

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD073024\
 Data File : VD079480.D
 Acq On : 31 Jul 2024 03:46
 Operator : RP/MD
 Sample : P3374-03
 Misc : 7.94G/5.0ml/MSVOA_D/SOIL/A
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S-864-K2-SO-13.5-14-072024

Quant Time: Jul 31 04:38:41 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)

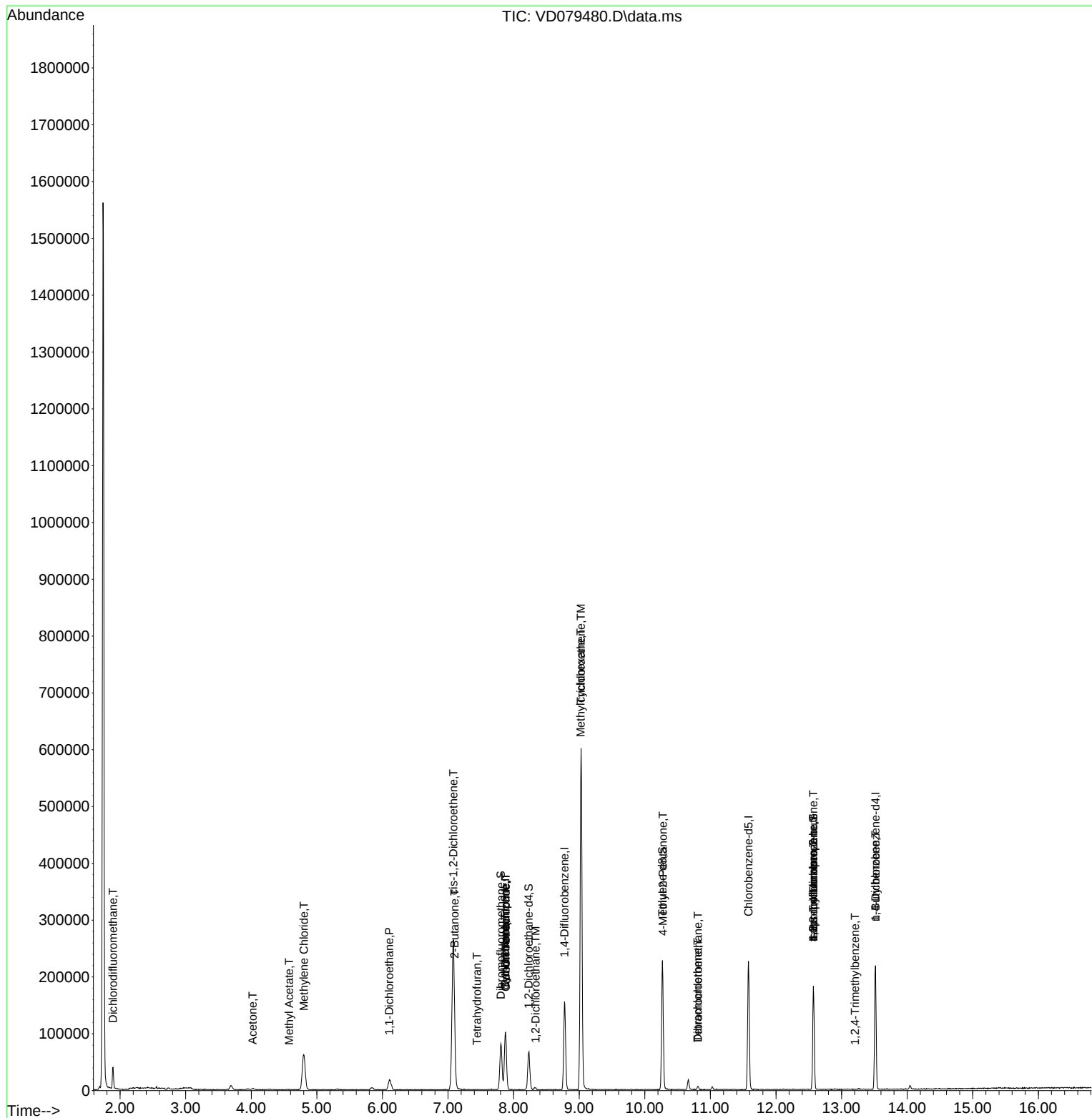
Internal Standards						
1) Pentafluorobenzene	7.875	168	83829	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	143909	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	141070	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	64030	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	52942	62.166	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 124.340%			
35) Dibromofluoromethane	7.805	113	58654	60.217	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 120.440%			
50) Toluene-d8	10.269	98	161430	42.677	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 85.360%			
62) 4-Bromofluorobenzene	12.569	95	50628	46.253	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 92.500%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.893	85	4303	6.551	ug/l	82
11) Tert butyl alcohol	5.075	59	73	Below Cal	#	86
16) Acetone	4.022	43	3840	23.202	ug/l #	78
18) Methyl Acetate	4.575	43	696	1.354	ug/l #	53
20) Methylene Chloride	4.805	84	52692	40.957	ug/l	98
24) 1,1-Dichloroethane	6.105	63	25016	14.027	ug/l	93
25) 2-Butanone	7.099	43	783	3.337	ug/l #	1
27) cis-1,2-Dichloroethene	7.081	96	178826	153.756	ug/l	97
29) Tetrahydrofuran	7.440	42	193	1.327	ug/l #	44
31) Cyclohexane	7.869	56	1581	1.118	ug/l #	40
36) 1,1-Dichloropropene	7.875	75	6083	4.576	ug/l #	47
38) Carbon Tetrachloride	7.881	117	7764	5.555	ug/l #	13
39) Methylcyclohexane	9.022	83	3029	1.910	ug/l #	1
42) 1,2-Dichloroethane	8.334	62	3526	3.504	ug/l #	67
44) Trichloroethene	9.028	130	230153	218.953	ug/l	99
51) 4-Methyl-2-Pentanone	10.275	43	682	1.304	ug/l #	1
60) Dibromochloromethane	10.810	129	1062	1.083	ug/l #	11
64) Tetrachloroethene	10.804	164	1449	1.523	ug/l #	81
73) Isopropylbenzene	12.569	105	58	3.639	ug/l #	48
76) 1,2,3-Trichloropropane	12.569	75	24290	43.399	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.569	75	24290	82.774	ug/l #	19
84) 1,2,4-Trimethylbenzene	13.204	105	54	3.441	ug/l #	29
89) n-Butylbenzene	13.516	91	55	3.794	ug/l #	34

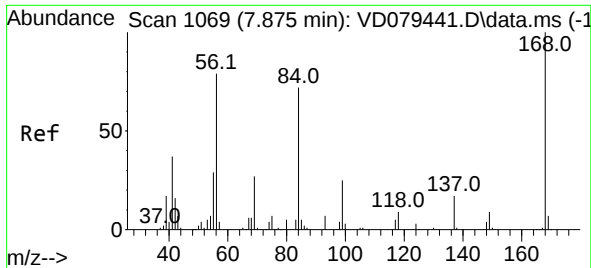
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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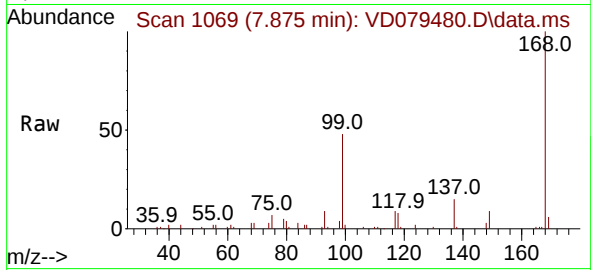
Quant Time: Jul 31 04:38:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D072924S.M
Quant Title : SW846 8260
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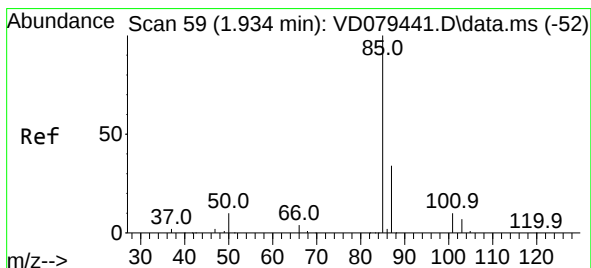
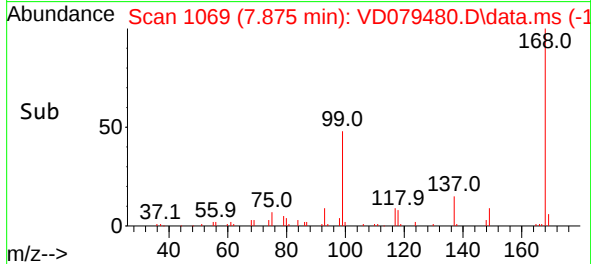
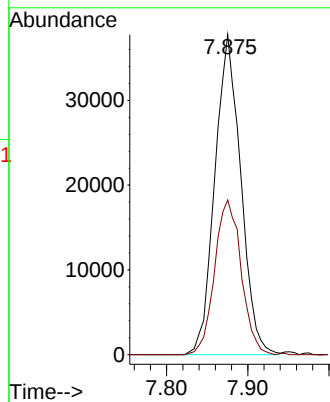


