

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU073124\
 Data File : VU060279.D
 Acq On : 31 Jul 2024 13:13
 Operator : MD/SY
 Sample : P3287-10
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Aug 01 00:21:28 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM070224WMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Aug 01 00:19:02 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	234605	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	240818	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	108563	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	88675	58.868	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	117.740%
7) Chloroethane-d5	1.901	69	69506	54.858	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	109.720%
11) 1,1-Dichloroethene-d2	2.560	63	114791	42.895	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	85.800%
21) 2-Butanone-d5	4.615	46	111024	106.057	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	106.060%
24) Chloroform-d	5.052	84	139352	47.772	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.540%
26) 1,2-Dichloroethane-d4	5.692	65	86030	49.601	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.200%
32) Benzene-d6	5.718	84	283602	45.990	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.980%
36) 1,2-Dichloropropane-d6	6.682	67	96655	50.643	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	101.280%
41) Toluene-d8	7.891	98	260968	44.501	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.000%
43) trans-1,3-Dichloroprop...	8.174	79	41195	46.126	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.260%
47) 2-Hexanone-d5	8.627	63	68667	85.370	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	85.370%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	140128	47.835	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.660%
66) 1,2-Dichlorobenzene-d4	12.187	152	89274	44.750	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.500%
Target Compounds						
					Qvalue	
3) Chloromethane	1.518	50	29244	20.454	ug/L	99
12) 1,1-Dichloroethene	2.573	96	28213	20.282	ug/L #	75
13) Acetone	2.618	43	23729	22.013	ug/L	99
16) Methylene chloride	3.036	84	59993	34.201	ug/L	96
18) Methyl tert-butyl Ether	3.354	73	254001	54.609	ug/L	98
20) cis-1,2-Dichloroethene	4.657	96	26034	15.013	ug/L	96
25) Chloroform	5.078	83	34627	11.847	ug/L	92
27) 1,2-Dichloroethane	5.788	62	70163	31.621	ug/L	100
34) Trichloroethene	6.534	95	57314	33.027	ug/L	94
37) 1,2-Dichloropropane	6.782	63	79275	44.289	ug/L	99
39) cis-1,3-Dichloropropene	7.602	75	83213	30.385	ug/L	99
40) 4-Methyl-2-pentanone	7.782	43	152469	67.395	ug/L	96
42) Toluene	7.962	91	382088	53.820	ug/L	99
44) trans-1,3-Dichloropropene	8.206	75	27511	10.936	ug/L	98
45) 1,1,2-Trichloroethane	8.393	97	58150	31.020	ug/L	98
46) Tetrachloroethene	8.547	164	17174	12.030	ug/L	97
48) 2-Hexanone	8.679	43	115814	61.167	ug/L	99
49) Dibromochloromethane	8.801	129	75539	40.898	ug/L	100
50) 1,2-Dibromoethane	8.917	107	55603	28.369	ug/L	98

