

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072220\
 Data File : VD065998.D
 Acq On : 22 Jul 2020 13:38
 Operator : VA/SY
 Sample : L3184-13RE
 Misc : 7.56G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 EO-03-072020

Quant Time: Jul 23 01:03:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072120S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 12:34:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	291788	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	537996	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	560736	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	290058	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	140815	59.31	ug/l	0.00
Spiked Amount			Recovery	=	118.62%	
35) Dibromofluoromethane	7.91	113	168083	51.51	ug/l	0.00
Spiked Amount			Recovery	=	103.02%	
50) Toluene-d8	10.34	98	636833	52.39	ug/l	0.00
Spiked Amount			Recovery	=	104.78%	
62) 4-Bromofluorobenzene	12.64	95	263277	62.46	ug/l	0.00
Spiked Amount			Recovery	=	124.92%	

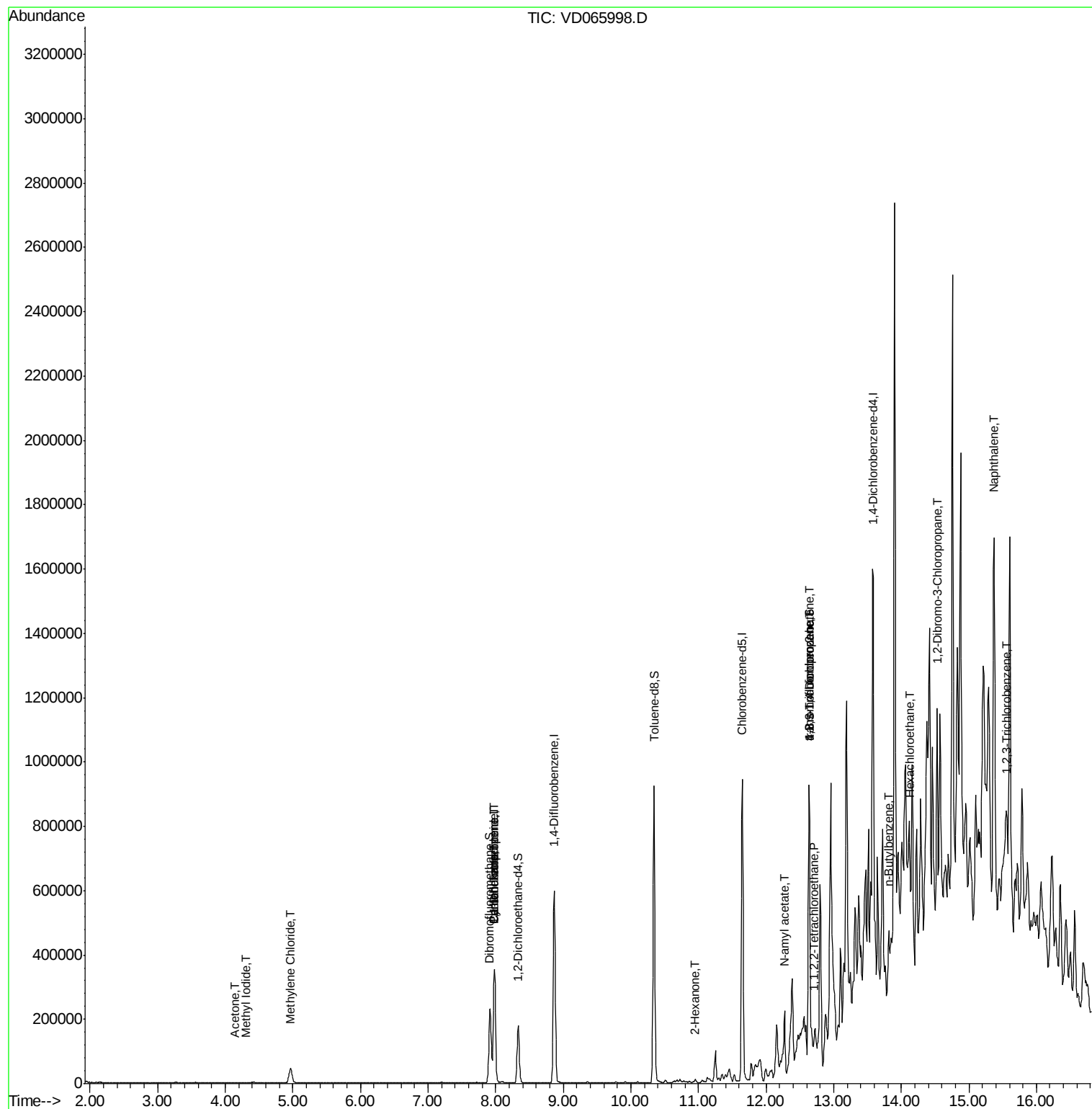
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.80	94	522	Below Cal	#	57
10) Methyl Iodide	4.31	142	282	8.903	ug/l #	69
16) Acetone	4.15	43	627	1.305	ug/l #	42
20) Methylene Chloride	4.96	84	34404	10.611	ug/l	94
31) Cyclohexane	7.98	56	5474	1.282	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	19465	4.239	ug/l #	48
38) Carbon Tetrachloride	7.98	117	27292	5.478	ug/l #	17
59) 2-Hexanone	10.96	43	3847	3.217	ug/l #	31
74) N-amyl acetate	12.27	43	44100	12.118	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.71	83	9827	3.388	ug/l #	92
76) 1,2,3-Trichloropropane	12.64	75	127986	58.602	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	127986	134.471	ug/l #	12
89) n-Butylbenzene	13.81	91	20716	1.411	ug/l #	1
90) Hexachloroethane	14.13	117	4965	1.519	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.54	75	1079	2.270	ug/l #	27
95) Naphthalene	15.37	128	15367	5.097	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.57	180	8699	1.932	ug/l #	1

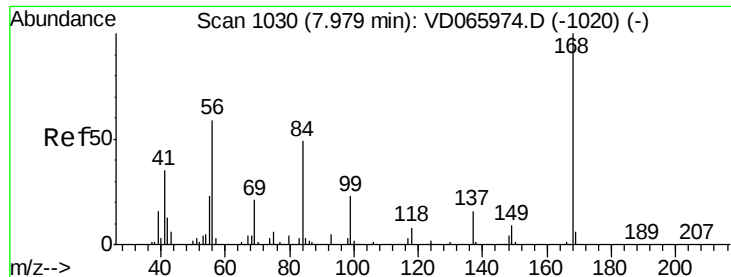
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD065998.D

Acq: 22 Jul 2020 13:38

Instrument :

MSVOA_D

ClientSampleId :

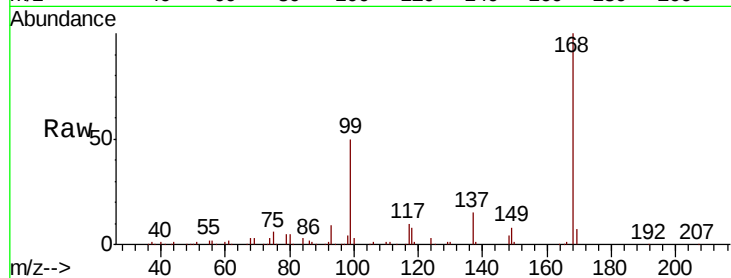
EO-03-072020

Tot Ion:168 Resp: 291788

Ion Ratio Lower Upper

168 100

99 49.5 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

150000

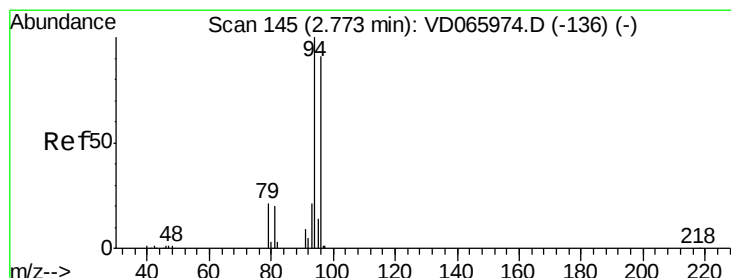
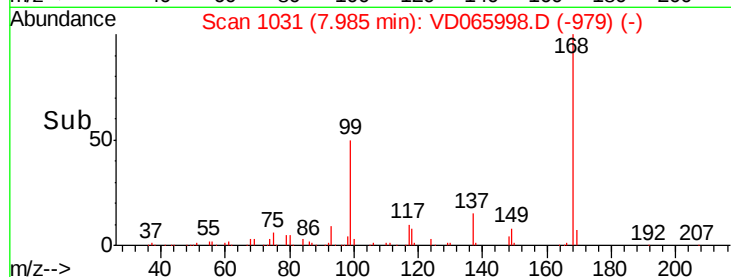
100000

