

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW062824\
 Data File : VW036354.D
 Acq On : 28 Jun 2024 16:55
 Operator : SY/MD
 Sample : P3010-25DL 2X
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL/B
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 01 17:08:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM062724SMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jun 28 23:33:02 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	306548	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	312502	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.181	152	157633	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	118945	22.847	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.400%
7) Chloroethane-d5	1.526	69	96900	23.303	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.200%
11) 1,1-Dichloroethene-d2	2.050	65	56406	23.047	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	92.200%
21) 2-Butanone-d5	4.085	46	192	0.159	ug/L	0.23
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.320%#
24) Chloroform-d	4.243	84	229325	25.344	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	101.360%
26) 1,2-Dichloroethane-d4	4.937	65	118582	24.574	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	98.280%
32) Benzene-d6	4.953	84	398173	22.571	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	90.280%
36) 1,2-Dichloropropane-d6	5.986	67	128849	24.283	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.120%
41) Toluene-d8	7.240	98	386134	24.277	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.120%
43) trans-1,3-Dichloroprop...	7.551	79	53017	22.375	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	89.480%
47) 2-Hexanone-d5	8.030	63	33925	40.053	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	80.100%
56) 1,1,2,2-Tetrachloroeth...	10.149	84	99844	22.955	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	91.800%
66) 1,2-Dichlorobenzene-d4	11.558	152	131389	22.873	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	91.480%
Target Compounds						
					Qvalue	
10) 1,1,2-Trichloro-1,2,2-...	2.050	101	2171	0.398	ug/L #	29
12) 1,1-Dichloroethene	2.060	96	112206	23.238	ug/L	96
13) Acetone	2.146	43	54711	33.515	ug/L #	86
16) Methylene chloride	2.439	84	275472	45.645	ug/L	97
17) trans-1,2-Dichloroethene	2.687	96	72699	15.164	ug/L	100
18) Methyl tert-butyl Ether	2.703	73	229300	20.547	ug/L	99
19) 1,1-Dichloroethane	3.105	63	393348	46.146	ug/L	99
22) 2-Butanone	3.899	43	150882	109.617	ug/L	96
25) Chloroform	4.269	83	435269	47.875	ug/L	99
27) 1,2-Dichloroethane	5.008	62	4431	0.753	ug/L #	73
31) Carbon tetrachloride	4.728	117	57410	8.316	ug/L	99
33) Benzene	5.002	78	623994	33.712	ug/L	100
34) Trichloroethene	5.828	95	267748	45.841	ug/L	98
37) 1,2-Dichloropropane	6.088	63	90660	19.179	ug/L	98
39) cis-1,3-Dichloropropene	6.950	75	224806	30.927	ug/L	99
40) 4-Methyl-2-pentanone	7.159	43	203892	76.479	ug/L	98
44) trans-1,3-Dichloropropene	7.577	75	234206	35.823	ug/L	98
45) 1,1,2-Trichloroethane	7.767	97	110152	26.363	ug/L	98
48) 2-Hexanone	8.030	43	4328	2.064	ug/L #	72

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 Quant Title : VOC Analysis
 QLast Update : Fri Jun 28 23:33:02 2024
 Response via : Initial Calibration

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

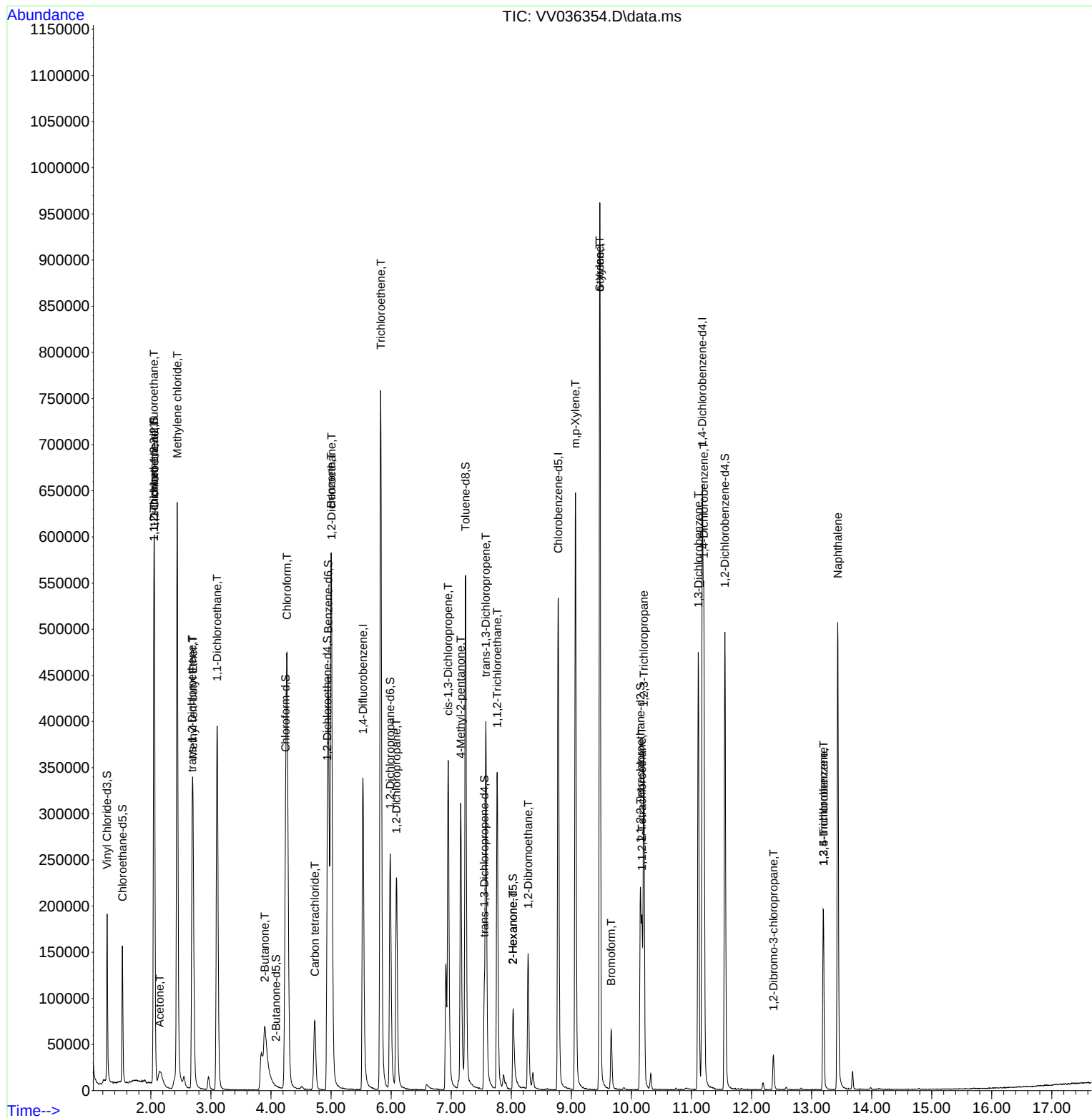
50) 1,2-Dibromoethane	8.281	107	99283	24.120	ug/L	99
53) m,p-Xylene	9.069	106	178911	22.984	ug/L	97
54) o-Xylene	9.474	106	245503	33.538	ug/L	97
55) Styrene	9.474	104	17283	1.347	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.175	83	89939	24.051	ug/L	99
59) Bromoform	9.664	173	30226	10.130	ug/L	97
61) 1,2,3-Trichloropropane	10.207	75	150472	42.299	ug/L	99
64) 1,3-Dichlorobenzene	11.114	146	193702	19.509	ug/L	99
65) 1,4-Dichlorobenzene	11.207	146	212671	19.982	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.365	75	10396	13.026	ug/L	87
69) 1,3,5-Trichlorobenzene	13.197	180	62073	8.302	ug/L	99
70) 1,2,4-trichlorobenzene	13.197	180	62073	10.411	ug/L	99
71) Naphthalene	13.435	128	400497	37.675	ug/L	99

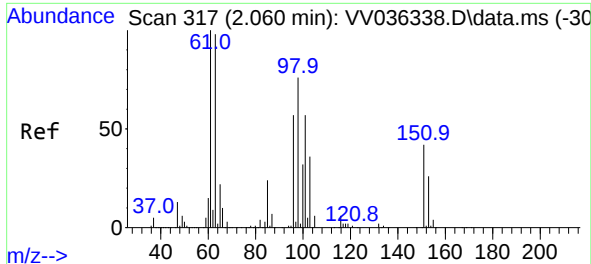
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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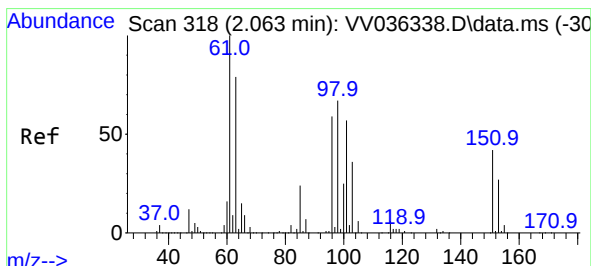
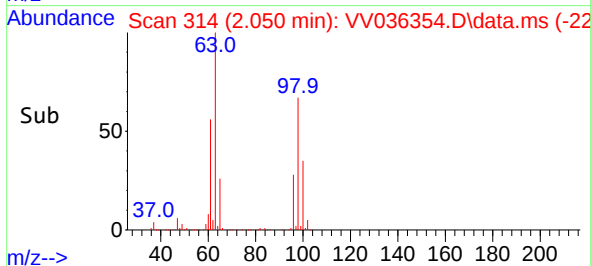
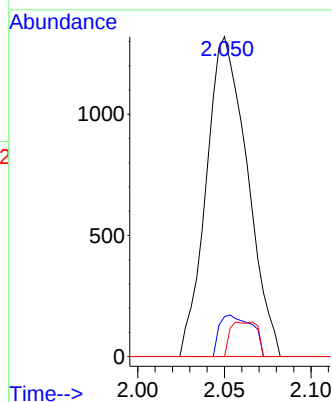
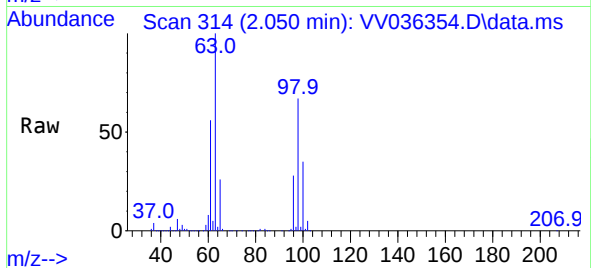




