

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW033119\
 Data File : VW009624.D
 Acq On : 31 Mar 2019 21:30
 Operator : SY/VA
 Sample : K2139-07RE
 Misc : 10.46G/5.0ML/MSVOA W/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Apr 01 04:58:15 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	43899	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	33462	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	17728	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	3906	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	6099	12.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	24.30%	
35) Dibromofluoromethane	7.88	113	6567	31.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	62.50%	
50) Toluene-d8	10.32	98	19552	25.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	50.34%	
62) 4-Bromofluorobenzene	12.62	95	3690	12.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	25.46%	

Target Compounds

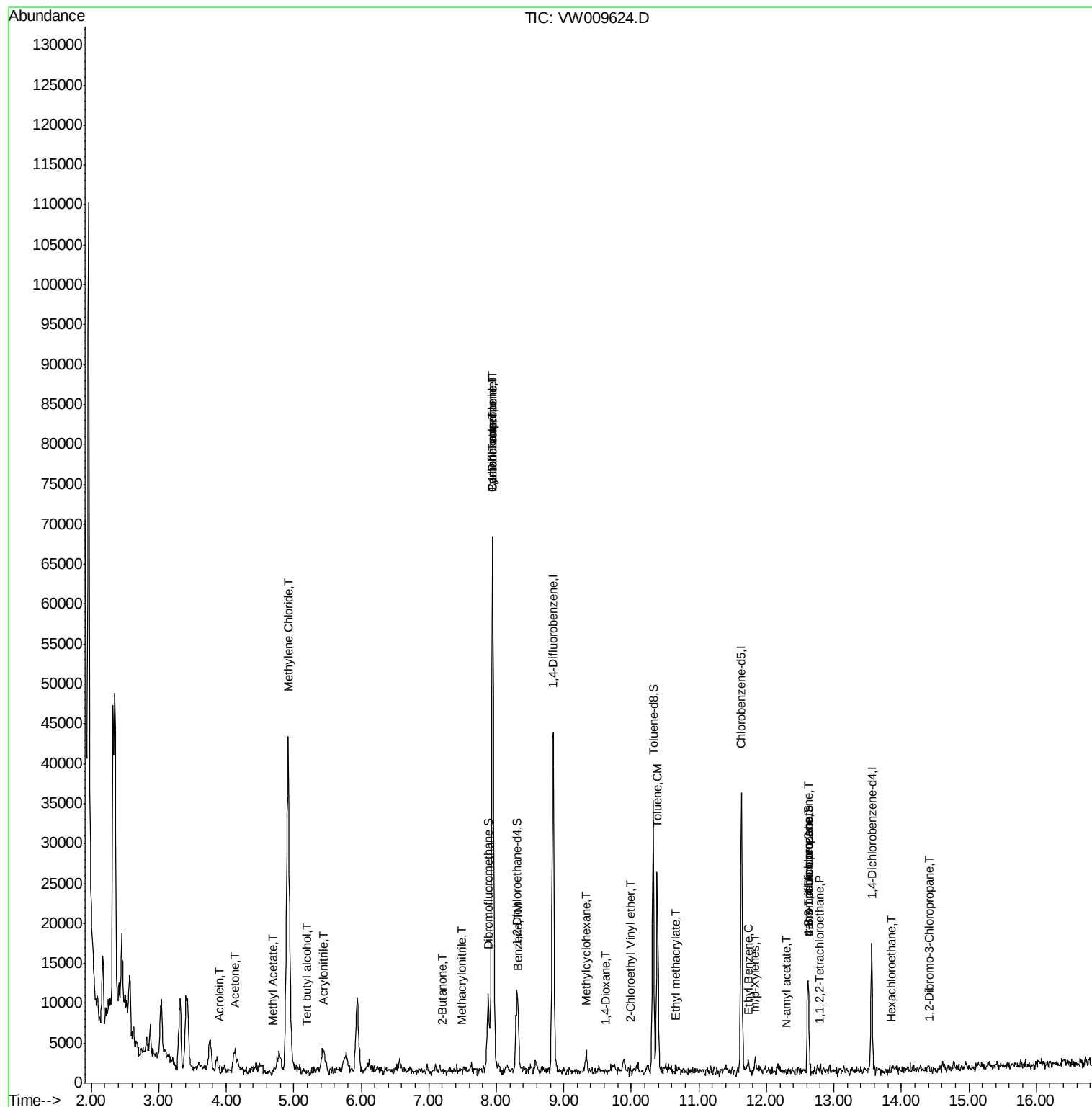
						Qvalue
2) Dichlorodifluoromethane	2.01	85	110	Below Cal	#	41
11) Tert butyl alcohol	5.18	59	79	2.714	ug/l #	70
13) Acrolein	3.90	56	143	6.698	ug/l #	15
15) Acrylonitrile	5.45	53	215	2.076	ug/l #	48
16) Acetone	4.12	43	3952	35.015	ug/l #	81
18) Methyl Acetate	4.69	43	429	1.572	ug/l #	77
20) Methylene Chloride	4.92	84	26382	60.386	ug/l #	81
25) 2-Butanone	7.19	43	626	4.014	ug/l	97
31) Cyclohexane	7.95	56	1785	2.161	ug/l #	41
36) 1,1-Dichloropropene	7.95	75	4456	12.875	ug/l #	52
38) Carbon Tetrachloride	7.94	117	4983	14.051	ug/l #	17
39) Methylcyclohexane	9.34	83	734	1.857	ug/l #	78
40) Benzene	8.33	78	3046	3.249	ug/l #	84
41) Methacrylonitrile	7.49	41	71	4.533	ug/l #	1
49) 1,4-Dioxane	9.62	88	29	14.981	ug/l #	1
52) Toluene	10.39	92	9599	16.350	ug/l	99
56) Ethyl methacrylate	10.66	69	33	3.922	ug/l #	1
58) 2-Chloroethyl Vinyl ether	10.00	63	26	17.223	ug/l #	46
67) Ethyl Benzene	11.73	91	895	1.361	ug/l #	68
68) m/p-Xylenes	11.84	106	332	1.329	ug/l	76
74) N-amyl acetate	12.30	43	281	3.921	ug/l #	46
75) 1,1,2,2-Tetrachloroethane	12.79	83	73	1.420	ug/l #	25
76) 1,2,3-Trichloropropane	12.62	75	2384	64.903	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	2384	150.931	ug/l #	8
90) Hexachloroethane	13.86	117	55	1.123	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.41	75	32	3.410	ug/l #	5

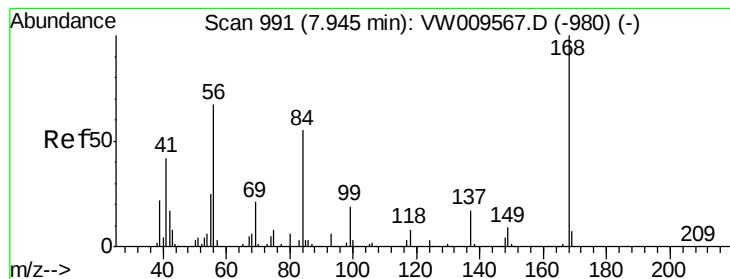
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VW009624.D

Acq: 31 Mar 2019 21:30

Instrument :

MSVOA_W

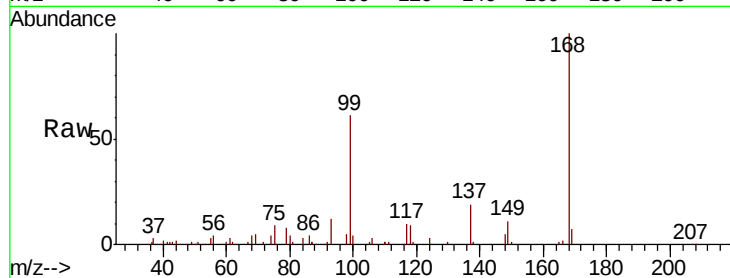
ClientSampleId :

Tot Ion:168 Resp: 43899

Ion Ratio Lower Upper

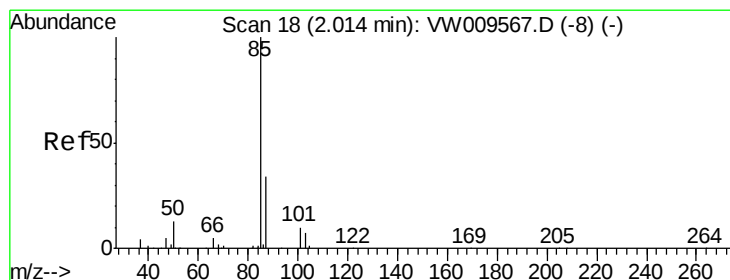
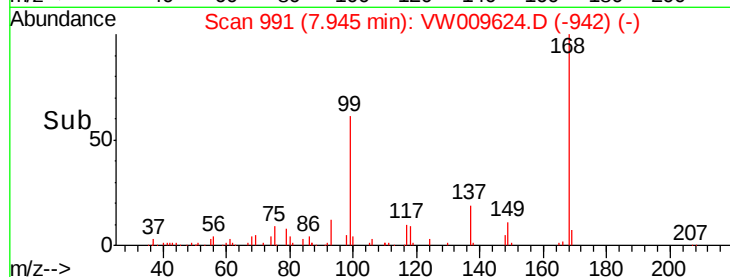
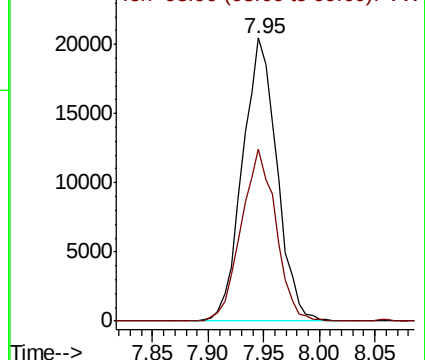
168 100

99 60.8 45.4 68.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 2.01 min Scan# 17

Delta R.T. -0.01 min

Lab File: VW009624.D

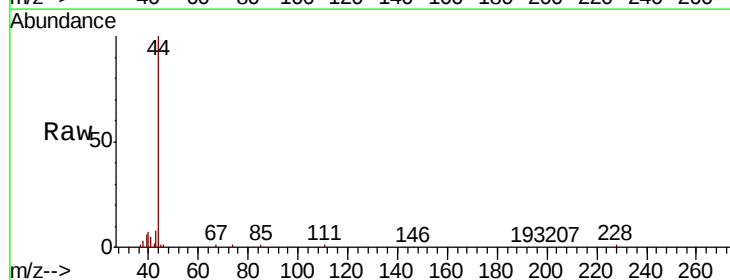
Acq: 31 Mar 2019 21:30

Tgt Ion: 85 Resp: 110

Ion Ratio Lower Upper

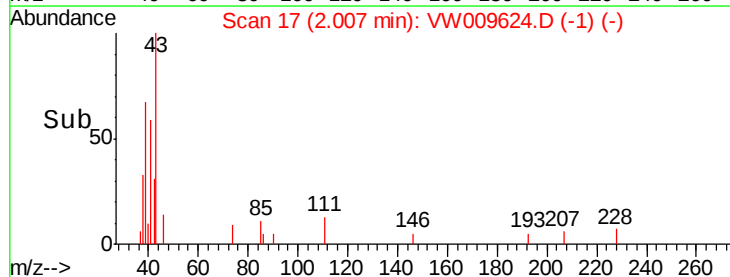
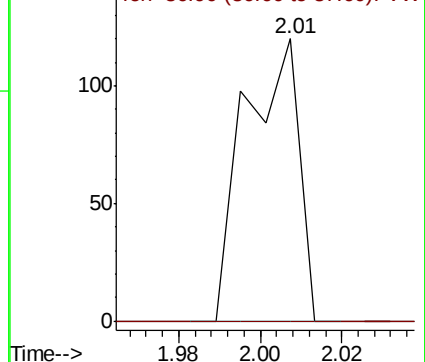
85 100

