

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW081420\
 Data File : VW016195.D
 Acq On : 14 Aug 2020 16:33
 Operator : SY/VA
 Sample : L3662-09
 Misc : 5.53G/5ML/MSVOA_W/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 N48765

Quant Time: Aug 17 08:12:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W081420S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 17 08:01:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	210073	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	378731	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	277921	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	80241	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	114471	55.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.76%	
35) Dibromofluoromethane	7.88	113	112722	48.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.48%	
50) Toluene-d8	10.32	98	414774	45.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.70%	
62) 4-Bromofluorobenzene	12.62	95	136423	42.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.38%	

Target Compounds

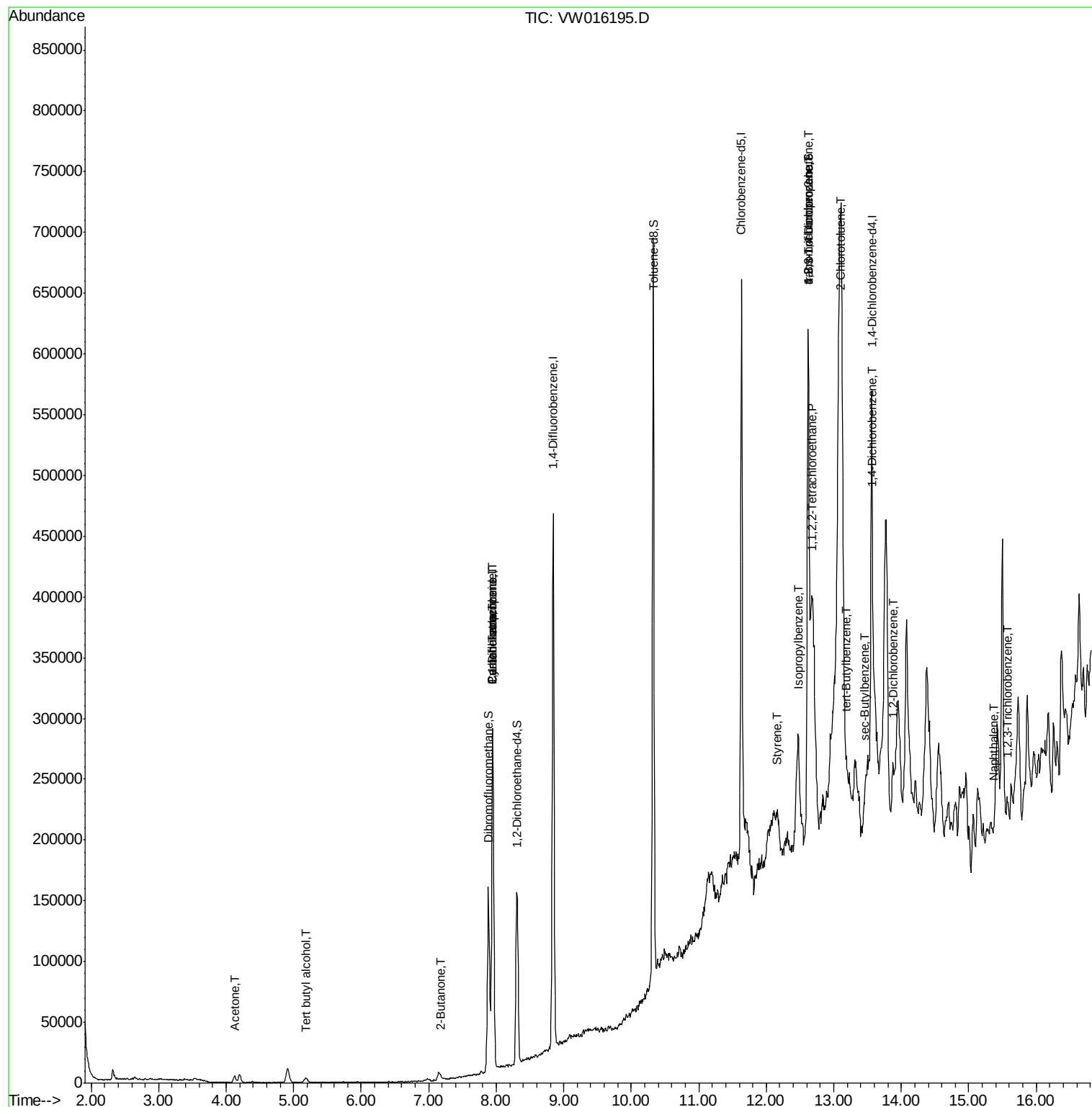
						Qvalue
11) Tert butyl alcohol	5.18	59	7232	66.330	ug/l	100
16) Acetone	4.12	43	9764	24.879	ug/l	90
20) Methylene Chloride	4.91	84	9529	Below Cal		92
25) 2-Butanone	7.18	43	2045	3.888	ug/l	95
31) Cyclohexane	7.95	56	4778	1.278	ug/l #	1
36) 1,1-Dichloropropene	7.95	75	16025	4.295	ug/l #	55
38) Carbon Tetrachloride	7.95	117	22778	6.118	ug/l #	16
70) Styrene	12.16	104	15450	2.547	ug/l #	40
73) Isopropylbenzene	12.47	105	46083	7.537	ug/l #	57
75) 1,1,2,2-Tetrachloroethane	12.67	83	77466	75.712	ug/l #	31
76) 1,2,3-Trichloropropane	12.62	75	52891	71.672	ug/l #	1
79) 2-Chlorotoluene	13.11	91	79723	18.909	ug/l #	42
81) trans-1,4-Dichloro-2-buten	12.62	75	52891	171.916	ug/l #	12
83) tert-Butylbenzene	13.19	119	9746	2.266	ug/l #	31
85) sec-Butylbenzene	13.46	105	6320	1.011	ug/l	81
88) 1,4-Dichlorobenzene	13.58	146	4928	1.848	ug/l #	1
91) 1,2-Dichlorobenzene	13.87	146	3724	1.577	ug/l #	61
95) Naphthalene	15.36	128	4457	4.979	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.58	180	2429	2.009	ug/l #	12

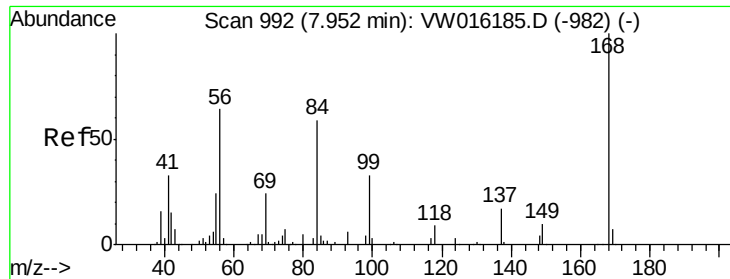
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW016195.D

Acq: 14 Aug 2020 16:33

Instrument :

MSVOA_W

ClientSampleId :

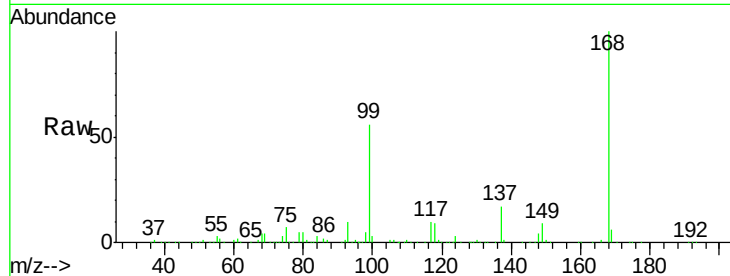
N48765

Tgt Ion:168 Resp: 210073

Ion Ratio Lower Upper

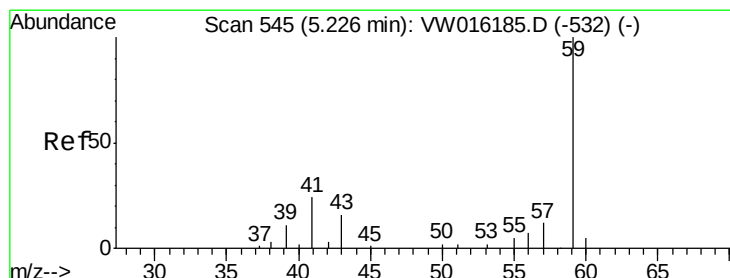
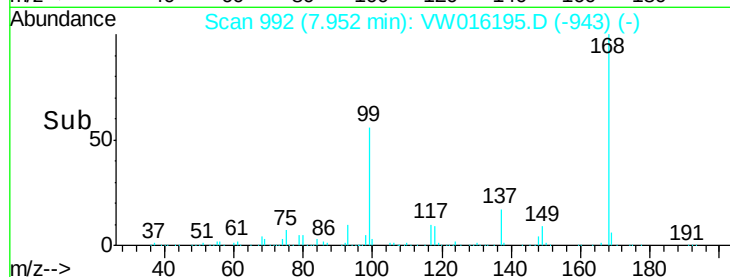
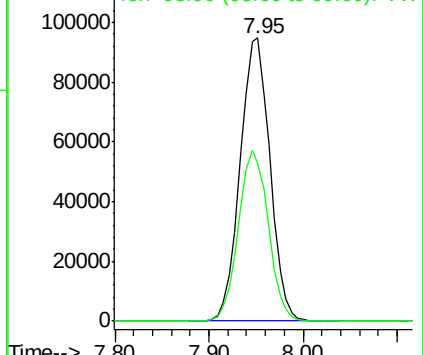
168 100

