

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD041624\
 Data File : VD078822.D
 Acq On : 16 Apr 2024 14:32
 Operator : RP/MD
 Sample : P2123-01
 Misc : 4.36G/5ml/MSVOA_D/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

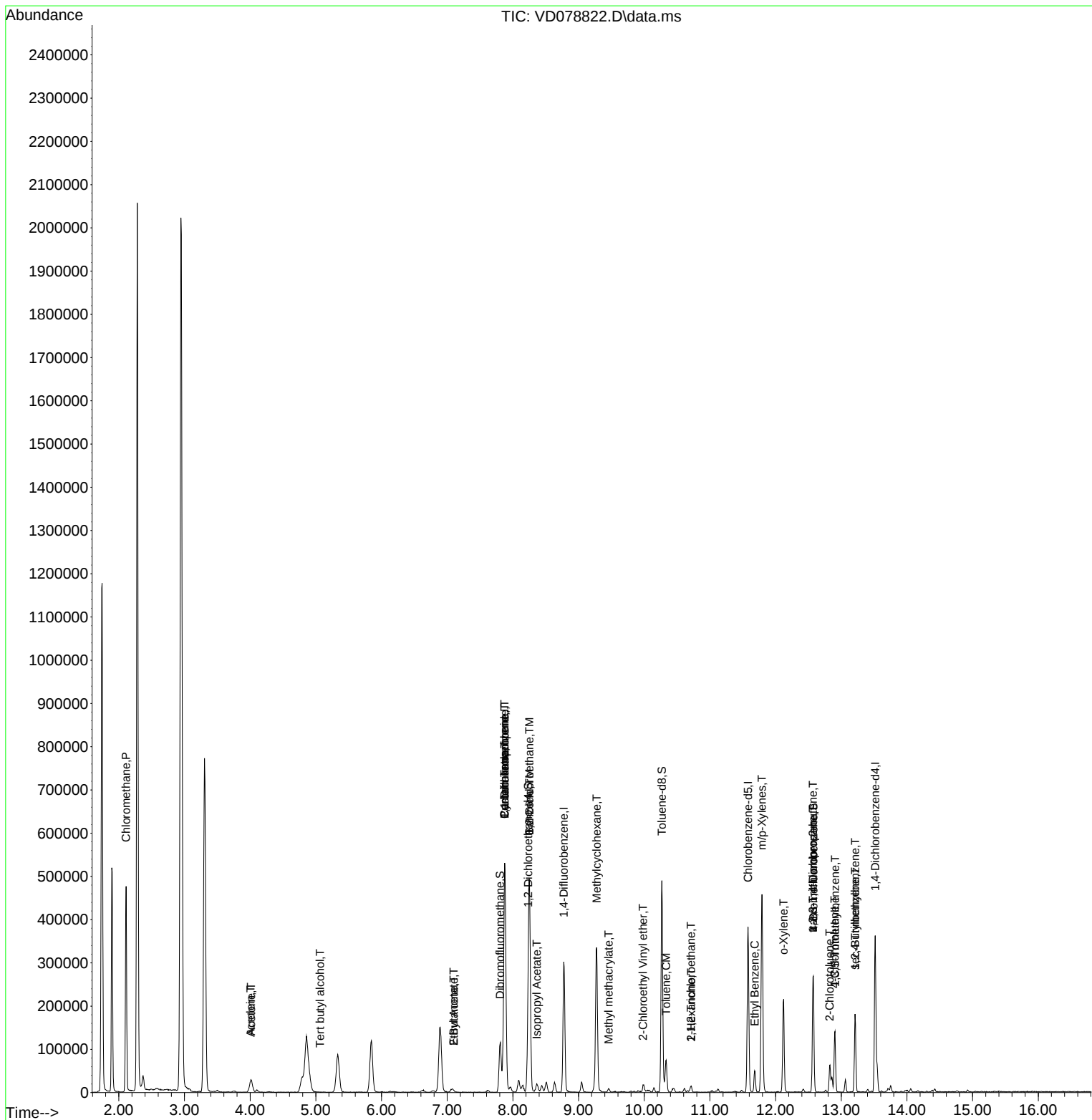
Quant Time: Apr 16 22:33:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031424S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 05:38:03 2024
 Response via : Initial Calibration

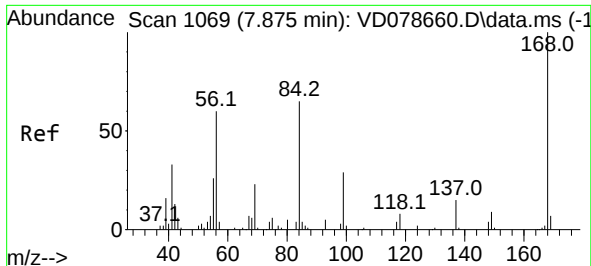
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.875	168	152113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	276178	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	228461	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	94284	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	72026	50.53	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 101.06%			
35) Dibromofluoromethane	7.805	113	84395	47.46	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 94.92%			
50) Toluene-d8	10.269	98	329133	50.33	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.66%			
62) 4-Bromofluorobenzene	12.575	95	82276	43.00	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 86.00%			
Target Compounds						Qvalue
3) Chloromethane	2.111	50	4367	1.95	ug/l #	75
11) Tert butyl alcohol	5.064	59	155	2.43	ug/l #	75
13) Acrolein	4.005	56	5779	57.83	ug/l	92
16) Acetone	4.017	43	22305	80.91	ug/l #	74
20) Methylene Chloride	4.793	84	3713	Below Cal	#	74
25) 2-Butanone	7.099	43	4993	13.62	ug/l #	87
31) Cyclohexane	7.875	56	184458	76.98	ug/l	99
36) 1,1-Dichloropropene	7.875	75	12452	4.83	ug/l #	48
37) Ethyl Acetate	7.099	43	4993	5.92	ug/l #	63
38) Carbon Tetrachloride	7.875	117	15675	5.76	ug/l #	14
39) Methylcyclohexane	9.275	83	153253	51.21	ug/l	96
40) Benzene	8.252	78	497924	63.84	ug/l	98
42) 1,2-Dichloroethane	8.252	62	4154	2.18	ug/l #	69
43) Isopropyl Acetate	8.363	43	1888	1.23	ug/l #	44
48) Methyl methacrylate	9.457	41	2458	3.29	ug/l	91
52) Toluene	10.334	92	34002	6.77	ug/l	95
55) 1,1,2-Trichloroethane	10.710	97	2460	1.66	ug/l #	15
58) 2-Chloroethyl Vinyl ether	9.981	63	785	1.20	ug/l #	77
59) 2-Hexanone	10.716	43	831	1.40	ug/l	65
67) Ethyl Benzene	11.681	91	33940	4.17	ug/l	89
68) m/p-Xylenes	11.793	106	150451	45.54	ug/l	100
69) o-Xylene	12.122	106	62061	20.30	ug/l	99
76) 1,2,3-Trichloropropane	12.569	75	42302	58.24	ug/l #	100
79) 2-Chlorotoluene	12.822	91	5769	1.39	ug/l #	36
80) 1,3,5-Trimethylbenzene	12.904	105	76660	14.93	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.569	75	42302	122.07	ug/l #	19
82) 4-Chlorotoluene	12.898	91	8821	2.01	ug/l #	37
84) 1,2,4-Trimethylbenzene	13.210	105	97204	18.79	ug/l	97
85) sec-Butylbenzene	13.210	105	97204	14.51	ug/l #	55

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

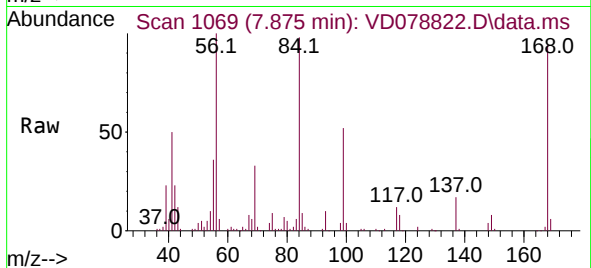
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D031424S.M
Quant Title : SW846 8260
QLast Update : Fri Mar 15 05:38:03 2024
Response via : Initial Calibration



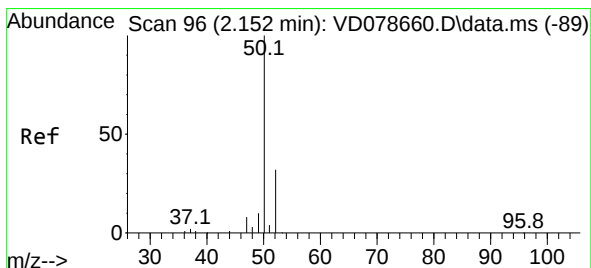
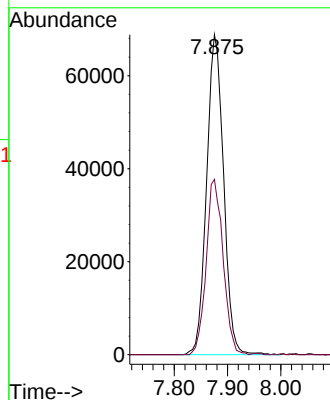
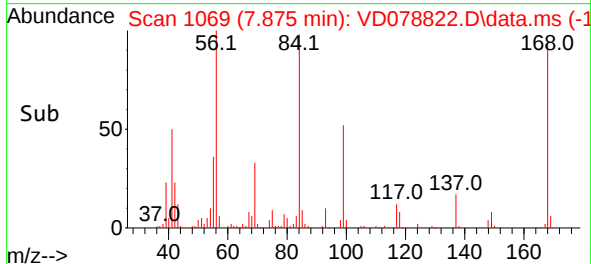


#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

Instrument :
MSVOA_D
ClientSampleId :

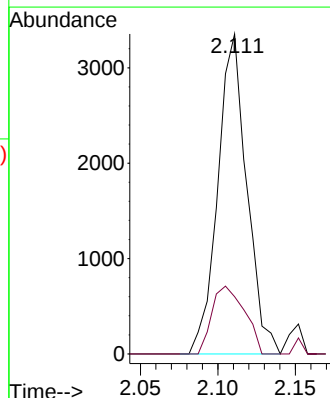
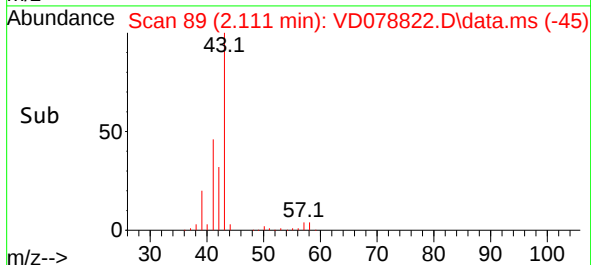
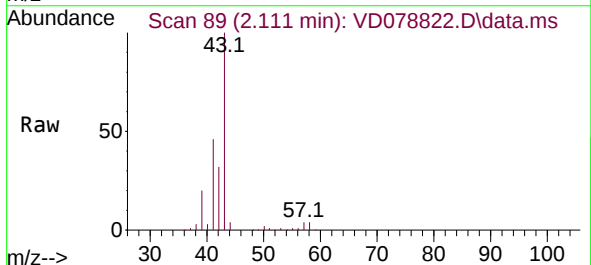


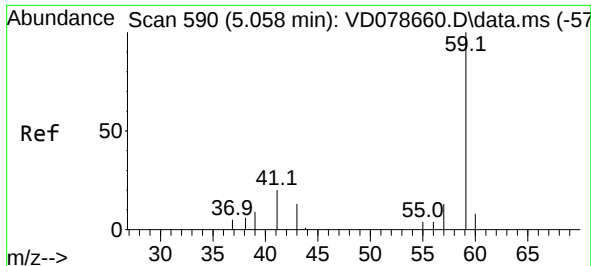
Tgt Ion:168 Resp: 152113
Ion Ratio Lower Upper
168 100
99 54.8 38.8 58.2



