

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW101422\
 Data File : VW028557.D
 Acq On : 14 Oct 2022 18:49
 Operator : SY/MD
 Sample : N5109-04
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFZ07

Quant Time: Oct 15 02:59:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR101422WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Oct 15 02:57:21 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.613	114	238989	5.000	ug/L	0.01
28) Chlorobenzene-d5	8.847	117	220239	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.243	152	100398	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	113807	5.533	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	110.600%
7) Chloroethane-d5	1.564	69	88792	5.251	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.000%
11) 1,1-Dichloroethene-d2	2.105	63	153328	4.116	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	82.400%
20) 2-Butanone-d5	3.905	46	95101	21.508	ug/L	-0.04
Spiked Amount	50.000	Range	40 - 130	Recovery	=	43.020%
24) Chloroform-d	4.342	84	139320	4.424	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.400%
26) 1,2-Dichloroethane-d4	5.031	65	69187	4.215	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.200%
32) Benzene-d6	5.047	84	299060	4.205	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.200%
36) 1,2-Dichloropropane-d6	6.066	67	94273	4.108	ug/L	0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	82.200%
41) Toluene-d8	7.310	98	255995	4.544	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.800%
43) trans-1,3-Dichloroprop...	7.622	79	25461	3.284	ug/L	0.01
Spiked Amount	5.000	Range	55 - 130	Recovery	=	65.600%
46) 2-Hexanone-d5	8.088	63	125691	37.563	ug/L	-0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	75.120%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	55246	4.043	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	80.800%
66) 1,2-Dichlorobenzene-d4	11.616	152	74652	4.506	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.200%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	173423	7.881	ug/L	98
6) Bromomethane	1.526	94	837	0.084	ug/L	80
8) Chloroethane	1.584	64	11224	0.786	ug/L #	56
12) 1,1-Dichloroethene	2.114	96	4729	0.318	ug/L #	1
15) Methyl Acetate	2.494	43	6517	0.887	ug/L #	63
17) Methyl tert-butyl Ether	2.767	73	6007	0.159	ug/L #	1
18) trans-1,2-Dichloroethene	2.761	96	4655	0.300	ug/L	96
19) 1,1-Dichloroethane	3.185	63	123774	3.549	ug/L	97
22) cis-1,2-Dichloroethene	3.908	96	83317	4.755	ug/L #	94
25) Chloroform	4.371	83	22143	0.670	ug/L	96
27) 1,2-Dichloroethane	5.137	62	13573	0.690	ug/L #	89
29) 1,1,1-Trichloroethane	4.609	97	9971	0.328	ug/L	97
30) Cyclohexane	4.670	56	11323	0.322	ug/L #	90
33) Benzene	5.101	78	31116	0.400	ug/L	100
34) Trichloroethene	5.921	95	4314	0.232	ug/L	89
35) Methylcyclohexane	6.066	83	21022	0.679	ug/L #	18
37) 1,2-Dichloropropane	6.069	63	10839	0.547	ug/L #	88
39) cis-1,3-Dichloropropene	6.985	75	2332	0.088	ug/L #	67
45) 1,1,2-Trichloroethane	7.841	97	5950	0.540	ug/L	93

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

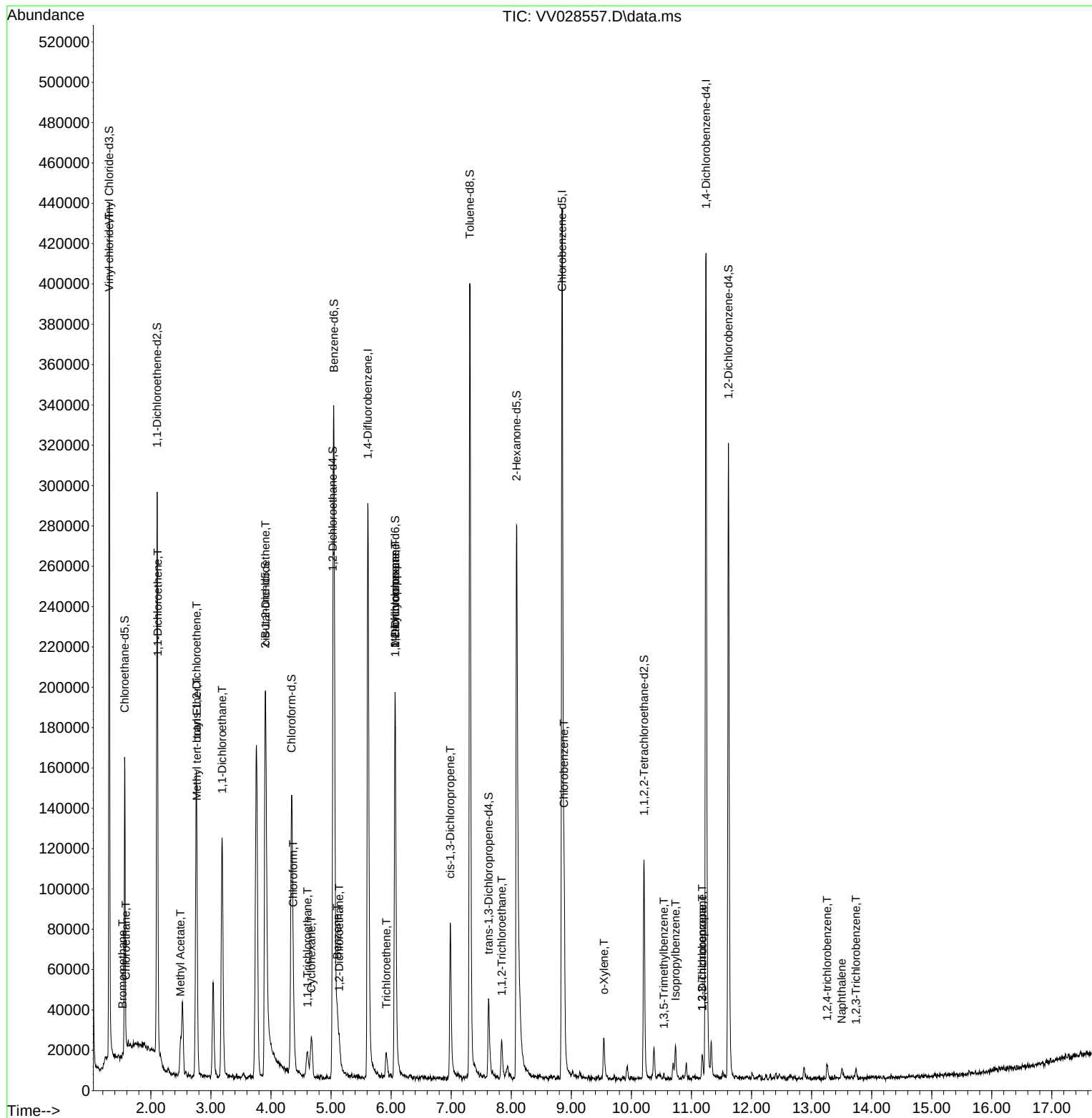
51) Chlorobenzene	8.879	112	50950	1.126	ug/L	99
54) o-Xylene	9.545	106	5569	0.189	ug/L	100
60) Isopropylbenzene	10.735	105	9347	0.128	ug/L	93
61) 1,2,3-Trichloropropane	11.181	75	1783	0.199	ug/L #	45
62) 1,3,5-Trimethylbenzene	10.538	105	1239	0.056	ug/L	95
64) 1,3-Dichlorobenzene	11.181	146	4133	0.134	ug/L	99
70) 1,2,4-trichlorobenzene	13.259	180	1817	0.105	ug/L #	84
71) Naphthalene	13.503	128	3350	0.130	ug/L #	86
72) 1,2,3-Trichlorobenzene	13.741	180	1137	0.080	ug/L #	76

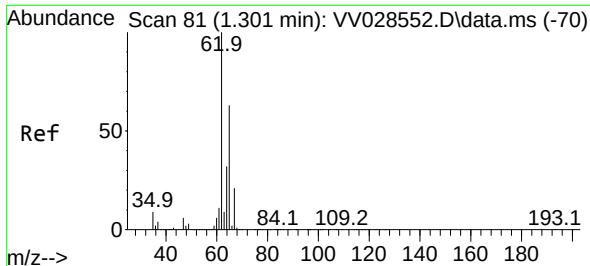
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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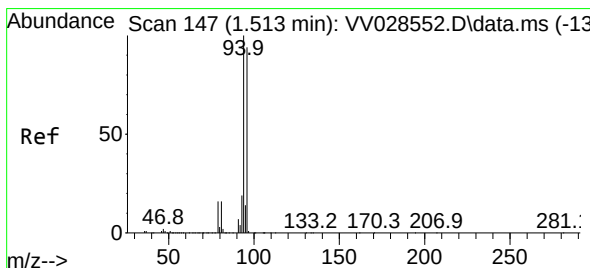
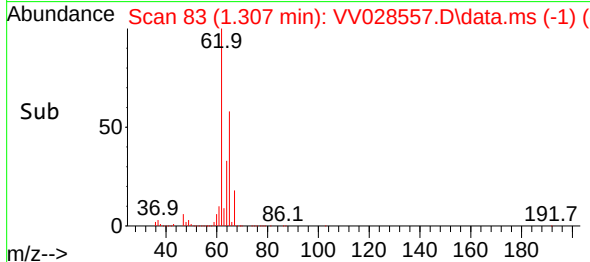
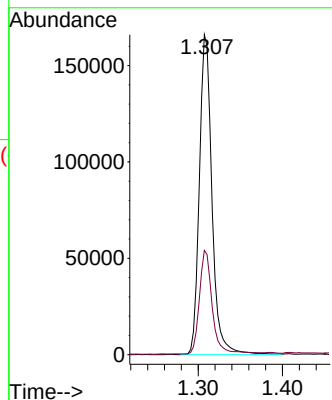
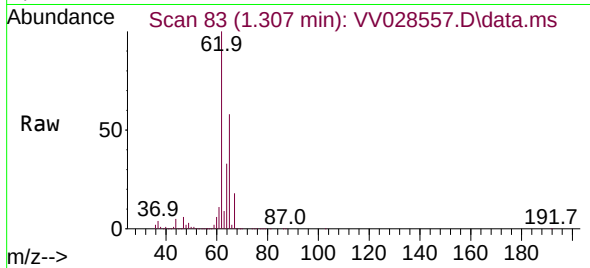




