

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112320\
 Data File : VD067753.D
 Acq On : 23 Nov 2020 18:38
 Operator : VA/SY
 Sample : L4844-01
 Misc : 5.58G/5.00ml/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-112020

Quant Time: Nov 24 00:57:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112320S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 24 00:51:35 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	185145	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	284893	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	342361	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	188450	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	102632	57.01	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	114.02%
35) Dibromofluoromethane	7.92	113	93297	51.46	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.92%
50) Toluene-d8	10.34	98	350086	52.81	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	105.62%
62) 4-Bromofluorobenzene	12.64	95	159368	70.34	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	140.68%

Target Compounds

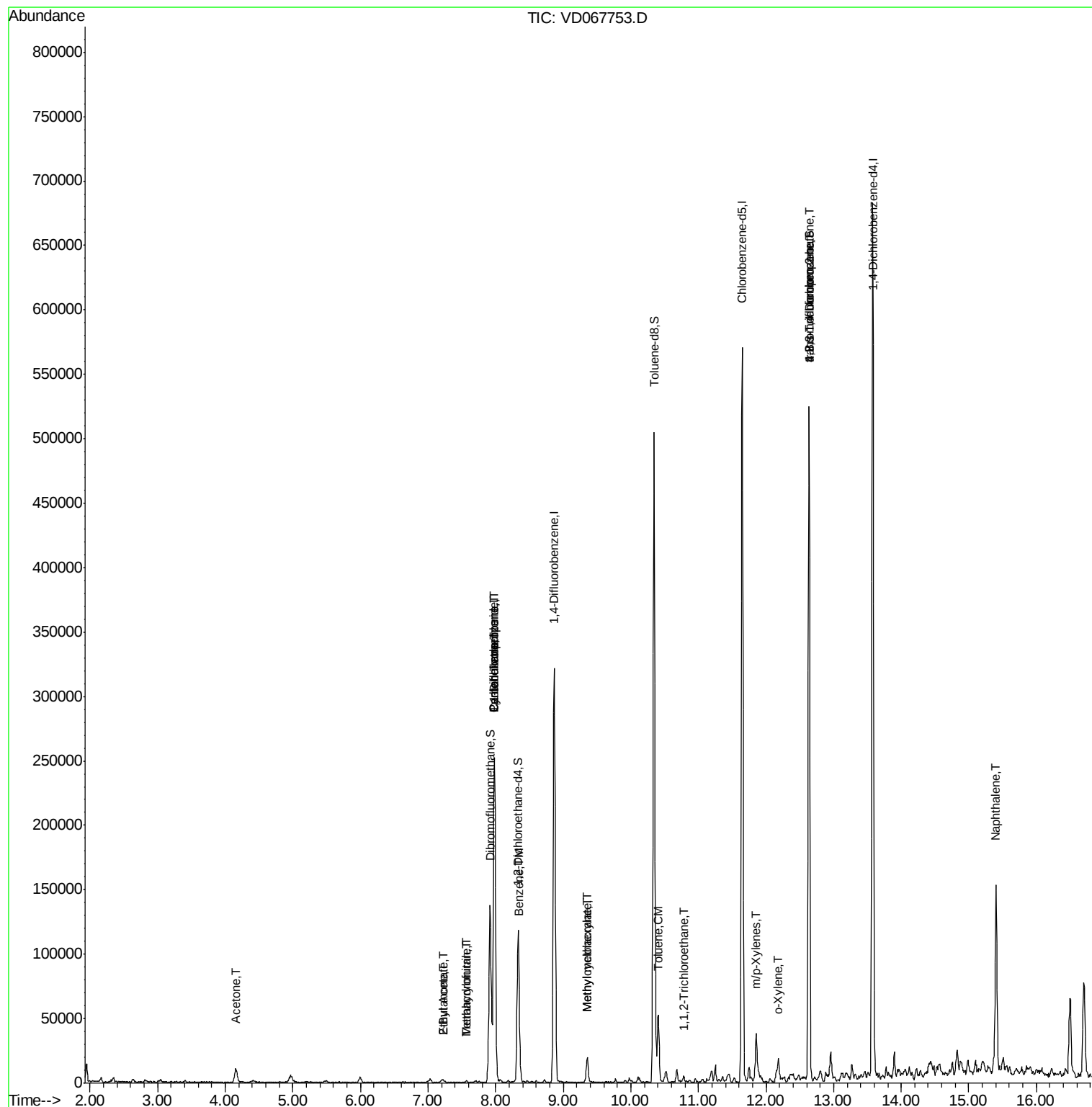
					Qvalue
11) Tert butyl alcohol	5.20	59	149	Below Cal	# 87
16) Acetone	4.16	43	17984	77.330	ug/l # 73
20) Methylene Chloride	4.96	84	2931	Below Cal	# 71
25) 2-Butanone	7.22	43	3619	13.868	ug/l 98
29) Tetrahydrofuran	7.57	42	411	2.770	ug/l # 92
31) Cyclohexane	7.98	56	6459	2.965	ug/l # 60
36) 1,1-Dichloropropene	7.98	75	11259	4.605	ug/l # 49
37) Ethyl Acetate	7.22	43	3619	5.505	ug/l # 63
38) Carbon Tetrachloride	7.98	117	19635	5.541	ug/l # 15
39) Methylcyclohexane	9.36	83	8086	2.795	ug/l 94
40) Benzene	8.35	78	6988	1.041	ug/l 98
41) Methacrylonitrile	7.56	41	337	1.004	ug/l # 27
48) Methyl methacrylate	9.36	41	3761	5.731	ug/l # 56
52) Toluene	10.40	92	22193	4.872	ug/l 95
55) 1,1,2-Trichloroethane	10.78	97	2872	2.282	ug/l # 25
68) m/p-Xylenes	11.85	106	10414	2.304	ug/l 93
69) o-Xylene	12.18	106	4731	1.149	ug/l 94
76) 1,2,3-Trichloropropane	12.64	75	85051	64.756	ug/l # 100
81) trans-1,4-Dichloro-2-buten	12.64	75	85051	151.459	ug/l # 11
95) Naphthalene	15.40	128	138524	23.361	ug/l 99

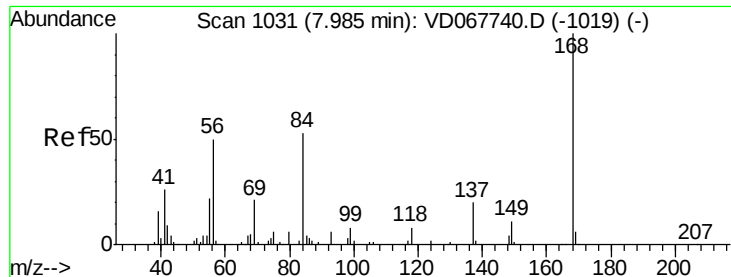
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067753.D

Acq: 23 Nov 2020 18:38

Instrument :

MSVOA_D

ClientSampleId :

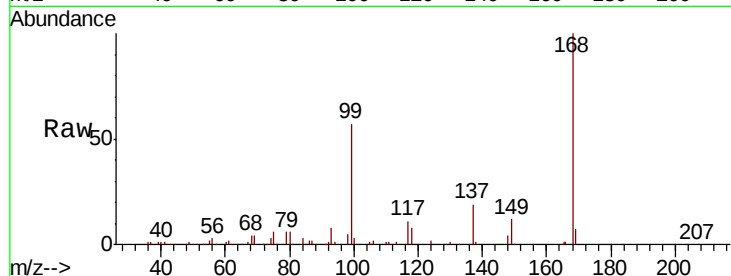
OR-02-112020

Tot Ion:168 Resp: 185145

Ion Ratio Lower Upper

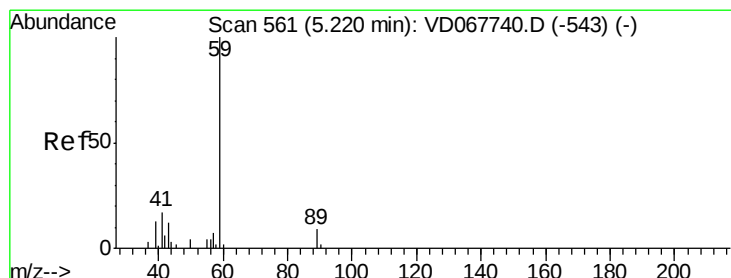
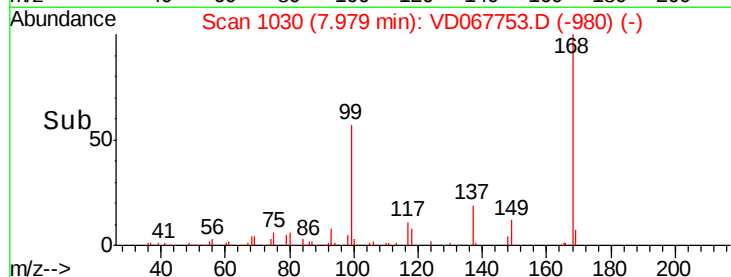
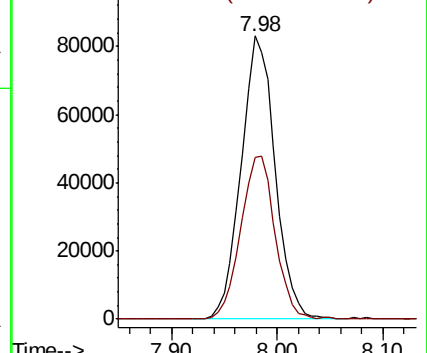
168 100

99 57.1 43.8 65.8



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: 5.20 min Scan# 558

Delta R.T. -0.02 min

Lab File: VD067753.D

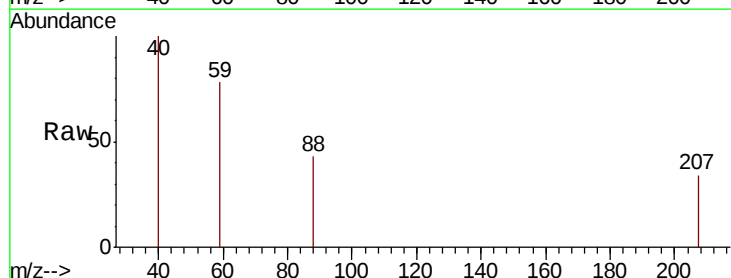
Acq: 23 Nov 2020 18:38

Tgt Ion: 59 Resp: 149

Ion Ratio Lower Upper

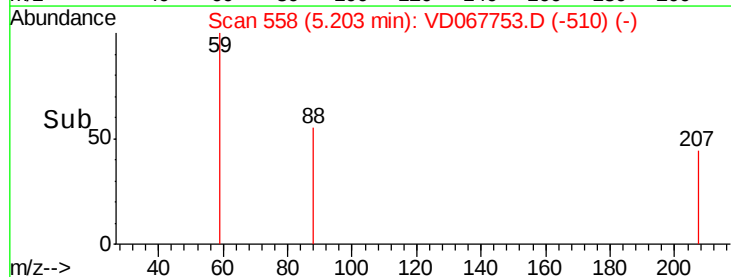
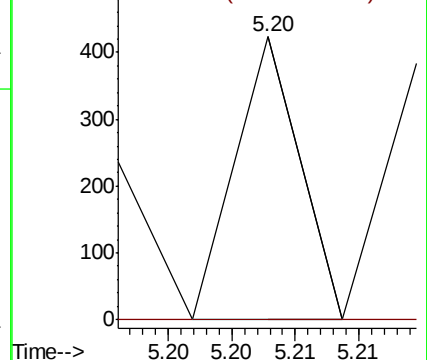
59 100

