

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111119\
 Data File : VD064188.D
 Acq On : 11 Nov 2019 20:08
 Operator : VA/SY
 Sample : K5782-05
 Misc : 8.14G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 12 02:51:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	681880	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	1131290	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	1136785	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	609402	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	328805	58.63	ug/l	0.00
Spiked Amount			Recovery	=	117.26%	
35) Dibromofluoromethane	7.92	113	356581	54.91	ug/l	0.00
Spiked Amount			Recovery	=	109.82%	
50) Toluene-d8	10.34	98	1373065	56.05	ug/l	0.00
Spiked Amount			Recovery	=	112.10%	
62) 4-Bromofluorobenzene	12.64	95	537215	63.32	ug/l	0.00
Spiked Amount			Recovery	=	126.64%	

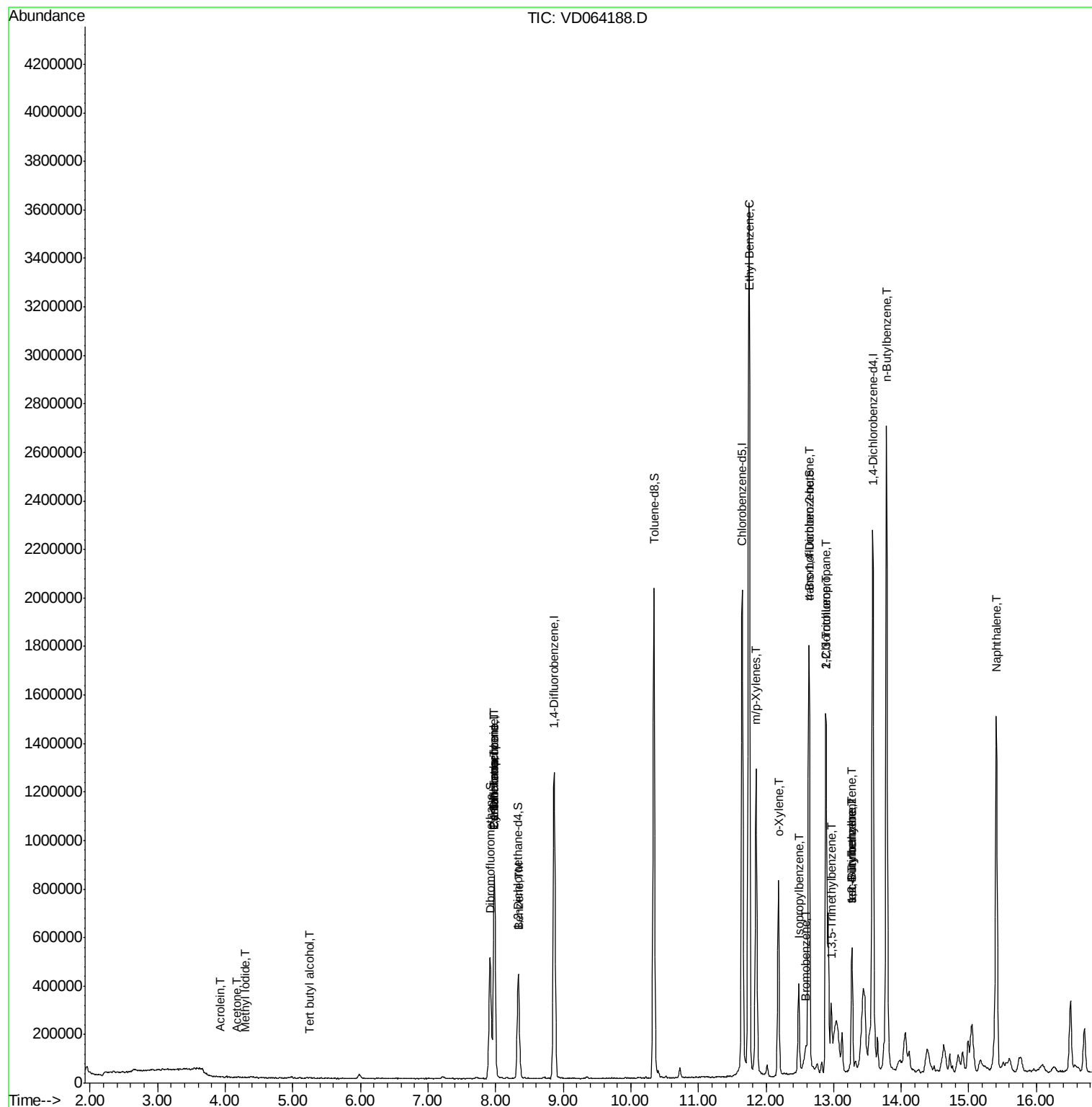
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	4.29	142	594	2.114	ug/l #	41
11) Tert butyl alcohol	5.25	59	1131	2.887	ug/l #	24
13) Acrolein	3.93	56	426	1.286	ug/l #	1
16) Acetone	4.17	43	3850	2.898	ug/l #	87
31) Cyclohexane	7.99	56	15820	1.437	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	45076	4.317	ug/l #	49
38) Carbon Tetrachloride	7.99	117	61098	5.469	ug/l #	15
40) Benzene	8.34	78	47934	1.680	ug/l	99
67) Ethyl Benzene	11.75	91	2632209	62.950	ug/l	100
68) m/p-Xylenes	11.86	106	409169	25.529	ug/l	98
69) o-Xylene	12.18	106	218950	14.730	ug/l	98
73) Isopropylbenzene	12.48	105	217129	4.854	ug/l	98
76) 1,2,3-Trichloropropane	12.88	75	12218	2.489	ug/l #	100
77) Bromobenzene	12.59	156	53119	4.888	ug/l #	1
79) 2-Chlorotoluene	12.89	91	156615	5.428	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.96	105	106384	2.894	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.64	75	283504	114.728	ug/l #	10
83) tert-Butylbenzene	13.27	119	37862	1.168	ug/l #	62
84) 1,2,4-Trimethylbenzene	13.27	105	276976	7.633	ug/l	99
85) sec-Butylbenzene	13.27	105	276976	6.363	ug/l #	55
89) n-Butylbenzene	13.78	91	262807	7.029	ug/l #	40
95) Naphthalene	15.41	128	1485432	68.801	ug/l	100

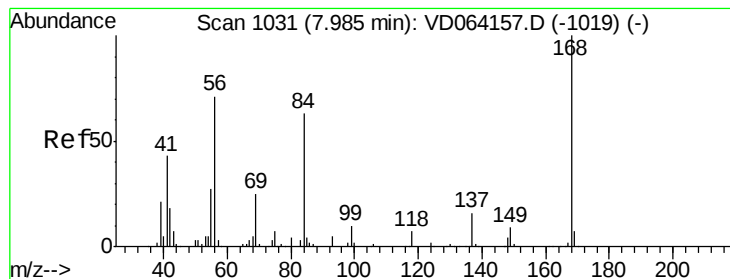
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Nov 12 02:43:24 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064188.D

Acq: 11 Nov 2019 20:08

Instrument :

MSVOA_D

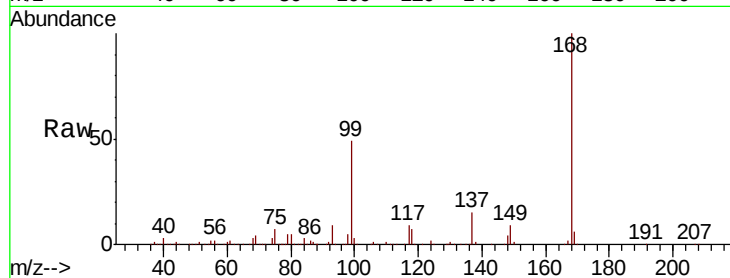
ClientSampleId :

Tot Ion:168 Resp: 681880

Ion Ratio Lower Upper

168 100

99 48.7 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.98

300000

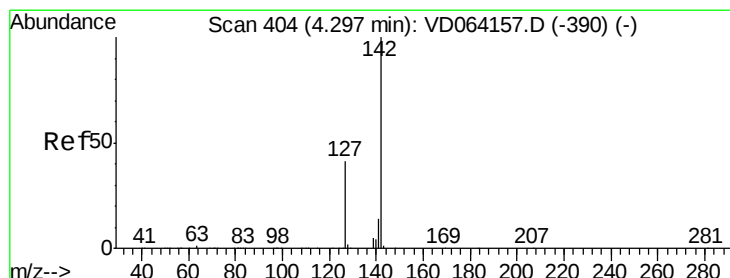
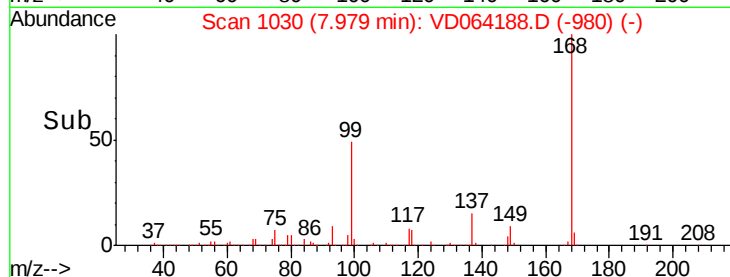
200000

