

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100120\
 Data File : VD067023.D
 Acq On : 02 Oct 2020 06:33
 Operator : VA/SY
 Sample : L4213-06
 Misc : 5.08G/5.00ml/MSVOA D/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-16(7-9)

Quant Time: Oct 02 06:57:54 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	453476	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	771909	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	712070	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	330586	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	230841	52.85	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.91	113	252544	49.97	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.34	98	914053	49.64	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.63	95	297000	47.51	ug/l	0.00
Spiked Amount						

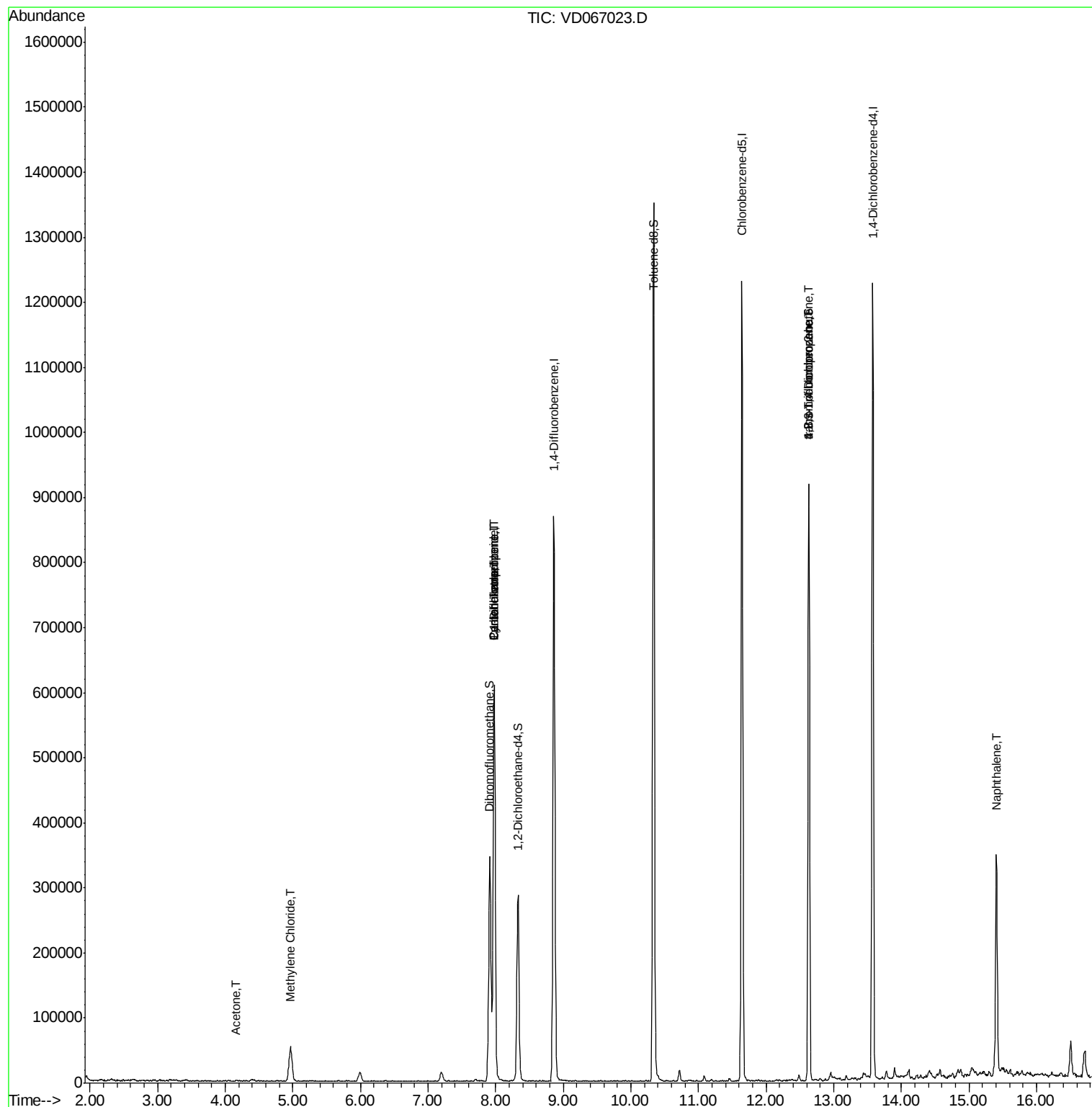
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	503	Below Cal	#	40
5) Bromomethane	2.76	94	156	Below Cal	#	80
11) Tert butyl alcohol	5.21	59	126	Below Cal	#	72
16) Acetone	4.16	43	2219	3.328	ug/l	97
20) Methylene Chloride	4.96	84	42472	1.991	ug/l #	93
26) 2,2-Dichloropropane	7.20	77	678	Below Cal	#	53
31) Cyclohexane	7.98	56	9028	1.376	ug/l #	11
36) 1,1-Dichloropropene	7.98	75	35755	4.969	ug/l #	49
38) Carbon Tetrachloride	7.98	117	46972	6.034	ug/l #	15
76) 1,2,3-Trichloropropane	12.63	75	150065	52.115	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	150065	129.929	ug/l #	12
95) Naphthalene	15.41	128	296005	29.756	ug/l	99

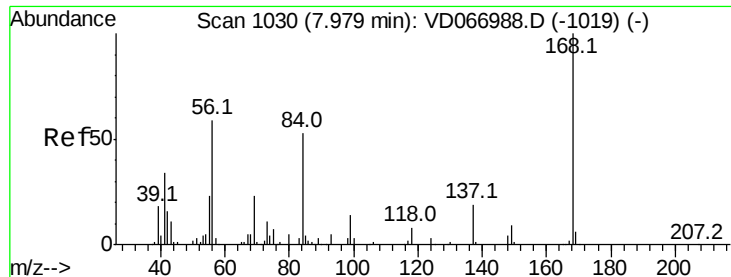
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD100120\
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Operator : VA/SY
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ClientSampleId :
B-16(7-9)

Quant Time: Oct 02 06:57:54 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D100120S.M
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: VD067023.D

Acq: 02 Oct 2020 06:33

Instrument :

MSVOA_D

ClientSampleId :

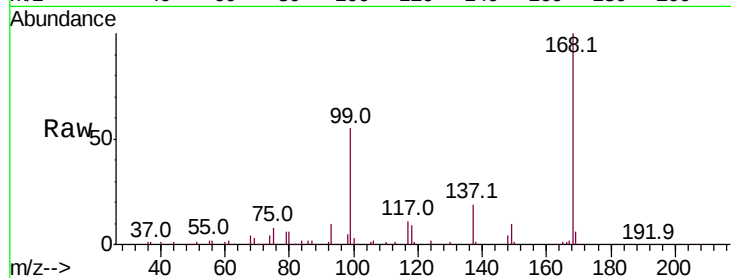
B-16(7-9)

