

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100720\
 Data File : VD067160.D
 Acq On : 07 Oct 2020 18:46
 Operator : VA/SY
 Sample : L4282-03
 Misc : 1.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 68-89

Quant Time: Oct 08 07:25:21 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	157461	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	283630	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	197251	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	62958	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	113650	74.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	149.86%	
35) Dibromofluoromethane	7.92	113	111406	60.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	120.00%	
50) Toluene-d8	10.34	98	262873	38.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	77.70%	
62) 4-Bromofluorobenzene	12.64	95	66100	28.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	57.56%	

Target Compounds

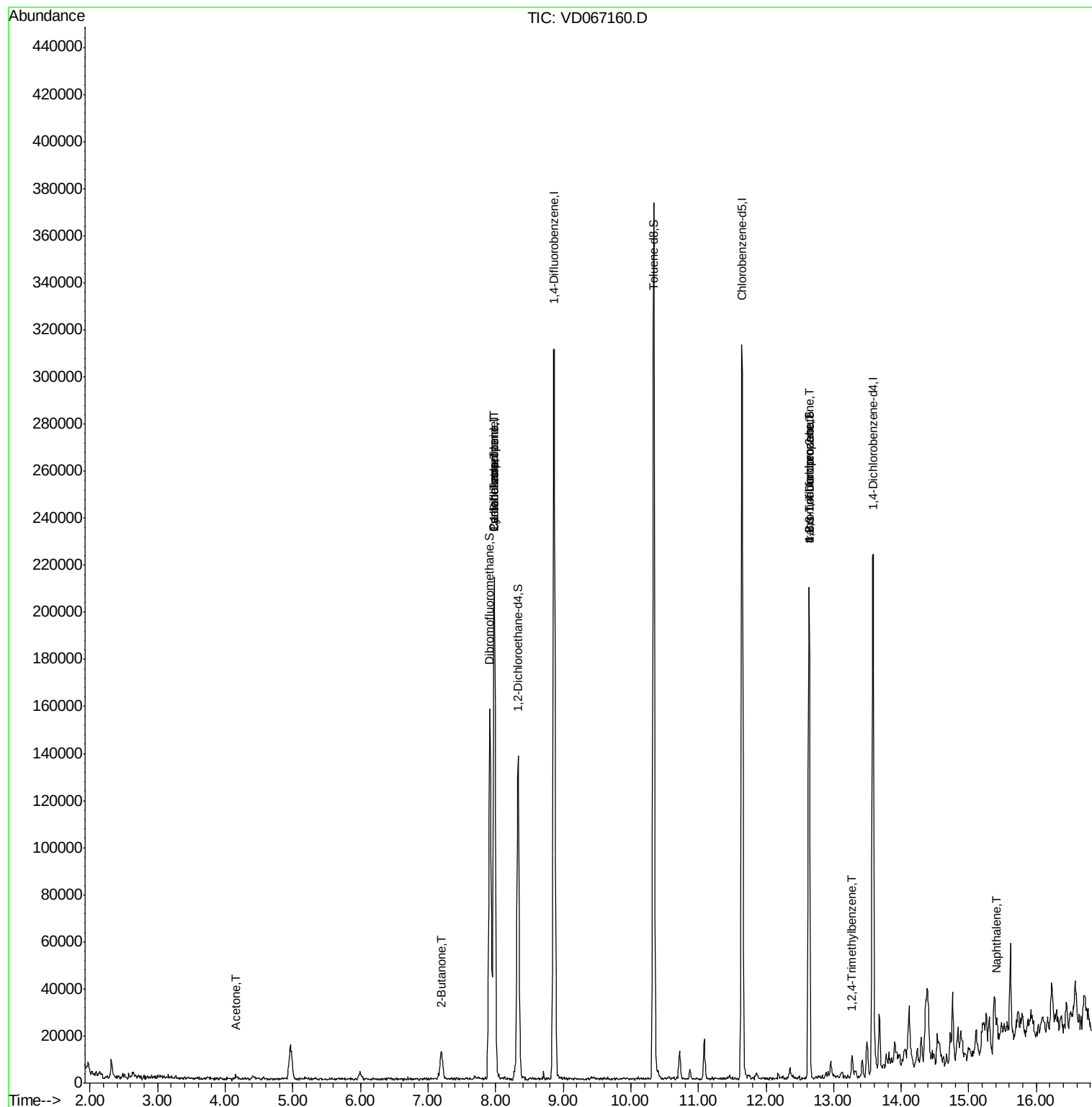
						Qvalue
2) Dichlorodifluoromethane	1.99	85	76	Below Cal	#	40
5) Bromomethane	2.78	94	169	Below Cal	#	3
11) Tert butyl alcohol	5.21	59	633	Below Cal	#	72
16) Acetone	4.16	43	2183	9.429	ug/l #	84
25) 2-Butanone	7.21	43	411	1.252	ug/l #	46
26) 2,2-Dichloropropane	7.19	77	879	Below Cal	#	53
31) Cyclohexane	7.98	56	3408	1.496	ug/l #	50
36) 1,1-Dichloropropene	7.98	75	11891	4.498	ug/l #	51
38) Carbon Tetrachloride	7.98	117	16235	5.676	ug/l #	15
76) 1,2,3-Trichloropropane	12.64	75	32886	59.969	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	32886	149.510	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.27	105	5203	1.443	ug/l	99
95) Naphthalene	15.41	128	7475	3.946	ug/l #	89

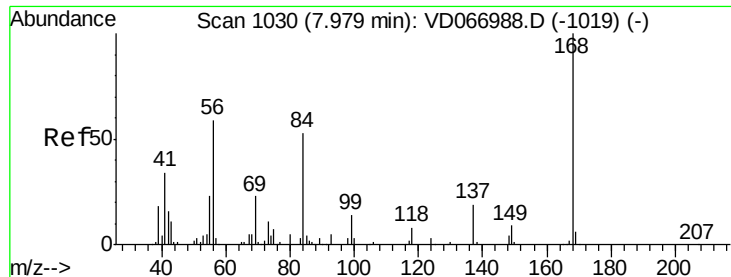
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VD067160.D

Acq: 07 Oct 2020 18:46

Instrument :

MSVOA_D

ClientSampleId :

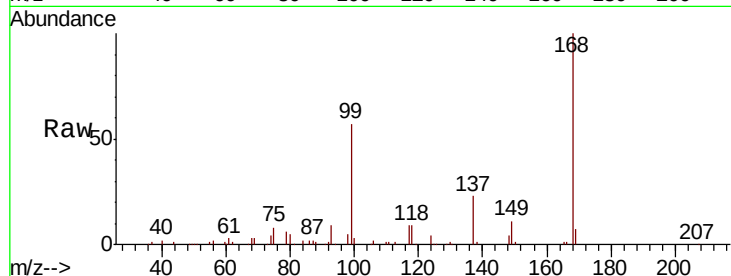
68-89

Tot Ion:168 Resp: 157461

Ion Ratio Lower Upper

168 100

99 57.1 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

80000

60000

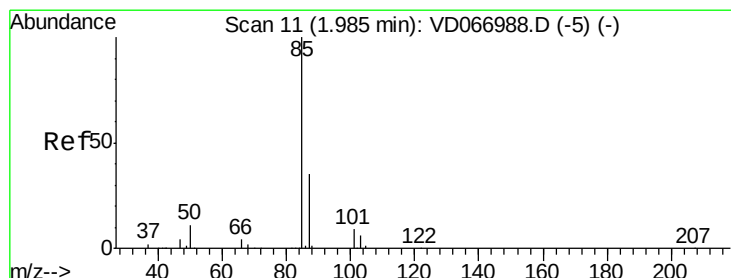
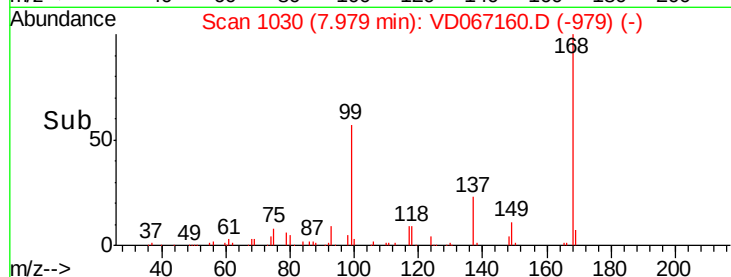
40000

