

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD102822\
 Data File : VD074676.D
 Acq On : 28 Oct 2022 17:20
 Operator : VA/SY
 Sample : N5267-04
 Misc : 5.02G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP2-1024

Quant Time: Oct 29 02:15:42 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D102722S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 28 00:18:17 2022
 Response via : Initial Calibration

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

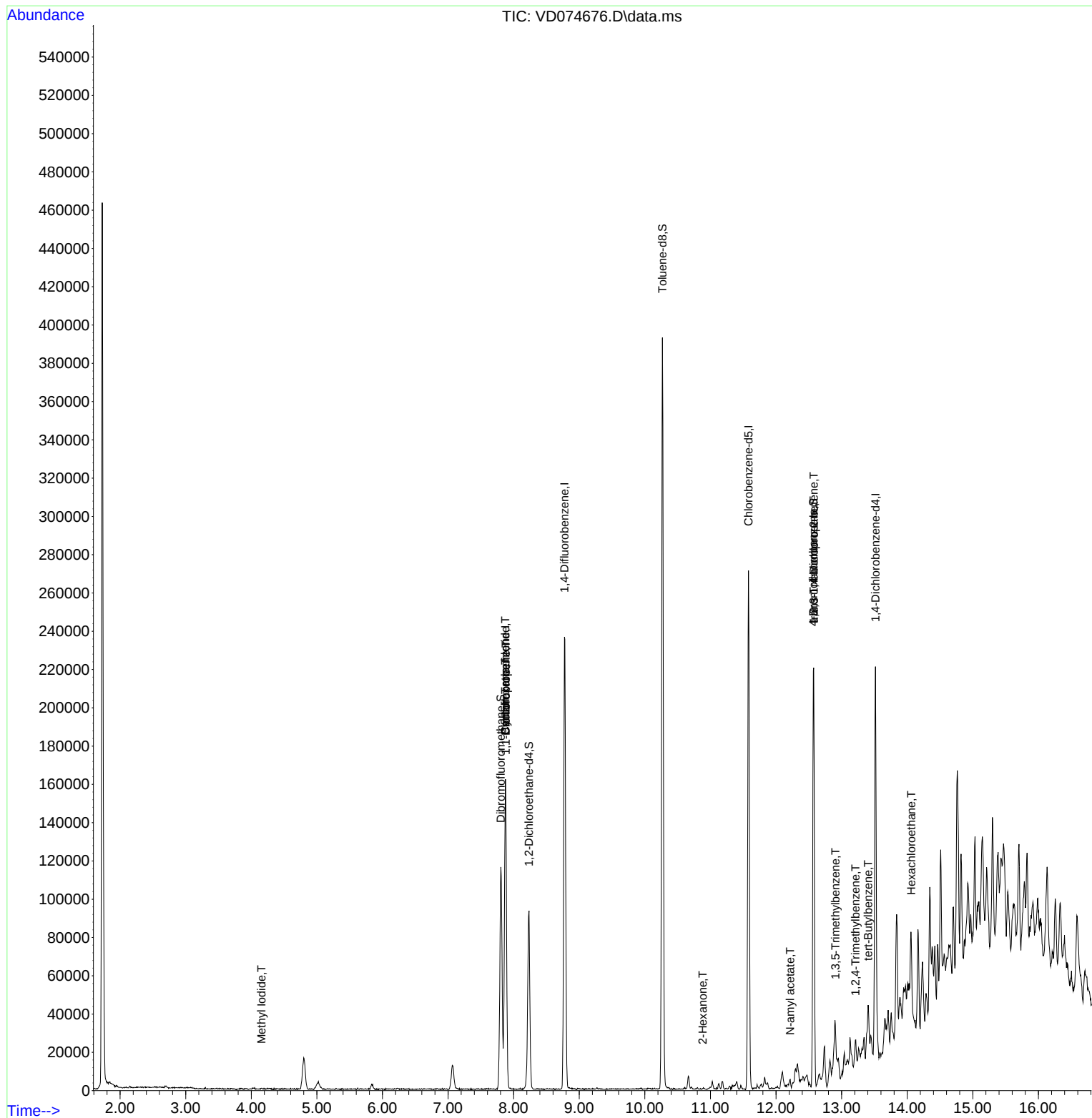
Internal Standards						
1) Pentafluorobenzene	7.875	168	132026	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	232480	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.580	117	167920	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	58039	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	70280	63.070	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 126.140%	
35) Dibromofluoromethane	7.804	113	84970	59.856	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 119.720%	
50) Toluene-d8	10.269	98	284317	52.080	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 104.160%	
62) 4-Bromofluorobenzene	12.569	95	69135	46.111	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 92.220%	
Target Compounds						
						Qvalue
3) Chloromethane	2.146	50	560	Below Cal		89
5) Bromomethane	2.699	94	609	Below Cal		85
10) Methyl Iodide	4.157	142	242	5.578 ug/l	#	75
11) Tert butyl alcohol	5.004	59	1645	Below Cal	#	84
16) Acetone	4.034	43	566	Below Cal	#	37
20) Methylene Chloride	4.798	84	14388	Below Cal		95
25) 2-Butanone	7.069	43	620	Below Cal	#	42
31) Cyclohexane	7.875	56	2302	1.127 ug/l	#	3
36) 1,1-Dichloropropene	7.881	75	8950	4.425 ug/l	#	47
38) Carbon Tetrachloride	7.875	117	12498	6.650 ug/l	#	20
59) 2-Hexanone	10.880	43	498	1.223 ug/l	#	18
74) N-amyl acetate	12.216	43	1441	2.210 ug/l	#	57
76) 1,2,3-Trichloropropane	12.574	75	32955	72.600 ug/l	#	1
80) 1,3,5-Trimethylbenzene	12.904	105	4160	1.210 ug/l		97
81) trans-1,4-Dichloro-2-b...	12.574	75	32955	192.141 ug/l	#	17
83) tert-Butylbenzene	13.404	119	3678	1.206 ug/l		78
84) 1,2,4-Trimethylbenzene	13.210	105	7196	2.121 ug/l		95
90) Hexachloroethane	14.063	117	2241	3.432 ug/l	#	11

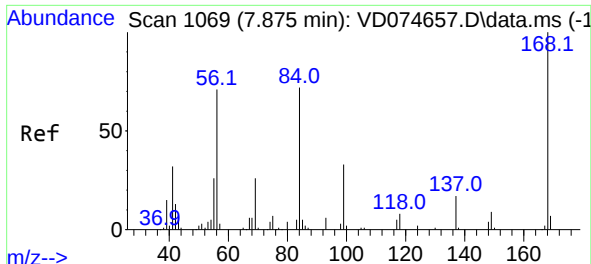
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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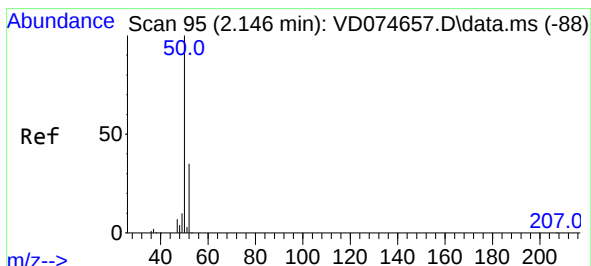
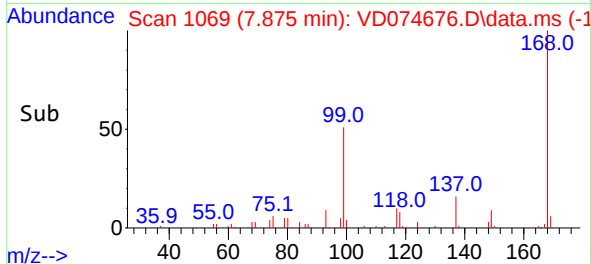
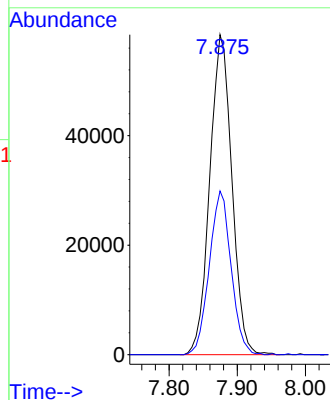
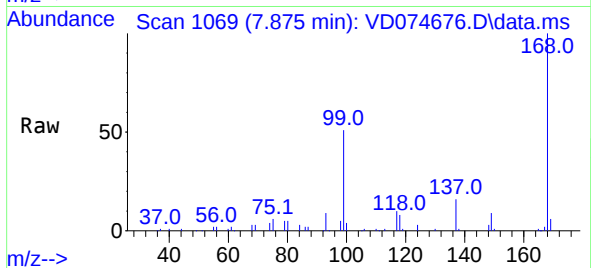




