

Data File : VW008513.D
Acq On : 04 Feb 2019 20:23
Operator : SY/VA
Sample : K1346-01
Misc : 6.25G/5ML/MSVOA_W/SOIL
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
CL-02-020419-A

Quant Time: Feb 05 03:11:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W012419S.M
Quant Title : SW846 8260
QLast Update : Fri Jan 25 11:07:41 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	336086	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	548053	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	474420	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	198444	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.31	65	187968	56.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.86%	
35) Dibromofluoromethane	7.88	113	170979	53.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.70%	
50) Toluene-d8	10.32	98	639532	49.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.54%	
62) 4-Bromofluorobenzene	12.62	95	218595	44.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.50%	

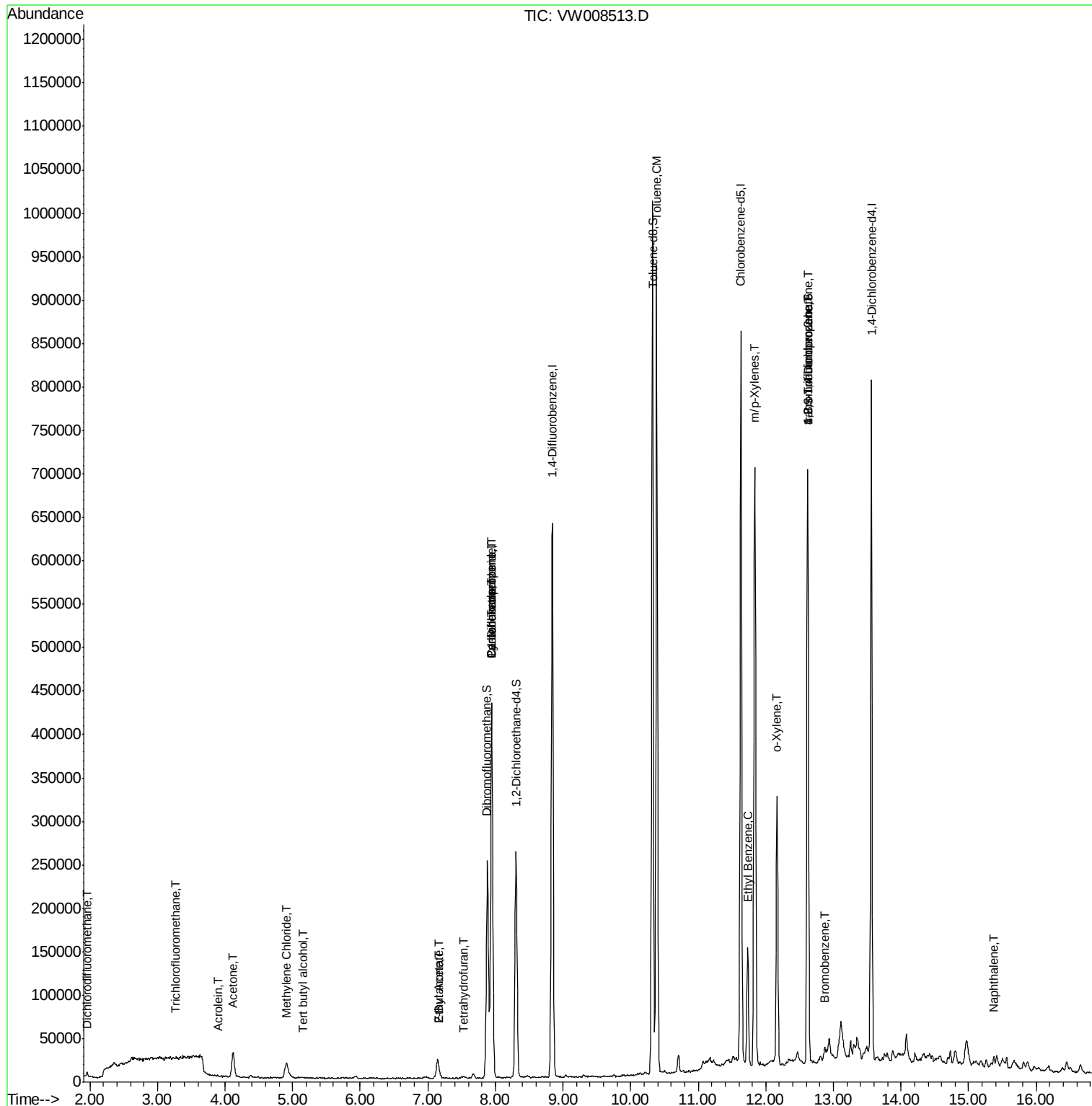
Target Compounds			Qvalue			
2) Dichlorodifluoromethane	1.95	85	21	3.263	ug/l #	41
7) Trichlorofluoromethane	3.26	101	158	4.772	ug/l #	33
11) Tert butyl alcohol	5.16	59	438	1.648	ug/l #	64
13) Acrolein	3.90	56	74	4.496	ug/l #	1
16) Acetone	4.12	43	49279	66.463	ug/l	93
20) Methylene Chloride	4.91	84	14897	4.359	ug/l	89
25) 2-Butanone	7.17	43	6796	6.599	ug/l	91
29) Tetrahydrofuran	7.53	42	1267	1.941	ug/l #	66
31) Cyclohexane	7.95	56	7886	1.217	ug/l #	20
36) 1,1-Dichloropropene	7.95	75	24533	4.739	ug/l #	51
37) Ethyl Acetate	7.17	43	6796	2.967	ug/l #	71
38) Carbon Tetrachloride	7.94	117	32321	6.204	ug/l #	17
52) Toluene	10.38	92	393214	41.466	ug/l	98
67) Ethyl Benzene	11.73	91	94133	5.288	ug/l	97
68) m/p-Xylenes	11.83	106	213296	30.881	ug/l	98
69) o-Xylene	12.16	106	80861	12.321	ug/l	98
76) 1,2,3-Trichloropropane	12.62	75	112791	65.373	ug/l #	1
77) Bromobenzene	12.87	156	3443	1.066	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.62	75	112791	129.118	ug/l #	12
95) Naphthalene	15.37	128	9214	1.274	ug/l	98

(#) = 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# 991

Delta R.T. 0.00 min

Lab File: VW008513.D

Acq: 04 Feb 2019 20:23

Instrument :

MSVOA_W

ClientSampleId :

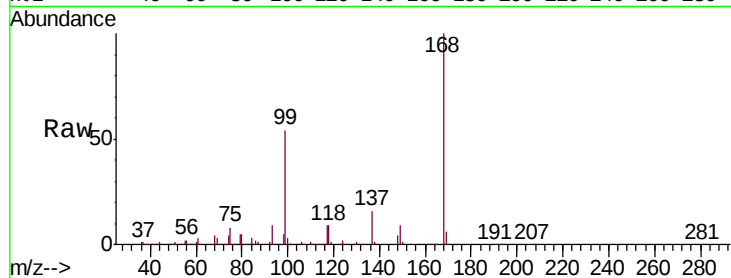
CL-02-020419-A

Tgt Ion: 168 Resp: 336086

Ion Ratio Lower Upper

168 100

99 54.1 45.5 68.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

150000

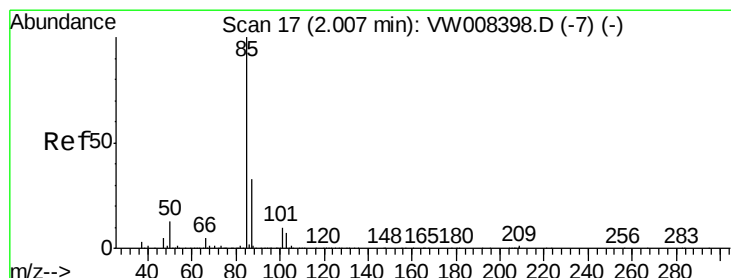
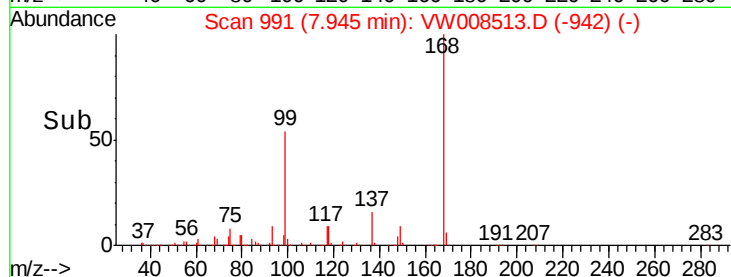
100000

50000

0

Time-->

7.90 8.00



#2

Dichlorodifluoromethane

Concen: 3.263 ug/l

RT: 1.95 min Scan# 7

Delta R.T. -0.06 min

Lab File: VW008513.D

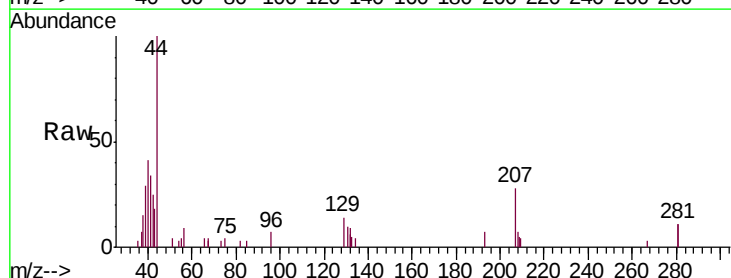
Acq: 04 Feb 2019 20:23

Tgt Ion: 85 Resp: 21

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

1.95

60

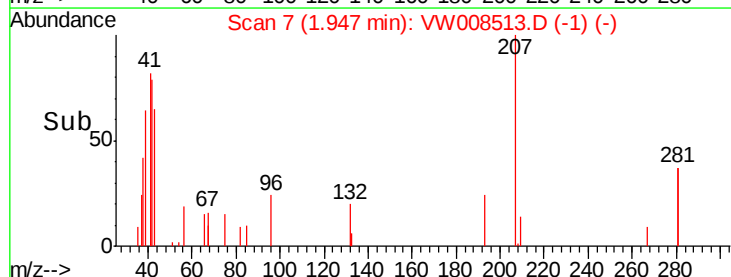
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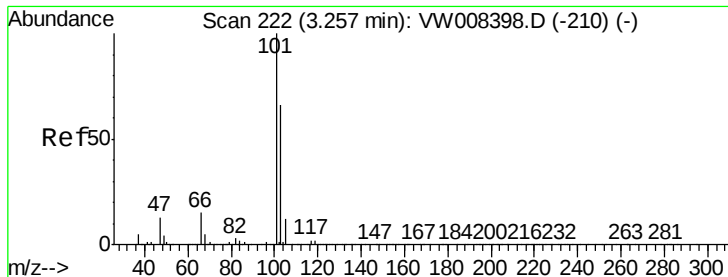
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0

