

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW033119\
 Data File : VW009610.D
 Acq On : 31 Mar 2019 15:00
 Operator : SY/VA
 Sample : K2130-02
 Misc : 6.38G/5.0ML/MSVOA W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 01 04:54:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W032919S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 29 13:24:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	82769	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	124256	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	107149	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	42770	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.30	65	49432	52.23	ug/l	0.00
Spiked Amount			Recovery	=	104.46%	
35) Dibromofluoromethane	7.88	113	37037	47.46	ug/l	0.00
Spiked Amount			Recovery	=	94.92%	
50) Toluene-d8	10.32	98	119664	41.48	ug/l	0.00
Spiked Amount			Recovery	=	82.96%	
62) 4-Bromofluorobenzene	12.62	95	34982	32.51	ug/l	0.00
Spiked Amount			Recovery	=	65.02%	

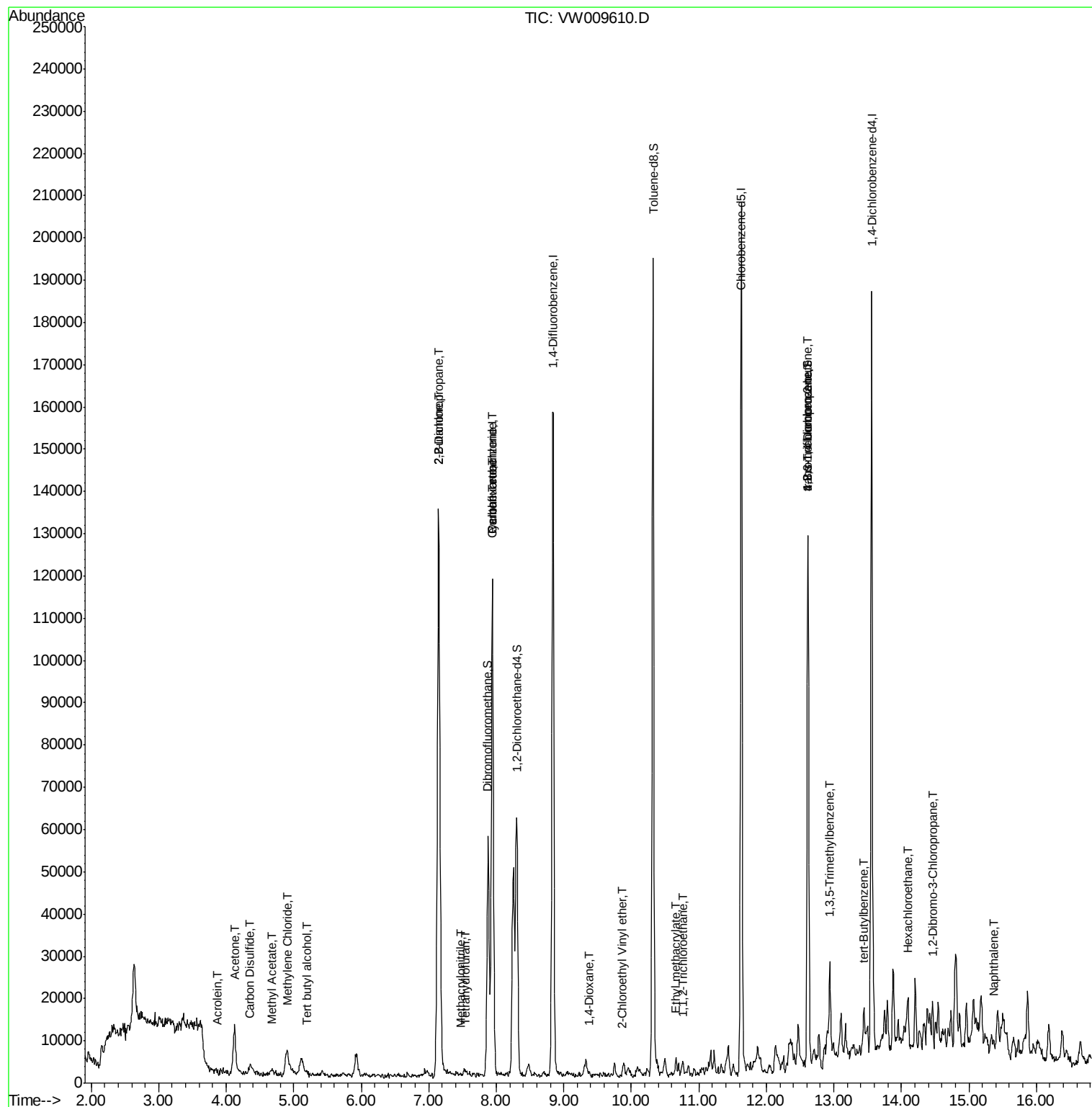
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.02	85	24	Below Cal	#	41
11) Tert butyl alcohol	5.18	59	1106	20.154	ug/l #	82
13) Acrolein	3.87	56	162	4.025	ug/l	90
16) Acetone	4.12	43	20176	94.810	ug/l	96
17) Carbon Disulfide	4.35	76	4926	2.167	ug/l #	81
18) Methyl Acetate	4.68	43	3193	6.207	ug/l	94
20) Methylene Chloride	4.90	84	4243	1.305	ug/l #	56
25) 2-Butanone	7.15	43	9034	30.720	ug/l #	66
26) 2,2-Dichloropropane	7.15	77	8295	8.735	ug/l #	52
29) Tetrahydrofuran	7.54	42	967	5.296	ug/l #	58
31) Cyclohexane	7.93	56	2694	1.730	ug/l #	29
38) Carbon Tetrachloride	7.95	117	8023	6.092	ug/l #	16
41) Methacrylonitrile	7.47	41	158	4.288	ug/l #	21
49) 1,4-Dioxane	9.37	88	31	4.313	ug/l #	1
55) 1,1,2-Trichloroethane	10.76	97	1079	1.654	ug/l #	21
56) Ethyl methacrylate	10.66	69	438	4.244	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.85	63	21	17.062	ug/l #	46
76) 1,2,3-Trichloropropane	12.62	75	18997	47.232	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	5882	2.347	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.62	75	18997	109.837	ug/l #	7
83) tert-Butylbenzene	13.44	119	2401	1.125	ug/l	67
90) Hexachloroethane	14.10	117	971	1.811	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.46	75	136	1.323	ug/l #	5
95) Naphthalene	15.38	128	2102	3.922	ug/l	96

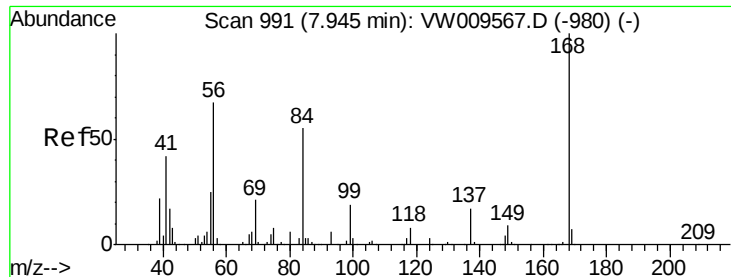
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Apr 01 04:54:53 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W032919S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 29 13:24:53 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.00 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

Instrument :

MSVOA_W

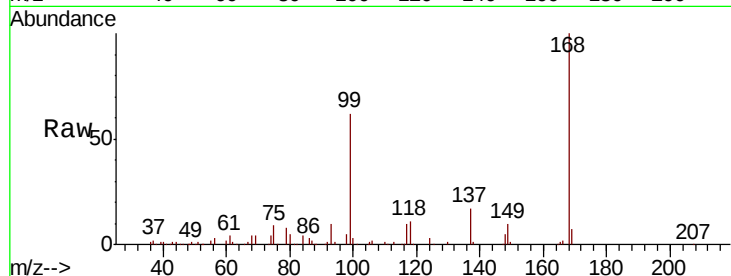
ClientSampled :

Tot Ion:168 Resp: 82769

Ion Ratio Lower Upper

168 100

99 61.9 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

40000

30000

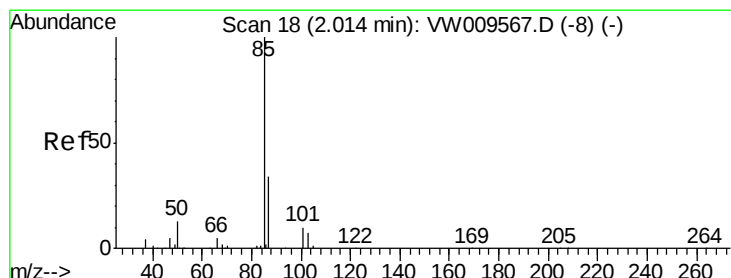
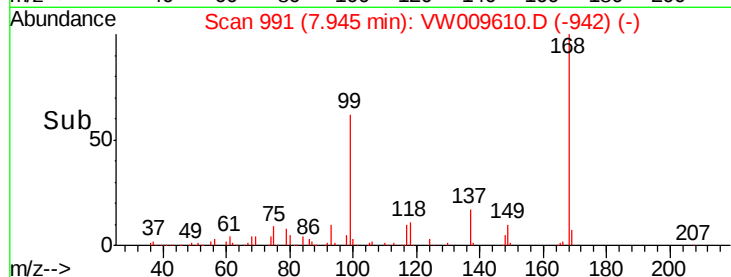
20000

10000

0

7.90 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.02 min Scan# 19

Delta R.T. 0.01 min

Lab File: VW009610.D

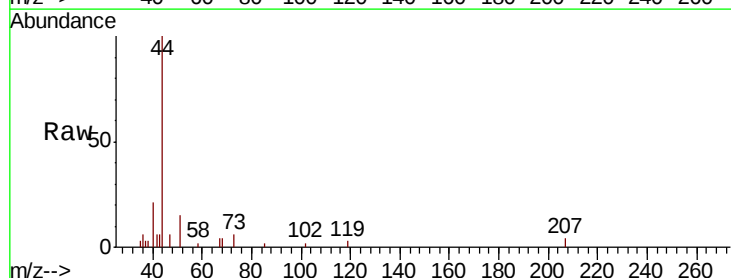
Acq: 31 Mar 2019 15:00

Tgt Ion: 85 Resp: 24

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.02

60

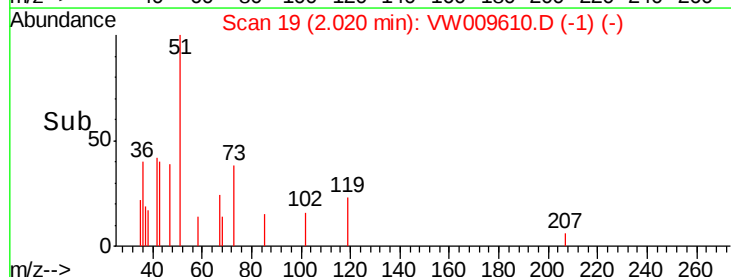
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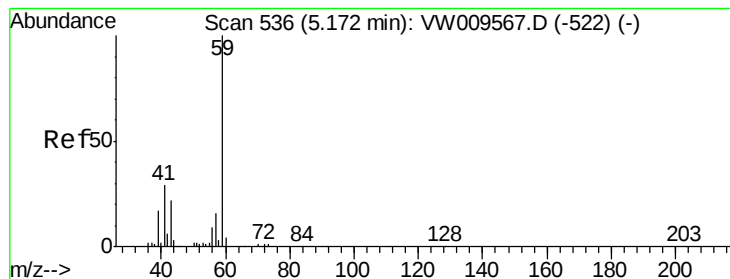
20