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.000 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

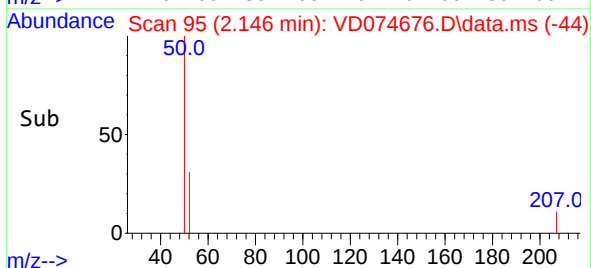
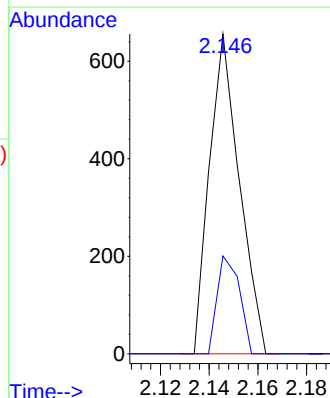
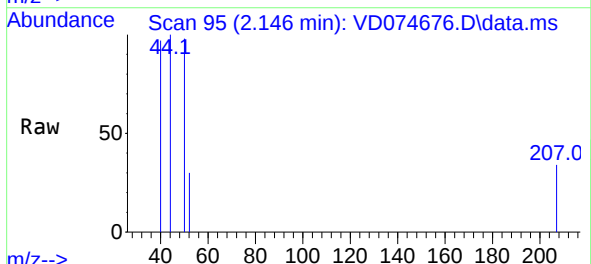
Instrument :
MSVOA_D
ClientSampleId :
TP2-1024

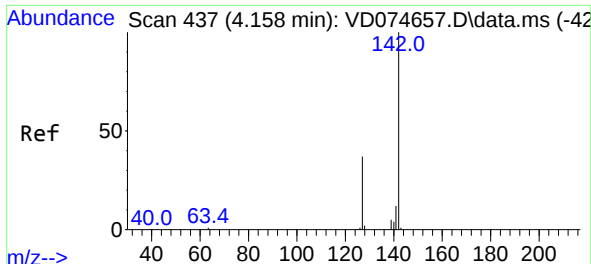
Tgt Ion:168 Resp: 132026
Ion Ratio Lower Upper
168 100
99 51.1 40.9 61.3



#3
Chloromethane
Concen: Below Cal
RT: 2.146 min Scan# 95
Delta R.T. -0.000 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

Tgt Ion: 50 Resp: 560
Ion Ratio Lower Upper
50 100
52 30.6 30.0 45.0

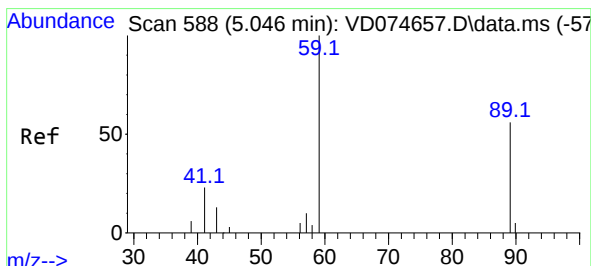
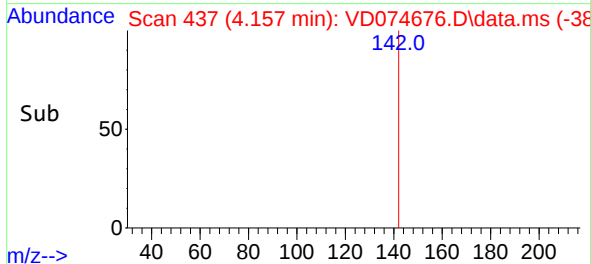
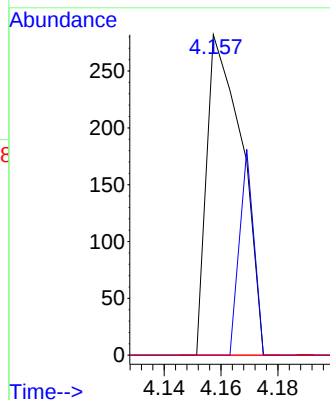
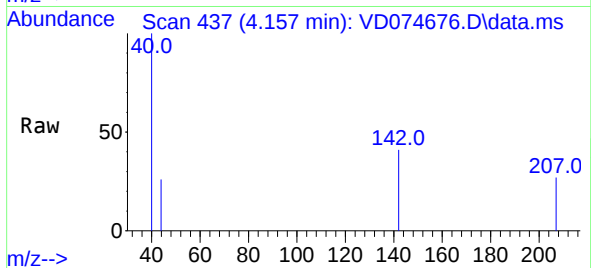




#10
Methyl Iodide
Concen: 5.578 ug/l
RT: 4.157 min Scan# 41
Delta R.T. -0.001 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

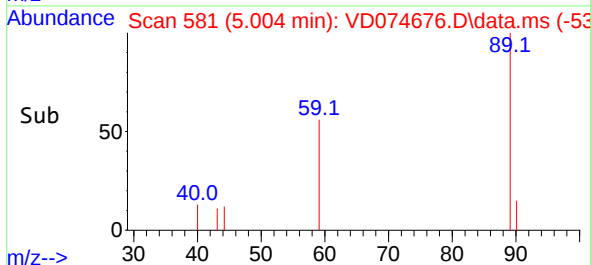
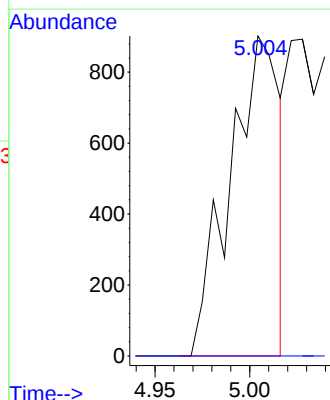
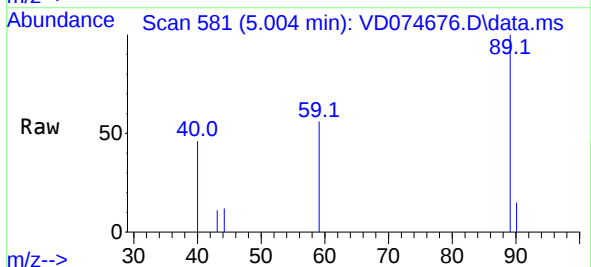
Instrument :
MSVOA_D
ClientSampleId :
TP2-1024

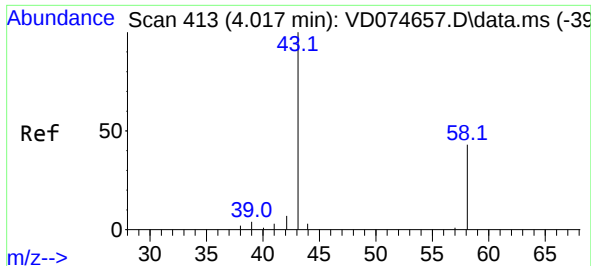
Tgt Ion:142 Resp: 242
Ion Ratio Lower Upper
142 100
127 26.4 31.9 47.9#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.004 min Scan# 581
Delta R.T. -0.042 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

Tgt Ion: 59 Resp: 1645
Ion Ratio Lower Upper
59 100
57 0.0 4.4 6.6#





#16

Acetone

Concen: Below Cal

RT: 4.034 min Scan# 41

Delta R.T. 0.017 min

Lab File: VD074676.D

Acq: 28 Oct 2022 17:20

Instrument :

