

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD102020\
 Data File : VD067331.D
 Acq On : 20 Oct 2020 18:30
 Operator : VA/SY
 Sample : L4436-11
 Misc : 11.78G/5.00ml/MSVOA D/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 37B

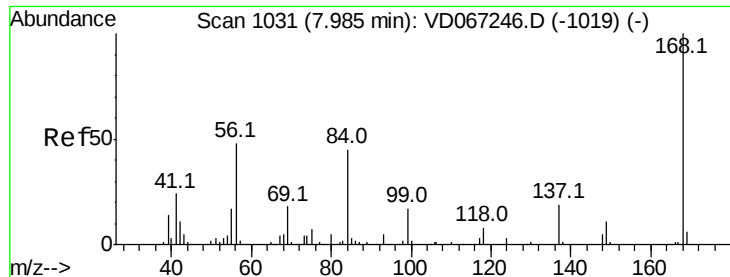
Quant Time: Oct 21 01:51:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D101320S.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 19 19:13:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	283323	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	486351	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	454045	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	176048	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	157084	55.34	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	110.68%	
35) Dibromofluoromethane	7.92	113	161174	49.80	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	99.60%	
50) Toluene-d8	10.34	98	573454	48.96	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.92%	
62) 4-Bromofluorobenzene	12.64	95	175200	43.02	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	86.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
20) Methylene Chloride	4.97	84	1315	Below Cal	#	81
29) Tetrahydrofuran	7.58	42	1197	4.752	ug/l #	67
31) Cyclohexane	7.98	56	5267	1.611	ug/l #	7
36) 1,1-Dichloropropene	7.98	75	19344	4.693	ug/l #	47
38) Carbon Tetrachloride	7.98	117	29398	5.580	ug/l #	19
49) 1,4-Dioxane	9.46	88	55	Below Cal	#	27
51) 4-Methyl-2-Pentanone	10.34	43	1982	1.651	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	90216	73.937	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	90216	167.666	ug/l #	10

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067331.D

Acq: 20 Oct 2020 18:30

Instrument :

MSVOA_D

ClientSampleId :

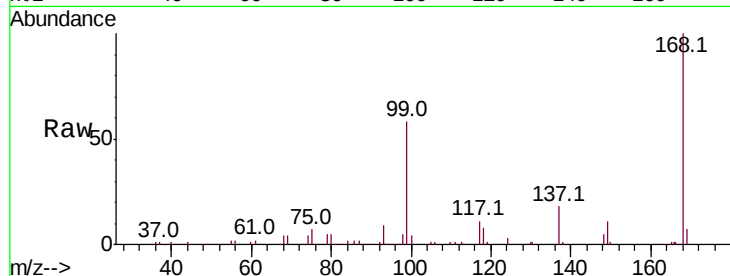
37B

Tot Ion:168 Resp: 283323

Ion Ratio Lower Upper

168 100

99 58.0 45.9 68.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

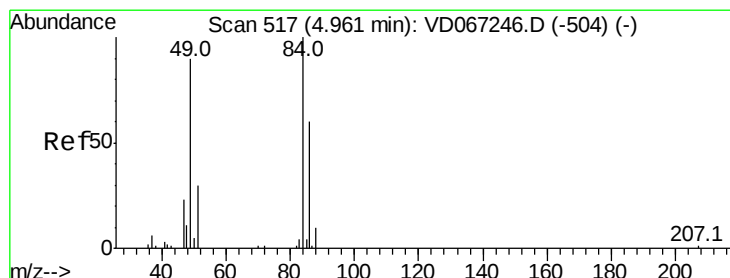
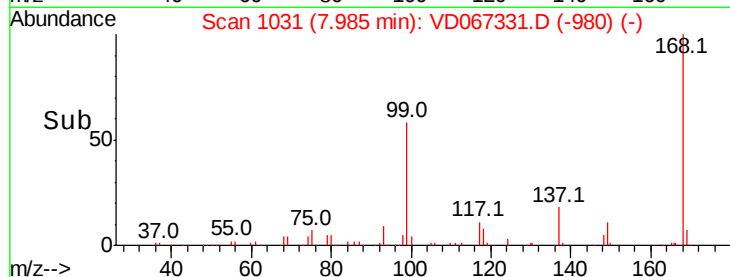
100000

50000

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Time-->

7.90 8.00 8.10



#20

Methylene Chloride

Concen: Below Cal

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD067331.D

Acq: 20 Oct 2020 18:30

Tgt Ion: 84 Resp: 1315

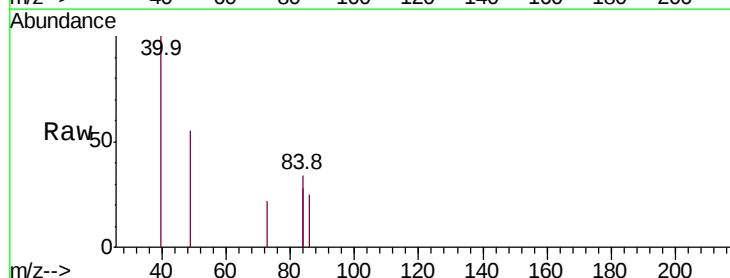
Ion Ratio Lower Upper

84 100

49 88.3 72.2 108.2

51 0.0 23.8 35.8#

86 39.8 48.2 72.4#



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

1000

800

600

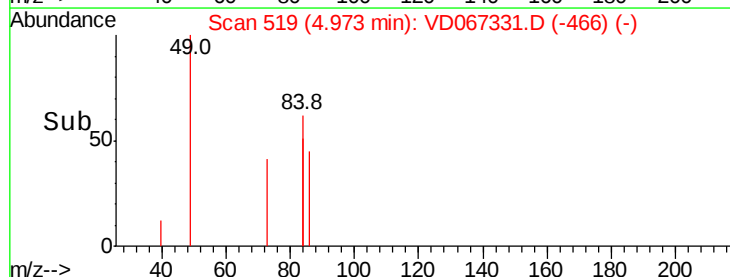
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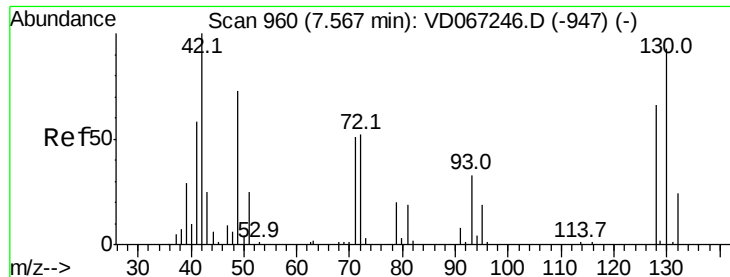
200