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-13.5-14-072024

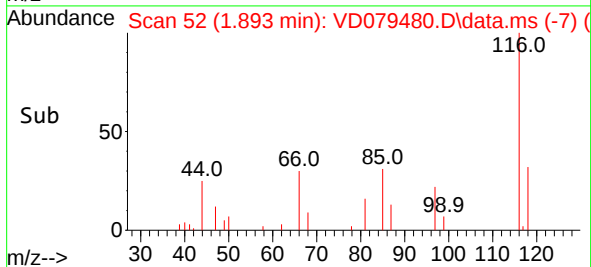
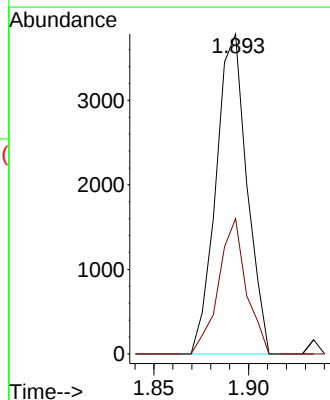
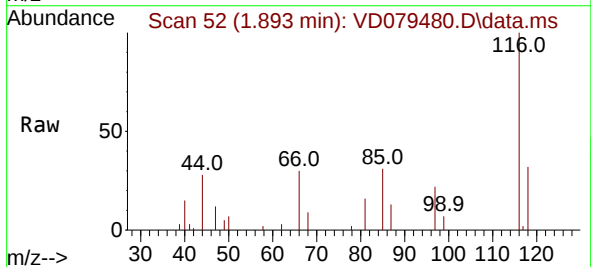


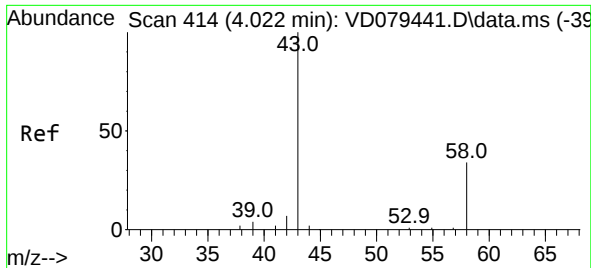
Tgt Ion:168 Resp: 83829
Ion Ratio Lower Upper
168 100
99 48.3 41.1 61.7



#2
Dichlorodifluoromethane
Concen: 6.551 ug/l
RT: 1.893 min Scan# 52
Delta R.T. -0.035 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

Tgt Ion: 85 Resp: 4303
Ion Ratio Lower Upper
85 100
87 42.3 16.0 48.0





#16

Acetone

Concen: 23.202 ug/l

RT: 4.022 min Scan# 414

Delta R.T. 0.000 min

Lab File: VD079480.D

Acq: 31 Jul 2024 03:46

Instrument :

MSVOA_D

ClientSampleId :

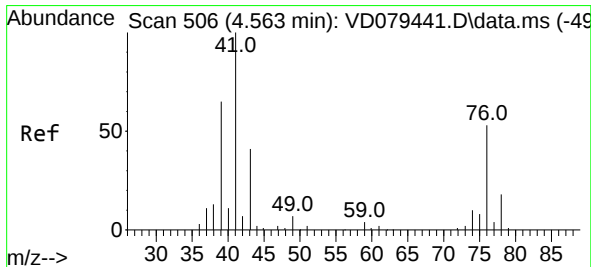
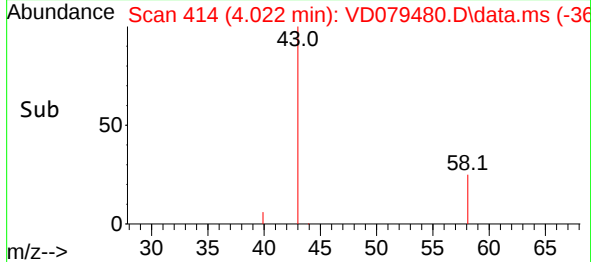
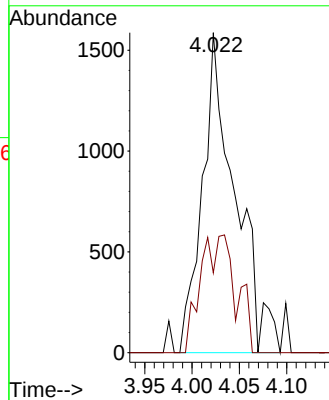
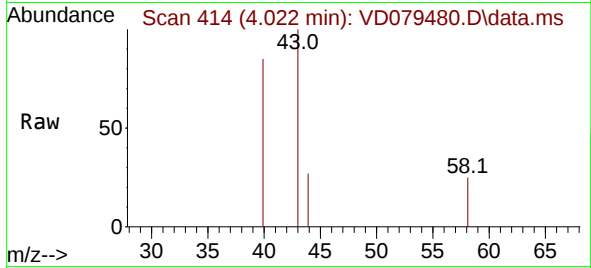
S-864-K2-SO-13.5-14-072024

Tgt Ion: 43 Resp: 3840

Ion Ratio Lower Upper

43 100

58 25.0 30.4 45.6#



#18

Methyl Acetate

Concen: 1.354 ug/l

RT: 4.575 min Scan# 508

Delta R.T. 0.006 min

Lab File: VD079480.D

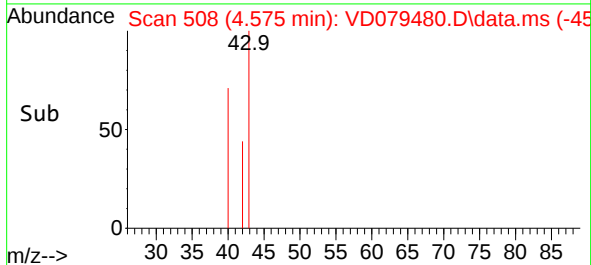
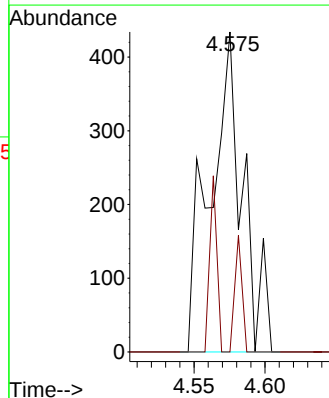
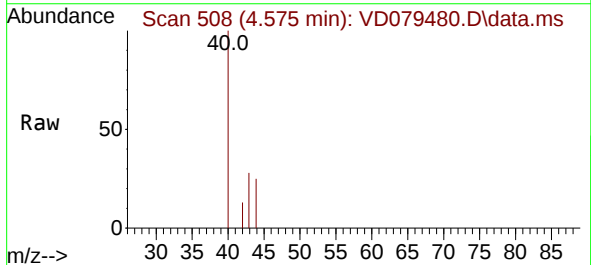
Acq: 31 Jul 2024 03:46

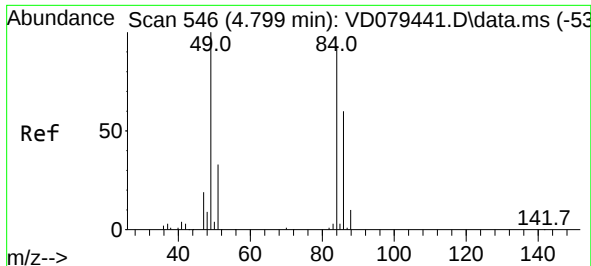
Tgt Ion: 43 Resp: 696

Ion Ratio Lower Upper

43 100

74 8.0 28.1 42.1#

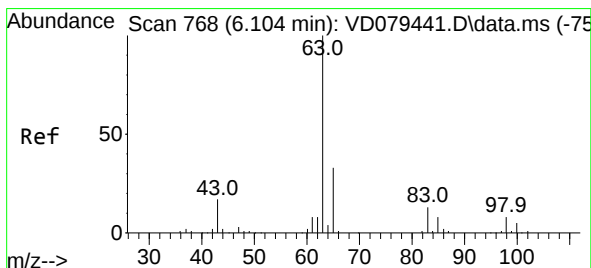
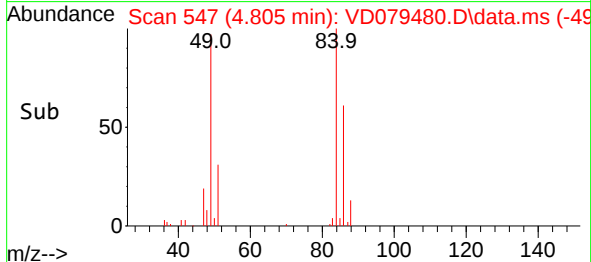
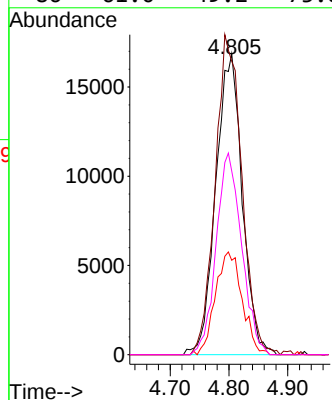
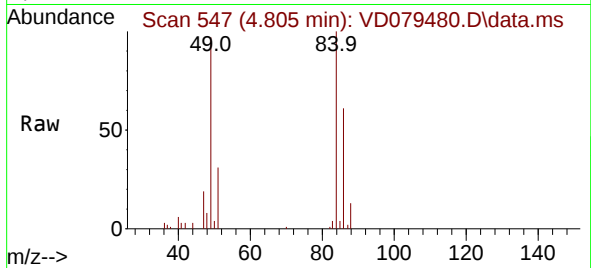




#20
Methylene Chloride
Concen: 40.957 ug/l
RT: 4.805 min Scan# 546
Delta R.T. 0.006 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