MSVOA_D

ClientSampleId :

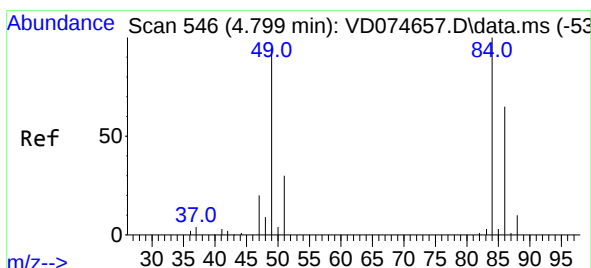
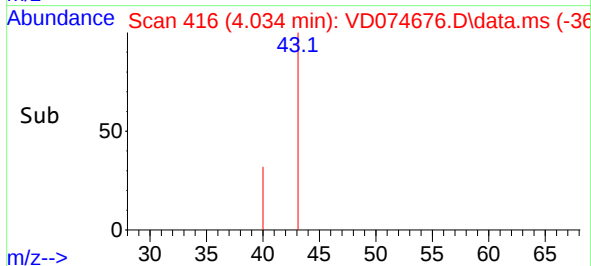
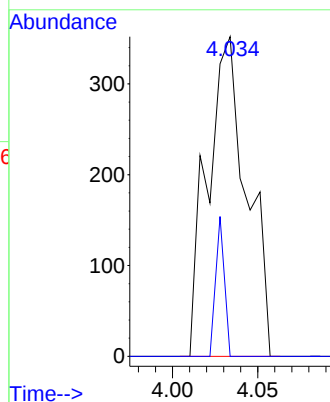
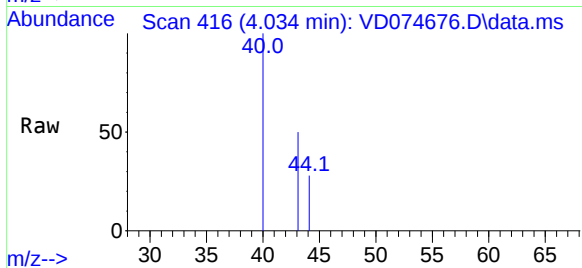
TP2-1024

Tgt Ion: 43 Resp: 566

Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.2#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.798 min Scan# 546

Delta R.T. -0.001 min

Lab File: VD074676.D

Acq: 28 Oct 2022 17:20

Tgt Ion: 84 Resp: 14388

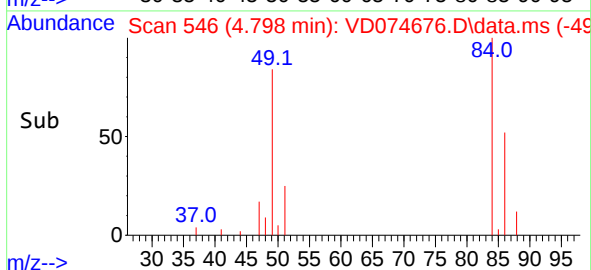
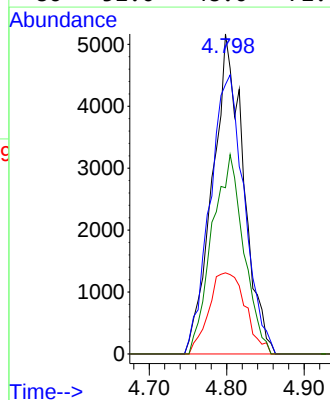
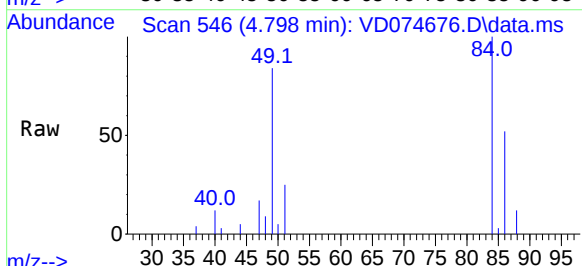
Ion Ratio Lower Upper

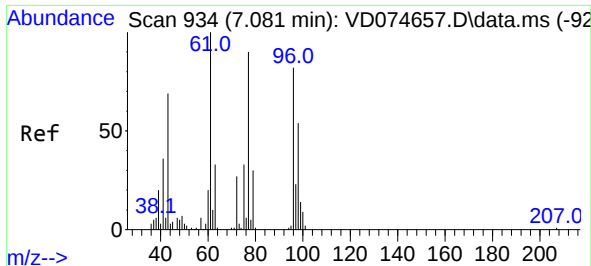
84 100

49 84.2 68.0 102.0

51 25.3 23.2 34.8

86 52.0 48.0 72.0





#25

2-Butanone

Concen: Below Cal

RT: 7.069 min Scan# 91

Delta R.T. -0.012 min

Lab File: VD074676.D

Acq: 28 Oct 2022 17:20

Instrument :

MSVOA_D

ClientSampleId :

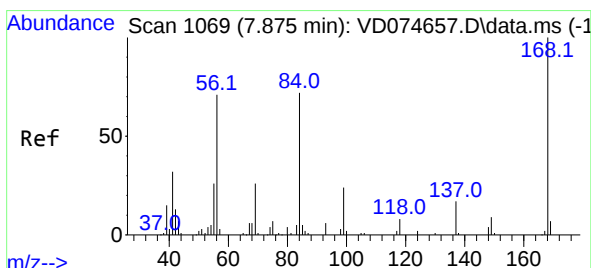
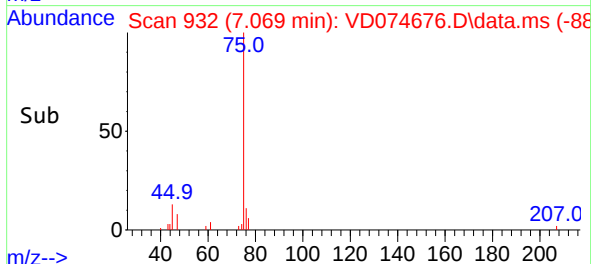
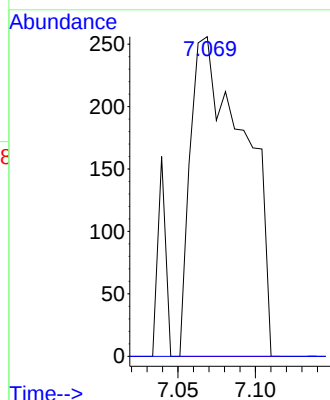
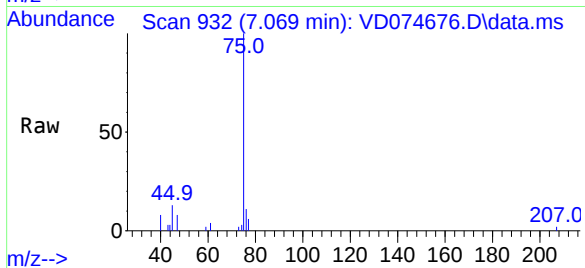
TP2-1024

Tgt Ion: 43 Resp: 620

Ion Ratio Lower Upper

43 100

72 0.0 25.8 38.8#



#31

Cyclohexane

Concen: 1.127 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.000 min

Lab File: VD074676.D

Acq: 28 Oct 2022 17:20

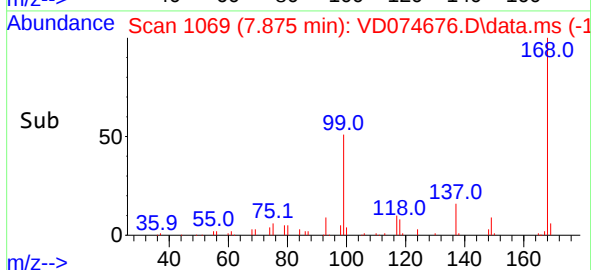
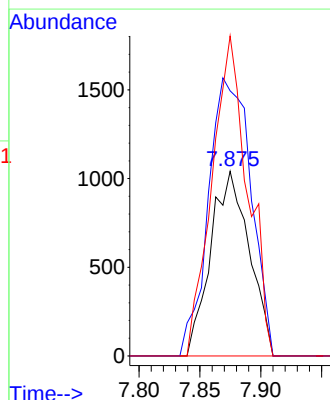
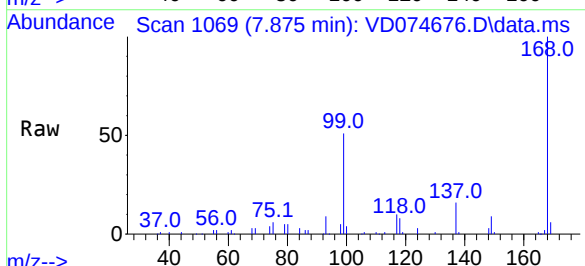
Tgt Ion: 56 Resp: 2302