0

Time-->

4.90 4.95 5.00





#29

Tetrahydrofuran

Concen: 4.752 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.01 min

Lab File: VD067331.D

Acq: 20 Oct 2020 18:30

Instrument :

MSVOA_D

ClientSampled :

37B

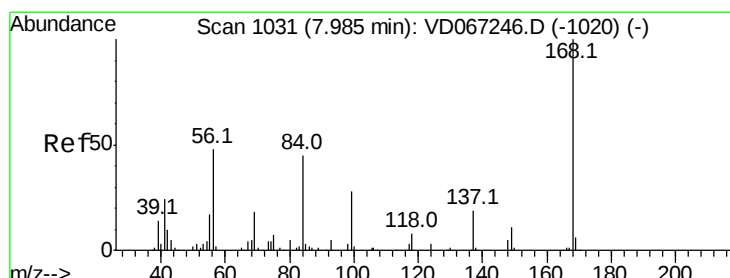
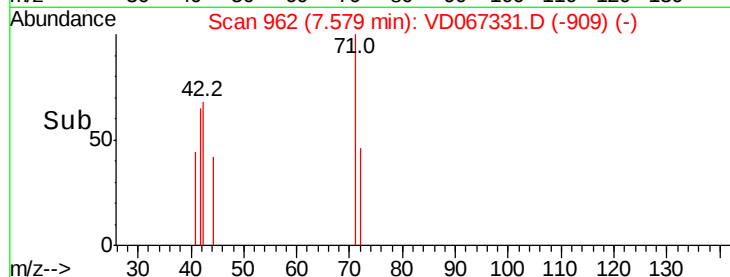
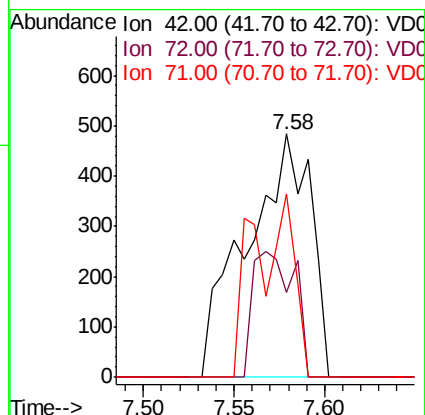
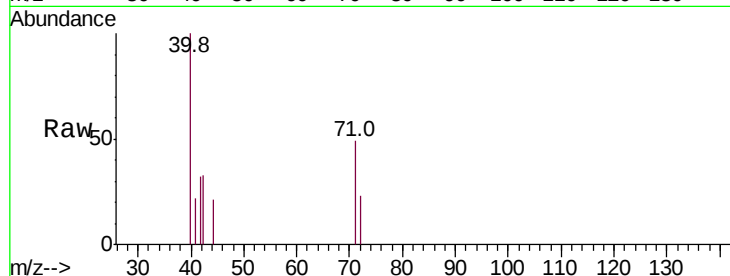
Tot Ion: 42 Resp: 1197

Ion Ratio Lower Upper

42 100

72 33.0 43.2 64.8#

71 23.7 39.4 59.0#



#31

Cyclohexane

Concen: 1.611 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067331.D

Acq: 20 Oct 2020 18:30

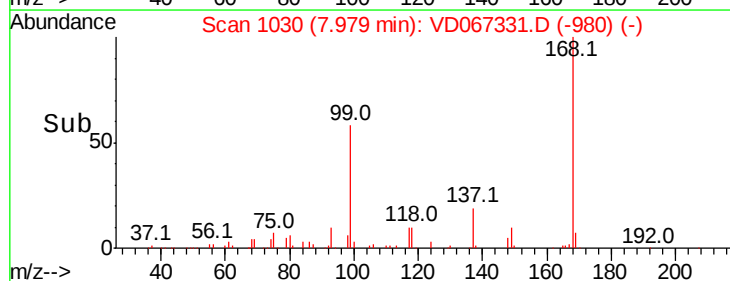
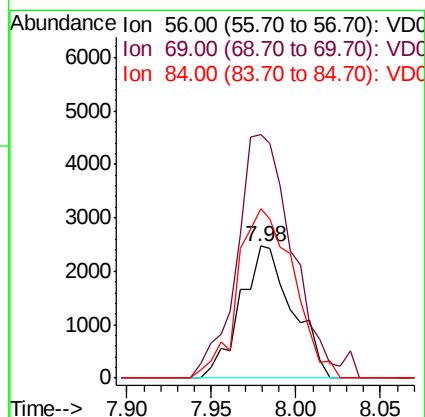
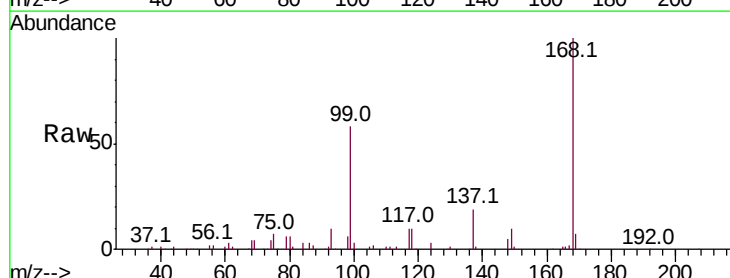
Tgt Ion: 56 Resp: 5267

