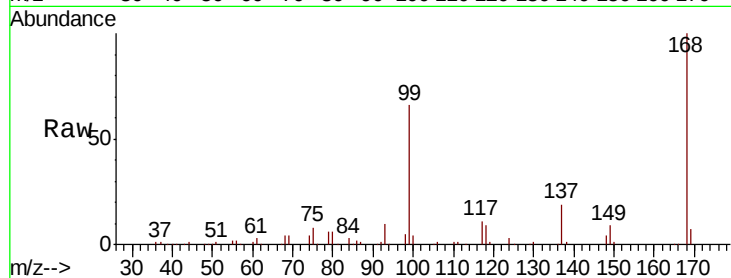




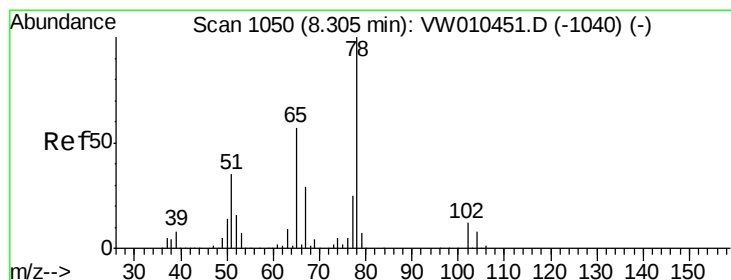
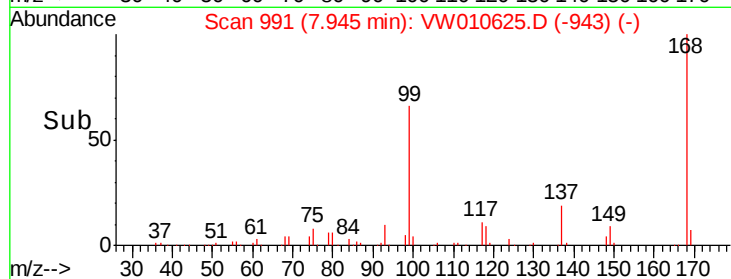
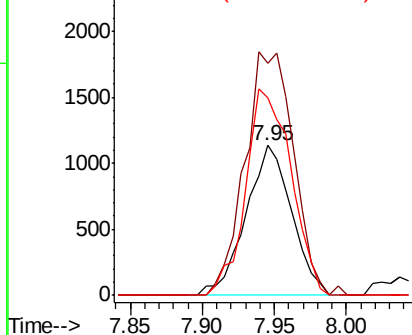
#31
Cyclohexane
Concen: 1.152 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW010625.D
Acq: 30 May 2019 20:06

Instrument :
MSVOA_W
ClientSampleId :
0434-HR-14(HACKENSACK)

Tot Ion: 56 Resp: 2507
Ion Ratio Lower Upper
56 100
69 154.4 28.2 42.2#
84 131.9 75.8 113.8#

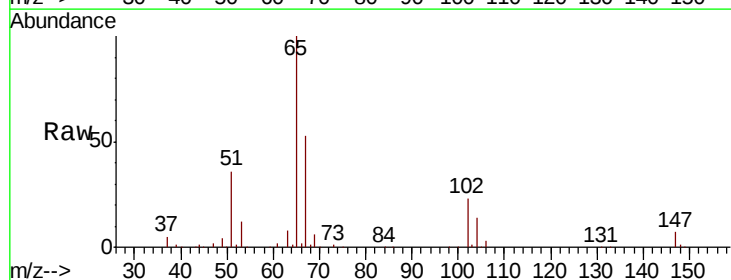


Abundance Ion 56.00 (55.70 to 56.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 84.00 (83.70 to 84.70): VW

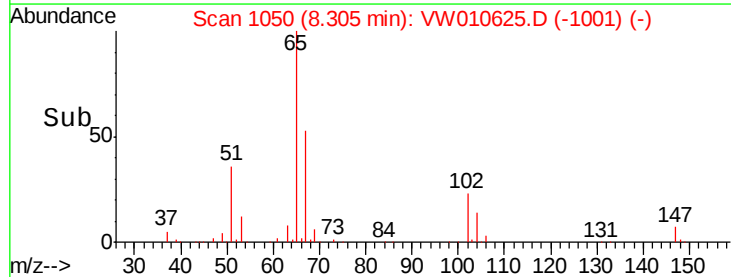
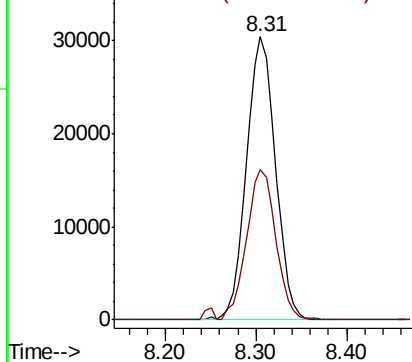


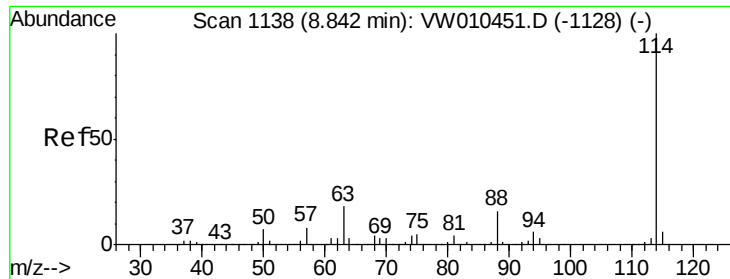
#33
1,2-Dichloroethane-d4
Concen: 58.959 ug/l
RT: 8.31 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VW010625.D
Acq: 30 May 2019 20:06