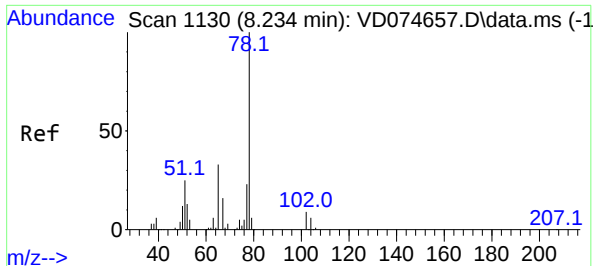
Ion Ratio Lower Upper

56 100

69 143.6 29.2 43.8#

84 173.3 83.4 125.2#





#33

1,2-Dichloroethane-d4

Concen: 63.070 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VD074676.D

Acq: 28 Oct 2022 17:20

Instrument :

MSVOA_D

ClientSampleId :

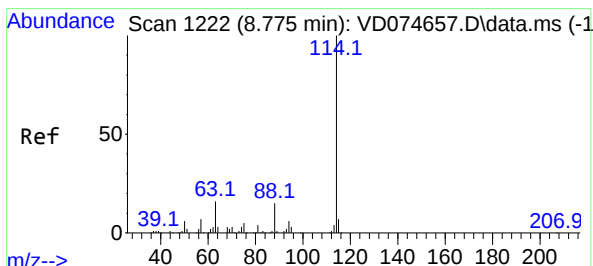
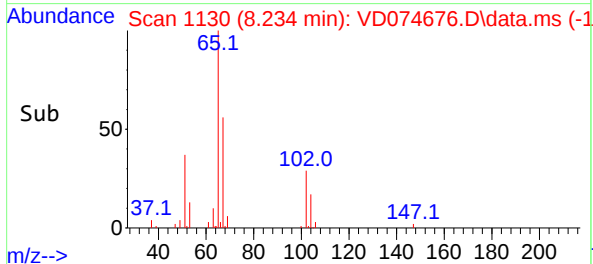
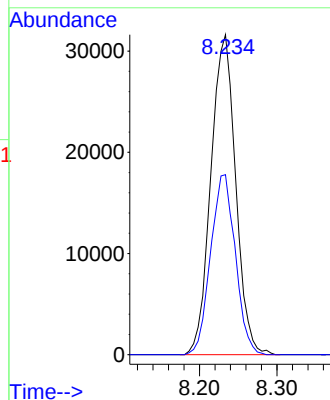
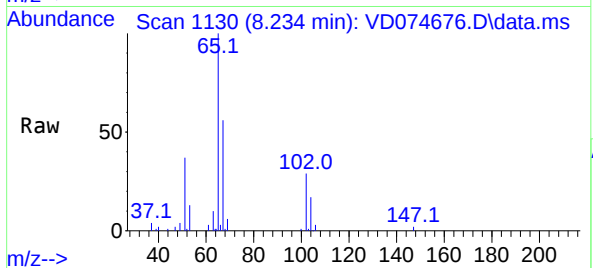
TP2-1024

Tgt Ion: 65 Resp: 70280

Ion Ratio Lower Upper

65 100

67 56.2 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: VD074676.D

Acq: 28 Oct 2022 17:20

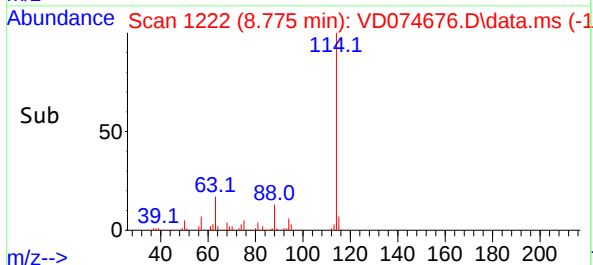
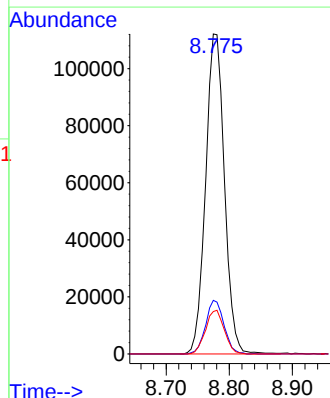
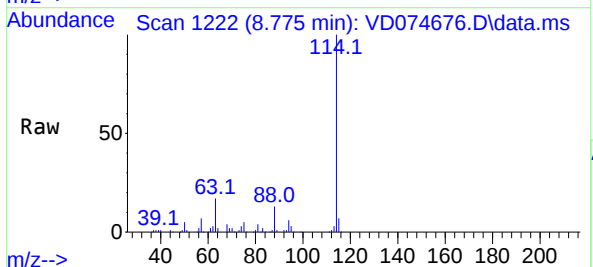
Tgt Ion: 114 Resp: 232480

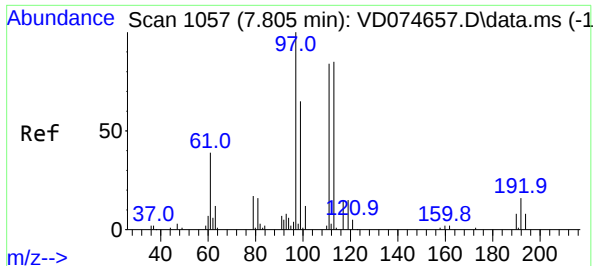
Ion Ratio Lower Upper

114 100

63 16.7 0.0 33.2

88 13.2 0.0 28.2





#35

Dibromofluoromethane

Concen: 59.856 ug/l

RT: 7.804 min Scan# 1070

Delta R.T. -0.001 min

Lab File: VD074676.D

Acq: 28 Oct 2022 17:20

Instrument :

MSVOA_D

ClientSampleId :

TP2-1024

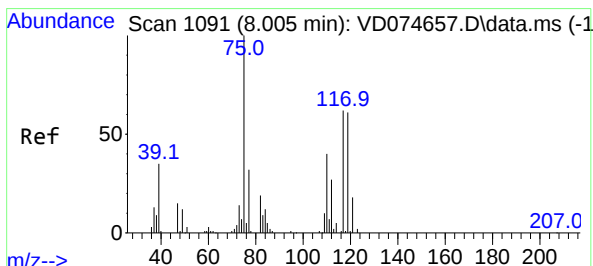
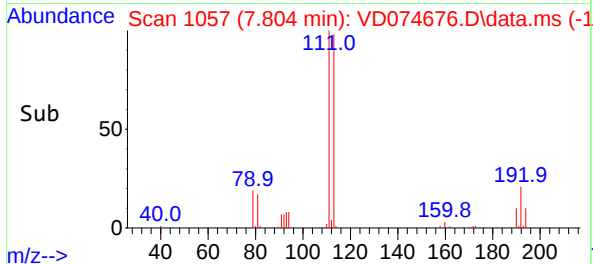
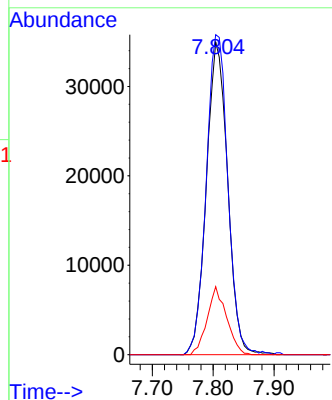
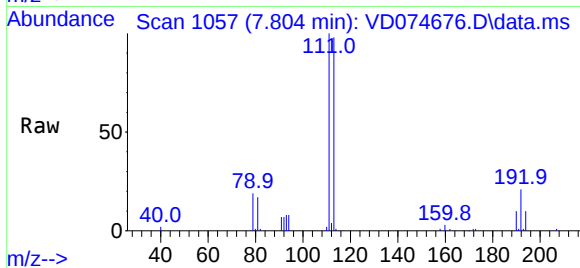
Tgt Ion:113 Resp: 84970

