

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031320\
 Data File : VD065502.D
 Acq On : 13 Mar 2020 13:06
 Operator : VA/SY
 Sample : L1761-06RE
 Misc : 7.66G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Mar 16 01:44:03 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 01:22:07 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	37186	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	58653	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	61153	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	25260	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	28238	88.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	177.06%	
35) Dibromofluoromethane	7.92	113	26364	72.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	145.38%	
50) Toluene-d8	10.34	98	68996	49.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.16%	
62) 4-Bromofluorobenzene	12.64	95	21056	49.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.04%	

Target Compounds

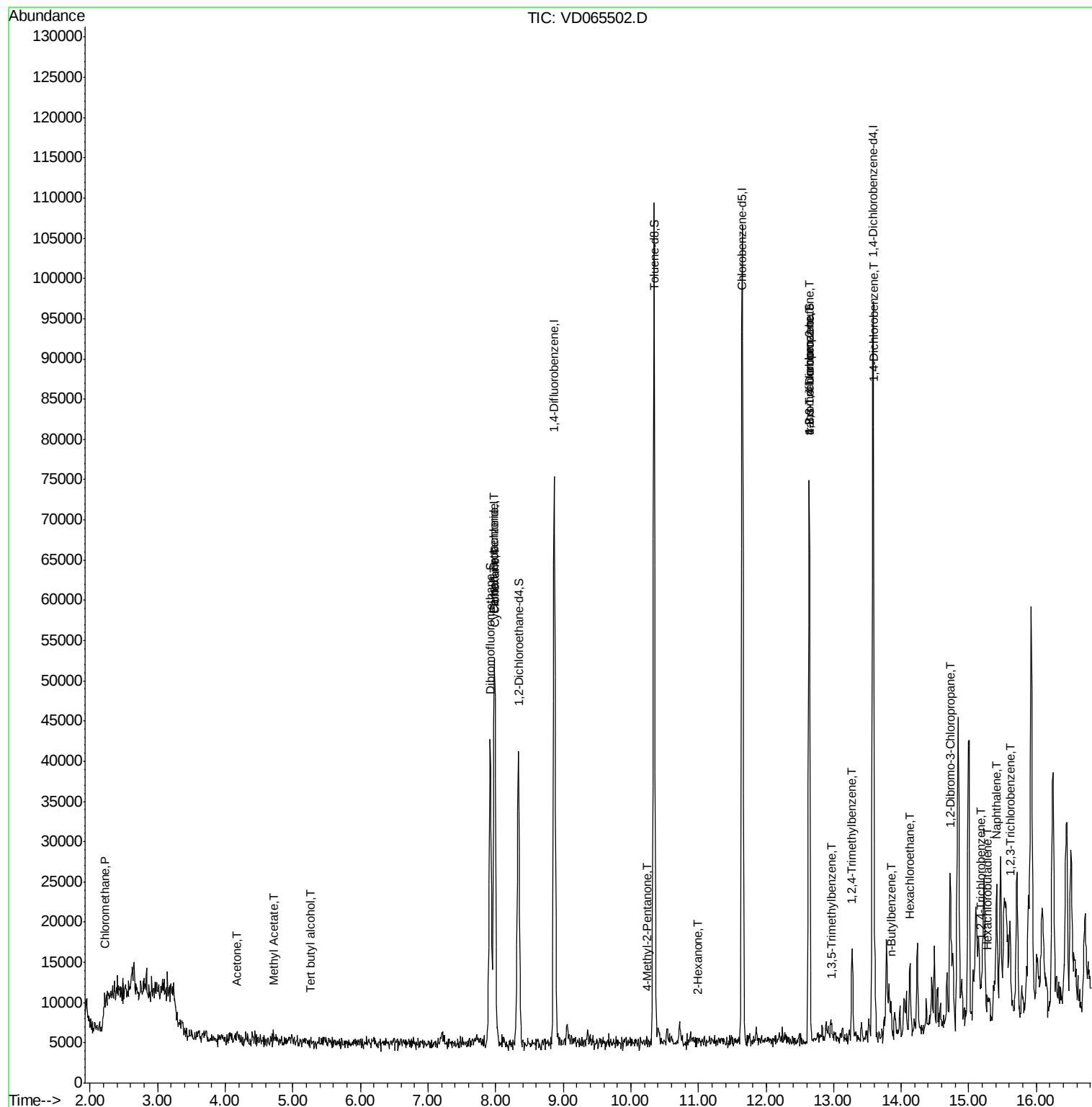
					Qvalue	
3) Chloromethane	2.21	50	772	2.001	ug/l #	82
5) Bromomethane	2.79	94	835	Below Cal	#	79
11) Tert butyl alcohol	5.27	59	53	2.897	ug/l #	76
16) Acetone	4.17	43	789	12.230	ug/l #	43
18) Methyl Acetate	4.71	43	366	2.237	ug/l #	51
20) Methylene Chloride	4.95	84	699	Below Cal	#	7
31) Cyclohexane	7.99	56	1113	1.757	ug/l #	65
38) Carbon Tetrachloride	7.98	117	3800	6.518	ug/l #	14
51) 4-Methyl-2-Pentanone	10.24	43	309	1.530	ug/l #	69
59) 2-Hexanone	10.99	43	161	1.152	ug/l #	24
76) 1,2,3-Trichloropropane	12.64	75	9982	50.080	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.97	105	1535	1.124	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.64	75	9982	105.683	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.27	105	5972	4.436	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	898	1.138	ug/l #	51
89) n-Butylbenzene	13.86	91	1998	1.436	ug/l #	75
90) Hexachloroethane	14.13	117	704	2.271	ug/l #	16
92) 1,2-Dibromo-3-Chloropropan	14.73	75	195	4.384	ug/l #	1
93) 1,2,4-Trichlorobenzene	15.17	180	708	1.547	ug/l #	67
94) Hexachlorobutadiene	15.27	225	399	1.327	ug/l #	29
95) Naphthalene	15.41	128	10282	15.899	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.61	180	877	2.217	ug/l #	1

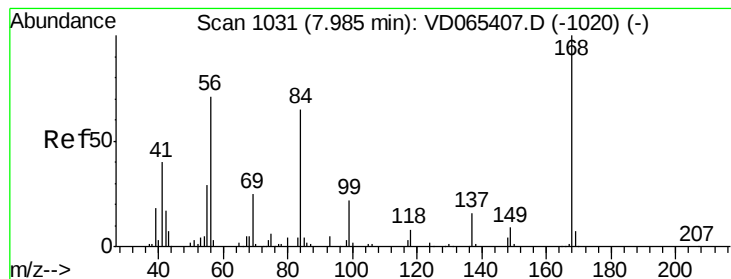
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Mar 05 01:22:07 2020
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: VD065502.D

Acq: 13 Mar 2020 13:06

Instrument :

MSVOA_D

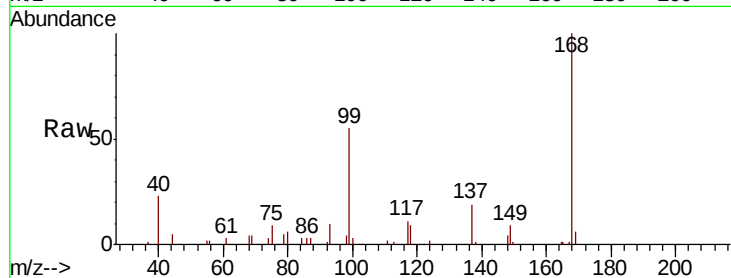
ClientSampleId :

Tot Ion:168 Resp: 37186

Ion Ratio Lower Upper

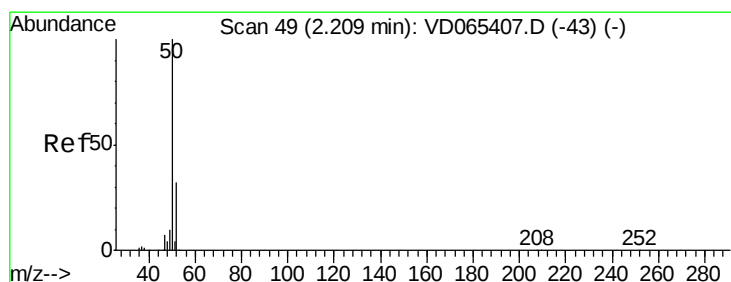
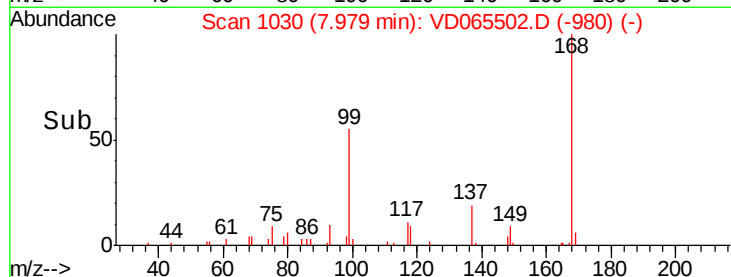
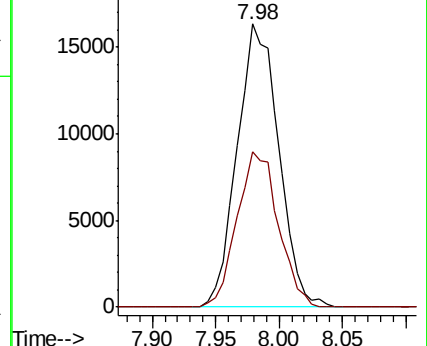
168 100

99 54.7 41.5 62.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 2.001 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.01 min

Lab File: VD065502.D

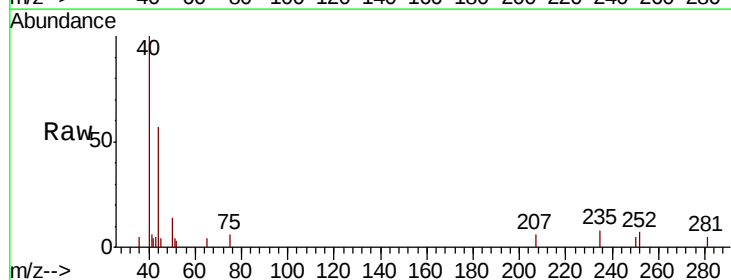
Acq: 13 Mar 2020 13:06

Tgt Ion: 50 Resp: 772

Ion Ratio Lower Upper

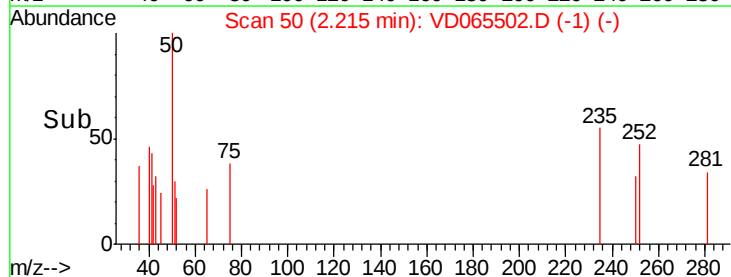
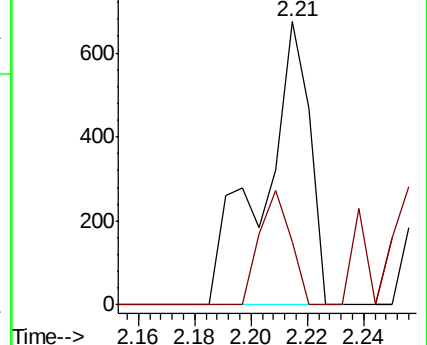
50 100

