

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100220\
 Data File : VD067066.D
 Acq On : 03 Oct 2020 06:34
 Operator : VA/SY
 Sample : L4228-01
 Misc : 8.13G/5.00ml/MSVOA D/SOIL
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PY-BIN-4

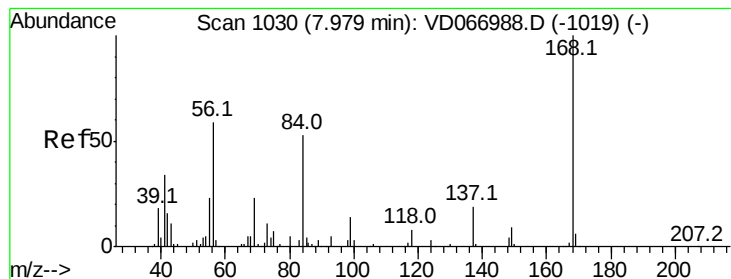
Quant Time: Oct 03 07:50:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 15:19:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	503120	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	837008	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	703529	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	246290	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	244795	50.51	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.02%	
35) Dibromofluoromethane	7.91	113	267370	48.79	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.58%	
50) Toluene-d8	10.34	98	956543	47.91	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.82%	
62) 4-Bromofluorobenzene	12.64	95	279651	41.26	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	82.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.98	85	80	Below Cal	#	40
5) Bromomethane	2.80	94	414	Below Cal	#	3
8) Diethyl Ether	3.71	74	2734	1.235	ug/l	92
11) Tert butyl alcohol	5.22	59	464	Below Cal	#	72
16) Acetone	4.17	43	870	1.176	ug/l	92
20) Methylene Chloride	4.97	84	12469	Below Cal		98
26) 2,2-Dichloropropane	7.21	77	293	Below Cal	#	53
31) Cyclohexane	7.97	56	9157	1.258	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	37213	4.770	ug/l #	49
38) Carbon Tetrachloride	7.98	117	50250	5.953	ug/l #	15
51) 4-Methyl-2-Pentanone	10.34	43	3822	1.541	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	134710	62.794	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	134710	156.553	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067066.D

Acq: 03 Oct 2020 06:34

Instrument :

MSVOA_D

ClientSampleId :

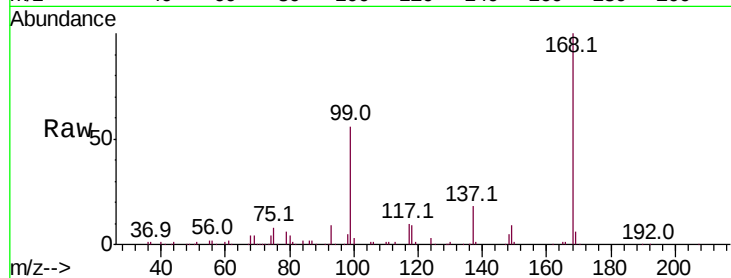
PY-BIN-4

Tot Ion:168 Resp: 503120

Ion Ratio Lower Upper

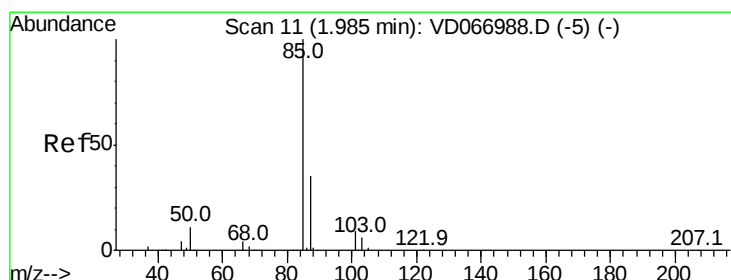
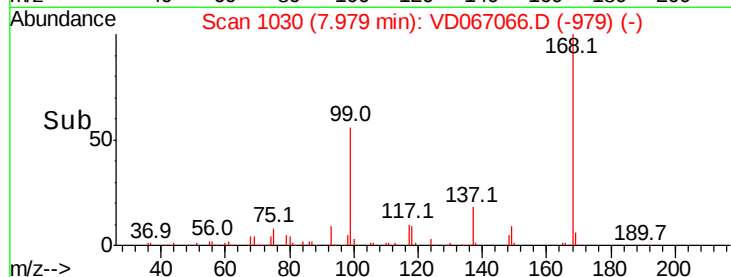
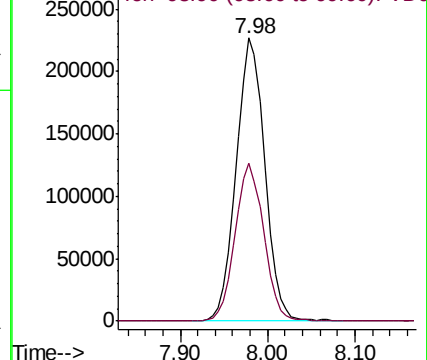
168 100

99 55.8 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.98 min Scan# 10

Delta R.T. -0.01 min

Lab File: VD067066.D

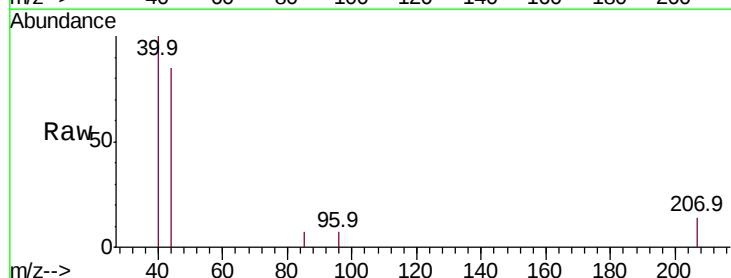
Acq: 03 Oct 2020 06:34

Tgt Ion: 85 Resp: 80

Ion Ratio Lower Upper

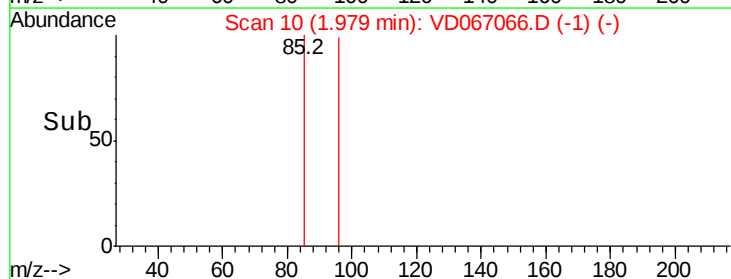
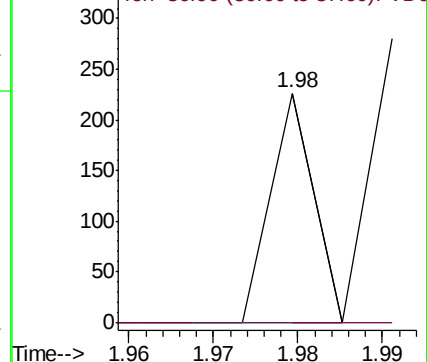
85 100