#5
 Vinyl chloride
 Concen: 7.881 ug/L
 RT: 1.307 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VV028557.D
 Acq: 14 Oct 2022 18:49

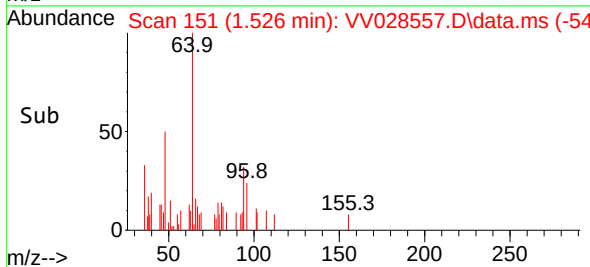
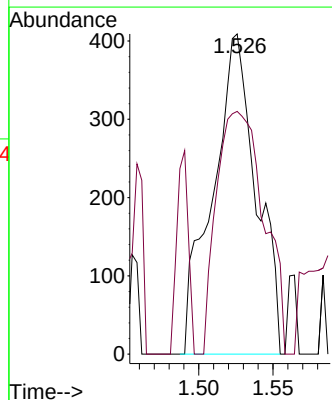
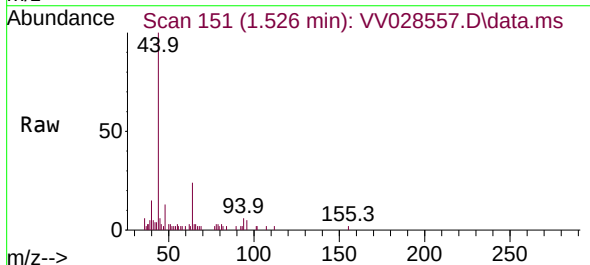
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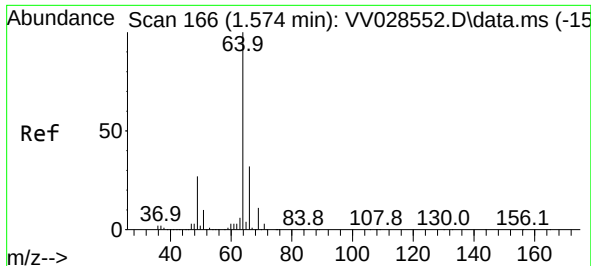
Tgt Ion: 62 Resp: 173423
 Ion Ratio Lower Upper
 62 100
 64 32.6 23.7 44.1



#6
 Bromomethane
 Concen: 0.084 ug/L
 RT: 1.526 min Scan# 151
 Delta R.T. 0.013 min
 Lab File: VV028557.D
 Acq: 14 Oct 2022 18:49

Tgt Ion: 94 Resp: 837
 Ion Ratio Lower Upper
 94 100
 96 75.8 67.0 124.4

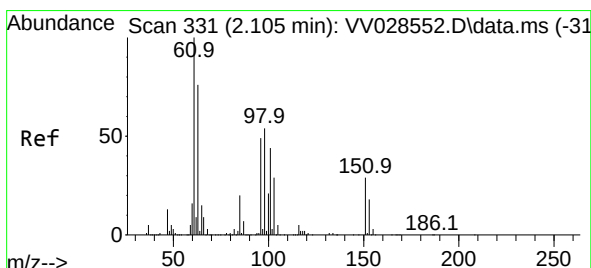
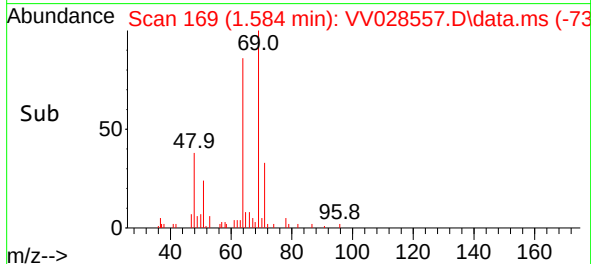
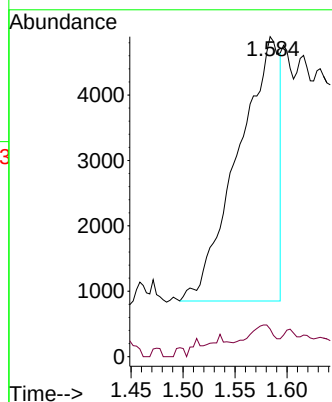
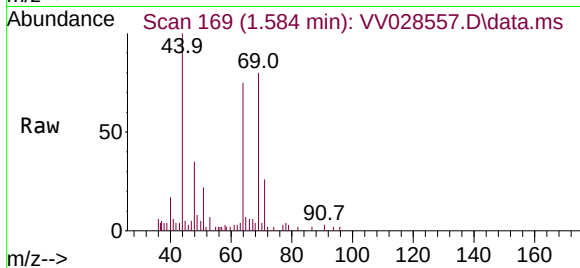




#8
Chloroethane
Concen: 0.786 ug/L
RT: 1.584 min Scan# 1
Delta R.T. 0.010 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

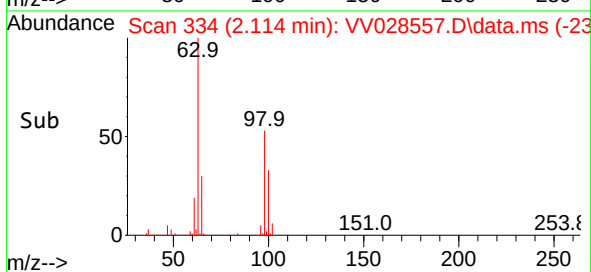
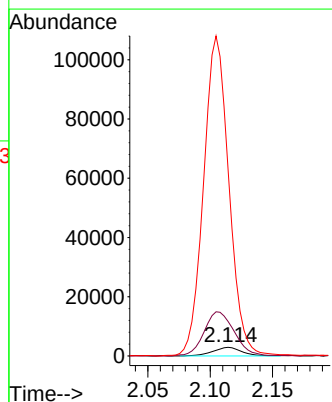
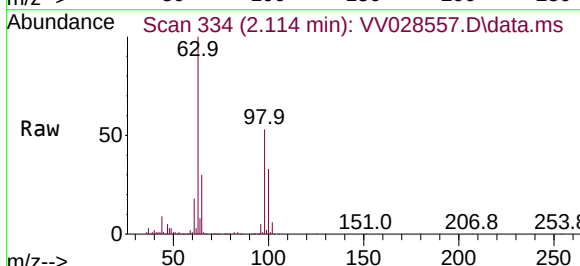
Instrument :
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ClientSampleId :
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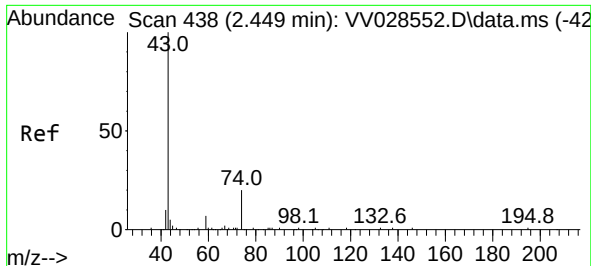
Tgt Ion: 64 Resp: 11224
Ion Ratio Lower Upper
64 100
66 7.9 23.0 42.8#



#12
1,1-Dichloroethene
Concen: 0.318 ug/L
RT: 2.114 min Scan# 334
Delta R.T. 0.010 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

Tgt Ion: 96 Resp: 4729
Ion Ratio Lower Upper
96 100
61 398.3 142.9 265.5#
63 2154.9 102.3 190.1#

