

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD073024\
 Data File : VD079479.D
 Acq On : 31 Jul 2024 03:19
 Operator : RP/MD
 Sample : P3374-02
 Misc : 8.47G/5.0ml/MSVOA_D/SOIL/A
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

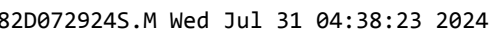
Quant Time: Jul 31 04:38:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D072924S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 30 03:50:47 2024
 Response via : Initial Calibration

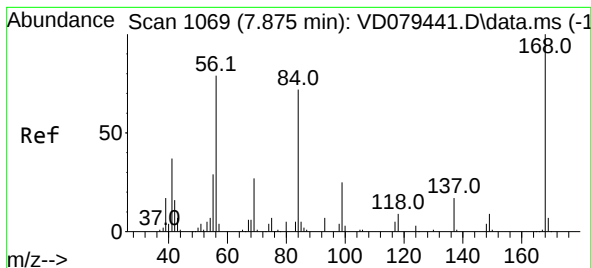
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.875	168	128636	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	217488	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	213528	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	97486	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	73033	55.886	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 111.780%			
35) Dibromofluoromethane	7.805	113	86519	58.774	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 117.540%			
50) Toluene-d8	10.269	98	251501	43.995	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 88.000%			
62) 4-Bromofluorobenzene	12.569	95	76211	46.070	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 92.140%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.893	85	7794	7.733	ug/l	86
5) Bromomethane	2.699	94	332	Below Cal	#	72
11) Tert butyl alcohol	5.134	59	60	Below Cal	#	86
12) 1,1-Dichloroethene	3.940	96	1604	1.154	ug/l	91
16) Acetone	4.028	43	6979	27.480	ug/l	95
17) Carbon Disulfide	4.269	76	36476	7.951	ug/l	96
18) Methyl Acetate	4.581	43	834	1.058	ug/l #	52
20) Methylene Chloride	4.805	84	50913	17.987	ug/l	91
24) 1,1-Dichloroethane	6.105	63	35632	13.021	ug/l	97
25) 2-Butanone	7.081	43	762	2.116	ug/l #	1
27) cis-1,2-Dichloroethene	7.081	96	264530	148.220	ug/l	99
31) Cyclohexane	7.875	56	2659	1.225	ug/l #	62
36) 1,1-Dichloropropene	7.881	75	9861	4.908	ug/l #	46
38) Carbon Tetrachloride	7.875	117	11273	5.337	ug/l #	16
39) Methylcyclohexane	9.028	83	5568	2.323	ug/l #	1
42) 1,2-Dichloroethane	8.322	62	4483	2.948	ug/l	99
44) Trichloroethene	9.028	130	416175	261.977	ug/l	95
51) 4-Methyl-2-Pentanone	10.269	43	978	1.237	ug/l #	1
60) Dibromochloromethane	10.810	129	2767	1.868	ug/l #	11
64) Tetrachloroethene	10.816	164	3421	2.376	ug/l #	59
73) Isopropylbenzene	12.563	105	62	3.636	ug/l #	48
76) 1,2,3-Trichloropropane	12.569	75	38642	45.348	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.569	75	38642	86.491	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.210	105	240	3.465	ug/l #	29
89) n-Butylbenzene	13.793	91	80	3.794	ug/l #	34

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

Quant Time: Jul 31 04:38:11 2024
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. 0.000 min

Lab File: VD079479.D

Acq: 31 Jul 2024 03:19

Instrument :

MSVOA_D

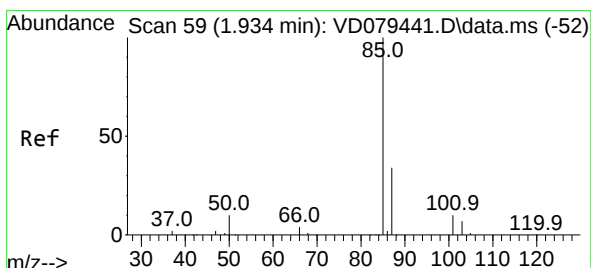
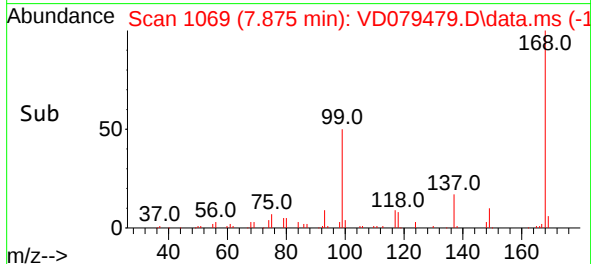
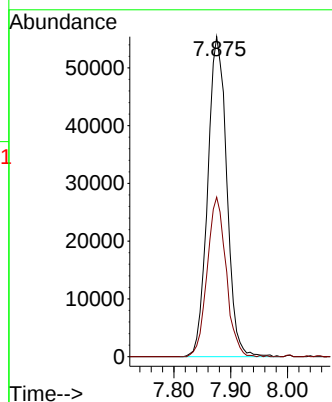
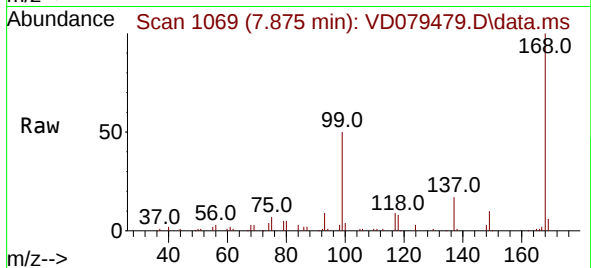
ClientSampleId :

Tgt Ion:168 Resp: 128636

Ion Ratio Lower Upper

168 100

99 49.9 41.1 61.7



#2

Dichlorodifluoromethane

Concen: 7.733 ug/l

RT: 1.893 min Scan# 52

Delta R.T. -0.035 min

Lab File: VD079479.D

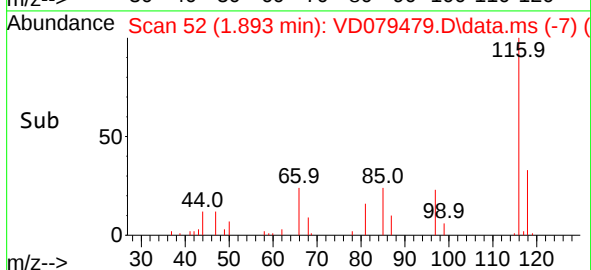
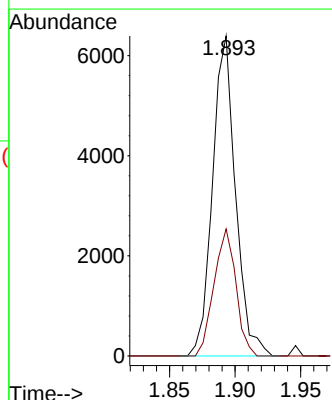
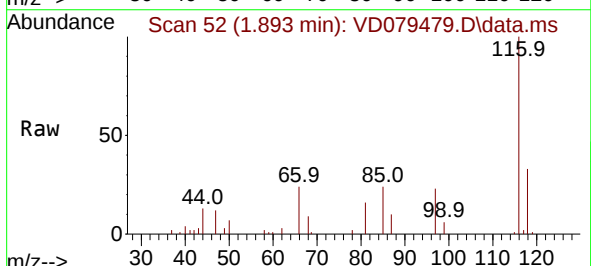
Acq: 31 Jul 2024 03:19

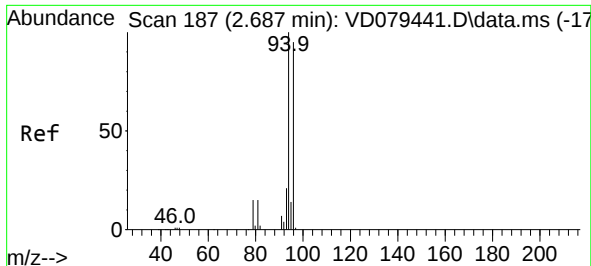
Tgt Ion: 85 Resp: 7794

Ion Ratio Lower Upper

85 100

87 39.7 16.0 48.0

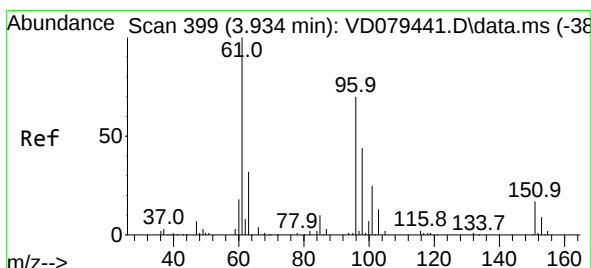
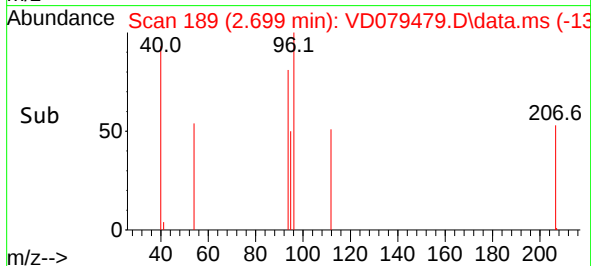
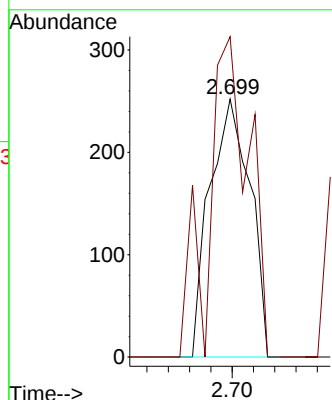
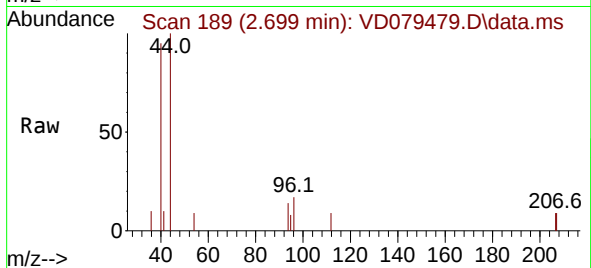




