

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100720\
 Data File : VD067173.D
 Acq On : 08 Oct 2020 02:03
 Operator : VA/SY
 Sample : L4291-09
 Misc : 7.83G/5.00ml/MSVOA D/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PAV-B4-100620-DP

Quant Time: Oct 08 07:29:54 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	401675	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	629785	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	588142	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	266651	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	188454	48.71	ug/l	0.00
Spiked Amount			Recovery	=	97.42%	
35) Dibromofluoromethane	7.92	113	200978	48.74	ug/l	0.00
Spiked Amount			Recovery	=	97.48%	
50) Toluene-d8	10.34	98	743290	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
62) 4-Bromofluorobenzene	12.64	95	240902	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	

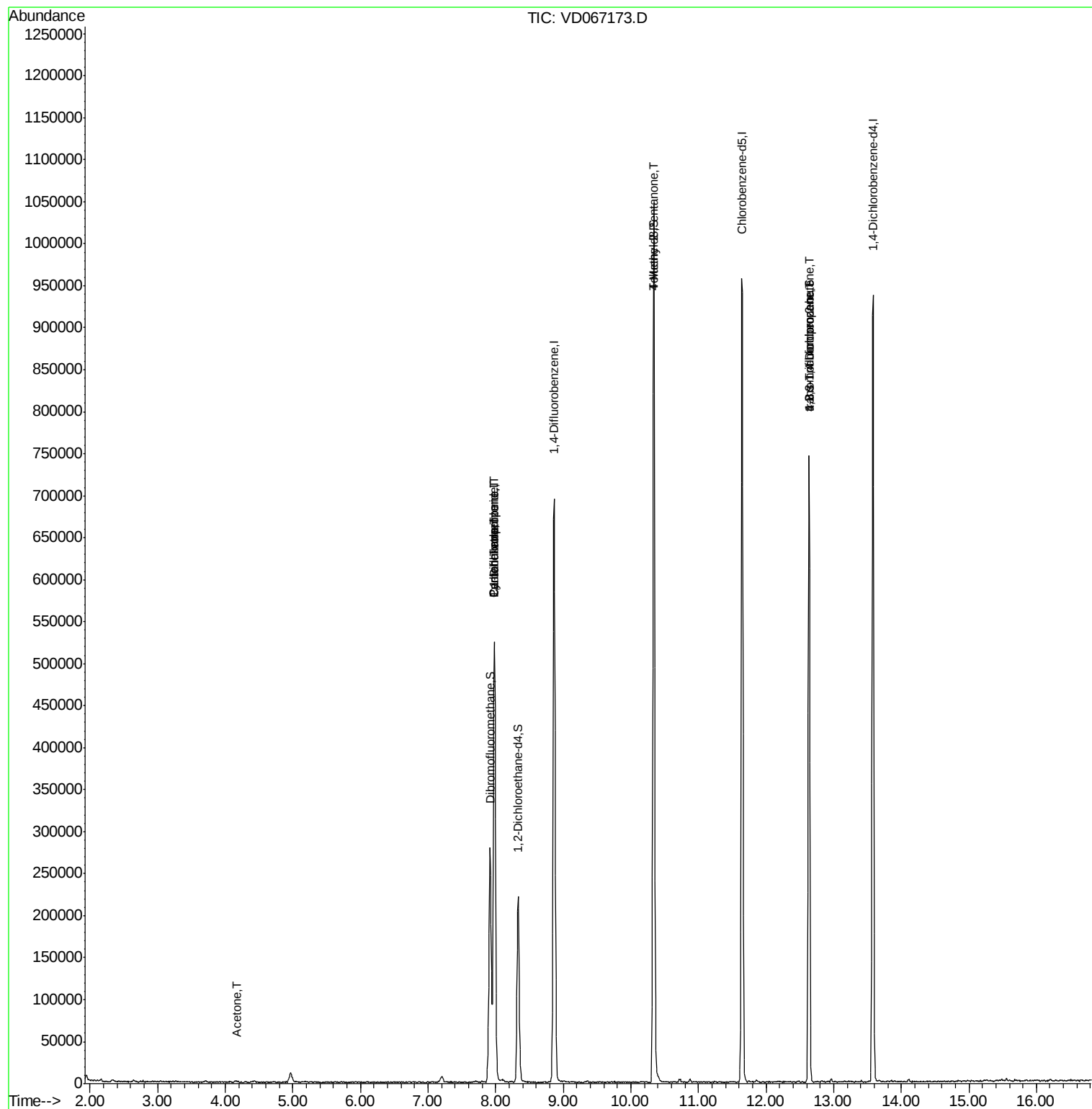
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	595	Below Cal	#	40
5) Bromomethane	2.78	94	401	Below Cal		85
11) Tert butyl alcohol	5.22	59	266	Below Cal	#	72
16) Acetone	4.16	43	3191	5.403	ug/l #	70
20) Methylene Chloride	4.97	84	9574	Below Cal	#	71
26) 2,2-Dichloropropane	7.19	77	443	Below Cal	#	53
31) Cyclohexane	7.97	56	7879	1.356	ug/l #	21
36) 1,1-Dichloropropene	7.98	75	28507	4.856	ug/l #	53
38) Carbon Tetrachloride	7.98	117	41651	6.558	ug/l #	16
51) 4-Methyl-2-Pentanone	10.34	43	2979	1.596	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	120818	52.018	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	120818	129.687	ug/l #	12

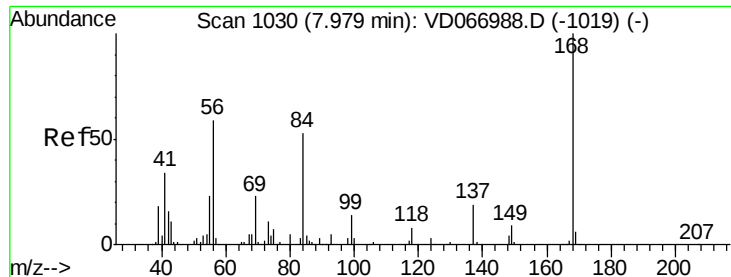
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD067173.D

Acq: 08 Oct 2020 02:03

Instrument :

MSVOA_D

ClientSampleId :

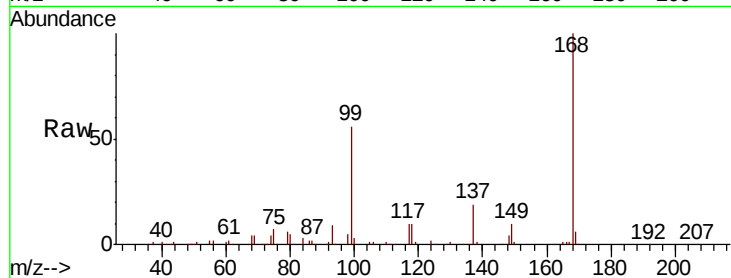
PAV-B4-100620-DP

Tot Ion:168 Resp: 401675

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

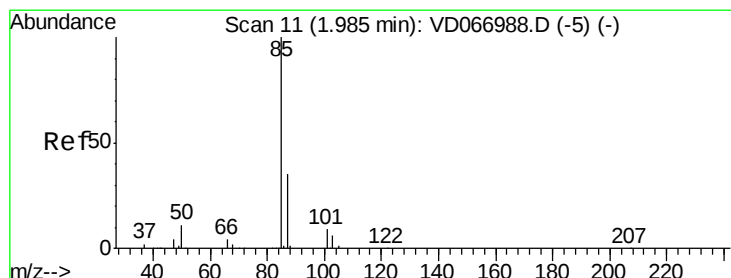
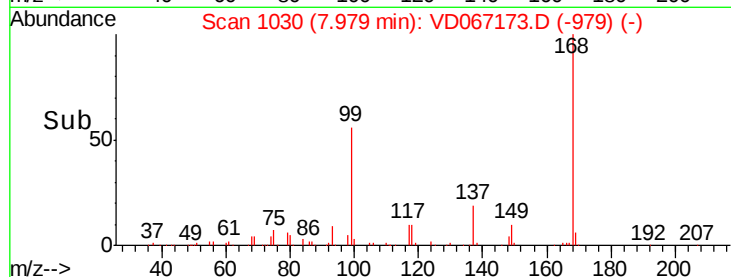
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067173.D