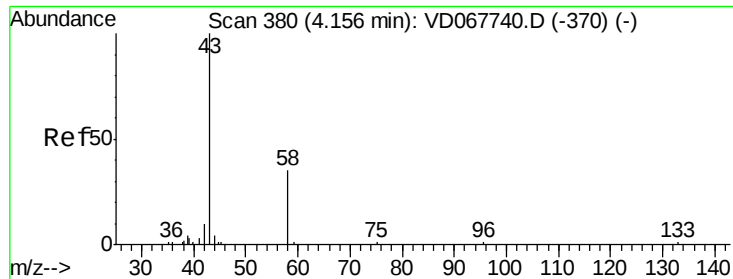
57 0.0 3.4 5.0#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 77.330 ug/l

RT: 4.16 min Scan# 380

Delta R.T. 0.00 min

Lab File: VD067753.D

Acq: 23 Nov 2020 18:38

Instrument :

MSVOA_D

ClientSampleId :

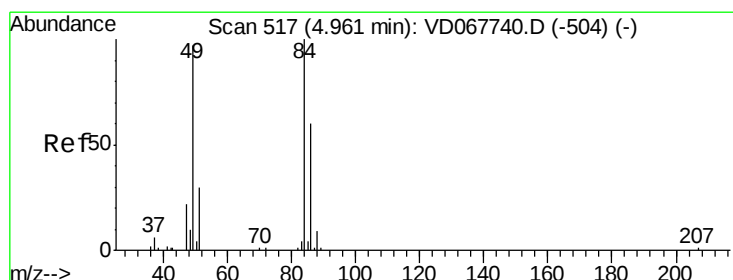
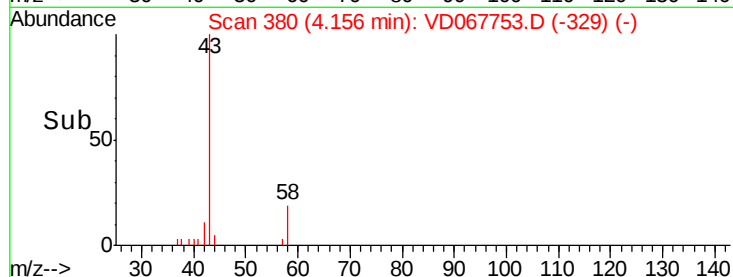
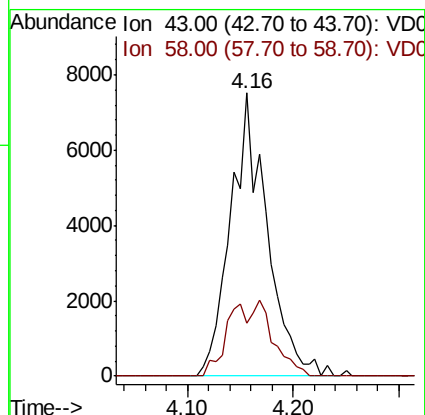
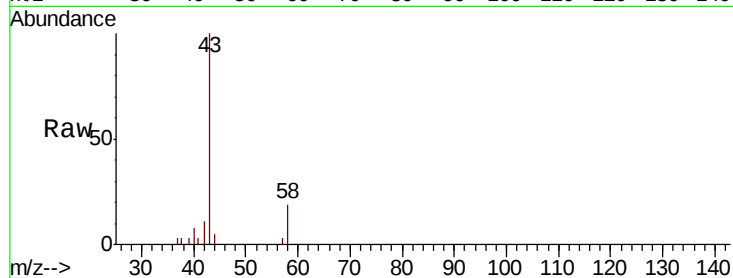
OR-02-112020

Tot Ion: 43 Resp: 17984

Ion Ratio Lower Upper

43 100

58 18.8 27.6 41.4#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD067753.D

Acq: 23 Nov 2020 18:38

Tgt Ion: 84 Resp: 2931

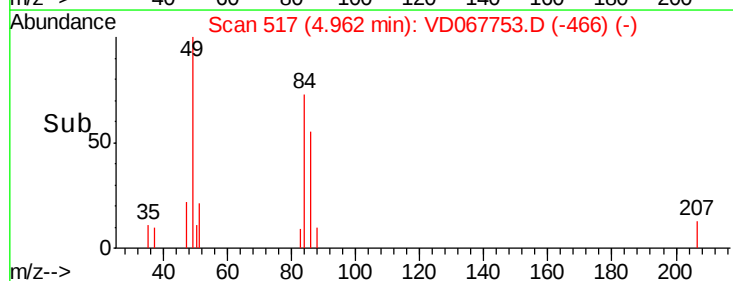
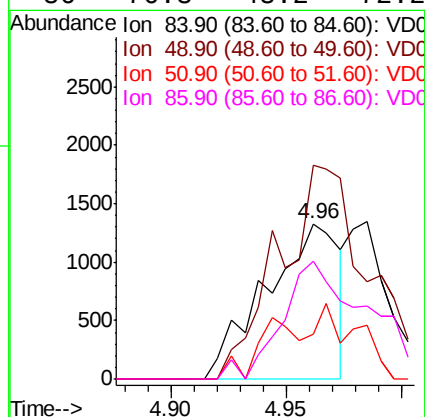
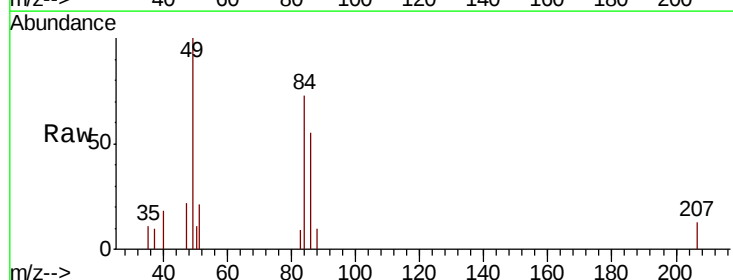
Ion Ratio Lower Upper

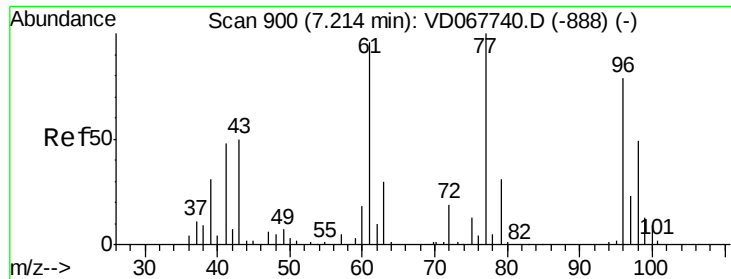
84 100

49 137.9 77.4 116.2#

51 29.3 24.1 36.1

86 76.3 48.2 72.2#





#25

2-Butanone

Concen: 13.868 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD067753.D

Acq: 23 Nov 2020 18:38

Instrument :

MSVOA_D

ClientSampleId :

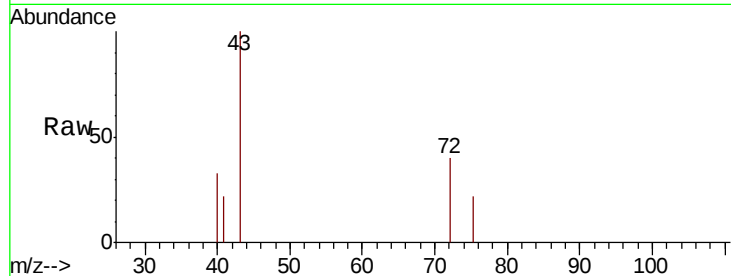
OR-02-112020

Tot Ion: 43 Resp: 3619

Ion Ratio Lower Upper

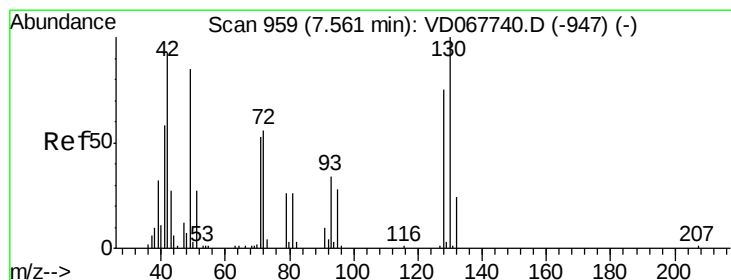
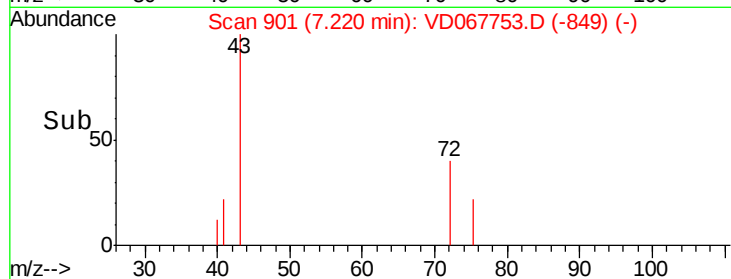
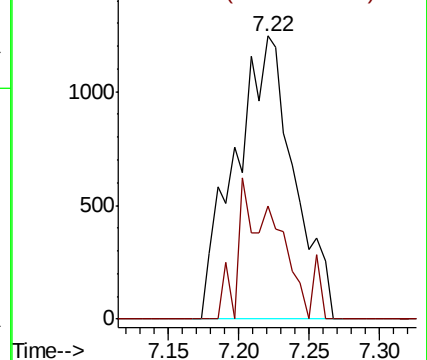
43 100