#5
Bromomethane
Concen: Below Cal
RT: 2.699 min Scan# 11
Delta R.T. 0.012 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

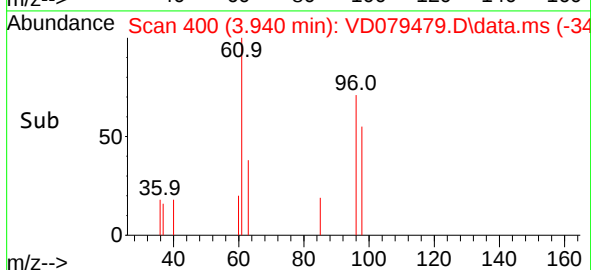
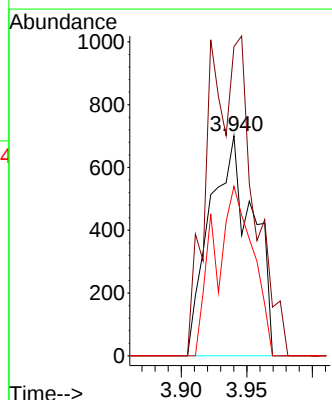
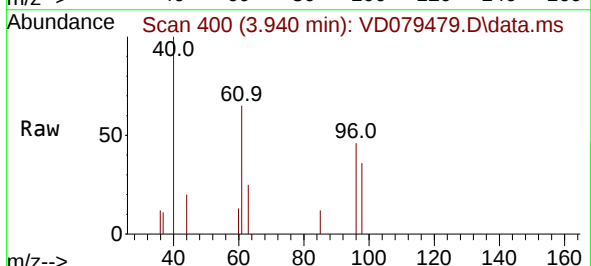
Instrument :
MSVOA_D
ClientSampleId :

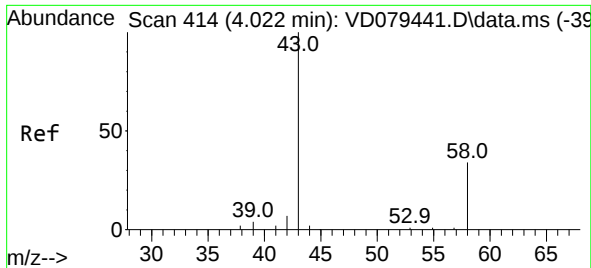
Tgt Ion: 94 Resp: 332
Ion Ratio Lower Upper
94 100
96 123.8 76.9 115.3#



#12
1,1-Dichloroethene
Concen: 1.154 ug/l
RT: 3.940 min Scan# 400
Delta R.T. 0.012 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

Tgt Ion: 96 Resp: 1604
Ion Ratio Lower Upper
96 100
61 140.5 107.3 160.9
98 77.0 51.7 77.5

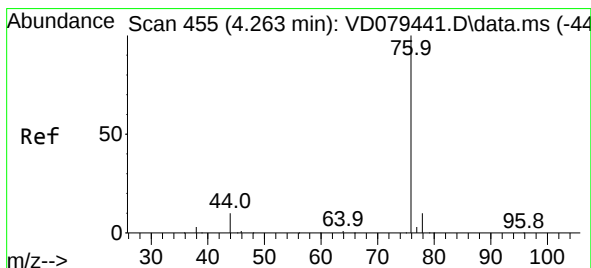
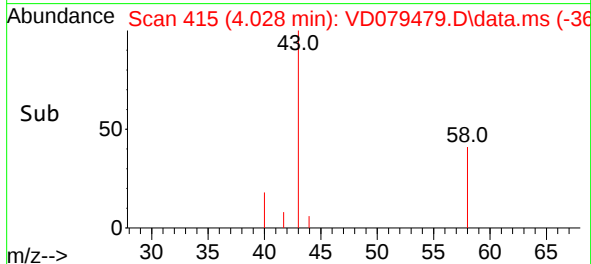
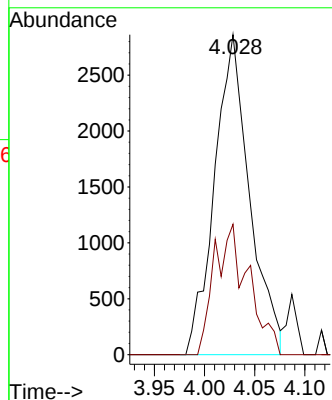
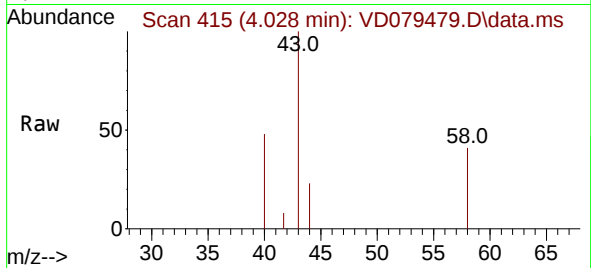




#16
Acetone
Concen: 27.480 ug/l
RT: 4.028 min Scan# 414
Delta R.T. 0.006 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

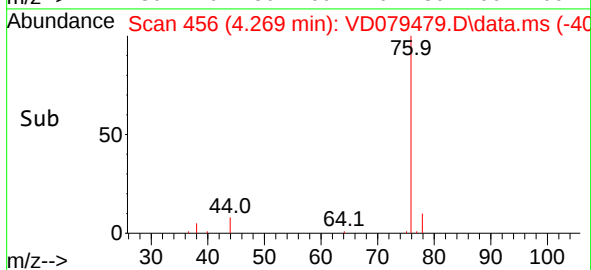
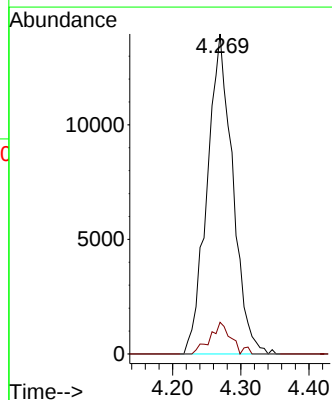
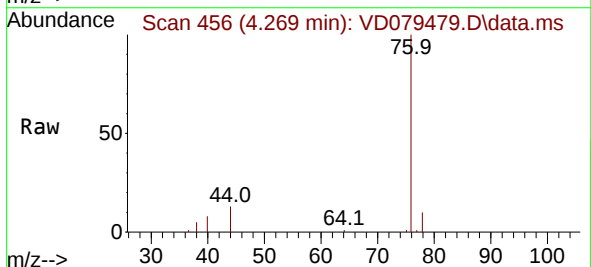
Instrument :
MSVOA_D
ClientSampleId :

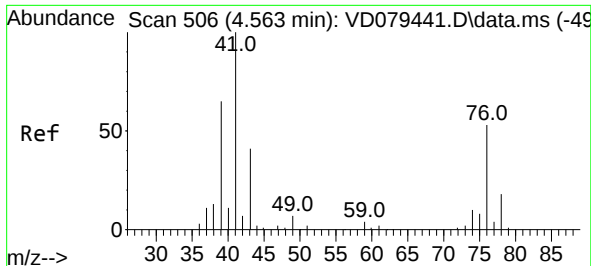
Tgt Ion: 43 Resp: 6979
Ion Ratio Lower Upper
43 100
58 40.7 30.4 45.6



#17
Carbon Disulfide
Concen: 7.951 ug/l
RT: 4.269 min Scan# 456
Delta R.T. 0.006 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

Tgt Ion: 76 Resp: 36476
Ion Ratio Lower Upper
76 100
78 9.9 6.9 10.3

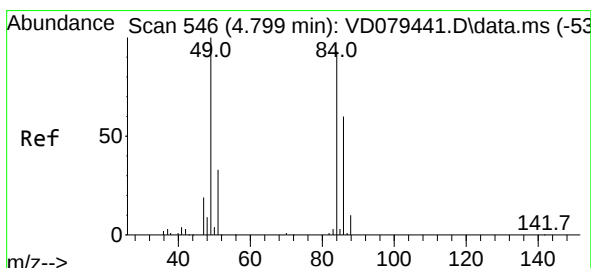
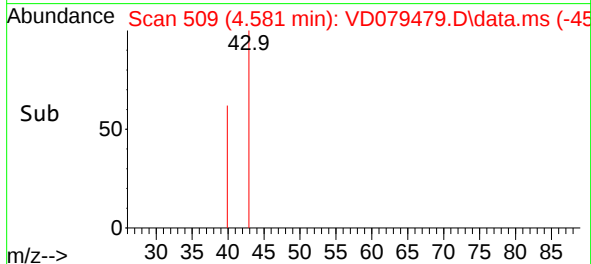
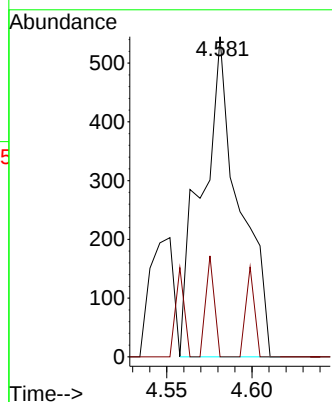
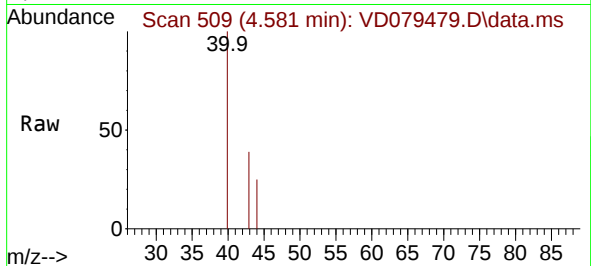