Time-->

1.93 1.94 1.95 1.96



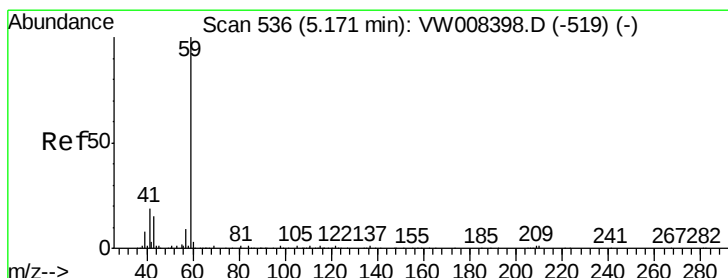
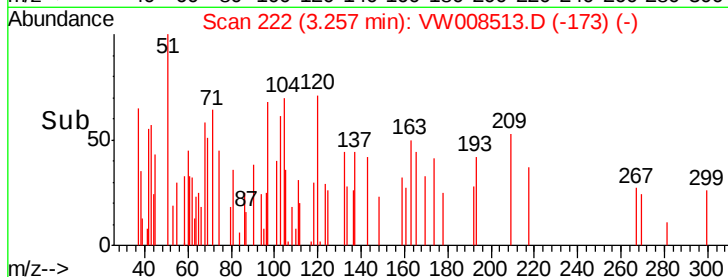
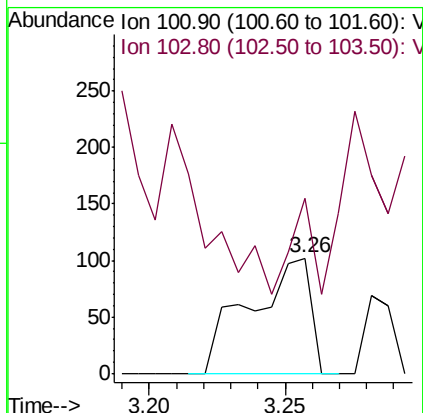
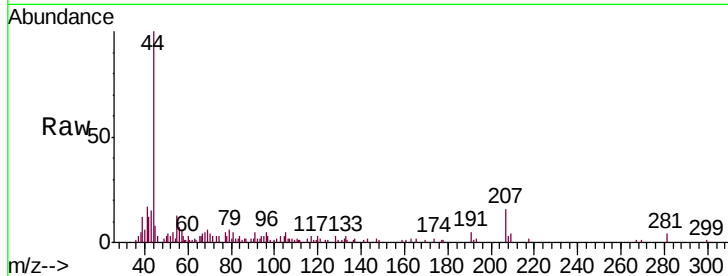


#7

Trichlorofluoromethane
Concen: 4.772 ug/l
RT: 3.26 min Scan# 222
Delta R.T. 0.00 min
Lab File: VW008513.D
Acq: 04 Feb 2019 20:23

Instrument :
MSVOA_W
ClientSampleId :
CL-02-020419-A

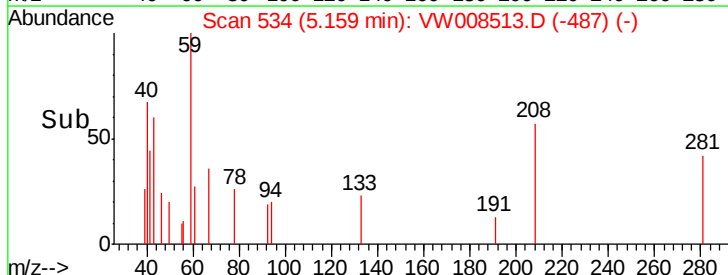
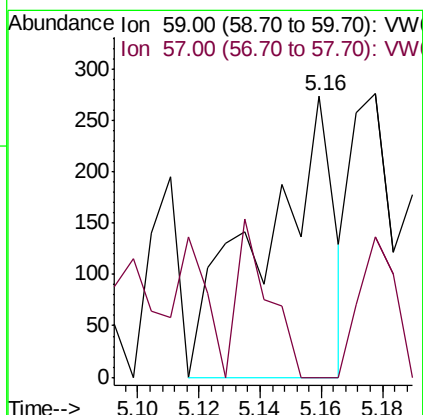
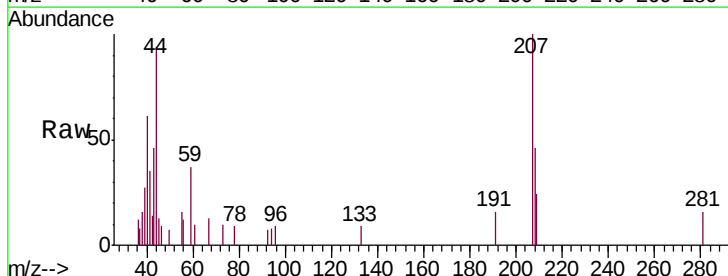
Tgt Ion: 101 Resp: 158
Ion Ratio Lower Upper
101 100
103 12.7 52.5 78.7#

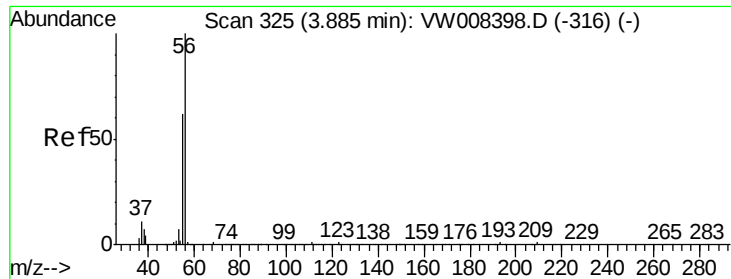


#11

Tert butyl alcohol
Concen: 1.648 ug/l
RT: 5.16 min Scan# 534
Delta R.T. -0.01 min
Lab File: VW008513.D
Acq: 04 Feb 2019 20:23

Tgt Ion: 59 Resp: 438
Ion Ratio Lower Upper
59 100
57 25.6 9.3 13.9#

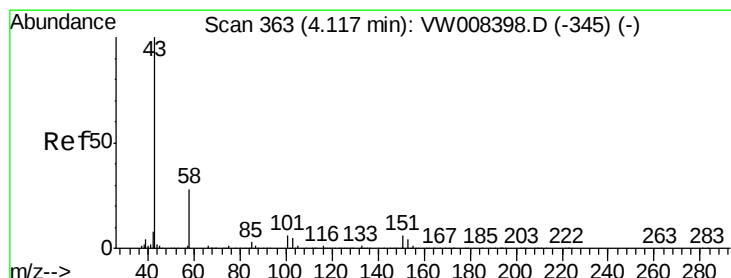
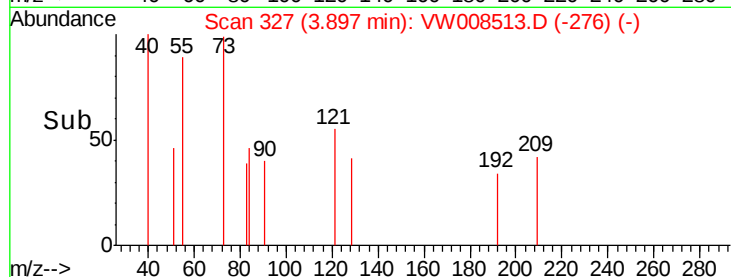
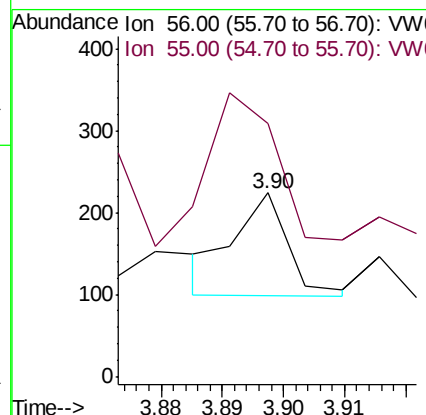
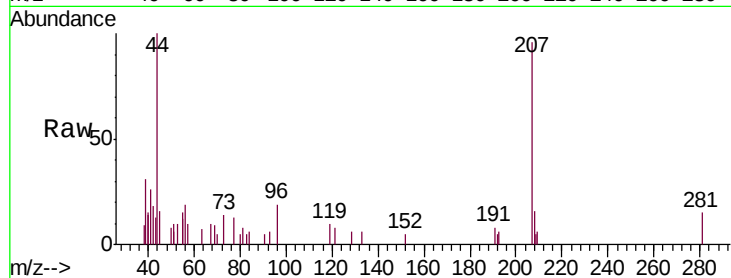




#13
Acrolein
Concen: 4.496 ug/l
RT: 3.90 min Scan# 327
Delta R.T. 0.01 min
Lab File: VW008513.D
Acq: 04 Feb 2019 20:23

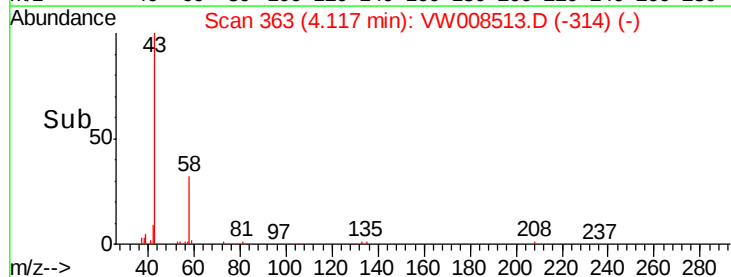
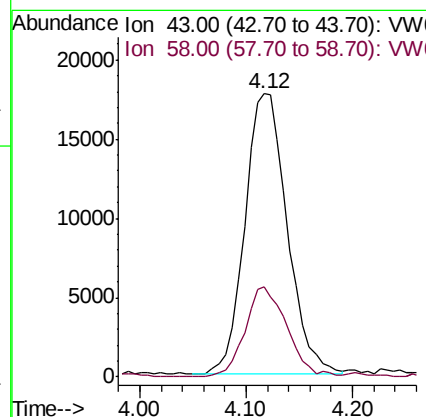
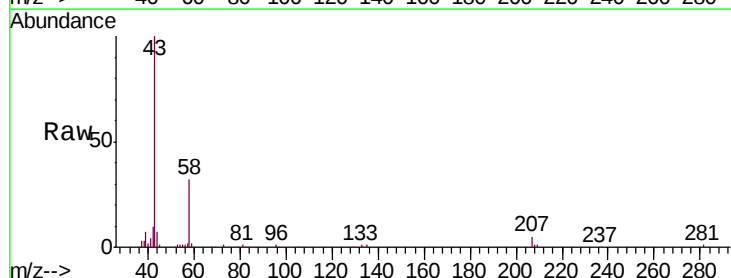
Instrument :
MSVOA_W
ClientSampleId :
CL-02-020419-A

