

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW011624\
 Data File : VW033680.D
 Acq On : 16 Jan 2024 18:56
 Operator : SY/MD
 Sample : P1131-18
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jan 17 00:15:01 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR011224WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Jan 17 00:08:33 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.526	114	102217	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	92997	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	47833	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	21316	3.813	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.200%
7) Chloroethane-d5	1.526	69	22212	4.481	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.600%
11) 1,1-Dichloroethene-d2	2.050	65	11233	4.459	ug/L	-0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.200%
20) 2-Butanone-d5	3.876	46	65021	47.578	ug/L	0.06
Spiked Amount	50.000	Range	40 - 130	Recovery	=	95.160%
24) Chloroform-d	4.243	84	55916	4.626	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.600%
26) 1,2-Dichloroethane-d4	4.937	65	29771	5.493	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.800%
32) Benzene-d6	4.947	84	100136	4.463	ug/L	-0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.200%
36) 1,2-Dichloropropane-d6	5.989	67	36952	4.939	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.800%
41) Toluene-d8	7.239	98	95392	4.762	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.200%
43) trans-1,3-Dichloroprop...	7.558	79	12205	4.719	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.400%
46) 2-Hexanone-d5	8.043	63	58273	57.387	ug/L	0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	114.780%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	23312	5.333	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.600%
66) 1,2-Dichlorobenzene-d4	11.561	152	36695	4.996	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	100.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.275	62	64532	6.069	ug/L	99
8) Chloroethane	1.625	64	4968	0.769	ug/L #	55
15) Methyl Acetate	2.359	43	602	0.227	ug/L #	56
18) trans-1,2-Dichloroethene	2.680	96	2110	0.259	ug/L	79
19) 1,1-Dichloroethane	3.101	63	11498	0.711	ug/L	92
22) cis-1,2-Dichloroethene	3.802	96	120481	14.137	ug/L	97
27) 1,2-Dichloroethane	5.037	62	1677	0.198	ug/L	97
30) Cyclohexane	4.561	56	5530	0.350	ug/L	87
33) Benzene	4.995	78	43660	1.322	ug/L	100
35) Methylcyclohexane	6.027	83	3917	0.263	ug/L #	60
37) 1,2-Dichloropropane	5.985	63	4133	0.504	ug/L #	83
38) Bromodichloromethane	6.477	83	1090	0.109	ug/L #	25
39) cis-1,3-Dichloropropene	6.911	75	1088	0.093	ug/L #	60
42) Toluene	7.317	91	5446	0.156	ug/L	94
45) 1,1,2-Trichloroethane	7.709	97	2342	0.514	ug/L #	18
51) Chlorobenzene	8.812	112	84487	3.950	ug/L	98
53) m,p-Xylene	9.075	106	5062	0.339	ug/L	95
54) o-Xylene	9.484	106	801	0.055	ug/L	99
60) Isopropylbenzene	9.866	105	6973	0.184	ug/L #	85

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR011224WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Jan 17 00:08:33 2024
Response via : Initial Calibration

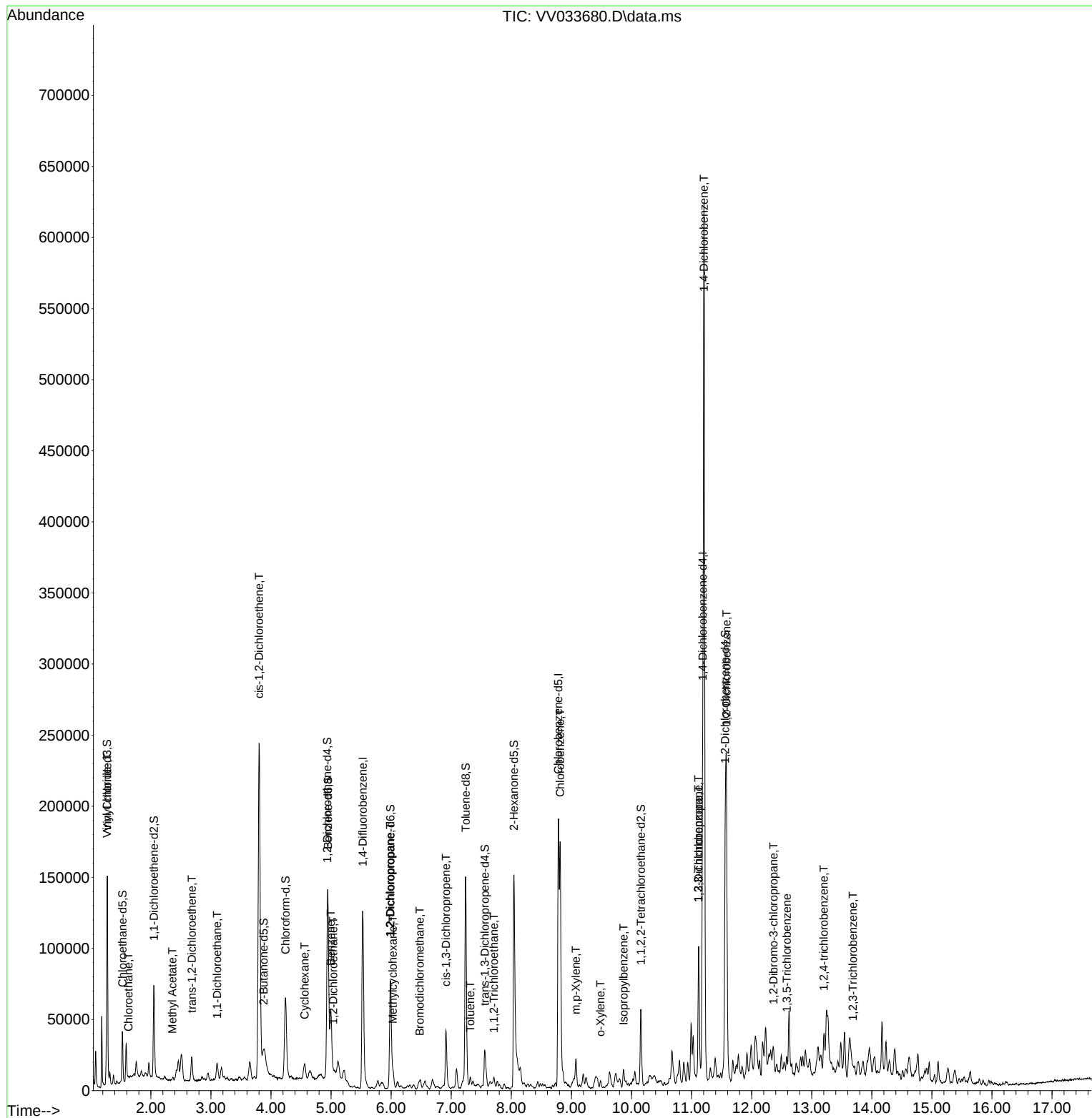
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) 1,2,3-Trichloropropane	11.117	75	12263	3.198	ug/L #	64
64) 1,3-Dichlorobenzene	11.117	146	34598	2.067	ug/L	98
65) 1,4-Dichlorobenzene	11.207	146	221980	13.545	ug/L	98
67) 1,2-Dichlorobenzene	11.580	146	63490	4.365	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.365	75	323	0.383	ug/L #	5
69) 1,3,5-Trichlorobenzene	12.583	180	3032	0.233	ug/L	95
70) 1,2,4-trichlorobenzene	13.201	180	4980	0.460	ug/L #	73
72) 1,2,3-Trichlorobenzene	13.683	180	661	0.076	ug/L #	1

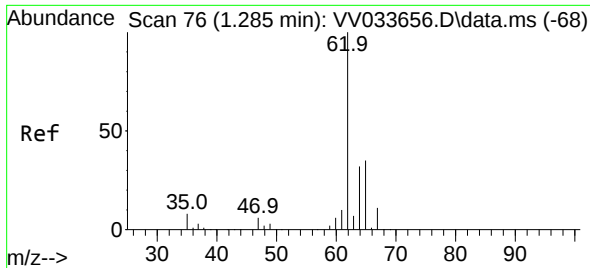
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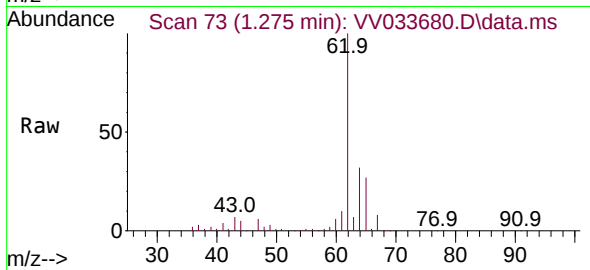


#5
 Vinyl chloride
 Concen: 6.069 ug/L
 RT: 1.275 min Scan# 71
 Delta R.T. -0.010 min
 Lab File: VV033680.D
 Acq: 16 Jan 2024 18:56