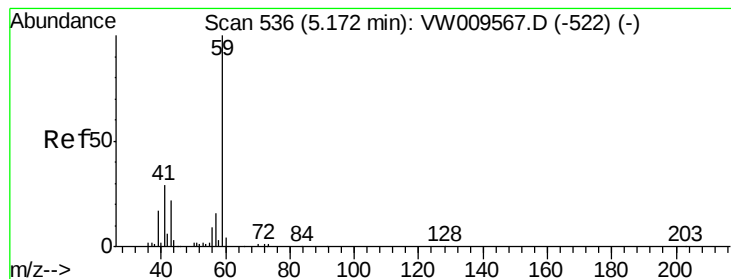
87 0.0 16.7 50.1#



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW



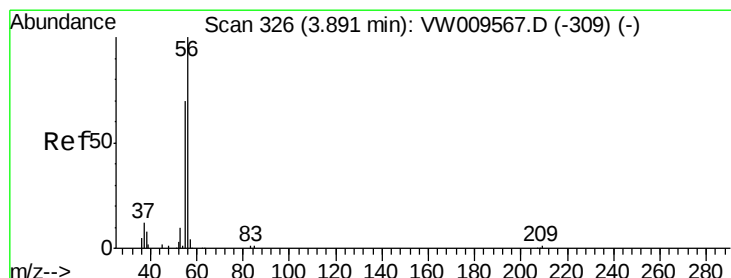
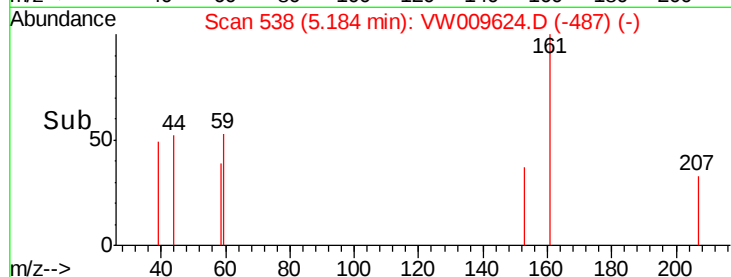
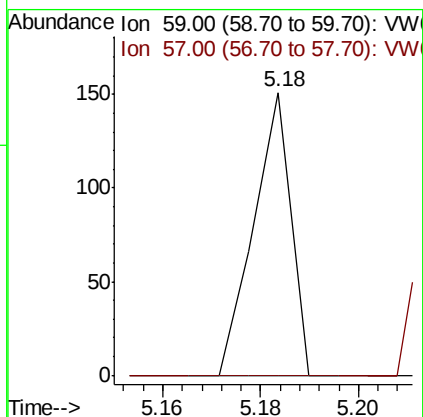
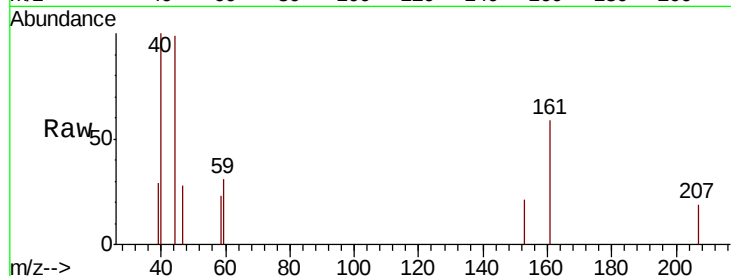


#11

Tert butyl alcohol
 Concen: 2.714 ug/l
 RT: 5.18 min Scan# 538
 Delta R.T. 0.01 min
 Lab File: VW009624.D
 Acq: 31 Mar 2019 21:30

Instrument :
 MSVOA_W
 ClientSampleId :

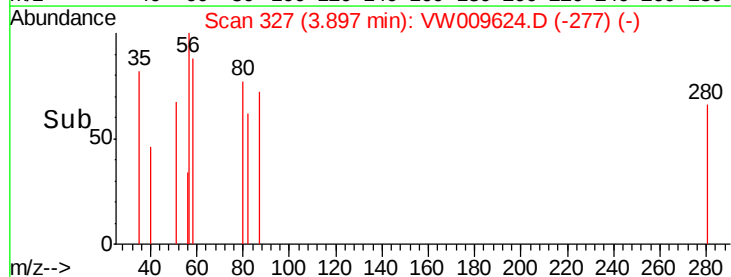
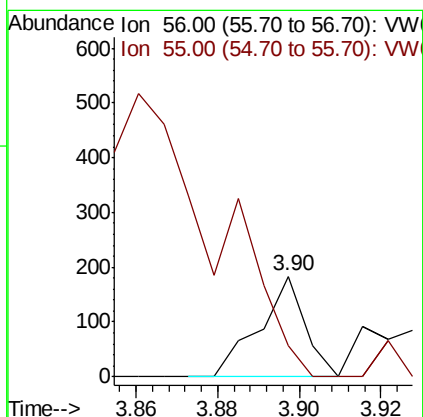
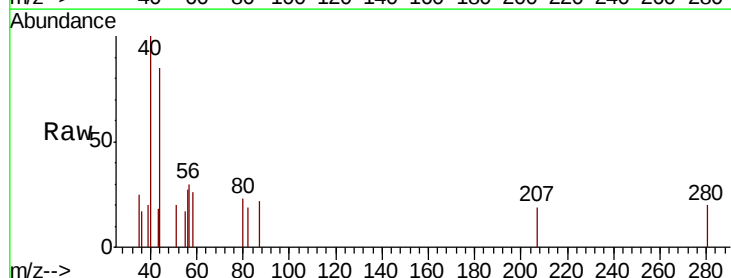
Tot Ion: 59 Resp: 79
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.4 14.0#

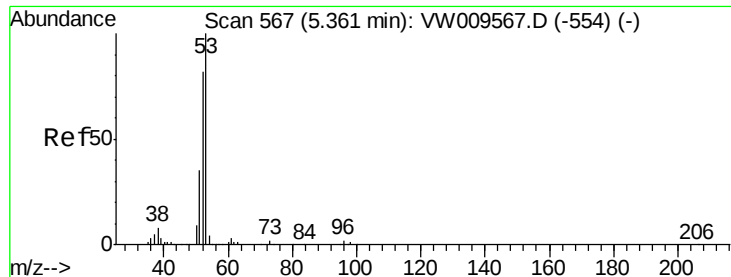


#13

Acrolein
 Concen: 6.698 ug/l
 RT: 3.90 min Scan# 327
 Delta R.T. 0.01 min
 Lab File: VW009624.D
 Acq: 31 Mar 2019 21:30

Tgt Ion: 56 Resp: 143
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.2 82.8#





#15

Acrylonitrile

Concen: 2.076 ug/l

RT: 5.45 min Scan# 581

Delta R.T. 0.09 min

Lab File: VW009624.D

Acq: 31 Mar 2019 21:30

Instrument :

MSVOA_W

ClientSampled :

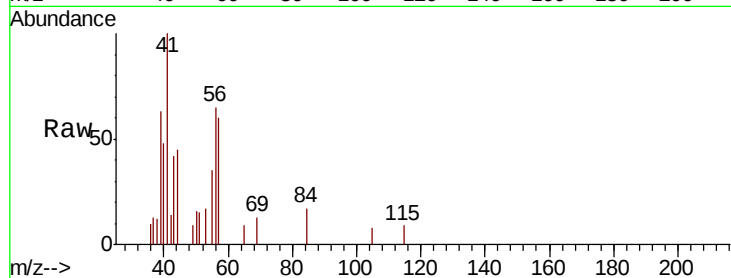
Tot Ion: 53 Resp: 215

Ion Ratio Lower Upper

53 100

52 26.0 67.6 101.4#

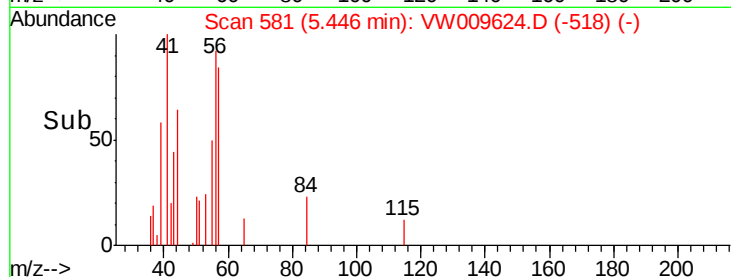
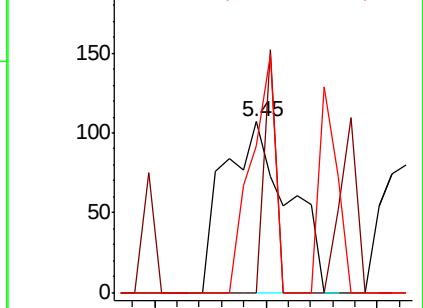
51 52.6 30.6 45.8#



Abundance Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 35.015 ug/l

RT: 4.12 min Scan# 364

Delta R.T. 0.01 min

Lab File: VW009624.D

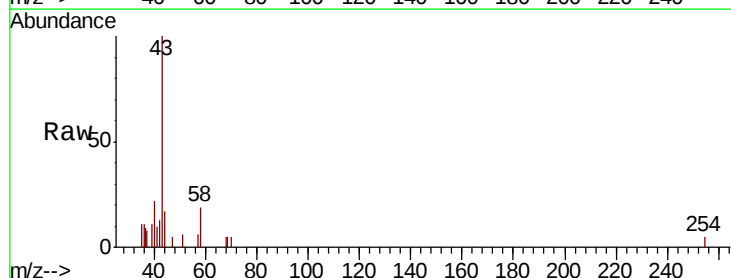
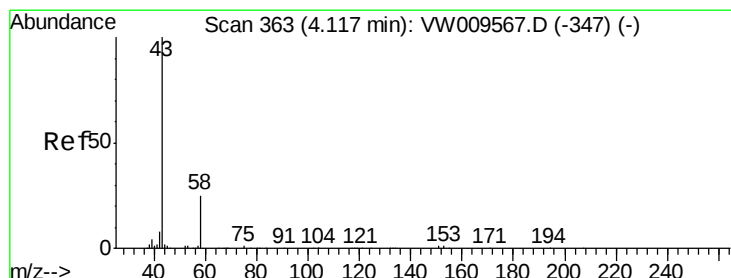
Acq: 31 Mar 2019 21:30

Tgt Ion: 43 Resp: 3952

Ion Ratio Lower Upper

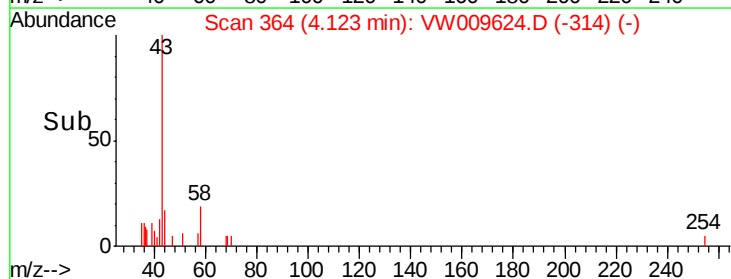
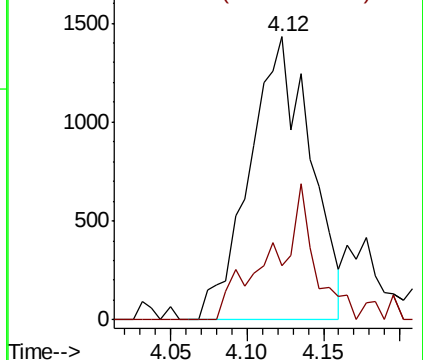
43 100

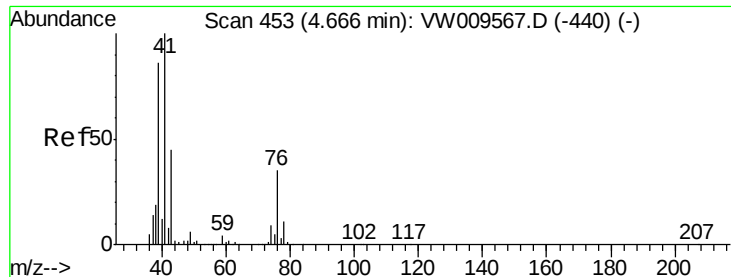
58 19.2 23.6 35.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

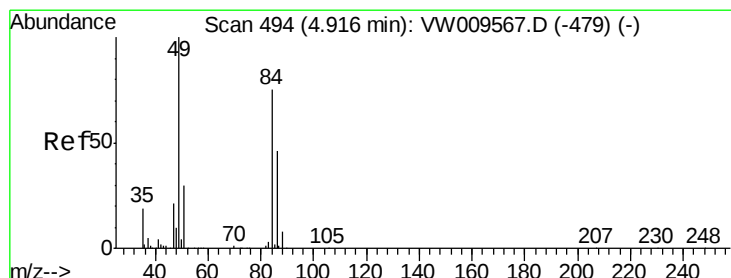
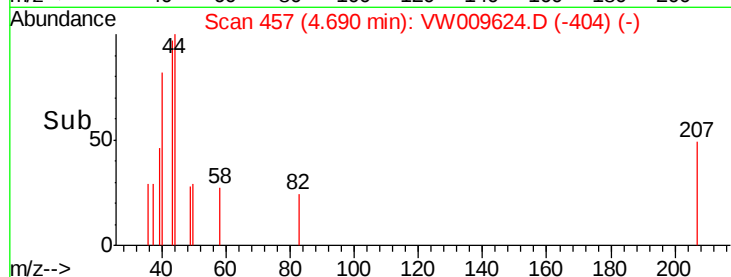
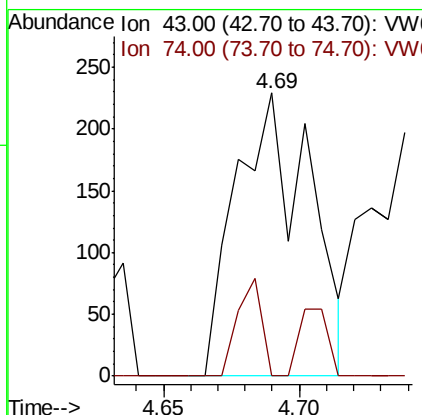
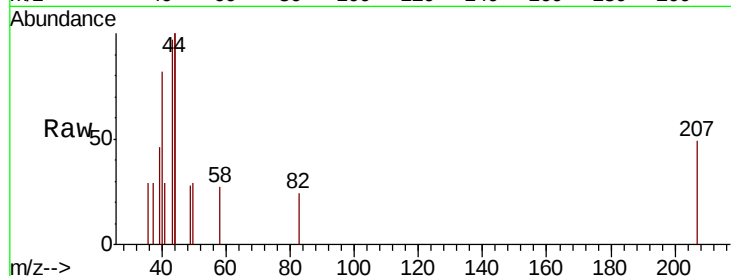