50000

0

7.90 8.00 8.10

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.80 min Scan# 149

Delta R.T. 0.02 min

Lab File: VD065998.D

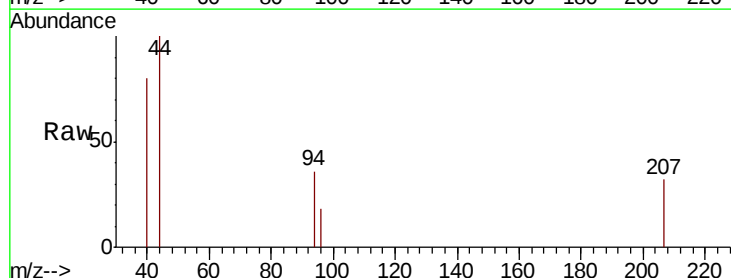
Acq: 22 Jul 2020 13:38

Tgt Ion: 94 Resp: 522

Ion Ratio Lower Upper

94 100

96 50.3 73.0 109.4#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

400

300

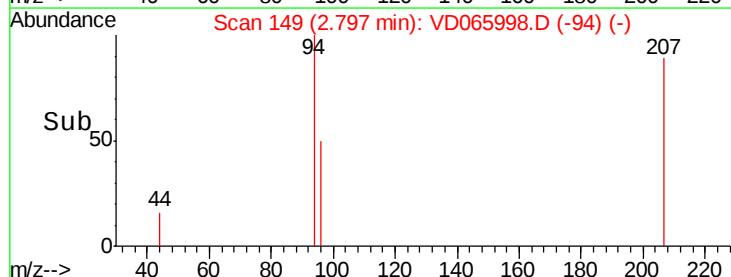
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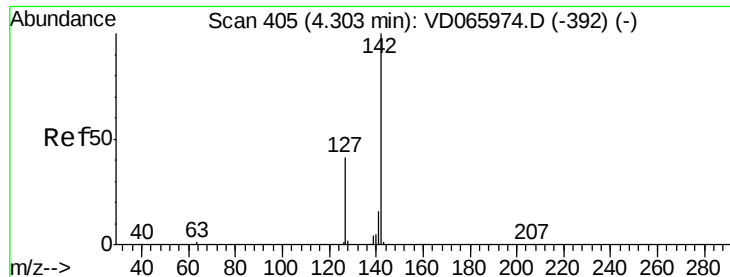
100

0

2.74 2.76 2.78 2.80 2.82

Time-->

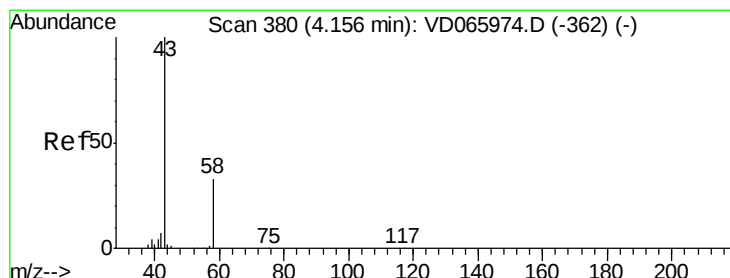
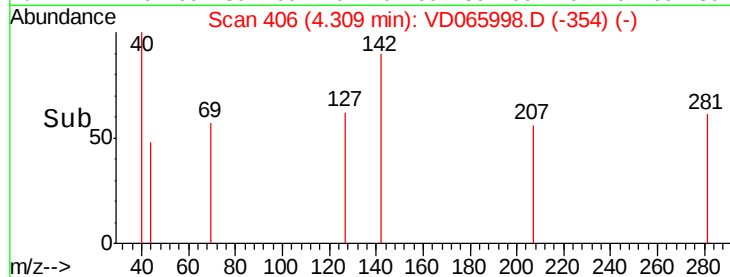
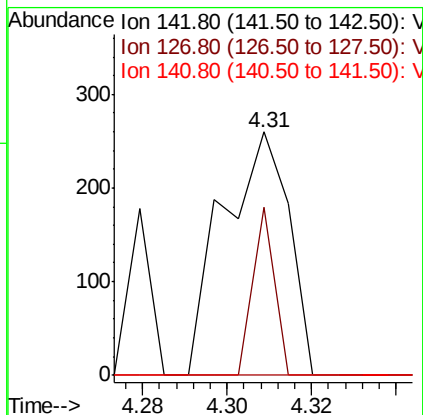
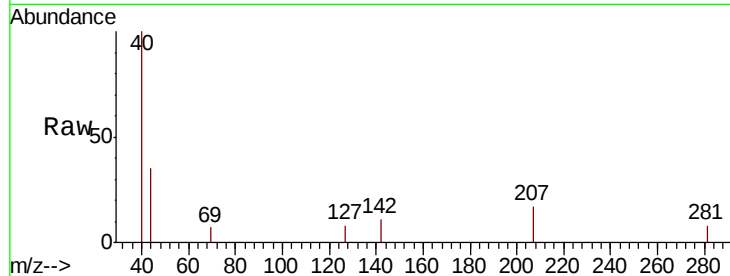




#10
Methyl Iodide
Concen: 8.903 ug/l
RT: 4.31 min Scan# 406
Delta R.T. 0.01 min
Lab File: VD065998.D
Acq: 22 Jul 2020 13:38

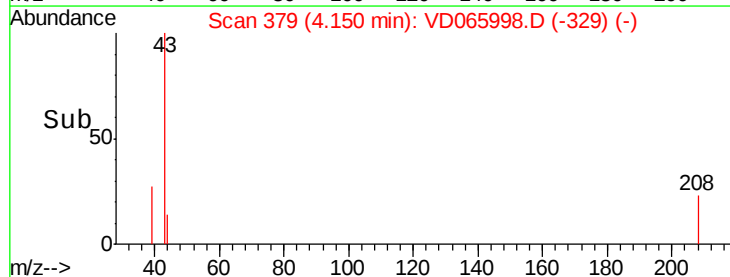
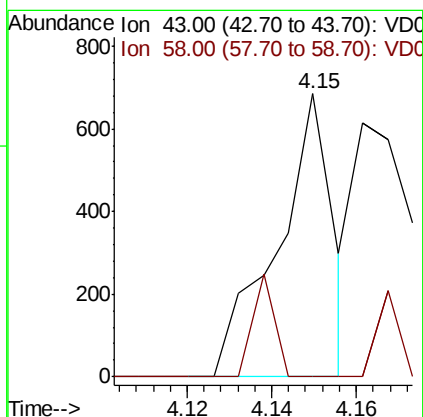
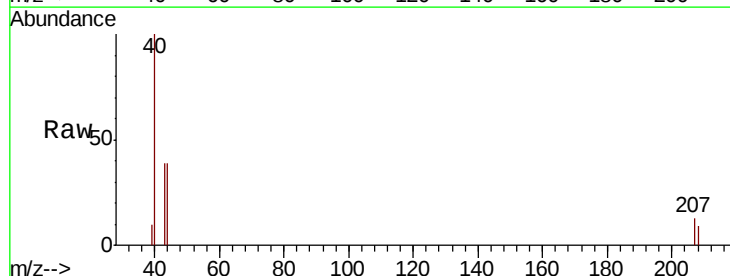
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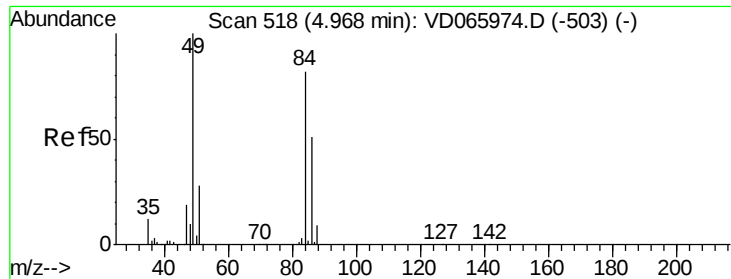
Tot Ion:142 Resp: 282
Ion Ratio Lower Upper
142 100
127 22.3 32.9 49.3#
141 0.0 11.8 17.6#



#16
Acetone
Concen: 1.305 ug/l
RT: 4.15 min Scan# 379
Delta R.T. -0.01 min
Lab File: VD065998.D
Acq: 22 Jul 2020 13:38

Tgt Ion: 43 Resp: 627
Ion Ratio Lower Upper
43 100
58 0.0 26.3 39.5#

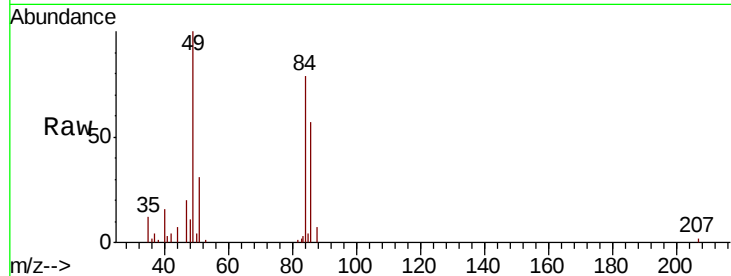




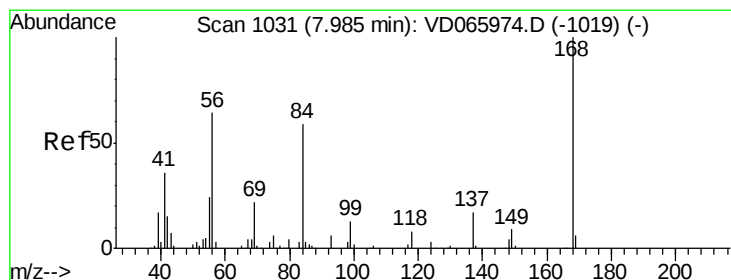
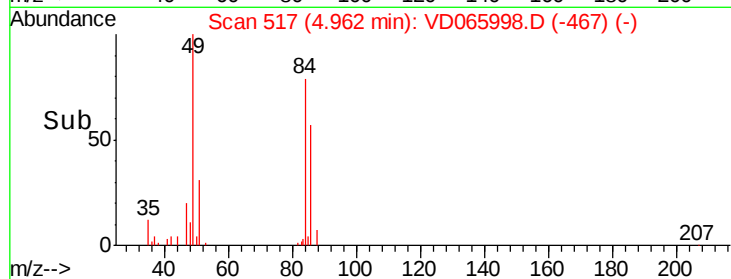
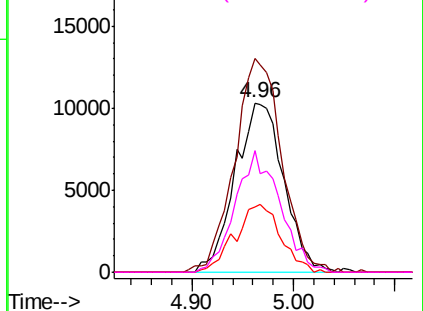
#20
Methvlene Chloride
Concen: 10.611 ug/l
RT: 4.96 min Scan# 517
Delta R.T. -0.01 min
Lab File: VD065998.D
Acq: 22 Jul 2020 13:38

