

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW011524\
 Data File : VW033652.D
 Acq On : 15 Jan 2024 18:57
 Operator : SY/MD
 Sample : P1131-20
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jan 16 03:48:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR011224WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Jan 16 03:40:53 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.539	114	112896	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.789	117	103529	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	52063	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	23776	3.851	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.000%
7) Chloroethane-d5	1.526	69	22370	4.086	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	81.800%
11) 1,1-Dichloroethene-d2	2.063	65	11854	4.261	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	85.200%
20) 2-Butanone-d5	3.899	46	56282	37.288	ug/L	0.08
Spiked Amount	50.000	Range	40 - 130	Recovery	=	74.580%
24) Chloroform-d	4.243	84	56468	4.230	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.600%
26) 1,2-Dichloroethane-d4	4.947	65	28847	4.819	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.400%
32) Benzene-d6	4.953	84	114994	4.603	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.000%
36) 1,2-Dichloropropane-d6	5.998	67	37940	4.556	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.200%
41) Toluene-d8	7.249	98	100910	4.525	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.400%
43) trans-1,3-Dichloroprop...	7.568	79	12035	4.180	ug/L	0.01
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.600%
46) 2-Hexanone-d5	8.047	63	61374	54.292	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.580%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	23876	4.906	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	98.200%
66) 1,2-Dichlorobenzene-d4	11.561	152	37599	4.704	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.000%
Target Compounds						
					Qvalue	
15) Methyl Acetate	2.375	43	5112	1.745	ug/L #	56
19) 1,1-Dichloroethane	3.111	63	1887	0.106	ug/L #	69
22) cis-1,2-Dichloroethene	3.809	96	2532	0.269	ug/L	95
30) Cyclohexane	4.558	56	45446	2.583	ug/L	97
33) Benzene	5.005	78	116136	3.160	ug/L	100
35) Methylcyclohexane	6.047	83	47062	2.842	ug/L	96
37) 1,2-Dichloropropane	5.998	63	4525	0.496	ug/L #	84
39) cis-1,3-Dichloropropene	6.931	75	1476	0.113	ug/L #	70
42) Toluene	7.326	91	39993	1.029	ug/L	98
45) 1,1,2-Trichloroethane	7.719	97	5131	1.012	ug/L #	20
48) 2-Hexanone	8.047	43	8844	2.877	ug/L #	65
51) Chlorobenzene	8.815	112	909411	38.189	ug/L	99
52) Ethylbenzene	8.953	91	8554	0.190	ug/L	96
53) m,p-Xylene	9.079	106	4844	0.292	ug/L	96
54) o-Xylene	9.481	106	36363	2.251	ug/L	97
55) Styrene	9.481	104	2064	0.080	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.169	83	1536	0.276	ug/L #	73
60) Isopropylbenzene	9.866	105	300040	7.284	ug/L	99
61) 1,2,3-Trichloropropane	10.291	75	3442	0.825	ug/L #	1

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Misc : 25.0mL/MSVOA_V/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

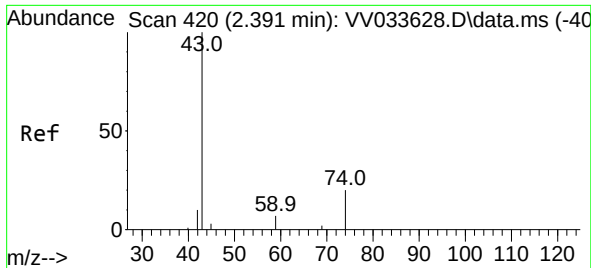
Quant Time: Jan 16 03:48:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR011224WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Tue Jan 16 03:40:53 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	10.477	105	35712	1.003	ug/L	97
63) 1,2,4-Trimethylbenzene	10.477	105	35712	0.994	ug/L	92
64) 1,3-Dichlorobenzene	11.120	146	23796	1.306	ug/L	95
65) 1,4-Dichlorobenzene	11.210	146	94693	5.308	ug/L	98
67) 1,2-Dichlorobenzene	11.580	146	65967	4.167	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.349	75	3110	3.391	ug/L #	8
70) 1,2,4-trichlorobenzene	13.201	180	2152	0.183	ug/L #	1
71) Naphthalene	13.426	128	5178	0.263	ug/L #	1

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

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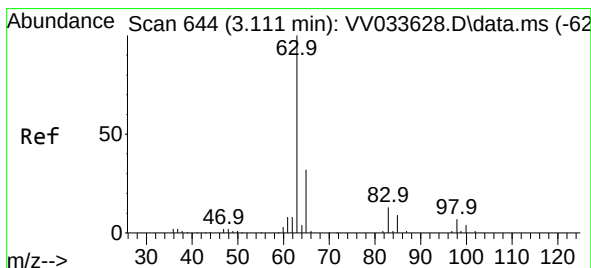
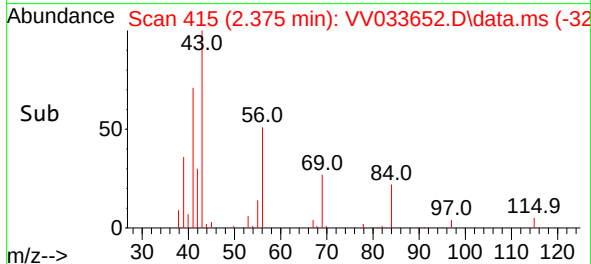
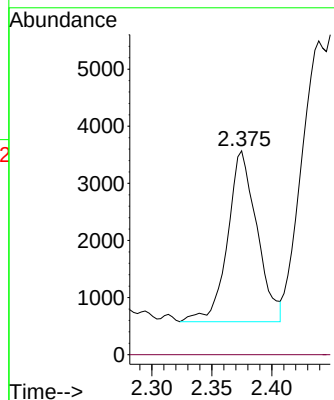
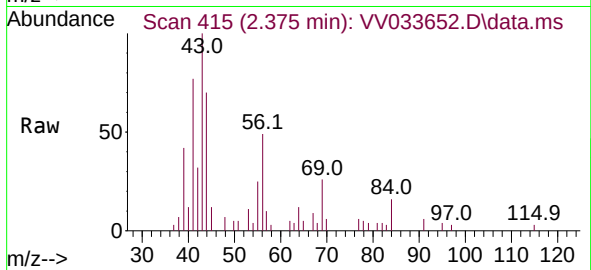




#15
Methyl Acetate
Concen: 1.745 ug/L
RT: 2.375 min Scan# 415
Delta R.T. -0.016 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

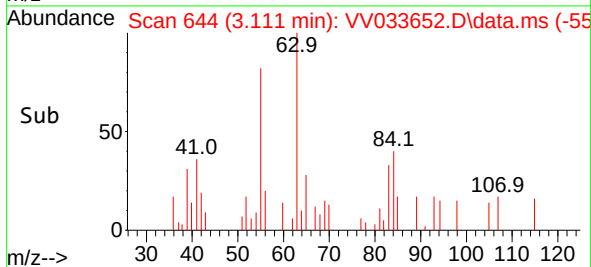
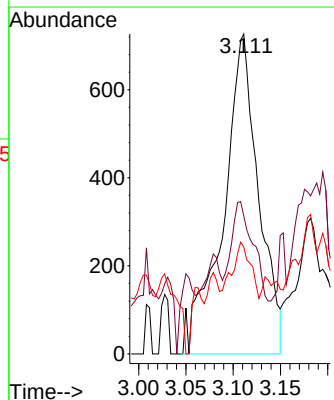
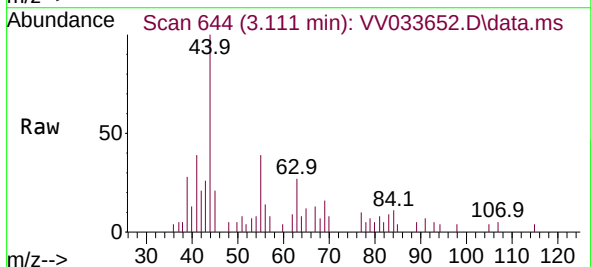
Instrument :
MSVOA_V
ClientSampleId :

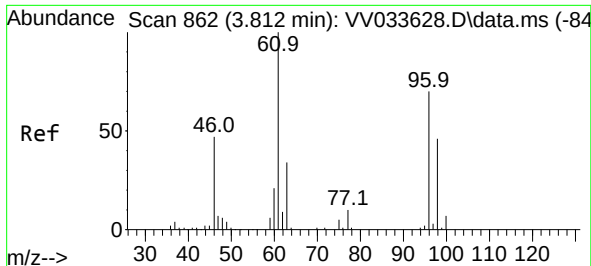
Tgt Ion: 43 Resp: 5112
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#



