

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD011524\
 Data File : VD078161.D
 Acq On : 15 Jan 2024 13:56
 Operator : RP/MD
 Sample : P1139-03
 Misc : 4.96G/5.0ml/MSVOA_D/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jan 16 00:35:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D010824S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 09 01:29:14 2024
 Response via : Initial Calibration

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

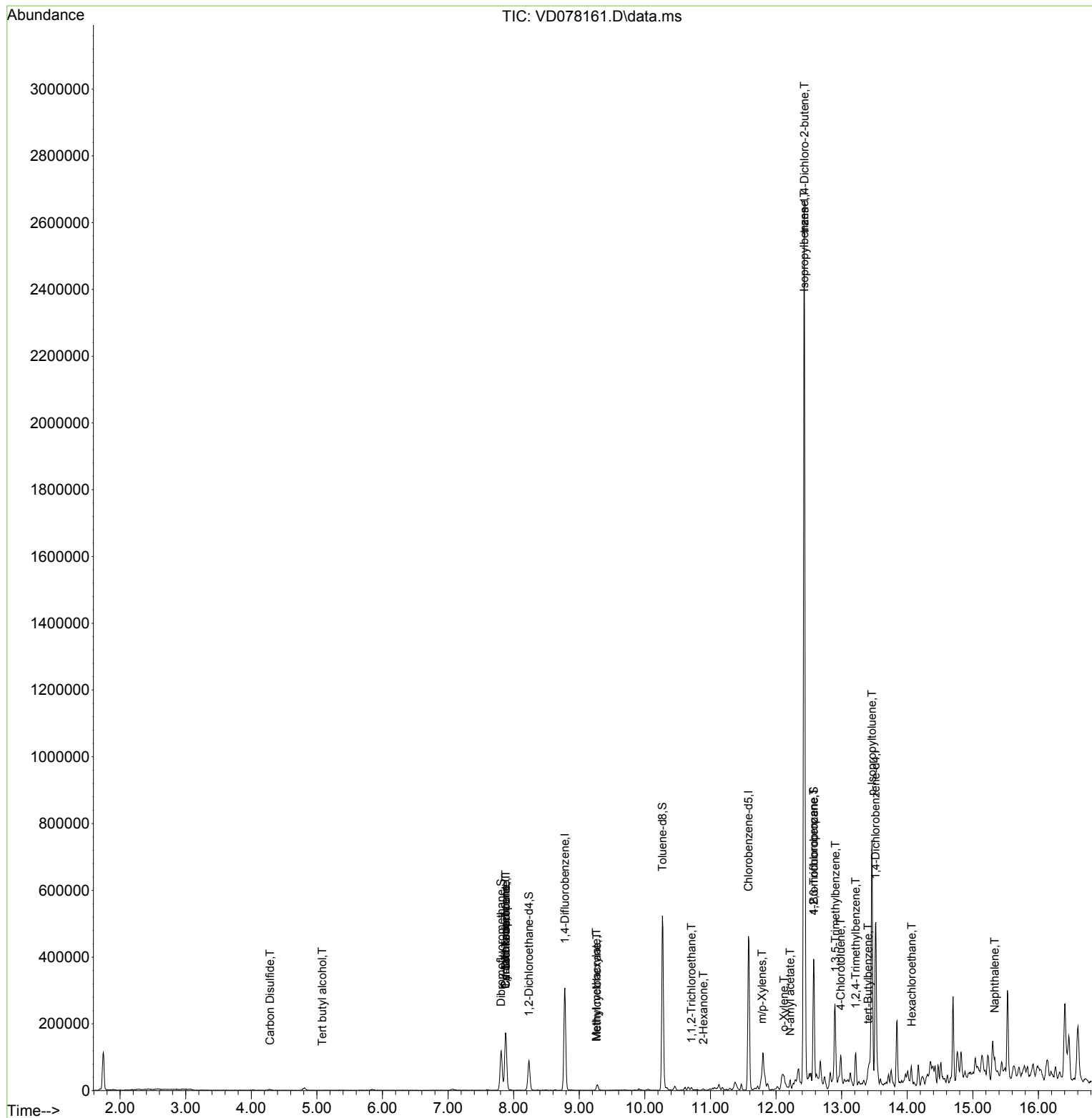
Internal Standards						
1) Pentafluorobenzene	7.875	168	131014	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.781	114	270671	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	272045	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	126748	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	66817	48.443	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	96.880%
35) Dibromofluoromethane	7.810	113	84337	43.234	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	86.460%
50) Toluene-d8	10.269	98	344325	52.632	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	105.260%
62) 4-Bromofluorobenzene	12.575	95	114238	50.162	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	100.320%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.934	85	55	Below Cal	#	43
11) Tert butyl alcohol	5.081	59	77	1.096	ug/l #	73
16) Acetone	4.028	43	1588	Below Cal	#	84
17) Carbon Disulfide	4.287	76	5350	1.853	ug/l #	76
20) Methylene Chloride	4.816	84	4749	Below Cal	#	74
31) Cyclohexane	7.875	56	4288	2.055	ug/l #	57
36) 1,1-Dichloropropene	7.881	75	10124	3.844	ug/l #	51
38) Carbon Tetrachloride	7.881	117	13905	4.584	ug/l #	15
39) Methylcyclohexane	9.269	83	6583	2.271	ug/l	91
48) Methyl methacrylate	9.263	41	3140	2.843	ug/l #	38
55) 1,1,2-Trichloroethane	10.710	97	3252	2.067	ug/l #	20
59) 2-Hexanone	10.893	43	1800	2.312	ug/l #	16
68) m/p-Xylenes	11.787	106	9915	2.340	ug/l	81
69) o-Xylene	12.122	106	5378	1.371	ug/l	86
73) Isopropylbenzene	12.428	105	105319	10.450	ug/l #	59
74) N-amyl acetate	12.216	43	4582	2.486	ug/l #	56
76) 1,2,3-Trichloropropane	12.575	75	61783	49.510	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.904	105	27754	3.318	ug/l	88
81) trans-1,4-Dichloro-2-b...	12.434	75	3488	6.229	ug/l #	1
82) 4-Chlorotoluene	12.987	91	12131	1.735	ug/l #	36
83) tert-Butylbenzene	13.404	119	9780	1.336	ug/l #	47
84) 1,2,4-Trimethylbenzene	13.216	105	53088	6.393	ug/l	96
86) p-Isopropyltoluene	13.463	119	399484	42.052	ug/l	95
90) Hexachloroethane	14.069	117	2219	1.137	ug/l #	11
95) Naphthalene	15.334	128	42790	9.408	ug/l	98

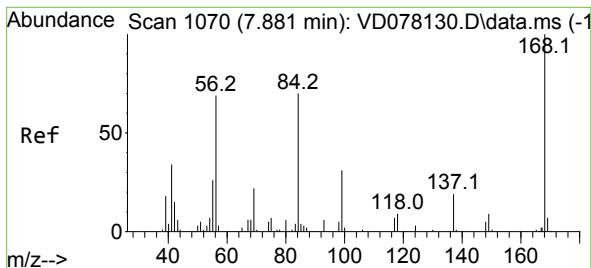
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 09 01:29:14 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.006 min

Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

Instrument :

MSVOA_D

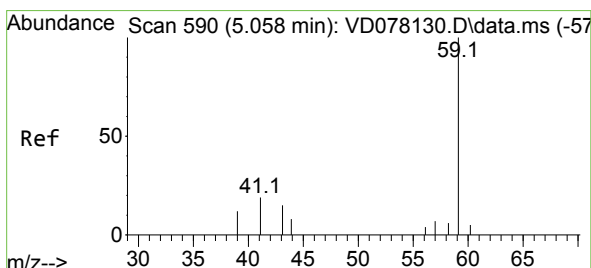
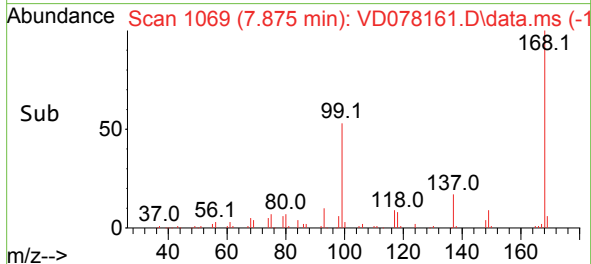
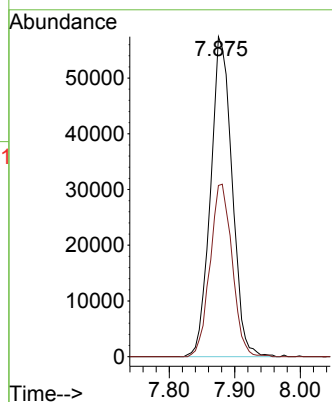
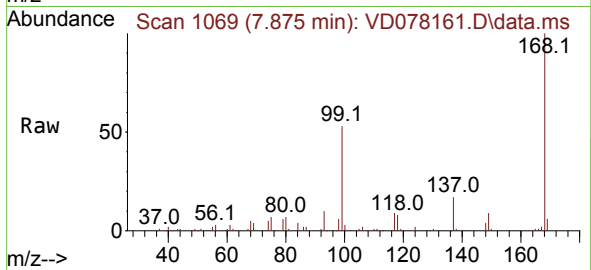
ClientSampleId :

