

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100220\
 Data File : VD067040.D
 Acq On : 02 Oct 2020 17:20
 Operator : VA/SY
 Sample : L4213-12
 Misc : 5.08G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 B-17(13-15)

Quant Time: Oct 03 04:49:30 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	545453	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	904433	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	865045	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	412458	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	261833	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
35) Dibromofluoromethane	7.91	113	278526	47.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.08%	
50) Toluene-d8	10.34	98	1110436	51.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.94%	
62) 4-Bromofluorobenzene	12.63	95	389835	53.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.44%	

Target Compounds

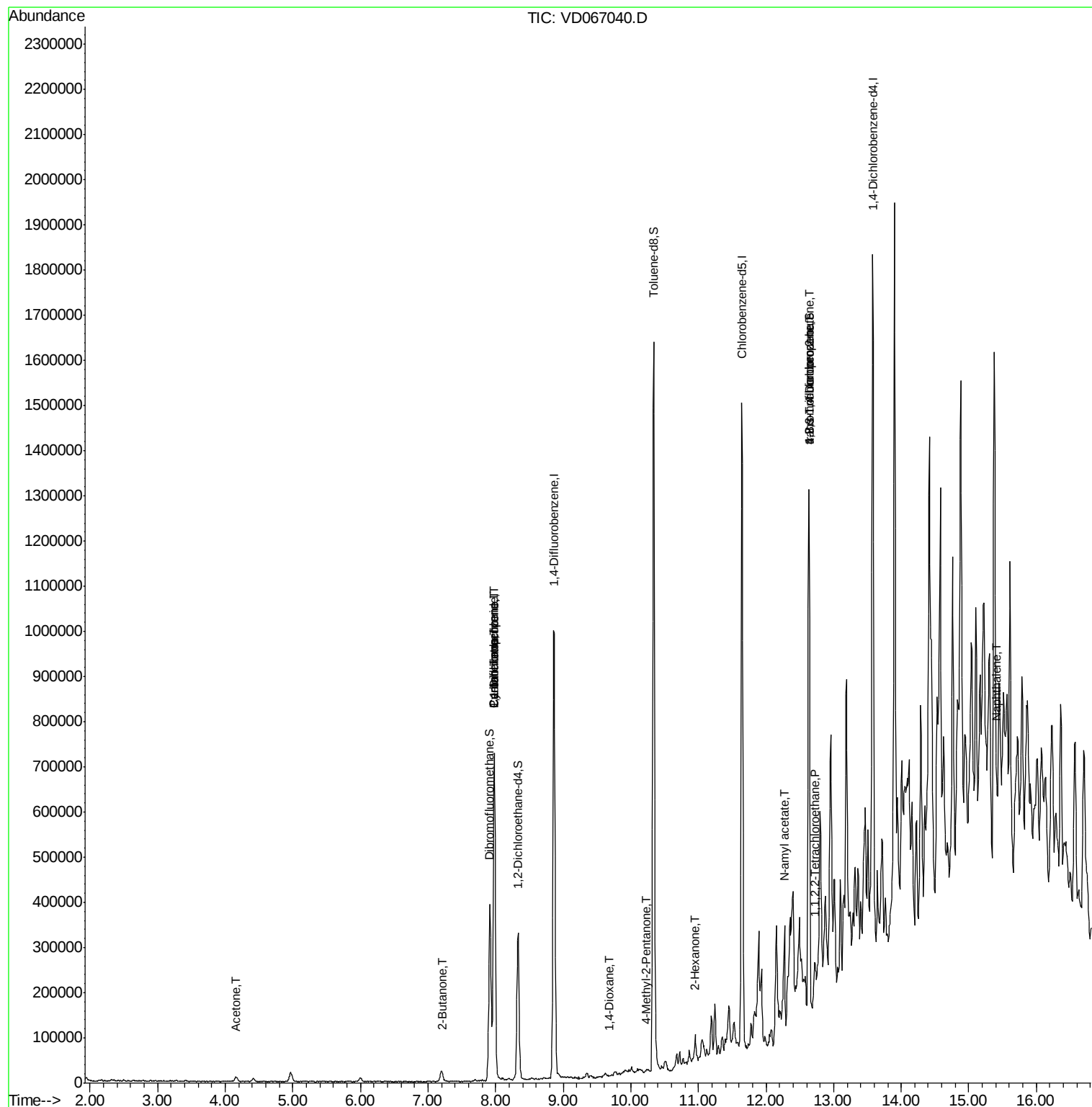
						Qvalue
2) Dichlorodifluoromethane	1.99	85	1037	Below Cal	#	40
5) Bromomethane	2.79	94	624	Below Cal		94
11) Tert butyl alcohol	5.18	59	687	Below Cal	#	72
16) Acetone	4.16	43	19579	24.413	ug/l #	84
20) Methylene Chloride	4.96	84	15710	Below Cal		87
25) 2-Butanone	7.22	43	5077	4.465	ug/l #	66
26) 2,2-Dichloropropane	7.19	77	1317	Below Cal	#	53
31) Cyclohexane	7.97	56	10700	1.356	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	37775	4.481	ug/l #	51
38) Carbon Tetrachloride	7.98	117	54829	6.011	ug/l #	15
49) 1,4-Dioxane	9.68	88	59	1.788	ug/l #	1
51) 4-Methyl-2-Pentanone	10.23	43	3327	1.241	ug/l	91
59) 2-Hexanone	10.95	43	21577	12.063	ug/l #	29
74) N-amyl acetate	12.27	43	49102	9.753	ug/l #	48
75) 1,1,2,2-Tetrachloroethane	12.73	83	5464	1.158	ug/l #	51
76) 1,2,3-Trichloropropane	12.63	75	190105	52.915	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	190105	131.924	ug/l #	13
95) Naphthalene	15.41	128	28349	2.284	ug/l #	75

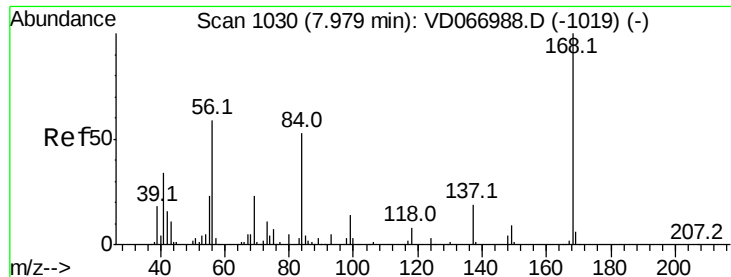
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD100220\
Data File : VD067040.D
Acq On : 02 Oct 2020 17:20
Operator : VA/SY
Sample : L4213-12
Misc : 5.08G/5.00ml/MSVOA D/SOIL
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :
B-17(13-15)

Quant Time: Oct 03 04:49:30 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: VD067040.D

Acq: 02 Oct 2020 17:20

Instrument :

MSVOA_D

ClientSampleId :

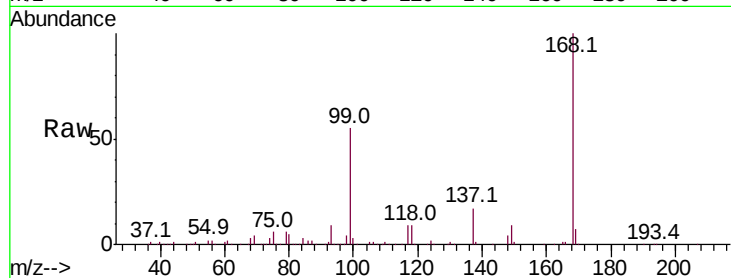
B-17(13-15)

Tot Ion:168 Resp: 545453

Ion Ratio Lower Upper

168 100

99 55.3 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

250000

200000

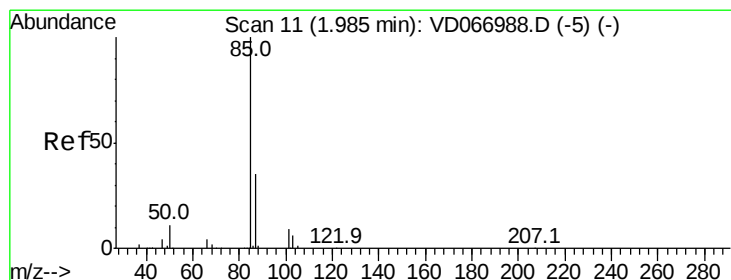
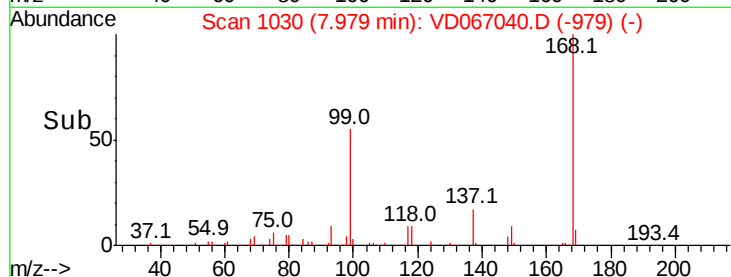
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067040.D