100000

0

7.90 8.00 8.10

Time-->



#10

Methyl Iodide

Concen: 2.114 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.00 min

Lab File: VD064188.D

Acq: 11 Nov 2019 20:08

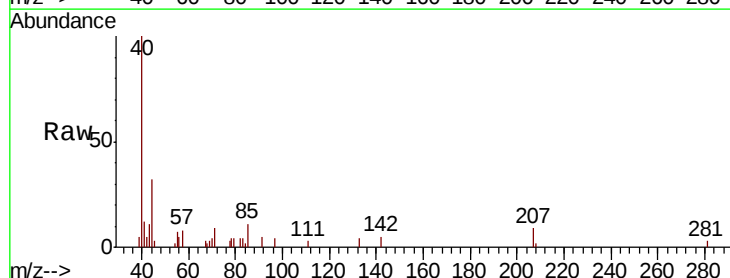
Tgt Ion:142 Resp: 594

Ion Ratio Lower Upper

142 100

127 0.0 34.4 51.6#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.29

600

500

400

300

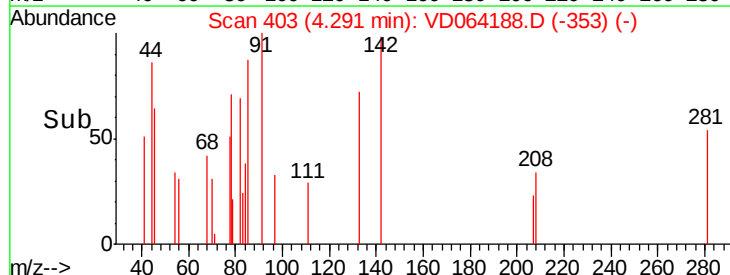
200

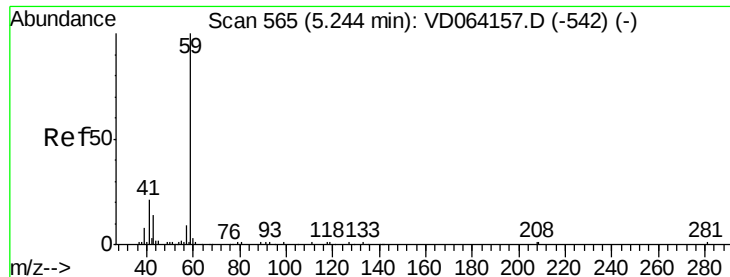
100

0

4.25 4.30

Time-->

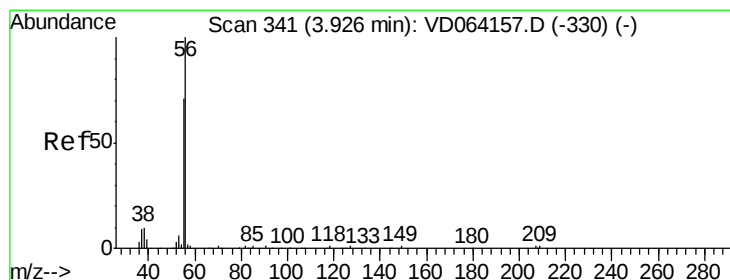
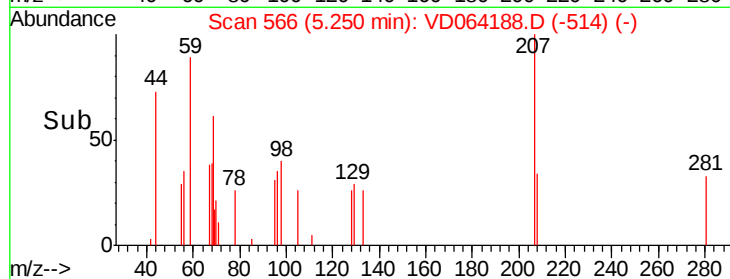
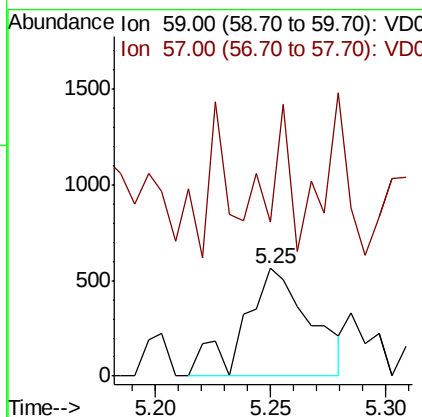
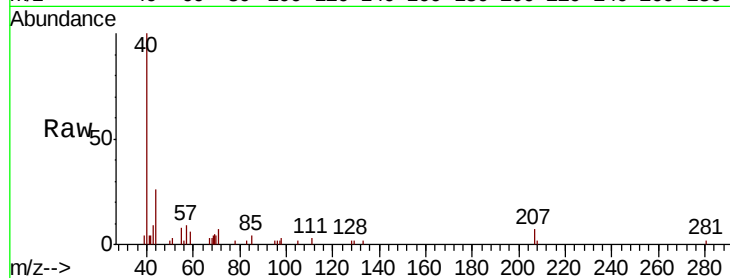




#11
Tert butyl alcohol
Concen: 2.887 ug/l
RT: 5.25 min Scan# 566
Delta R.T. 0.01 min
Lab File: VD064188.D
Acq: 11 Nov 2019 20:08

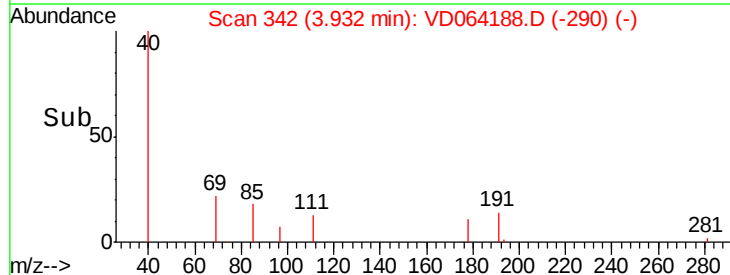
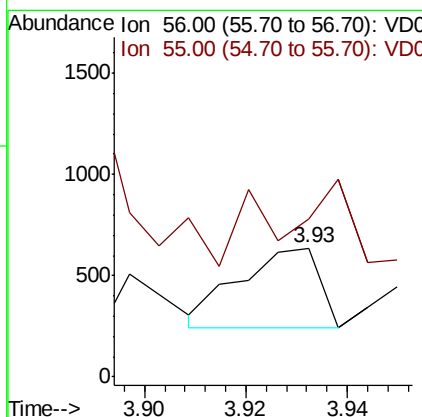
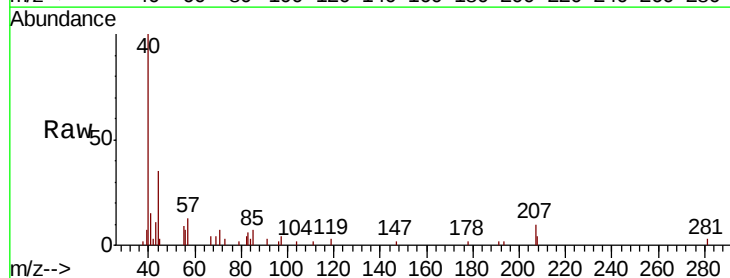
Instrument :
MSVOA_D
ClientSampleId :

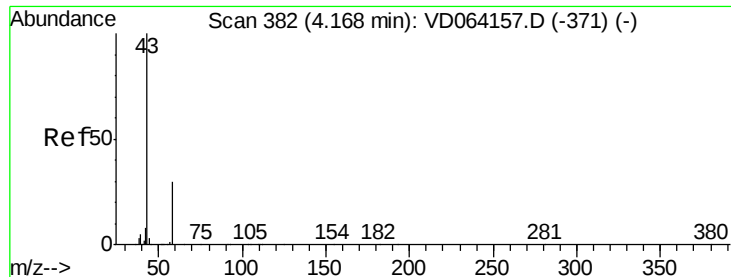
Tot Ion: 59 Resp: 1131
Ion Ratio Lower Upper
59 100
57 41.3 9.4 14.2#



#13
Acrolein
Concen: 1.286 ug/l
RT: 3.93 min Scan# 342
Delta R.T. 0.01 min
Lab File: VD064188.D
Acq: 11 Nov 2019 20:08

Tgt Ion: 56 Resp: 426
Ion Ratio Lower Upper
56 100
55 164.8 56.1 84.1#





#16

Acetone

Concen: 2.898 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD064188.D

Acq: 11 Nov 2019 20:08

Instrument :

MSVOA_D

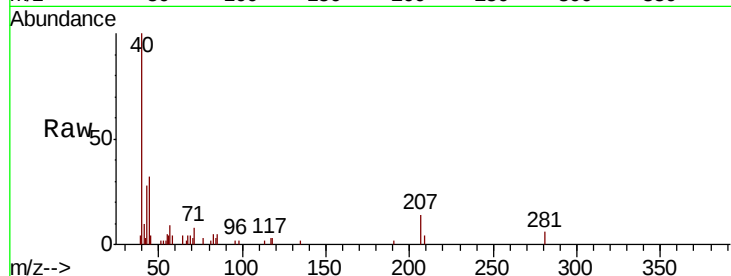
ClientSampled :

Tot Ion: 43 Resp: 3850

Ion Ratio Lower Upper

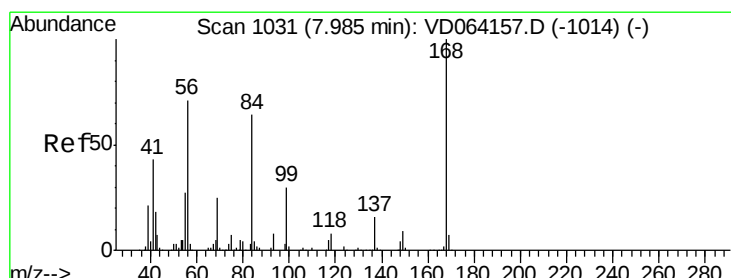
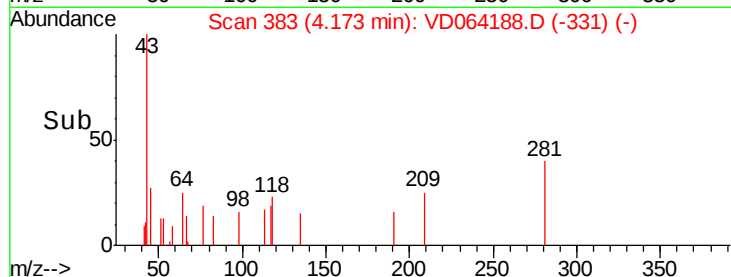
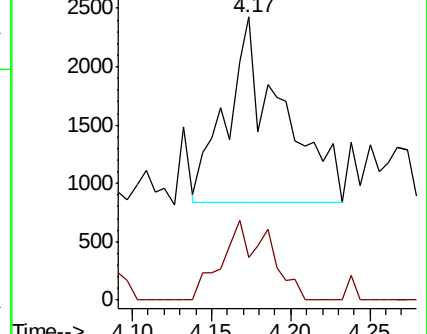
43 100

58 23.1 24.1 36.1#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#31

Cyclohexane

Concen: 1.437 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064188.D

Acq: 11 Nov 2019 20:08

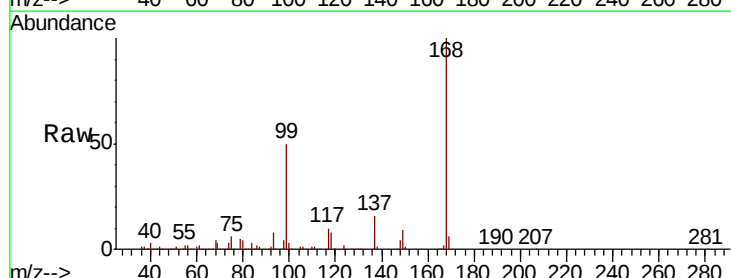
Tgt Ion: 56 Resp: 15820

Ion Ratio Lower Upper

56 100

69 148.8 28.2 42.4#

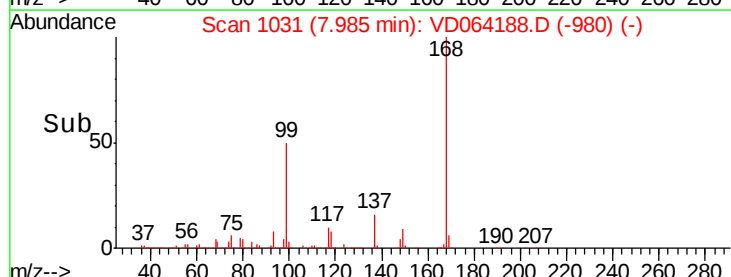
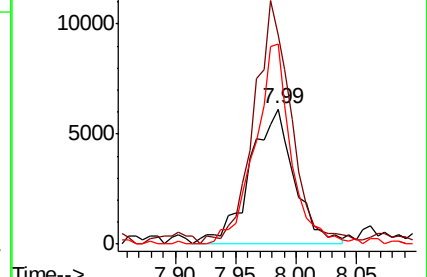
84 148.5 71.8 107.6#

