

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW011524\
 Data File : VW033651.D
 Acq On : 15 Jan 2024 18:33
 Operator : SY/MD
 Sample : P1131-19
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jan 16 03:48:29 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	5.532	114	113192	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	102359	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	52607	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	23700	3.829	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.600%
7) Chloroethane-d5	1.526	69	24517	4.466	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.400%
11) 1,1-Dichloroethene-d2	2.053	65	11333	4.063	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.200%
20) 2-Butanone-d5	3.896	46	50768	33.546	ug/L	0.08
Spiked Amount	50.000	Range	40 - 130	Recovery	=	67.100%
24) Chloroform-d	4.246	84	60735	4.537	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.800%
26) 1,2-Dichloroethane-d4	4.944	65	27962	4.659	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.200%
32) Benzene-d6	4.957	84	114529	4.637	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.800%
36) 1,2-Dichloropropane-d6	5.989	67	38138	4.632	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.600%
41) Toluene-d8	7.243	98	102835	4.664	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.200%
43) trans-1,3-Dichloroprop...	7.558	79	13015	4.572	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.400%
46) 2-Hexanone-d5	8.037	63	62643	56.048	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	112.100%
56) 1,1,2,2-Tetrachloroeth...	10.153	84	25142	5.226	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.600%
66) 1,2-Dichlorobenzene-d4	11.561	152	38915	4.818	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.400%
Target Compounds						
5) Vinyl chloride	1.275	62	44950	3.818	ug/L	88
8) Chloroethane	1.545	64	4991	0.698	ug/L #	66
15) Methyl Acetate	2.368	43	1661	0.566	ug/L #	56
18) trans-1,2-Dichloroethene	2.683	96	8919	0.990	ug/L	98
19) 1,1-Dichloroethane	3.105	63	131352	7.335	ug/L	98
21) 2-Butanone	4.027	43	14652	8.592	ug/L #	55
22) cis-1,2-Dichloroethene	3.806	96	485221	51.413	ug/L	97
27) 1,2-Dichloroethane	5.047	62	20604	2.199	ug/L	99
30) Cyclohexane	4.571	56	9676	0.556	ug/L #	96
33) Benzene	5.005	78	140242	3.859	ug/L	100
34) Trichloroethene	5.834	95	4840	0.500	ug/L	96
35) Methylcyclohexane	6.047	83	3242	0.198	ug/L #	59
37) 1,2-Dichloropropane	6.101	63	1060	0.117	ug/L #	1
38) Bromodichloromethane	6.484	83	2155	0.196	ug/L #	25
39) cis-1,3-Dichloropropene	6.918	75	1768	0.137	ug/L #	78
42) Toluene	7.323	91	5426	0.141	ug/L	97
44) trans-1,3-Dichloropropene	7.802	75	833	0.080	ug/L	90
45) 1,1,2-Trichloroethane	7.712	97	3469	0.692	ug/L #	20
51) Chlorobenzene	8.812	112	115682	4.913	ug/L	98

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

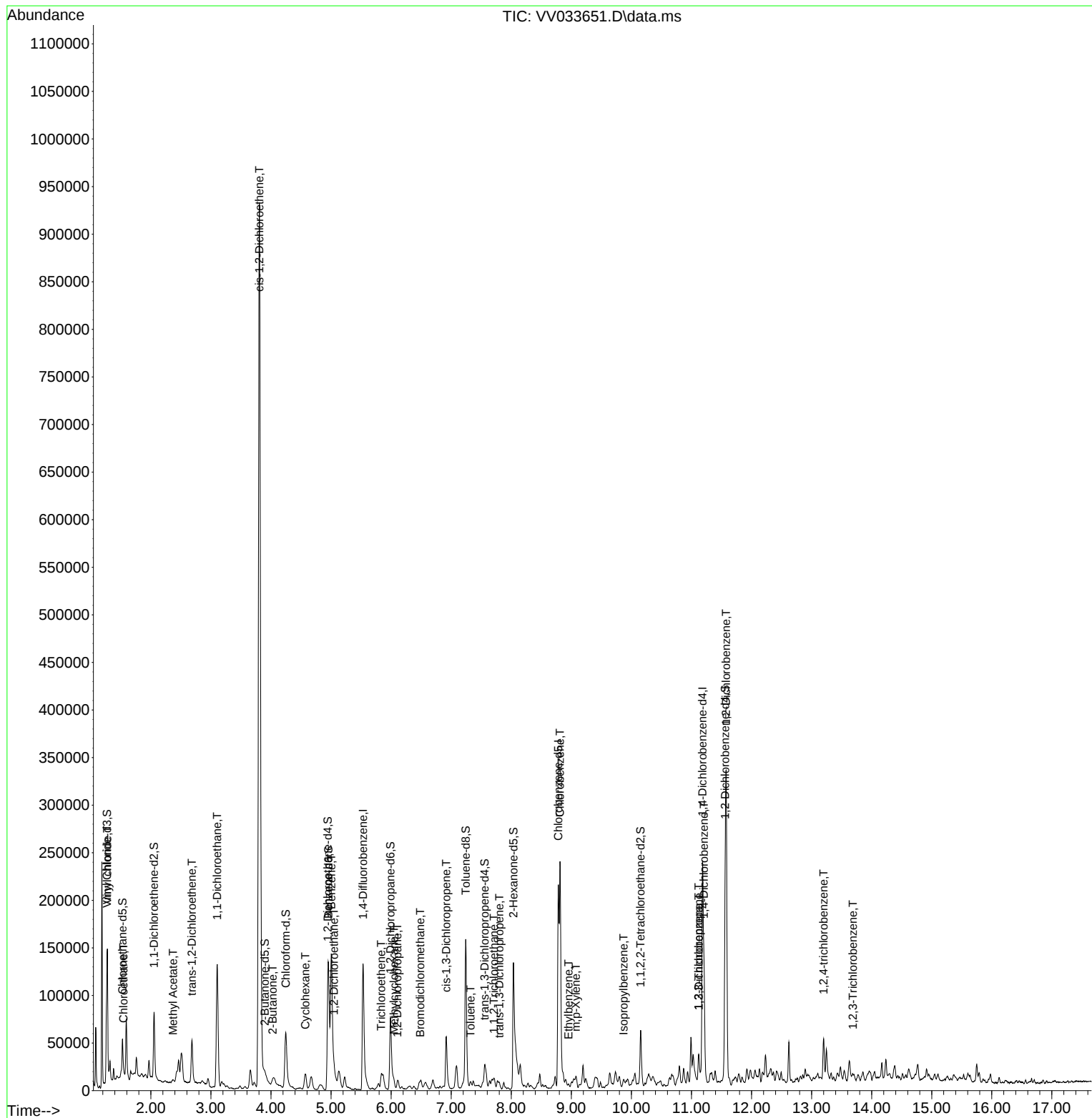
52) Ethylbenzene	8.953	91	2734	0.061	ug/L	89
53) m,p-Xylene	9.079	106	2293	0.140	ug/L	94
60) Isopropylbenzene	9.870	105	3745	0.090	ug/L #	79
61) 1,2,3-Trichloropropane	11.120	75	3333	0.790	ug/L #	55
64) 1,3-Dichlorobenzene	11.120	146	11117	0.604	ug/L	96
65) 1,4-Dichlorobenzene	11.210	146	44359	2.461	ug/L	99
67) 1,2-Dichlorobenzene	11.577	146	100778	6.300	ug/L	97
70) 1,2,4-trichlorobenzene	13.201	180	10338	0.868	ug/L #	90
72) 1,2,3-Trichlorobenzene	13.686	180	1149	0.120	ug/L #	10

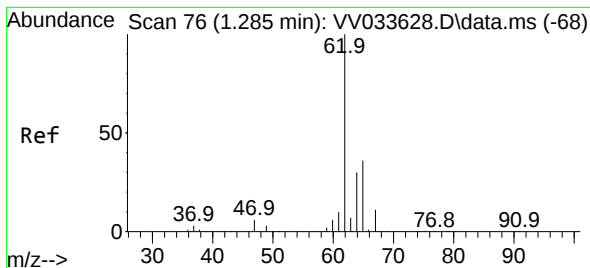
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 3.818 ug/L

RT: 1.275 min Scan# 71

Delta R.T. -0.010 min

Lab File: VV033651.D

Acq: 15 Jan 2024 18:33

Instrument :

MSVOA_V

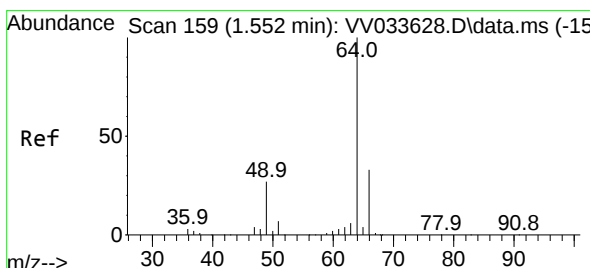
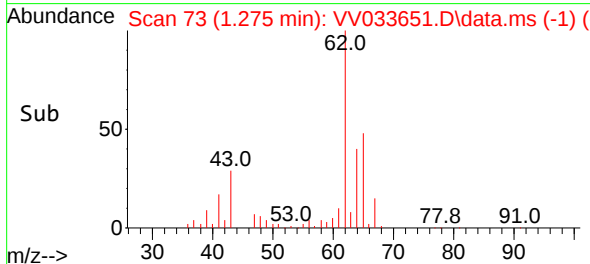
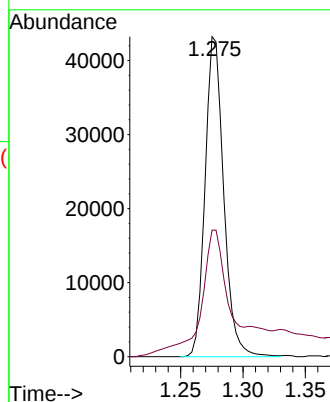
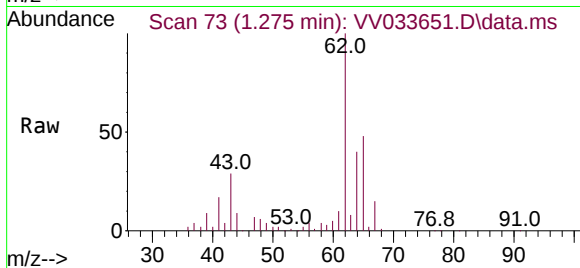
ClientSampleId :