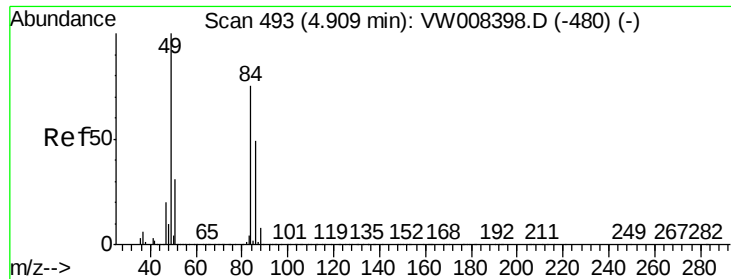
Tgt Ion: 56 Resp: 74
Ion Ratio Lower Upper
56 100
55 198.6 56.7 85.1#



#16
Acetone
Concen: 66.463 ug/l
RT: 4.12 min Scan# 363
Delta R.T. 0.00 min
Lab File: VW008513.D
Acq: 04 Feb 2019 20:23

Tgt Ion: 43 Resp: 49279
Ion Ratio Lower Upper
43 100
58 32.2 22.6 34.0

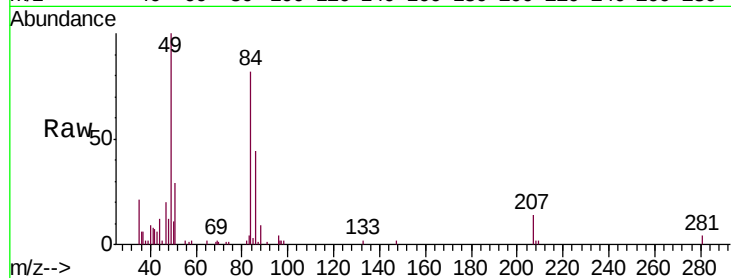




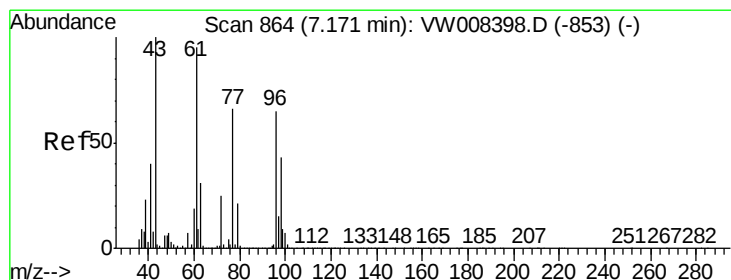
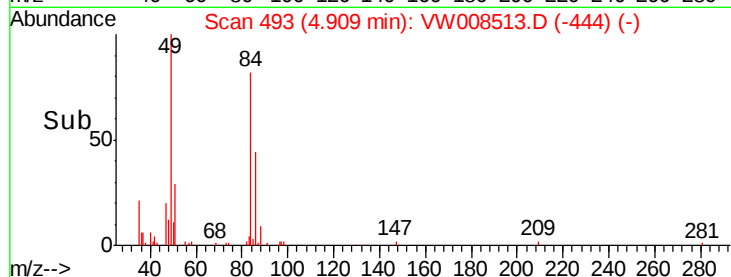
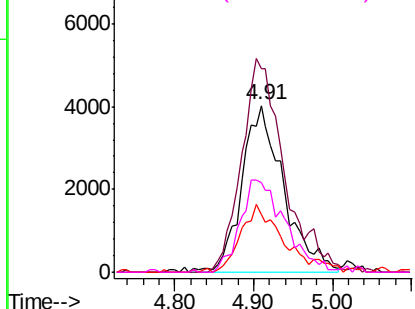
#20
Methylene Chloride
Concen: 4.359 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW008513.D
Acq: 04 Feb 2019 20:23

Instrument :
MSVOA_W
ClientSampleId :
CL-02-020419-A

Tgt Ion:	84	Resp:	14897
Ion	Ratio	Lower	Upper
84	100		
49	121.7	106.8	160.2
51	34.9	32.9	49.3
86	53.8	52.2	78.2

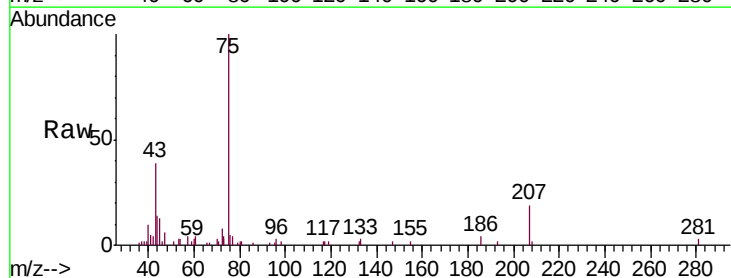


Abundance Ion 83.90 (83.60 to 84.60): VW
Ion 48.90 (48.60 to 49.60): VW
Ion 50.90 (50.60 to 51.60): VW
Ion 85.90 (85.60 to 86.60): VW

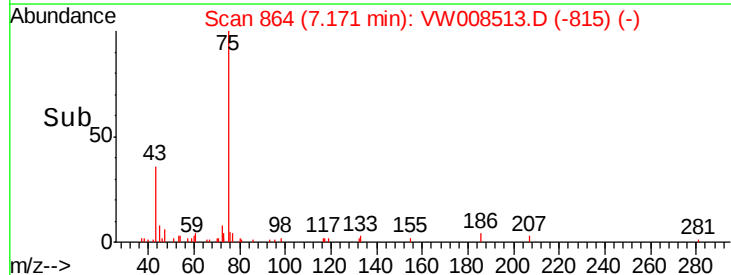
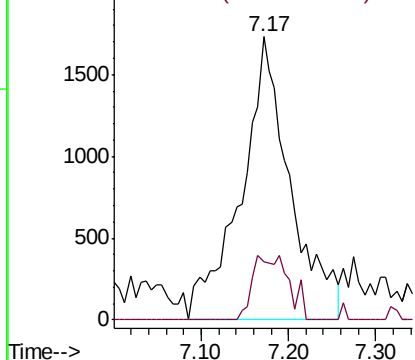


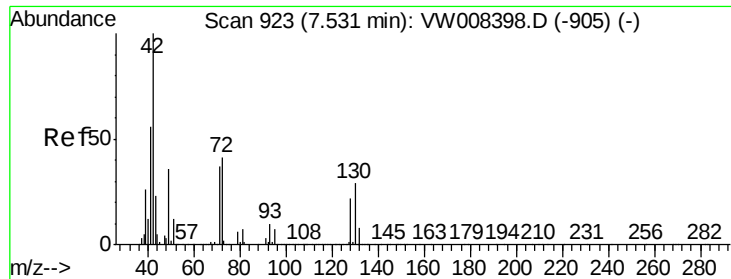
#25
2-Butanone
Concen: 6.599 ug/l
RT: 7.17 min Scan# 864
Delta R.T. 0.00 min
Lab File: VW008513.D
Acq: 04 Feb 2019 20:23

Tgt Ion:	43	Resp:	6796
Ion	Ratio	Lower	Upper
43	100		
72	20.7	20.1	30.1



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

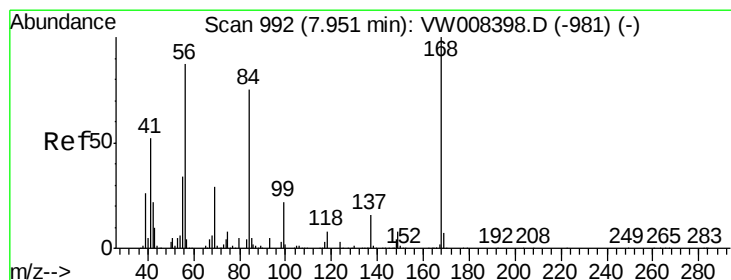
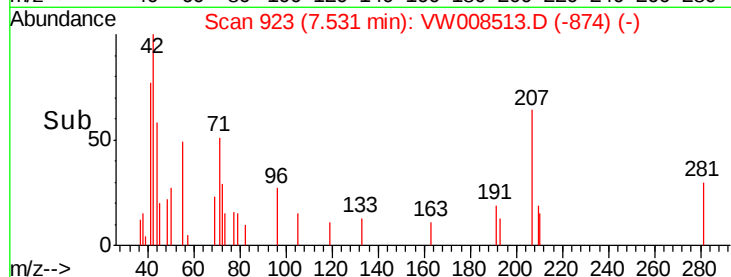
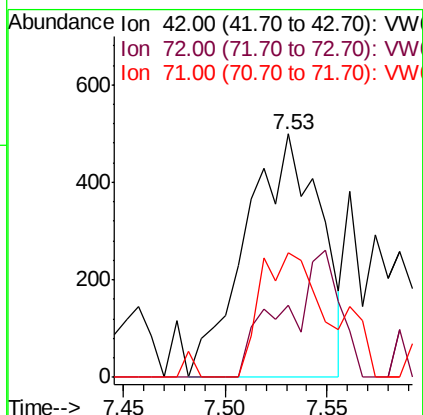
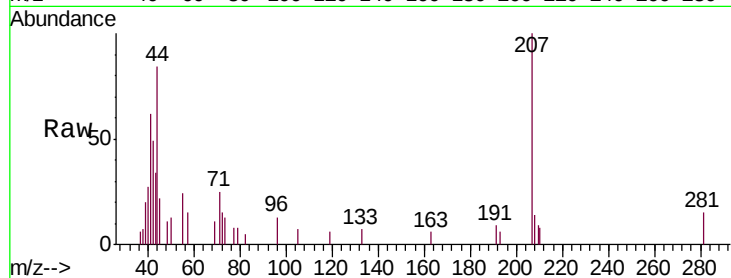




#29
Tetrahydrofuran
Concen: 1.941 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.00 min
Lab File: VW008513.D
Acq: 04 Feb 2019 20:23

