

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW102819\
 Data File : VW013780.D
 Acq On : 28 Oct 2019 21:09
 Operator : SY/VA
 Sample : K5563-11
 Misc : 7.10G/5ML/MSVOA W/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 29 11:49:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 23 14:11:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	247233	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	366907	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	295221	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	115962	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	108910	58.72	ug/l	0.00
Spiked Amount			Recovery	=	117.44%	
35) Dibromofluoromethane	7.88	113	111223	54.55	ug/l	0.00
Spiked Amount			Recovery	=	109.10%	
50) Toluene-d8	10.32	98	416801	50.17	ug/l	0.00
Spiked Amount			Recovery	=	100.34%	
62) 4-Bromofluorobenzene	12.62	95	122976	43.72	ug/l	0.00
Spiked Amount			Recovery	=	87.44%	

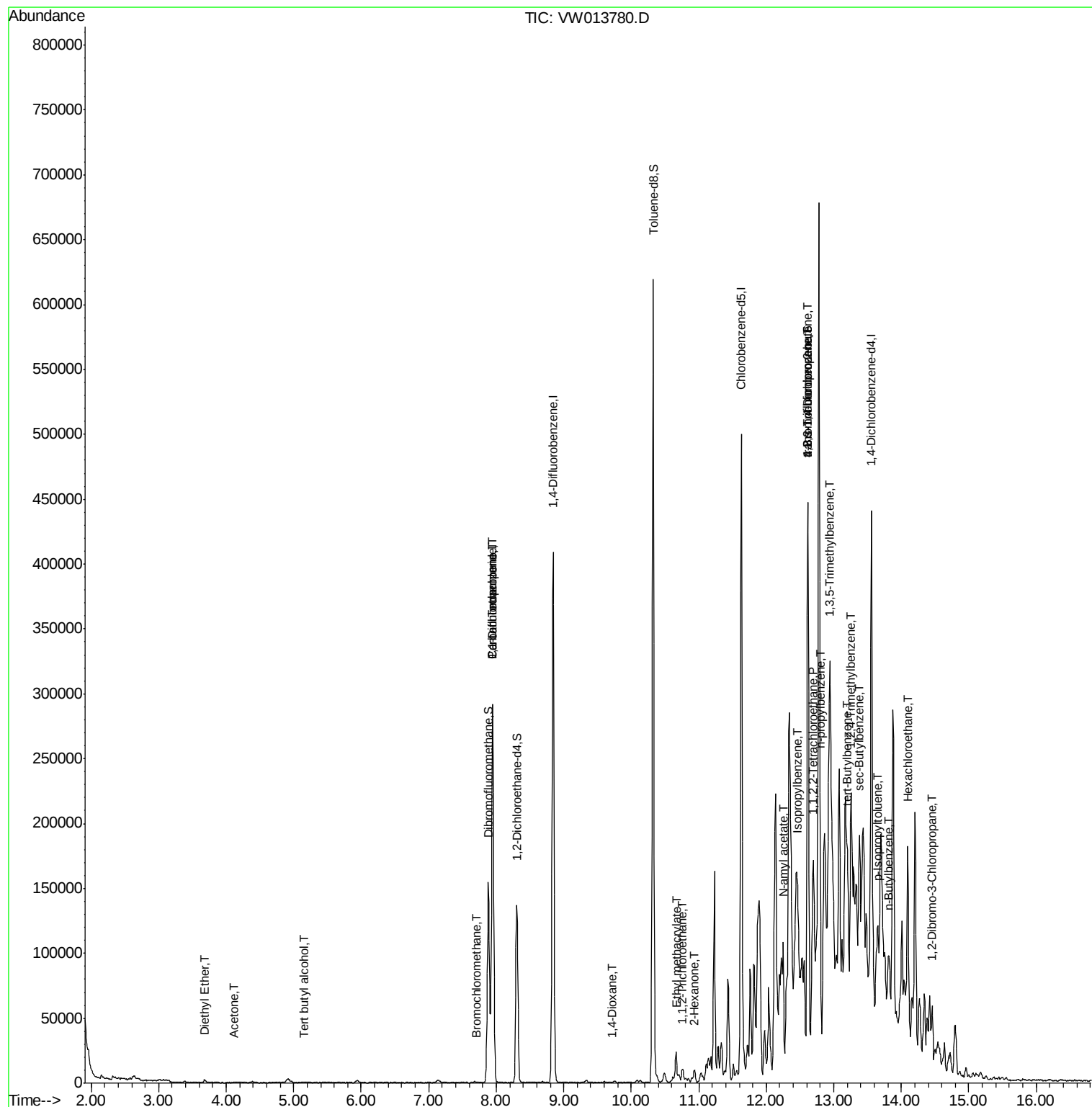
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.68	74	1167	1.094	ug/l	93
11) Tert butyl alcohol	5.14	59	596	5.383	ug/l #	71
16) Acetone	4.12	43	1182	3.006	ug/l #	88
20) Methylene Chloride	4.90	84	2750	Below Cal	#	81
28) Bromochloromethane	7.71	49	27	1.359	ug/l #	7
36) 1,1-Dichloropropene	7.95	75	15428	4.515	ug/l #	48
38) Carbon Tetrachloride	7.95	117	21292	6.920	ug/l #	15
49) 1,4-Dioxane	9.71	88	66	3.984	ug/l #	13
55) 1,1,2-Trichloroethane	10.76	97	3947	2.362	ug/l #	20
56) Ethyl methacrylate	10.66	69	2281	1.091	ug/l #	1
59) 2-Hexanone	10.93	43	4103	4.784	ug/l #	25
73) Isopropylbenzene	12.46	105	26601	3.194	ug/l	96
74) N-amyl acetate	12.25	43	20202	12.541	ug/l #	41
75) 1,1,2,2-Tetrachloroethane	12.69	83	8646	6.579	ug/l #	42
76) 1,2,3-Trichloropropane	12.62	75	56248	67.543	ug/l #	100
78) n-propylbenzene	12.80	91	29508	3.061	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	7081	1.007	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.62	75	56248	127.648	ug/l #	16
83) tert-Butylbenzene	13.21	119	8516	1.365	ug/l	81
84) 1,2,4-Trimethylbenzene	13.25	105	49676	7.164	ug/l	99
85) sec-Butylbenzene	13.38	105	37989	4.452	ug/l #	70
86) p-Isopropyltoluene	13.65	119	31357	3.945	ug/l	97
89) n-Butylbenzene	13.82	91	10920	1.522	ug/l #	78
90) Hexachloroethane	14.10	117	6721	4.865	ug/l #	4
92) 1,2-Dibromo-3-Chloropropan	14.46	75	240	1.208	ug/l #	1

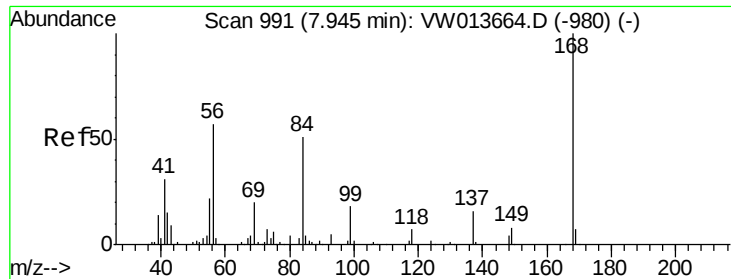
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 23 14:11:46 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.01 min

Lab File: VW013780.D

Acq: 28 Oct 2019 21:09

Instrument :

MSVOA_W

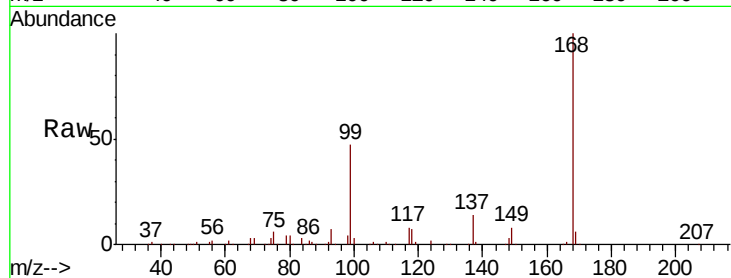
ClientSampled :

Tot Ion:168 Resp: 247233

Ion Ratio Lower Upper

168 100

99 46.7 39.0 58.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

120000

100000

80000

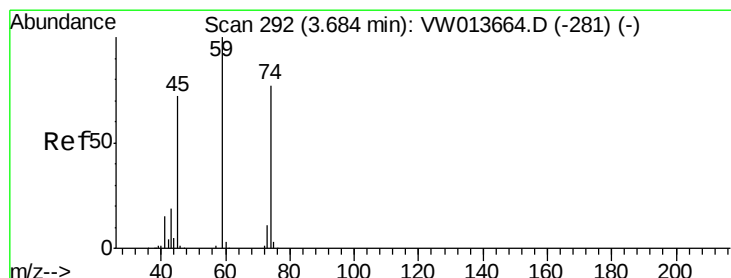
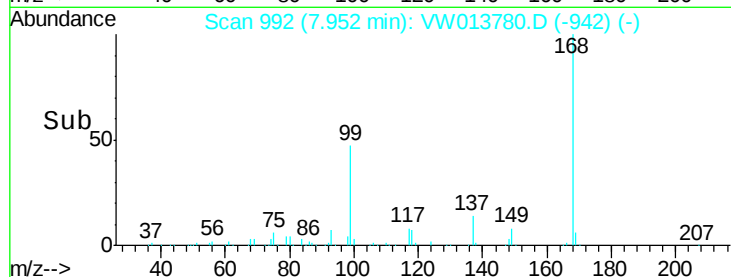
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.094 ug/l

RT: 3.68 min Scan# 291

Delta R.T. -0.01 min

Lab File: VW013780.D

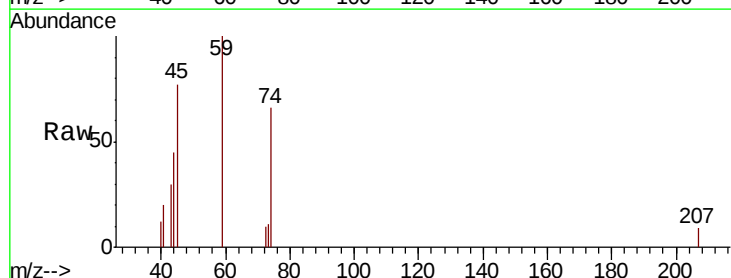
Acq: 28 Oct 2019 21:09

Tgt Ion: 74 Resp: 1167

Ion Ratio Lower Upper

74 100

45 102.8 47.9 143.6



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW

3.68

600

500

400

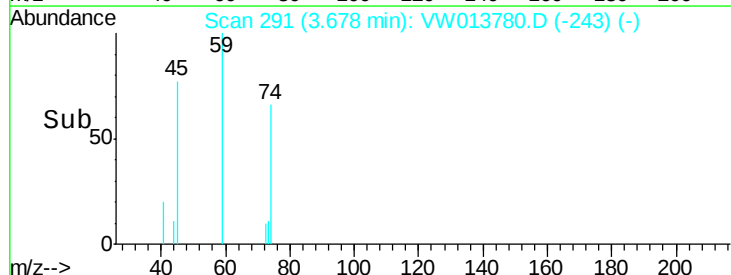
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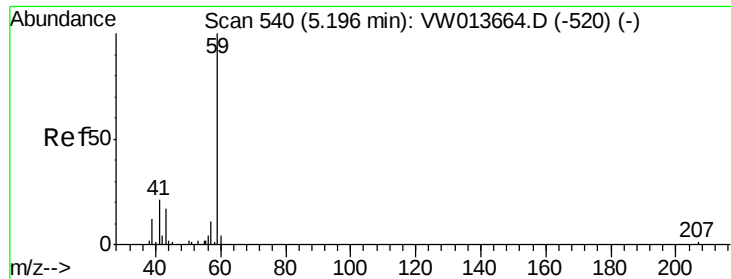
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100