99 55.9 48.3 72.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#11

Tert butyl alcohol

Concen: 66.330 ug/l

RT: 5.18 min Scan# 537

Delta R.T. -0.05 min

Lab File: VW016195.D

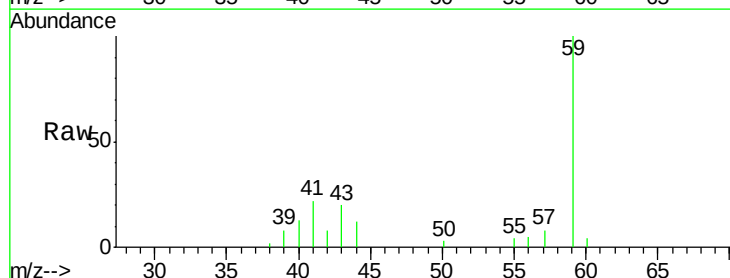
Acq: 14 Aug 2020 16:33

Tgt Ion: 59 Resp: 7232

Ion Ratio Lower Upper

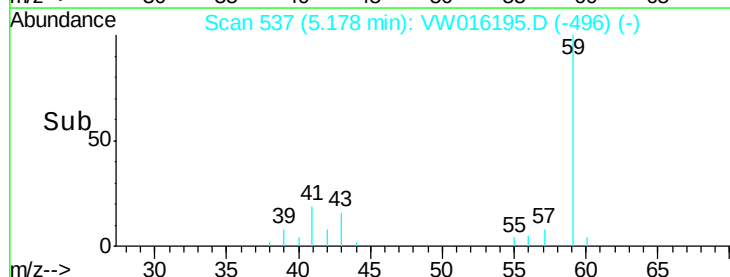
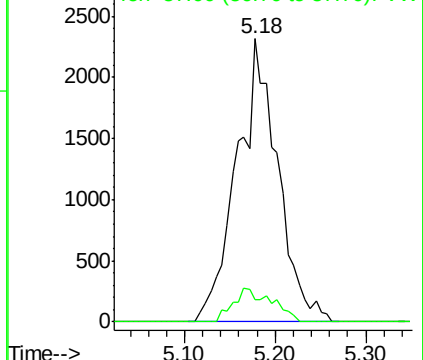
59 100

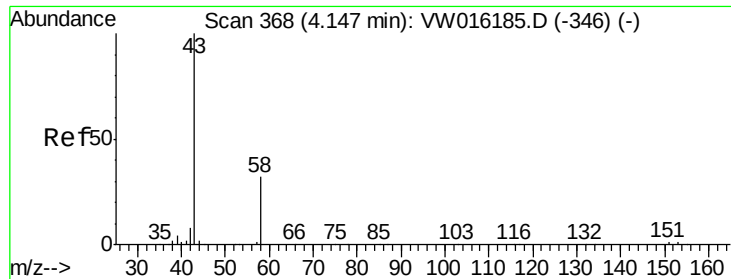
57 11.2 9.0 13.6



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#16

Acetone

Concen: 24.879 ug/l

RT: 4.12 min Scan# 364

Delta R.T. -0.02 min

Lab File: VW016195.D

Acq: 14 Aug 2020 16:33

Instrument :

MSVOA_W

ClientSampleId :

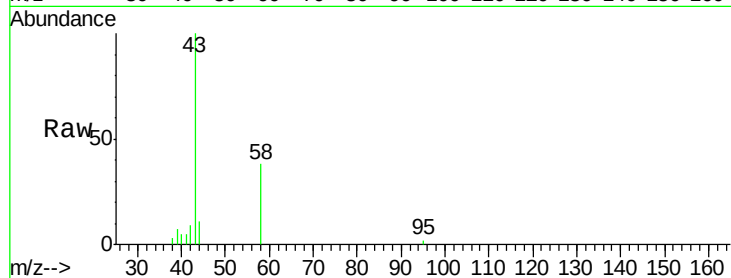
N48765

Tgt Ion: 43 Resp: 9764

Ion Ratio Lower Upper

43 100

58 37.8 25.8 38.6



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

4.12

4000

3000

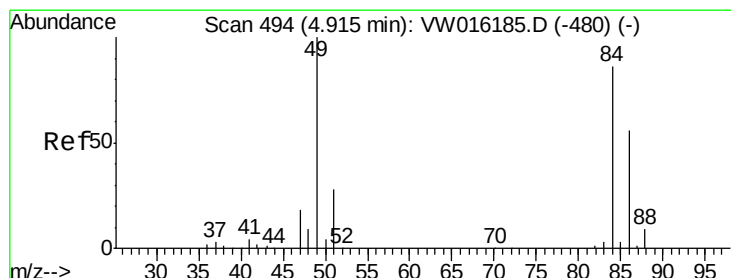
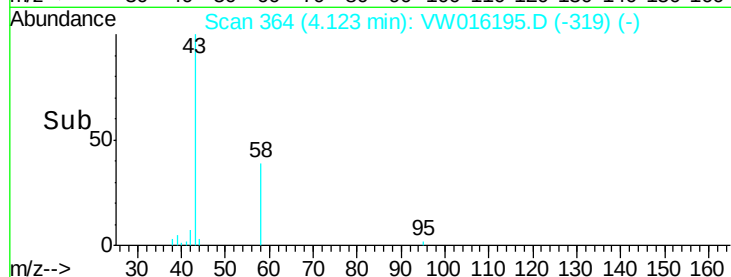
2000

1000

0

Time-->

4.00 4.10 4.20



#20

Methylene Chloride

Concen: Below Cal

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW016195.D

Acq: 14 Aug 2020 16:33

Tgt Ion: 84 Resp: 9529

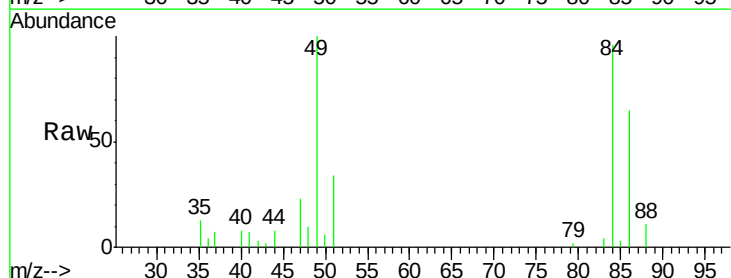
Ion Ratio Lower Upper

84 100

49 104.2 93.4 140.2

51 35.6 26.6 40.0

86 67.8 52.2 78.2



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

4.91

4000

3000

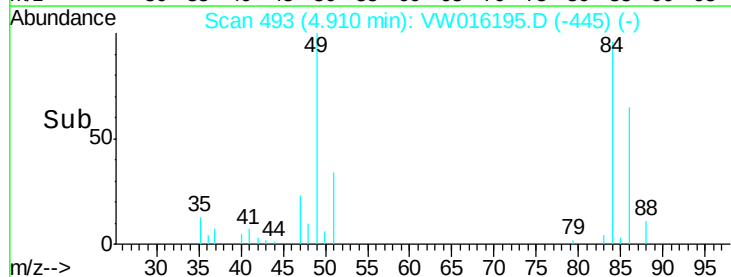
2000

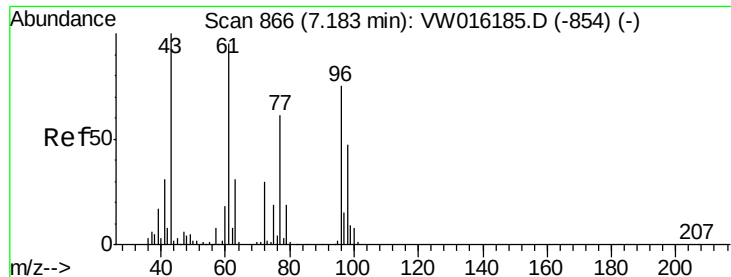
1000

0

Time-->

4.80 4.90 5.00

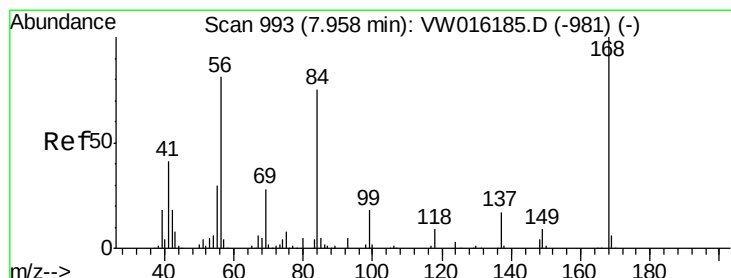
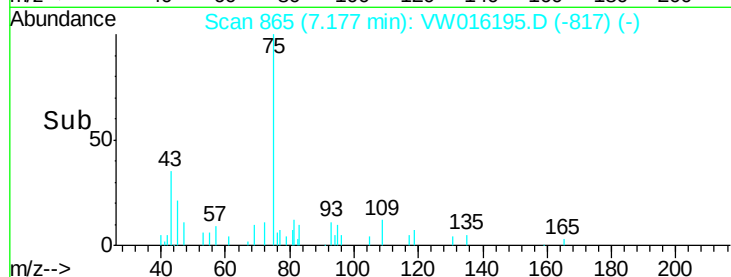
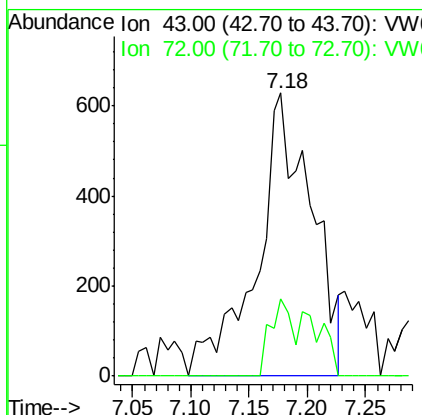
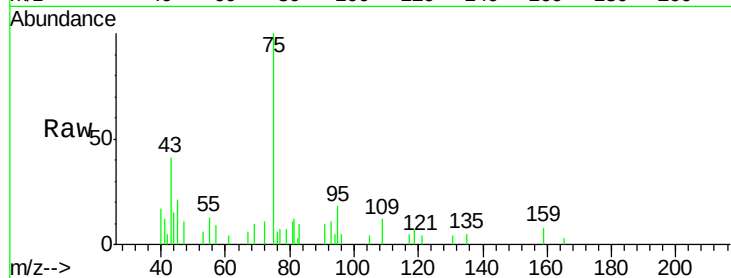




#25
2-Butanone
Concen: 3.888 ug/l
RT: 7.18 min Scan# 865
Delta R.T. -0.01 min
Lab File: VW016195.D
Acq: 14 Aug 2020 16:33