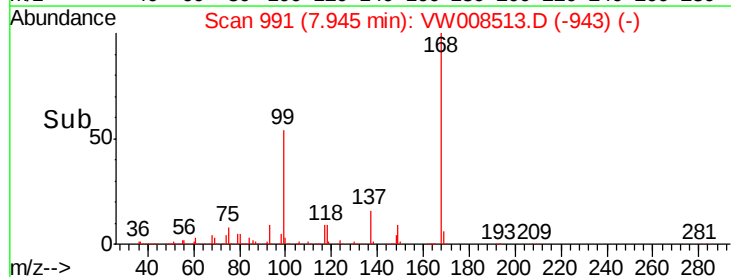
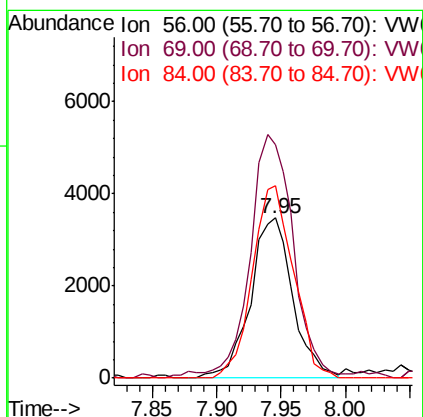
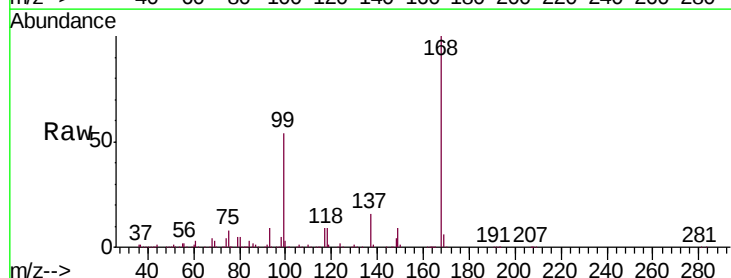
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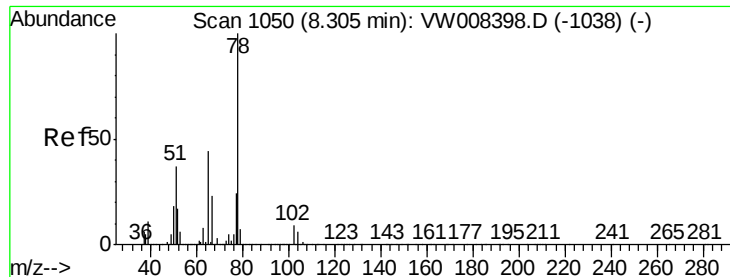
Tgt Ion	Ratio	Lower	Upper
42	100		
72	10.4	31.9	47.9#
71	48.5	29.9	44.9#



#31
Cyclohexane
Concen: 1.217 ug/l
RT: 7.95 min Scan# 991
Delta R.T. -0.01 min
Lab File: VW008513.D
Acq: 04 Feb 2019 20:23

Tgt Ion	Ratio	Lower	Upper
56	100		
69	142.7	26.4	39.6#
84	120.4	69.1	103.7#

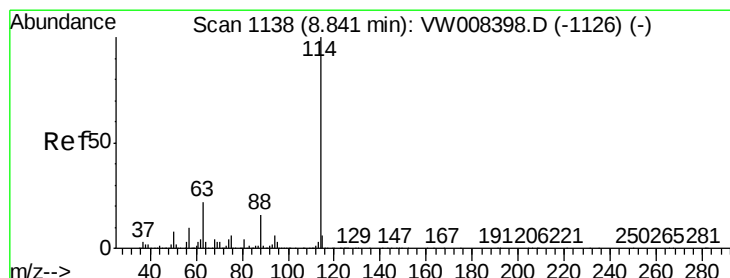
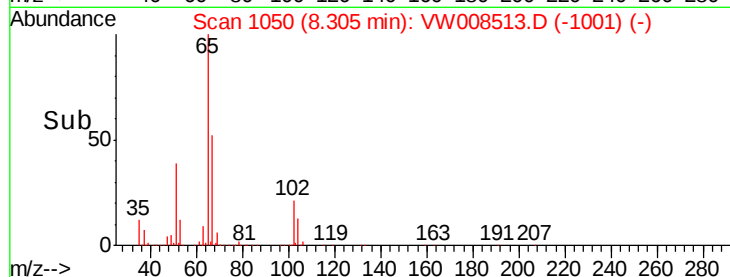
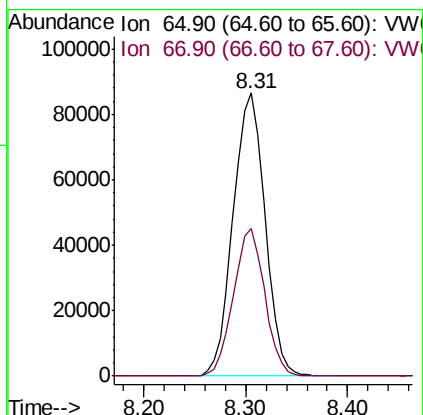
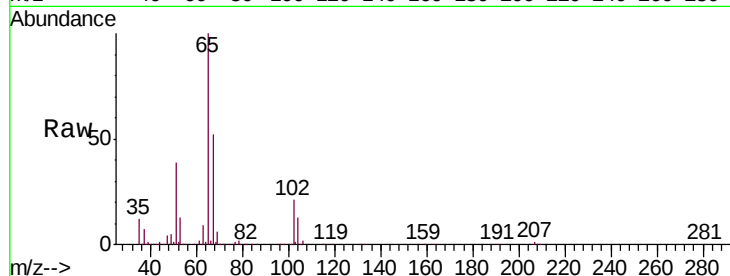




#33
 1,2-Dichloroethane-d4
 Concen: 56.930 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. 0.00 min
 Lab File: VW008513.D
 Acq: 04 Feb 2019 20:23

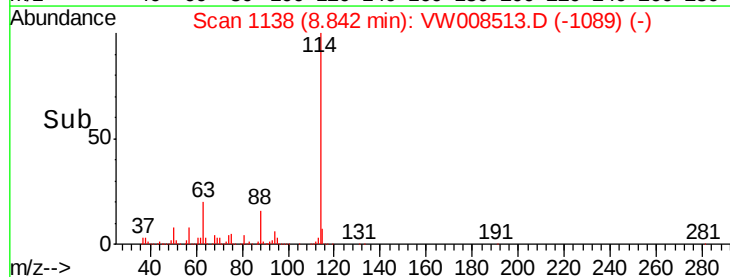
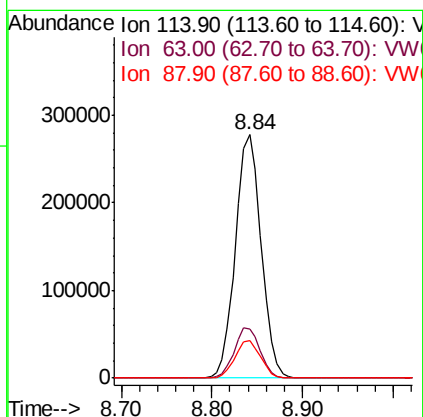
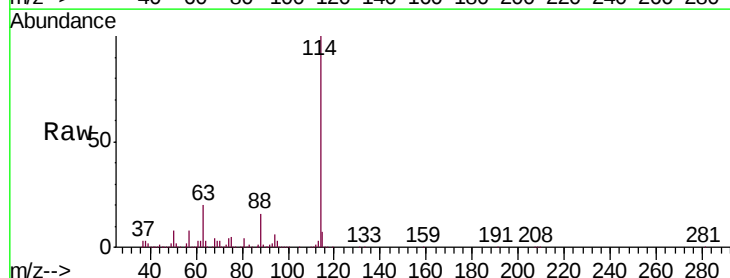
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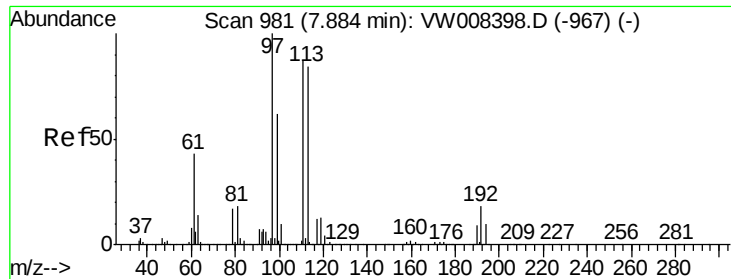
Tgt Ion: 65 Resp: 187968
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW008513.D
 Acq: 04 Feb 2019 20:23

Tgt Ion: 114 Resp: 548053
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 43.6
 88 15.6 0.0 31.8

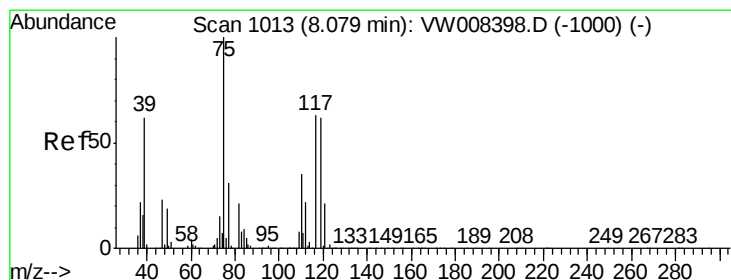
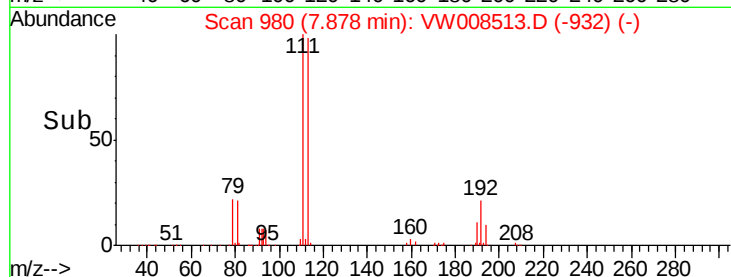
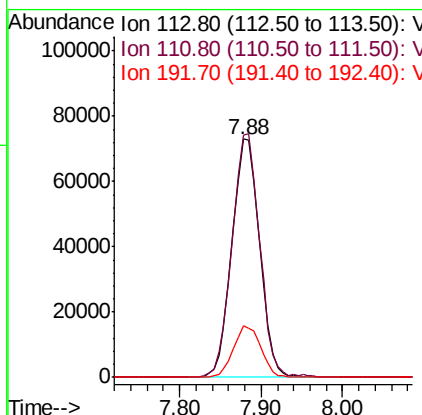
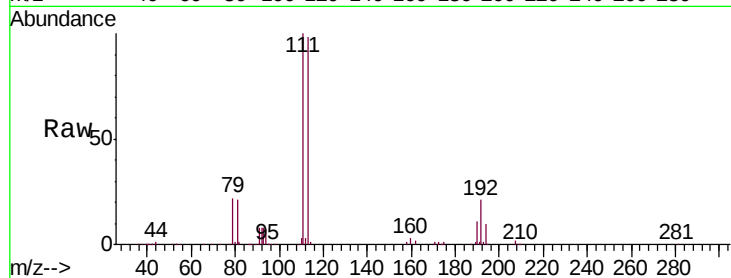