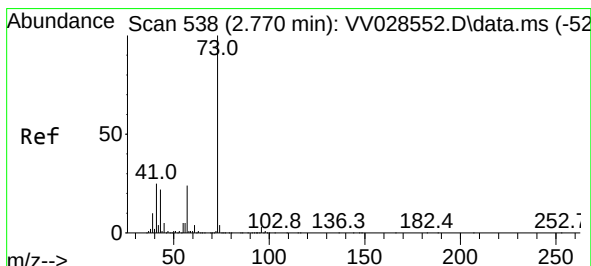
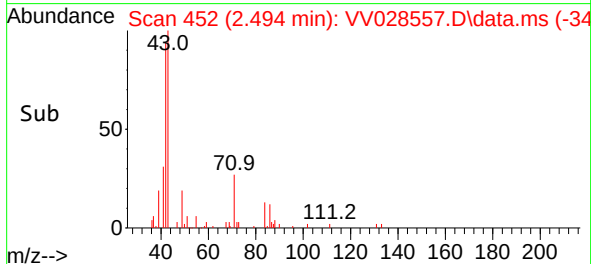
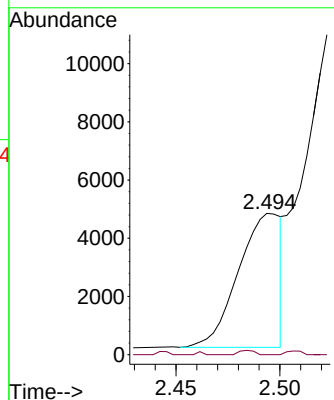
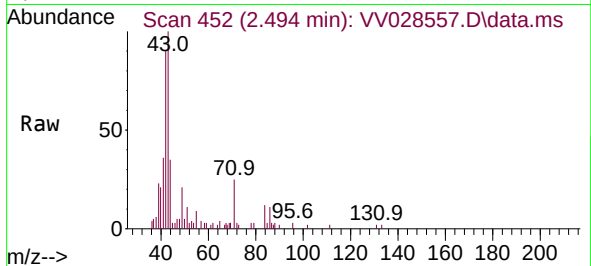




#15
Methyl Acetate
Concen: 0.887 ug/L
RT: 2.494 min Scan# 41
Delta R.T. 0.045 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

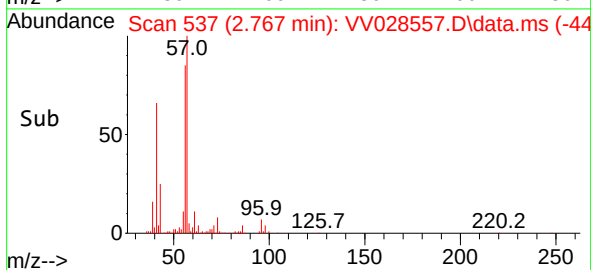
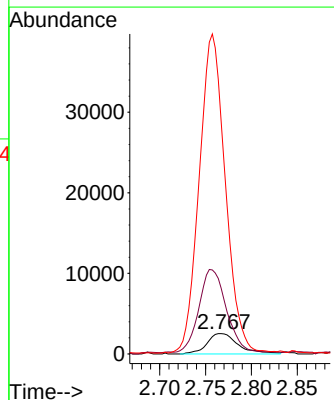
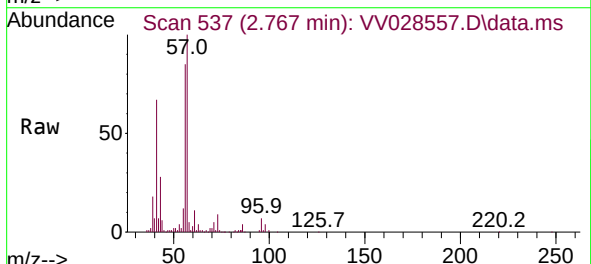
Instrument :
MSVOA_V
ClientSampleId :
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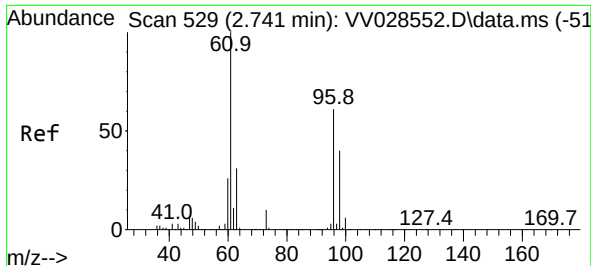
Tgt Ion: 43 Resp: 6517
Ion Ratio Lower Upper
43 100
74 1.2 13.8 20.6#



#17
Methyl tert-butyl Ether
Concen: 0.159 ug/L
RT: 2.767 min Scan# 537
Delta R.T. -0.003 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

Tgt Ion: 73 Resp: 6007
Ion Ratio Lower Upper
73 100
43 354.9 18.2 27.2#
57 1305.5 19.5 29.3#

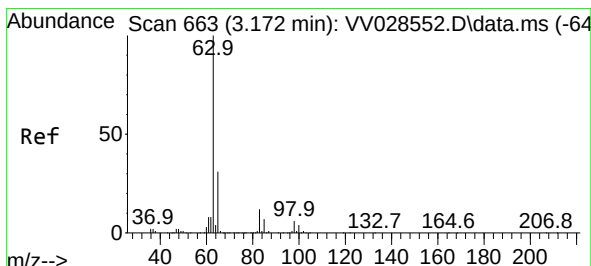
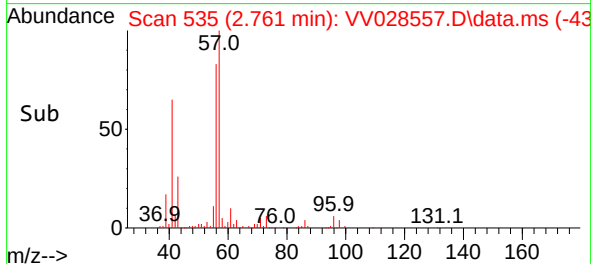
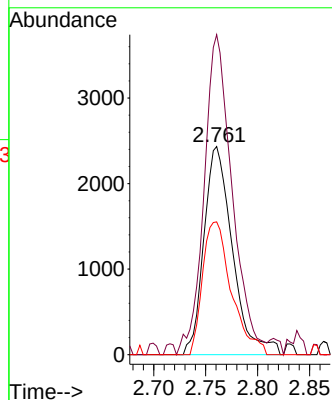
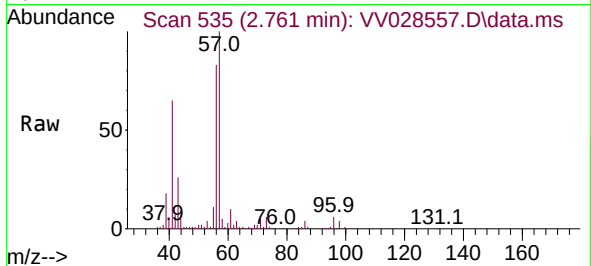




#18
trans-1,2-Dichloroethene
Concen: 0.300 ug/L
RT: 2.761 min Scan# 51
Delta R.T. 0.019 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

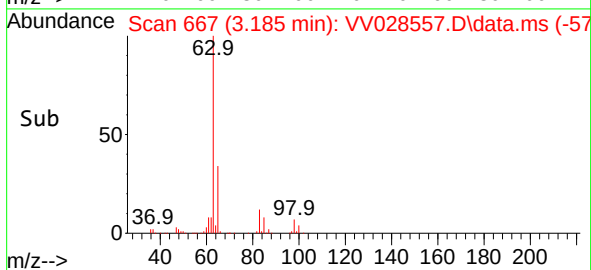
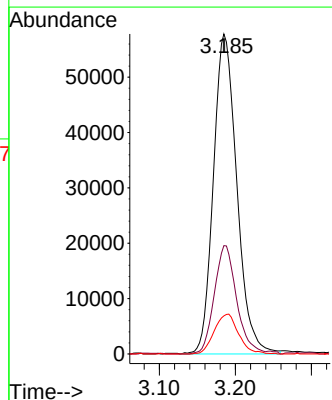
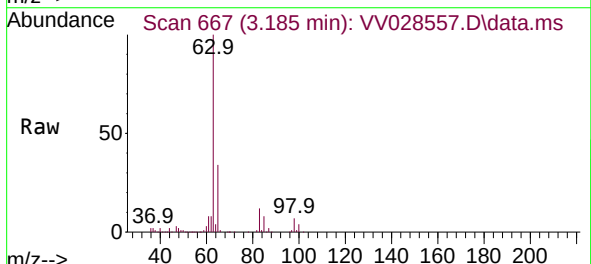
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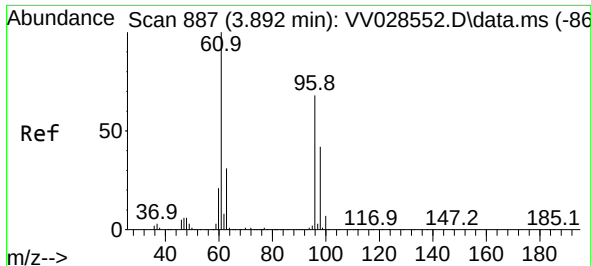
Tgt Ion: 96 Resp: 4655
Ion Ratio Lower Upper
96 100
61 153.7 111.2 206.6
98 63.8 42.9 79.7



#19
1,1-Dichloroethane
Concen: 3.549 ug/L
RT: 3.185 min Scan# 667
Delta R.T. 0.013 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

Tgt Ion: 63 Resp: 123774
Ion Ratio Lower Upper
63 100
65 33.9 22.3 41.5
83 11.9 8.5 15.7