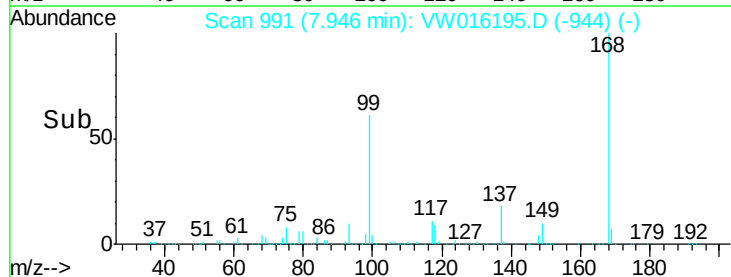
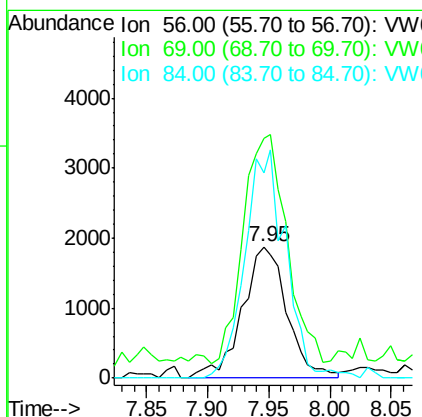
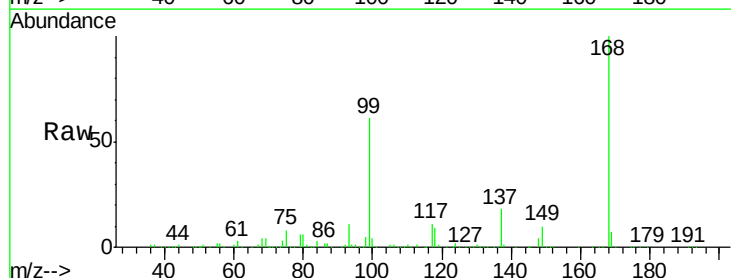
Instrument :
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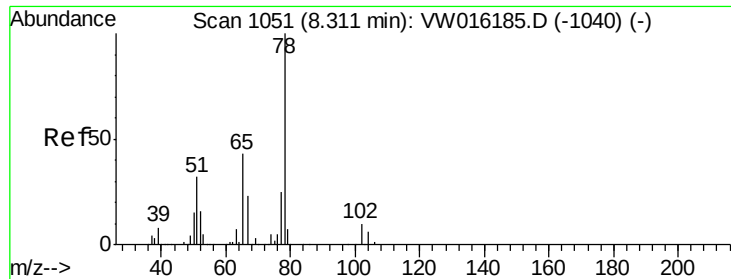
Tgt Ion: 43 Resp: 2045
Ion Ratio Lower Upper
43 100
72 27.2 24.2 36.2



#31
Cyclohexane
Concen: 1.278 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW016195.D
Acq: 14 Aug 2020 16:33

Tgt Ion: 56 Resp: 4778
Ion Ratio Lower Upper
56 100
69 169.0 27.3 40.9#
84 156.3 73.5 110.3#

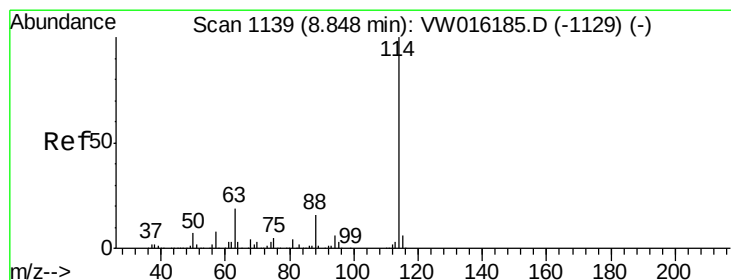
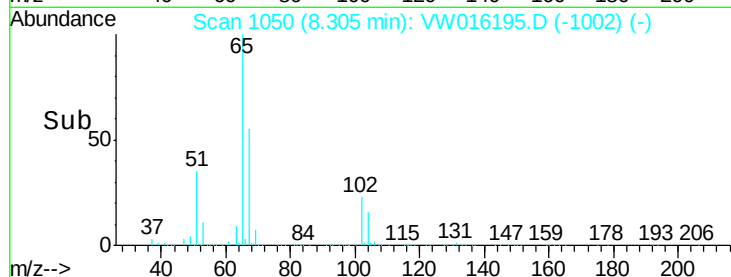
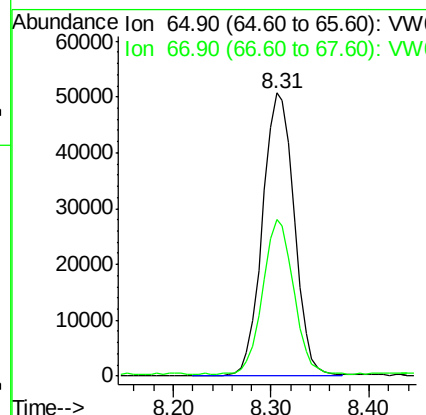
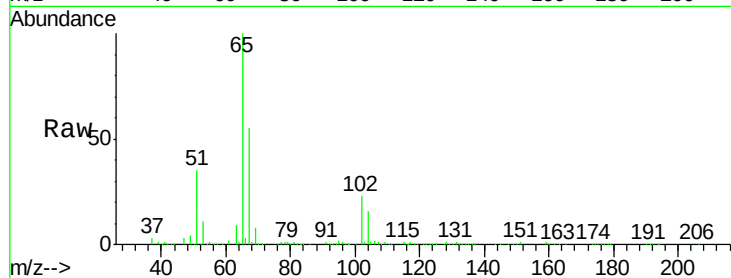




#33
 1,2-Dichloroethane-d4
 Concen: 55.877 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.01 min
 Lab File: VW016195.D
 Acq: 14 Aug 2020 16:33

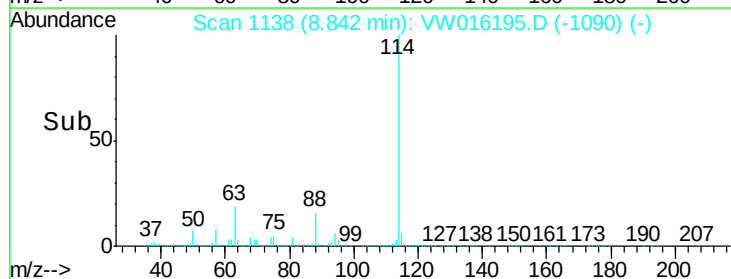
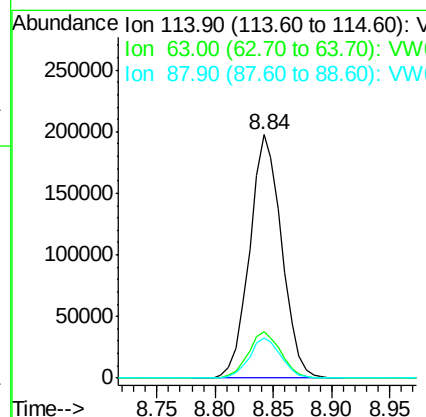
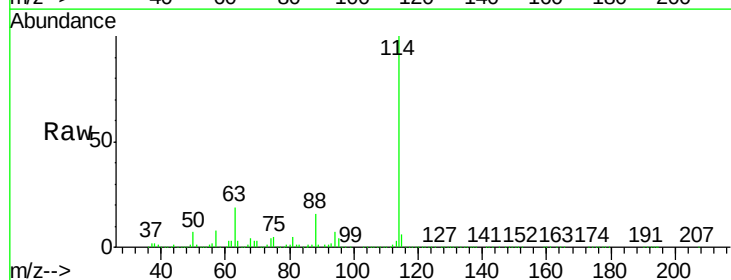
Instrument :
 MSVOA_W
 ClientSampleId :
 N48765

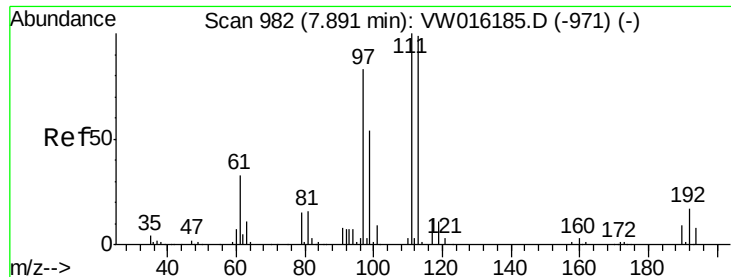
Tgt Ion: 65 Resp: 114471
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 105.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.01 min
 Lab File: VW016195.D
 Acq: 14 Aug 2020 16:33

Tgt Ion: 114 Resp: 378731
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 38.4
 88 16.5 0.0 32.8

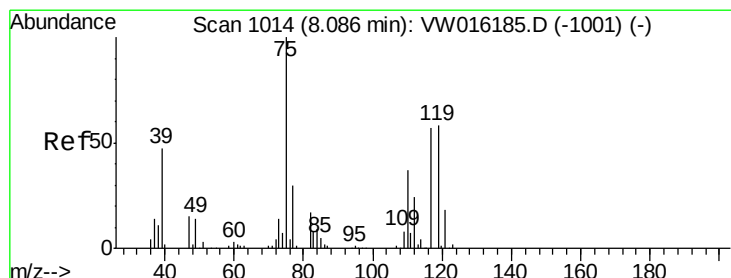
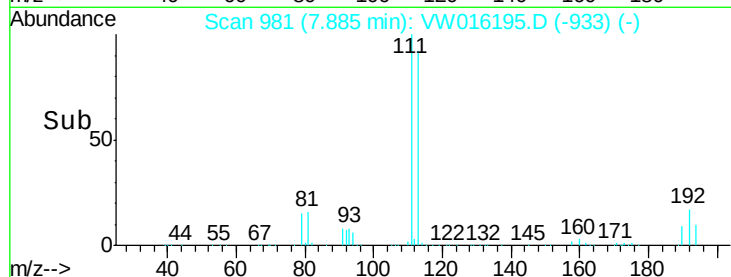
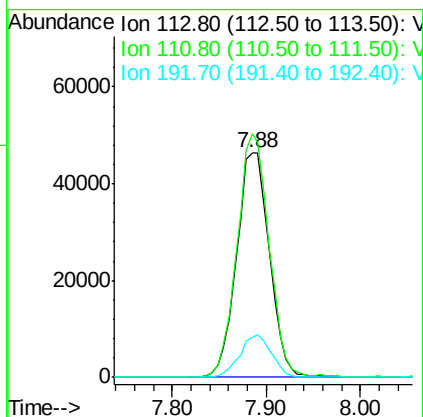
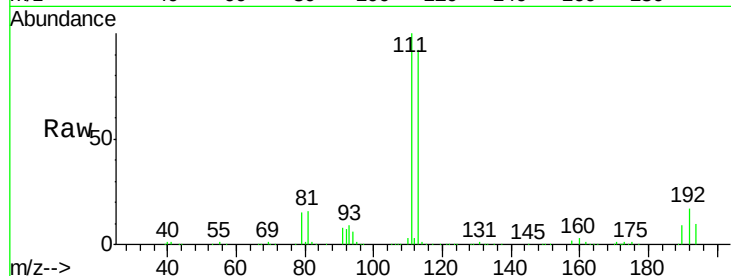