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

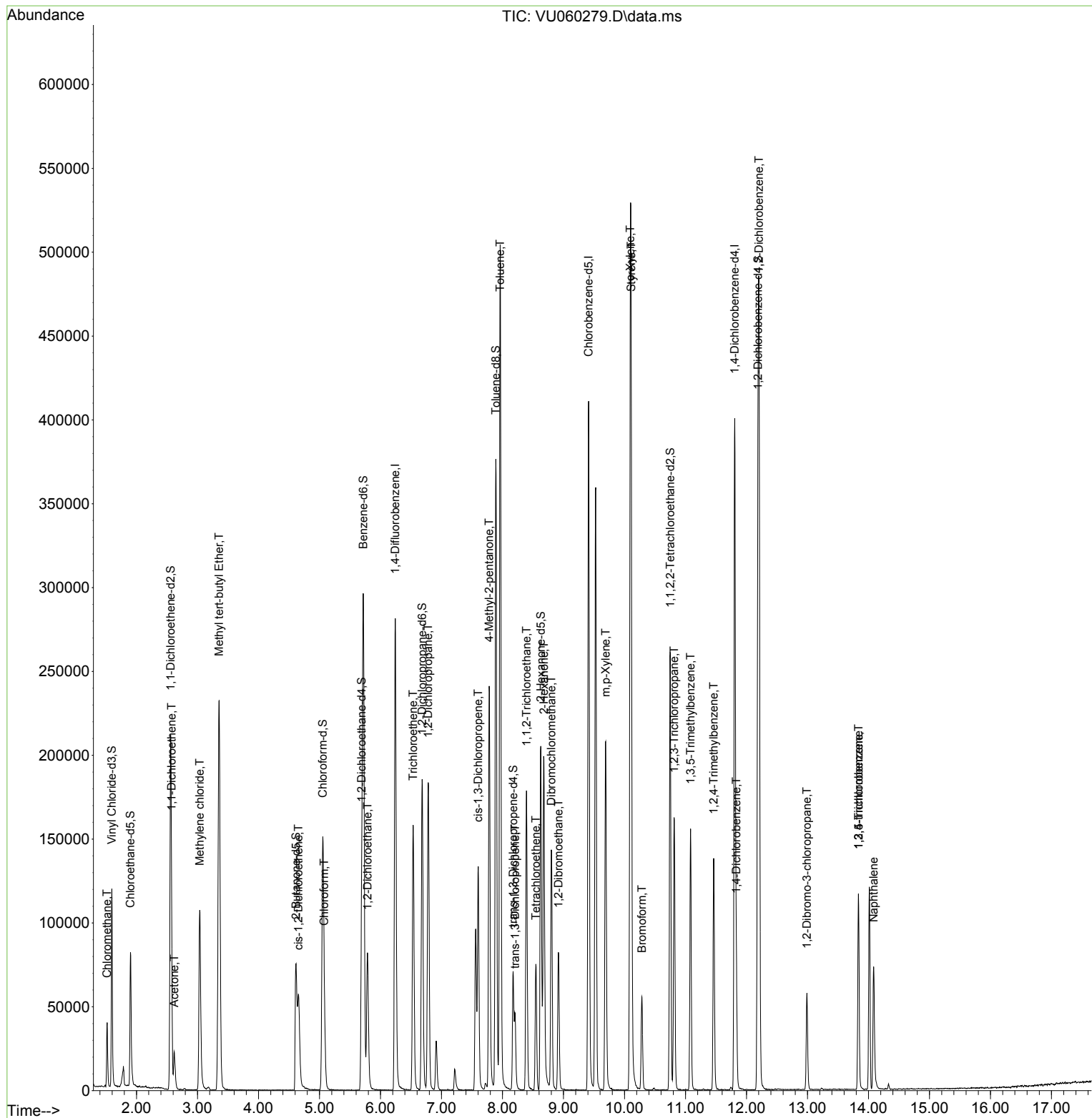
53) m,p-Xylene	9.692	106	60217	20.400	ug/L	93
54) o-Xylene	10.094	106	97292	34.275	ug/L	94
55) Styrene	10.110	104	170219	35.545	ug/L	100
59) Bromoform	10.287	173	25799	19.654	ug/L	97
60) 1,2,3-Trichloropropane	10.814	75	72389	35.134	ug/L	97
62) 1,3,5-Trimethylbenzene	11.084	105	83690	18.065	ug/L	99
63) 1,2,4-Trimethylbenzene	11.463	105	76355	15.387	ug/L	96
65) 1,4-Dichlorobenzene	11.833	146	27373	8.068	ug/L	97
67) 1,2-Dichlorobenzene	12.206	146	164185	49.521	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.991	75	16177	28.710	ug/L	86
69) 1,3,5-Trichlorobenzene	13.836	180	37416	15.812	ug/L	99
70) 1,2,4-trichlorobenzene	13.836	180	37416	17.544	ug/L	99
71) Naphthalene	14.084	128	68442	11.105	ug/L	98