#3
Chloromethane
Concen: 1.95 ug/l
RT: 2.111 min Scan# 89
Delta R.T. -0.041 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

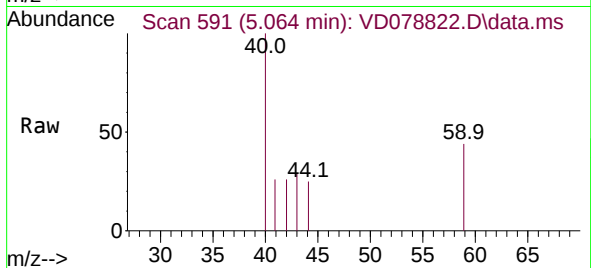
Tgt Ion: 50 Resp: 4367
Ion Ratio Lower Upper
50 100
52 17.9 25.6 38.4#



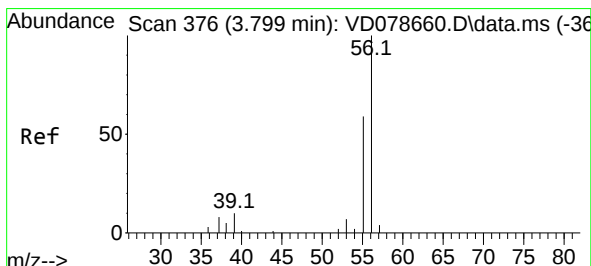
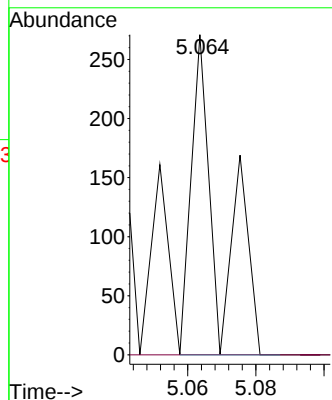
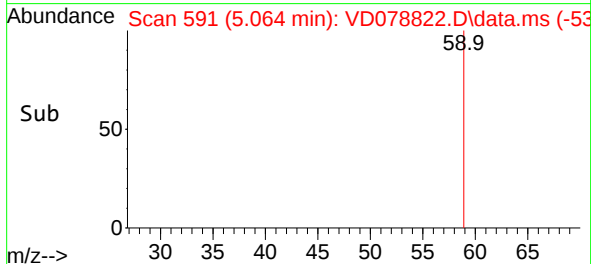


#11
Tert butyl alcohol
Concen: 2.43 ug/l
RT: 5.064 min Scan# 591
Delta R.T. 0.006 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

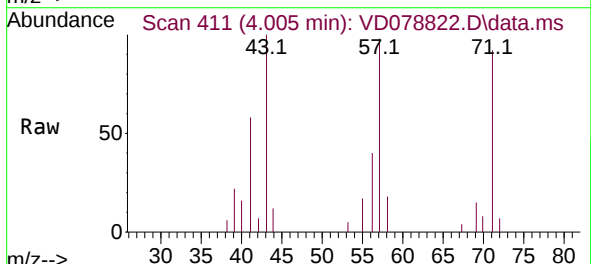
Instrument :
MSVOA_D
ClientSampleId :



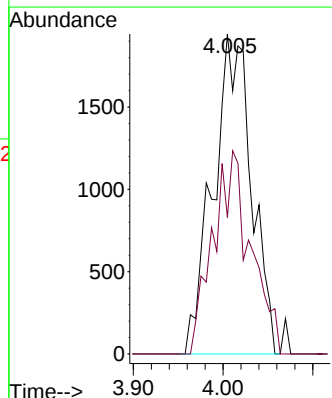
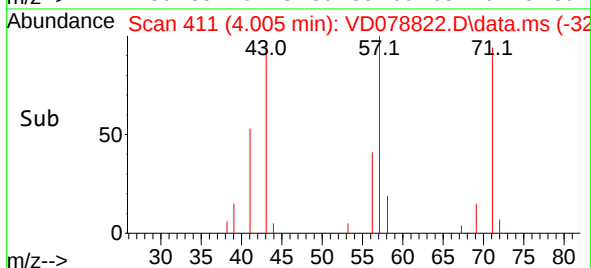
Tgt Ion: 59 Resp: 155
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.0#

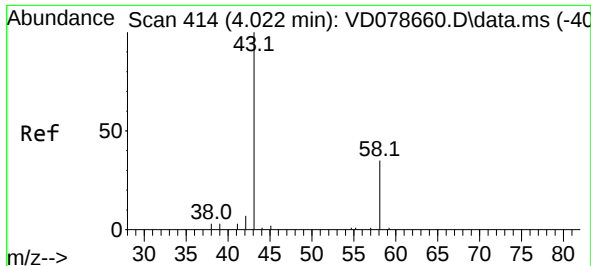


#13
Acrolein
Concen: 57.83 ug/l
RT: 4.005 min Scan# 411
Delta R.T. 0.206 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32



Tgt Ion: 56 Resp: 5779
Ion Ratio Lower Upper
56 100
55 62.1 54.9 82.3

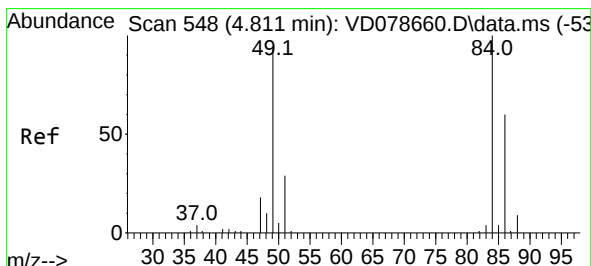
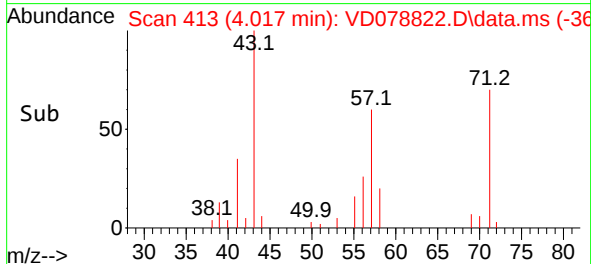
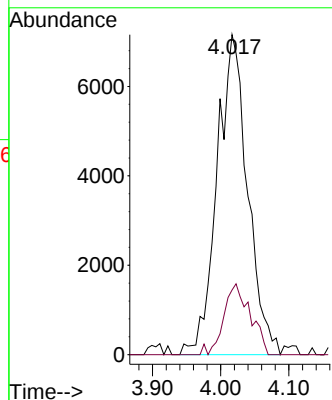
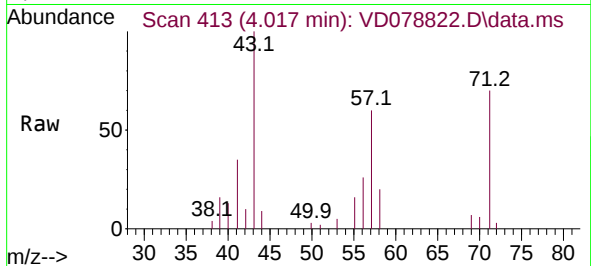




#16
Acetone
Concen: 80.91 ug/l
RT: 4.017 min Scan# 414
Delta R.T. -0.006 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

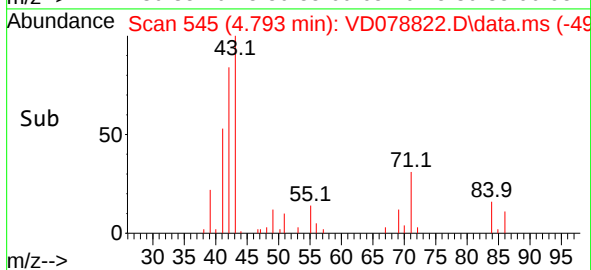
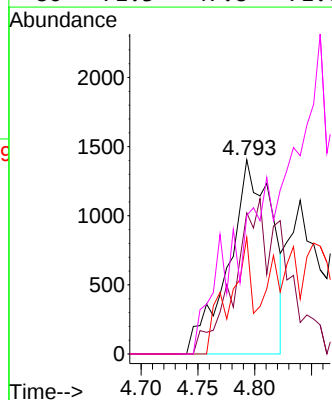
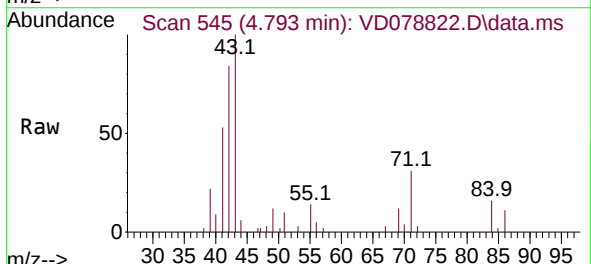
Instrument :
MSVOA_D
ClientSampleId :

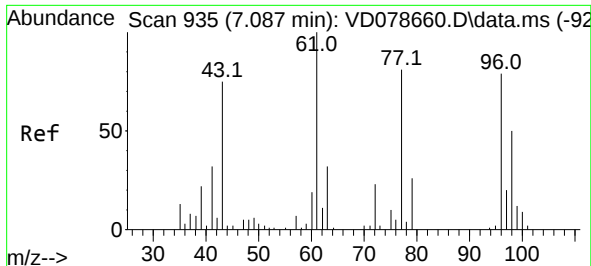
Tgt Ion: 43 Resp: 22305
Ion Ratio Lower Upper
43 100
58 20.2 28.2 42.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.793 min Scan# 545
Delta R.T. -0.018 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

Tgt Ion: 84 Resp: 3713
Ion Ratio Lower Upper
84 100
49 72.7 75.6 113.4#
51 60.0 23.4 35.0#
86 71.3 47.8 71.6

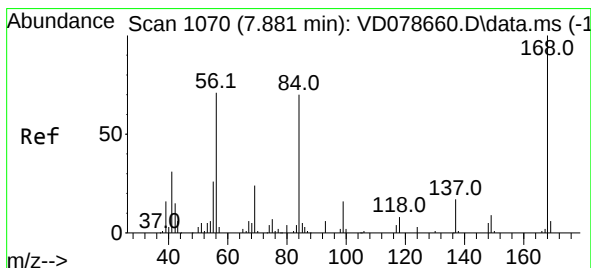
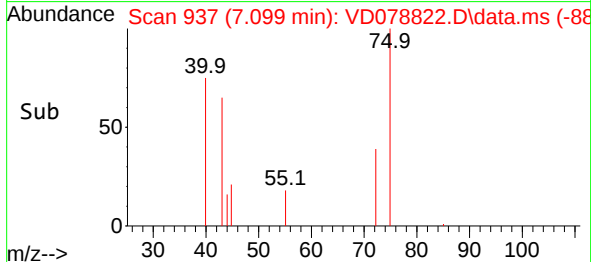
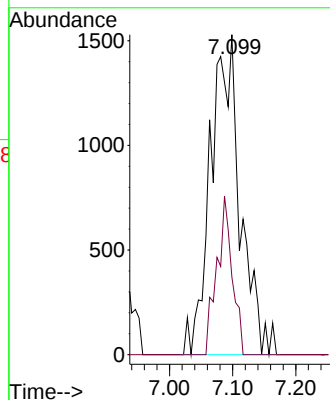
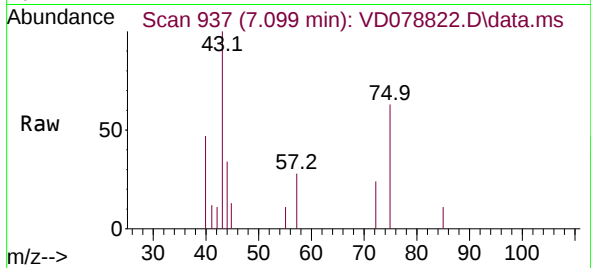