Tot Ion:168 Resp: 453476

Ion Ratio Lower Upper

168 100

99 55.0 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

200000

150000

100000

50000

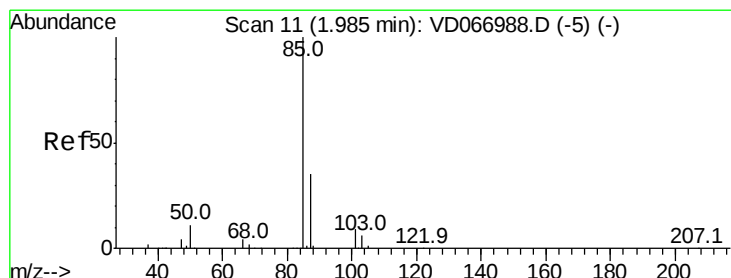
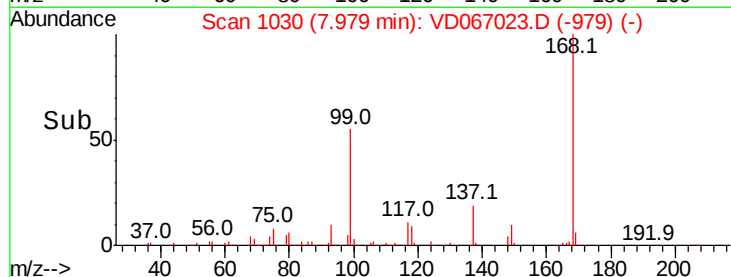
0

Time-->

7.90

8.00

8.10



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067023.D

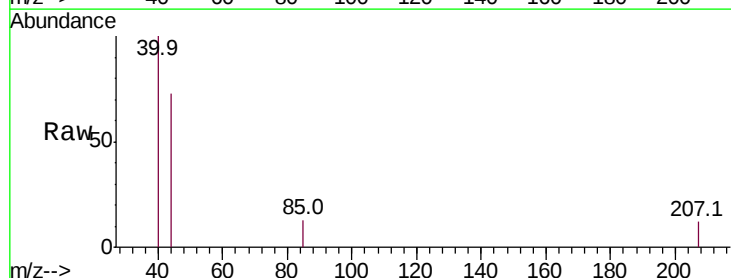
Acq: 02 Oct 2020 06:33

Tgt Ion: 85 Resp: 503

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

400

300

200

100

0

Time-->

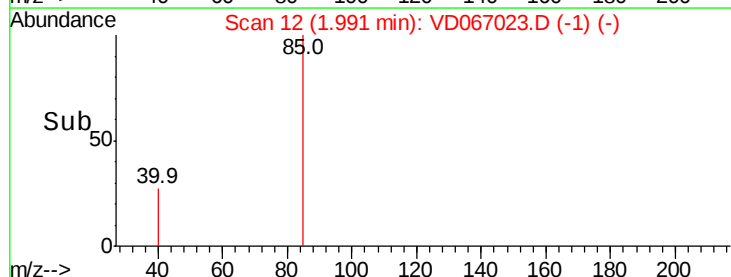
1.94

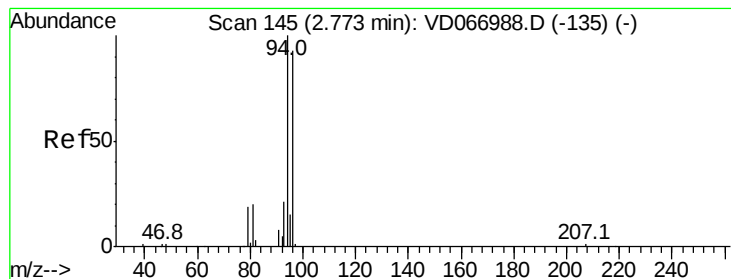
1.96

1.98

2.00

2.02





#5

Bromomethane

Concen: Below Cal

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD067023.D

Acq: 02 Oct 2020 06:33

Instrument :

MSVOA_D

ClientSampleId :

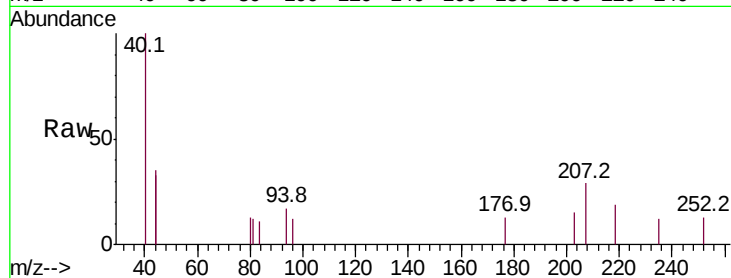
B-16(7-9)

Tot Ion: 94 Resp: 156

Ion Ratio Lower Upper

94 100

96 73.6 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

500

400

300

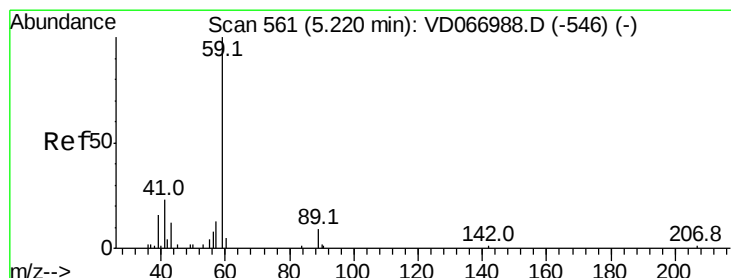
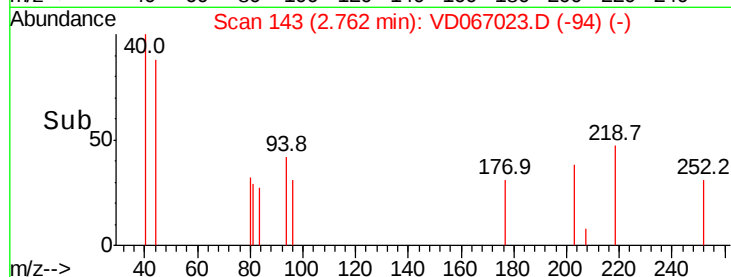
200

100

0

2.74 2.75 2.76 2.77

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.21 min Scan# 560

Delta R.T. -0.01 min

Lab File: VD067023.D

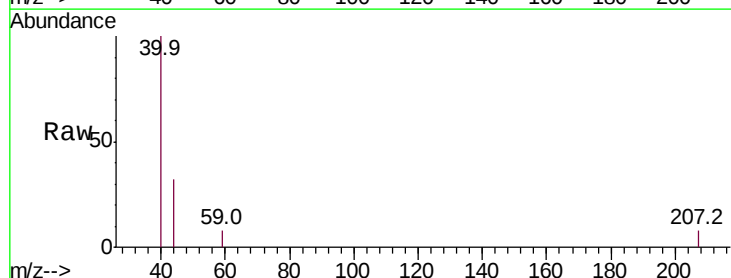
Acq: 02 Oct 2020 06:33

Tgt Ion: 59 Resp: 126

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

250

200

150

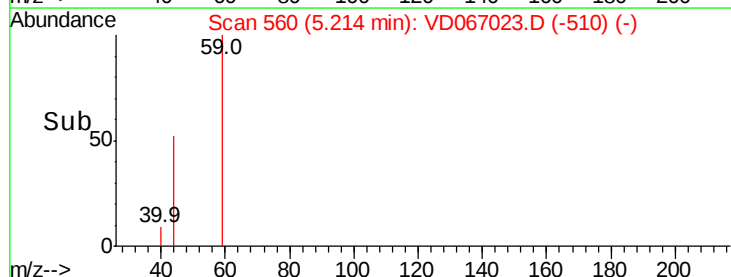
100

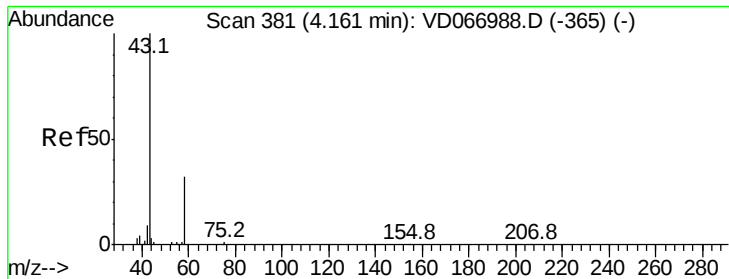
50

0

5.20 5.21 5.22 5.23

Time-->





#16

Acetone

Concen: 3.328 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.00 min

Lab File: VD067023.D

Acq: 02 Oct 2020 06:33

Instrument :