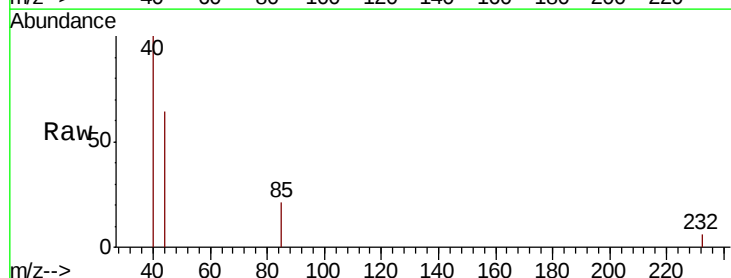
Acq: 08 Oct 2020 02:03

Tgt Ion: 85 Resp: 595

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

600

500

400

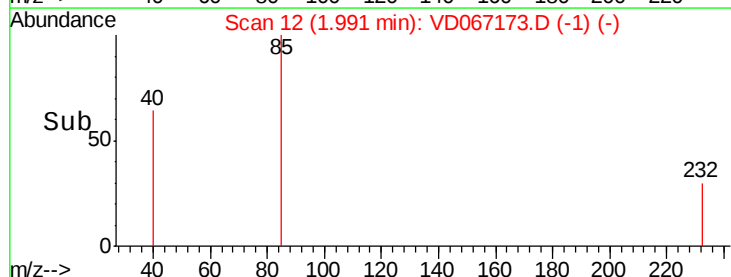
300

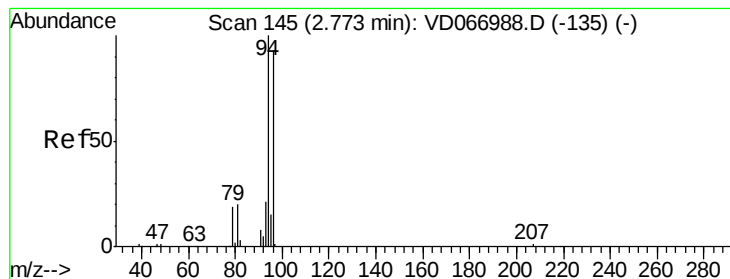
200

100

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067173.D

Acq: 08 Oct 2020 02:03

Instrument :

MSVOA_D

ClientSampleId :

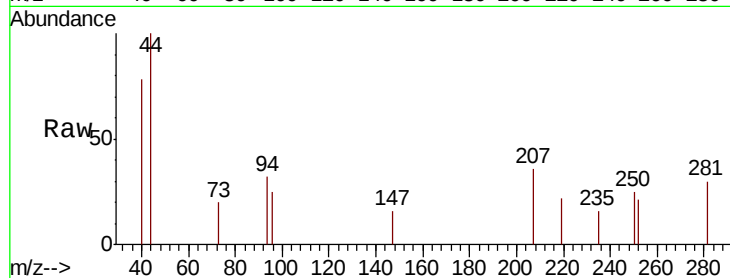
PAV-B4-100620-DP

Tot Ion: 94 Resp: 401

Ion Ratio Lower Upper

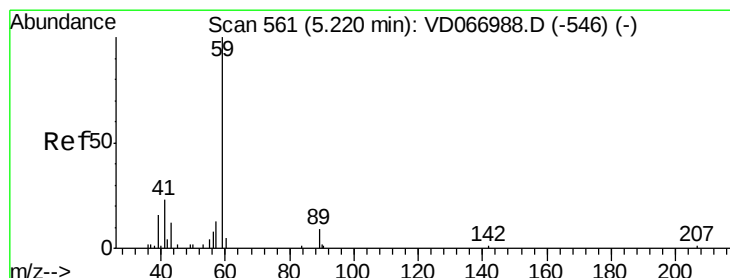
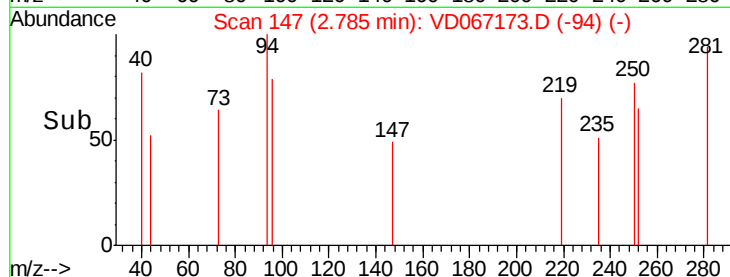
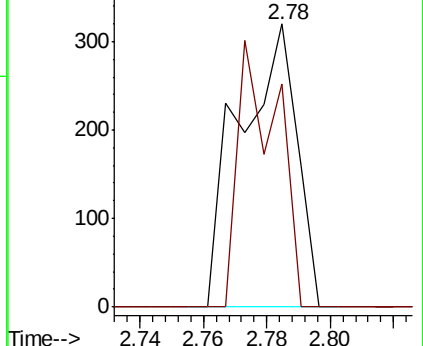
94 100

96 78.8 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.22 min Scan# 561

Delta R.T. -0.00 min

Lab File: VD067173.D

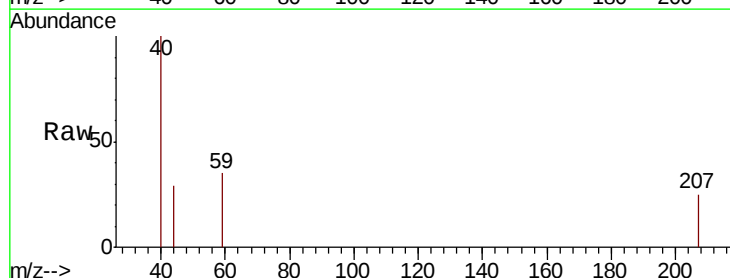
Acq: 08 Oct 2020 02:03

Tgt Ion: 59 Resp: 266

Ion Ratio Lower Upper

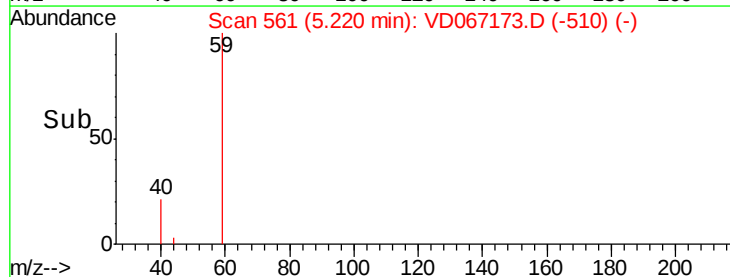
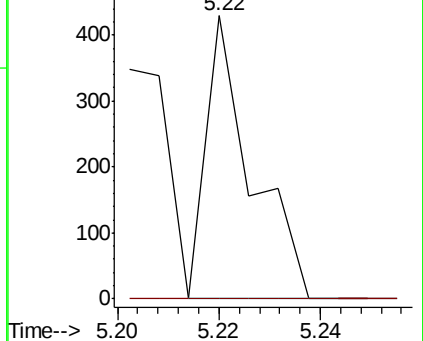
59 100