0

2.00 2.01 2.02 2.03 2.04

Time-->



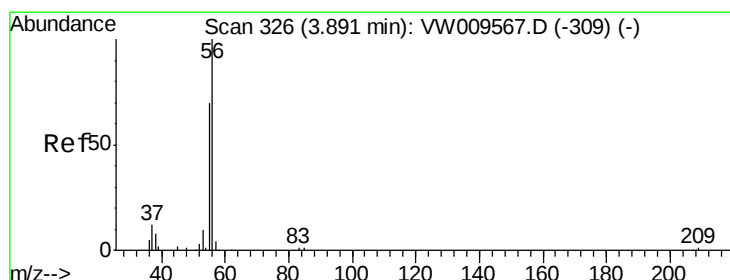
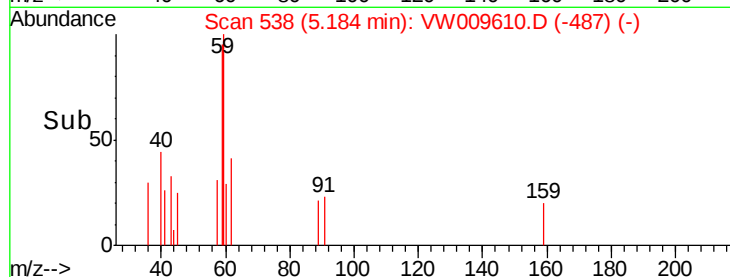
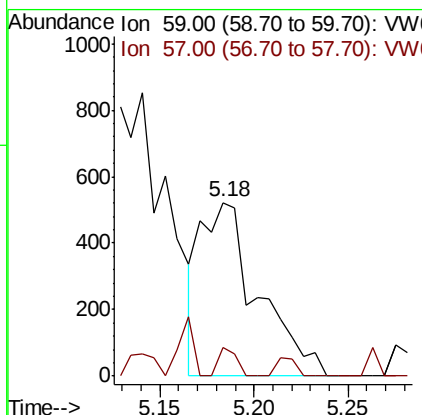
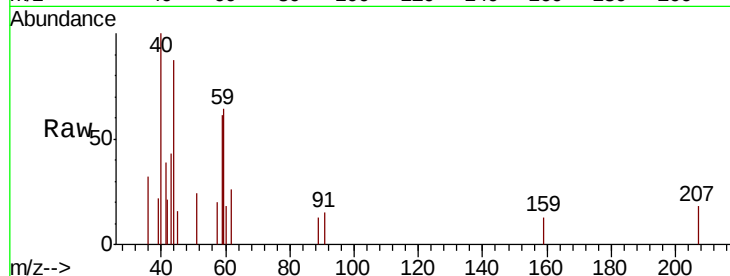


#11

Tert butyl alcohol
 Concen: 20.154 ug/l
 RT: 5.18 min Scan# 538
 Delta R.T. 0.01 min
 Lab File: VW009610.D
 Acq: 31 Mar 2019 15:00

Instrument :
 MSVOA_W
 ClientSampled :

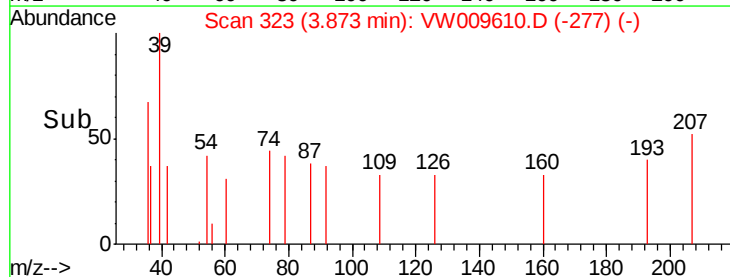
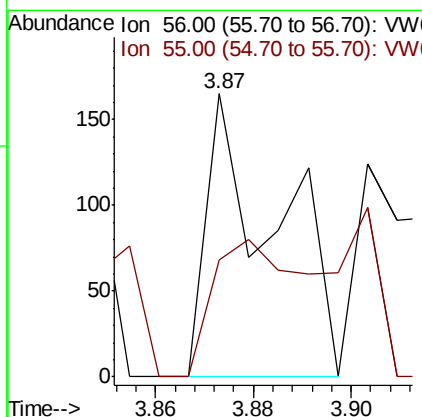
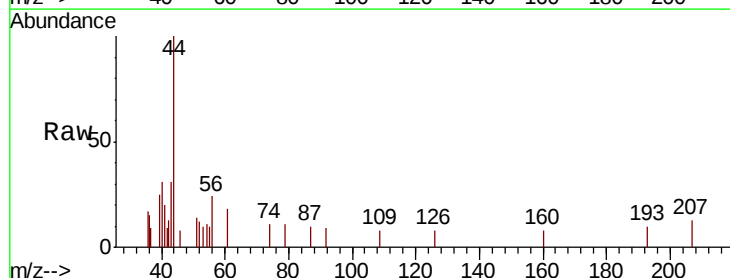
Tot Ion: 59 Resp: 1106
 Ion Ratio Lower Upper
 59 100
 57 4.9 9.4 14.0#

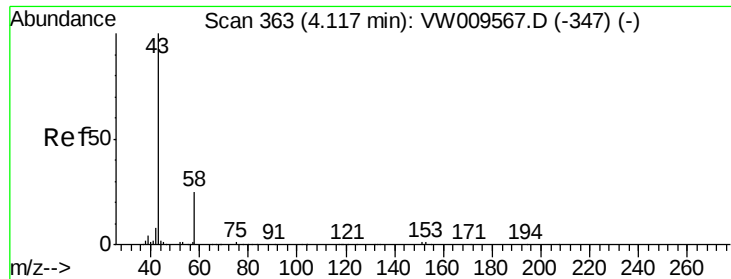


#13

Acrolein
 Concen: 4.025 ug/l
 RT: 3.87 min Scan# 323
 Delta R.T. -0.02 min
 Lab File: VW009610.D
 Acq: 31 Mar 2019 15:00

Tgt Ion: 56 Resp: 162
 Ion Ratio Lower Upper
 56 100
 55 61.1 55.2 82.8





#16

Acetone

Concen: 94.810 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

Instrument :

MSVOA_W

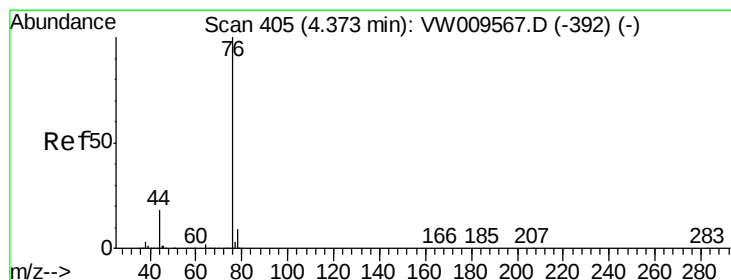
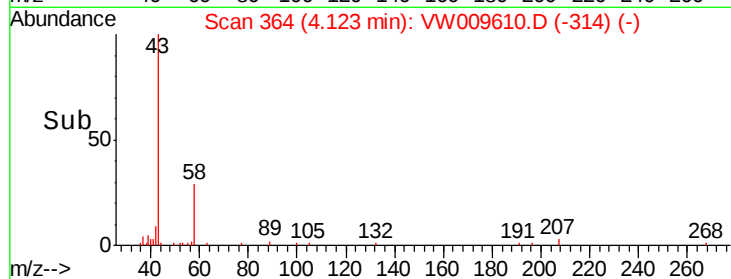
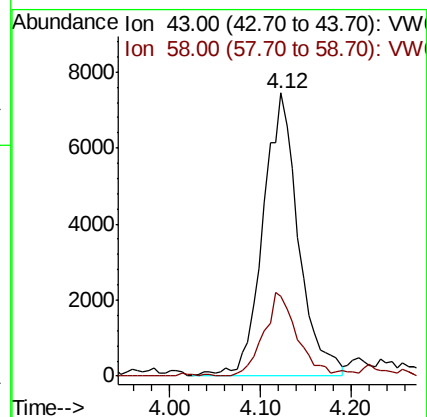
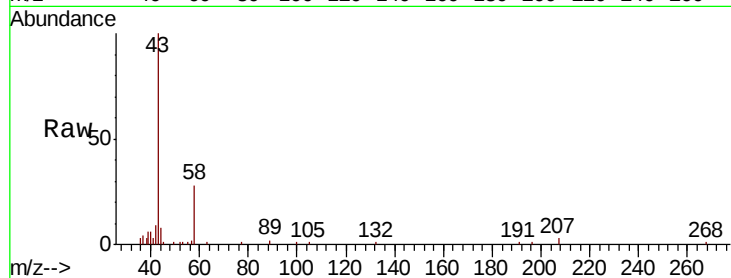
ClientSampled :

Tot Ion: 43 Resp: 20176

Ion Ratio Lower Upper

43 100

58 27.5 23.6 35.4



#17

Carbon Disulfide

Concen: 2.167 ug/l

RT: 4.35 min Scan# 402

Delta R.T. -0.02 min

Lab File: VW009610.D

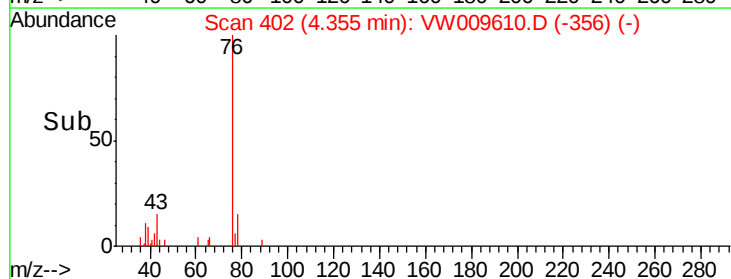
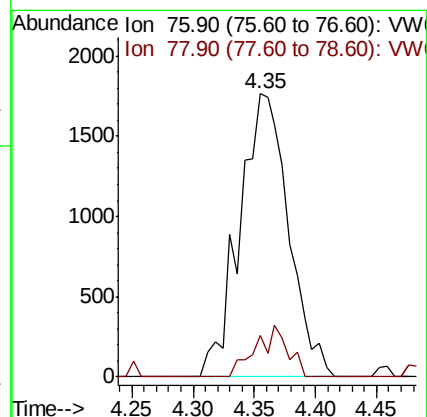
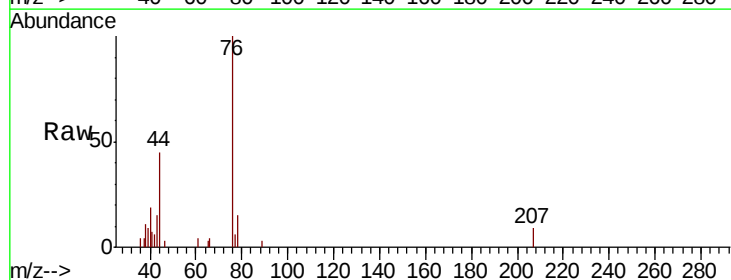
Acq: 31 Mar 2019 15:00

