

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU042324\
 Data File : VU058777.D
 Acq On : 23 Apr 2024 10:50
 Operator : MD/SY
 Sample : P2154-10
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 24 00:35:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR042224WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Apr 24 00:34:42 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.239	114	102918	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	97490	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.808	152	43457	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.589	65	38520	4.758	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	95.200%
7) Chloroethane-d5	1.905	69	24621	4.036	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.800%
11) 1,1-Dichloroethene-d2	2.557	65	17288	4.242	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	84.800%
20) 2-Butanone-d5	4.622	46	68583	48.220	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.440%
24) Chloroform-d	5.049	84	78984	4.773	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.400%
26) 1,2-Dichloroethane-d4	5.692	65	38221	4.765	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.200%
32) Benzene-d6	5.718	84	153254	4.939	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.800%
36) 1,2-Dichloropropane-d6	6.679	67	46685	5.044	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.800%
41) Toluene-d8	7.891	98	129558	4.665	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.200%
43) trans-1,3-Dichloroprop...	8.174	79	15699	4.659	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.200%
46) 2-Hexanone-d5	8.628	63	50001	50.074	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.140%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	27546	4.886	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.800%
66) 1,2-Dichlorobenzene-d4	12.184	152	39604	5.229	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	104.600%

Target Compounds					Qvalue
5) Vinyl chloride	1.596	62	46618	5.208	ug/L 99
12) 1,1-Dichloroethene	2.570	96	122943	16.403	ug/L # 78
16) Methylene chloride	3.033	84	112001	13.886	ug/L 97
18) trans-1,2-Dichloroethene	3.345	96	23922	3.187	ug/L 98
22) cis-1,2-Dichloroethene	4.654	96	44039	5.340	ug/L 98
27) 1,2-Dichloroethane	5.782	62	126559	12.802	ug/L 99
29) 1,1,1-Trichloroethane	5.303	97	264245	18.161	ug/L 99
31) Carbon tetrachloride	5.512	117	88887	6.911	ug/L 100
33) Benzene	5.763	78	463802	13.751	ug/L 100
34) Trichloroethene	6.531	95	99488	10.840	ug/L 98
37) 1,2-Dichloropropane	6.779	63	104290	11.837	ug/L 100
42) Toluene	7.962	91	212520	6.096	ug/L 98
45) 1,1,2-Trichloroethane	8.390	97	84582	16.684	ug/L 99
47) Tetrachloroethene	8.547	164	112880	17.525	ug/L 98
49) Dibromochloromethane	8.544	129	111031	18.701	ug/L # 13
51) Chlorobenzene	9.438	112	256471	12.076	ug/L 99
52) Ethylbenzene	9.563	91	162926	4.238	ug/L 100
53) m,p-Xylene	9.686	106	425105	30.104	ug/L 98
54) o-Xylene	10.094	106	182036	13.598	ug/L 95

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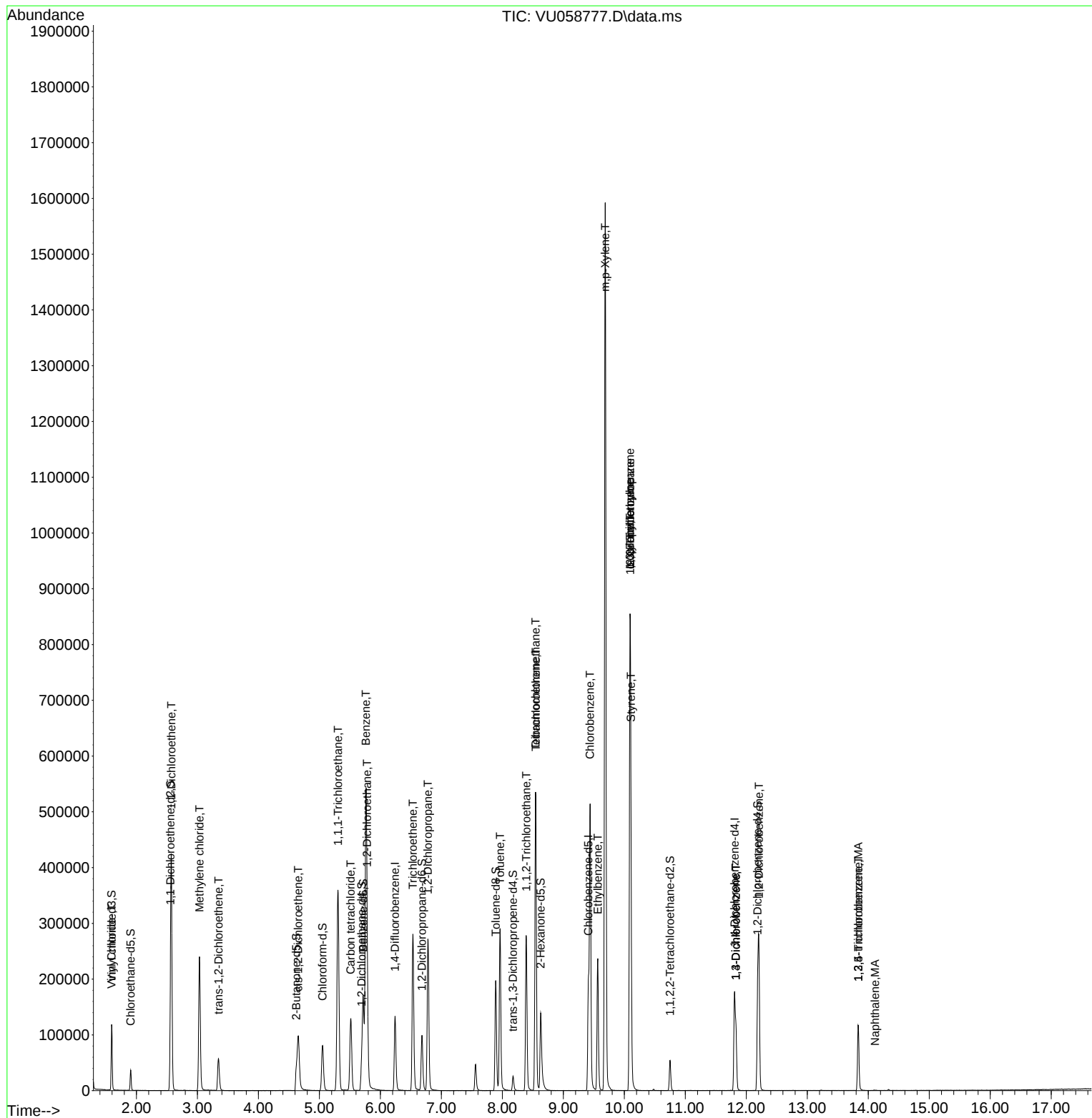
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) Styrene	10.107	104	153111	7.021	ug/L	98
60) Isopropylbenzene	10.094	105	90506	2.625	ug/L #	1
61) 1,2,3-Trichloropropane	10.097	75	11983	3.030	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.094	105	90506	3.155	ug/L #	31
64) 1,3-Dichlorobenzene	11.830	146	40301	2.712	ug/L	97
65) 1,4-Dichlorobenzene	11.830	146	40301	2.780	ug/L	98
67) 1,2-Dichlorobenzene	12.206	146	95083	7.392	ug/L	99
69) 1,3,5-Trichlorobenzene	13.837	180	36455	3.430	ug/L	98
70) 1,2,4-trichlorobenzene	13.837	180	36455	4.934	ug/L	99
71) Naphthalene	14.110	128	1177	0.132	ug/L #	72

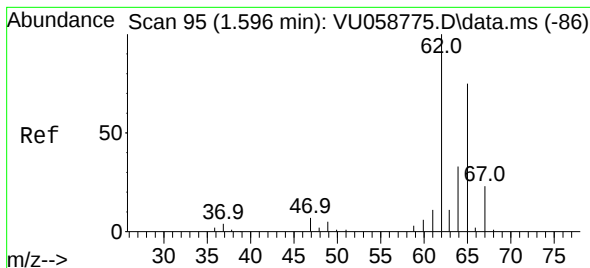
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 5.208 ug/L

RT: 1.596 min Scan# 90

Delta R.T. 0.000 min

Lab File: VU058777.D

Acq: 23 Apr 2024 10:50

Instrument :

MSVOA_U

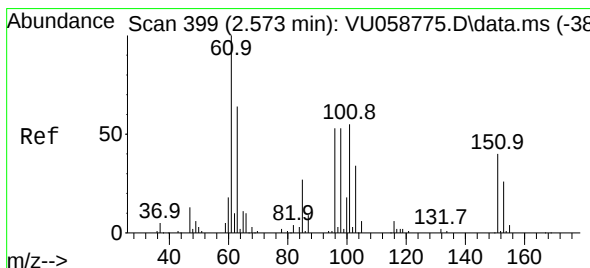
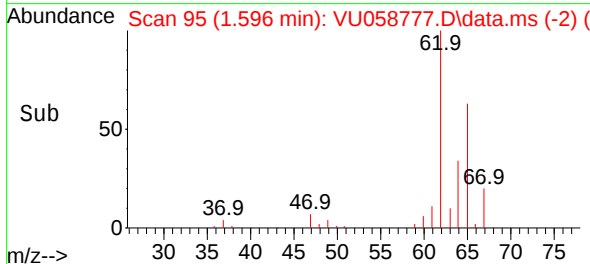
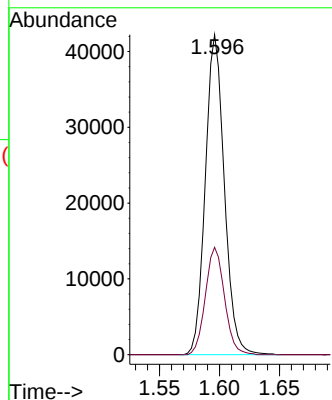
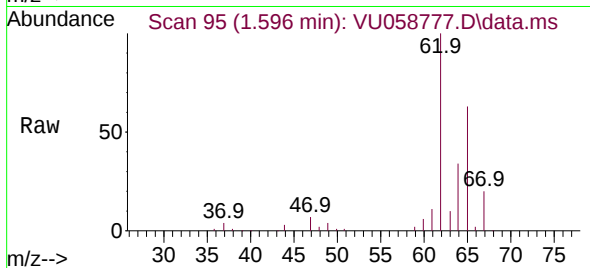
ClientSampleId :

