

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101220\
 Data File : VD067230.D
 Acq On : 12 Oct 2020 13:30
 Operator : VA/SY
 Sample : L4341-01
 Misc : 7.87G/5.00ml/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 STOCK-PILE

Quant Time: Oct 13 00:16:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

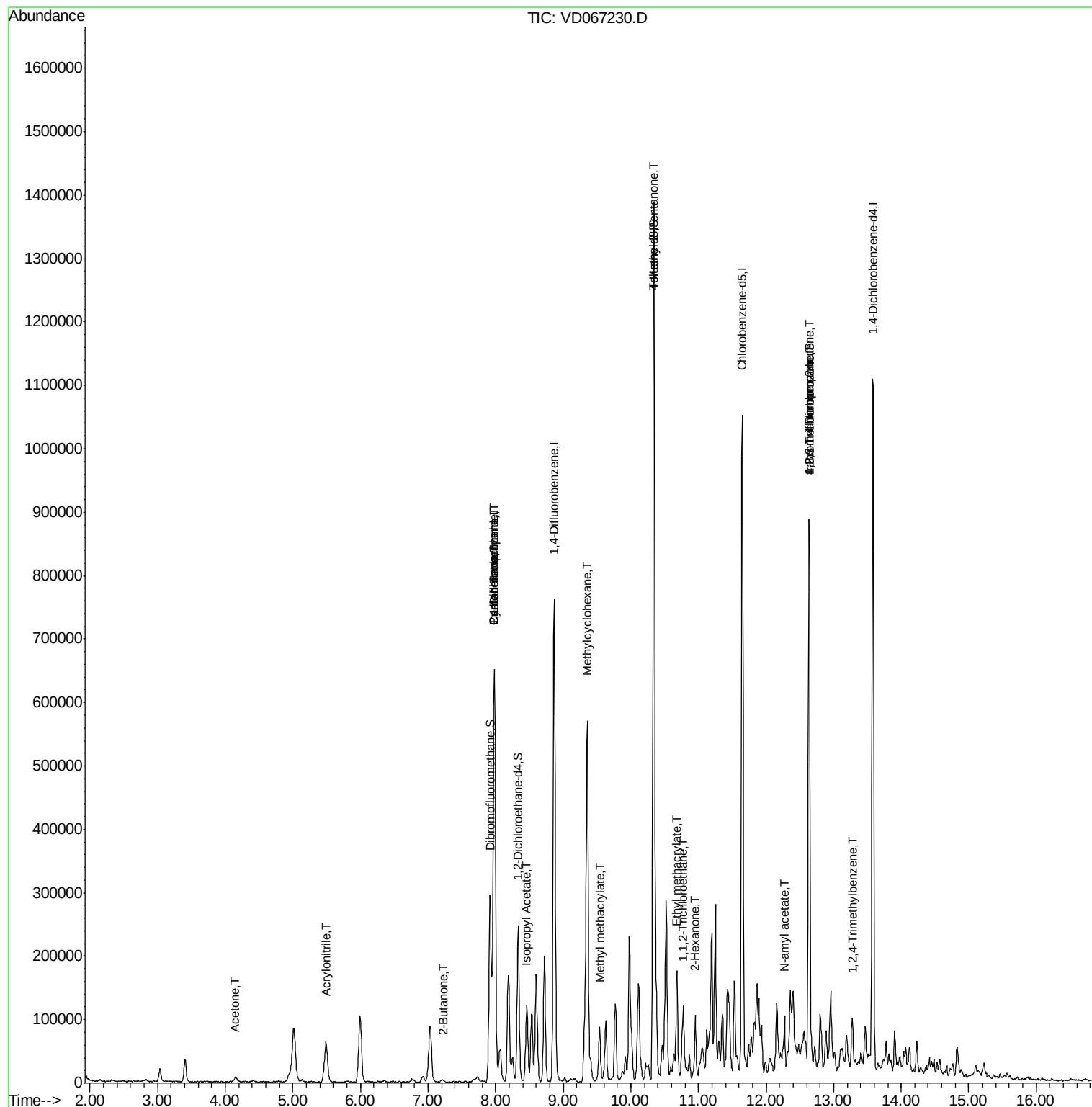
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	420719	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	671382	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	626052	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	307207	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.33	65	195779	48.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.62%	
35) Dibromofluoromethane	7.92	113	204990	46.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.28%	
50) Toluene-d8	10.34	98	789333	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
62) 4-Bromofluorobenzene	12.64	95	285477	52.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.00%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.99	85	924	Below Cal	#	40
5) Bromomethane	2.79	94	532	Below Cal	#	30
15) Acrylonitrile	5.49	53	2547	3.739	ug/l #	47
16) Acetone	4.15	43	11059	17.878	ug/l #	88
20) Methylene Chloride	4.98	84	4103	Below Cal	#	77
25) 2-Butanone	7.23	43	1991	2.270	ug/l #	46
26) 2,2-Dichloropropane	7.22	77	660	Below Cal	#	53
31) Cyclohexane	7.98	56	71678	11.778	ug/l #	90
36) 1,1-Dichloropropene	7.98	75	29567	4.725	ug/l #	54
38) Carbon Tetrachloride	7.98	117	42219	6.235	ug/l #	14
39) Methylcyclohexane	9.36	83	264860	40.032	ug/l	96
43) Isopropyl Acetate	8.45	43	13246	3.317	ug/l #	48
48) Methyl methacrylate	9.54	41	18254	8.921	ug/l #	49
51) 4-Methyl-2-Pentanone	10.34	43	14841	7.460	ug/l	94
55) 1,1,2-Trichloroethane	10.77	97	39840	12.208	ug/l #	23
56) Ethyl methacrylate	10.68	69	18029	5.351	ug/l #	4
59) 2-Hexanone	10.96	43	30440	22.926	ug/l #	28
74) N-amyl acetate	12.27	43	13358	3.562	ug/l #	53
76) 1,2,3-Trichloropropane	12.64	75	147238	55.024	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	147238	137.182	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.27	105	43808	2.491	ug/l	94

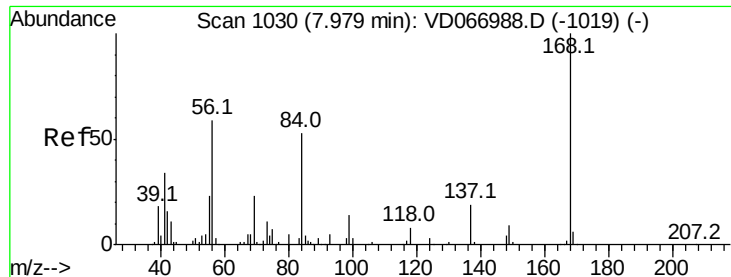
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

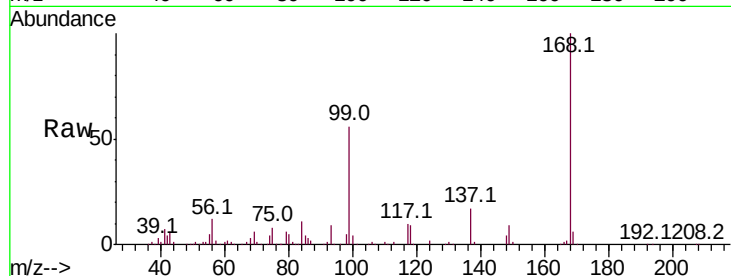
STOCK-PILE

Tot Ion:168 Resp: 420719

Ion Ratio Lower Upper

168 100

99 56.3 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

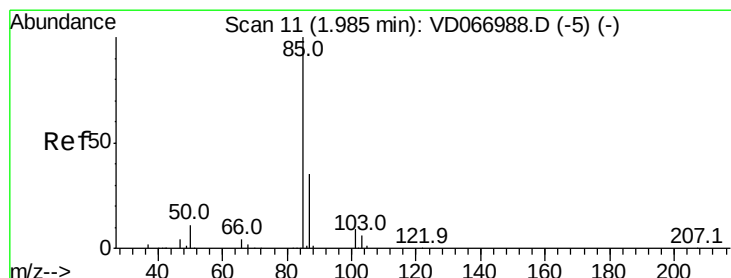
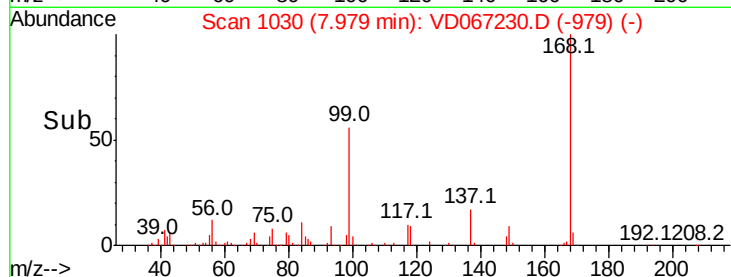
150000