#18
Methyl Acetate
Concen: 1.058 ug/l
RT: 4.581 min Scan# 509
Delta R.T. 0.012 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

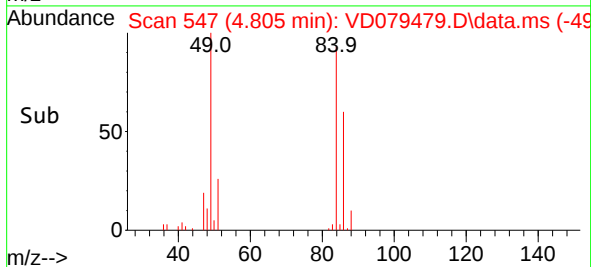
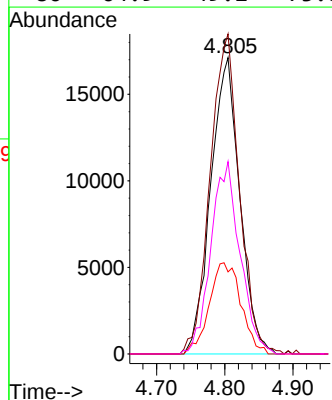
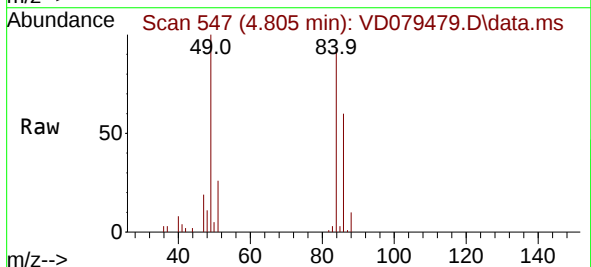
Instrument :
MSVOA_D
ClientSampleId :

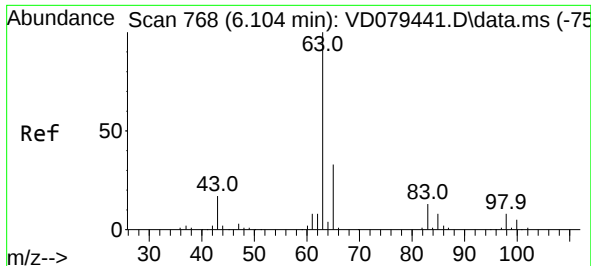
Tgt Ion: 43 Resp: 834
Ion Ratio Lower Upper
43 100
74 7.3 28.1 42.1#



#20
Methylene Chloride
Concen: 17.987 ug/l
RT: 4.805 min Scan# 547
Delta R.T. 0.006 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

Tgt Ion: 84 Resp: 50913
Ion Ratio Lower Upper
84 100
49 108.0 75.6 113.4
51 27.7 24.2 36.2
86 64.9 49.2 73.8

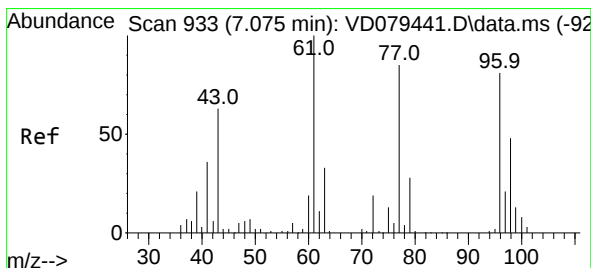
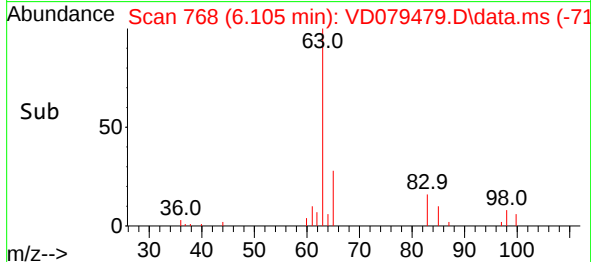
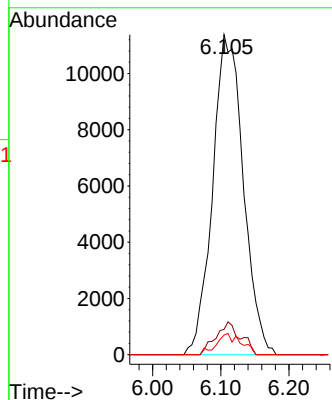
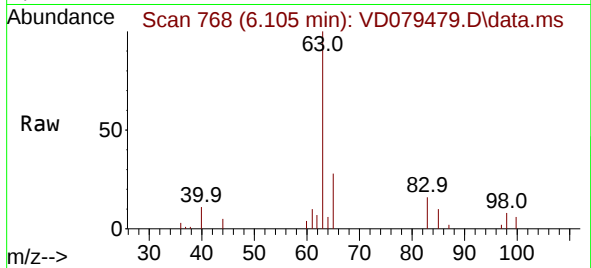




#24
1,1-Dichloroethane
Concen: 13.021 ug/l
RT: 6.105 min Scan# 768
Delta R.T. 0.000 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

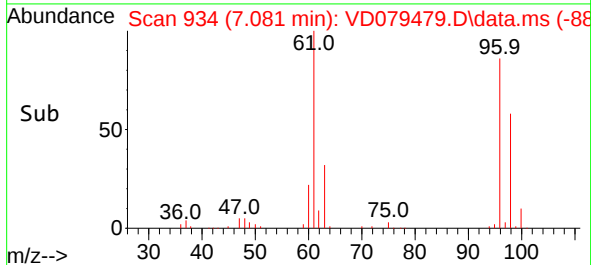
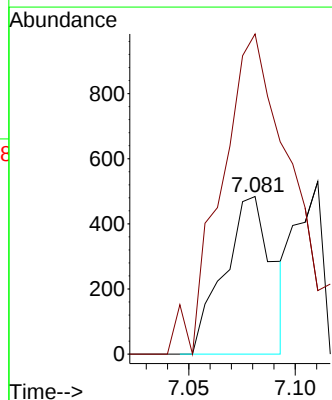
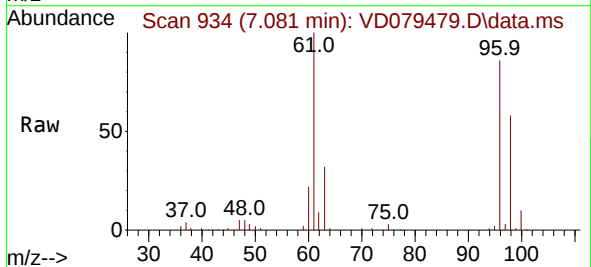
Instrument :
MSVOA_D
ClientSampleId :

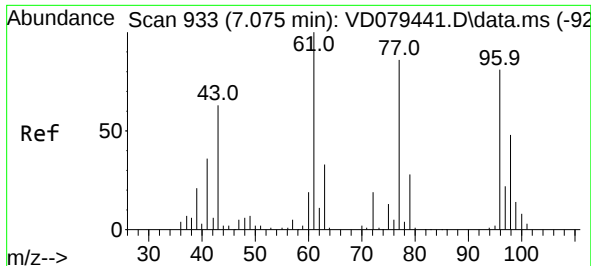
Tgt Ion: 63 Resp: 35632
Ion Ratio Lower Upper
63 100
98 7.9 4.7 14.0
100 6.1 2.9 8.6



#25
2-Butanone
Concen: 2.116 ug/l
RT: 7.081 min Scan# 934
Delta R.T. -0.012 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

Tgt Ion: 43 Resp: 762
Ion Ratio Lower Upper
43 100
72 171.7 26.4 39.6#





#27

cis-1,2-Dichloroethene

Concen: 148.220 ug/l

RT: 7.081 min Scan# 91

Delta R.T. 0.006 min

Lab File: VD079479.D

Acq: 31 Jul 2024 03:19

Instrument :

MSVOA_D

ClientSampleId :

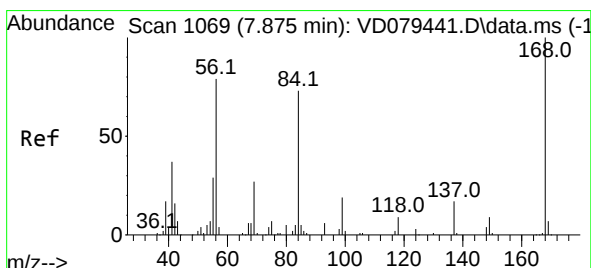
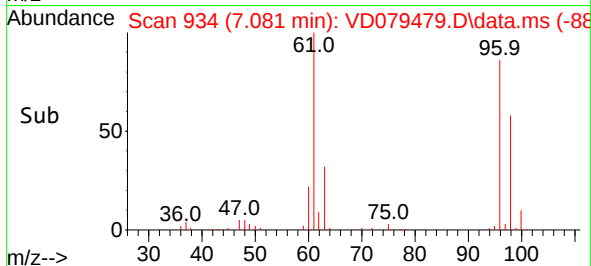
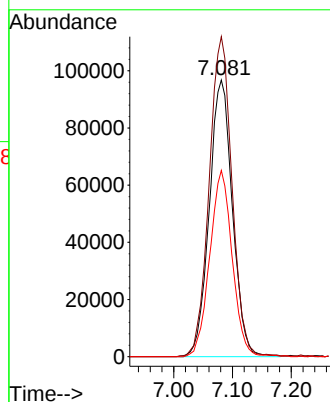
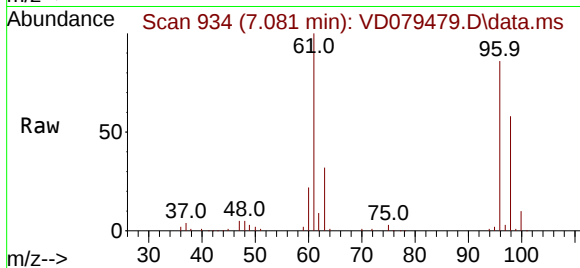
Tgt Ion: 96 Resp: 264530