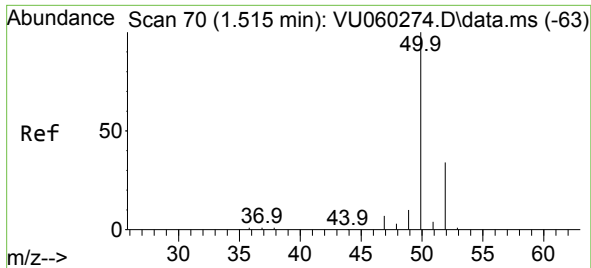
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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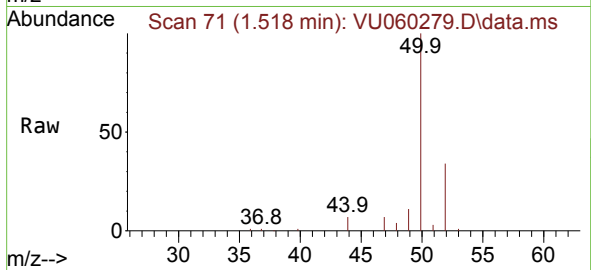
Quant Time: Aug 01 00:21:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM070224WMA.M
Quant Title : VOC Analysis
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Response via : Initial Calibration



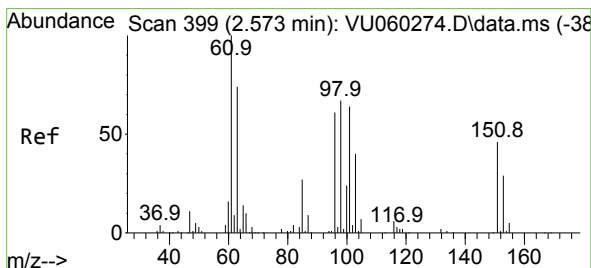
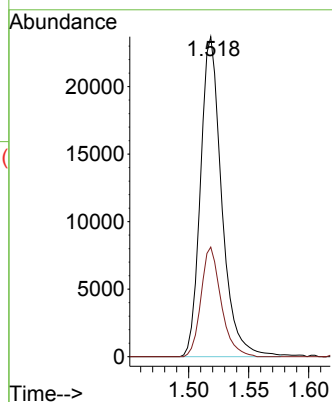
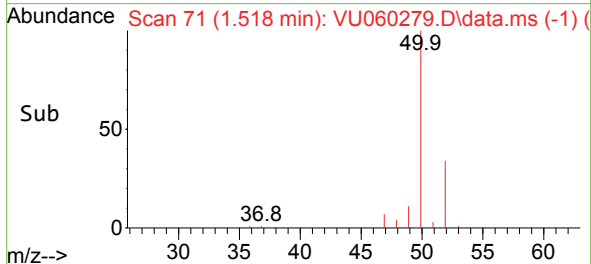


#3
Chloromethane
Concen: 20.454 ug/L
RT: 1.518 min Scan# 70
Delta R.T. 0.003 min
Lab File: VU060279.D
Acq: 31 Jul 2024 13:13

Instrument :
MSVOA_U
ClientSampleId :

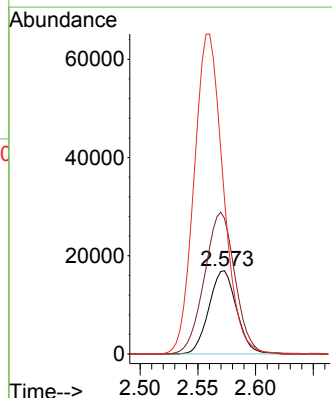
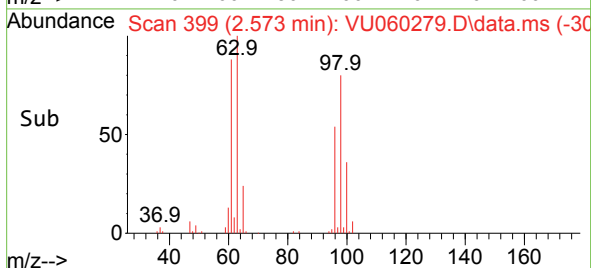
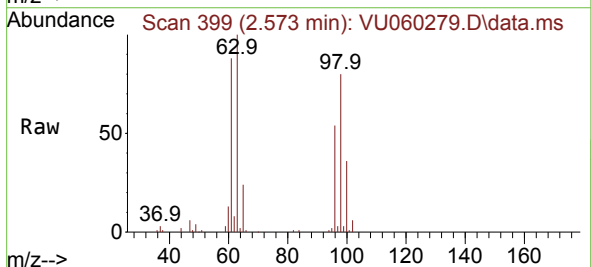