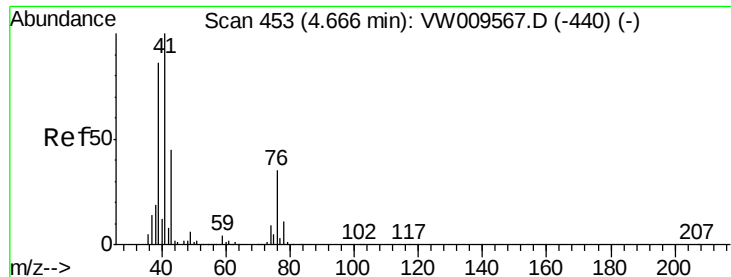
Tgt Ion: 76 Resp: 4926

Ion Ratio Lower Upper

76 100

78 14.8 6.6 9.8#

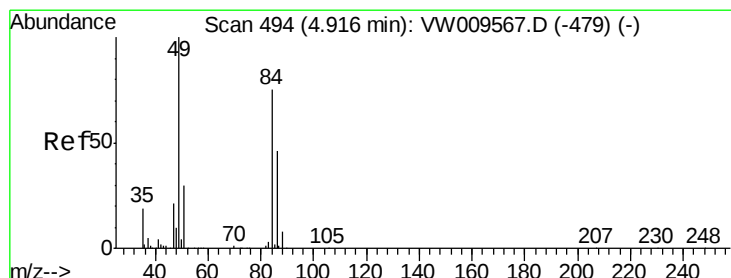
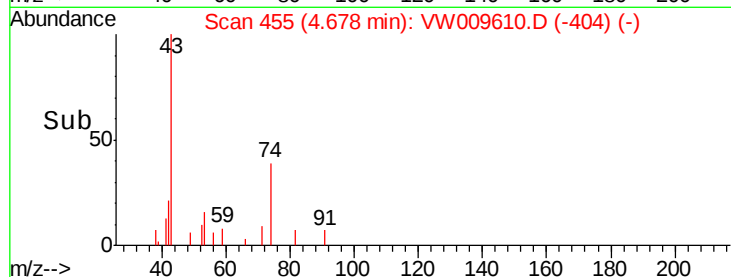
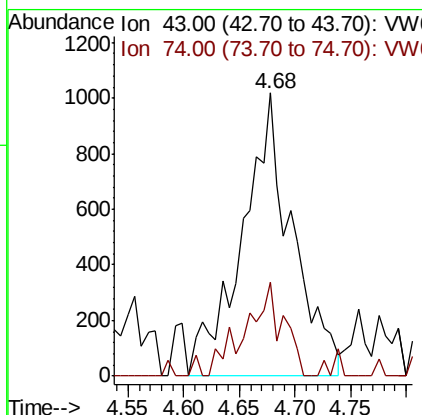
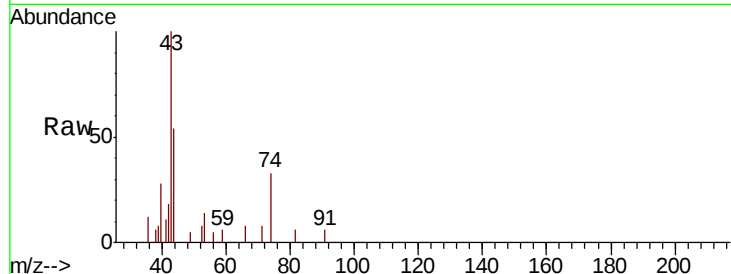




#18
Methyl Acetate
Concen: 6.207 ug/l
RT: 4.68 min Scan# 455
Delta R.T. 0.01 min
Lab File: VW009610.D
Acq: 31 Mar 2019 15:00

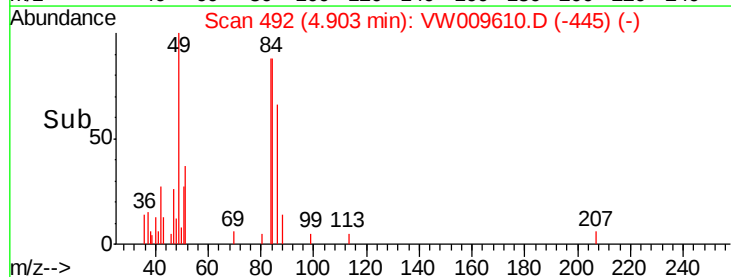
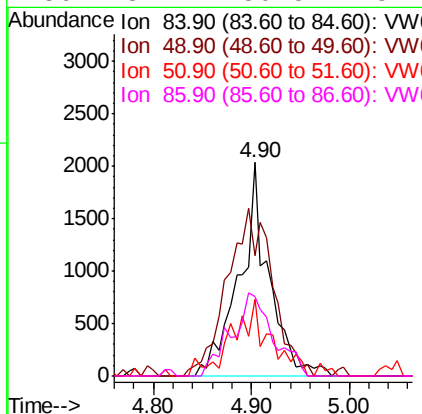
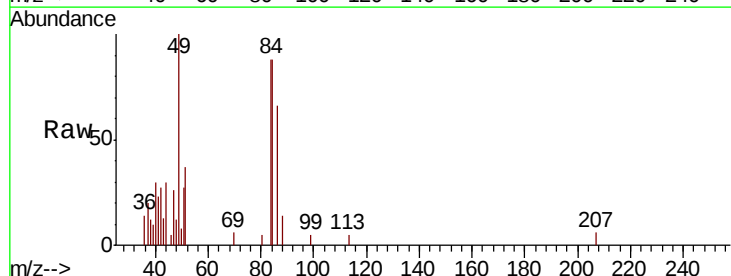
Instrument :
MSVOA_W
ClientSampled :

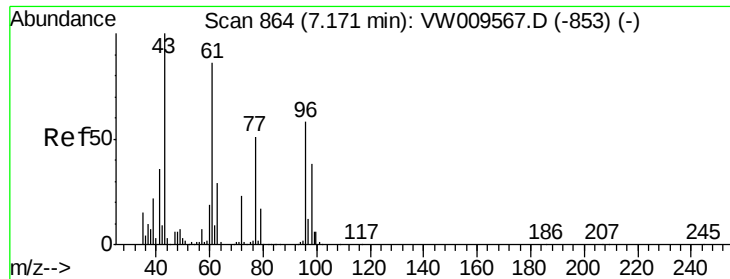
Tot Ion: 43 Resp: 3193
Ion Ratio Lower Upper
43 100
74 24.8 17.7 26.5



#20
Methylene Chloride
Concen: 1.305 ug/l
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW009610.D
Acq: 31 Mar 2019 15:00

Tgt Ion: 84 Resp: 4243
Ion Ratio Lower Upper
84 100
49 53.7 99.1 148.7#
51 35.8 28.7 43.1
86 37.1 50.5 75.7#





#25

2-Butanone

Concen: 30.720 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.02 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

Instrument :

MSVOA_W

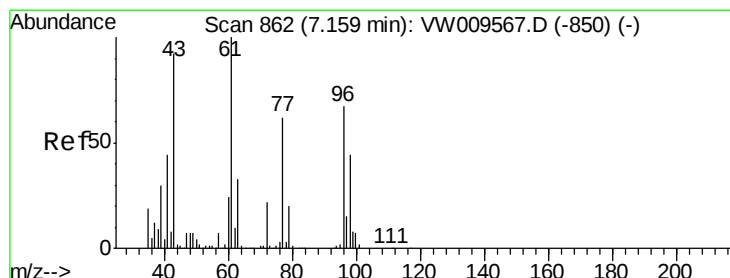
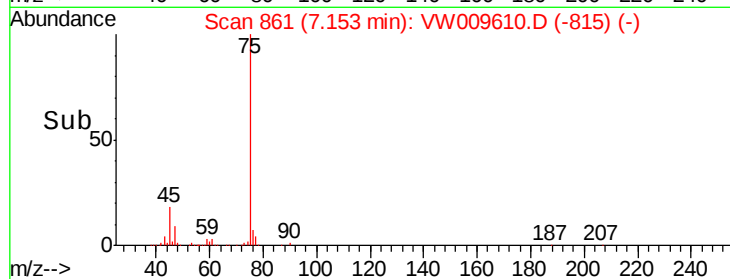
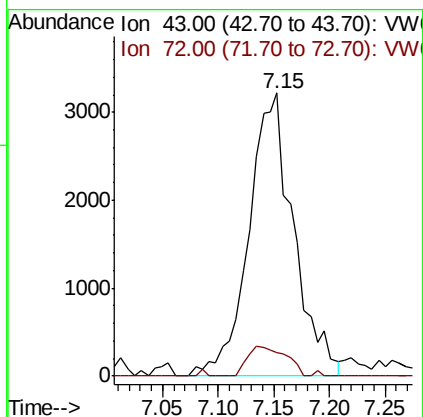
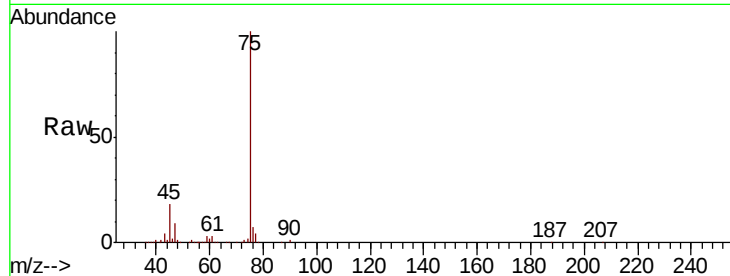
ClientSampled :

Tot Ion: 43 Resp: 9034

Ion Ratio Lower Upper

43 100

72 8.2 20.0 30.0#



#26

2,2-Dichloropropane

Concen: 8.735 ug/l

RT: 7.15 min Scan# 860

Delta R.T. -0.01 min

Lab File: VW009610.D

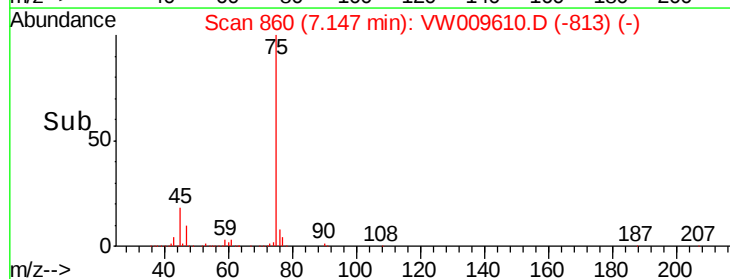
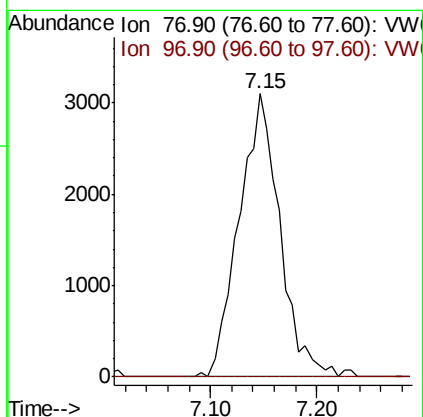
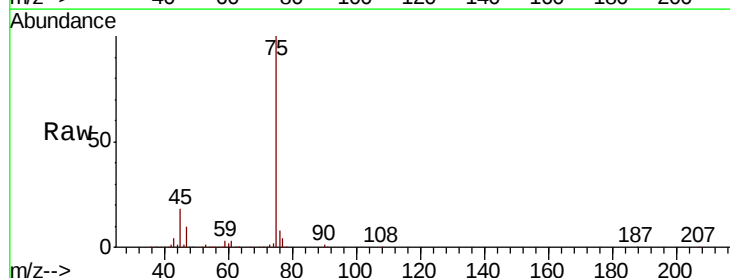
Acq: 31 Mar 2019 15:00

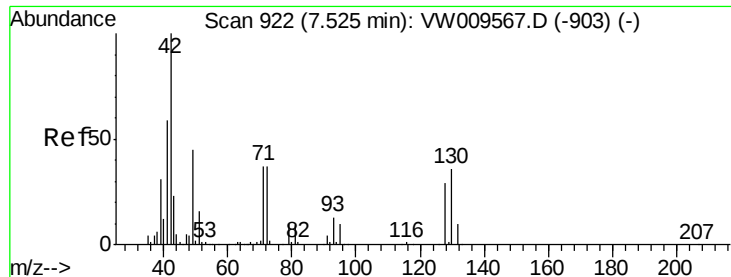
Tgt Ion: 77 Resp: 8295

Ion Ratio Lower Upper

77 100

97 0.0 11.6 34.7#





#29

Tetrahydrofuran

Concen: 5.296 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

Instrument :
MSVOA_W
ClientSampled :

