

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW033119\
 Data File : VW009615.D
 Acq On : 31 Mar 2019 17:15
 Operator : SY/VA
 Sample : K2132-04
 Misc : 6.64G/5.0ML/MSVOA W/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 01 04:56:09 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	275169	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	452507	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	408231	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	178238	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	98089	31.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	62.34%	
35) Dibromofluoromethane	7.88	113	79995	28.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	56.30%	
50) Toluene-d8	10.32	98	272353	25.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	51.86%	
62) 4-Bromofluorobenzene	12.62	95	90034	22.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	45.94%	

Target Compounds

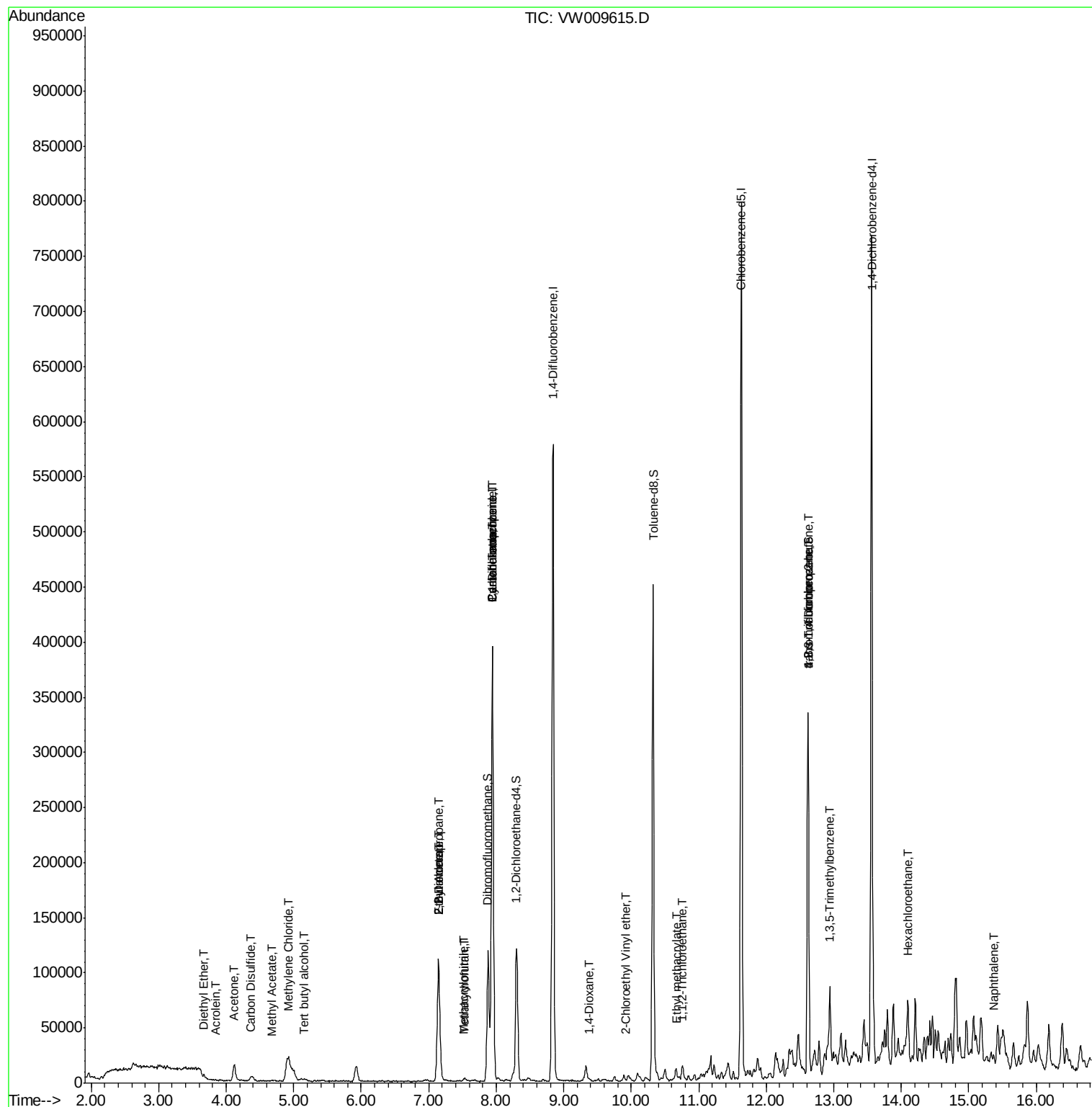
					Qvalue	
2) Dichlorodifluoromethane	2.00	85	88	Below Cal	#	41
8) Diethyl Ether	3.67	74	1651	1.162	ug/l	92
11) Tert butyl alcohol	5.15	59	294	1.611	ug/l #	70
13) Acrolein	3.85	56	198	1.480	ug/l	97
16) Acetone	4.12	43	27364	38.678	ug/l	93
17) Carbon Disulfide	4.37	76	9202	1.218	ug/l #	92
18) Methyl Acetate	4.68	43	2275	1.330	ug/l #	83
20) Methylene Chloride	4.92	84	22803	4.702	ug/l	94
25) 2-Butanone	7.15	43	7565	7.738	ug/l #	79
26) 2,2-Dichloropropane	7.14	77	6793	2.152	ug/l #	52
29) Tetrahydrofuran	7.54	42	2006	3.304	ug/l	93
31) Cyclohexane	7.94	56	7772	1.501	ug/l #	40
36) 1,1-Dichloropropene	7.94	75	25279	5.401	ug/l #	51
37) Ethyl Acetate	7.15	43	7565	3.402	ug/l #	72
38) Carbon Tetrachloride	7.95	117	28859	6.017	ug/l #	17
41) Methacrylonitrile	7.51	41	693	4.363	ug/l #	25
49) 1,4-Dioxane	9.38	88	28	1.070	ug/l #	1
55) 1,1,2-Trichloroethane	10.76	97	4246	1.787	ug/l #	20
56) Ethyl methacrylate	10.66	69	1799	4.302	ug/l #	65
58) 2-Chloroethyl Vinyl ether	9.92	63	52	17.047	ug/l #	46
76) 1,2,3-Trichloropropane	12.62	75	49906	29.775	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.94	105	20548	1.967	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.62	75	49906	69.240	ug/l #	7
90) Hexachloroethane	14.09	117	2955	1.322	ug/l #	11
95) Naphthalene	15.37	128	2522	3.068	ug/l #	82

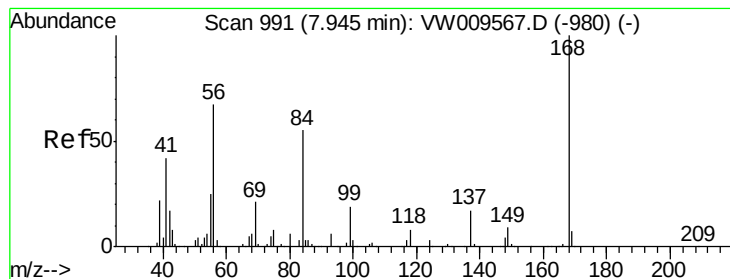
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW033119\
Data File : VW009615.D
Acq On : 31 Mar 2019 17:15
Operator : SY/VA
Sample : K2132-04
Misc : 6.64G/5.0ML/MSVOA W/SOIL
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :

Quant Time: Apr 01 04:56:09 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: VW009615.D

Acq: 31 Mar 2019 17:15

Instrument :

MSVOA_W

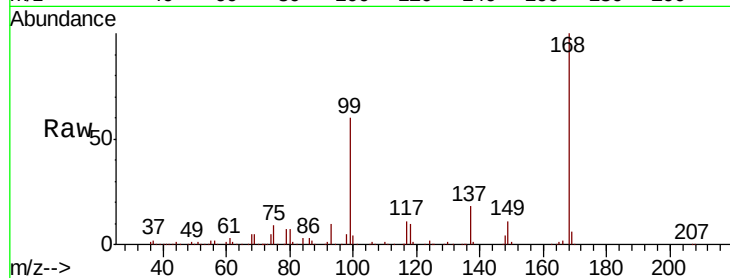
ClientSampleId :

Tot Ion:168 Resp: 275169

Ion Ratio Lower Upper

168 100

99 59.9 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

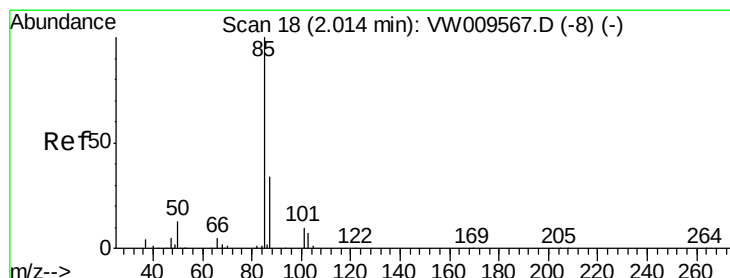
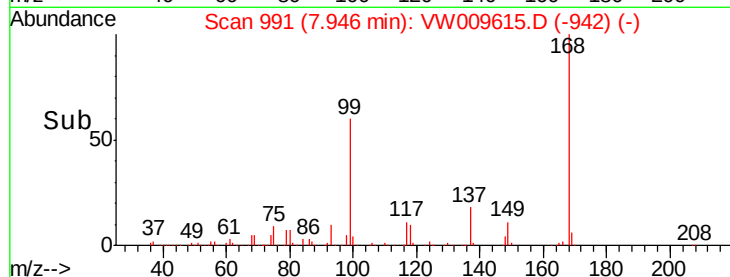
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.00 min Scan# 16

Delta R.T. -0.01 min

Lab File: VW009615.D

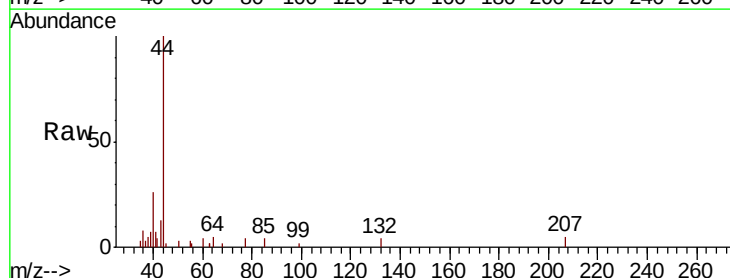
Acq: 31 Mar 2019 17:15

Tgt Ion: 85 Resp: 88

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

2.00

100

80

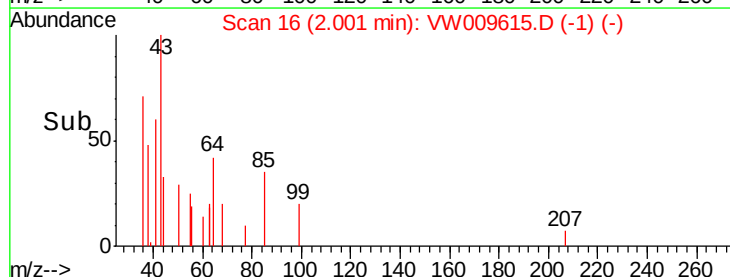
60

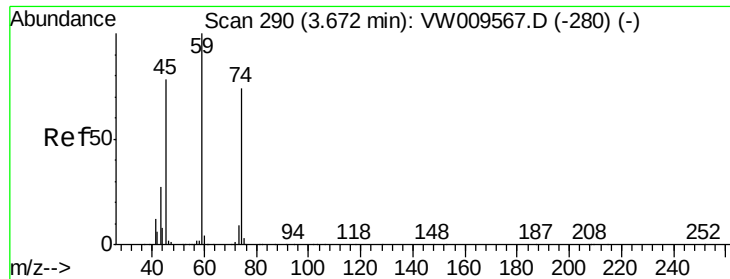
40

20

0

Time-->





#8

Diethyl Ether

Concen: 1.162 ug/l

RT: 3.67 min Scan# 289

Delta R.T. -0.01 min

Lab File: VW009615.D

Acq: 31 Mar 2019 17:15

Instrument :

