

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD013120\
 Data File : VD065038.D
 Acq On : 31 Jan 2020 17:16
 Operator : VA/SY
 Sample : L1345-02
 Misc : 5.05G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 01-31-B

Quant Time: Feb 03 00:18:20 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	7.97	168	8524	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.87	114	13101	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.66	117	14080	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.59	152	7184	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	7103	86.87	ug/l	0.00
Spiked Amount			Recovery	=	173.74%	
35) Dibromofluoromethane	7.91	113	5336	64.81	ug/l	0.00
Spiked Amount			Recovery	=	129.62%	
50) Toluene-d8	10.34	98	15643	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
62) 4-Bromofluorobenzene	12.64	95	5931	60.99	ug/l	0.00
Spiked Amount			Recovery	=	121.98%	

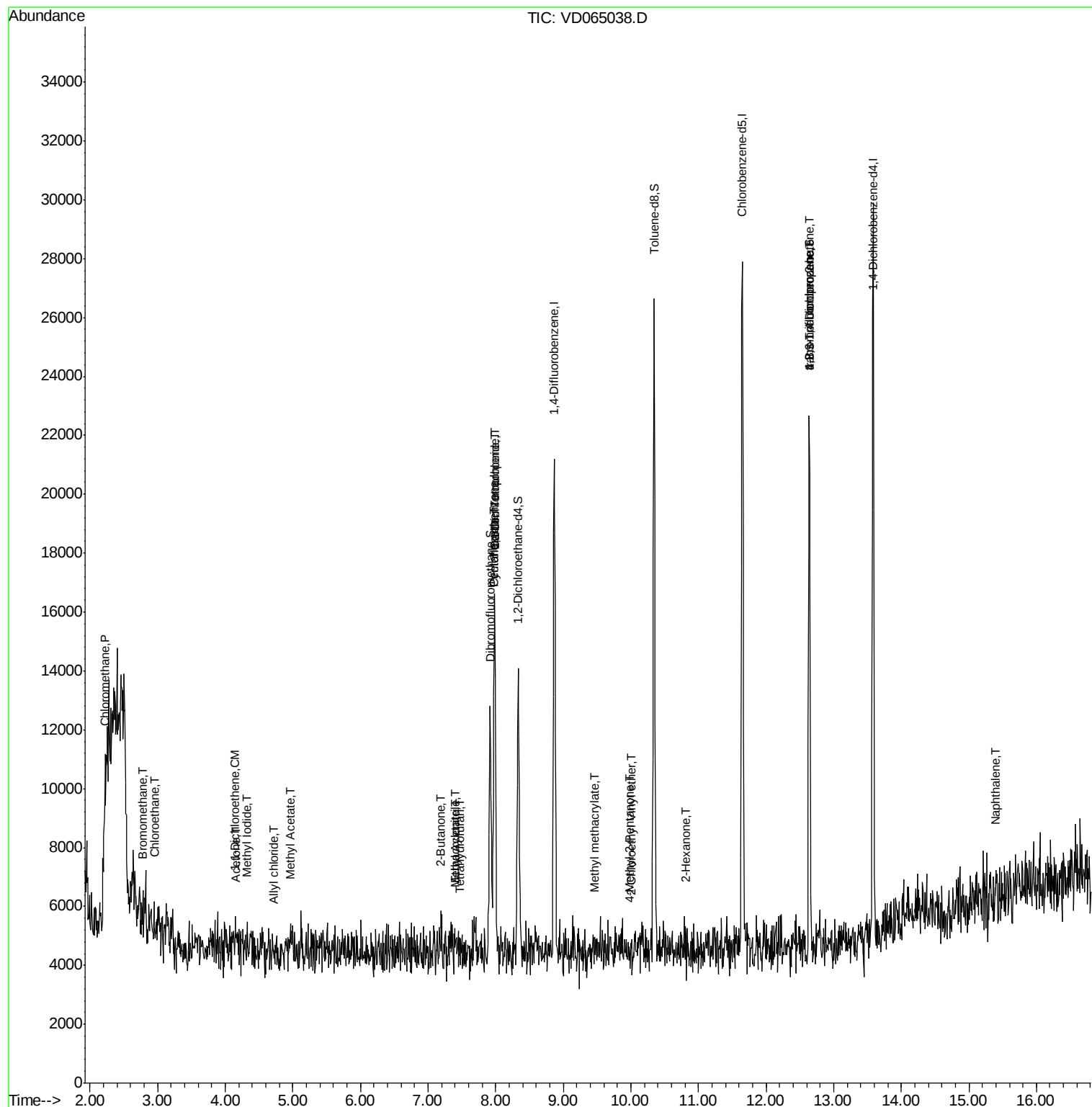
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	514	5.461	ug/l #	69
5) Bromomethane	2.79	94	539	7.413	ug/l	98
6) Chloroethane	2.95	64	139	1.950	ug/l #	43
10) Methyl Iodide	4.31	142	137	1.662	ug/l #	39
12) 1,1-Dichloroethene	4.16	96	139	1.873	ug/l #	1
14) Allyl chloride	4.71	41	136	1.149	ug/l #	19
16) Acetone	4.17	43	99	17.910	ug/l #	45
18) Methyl Acetate	4.97	43	142	3.708	ug/l #	51
20) Methylene Chloride	4.97	84	76	Below Cal	#	50
25) 2-Butanone	7.18	43	91	4.120	ug/l #	49
29) Tetrahydrofuran	7.47	42	57	4.182	ug/l #	34
31) Cyclohexane	7.97	56	151	1.060	ug/l #	14
36) 1,1-Dichloropropene	7.98	75	901	7.132	ug/l #	42
37) Ethyl Acetate	7.40	43	64	1.226	ug/l #	69
38) Carbon Tetrachloride	7.98	117	941	7.047	ug/l #	14
41) Methacrylonitrile	7.41	41	120	4.269	ug/l #	24
48) Methyl methacrylate	9.46	41	65	1.425	ug/l #	6
51) 4-Methyl-2-Pentanone	9.98	43	93	1.875	ug/l #	37
58) 2-Chloroethyl Vinyl ether	10.02	63	59	2.394	ug/l #	46
59) 2-Hexanone	10.81	43	75	2.192	ug/l #	25
76) 1,2,3-Trichloropropane	12.64	75	2807	47.075	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	2807	100.517	ug/l #	9
95) Naphthalene	15.41	128	277	1.268	ug/l #	68

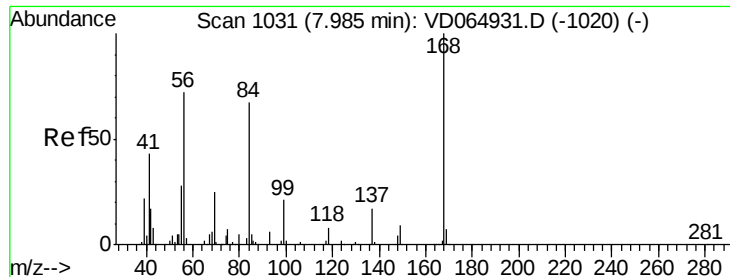
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD013120\
Data File : VD065038.D
Acq On : 31 Jan 2020 17:16
Operator : VA/SY
Sample : L1345-02
Misc : 5.05G/5.00ml/MSVOA D/SOIL
ALS Vial : 16 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
01-31-B

Quant Time: Feb 03 00:18:20 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D012320S.M
Quant Title : SW846 8260
QLast Update : Thu Jan 23 13:45:59 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD065038.D

Acq: 31 Jan 2020 17:16

Instrument :

MSVOA_D

ClientSampleId :

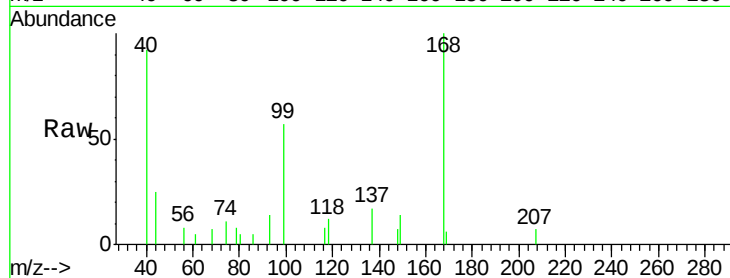
01-31-B

Tot Ion:168 Resp: 8524

Ion Ratio Lower Upper

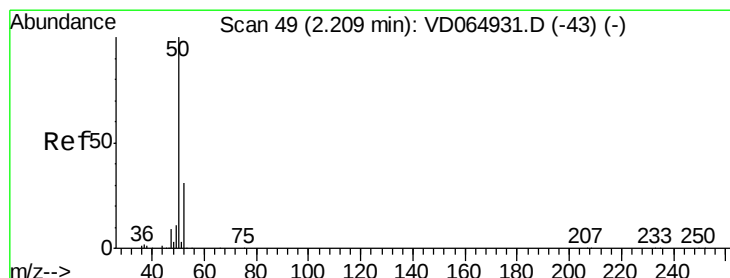
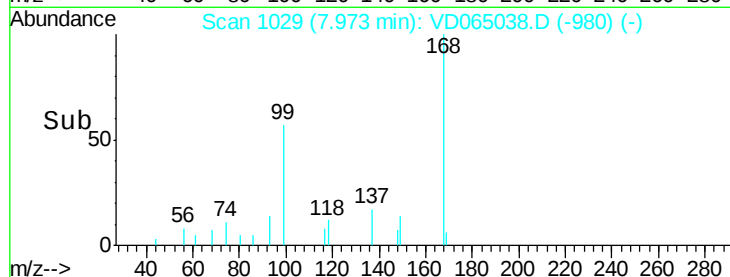
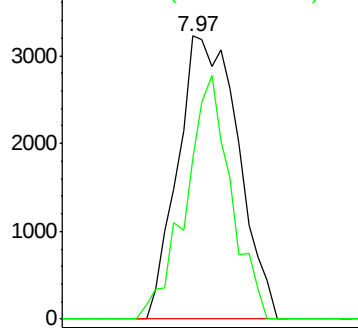
168 100

99 56.9 43.3 64.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 5.461 ug/l

RT: 2.21 min Scan# 49

Delta R.T. -0.00 min

Lab File: VD065038.D

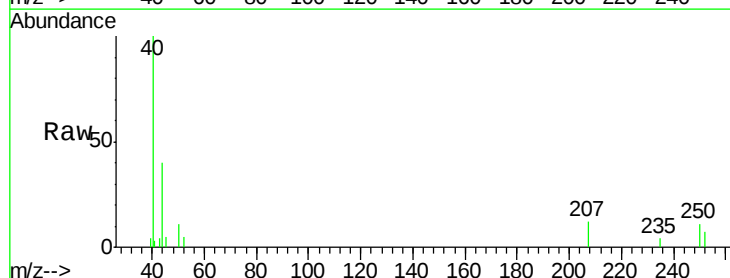
Acq: 31 Jan 2020 17:16

Tgt Ion: 50 Resp: 514

Ion Ratio Lower Upper

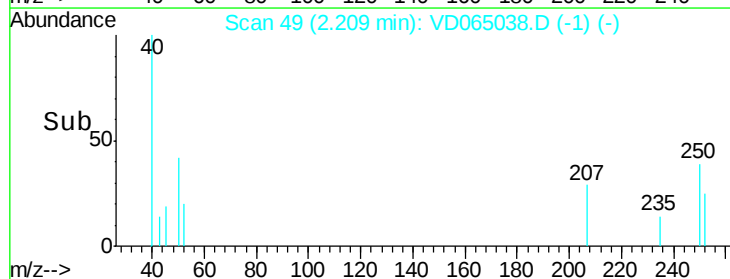
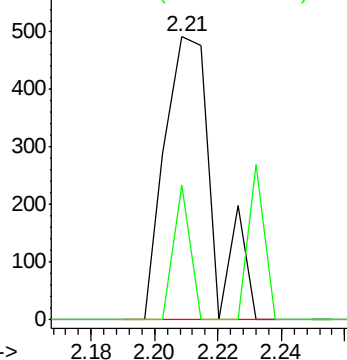
50 100