20000

0

7.90 8.00 8.10

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067160.D

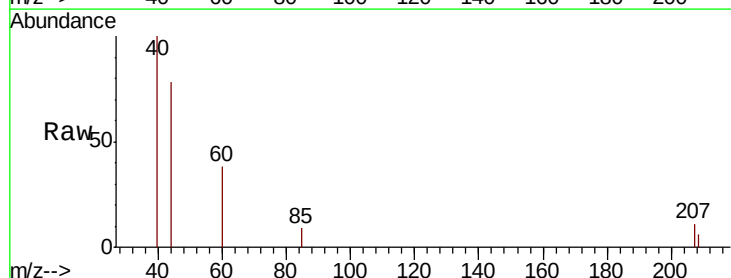
Acq: 07 Oct 2020 18:46

Tgt Ion: 85 Resp: 76

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

250

200

150

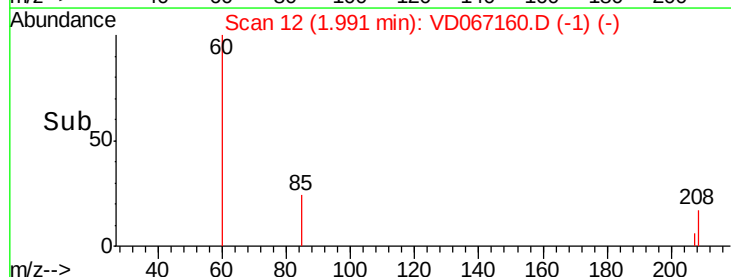
100

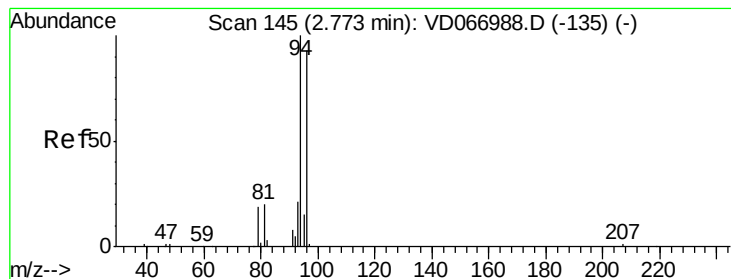
50

0

1.97 1.98 1.99 2.00 2.01

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.78 min Scan# 146

Delta R.T. 0.01 min

Lab File: VD067160.D

Acq: 07 Oct 2020 18:46

Instrument :

MSVOA_D

ClientSampleId :

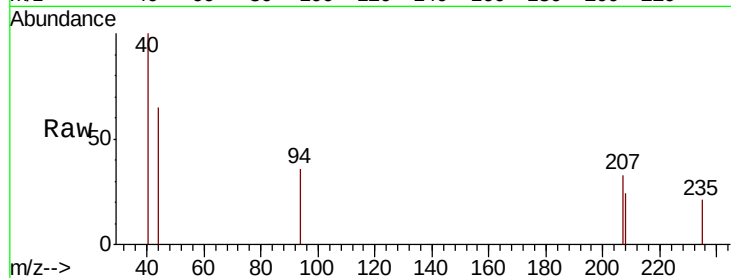
68-89

Tot Ion: 94 Resp: 169

Ion Ratio Lower Upper

94 100

96 0.0 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.78

300

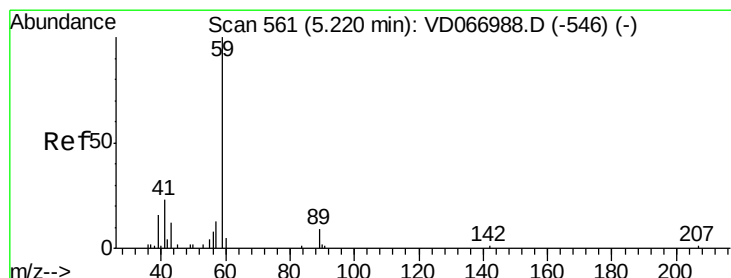
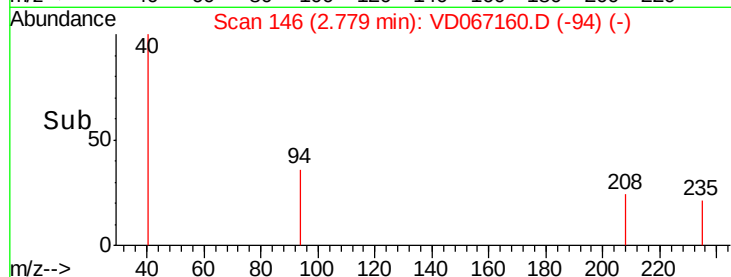
200

100

0

2.76 2.78 2.80

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 560

Delta R.T. -0.01 min

Lab File: VD067160.D

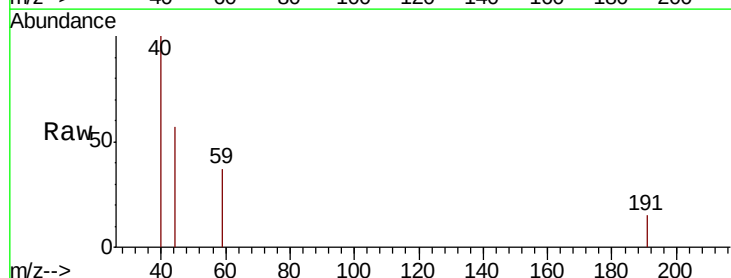
Acq: 07 Oct 2020 18:46

Tgt Ion: 59 Resp: 633

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

5.21

400

300

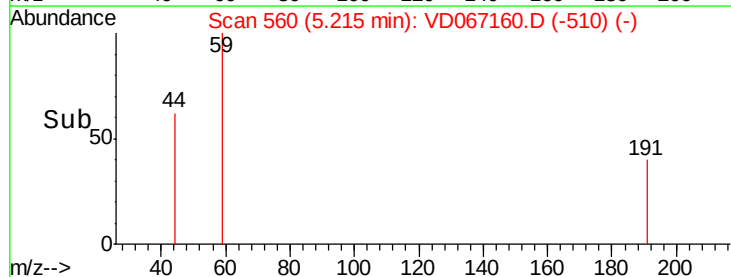
200

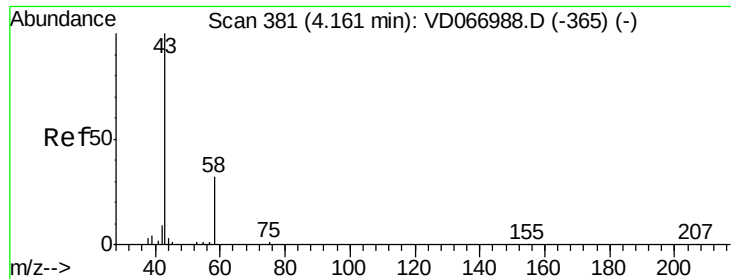
100

0

5.18 5.20 5.22 5.24 5.26

Time-->





#16

Acetone

Concen: 9.429 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD067160.D

Acq: 07 Oct 2020 18:46

Instrument :