#35
 Dibromofluoromethane
 Concen: 48.238 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.01 min
 Lab File: VW016195.D
 Acq: 14 Aug 2020 16:33

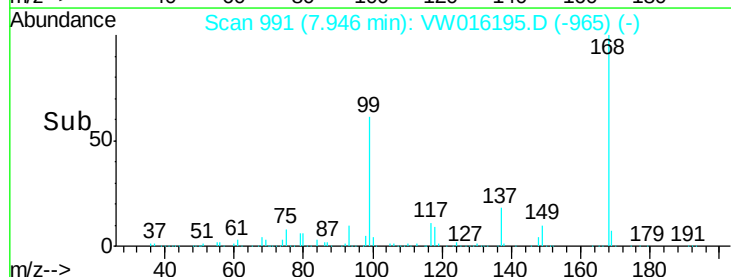
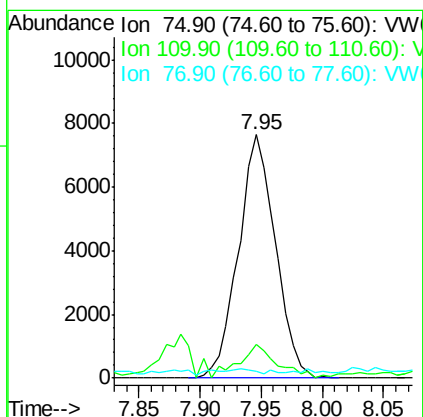
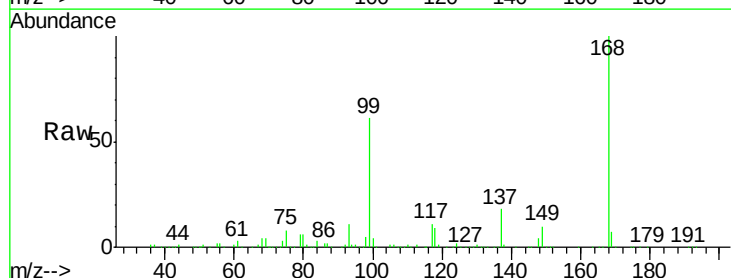
Instrument :
 MSVOA_W
 ClientSampleId :
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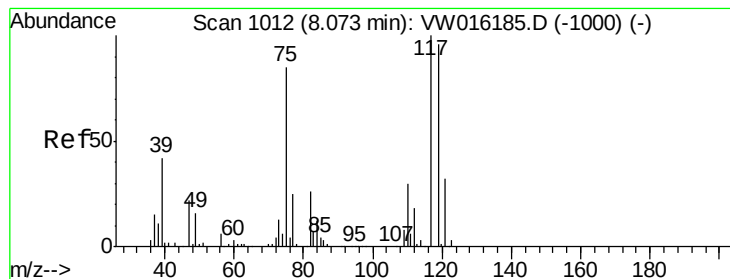
Tgt Ion: 113 Resp: 112722
 Ion Ratio Lower Upper
 113 100
 111 105.2 83.5 125.3
 192 18.1 14.3 21.5



#36
 1,1-Dichloropropene
 Concen: 4.295 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.14 min
 Lab File: VW016195.D
 Acq: 14 Aug 2020 16:33

Tgt Ion: 75 Resp: 16025
 Ion Ratio Lower Upper
 75 100
 110 14.2 18.1 54.3#
 77 0.8 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.118 ug/l

RT: 7.95 min Scan# 991

Delta R.T. -0.13 min

Lab File: VW016195.D

Acq: 14 Aug 2020 16:33

Instrument :

MSVOA_W

ClientSampleId :

N48765

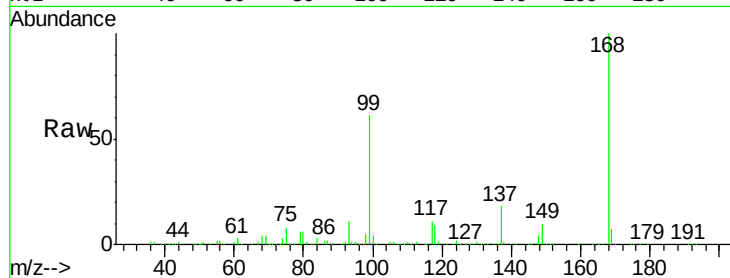
Tgt Ion:117 Resp: 22778

Ion Ratio Lower Upper

117 100

119 5.4 76.6 115.0#

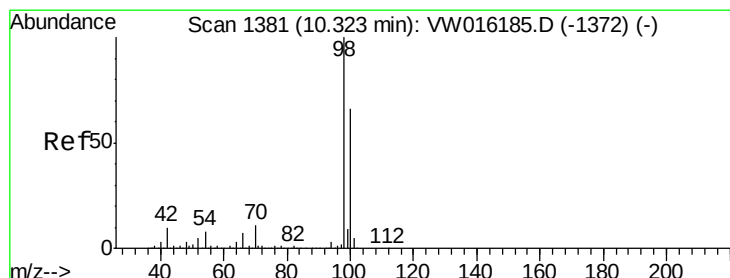
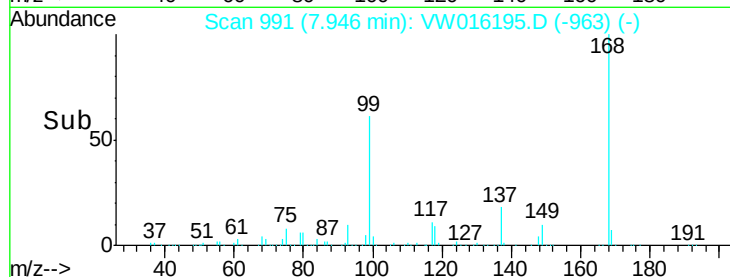
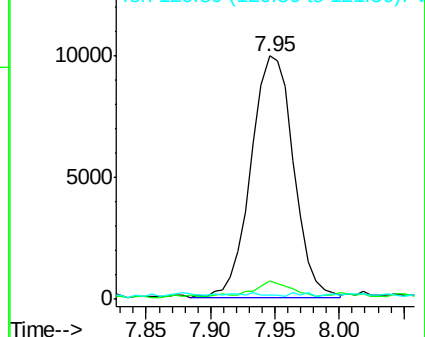
121 0.0 25.4 38.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 45.855 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW016195.D

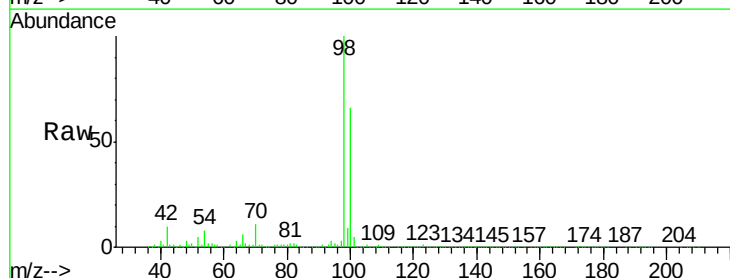
Acq: 14 Aug 2020 16:33

Tgt Ion: 98 Resp: 414774

Ion Ratio Lower Upper

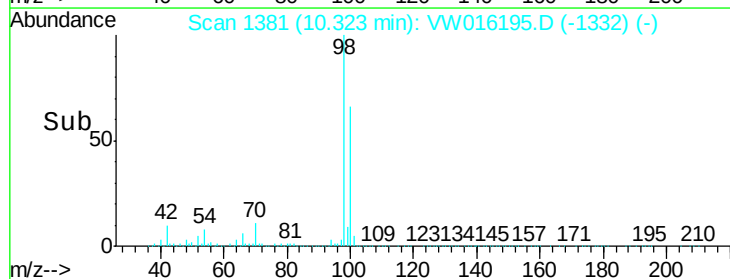
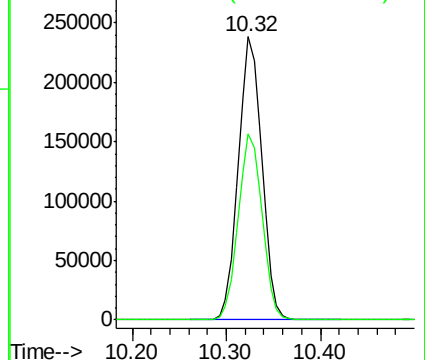
98 100

