

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120220\
 Data File : VD067845.D
 Acq On : 02 Dec 2020 19:36
 Operator : VA/SY
 Sample : L4915-01
 Misc : 6.62G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-03-12220

Quant Time: Dec 03 00:36:46 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	158265	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	233994	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	214985	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	104504	50.00	ug/l	0.00

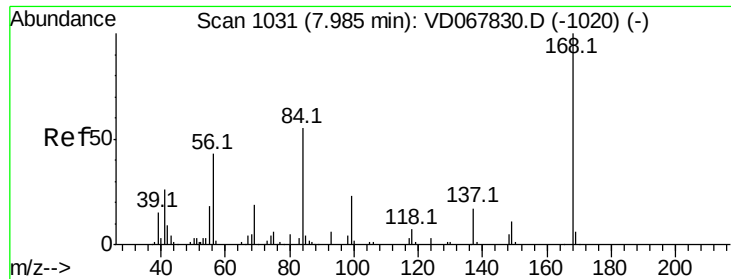
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	100104	58.92	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	117.84%
35) Dibromofluoromethane	7.92	113	76676	48.97	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	97.94%
50) Toluene-d8	10.34	98	261874	46.46	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	92.92%
62) 4-Bromofluorobenzene	12.64	95	89852	46.11	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	92.22%

Target Compounds

					Qvalue
11) Tert butyl alcohol	5.21	59	75	Below Cal	# 74
16) Acetone	4.16	43	5034	23.977	ug/l 92
20) Methylene Chloride	4.98	84	2592	Below Cal	# 74
25) 2-Butanone	7.23	43	825	3.736	ug/l # 36
29) Tetrahydrofuran	7.56	42	382	3.038	ug/l # 46
31) Cyclohexane	7.99	56	3220	1.799	ug/l # 49
37) Ethyl Acetate	7.23	43	825	1.511	ug/l # 78
41) Methacrylonitrile	7.57	41	246	Below Cal	# 14
52) Toluene	10.41	92	5128	1.323	ug/l 99
68) m/p-Xylenes	11.86	106	5378	1.805	ug/l 86
69) o-Xylene	12.18	106	2666	1.008	ug/l 77
76) 1,2,3-Trichloropropane	12.64	75	47854	62.881	ug/l # 1
81) trans-1,4-Dichloro-2-buten	12.64	75	47854	150.416	ug/l # 7
95) Naphthalene	15.41	128	4729	1.390	ug/l # 93

(#) = 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: VD067845.D

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ClientSampleId :

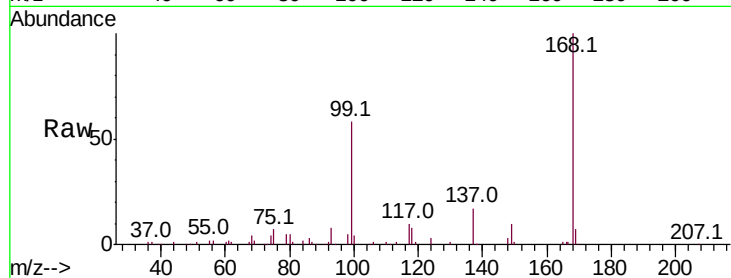
OR-03-12220

Tot Ion:168 Resp: 158265

Ion Ratio Lower Upper

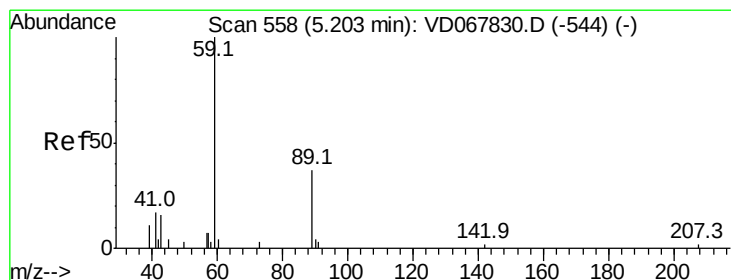
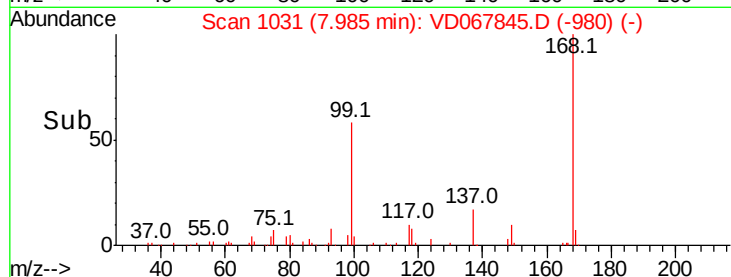
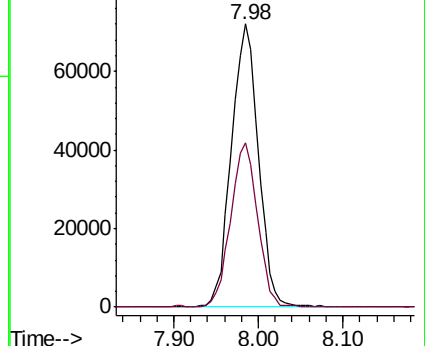
168 100

99 58.2 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: 5.21 min Scan# 559

Delta R.T. 0.01 min

Lab File: VD067845.D

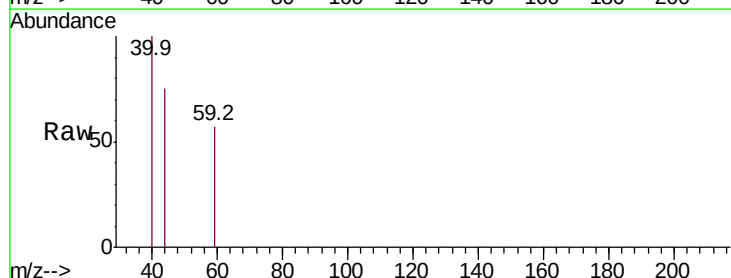
Acq: 02 Dec 2020 19:36

Tgt Ion: 59 Resp: 75

Ion Ratio Lower Upper

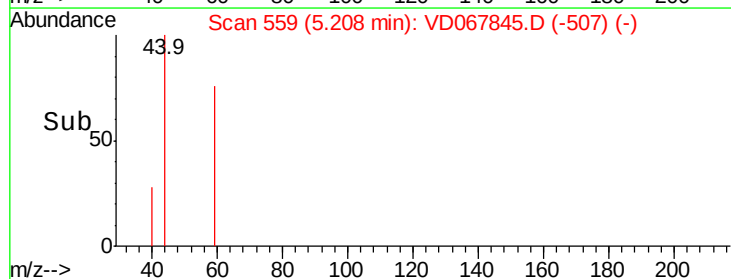
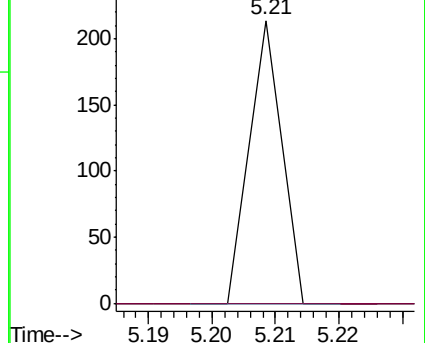
59 100

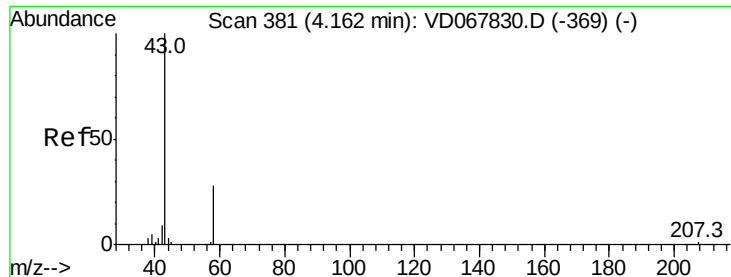
57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 23.977 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.00 min