#25
2-Butanone
Concen: 13.62 ug/l
RT: 7.099 min Scan# 91
Delta R.T. 0.012 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

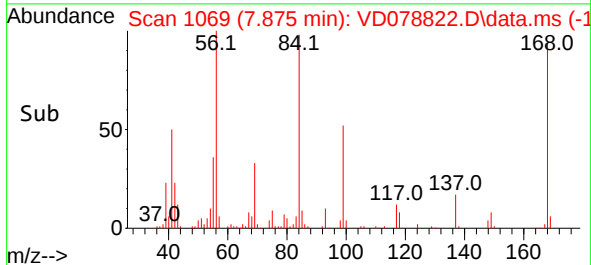
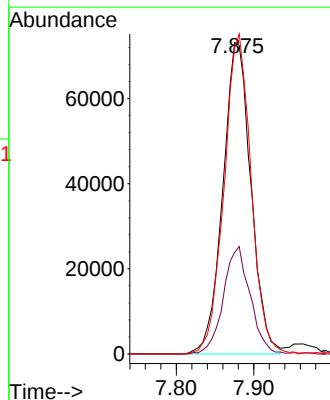
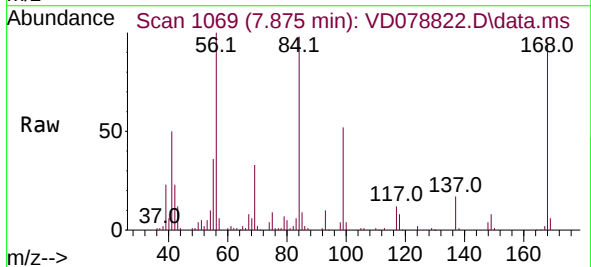
Instrument :
MSVOA_D
ClientSampleId :

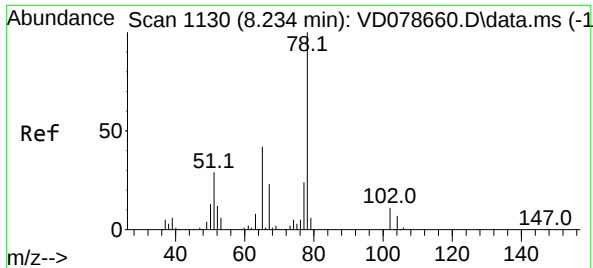
Tgt Ion: 43 Resp: 4993
Ion Ratio Lower Upper
43 100
72 24.3 25.0 37.6#



#31
Cyclohexane
Concen: 76.98 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.006 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

Tgt Ion: 56 Resp: 184458
Ion Ratio Lower Upper
56 100
69 32.6 26.6 40.0
84 98.2 79.4 119.2





#33

1,2-Dichloroethane-d4

Concen: 50.53 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VD078822.D

Acq: 16 Apr 2024 14:32

Instrument :

MSVOA_D

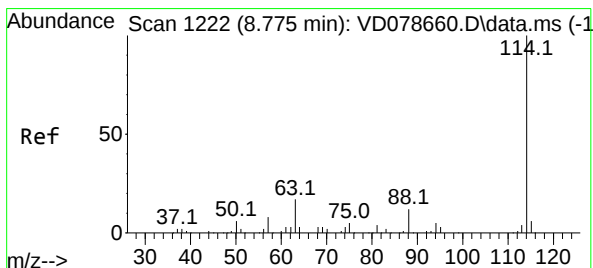
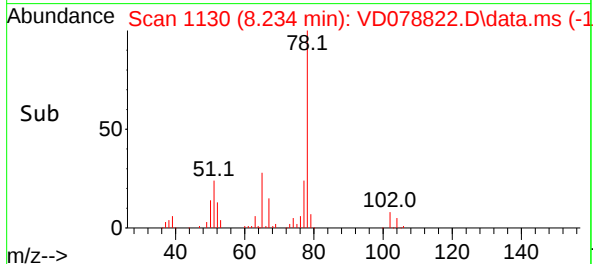
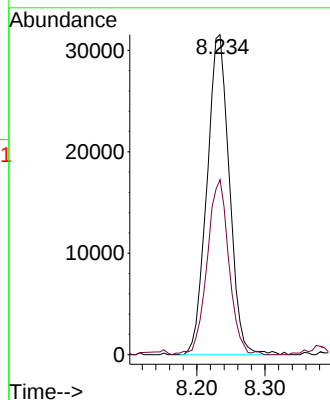
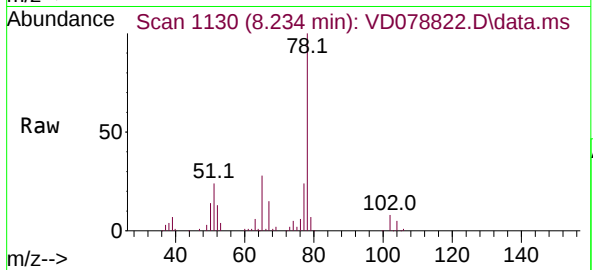
ClientSampleId :

Tgt Ion: 65 Resp: 72026

Ion Ratio Lower Upper

65 100

67 52.9 0.0 110.2



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. 0.000 min

Lab File: VD078822.D

Acq: 16 Apr 2024 14:32

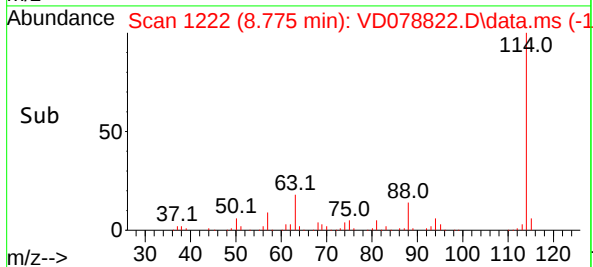
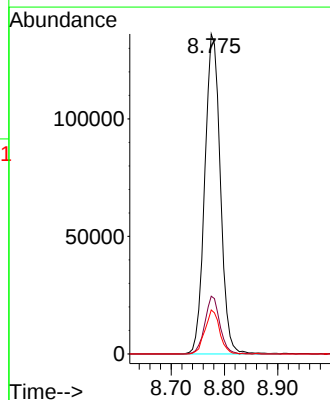
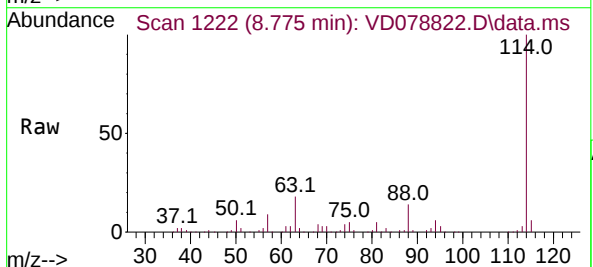
Tgt Ion:114 Resp: 276178

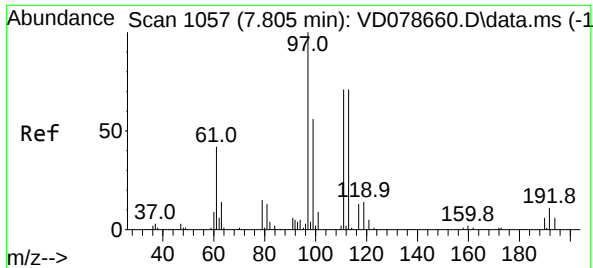
Ion Ratio Lower Upper

114 100

63 18.1 0.0 33.4

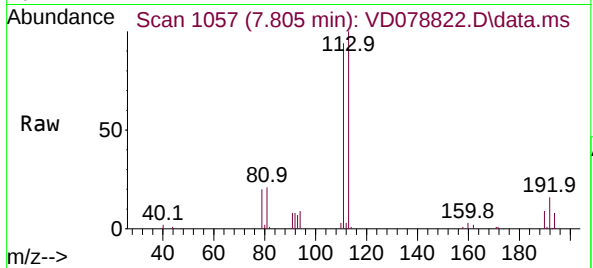
88 13.7 0.0 24.6



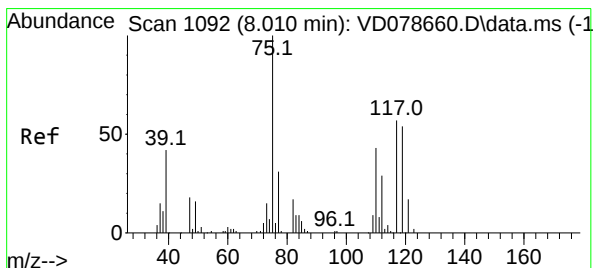
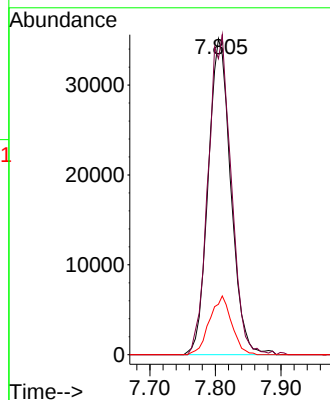
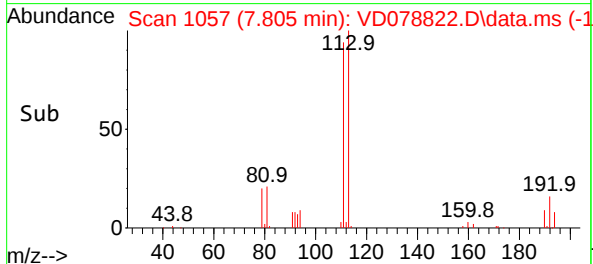


#35
Dibromofluoromethane
Concen: 47.46 ug/l
RT: 7.805 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

Instrument :
MSVOA_D
ClientSampleId :

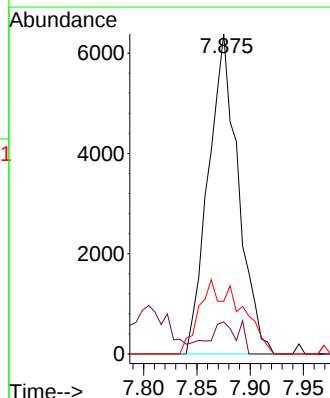
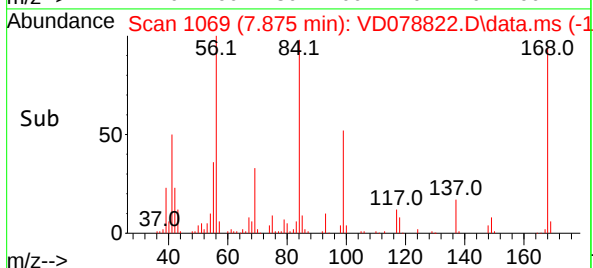
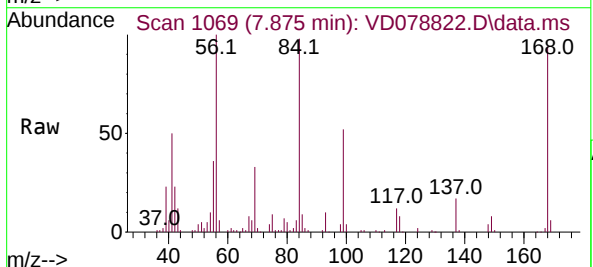


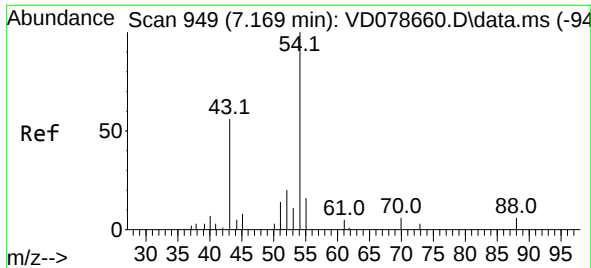
Tgt Ion:113 Resp: 84395
Ion Ratio Lower Upper
113 100
111 103.3 81.9 122.9
192 18.1 15.4 23.0