Instrument :
MSVOA_D
ClientSampleId :
EO-03-072020

Tot Ion:	84	Resp:	34404
Ion	Ratio	Lower	Upper
84	100		
49	124.8	97.7	146.5
51	38.7	27.4	41.2
86	72.0	49.4	74.2

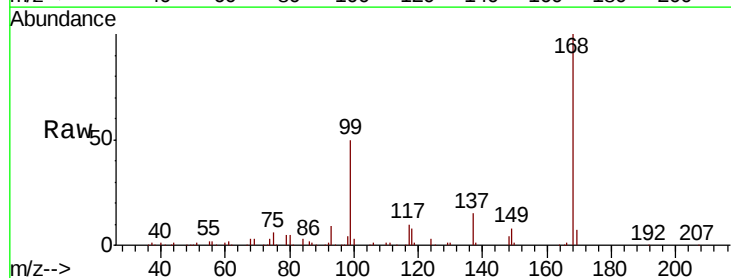


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

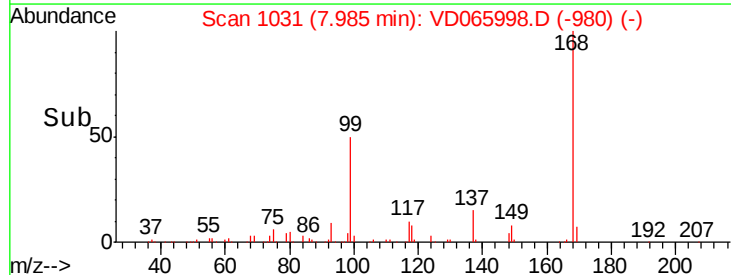
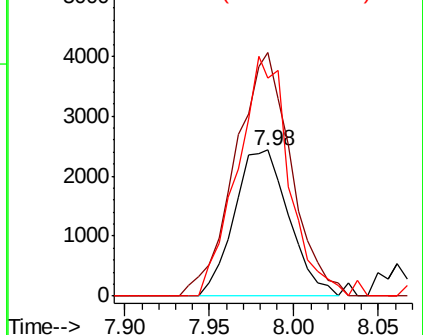


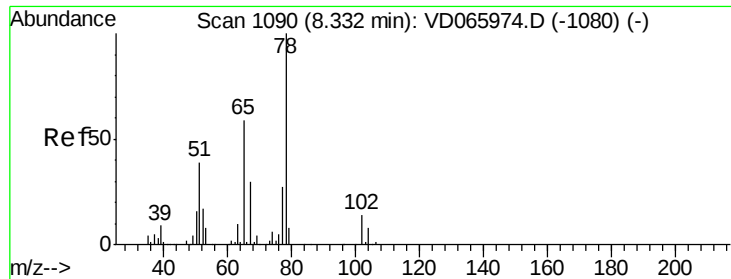
#31
Cyclohexane
Concen: 1.282 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065998.D
Acq: 22 Jul 2020 13:38

Tgt Ion:	56	Resp:	5474
Ion	Ratio	Lower	Upper
56	100		
69	159.1	28.0	42.0#
84	148.8	72.6	109.0#



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

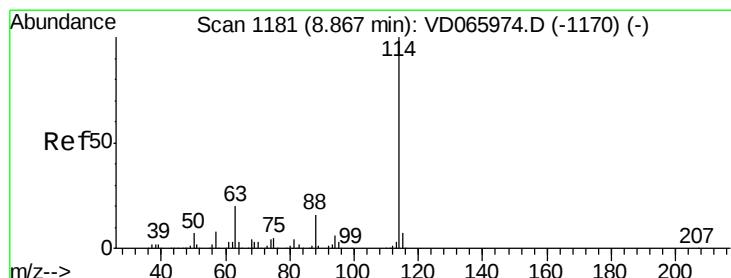
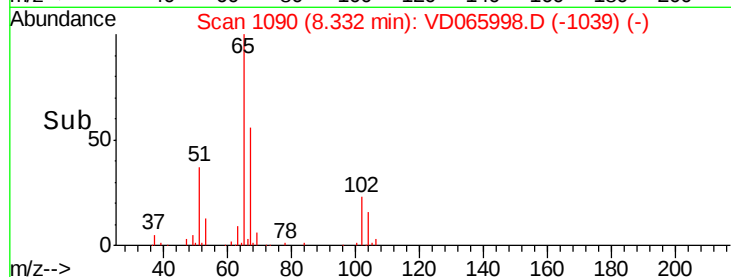
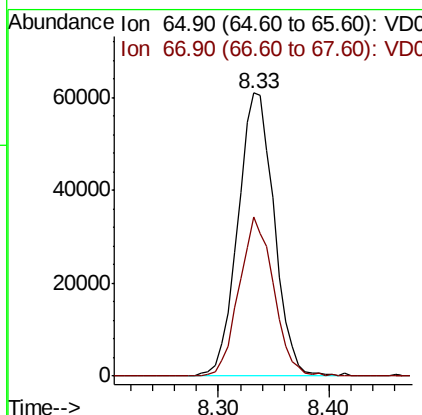
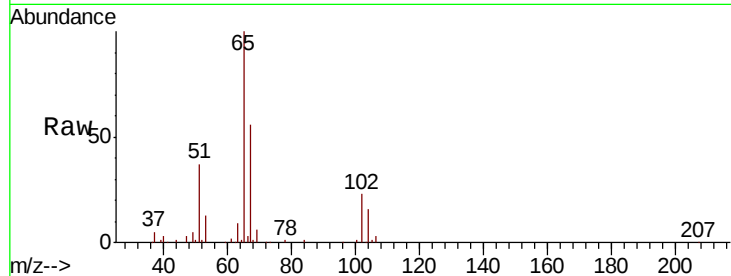




#33
 1,2-Dichloroethane-d4
 Concen: 59.309 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.00 min
 Lab File: VD065998.D
 Acq: 22 Jul 2020 13:38

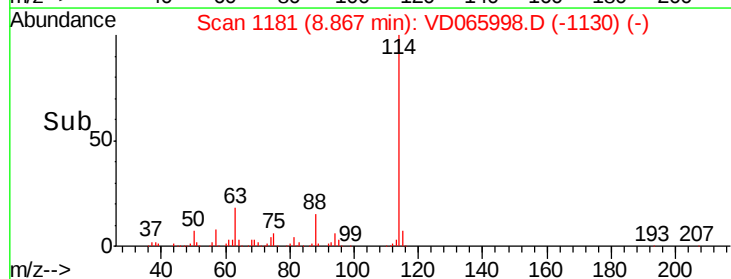
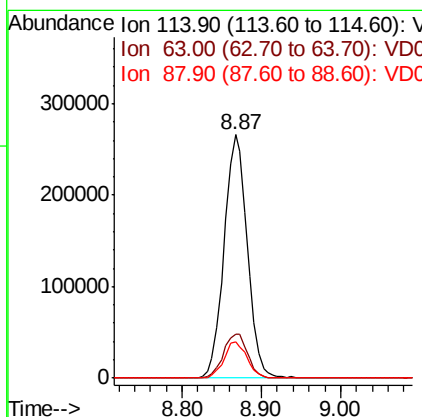
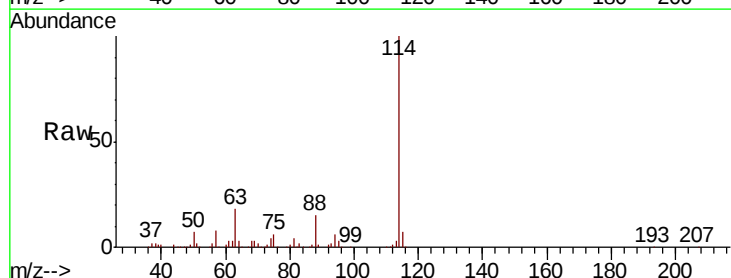
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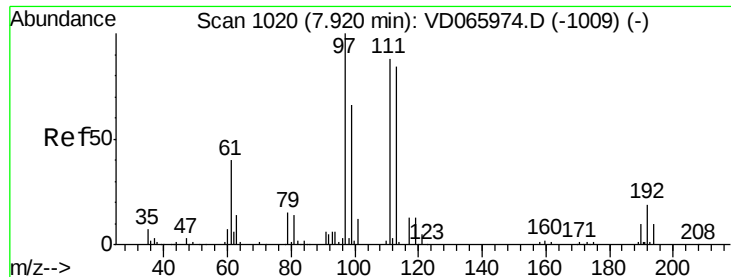
Tot Ion: 65 Resp: 140815
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD065998.D
 Acq: 22 Jul 2020 13:38

