

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112619\
 Data File : VD064390.D
 Acq On : 26 Nov 2019 18:09
 Operator : VA/SY
 Sample : K6021-04
 Misc : 5.02G/5.00ml/MSVOA D/SOIL
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 27 05:52:23 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	21833	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	33955	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	34425	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	17880	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	13782	76.75	ug/l	0.00
Spiked Amount			Recovery	=	153.50%	
35) Dibromofluoromethane	7.92	113	10843	55.63	ug/l	0.00
Spiked Amount			Recovery	=	111.26%	
50) Toluene-d8	10.34	98	40823	55.52	ug/l	0.00
Spiked Amount			Recovery	=	111.04%	
62) 4-Bromofluorobenzene	12.64	95	13957	54.81	ug/l	0.00
Spiked Amount			Recovery	=	109.62%	

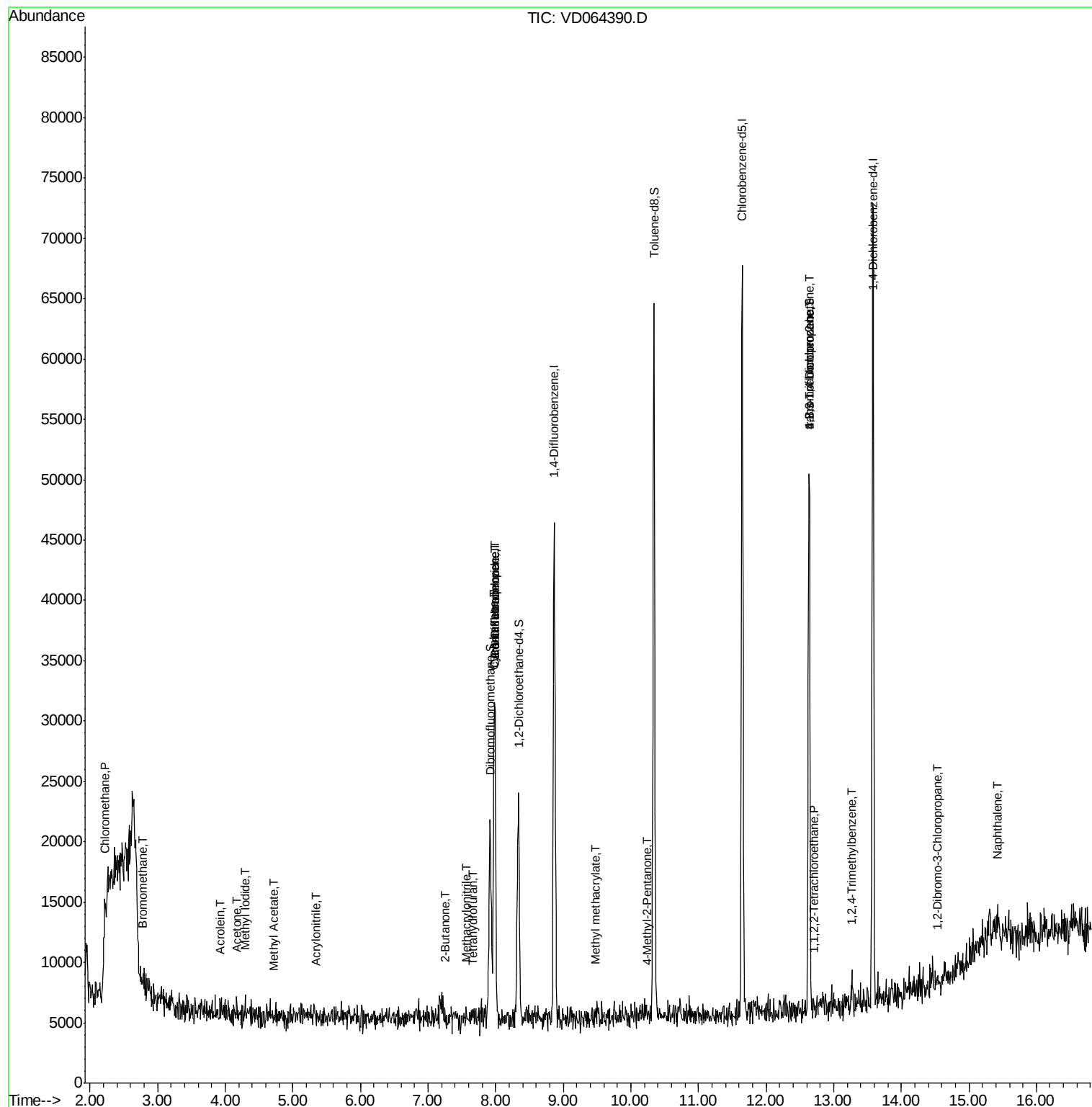
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	752	3.872	ug/l #	75
5) Bromomethane	2.78	94	1003	7.648	ug/l	90
10) Methyl Iodide	4.30	142	152	2.695	ug/l #	41
13) Acrolein	3.92	56	60	5.655	ug/l #	15
15) Acrylonitrile	5.34	53	76	1.925	ug/l #	17
16) Acetone	4.17	43	820	19.277	ug/l #	45
18) Methyl Acetate	4.72	43	134	1.128	ug/l #	53
25) 2-Butanone	7.25	43	55	1.001	ug/l #	49
29) Tetrahydrofuran	7.66	42	56	1.696	ug/l #	35
31) Cyclohexane	7.97	56	382	1.084	ug/l #	12
36) 1,1-Dichloropropene	7.98	75	1699	5.422	ug/l #	41
38) Carbon Tetrachloride	8.00	117	1183	3.528	ug/l #	12
41) Methacrylonitrile	7.56	41	205	2.469	ug/l #	25
48) Methyl methacrylate	9.47	41	357	2.682	ug/l #	25
51) 4-Methyl-2-Pentanone	10.24	43	277	2.122	ug/l #	37
75) 1,1,2,2-Tetrachloroethane	12.71	83	243	1.229	ug/l #	26
76) 1,2,3-Trichloropropane	12.64	75	7122	49.452	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	7122	98.231	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.27	105	1404	1.319	ug/l	86
92) 1,2-Dibromo-3-Chloropropan	14.54	75	57	1.612	ug/l #	1
95) Naphthalene	15.43	128	1337	2.111	ug/l #	69

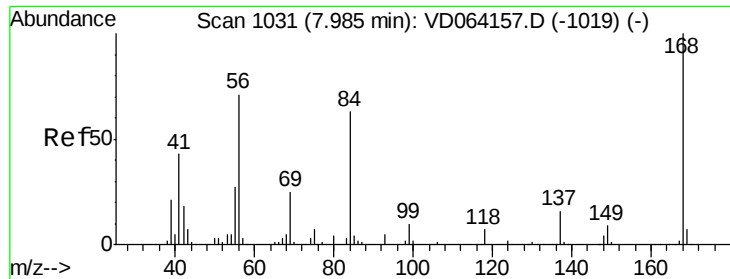
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1031

Delta R.T. -0.00 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

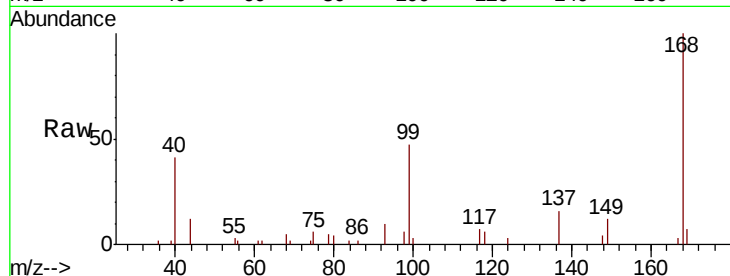
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 21833

Ion Ratio Lower Upper

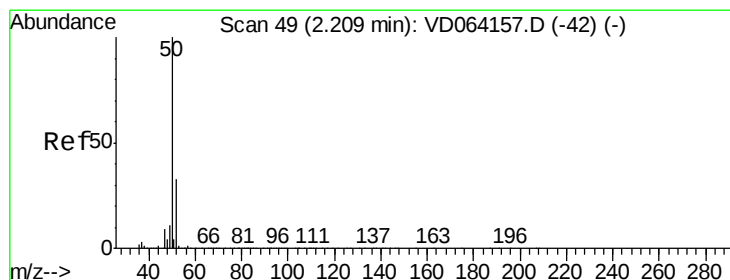
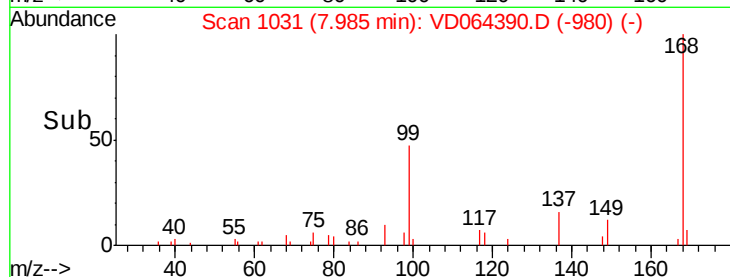
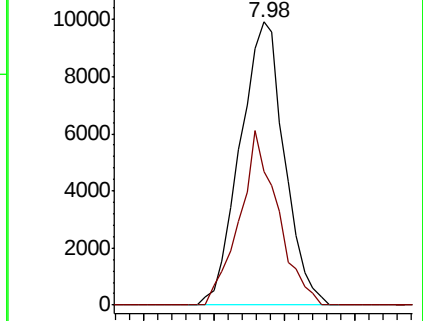
168 100

99 47.3 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 3.872 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VD064390.D

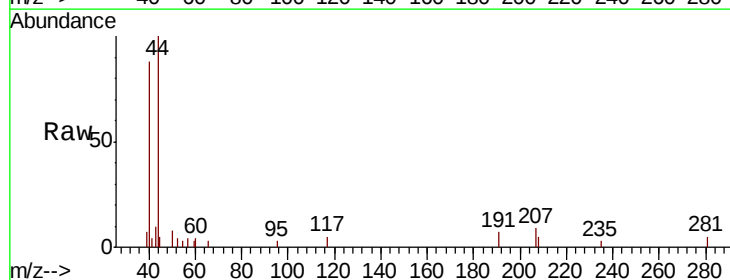
Acq: 26 Nov 2019 18:09

Tgt Ion: 50 Resp: 752

Ion Ratio Lower Upper

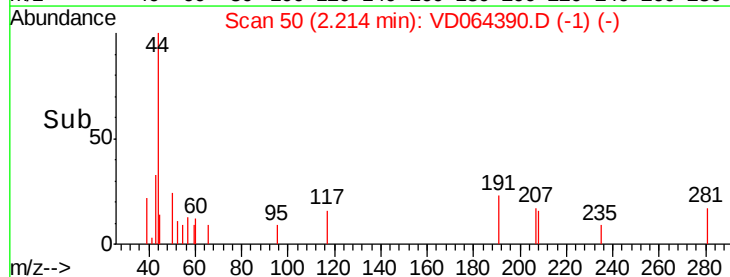
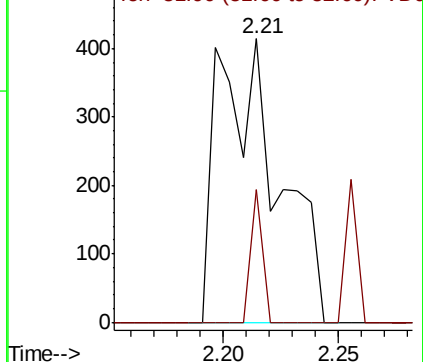
50 100