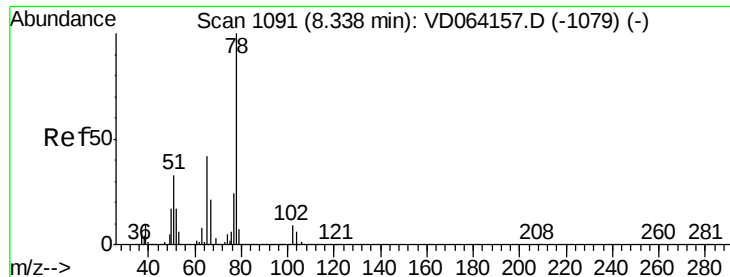


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

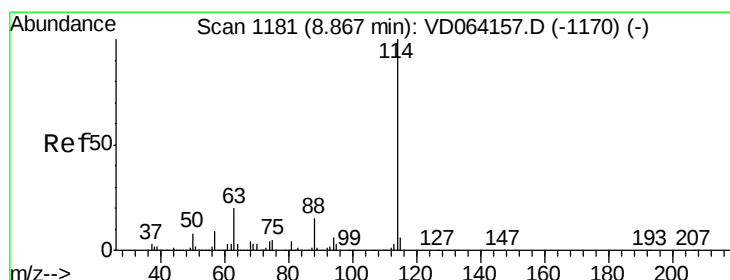
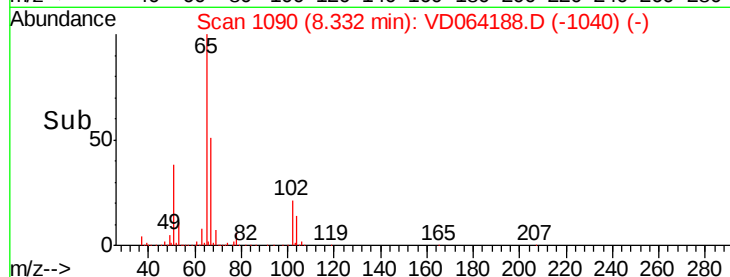
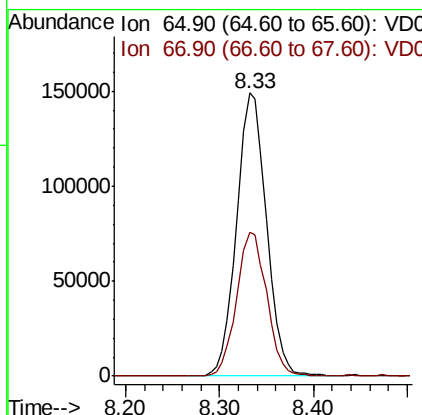
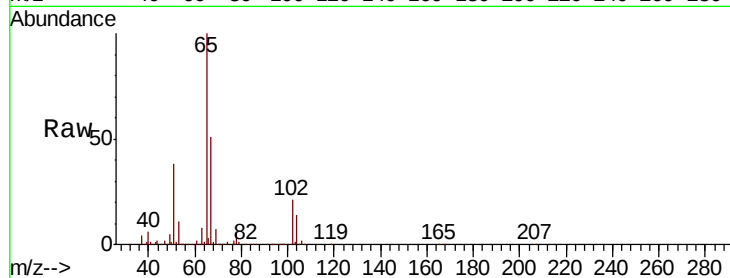




#33
 1,2-Dichloroethane-d4
 Concen: 58.631 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064188.D
 Acq: 11 Nov 2019 20:08

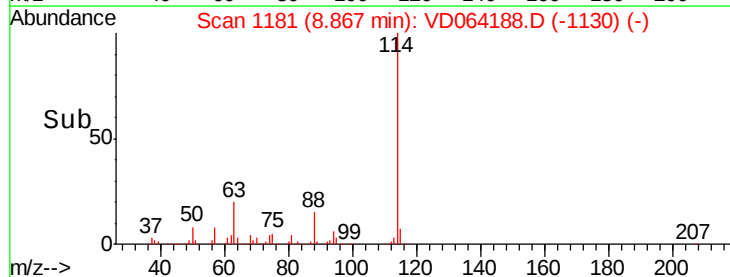
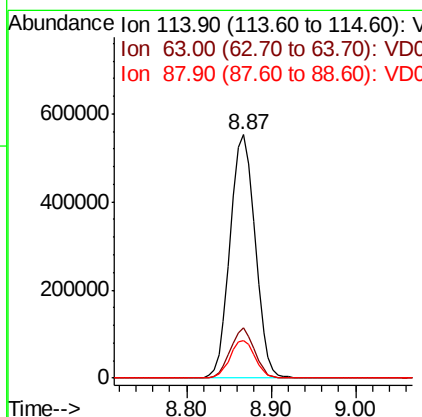
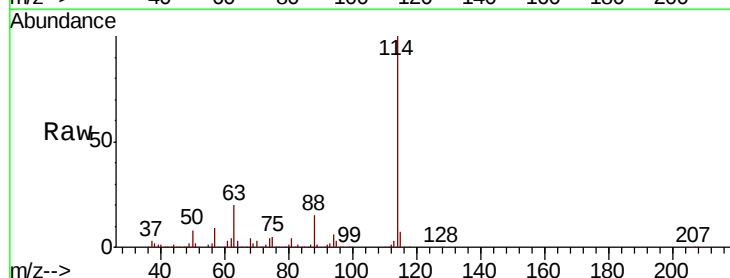
Instrument :
 MSVOA_D
 ClientSampleId :

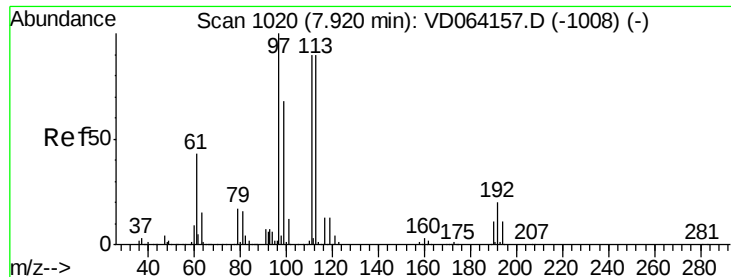
Tot Ion: 65 Resp: 328805
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 104.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064188.D
 Acq: 11 Nov 2019 20:08

Tgt Ion: 114 Resp: 1131290
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.0
 88 15.4 0.0 30.2

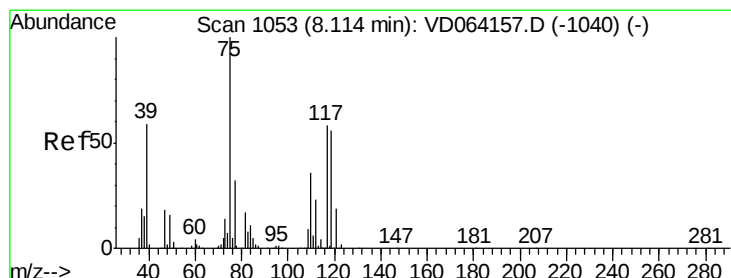
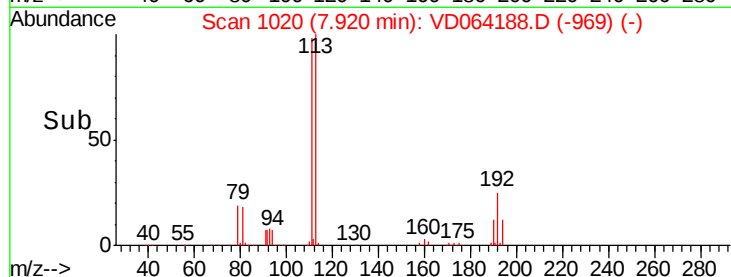
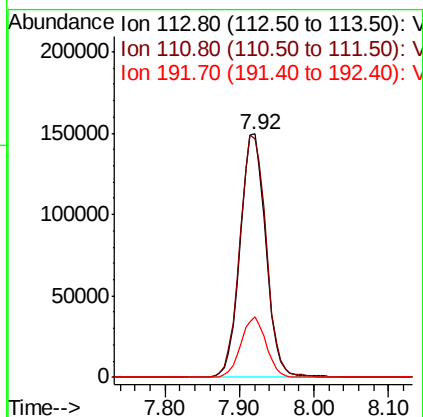
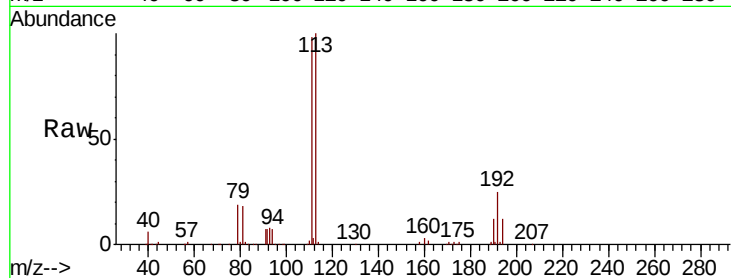




#35
 Dibromofluoromethane
 Concen: 54.911 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064188.D
 Acq: 11 Nov 2019 20:08

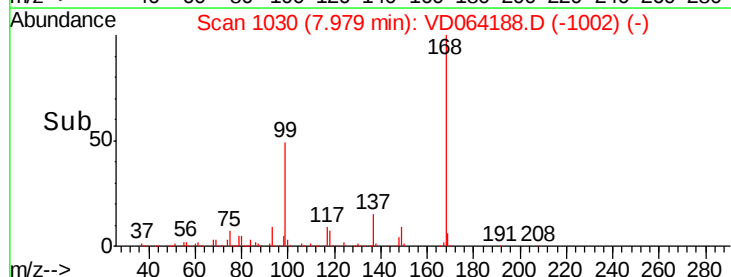
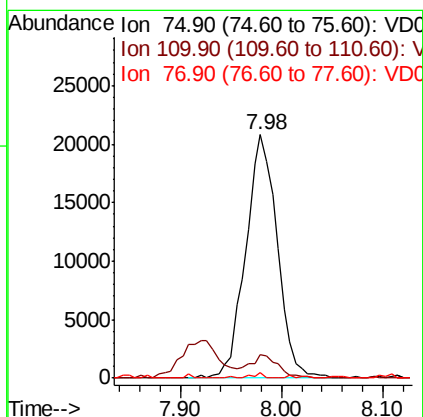
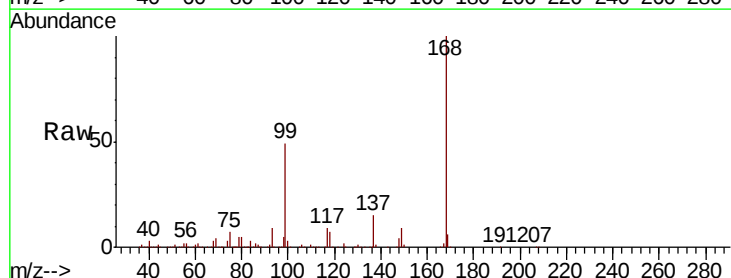
Instrument :
 MSVOA_D
 ClientSampleId :