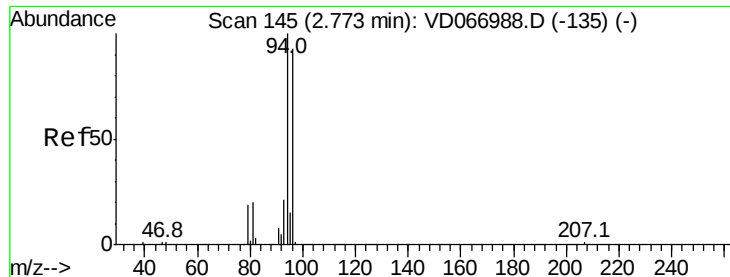
87 0.0 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.80 min Scan# 149

Delta R.T. 0.02 min

Lab File: VD067066.D

Acq: 03 Oct 2020 06:34

Instrument :

MSVOA_D

ClientSampleId :

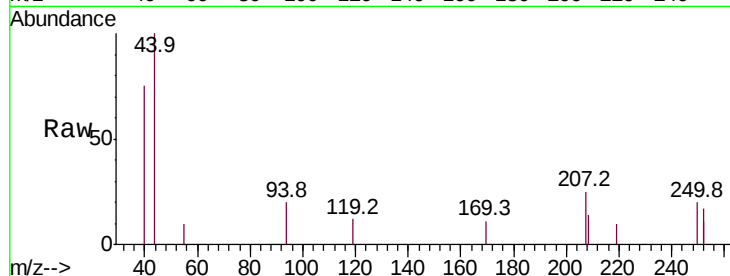
PY-BIN-4

Tot Ion: 94 Resp: 414

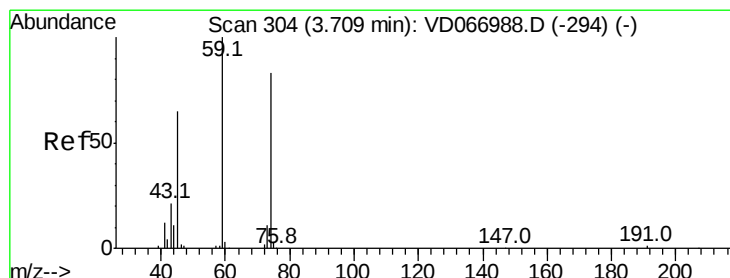
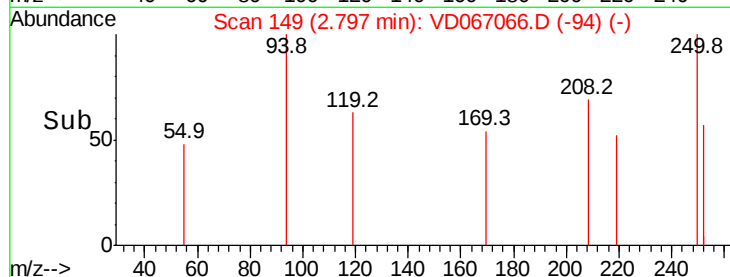
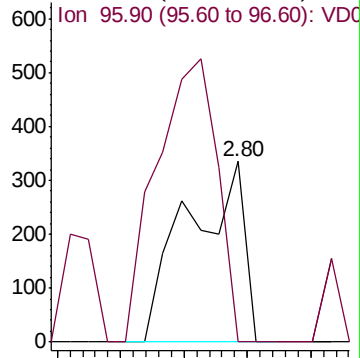
Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC



#8

Diethyl Ether

Concen: 1.235 ug/l

RT: 3.71 min Scan# 304

Delta R.T. 0.00 min

Lab File: VD067066.D

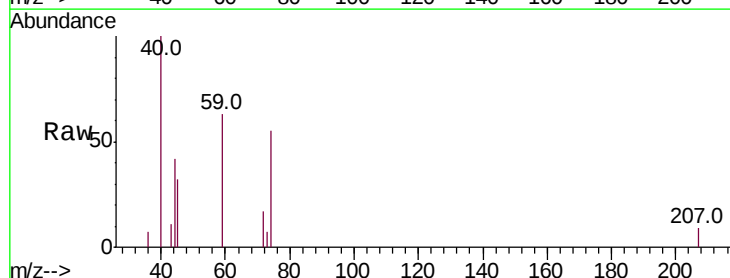
Acq: 03 Oct 2020 06:34

Tgt Ion: 74 Resp: 2734

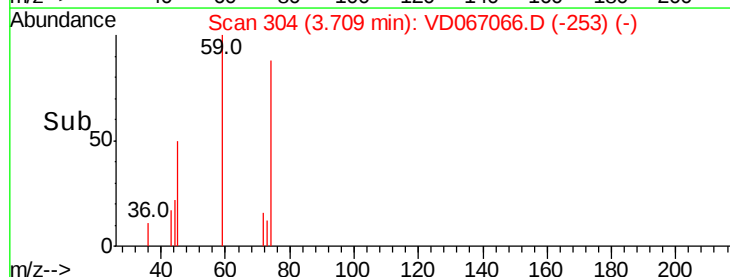
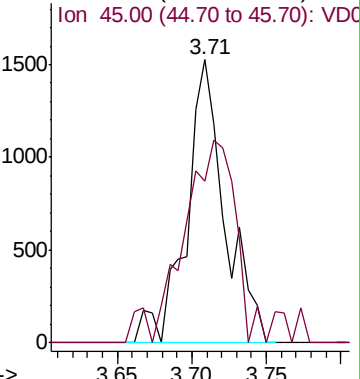
Ion Ratio Lower Upper

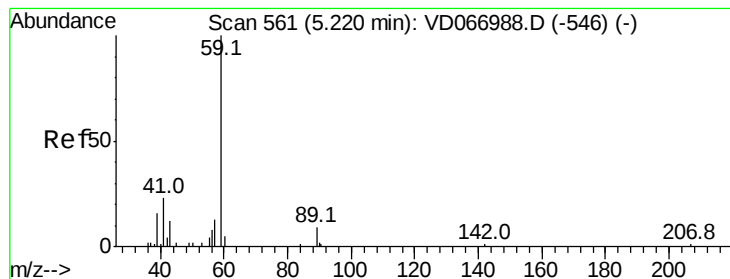
74 100

45 93.6 43.1 129.3



Abundance Ion 74.00 (73.70 to 74.70): VDC



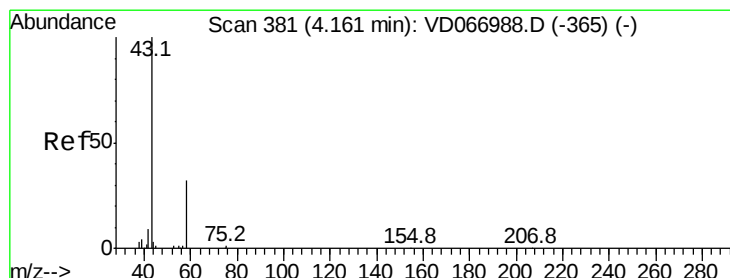
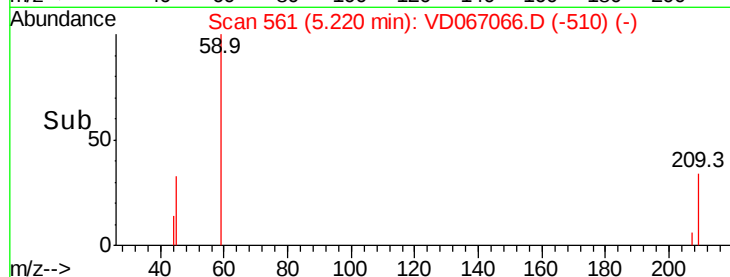
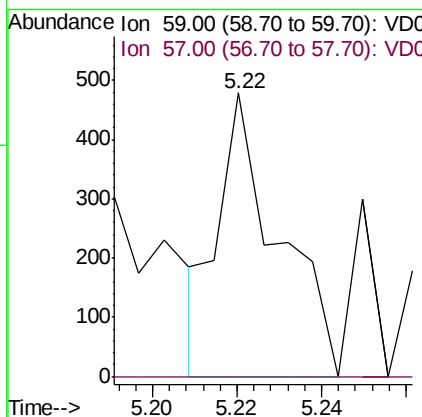
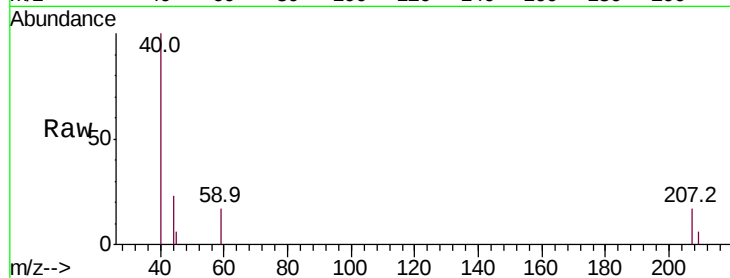


