

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD073024\
 Data File : VD079478.D
 Acq On : 31 Jul 2024 02:51
 Operator : RP/MD
 Sample : P3374-01
 Misc : 8.46G/5.0ml/MSVOA_D/SOIL/A
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S-864-K2-SO-12-12.5-072024

Quant Time: Jul 31 04:37:36 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)

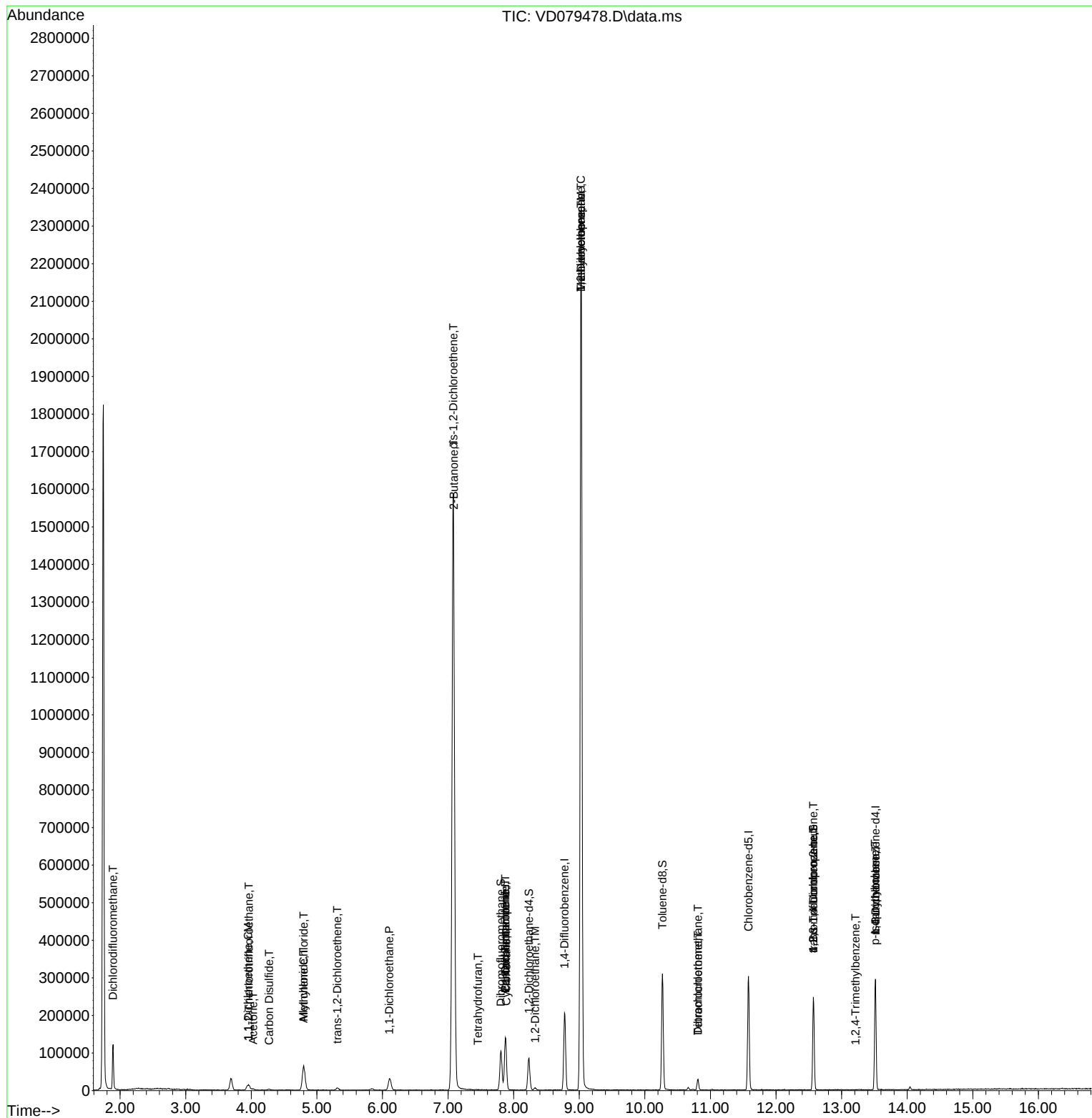
Internal Standards						
1) Pentafluorobenzene	7.875	168	113886	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	194688	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	188092	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	83995	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.234	65	64005	55.321	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.640%			
35) Dibromofluoromethane	7.804	113	75672	57.426	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 114.860%			
50) Toluene-d8	10.269	98	224676	43.906	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 87.820%			
62) 4-Bromofluorobenzene	12.569	95	66362	44.814	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 89.620%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.893	85	13797	15.462	ug/l	89
5) Bromomethane	2.681	94	185	Below Cal	#	50
9) 1,1,2-Trichlorotrifluo...	3.963	101	6814	5.542	ug/l #	71
12) 1,1-Dichloroethene	3.952	96	3961	3.219	ug/l #	58
13) Acrolein	3.711	56	67	Below Cal	#	15
14) Allyl chloride	4.793	41	1852	1.140	ug/l #	17
16) Acetone	4.028	43	5628	25.030	ug/l #	85
17) Carbon Disulfide	4.269	76	4920	1.211	ug/l #	95
20) Methylene Chloride	4.799	84	50494	22.929	ug/l	90
21) trans-1,2-Dichloroethene	5.310	96	3972	2.873	ug/l #	78
24) 1,1-Dichloroethane	6.104	63	45719	18.870	ug/l	94
25) 2-Butanone	7.087	43	484	1.518	ug/l #	1
27) cis-1,2-Dichloroethene	7.081	96	1059566	670.584	ug/l	99
29) Tetrahydrofuran	7.457	42	234	1.184	ug/l #	21
31) Cyclohexane	7.887	56	2514	1.308	ug/l #	56
36) 1,1-Dichloropropene	7.875	75	8464	4.706	ug/l #	47
38) Carbon Tetrachloride	7.875	117	11243	5.946	ug/l #	13
39) Methylcyclohexane	9.028	83	10857	5.059	ug/l #	1
42) 1,2-Dichloroethane	8.328	62	5363	3.940	ug/l	92
44) Trichloroethene	9.028	130	888640	624.899	ug/l	97
45) 1,2-Dichloropropane	9.028	63	2347	1.688	ug/l #	1
60) Dibromochloromethane	10.810	129	6390	4.818	ug/l #	11
64) Tetrachloroethene	10.810	164	7429	5.857	ug/l	90
76) 1,2,3-Trichloropropane	12.569	75	33847	46.101	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.569	75	33847	87.926	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.210	105	163	3.457	ug/l	82
86) p-Isopropyltoluene	13.510	119	59	3.896	ug/l #	1
89) n-Butylbenzene	13.516	91	203	3.817	ug/l #	34

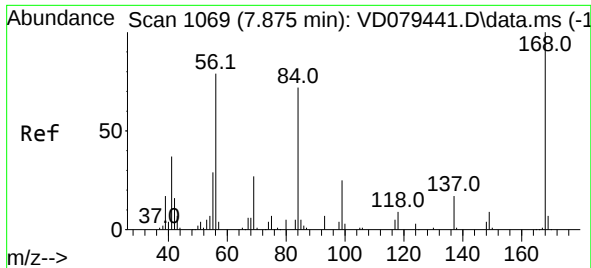
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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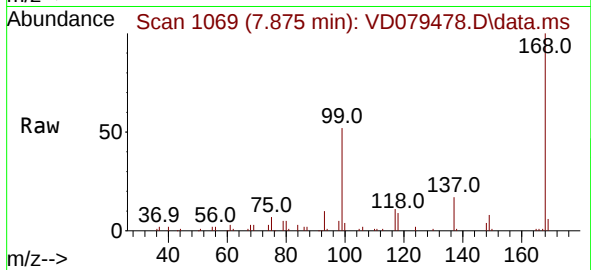
Quant Time: Jul 31 04:37:36 2024
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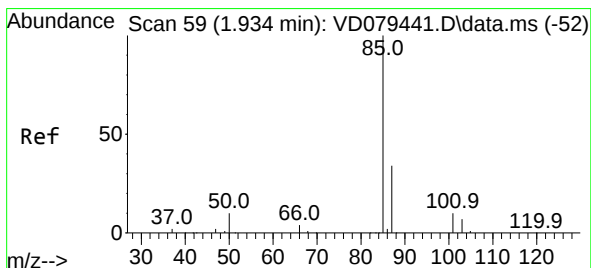
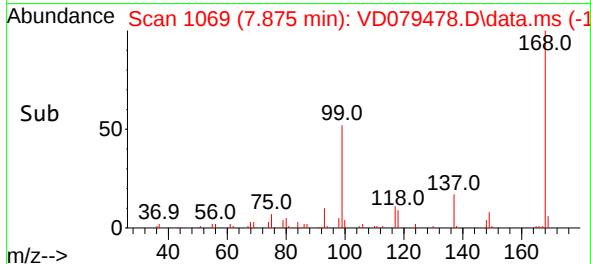
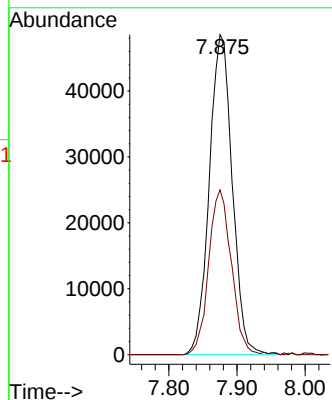


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-12-12.5-072024

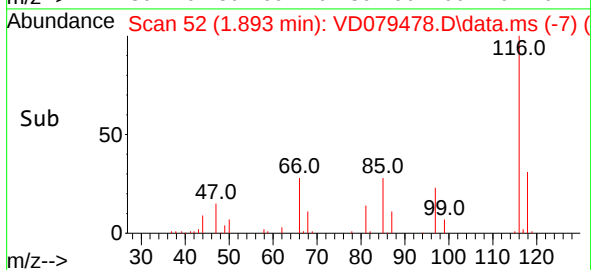
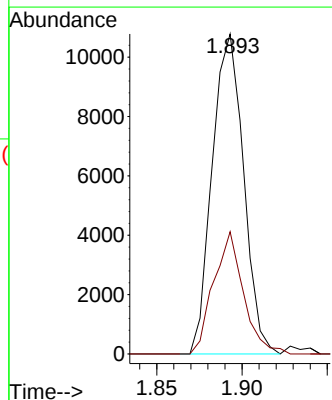
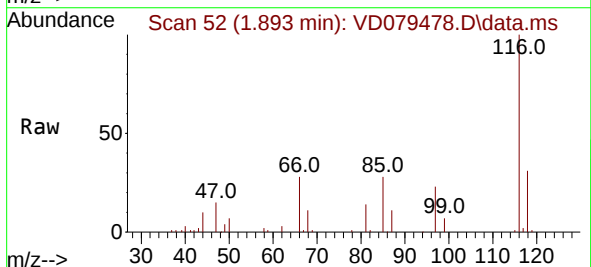