Lab File: VD067845.D

Acq: 02 Dec 2020 19:36

Instrument :

MSVOA_D

ClientSampleId :

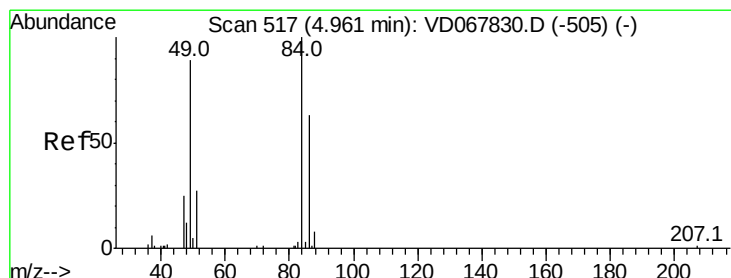
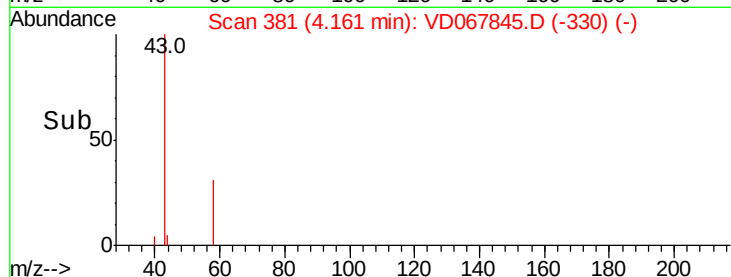
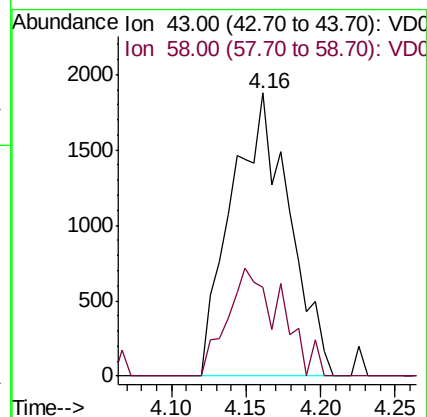
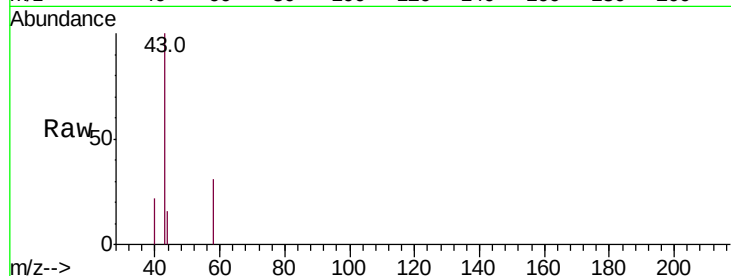
OR-03-12220

Tot Ion: 43 Resp: 5034

Ion Ratio Lower Upper

43 100

58 31.3 21.9 32.9



#20

Methylene Chloride

Concen: Below Cal

RT: 4.98 min Scan# 520

Delta R.T. 0.02 min

Lab File: VD067845.D

Acq: 02 Dec 2020 19:36

Tgt Ion: 84 Resp: 2592

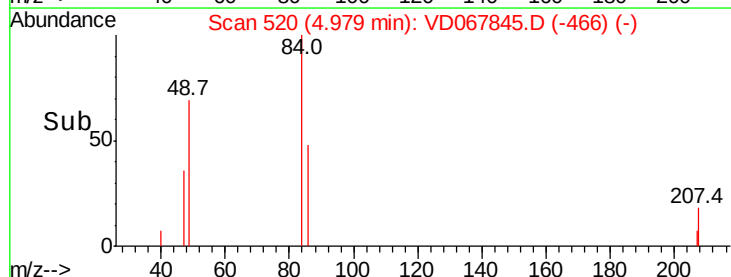
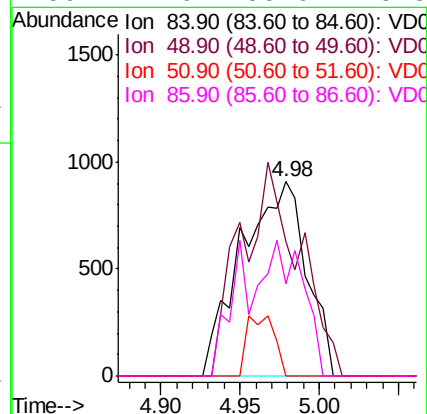
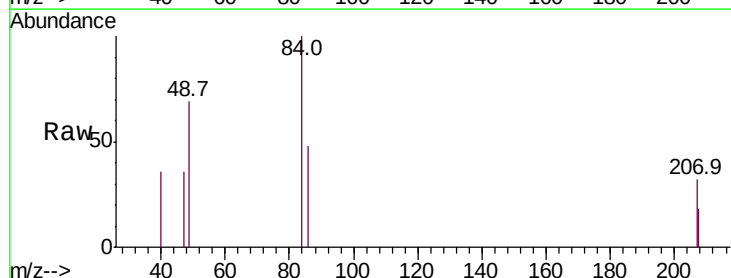
Ion Ratio Lower Upper

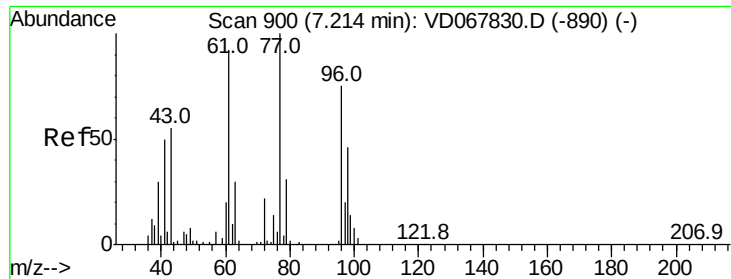
84 100

49 69.0 71.4 107.0#

51 0.0 21.8 32.8#

86 47.6 50.6 75.8#





#25

2-Butanone

Concen: 3.736 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.02 min

Lab File: VD067845.D

Acq: 02 Dec 2020 19:36

Instrument :

MSVOA_D

ClientSampleId :

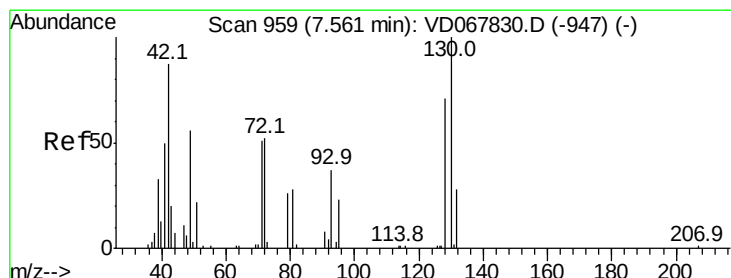
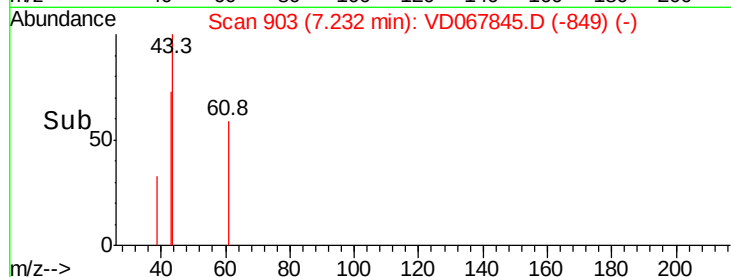
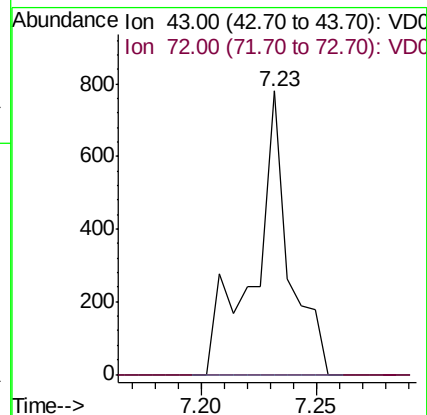
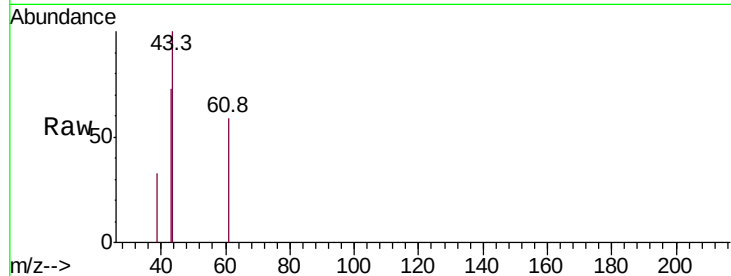
OR-03-12220