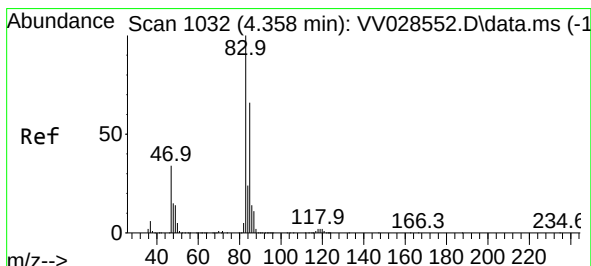
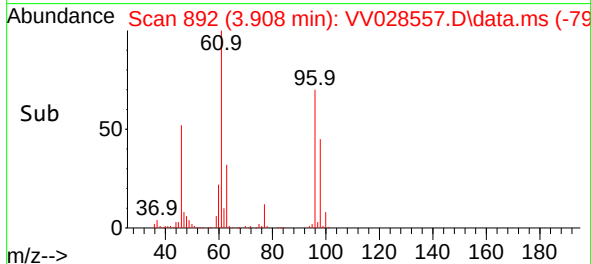
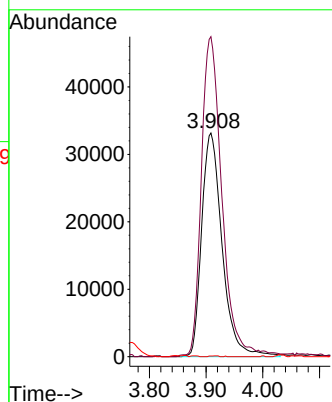
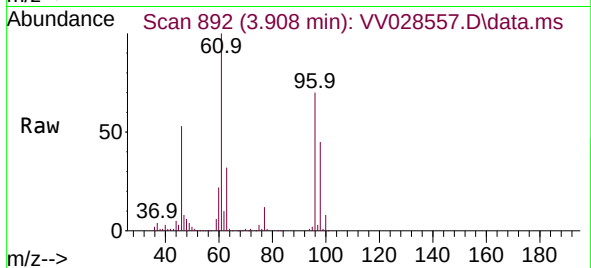




#22
 cis-1,2-Dichloroethene
 Concen: 4.755 ug/L
 RT: 3.908 min Scan# 891
 Delta R.T. 0.016 min
 Lab File: VV028557.D
 Acq: 14 Oct 2022 18:49

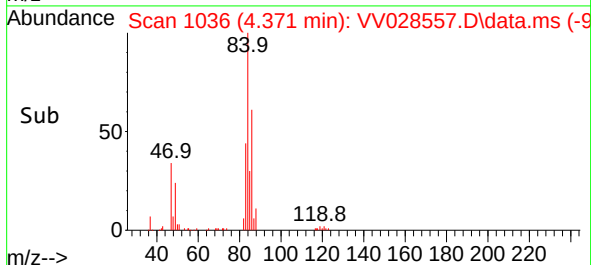
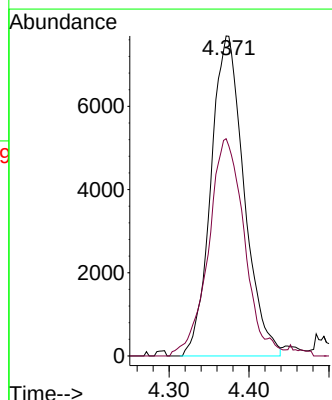
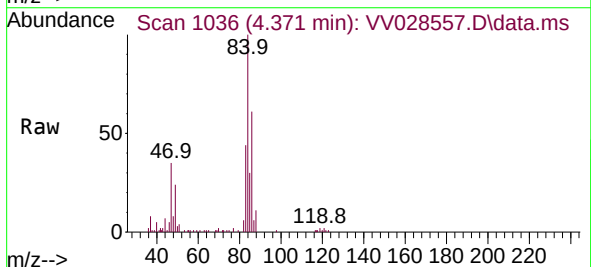
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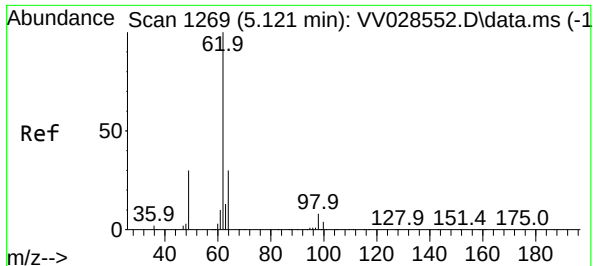
Tgt Ion: 96 Resp: 83317
 Ion Ratio Lower Upper
 96 100
 61 143.0 105.1 195.3
 68 0.3 0.5 0.9#



#25
 Chloroform
 Concen: 0.670 ug/L
 RT: 4.371 min Scan# 1036
 Delta R.T. 0.013 min
 Lab File: VV028557.D
 Acq: 14 Oct 2022 18:49

Tgt Ion: 83 Resp: 22143
 Ion Ratio Lower Upper
 83 100
 85 67.9 45.1 83.9





#27

1,2-Dichloroethane

Concen: 0.690 ug/L

RT: 5.137 min Scan# 1110

Delta R.T. 0.016 min

Lab File: VV028557.D

Acq: 14 Oct 2022 18:49

Instrument :

MSVOA_V

ClientSampleId :

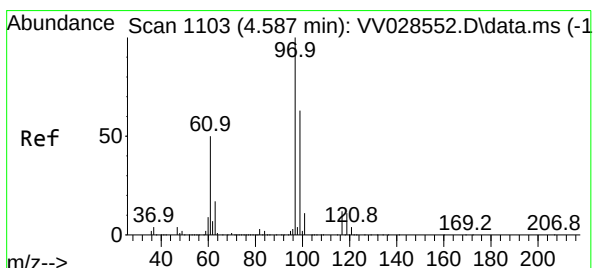
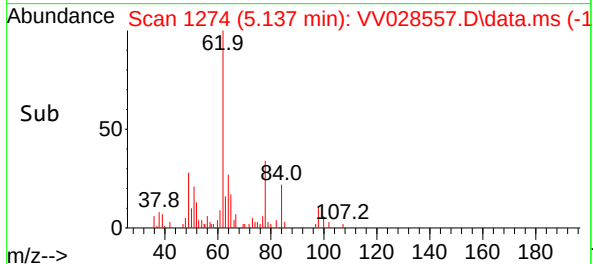
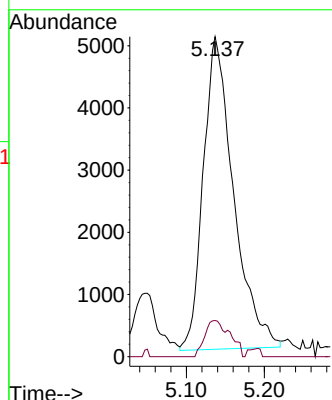
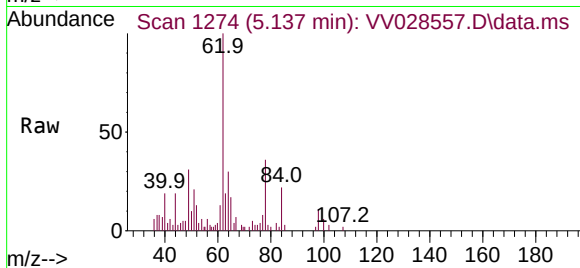
BFZ07

Tgt Ion: 62 Resp: 13573

Ion Ratio Lower Upper

62 100

98 11.3 5.9 8.9#



#29

1,1,1-Trichloroethane

Concen: 0.328 ug/L

RT: 4.609 min Scan# 1110

Delta R.T. 0.023 min

Lab File: VV028557.D

Acq: 14 Oct 2022 18:49

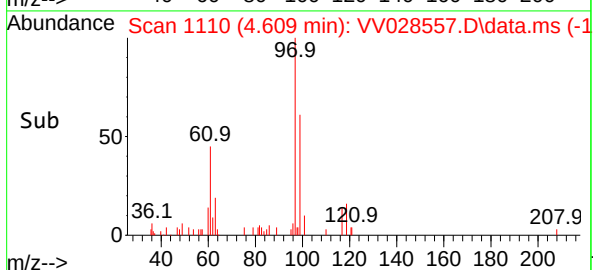
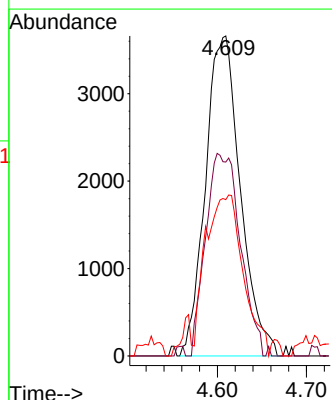
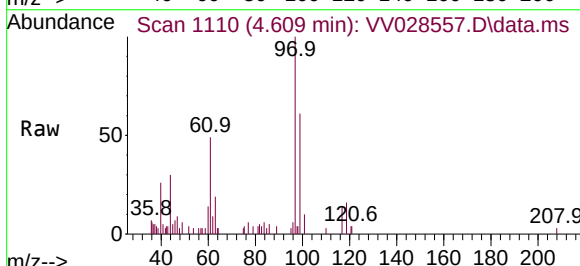
Tgt Ion: 97 Resp: 9971

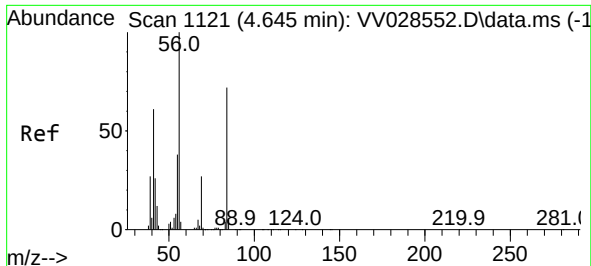
Ion Ratio Lower Upper

97 100

99 62.9 52.6 78.8

61 54.2 42.1 63.1





#30

Cyclohexane

Concen: 0.322 ug/L

RT: 4.670 min Scan# 1121

Delta R.T. 0.026 min

Lab File: VV028557.D

Acq: 14 Oct 2022 18:49

Instrument :