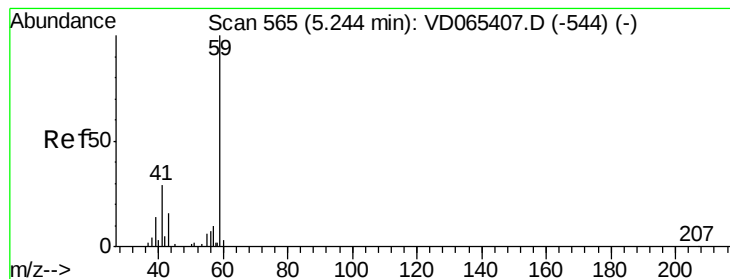
52 22.4 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



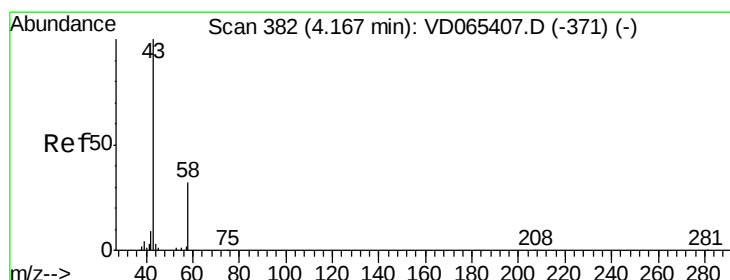
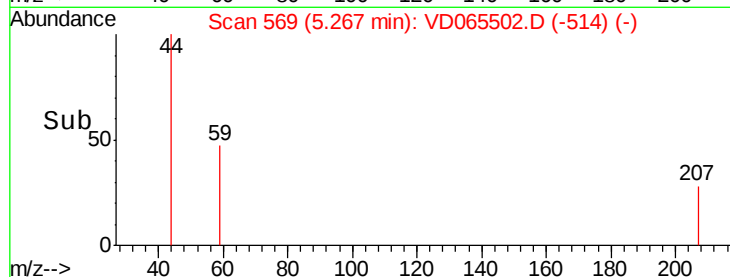
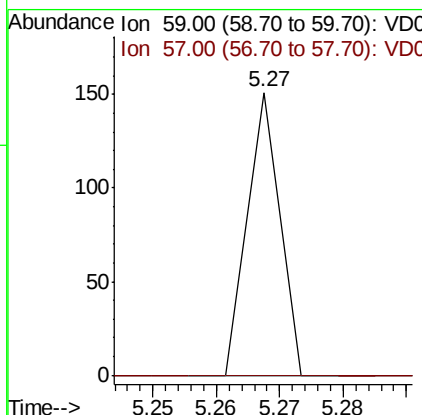
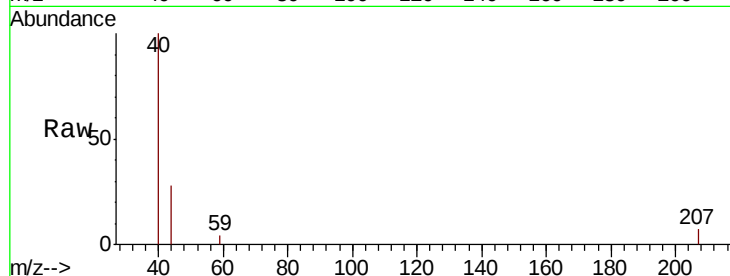


#11

Tert butyl alcohol
 Concen: 2.897 ug/l
 RT: 5.27 min Scan# 569
 Delta R.T. 0.02 min
 Lab File: VD065502.D
 Acq: 13 Mar 2020 13:06

Instrument :
 MSVOA_D
 ClientSampleId :

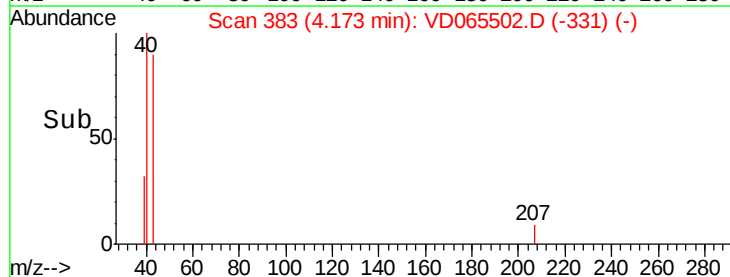
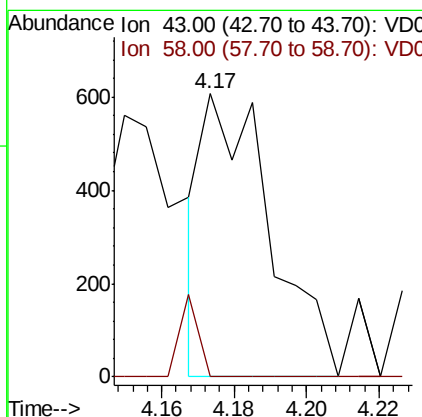
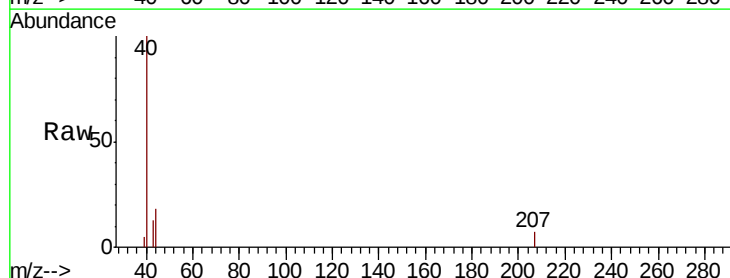
Tot Ion: 59 Resp: 53
 Ion Ratio Lower Upper
 59 100
 57 0.0 6.9 10.3#

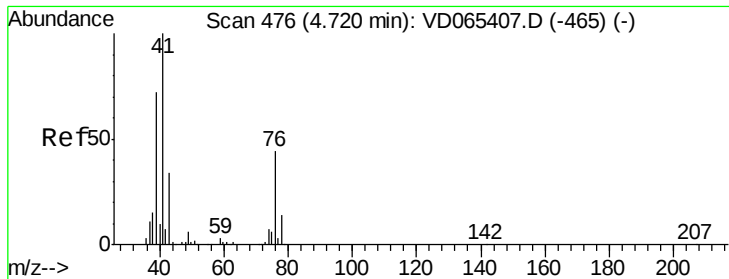


#16

Acetone
 Concen: 12.230 ug/l
 RT: 4.17 min Scan# 383
 Delta R.T. 0.01 min
 Lab File: VD065502.D
 Acq: 13 Mar 2020 13:06

Tgt Ion: 43 Resp: 789
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.1 37.7#

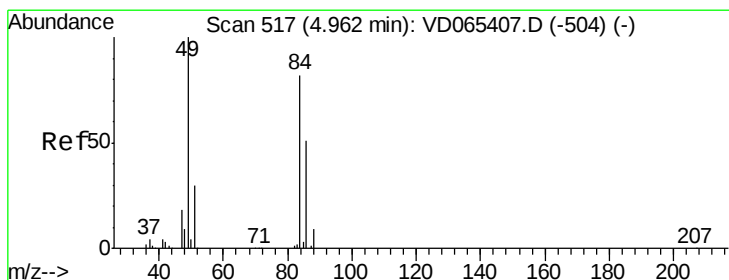
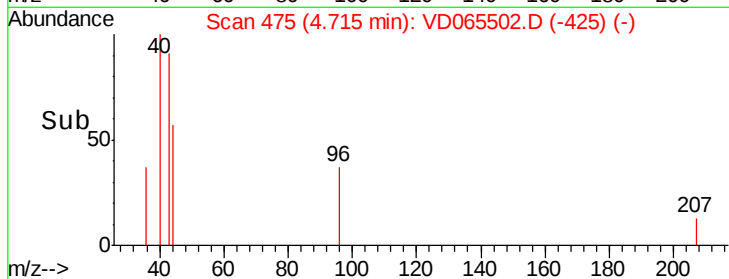
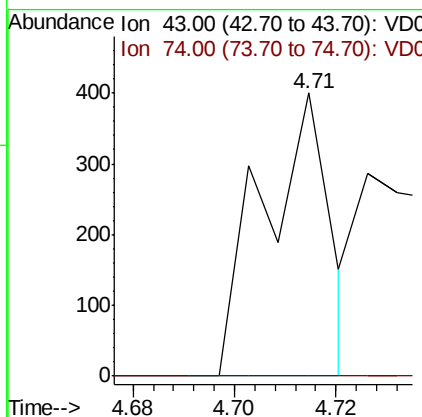
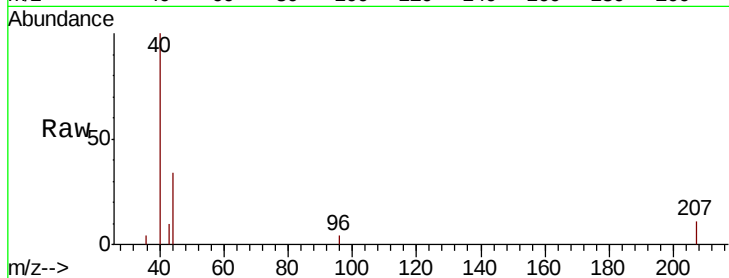




#18
Methyl Acetate
Concen: 2.237 ug/l
RT: 4.71 min Scan# 475
Delta R.T. -0.01 min
Lab File: VD065502.D
Acq: 13 Mar 2020 13:06

