

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD052224\
 Data File : VD078990.D
 Acq On : 22 May 2024 20:12
 Operator : RP/MD
 Sample : P2511-01
 Misc : 5.06G/5ml/MSVOA_D/SOIL/B
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: May 23 06:08:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D051324S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 14 06:21:28 2024
 Response via : Initial Calibration

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

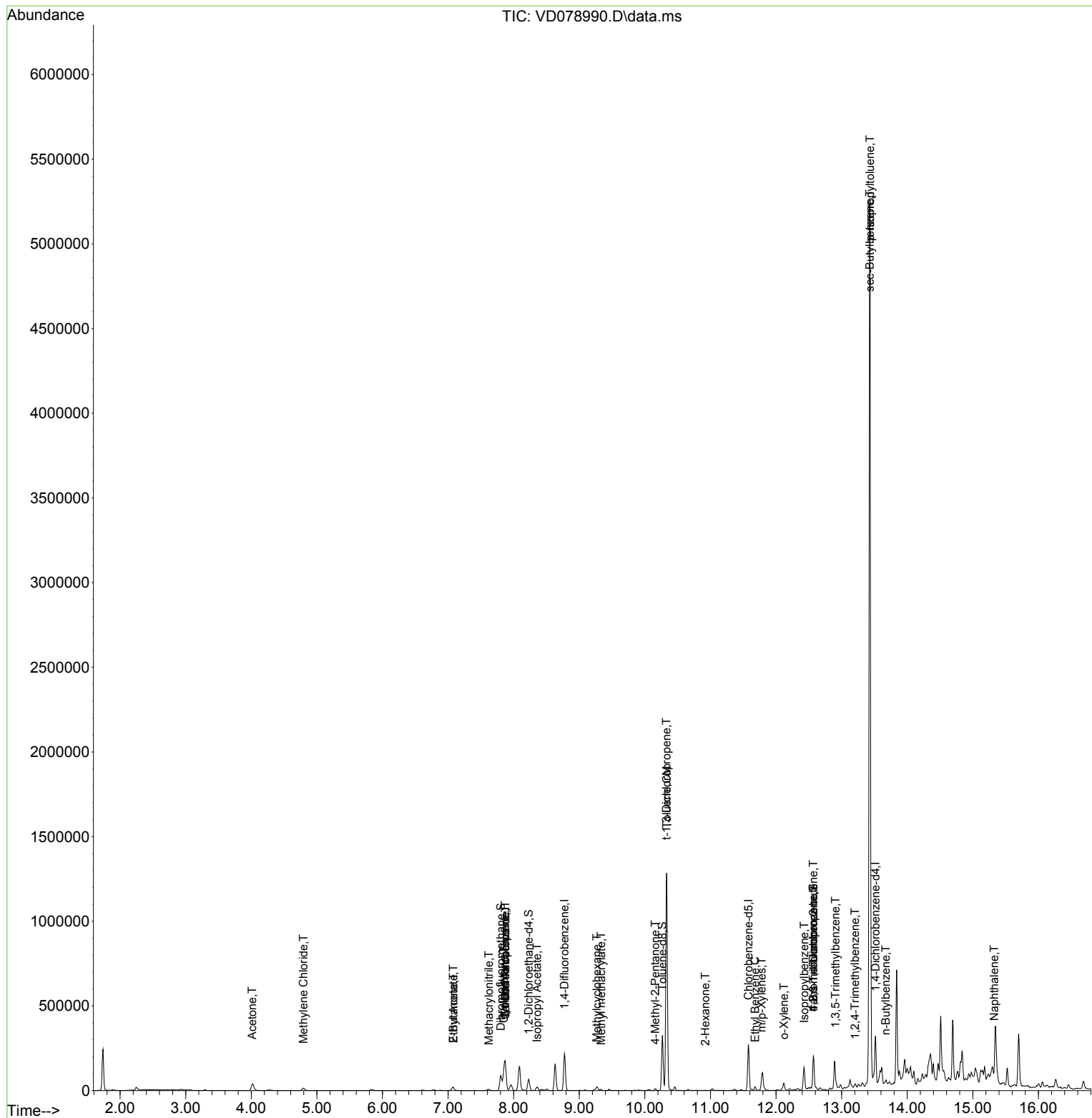
Internal Standards						
1) Pentafluorobenzene	7.869	168	102970	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	204745	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	166440	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	64913	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	49048	50.782	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.560%			
35) Dibromofluoromethane	7.804	113	62335	45.736	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 91.480%			
50) Toluene-d8	10.269	98	227759	44.577	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 89.160%			
62) 4-Bromofluorobenzene	12.569	95	59407	41.388	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 82.780%			
Target Compounds					Qvalue	
3) Chloromethane	2.146	50	177	Below Cal	#	55
4) Vinyl Chloride	2.352	62	59	Below Cal	#	42
11) Tert butyl alcohol	5.058	59	127	Below Cal	#	86
16) Acetone	4.016	43	66114	429.306	ug/l	99
20) Methylene Chloride	4.793	84	11494	4.008	ug/l	96
25) 2-Butanone	7.081	43	6987	33.922	ug/l	98
31) Cyclohexane	7.851	56	24408	17.297	ug/l #	43
36) 1,1-Dichloropropene	7.875	75	8108	4.781	ug/l #	47
37) Ethyl Acetate	7.081	43	6987	12.088	ug/l #	68
38) Carbon Tetrachloride	7.875	117	9697	4.886	ug/l #	17
39) Methylcyclohexane	9.269	83	7695	3.734	ug/l #	77
41) Methacrylonitrile	7.622	41	1576	5.067	ug/l #	12
43) Isopropyl Acetate	8.357	43	7685	7.493	ug/l #	45
48) Methyl methacrylate	9.334	41	1598	3.201	ug/l #	32
51) 4-Methyl-2-Pentanone	10.157	43	6786	12.423	ug/l	97
52) Toluene	10.334	92	573217	163.245	ug/l	99
53) t-1,3-Dichloropropene	10.328	75	5870	3.616	ug/l #	1
59) 2-Hexanone	10.922	43	1166	3.067	ug/l #	56
67) Ethyl Benzene	11.681	91	15446	2.774	ug/l #	85
68) m/p-Xylenes	11.781	106	28895	12.763	ug/l	93
69) o-Xylene	12.122	106	10989	5.324	ug/l	99
73) Isopropylbenzene	12.428	105	6912	1.784	ug/l	76
76) 1,2,3-Trichloropropane	12.569	75	31337	68.573	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.904	105	4780	1.485	ug/l	91
81) trans-1,4-Dichloro-2-b...	12.569	75	31337	135.981	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.204	105	13972	4.191	ug/l	97
85) sec-Butylbenzene	13.428	105	82620	19.456	ug/l #	74
86) p-Isopropyltoluene	13.434	119	100071	27.048	ug/l #	1
89) n-Butylbenzene	13.675	91	4777	1.441	ug/l	89
95) Naphthalene	15.328	128	4299	2.383	ug/l #	83

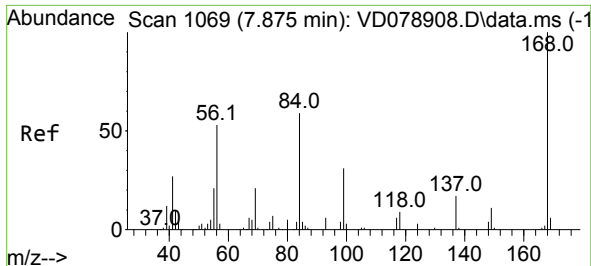
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD052224\
Data File : VD078990.D
Acq On : 22 May 2024 20:12
Operator : RP/MD
Sample : P2511-01
Misc : 5.06G/5ml/MSVOA_D/SOIL/B
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_D
ClientSampleId :

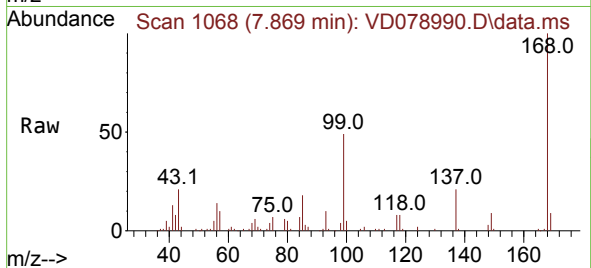
Quant Time: May 23 06:08:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D051324S.M
Quant Title : SW846 8260
QLast Update : Tue May 14 06:21:28 2024
Response via : Initial Calibration



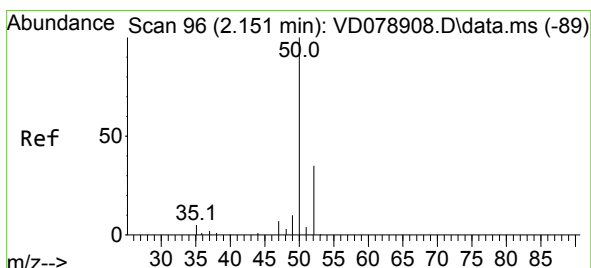
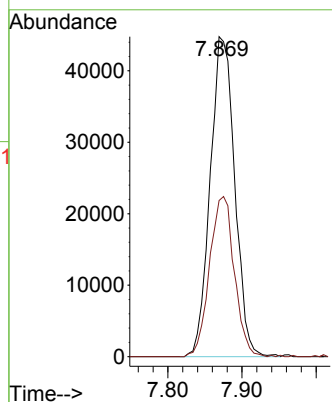
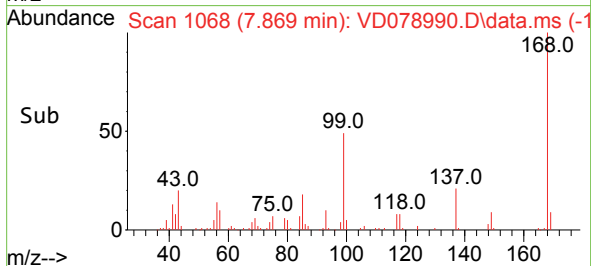


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.869 min Scan# 1069
Delta R.T. -0.006 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

Instrument :
MSVOA_D
ClientSampleId :

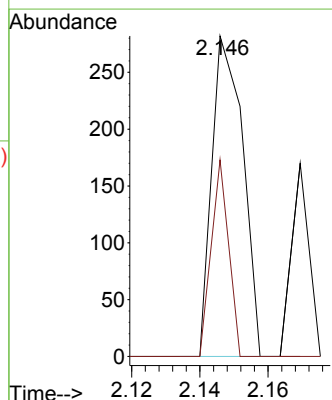
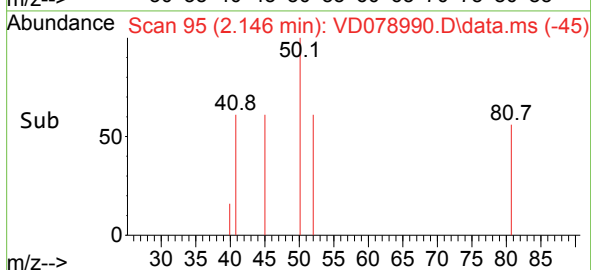
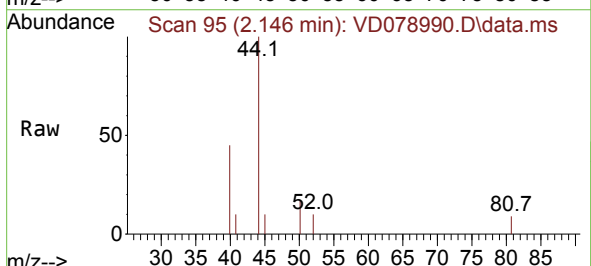