Tot Ion: 43 Resp: 825

Ion Ratio Lower Upper

43 100

72 0.0 31.3 46.9#



#29

Tetrahydrofuran

Concen: 3.038 ug/l

RT: 7.56 min Scan# 959

Delta R.T. -0.00 min

Lab File: VD067845.D

Acq: 02 Dec 2020 19:36

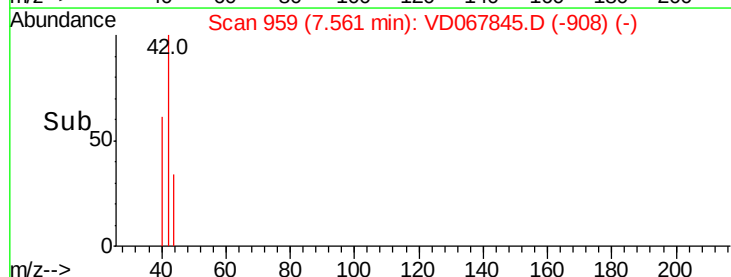
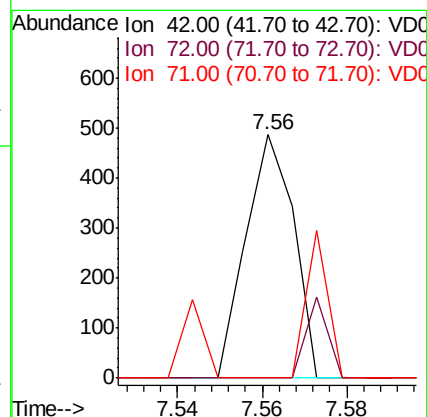
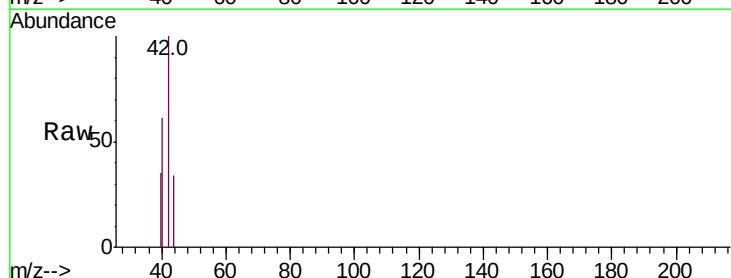
Tgt Ion: 42 Resp: 382

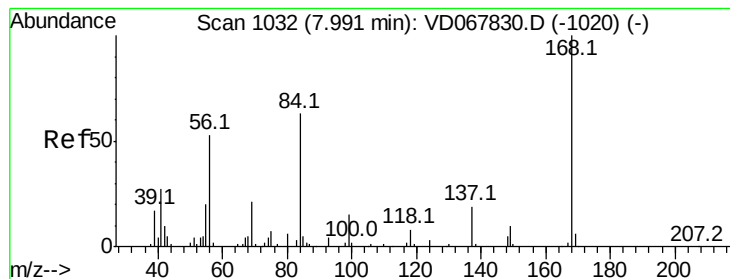
Ion Ratio Lower Upper

42 100

72 14.9 51.9 77.9#

71 27.2 48.2 72.4#





#31

Cyclohexane

Concen: 1.799 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.00 min

Lab File: VD067845.D

Acq: 02 Dec 2020 19:36

Instrument :

MSVOA_D

ClientSampleId :

OR-03-12220

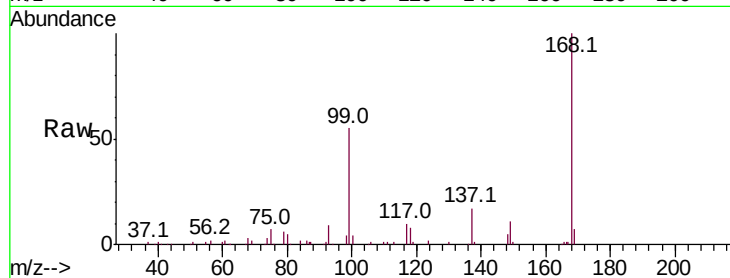
Tot Ion: 56 Resp: 3220

Ion Ratio Lower Upper

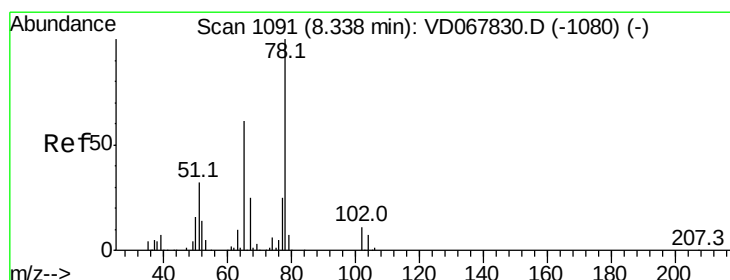
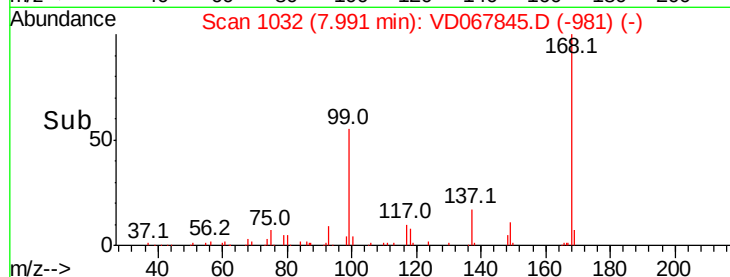
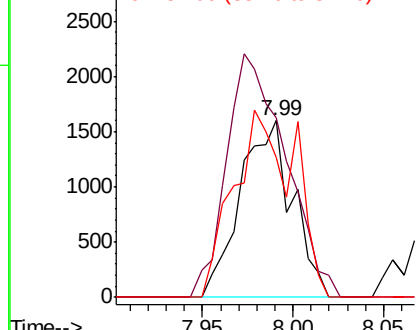
56 100

69 101.7 32.1 48.1#

84 79.4 93.2 139.8#



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



#33

1,2-Dichloroethane-d4

Concen: 58.918 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD067845.D

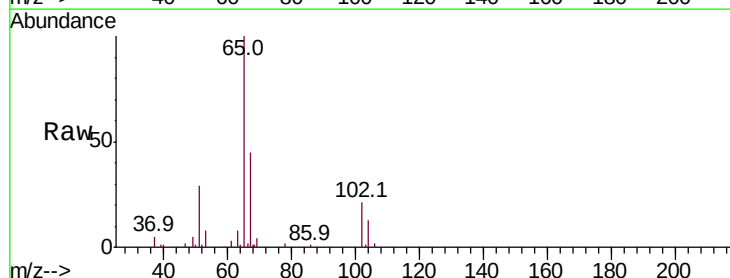
Acq: 02 Dec 2020 19:36

Tgt Ion: 65 Resp: 100104

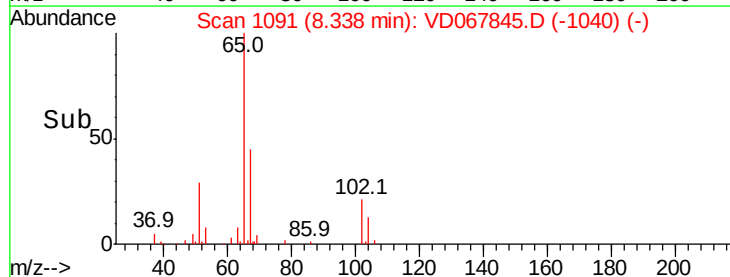
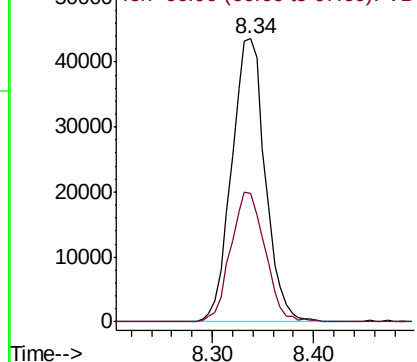
Ion Ratio Lower Upper

