

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD073124\
 Data File : VD079512.D
 Acq On : 01 Aug 2024 00:25
 Operator : RP/MD
 Sample : P3374-10
 Misc : 7.44G/5.0ml/MSVOA_D/SOIL/A
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 S-862-K2-SO-12.75-13.25-072024

Quant Time: Aug 01 02:54:51 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)

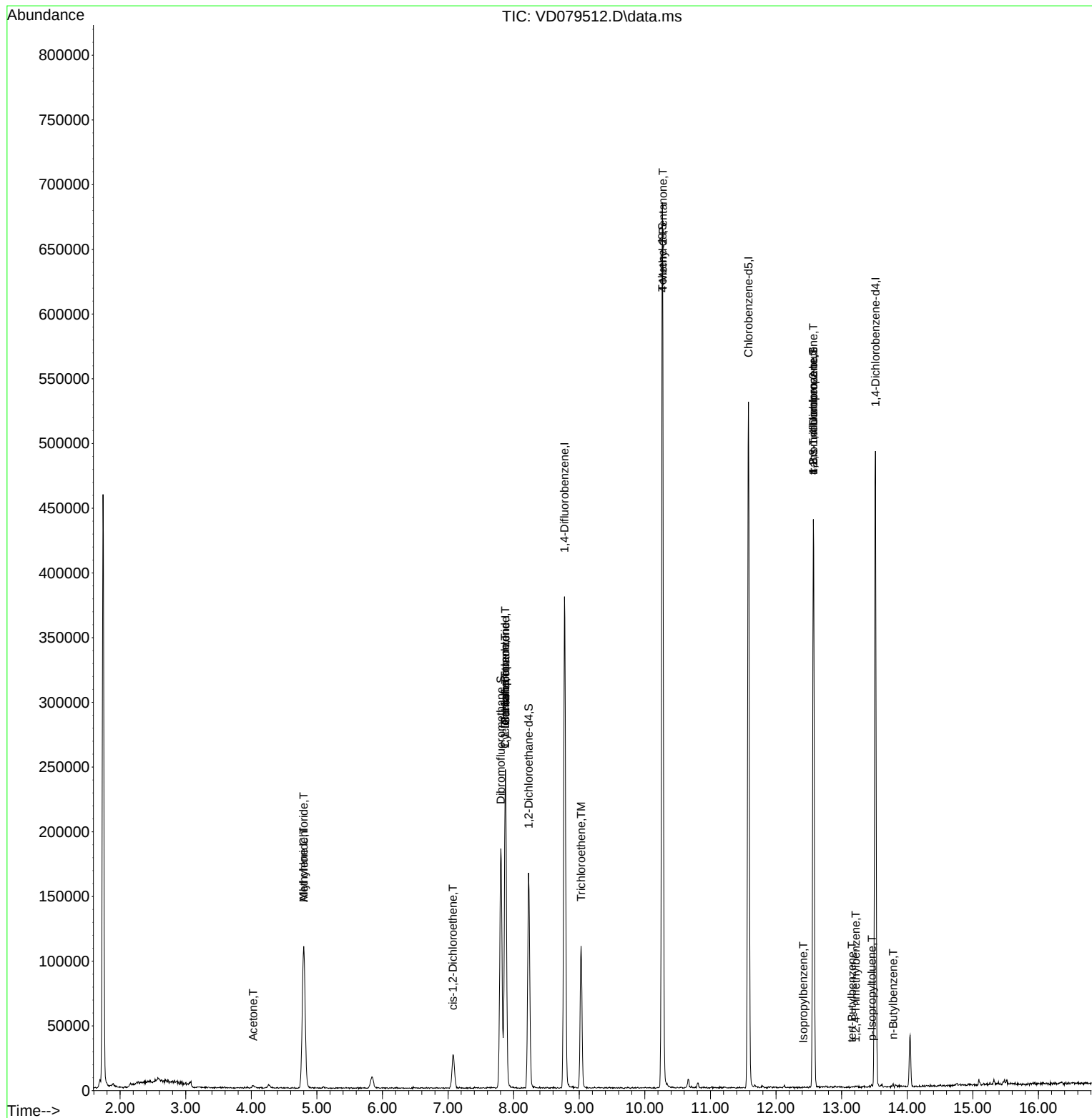
Internal Standards						
1) Pentafluorobenzene	7.875	168	196796	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	350978	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	326720	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	140186	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	125867	62.957	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 125.920%	
35) Dibromofluoromethane	7.805	113	138436	58.275	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 116.540%	
50) Toluene-d8	10.269	98	486139	52.697	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 105.400%	
62) 4-Bromofluorobenzene	12.569	95	126881	47.528	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 95.060%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.705	94	1288	Below Cal	#	77
11) Tert butyl alcohol	5.058	59	79	Below Cal	#	86
14) Allyl chloride	4.799	41	3681	1.311	ug/l #	17
16) Acetone	4.028	43	2812	7.237	ug/l #	70
20) Methylene Chloride	4.799	84	88501	23.577	ug/l #	86
27) cis-1,2-Dichloroethene	7.075	96	17164	6.286	ug/l	96
31) Cyclohexane	7.869	56	3667	1.104	ug/l #	1
36) 1,1-Dichloropropene	7.869	75	15161	4.676	ug/l #	47
38) Carbon Tetrachloride	7.875	117	18270	5.360	ug/l #	17
44) Trichloroethene	9.028	130	42668	16.644	ug/l	95
51) 4-Methyl-2-Pentanone	10.275	43	1925	1.509	ug/l #	1
73) Isopropylbenzene	12.416	105	152	3.641	ug/l #	48
76) 1,2,3-Trichloropropane	12.569	75	62927	51.354	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.569	75	62927	97.945	ug/l #	19
83) tert-Butylbenzene	13.157	119	338	3.669	ug/l #	49
84) 1,2,4-Trimethylbenzene	13.216	105	782	3.511	ug/l	77
86) p-Isopropyltoluene	13.463	119	620	3.945	ug/l #	51
89) n-Butylbenzene	13.787	91	944	3.878	ug/l	80

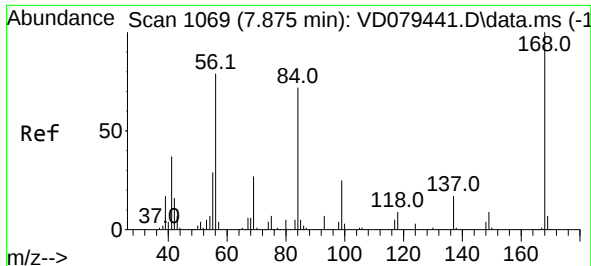
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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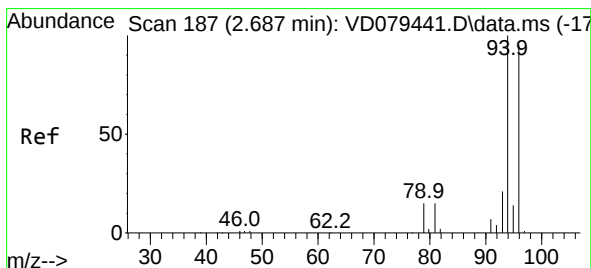
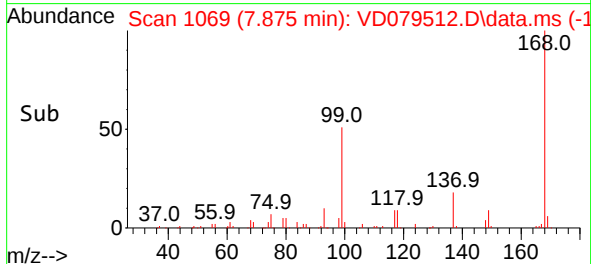
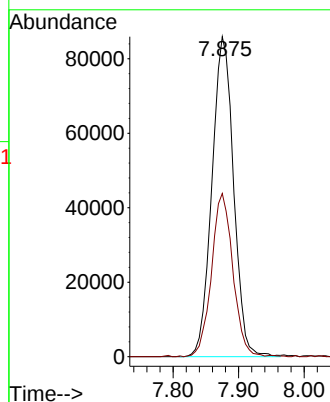
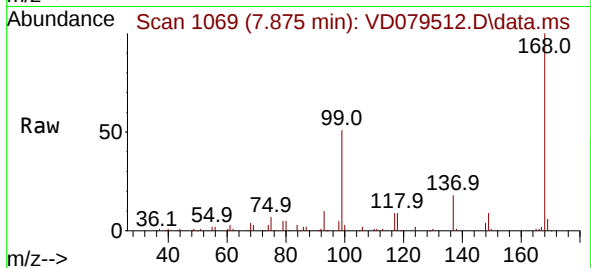