Ion Ratio Lower Upper

113 100

111 104.0 82.3 123.5

192 19.9 16.4 24.6



#36

1,1-Dichloropropene

Concen: 4.425 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.124 min

Lab File: VD074676.D

Acq: 28 Oct 2022 17:20

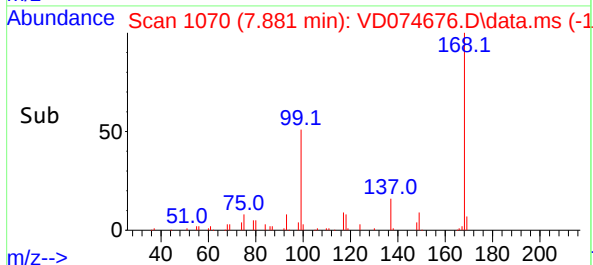
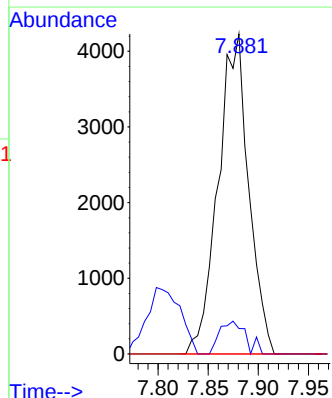
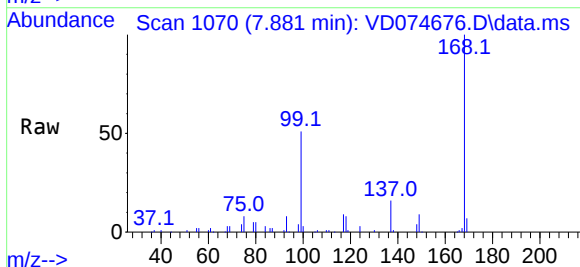
Tgt Ion: 75 Resp: 8950

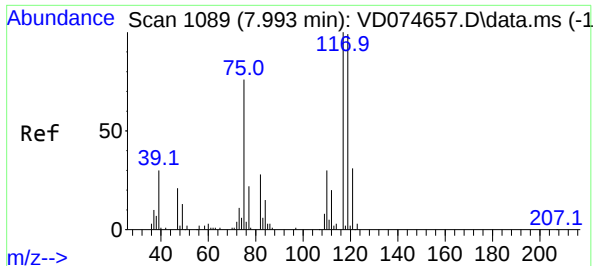
Ion Ratio Lower Upper

75 100

110 8.8 19.7 59.0#

77 0.0 25.4 38.2#

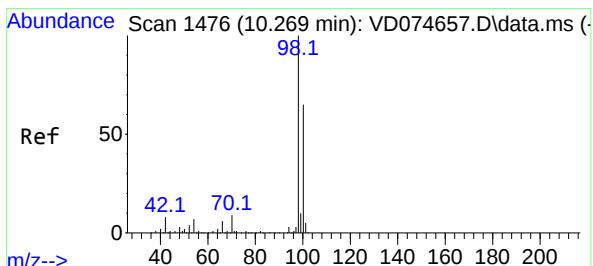
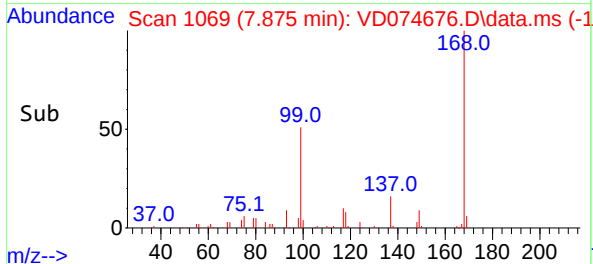
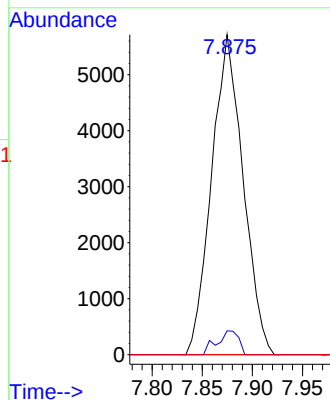
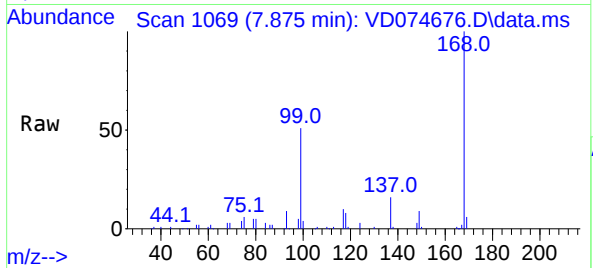




#38
Carbon Tetrachloride
Concen: 6.650 ug/l
RT: 7.875 min Scan# 1089
Delta R.T. -0.118 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

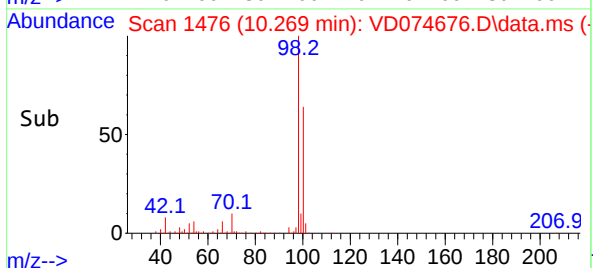
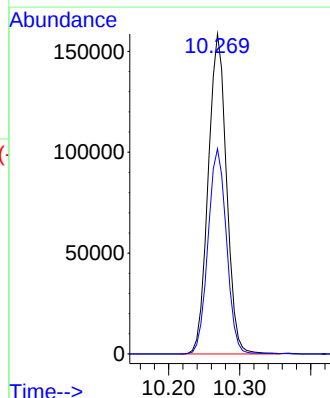
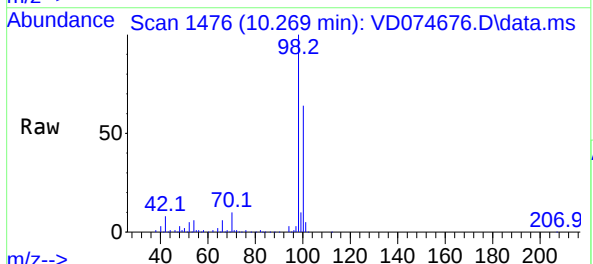
Instrument :
MSVOA_D
ClientSampleId :
TP2-1024

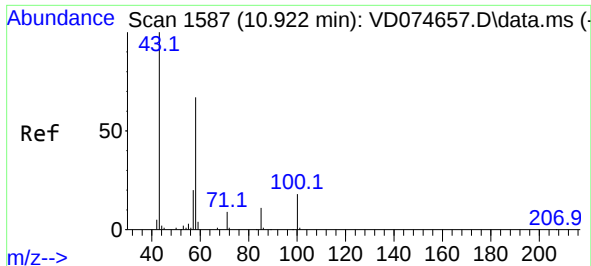
Tgt Ion:117 Resp: 12498
Ion Ratio Lower Upper
117 100
119 7.5 73.1 109.7#
121 0.0 25.0 37.6#



#50
Toluene-d8
Concen: 52.080 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