72 39.8 30.8 46.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#29

Tetrahydrofuran

Concen: 2.770 ug/l

RT: 7.57 min Scan# 960

Delta R.T. 0.01 min

Lab File: VD067753.D

Acq: 23 Nov 2020 18:38

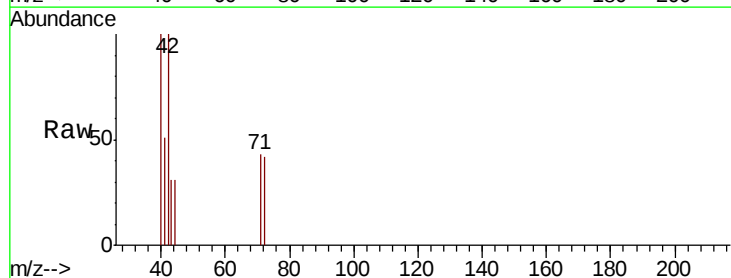
Tgt Ion: 42 Resp: 411

Ion Ratio Lower Upper

42 100

72 62.0 49.3 73.9

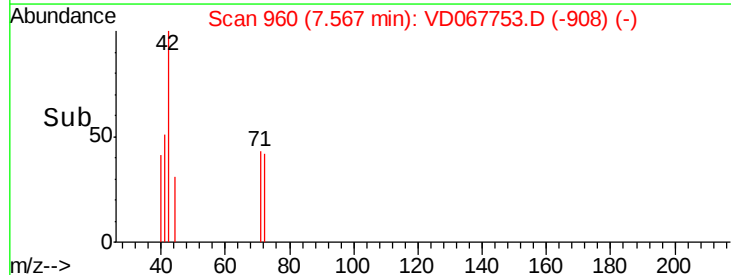
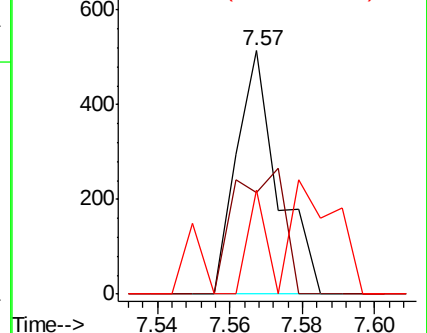
71 69.1 45.9 68.9#

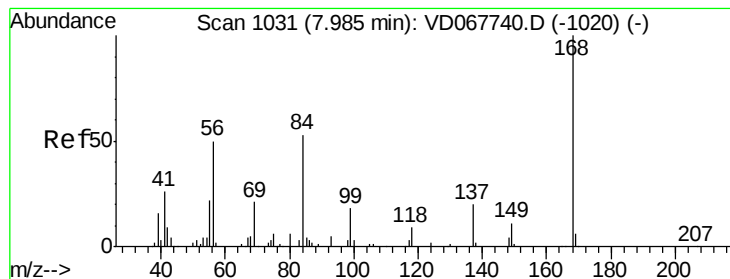


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC





#31

Cyclohexane

Concen: 2.965 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD067753.D

Acq: 23 Nov 2020 18:38

Instrument :

MSVOA_D

ClientSampleId :

OR-02-112020

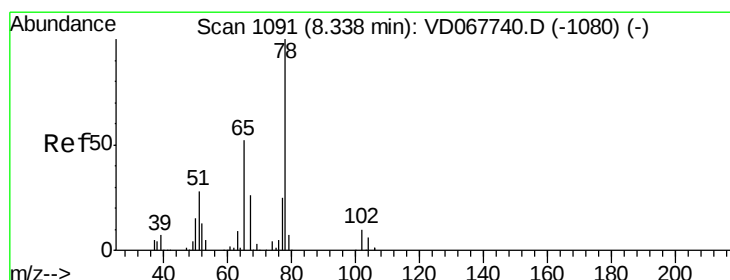
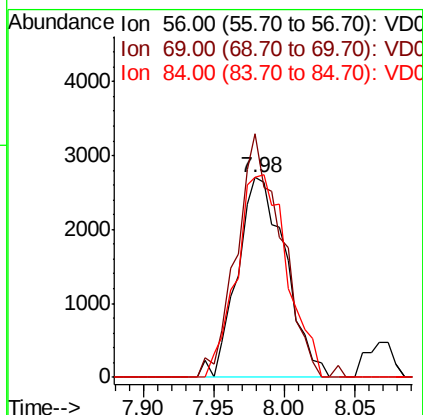
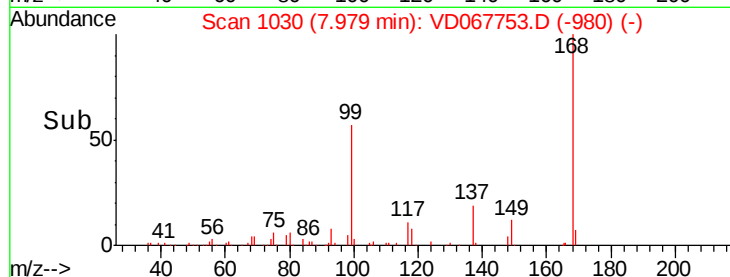
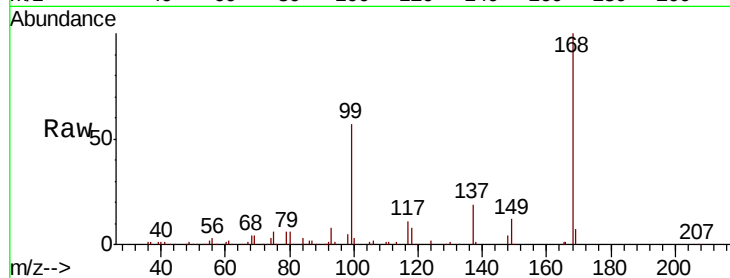
Tot Ion: 56 Resp: 6459

Ion Ratio Lower Upper

56 100

69 121.7 33.2 49.8#

84 100.4 84.8 127.2



#33

1,2-Dichloroethane-d4

Concen: 57.012 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.01 min

Lab File: VD067753.D

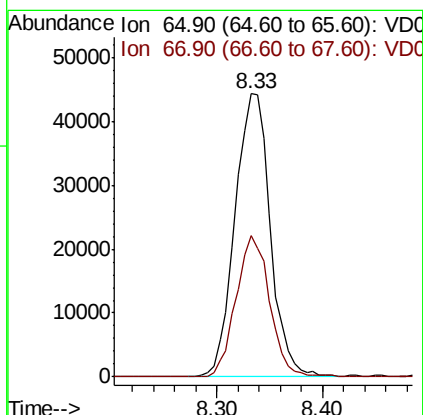
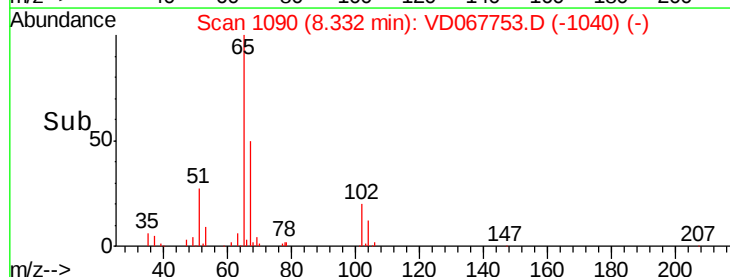
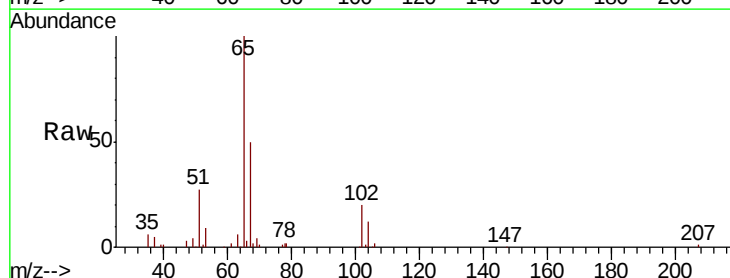
Acq: 23 Nov 2020 18:38

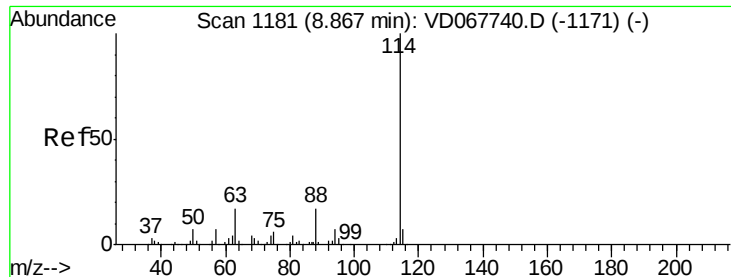
Tgt Ion: 65 Resp: 102632

Ion Ratio Lower Upper

65 100

67 47.6 0.0 101.0

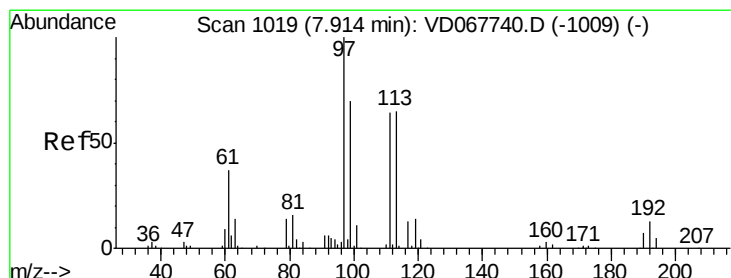
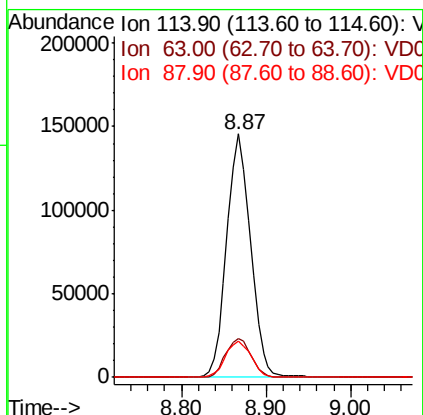
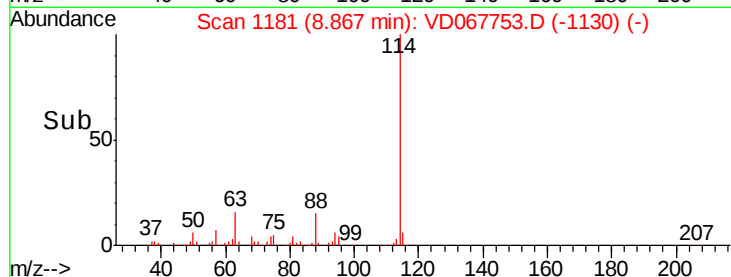
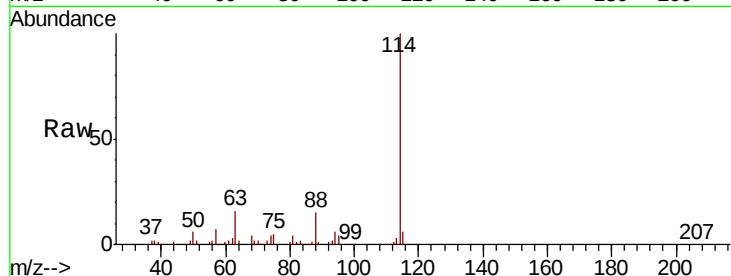