100000

50000

0

Time--> 7.85 7.90 7.95 8.00 8.05



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067230.D

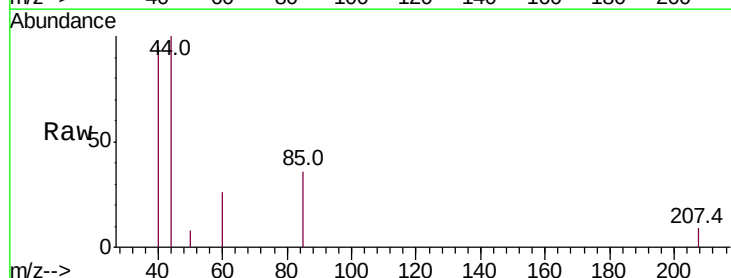
Acq: 12 Oct 2020 13:30

Tgt Ion: 85 Resp: 924

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

1000

800

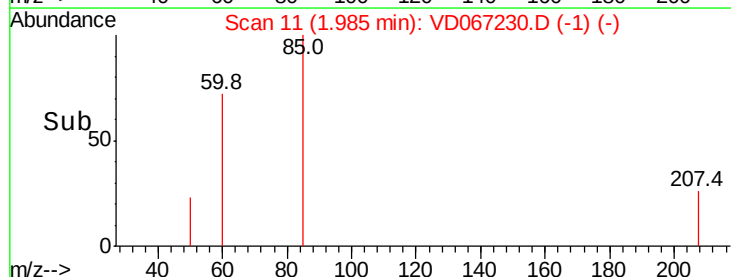
600

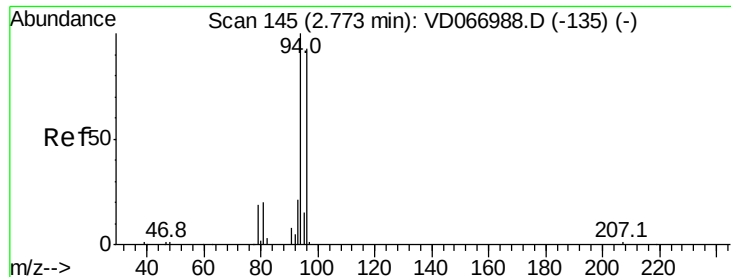
400

200

0

Time--> 1.94 1.96 1.98 2.00 2.02





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

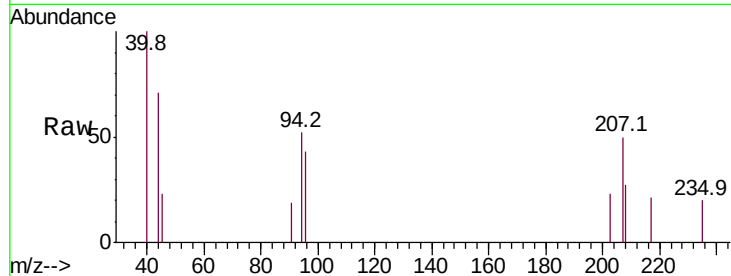
STOCK-PILE

Tot Ion: 94 Resp: 532

Ion Ratio Lower Upper

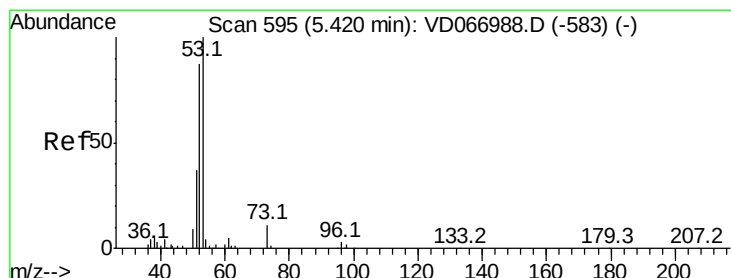
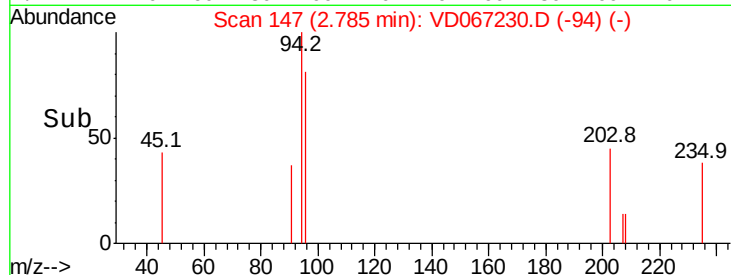
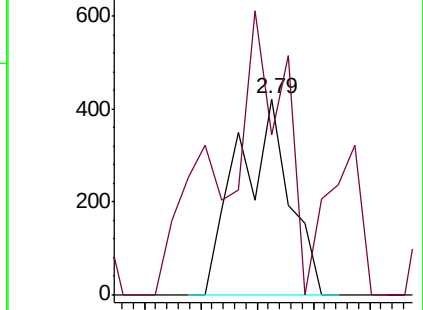
94 100

96 25.5 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#15

Acrylonitrile

Concen: 3.739 ug/l

RT: 5.49 min Scan# 606

Delta R.T. 0.06 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

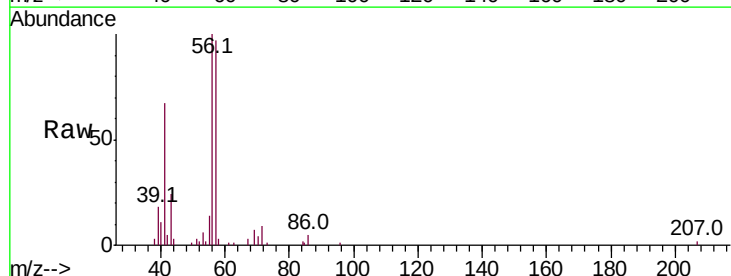
Tgt Ion: 53 Resp: 2547

Ion Ratio Lower Upper

53 100

52 22.3 67.3 100.9#

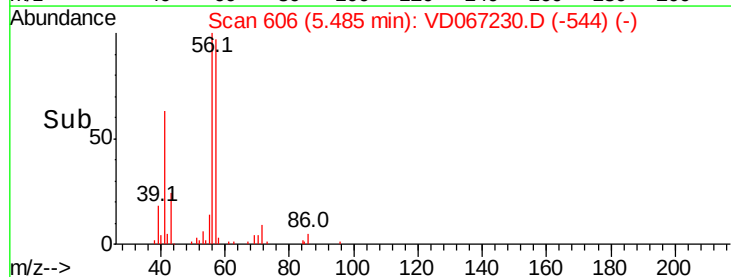
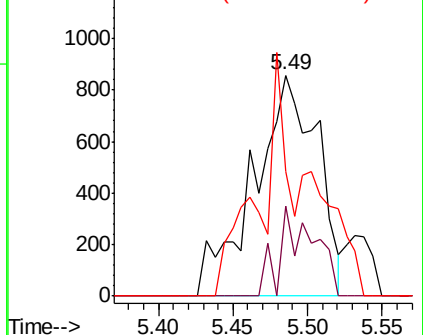
51 48.6 30.2 45.2#

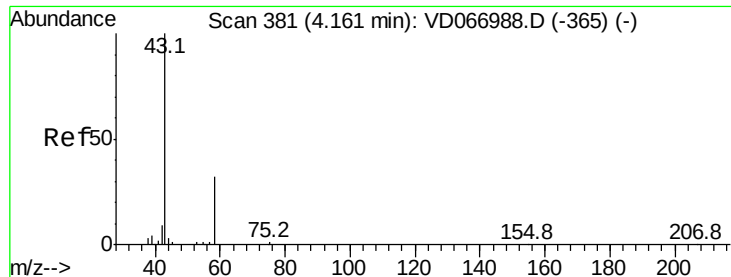


Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC





#16

Acetone

Concen: 17.878 ug/l

RT: 4.15 min Scan# 379

Delta R.T. -0.01 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

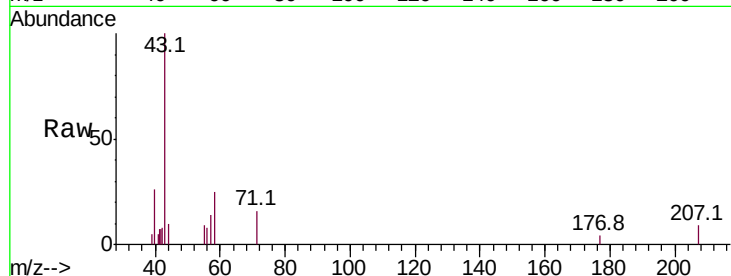
STOCK-PILE

Tot Ion: 43 Resp: 11059

Ion Ratio Lower Upper

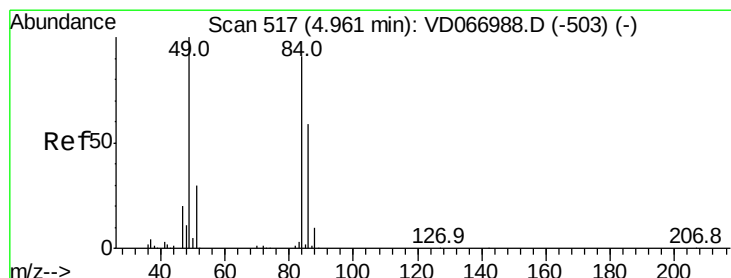
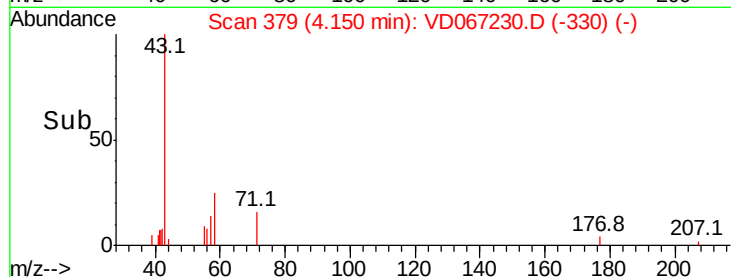
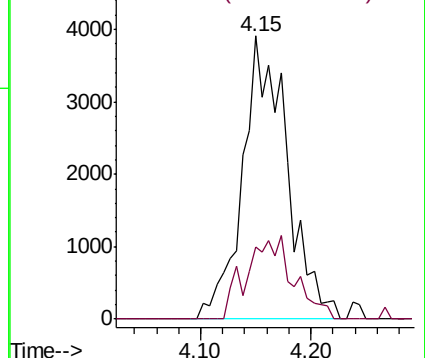
43 100

58 25.5 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.98 min Scan# 520

Delta R.T. 0.02 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

Tgt Ion: 84 Resp: 4103

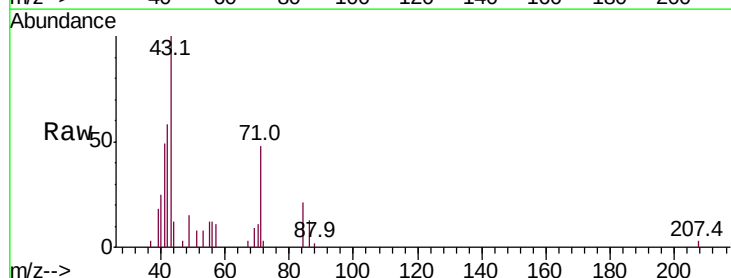
Ion Ratio Lower Upper

84 100

49 70.8 88.2 132.2#

51 39.9 26.6 39.8#

86 62.2 52.1 78.1

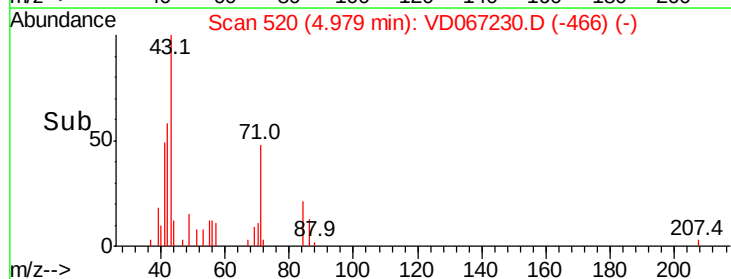
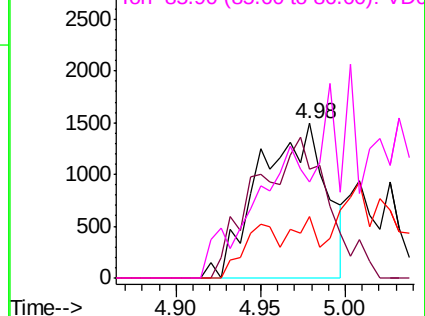