#19
1,1-Dichloroethane
Concen: 0.106 ug/L
RT: 3.111 min Scan# 644
Delta R.T. 0.000 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

Tgt Ion: 63 Resp: 1887
Ion Ratio Lower Upper
63 100
65 43.2 21.6 40.2#
83 33.4 9.1 16.9#





#22

cis-1,2-Dichloroethene

Concen: 0.269 ug/L

RT: 3.809 min Scan# 80

Delta R.T. -0.003 min

Lab File: VV033652.D

Acq: 15 Jan 2024 18:57

Instrument :

MSVOA_V

ClientSampleId :

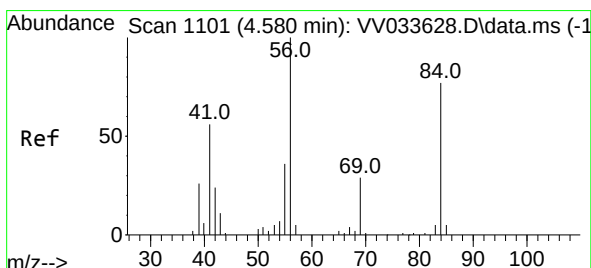
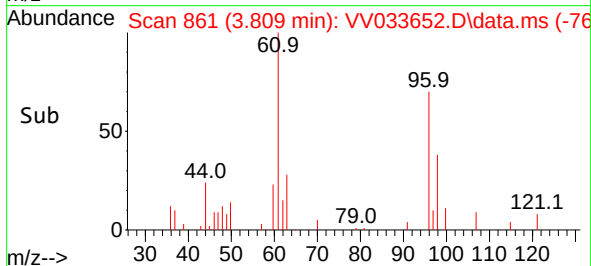
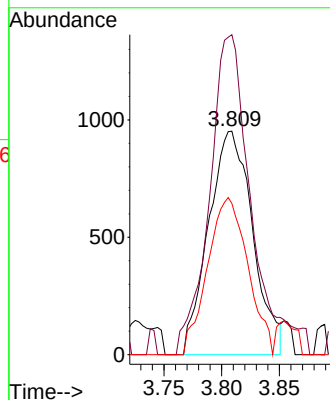
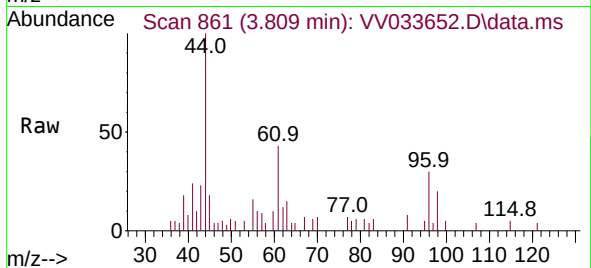
Tgt Ion: 96 Resp: 2532

Ion Ratio Lower Upper

96 100

61 143.2 97.1 180.3

98 67.6 42.6 79.0



#30

Cyclohexane

Concen: 2.583 ug/L

RT: 4.558 min Scan# 1094

Delta R.T. -0.022 min

Lab File: VV033652.D

Acq: 15 Jan 2024 18:57

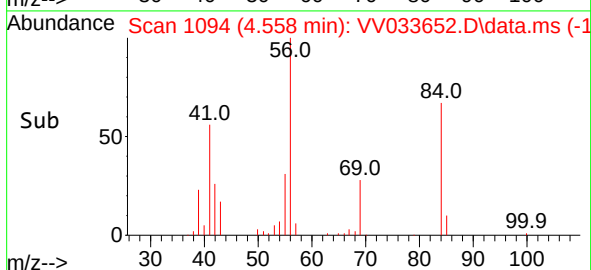
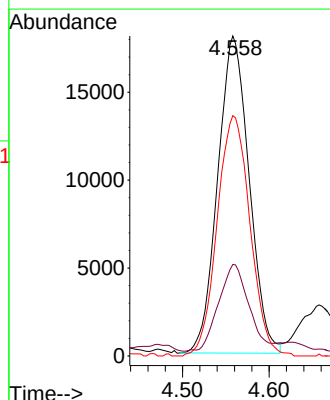
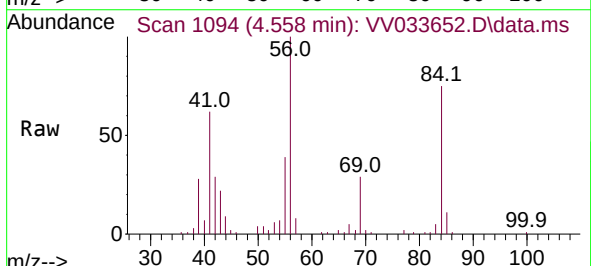
Tgt Ion: 56 Resp: 45446

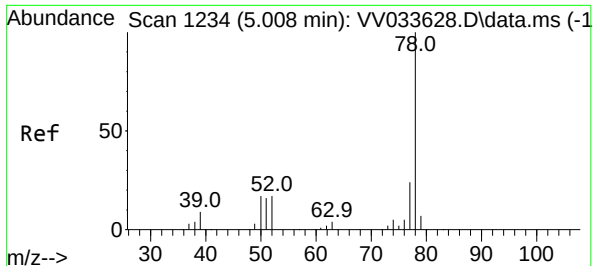
Ion Ratio Lower Upper

56 100

69 26.2 23.3 34.9

84 79.2 61.7 92.5

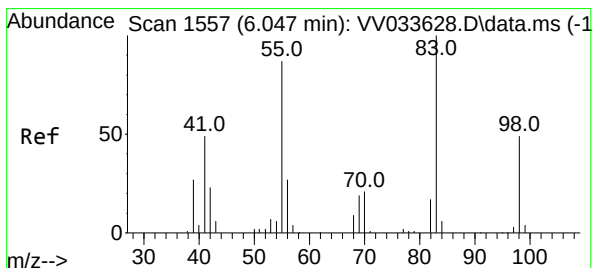
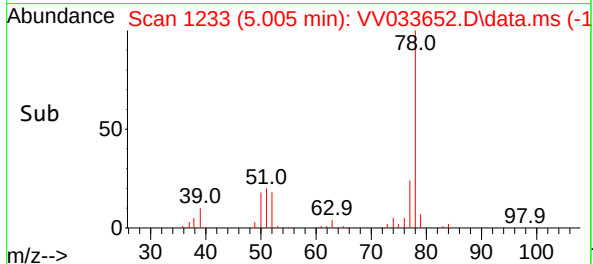
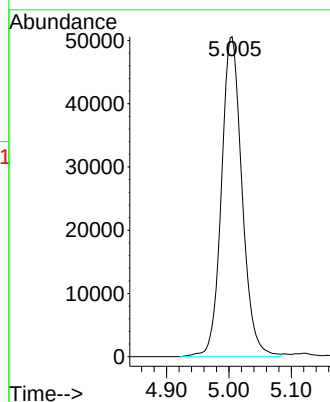
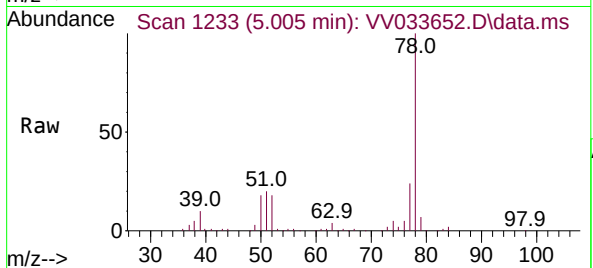




#33
Benzene
Concen: 3.160 ug/L
RT: 5.005 min Scan# 11
Delta R.T. -0.003 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

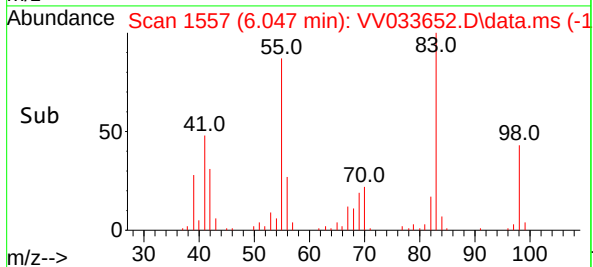
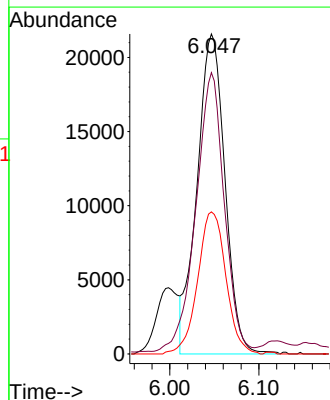
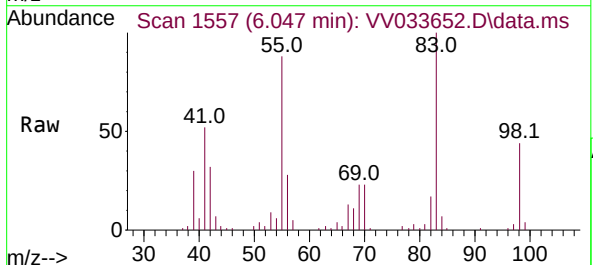
Instrument :
MSVOA_V
ClientSampleId :