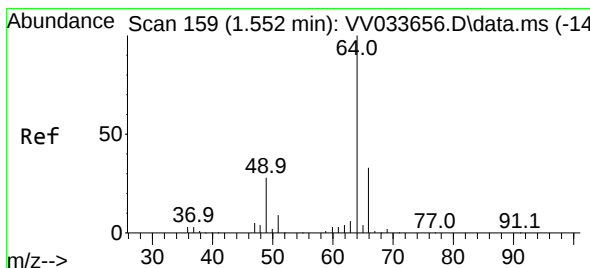
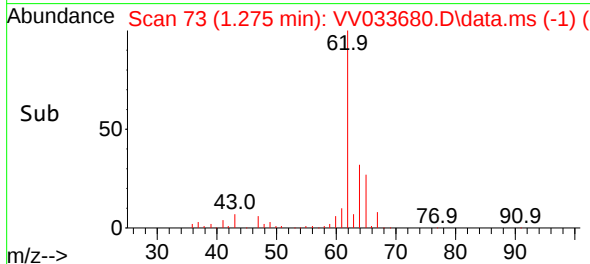
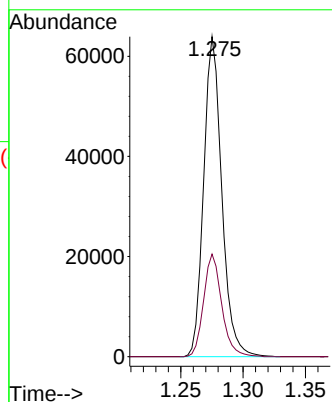
Instrument :

MSVOA_V

ClientSampleId :

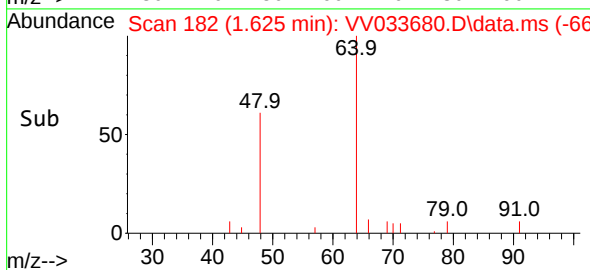
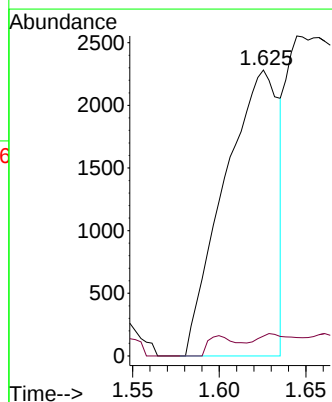
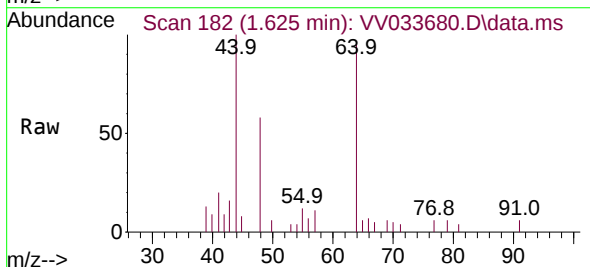


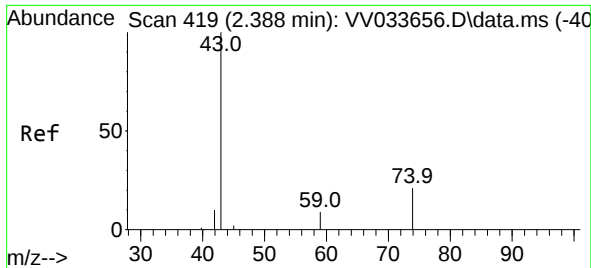
Tgt Ion: 62 Resp: 64532
 Ion Ratio Lower Upper
 62 100
 64 32.1 23.0 42.8



#8
 Chloroethane
 Concen: 0.769 ug/L
 RT: 1.625 min Scan# 182
 Delta R.T. 0.074 min
 Lab File: VV033680.D
 Acq: 16 Jan 2024 18:56

Tgt Ion: 64 Resp: 4968
 Ion Ratio Lower Upper
 64 100
 66 6.9 22.6 42.0#

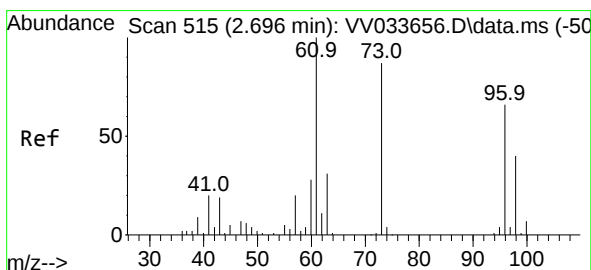
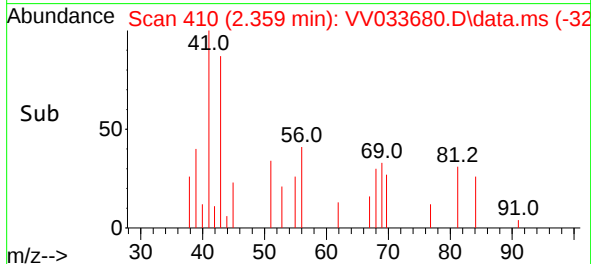
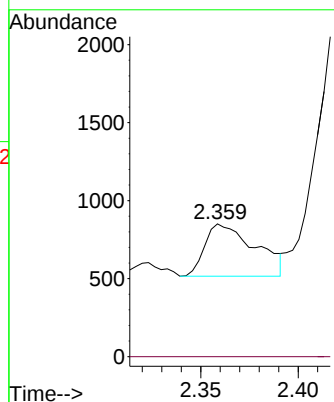
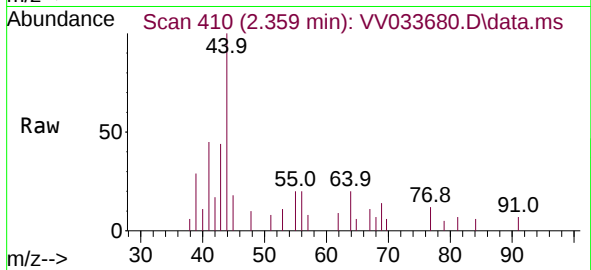




#15
Methyl Acetate
Concen: 0.227 ug/L
RT: 2.359 min Scan# 41
Delta R.T. -0.029 min
Lab File: VV033680.D
Acq: 16 Jan 2024 18:56

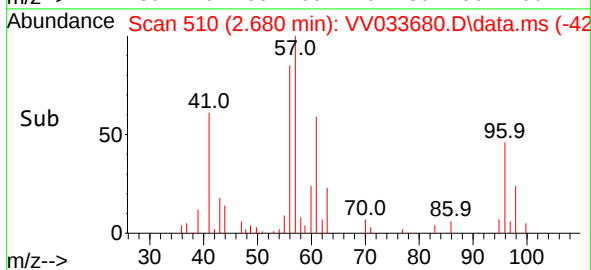
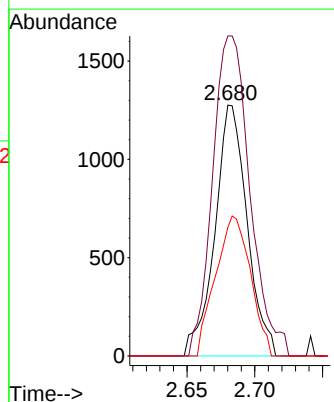
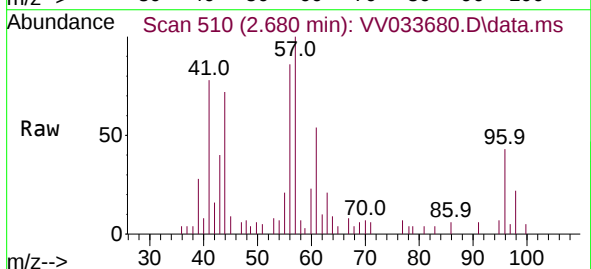
Instrument :
MSVOA_V
ClientSampleId :

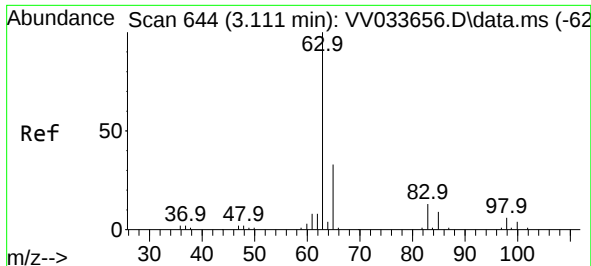
Tgt Ion: 43 Resp: 602
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#



#18
trans-1,2-Dichloroethene
Concen: 0.259 ug/L
RT: 2.680 min Scan# 510
Delta R.T. -0.016 min
Lab File: VV033680.D
Acq: 16 Jan 2024 18:56

Tgt Ion: 96 Resp: 2110
Ion Ratio Lower Upper
96 100
61 127.6 110.4 205.0
98 51.3 44.1 81.9