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD079512.D
Acq: 01 Aug 2024 00:25

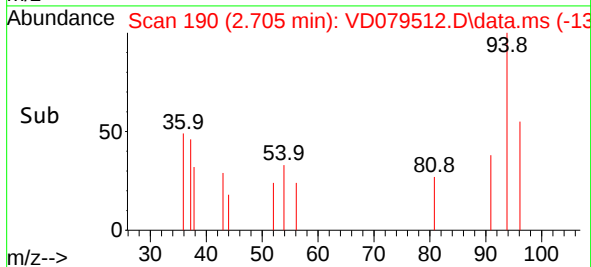
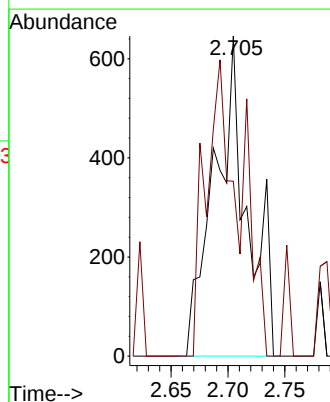
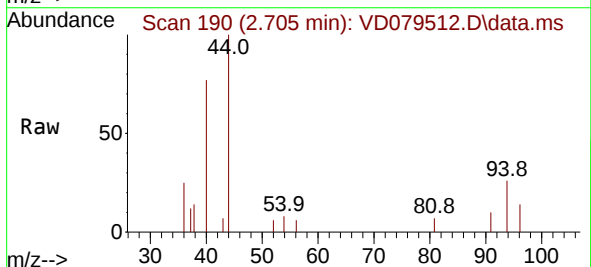
Instrument :
MSVOA_D
ClientSampleId :
S-862-K2-SO-12.75-13.25-072024

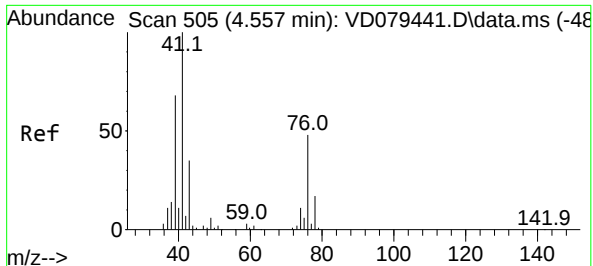
Tgt Ion:168 Resp: 196796
Ion Ratio Lower Upper
168 100
99 50.8 41.1 61.7



#5
Bromomethane
Concen: Below Cal
RT: 2.705 min Scan# 190
Delta R.T. 0.018 min
Lab File: VD079512.D
Acq: 01 Aug 2024 00:25

Tgt Ion: 94 Resp: 1288
Ion Ratio Lower Upper
94 100
96 73.4 76.9 115.3#

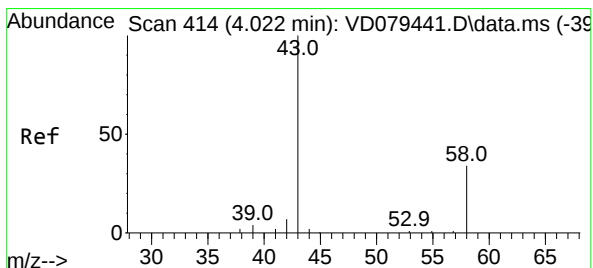
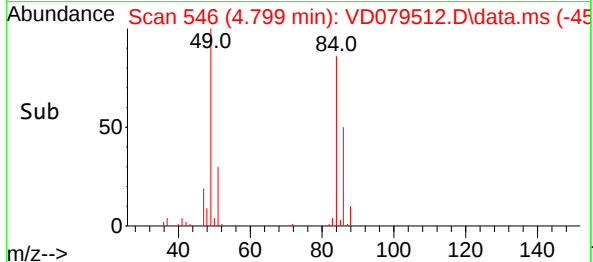
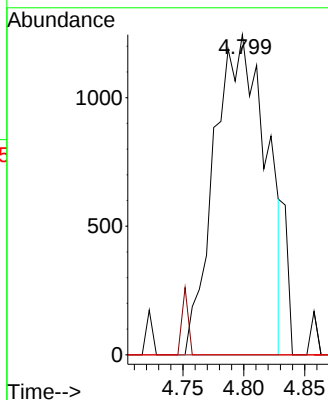
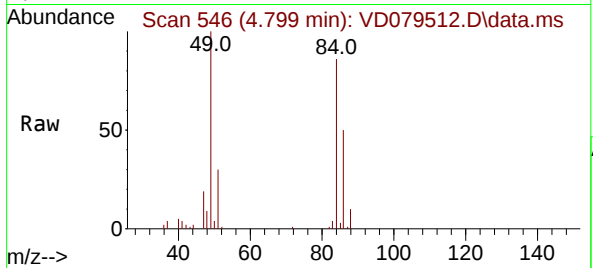




#14
 Allyl chloride
 Concen: 1.311 ug/l
 RT: 4.799 min Scan# 54
 Delta R.T. 0.247 min
 Lab File: VD079512.D
 Acq: 01 Aug 2024 00:25

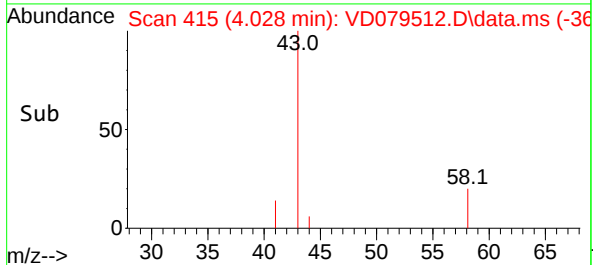
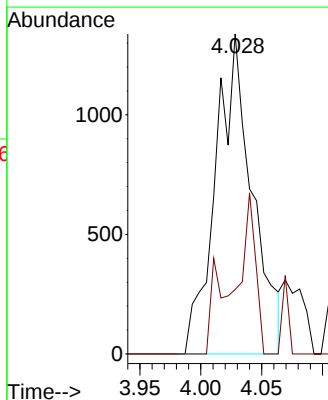
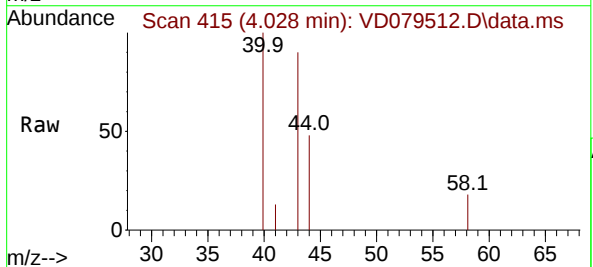
Instrument :
 MSVOA_D
 ClientSampleId :
 S-862-K2-SO-12.75-13.25-072024

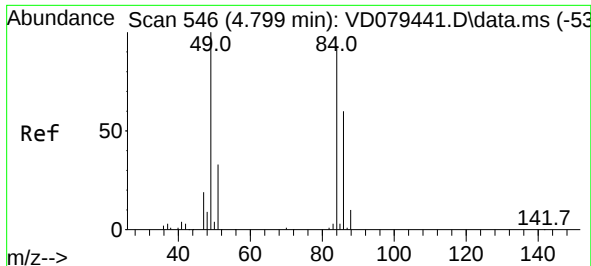
Tgt Ion: 41 Resp: 3681
 Ion Ratio Lower Upper
 41 100
 39 0.0 58.0 87.0#
 76 0.0 45.9 68.9#



#16
 Acetone
 Concen: 7.237 ug/l
 RT: 4.028 min Scan# 415
 Delta R.T. 0.006 min
 Lab File: VD079512.D
 Acq: 01 Aug 2024 00:25