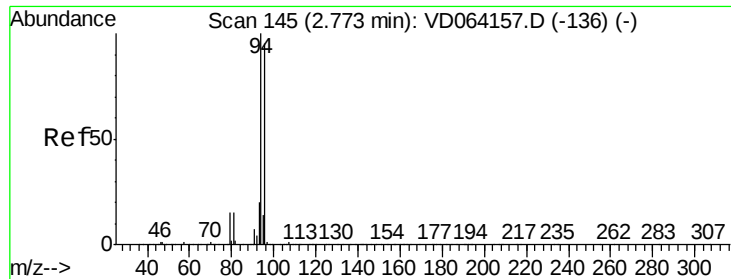
52 46.9 26.2 39.4#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 7.648 ug/l

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

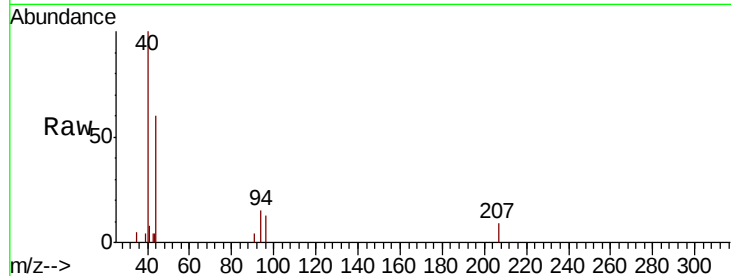
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 94 Resp: 1003

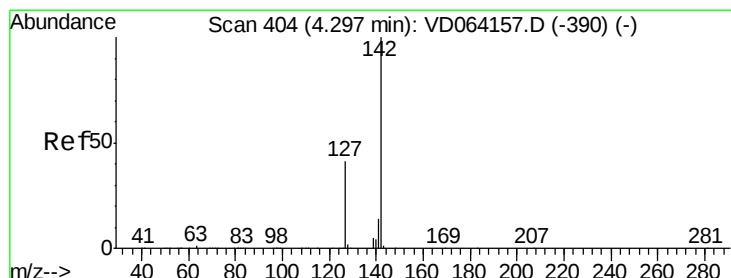
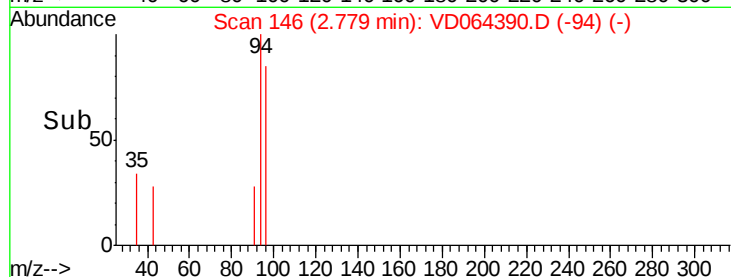
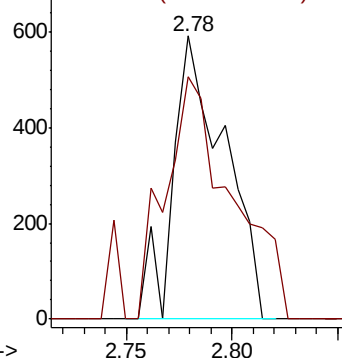
Ion Ratio Lower Upper

94 100

96 85.5 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VDC
Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 2.695 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

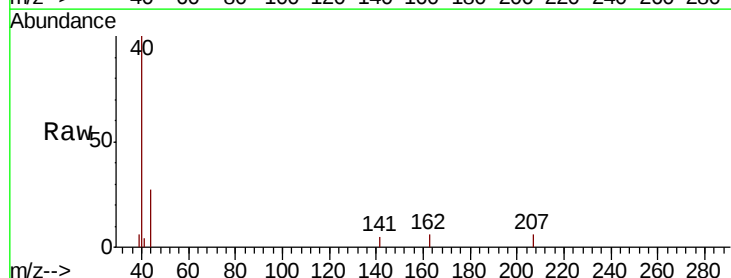
Tgt Ion: 142 Resp: 152

Ion Ratio Lower Upper

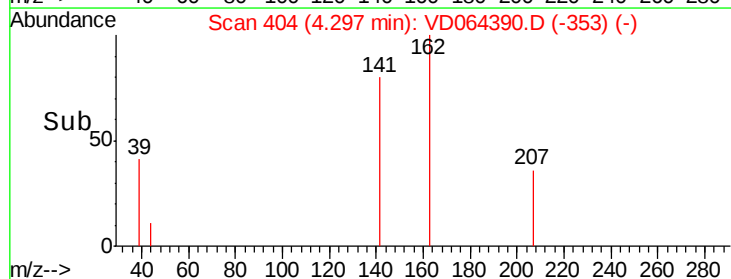
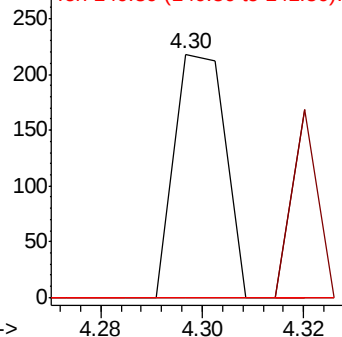
142 100

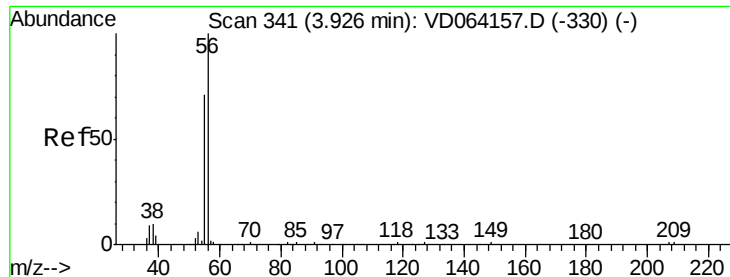
127 0.0 34.4 51.6#

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





#13

Acrolein

Concen: 5.655 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

Instrument :

MSVOA_D

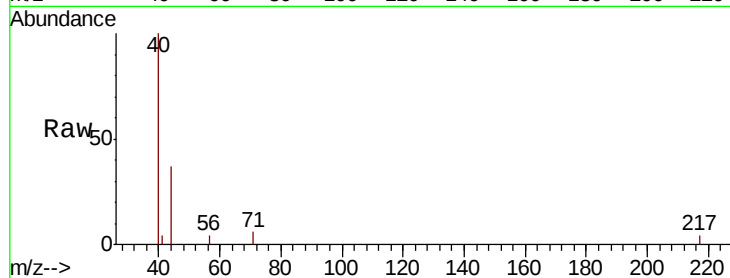
ClientSampleId :

Tot Ion: 56 Resp: 60

Ion Ratio Lower Upper

56 100

55 0.0 56.1 84.1#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.92

150

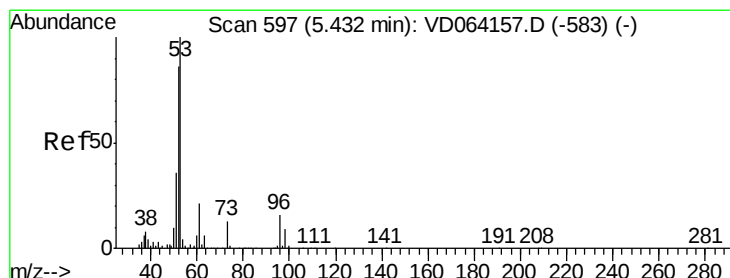
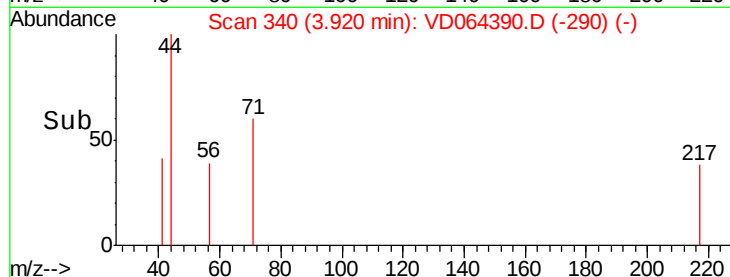
100

