

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD092622\
 Data File : VD074420.D
 Acq On : 26 Sep 2022 15:06
 Operator : VA/SY
 Sample : VIBLK
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

Quant Time: Sep 27 03:23:46 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D092622S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 27 03:19:14 2022
 Response via : Initial Calibration

Compound	R.T. QIon		Response	Conc	Units	Dev(Min)

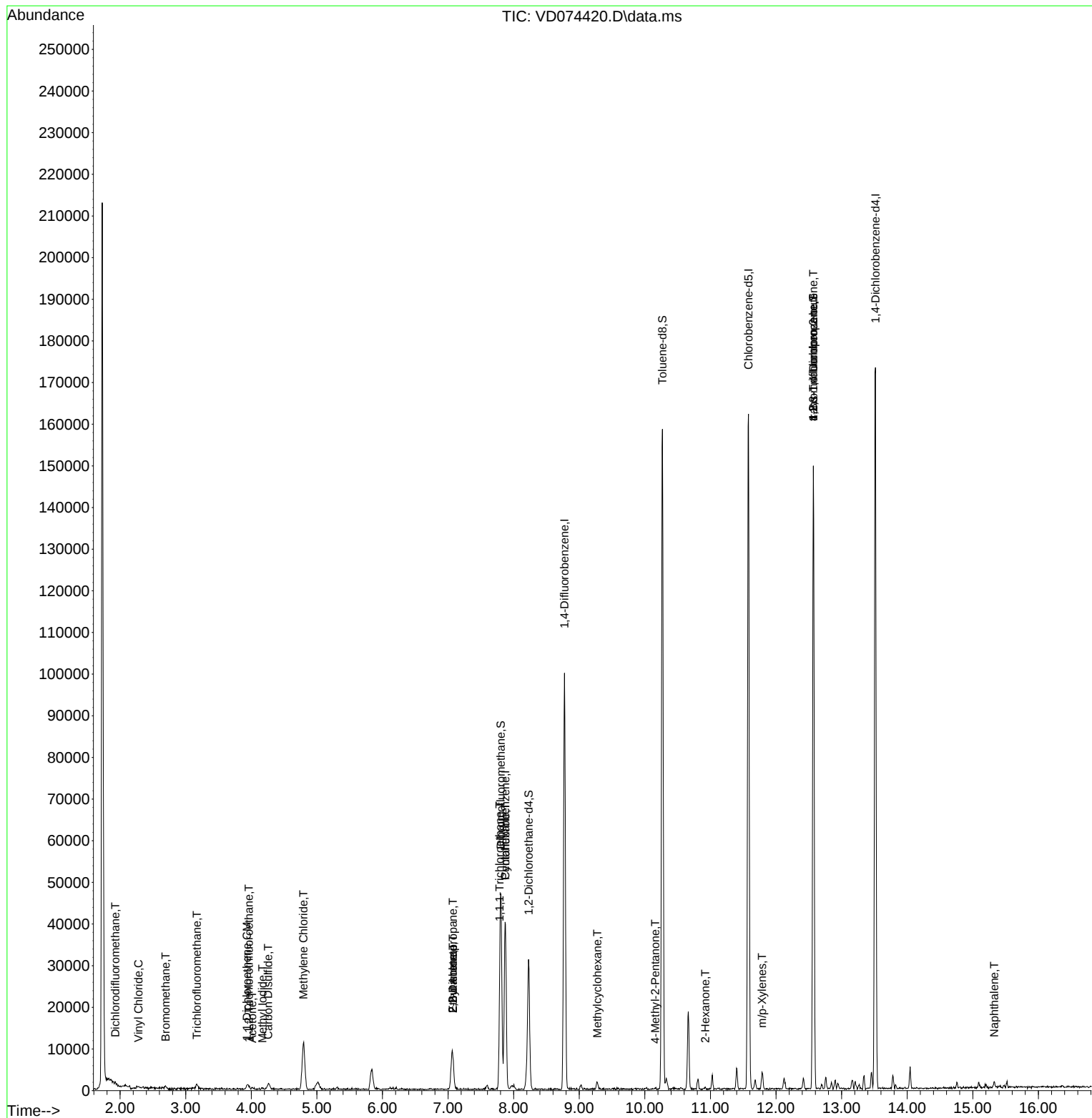
Internal Standards						
1) Pentafluorobenzene	7.875	168	33644	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	94531	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	102982	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	50691	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	24041	82.999	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 166.000%#	
35) Dibromofluoromethane	7.804	113	35046	55.446	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 110.900%	
50) Toluene-d8	10.269	98	118394	55.073	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 110.140%	
62) 4-Bromofluorobenzene	12.569	95	42984	58.250	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 116.500%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.928	85	495	1.792	ug/l #	52
3) Chloromethane	2.140	50	576	Below Cal	#	37
4) Vinyl Chloride	2.281	62	366	1.544	ug/l #	43
5) Bromomethane	2.693	94	368	2.020	ug/l	97
7) Trichlorofluoromethane	3.169	101	1327	2.428	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.963	101	730	1.969	ug/l #	40
10) Methyl Iodide	4.169	142	505	8.297	ug/l #	56
11) Tert butyl alcohol	5.022	59	1770	Below Cal	#	84
12) 1,1-Dichloroethene	3.934	96	574	1.641	ug/l #	65
16) Acetone	4.016	43	675	12.012	ug/l #	37
17) Carbon Disulfide	4.258	76	3021	2.012	ug/l #	73
20) Methylene Chloride	4.793	84	10355	20.037	ug/l	93
25) 2-Butanone	7.075	43	804	10.442	ug/l #	42
26) 2,2-Dichloropropane	7.075	77	1361	2.355	ug/l #	50
31) Cyclohexane	7.875	56	1443	2.934	ug/l #	69
32) 1,1,1-Trichloroethane	7.787	97	834	1.390	ug/l #	32
37) Ethyl Acetate	7.075	43	804	2.842	ug/l #	1
39) Methylcyclohexane	9.275	83	1284	1.262	ug/l #	88
51) 4-Methyl-2-Pentanone	10.157	43	395	1.398	ug/l #	29
59) 2-Hexanone	10.922	43	365	1.913	ug/l #	57
68) m/p-Xylenes	11.787	106	1715	1.114	ug/l	95
76) 1,2,3-Trichloropropane	12.569	75	21082	53.173	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.569	75	21082	129.755	ug/l #	17
95) Naphthalene	15.328	128	2014	1.024	ug/l #	69

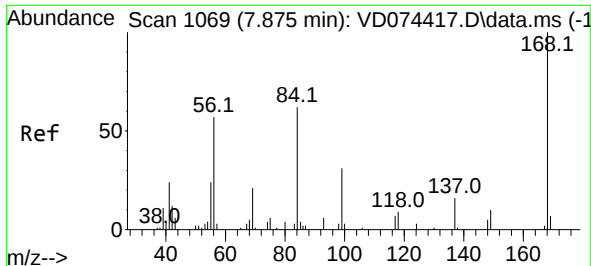
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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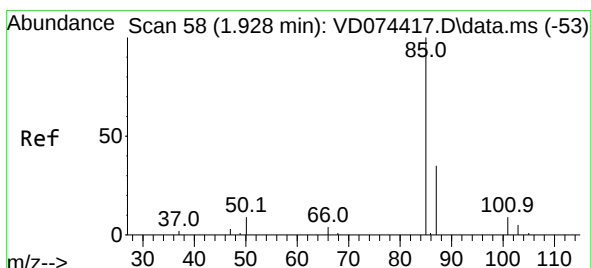
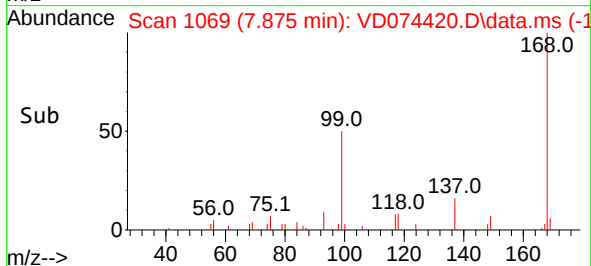
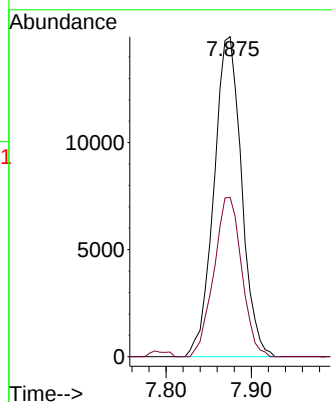
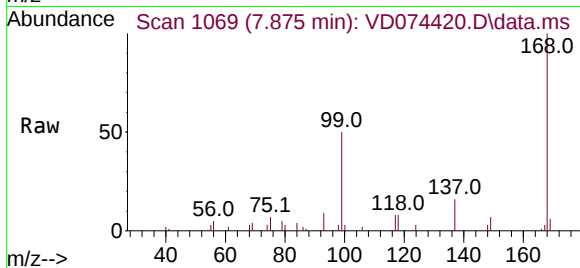




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

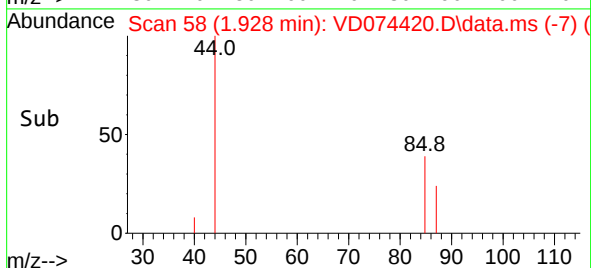
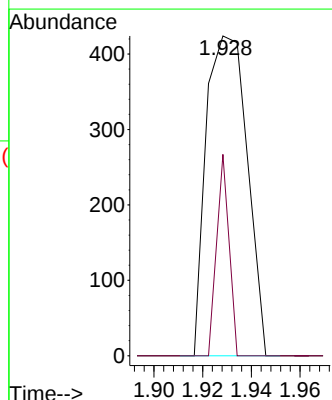
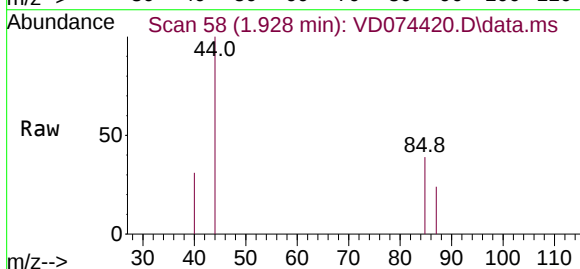
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