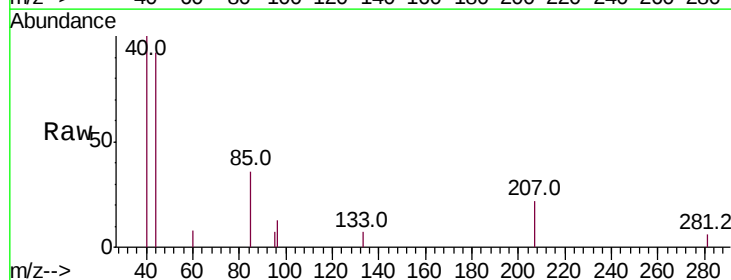
Acq: 02 Oct 2020 17:20

Tgt Ion: 85 Resp: 1037

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

1000

800

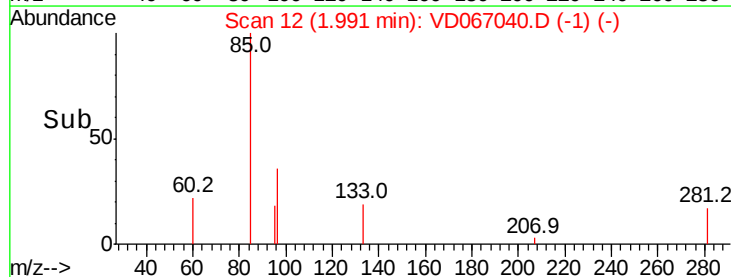
600

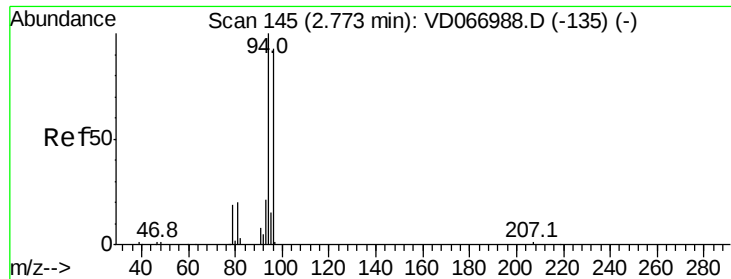
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067040.D

Acq: 02 Oct 2020 17:20

Instrument :

MSVOA_D

ClientSampleID :

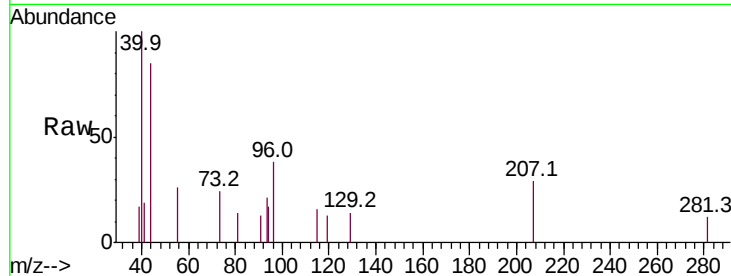
B-17(13-15)

Tot Ion: 94 Resp: 624

Ion Ratio Lower Upper

94 100

96 99.4 74.6 112.0

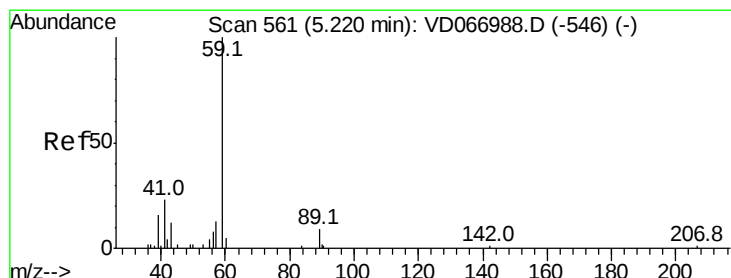
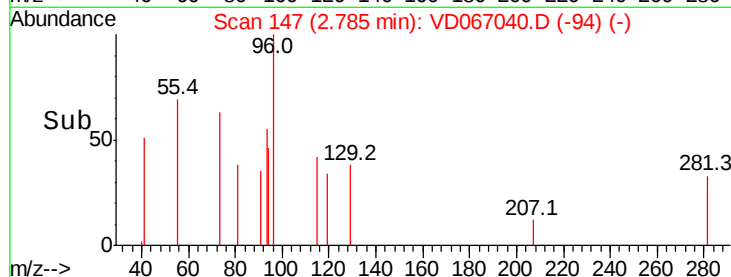


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.79

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.18 min Scan# 554

Delta R.T. -0.04 min

Lab File: VD067040.D

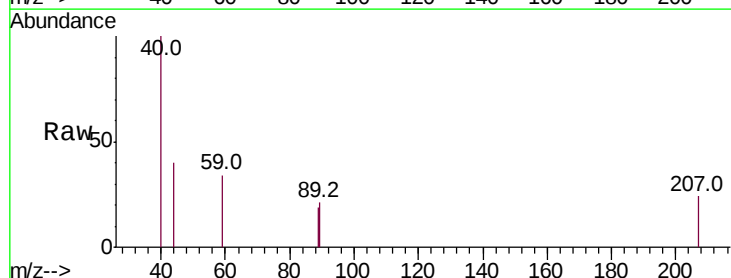
Acq: 02 Oct 2020 17:20

Tgt Ion: 59 Resp: 687

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#

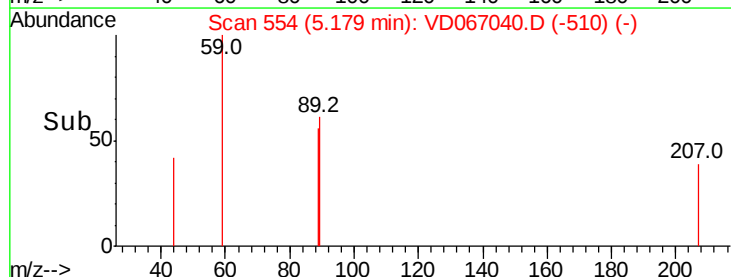


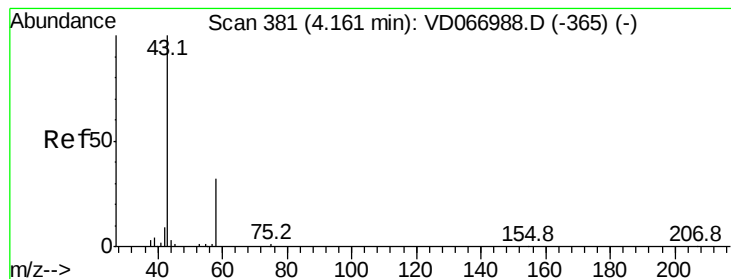
Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.18

Time-->





#16

Acetone

Concen: 24.413 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD067040.D

Acq: 02 Oct 2020 17:20

Instrument :

MSVOA_D

ClientSampleId :

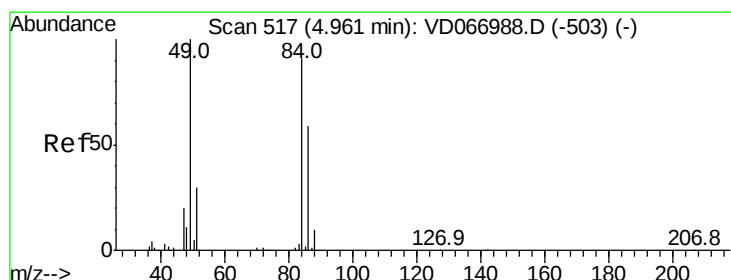
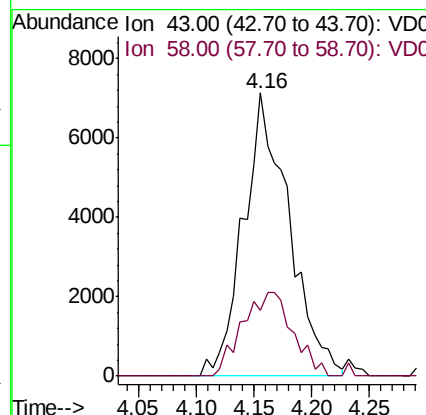
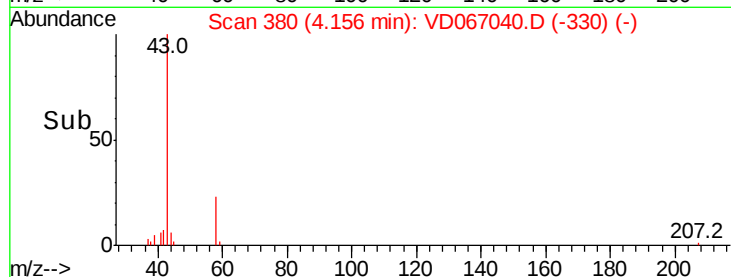
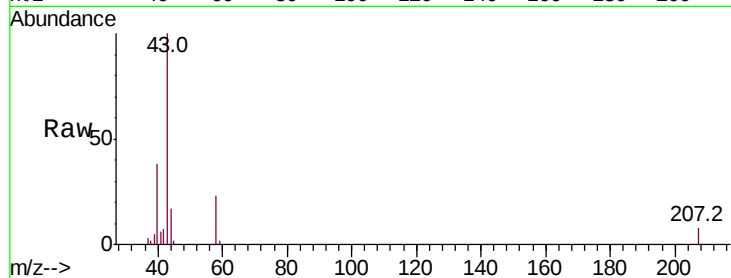
B-17(13-15)