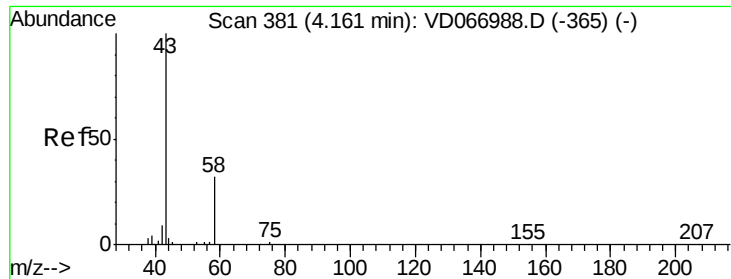
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 5.403 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.00 min

Lab File: VD067173.D

Acq: 08 Oct 2020 02:03

Instrument :

MSVOA_D

ClientSampleId :

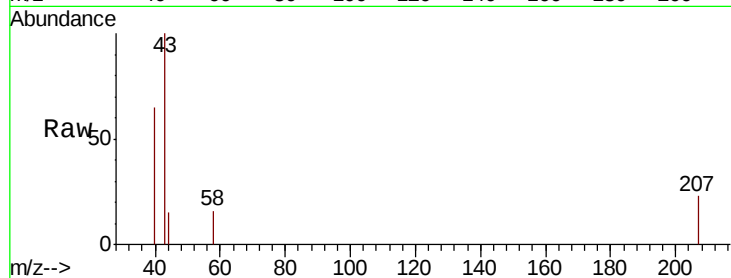
PAV-B4-100620-DP

Tot Ion: 43 Resp: 3191

Ion Ratio Lower Upper

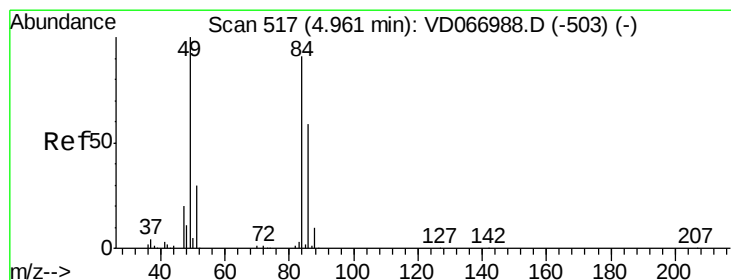
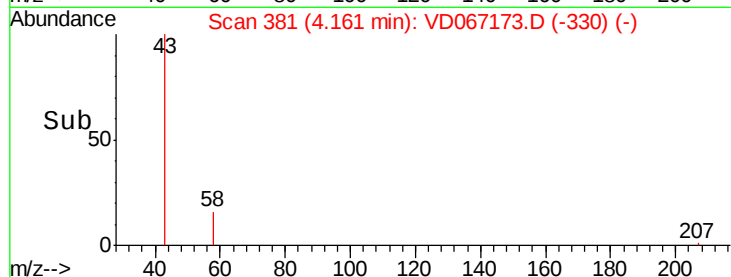
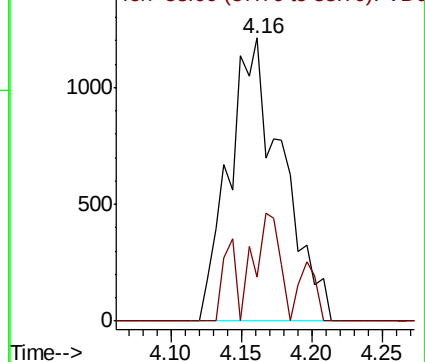
43 100

58 15.5 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: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD067173.D

Acq: 08 Oct 2020 02:03

Tgt Ion: 84 Resp: 9574

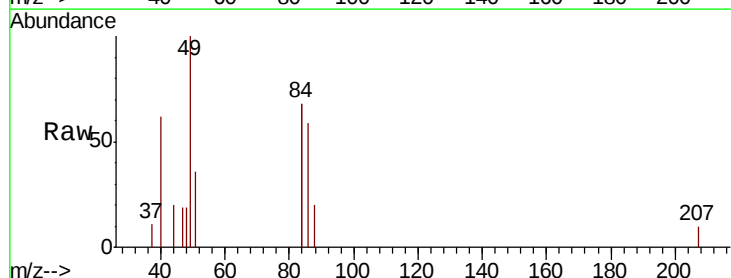
Ion Ratio Lower Upper

84 100

49 73.6 88.2 132.2#

51 26.5 26.6 39.8#

86 43.8 52.1 78.1#

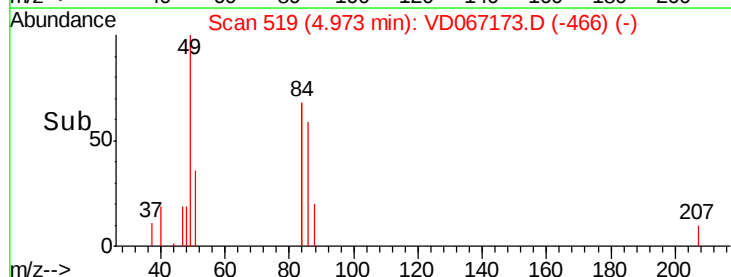
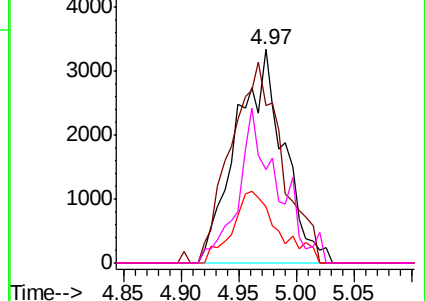


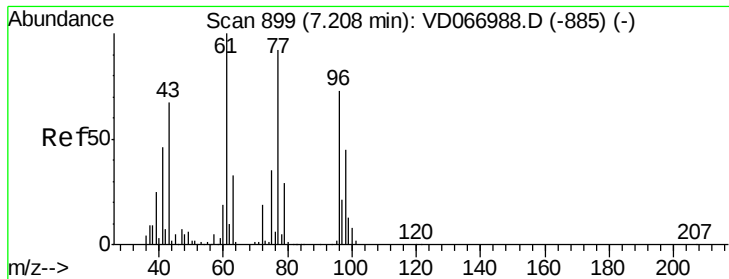
Abundance Ion 83.90 (83.60 to 84.60): VDC

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: 7.19 min Scan# 896

Delta R.T. -0.02 min

Lab File: VD067173.D

Acq: 08 Oct 2020 02:03

Instrument :

MSVOA_D

ClientSampleId :