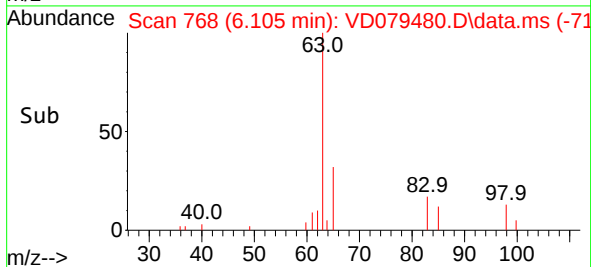
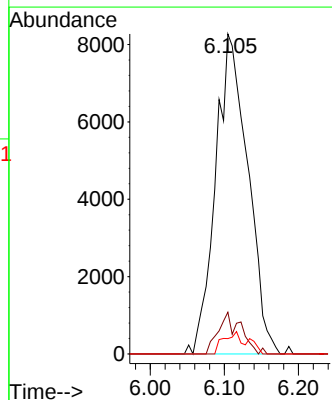
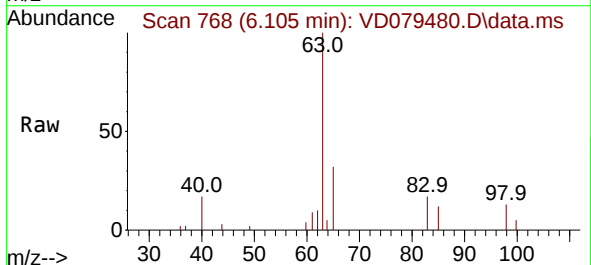
Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-13.5-14-072024

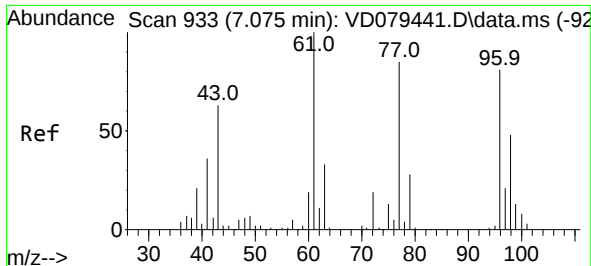
Tgt Ion:	84	Resp:	52692
Ion	Ratio	Lower	Upper
84	100		
49	97.5	75.6	113.4
51	31.4	24.2	36.2
86	61.0	49.2	73.8



#24
1,1-Dichloroethane
Concen: 14.027 ug/l
RT: 6.105 min Scan# 768
Delta R.T. 0.000 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

Tgt Ion:	63	Resp:	25016
Ion	Ratio	Lower	Upper
63	100		
98	13.0	4.7	14.0
100	4.8	2.9	8.6

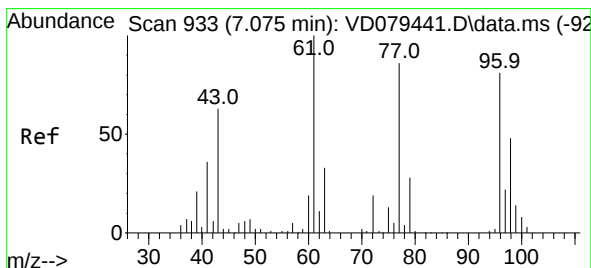
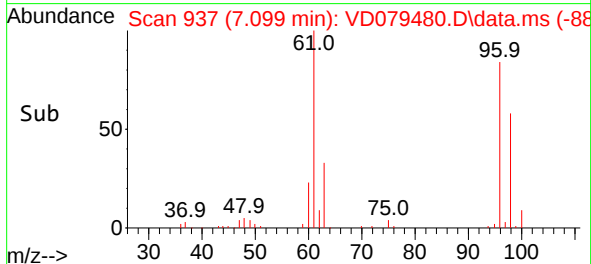
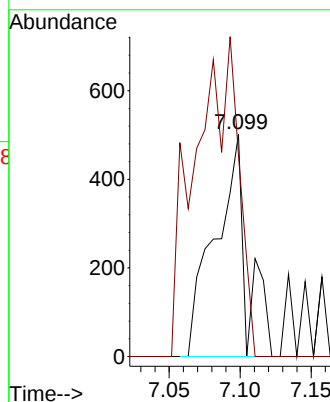
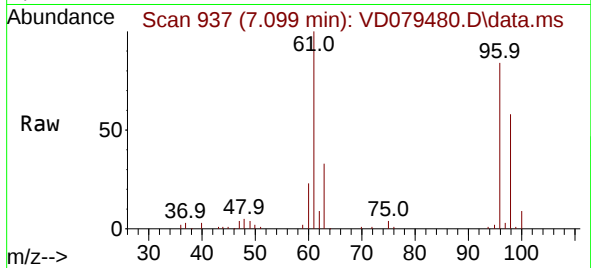




#25
2-Butanone
Concen: 3.337 ug/l
RT: 7.099 min Scan# 91
Delta R.T. 0.006 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

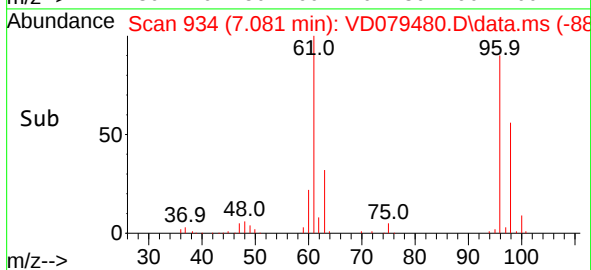
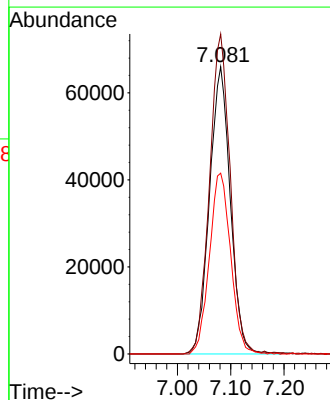
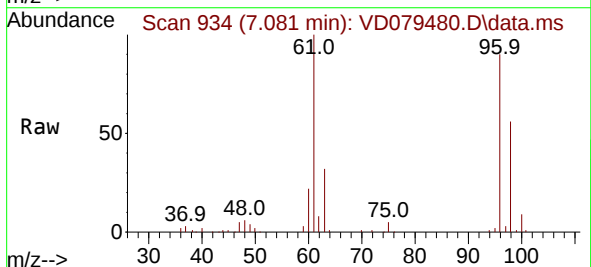
Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-13.5-14-072024

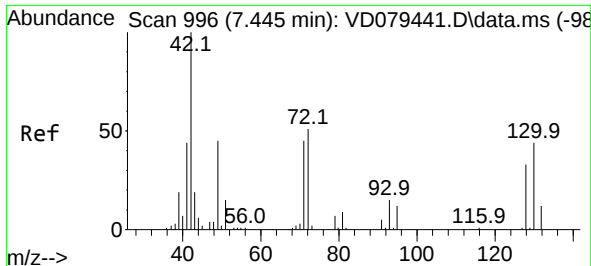
Tgt Ion: 43 Resp: 783
Ion Ratio Lower Upper
43 100
72 90.6 26.4 39.6#



#27
cis-1,2-Dichloroethene
Concen: 153.756 ug/l
RT: 7.081 min Scan# 934
Delta R.T. 0.006 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

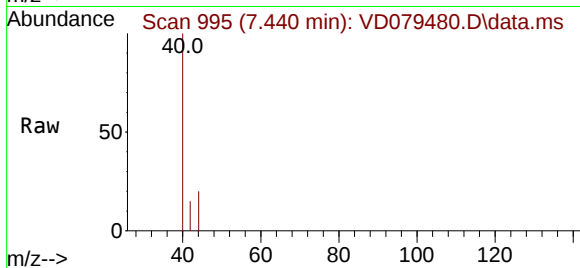
Tgt Ion: 96 Resp: 178826
Ion Ratio Lower Upper
96 100
61 110.7 0.0 229.0
98 64.2 0.0 127.2



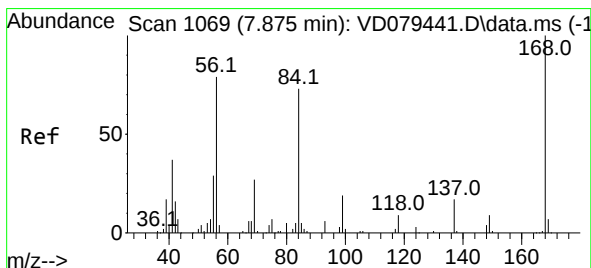
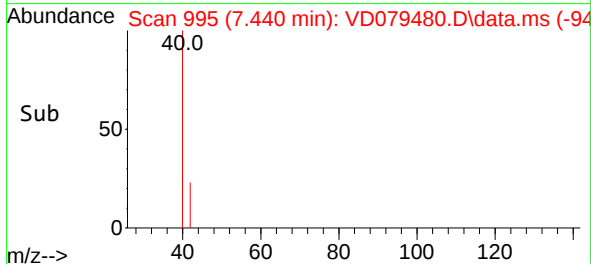
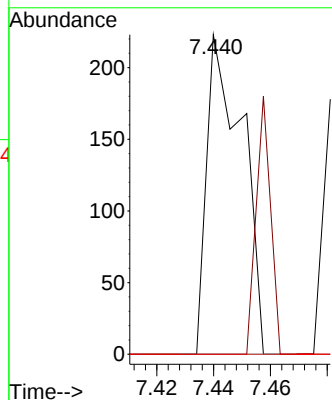


#29
Tetrahydrofuran
Concen: 1.327 ug/l
RT: 7.440 min Scan# 995
Delta R.T. -0.006 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-13.5-14-072024

