

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100520\
 Data File : VD067090.D
 Acq On : 05 Oct 2020 18:14
 Operator : VA/SY
 Sample : L4242-09
 Misc : 7.3G/5.00ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B17-100120-0-1

Quant Time: Oct 06 07:19:45 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	474501	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	803020	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	735030	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	343295	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	231819	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
35) Dibromofluoromethane	7.92	113	257802	49.04	ug/l	0.00
Spiked Amount			Recovery	=	98.08%	
50) Toluene-d8	10.34	98	942230	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	
62) 4-Bromofluorobenzene	12.64	95	336570	51.75	ug/l	0.00
Spiked Amount			Recovery	=	103.50%	

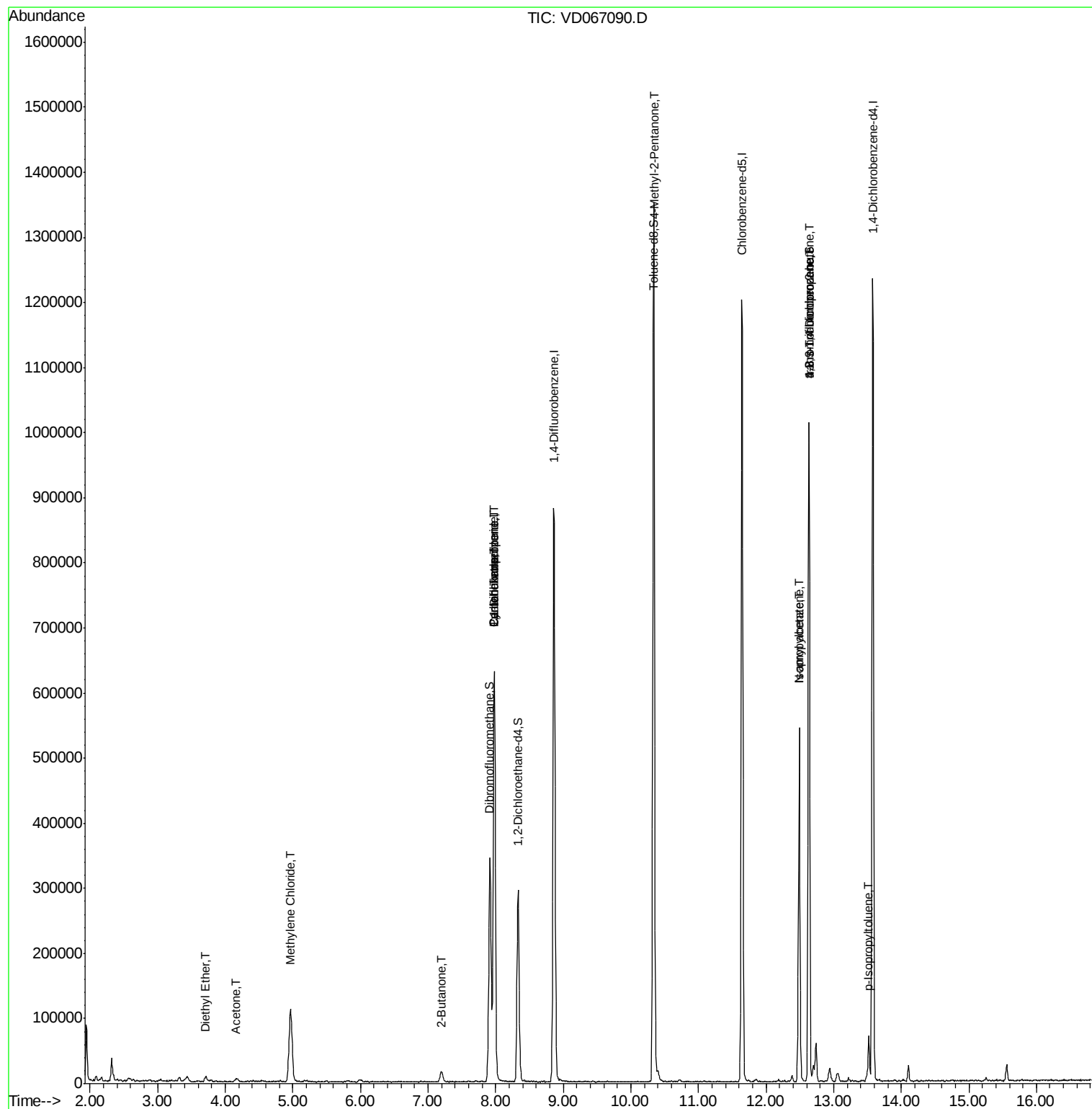
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	452	Below Cal	#	40
5) Bromomethane	2.78	94	146	Below Cal		94
8) Diethyl Ether	3.71	74	4455	2.134	ug/l	94
11) Tert butyl alcohol	5.21	59	580	Below Cal	#	72
16) Acetone	4.16	43	7475	10.714	ug/l	92
20) Methylene Chloride	4.96	84	93887	13.679	ug/l	98
25) 2-Butanone	7.21	43	1947	1.968	ug/l #	46
26) 2,2-Dichloropropane	7.19	77	1136	Below Cal	#	53
31) Cyclohexane	7.98	56	8420	1.227	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	33839	4.521	ug/l #	50
38) Carbon Tetrachloride	7.97	117	48133	5.943	ug/l #	15
51) 4-Methyl-2-Pentanone	10.35	43	3481	1.463	ug/l #	1
73) Isopropylbenzene	12.49	105	26300	1.128	ug/l #	70
74) N-amyl acetate	12.48	43	10795	2.576	ug/l #	18
76) 1,2,3-Trichloropropane	12.64	75	165194	55.245	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	165194	137.733	ug/l #	12
86) p-Isopropyltoluene	13.52	119	38870	1.795	ug/l	92

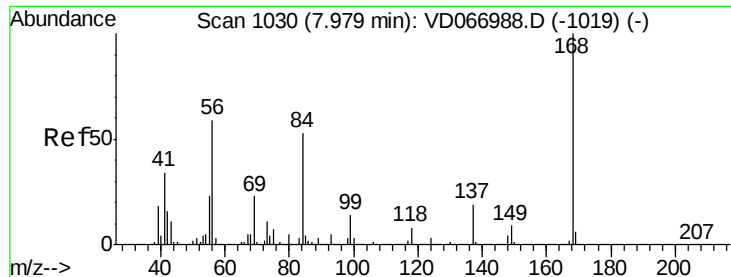
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Title : SW846 8260
QLast Update : Thu Oct 01 15:19:17 2020
Response via : Initial Calibration

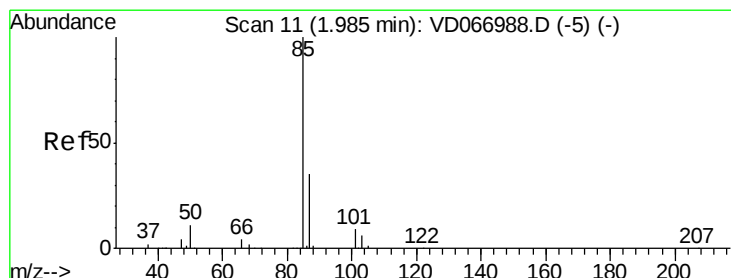
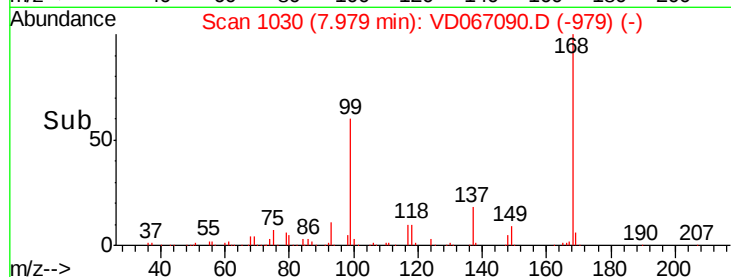
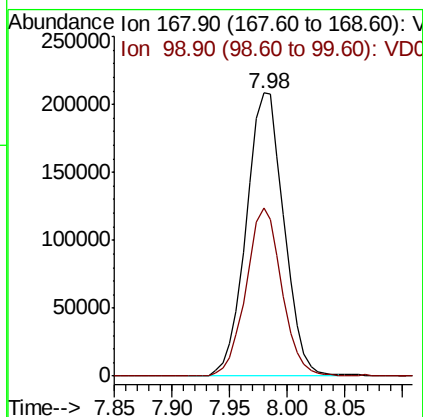
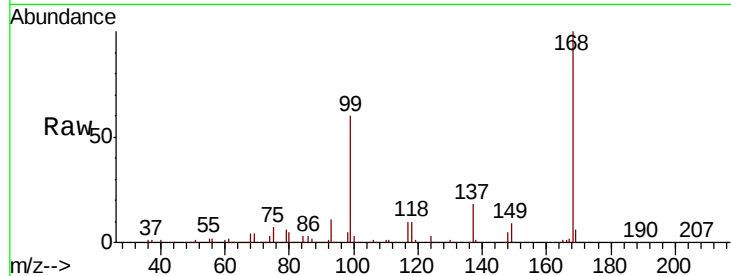




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VD067090.D
Acq: 05 Oct 2020 18:14