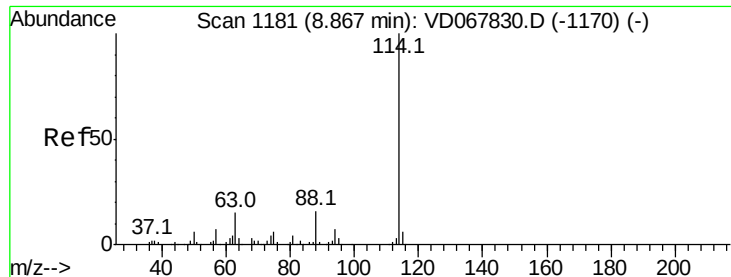
65 100

67 47.1 0.0 92.0



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD067845.D

Acq: 02 Dec 2020 19:36

Instrument :

MSVOA_D

ClientSampleId :

OR-03-12220

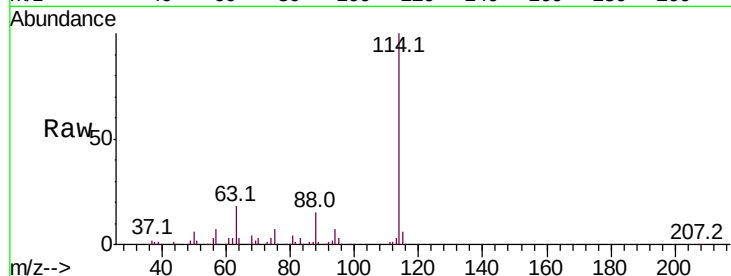
Tot Ion:114 Resp: 233994

Ion Ratio Lower Upper

114 100

63 17.8 0.0 30.8

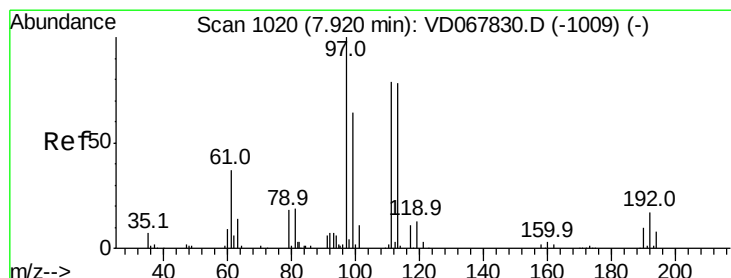
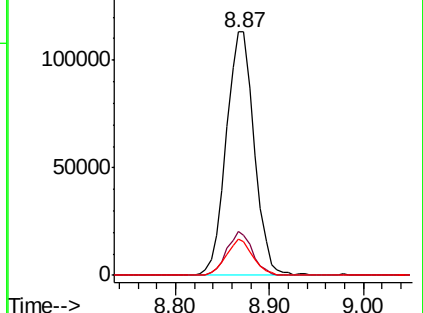
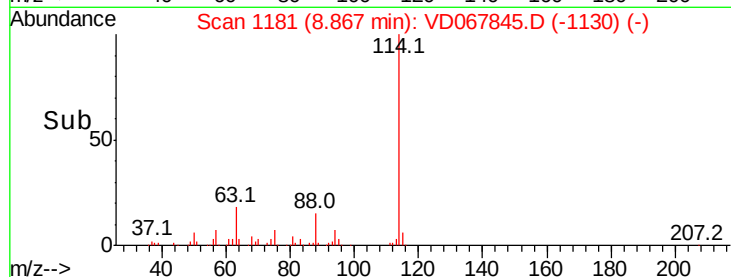
88 15.1 0.0 31.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 48.971 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD067845.D

Acq: 02 Dec 2020 19:36

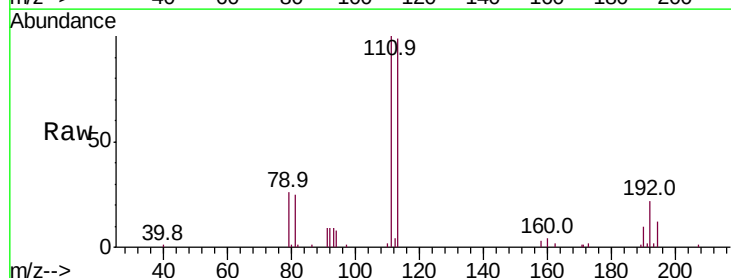
Tgt Ion:113 Resp: 76676

Ion Ratio Lower Upper

113 100

111 101.8 81.2 121.8

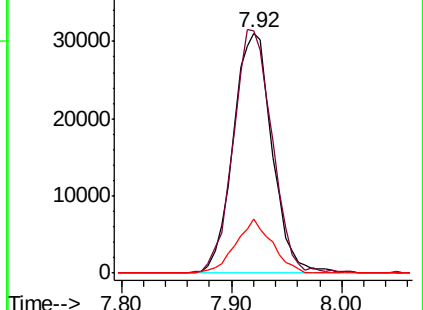
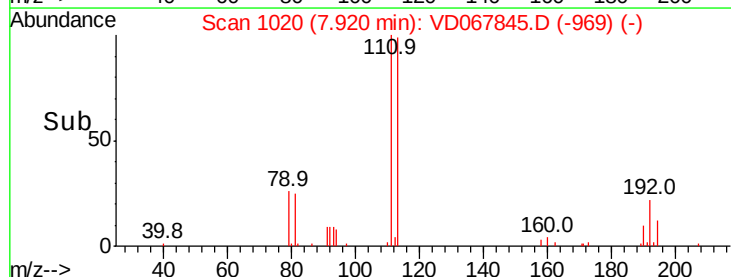
192 21.0 16.8 25.2