50

0

3.90 3.91 3.92 3.93 3.94

Time-->



#15

Acrylonitrile

Concen: 1.925 ug/l

RT: 5.34 min Scan# 582

Delta R.T. -0.09 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

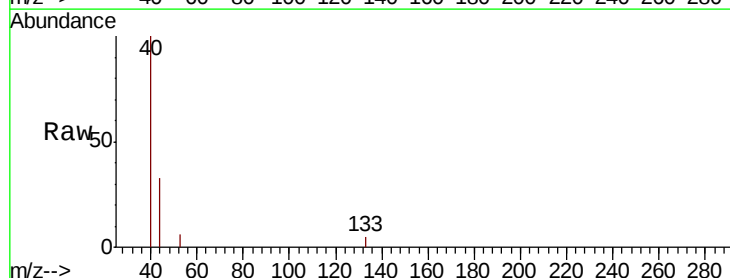
Tgt Ion: 53 Resp: 76

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

51 0.0 30.6 46.0#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC

5.34

250

200

150

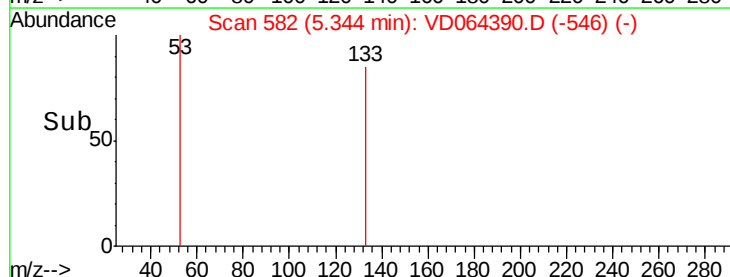
100

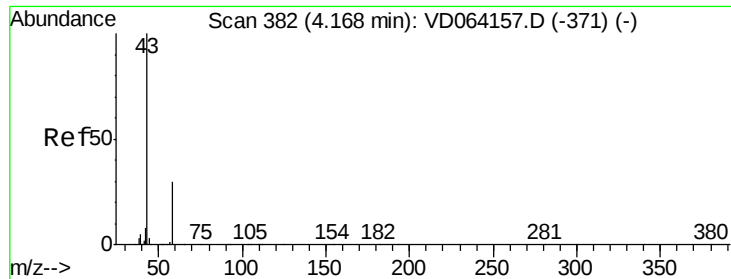
50

0

5.33 5.34 5.35 5.36

Time-->

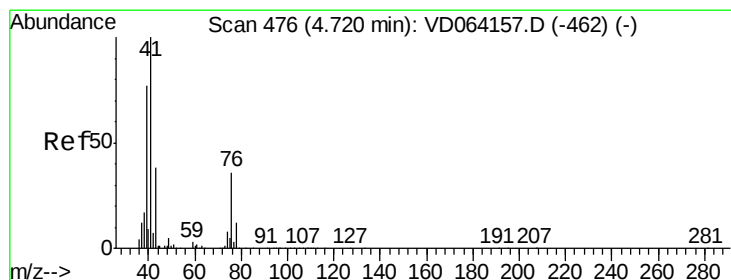
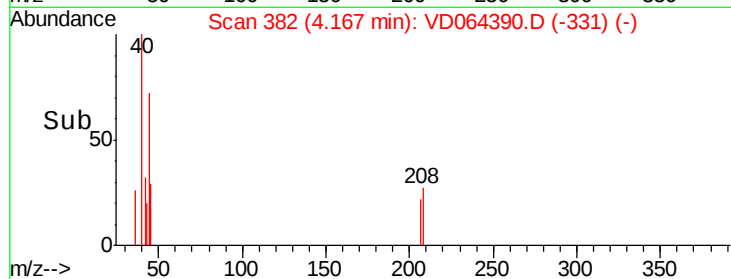
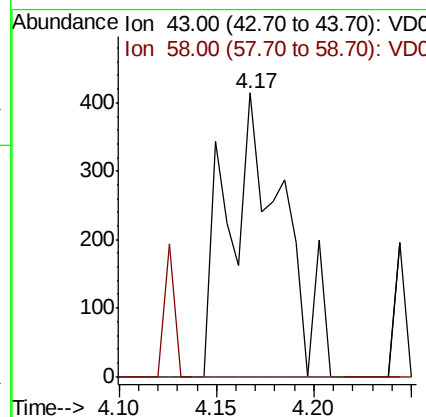
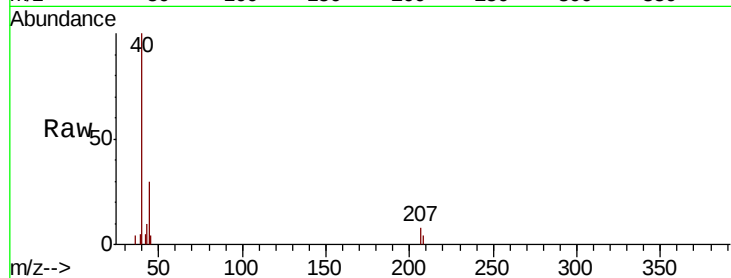




#16
Acetone
Concen: 19.277 ug/l
RT: 4.17 min Scan# 382
Delta R.T. -0.00 min
Lab File: VD064390.D
Acq: 26 Nov 2019 18:09

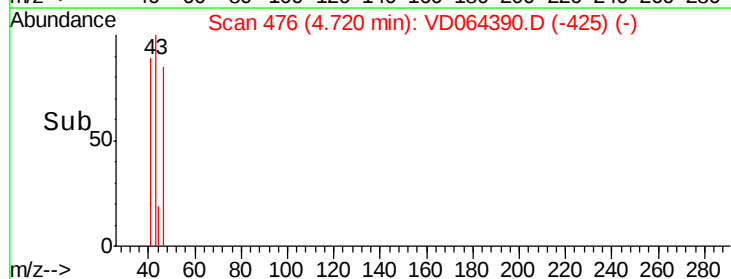
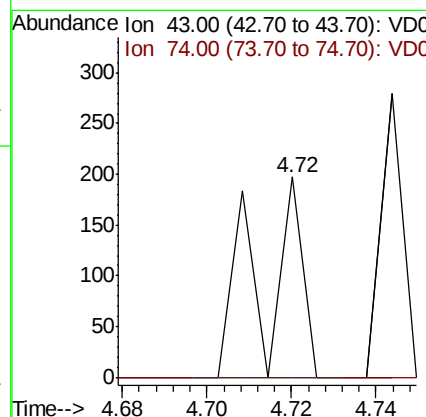
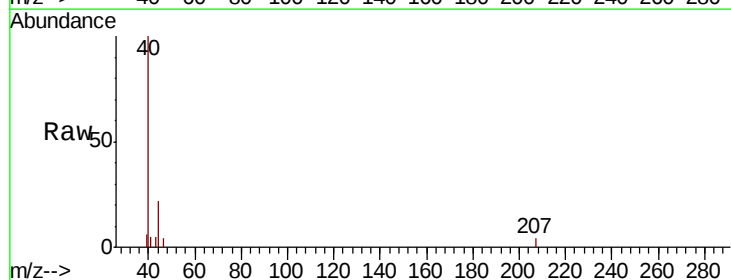
Instrument :
MSVOA_D
ClientSampled :

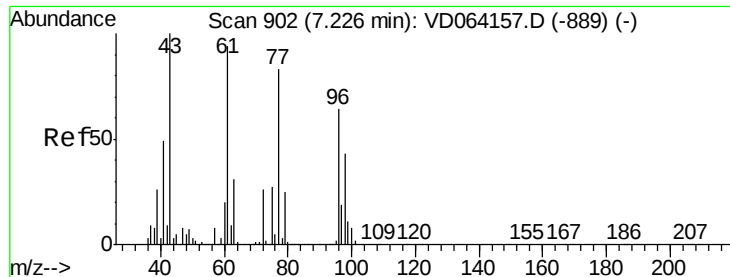
Tot Ion: 43 Resp: 820
Ion Ratio Lower Upper
43 100
58 0.0 24.1 36.1#



#18
Methyl Acetate
Concen: 1.128 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.00 min
Lab File: VD064390.D
Acq: 26 Nov 2019 18:09

Tgt Ion: 43 Resp: 134
Ion Ratio Lower Upper
43 100
74 0.0 18.4 27.6#

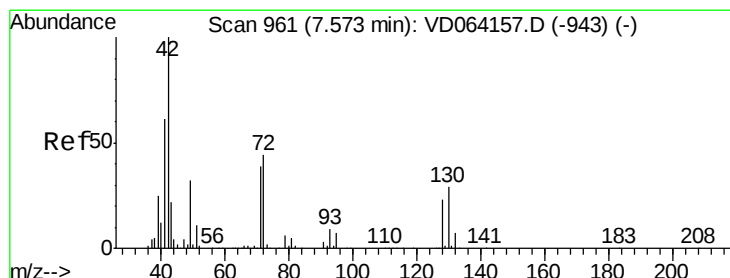
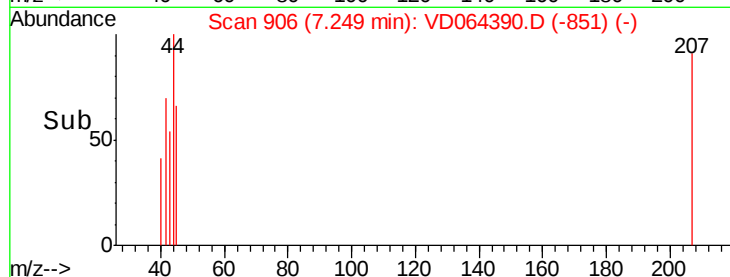
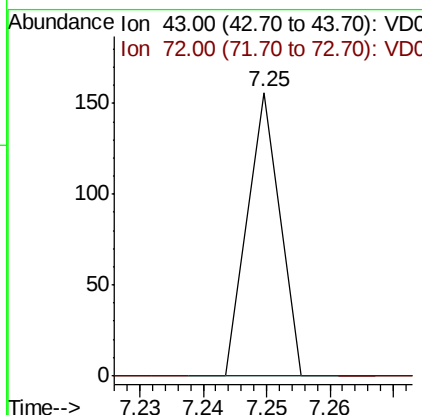
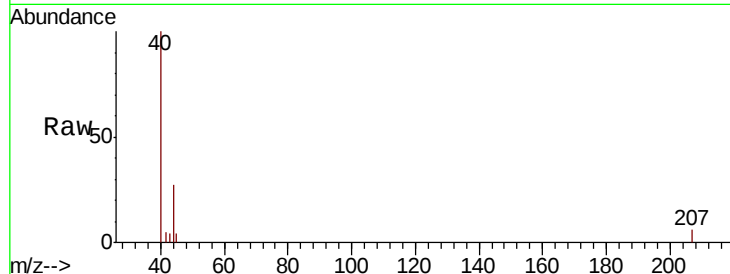




#25
2-Butanone
Concen: 1.001 ug/l
RT: 7.25 min Scan# 906
Delta R.T. 0.02 min
Lab File: VD064390.D
Acq: 26 Nov 2019 18:09

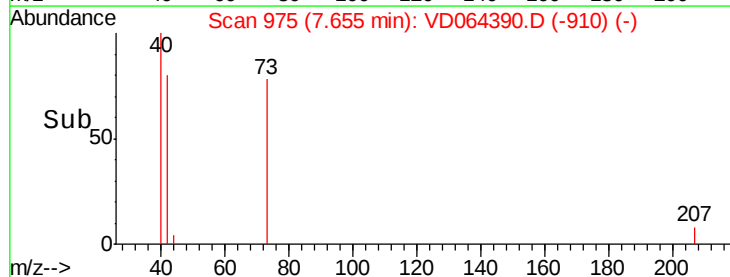
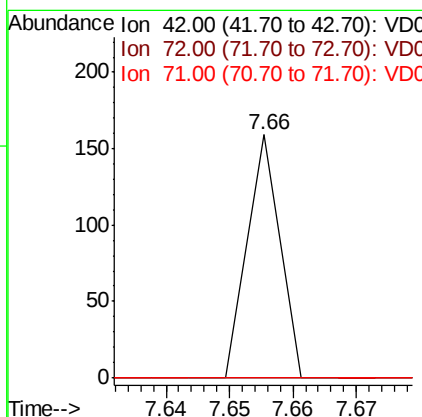
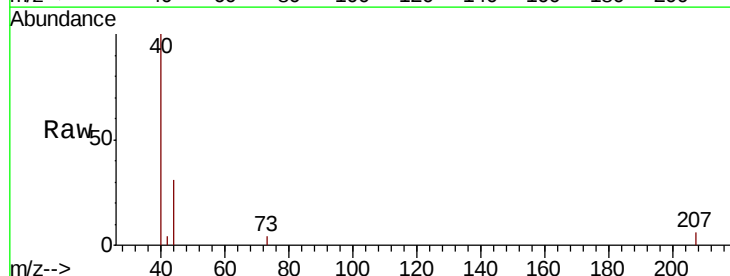
Instrument :
MSVOA_D
ClientSampleId :