0

Time-->

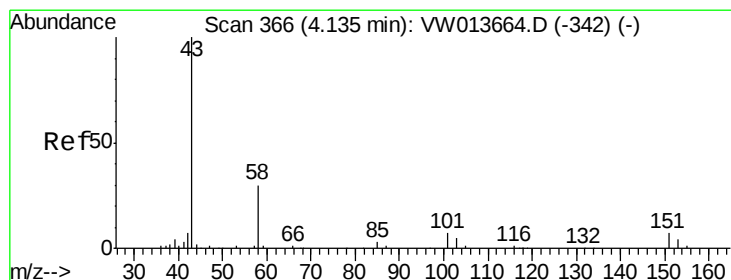
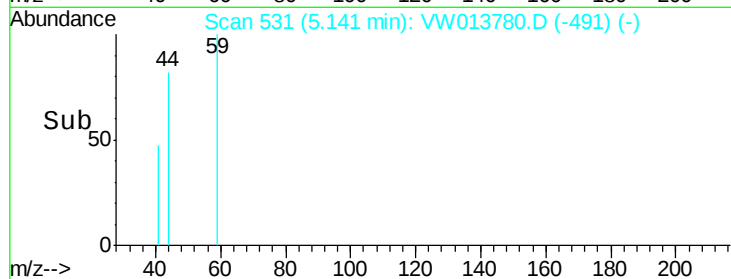
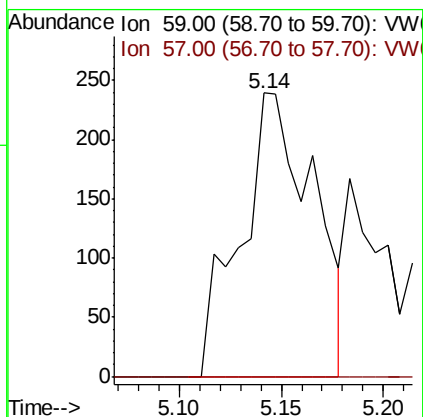
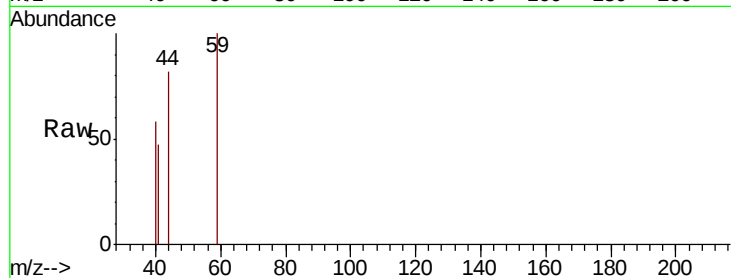




#11
Tert butvl alcohol
Concen: 5.383 ug/l
RT: 5.14 min Scan# 531
Delta R.T. -0.05 min
Lab File: VW013780.D
Acq: 28 Oct 2019 21:09

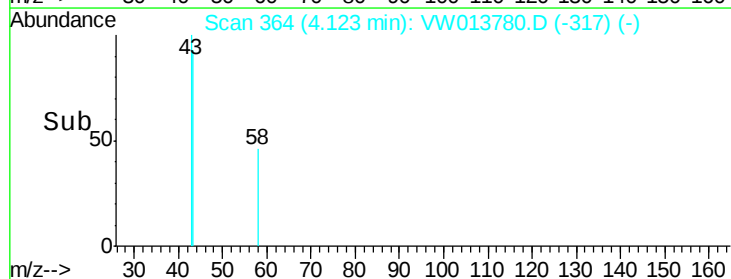
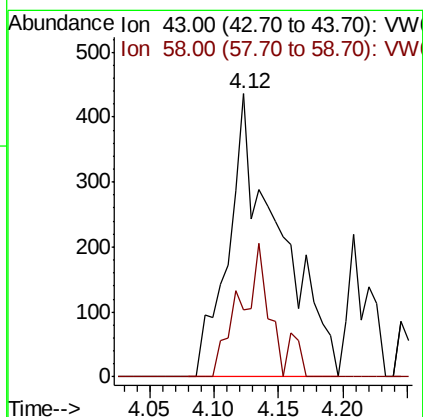
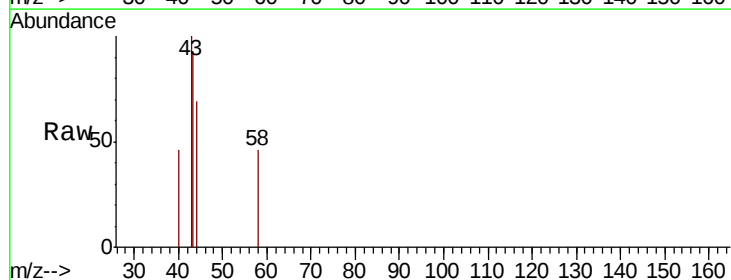
Instrument :
MSVOA_W
ClientSampled :

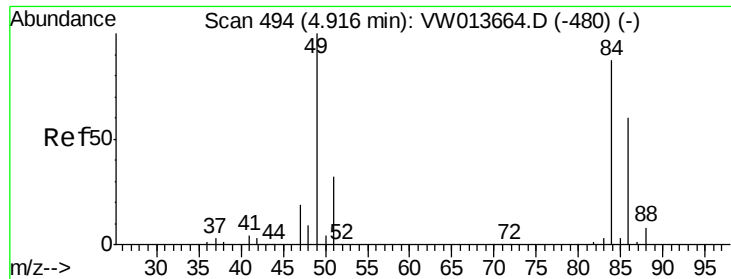
Tot Ion: 59 Resp: 596
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#



#16
Acetone
Concen: 3.006 ug/l
RT: 4.12 min Scan# 364
Delta R.T. -0.01 min
Lab File: VW013780.D
Acq: 28 Oct 2019 21:09

Tgt Ion: 43 Resp: 1182
Ion Ratio Lower Upper
43 100
58 23.9 24.1 36.1#

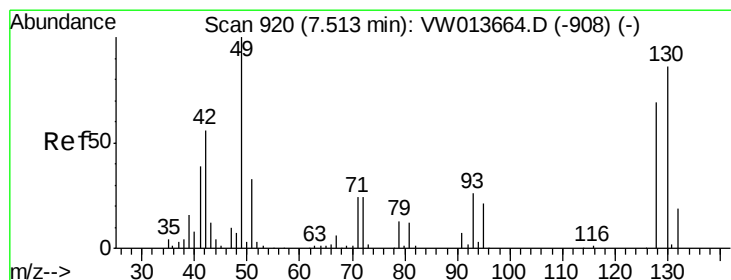
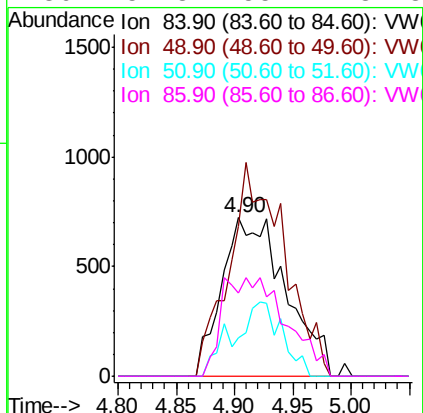
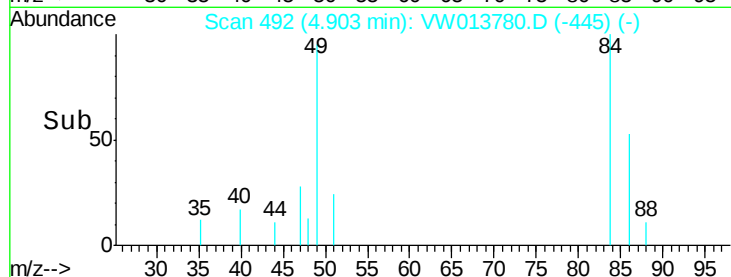
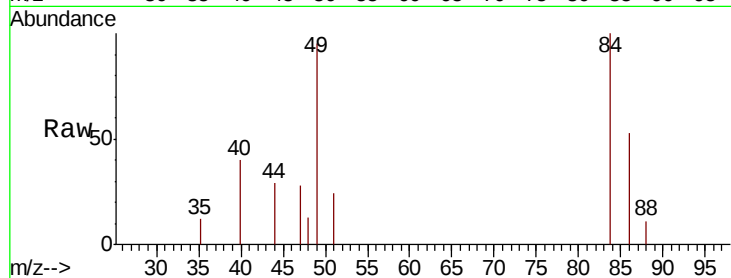




#20
Methvlene Chloride
Concen: Below Cal
RT: 4.90 min Scan# 492
Delta R.T. -0.01 min
Lab File: VW013780.D
Acq: 28 Oct 2019 21:09

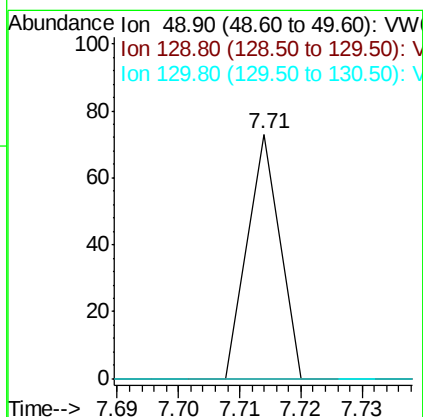
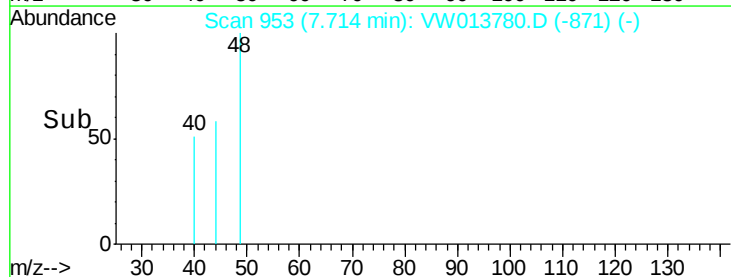
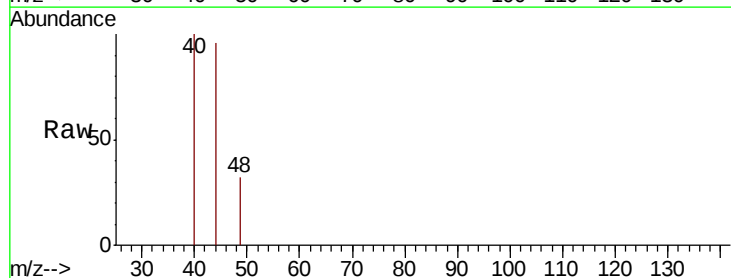
Instrument :
MSVOA_W
ClientSampled :

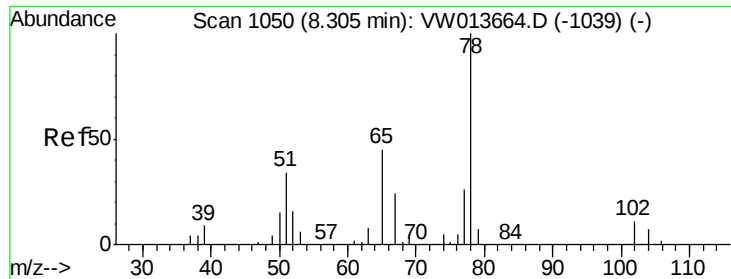
Tot Ion: 84 Resp: 2750
Ion Ratio Lower Upper
84 100
49 94.9 91.8 137.6
51 24.0 29.8 44.6#
86 52.8 55.2 82.8#



#28
Bromochloromethane
Concen: 1.359 ug/l
RT: 7.71 min Scan# 953
Delta R.T. 0.20 min
Lab File: VW013780.D
Acq: 28 Oct 2019 21:09

Tgt Ion: 49 Resp: 27
Ion Ratio Lower Upper
49 100
129 0.0 0.0 0.6
130 0.0 67.5 101.3#

