

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120720\
 Data File : VD067897.D
 Acq On : 07 Dec 2020 14:09
 Operator : VA/SY
 Sample : L4970-03
 Misc : 6.97G/5.00ml/MSVOA D/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 4S2-D-BOTTOM

Quant Time: Dec 08 03:14:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D120120S.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 02 08:05:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	210698	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	287162	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	236143	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	93034	50.00	ug/l	0.00

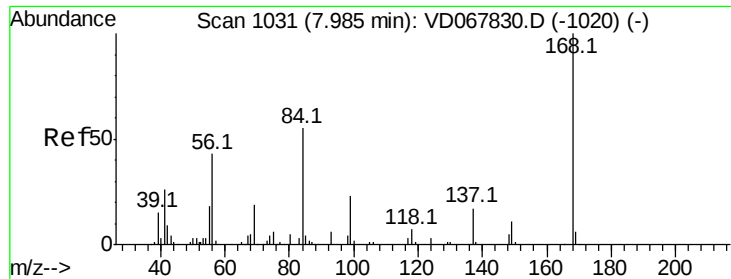
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	103648	45.82	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	91.64%
35) Dibromofluoromethane	7.92	113	86462	45.00	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	90.00%
50) Toluene-d8	10.34	98	314281	45.44	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	90.88%
62) 4-Bromofluorobenzene	12.64	95	89625	37.48	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	74.96%

Target Compounds

					Qvalue	
11) Tert butyl alcohol	5.23	59	89	Below Cal	#	74
16) Acetone	4.17	43	545	1.950	ug/l #	47
20) Methylene Chloride	4.96	84	10903	2.086	ug/l	96
29) Tetrahydrofuran	7.57	42	455	2.718	ug/l #	38
31) Cyclohexane	7.98	56	4164	1.747	ug/l #	32
36) 1,1-Dichloropropene	7.98	75	15165	6.100	ug/l #	51
38) Carbon Tetrachloride	7.98	117	21109	5.612	ug/l #	13
41) Methacrylonitrile	7.57	41	429	Below Cal	#	14
51) 4-Methyl-2-Pentanone	10.34	43	1384	2.218	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	50742	74.896	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.64	75	50742	179.157	ug/l #	7

(#) = 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: VD067897.D

Acq: 07 Dec 2020 14:09

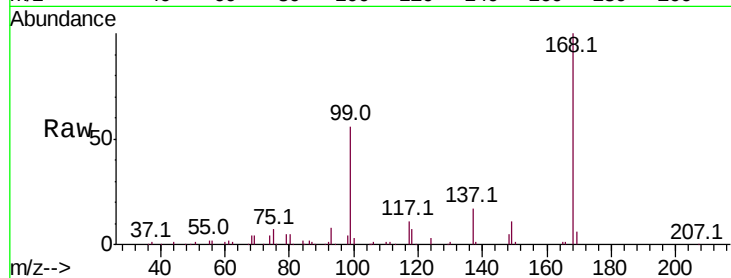
Instrument :
MSVOA_D
ClientSampleId :
4S2-D-BOTTOM

Tot Ion:168 Resp: 210698

Ion Ratio Lower Upper

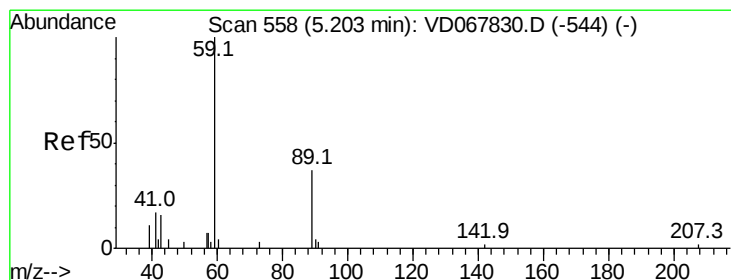
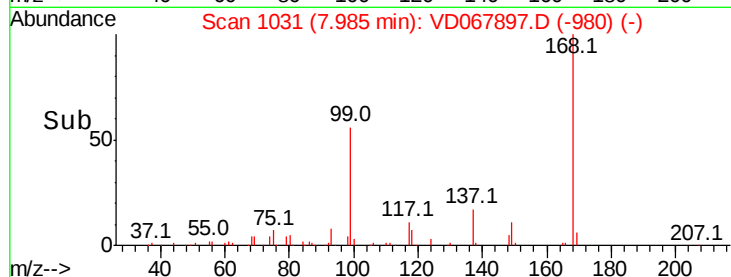
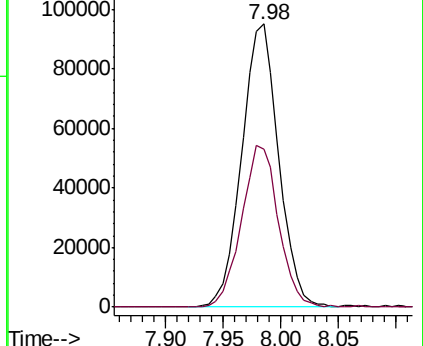
168 100

99 55.4 47.1 70.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.23 min Scan# 563

Delta R.T. 0.03 min

Lab File: VD067897.D

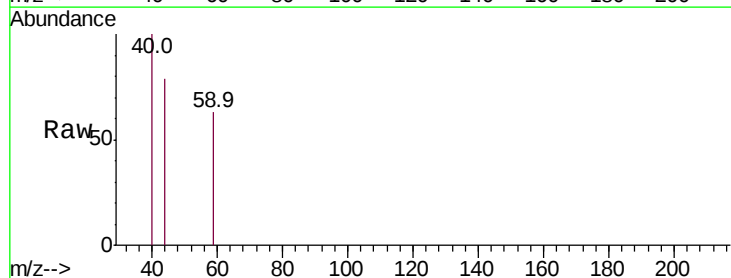
Acq: 07 Dec 2020 14:09

Tgt Ion: 59 Resp: 89

Ion Ratio Lower Upper

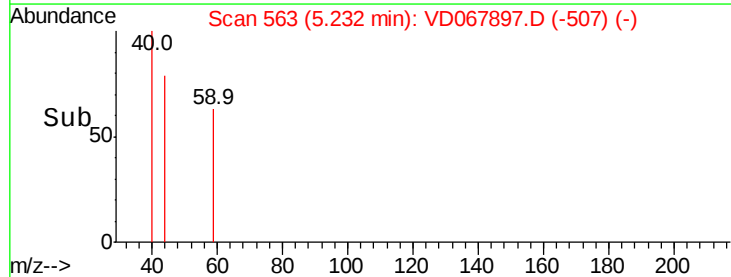
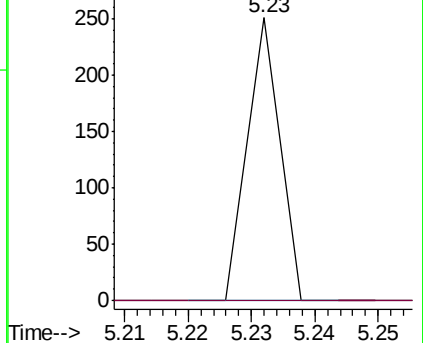
59 100