MSVOA_W

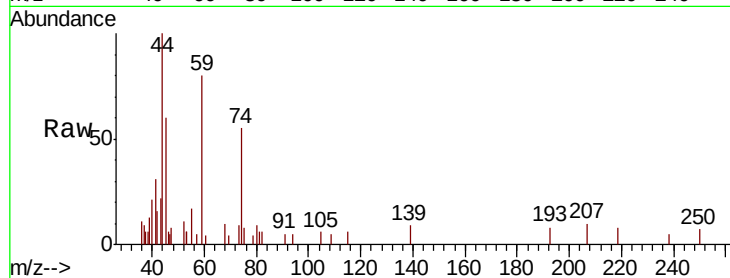
ClientSampled :

Tot Ion: 74 Resp: 1651

Ion Ratio Lower Upper

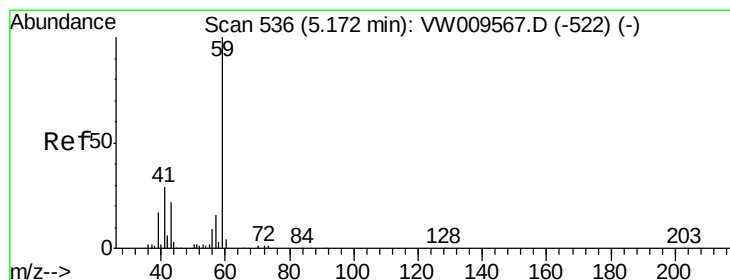
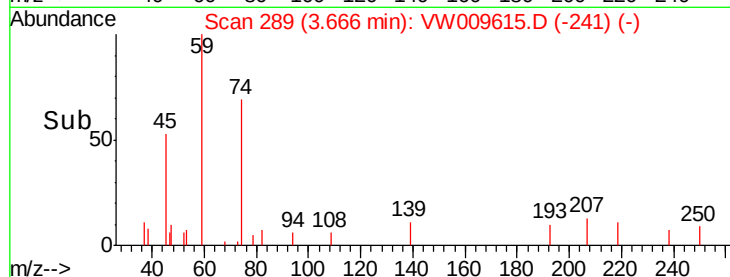
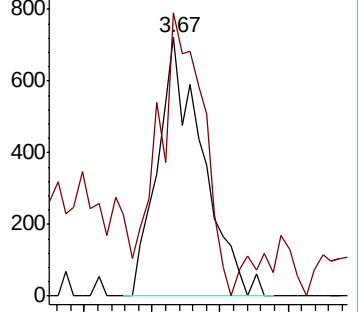
74 100

45 109.2 50.6 151.9



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW



#11

Tert butyl alcohol

Concen: 1.611 ug/l

RT: 5.15 min Scan# 532

Delta R.T. -0.02 min

Lab File: VW009615.D

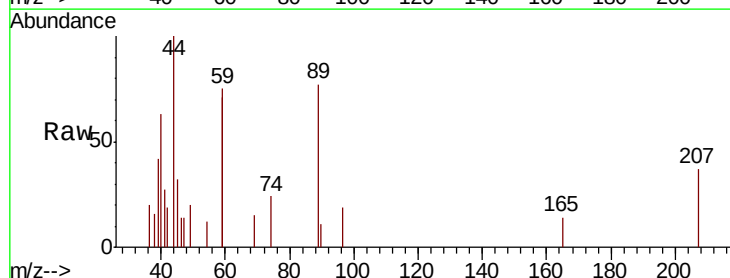
Acq: 31 Mar 2019 17:15

Tgt Ion: 59 Resp: 294

Ion Ratio Lower Upper

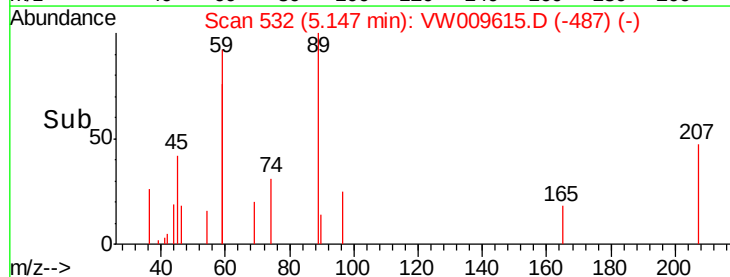
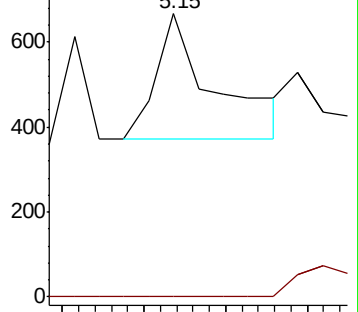
59 100

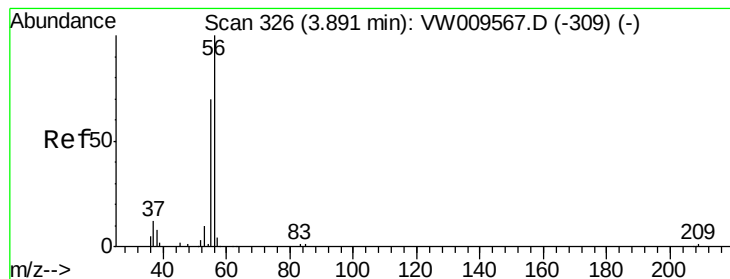
57 0.0 9.4 14.0#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 1.480 ug/l

RT: 3.85 min Scan# 319

Delta R.T. -0.04 min

Lab File: VW009615.D

Acq: 31 Mar 2019 17:15

Instrument :

MSVOA_W

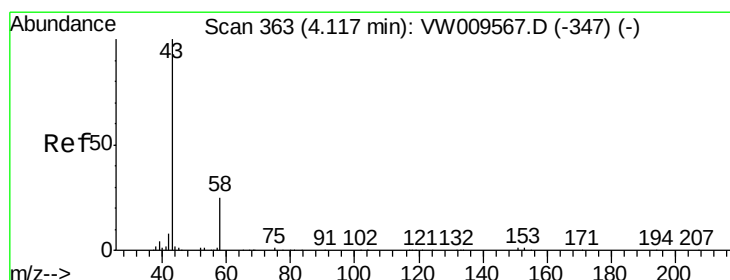
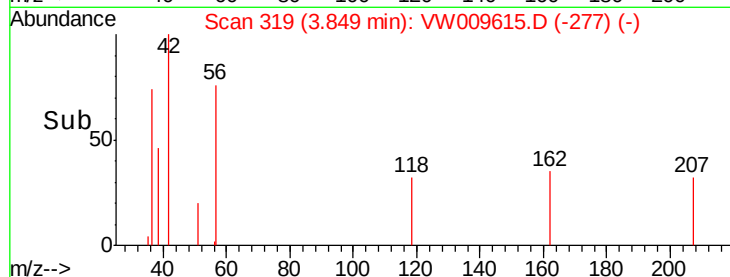
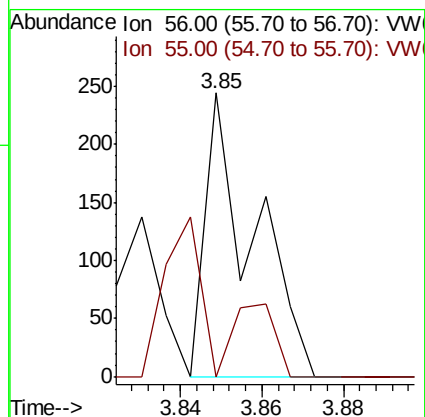
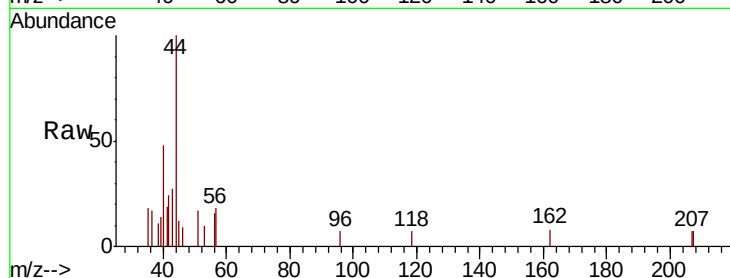
ClientSampleId :

Tot Ion: 56 Resp: 198

Ion Ratio Lower Upper

56 100

55 66.2 55.2 82.8



#16

Acetone

Concen: 38.678 ug/l

RT: 4.12 min Scan# 363

Delta R.T. 0.00 min

Lab File: VW009615.D

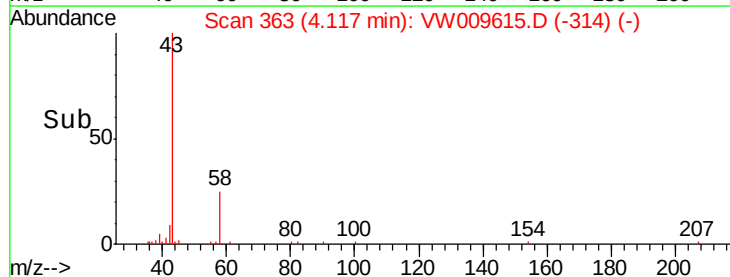
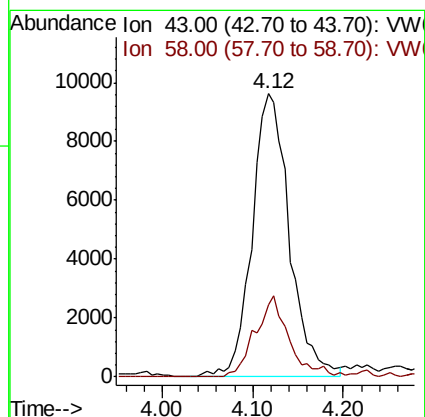
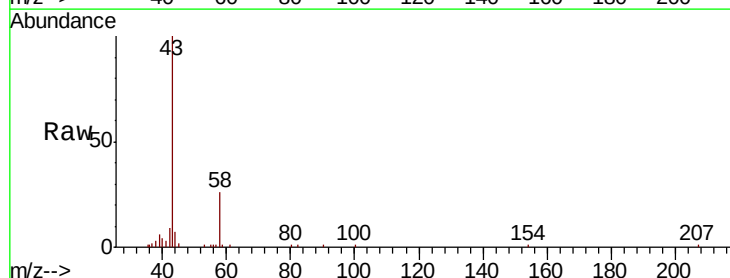
Acq: 31 Mar 2019 17:15

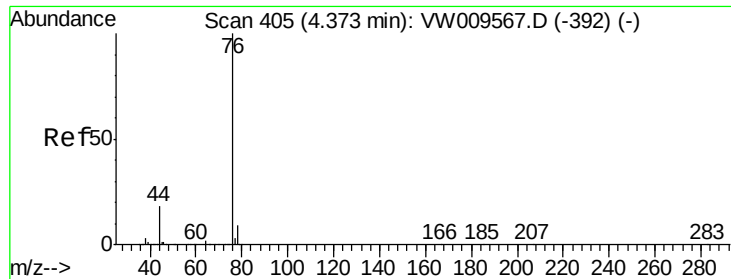
Tgt Ion: 43 Resp: 27364

Ion Ratio Lower Upper

43 100

58 25.7 23.6 35.4

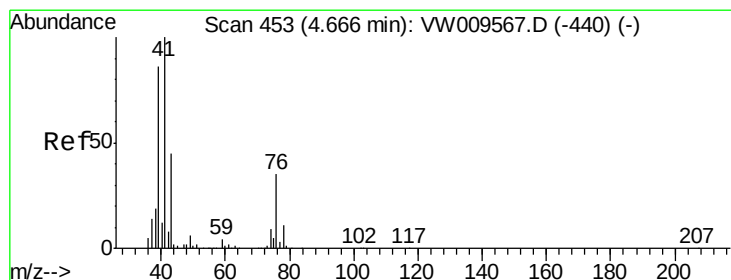
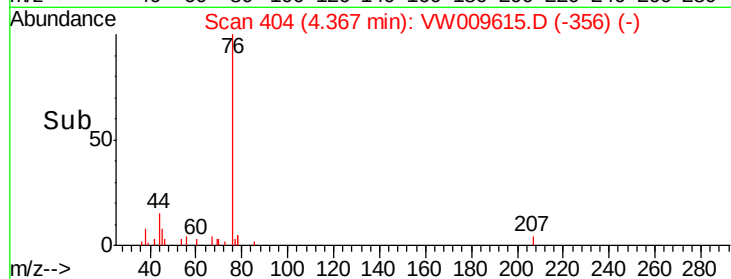
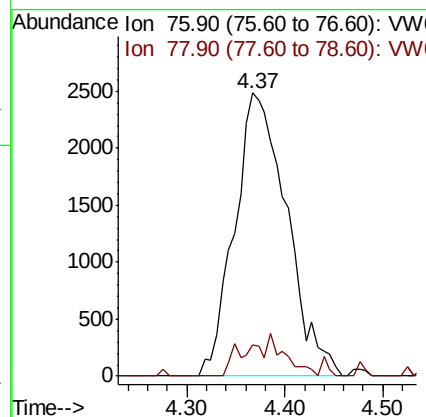
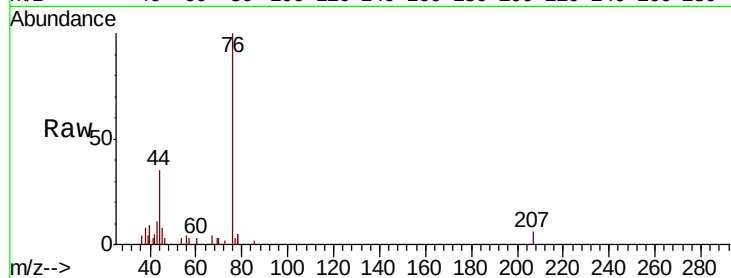