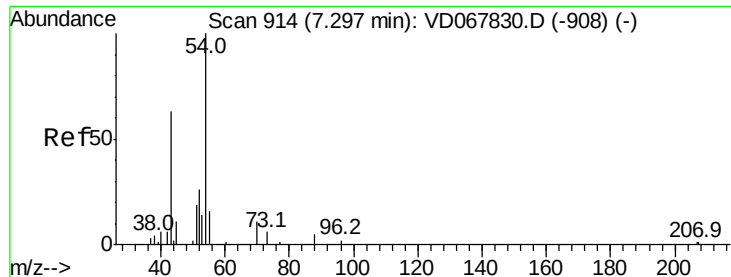


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

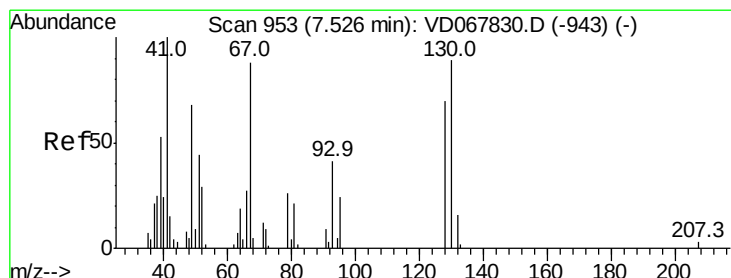
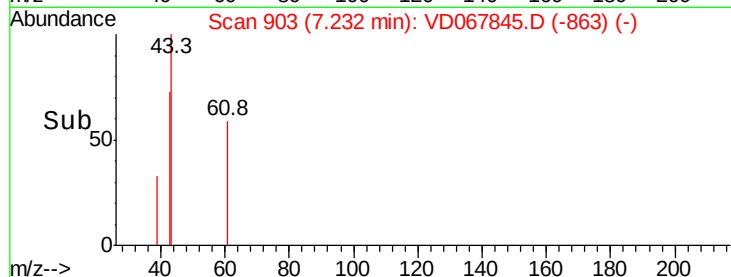
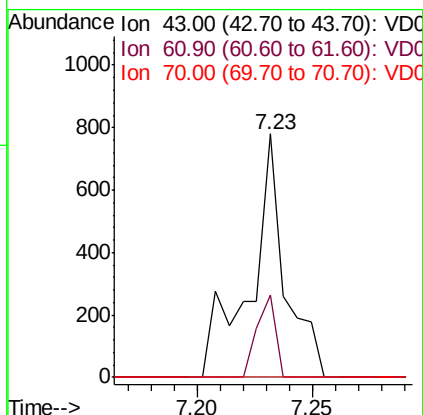
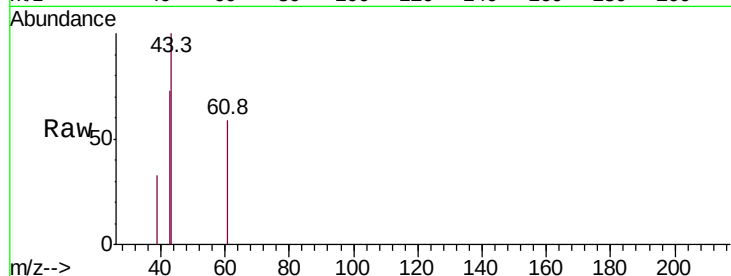




#37
Ethyl Acetate
Concen: 1.511 ug/l
RT: 7.23 min Scan# 903
Delta R.T. -0.06 min
Lab File: VD067845.D
Acq: 02 Dec 2020 19:36

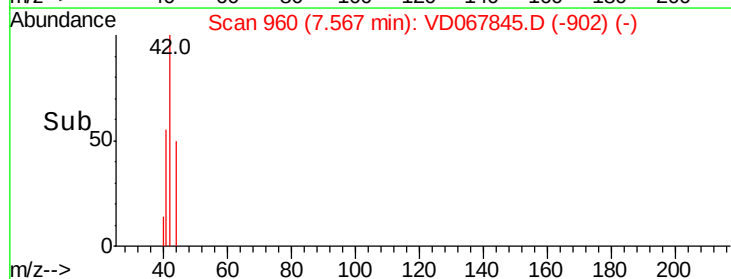
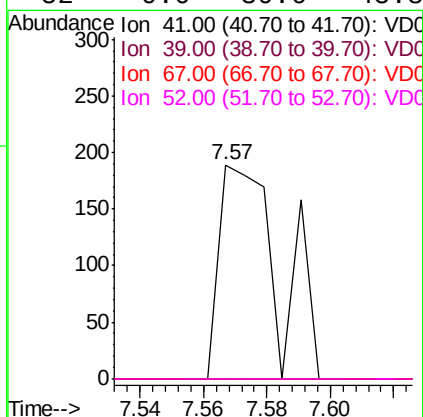
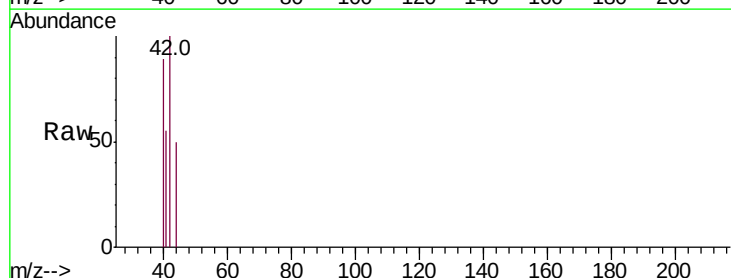
Instrument :
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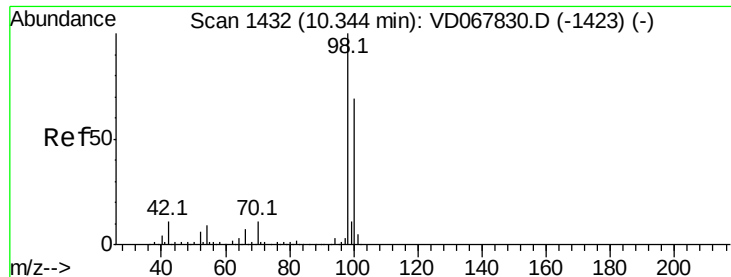
Tot Ion: 43 Resp: 825
Ion Ratio Lower Upper
43 100
61 18.1 11.4 17.2#
70 0.0 11.5 17.3#



#41
Methacrylonitrile
Concen: Below Cal
RT: 7.57 min Scan# 960
Delta R.T. 0.04 min
Lab File: VD067845.D
Acq: 02 Dec 2020 19:36

Tgt Ion: 41 Resp: 246
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#

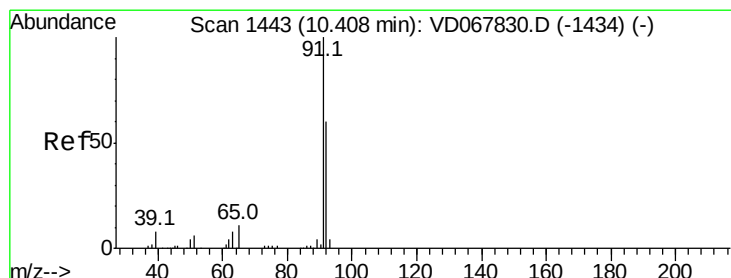
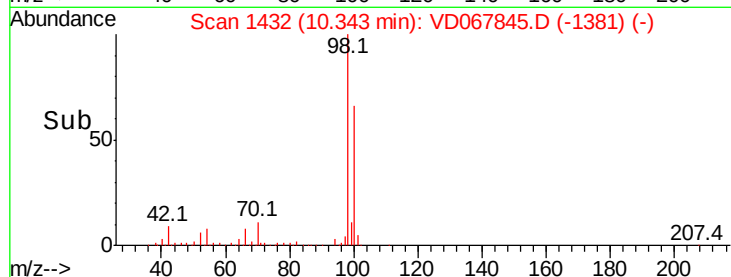
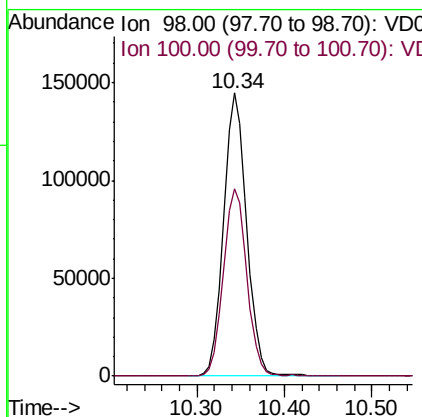
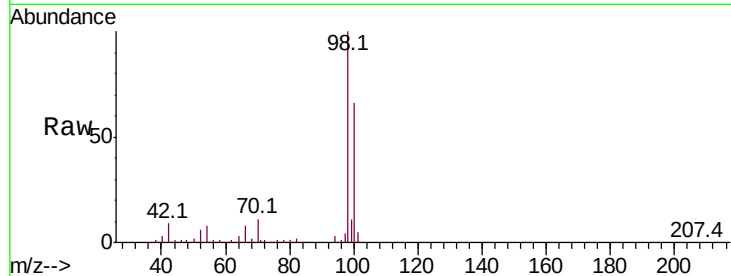




#50
Toluene-d8
Concen: 46.461 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD067845.D
Acq: 02 Dec 2020 19:36