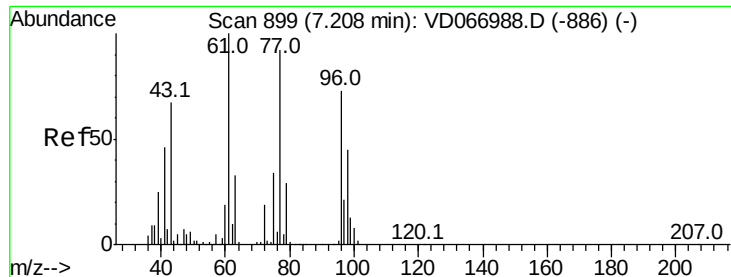
Abundance Ion 83.90 (83.60 to 84.60): VDC

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





#25

2-Butanone

Concen: 2.270 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.02 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

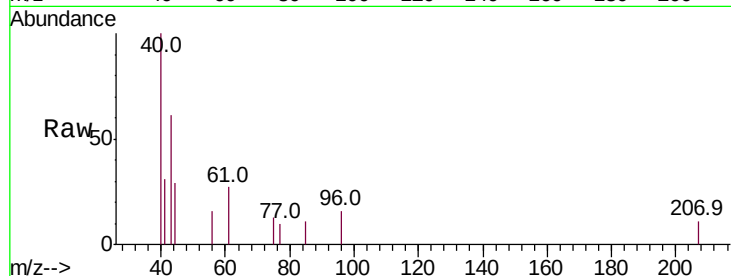
STOCK-PILE

Tot Ion: 43 Resp: 1991

Ion Ratio Lower Upper

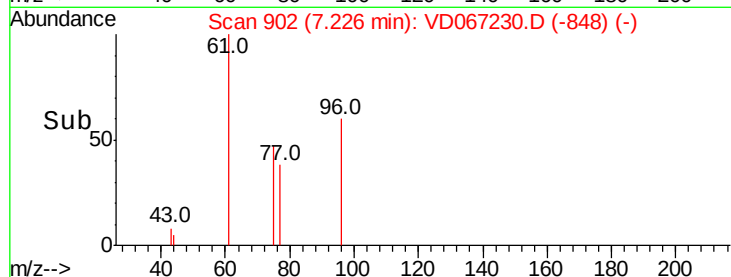
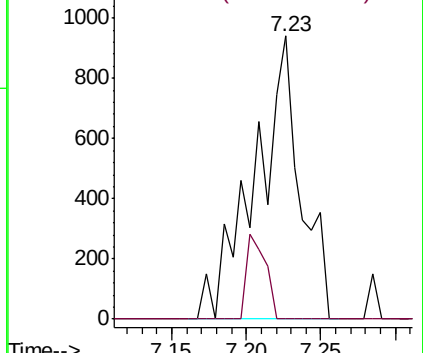
43 100

72 0.0 22.8 34.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD067230.D

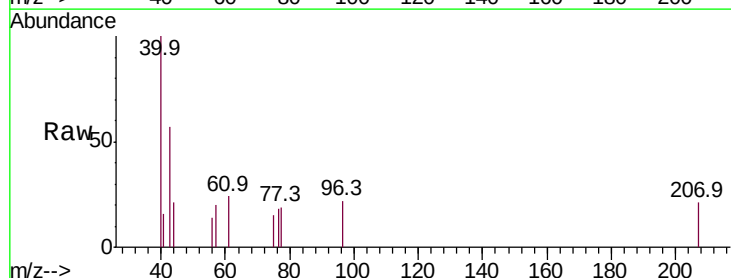
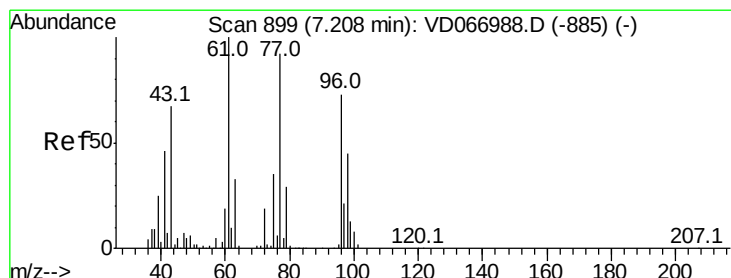
Acq: 12 Oct 2020 13:30

Tgt Ion: 77 Resp: 660

Ion Ratio Lower Upper

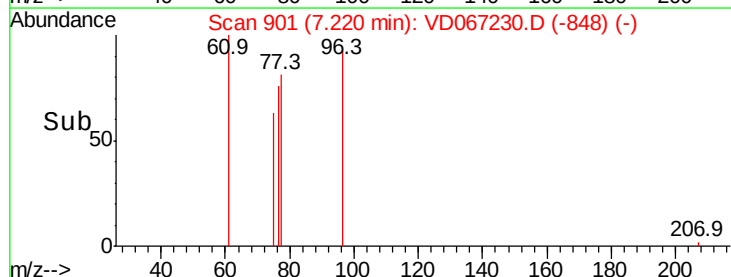
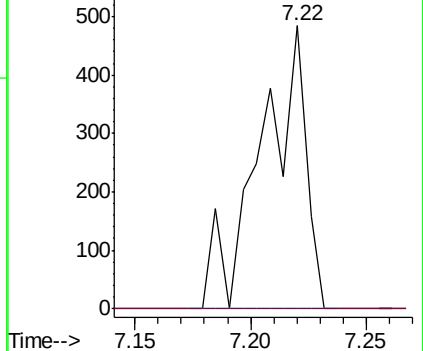
77 100

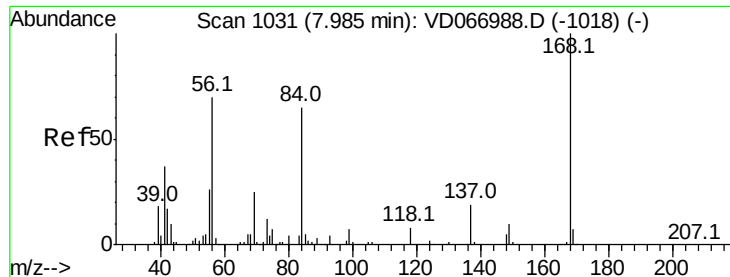
97 0.0 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

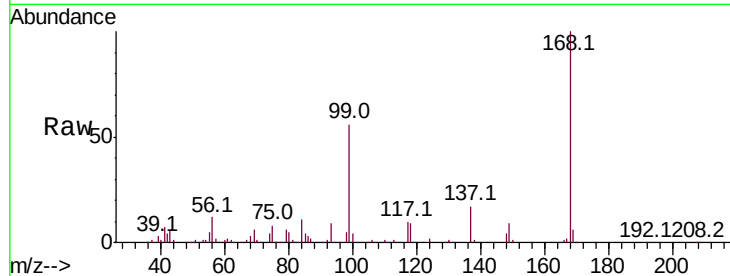




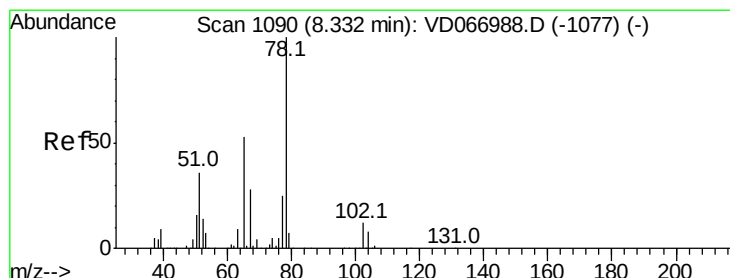
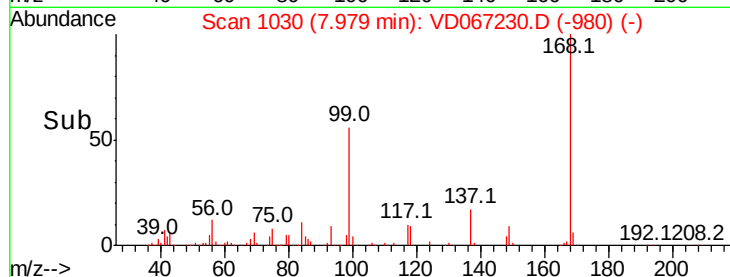
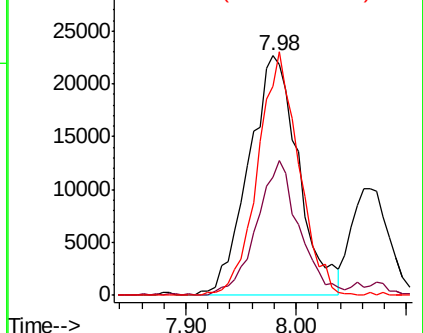
#31
Cyclohexane
Concen: 11.778 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD067230.D
Acq: 12 Oct 2020 13:30

Instrument :
MSVOA_D
ClientSampleId :
STOCK-PILE

Tot Ion: 56 Resp: 71678
Ion Ratio Lower Upper
56 100
69 48.5 29.0 43.6#
84 87.2 74.2 111.2

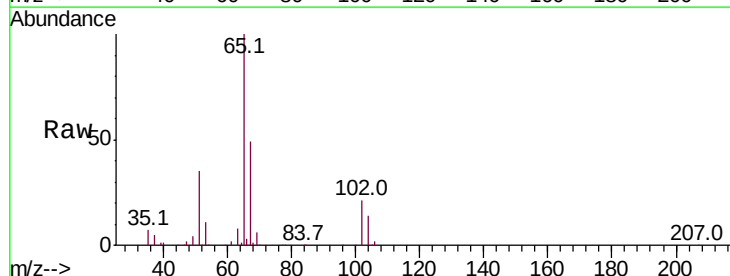


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

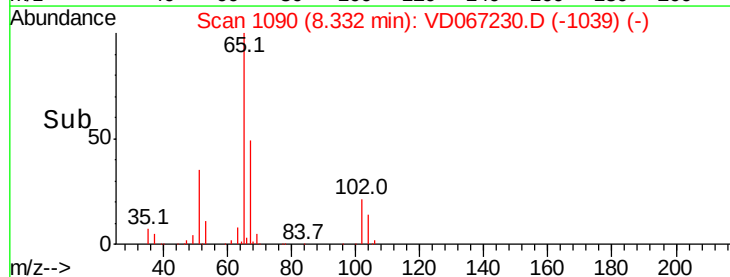
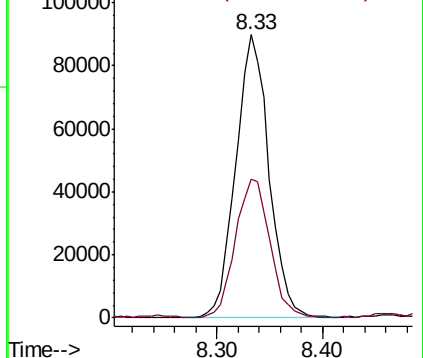