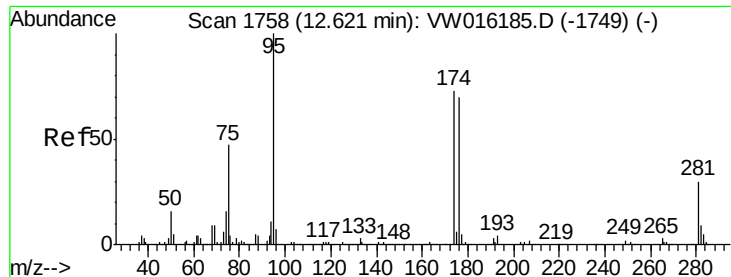
100 66.9 53.5 80.3



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW

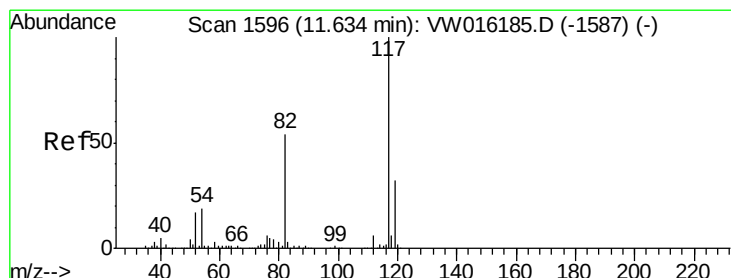
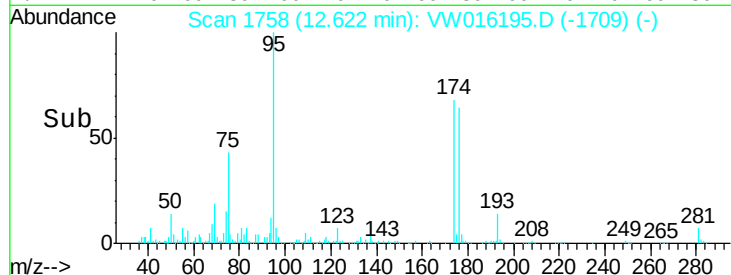
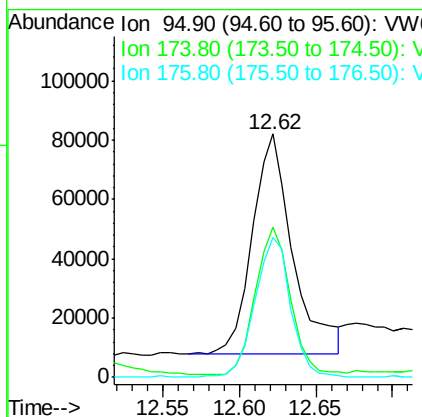
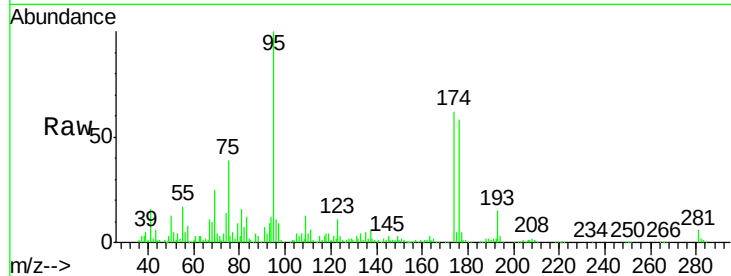




#62
4-Bromofluorobenzene
Concen: 42.193 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW016195.D
Acq: 14 Aug 2020 16:33

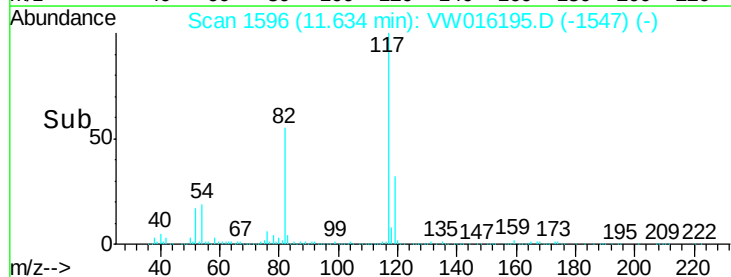
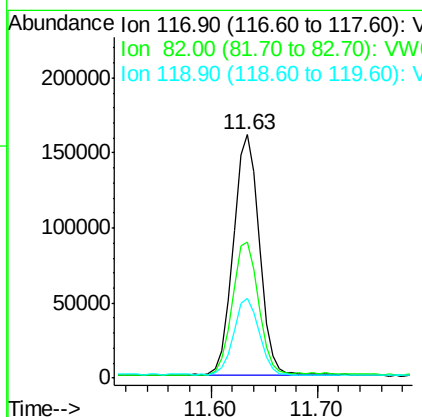
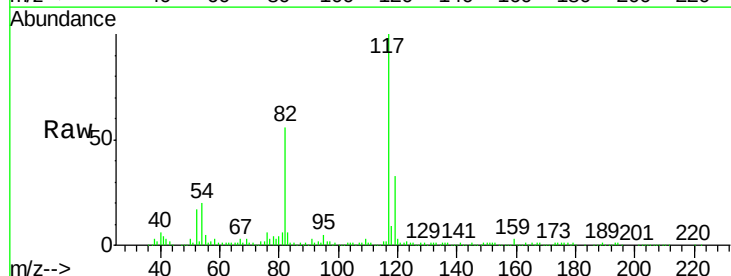
Instrument :
MSVOA_W
ClientSampleId :
N48765

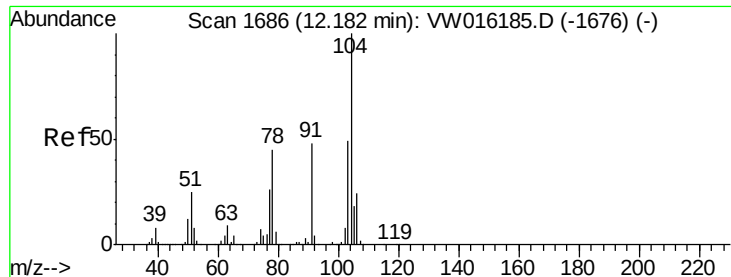
Tgt Ion: 95 Resp: 136423
Ion Ratio Lower Upper
95 100
174 57.3 0.0 145.6
176 55.5 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW016195.D
Acq: 14 Aug 2020 16:33

Tgt Ion: 117 Resp: 277921
Ion Ratio Lower Upper
117 100
82 55.4 43.6 65.4
119 31.8 25.4 38.0





#70

Styrene

Concen: 2.547 ug/l

RT: 12.16 min Scan# 1683

Delta R.T. -0.02 min

Lab File: VW016195.D

Acq: 14 Aug 2020 16:33

Instrument :

MSVOA_W

ClientSampleId :

N48765

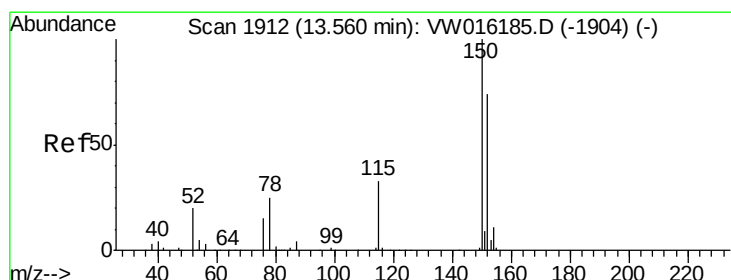
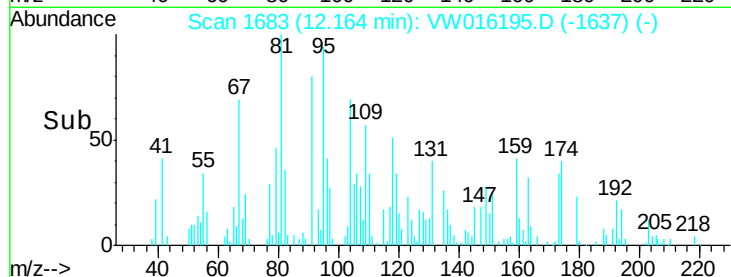
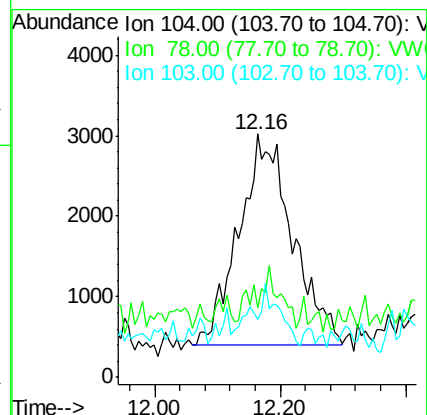
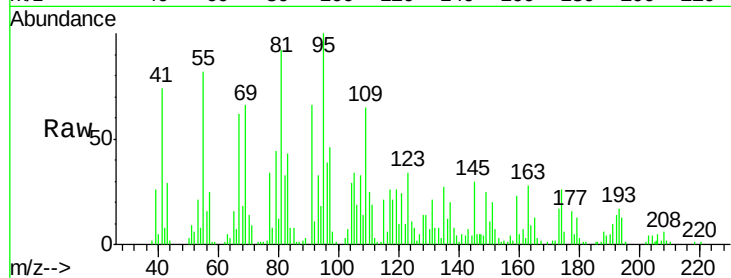
Tgt Ion:104 Resp: 15450

Ion Ratio Lower Upper

104 100

78 9.1 39.4 59.2#

103 9.4 42.9 64.3#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW016195.D

Acq: 14 Aug 2020 16:33

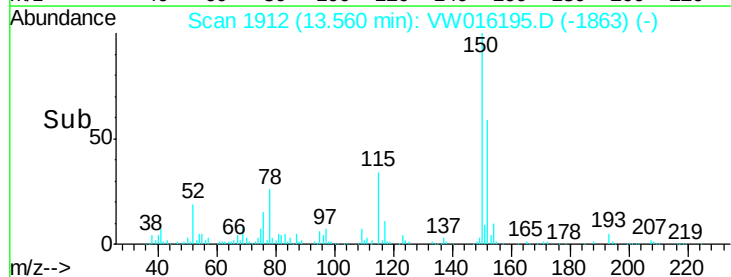
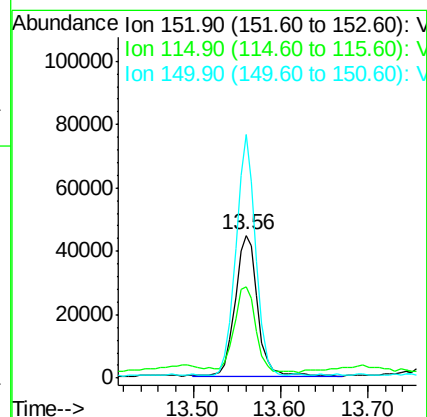
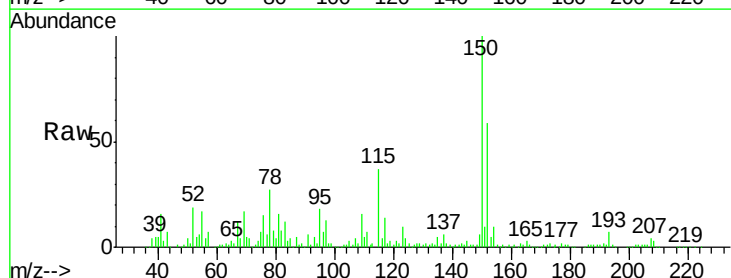
Tgt Ion:152 Resp: 80241