Tgt Ion: 65 Resp: 67568
Ion Ratio Lower Upper
65 100
67 53.4 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

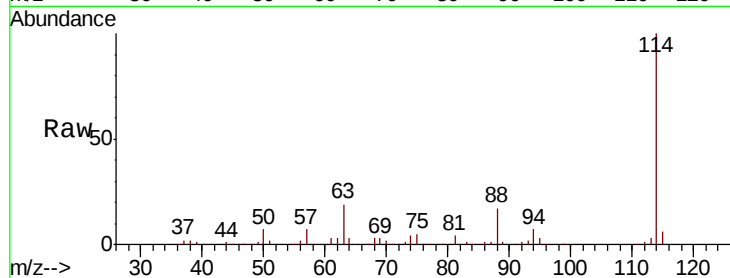




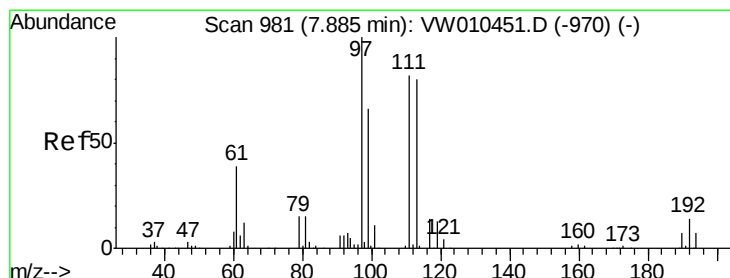
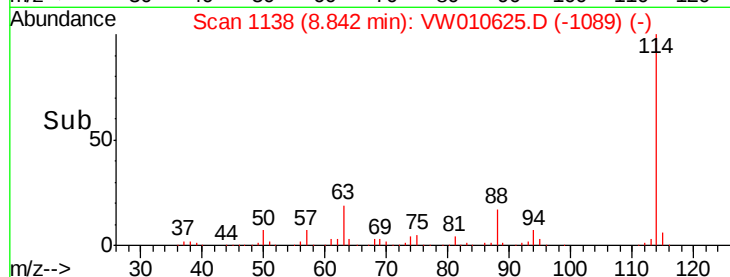
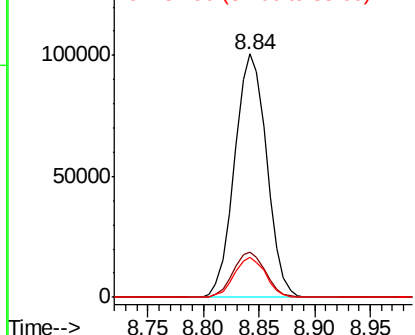
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.84 min Scan# 1138
Delta R.T. -0.00 min
Lab File: VW010625.D
Acq: 30 May 2019 20:06

Instrument :
MSVOA_W
ClientSampleId :
0434-HR-14(HACKENSACK)

Tot Ion:114 Resp: 200632
Ion Ratio Lower Upper
114 100
63 18.8 0.0 36.0
88 16.7 0.0 32.0

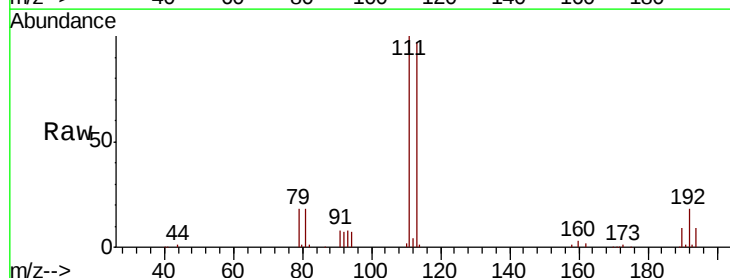


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VW
Ion 87.90 (87.60 to 88.60): VW

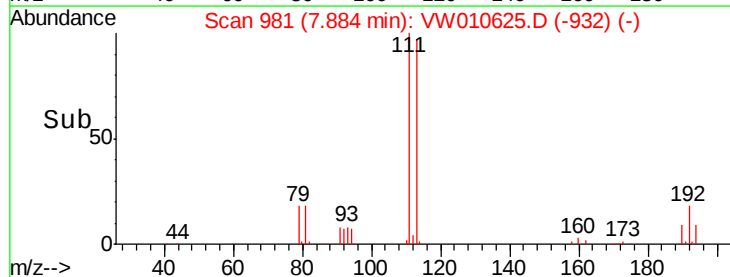
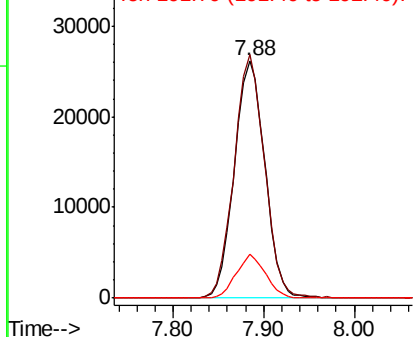