MSVOA_D

ClientSampleId :

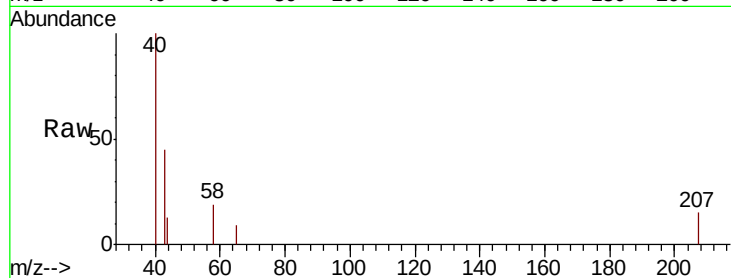
68-89

Tot Ion: 43 Resp: 2183

Ion Ratio Lower Upper

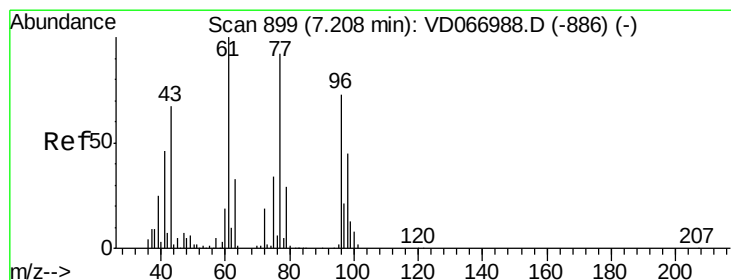
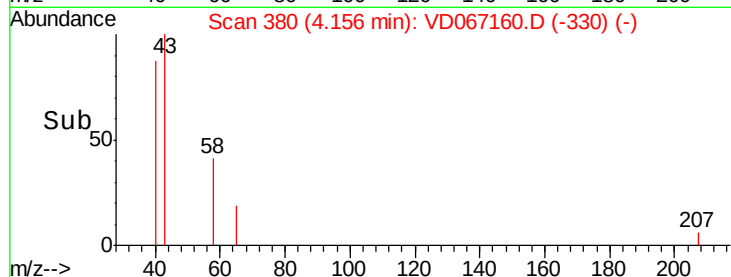
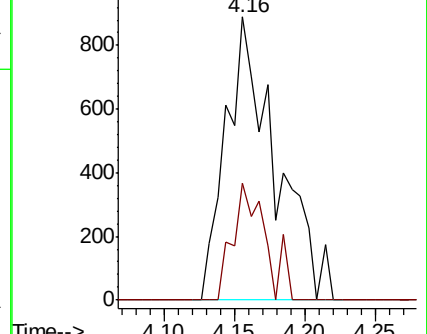
43 100

58 41.2 25.9 38.9#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#25

2-Butanone

Concen: 1.252 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD067160.D

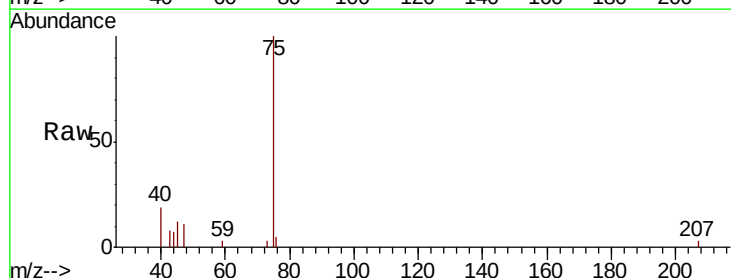
Acq: 07 Oct 2020 18:46

Tgt Ion: 43 Resp: 411

Ion Ratio Lower Upper

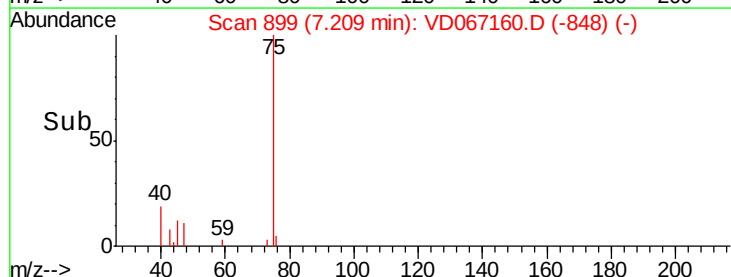
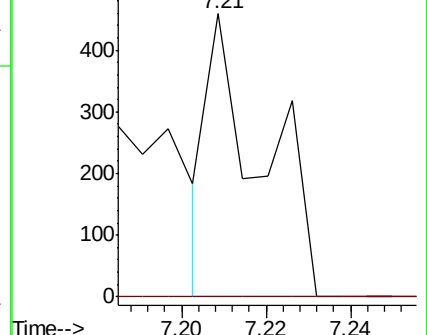
43 100

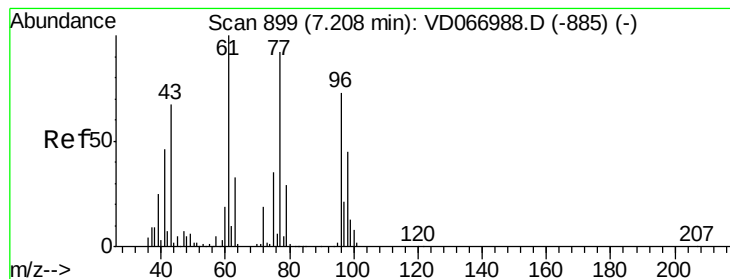
72 0.0 22.8 34.2#



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: 7.19 min Scan# 896

Delta R.T. -0.02 min

Lab File: VD067160.D

Acq: 07 Oct 2020 18:46

Instrument :

MSVOA_D

ClientSampled :

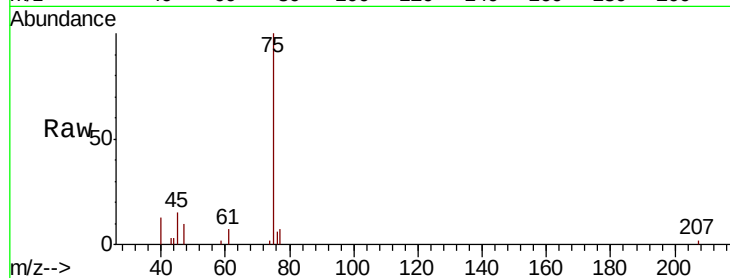
68-89

Tot Ion: 77 Resp: 879

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

600

500

400

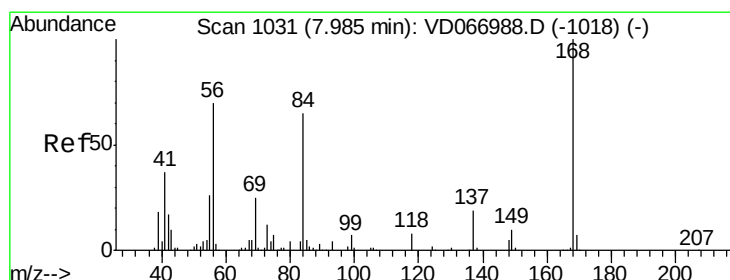
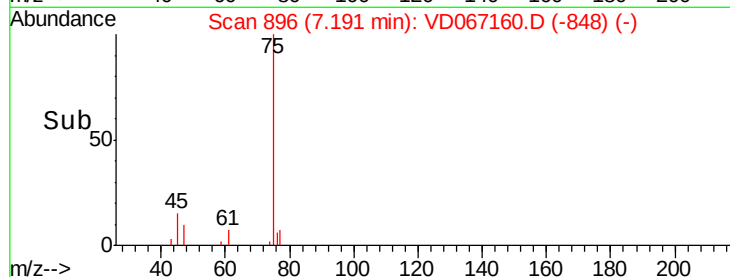
300