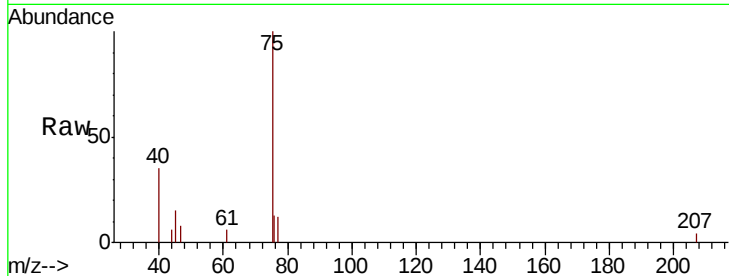
PAV-B4-100620-DP

Tot Ion: 77 Resp: 443

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

7.19

400

300

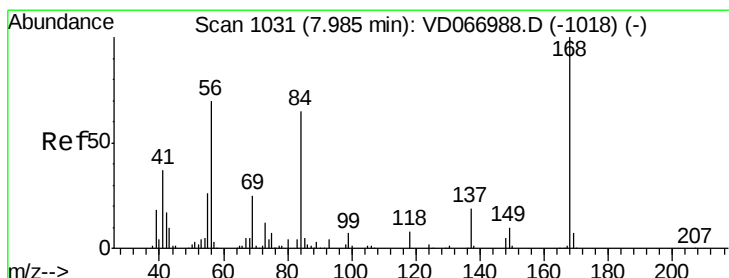
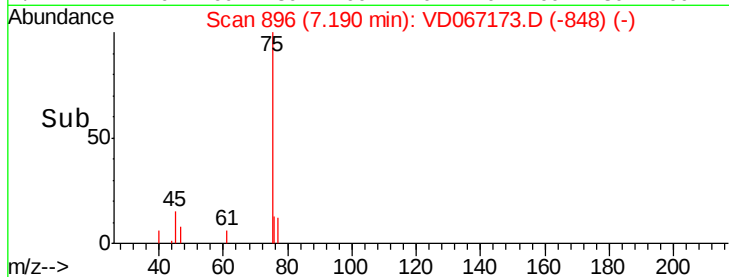
200

100

0

7.16 7.18 7.20 7.22

Time-->



#31

Cyclohexane

Concen: 1.356 ug/l

RT: 7.97 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VD067173.D

Acq: 08 Oct 2020 02:03

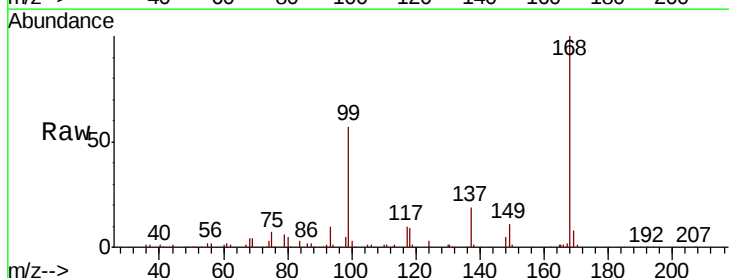
Tgt Ion: 56 Resp: 7879

Ion Ratio Lower Upper

56 100

69 164.3 29.0 43.6#

84 116.9 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

10000

8000

6000

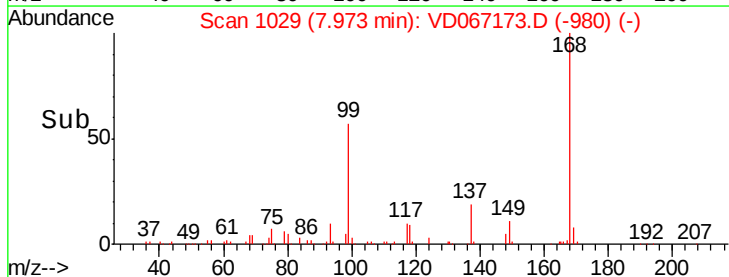
4000

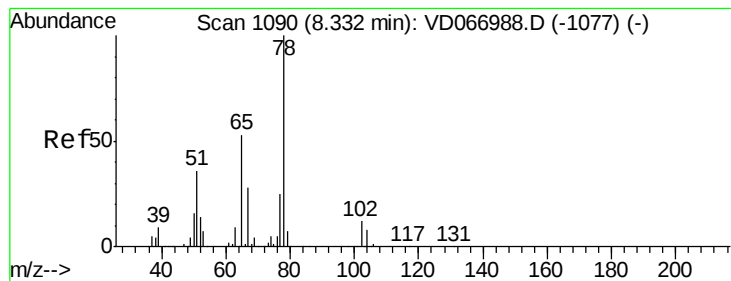
2000

0

7.90 7.95 8.00 8.05

Time-->





#33

1,2-Dichloroethane-d4

Concen: 48.710 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD067173.D

Acq: 08 Oct 2020 02:03

Instrument :

MSVOA_D

ClientSampleId :

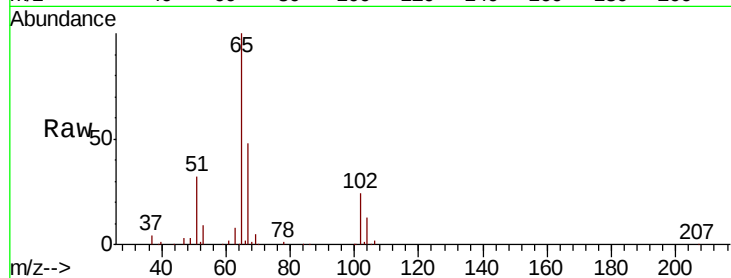
PAV-B4-100620-DP

Tot Ion: 65 Resp: 188454

Ion Ratio Lower Upper

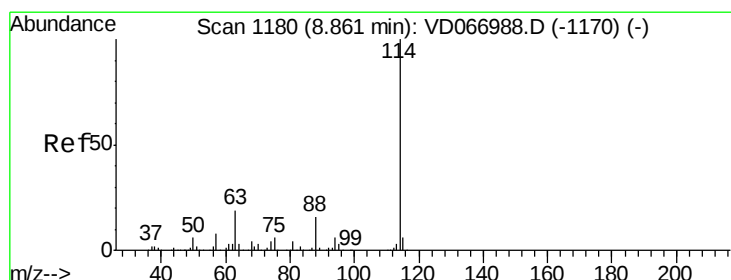
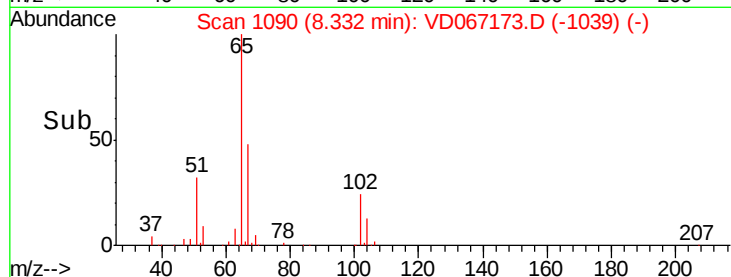
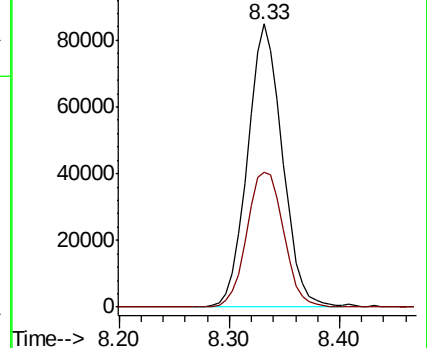
65 100