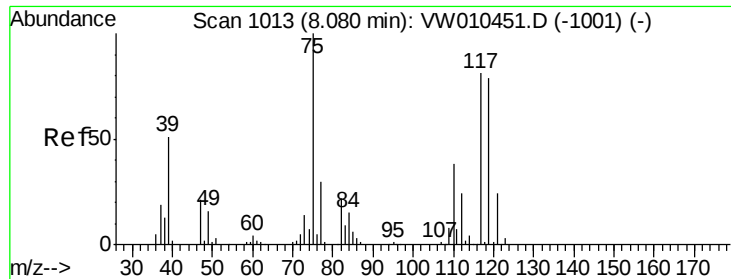
#35
Dibromofluoromethane
Concen: 50.292 ug/l
RT: 7.88 min Scan# 981
Delta R.T. -0.00 min
Lab File: VW010625.D
Acq: 30 May 2019 20:06

Tgt Ion:113 Resp: 61225
Ion Ratio Lower Upper
113 100
111 102.0 82.2 123.4
192 17.5 14.3 21.5



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

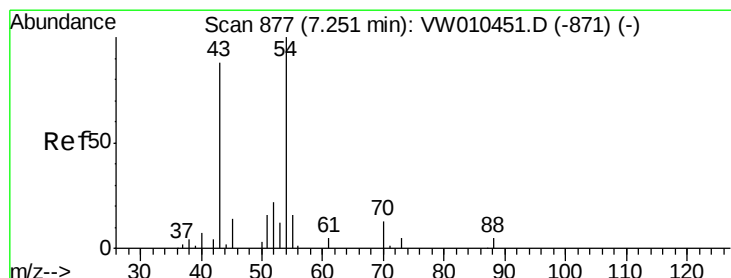
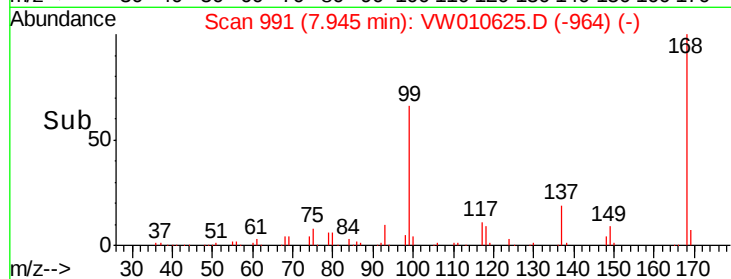
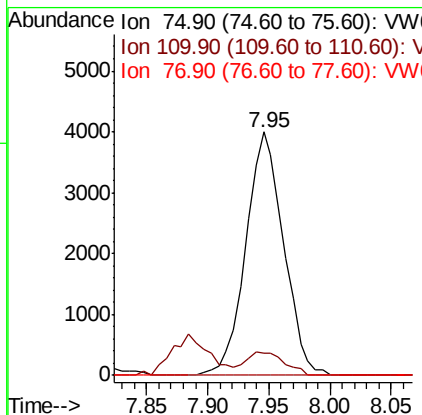
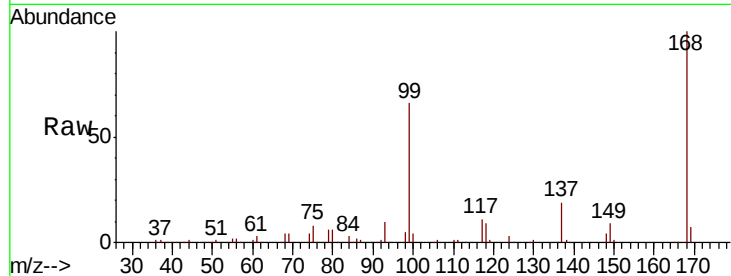




#36
 1,1-Dichloropropene
 Concen: 4.585 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW010625.D
 Acq: 30 May 2019 20:06

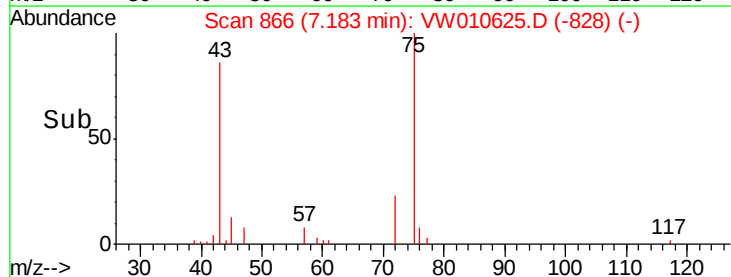
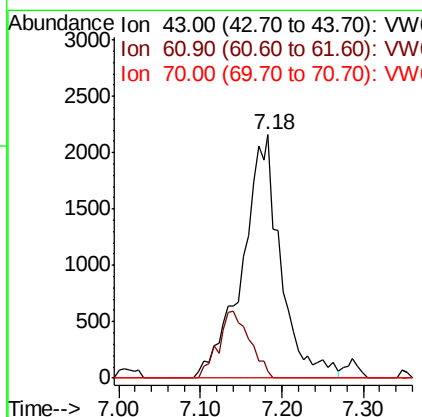
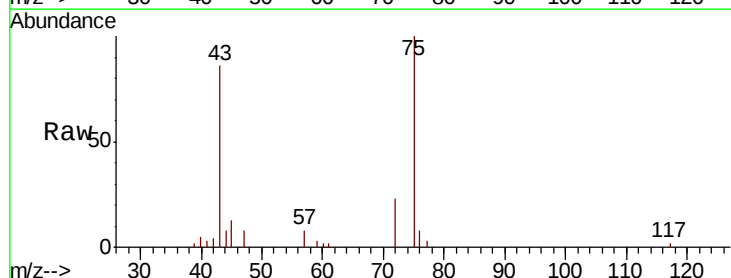
Instrument :
 MSVOA_W
 ClientSampleId :
 0434-HR-14(HACKENSACK)