MSVOA_V

ClientSampleId :

BFZ07

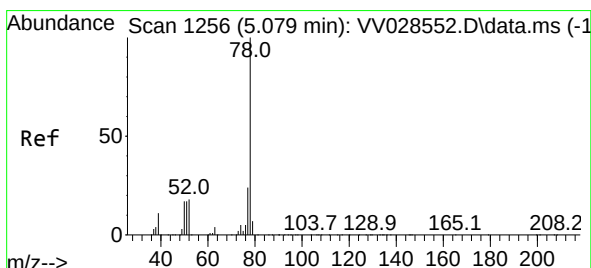
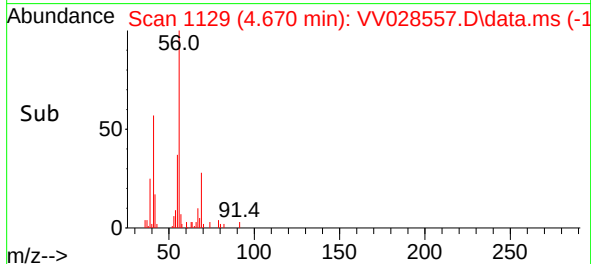
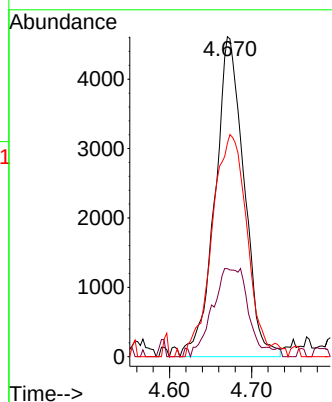
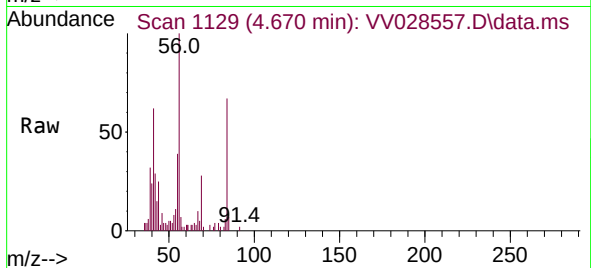
Tgt Ion: 56 Resp: 11323

Ion Ratio Lower Upper

56 100

69 34.3 22.4 33.6#

84 82.6 60.1 90.1



#33

Benzene

Concen: 0.400 ug/L

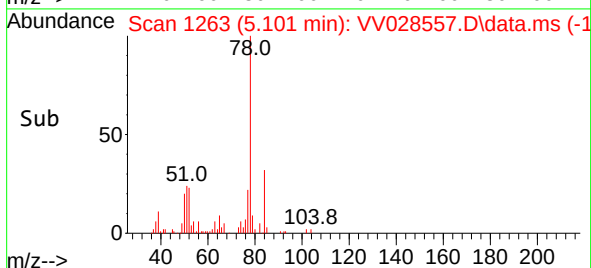
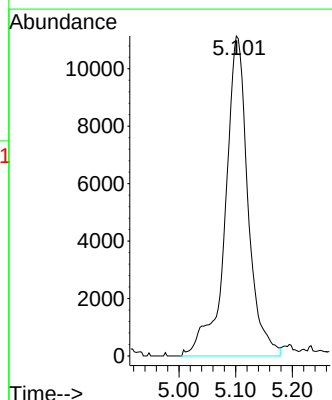
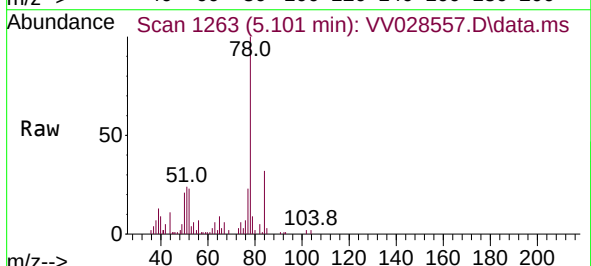
RT: 5.101 min Scan# 1263

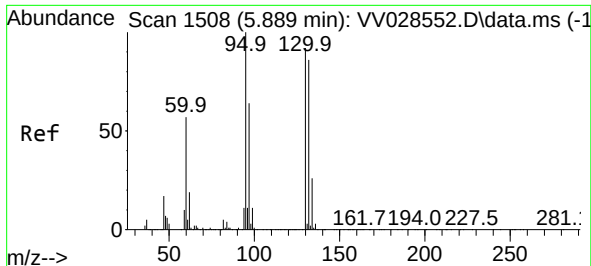
Delta R.T. 0.023 min

Lab File: VV028557.D

Acq: 14 Oct 2022 18:49

Tgt Ion: 78 Resp: 31116

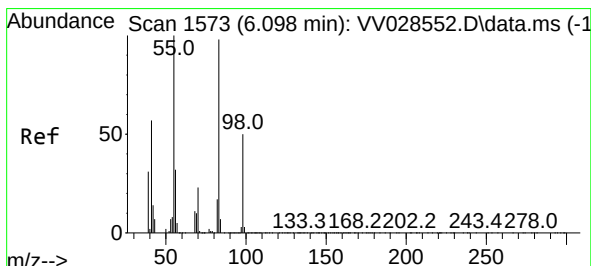
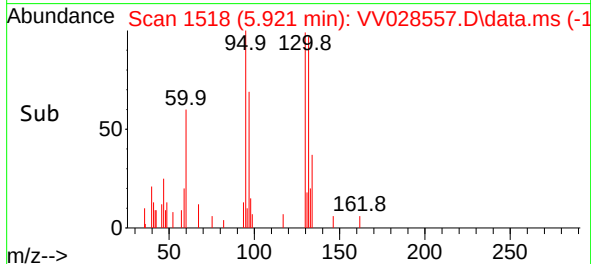
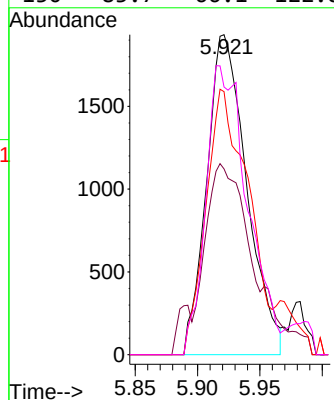
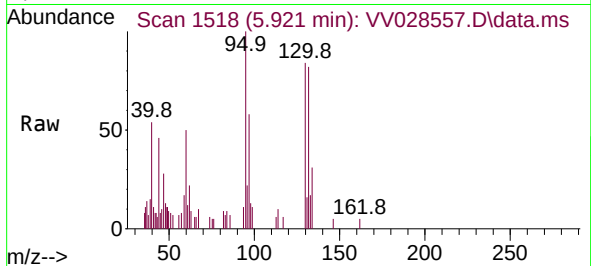




#34
Trichloroethene
Concen: 0.232 ug/L
RT: 5.921 min Scan# 11
Delta R.T. 0.032 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

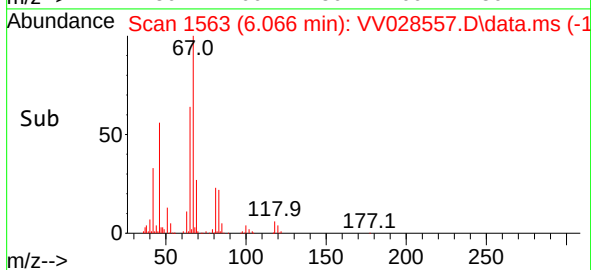
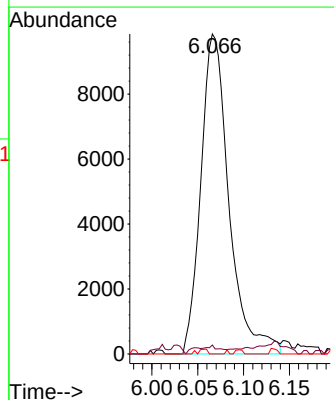
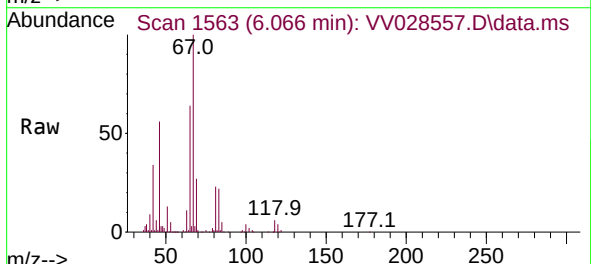
Instrument :
MSVOA_V
ClientSampleId :
BFZ07

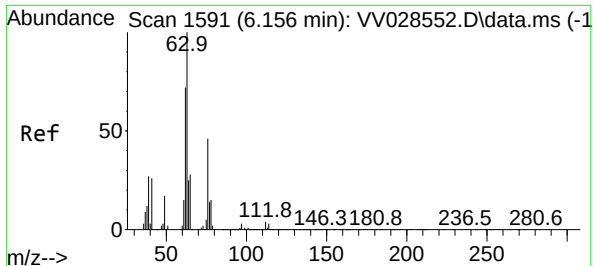
Tgt Ion:	95	Resp:	4314
Ion	Ratio	Lower	Upper
95	100		
97	58.0	46.2	85.8
132	82.2	65.1	120.9
130	83.7	66.1	122.8