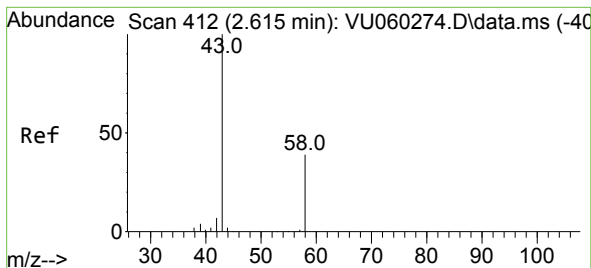
Tgt Ion: 50 Resp: 29244
Ion Ratio Lower Upper
50 100
52 34.2 24.5 45.5



#12
1,1-Dichloroethene
Concen: 20.282 ug/L
RT: 2.573 min Scan# 399
Delta R.T. -0.000 min
Lab File: VU060279.D
Acq: 31 Jul 2024 13:13

Tgt Ion: 96 Resp: 28213
Ion Ratio Lower Upper
96 100
61 163.0 112.2 208.4
63 185.7 87.4 162.2#





#13

Acetone

Concen: 22.013 ug/L

RT: 2.618 min Scan# 41

Delta R.T. 0.003 min

Lab File: VU060279.D

Acq: 31 Jul 2024 13:13

Instrument :

MSVOA_U

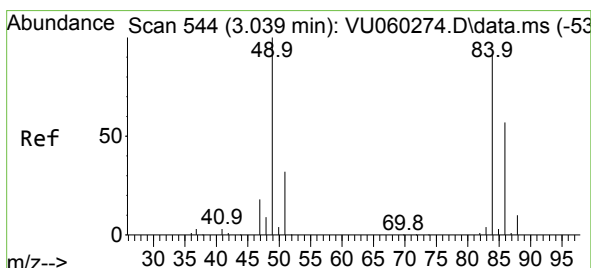
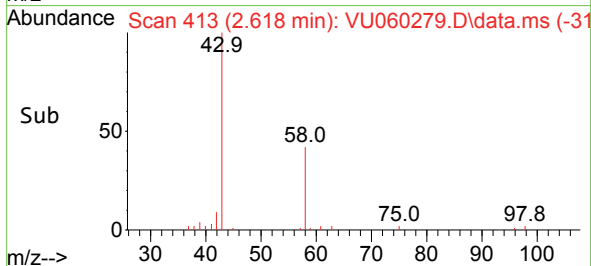
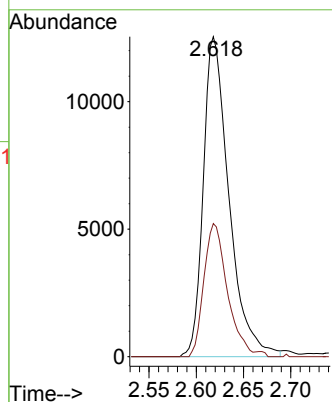
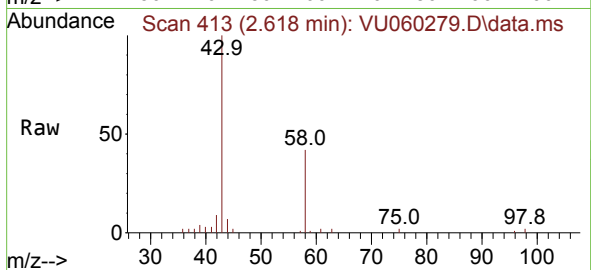
ClientSampleId :