Tgt Ion:168 Resp: 131014

Ion Ratio Lower Upper

168 100

99 53.5 36.7 55.1



#11

Tert butyl alcohol

Concen: 1.096 ug/l

RT: 5.081 min Scan# 594

Delta R.T. 0.023 min

Lab File: VD078161.D

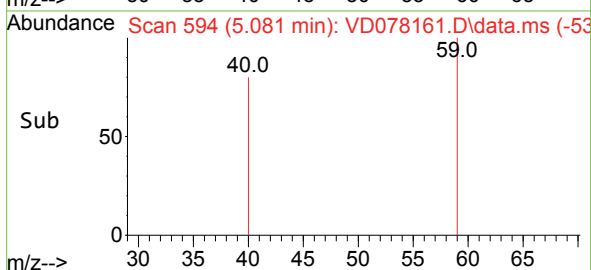
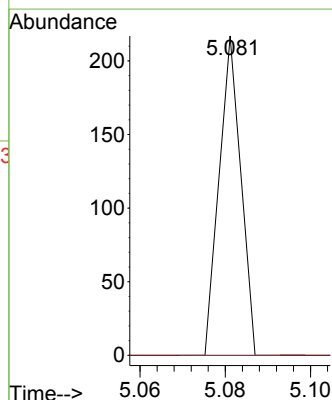
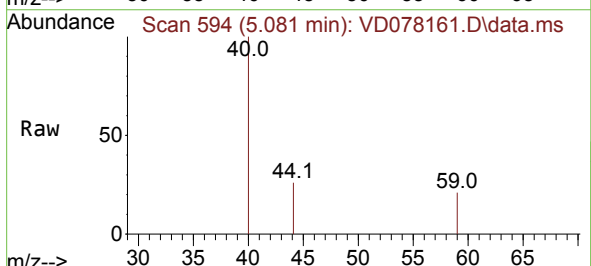
Acq: 15 Jan 2024 13:56

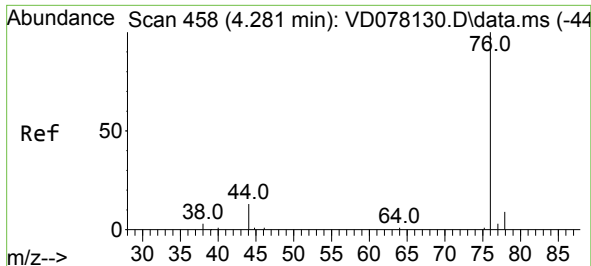
Tgt Ion: 59 Resp: 77

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#

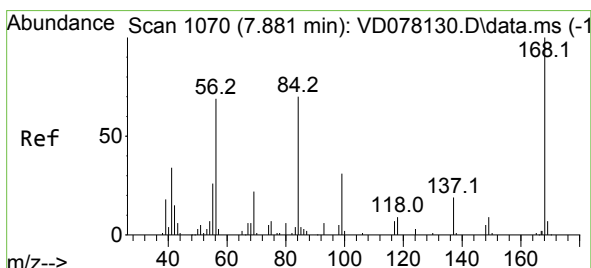
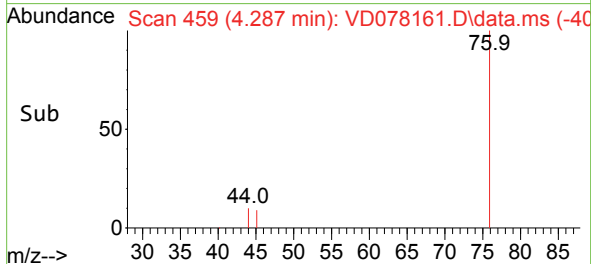
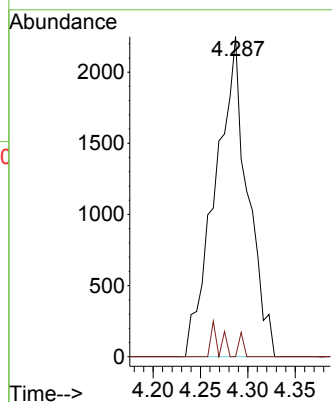
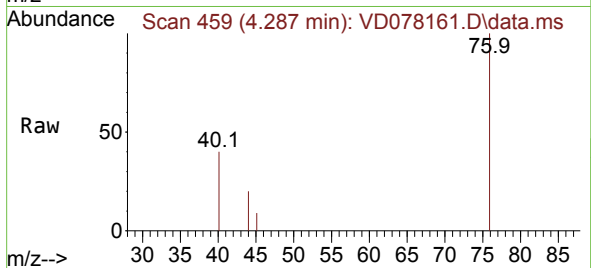




#17
Carbon Disulfide
Concen: 1.853 ug/l
RT: 4.287 min Scan# 41
Delta R.T. 0.006 min
Lab File: VD078161.D
Acq: 15 Jan 2024 13:56

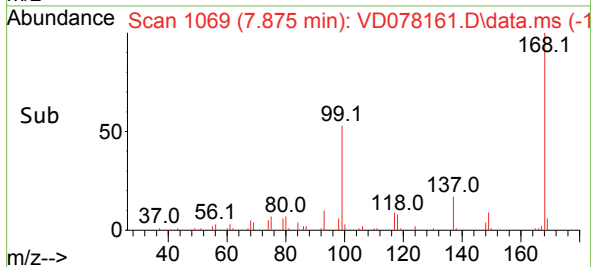
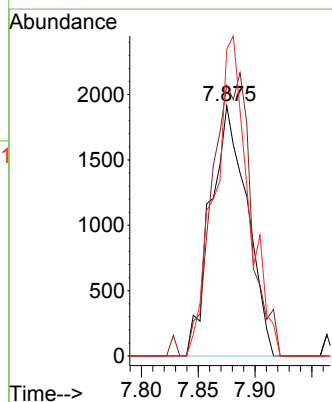
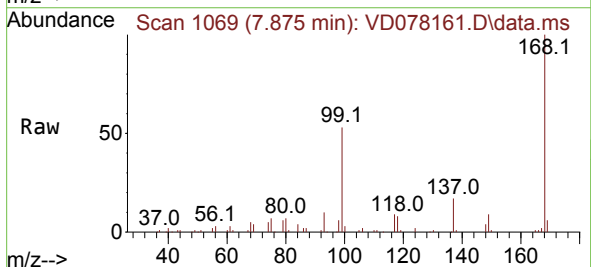
Instrument :
MSVOA_D
ClientSampleId :

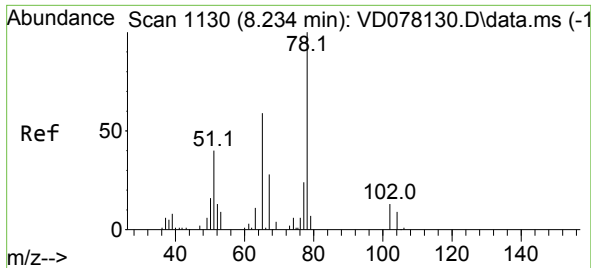
Tgt Ion: 76 Resp: 5350
Ion Ratio Lower Upper
76 100
78 0.0 6.8 10.2#



#31
Cyclohexane
Concen: 2.055 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. -0.006 min
Lab File: VD078161.D
Acq: 15 Jan 2024 13:56

Tgt Ion: 56 Resp: 4288
Ion Ratio Lower Upper
56 100
69 108.2 28.6 43.0#
84 122.7 84.8 127.2





#33

1,2-Dichloroethane-d4

Concen: 48.443 ug/l

RT: 8.234 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

Instrument :

MSVOA_D

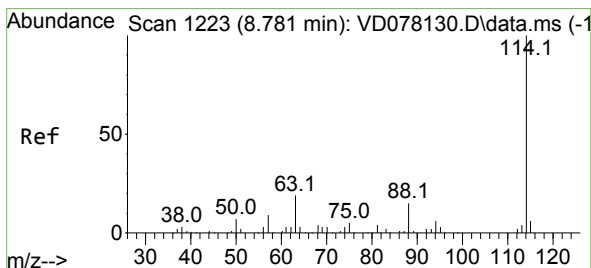
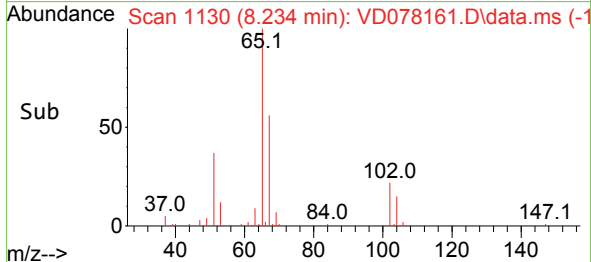
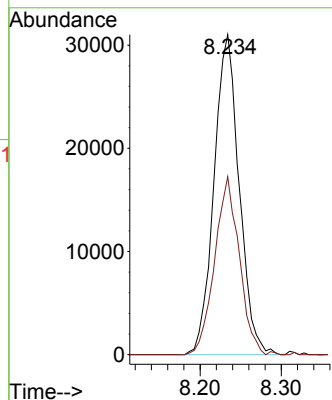
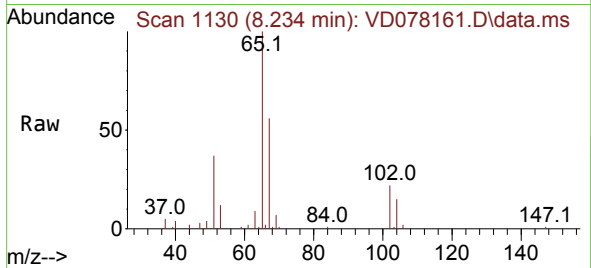
ClientSampleId :

Tgt Ion: 65 Resp: 66817

Ion Ratio Lower Upper

65 100

67 54.2 0.0 115.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.781 min Scan# 1223