Tot Ion: 43 Resp: 19579

Ion Ratio Lower Upper

43 100

58 23.2 25.9 38.9#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD067040.D

Acq: 02 Oct 2020 17:20

Tgt Ion: 84 Resp: 15710

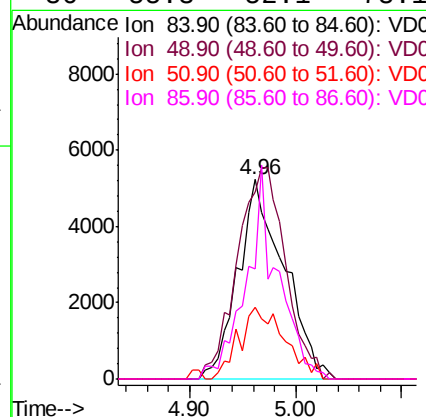
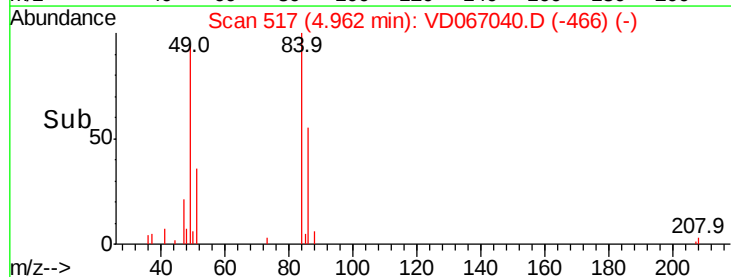
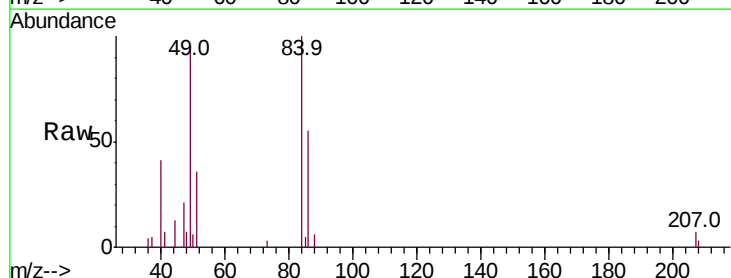
Ion Ratio Lower Upper

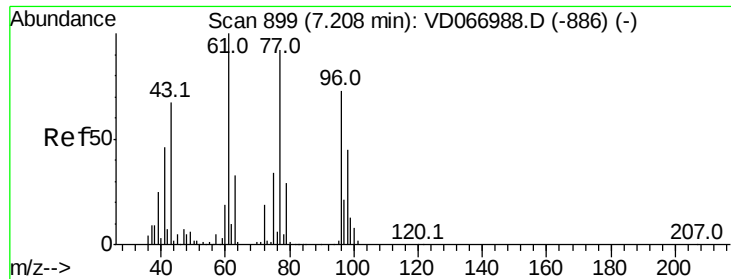
84 100

49 94.0 88.2 132.2

51 35.9 26.6 39.8

86 55.3 52.1 78.1





#25

2-Butanone

Concen: 4.465 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD067040.D

Acq: 02 Oct 2020 17:20

Instrument :

MSVOA_D

ClientSampleId :

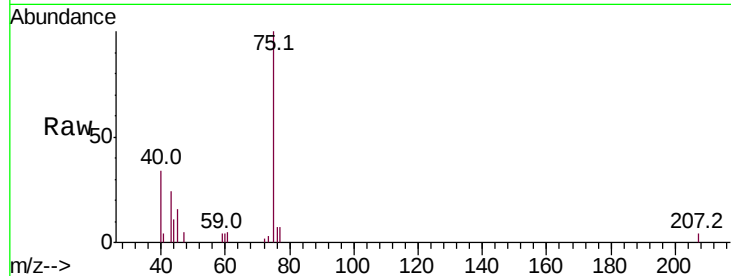
B-17(13-15)

Tot Ion: 43 Resp: 5077

Ion Ratio Lower Upper

43 100

72 10.2 22.8 34.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.22

2000

1500

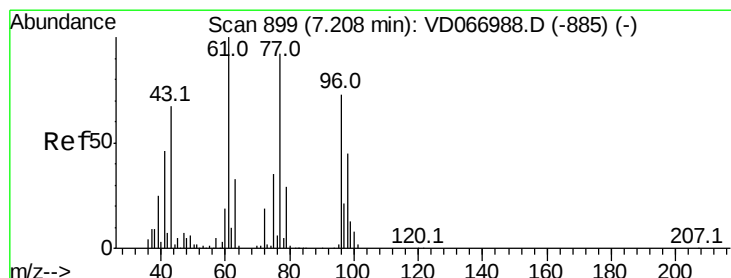
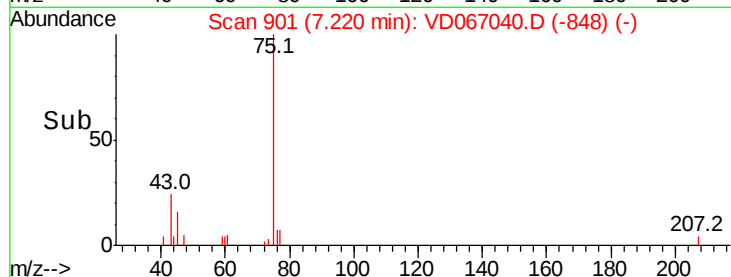
1000

500

0

7.15 7.20 7.25

Time-->



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.19 min Scan# 896

Delta R.T. -0.02 min

Lab File: VD067040.D

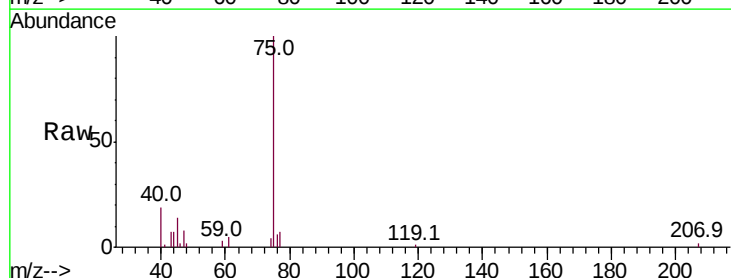
Acq: 02 Oct 2020 17:20

Tgt Ion: 77 Resp: 1317

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

1000

800

600

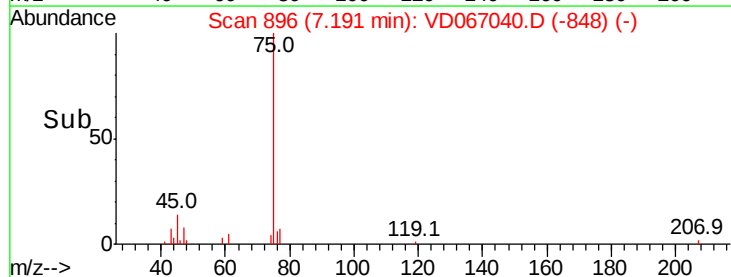
400

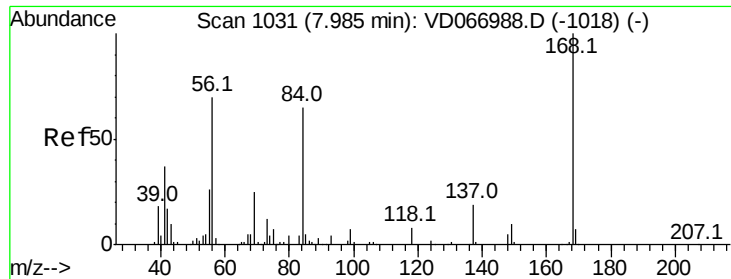
200

0

7.14 7.16 7.18 7.20 7.22

Time-->

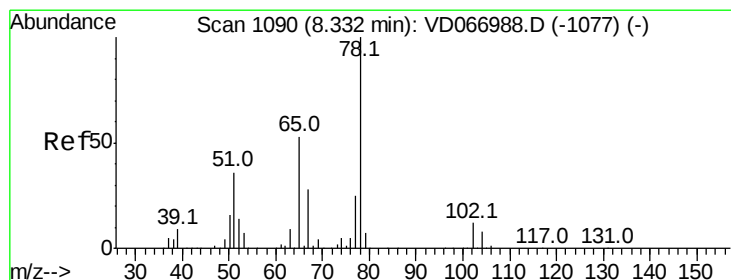
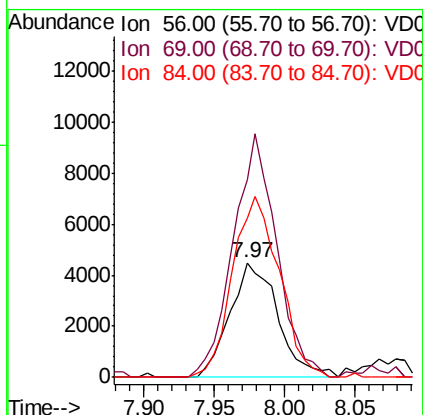
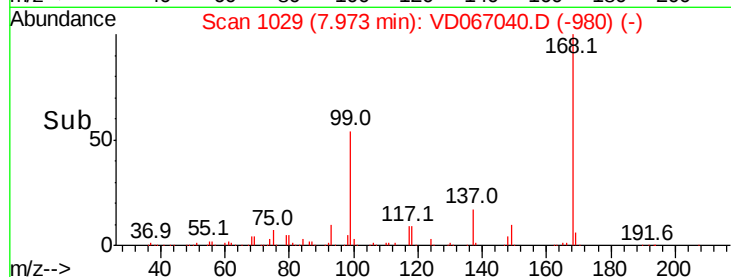
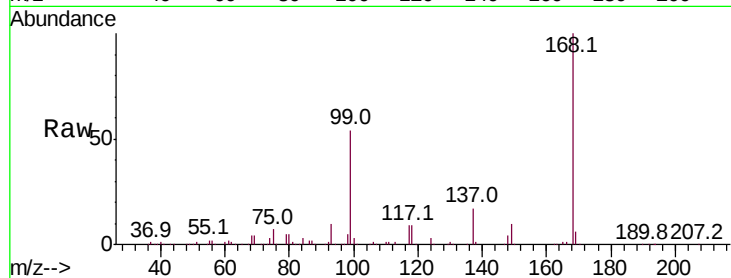