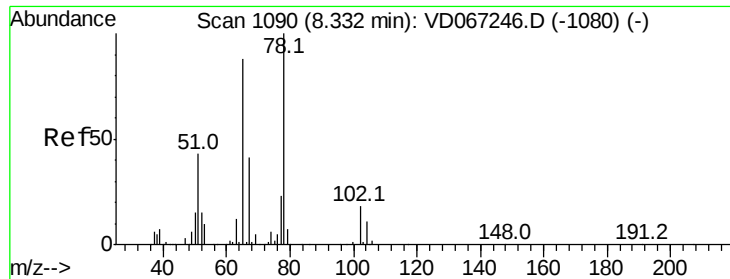
Ion Ratio Lower Upper

56 100

69 184.7 29.8 44.6#

84 128.5 76.6 114.8#





#33

1,2-Dichloroethane-d4

Concen: 55.341 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD067331.D

Acq: 20 Oct 2020 18:30

Instrument :

MSVOA_D

ClientSampleId :

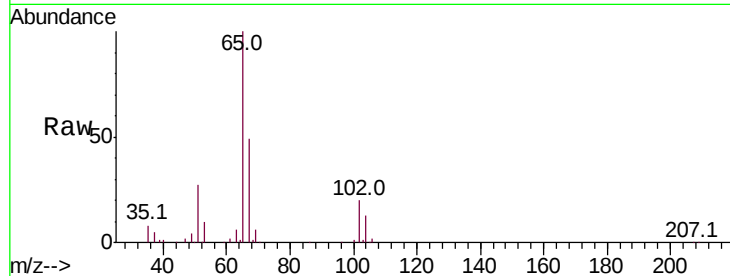
37B

Tot Ion: 65 Resp: 157084

Ion Ratio Lower Upper

65 100

67 49.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

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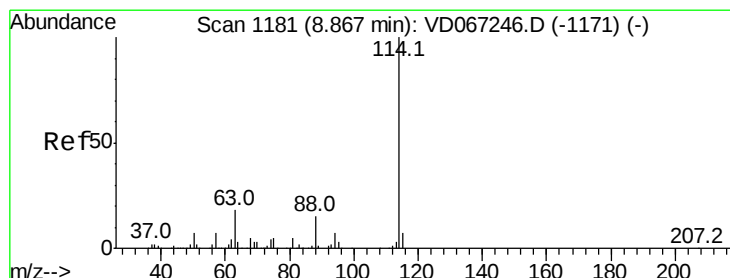
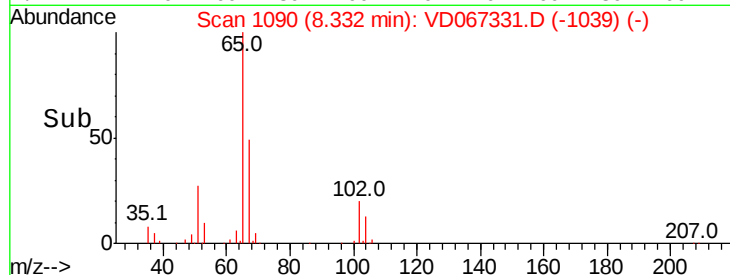
8.33