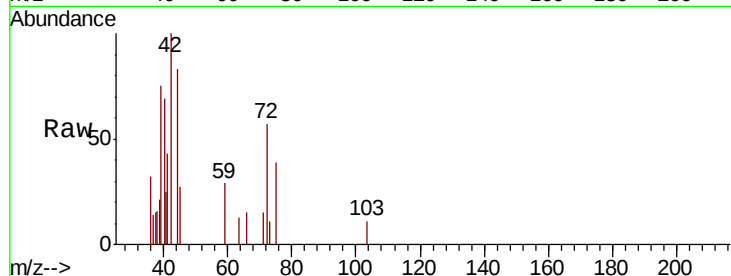
Tot Ion: 42 Resp: 967

Ion Ratio Lower Upper

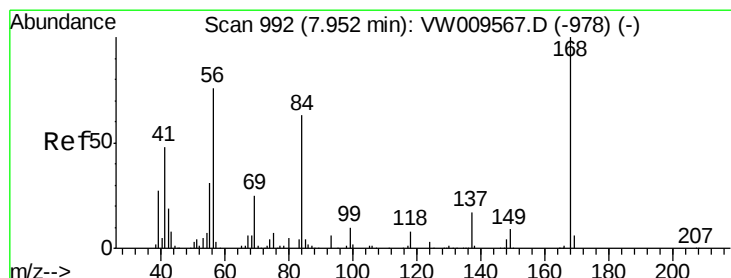
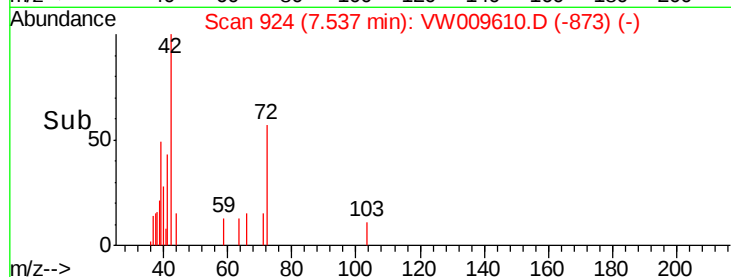
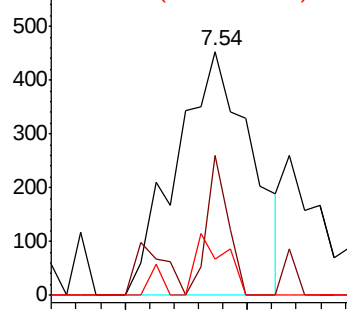
42 100

72 16.4 32.4 48.6#

71 10.1 30.1 45.1#



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: 1.730 ug/l

RT: 7.93 min Scan# 989

Delta R.T. -0.02 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

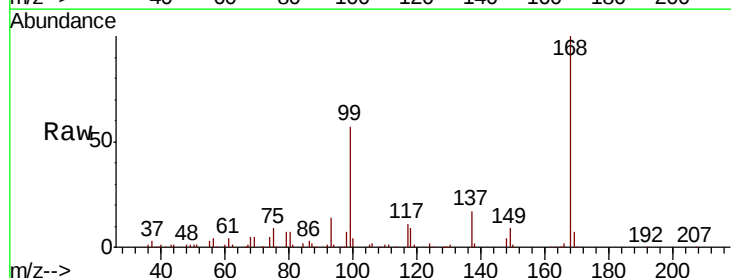
Tgt Ion: 56 Resp: 2694

Ion Ratio Lower Upper

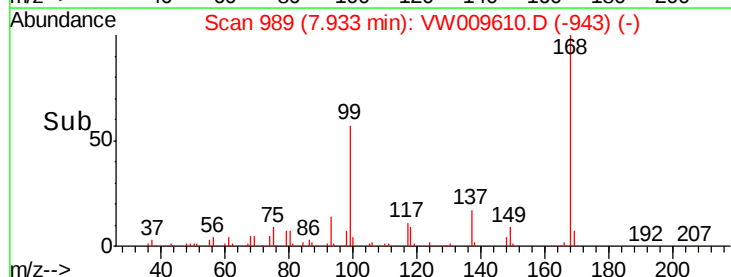
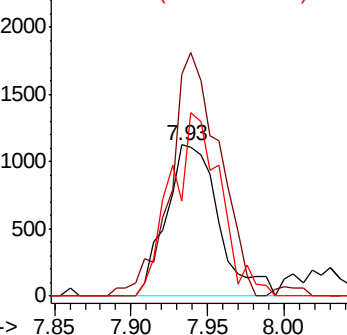
56 100

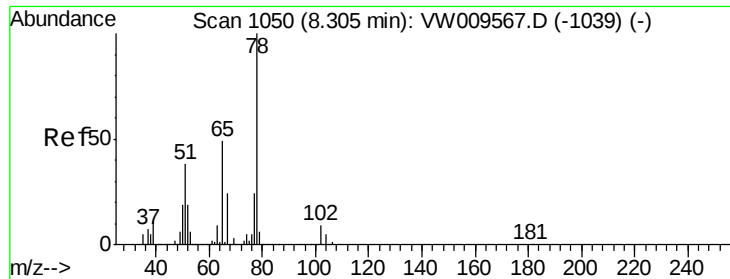
69 142.1 26.1 39.1#

84 63.3 68.6 103.0#



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: 52.226 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

Instrument :

MSVOA_W

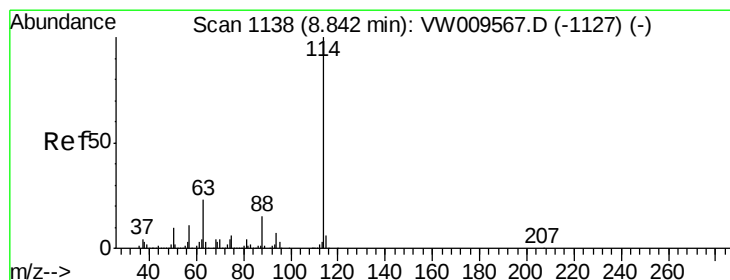
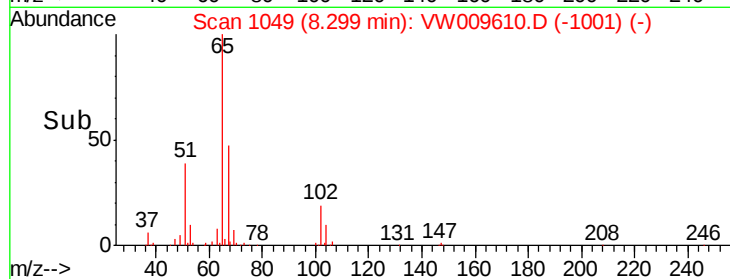
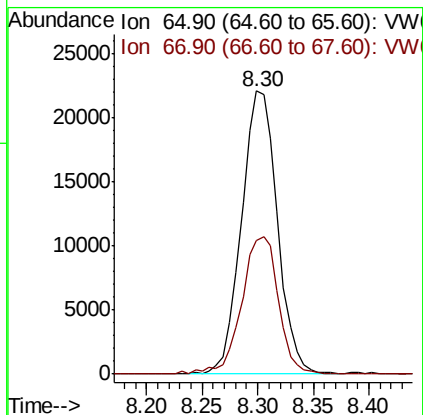
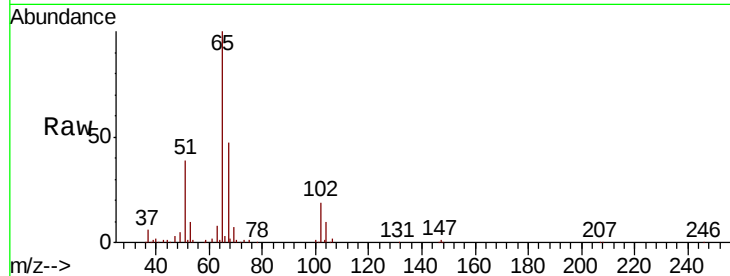
ClientSampled :

Tot Ion: 65 Resp: 49432

Ion Ratio Lower Upper

65 100

67 49.9 0.0 102.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

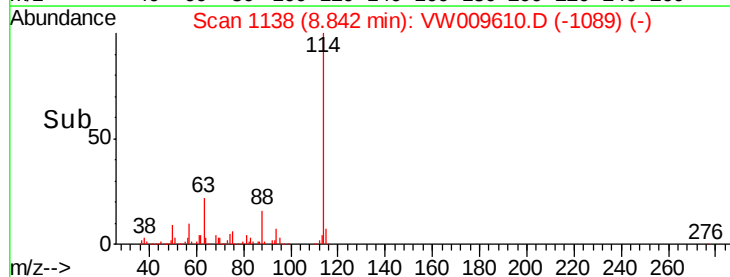
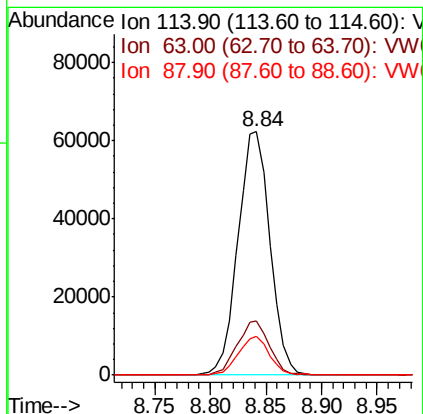
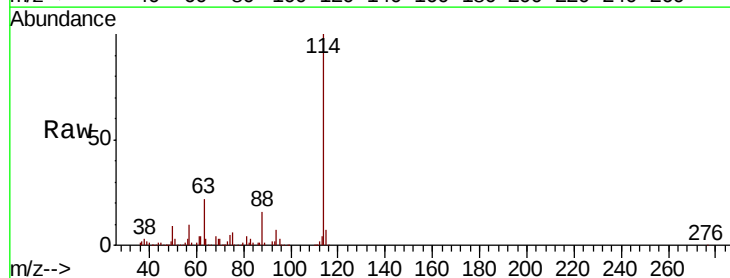
Tgt Ion: 114 Resp: 124256

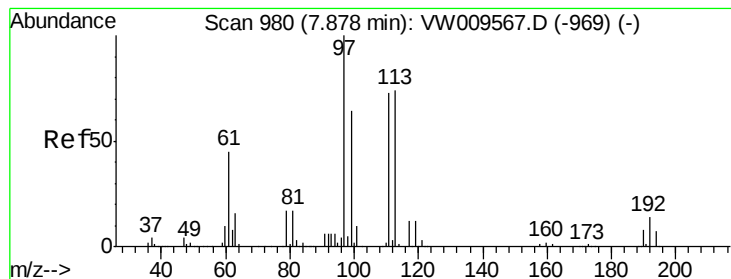
Ion Ratio Lower Upper

114 100

63 22.3 0.0 42.2

88 15.9 0.0 30.8





#35

Dibromofluoromethane

Concen: 47.457 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.00 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

Instrument :

MSVOA_W

ClientSampleId :

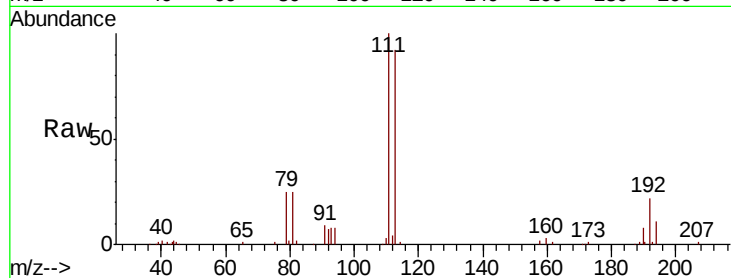
Tot Ion:113 Resp: 37037

Ion Ratio Lower Upper

113 100

111 105.5 82.6 124.0

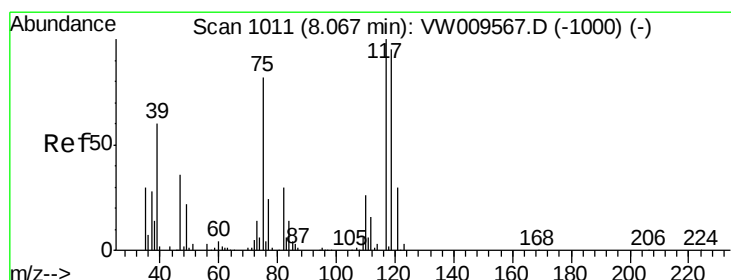
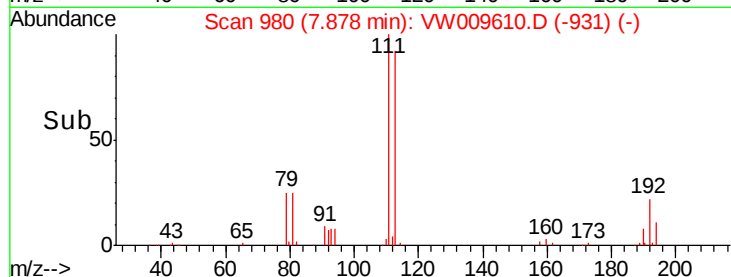
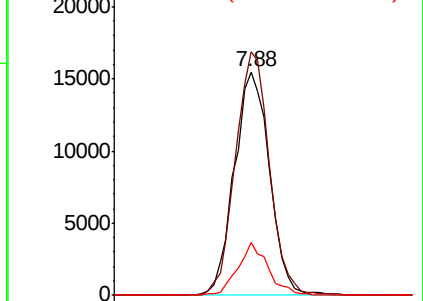
192 20.4 16.4 24.6