#31
Cyclohexane
Concen: 1.356 ug/l
RT: 7.97 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VD067040.D
Acq: 02 Oct 2020 17:20

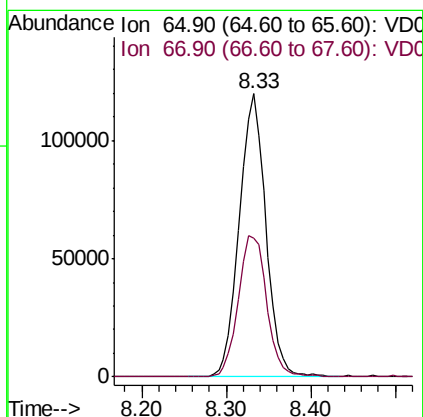
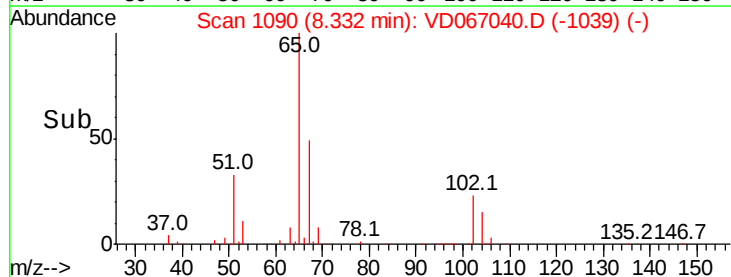
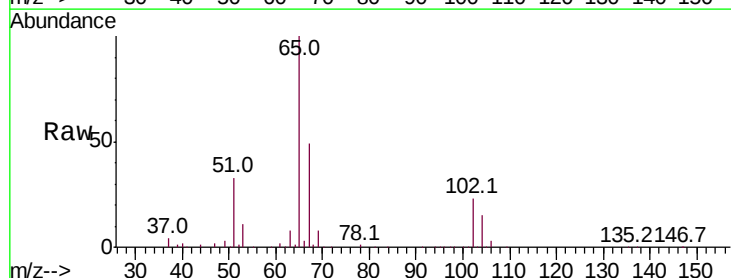
Instrument :
MSVOA_D
ClientSampleID :
B-17(13-15)

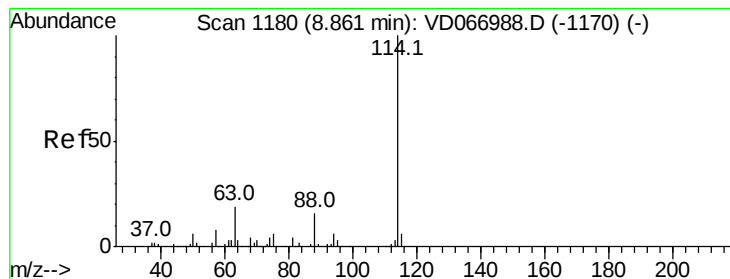
Tot Ion: 56 Resp: 10700
Ion Ratio Lower Upper
56 100
69 172.0 29.0 43.6#
84 138.8 74.2 111.2#



#33
1,2-Dichloroethane-d4
Concen: 49.837 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD067040.D
Acq: 02 Oct 2020 17:20

Tgt Ion: 65 Resp: 261833
Ion Ratio Lower Upper
65 100
67 53.5 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.01 min

Lab File: VD067040.D

Acq: 02 Oct 2020 17:20

Instrument :

MSVOA_D

ClientSampleId :

B-17(13-15)

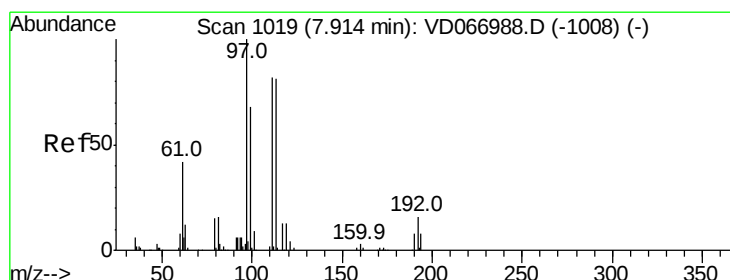
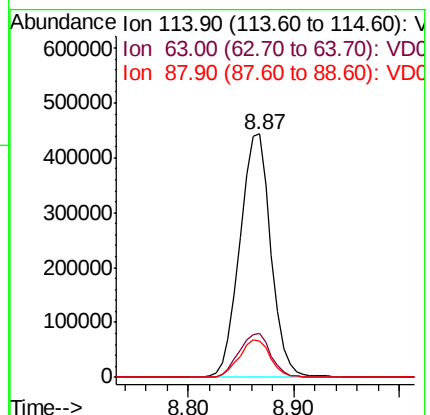
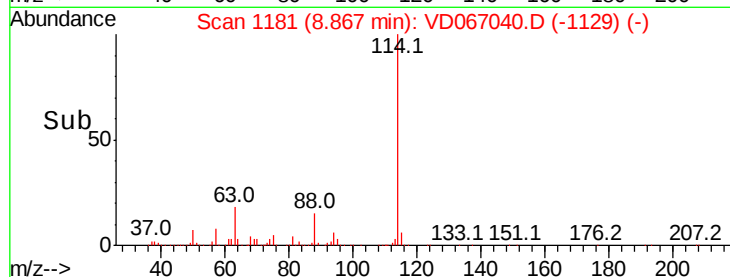
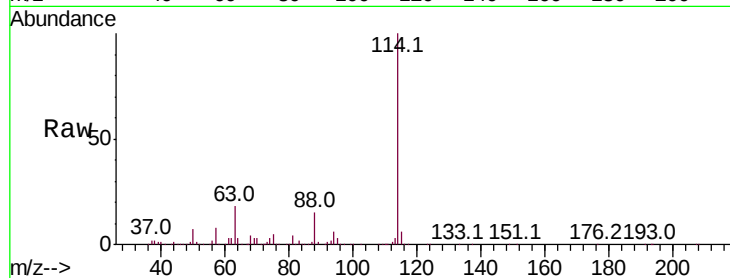
Tot Ion:114 Resp: 904433

Ion Ratio Lower Upper

114 100

63 18.0 0.0 38.4

88 15.1 0.0 31.2



#35

Dibromofluoromethane

Concen: 47.039 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067040.D

Acq: 02 Oct 2020 17:20

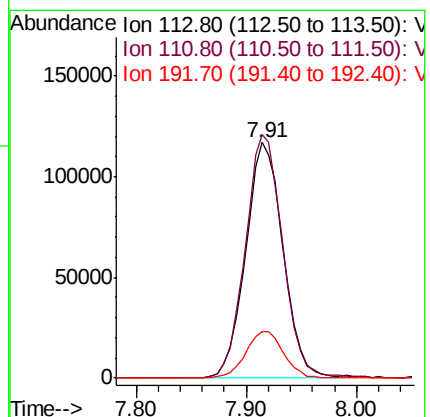
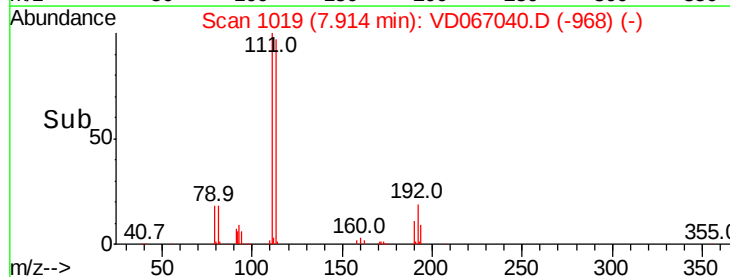
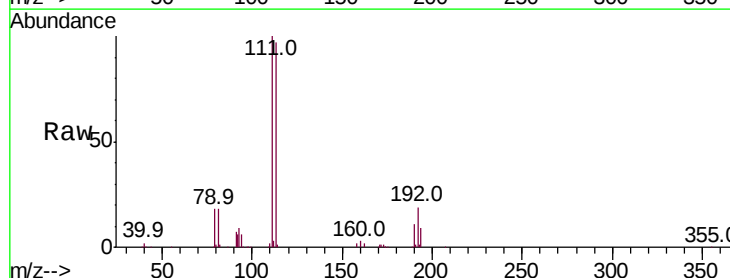
Tgt Ion:113 Resp: 278526

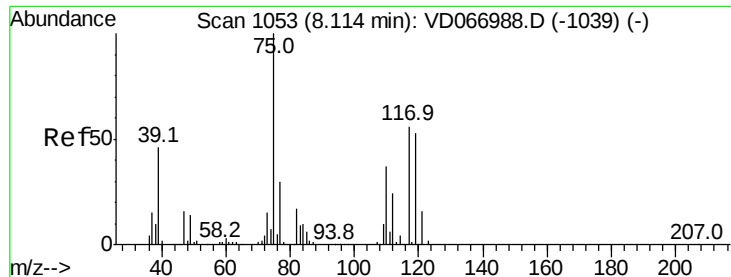
Ion Ratio Lower Upper

113 100

111 103.8 83.0 124.4

192 20.0 15.5 23.3





#36

1,1-Dichloropropene

Concen: 4.481 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD067040.D

Acq: 02 Oct 2020 17:20

Instrument :