#35
 Dibromofluoromethane
 Concen: 53.353 ug/l
 RT: 7.88 min Scan# 980
 Delta R.T. -0.01 min
 Lab File: VW008513.D
 Acq: 04 Feb 2019 20:23

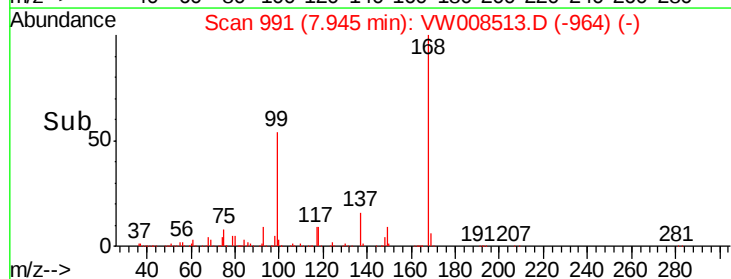
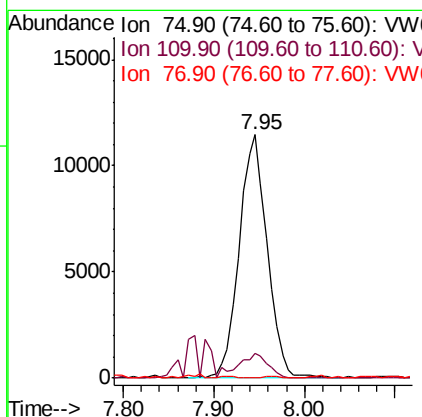
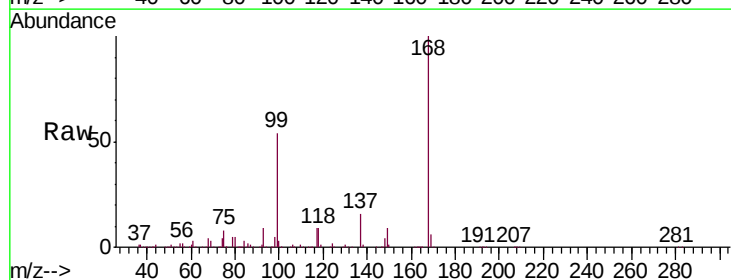
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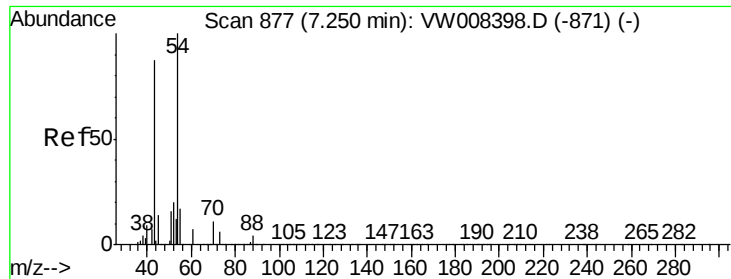
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	81.0	121.4
192	21.4	16.8	25.2



#36
 1,1-Dichloropropene
 Concen: 4.739 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW008513.D
 Acq: 04 Feb 2019 20:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	17.3	52.0#
77	0.4	24.7	37.1#

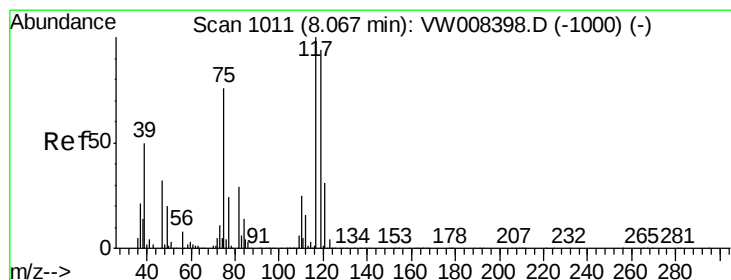
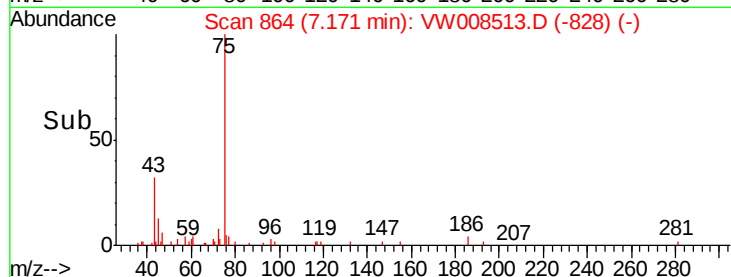
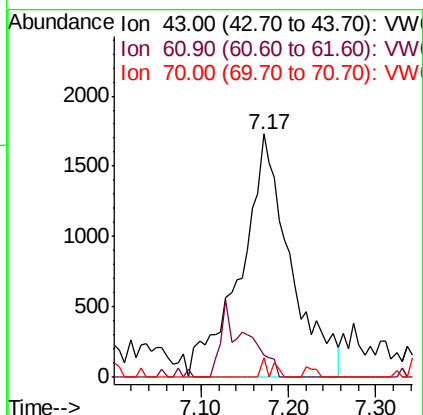
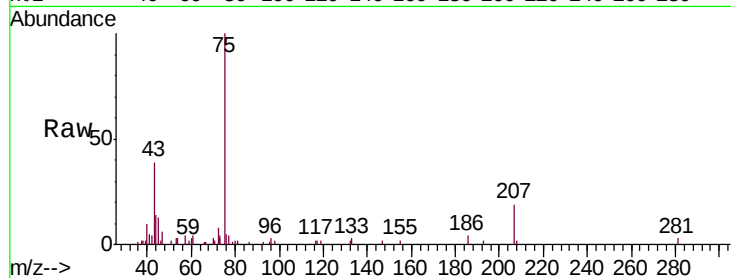




#37
Ethyl Acetate
Concen: 2.967 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.08 min
Lab File: VW008513.D
Acq: 04 Feb 2019 20:23

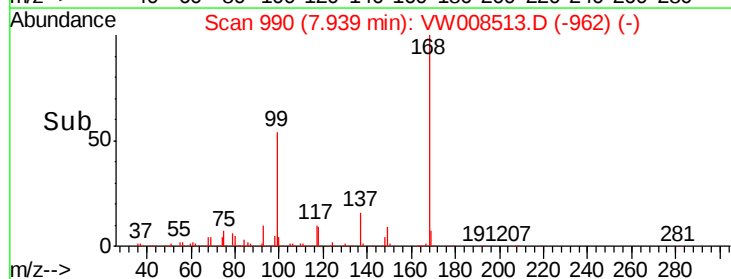
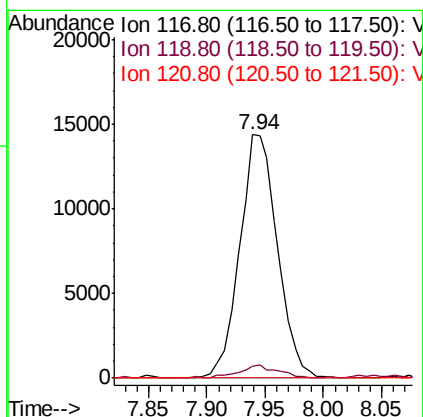
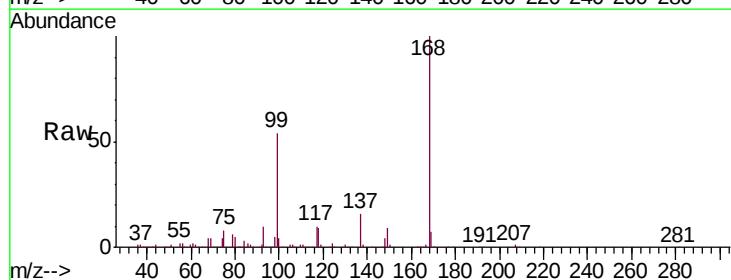
Instrument :
MSVOA_W
ClientSampleId :
CL-02-020419-A

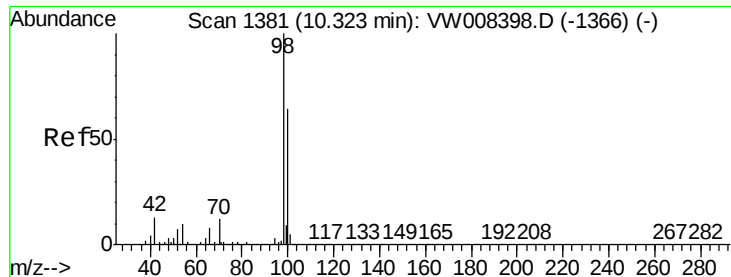
Tgt Ion: 43 Resp: 6796
Ion Ratio Lower Upper
43 100
61 0.0 10.1 15.1#
70 0.7 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 6.204 ug/l
RT: 7.94 min Scan# 990
Delta R.T. -0.13 min
Lab File: VW008513.D
Acq: 04 Feb 2019 20:23

Tgt Ion: 117 Resp: 32321
Ion Ratio Lower Upper
117 100
119 5.0 75.0 112.4#
121 0.0 24.9 37.3#





#50

Toluene-d8

Concen: 49.766 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW008513.D

Acq: 04 Feb 2019 20:23

Instrument :

MSVOA_W

ClientSampleId :