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.87 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD067753.D
Acq: 23 Nov 2020 18:38

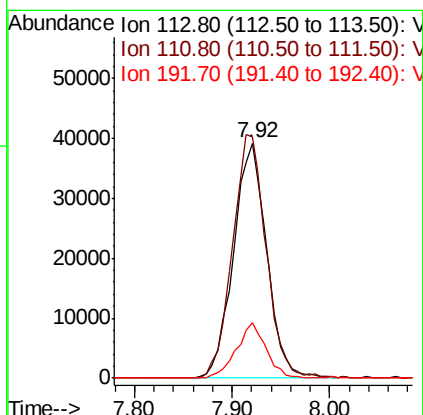
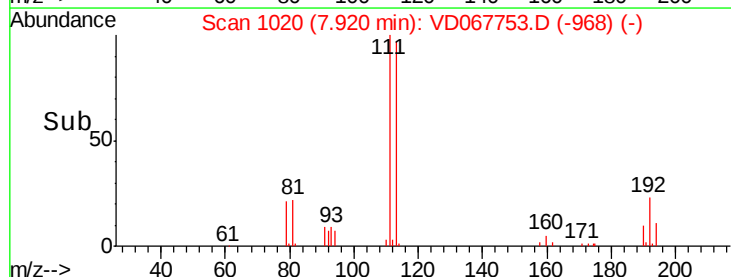
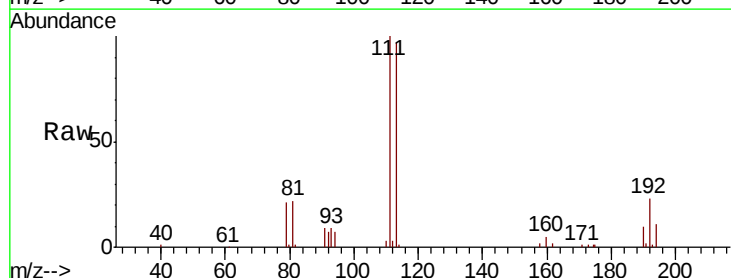
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MSVOA_D
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OR-02-112020

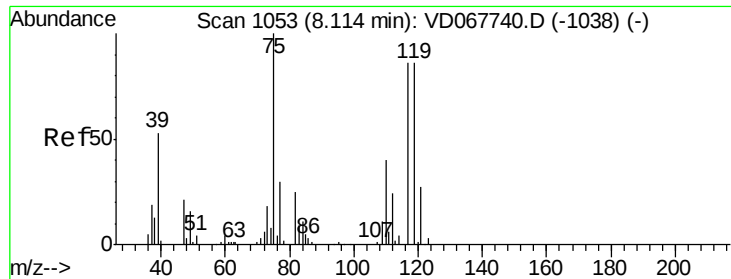
Tot Ion	Ratio	Lower	Upper
114	100		
63	16.1	0.0	34.8
88	14.9	0.0	34.4



#35
Dibromofluoromethane
Concen: 51.459 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. 0.01 min
Lab File: VD067753.D
Acq: 23 Nov 2020 18:38

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.6	81.4	122.0
192	20.9	17.0	25.4

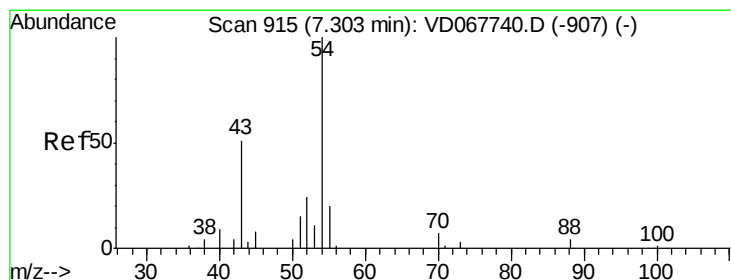
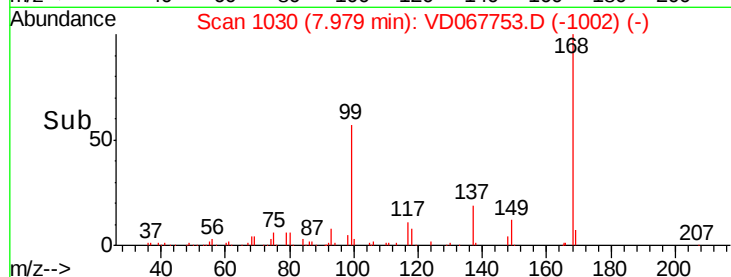
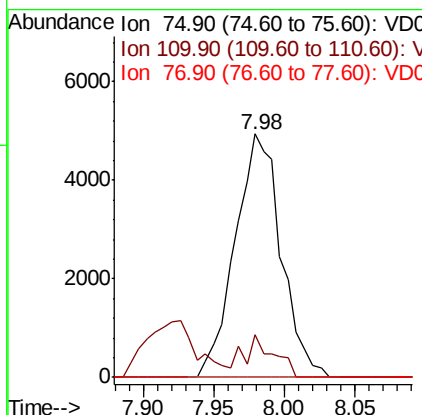
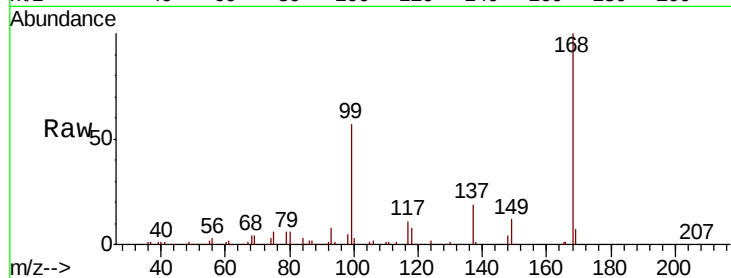




#36
 1,1-Dichloropropene
 Concen: 4.605 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD067753.D
 Acq: 23 Nov 2020 18:38

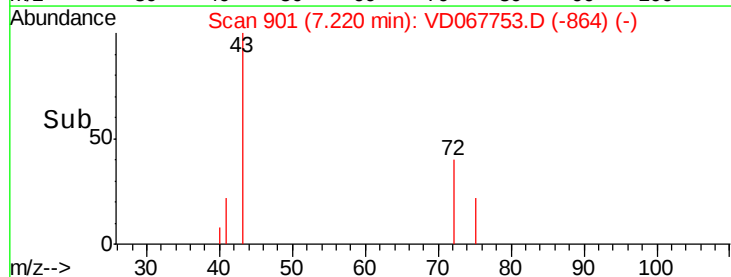
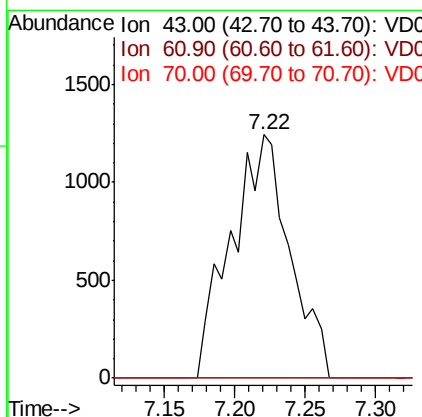
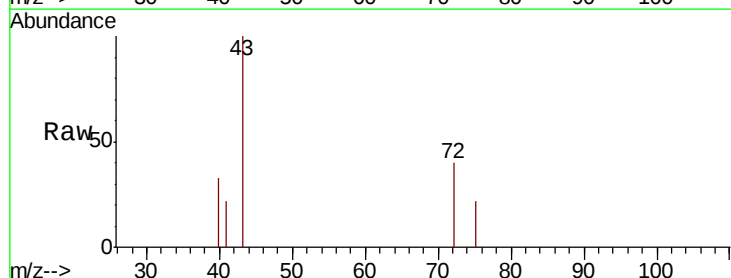
Instrument :
 MSVOA_D
 ClientSampleId :
 OR-02-112020

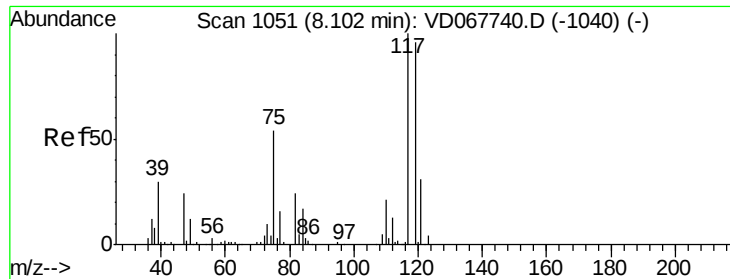
Tot Ion: 75 Resp: 11259
 Ion Ratio Lower Upper
 75 100
 110 11.1 20.1 60.2#
 77 0.0 24.8 37.2#



#37
 Ethyl Acetate
 Concen: 5.505 ug/l
 RT: 7.22 min Scan# 901
 Delta R.T. -0.08 min
 Lab File: VD067753.D
 Acq: 23 Nov 2020 18:38

Tgt Ion: 43 Resp: 3619
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.9 19.3#
 70 0.0 12.2 18.2#





#38

Carbon Tetrachloride

Concen: 5.541 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067753.D

Acq: 23 Nov 2020 18:38

Instrument :

MSVOA_D

ClientSampleId :