#18
Methyl Acetate
Concen: 1.572 ug/l
RT: 4.69 min Scan# 457
Delta R.T. 0.02 min
Lab File: VW009624.D
Acq: 31 Mar 2019 21:30

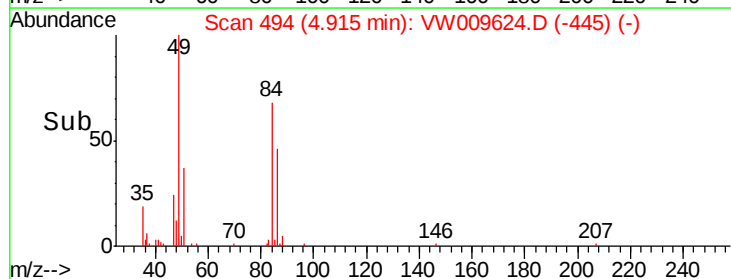
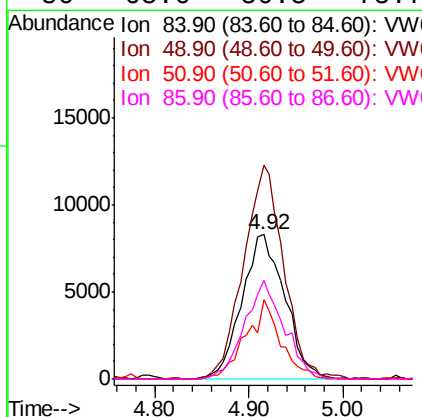
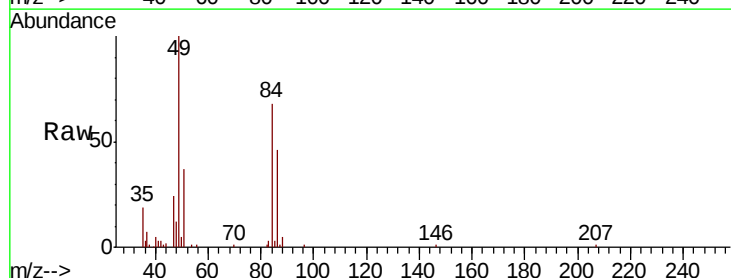
Instrument :
MSVOA_W
ClientSampled :

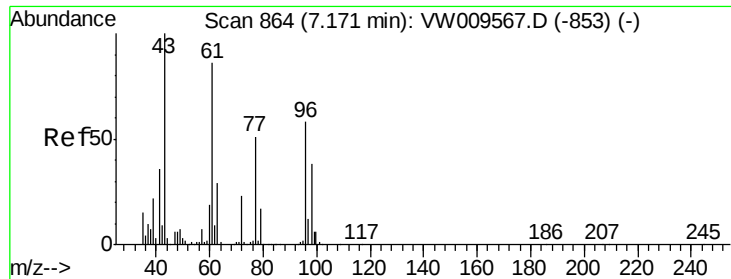
Tot Ion: 43 Resp: 429
Ion Ratio Lower Upper
43 100
74 11.2 17.7 26.5#



#20
Methylene Chloride
Concen: 60.386 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.00 min
Lab File: VW009624.D
Acq: 31 Mar 2019 21:30

Tgt Ion: 84 Resp: 26382
Ion Ratio Lower Upper
84 100
49 147.9 99.1 148.7
51 55.2 28.7 43.1#
86 68.6 50.5 75.7





#25

2-Butanone

Concen: 4.014 ug/l

RT: 7.19 min Scan# 867

Delta R.T. 0.02 min

Lab File: VW009624.D

Acq: 31 Mar 2019 21:30

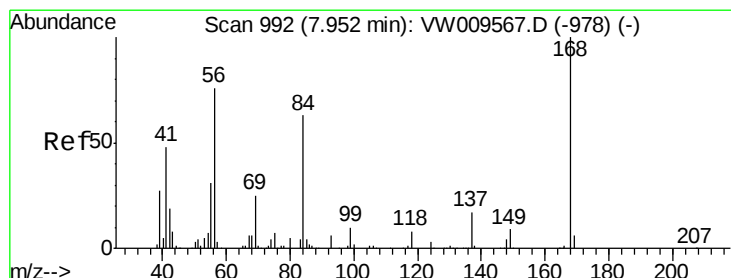
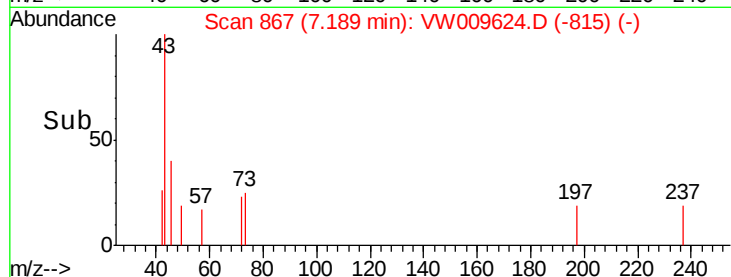
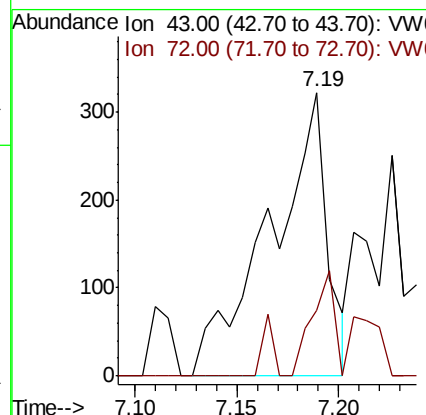
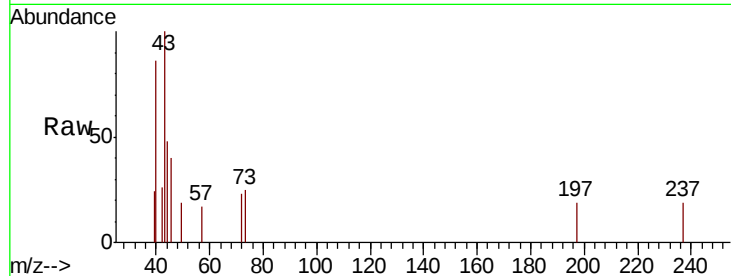
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion: 43 Resp: 626

Ion Ratio Lower Upper

43 100

72 23.3 20.0 30.0



#31

Cyclohexane

Concen: 2.161 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.01 min

Lab File: VW009624.D

Acq: 31 Mar 2019 21:30

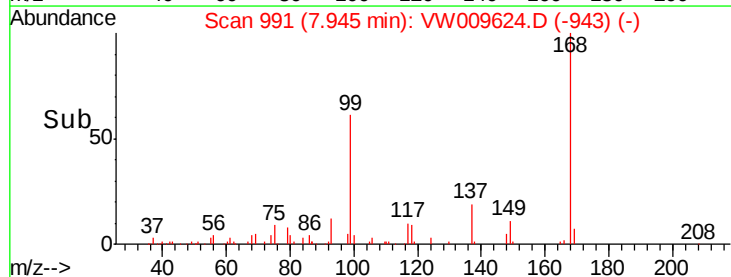
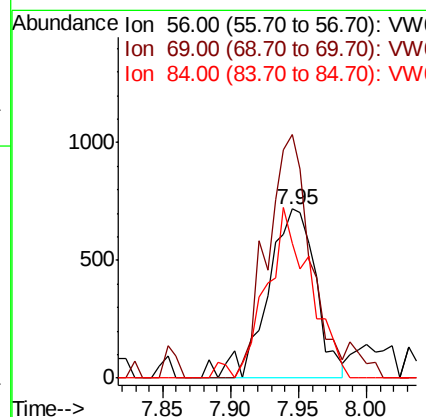
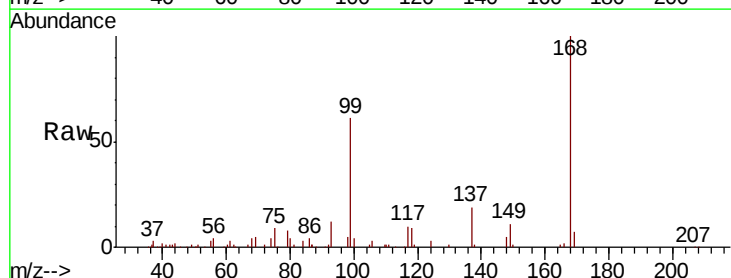
Tgt Ion: 56 Resp: 1785

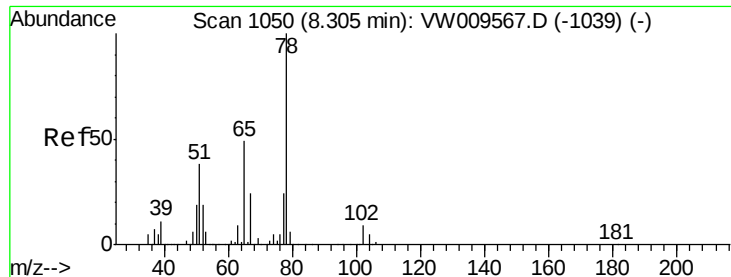
Ion Ratio Lower Upper

56 100

69 144.2 26.1 39.1#

84 79.9 68.6 103.0

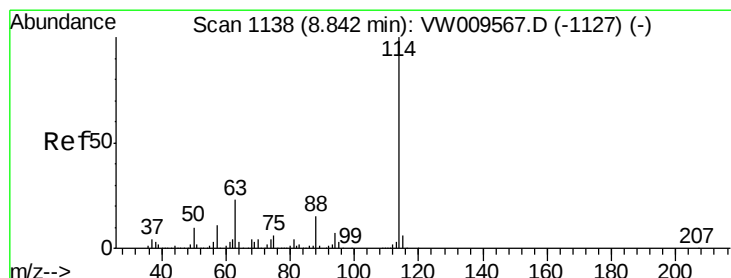
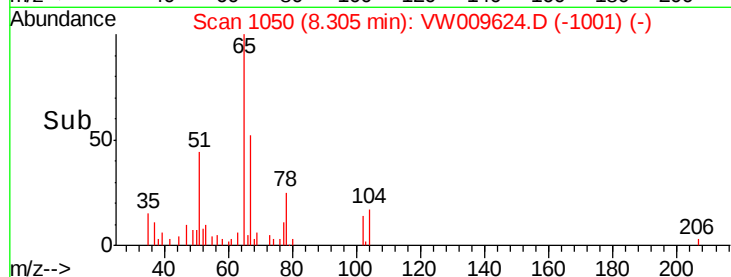
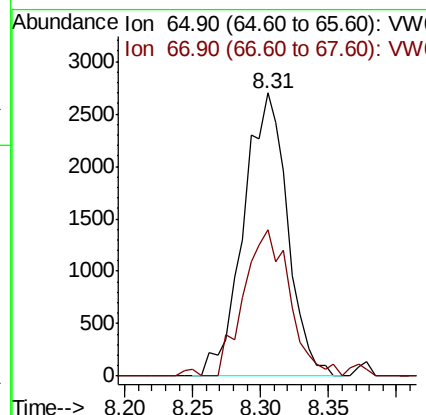
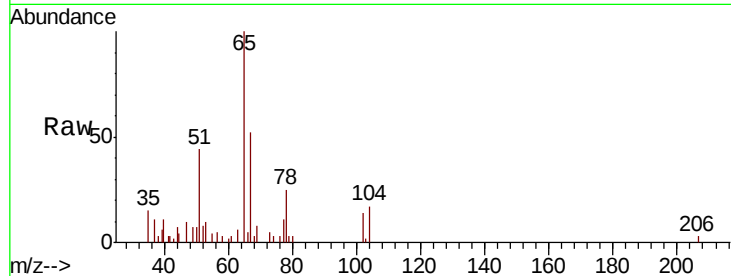