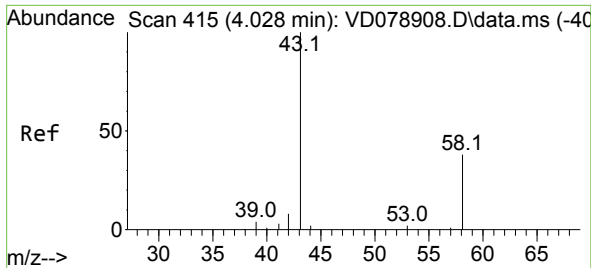
Tgt Ion:168 Resp: 102970
Ion Ratio Lower Upper
168 100
99 48.8 41.1 61.7



#3
Chloromethane
Concen: Below Cal
RT: 2.146 min Scan# 95
Delta R.T. -0.005 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

Tgt Ion: 50 Resp: 177
Ion Ratio Lower Upper
50 100
52 61.3 28.2 42.2#





#16

Acetone

Concen: 429.306 ug/l

RT: 4.016 min Scan# 41

Delta R.T. -0.011 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

Instrument :

MSVOA_D

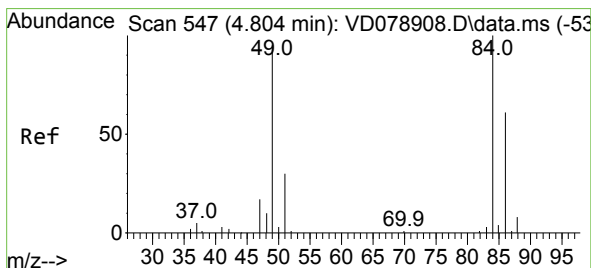
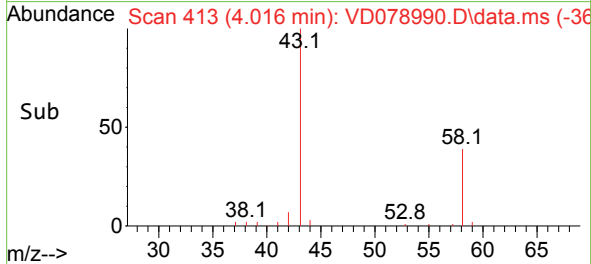
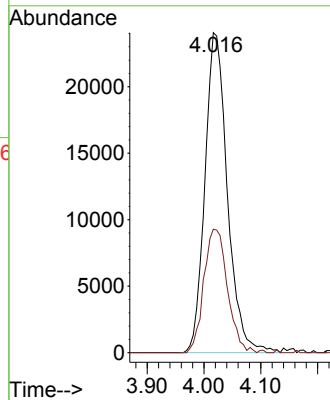
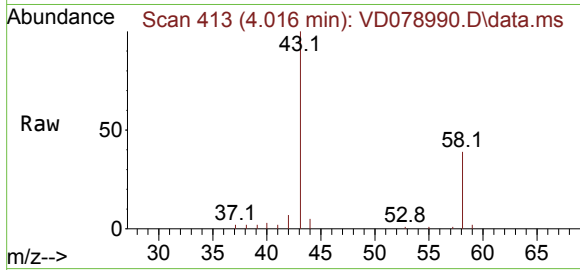
ClientSampleId :

Tgt Ion: 43 Resp: 66114

Ion Ratio Lower Upper

43 100

58 38.6 30.4 45.6



#20

Methylene Chloride

Concen: 4.008 ug/l

RT: 4.793 min Scan# 545

Delta R.T. -0.011 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

Tgt Ion: 84 Resp: 11494

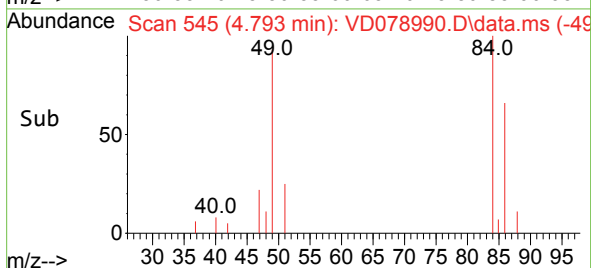
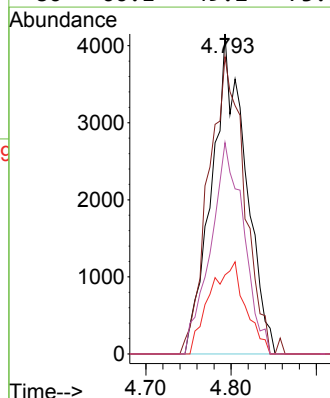
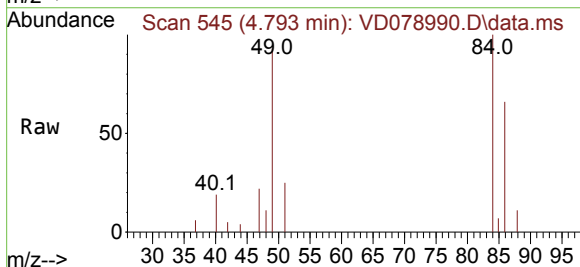
Ion Ratio Lower Upper

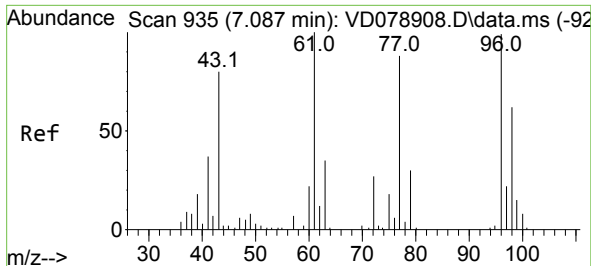
84 100

49 92.9 75.6 113.4

51 24.7 24.2 36.2

86 66.1 49.2 73.8

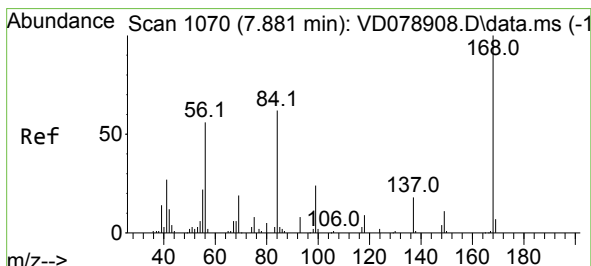
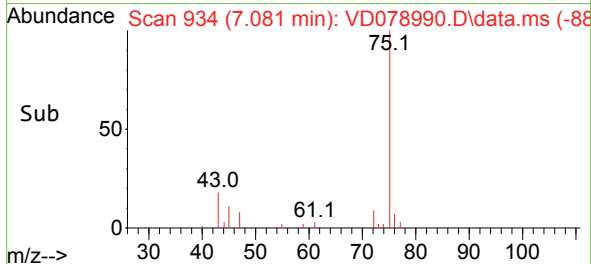
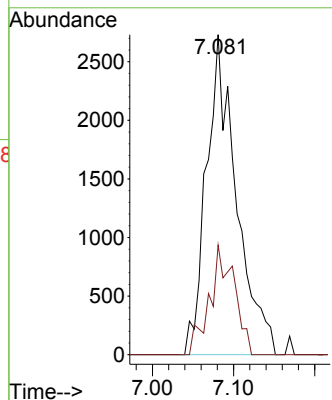
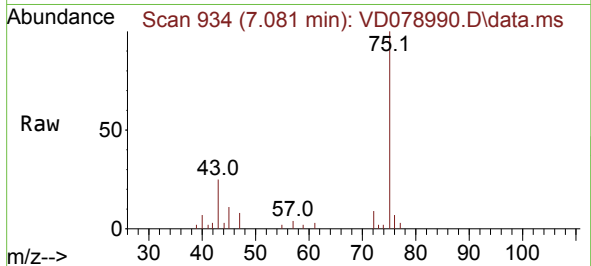




#25
2-Butanone
Concen: 33.922 ug/l
RT: 7.081 min Scan# 91
Delta R.T. -0.006 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

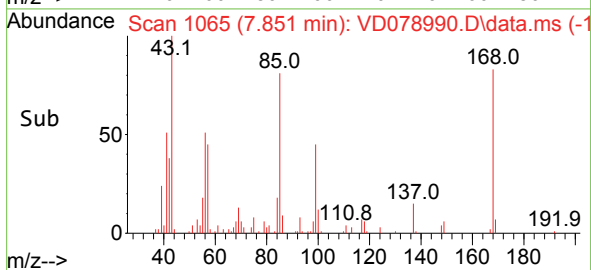
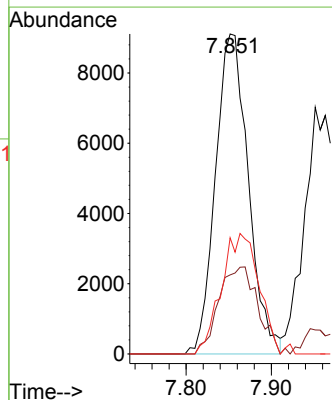
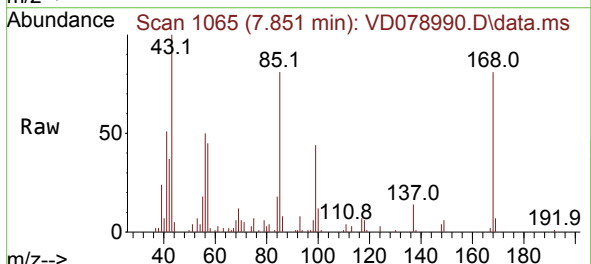
Instrument :
MSVOA_D
ClientSampleId :

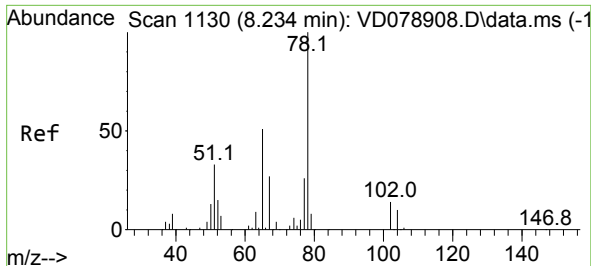
Tgt Ion: 43 Resp: 6987
Ion Ratio Lower Upper
43 100
72 34.2 26.4 39.6



#31
Cyclohexane
Concen: 17.297 ug/l
RT: 7.851 min Scan# 1065
Delta R.T. -0.029 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

Tgt Ion: 56 Resp: 24408
Ion Ratio Lower Upper
56 100
69 24.7 28.0 42.0#
84 36.3 87.4 131.0#





#33

1,2-Dichloroethane-d4

Concen: 50.782 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

Instrument :