#11

Tert butyl alcohol
Concen: Below Cal
RT: 5.22 min Scan# 561
Delta R.T. 0.00 min
Lab File: VD067066.D
Acq: 03 Oct 2020 06:34

Instrument :
MSVOA_D
ClientSampleId :
PY-BIN-4

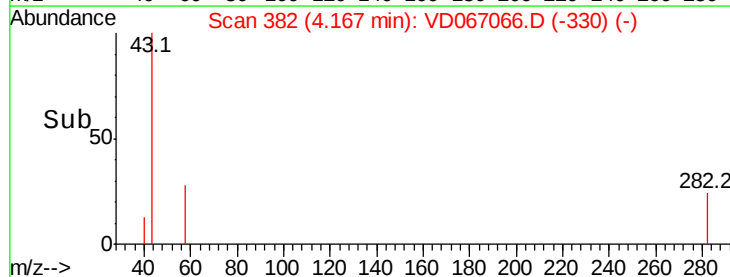
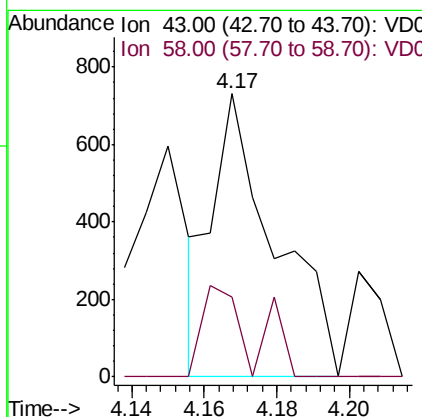
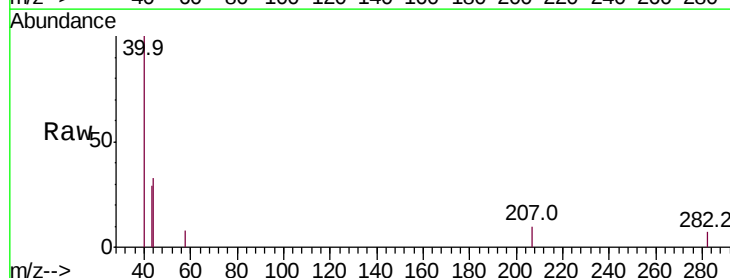
Tot Ion: 59 Resp: 464
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

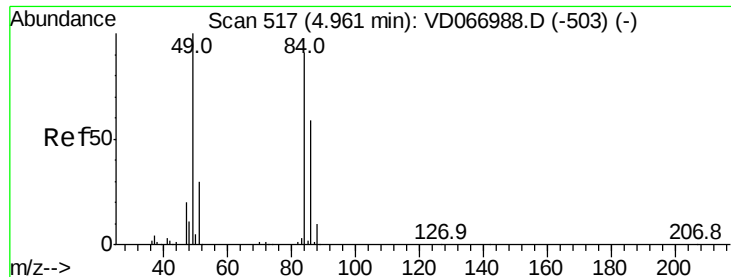


#16

Acetone
Concen: 1.176 ug/l
RT: 4.17 min Scan# 382
Delta R.T. 0.01 min
Lab File: VD067066.D
Acq: 03 Oct 2020 06:34

Tgt Ion: 43 Resp: 870
Ion Ratio Lower Upper
43 100
58 28.2 25.9 38.9

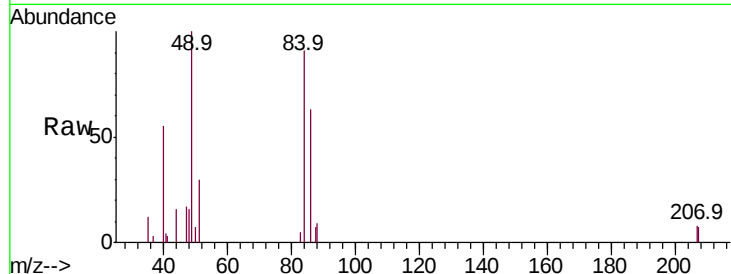




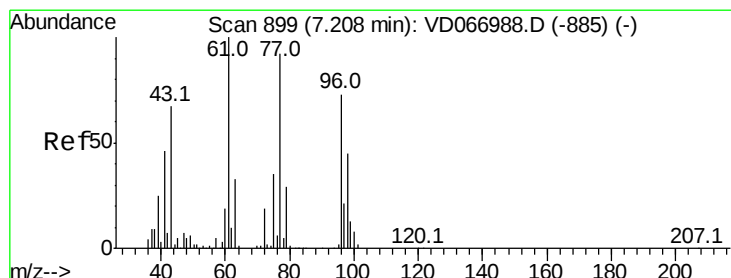
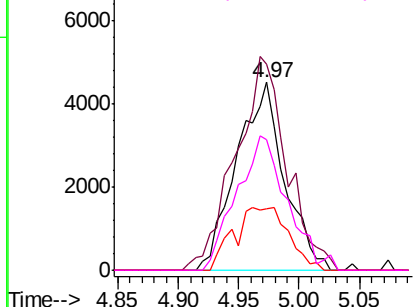
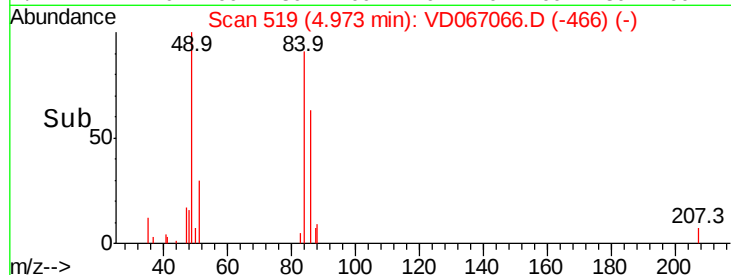
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD067066.D
Acq: 03 Oct 2020 06:34

Instrument :
MSVOA_D
ClientSampleId :
PY-BIN-4

Tot Ion: 84 Resp: 12469
Ion Ratio Lower Upper
84 100
49 109.9 88.2 132.2
51 33.0 26.6 39.8
86 69.4 52.1 78.1