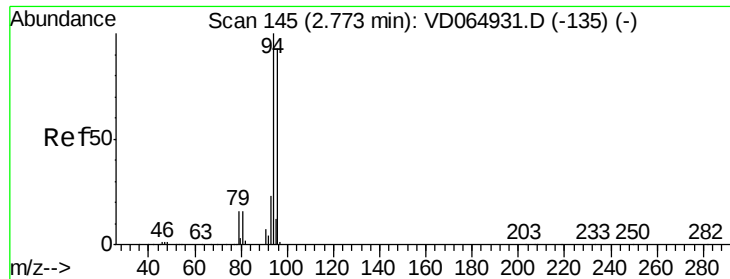
52 47.6 24.6 36.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 7.413 ug/l

RT: 2.79 min Scan# 148

Delta R.T. 0.02 min

Lab File: VD065038.D

Acq: 31 Jan 2020 17:16

Instrument :

MSVOA_D

ClientSampleId :

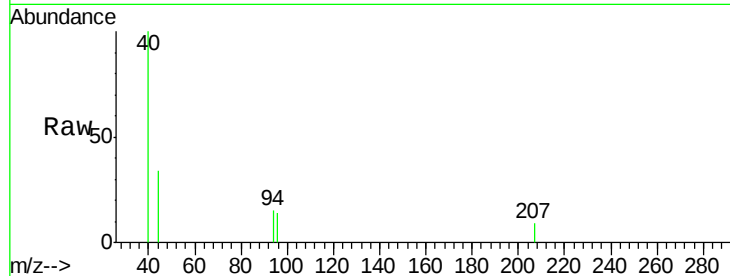
01-31-B

Tot Ion: 94 Resp: 539

Ion Ratio Lower Upper

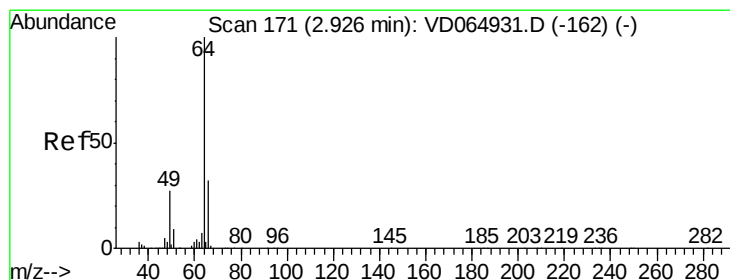
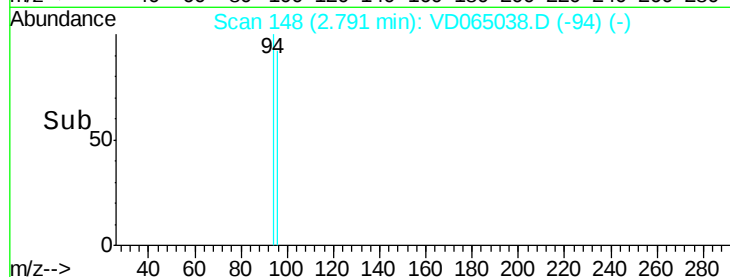
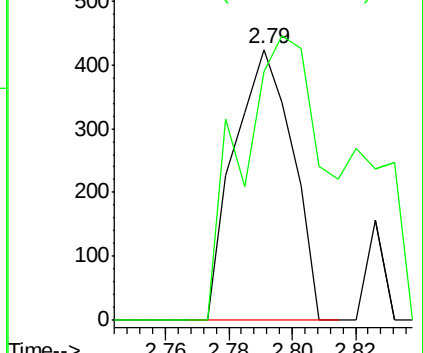
94 100

96 91.5 74.6 111.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 1.950 ug/l

RT: 2.95 min Scan# 175

Delta R.T. 0.02 min

Lab File: VD065038.D

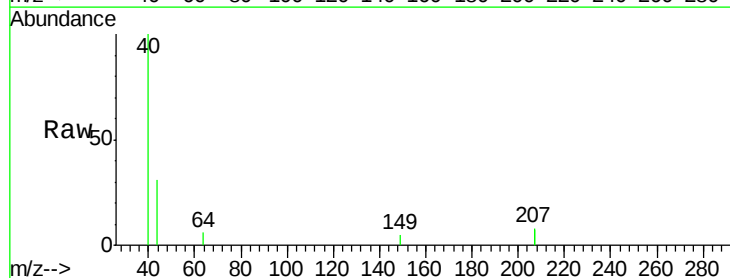
Acq: 31 Jan 2020 17:16

Tgt Ion: 64 Resp: 139

Ion Ratio Lower Upper

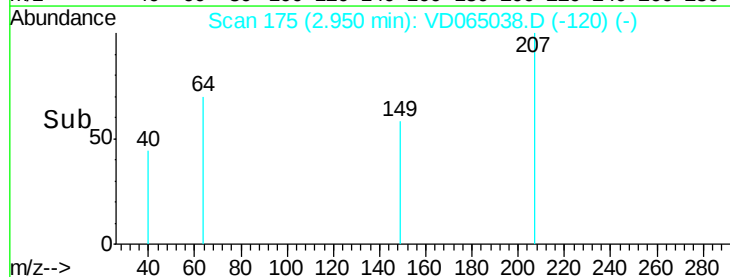
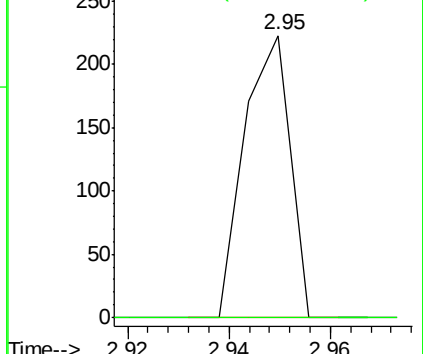
64 100

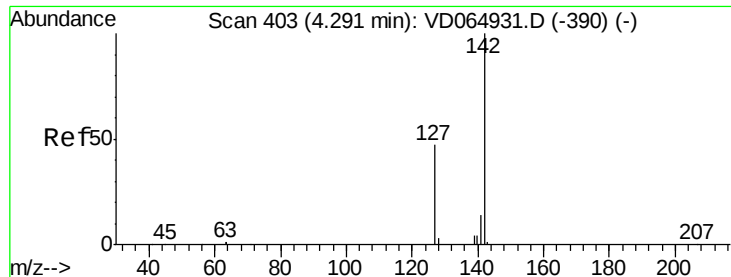
66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC

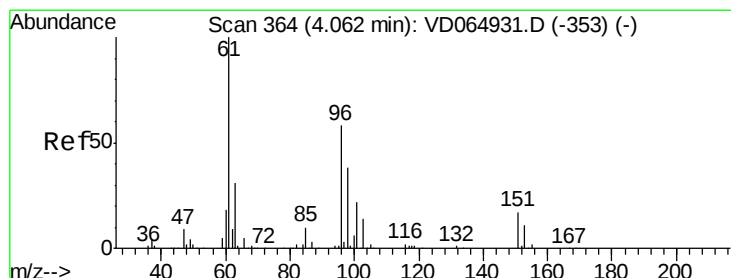
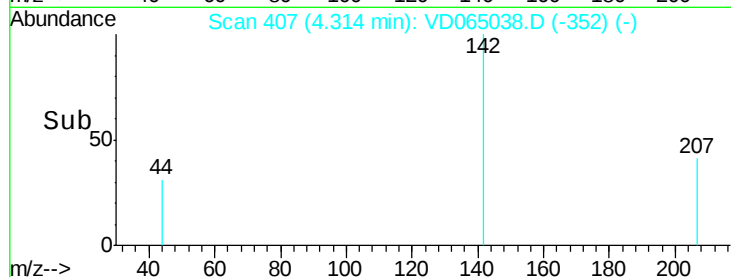
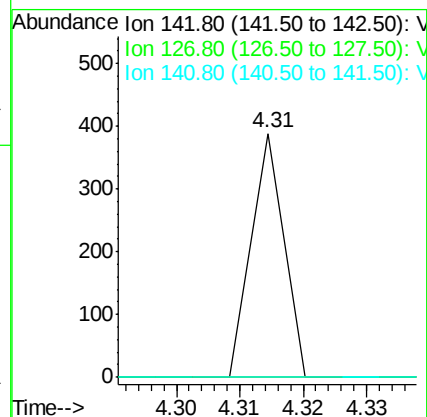
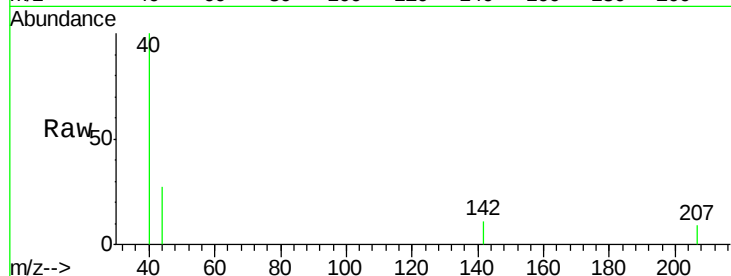




#10
Methyl Iodide
Concen: 1.662 ug/l
RT: 4.31 min Scan# 407
Delta R.T. 0.02 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

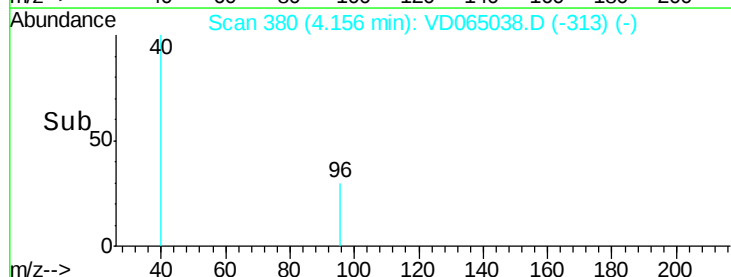
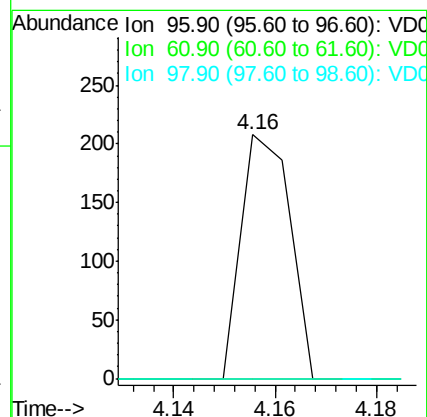
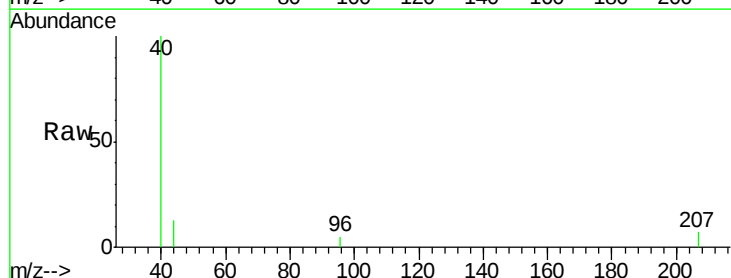
Instrument :
MSVOA_D
ClientSampleId :
01-31-B