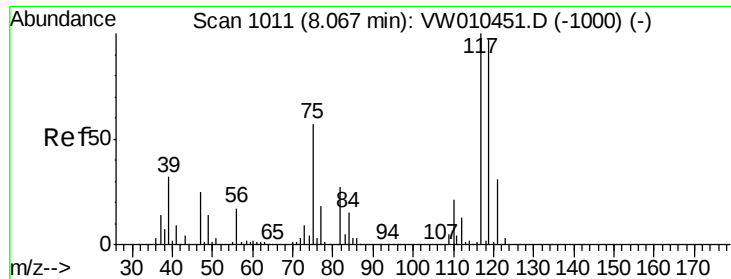
Tot Ion: 75 Resp: 8569
 Ion Ratio Lower Upper
 75 100
 110 9.7 19.2 57.6#
 77 0.0 25.2 37.8#



#37
 Ethyl Acetate
 Concen: 8.896 ug/l
 RT: 7.18 min Scan# 866
 Delta R.T. -0.07 min
 Lab File: VW010625.D
 Acq: 30 May 2019 20:06

Tgt Ion: 43 Resp: 7070
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.2 16.8#
 70 0.0 9.9 14.9#

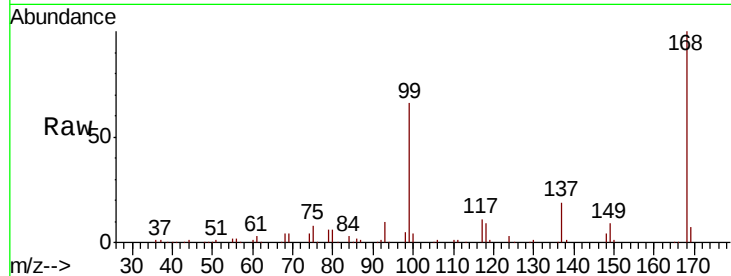




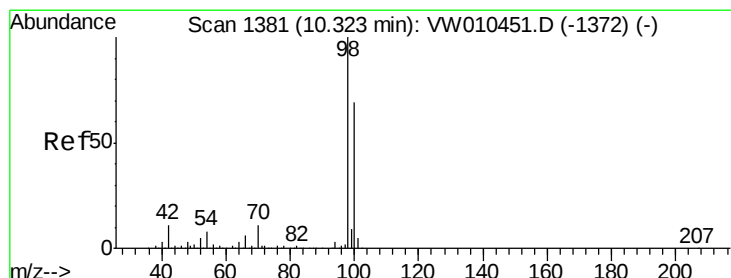
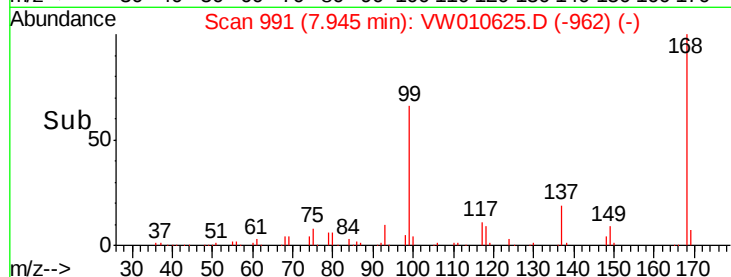
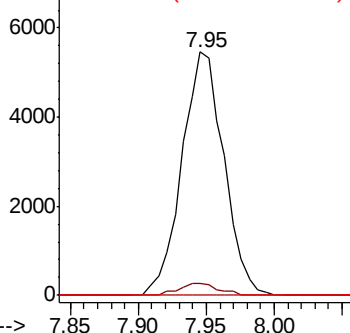
#38
Carbon Tetrachloride
Concen: 5.834 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW010625.D
Acq: 30 May 2019 20:06

Instrument :
MSVOA_W
ClientSampleId :
0434-HR-14(HACKENSACK)

Tot Ion:117 Resp: 11763
Ion Ratio Lower Upper
117 100
119 5.0 77.4 116.0#
121 0.0 25.0 37.6#

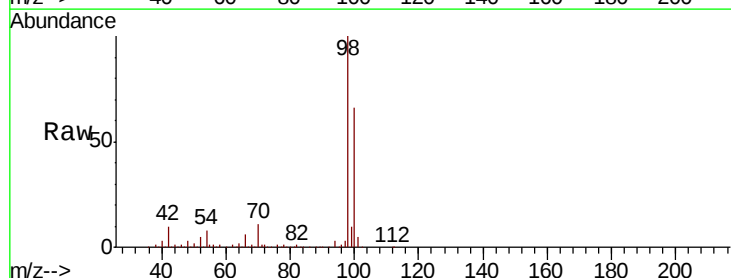


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

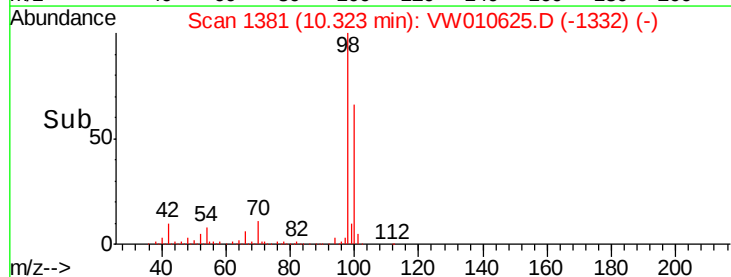
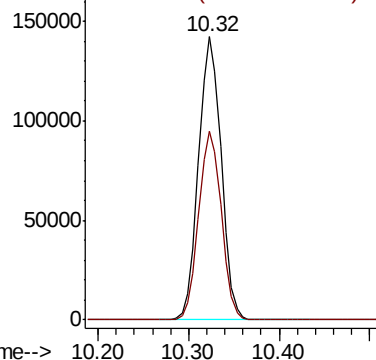