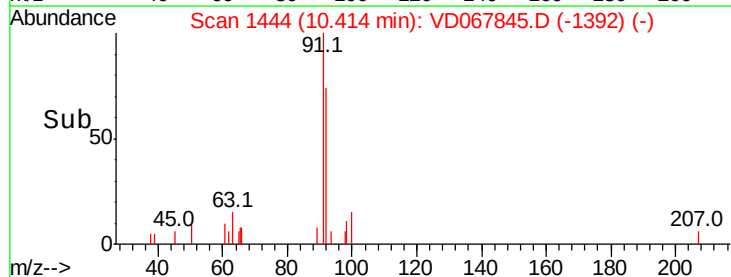
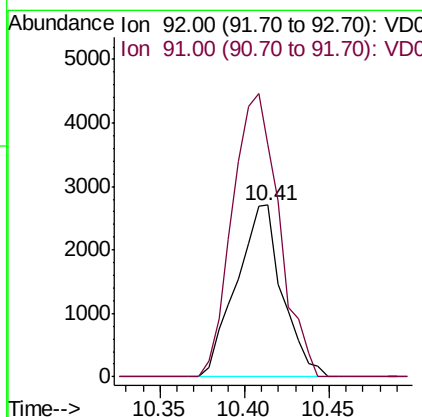
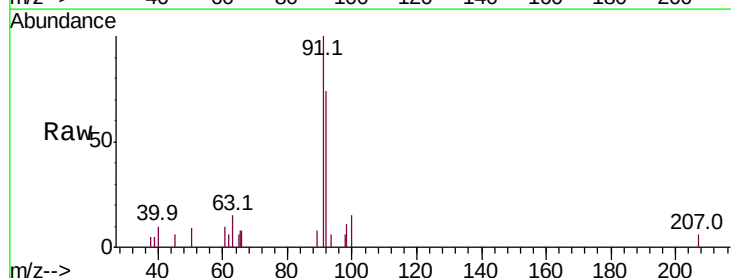
Instrument :
MSVOA_D
ClientSampleId :
OR-03-12220

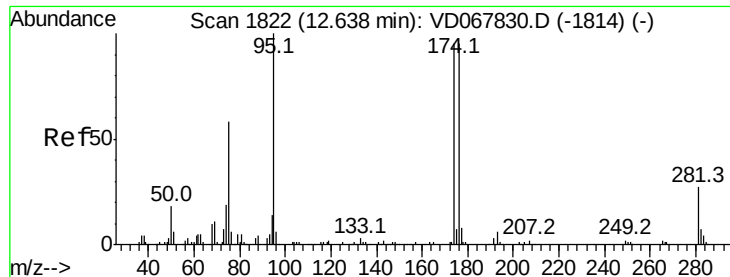
Tot Ion: 98 Resp: 261874
Ion Ratio Lower Upper
98 100
100 67.2 52.9 79.3



#52
Toluene
Concen: 1.323 ug/l
RT: 10.41 min Scan# 1444
Delta R.T. 0.01 min
Lab File: VD067845.D
Acq: 02 Dec 2020 19:36

Tgt Ion: 92 Resp: 5128
Ion Ratio Lower Upper
92 100
91 167.0 134.2 201.2





#62

4-Bromofluorobenzene

Concen: 46.109 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.00 min

Lab File: VD067845.D

Acq: 02 Dec 2020 19:36

Instrument :

MSVOA_D

ClientSampleId :

OR-03-12220

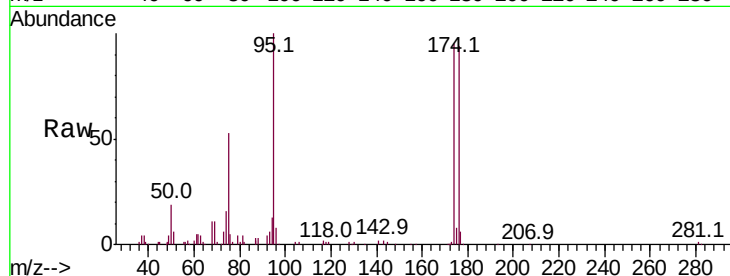
Tot Ion: 95 Resp: 89852

Ion Ratio Lower Upper

95 100

174 93.0 0.0 186.0

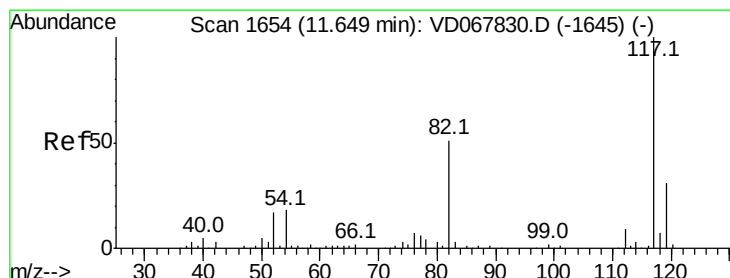
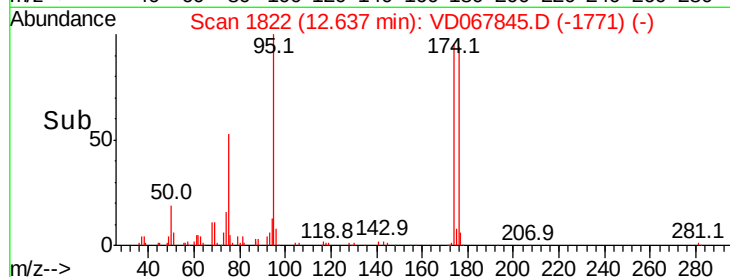
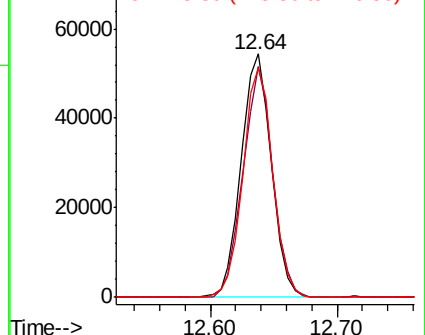
176 93.3 0.0 184.2



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: VD067845.D

Acq: 02 Dec 2020 19:36

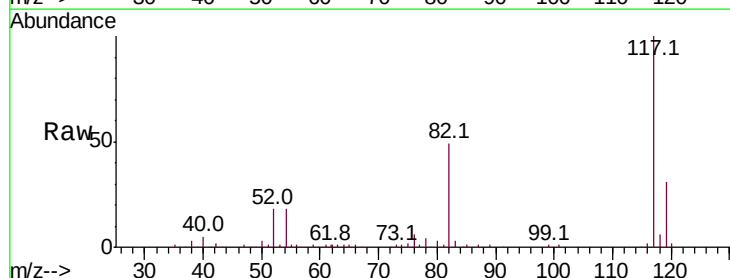
Tgt Ion: 117 Resp: 214985

Ion Ratio Lower Upper

117 100

82 49.5 40.6 60.8

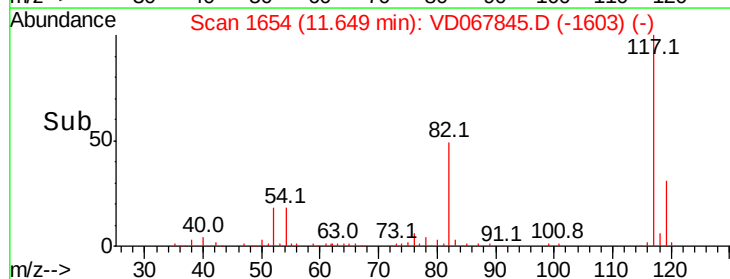
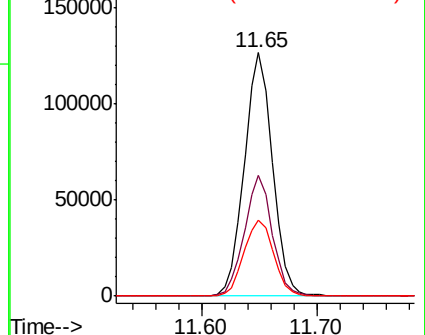
119 31.4 25.1 37.7