Tgt Ion: 62 Resp: 46618

Ion Ratio Lower Upper

62 100

64 33.6 23.8 44.2



#12

1,1-Dichloroethene

Concen: 16.403 ug/L

RT: 2.570 min Scan# 398

Delta R.T. -0.003 min

Lab File: VU058777.D

Acq: 23 Apr 2024 10:50

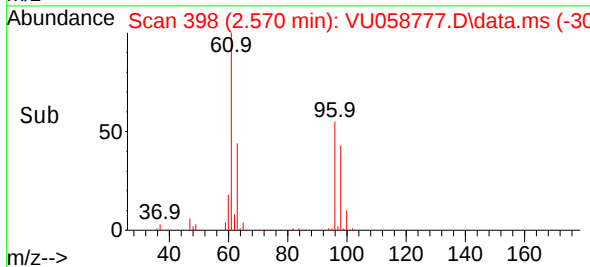
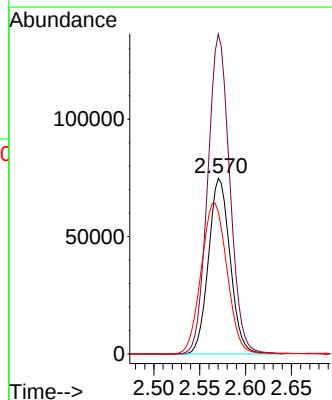
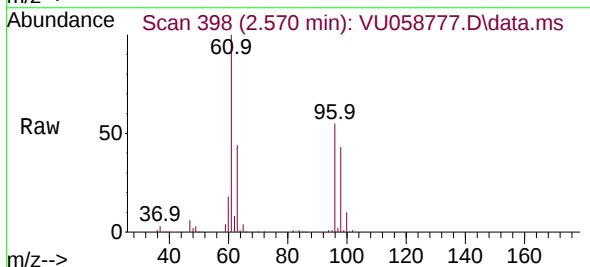
Tgt Ion: 96 Resp: 122943

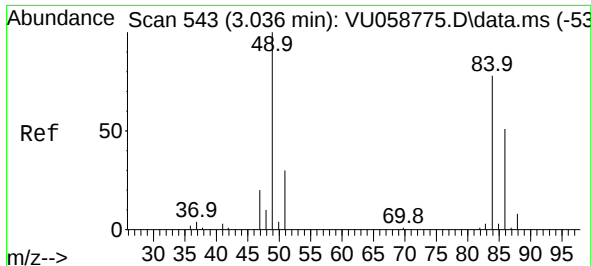
Ion Ratio Lower Upper

96 100

61 182.2 135.3 251.3

63 80.9 91.9 170.7#





#16

Methylene chloride

Concen: 13.886 ug/L

RT: 3.033 min Scan# 543

Delta R.T. -0.003 min

Lab File: VU058777.D

Acq: 23 Apr 2024 10:50

Instrument :

MSVOA_U

ClientSampleId :

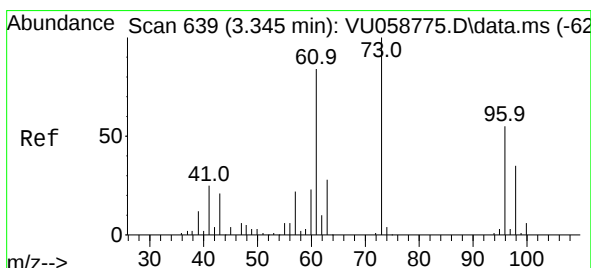
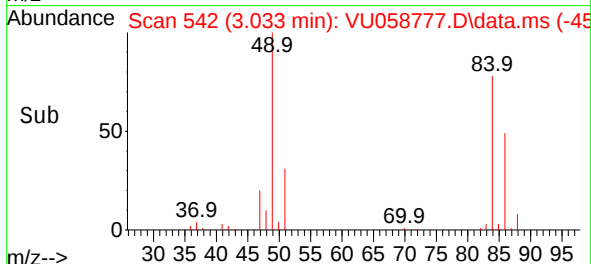
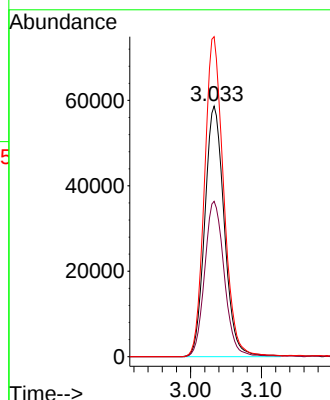
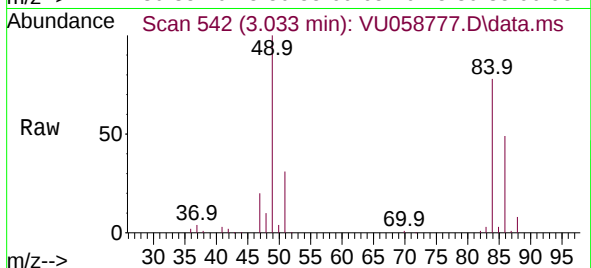
Tgt Ion: 84 Resp: 112001

Ion Ratio Lower Upper

84 100

86 62.0 45.0 83.6

49 127.7 91.6 170.2



#18

trans-1,2-Dichloroethene

Concen: 3.187 ug/L

RT: 3.345 min Scan# 639

Delta R.T. 0.000 min

Lab File: VU058777.D

Acq: 23 Apr 2024 10:50

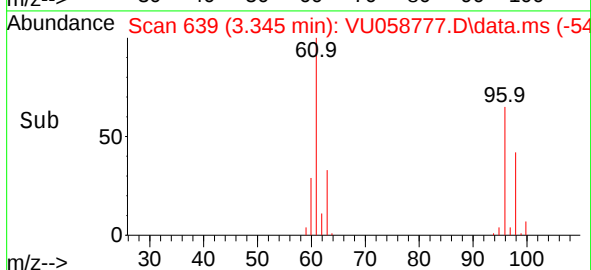
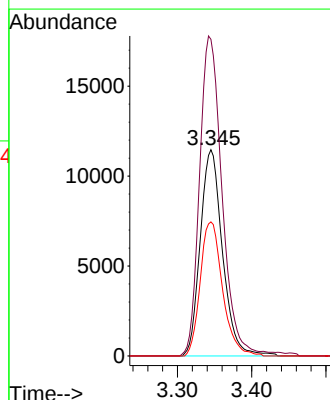
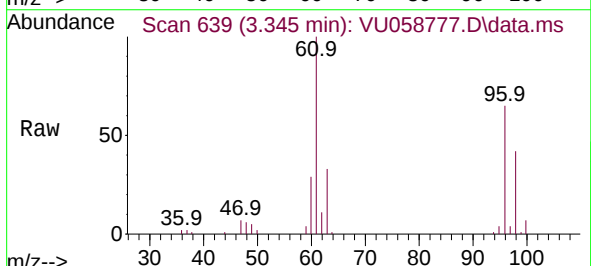
Tgt Ion: 96 Resp: 23922

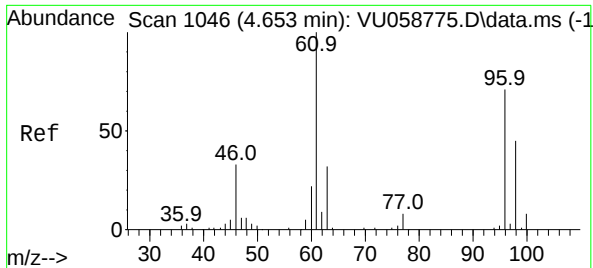
Ion Ratio Lower Upper

96 100

61 153.5 108.6 201.8

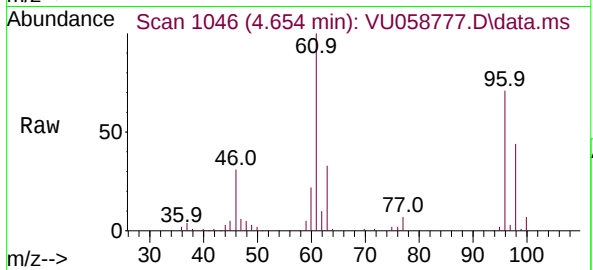
98 65.0 44.4 82.4





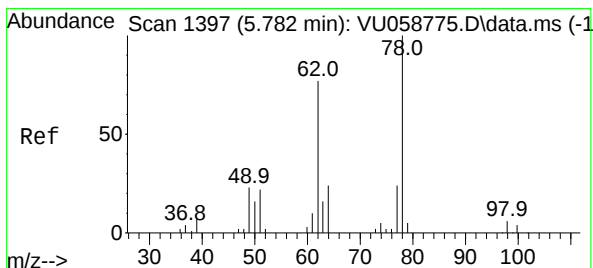
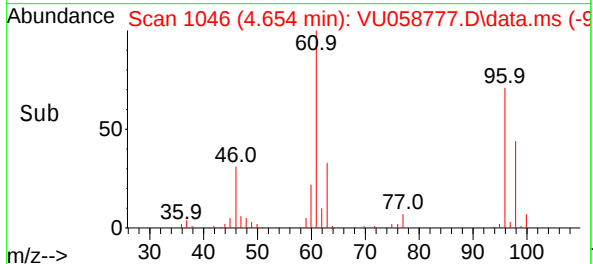
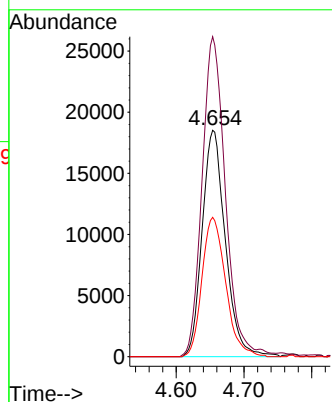
#22
 cis-1,2-Dichloroethene
 Concen: 5.340 ug/L
 RT: 4.654 min Scan# 1046
 Delta R.T. 0.000 min
 Lab File: VU058777.D
 Acq: 23 Apr 2024 10:50