OR-02-112020

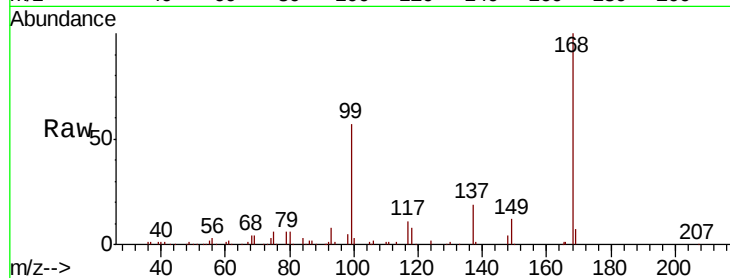
Tot Ion:117 Resp: 19635

Ion Ratio Lower Upper

117 100

119 4.4 76.6 115.0#

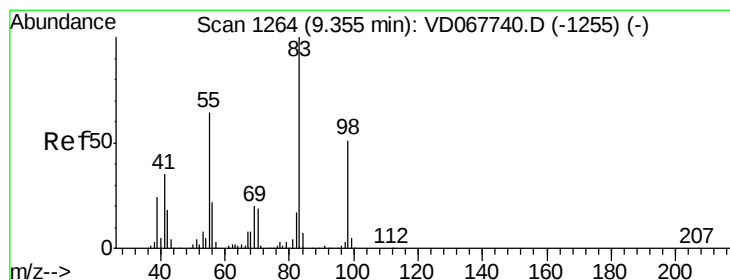
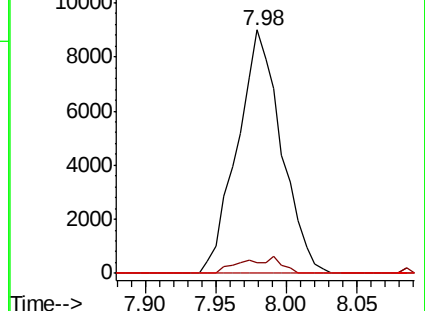
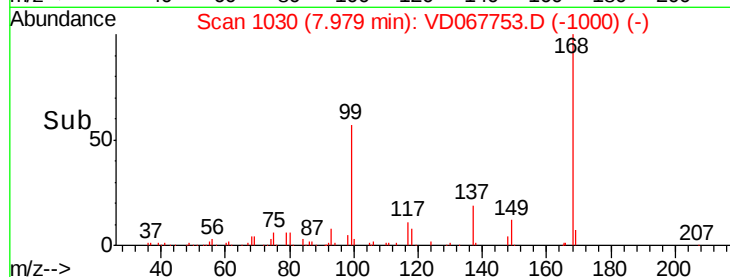
121 0.0 24.5 36.7#



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



#39

Methylcyclohexane

Concen: 2.795 ug/l

RT: 9.36 min Scan# 1265

Delta R.T. 0.01 min

Lab File: VD067753.D

Acq: 23 Nov 2020 18:38

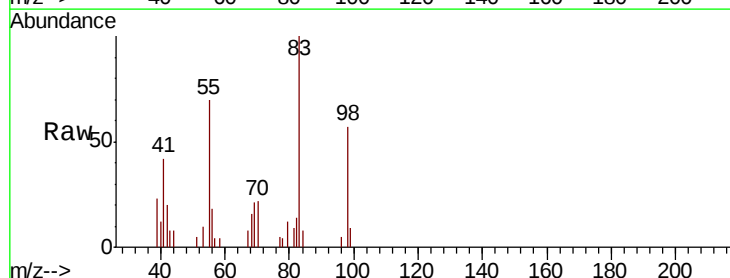
Tgt Ion: 83 Resp: 8086

Ion Ratio Lower Upper

83 100

55 62.0 51.0 76.4

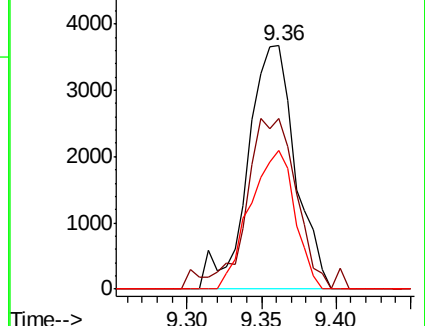
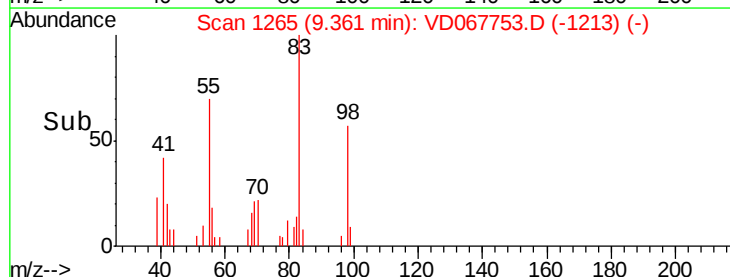
98 57.2 40.4 60.6

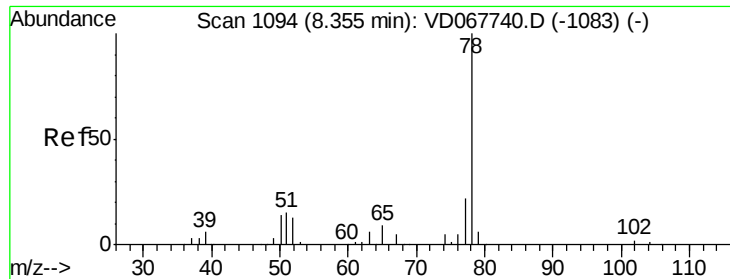


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#40

Benzene

Concen: 1.041 ug/l

RT: 8.35 min Scan# 1093

Delta R.T. -0.01 min

Lab File: VD067753.D

Acq: 23 Nov 2020 18:38

Instrument :

MSVOA_D

ClientSampleId :

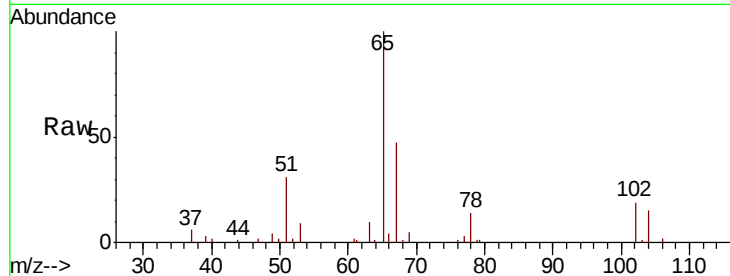
OR-02-112020

Tot Ion: 78 Resp: 6988

Ion Ratio Lower Upper

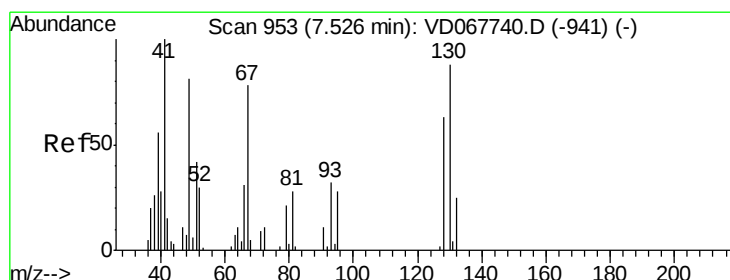
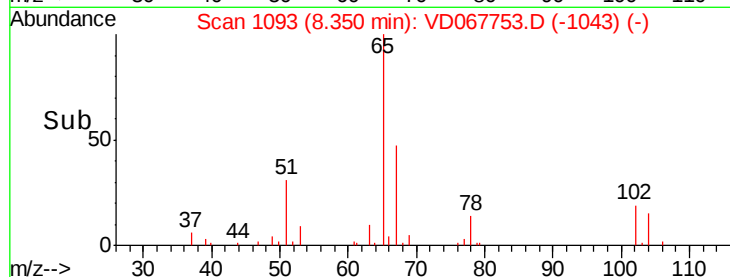
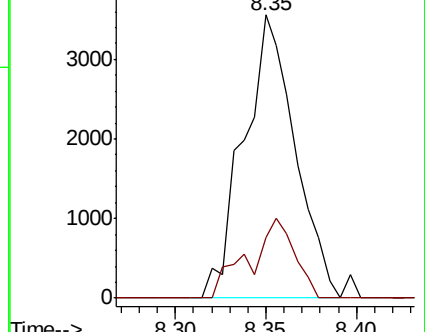
78 100

77 21.4 17.8 26.6



Abundance Ion 78.00 (77.70 to 78.70): VDC

Ion 77.00 (76.70 to 77.70): VDC



#41

Methacrylonitrile

Concen: 1.004 ug/l

RT: 7.56 min Scan# 959

Delta R.T. 0.04 min

Lab File: VD067753.D

Acq: 23 Nov 2020 18:38

Tgt Ion: 41 Resp: 337

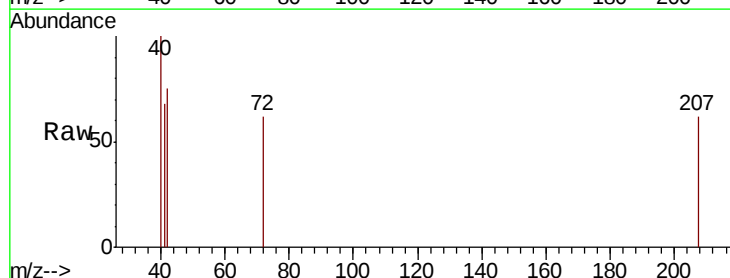
Ion Ratio Lower Upper

41 100

39 35.0 50.2 75.4#

67 0.0 79.0 118.6#

52 0.0 32.4 48.6#

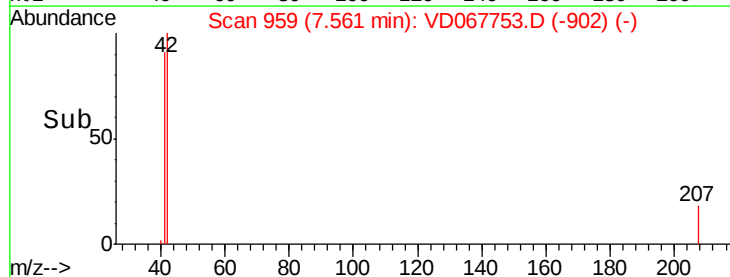
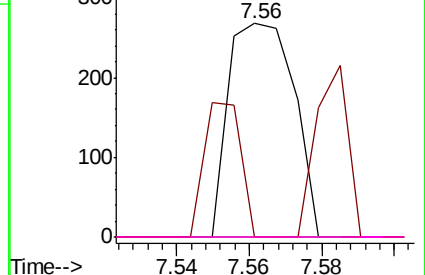


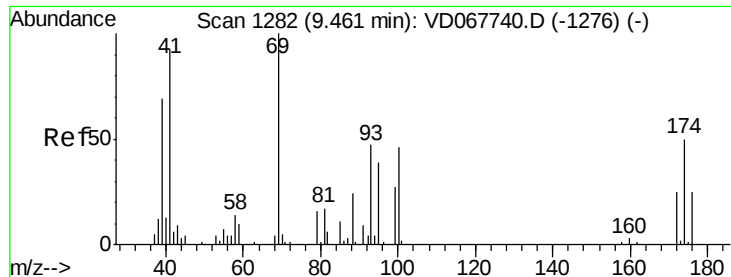
Abundance Ion 41.00 (40.70 to 41.70): VDC