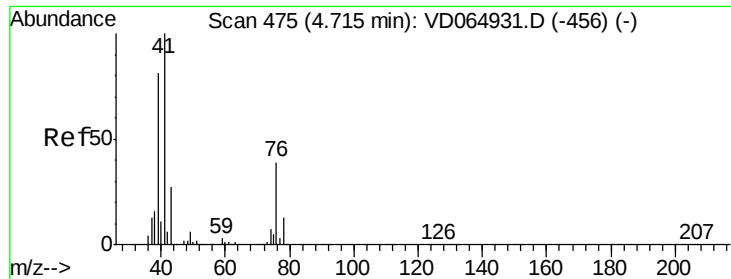
Tot Ion: 142 Resp: 137
Ion Ratio Lower Upper
142 100
127 0.0 36.2 54.2#
141 0.0 11.6 17.4#



#12
1,1-Dichloroethene
Concen: 1.873 ug/l
RT: 4.16 min Scan# 380
Delta R.T. 0.09 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

Tgt Ion: 96 Resp: 139
Ion Ratio Lower Upper
96 100
61 0.0 137.0 205.4#
98 0.0 52.1 78.1#

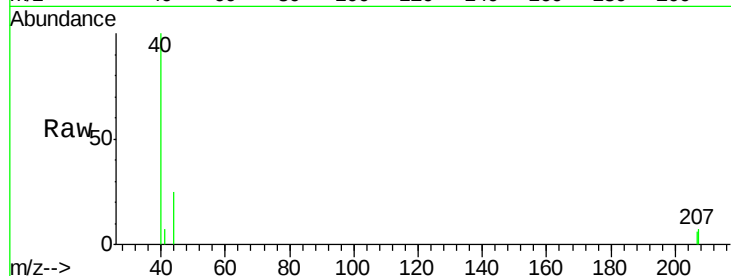




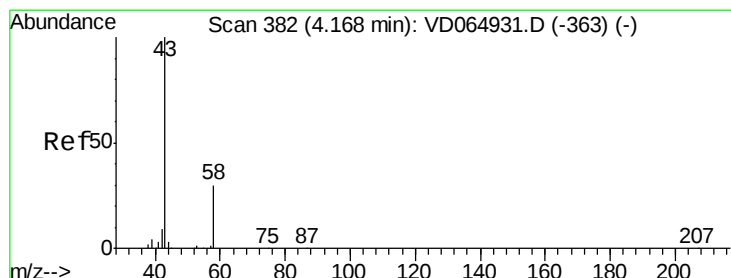
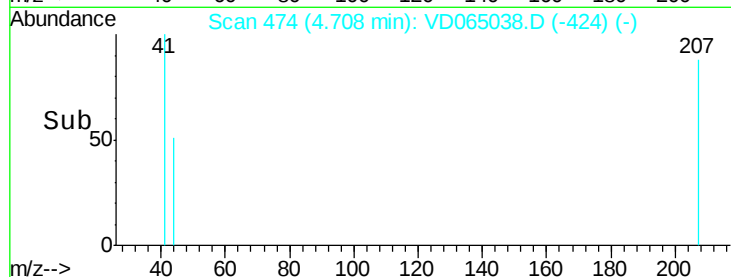
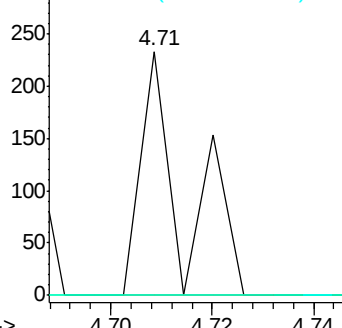
#14
Allvl chloride
Concen: 1.149 ug/l
RT: 4.71 min Scan# 474
Delta R.T. -0.01 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

Instrument :
MSVOA_D
ClientSampled :
01-31-B

Tot Ion: 41 Resp: 136
Ion Ratio Lower Upper
41 100
39 0.0 62.0 93.0#
76 0.0 29.3 43.9#

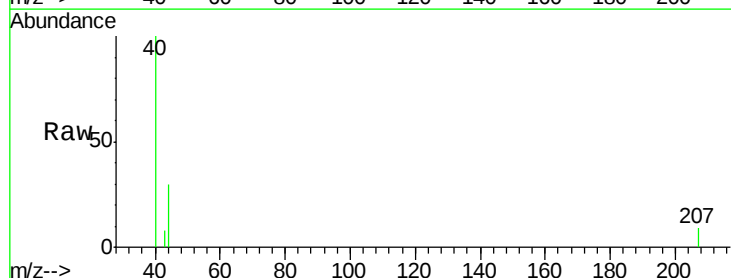


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 75.90 (75.60 to 76.60): VDC

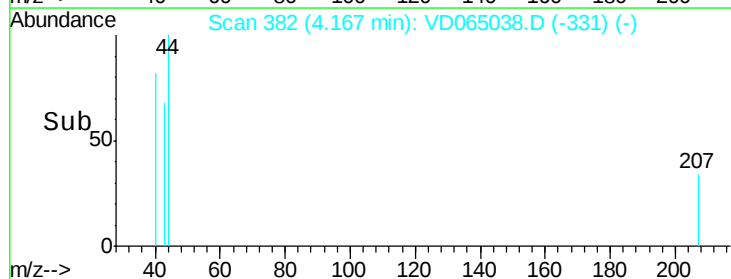
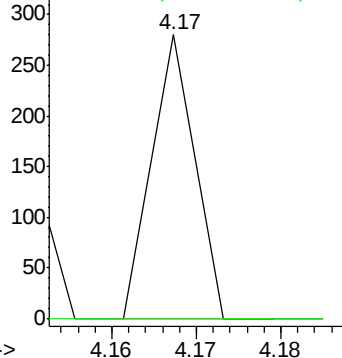


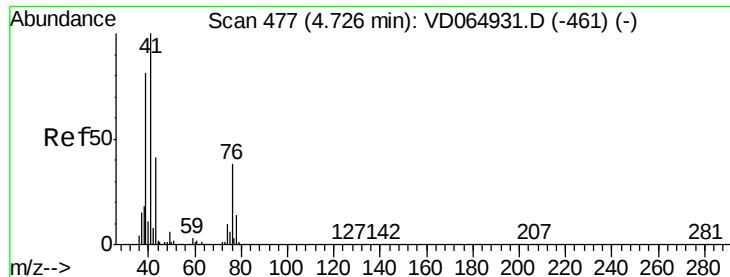
#16
Acetone
Concen: 17.910 ug/l
RT: 4.17 min Scan# 382
Delta R.T. 0.00 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

Tgt Ion: 43 Resp: 99
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

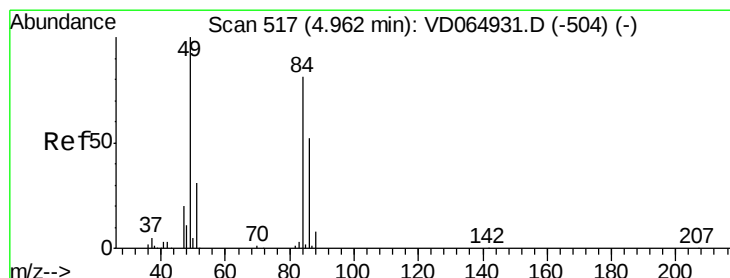
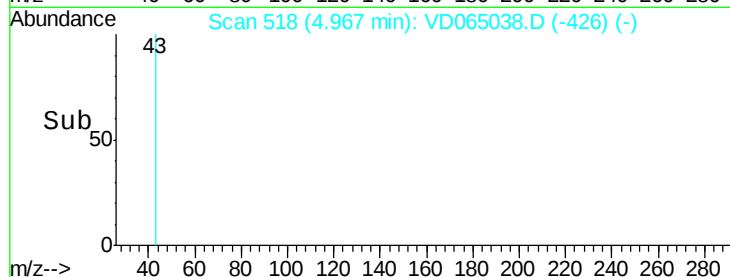
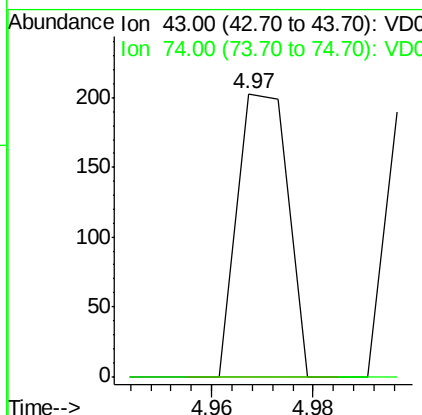
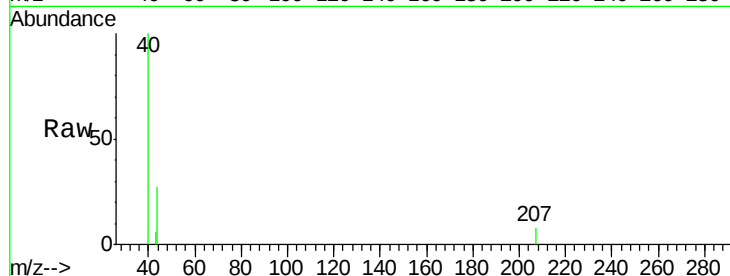




#18
Methyl Acetate
Concen: 3.708 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.24 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

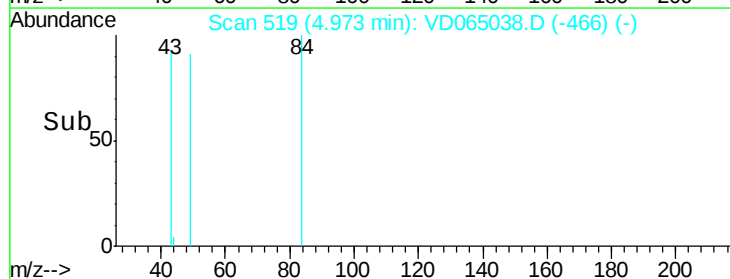
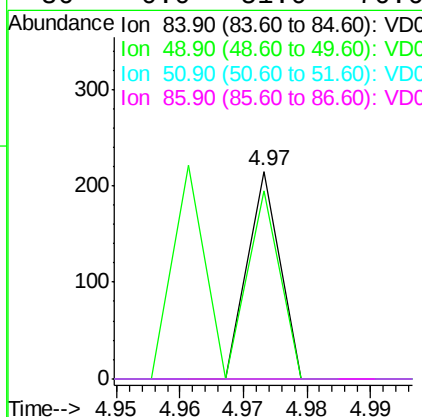
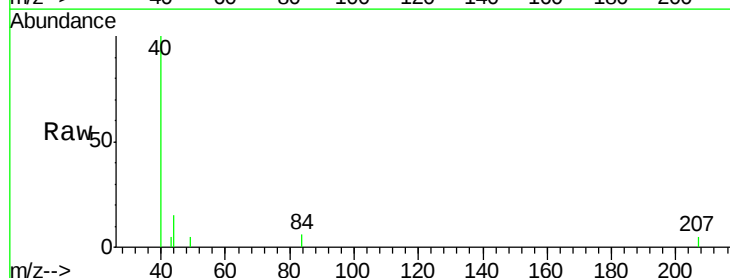
Instrument :
MSVOA_D
ClientSampleId :
01-31-B