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion: 96 Resp: 44039

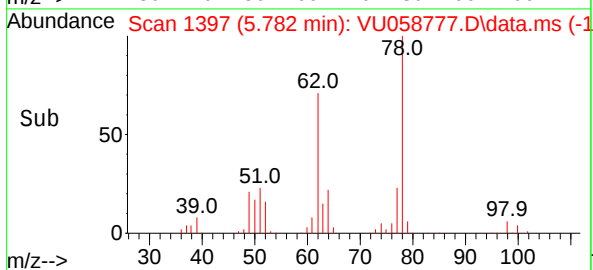
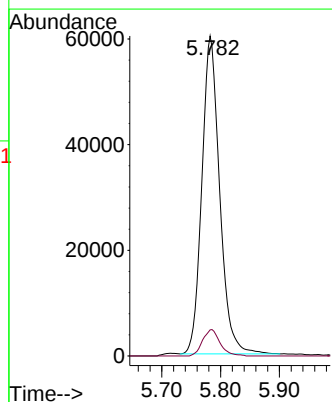
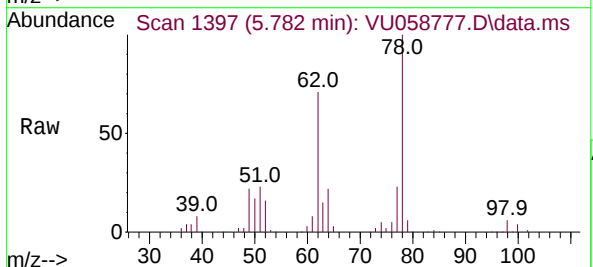
Ion	Ratio	Lower	Upper
96	100		
61	141.4	100.4	186.4
98	61.5	45.1	83.7

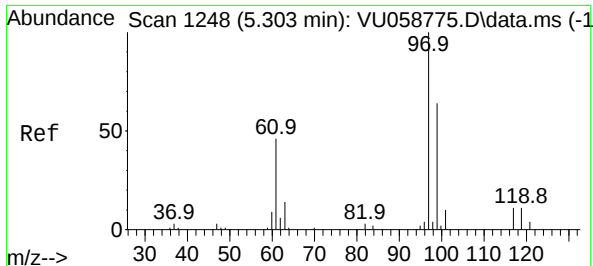


#27
 1,2-Dichloroethane
 Concen: 12.802 ug/L
 RT: 5.782 min Scan# 1397
 Delta R.T. 0.000 min
 Lab File: VU058777.D
 Acq: 23 Apr 2024 10:50

Tgt Ion: 62 Resp: 126559

Ion	Ratio	Lower	Upper
62	100		
98	8.1	6.7	10.1

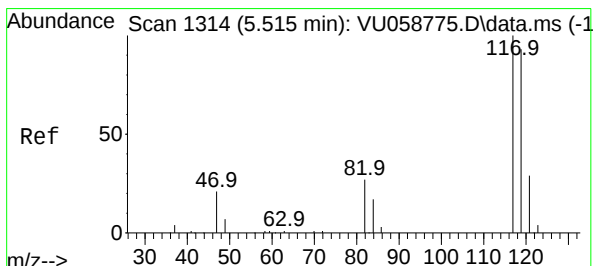
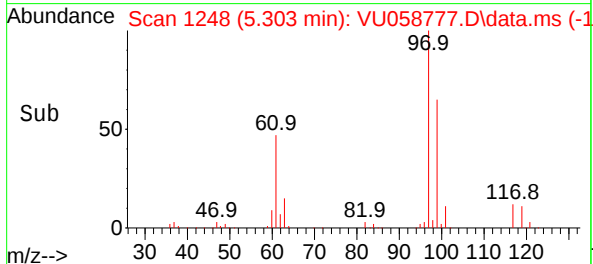
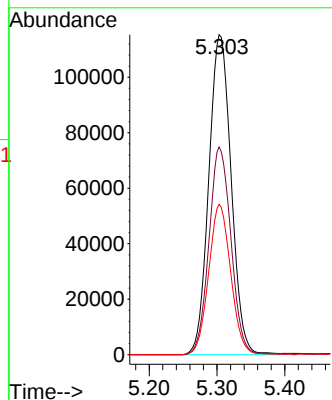
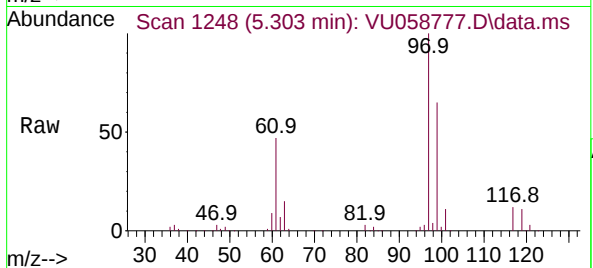




#29
1,1,1-Trichloroethane
Concen: 18.161 ug/L
RT: 5.303 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU058777.D
Acq: 23 Apr 2024 10:50

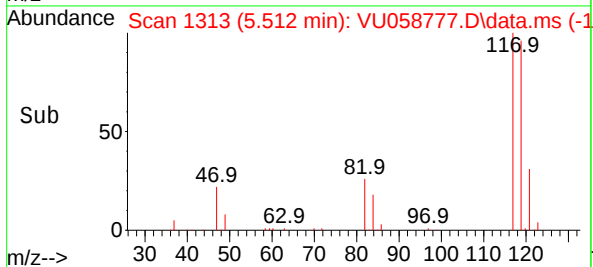
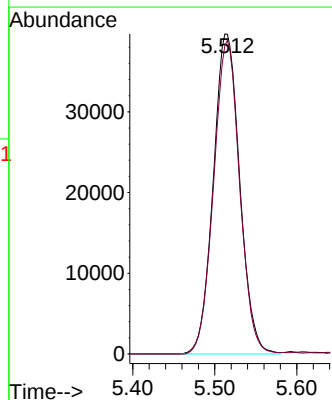
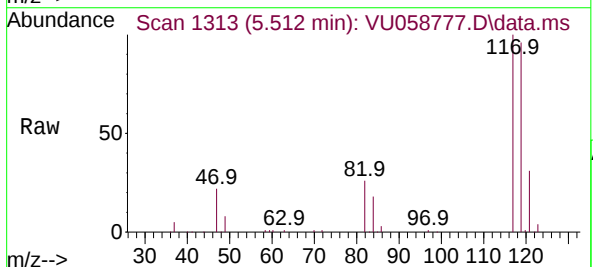
Instrument :
MSVOA_U
ClientSampleId :

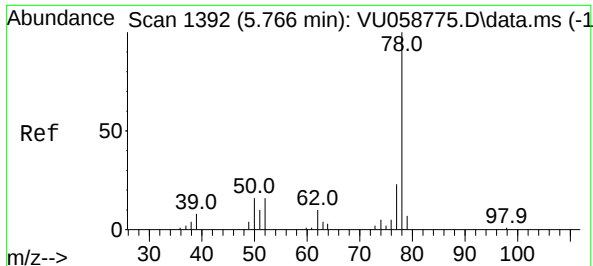
Tgt Ion: 97 Resp: 264245
Ion Ratio Lower Upper
97 100
99 63.8 50.5 75.7
61 46.4 37.3 55.9



#31
Carbon tetrachloride
Concen: 6.911 ug/L
RT: 5.512 min Scan# 1313
Delta R.T. -0.003 min
Lab File: VU058777.D
Acq: 23 Apr 2024 10:50

Tgt Ion:117 Resp: 88887
Ion Ratio Lower Upper
117 100
119 96.2 77.0 115.4





#33

Benzene

Concen: 13.751 ug/L

RT: 5.763 min Scan# 14

Delta R.T. -0.003 min

Lab File: VU058777.D

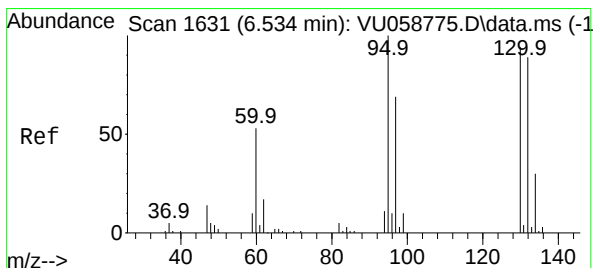
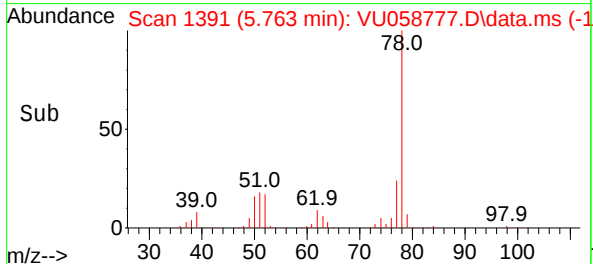
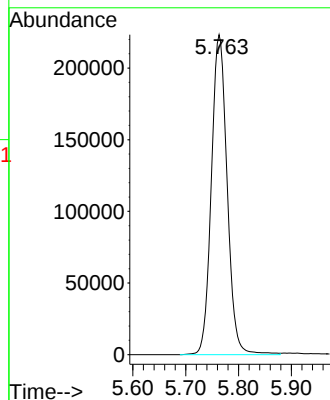
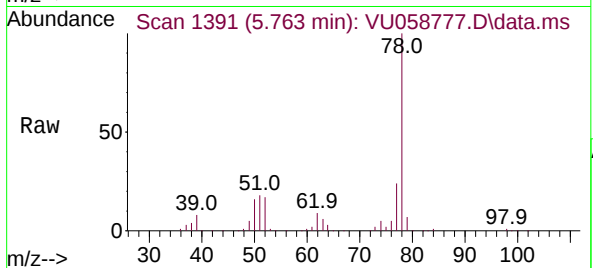
Acq: 23 Apr 2024 10:50