Tgt Ion: 43 Resp: 2812
 Ion Ratio Lower Upper
 43 100
 58 20.2 30.4 45.6#

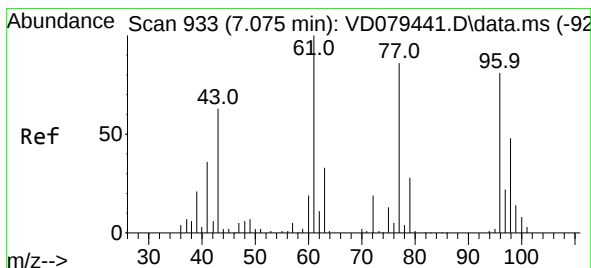
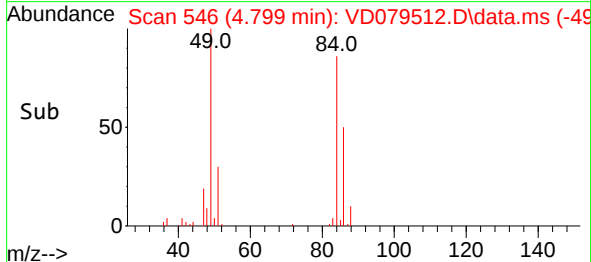
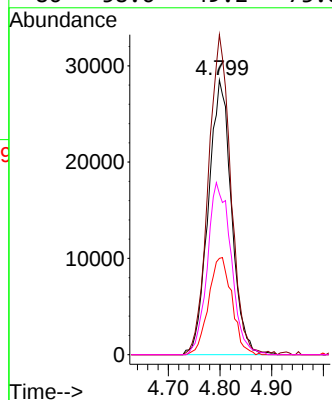
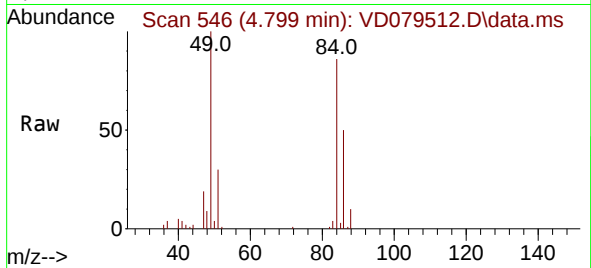




#20
Methylene Chloride
Concen: 23.577 ug/l
RT: 4.799 min Scan# 546
Delta R.T. -0.000 min
Lab File: VD079512.D
Acq: 01 Aug 2024 00:25

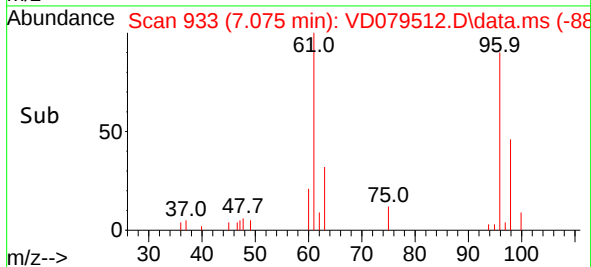
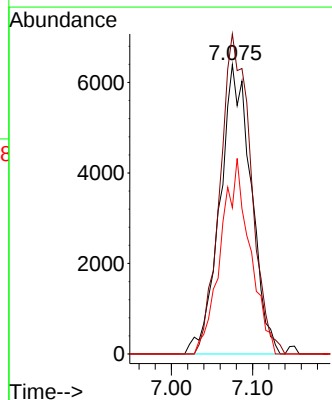
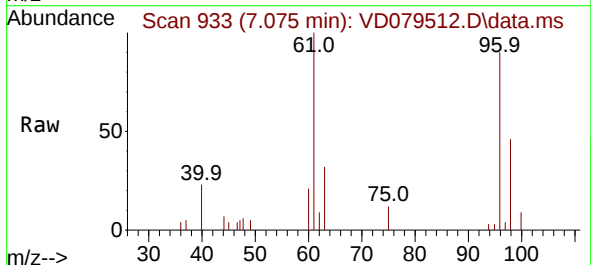
Instrument :
MSVOA_D
ClientSampleId :
S-862-K2-SO-12.75-13.25-072024

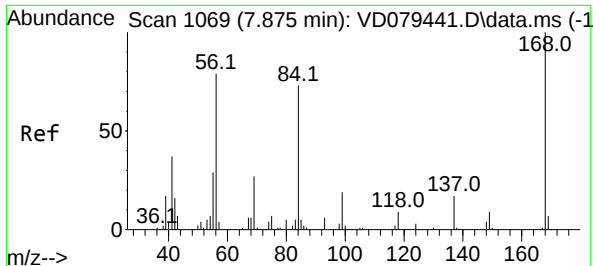
Tgt Ion:	84	Resp:	88501
Ion	Ratio	Lower	Upper
84	100		
49	116.5	75.6	113.4#
51	35.1	24.2	36.2
86	58.6	49.2	73.8



#27
cis-1,2-Dichloroethene
Concen: 6.286 ug/l
RT: 7.075 min Scan# 933
Delta R.T. -0.000 min
Lab File: VD079512.D
Acq: 01 Aug 2024 00:25

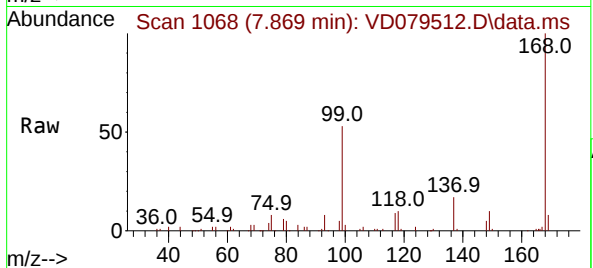
Tgt Ion:	96	Resp:	17164
Ion	Ratio	Lower	Upper
96	100		
61	108.8	0.0	229.0
98	62.7	0.0	127.2



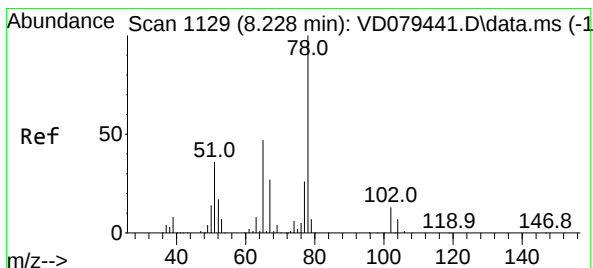
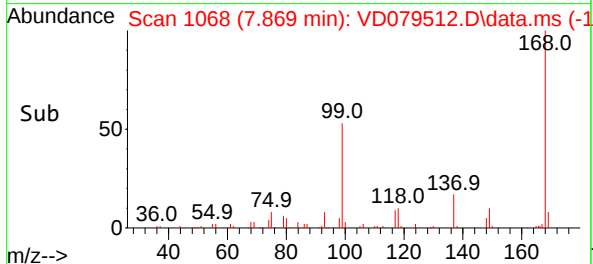
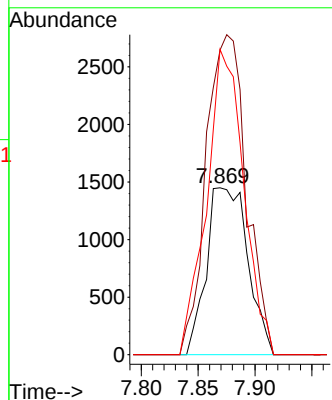


#31
Cyclohexane
Concen: 1.104 ug/l
RT: 7.869 min Scan# 1068
Delta R.T. -0.012 min
Lab File: VD079512.D
Acq: 01 Aug 2024 00:25

Instrument : MSVOA_D
ClientSampleId : S-862-K2-SO-12.75-13.25-072024

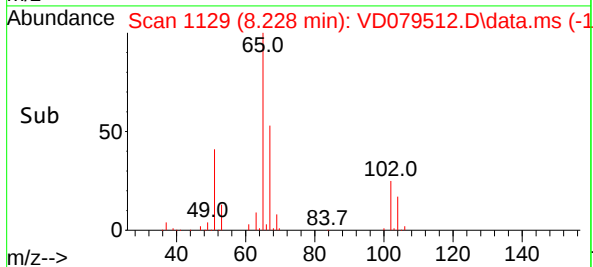
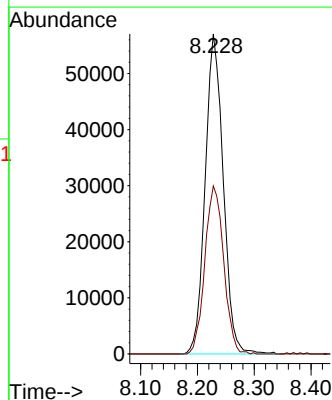
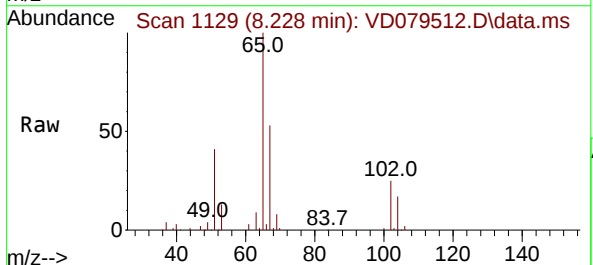