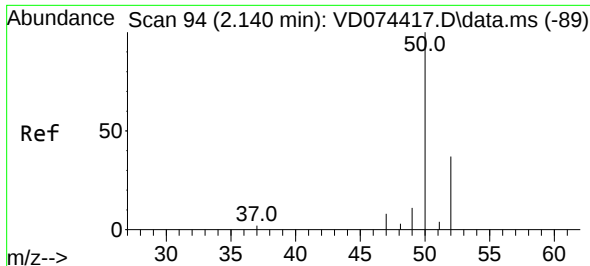
Tgt Ion:168 Resp: 33644
Ion Ratio Lower Upper
168 100
99 49.8 40.9 61.3



#2
Dichlorodifluoromethane
Concen: 1.792 ug/l
RT: 1.928 min Scan# 58
Delta R.T. 0.000 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

Tgt Ion: 85 Resp: 495
Ion Ratio Lower Upper
85 100
87 63.0 17.5 52.6#

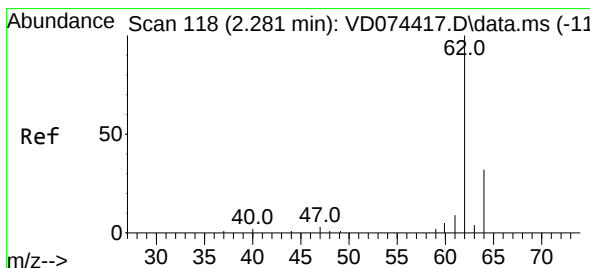
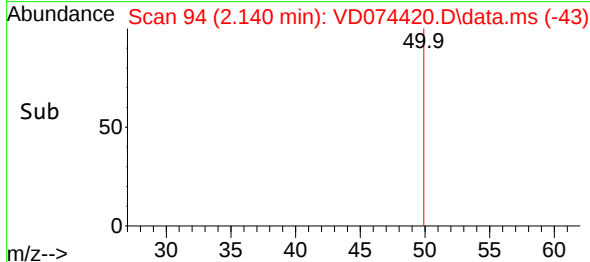
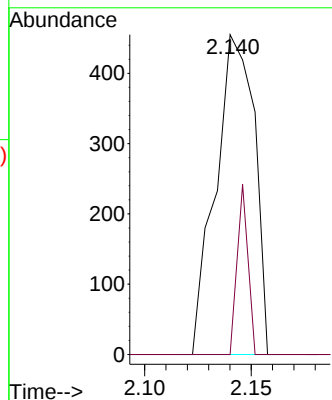
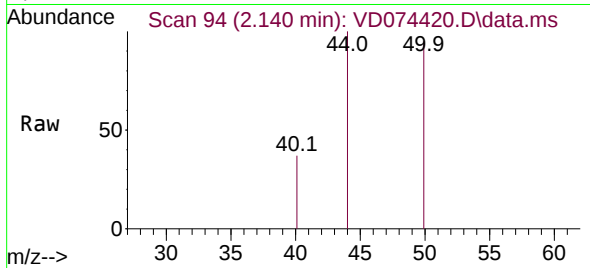




#3
Chloromethane
Concen: Below Cal
RT: 2.140 min Scan# 94
Delta R.T. 0.000 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

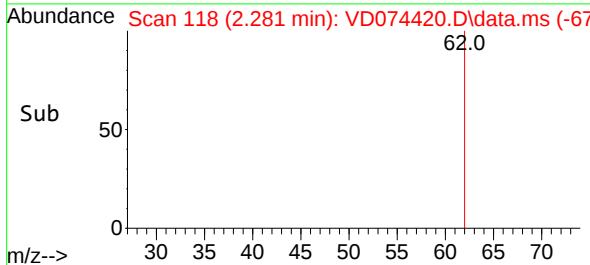
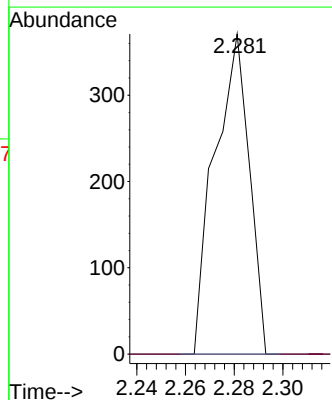
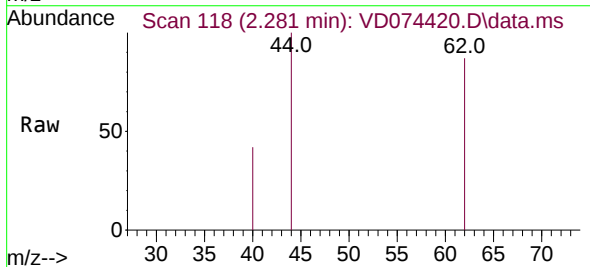
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

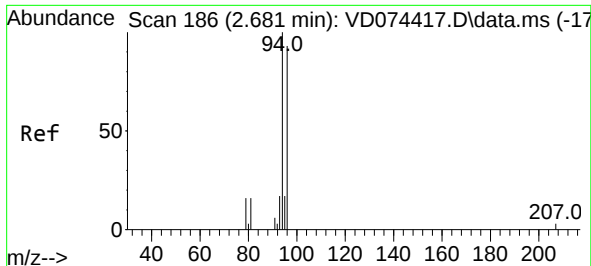
Tgt Ion: 50 Resp: 576
Ion Ratio Lower Upper
50 100
52 0.0 30.0 45.0#



#4
Vinyl Chloride
Concen: 1.544 ug/l
RT: 2.281 min Scan# 118
Delta R.T. 0.000 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

Tgt Ion: 62 Resp: 366
Ion Ratio Lower Upper
62 100
64 0.0 25.5 38.3#

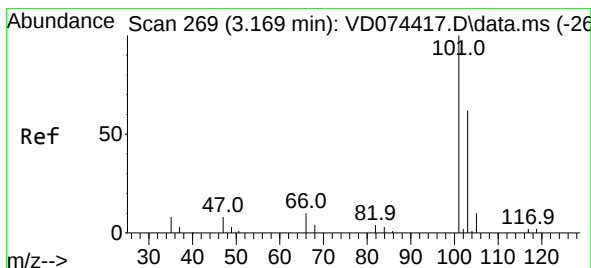
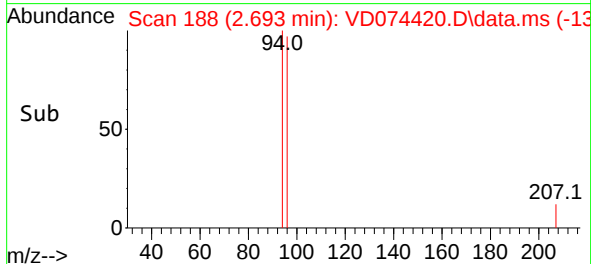
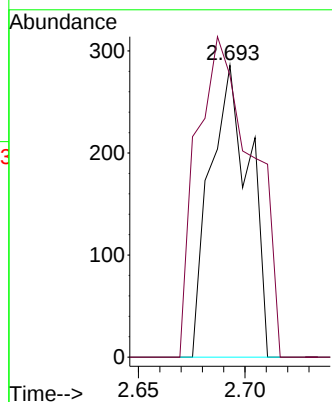
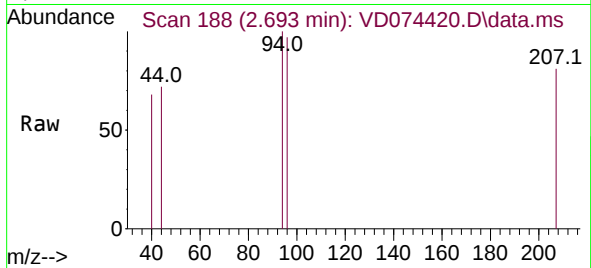




#5
Bromomethane
Concen: 2.020 ug/l
RT: 2.693 min Scan# 186
Delta R.T. 0.012 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

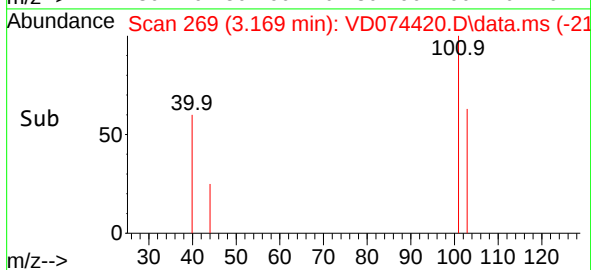
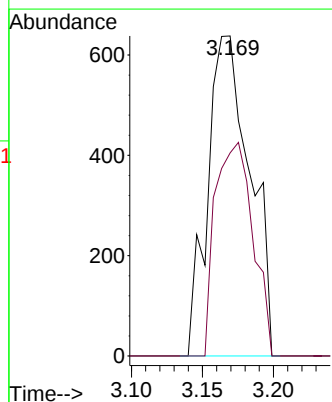
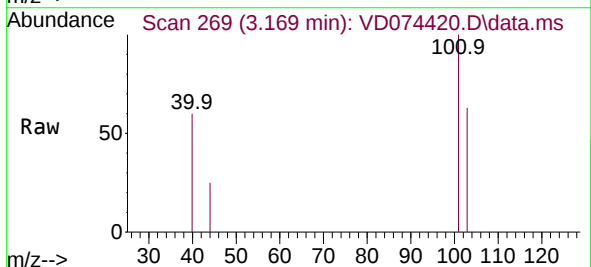
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