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 463802



#34

Trichloroethene

Concen: 10.840 ug/L

RT: 6.531 min Scan# 1630

Delta R.T. -0.003 min

Lab File: VU058777.D

Acq: 23 Apr 2024 10:50

Tgt Ion: 95 Resp: 99488

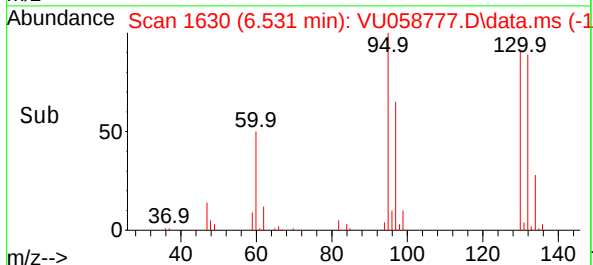
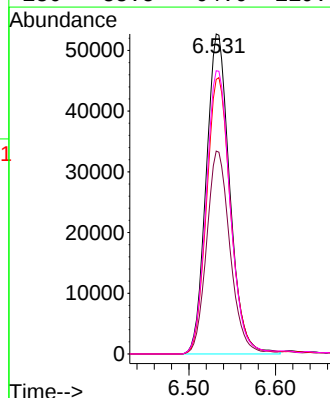
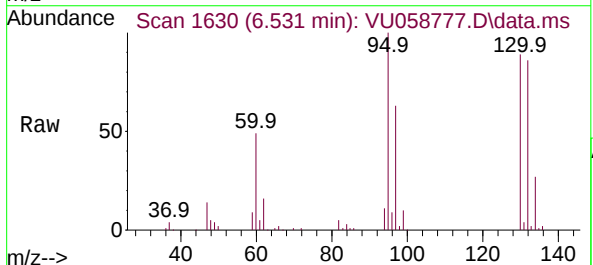
Ion Ratio Lower Upper

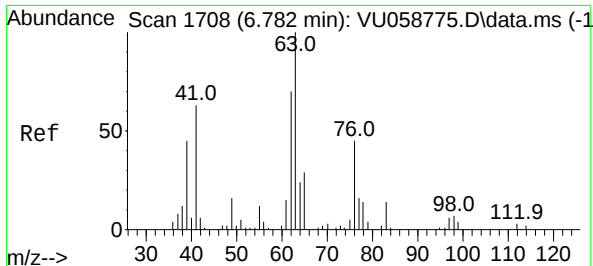
95 100

97 63.4 44.4 82.4

132 85.8 61.6 114.4

130 88.5 64.0 119.0

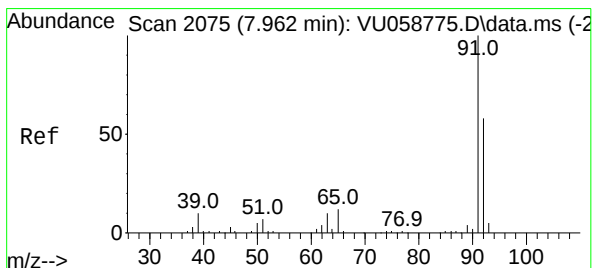
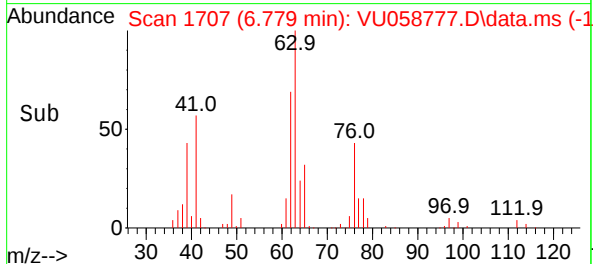
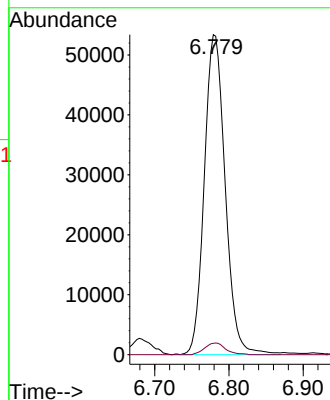
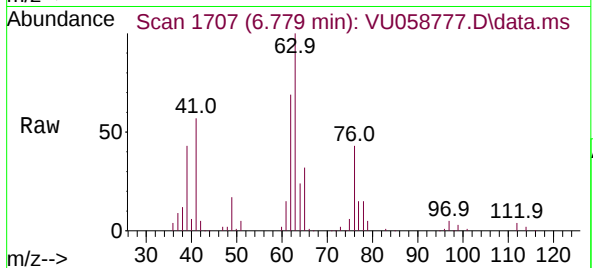




#37
1,2-Dichloropropane
Concen: 11.837 ug/L
RT: 6.779 min Scan# 1
Delta R.T. -0.003 min
Lab File: VU058777.D
Acq: 23 Apr 2024 10:50

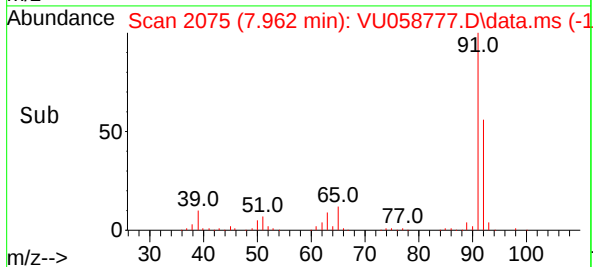
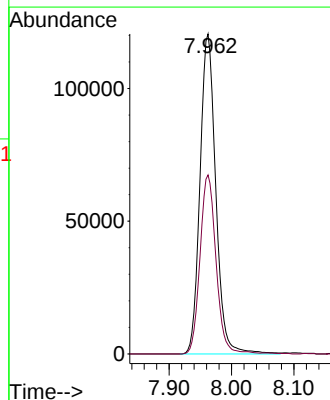
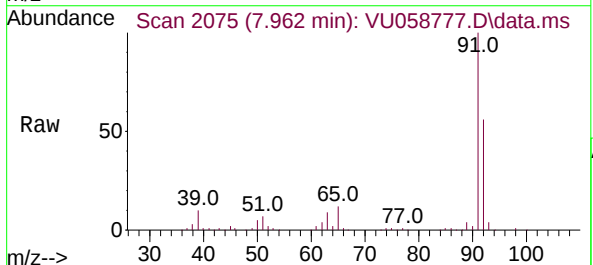
Instrument :
MSVOA_U
ClientSampleId :

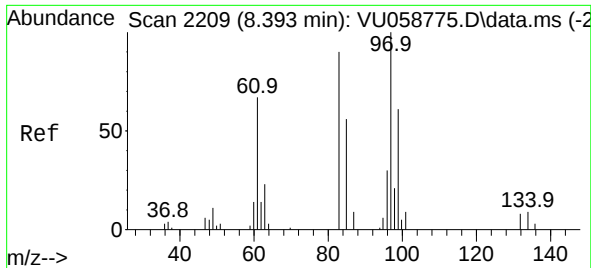
Tgt Ion: 63 Resp: 104290
Ion Ratio Lower Upper
63 100
112 3.6 2.8 4.2



#42
Toluene
Concen: 6.096 ug/L
RT: 7.962 min Scan# 2075
Delta R.T. 0.000 min
Lab File: VU058777.D
Acq: 23 Apr 2024 10:50

Tgt Ion: 91 Resp: 212520
Ion Ratio Lower Upper
91 100
92 56.0 40.0 74.2

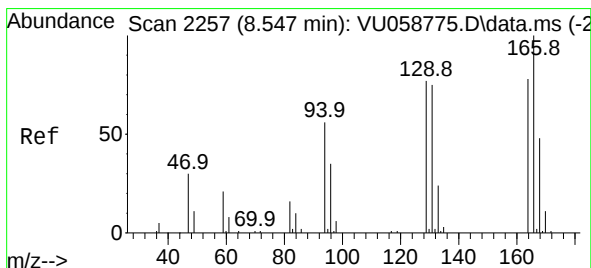
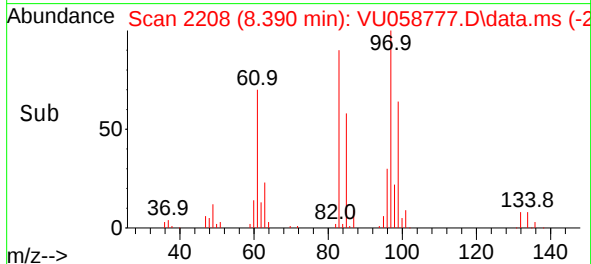
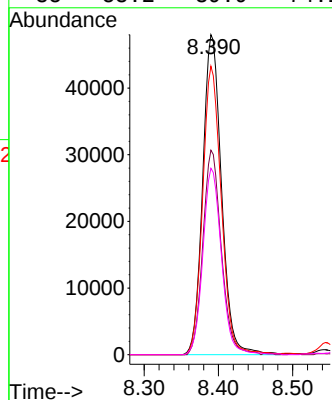
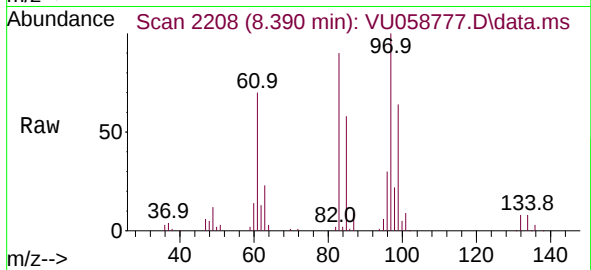