200

100

0

Time-->



#31

Cyclohexane

Concen: 1.496 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067160.D

Acq: 07 Oct 2020 18:46

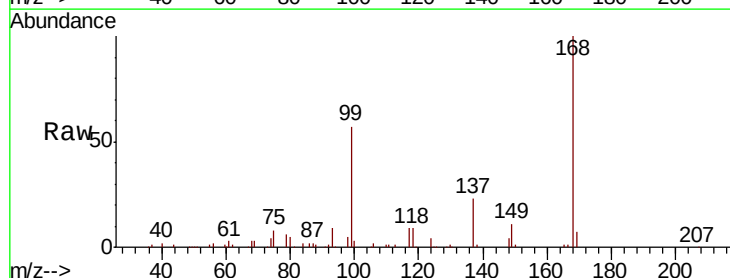
Tgt Ion: 56 Resp: 3408

Ion Ratio Lower Upper

56 100

69 117.6 29.0 43.6#

84 107.4 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

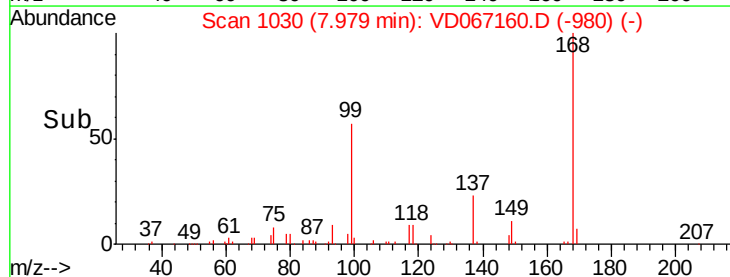
3000

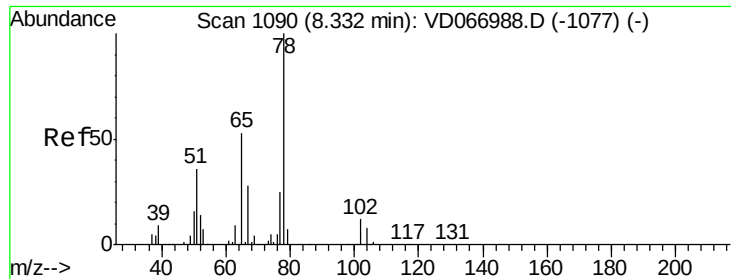
2000

1000

0

Time-->

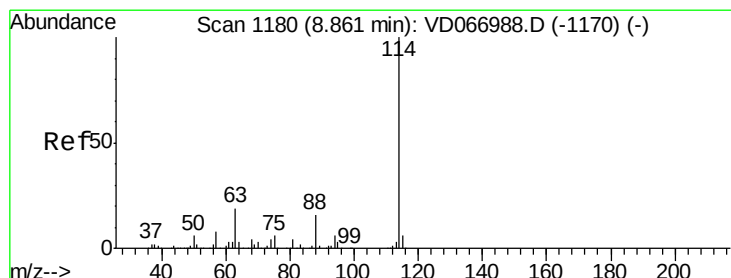
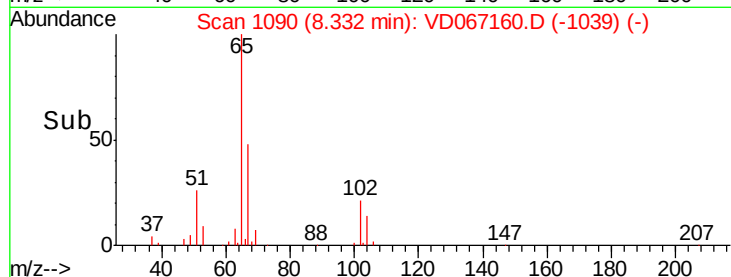
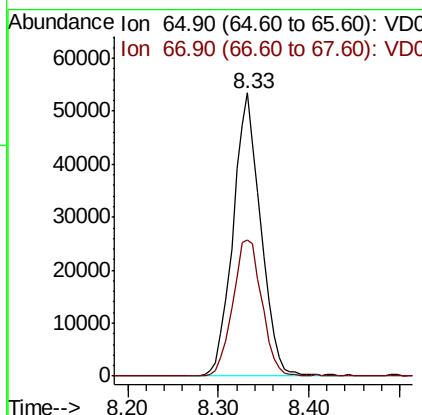
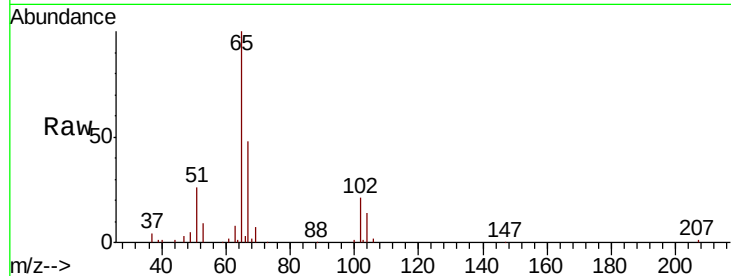




#33
 1,2-Dichloroethane-d4
 Concen: 74.935 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD067160.D
 Acq: 07 Oct 2020 18:46

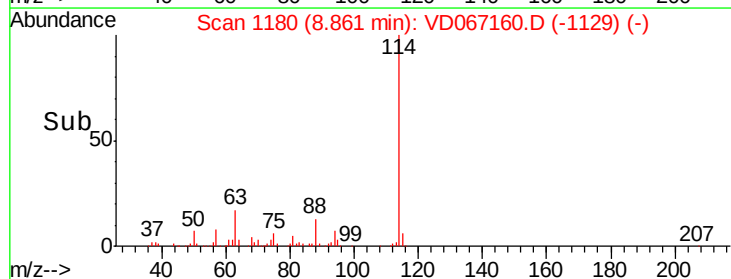
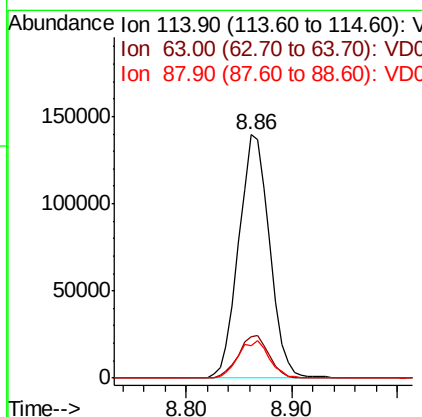
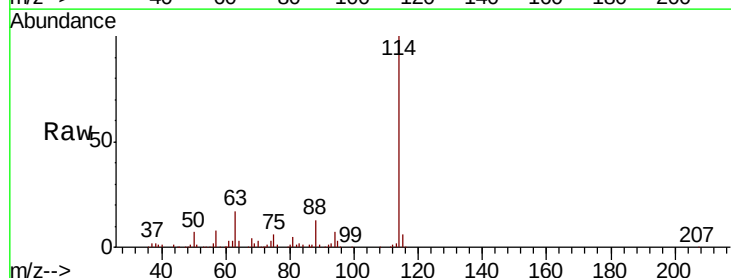
Instrument :
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 ClientSampleId :
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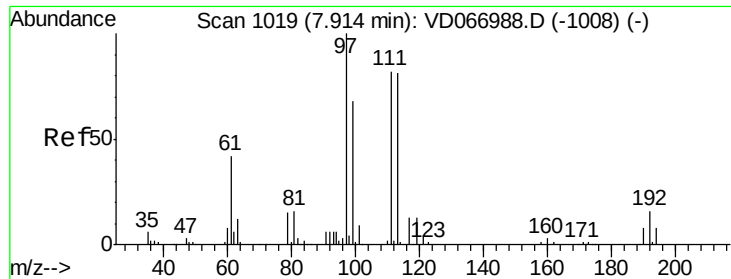
Tot Ion: 65 Resp: 113650
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. 0.00 min
 Lab File: VD067160.D
 Acq: 07 Oct 2020 18:46