#35
Methylcyclohexane
Concen: 0.679 ug/L
RT: 6.066 min Scan# 1563
Delta R.T. -0.032 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

Tgt Ion:	83	Resp:	21022
Ion	Ratio	Lower	Upper
83	100		
55	1.3	65.0	97.6#
98	0.5	36.4	54.6#





#37

1,2-Dichloropropane

Concen: 0.547 ug/L

RT: 6.069 min Scan# 11

Delta R.T. -0.087 min

Lab File: VV028557.D

Acq: 14 Oct 2022 18:49

Instrument :

MSVOA_V

ClientSampleId :

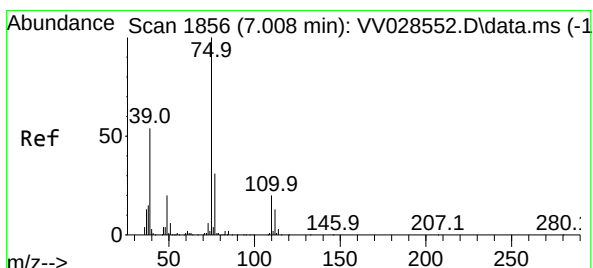
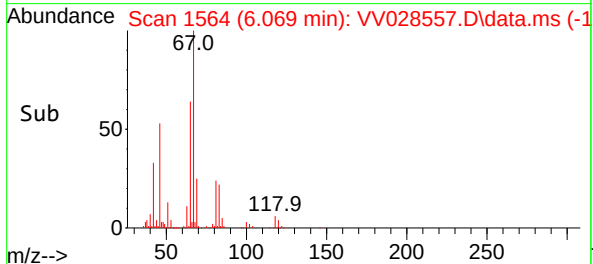
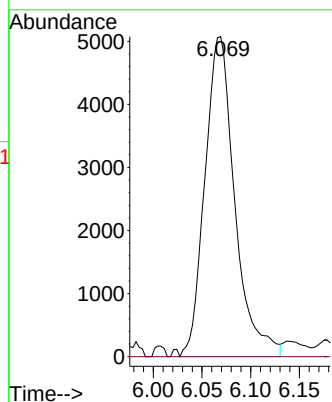
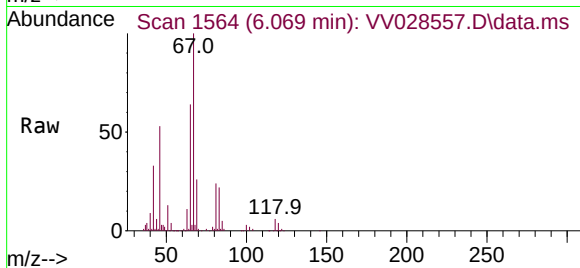
BFZ07

Tgt Ion: 63 Resp: 10839

Ion Ratio Lower Upper

63 100

112 0.2 3.4 5.2#



#39

cis-1,3-Dichloropropene

Concen: 0.088 ug/L

RT: 6.985 min Scan# 1849

Delta R.T. -0.022 min

Lab File: VV028557.D

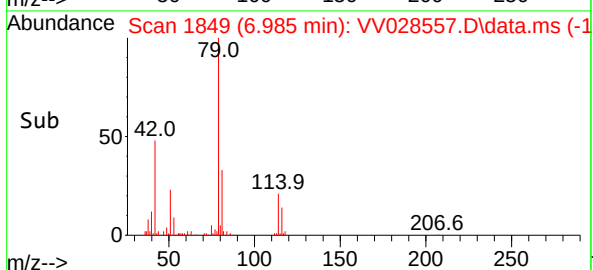
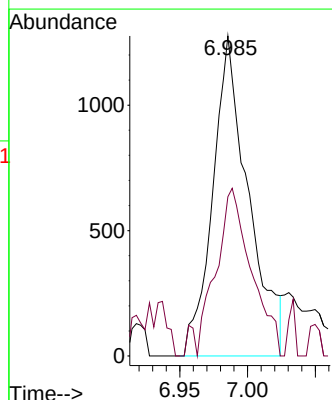
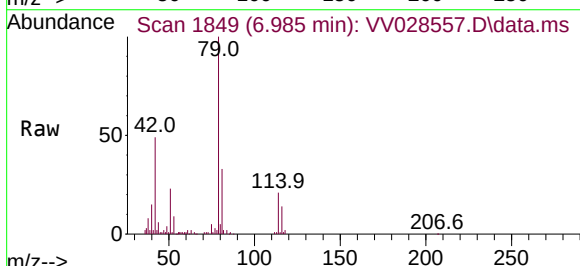
Acq: 14 Oct 2022 18:49

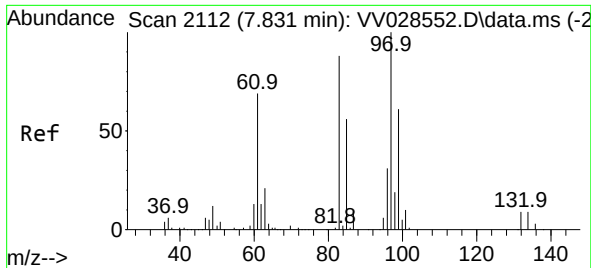
Tgt Ion: 75 Resp: 2332

Ion Ratio Lower Upper

75 100

77 49.8 22.1 41.1#

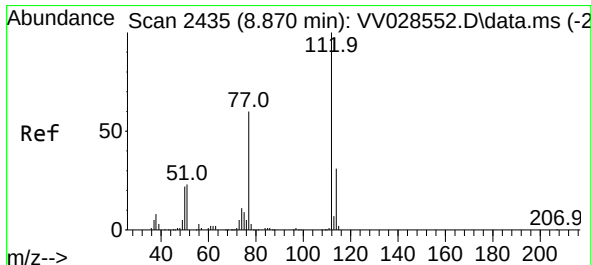
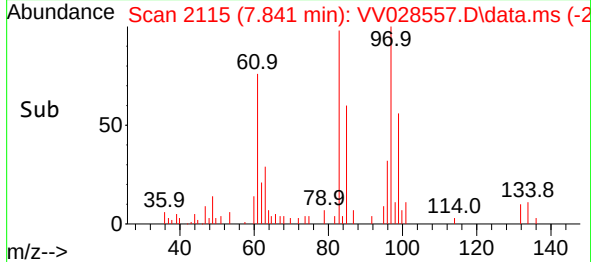
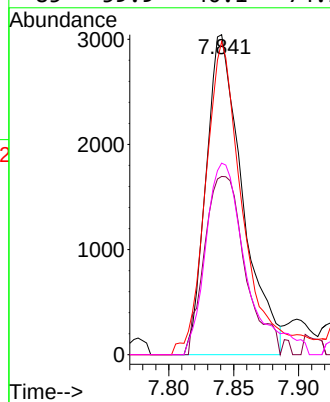
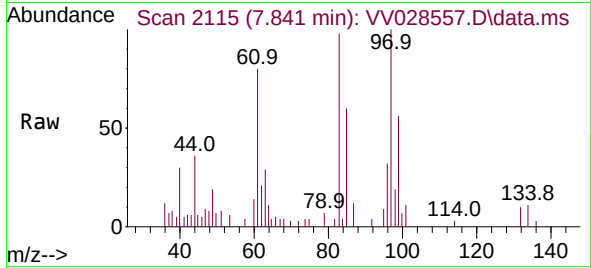




#45
1,1,2-Trichloroethane
Concen: 0.540 ug/L
RT: 7.841 min Scan# 2112
Delta R.T. 0.010 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

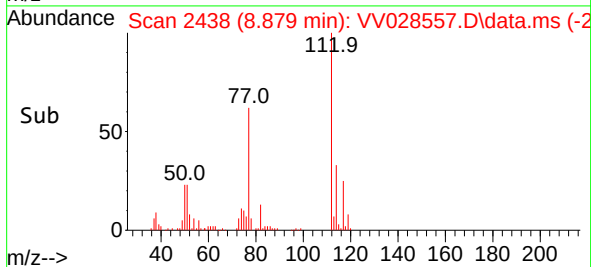
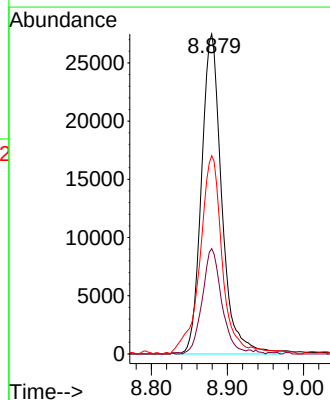
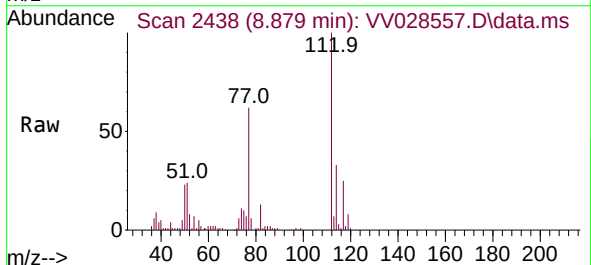
Instrument :
MSVOA_V
ClientSampleId :
BFZ07