Delta R.T. -0.000 min

Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

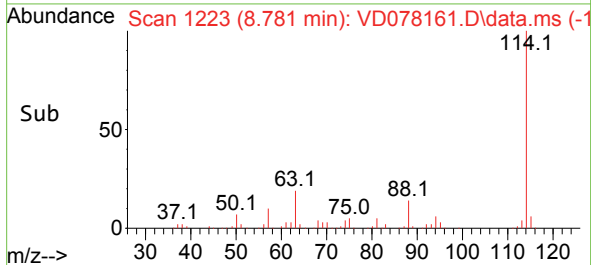
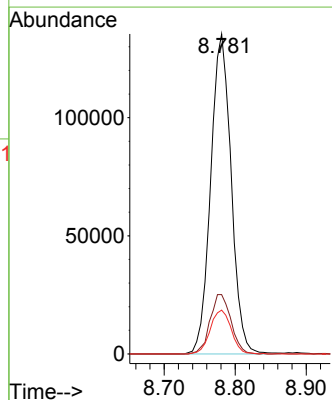
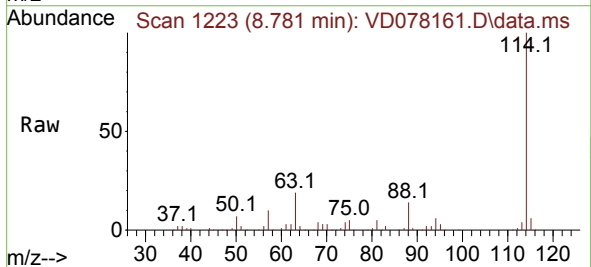
Tgt Ion: 114 Resp: 270671

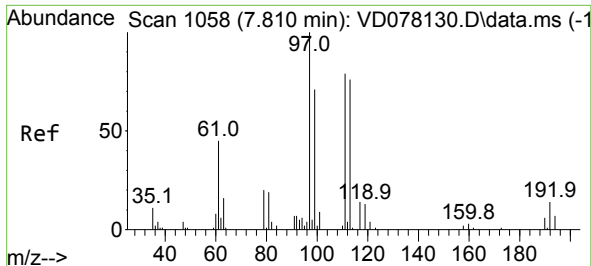
Ion Ratio Lower Upper

114 100

63 18.6 0.0 33.4

88 13.7 0.0 26.2





#35

Dibromofluoromethane

Concen: 43.234 ug/l

RT: 7.810 min Scan# 1058

Delta R.T. -0.000 min

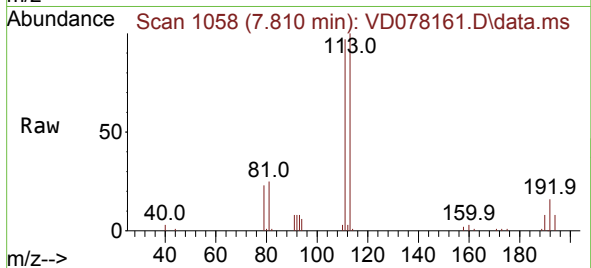
Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

Instrument :

MSVOA_D

ClientSampleId :



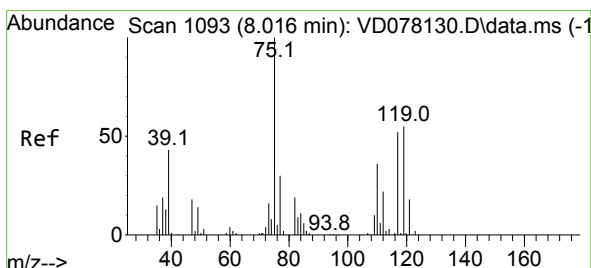
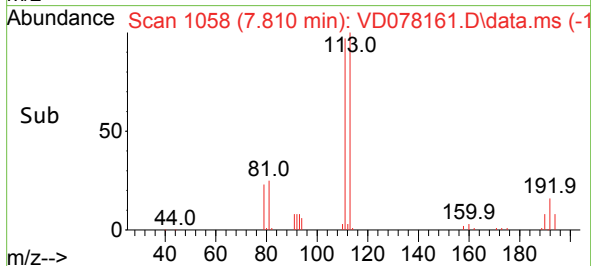
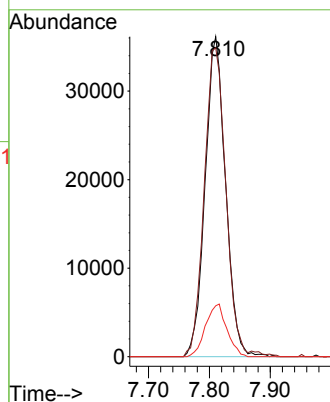
Tgt Ion:113 Resp: 84337

Ion Ratio Lower Upper

113 100

111 102.4 84.7 127.1

192 17.1 16.8 25.2



#36

1,1-Dichloropropene

Concen: 3.844 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.135 min

Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

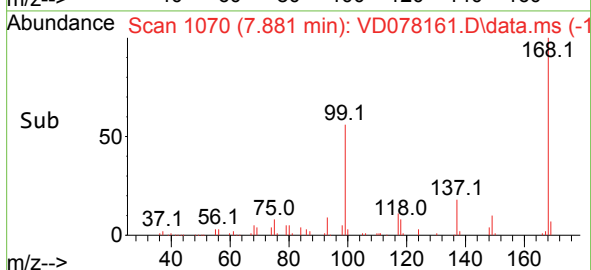
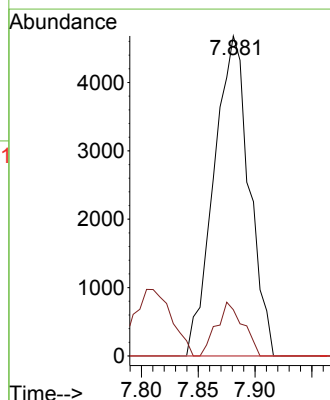
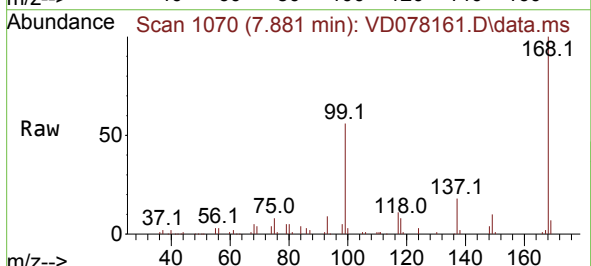
Tgt Ion: 75 Resp: 10124

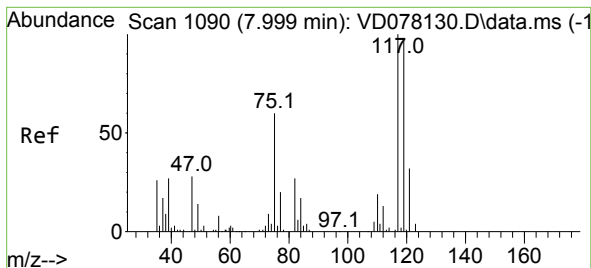
Ion Ratio Lower Upper

75 100

110 12.7 19.9 59.6#

77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 4.584 ug/l

RT: 7.881 min Scan# 1090

Delta R.T. -0.118 min

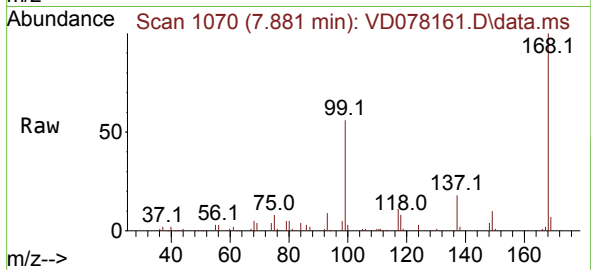
Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

Instrument :

MSVOA_D

ClientSampleId :



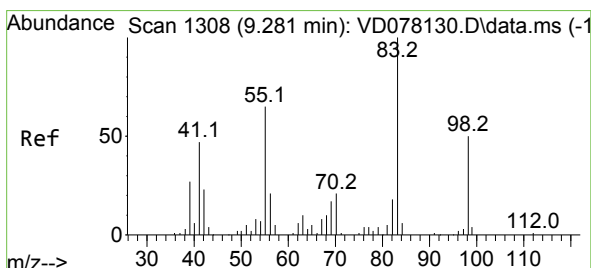
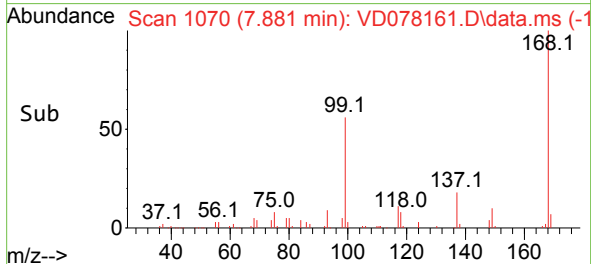
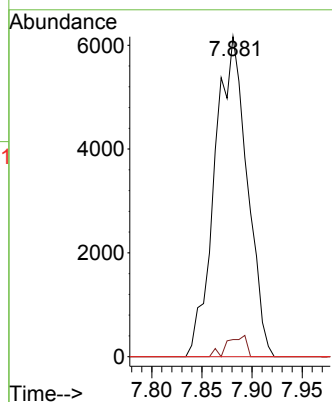
Tgt Ion:117 Resp: 13905