Tgt Ion: 62 Resp: 44950

Ion Ratio Lower Upper

62 100

64 39.5 23.0 42.8



#8

Chloroethane

Concen: 0.698 ug/L

RT: 1.545 min Scan# 157

Delta R.T. -0.006 min

Lab File: VV033651.D

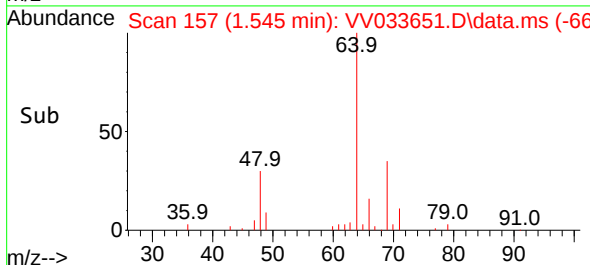
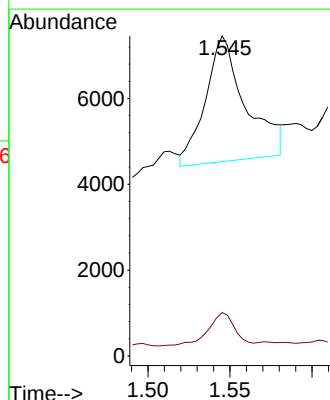
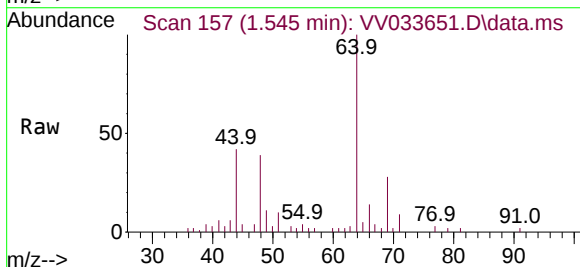
Acq: 15 Jan 2024 18:33

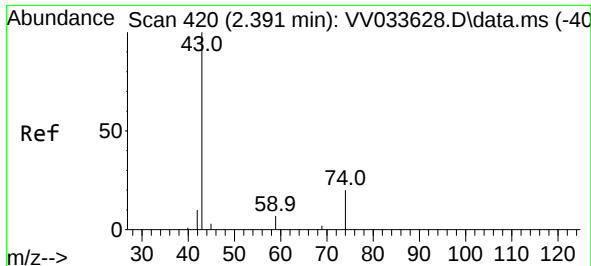
Tgt Ion: 64 Resp: 4991

Ion Ratio Lower Upper

64 100

66 13.5 22.6 42.0#

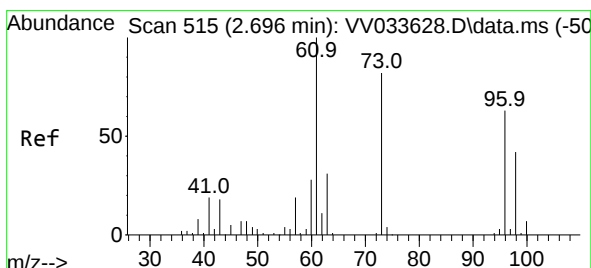
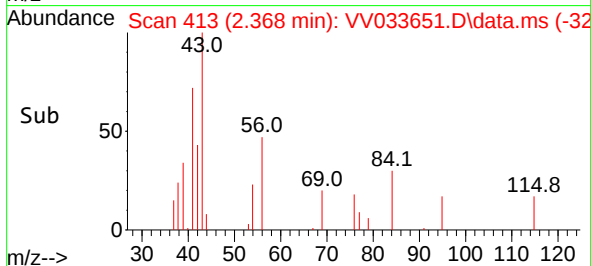
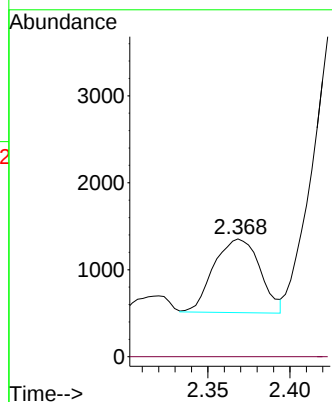
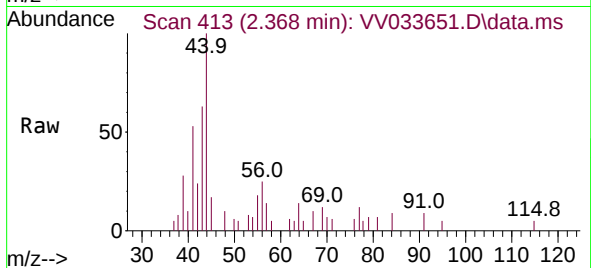




#15
Methyl Acetate
Concen: 0.566 ug/L
RT: 2.368 min Scan# 41
Delta R.T. -0.022 min
Lab File: VV033651.D
Acq: 15 Jan 2024 18:33

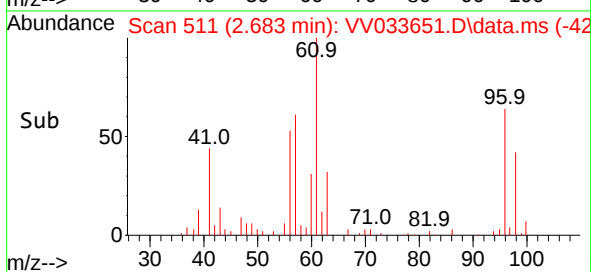
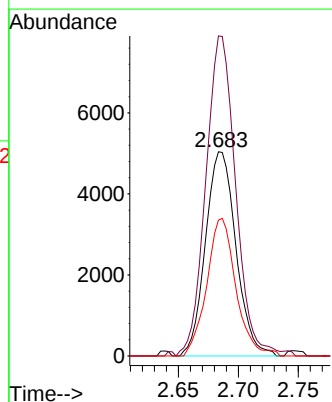
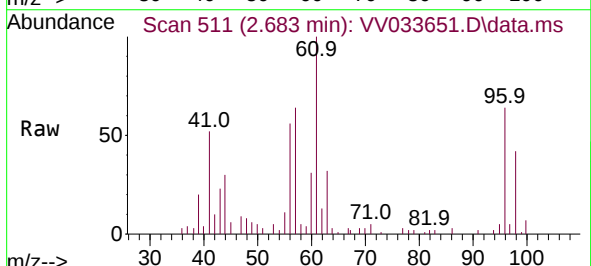
Instrument :
MSVOA_V
ClientSampleId :

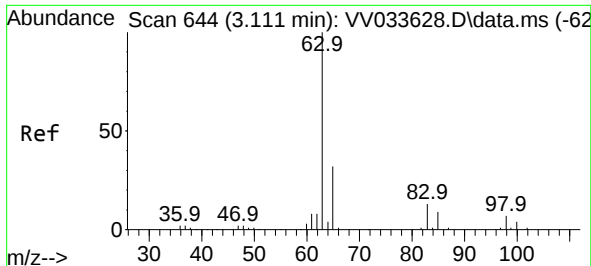
Tgt Ion: 43 Resp: 1661
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#



#18
trans-1,2-Dichloroethene
Concen: 0.990 ug/L
RT: 2.683 min Scan# 511
Delta R.T. -0.013 min
Lab File: VV033651.D
Acq: 15 Jan 2024 18:33

Tgt Ion: 96 Resp: 8919
Ion Ratio Lower Upper
96 100
61 156.8 110.4 205.0
98 66.5 44.1 81.9





#19

1,1-Dichloroethane

Concen: 7.335 ug/L

RT: 3.105 min Scan# 64

Delta R.T. -0.006 min

Lab File: VV033651.D

Acq: 15 Jan 2024 18:33

Instrument :

MSVOA_V

ClientSampleId :