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.398 ug/L
RT: 2.050 min Scan# 314
Delta R.T. -0.010 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

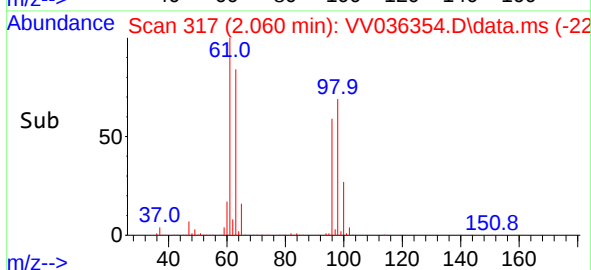
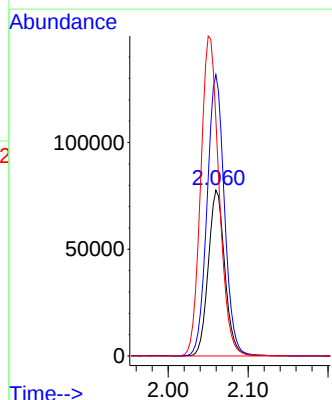
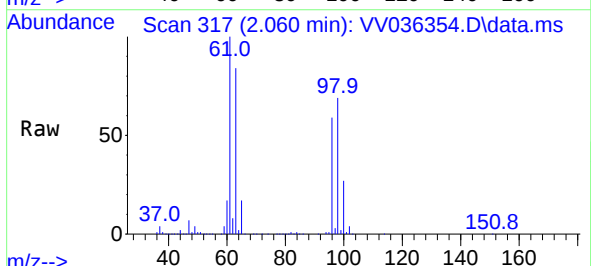
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MSVOA_V
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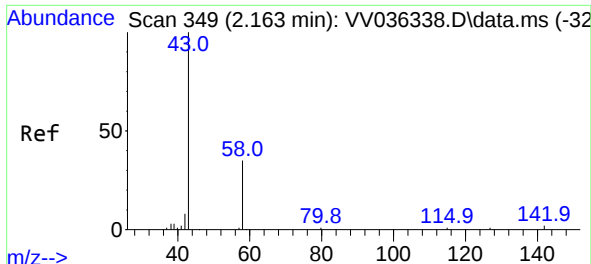
Tgt Ion:101 Resp: 2171
Ion Ratio Lower Upper
101 100
85 10.3 34.6 51.8#
151 3.5 58.9 88.3#



#12
1,1-Dichloroethene
Concen: 23.238 ug/L
RT: 2.060 min Scan# 317
Delta R.T. -0.003 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

Tgt Ion: 96 Resp: 112206
Ion Ratio Lower Upper
96 100
61 169.7 122.6 227.8
63 142.7 96.1 178.5





#13

Acetone

Concen: 33.515 ug/L

RT: 2.146 min Scan# 34

Delta R.T. -0.016 min

Lab File: VV036354.D

Acq: 28 Jun 2024 16:55

Instrument :

MSVOA_V

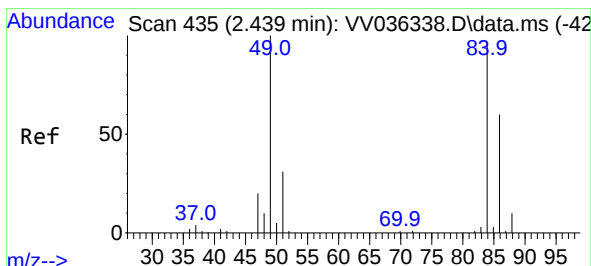
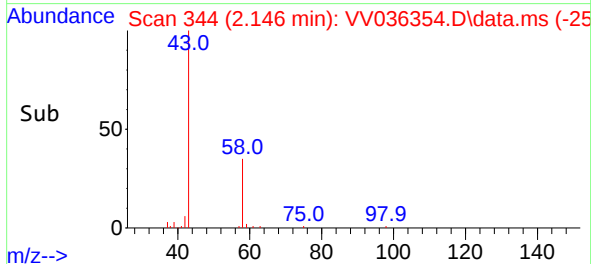
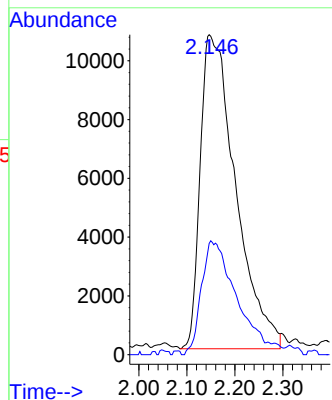
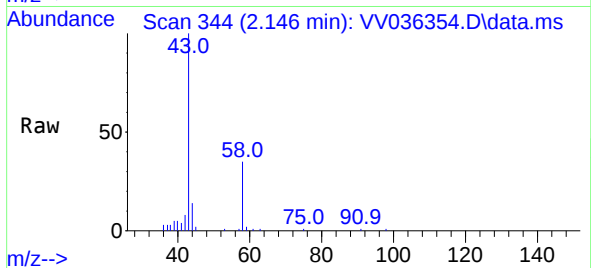
ClientSampleId :

Tgt Ion: 43 Resp: 54711

Ion Ratio Lower Upper

43 100

58 13.1 0.0 0.6#



#16

Methylene chloride

Concen: 45.645 ug/L

RT: 2.439 min Scan# 435

Delta R.T. -0.000 min

Lab File: VV036354.D

Acq: 28 Jun 2024 16:55

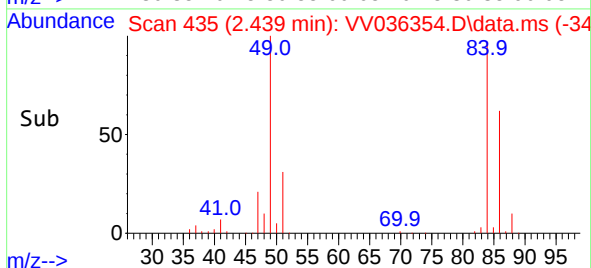
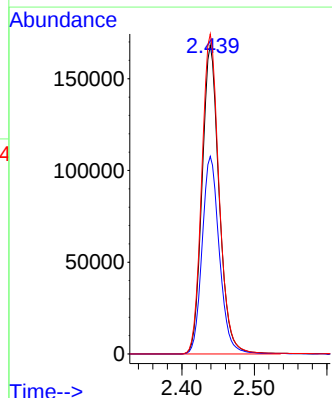
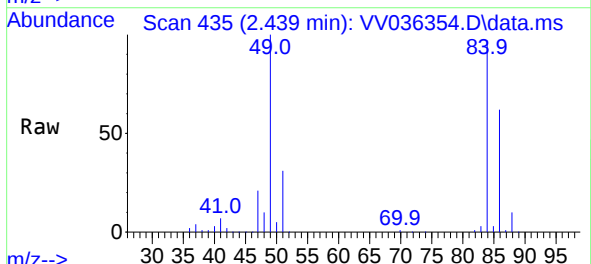
Tgt Ion: 84 Resp: 275472

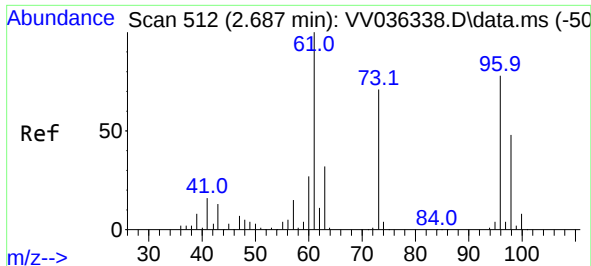
Ion Ratio Lower Upper

84 100

86 63.9 45.6 84.8

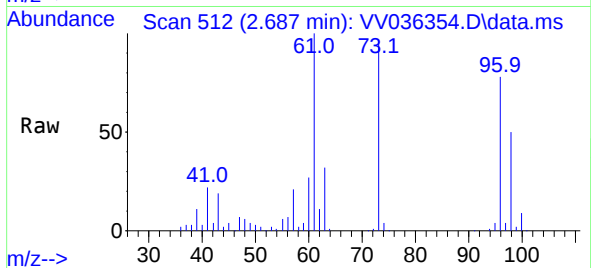
49 103.6 75.7 140.5





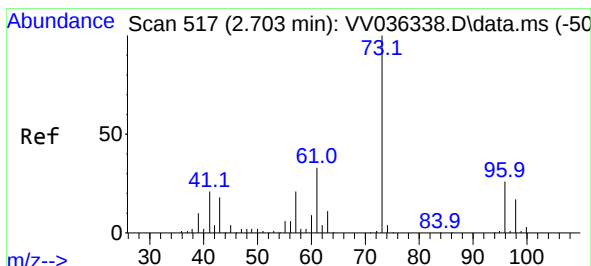
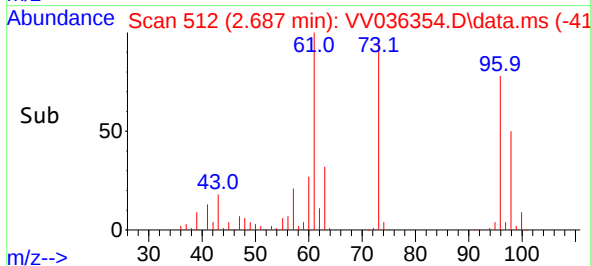
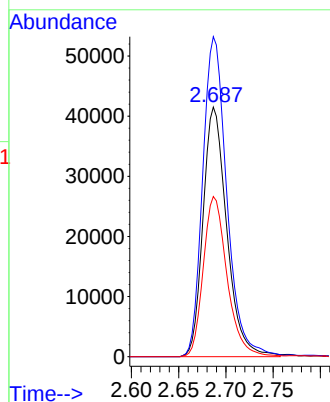
#17
trans-1,2-Dichloroethene
Concen: 15.164 ug/L
RT: 2.687 min Scan# 512
Delta R.T. -0.000 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 96 Resp: 72699