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

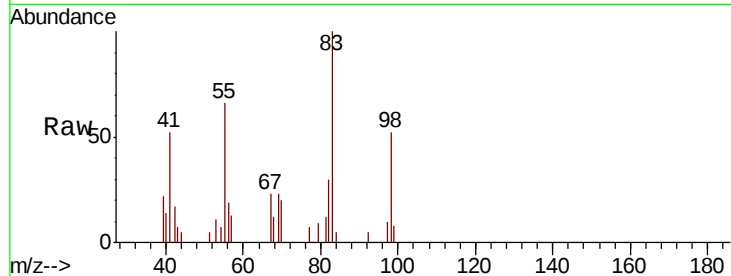




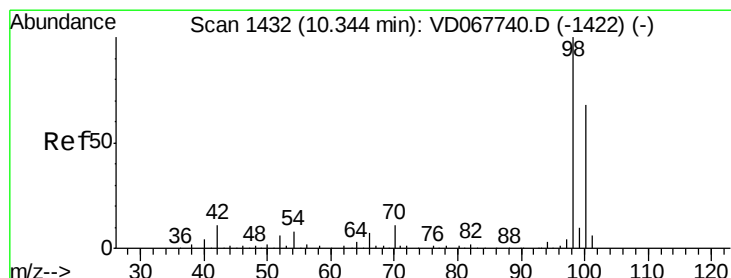
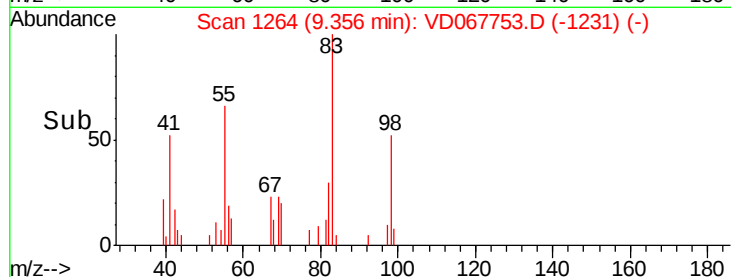
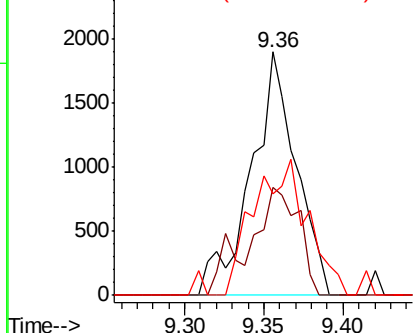
#48
Methyl methacrylate
Concen: 5.731 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.11 min
Lab File: VD067753.D
Acq: 23 Nov 2020 18:38

Instrument :
MSVOA_D
ClientSampleId :
OR-02-112020

Tot Ion: 41 Resp: 3761
Ion Ratio Lower Upper
41 100
69 38.0 87.8 131.6#
39 67.0 60.5 90.7

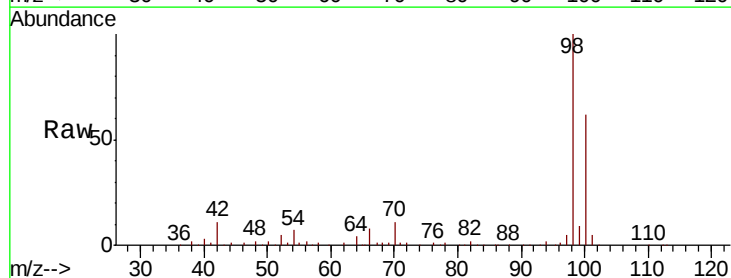


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 39.00 (38.70 to 39.70): VDC

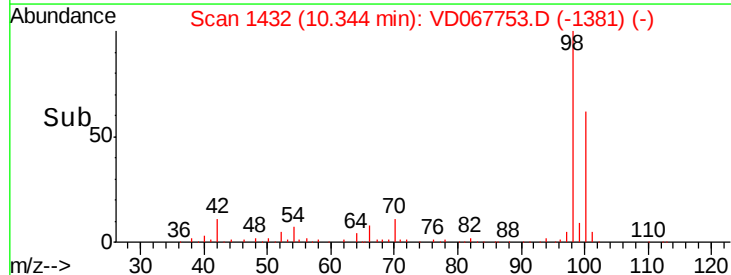
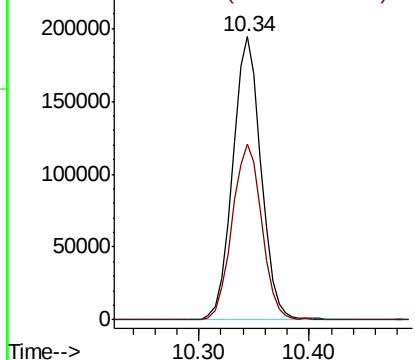


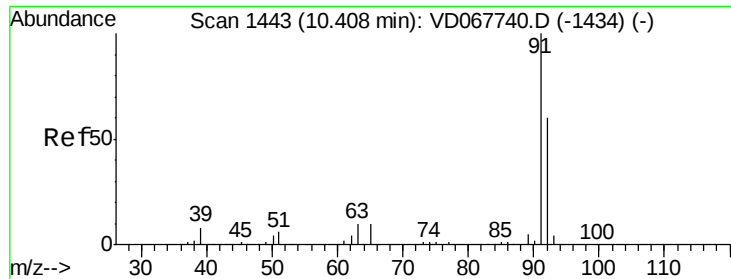
#50
Toluene-d8
Concen: 52.814 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD067753.D
Acq: 23 Nov 2020 18:38

Tgt Ion: 98 Resp: 350086
Ion Ratio Lower Upper
98 100
100 65.3 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC





#52

Toluene

Concen: 4.872 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.01 min

Lab File: VD067753.D

Acq: 23 Nov 2020 18:38

Instrument :

MSVOA_D

ClientSampleId :

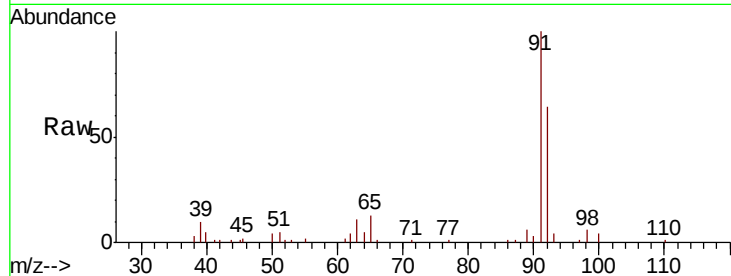
OR-02-112020

Tot Ion: 92 Resp: 22193

Ion Ratio Lower Upper

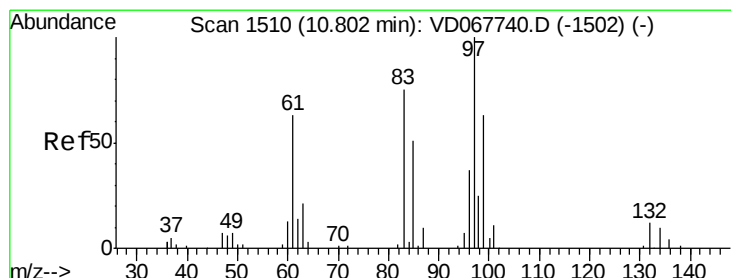
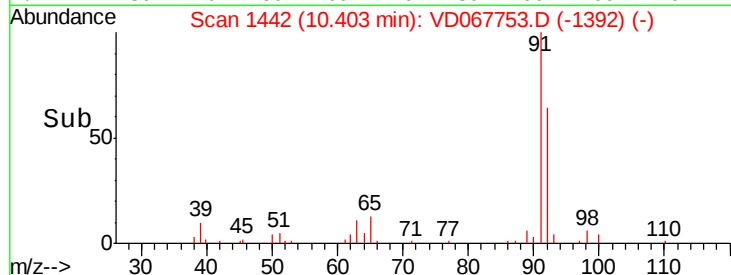
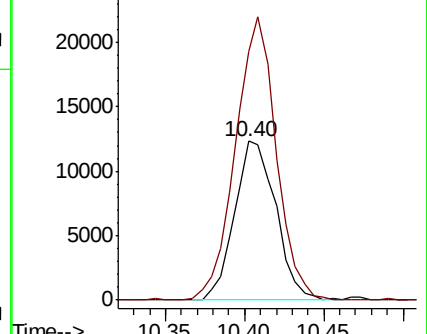
92 100

91 176.3 135.4 203.0



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#55

1,1,2-Trichloroethane

Concen: 2.282 ug/l

RT: 10.78 min Scan# 1506

Delta R.T. -0.02 min

Lab File: VD067753.D

Acq: 23 Nov 2020 18:38

Tgt Ion: 97 Resp: 2872

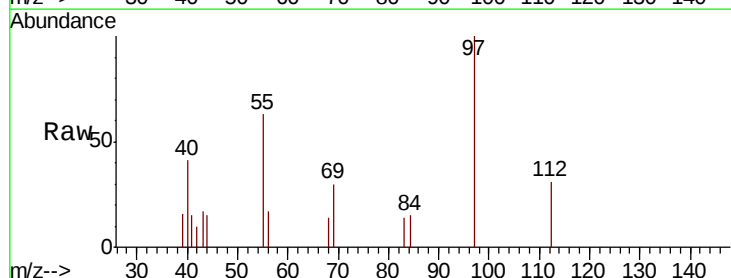
Ion Ratio Lower Upper

97 100

83 14.2 60.2 90.4#

85 0.0 40.5 60.7#

99 0.0 50.6 76.0#

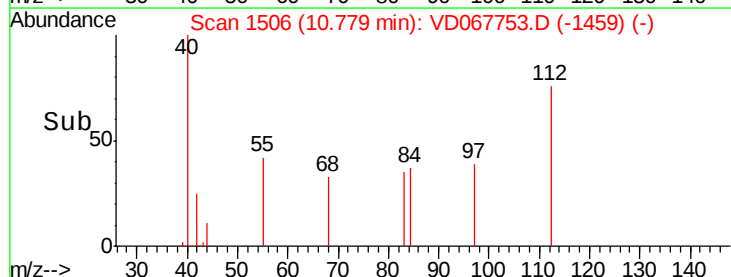
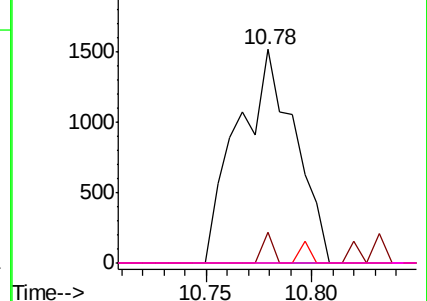