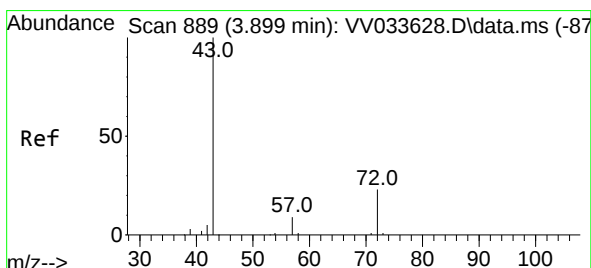
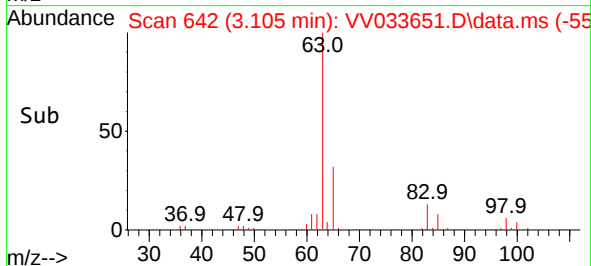
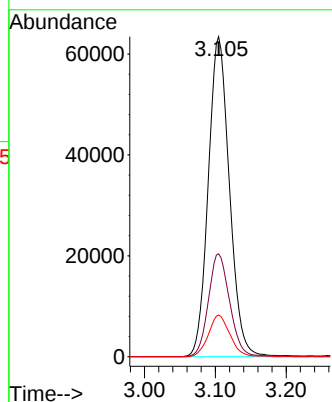
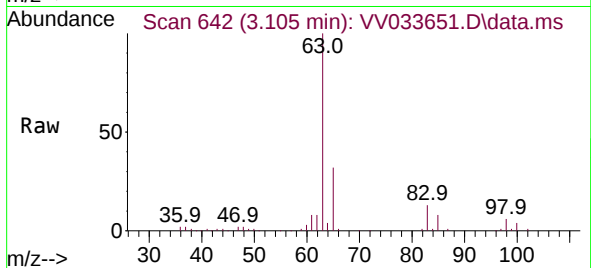
Tgt Ion: 63 Resp: 131352

Ion Ratio Lower Upper

63 100

65 32.2 21.6 40.2

83 13.0 9.1 16.9



#21

2-Butanone

Concen: 8.592 ug/L

RT: 4.027 min Scan# 929

Delta R.T. 0.129 min

Lab File: VV033651.D

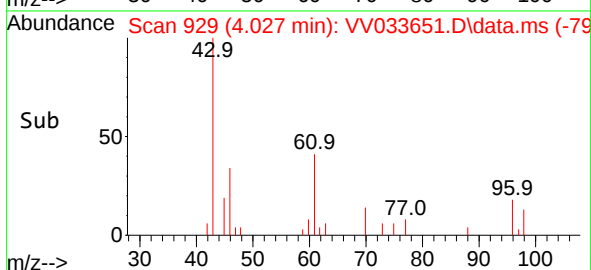
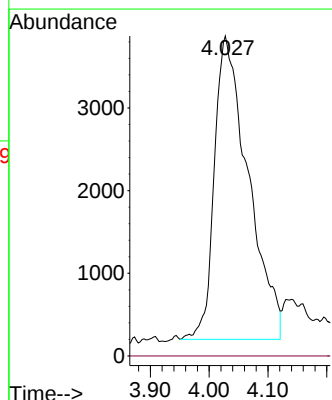
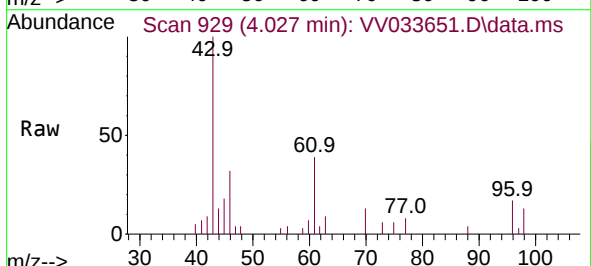
Acq: 15 Jan 2024 18:33

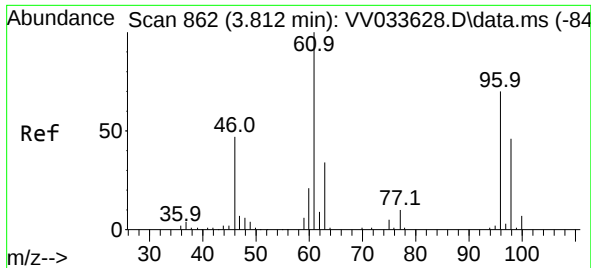
Tgt Ion: 43 Resp: 14652

Ion Ratio Lower Upper

43 100

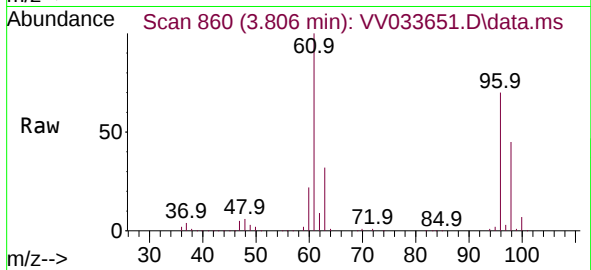
72 0.0 10.5 31.6#





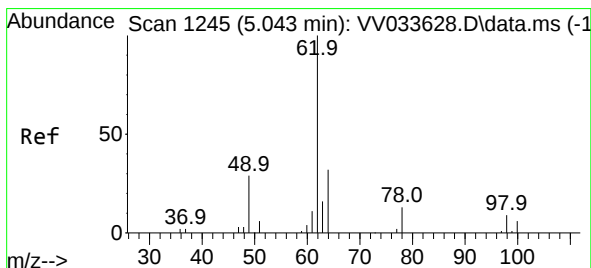
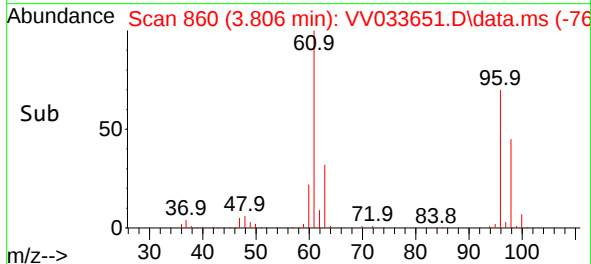
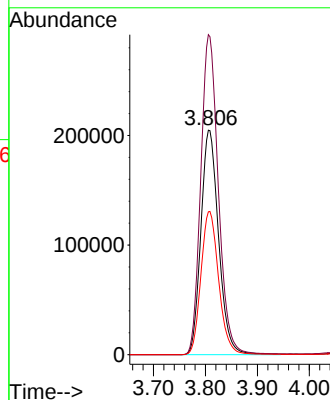
#22
 cis-1,2-Dichloroethene
 Concen: 51.413 ug/L
 RT: 3.806 min Scan# 860
 Delta R.T. -0.006 min
 Lab File: VV033651.D
 Acq: 15 Jan 2024 18:33

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion: 96 Resp: 485221

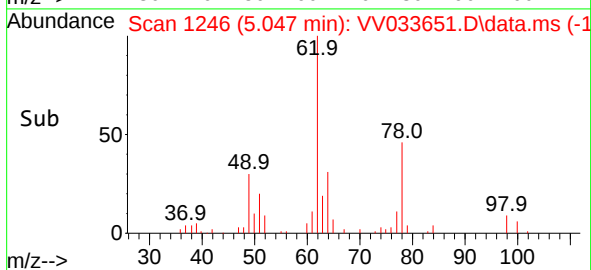
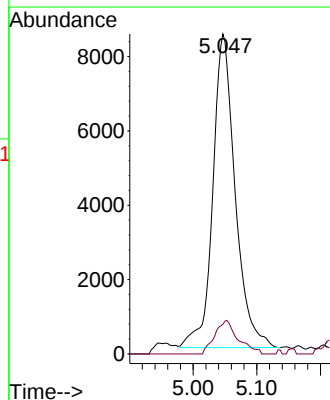
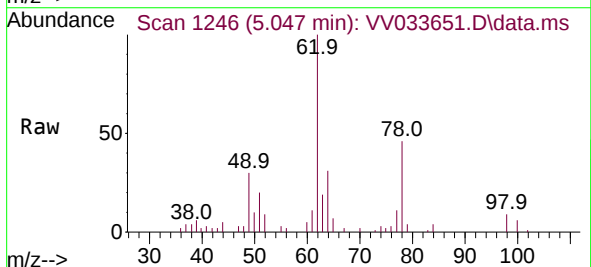
Ion	Ratio	Lower	Upper
96	100		
61	142.5	97.1	180.3
98	63.7	42.6	79.0

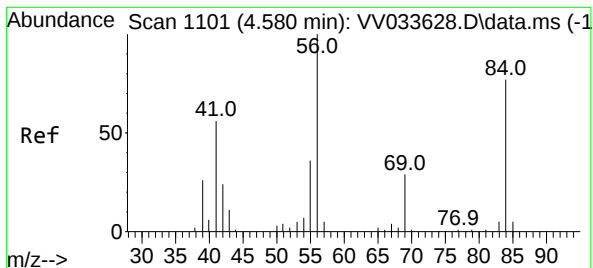


#27
 1,2-Dichloroethane
 Concen: 2.199 ug/L
 RT: 5.047 min Scan# 1246
 Delta R.T. 0.003 min
 Lab File: VV033651.D
 Acq: 15 Jan 2024 18:33