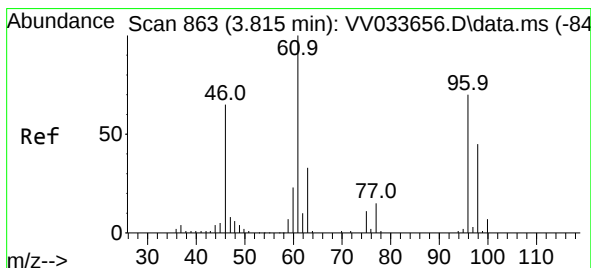
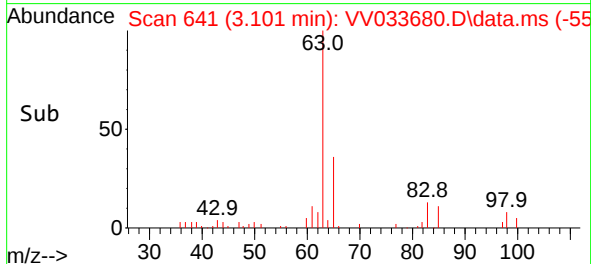
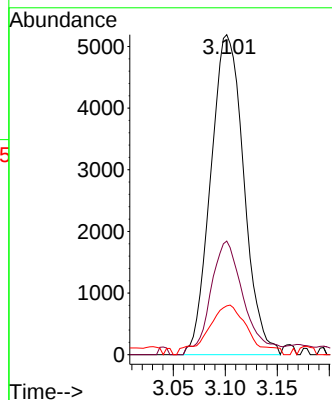
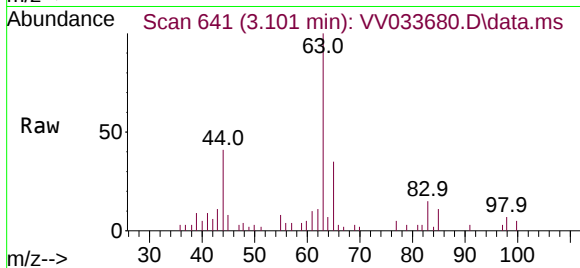




#19
1,1-Dichloroethane
Concen: 0.711 ug/L
RT: 3.101 min Scan# 641
Delta R.T. -0.010 min
Lab File: VV033680.D
Acq: 16 Jan 2024 18:56

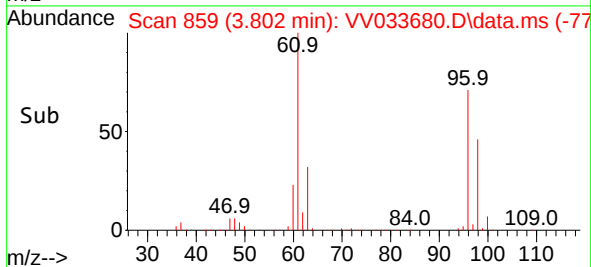
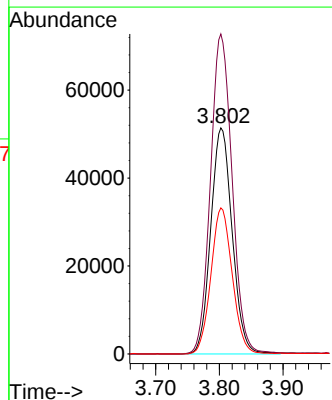
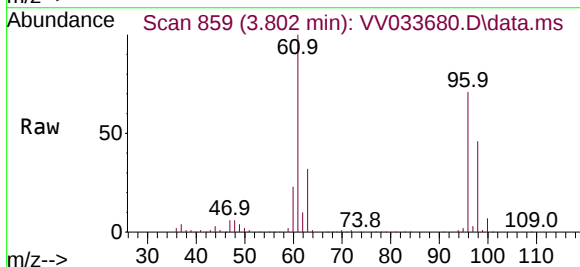
Instrument :
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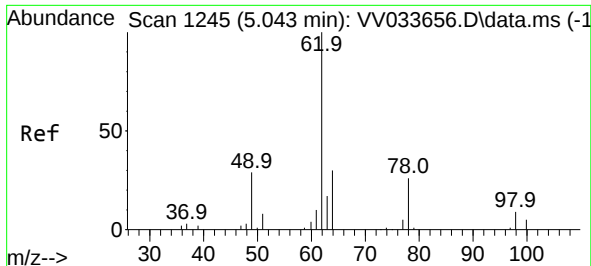
Tgt Ion: 63 Resp: 11498
Ion Ratio Lower Upper
63 100
65 35.5 21.6 40.2
83 15.3 9.1 16.9



#22
cis-1,2-Dichloroethene
Concen: 14.137 ug/L
RT: 3.802 min Scan# 859
Delta R.T. -0.013 min
Lab File: VV033680.D
Acq: 16 Jan 2024 18:56

Tgt Ion: 96 Resp: 120481
Ion Ratio Lower Upper
96 100
61 141.5 97.1 180.3
98 64.6 42.6 79.0

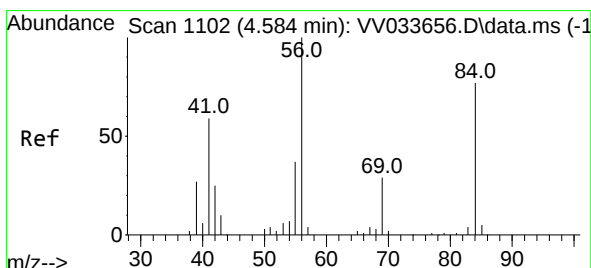
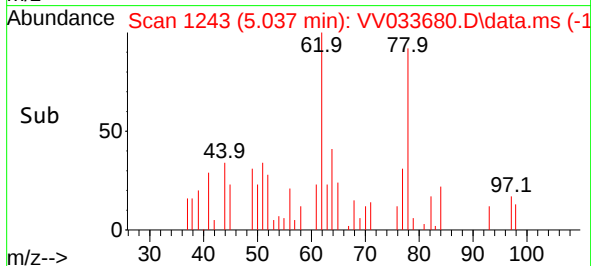
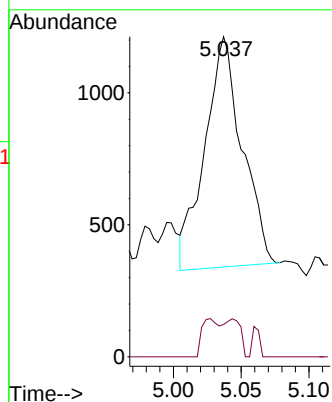
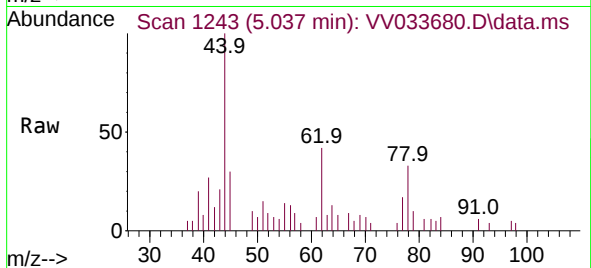




#27
1,2-Dichloroethane
Concen: 0.198 ug/L
RT: 5.037 min Scan# 11
Delta R.T. -0.007 min
Lab File: VV033680.D
Acq: 16 Jan 2024 18:56

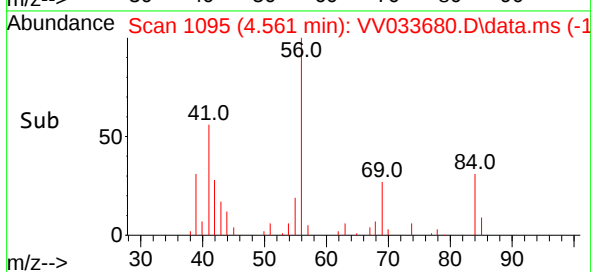
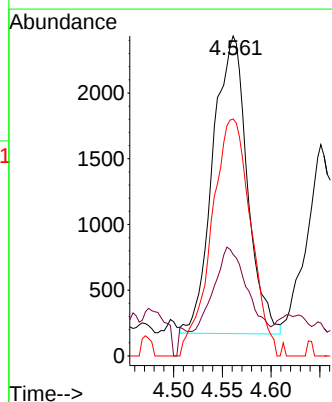
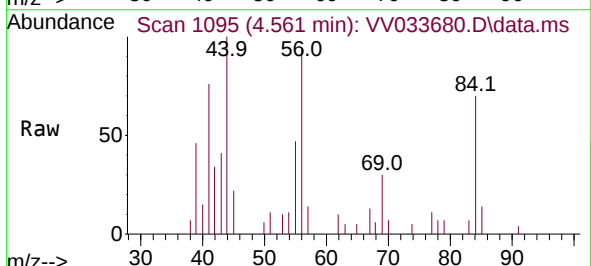
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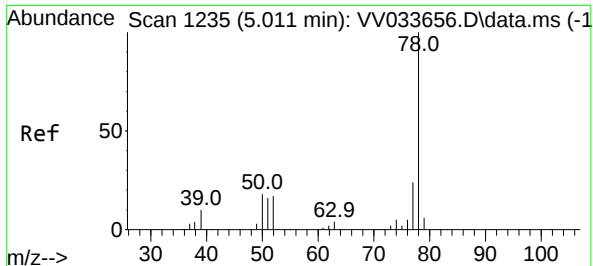
Tgt Ion: 62 Resp: 1677
Ion Ratio Lower Upper
62 100
98 10.1 7.0 10.6



#30
Cyclohexane
Concen: 0.350 ug/L
RT: 4.561 min Scan# 1095
Delta R.T. -0.023 min
Lab File: VV033680.D
Acq: 16 Jan 2024 18:56