67 50.4 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: VD067173.D

Acq: 08 Oct 2020 02:03

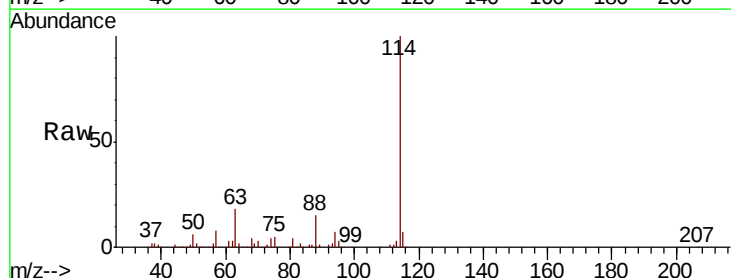
Tgt Ion: 114 Resp: 629785

Ion Ratio Lower Upper

114 100

63 18.4 0.0 38.4

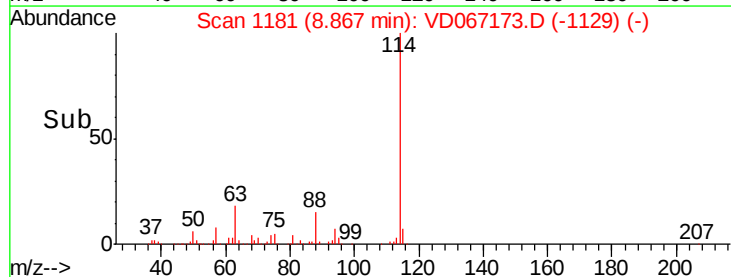
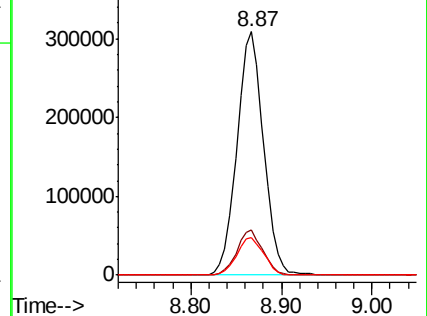
88 15.2 0.0 31.2

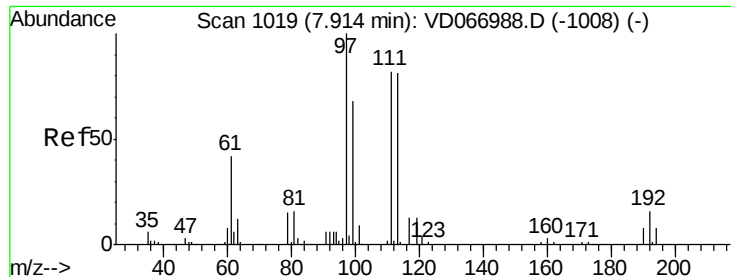


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

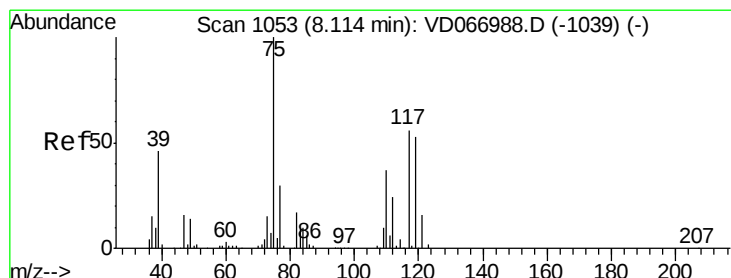
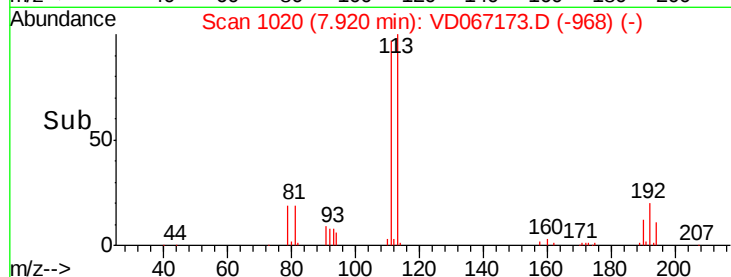
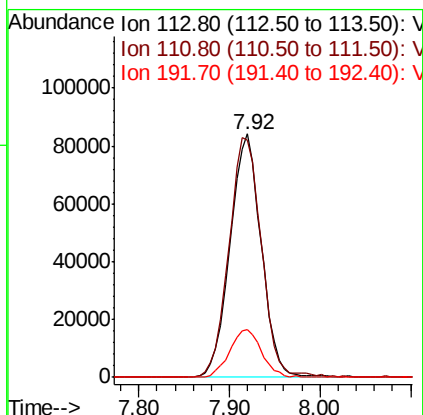
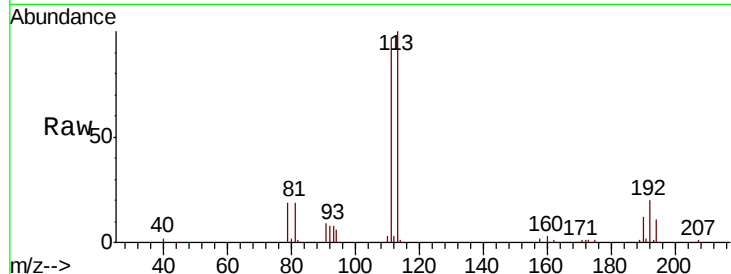




#35
 Dibromofluoromethane
 Concen: 48.745 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD067173.D
 Acq: 08 Oct 2020 02:03

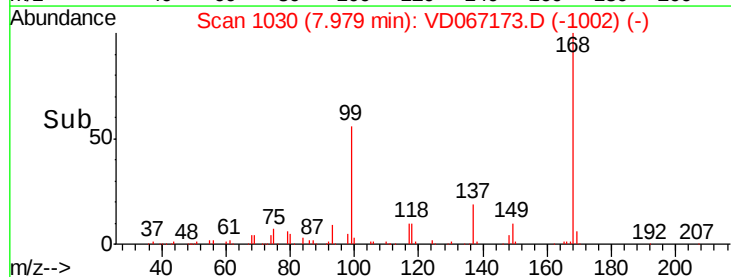
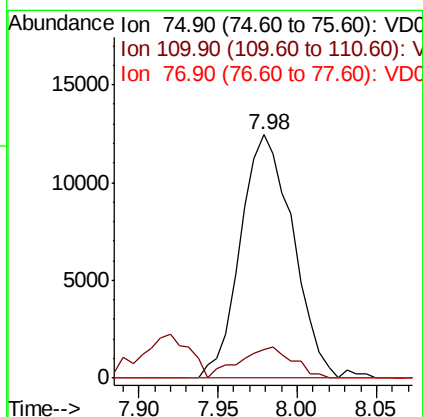
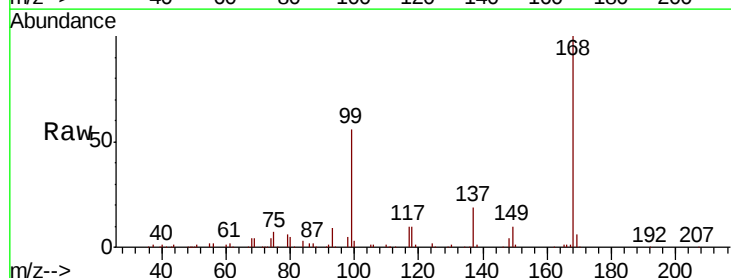
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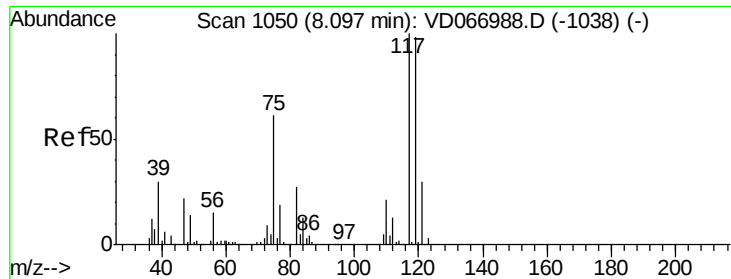
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.7	83.0	124.4
192	20.2	15.5	23.3