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067331.D

Acq: 20 Oct 2020 18:30

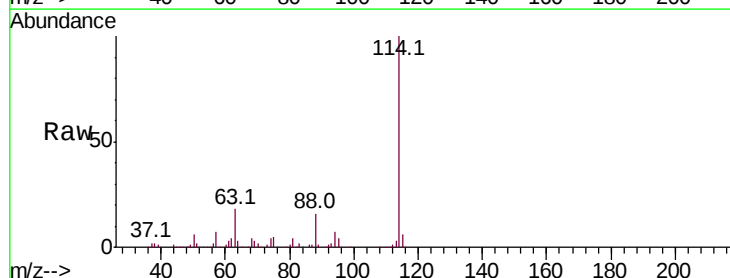
Tgt Ion: 114 Resp: 486351

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.0

88 15.6 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

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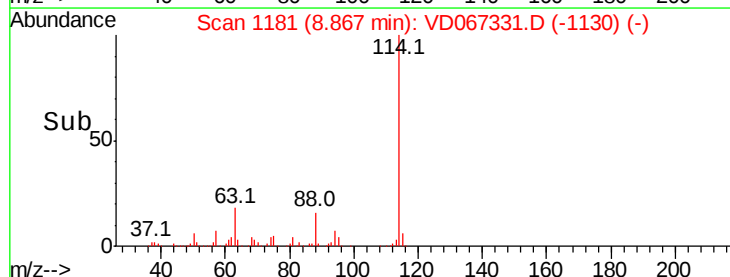
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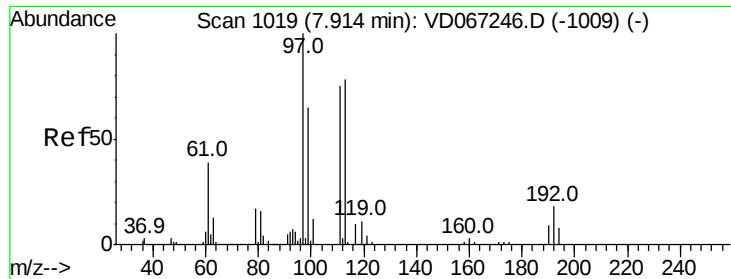
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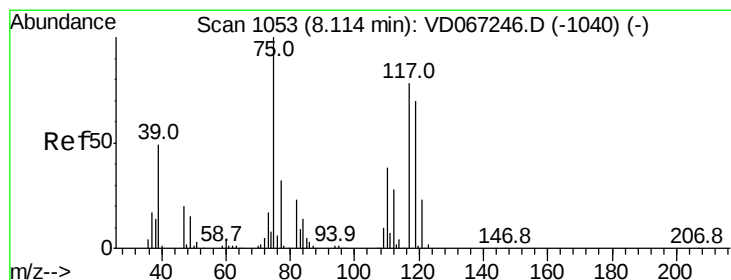
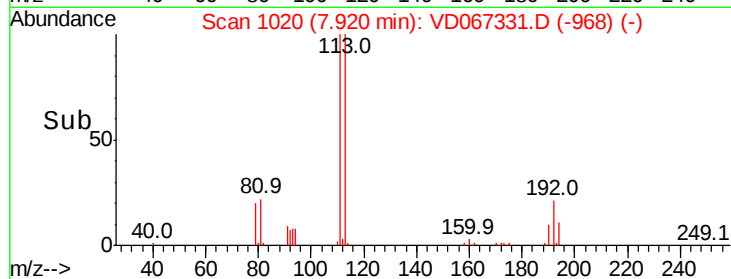
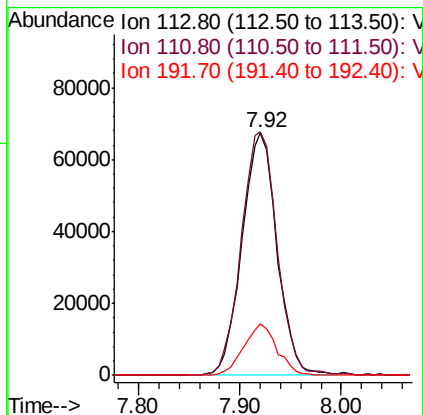
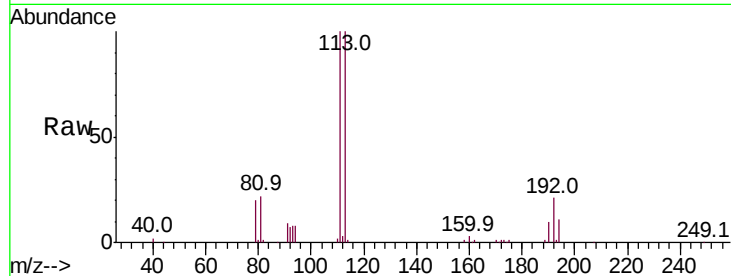
8.87



#35
 Dibromofluoromethane
 Concen: 49.796 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.01 min
 Lab File: VD067331.D
 Acq: 20 Oct 2020 18:30

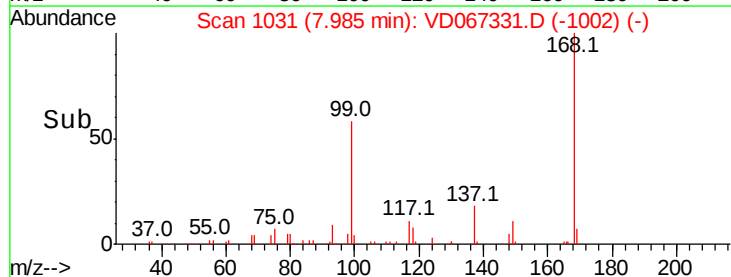
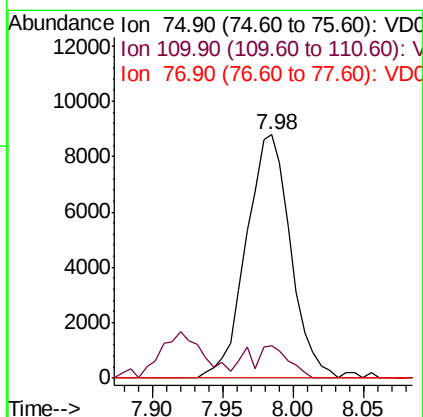
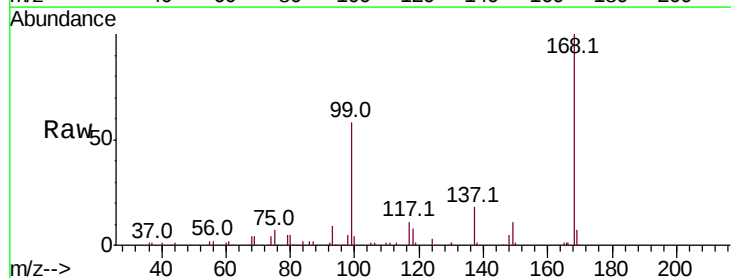
Instrument :
 MSVOA_D
 ClientSampled :
 37B

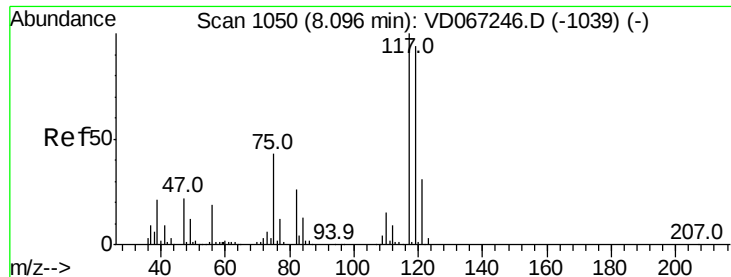
Tot Ion:113 Resp: 161174
 Ion Ratio Lower Upper
 113 100
 111 103.3 81.6 122.4
 192 20.2 17.0 25.4



#36
 1,1-Dichloropropene
 Concen: 4.693 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD067331.D
 Acq: 20 Oct 2020 18:30

Tgt Ion: 75 Resp: 19344
 Ion Ratio Lower Upper
 75 100
 110 8.3 19.6 58.7#
 77 0.0 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 5.580 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD067331.D

Acq: 20 Oct 2020 18:30

Instrument :

MSVOA_D

ClientSampleId :