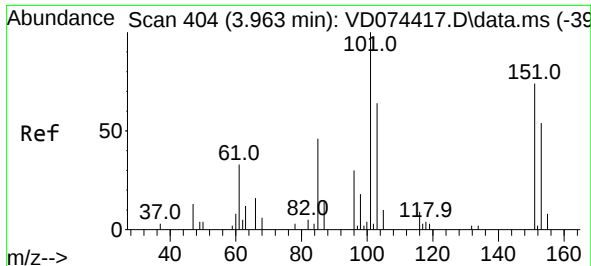
Tgt Ion: 94 Resp: 368
Ion Ratio Lower Upper
94 100
96 96.5 74.6 112.0



#7
Trichlorofluoromethane
Concen: 2.428 ug/l
RT: 3.169 min Scan# 269
Delta R.T. 0.000 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

Tgt Ion: 101 Resp: 1327
Ion Ratio Lower Upper
101 100
103 63.5 49.8 74.8

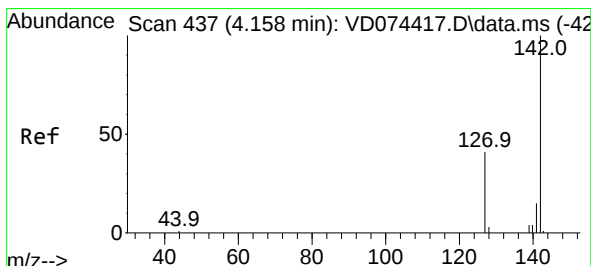
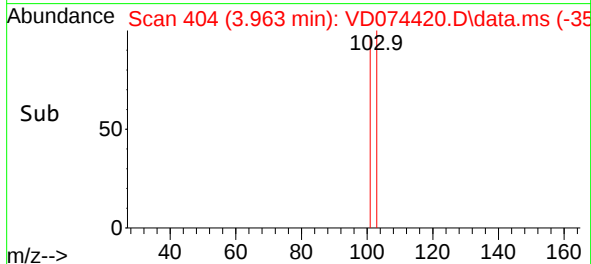
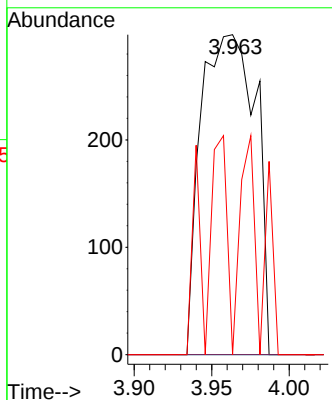
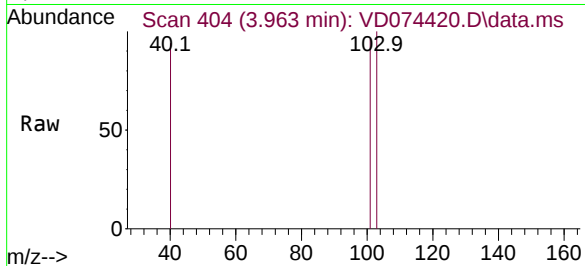




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.969 ug/l
 RT: 3.963 min Scan# 404
 Delta R.T. 0.000 min
 Lab File: VD074420.D
 Acq: 26 Sep 2022 15:06

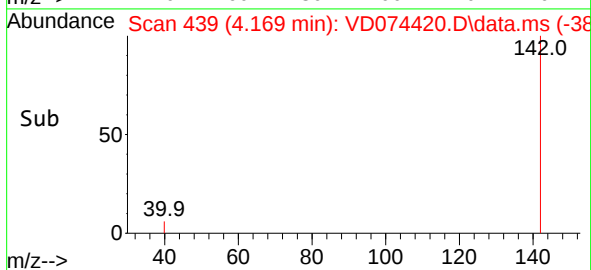
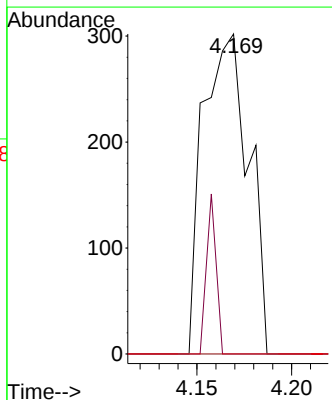
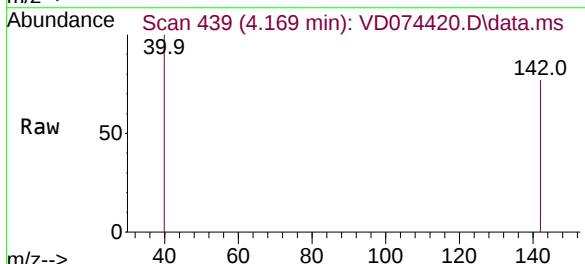
Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

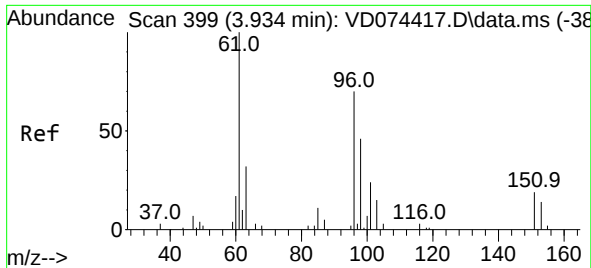
Tgt Ion:101 Resp: 730
 Ion Ratio Lower Upper
 101 100
 85 0.0 34.1 51.1#
 151 28.5 61.7 92.5#



#10
 Methyl Iodide
 Concen: 8.297 ug/l
 RT: 4.169 min Scan# 439
 Delta R.T. 0.011 min
 Lab File: VD074420.D
 Acq: 26 Sep 2022 15:06

Tgt Ion:142 Resp: 505
 Ion Ratio Lower Upper
 142 100
 127 10.5 31.9 47.9#
 141 0.0 11.4 17.2#





#12

1,1-Dichloroethene

Concen: 1.641 ug/l

RT: 3.934 min Scan# 399

Delta R.T. 0.000 min

Lab File: VD074420.D

Acq: 26 Sep 2022 15:06

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

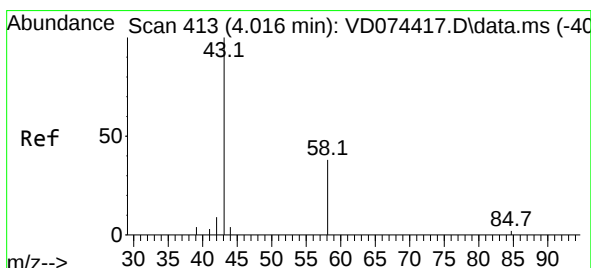
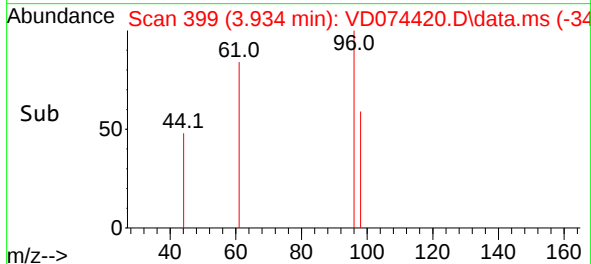
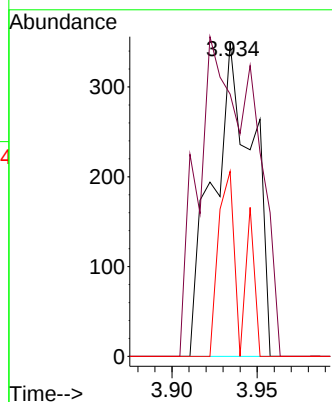
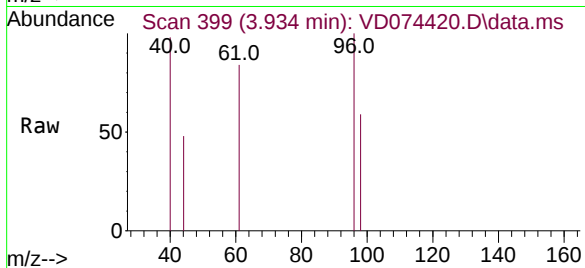
Tgt Ion: 96 Resp: 574

Ion Ratio Lower Upper

96 100

61 83.7 113.9 170.9#

98 59.0 51.8 77.8



#16

Acetone

Concen: 12.012 ug/l

RT: 4.016 min Scan# 413

Delta R.T. 0.000 min

Lab File: VD074420.D

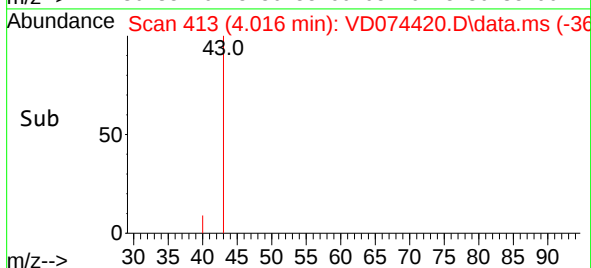
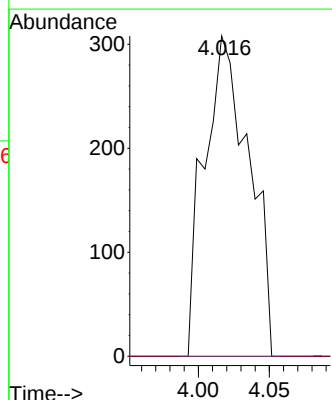
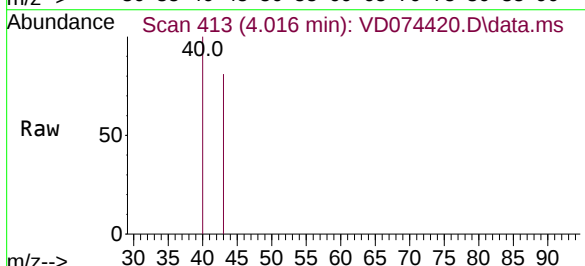
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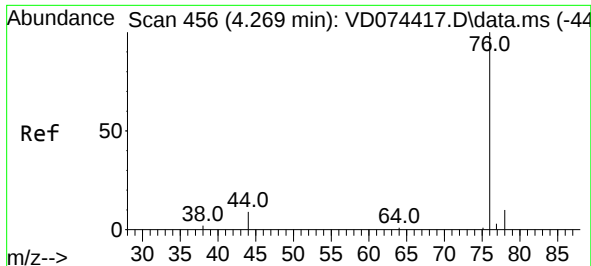
Tgt Ion: 43 Resp: 675