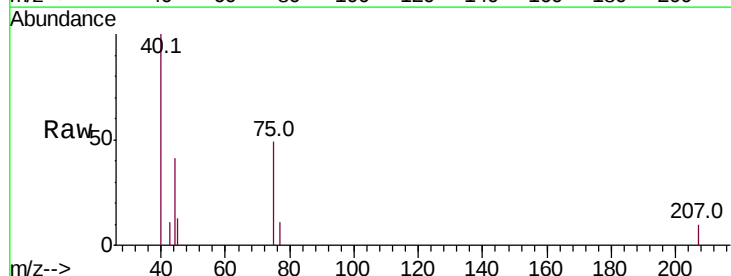


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

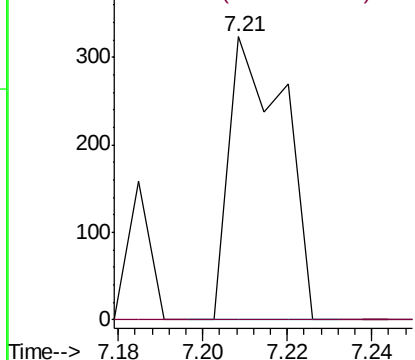
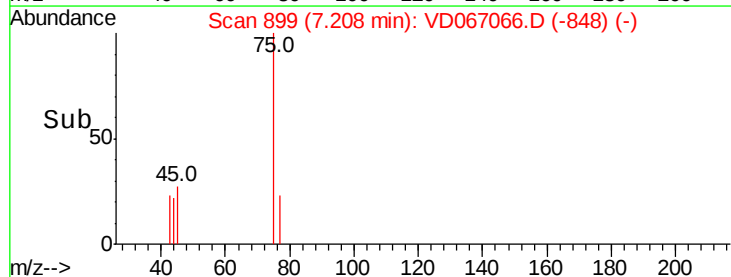


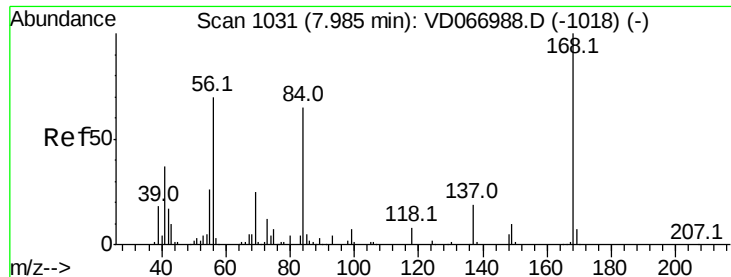
#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.21 min Scan# 899
Delta R.T. 0.00 min
Lab File: VD067066.D
Acq: 03 Oct 2020 06:34

Tgt Ion: 77 Resp: 293
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

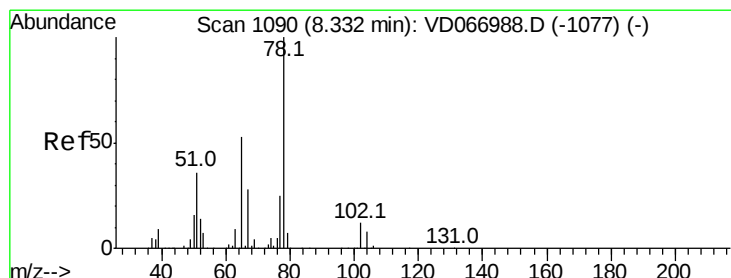
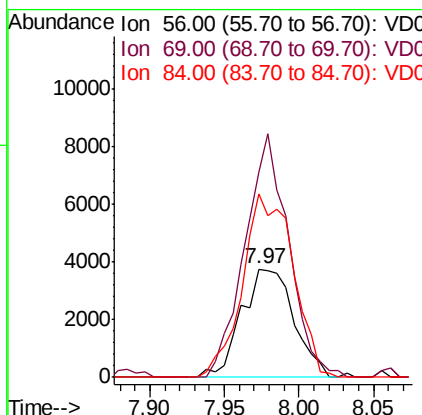
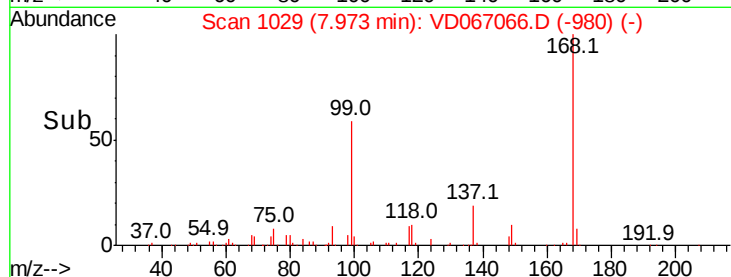
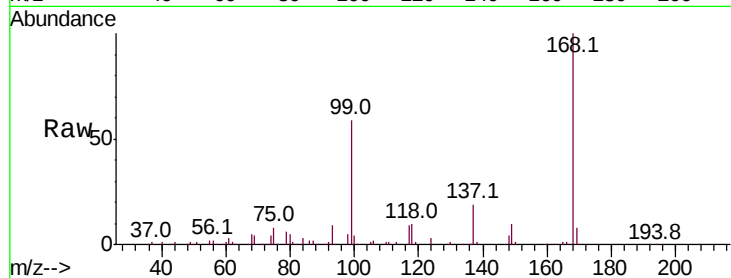




#31
Cyclohexane
Concen: 1.258 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD067066.D
Acq: 03 Oct 2020 06:34

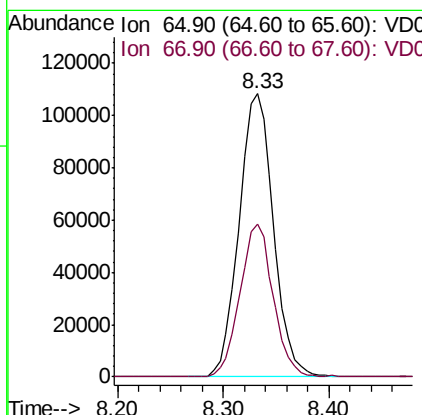
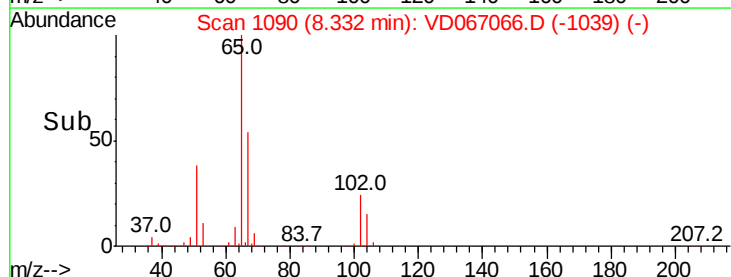
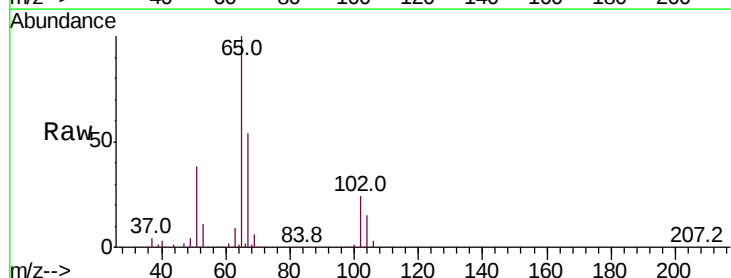
Instrument :
MSVOA_D
ClientSampled :
PY-BIN-4