#17
Carbon Disulfide
Concen: 1.218 ug/l
RT: 4.37 min Scan# 404
Delta R.T. -0.01 min
Lab File: VW009615.D
Acq: 31 Mar 2019 17:15

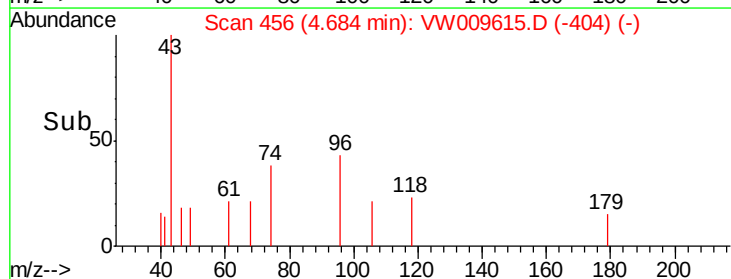
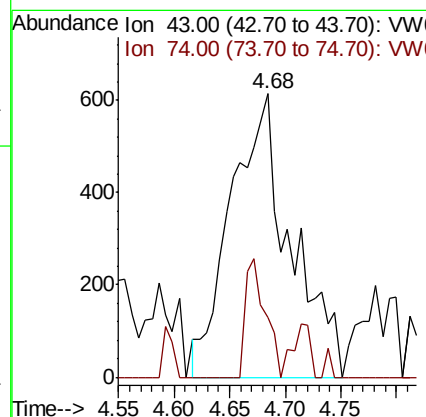
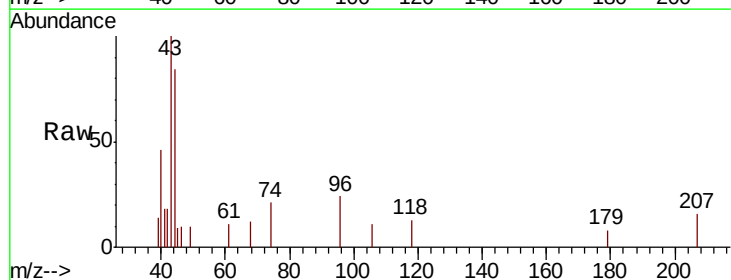
Instrument :
MSVOA_W
ClientSampled :

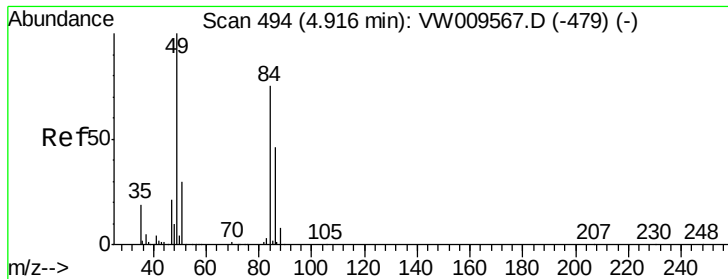
Tot Ion: 76 Resp: 9202
Ion Ratio Lower Upper
76 100
78 10.9 6.6 9.8#



#18
Methyl Acetate
Concen: 1.330 ug/l
RT: 4.68 min Scan# 456
Delta R.T. 0.02 min
Lab File: VW009615.D
Acq: 31 Mar 2019 17:15

Tgt Ion: 43 Resp: 2275
Ion Ratio Lower Upper
43 100
74 13.9 17.7 26.5#

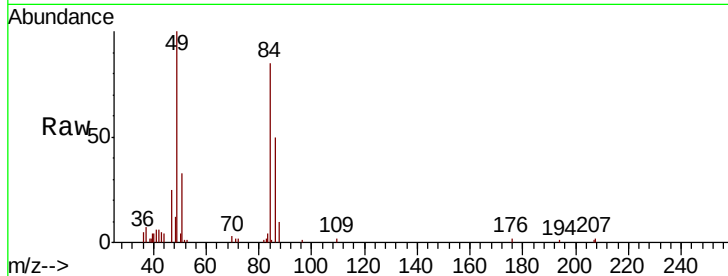




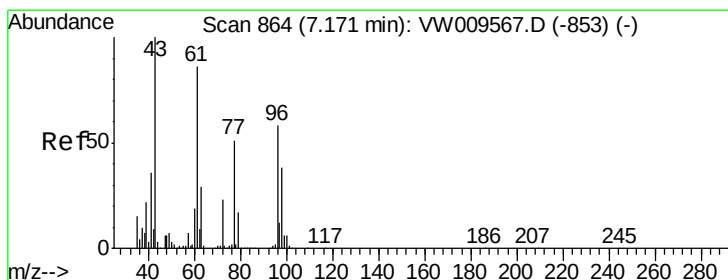
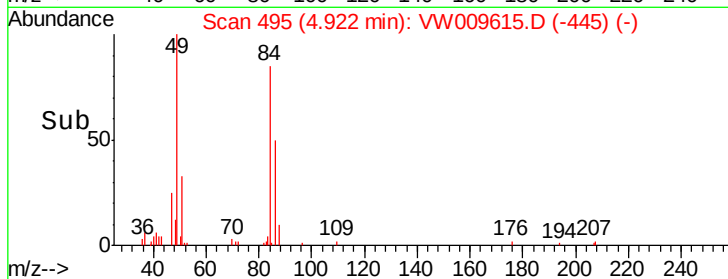
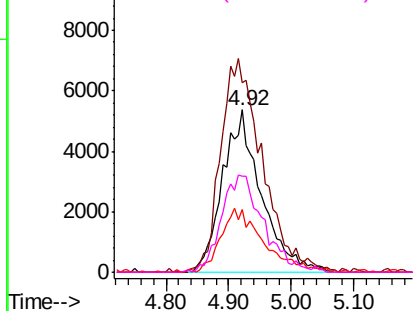
#20
Methylene Chloride
Concen: 4.702 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW009615.D
Acq: 31 Mar 2019 17:15

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 84 Resp: 22803
Ion Ratio Lower Upper
84 100
49 117.0 99.1 148.7
51 39.0 28.7 43.1
86 58.8 50.5 75.7

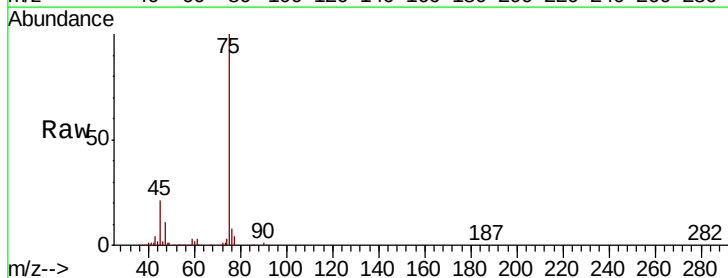


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

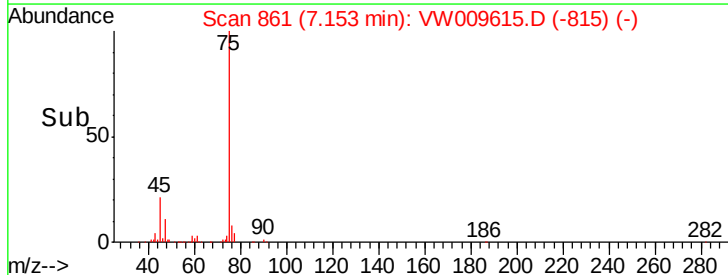
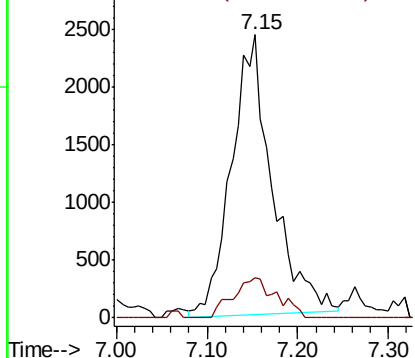


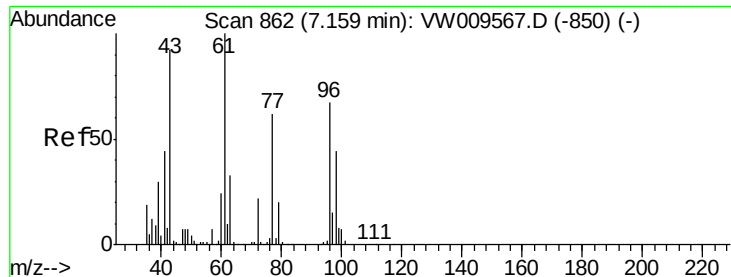
#25
2-Butanone
Concen: 7.738 ug/l
RT: 7.15 min Scan# 861
Delta R.T. -0.02 min
Lab File: VW009615.D
Acq: 31 Mar 2019 17:15

Tgt Ion: 43 Resp: 7565
Ion Ratio Lower Upper
43 100
72 14.4 20.0 30.0#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW





#26

2,2-Dichloropropane

Concen: 2.152 ug/l

RT: 7.14 min Scan# 859

Delta R.T. -0.02 min

Lab File: VW009615.D

Acq: 31 Mar 2019 17:15

Instrument :

MSVOA_W

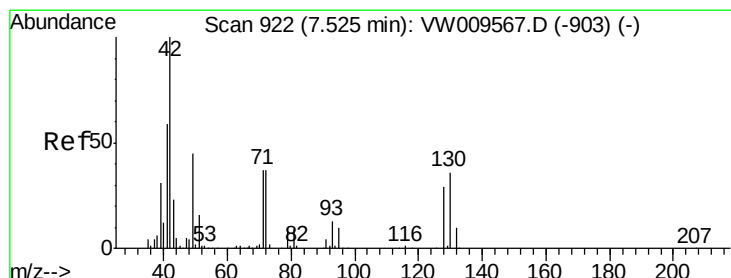
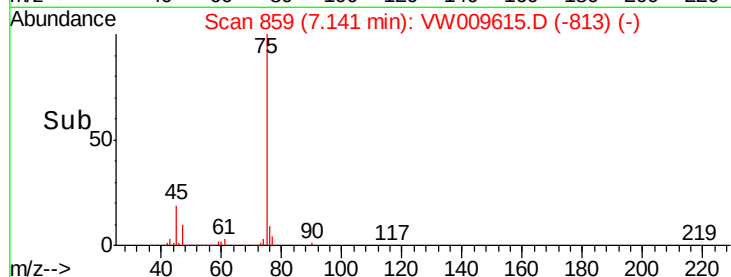
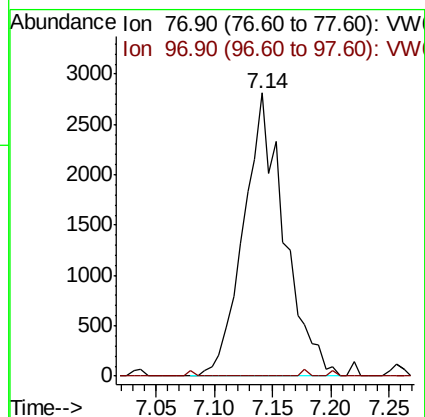
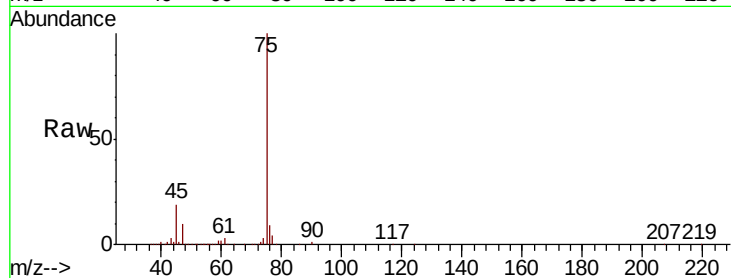
ClientSampleId :