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.2#

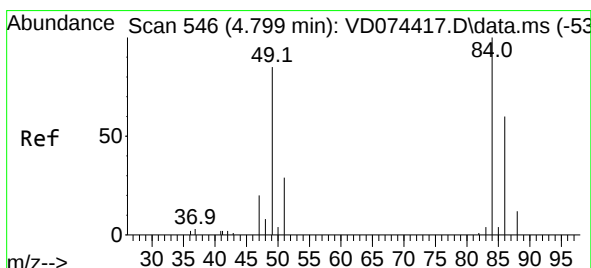
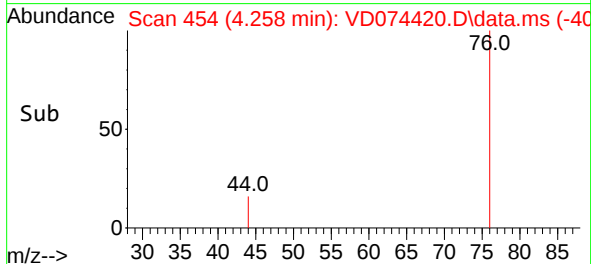
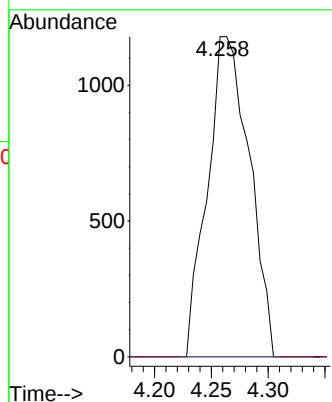
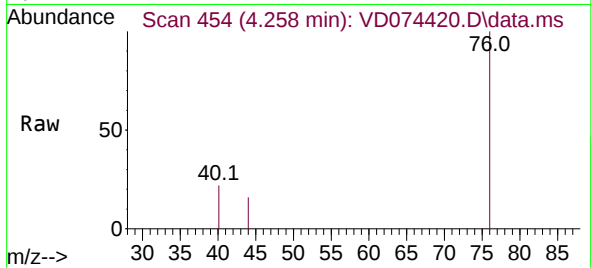




#17
Carbon Disulfide
Concen: 2.012 ug/l
RT: 4.258 min Scan# 411
Delta R.T. -0.011 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

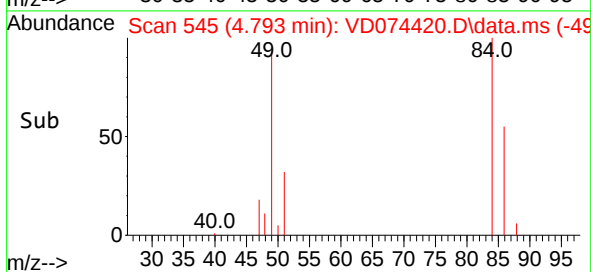
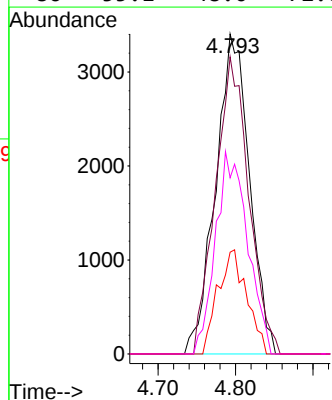
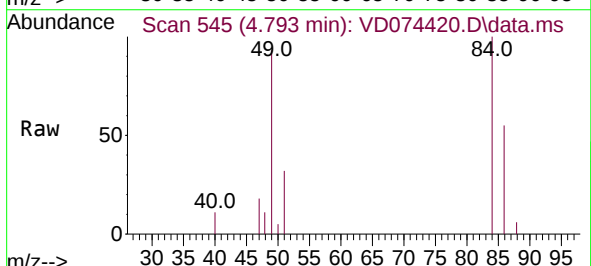
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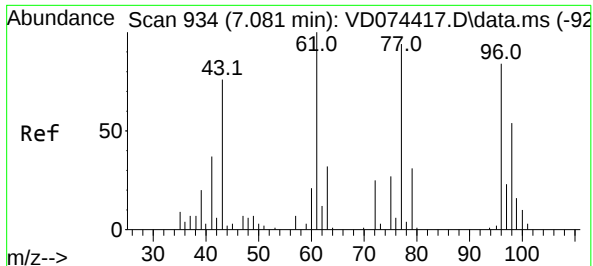
Tgt Ion: 76 Resp: 3021
Ion Ratio Lower Upper
76 100
78 0.0 7.8 11.8#



#20
Methylene Chloride
Concen: 20.037 ug/l
RT: 4.793 min Scan# 545
Delta R.T. -0.006 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

Tgt Ion: 84 Resp: 10355
Ion Ratio Lower Upper
84 100
49 92.9 68.0 102.0
51 31.8 23.2 34.8
86 55.1 48.0 72.0





#25

2-Butanone

Concen: 10.442 ug/l

RT: 7.075 min Scan# 91

Delta R.T. -0.006 min

Lab File: VD074420.D

Acq: 26 Sep 2022 15:06

Instrument :

MSVOA_D

ClientSampleId :

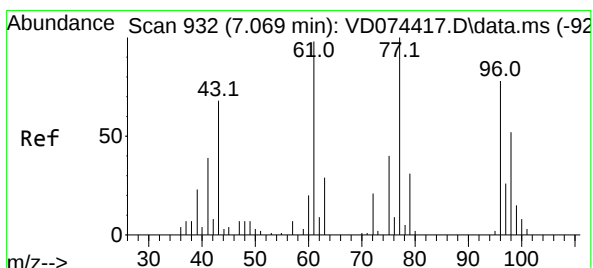
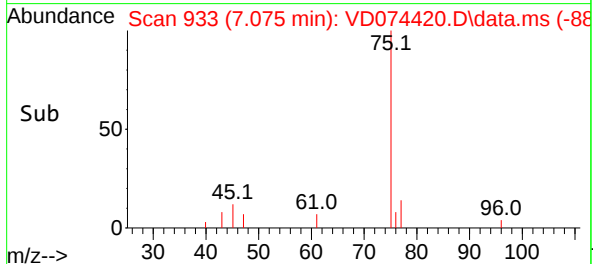
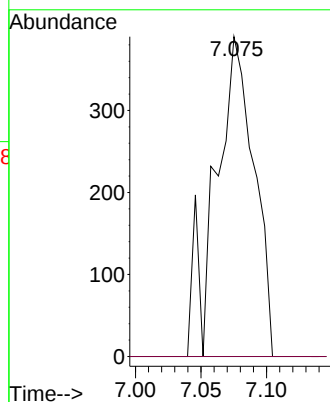
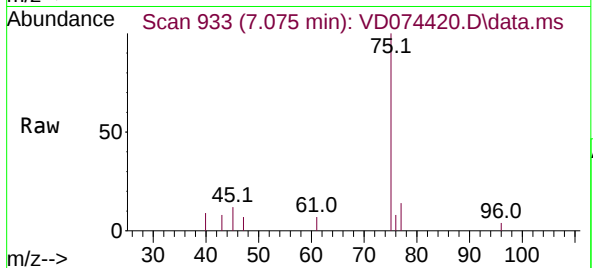
VIBLK

Tgt Ion: 43 Resp: 804

Ion Ratio Lower Upper

43 100

72 0.0 25.8 38.8#



#26

2,2-Dichloropropane

Concen: 2.355 ug/l

RT: 7.075 min Scan# 933

Delta R.T. 0.006 min

Lab File: VD074420.D

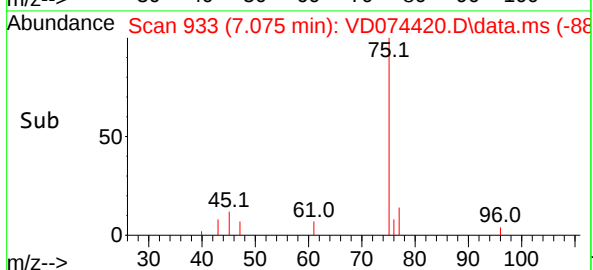
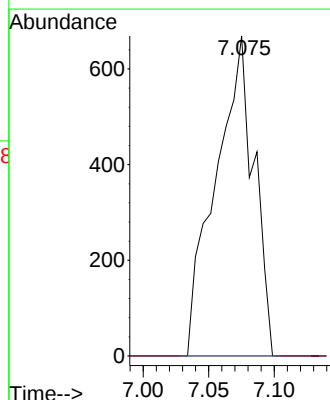
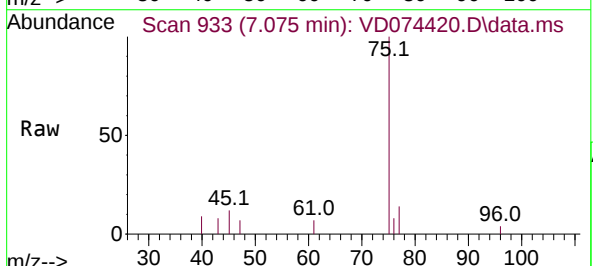
Acq: 26 Sep 2022 15:06