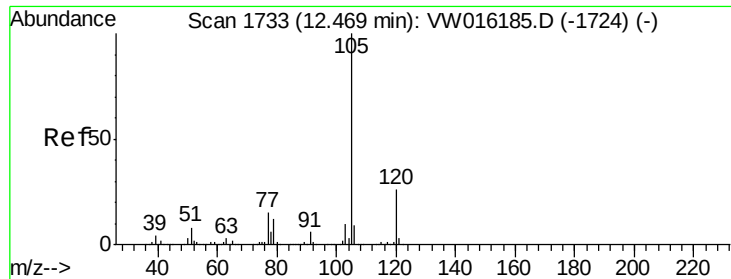
Ion Ratio Lower Upper

152 100

115 56.8 30.9 92.5

150 148.5 0.0 337.8





#73

Isopropylbenzene

Concen: 7.537 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. 0.00 min

Lab File: VW016195.D

Acq: 14 Aug 2020 16:33

Instrument :

MSVOA_W

ClientSampleId :

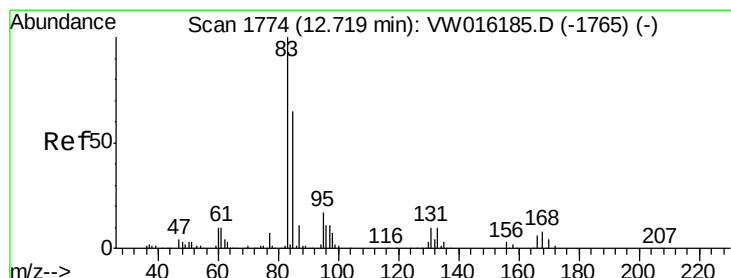
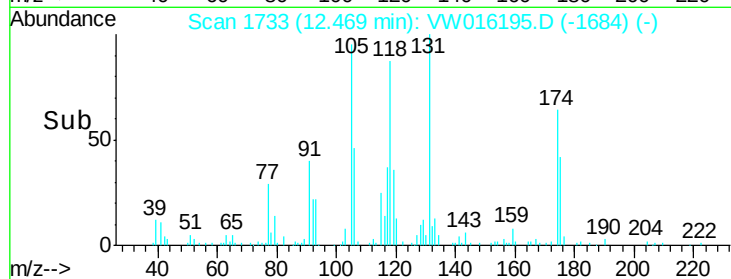
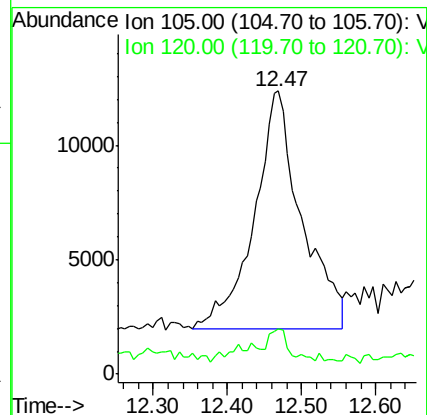
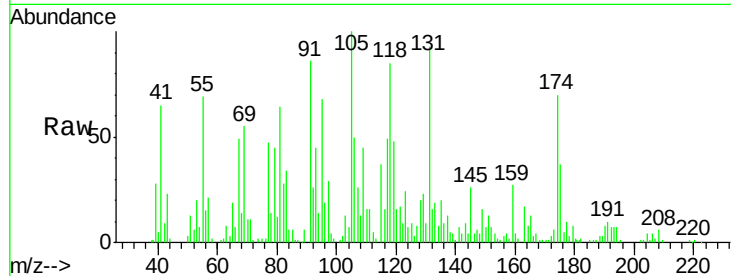
N48765

Tgt Ion:105 Resp: 46083

Ion Ratio Lower Upper

105 100

120 4.2 13.2 39.6#



#75

1,1,2,2-Tetrachloroethane

Concen: 75.712 ug/l

RT: 12.67 min Scan# 1766

Delta R.T. -0.05 min

Lab File: VW016195.D

Acq: 14 Aug 2020 16:33

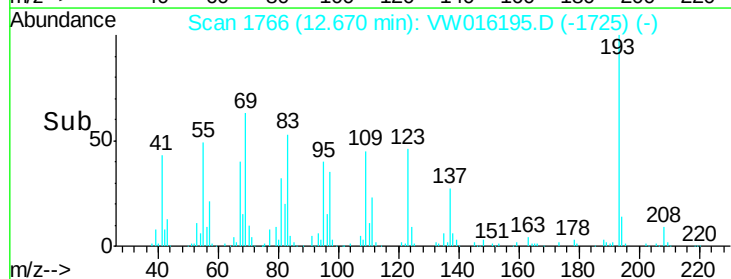
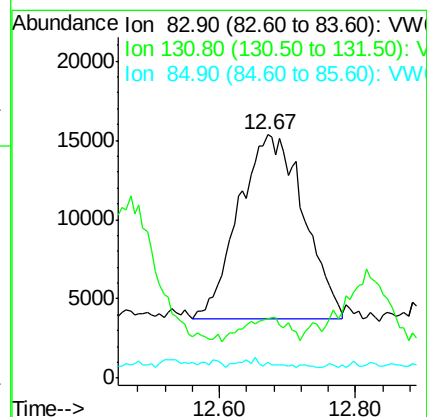
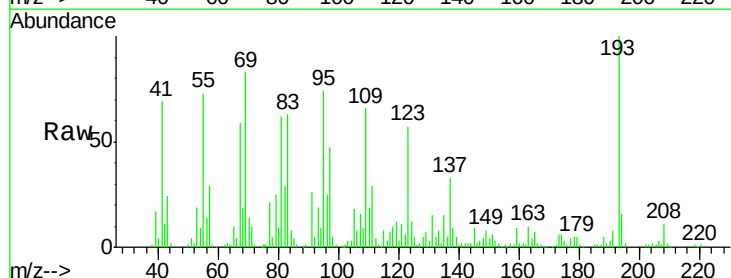
Tgt Ion: 83 Resp: 77466

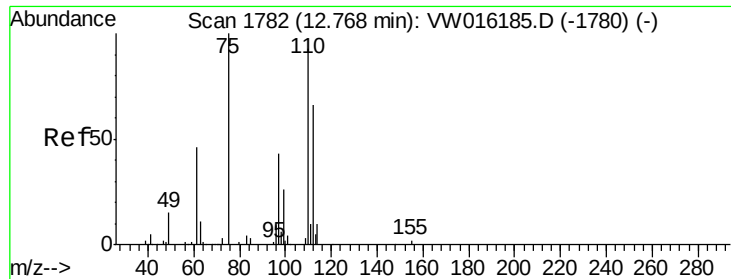
Ion Ratio Lower Upper

83 100

131 9.7 5.6 16.8

85 0.0 31.3 93.9#





#76

1,2,3-Trichloropropane

Concen: 71.672 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW016195.D

Acq: 14 Aug 2020 16:33

Instrument :

MSVOA_W

ClientSampleId :

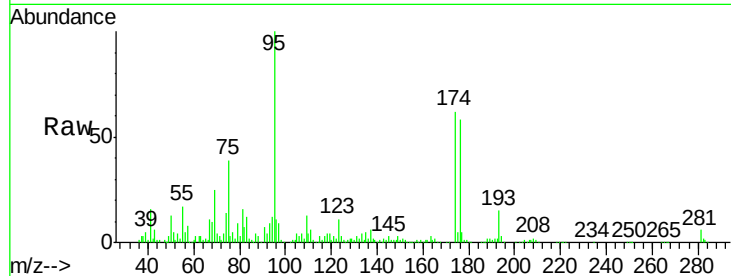
N48765

Tgt Ion: 75 Resp: 52891

Ion Ratio Lower Upper

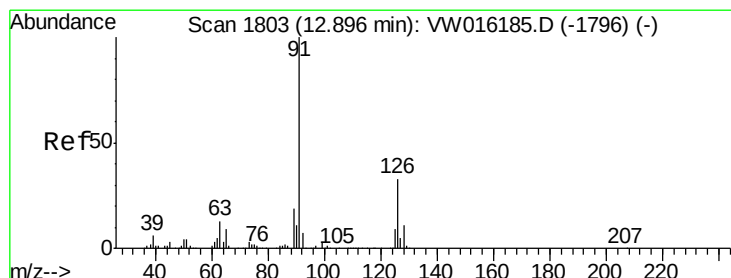
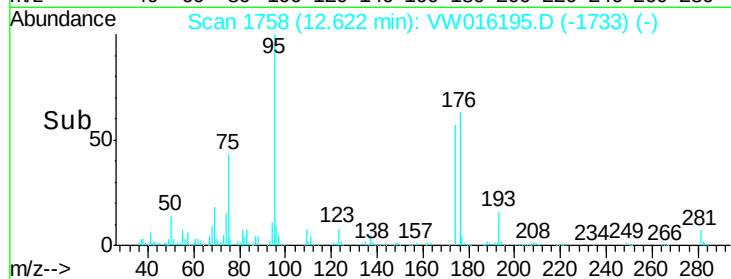
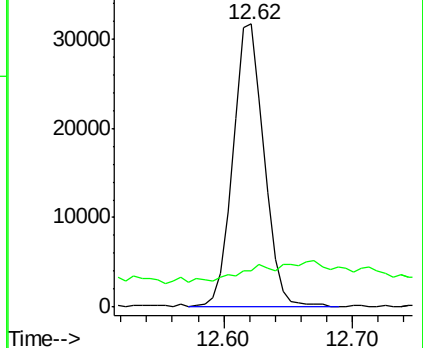
75 100