Tgt Ion: 114 Resp: 537996
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 39.6
 88 15.1 0.0 31.2

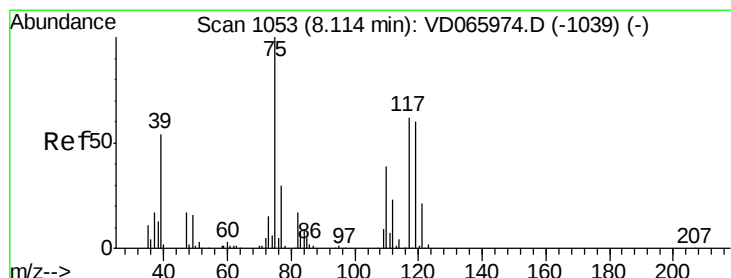
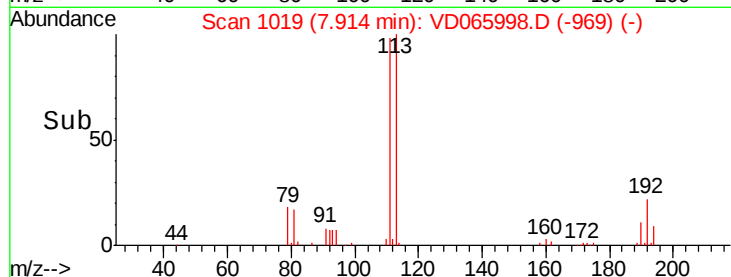
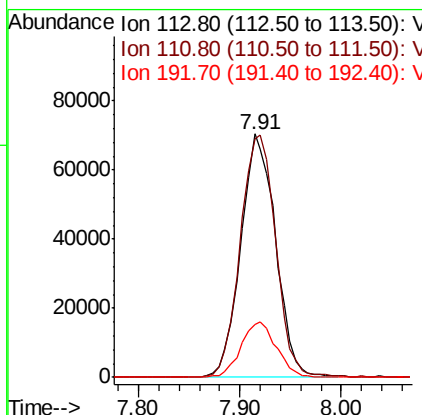
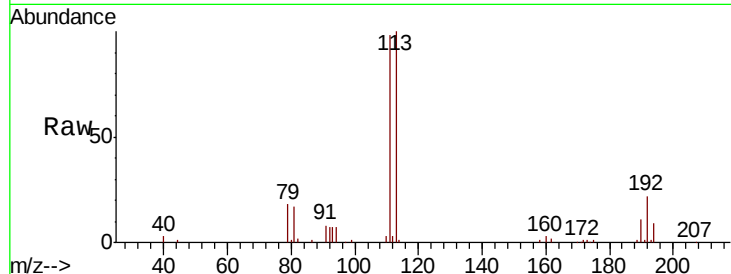




#35
 Dibromofluoromethane
 Concen: 51.510 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: VD065998.D
 Acq: 22 Jul 2020 13:38

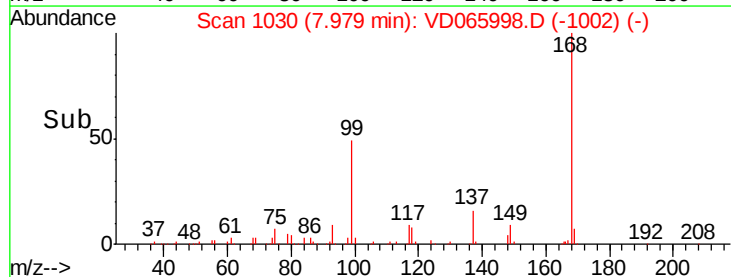
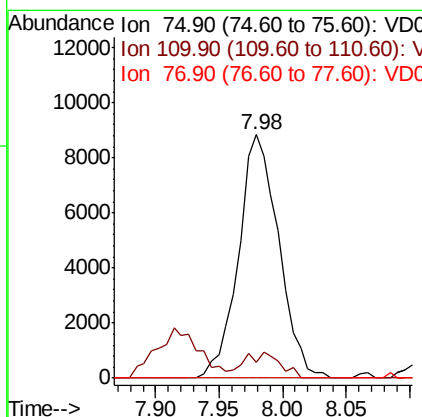
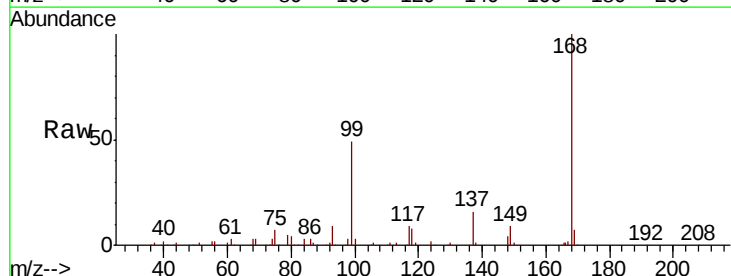
Instrument :
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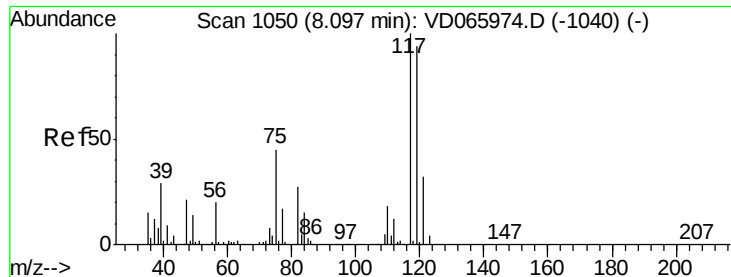
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	83.2	124.8
192	23.4	18.7	28.1



#36
 1,1-Dichloropropene
 Concen: 4.239 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD065998.D
 Acq: 22 Jul 2020 13:38

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	19.5	58.5#
77	0.0	24.7	37.1#

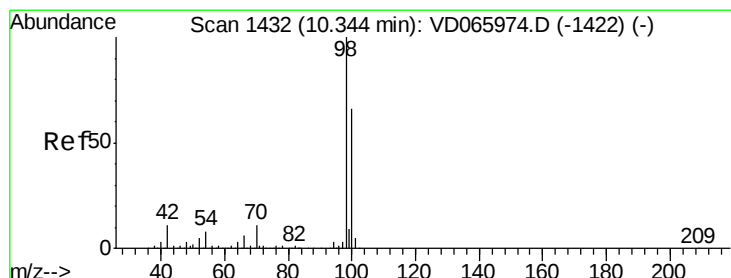
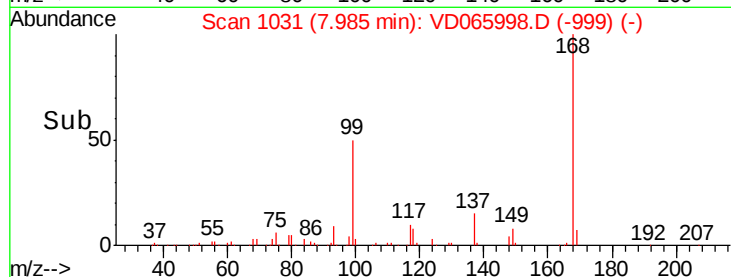
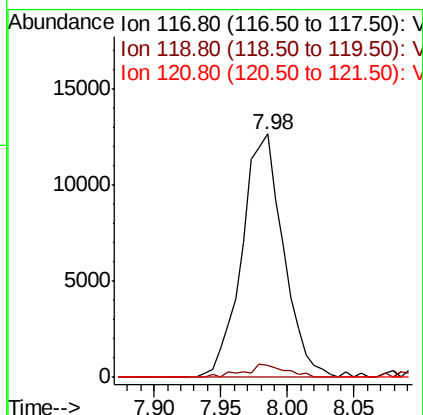
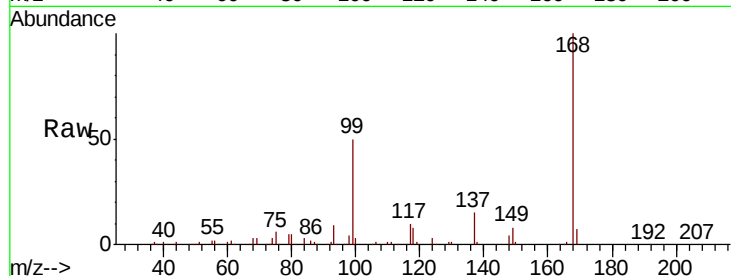




#38
Carbon Tetrachloride
Concen: 5.478 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD065998.D
Acq: 22 Jul 2020 13:38