Tgt Ion: 98 Resp: 284317
Ion Ratio Lower Upper
98 100
100 64.6 51.4 77.0

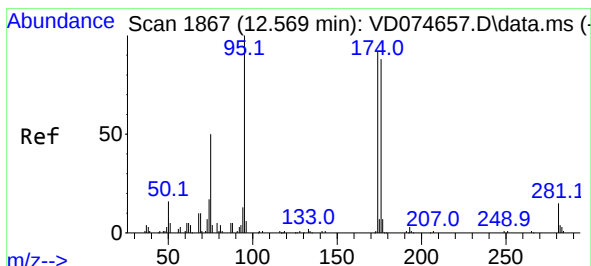
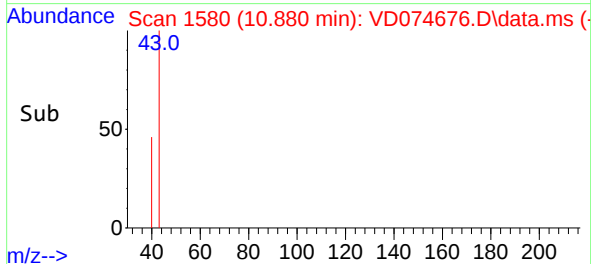
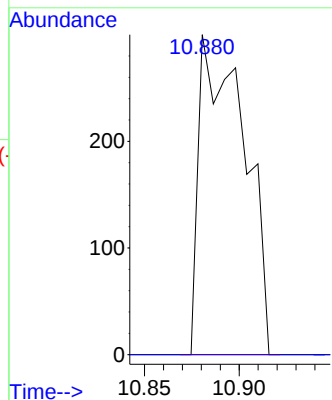
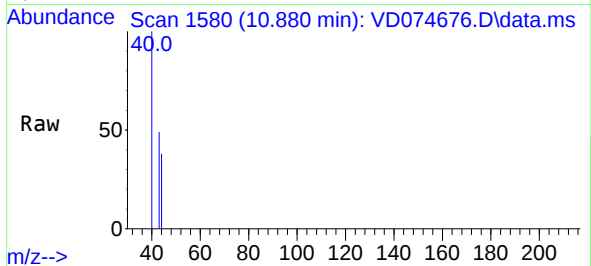




#59
2-Hexanone
Concen: 1.223 ug/l
RT: 10.880 min Scan# 1580
Delta R.T. -0.042 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

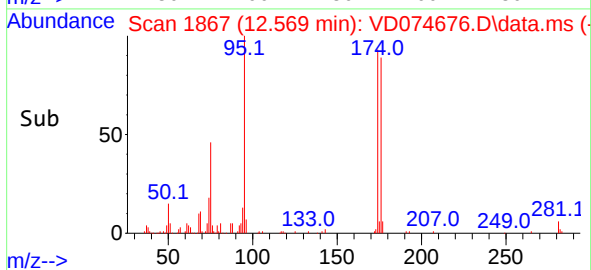
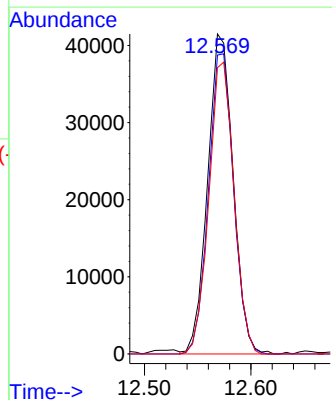
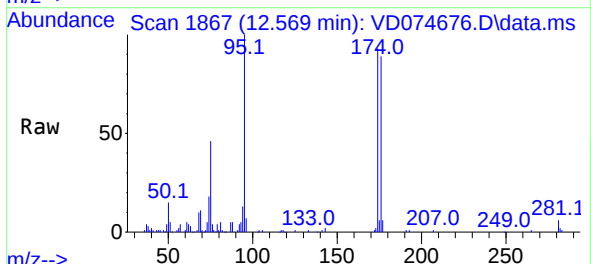
Instrument :
MSVOA_D
ClientSampleId :
TP2-1024

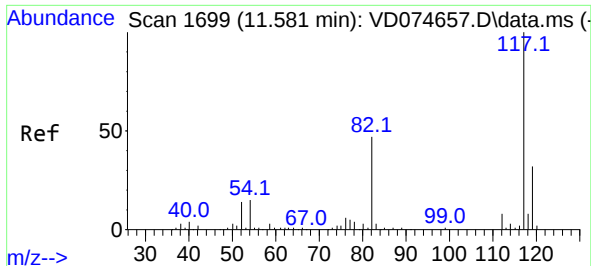
Tgt Ion: 43 Resp: 498
Ion Ratio Lower Upper
43 100
58 0.0 32.0 96.2#



#62
4-Bromofluorobenzene
Concen: 46.111 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

Tgt Ion: 95 Resp: 69135
Ion Ratio Lower Upper
95 100
174 92.3 0.0 197.0
176 89.7 0.0 182.6

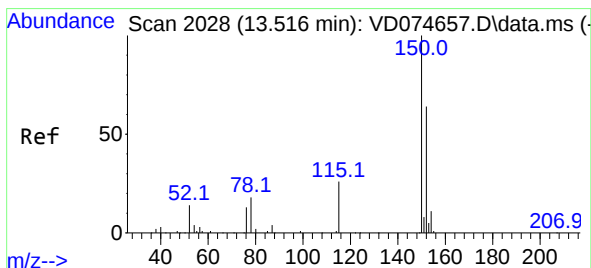
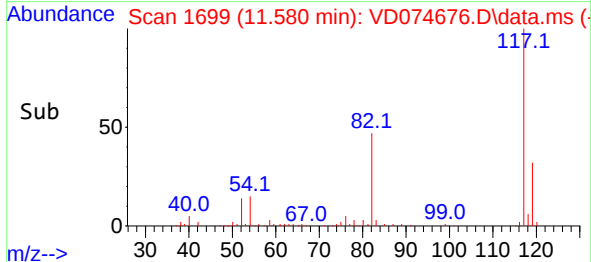
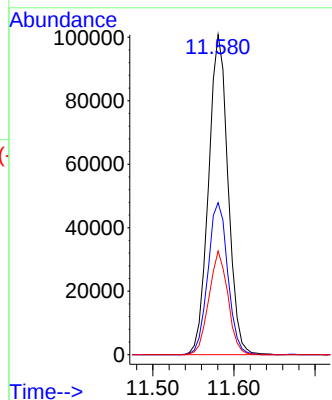
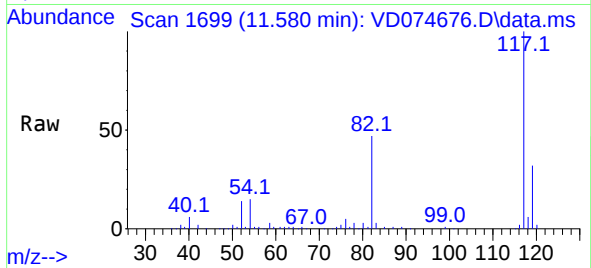




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.580 min Scan# 1
Delta R.T. -0.001 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

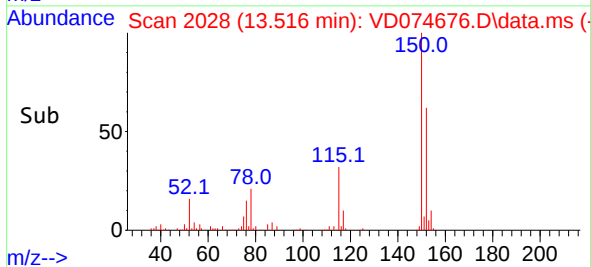
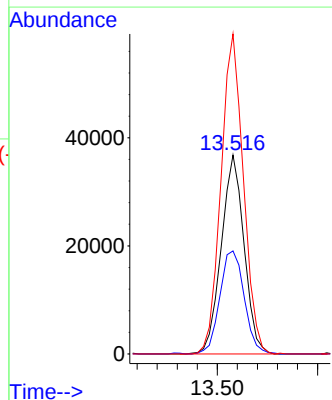
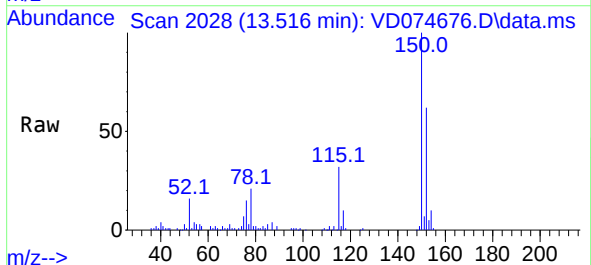
Instrument :
MSVOA_D
ClientSampleId :
TP2-1024