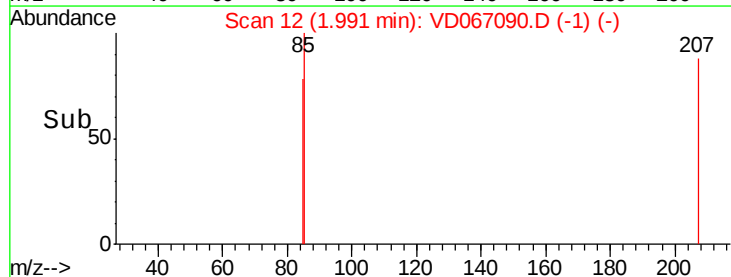
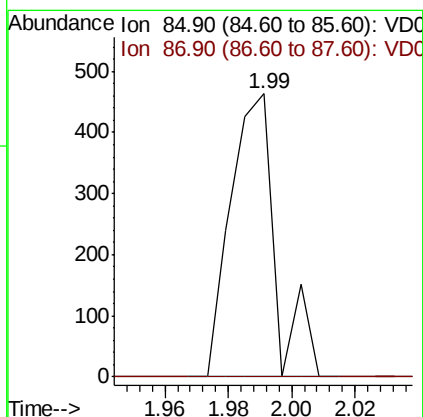
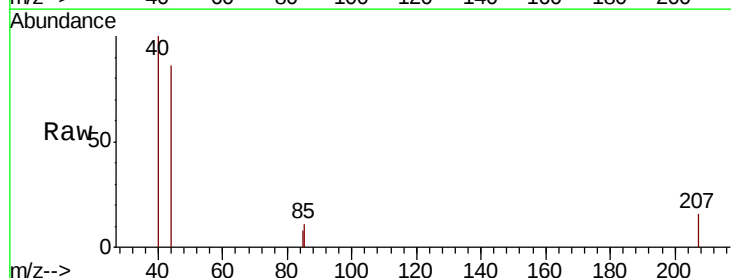
Instrument :
MSVOA_D
ClientSampleId :
PAV-B17-100120-0-1

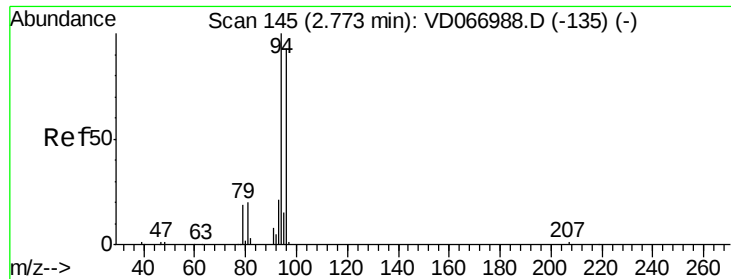
Tot Ion:168 Resp: 474501
Ion Ratio Lower Upper
168 100
99 59.5 44.1 66.1



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.99 min Scan# 12
Delta R.T. 0.01 min
Lab File: VD067090.D
Acq: 05 Oct 2020 18:14

Tgt Ion: 85 Resp: 452
Ion Ratio Lower Upper
85 100
87 0.0 17.3 52.0#





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067090.D

Acq: 05 Oct 2020 18:14

Instrument :

MSVOA_D

ClientSampleId :

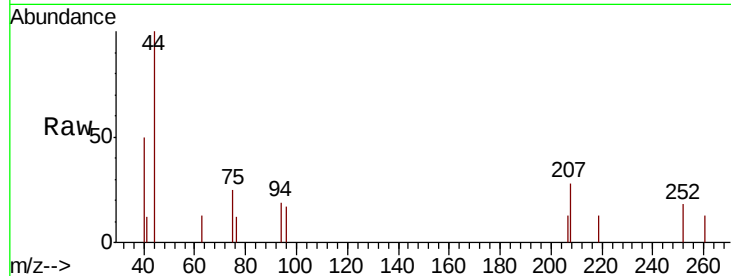
PAV-B17-100120-0-1

Tot Ion: 94 Resp: 146

Ion Ratio Lower Upper

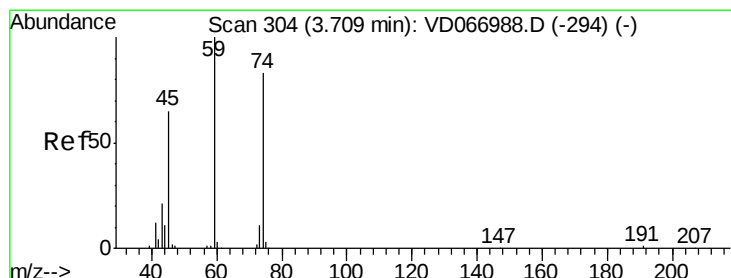
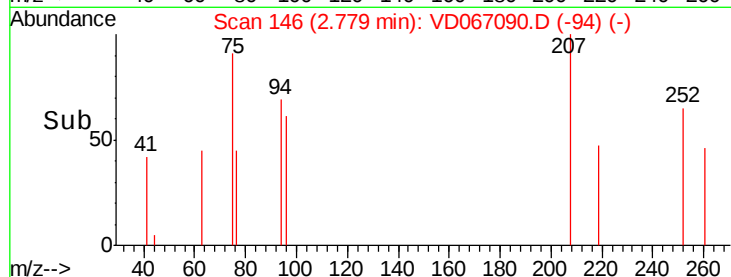
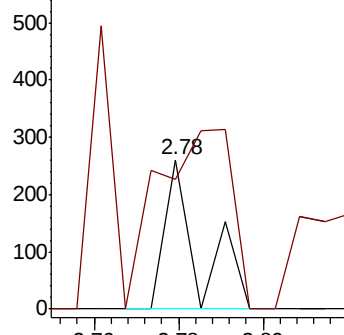
94 100

96 87.3 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#8

Diethyl Ether

Concen: 2.134 ug/l

RT: 3.71 min Scan# 305

Delta R.T. 0.01 min

Lab File: VD067090.D

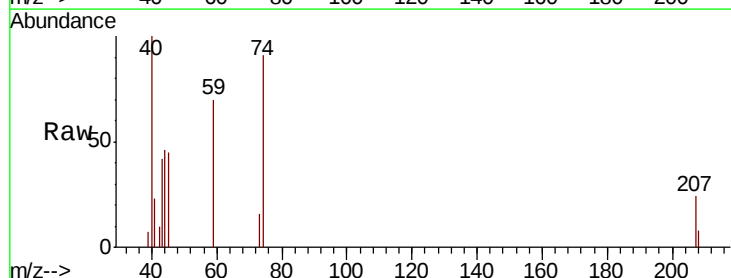
Acq: 05 Oct 2020 18:14

Tgt Ion: 74 Resp: 4455

Ion Ratio Lower Upper

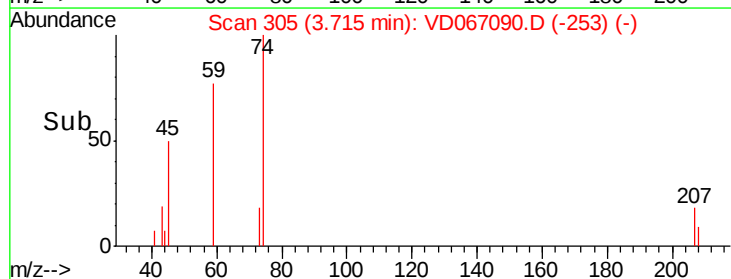
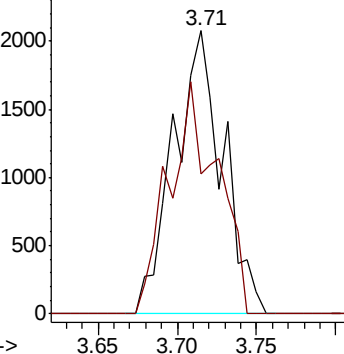
74 100