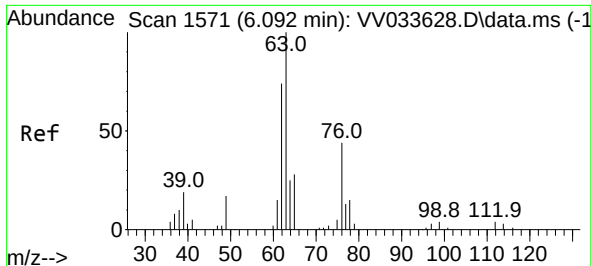
Tgt Ion: 78 Resp: 116136



#35
Methylcyclohexane
Concen: 2.842 ug/L
RT: 6.047 min Scan# 1557
Delta R.T. 0.000 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

Tgt Ion: 83 Resp: 47062
Ion Ratio Lower Upper
83 100
55 88.7 68.7 103.1
98 44.8 38.3 57.5

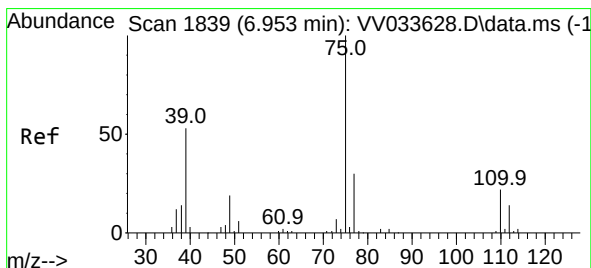
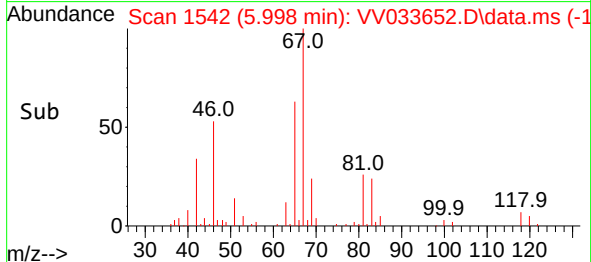
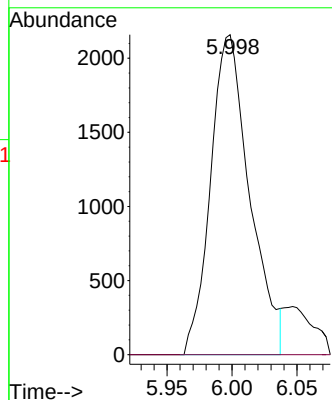
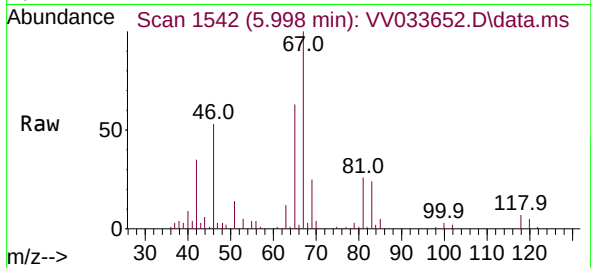




#37
1,2-Dichloropropane
Concen: 0.496 ug/L
RT: 5.998 min Scan# 11
Delta R.T. -0.093 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

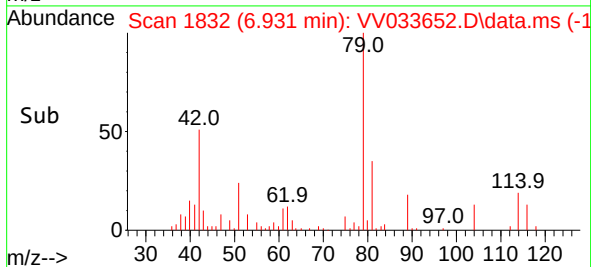
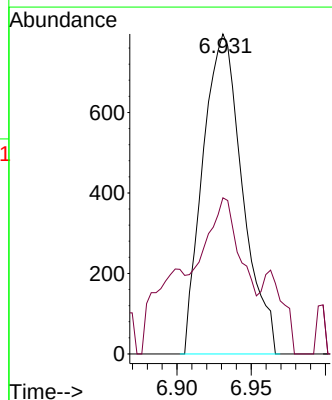
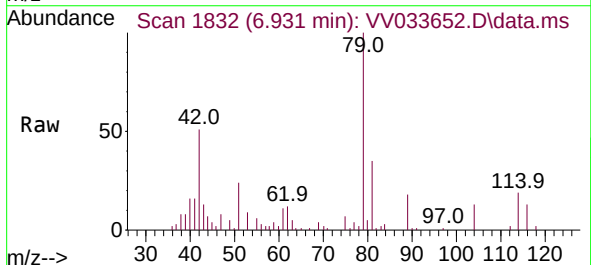
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MSVOA_V
ClientSampleId :

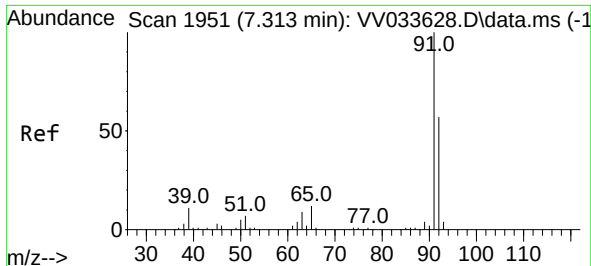
Tgt Ion: 63 Resp: 4525
Ion Ratio Lower Upper
63 100
112 9.5 3.4 5.2#



#39
cis-1,3-Dichloropropene
Concen: 0.113 ug/L
RT: 6.931 min Scan# 1832
Delta R.T. -0.022 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

Tgt Ion: 75 Resp: 1476
Ion Ratio Lower Upper
75 100
77 48.8 22.5 41.7#





#42

Toluene

Concen: 1.029 ug/L

RT: 7.326 min Scan# 1951

Delta R.T. 0.013 min

Lab File: VV033652.D

Acq: 15 Jan 2024 18:57

Instrument :

MSVOA_V

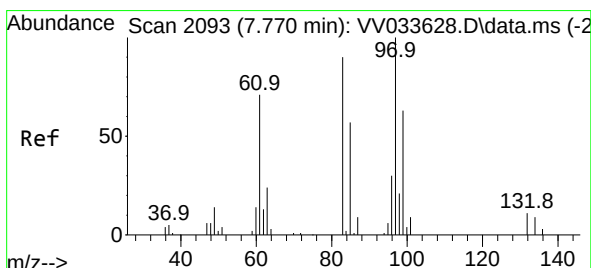
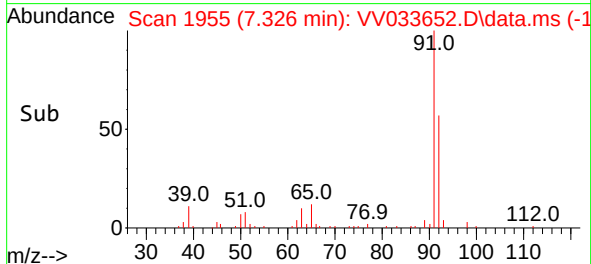
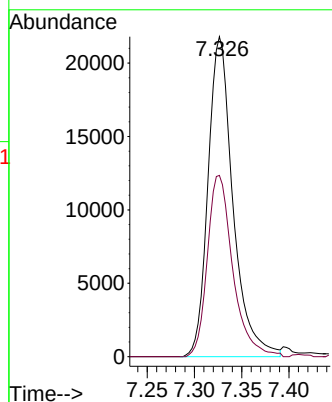
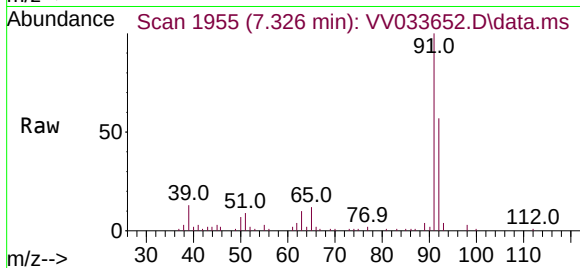
ClientSampleId :