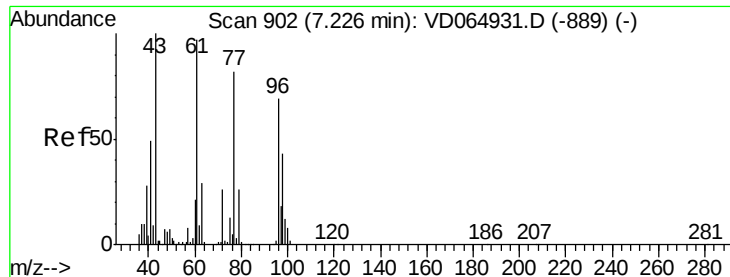
Tot Ion: 43 Resp: 142
Ion Ratio Lower Upper
43 100
74 0.0 19.1 28.7#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

Tgt Ion: 84 Resp: 76
Ion Ratio Lower Upper
84 100
49 90.7 98.4 147.6#
51 0.0 30.8 46.2#
86 0.0 51.0 76.6#





#25

2-Butanone

Concen: 4.120 ug/l

RT: 7.18 min Scan# 895

Delta R.T. -0.04 min

Lab File: VD065038.D

Acq: 31 Jan 2020 17:16

Instrument :

MSVOA_D

ClientSampled :

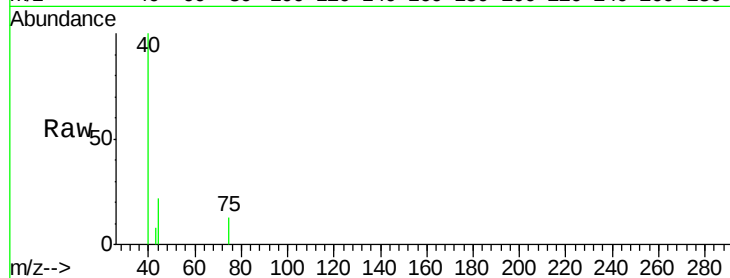
01-31-B

Tot Ion: 43 Resp: 91

Ion Ratio Lower Upper

43 100

72 0.0 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.18

250

200

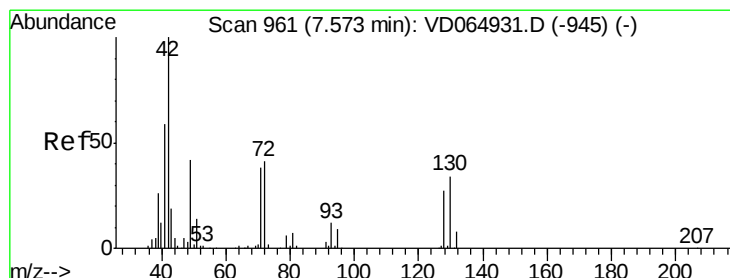
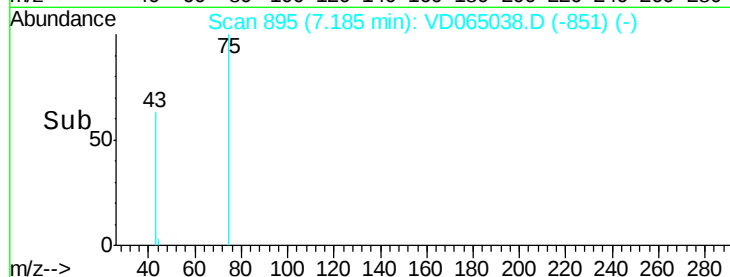
150

100

50

0

Time-->



#29

Tetrahydrofuran

Concen: 4.182 ug/l

RT: 7.47 min Scan# 943

Delta R.T. -0.11 min

Lab File: VD065038.D

Acq: 31 Jan 2020 17:16

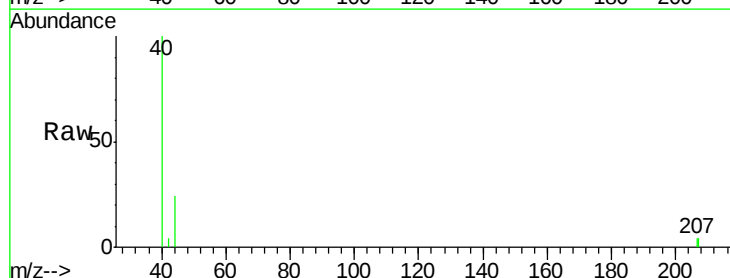
Tgt Ion: 42 Resp: 57

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

200

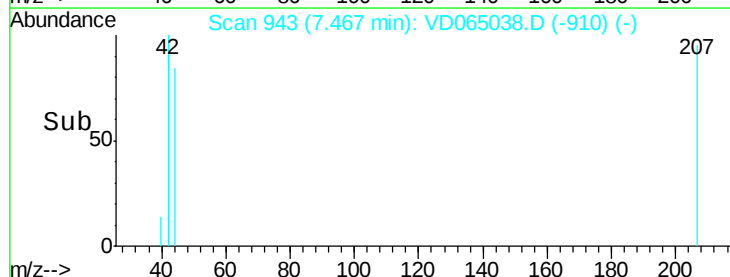
150

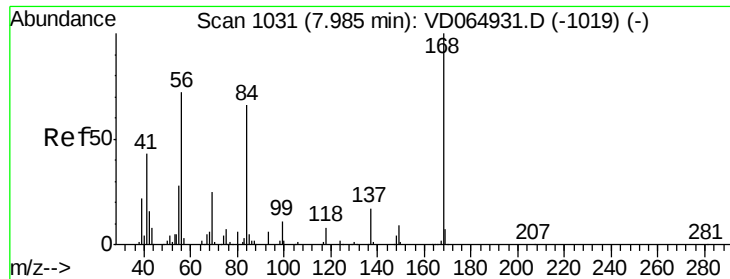
100

50

0

Time-->

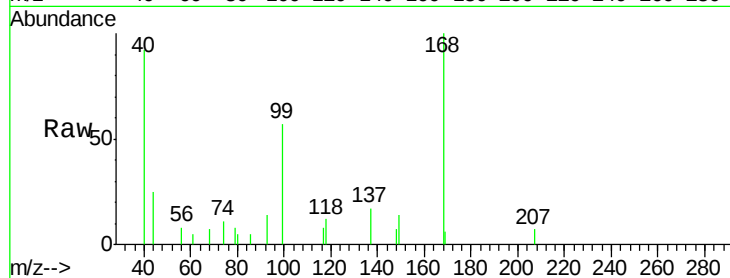




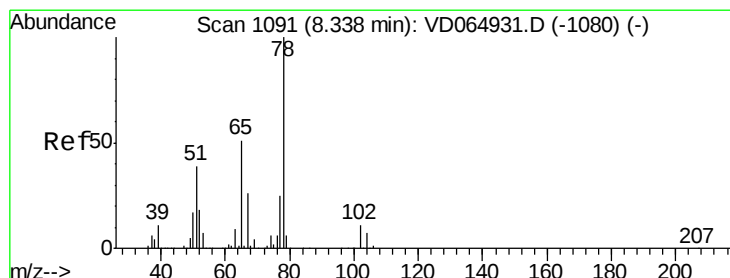
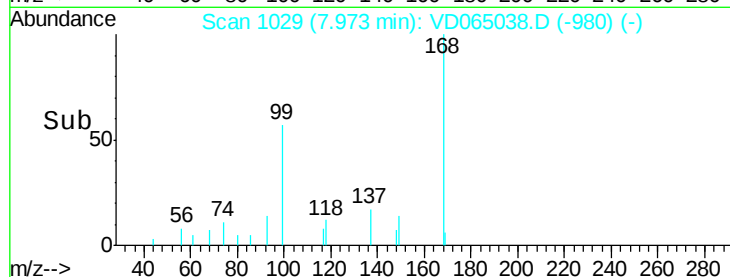
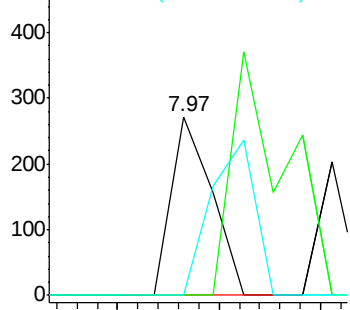
#31
Cyclohexane
Concen: 1.060 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

Instrument :
MSVOA_D
ClientSampleId :
01-31-B

Tot Ion: 56 Resp: 151
Ion Ratio Lower Upper
56 100
69 0.0 27.9 41.9#
84 0.0 72.8 109.2#

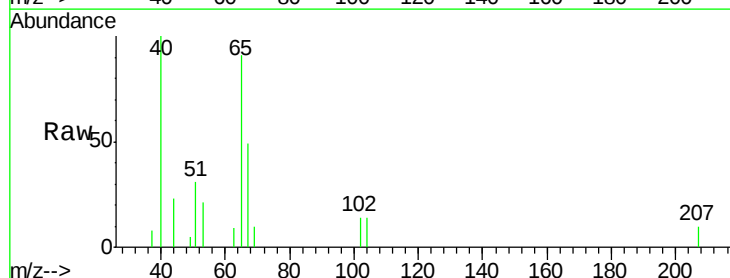


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

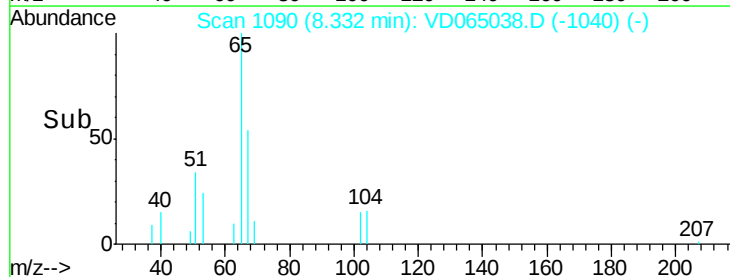
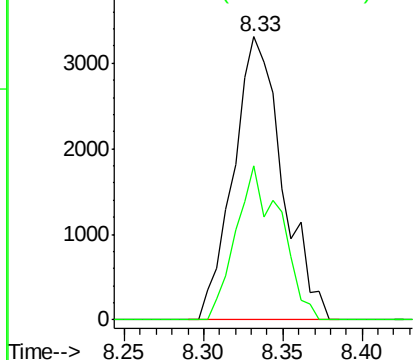


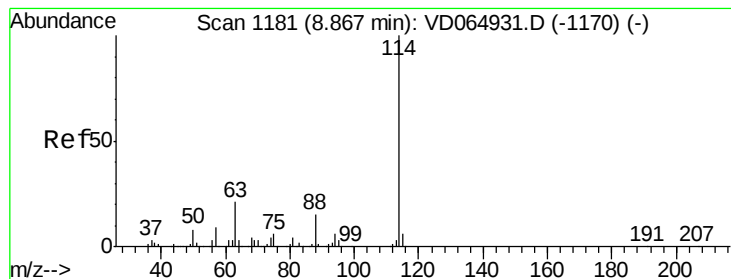
#33
1,2-Dichloroethane-d4
Concen: 86.872 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. -0.01 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