Tgt Ion: 62 Resp: 20604

Ion	Ratio	Lower	Upper
62	100		
98	9.3	7.0	10.6





#30

Cyclohexane

Concen: 0.556 ug/L

RT: 4.571 min Scan# 1101

Delta R.T. -0.010 min

Lab File: VV033651.D

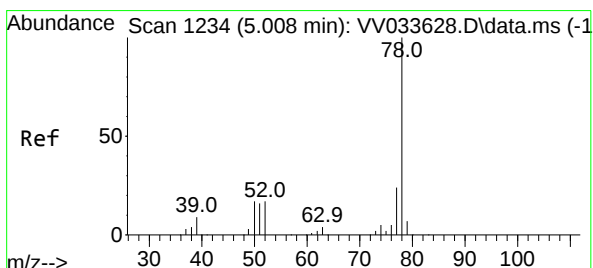
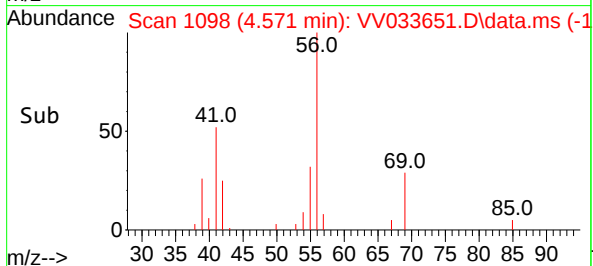
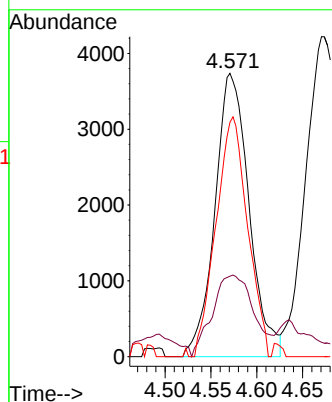
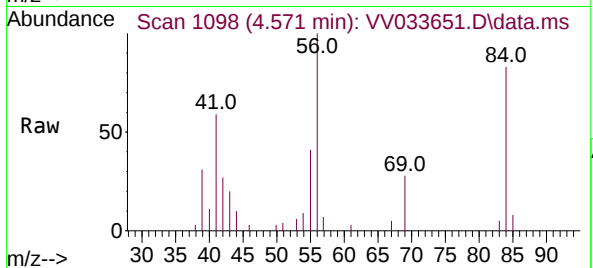
Acq: 15 Jan 2024 18:33

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	56	Resp:	9676
Ion Ratio	Lower	Upper	
56	100		
69	35.2	23.3	34.9#
84	78.2	61.7	92.5



#33

Benzene

Concen: 3.859 ug/L

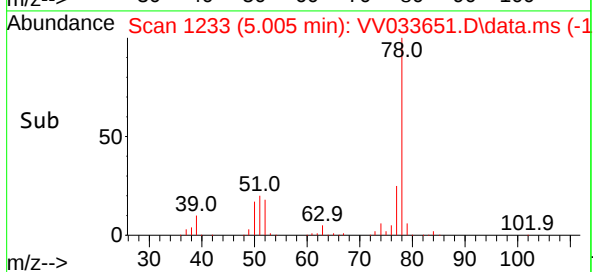
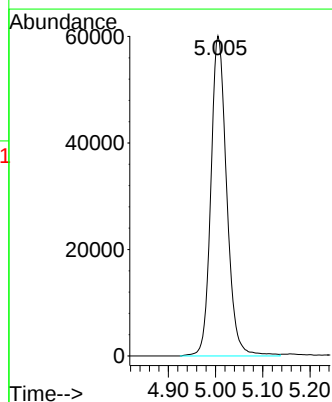
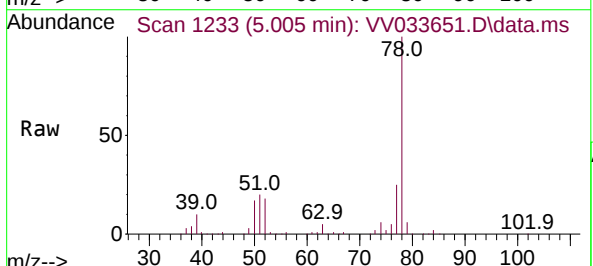
RT: 5.005 min Scan# 1233

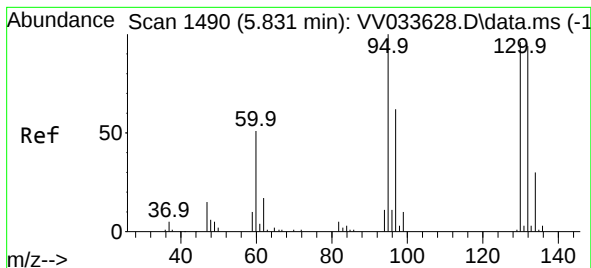
Delta R.T. -0.003 min

Lab File: VV033651.D

Acq: 15 Jan 2024 18:33

Tgt Ion: 78 Resp: 140242





#34

Trichloroethene

Concen: 0.500 ug/L

RT: 5.834 min Scan# 1490

Delta R.T. 0.003 min

Lab File: VV033651.D

Acq: 15 Jan 2024 18:33

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 4840

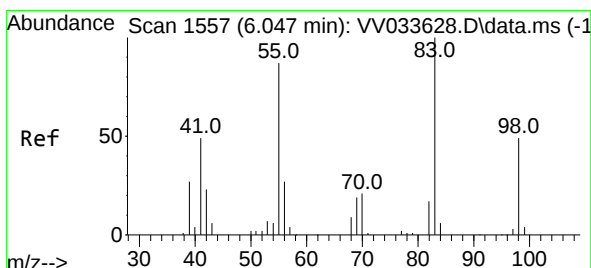
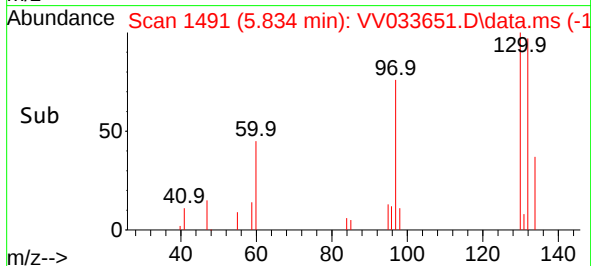
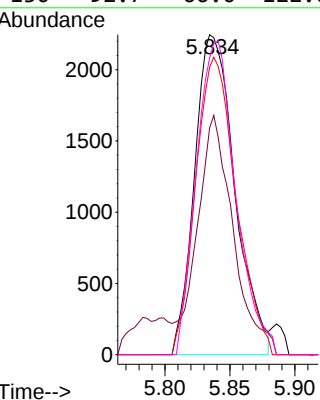
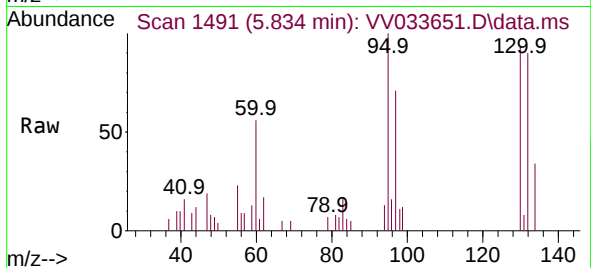
Ion Ratio Lower Upper

95 100

97 70.9 45.1 83.9

132 89.9 65.2 121.2

130 92.7 66.0 122.6



#35

Methylcyclohexane

Concen: 0.198 ug/L

RT: 6.047 min Scan# 1557

Delta R.T. 0.000 min

Lab File: VV033651.D

Acq: 15 Jan 2024 18:33

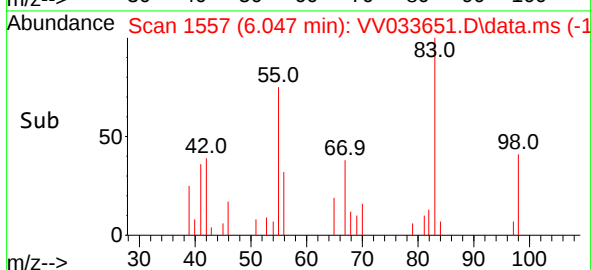
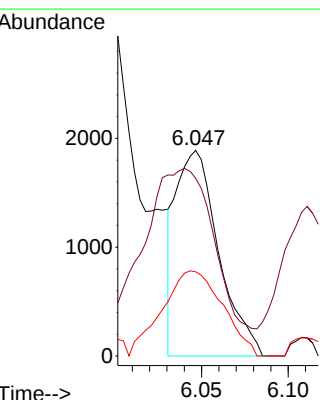
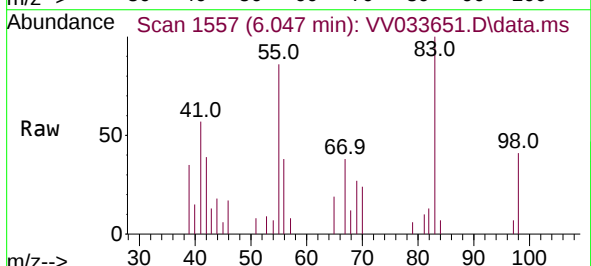
Tgt Ion: 83 Resp: 3242

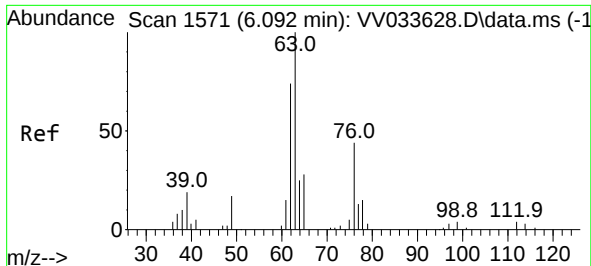
Ion Ratio Lower Upper

83 100

55 137.2 68.7 103.1#

98 58.5 38.3 57.5#





#37

1,2-Dichloropropane

Concen: 0.117 ug/L

RT: 6.101 min Scan# 1

Delta R.T. 0.010 min

Lab File: VV033651.D

Acq: 15 Jan 2024 18:33

Instrument :