MSVOA_D

ClientSampleId :

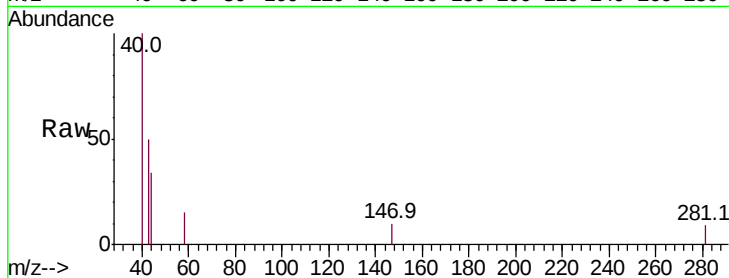
B-16(7-9)

Tot Ion: 43 Resp: 2219

Ion Ratio Lower Upper

43 100

58 30.7 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

1200

1000

800

600

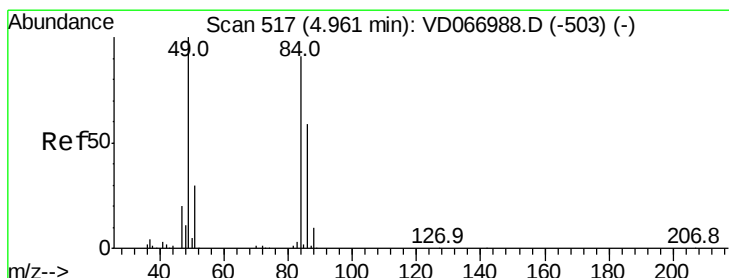
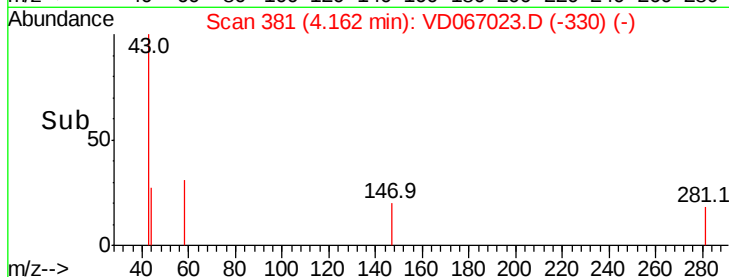
400

200

0

4.10 4.15 4.20 4.25

Time-->



#20

Methylene Chloride

Concen: 1.991 ug/l

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD067023.D

Acq: 02 Oct 2020 06:33

Tgt Ion: 84 Resp: 42472

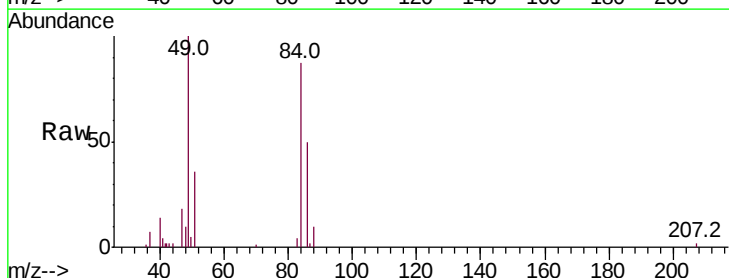
Ion Ratio Lower Upper

84 100

49 114.4 88.2 132.2

51 41.0 26.6 39.8#

86 57.2 52.1 78.1



Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

20000

15000

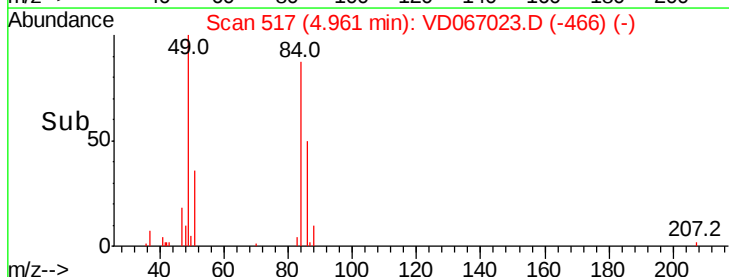
10000

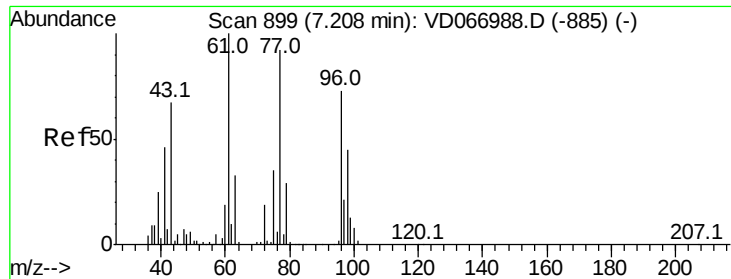
5000

0

4.90 5.00 5.10

Time-->

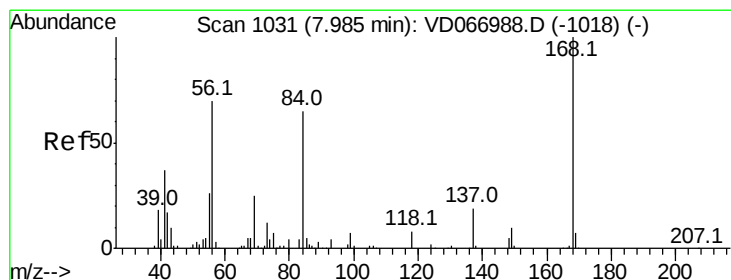
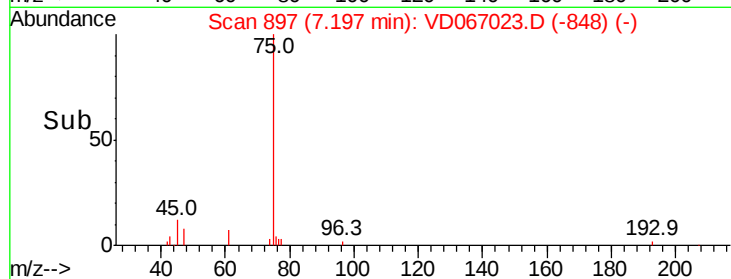
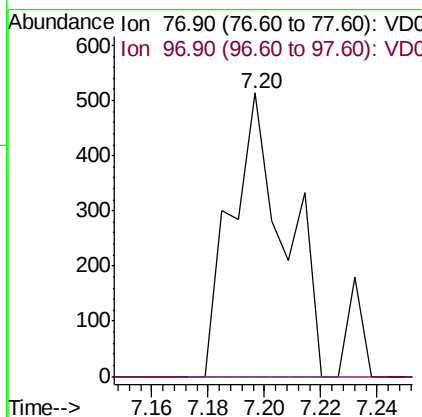
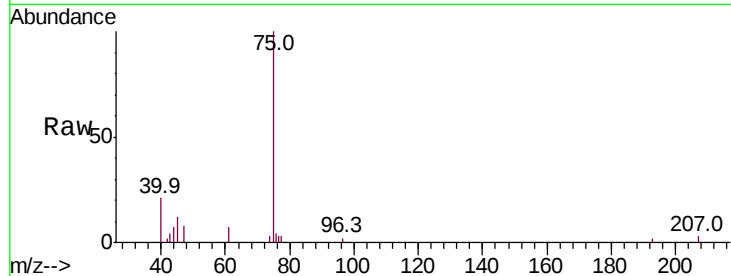