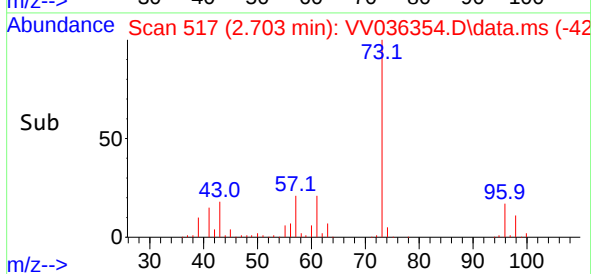
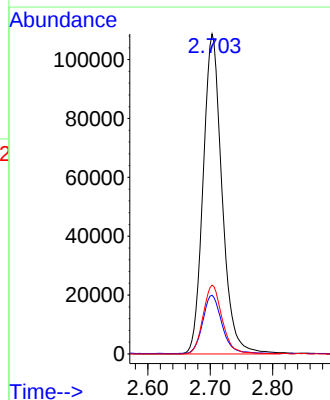
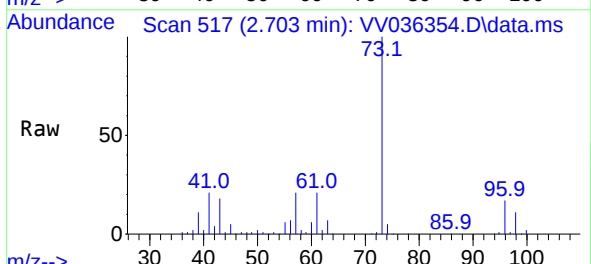
Ion	Ratio	Lower	Upper
96	100		
61	128.2	89.8	166.8
98	64.2	45.3	84.1

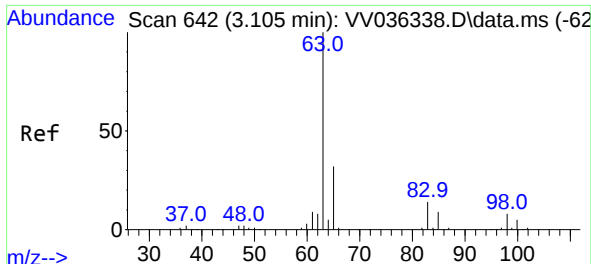


#18
Methyl tert-butyl Ether
Concen: 20.547 ug/L
RT: 2.703 min Scan# 517
Delta R.T. -0.000 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

Tgt Ion: 73 Resp: 229300

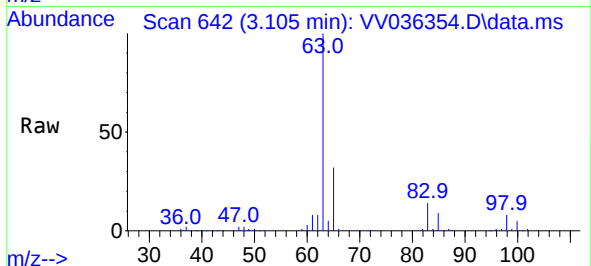
Ion	Ratio	Lower	Upper
73	100		
43	18.4	14.7	22.1
57	21.8	17.0	25.6



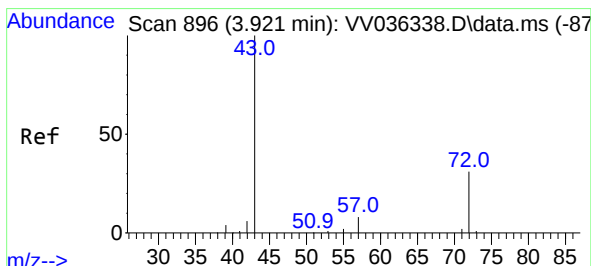
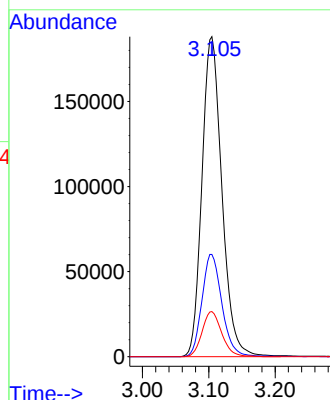
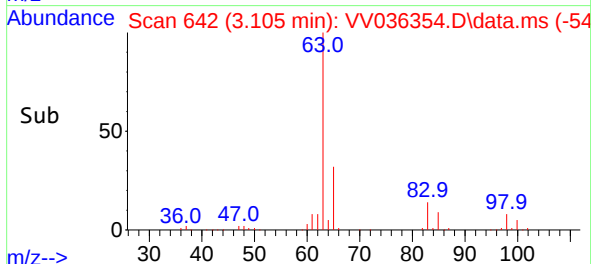


#19
1,1-Dichloroethane
Concen: 46.146 ug/L
RT: 3.105 min Scan# 64
Delta R.T. -0.000 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

Instrument :
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ClientSampleId :

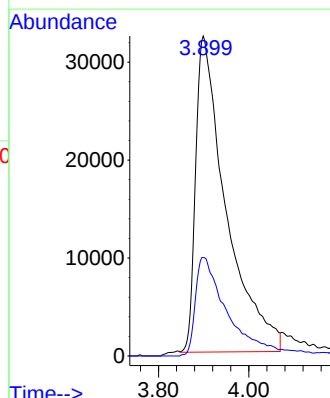
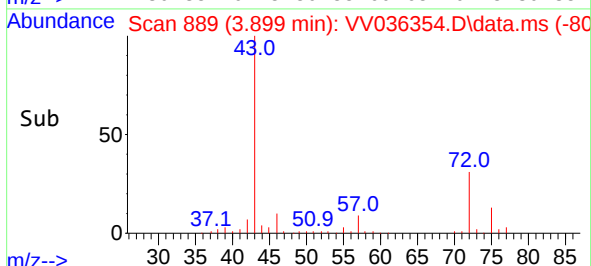
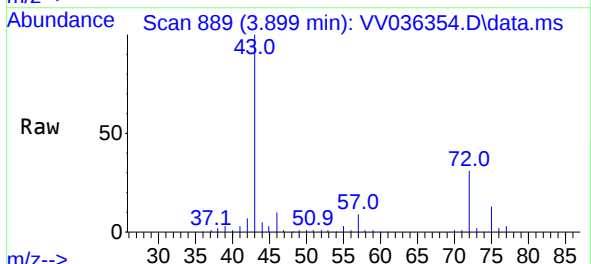


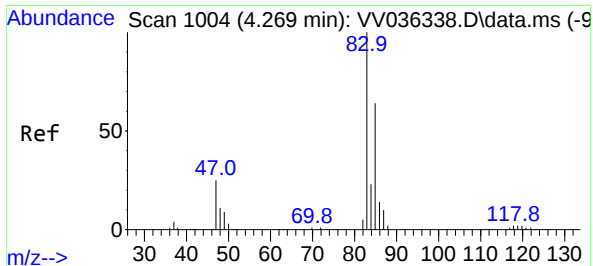
Tgt Ion: 63 Resp: 393348
Ion Ratio Lower Upper
63 100
65 31.9 22.1 41.1
83 14.1 9.7 17.9



#22
2-Butanone
Concen: 109.617 ug/L
RT: 3.899 min Scan# 889
Delta R.T. -0.023 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

Tgt Ion: 43 Resp: 150882
Ion Ratio Lower Upper
43 100
72 28.1 12.9 38.7

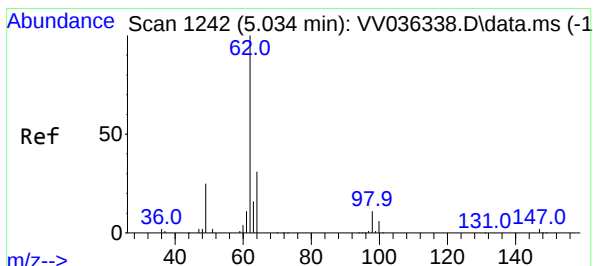
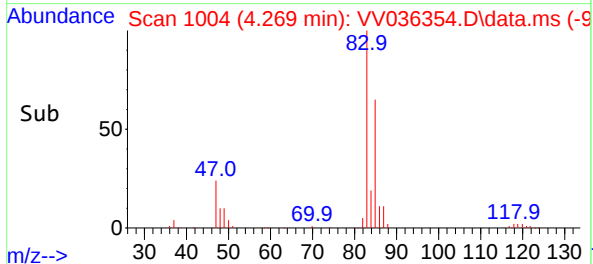
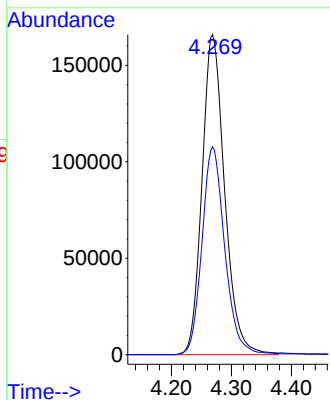
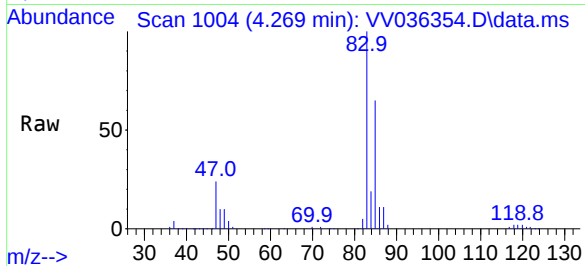




#25
Chloroform
Concen: 47.875 ug/L
RT: 4.269 min Scan# 1004
Delta R.T. -0.000 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

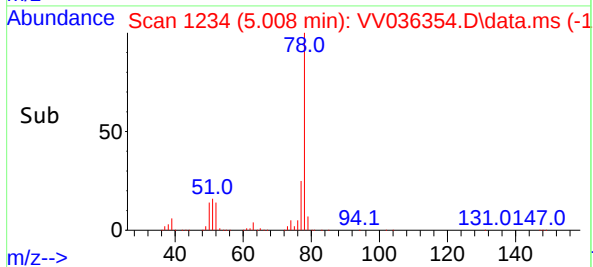
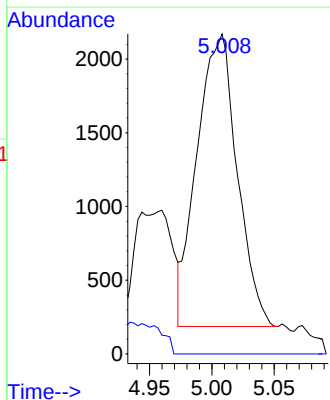
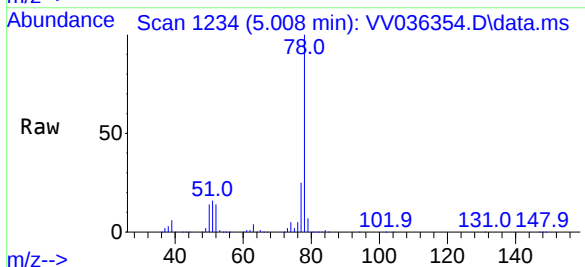
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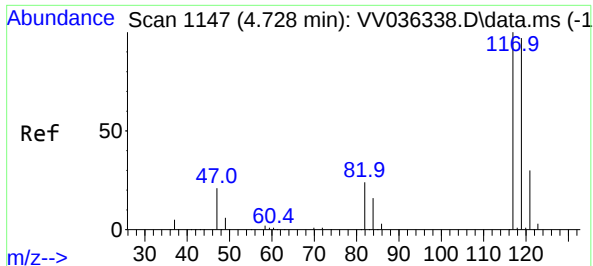
Tgt Ion: 83 Resp: 435269
Ion Ratio Lower Upper
83 100
85 65.0 45.0 83.6