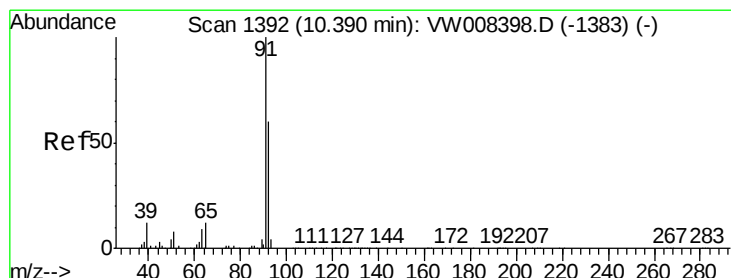
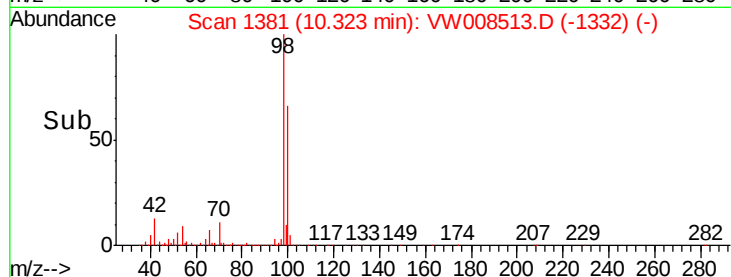
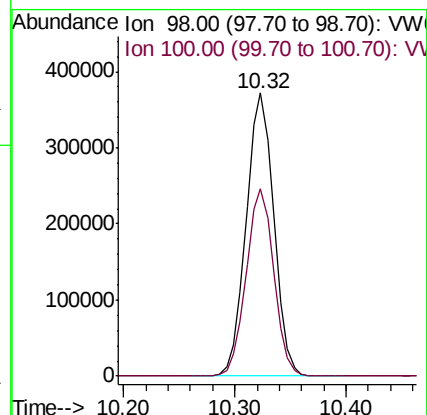
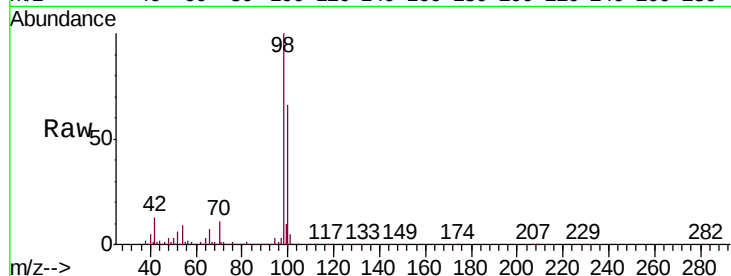
CL-02-020419-A

Tgt Ion: 98 Resp: 639532

Ion Ratio Lower Upper

98 100

100 66.3 52.6 78.8



#52

Toluene

Concen: 41.466 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.01 min

Lab File: VW008513.D

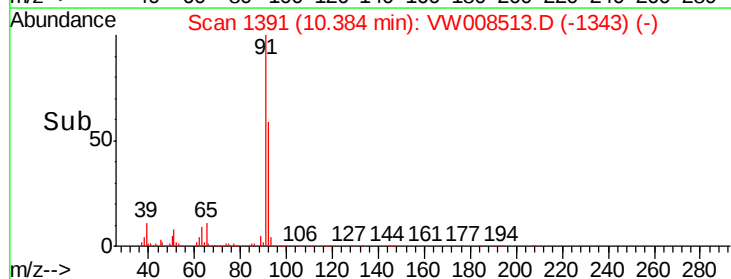
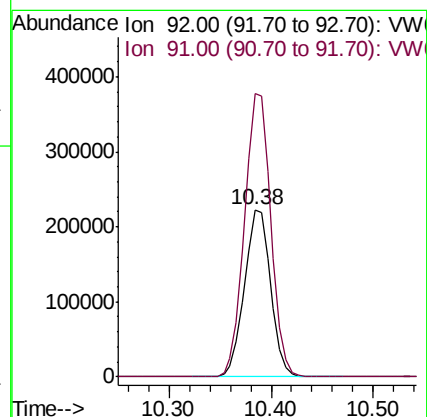
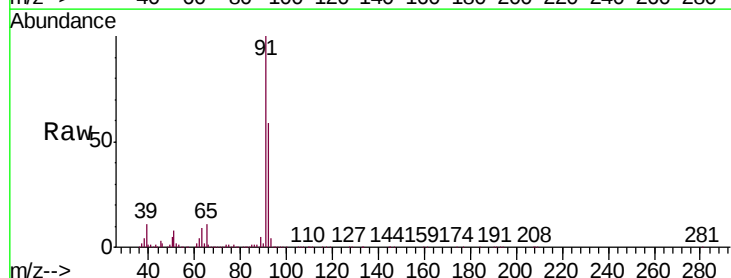
Acq: 04 Feb 2019 20:23

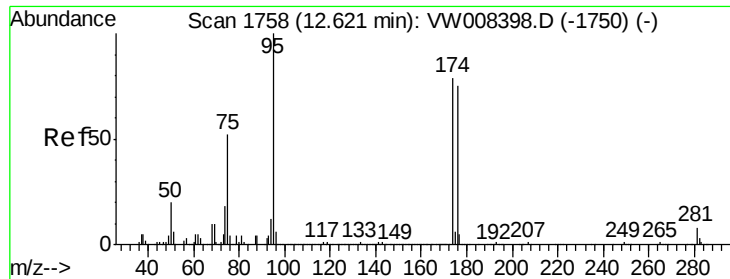
Tgt Ion: 92 Resp: 393214

Ion Ratio Lower Upper

92 100

91 171.5 135.5 203.3





#62

4-Bromofluorobenzene

Concen: 44.253 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VW008513.D

Acq: 04 Feb 2019 20:23

Instrument :

MSVOA_W

ClientSampleId :

CL-02-020419-A

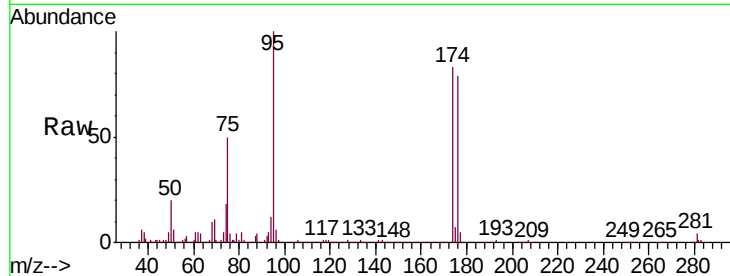
Tgt Ion: 95 Resp: 218595

Ion Ratio Lower Upper

95 100

174 83.5 0.0 157.6

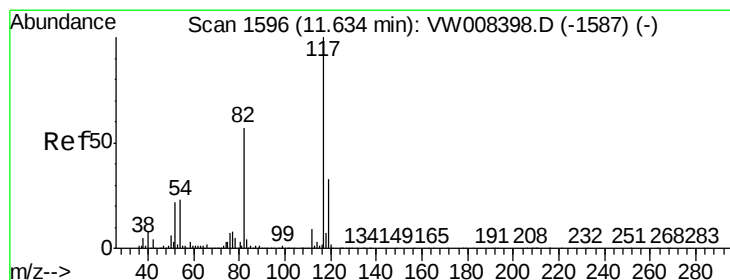
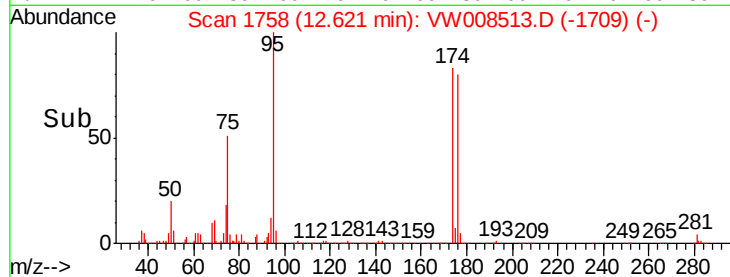
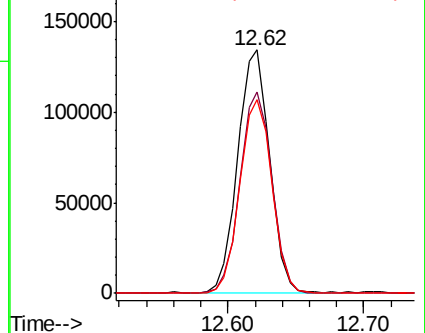
176 80.6 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): VW

Ion 175.80 (175.50 to 176.50): VW



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW008513.D

Acq: 04 Feb 2019 20:23

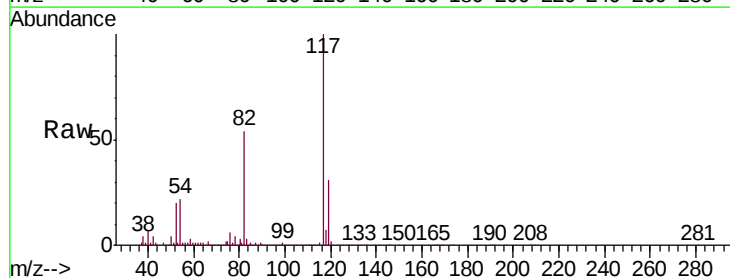
Tgt Ion: 117 Resp: 474420

Ion Ratio Lower Upper

117 100

82 54.1 45.4 68.0

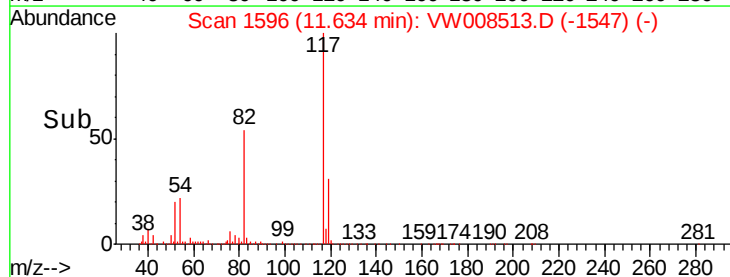
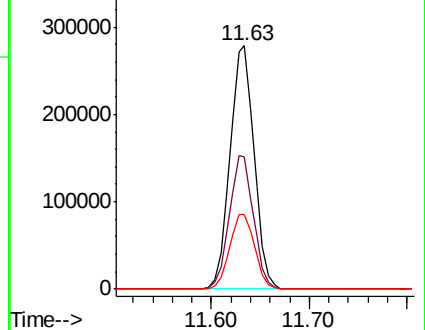
119 30.8 26.2 39.4

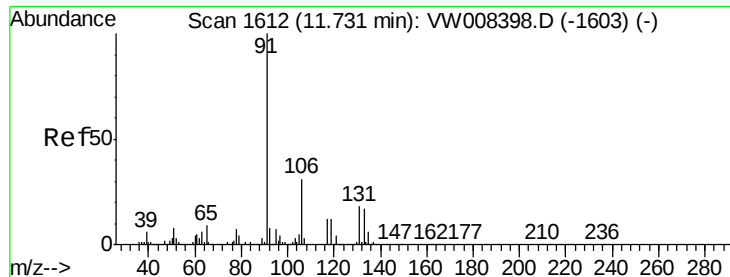


Abundance Ion 116.90 (116.60 to 117.60): VW

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): VW





#67

Ethyl Benzene

Concen: 5.288 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW008513.D

Acq: 04 Feb 2019 20:23

Instrument :