#36
1,1-Dichloropropene
Concen: 4.83 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.135 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

Tgt Ion: 75 Resp: 12452
Ion Ratio Lower Upper
75 100
110 9.8 19.1 57.1#
77 0.0 25.4 38.2#





#37

Ethyl Acetate

Concen: 5.92 ug/l

RT: 7.099 min Scan# 91

Delta R.T. -0.071 min

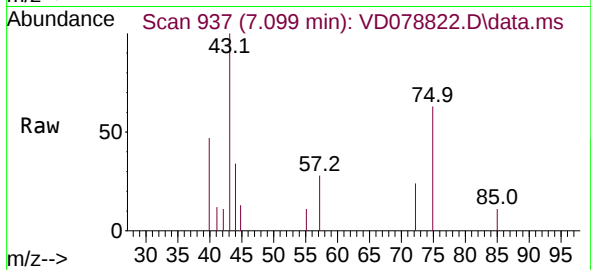
Lab File: VD078822.D

Acq: 16 Apr 2024 14:32

Instrument :

MSVOA_D

ClientSampleId :



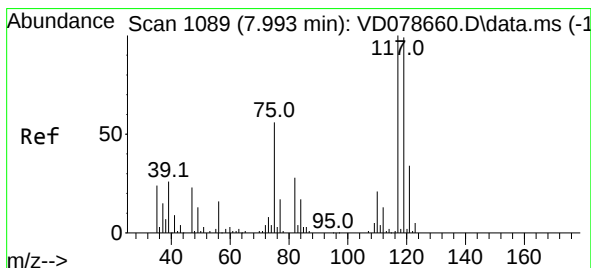
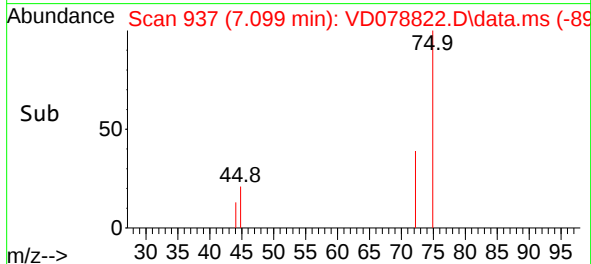
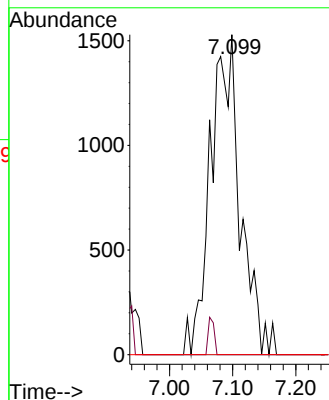
Tgt Ion: 43 Resp: 4993

Ion Ratio Lower Upper

43 100

61 0.0 14.6 21.8#

70 0.0 9.4 14.0#



#38

Carbon Tetrachloride

Concen: 5.76 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.118 min

Lab File: VD078822.D

Acq: 16 Apr 2024 14:32

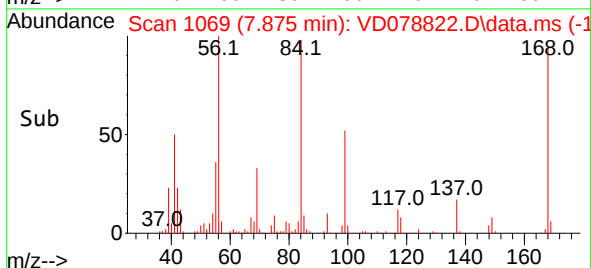
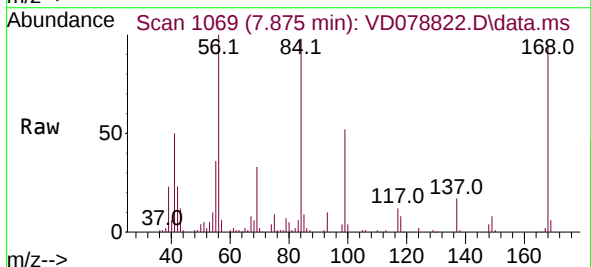
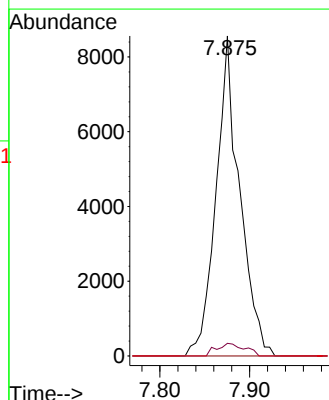
Tgt Ion: 117 Resp: 15675

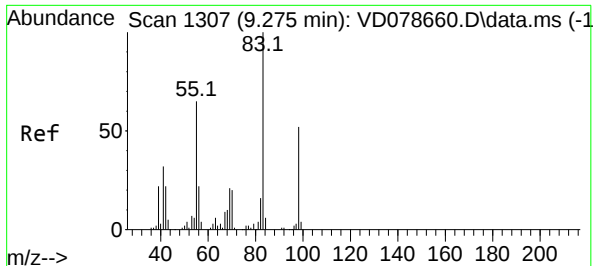
Ion Ratio Lower Upper

117 100

119 3.9 79.2 118.8#

121 0.0 26.8 40.2#





#39

Methylcyclohexane

Concen: 51.21 ug/l

RT: 9.275 min Scan# 11307

Delta R.T. 0.000 min

Lab File: VD078822.D

Acq: 16 Apr 2024 14:32

Instrument :

MSVOA_D

ClientSampleId :

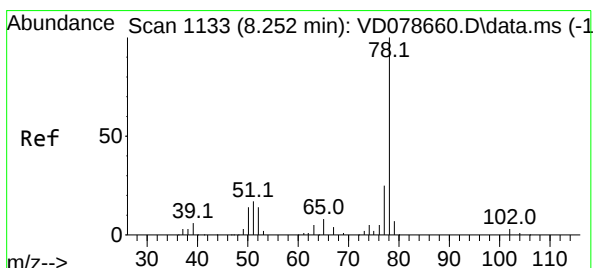
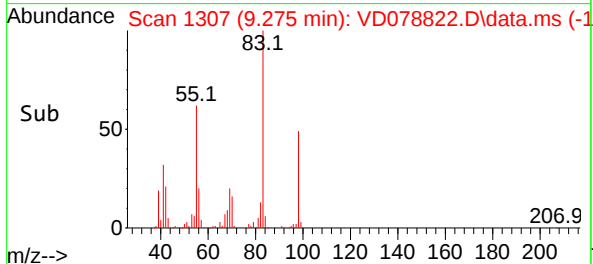
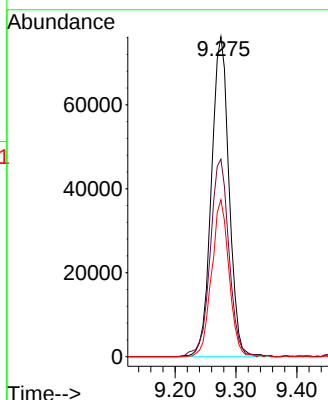
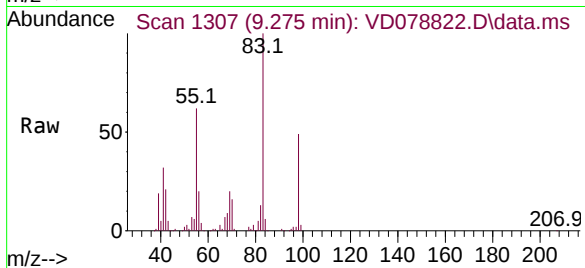
Tgt Ion: 83 Resp: 153253

Ion Ratio Lower Upper

83 100

55 61.7 51.7 77.5

98 49.0 41.4 62.0



#40

Benzene

Concen: 63.84 ug/l

RT: 8.252 min Scan# 1133

Delta R.T. 0.000 min

Lab File: VD078822.D

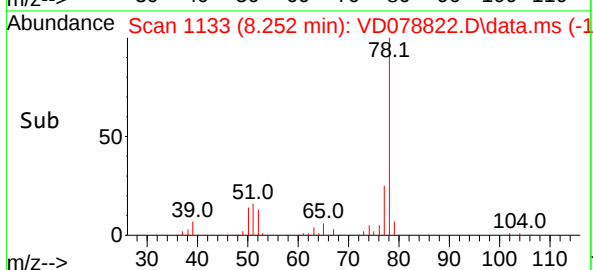
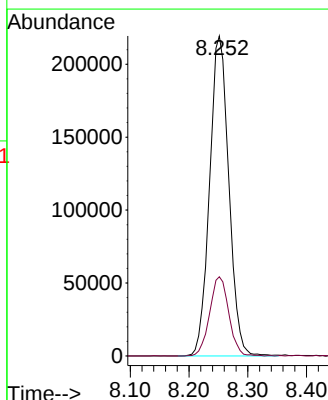
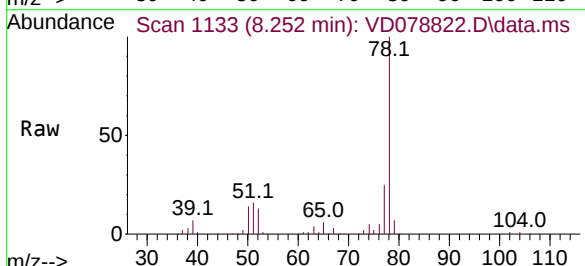
Acq: 16 Apr 2024 14:32

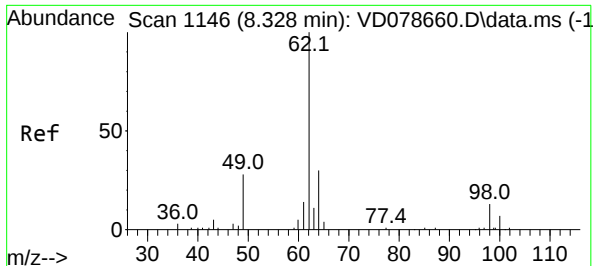
Tgt Ion: 78 Resp: 497924

Ion Ratio Lower Upper

78 100

77 24.7 20.4 30.6





#42

1,2-Dichloroethane

Concen: 2.18 ug/l

RT: 8.252 min Scan# 1146

Delta R.T. -0.076 min

Lab File: VD078822.D

Acq: 16 Apr 2024 14:32

Instrument :

MSVOA_D

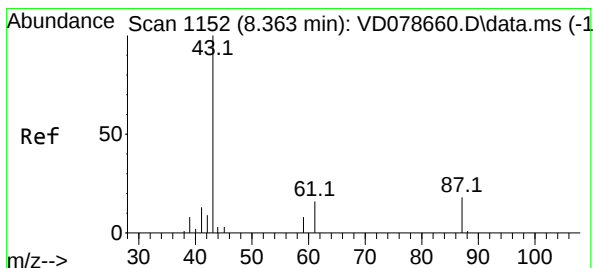
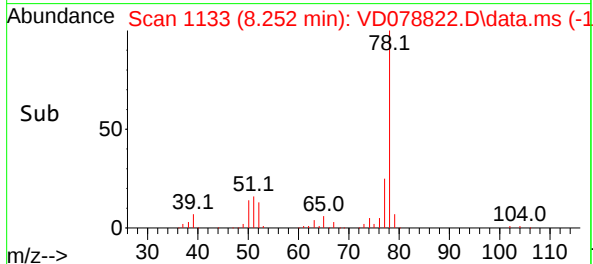
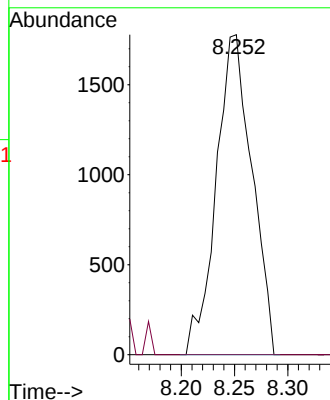
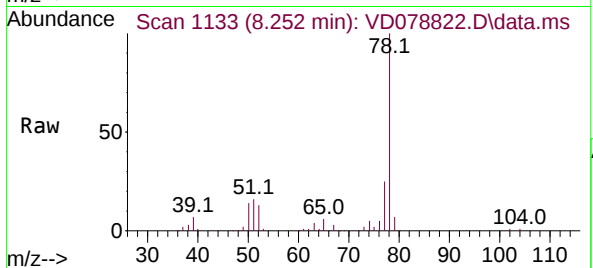
ClientSampleId :