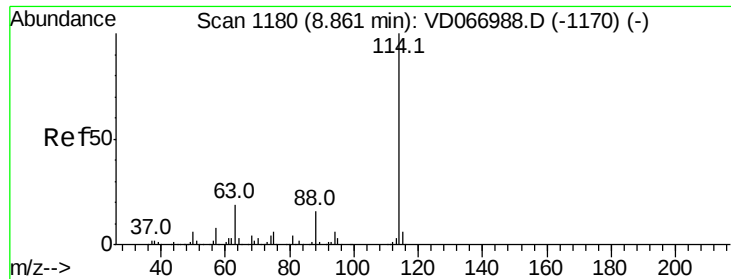
Tot Ion: 56 Resp: 9157
Ion Ratio Lower Upper
56 100
69 190.1 29.0 43.6#
84 169.1 74.2 111.2#



#33
1,2-Dichloroethane-d4
Concen: 50.515 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD067066.D
Acq: 03 Oct 2020 06:34

Tgt Ion: 65 Resp: 244795
Ion Ratio Lower Upper
65 100
67 52.3 0.0 106.8

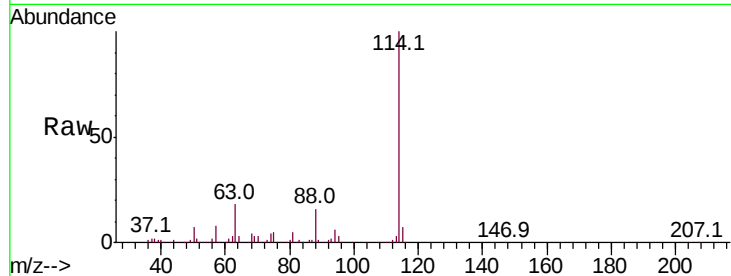




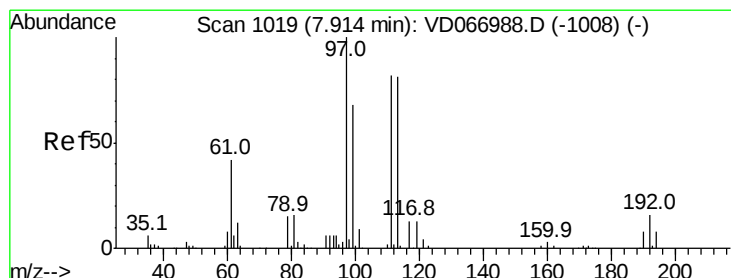
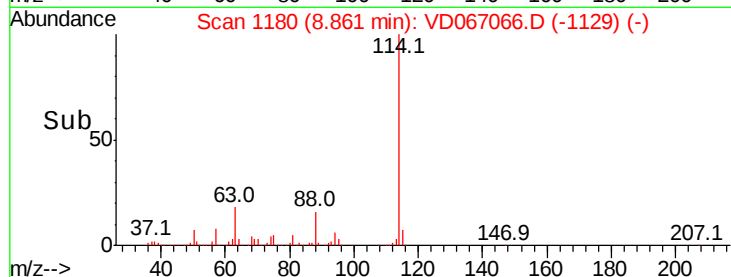
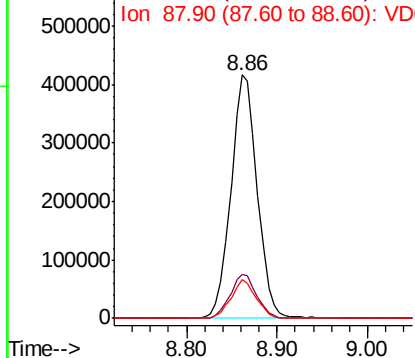
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD067066.D
 Acq: 03 Oct 2020 06:34

Instrument :
 MSVOA_D
 ClientSampled :
 PY-BIN-4

Tot Ion:114 Resp: 837008
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 38.4
 88 16.0 0.0 31.2

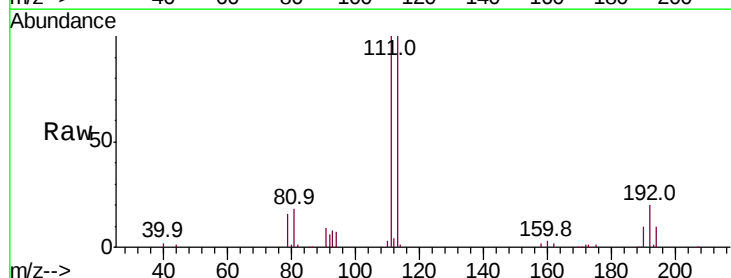


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

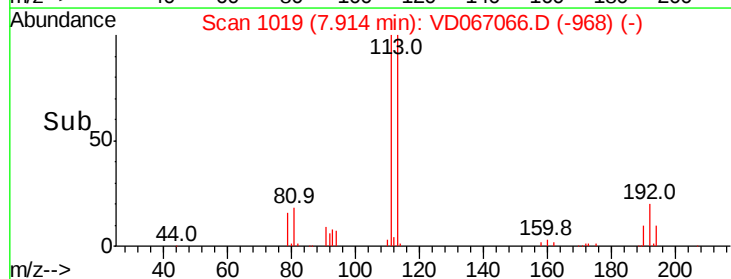
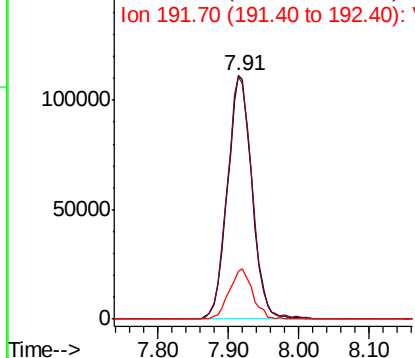


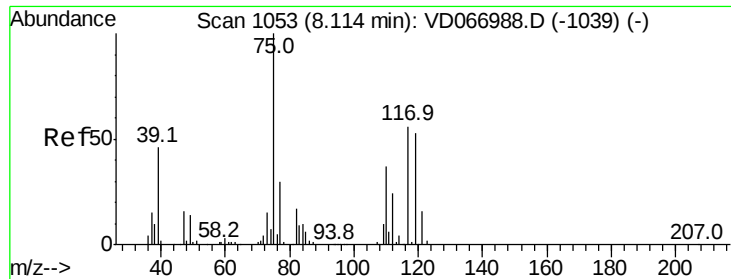
#35
 Dibromofluoromethane
 Concen: 48.793 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. 0.00 min
 Lab File: VD067066.D
 Acq: 03 Oct 2020 06:34

Tgt Ion:113 Resp: 267370
 Ion Ratio Lower Upper
 113 100
 111 101.4 83.0 124.4
 192 19.6 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: 4.770 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067066.D

Acq: 03 Oct 2020 06:34

Instrument :

MSVOA_D

ClientSampleId :