#26
2,2-Dichloropropane
Concen: Below Cal
RT: 7.20 min Scan# 897
Delta R.T. -0.01 min
Lab File: VD067023.D
Acq: 02 Oct 2020 06:33

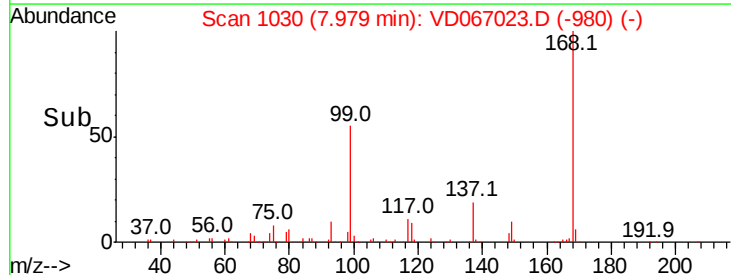
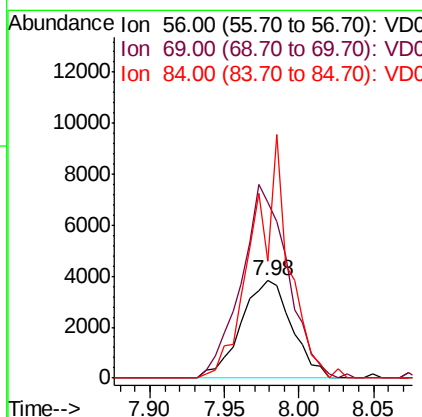
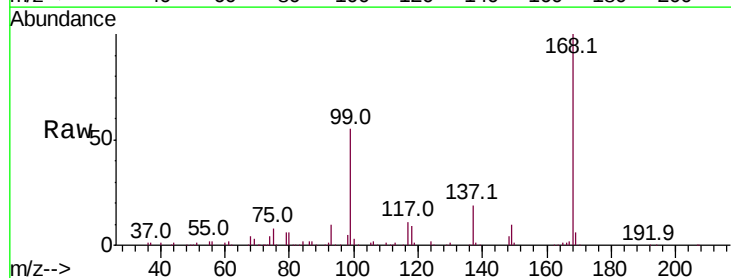
Instrument :
MSVOA_D
ClientSampled :
B-16(7-9)

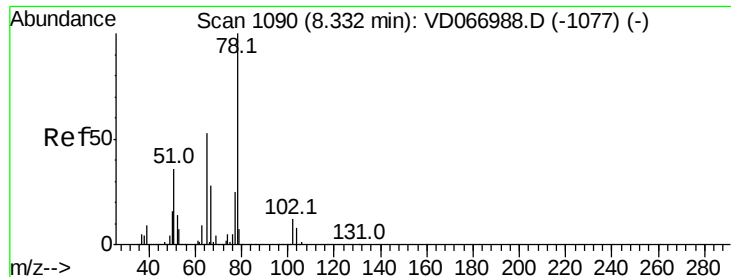
Tot Ion: 77 Resp: 678
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#



#31
Cyclohexane
Concen: 1.376 ug/l
RT: 7.98 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VD067023.D
Acq: 02 Oct 2020 06:33

Tgt Ion: 56 Resp: 9028
Ion Ratio Lower Upper
56 100
69 180.3 29.0 43.6#
84 120.1 74.2 111.2#





#33

1,2-Dichloroethane-d4

Concen: 52.850 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. -0.01 min

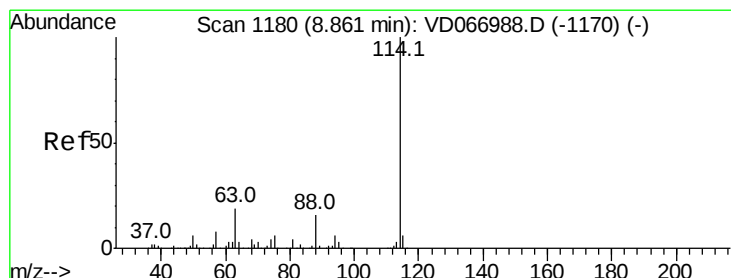
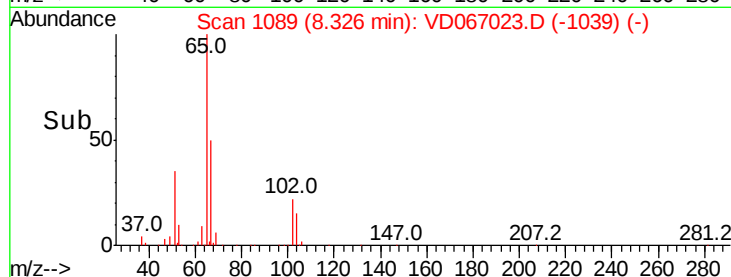
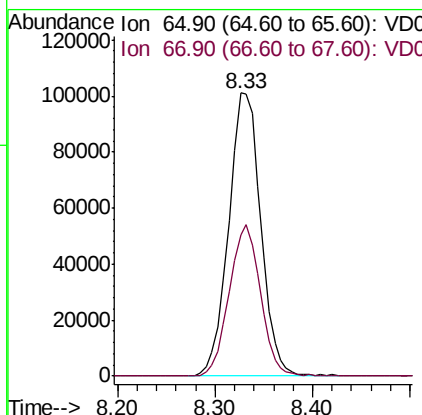
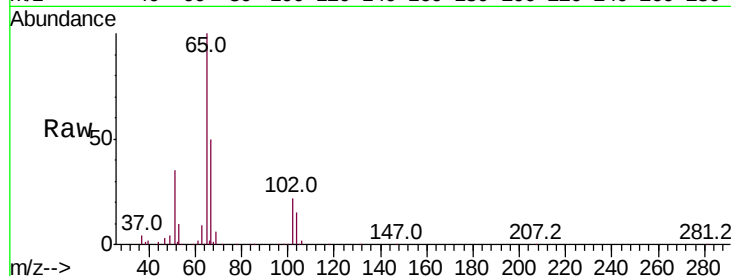
Lab File: VD067023.D

Acq: 02 Oct 2020 06:33

Instrument :
MSVOA_D
ClientSampleId :
B-16(7-9)

Tot Ion: 65 Resp: 230841

Ion	Ratio	Lower	Upper
65	100		
67	51.8	0.0	106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