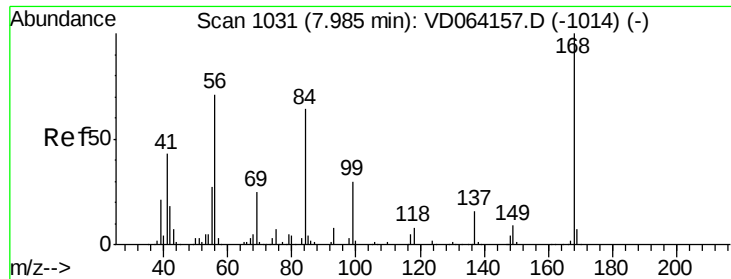
Tot Ion: 43 Resp: 55
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#



#29
Tetrahydrofuran
Concen: 1.696 ug/l
RT: 7.66 min Scan# 975
Delta R.T. 0.08 min
Lab File: VD064390.D
Acq: 26 Nov 2019 18:09

Tgt Ion: 42 Resp: 56
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.2#
71 0.0 31.0 46.4#

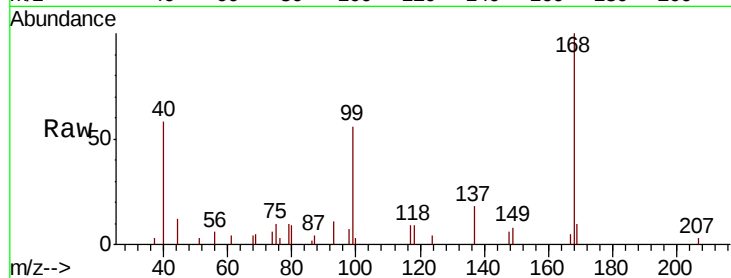




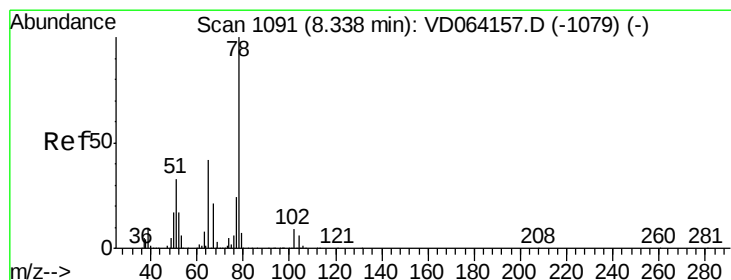
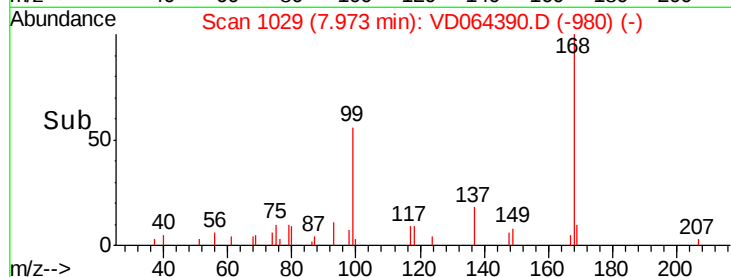
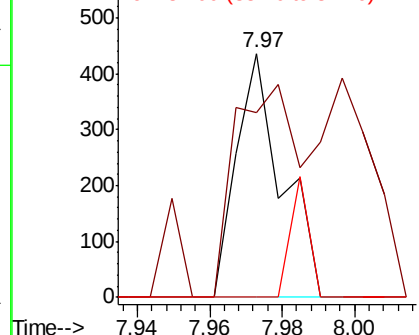
#31
Cyclohexane
Concen: 1.084 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD064390.D
Acq: 26 Nov 2019 18:09

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 382
Ion Ratio Lower Upper
56 100
69 75.9 28.2 42.4#
84 0.0 71.8 107.6#

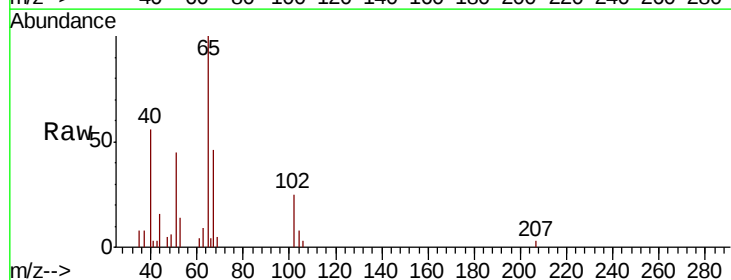


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

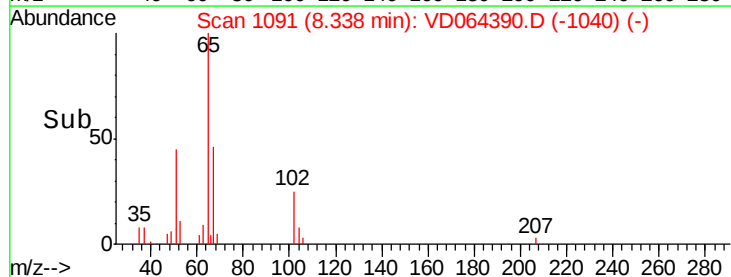
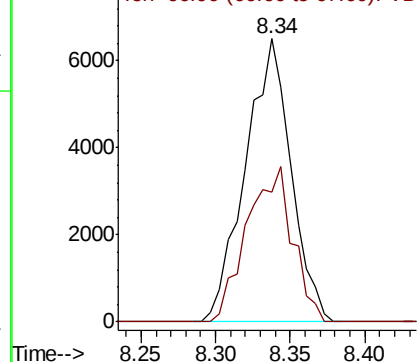


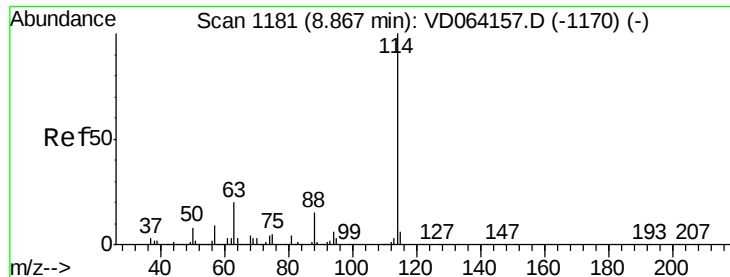
#33
1,2-Dichloroethane-d4
Concen: 76.753 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD064390.D
Acq: 26 Nov 2019 18:09

Tgt Ion: 65 Resp: 13782
Ion Ratio Lower Upper
65 100
67 54.8 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

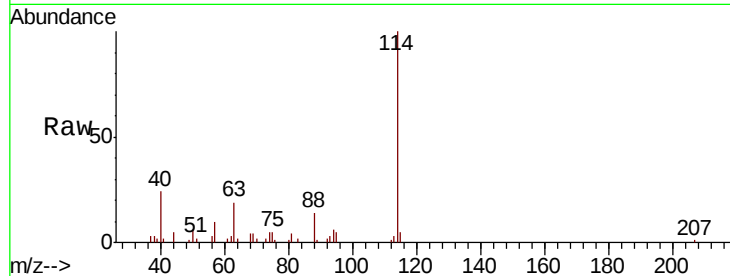




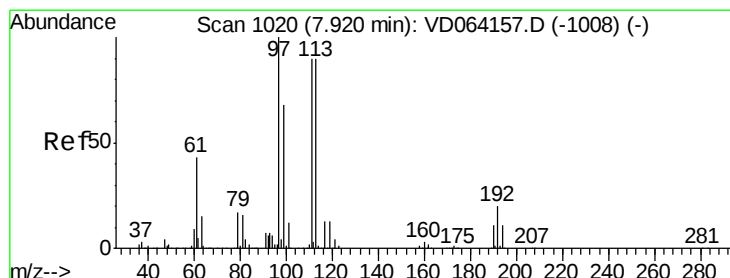
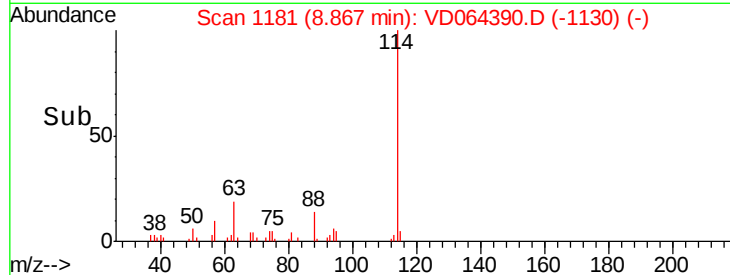
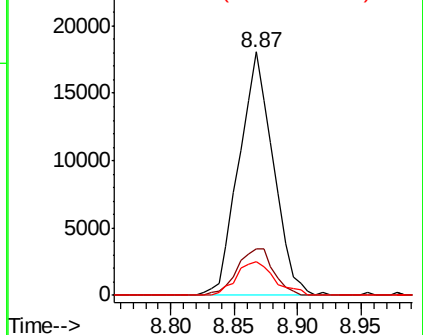
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD064390.D
 Acq: 26 Nov 2019 18:09

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	40.0
88	13.8	0.0	30.2

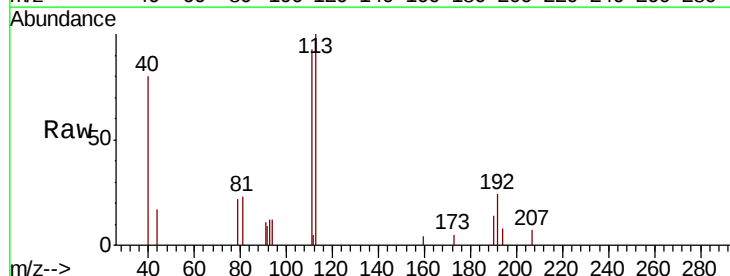


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

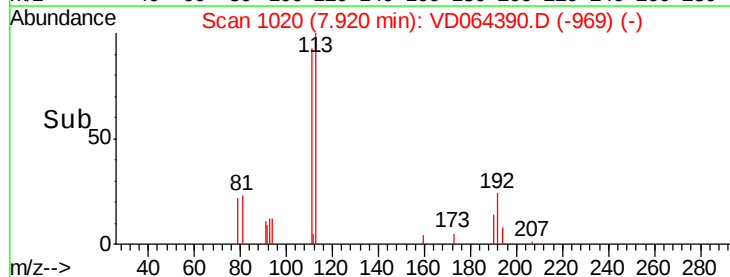
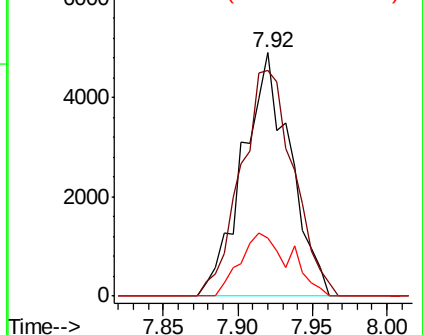