Tgt Ion: 65 Resp: 7103
Ion Ratio Lower Upper
65 100
67 49.8 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: VD065038.D

Acq: 31 Jan 2020 17:16

Instrument :

MSVOA_D

ClientSampleId :

01-31-B

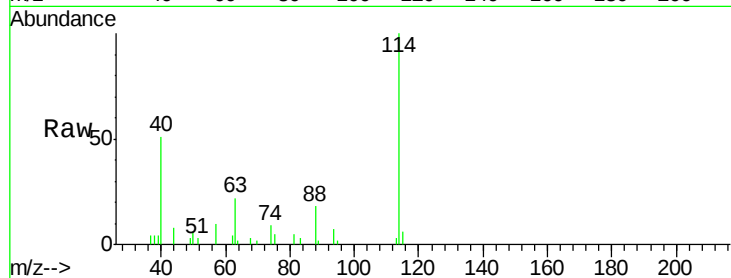
Tot Ion:114 Resp: 13101

Ion Ratio Lower Upper

114 100

63 21.8 0.0 42.0

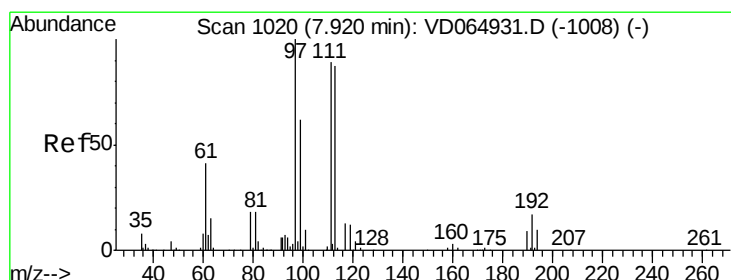
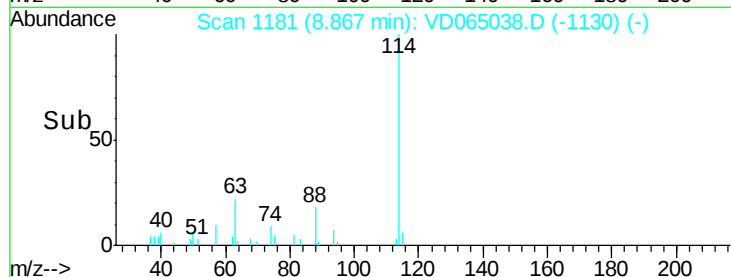
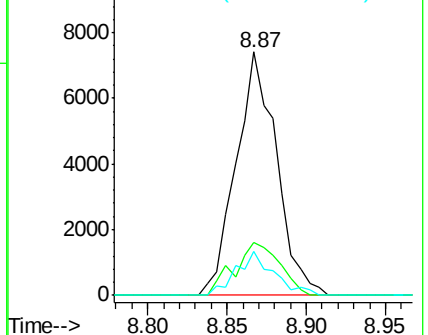
88 17.8 0.0 29.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC



#35

Dibromofluoromethane

Concen: 64.814 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD065038.D

Acq: 31 Jan 2020 17:16

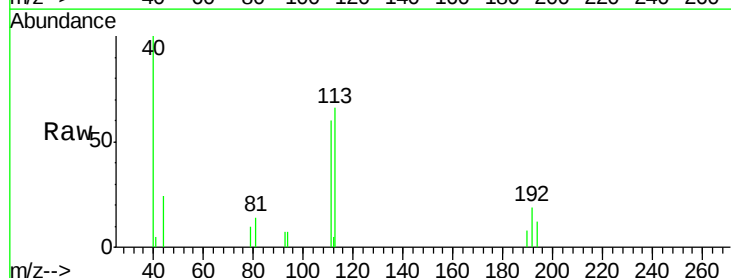
Tgt Ion:113 Resp: 5336

Ion Ratio Lower Upper

113 100

111 101.0 82.4 123.6

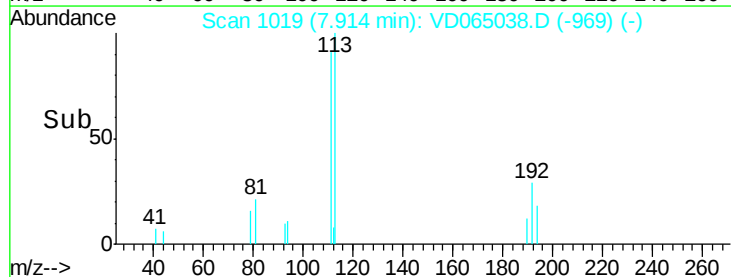
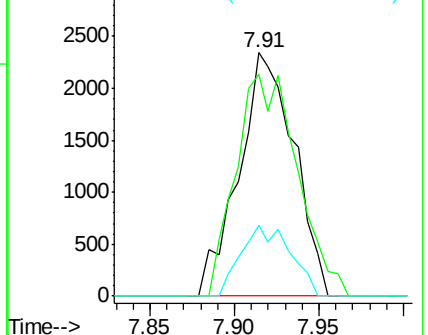
192 26.1 16.9 25.3#

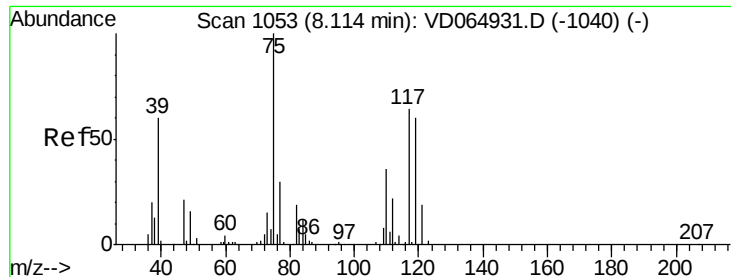


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 7.132 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD065038.D

Acq: 31 Jan 2020 17:16

Instrument :

MSVOA_D

ClientSampleId :

01-31-B

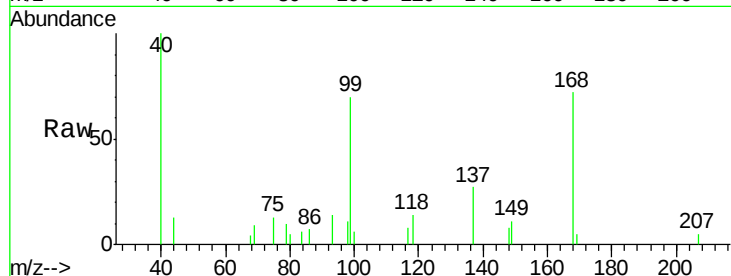
Tot Ion: 75 Resp: 901

Ion Ratio Lower Upper

75 100

110 0.0 17.3 52.0#

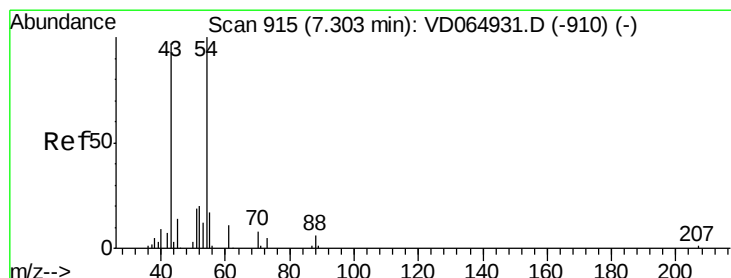
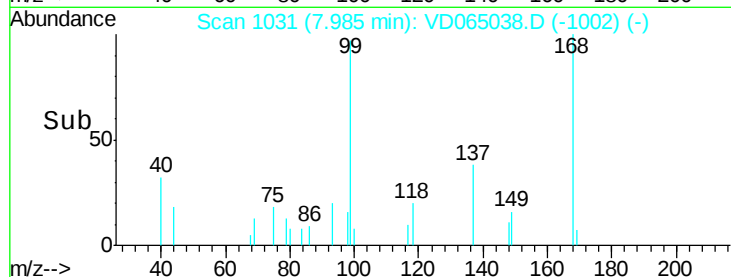
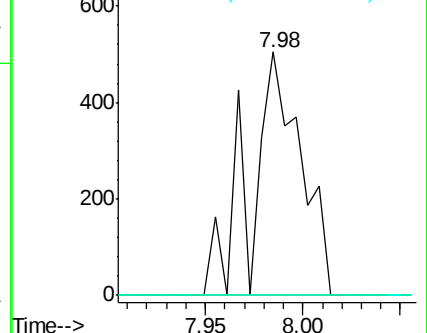
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#37

Ethyl Acetate

Concen: 1.226 ug/l

RT: 7.40 min Scan# 932

Delta R.T. 0.10 min

Lab File: VD065038.D

Acq: 31 Jan 2020 17:16

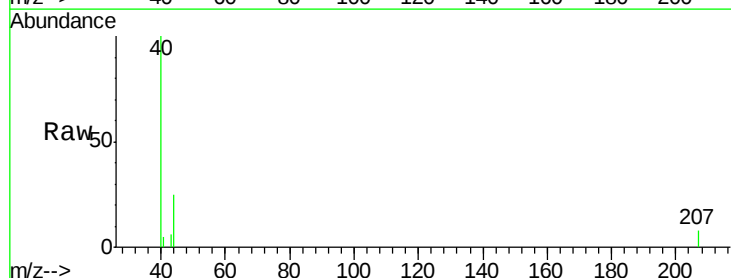
Tgt Ion: 43 Resp: 64

Ion Ratio Lower Upper

43 100

61 0.0 11.0 16.4#

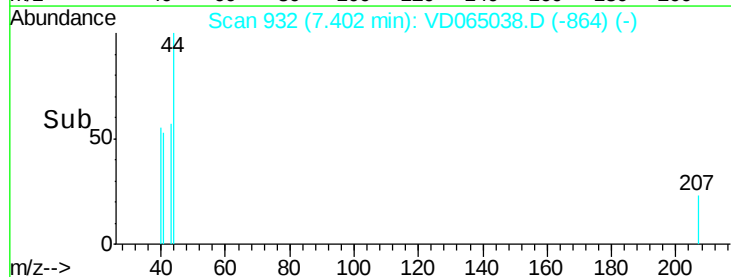
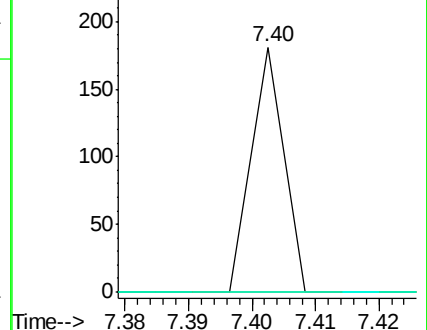
70 0.0 7.5 11.3#

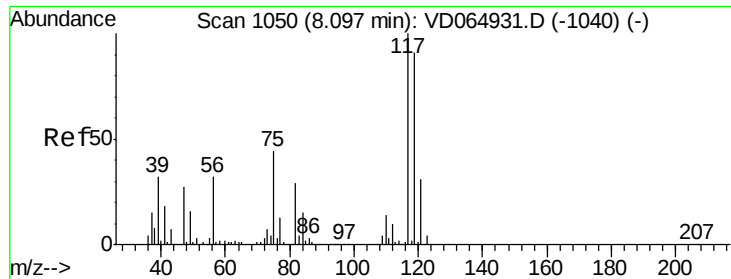


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 7.047 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD065038.D

Acq: 31 Jan 2020 17:16

Instrument :