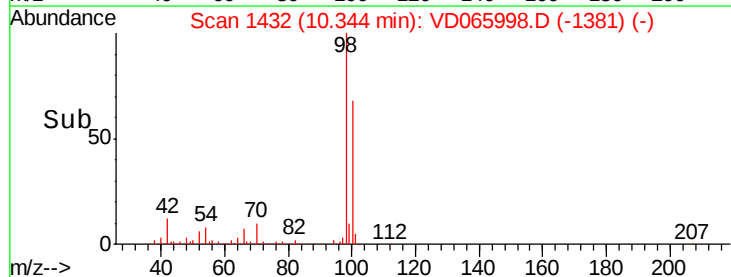
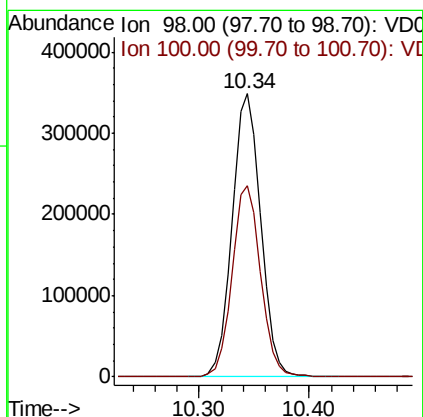
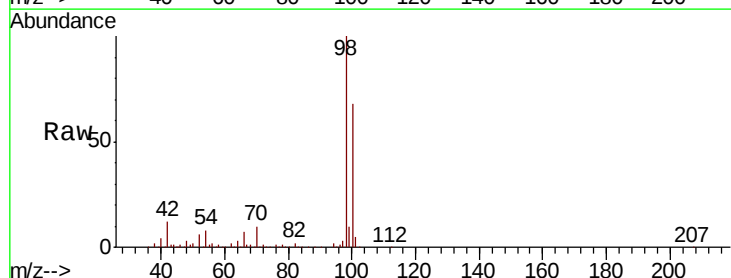
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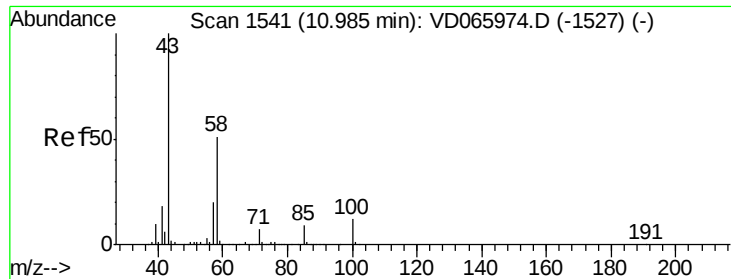
Tot Ion:117 Resp: 27292
Ion Ratio Lower Upper
117 100
119 5.1 75.0 112.6#
121 0.0 25.5 38.3#



#50
Toluene-d8
Concen: 52.389 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065998.D
Acq: 22 Jul 2020 13:38

Tgt Ion: 98 Resp: 636833
Ion Ratio Lower Upper
98 100
100 67.1 52.7 79.1

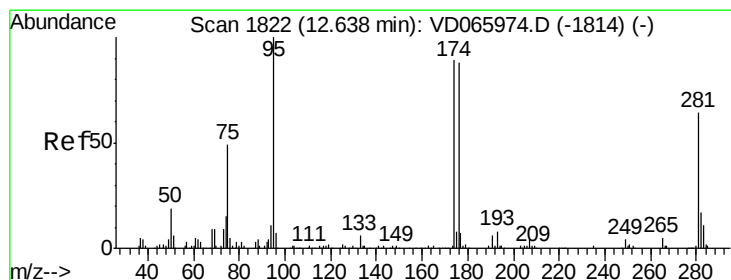
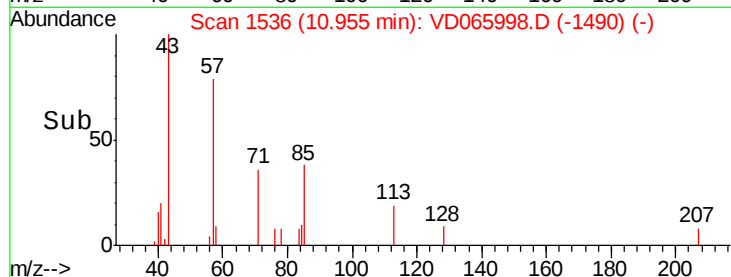
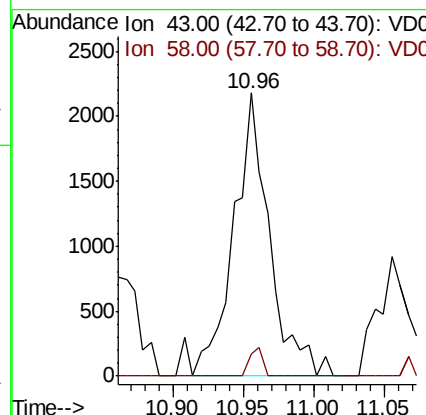
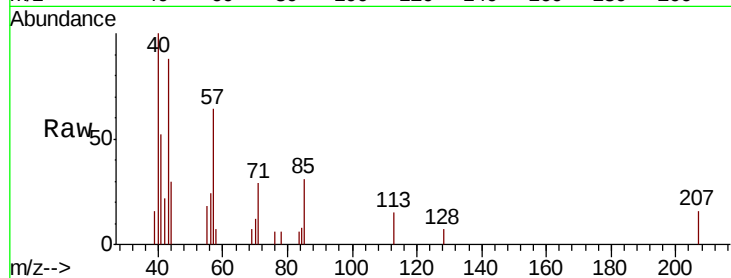




#59
2-Hexanone
Concen: 3.217 ug/l
RT: 10.96 min Scan# 1536
Delta R.T. -0.03 min
Lab File: VD065998.D
Acq: 22 Jul 2020 13:38

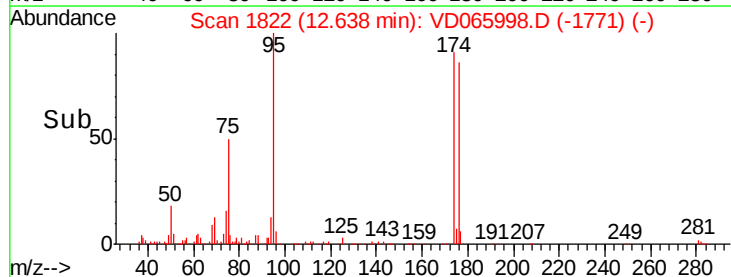
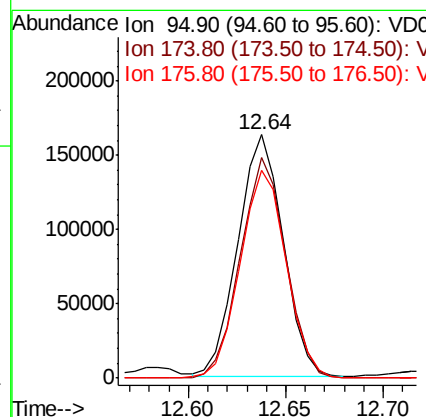
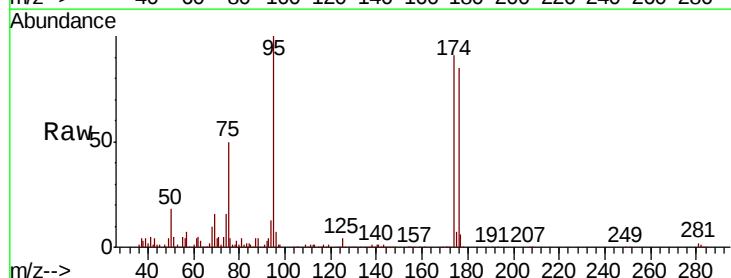
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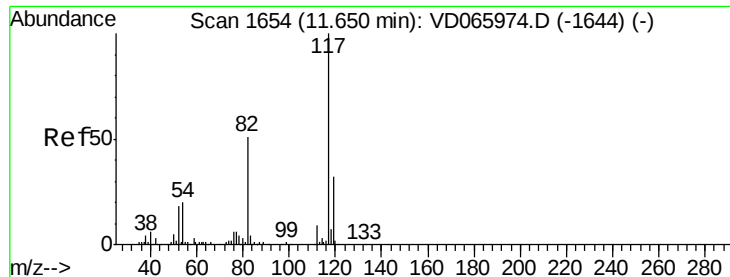
Tot Ion: 43 Resp: 3847
Ion Ratio Lower Upper
43 100
58 3.6 26.2 78.6#



#62
4-Bromofluorobenzene
Concen: 62.463 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065998.D
Acq: 22 Jul 2020 13:38

Tgt Ion: 95 Resp: 263277
Ion Ratio Lower Upper
95 100
174 90.6 0.0 178.8
176 87.0 0.0 172.6