MSVOA_V

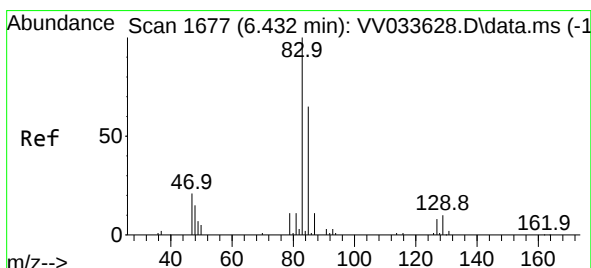
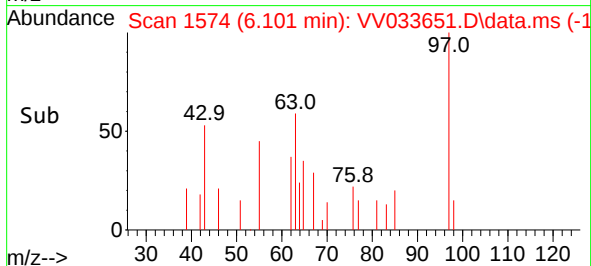
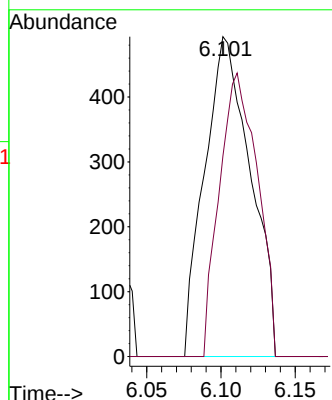
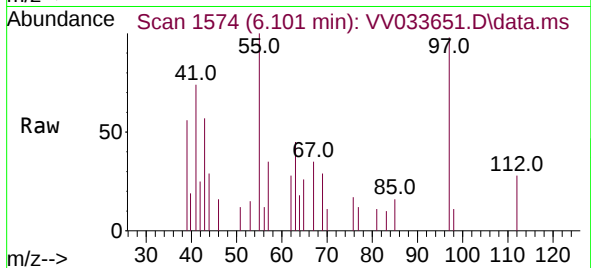
ClientSampleId :

Tgt Ion: 63 Resp: 1060

Ion Ratio Lower Upper

63 100

112 73.6 3.4 5.2#



#38

Bromodichloromethane

Concen: 0.196 ug/L

RT: 6.484 min Scan# 1693

Delta R.T. 0.051 min

Lab File: VV033651.D

Acq: 15 Jan 2024 18:33

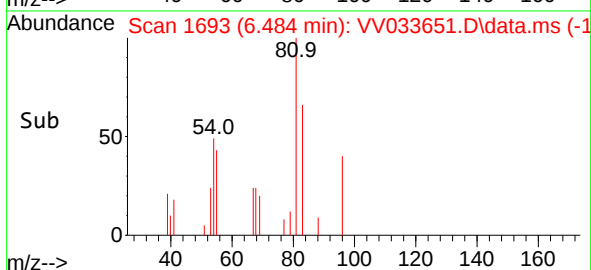
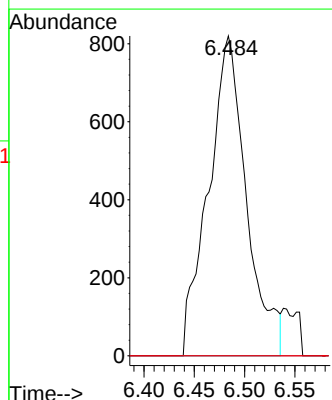
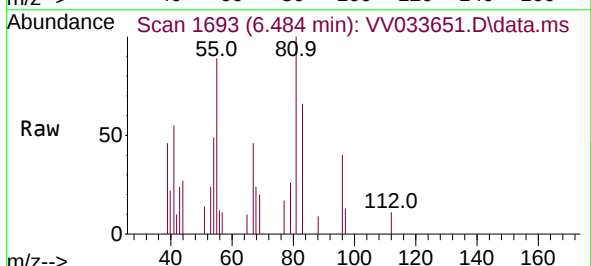
Tgt Ion: 83 Resp: 2155

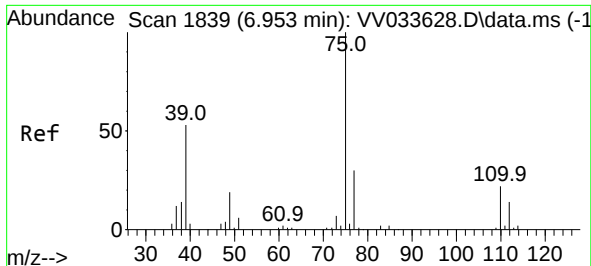
Ion Ratio Lower Upper

83 100

85 0.0 45.1 83.9#

127 0.0 6.6 9.8#





#39

cis-1,3-Dichloropropene

Concen: 0.137 ug/L

RT: 6.918 min Scan# 1828

Delta R.T. -0.035 min

Lab File: VV033651.D

Acq: 15 Jan 2024 18:33

Instrument :

MSVOA_V

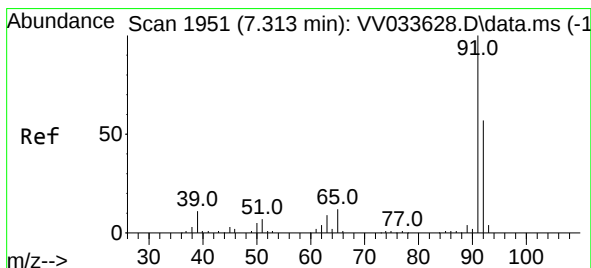
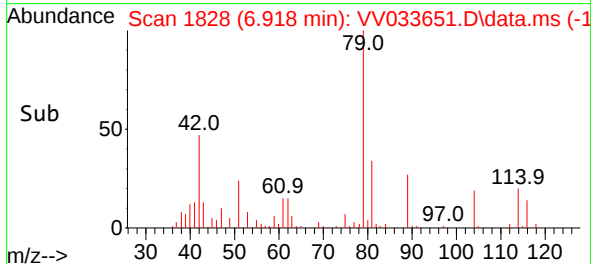
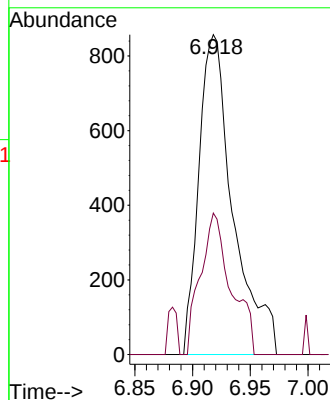
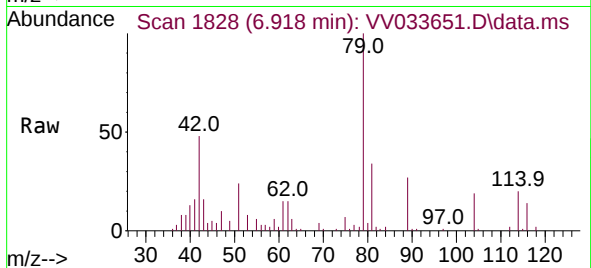
ClientSampleId :

Tgt Ion: 75 Resp: 1768

Ion Ratio Lower Upper

75 100

77 44.2 22.5 41.7#



#42

Toluene

Concen: 0.141 ug/L

RT: 7.323 min Scan# 1954

Delta R.T. 0.010 min

Lab File: VV033651.D

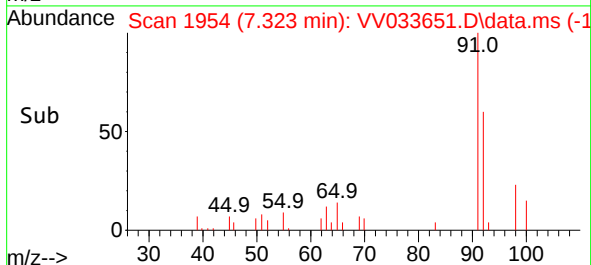
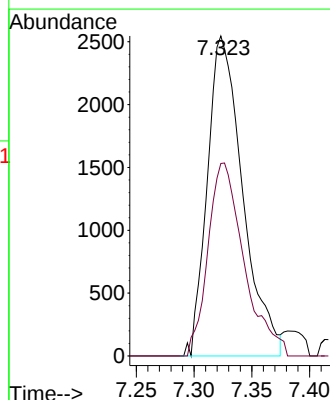
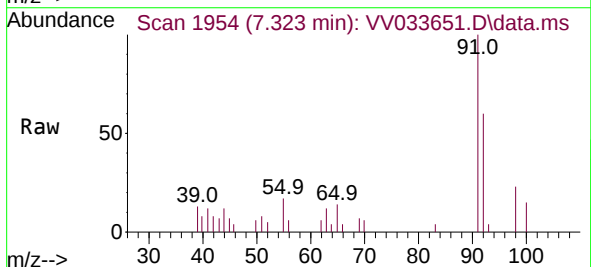
Acq: 15 Jan 2024 18:33