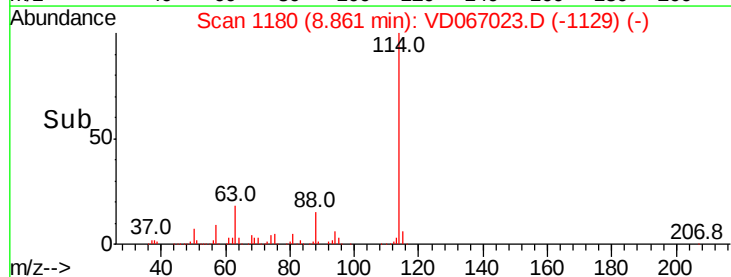
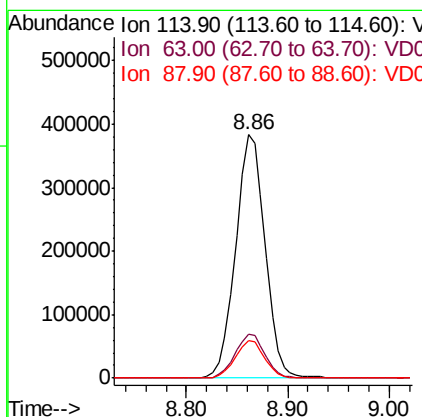
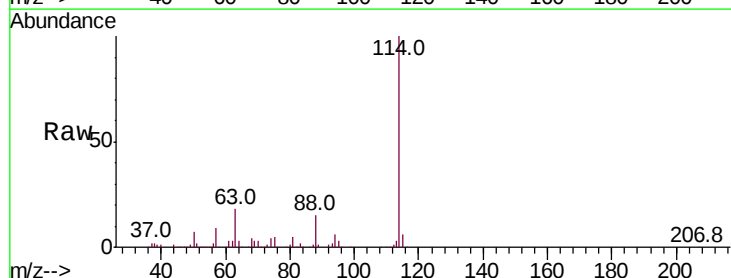
Delta R.T. 0.00 min

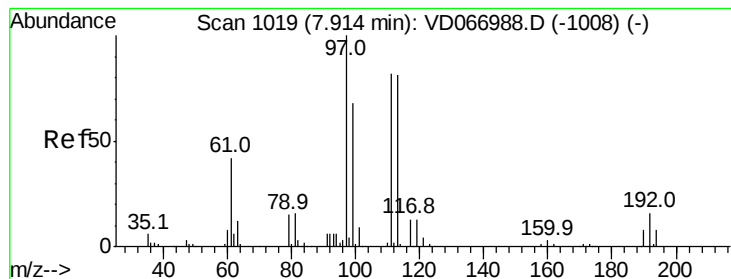
Lab File: VD067023.D

Acq: 02 Oct 2020 06:33

Tgt Ion: 114 Resp: 771909

Ion	Ratio	Lower	Upper
114	100		
63	18.2	0.0	38.4
88	15.2	0.0	31.2





#35

Dibromofluoromethane

Concen: 49.974 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067023.D

Acq: 02 Oct 2020 06:33

Instrument :

MSVOA_D

ClientSampled :

B-16(7-9)

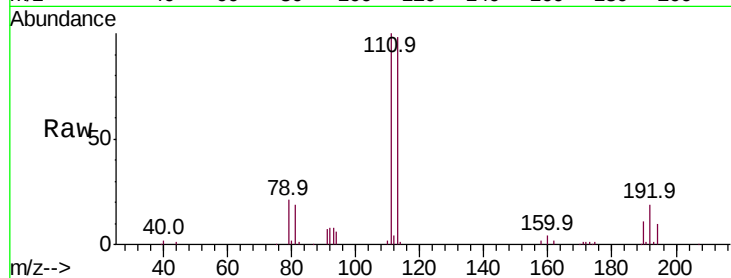
Tot Ion:113 Resp: 252544

Ion Ratio Lower Upper

113 100

111 101.7 83.0 124.4

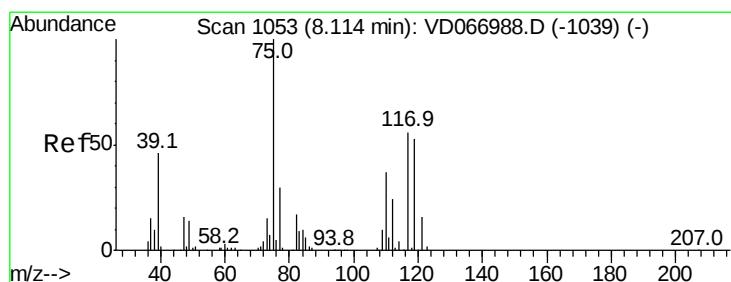
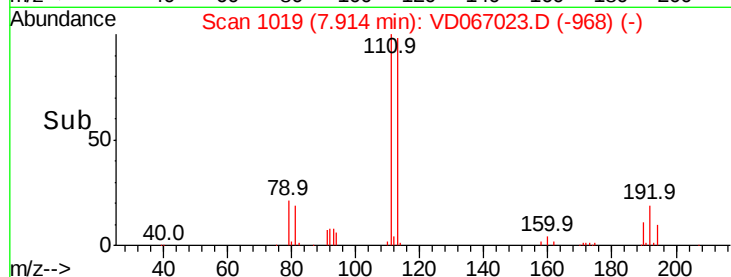
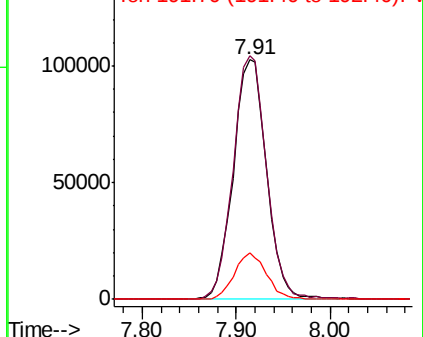
192 18.6 15.5 23.3



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: 4.969 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067023.D

Acq: 02 Oct 2020 06:33

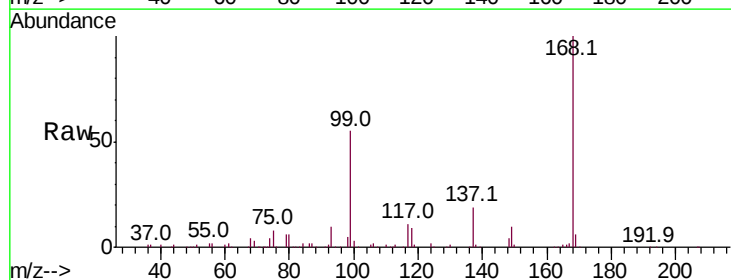
Tgt Ion: 75 Resp: 35755

Ion Ratio Lower Upper

75 100

110 8.7 18.4 55.0#

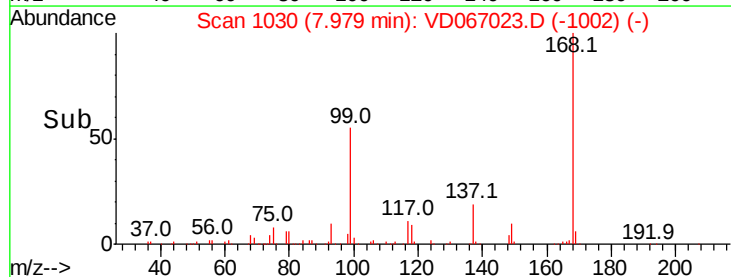
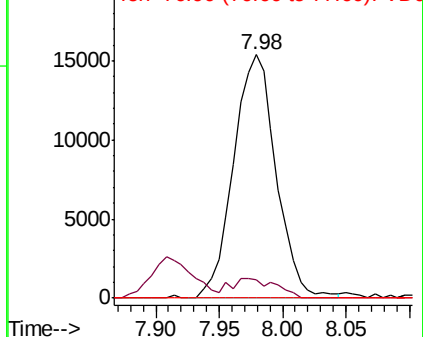
77 0.0 24.8 37.2#