PY-BIN-4

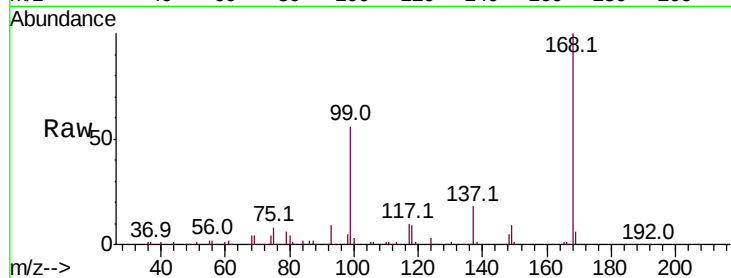
Tot Ion: 75 Resp: 37213

Ion Ratio Lower Upper

75 100

110 8.6 18.4 55.0#

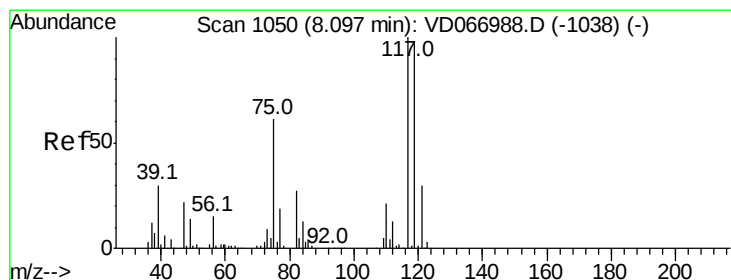
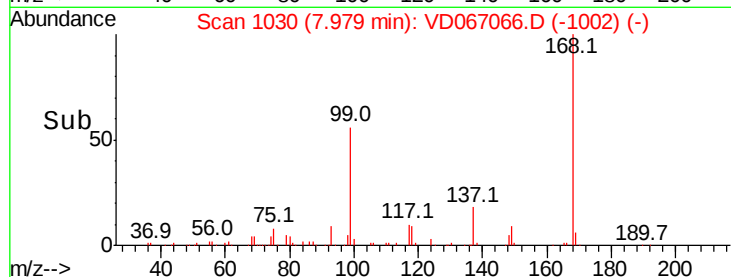
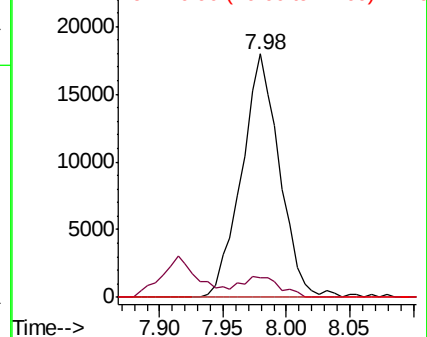
77 0.0 24.8 37.2#



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



#38

Carbon Tetrachloride

Concen: 5.953 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067066.D

Acq: 03 Oct 2020 06:34

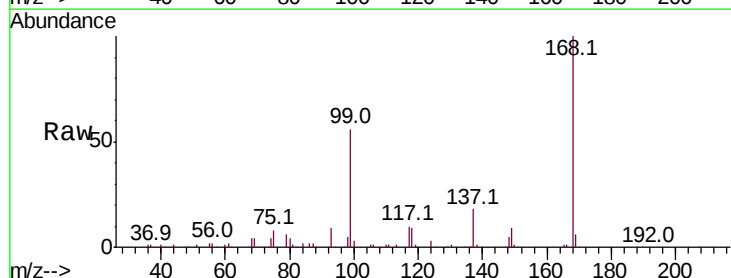
Tgt Ion: 117 Resp: 50250

Ion Ratio Lower Upper

117 100

119 5.5 78.7 118.1#

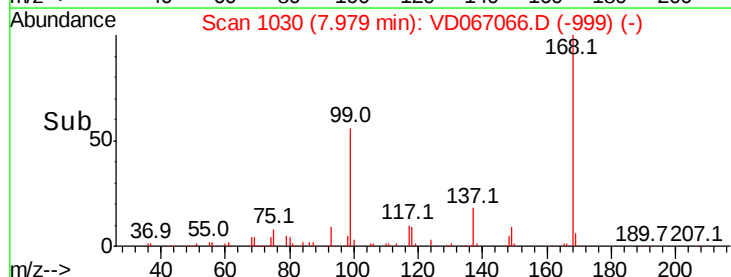
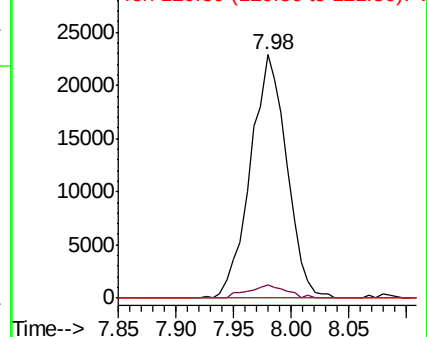
121 0.0 24.2 36.2#

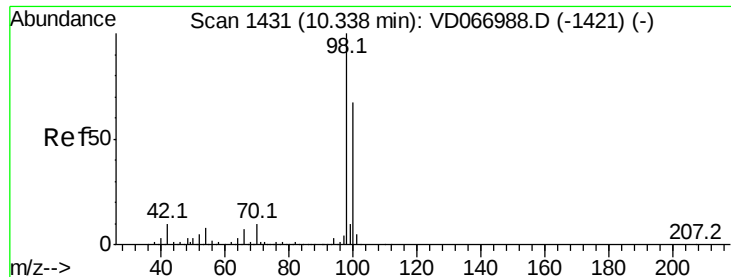


Abundance Ion 116.80 (116.50 to 117.50): VDC

Ion 118.80 (118.50 to 119.50): VDC

Ion 120.80 (120.50 to 121.50): VDC

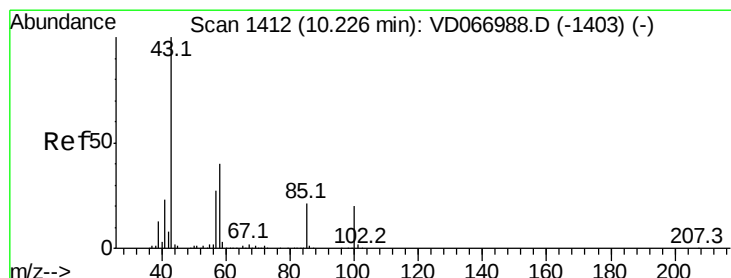
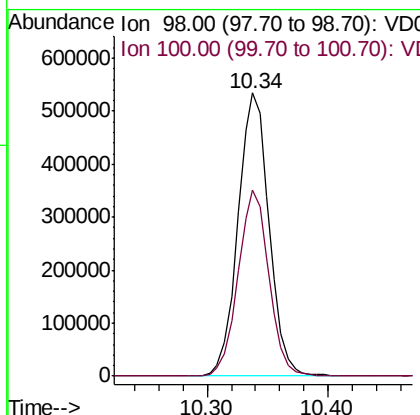
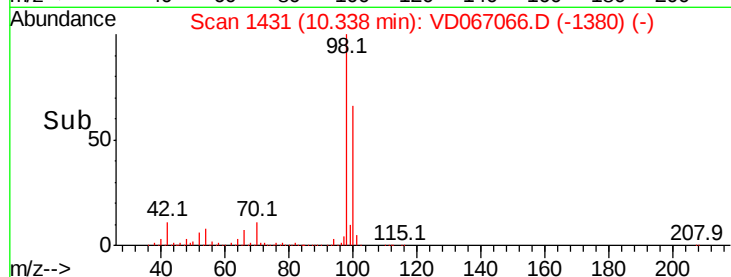
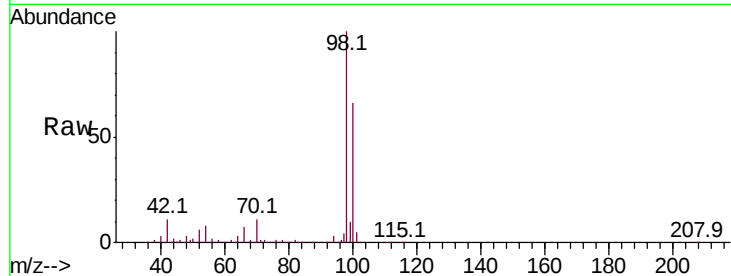