MSVOA_D

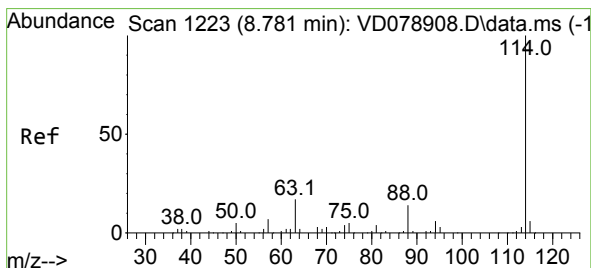
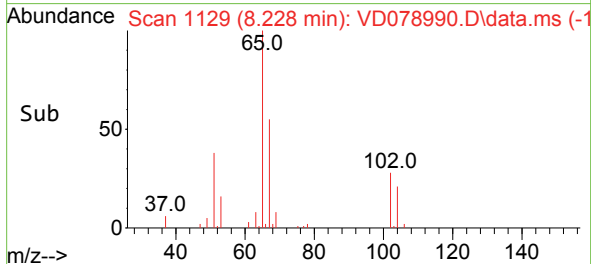
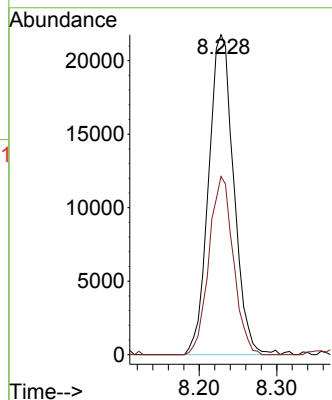
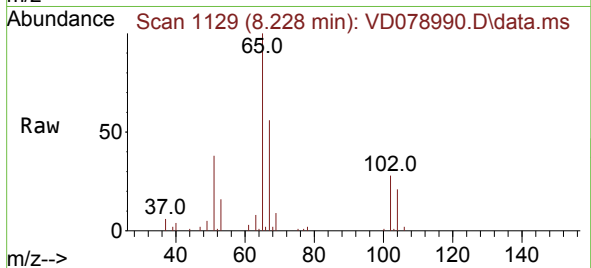
ClientSampleId :

Tgt Ion: 65 Resp: 49048

Ion Ratio Lower Upper

65 100

67 53.9 0.0 111.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. -0.006 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

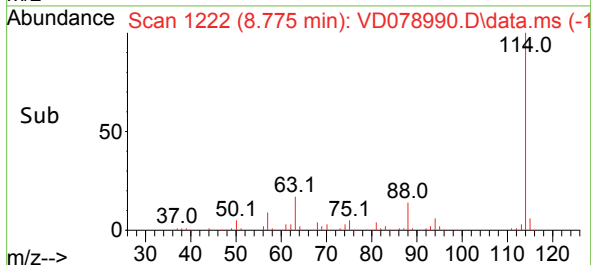
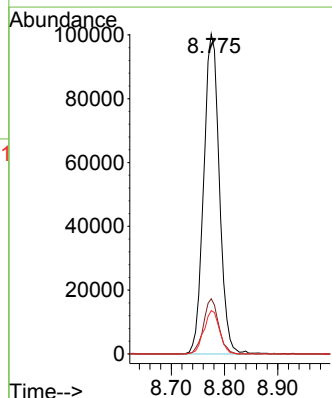
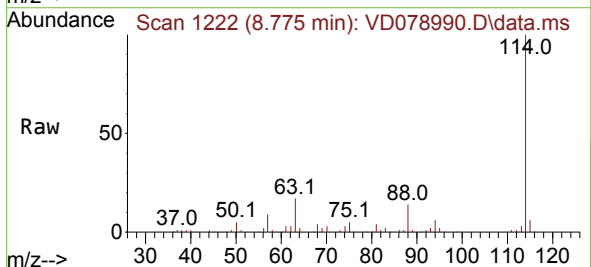
Tgt Ion: 114 Resp: 204745

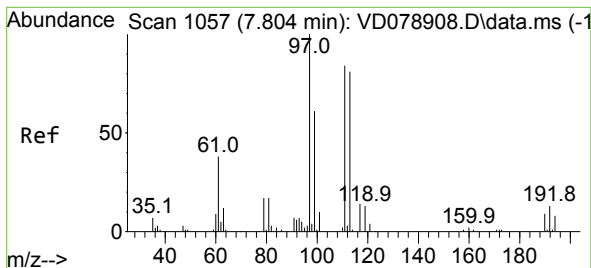
Ion Ratio Lower Upper

114 100

63 17.2 0.0 34.0

88 13.6 0.0 27.2





#35

Dibromofluoromethane

Concen: 45.736 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

Instrument :

MSVOA_D

ClientSampleId :

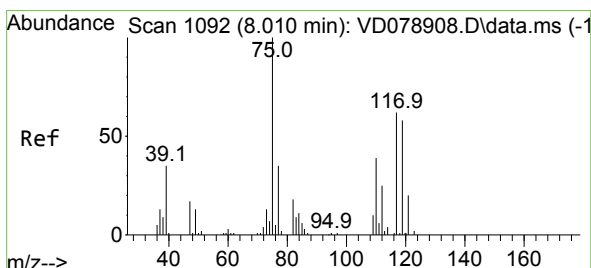
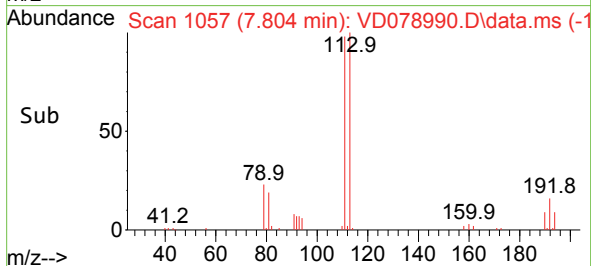
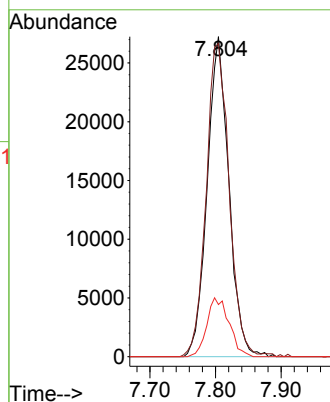
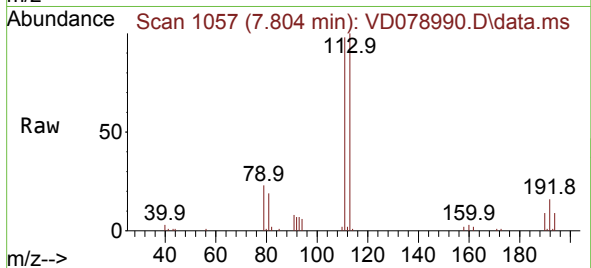
Tgt Ion:113 Resp: 62335

Ion Ratio Lower Upper

113 100

111 103.8 84.0 126.0

192 19.0 15.4 23.0



#36

1,1-Dichloropropene

Concen: 4.781 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.135 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

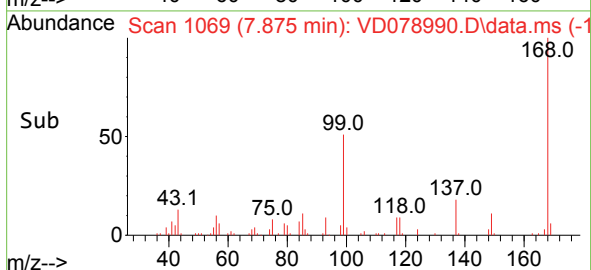
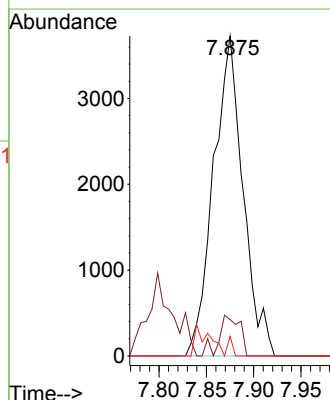
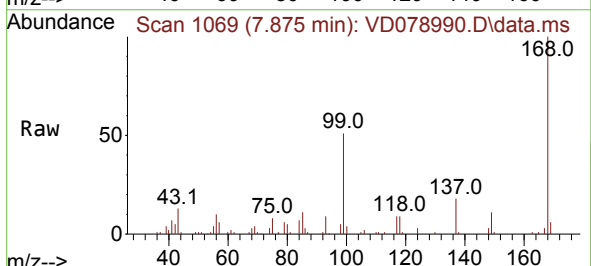
Tgt Ion: 75 Resp: 8108

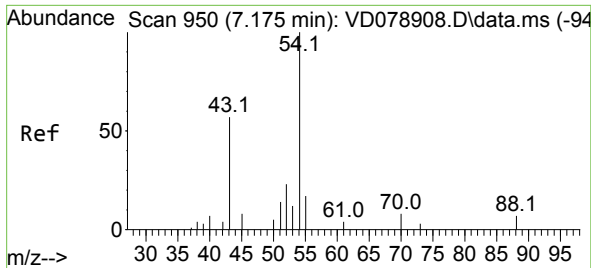
Ion Ratio Lower Upper

75 100

110 8.9 19.6 58.7#

77 0.0 26.1 39.1#





#37

Ethyl Acetate

Concen: 12.088 ug/l

RT: 7.081 min Scan# 91

Delta R.T. -0.094 min

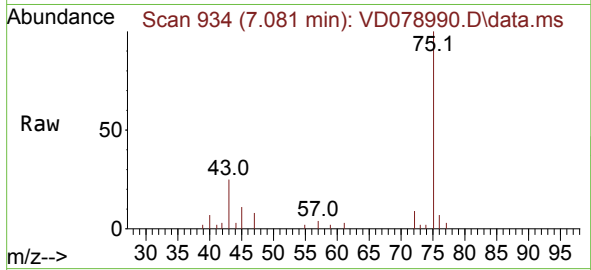
Lab File: VD078990.D

Acq: 22 May 2024 20:12

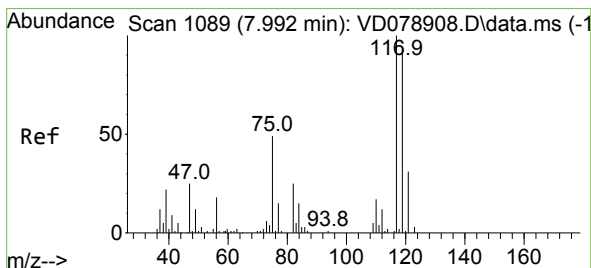
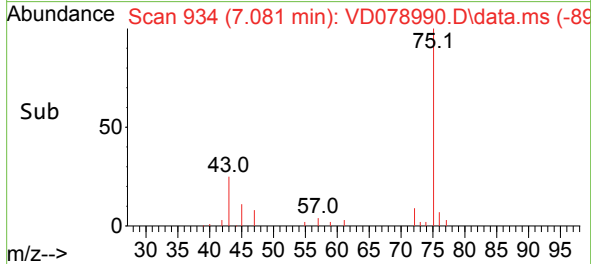
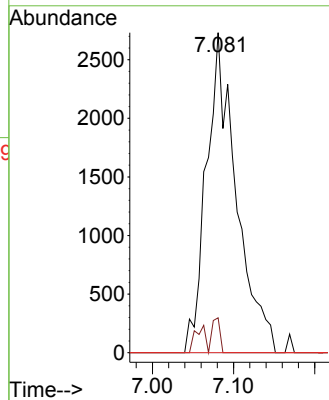
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:	43	Resp:	6987
Ion	Ratio	Lower	Upper
43	100		
61	2.9	13.9	20.9#
70	0.0	9.8	14.6#