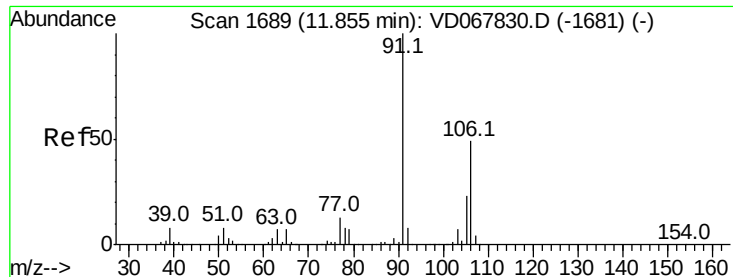


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V

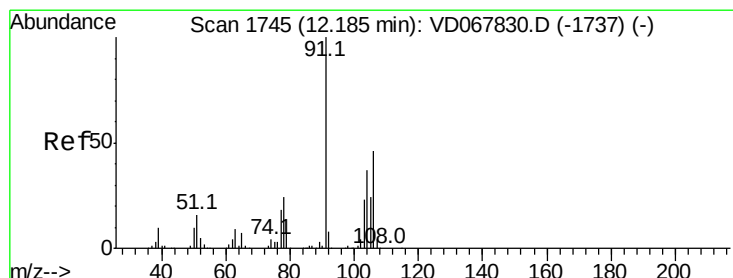
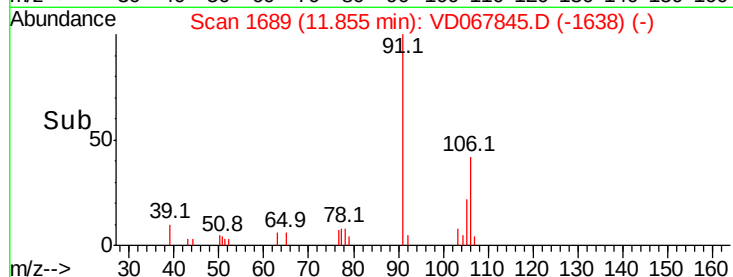
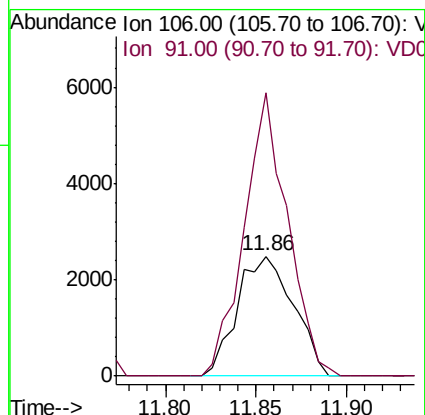
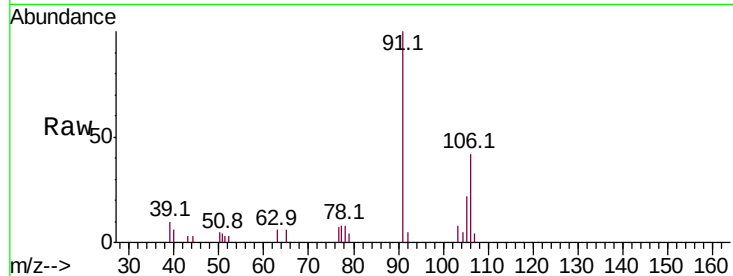




#68
m/p-Xylenes
Concen: 1.805 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD067845.D
Acq: 02 Dec 2020 19:36

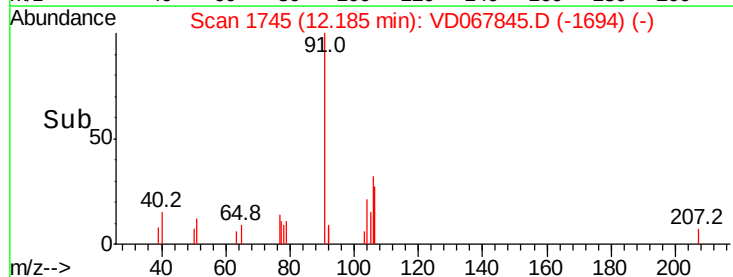
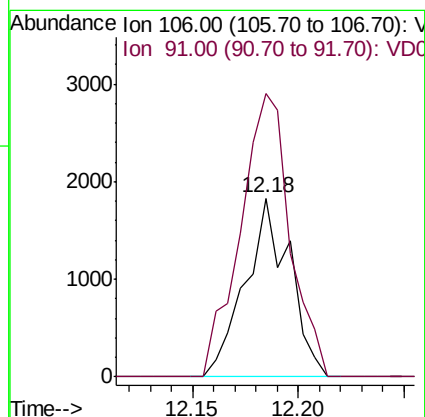
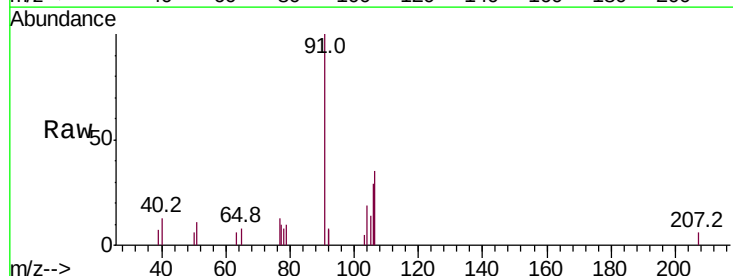
Instrument :
MSVOA_D
ClientSampleId :
OR-03-12220

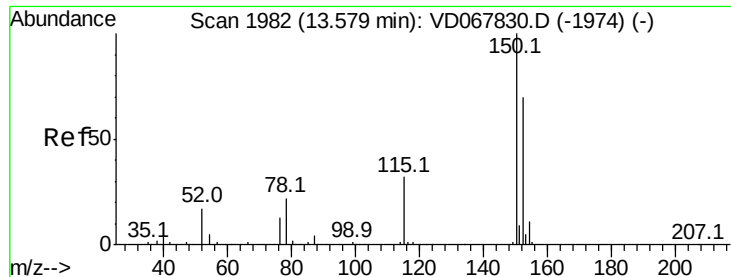
Tot Ion:106 Resp: 5378
Ion Ratio Lower Upper
106 100
91 182.2 162.8 244.2



#69
o-Xylene
Concen: 1.008 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. -0.00 min
Lab File: VD067845.D
Acq: 02 Dec 2020 19:36

Tgt Ion:106 Resp: 2666
Ion Ratio Lower Upper
106 100
91 178.1 107.5 322.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD067845.D

Acq: 02 Dec 2020 19:36

Instrument :

MSVOA_D

ClientSampleId :

