

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD013120\
 Data File : VD065040.D
 Acq On : 31 Jan 2020 18:13
 Operator : VA/SY
 Sample : L1345-04
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 01-31-D

Quant Time: Feb 03 00:25:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jan 23 13:45:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	8626	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	12367	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.66	117	12245	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	4994	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	5451	65.88	ug/l	0.00
Spiked Amount			Recovery	=	131.76%	
35) Dibromofluoromethane	7.92	113	4465	57.45	ug/l	0.00
Spiked Amount			Recovery	=	114.90%	
50) Toluene-d8	10.34	98	14188	47.30	ug/l	0.00
Spiked Amount			Recovery	=	94.60%	
62) 4-Bromofluorobenzene	12.64	95	5073	55.27	ug/l	0.00
Spiked Amount			Recovery	=	110.54%	

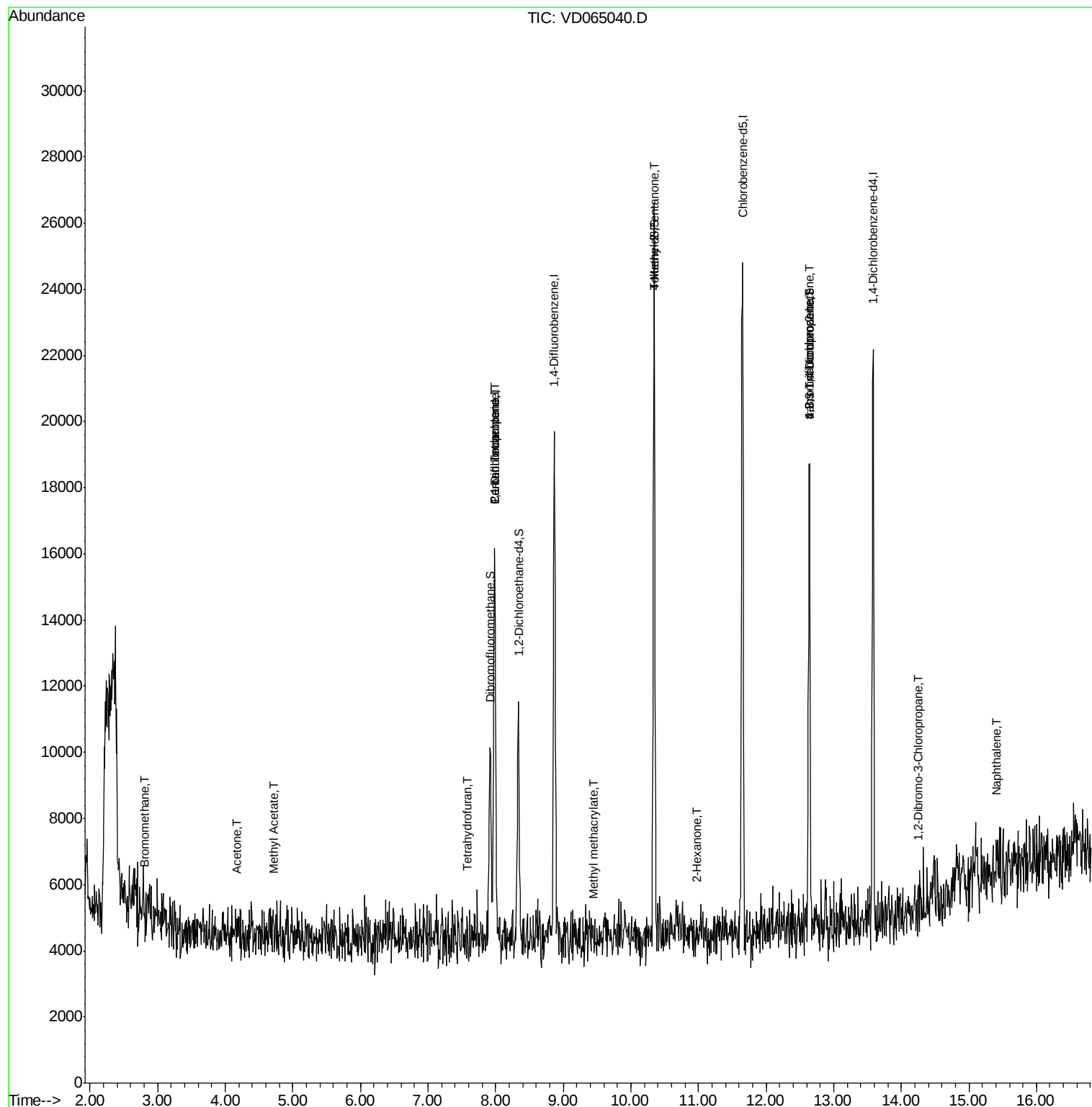
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.81	94	98	1.332	ug/l #	72
16) Acetone	4.17	43	132	19.215	ug/l #	45
18) Methyl Acetate	4.72	43	60	1.548	ug/l #	51
20) Methylene Chloride	4.98	84	119	Below Cal	#	29
29) Tetrahydrofuran	7.58	42	56	4.060	ug/l #	34
36) 1,1-Dichloropropene	7.99	75	620	5.199	ug/l #	42
38) Carbon Tetrachloride	7.98	117	847	6.720	ug/l #	14
48) Methyl methacrylate	9.45	41	66	1.533	ug/l #	13
51) 4-Methyl-2-Pentanone	10.34	43	84	1.794	ug/l #	37
59) 2-Hexanone	10.98	43	68	2.106	ug/l #	25
76) 1,2,3-Trichloropropane	12.64	75	2996	72.279	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	2996	154.332	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.26	75	54	5.882	ug/l #	1
95) Naphthalene	15.41	128	621	4.088	ug/l #	68

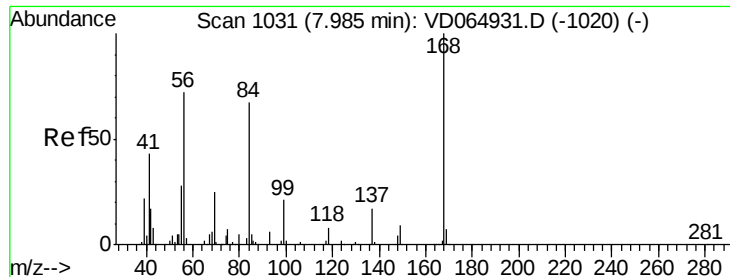
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065040.D

Acq: 31 Jan 2020 18:13

Instrument :

MSVOA_D

ClientSampleId :

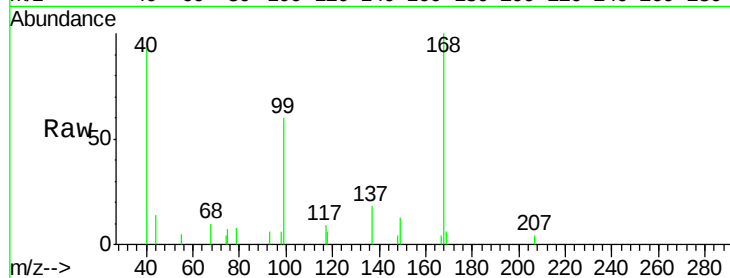
01-31-D

Tot Ion:168 Resp: 8626

Ion Ratio Lower Upper

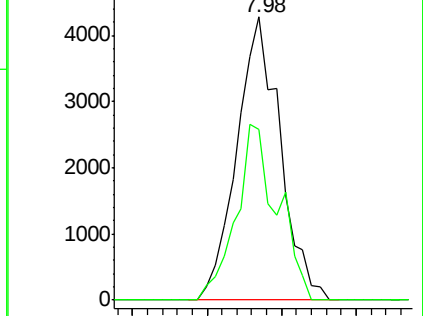
168 100

99 60.4 43.3 64.9

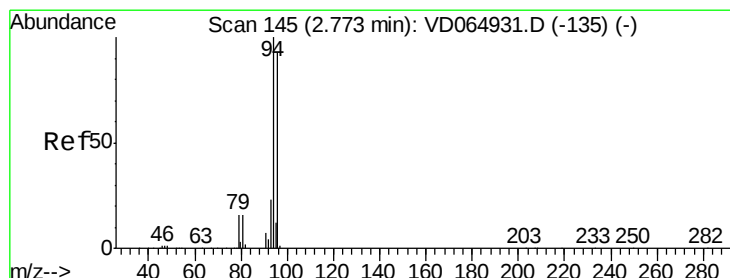
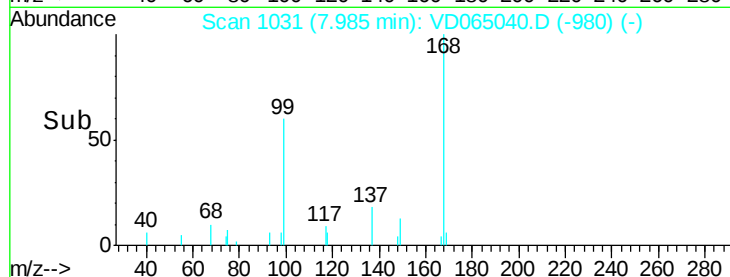


Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



Time-->



#5

Bromomethane

Concen: 1.332 ug/l

RT: 2.81 min Scan# 151

Delta R.T. 0.04 min

Lab File: VD065040.D

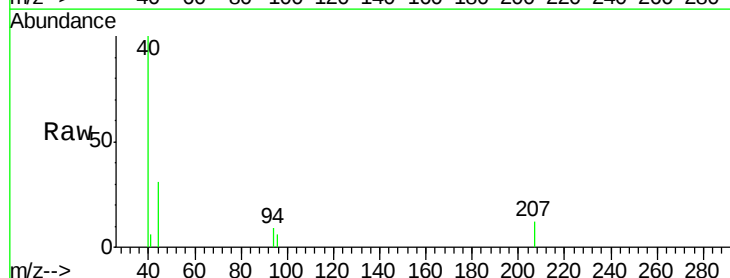
Acq: 31 Jan 2020 18:13

Tgt Ion: 94 Resp: 98

Ion Ratio Lower Upper

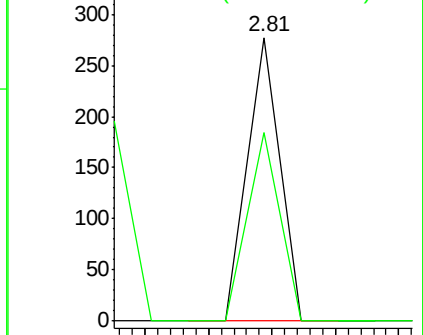
94 100

96 66.2 74.6 111.8#

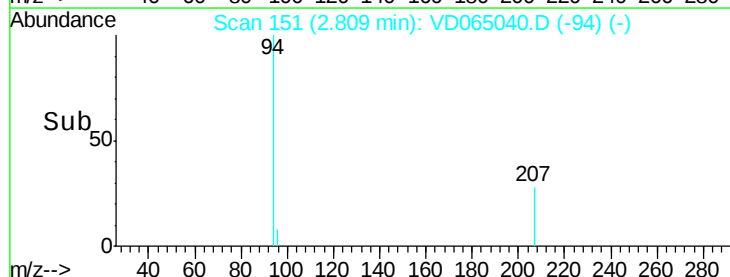


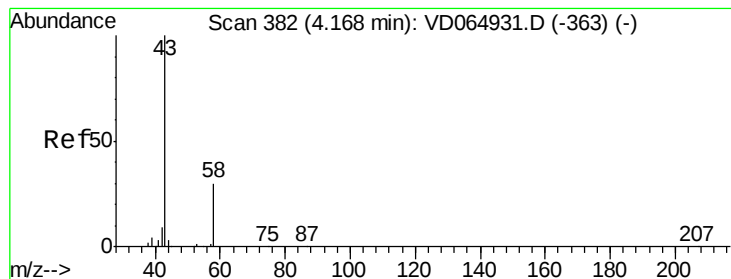
Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



Time-->





#16

Acetone

Concen: 19.215 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD065040.D

Acq: 31 Jan 2020 18:13

Instrument :

MSVOA_D

ClientSampleId :

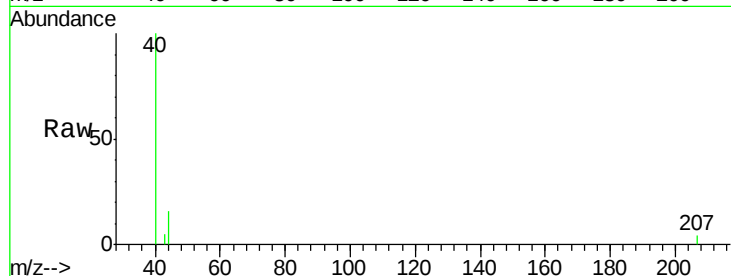
01-31-D

Tot Ion: 43 Resp: 132

Ion Ratio Lower Upper

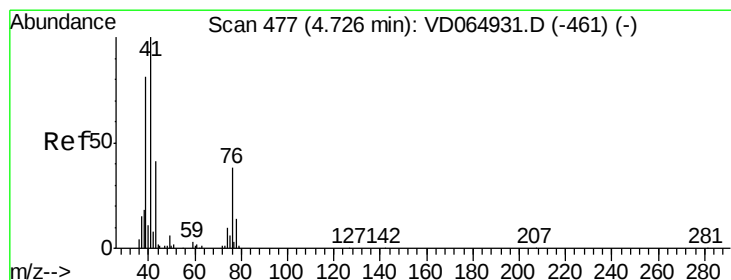
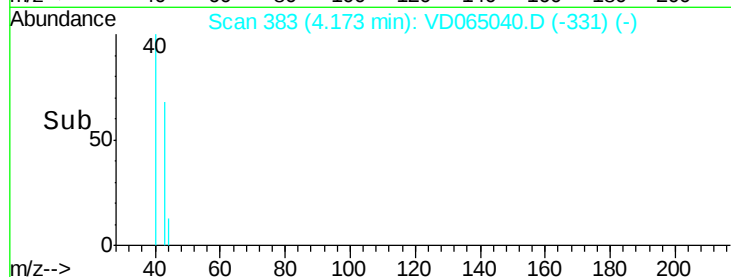
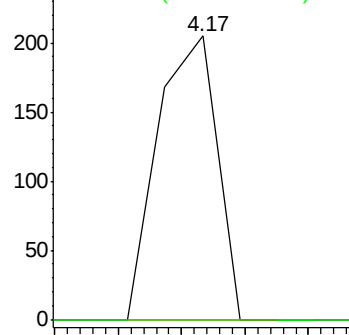
43 100

58 0.0 23.8 35.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#18

Methyl Acetate

Concen: 1.548 ug/l

RT: 4.72 min Scan# 476

Delta R.T. -0.01 min

Lab File: VD065040.D

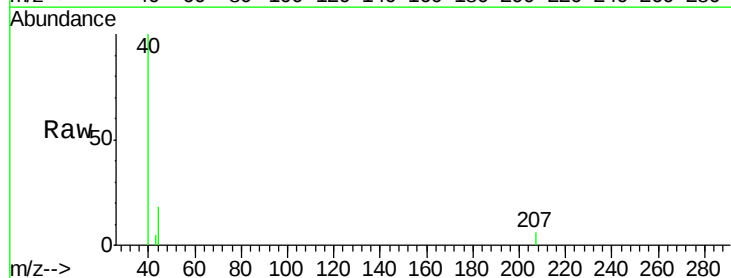
Acq: 31 Jan 2020 18:13

Tgt Ion: 43 Resp: 60

Ion Ratio Lower Upper

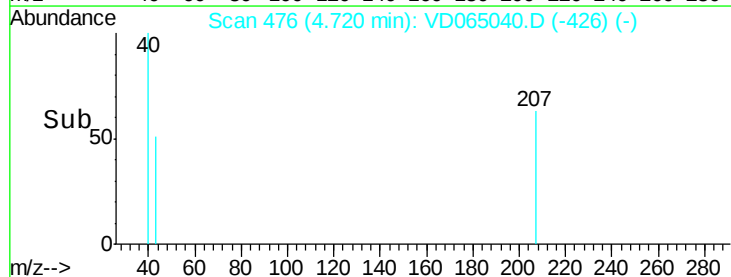
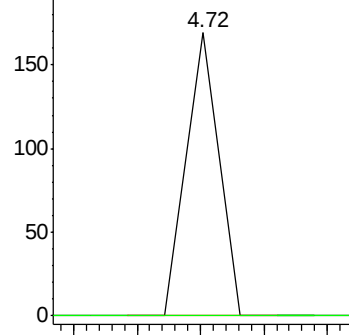
43 100