#38

Carbon Tetrachloride

Concen: 4.886 ug/l

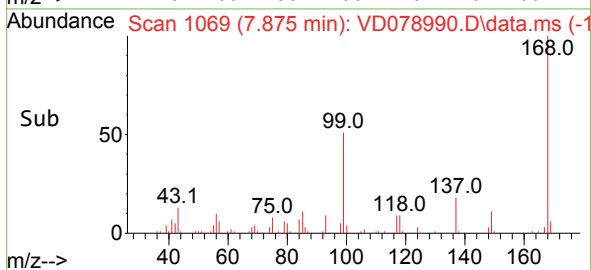
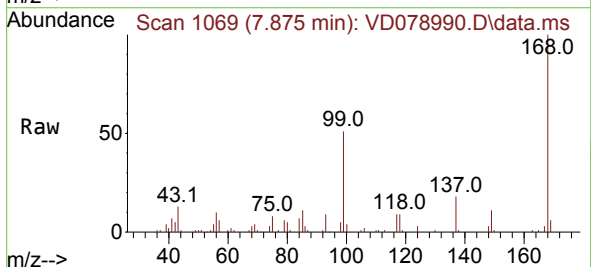
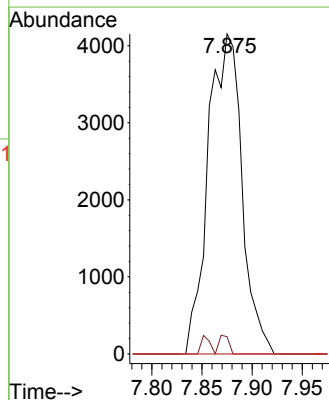
RT: 7.875 min Scan# 1069

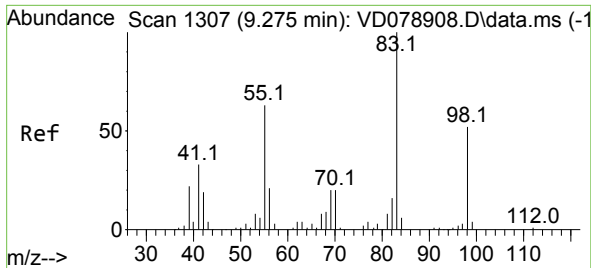
Delta R.T. -0.117 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

Tgt Ion:	117	Resp:	9697
Ion	Ratio	Lower	Upper
117	100		
119	5.4	75.4	113.0#
121	0.0	25.0	37.4#

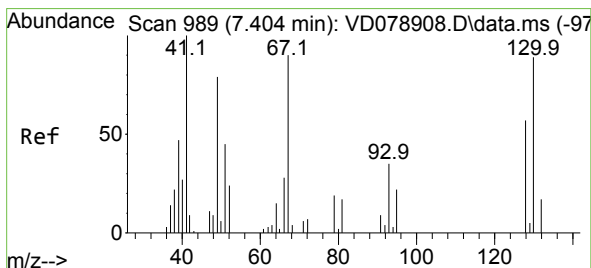
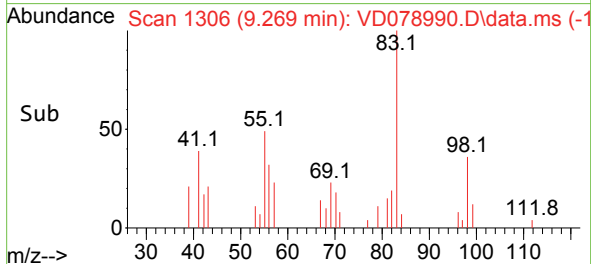
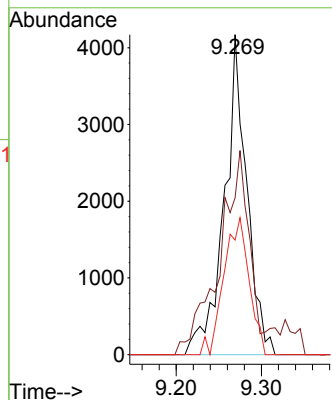
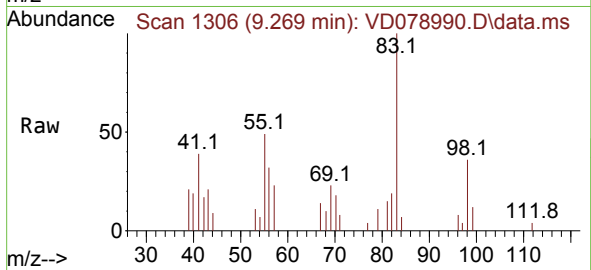




#39
Methylcyclohexane
Concen: 3.734 ug/l
RT: 9.269 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

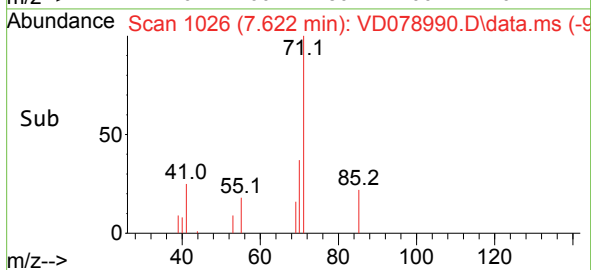
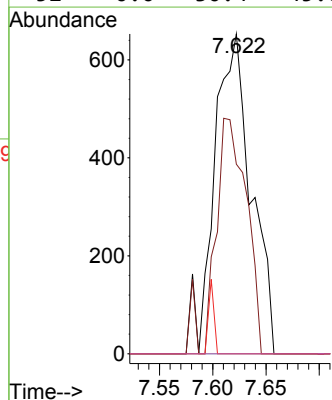
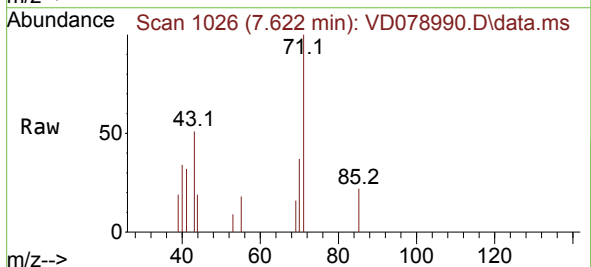
Instrument :
MSVOA_D
ClientSampleId :

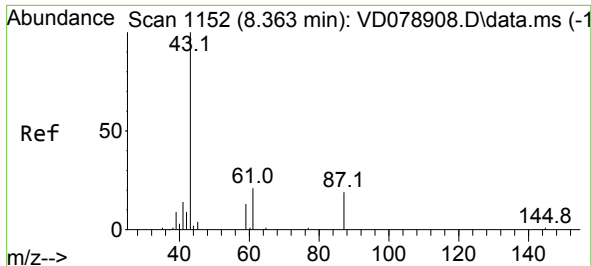
Tgt Ion: 83 Resp: 7695
Ion Ratio Lower Upper
83 100
55 44.9 50.1 75.1#
98 35.8 41.9 62.9#



#41
Methacrylonitrile
Concen: 5.067 ug/l
RT: 7.622 min Scan# 1026
Delta R.T. 0.218 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

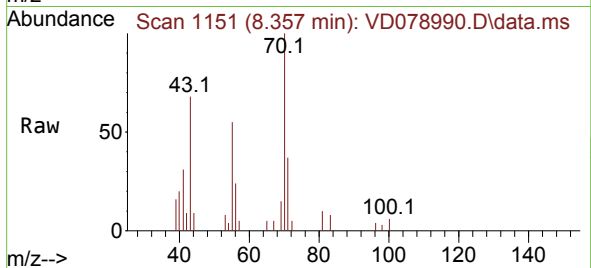
Tgt Ion: 41 Resp: 1576
Ion Ratio Lower Upper
41 100
39 0.0 41.4 62.0#
67 0.0 85.8 128.6#
52 0.0 30.4 45.6#



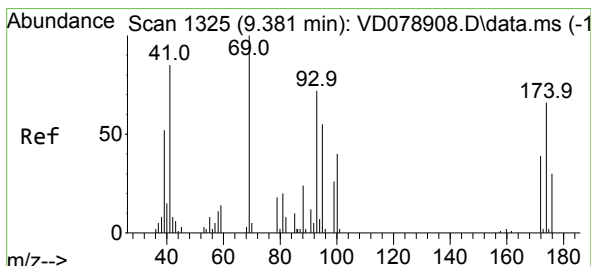
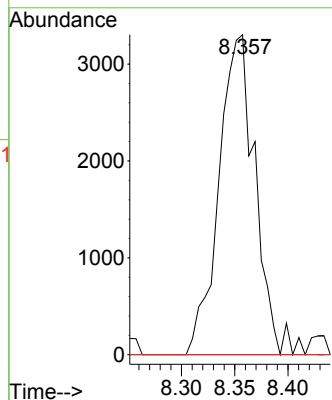
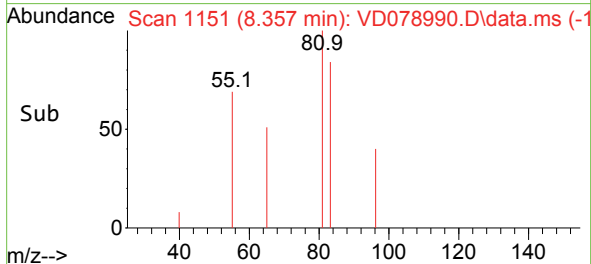


#43
Isopropyl Acetate
Concen: 7.493 ug/l
RT: 8.357 min Scan# 1151
Delta R.T. -0.006 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

Instrument :
MSVOA_D
ClientSampleId :

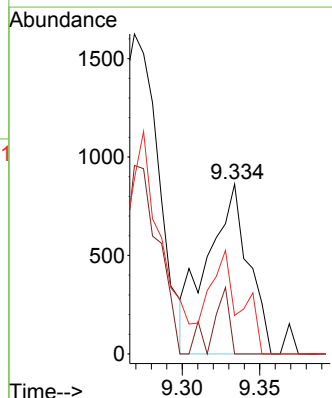
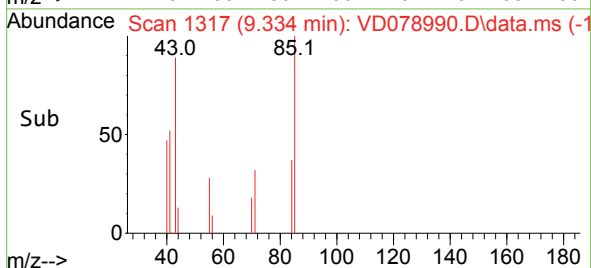
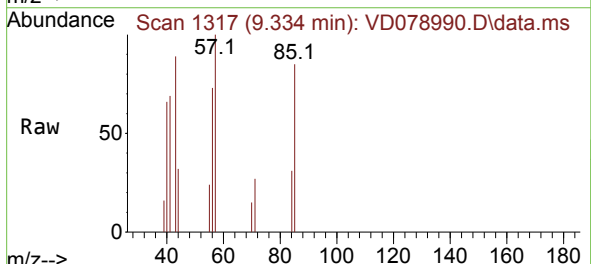


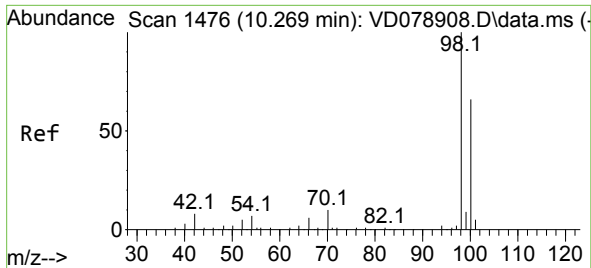
Tgt Ion: 43 Resp: 7685
Ion Ratio Lower Upper
43 100
61 0.0 29.3 43.9#
87 0.0 14.9 22.3#