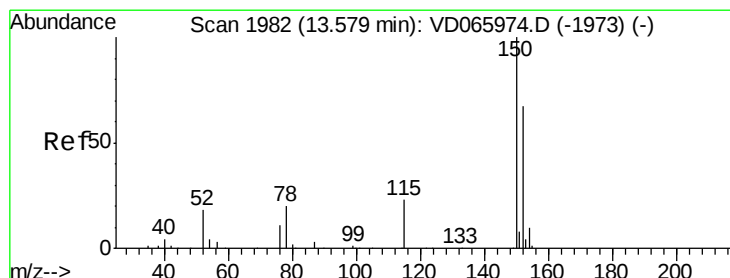
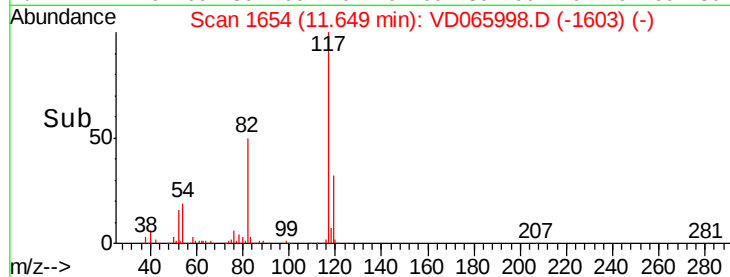
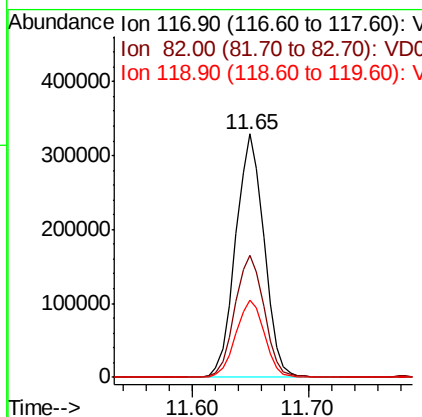
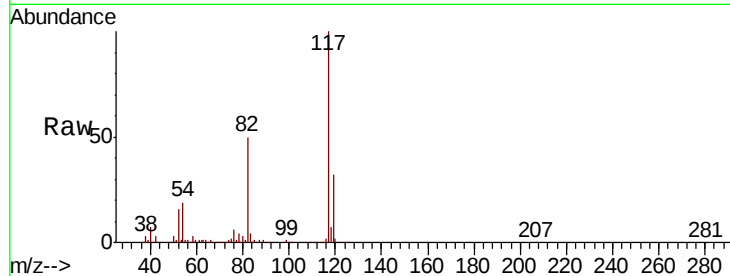




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065998.D
Acq: 22 Jul 2020 13:38

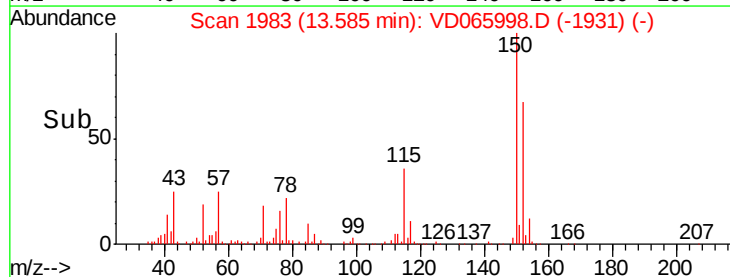
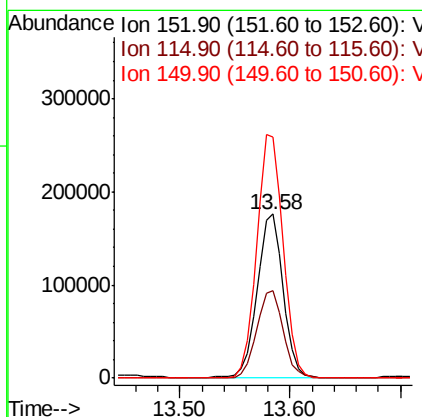
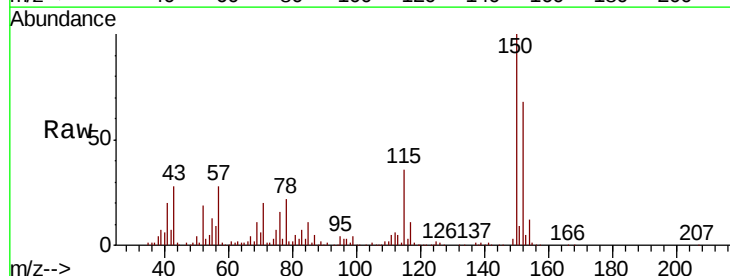
Instrument :
MSVOA_D
ClientSampleId :
EO-03-072020

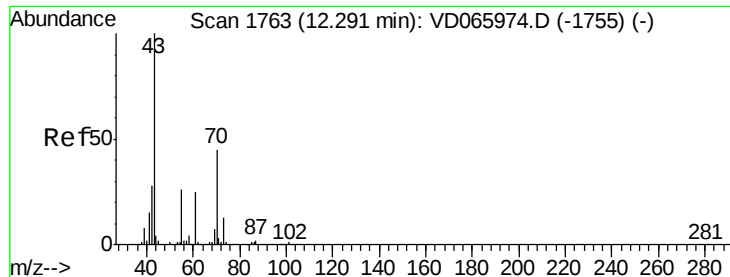
Tot Ion:117 Resp: 560736
Ion Ratio Lower Upper
117 100
82 49.9 41.1 61.7
119 31.6 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD065998.D
Acq: 22 Jul 2020 13:38

Tgt Ion:152 Resp: 290058
Ion Ratio Lower Upper
152 100
115 54.8 27.9 83.7
150 150.7 0.0 348.2





#74

N-amvl acetate

Concen: 12.118 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD065998.D

Acq: 22 Jul 2020 13:38

Instrument :

MSVOA_D

ClientSampleId :

EO-03-072020

Tot Ion: 43 Resp: 44100

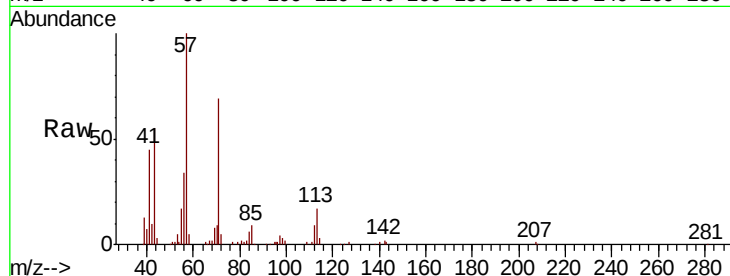
Ion Ratio Lower Upper

43 100

70 0.0 34.6 51.8#

55 0.0 20.3 30.5#

61 0.0 19.5 29.3#

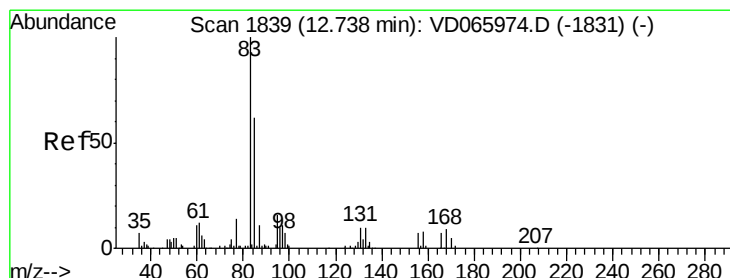
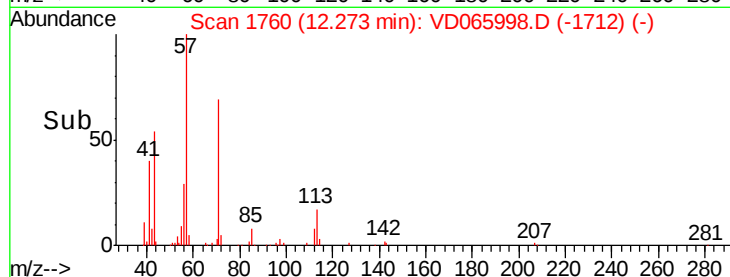
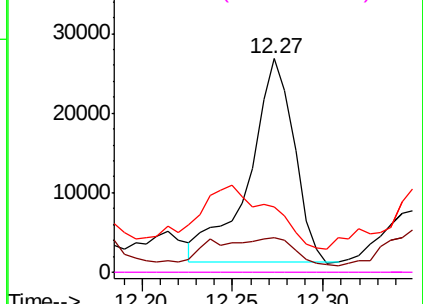


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#75

1,1,2,2-Tetrachloroethane

Concen: 3.388 ug/l

RT: 12.71 min Scan# 1834

Delta R.T. -0.03 min

Lab File: VD065998.D

Acq: 22 Jul 2020 13:38

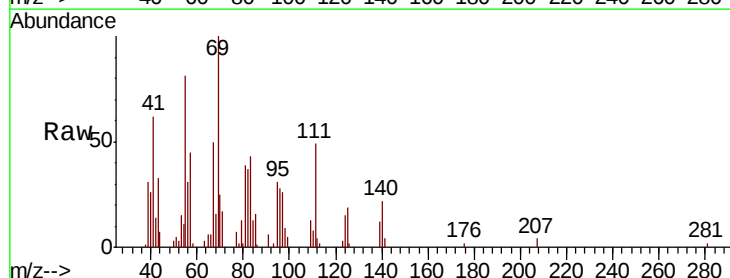
Tgt Ion: 83 Resp: 9827

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.1#

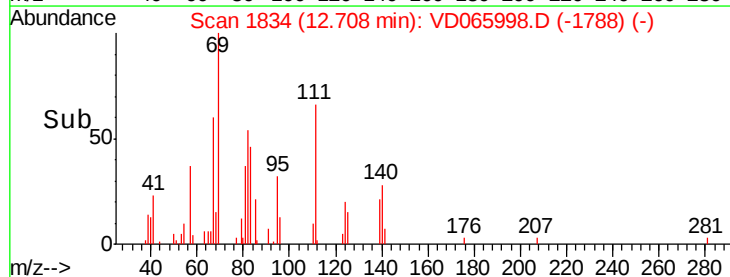
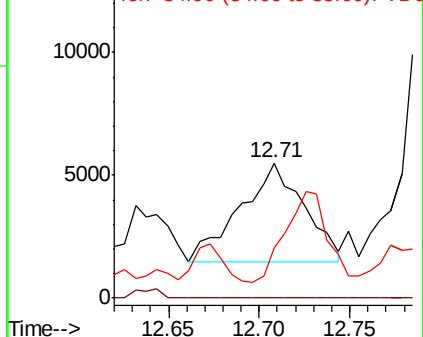
85 60.6 31.9 95.5