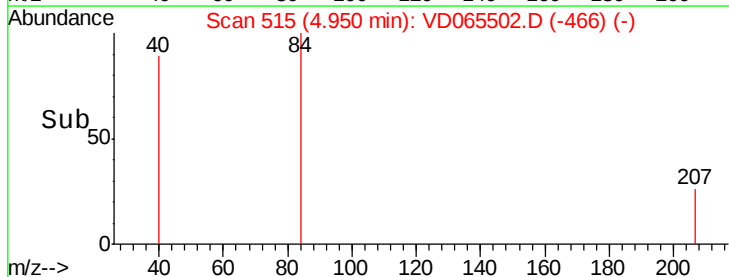
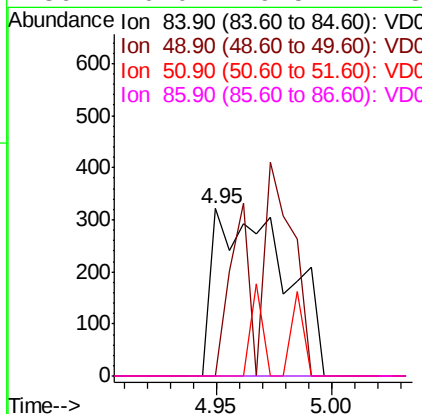
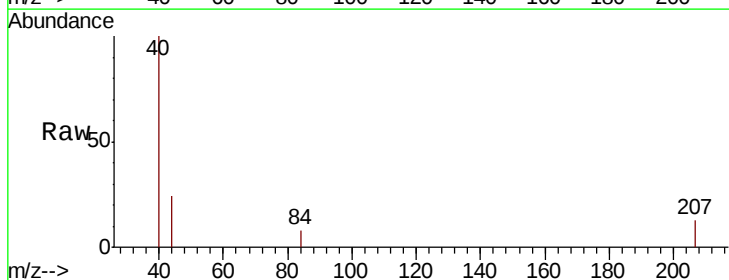
Instrument :
MSVOA_D
ClientSampled :

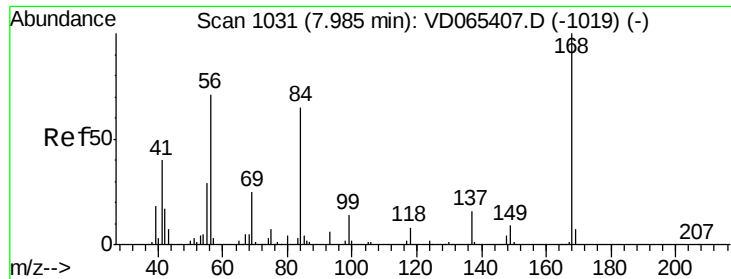
Tot Ion: 43 Resp: 366
Ion Ratio Lower Upper
43 100
74 0.0 19.6 29.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.95 min Scan# 515
Delta R.T. -0.01 min
Lab File: VD065502.D
Acq: 13 Mar 2020 13:06

Tgt Ion: 84 Resp: 699
Ion Ratio Lower Upper
84 100
49 0.0 97.7 146.5#
51 0.0 28.8 43.2#
86 0.0 49.5 74.3#

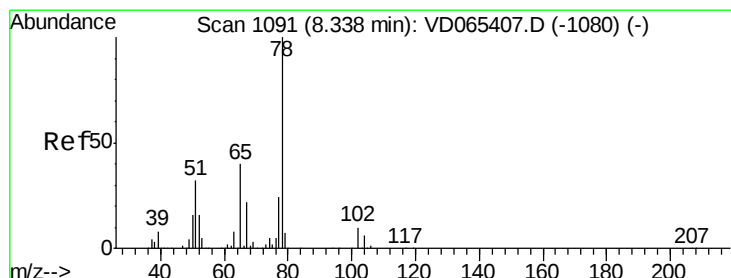
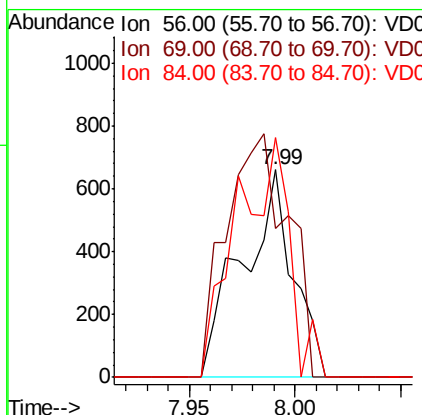
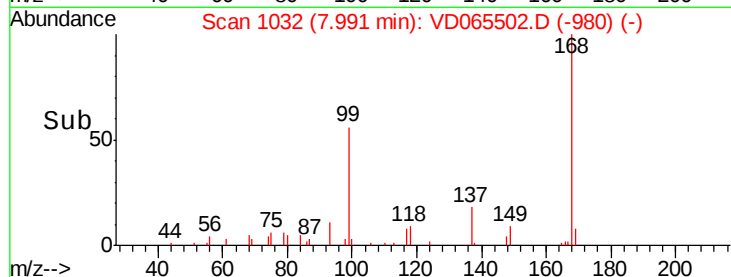
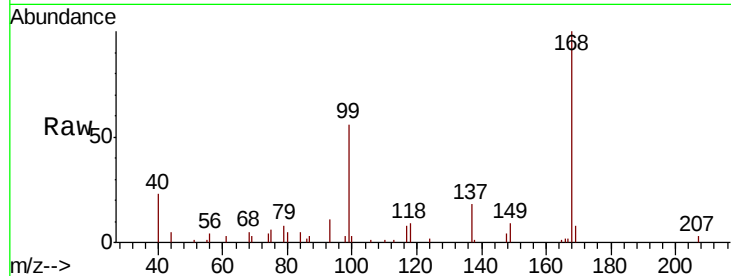




#31
Cyclohexane
Concen: 1.757 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD065502.D
Acq: 13 Mar 2020 13:06

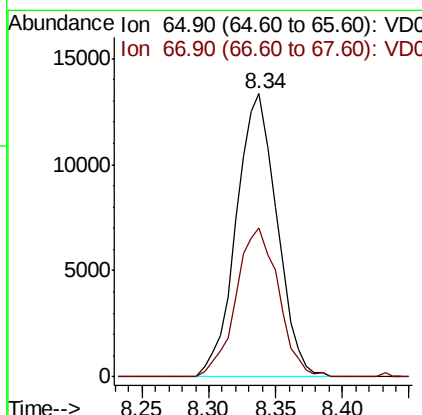
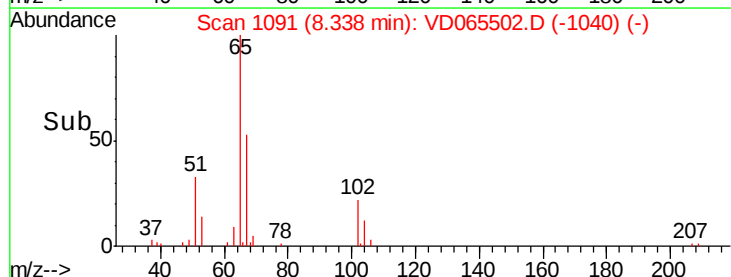
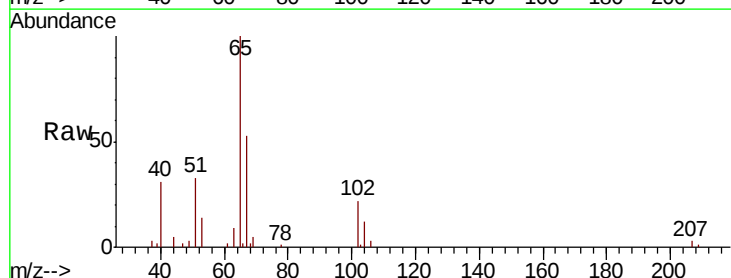
Instrument :
MSVOA_D
ClientSampled :

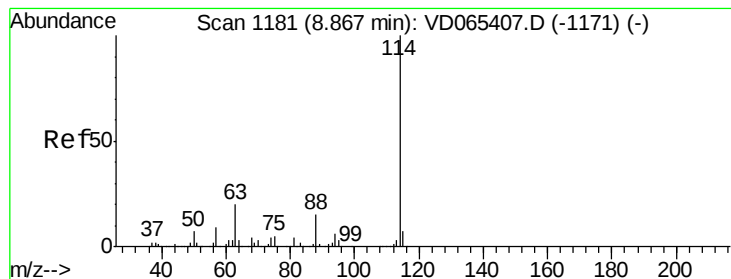
Tot Ion: 56 Resp: 1113
Ion Ratio Lower Upper
56 100
69 71.7 28.3 42.5#
84 115.3 73.1 109.7#



#33
1,2-Dichloroethane-d4
Concen: 88.525 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD065502.D
Acq: 13 Mar 2020 13:06

Tgt Ion: 65 Resp: 28238
Ion Ratio Lower Upper
65 100
67 54.7 0.0 108.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065502.D

Acq: 13 Mar 2020 13:06

Instrument :

MSVOA_D

ClientSampleId :

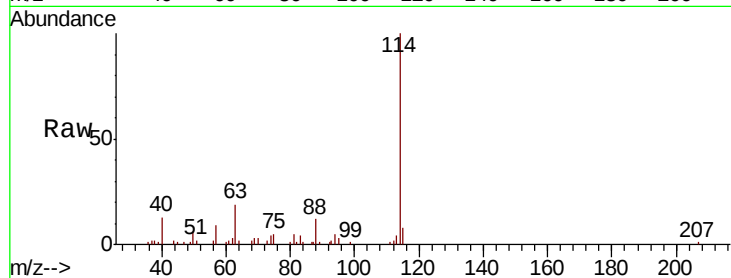
Tot Ion:114 Resp: 58653

Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.6

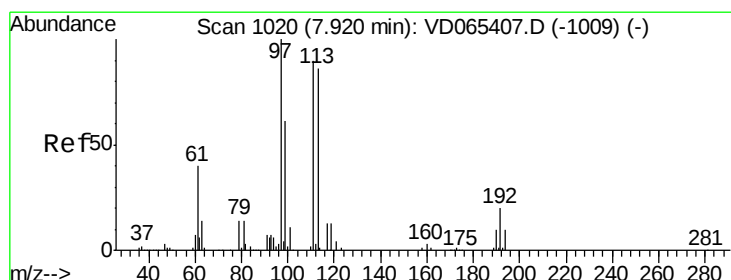
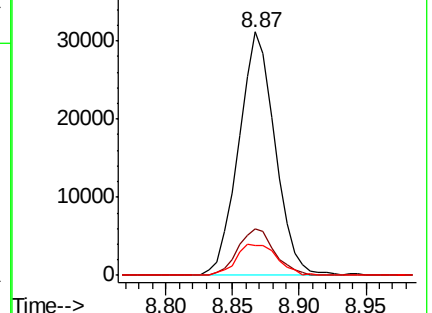
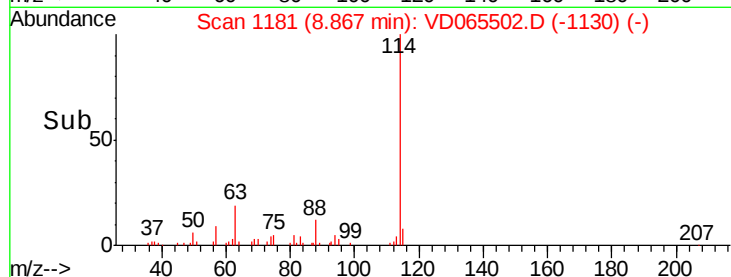
88 12.4 0.0 30.4