Tot Ion: 77 Resp: 6793

Ion Ratio Lower Upper

77 100

97 0.0 11.6 34.7#



#29

Tetrahydrofuran

Concen: 3.304 ug/l

RT: 7.54 min Scan# 924

Delta R.T. 0.01 min

Lab File: VW009615.D

Acq: 31 Mar 2019 17:15

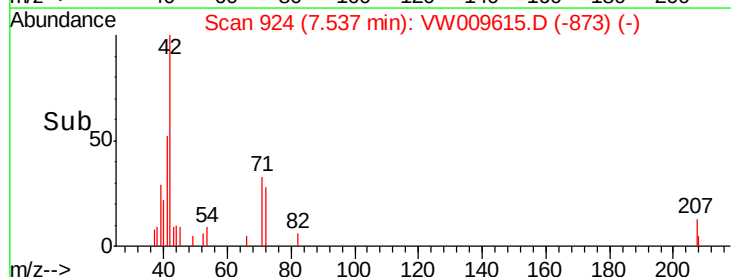
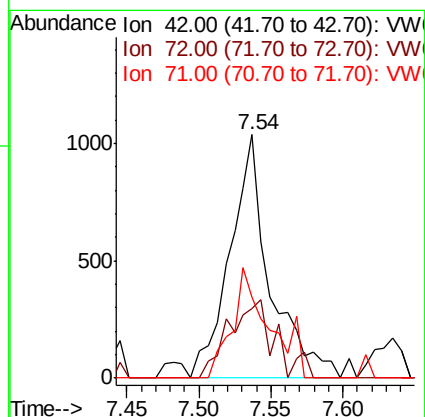
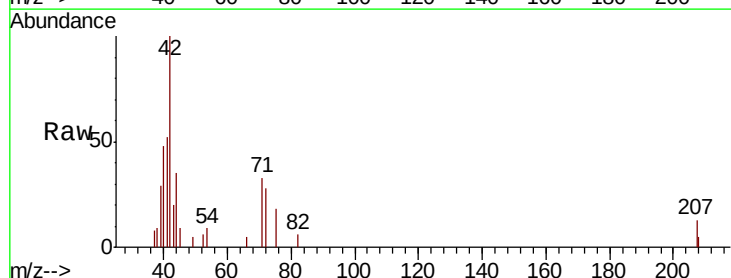
Tgt Ion: 42 Resp: 2006

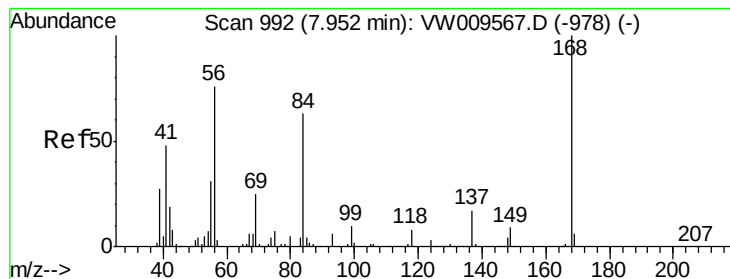
Ion Ratio Lower Upper

42 100

72 36.9 32.4 48.6

71 42.5 30.1 45.1





#31

Cyclohexane

Concen: 1.501 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.01 min

Lab File: VW009615.D

Acq: 31 Mar 2019 17:15

Instrument :
MSVOA_W
ClientSampled :

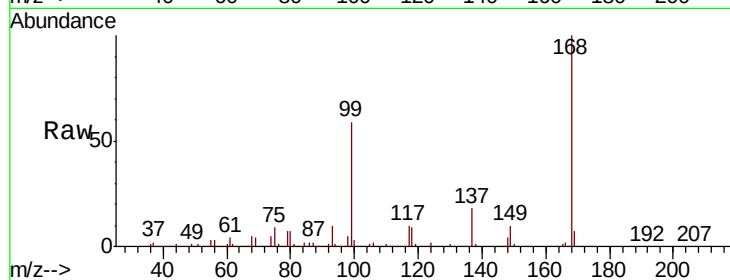
Tot Ion: 56 Resp: 7772

Ion Ratio Lower Upper

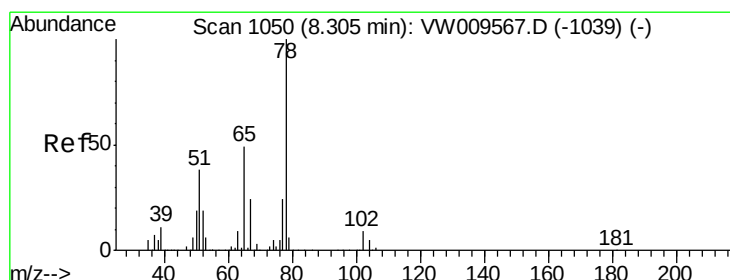
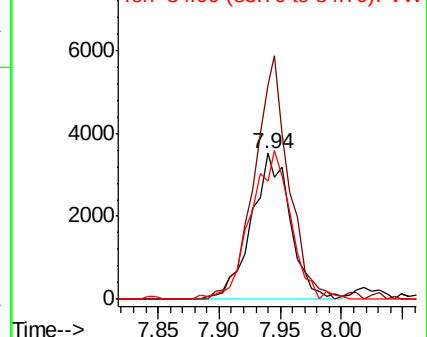
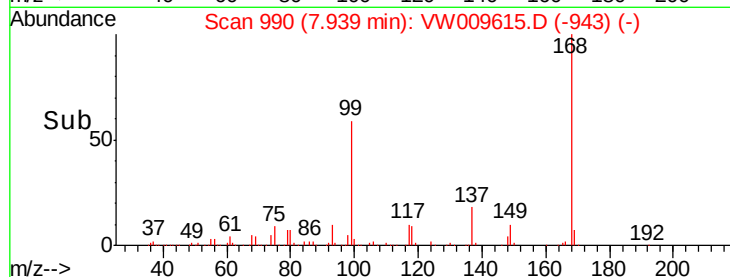
56 100

69 146.9 26.1 39.1#

84 81.1 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: 31.172 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW009615.D

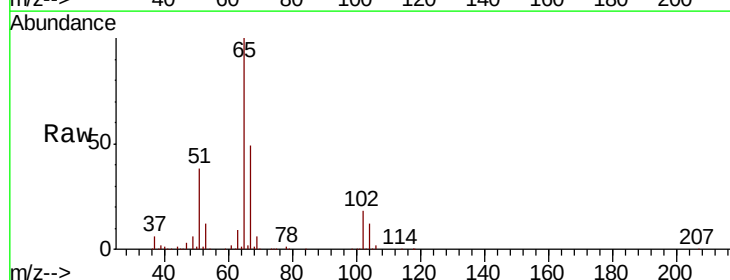
Acq: 31 Mar 2019 17:15

Tgt Ion: 65 Resp: 98089

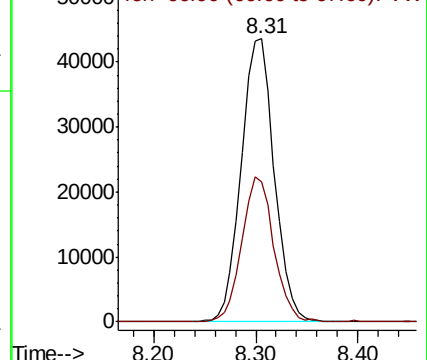
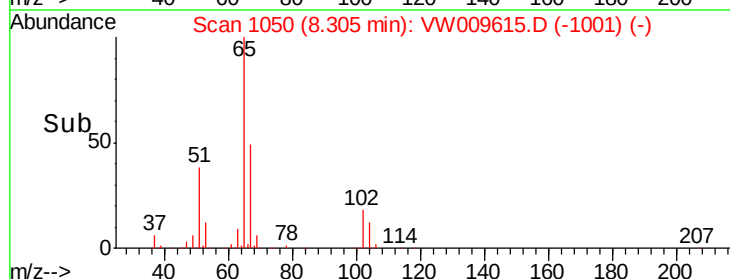
Ion Ratio Lower Upper

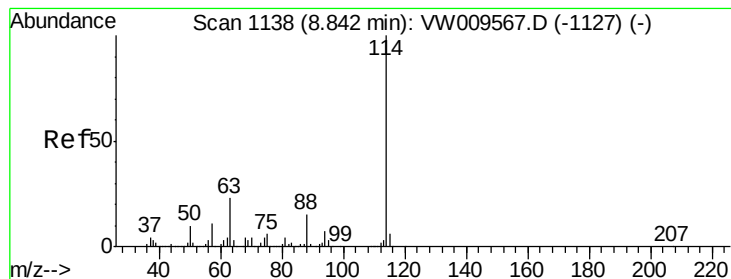
65 100

67 49.5 0.0 102.4



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: VW009615.D

Acq: 31 Mar 2019 17:15

Instrument :

MSVOA_W

ClientSampleId :

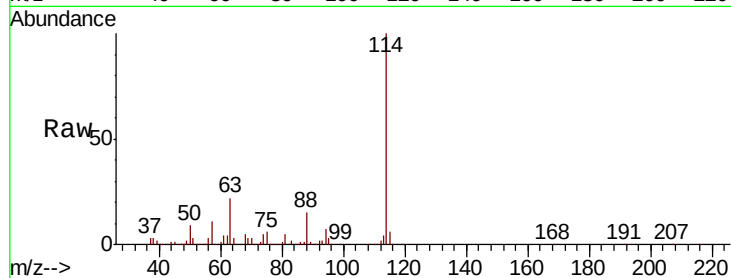
Tot Ion:114 Resp: 452507

Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.2

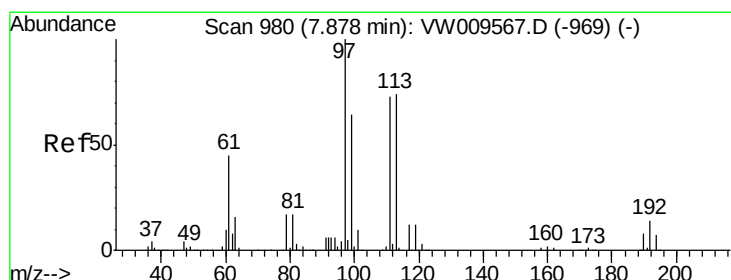
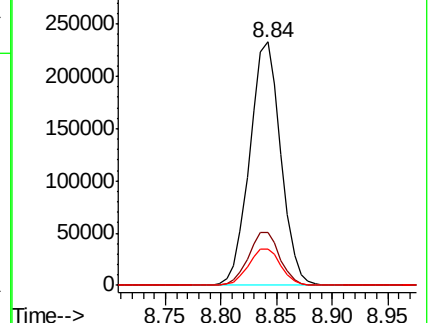
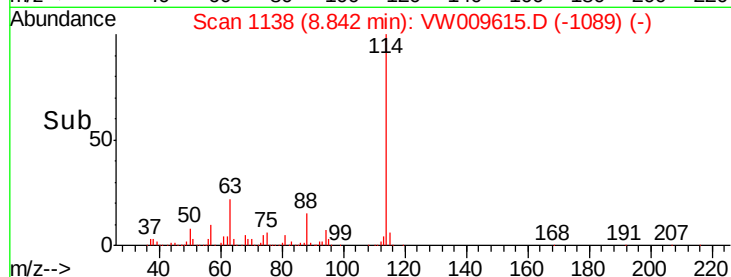
88 15.1 0.0 30.8