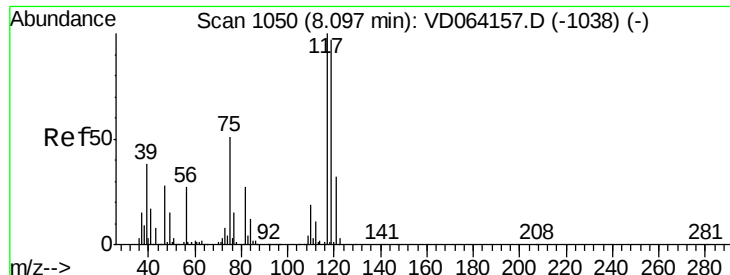
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.5	122.3
192	24.2	18.8	28.2



#36
 1,1-Dichloropropene
 Concen: 4.317 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064188.D
 Acq: 11 Nov 2019 20:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.3	54.9#
77	0.0	25.0	37.6#

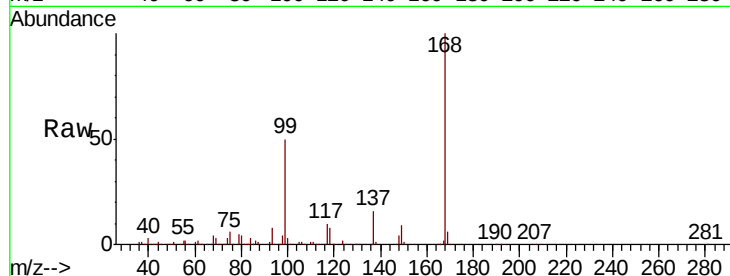




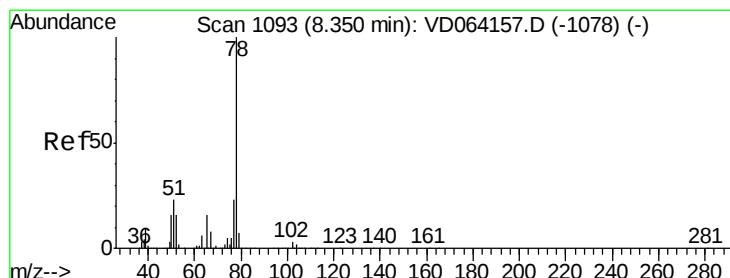
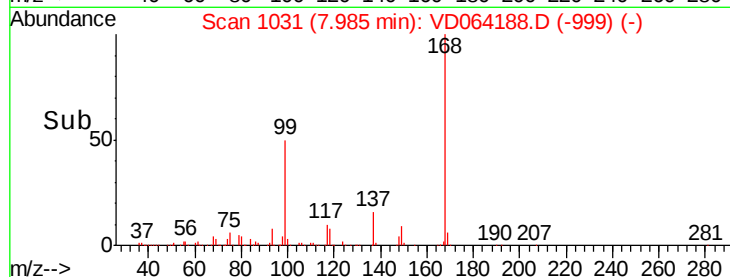
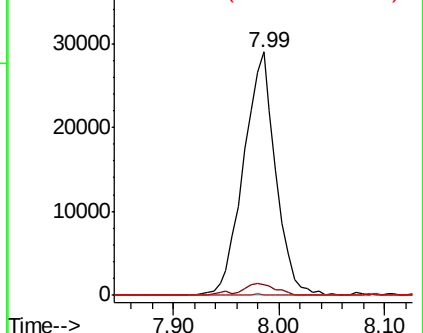
#38
Carbon Tetrachloride
Concen: 5.469 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD064188.D
Acq: 11 Nov 2019 20:08

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:117 Resp: 61098
Ion Ratio Lower Upper
117 100
119 4.1 77.2 115.8#
121 0.0 25.5 38.3#

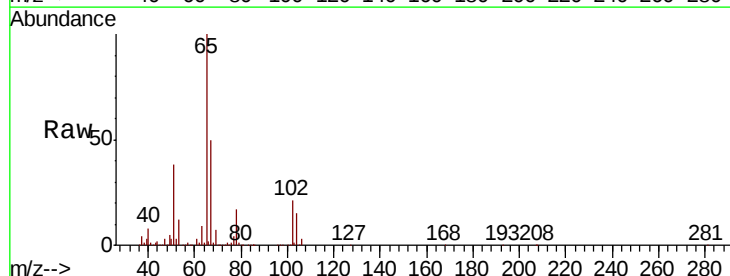


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

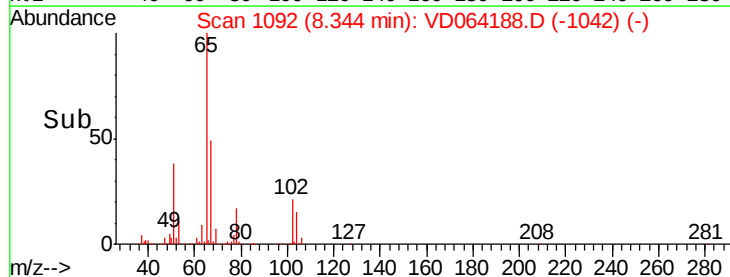
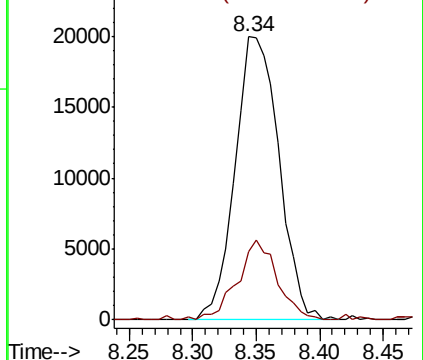


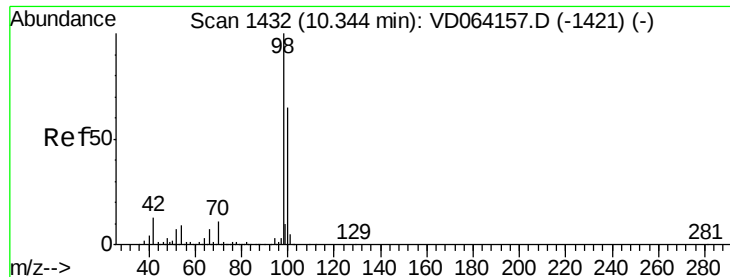
#40
Benzene
Concen: 1.680 ug/l
RT: 8.34 min Scan# 1092
Delta R.T. -0.01 min
Lab File: VD064188.D
Acq: 11 Nov 2019 20:08

Tgt Ion: 78 Resp: 47934
Ion Ratio Lower Upper
78 100
77 24.0 18.6 28.0



Abundance Ion 78.00 (77.70 to 78.70): VDC
Ion 77.00 (76.70 to 77.70): VDC





#50

Toluene-d8

Concen: 56.050 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064188.D

Acq: 11 Nov 2019 20:08

Instrument :

MSVOA_D

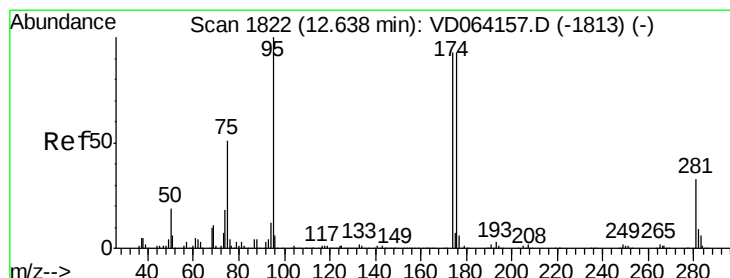
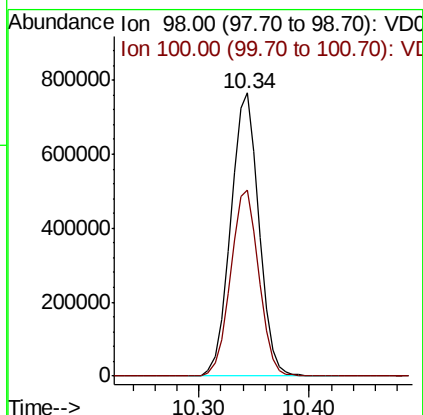
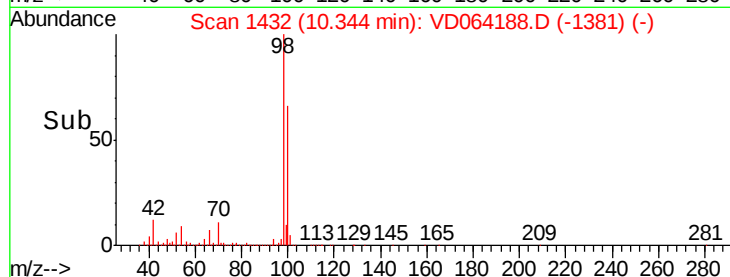
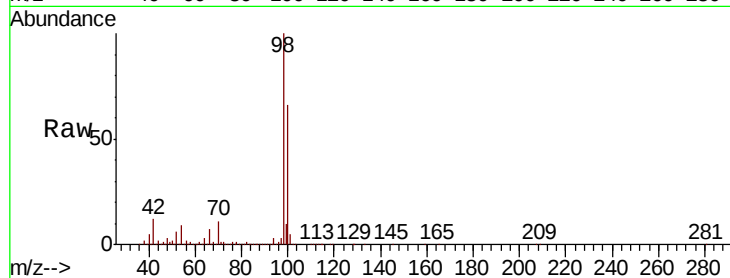
ClientSampleId :

Tot Ion: 98 Resp: 1373065

Ion Ratio Lower Upper

98 100

100 66.1 52.6 78.8



#62

4-Bromofluorobenzene

Concen: 63.324 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064188.D

Acq: 11 Nov 2019 20:08

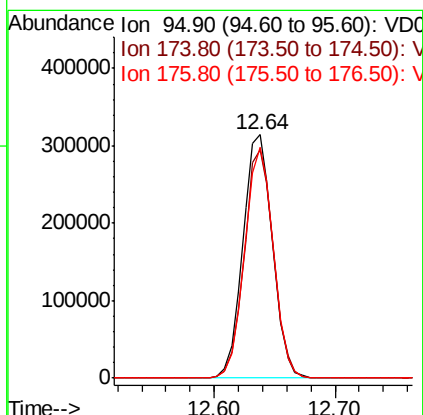
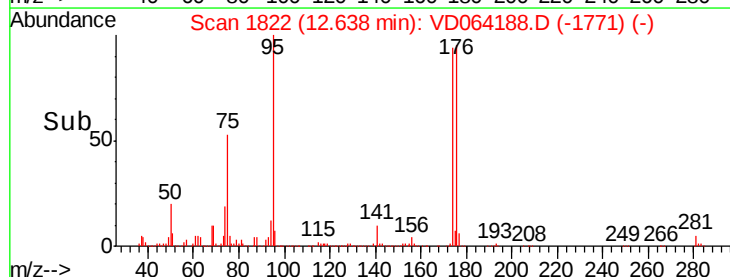
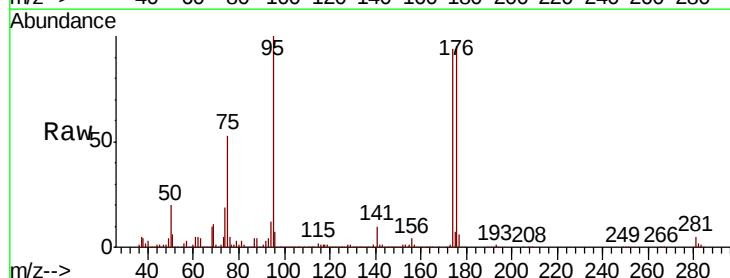
Tgt Ion: 95 Resp: 537215