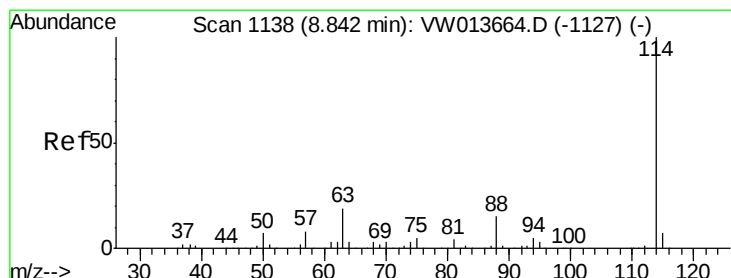
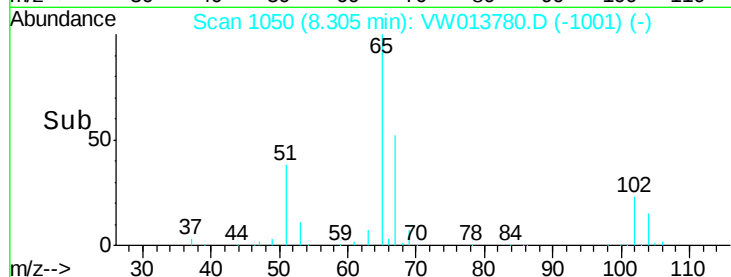
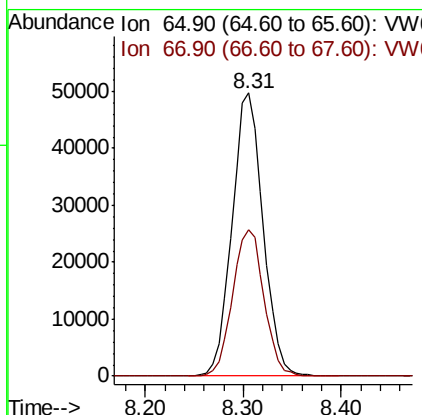
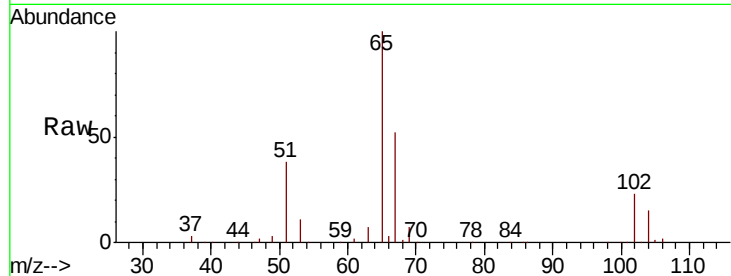




#33
 1,2-Dichloroethane-d4
 Concen: 58.723 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW013780.D
 Acq: 28 Oct 2019 21:09

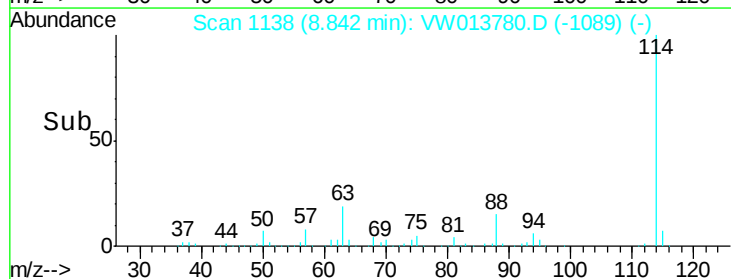
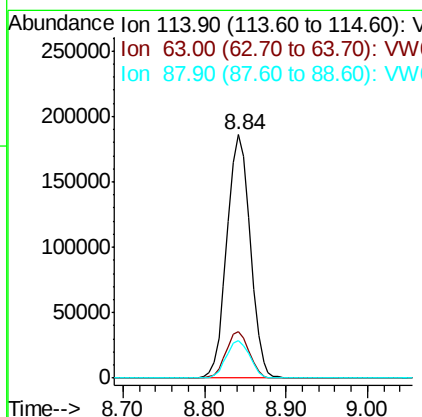
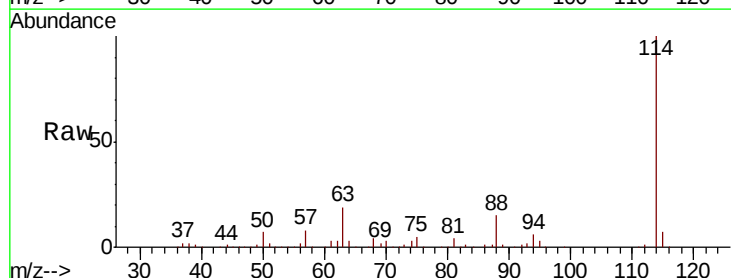
Instrument :
 MSVOA_W
 ClientSampleId :

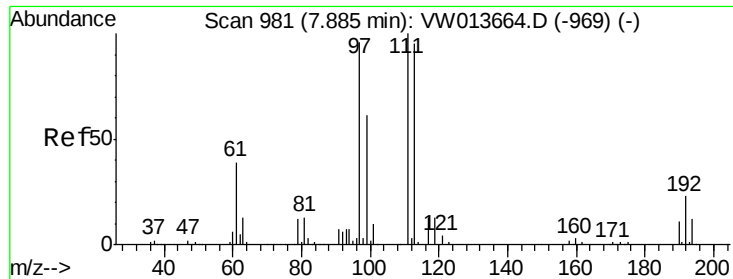
Tot Ion: 65 Resp: 108910
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 109.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW013780.D
 Acq: 28 Oct 2019 21:09

Tgt Ion: 114 Resp: 366907
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 37.6
 88 15.2 0.0 30.2

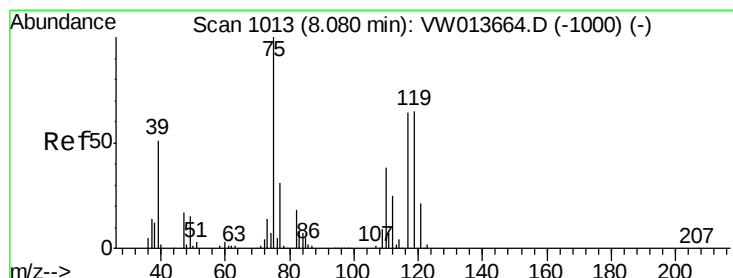
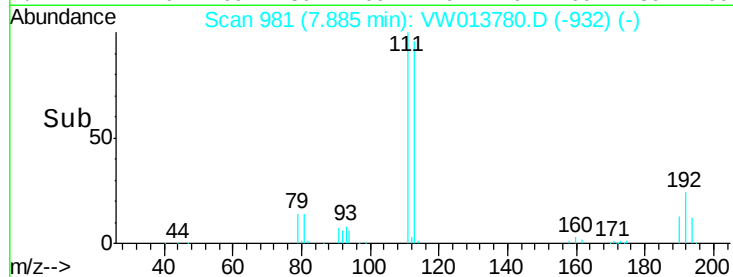
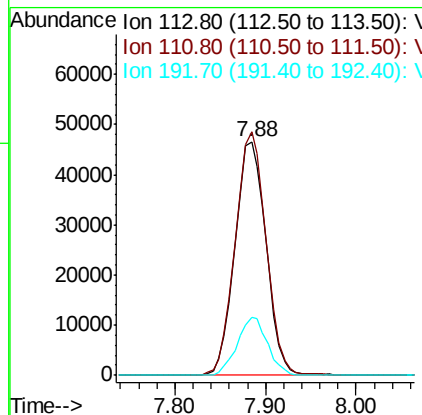
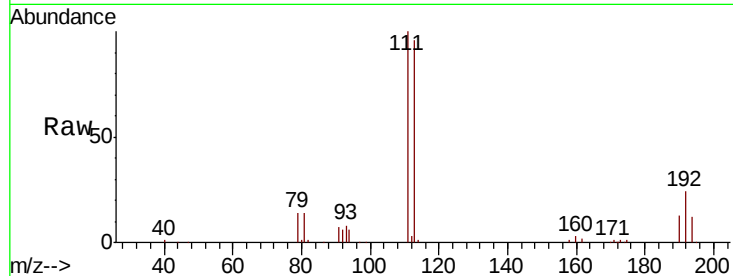




#35
 Dibromofluoromethane
 Concen: 54.555 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW013780.D
 Acq: 28 Oct 2019 21:09

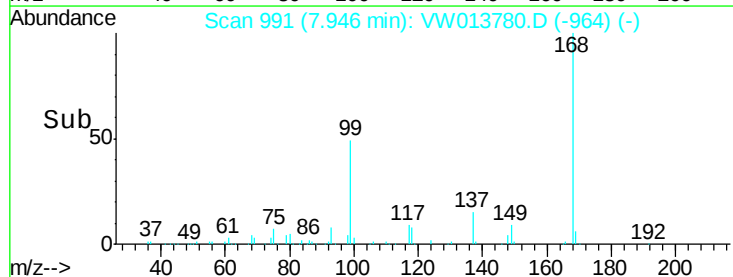
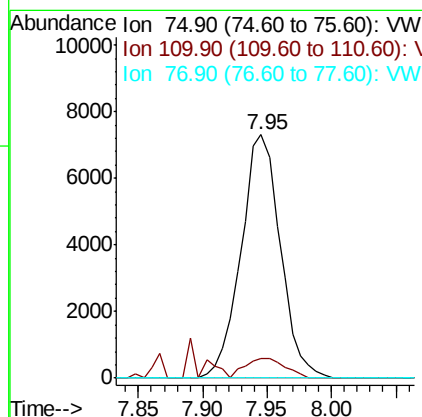
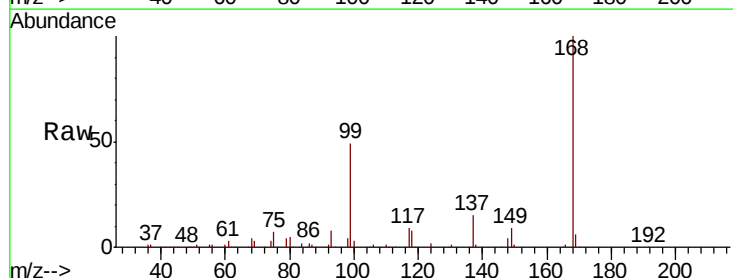
Instrument :
 MSVOA_W
 ClientSampleId :

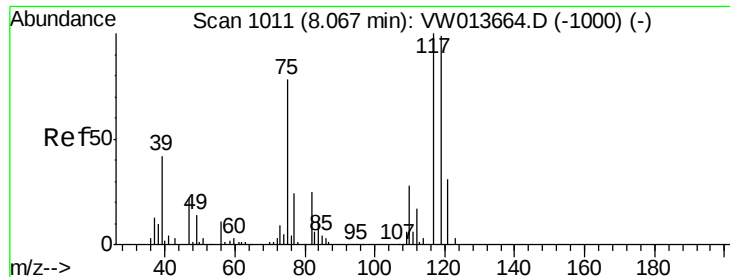
Tot Ion:113 Resp: 111223
 Ion Ratio Lower Upper
 113 100
 111 103.0 83.0 124.6
 192 24.0 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 4.515 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW013780.D
 Acq: 28 Oct 2019 21:09

Tgt Ion: 75 Resp: 15428
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.7 56.1#
 77 0.0 25.4 38.0#





#38

Carbon Tetrachloride

Concen: 6.920 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.12 min

Lab File: VW013780.D

Acq: 28 Oct 2019 21:09

Instrument :

MSVOA_W

ClientSampleId :

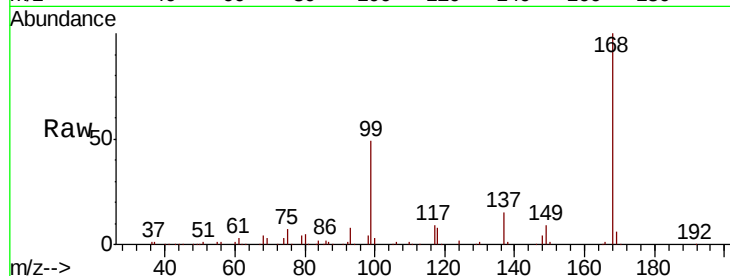
Tot Ion:117 Resp: 21292

Ion Ratio Lower Upper

117 100

119 5.0 79.0 118.4#

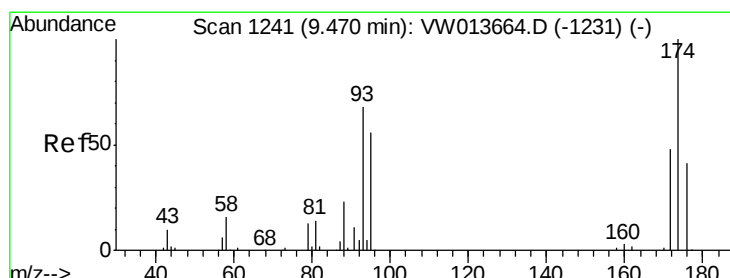
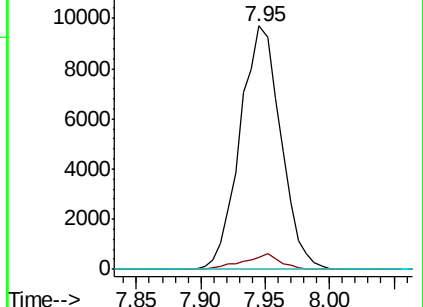
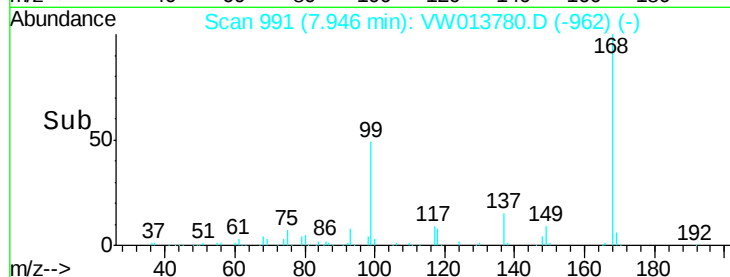
121 0.0 24.5 36.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 3.984 ug/l