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: 28.146 ug/l

RT: 7.88 min Scan# 980

Delta R.T. 0.00 min

Lab File: VW009615.D

Acq: 31 Mar 2019 17:15

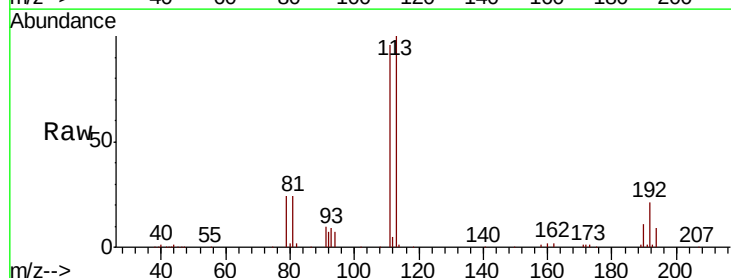
Tgt Ion:113 Resp: 79995

Ion Ratio Lower Upper

113 100

111 101.5 82.6 124.0

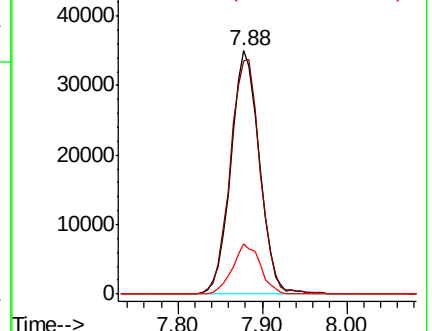
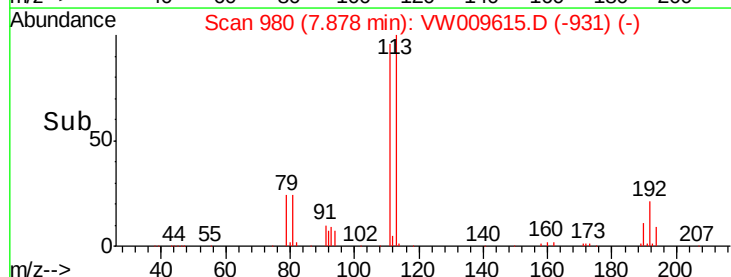
192 20.0 16.4 24.6

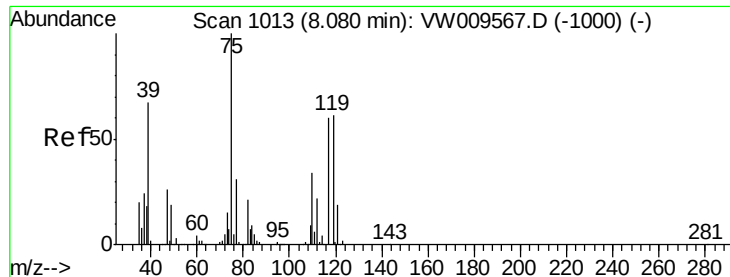


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.401 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.14 min

Lab File: VW009615.D

Acq: 31 Mar 2019 17:15

Instrument :

MSVOA_W

ClientSampled :

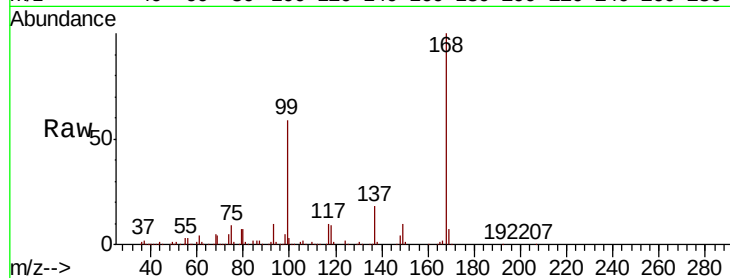
Tot Ion: 75 Resp: 25279

Ion Ratio Lower Upper

75 100

110 9.3 16.8 50.4#

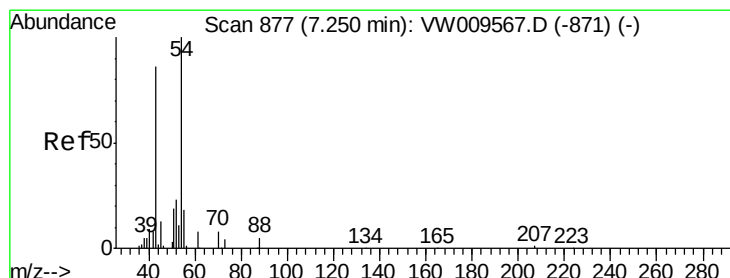
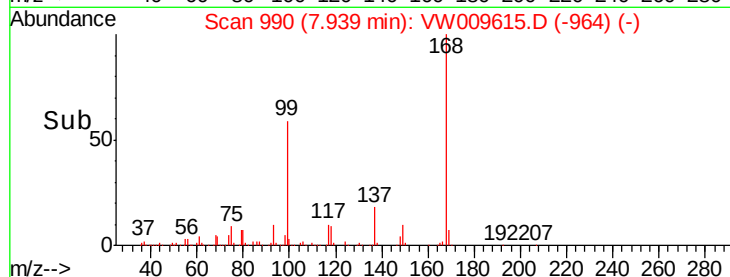
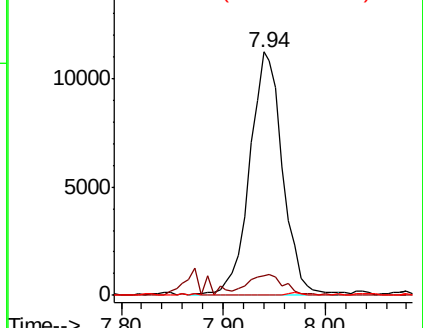
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): VW

Ion 76.90 (76.60 to 77.60): VW



#37

Ethyl Acetate

Concen: 3.402 ug/l

RT: 7.15 min Scan# 861

Delta R.T. -0.10 min

Lab File: VW009615.D

Acq: 31 Mar 2019 17:15

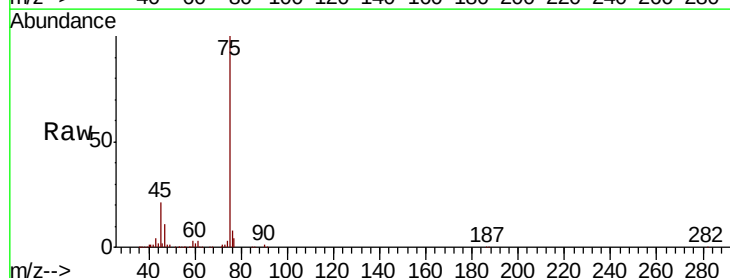
Tgt Ion: 43 Resp: 7565

Ion Ratio Lower Upper

43 100

61 0.0 10.0 15.0#

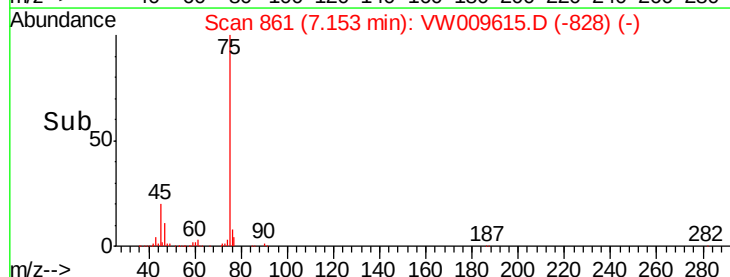
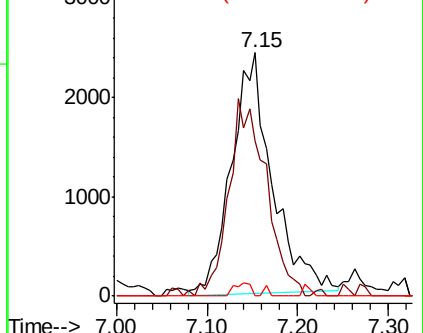
70 0.5 7.3 10.9#

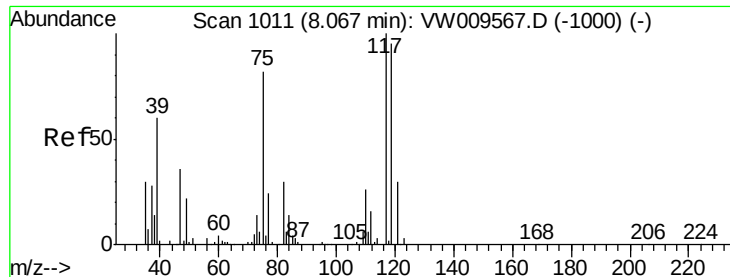


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 70.00 (69.70 to 70.70): VW

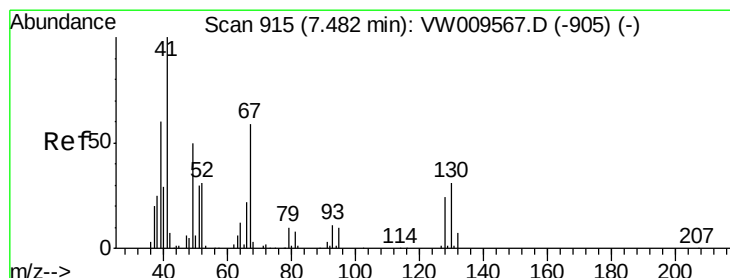
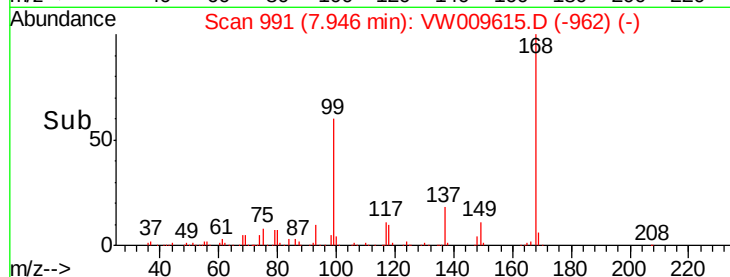
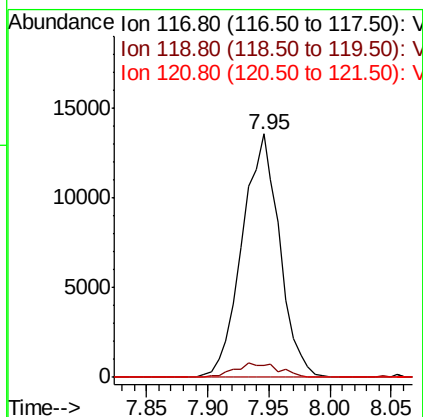
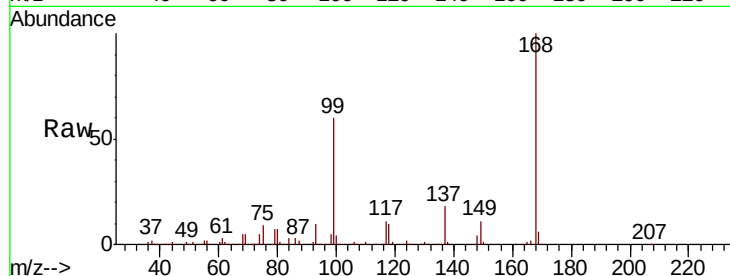




#38
Carbon Tetrachloride
Concen: 6.017 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.12 min
Lab File: VW009615.D
Acq: 31 Mar 2019 17:15