Ion Ratio Lower Upper

117 100

119 5.4 78.0 117.0#

121 0.0 24.2 36.2#



#39

Methylcyclohexane

Concen: 2.271 ug/l

RT: 9.269 min Scan# 1306

Delta R.T. -0.012 min

Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

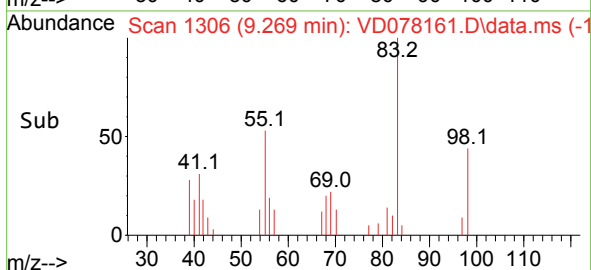
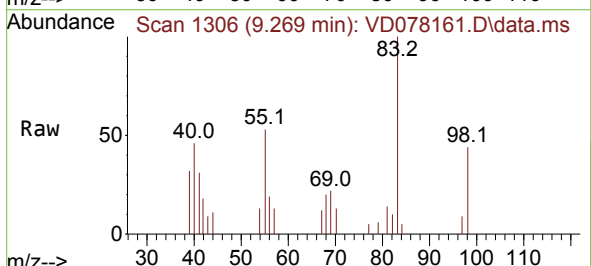
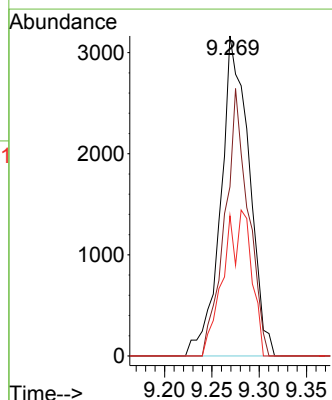
Tgt Ion: 83 Resp: 6583

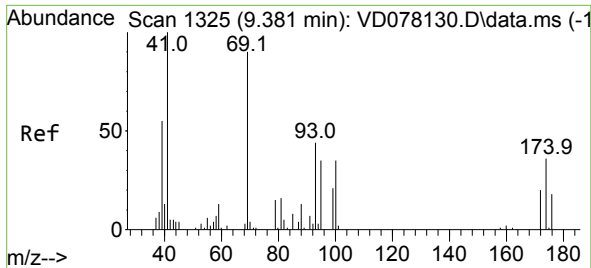
Ion Ratio Lower Upper

83 100

55 52.8 49.4 74.0

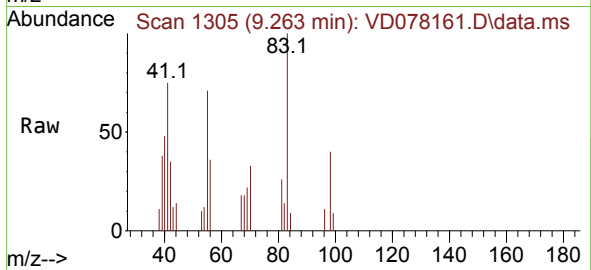
98 43.8 38.4 57.6



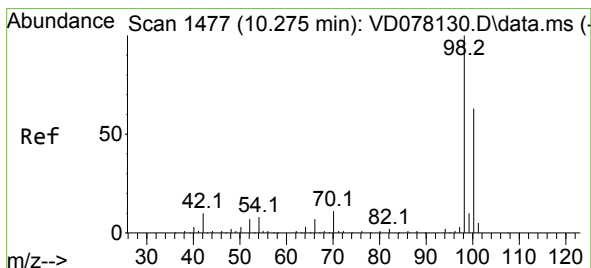
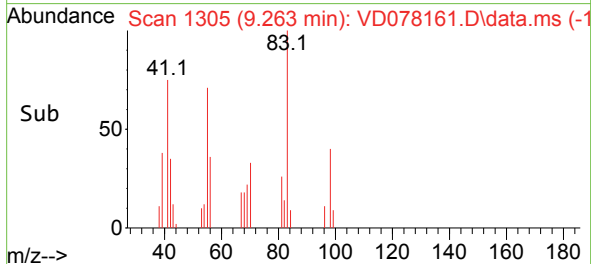
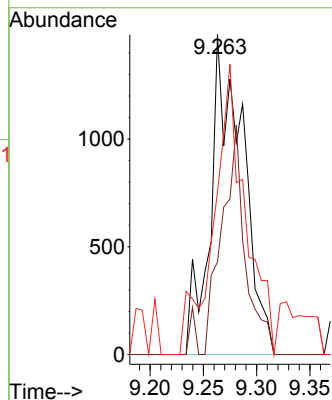


#48
Methyl methacrylate
Concen: 2.843 ug/l
RT: 9.263 min Scan# 11
Delta R.T. -0.118 min
Lab File: VD078161.D
Acq: 15 Jan 2024 13:56

Instrument :
MSVOA_D
ClientSampleId :

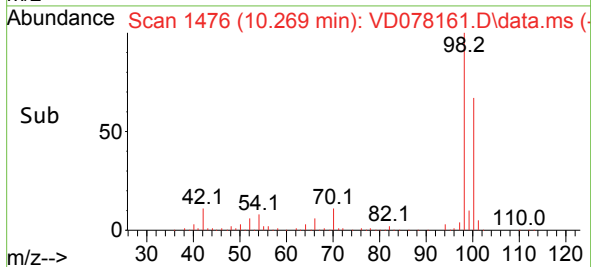
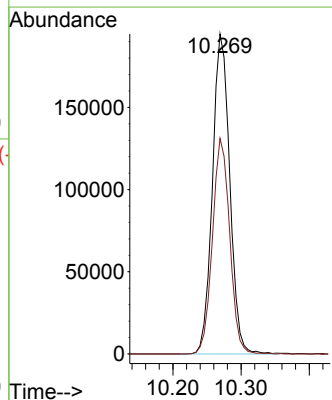
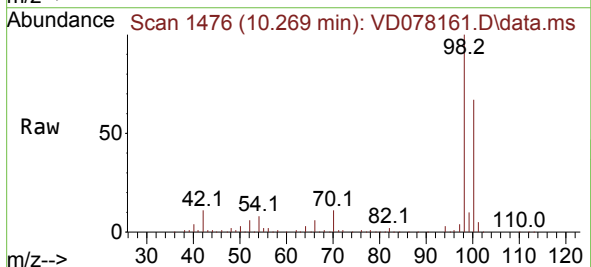


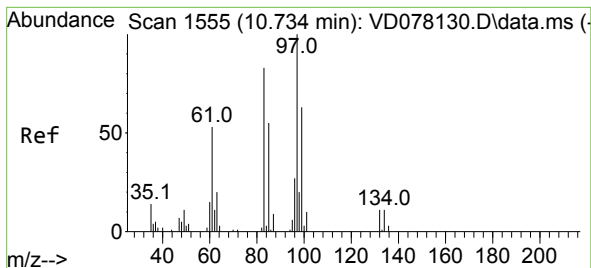
Tgt Ion: 41 Resp: 3140
Ion Ratio Lower Upper
41 100
69 51.8 102.2 153.2#
39 88.4 41.4 62.2#



#50
Toluene-d8
Concen: 52.632 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. -0.006 min
Lab File: VD078161.D
Acq: 15 Jan 2024 13:56

Tgt Ion: 98 Resp: 344325
Ion Ratio Lower Upper
98 100
100 67.1 50.3 75.5





#55

1,1,2-Trichloroethane

Concen: 2.067 ug/l

RT: 10.710 min Scan# 1551

Delta R.T. -0.024 min

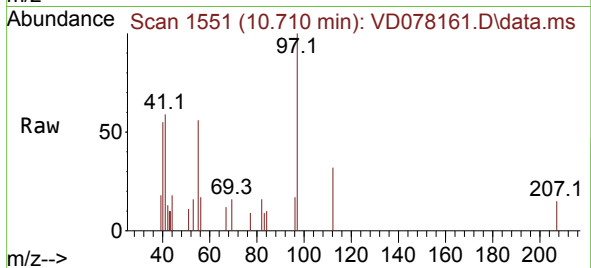
Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 97 Resp: 3252

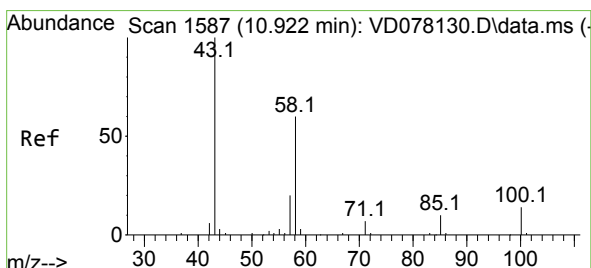
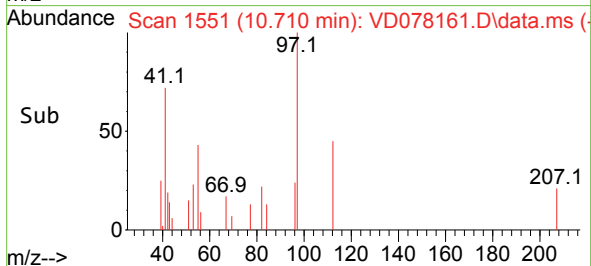
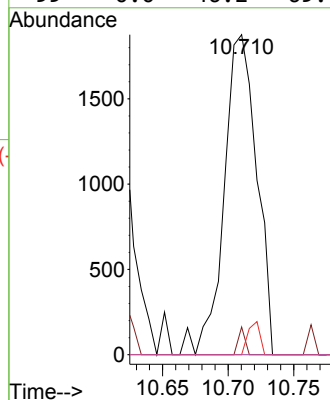
Ion Ratio Lower Upper