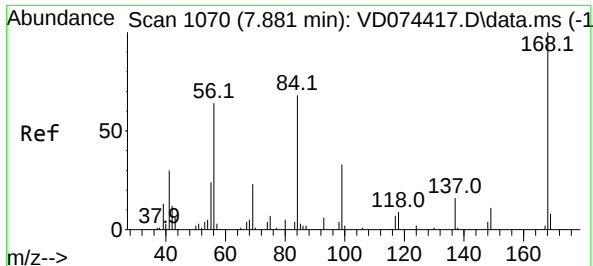
Tgt Ion: 77 Resp: 1361

Ion Ratio Lower Upper

77 100

97 0.0 12.5 37.5#

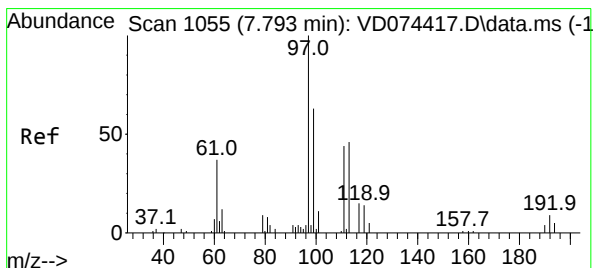
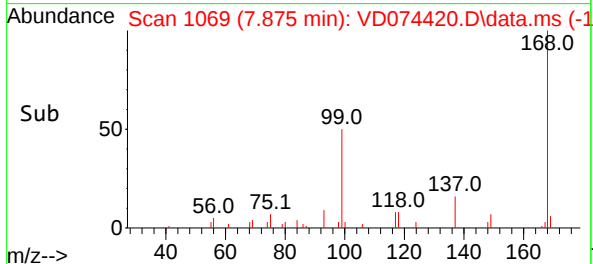
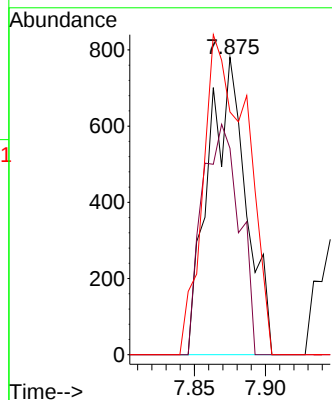
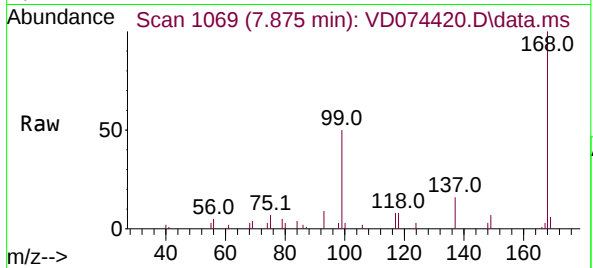




#31
Cyclohexane
Concen: 2.934 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.006 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

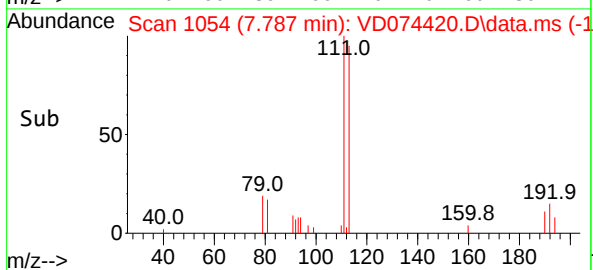
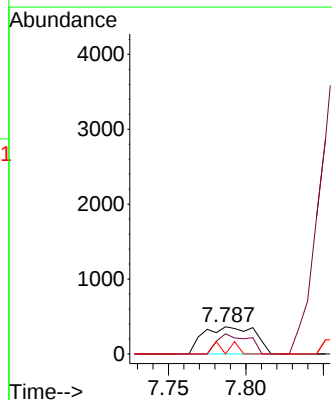
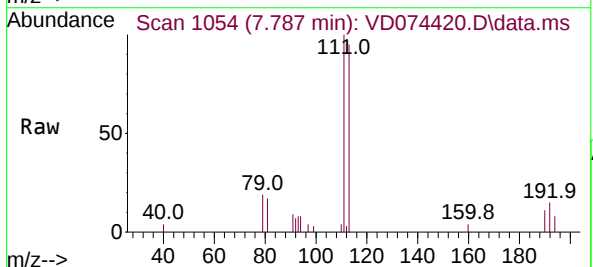
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

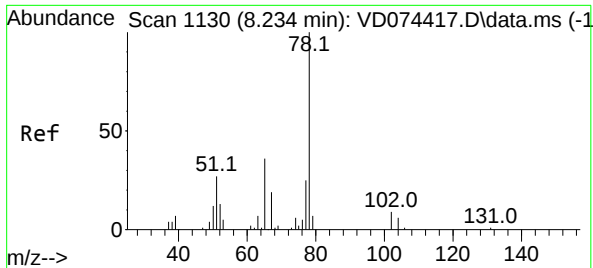
Tgt Ion: 56 Resp: 1443
Ion Ratio Lower Upper
56 100
69 69.4 29.2 43.8#
84 81.6 83.4 125.2#



#32
1,1,1-Trichloroethane
Concen: 1.390 ug/l
RT: 7.787 min Scan# 1054
Delta R.T. -0.006 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

Tgt Ion: 97 Resp: 834
Ion Ratio Lower Upper
97 100
99 0.0 53.3 79.9#
61 13.9 30.2 45.4#





#33

1,2-Dichloroethane-d4

Concen: 82.999 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VD074420.D

Acq: 26 Sep 2022 15:06

Instrument :

MSVOA_D

ClientSampleId :

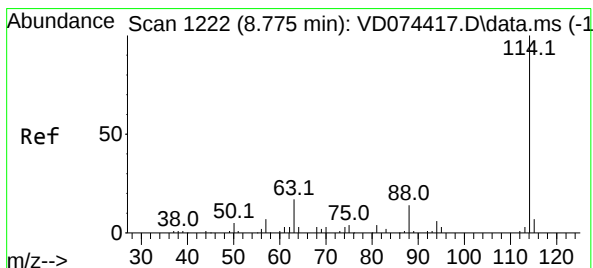
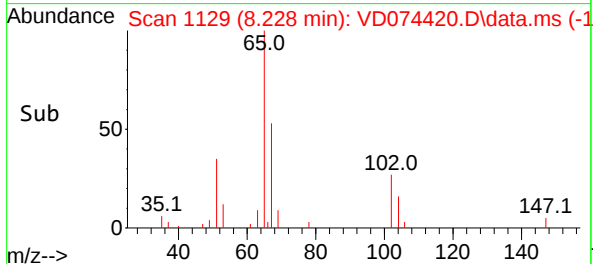
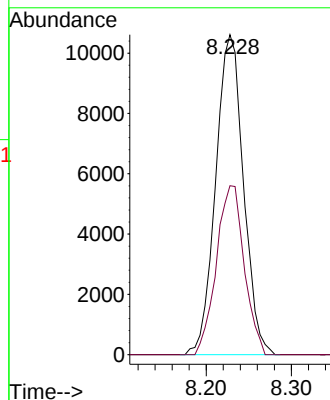
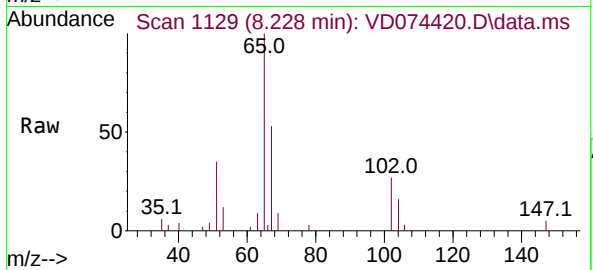
VIBLK

Tgt Ion: 65 Resp: 24041

Ion Ratio Lower Upper

65 100

67 52.9 0.0 110.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.000 min

Lab File: VD074420.D

Acq: 26 Sep 2022 15:06

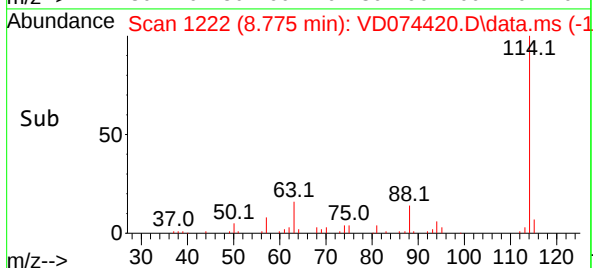
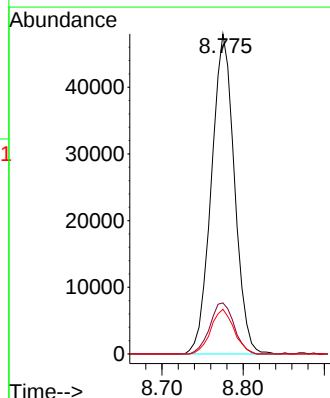
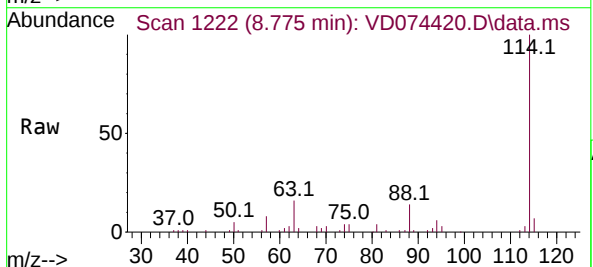
Tgt Ion: 114 Resp: 94531