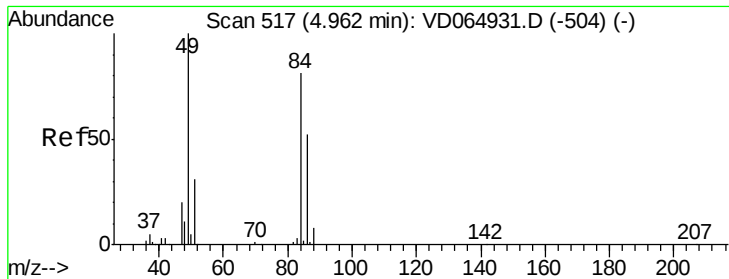
74 0.0 19.1 28.7#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC





#20

Methylene Chloride

Concen: Below Cal

RT: 4.98 min Scan# 520

Delta R.T. 0.02 min

Lab File: VD065040.D

Acq: 31 Jan 2020 18:13

Instrument :

MSVOA_D

ClientSampleId :

01-31-D

Tot Ion: 84 Resp: 119

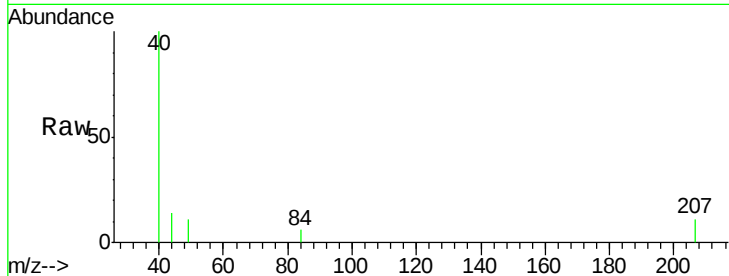
Ion Ratio Lower Upper

84 100

49 200.0 98.4 147.6#

51 0.0 30.8 46.2#

86 0.0 51.0 76.6#

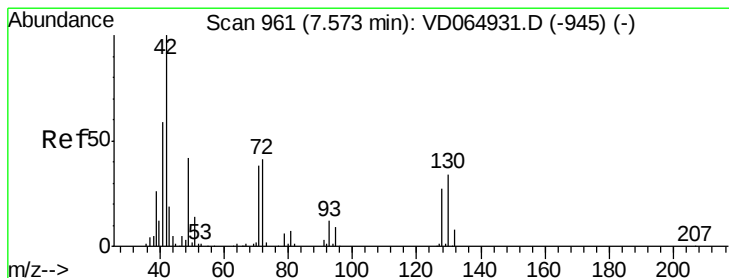
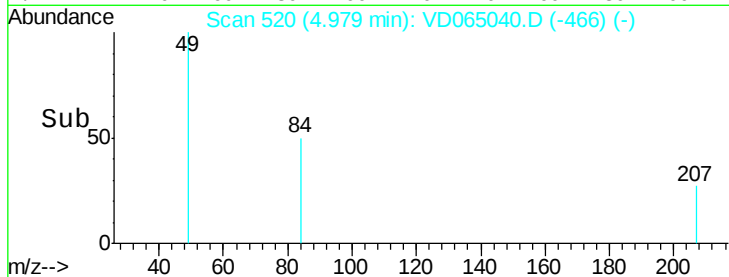
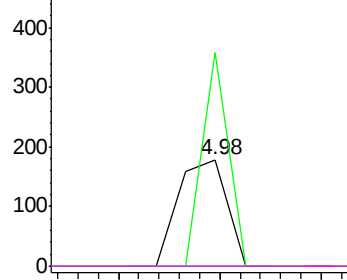


Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#29

Tetrahydrofuran

Concen: 4.060 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.01 min

Lab File: VD065040.D

Acq: 31 Jan 2020 18:13

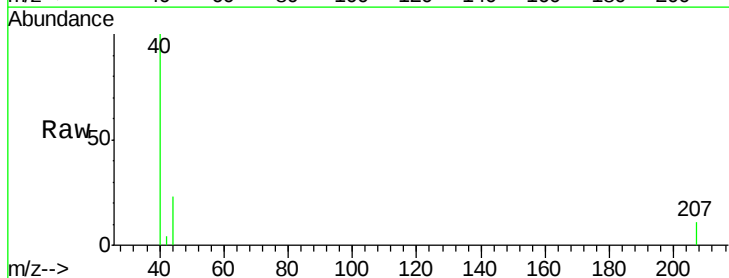
Tgt Ion: 42 Resp: 56

Ion Ratio Lower Upper

42 100

72 0.0 34.0 51.0#

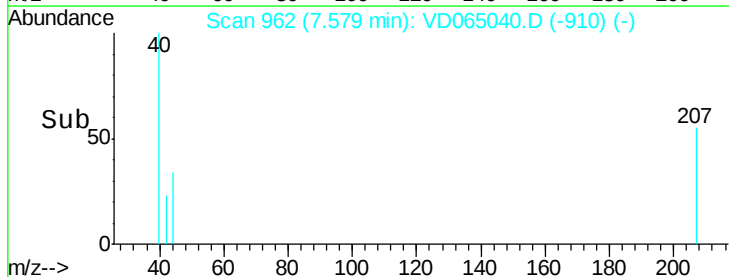
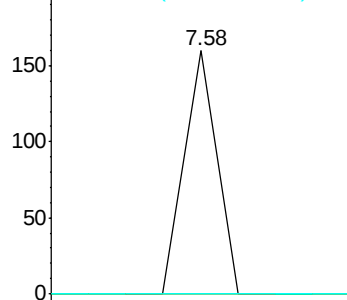
71 0.0 31.5 47.3#

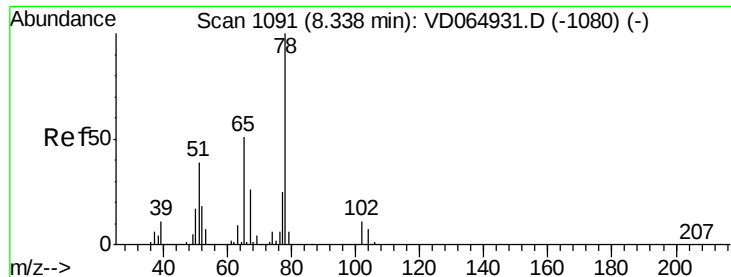


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#33

1,2-Dichloroethane-d4

Concen: 65.879 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD065040.D

Acq: 31 Jan 2020 18:13

Instrument :

MSVOA_D

ClientSampled :