#36
 1,1-Dichloropropene
 Concen: 4.856 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD067173.D
 Acq: 08 Oct 2020 02:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	13.0	18.4	55.0#
77	0.0	24.8	37.2#

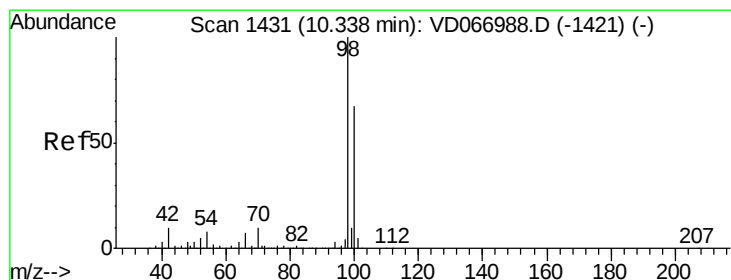
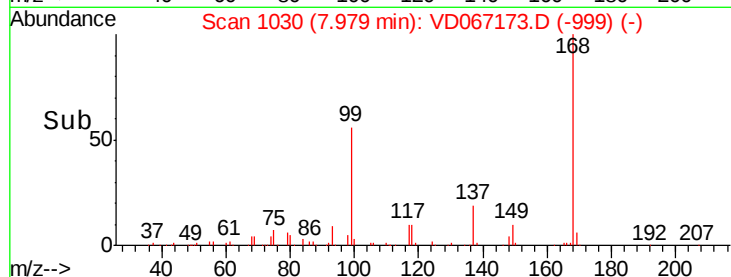
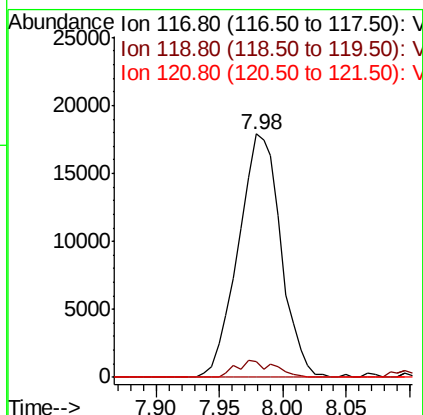
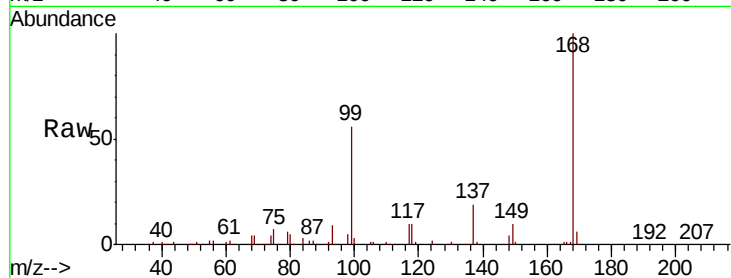




#38
Carbon Tetrachloride
Concen: 6.558 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.12 min
Lab File: VD067173.D
Acq: 08 Oct 2020 02:03

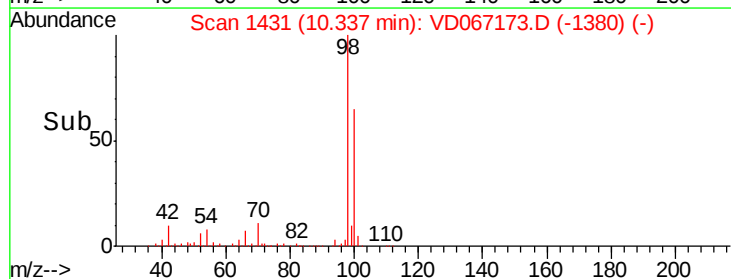
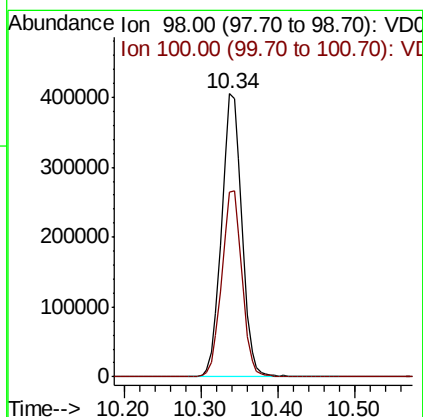
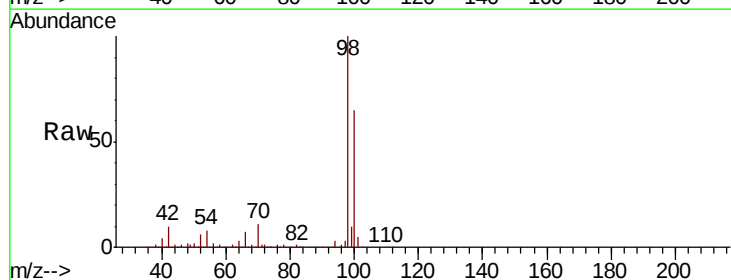
Instrument :
MSVOA_D
ClientSampleId :
PAV-B4-100620-DP

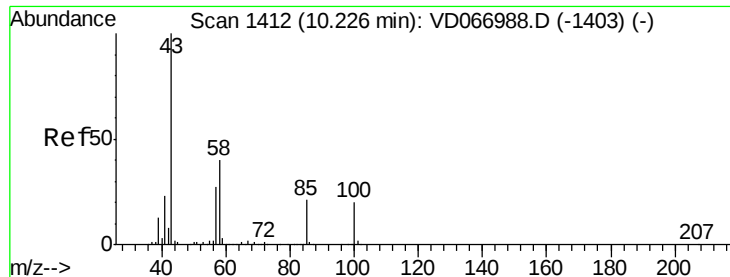
Tot Ion:117 Resp: 41651
Ion Ratio Lower Upper
117 100
119 6.7 78.7 118.1#
121 0.0 24.2 36.2#



#50
Toluene-d8
Concen: 49.473 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.00 min
Lab File: VD067173.D
Acq: 08 Oct 2020 02:03

Tgt Ion: 98 Resp: 743290
Ion Ratio Lower Upper
98 100
100 65.7 52.8 79.2





#51

4-Methyl-2-Pentanone

Concen: 1.596 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD067173.D

Acq: 08 Oct 2020 02:03

Instrument :

MSVOA_D

ClientSampleId :