97 100

83 8.7 65.8 98.6#

85 0.0 45.7 68.5#

99 0.0 46.2 69.4#



#59

2-Hexanone

Concen: 2.312 ug/l

RT: 10.893 min Scan# 1582

Delta R.T. -0.029 min

Lab File: VD078161.D

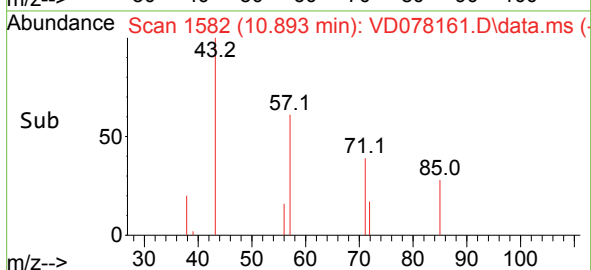
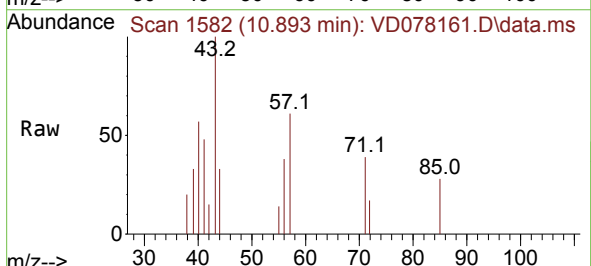
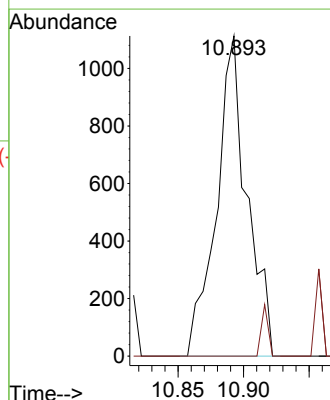
Acq: 15 Jan 2024 13:56

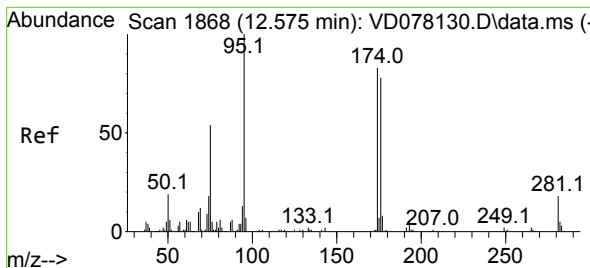
Tgt Ion: 43 Resp: 1800

Ion Ratio Lower Upper

43 100

58 0.0 34.1 102.2#

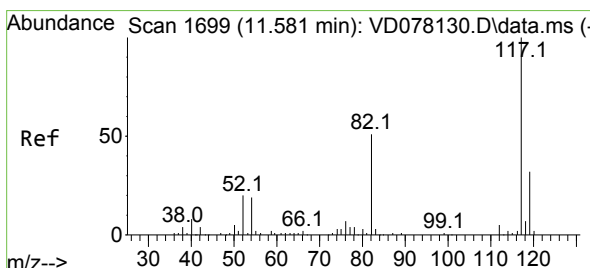
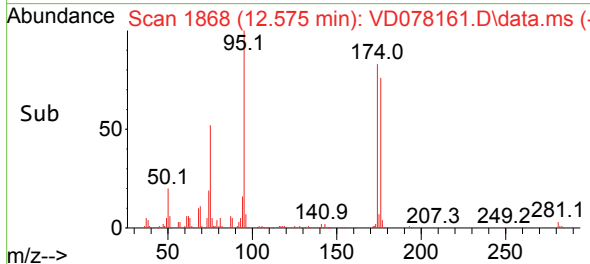
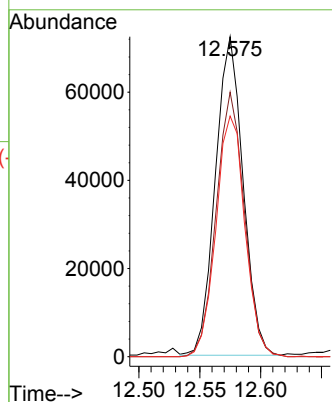
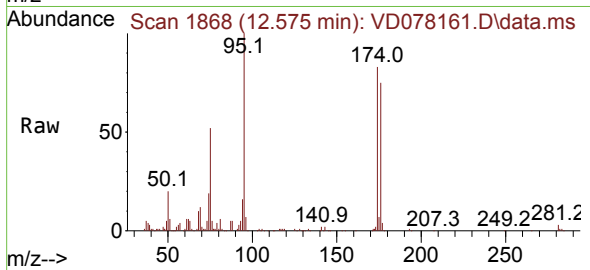




#62
4-Bromofluorobenzene
Concen: 50.162 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD078161.D
Acq: 15 Jan 2024 13:56

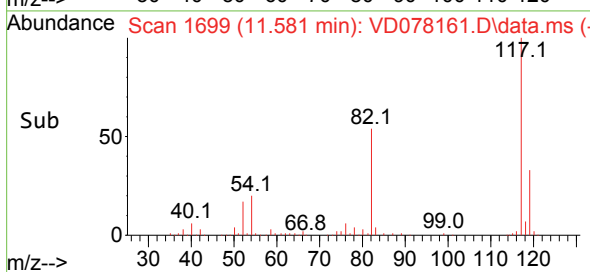
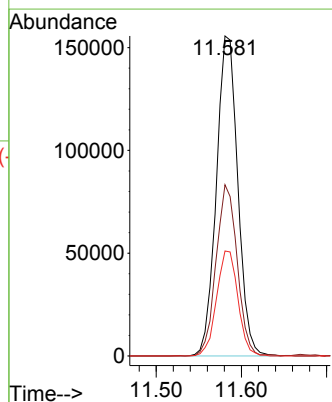
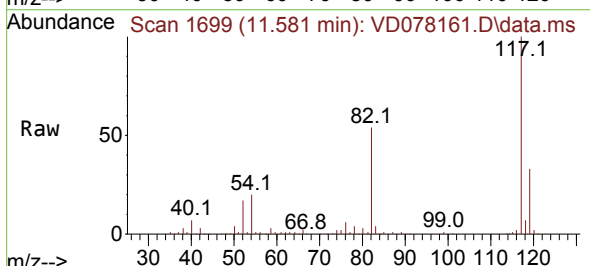
Instrument :
MSVOA_D
ClientSampleId :

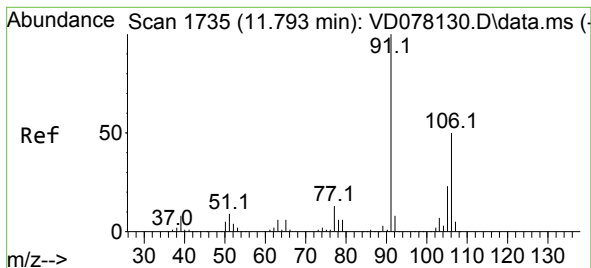
Tgt Ion: 95 Resp: 114238
Ion Ratio Lower Upper
95 100
174 84.3 0.0 201.8
176 79.3 0.0 191.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD078161.D
Acq: 15 Jan 2024 13:56

Tgt Ion: 117 Resp: 272045
Ion Ratio Lower Upper
117 100
82 53.4 38.3 57.5
119 32.8 25.0 37.4

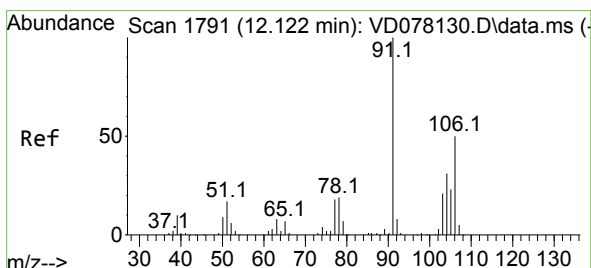
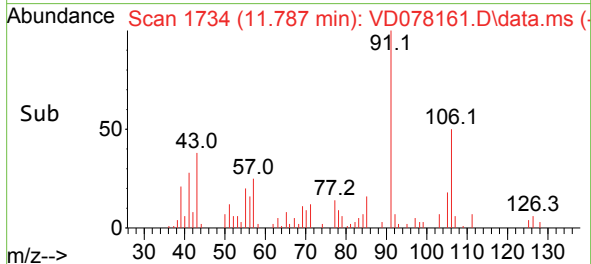
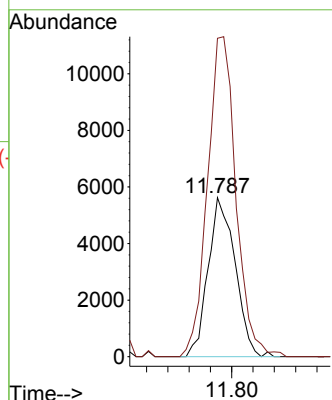
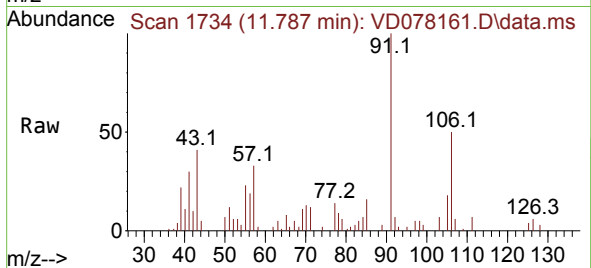




#68
m/p-Xylenes
Concen: 2.340 ug/l
RT: 11.787 min Scan# 1734
Delta R.T. -0.006 min
Lab File: VD078161.D
Acq: 15 Jan 2024 13:56