MSVOA_D

ClientSampleId :

01-31-B

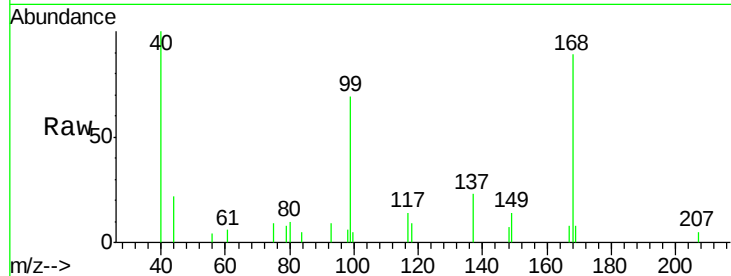
Tot Ion:117 Resp: 941

Ion Ratio Lower Upper

117 100

119 0.0 73.2 109.8#

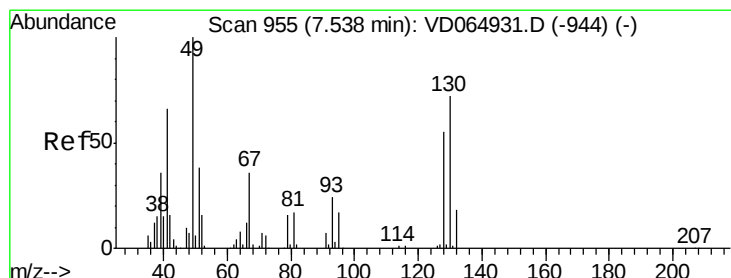
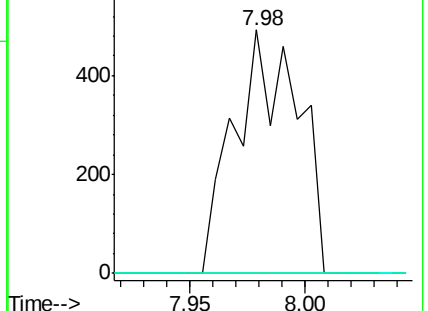
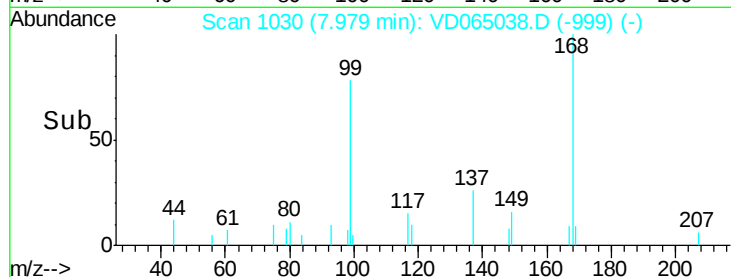
121 0.0 24.4 36.6#



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



#41

Methacrylonitrile

Concen: 4.269 ug/l

RT: 7.41 min Scan# 933

Delta R.T. -0.13 min

Lab File: VD065038.D

Acq: 31 Jan 2020 17:16

Tgt Ion: 41 Resp: 120

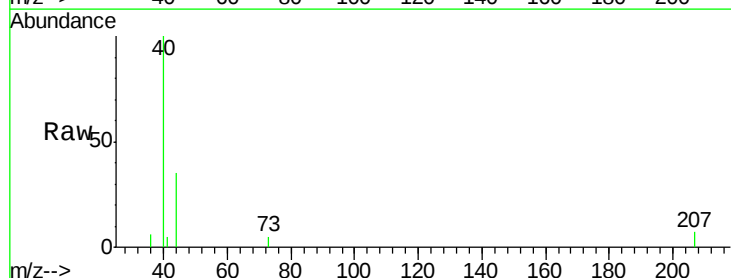
Ion Ratio Lower Upper

41 100

39 0.0 49.3 73.9#

67 0.0 51.0 76.6#

52 0.0 22.3 33.5#

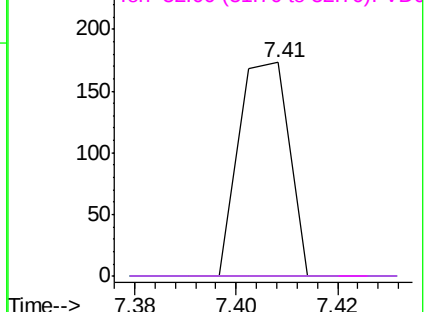
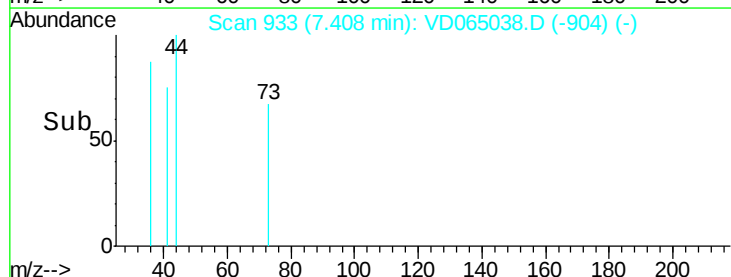


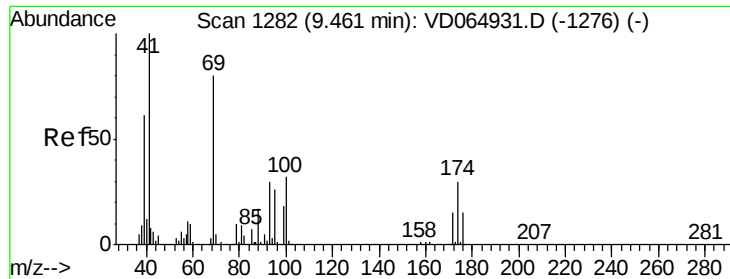
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V

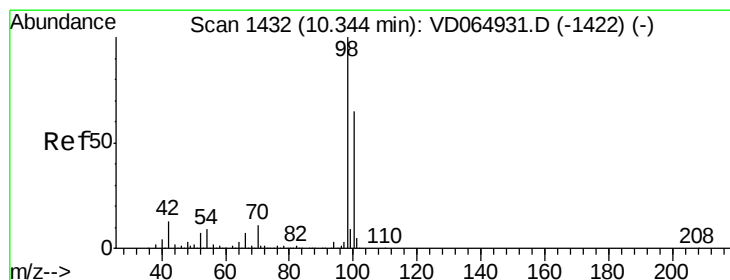
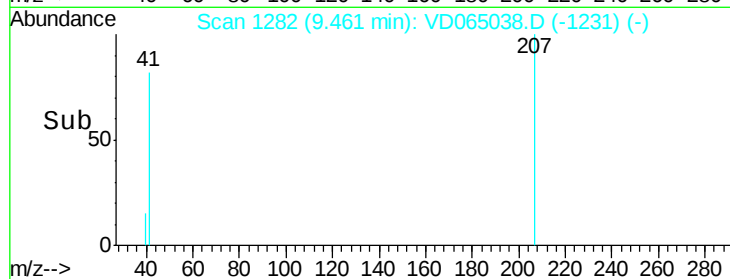
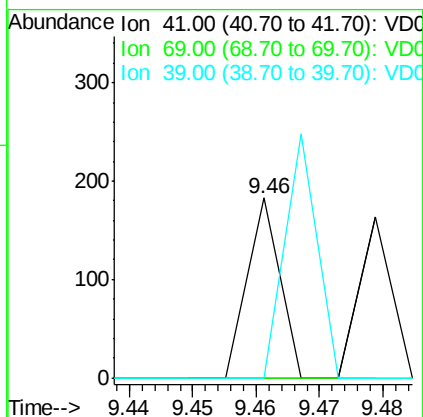
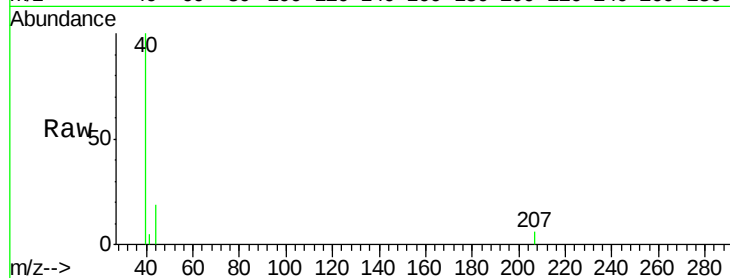




#48
Methvl methacrylate
Concen: 1.425 ug/l
RT: 9.46 min Scan# 1282
Delta R.T. -0.00 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

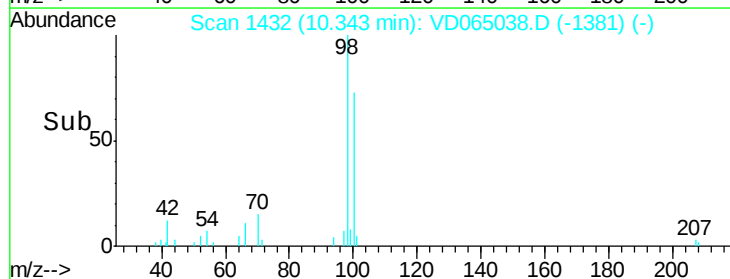
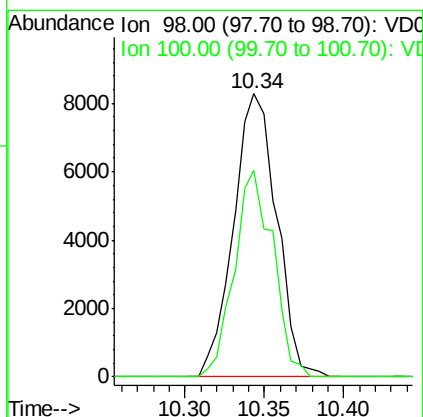
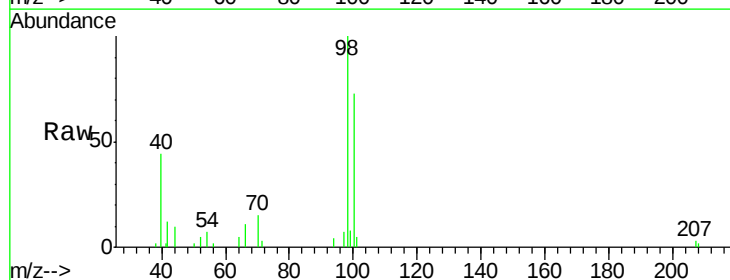
Instrument :
MSVOA_D
ClientSampleId :
01-31-B

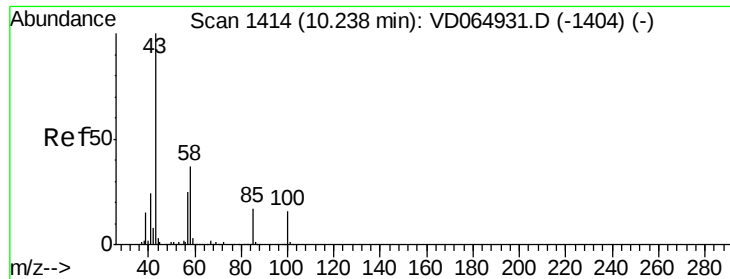
Tot Ion: 41 Resp: 65
Ion Ratio Lower Upper
41 100
69 0.0 65.8 98.8#
39 135.4 49.4 74.0#



#50
Toluene-d8
Concen: 49.229 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

Tgt Ion: 98 Resp: 15643
Ion Ratio Lower Upper
98 100
100 65.3 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 1.875 ug/l