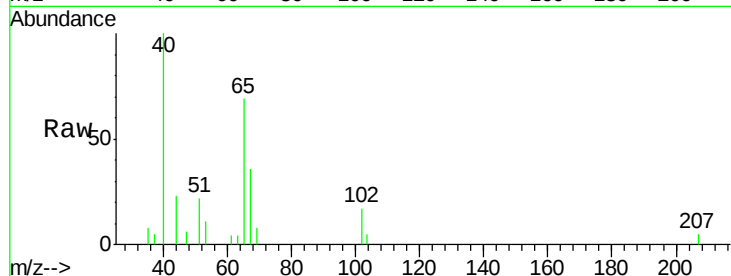
01-31-D

Tot Ion: 65 Resp: 5451

Ion Ratio Lower Upper

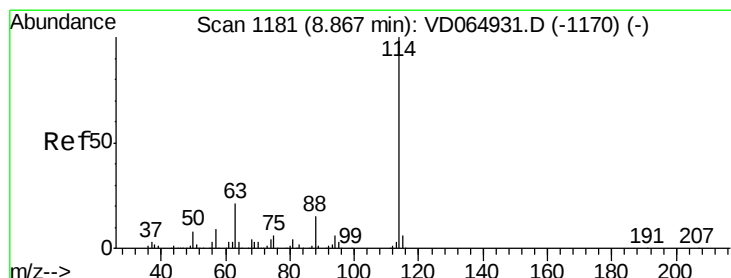
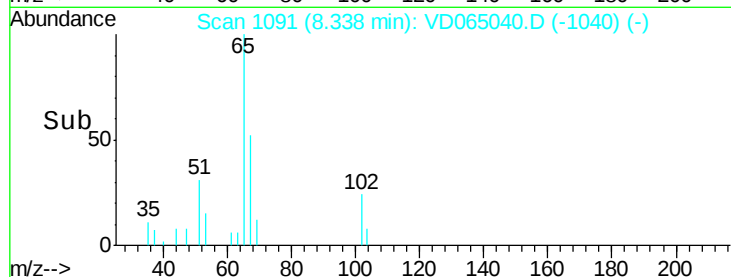
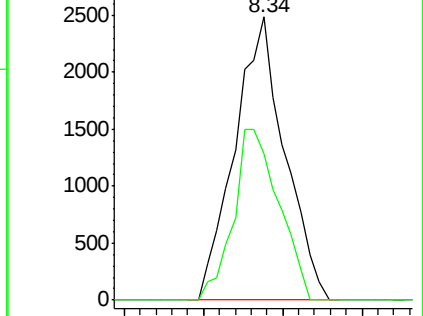
65 100

67 54.7 0.0 103.6



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: VD065040.D

Acq: 31 Jan 2020 18:13

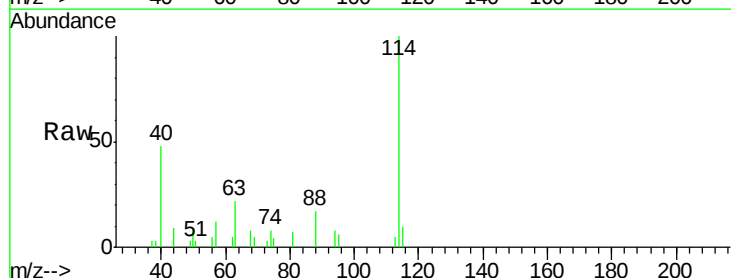
Tgt Ion: 114 Resp: 12367

Ion Ratio Lower Upper

114 100

63 21.7 0.0 42.0

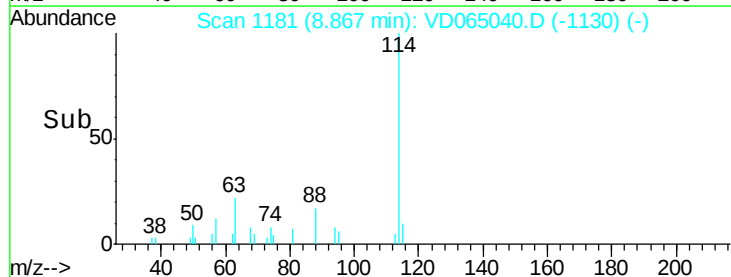
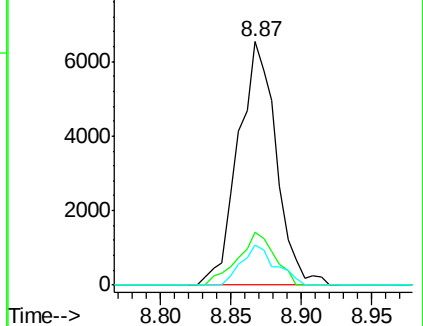
88 16.7 0.0 29.4

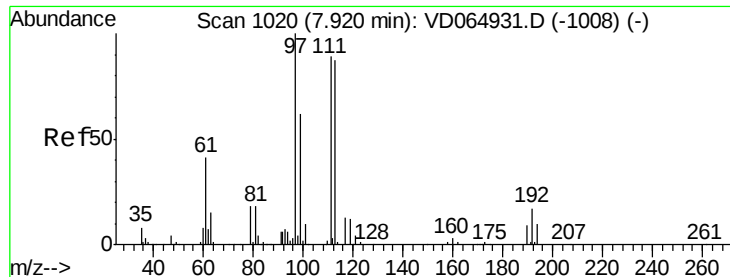


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 57.453 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD065040.D

Acq: 31 Jan 2020 18:13

Instrument :

MSVOA_D

ClientSampleId :

01-31-D

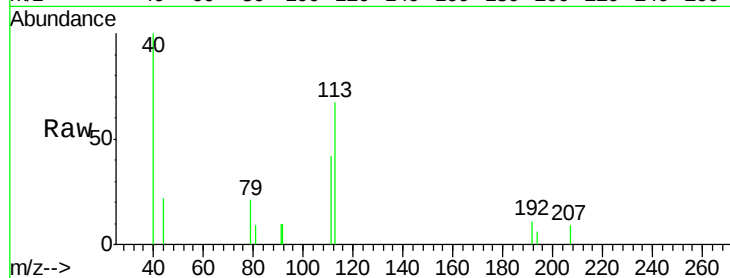
Tot Ion:113 Resp: 4465

Ion Ratio Lower Upper

113 100

111 60.0 82.4 123.6#

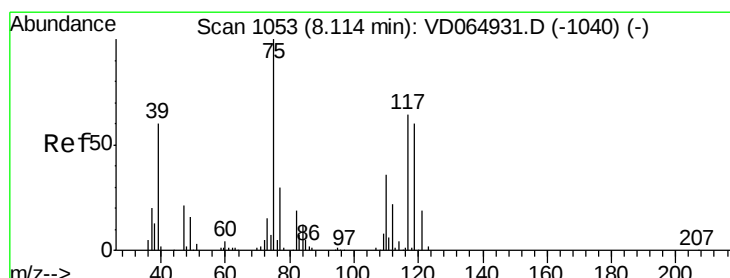
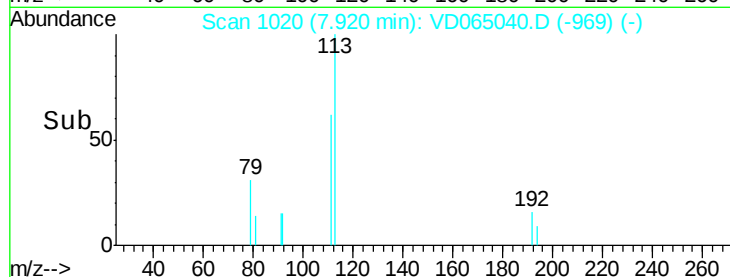
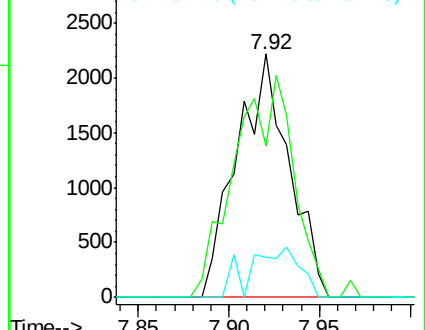
192 19.4 16.9 25.3



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: 5.199 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.12 min