Ion Ratio Lower Upper

96 100

61 114.3 0.0 229.0

98 65.4 0.0 127.2



#31

Cyclohexane

Concen: 1.225 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.006 min

Lab File: VD079479.D

Acq: 31 Jul 2024 03:19

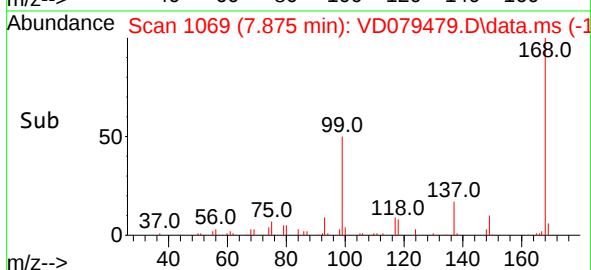
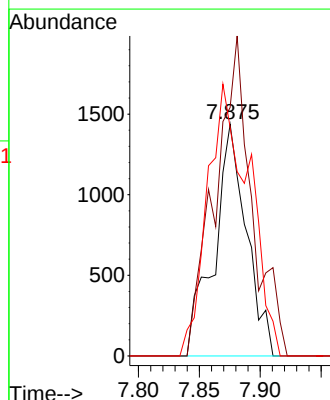
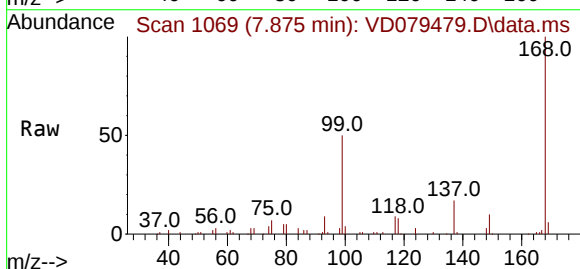
Tgt Ion: 56 Resp: 2659

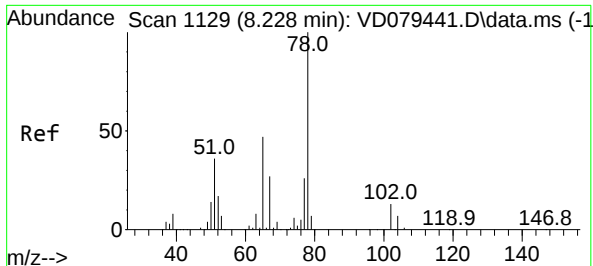
Ion Ratio Lower Upper

56 100

69 107.2 28.0 42.0#

84 98.6 87.4 131.0





#33

1,2-Dichloroethane-d4

Concen: 55.886 ug/l

RT: 8.234 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VD079479.D

Acq: 31 Jul 2024 03:19

Instrument :

MSVOA_D

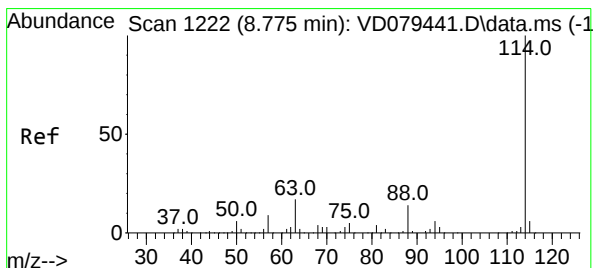
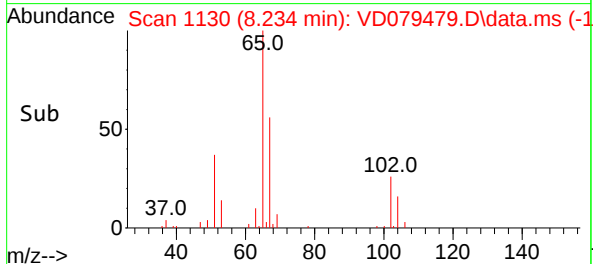
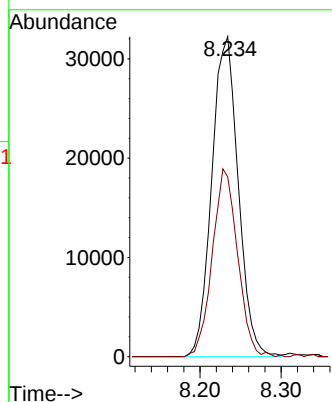
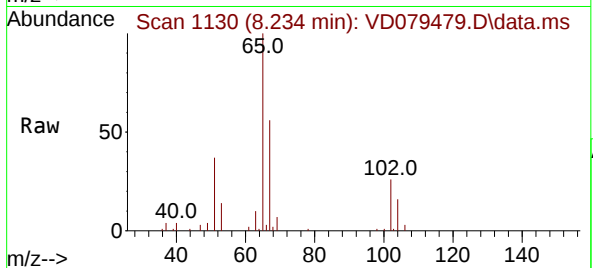
ClientSampleId :

Tgt Ion: 65 Resp: 73033

Ion Ratio Lower Upper

65 100

67 56.1 0.0 111.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. 0.000 min

Lab File: VD079479.D

Acq: 31 Jul 2024 03:19

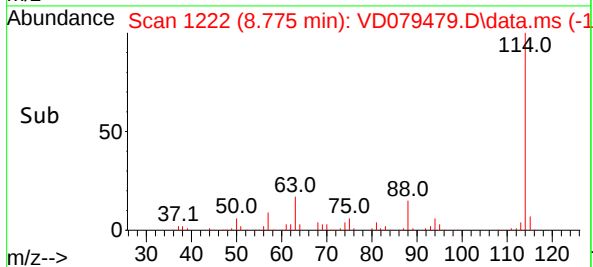
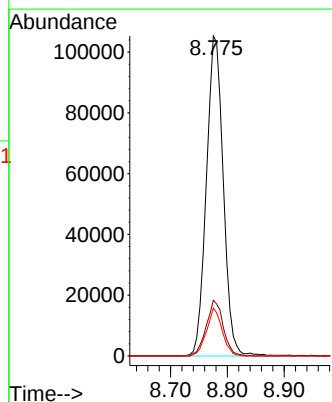
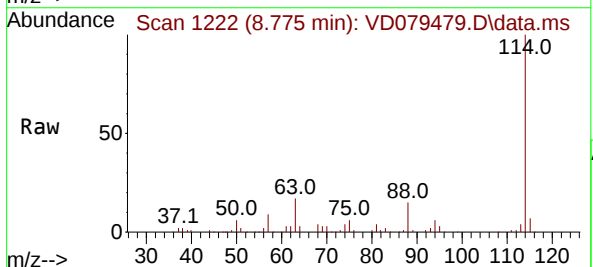
Tgt Ion:114 Resp: 217488

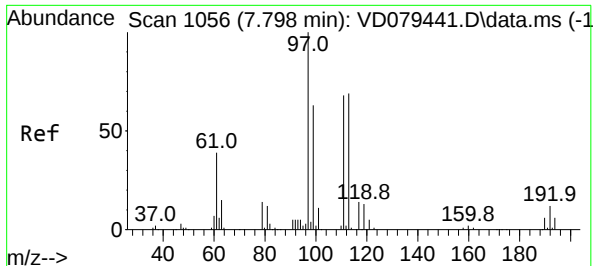
Ion Ratio Lower Upper

114 100

63 17.4 0.0 34.0

88 15.0 0.0 27.2





#35

Dibromofluoromethane

Concen: 58.774 ug/l

RT: 7.805 min Scan# 1070

Delta R.T. 0.000 min

Lab File: VD079479.D

Acq: 31 Jul 2024 03:19

Instrument :

MSVOA_D

ClientSampleId :

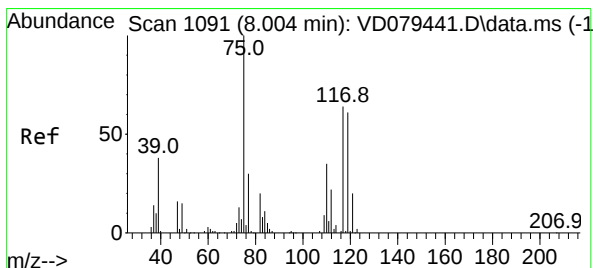
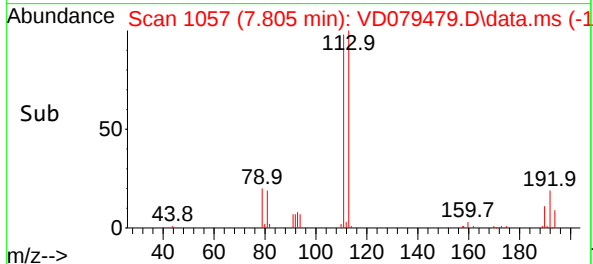
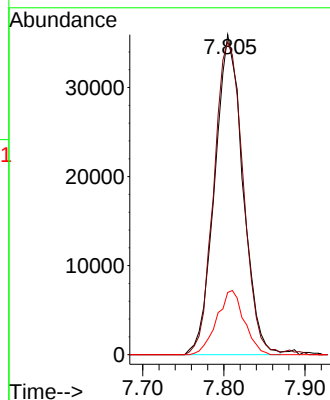
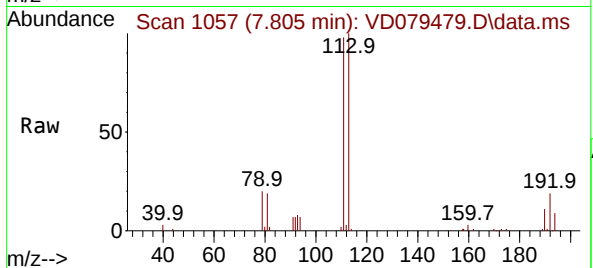
Tgt Ion:113 Resp: 86519