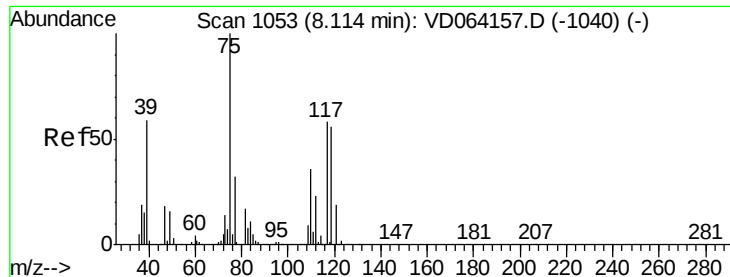
#35
 Dibromofluoromethane
 Concen: 55.632 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064390.D
 Acq: 26 Nov 2019 18:09

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.5	122.3
192	27.4	18.8	28.2



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





#36

1,1-Dichloropropene

Concen: 5.422 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

Instrument :

MSVOA_D

ClientSampled :

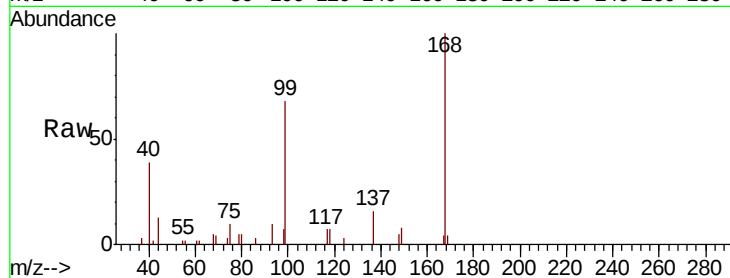
Tot Ion: 75 Resp: 1699

Ion Ratio Lower Upper

75 100

110 0.0 18.3 54.9#

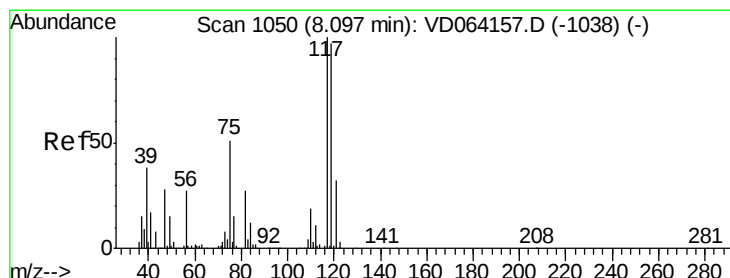
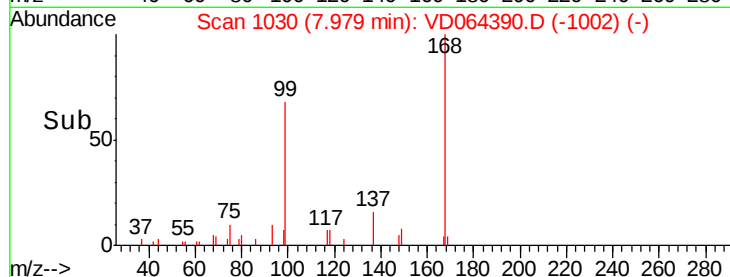
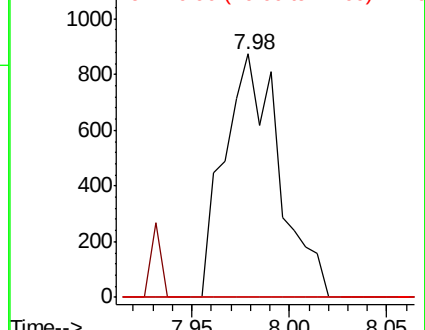
77 0.0 25.0 37.6#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#38

Carbon Tetrachloride

Concen: 3.528 ug/l

RT: 8.00 min Scan# 1033

Delta R.T. -0.10 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

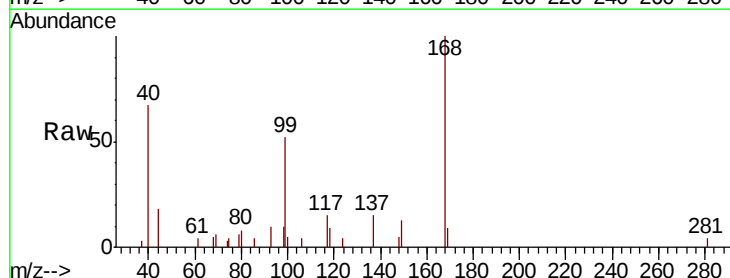
Tgt Ion: 117 Resp: 1183

Ion Ratio Lower Upper

117 100

119 0.0 77.2 115.8#

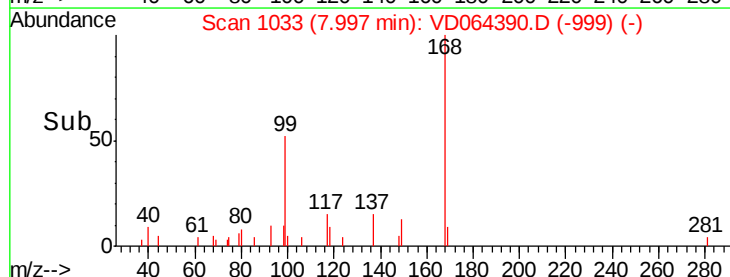
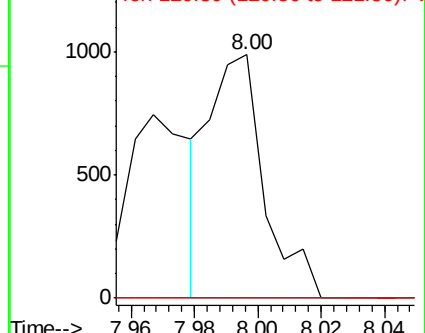
121 0.0 25.5 38.3#

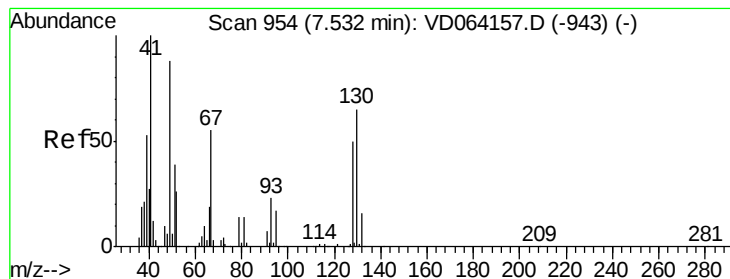


Abundance Ion 116.80 (116.50 to 117.50): VDC

Ion 118.80 (118.50 to 119.50): VDC

Ion 120.80 (120.50 to 121.50): VDC





#41

Methacrylonitrile

Concen: 2.469 ug/l

RT: 7.56 min Scan# 959

Delta R.T. 0.03 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

Instrument :

MSVOA_D

ClientSampled :

Tot Ion: 41 Resp: 205

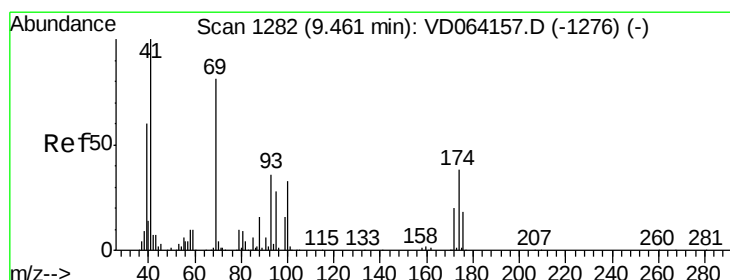
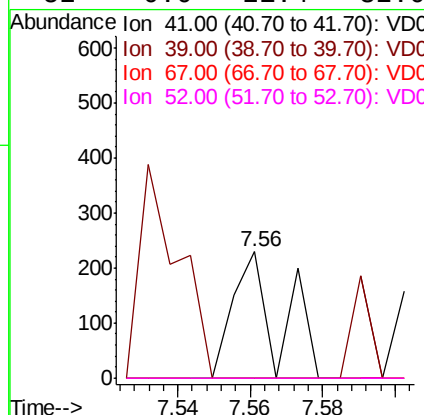
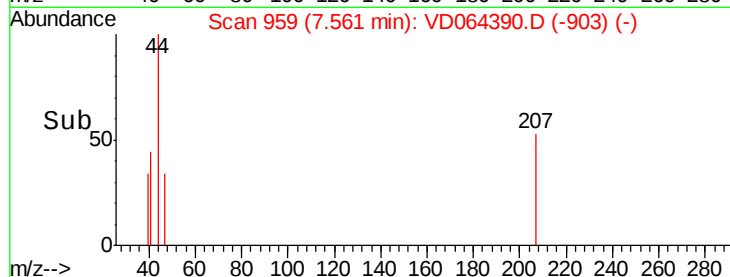
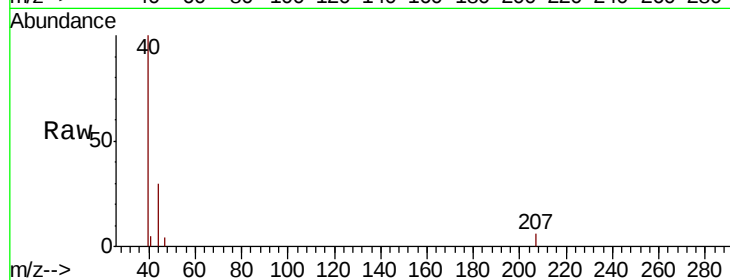
Ion Ratio Lower Upper