Lab File: VD065040.D

Acq: 31 Jan 2020 18:13

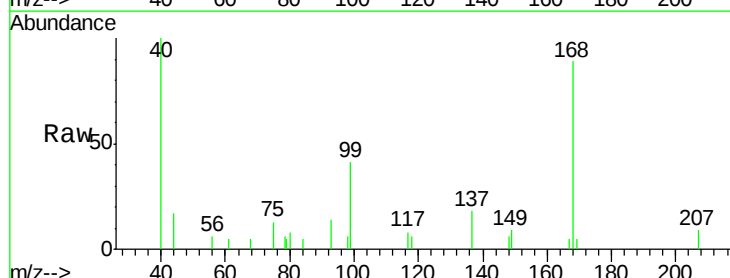
Tgt Ion: 75 Resp: 620

Ion Ratio Lower Upper

75 100

110 0.0 17.3 52.0#

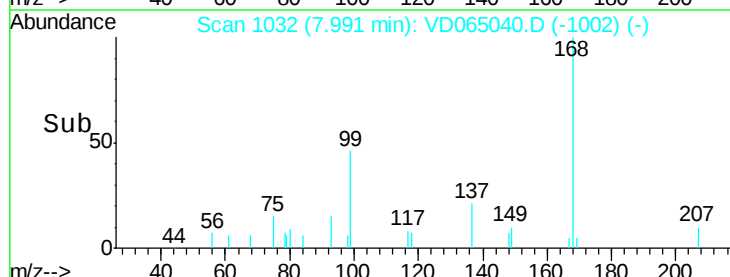
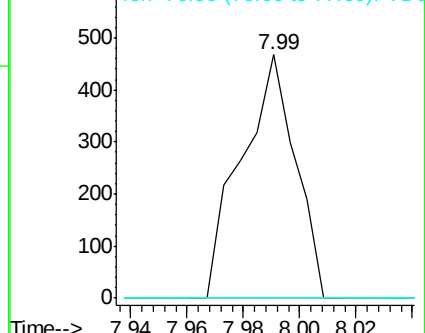
77 0.0 24.7 37.1#

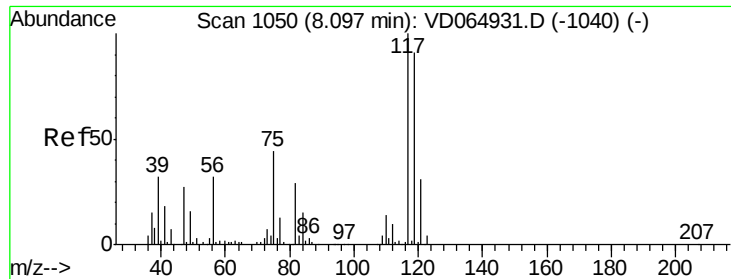


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.720 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD065040.D

Acq: 31 Jan 2020 18:13

Instrument :

MSVOA_D

ClientSampleId :

01-31-D

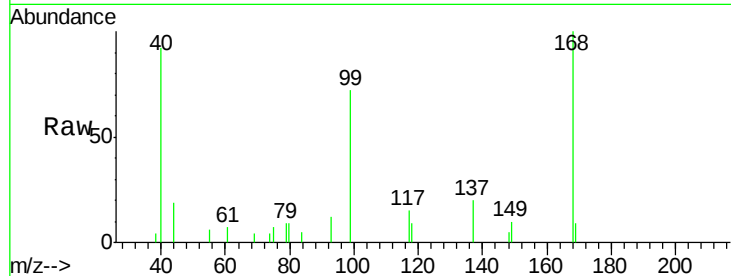
Tot Ion:117 Resp: 847

Ion Ratio Lower Upper

117 100

119 0.0 73.2 109.8#

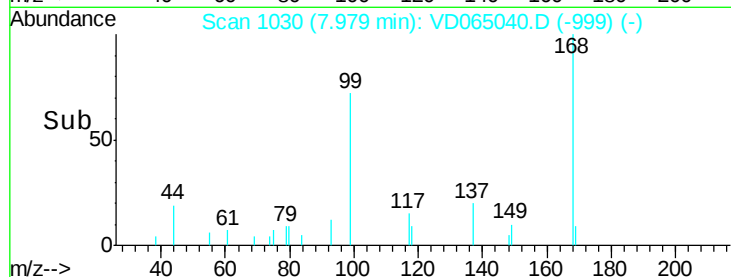
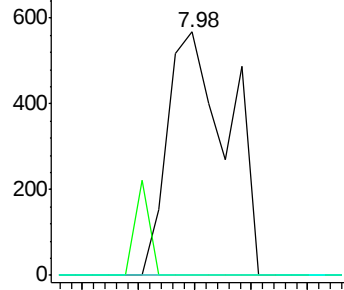
121 0.0 24.4 36.6#



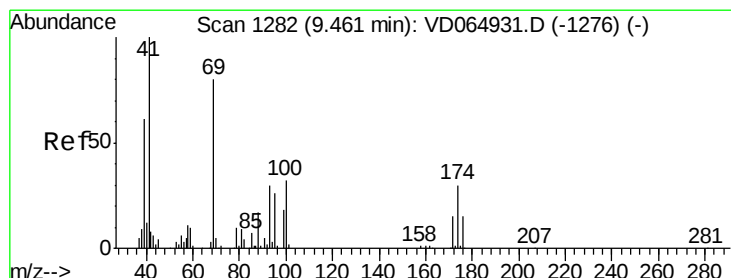
Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



Time-->



#48

Methyl methacrylate

Concen: 1.533 ug/l

RT: 9.45 min Scan# 1280

Delta R.T. -0.01 min

Lab File: VD065040.D

Acq: 31 Jan 2020 18:13

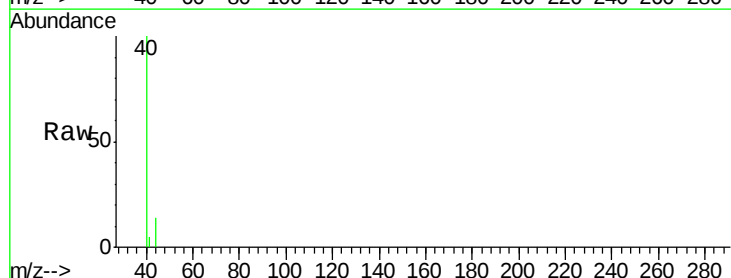
Tgt Ion: 41 Resp: 66

Ion Ratio Lower Upper

41 100

69 0.0 65.8 98.8#

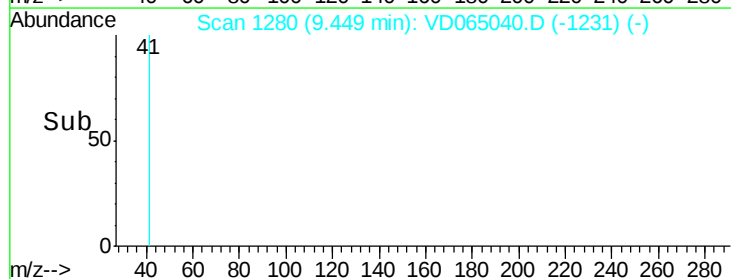
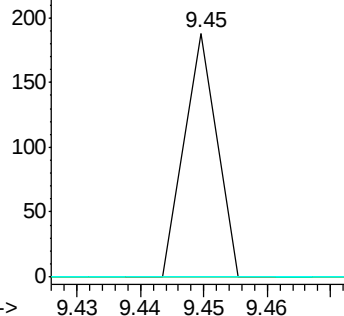
39 0.0 49.4 74.0#

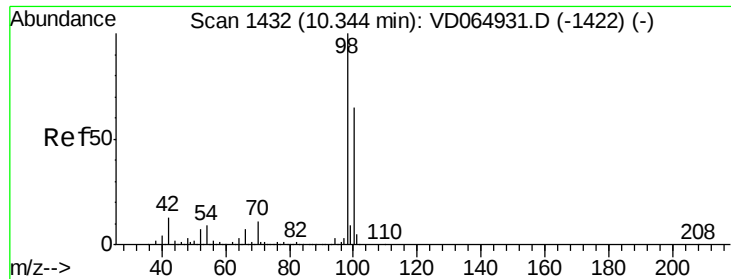


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





#50

Toluene-d8

Concen: 47.301 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. -0.00 min

Lab File: VD065040.D

Acq: 31 Jan 2020 18:13

Instrument :

MSVOA_D

ClientSampleId :