Tgt Ion: 56 Resp: 5530
Ion Ratio Lower Upper
56 100
69 26.1 23.3 34.9
84 90.8 61.7 92.5

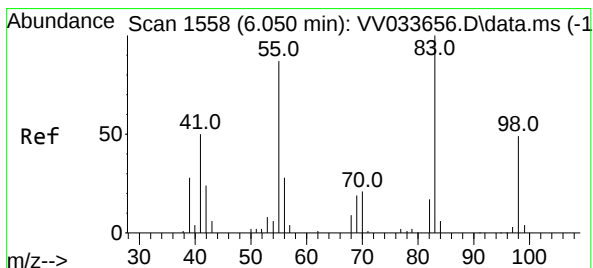
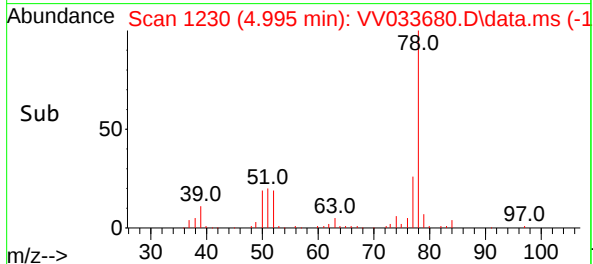
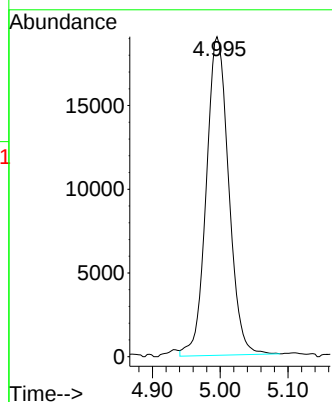
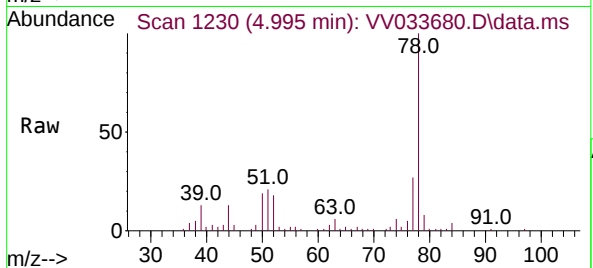




#33
Benzene
Concen: 1.322 ug/L
RT: 4.995 min Scan# 11
Delta R.T. -0.016 min
Lab File: VV033680.D
Acq: 16 Jan 2024 18:56

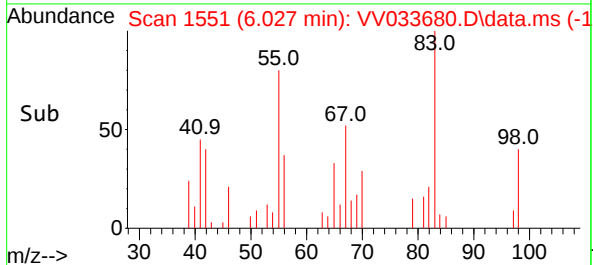
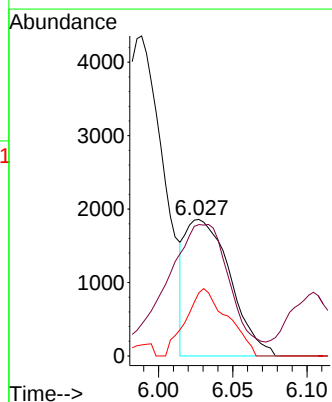
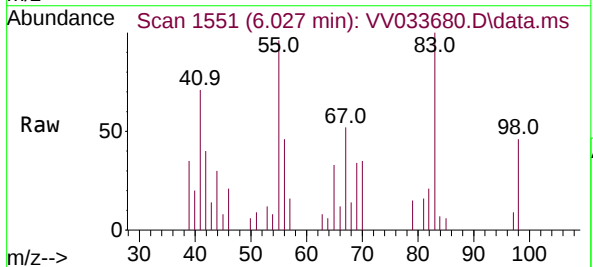
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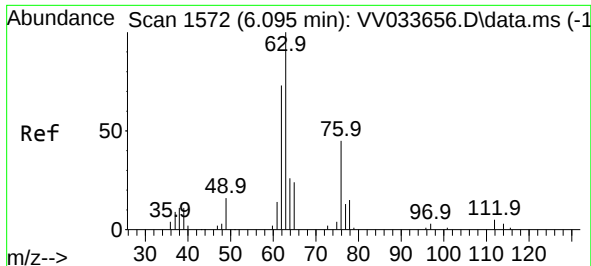
Tgt Ion: 78 Resp: 43660



#35
Methylcyclohexane
Concen: 0.263 ug/L
RT: 6.027 min Scan# 1551
Delta R.T. -0.023 min
Lab File: VV033680.D
Acq: 16 Jan 2024 18:56

Tgt Ion: 83 Resp: 3917
Ion Ratio Lower Upper
83 100
55 140.9 68.7 103.1#
98 45.6 38.3 57.5





#37

1,2-Dichloropropane

Concen: 0.504 ug/L

RT: 5.985 min Scan# 1

Delta R.T. -0.109 min

Lab File: VV033680.D

Acq: 16 Jan 2024 18:56

Instrument :

MSVOA_V

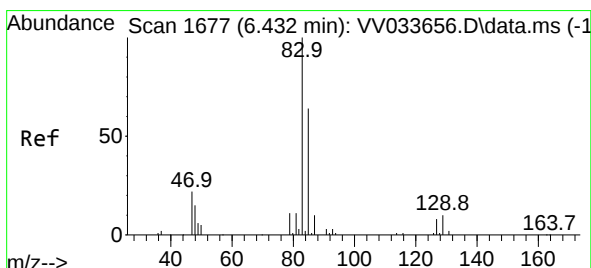
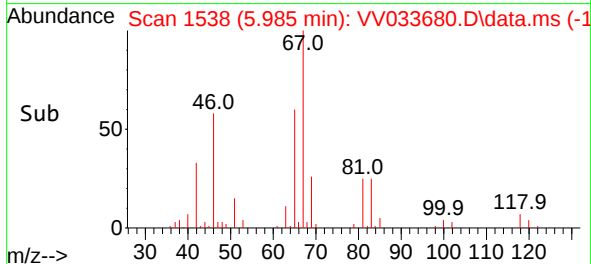
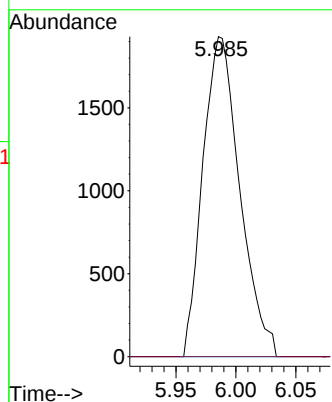
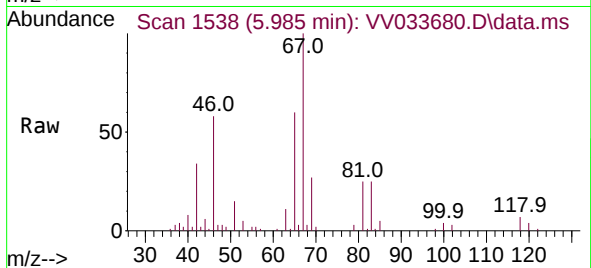
ClientSampleId :

Tgt Ion: 63 Resp: 4133

Ion Ratio Lower Upper

63 100

112 9.8 3.4 5.2#



#38

Bromodichloromethane

Concen: 0.109 ug/L

RT: 6.477 min Scan# 1691

Delta R.T. 0.045 min

Lab File: VV033680.D

Acq: 16 Jan 2024 18:56

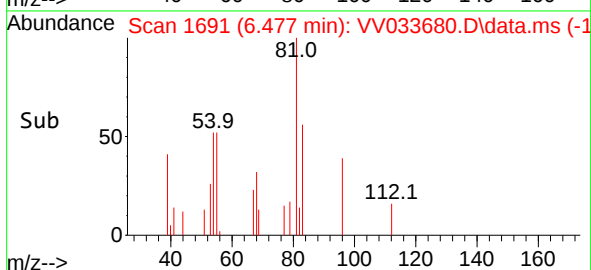
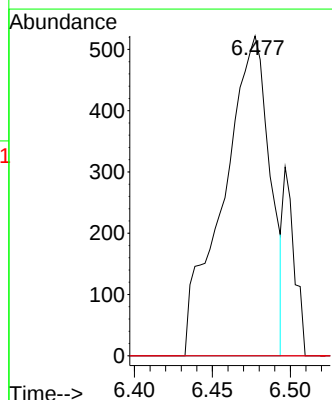
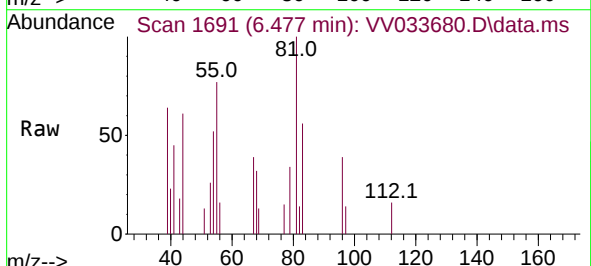
Tgt Ion: 83 Resp: 1090