77 5.9 173.6 520.6#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#79

2-Chlorotoluene

Concen: 18.909 ug/l

RT: 13.11 min Scan# 1838

Delta R.T. 0.21 min

Lab File: VW016195.D

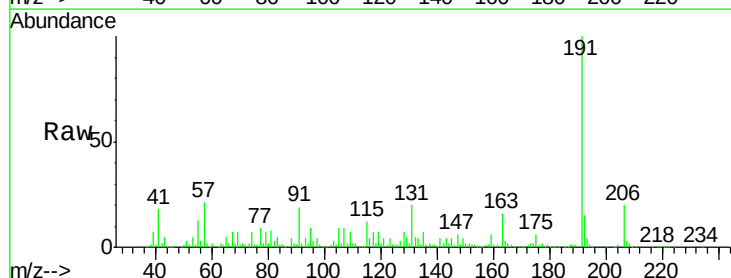
Acq: 14 Aug 2020 16:33

Tgt Ion: 91 Resp: 79723

Ion Ratio Lower Upper

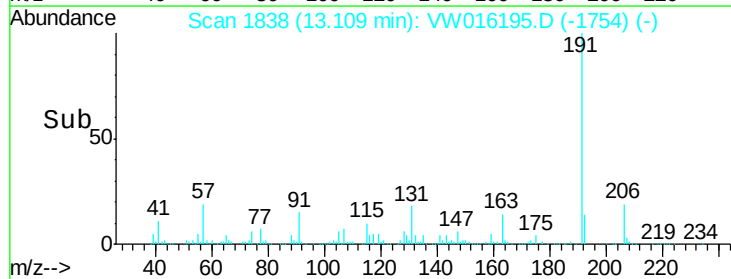
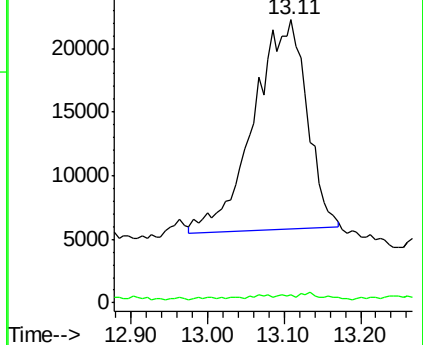
91 100

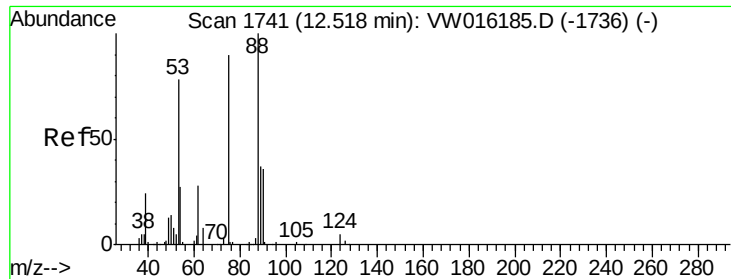
126 0.0 16.4 49.2#



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 171.916 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.10 min

Lab File: VW016195.D

Acq: 14 Aug 2020 16:33

Instrument :

MSVOA_W

ClientSampleId :

N48765

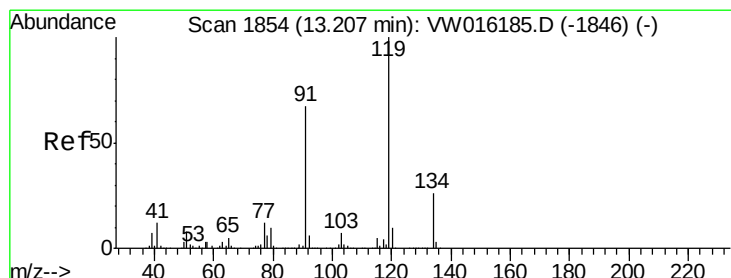
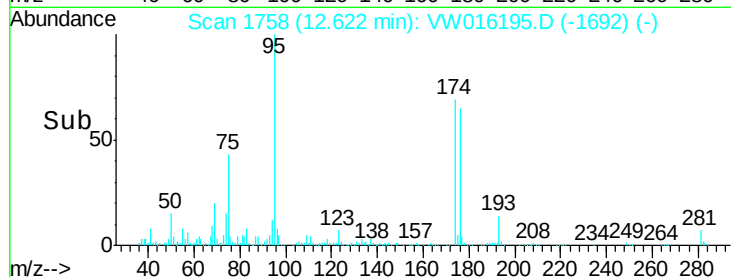
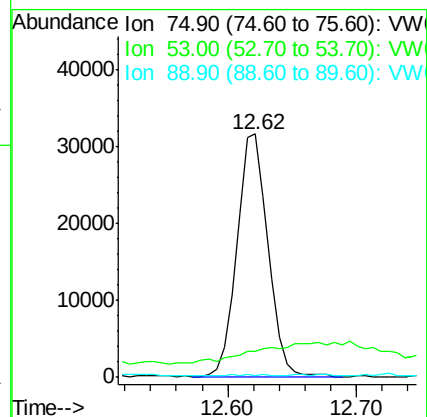
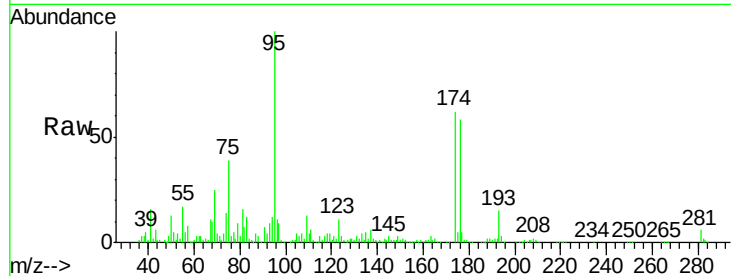
Tgt Ion: 75 Resp: 52891

Ion Ratio Lower Upper

75 100

53 0.0 74.6 111.8#

89 0.2 37.2 55.8#



#83

tert-Butylbenzene

Concen: 2.266 ug/l

RT: 13.19 min Scan# 1852

Delta R.T. -0.01 min

Lab File: VW016195.D

Acq: 14 Aug 2020 16:33

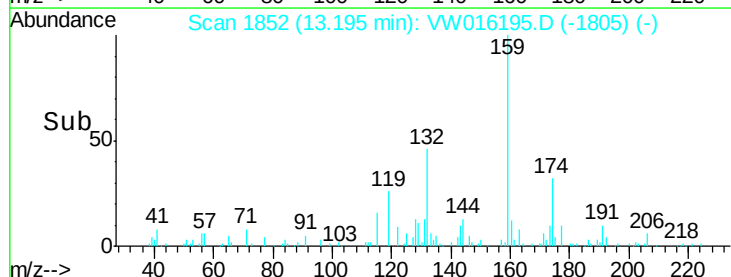
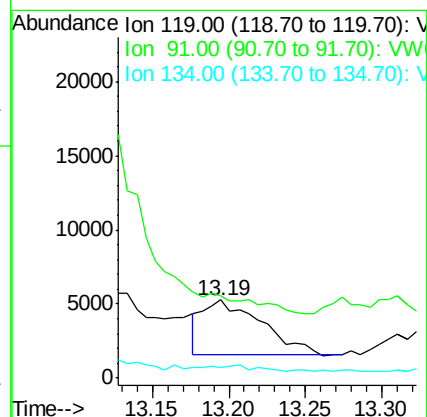
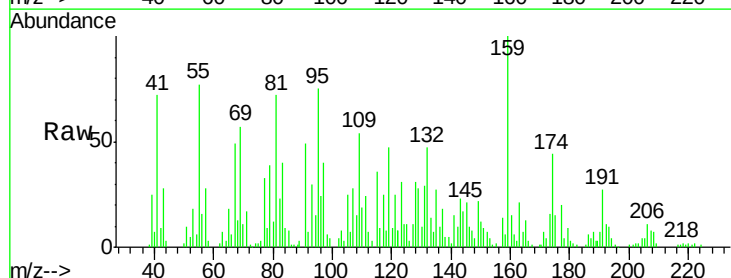
Tgt Ion: 119 Resp: 9746

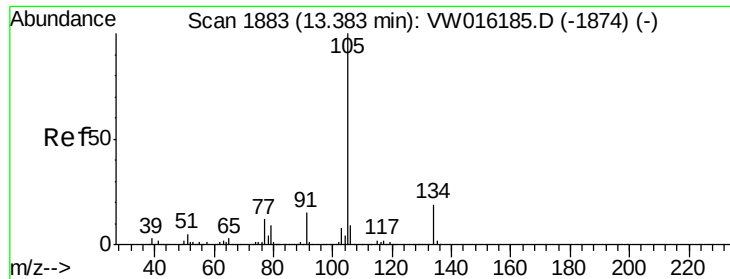
Ion Ratio Lower Upper

119 100

91 0.0 33.3 99.9#

134 9.8 13.5 40.5#

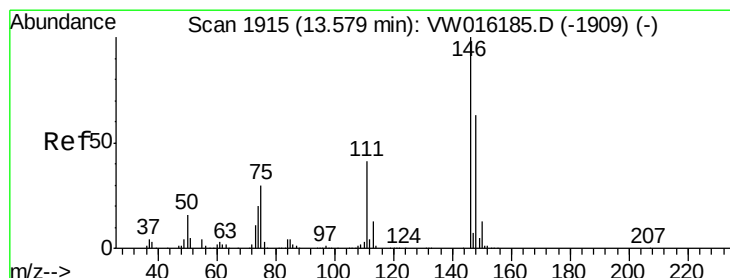
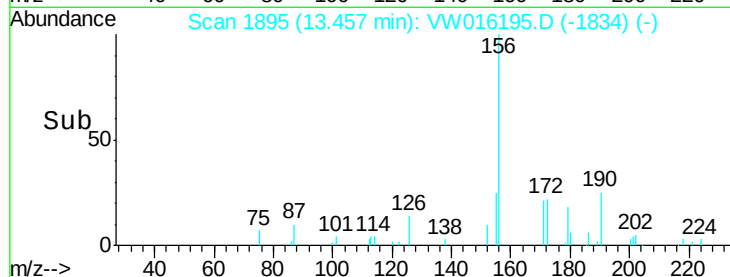
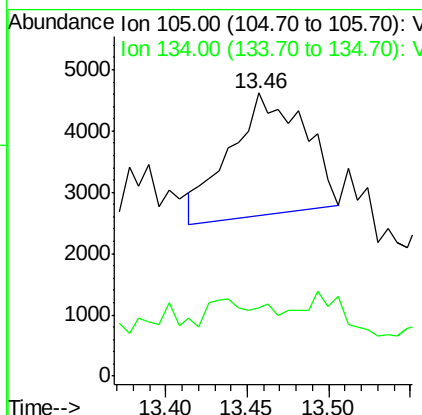
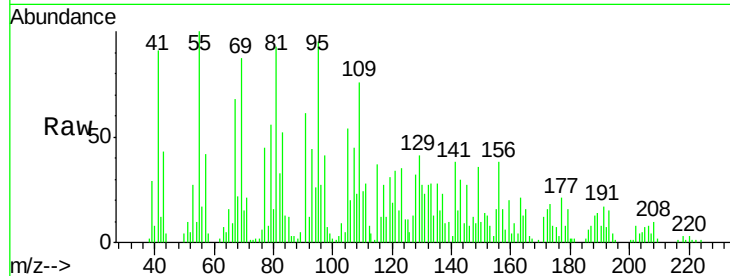