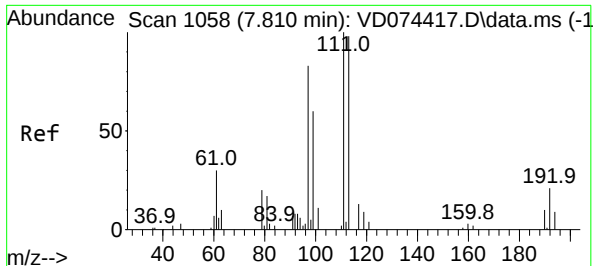
Ion Ratio Lower Upper

114 100

63 16.0 0.0 33.2

88 14.0 0.0 28.2





#35

Dibromofluoromethane

Concen: 55.446 ug/l

RT: 7.804 min Scan# 1058

Delta R.T. -0.006 min

Lab File: VD074420.D

Acq: 26 Sep 2022 15:06

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

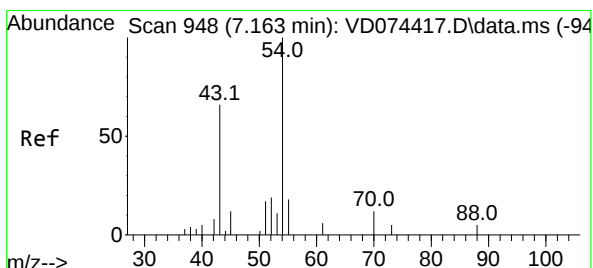
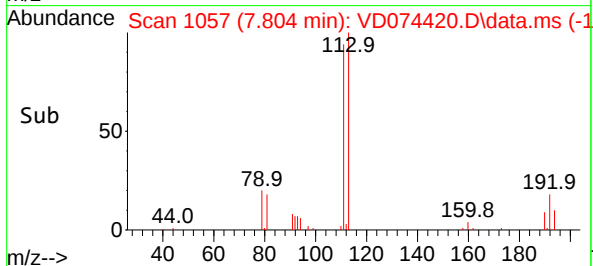
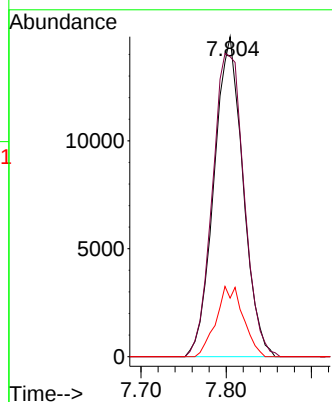
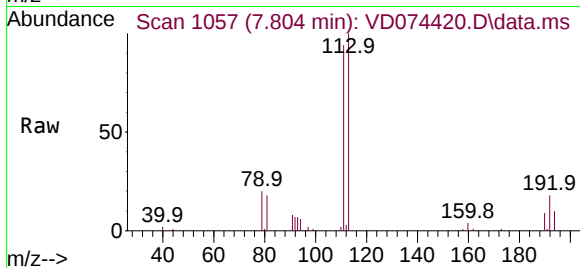
Tgt Ion:113 Resp: 35046

Ion Ratio Lower Upper

113 100

111 103.2 82.3 123.5

192 20.5 16.4 24.6



#37

Ethyl Acetate

Concen: 2.842 ug/l

RT: 7.075 min Scan# 933

Delta R.T. -0.088 min

Lab File: VD074420.D

Acq: 26 Sep 2022 15:06

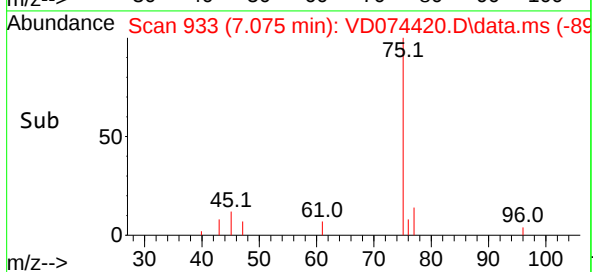
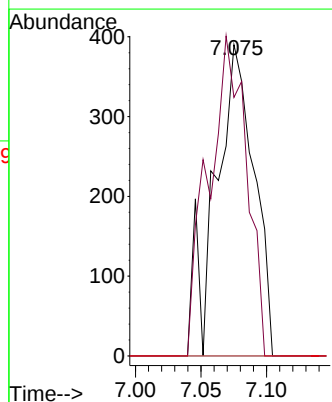
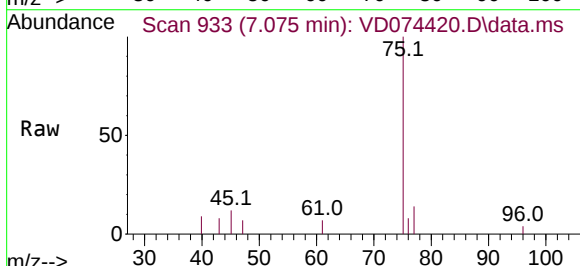
Tgt Ion: 43 Resp: 804

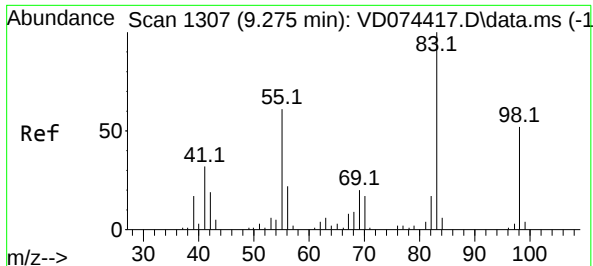
Ion Ratio Lower Upper

43 100

61 100.6 12.2 18.4#

70 0.0 9.6 14.4#





#39

Methylcyclohexane

Concen: 1.262 ug/l

RT: 9.275 min Scan# 1

Delta R.T. 0.000 min

Lab File: VD074420.D

Acq: 26 Sep 2022 15:06

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

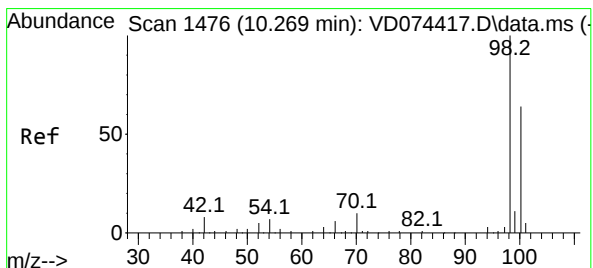
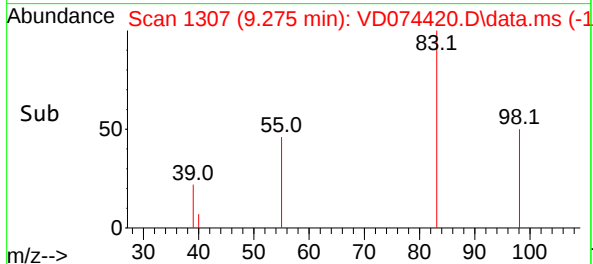
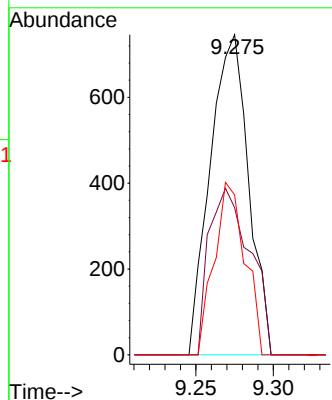
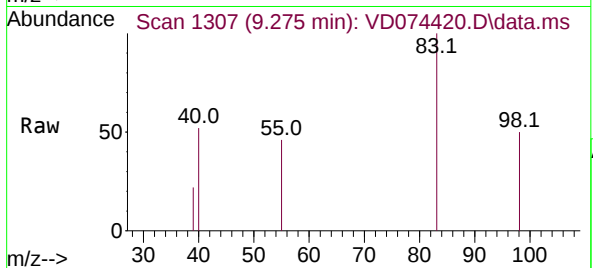
Tgt Ion: 83 Resp: 1284

Ion Ratio Lower Upper

83 100

55 46.0 49.0 73.4#

98 50.0 41.7 62.5



#50

Toluene-d8

Concen: 55.073 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD074420.D

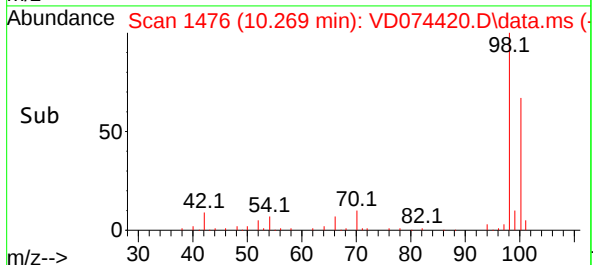
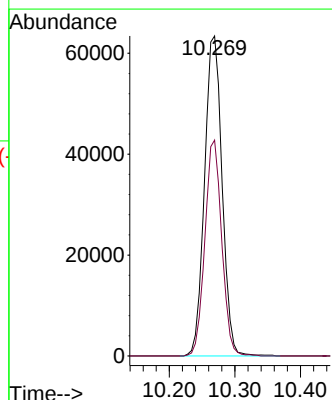
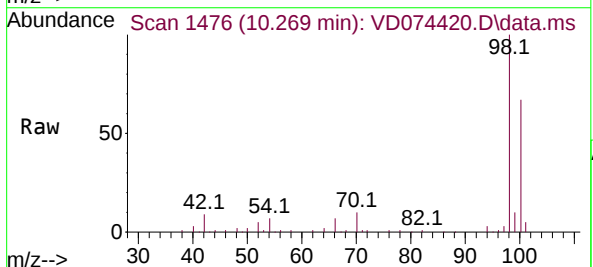
Acq: 26 Sep 2022 15:06