Tgt Ion: 62 Resp: 4154

Ion Ratio Lower Upper

62 100

98 0.0 0.0 23.8



#43

Isopropyl Acetate

Concen: 1.23 ug/l

RT: 8.363 min Scan# 1152

Delta R.T. 0.000 min

Lab File: VD078822.D

Acq: 16 Apr 2024 14:32

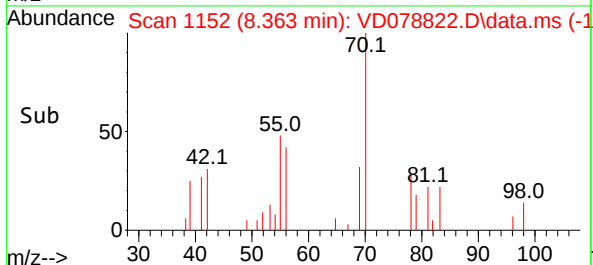
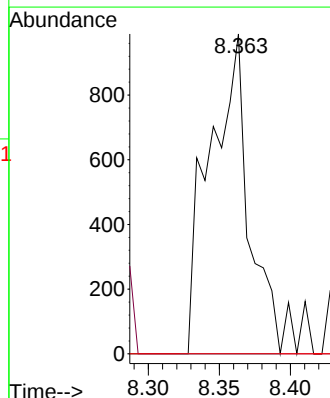
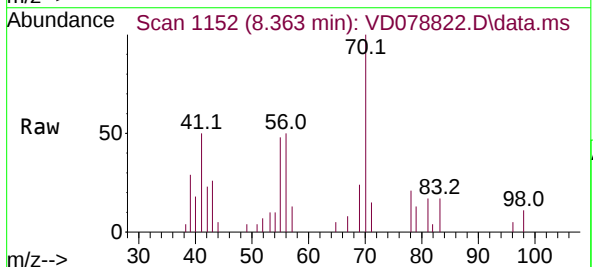
Tgt Ion: 43 Resp: 1888

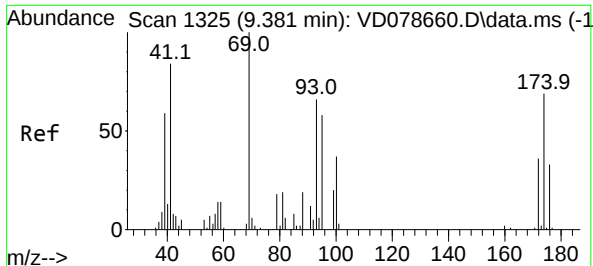
Ion Ratio Lower Upper

43 100

61 0.0 30.1 45.1#

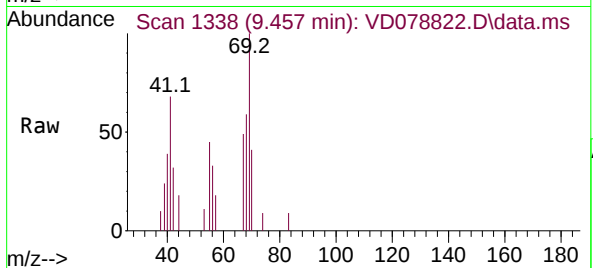
87 0.0 14.4 21.6#



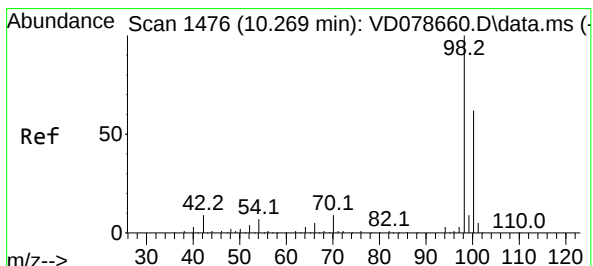
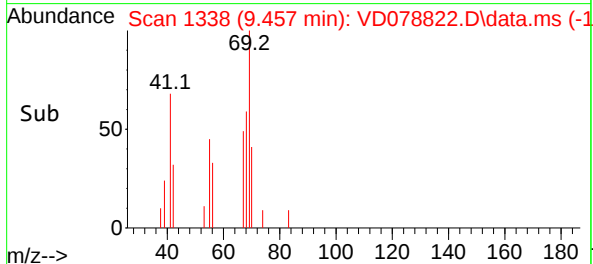
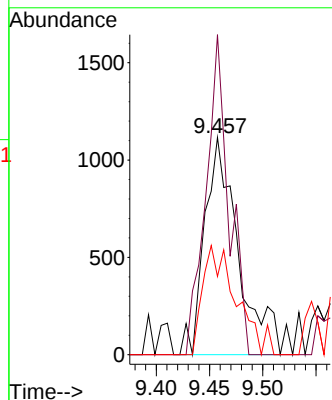


#48
Methyl methacrylate
Concen: 3.29 ug/l
RT: 9.457 min Scan# 11
Delta R.T. 0.077 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

Instrument :
MSVOA_D
ClientSampleId :

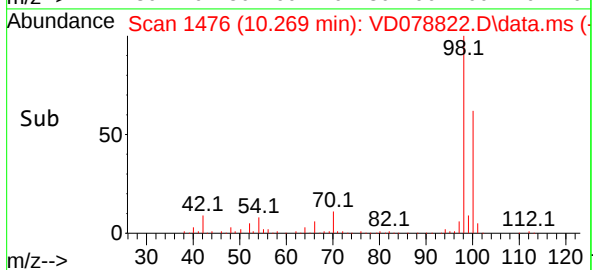
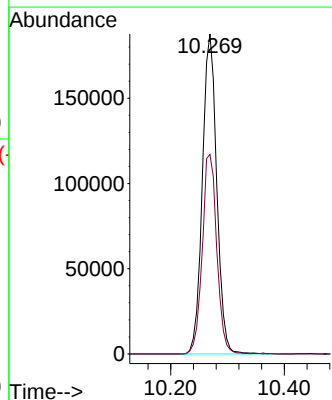
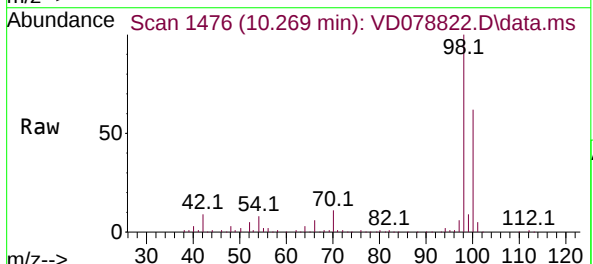


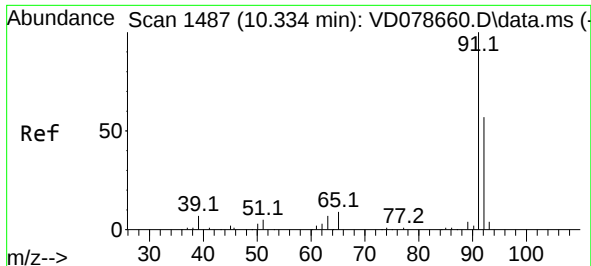
Tgt Ion:	41	Resp:	2458
Ion	Ratio	Lower	Upper
41	100		
69	101.4	88.3	132.5
39	50.2	46.6	69.8



#50
Toluene-d8
Concen: 50.33 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

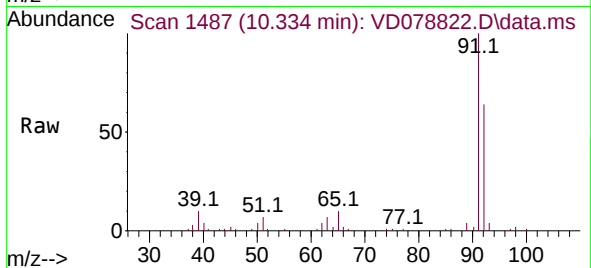
Tgt Ion:	98	Resp:	329133
Ion	Ratio	Lower	Upper
98	100		
100	63.0	50.5	75.7



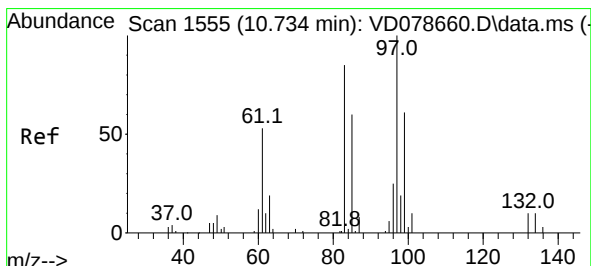
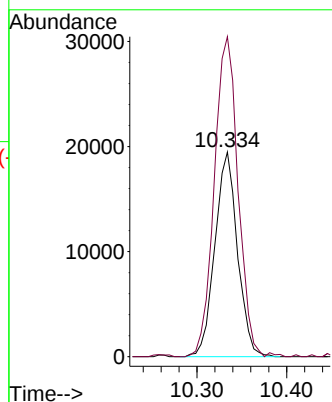
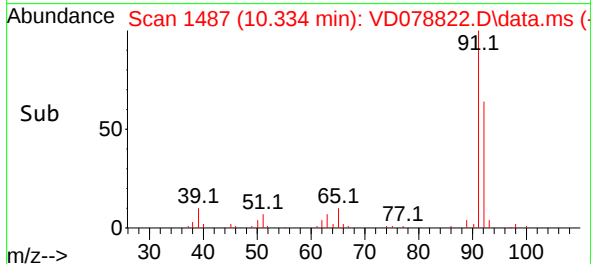


#52
Toluene
Concen: 6.77 ug/l
RT: 10.334 min Scan# 1487
Delta R.T. 0.000 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

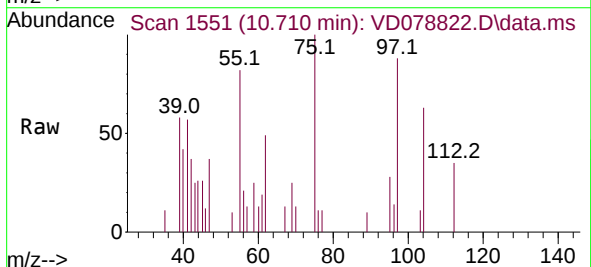
Instrument :
MSVOA_D
ClientSampleId :



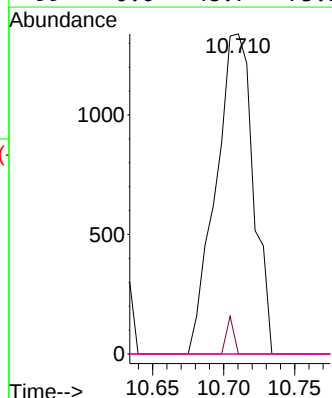
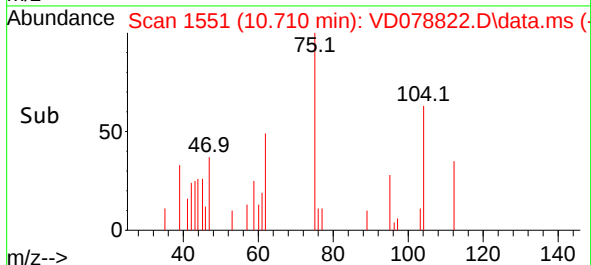
Tgt Ion: 92 Resp: 34002
Ion Ratio Lower Upper
92 100
91 164.1 136.6 205.0