#50
Toluene-d8
Concen: 47.905 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD067066.D
Acq: 03 Oct 2020 06:34

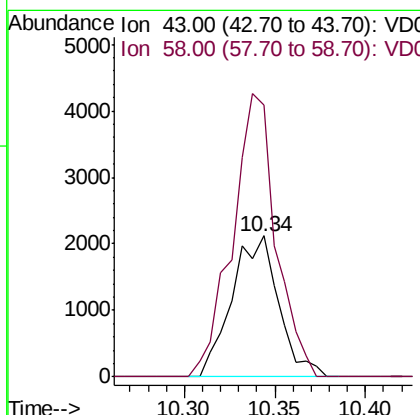
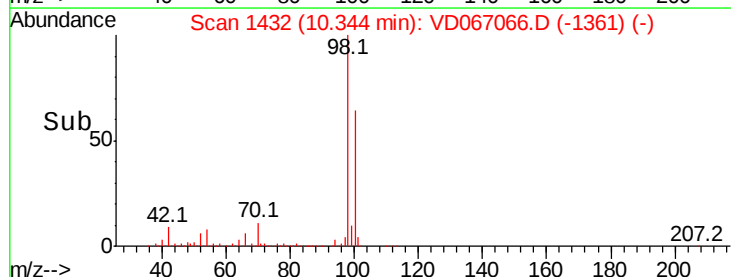
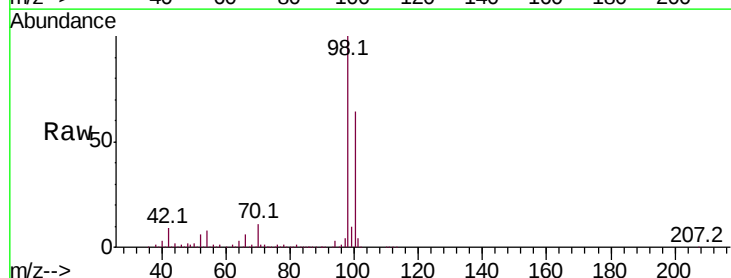
Instrument :
MSVOA_D
ClientSampleId :
PY-BIN-4

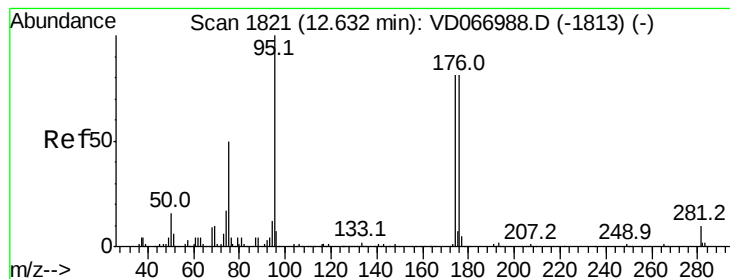
Tot Ion: 98 Resp: 956543
Ion Ratio Lower Upper
98 100
100 65.4 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 1.541 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.12 min
Lab File: VD067066.D
Acq: 03 Oct 2020 06:34

Tgt Ion: 43 Resp: 3822
Ion Ratio Lower Upper
43 100
58 185.5 33.8 50.8#





#62

4-Bromofluorobenzene

Concen: 41.256 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067066.D

Acq: 03 Oct 2020 06:34

Instrument :

MSVOA_D

ClientSampleId :

PY-BIN-4

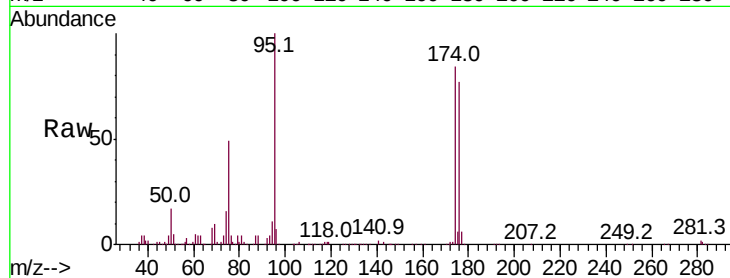
Tot Ion: 95 Resp: 279651

Ion Ratio Lower Upper

95 100

174 82.4 0.0 167.6

176 77.4 0.0 162.4



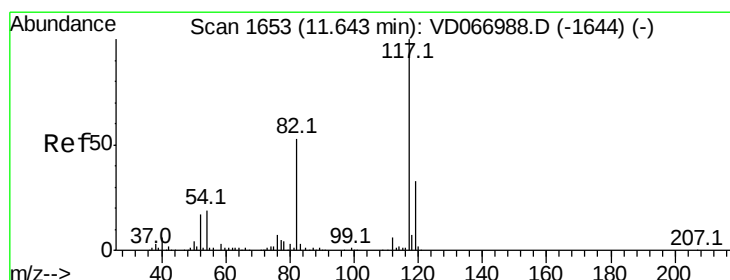
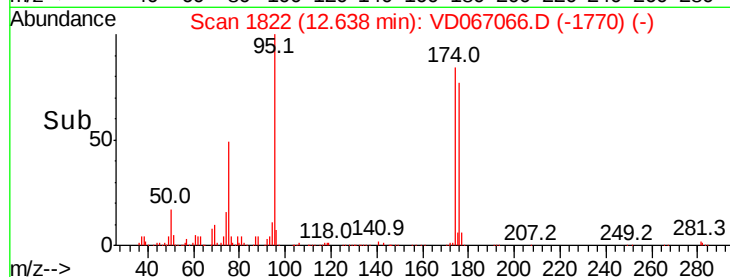
Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.64

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD067066.D

Acq: 03 Oct 2020 06:34

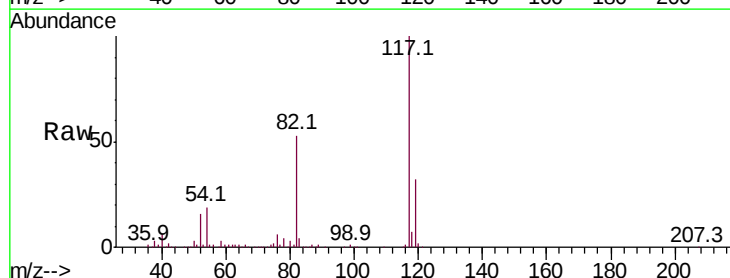
Tgt Ion: 117 Resp: 703529

Ion Ratio Lower Upper

117 100

82 53.4 42.6 63.8

119 31.6 26.3 39.5



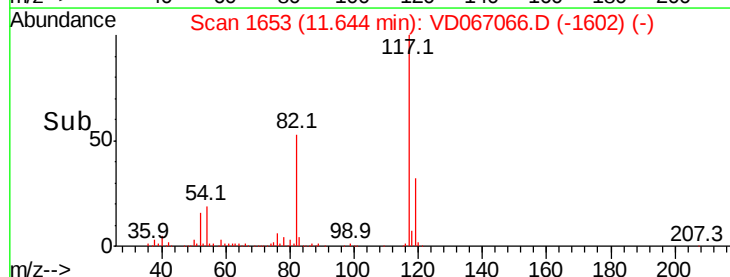
Abundance Ion 116.90 (116.60 to 117.60): V