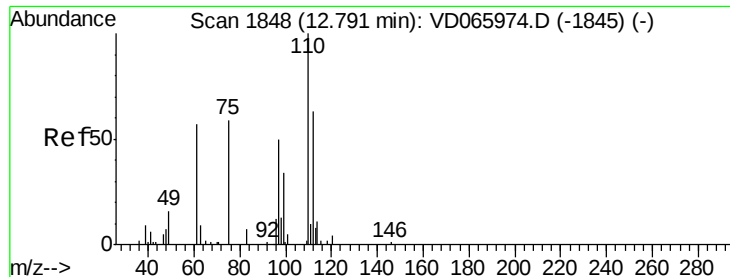


Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VDC

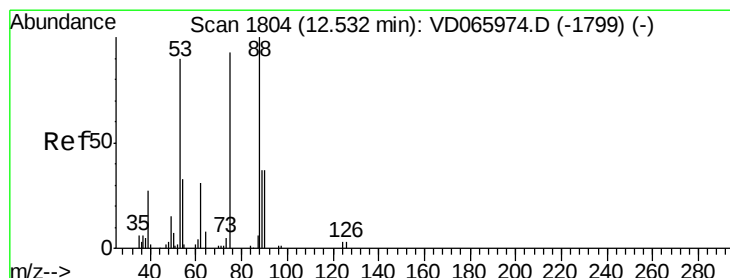
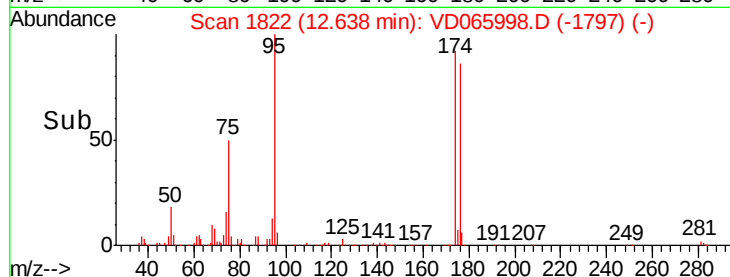
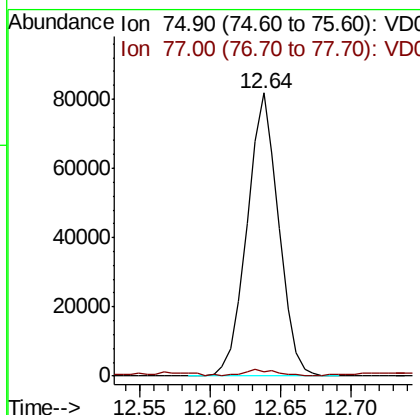
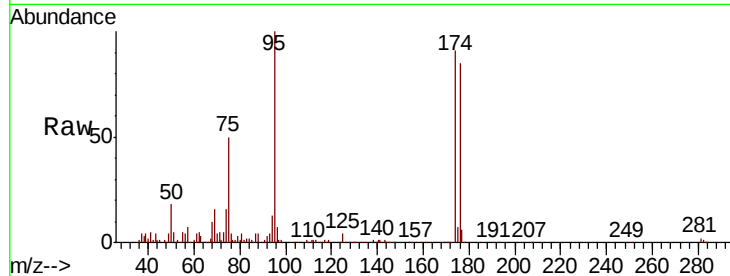




#76
 1,2,3-Trichloropropane
 Concen: 58.602 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. -0.15 min
 Lab File: VD065998.D
 Acq: 22 Jul 2020 13:38

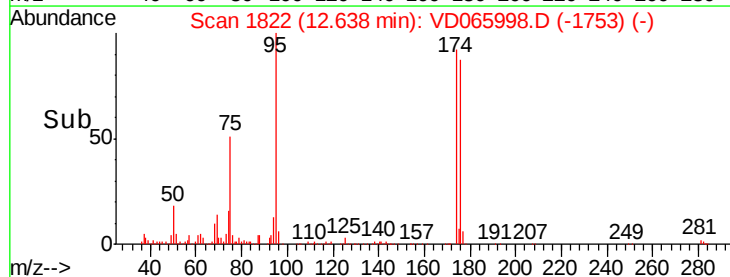
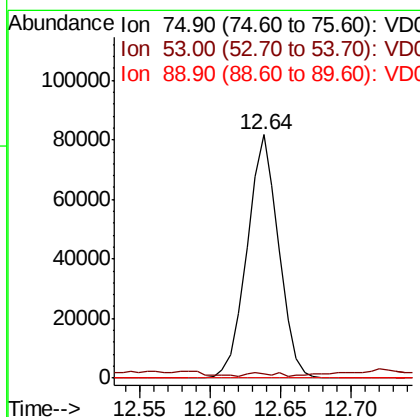
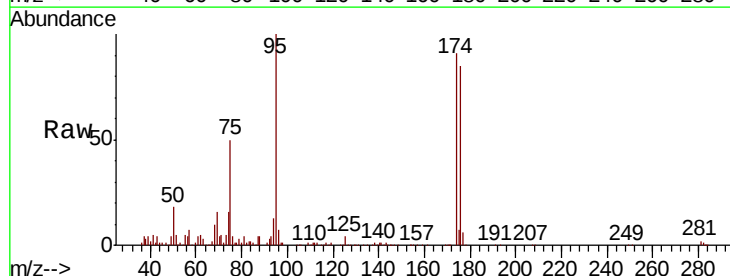
Instrument :
 MSVOA_D
 ClientSampleId :
 EO-03-072020

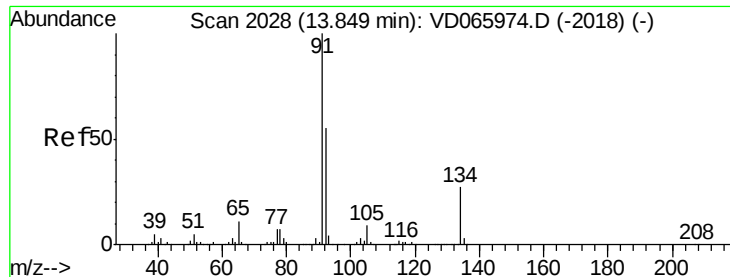
Tot Ion: 75 Resp: 127986
 Ion Ratio Lower Upper
 75 100
 77 2.5 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 134.471 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.11 min
 Lab File: VD065998.D
 Acq: 22 Jul 2020 13:38

Tgt Ion: 75 Resp: 127986
 Ion Ratio Lower Upper
 75 100
 53 1.2 76.8 115.2#
 89 0.0 37.0 55.4#

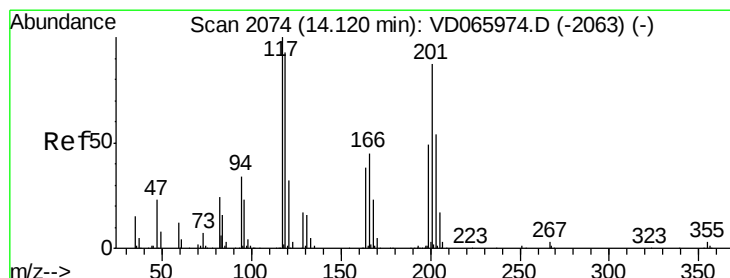
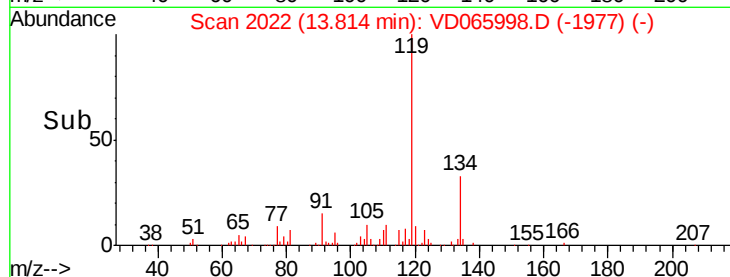
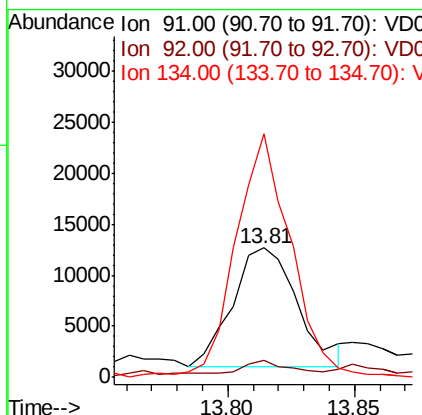
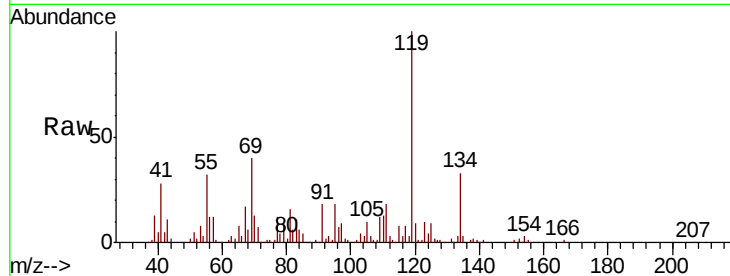




#89
n-Butylbenzene
Concen: 1.411 ug/l
RT: 13.81 min Scan# 2022
Delta R.T. -0.04 min
Lab File: VD065998.D
Acq: 22 Jul 2020 13:38