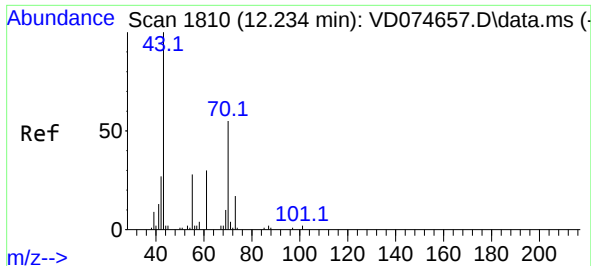
Tgt Ion:117 Resp: 167920
Ion Ratio Lower Upper
117 100
82 47.5 41.6 62.4
119 32.4 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

Tgt Ion:152 Resp: 58039
Ion Ratio Lower Upper
152 100
115 55.5 26.8 80.4
150 158.1 0.0 348.2



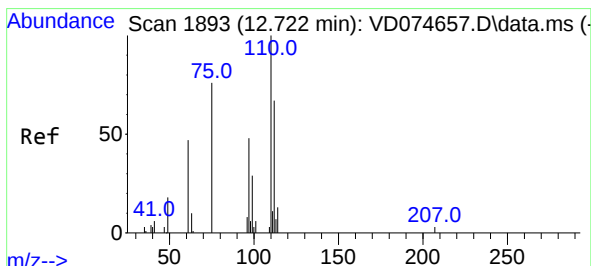
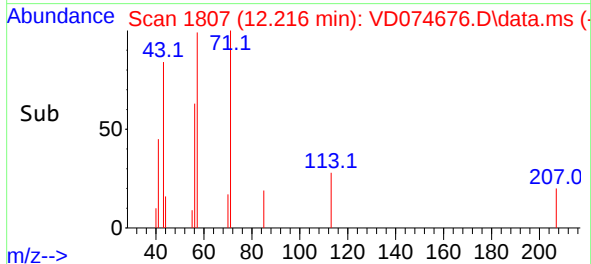
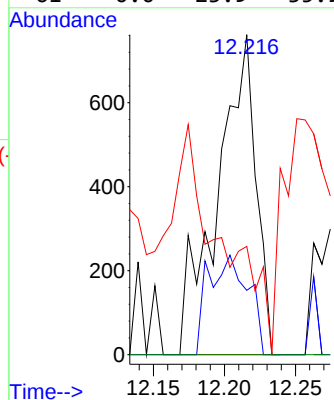
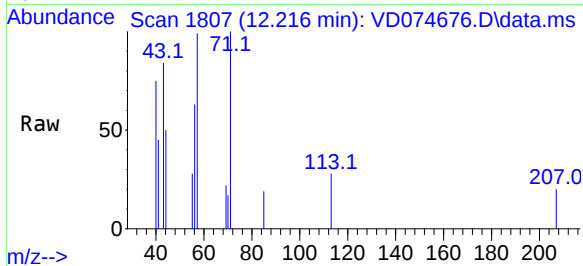


#74
N-amy1 acetate
Concen: 2.210 ug/l
RT: 12.216 min Scan# 1807
Delta R.T. -0.018 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

Instrument :
MSVOA_D
ClientSampleId :
TP2-1024

Tgt Ion: 43 Resp: 1441

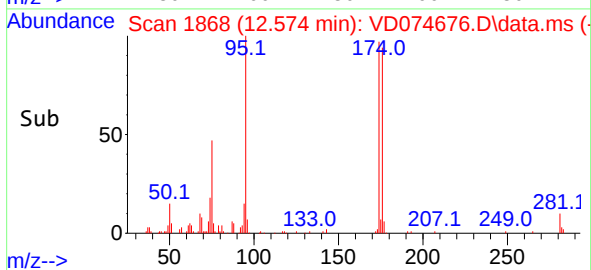
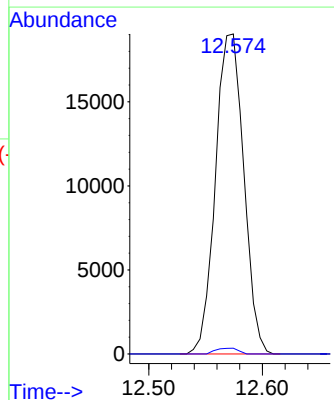
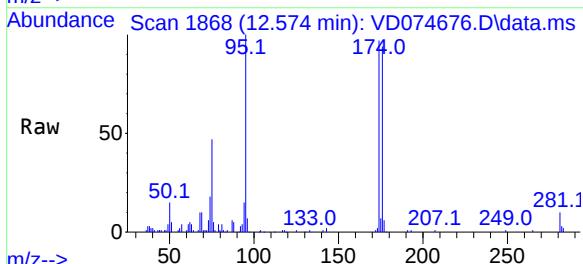
Ion	Ratio	Lower	Upper
43	100		
70	32.0	43.8	65.6#
55	0.0	22.0	33.0#
61	0.0	23.9	35.9#

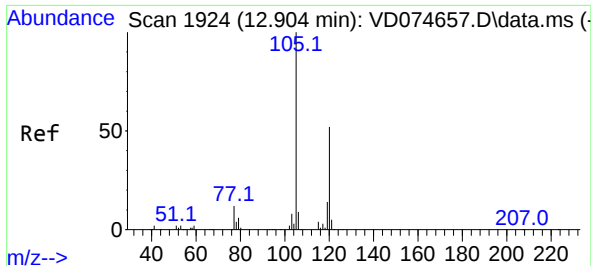


#76
1,2,3-Trichloropropane
Concen: 72.600 ug/l
RT: 12.574 min Scan# 1868
Delta R.T. -0.148 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

Tgt Ion: 75 Resp: 32955

Ion	Ratio	Lower	Upper
75	100		
77	1.4	185.8	557.5#

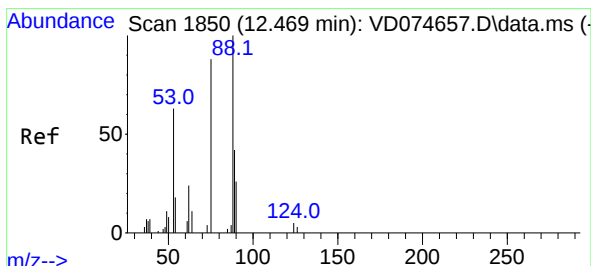
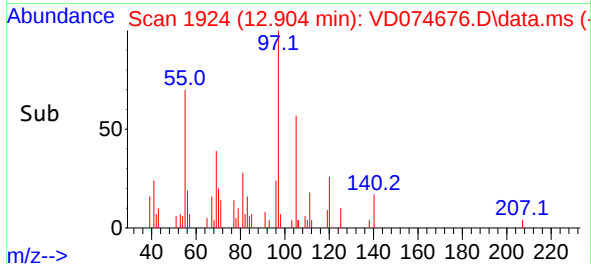
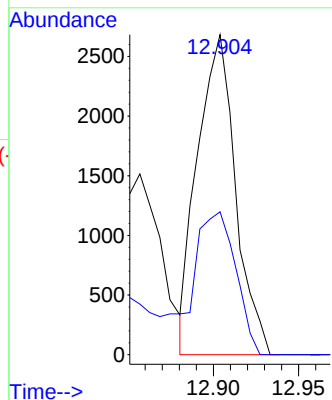
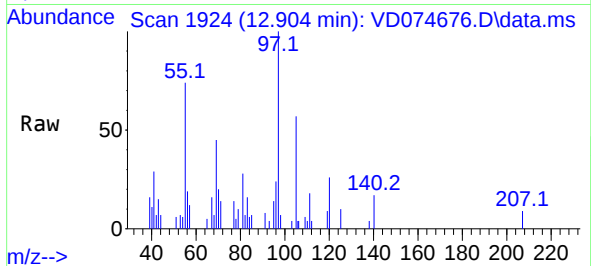




#80
1,3,5-Trimethylbenzene
Concen: 1.210 ug/l
RT: 12.904 min Scan# 1924
Delta R.T. -0.000 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