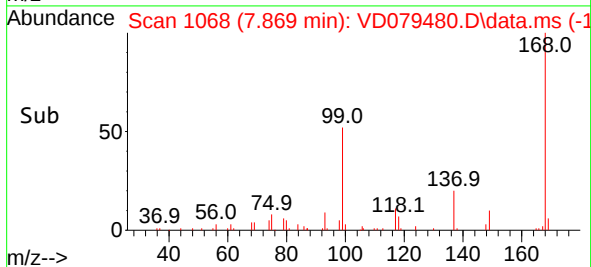
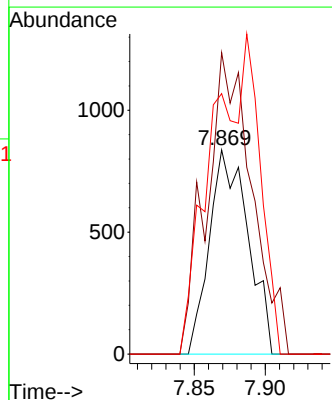
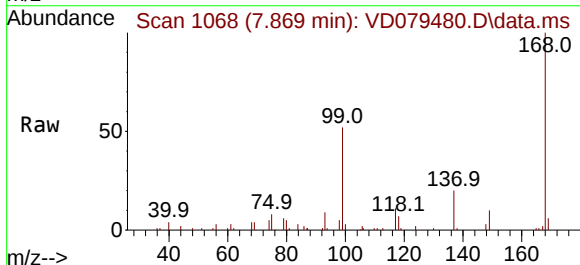


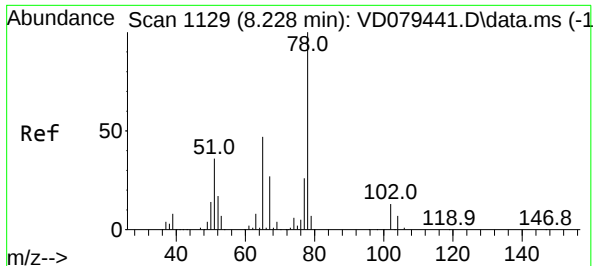
Tgt Ion:	42	Resp:	193
Ion	Ratio	Lower	Upper
42	100		
72	33.2	49.4	74.0#
71	0.0	45.0	67.6#



#31
Cyclohexane
Concen: 1.118 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.012 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

Tgt Ion:	56	Resp:	1581
Ion	Ratio	Lower	Upper
56	100		
69	147.7	28.0	42.0#
84	127.6	87.4	131.0





#33

1,2-Dichloroethane-d4

Concen: 62.166 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. 0.000 min

Lab File: VD079480.D

Acq: 31 Jul 2024 03:46

Instrument :

MSVOA_D

ClientSampleId :

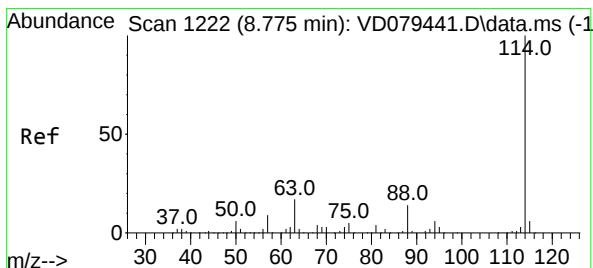
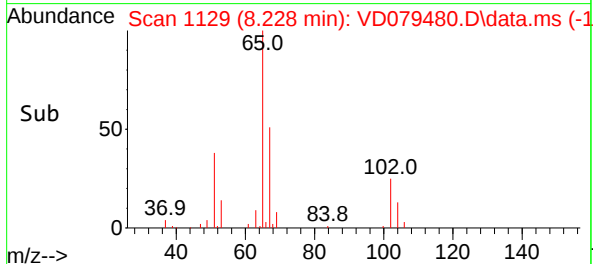
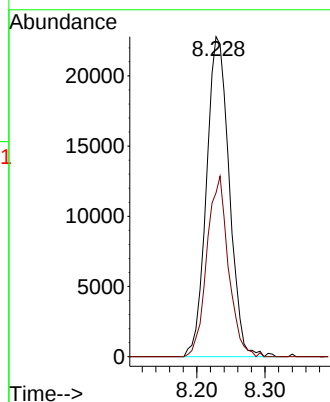
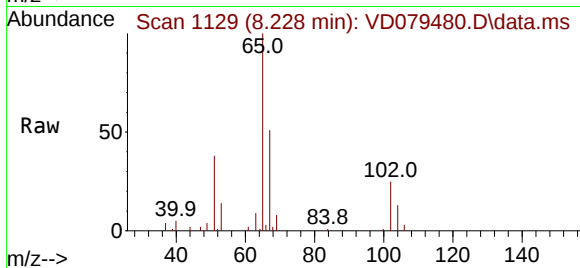
S-864-K2-SO-13.5-14-072024

Tgt Ion: 65 Resp: 52942

Ion Ratio Lower Upper

65 100

67 53.3 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: VD079480.D

Acq: 31 Jul 2024 03:46

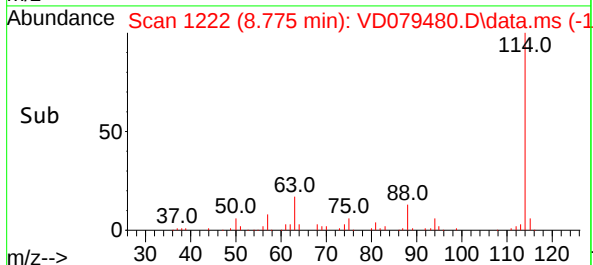
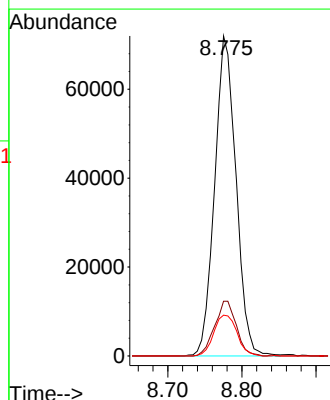
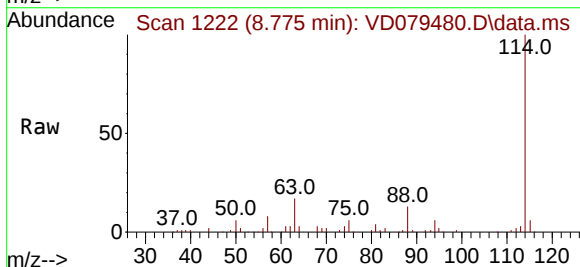
Tgt Ion: 114 Resp: 143909

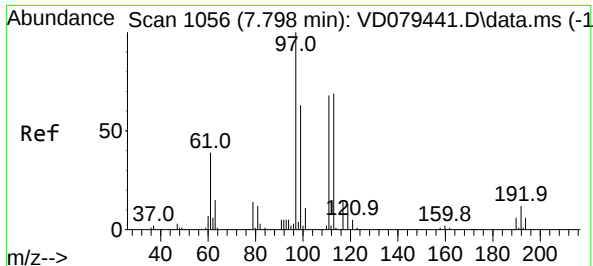
Ion Ratio Lower Upper

114 100

63 17.1 0.0 34.0

88 12.8 0.0 27.2





#35

Dibromofluoromethane

Concen: 60.217 ug/l

RT: 7.805 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VD079480.D

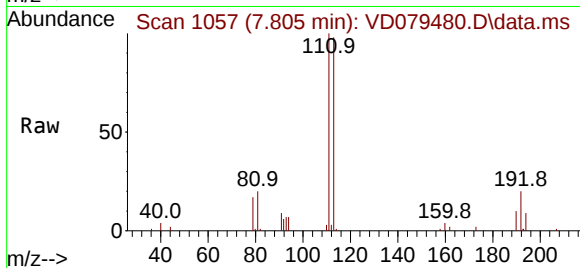
Acq: 31 Jul 2024 03:46

Instrument :

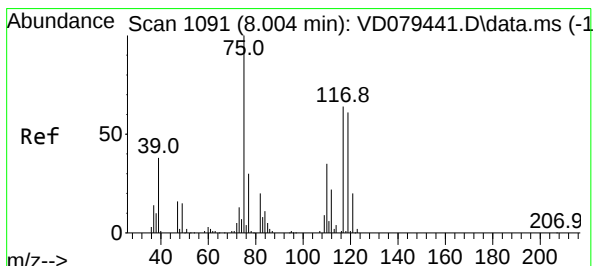
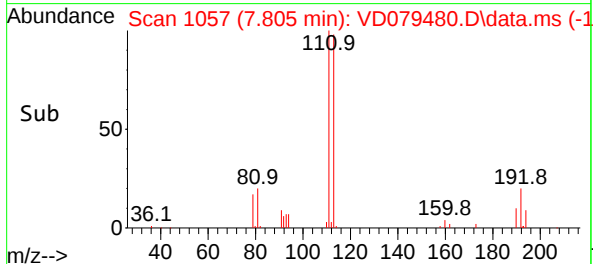
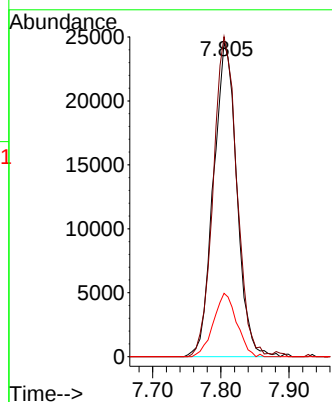
MSVOA_D

ClientSampleId :

S-864-K2-SO-13.5-14-072024



Tgt Ion:	113	Resp:	58654
Ion Ratio	Lower	Upper	
113	100		
111	102.6	84.0	126.0
192	20.1	15.4	23.0