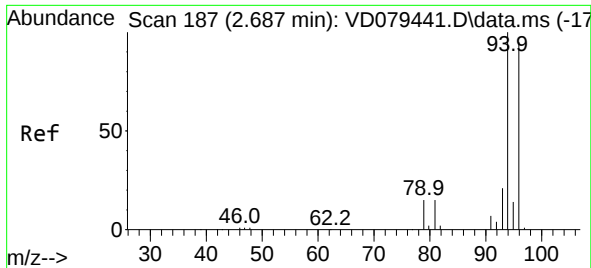
Tgt Ion:168 Resp: 113886
Ion Ratio Lower Upper
168 100
99 51.5 41.1 61.7



#2
Dichlorodifluoromethane
Concen: 15.462 ug/l
RT: 1.893 min Scan# 52
Delta R.T. -0.035 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

Tgt Ion: 85 Resp: 13797
Ion Ratio Lower Upper
85 100
87 38.2 16.0 48.0

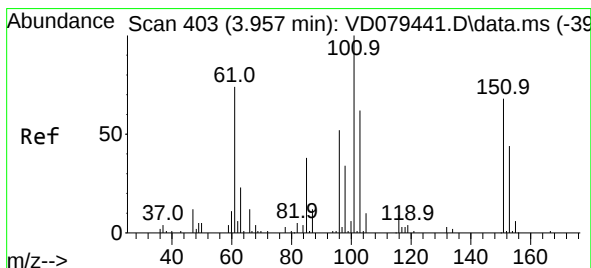
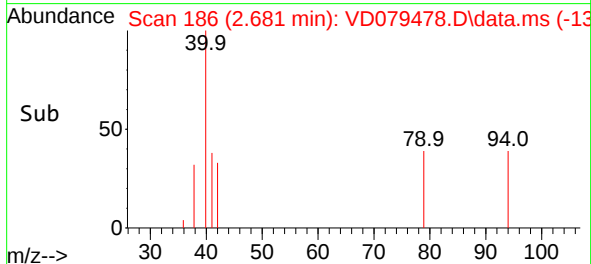
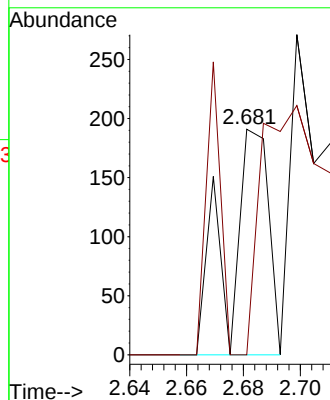
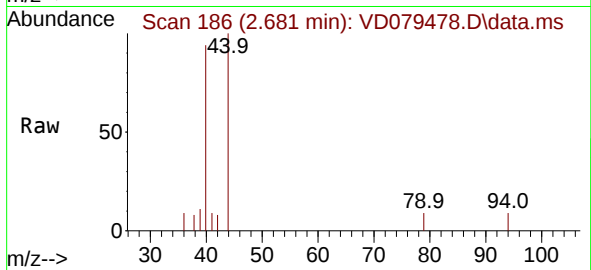




#5
Bromomethane
Concen: Below Cal
RT: 2.681 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

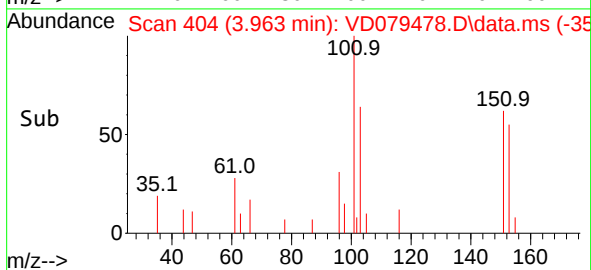
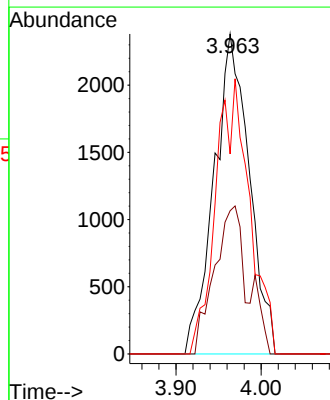
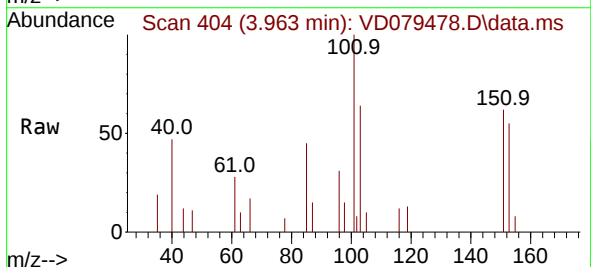
Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-12-12.5-072024

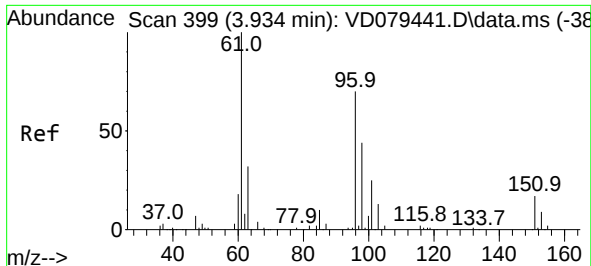
Tgt Ion: 94 Resp: 185
Ion Ratio Lower Upper
94 100
96 47.6 76.9 115.3#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.542 ug/l
RT: 3.963 min Scan# 404
Delta R.T. -0.000 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

Tgt Ion:101 Resp: 6814
Ion Ratio Lower Upper
101 100
85 38.0 33.5 50.3
151 39.9 60.3 90.5#





#12

1,1-Dichloroethene

Concen: 3.219 ug/l

RT: 3.952 min Scan# 402

Delta R.T. 0.023 min

Lab File: VD079478.D

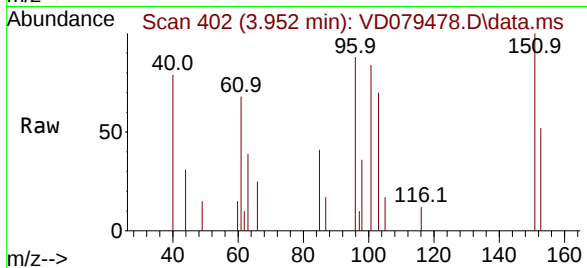
Acq: 31 Jul 2024 02:51

Instrument :

MSVOA_D

ClientSampleId :

S-864-K2-SO-12-12.5-072024



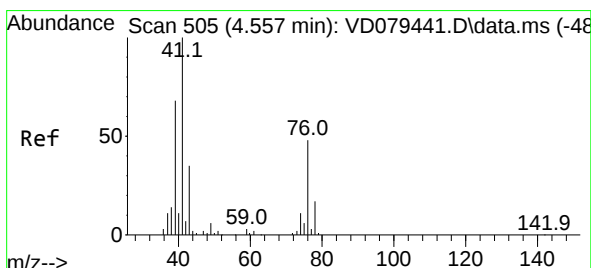
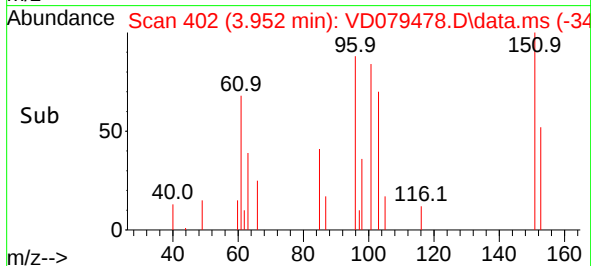
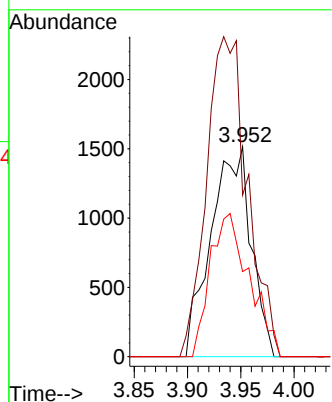
Tgt Ion: 96 Resp: 3961

Ion Ratio Lower Upper

96 100

61 77.0 107.3 160.9#

98 40.5 51.7 77.5#



#14

Allyl chloride

Concen: 1.140 ug/l

RT: 4.793 min Scan# 545

Delta R.T. 0.241 min

Lab File: VD079478.D

Acq: 31 Jul 2024 02:51

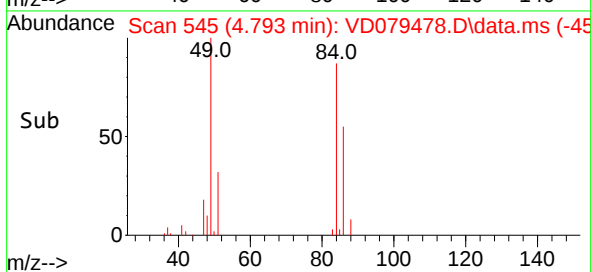
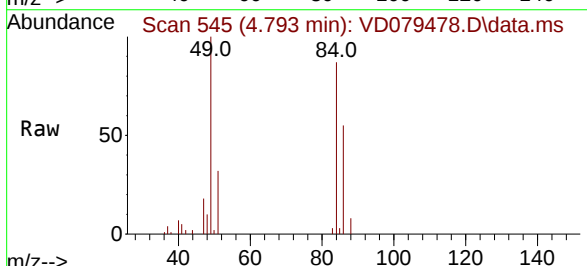
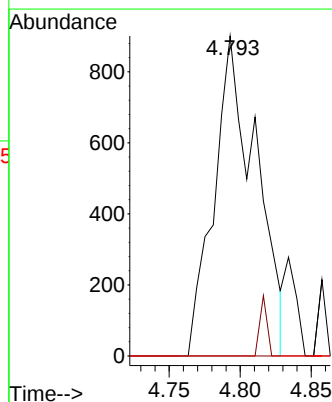
Tgt Ion: 41 Resp: 1852

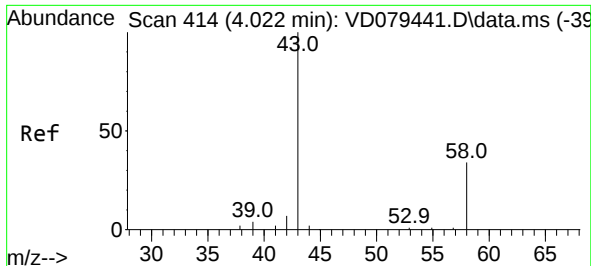
Ion Ratio Lower Upper

41 100

39 0.0 58.0 87.0#

76 0.0 45.9 68.9#

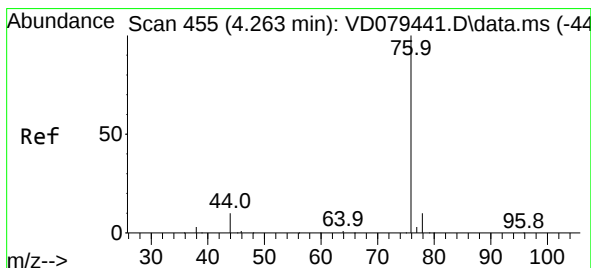
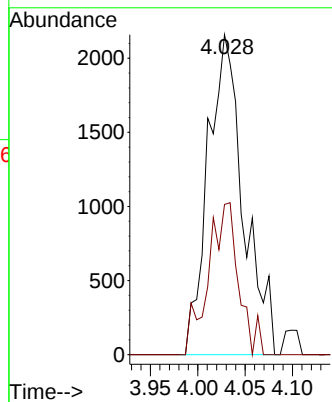
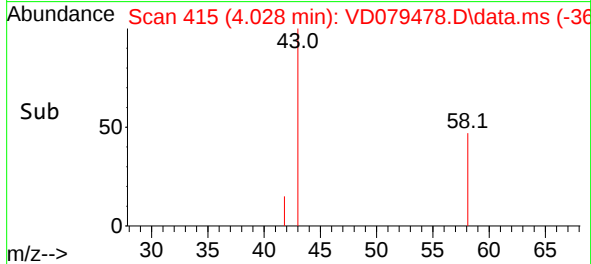
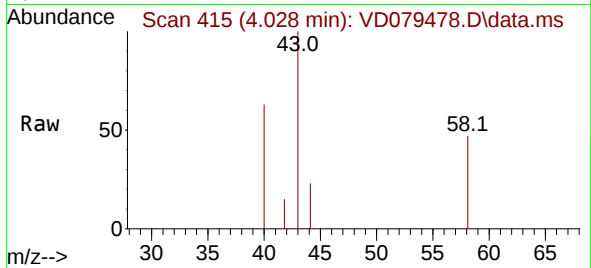