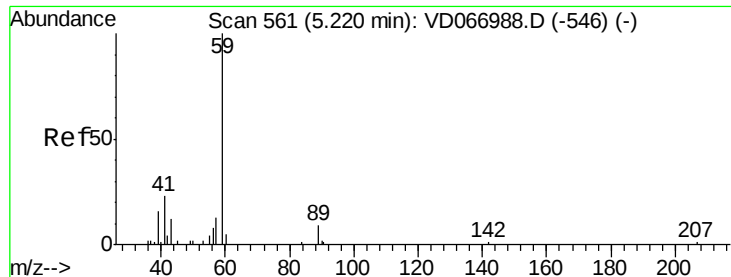
45 80.9 43.1 129.3



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.00 (44.70 to 45.70): VDC



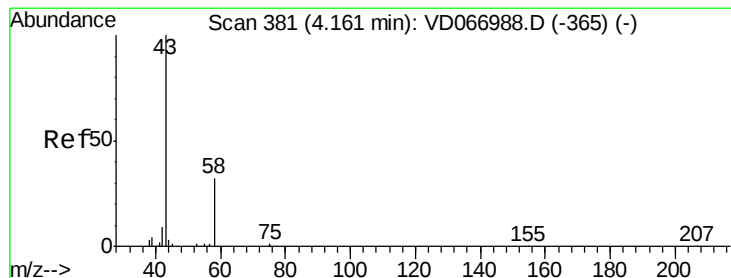
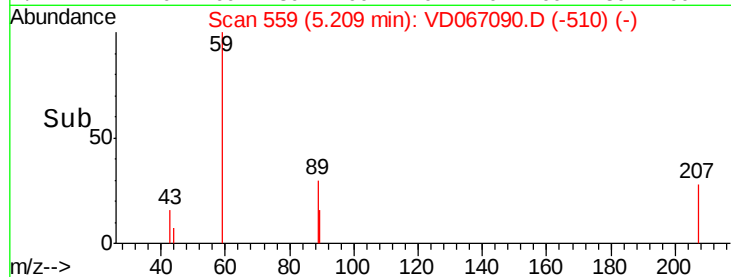
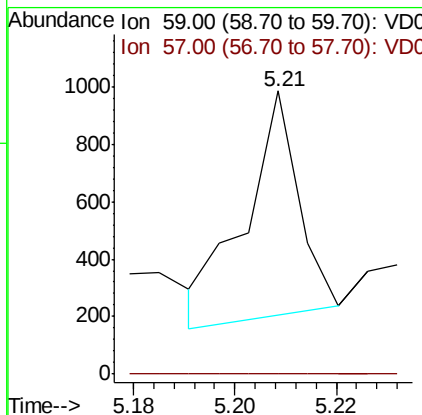
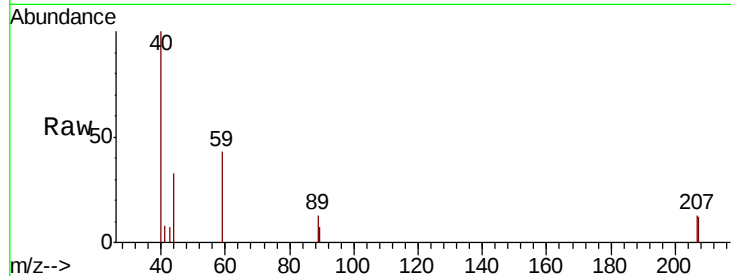


#11

Tert butyl alcohol
 Concen: Below Cal
 RT: 5.21 min Scan# 559
 Delta R.T. -0.01 min
 Lab File: VD067090.D
 Acq: 05 Oct 2020 18:14

Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B17-100120-0-1

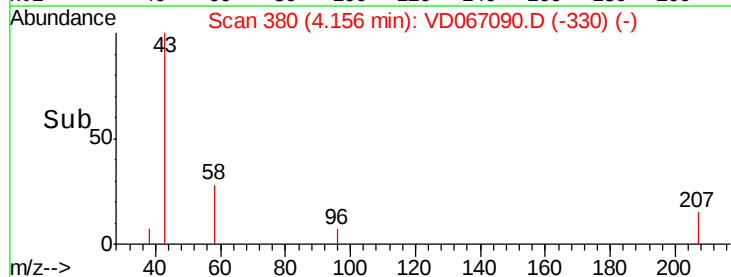
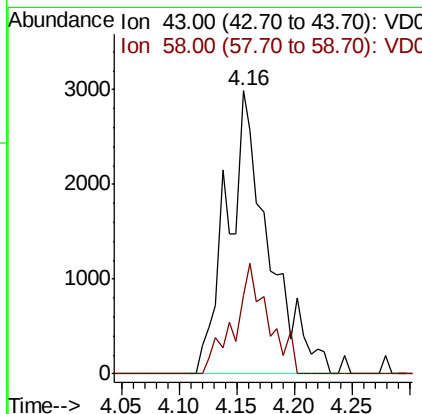
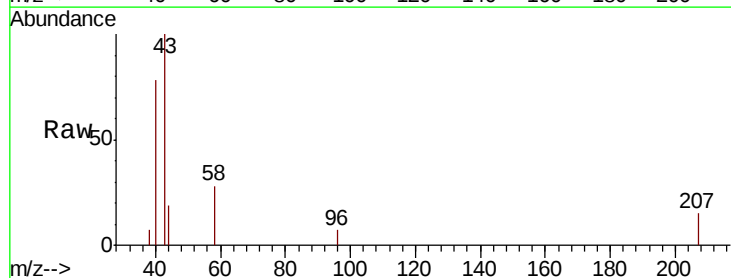
Tot Ion: 59 Resp: 580
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

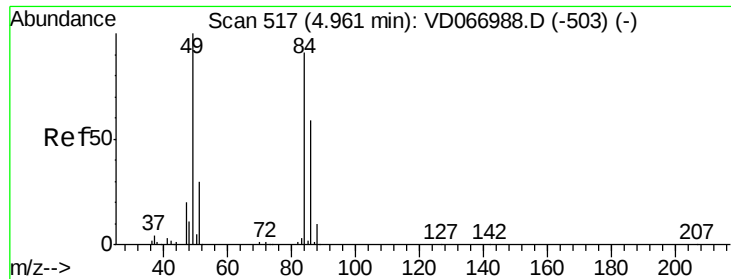


#16

Acetone
 Concen: 10.714 ug/l
 RT: 4.16 min Scan# 380
 Delta R.T. -0.01 min
 Lab File: VD067090.D
 Acq: 05 Oct 2020 18:14

Tgt Ion: 43 Resp: 7475
 Ion Ratio Lower Upper
 43 100
 58 27.7 25.9 38.9

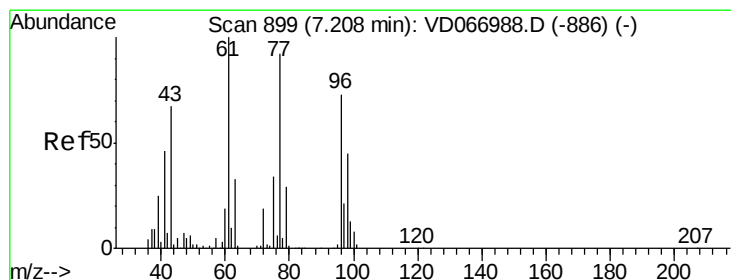
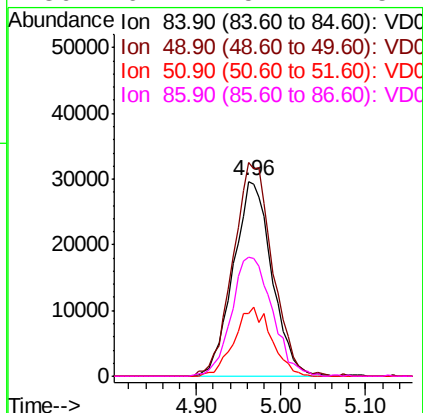
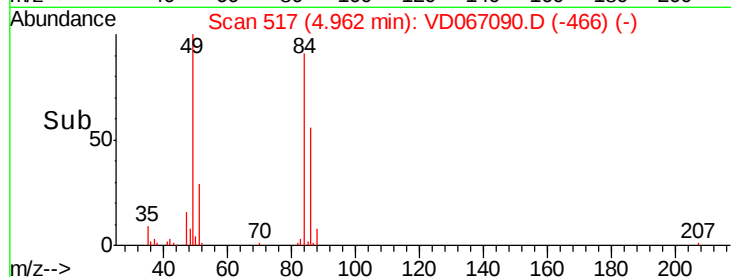
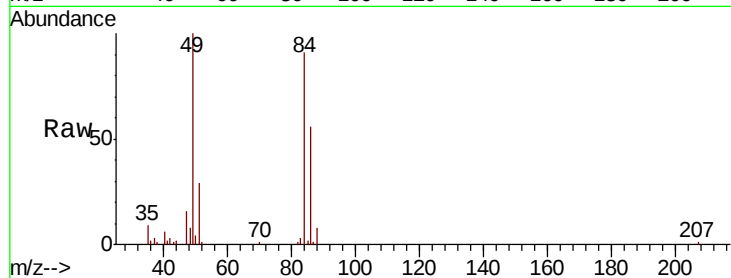




#20
Methvlene Chloride
Concen: 13.679 ug/l
RT: 4.96 min Scan# 517
Delta R.T. 0.00 min
Lab File: VD067090.D
Acq: 05 Oct 2020 18:14

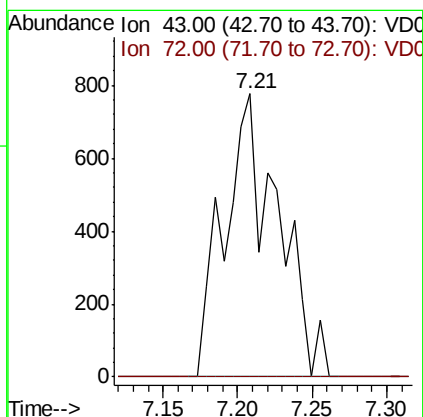
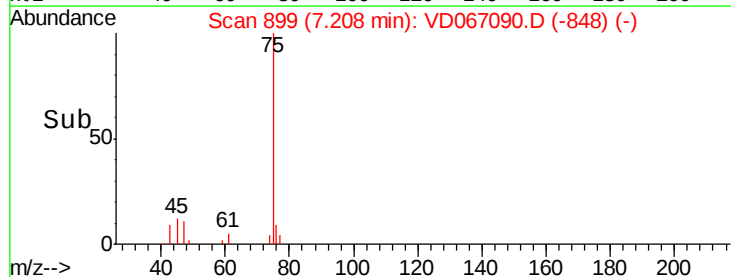
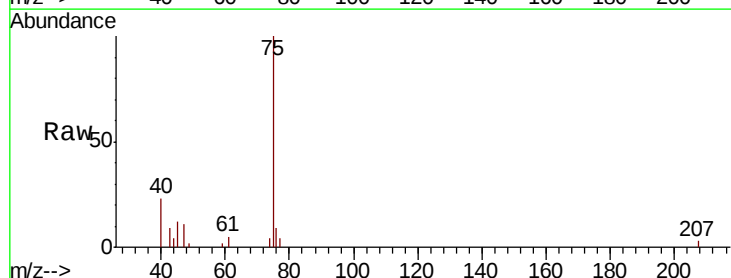
Instrument :
MSVOA_D
ClientSampleId :
PAV-B17-100120-0-1