MSVOA_D

ClientSampleId :

B-17(13-15)

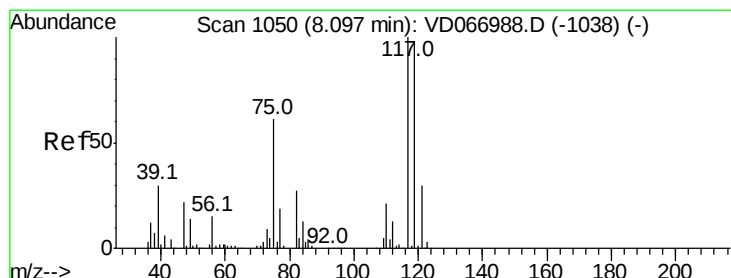
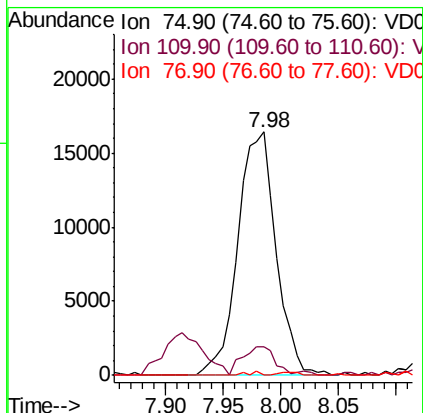
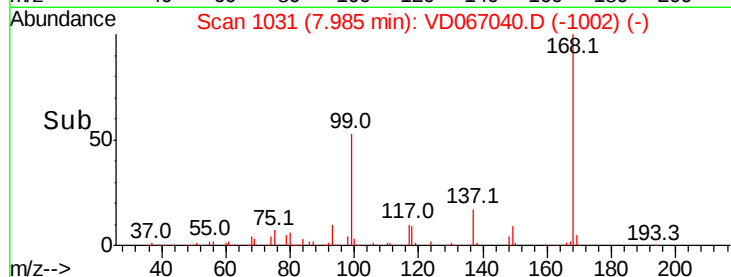
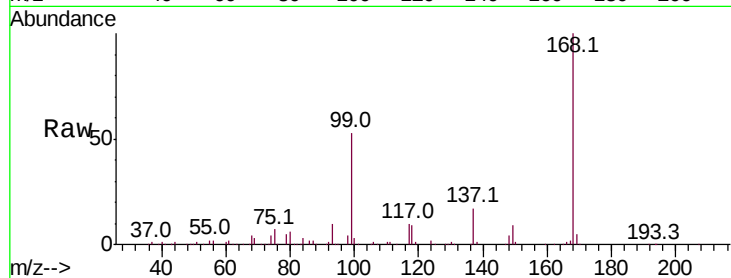
Tot Ion: 75 Resp: 37775

Ion Ratio Lower Upper

75 100

110 10.5 18.4 55.0#

77 0.4 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 6.011 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067040.D

Acq: 02 Oct 2020 17:20

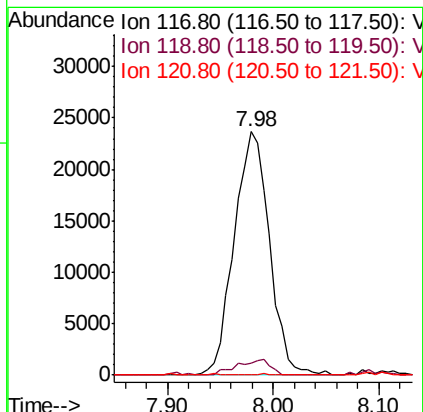
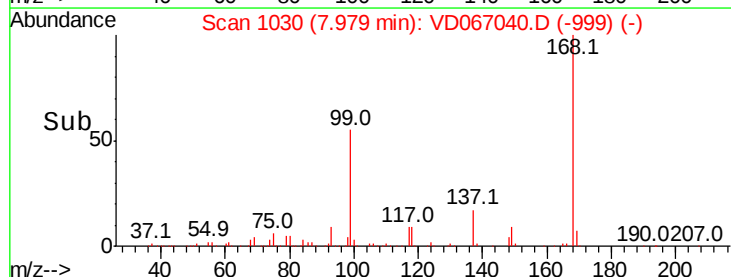
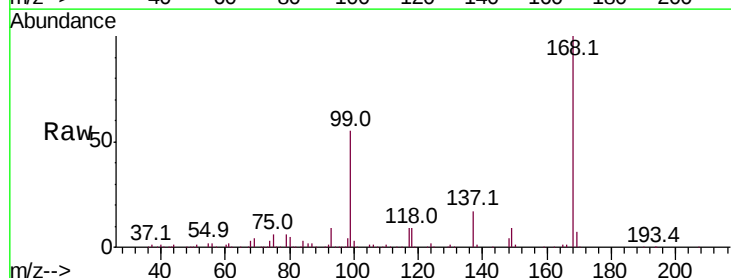
Tgt Ion: 117 Resp: 54829

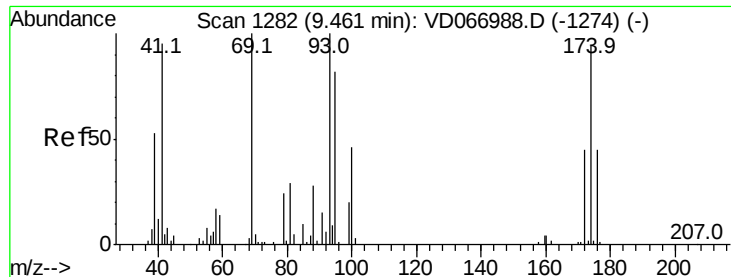
Ion Ratio Lower Upper

117 100

119 4.7 78.7 118.1#

121 0.0 24.2 36.2#

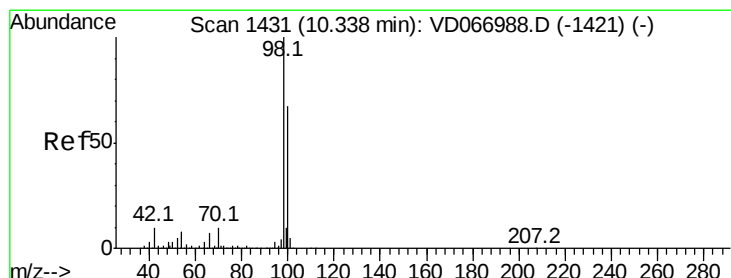
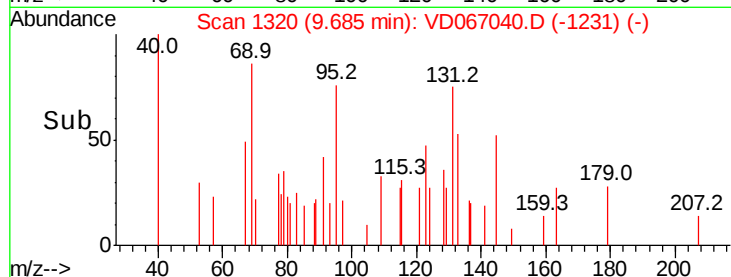
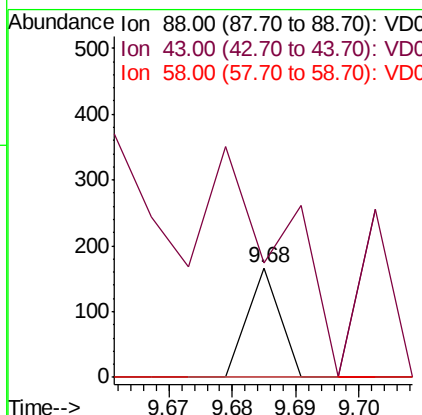
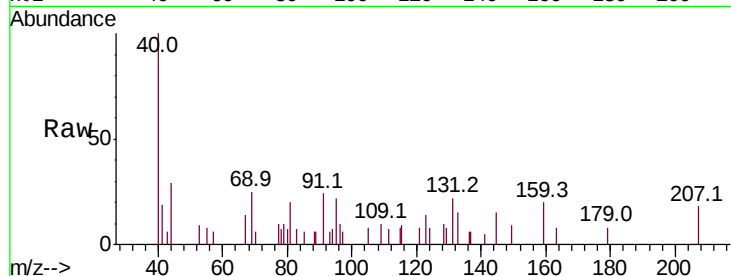




#49
1,4-Dioxane
Concen: 1.788 ug/l
RT: 9.68 min Scan# 1320
Delta R.T. 0.22 min
Lab File: VD067040.D
Acq: 02 Oct 2020 17:20