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: 72.685 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD065502.D

Acq: 13 Mar 2020 13:06

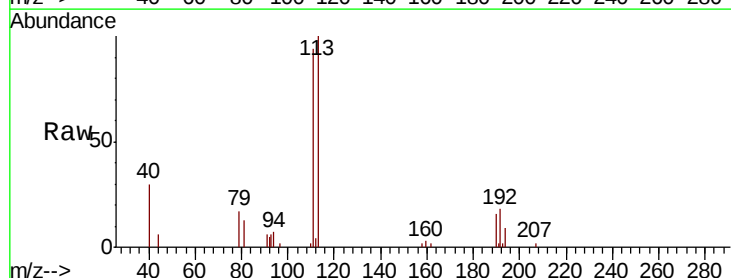
Tgt Ion:113 Resp: 26364

Ion Ratio Lower Upper

113 100

111 103.0 82.1 123.1

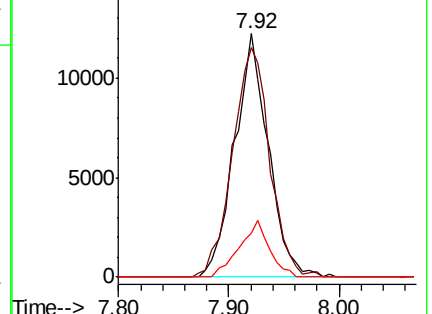
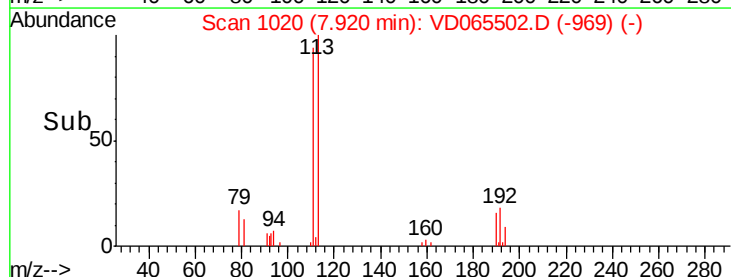
192 20.5 17.2 25.8

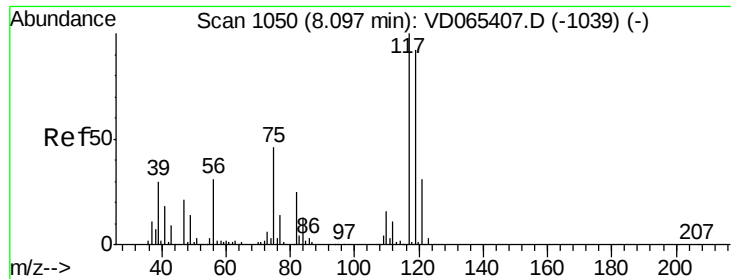


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 6.518 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD065502.D

Acq: 13 Mar 2020 13:06

Instrument :

MSVOA_D

ClientSampleId :

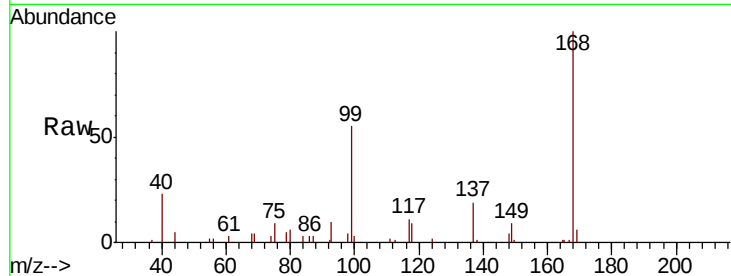
Tot Ion:117 Resp: 3800

Ion Ratio Lower Upper

117 100

119 0.0 73.3 109.9#

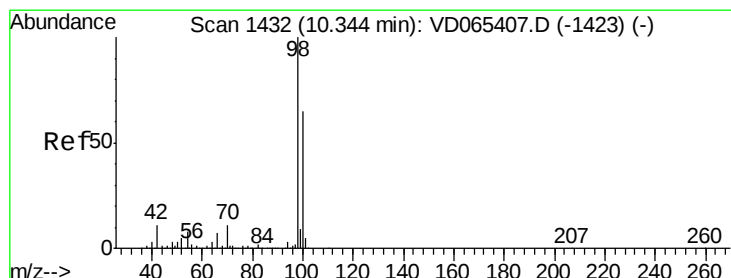
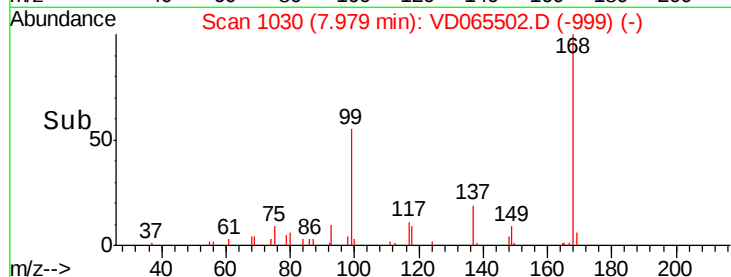
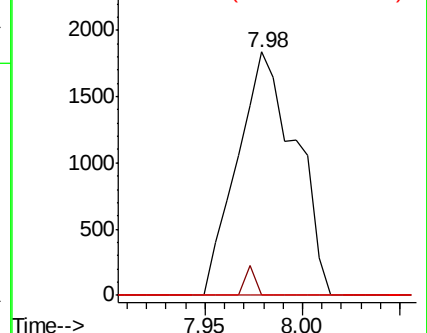
121 0.0 25.0 37.4#



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



#50

Toluene-d8

Concen: 49.584 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065502.D

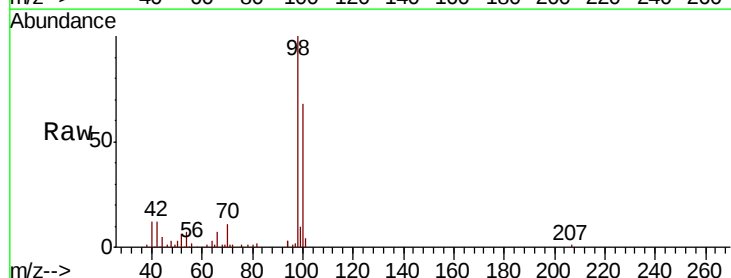
Acq: 13 Mar 2020 13:06

Tgt Ion: 98 Resp: 68996

Ion Ratio Lower Upper

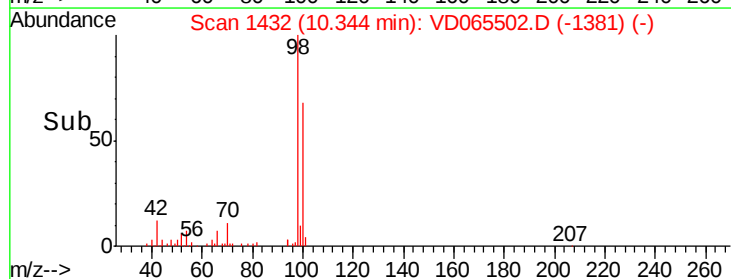
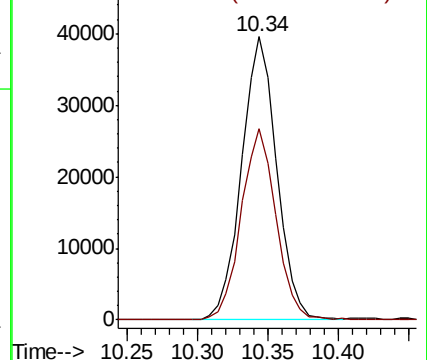
98 100

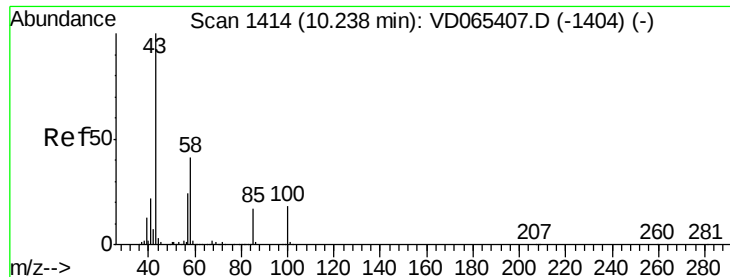
100 66.6 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 1.530 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. 0.00 min

Lab File: VD065502.D

Acq: 13 Mar 2020 13:06

Instrument :

MSVOA_D

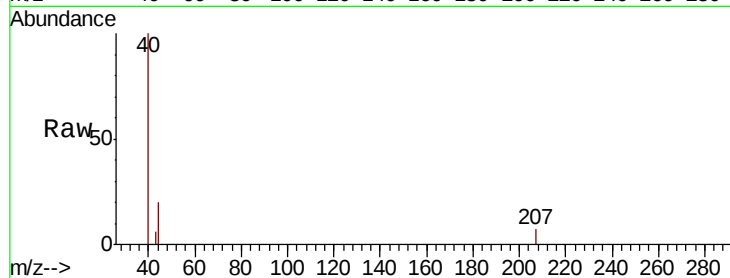
ClientSampled :

Tot Ion: 43 Resp: 309

Ion Ratio Lower Upper

43 100

58 20.4 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.24

250

200

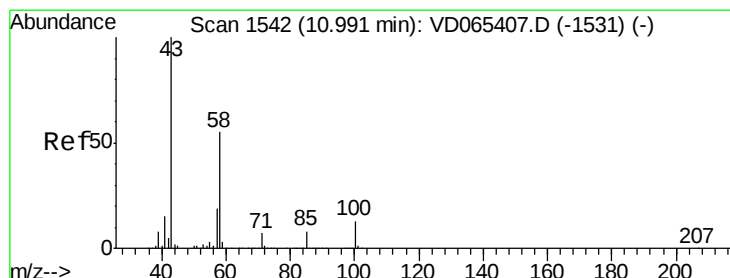
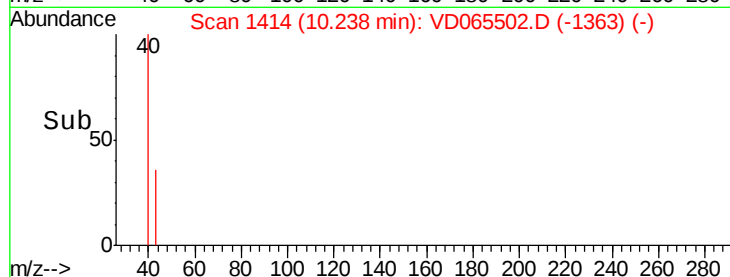
150