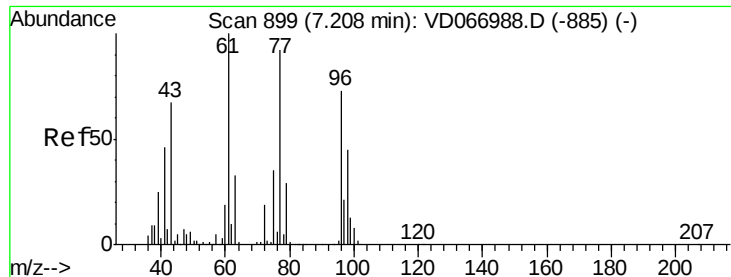
Tot Ion:	84	Resp:	93887
Ion	Ratio	Lower	Upper
84	100		
49	109.8	88.2	132.2
51	32.1	26.6	39.8
86	61.1	52.1	78.1



#25
2-Butanone
Concen: 1.968 ug/l
RT: 7.21 min Scan# 899
Delta R.T. 0.00 min
Lab File: VD067090.D
Acq: 05 Oct 2020 18:14

Tgt Ion:	43	Resp:	1947
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.8	34.2#





#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.19 min Scan# 896

Delta R.T. -0.02 min

Lab File: VD067090.D

Acq: 05 Oct 2020 18:14

Instrument :

MSVOA_D

ClientSampleId :

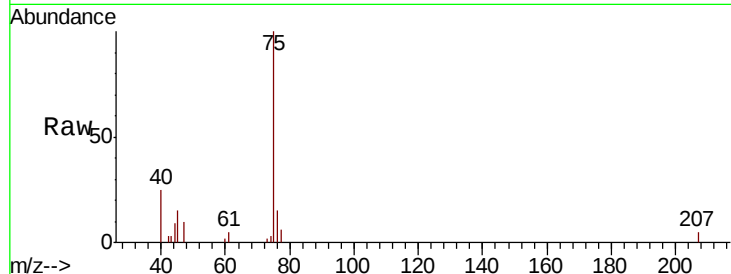
PAV-B17-100120-0-1

Tot Ion: 77 Resp: 1136

Ion Ratio Lower Upper

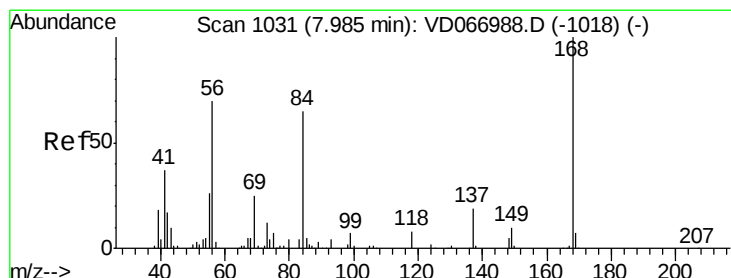
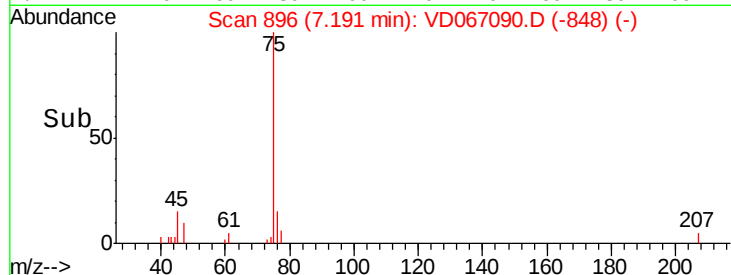
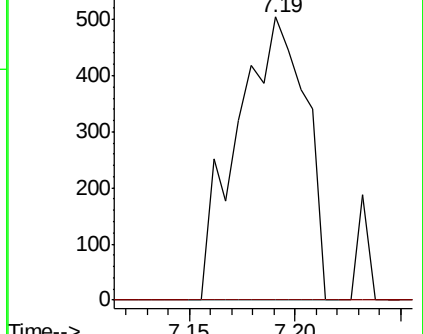
77 100

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: 1.227 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067090.D

Acq: 05 Oct 2020 18:14

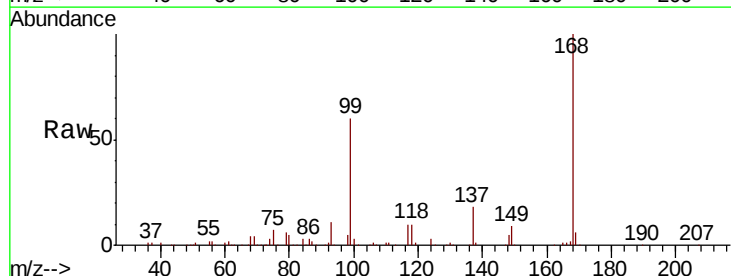
Tgt Ion: 56 Resp: 8420

Ion Ratio Lower Upper

56 100

69 236.5 29.0 43.6#

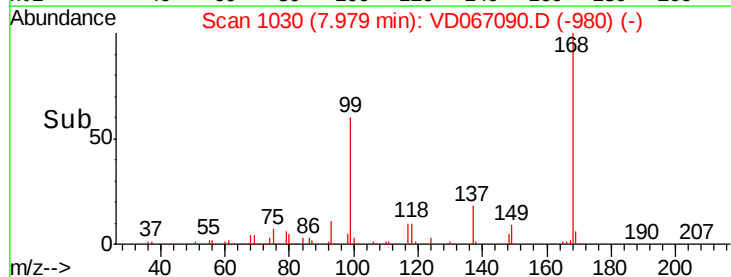
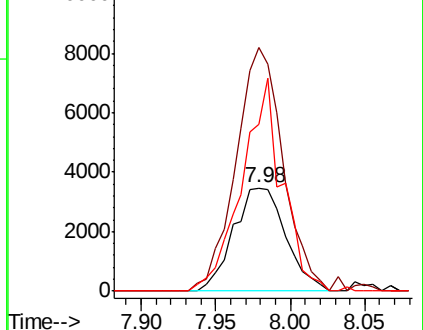
84 162.2 74.2 111.2#

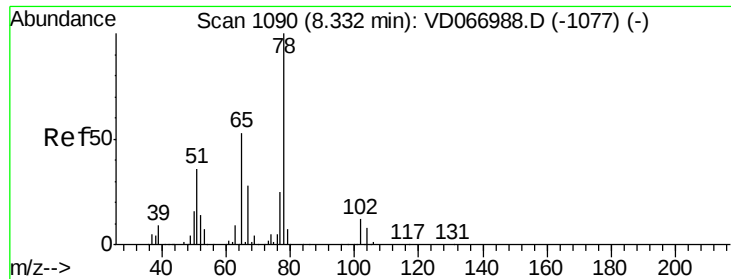


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC

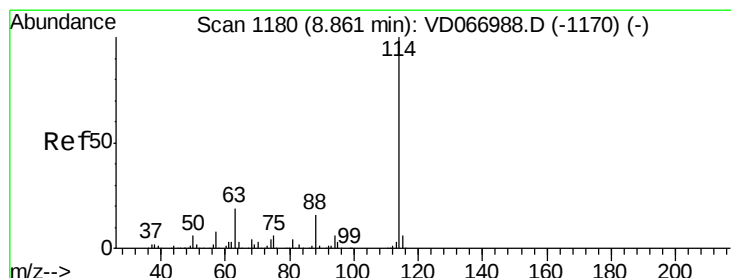
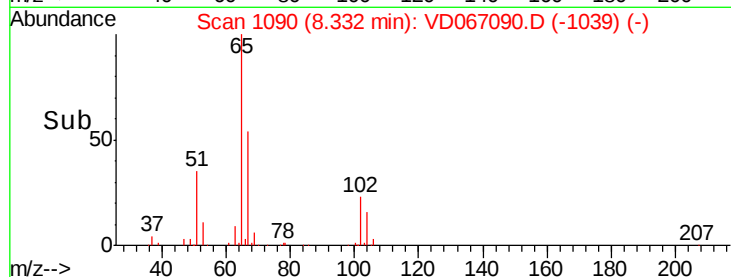
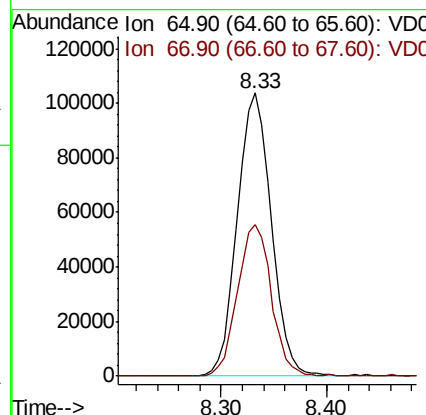
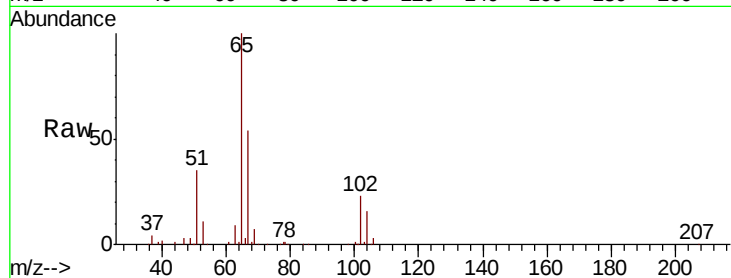