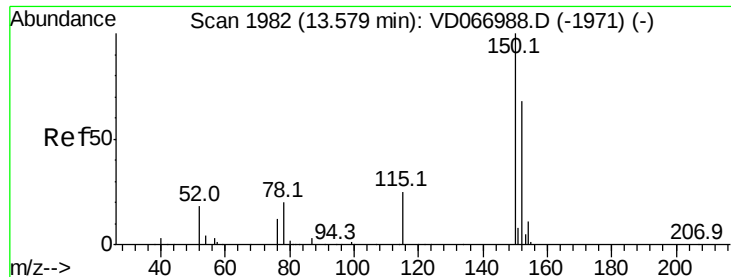
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

11.64

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. 0.00 min

Lab File: VD067066.D

Acq: 03 Oct 2020 06:34

Instrument :

MSVOA_D

ClientSampleId :

PY-BIN-4

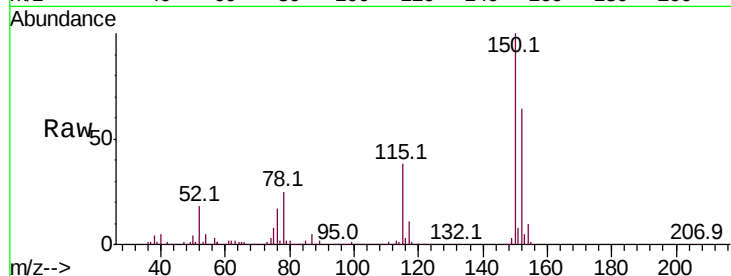
Tot Ion:152 Resp: 246290

Ion Ratio Lower Upper

152 100

115 59.2 29.6 88.8

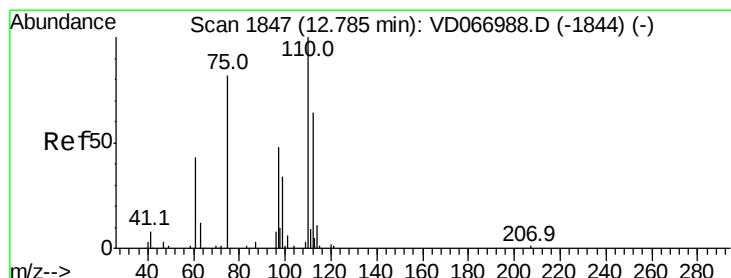
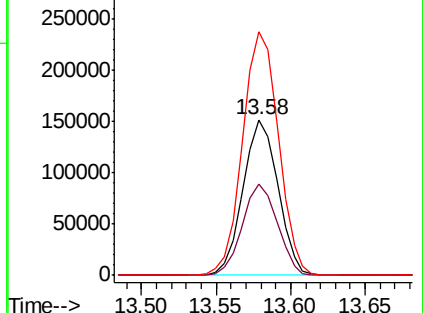
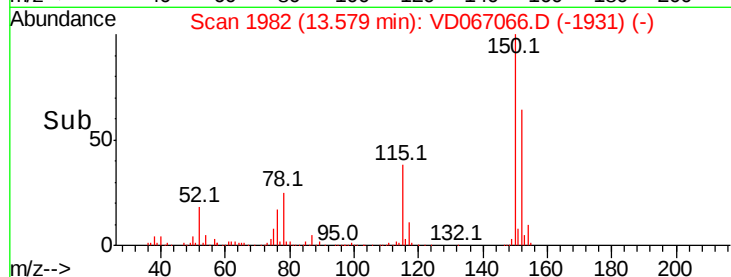
150 161.2 0.0 344.8



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



#76

1,2,3-Trichloropropane

Concen: 62.794 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067066.D

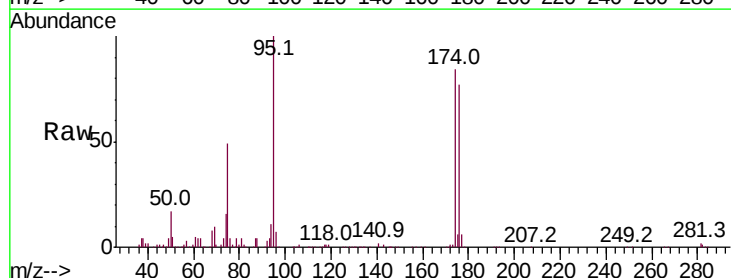
Acq: 03 Oct 2020 06:34

Tgt Ion: 75 Resp: 134710

Ion Ratio Lower Upper

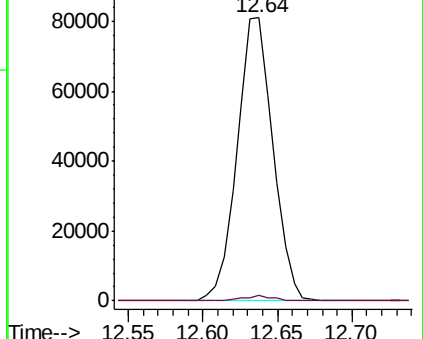
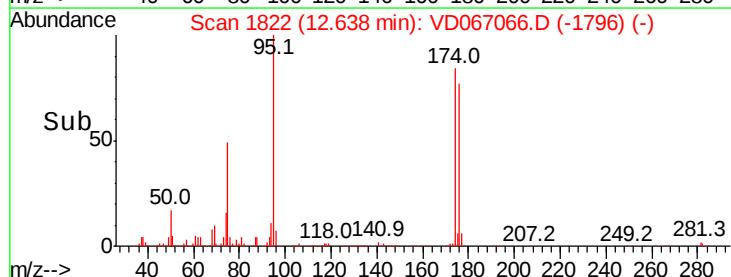
75 100

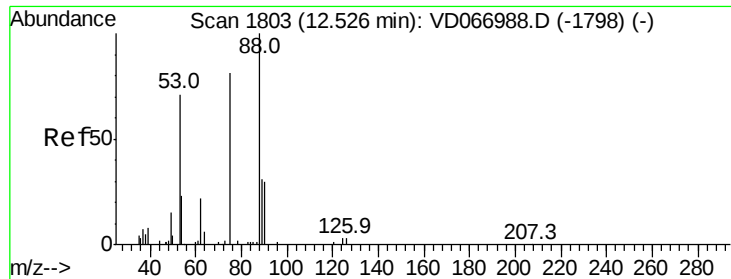
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 156.553 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067066.D

Acq: 03 Oct 2020 06:34

Instrument :

MSVOA_D

ClientSampleId :

PY-BIN-4

Tot Ion: 75 Resp: 134710

Ion Ratio Lower Upper

75 100

53 0.2 73.8 110.6#

89 0.0 38.9 58.3#