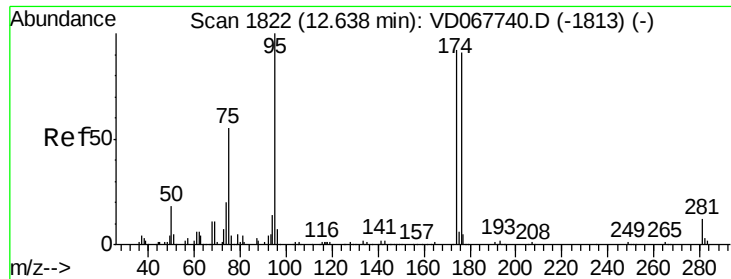
Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC

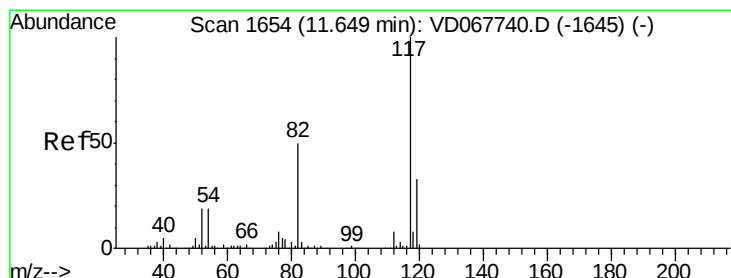
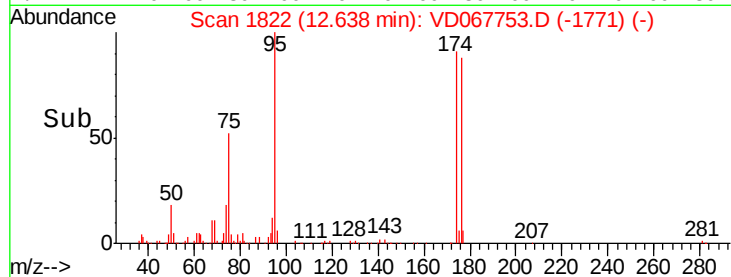
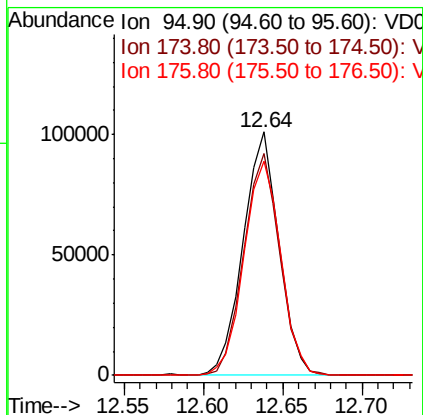
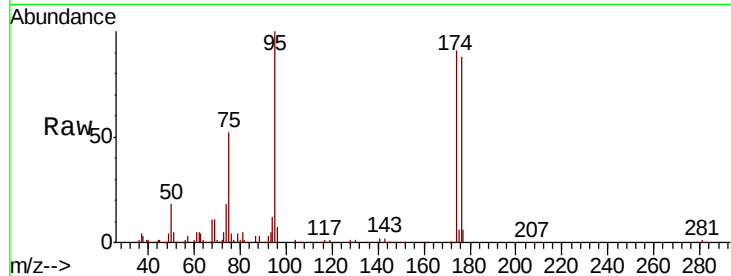




#62
4-Bromofluorobenzene
Concen: 70.339 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD067753.D
Acq: 23 Nov 2020 18:38

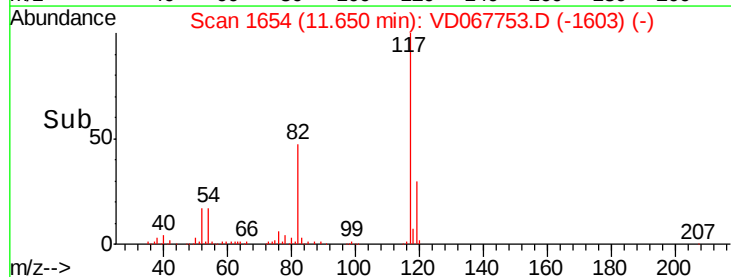
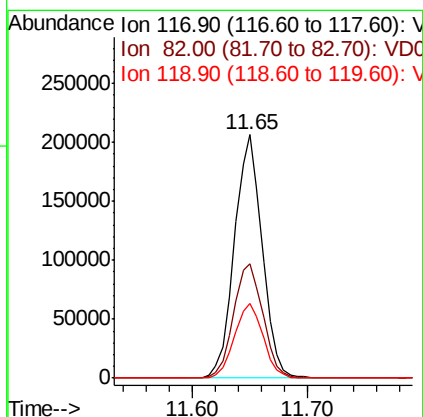
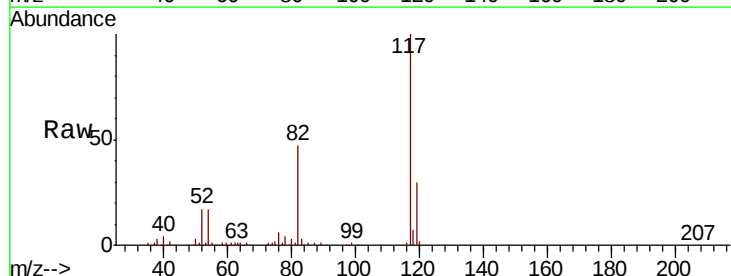
Instrument :
MSVOA_D
ClientSampleId :
OR-02-112020

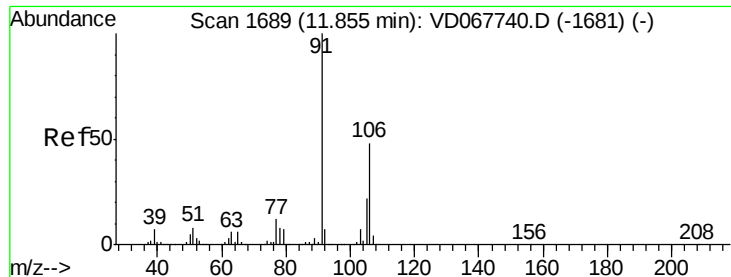
Tot Ion	Ratio	Lower	Upper
95	100		
174	91.1	0.0	182.4
176	90.2	0.0	178.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD067753.D
Acq: 23 Nov 2020 18:38

Tgt Ion	Ratio	Lower	Upper
117	100		
82	46.9	40.2	60.4
119	30.5	26.5	39.7





#68

m/p-Xylenes

Concen: 2.304 ug/l

RT: 11.85 min Scan# 1688

Delta R.T. -0.01 min

Lab File: VD067753.D

Acq: 23 Nov 2020 18:38

Instrument :

MSVOA_D

ClientSampleId :

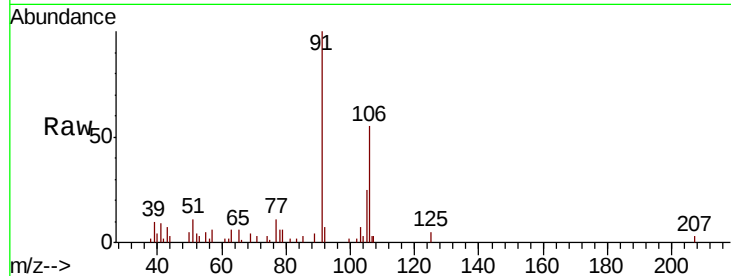
OR-02-112020

Tot Ion:106 Resp: 10414

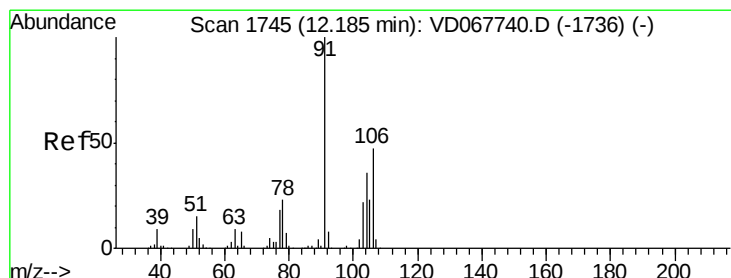
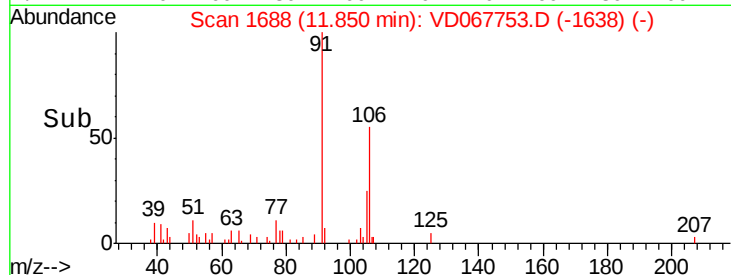
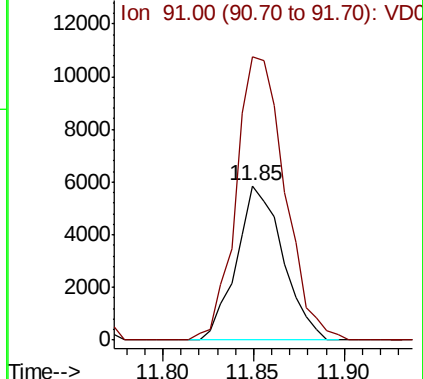
Ion Ratio Lower Upper

106 100

91 193.3 163.0 244.6



Abundance Ion 106.00 (105.70 to 106.70): V



#69

o-Xylene

Concen: 1.149 ug/l

RT: 12.18 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VD067753.D

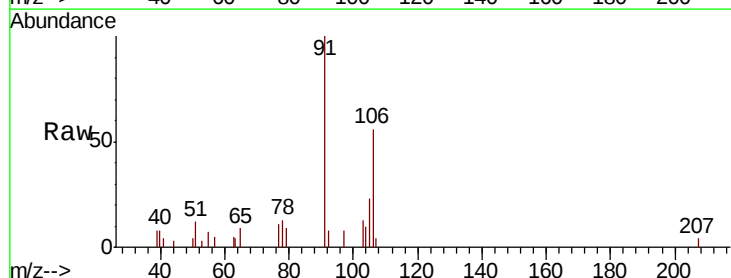
Acq: 23 Nov 2020 18:38

Tgt Ion:106 Resp: 4731

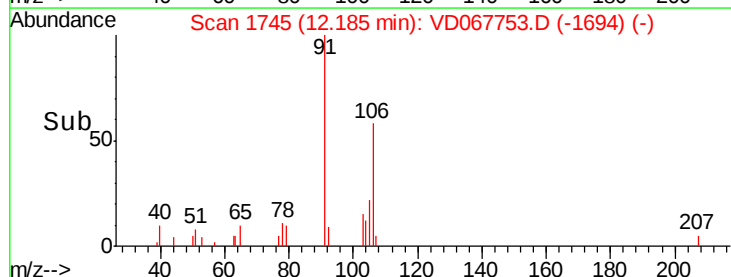
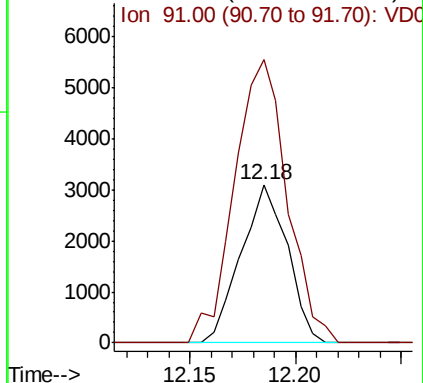
Ion Ratio Lower Upper