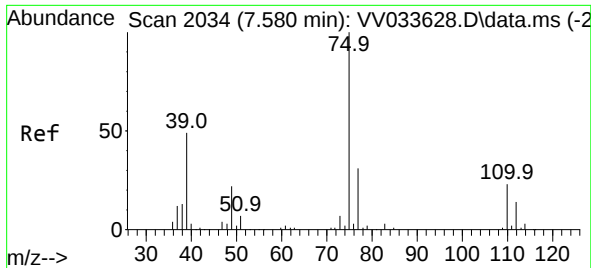
Tgt Ion: 91 Resp: 5426

Ion Ratio Lower Upper

91 100

92 60.1 40.5 75.3

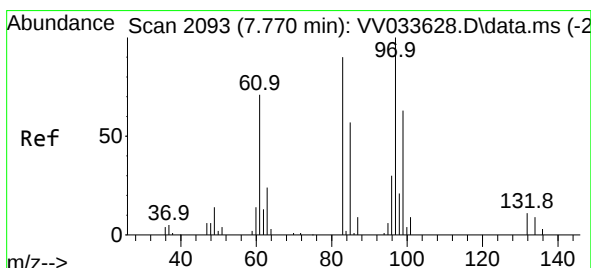
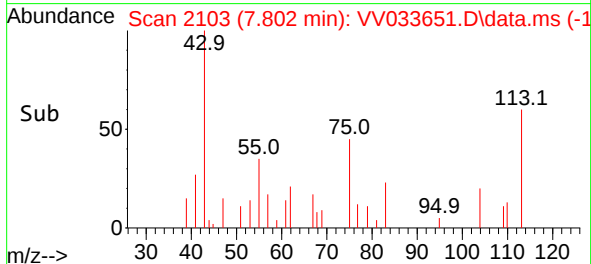
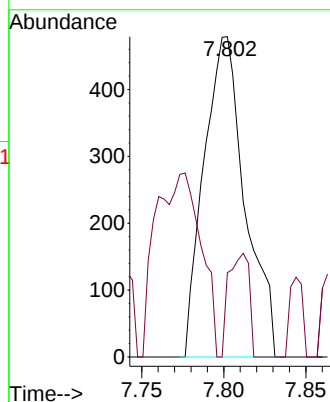
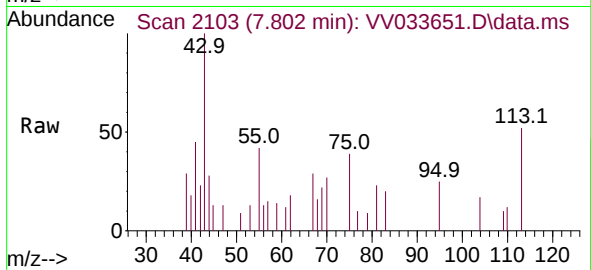




#44
trans-1,3-Dichloropropene
Concen: 0.080 ug/L
RT: 7.802 min Scan# 2103
Delta R.T. 0.222 min
Lab File: VV033651.D
Acq: 15 Jan 2024 18:33

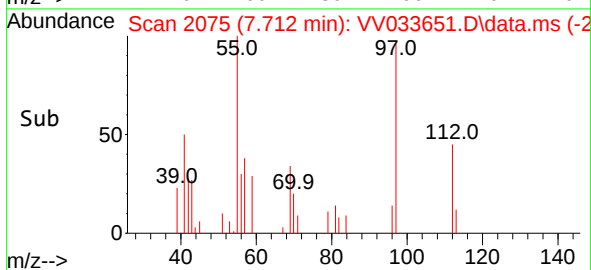
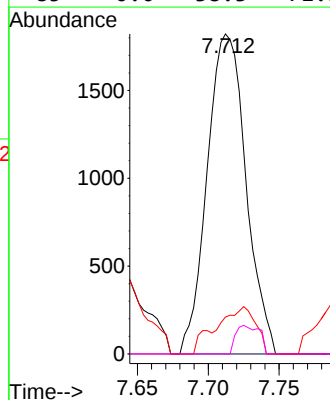
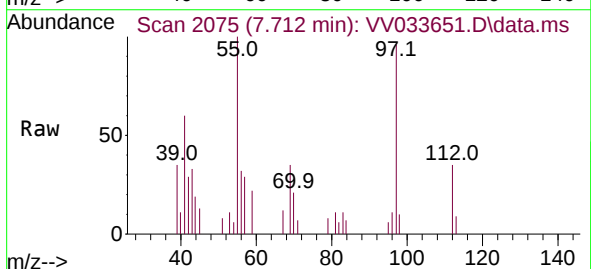
Instrument :
MSVOA_V
ClientSampleId :

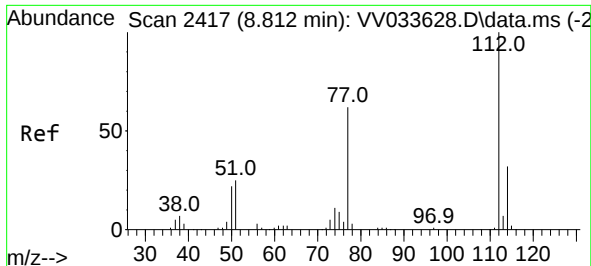
Tgt Ion: 75 Resp: 833
Ion Ratio Lower Upper
75 100
77 26.3 22.5 41.7



#45
1,1,2-Trichloroethane
Concen: 0.692 ug/L
RT: 7.712 min Scan# 2075
Delta R.T. -0.058 min
Lab File: VV033651.D
Acq: 15 Jan 2024 18:33

Tgt Ion: 97 Resp: 3469
Ion Ratio Lower Upper
97 100
99 0.0 44.9 83.3#
83 11.5 60.5 112.3#
85 0.0 38.3 71.1#

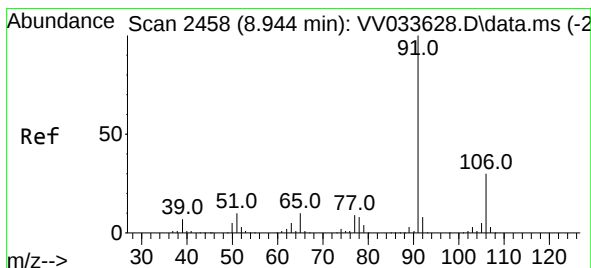
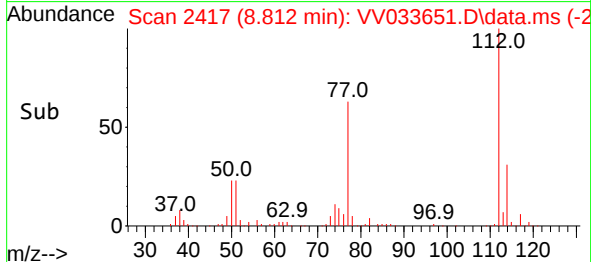
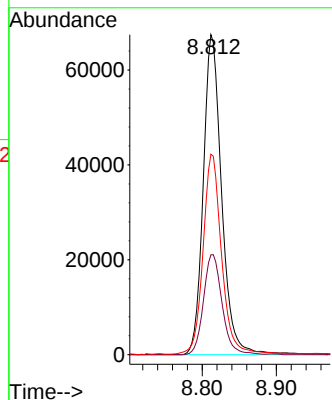
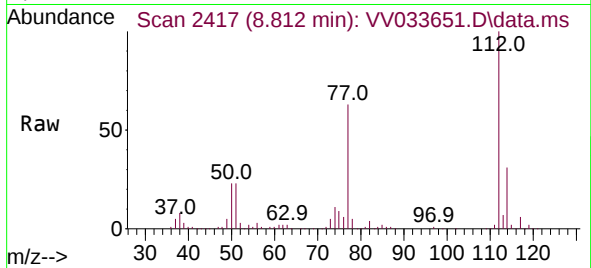




#51
Chlorobenzene
Concen: 4.913 ug/L
RT: 8.812 min Scan# 2417
Delta R.T. 0.000 min
Lab File: VV033651.D
Acq: 15 Jan 2024 18:33

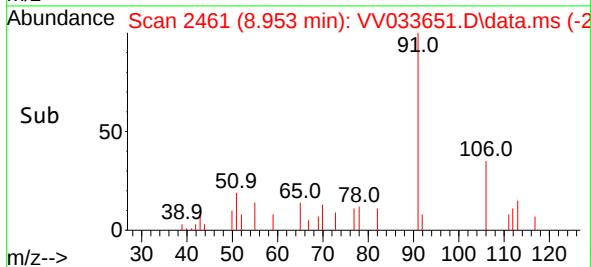
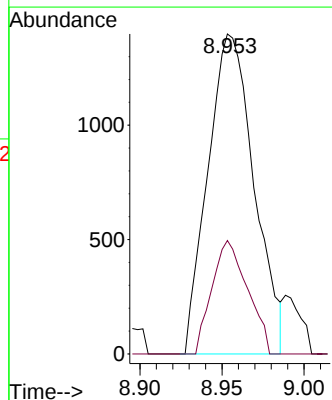
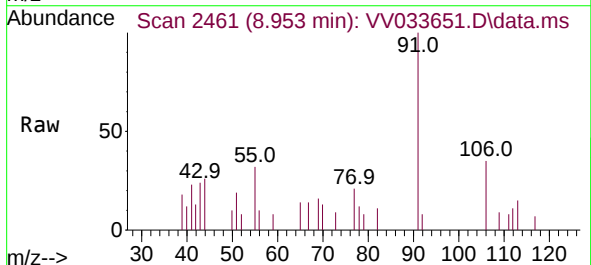
Instrument :
MSVOA_V
ClientSampleId :