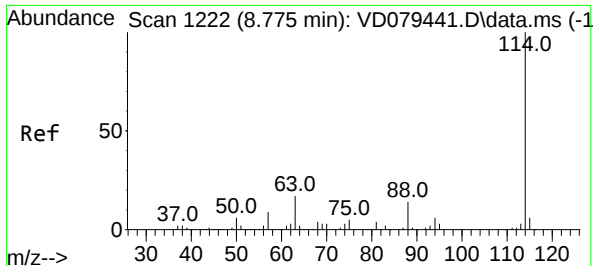
Tgt Ion: 56 Resp: 3667
Ion Ratio Lower Upper
56 100
69 182.5 28.0 42.0#
84 182.9 87.4 131.0#



#33
1,2-Dichloroethane-d4
Concen: 62.957 ug/l
RT: 8.228 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VD079512.D
Acq: 01 Aug 2024 00:25

Tgt Ion: 65 Resp: 125867
Ion Ratio Lower Upper
65 100
67 54.7 0.0 111.0

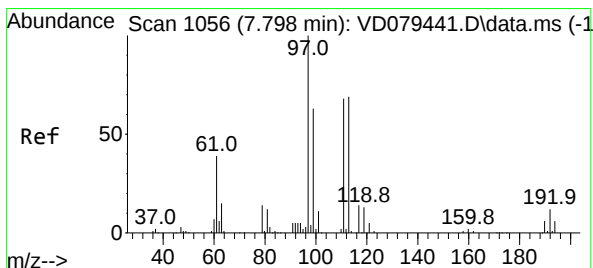
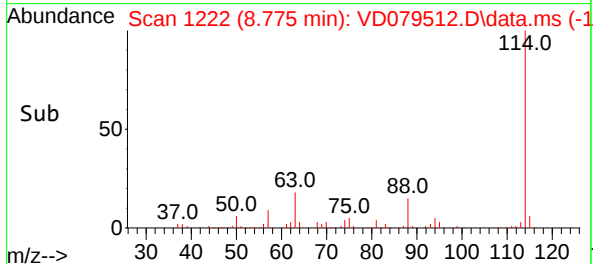
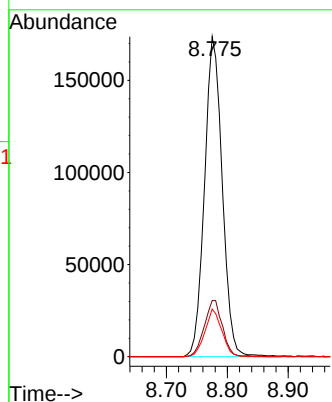
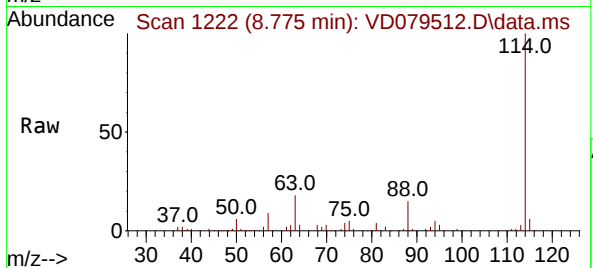




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.775 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD079512.D
Acq: 01 Aug 2024 00:25

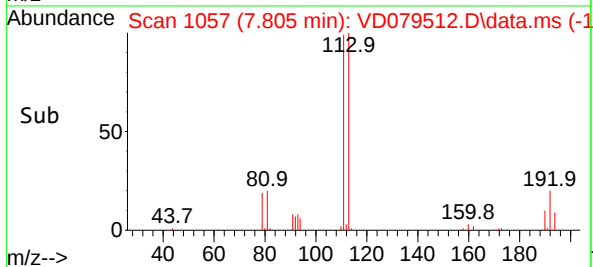
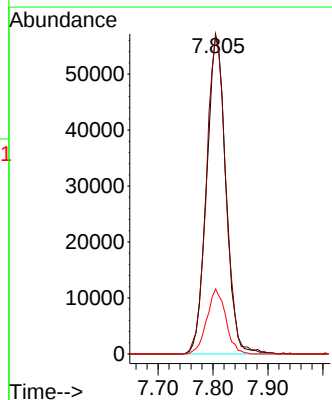
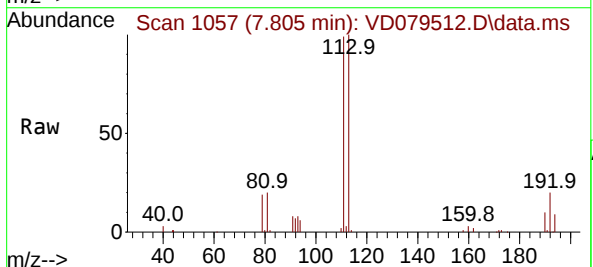
Instrument :
MSVOA_D
ClientSampleId :
S-862-K2-SO-12.75-13.25-072024

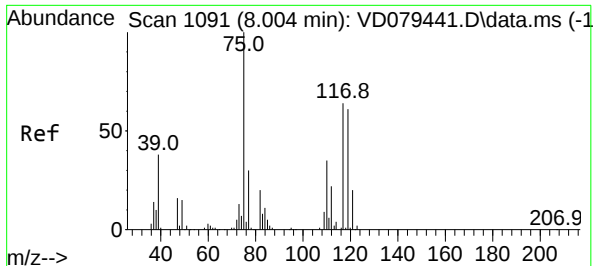
Tgt Ion:114 Resp: 350978
Ion Ratio Lower Upper
114 100
63 17.5 0.0 34.0
88 14.9 0.0 27.2



#35
Dibromofluoromethane
Concen: 58.275 ug/l
RT: 7.805 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VD079512.D
Acq: 01 Aug 2024 00:25

Tgt Ion:113 Resp: 138436
Ion Ratio Lower Upper
113 100
111 101.0 84.0 126.0
192 20.0 15.4 23.0





#36

1,1-Dichloropropene

Concen: 4.676 ug/l

RT: 7.869 min Scan# 1068

Delta R.T. -0.141 min

Lab File: VD079512.D

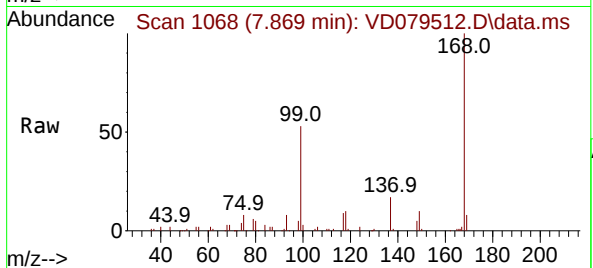
Acq: 01 Aug 2024 00:25

Instrument :

MSVOA_D

ClientSampleId :

S-862-K2-SO-12.75-13.25-072024



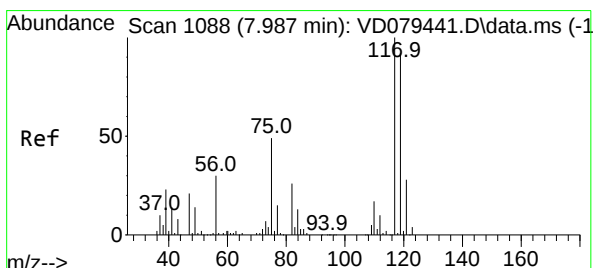
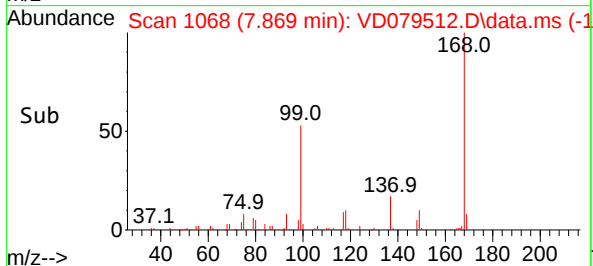
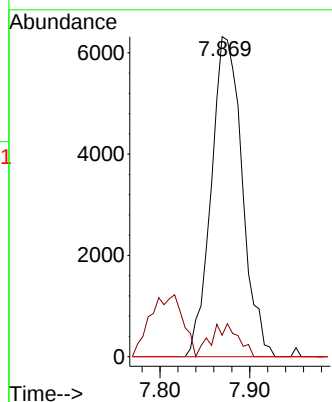
Tgt Ion: 75 Resp: 15161