RT: 9.71 min Scan# 1281

Delta R.T. 0.24 min

Lab File: VW013780.D

Acq: 28 Oct 2019 21:09

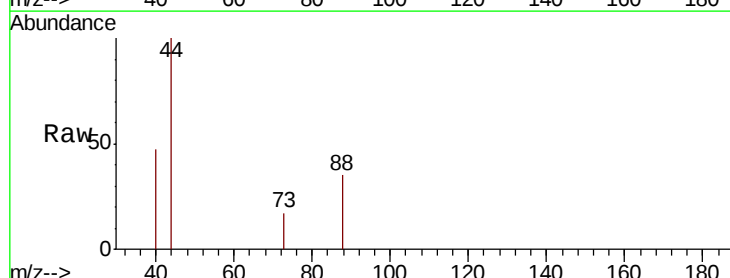
Tgt Ion: 88 Resp: 66

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

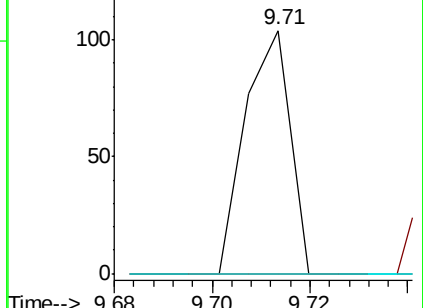
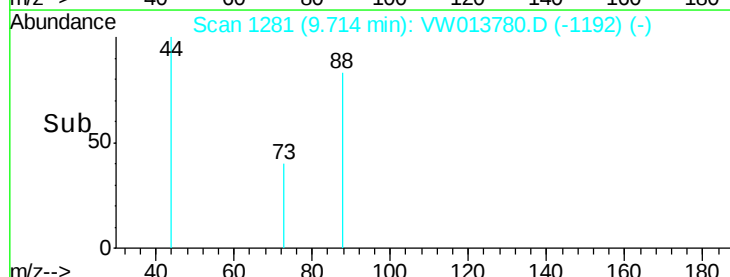
58 0.0 58.9 88.3#

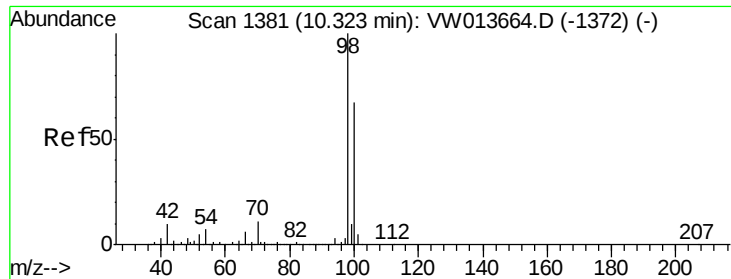


Abundance Ion 88.00 (87.70 to 88.70): VW

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 50.173 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW013780.D

Acq: 28 Oct 2019 21:09

Instrument :

MSVOA_W

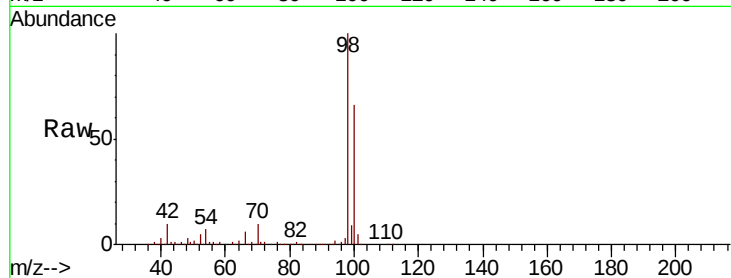
ClientSampled :

Tot Ion: 98 Resp: 416801

Ion Ratio Lower Upper

98 100

100 66.1 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

250000

200000

150000

100000

50000

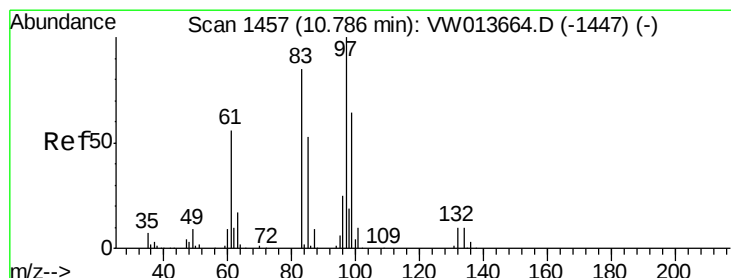
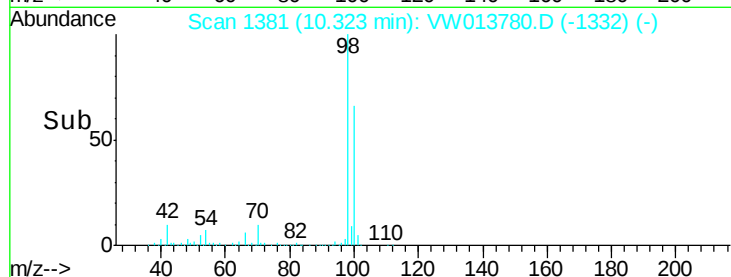
0

10.20

10.30

10.40

Time-->



#55

1,1,2-Trichloroethane

Concen: 2.362 ug/l

RT: 10.76 min Scan# 1452

Delta R.T. -0.03 min

Lab File: VW013780.D

Acq: 28 Oct 2019 21:09

Tgt Ion: 97 Resp: 3947

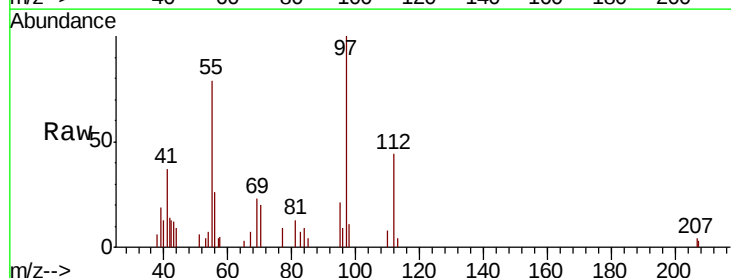
Ion Ratio Lower Upper

97 100

83 7.3 67.8 101.8#

85 4.3 42.1 63.1#

99 0.0 51.4 77.0#



Abundance Ion 96.90 (96.60 to 97.60): VW

Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW

6000

4000

2000

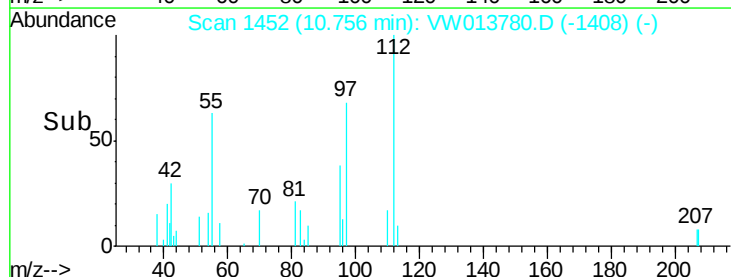
0

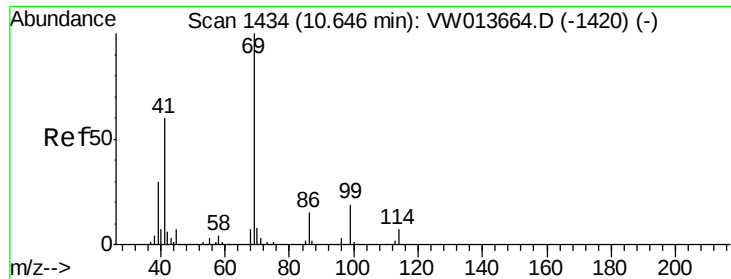
10.70

10.75

10.80

Time-->

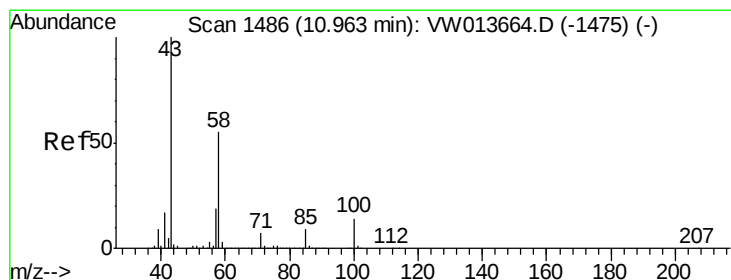
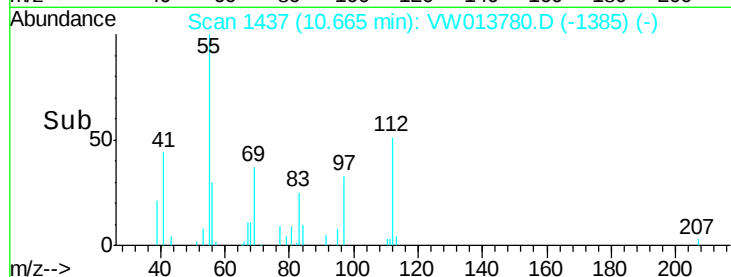
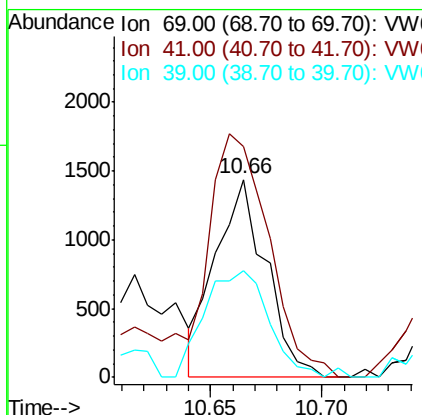
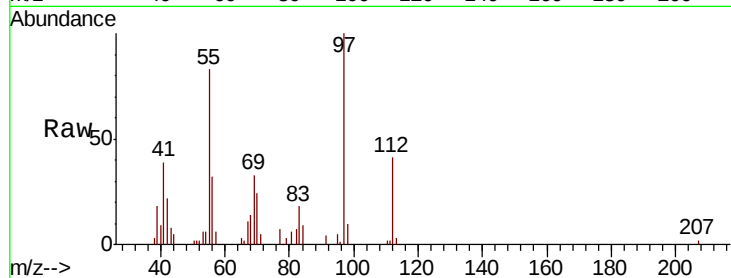




#56
Ethyl methacrylate
Concen: 1.091 ug/l
RT: 10.66 min Scan# 1437
Delta R.T. 0.02 min
Lab File: VW013780.D
Acq: 28 Oct 2019 21:09