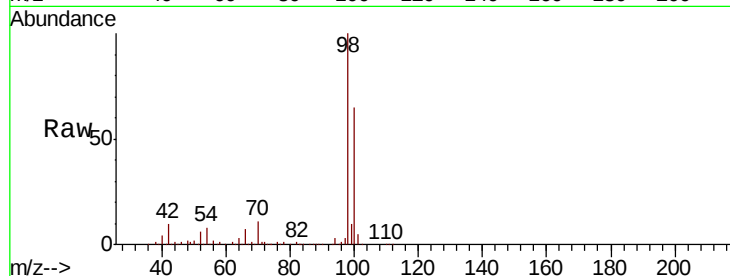
PAV-B4-100620-DP

Tot Ion: 43 Resp: 2979

Ion Ratio Lower Upper

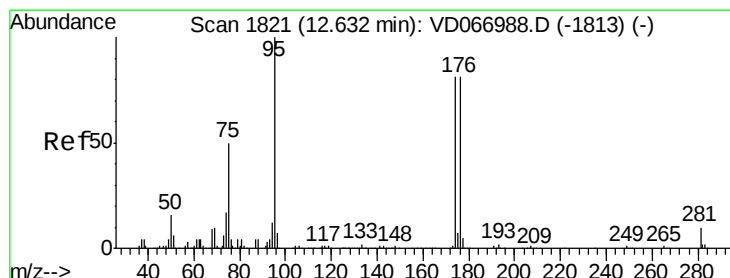
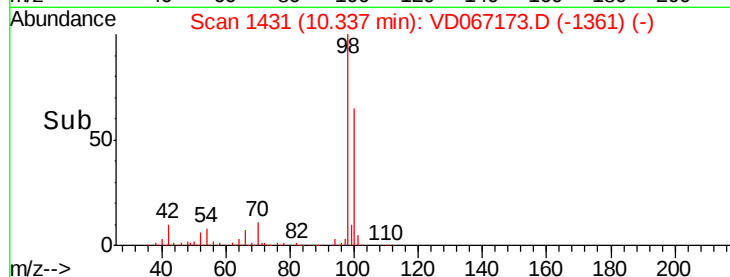
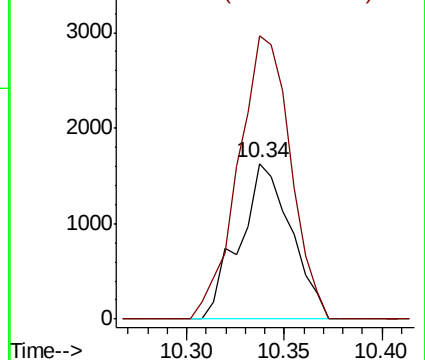
43 100

58 185.0 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: 47.233 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067173.D

Acq: 08 Oct 2020 02:03

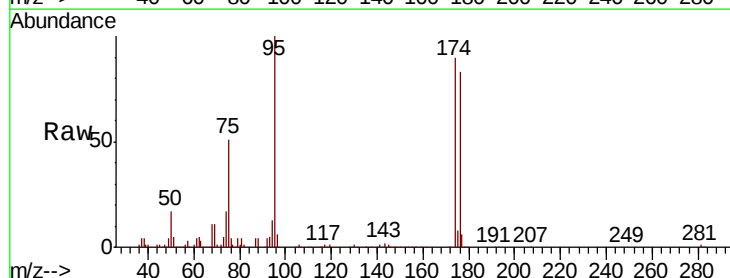
Tgt Ion: 95 Resp: 240902

Ion Ratio Lower Upper

95 100

174 88.9 0.0 167.6

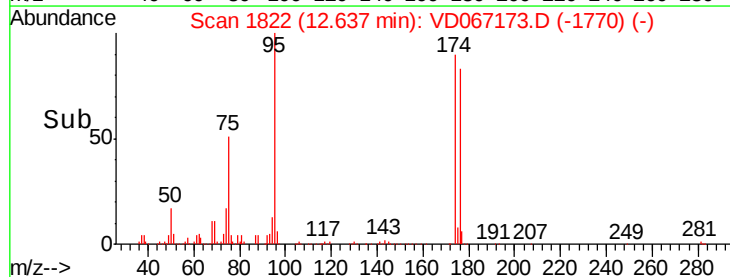
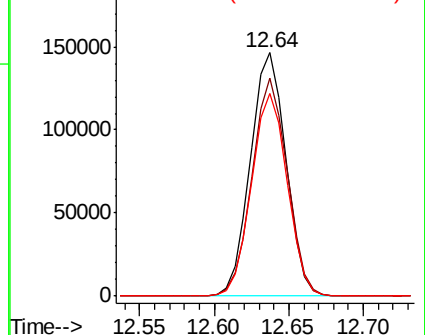
176 83.6 0.0 162.4

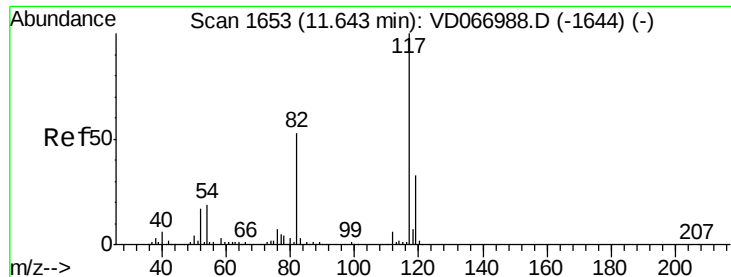


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

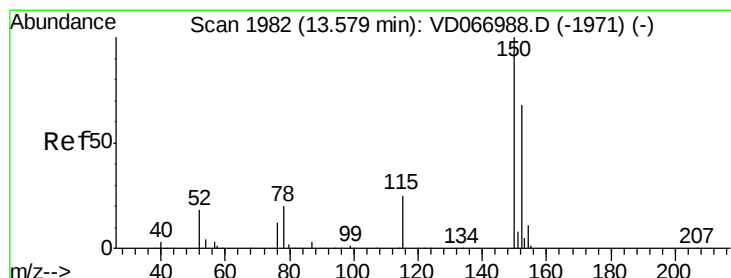
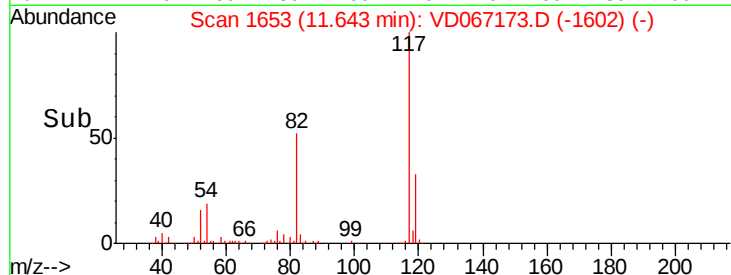
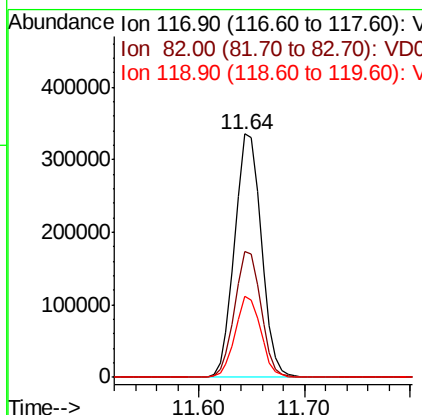
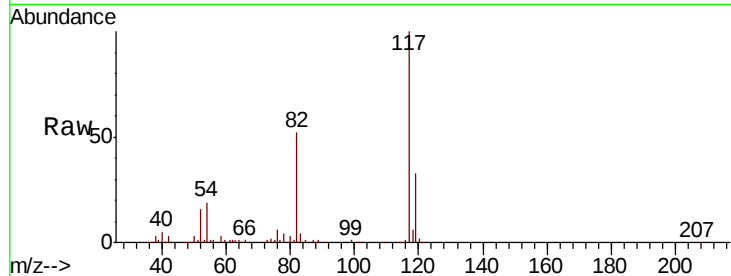