#48
Methyl methacrylate
Concen: 3.201 ug/l
RT: 9.334 min Scan# 1317
Delta R.T. -0.047 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

Tgt Ion: 41 Resp: 1598
Ion Ratio Lower Upper
41 100
69 15.5 96.7 145.1#
39 47.1 43.8 65.6

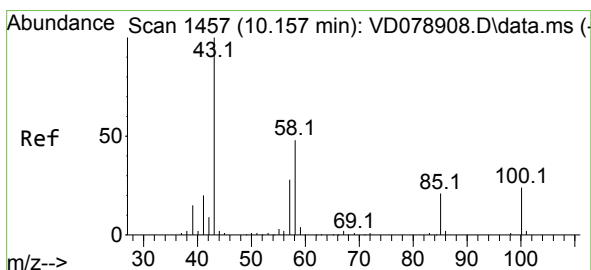
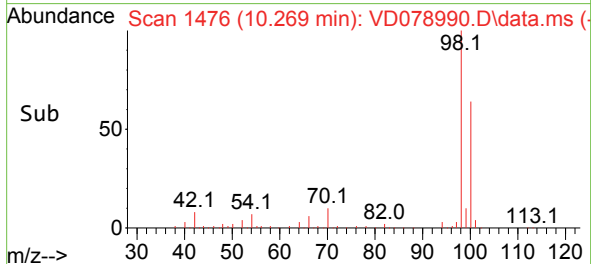
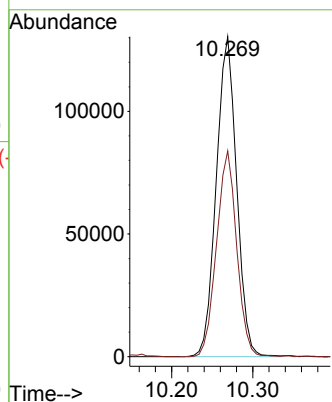
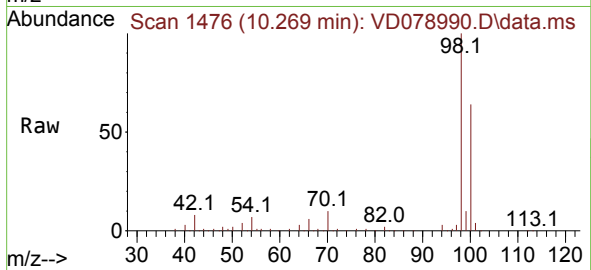




#50
Toluene-d8
Concen: 44.577 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

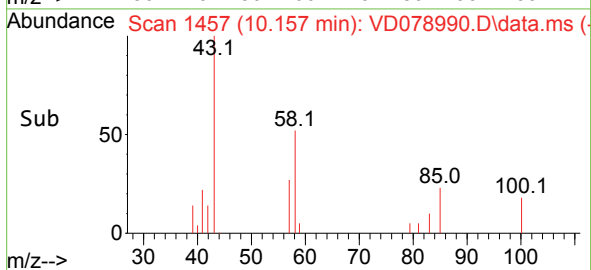
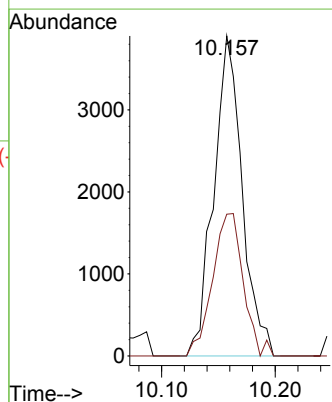
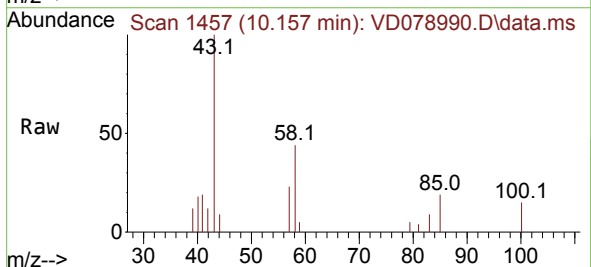
Instrument :
MSVOA_D
ClientSampleId :

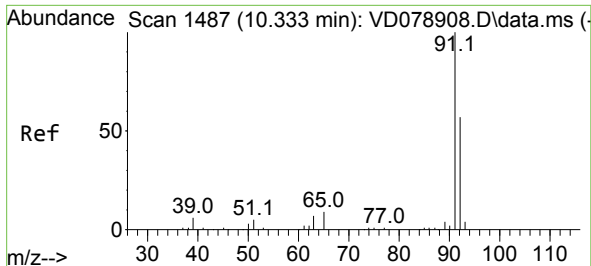
Tgt Ion: 98 Resp: 227759
Ion Ratio Lower Upper
98 100
100 63.7 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 12.423 ug/l
RT: 10.157 min Scan# 1457
Delta R.T. 0.000 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

Tgt Ion: 43 Resp: 6786
Ion Ratio Lower Upper
43 100
58 48.0 36.6 55.0

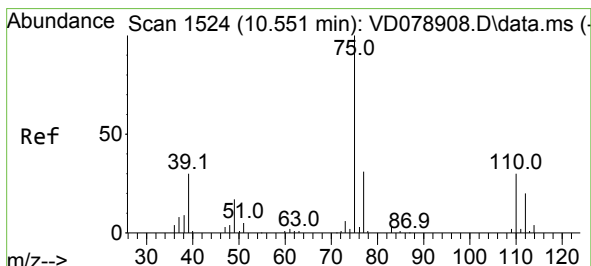
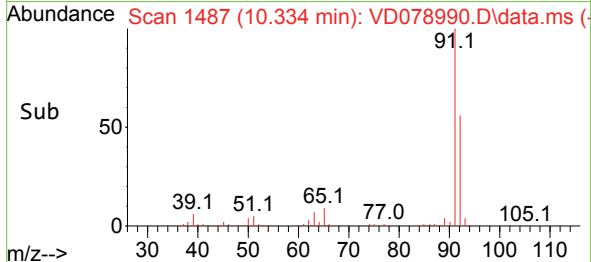
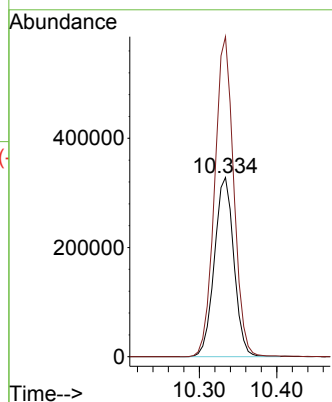
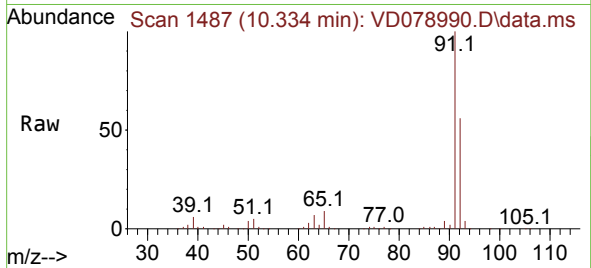




#52
Toluene
Concen: 163.245 ug/l
RT: 10.334 min Scan# 1487
Delta R.T. 0.000 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

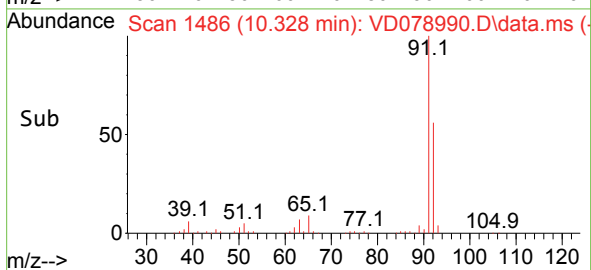
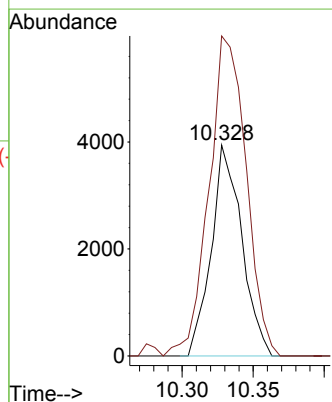
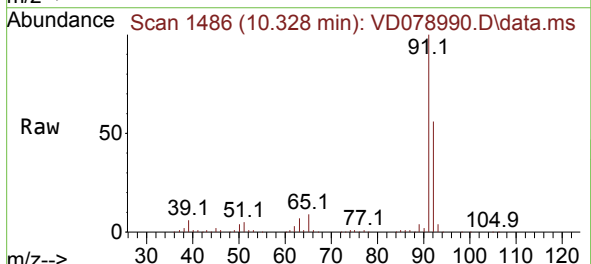
Instrument :
MSVOA_D
ClientSampleId :

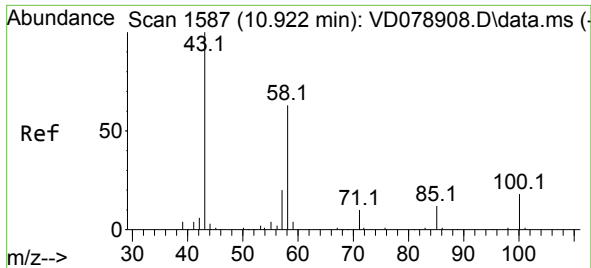
Tgt Ion: 92 Resp: 573217
Ion Ratio Lower Upper
92 100
91 175.8 141.7 212.5



#53
t-1,3-Dichloropropene
Concen: 3.616 ug/l
RT: 10.328 min Scan# 1486
Delta R.T. -0.223 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

Tgt Ion: 75 Resp: 5870
Ion Ratio Lower Upper
75 100
77 151.7 25.0 37.6#

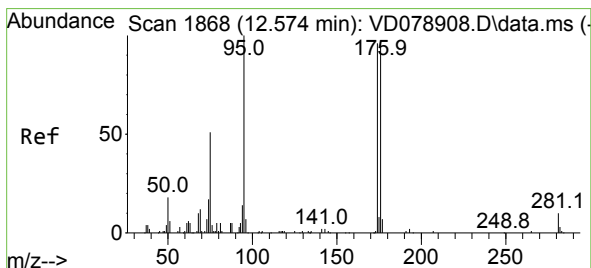
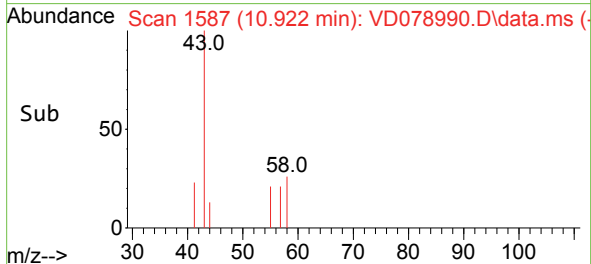
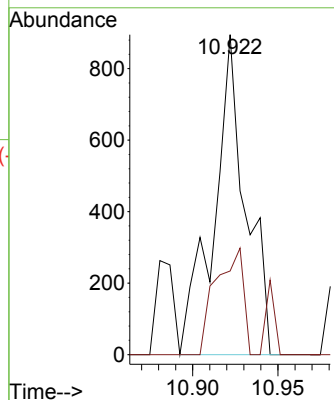
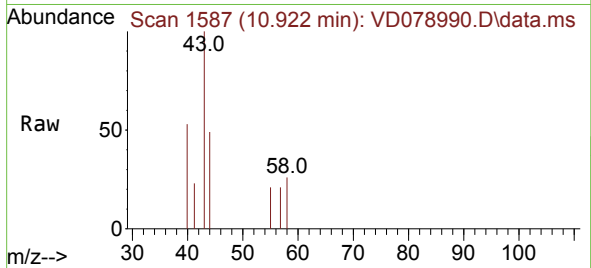