Tgt Ion: 91 Resp: 39993

Ion Ratio Lower Upper

91 100

92 56.7 40.5 75.3



#45

1,1,2-Trichloroethane

Concen: 1.012 ug/L

RT: 7.719 min Scan# 2077

Delta R.T. -0.051 min

Lab File: VV033652.D

Acq: 15 Jan 2024 18:57

Tgt Ion: 97 Resp: 5131

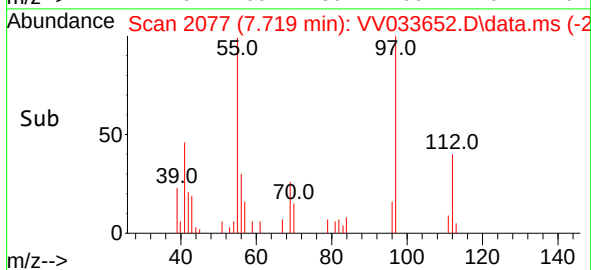
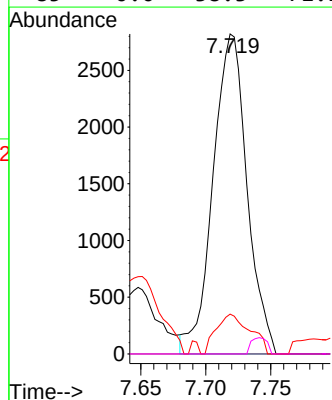
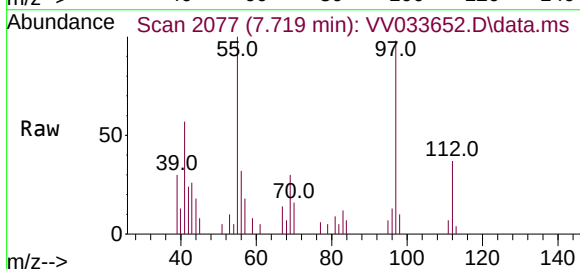
Ion Ratio Lower Upper

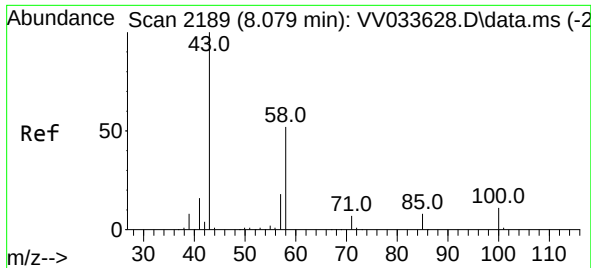
97 100

99 0.0 44.9 83.3#

83 12.4 60.5 112.3#

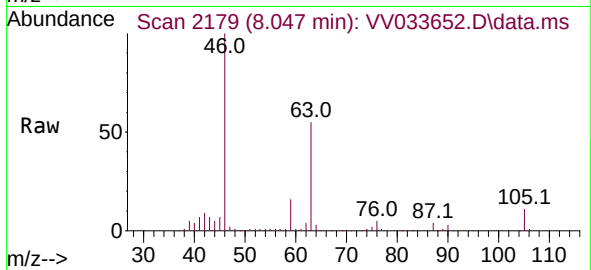
85 0.0 38.3 71.1#



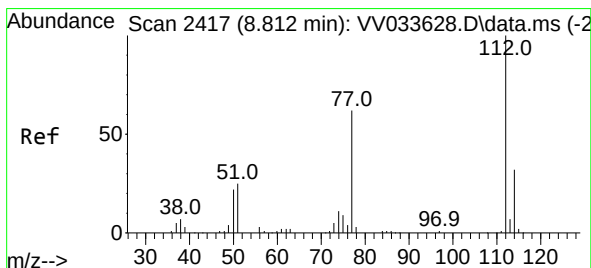
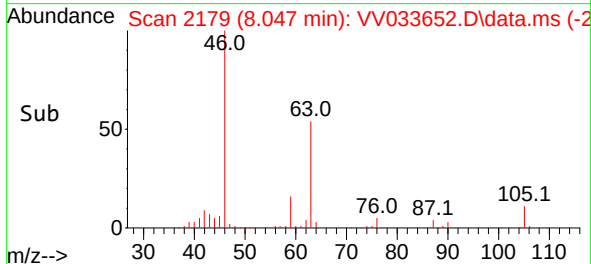
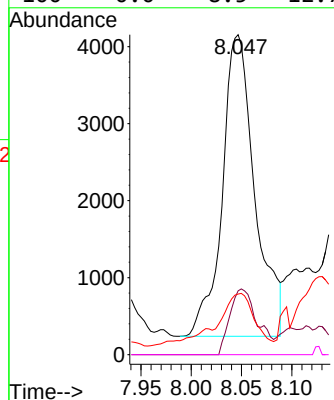


#48
2-Hexanone
Concen: 2.877 ug/L
RT: 8.047 min Scan# 2189
Delta R.T. -0.032 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

Instrument :
MSVOA_V
ClientSampleId :

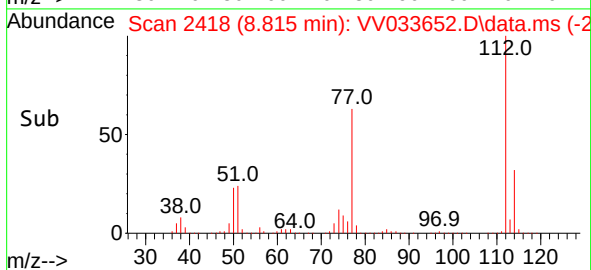
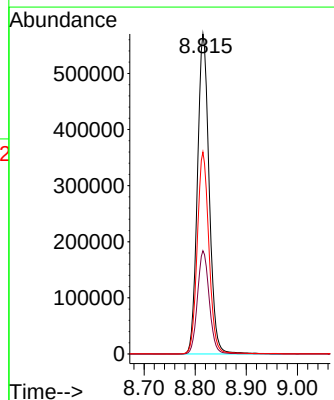
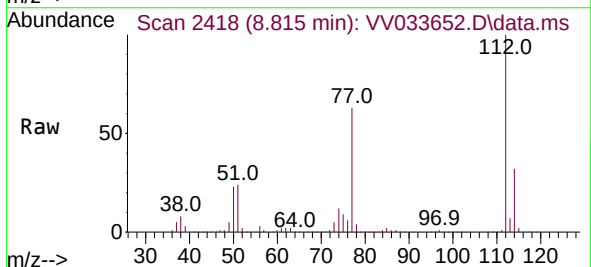


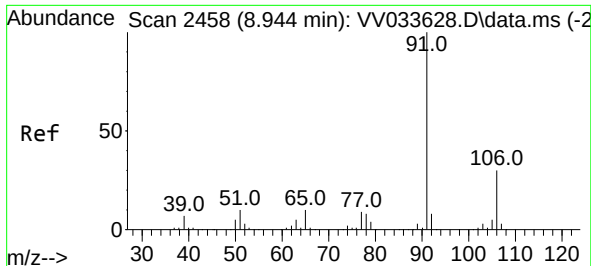
Tgt Ion: 43	Resp: 8844
Ion Ratio	Lower Upper
43 100	
58 18.6	40.6 61.0#
57 20.0	13.8 20.8
100 0.0	8.5 12.7#



#51
Chlorobenzene
Concen: 38.189 ug/L
RT: 8.815 min Scan# 2418
Delta R.T. 0.003 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

Tgt Ion:112	Resp: 909411
Ion Ratio	Lower Upper
112 100	
114 32.3	22.9 42.5
77 63.1	50.8 76.2