#36

1,1-Dichloropropene

Concen: 4.576 ug/l

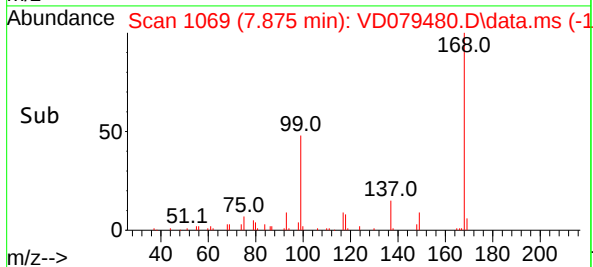
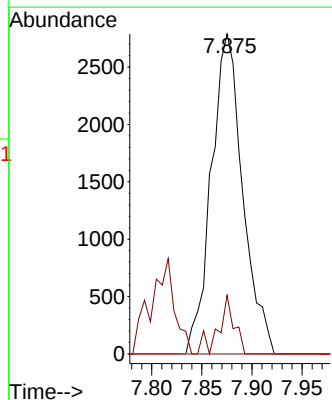
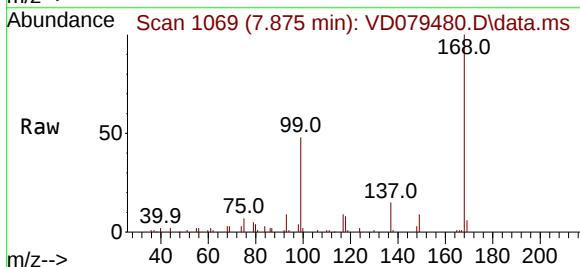
RT: 7.875 min Scan# 1069

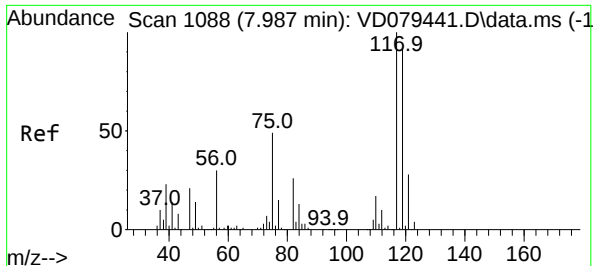
Delta R.T. -0.135 min

Lab File: VD079480.D

Acq: 31 Jul 2024 03:46

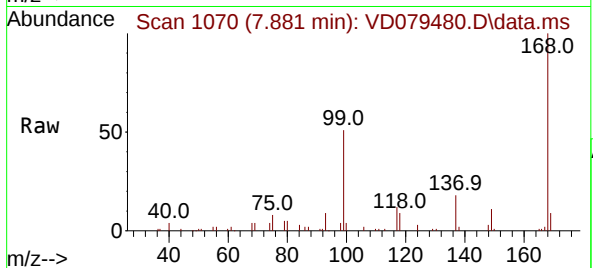
Tgt Ion:	75	Resp:	6083
Ion Ratio	Lower	Upper	
75	100		
110	9.1	19.6	58.7#
77	0.0	26.1	39.1#



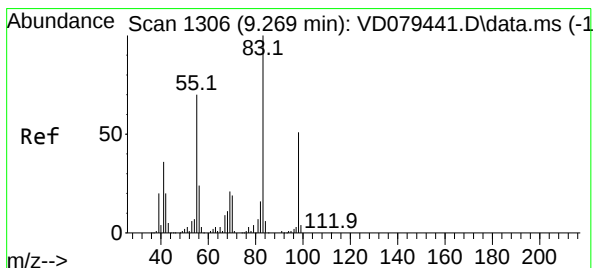
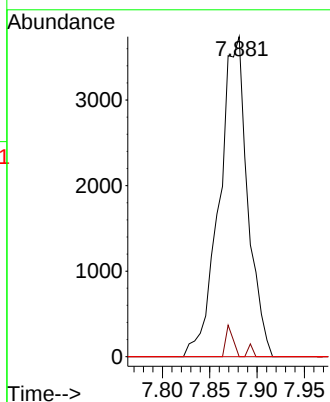
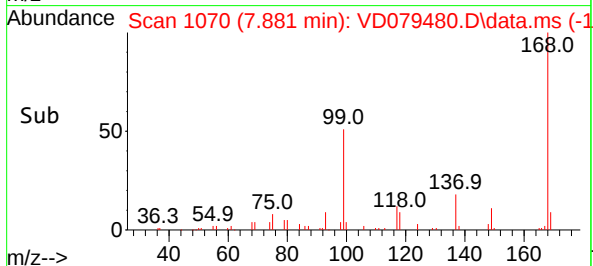


#38
Carbon Tetrachloride
Concen: 5.555 ug/l
RT: 7.881 min Scan# 117
Delta R.T. -0.106 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-13.5-14-072024

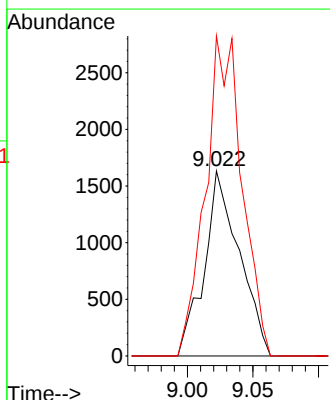
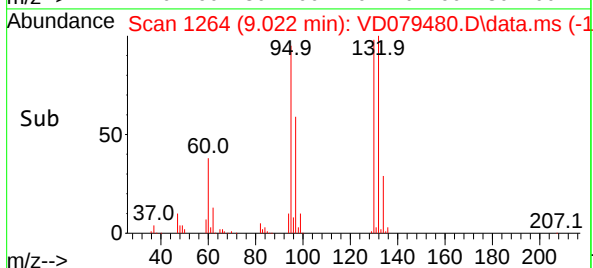
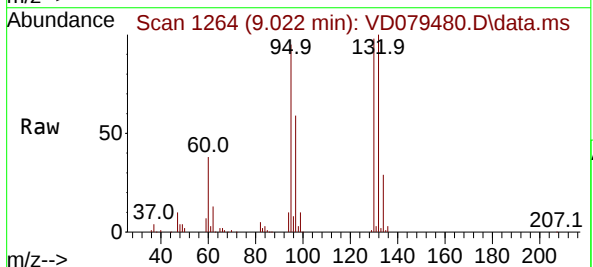


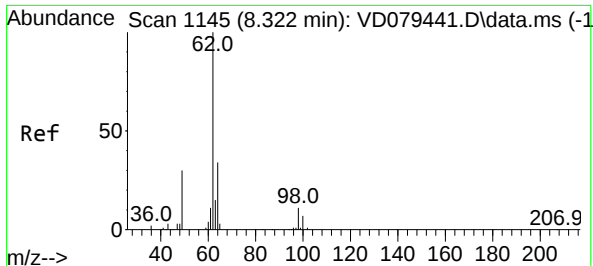
Tgt Ion:117 Resp: 7764
Ion Ratio Lower Upper
117 100
119 0.0 75.4 113.0#
121 0.0 25.0 37.4#



#39
Methylcyclohexane
Concen: 1.910 ug/l
RT: 9.022 min Scan# 1264
Delta R.T. -0.253 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

Tgt Ion: 83 Resp: 3029
Ion Ratio Lower Upper
83 100
55 0.0 50.1 75.1#
98 173.0 41.9 62.9#





#42

1,2-Dichloroethane

Concen: 3.504 ug/l

RT: 8.334 min Scan# 1145

Delta R.T. 0.012 min

Lab File: VD079480.D

Acq: 31 Jul 2024 03:46

Instrument :

MSVOA_D

ClientSampleId :

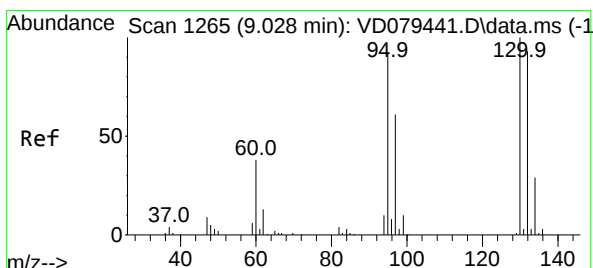
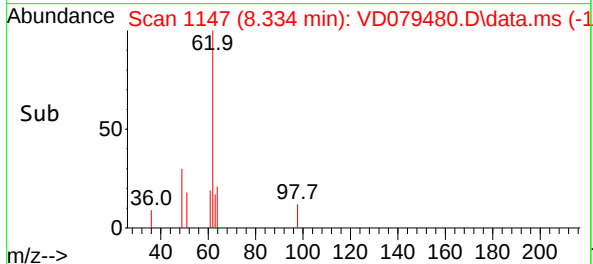
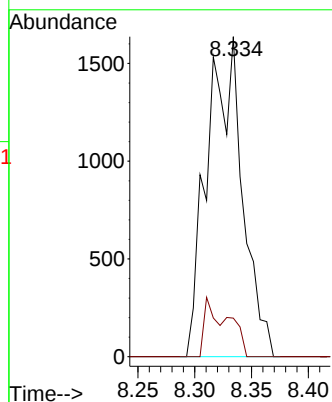
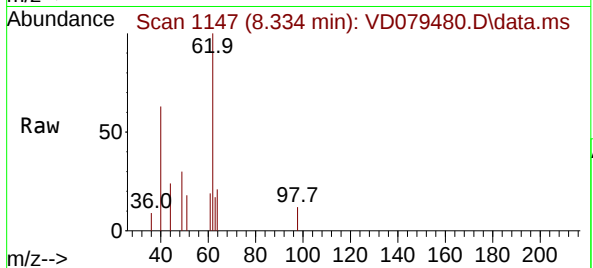
S-864-K2-SO-13.5-14-072024