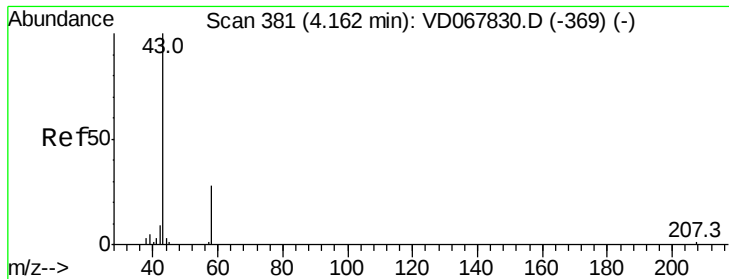
57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 1.950 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.01 min

Lab File: VD067897.D

Acq: 07 Dec 2020 14:09

Instrument :

MSVOA_D

ClientSampleId :

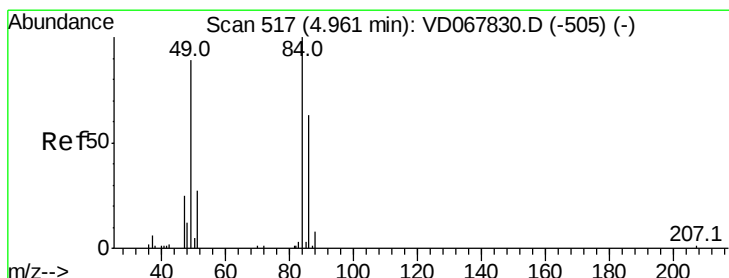
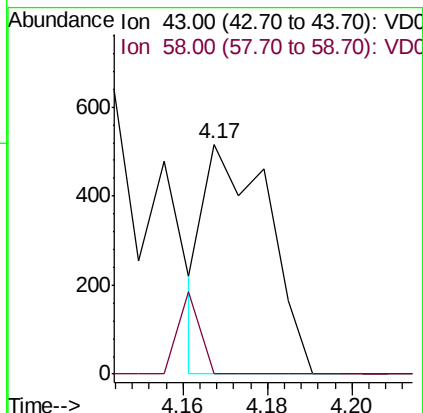
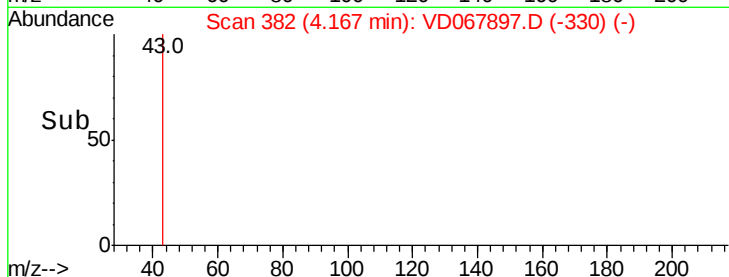
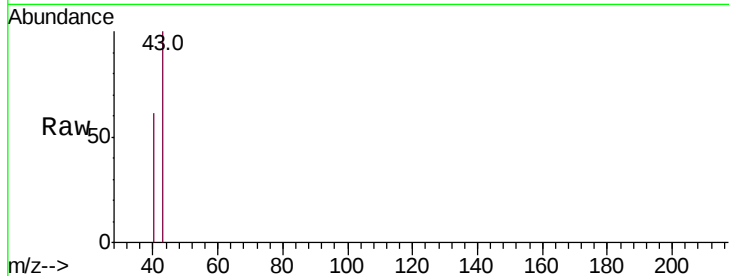
4S2-D-BOTTOM

Tot Ion: 43 Resp: 545

Ion Ratio Lower Upper

43 100

58 0.0 21.9 32.9#



#20

Methylene Chloride

Concen: 2.086 ug/l

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD067897.D

Acq: 07 Dec 2020 14:09

Tgt Ion: 84 Resp: 10903

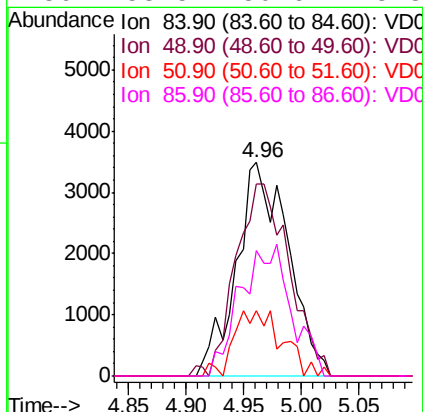
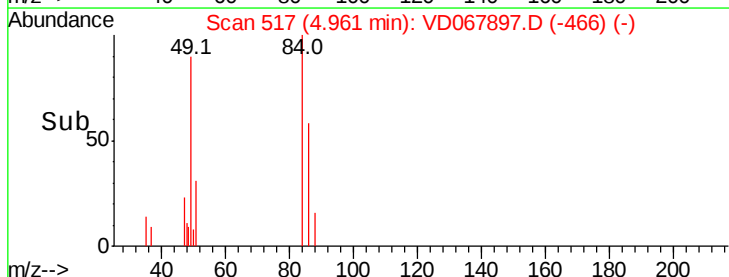
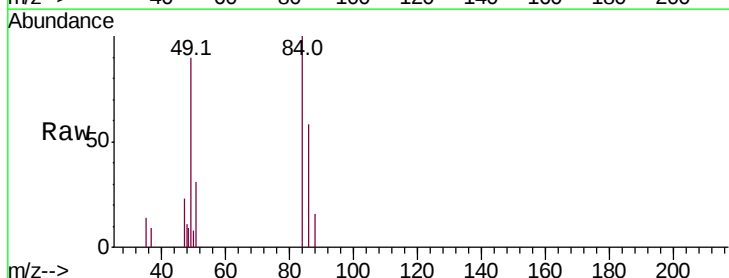
Ion Ratio Lower Upper

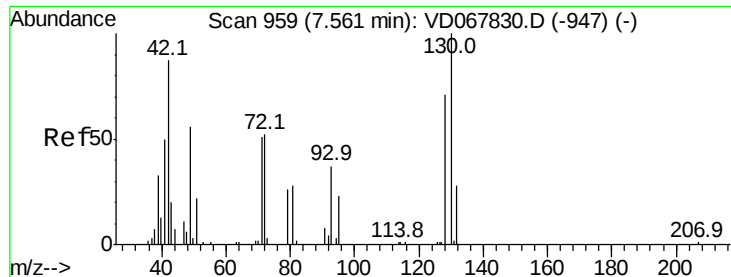
84 100

49 89.9 71.4 107.0

51 30.8 21.8 32.8

86 58.5 50.6 75.8





#29

Tetrahydrofuran

Concen: 2.718 ug/l

RT: 7.57 min Scan# 961

Delta R.T. 0.01 min

Lab File: VD067897.D

Acq: 07 Dec 2020 14:09

Instrument :