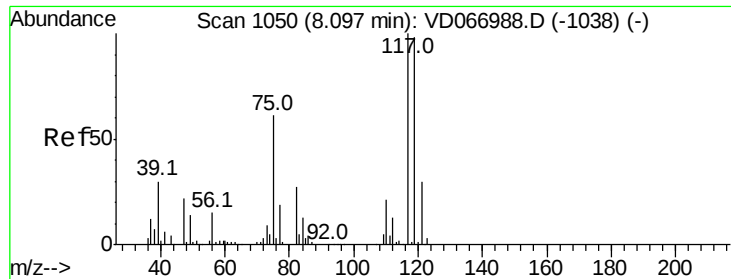


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.034 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067023.D

Acq: 02 Oct 2020 06:33

Instrument :

MSVOA_D

ClientSampled :

B-16(7-9)

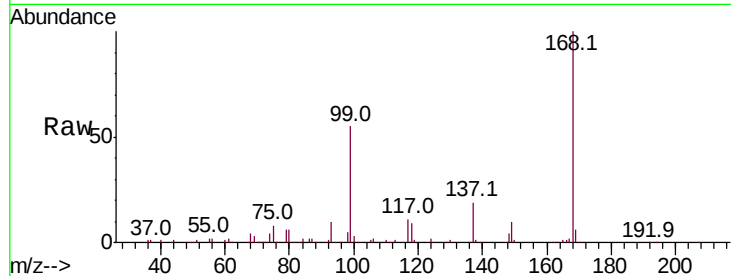
Tot Ion:117 Resp: 46972

Ion Ratio Lower Upper

117 100

119 5.3 78.7 118.1#

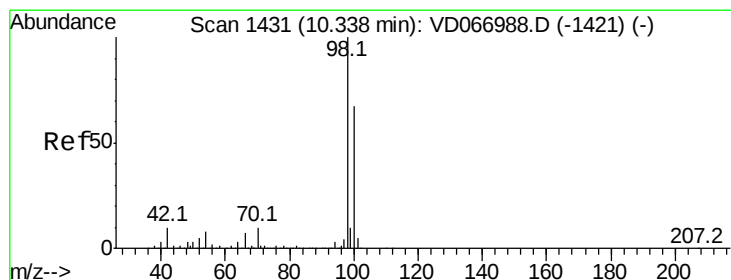
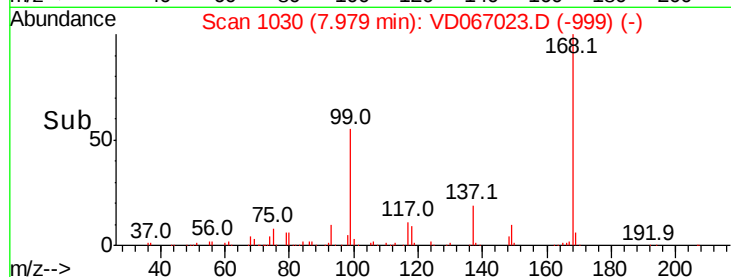
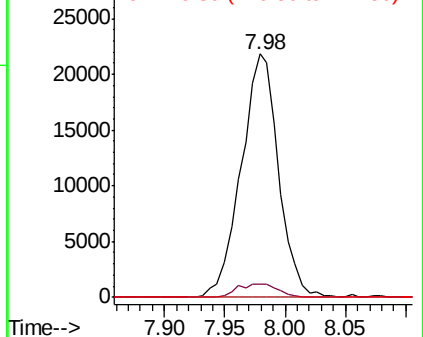
121 0.0 24.2 36.2#



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: 49.638 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067023.D

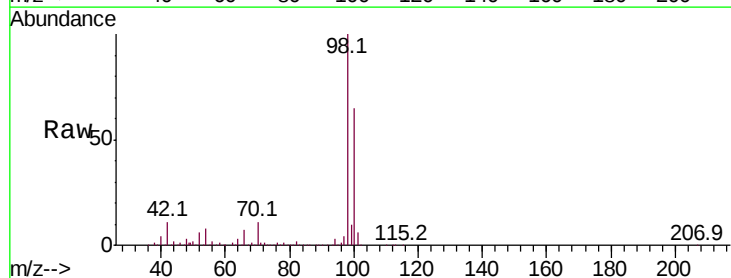
Acq: 02 Oct 2020 06:33

Tgt Ion: 98 Resp: 914053

Ion Ratio Lower Upper

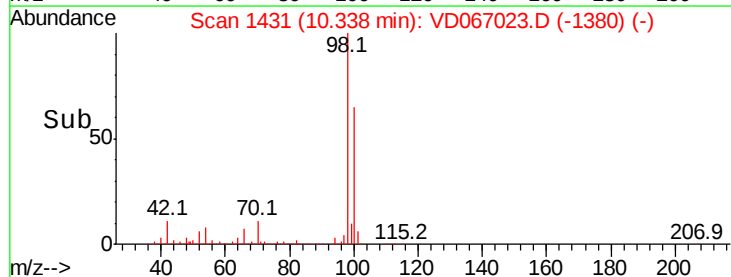
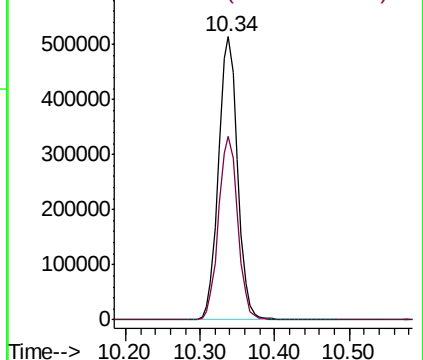
98 100

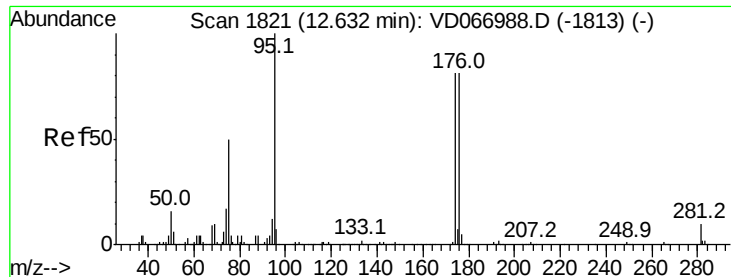
100 65.4 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