#33
 1,2-Dichloroethane-d4
 Concen: 12.149 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW009624.D
 Acq: 31 Mar 2019 21:30

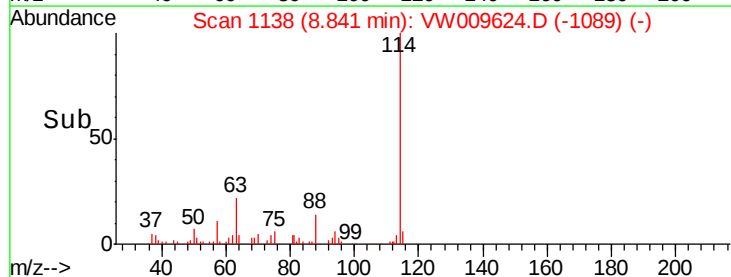
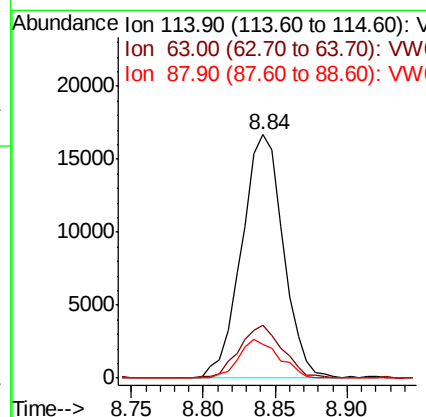
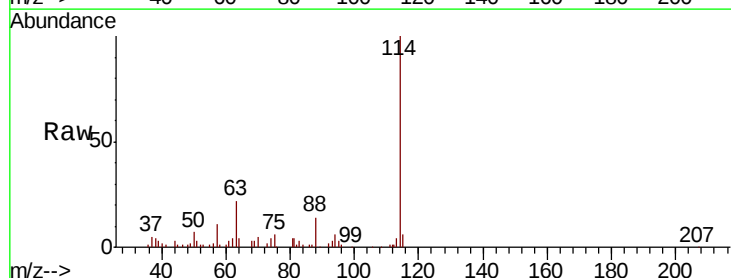
Instrument :
 MSVOA_W
 ClientSampleId :

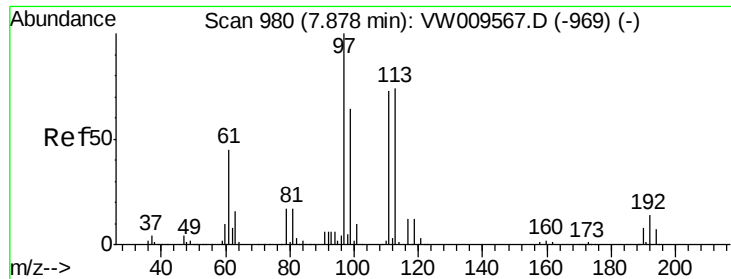
Tot Ion: 65 Resp: 6099
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 102.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW009624.D
 Acq: 31 Mar 2019 21:30

Tgt Ion: 114 Resp: 33462
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 42.2
 88 13.7 0.0 30.8

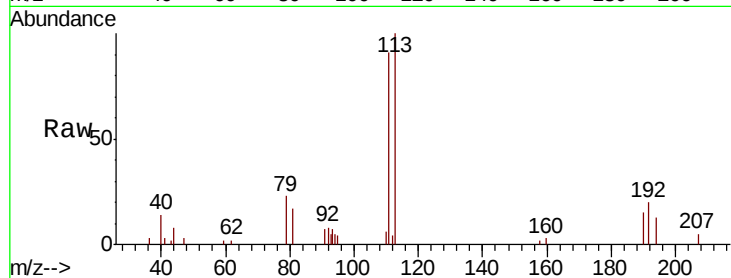




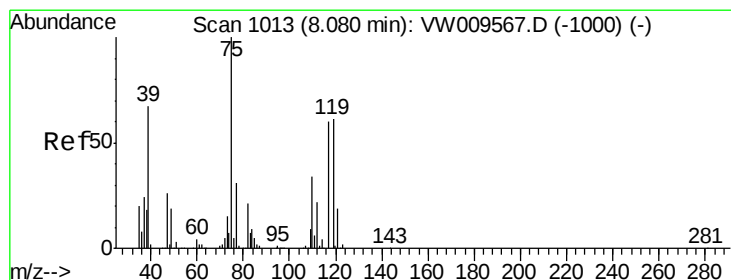
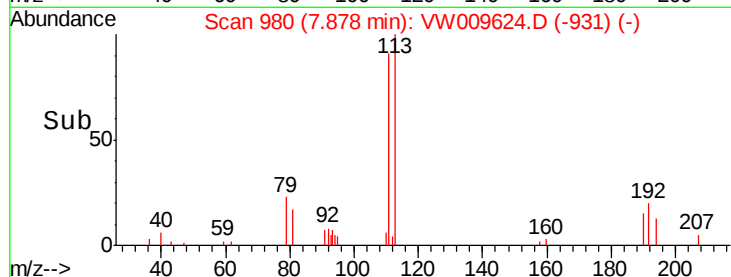
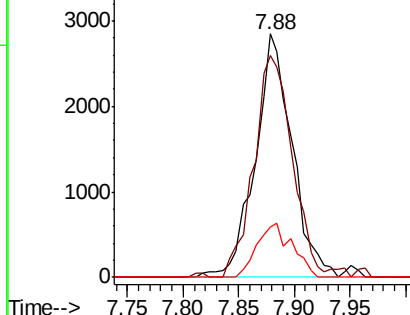
#35
 Dibromofluoromethane
 Concen: 31.246 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: VW009624.D
 Acq: 31 Mar 2019 21:30

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion:113 Resp: 6567
 Ion Ratio Lower Upper
 113 100
 111 94.6 82.6 124.0
 192 21.1 16.4 24.6

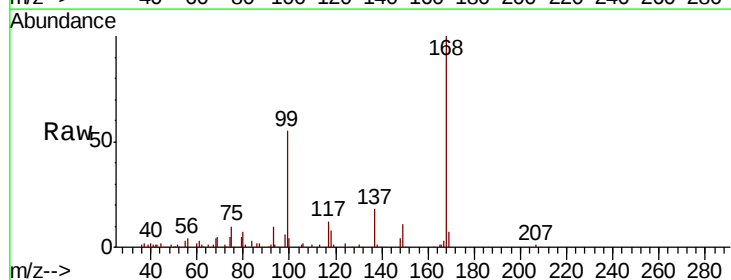


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

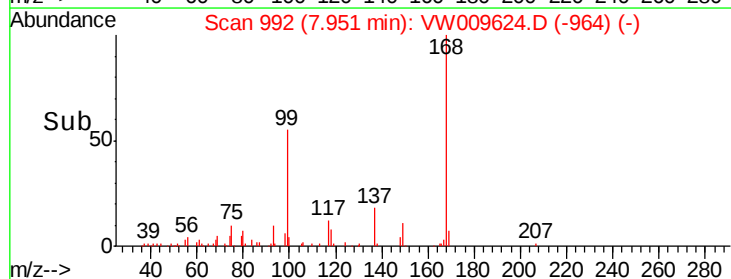
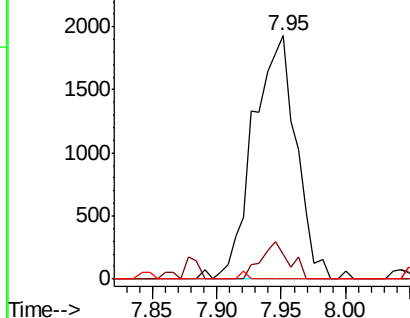


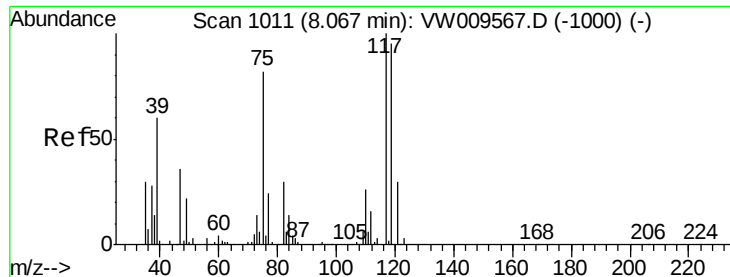
#36
 1,1-Dichloropropene
 Concen: 12.875 ug/l
 RT: 7.95 min Scan# 992
 Delta R.T. -0.13 min
 Lab File: VW009624.D
 Acq: 31 Mar 2019 21:30

Tgt Ion: 75 Resp: 4456
 Ion Ratio Lower Upper
 75 100
 110 10.1 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): V
 Ion 76.90 (76.60 to 77.60): VW

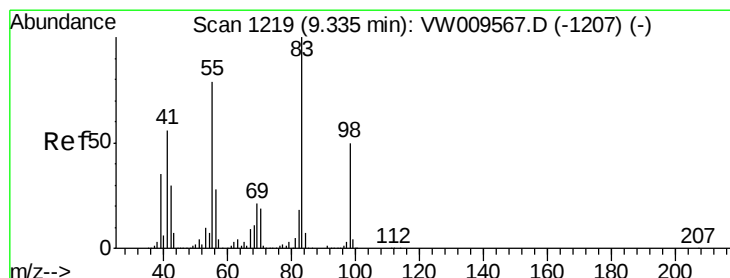
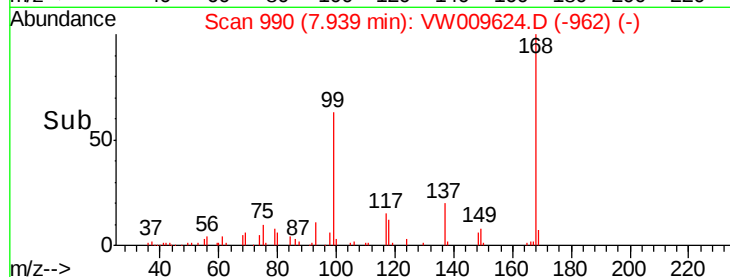
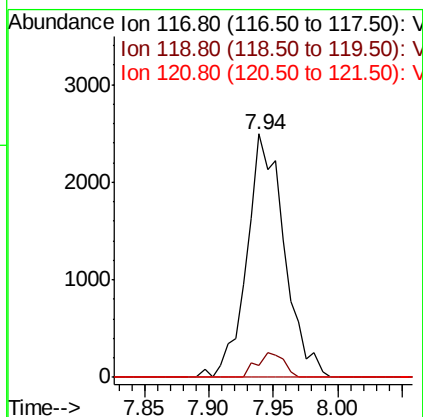
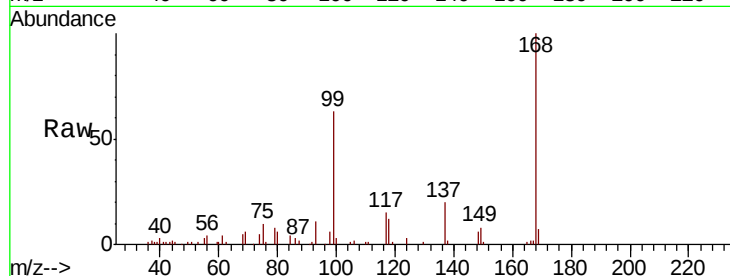




#38
Carbon Tetrachloride
Concen: 14.051 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.13 min
Lab File: VW009624.D
Acq: 31 Mar 2019 21:30

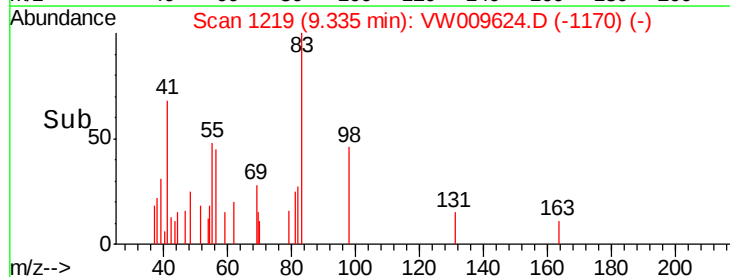
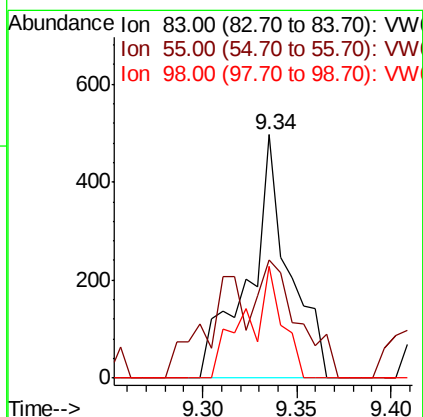
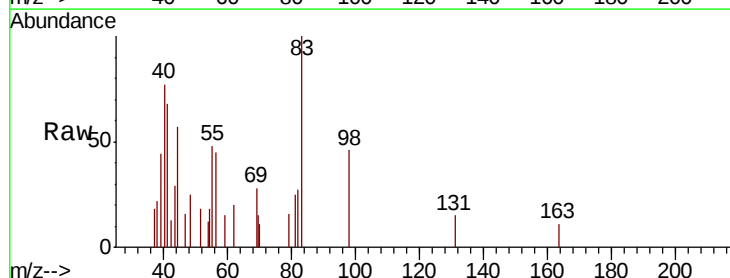
Instrument :
MSVOA_W
ClientSampled :