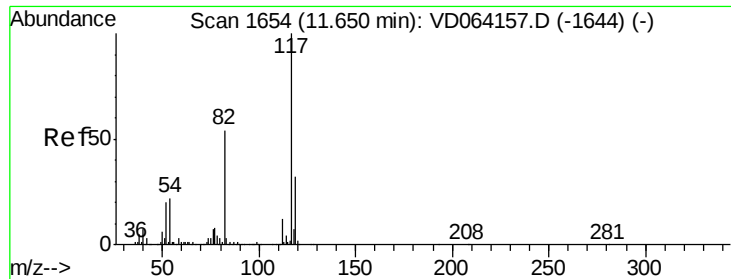
Ion Ratio Lower Upper

95 100

174 92.4 0.0 183.6

176 92.0 0.0 180.2

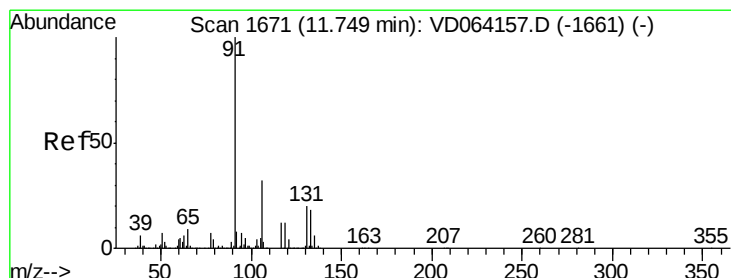
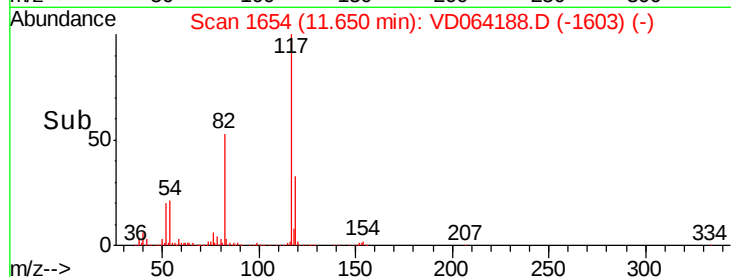
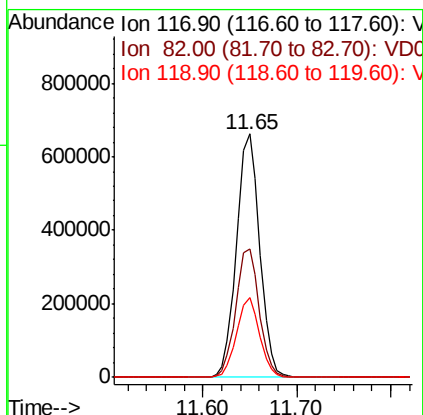
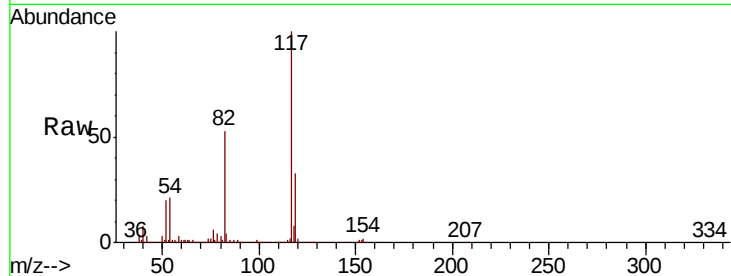




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064188.D
Acq: 11 Nov 2019 20:08

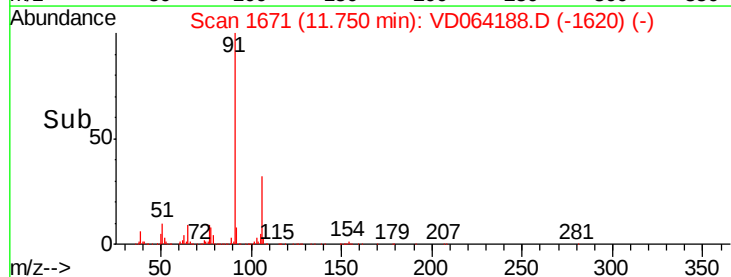
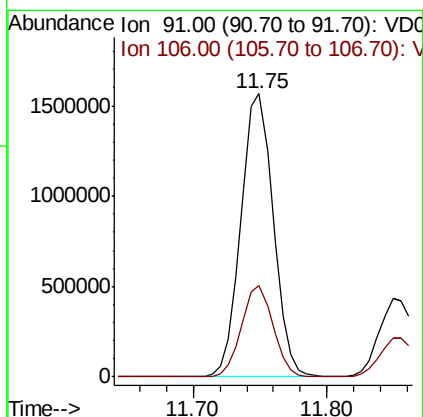
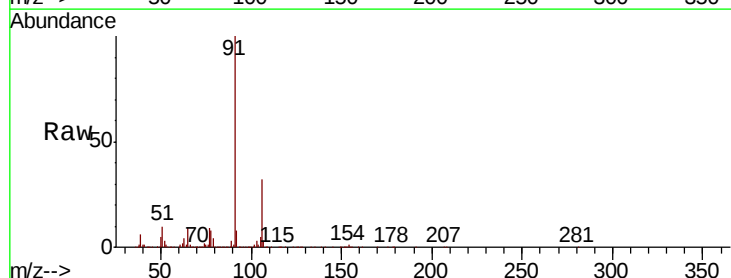
Instrument :
MSVOA_D
ClientSampled :

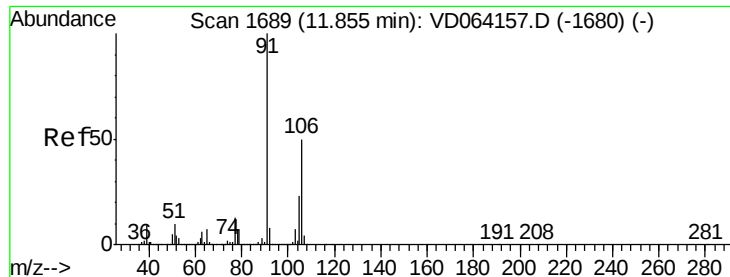
Tot Ion:117 Resp: 1136785
Ion Ratio Lower Upper
117 100
82 52.5 42.8 64.2
119 32.7 25.6 38.4



#67
Ethyl Benzene
Concen: 62.950 ug/l
RT: 11.75 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VD064188.D
Acq: 11 Nov 2019 20:08

Tgt Ion: 91 Resp: 2632209
Ion Ratio Lower Upper
91 100
106 32.2 25.5 38.3

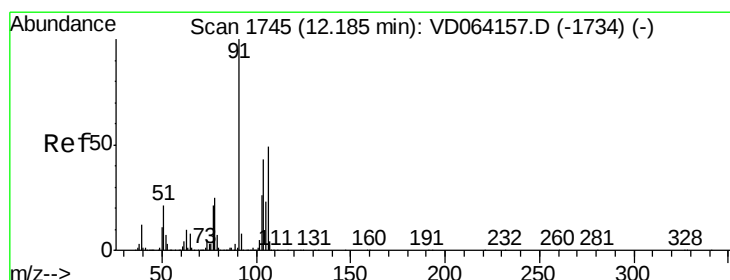
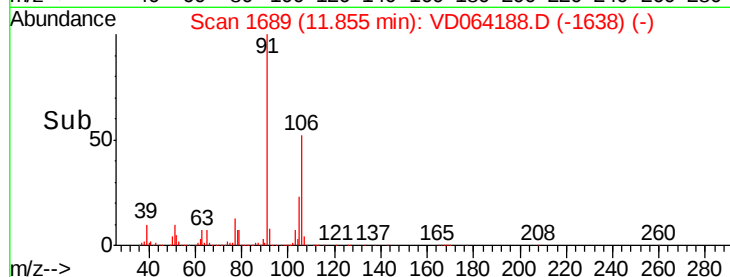
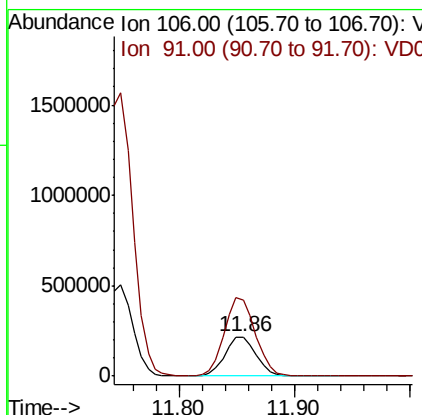
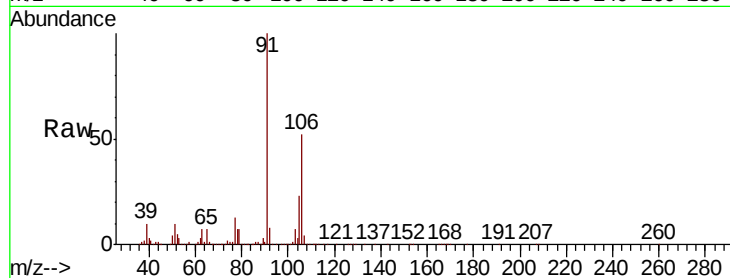




#68
m/p-Xvlenes
Concen: 25.529 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD064188.D
Acq: 11 Nov 2019 20:08

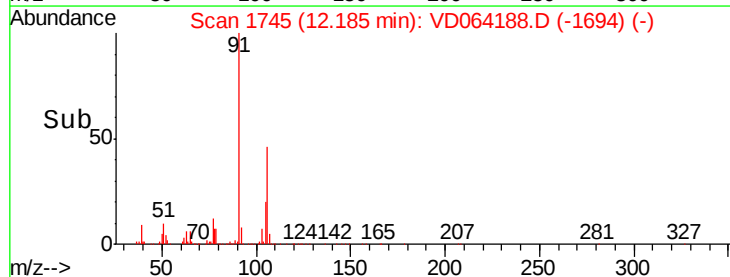
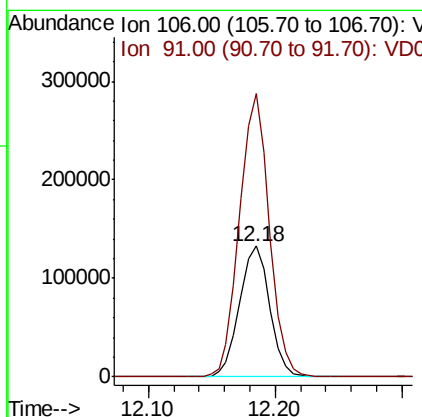
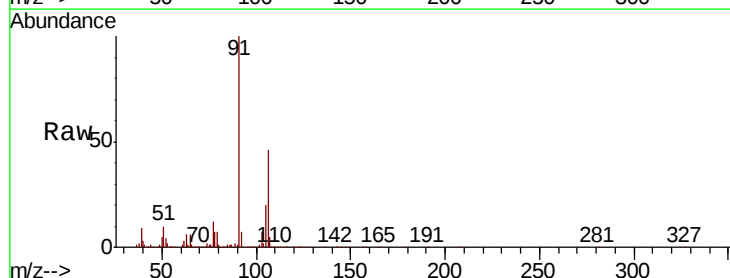
Instrument :
MSVOA_D
ClientSampled :