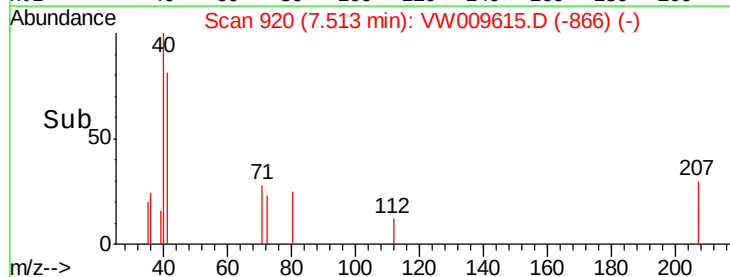
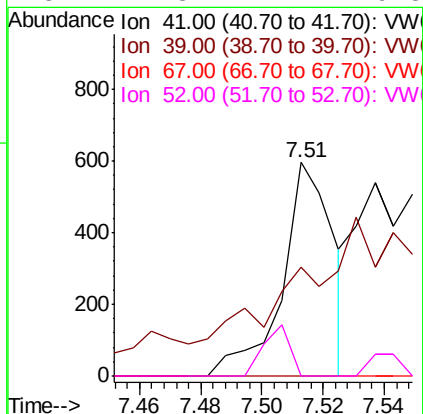
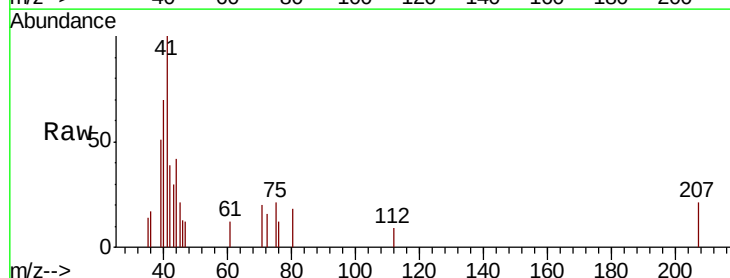
Instrument :
MSVOA_W
ClientSampled :

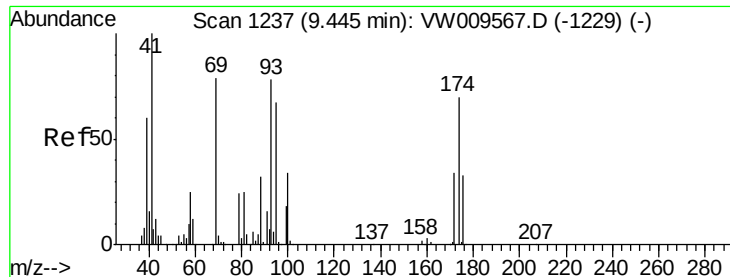
Tot Ion:117 Resp: 28859
Ion Ratio Lower Upper
117 100
119 5.0 75.4 113.0#
121 0.0 24.9 37.3#



#41
Methacrylonitrile
Concen: 4.363 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.03 min
Lab File: VW009615.D
Acq: 31 Mar 2019 17:15

Tgt Ion: 41 Resp: 693
Ion Ratio Lower Upper
41 100
39 0.0 52.5 78.7#
67 0.0 56.6 84.8#
52 12.3 27.2 40.8#





#49

1,4-Dioxane

Concen: 1.070 ug/l

RT: 9.38 min Scan# 1226

Delta R.T. -0.07 min

Lab File: VW009615.D

Acq: 31 Mar 2019 17:15

Instrument :
MSVOA_W
ClientSampled :

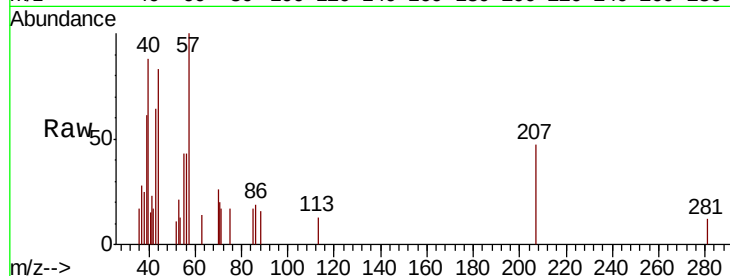
Tot Ion: 88 Resp: 28

Ion Ratio Lower Upper

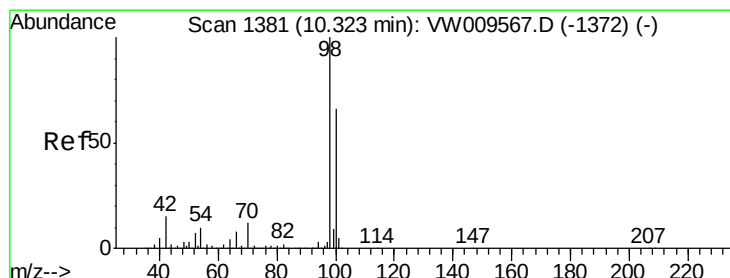
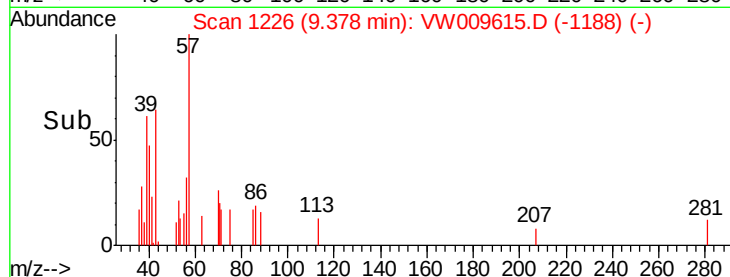
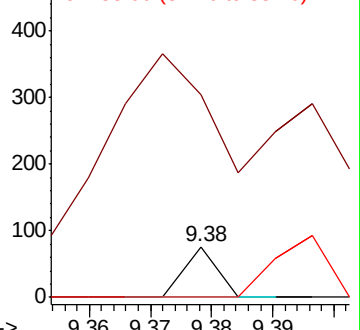
88 100

43 1128.6 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: 25.927 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009615.D

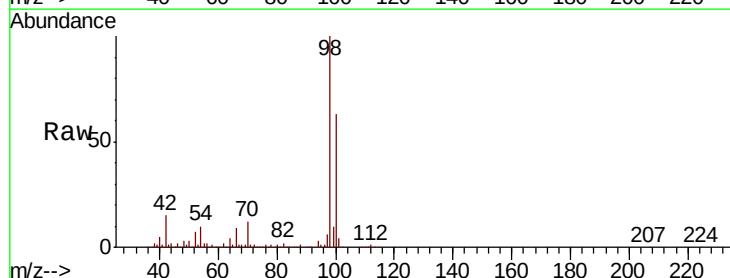
Acq: 31 Mar 2019 17:15

Tgt Ion: 98 Resp: 272353

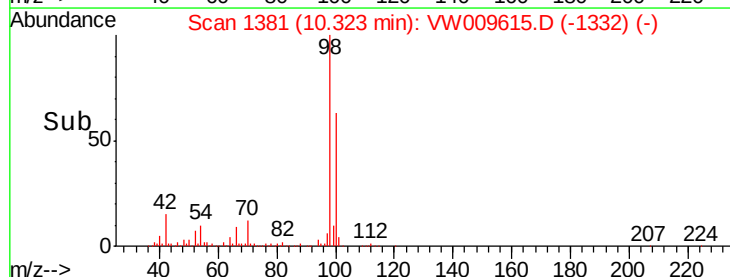
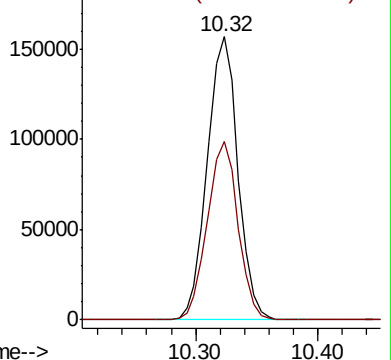
Ion Ratio Lower Upper

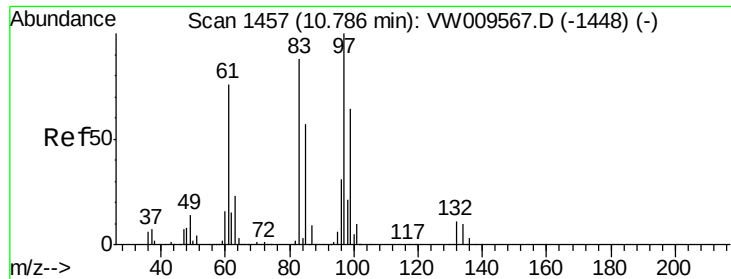
98 100

100 63.2 52.6 79.0



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

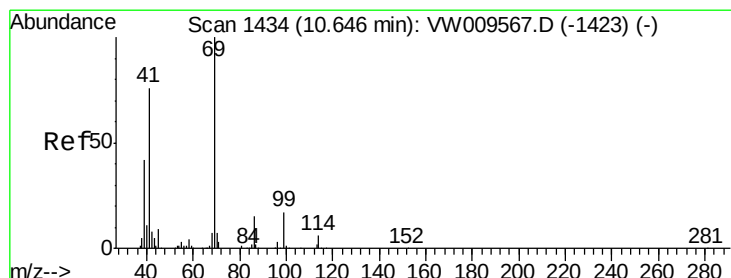
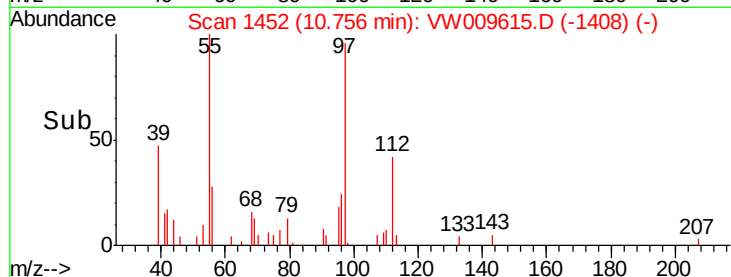
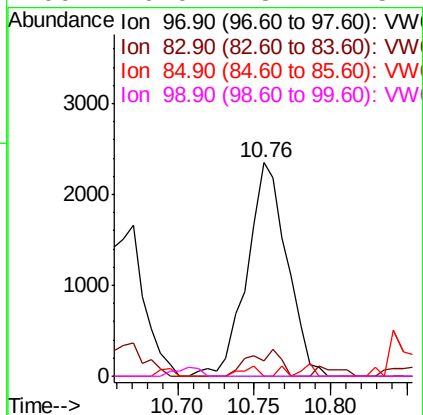
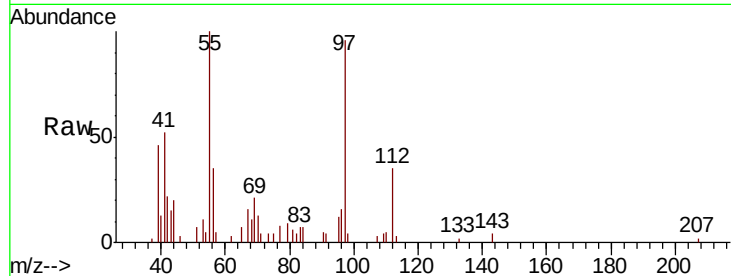




#55
 1,1,2-Trichloroethane
 Concen: 1.787 ug/l
 RT: 10.76 min Scan# 1452
 Delta R.T. -0.03 min
 Lab File: VW009615.D
 Acq: 31 Mar 2019 17:15

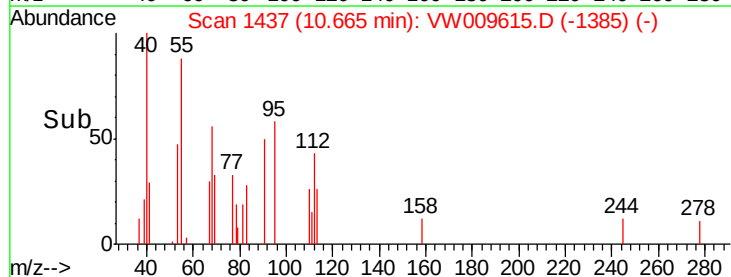
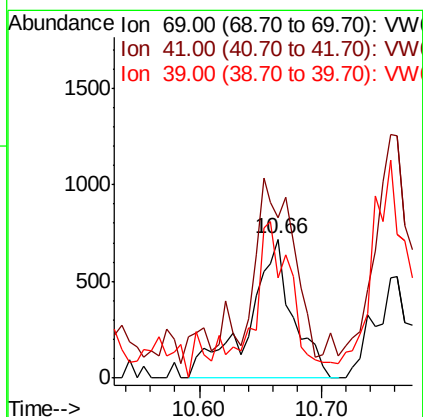
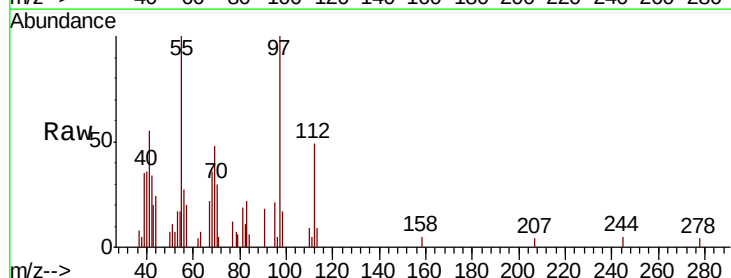
Instrument :
 MSVOA_W
 ClientSampleId :