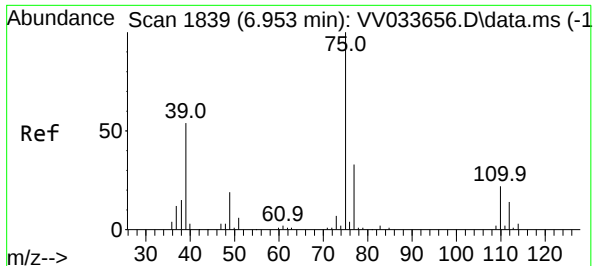
Ion Ratio Lower Upper

83 100

85 0.0 45.1 83.9#

127 0.0 6.6 9.8#





#39

cis-1,3-Dichloropropene

Concen: 0.093 ug/L

RT: 6.911 min Scan# 1826

Delta R.T. -0.042 min

Lab File: VV033680.D

Acq: 16 Jan 2024 18:56

Instrument :

MSVOA_V

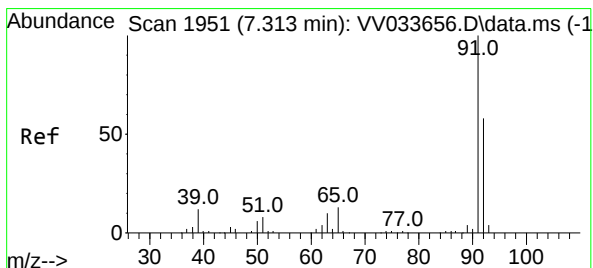
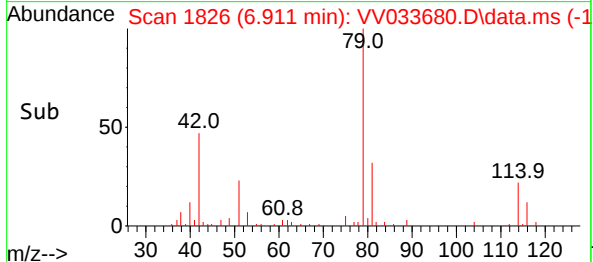
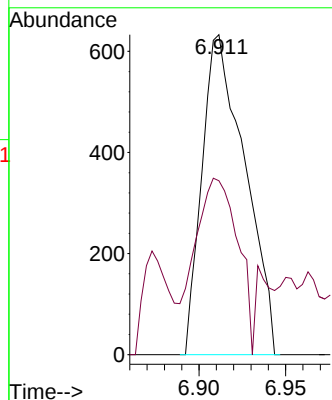
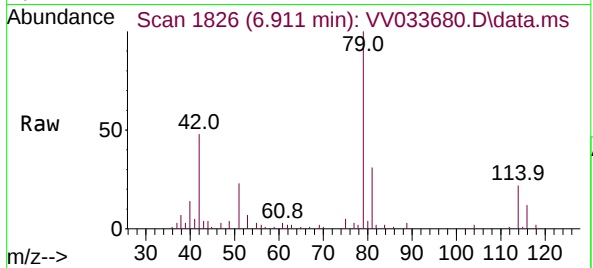
ClientSampleId :

Tgt Ion: 75 Resp: 1088

Ion Ratio Lower Upper

75 100

77 54.3 22.5 41.7#



#42

Toluene

Concen: 0.156 ug/L

RT: 7.317 min Scan# 1952

Delta R.T. 0.003 min

Lab File: VV033680.D

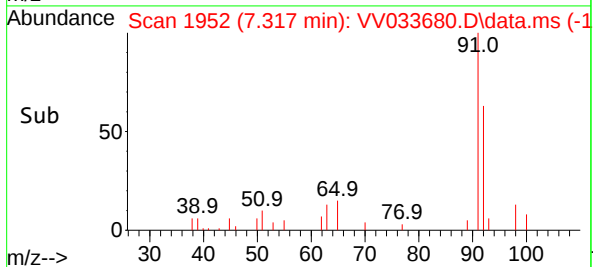
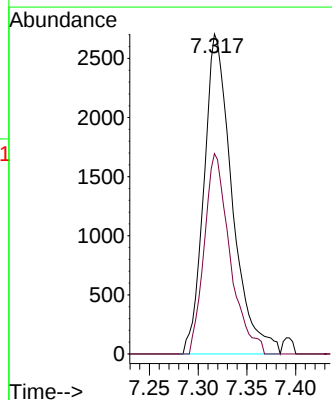
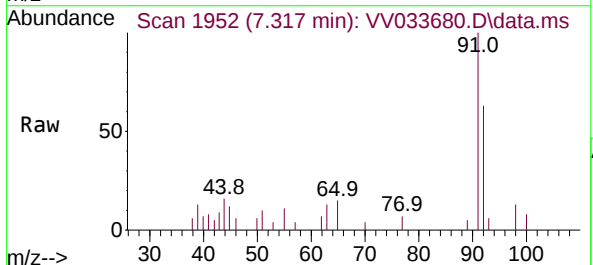
Acq: 16 Jan 2024 18:56

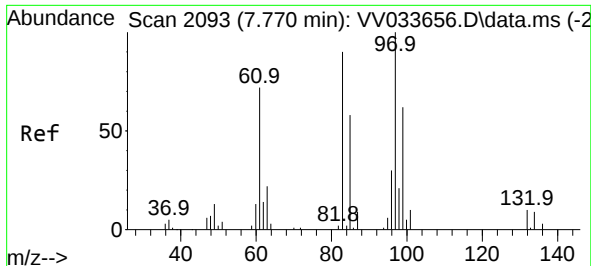
Tgt Ion: 91 Resp: 5446

Ion Ratio Lower Upper

91 100

92 62.6 40.5 75.3

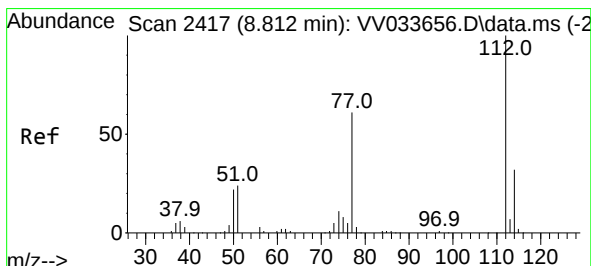
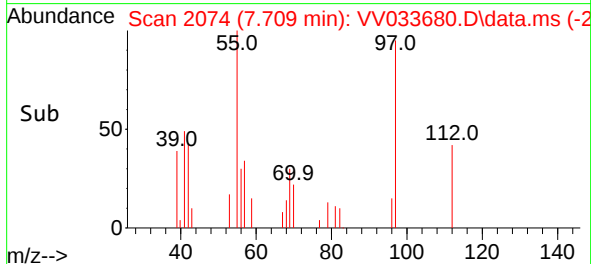
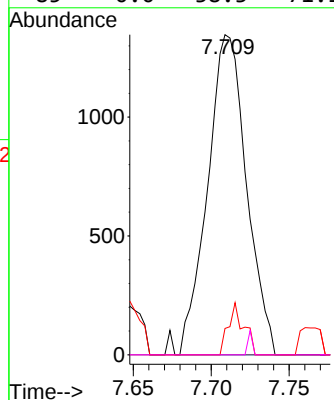
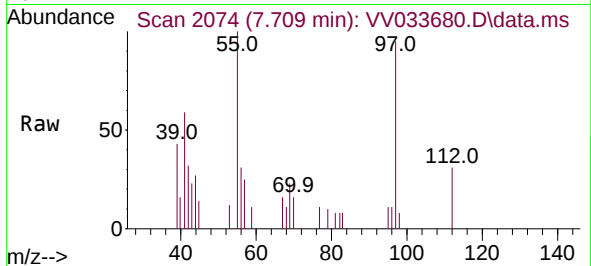




#45
 1,1,2-Trichloroethane
 Concen: 0.514 ug/L
 RT: 7.709 min Scan# 2093
 Delta R.T. -0.061 min
 Lab File: VV033680.D
 Acq: 16 Jan 2024 18:56

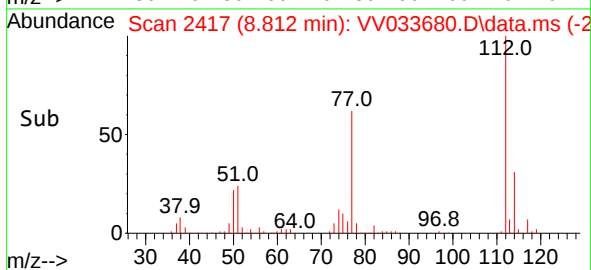
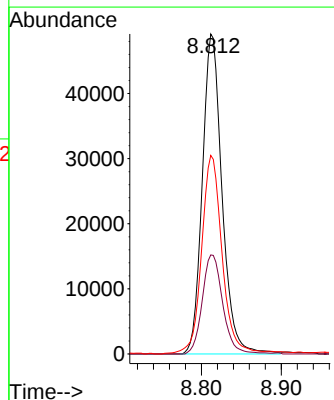
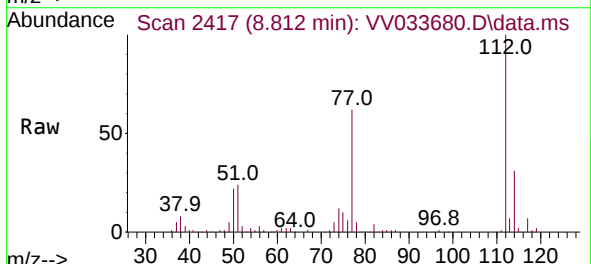
Instrument :
 MSVOA_V
 ClientSampleId :