MSVOA_D

ClientSampleId :

4S2-D-BOTTOM

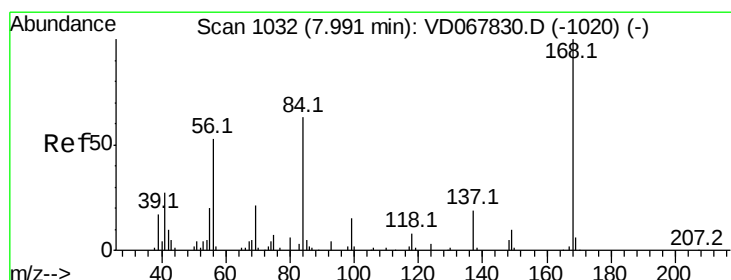
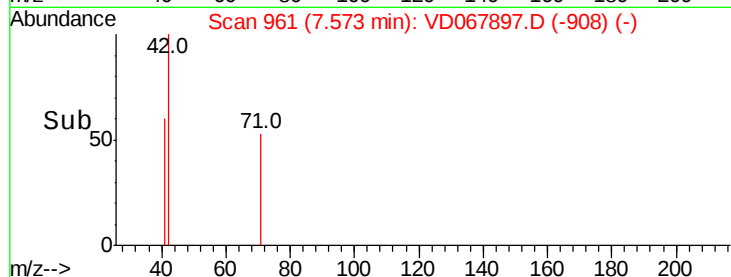
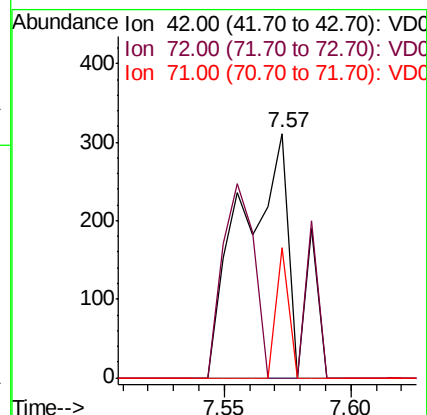
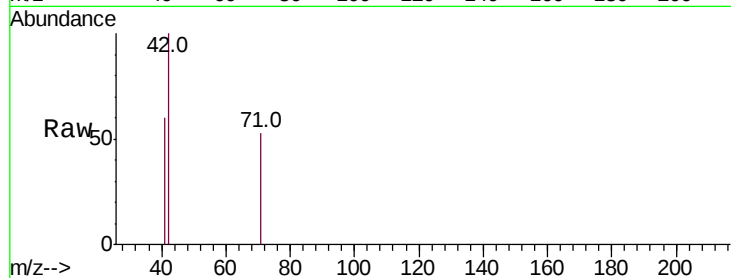
Tot Ion: 42 Resp: 455

Ion Ratio Lower Upper

42 100

72 15.6 51.9 77.9#

71 13.0 48.2 72.4#



#31

Cyclohexane

Concen: 1.747 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067897.D

Acq: 07 Dec 2020 14:09

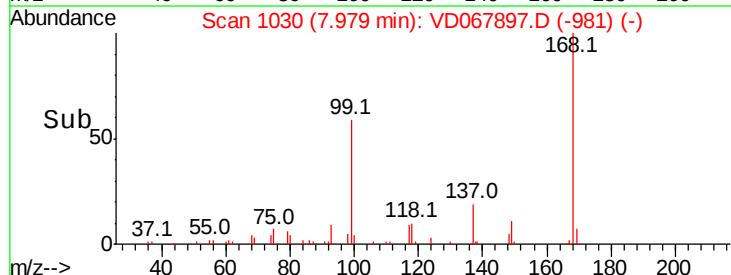
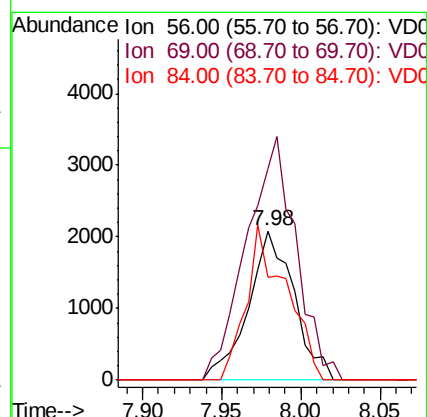
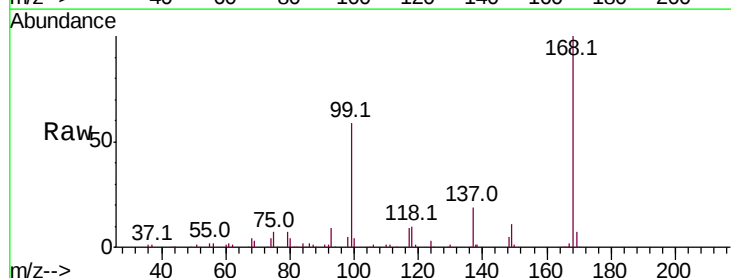
Tgt Ion: 56 Resp: 4164