Tgt Ion: 62 Resp: 3526

Ion Ratio Lower Upper

62 100

98 0.0 0.0 25.8



#44

Trichloroethene

Concen: 218.953 ug/l

RT: 9.028 min Scan# 1265

Delta R.T. 0.000 min

Lab File: VD079480.D

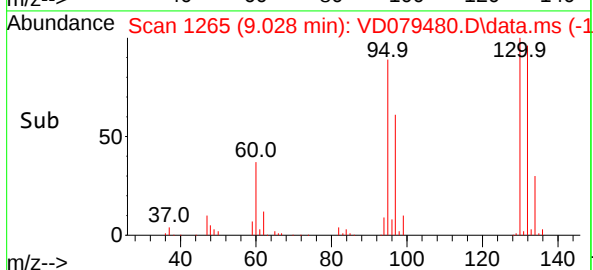
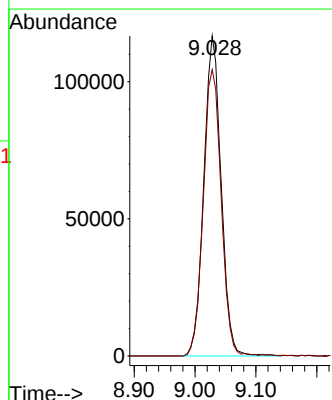
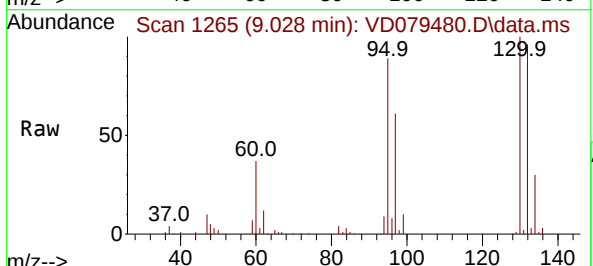
Acq: 31 Jul 2024 03:46

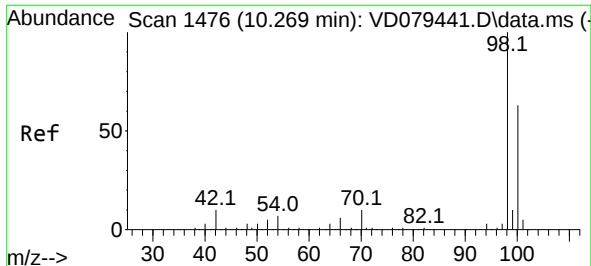
Tgt Ion: 130 Resp: 230153

Ion Ratio Lower Upper

130 100

95 89.5 0.0 177.8

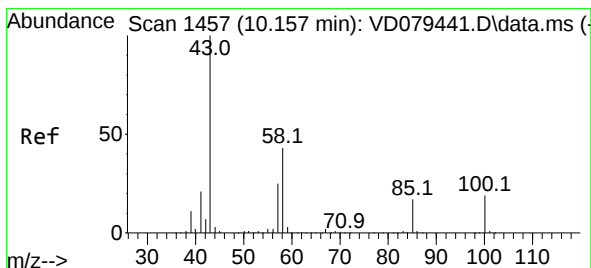
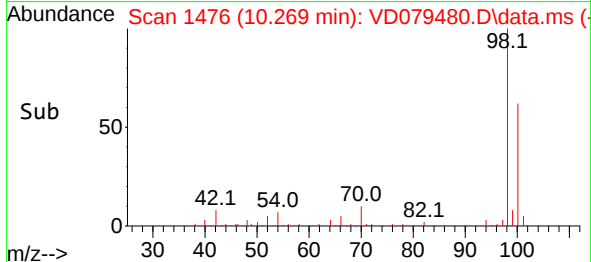
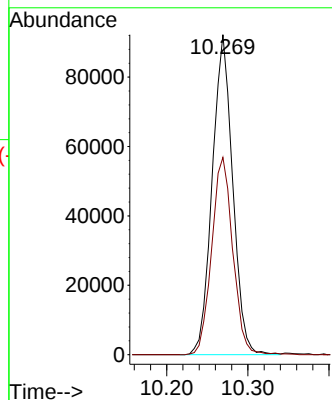
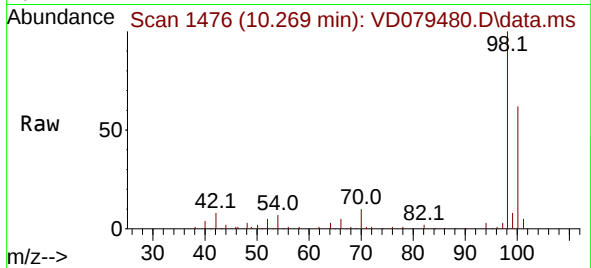




#50
Toluene-d8
Concen: 42.677 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

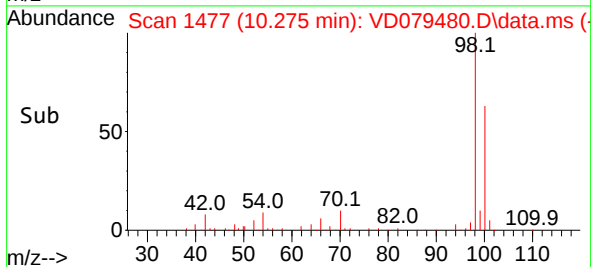
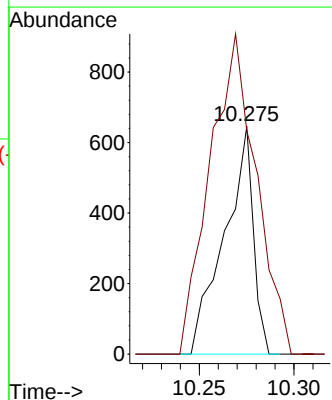
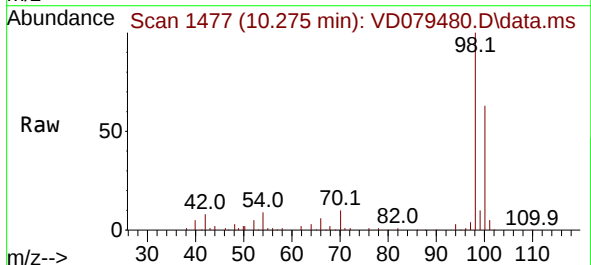
Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-13.5-14-072024

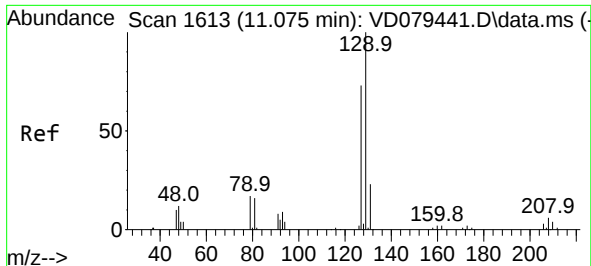
Tgt Ion: 98 Resp: 161430
Ion Ratio Lower Upper
98 100
100 63.6 51.6 77.4



#51
4-Methyl-2-Pentanone
Concen: 1.304 ug/l
RT: 10.275 min Scan# 1477
Delta R.T. 0.118 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

Tgt Ion: 43 Resp: 682
Ion Ratio Lower Upper
43 100
58 225.7 36.6 55.0#

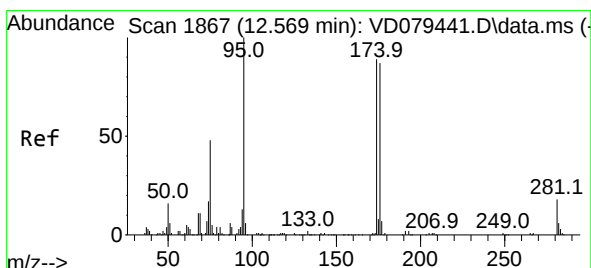
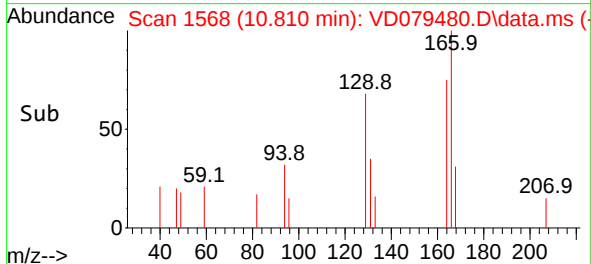
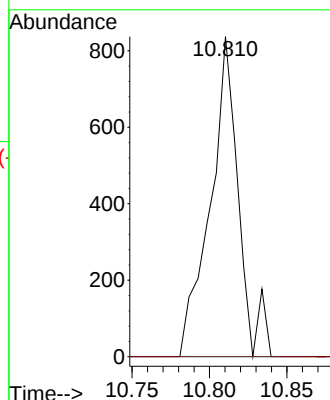
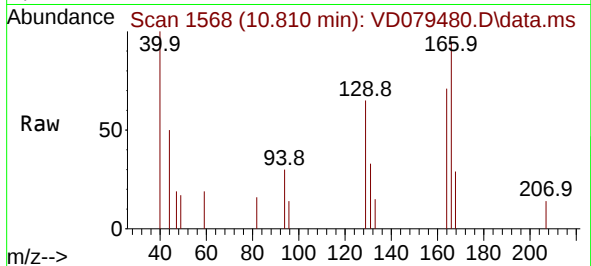




#60
Dibromochloromethane
Concen: 1.083 ug/l
RT: 10.810 min Scan# 1568
Delta R.T. -0.259 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