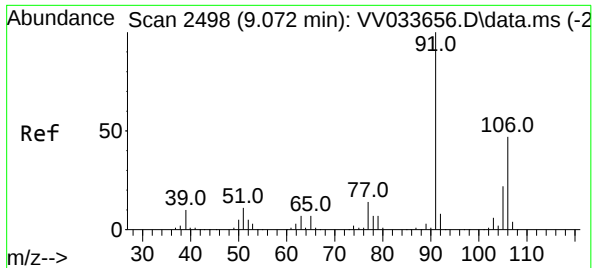
Tgt Ion: 97	Resp:	2342
Ion	Ratio	Lower Upper
97	100	
99	0.0	44.9 83.3#
83	8.2	60.5 112.3#
85	0.0	38.3 71.1#



#51
 Chlorobenzene
 Concen: 3.950 ug/L
 RT: 8.812 min Scan# 2417
 Delta R.T. -0.000 min
 Lab File: VV033680.D
 Acq: 16 Jan 2024 18:56

Tgt Ion: 112	Resp:	84487
Ion	Ratio	Lower Upper
112	100	
114	31.0	22.9 42.5
77	62.0	50.8 76.2

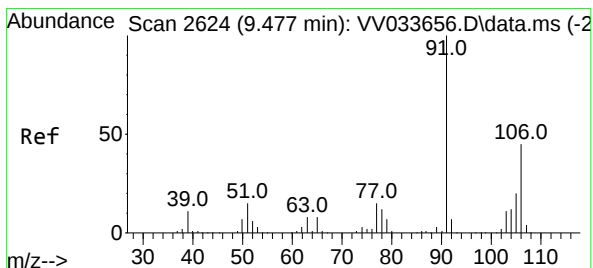
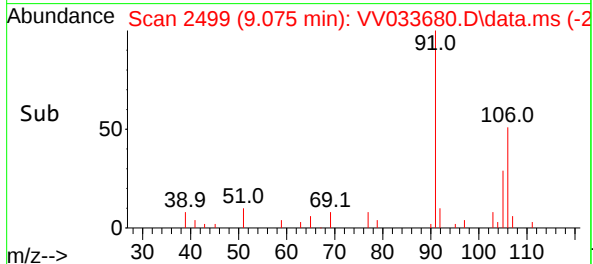
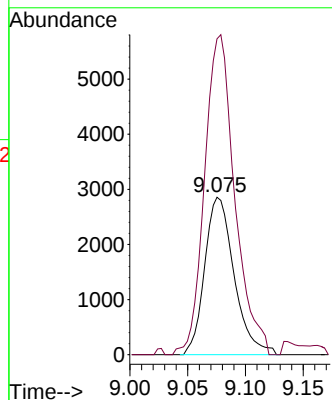
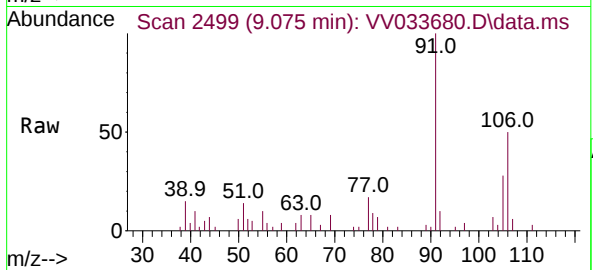




#53
m,p-Xylene
Concen: 0.339 ug/L
RT: 9.075 min Scan# 2498
Delta R.T. 0.003 min
Lab File: VV033680.D
Acq: 16 Jan 2024 18:56

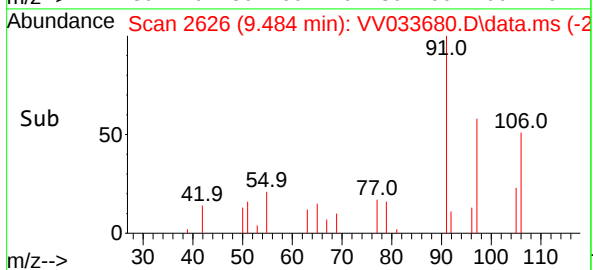
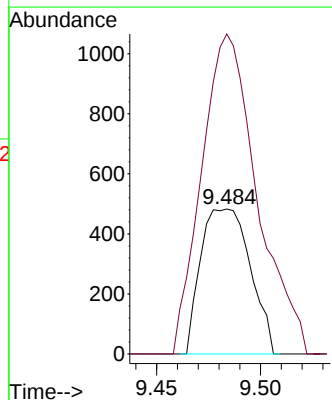
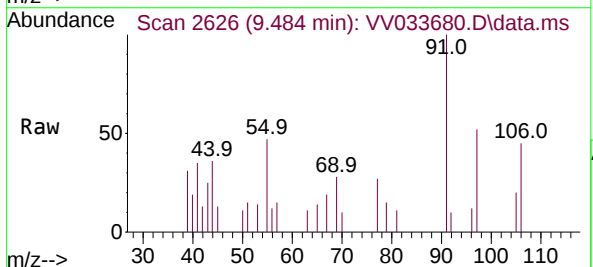
Instrument :
MSVOA_V
ClientSampleId :

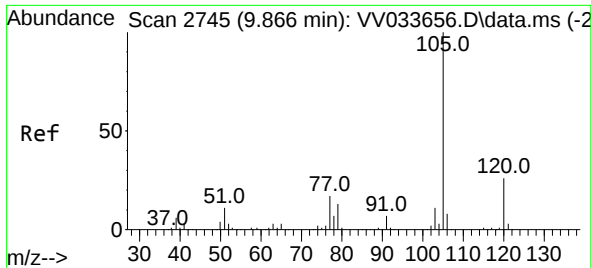
Tgt Ion:106 Resp: 5062
Ion Ratio Lower Upper
106 100
91 200.6 146.2 271.4



#54
o-Xylene
Concen: 0.055 ug/L
RT: 9.484 min Scan# 2626
Delta R.T. 0.006 min
Lab File: VV033680.D
Acq: 16 Jan 2024 18:56

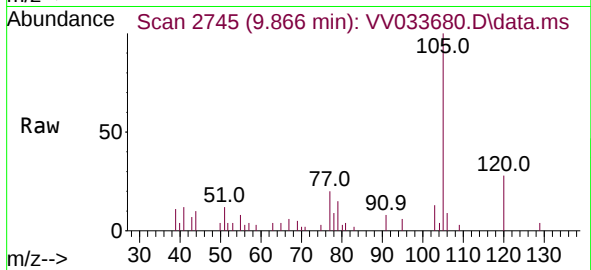
Tgt Ion:106 Resp: 801
Ion Ratio Lower Upper
106 100
91 220.7 156.0 289.6



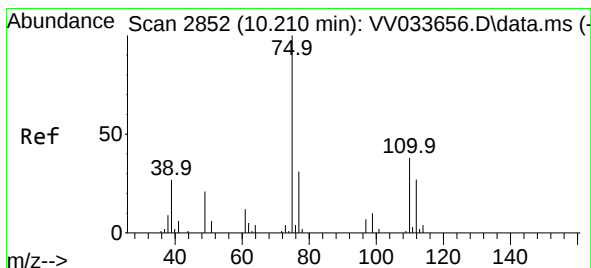
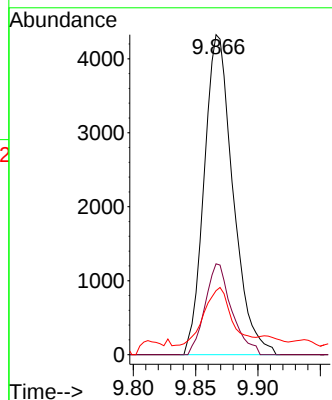
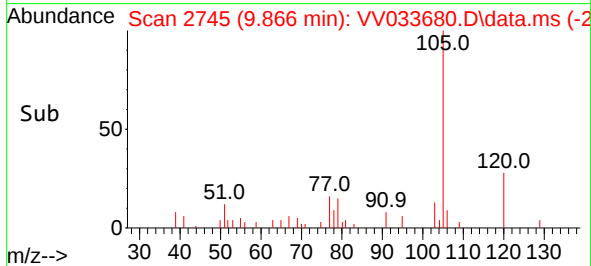


#60
Isopropylbenzene
Concen: 0.184 ug/L
RT: 9.866 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV033680.D
Acq: 16 Jan 2024 18:56