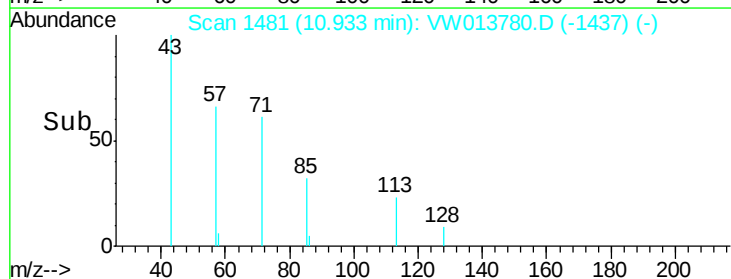
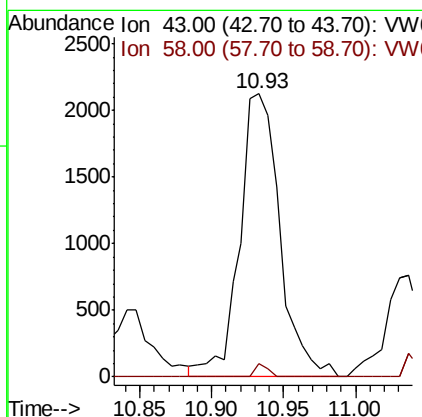
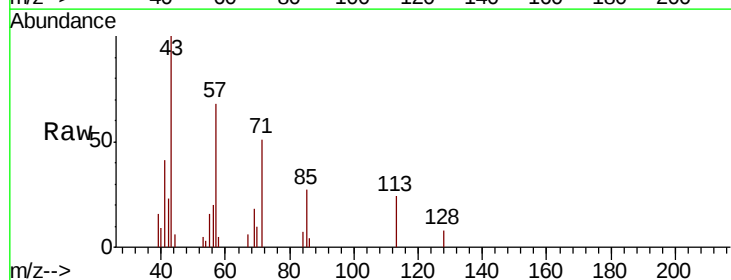
Instrument :
MSVOA_W
ClientSampled :

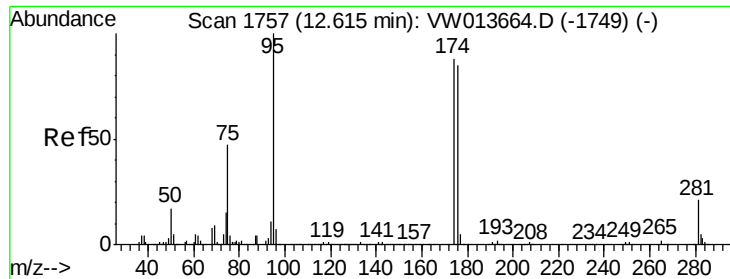
Tot Ion: 69 Resp: 2281
Ion Ratio Lower Upper
69 100
41 151.1 51.6 77.4#
39 68.0 22.4 33.6#



#59
2-Hexanone
Concen: 4.784 ug/l
RT: 10.93 min Scan# 1481
Delta R.T. -0.03 min
Lab File: VW013780.D
Acq: 28 Oct 2019 21:09

Tgt Ion: 43 Resp: 4103
Ion Ratio Lower Upper
43 100
58 1.4 27.9 83.7#

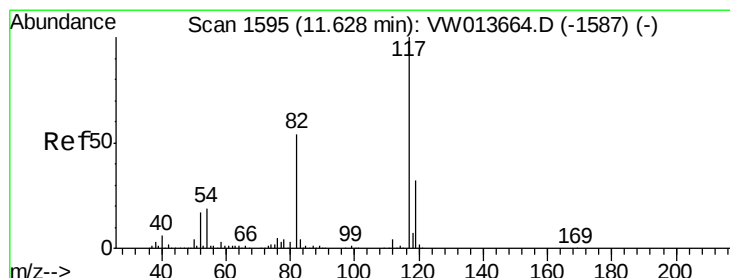
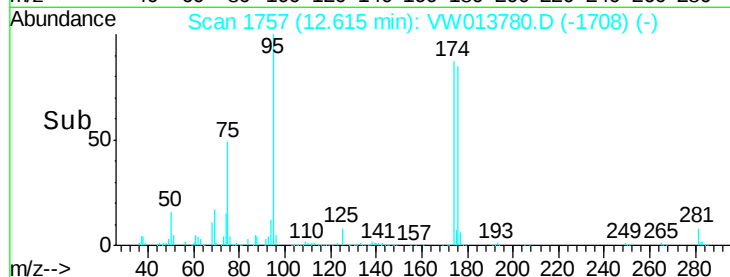
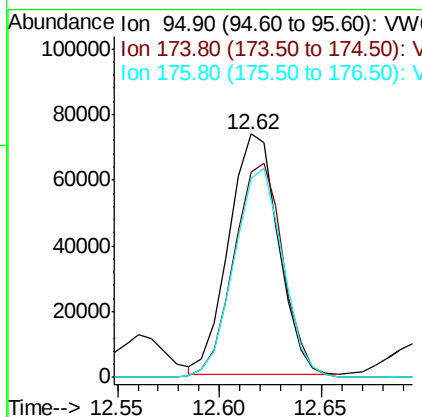
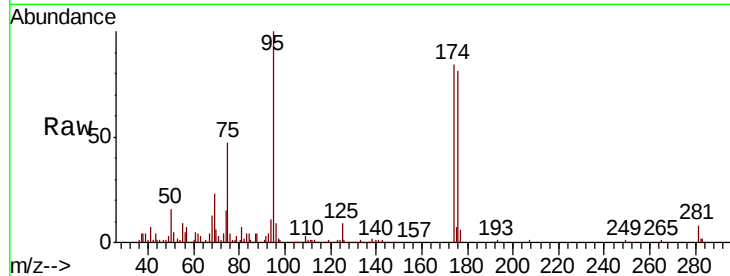




#62
4-Bromofluorobenzene
Concen: 43.719 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW013780.D
Acq: 28 Oct 2019 21:09

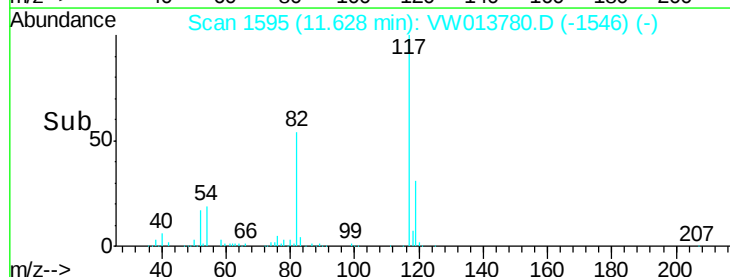
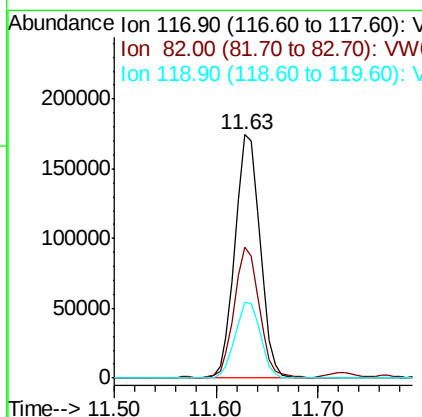
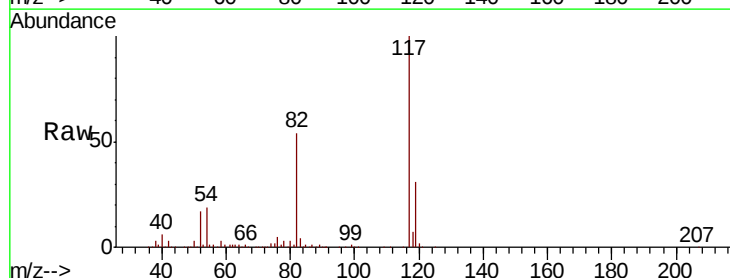
Instrument :
MSVOA_W
ClientSampleId :

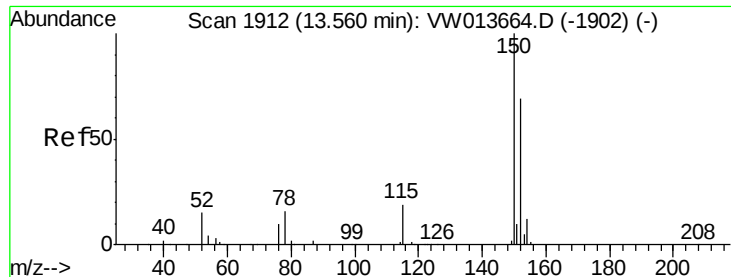
Tot Ion	95	Resp	122976
Ion Ratio	Lower	Upper	
95	100		
174	88.6	0.0	183.6
176	85.9	0.0	178.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW013780.D
Acq: 28 Oct 2019 21:09

Tgt Ion	117	Resp	295221
Ion Ratio	Lower	Upper	
117	100		
82	53.5	43.6	65.4
119	31.2	25.4	38.2



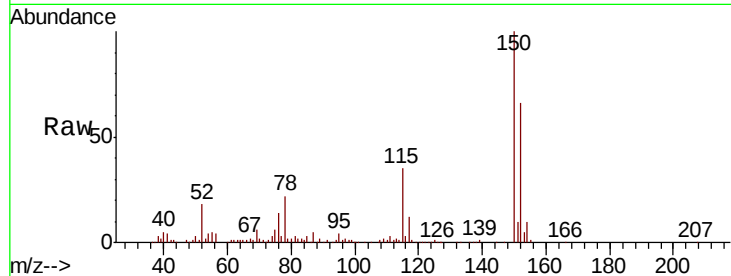


#72

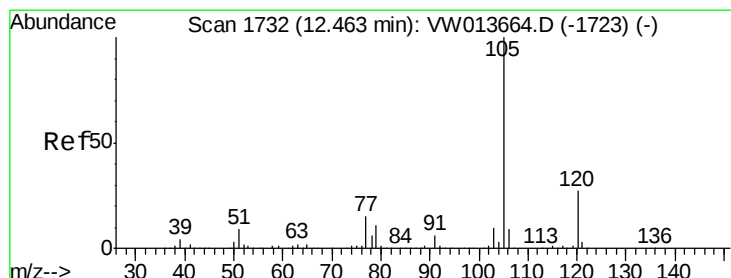
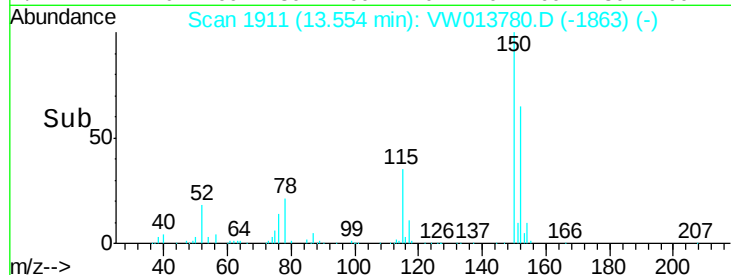
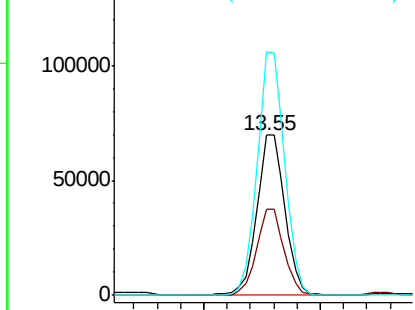
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.01 min
Lab File: VW013780.D
Acq: 28 Oct 2019 21:09

Instrument :
MSVOA_W
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	52.6	27.4	82.2
150	149.2	0.0	345.4



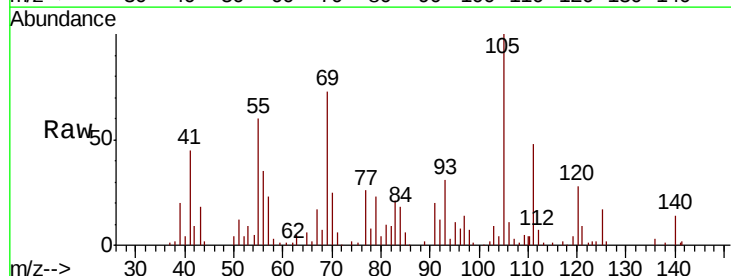
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



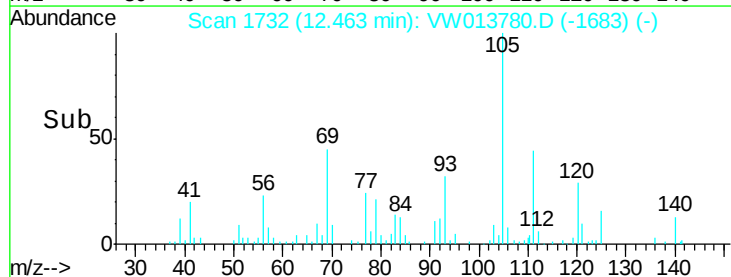
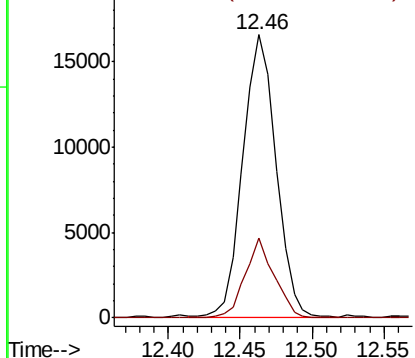
#73