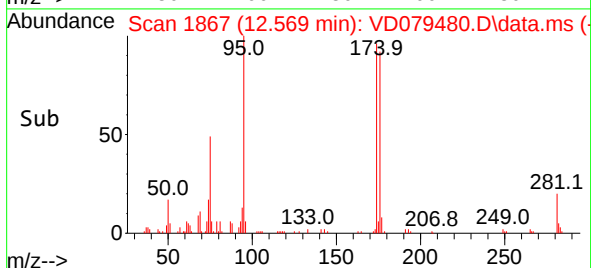
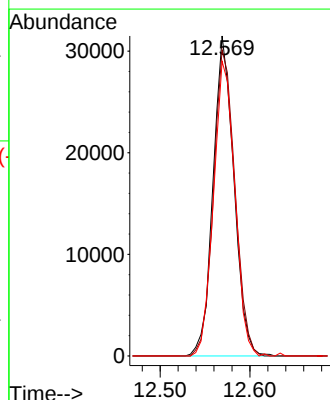
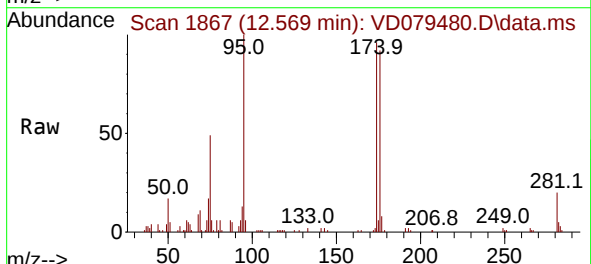
Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-13.5-14-072024

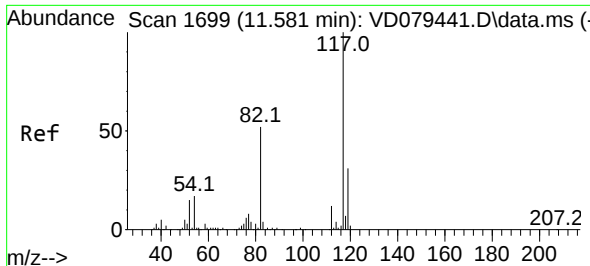
Tgt Ion:129 Resp: 1062
Ion Ratio Lower Upper
129 100
127 0.0 38.0 113.9#



#62
4-Bromofluorobenzene
Concen: 46.253 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.000 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

Tgt Ion: 95 Resp: 50628
Ion Ratio Lower Upper
95 100
174 98.9 0.0 195.4
176 94.3 0.0 192.6

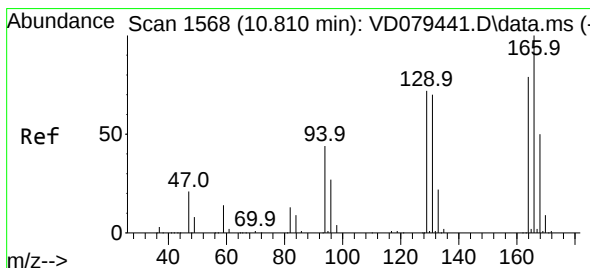
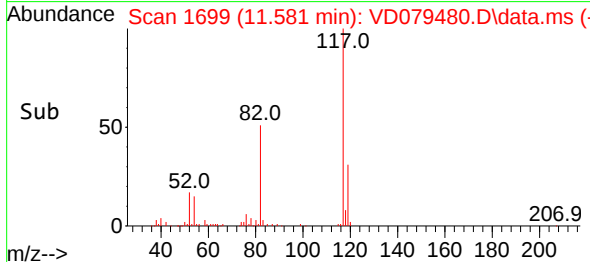
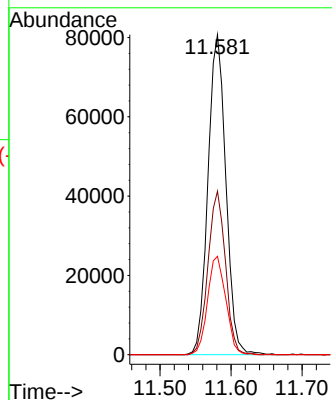
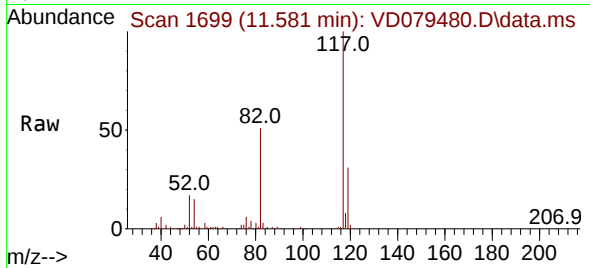




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

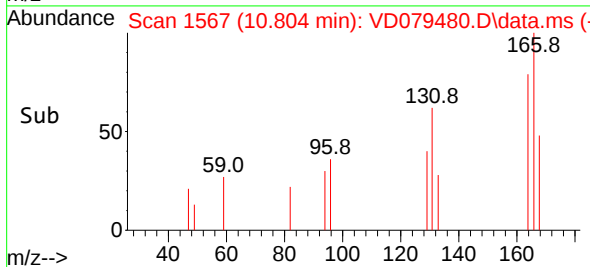
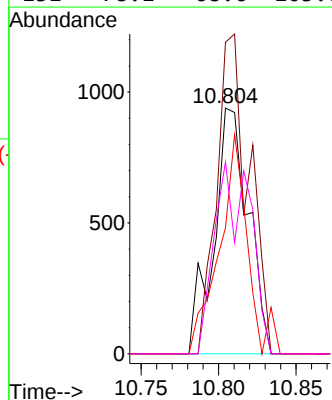
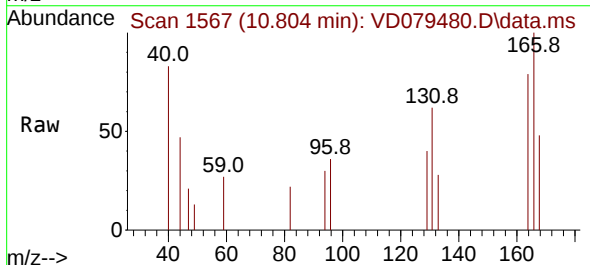
Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-13.5-14-072024

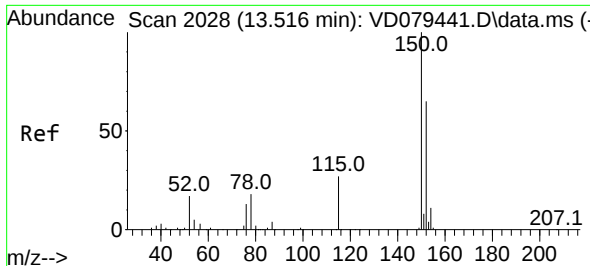
Tgt Ion:117 Resp: 141070
Ion Ratio Lower Upper
117 100
82 51.1 39.8 59.6
119 30.7 25.7 38.5



#64
Tetrachloroethene
Concen: 1.523 ug/l
RT: 10.804 min Scan# 1567
Delta R.T. -0.006 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

Tgt Ion:164 Resp: 1449
Ion Ratio Lower Upper
164 100
166 126.7 108.6 163.0
129 51.2 74.6 112.0#
131 78.1 68.6 103.0

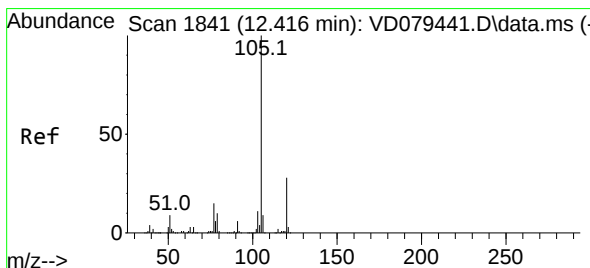
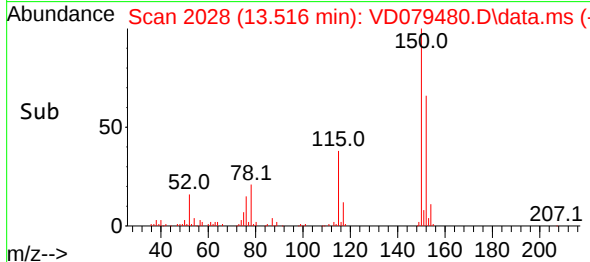
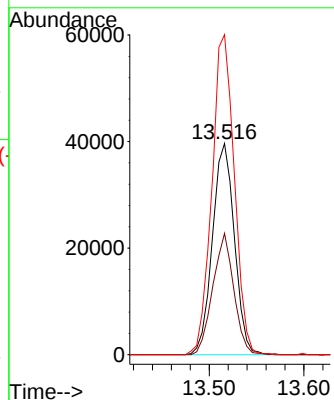
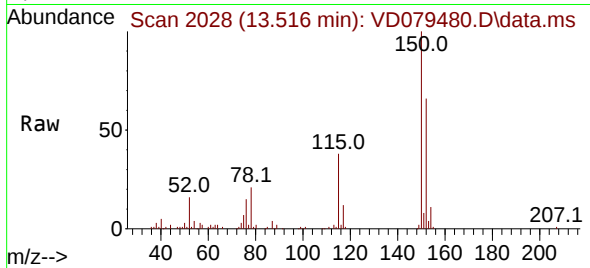




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. 0.006 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