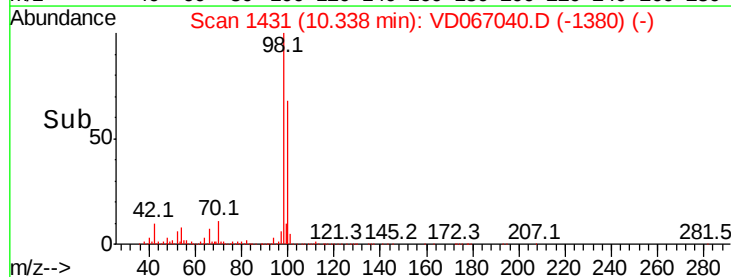
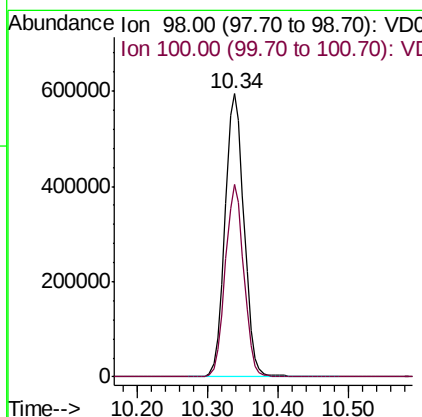
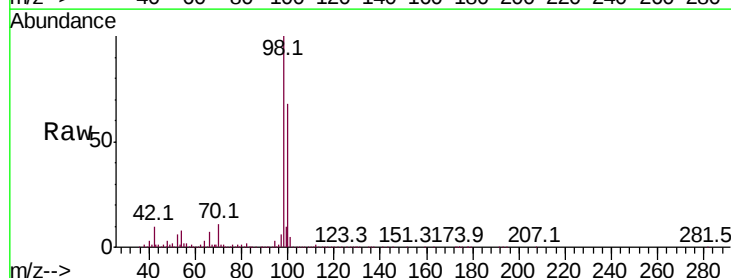
Instrument :
MSVOA_D
ClientSampleId :
B-17(13-15)

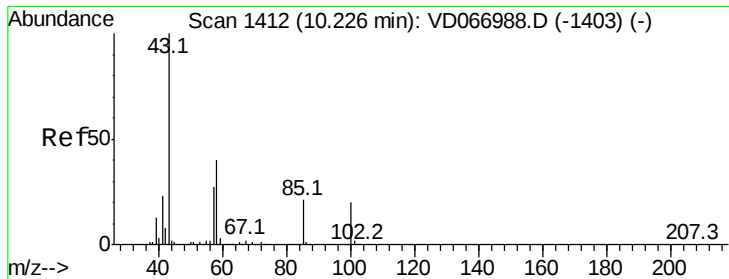
Tot Ion: 88 Resp: 59
Ion Ratio Lower Upper
88 100
43 469.5 25.6 38.4#
58 0.0 53.5 80.3#



#50
Toluene-d8
Concen: 51.466 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD067040.D
Acq: 02 Oct 2020 17:20

Tgt Ion: 98 Resp: 1110436
Ion Ratio Lower Upper
98 100
100 66.2 52.8 79.2





#51

4-Methyl-2-Pentanone

Concen: 1.241 ug/l

RT: 10.23 min Scan# 1412

Delta R.T. 0.00 min

Lab File: VD067040.D

Acq: 02 Oct 2020 17:20

Instrument :

MSVOA_D

ClientSampleId :

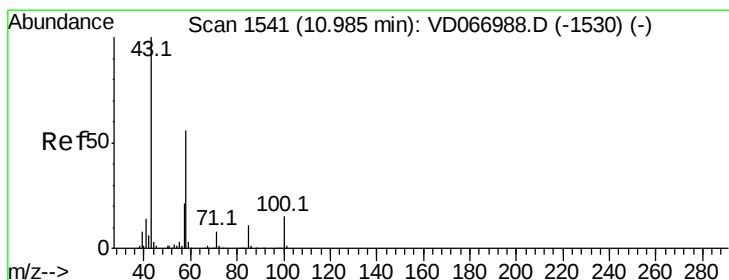
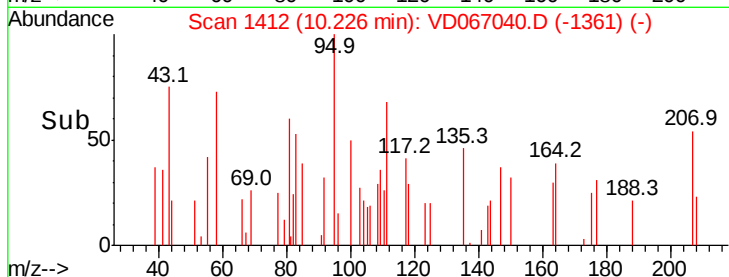
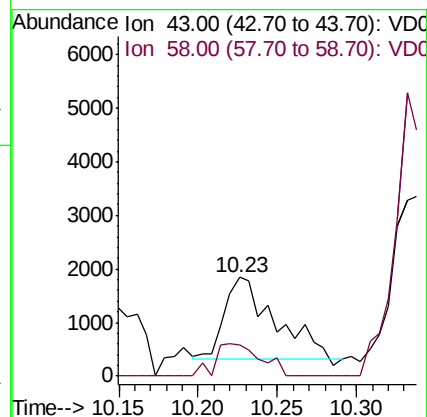
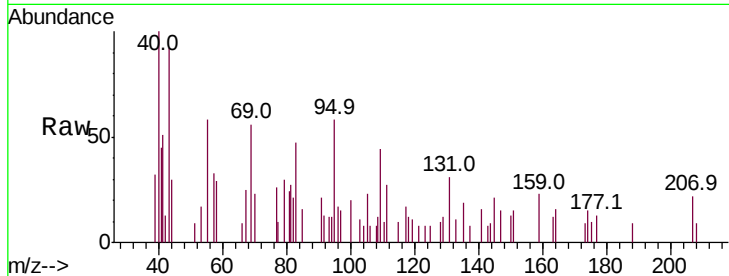
B-17(13-15)

Tot Ion: 43 Resp: 3327

Ion Ratio Lower Upper

43 100

58 36.5 33.8 50.8



#59

2-Hexanone

Concen: 12.063 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. -0.04 min

Lab File: VD067040.D

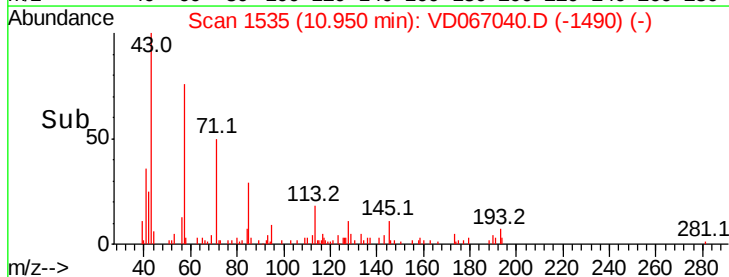
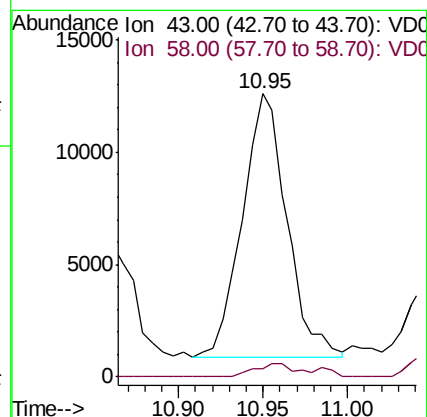
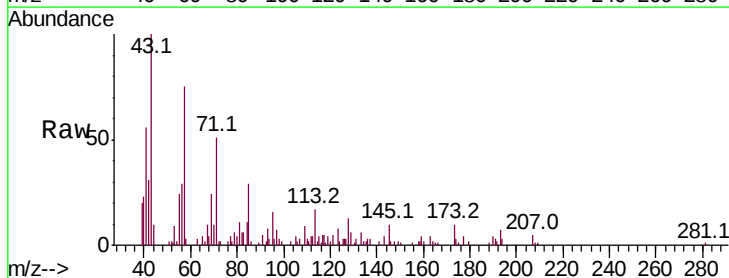
Acq: 02 Oct 2020 17:20

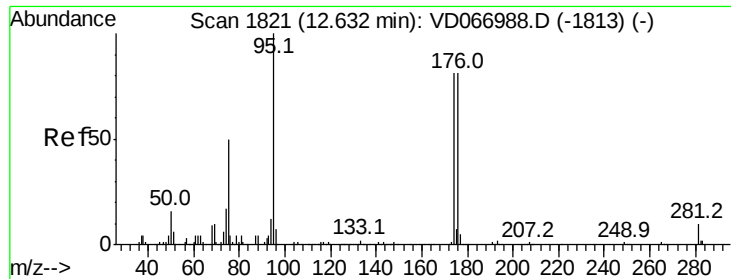
Tgt Ion: 43 Resp: 21577

Ion Ratio Lower Upper

43 100

58 4.7 28.3 84.9#

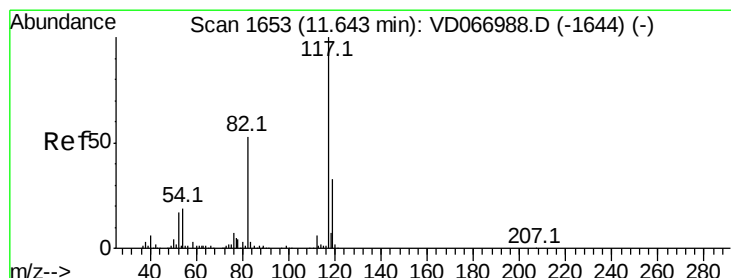
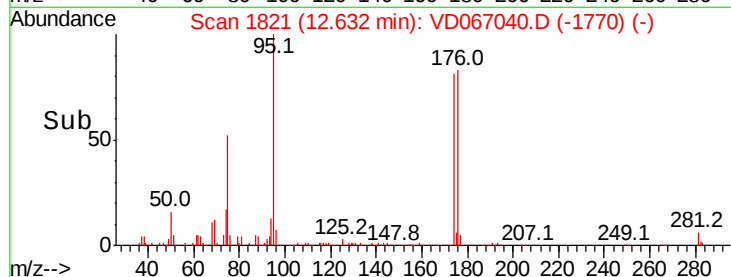
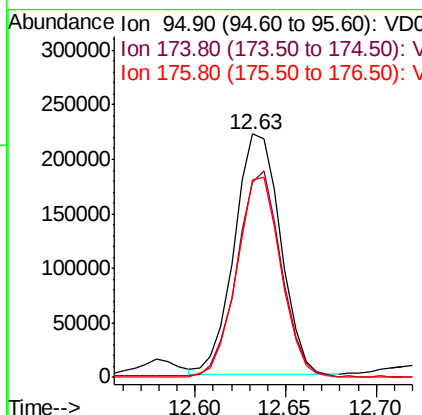
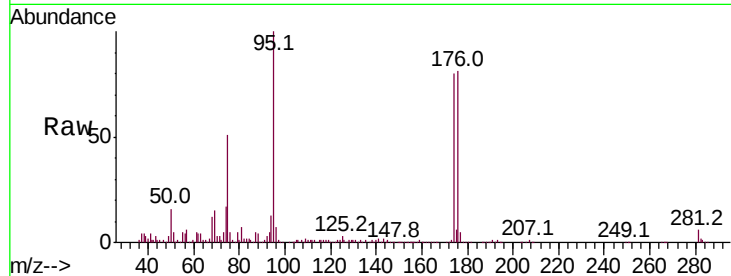