Ion Ratio Lower Upper

113 100

111 101.3 84.0 126.0

192 19.5 15.4 23.0



#36

1,1-Dichloropropene

Concen: 4.908 ug/l

RT: 7.881 min Scan# 1070

Delta R.T. -0.129 min

Lab File: VD079479.D

Acq: 31 Jul 2024 03:19

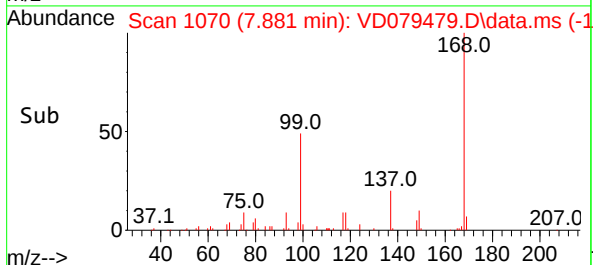
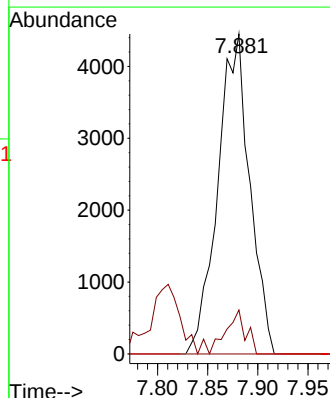
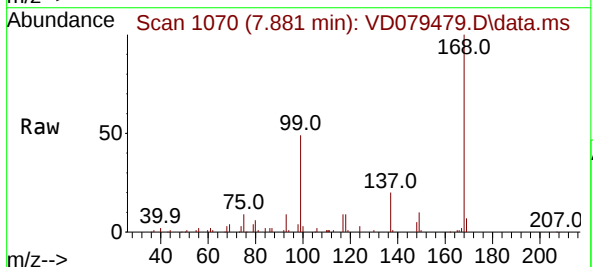
Tgt Ion: 75 Resp: 9861

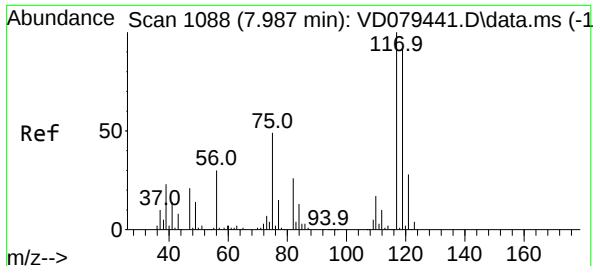
Ion Ratio Lower Upper

75 100

110 8.4 19.6 58.7#

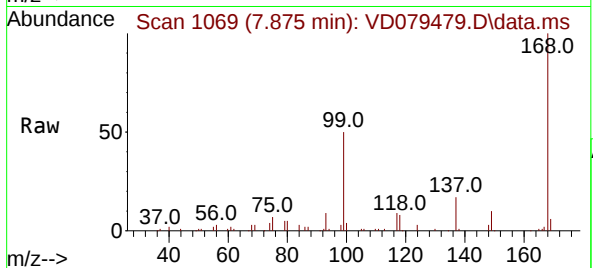
77 0.0 26.1 39.1#



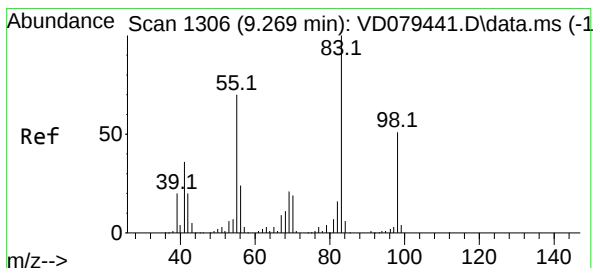
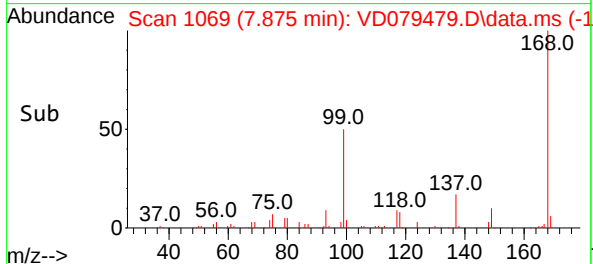
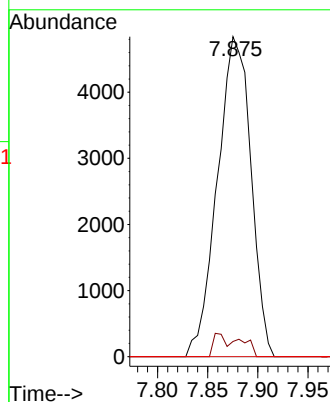


#38
Carbon Tetrachloride
Concen: 5.337 ug/l
RT: 7.875 min Scan# 11273
Delta R.T. -0.112 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

Instrument :
MSVOA_D
ClientSampleId :

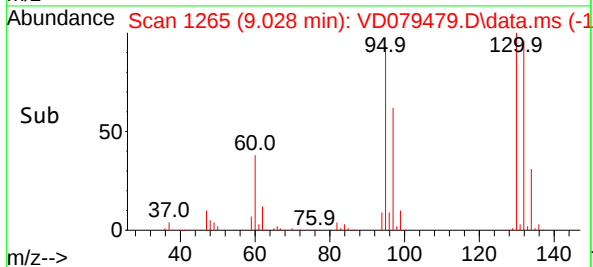
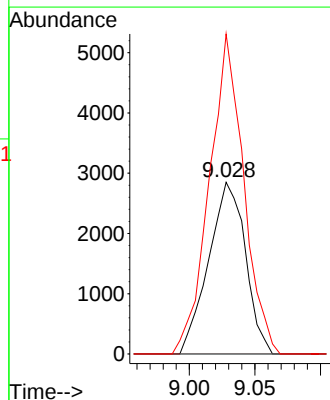
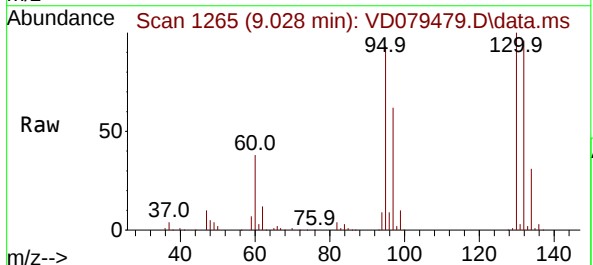


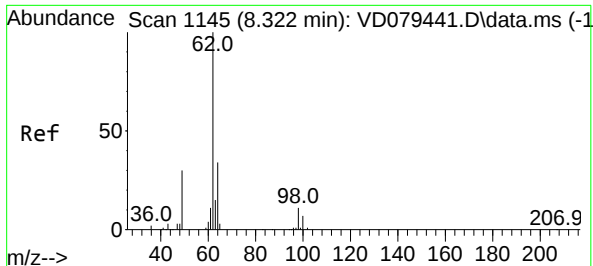
Tgt Ion:117 Resp: 11273
Ion Ratio Lower Upper
117 100
119 4.8 75.4 113.0#
121 0.0 25.0 37.4#



#39
Methylcyclohexane
Concen: 2.323 ug/l
RT: 9.028 min Scan# 1265
Delta R.T. -0.247 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

Tgt Ion: 83 Resp: 5568
Ion Ratio Lower Upper
83 100
55 0.0 50.1 75.1#
98 178.5 41.9 62.9#





#42

1,2-Dichloroethane

Concen: 2.948 ug/l

RT: 8.322 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VD079479.D

Acq: 31 Jul 2024 03:19

Instrument :

MSVOA_D

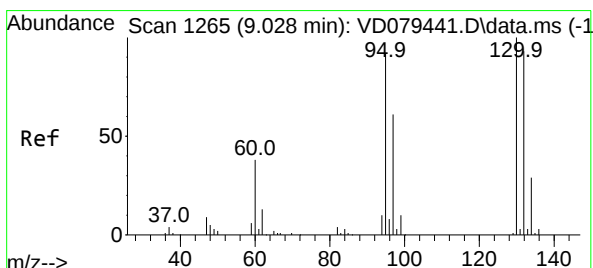
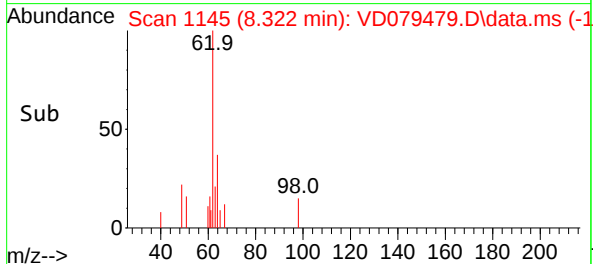
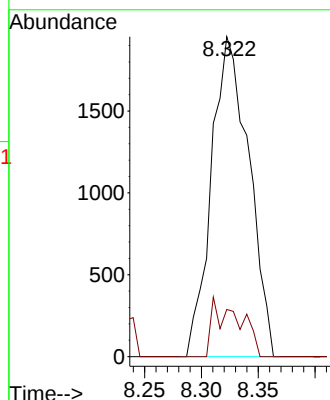
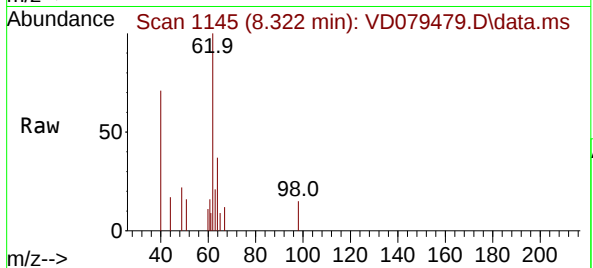
ClientSampleId :