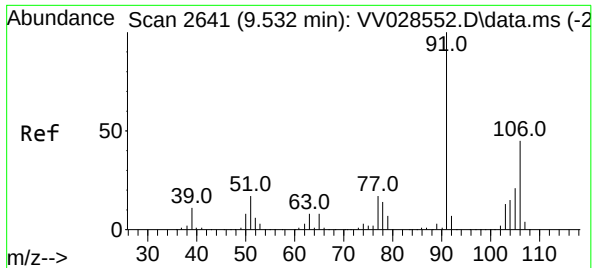
Tgt Ion: 97	Resp:	5950	
Ion	Ratio	Lower	Upper
97	100		
99	55.7	44.4	82.4
83	97.8	63.1	117.1
85	59.9	40.1	74.5



#51
Chlorobenzene
Concen: 1.126 ug/L
RT: 8.879 min Scan# 2438
Delta R.T. 0.010 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

Tgt Ion:112	Resp:	50950	
Ion	Ratio	Lower	Upper
112	100		
114	32.9	22.4	41.6
77	61.9	50.2	75.2

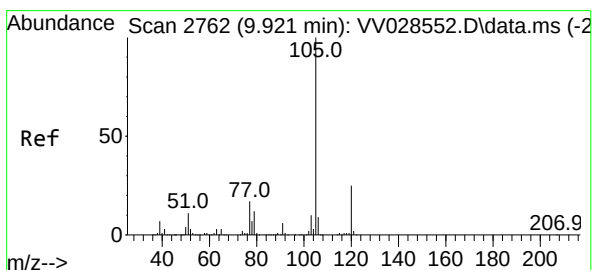
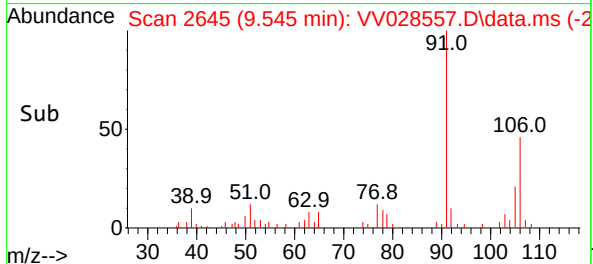
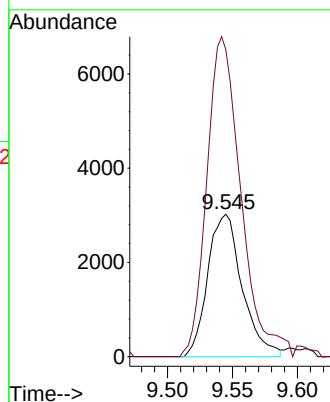
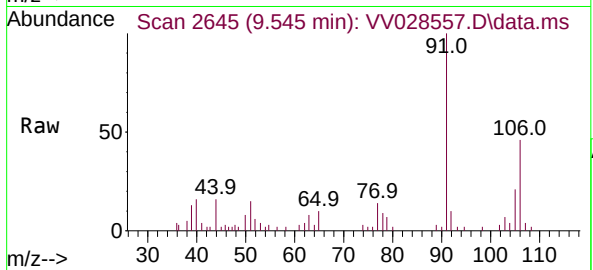




#54
o-Xylene
Concen: 0.189 ug/L
RT: 9.545 min Scan# 2015
Delta R.T. 0.013 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

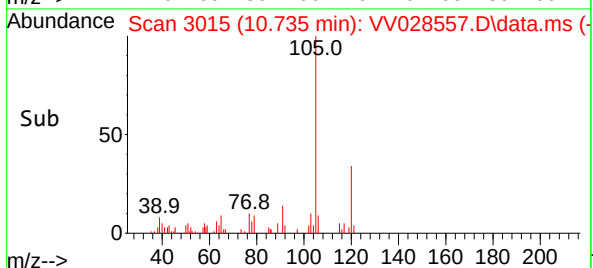
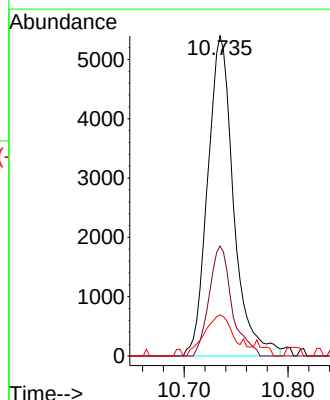
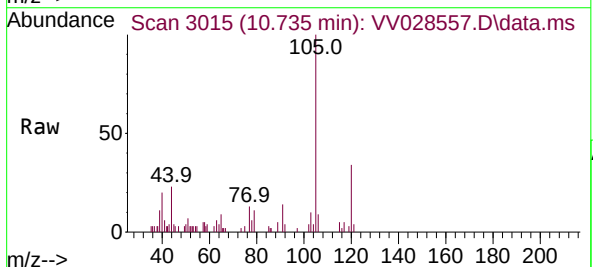
Instrument :
MSVOA_V
ClientSampleId :
BFZ07

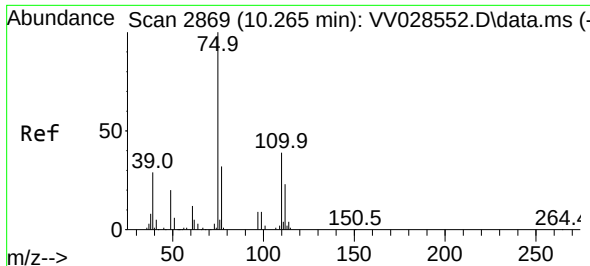
Tgt Ion:106 Resp: 5569
Ion Ratio Lower Upper
106 100
91 215.6 151.4 281.2



#60
Isopropylbenzene
Concen: 0.128 ug/L
RT: 10.735 min Scan# 3015
Delta R.T. 0.814 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

Tgt Ion:105 Resp: 9347
Ion Ratio Lower Upper
105 100
120 30.1 20.7 31.1
77 14.6 13.1 19.7

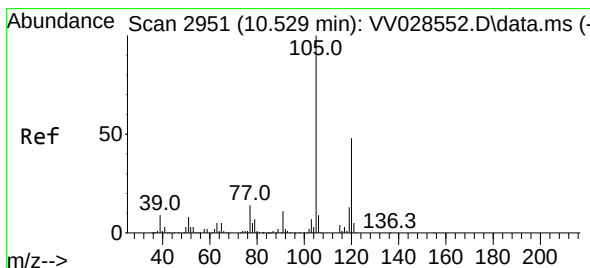
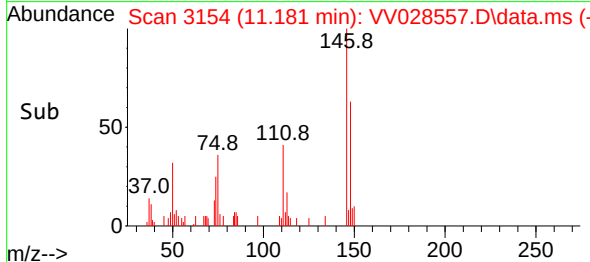
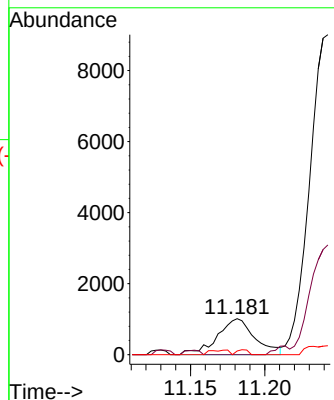
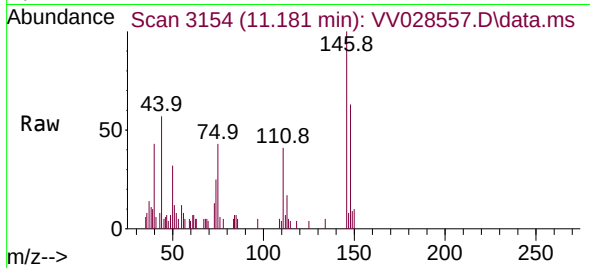




#61
1,2,3-Trichloropropane
Concen: 0.199 ug/L
RT: 11.181 min Scan# 3154
Delta R.T. 0.916 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

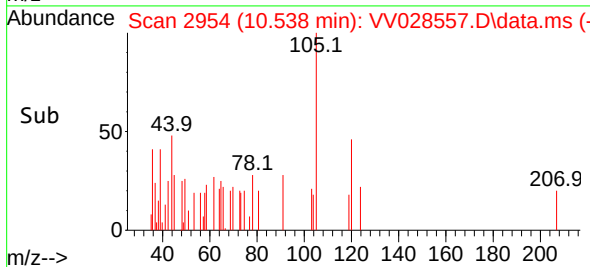
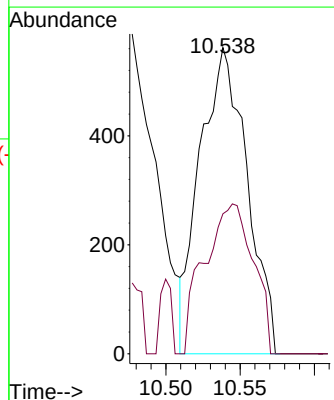
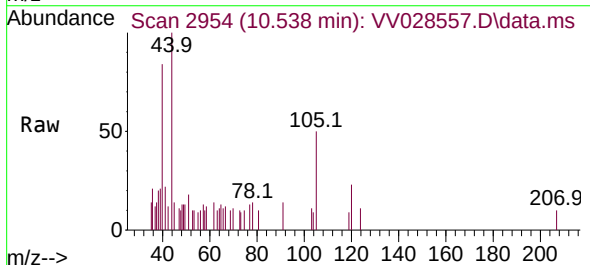
Instrument :
MSVOA_V
ClientSampleId :
BFZ07