RT: 9.98 min Scan# 1370

Delta R.T. -0.26 min

Lab File: VD065038.D

Acq: 31 Jan 2020 17:16

Instrument :

MSVOA_D

ClientSampleId :

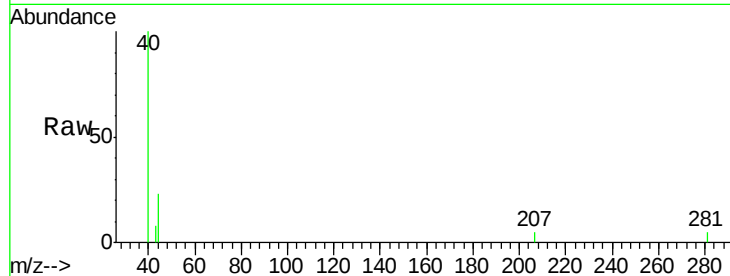
01-31-B

Tot Ion: 43 Resp: 93

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

9.98

250

200

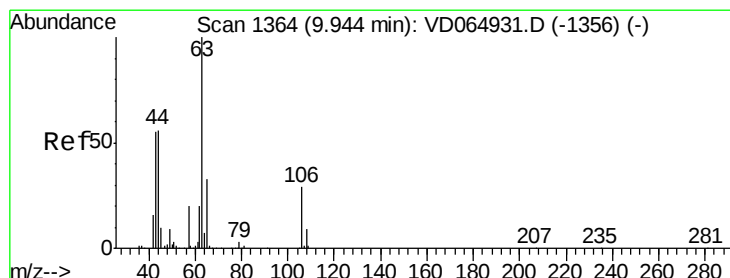
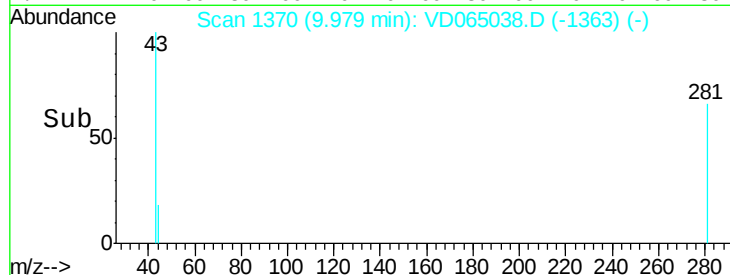
150

100

50

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 2.394 ug/l

RT: 10.02 min Scan# 1377

Delta R.T. 0.08 min

Lab File: VD065038.D

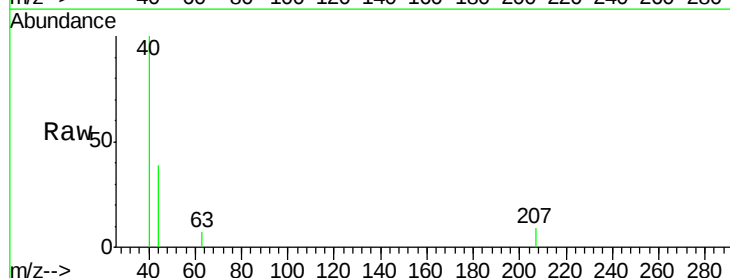
Acq: 31 Jan 2020 17:16

Tgt Ion: 63 Resp: 59

Ion Ratio Lower Upper

63 100

106 0.0 23.0 34.4#



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V

10.02

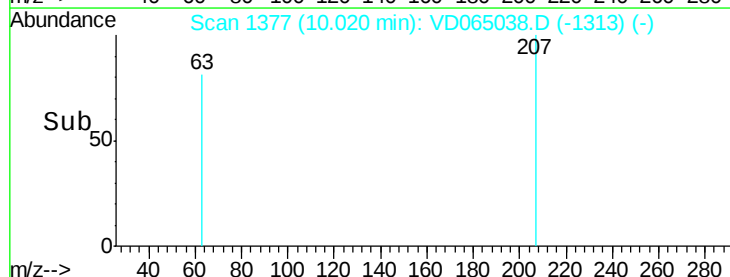
150

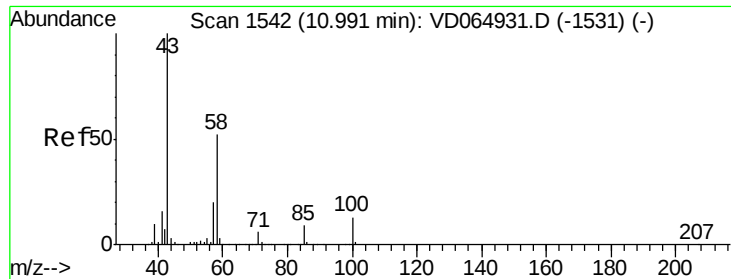
100

50

0

Time-->

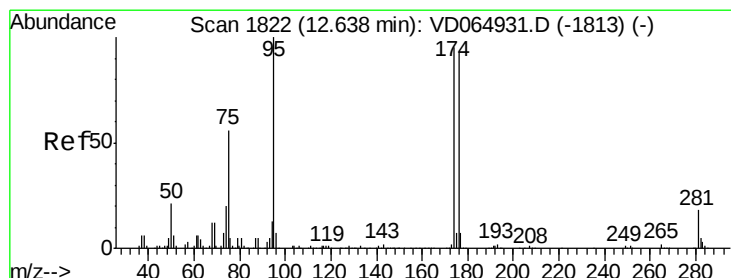
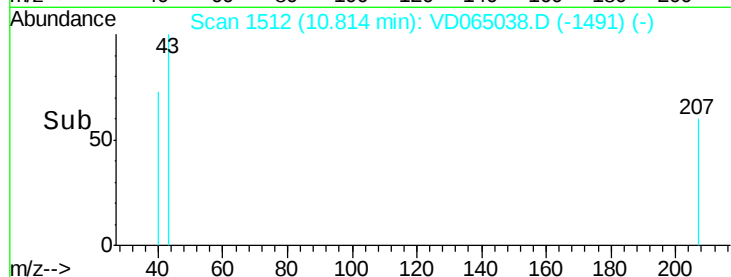
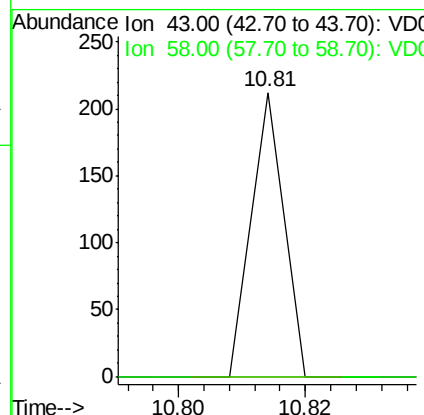
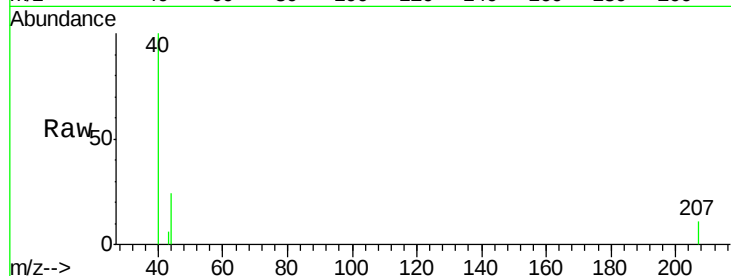




#59
2-Hexanone
Concen: 2.192 ug/l
RT: 10.81 min Scan# 1512
Delta R.T. -0.18 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

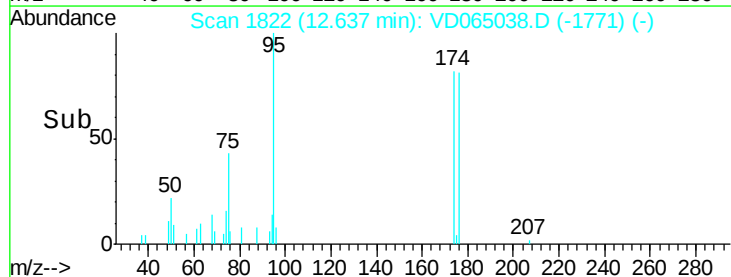
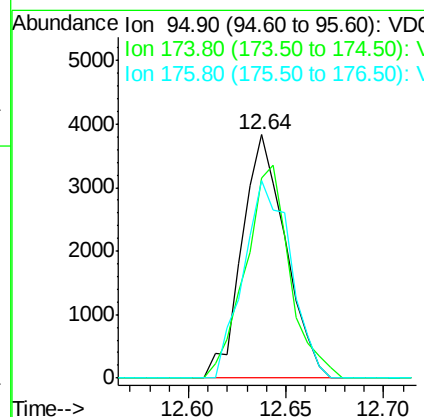
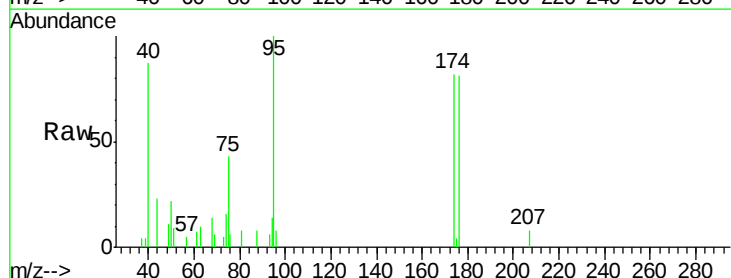
Instrument :
MSVOA_D
ClientSampleId :
01-31-B

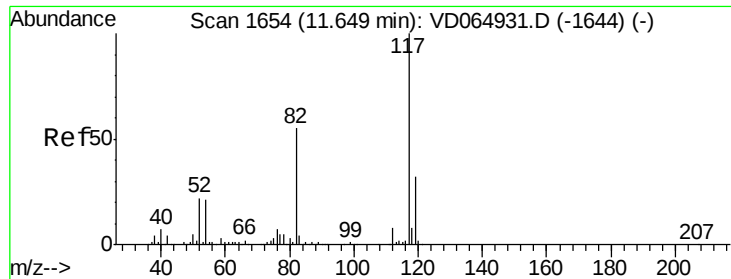
Tot Ion: 43 Resp: 75
Ion Ratio Lower Upper
43 100
58 0.0 26.5 79.4#



#62
4-Bromofluorobenzene
Concen: 60.993 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

Tgt Ion: 95 Resp: 5931
Ion Ratio Lower Upper
95 100
174 88.9 0.0 186.8
176 87.9 0.0 183.4