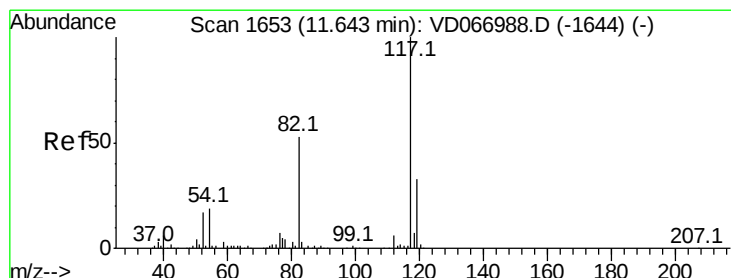
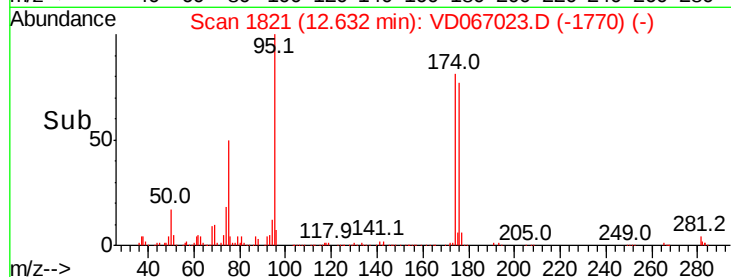
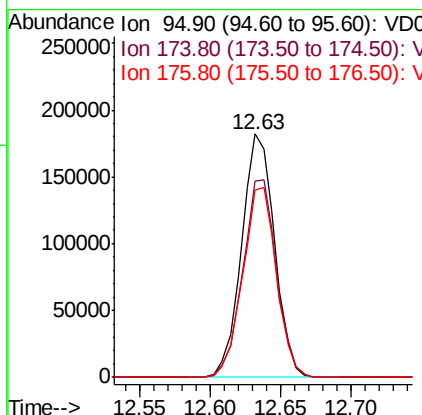
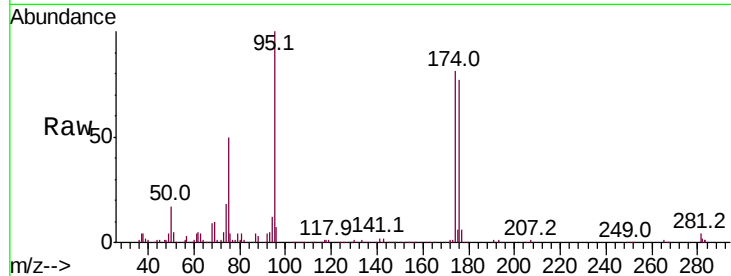




#62
4-Bromofluorobenzene
Concen: 47.510 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.00 min
Lab File: VD067023.D
Acq: 02 Oct 2020 06:33

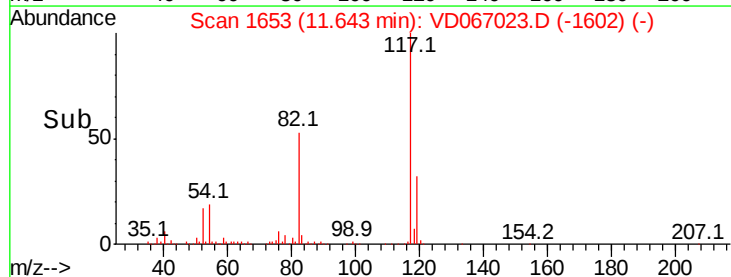
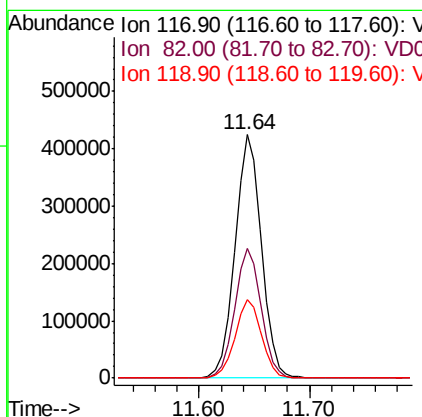
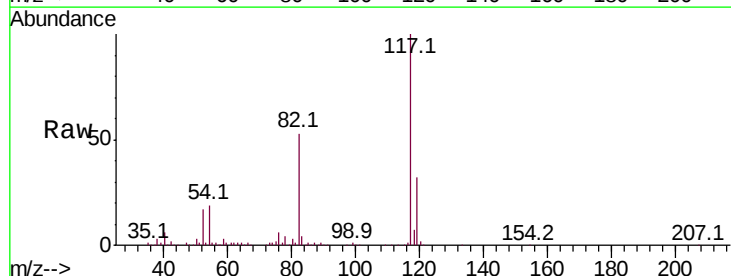
Instrument :
MSVOA_D
ClientSampleId :
B-16(7-9)

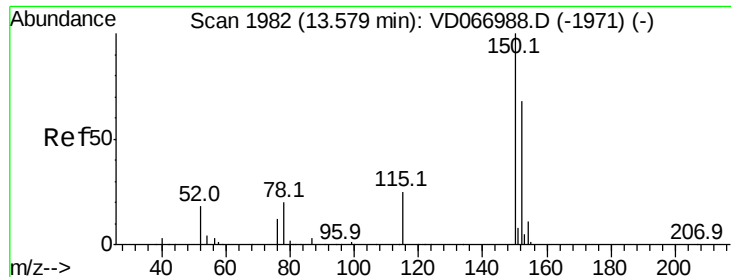
Tot Ion	95	Resp	297000
Ion Ratio	Lower	Upper	
95	100		
174	83.2	0.0	167.6
176	80.0	0.0	162.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067023.D
Acq: 02 Oct 2020 06:33

Tgt Ion	117	Resp	712070
Ion Ratio	Lower	Upper	
117	100		
82	53.3	42.6	63.8
119	32.3	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: VD067023.D

Acq: 02 Oct 2020 06:33

Instrument :

MSVOA_D

ClientSampled :

B-16(7-9)

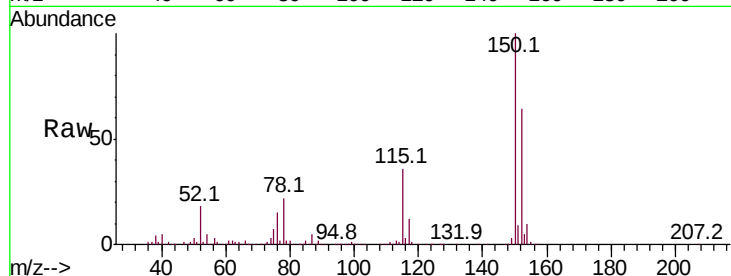
Tot Ion:152 Resp: 330586

Ion Ratio Lower Upper

152 100

115 59.2 29.6 88.8

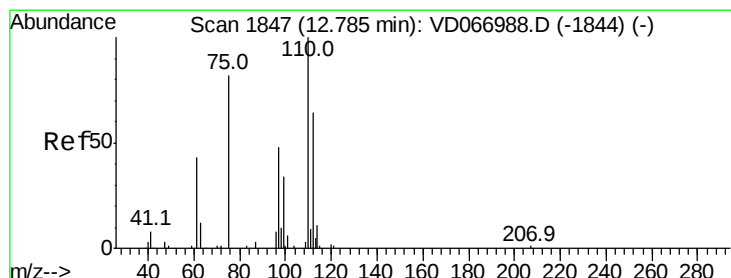
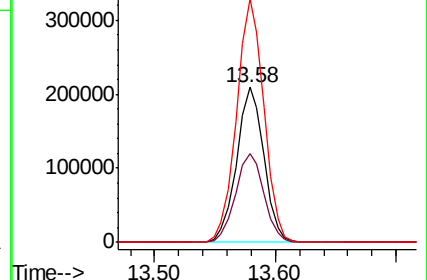
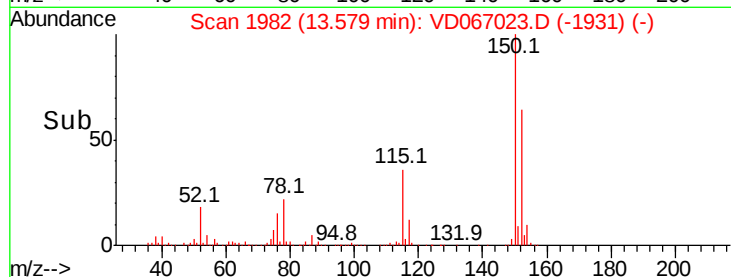
150 156.6 0.0 344.8