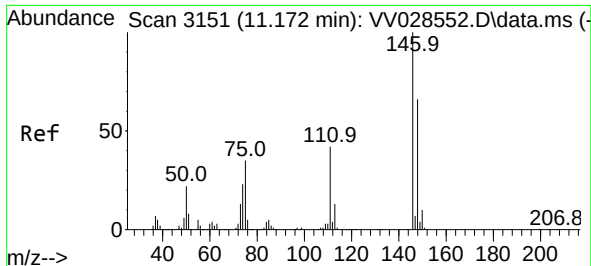
Tgt Ion: 75 Resp: 1783
Ion Ratio Lower Upper
75 100
77 0.0 24.6 37.0#
110 4.1 28.3 42.5#



#62
1,3,5-Trimethylbenzene
Concen: 0.056 ug/L
RT: 10.538 min Scan# 2954
Delta R.T. 0.010 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

Tgt Ion: 105 Resp: 1239
Ion Ratio Lower Upper
105 100
120 51.1 38.0 57.0

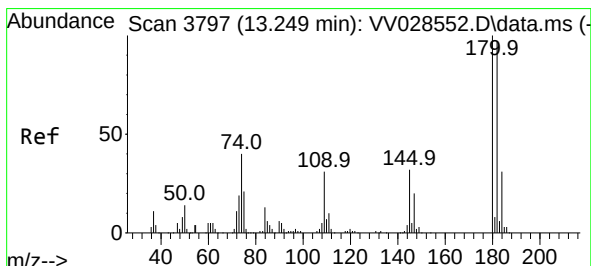
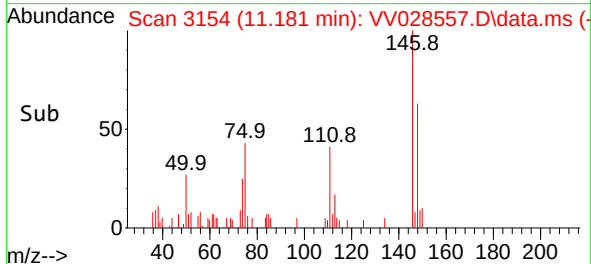
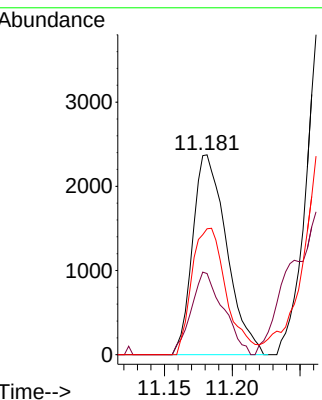
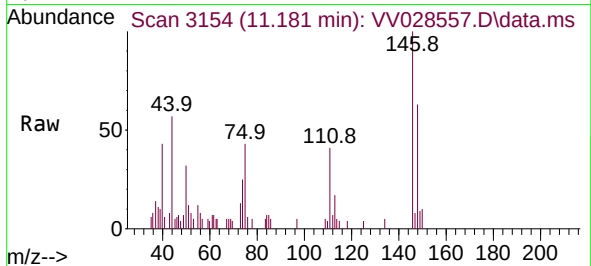




#64
1,3-Dichlorobenzene
Concen: 0.134 ug/L
RT: 11.181 min Scan# 3151
Delta R.T. 0.010 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

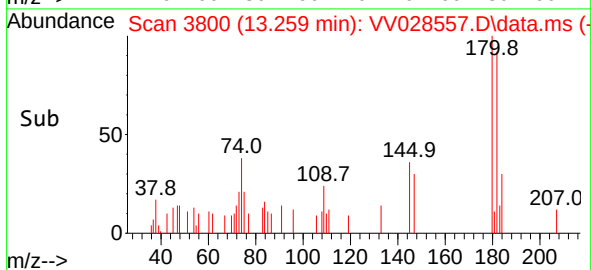
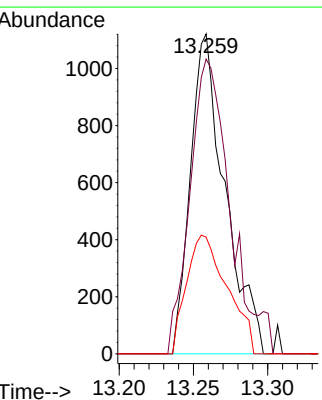
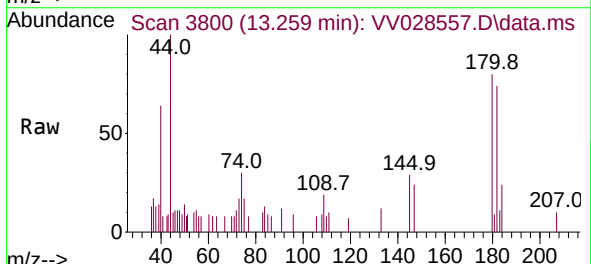
Instrument :
MSVOA_V
ClientSampleId :
BFZ07

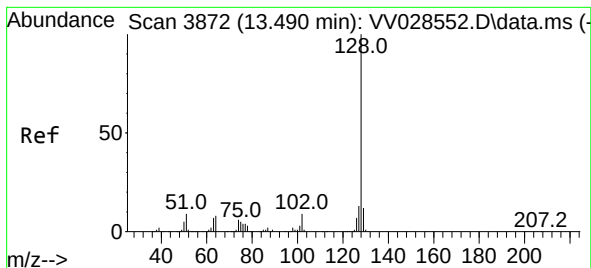
Tgt Ion:	146	Resp:	4133
Ion Ratio	Lower	Upper	
146	100		
111	40.6	28.5	52.9
148	63.0	45.1	83.9



#70
1,2,4-trichlorobenzene
Concen: 0.105 ug/L
RT: 13.259 min Scan# 3800
Delta R.T. 0.010 min
Lab File: VV028557.D
Acq: 14 Oct 2022 18:49

Tgt Ion:	180	Resp:	1817
Ion Ratio	Lower	Upper	
180	100		
182	106.7	74.2	111.2
145	43.6	25.3	37.9#





#71

Naphthalene

Concen: 0.130 ug/L

RT: 13.503 min Scan# 3950

Delta R.T. 0.013 min

Lab File: VV028557.D

Acq: 14 Oct 2022 18:49

Instrument :

MSVOA_V

ClientSampleId :

BFZ07

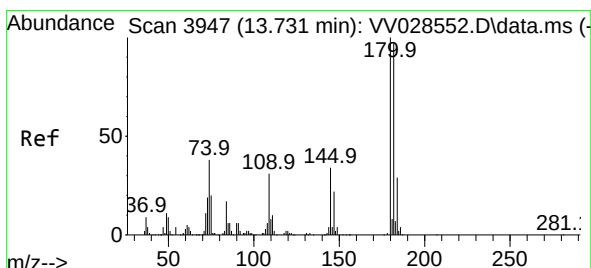
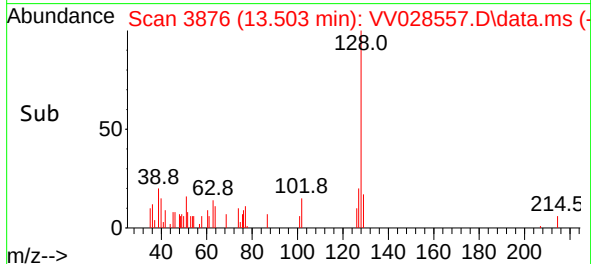
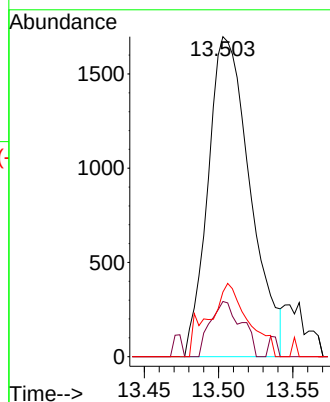
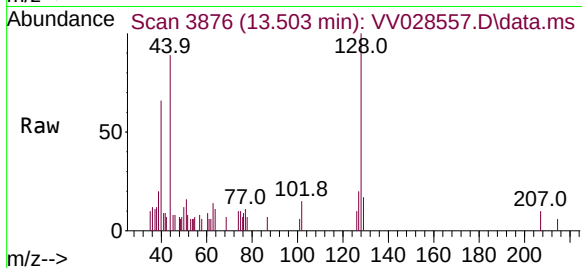
Tgt Ion:128 Resp: 3350

Ion Ratio Lower Upper

128 100

129 12.7 9.0 13.6

127 21.4 10.1 15.1#



#72

1,2,3-Trichlorobenzene

Concen: 0.080 ug/L

RT: 13.741 min Scan# 3950

Delta R.T. 0.010 min

Lab File: VV028557.D

Acq: 14 Oct 2022 18:49

Tgt Ion:180 Resp: 1137

Ion Ratio Lower Upper

180 100

182 68.7 76.3 114.5#

145 25.1 25.8 38.8#