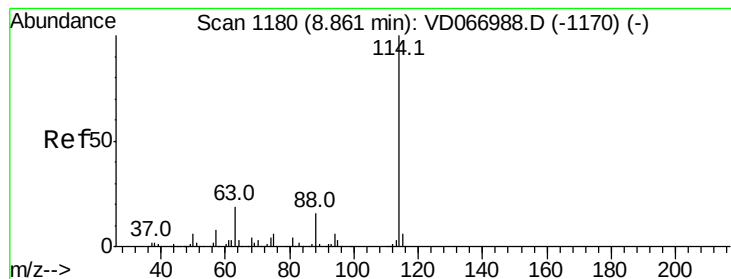
#33
1,2-Dichloroethane-d4
Concen: 48.313 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD067230.D
Acq: 12 Oct 2020 13:30

Tgt Ion: 65 Resp: 195779
Ion Ratio Lower Upper
65 100
67 51.0 0.0 106.8



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. 0.01 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

STOCK-PILE

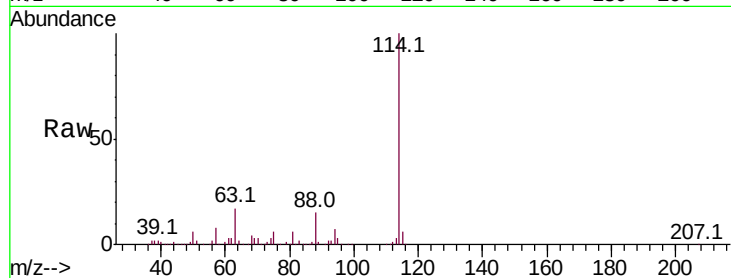
Tot Ion:114 Resp: 671382

Ion Ratio Lower Upper

114 100

63 16.8 0.0 38.4

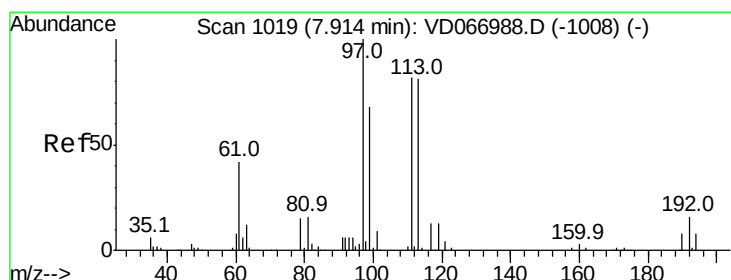
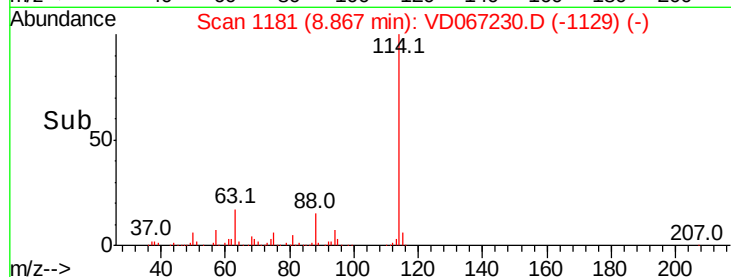
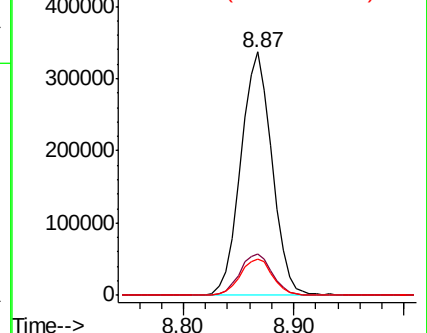
88 14.8 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 46.637 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

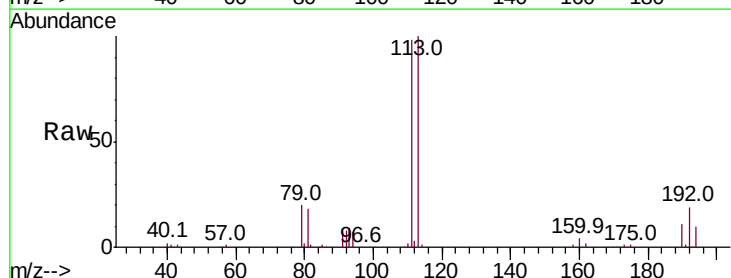
Tgt Ion:113 Resp: 204990

Ion Ratio Lower Upper

113 100

111 102.6 83.0 124.4

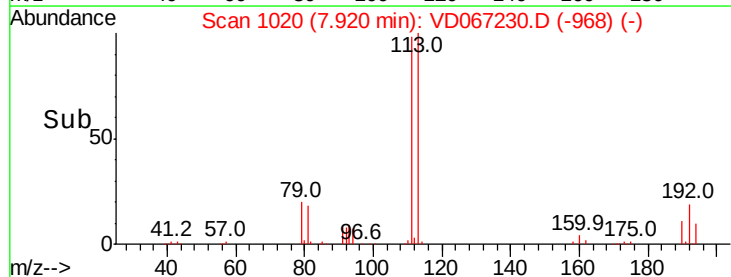
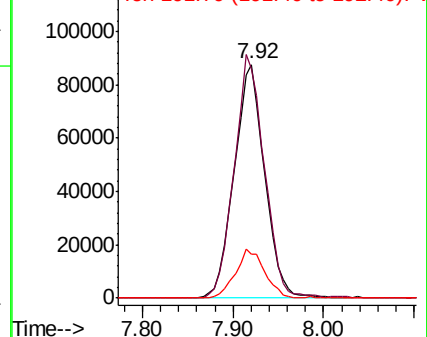
192 20.1 15.5 23.3

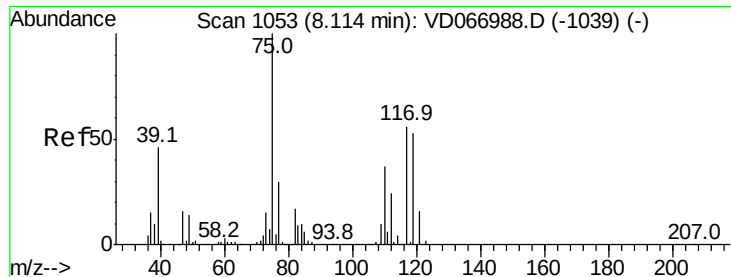


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.725 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

STOCK-PILE

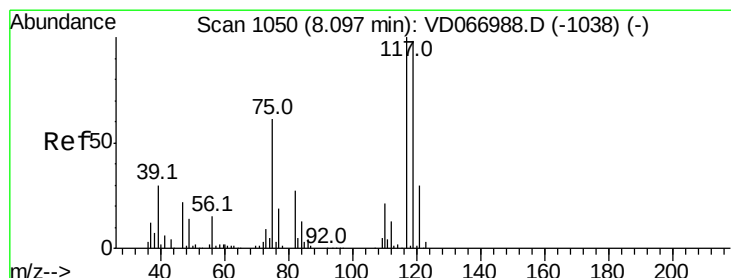
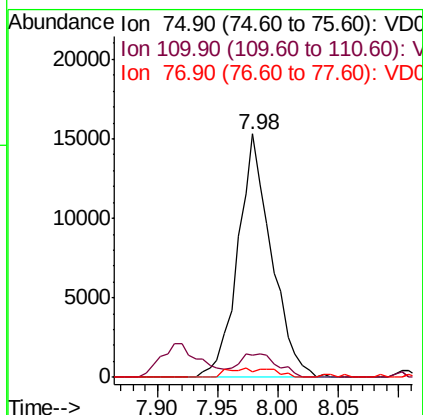
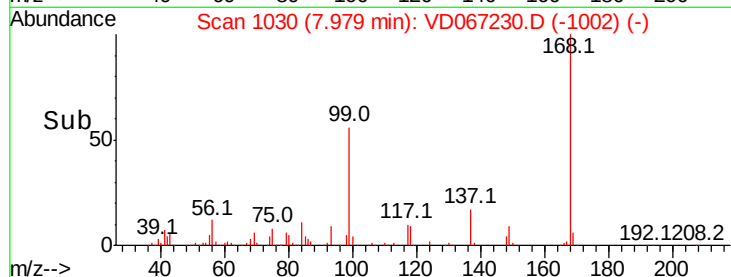
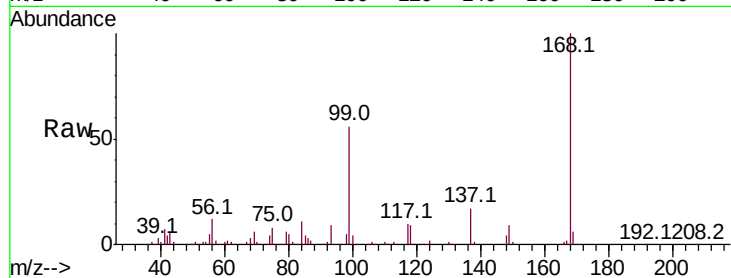
Tot Ion: 75 Resp: 29567

Ion Ratio Lower Upper

75 100

110 11.6 18.4 55.0#

77 2.8 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.235 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

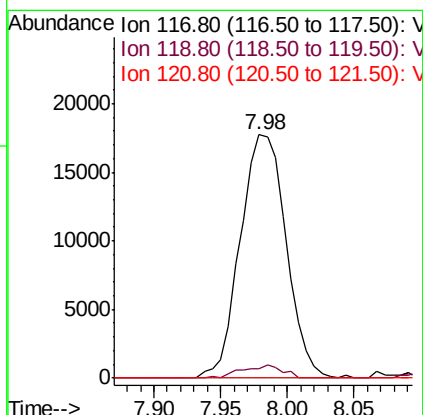
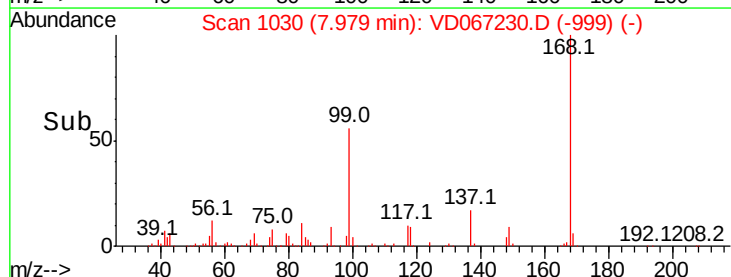
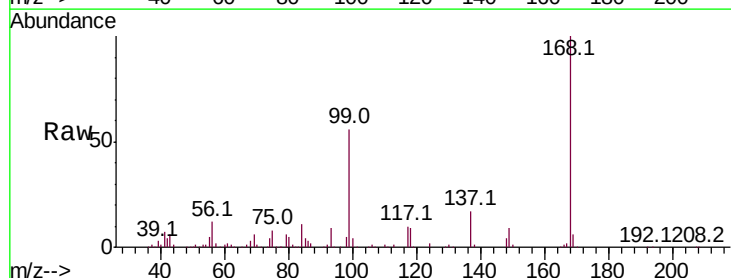
Tgt Ion: 117 Resp: 42219