Ion Ratio Lower Upper

75 100

110 9.0 19.6 58.7#

77 0.0 26.1 39.1#



#38

Carbon Tetrachloride

Concen: 5.360 ug/l

RT: 7.875 min Scan# 1069

Delta R.T. -0.112 min

Lab File: VD079512.D

Acq: 01 Aug 2024 00:25

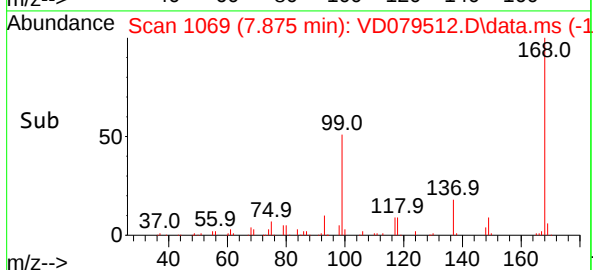
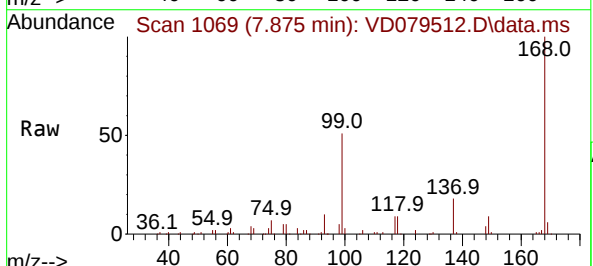
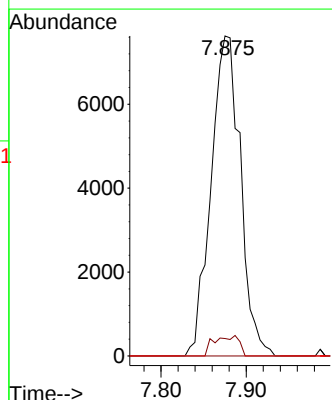
Tgt Ion: 117 Resp: 18270

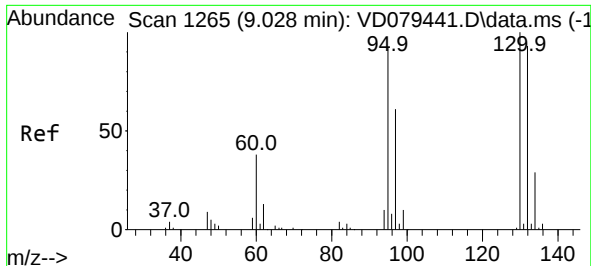
Ion Ratio Lower Upper

117 100

119 5.4 75.4 113.0#

121 0.0 25.0 37.4#

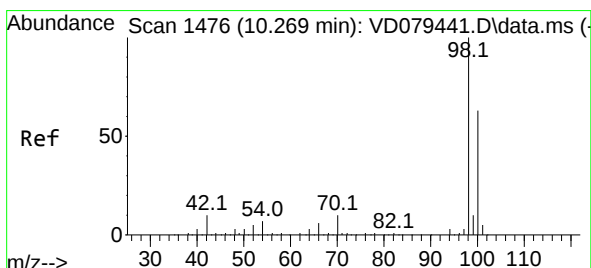
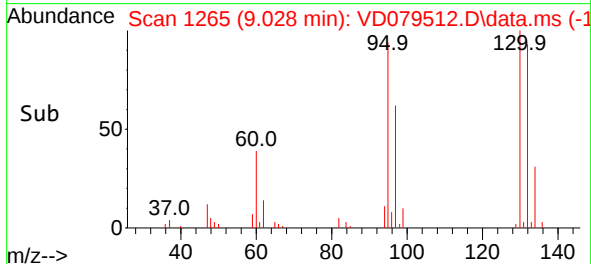
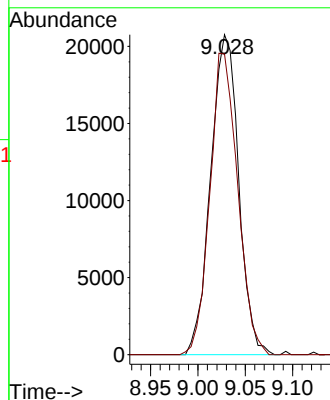
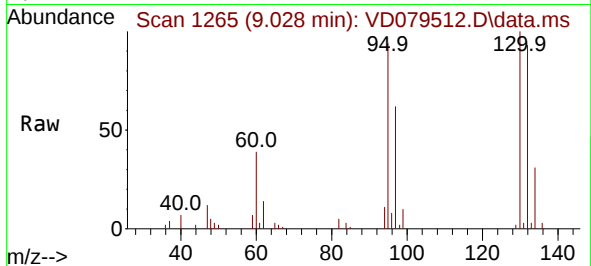




#44
Trichloroethene
Concen: 16.644 ug/l
RT: 9.028 min Scan# 1265
Delta R.T. -0.000 min
Lab File: VD079512.D
Acq: 01 Aug 2024 00:25

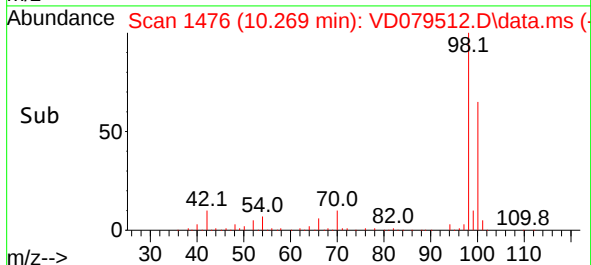
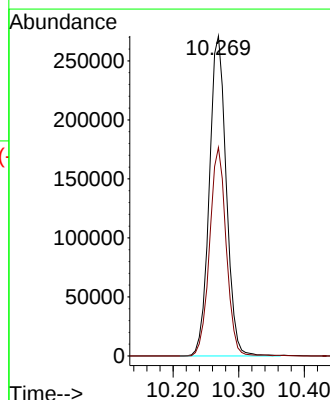
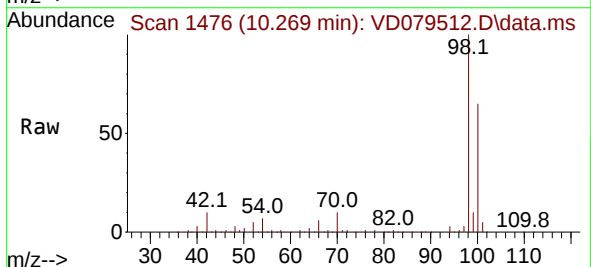
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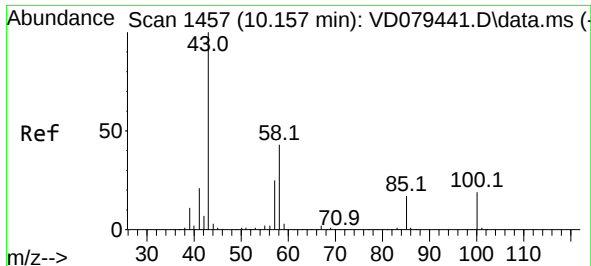
Tgt Ion:130 Resp: 42668
Ion Ratio Lower Upper
130 100
95 93.9 0.0 177.8



#50
Toluene-d8
Concen: 52.697 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VD079512.D
Acq: 01 Aug 2024 00:25