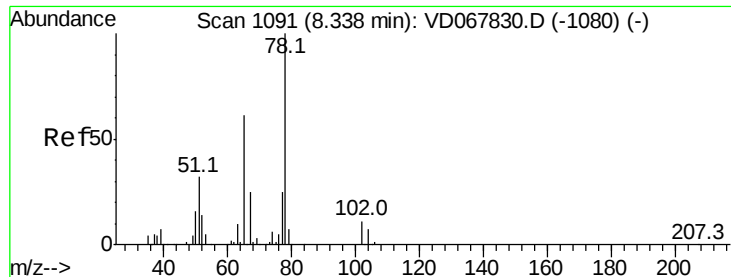
Ion Ratio Lower Upper

56 100

69 141.4 32.1 48.1#

84 77.9 93.2 139.8#

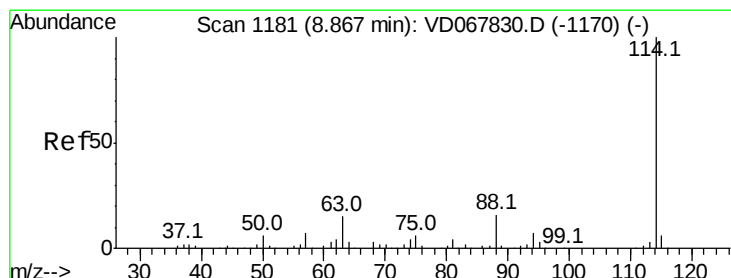
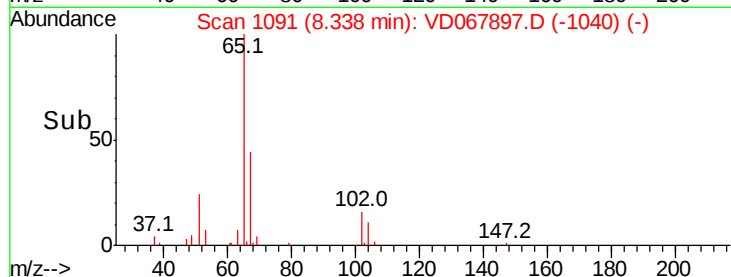
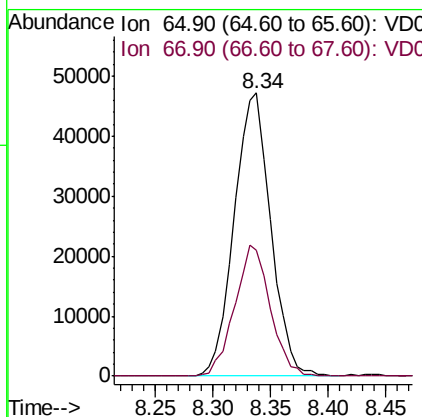
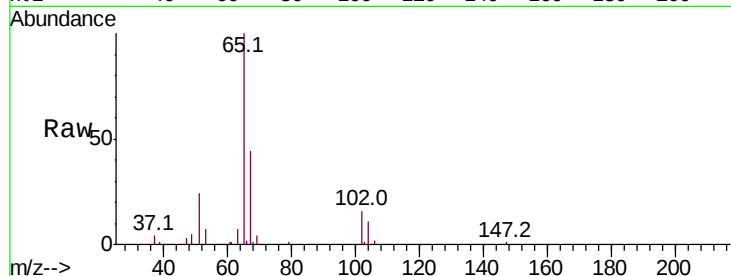




#33
 1,2-Dichloroethane-d4
 Concen: 45.823 ug/l
 RT: 8.34 min Scan# 1091
 Delta R.T. -0.00 min
 Lab File: VD067897.D
 Acq: 07 Dec 2020 14:09

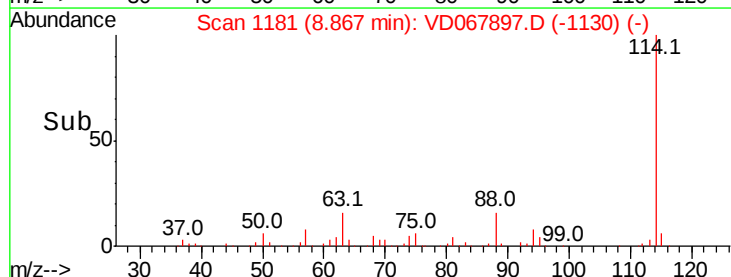
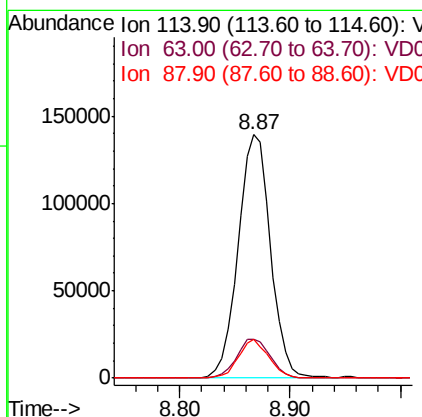
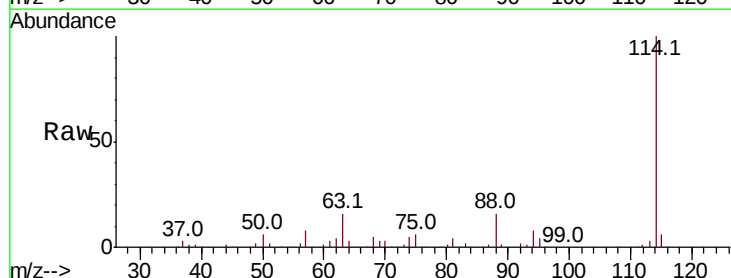
Instrument :
 MSVOA_D
 ClientSampleId :
 4S2-D-BOTTOM

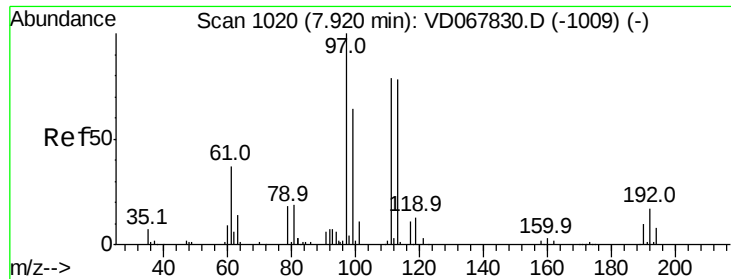
Tot Ion: 65 Resp: 103648
 Ion Ratio Lower Upper
 65 100
 67 45.1 0.0 92.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. -0.00 min
 Lab File: VD067897.D
 Acq: 07 Dec 2020 14:09

Tgt Ion: 114 Resp: 287162
 Ion Ratio Lower Upper
 114 100
 63 16.2 0.0 30.8
 88 15.7 0.0 31.8

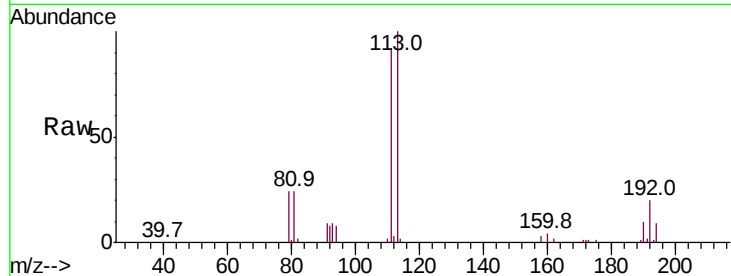




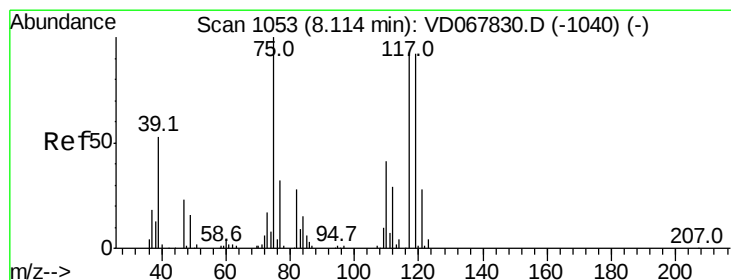
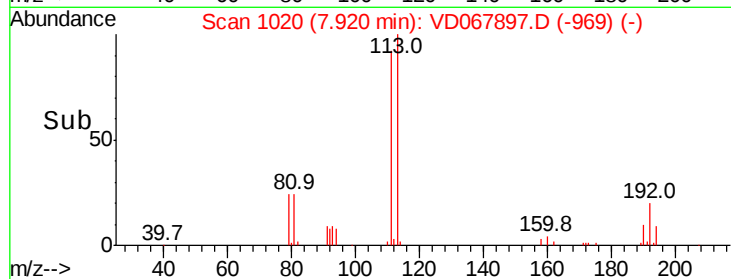
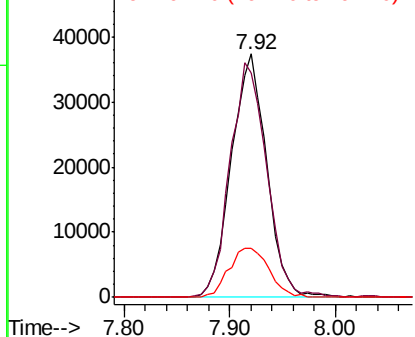
#35
 Dibromofluoromethane
 Concen: 44.996 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD067897.D
 Acq: 07 Dec 2020 14:09