#27
1,2-Dichloroethane
Concen: 0.753 ug/L
RT: 5.008 min Scan# 1234
Delta R.T. -0.026 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

Tgt Ion: 62 Resp: 4431
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.8#

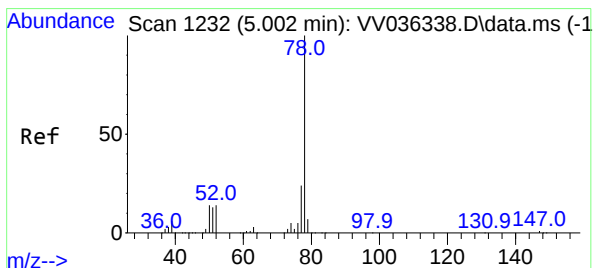
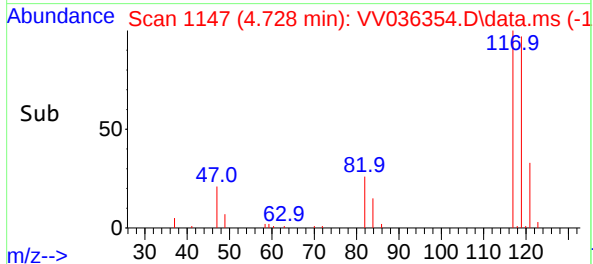
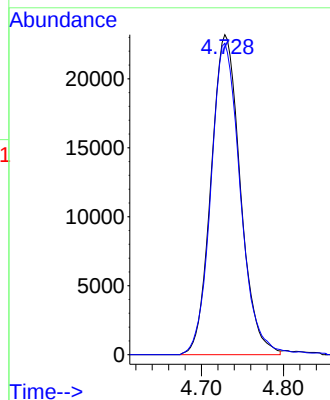
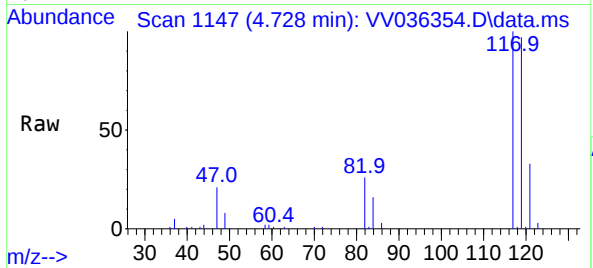




#31
Carbon tetrachloride
Concen: 8.316 ug/L
RT: 4.728 min Scan# 1147
Delta R.T. -0.000 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

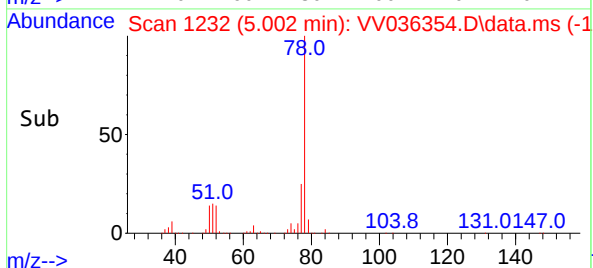
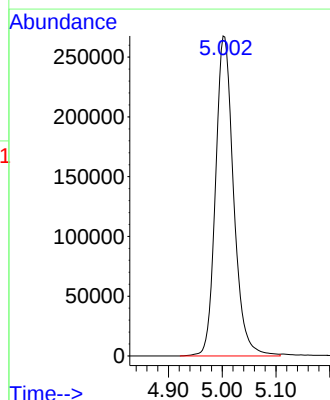
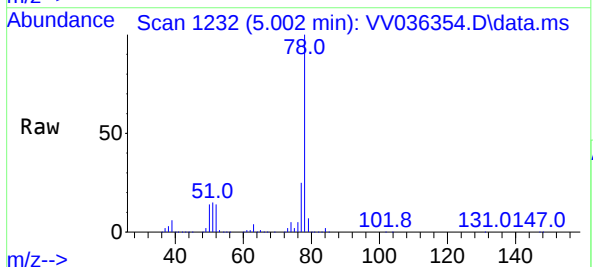
Instrument :
MSVOA_V
ClientSampleId :

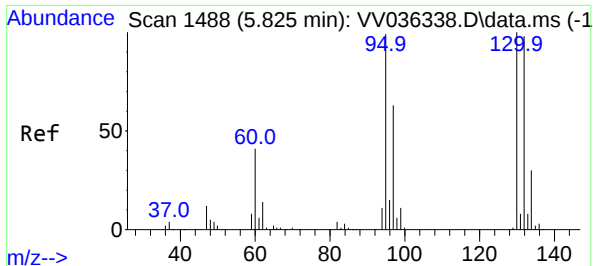
Tgt Ion:117 Resp: 57410
Ion Ratio Lower Upper
117 100
119 98.0 77.2 115.8



#33
Benzene
Concen: 33.712 ug/L
RT: 5.002 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

Tgt Ion: 78 Resp: 623994

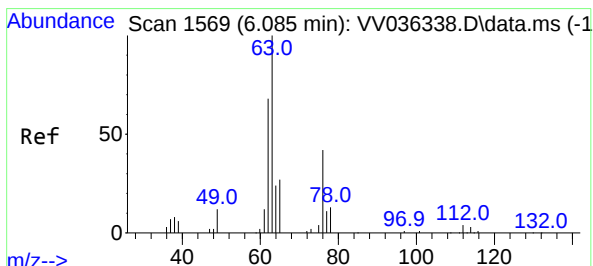
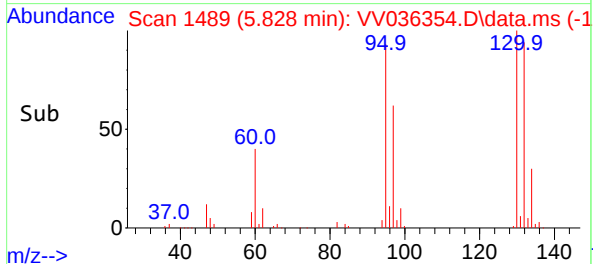
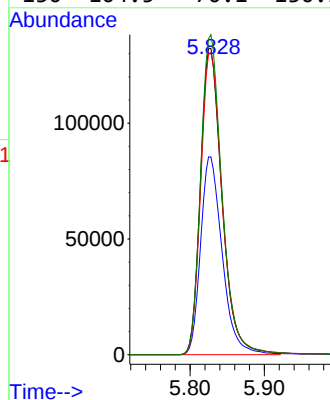
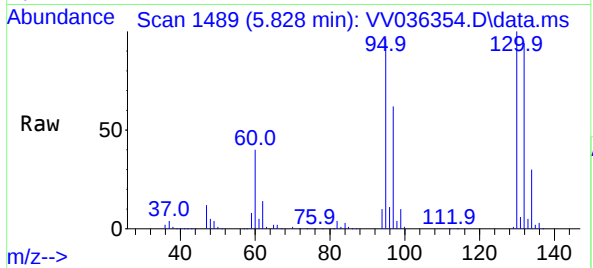




#34
Trichloroethene
Concen: 45.841 ug/L
RT: 5.828 min Scan# 1488
Delta R.T. 0.003 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

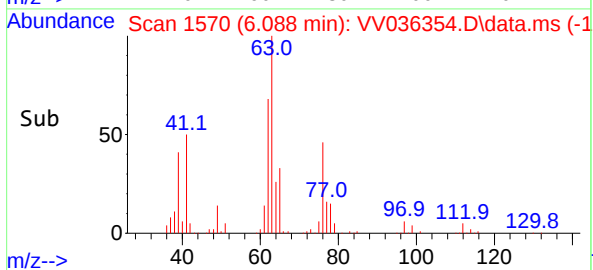
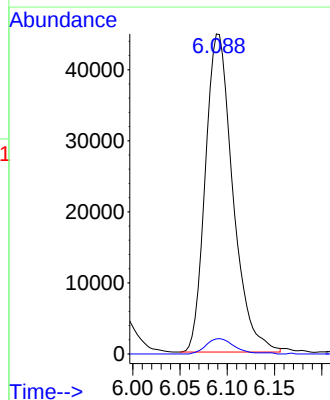
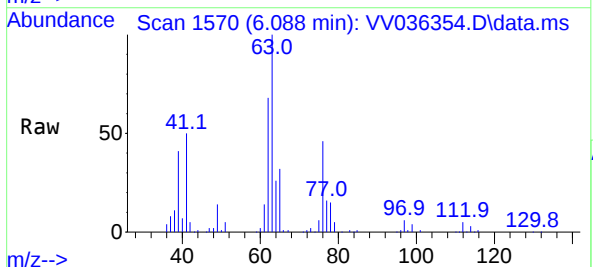
Instrument :
MSVOA_V
ClientSampleId :

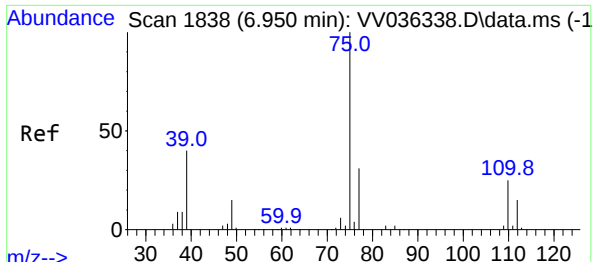
Tgt Ion: 95 Resp: 267748
Ion Ratio Lower Upper
95 100
97 64.6 45.1 83.7
132 98.7 67.7 125.7
130 104.5 70.1 130.1