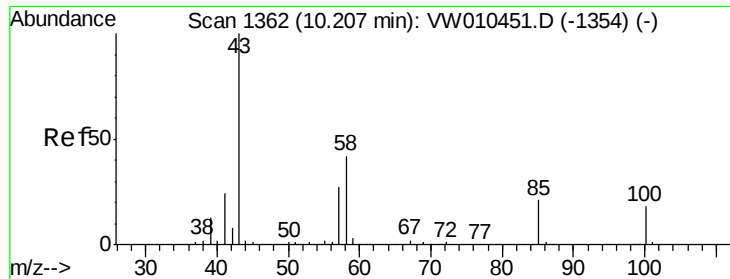
#50
Toluene-d8
Concen: 53.085 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW010625.D
Acq: 30 May 2019 20:06

Tgt Ion: 98 Resp: 246885
Ion Ratio Lower Upper
98 100
100 66.7 53.7 80.5



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





#51

4-Methyl-2-Pentanone

Concen: 2.494 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW010625.D

Acq: 30 May 2019 20:06

Instrument :

MSVOA_W

ClientSampleId :

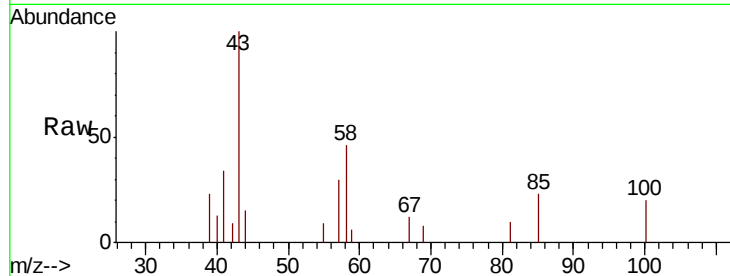
0434-HR-14(HACKENSACK)

Tot Ion: 43 Resp: 2007

Ion Ratio Lower Upper

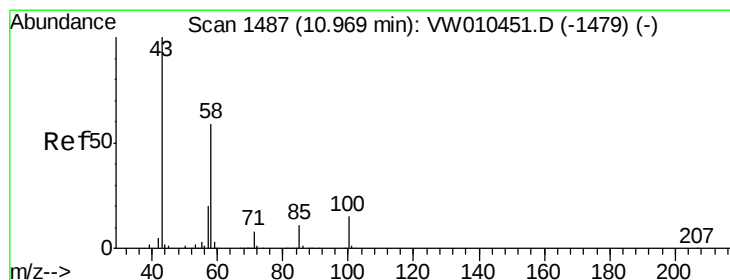
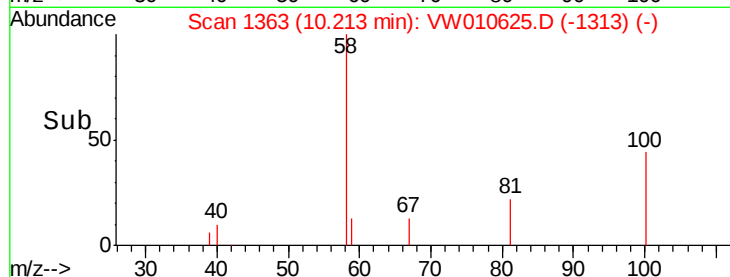
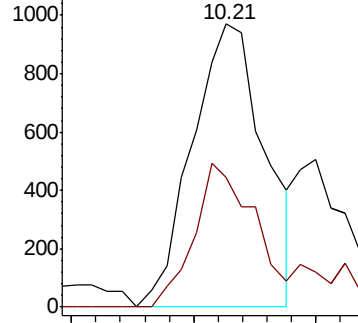
43 100

58 42.3 33.2 49.8



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#59

2-Hexanone

Concen: 1.652 ug/l

RT: 10.94 min Scan# 1482

Delta R.T. -0.03 min

Lab File: VW010625.D

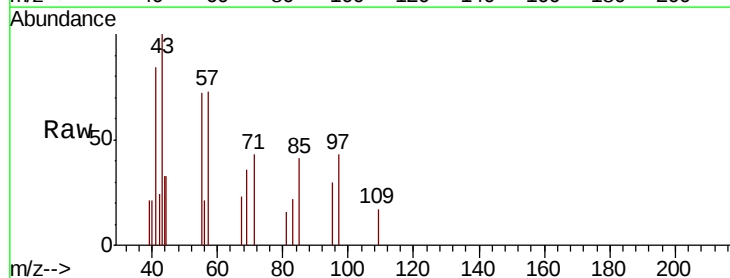
Acq: 30 May 2019 20:06

Tgt Ion: 43 Resp: 948

Ion Ratio Lower Upper

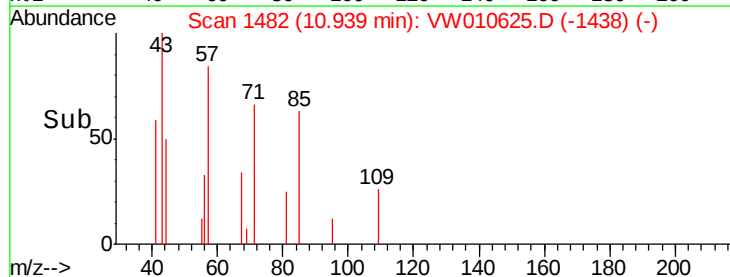
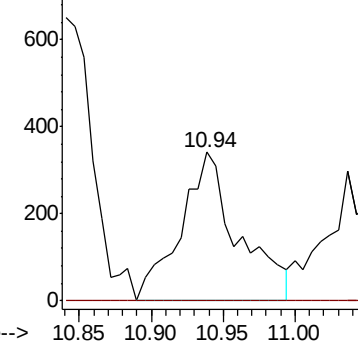
43 100