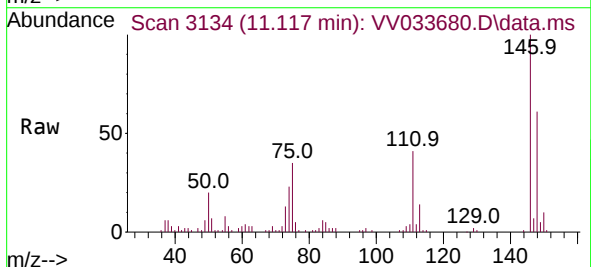
Instrument :
MSVOA_V
ClientSampleId :



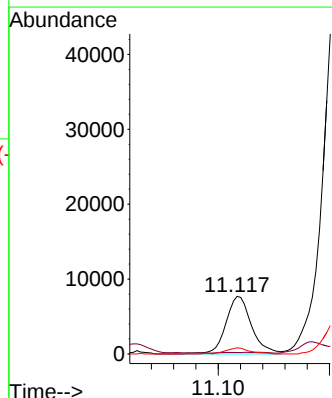
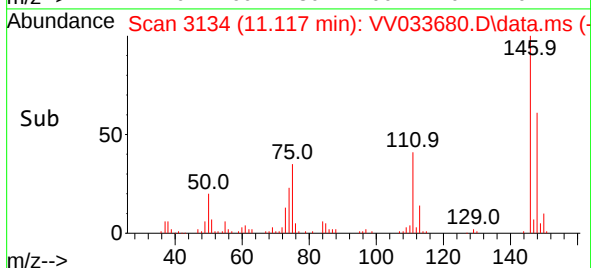
Tgt Ion:105 Resp: 6973
Ion Ratio Lower Upper
105 100
120 26.1 21.0 31.6
77 0.0 13.4 20.0#

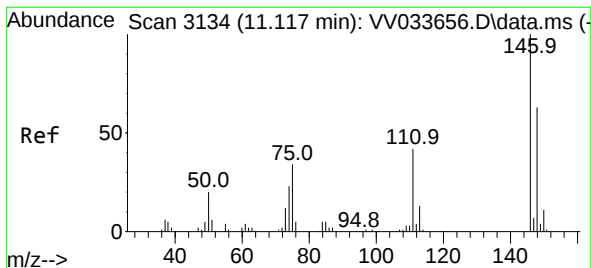


#61
1,2,3-Trichloropropane
Concen: 3.198 ug/L
RT: 11.117 min Scan# 3134
Delta R.T. 0.907 min
Lab File: VV033680.D
Acq: 16 Jan 2024 18:56



Tgt Ion: 75 Resp: 12263
Ion Ratio Lower Upper
75 100
77 15.9 24.7 37.1#
110 9.7 28.0 42.0#





#64

1,3-Dichlorobenzene

Concen: 2.067 ug/L

RT: 11.117 min Scan# 3134

Delta R.T. -0.000 min

Lab File: VV033680.D

Acq: 16 Jan 2024 18:56

Instrument :

MSVOA_V

ClientSampleId :

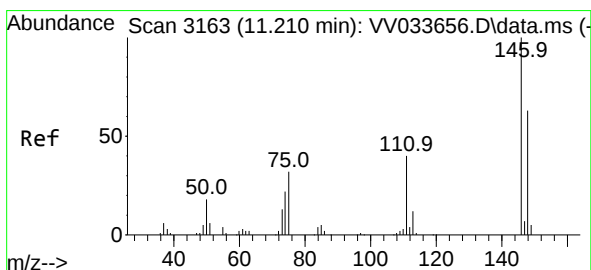
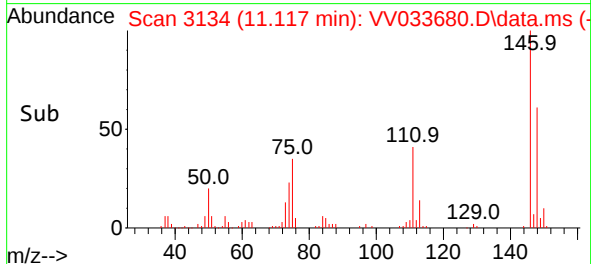
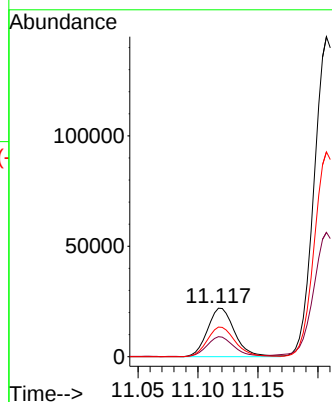
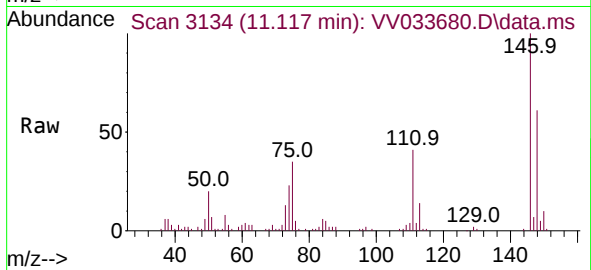
Tgt Ion:146 Resp: 34598

Ion Ratio Lower Upper

146 100

111 41.1 29.2 54.2

148 60.8 44.1 81.9



#65

1,4-Dichlorobenzene

Concen: 13.545 ug/L

RT: 11.207 min Scan# 3162

Delta R.T. -0.003 min

Lab File: VV033680.D

Acq: 16 Jan 2024 18:56

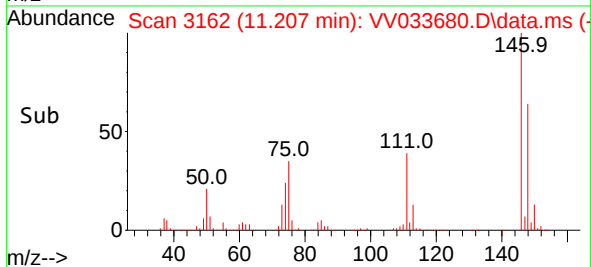
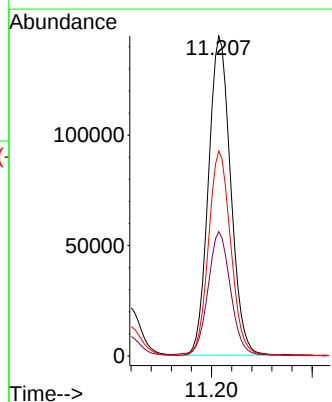
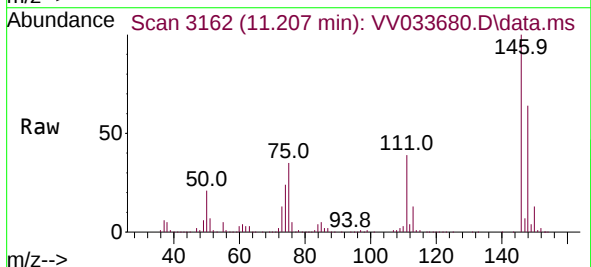
Tgt Ion:146 Resp: 221980

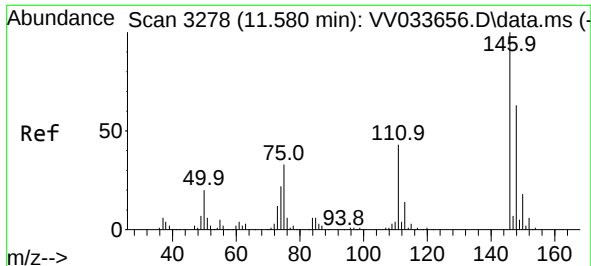
Ion Ratio Lower Upper

146 100

111 38.9 27.5 51.1

148 64.0 43.3 80.5





#67

1,2-Dichlorobenzene

Concen: 4.365 ug/L

RT: 11.580 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV033680.D

Acq: 16 Jan 2024 18:56

Instrument :

MSVOA_V

ClientSampleId :

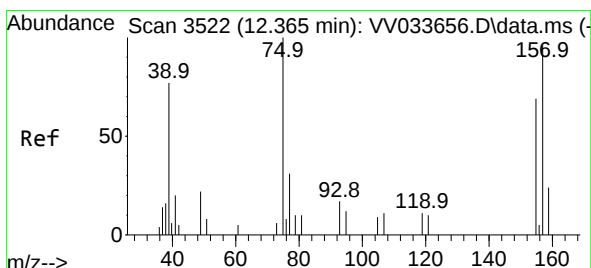
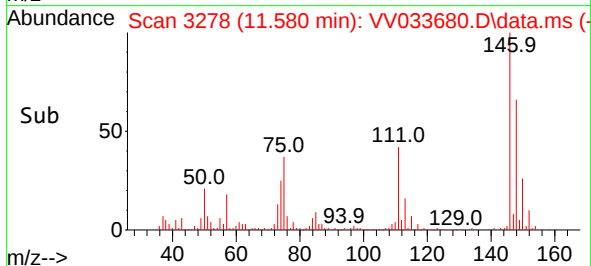
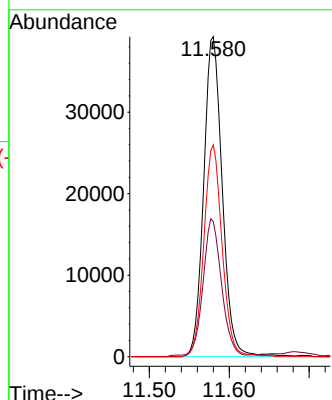
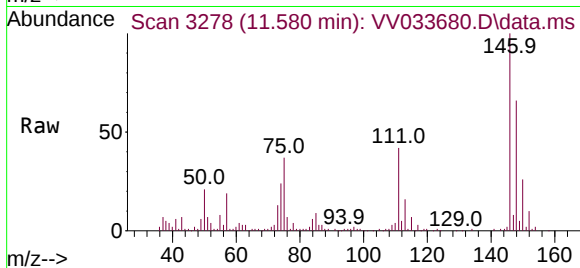
Tgt Ion:146 Resp: 63490