Tgt Ion: 43 Resp: 23729

Ion Ratio Lower Upper

43 100

58 37.8 0.0 73.8



#16

Methylene chloride

Concen: 34.201 ug/L

RT: 3.036 min Scan# 543

Delta R.T. -0.003 min

Lab File: VU060279.D

Acq: 31 Jul 2024 13:13

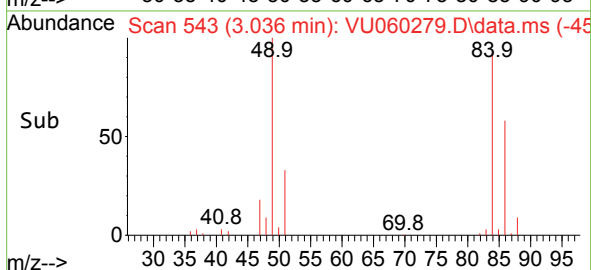
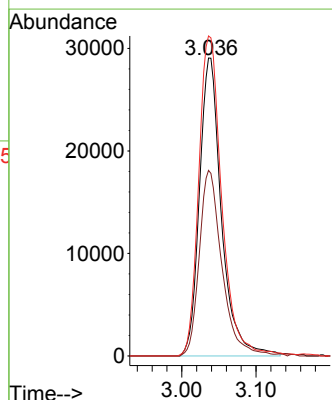
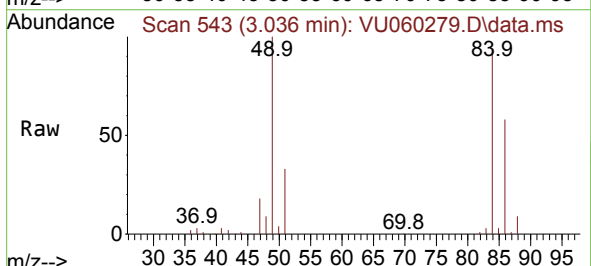
Tgt Ion: 84 Resp: 59993

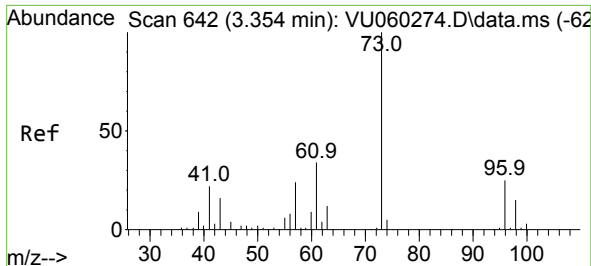
Ion Ratio Lower Upper

84 100

86 62.3 44.7 83.1

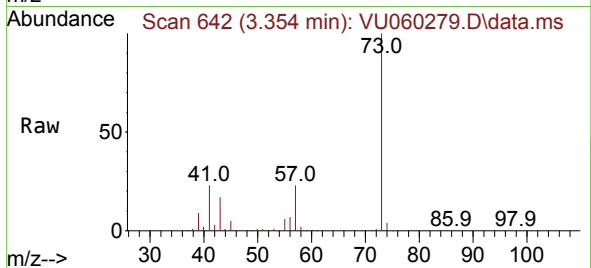
49 107.4 71.6 133.0



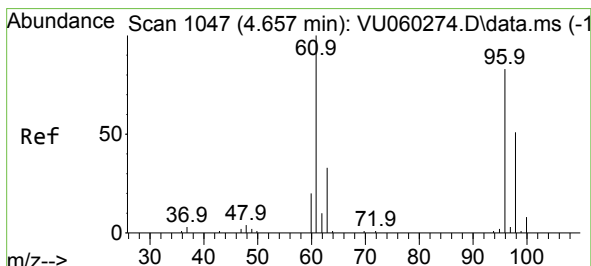
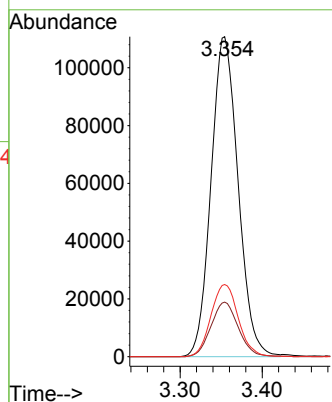
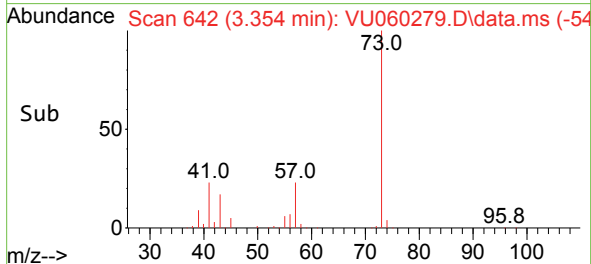


#18
Methyl tert-butyl Ether
Concen: 54.609 ug/L
RT: 3.354 min Scan# 642
Delta R.T. -0.000 min
Lab File: VU060279.D
Acq: 31 Jul 2024 13:13