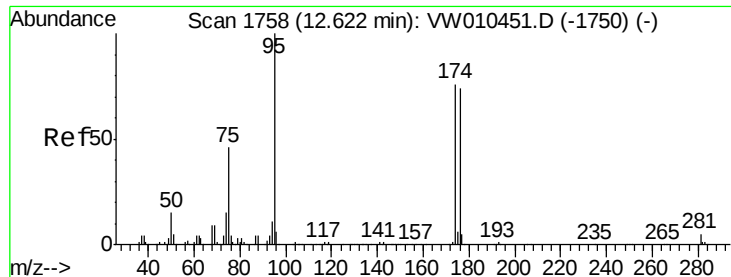
58 0.0 28.9 86.8#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#62

4-Bromofluorobenzene

Concen: 48.337 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW010625.D

Acq: 30 May 2019 20:06

Instrument :

MSVOA_W

ClientSampleId :

0434-HR-14(HACKENSACK)

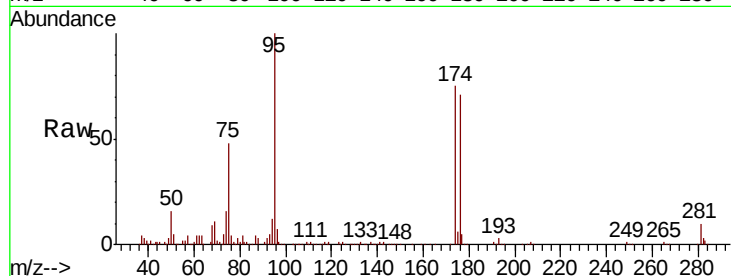
Tot Ion: 95 Resp: 89542

Ion Ratio Lower Upper

95 100

174 72.0 0.0 148.6

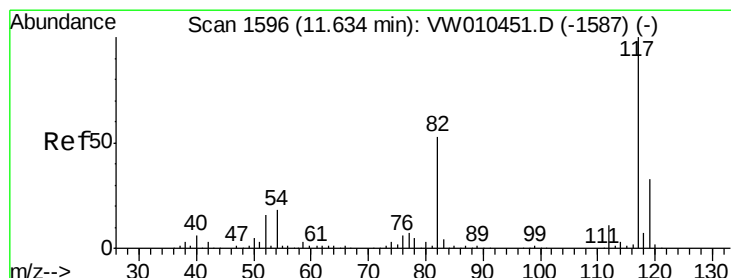
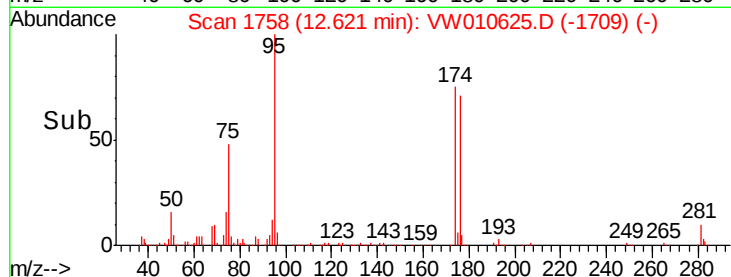
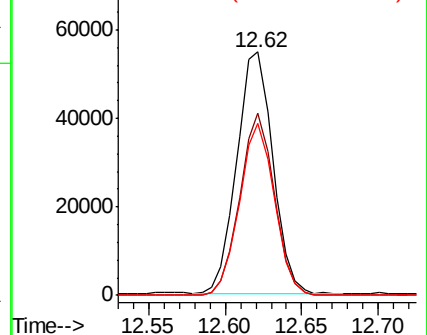
176 68.9 0.0 144.2