37B

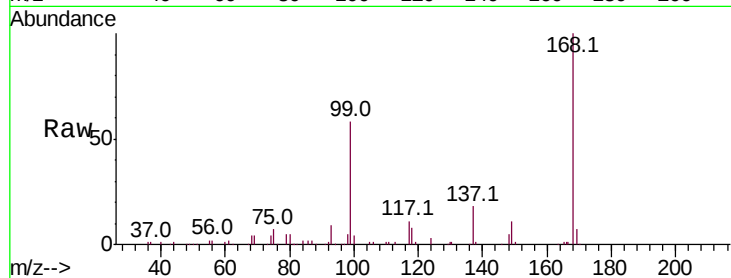
Tot Ion:117 Resp: 29398

Ion Ratio Lower Upper

117 100

119 7.2 75.0 112.4#

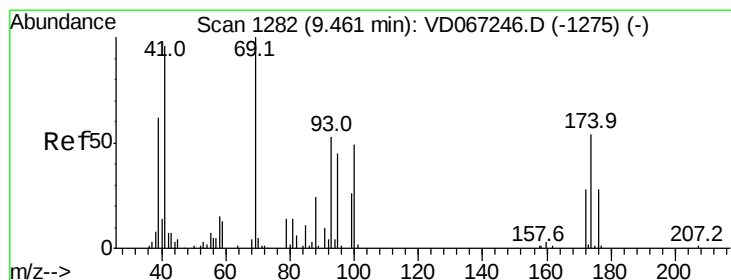
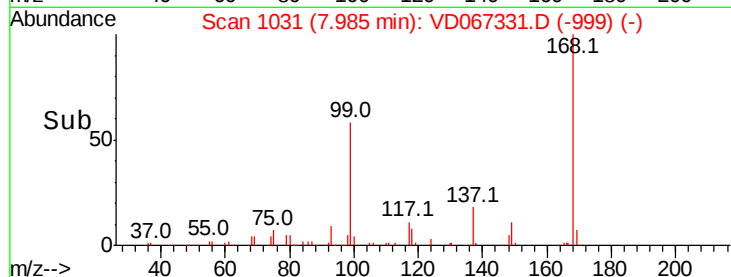
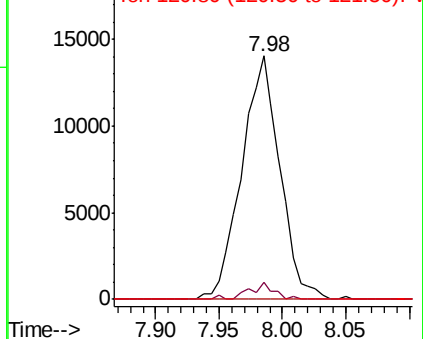
121 0.0 24.9 37.3#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 9.46 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VD067331.D

Acq: 20 Oct 2020 18:30

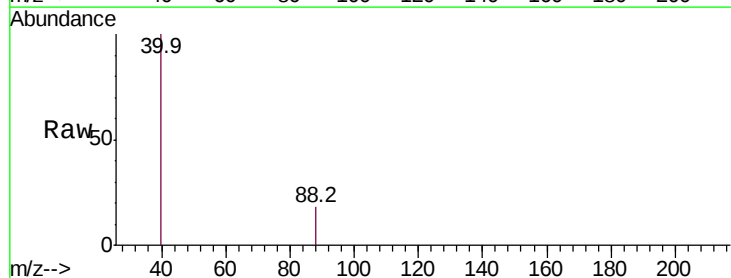
Tgt Ion: 88 Resp: 55

Ion Ratio Lower Upper

88 100

43 0.0 23.9 35.9#

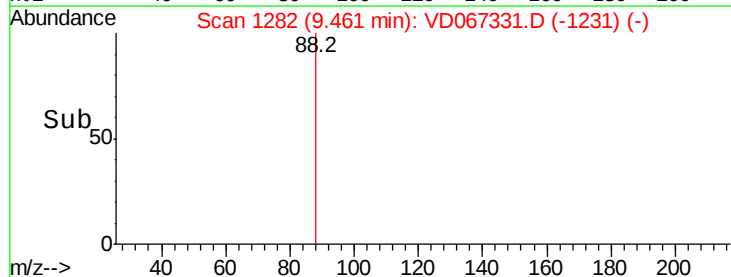
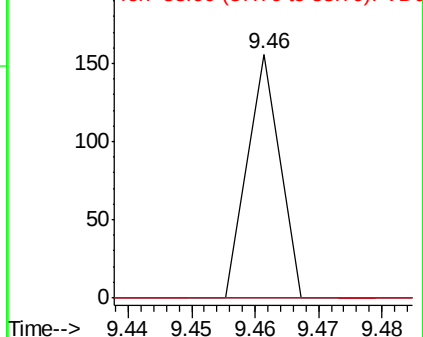
58 0.0 51.0 76.6#