Instrument :
 MSVOA_D
 ClientSampleId :
 4S2-D-BOTTOM

Tot Ion:113 Resp: 86462
 Ion Ratio Lower Upper
 113 100
 111 100.0 81.2 121.8
 192 23.0 16.8 25.2

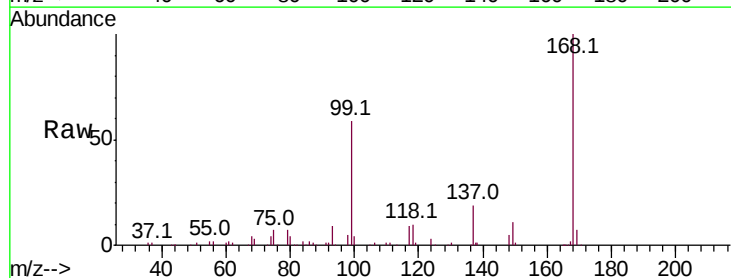


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

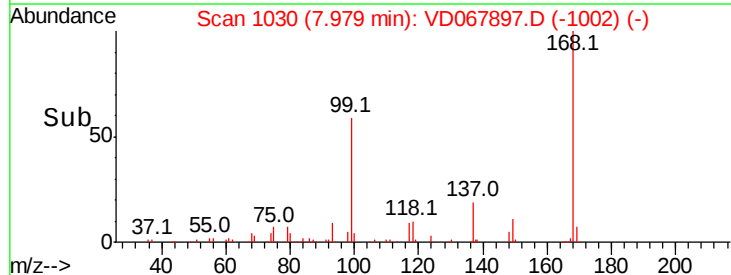
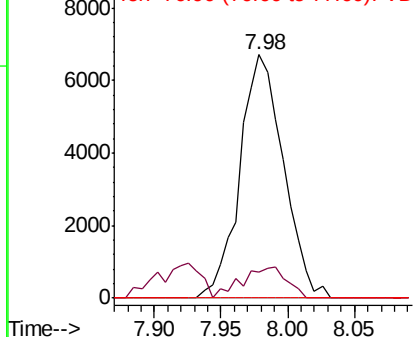


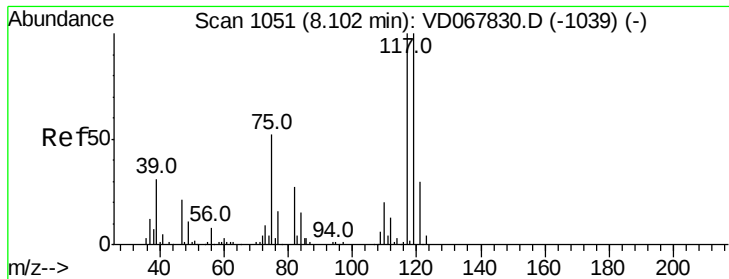
#36
 1,1-Dichloropropene
 Concen: 6.100 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD067897.D
 Acq: 07 Dec 2020 14:09

Tgt Ion: 75 Resp: 15165
 Ion Ratio Lower Upper
 75 100
 110 13.1 20.3 61.0#
 77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VDC
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VDC





#38

Carbon Tetrachloride

Concen: 5.612 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.12 min

Lab File: VD067897.D

Acq: 07 Dec 2020 14:09

Instrument :

MSVOA_D

ClientSampleId :

4S2-D-BOTTOM

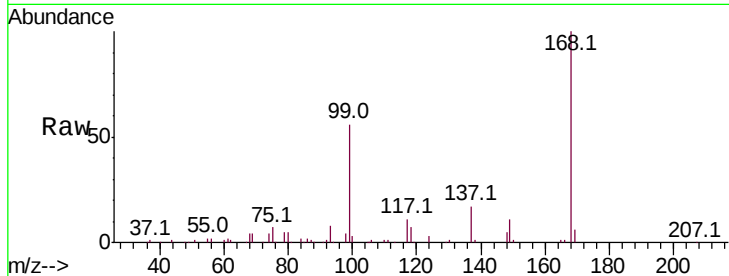
Tot Ion:117 Resp: 21109

Ion Ratio Lower Upper

117 100

119 3.4 79.7 119.5#

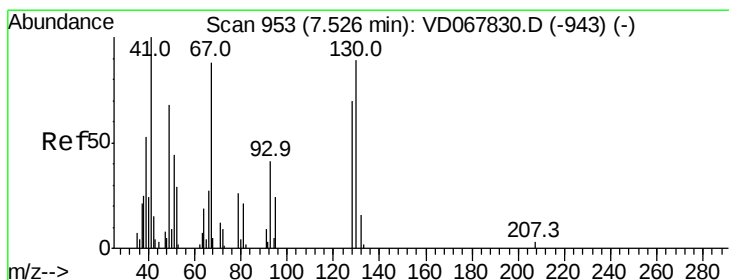
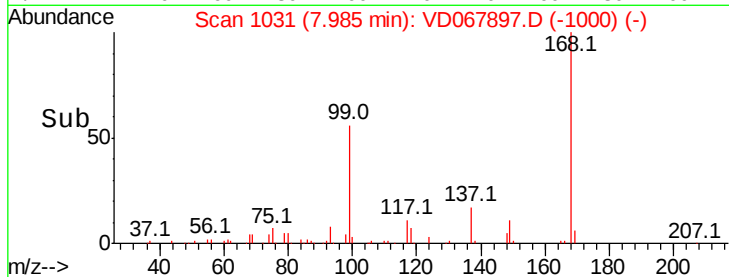
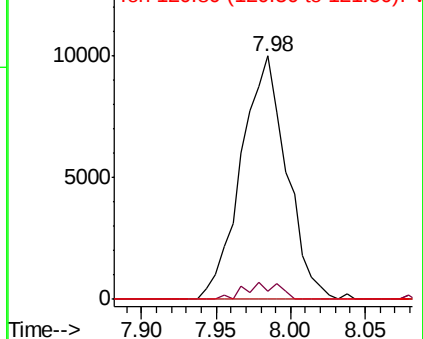
121 0.0 23.8 35.6#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 7.57 min Scan# 960