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: VW010625.D

Acq: 30 May 2019 20:06

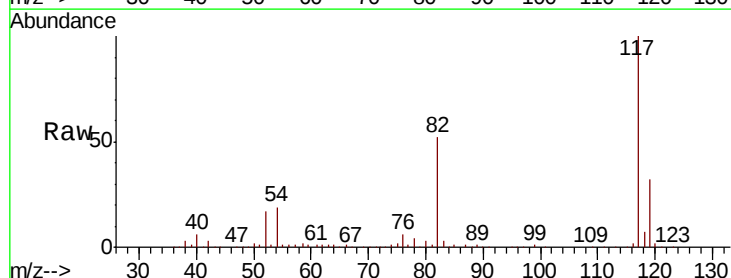
Tgt Ion: 117 Resp: 177753

Ion Ratio Lower Upper

117 100

82 52.0 42.8 64.2

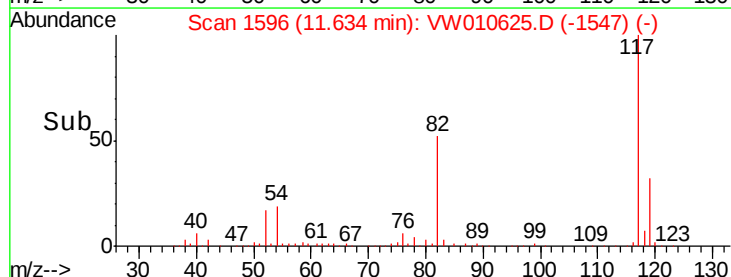
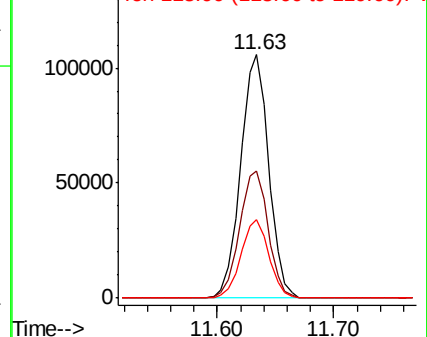
119 32.1 26.3 39.5

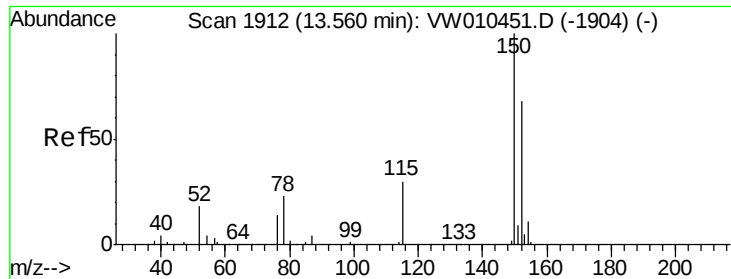


Abundance Ion 116.90 (116.60 to 117.60): VW

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: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW010625.D

Acq: 30 May 2019 20:06

Instrument :

MSVOA_W

ClientSampleId :

0434-HR-14(HACKENSACK)

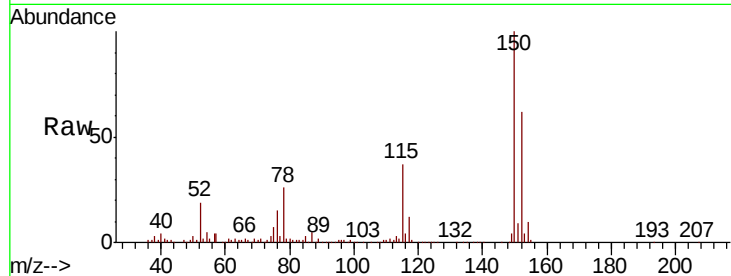
Tot Ion:152 Resp: 76980

Ion Ratio Lower Upper

152 100

115 61.7 30.3 91.0

150 157.2 0.0 349.8

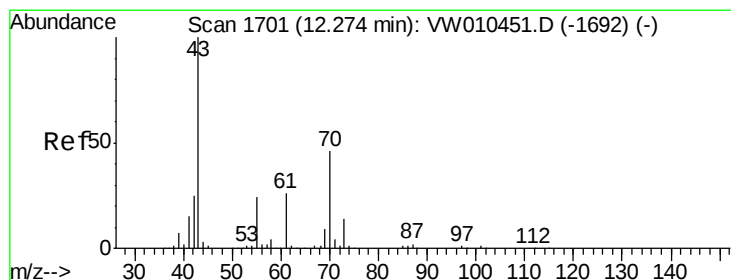
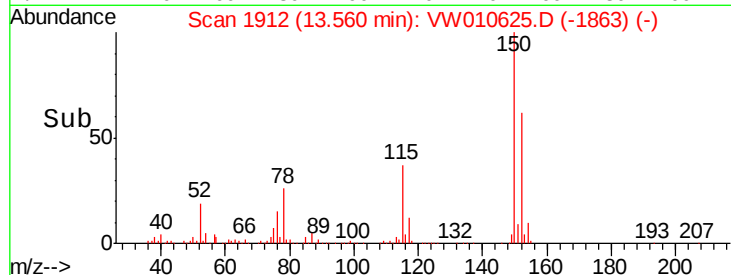
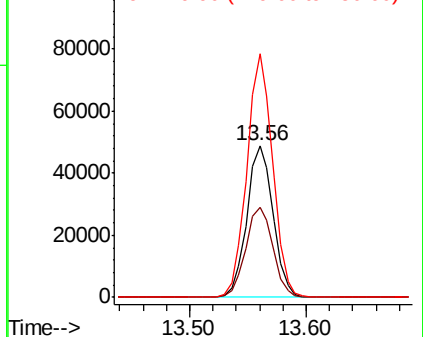


Abundance

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: 1.832 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW010625.D