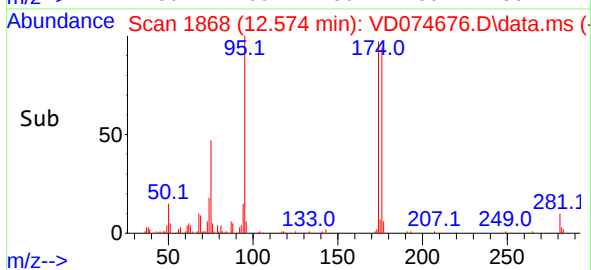
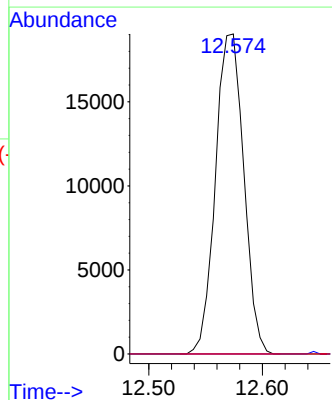
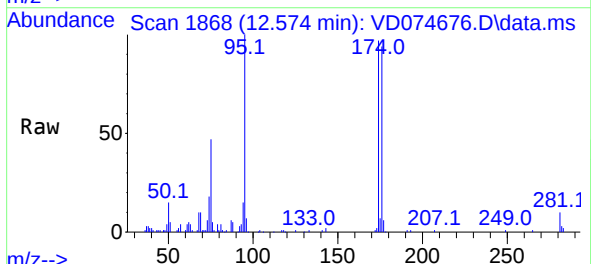
Instrument :
MSVOA_D
ClientSampleId :
TP2-1024

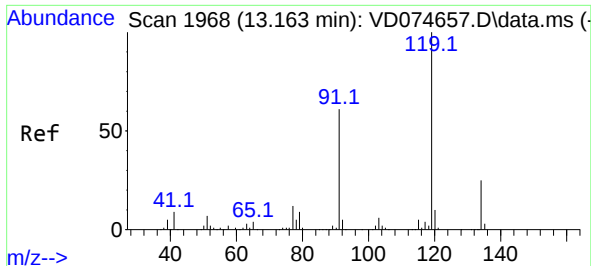
Tgt Ion:105 Resp: 4160
Ion Ratio Lower Upper
105 100
120 49.0 25.7 77.0



#81
trans-1,4-Dichloro-2-butene
Concen: 192.141 ug/l
RT: 12.574 min Scan# 1868
Delta R.T. 0.105 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

Tgt Ion: 75 Resp: 32955
Ion Ratio Lower Upper
75 100
53 0.0 63.8 95.6#
89 0.0 38.2 57.4#

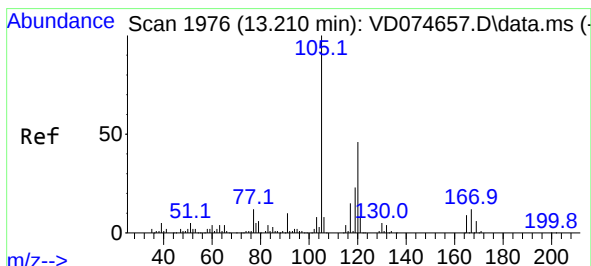
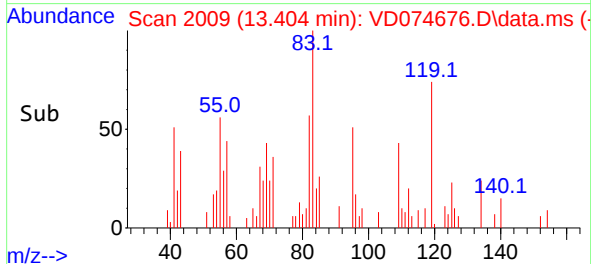
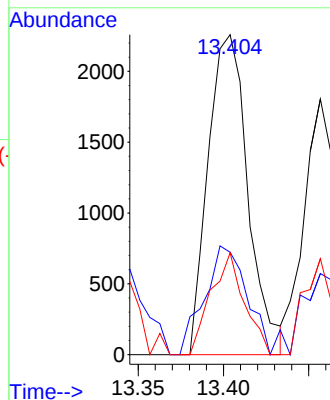
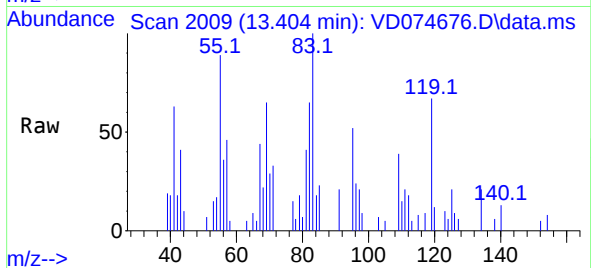




#83
tert-Butylbenzene
Concen: 1.206 ug/l
RT: 13.404 min Scan# 2099
Delta R.T. 0.241 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

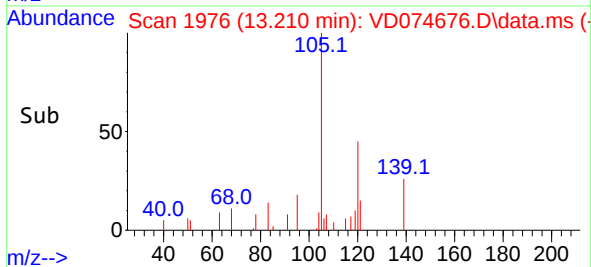
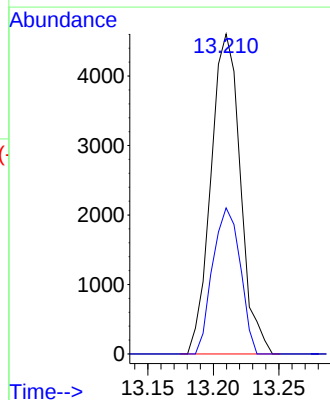
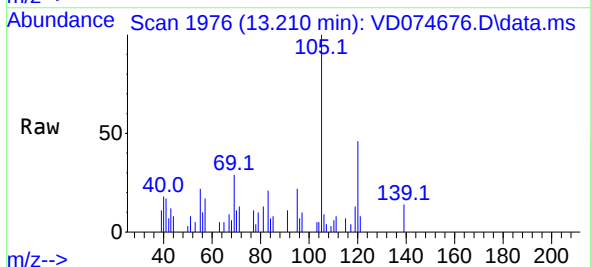
Instrument :
MSVOA_D
ClientSampleId :
TP2-1024

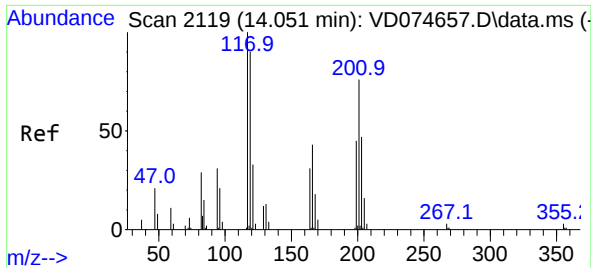
Tgt Ion:119 Resp: 3678
Ion Ratio Lower Upper
119 100
91 36.0 30.0 90.0
134 26.8 13.4 40.1



#84
1,2,4-Trimethylbenzene
Concen: 2.121 ug/l
RT: 13.210 min Scan# 1976
Delta R.T. -0.000 min
Lab File: VD074676.D
Acq: 28 Oct 2022 17:20

Tgt Ion:105 Resp: 7196
Ion Ratio Lower Upper
105 100
120 42.6 22.9 68.7





#90
 Hexachloroethane
 Concen: 3.432 ug/l
 RT: 14.063 min Scan# 2119
 Delta R.T. 0.012 min
 Lab File: VD074676.D
 Acq: 28 Oct 2022 17:20

Instrument :
 MSVOA_D
 ClientSampleId :
 TP2-1024

Tgt Ion:117 Resp: 2241
 Ion Ratio Lower Upper
 117 100
 201 0.0 38.0 114.0#