100

50

0

Time-->



#59

2-Hexanone

Concen: 1.152 ug/l

RT: 10.99 min Scan# 1542

Delta R.T. 0.00 min

Lab File: VD065502.D

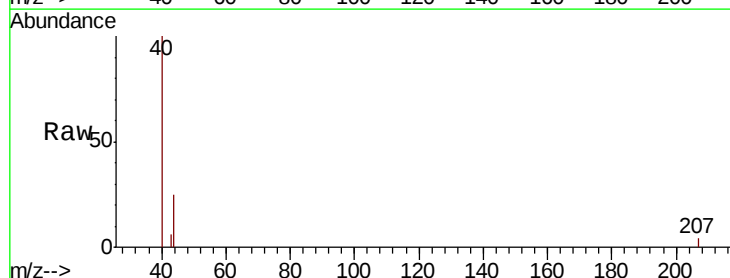
Acq: 13 Mar 2020 13:06

Tgt Ion: 43 Resp: 161

Ion Ratio Lower Upper

43 100

58 0.0 27.4 82.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

10.99

250

200

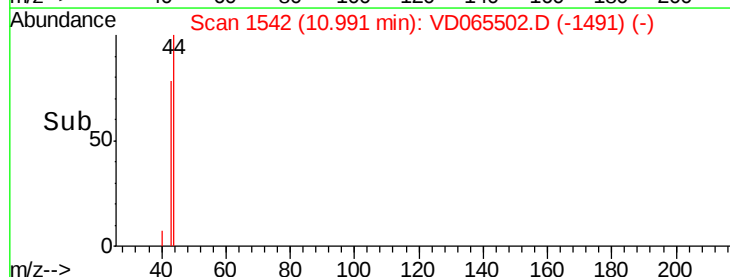
150

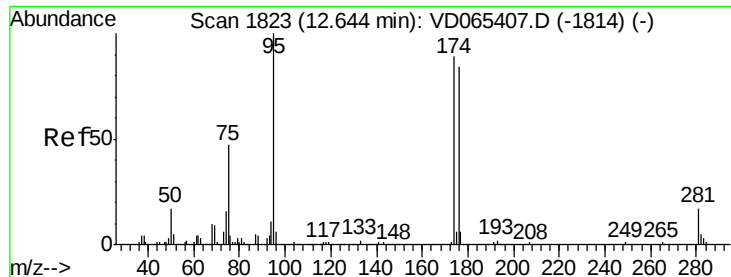
100

50

0

Time-->

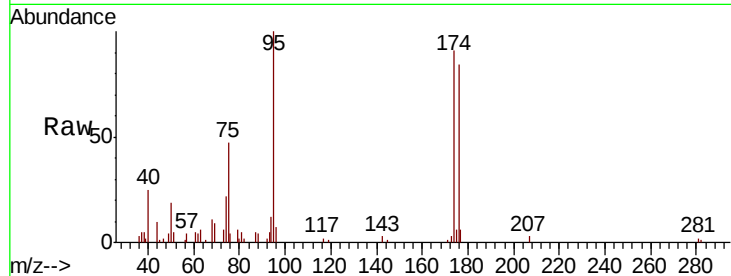




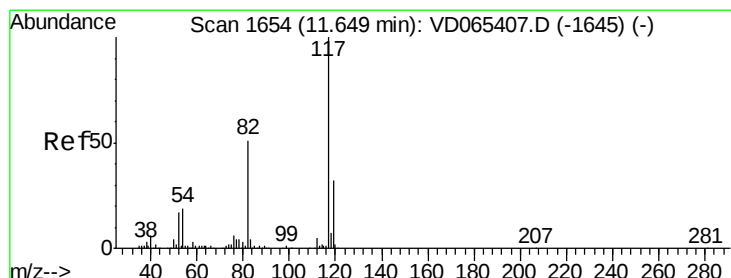
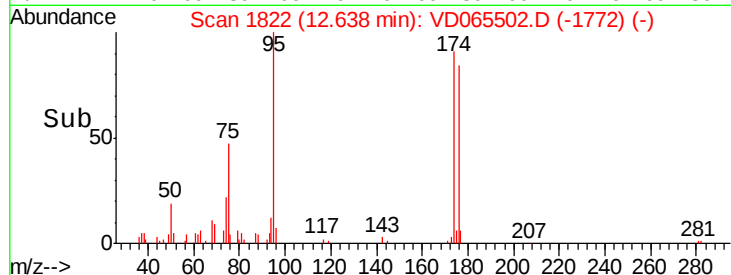
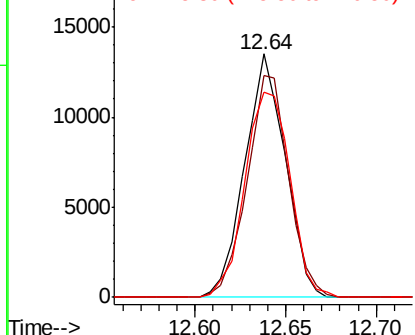
#62
4-Bromofluorobenzene
Concen: 49.017 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.01 min
Lab File: VD065502.D
Acq: 13 Mar 2020 13:06

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 95 Resp: 21056
Ion Ratio Lower Upper
95 100
174 93.3 0.0 176.8
176 93.9 0.0 171.4

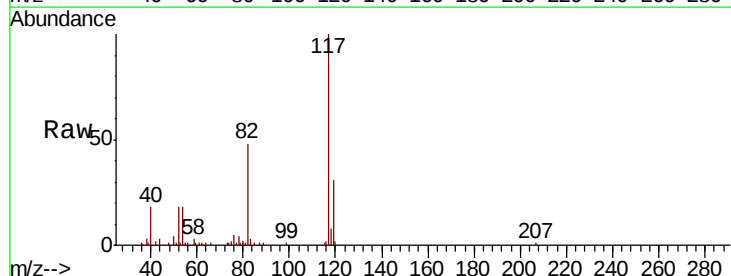


Abundance Ion 94.90 (94.60 to 95.60): V
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

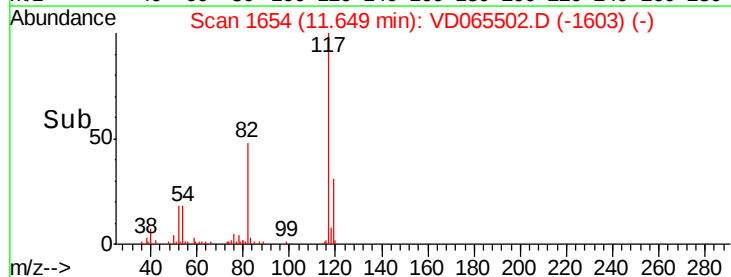
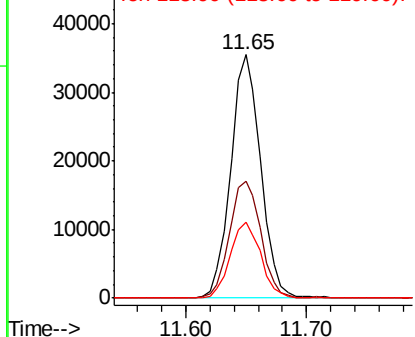


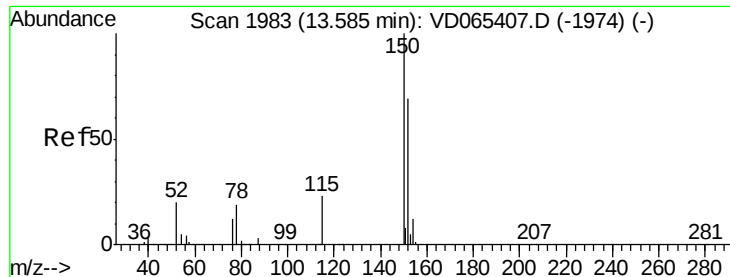
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065502.D
Acq: 13 Mar 2020 13:06

Tgt Ion: 117 Resp: 61153
Ion Ratio Lower Upper
117 100
82 48.0 40.6 60.8
119 31.2 25.4 38.2



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: VD065502.D

Acq: 13 Mar 2020 13:06

Instrument :

MSVOA_D

ClientSampleId :

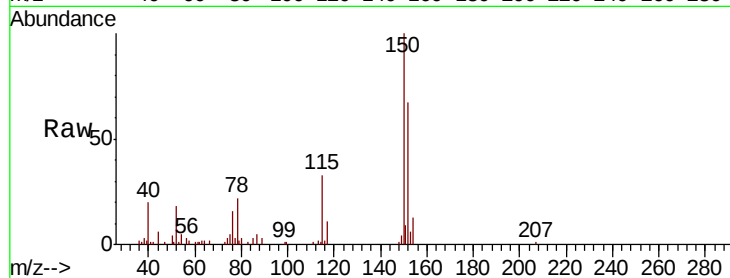
Tot Ion:152 Resp: 25260

Ion Ratio Lower Upper

152 100

115 56.7 27.6 82.8

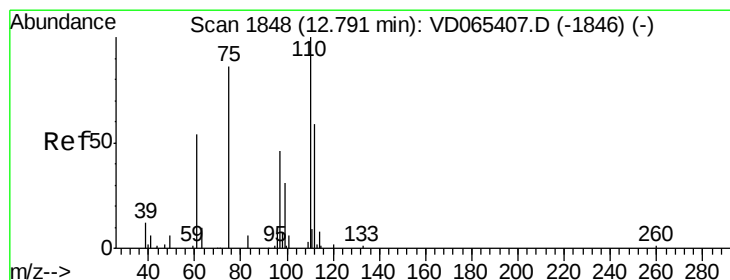
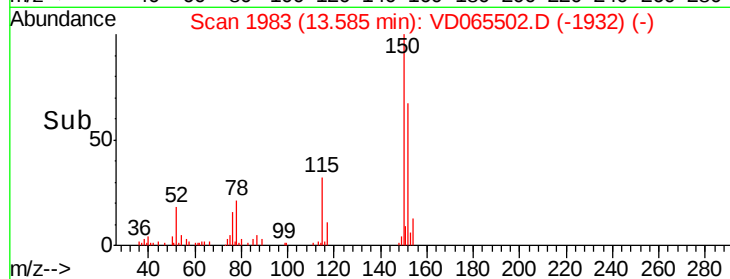
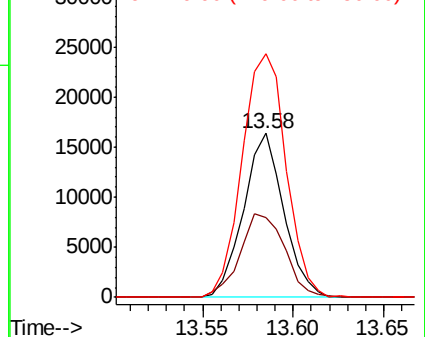
150 161.9 0.0 345.0