#37
1,2-Dichloropropane
Concen: 19.179 ug/L
RT: 6.088 min Scan# 1570
Delta R.T. 0.003 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

Tgt Ion: 63 Resp: 90660
Ion Ratio Lower Upper
63 100
112 4.9 3.4 5.2

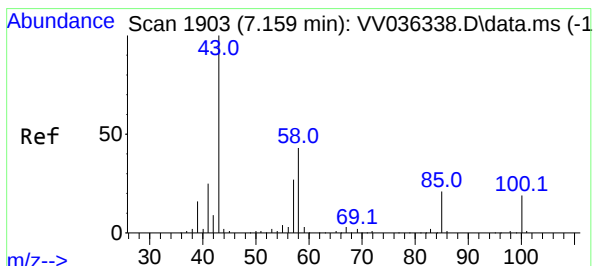
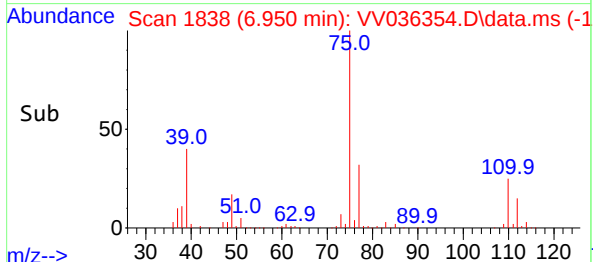
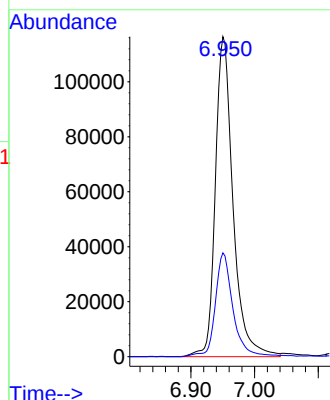
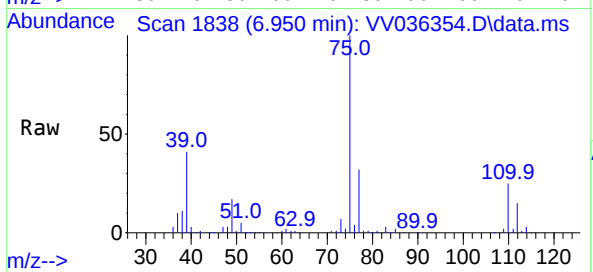




#39
cis-1,3-Dichloropropene
Concen: 30.927 ug/L
RT: 6.950 min Scan# 1838
Delta R.T. -0.000 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

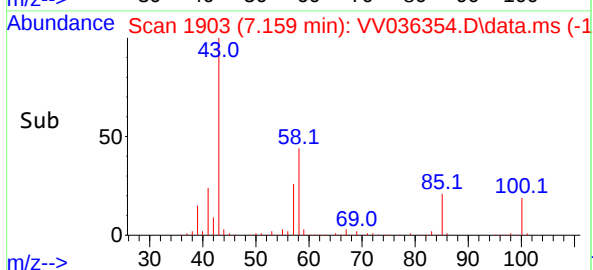
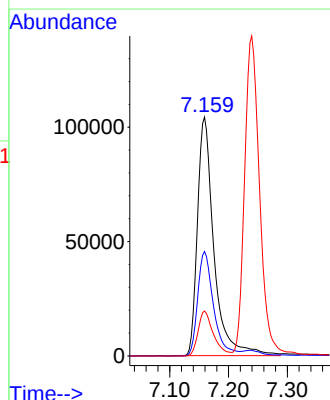
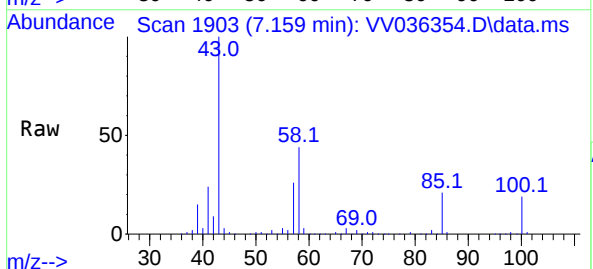
Instrument :
MSVOA_V
ClientSampleId :

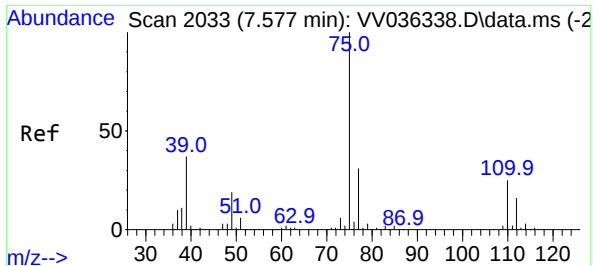
Tgt Ion: 75 Resp: 224806
Ion Ratio Lower Upper
75 100
77 32.4 22.3 41.5



#40
4-Methyl-2-pentanone
Concen: 76.479 ug/L
RT: 7.159 min Scan# 1903
Delta R.T. -0.000 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

Tgt Ion: 43 Resp: 203892
Ion Ratio Lower Upper
43 100
58 42.0 34.8 52.2
100 17.5 14.6 21.8

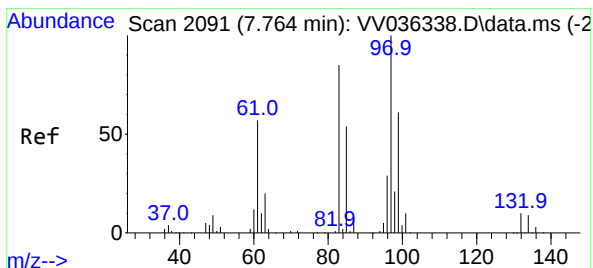
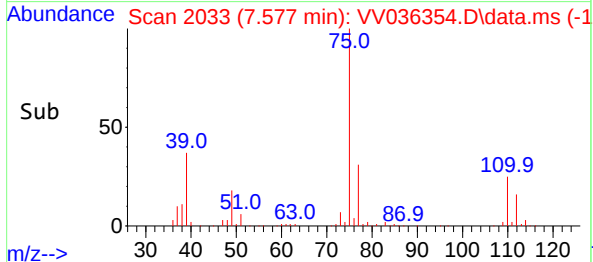
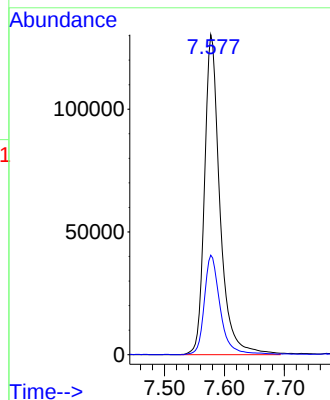
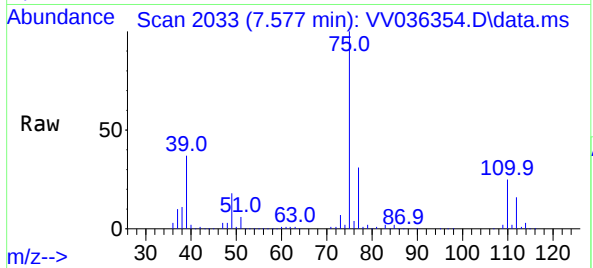




#44
trans-1,3-Dichloropropene
Concen: 35.823 ug/L
RT: 7.577 min Scan# 2033
Delta R.T. -0.000 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

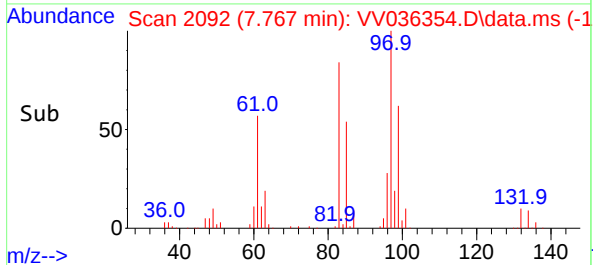
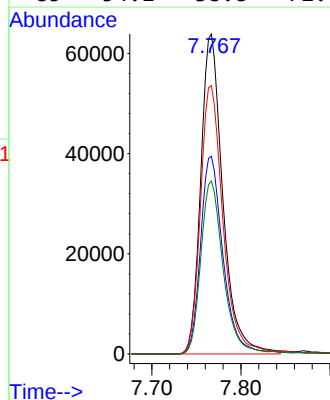
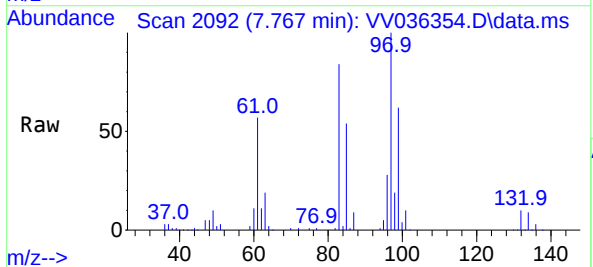
Instrument :
MSVOA_V
ClientSampleId :

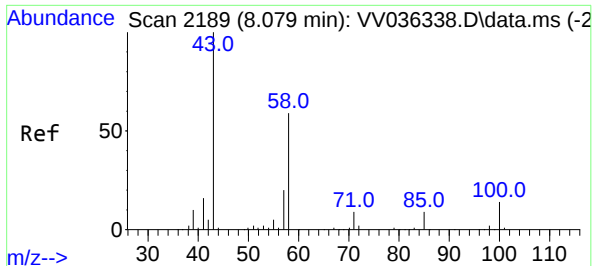
Tgt Ion: 75 Resp: 234206
Ion Ratio Lower Upper
75 100
77 31.1 22.5 41.9



#45
1,1,2-Trichloroethane
Concen: 26.363 ug/L
RT: 7.767 min Scan# 2092
Delta R.T. 0.003 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

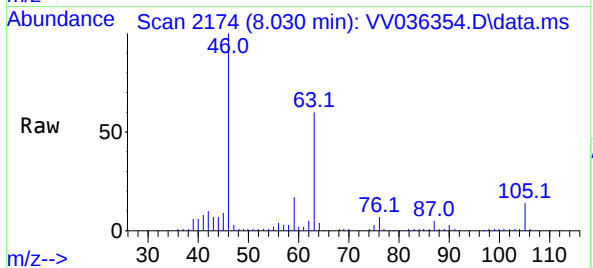
Tgt Ion: 97 Resp: 110152
Ion Ratio Lower Upper
97 100
99 61.8 43.8 81.3
83 83.9 60.6 112.6
85 54.1 38.8 72.0