#33
 1,2-Dichloroethane-d4
 Concen: 50.722 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD067090.D
 Acq: 05 Oct 2020 18:14

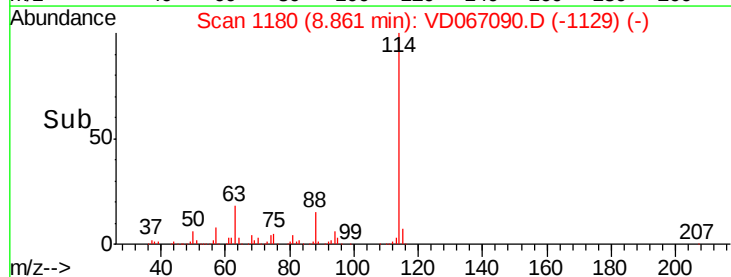
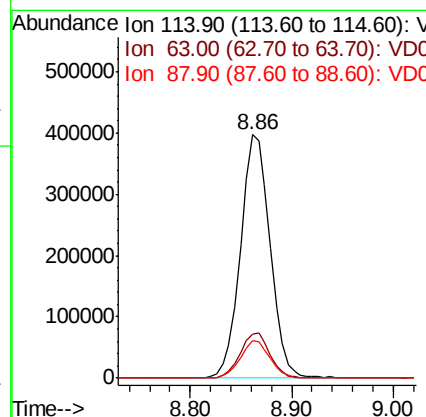
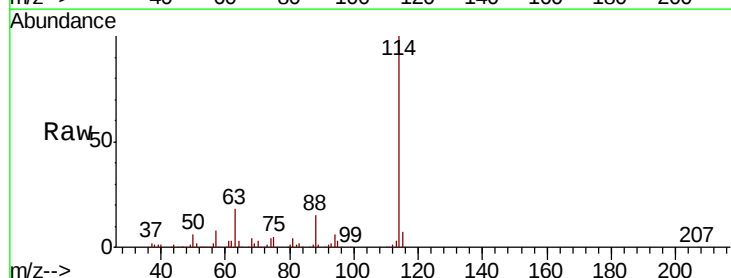
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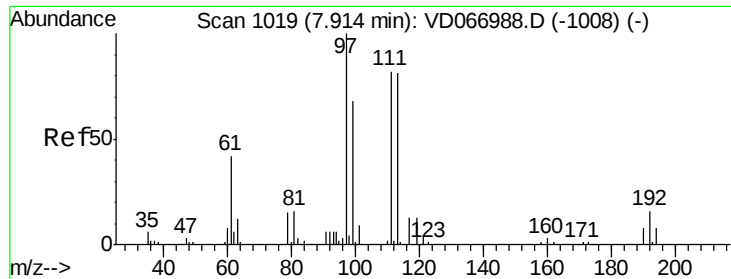
Tot Ion: 65 Resp: 231819
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD067090.D
 Acq: 05 Oct 2020 18:14

Tgt Ion: 114 Resp: 803020
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 38.4
 88 15.4 0.0 31.2

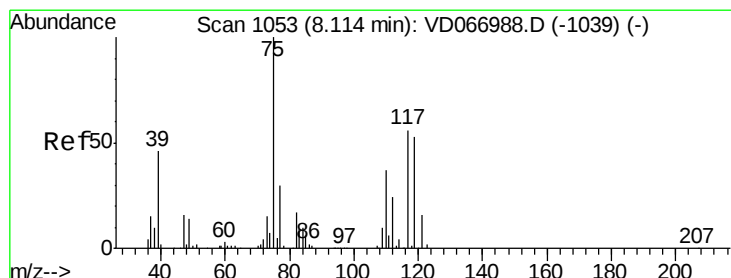
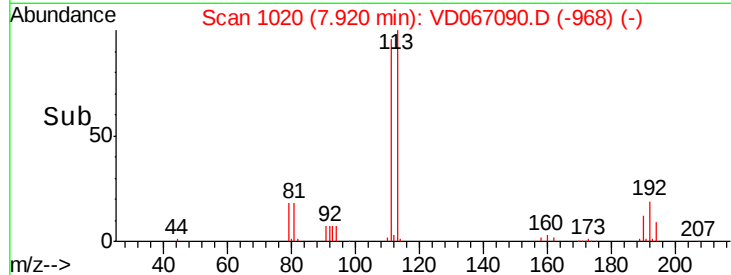
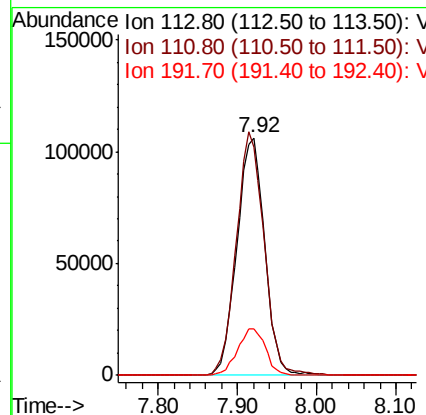
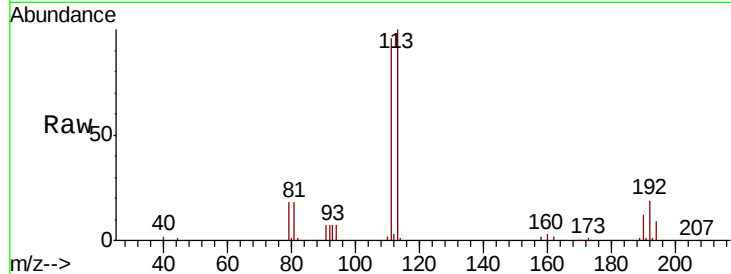




#35
 Dibromofluoromethane
 Concen: 49.038 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD067090.D
 Acq: 05 Oct 2020 18:14

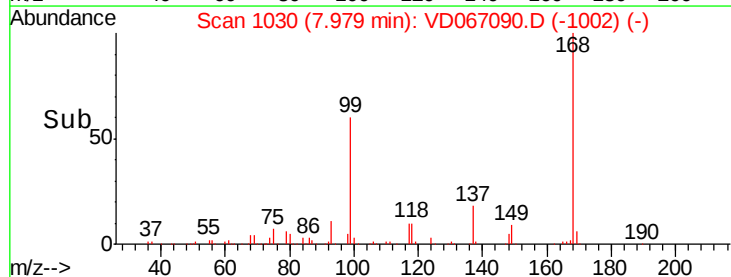
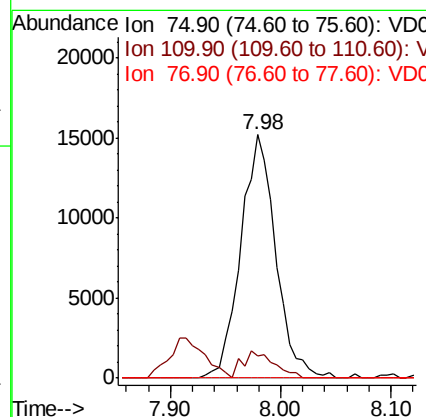
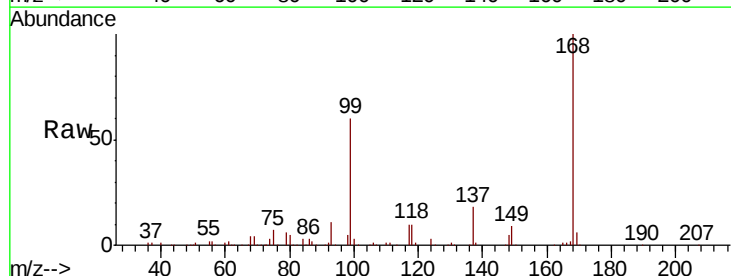
Instrument :
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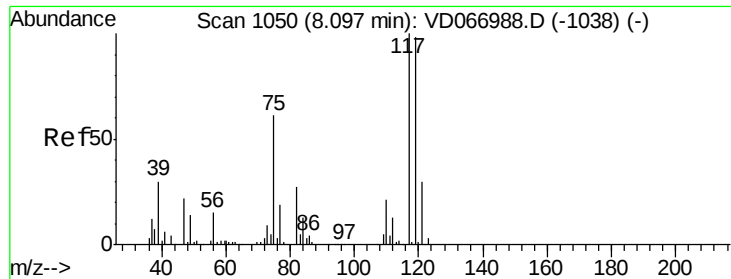
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.0	83.0	124.4
192	19.7	15.5	23.3



#36
 1,1-Dichloropropene
 Concen: 4.521 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD067090.D
 Acq: 05 Oct 2020 18:14

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.9	18.4	55.0#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 5.943 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.12 min

Lab File: VD067090.D

Acq: 05 Oct 2020 18:14

Instrument :

MSVOA_D

ClientSampleId :