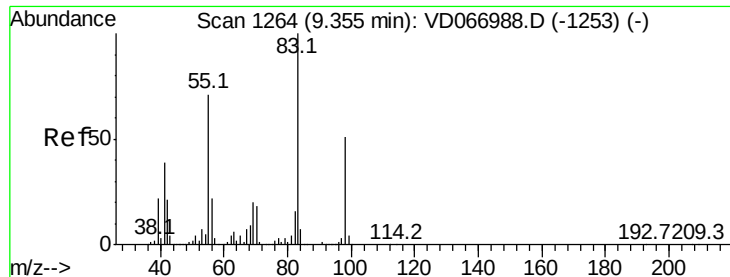
Ion Ratio Lower Upper

117 100

119 4.1 78.7 118.1#

121 0.0 24.2 36.2#

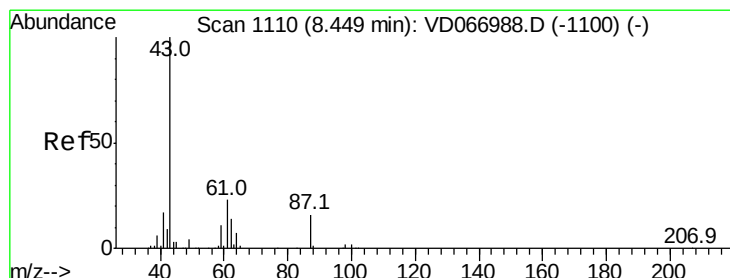
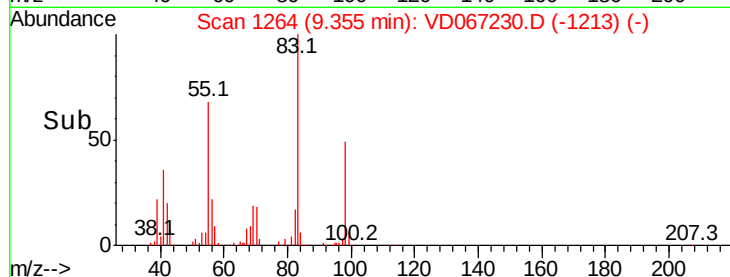
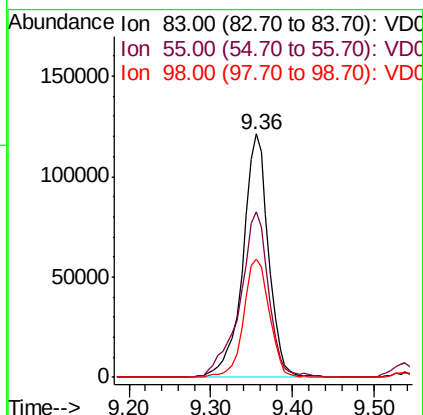
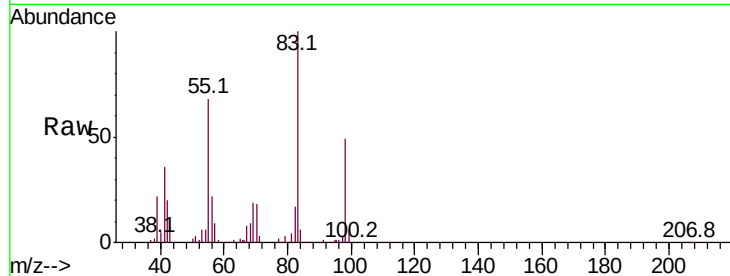




#39
Methylvlcyclohexane
Concen: 40.032 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD067230.D
Acq: 12 Oct 2020 13:30

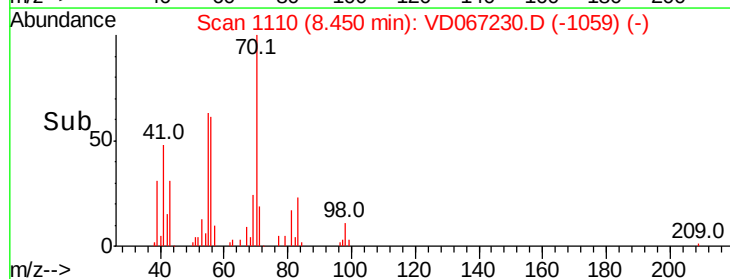
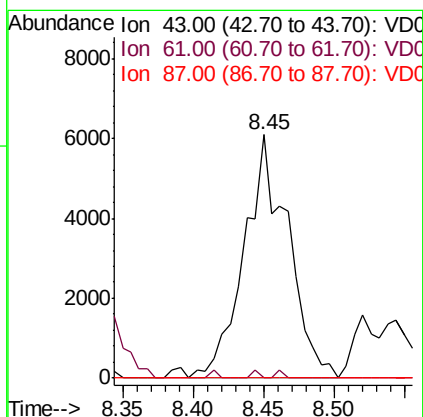
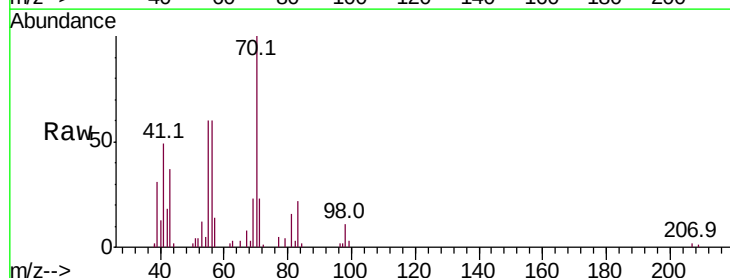
Instrument :
MSVOA_D
ClientSampleId :
STOCK-PILE

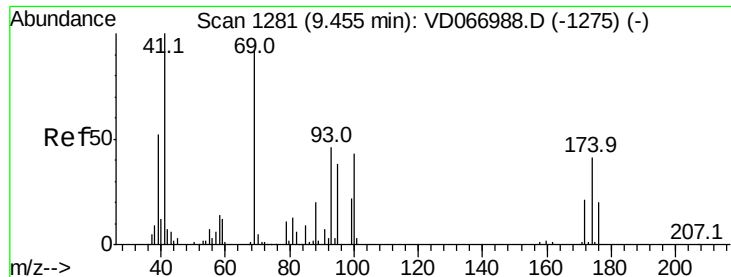
Tot Ion: 83 Resp: 264860
Ion Ratio Lower Upper
83 100
55 68.1 57.1 85.7
98 48.7 40.9 61.3



#43
Isopropyl Acetate
Concen: 3.317 ug/l
RT: 8.45 min Scan# 1110
Delta R.T. 0.00 min
Lab File: VD067230.D
Acq: 12 Oct 2020 13:30

Tgt Ion: 43 Resp: 13246
Ion Ratio Lower Upper
43 100
61 0.0 27.1 40.7#
87 0.0 12.3 18.5#

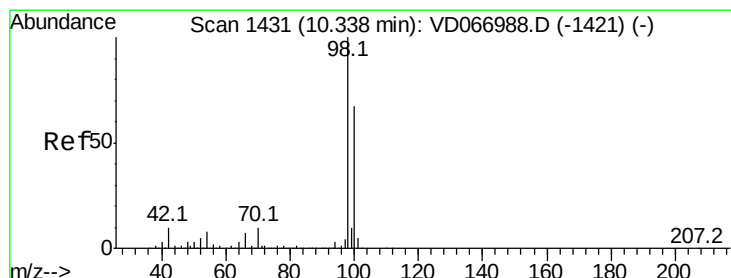
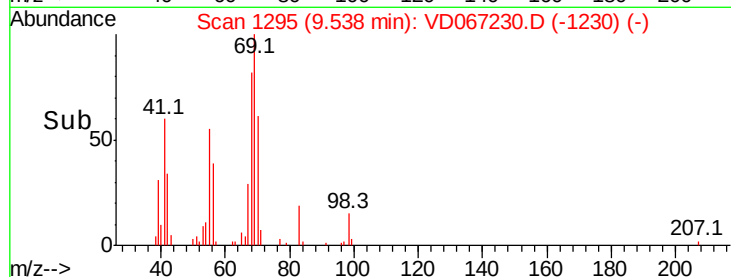
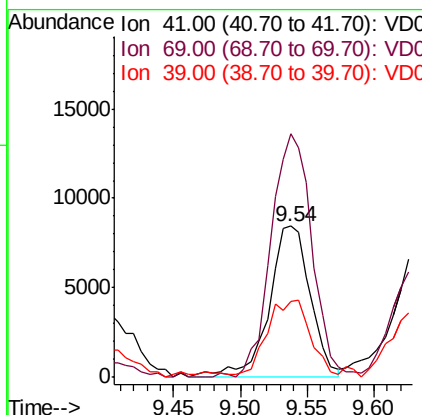
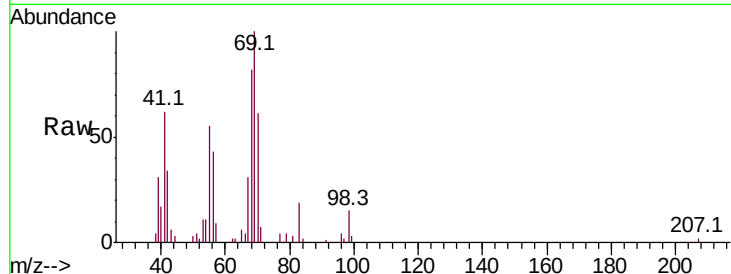




#48
Methvl methacrylate
Concen: 8.921 ug/l
RT: 9.54 min Scan# 1295
Delta R.T. 0.08 min
Lab File: VD067230.D
Acq: 12 Oct 2020 13:30