#45
1,1,2-Trichloroethane
Concen: 16.684 ug/L
RT: 8.390 min Scan# 2209
Delta R.T. -0.003 min
Lab File: VU058777.D
Acq: 23 Apr 2024 10:50

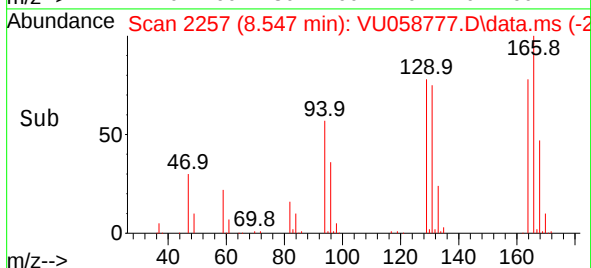
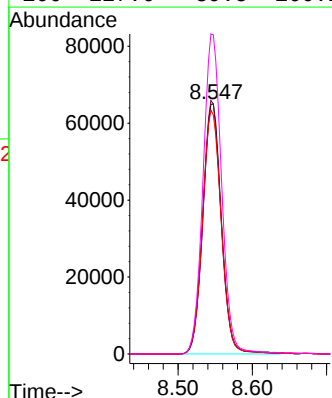
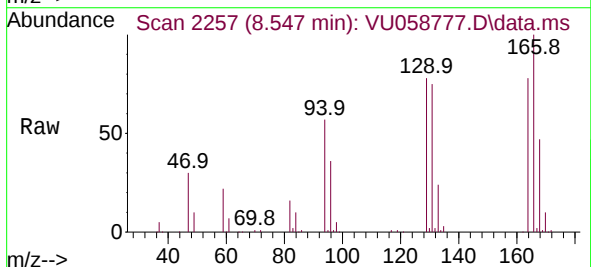
Instrument :
MSVOA_U
ClientSampleId :

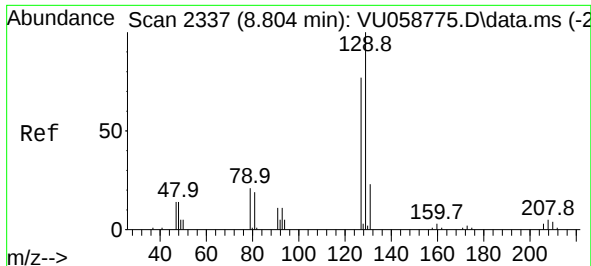
Tgt Ion:	97	Resp:	84582
Ion	Ratio	Lower	Upper
97	100		
99	63.9	43.7	81.1
83	90.2	62.9	116.9
85	58.2	39.9	74.1



#47
Tetrachloroethene
Concen: 17.525 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. 0.000 min
Lab File: VU058777.D
Acq: 23 Apr 2024 10:50

Tgt Ion:	164	Resp:	112880
Ion	Ratio	Lower	Upper
164	100		
129	100.0	71.5	132.9
131	95.7	65.0	120.6
166	127.6	89.5	166.1





#49

Dibromochloromethane

Concen: 18.701 ug/L

RT: 8.544 min Scan# 21

Delta R.T. -0.260 min

Lab File: VU058777.D

Acq: 23 Apr 2024 10:50

Instrument :

MSVOA_U

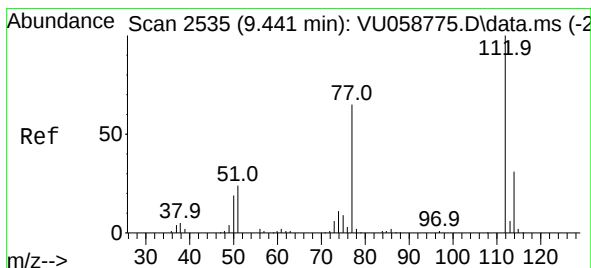
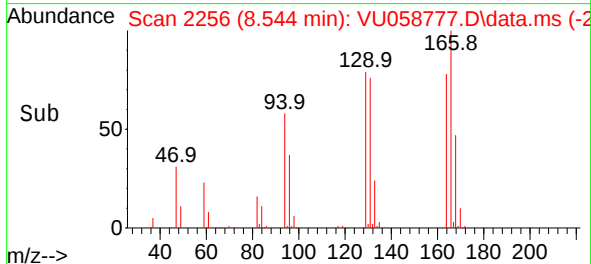
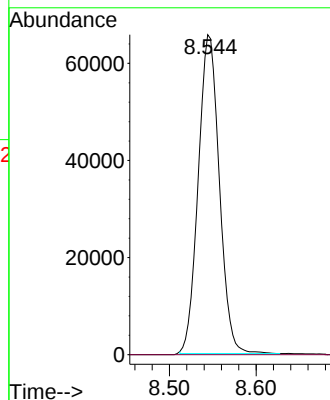
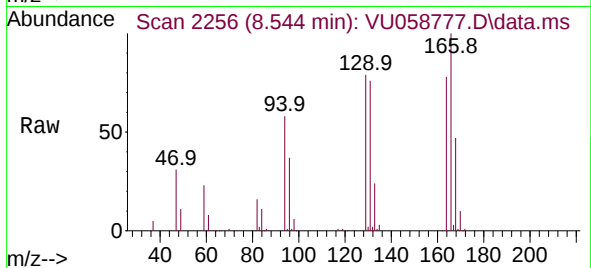
ClientSampleId :

Tgt Ion:129 Resp: 111031

Ion Ratio Lower Upper

129 100

127 0.0 51.0 94.8#



#51

Chlorobenzene

Concen: 12.076 ug/L

RT: 9.438 min Scan# 2534

Delta R.T. -0.003 min

Lab File: VU058777.D

Acq: 23 Apr 2024 10:50

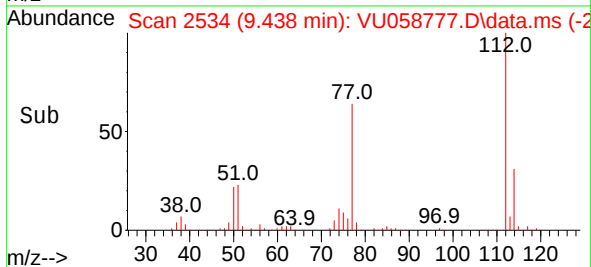
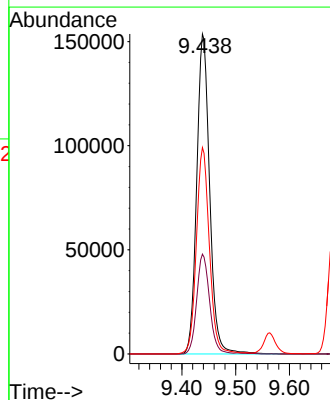
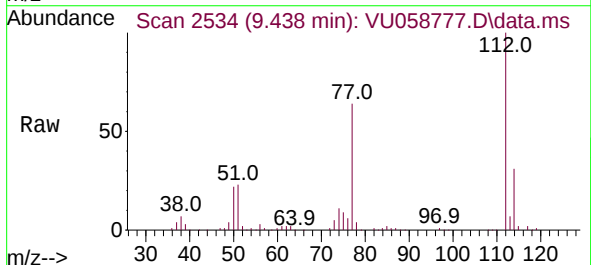
Tgt Ion:112 Resp: 256471

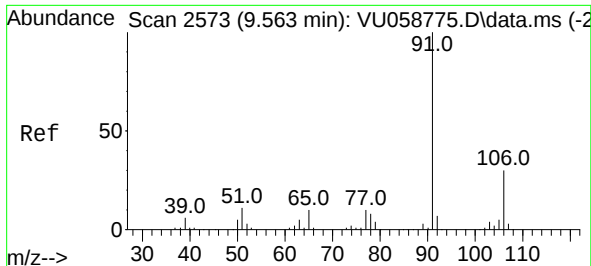
Ion Ratio Lower Upper

112 100

114 31.2 21.7 40.3

77 64.5 50.5 75.7





#52

Ethylbenzene

Concen: 4.238 ug/L

RT: 9.563 min Scan# 2573

Delta R.T. 0.000 min

Lab File: VU058777.D

Acq: 23 Apr 2024 10:50

Instrument :