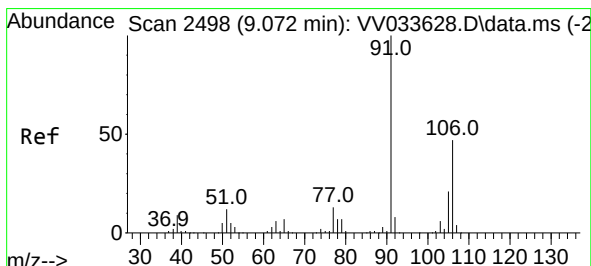
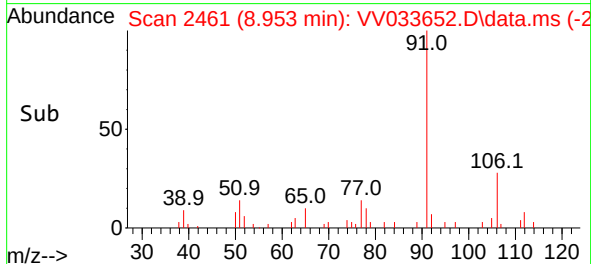
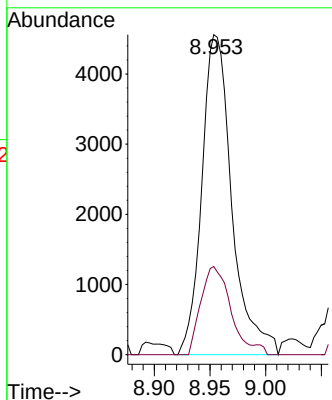
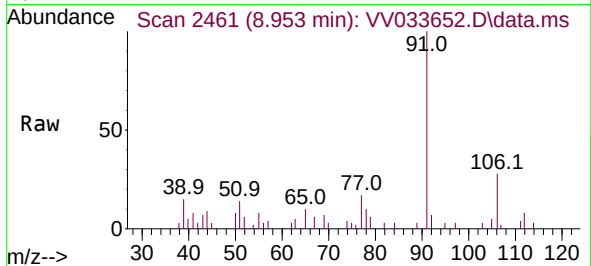




#52
Ethylbenzene
Concen: 0.190 ug/L
RT: 8.953 min Scan# 2458
Delta R.T. 0.010 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

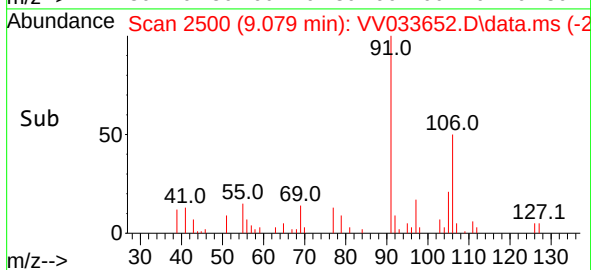
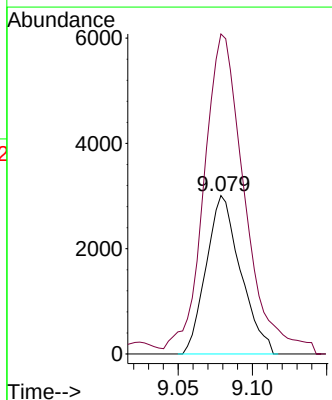
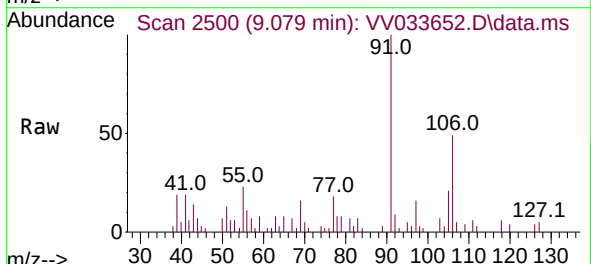
Instrument :
MSVOA_V
ClientSampleId :

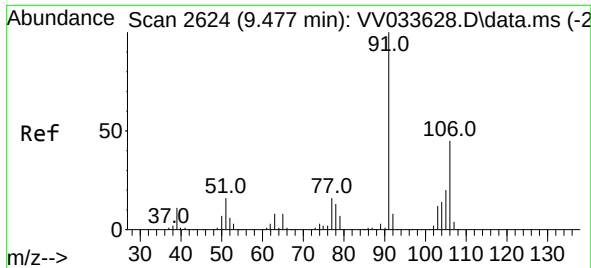
Tgt Ion: 91 Resp: 8554
Ion Ratio Lower Upper
91 100
106 27.6 20.6 38.4



#53
m,p-Xylene
Concen: 0.292 ug/L
RT: 9.079 min Scan# 2500
Delta R.T. 0.007 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

Tgt Ion: 106 Resp: 4844
Ion Ratio Lower Upper
106 100
91 202.1 146.2 271.4

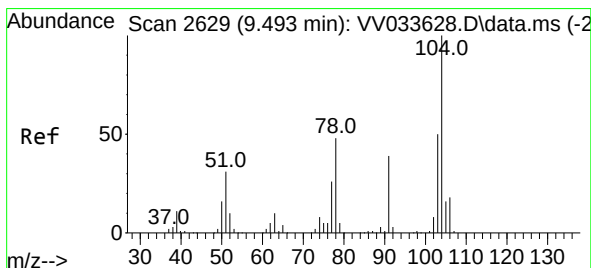
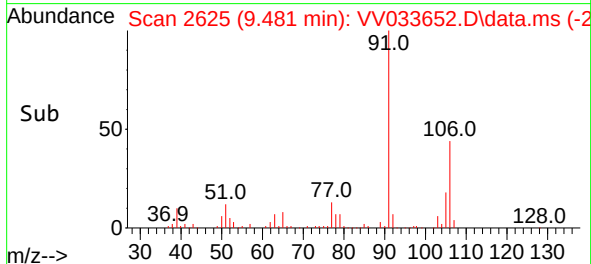
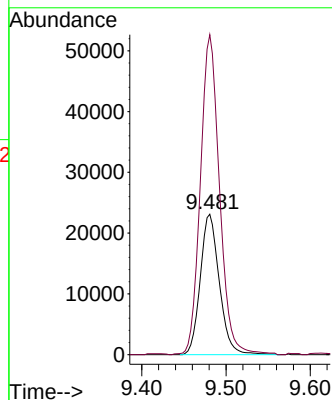
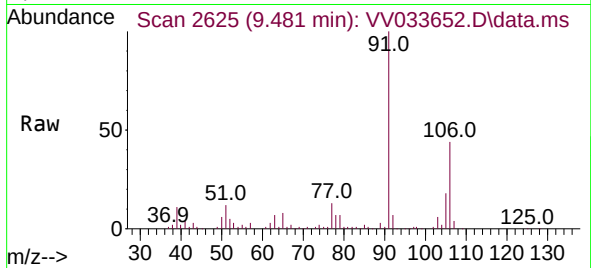




#54
o-Xylene
Concen: 2.251 ug/L
RT: 9.481 min Scan# 2625
Delta R.T. 0.003 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

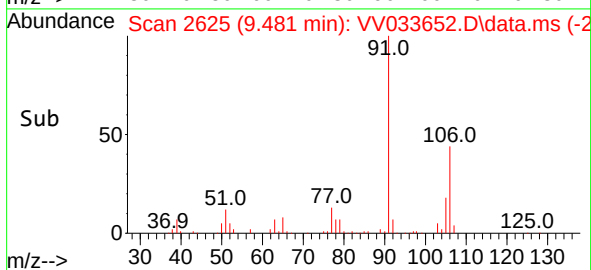
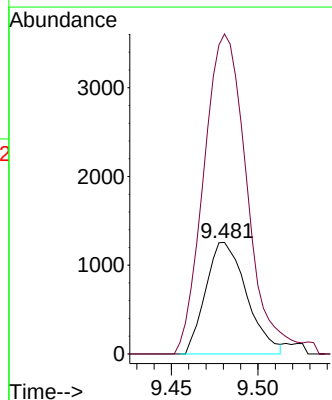
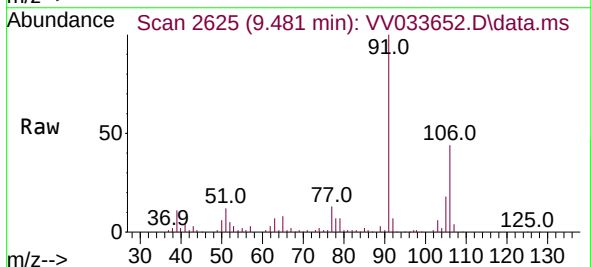
Instrument :
MSVOA_V
ClientSampleId :

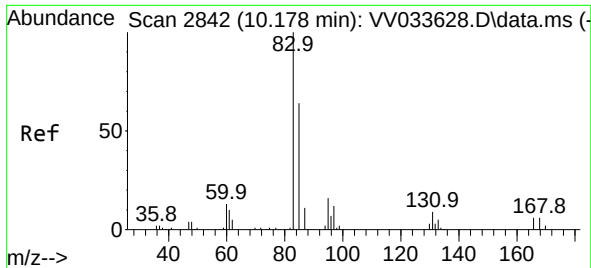
Tgt Ion:106 Resp: 36363
Ion Ratio Lower Upper
106 100
91 227.7 156.0 289.6