#16
Acetone
Concen: 25.030 ug/l
RT: 4.028 min Scan# 414
Delta R.T. 0.006 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

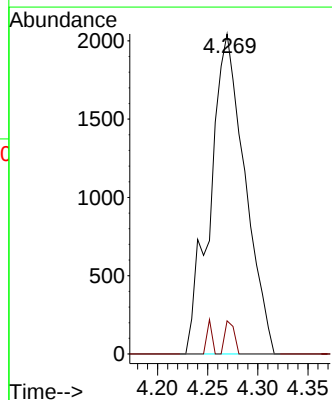
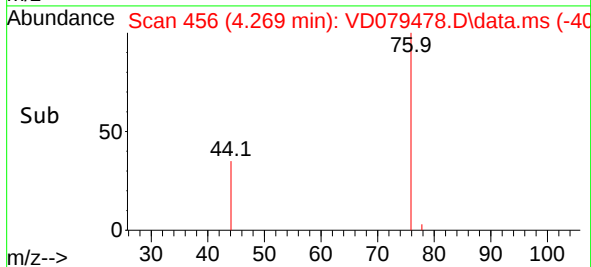
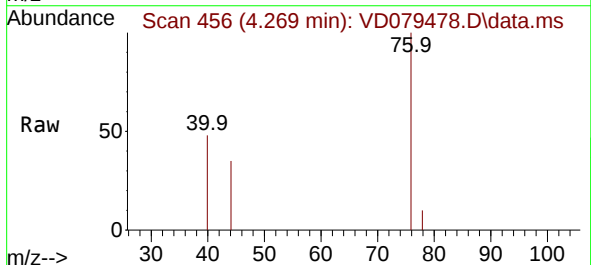
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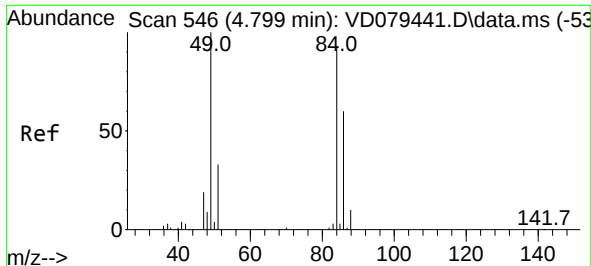
Tgt Ion: 43 Resp: 5628
Ion Ratio Lower Upper
43 100
58 47.0 30.4 45.6#



#17
Carbon Disulfide
Concen: 1.211 ug/l
RT: 4.269 min Scan# 456
Delta R.T. 0.006 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

Tgt Ion: 76 Resp: 4920
Ion Ratio Lower Upper
76 100
78 10.4 6.9 10.3#

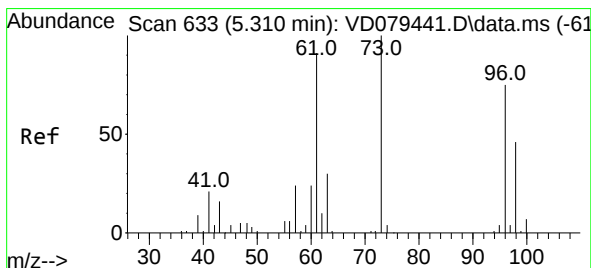
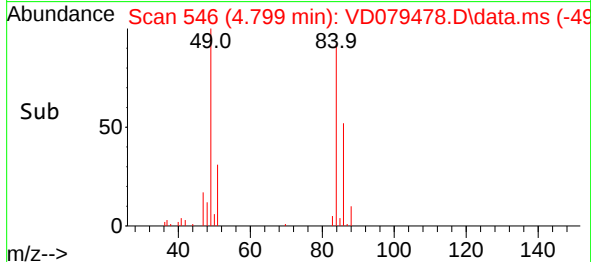
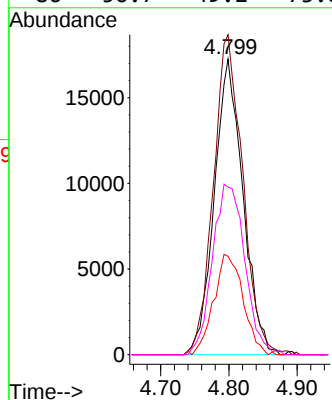
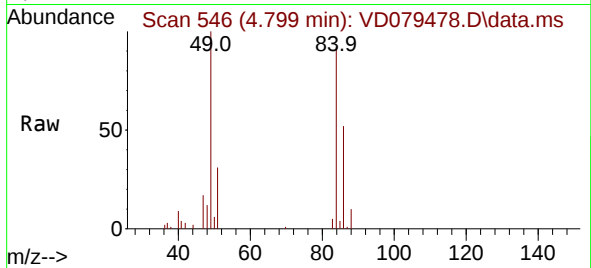




#20
Methylene Chloride
Concen: 22.929 ug/l
RT: 4.799 min Scan# 546
Delta R.T. -0.000 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

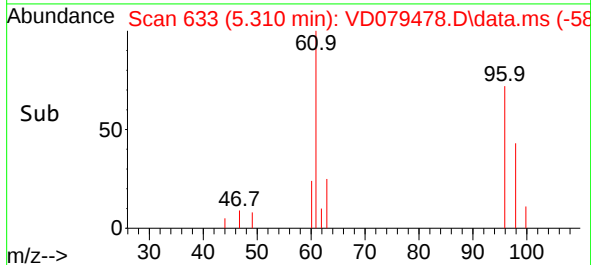
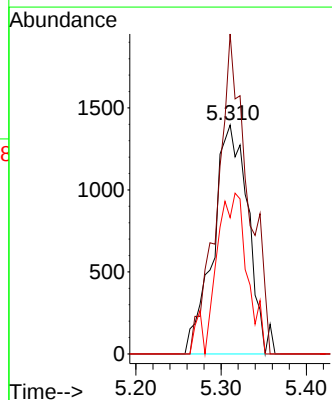
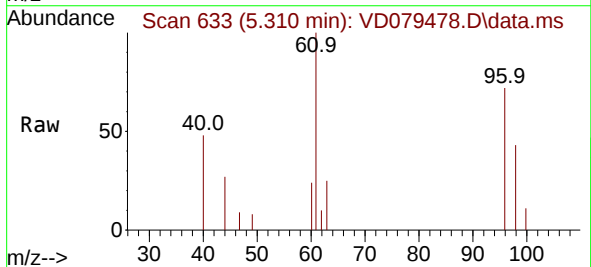
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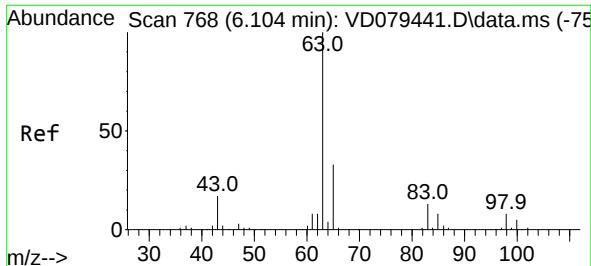
Tgt Ion:	84	Resp:	50494
Ion	Ratio	Lower	Upper
84	100		
49	108.3	75.6	113.4
51	33.3	24.2	36.2
86	56.7	49.2	73.8



#21
trans-1,2-Dichloroethene
Concen: 2.873 ug/l
RT: 5.310 min Scan# 633
Delta R.T. -0.000 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

Tgt Ion:	96	Resp:	3972
Ion	Ratio	Lower	Upper
96	100		
61	139.8	84.5	126.7#
98	59.5	50.5	75.7

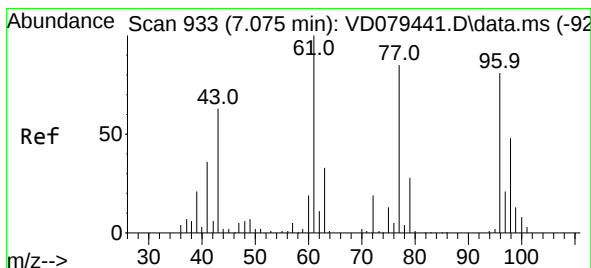
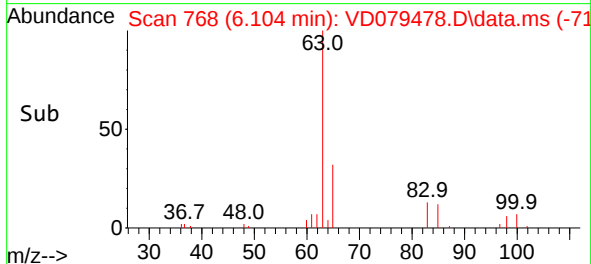
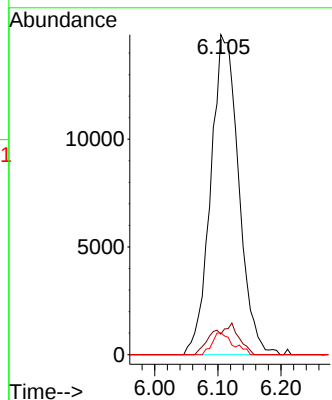
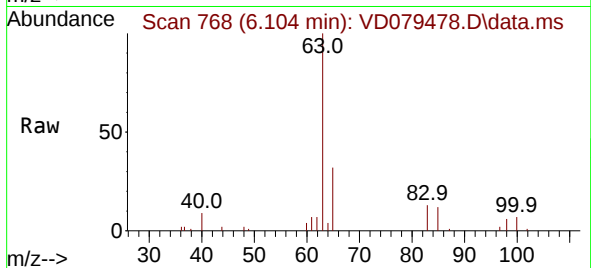




#24
1,1-Dichloroethane
Concen: 18.870 ug/l
RT: 6.104 min Scan# 768
Delta R.T. -0.000 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