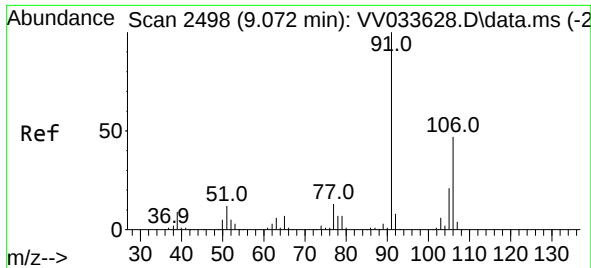
Tgt Ion:112 Resp: 115682
Ion Ratio Lower Upper
112 100
114 31.2 22.9 42.5
77 62.6 50.8 76.2



#52
Ethylbenzene
Concen: 0.061 ug/L
RT: 8.953 min Scan# 2461
Delta R.T. 0.010 min
Lab File: VV033651.D
Acq: 15 Jan 2024 18:33

Tgt Ion: 91 Resp: 2734
Ion Ratio Lower Upper
91 100
106 35.5 20.6 38.4

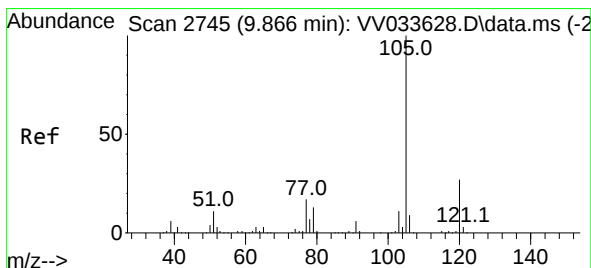
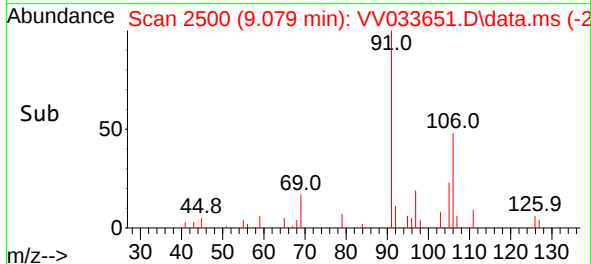
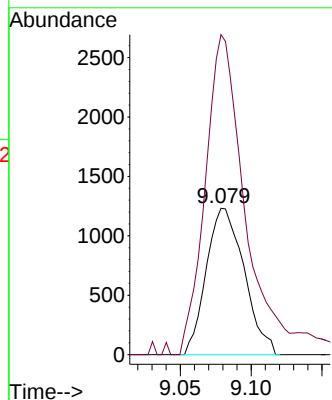
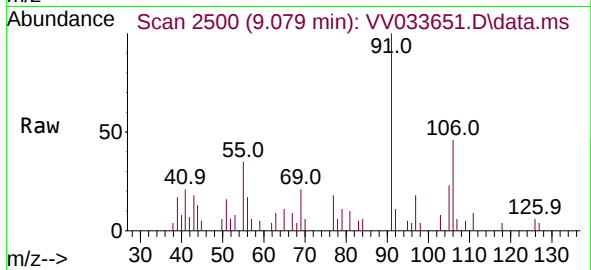




#53
m,p-Xylene
Concen: 0.140 ug/L
RT: 9.079 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV033651.D
Acq: 15 Jan 2024 18:33

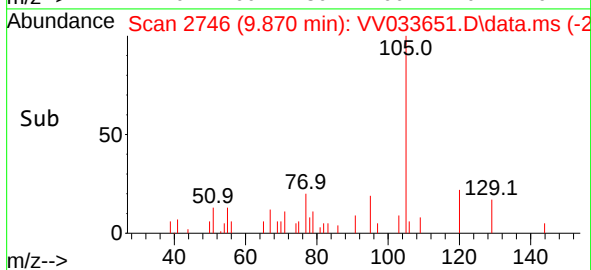
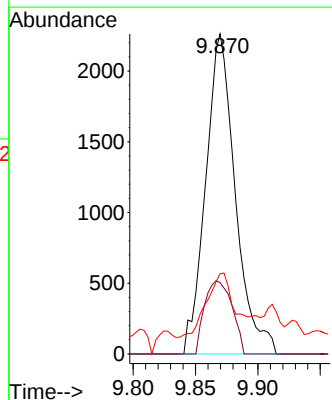
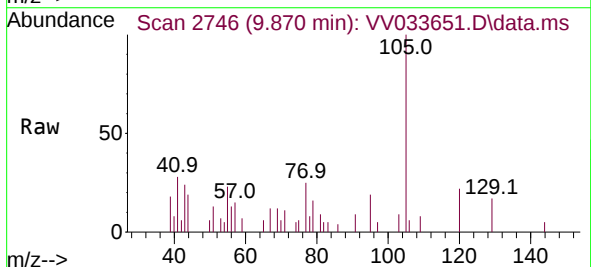
Instrument :
MSVOA_V
ClientSampleId :

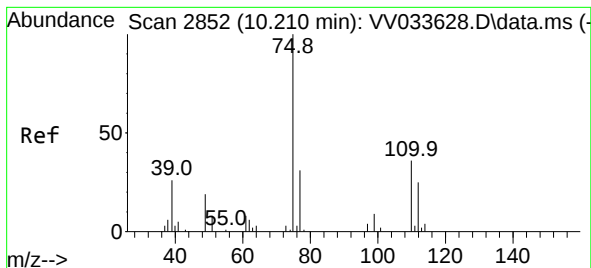
Tgt Ion:106 Resp: 2293
Ion Ratio Lower Upper
106 100
91 218.6 146.2 271.4



#60
Isopropylbenzene
Concen: 0.090 ug/L
RT: 9.870 min Scan# 2746
Delta R.T. 0.003 min
Lab File: VV033651.D
Acq: 15 Jan 2024 18:33

Tgt Ion:105 Resp: 3745
Ion Ratio Lower Upper
105 100
120 21.1 21.0 31.6
77 0.0 13.4 20.0#





#61

1,2,3-Trichloropropane

Concen: 0.790 ug/L

RT: 11.120 min Scan# 3135

Delta R.T. 0.910 min

Lab File: VV033651.D

Acq: 15 Jan 2024 18:33

Instrument :

MSVOA_V

ClientSampleId :

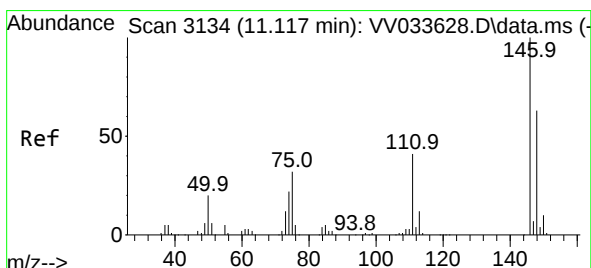
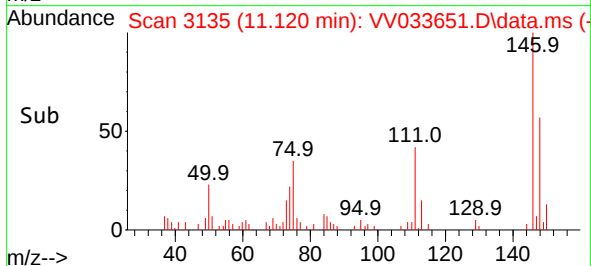
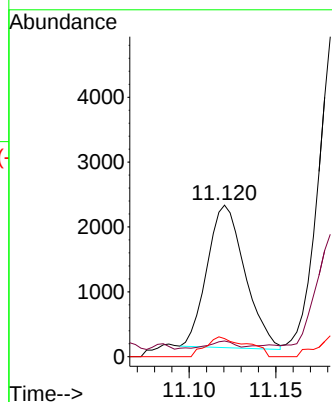
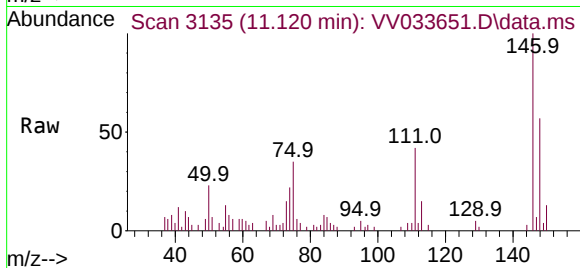
Tgt Ion: 75 Resp: 3333

Ion Ratio Lower Upper

75 100

77 0.0 24.7 37.1#

110 15.1 28.0 42.0#



#64

1,3-Dichlorobenzene

Concen: 0.604 ug/L

RT: 11.120 min Scan# 3135

Delta R.T. 0.003 min

Lab File: VV033651.D

Acq: 15 Jan 2024 18:33

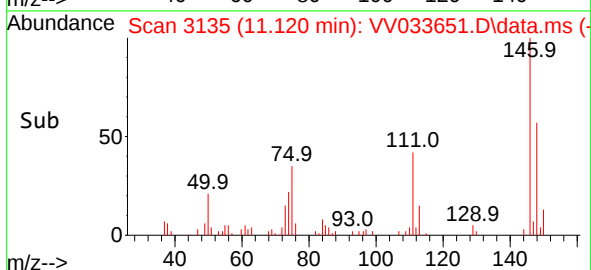
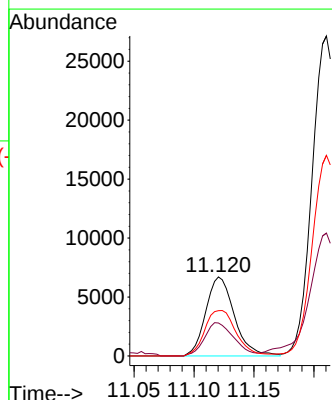
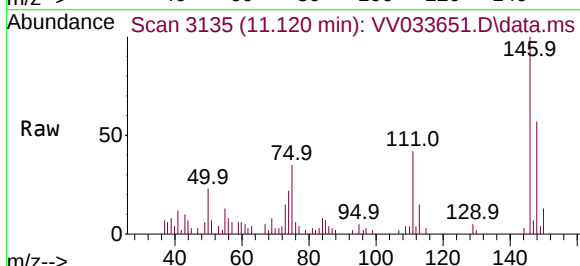
Tgt Ion:146 Resp: 11117