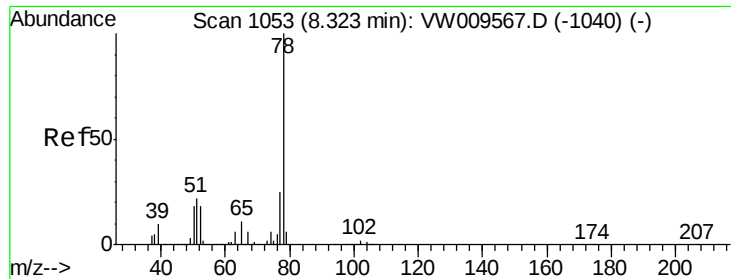
Tot Ion:117 Resp: 4983
Ion Ratio Lower Upper
117 100
119 5.1 75.4 113.0#
121 0.0 24.9 37.3#



#39
Methylcyclohexane
Concen: 1.857 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW009624.D
Acq: 31 Mar 2019 21:30

Tgt Ion: 83 Resp: 734
Ion Ratio Lower Upper
83 100
55 48.3 61.1 91.7#
98 45.7 39.0 58.4

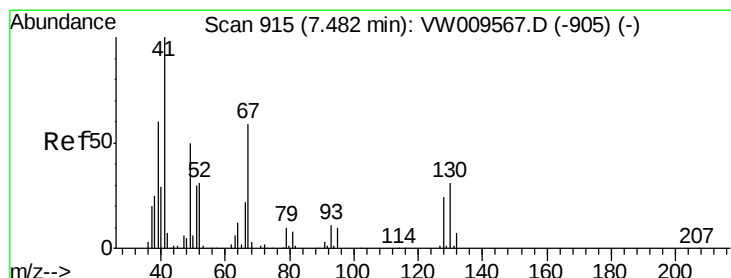
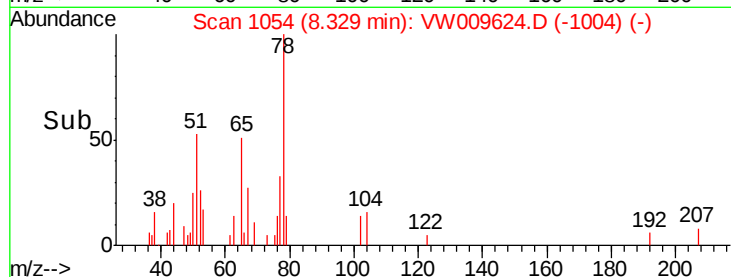
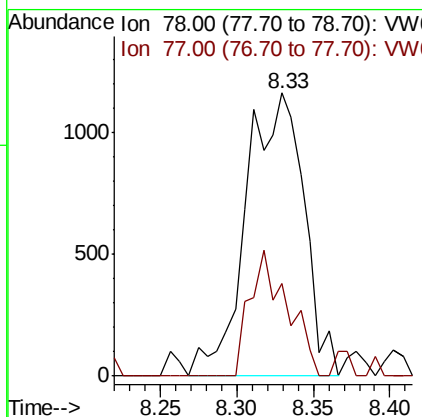
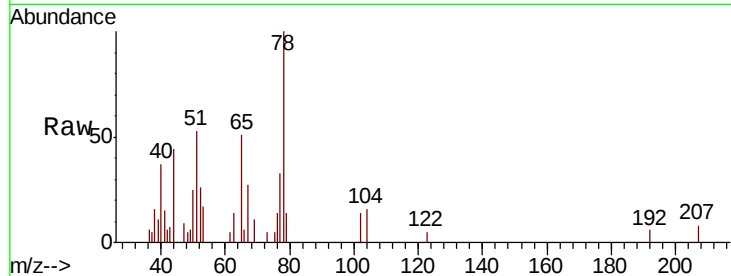




#40
Benzene
Concen: 3.249 ug/l
RT: 8.33 min Scan# 1054
Delta R.T. 0.01 min
Lab File: VW009624.D
Acq: 31 Mar 2019 21:30

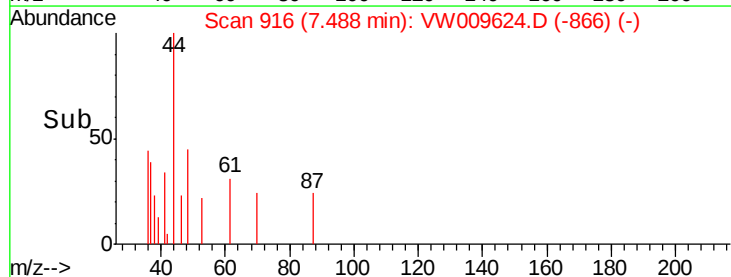
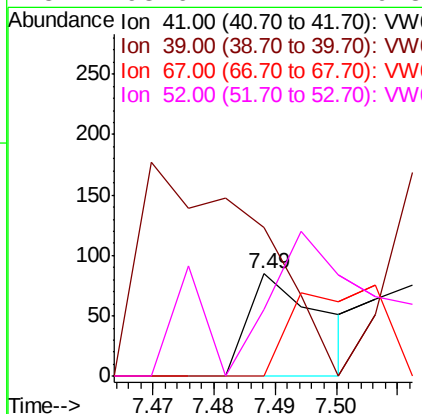
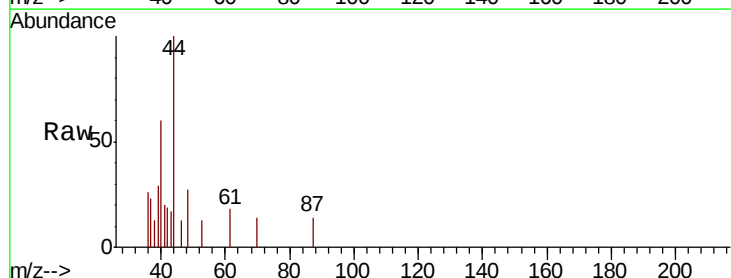
Instrument :
MSVOA_W
ClientSampled :

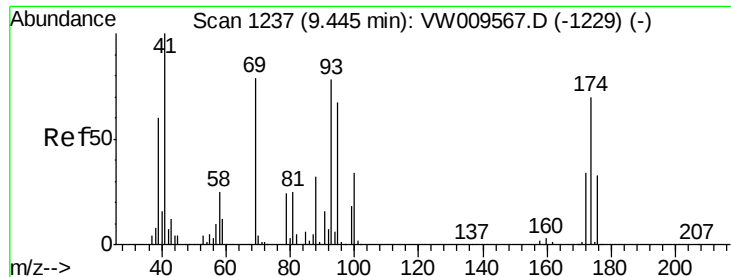
Tot Ion: 78 Resp: 3046
Ion Ratio Lower Upper
78 100
77 32.9 19.8 29.6#



#41
Methacrylonitrile
Concen: 4.533 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.01 min
Lab File: VW009624.D
Acq: 31 Mar 2019 21:30

Tgt Ion: 41 Resp: 71
Ion Ratio Lower Upper
41 100
39 0.0 52.5 78.7#
67 0.0 56.6 84.8#
52 198.6 27.2 40.8#





#49

1,4-Dioxane

Concen: 14.981 ug/l

RT: 9.62 min Scan# 1266

Delta R.T. 0.18 min

Lab File: VW009624.D

Acq: 31 Mar 2019 21:30

Instrument :

MSVOA_W

ClientSampled :

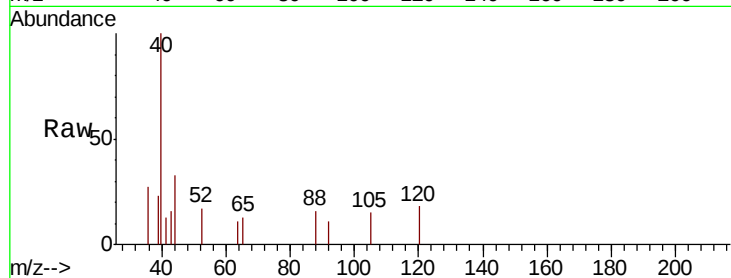
Tot Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 413.8 29.7 44.5#

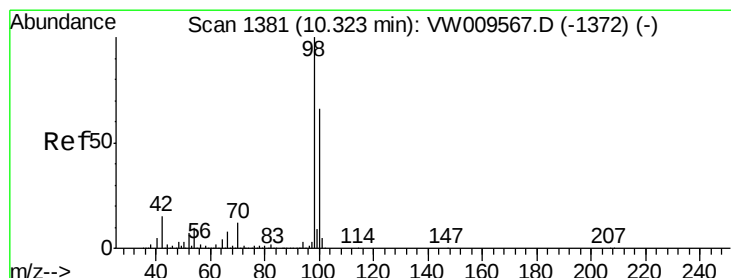
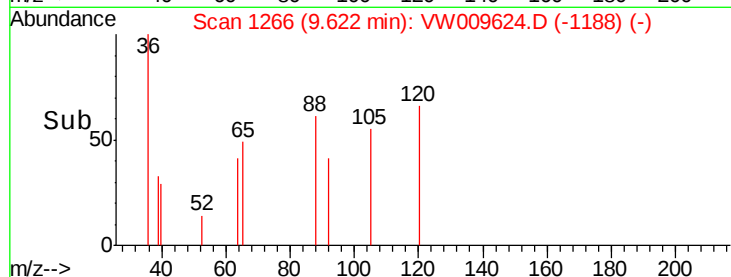
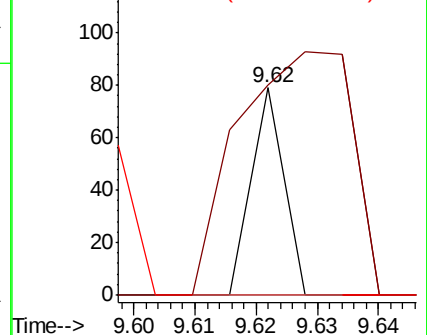
58 0.0 58.1 87.1#



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: 25.170 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. -0.00 min

Lab File: VW009624.D

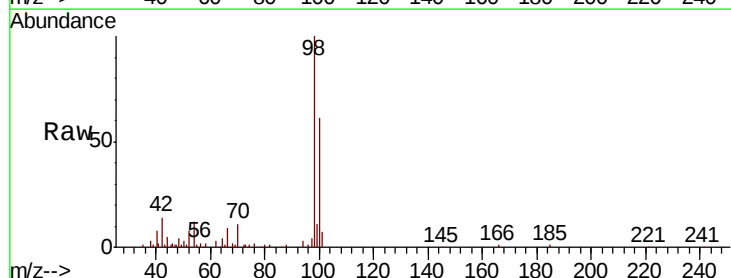
Acq: 31 Mar 2019 21:30

Tgt Ion: 98 Resp: 19552

Ion Ratio Lower Upper

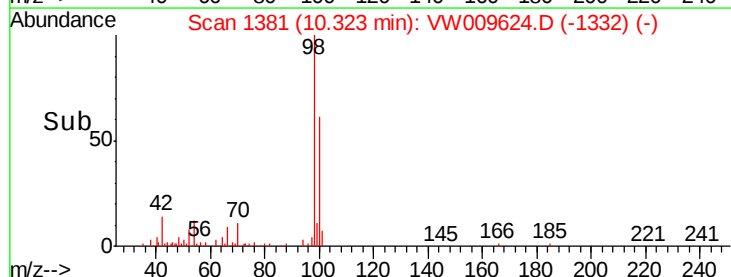
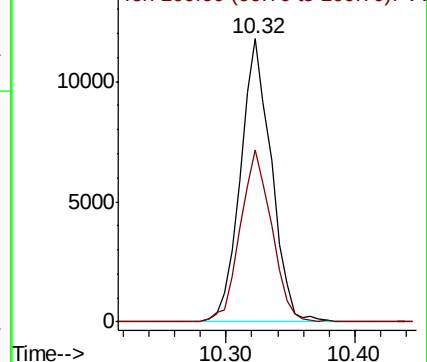
98 100