Tgt Ion: 114 Resp: 283630
 Ion Ratio Lower Upper
 114 100
 63 16.9 0.0 38.4
 88 13.2 0.0 31.2

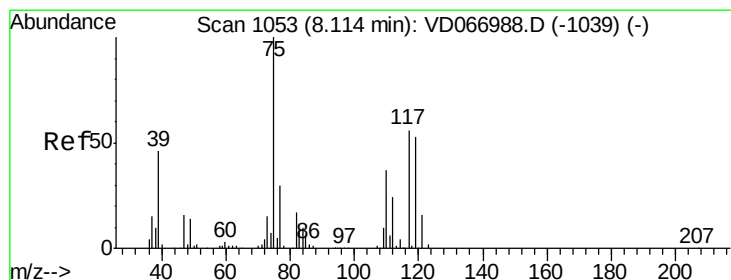
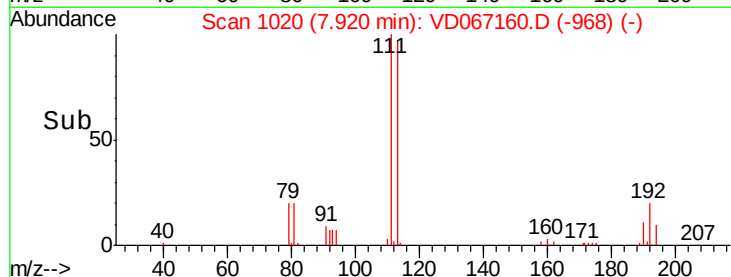
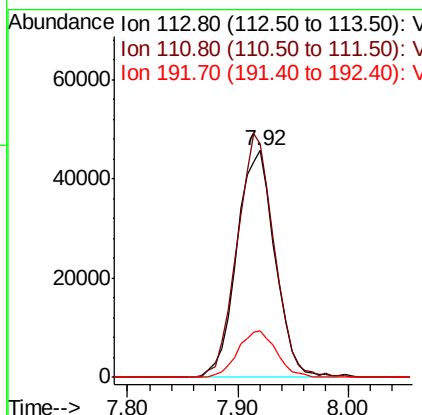
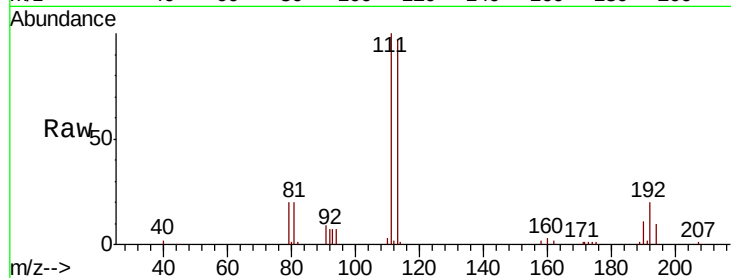




#35
Dibromofluoromethane
Concen: 59.997 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD067160.D
Acq: 07 Oct 2020 18:46

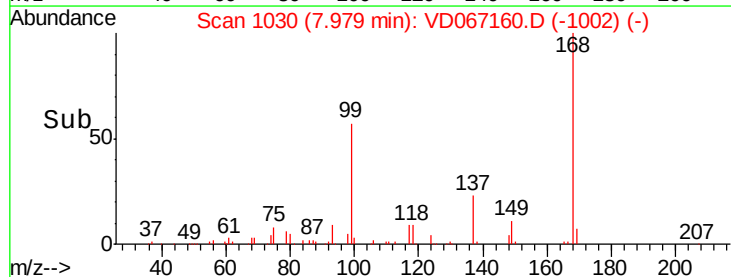
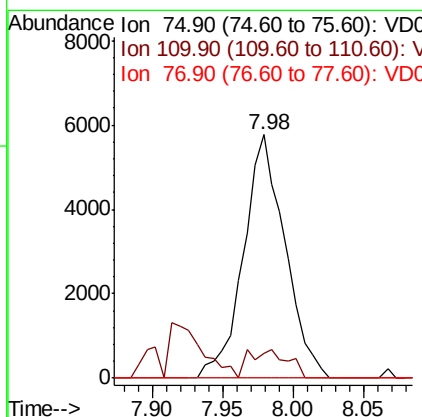
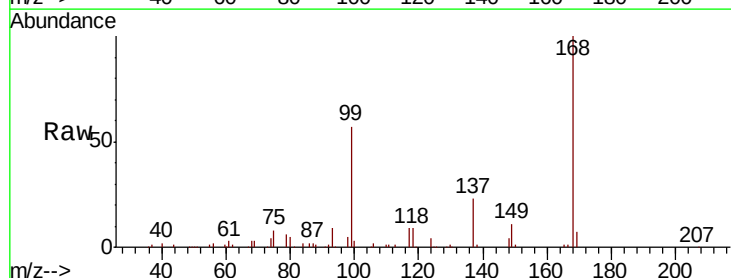
Instrument :
MSVOA_D
ClientSampled :
68-89

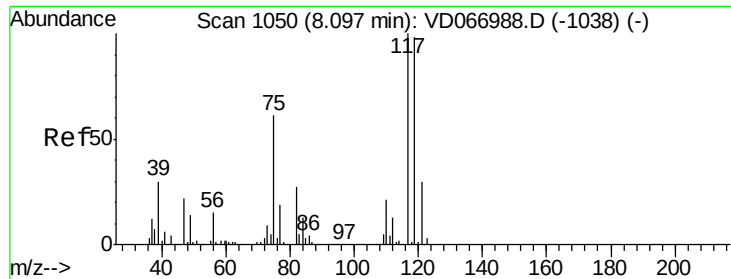
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.8	83.0	124.4
192	20.7	15.5	23.3



#36
1,1-Dichloropropene
Concen: 4.498 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.14 min
Lab File: VD067160.D
Acq: 07 Oct 2020 18:46

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.0	18.4	55.0#
77	0.0	24.8	37.2#