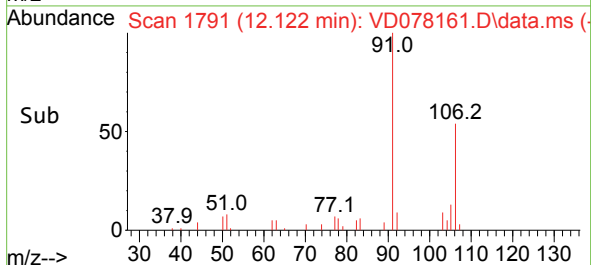
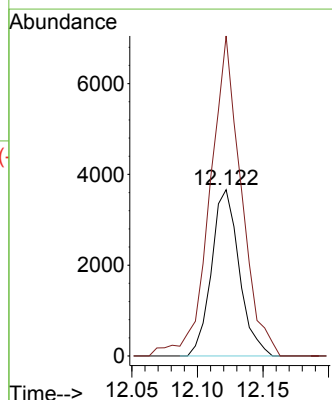
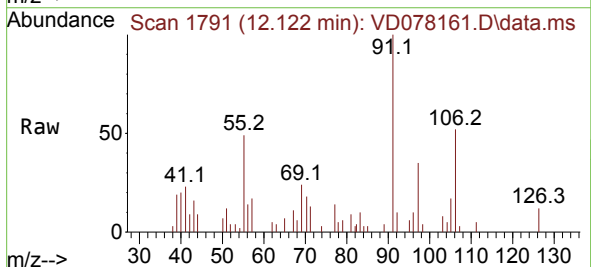
Instrument :
MSVOA_D
ClientSampleId :

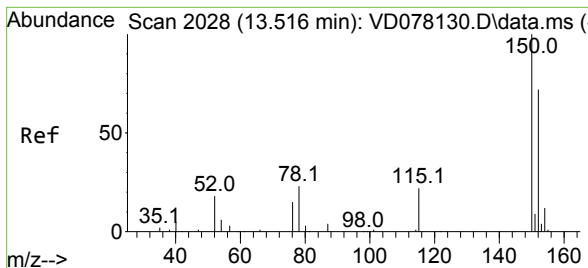
Tgt Ion:106 Resp: 9915
Ion Ratio Lower Upper
106 100
91 211.4 147.0 220.6



#69
o-Xylene
Concen: 1.371 ug/l
RT: 12.122 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VD078161.D
Acq: 15 Jan 2024 13:56

Tgt Ion:106 Resp: 5378
Ion Ratio Lower Upper
106 100
91 216.8 97.9 293.6

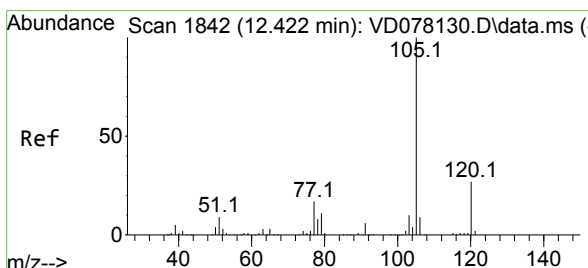
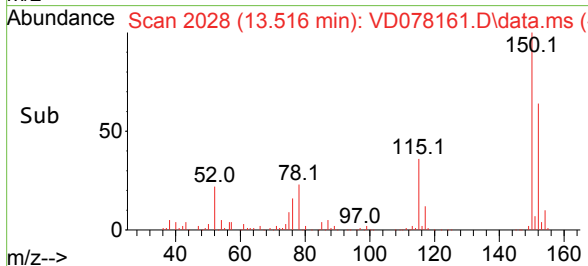
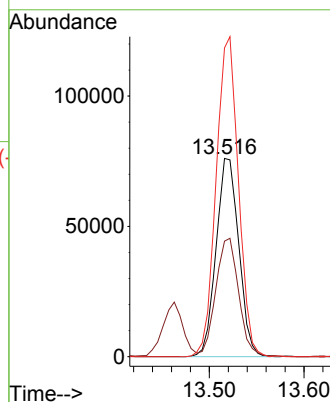
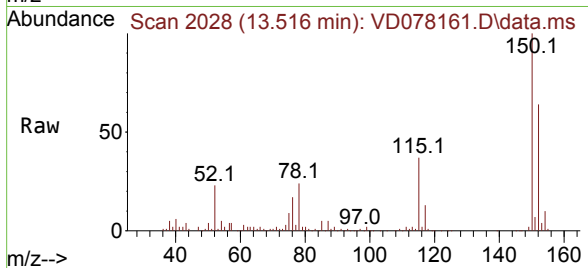




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD078161.D
Acq: 15 Jan 2024 13:56

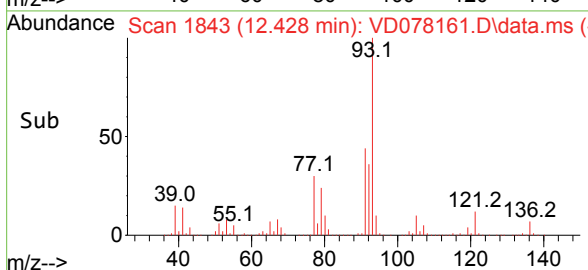
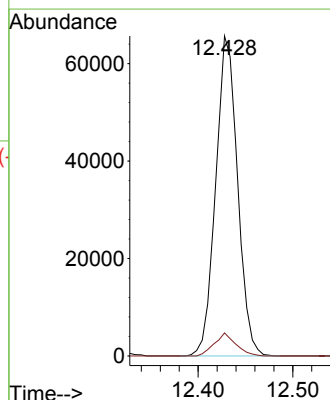
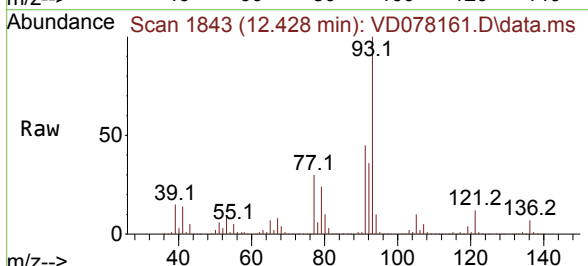
Instrument :
MSVOA_D
ClientSampleId :

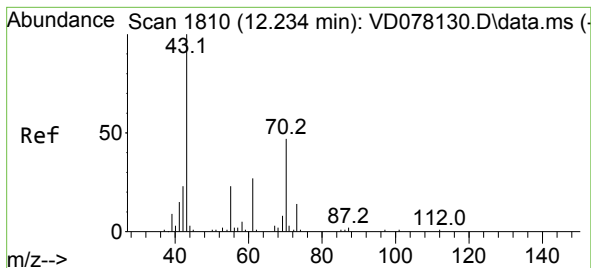
Tgt Ion:152 Resp: 126748
Ion Ratio Lower Upper
152 100
115 60.5 27.1 81.3
150 158.5 0.0 353.6



#73
Isopropylbenzene
Concen: 10.450 ug/l
RT: 12.428 min Scan# 1843
Delta R.T. 0.006 min
Lab File: VD078161.D
Acq: 15 Jan 2024 13:56

Tgt Ion:105 Resp: 105319
Ion Ratio Lower Upper
105 100
120 7.1 14.3 42.9#





#74

N-amy1 acetate

Concen: 2.486 ug/l

RT: 12.216 min Scan# 1807

Delta R.T. -0.018 min

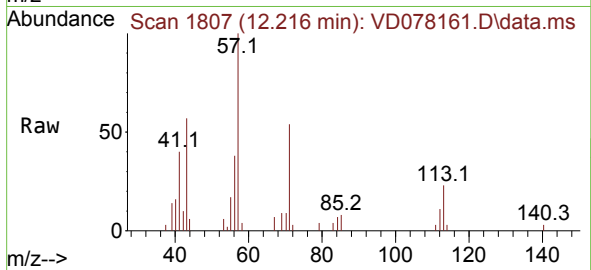
Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 43 Resp: 4582

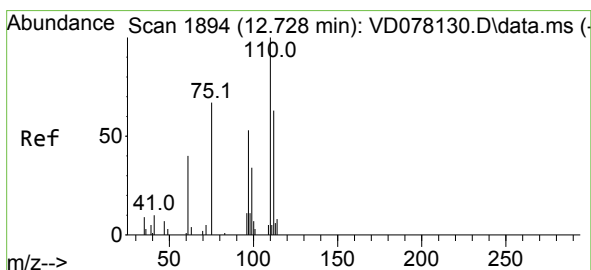
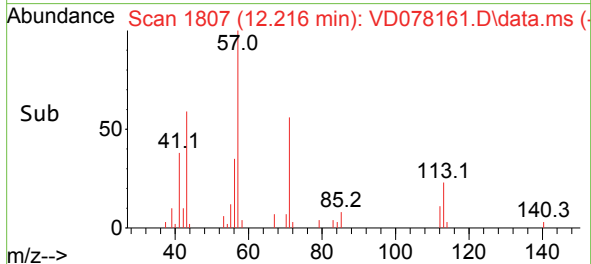
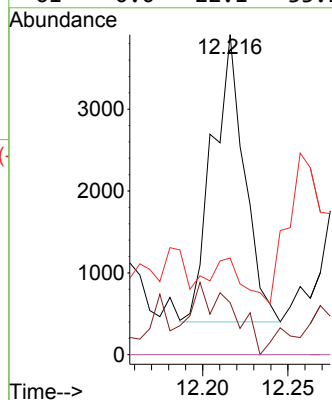
Ion Ratio Lower Upper