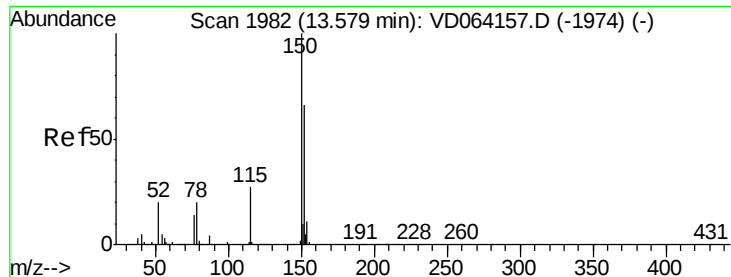
Tot Ion:106 Resp: 409169
Ion Ratio Lower Upper
106 100
91 197.0 160.3 240.5



#69
o-Xylene
Concen: 14.730 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064188.D
Acq: 11 Nov 2019 20:08

Tgt Ion:106 Resp: 218950
Ion Ratio Lower Upper
106 100
91 213.0 105.1 315.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD064188.D

Acq: 11 Nov 2019 20:08

Instrument :

MSVOA_D

ClientSampleId :

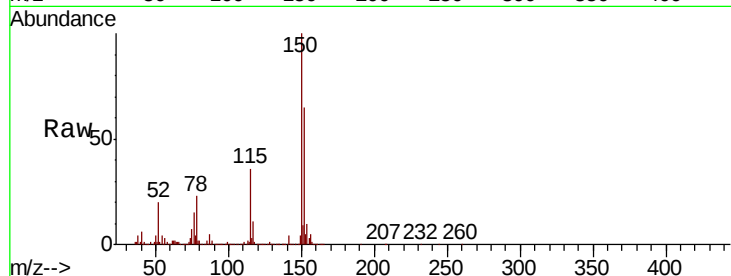
Tot Ion:152 Resp: 609402

Ion Ratio Lower Upper

152 100

115 58.3 27.4 82.2

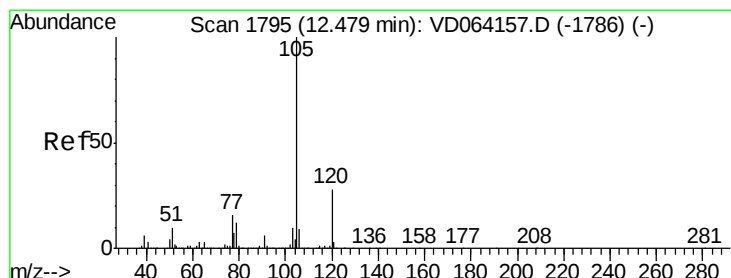
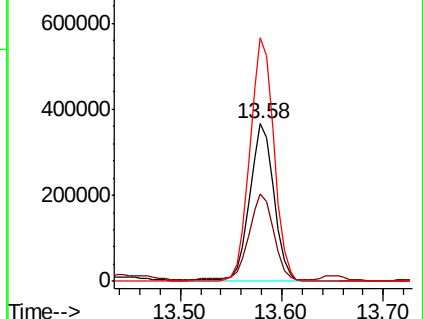
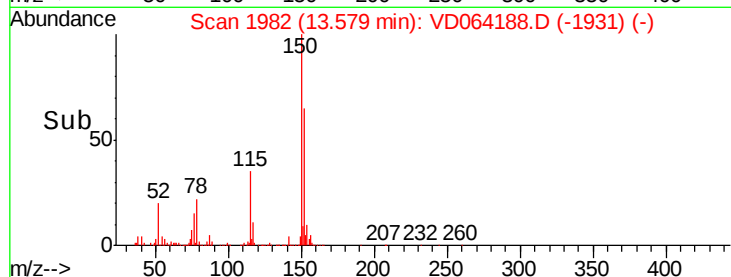
150 151.9 0.0 351.6



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: 4.854 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD064188.D

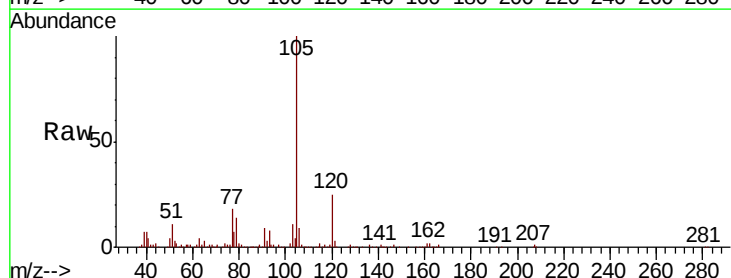
Acq: 11 Nov 2019 20:08

Tgt Ion:105 Resp: 217129

Ion Ratio Lower Upper

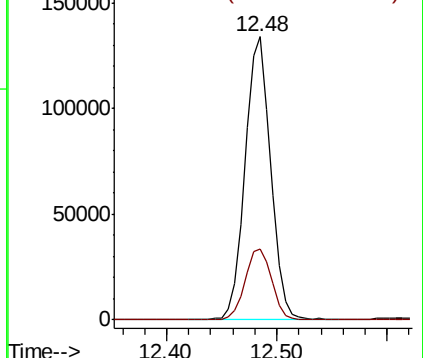
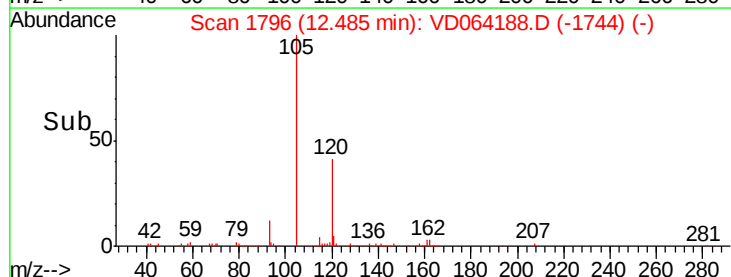
105 100

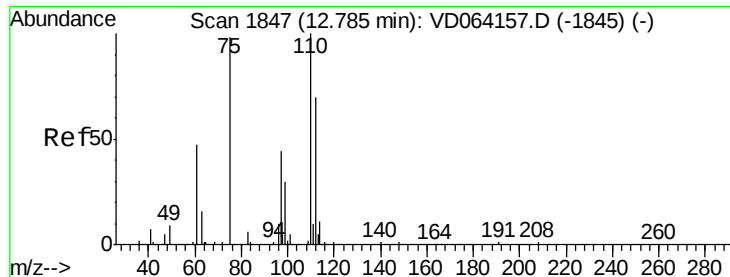
120 26.4 13.6 40.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 2.489 ug/l

RT: 12.88 min Scan# 1864

Delta R.T. 0.10 min

Lab File: VD064188.D

Acq: 11 Nov 2019 20:08

Instrument :

MSVOA_D

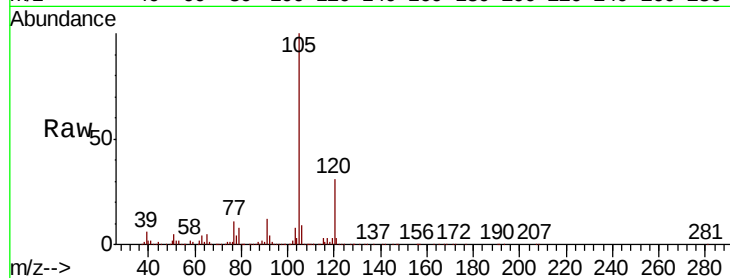
ClientSampleId :

Tot Ion: 75 Resp: 12218

Ion Ratio Lower Upper

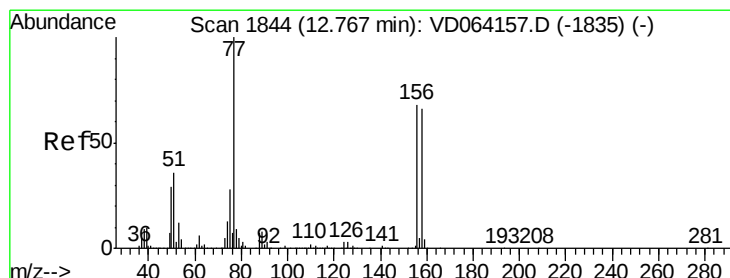
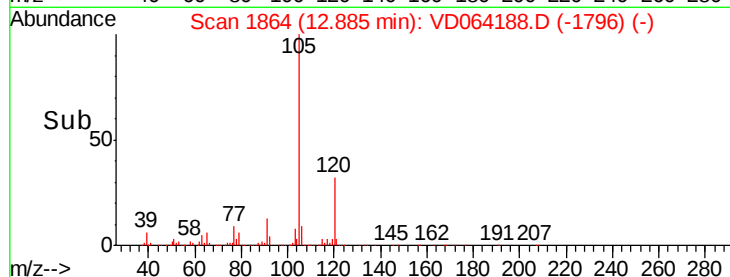
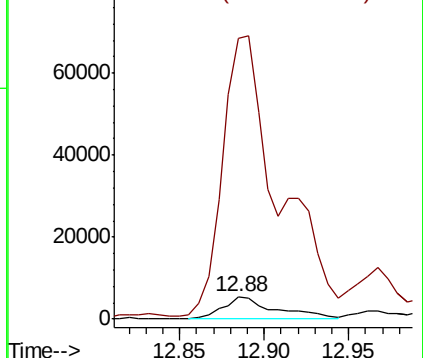
75 100

77 975.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#77

Bromobenzene

Concen: 4.888 ug/l

RT: 12.59 min Scan# 1814

Delta R.T. -0.18 min

Lab File: VD064188.D

Acq: 11 Nov 2019 20:08

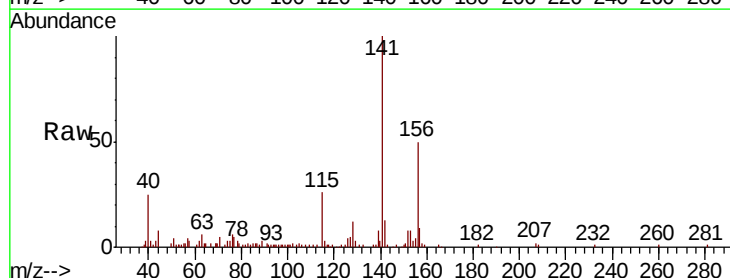
Tgt Ion: 156 Resp: 53119

Ion Ratio Lower Upper

156 100

77 7.0 81.2 243.4#

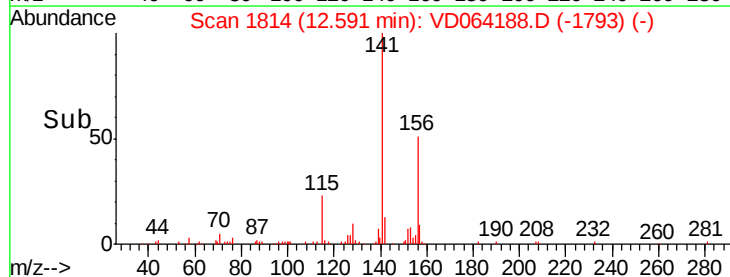
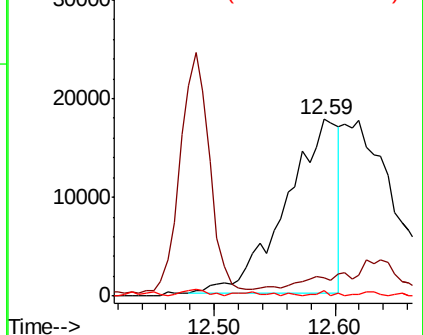
158 0.8 48.4 145.2#