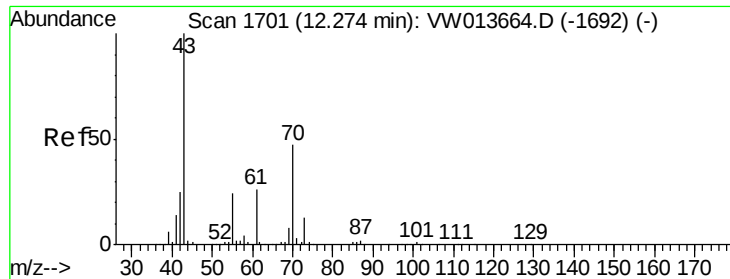
Isopropylbenzene
Concen: 3.194 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VW013780.D
Acq: 28 Oct 2019 21:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.8	13.5	40.4



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 12.541 ug/l

RT: 12.25 min Scan# 1697

Delta R.T. -0.02 min

Lab File: VW013780.D

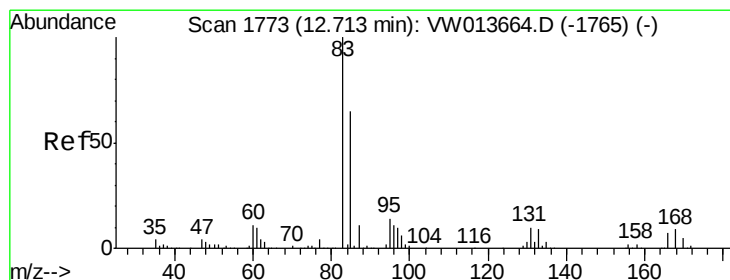
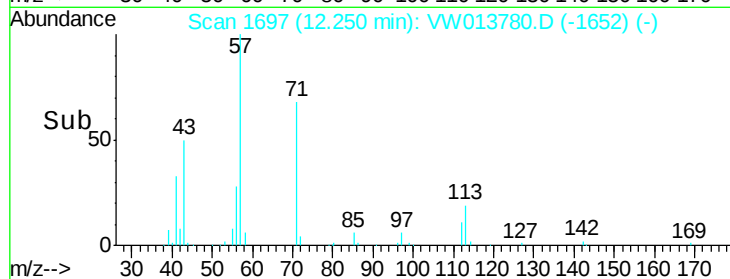
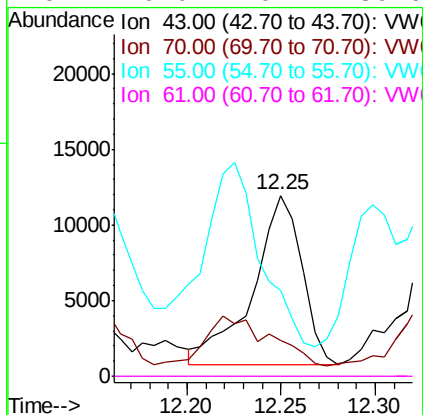
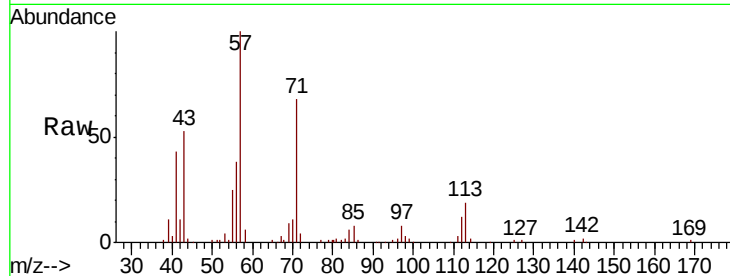
Acq: 28 Oct 2019 21:09

Instrument :

MSVOA_W

ClientSampled :

Tot Ion:	43	Resp:	20202
Ion	Ratio	Lower	Upper
43	100		
70	0.0	36.6	55.0#
55	0.0	20.3	30.5#
61	0.0	20.4	30.6#



#75

1,1,2,2-Tetrachloroethane

Concen: 6.579 ug/l

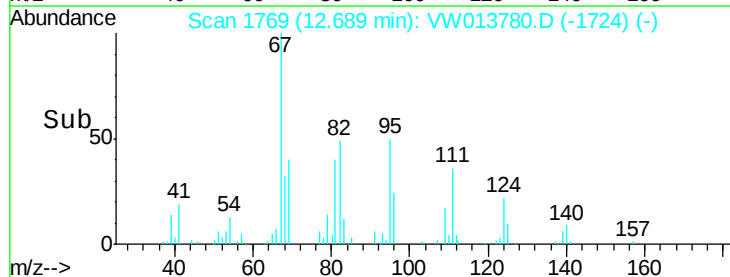
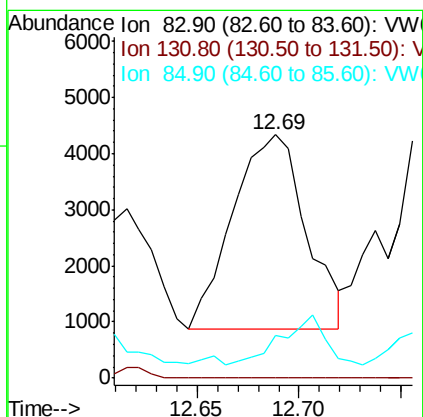
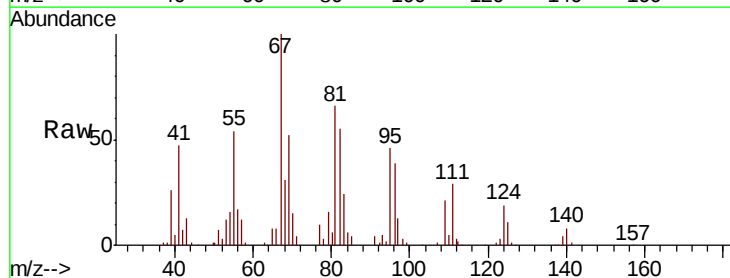
RT: 12.69 min Scan# 1769

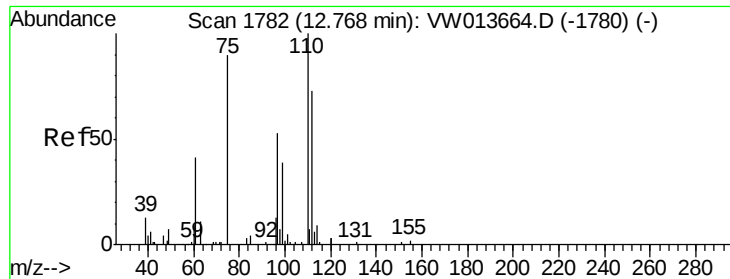
Delta R.T. -0.02 min

Lab File: VW013780.D

Acq: 28 Oct 2019 21:09

Tgt Ion:	83	Resp:	8646
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.7	17.1#
85	15.6	32.5	97.4#



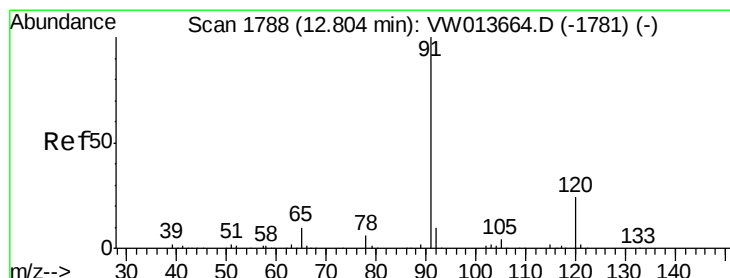
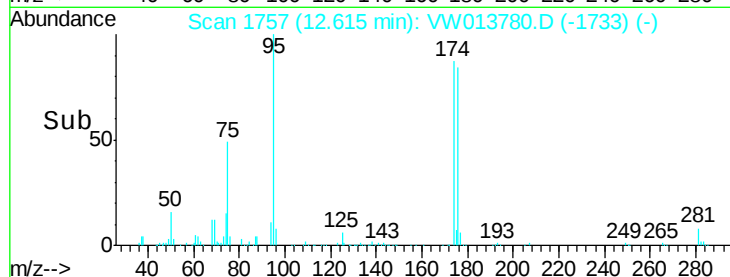
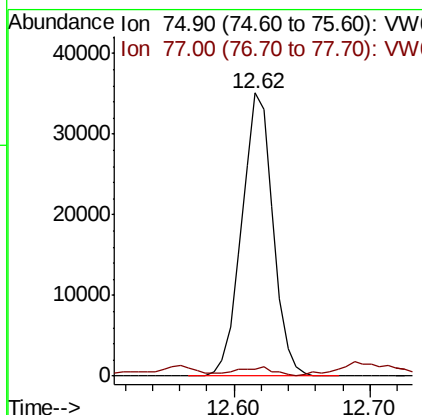
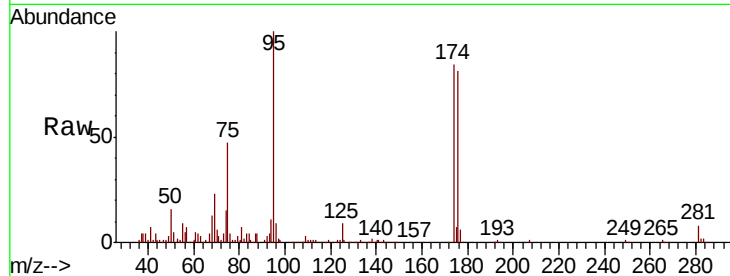


#76

1,2,3-Trichloropropane
Concen: 67.543 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. -0.15 min
Lab File: VW013780.D
Acq: 28 Oct 2019 21:09

Instrument :
MSVOA_W
ClientSampled :

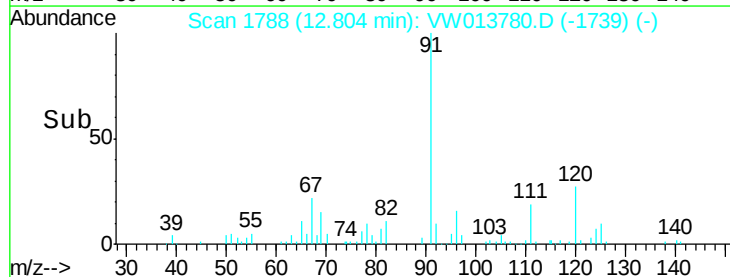
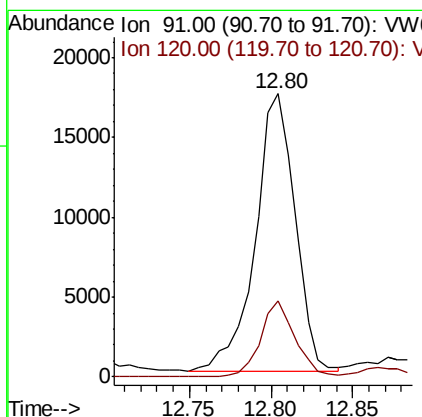
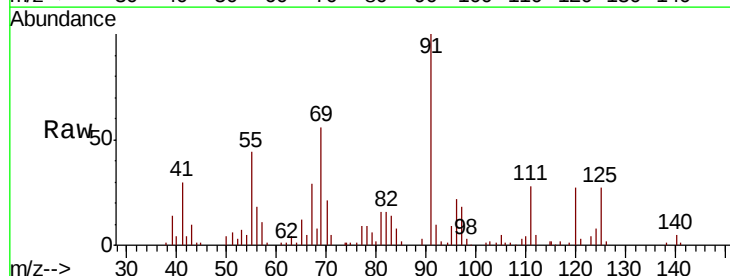
Tot Ion: 75 Resp: 56248
Ion Ratio Lower Upper
75 100
77 3.3 0.0 0.0#