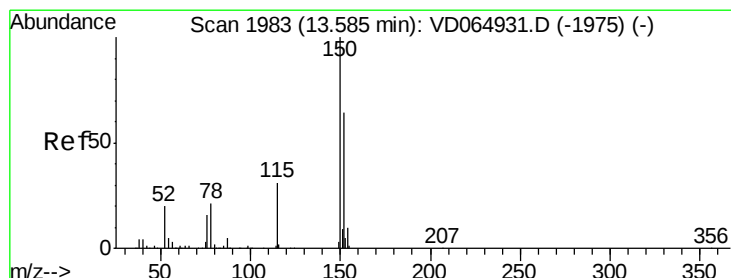
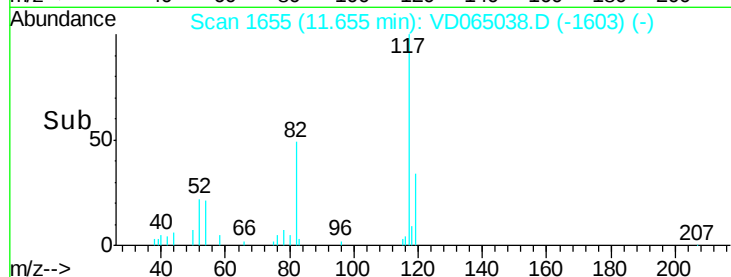
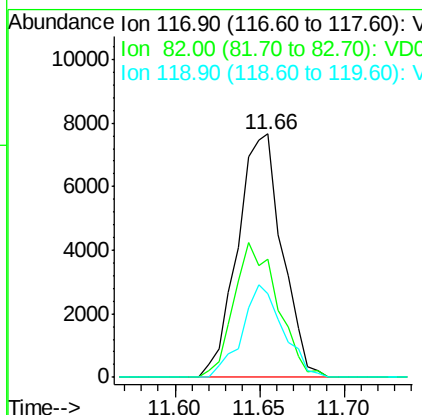
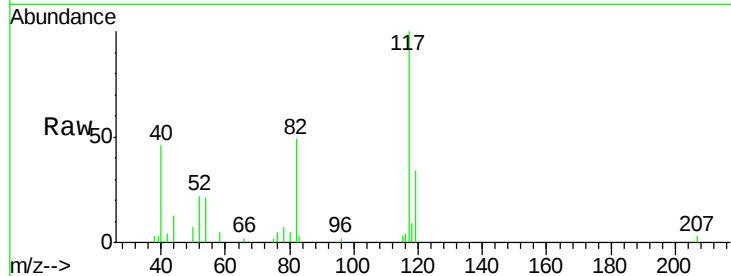




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.66 min Scan# 1655
Delta R.T. 0.01 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

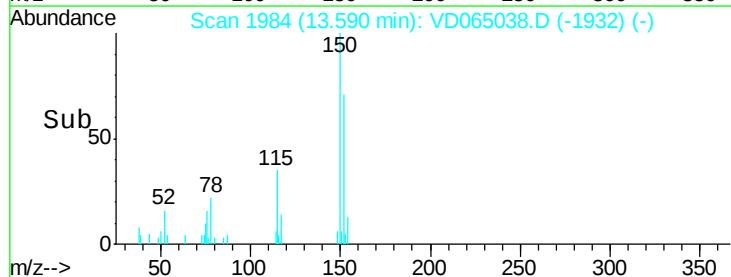
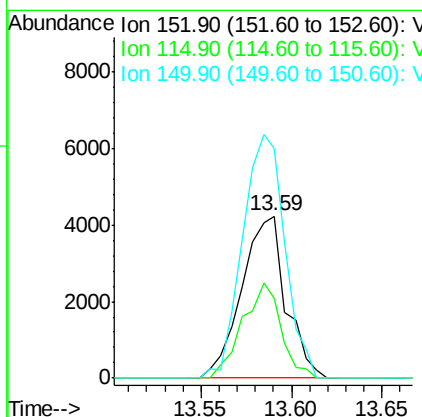
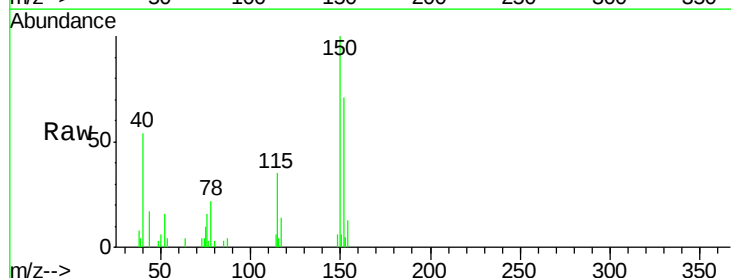
Instrument :
MSVOA_D
ClientSampleId :
01-31-B

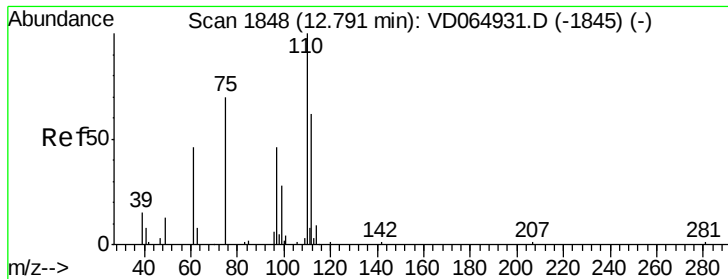
Tot Ion:117 Resp: 14080
Ion Ratio Lower Upper
117 100
82 48.6 43.6 65.4
119 34.3 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.59 min Scan# 1984
Delta R.T. 0.01 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

Tgt Ion:152 Resp: 7184
Ion Ratio Lower Upper
152 100
115 51.1 28.1 84.4
150 143.9 0.0 350.4

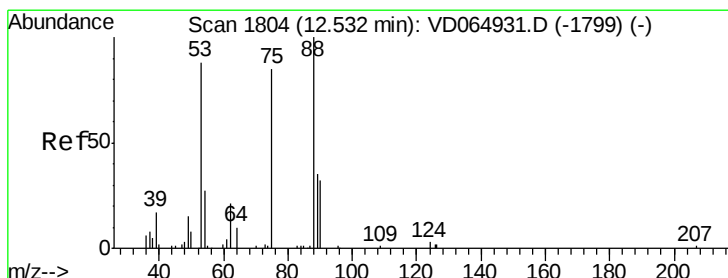
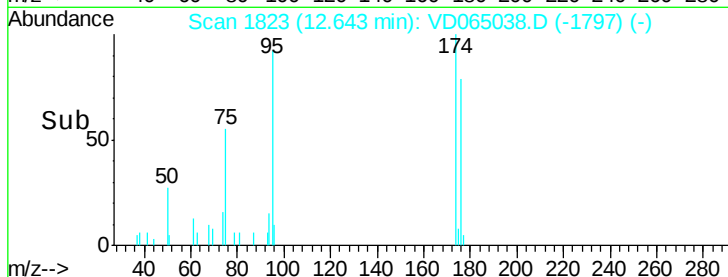
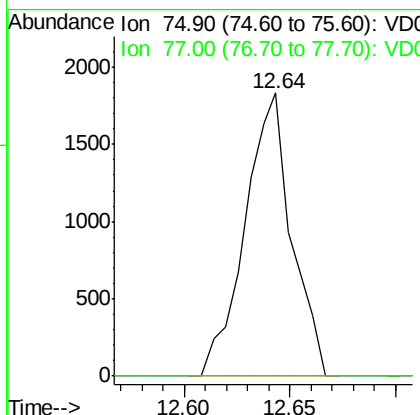
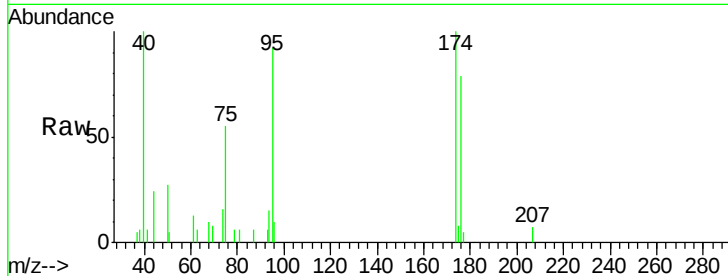




#76
 1,2,3-Trichloropropane
 Concen: 47.075 ug/l
 RT: 12.64 min Scan# 1823
 Delta R.T. -0.15 min
 Lab File: VD065038.D
 Acq: 31 Jan 2020 17:16

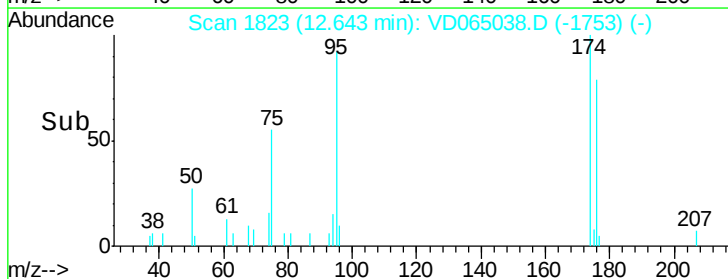
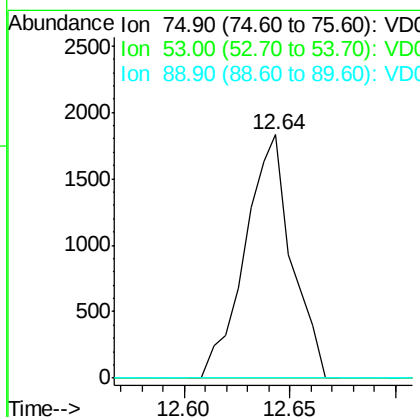
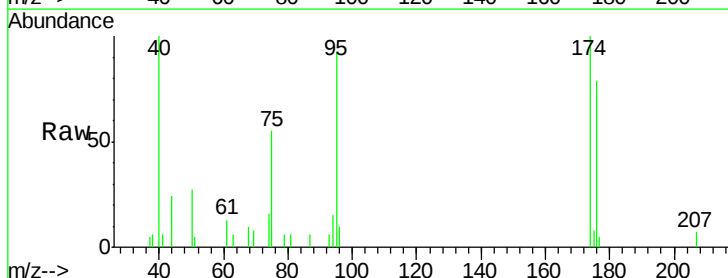
Instrument :
 MSVOA_D
 ClientSampled :
 01-31-B

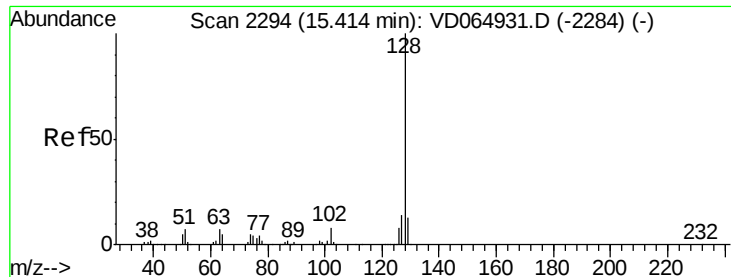
Tot Ion: 75 Resp: 2807
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 100.517 ug/l
 RT: 12.64 min Scan# 1823
 Delta R.T. 0.11 min
 Lab File: VD065038.D
 Acq: 31 Jan 2020 17:16

Tgt Ion: 75 Resp: 2807
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.0 121.4#
 89 0.0 36.2 54.4#

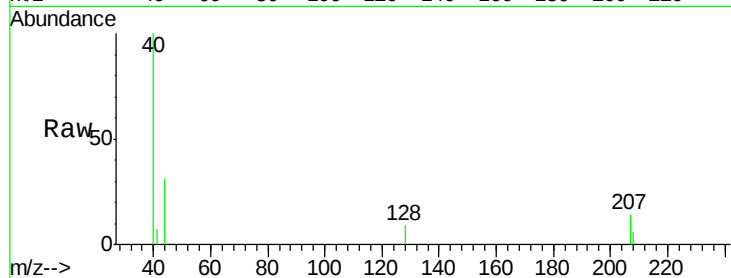




#95
Naphthalene
Concen: 1.268 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.01 min
Lab File: VD065038.D
Acq: 31 Jan 2020 17:16

Instrument :
MSVOA_D
ClientSampleId :
01-31-B

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	0.0	9.3	13.9#



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