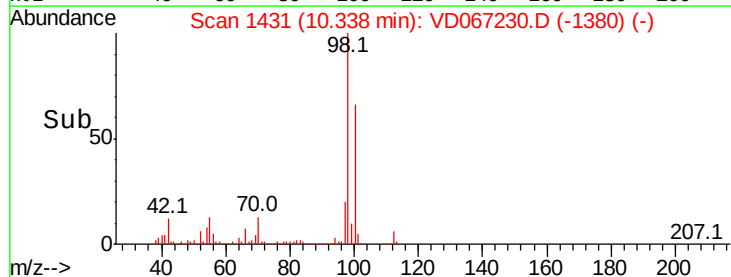
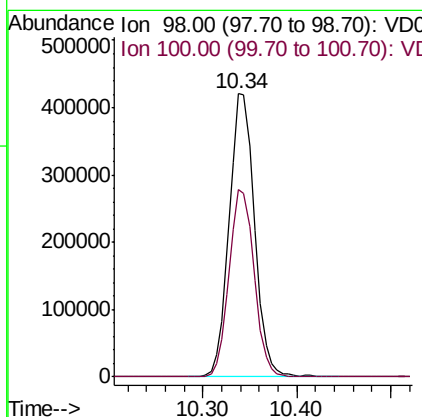
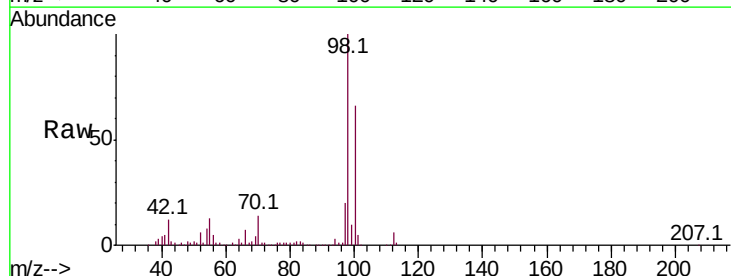
Instrument :
MSVOA_D
ClientSampleId :
STOCK-PILE

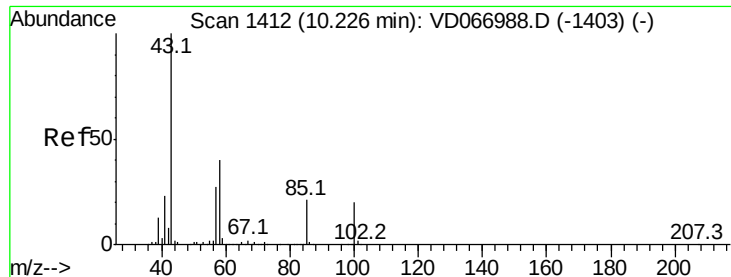
Tot Ion: 41 Resp: 18254
Ion Ratio Lower Upper
41 100
69 159.8 68.5 102.7#
39 50.4 40.2 60.2



#50
Toluene-d8
Concen: 49.283 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD067230.D
Acq: 12 Oct 2020 13:30

Tgt Ion: 98 Resp: 789333
Ion Ratio Lower Upper
98 100
100 65.8 52.8 79.2

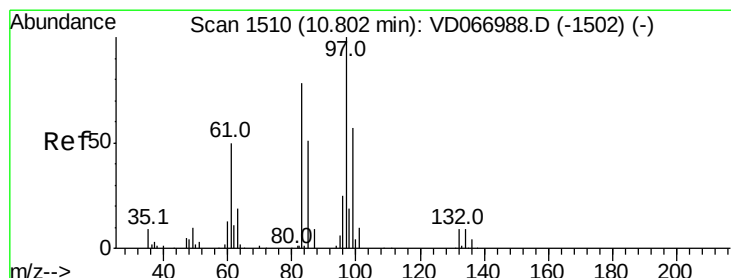
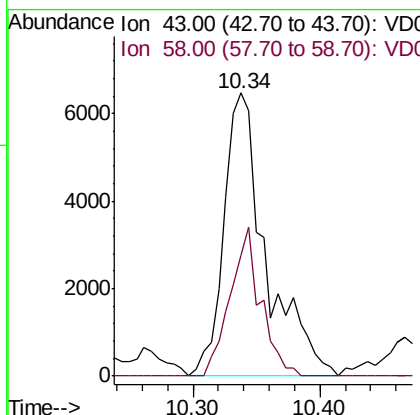
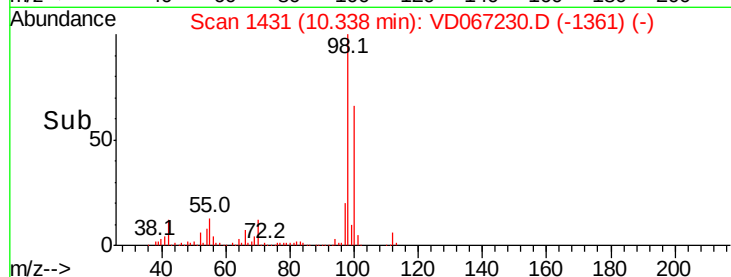
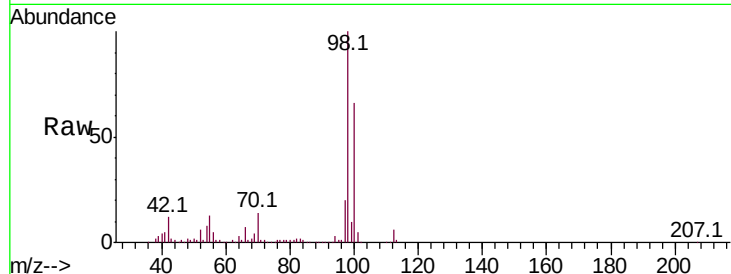




#51
 4-Methyl-2-Pentanone
 Concen: 7.460 ug/l
 RT: 10.34 min Scan# 1431
 Delta R.T. 0.11 min
 Lab File: VD067230.D
 Acq: 12 Oct 2020 13:30

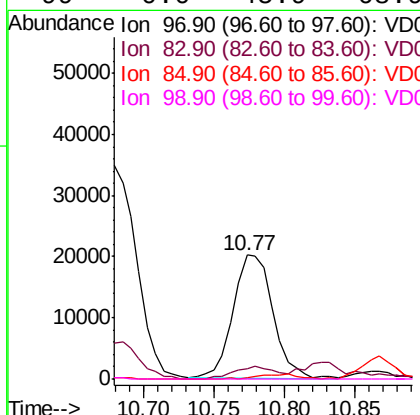
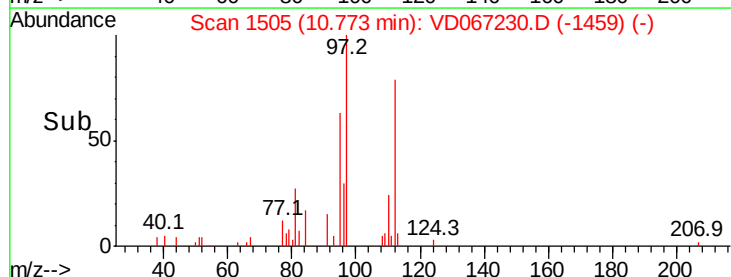
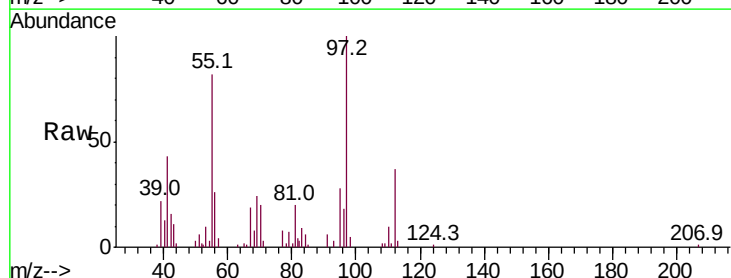
Instrument :
 MSVOA_D
 ClientSampleId :
 STOCK-PILE

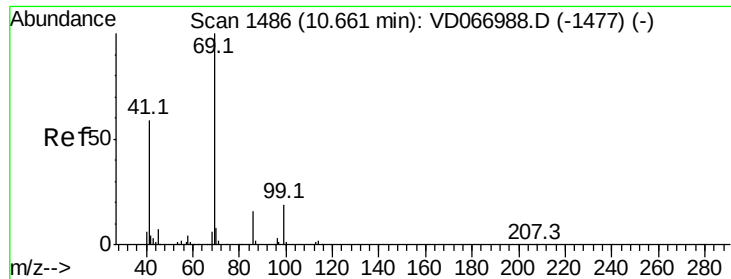
Tot Ion: 43 Resp: 14841
 Ion Ratio Lower Upper
 43 100
 58 38.2 33.8 50.8



#55
 1,1,2-Trichloroethane
 Concen: 12.208 ug/l
 RT: 10.77 min Scan# 1505
 Delta R.T. -0.03 min
 Lab File: VD067230.D
 Acq: 12 Oct 2020 13:30

Tgt Ion: 97 Resp: 39840
 Ion Ratio Lower Upper
 97 100
 83 8.9 62.4 93.6#
 85 1.1 41.0 61.4#
 99 0.0 45.9 68.9#





#56

Ethyl methacrylate

Concen: 5.351 ug/l

RT: 10.68 min Scan# 1490

Delta R.T. 0.02 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

STOCK-PILE

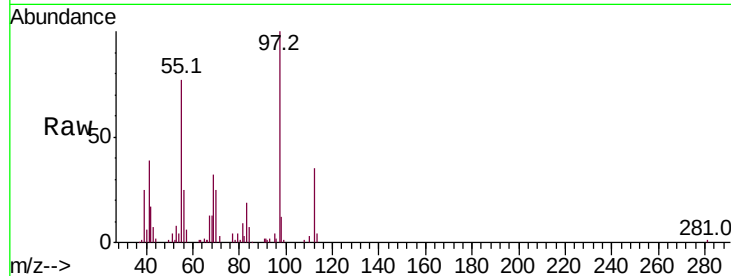
Tot Ion: 69 Resp: 18029

Ion Ratio Lower Upper

69 100

41 130.8 46.4 69.6#

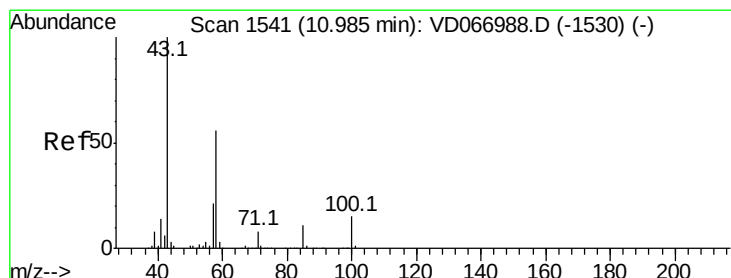
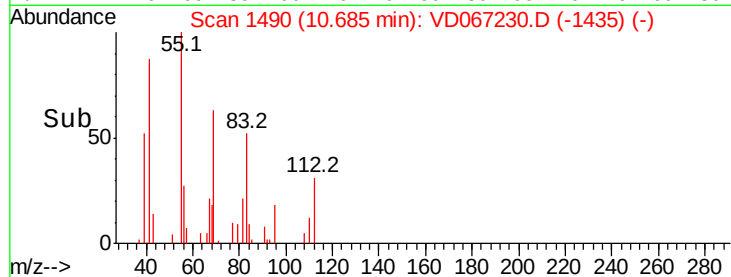
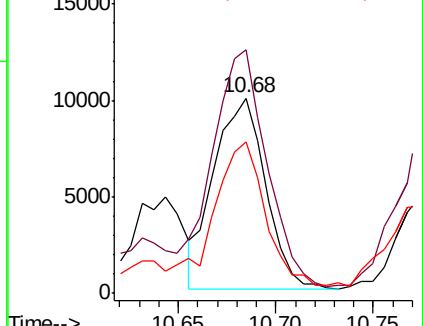
39 78.7 23.8 35.6#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC



#59

2-Hexanone

Concen: 22.926 ug/l

RT: 10.96 min Scan# 1536

Delta R.T. -0.03 min

Lab File: VD067230.D

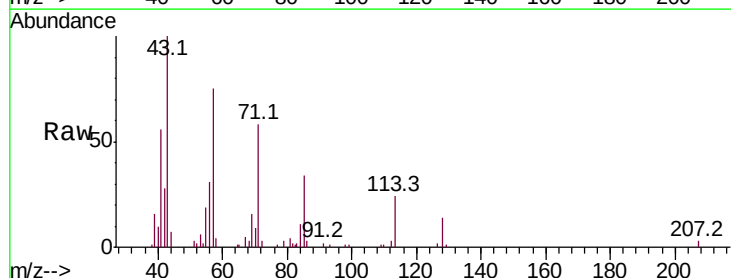
Acq: 12 Oct 2020 13:30

Tgt Ion: 43 Resp: 30440

Ion Ratio Lower Upper

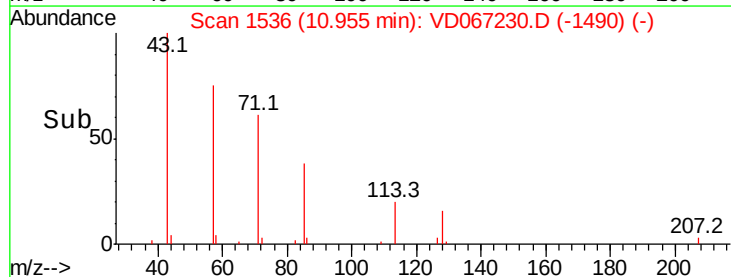
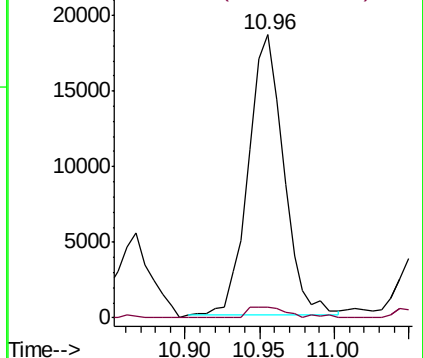
43 100

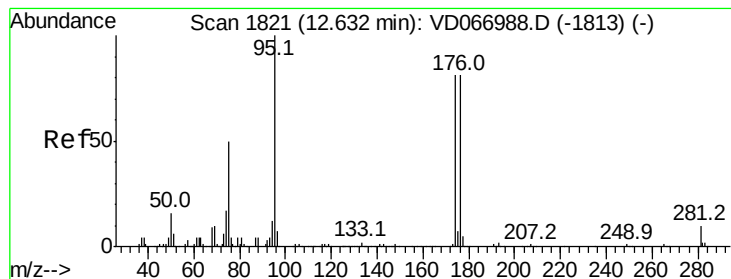
58 3.9 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#62

4-Bromofluorobenzene

Concen: 52.505 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

STOCK-PILE

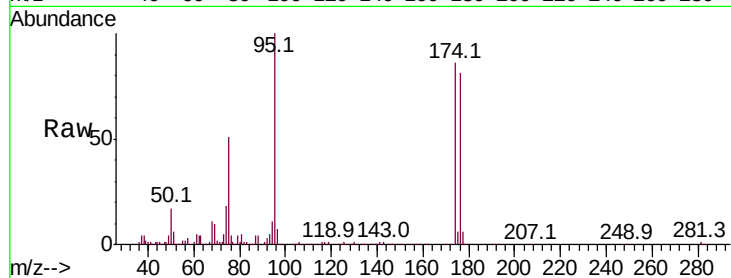
Tot Ion: 95 Resp: 285477

Ion Ratio Lower Upper

95 100

174 86.5 0.0 167.6

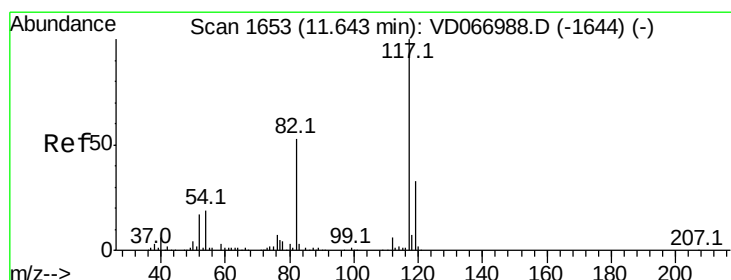
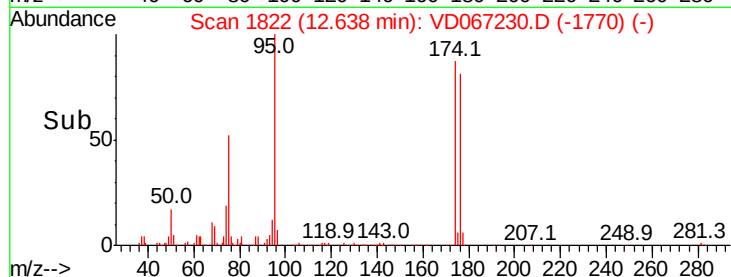
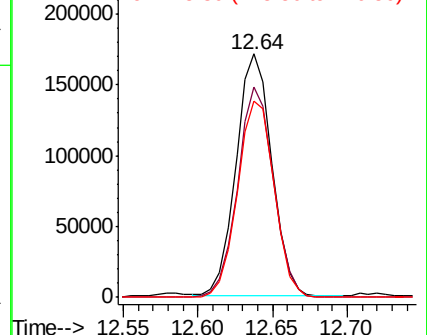
176 82.8 0.0 162.4



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. 0.01 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

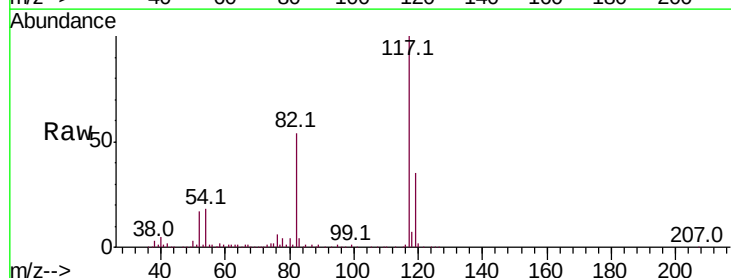
Tgt Ion: 117 Resp: 626052

Ion Ratio Lower Upper

117 100

82 53.8 42.6 63.8

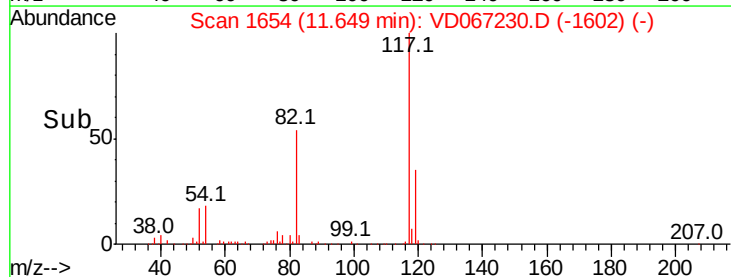
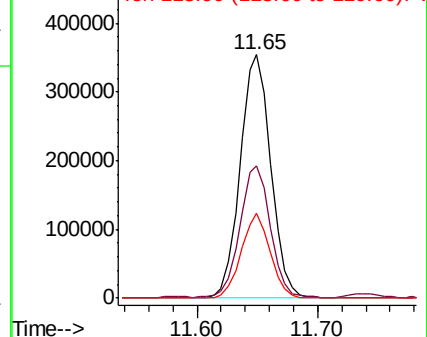
119 34.8 26.3 39.5

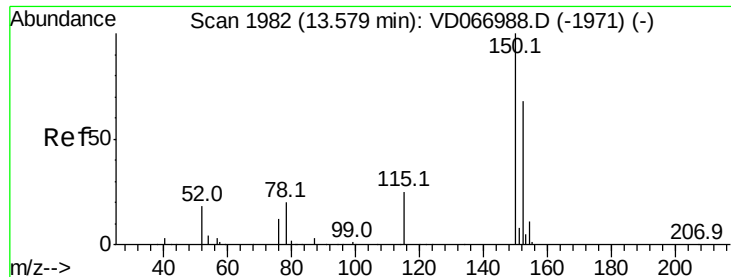


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

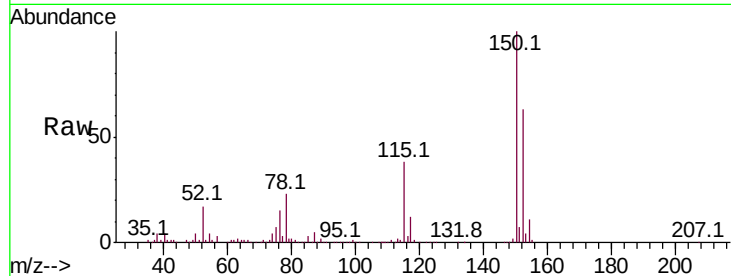




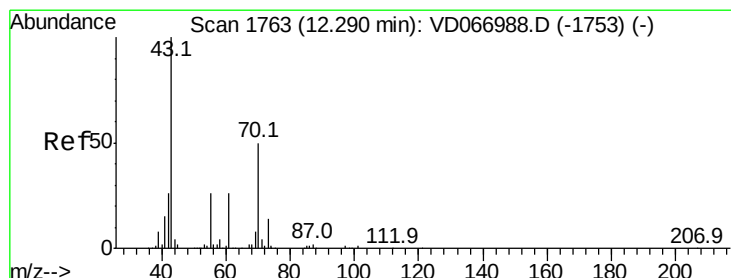
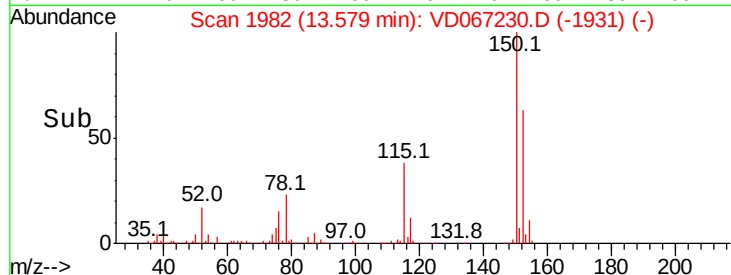
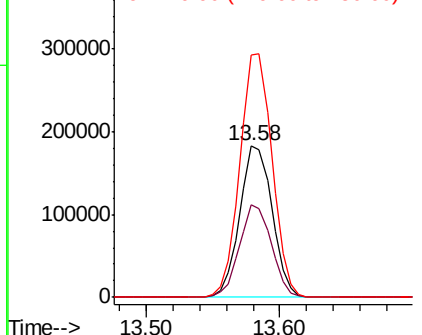
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.58 min Scan# 1982
 Delta R.T. 0.00 min
 Lab File: VD067230.D
 Acq: 12 Oct 2020 13:30