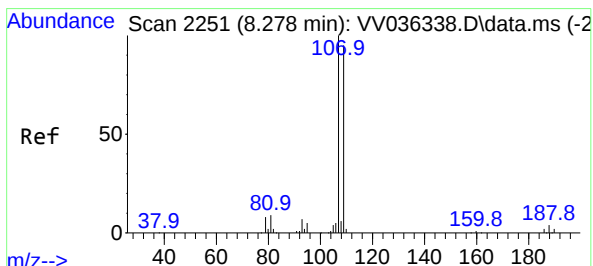
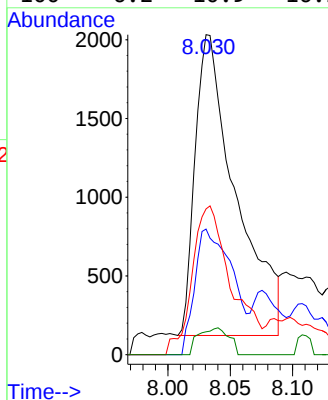
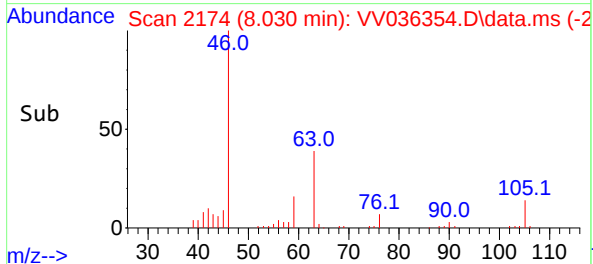


#48
2-Hexanone
Concen: 2.064 ug/L
RT: 8.030 min Scan# 2189
Delta R.T. -0.048 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

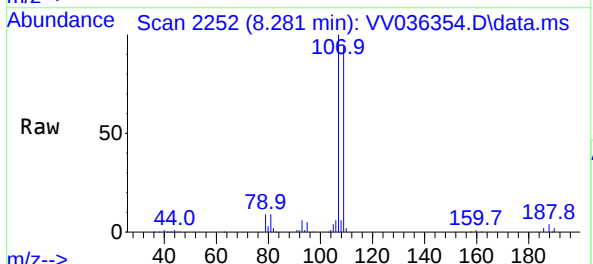
Instrument :
MSVOA_V
ClientSampleId :



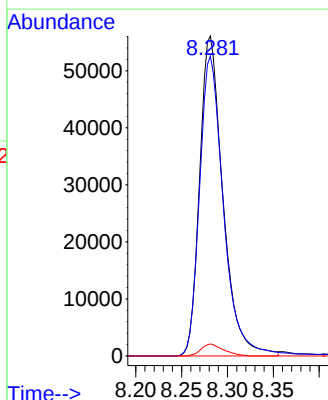
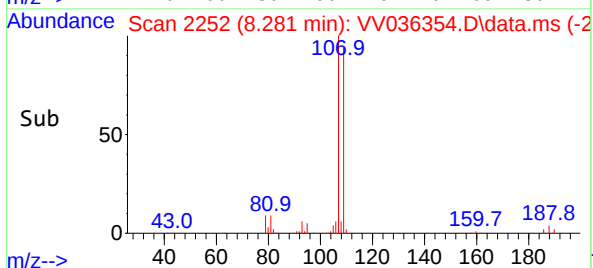
Tgt Ion: 43	Resp: 4328
Ion Ratio	Lower Upper
43 100	
58 38.3	48.5 72.7#
57 34.3	15.8 23.6#
100 6.2	10.9 16.3#

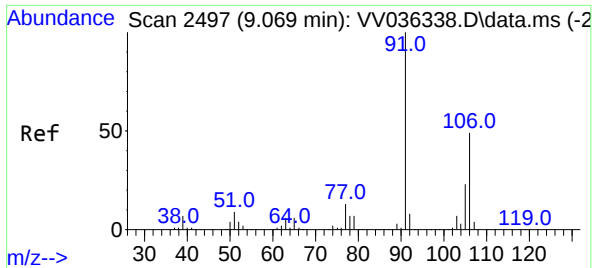


#50
1,2-Dibromoethane
Concen: 24.120 ug/L
RT: 8.281 min Scan# 2252
Delta R.T. 0.003 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55



Tgt Ion:107	Resp:	99283	
Ion	Ratio	Lower	Upper
107	100		
109	93.7	64.7	120.1
188	3.8	3.0	4.6

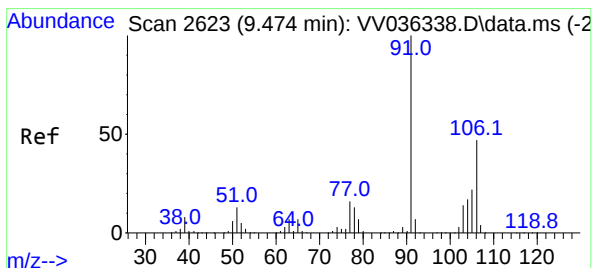
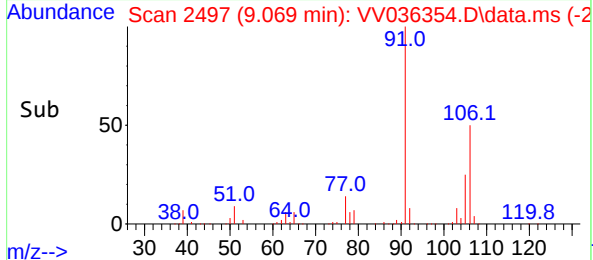
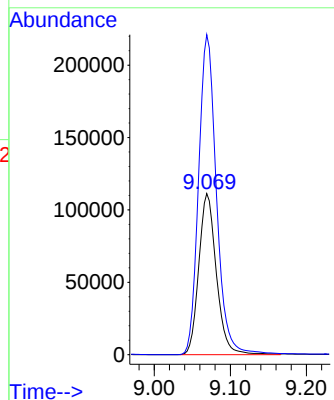
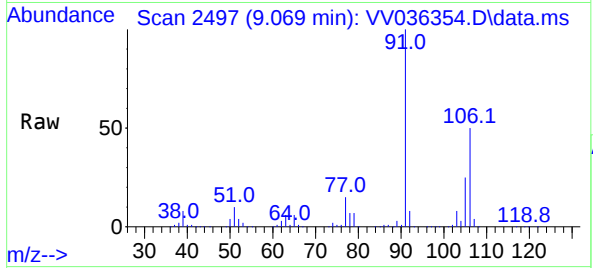




#53
m,p-Xylene
Concen: 22.984 ug/L
RT: 9.069 min Scan# 2497
Delta R.T. -0.000 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

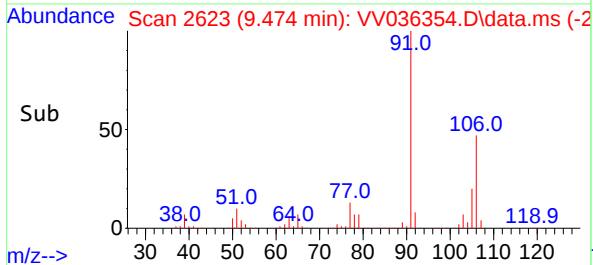
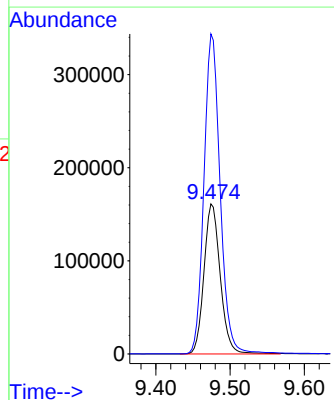
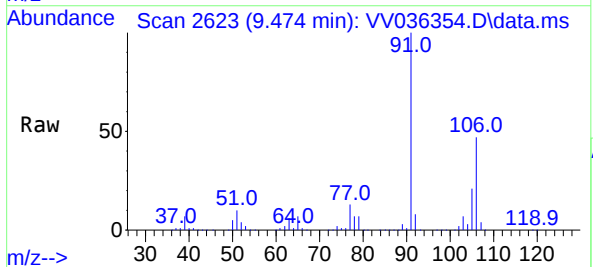
Instrument :
MSVOA_V
ClientSampleId :

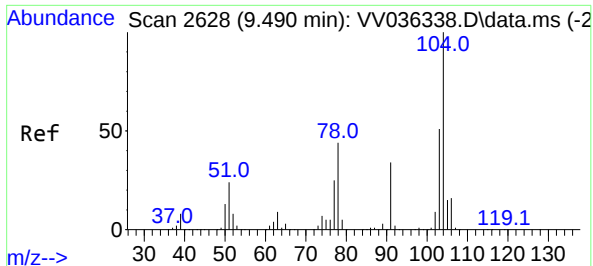
Tgt Ion:106 Resp: 178911
Ion Ratio Lower Upper
106 100
91 198.7 142.2 264.0



#54
o-Xylene
Concen: 33.538 ug/L
RT: 9.474 min Scan# 2623
Delta R.T. -0.000 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

Tgt Ion:106 Resp: 245503
Ion Ratio Lower Upper
106 100
91 213.3 152.7 283.7

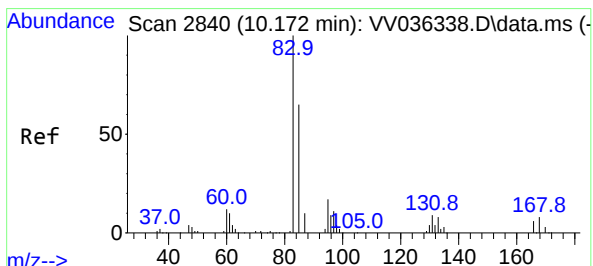
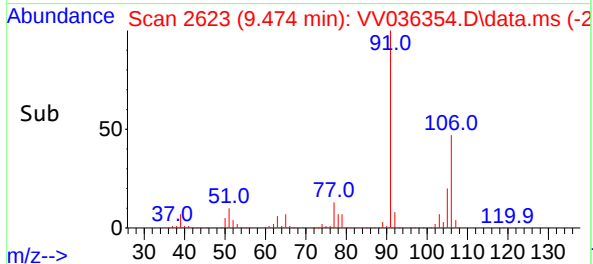
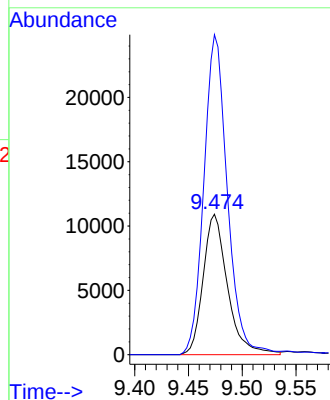
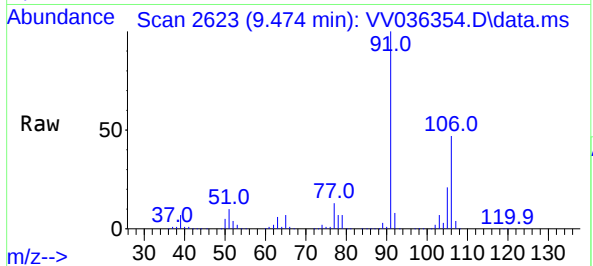