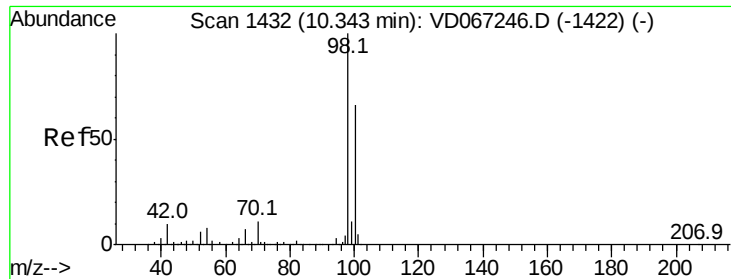


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

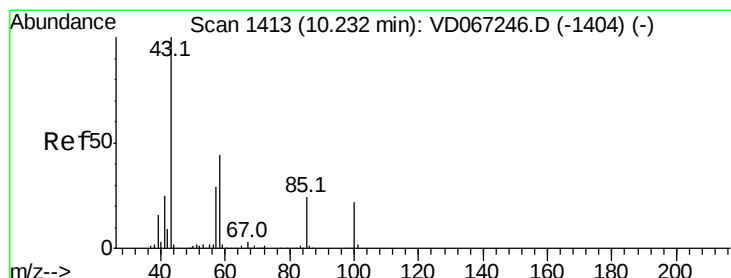
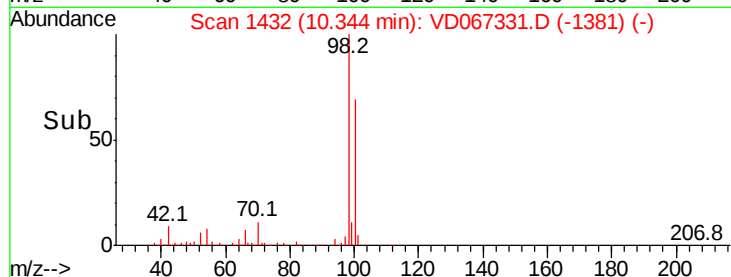
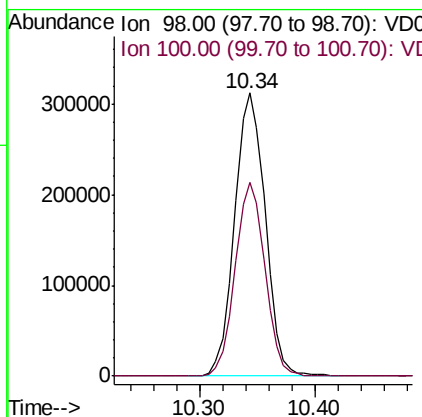
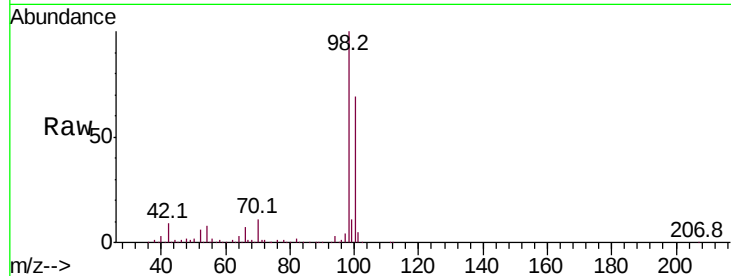




#50
Toluene-d8
Concen: 48.958 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067331.D
Acq: 20 Oct 2020 18:30

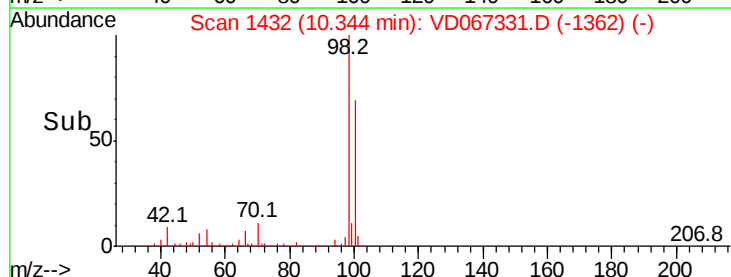
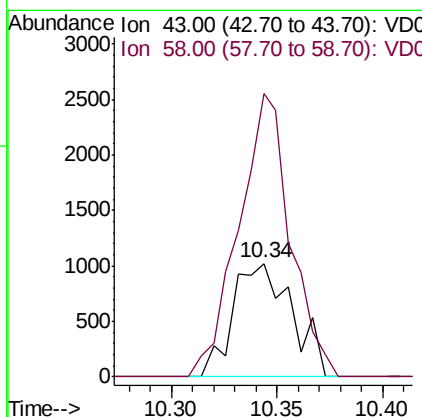
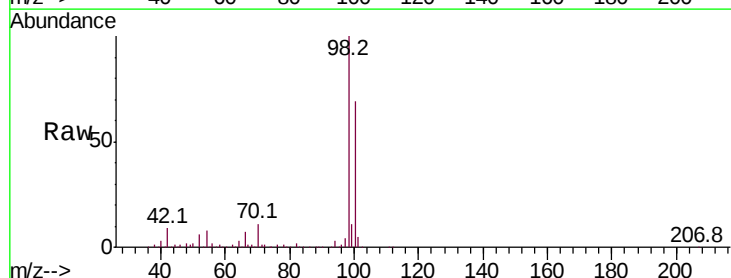
Instrument :
MSVOA_D
ClientSampleId :
37B

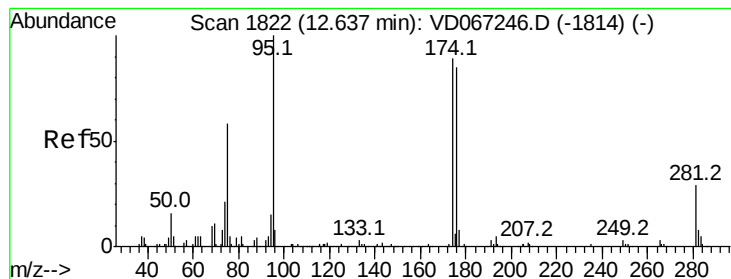
Tot Ion: 98 Resp: 573454
Ion Ratio Lower Upper
98 100
100 67.0 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 1.651 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.11 min
Lab File: VD067331.D
Acq: 20 Oct 2020 18:30

Tgt Ion: 43 Resp: 1982
Ion Ratio Lower Upper
43 100
58 219.5 35.7 53.5#





#62

4-Bromofluorobenzene

Concen: 43.016 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD067331.D

Acq: 20 Oct 2020 18:30

Instrument :

MSVOA_D

ClientSampleId :