Delta R.T. 0.04 min

Lab File: VD067897.D

Acq: 07 Dec 2020 14:09

Tgt Ion: 41 Resp: 429

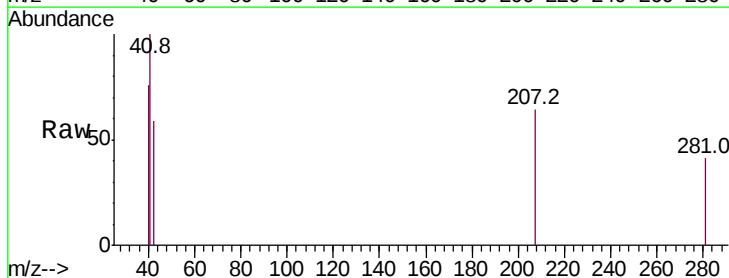
Ion Ratio Lower Upper

41 100

39 0.0 42.1 63.1#

67 0.0 82.4 123.6#

52 0.0 30.6 45.8#

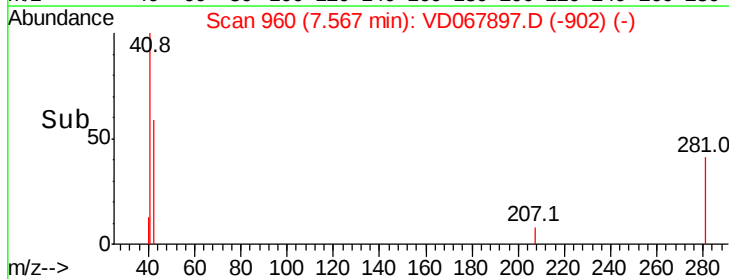
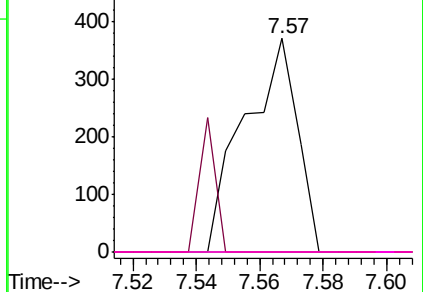


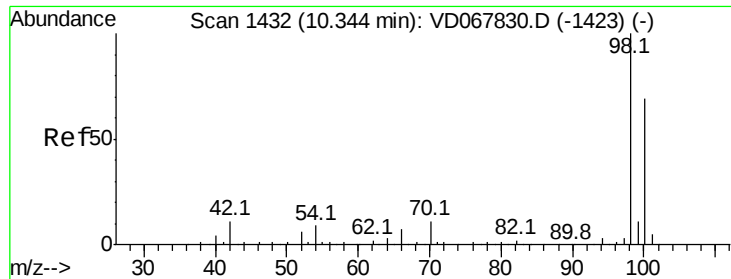
Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

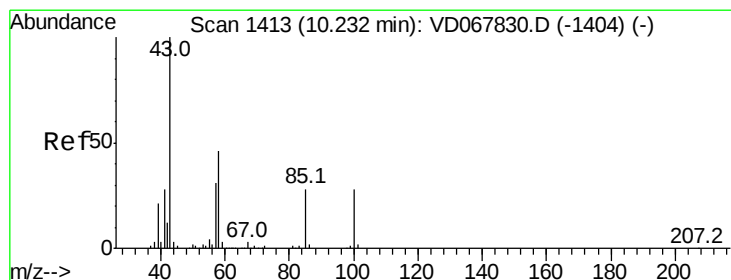
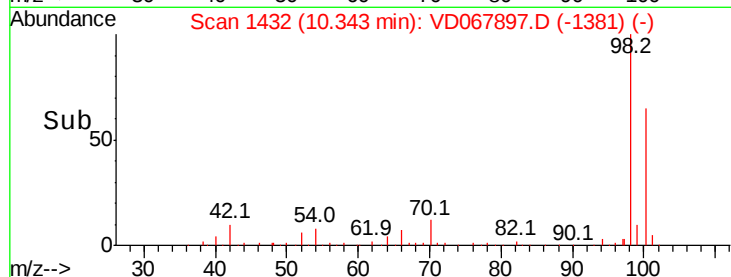
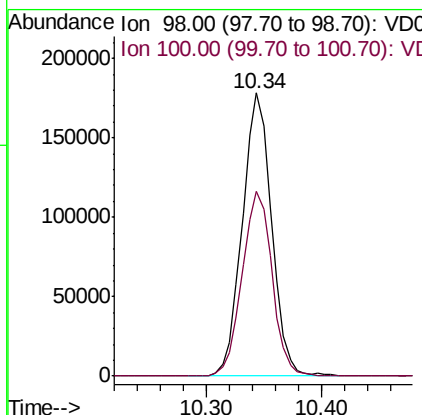
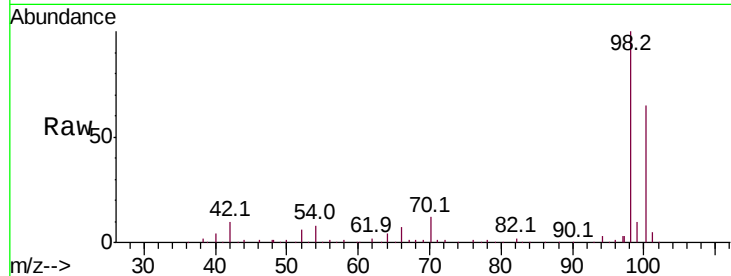




#50
Toluene-d8
Concen: 45.435 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD067897.D
Acq: 07 Dec 2020 14:09

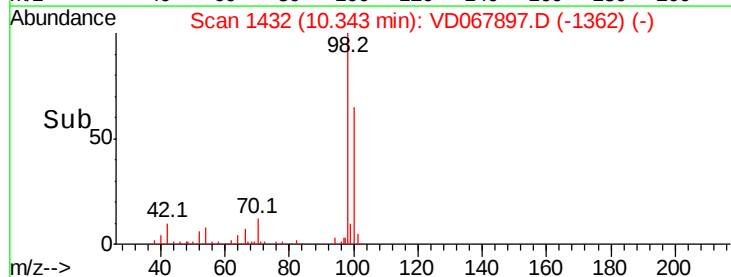
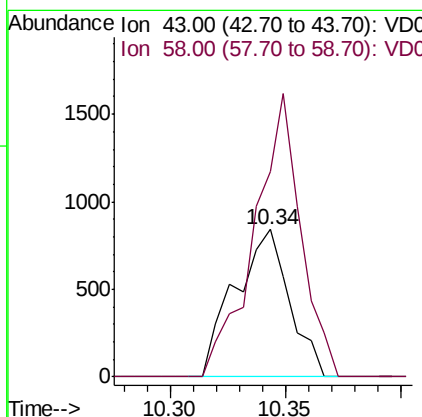
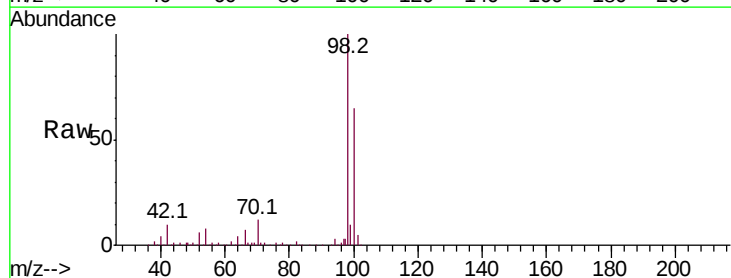
Instrument :
MSVOA_D
ClientSampleId :
4S2-D-BOTTOM