#62
4-Bromofluorobenzene
Concen: 53.223 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.00 min
Lab File: VD067040.D
Acq: 02 Oct 2020 17:20

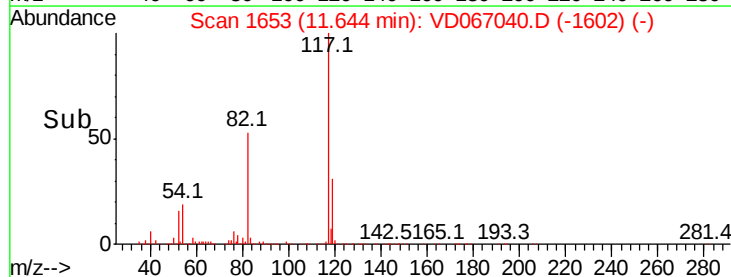
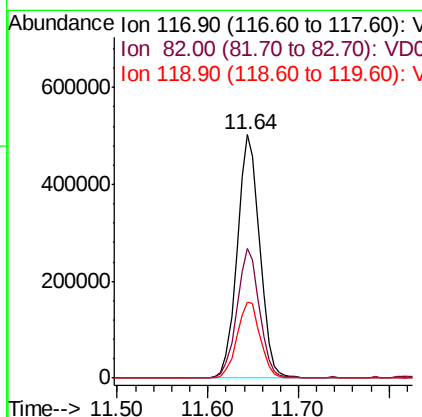
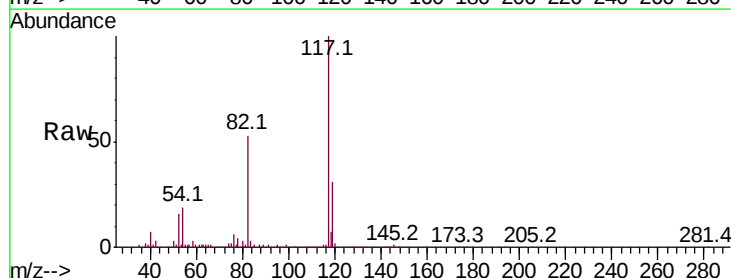
Instrument :
MSVOA_D
ClientSampleId :
B-17(13-15)

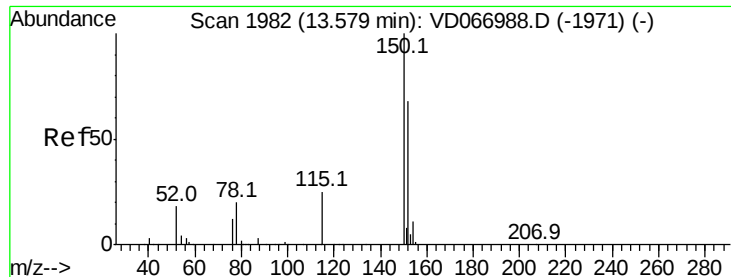
Tot Ion	95	Resp	389835
Ion Ratio	Lower	Upper	
95	100		
174	81.7	0.0	167.6
176	79.9	0.0	162.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. 0.00 min
Lab File: VD067040.D
Acq: 02 Oct 2020 17:20

Tgt Ion	117	Resp	865045
Ion Ratio	Lower	Upper	
117	100		
82	53.2	42.6	63.8
119	31.3	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: VD067040.D

Acq: 02 Oct 2020 17:20

Instrument :

MSVOA_D

ClientSampleId :

B-17(13-15)

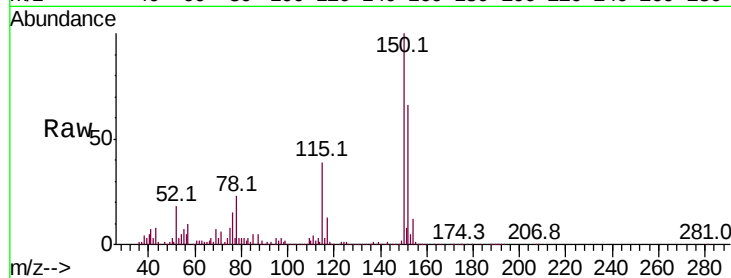
Tot Ion:152 Resp: 412458

Ion Ratio Lower Upper

152 100

115 56.7 29.6 88.8

150 149.7 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

500000

400000

300000

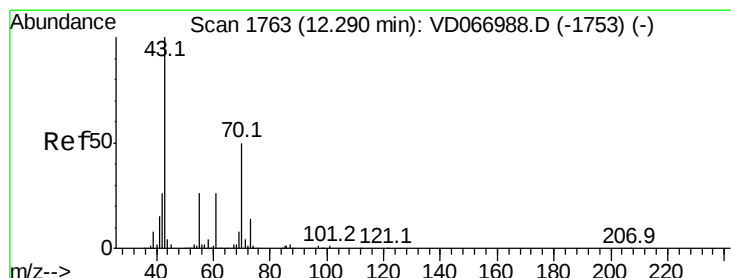
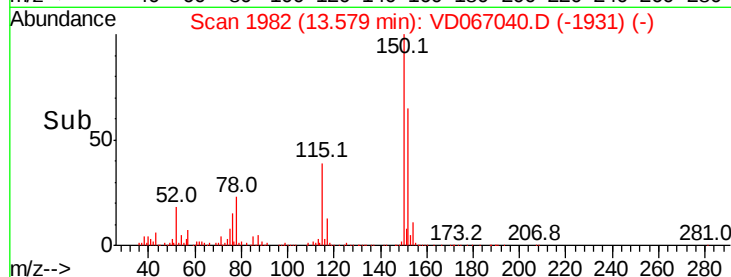
200000

100000

0

13.50 13.60

Time-->



#74

N-ethyl acetate

Concen: 9.753 ug/l

RT: 12.27 min Scan# 1760

Delta R.T. -0.02 min

Lab File: VD067040.D

Acq: 02 Oct 2020 17:20

Tgt Ion: 43 Resp: 49102

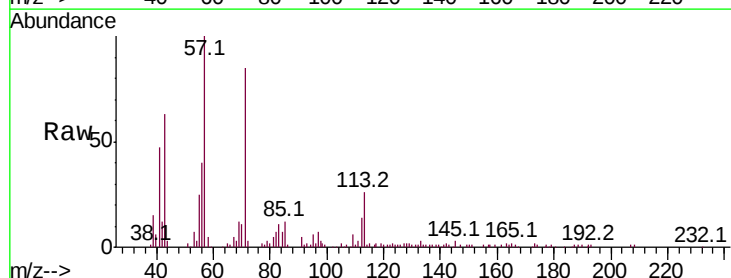
Ion Ratio Lower Upper

43 100

70 12.7 38.2 57.2#

55 0.0 22.4 33.6#

61 0.0 20.6 31.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

50000

40000

30000

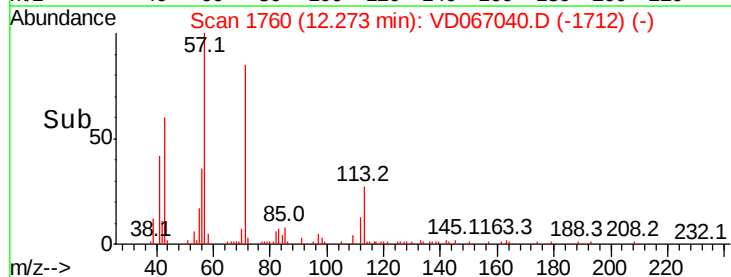
20000

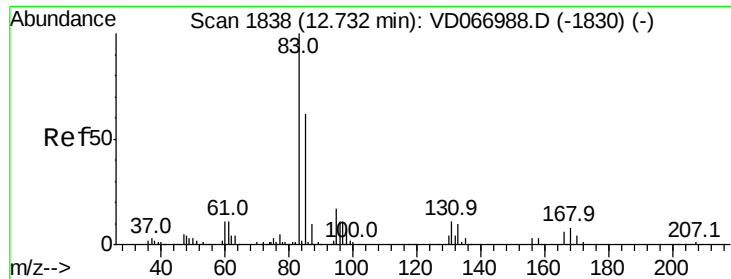
10000

0

12.20 12.25 12.30

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 1.158 ug/l

RT: 12.73 min Scan# 1837

Delta R.T. -0.01 min

Lab File: VD067040.D

Acq: 02 Oct 2020 17:20

Instrument :