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: 52.115 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD067023.D

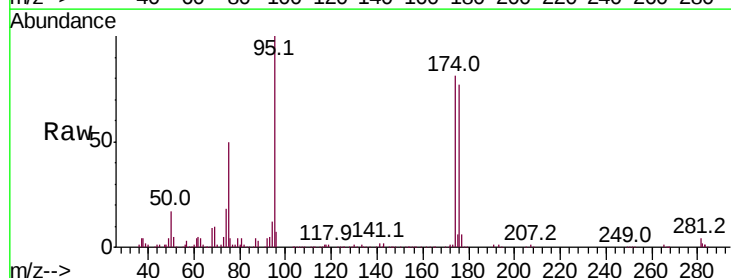
Acq: 02 Oct 2020 06:33

Tgt Ion: 75 Resp: 150065

Ion Ratio Lower Upper

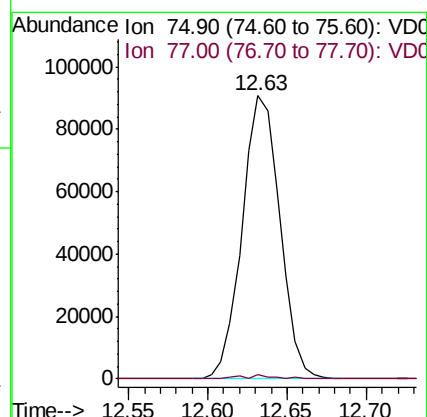
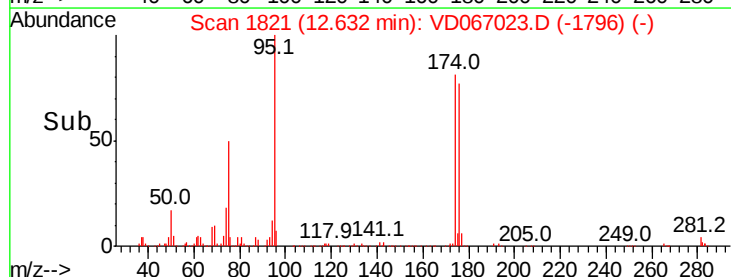
75 100

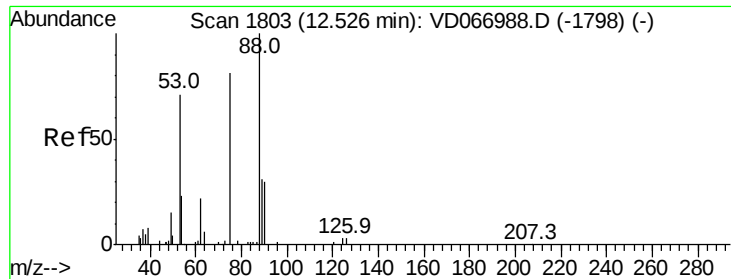
77 1.2 0.0 0.0#



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: 129.929 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.11 min

Lab File: VD067023.D

Acq: 02 Oct 2020 06:33

Instrument :

MSVOA_D

ClientSampleId :

B-16(7-9)

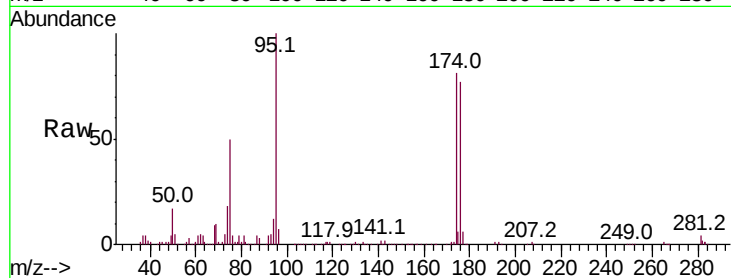
Tot Ion: 75 Resp: 150065

Ion Ratio Lower Upper

75 100

53 0.1 73.8 110.6#

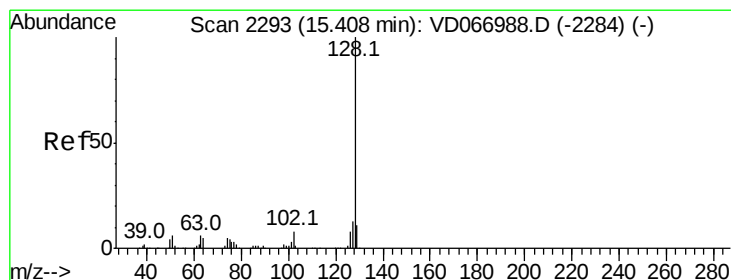
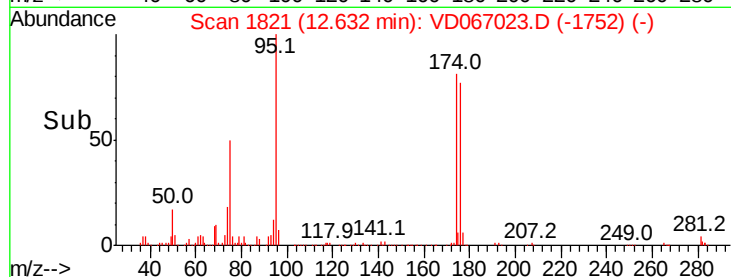
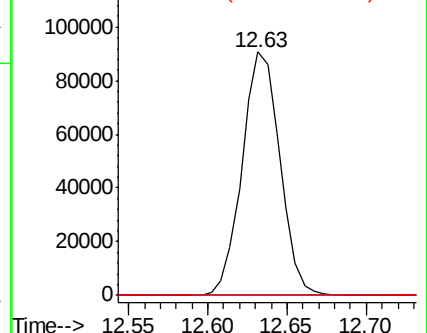
89 0.1 38.9 58.3#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 53.00 (52.70 to 53.70): V

Ion 88.90 (88.60 to 89.60): V



#95

Naphthalene

Concen: 29.756 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.00 min

Lab File: VD067023.D

Acq: 02 Oct 2020 06:33

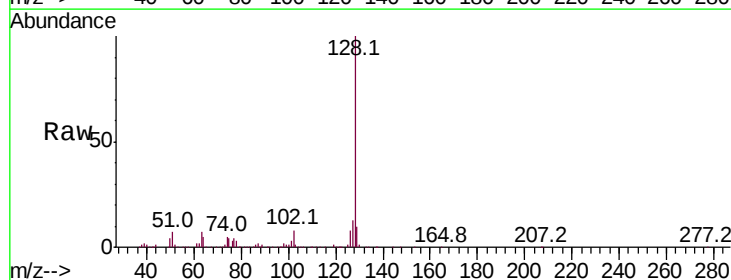
Tgt Ion:128 Resp: 296005

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 11.1 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