41 100

39 0.0 49.4 74.2#

67 0.0 49.6 74.4#

52 0.0 21.4 32.0#



#48

Methyl methacrylate

Concen: 2.682 ug/l

RT: 9.47 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

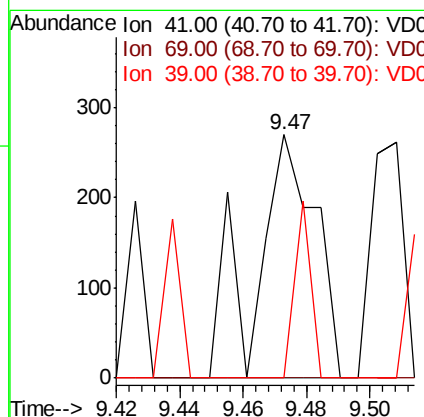
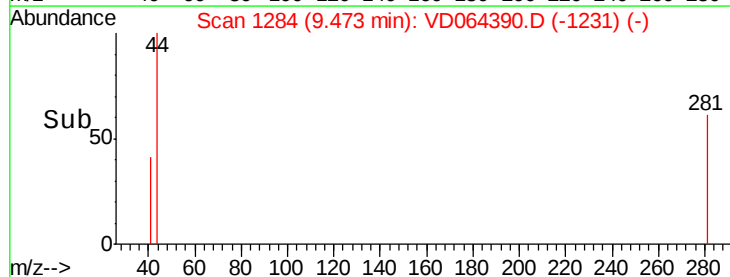
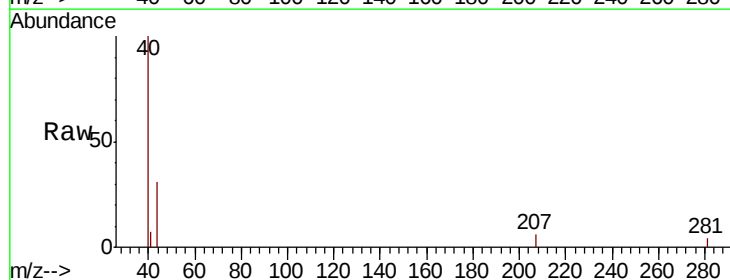
Tgt Ion: 41 Resp: 357

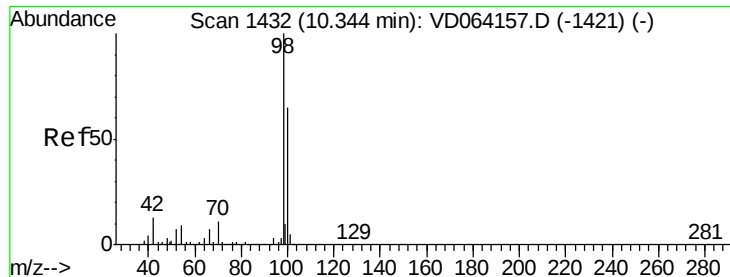
Ion Ratio Lower Upper

41 100

69 0.0 64.6 97.0#

39 19.3 48.2 72.2#





#50

Toluene-d8

Concen: 55.521 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.01 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

Instrument :

MSVOA_D

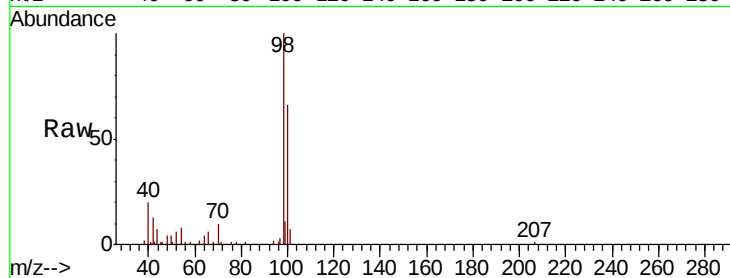
ClientSampleId :

Tot Ion: 98 Resp: 40823

Ion Ratio Lower Upper

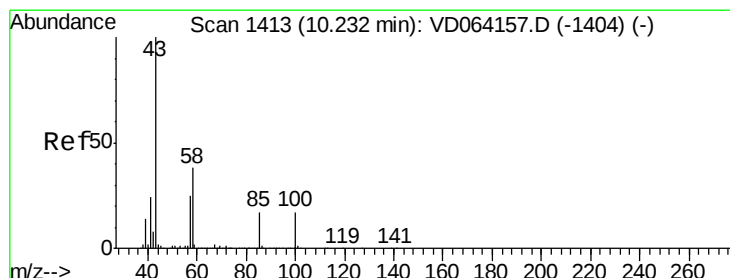
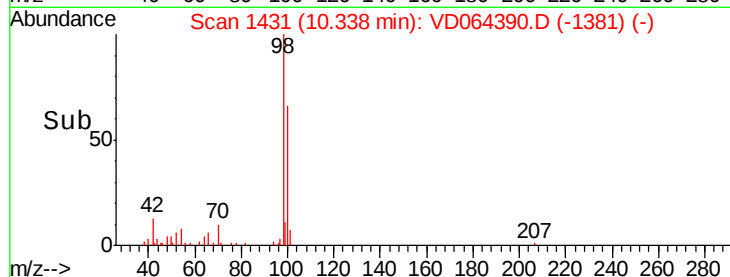
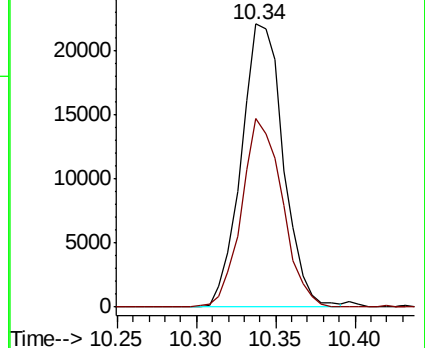
98 100

100 64.4 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC



#51

4-Methyl-2-Pentanone

Concen: 2.122 ug/l

RT: 10.24 min Scan# 1415

Delta R.T. 0.01 min

Lab File: VD064390.D

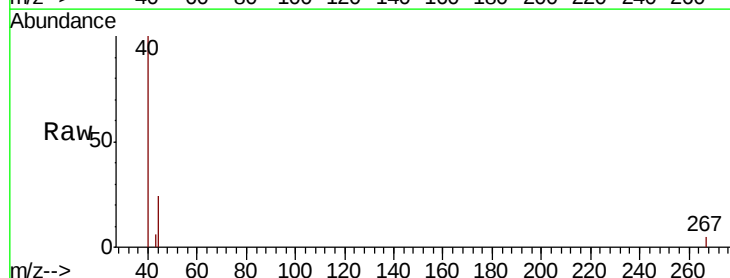
Acq: 26 Nov 2019 18:09

Tgt Ion: 43 Resp: 277

Ion Ratio Lower Upper

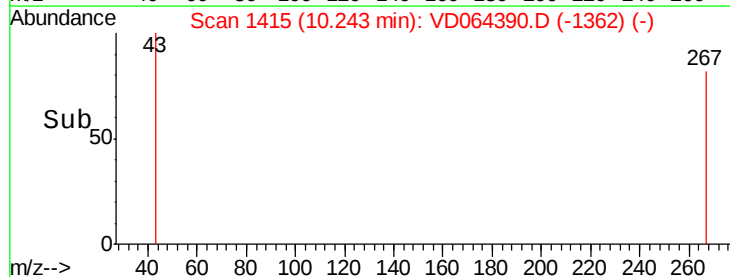
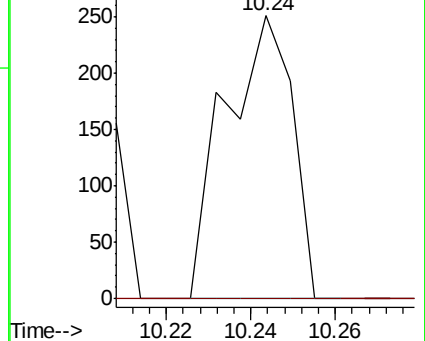
43 100

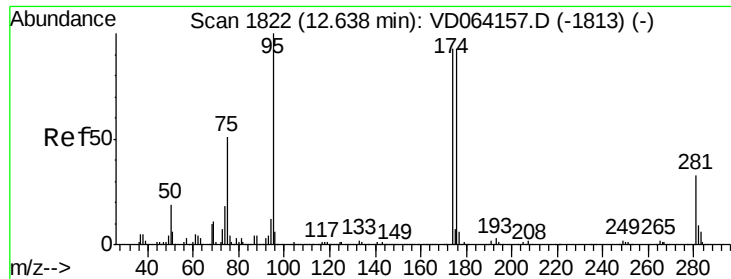
58 0.0 30.2 45.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

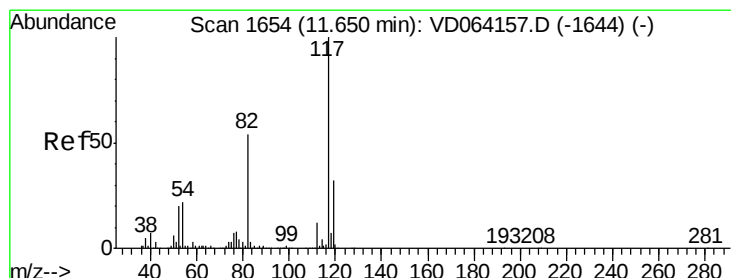
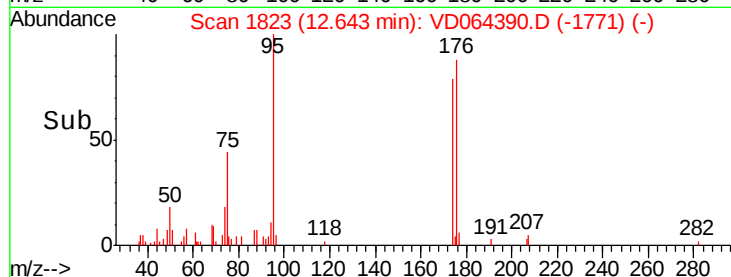
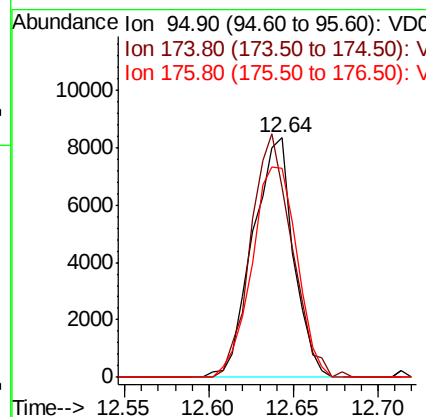
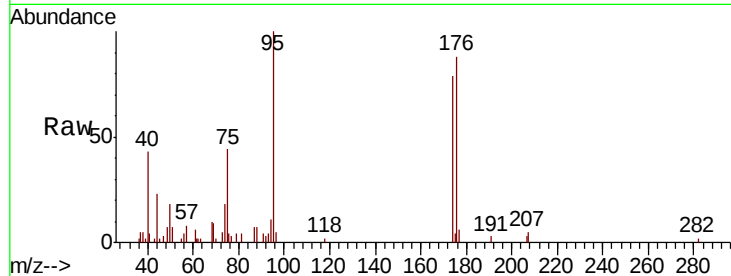