#85
 sec-Butylbenzene
 Concen: 1.011 ug/l
 RT: 13.46 min Scan# 1895
 Delta R.T. 0.07 min
 Lab File: VW016195.D
 Acq: 14 Aug 2020 16:33

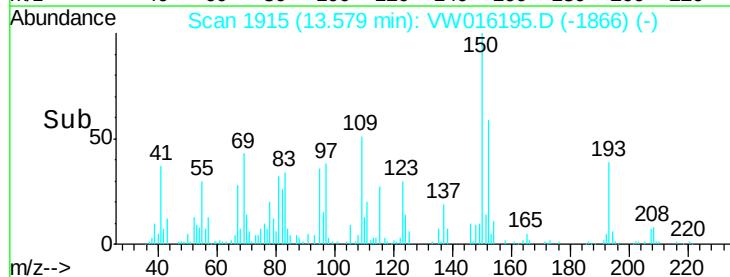
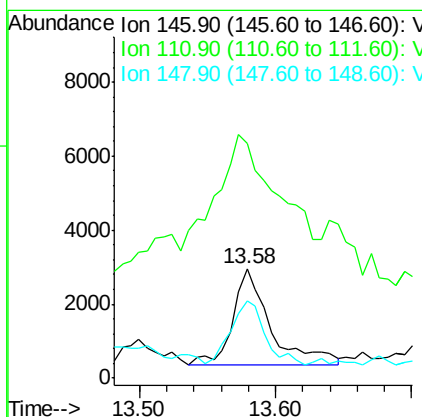
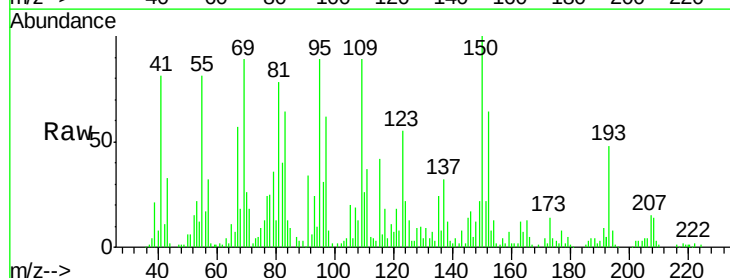
Instrument :
 MSVOA_W
 ClientSampled :
 N48765

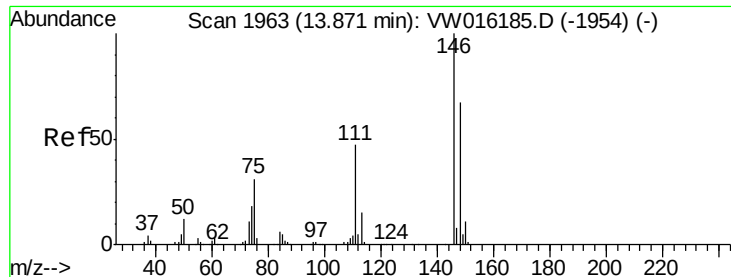
Tgt Ion:105 Resp: 6320
 Ion Ratio Lower Upper
 105 100
 134 11.1 9.8 29.4



#88
 1,4-Dichlorobenzene
 Concen: 1.848 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW016195.D
 Acq: 14 Aug 2020 16:33

Tgt Ion:146 Resp: 4928
 Ion Ratio Lower Upper
 146 100
 111 202.2 20.8 62.2#
 148 61.0 32.1 96.3

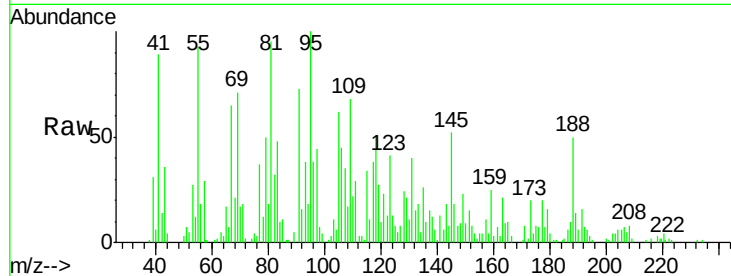




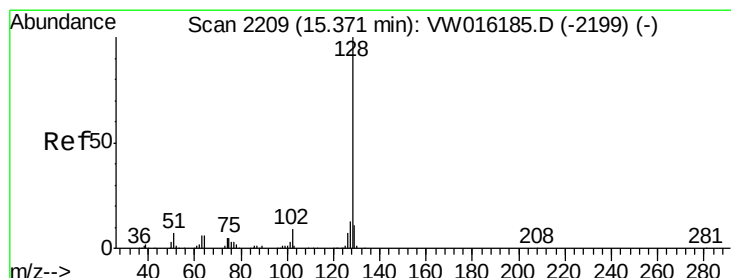
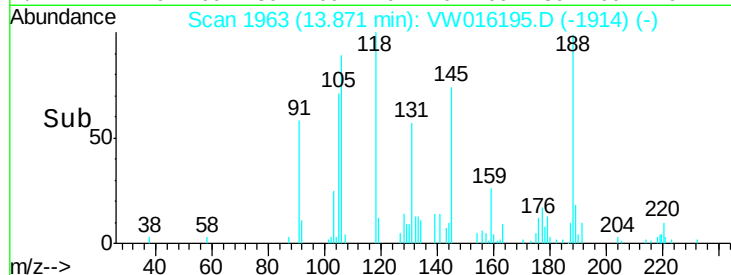
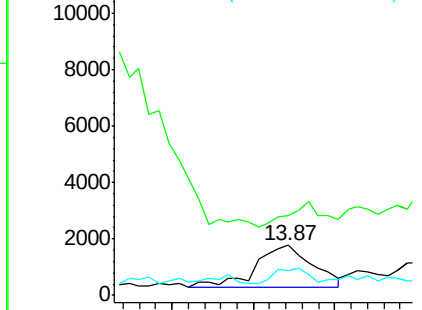
#91
1,2-Dichlorobenzene
Concen: 1.577 ug/l
RT: 13.87 min Scan# 1963
Delta R.T. 0.00 min
Lab File: VW016195.D
Acq: 14 Aug 2020 16:33

Instrument :
MSVOA_W
ClientSampleId :
N48765

Tgt Ion:146 Resp: 3724
Ion Ratio Lower Upper
146 100
111 33.9 21.9 65.8
148 21.0 32.1 96.3#

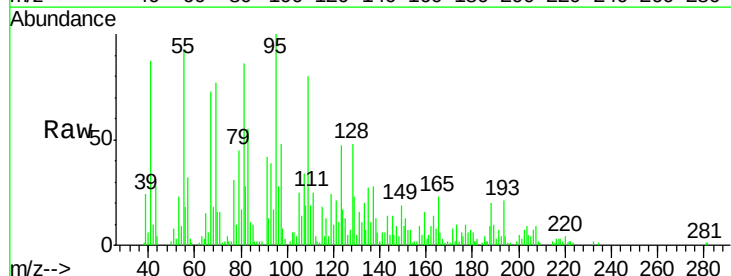


Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

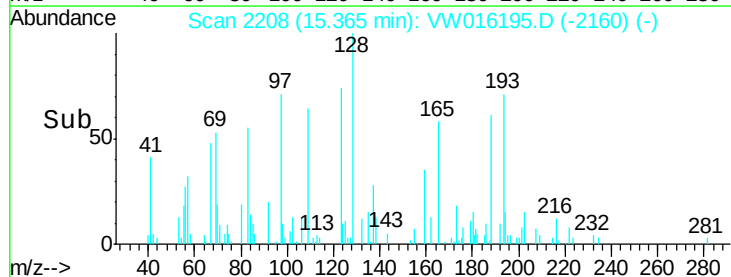
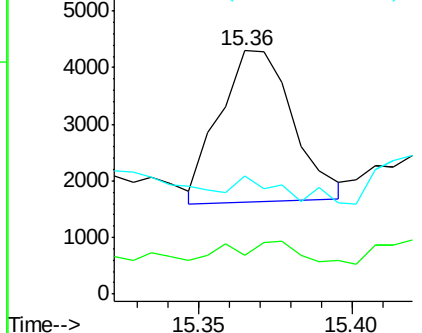


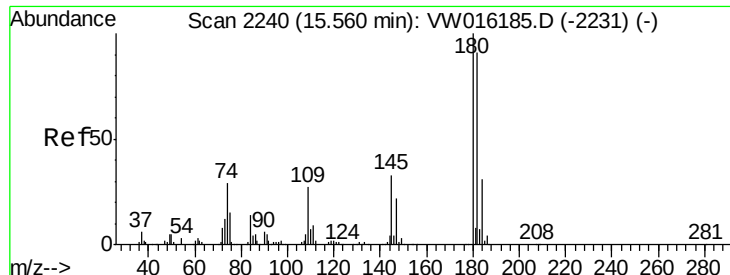
#95
Naphthalene
Concen: 4.979 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.01 min
Lab File: VW016195.D
Acq: 14 Aug 2020 16:33

Tgt Ion:128 Resp: 4457
Ion Ratio Lower Upper
128 100
127 10.9 10.2 15.4
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

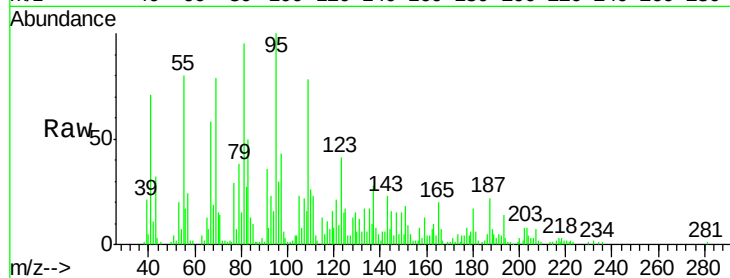




#96
 1,2,3-Trichlorobenzene
 Concen: 2.009 ug/l
 RT: 15.58 min Scan# 2243
 Delta R.T. 0.02 min
 Lab File: VW016195.D
 Acq: 14 Aug 2020 16:33

Instrument :
 MSVOA_W
 ClientSampleId :
 N48765

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.7	143.1#
145	0.0	17.4	52.3#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