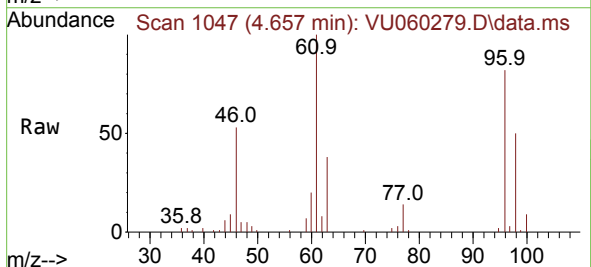
Instrument :
MSVOA_U
ClientSampleId :



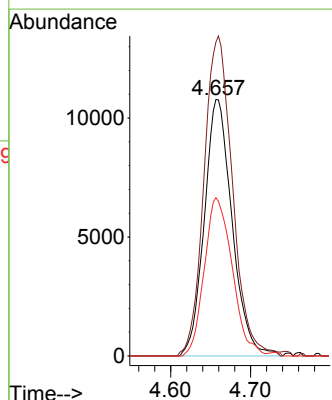
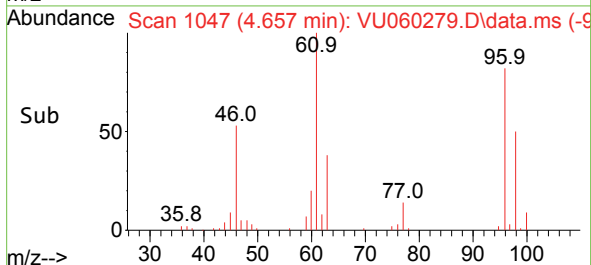
Tgt Ion: 73 Resp: 254001
Ion Ratio Lower Upper
73 100
43 17.3 14.1 21.1
57 22.9 17.1 25.7

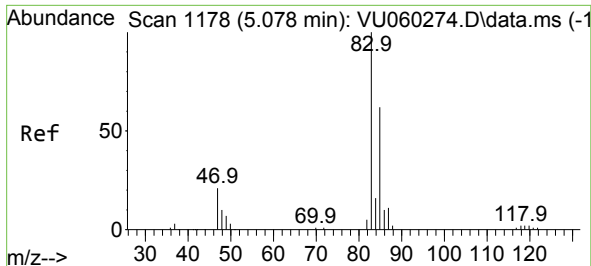


#20
cis-1,2-Dichloroethene
Concen: 15.013 ug/L
RT: 4.657 min Scan# 1047
Delta R.T. -0.000 min
Lab File: VU060279.D
Acq: 31 Jul 2024 13:13



Tgt Ion: 96 Resp: 26034
Ion Ratio Lower Upper
96 100
61 122.3 83.2 154.4
98 61.7 45.9 85.3

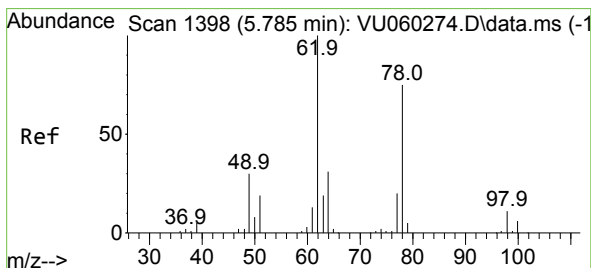
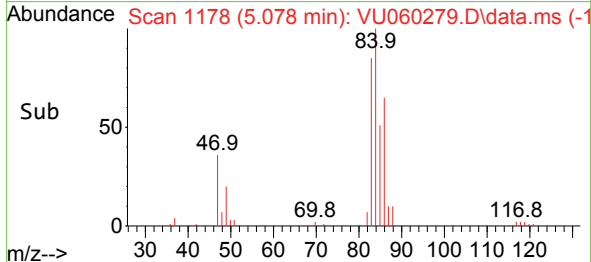
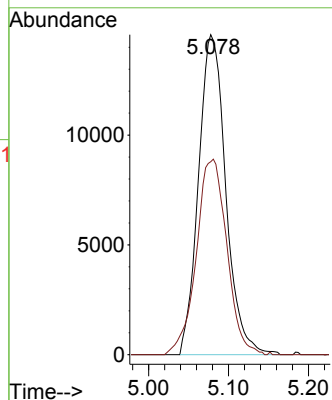
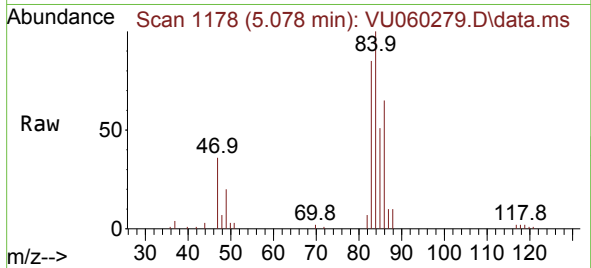