#59
2-Hexanone
Concen: 3.067 ug/l
RT: 10.922 min Scan# 1166
Delta R.T. 0.000 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

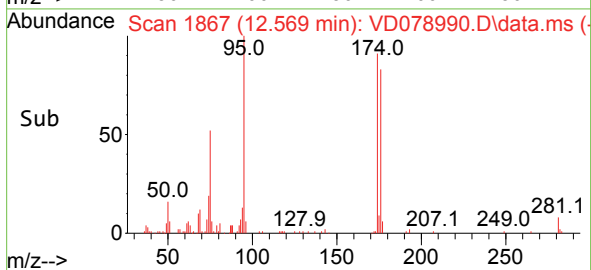
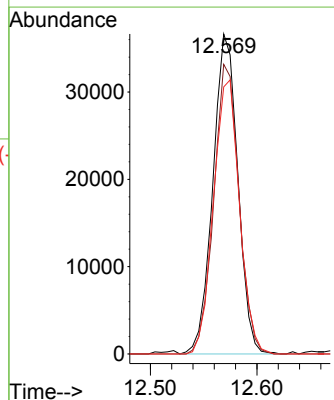
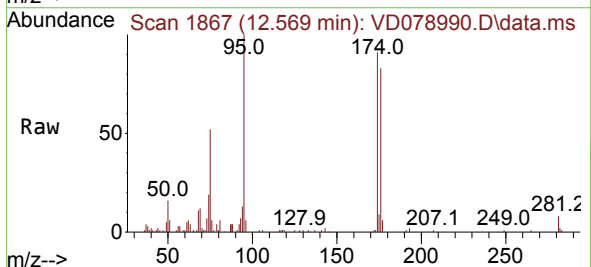
Instrument :
MSVOA_D
ClientSampleId :

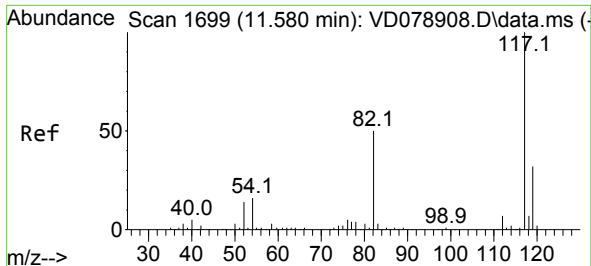
Tgt Ion: 43 Resp: 1166
Ion Ratio Lower Upper
43 100
58 28.6 31.1 93.5#



#62
4-Bromofluorobenzene
Concen: 41.388 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.006 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

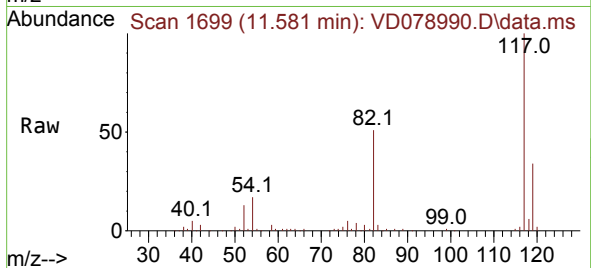
Tgt Ion: 95 Resp: 59407
Ion Ratio Lower Upper
95 100
174 91.4 0.0 195.4
176 89.5 0.0 192.6



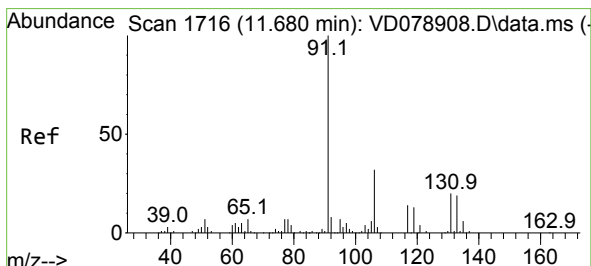
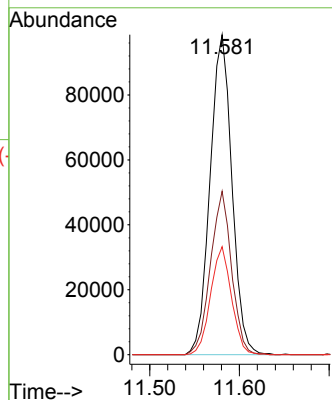
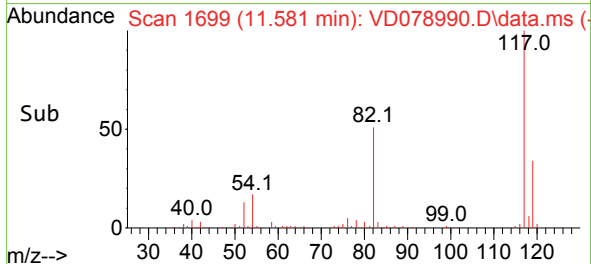


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

Instrument :
MSVOA_D
ClientSampleId :

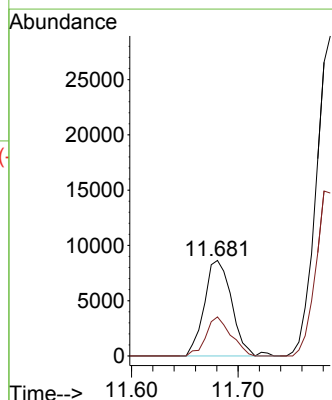
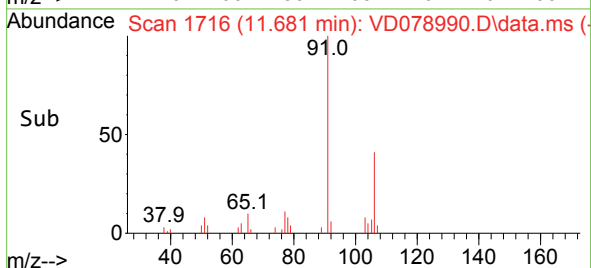
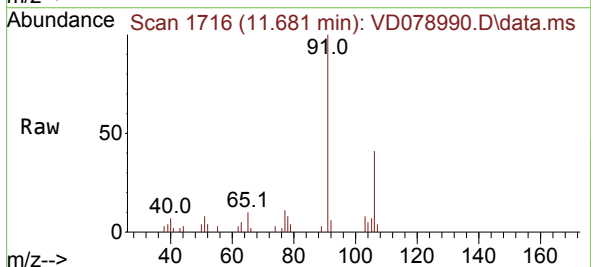


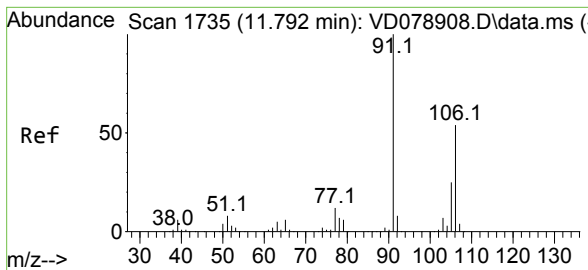
Tgt Ion:117 Resp: 166440
Ion Ratio Lower Upper
117 100
82 51.1 39.8 59.6
119 33.7 25.7 38.5



#67
Ethyl Benzene
Concen: 2.774 ug/l
RT: 11.681 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

Tgt Ion: 91 Resp: 15446
Ion Ratio Lower Upper
91 100
106 40.8 25.8 38.6#

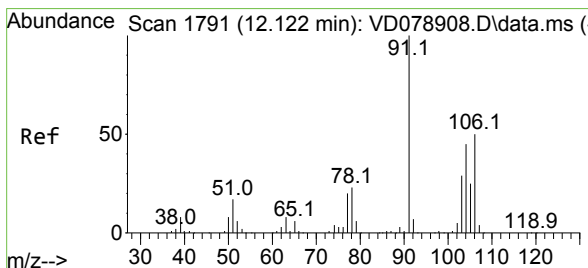
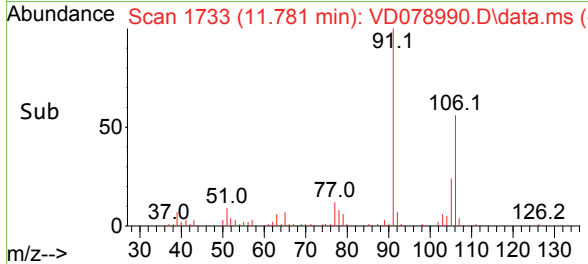
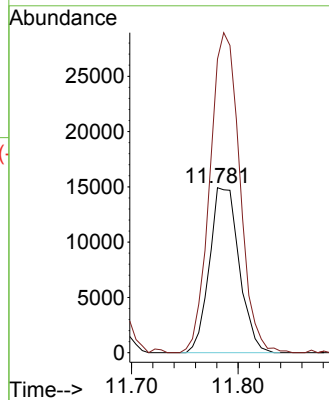
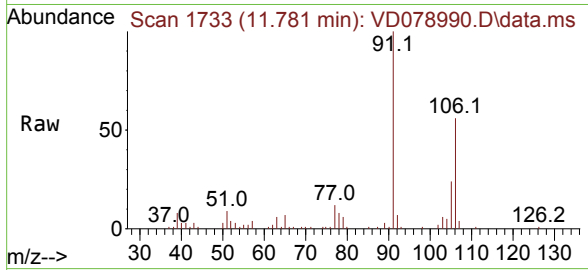




#68
m/p-Xylenes
Concen: 12.763 ug/l
RT: 11.781 min Scan# 1733
Delta R.T. -0.011 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

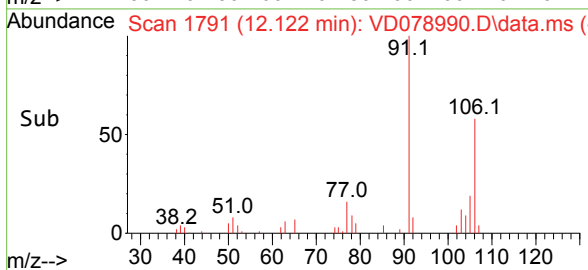
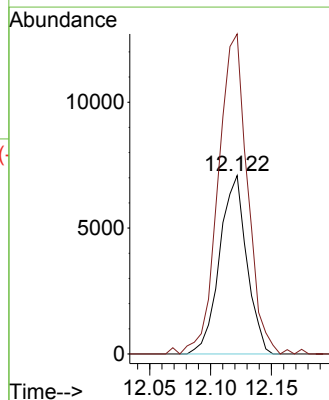
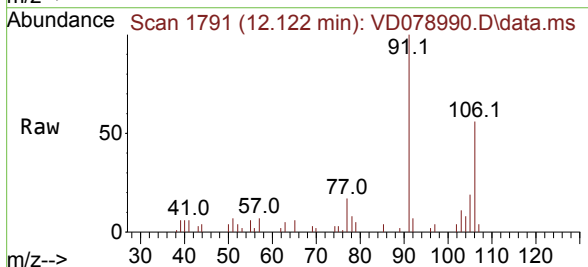
Instrument :
MSVOA_D
ClientSampleId :