Instrument :
 MSVOA_D
 ClientSampleId :
 STOCK-PILE

Tot Ion:152 Resp: 307207
 Ion Ratio Lower Upper
 152 100
 115 60.5 29.6 88.8
 150 160.2 0.0 344.8

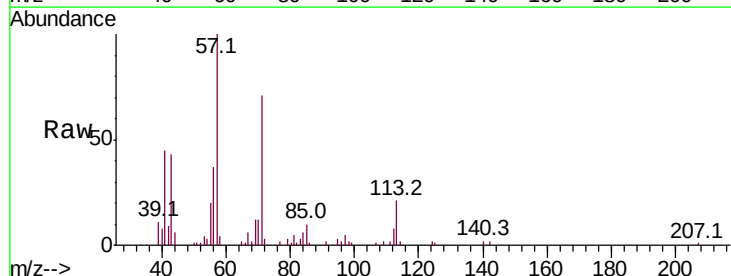


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

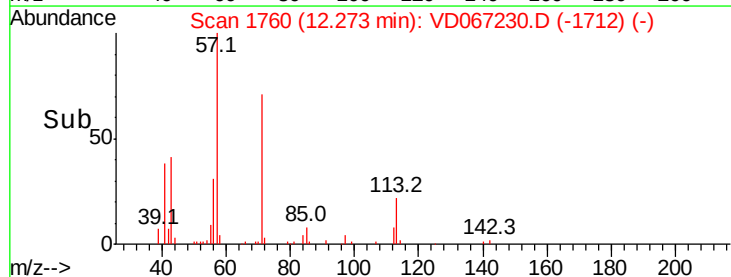
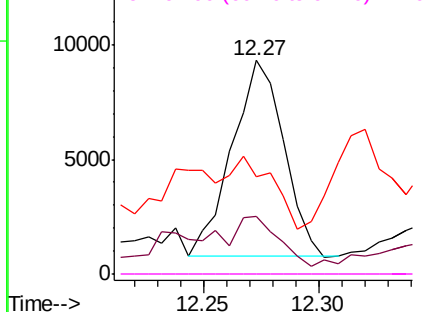


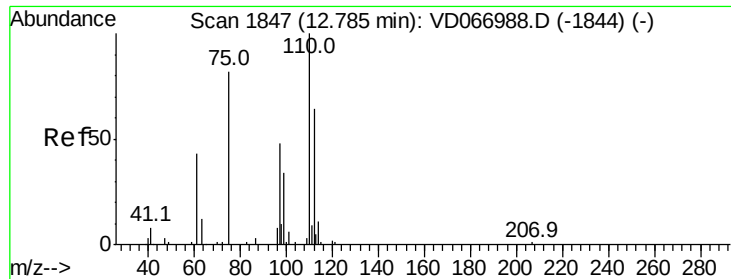
#74
 N-ethyl acetate
 Concen: 3.562 ug/l
 RT: 12.27 min Scan# 1760
 Delta R.T. -0.02 min
 Lab File: VD067230.D
 Acq: 12 Oct 2020 13:30

Tgt Ion: 43 Resp: 13358
 Ion Ratio Lower Upper
 43 100
 70 19.3 38.2 57.2#
 55 0.0 22.4 33.6#
 61 0.0 20.6 31.0#



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





#76

1,2,3-Trichloropropane

Concen: 55.024 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

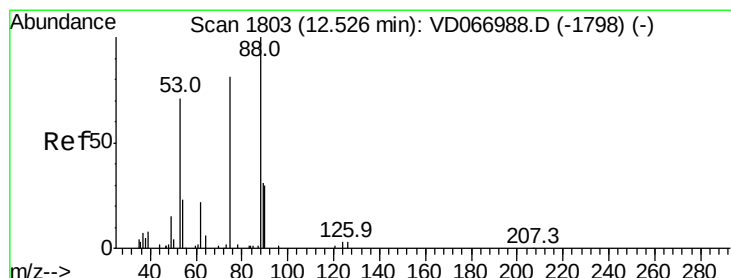
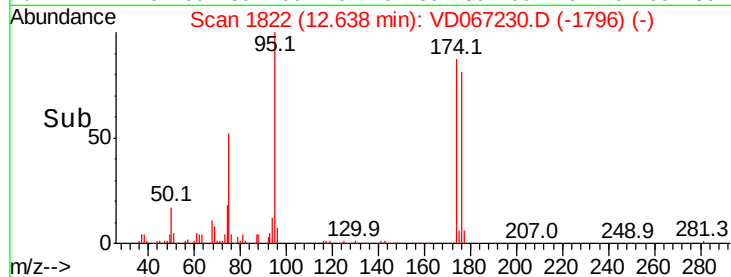
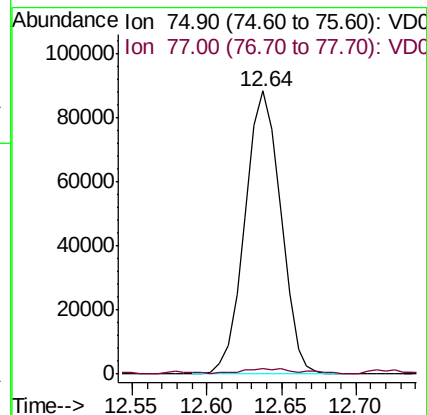
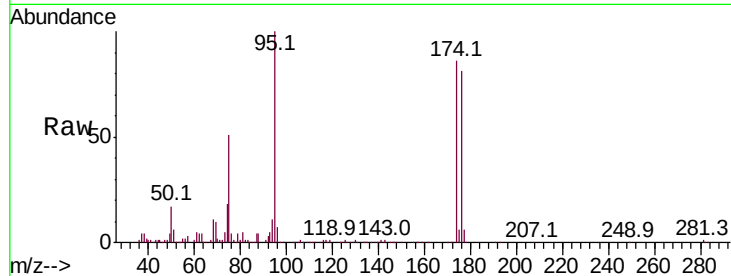
STOCK-PILE

Tot Ion: 75 Resp: 147238

Ion Ratio Lower Upper

75 100

77 2.0 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 137.182 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

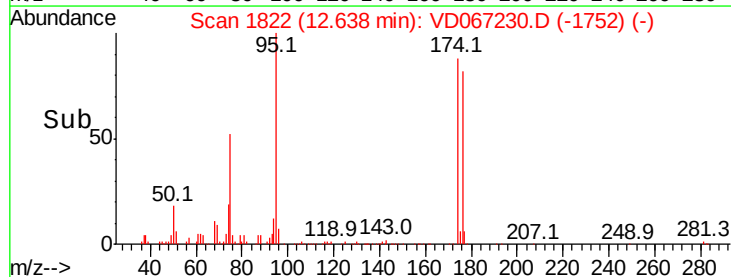
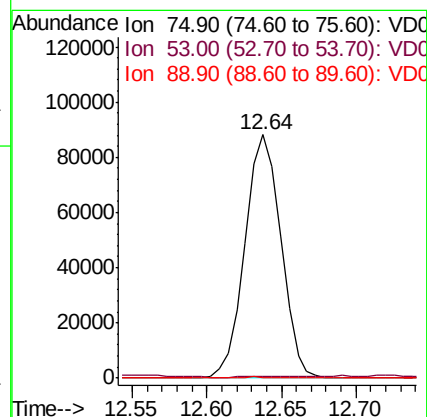
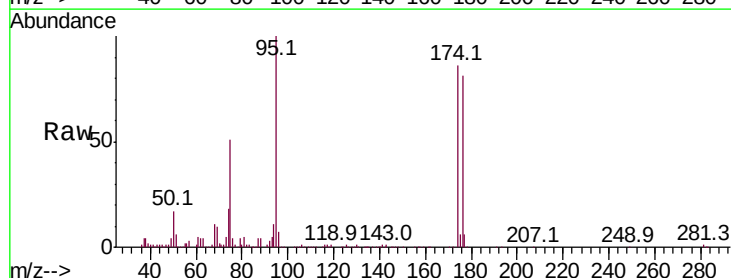
Tgt Ion: 75 Resp: 147238

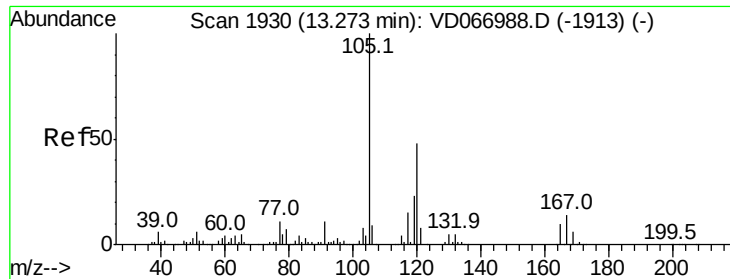
Ion Ratio Lower Upper

75 100

53 0.6 73.8 110.6#

89 0.1 38.9 58.3#





#84

1,2,4-Trimethylbenzene

Concen: 2.491 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD067230.D

Acq: 12 Oct 2020 13:30

Instrument :

MSVOA_D

ClientSampleId :

STOCK-PILE

Tot Ion:105 Resp: 43808

Ion Ratio Lower Upper

105 100

120 50.5 23.3 69.8