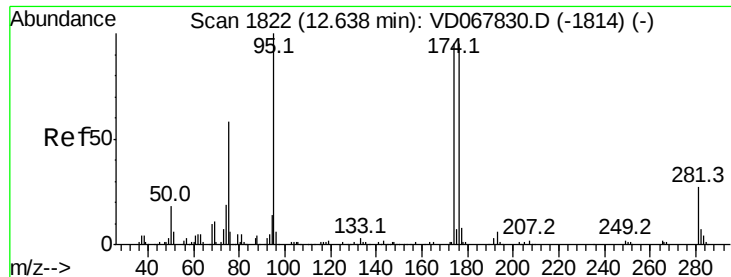
Tot Ion: 98 Resp: 314281
Ion Ratio Lower Upper
98 100
100 66.8 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 2.218 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.11 min
Lab File: VD067897.D
Acq: 07 Dec 2020 14:09

Tgt Ion: 43 Resp: 1384
Ion Ratio Lower Upper
43 100
58 162.6 35.7 53.5#





#62

4-Bromofluorobenzene

Concen: 37.477 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD067897.D

Acq: 07 Dec 2020 14:09

Instrument :

MSVOA_D

ClientSampleId :

4S2-D-BOTTOM

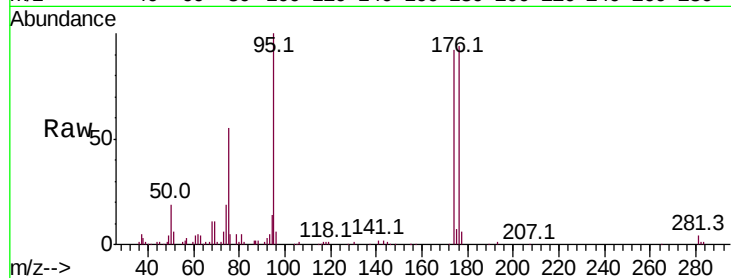
Tot Ion: 95 Resp: 89625

Ion Ratio Lower Upper

95 100

174 99.5 0.0 186.0

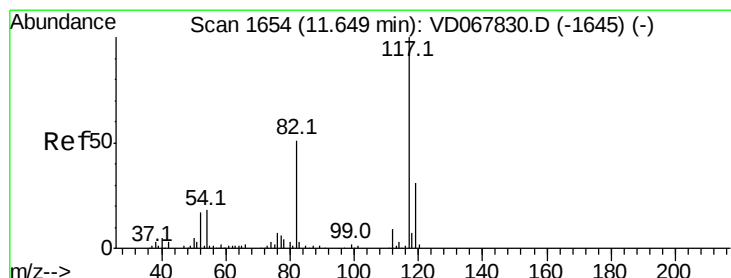
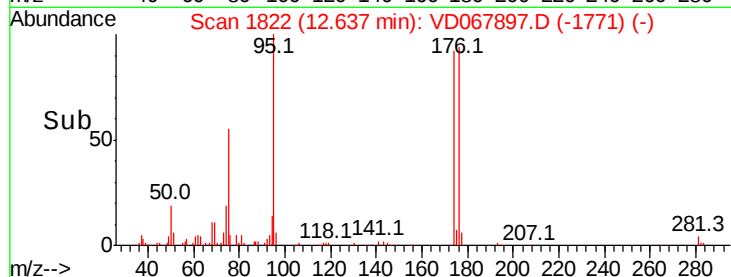
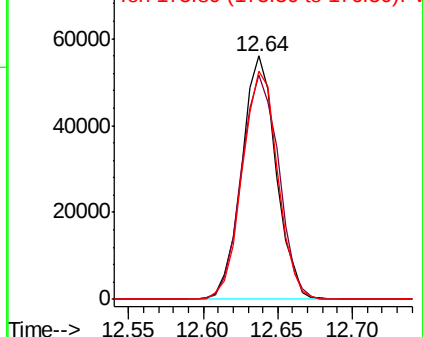
176 96.0 0.0 184.2



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: VD067897.D

Acq: 07 Dec 2020 14:09

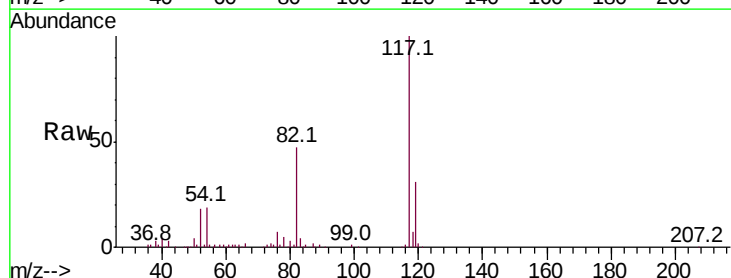
Tgt Ion: 117 Resp: 236143

Ion Ratio Lower Upper

117 100

82 46.9 40.6 60.8

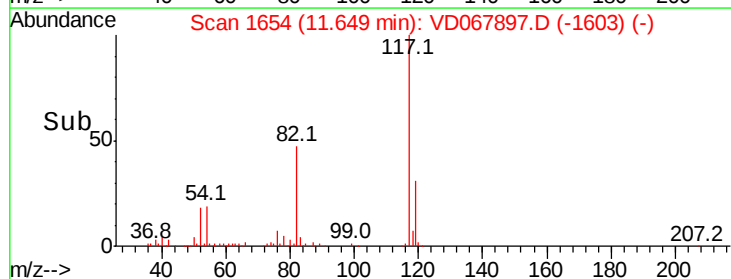
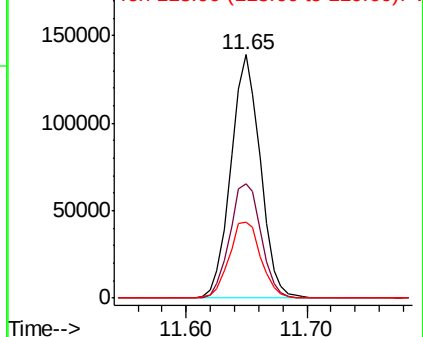
119 31.2 25.1 37.7