#62
4-Bromofluorobenzene
Concen: 54.813 ug/l
RT: 12.64 min Scan# 1823
Delta R.T. 0.01 min
Lab File: VD064390.D
Acq: 26 Nov 2019 18:09

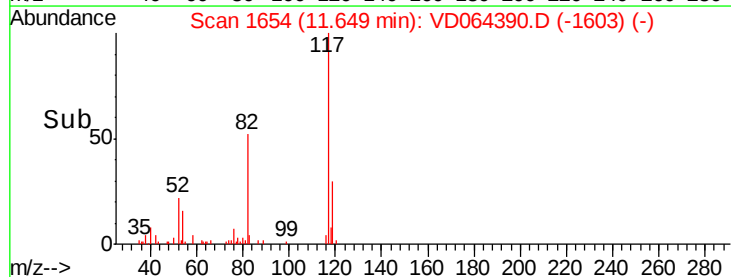
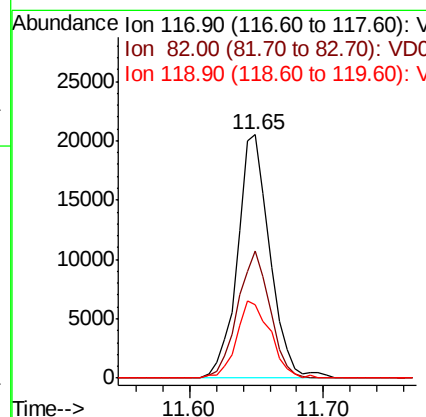
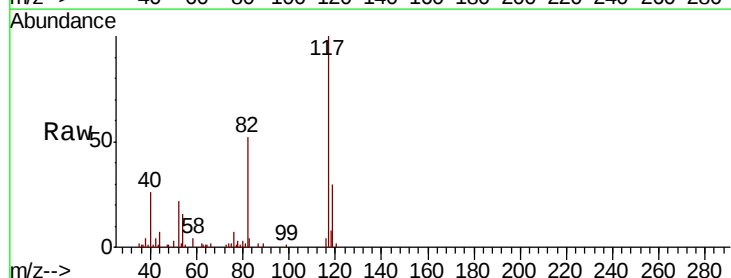
Instrument :
MSVOA_D
ClientSampleId :

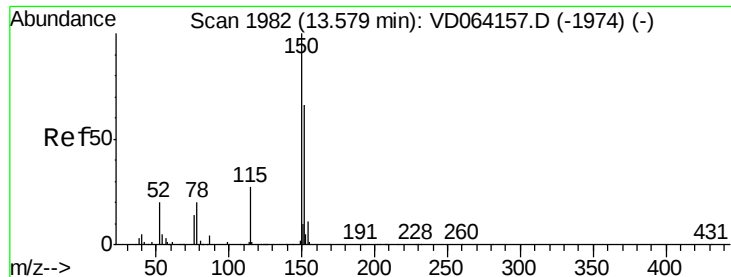
Tot Ion: 95 Resp: 13957
Ion Ratio Lower Upper
95 100
174 102.8 0.0 183.6
176 97.3 0.0 180.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064390.D
Acq: 26 Nov 2019 18:09

Tgt Ion: 117 Resp: 34425
Ion Ratio Lower Upper
117 100
82 52.3 42.8 64.2
119 30.1 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.01 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

Instrument :

MSVOA_D

ClientSampleId :

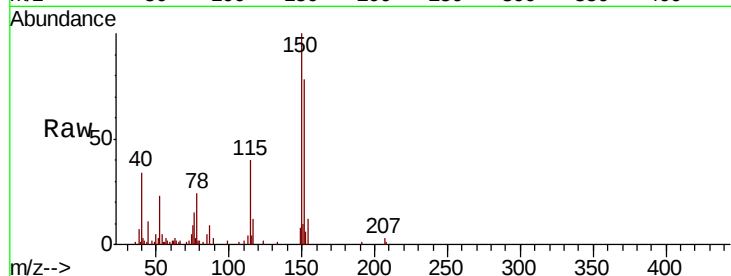
Tot Ion:152 Resp: 17880

Ion Ratio Lower Upper

152 100

115 53.4 27.4 82.2

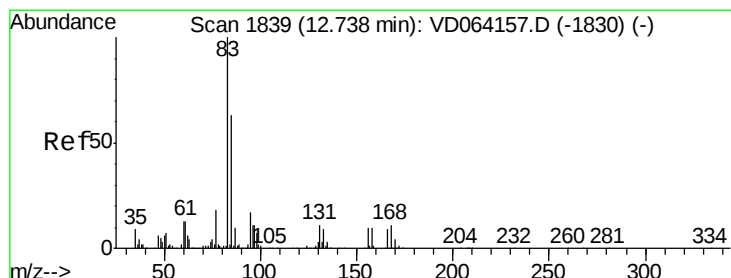
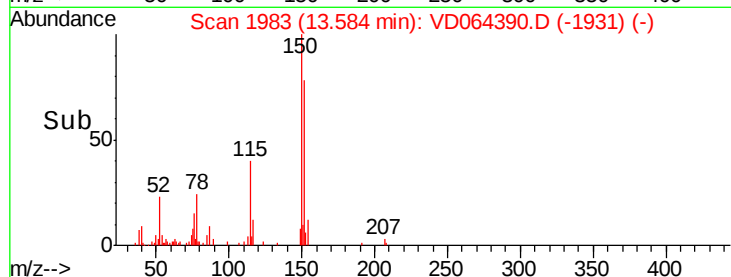
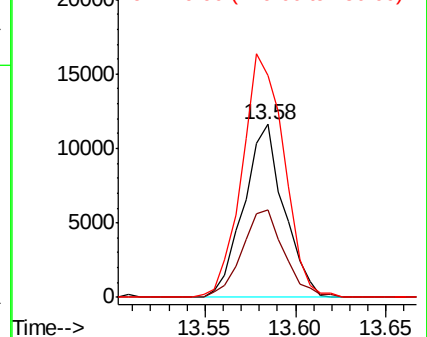
150 147.0 0.0 351.6



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



#75

1,1,2,2-Tetrachloroethane

Concen: 1.229 ug/l

RT: 12.71 min Scan# 1835

Delta R.T. -0.02 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

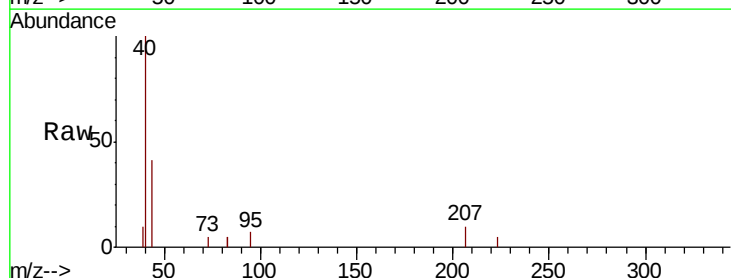
Tgt Ion: 83 Resp: 243

Ion Ratio Lower Upper

83 100

131 0.0 5.9 17.7#

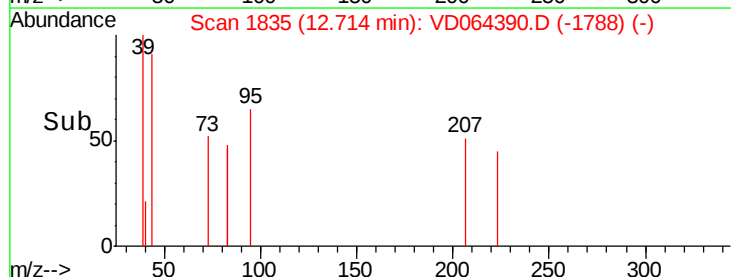
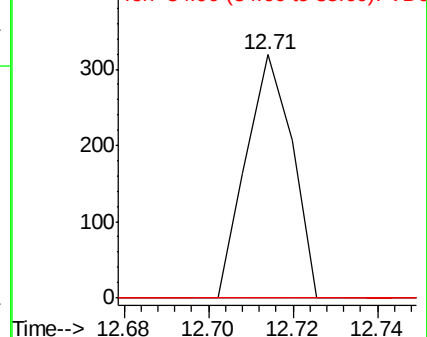
85 0.0 32.5 97.5#

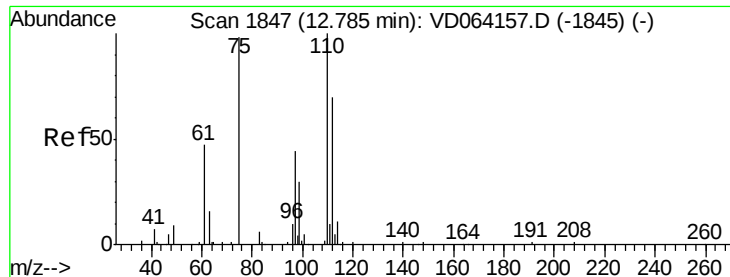


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 49.452 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

Instrument :

MSVOA_D

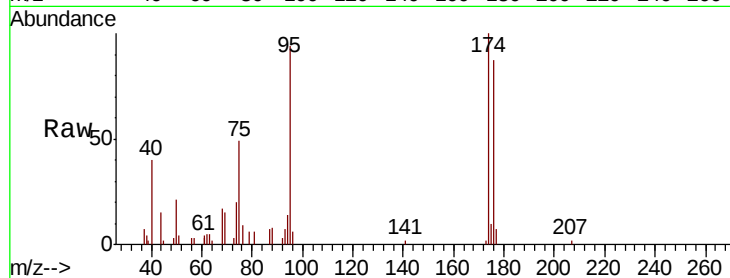
ClientSampleId :