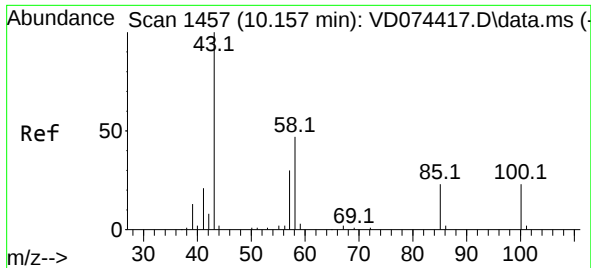
Tgt Ion: 98 Resp: 118394

Ion Ratio Lower Upper

98 100

100 64.6 51.4 77.0

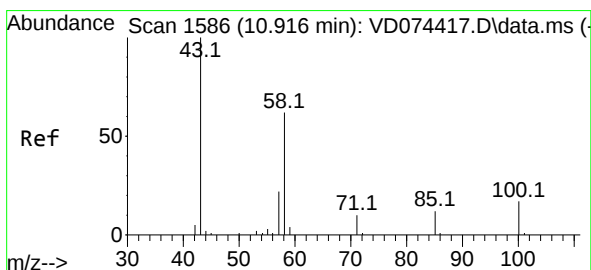
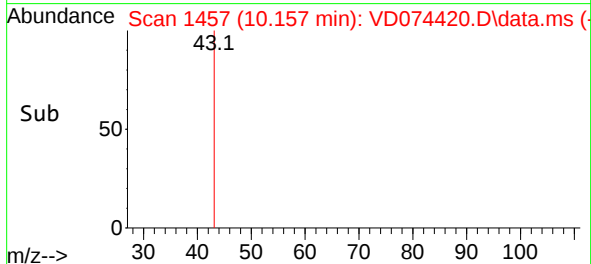
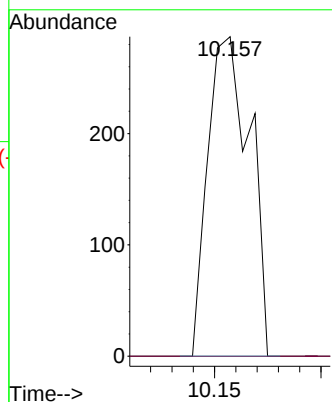
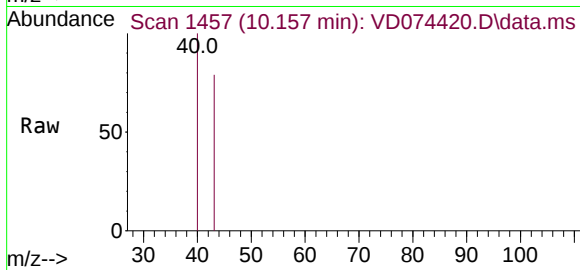




#51
4-Methyl-2-Pentanone
Concen: 1.398 ug/l
RT: 10.157 min Scan# 1457
Delta R.T. 0.000 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

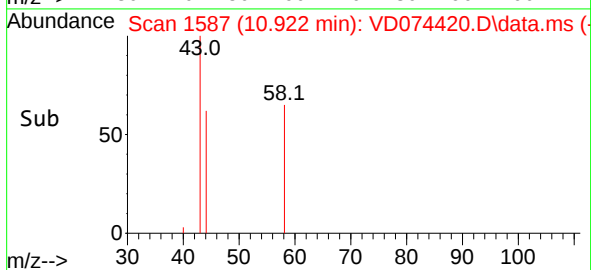
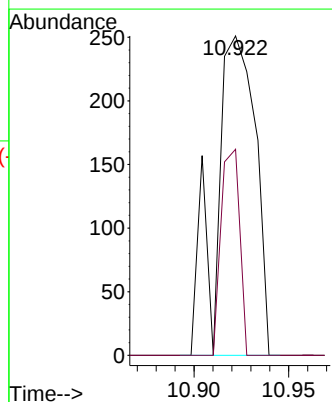
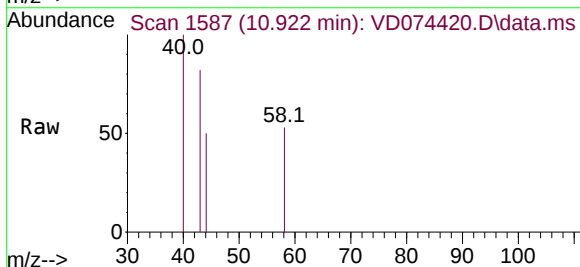
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

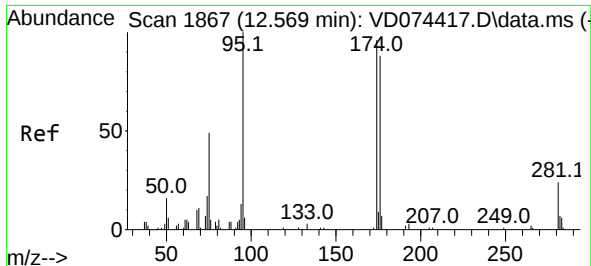
Tgt Ion: 43 Resp: 395
Ion Ratio Lower Upper
43 100
58 0.0 37.8 56.6#



#59
2-Hexanone
Concen: 1.913 ug/l
RT: 10.922 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

Tgt Ion: 43 Resp: 365
Ion Ratio Lower Upper
43 100
58 30.4 32.0 96.2#

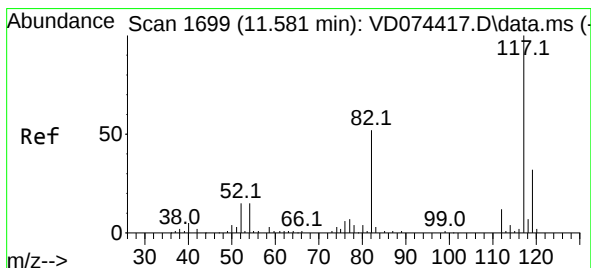
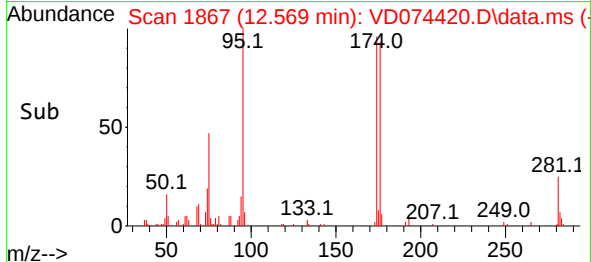
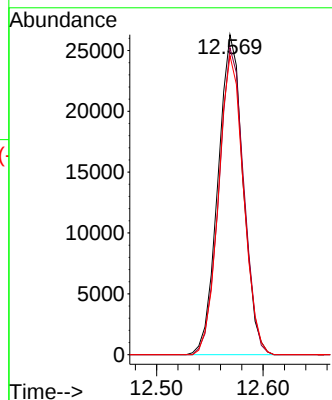
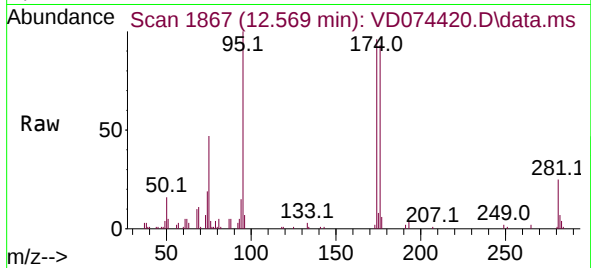




#62
4-Bromofluorobenzene
Concen: 58.250 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

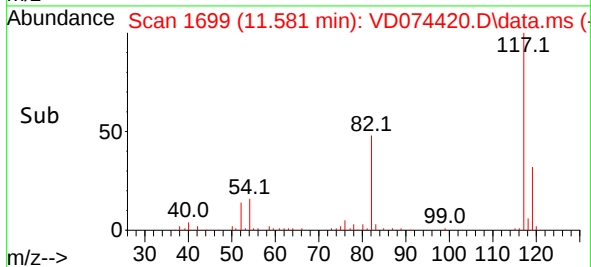
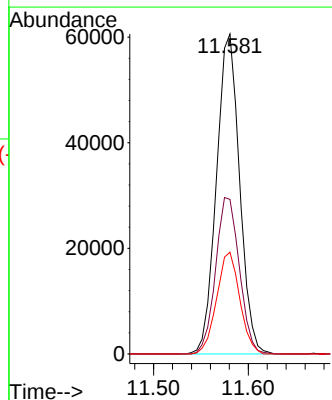
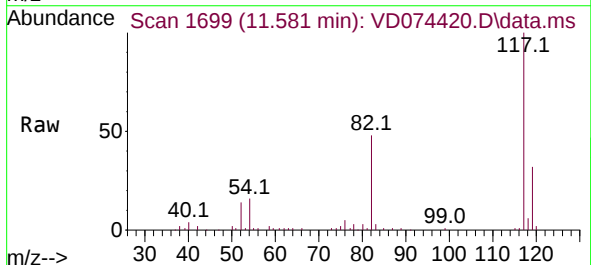
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

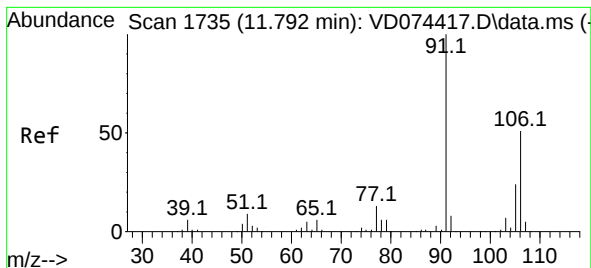
Tgt Ion: 95 Resp: 42984
Ion Ratio Lower Upper
95 100
174 94.9 0.0 197.0
176 92.9 0.0 182.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

Tgt Ion: 117 Resp: 102982
Ion Ratio Lower Upper
117 100
82 48.3 41.6 62.4
119 31.8 25.2 37.8





#68

m/p-Xylenes

Concen: 1.114 ug/l

RT: 11.787 min Scan# 1734

Delta R.T. -0.006 min

Lab File: VD074420.D

Acq: 26 Sep 2022 15:06

Instrument :

MSVOA_D

ClientSampleId :