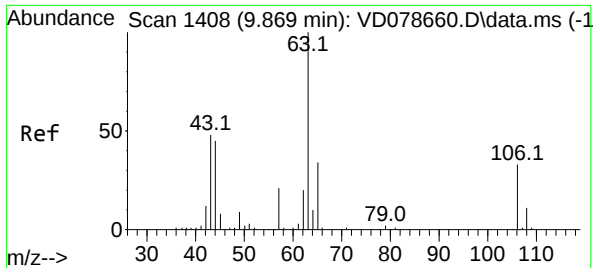


#55
1,1,2-Trichloroethane
Concen: 1.66 ug/l
RT: 10.710 min Scan# 1551
Delta R.T. -0.023 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32



Tgt Ion: 97 Resp: 2460
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 0.0 48.2 72.2#
99 0.0 48.7 73.1#

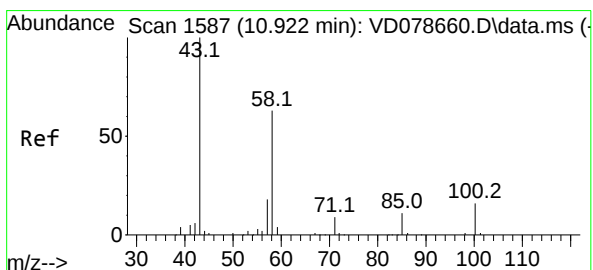
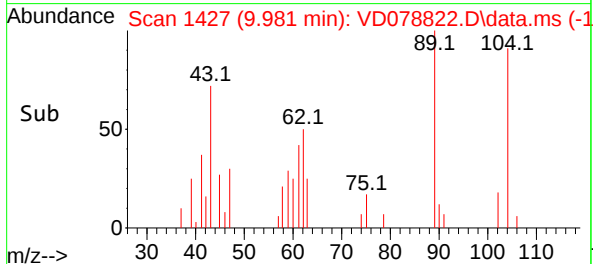
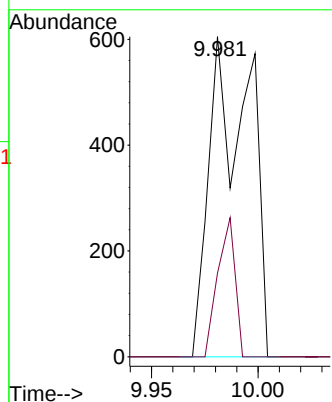
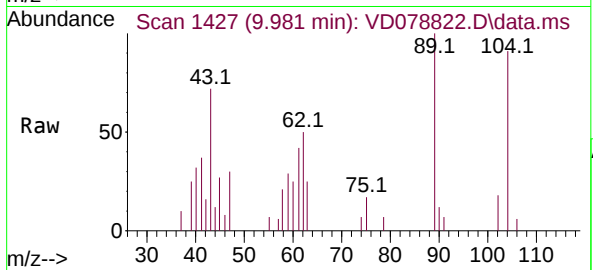




#58
2-Chloroethyl Vinyl ether
Concen: 1.20 ug/l
RT: 9.981 min Scan# 1408
Delta R.T. 0.112 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

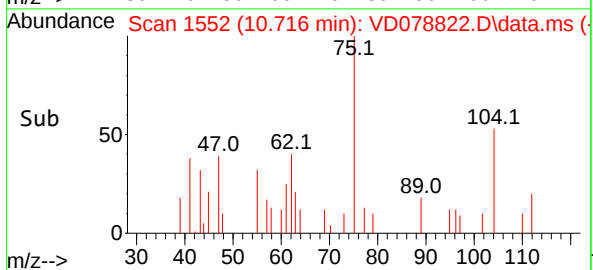
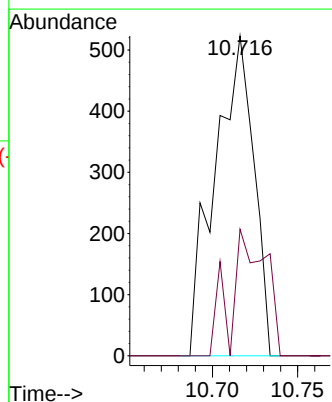
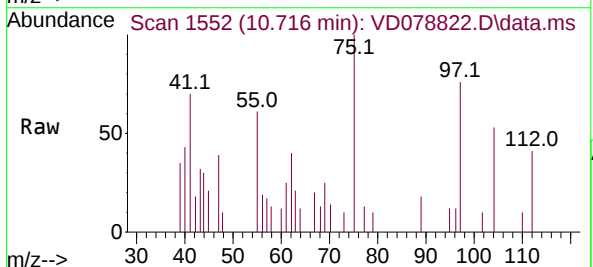
Instrument :
MSVOA_D
ClientSampleId :

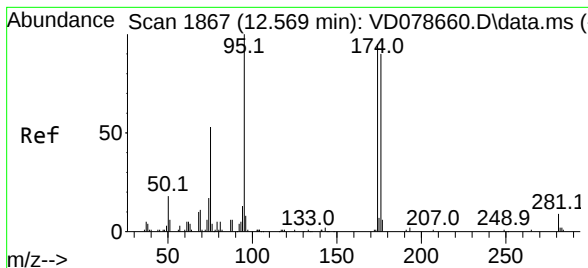
Tgt Ion: 63 Resp: 785
Ion Ratio Lower Upper
63 100
106 19.0 25.2 37.8#



#59
2-Hexanone
Concen: 1.40 ug/l
RT: 10.716 min Scan# 1552
Delta R.T. -0.206 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

Tgt Ion: 43 Resp: 831
Ion Ratio Lower Upper
43 100
58 35.5 31.5 94.5

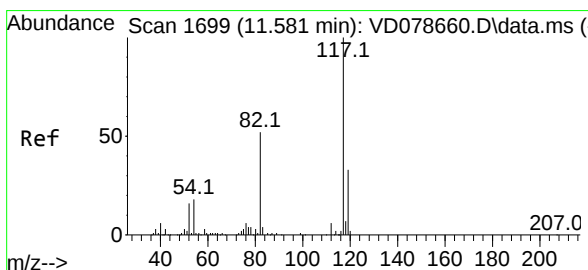
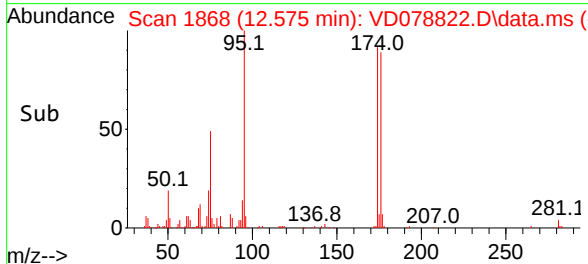
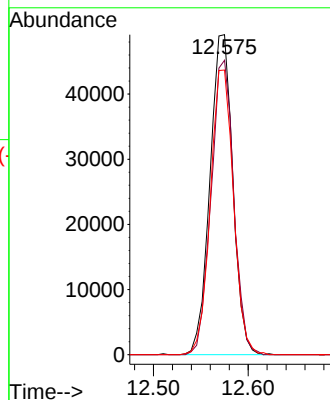
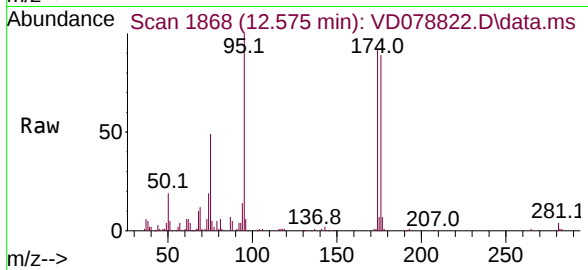




#62
4-Bromofluorobenzene
Concen: 43.00 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

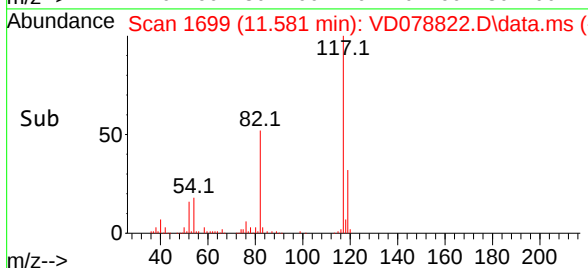
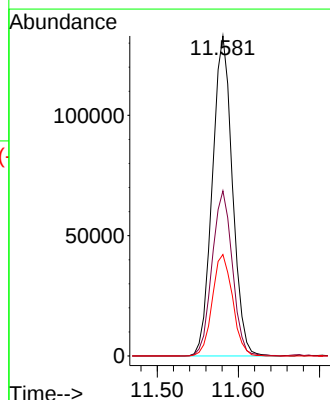
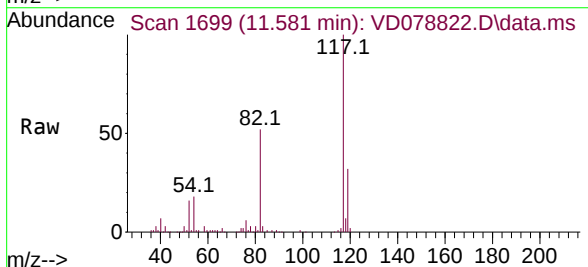
Instrument :
MSVOA_D
ClientSampleId :

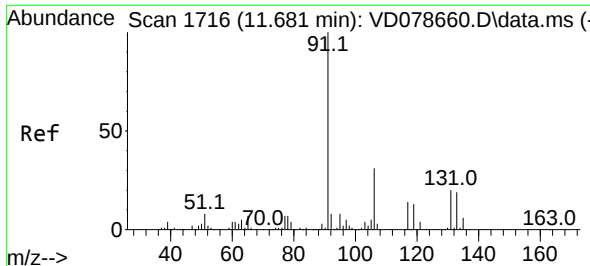
Tgt Ion: 95 Resp: 82276
Ion Ratio Lower Upper
95 100
174 91.0 0.0 195.2
176 89.7 0.0 188.2



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

Tgt Ion: 117 Resp: 228461
Ion Ratio Lower Upper
117 100
82 51.6 41.4 62.2
119 31.7 26.5 39.7

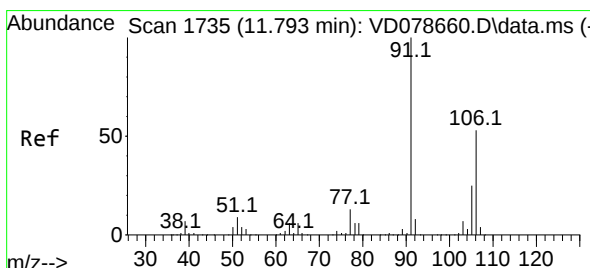
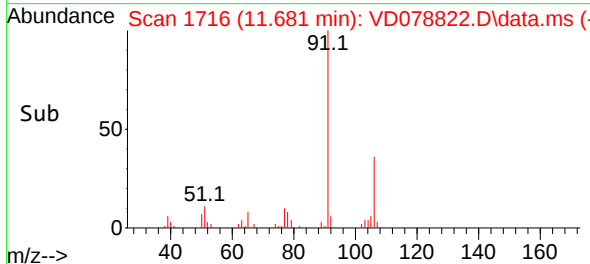
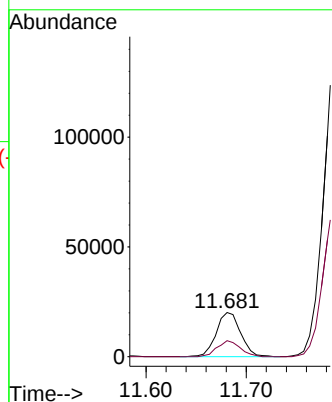
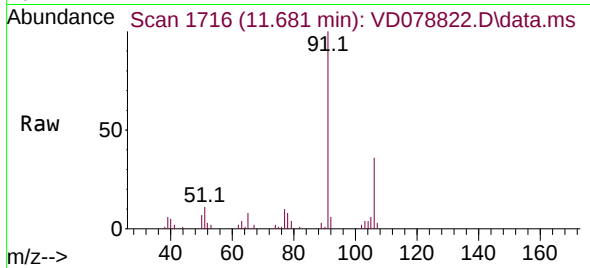