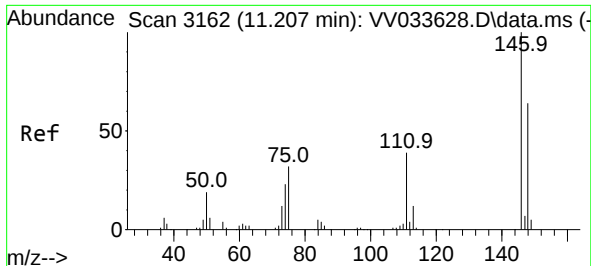
Ion Ratio Lower Upper

146 100

111 41.8 29.2 54.2

148 57.4 44.1 81.9

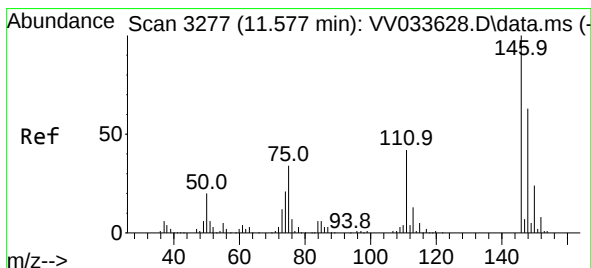
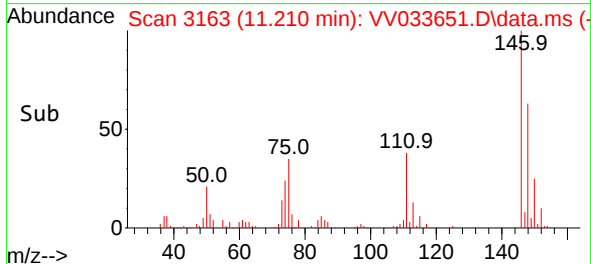
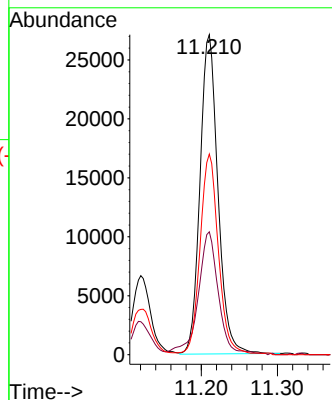
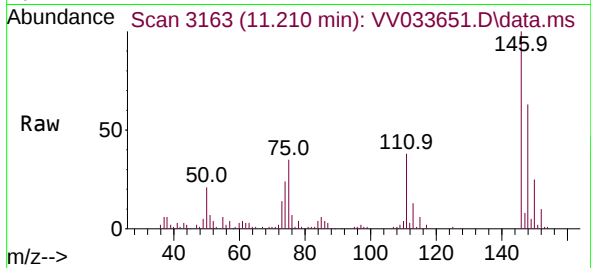




#65
1,4-Dichlorobenzene
Concen: 2.461 ug/L
RT: 11.210 min Scan# 3162
Delta R.T. 0.003 min
Lab File: VV033651.D
Acq: 15 Jan 2024 18:33

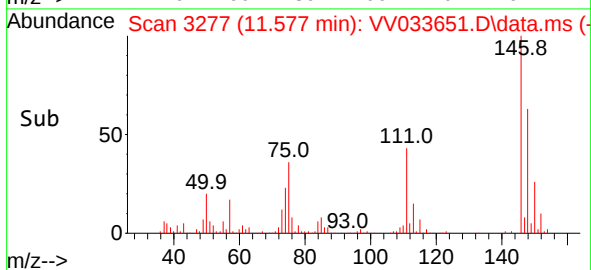
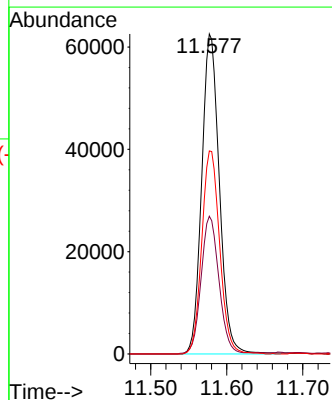
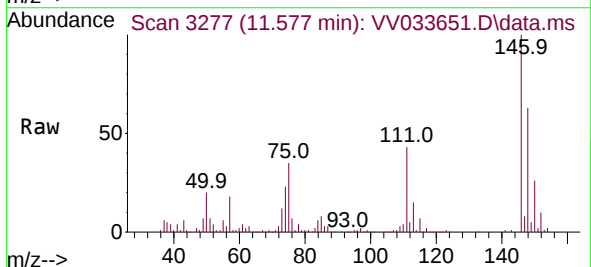
Instrument :
MSVOA_V
ClientSampleId :

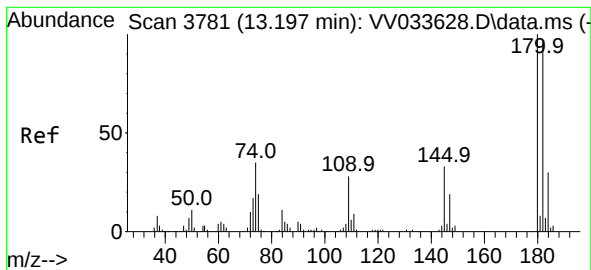
Tgt Ion:146 Resp: 44359
Ion Ratio Lower Upper
146 100
111 38.4 27.5 51.1
148 62.7 43.3 80.5



#67
1,2-Dichlorobenzene
Concen: 6.300 ug/L
RT: 11.577 min Scan# 3277
Delta R.T. 0.000 min
Lab File: VV033651.D
Acq: 15 Jan 2024 18:33

Tgt Ion:146 Resp: 100778
Ion Ratio Lower Upper
146 100
111 43.1 36.1 54.1
148 63.5 52.2 78.2





#70

1,2,4-trichlorobenzene

Concen: 0.868 ug/L

RT: 13.201 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV033651.D

Acq: 15 Jan 2024 18:33

Instrument :

MSVOA_V

ClientSampleId :

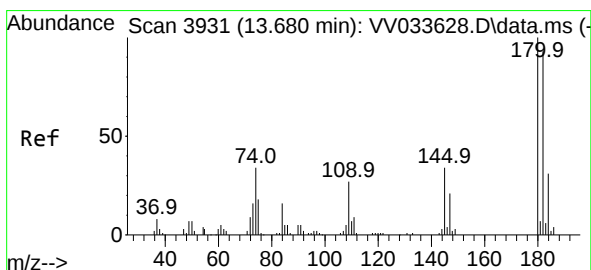
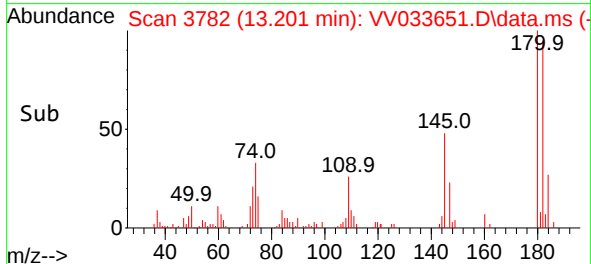
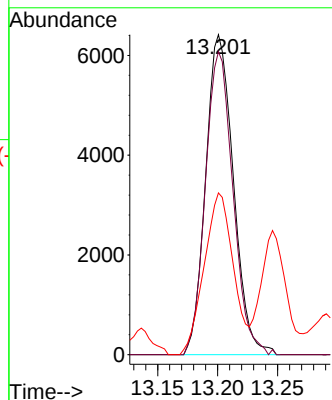
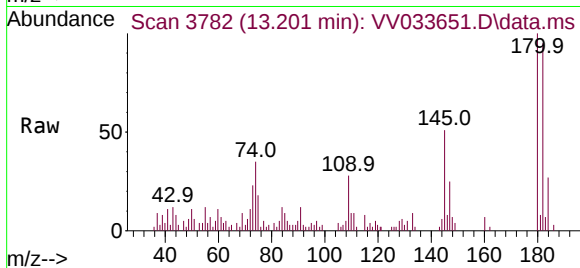
Tgt Ion:180 Resp: 10338

Ion Ratio Lower Upper

180 100

182 94.2 75.0 112.6

145 53.2 24.8 37.2#



#72

1,2,3-Trichlorobenzene

Concen: 0.120 ug/L

RT: 13.686 min Scan# 3933

Delta R.T. 0.006 min

Lab File: VV033651.D

Acq: 15 Jan 2024 18:33

Tgt Ion:180 Resp: 1149

Ion Ratio Lower Upper

180 100

182 98.8 75.0 112.6

145 219.3 26.6 40.0#