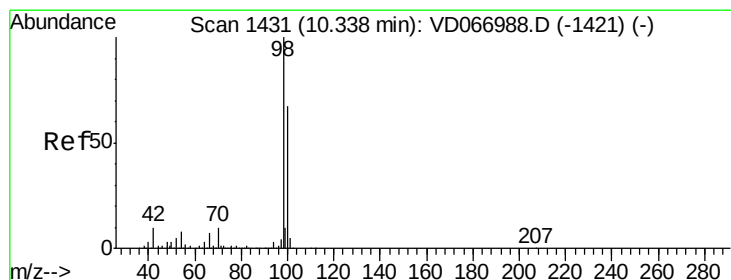
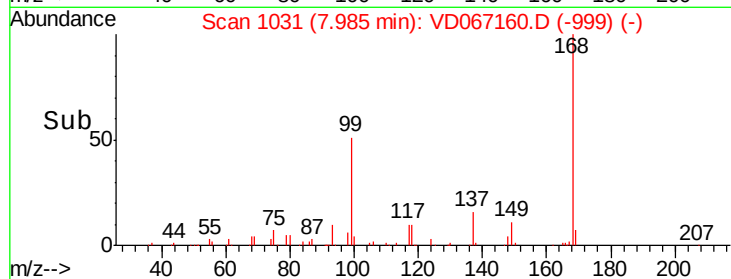
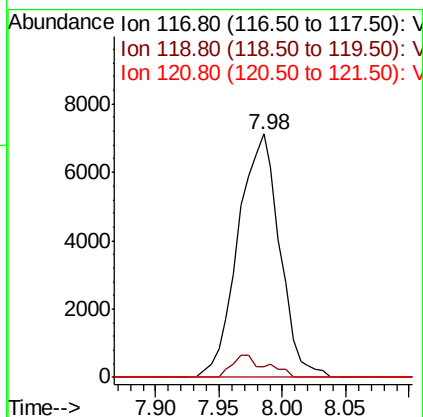
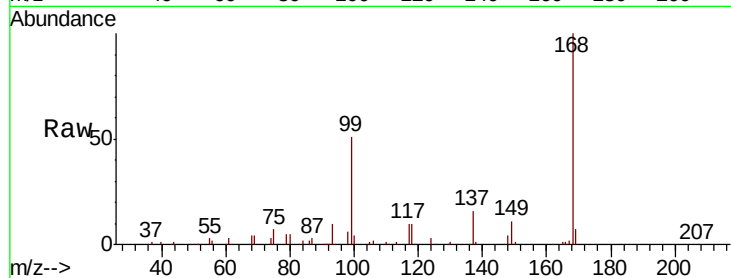




#38
Carbon Tetrachloride
Concen: 5.676 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.11 min
Lab File: VD067160.D
Acq: 07 Oct 2020 18:46

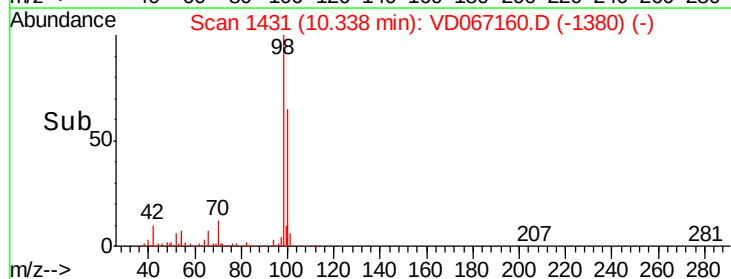
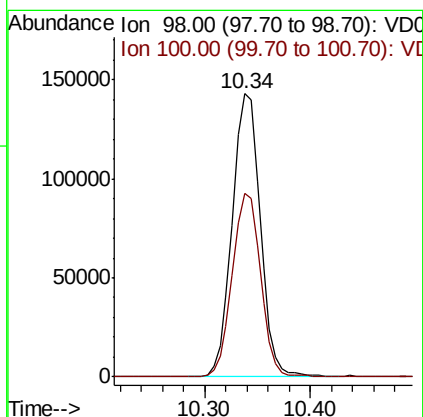
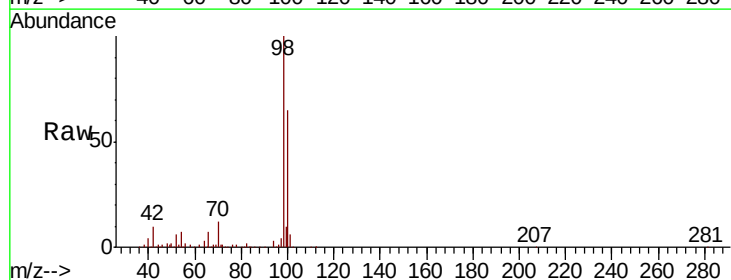
Instrument :
MSVOA_D
ClientSampleId :
68-89

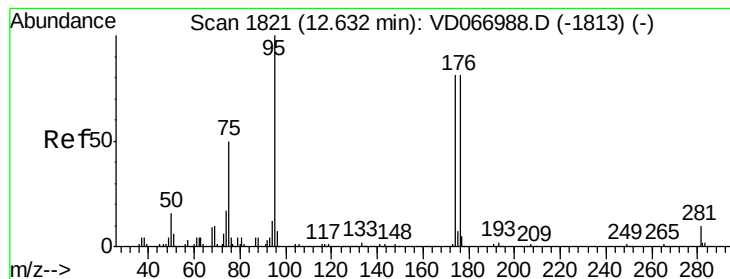
Tot Ion:117 Resp: 16235
Ion Ratio Lower Upper
117 100
119 4.6 78.7 118.1#
121 0.0 24.2 36.2#



#50
Toluene-d8
Concen: 38.851 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD067160.D
Acq: 07 Oct 2020 18:46

Tgt Ion: 98 Resp: 262873
Ion Ratio Lower Upper
98 100
100 65.4 52.8 79.2





#62

4-Bromofluorobenzene

Concen: 28.777 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.01 min

Lab File: VD067160.D

Acq: 07 Oct 2020 18:46

Instrument :

MSVOA_D

ClientSampleId :

68-89

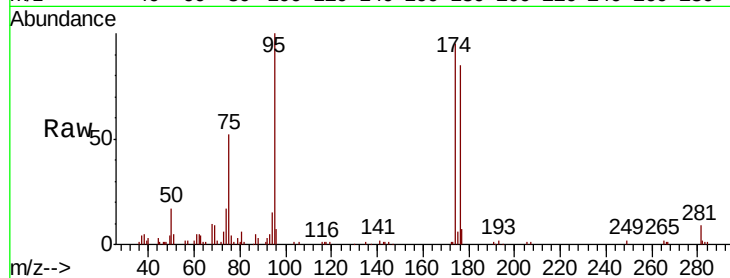
Tot Ion: 95 Resp: 66100

Ion Ratio Lower Upper

95 100

174 87.4 0.0 167.6

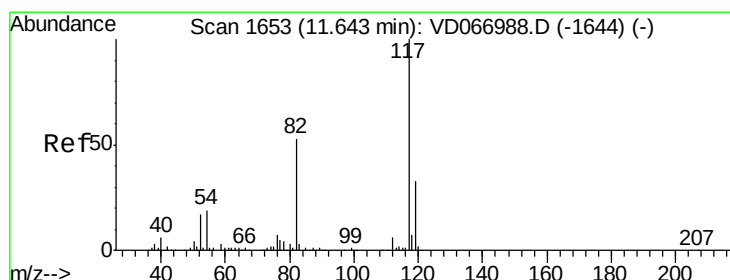
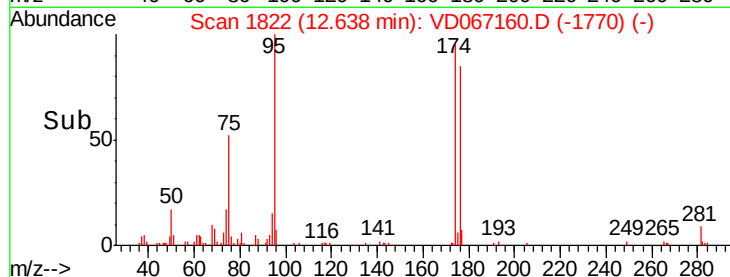
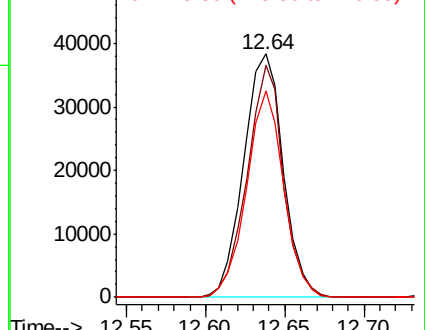
176 80.3 0.0 162.4