#67
Ethyl Benzene
Concen: 4.17 ug/l
RT: 11.681 min Scan# 1716
Delta R.T. 0.000 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

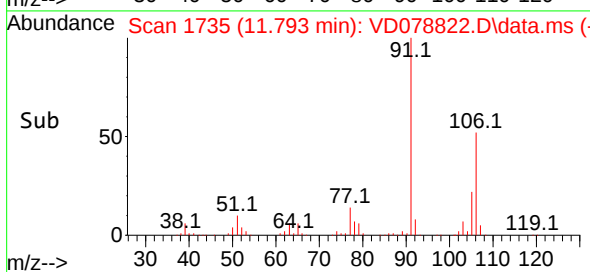
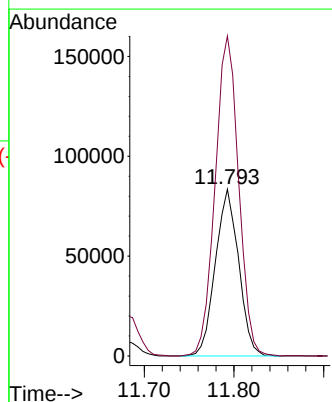
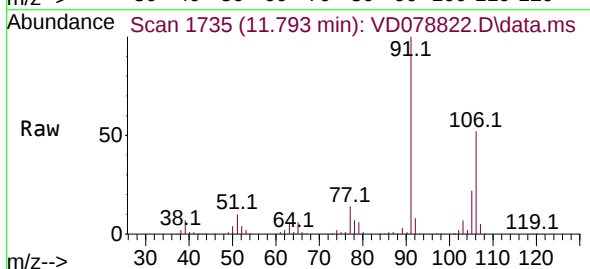
Instrument :
MSVOA_D
ClientSampleId :

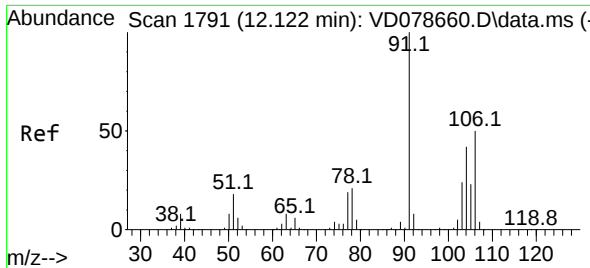
Tgt Ion: 91 Resp: 33940
Ion Ratio Lower Upper
91 100
106 36.4 24.5 36.7



#68
m/p-Xylenes
Concen: 45.54 ug/l
RT: 11.793 min Scan# 1735
Delta R.T. 0.000 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

Tgt Ion: 106 Resp: 150451
Ion Ratio Lower Upper
106 100
91 193.4 154.4 231.6

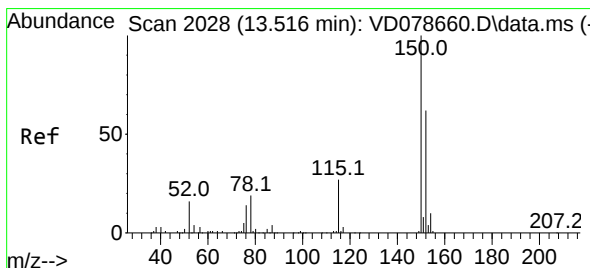
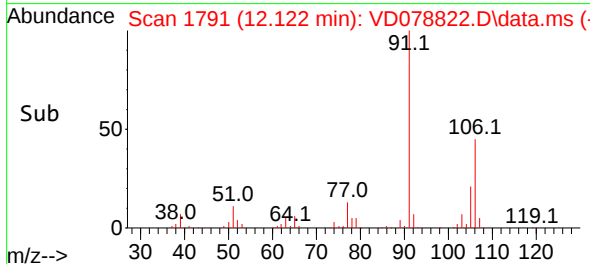
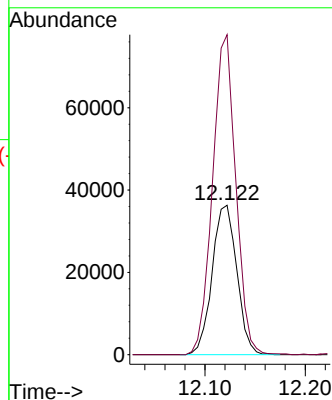
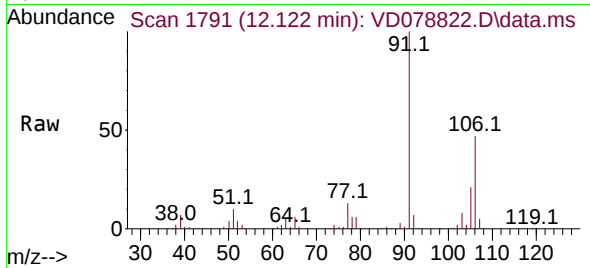




#69
o-Xylene
Concen: 20.30 ug/l
RT: 12.122 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

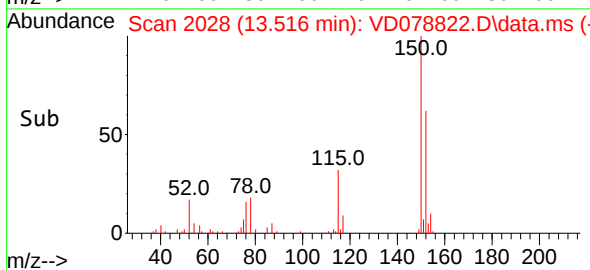
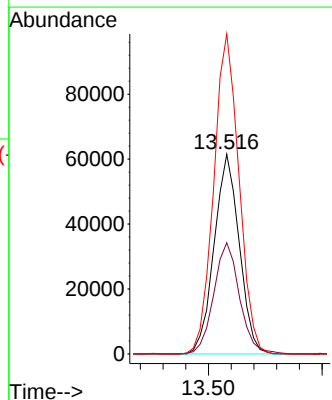
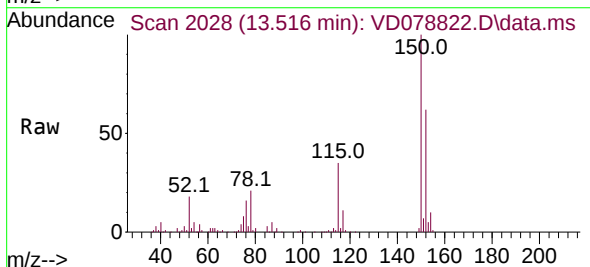
Instrument :
MSVOA_D
ClientSampleId :

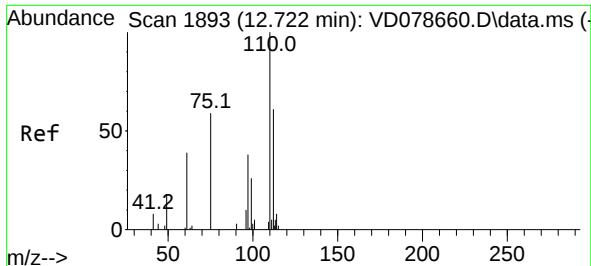
Tgt Ion:106 Resp: 62061
Ion Ratio Lower Upper
106 100
91 201.3 99.6 298.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. 0.000 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

Tgt Ion:152 Resp: 94284
Ion Ratio Lower Upper
152 100
115 57.4 27.1 81.2
150 161.1 0.0 350.2

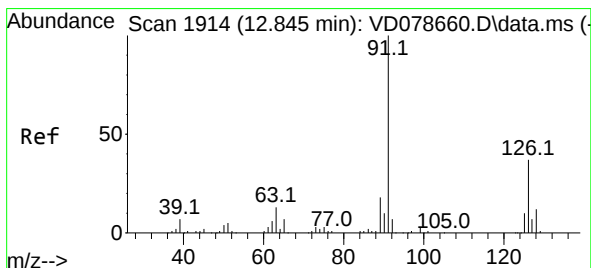
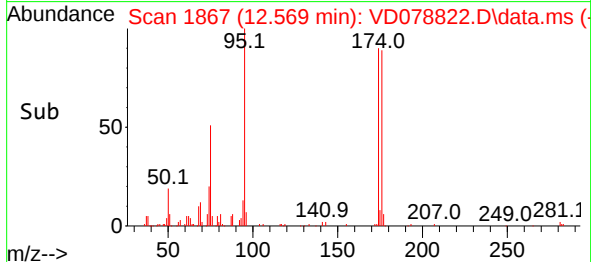
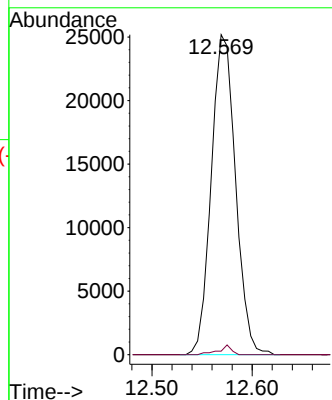
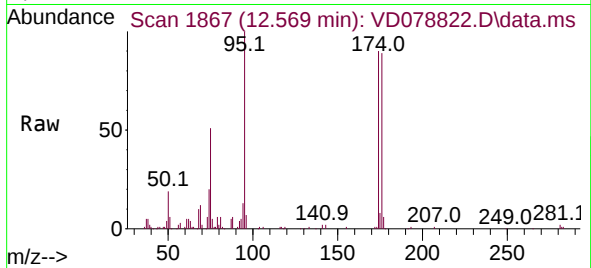




#76
1,2,3-Trichloropropane
Concen: 58.24 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.153 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

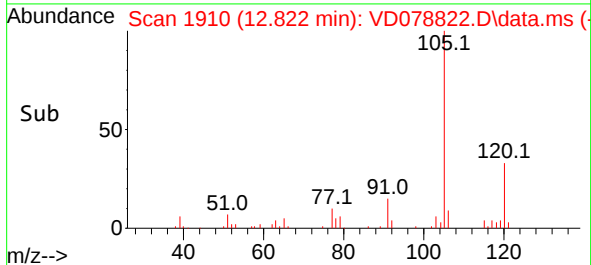
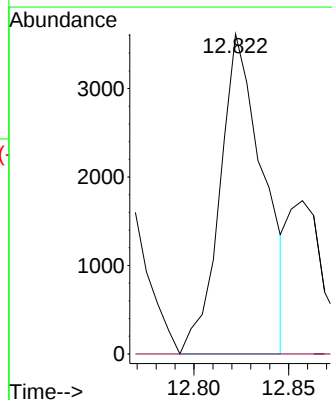
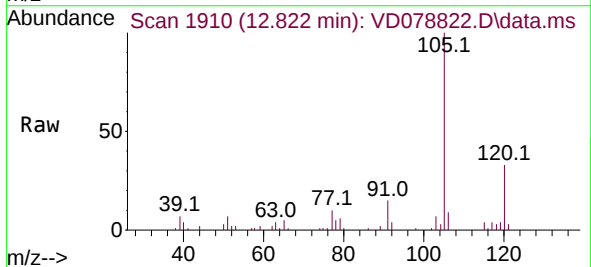
Instrument :
MSVOA_D
ClientSampleId :