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



#38

Carbon Tetrachloride

Concen: 6.092 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

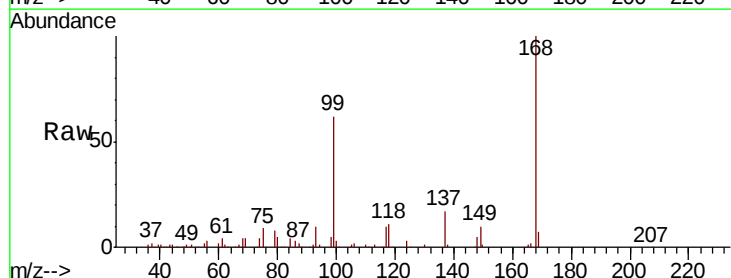
Tgt Ion:117 Resp: 8023

Ion Ratio Lower Upper

117 100

119 3.6 75.4 113.0#

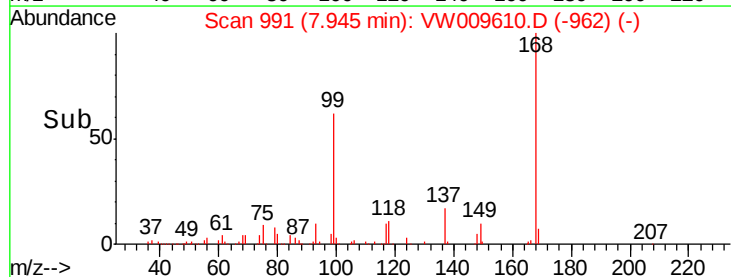
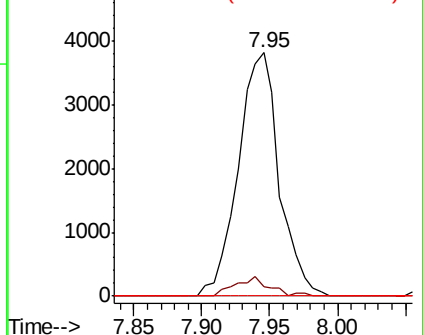
121 0.0 24.9 37.3#

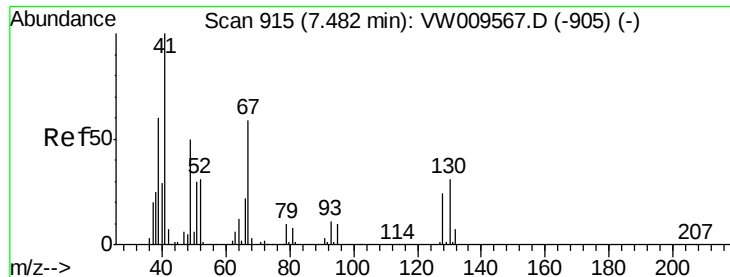


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

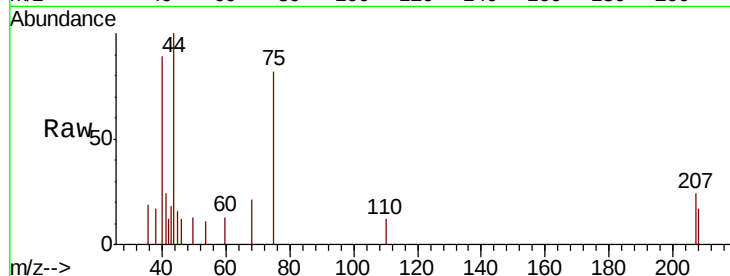




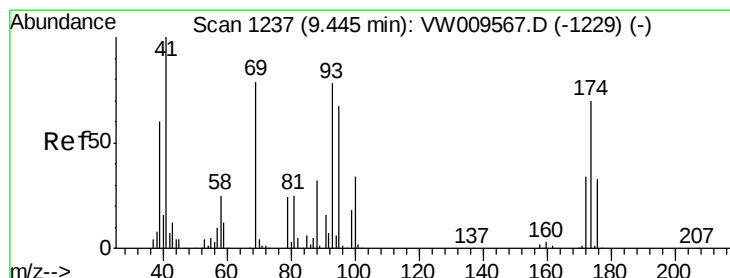
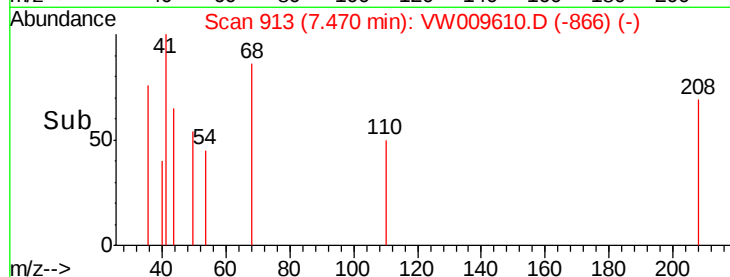
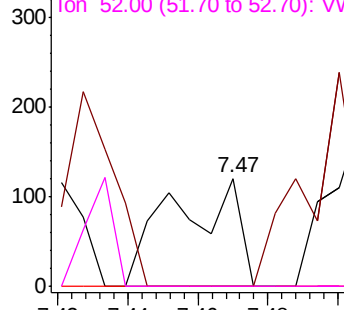
#41
Methacrylonitrile
Concen: 4.288 ug/l
RT: 7.47 min Scan# 913
Delta R.T. -0.01 min
Lab File: VW009610.D
Acq: 31 Mar 2019 15:00

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 41 Resp: 158
Ion Ratio Lower Upper
41 100
39 0.0 52.5 78.7#
67 0.0 56.6 84.8#
52 0.0 27.2 40.8#

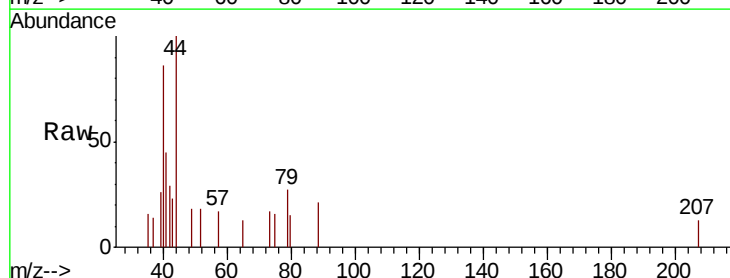


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 67.00 (66.70 to 67.70): VW
Ion 52.00 (51.70 to 52.70): VW

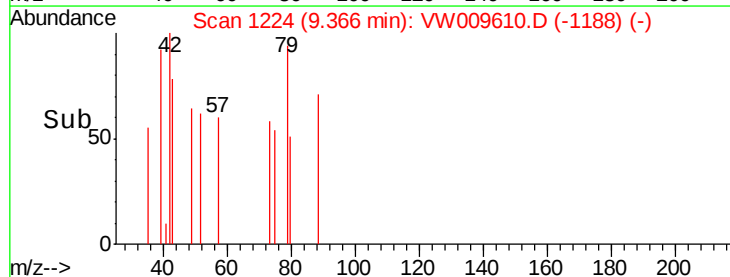
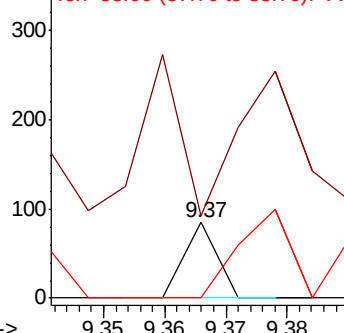


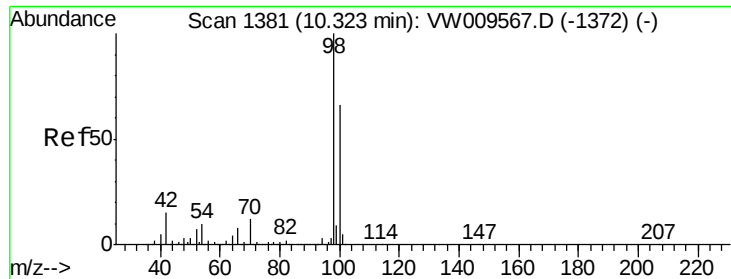
#49
1,4-Dioxane
Concen: 4.313 ug/l
RT: 9.37 min Scan# 1224
Delta R.T. -0.08 min
Lab File: VW009610.D
Acq: 31 Mar 2019 15:00

Tgt Ion: 88 Resp: 31
Ion Ratio Lower Upper
88 100
43 580.6 29.7 44.5#
58 0.0 58.1 87.1#



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: 41.485 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

Instrument :

MSVOA_W

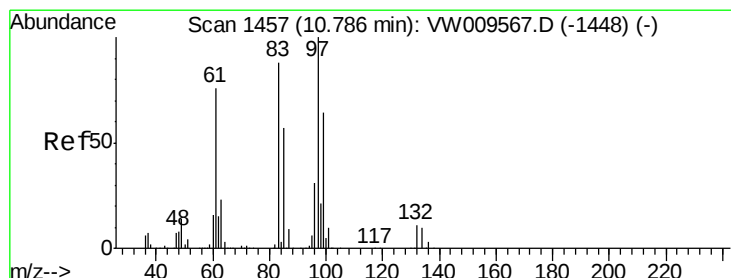
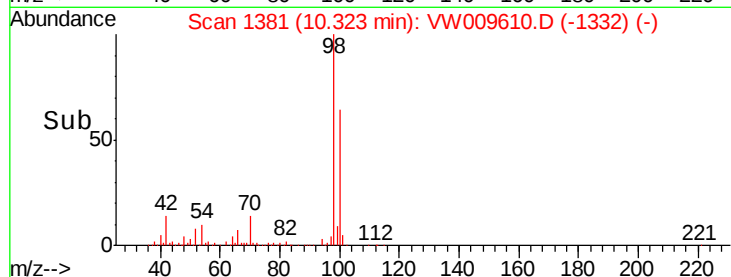
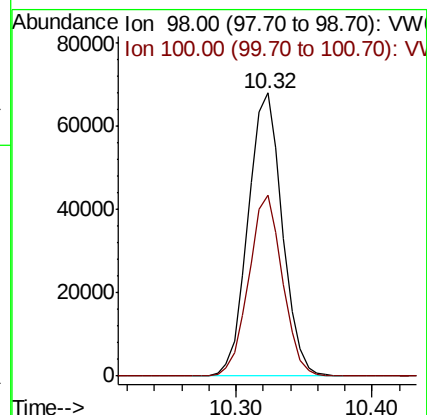
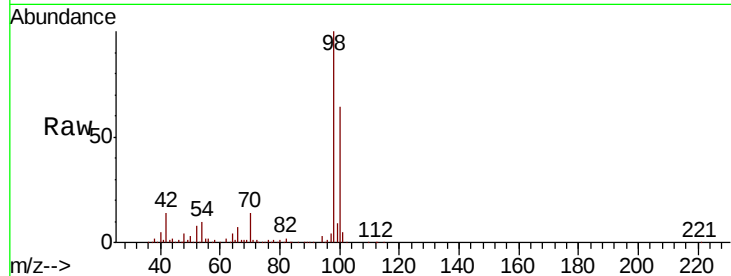
ClientSampleId :