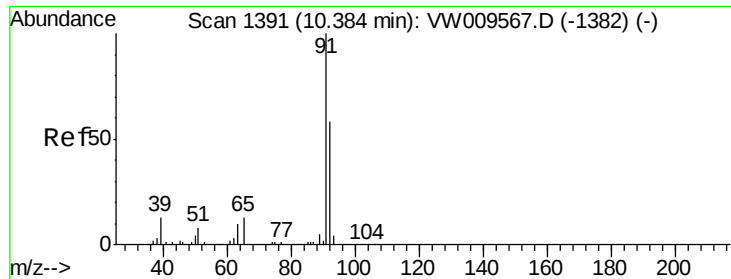
100 61.9 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#52

Toluene

Concen: 16.350 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW009624.D

Acq: 31 Mar 2019 21:30

Instrument :

MSVOA_W

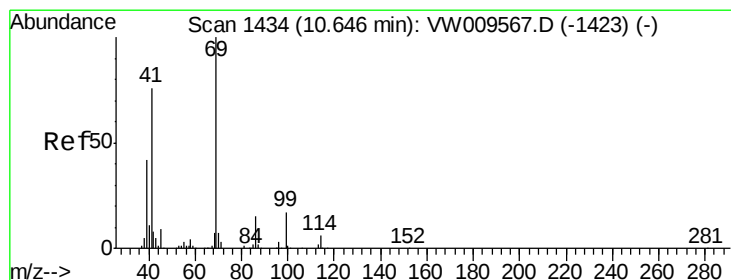
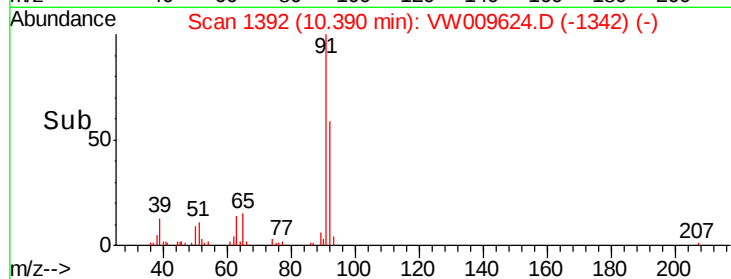
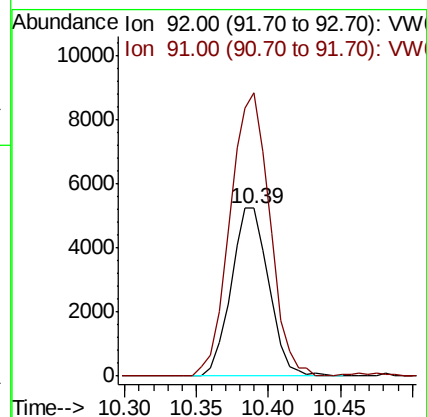
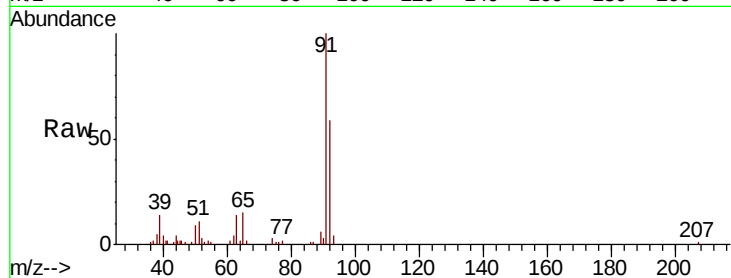
ClientSampleId :

Tot Ion: 92 Resp: 9599

Ion Ratio Lower Upper

92 100

91 176.8 140.1 210.1



#56

Ethyl methacrylate

Concen: 3.922 ug/l

RT: 10.66 min Scan# 1437

Delta R.T. 0.02 min

Lab File: VW009624.D

Acq: 31 Mar 2019 21:30

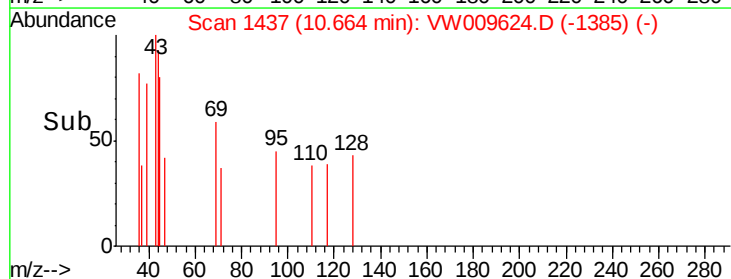
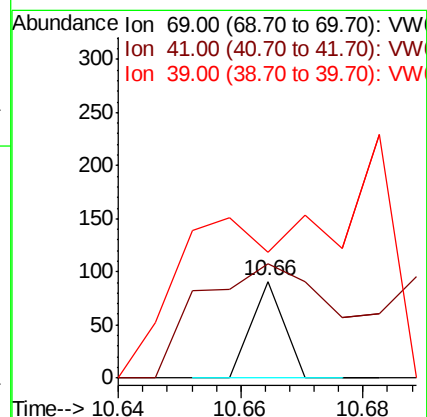
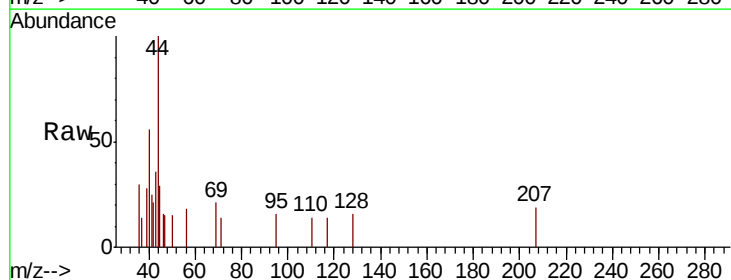
Tgt Ion: 69 Resp: 33

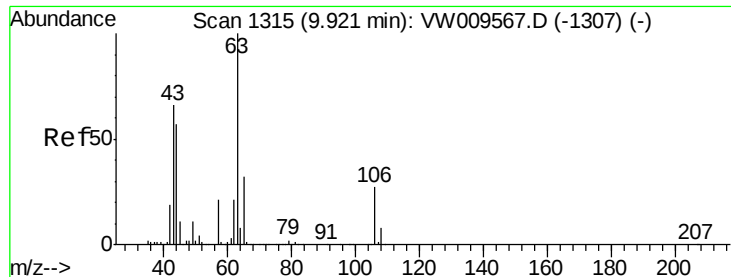
Ion Ratio Lower Upper

69 100

41 642.4 59.3 88.9#

39 512.1 36.2 54.2#

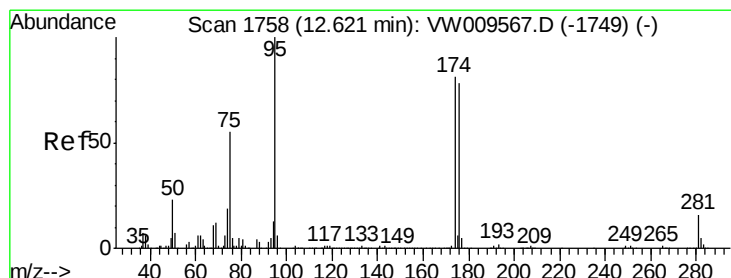
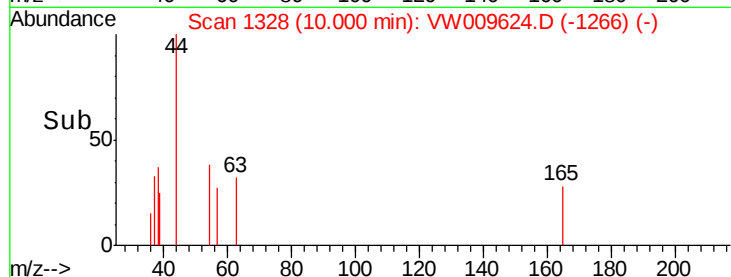
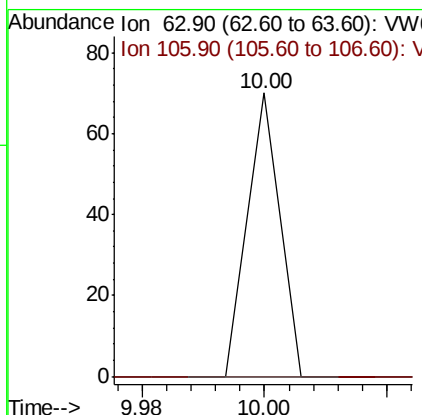
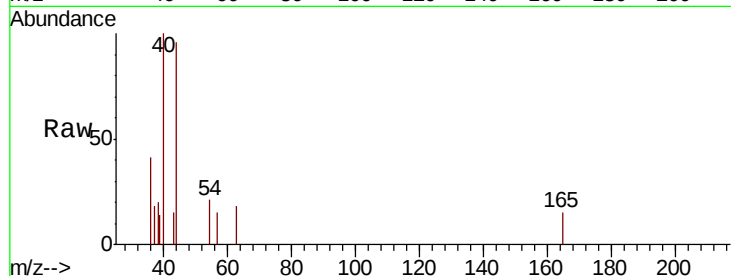




#58
2-Chloroethyl Vinyl ether
Concen: 17.223 ug/l
RT: 10.00 min Scan# 1328
Delta R.T. 0.08 min
Lab File: VW009624.D
Acq: 31 Mar 2019 21:30

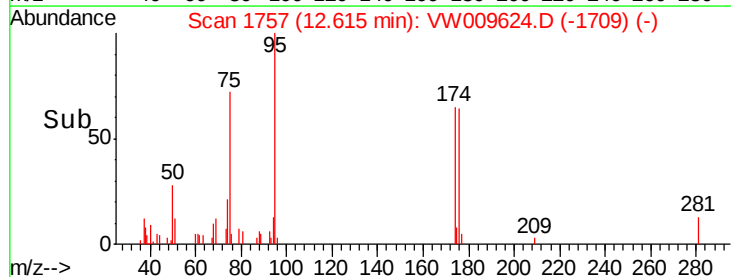
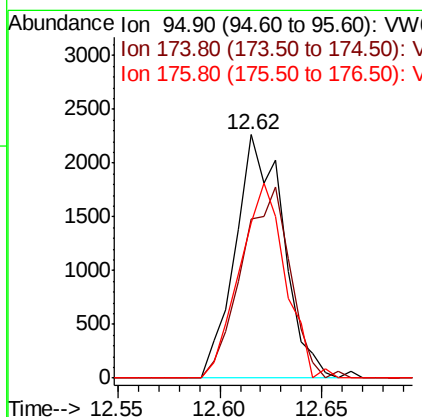
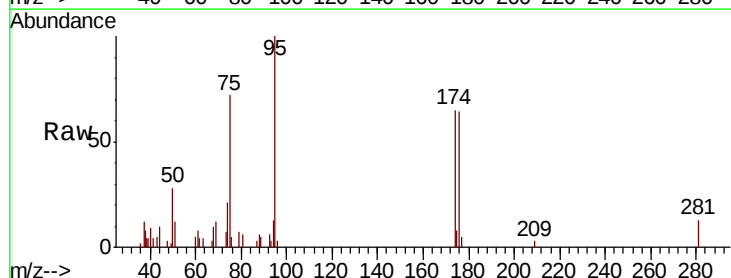
Instrument :
MSVOA_W
ClientSampleId :

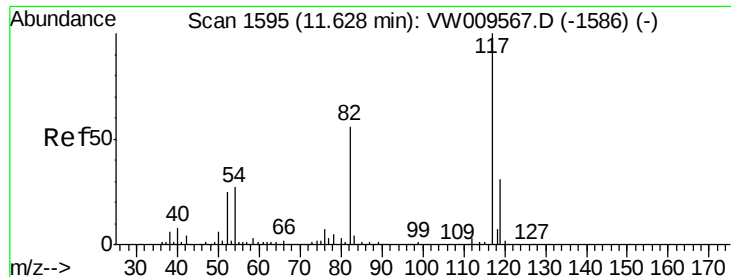
Tot Ion: 63 Resp: 26
Ion Ratio Lower Upper
63 100
106 0.0 22.9 34.3#



#62
4-Bromofluorobenzene
Concen: 12.733 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.01 min
Lab File: VW009624.D
Acq: 31 Mar 2019 21:30

Tgt Ion: 95 Resp: 3690
Ion Ratio Lower Upper
95 100
174 79.7 0.0 168.4
176 76.7 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: VW009624.D

Acq: 31 Mar 2019 21:30

Instrument :

MSVOA_W

ClientSampleId :