PAV-B17-100120-0-1

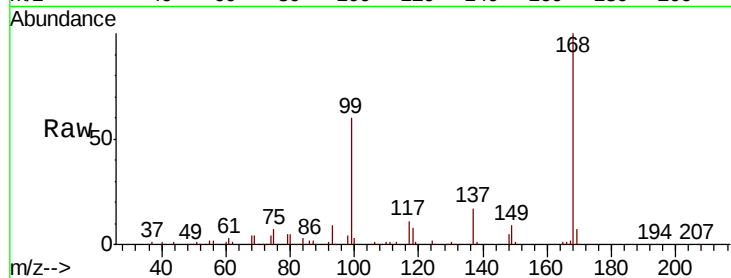
Tot Ion:117 Resp: 48133

Ion Ratio Lower Upper

117 100

119 5.4 78.7 118.1#

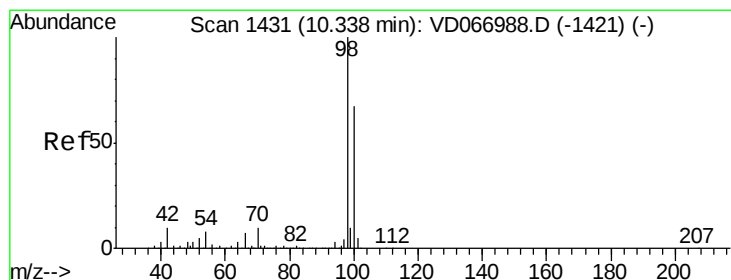
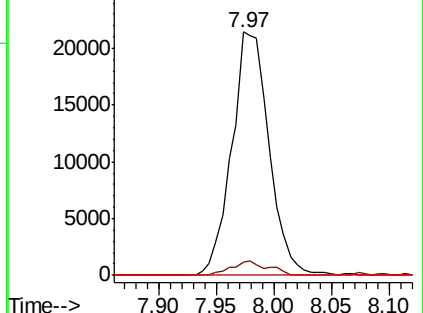
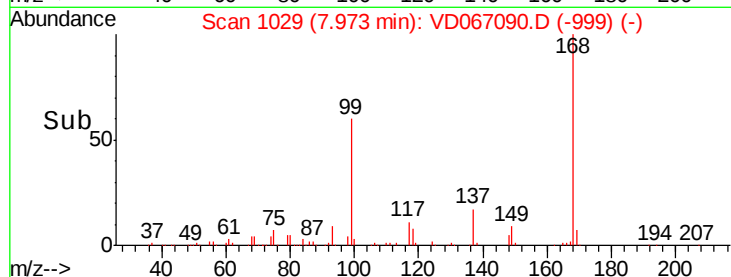
121 0.0 24.2 36.2#



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: 49.185 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067090.D

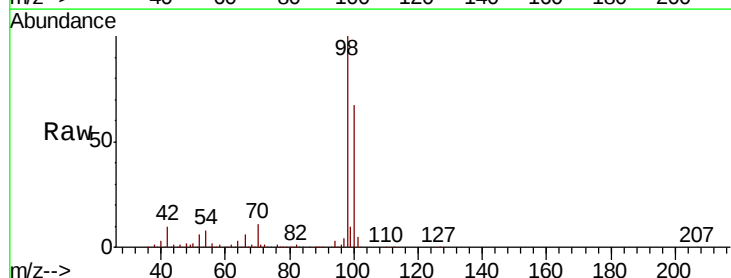
Acq: 05 Oct 2020 18:14

Tgt Ion: 98 Resp: 942230

Ion Ratio Lower Upper

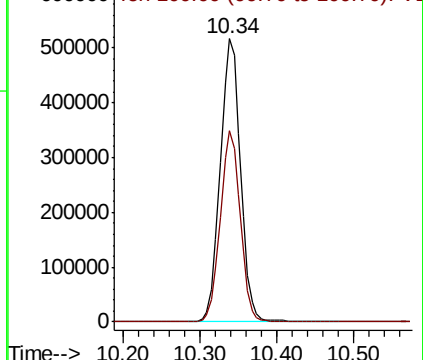
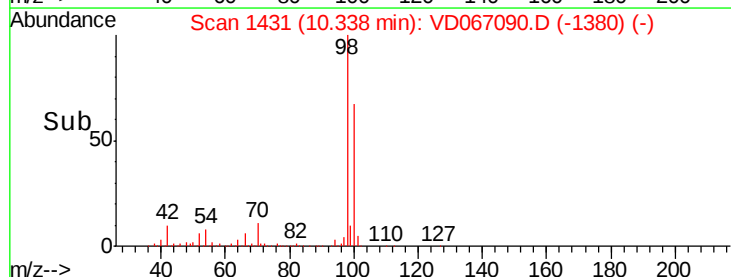
98 100

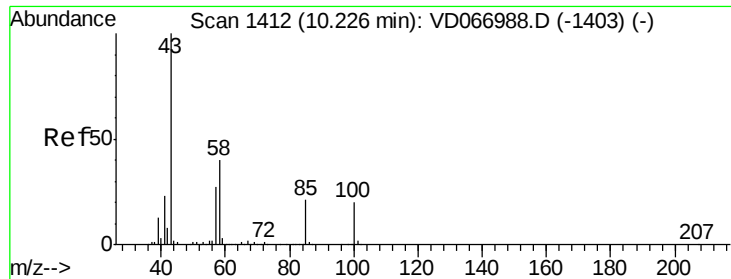
100 66.5 52.8 79.2



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: 1.463 ug/l

RT: 10.35 min Scan# 1433

Delta R.T. 0.12 min

Lab File: VD067090.D

Acq: 05 Oct 2020 18:14

Instrument :

MSVOA_D

ClientSampleId :

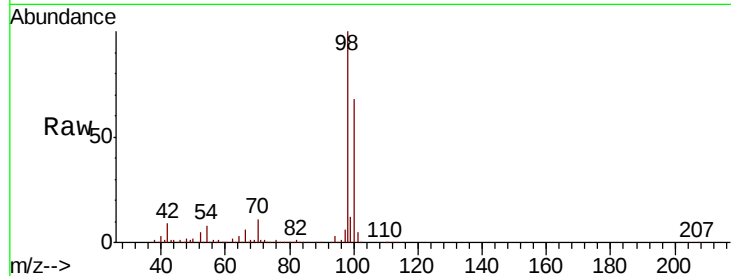
PAV-B17-100120-0-1

Tot Ion: 43 Resp: 3481

Ion Ratio Lower Upper

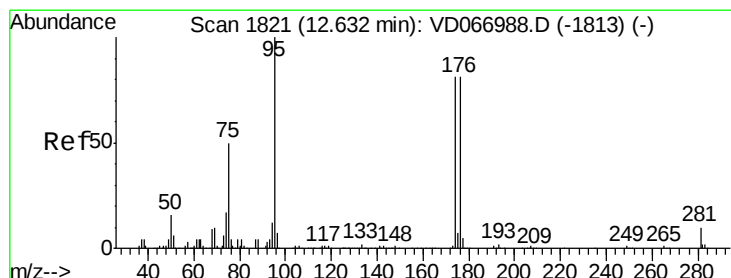
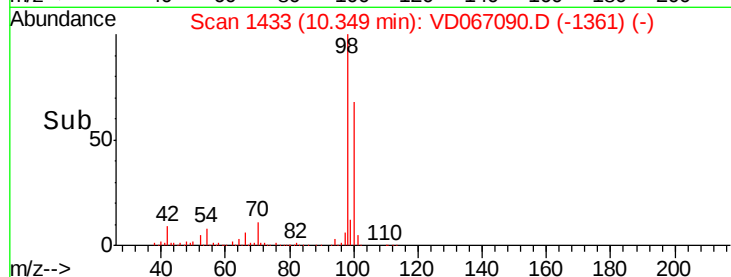
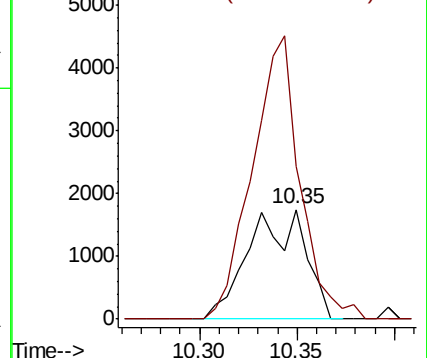
43 100

58 219.4 33.8 50.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#62

4-Bromofluorobenzene

Concen: 51.754 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067090.D

Acq: 05 Oct 2020 18:14

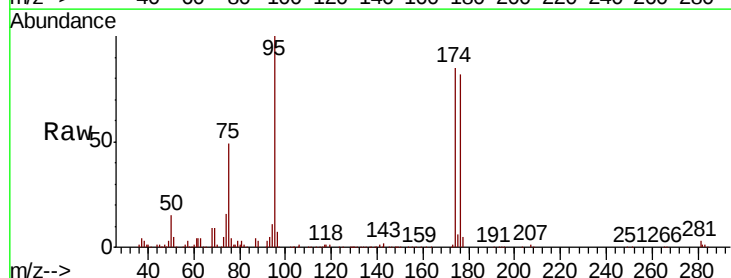
Tgt Ion: 95 Resp: 336570

Ion Ratio Lower Upper

95 100

174 84.1 0.0 167.6

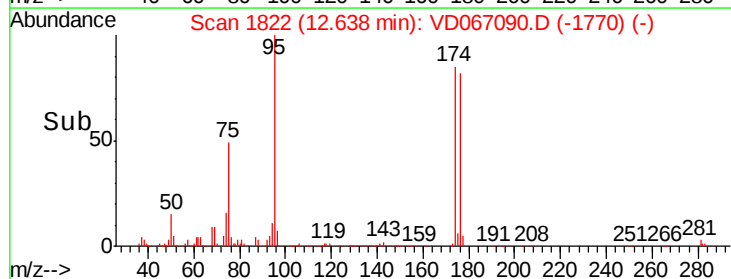
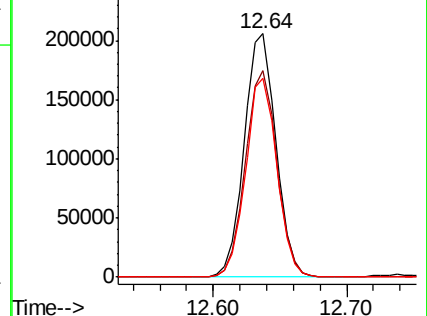
176 80.3 0.0 162.4