Tot Ion: 98 Resp: 119664

Ion Ratio Lower Upper

98 100

100 62.9 52.6 79.0



#55

1,1,2-Trichloroethane

Concen: 1.654 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

Tgt Ion: 97 Resp: 1079

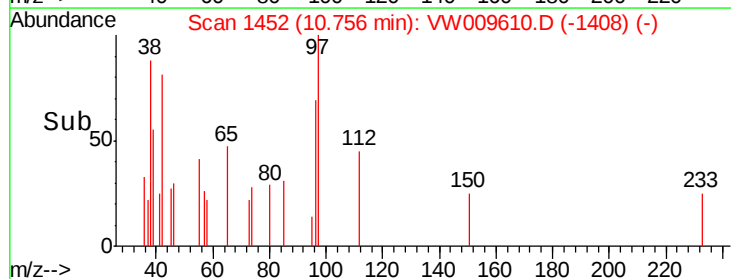
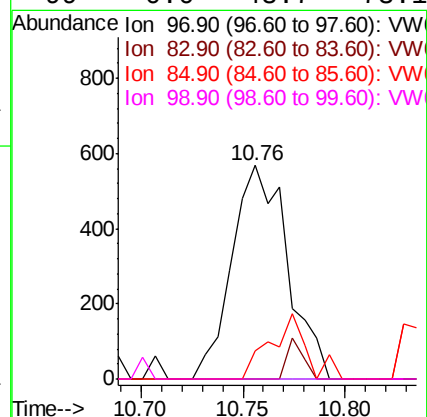
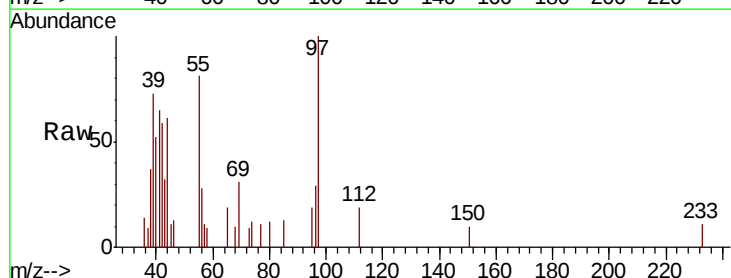
Ion Ratio Lower Upper

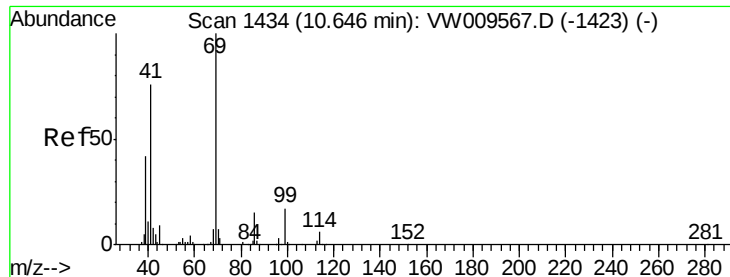
97 100

83 0.0 66.3 99.5#

85 13.0 41.4 62.2#

99 0.0 48.7 73.1#





#56

Ethyl methacrylate

Concen: 4.244 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

Instrument :

MSVOA_W

ClientSampled :

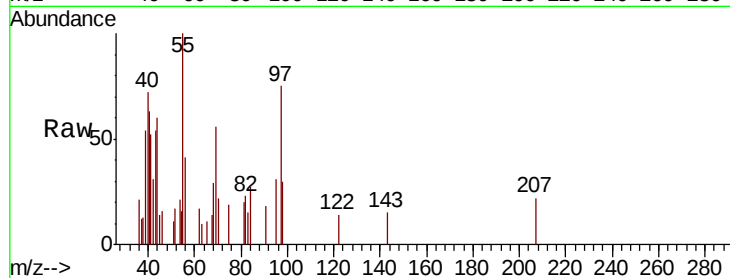
Tot Ion: 69 Resp: 438

Ion Ratio Lower Upper

69 100

41 273.1 59.3 88.9#

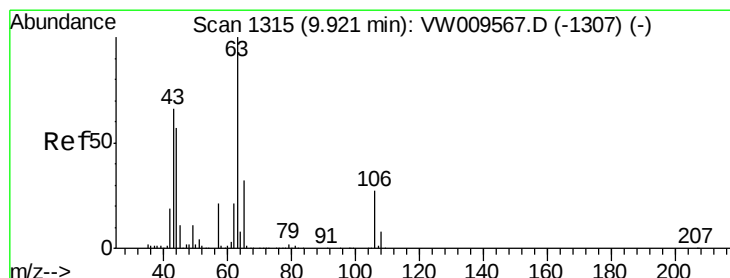
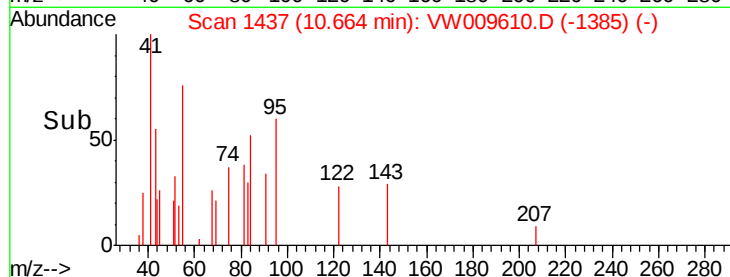
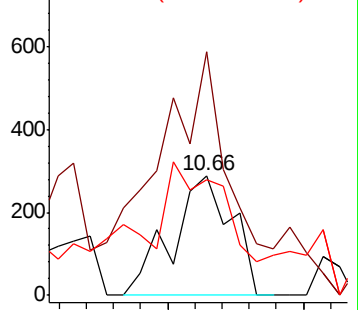
39 89.7 36.2 54.2#



Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW



#58

2-Chloroethyl Vinyl ether

Concen: 17.062 ug/l

RT: 9.85 min Scan# 1304

Delta R.T. -0.07 min

Lab File: VW009610.D

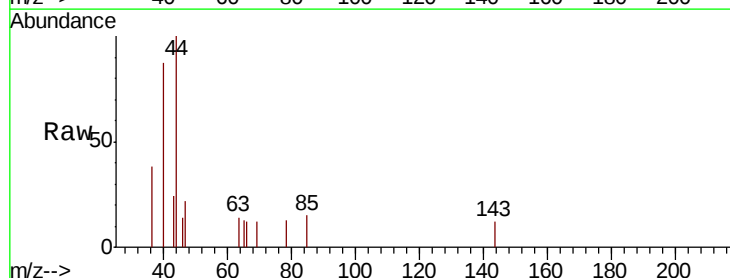
Acq: 31 Mar 2019 15:00

Tgt Ion: 63 Resp: 21

Ion Ratio Lower Upper

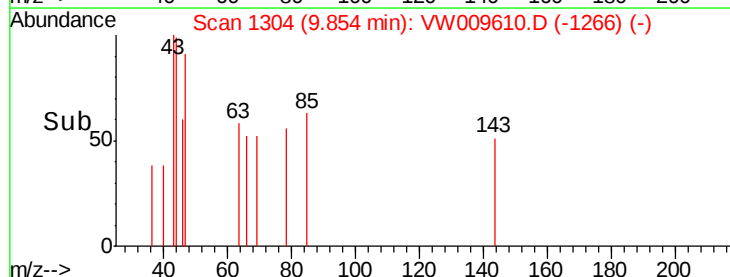
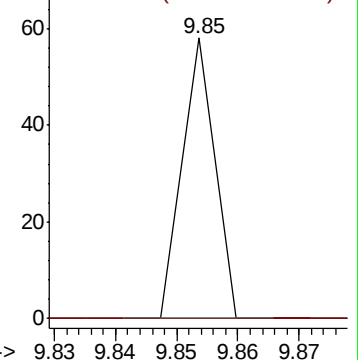
63 100

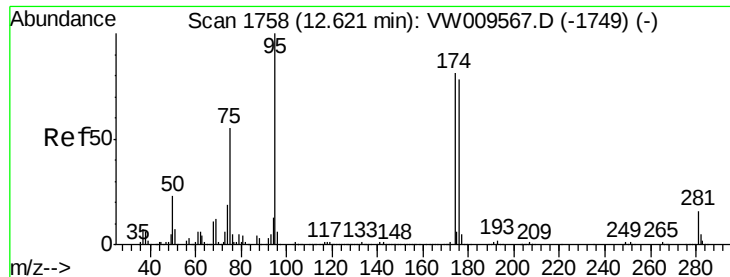
106 0.0 22.9 34.3#



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 105.90 (105.60 to 106.60): V





#62

4-Bromofluorobenzene

Concen: 32.508 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.00 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

Instrument :

MSVOA_W

ClientSampleId :

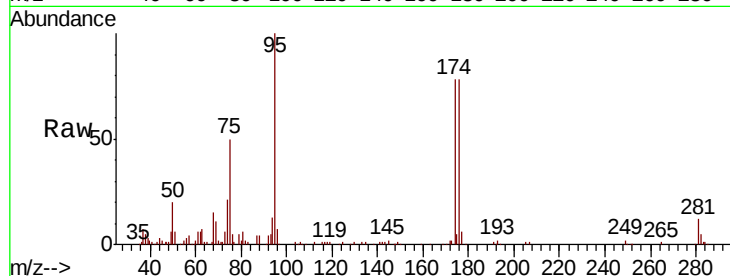
Tot Ion: 95 Resp: 34982

Ion Ratio Lower Upper

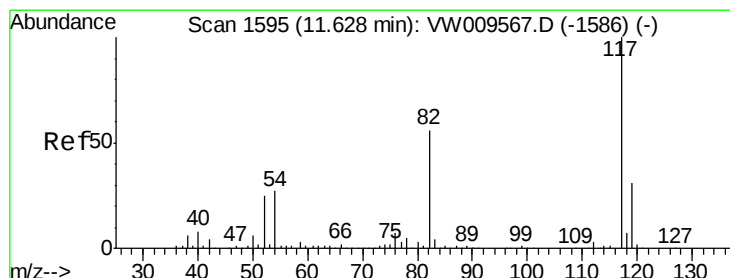
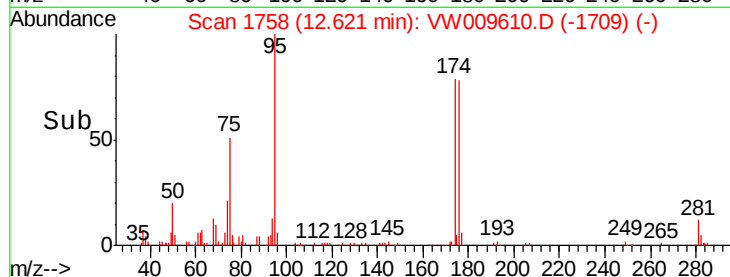
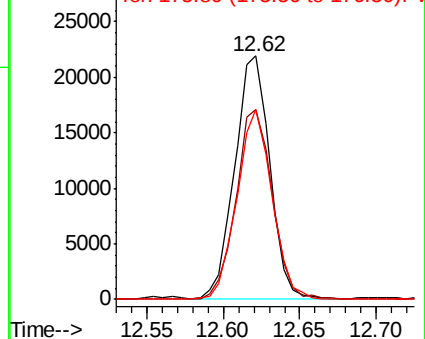
95 100