MSVOA_W

ClientSampleId :

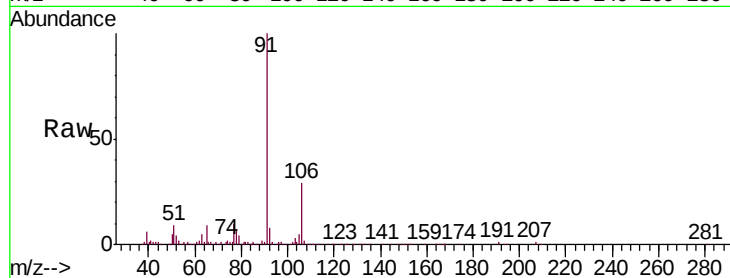
CL-02-020419-A

Tgt Ion: 91 Resp: 94133

Ion Ratio Lower Upper

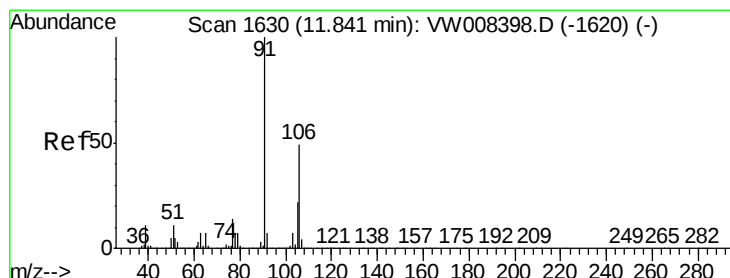
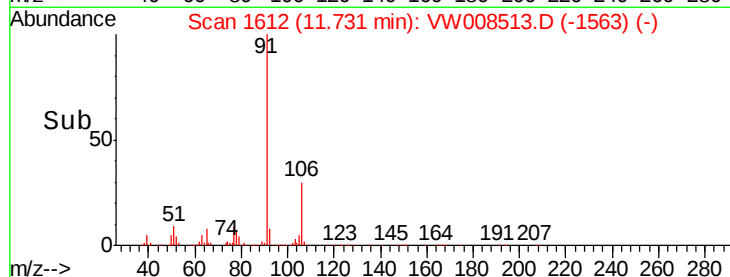
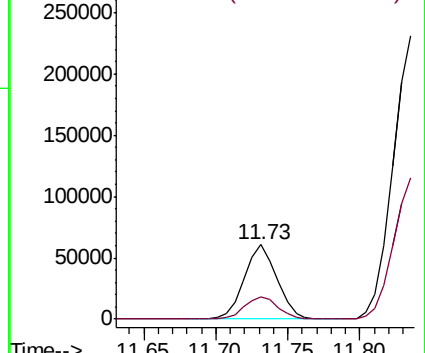
91 100

106 29.5 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 30.881 ug/l

RT: 11.83 min Scan# 1629

Delta R.T. -0.01 min

Lab File: VW008513.D

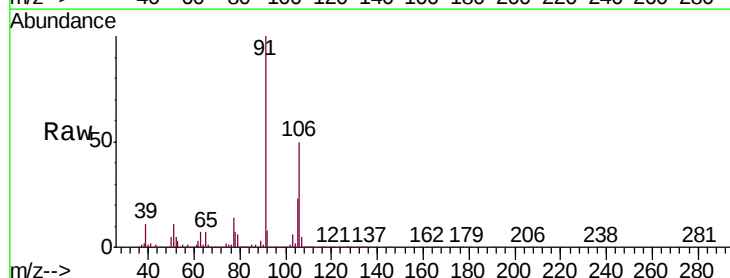
Acq: 04 Feb 2019 20:23

Tgt Ion: 106 Resp: 213296

Ion Ratio Lower Upper

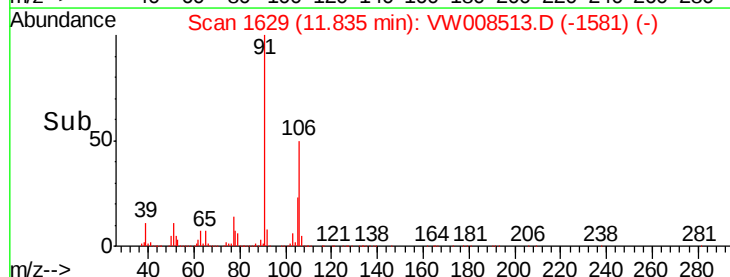
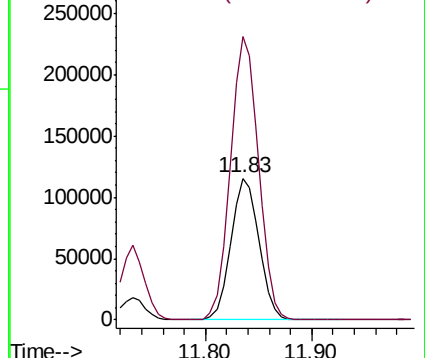
106 100

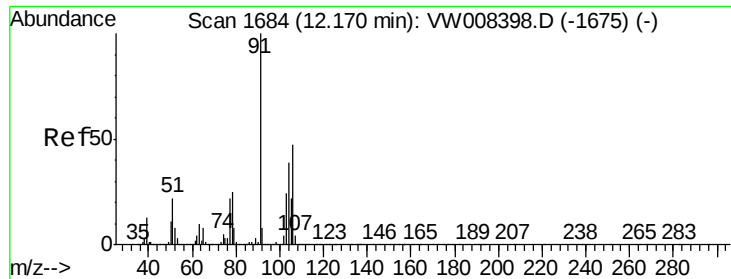
91 199.9 162.9 244.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

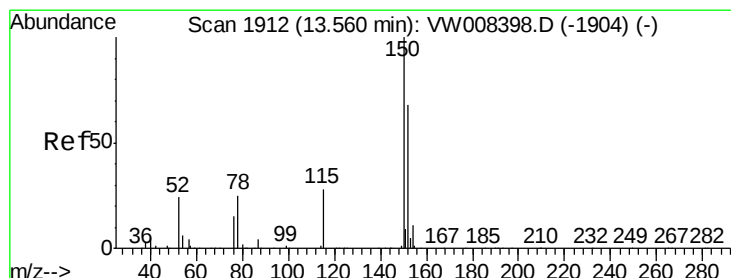
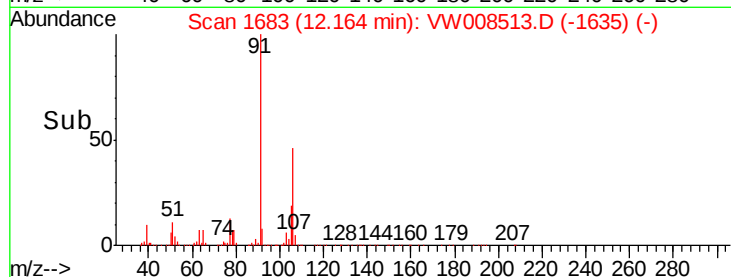
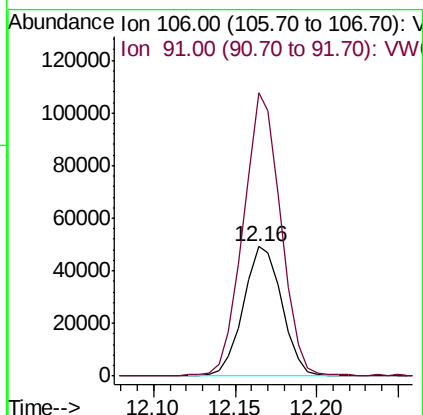
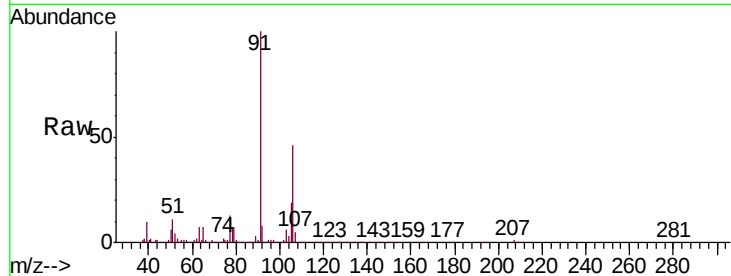




#69
o-Xylene
Concen: 12.321 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW008513.D
Acq: 04 Feb 2019 20:23

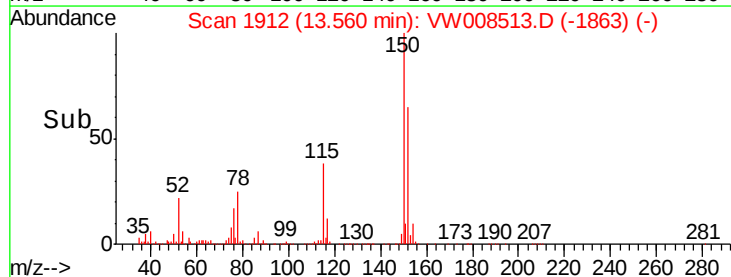
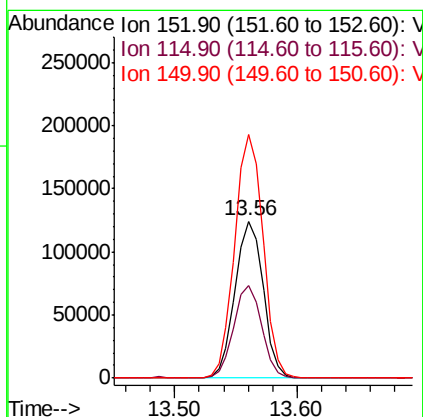
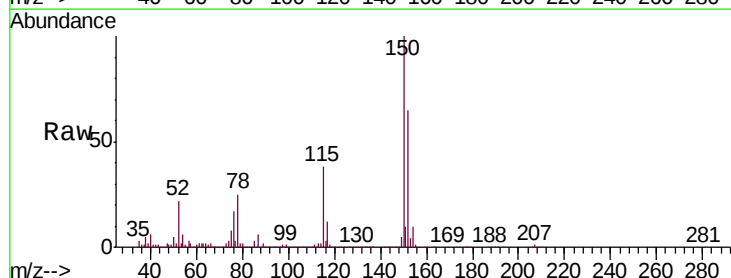
Instrument :
MSVOA_W
ClientSampleId :
CL-02-020419-A