Tot Ion: 75 Resp: 7122

Ion Ratio Lower Upper

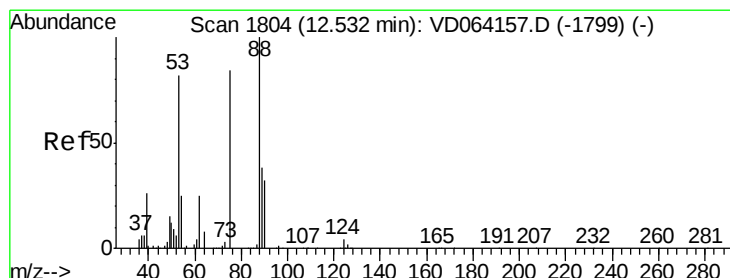
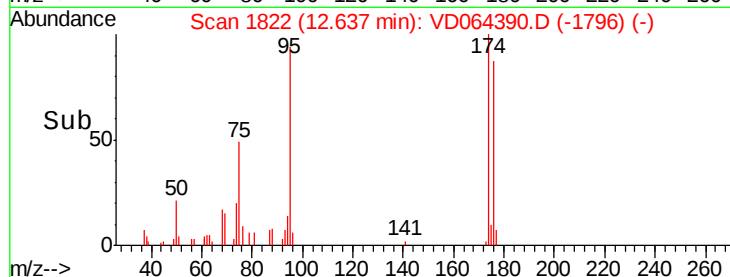
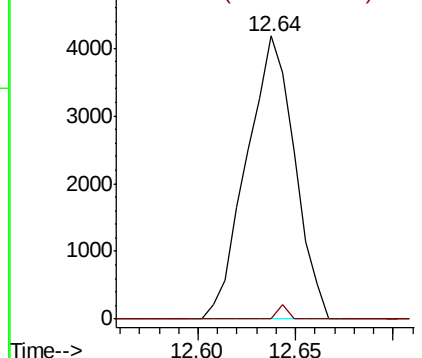
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 98.231 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

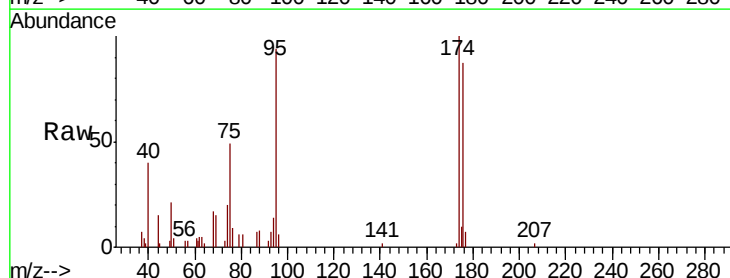
Tgt Ion: 75 Resp: 7122

Ion Ratio Lower Upper

75 100

53 0.0 79.4 119.0#

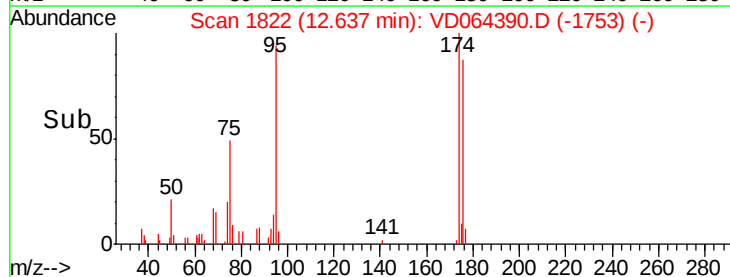
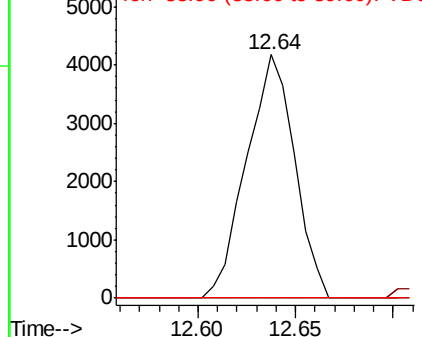
89 0.0 36.6 55.0#

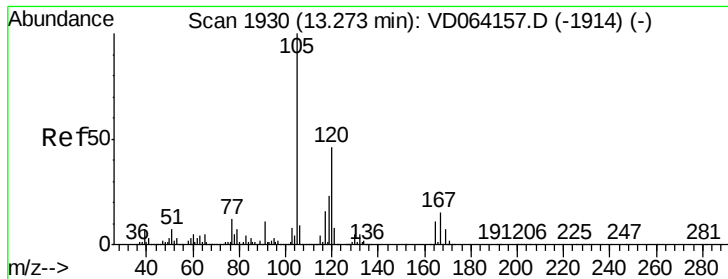


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

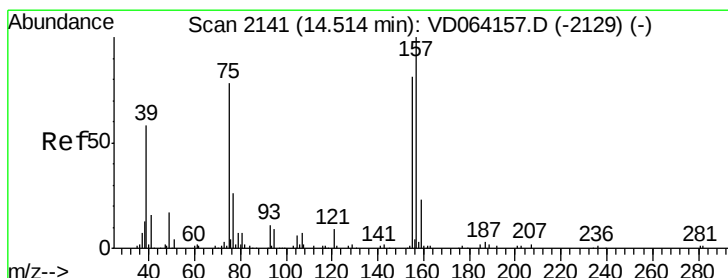
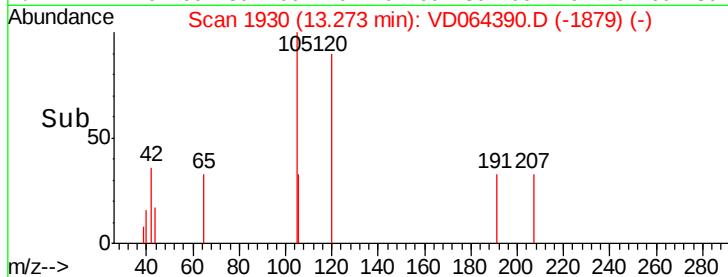
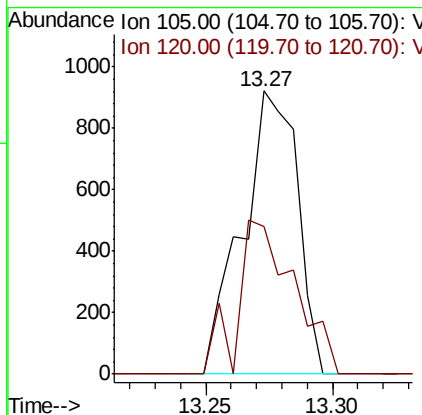
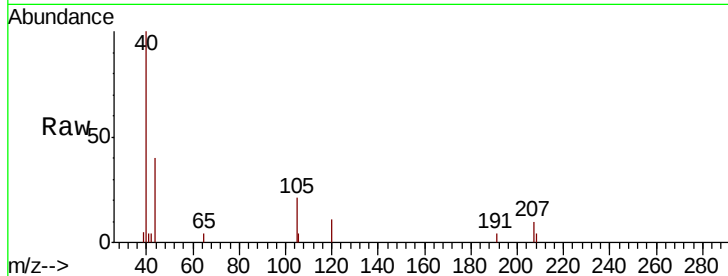




#84
 1,2,4-Trimethylbenzene
 Concen: 1.319 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. -0.00 min
 Lab File: VD064390.D
 Acq: 26 Nov 2019 18:09

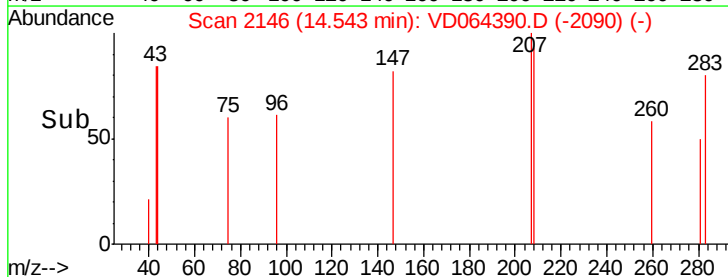
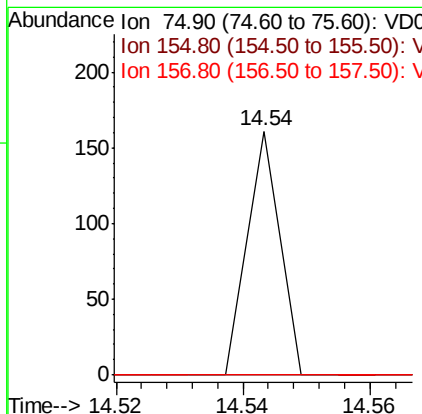
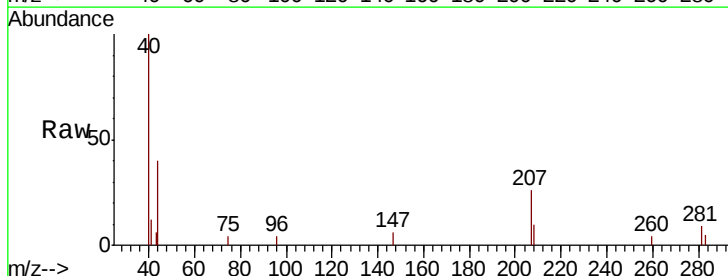
Instrument :
 MSVOA_D
 ClientSampleID :

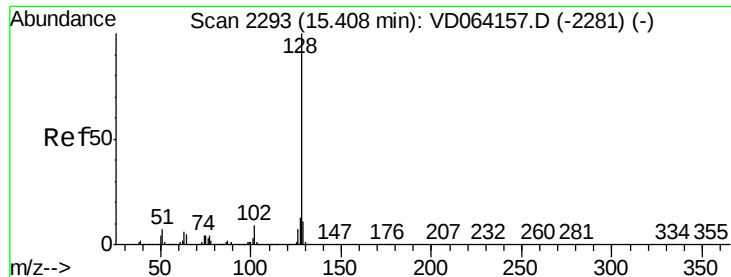
Tot Ion: 105 Resp: 1404
 Ion Ratio Lower Upper
 105 100
 120 55.5 23.3 69.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.612 ug/l
 RT: 14.54 min Scan# 2146
 Delta R.T. 0.03 min
 Lab File: VD064390.D
 Acq: 26 Nov 2019 18:09

Tgt Ion: 75 Resp: 57
 Ion Ratio Lower Upper
 75 100
 155 0.0 48.0 144.0#
 157 0.0 61.5 184.4#





#95

Naphthalene

Concen: 2.111 ug/l

RT: 15.43 min Scan# 2296

Delta R.T. 0.02 min

Lab File: VD064390.D

Acq: 26 Nov 2019 18:09

Instrument :

MSVOA_D

ClientSampleId :

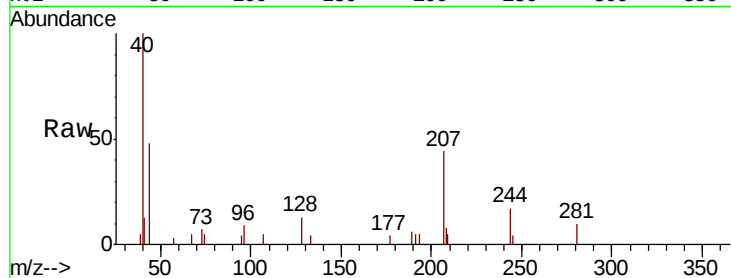
Tot Ion:128 Resp: 1337

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.6 13.0#



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