Ion Ratio Lower Upper

146 100

111 42.2 36.1 54.1

148 66.2 52.2 78.2



#68

1,2-Dibromo-3-chloropropane

Concen: 0.383 ug/L

RT: 12.365 min Scan# 3522

Delta R.T. -0.000 min

Lab File: VV033680.D

Acq: 16 Jan 2024 18:56

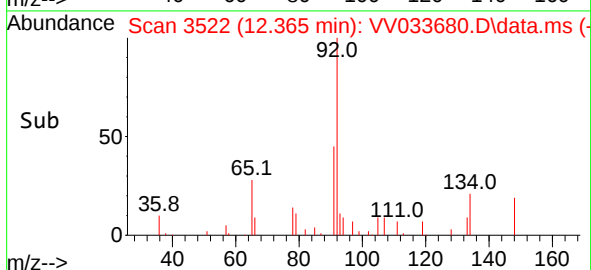
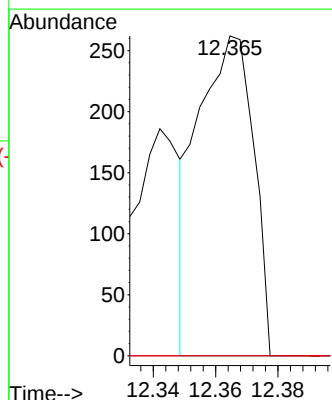
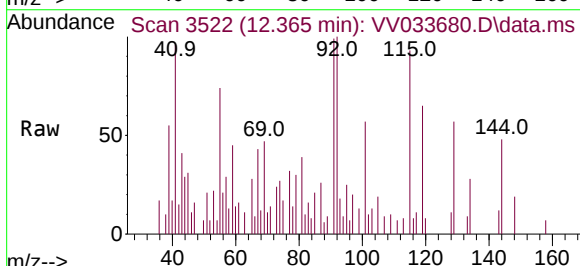
Tgt Ion: 75 Resp: 323

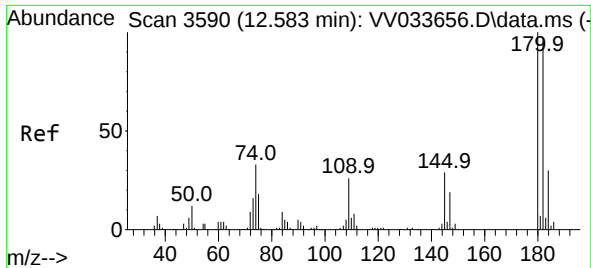
Ion Ratio Lower Upper

75 100

155 0.0 65.3 97.9#

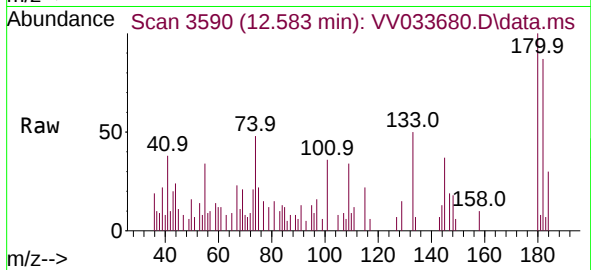
157 0.0 75.4 113.0#



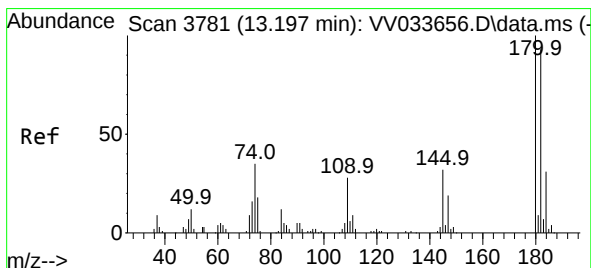
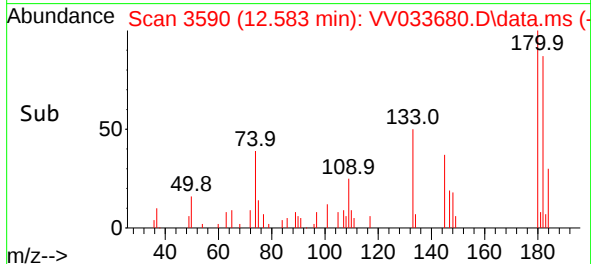
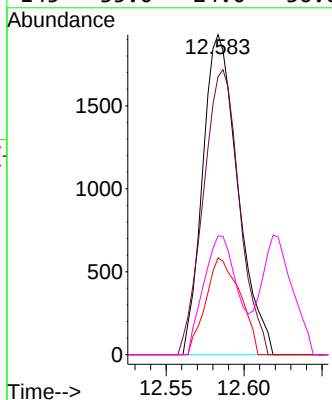


#69
 1,3,5-Trichlorobenzene
 Concen: 0.233 ug/L
 RT: 12.583 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV033680.D
 Acq: 16 Jan 2024 18:56

Instrument :
 MSVOA_V
 ClientSampleId :

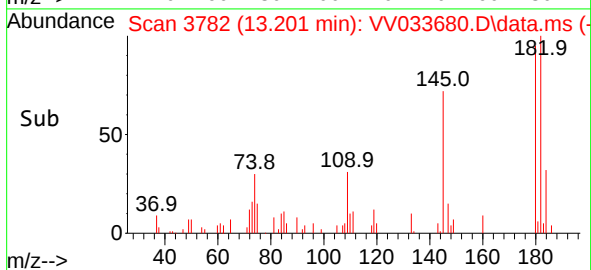
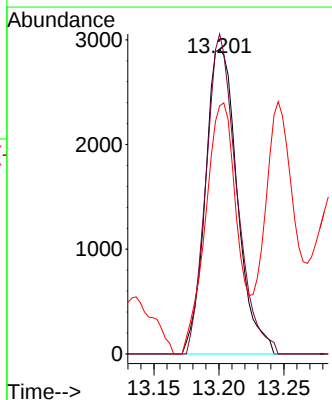
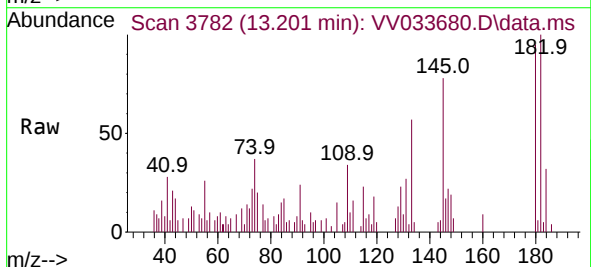


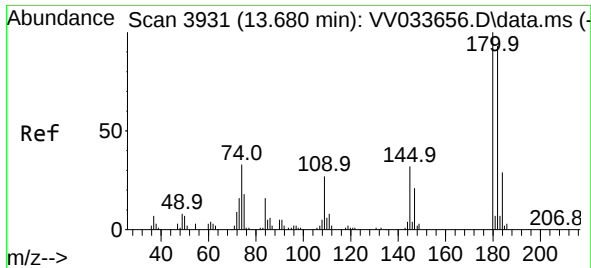
Tgt Ion:180 Resp: 3032
 Ion Ratio Lower Upper
 180 100
 182 91.0 76.4 114.6
 184 29.5 24.2 36.2
 145 35.0 24.0 36.0



#70
 1,2,4-trichlorobenzene
 Concen: 0.460 ug/L
 RT: 13.201 min Scan# 3782
 Delta R.T. 0.003 min
 Lab File: VV033680.D
 Acq: 16 Jan 2024 18:56

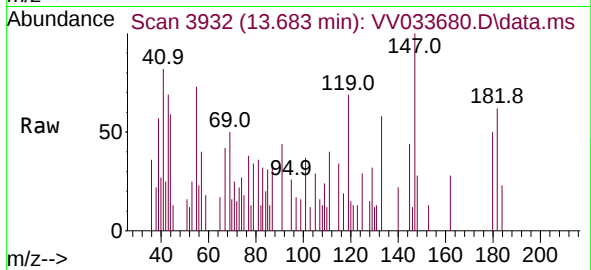
Tgt Ion:180 Resp: 4980
 Ion Ratio Lower Upper
 180 100
 182 100.4 75.0 112.6
 145 79.7 24.8 37.2#





#72
 1,2,3-Trichlorobenzene
 Concen: 0.076 ug/L
 RT: 13.683 min Scan# 3931
 Delta R.T. 0.003 min
 Lab File: VV033680.D
 Acq: 16 Jan 2024 18:56

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:	180	Resp:	661
Ion	Ratio	Lower	Upper
180	100		
182	102.3	75.0	112.6
145	262.9	26.6	40.0#