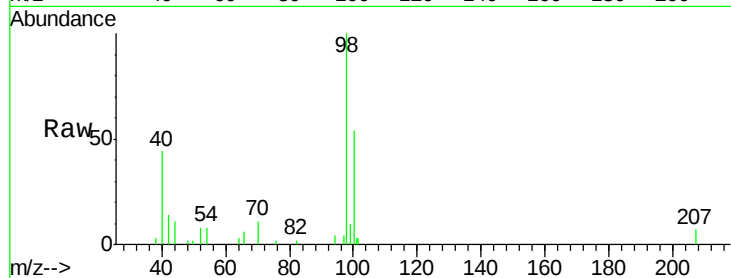
01-31-D

Tot Ion: 98 Resp: 14188

Ion Ratio Lower Upper

98 100

100 59.6 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

8000

6000

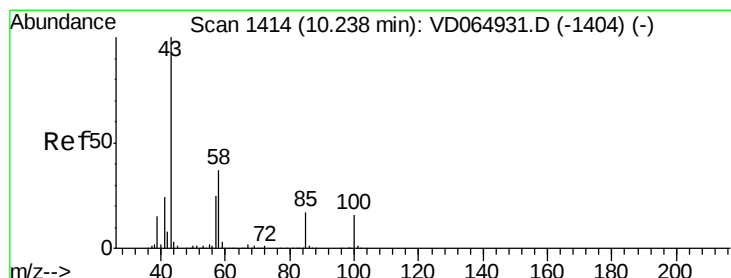
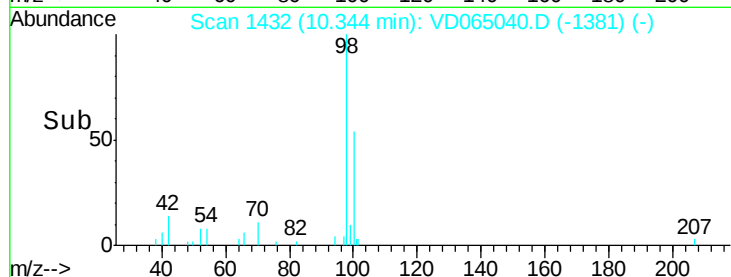
4000

2000

0

10.30 10.35 10.40

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.794 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.10 min

Lab File: VD065040.D

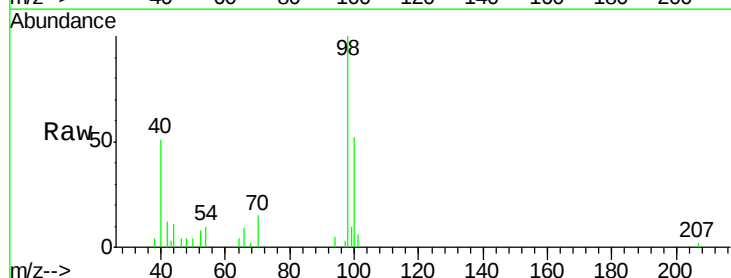
Acq: 31 Jan 2020 18:13

Tgt Ion: 43 Resp: 84

Ion Ratio Lower Upper

43 100

58 0.0 30.4 45.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.34

250

200

150

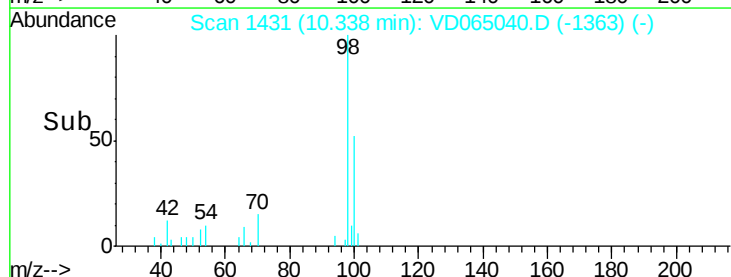
100

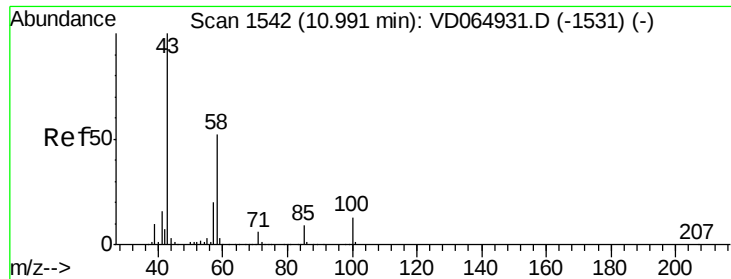
50

0

10.32 10.34

Time-->

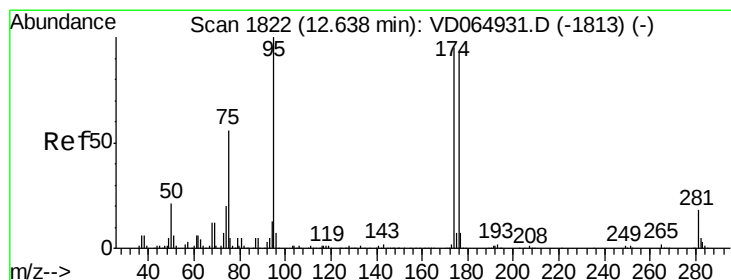
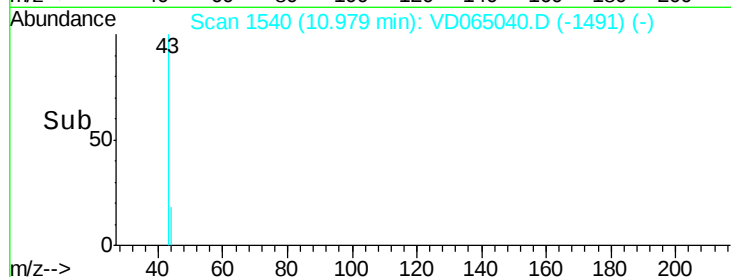
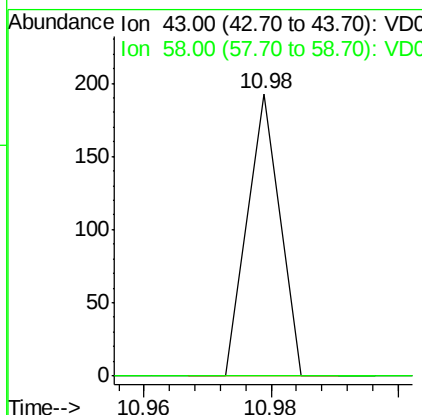
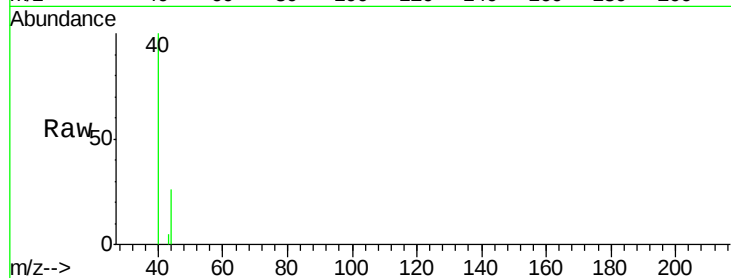




#59
2-Hexanone
Concen: 2.106 ug/l
RT: 10.98 min Scan# 1540
Delta R.T. -0.01 min
Lab File: VD065040.D
Acq: 31 Jan 2020 18:13

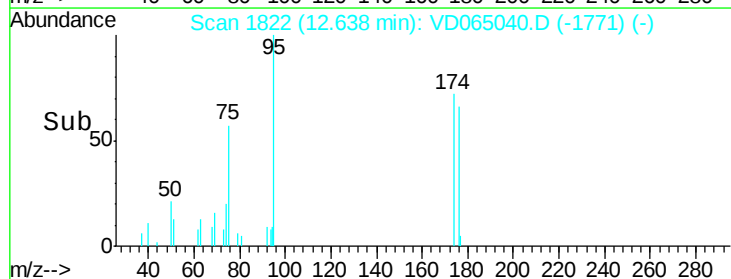
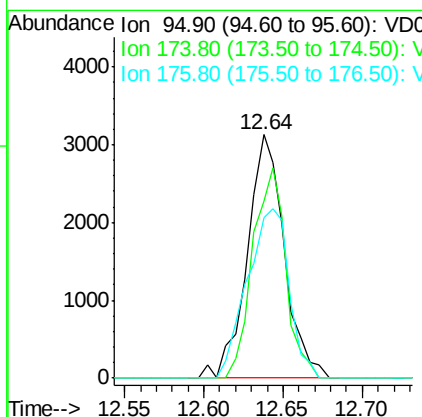
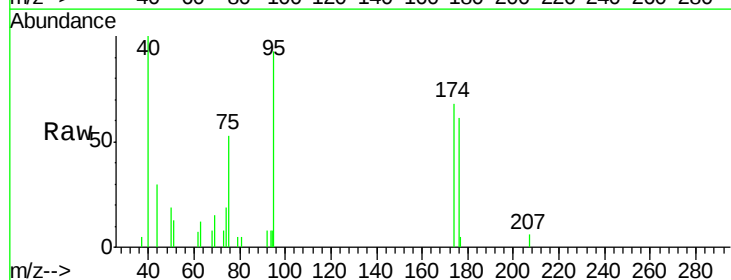
Instrument :
MSVOA_D
ClientSampleId :
01-31-D