174 80.3 0.0 168.4

176 77.6 0.0 161.6



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# 1595

Delta R.T. -0.00 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

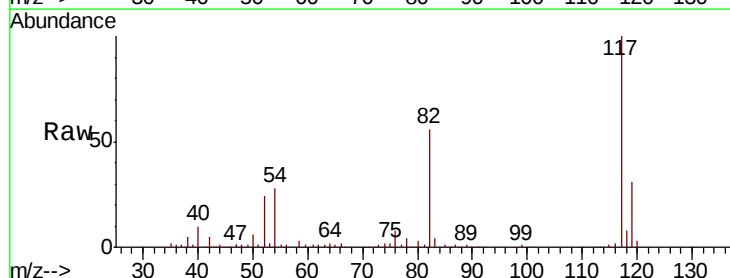
Tgt Ion: 117 Resp: 107149

Ion Ratio Lower Upper

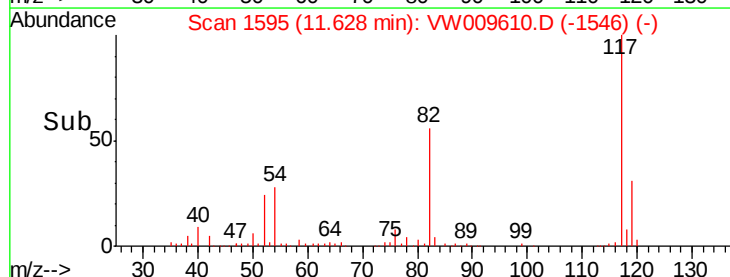
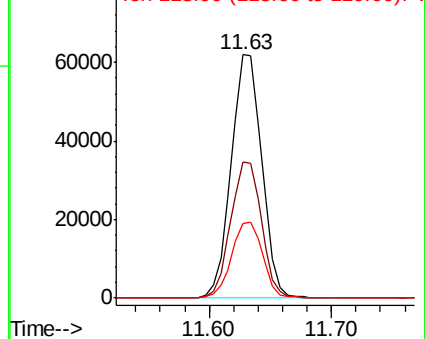
117 100

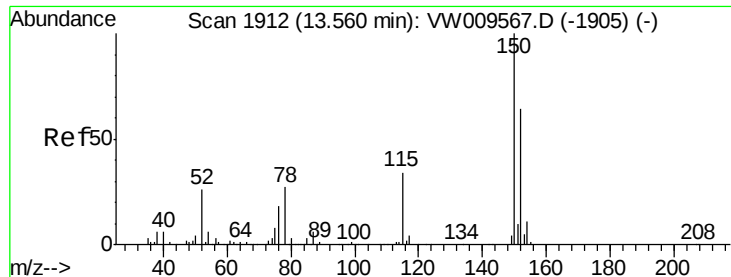
82 56.1 43.6 65.4

119 30.9 26.0 39.0



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: VW009610.D

Acq: 31 Mar 2019 15:00

Instrument :

MSVOA_W

ClientSampleId :

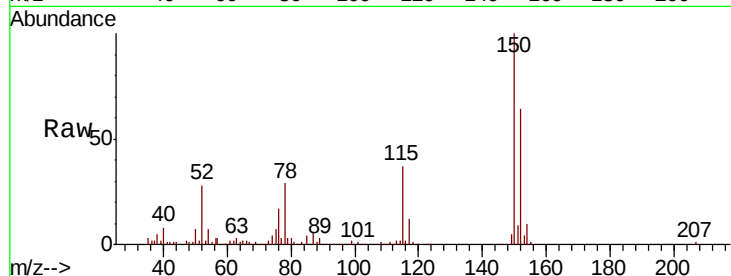
Tot Ion:152 Resp: 42770

Ion Ratio Lower Upper

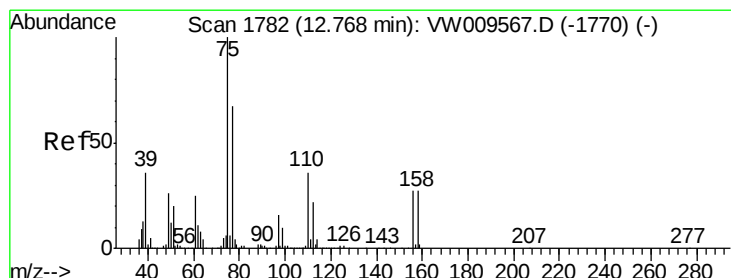
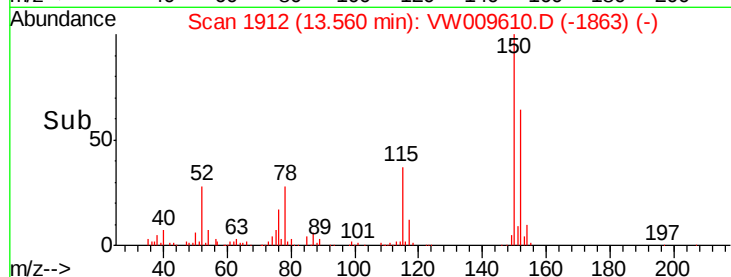
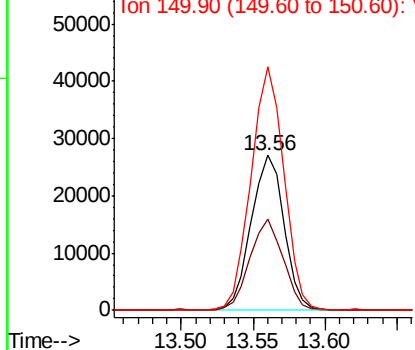
152 100

115 59.6 29.6 88.8

150 156.9 0.0 349.2



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



#76

1,2,3-Trichloropropane

Concen: 47.232 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. -0.15 min

Lab File: VW009610.D

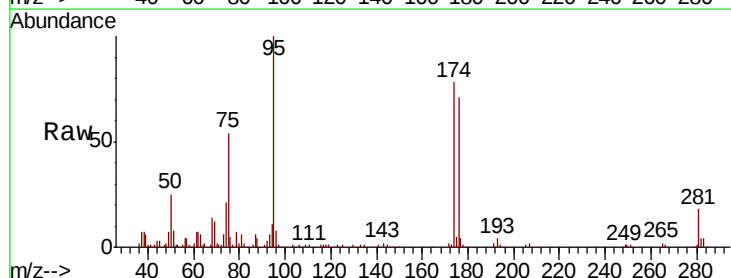
Acq: 31 Mar 2019 15:00

Tgt Ion: 75 Resp: 18997

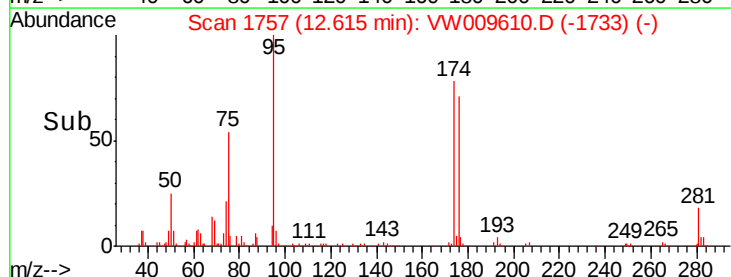
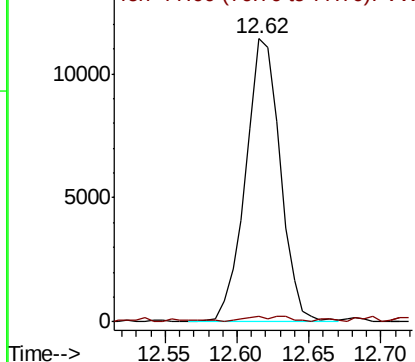
Ion Ratio Lower Upper

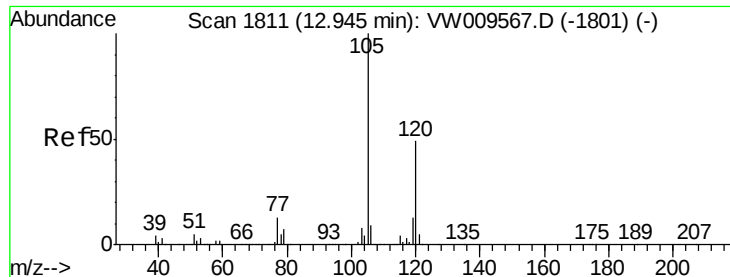
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 77.00 (76.70 to 77.70): VW

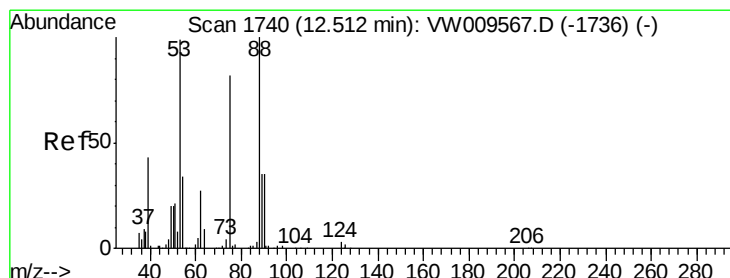
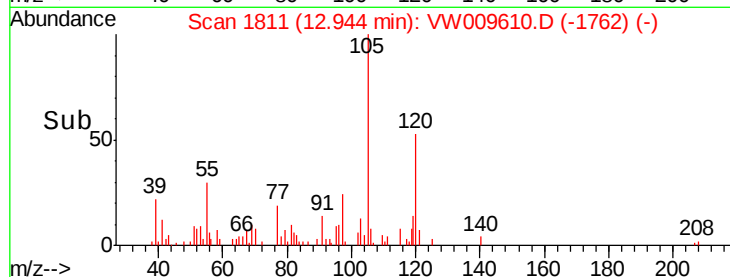
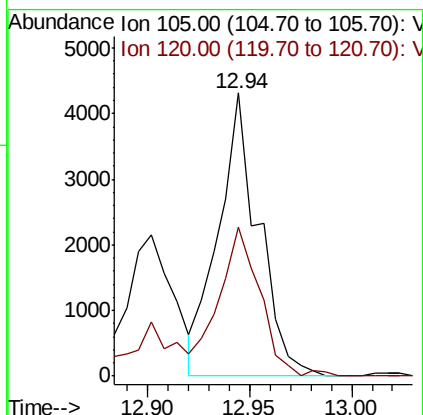
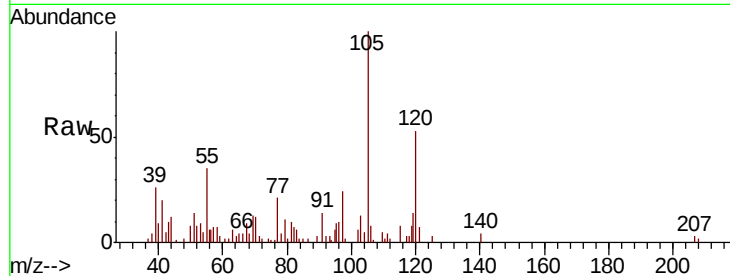




#80
 1,3,5-Trimethylbenzene
 Concen: 2.347 ug/l
 RT: 12.94 min Scan# 1811
 Delta R.T. -0.00 min
 Lab File: VW009610.D
 Acq: 31 Mar 2019 15:00