#55
Styrene
Concen: 1.347 ug/L
RT: 9.474 min Scan# 2623
Delta R.T. -0.016 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

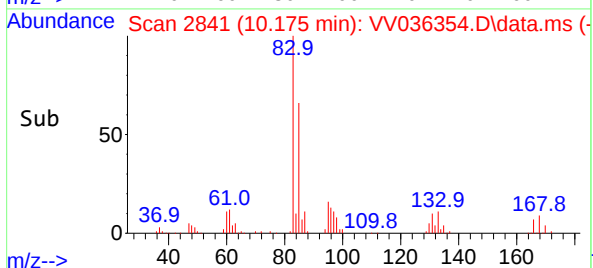
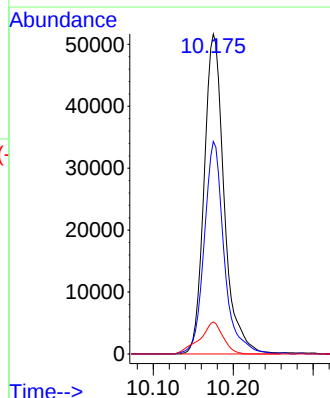
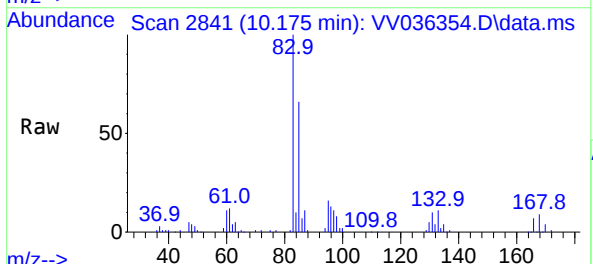
Instrument :
MSVOA_V
ClientSampleId :

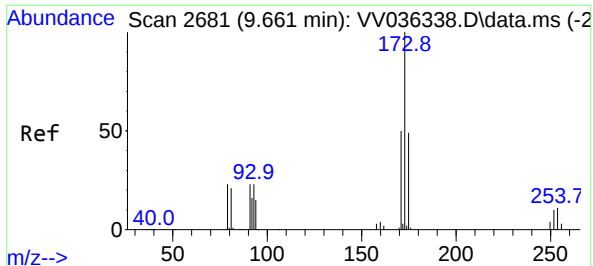
Tgt Ion:104 Resp: 17283
Ion Ratio Lower Upper
104 100
78 227.7 30.2 56.2#



#57
1,1,2,2-Tetrachloroethane
Concen: 24.051 ug/L
RT: 10.175 min Scan# 2841
Delta R.T. 0.003 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

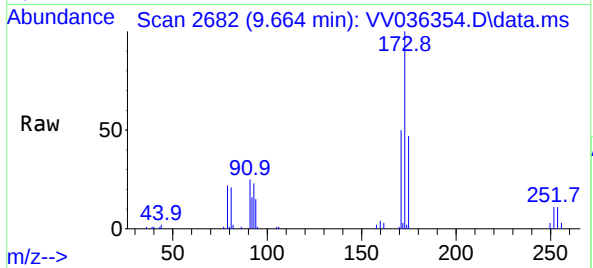
Tgt Ion: 83 Resp: 89939
Ion Ratio Lower Upper
83 100
85 66.4 45.7 84.9
131 10.0 7.8 11.6



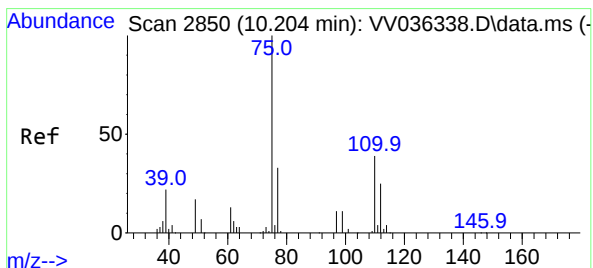
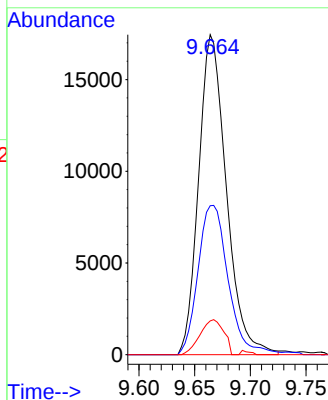
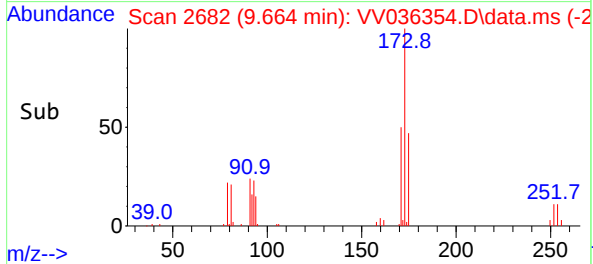


#59
Bromoform
Concen: 10.130 ug/L
RT: 9.664 min Scan# 20
Delta R.T. 0.003 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

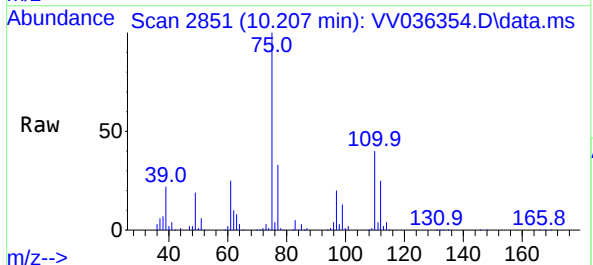
Instrument :
MSVOA_V
ClientSampleId :



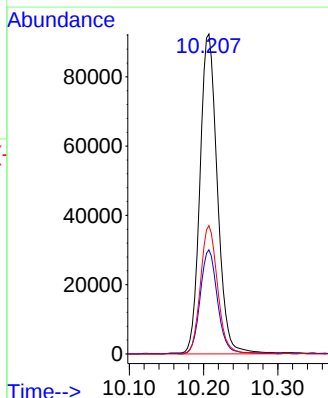
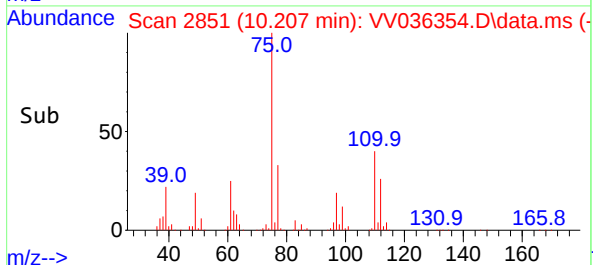
Tgt Ion:173 Resp: 30226
Ion Ratio Lower Upper
173 100
175 50.7 38.9 58.3
254 9.4 7.2 10.8

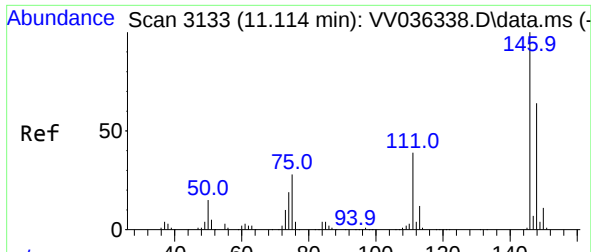


#61
1,2,3-Trichloropropane
Concen: 42.299 ug/L
RT: 10.207 min Scan# 2851
Delta R.T. 0.003 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55



Tgt Ion: 75 Resp: 150472
Ion Ratio Lower Upper
75 100
77 32.0 25.2 37.8
110 39.2 31.7 47.5

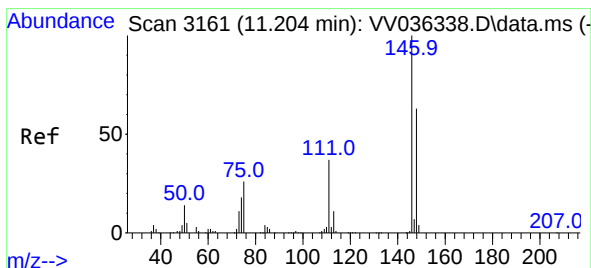
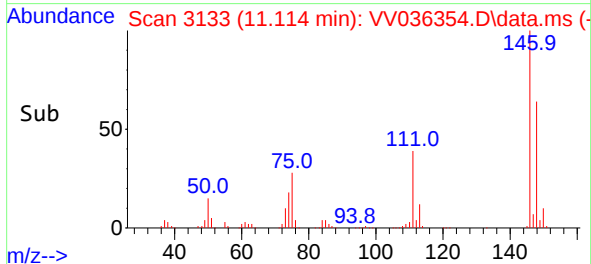
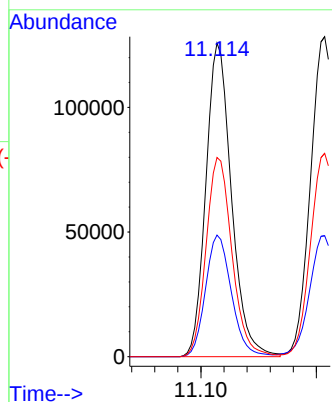
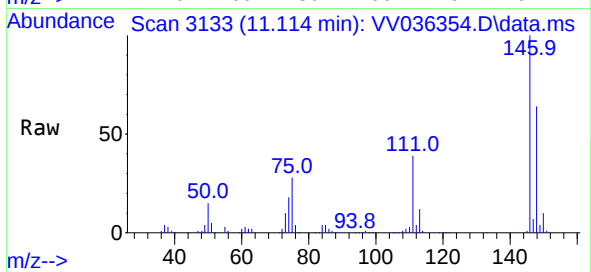