Tgt Ion: 98 Resp: 486139
Ion Ratio Lower Upper
98 100
100 63.8 51.6 77.4

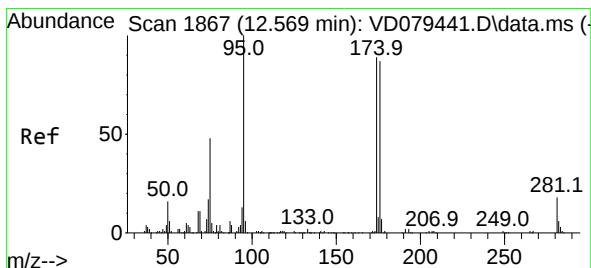
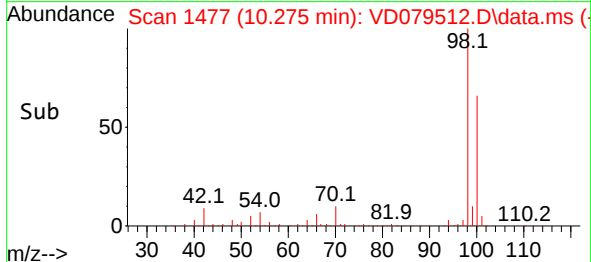
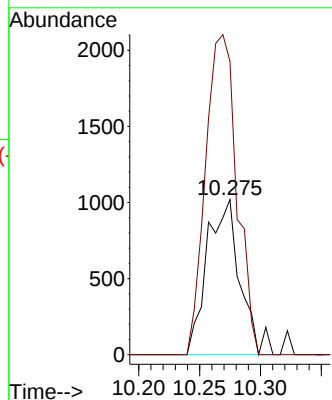
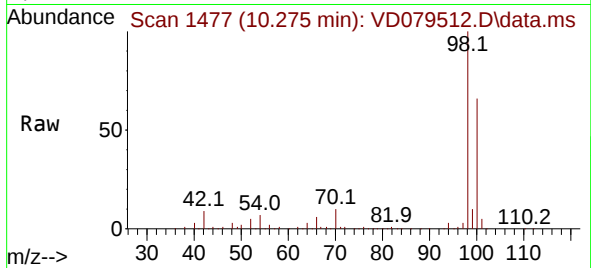




#51
4-Methyl-2-Pentanone
Concen: 1.509 ug/l
RT: 10.275 min Scan# 1457
Delta R.T. 0.118 min
Lab File: VD079512.D
Acq: 01 Aug 2024 00:25

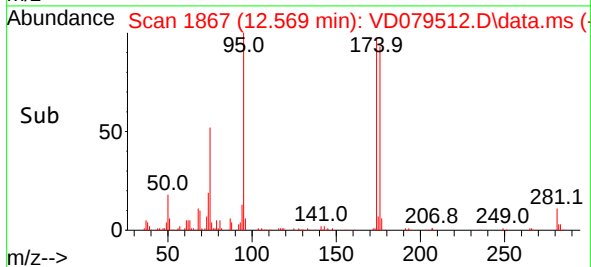
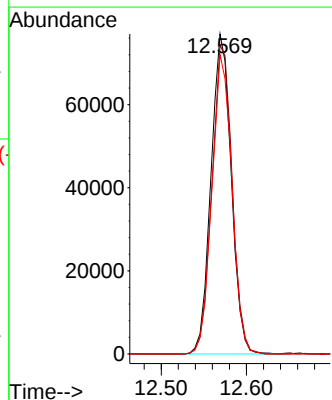
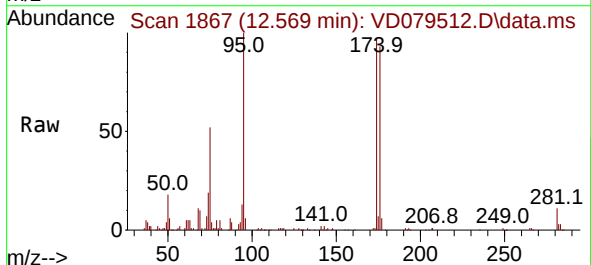
Instrument : MSVOA_D
ClientSampleId : S-862-K2-SO-12.75-13.25-072024

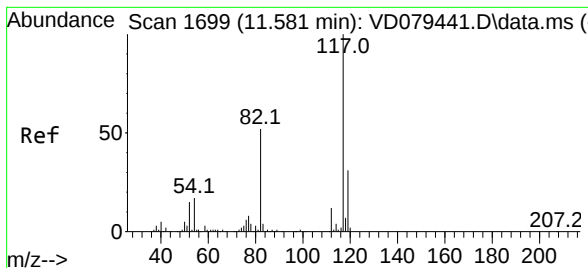
Tgt Ion: 43 Resp: 1925
Ion Ratio Lower Upper
43 100
58 196.2 36.6 55.0#



#62
4-Bromofluorobenzene
Concen: 47.528 ug/l
RT: 12.569 min Scan# 1867
Delta R.T. -0.000 min
Lab File: VD079512.D
Acq: 01 Aug 2024 00:25

Tgt Ion: 95 Resp: 126881
Ion Ratio Lower Upper
95 100
174 96.8 0.0 195.4
176 92.4 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: VD079512.D

Acq: 01 Aug 2024 00:25

Instrument :

MSVOA_D

ClientSampleId :

S-862-K2-SO-12.75-13.25-072024

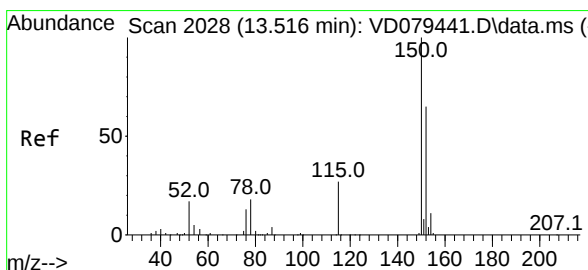
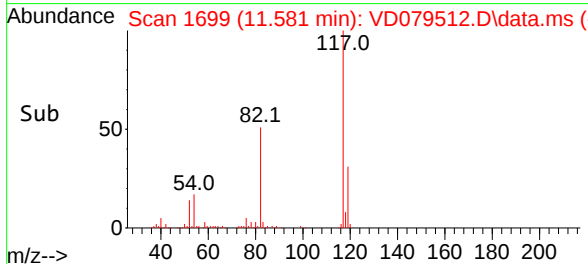
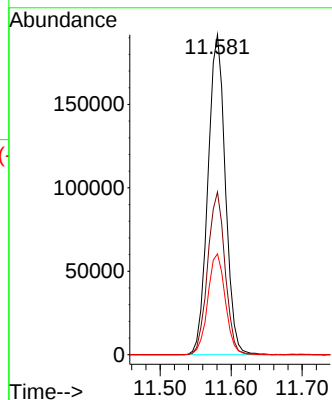
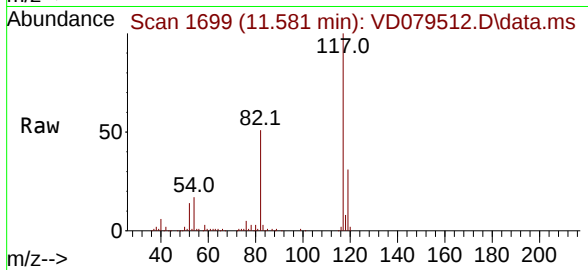
Tgt Ion:117 Resp: 326720

Ion Ratio Lower Upper

117 100

82 50.9 39.8 59.6

119 31.5 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.516 min Scan# 2028

Delta R.T. 0.006 min

Lab File: VD079512.D

Acq: 01 Aug 2024 00:25

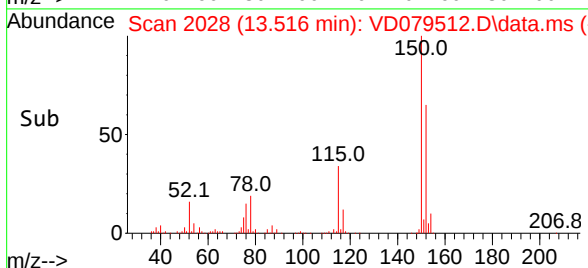
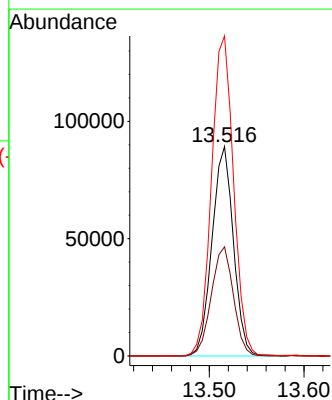
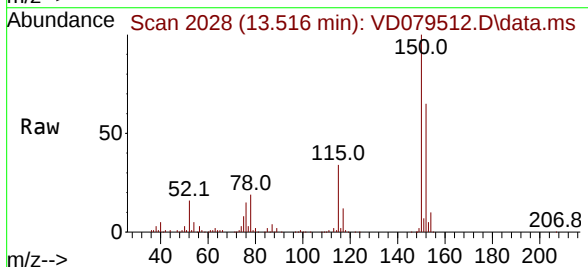
Tgt Ion:152 Resp: 140186