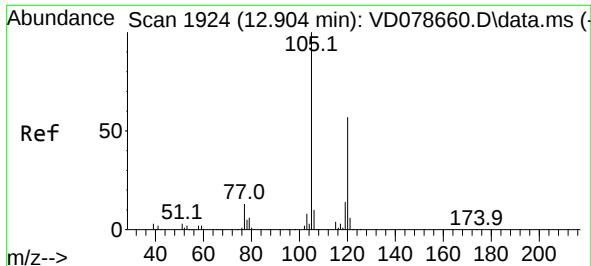
Tgt Ion: 75 Resp: 42302
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#



#79
2-Chlorotoluene
Concen: 1.39 ug/l
RT: 12.822 min Scan# 1910
Delta R.T. -0.023 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

Tgt Ion: 91 Resp: 5769
Ion Ratio Lower Upper
91 100
126 0.0 19.4 58.1#

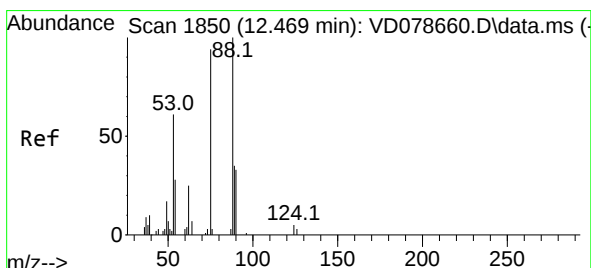
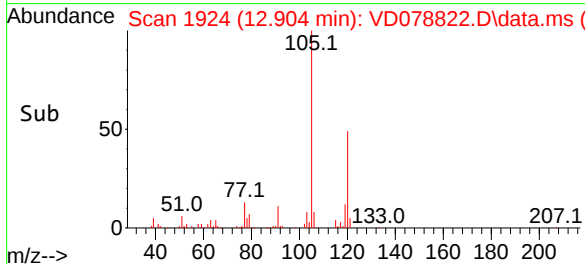
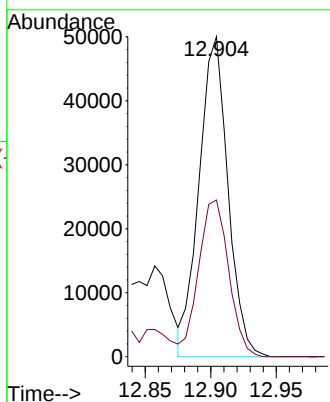
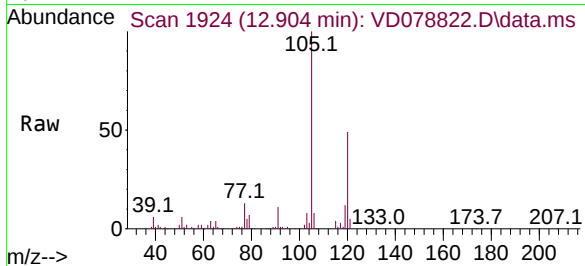




#80
1,3,5-Trimethylbenzene
Concen: 14.93 ug/l
RT: 12.904 min Scan# 1924
Delta R.T. 0.000 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

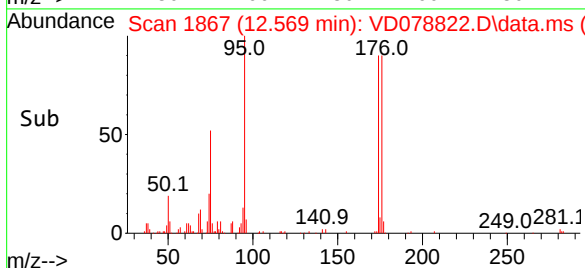
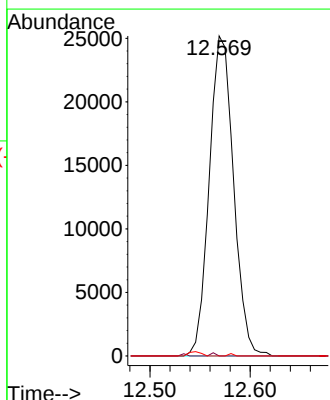
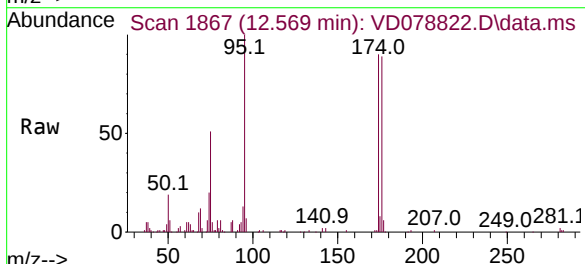
Instrument :
MSVOA_D
ClientSampleId :

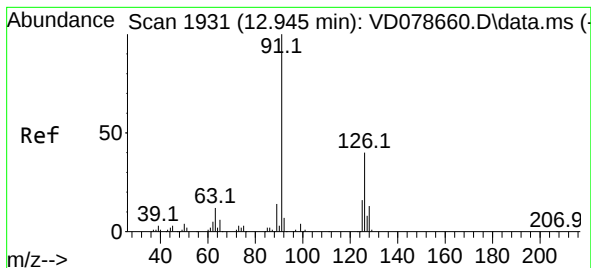
Tgt Ion:105 Resp: 76660
Ion Ratio Lower Upper
105 100
120 51.1 25.9 77.7



#81
trans-1,4-Dichloro-2-butene
Concen: 122.07 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.100 min
Lab File: VD078822.D
Acq: 16 Apr 2024 14:32

Tgt Ion: 75 Resp: 42302
Ion Ratio Lower Upper
75 100
53 0.2 61.0 91.6#
89 0.2 35.4 53.0#





#82

4-Chlorotoluene

Concen: 2.01 ug/l

RT: 12.898 min Scan# 1931

Delta R.T. -0.047 min

Lab File: VD078822.D

Acq: 16 Apr 2024 14:32

Instrument :

MSVOA_D

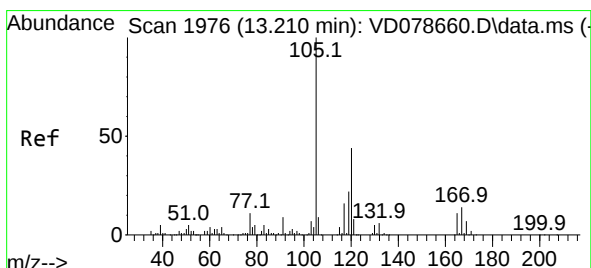
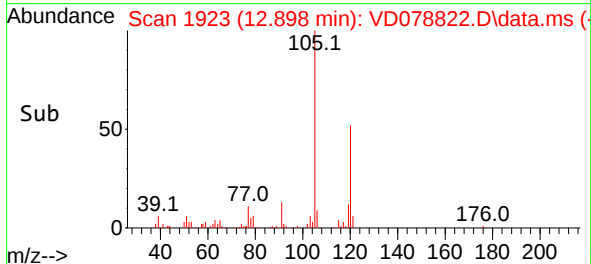
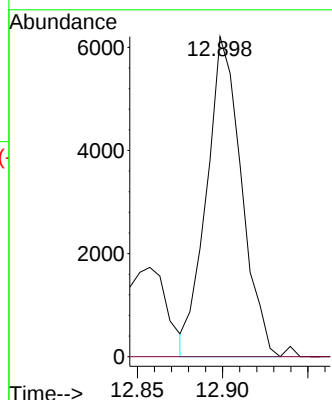
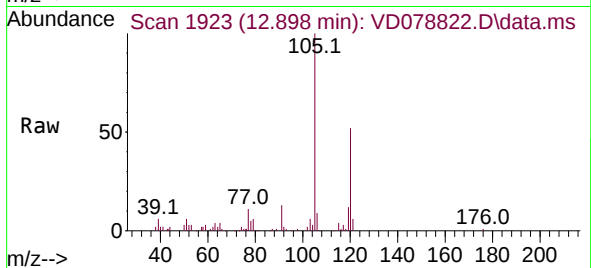
ClientSampleId :

Tgt Ion: 91 Resp: 8821

Ion Ratio Lower Upper

91 100

126 0.0 18.9 56.5#



#84

1,2,4-Trimethylbenzene

Concen: 18.79 ug/l

RT: 13.210 min Scan# 1976

Delta R.T. 0.000 min

Lab File: VD078822.D

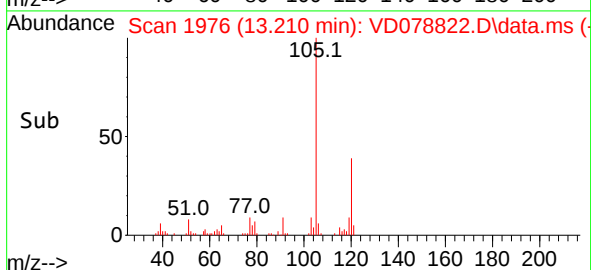
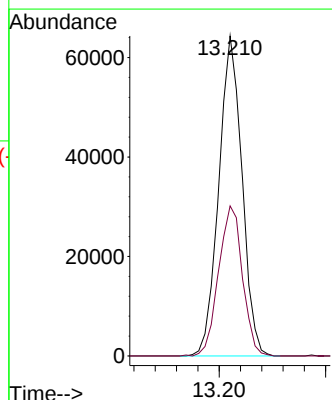
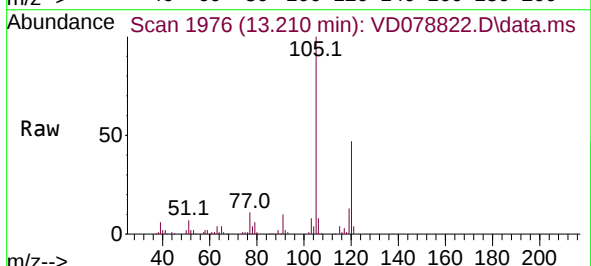
Acq: 16 Apr 2024 14:32

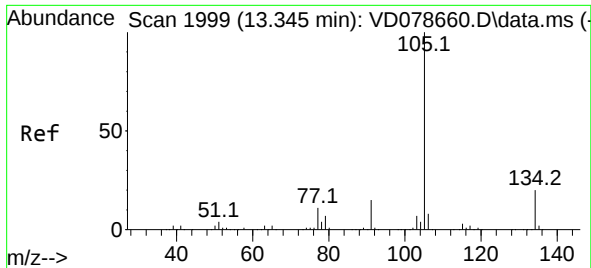
Tgt Ion: 105 Resp: 97204

Ion Ratio Lower Upper

105 100

120 48.1 23.1 69.2





#85

sec-Butylbenzene

Concen: 14.51 ug/l

RT: 13.210 min Scan# 19

Delta R.T. -0.135 min

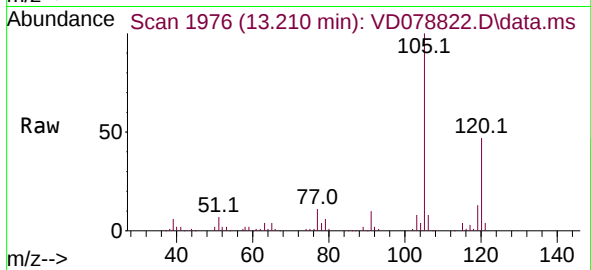
Lab File: VD078822.D

Acq: 16 Apr 2024 14:32

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion:105 Resp: 97204

Ion Ratio Lower Upper

105 100

134 0.0 10.4 31.2#