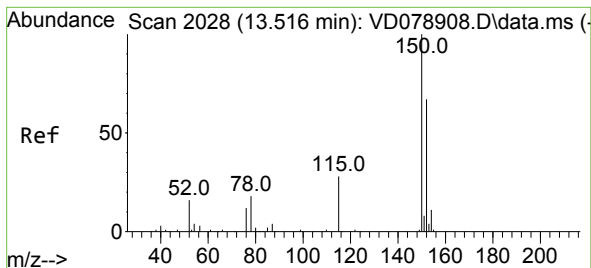
Tgt Ion:106 Resp: 28895
Ion Ratio Lower Upper
106 100
91 195.1 148.5 222.7



#69
o-Xylene
Concen: 5.324 ug/l
RT: 12.122 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

Tgt Ion:106 Resp: 10989
Ion Ratio Lower Upper
106 100
91 194.3 96.7 290.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 20

Delta R.T. 0.000 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

Instrument :

MSVOA_D

ClientSampleId :

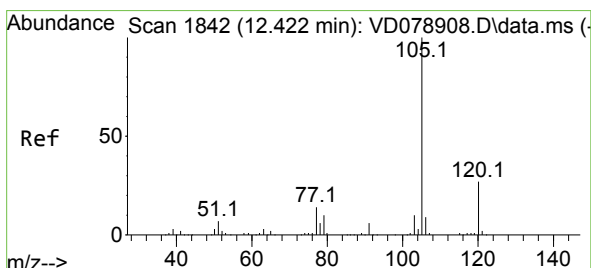
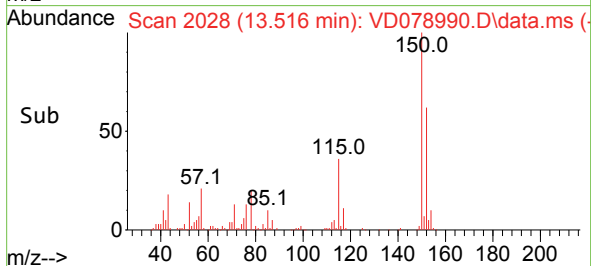
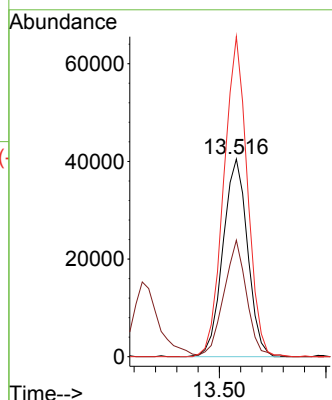
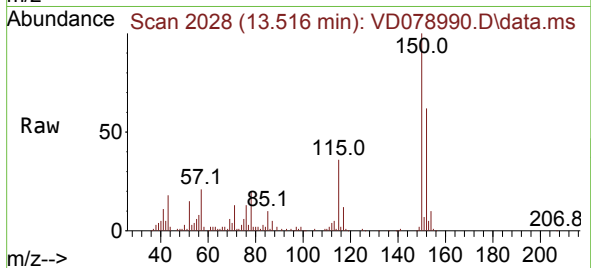
Tgt Ion:152 Resp: 64913

Ion Ratio Lower Upper

152 100

115 54.6 26.5 79.5

150 155.1 0.0 341.6



#73

Isopropylbenzene

Concen: 1.784 ug/l

RT: 12.428 min Scan# 1843

Delta R.T. 0.006 min

Lab File: VD078990.D

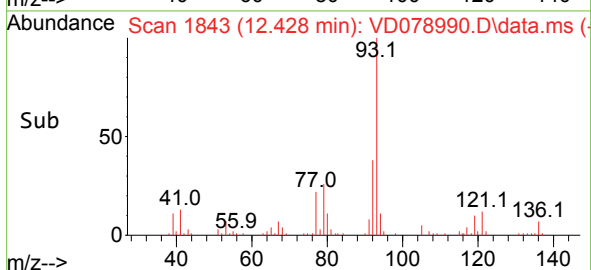
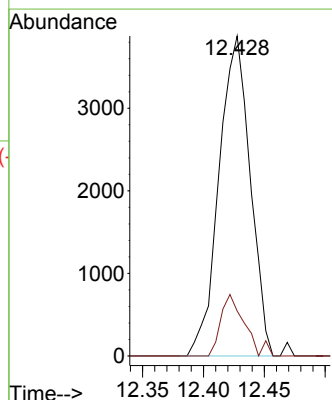
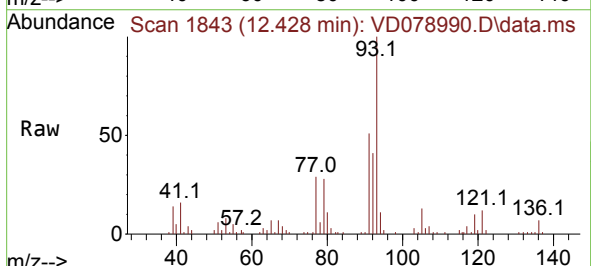
Acq: 22 May 2024 20:12

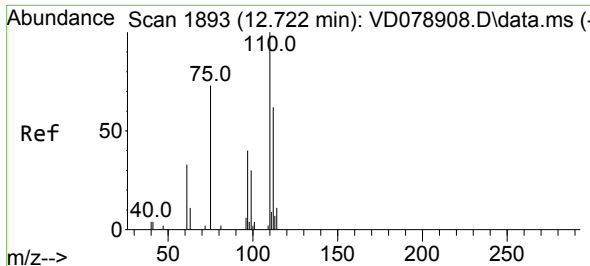
Tgt Ion:105 Resp: 6912

Ion Ratio Lower Upper

105 100

120 14.7 13.6 40.7

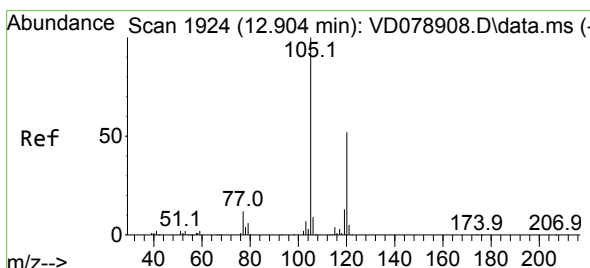
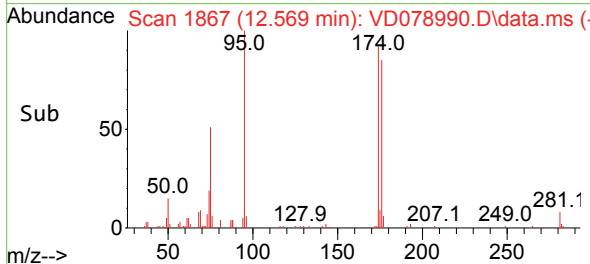
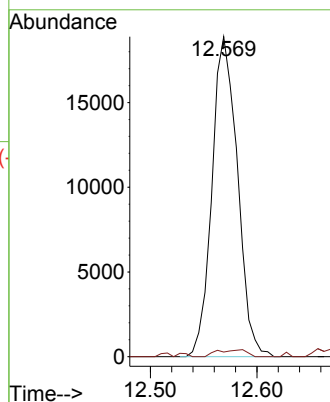
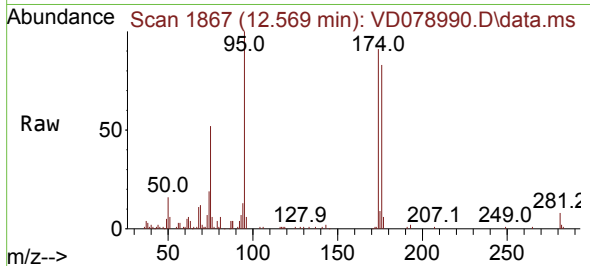




#76
1,2,3-Trichloropropane
Concen: 68.573 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.153 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

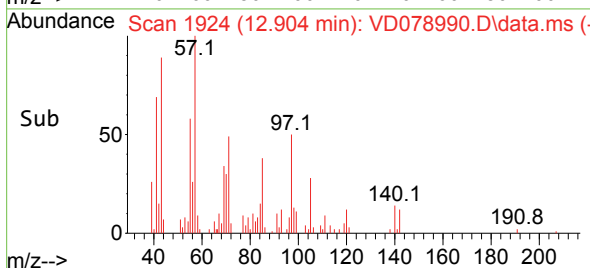
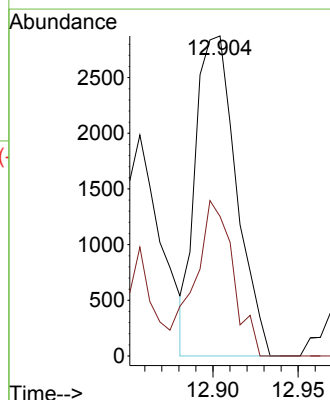
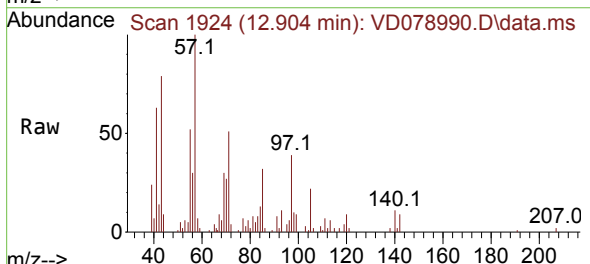
Instrument :
MSVOA_D
ClientSampleId :

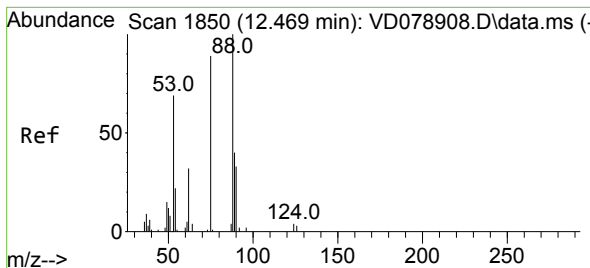
Tgt Ion: 75 Resp: 31337
Ion Ratio Lower Upper
75 100
77 2.5 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 1.485 ug/l
RT: 12.904 min Scan# 1924
Delta R.T. 0.000 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

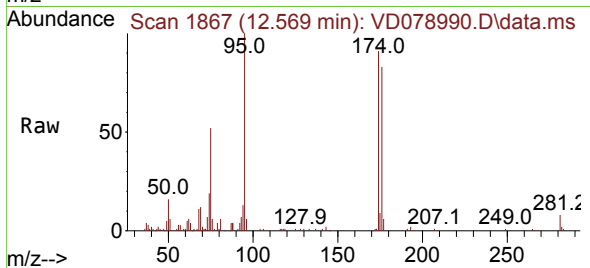
Tgt Ion: 105 Resp: 4780
Ion Ratio Lower Upper
105 100
120 45.1 25.7 77.1