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: 50.080 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065502.D

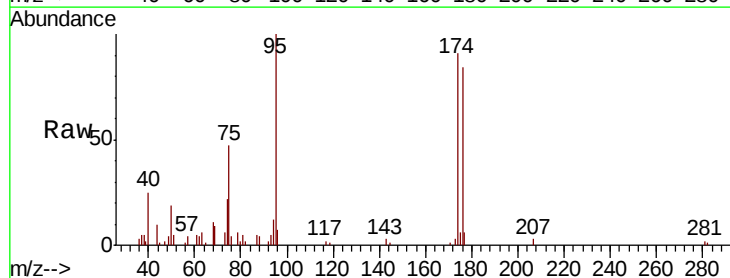
Acq: 13 Mar 2020 13:06

Tgt Ion: 75 Resp: 9982

Ion Ratio Lower Upper

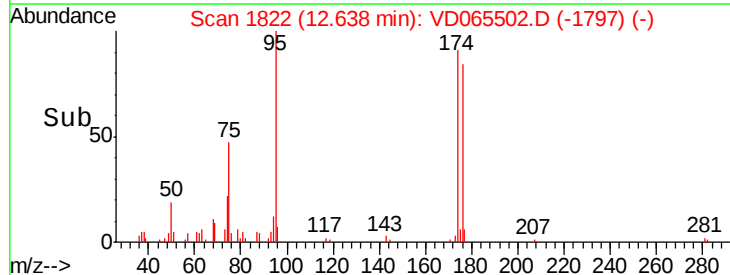
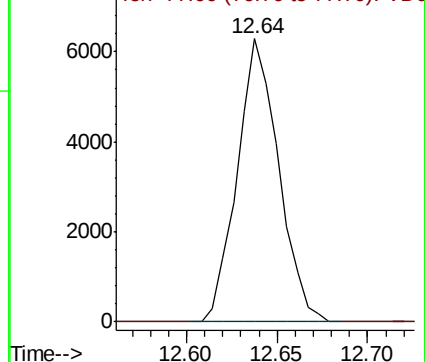
75 100

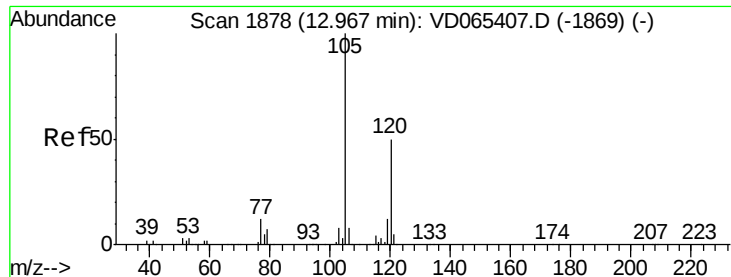
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#80

1,3,5-Trimethylbenzene

Concen: 1.124 ug/l

RT: 12.97 min Scan# 1879

Delta R.T. 0.01 min

Lab File: VD065502.D

Acq: 13 Mar 2020 13:06

Instrument :

MSVOA_D

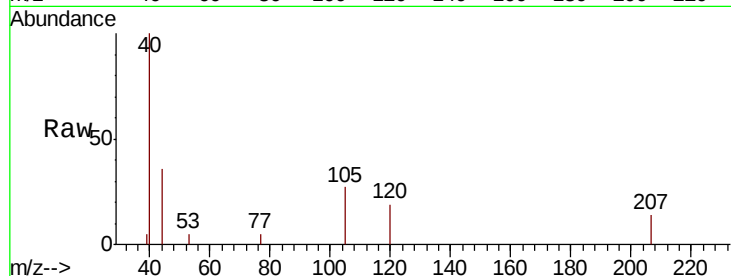
ClientSampled :

Tot Ion:105 Resp: 1535

Ion Ratio Lower Upper

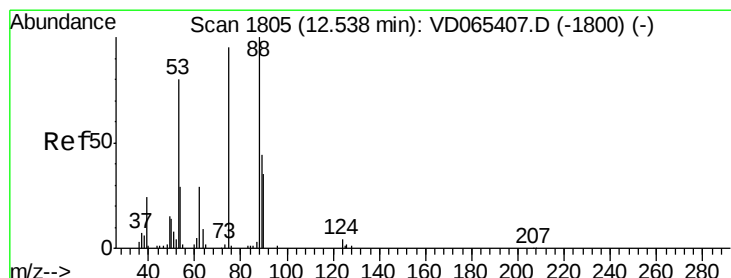
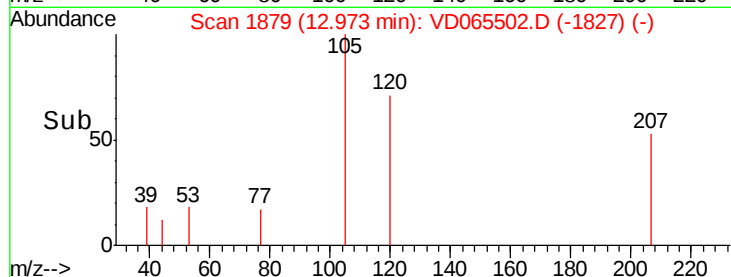
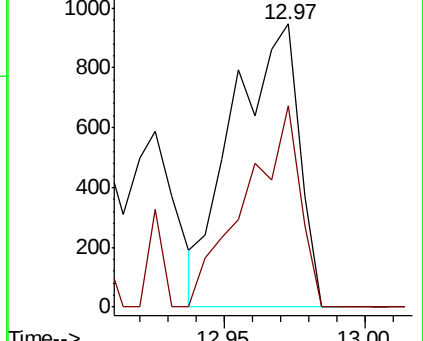
105 100

120 58.4 25.4 76.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 105.683 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065502.D

Acq: 13 Mar 2020 13:06

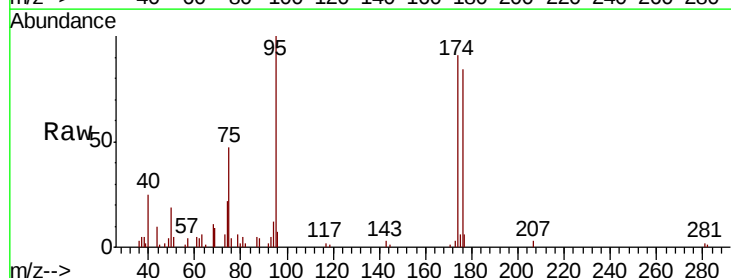
Tgt Ion: 75 Resp: 9982

Ion Ratio Lower Upper

75 100

53 0.0 71.3 106.9#

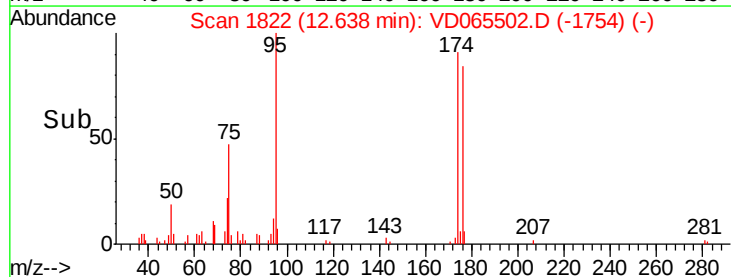
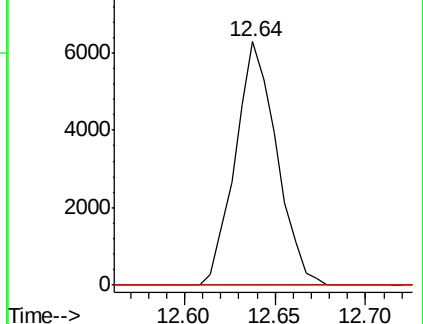
89 0.0 37.0 55.6#

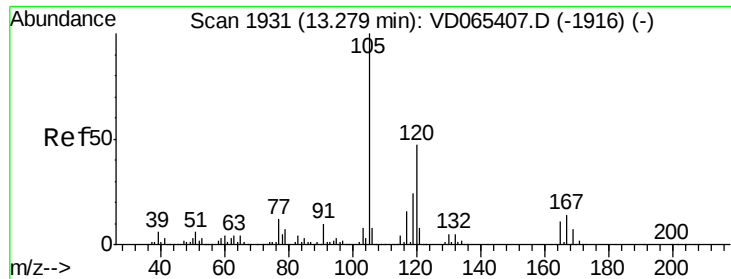


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#84

1,2,4-Trimethylbenzene

Concen: 4.436 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. -0.01 min

Lab File: VD065502.D

Acq: 13 Mar 2020 13:06

Instrument :

MSVOA_D

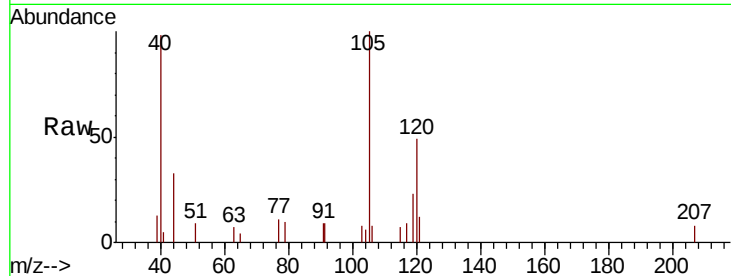
ClientSampled :

Tot Ion:105 Resp: 5972

Ion Ratio Lower Upper

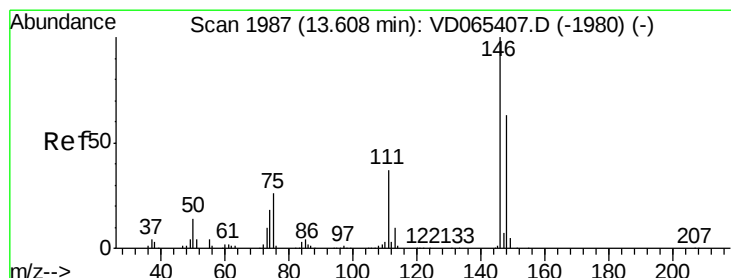
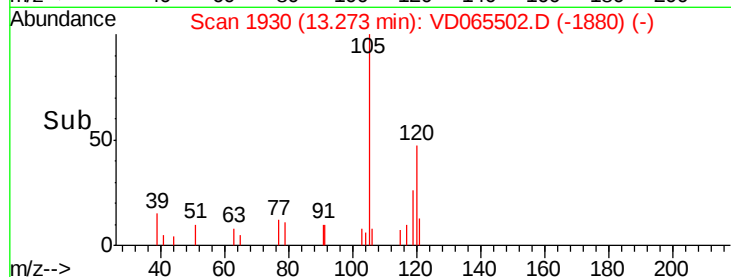
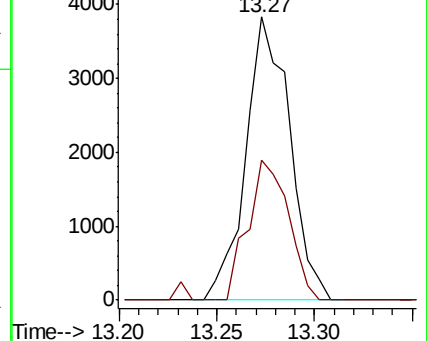
105 100