#25
Chloroform
Concen: 11.847 ug/L
RT: 5.078 min Scan# 1178
Delta R.T. -0.000 min
Lab File: VU060279.D
Acq: 31 Jul 2024 13:13

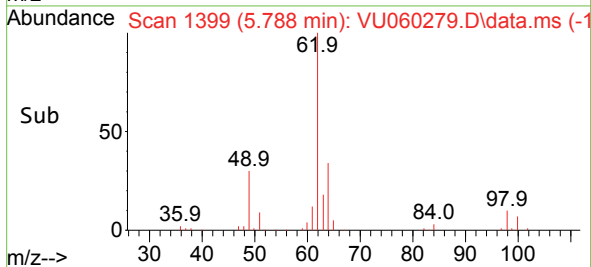
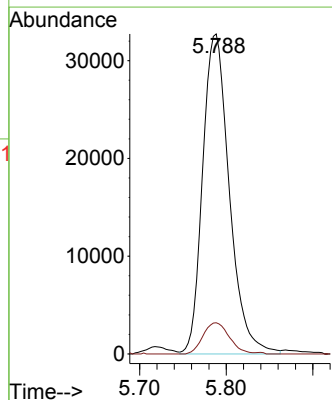
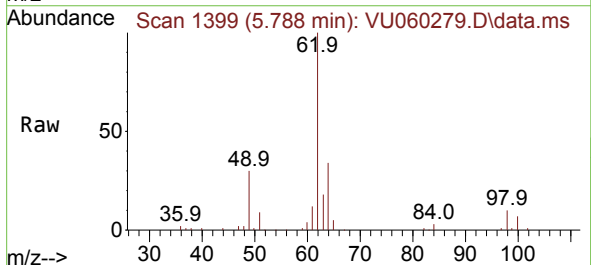
Instrument :
MSVOA_U
ClientSampleId :

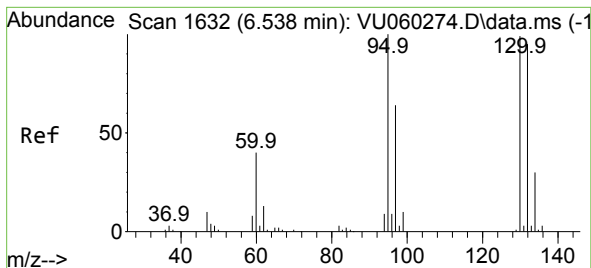
Tgt Ion: 83 Resp: 34627
Ion Ratio Lower Upper
83 100
85 60.3 46.7 86.7



#27
1,2-Dichloroethane
Concen: 31.621 ug/L
RT: 5.788 min Scan# 1399
Delta R.T. 0.003 min
Lab File: VU060279.D
Acq: 31 Jul 2024 13:13