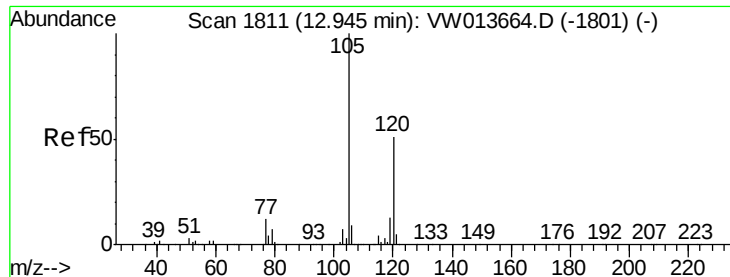


#78

n-propylbenzene
Concen: 3.061 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. 0.00 min
Lab File: VW013780.D
Acq: 28 Oct 2019 21:09

Tgt Ion: 91 Resp: 29508
Ion Ratio Lower Upper
91 100
120 23.7 12.0 36.0

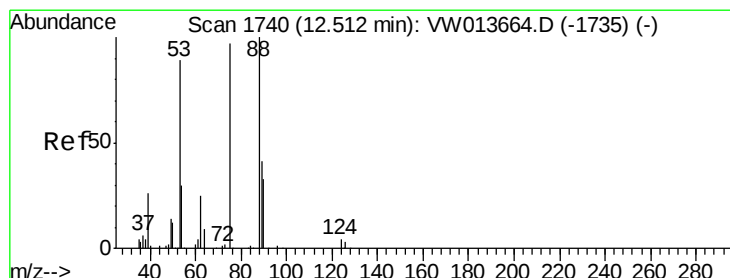
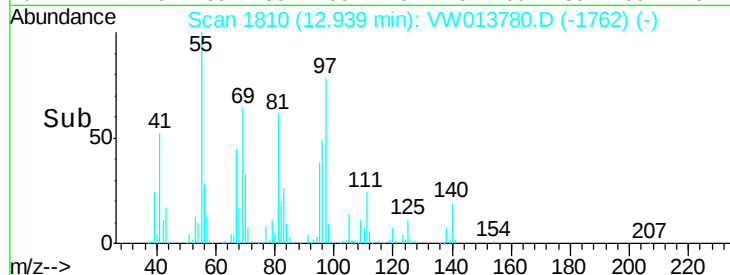
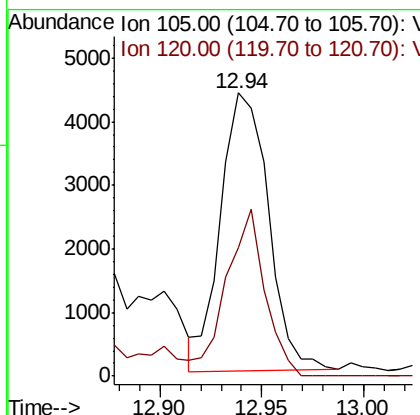
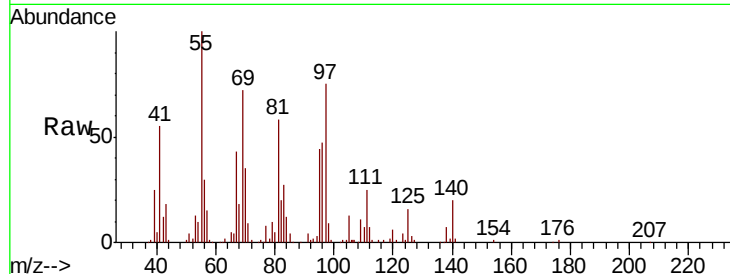




#80
 1,3,5-Trimethylbenzene
 Concen: 1.007 ug/l
 RT: 12.94 min Scan# 1810
 Delta R.T. -0.01 min
 Lab File: VW013780.D
 Acq: 28 Oct 2019 21:09

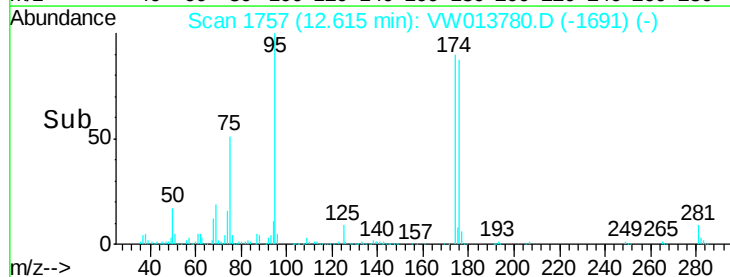
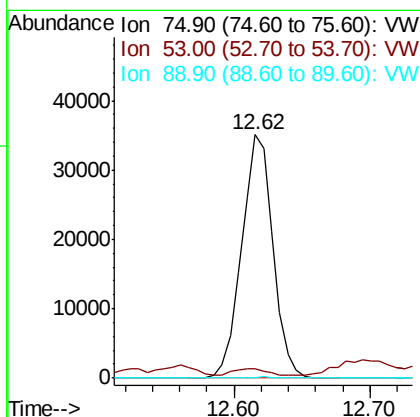
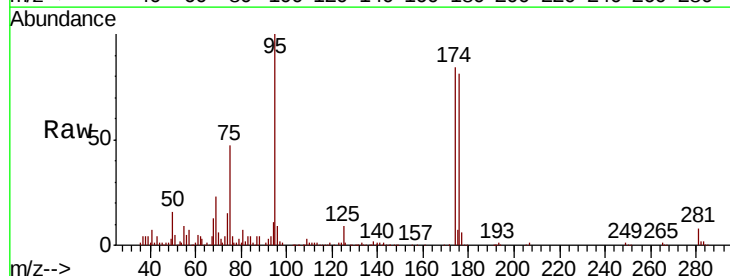
Instrument :
 MSVOA_W
 ClientSampleId :

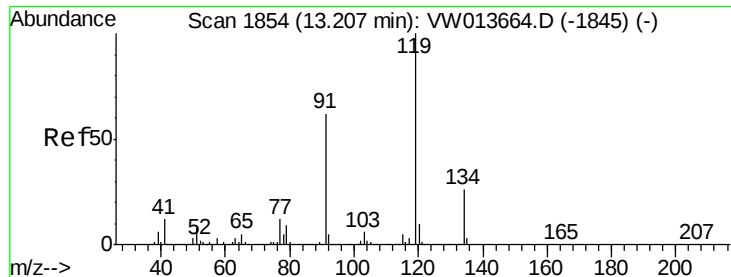
Tot Ion:105 Resp: 7081
 Ion Ratio Lower Upper
 105 100
 120 48.7 25.1 75.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 127.648 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW013780.D
 Acq: 28 Oct 2019 21:09

Tgt Ion: 75 Resp: 56248
 Ion Ratio Lower Upper
 75 100
 53 3.0 71.7 107.5#
 89 0.4 35.8 53.8#

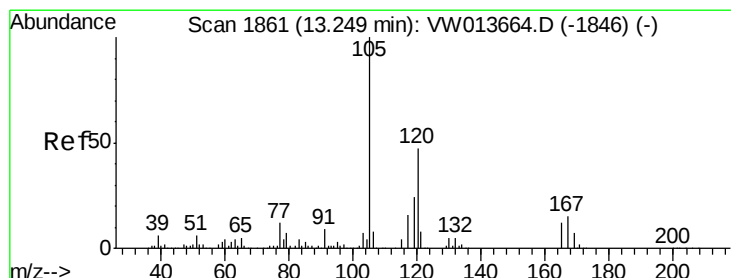
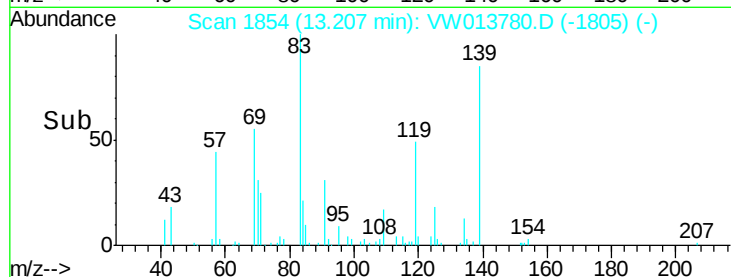
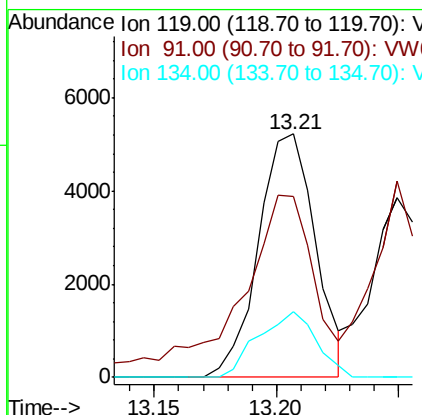
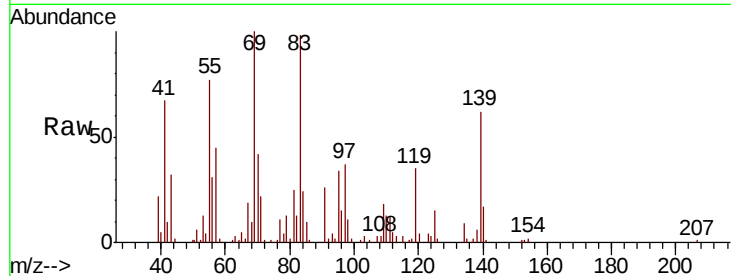




#83
tert-Butylbenzene
Concen: 1.365 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW013780.D
Acq: 28 Oct 2019 21:09

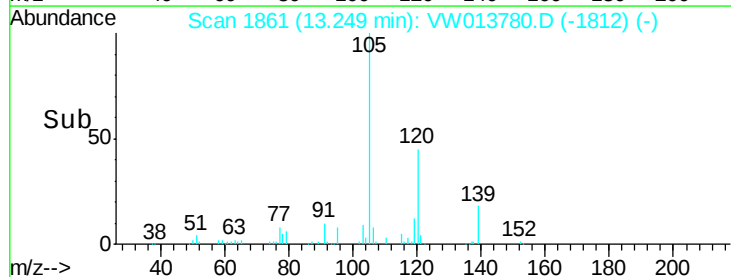
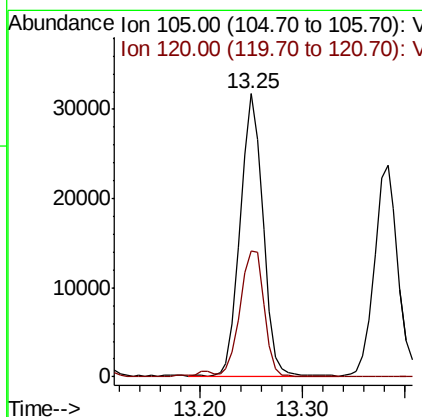
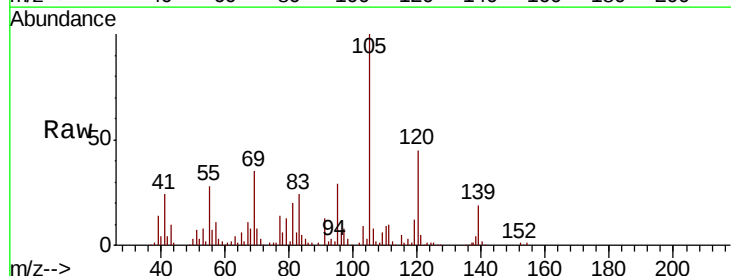
Instrument :
MSVOA_W
ClientSampleId :

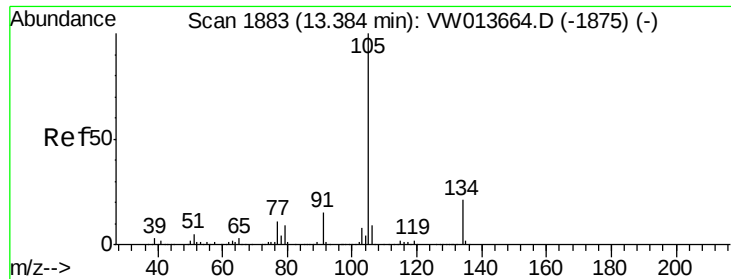
Tot Ion:119 Resp: 8516
Ion Ratio Lower Upper
119 100
91 81.5 30.4 91.3
134 27.3 13.6 40.8