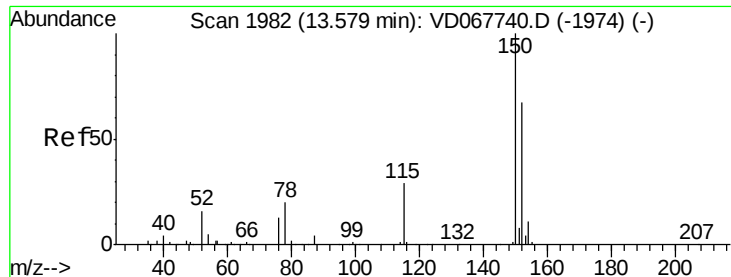
106 100

91 203.1 106.2 318.6



Abundance Ion 106.00 (105.70 to 106.70): 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: VD067753.D

Acq: 23 Nov 2020 18:38

Instrument :

MSVOA_D

ClientSampleId :

OR-02-112020

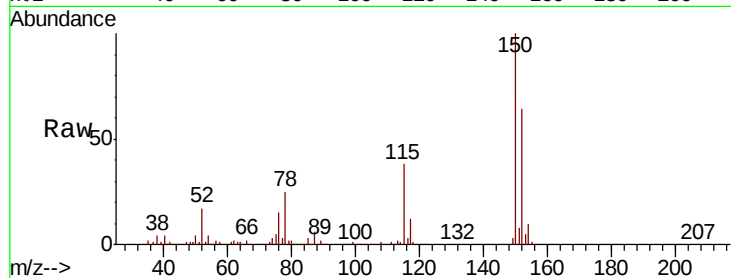
Tot Ion:152 Resp: 188450

Ion Ratio Lower Upper

152 100

115 58.7 29.4 88.3

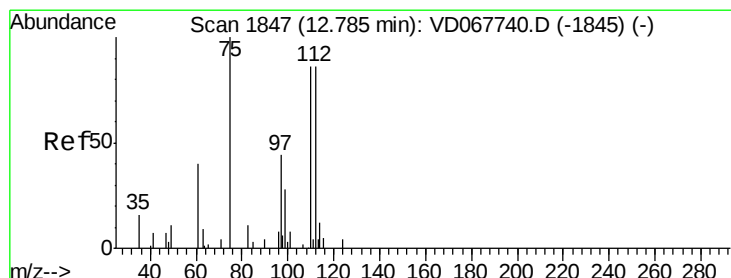
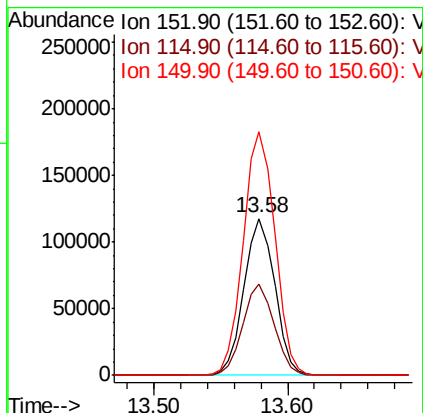
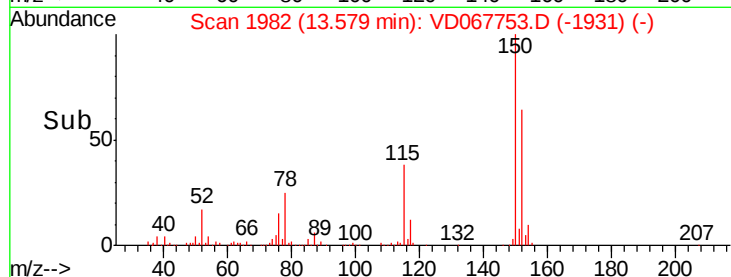
150 158.4 0.0 340.6



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: 64.756 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067753.D

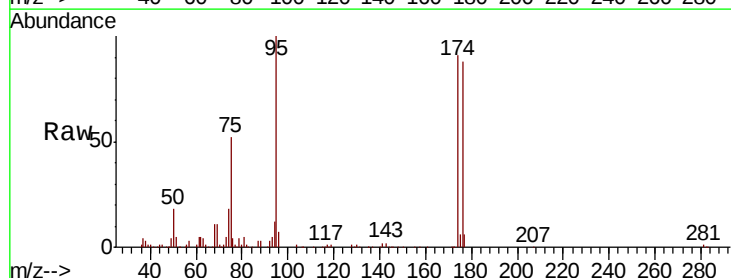
Acq: 23 Nov 2020 18:38

Tgt Ion: 75 Resp: 85051

Ion Ratio Lower Upper

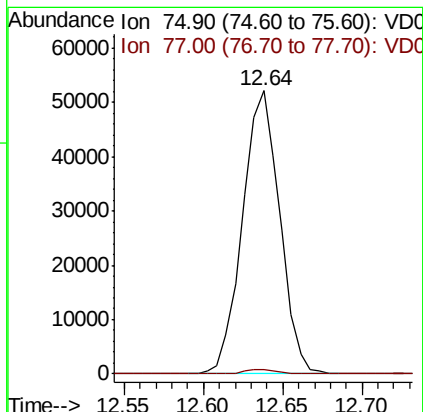
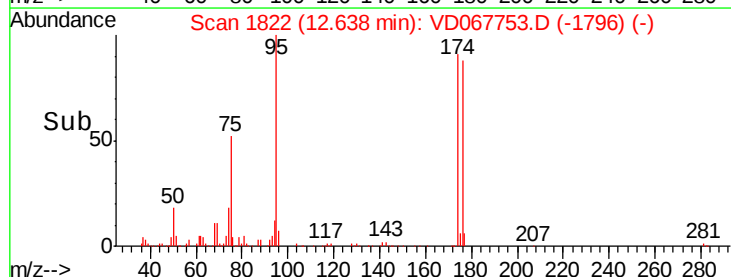
75 100

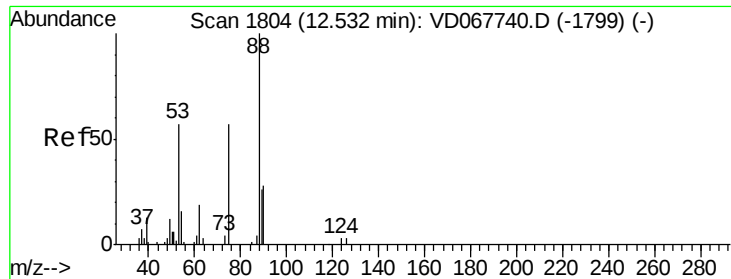
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

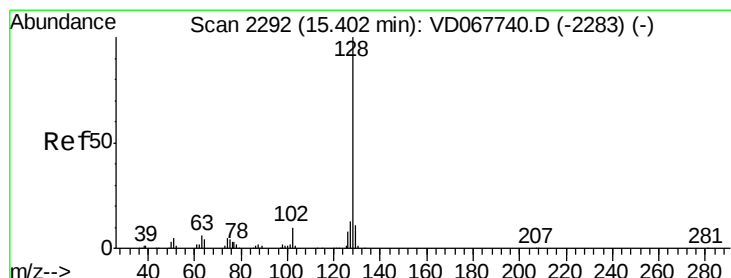
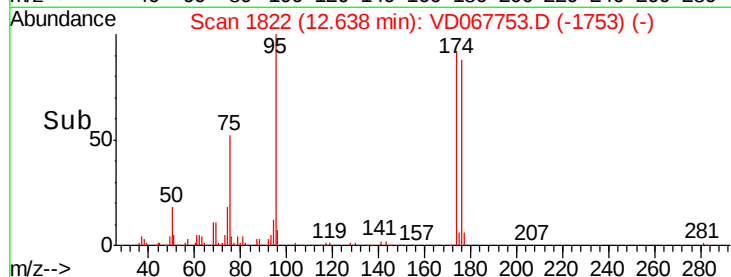
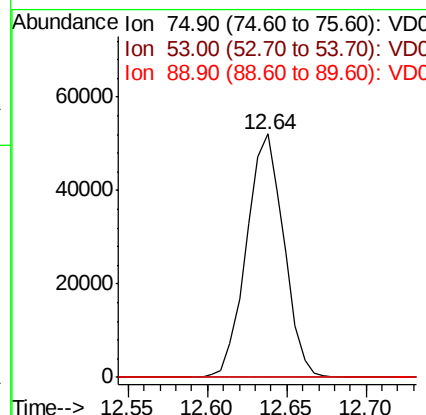
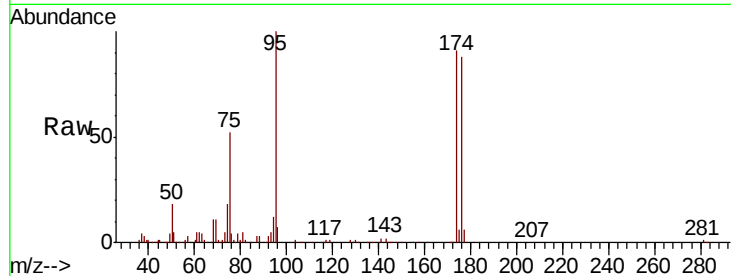




#81
trans-1,4-Dichloro-2-butene
Concen: 151.459 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.11 min
Lab File: VD067753.D
Acq: 23 Nov 2020 18:38

Instrument :
MSVOA_D
ClientSampleId :
OR-02-112020

Tot Ion: 75 Resp: 85051
Ion Ratio Lower Upper
75 100
53 0.2 76.0 114.0#
89 0.0 40.2 60.4#



#95
Naphthalene
Concen: 23.361 ug/l
RT: 15.40 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VD067753.D
Acq: 23 Nov 2020 18:38

Tgt Ion:128 Resp: 138524
Ion Ratio Lower Upper
128 100
127 13.1 10.7 16.1
129 11.0 8.6 12.8