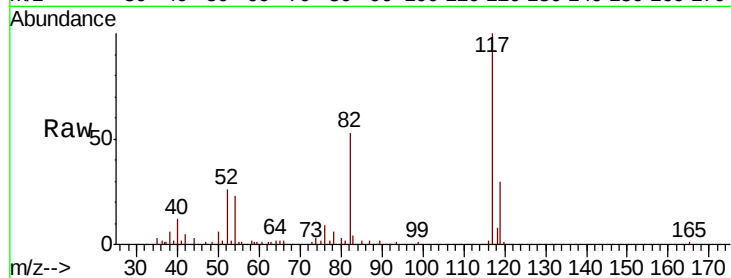
Tot Ion:117 Resp: 17728

Ion Ratio Lower Upper

117 100

82 53.5 43.6 65.4

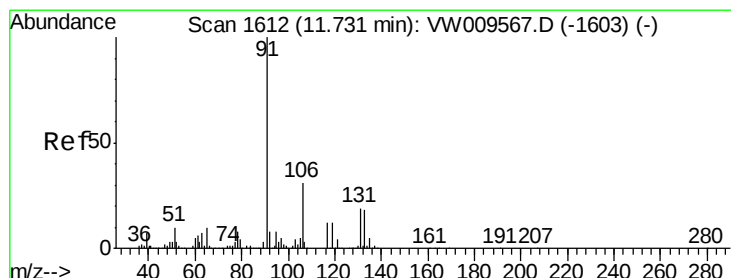
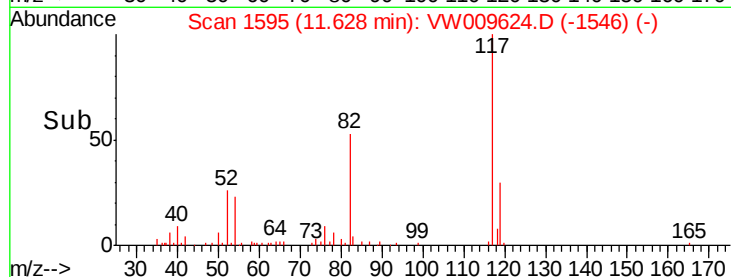
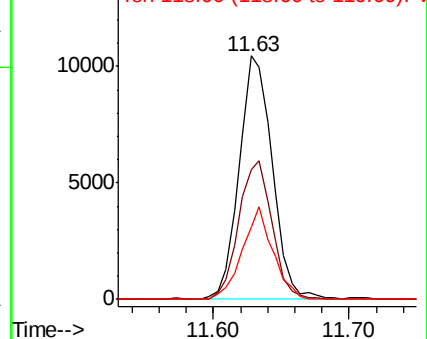
119 29.6 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#67

Ethyl Benzene

Concen: 1.361 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW009624.D

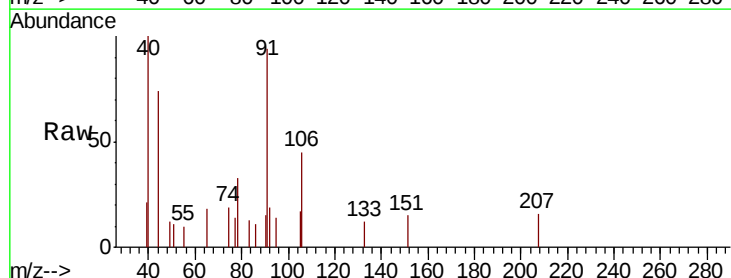
Acq: 31 Mar 2019 21:30

Tgt Ion: 91 Resp: 895

Ion Ratio Lower Upper

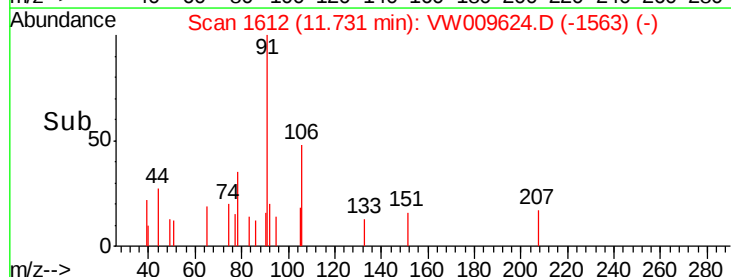
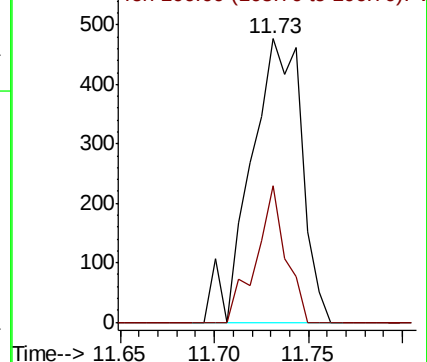
91 100

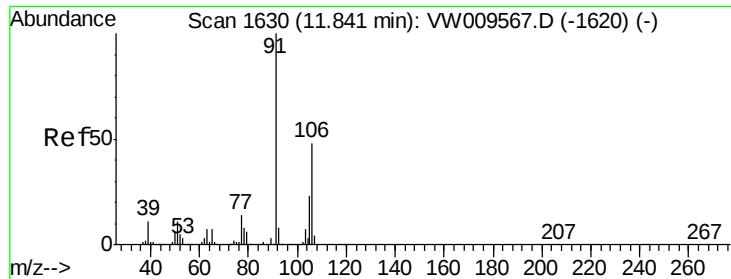
106 48.0 24.6 36.8#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

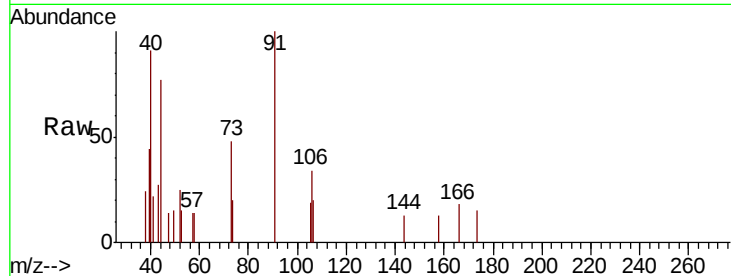




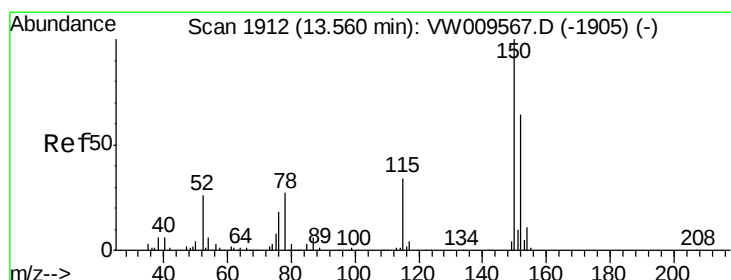
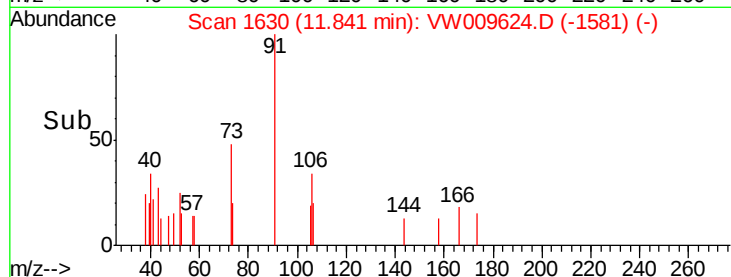
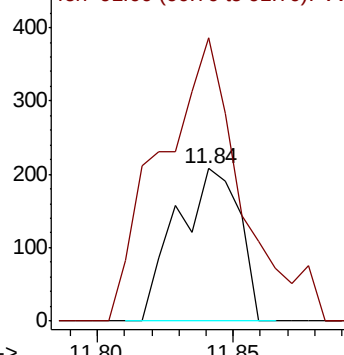
#68
m/p-Xvlenes
Concen: 1.329 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW009624.D
Acq: 31 Mar 2019 21:30

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:106 Resp: 332
Ion Ratio Lower Upper
106 100
91 241.3 163.1 244.7

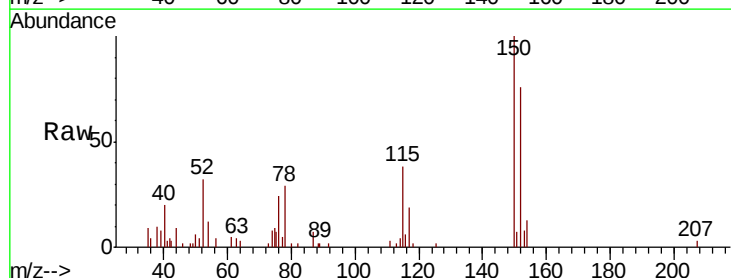


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VW

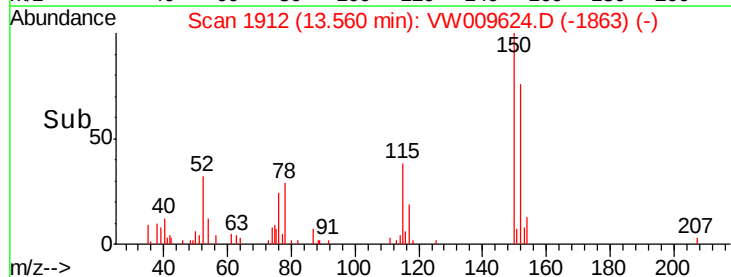
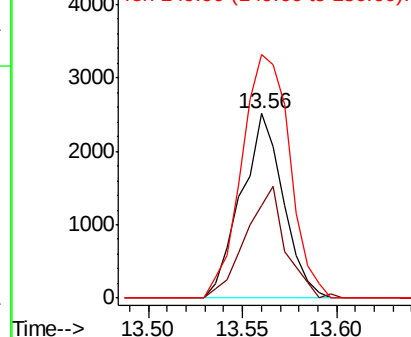


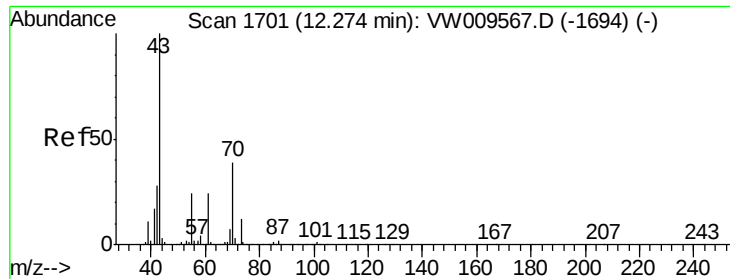
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW009624.D
Acq: 31 Mar 2019 21:30

Tgt Ion:152 Resp: 3906
Ion Ratio Lower Upper
152 100
115 57.1 29.6 88.8
150 150.5 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





#74

N-amvl acetate

Concen: 3.921 ug/l

RT: 12.30 min Scan# 1705

Delta R.T. 0.02 min

Lab File: VW009624.D

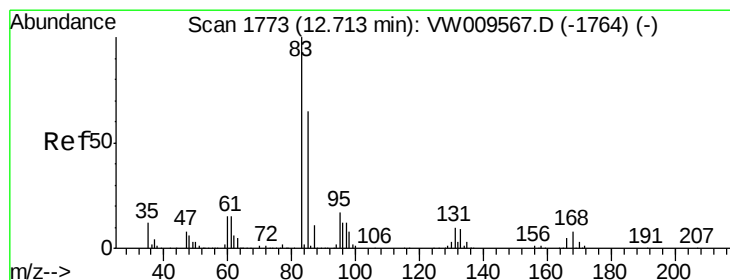
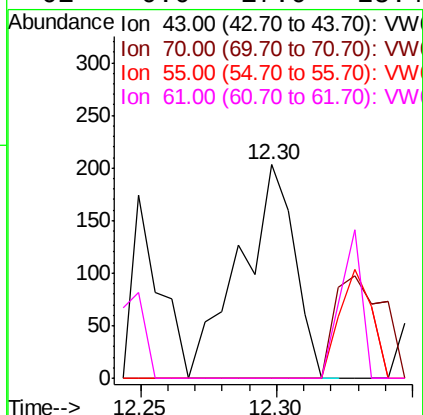
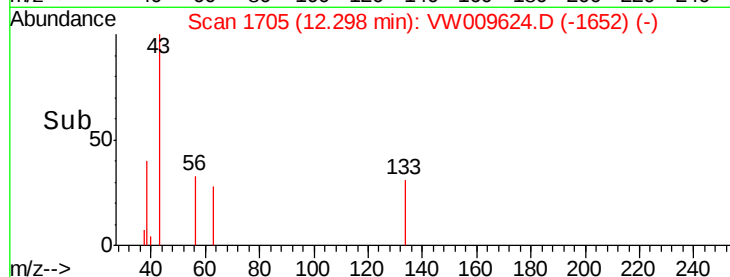
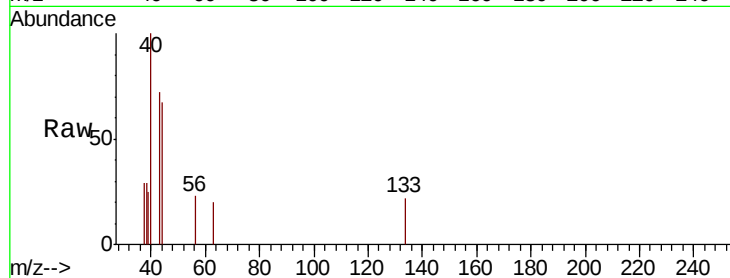
Acq: 31 Mar 2019 21:30