MSVOA_U

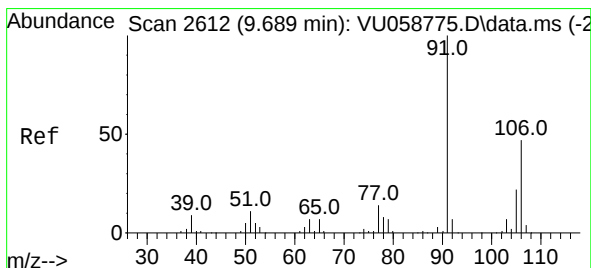
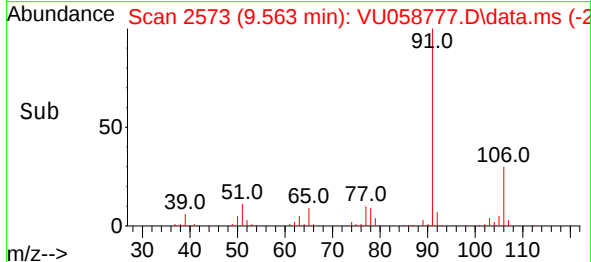
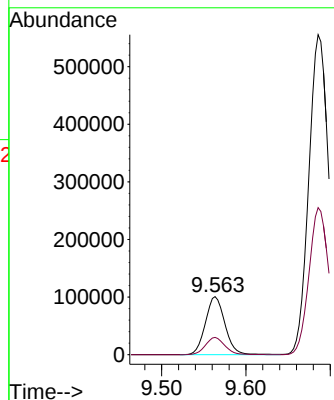
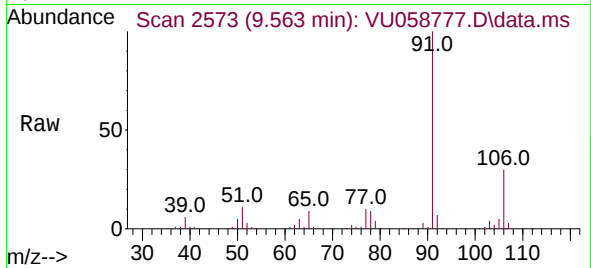
ClientSampleId :

Tgt Ion: 91 Resp: 162926

Ion Ratio Lower Upper

91 100

106 29.8 20.9 38.9



#53

m,p-Xylene

Concen: 30.104 ug/L

RT: 9.686 min Scan# 2611

Delta R.T. -0.003 min

Lab File: VU058777.D

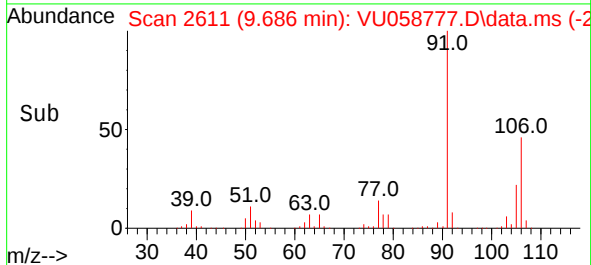
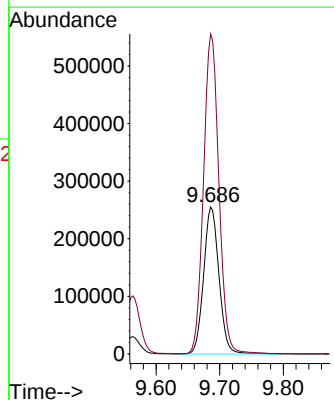
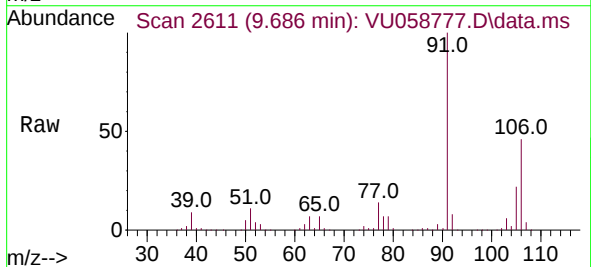
Acq: 23 Apr 2024 10:50

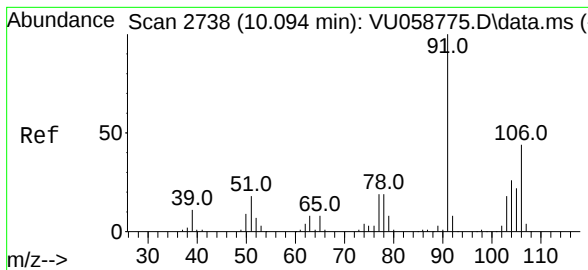
Tgt Ion:106 Resp: 425105

Ion Ratio Lower Upper

106 100

91 217.7 155.1 288.1

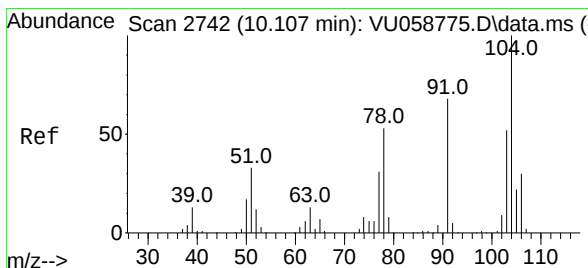
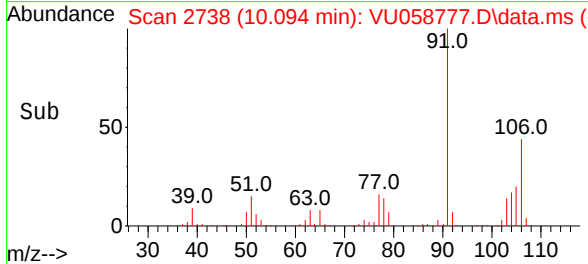
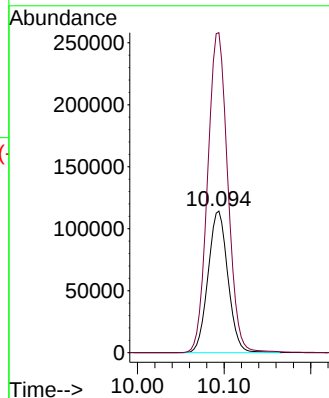
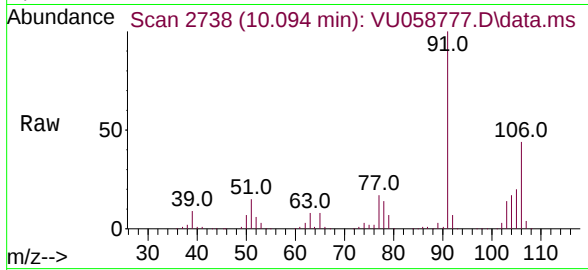




#54
o-Xylene
Concen: 13.598 ug/L
RT: 10.094 min Scan# 2738
Delta R.T. 0.000 min
Lab File: VU058777.D
Acq: 23 Apr 2024 10:50

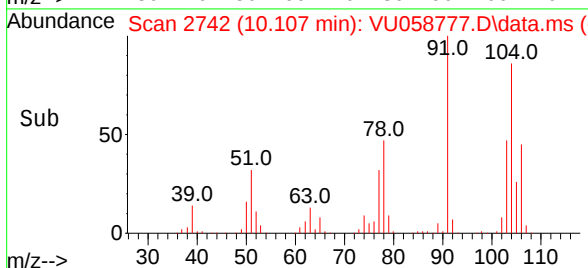
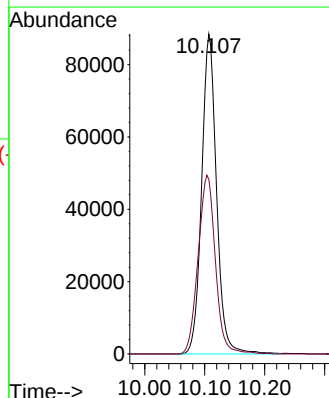
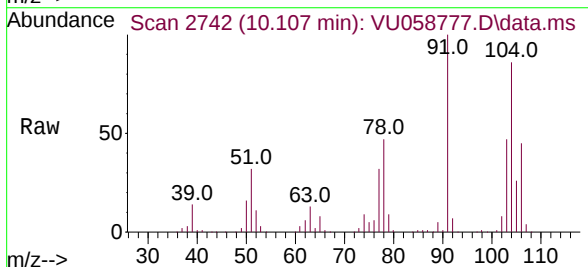
Instrument :
MSVOA_U
ClientSampleId :

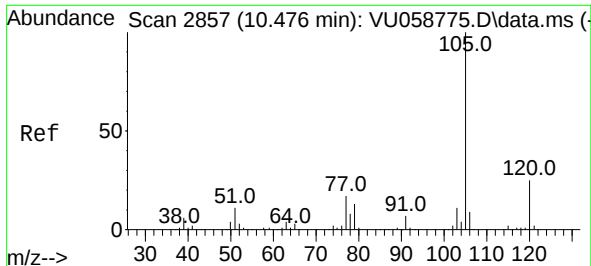
Tgt Ion:106 Resp: 182036
Ion Ratio Lower Upper
106 100
91 226.1 163.7 304.1



#55
Styrene
Concen: 7.021 ug/L
RT: 10.107 min Scan# 2742
Delta R.T. 0.000 min
Lab File: VU058777.D
Acq: 23 Apr 2024 10:50

Tgt Ion:104 Resp: 153111
Ion Ratio Lower Upper
104 100
78 54.5 37.1 68.9

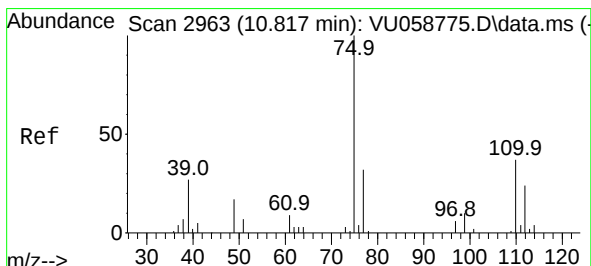
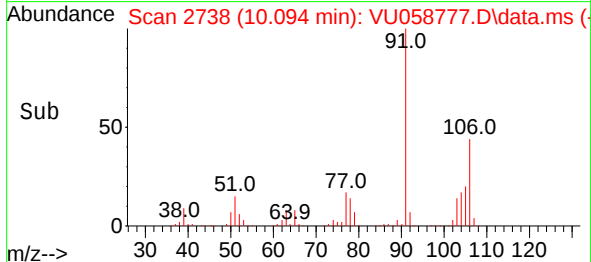
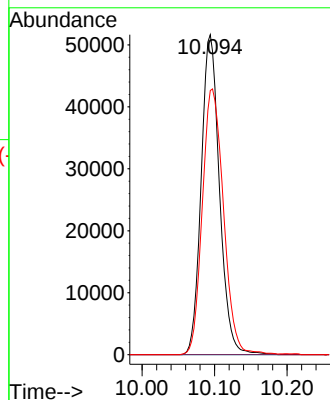
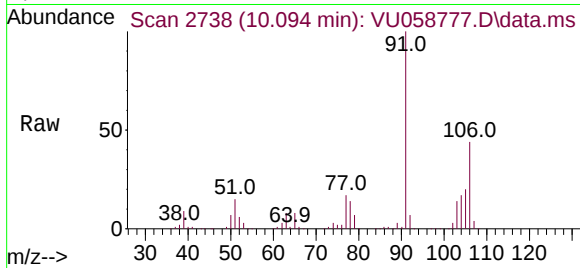