Acq: 30 May 2019 20:06

Tgt Ion: 43 Resp: 2565

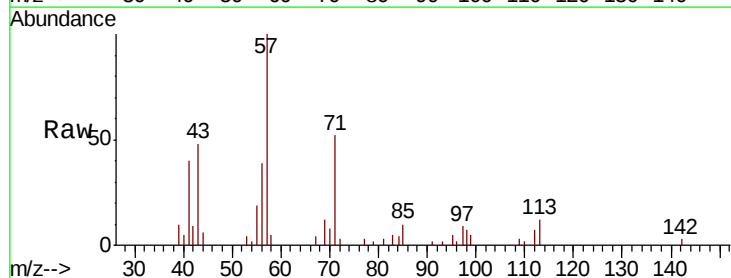
Ion Ratio Lower Upper

43 100

70 49.2 37.1 55.7

55 0.0 19.6 29.4#

61 0.0 20.7 31.1#



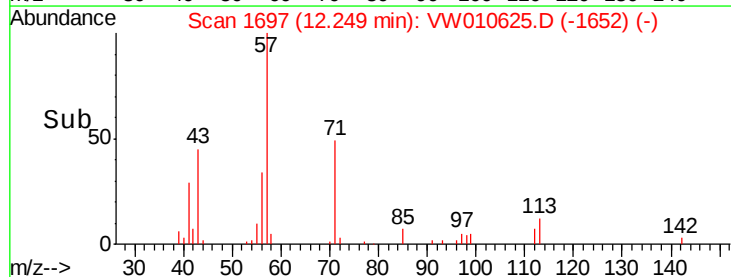
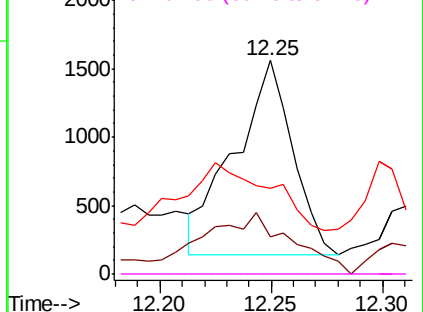
Abundance

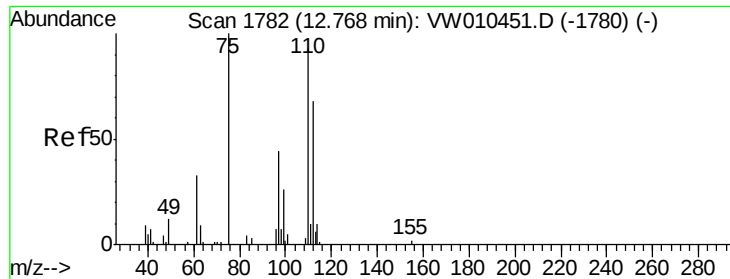
Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV





#76

1,2,3-Trichloropropane

Concen: 53.573 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW010625.D

Acq: 30 May 2019 20:06

Instrument :

MSVOA_W

ClientSampleId :

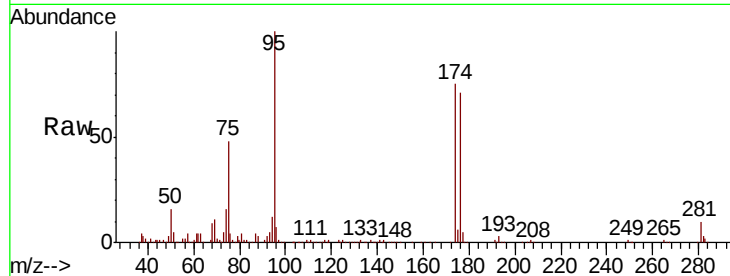
0434-HR-14(HACKENSACK)

Tot Ion: 75 Resp: 41862

Ion Ratio Lower Upper

75 100

77 1.8 170.0 510.1#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW

12.62

25000

20000

15000

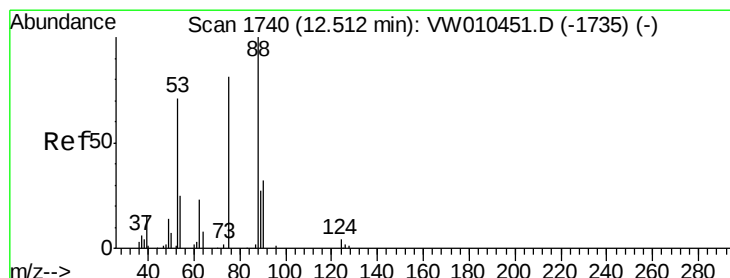
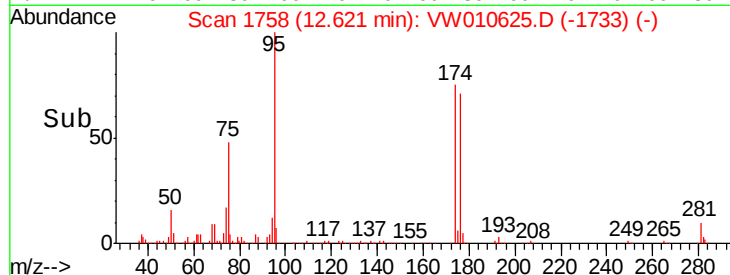
10000

5000

0

12.55 12.60 12.65 12.70

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 111.809 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW010625.D

Acq: 30 May 2019 20:06

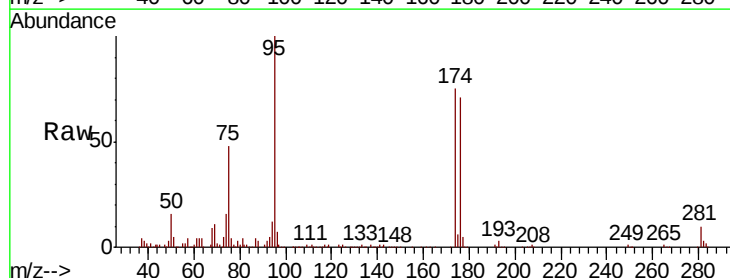
Tgt Ion: 75 Resp: 41862

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.8#

89 0.0 39.5 59.3#



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

12.62

30000

20000

10000

0

12.55 12.60 12.65 12.70

Time-->