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion:	43	Resp:	281
Ion	Ratio	Lower	Upper
43	100		
70	0.0	30.6	46.0#
55	0.0	19.3	28.9#
61	0.0	17.0	25.4#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.420 ug/l

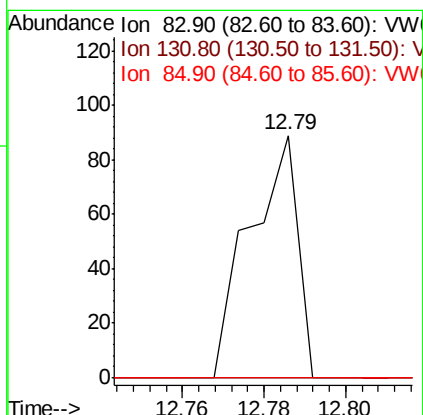
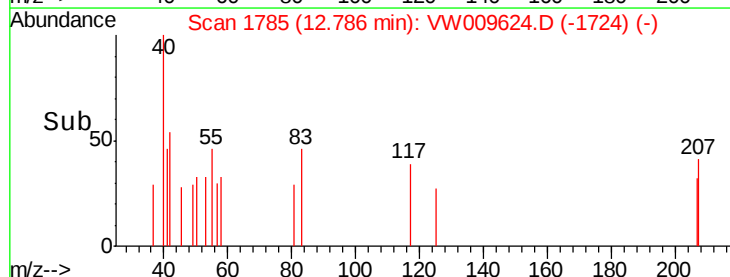
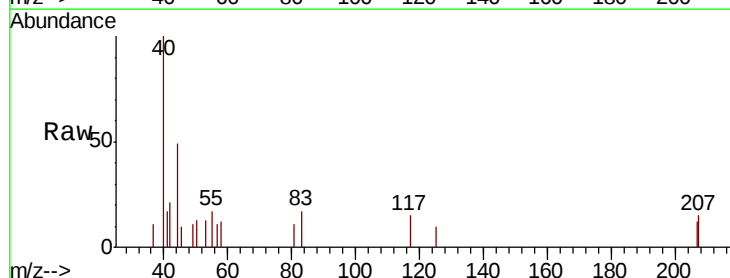
RT: 12.79 min Scan# 1785

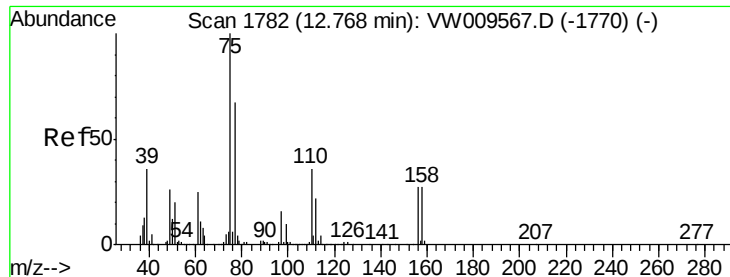
Delta R.T. 0.07 min

Lab File: VW009624.D

Acq: 31 Mar 2019 21:30

Tgt Ion:	83	Resp:	73
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.3	16.1#
85	0.0	32.6	97.8#

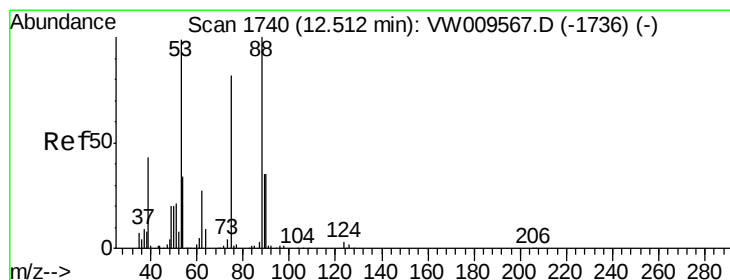
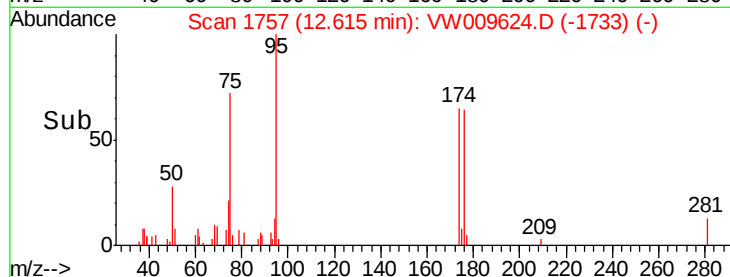
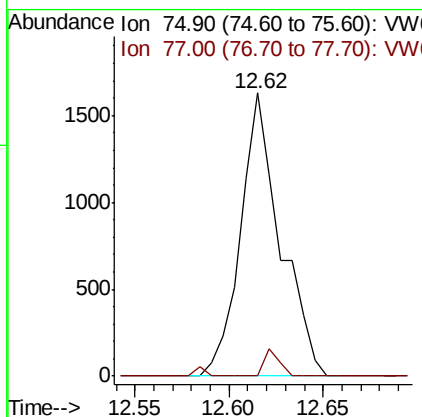
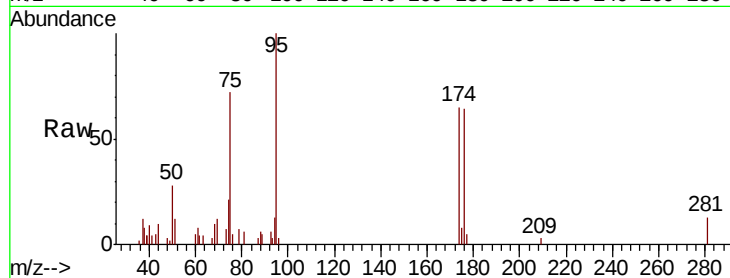




#76
 1,2,3-Trichloropropane
 Concen: 64.903 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.15 min
 Lab File: VW009624.D
 Acq: 31 Mar 2019 21:30

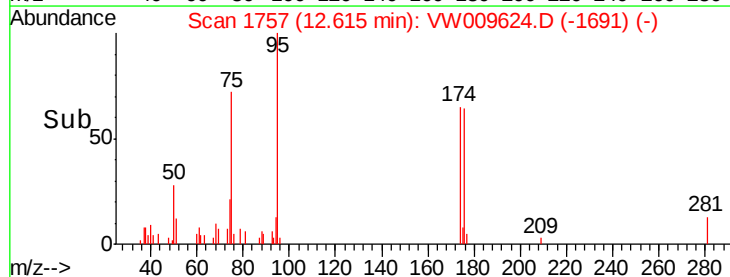
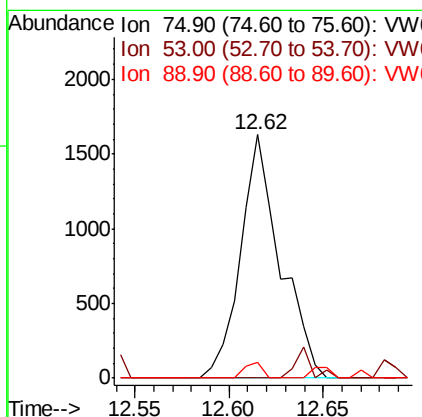
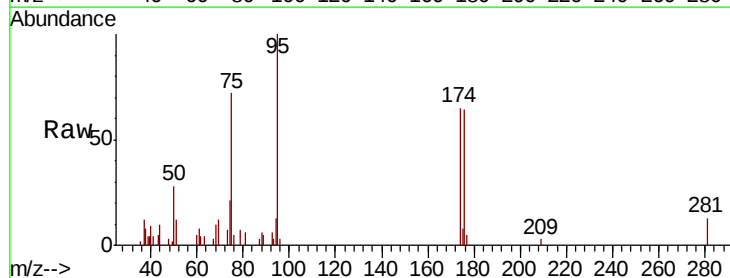
Instrument :
 MSVOA_W
 ClientSampled :

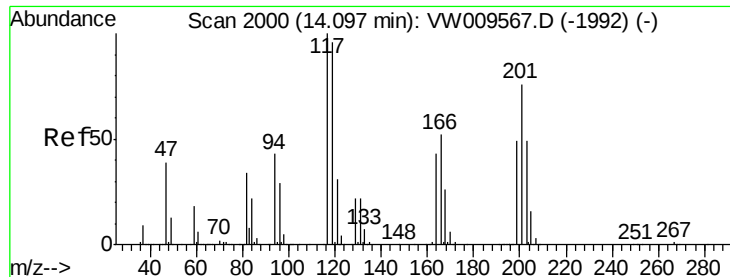
Tot Ion: 75 Resp: 2384
 Ion Ratio Lower Upper
 75 100
 77 3.6 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 150.931 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW009624.D
 Acq: 31 Mar 2019 21:30

Tgt Ion: 75 Resp: 2384
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.7 130.1#
 89 2.9 36.4 54.6#





#90

Hexachloroethane

Concen: 1.123 ug/l

RT: 13.86 min Scan# 1961

Delta R.T. -0.24 min

Lab File: VW009624.D

Acq: 31 Mar 2019 21:30

Instrument :

MSVOA_W

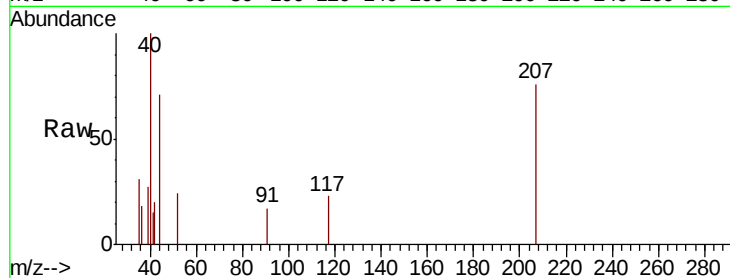
ClientSampled :

Tot Ion:117 Resp: 55

Ion Ratio Lower Upper

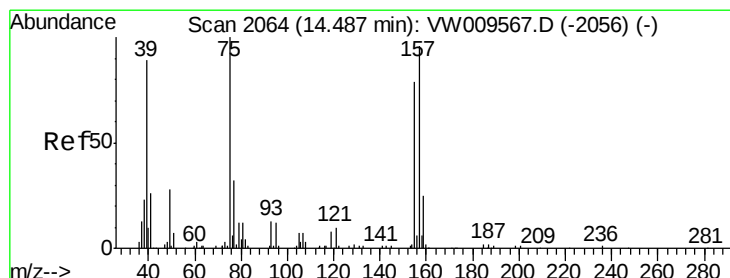
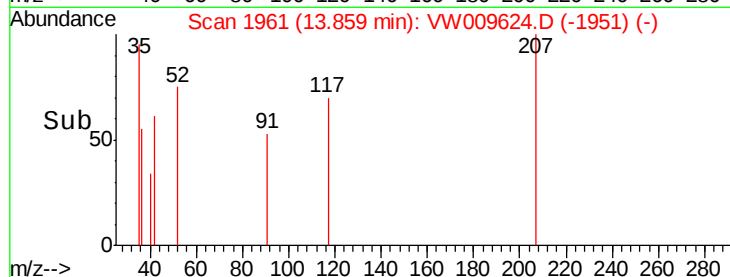
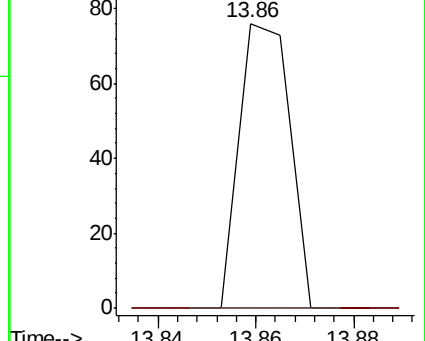
117 100

201 0.0 38.2 114.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 3.410 ug/l

RT: 14.41 min Scan# 2052

Delta R.T. -0.07 min

Lab File: VW009624.D

Acq: 31 Mar 2019 21:30

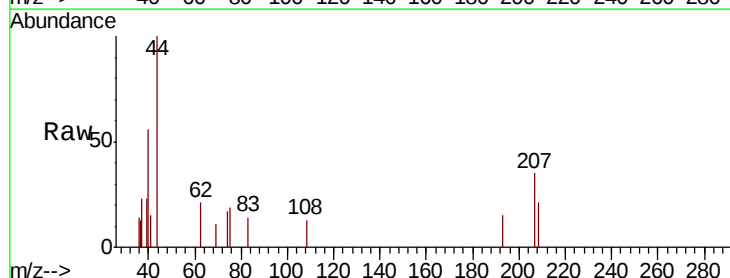
Tgt Ion: 75 Resp: 32

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