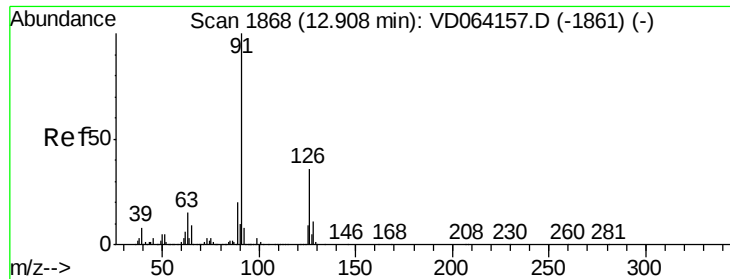


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V





#79

2-Chlorotoluene

Concen: 5.428 ug/l

RT: 12.89 min Scan# 1865

Delta R.T. -0.02 min

Lab File: VD064188.D

Acq: 11 Nov 2019 20:08

Instrument :

MSVOA_D

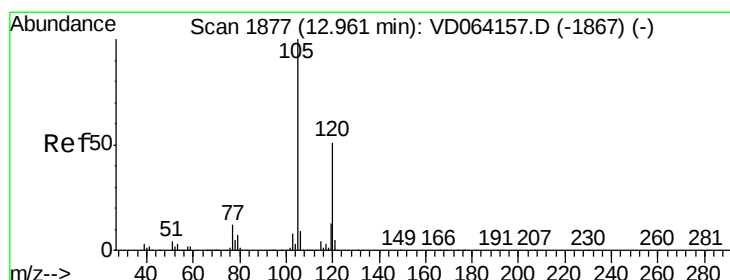
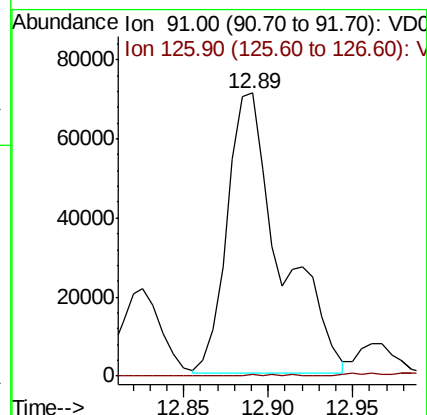
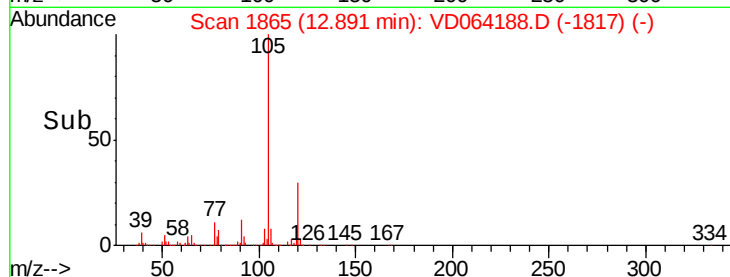
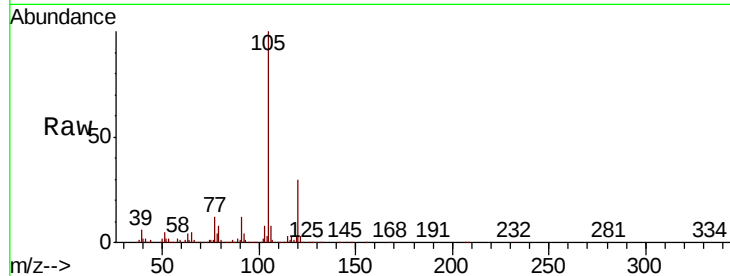
ClientSampled :

Tot Ion: 91 Resp: 156615

Ion Ratio Lower Upper

91 100

126 0.0 17.7 53.1#



#80

1,3,5-Trimethylbenzene

Concen: 2.894 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VD064188.D

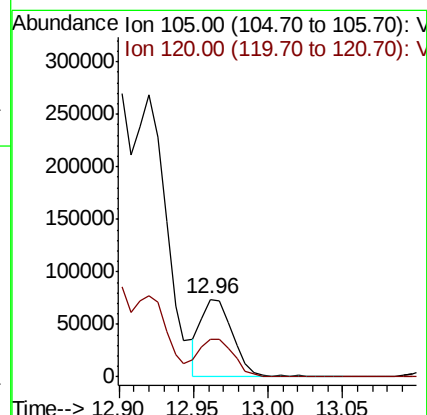
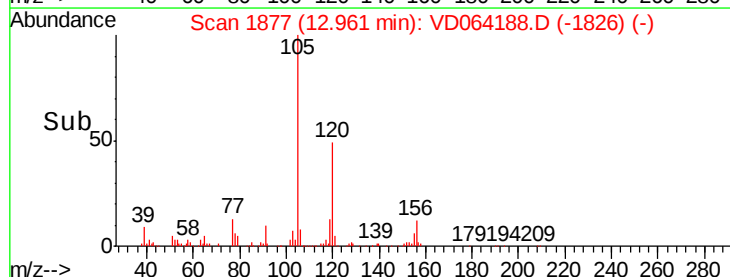
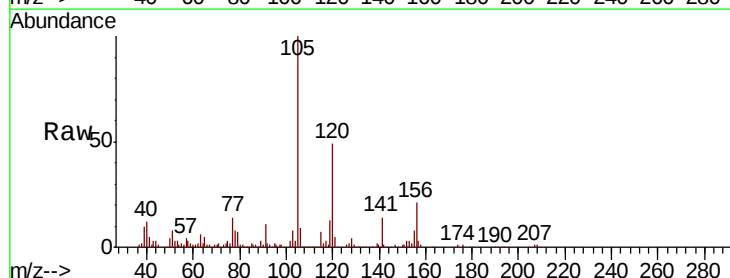
Acq: 11 Nov 2019 20:08

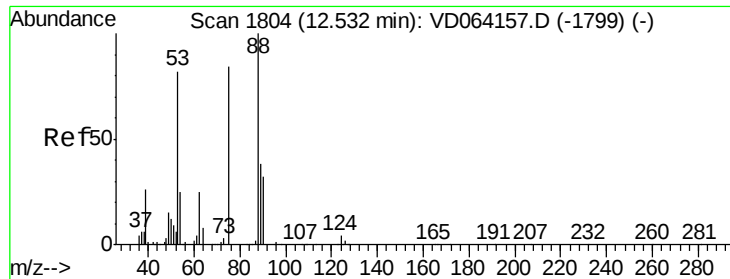
Tgt Ion: 105 Resp: 106384

Ion Ratio Lower Upper

105 100

120 55.6 25.4 76.4





#81

trans-1,4-Dichloro-2-butene

Concen: 114.728 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064188.D

Acq: 11 Nov 2019 20:08

Instrument :

MSVOA_D

ClientSampled :

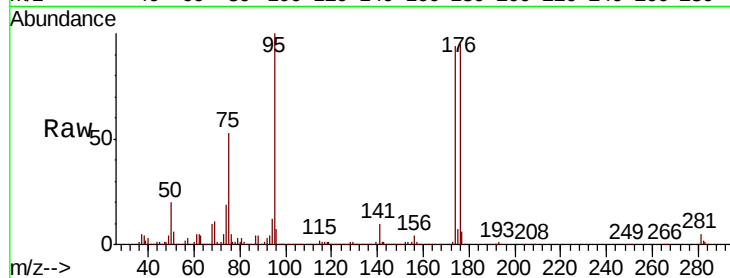
Tot Ion: 75 Resp: 283504

Ion Ratio Lower Upper

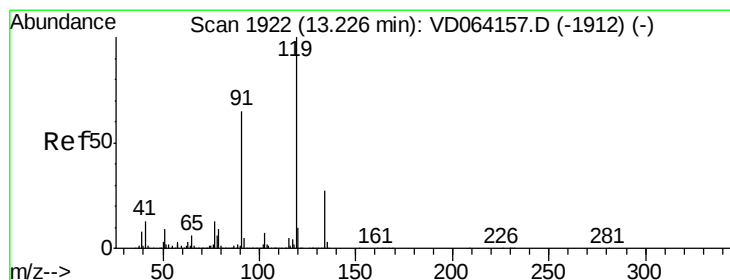
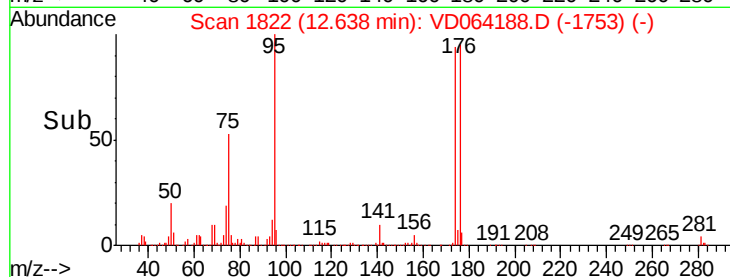
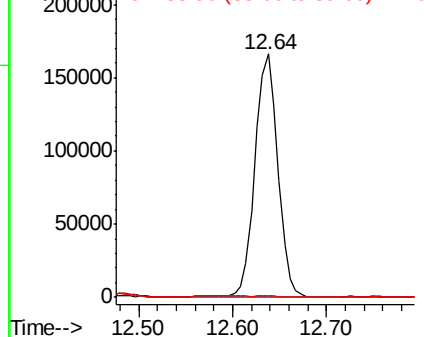
75 100

53 0.3 79.4 119.0#

89 0.6 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 88.90 (88.60 to 89.60): VDC