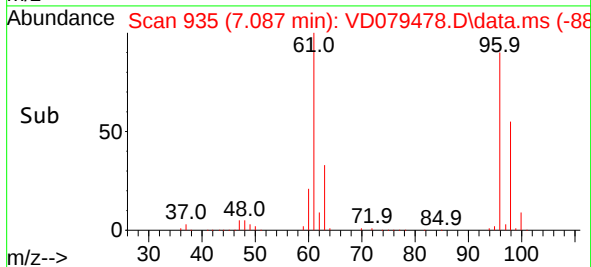
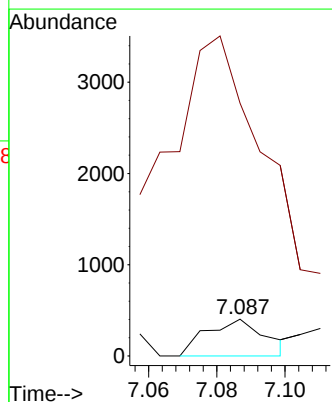
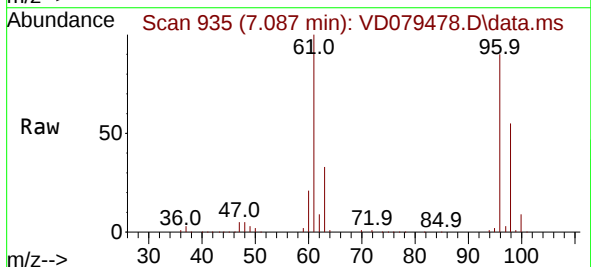
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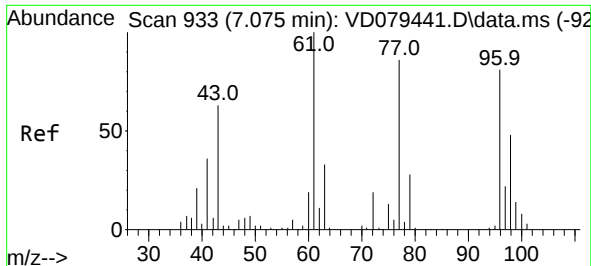
Tgt Ion: 63 Resp: 45719
Ion Ratio Lower Upper
63 100
98 6.4 4.7 14.0
100 6.8 2.9 8.6



#25
2-Butanone
Concen: 1.518 ug/l
RT: 7.087 min Scan# 935
Delta R.T. -0.006 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

Tgt Ion: 43 Resp: 484
Ion Ratio Lower Upper
43 100
72 168.6 26.4 39.6#



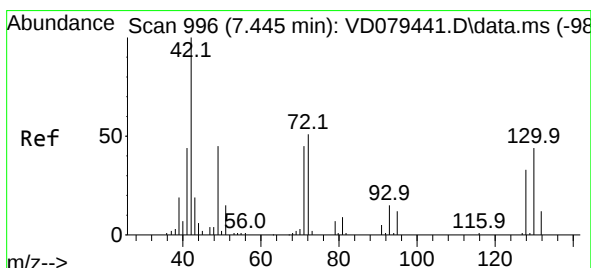
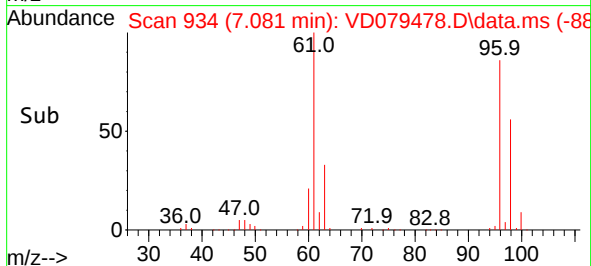
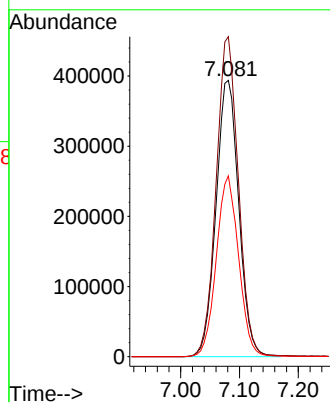
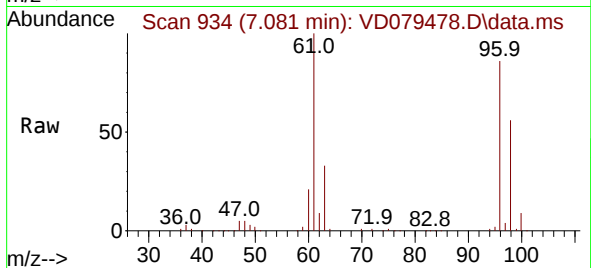


#27
 cis-1,2-Dichloroethene
 Concen: 670.584 ug/l
 RT: 7.081 min Scan# 91
 Delta R.T. 0.006 min
 Lab File: VD079478.D
 Acq: 31 Jul 2024 02:51

Instrument :
 MSVOA_D
 ClientSampleId :
 S-864-K2-SO-12-12.5-072024

Tgt Ion: 96 Resp: 1059566

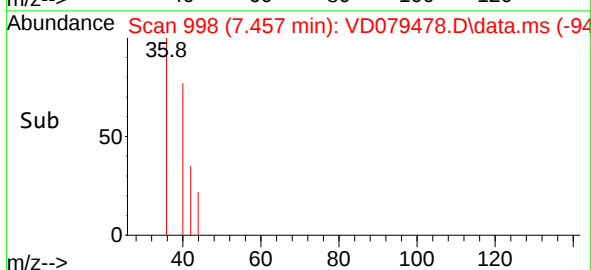
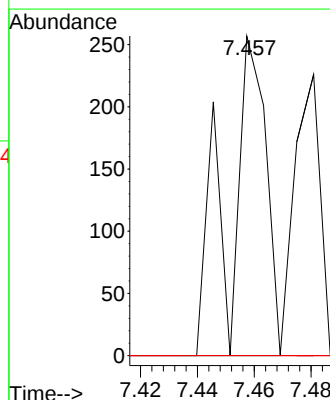
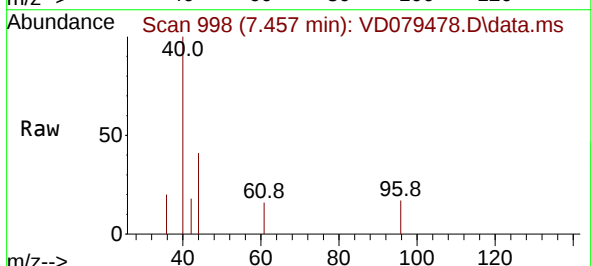
Ion	Ratio	Lower	Upper
96	100		
61	113.2	0.0	229.0
98	64.3	0.0	127.2

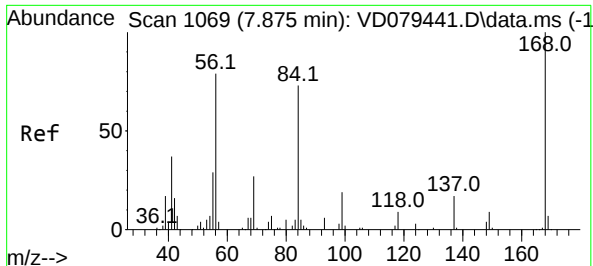


#29
 Tetrahydrofuran
 Concen: 1.184 ug/l
 RT: 7.457 min Scan# 998
 Delta R.T. 0.012 min
 Lab File: VD079478.D
 Acq: 31 Jul 2024 02:51

Tgt Ion: 42 Resp: 234

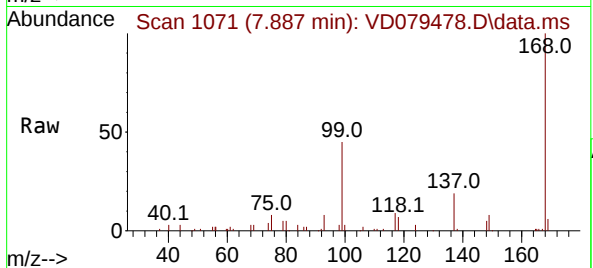
Ion	Ratio	Lower	Upper
42	100		
72	0.0	49.4	74.0#
71	0.0	45.0	67.6#



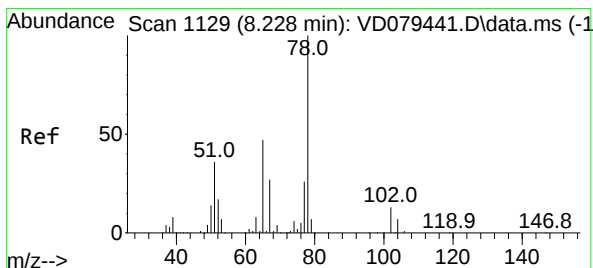
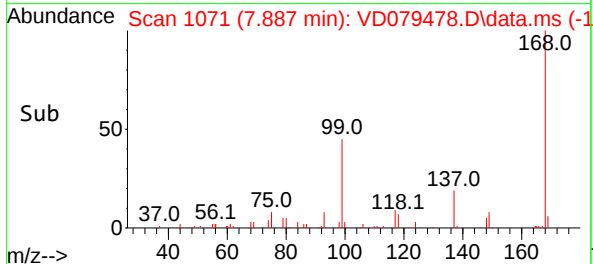
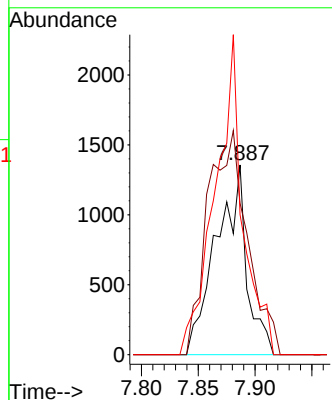


#31
Cyclohexane
Concen: 1.308 ug/l
RT: 7.887 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-12-12.5-072024

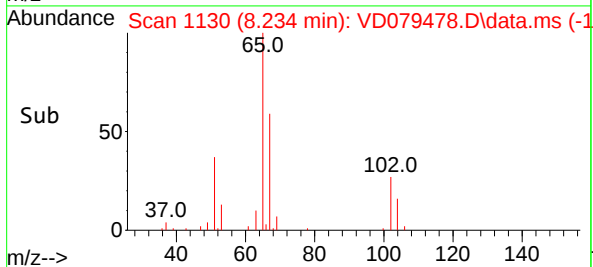
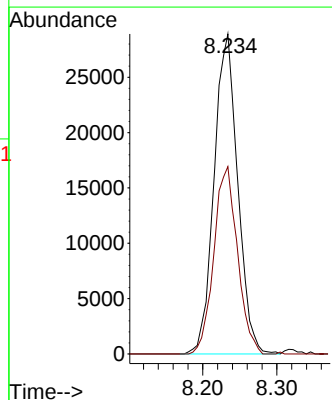
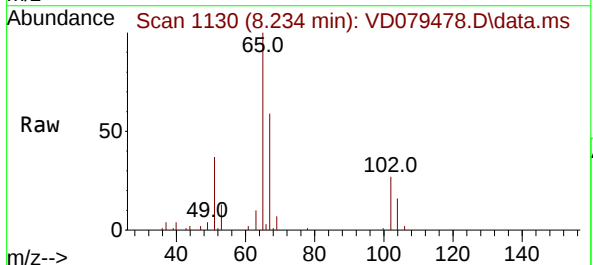