#64
1,3-Dichlorobenzene
Concen: 19.509 ug/L
RT: 11.114 min Scan# 3133
Delta R.T. -0.000 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

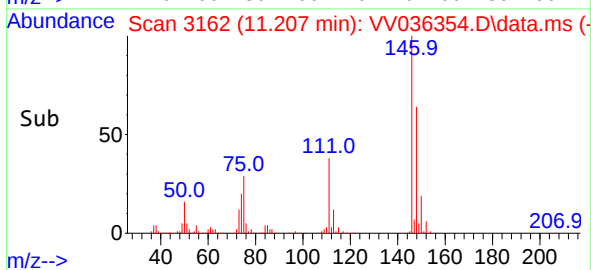
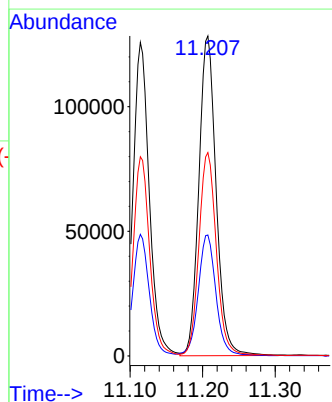
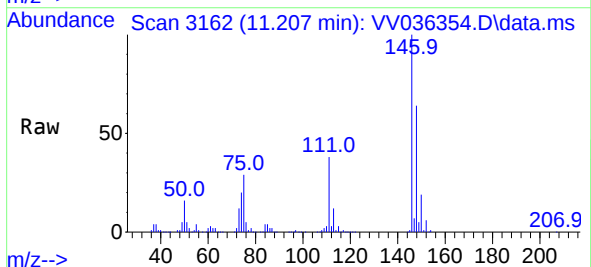
Instrument :
MSVOA_V
ClientSampleId :

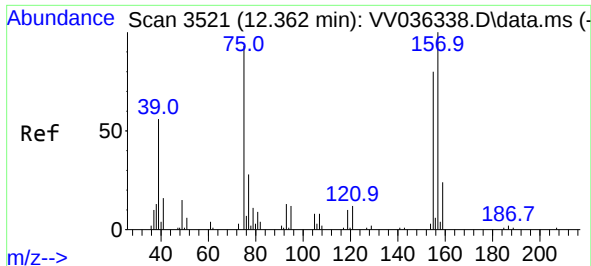
Tgt Ion:146 Resp: 193702
Ion Ratio Lower Upper
146 100
111 38.8 27.5 51.1
148 63.5 44.9 83.3



#65
1,4-Dichlorobenzene
Concen: 19.982 ug/L
RT: 11.207 min Scan# 3162
Delta R.T. 0.003 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

Tgt Ion:146 Resp: 212671
Ion Ratio Lower Upper
146 100
111 37.8 27.5 51.1
148 63.5 44.0 81.8





#68

1,2-Dibromo-3-chloropropane

Concen: 13.026 ug/L

RT: 12.365 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV036354.D

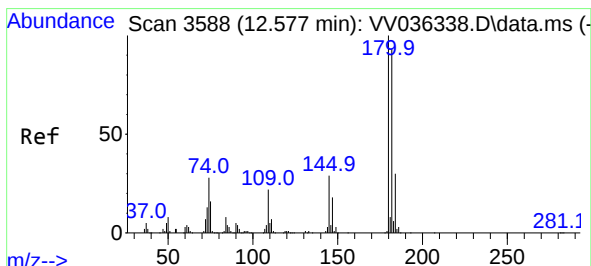
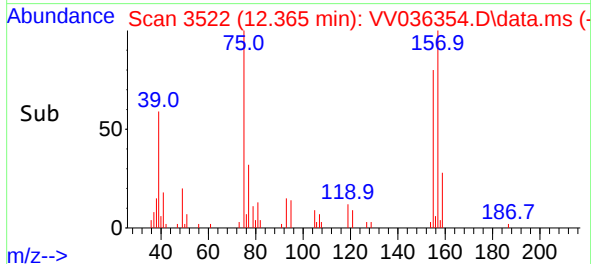
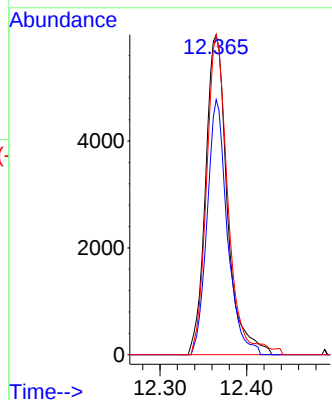
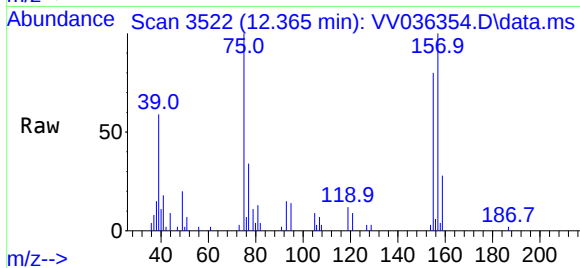
Acq: 28 Jun 2024 16:55

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	75	Resp:	10396
Ion	Ratio	Lower	Upper
75	100		
155	79.7	68.3	102.5
157	100.0	95.7	143.5



#69

1,3,5-Trichlorobenzene

Concen: 8.302 ug/L

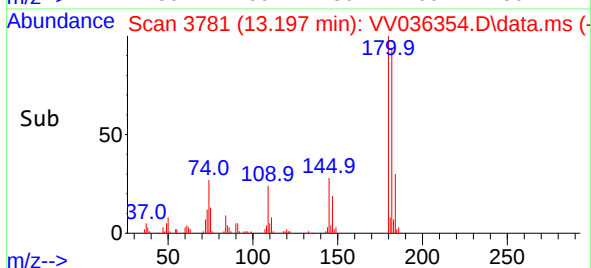
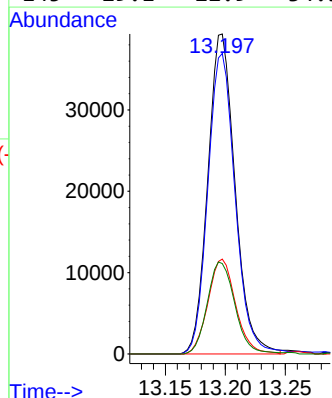
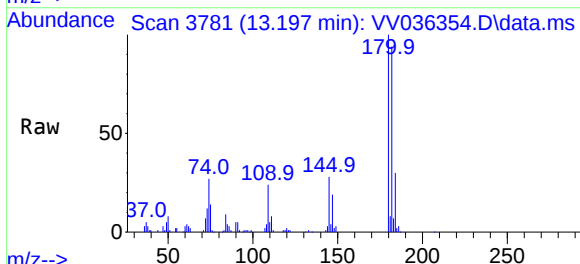
RT: 13.197 min Scan# 3781

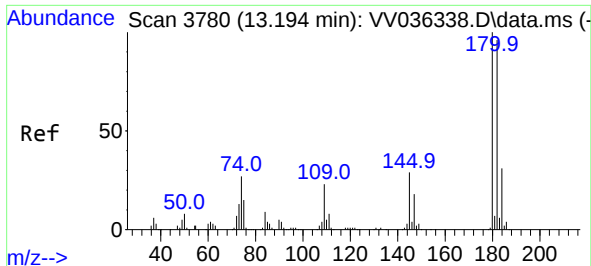
Delta R.T. 0.621 min

Lab File: VV036354.D

Acq: 28 Jun 2024 16:55

Tgt Ion:	180	Resp:	62073
Ion	Ratio	Lower	Upper
180	100		
182	94.0	76.2	114.4
184	30.0	23.3	34.9
145	29.1	22.9	34.3

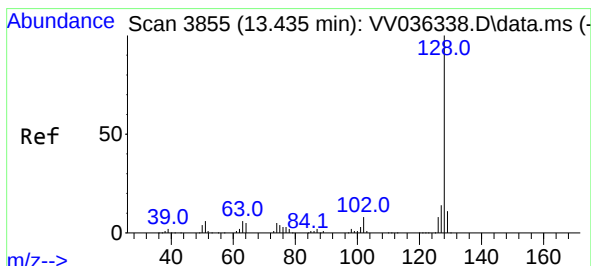
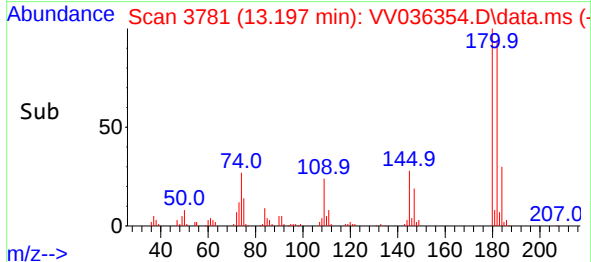
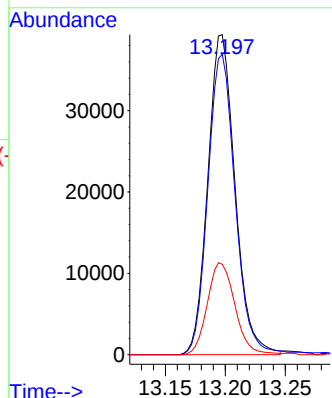
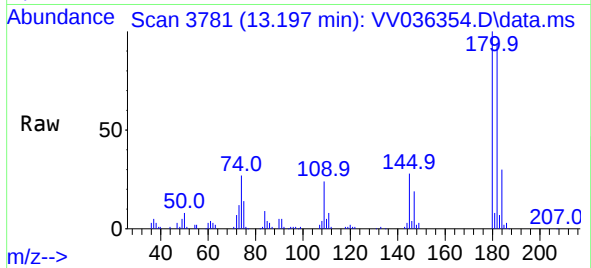




#70
1,2,4-trichlorobenzene
Concen: 10.411 ug/L
RT: 13.197 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:180 Resp: 62073
Ion Ratio Lower Upper
180 100
182 94.0 76.1 114.1
145 29.1 23.8 35.8



#71
Naphthalene
Concen: 37.675 ug/L
RT: 13.435 min Scan# 3855
Delta R.T. -0.000 min
Lab File: VV036354.D
Acq: 28 Jun 2024 16:55

Tgt Ion:128 Resp: 400497
Ion Ratio Lower Upper
128 100
127 13.9 10.8 16.2
129 11.1 8.6 13.0