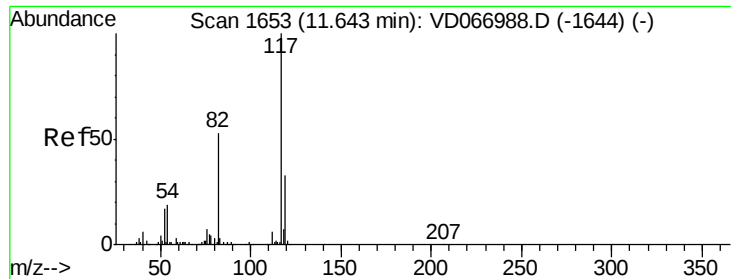


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

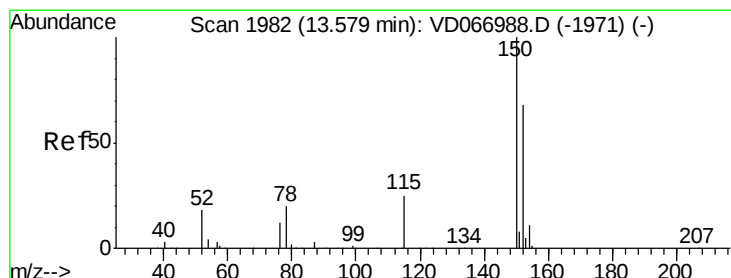
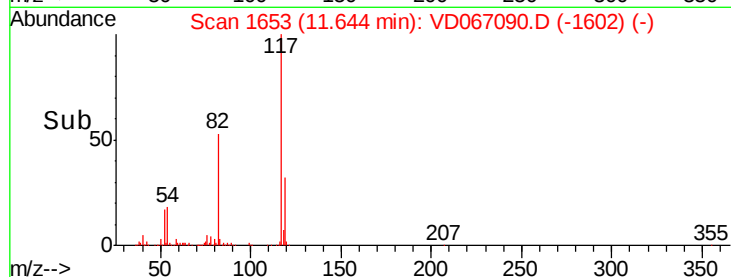
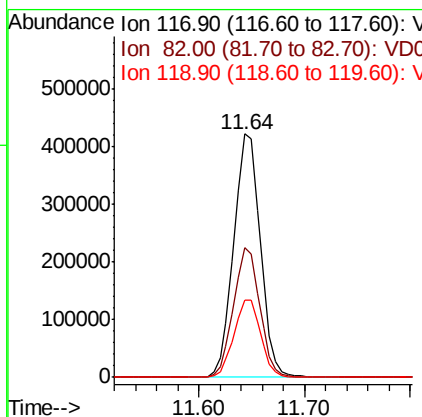
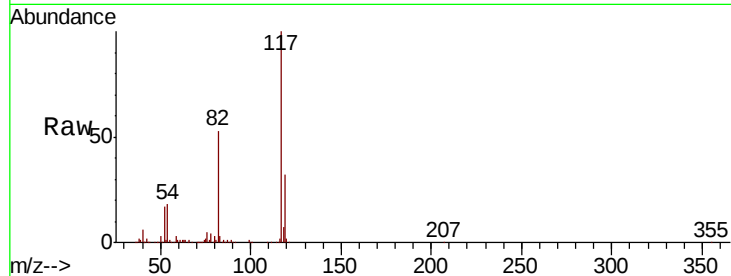




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067090.D
Acq: 05 Oct 2020 18:14

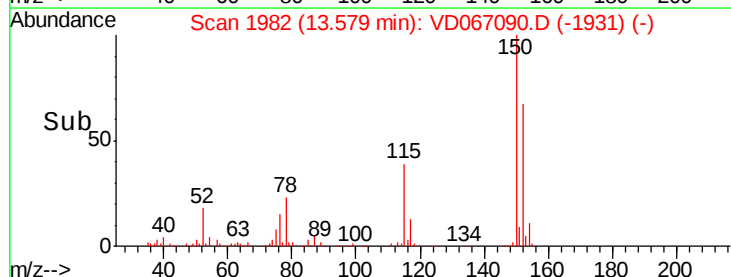
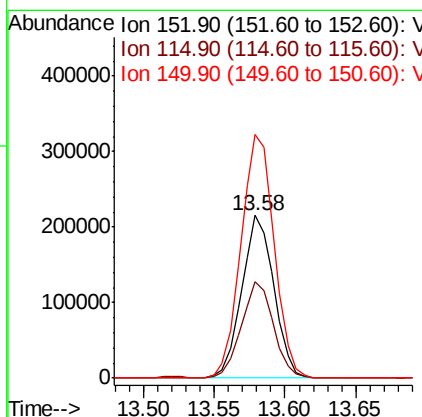
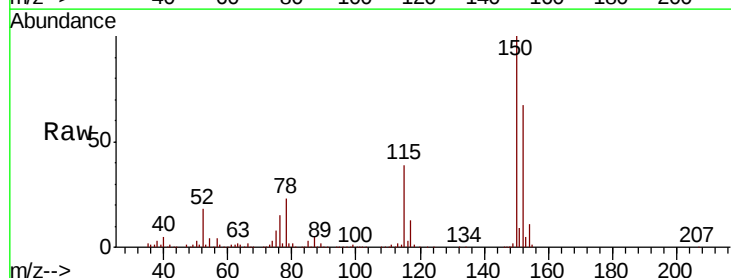
Instrument :
MSVOA_D
ClientSampleId :
PAV-B17-100120-0-1

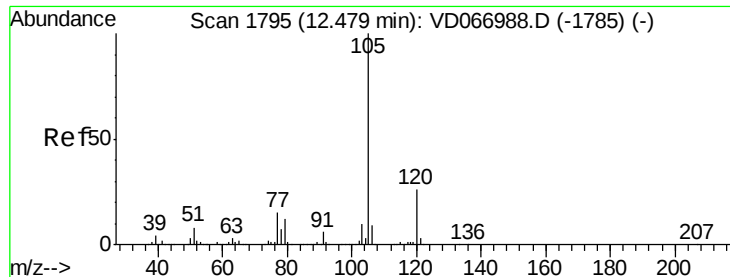
Tot Ion:117 Resp: 735030
Ion Ratio Lower Upper
117 100
82 53.1 42.6 63.8
119 31.8 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.00 min
Lab File: VD067090.D
Acq: 05 Oct 2020 18:14

Tgt Ion:152 Resp: 343295
Ion Ratio Lower Upper
152 100
115 58.8 29.6 88.8
150 154.5 0.0 344.8





#73

Isopropylbenzene

Concen: 1.128 ug/l

RT: 12.49 min Scan# 1797

Delta R.T. 0.01 min

Lab File: VD067090.D

Acq: 05 Oct 2020 18:14

Instrument :

MSVOA_D

ClientSampleId :

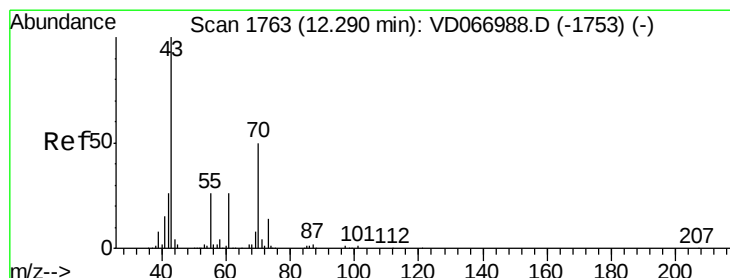
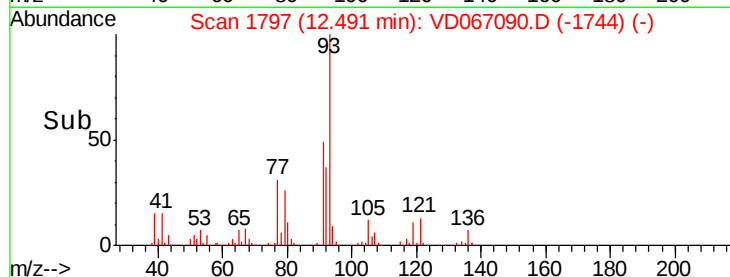
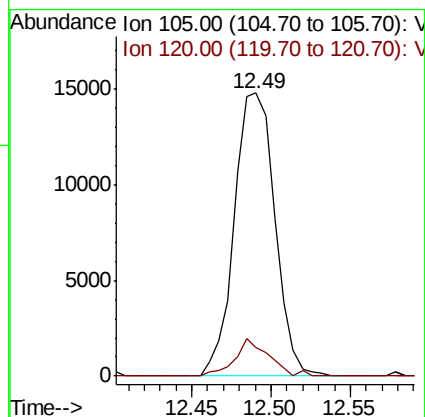
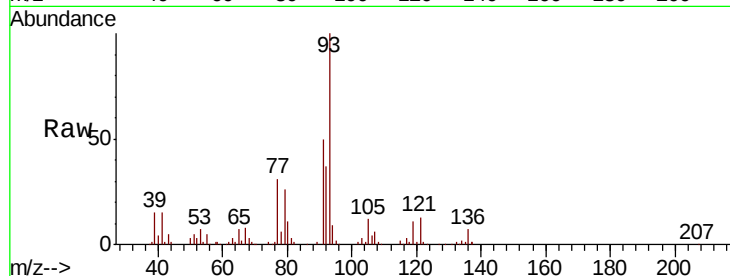
PAV-B17-100120-0-1