MSVOA_D

ClientSampleId :

B-17(13-15)

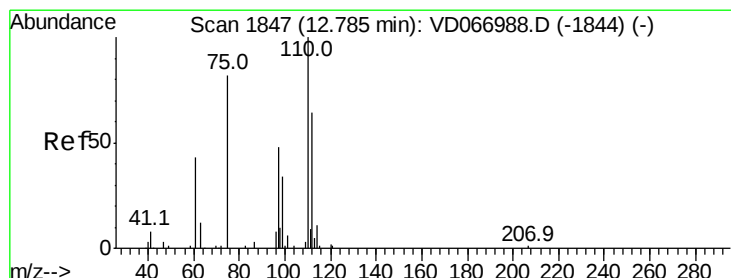
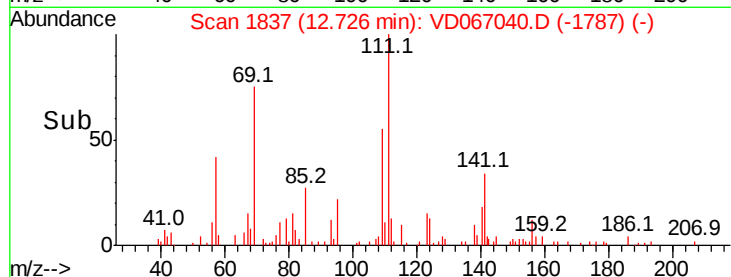
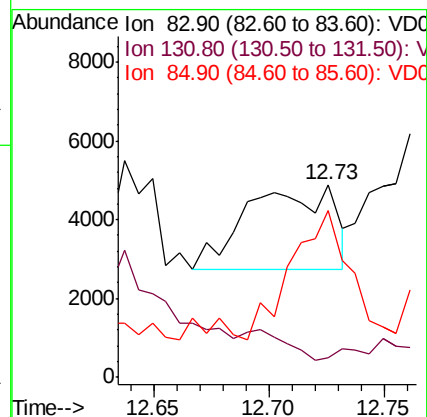
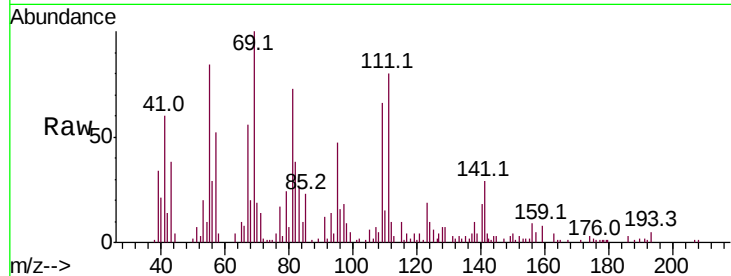
Tot Ion: 83 Resp: 5464

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

85 105.6 32.0 96.2#



#76

1,2,3-Trichloropropane

Concen: 52.915 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD067040.D

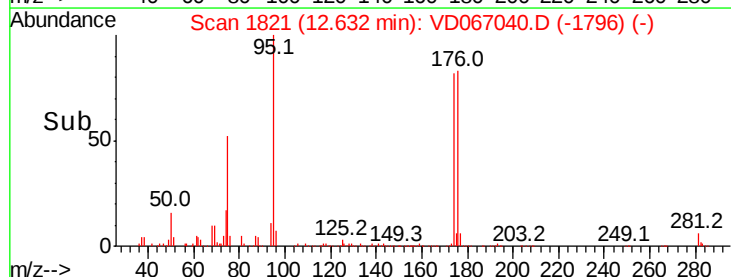
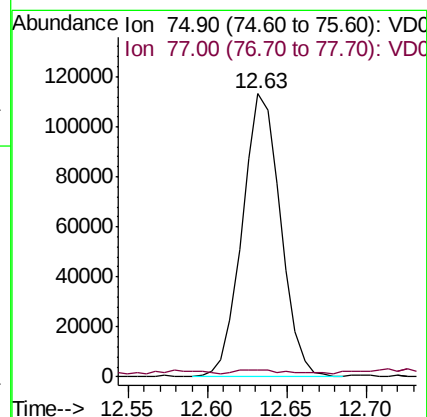
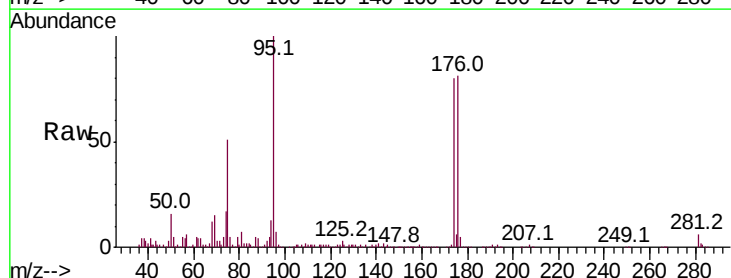
Acq: 02 Oct 2020 17:20

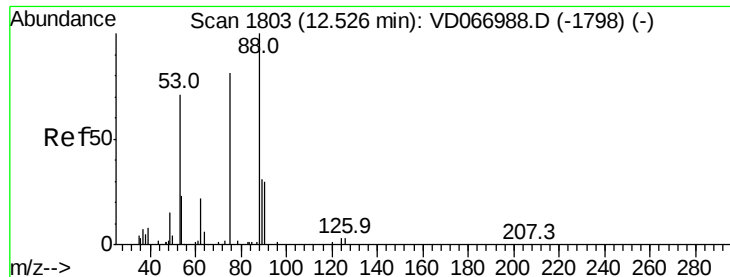
Tgt Ion: 75 Resp: 190105

Ion Ratio Lower Upper

75 100

77 1.7 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 131.924 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.11 min

Lab File: VD067040.D

Acq: 02 Oct 2020 17:20

Instrument :

MSVOA_D

ClientSampleId :

B-17(13-15)

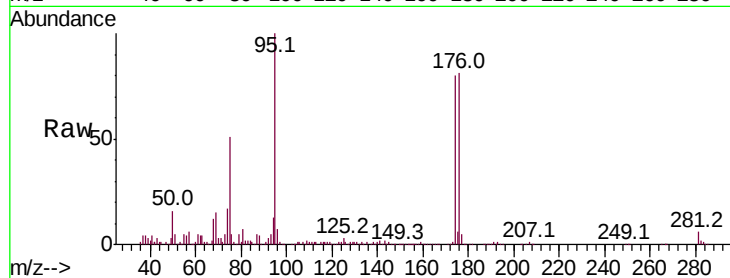
Tot Ion: 75 Resp: 190105

Ion Ratio Lower Upper

75 100

53 1.0 73.8 110.6#

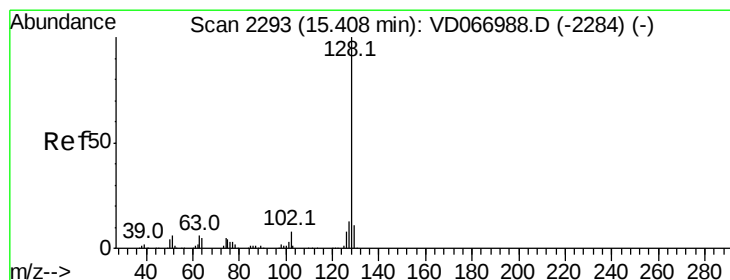
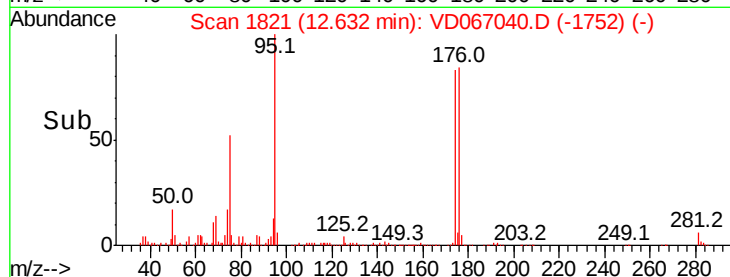
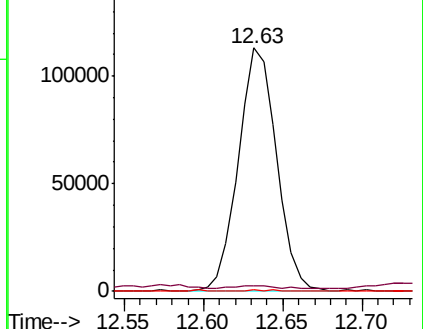
89 0.6 38.9 58.3#



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



#95

Naphthalene

Concen: 2.284 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.01 min

Lab File: VD067040.D

Acq: 02 Oct 2020 17:20

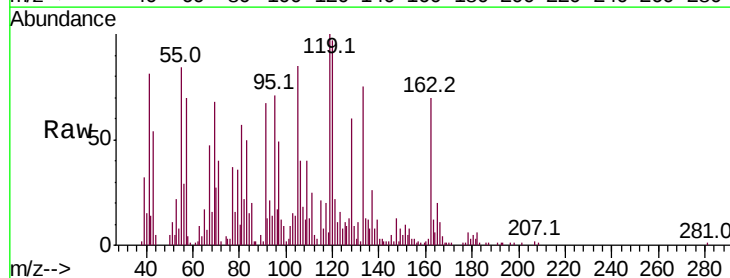
Tgt Ion:128 Resp: 28349

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 4.6 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