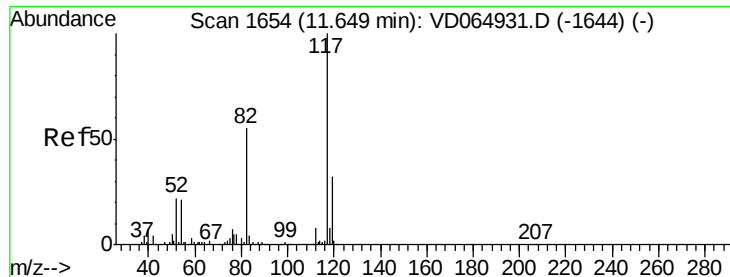
Tot Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
58 0.0 26.5 79.4#



#62
4-Bromofluorobenzene
Concen: 55.266 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065040.D
Acq: 31 Jan 2020 18:13

Tgt Ion: 95 Resp: 5073
Ion Ratio Lower Upper
95 100
174 77.3 0.0 186.8
176 79.0 0.0 183.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.66 min Scan# 1655

Delta R.T. 0.01 min

Lab File: VD065040.D

Acq: 31 Jan 2020 18:13

Instrument :

MSVOA_D

ClientSampleId :

01-31-D

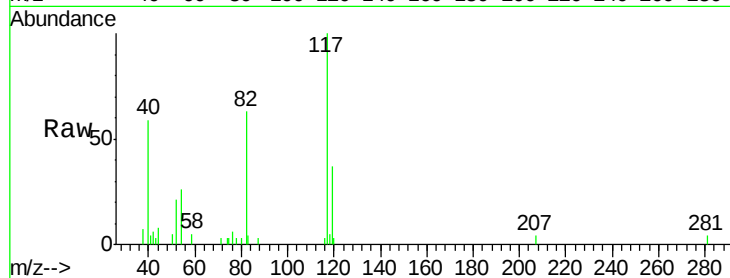
Tot Ion:117 Resp: 12245

Ion Ratio Lower Upper

117 100

82 63.3 43.6 65.4

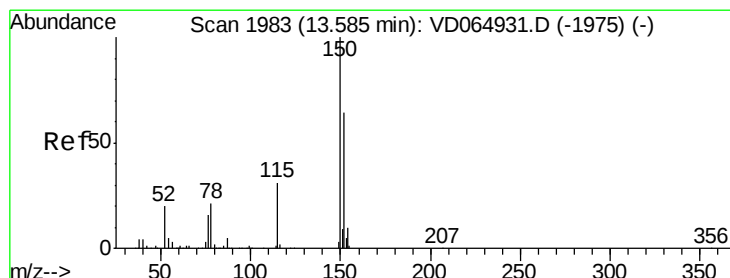
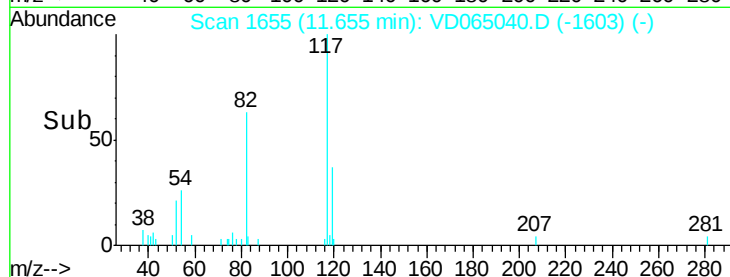
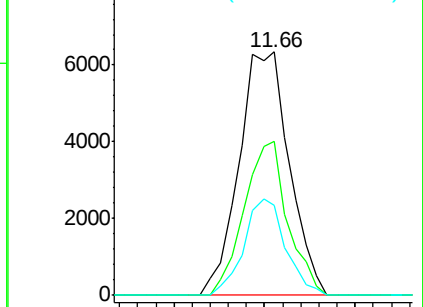
119 37.2 25.2 37.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. -0.00 min

Lab File: VD065040.D

Acq: 31 Jan 2020 18:13

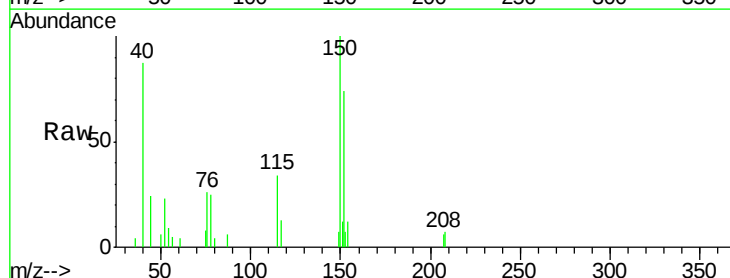
Tgt Ion:152 Resp: 4994

Ion Ratio Lower Upper

152 100

115 50.0 28.1 84.4

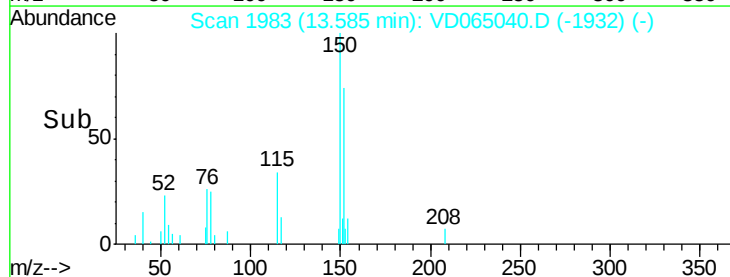
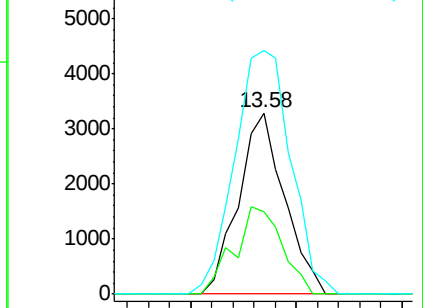
150 163.3 0.0 350.4

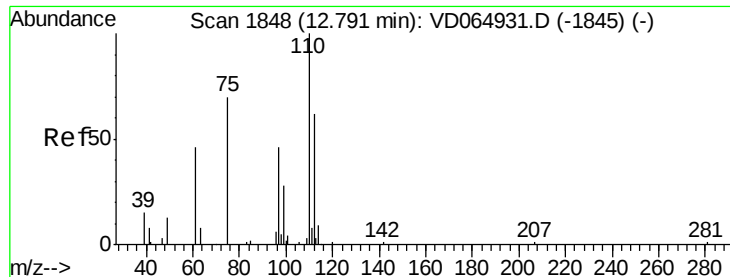


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 72.279 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065040.D

Acq: 31 Jan 2020 18:13

Instrument :

MSVOA_D

ClientSampleId :