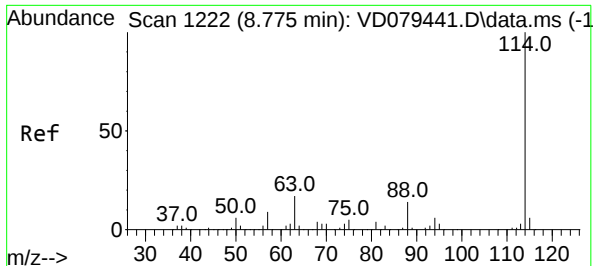
Tgt Ion: 56 Resp: 2514
Ion Ratio Lower Upper
56 100
69 79.8 28.0 42.0#
84 73.8 87.4 131.0#



#33
1,2-Dichloroethane-d4
Concen: 55.321 ug/l
RT: 8.234 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

Tgt Ion: 65 Resp: 64005
Ion Ratio Lower Upper
65 100
67 58.5 0.0 111.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. -0.000 min

Lab File: VD079478.D

Acq: 31 Jul 2024 02:51

Instrument :

MSVOA_D

ClientSampleId :

S-864-K2-SO-12-12.5-072024

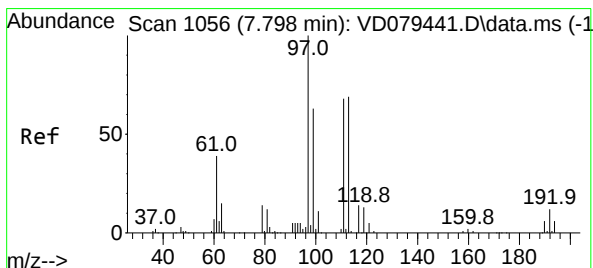
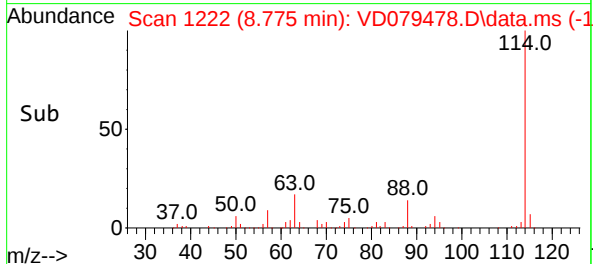
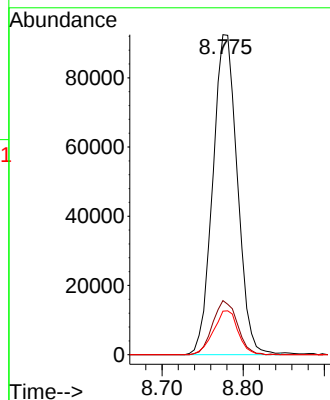
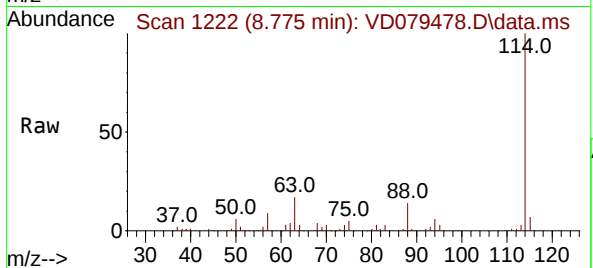
Tgt Ion:114 Resp: 194688

Ion Ratio Lower Upper

114 100

63 16.9 0.0 34.0

88 13.6 0.0 27.2



#35

Dibromofluoromethane

Concen: 57.426 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VD079478.D

Acq: 31 Jul 2024 02:51

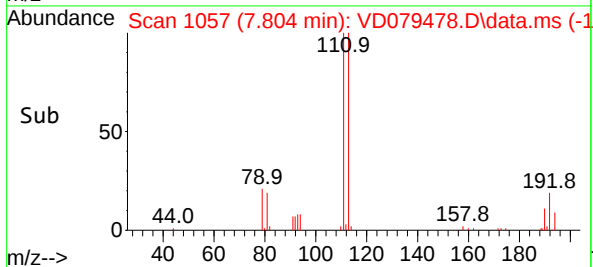
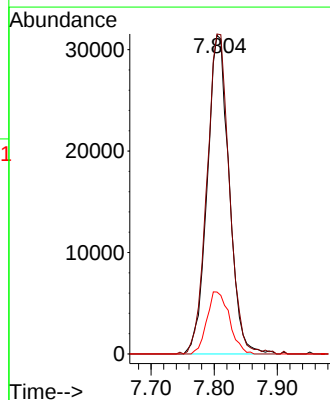
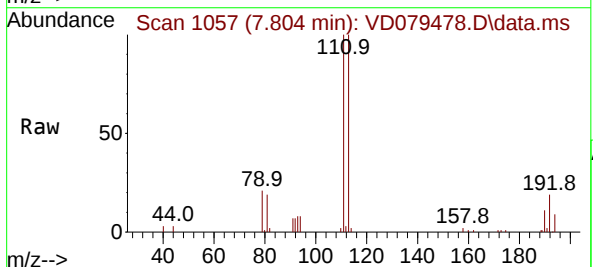
Tgt Ion:113 Resp: 75672

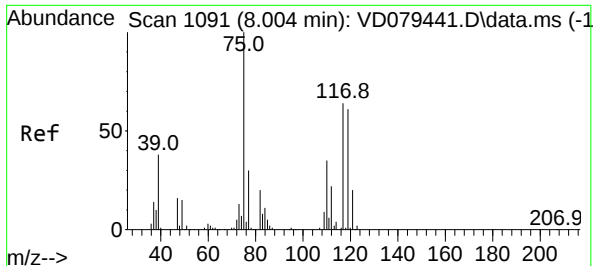
Ion Ratio Lower Upper

113 100

111 102.7 84.0 126.0

192 19.9 15.4 23.0





#36

1,1-Dichloropropene

Concen: 4.706 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.135 min

Lab File: VD079478.D

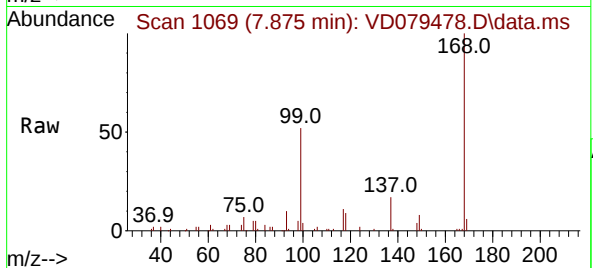
Acq: 31 Jul 2024 02:51

Instrument :

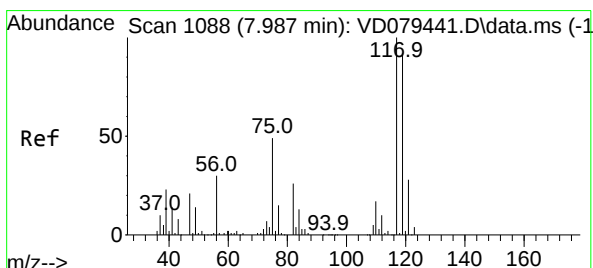
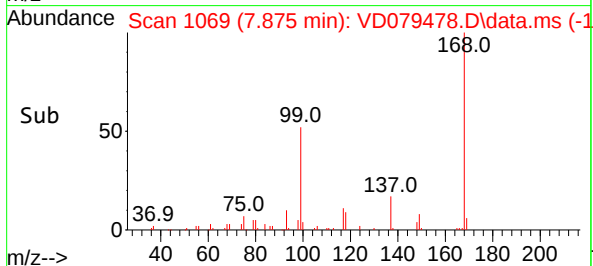
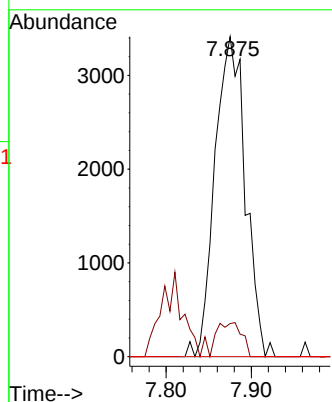
MSVOA_D

ClientSampleId :

S-864-K2-SO-12-12.5-072024



Tgt Ion:	75	Resp:	8464
Ion Ratio	100	Lower	Upper
110	9.6	19.6	58.7#
77	0.0	26.1	39.1#



#38

Carbon Tetrachloride

Concen: 5.946 ug/l

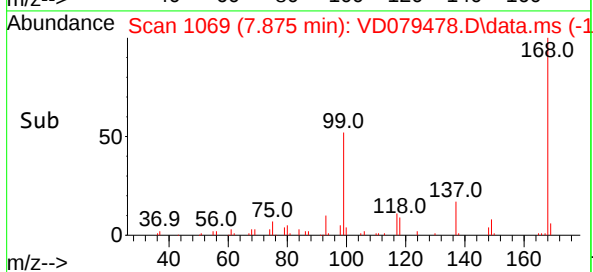
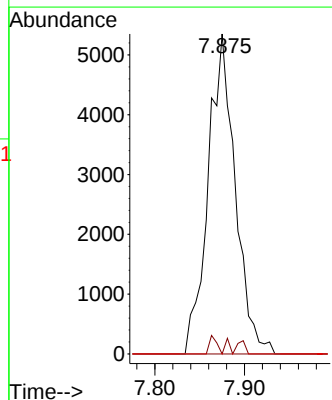
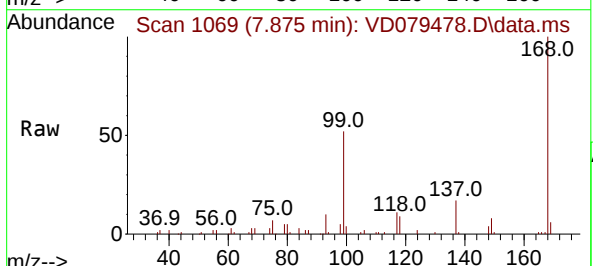
RT: 7.875 min Scan# 1069

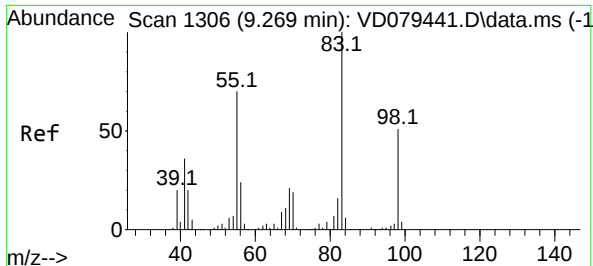
Delta R.T. -0.112 min

Lab File: VD079478.D

Acq: 31 Jul 2024 02:51

Tgt Ion:	117	Resp:	11243
Ion Ratio	100	Lower	Upper
119	0.0	75.4	113.0#
121	0.0	25.0	37.4#





#39

Methylcyclohexane

Concen: 5.059 ug/l

RT: 9.028 min Scan# 1126

Delta R.T. -0.247 min

Lab File: VD079478.D

Acq: 31 Jul 2024 02:51

Instrument :

MSVOA_D

ClientSampleId :