Tgt Ion: 62 Resp: 4483

Ion Ratio Lower Upper

62 100

98 13.2 0.0 25.8



#44

Trichloroethene

Concen: 261.977 ug/l

RT: 9.028 min Scan# 1265

Delta R.T. 0.000 min

Lab File: VD079479.D

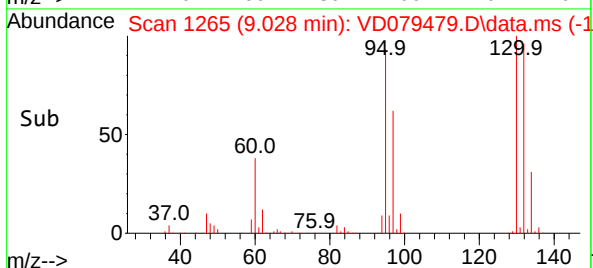
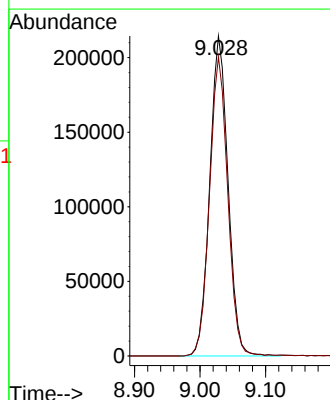
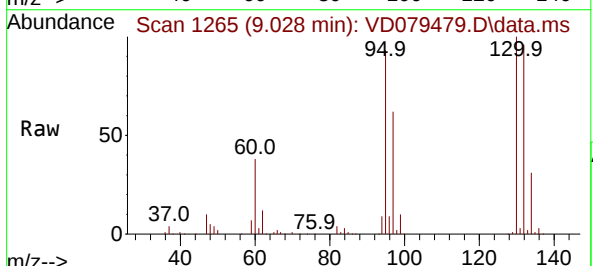
Acq: 31 Jul 2024 03:19

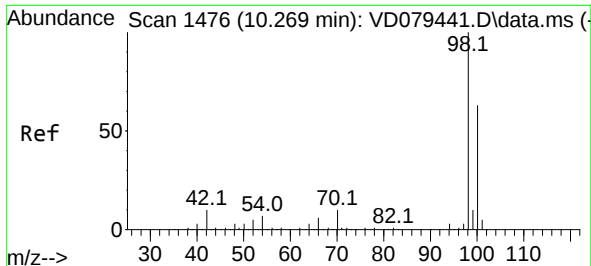
Tgt Ion:130 Resp: 416175

Ion Ratio Lower Upper

130 100

95 93.5 0.0 177.8

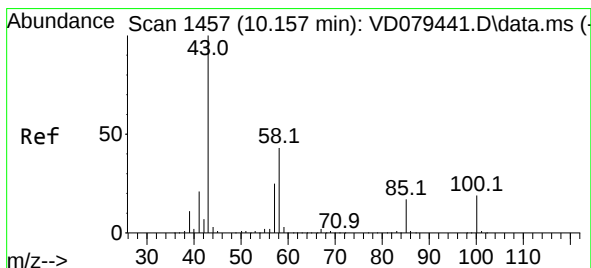
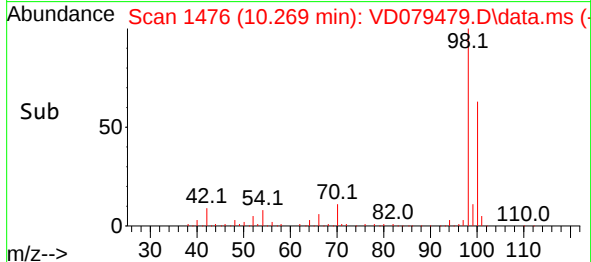
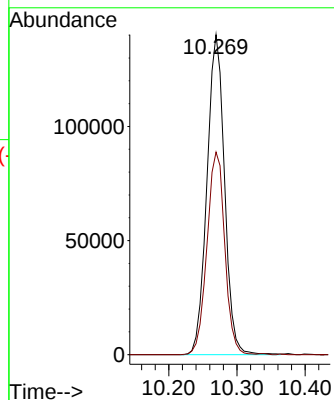
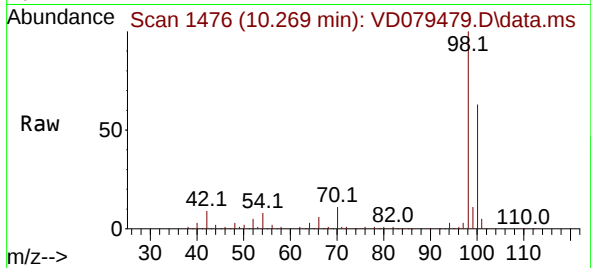




#50
Toluene-d8
Concen: 43.995 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

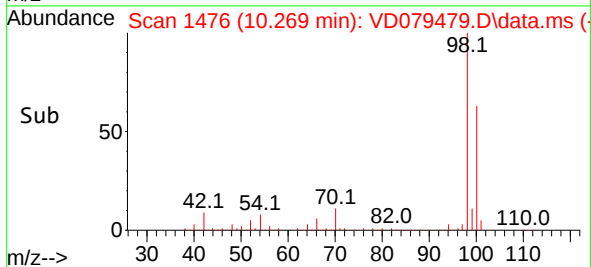
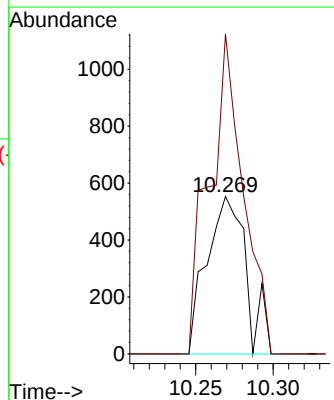
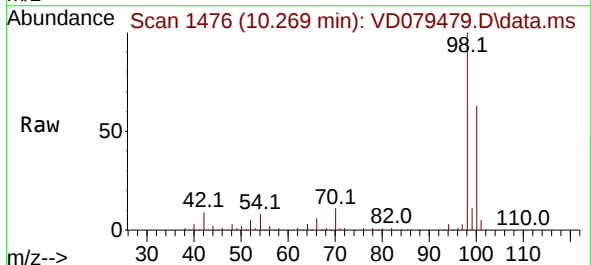
Instrument :
MSVOA_D
ClientSampleId :

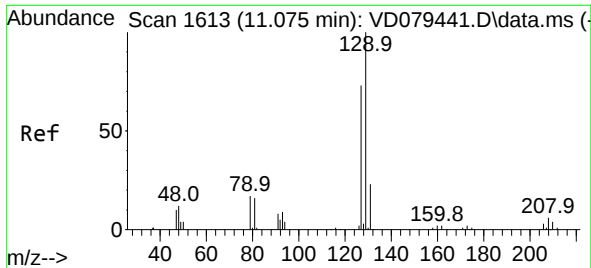
Tgt Ion: 98 Resp: 251501
Ion Ratio Lower Upper
98 100
100 64.1 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 1.237 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.112 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

Tgt Ion: 43 Resp: 978
Ion Ratio Lower Upper
43 100
58 175.9 36.6 55.0#

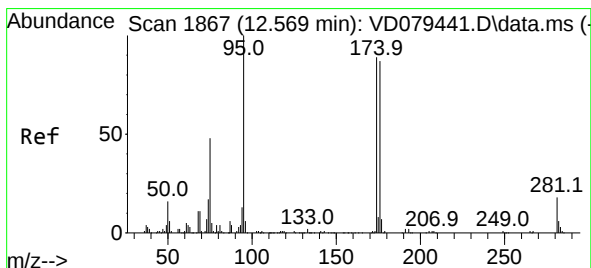
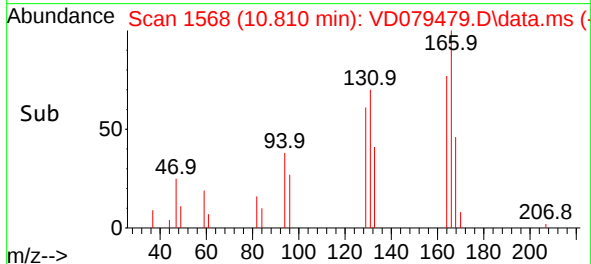
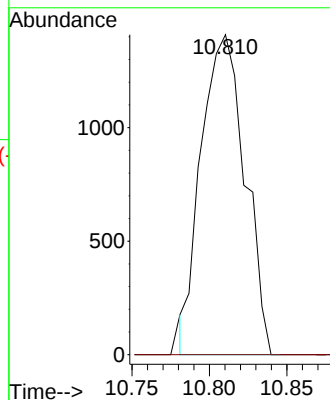
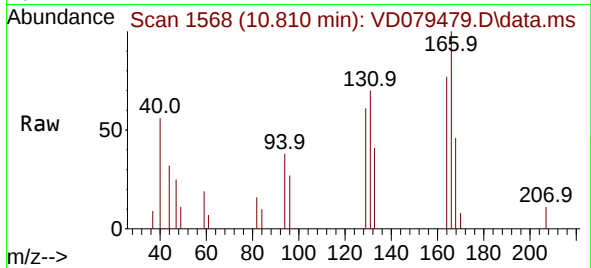