#84
1,2,4-Trimethylbenzene
Concen: 7.164 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW013780.D
Acq: 28 Oct 2019 21:09

Tgt Ion:105 Resp: 49676
Ion Ratio Lower Upper
105 100
120 46.4 23.5 70.5





#85

sec-Butylbenzene

Concen: 4.452 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW013780.D

Acq: 28 Oct 2019 21:09

Instrument :

MSVOA_W

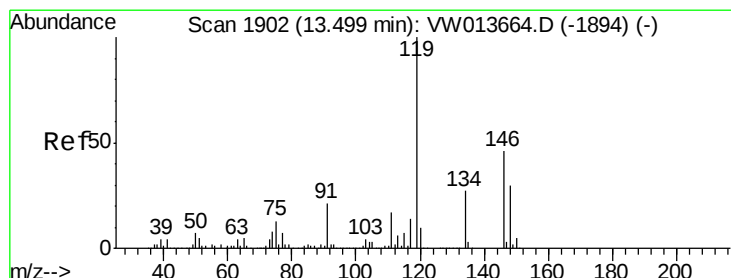
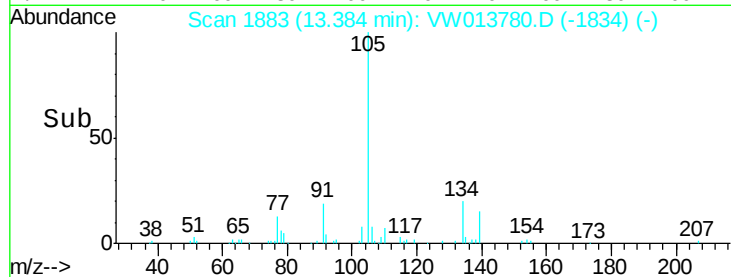
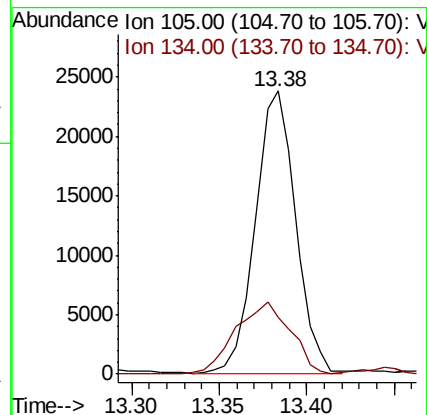
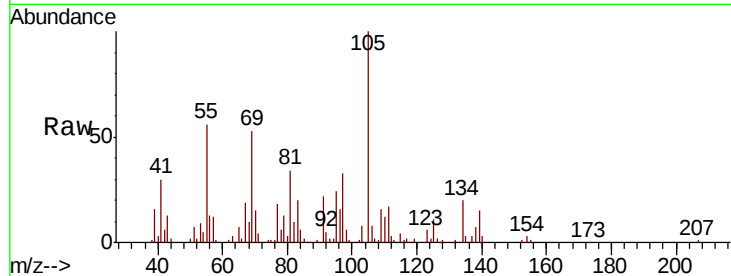
ClientSampleId :

Tot Ion:105 Resp: 37989

Ion Ratio Lower Upper

105 100

134 34.8 10.5 31.5#



#86

p-Isopropyltoluene

Concen: 3.945 ug/l

RT: 13.65 min Scan# 1927

Delta R.T. 0.15 min

Lab File: VW013780.D

Acq: 28 Oct 2019 21:09

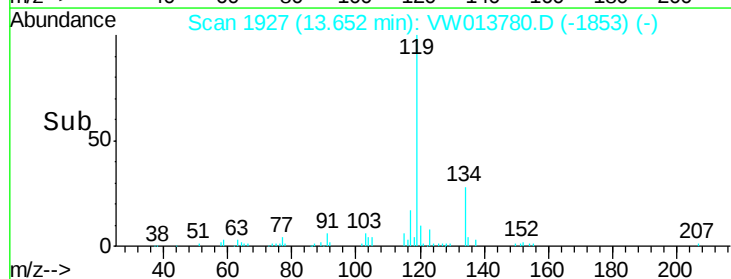
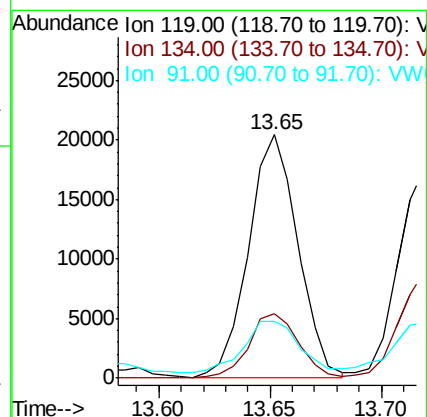
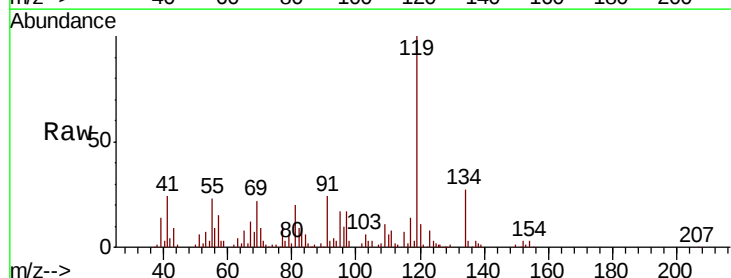
Tgt Ion:119 Resp: 31357

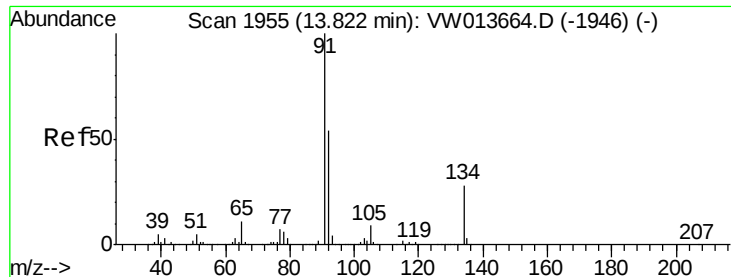
Ion Ratio Lower Upper

119 100

134 26.9 13.4 40.1

91 24.3 10.8 32.3





#89

n-Butylbenzene

Concen: 1.522 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW013780.D

Acq: 28 Oct 2019 21:09

Instrument :

MSVOA_W

ClientSampled :

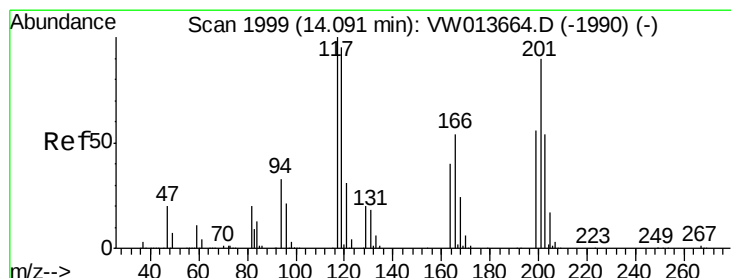
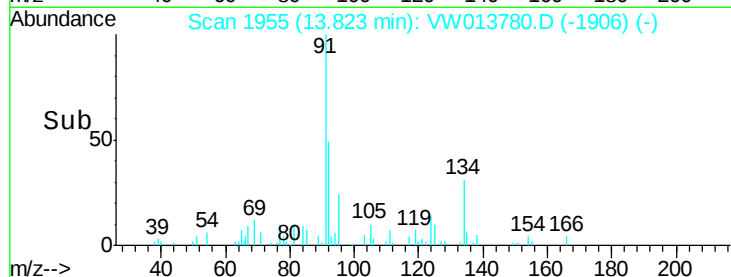
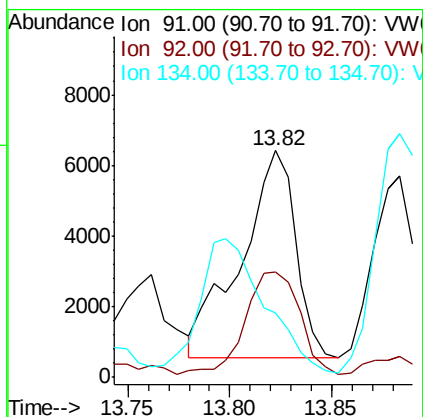
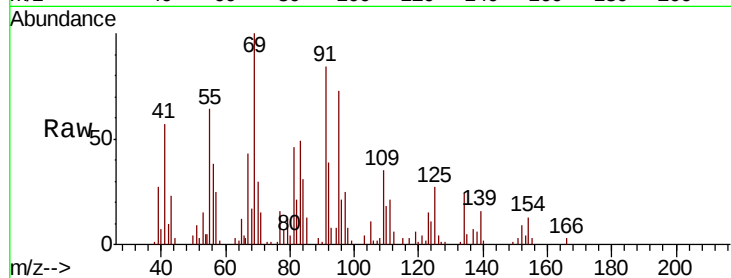
Tot Ion: 91 Resp: 10920

Ion Ratio Lower Upper

91 100

92 50.4 27.5 82.4

134 0.0 14.0 41.9#



#90

Hexachloroethane

Concen: 4.865 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.01 min

Lab File: VW013780.D

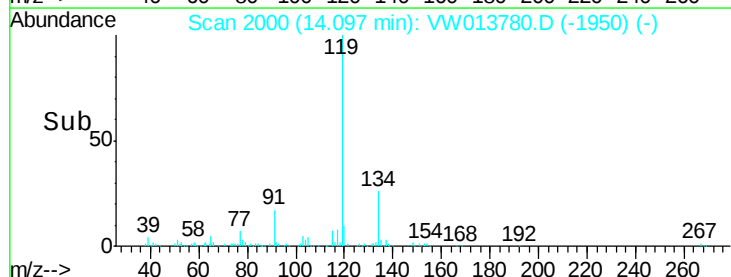
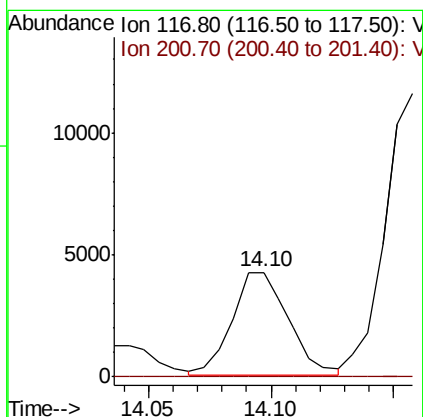
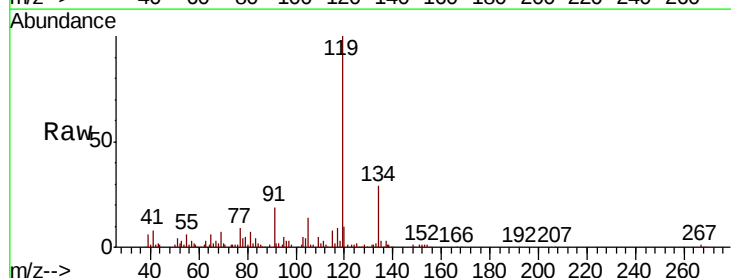
Acq: 28 Oct 2019 21:09

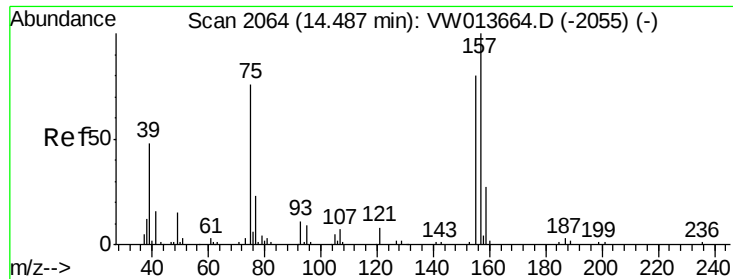
Tgt Ion: 117 Resp: 6721

Ion Ratio Lower Upper

117 100

201 0.0 46.1 138.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.208 ug/l

RT: 14.46 min Scan# 2059

Delta R.T. -0.03 min

Lab File: VW013780.D

Acq: 28 Oct 2019 21:09

Instrument :

MSVOA_W

ClientSampleId :

Tot Ion: 75 Resp: 240

Ion Ratio Lower Upper

75 100

155 0.0 51.9 155.7#

157 0.0 64.8 194.3#