S-864-K2-SO-12-12.5-072024

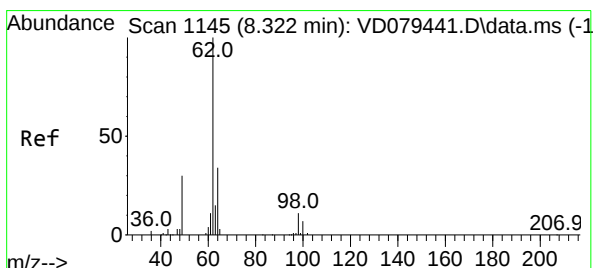
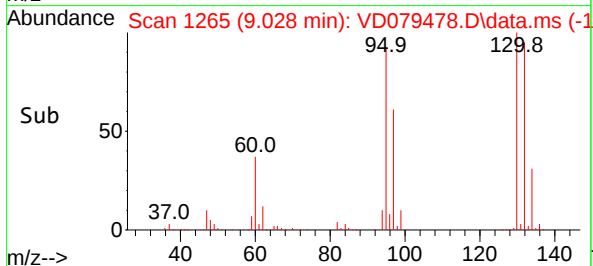
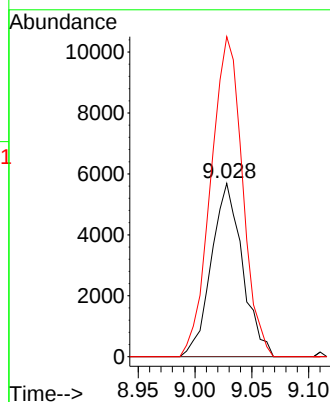
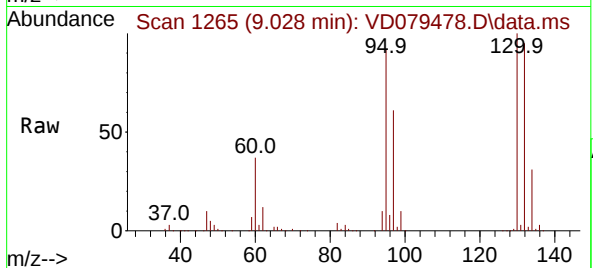
Tgt Ion: 83 Resp: 10857

Ion Ratio Lower Upper

83 100

55 0.0 50.1 75.1#

98 184.6 41.9 62.9#



#42

1,2-Dichloroethane

Concen: 3.940 ug/l

RT: 8.328 min Scan# 1146

Delta R.T. 0.006 min

Lab File: VD079478.D

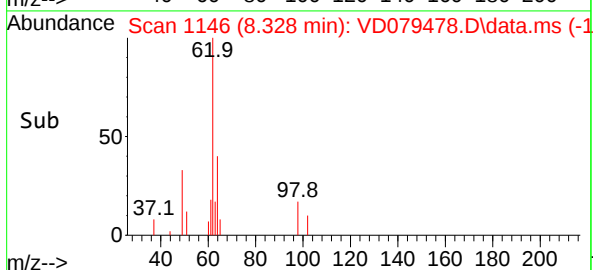
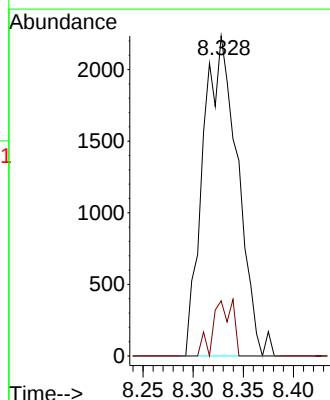
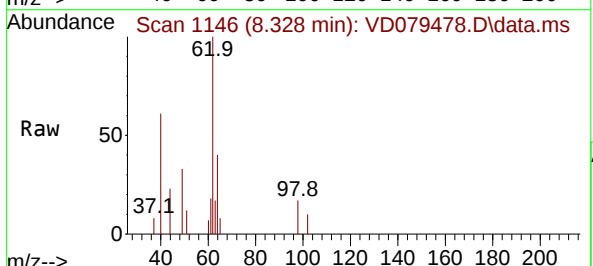
Acq: 31 Jul 2024 02:51

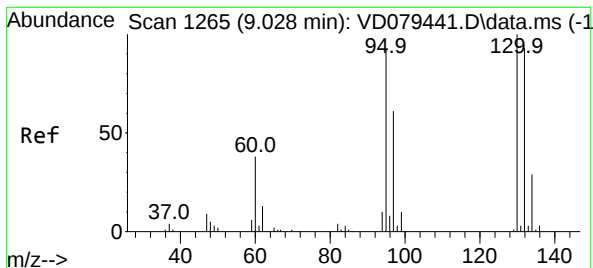
Tgt Ion: 62 Resp: 5363

Ion Ratio Lower Upper

62 100

98 9.9 0.0 25.8





#44

Trichloroethene

Concen: 624.899 ug/l

RT: 9.028 min Scan# 1265

Delta R.T. -0.000 min

Lab File: VD079478.D

Acq: 31 Jul 2024 02:51

Instrument :

MSVOA_D

ClientSampleId :

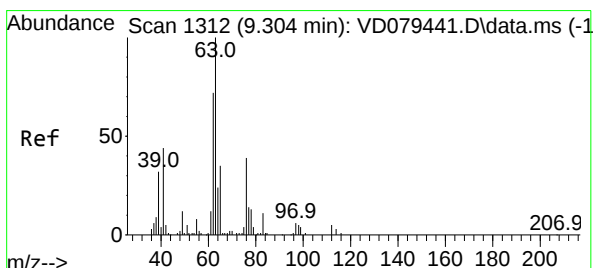
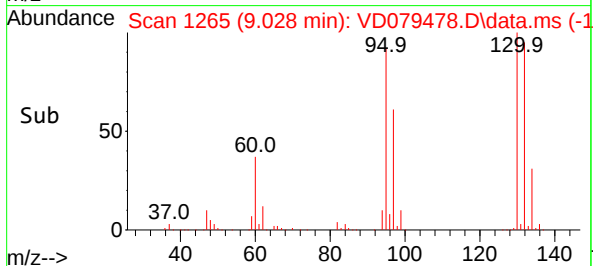
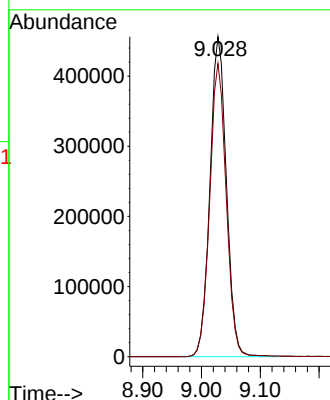
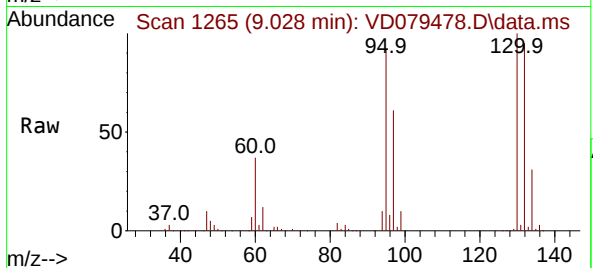
S-864-K2-SO-12-12.5-072024

Tgt Ion:130 Resp: 888640

Ion Ratio Lower Upper

130 100

95 91.6 0.0 177.8



#45

1,2-Dichloropropane

Concen: 1.688 ug/l

RT: 9.028 min Scan# 1265

Delta R.T. -0.271 min

Lab File: VD079478.D

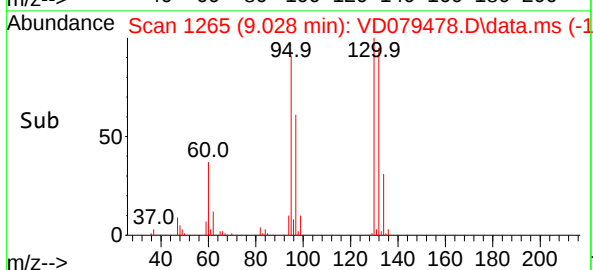
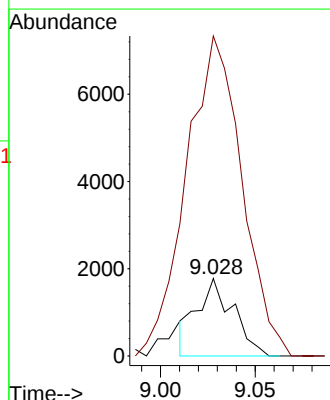
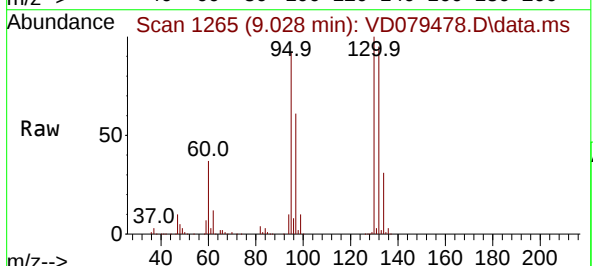
Acq: 31 Jul 2024 02:51

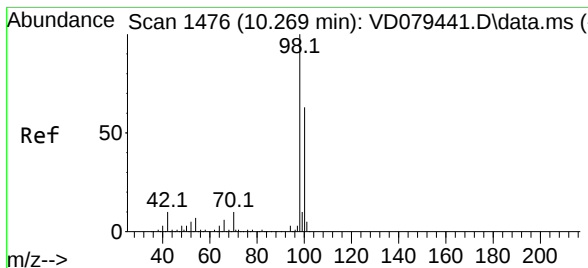
Tgt Ion: 63 Resp: 2347

Ion Ratio Lower Upper

63 100

65 390.2 23.8 35.8#

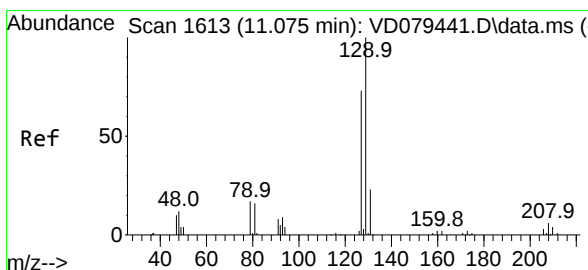
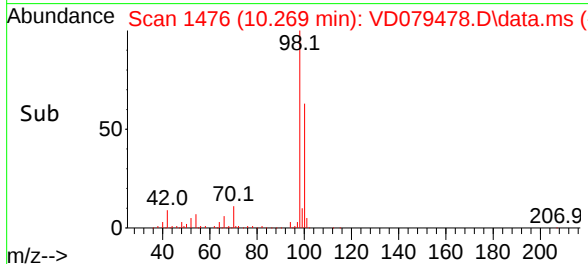
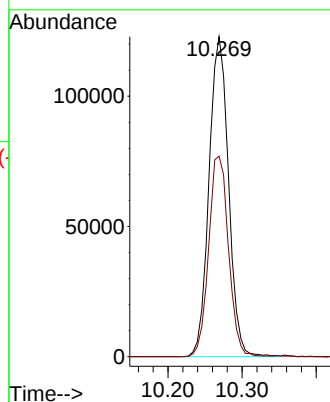
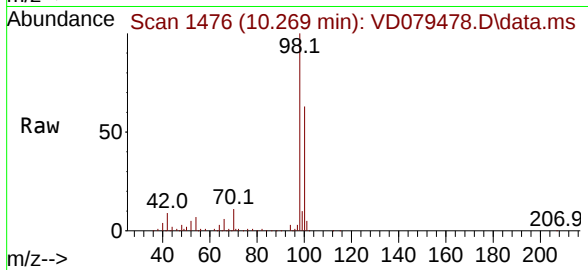