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD067173.D
Acq: 08 Oct 2020 02:03

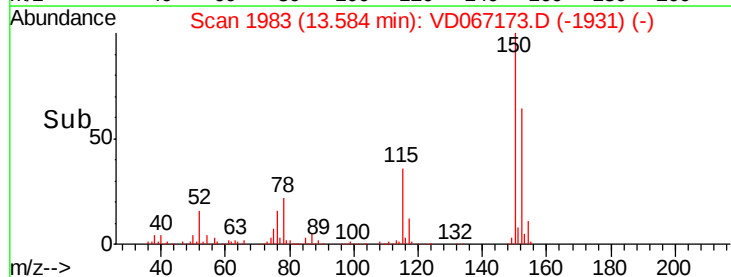
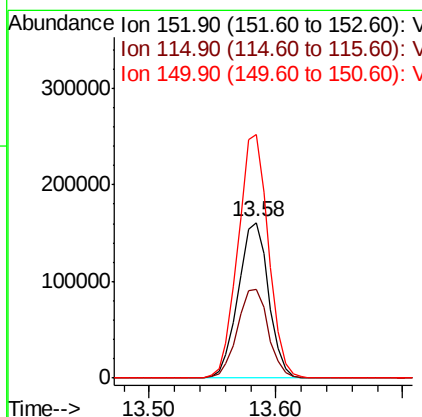
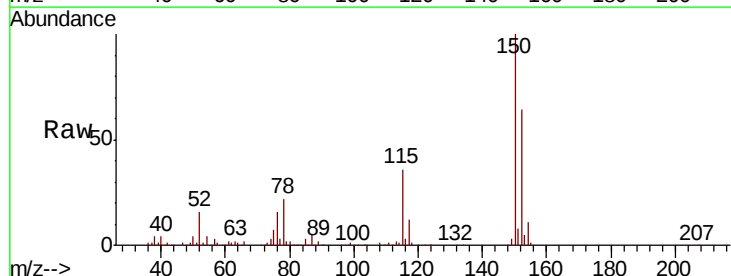
Instrument :
MSVOA_D
ClientSampleId :
PAV-B4-100620-DP

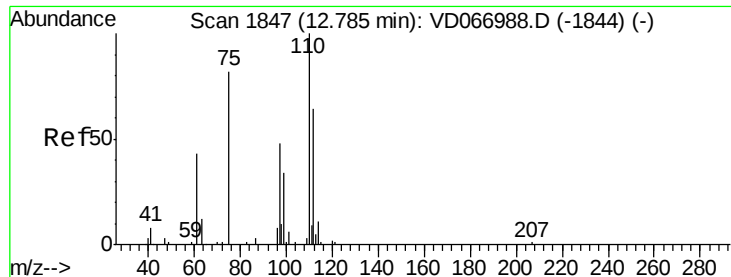
Tot Ion:117 Resp: 588142
Ion Ratio Lower Upper
117 100
82 51.8 42.6 63.8
119 33.1 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD067173.D
Acq: 08 Oct 2020 02:03

Tgt Ion:152 Resp: 266651
Ion Ratio Lower Upper
152 100
115 58.0 29.6 88.8
150 157.0 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 52.018 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067173.D

Acq: 08 Oct 2020 02:03

Instrument :

MSVOA_D

ClientSampleId :

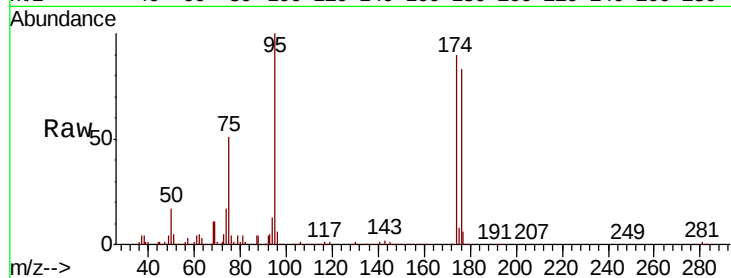
PAV-B4-100620-DP

Tot Ion: 75 Resp: 120818

Ion Ratio Lower Upper

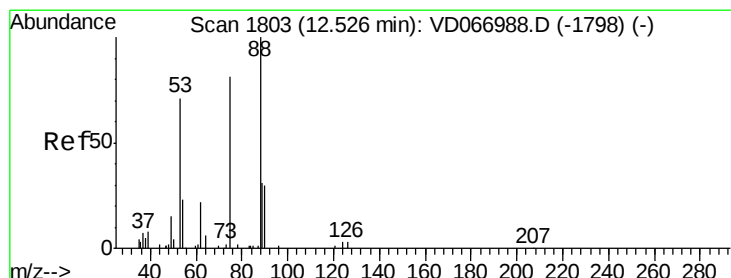
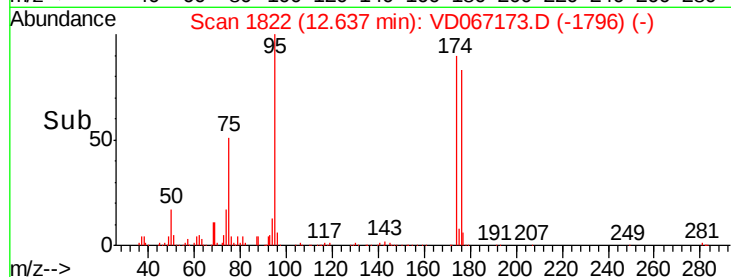
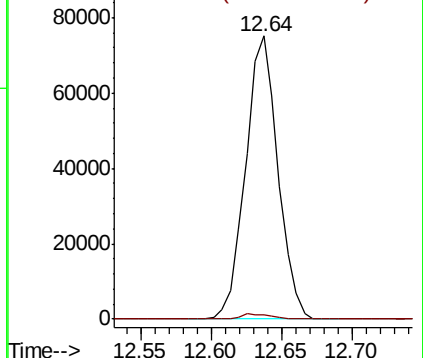
75 100

77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 129.687 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067173.D

Acq: 08 Oct 2020 02:03

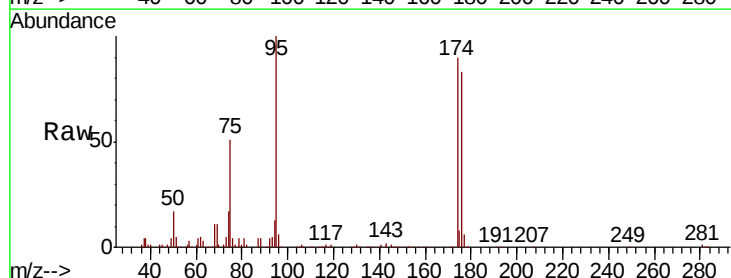
Tgt Ion: 75 Resp: 120818

Ion Ratio Lower Upper

75 100

53 0.1 73.8 110.6#

89 0.0 38.9 58.3#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