#55
Styrene
Concen: 0.080 ug/L
RT: 9.481 min Scan# 2625
Delta R.T. -0.013 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

Tgt Ion:104 Resp: 2064
Ion Ratio Lower Upper
104 100
78 287.1 33.1 61.5#





#57

1,1,2,2-Tetrachloroethane

Concen: 0.276 ug/L

RT: 10.169 min Scan# 2839

Delta R.T. -0.010 min

Lab File: VV033652.D

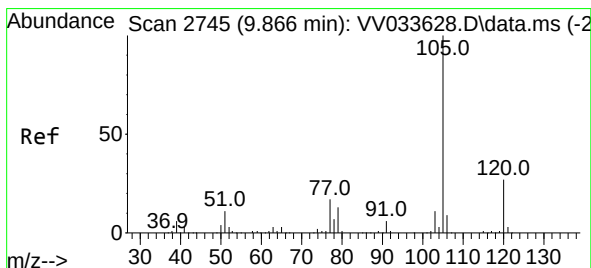
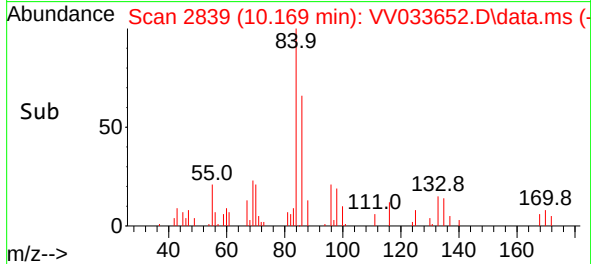
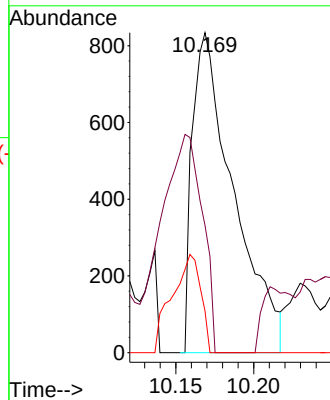
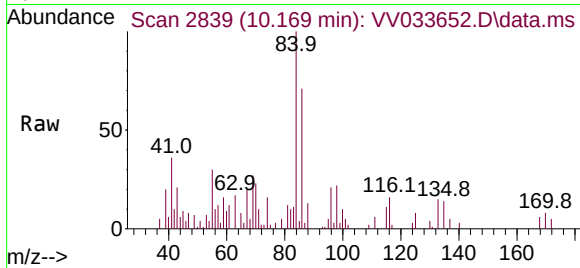
Acq: 15 Jan 2024 18:57

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	83	Resp:	1536
Ion	Ratio	Lower	Upper
83	100		
85	39.8	43.5	80.7#
131	13.1	7.4	11.0#



#60

Isopropylbenzene

Concen: 7.284 ug/L

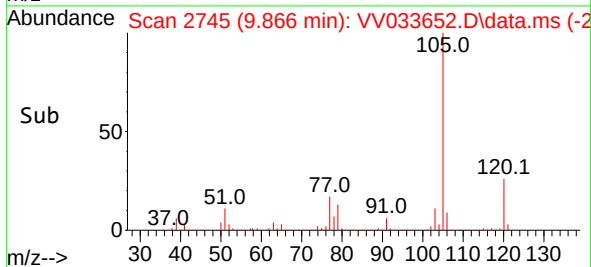
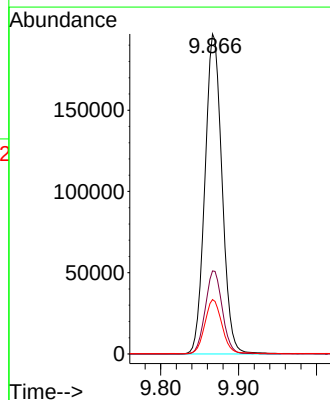
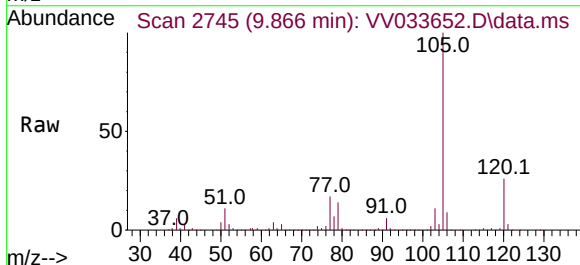
RT: 9.866 min Scan# 2745

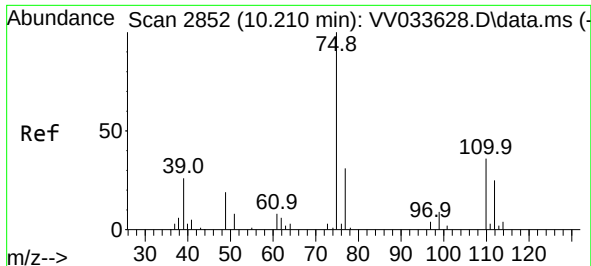
Delta R.T. 0.000 min

Lab File: VV033652.D

Acq: 15 Jan 2024 18:57

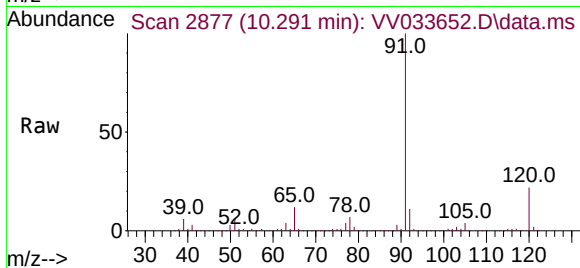
Tgt Ion:	105	Resp:	300040
Ion	Ratio	Lower	Upper
105	100		
120	25.9	21.0	31.6
77	16.9	13.4	20.0



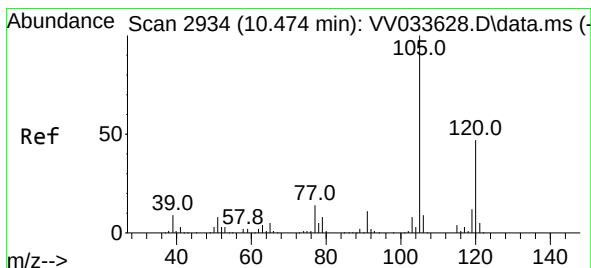
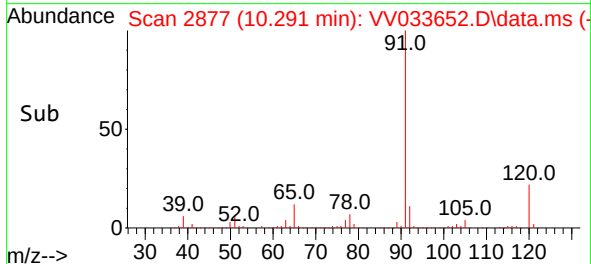
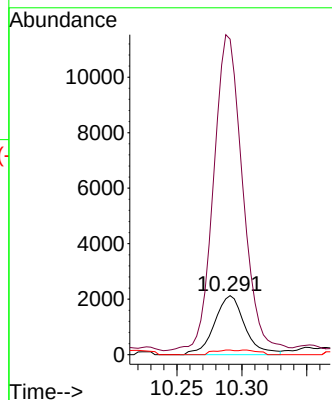


#61
1,2,3-Trichloropropane
Concen: 0.825 ug/L
RT: 10.291 min Scan# 2877
Delta R.T. 0.080 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

Instrument :
MSVOA_V
ClientSampleId :

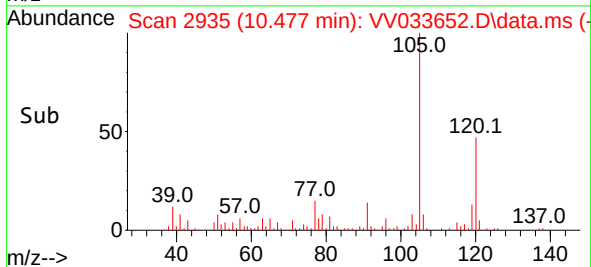
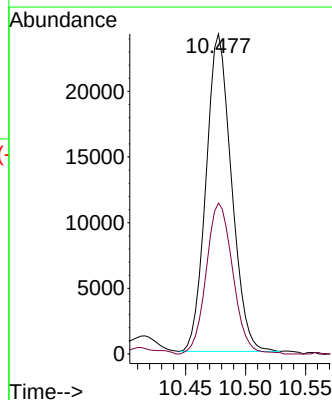
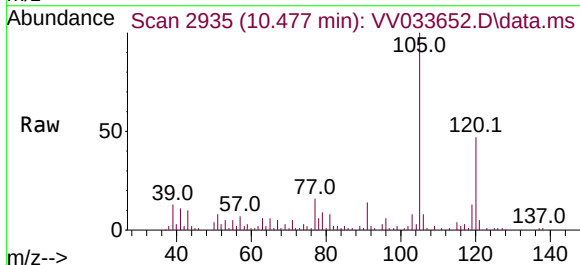