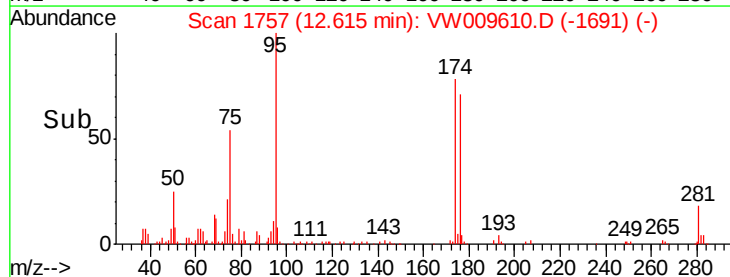
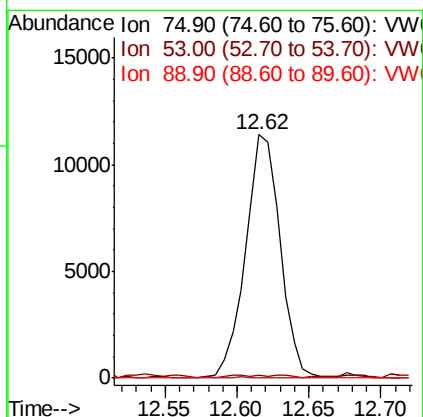
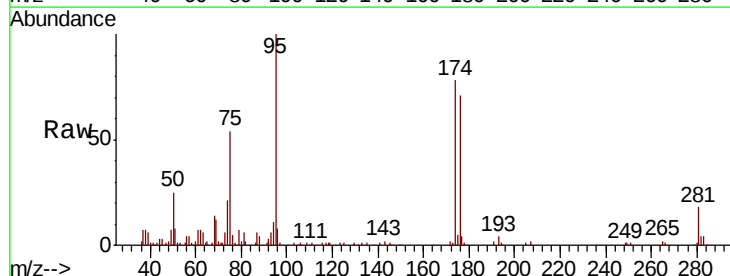
Instrument :
 MSVOA_W
 ClientSampled :

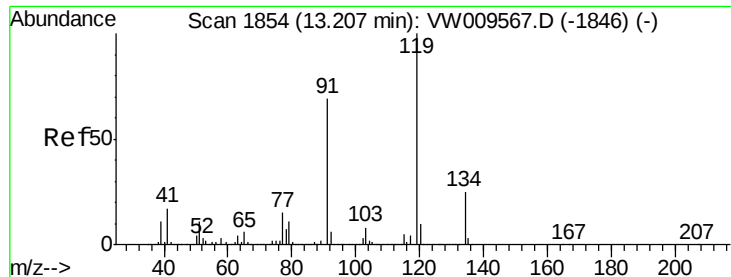
Tot Ion:105 Resp: 5882
 Ion Ratio Lower Upper
 105 100
 120 54.0 24.6 74.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 109.837 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW009610.D
 Acq: 31 Mar 2019 15:00

Tgt Ion: 75 Resp: 18997
 Ion Ratio Lower Upper
 75 100
 53 0.9 86.7 130.1#
 89 0.1 36.4 54.6#

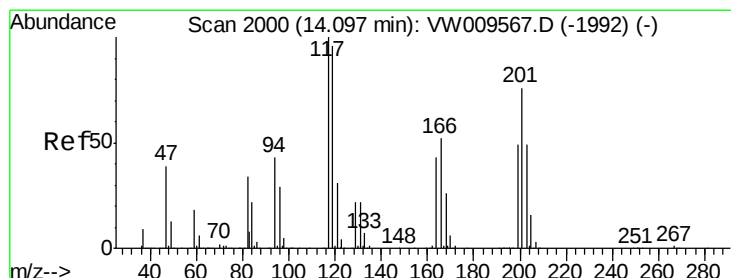
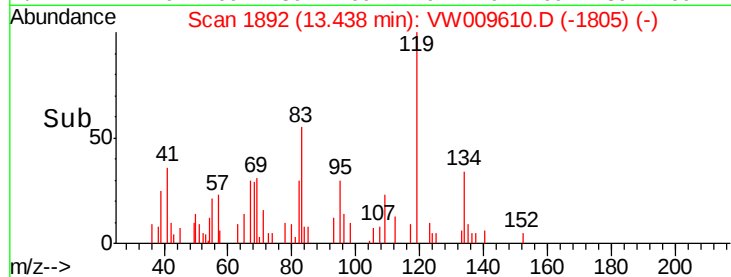
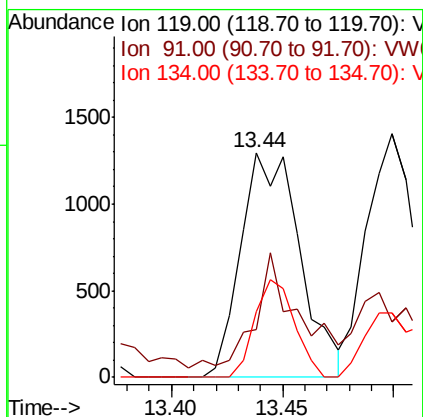
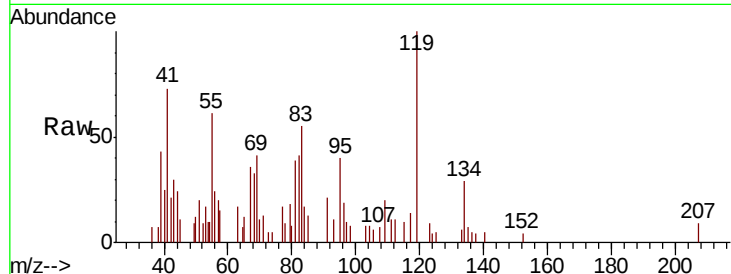




#83
tert-Butylbenzene
Concen: 1.125 ug/l
RT: 13.44 min Scan# 1892
Delta R.T. 0.23 min
Lab File: VW009610.D
Acq: 31 Mar 2019 15:00

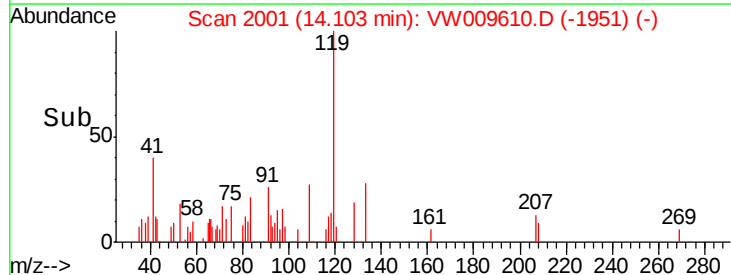
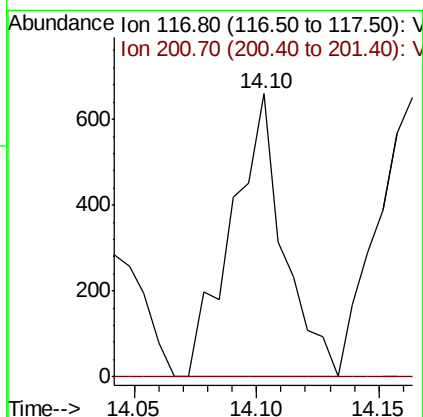
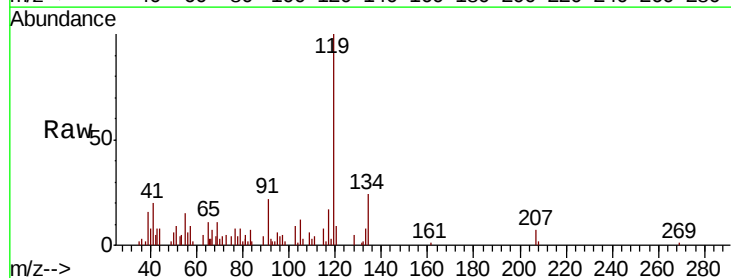
Instrument :
MSVOA_W
ClientSampled :

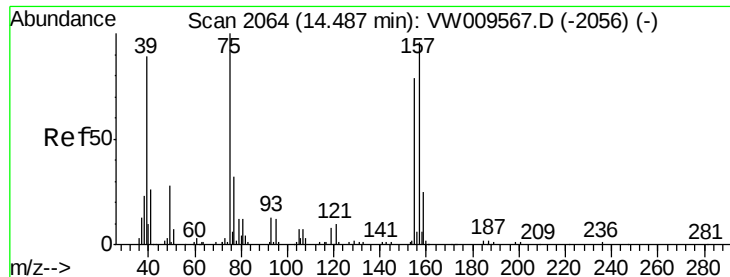
Tot Ion:119 Resp: 2401
Ion Ratio Lower Upper
119 100
91 34.7 34.4 103.2
134 29.2 12.7 38.1



#90
Hexachloroethane
Concen: 1.811 ug/l
RT: 14.10 min Scan# 2001
Delta R.T. 0.01 min
Lab File: VW009610.D
Acq: 31 Mar 2019 15:00

Tgt Ion:117 Resp: 971
Ion Ratio Lower Upper
117 100
201 0.0 38.2 114.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.323 ug/l

RT: 14.46 min Scan# 2060

Delta R.T. -0.02 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

Instrument :

MSVOA_W

ClientSampleId :

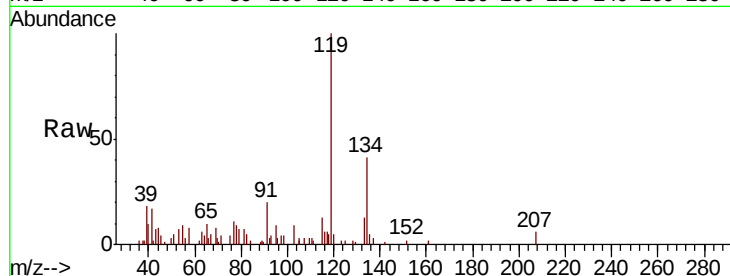
Tot Ion: 75 Resp: 136

Ion Ratio Lower Upper

75 100

155 0.0 39.3 117.8#

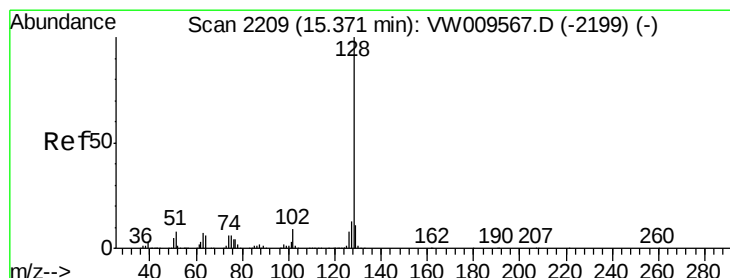
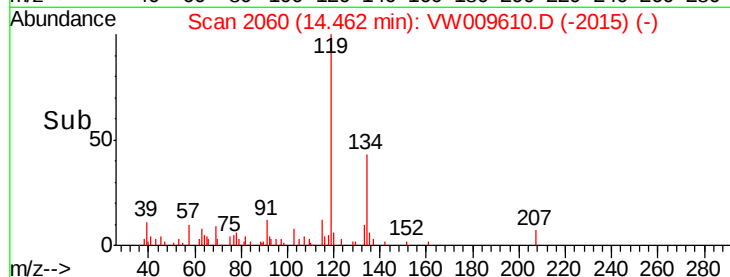
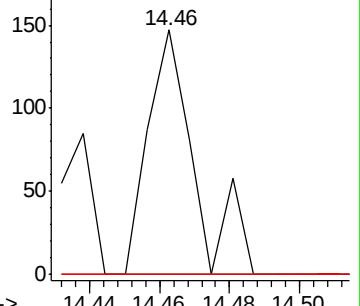
157 0.0 49.5 148.5#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 3.922 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW009610.D

Acq: 31 Mar 2019 15:00

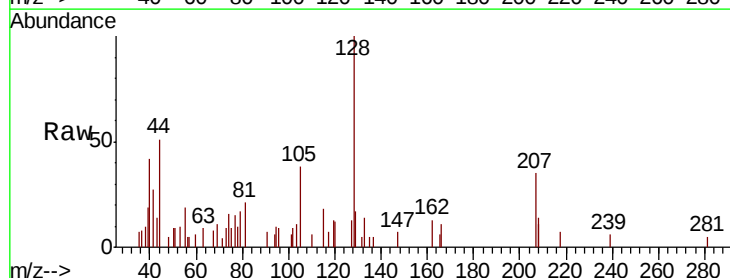
Tgt Ion: 128 Resp: 2102

Ion Ratio Lower Upper

128 100

127 15.4 10.8 16.2

129 10.0 8.7 13.1



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