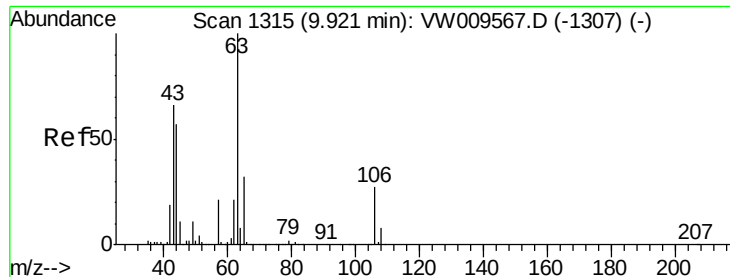
Tot Ion: 97 Resp: 4246
 Ion Ratio Lower Upper
 97 100
 83 7.0 66.3 99.5#
 85 0.0 41.4 62.2#
 99 0.0 48.7 73.1#



#56
 Ethyl methacrylate
 Concen: 4.302 ug/l
 RT: 10.66 min Scan# 1437
 Delta R.T. 0.02 min
 Lab File: VW009615.D
 Acq: 31 Mar 2019 17:15

Tgt Ion: 69 Resp: 1799
 Ion Ratio Lower Upper
 69 100
 41 102.9 59.3 88.9#
 39 69.0 36.2 54.2#

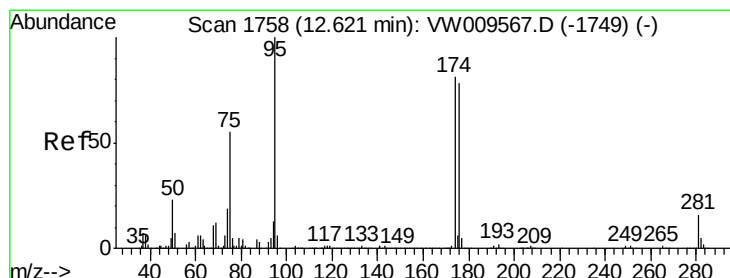
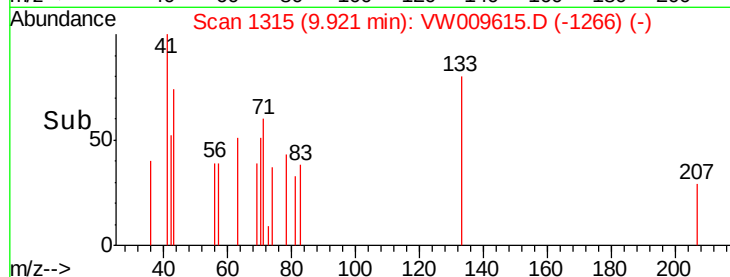
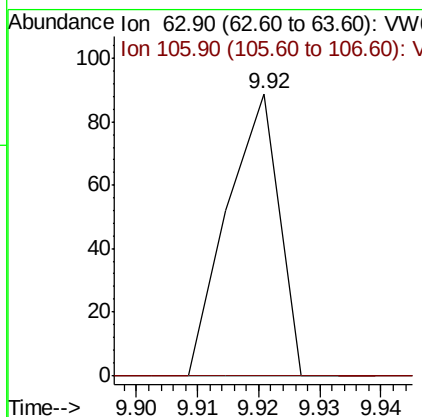
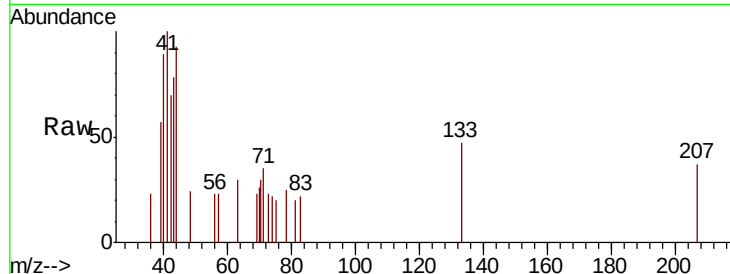




#58
 2-Chloroethyl Vinyl ether
 Concen: 17.047 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VW009615.D
 Acq: 31 Mar 2019 17:15

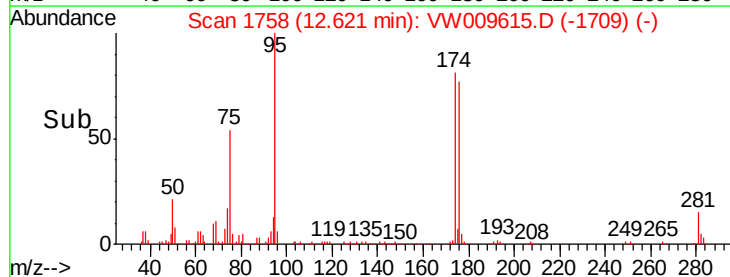
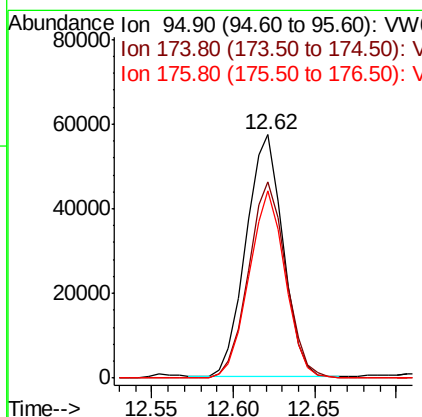
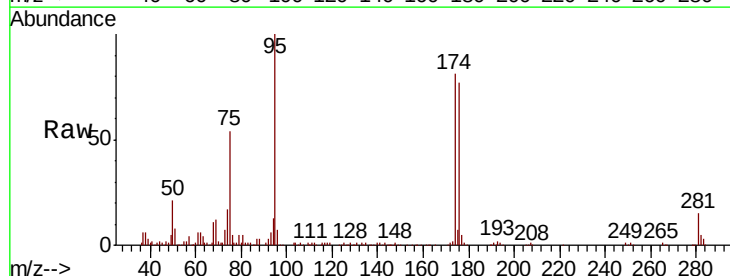
Instrument :
 MSVOA_W
 ClientSampled :

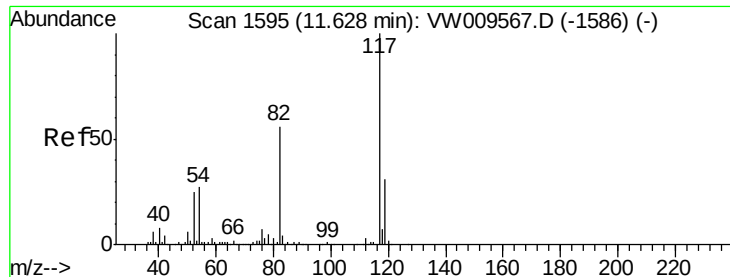
Tot Ion: 63 Resp: 52
 Ion Ratio Lower Upper
 63 100
 106 0.0 22.9 34.3#



#62
 4-Bromofluorobenzene
 Concen: 22.975 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.00 min
 Lab File: VW009615.D
 Acq: 31 Mar 2019 17:15

Tgt Ion: 95 Resp: 90034
 Ion Ratio Lower Upper
 95 100
 174 82.7 0.0 168.4
 176 76.3 0.0 161.6

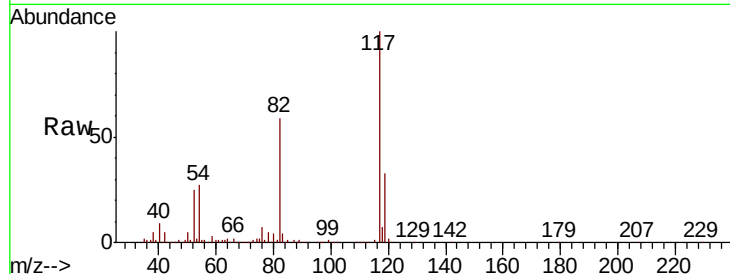




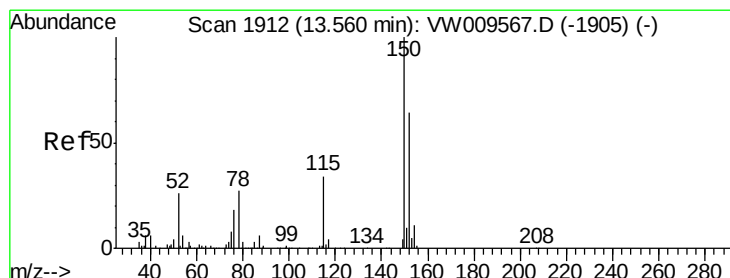
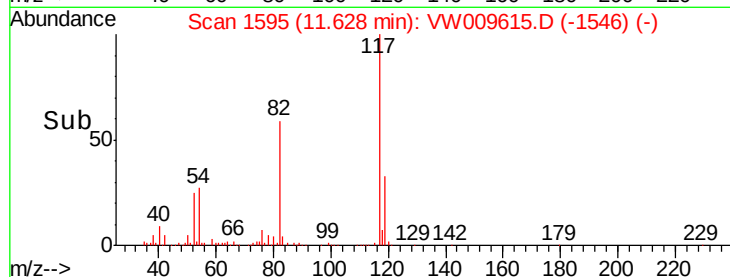
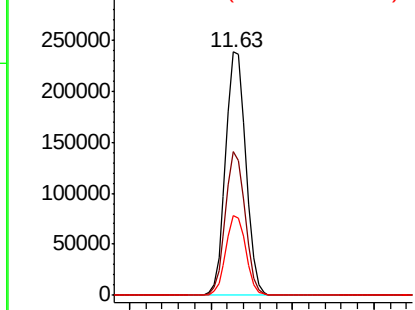
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW009615.D
Acq: 31 Mar 2019 17:15

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:117 Resp: 408231
Ion Ratio Lower Upper
117 100
82 59.0 43.6 65.4
119 32.5 26.0 39.0

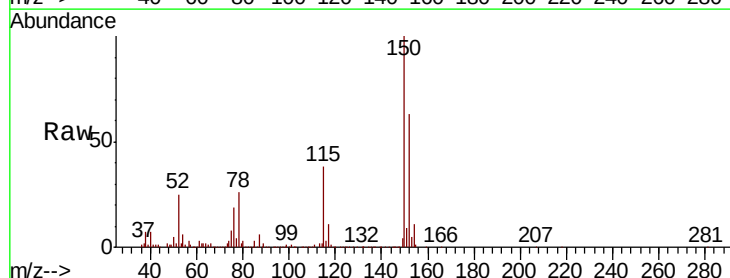


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

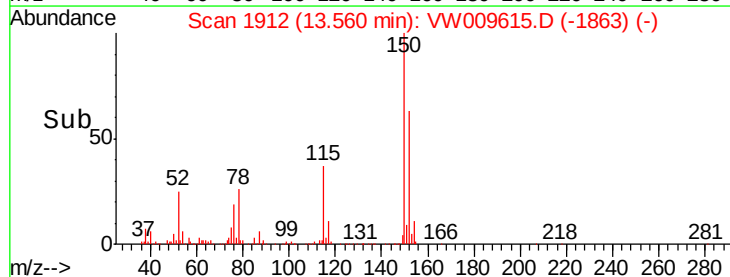
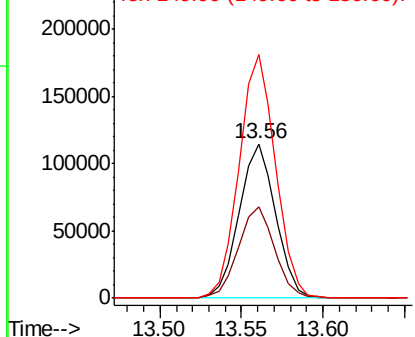