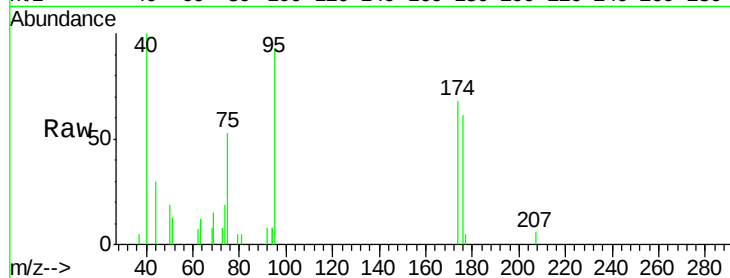
01-31-D

Tot Ion: 75 Resp: 2996

Ion Ratio Lower Upper

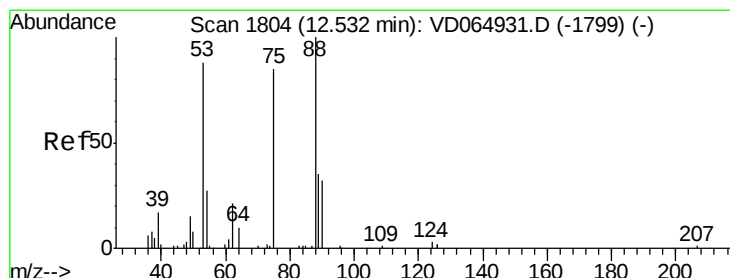
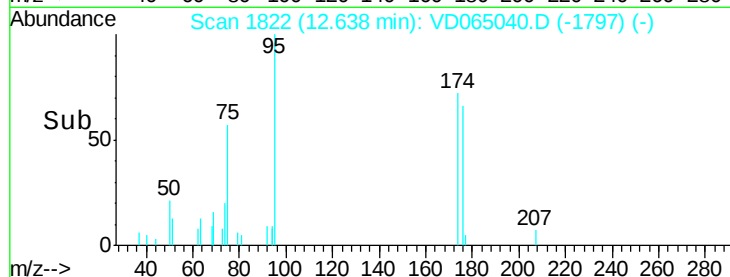
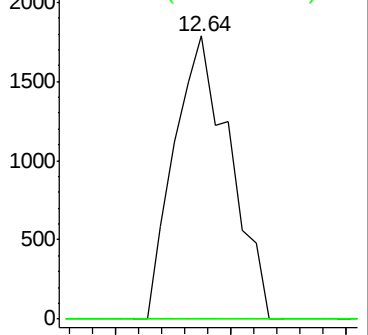
75 100

77 0.0 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: 154.332 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD065040.D

Acq: 31 Jan 2020 18:13

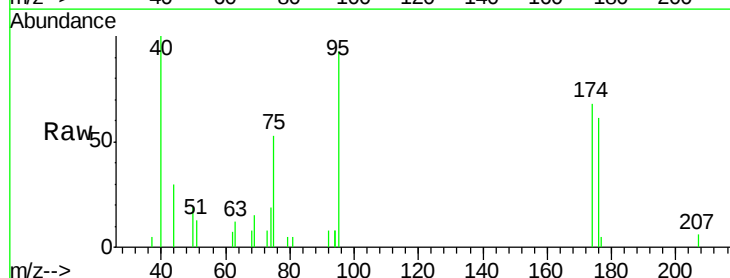
Tgt Ion: 75 Resp: 2996

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

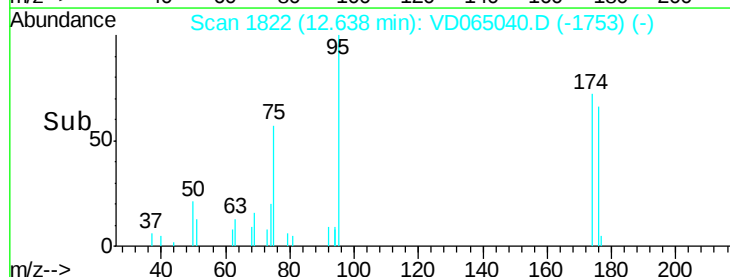
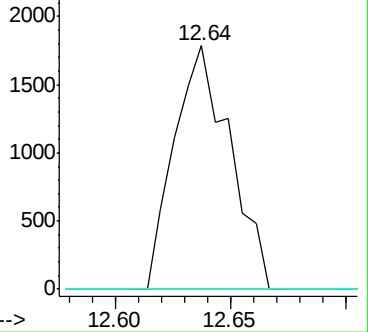
89 0.0 36.2 54.4#

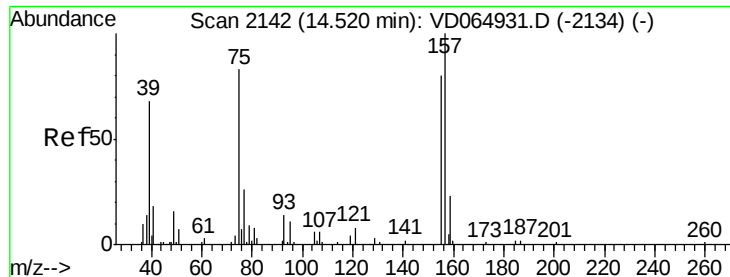


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

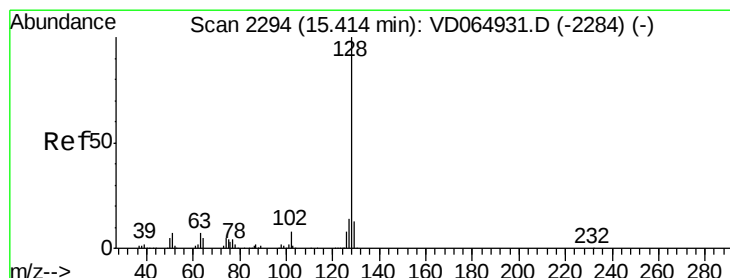
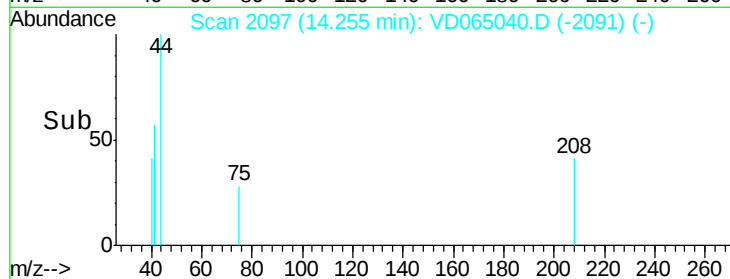
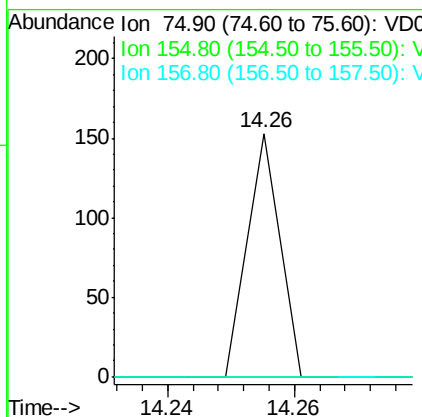
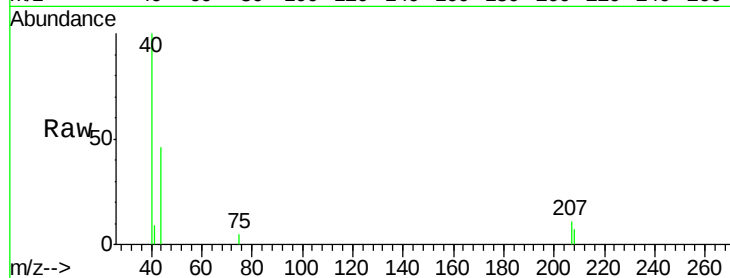




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.882 ug/l
 RT: 14.26 min Scan# 2097
 Delta R.T. -0.26 min
 Lab File: VD065040.D
 Acq: 31 Jan 2020 18:13

Instrument :
 MSVOA_D
 ClientSampleId :
 01-31-D

Tot Ion: 75 Resp: 54
 Ion Ratio Lower Upper
 75 100
 155 0.0 44.9 134.7#
 157 0.0 58.9 176.6#



#95
 Naphthalene
 Concen: 4.088 ug/l
 RT: 15.41 min Scan# 2294
 Delta R.T. -0.00 min
 Lab File: VD065040.D
 Acq: 31 Jan 2020 18:13

Tgt Ion: 128 Resp: 621
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 15.8#
 129 0.0 9.3 13.9#