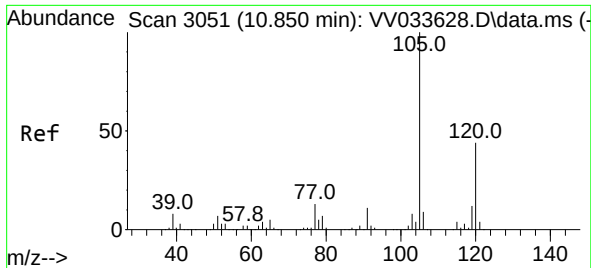
Tgt Ion: 75 Resp: 3442
Ion Ratio Lower Upper
75 100
77 512.1 24.7 37.1#
110 6.3 28.0 42.0#



#62
1,3,5-Trimethylbenzene
Concen: 1.003 ug/L
RT: 10.477 min Scan# 2935
Delta R.T. 0.003 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

Tgt Ion: 105 Resp: 35712
Ion Ratio Lower Upper
105 100
120 49.6 38.3 57.5

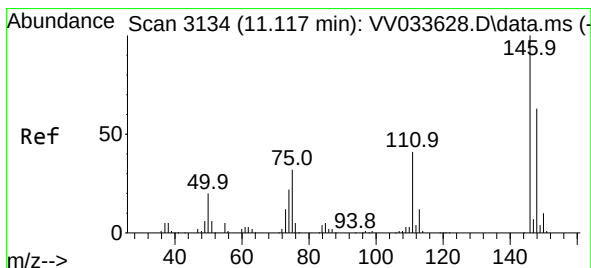
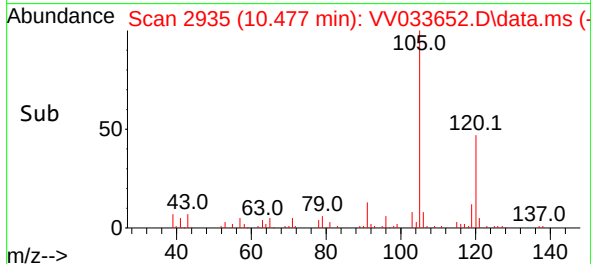
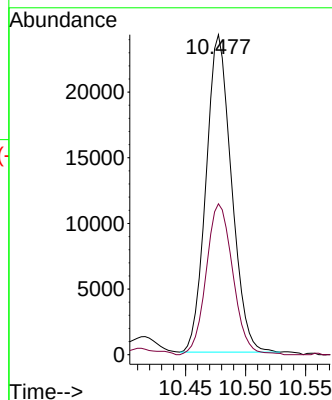
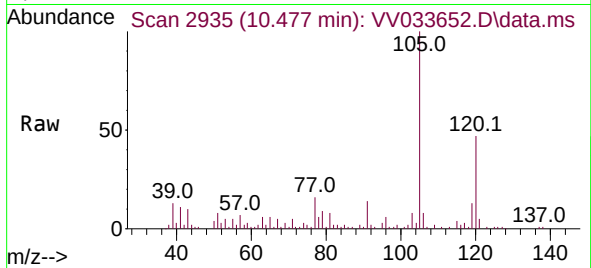




#63
 1,2,4-Trimethylbenzene
 Concen: 0.994 ug/L
 RT: 10.477 min Scan# 29
 Delta R.T. -0.373 min
 Lab File: VV033652.D
 Acq: 15 Jan 2024 18:57

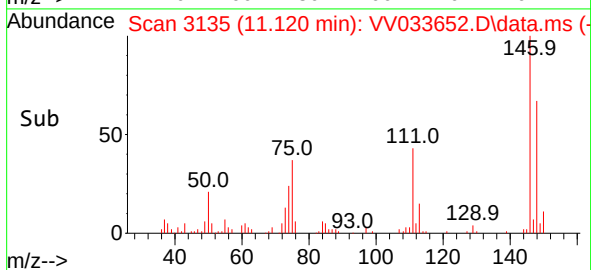
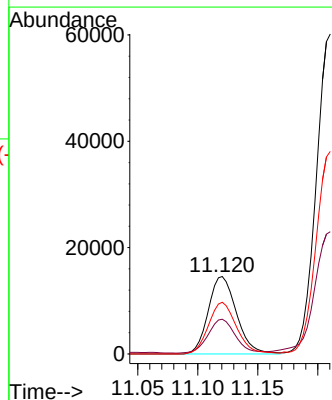
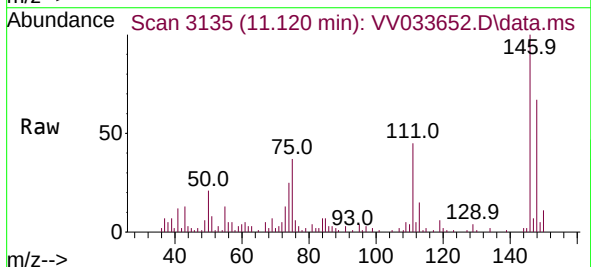
Instrument :
 MSVOA_V
 ClientSampleId :

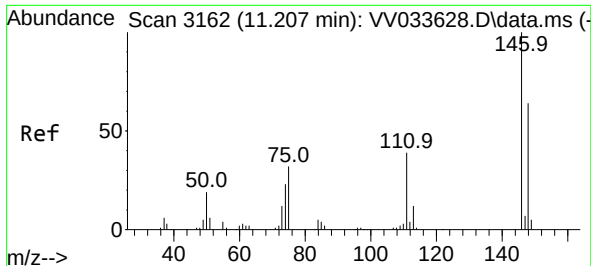
Tgt Ion:105 Resp: 35712
 Ion Ratio Lower Upper
 105 100
 120 49.6 35.5 53.3



#64
 1,3-Dichlorobenzene
 Concen: 1.306 ug/L
 RT: 11.120 min Scan# 3135
 Delta R.T. 0.003 min
 Lab File: VV033652.D
 Acq: 15 Jan 2024 18:57

Tgt Ion:146 Resp: 23796
 Ion Ratio Lower Upper
 146 100
 111 44.8 29.2 54.2
 148 66.7 44.1 81.9

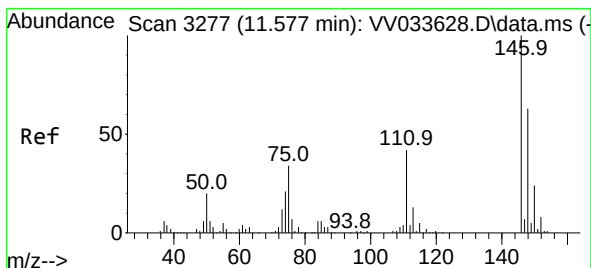
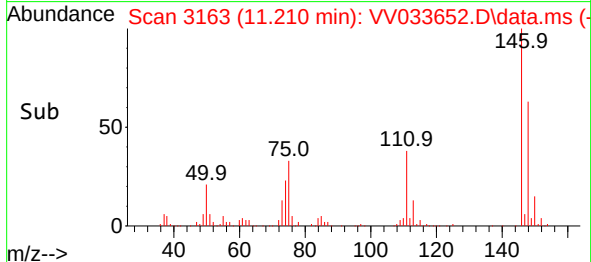
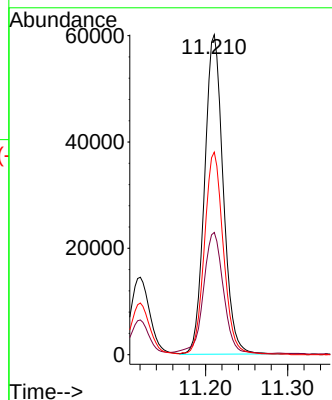
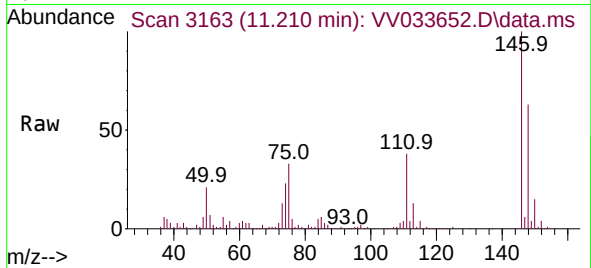