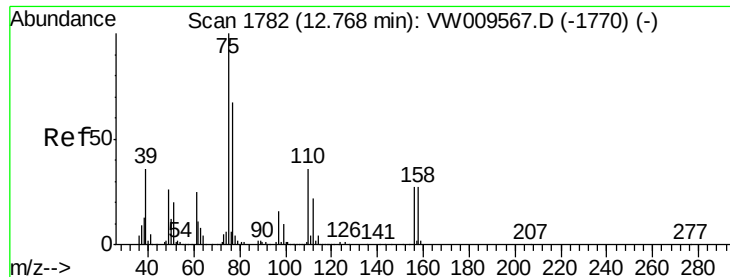
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW009615.D
Acq: 31 Mar 2019 17:15

Tgt Ion:152 Resp: 178238
Ion Ratio Lower Upper
152 100
115 59.5 29.6 88.8
150 157.8 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: 29.775 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW009615.D

Acq: 31 Mar 2019 17:15

Instrument :

MSVOA_W

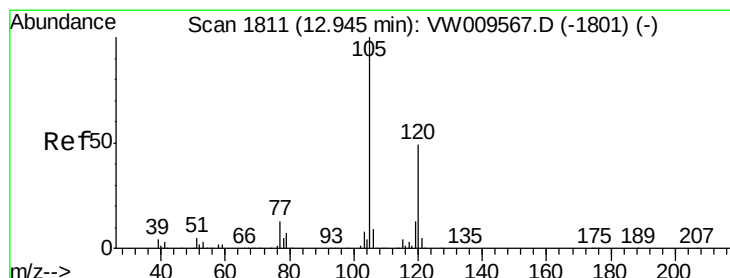
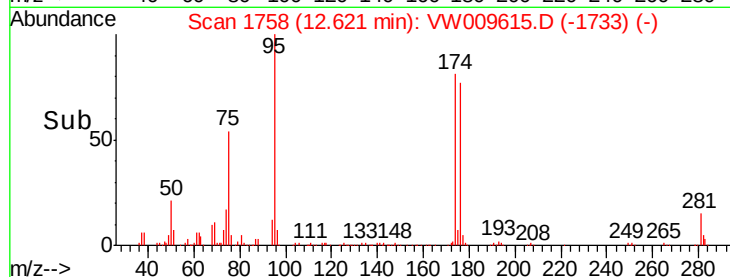
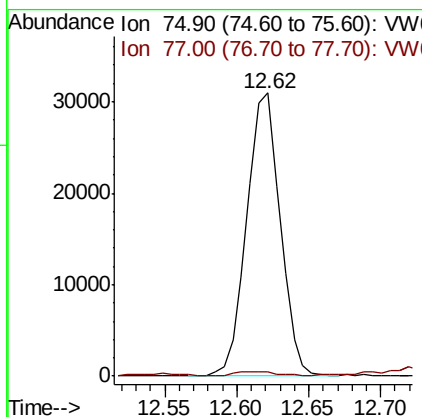
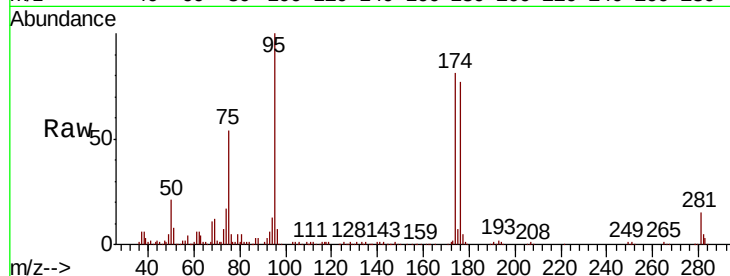
ClientSampleId :

Tot Ion: 75 Resp: 49906

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 1.967 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW009615.D

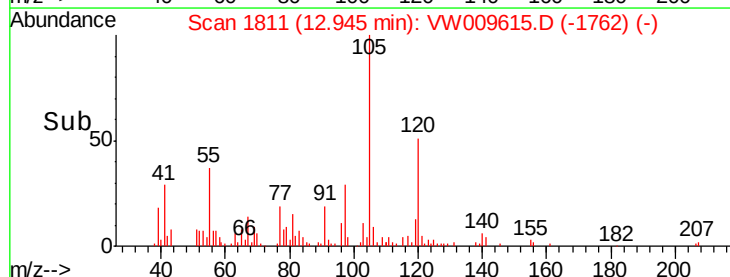
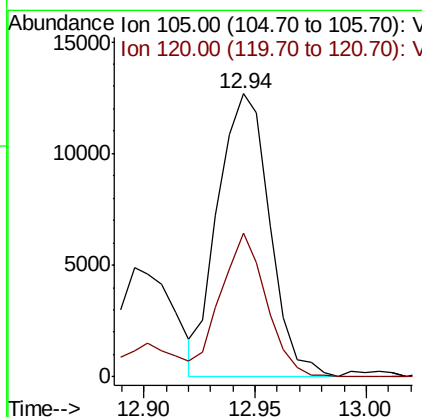
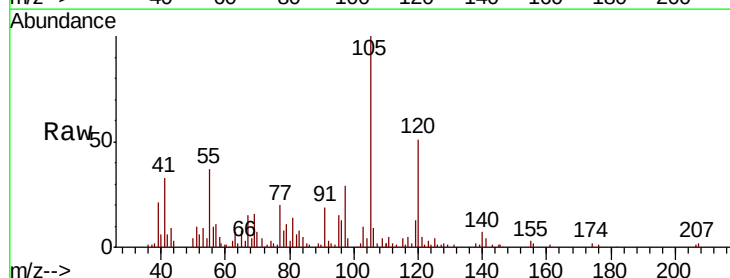
Acq: 31 Mar 2019 17:15

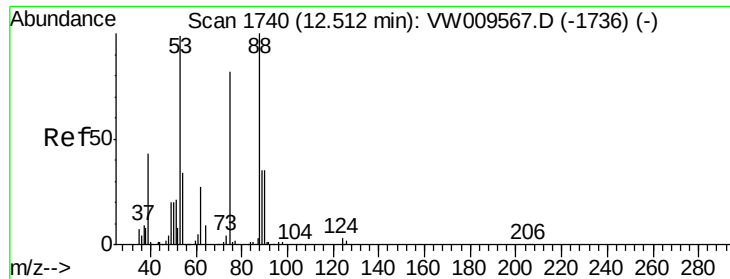
Tgt Ion: 105 Resp: 20548

Ion Ratio Lower Upper

105 100

120 44.8 24.6 74.0





#81

trans-1,4-Dichloro-2-butene

Concen: 69.240 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW009615.D

Acq: 31 Mar 2019 17:15

Instrument :

MSVOA_W

ClientSampleId :

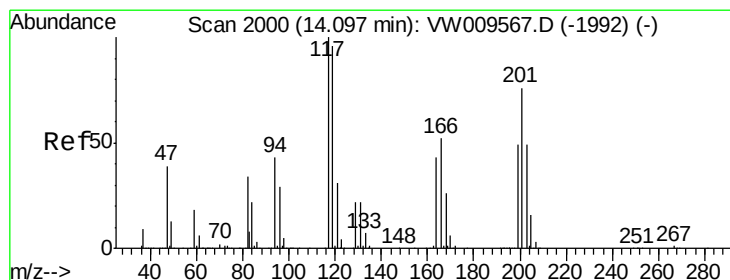
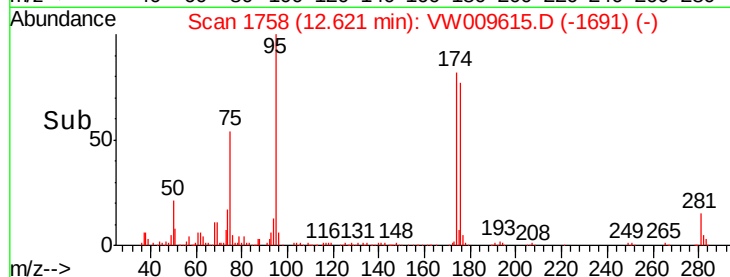
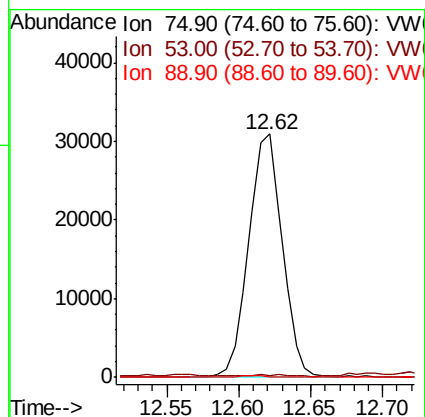
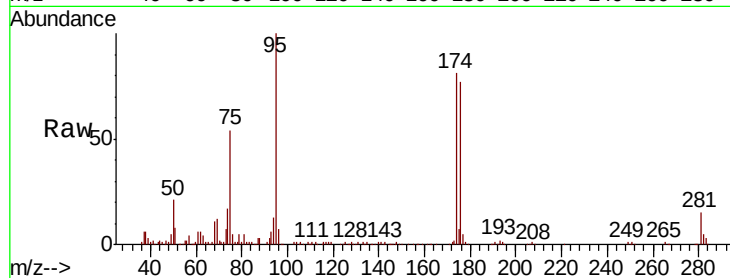
Tot Ion: 75 Resp: 49906

Ion Ratio Lower Upper

75 100

53 0.5 86.7 130.1#

89 0.5 36.4 54.6#



#90

Hexachloroethane

Concen: 1.322 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. -0.01 min

Lab File: VW009615.D

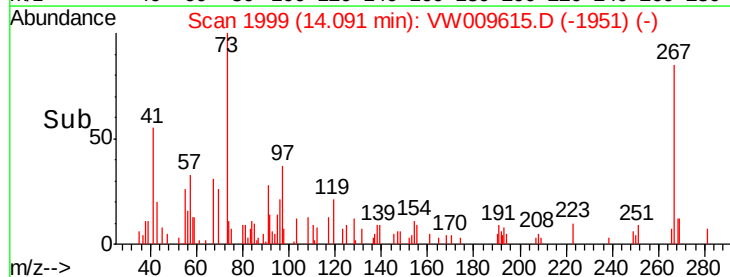
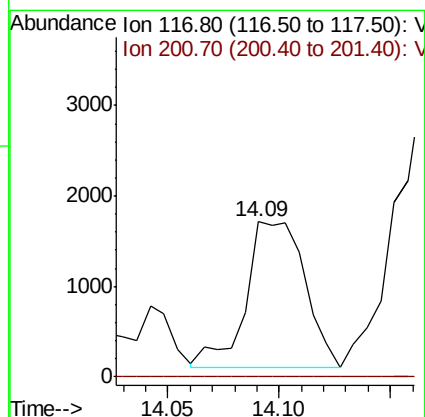
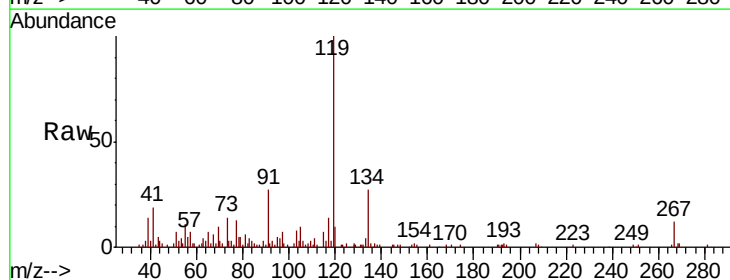
Acq: 31 Mar 2019 17:15

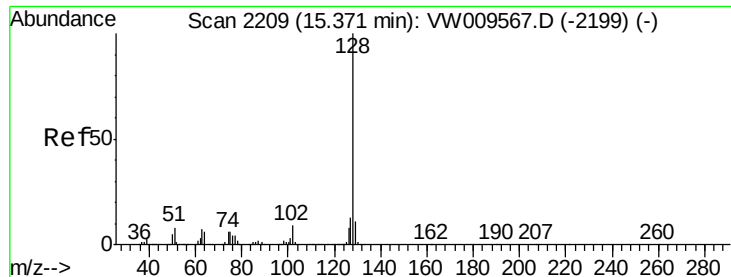
Tgt Ion: 117 Resp: 2955

Ion Ratio Lower Upper

117 100

201 0.0 38.2 114.6#





#95
Naphthalene
Concen: 3.068 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW009615.D
Acq: 31 Mar 2019 17:15

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:128 Resp: 2522
Ion Ratio Lower Upper
128 100
127 22.8 10.8 16.2#
129 6.2 8.7 13.1#