43 100

70 31.4 45.0 67.4#

55 0.0 23.8 35.6#

61 0.0 22.1 33.1#



#76

1,2,3-Trichloropropane

Concen: 49.510 ug/l

RT: 12.575 min Scan# 1868

Delta R.T. -0.153 min

Lab File: VD078161.D

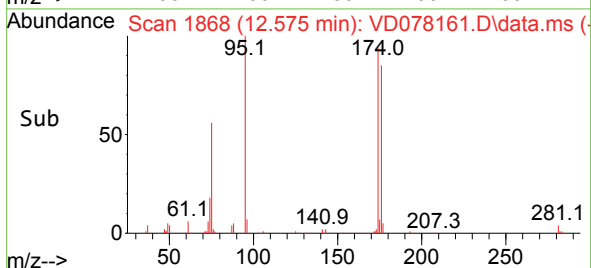
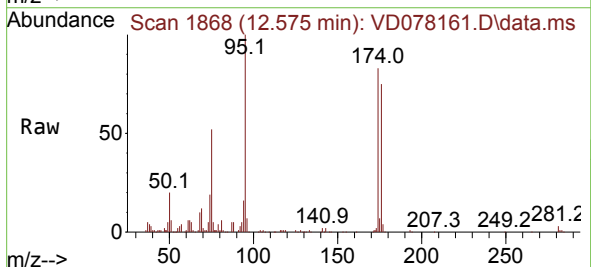
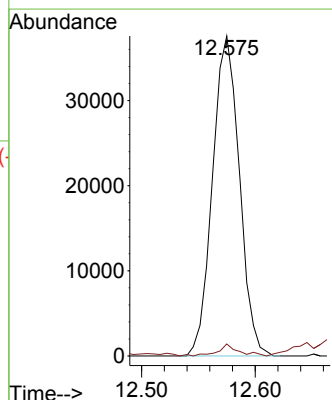
Acq: 15 Jan 2024 13:56

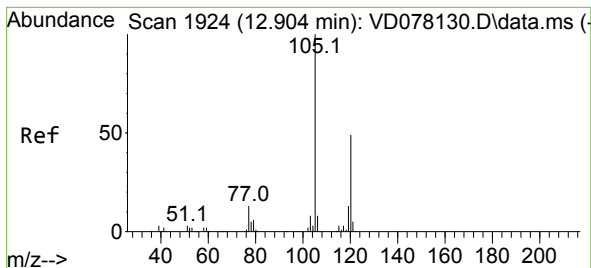
Tgt Ion: 75 Resp: 61783

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0





#80

1,3,5-Trimethylbenzene

Concen: 3.318 ug/l

RT: 12.904 min Scan# 1924

Delta R.T. -0.000 min

Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

Instrument :

MSVOA_D

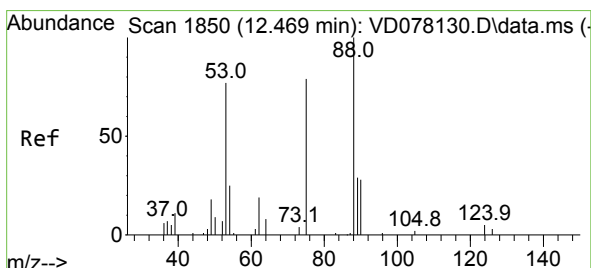
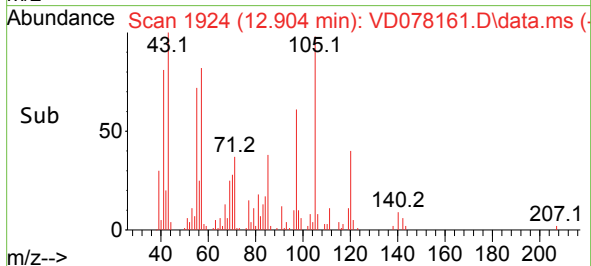
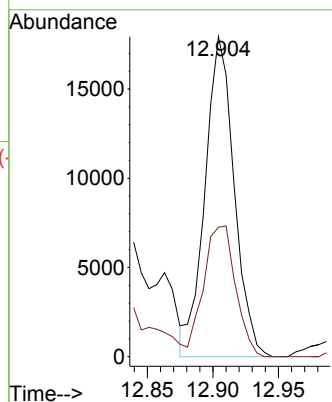
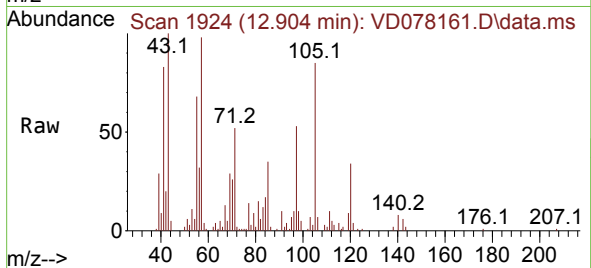
ClientSampleId :

Tgt Ion:105 Resp: 27754

Ion Ratio Lower Upper

105 100

120 44.6 26.4 79.2



#81

trans-1,4-Dichloro-2-butene

Concen: 6.229 ug/l

RT: 12.434 min Scan# 1844

Delta R.T. -0.035 min

Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

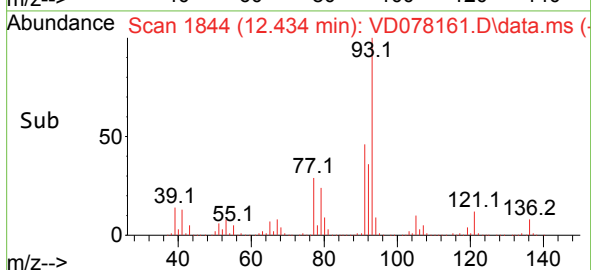
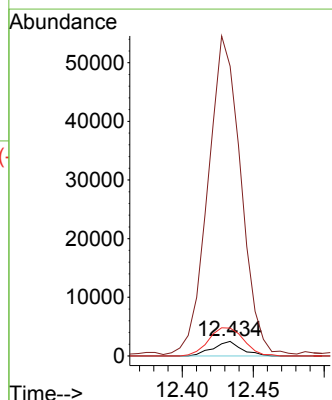
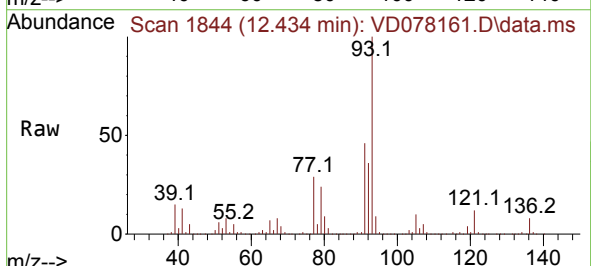
Tgt Ion: 75 Resp: 3488

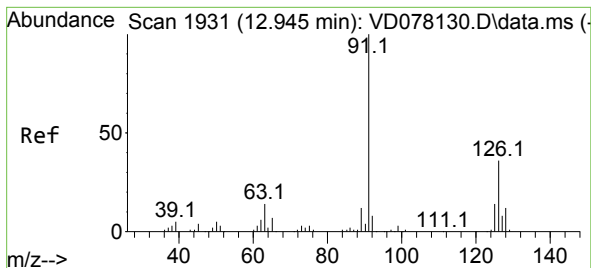
Ion Ratio Lower Upper

75 100

53 2496.3 63.0 94.4#

89 237.8 37.9 56.9#

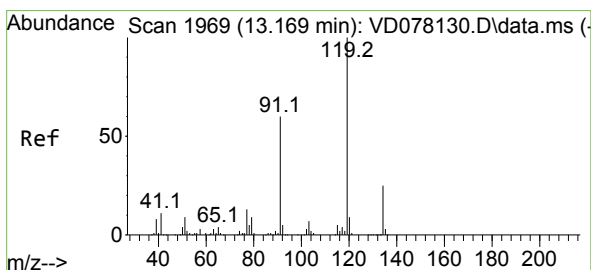
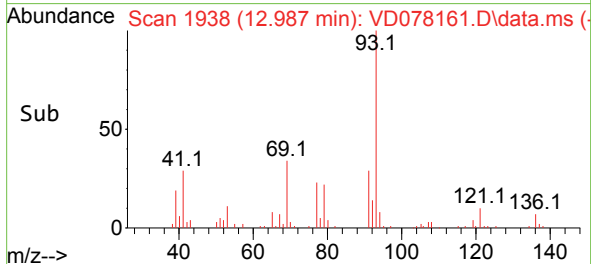
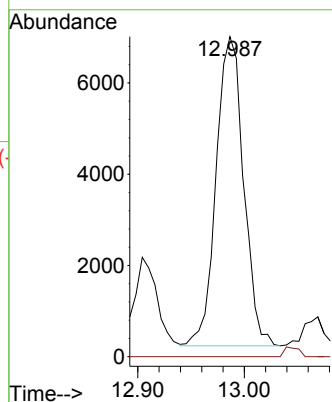
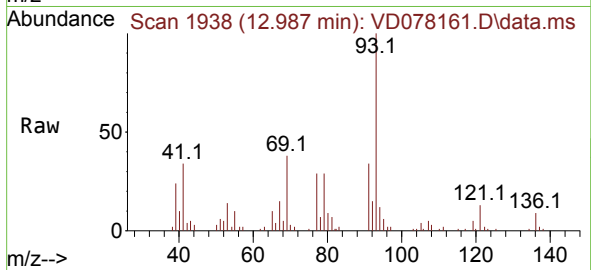




#82
4-Chlorotoluene
Concen: 1.735 ug/l
RT: 12.987 min Scan# 1938
Delta R.T. 0.041 min
Lab File: VD078161.D
Acq: 15 Jan 2024 13:56