OR-03-12220

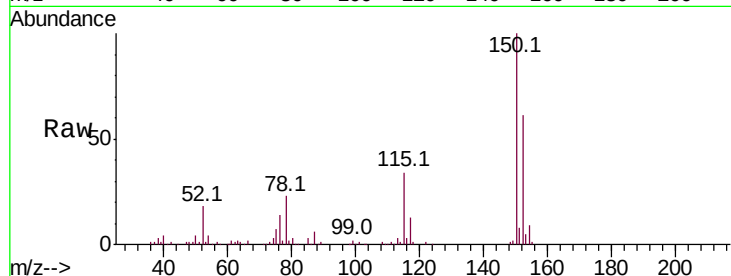
Tot Ion:152 Resp: 104504

Ion Ratio Lower Upper

152 100

115 58.9 29.1 87.4

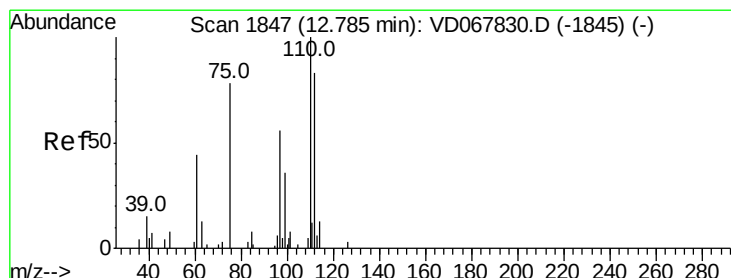
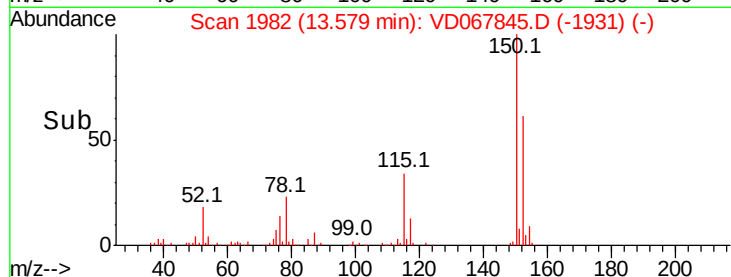
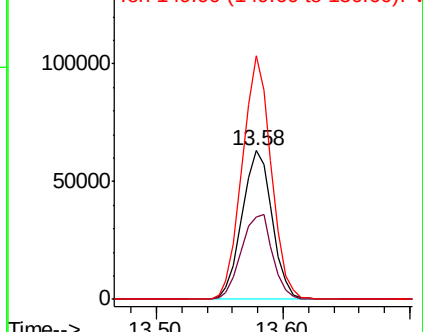
150 156.9 0.0 339.0



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: 62.881 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067845.D

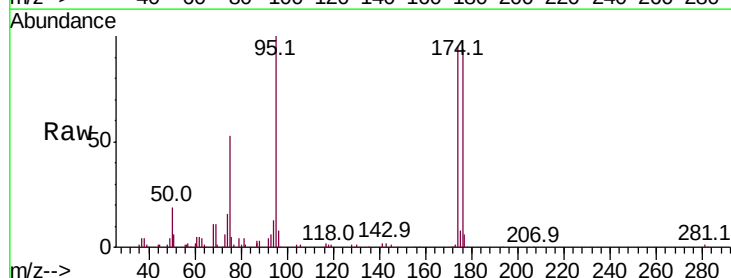
Acq: 02 Dec 2020 19:36

Tgt Ion: 75 Resp: 47854

Ion Ratio Lower Upper

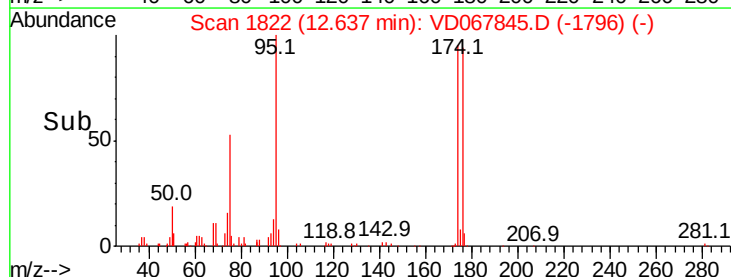
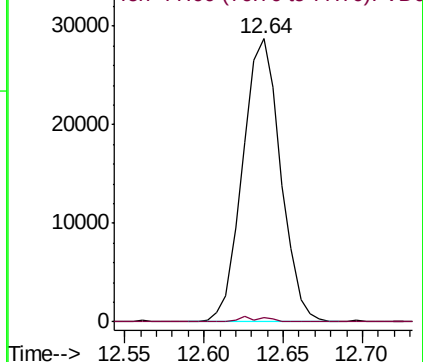
75 100

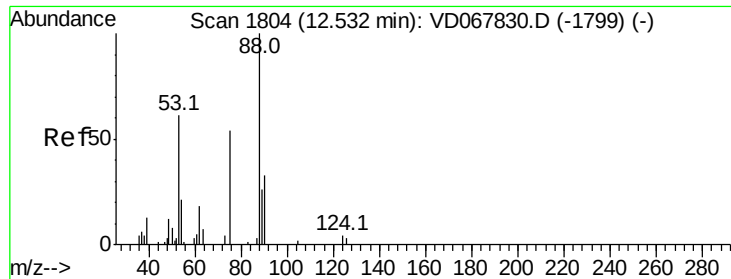
77 1.3 175.9 527.7#



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: 150.416 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067845.D

Acq: 02 Dec 2020 19:36

Instrument :

MSVOA_D

ClientSampleId :

OR-03-12220

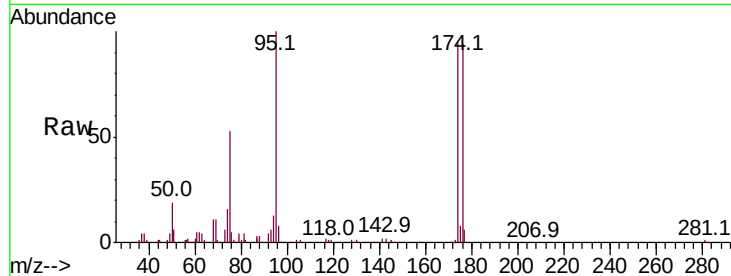
Tot Ion: 75 Resp: 47854

Ion Ratio Lower Upper

75 100

53 0.0 84.6 127.0#

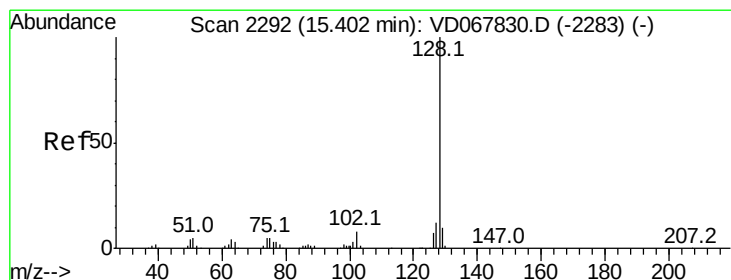
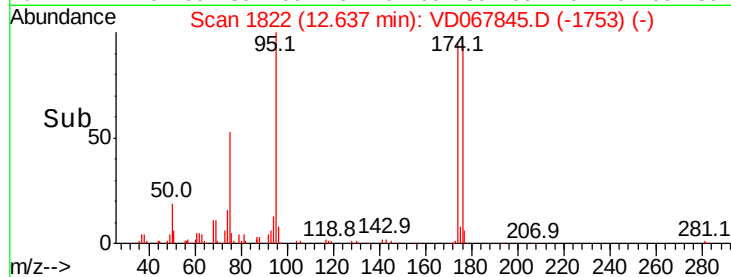
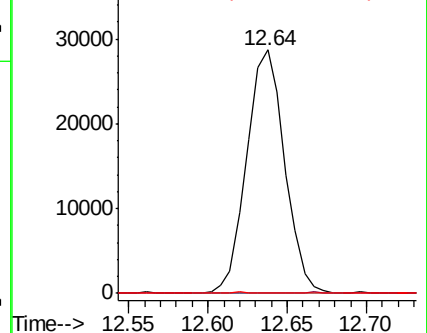
89 0.2 41.0 61.6#



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: 1.390 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. 0.01 min

Lab File: VD067845.D

Acq: 02 Dec 2020 19:36

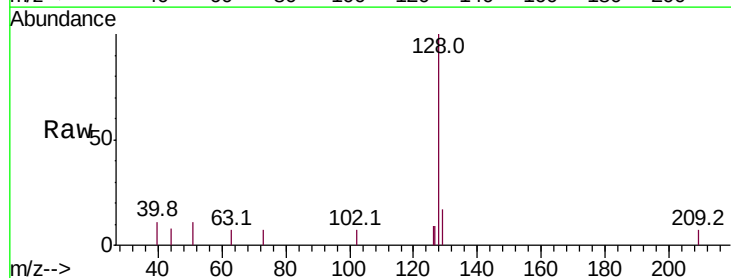
Tgt Ion: 128 Resp: 4729

Ion Ratio Lower Upper

128 100

127 8.3 10.6 15.8#

129 10.6 9.0 13.6



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