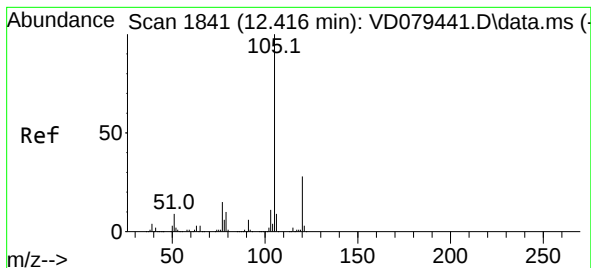
Ion Ratio Lower Upper

152 100

115 53.8 26.5 79.5

150 157.2 0.0 341.6





#73

Isopropylbenzene

Concen: 3.641 ug/l

RT: 12.416 min Scan# 1841

Delta R.T. 0.000 min

Lab File: VD079512.D

Acq: 01 Aug 2024 00:25

Instrument :

MSVOA_D

ClientSampleId :

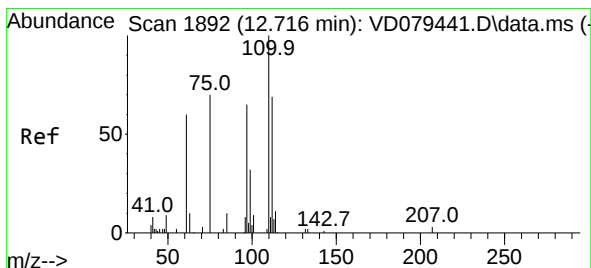
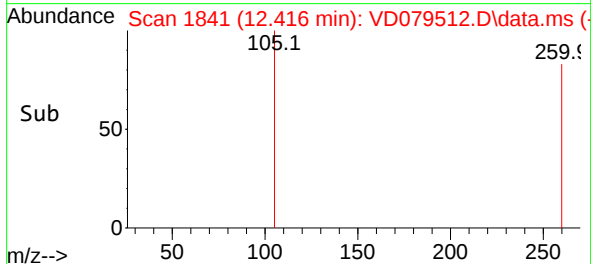
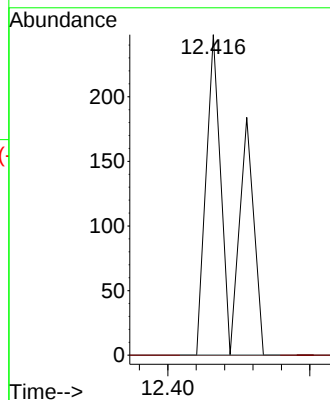
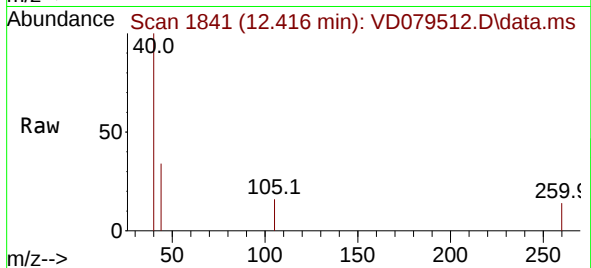
S-862-K2-SO-12.75-13.25-072024

Tgt Ion:105 Resp: 152

Ion Ratio Lower Upper

105 100

120 0.0 13.6 40.7#



#76

1,2,3-Trichloropropane

Concen: 51.354 ug/l

RT: 12.569 min Scan# 1867

Delta R.T. -0.153 min

Lab File: VD079512.D

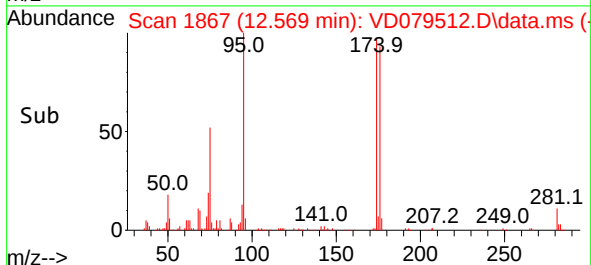
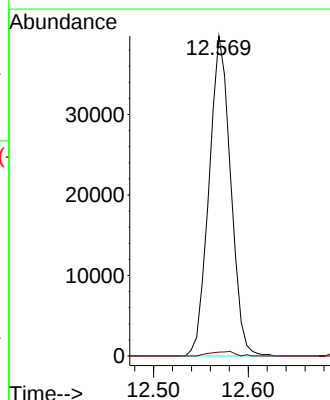
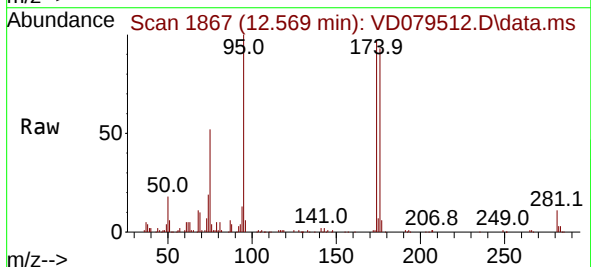
Acq: 01 Aug 2024 00:25

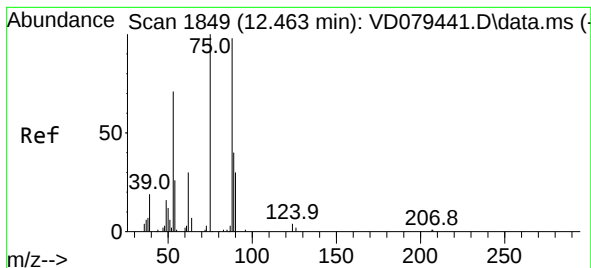
Tgt Ion: 75 Resp: 62927

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#

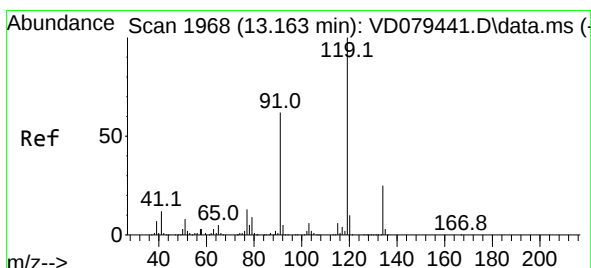
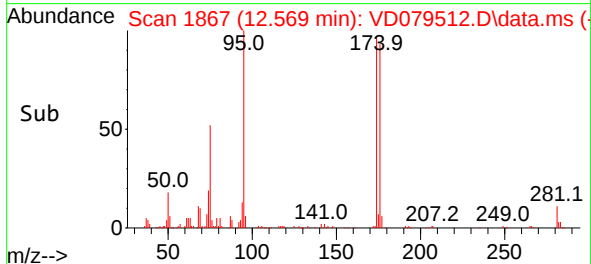
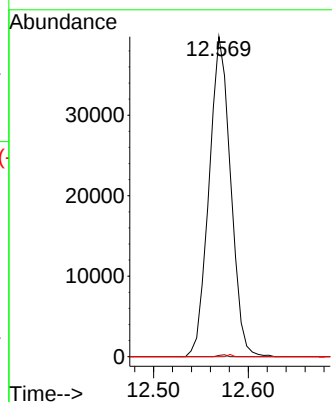
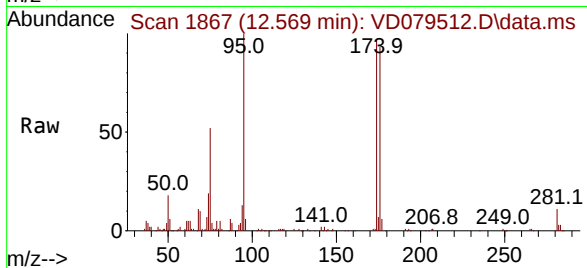




#81
trans-1,4-Dichloro-2-butene
Concen: 97.945 ug/l
RT: 12.569 min Scan# 1849
Delta R.T. 0.100 min
Lab File: VD079512.D
Acq: 01 Aug 2024 00:25