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: 11.64 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VD067160.D

Acq: 07 Oct 2020 18:46

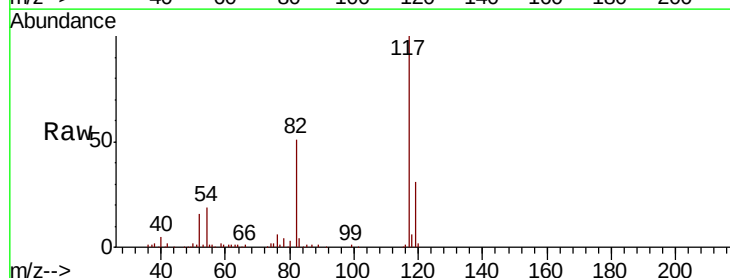
Tgt Ion: 117 Resp: 197251

Ion Ratio Lower Upper

117 100

82 51.2 42.6 63.8

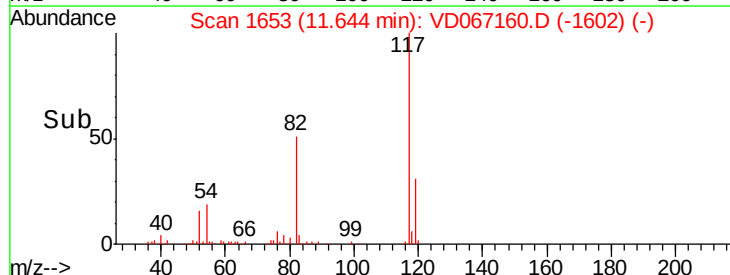
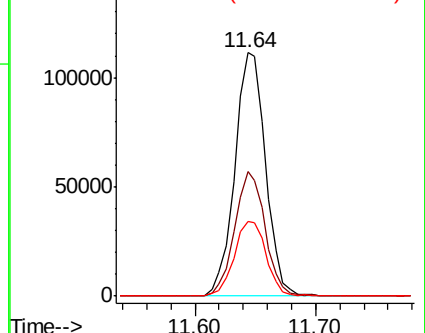
119 30.9 26.3 39.5

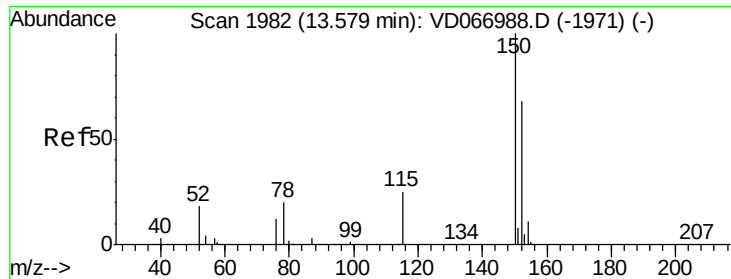


Abundance Ion 116.90 (116.60 to 117.60): V

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: VD067160.D

Acq: 07 Oct 2020 18:46

Instrument :

MSVOA_D

ClientSampleId :

68-89

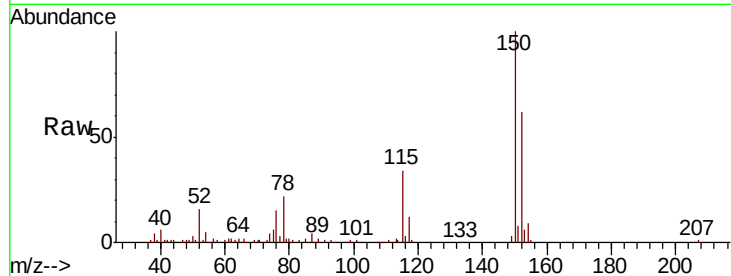
Tot Ion:152 Resp: 62958

Ion Ratio Lower Upper

152 100

115 60.2 29.6 88.8

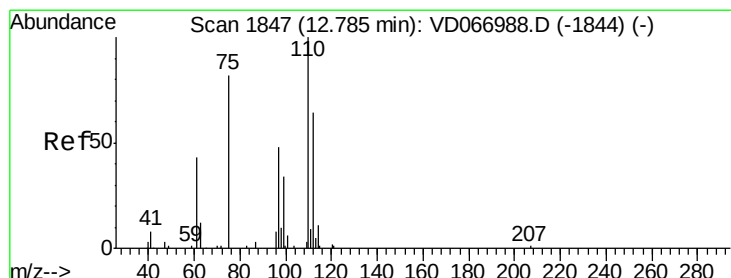
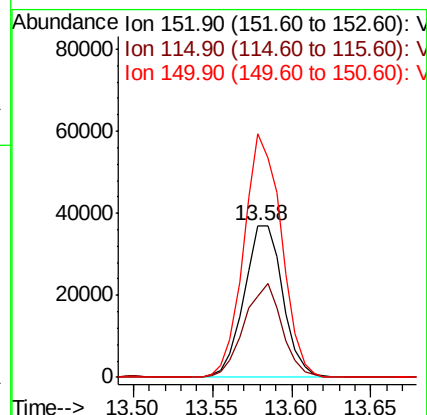
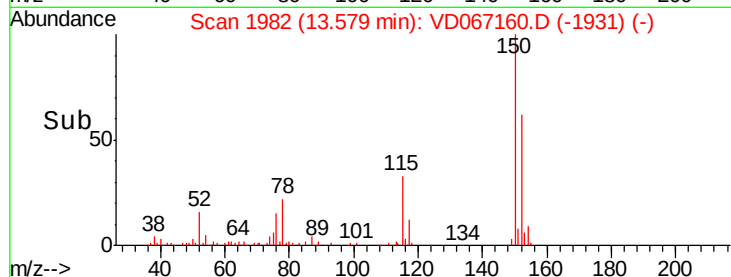
150 155.8 0.0 344.8



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: 59.969 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067160.D

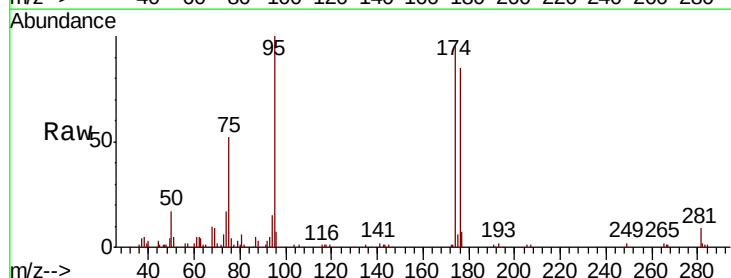
Acq: 07 Oct 2020 18:46

Tgt Ion: 75 Resp: 32886

Ion Ratio Lower Upper

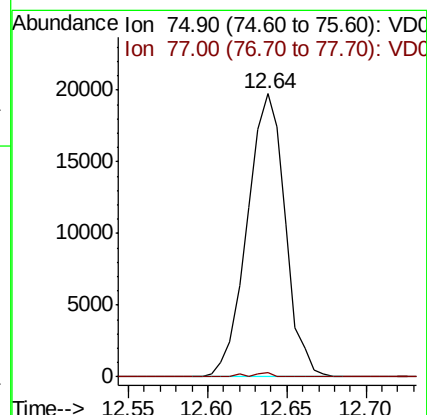
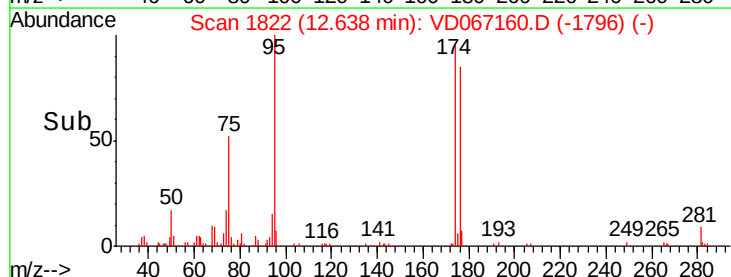
75 100