Tot Ion:105 Resp: 26300

Ion Ratio Lower Upper

105 100

120 11.2 13.3 39.9#



#74

N-ethyl acetate

Concen: 2.576 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.19 min

Lab File: VD067090.D

Acq: 05 Oct 2020 18:14

Tgt Ion: 43 Resp: 10795

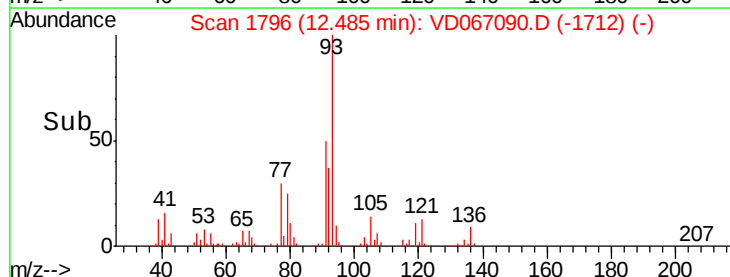
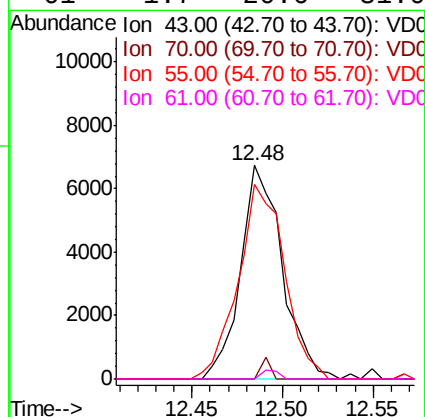
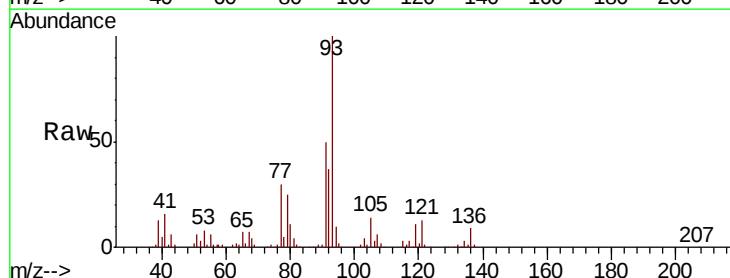
Ion Ratio Lower Upper

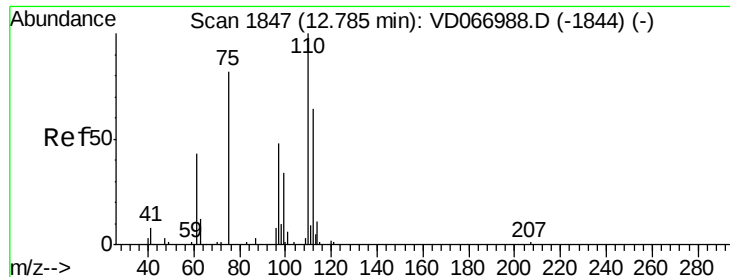
43 100

70 2.3 38.2 57.2#

55 101.1 22.4 33.6#

61 1.7 20.6 31.0#





#76

1,2,3-Trichloropropane

Concen: 55.245 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067090.D

Acq: 05 Oct 2020 18:14

Instrument :

MSVOA_D

ClientSampleId :

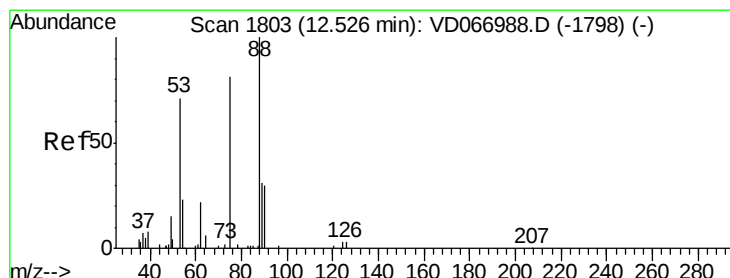
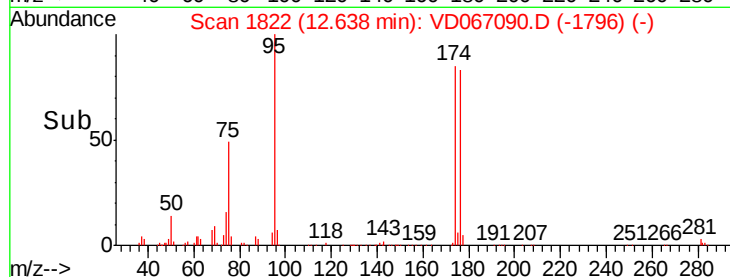
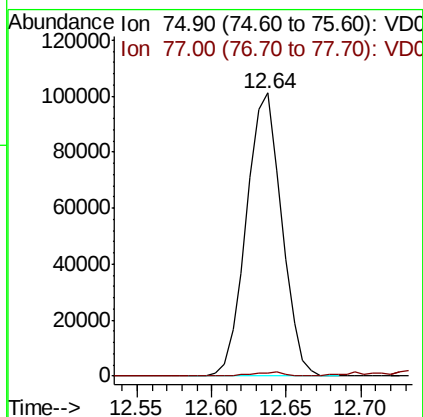
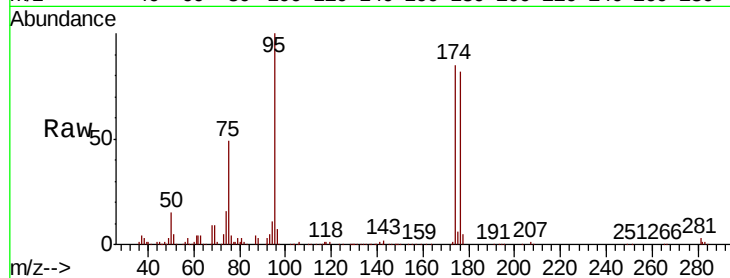
PAV-B17-100120-0-1

Tot Ion: 75 Resp: 165194

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 137.733 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067090.D

Acq: 05 Oct 2020 18:14

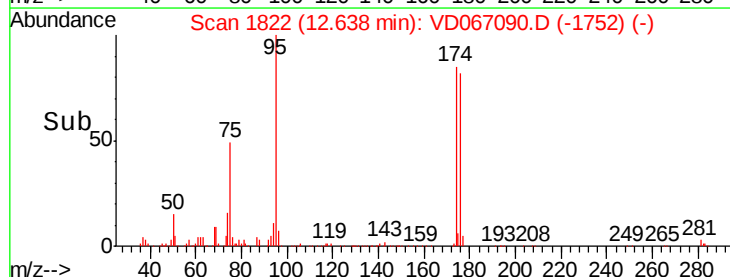
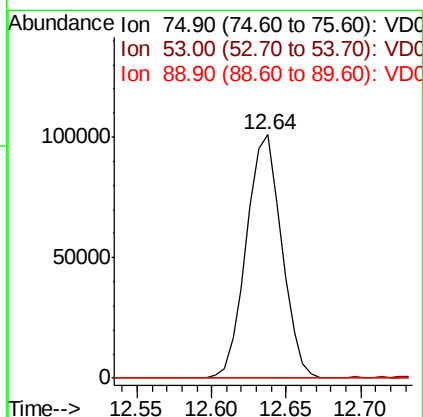
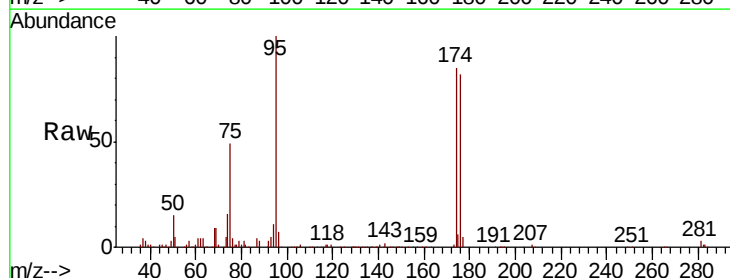
Tgt Ion: 75 Resp: 165194

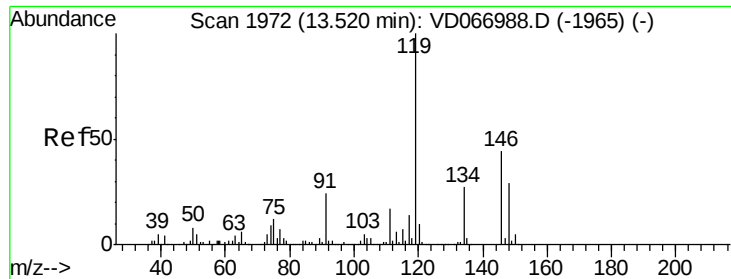
Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 38.9 58.3#





#86
 p-Isopropyltoluene
 Concen: 1.795 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.00 min
 Lab File: VD067090.D
 Acq: 05 Oct 2020 18:14

Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B17-100120-0-1

Tot Ion:	119	Resp:	38870
Ion	Ratio	Lower	Upper
119	100		
134	22.0	13.1	39.1
91	27.0	11.7	35.1