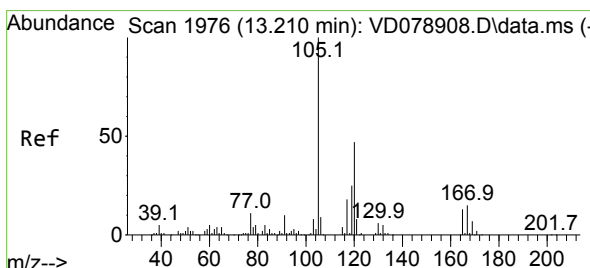
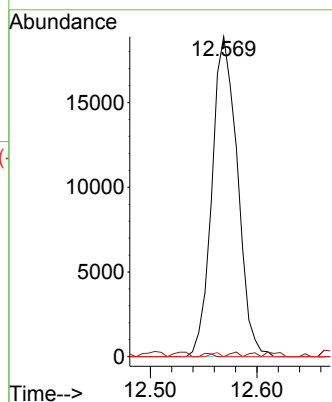
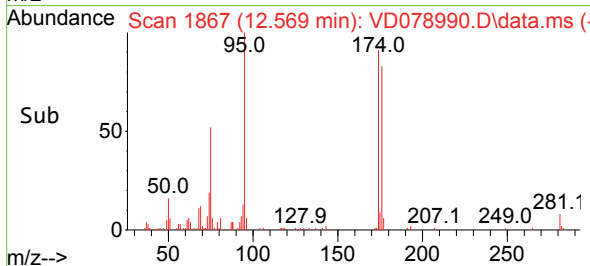


#81
trans-1,4-Dichloro-2-butene
Concen: 135.981 ug/l
RT: 12.569 min Scan# 1850
Delta R.T. 0.100 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

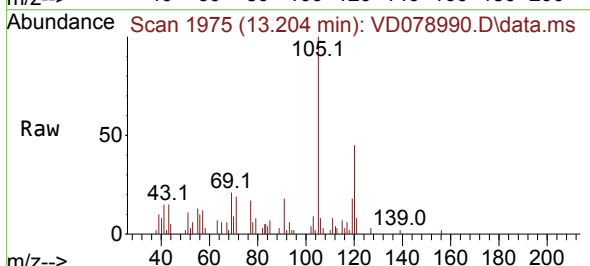
Instrument :
MSVOA_D
ClientSampleId :



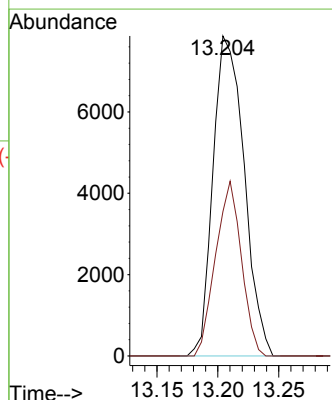
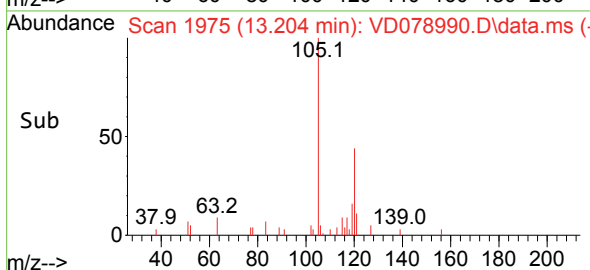
Tgt Ion: 75 Resp: 31337
Ion Ratio Lower Upper
75 100
53 0.5 61.4 92.2#
89 0.4 35.4 53.0#

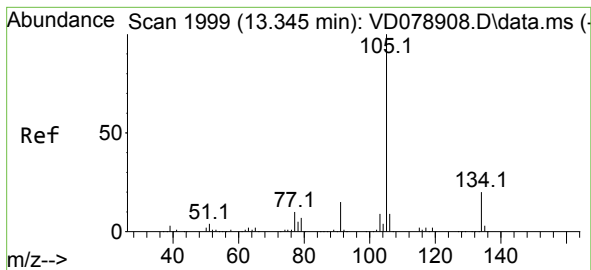


#84
1,2,4-Trimethylbenzene
Concen: 4.191 ug/l
RT: 13.204 min Scan# 1975
Delta R.T. -0.006 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12



Tgt Ion: 105 Resp: 13972
Ion Ratio Lower Upper
105 100
120 45.4 23.6 71.0





#85

sec-Butylbenzene

Concen: 19.456 ug/l

RT: 13.428 min Scan# 2013

Delta R.T. 0.083 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

Instrument :

MSVOA_D

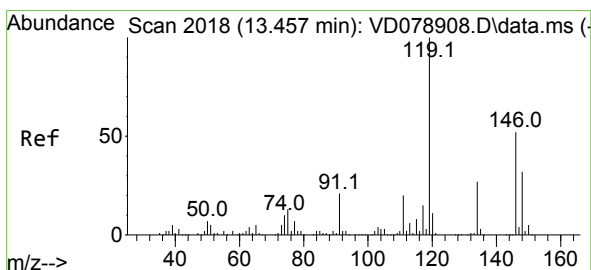
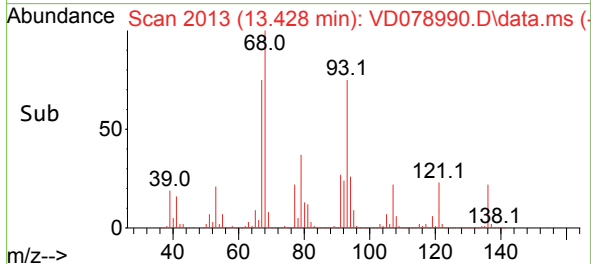
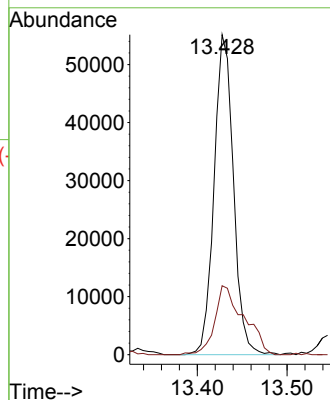
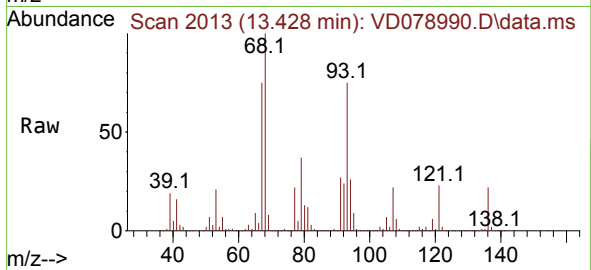
ClientSampleId :

Tgt Ion:105 Resp: 82620

Ion Ratio Lower Upper

105 100

134 32.4 10.3 30.8#



#86

p-Isopropyltoluene

Concen: 27.048 ug/l

RT: 13.434 min Scan# 2014

Delta R.T. -0.023 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

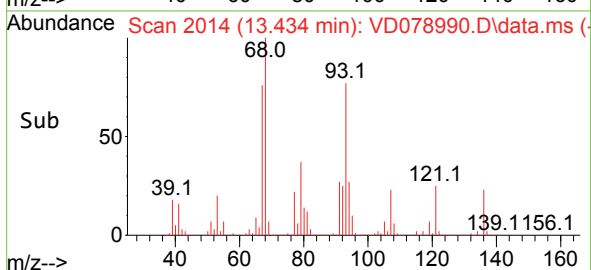
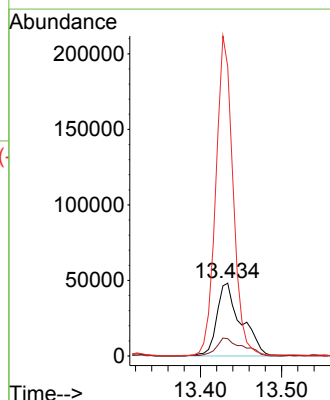
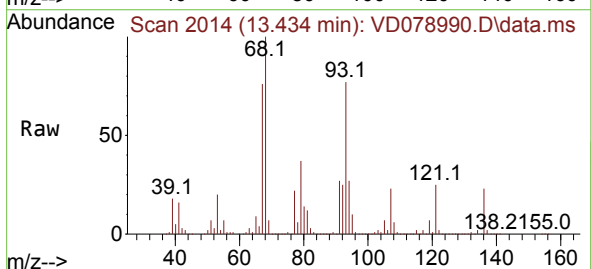
Tgt Ion:119 Resp: 100071

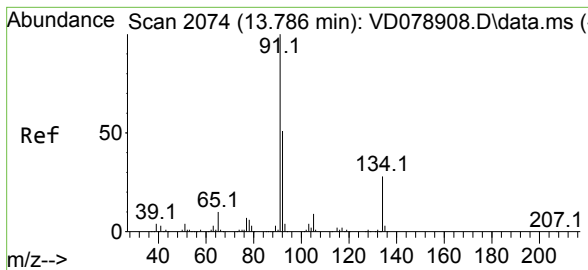
Ion Ratio Lower Upper

119 100

134 26.8 13.7 41.1

91 313.6 10.7 32.1#

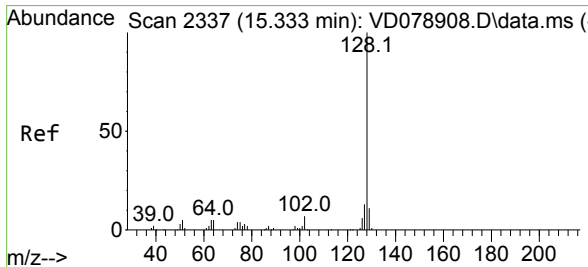
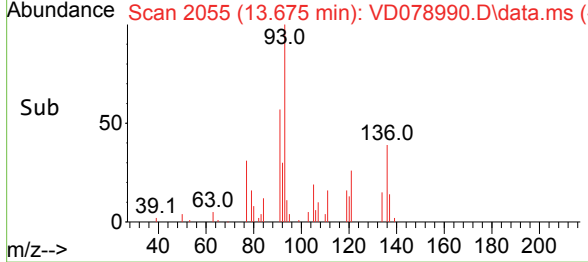
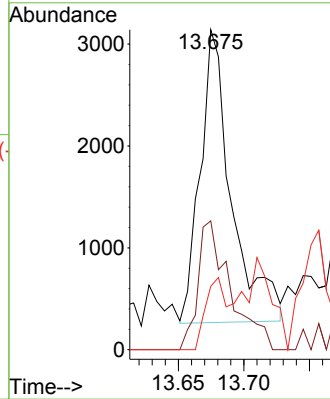
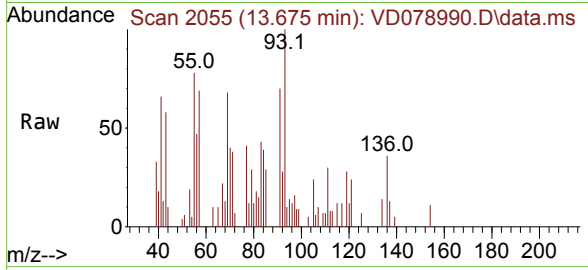




#89
n-Butylbenzene
Concen: 1.441 ug/l
RT: 13.675 min Scan# 2055
Delta R.T. -0.111 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 91 Resp: 4777
Ion Ratio Lower Upper
91 100
92 45.6 25.7 77.0
134 18.7 13.6 40.8



#95
Naphthalene
Concen: 2.383 ug/l
RT: 15.328 min Scan# 2336
Delta R.T. -0.005 min
Lab File: VD078990.D
Acq: 22 May 2024 20:12

Tgt Ion:128 Resp: 4299
Ion Ratio Lower Upper
128 100
127 16.6 10.2 15.4#
129 20.4 8.5 12.7#