120 45.6 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#88

1,4-Dichlorobenzene

Concen: 1.138 ug/l

RT: 13.60 min Scan# 1985

Delta R.T. -0.01 min

Lab File: VD065502.D

Acq: 13 Mar 2020 13:06

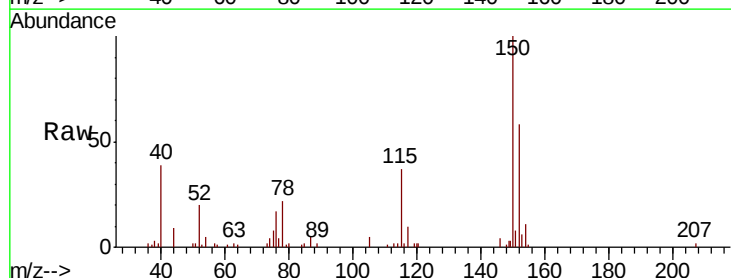
Tgt Ion:146 Resp: 898

Ion Ratio Lower Upper

146 100

111 0.0 18.5 55.5#

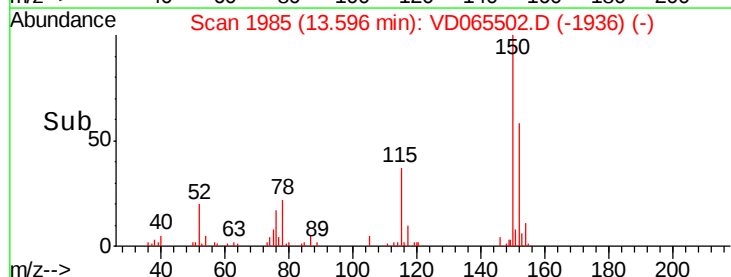
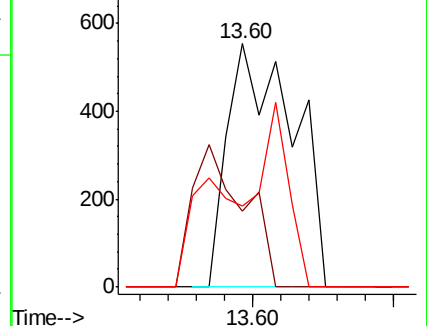
148 32.2 32.0 96.0

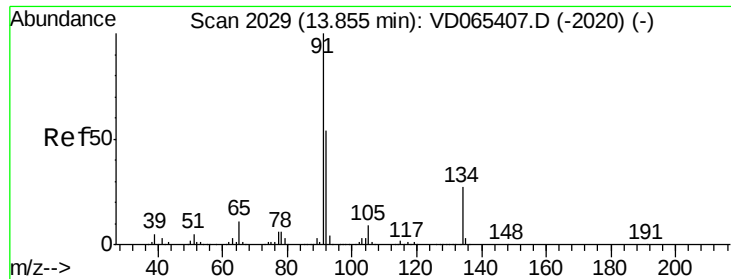


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

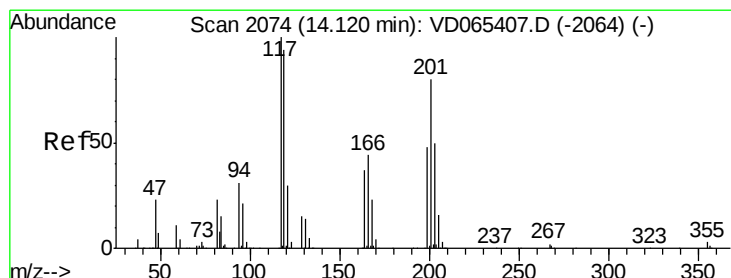
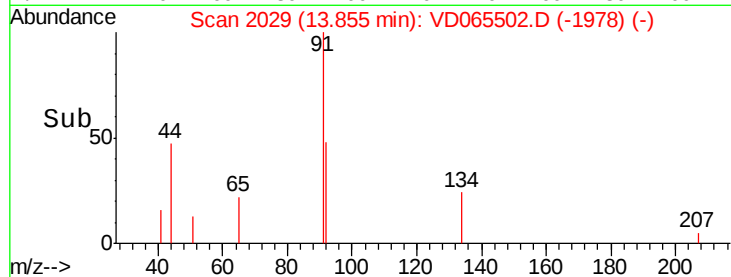
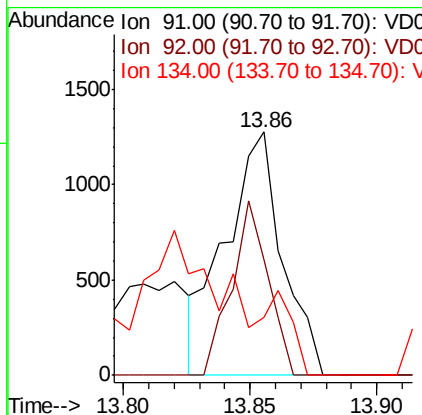
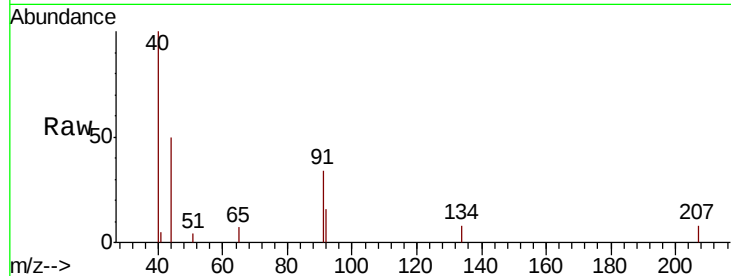




#89
n-Butylbenzene
Concen: 1.436 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VD065502.D
Acq: 13 Mar 2020 13:06

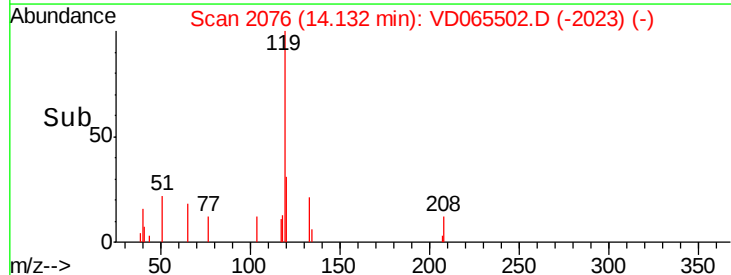
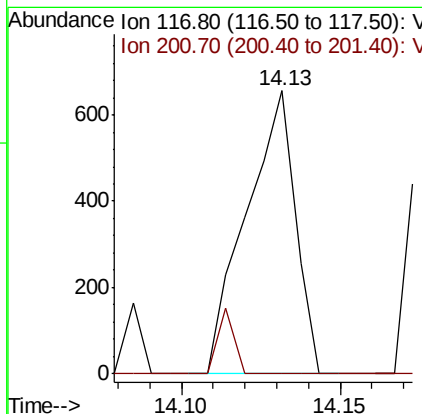
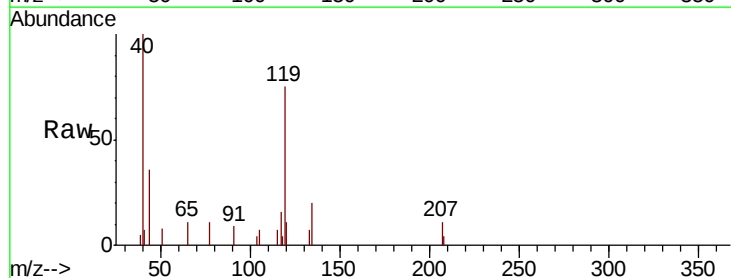
Instrument :
MSVOA_D
ClientSampleID :

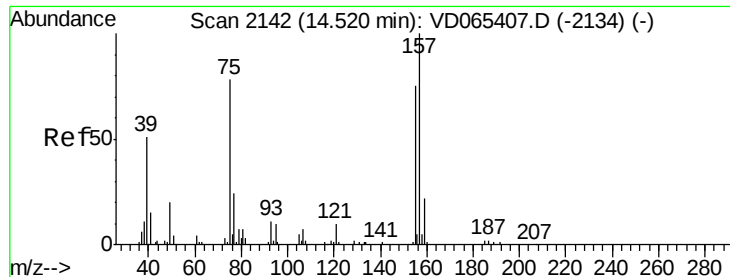
Tot Ion: 91 Resp: 1998
Ion Ratio Lower Upper
91 100
92 45.7 26.8 80.4
134 0.0 13.4 40.2#



#90
Hexachloroethane
Concen: 2.271 ug/l
RT: 14.13 min Scan# 2076
Delta R.T. 0.01 min
Lab File: VD065502.D
Acq: 13 Mar 2020 13:06

Tgt Ion: 117 Resp: 704
Ion Ratio Lower Upper
117 100
201 7.5 41.9 125.6#

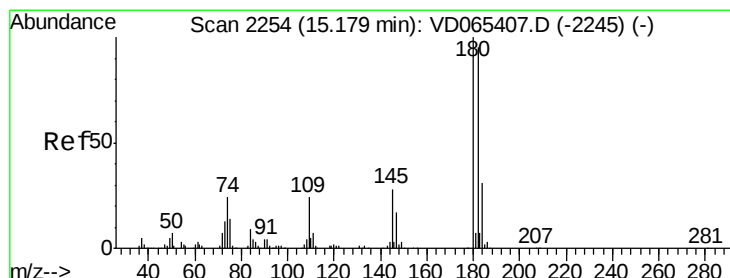
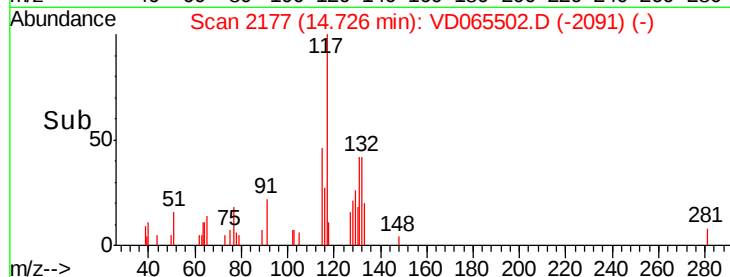
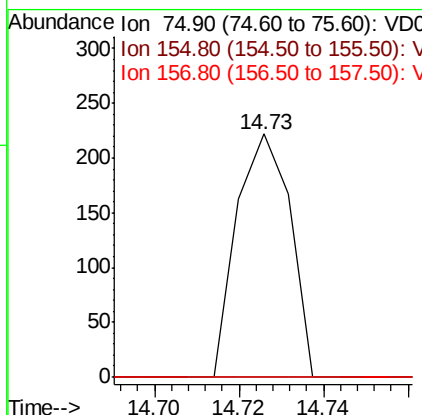
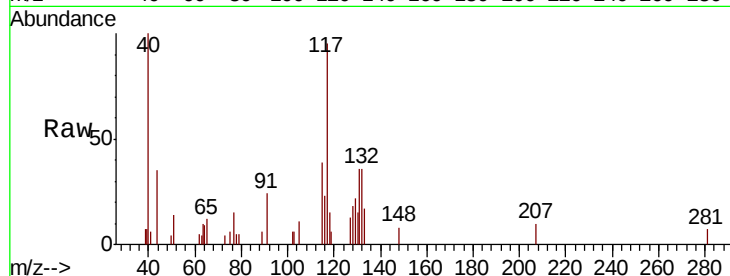