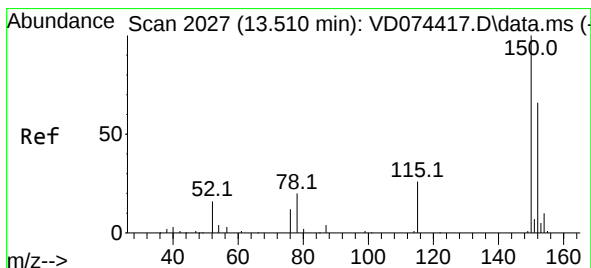
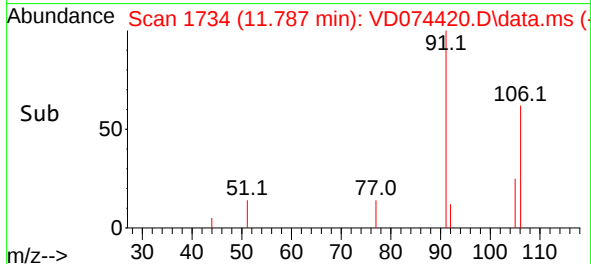
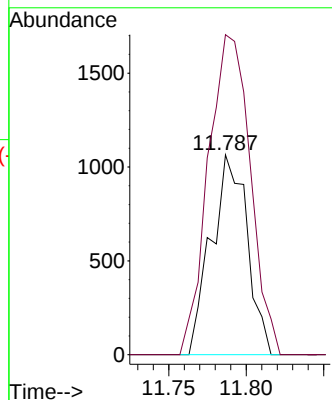
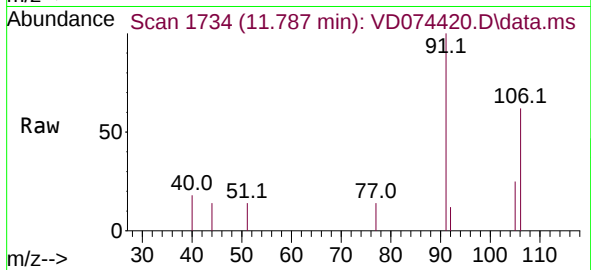
VIBLK

Tgt Ion:106 Resp: 1715

Ion Ratio Lower Upper

106 100

91 187.3 156.2 234.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. 0.006 min

Lab File: VD074420.D

Acq: 26 Sep 2022 15:06

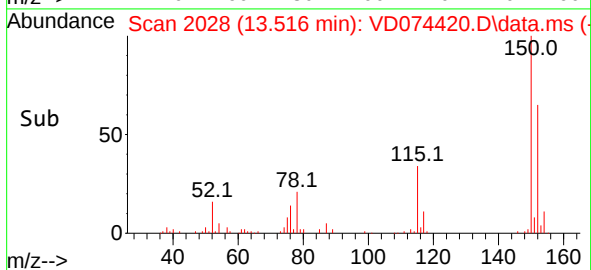
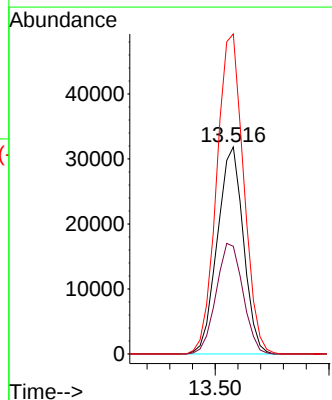
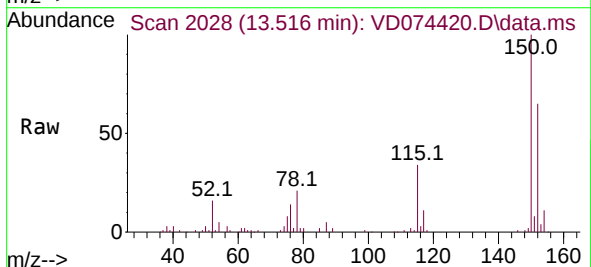
Tgt Ion:152 Resp: 50691

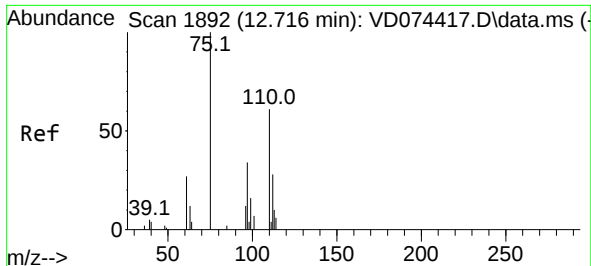
Ion Ratio Lower Upper

152 100

115 55.0 26.8 80.4

150 159.9 0.0 348.2

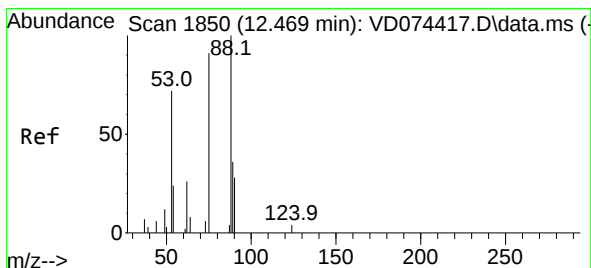
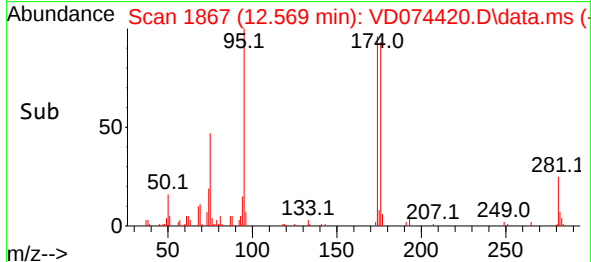
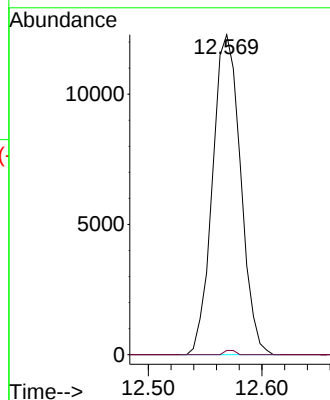
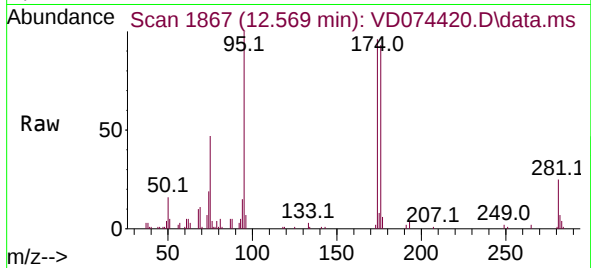




#76
1,2,3-Trichloropropane
Concen: 53.173 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.147 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

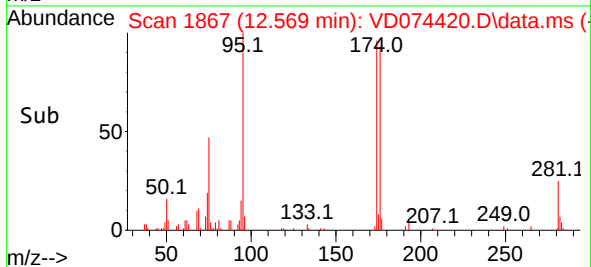
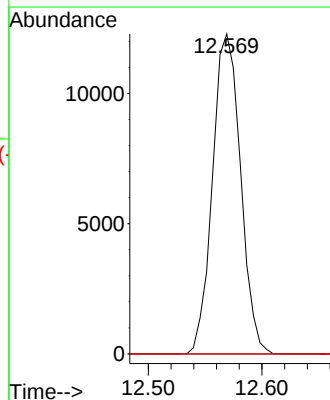
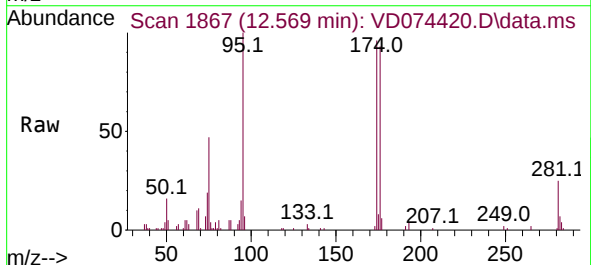
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

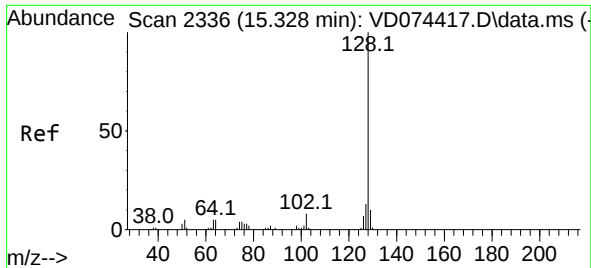
Tgt Ion: 75 Resp: 21082
Ion Ratio Lower Upper
75 100
77 0.5 185.8 557.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 129.755 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.100 min
Lab File: VD074420.D
Acq: 26 Sep 2022 15:06

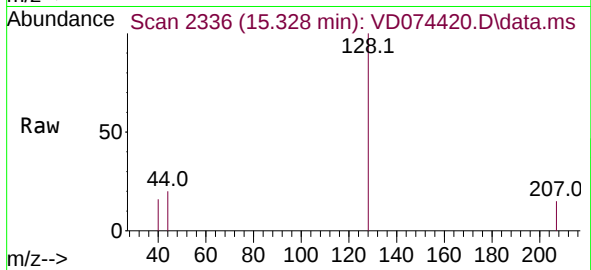
Tgt Ion: 75 Resp: 21082
Ion Ratio Lower Upper
75 100
53 0.0 63.8 95.6#
89 0.0 38.2 57.4#





#95
 Naphthalene
 Concen: 1.024 ug/l
 RT: 15.328 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VD074420.D
 Acq: 26 Sep 2022 15:06

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK



Tgt Ion:	128	Resp:	2014
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	0.0	8.3	12.5#