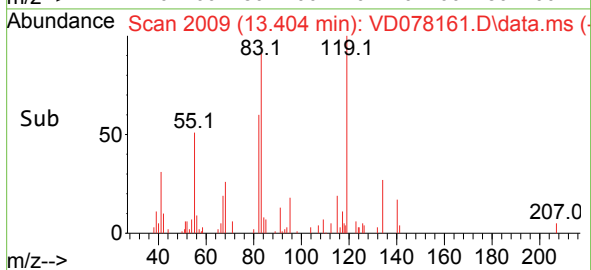
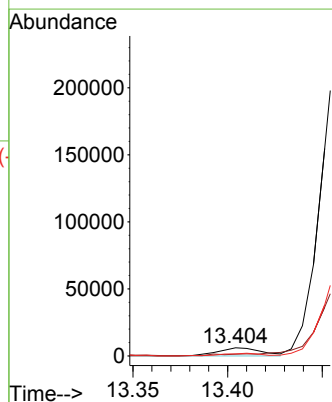
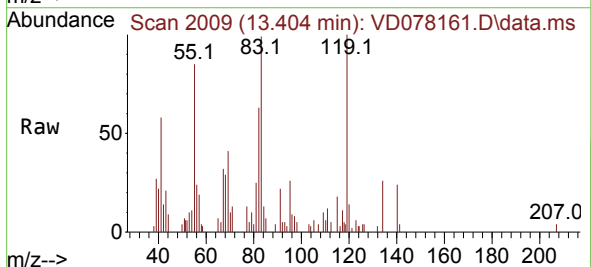
Instrument :
MSVOA_D
ClientSampleId :

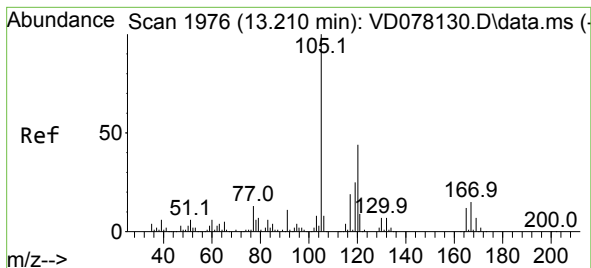
Tgt Ion: 91 Resp: 12131
Ion Ratio Lower Upper
91 100
126 0.0 19.4 58.4#



#83
tert-Butylbenzene
Concen: 1.336 ug/l
RT: 13.404 min Scan# 2009
Delta R.T. 0.235 min
Lab File: VD078161.D
Acq: 15 Jan 2024 13:56

Tgt Ion: 119 Resp: 9780
Ion Ratio Lower Upper
119 100
91 0.0 29.3 87.8#
134 28.7 14.1 42.3





#84

1,2,4-Trimethylbenzene

Concen: 6.393 ug/l

RT: 13.216 min Scan# 1976

Delta R.T. 0.006 min

Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

Instrument :

MSVOA_D

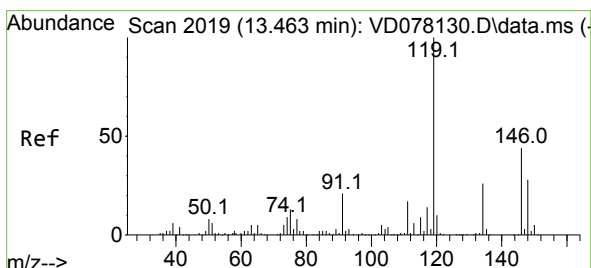
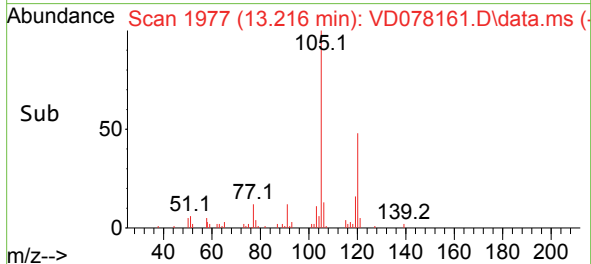
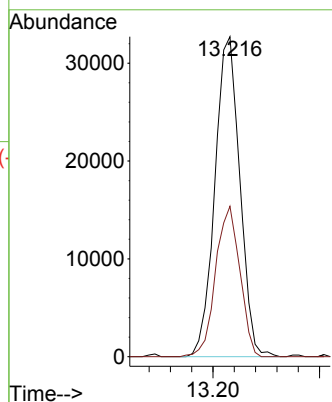
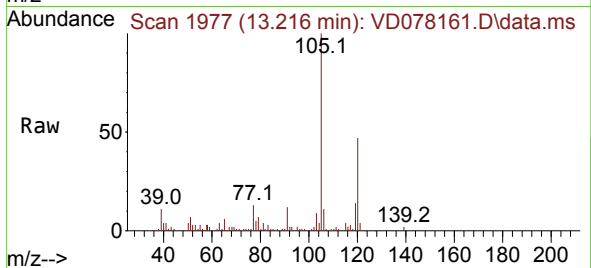
ClientSampleId :

Tgt Ion:105 Resp: 53088

Ion Ratio Lower Upper

105 100

120 45.6 24.3 72.9



#86

p-Isopropyltoluene

Concen: 42.052 ug/l

RT: 13.463 min Scan# 2019

Delta R.T. -0.000 min

Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

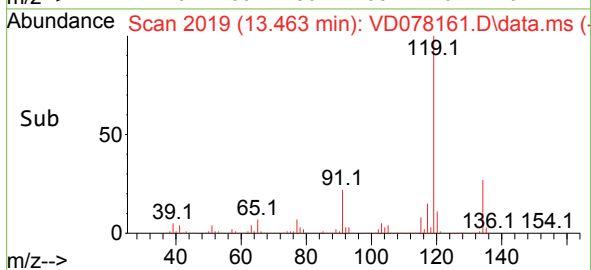
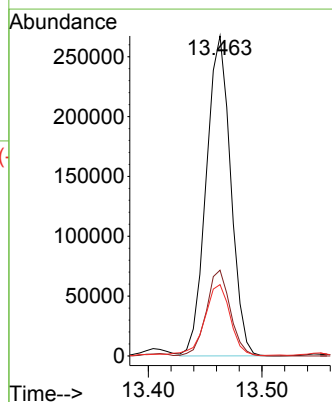
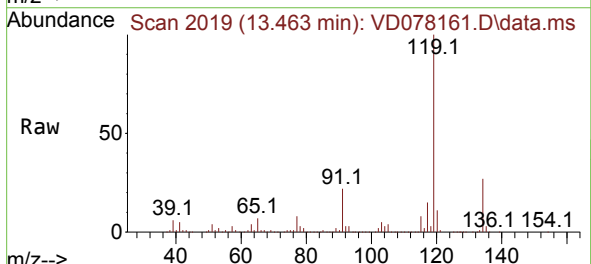
Tgt Ion:119 Resp: 399484

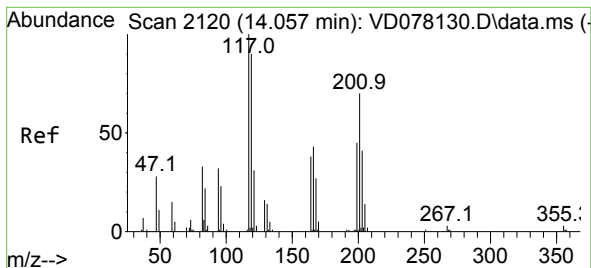
Ion Ratio Lower Upper

119 100

134 26.3 14.2 42.6

91 24.3 10.5 31.5





#90

Hexachloroethane

Concen: 1.137 ug/l

RT: 14.069 min Scan# 2122

Delta R.T. 0.012 min

Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

Instrument :

MSVOA_D

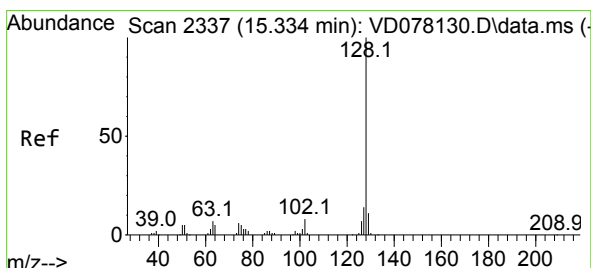
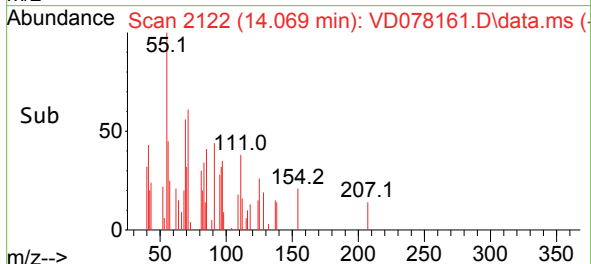
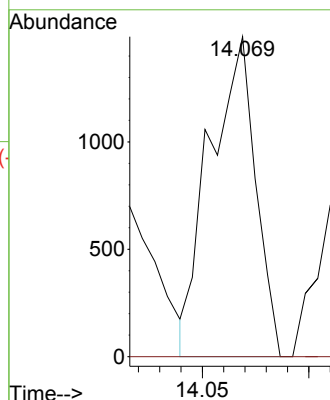
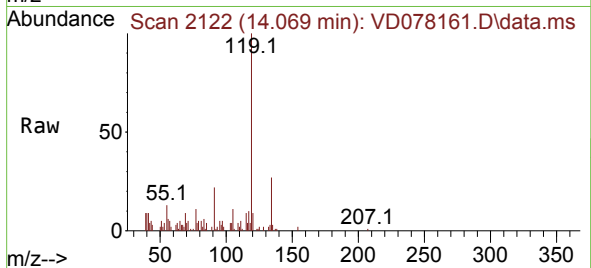
ClientSampleId :

Tgt Ion:117 Resp: 2219

Ion Ratio Lower Upper

117 100

201 0.0 38.5 115.5#



#95

Naphthalene

Concen: 9.408 ug/l

RT: 15.334 min Scan# 2337

Delta R.T. -0.000 min

Lab File: VD078161.D

Acq: 15 Jan 2024 13:56

Tgt Ion:128 Resp: 42790

Ion Ratio Lower Upper

128 100

127 13.9 10.5 15.7

129 11.6 8.7 13.1