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.384 ug/l
 RT: 14.73 min Scan# 2177
 Delta R.T. 0.21 min
 Lab File: VD065502.D
 Acq: 13 Mar 2020 13:06

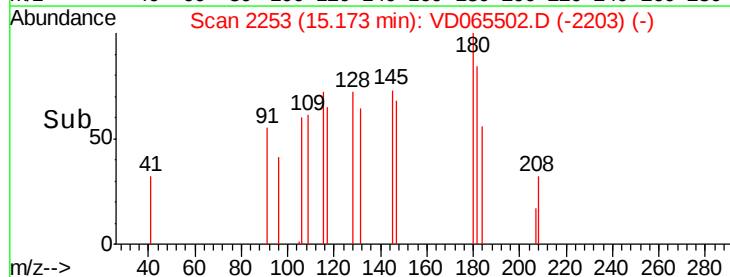
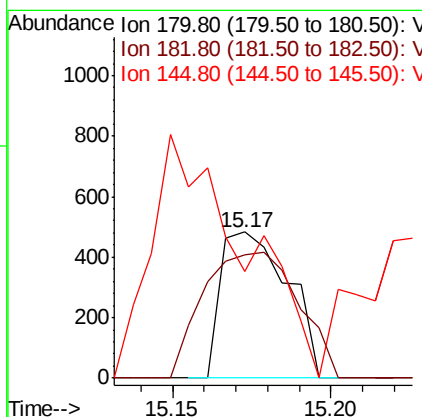
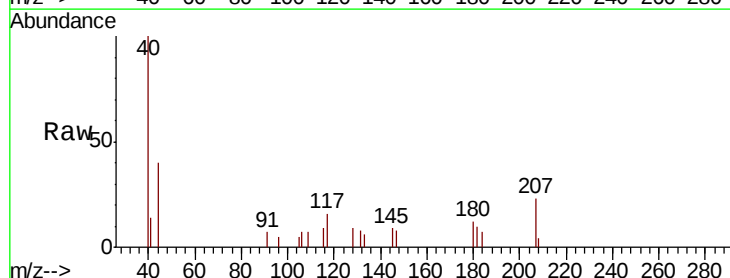
Instrument :
 MSVOA_D
 ClientSampleId :

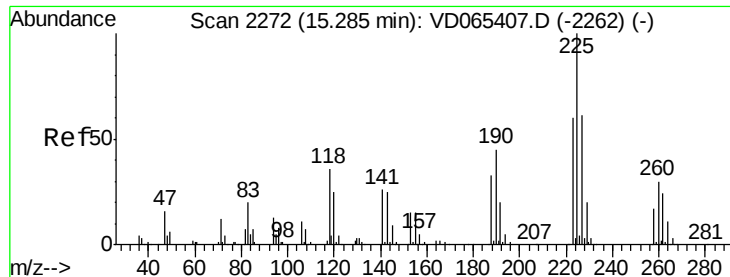
Tot Ion: 75 Resp: 195
 Ion Ratio Lower Upper
 75 100
 155 0.0 46.4 139.1#
 157 0.0 60.2 180.4#



#93
 1,2,4-Trichlorobenzene
 Concen: 1.547 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. -0.01 min
 Lab File: VD065502.D
 Acq: 13 Mar 2020 13:06

Tgt Ion: 180 Resp: 708
 Ion Ratio Lower Upper
 180 100
 182 122.5 48.3 144.9
 145 0.0 14.4 43.4#

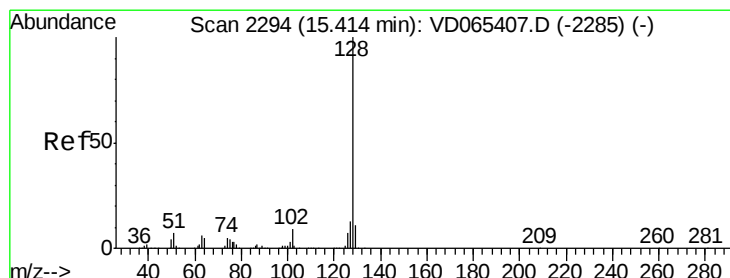
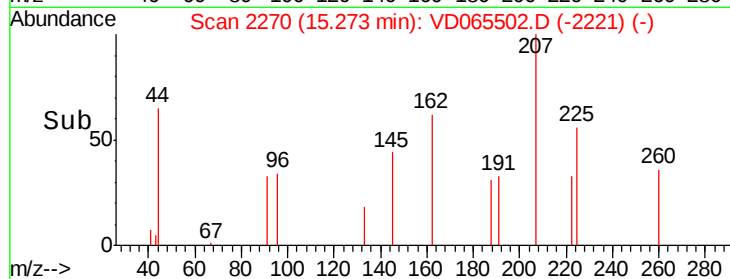
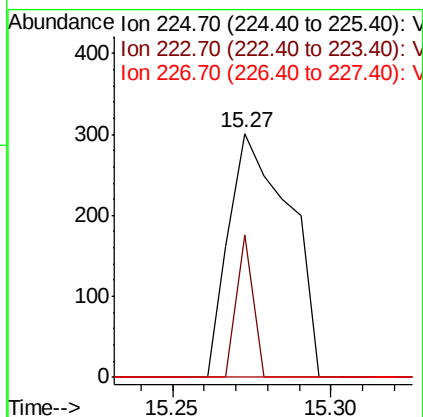
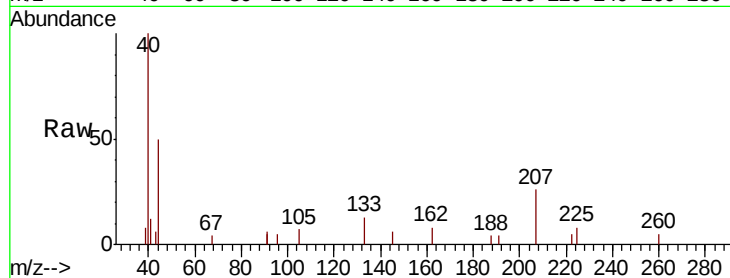




#94
Hexachlorobutadiene
Concen: 1.327 ug/l
RT: 15.27 min Scan# 2270
Delta R.T. -0.01 min
Lab File: VD065502.D
Acq: 13 Mar 2020 13:06

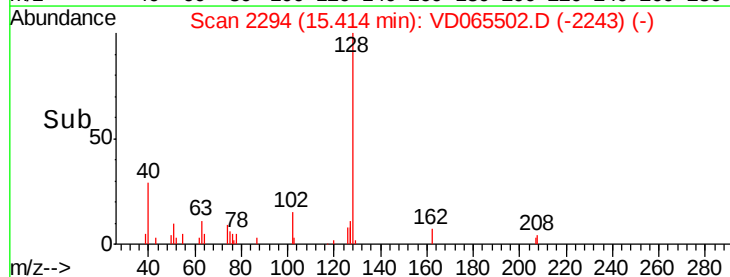
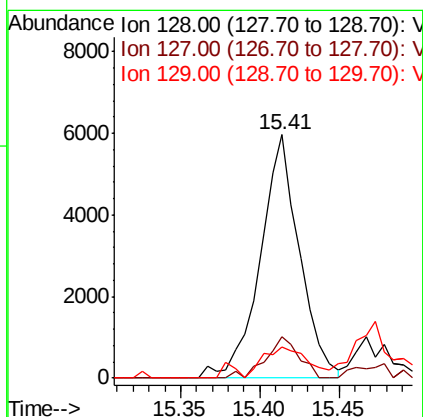
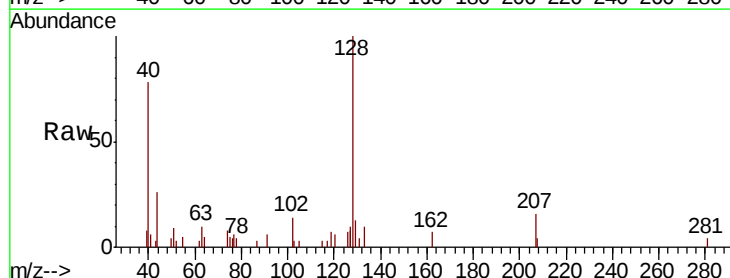
Instrument :
MSVOA_D
ClientSampleId :

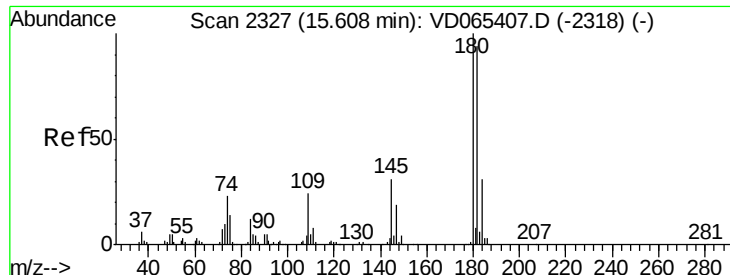
Tot Ion	Ratio	Lower	Upper
225	100		
223	15.5	30.9	92.5#
227	0.0	31.6	94.7#



#95
Naphthalene
Concen: 15.899 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. 0.00 min
Lab File: VD065502.D
Acq: 13 Mar 2020 13:06

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.2	10.6	16.0
129	14.6	8.7	13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.217 ug/l
 RT: 15.61 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VD065502.D
 Acq: 13 Mar 2020 13:06

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	90.1	46.9	140.6
145	251.0	15.0	45.1#