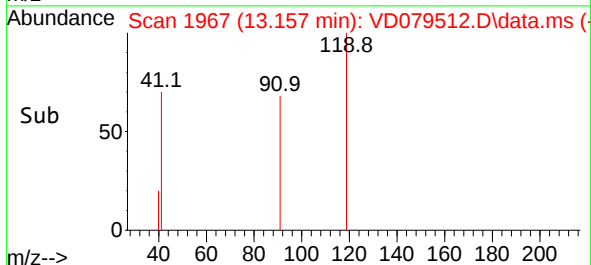
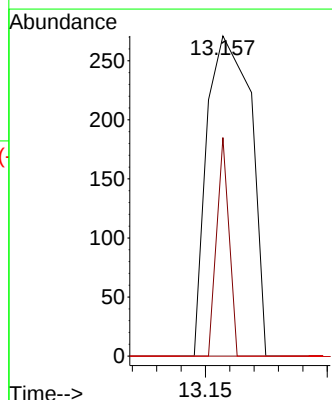
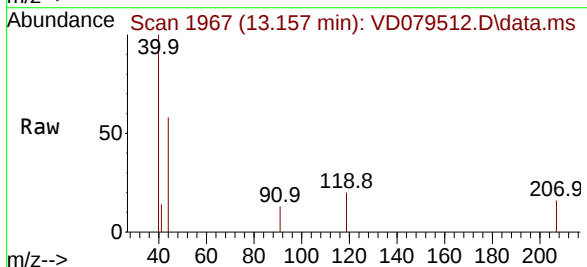
Instrument : MSVOA_D
ClientSampleId : S-862-K2-SO-12.75-13.25-072024

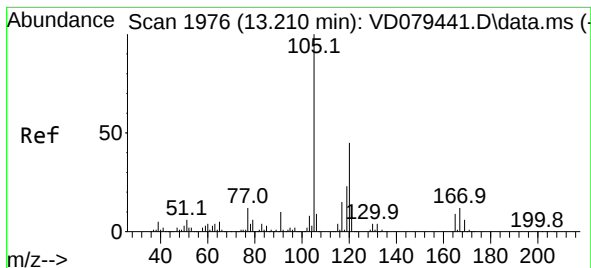
Tgt Ion: 75 Resp: 62927
Ion Ratio Lower Upper
75 100
53 0.2 61.4 92.2#
89 0.2 35.4 53.0#



#83
tert-Butylbenzene
Concen: 3.669 ug/l
RT: 13.157 min Scan# 1967
Delta R.T. -0.006 min
Lab File: VD079512.D
Acq: 01 Aug 2024 00:25

Tgt Ion: 119 Resp: 338
Ion Ratio Lower Upper
119 100
91 19.2 28.2 84.7#
134 0.0 13.4 40.1#





#84

1,2,4-Trimethylbenzene

Concen: 3.511 ug/l

RT: 13.216 min Scan# 1976

Delta R.T. 0.012 min

Lab File: VD079512.D

Acq: 01 Aug 2024 00:25

Instrument :

MSVOA_D

ClientSampleId :

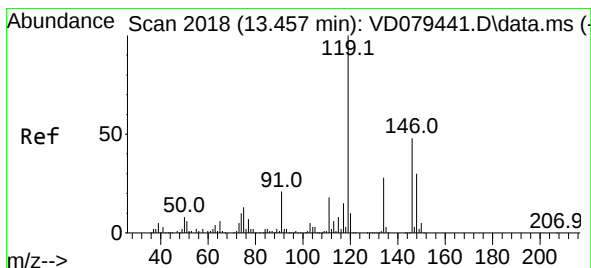
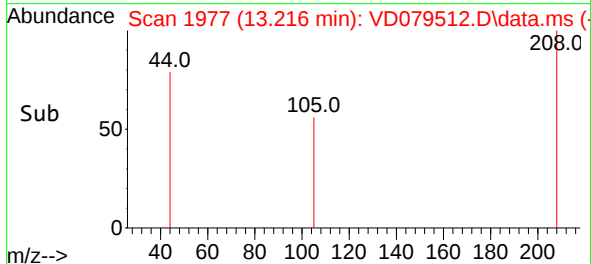
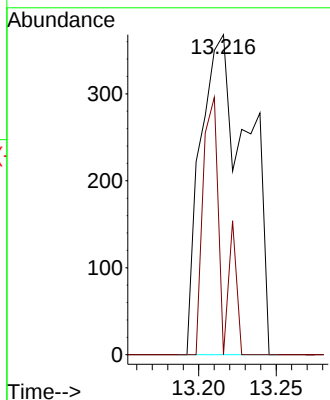
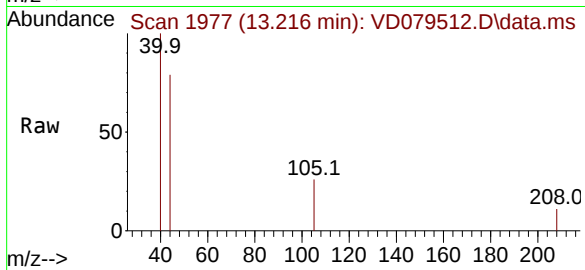
S-862-K2-SO-12.75-13.25-072024

Tgt Ion:105 Resp: 782

Ion Ratio Lower Upper

105 100

120 31.8 23.6 71.0



#86

p-Isopropyltoluene

Concen: 3.945 ug/l

RT: 13.463 min Scan# 2019

Delta R.T. 0.006 min

Lab File: VD079512.D

Acq: 01 Aug 2024 00:25

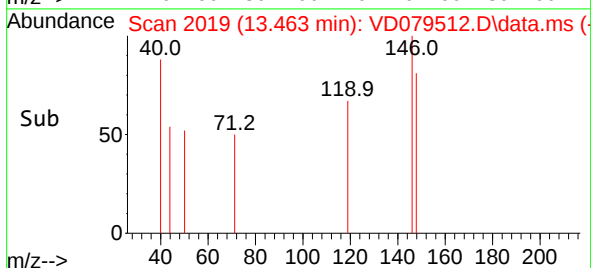
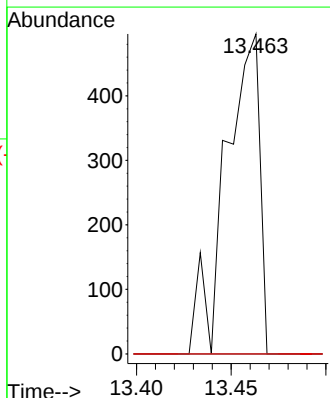
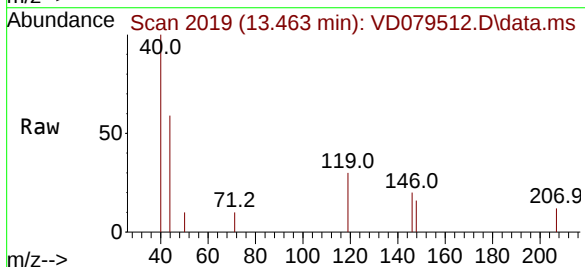
Tgt Ion:119 Resp: 620

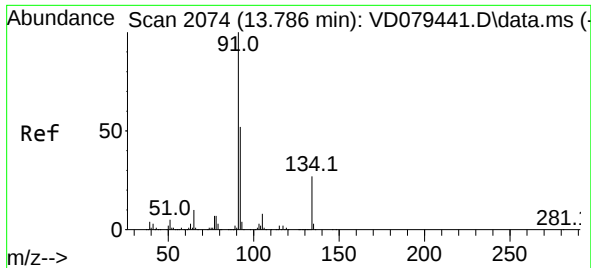
Ion Ratio Lower Upper

119 100

134 0.0 13.7 41.1#

91 0.0 10.7 32.1#





#89

n-Butylbenzene

Concen: 3.878 ug/l

RT: 13.787 min Scan# 20

Delta R.T. 0.006 min

Lab File: VD079512.D

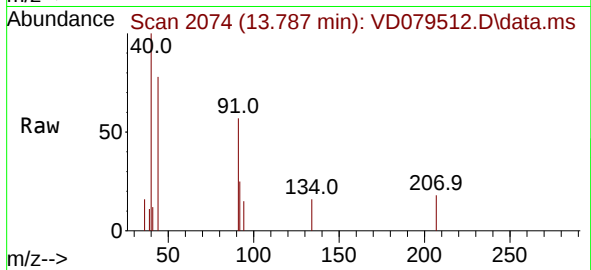
Acq: 01 Aug 2024 00:25

Instrument :

MSVOA_D

ClientSampleId :

S-862-K2-SO-12.75-13.25-072024



Tgt Ion: 91 Resp: 944

Ion Ratio Lower Upper

91 100

92 36.2 25.7 77.0

134 17.9 13.6 40.8