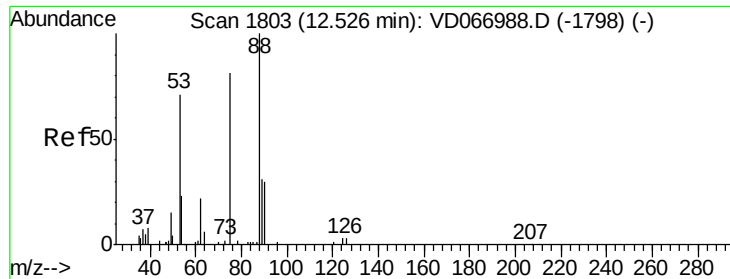
77 0.8 0.0 0.0#



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: 149.510 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067160.D

Acq: 07 Oct 2020 18:46

Instrument :

MSVOA_D

ClientSampleId :

68-89

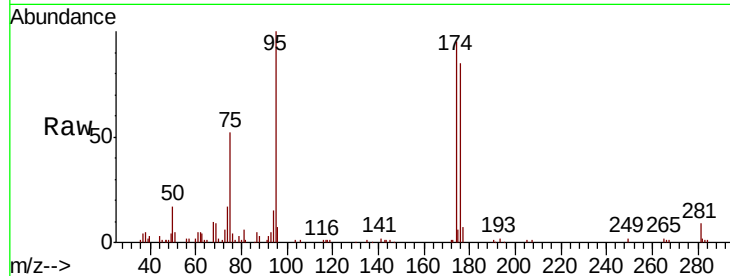
Tot Ion: 75 Resp: 32886

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

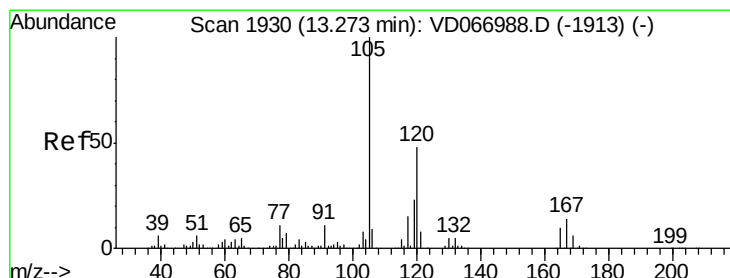
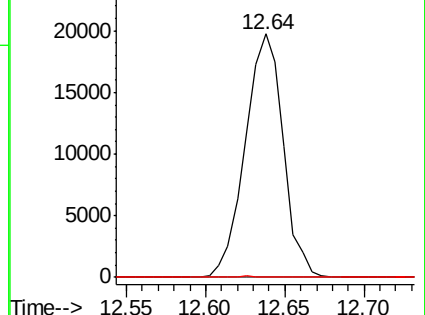
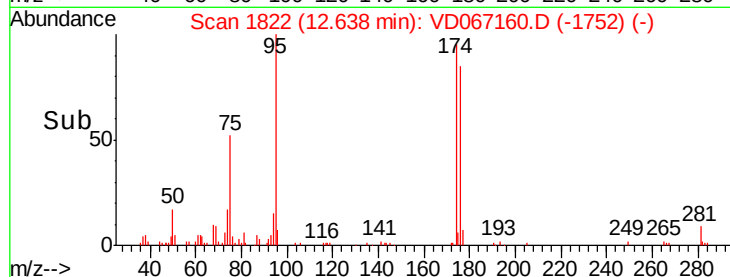
89 0.2 38.9 58.3#



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



#84

1,2,4-Trimethylbenzene

Concen: 1.443 ug/l

RT: 13.27 min Scan# 1930

Delta R.T. 0.00 min

Lab File: VD067160.D

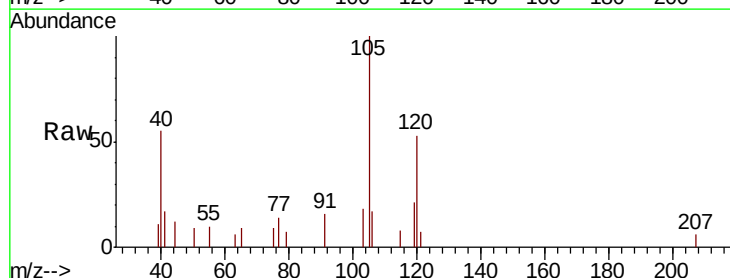
Acq: 07 Oct 2020 18:46

Tgt Ion:105 Resp: 5203

Ion Ratio Lower Upper

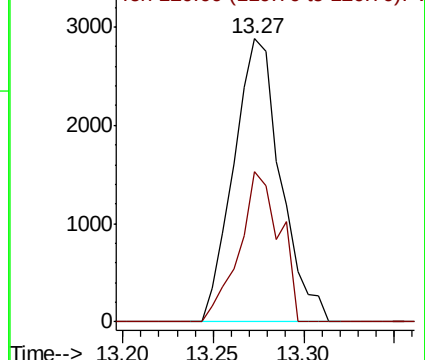
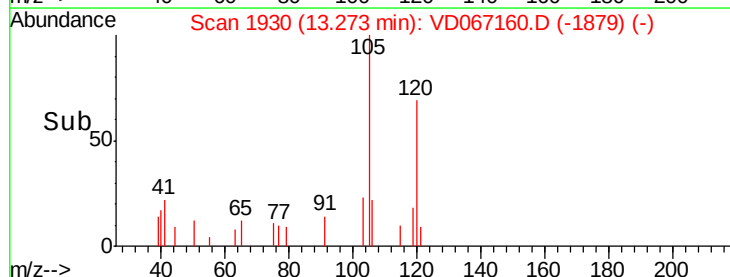
105 100

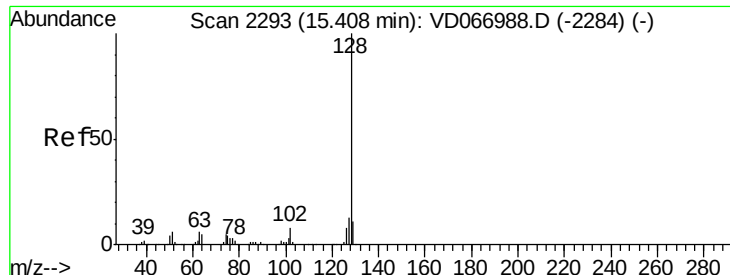
120 45.6 23.3 69.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 3.946 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.01 min

Lab File: VD067160.D

Acq: 07 Oct 2020 18:46

Instrument :

MSVOA_D

ClientSampleId :

68-89

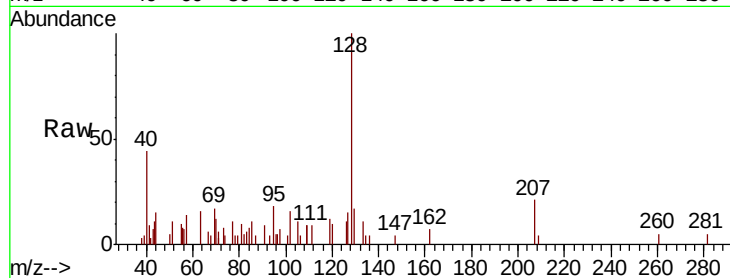
Tot Ion:128 Resp: 7475

Ion Ratio Lower Upper

128 100

127 18.3 10.3 15.5#

129 13.8 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