37B

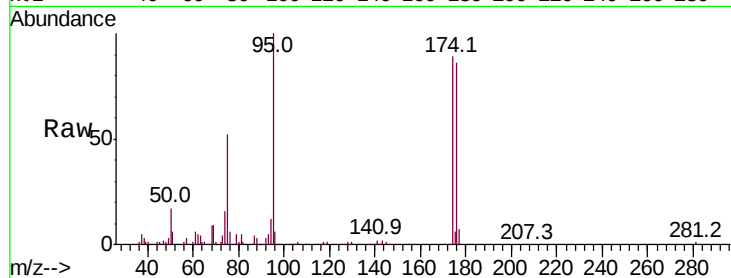
Tot Ion: 95 Resp: 175200

Ion Ratio Lower Upper

95 100

174 87.5 0.0 175.2

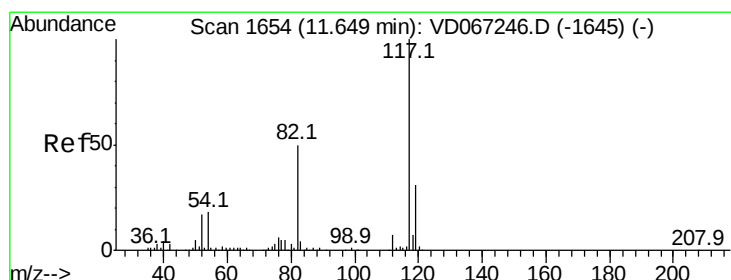
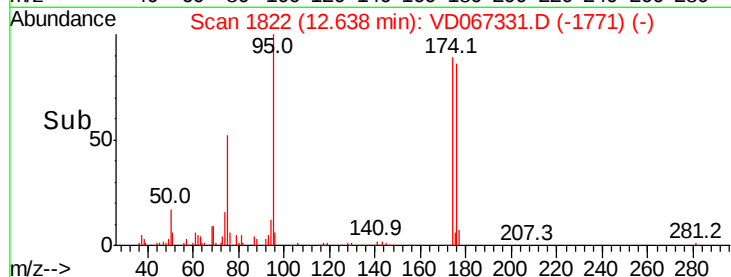
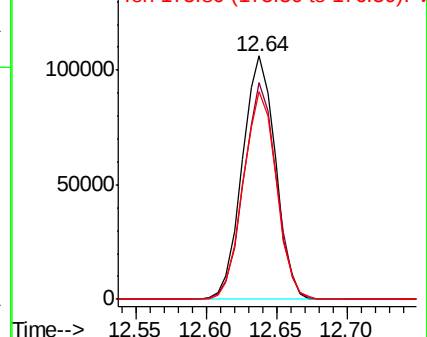
176 85.3 0.0 168.6



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: 11.65 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VD067331.D

Acq: 20 Oct 2020 18:30

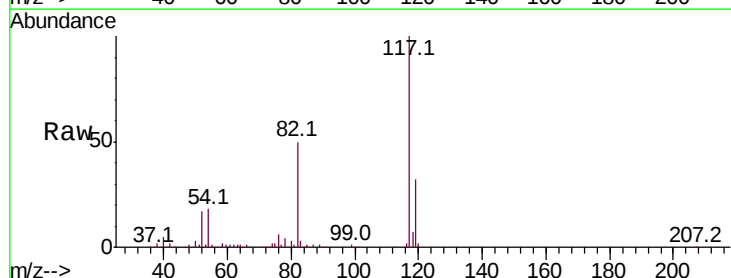
Tgt Ion: 117 Resp: 454045

Ion Ratio Lower Upper

117 100

82 49.8 39.9 59.9

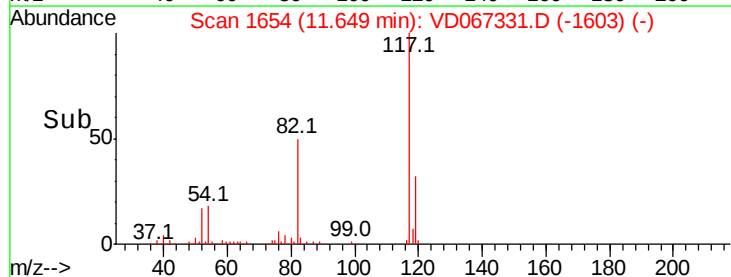
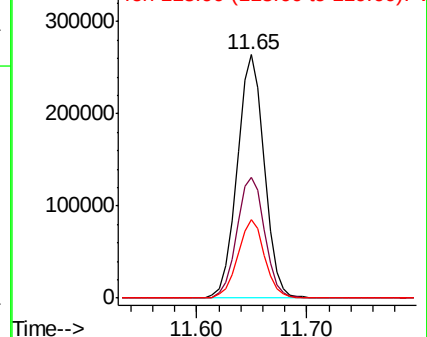
119 32.2 24.9 37.3

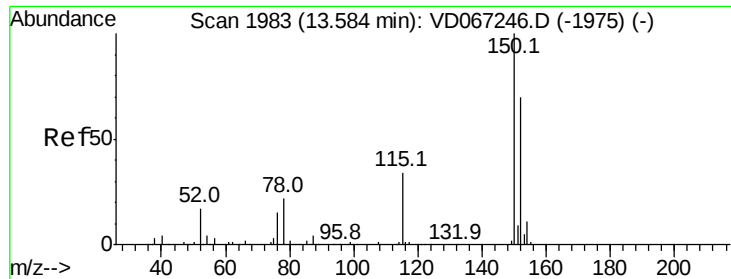


Abundance Ion 116.90 (116.60 to 117.60): V

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. -0.01 min

Lab File: VD067331.D

Acq: 20 Oct 2020 18:30

Instrument :

MSVOA_D

ClientSampleId :