#65
1,4-Dichlorobenzene
Concen: 5.308 ug/L
RT: 11.210 min Scan# 3162
Delta R.T. 0.003 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

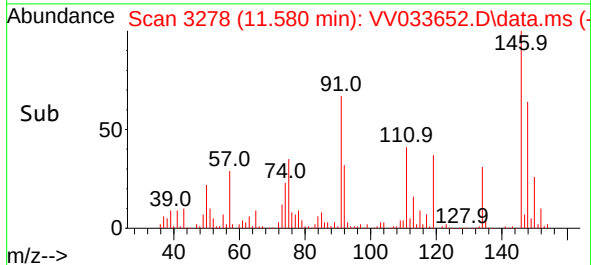
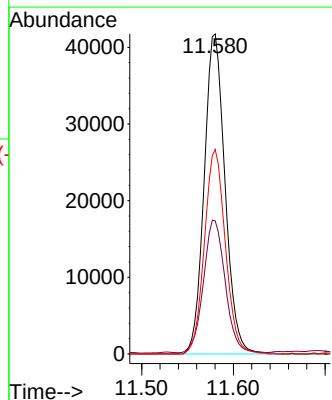
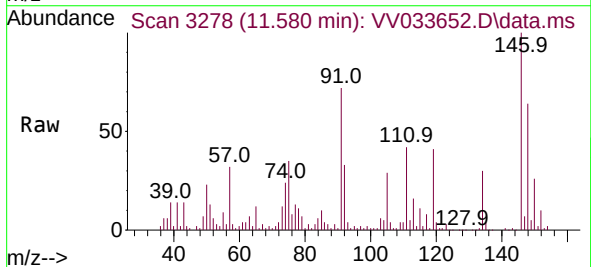
Instrument :
MSVOA_V
ClientSampleId :

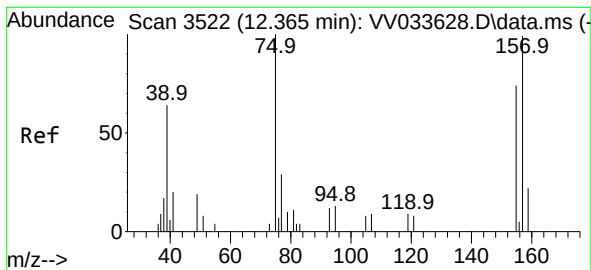
Tgt Ion:146 Resp: 94693
Ion Ratio Lower Upper
146 100
111 38.2 27.5 51.1
148 63.3 43.3 80.5



#67
1,2-Dichlorobenzene
Concen: 4.167 ug/L
RT: 11.580 min Scan# 3278
Delta R.T. 0.003 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

Tgt Ion:146 Resp: 65967
Ion Ratio Lower Upper
146 100
111 41.6 36.1 54.1
148 63.9 52.2 78.2

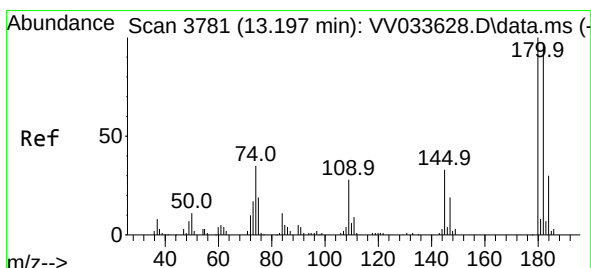
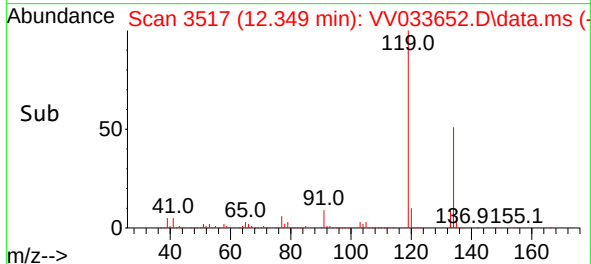
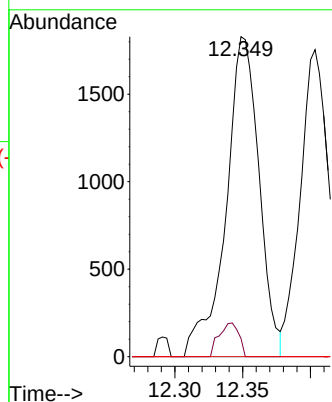
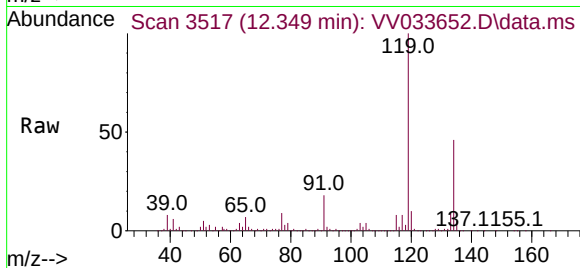




#68
1,2-Dibromo-3-chloropropane
Concen: 3.391 ug/L
RT: 12.349 min Scan# 3110
Delta R.T. -0.016 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

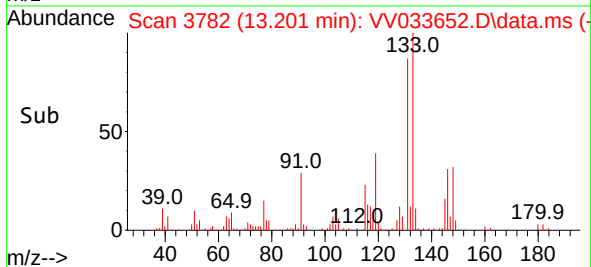
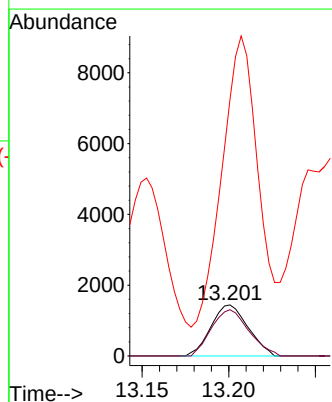
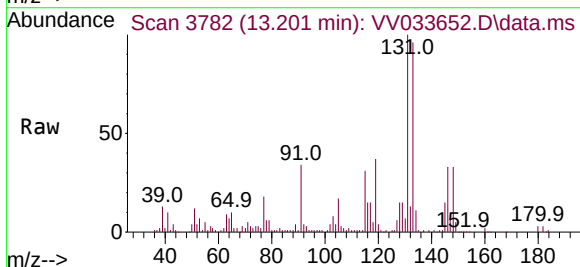
Instrument :
MSVOA_V
ClientSampleId :

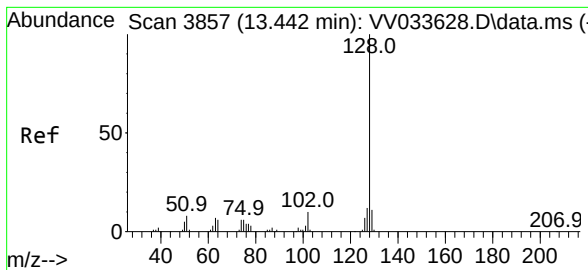
Tgt Ion: 75 Resp: 3110
Ion Ratio Lower Upper
75 100
155 5.7 65.3 97.9#
157 0.0 75.4 113.0#



#70
1,2,4-trichlorobenzene
Concen: 0.183 ug/L
RT: 13.201 min Scan# 3782
Delta R.T. 0.003 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

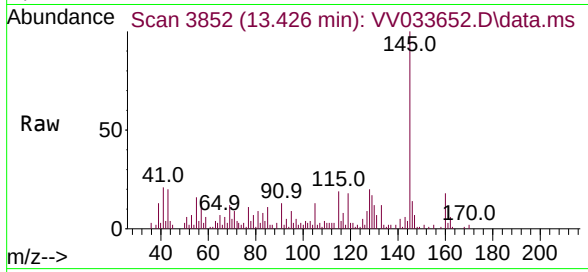
Tgt Ion:180 Resp: 2152
Ion Ratio Lower Upper
180 100
182 91.6 75.0 112.6
145 538.2 24.8 37.2#





#71
Naphthalene
Concen: 0.263 ug/L
RT: 13.426 min Scan# 3852
Delta R.T. -0.016 min
Lab File: VV033652.D
Acq: 15 Jan 2024 18:57

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:	128	Resp:	5178
Ion Ratio	Lower	Upper	
128	100		
129	72.8	8.8	13.2#
127	33.0	10.4	15.6#