#60
Isopropylbenzene
Concen: 2.625 ug/L
RT: 10.094 min Scan# 21
Delta R.T. -0.382 min
Lab File: VU058777.D
Acq: 23 Apr 2024 10:50

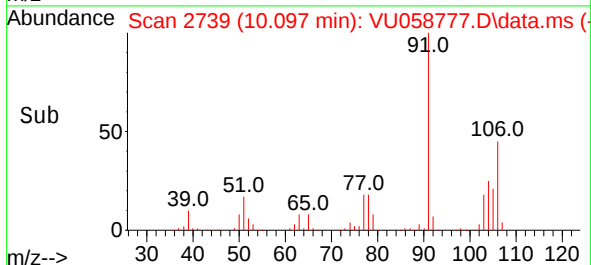
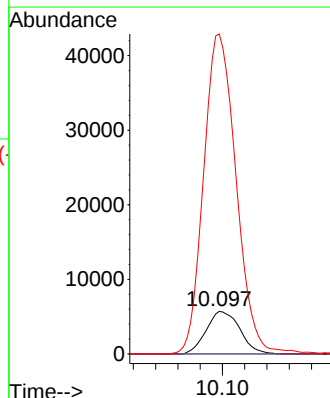
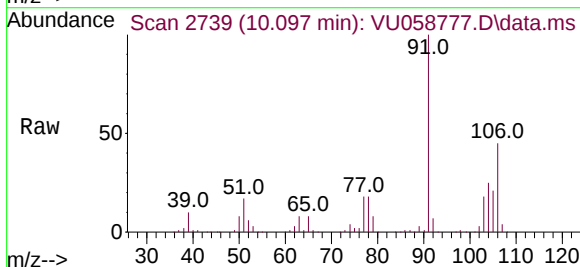
Instrument :
MSVOA_U
ClientSampleId :

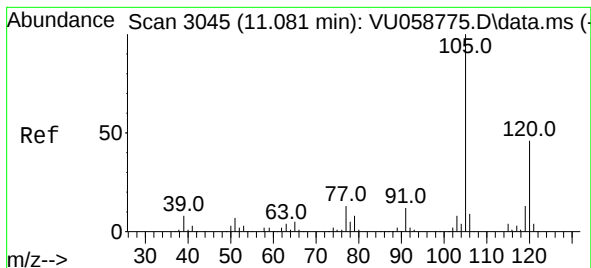
Tgt Ion:105 Resp: 90506
Ion Ratio Lower Upper
105 100
120 0.0 19.6 29.4#
77 96.3 13.8 20.8#



#61
1,2,3-Trichloropropane
Concen: 3.030 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. -0.720 min
Lab File: VU058777.D
Acq: 23 Apr 2024 10:50

Tgt Ion: 75 Resp: 11983
Ion Ratio Lower Upper
75 100
110 0.0 28.6 43.0#
77 727.4 25.4 38.2#





#62

1,3,5-Trimethylbenzene

Concen: 3.155 ug/L

RT: 10.094 min Scan# 21

Delta R.T. -0.987 min

Lab File: VU058777.D

Acq: 23 Apr 2024 10:50

Instrument :

MSVOA_U

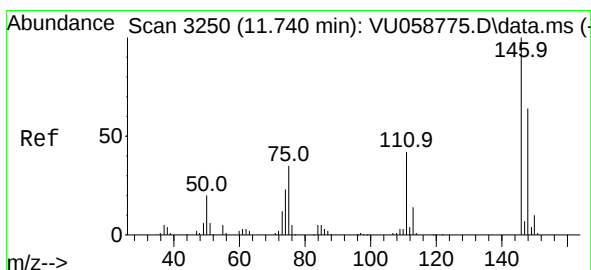
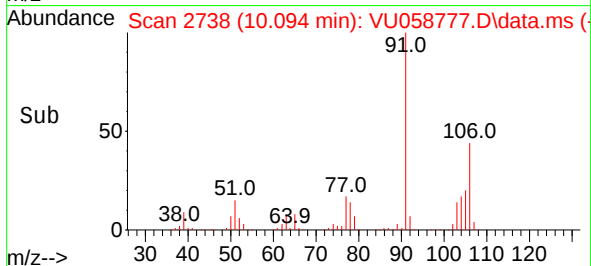
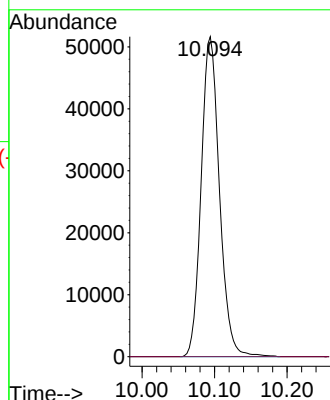
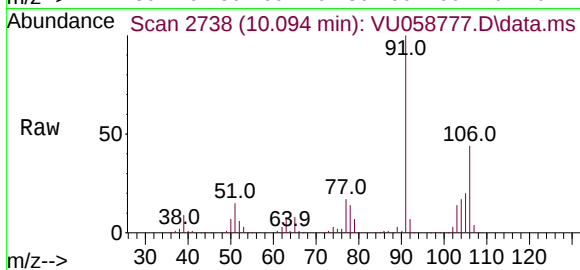
ClientSampleId :

Tgt Ion:105 Resp: 90506

Ion Ratio Lower Upper

105 100

120 0.0 36.2 54.4#



#64

1,3-Dichlorobenzene

Concen: 2.712 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. 0.090 min

Lab File: VU058777.D

Acq: 23 Apr 2024 10:50

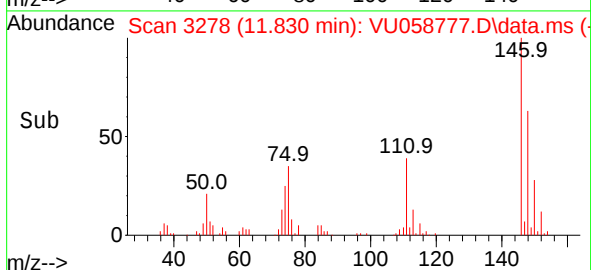
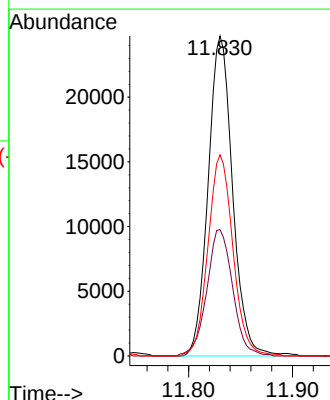
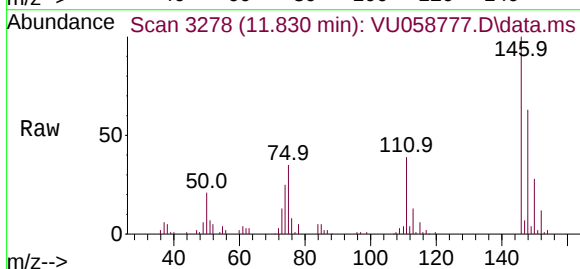
Tgt Ion:146 Resp: 40301

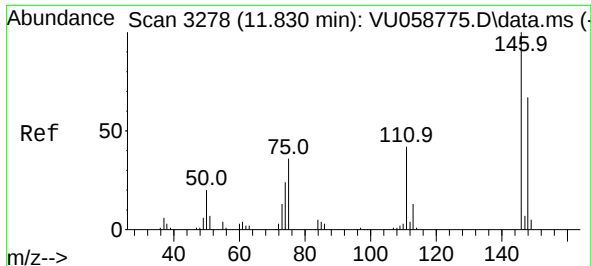
Ion Ratio Lower Upper

146 100

111 39.5 30.9 57.3

148 62.8 44.2 82.0





#65

1,4-Dichlorobenzene

Concen: 2.780 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. 0.000 min

Lab File: VU058777.D

Acq: 23 Apr 2024 10:50

Instrument :

MSVOA_U

ClientSampleId :