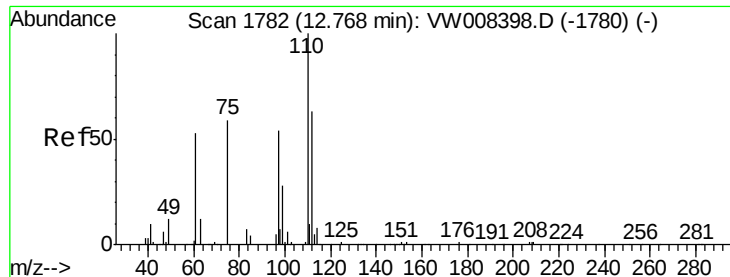
Tgt Ion:106 Resp: 80861
Ion Ratio Lower Upper
106 100
91 211.1 107.5 322.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW008513.D
Acq: 04 Feb 2019 20:23

Tgt Ion:152 Resp: 198444
Ion Ratio Lower Upper
152 100
115 58.1 29.9 89.7
150 155.4 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 65.373 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. -0.15 min

Lab File: VW008513.D

Acq: 04 Feb 2019 20:23

Instrument :

MSVOA_W

ClientSampleId :

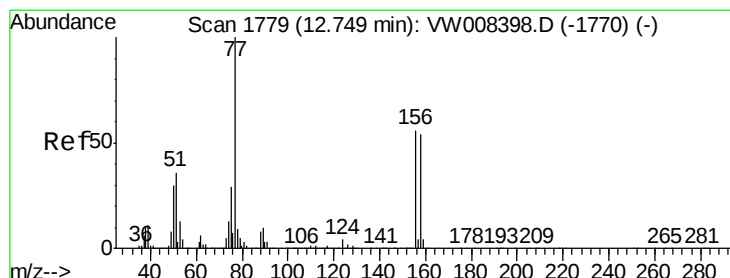
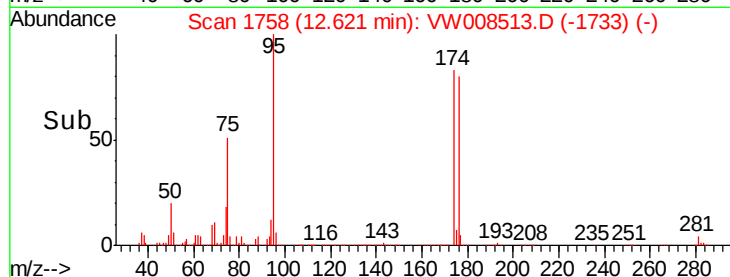
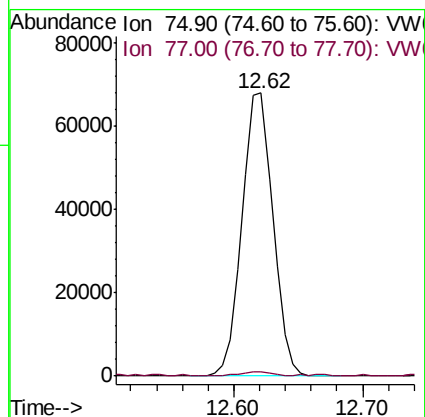
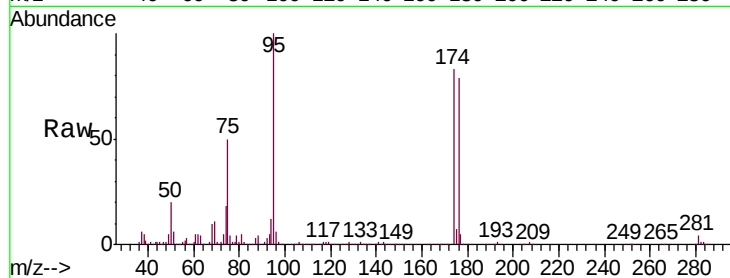
CL-02-020419-A

Tgt Ion: 75 Resp: 112791

Ion Ratio Lower Upper

75 100

77 1.3 180.7 542.1#



#77

Bromobenzene

Concen: 1.066 ug/l

RT: 12.87 min Scan# 1799

Delta R.T. 0.12 min

Lab File: VW008513.D

Acq: 04 Feb 2019 20:23

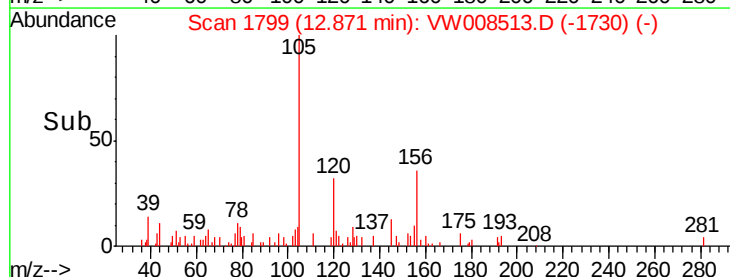
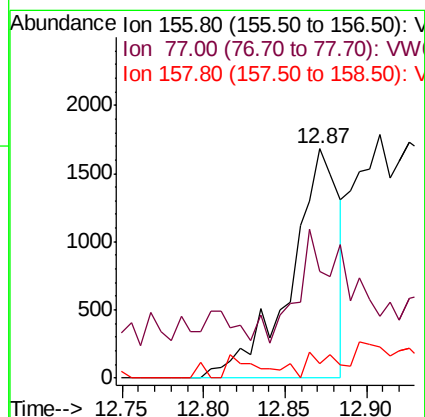
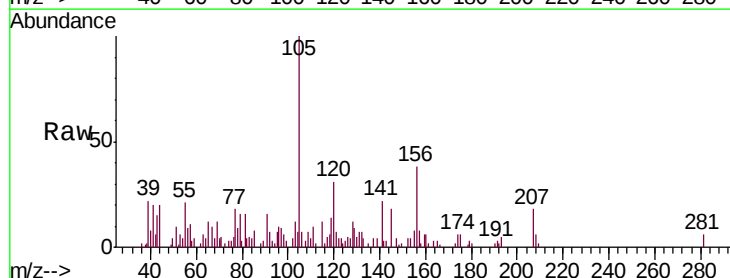
Tgt Ion: 156 Resp: 3443

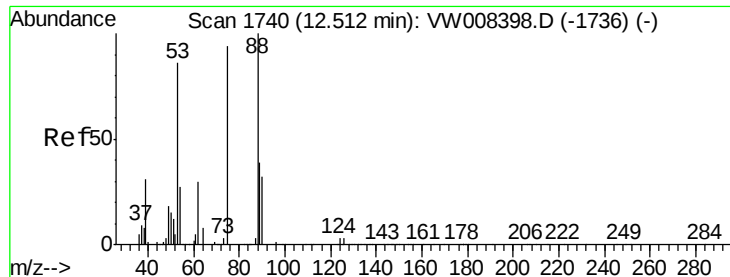
Ion Ratio Lower Upper

156 100

77 29.0 96.9 290.7#

158 8.0 48.8 146.4#





#81

trans-1,4-Dichloro-2-butene

Concen: 129.118 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.11 min

Lab File: VW008513.D

Acq: 04 Feb 2019 20:23

Instrument :

MSVOA_W

ClientSampleId :

CL-02-020419-A

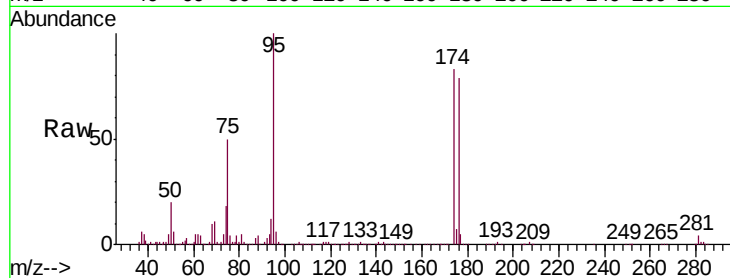
Tgt Ion: 75 Resp: 112791

Ion Ratio Lower Upper

75 100

53 0.6 76.0 114.0#

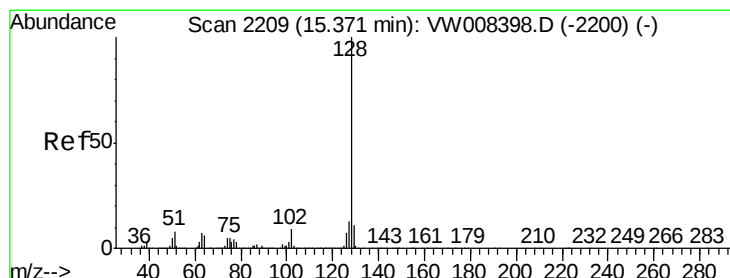
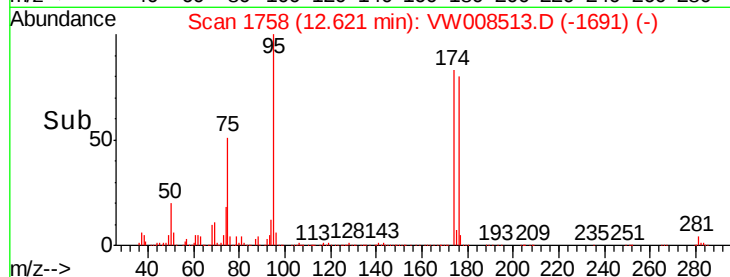
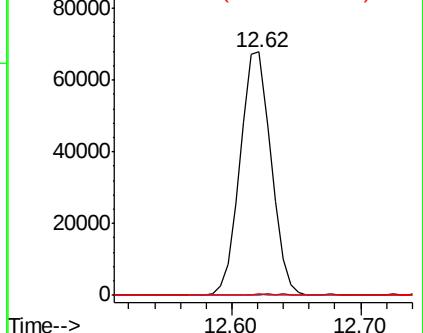
89 0.3 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#95

Naphthalene

Concen: 1.274 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.00 min

Lab File: VW008513.D

Acq: 04 Feb 2019 20:23

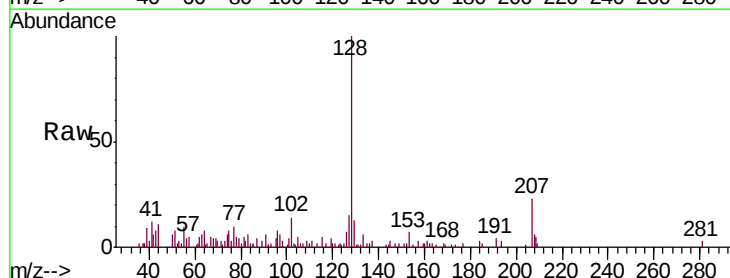
Tgt Ion: 128 Resp: 9214

Ion Ratio Lower Upper

128 100

127 14.2 10.6 15.8

129 11.6 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