#83

tert-Butylbenzene

Concen: 1.168 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.05 min

Lab File: VD064188.D

Acq: 11 Nov 2019 20:08

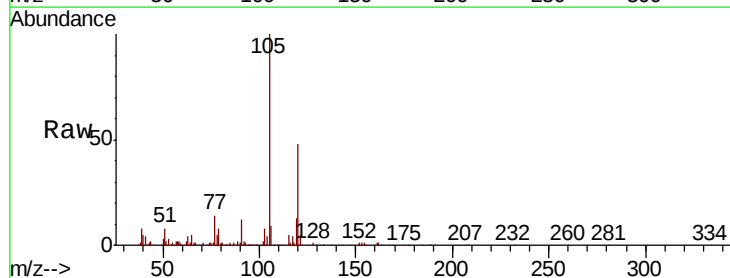
Tgt Ion: 119 Resp: 37862

Ion Ratio Lower Upper

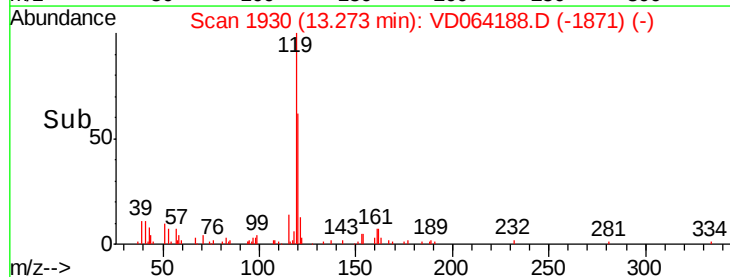
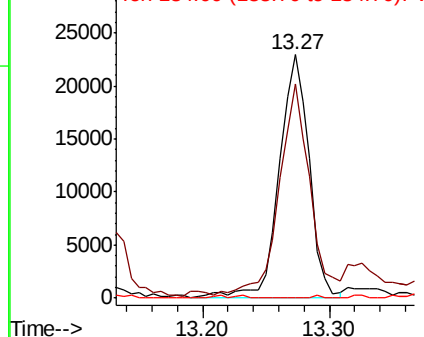
119 100

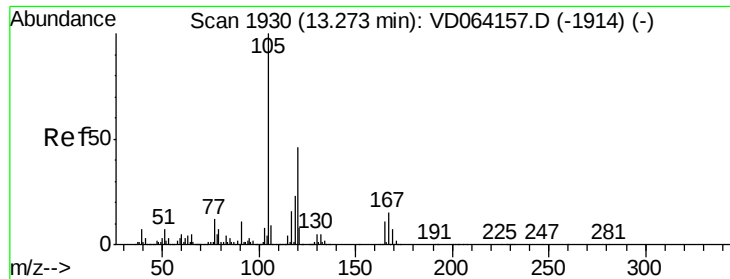
91 88.1 31.8 95.4

134 0.0 13.7 41.0#



Abundance Ion 119.00 (118.70 to 119.70): VDC
Ion 91.00 (90.70 to 91.70): VDC
Ion 134.00 (133.70 to 134.70): VDC

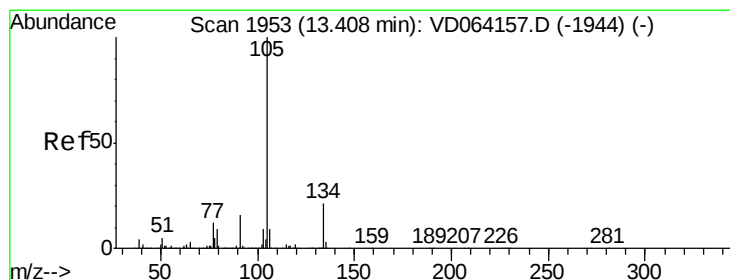
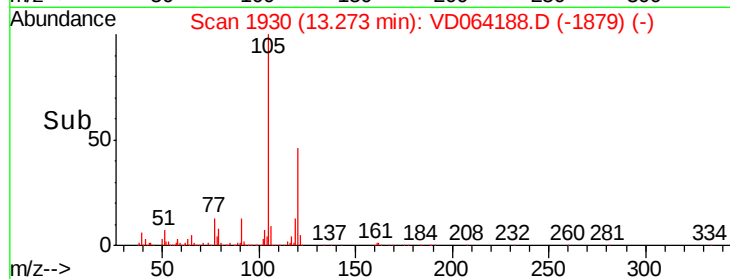
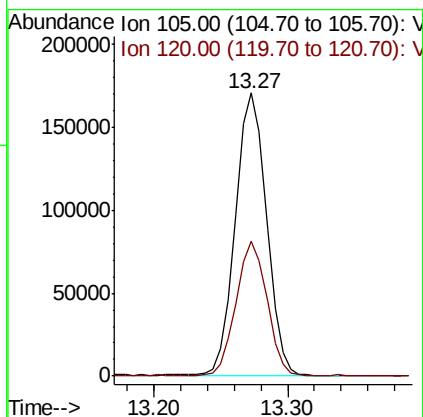
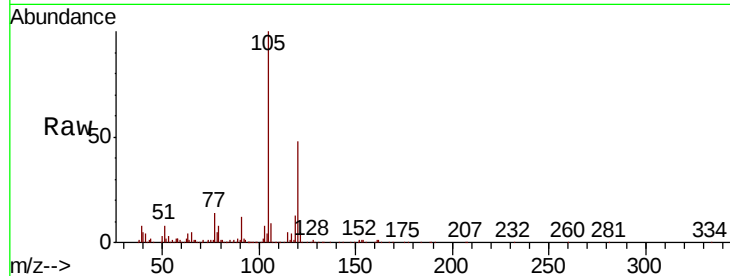




#84
 1,2,4-Trimethylbenzene
 Concen: 7.633 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VD064188.D
 Acq: 11 Nov 2019 20:08

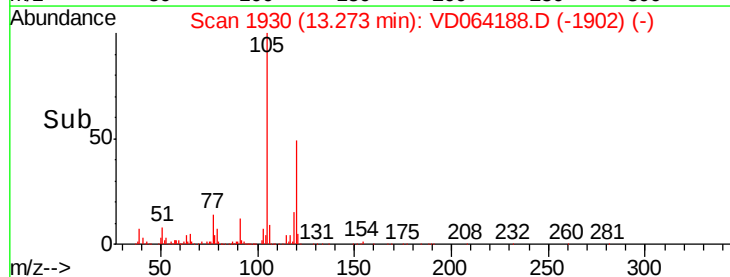
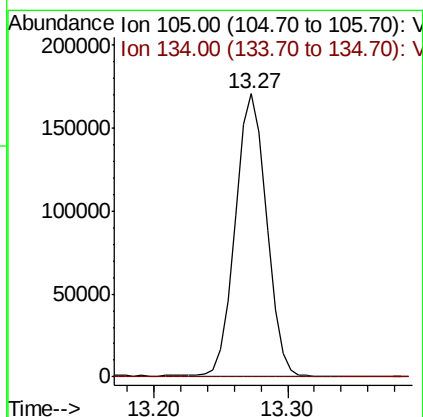
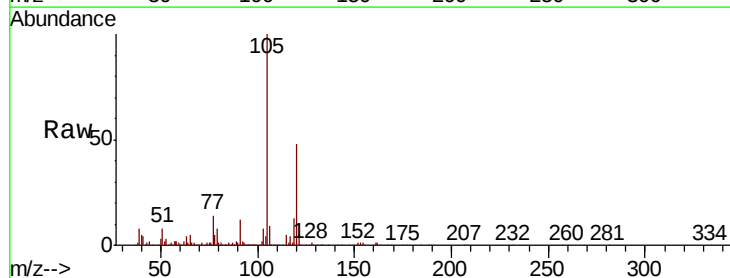
Instrument :
 MSVOA_D
 ClientSampleId :

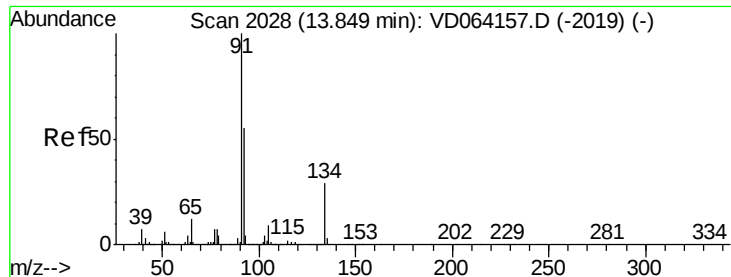
Tot Ion:105 Resp: 276976
 Ion Ratio Lower Upper
 105 100
 120 47.0 23.3 69.8



#85
 sec-Butylbenzene
 Concen: 6.363 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. -0.14 min
 Lab File: VD064188.D
 Acq: 11 Nov 2019 20:08

Tgt Ion:105 Resp: 276976
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.7 31.9#

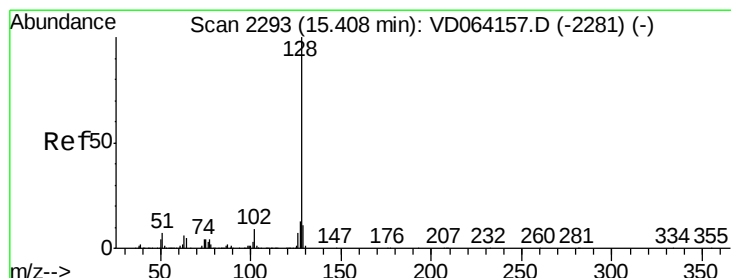
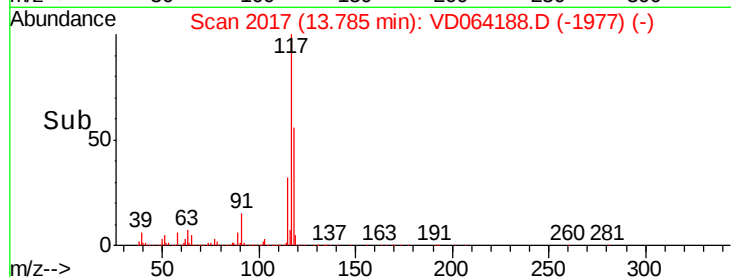
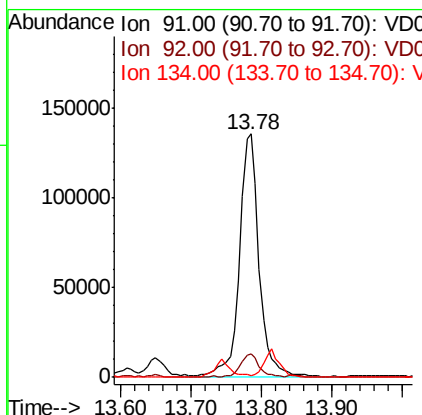
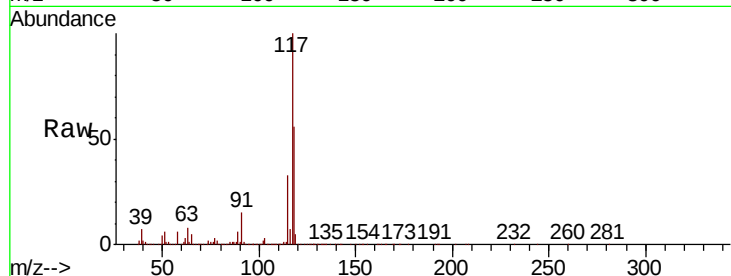




#89
n-Butylbenzene
Concen: 7.029 ug/l
RT: 13.78 min Scan# 2017
Delta R.T. -0.06 min
Lab File: VD064188.D
Acq: 11 Nov 2019 20:08

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
91	100		
92	9.4	27.3	81.8#
134	0.0	14.1	42.4#



#95
Naphthalene
Concen: 68.801 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VD064188.D
Acq: 11 Nov 2019 20:08

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.5	15.7
129	10.9	8.6	13.0