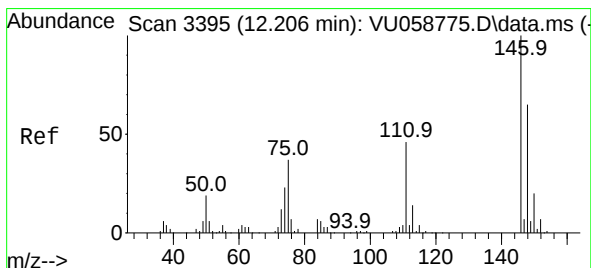
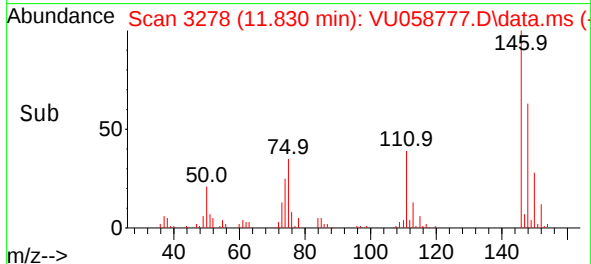
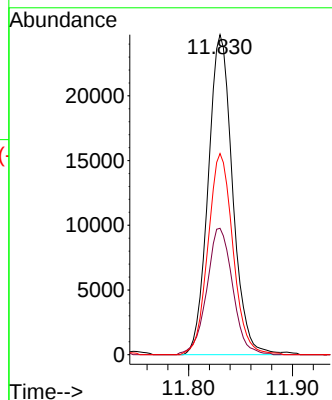
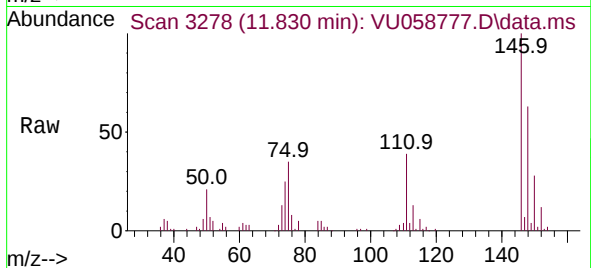
Tgt Ion:146 Resp: 40301

Ion Ratio Lower Upper

146 100

111 39.5 29.3 54.3

148 62.8 44.4 82.4



#67

1,2-Dichlorobenzene

Concen: 7.392 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. 0.000 min

Lab File: VU058777.D

Acq: 23 Apr 2024 10:50

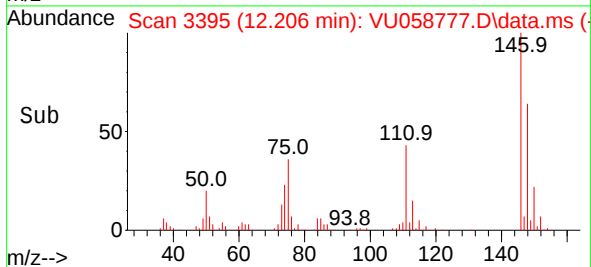
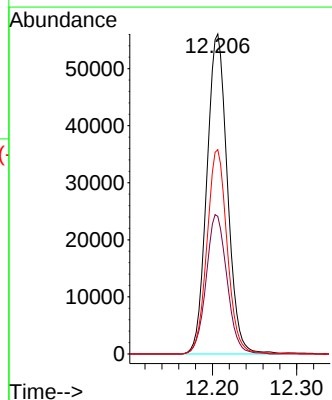
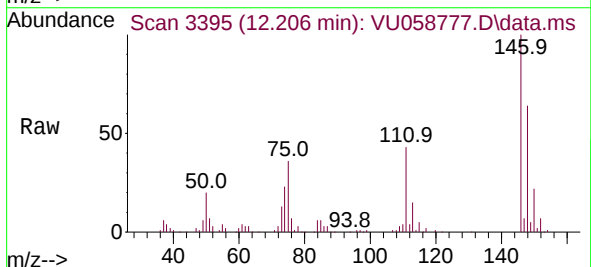
Tgt Ion:146 Resp: 95083

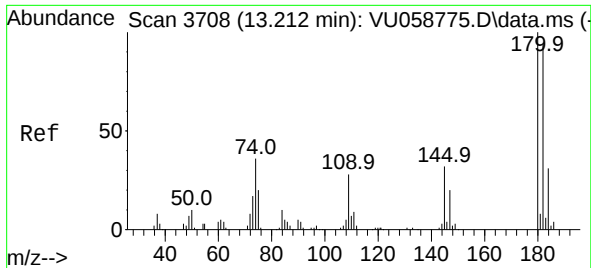
Ion Ratio Lower Upper

146 100

111 43.0 35.7 53.5

148 63.9 51.6 77.4





#69

1,3,5-Trichlorobenzene

Concen: 3.430 ug/L

RT: 13.837 min Scan# 3902

Delta R.T. 0.624 min

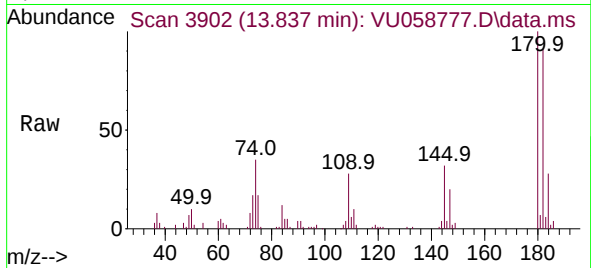
Lab File: VU058777.D

Acq: 23 Apr 2024 10:50

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 36455

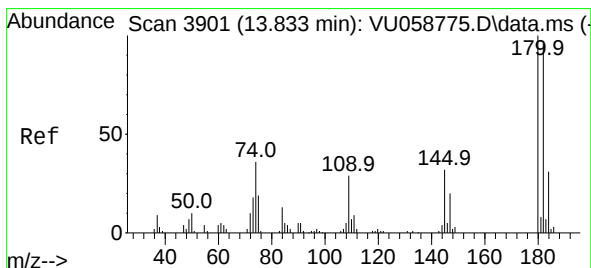
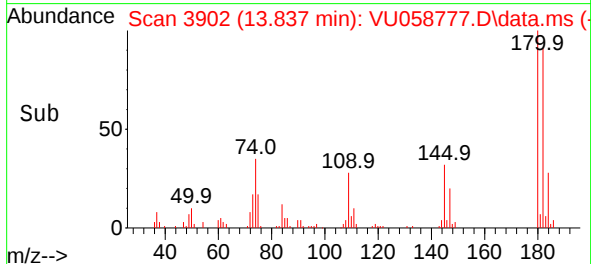
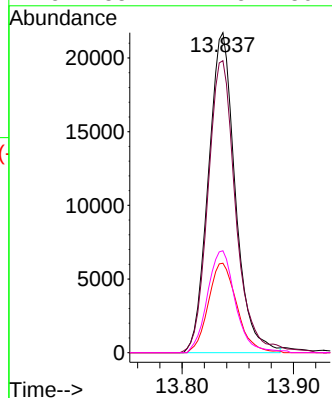
Ion Ratio Lower Upper

180 100

182 94.3 75.9 113.9

184 29.6 24.7 37.1

145 33.1 24.5 36.7



#70

1,2,4-trichlorobenzene

Concen: 4.934 ug/L

RT: 13.837 min Scan# 3902

Delta R.T. 0.004 min

Lab File: VU058777.D

Acq: 23 Apr 2024 10:50

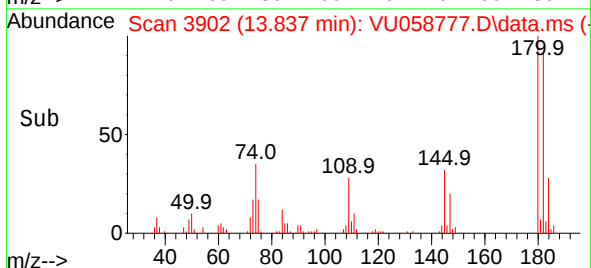
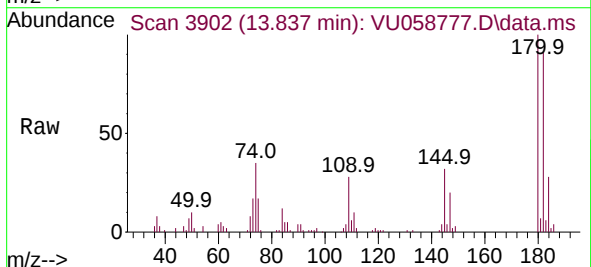
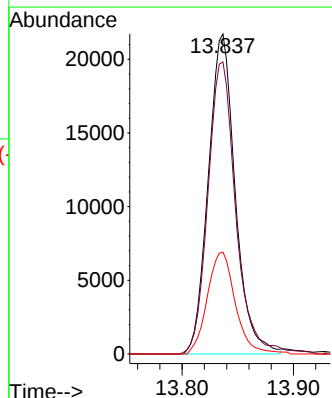
Tgt Ion:180 Resp: 36455

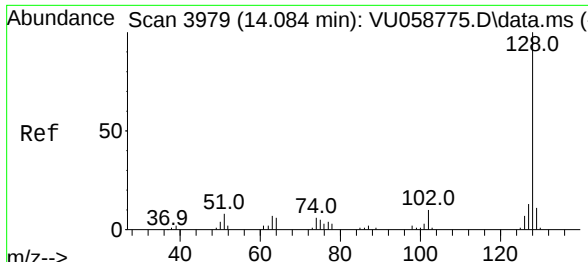
Ion Ratio Lower Upper

180 100

182 94.3 75.9 113.9

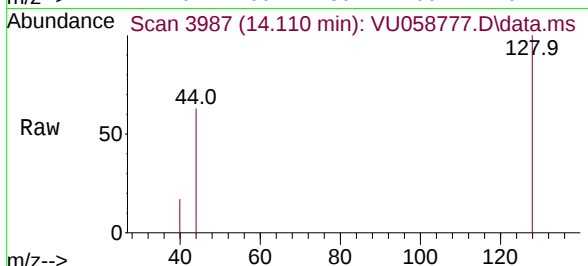
145 33.1 25.7 38.5





#71
 Naphthalene
 Concen: 0.132 ug/L
 RT: 14.110 min Scan# 3987
 Delta R.T. 0.026 min
 Lab File: VU058777.D
 Acq: 23 Apr 2024 10:50

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	128	Resp:	1177
Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.2	12.4#
127	1.8	10.8	16.2#