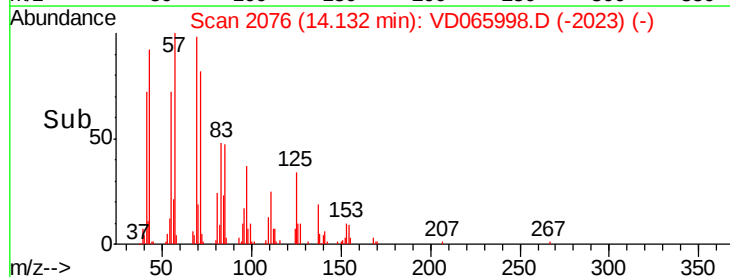
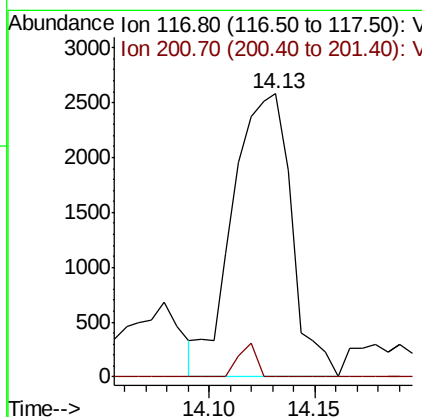
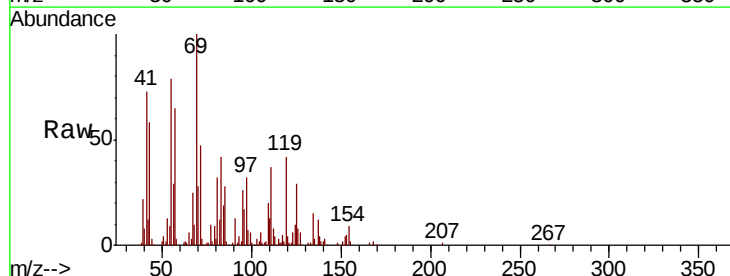
Instrument :
MSVOA_D
ClientSampleId :
EO-03-072020

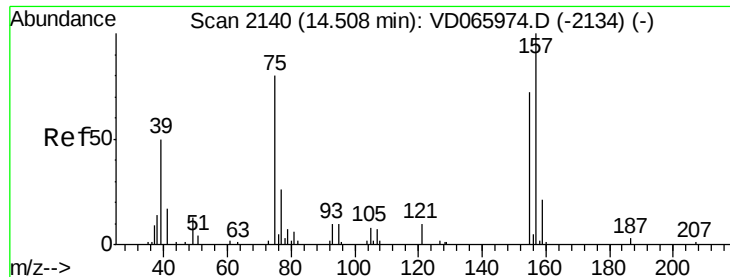
Tot Ion: 91 Resp: 20716
Ion Ratio Lower Upper
91 100
92 7.9 27.2 81.6#
134 175.9 13.8 41.4#



#90
Hexachloroethane
Concen: 1.519 ug/l
RT: 14.13 min Scan# 2076
Delta R.T. 0.01 min
Lab File: VD065998.D
Acq: 22 Jul 2020 13:38

Tgt Ion: 117 Resp: 4965
Ion Ratio Lower Upper
117 100
201 3.6 42.0 126.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.270 ug/l

RT: 14.54 min Scan# 2145

Delta R.T. 0.03 min

Lab File: VD065998.D

Acq: 22 Jul 2020 13:38

Instrument :

MSVOA_D

ClientSampleId :

EO-03-072020

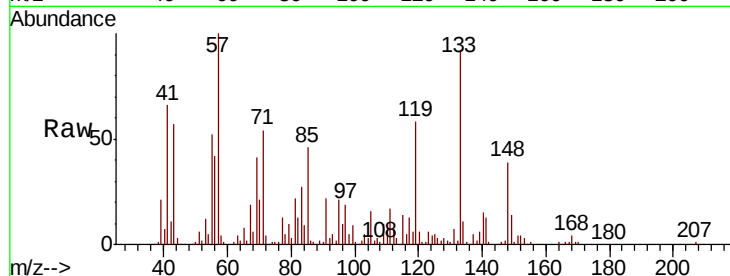
Tot Ion: 75 Resp: 1079

Ion Ratio Lower Upper

75 100

155 76.2 48.5 145.5

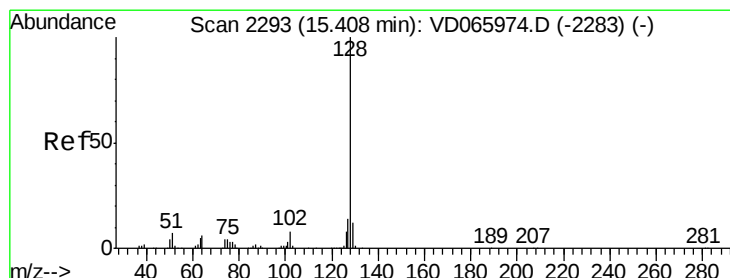
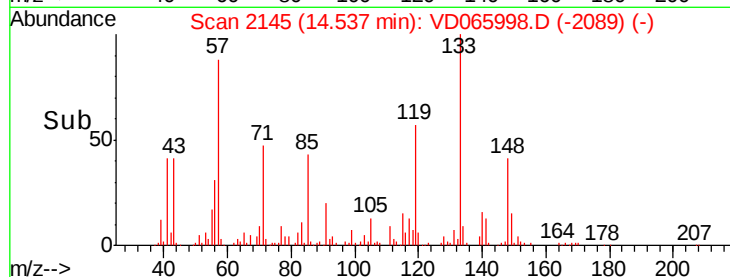
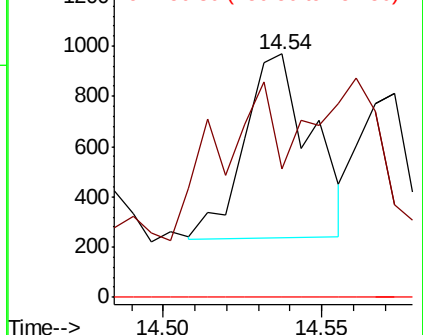
157 0.0 64.7 194.1#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#95

Naphthalene

Concen: 5.097 ug/l

RT: 15.37 min Scan# 2286

Delta R.T. -0.04 min

Lab File: VD065998.D

Acq: 22 Jul 2020 13:38

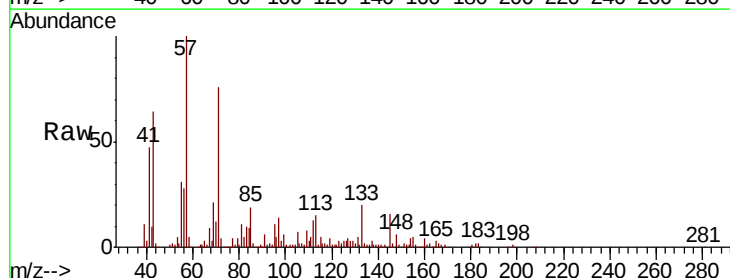
Tgt Ion: 128 Resp: 15367

Ion Ratio Lower Upper

128 100

127 88.6 10.8 16.2#

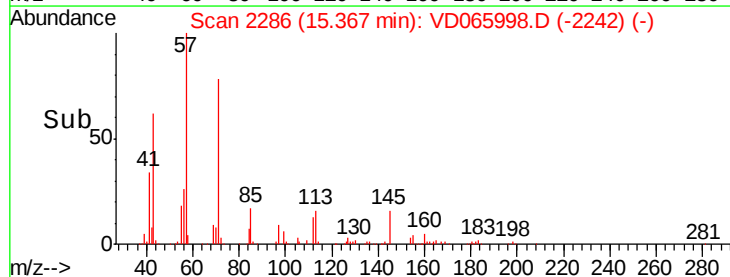
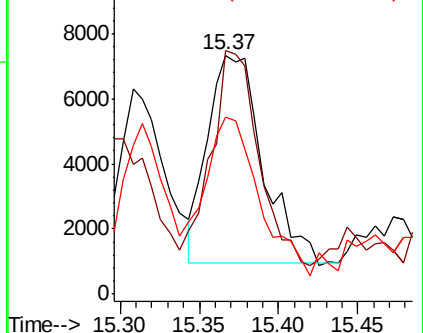
129 76.3 8.9 13.3#

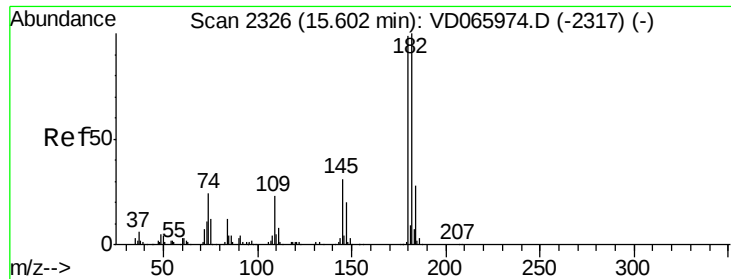


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 1.932 ug/l
 RT: 15.57 min Scan# 2320
 Delta R.T. -0.04 min
 Lab File: VD065998.D
 Acq: 22 Jul 2020 13:38

Instrument :
 MSVOA_D
 ClientSampleId :
 EO-03-072020

Tot Ion	Ratio	Lower	Upper
180	100		
182	36.6	47.9	143.6#
145	710.5	15.4	46.2#