#60
Dibromochloromethane
Concen: 1.868 ug/l
RT: 10.810 min Scan# 1568
Delta R.T. -0.259 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

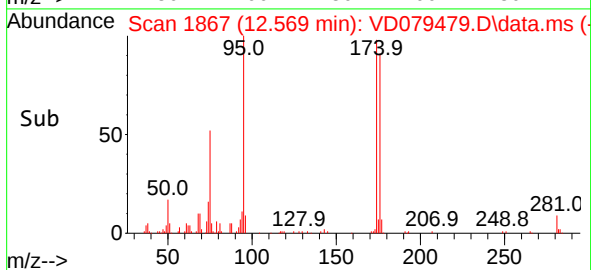
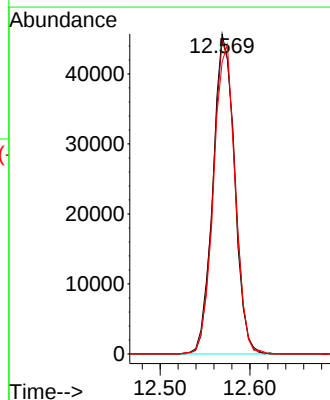
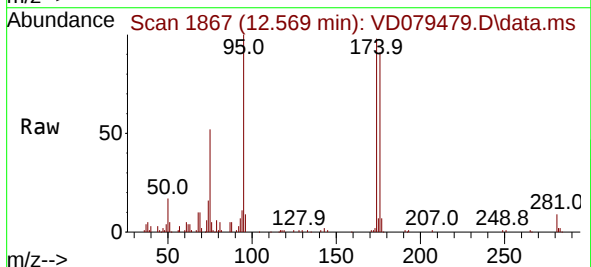
Instrument :
MSVOA_D
ClientSampleId :

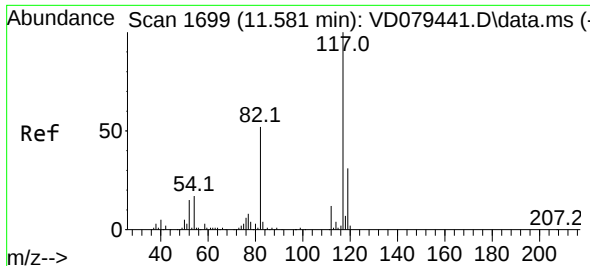
Tgt Ion:129 Resp: 2767
Ion Ratio Lower Upper
129 100
127 0.0 38.0 113.9#



#62
4-Bromofluorobenzene
Concen: 46.070 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

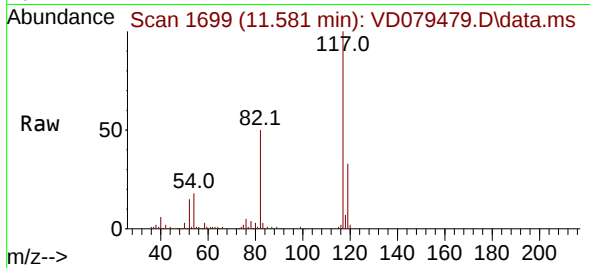
Tgt Ion: 95 Resp: 76211
Ion Ratio Lower Upper
95 100
174 99.7 0.0 195.4
176 96.7 0.0 192.6



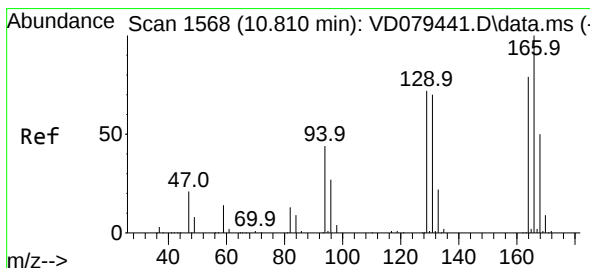
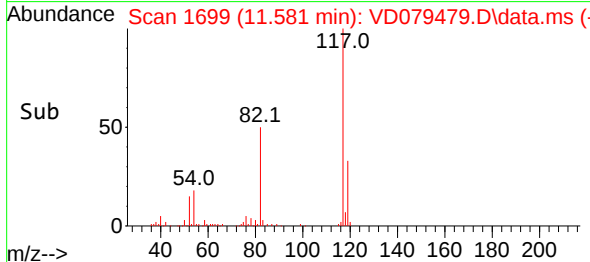
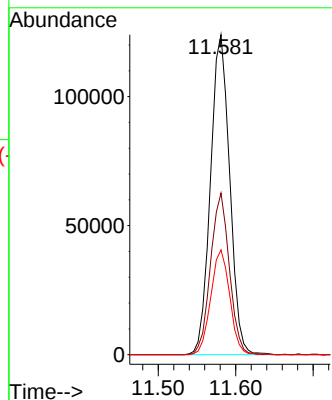


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

Instrument :
MSVOA_D
ClientSampleId :

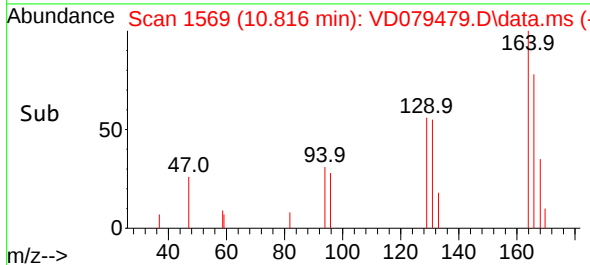
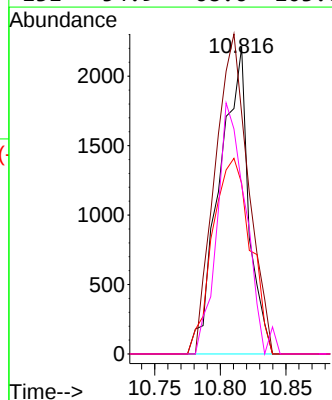
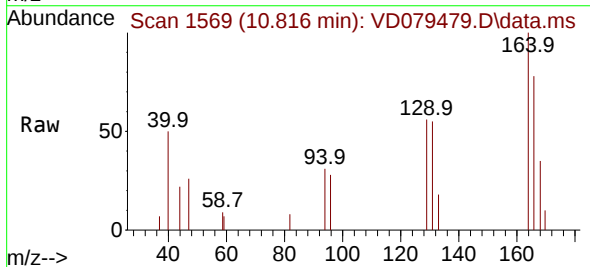


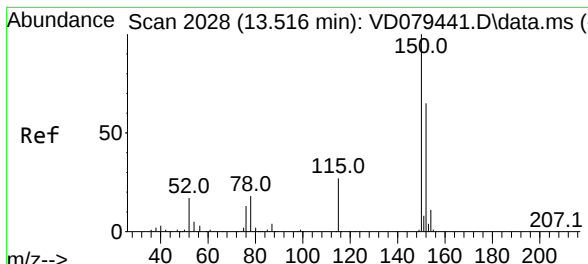
Tgt Ion:117 Resp: 213528
Ion Ratio Lower Upper
117 100
82 50.5 39.8 59.6
119 32.7 25.7 38.5



#64
Tetrachloroethene
Concen: 2.376 ug/l
RT: 10.816 min Scan# 1569
Delta R.T. 0.006 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

Tgt Ion:164 Resp: 3421
Ion Ratio Lower Upper
164 100
166 78.4 108.6 163.0#
129 55.6 74.6 112.0#
131 54.9 68.6 103.0#

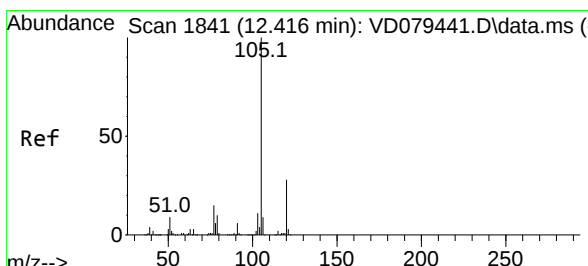
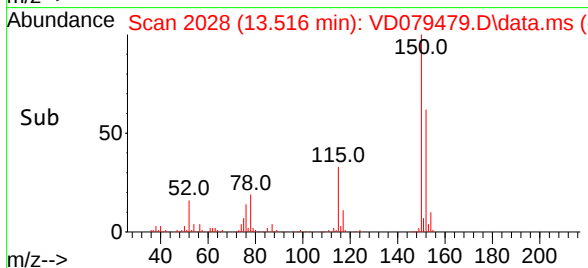
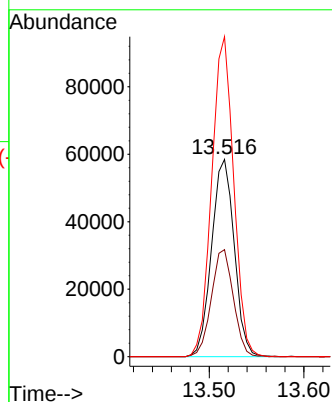
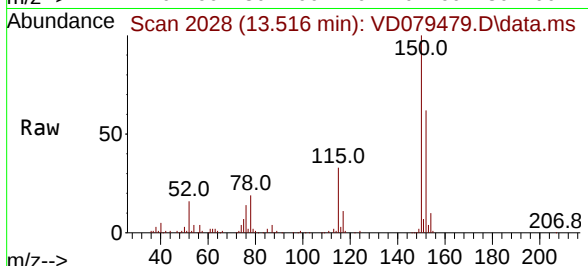




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. 0.006 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