#50
Toluene-d8
Concen: 43.906 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

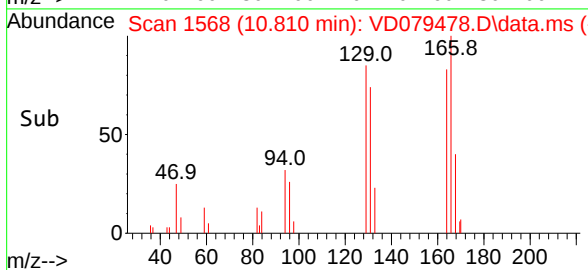
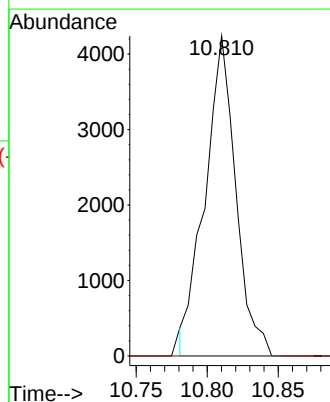
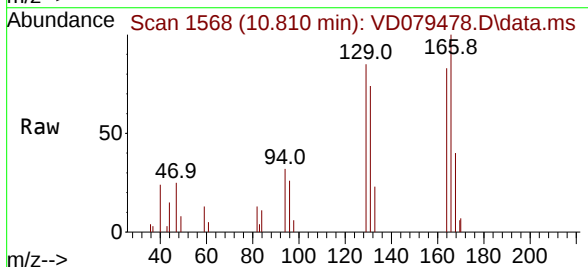
Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-12-12.5-072024

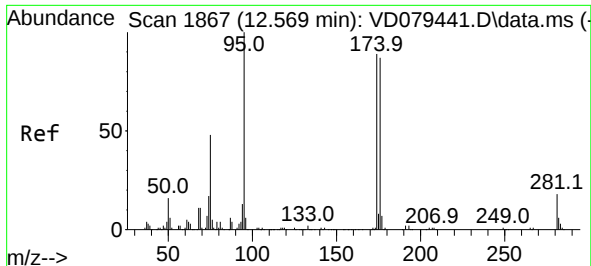
Tgt Ion: 98 Resp: 224676
Ion Ratio Lower Upper
98 100
100 63.9 51.6 77.4



#60
Dibromochloromethane
Concen: 4.818 ug/l
RT: 10.810 min Scan# 1568
Delta R.T. -0.259 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

Tgt Ion:129 Resp: 6390
Ion Ratio Lower Upper
129 100
127 0.0 38.0 113.9#

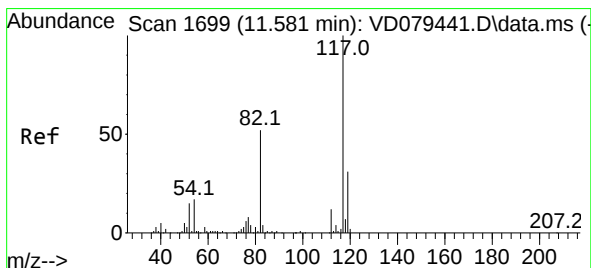
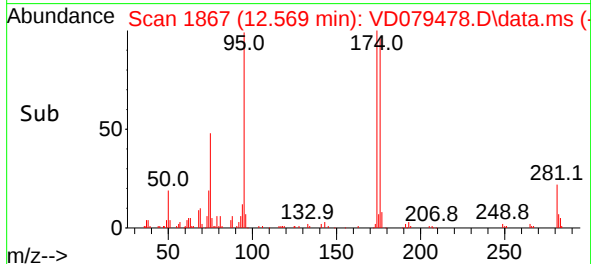
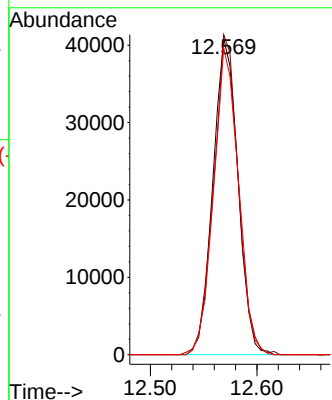
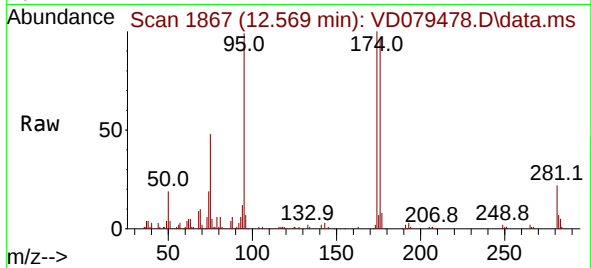




#62
4-Bromofluorobenzene
Concen: 44.814 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

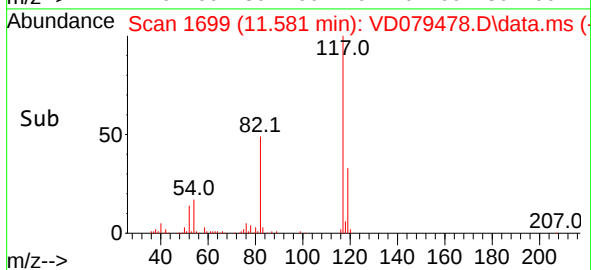
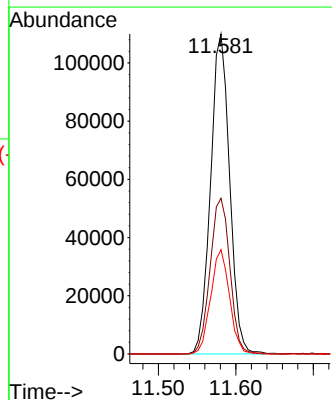
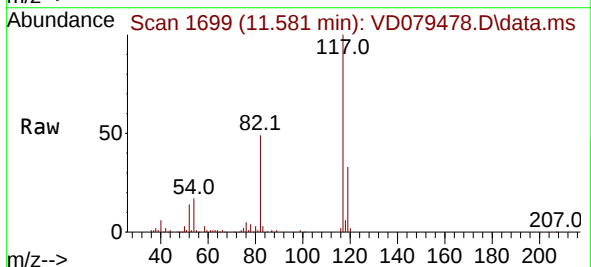
Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-12-12.5-072024

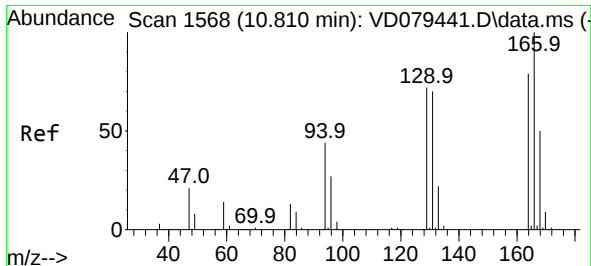
Tgt Ion:	95	Resp:	66362
Ion	Ratio	Lower	Upper
95	100		
174	100.5	0.0	195.4
176	96.7	0.0	192.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

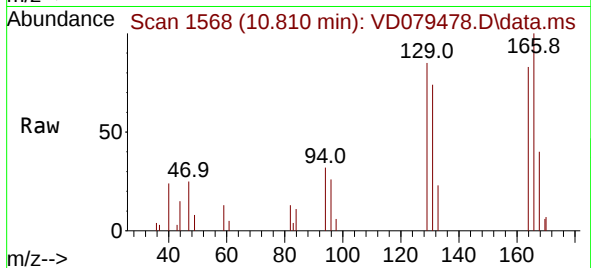
Tgt Ion:	117	Resp:	188092
Ion	Ratio	Lower	Upper
117	100		
82	48.7	39.8	59.6
119	32.6	25.7	38.5



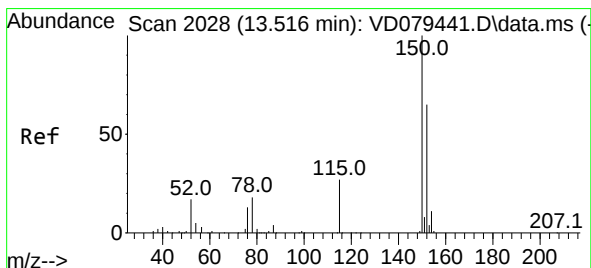
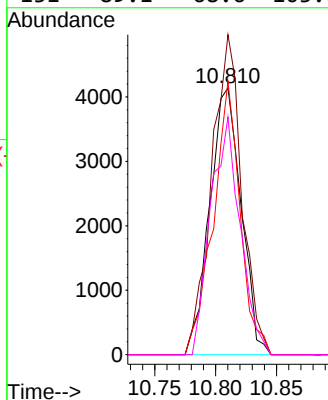
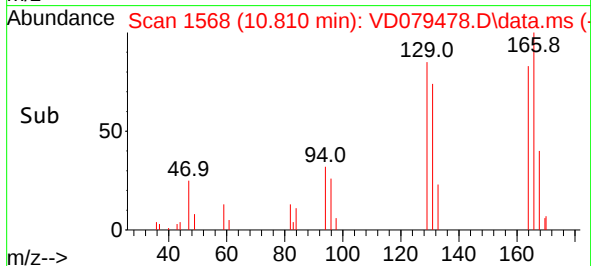


#64
Tetrachloroethene
Concen: 5.857 ug/l
RT: 10.810 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

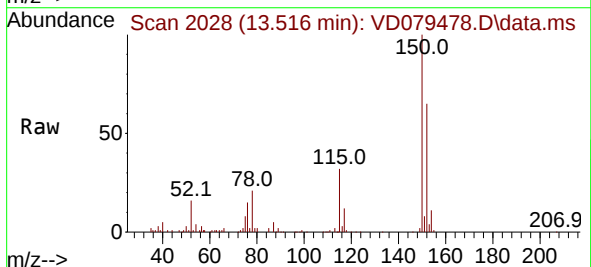
Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-12-12.5-072024



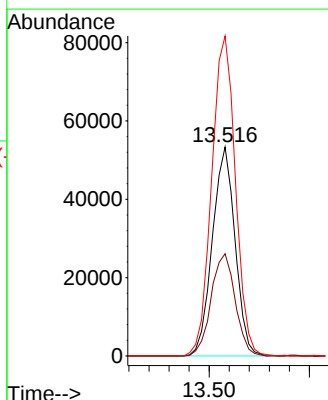
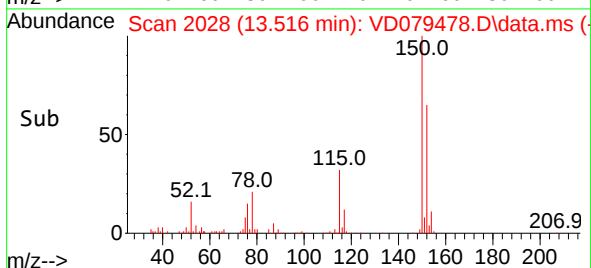
Tgt Ion:164 Resp: 7429
Ion Ratio Lower Upper
164 100
166 120.0 108.6 163.0
129 102.4 74.6 112.0
131 89.1 68.6 103.0