37B

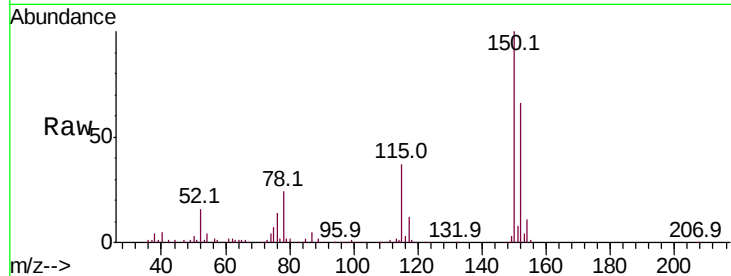
Tot Ion:152 Resp: 176048

Ion Ratio Lower Upper

152 100

115 56.6 29.3 87.9

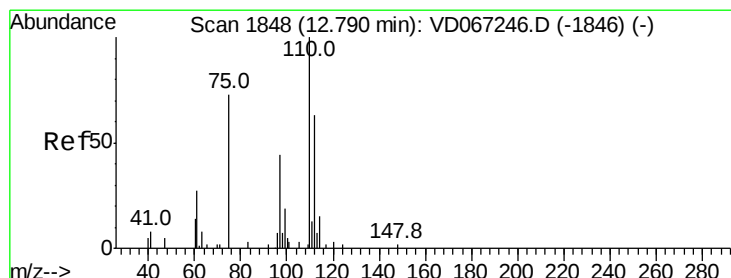
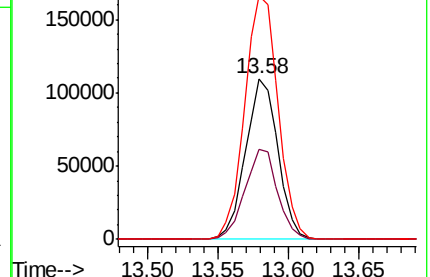
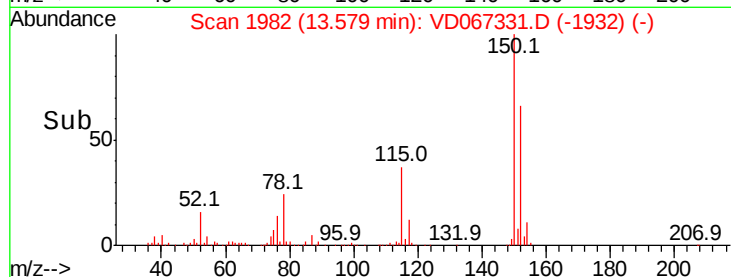
150 156.5 0.0 339.0



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: 73.937 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067331.D

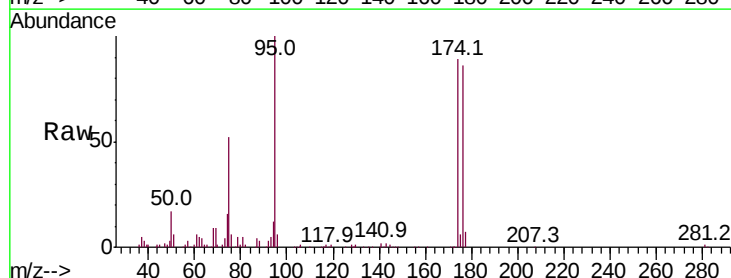
Acq: 20 Oct 2020 18:30

Tgt Ion: 75 Resp: 90216

Ion Ratio Lower Upper

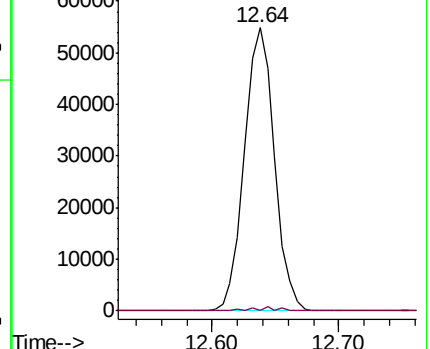
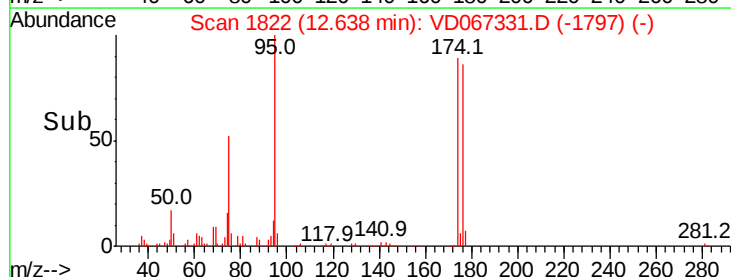
75 100

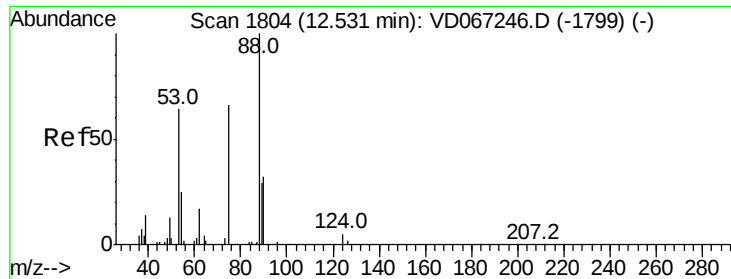
77 0.5 0.0 0.0#



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: 167.666 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067331.D

Acq: 20 Oct 2020 18:30

Instrument :

MSVOA_D

ClientSampleId :

37B

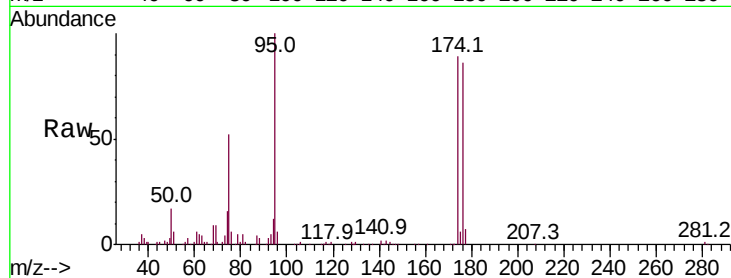
Tot Ion: 75 Resp: 90216

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 39.9 59.9#



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