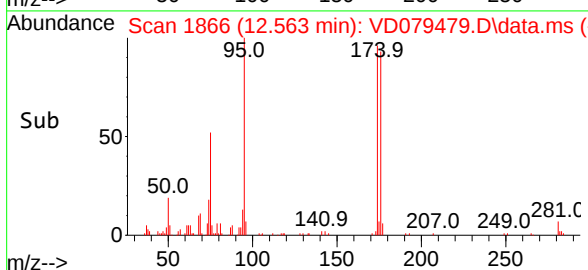
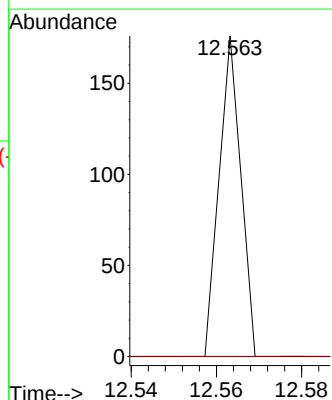
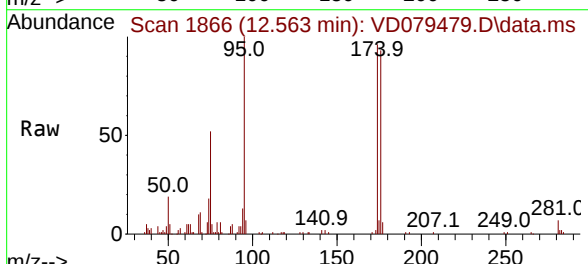
Instrument :
MSVOA_D
ClientSampleId :

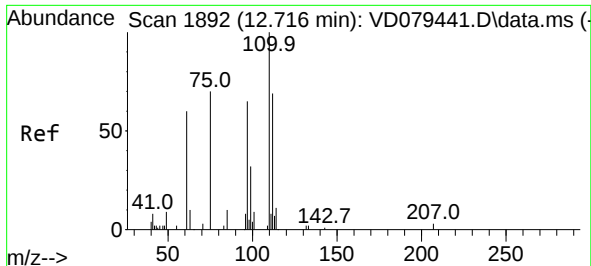
Tgt Ion:152 Resp: 97486
Ion Ratio Lower Upper
152 100
115 52.8 26.5 79.5
150 156.8 0.0 341.6



#73
Isopropylbenzene
Concen: 3.636 ug/l
RT: 12.563 min Scan# 1866
Delta R.T. 0.147 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

Tgt Ion:105 Resp: 62
Ion Ratio Lower Upper
105 100
120 0.0 13.6 40.7#

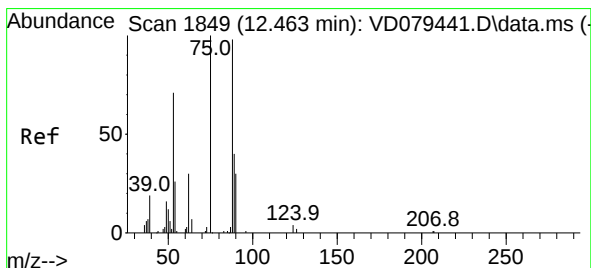
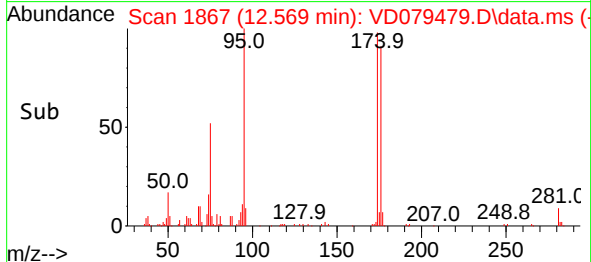
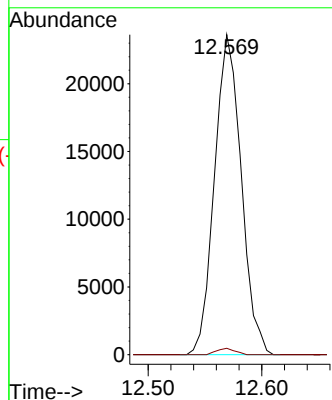
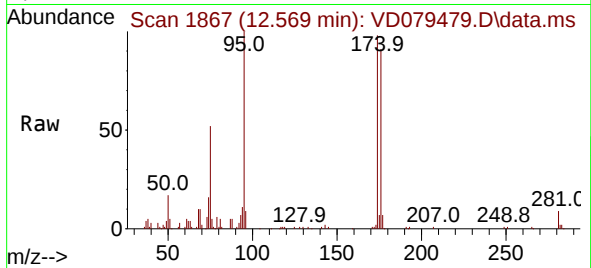




#76
1,2,3-Trichloropropane
Concen: 45.348 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.153 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

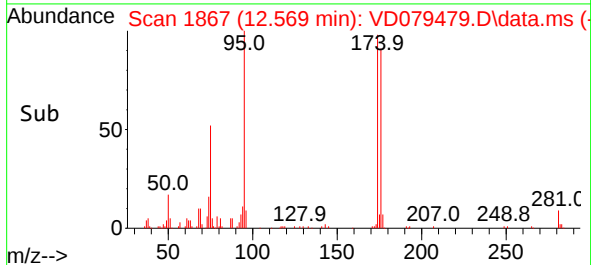
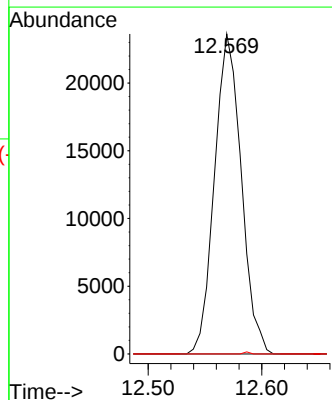
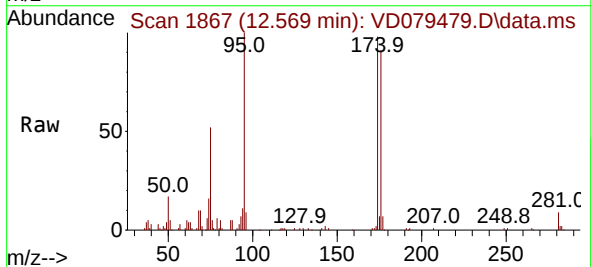
Instrument :
MSVOA_D
ClientSampleId :

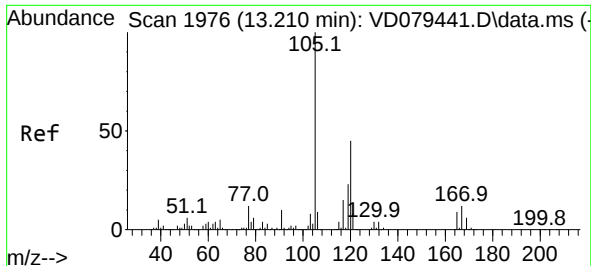
Tgt Ion: 75 Resp: 38642
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 86.491 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.100 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

Tgt Ion: 75 Resp: 38642
Ion Ratio Lower Upper
75 100
53 0.0 61.4 92.2#
89 0.1 35.4 53.0#

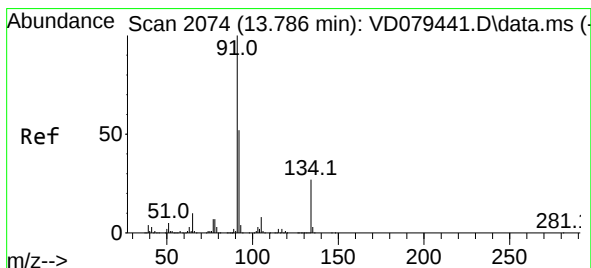
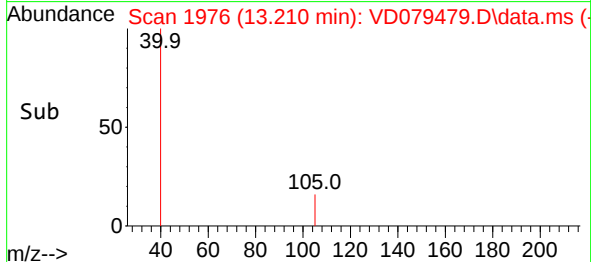
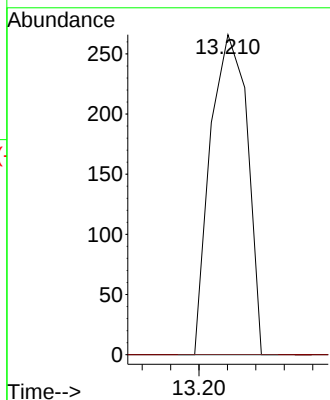
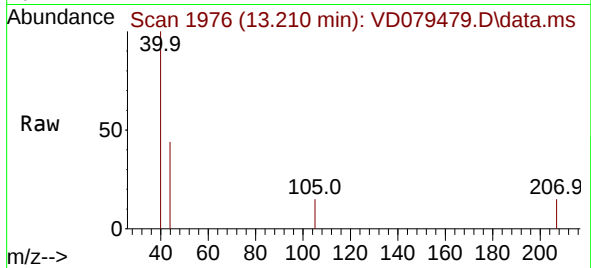




#84
1,2,4-Trimethylbenzene
Concen: 3.465 ug/l
RT: 13.210 min Scan# 1976
Delta R.T. 0.006 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:105 Resp: 240
Ion Ratio Lower Upper
105 100
120 0.0 23.6 71.0#



#89
n-Butylbenzene
Concen: 3.794 ug/l
RT: 13.793 min Scan# 2075
Delta R.T. 0.012 min
Lab File: VD079479.D
Acq: 31 Jul 2024 03:19

Tgt Ion: 91 Resp: 80
Ion Ratio Lower Upper
91 100
92 0.0 25.7 77.0#
134 0.0 13.6 40.8#