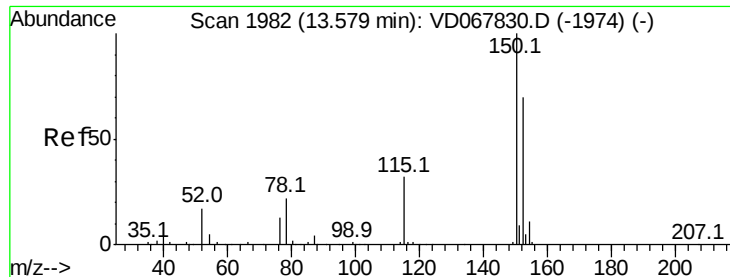


Abundance Ion 116.90 (116.60 to 117.60): V

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: VD067897.D

Acq: 07 Dec 2020 14:09

Instrument :

MSVOA_D

ClientSampleId :

4S2-D-BOTTOM

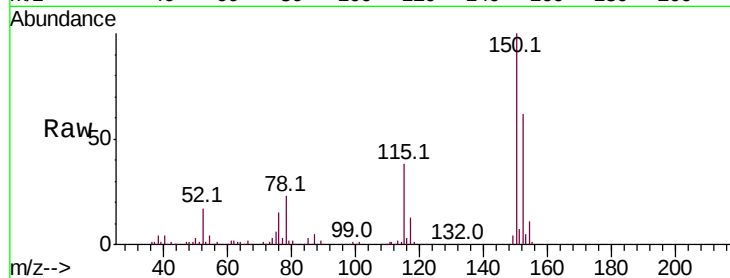
Tot Ion:152 Resp: 93034

Ion Ratio Lower Upper

152 100

115 59.2 29.1 87.4

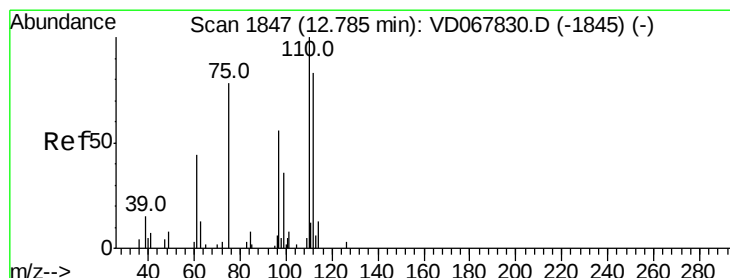
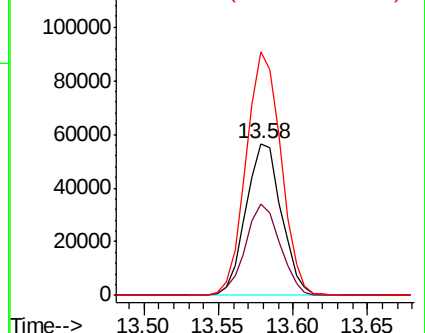
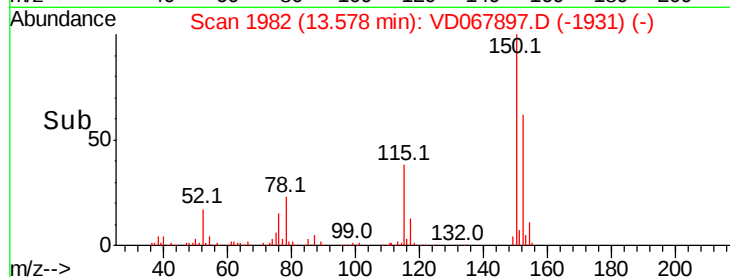
150 157.8 0.0 339.0



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: 74.896 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067897.D

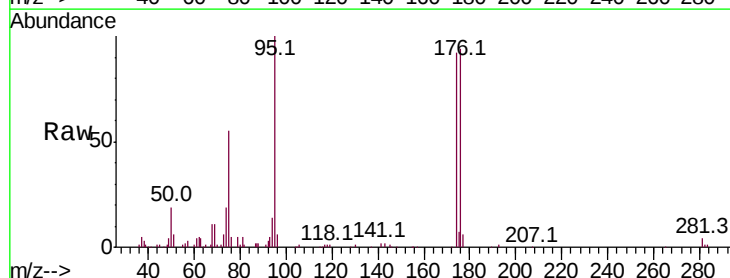
Acq: 07 Dec 2020 14:09

Tgt Ion: 75 Resp: 50742

Ion Ratio Lower Upper

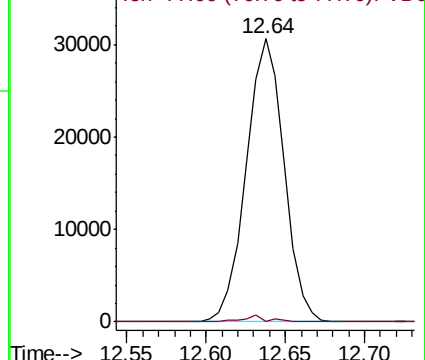
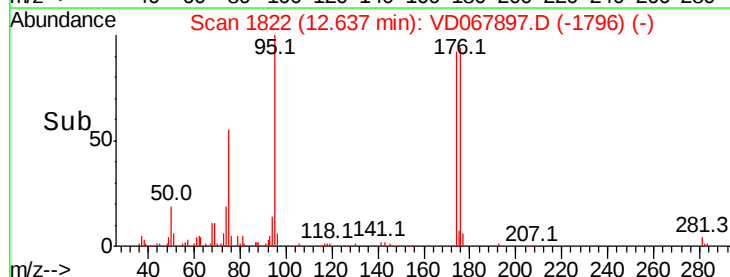
75 100

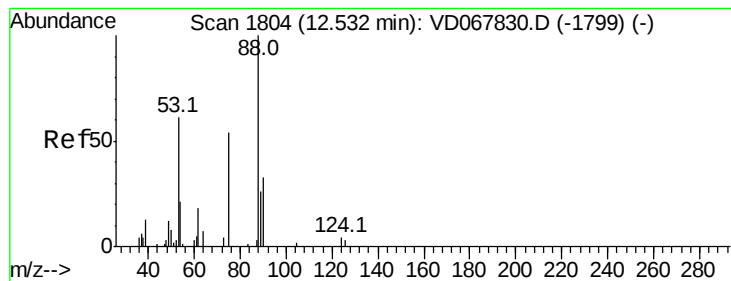
77 1.3 175.9 527.7#



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: 179.157 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067897.D

Acq: 07 Dec 2020 14:09

Instrument :

MSVOA_D

ClientSampleId :

4S2-D-BOTTOM

Tot Ion: 75 Resp: 50742

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

89 0.0 41.0 61.6#