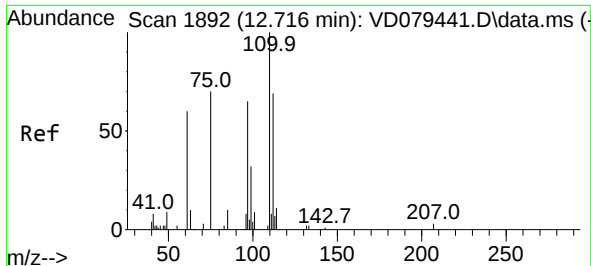


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. 0.006 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51



Tgt Ion:152 Resp: 83995
Ion Ratio Lower Upper
152 100
115 51.8 26.5 79.5
150 159.4 0.0 341.6

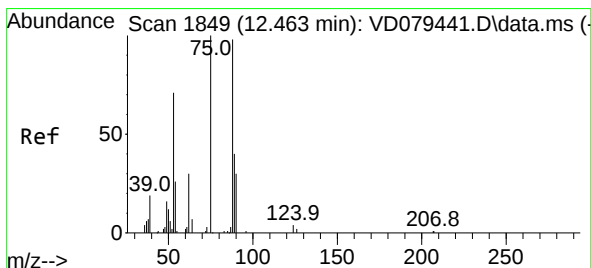
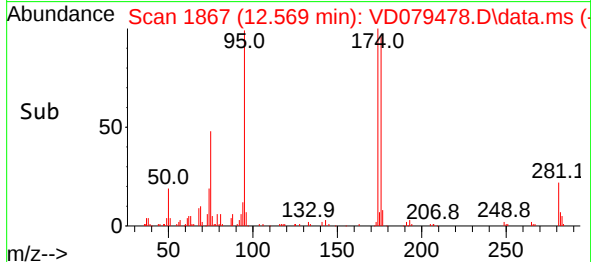
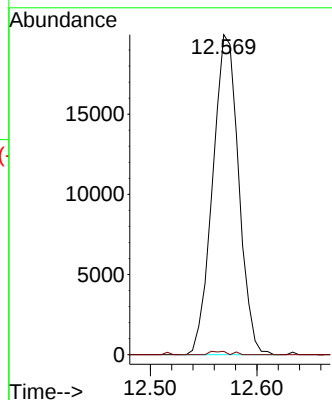
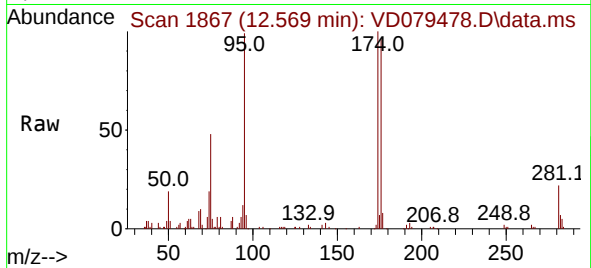




#76
1,2,3-Trichloropropane
Concen: 46.101 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.153 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

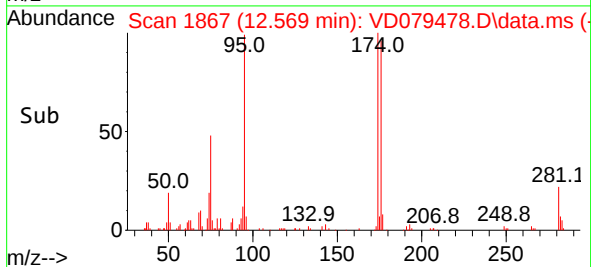
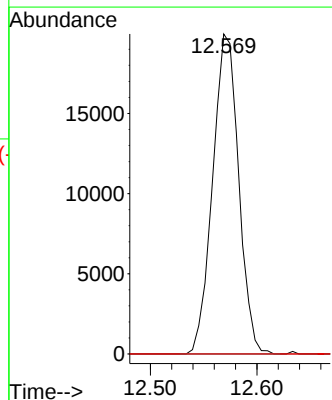
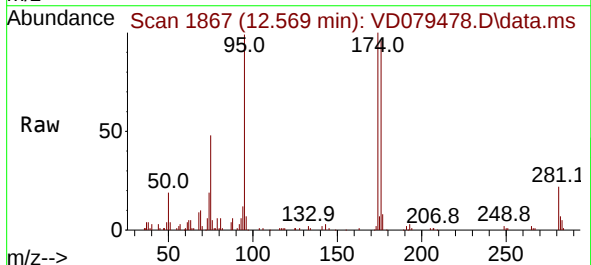
Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-12-12.5-072024

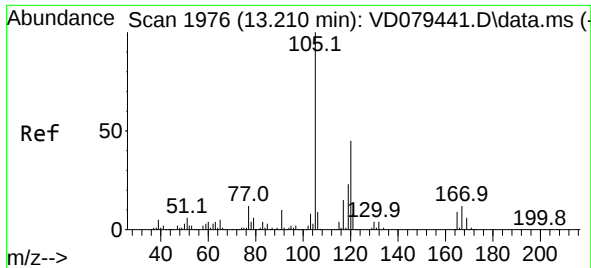
Tgt Ion: 75 Resp: 33847
Ion Ratio Lower Upper
75 100
77 0.8 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 87.926 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.100 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

Tgt Ion: 75 Resp: 33847
Ion Ratio Lower Upper
75 100
53 0.0 61.4 92.2#
89 0.0 35.4 53.0#

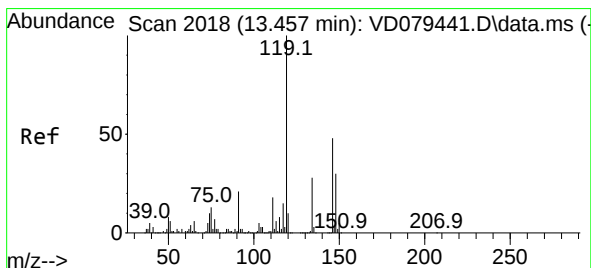
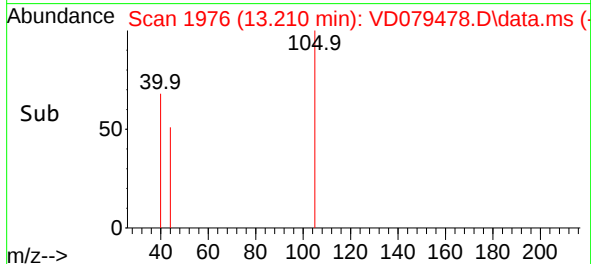
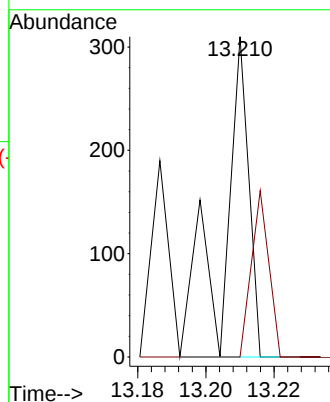
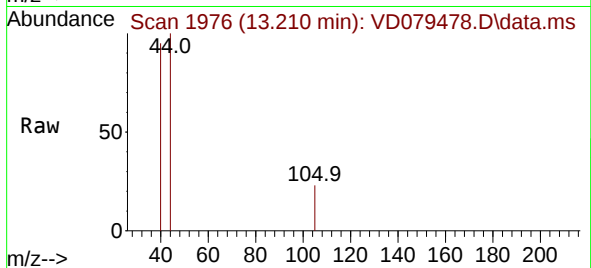




#84
1,2,4-Trimethylbenzene
Concen: 3.457 ug/l
RT: 13.210 min Scan# 1976
Delta R.T. 0.006 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

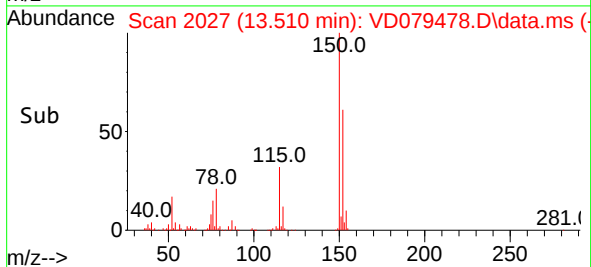
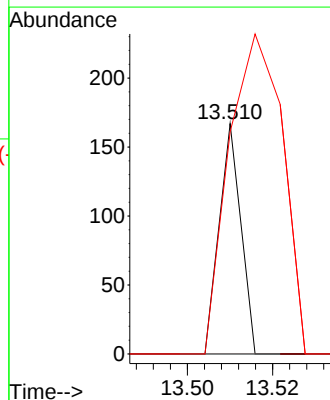
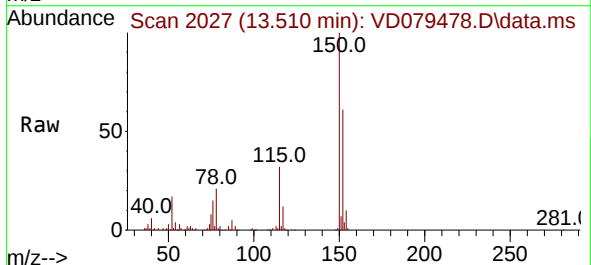
Instrument : MSVOA_D
ClientSampleId : S-864-K2-SO-12-12.5-072024

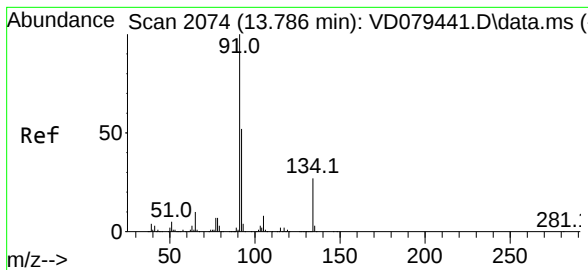
Tgt Ion:105 Resp: 163
Ion Ratio Lower Upper
105 100
120 35.0 23.6 71.0



#86
p-Isopropyltoluene
Concen: 3.896 ug/l
RT: 13.510 min Scan# 2027
Delta R.T. 0.053 min
Lab File: VD079478.D
Acq: 31 Jul 2024 02:51

Tgt Ion:119 Resp: 59
Ion Ratio Lower Upper
119 100
134 0.0 13.7 41.1#
91 344.1 10.7 32.1#





#89

n-Butylbenzene

Concen: 3.817 ug/l

RT: 13.516 min Scan# 20

Delta R.T. -0.265 min

Lab File: VD079478.D

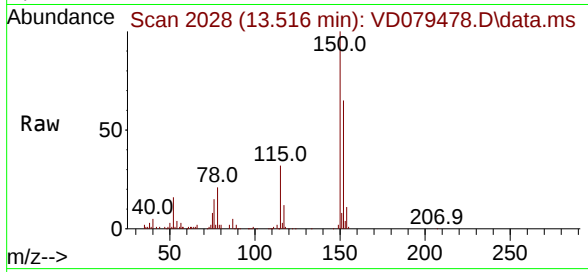
Acq: 31 Jul 2024 02:51

Instrument :

MSVOA_D

ClientSampleId :

S-864-K2-SO-12-12.5-072024



Tgt Ion: 91 Resp: 203

Ion Ratio Lower Upper

91 100

92 0.0 25.7 77.0#

134 0.0 13.6 40.8#