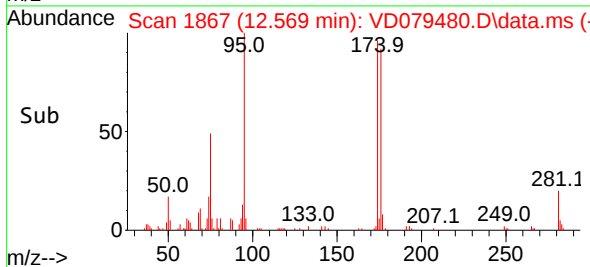
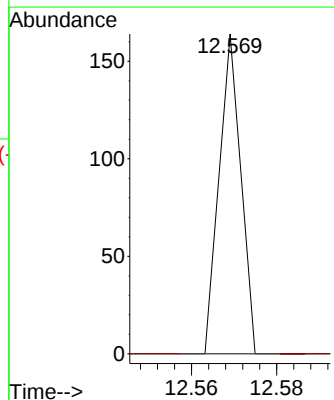
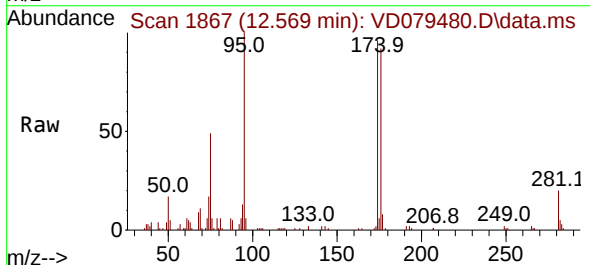
Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-13.5-14-072024

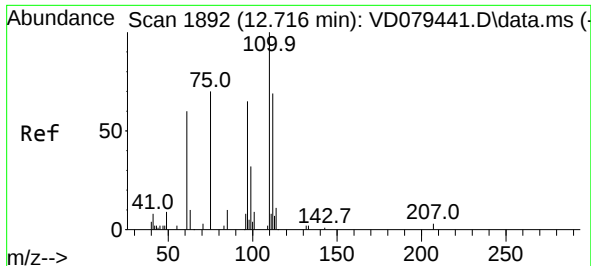
Tgt Ion:152 Resp: 64030
Ion Ratio Lower Upper
152 100
115 55.0 26.5 79.5
150 154.3 0.0 341.6



#73
Isopropylbenzene
Concen: 3.639 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.153 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

Tgt Ion:105 Resp: 58
Ion Ratio Lower Upper
105 100
120 0.0 13.6 40.7#

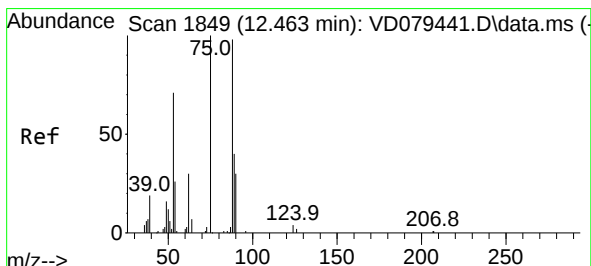
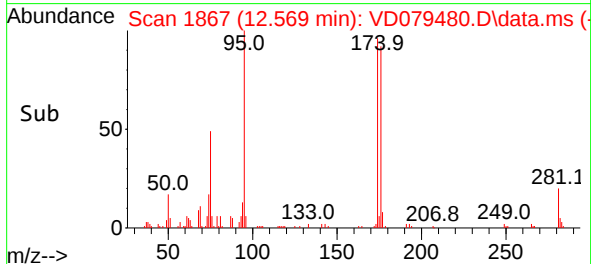
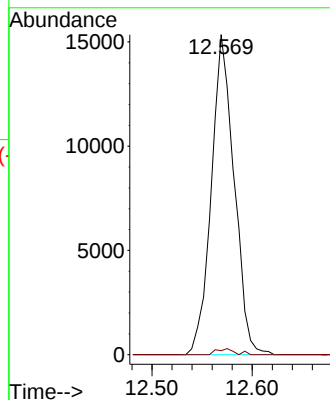
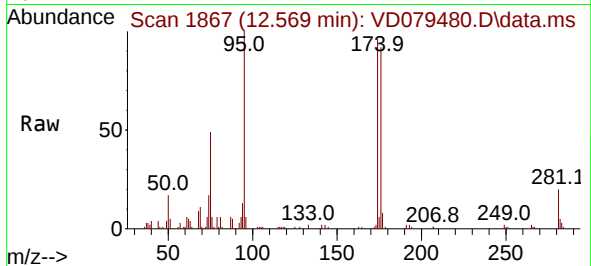




#76
1,2,3-Trichloropropane
Concen: 43.399 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.153 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

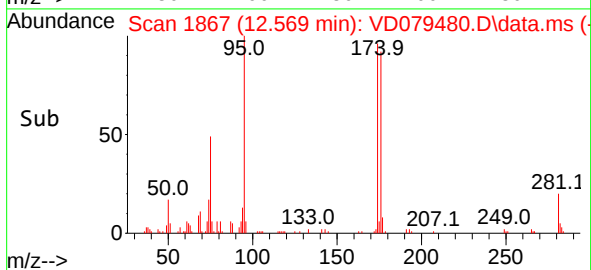
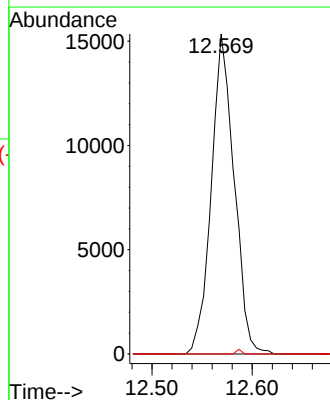
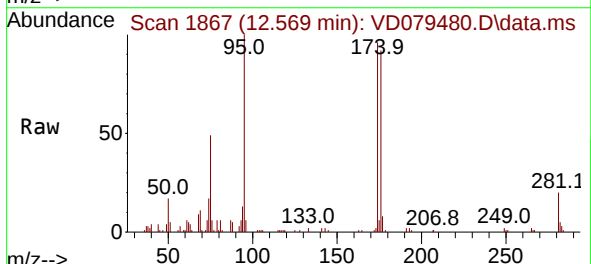
Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-13.5-14-072024

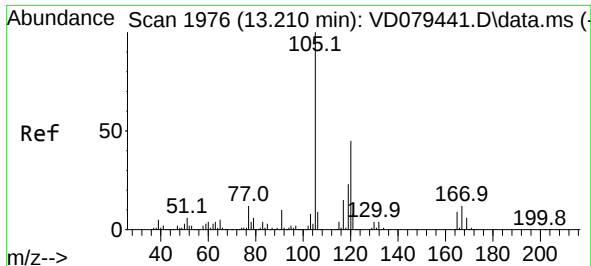
Tgt Ion: 75 Resp: 24290
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 82.774 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. 0.100 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

Tgt Ion: 75 Resp: 24290
Ion Ratio Lower Upper
75 100
53 0.0 61.4 92.2#
89 0.3 35.4 53.0#

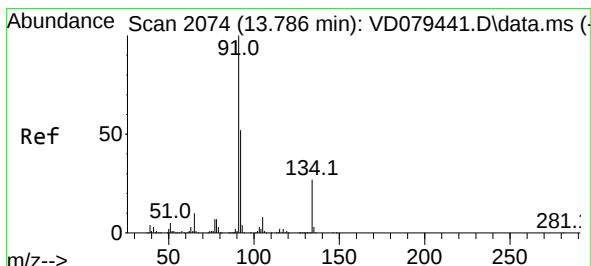
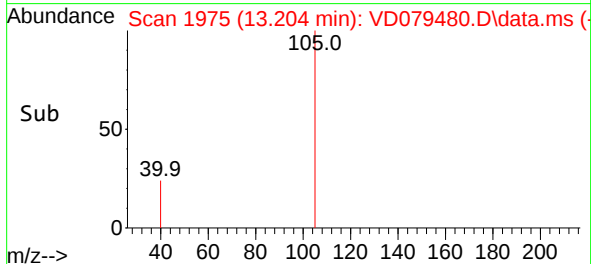
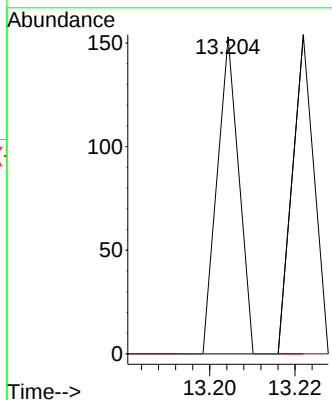
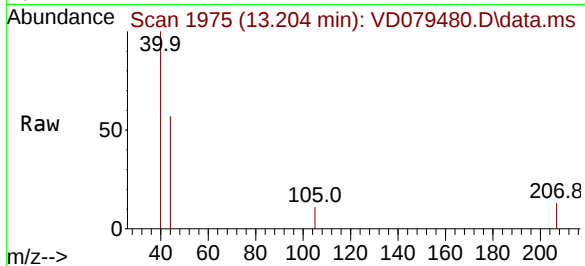




#84
1,2,4-Trimethylbenzene
Concen: 3.441 ug/l
RT: 13.204 min Scan# 1976
Delta R.T. 0.000 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

Instrument :
MSVOA_D
ClientSampleId :
S-864-K2-SO-13.5-14-072024

Tgt Ion:105 Resp: 54
Ion Ratio Lower Upper
105 100
120 0.0 23.6 71.0#



#89
n-Butylbenzene
Concen: 3.794 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.265 min
Lab File: VD079480.D
Acq: 31 Jul 2024 03:46

Tgt Ion: 91 Resp: 55
Ion Ratio Lower Upper
91 100
92 0.0 25.7 77.0#
134 0.0 13.6 40.8#