Tgt Ion: 62 Resp: 70163
Ion Ratio Lower Upper
62 100
98 9.8 7.8 11.8





#34

Trichloroethene

Concen: 33.027 ug/L

RT: 6.534 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU060279.D

Acq: 31 Jul 2024 13:13

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 57314

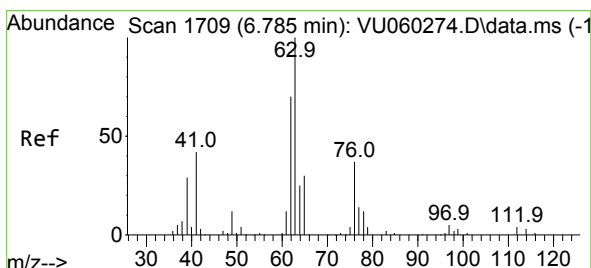
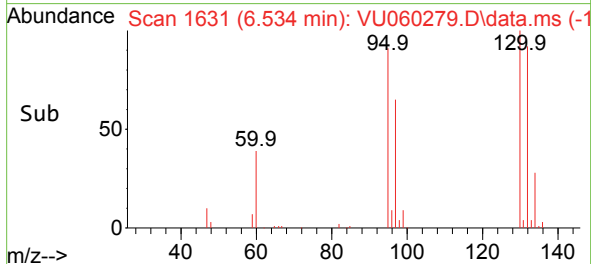
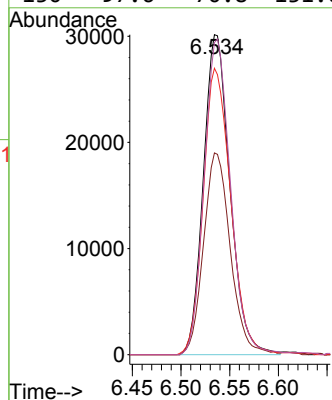
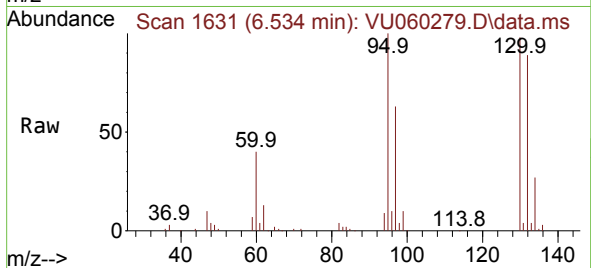
Ion Ratio Lower Upper

95 100

97 63.0 45.8 85.2

132 89.5 69.8 129.6

130 97.6 70.8 131.6



#37

1,2-Dichloropropane

Concen: 44.289 ug/L

RT: 6.782 min Scan# 1708

Delta R.T. -0.003 min

Lab File: VU060279.D

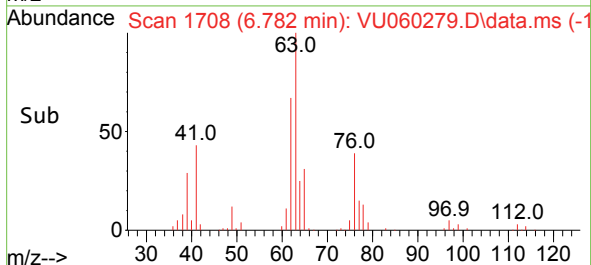
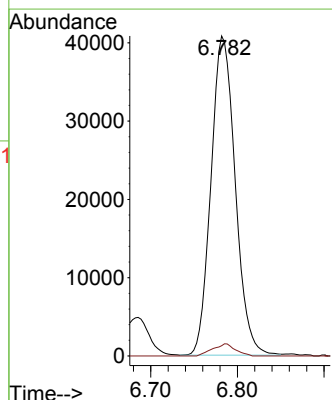
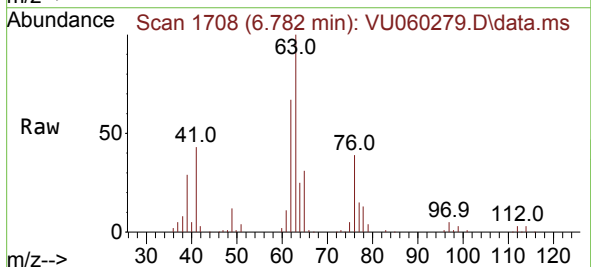
Acq: 31 Jul 2024 13:13

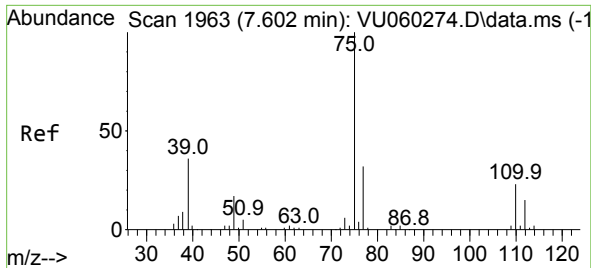
Tgt Ion: 63 Resp: 79275

Ion Ratio Lower Upper

63 100

112 3.6 3.0 4.6





#39

cis-1,3-Dichloropropene

Concen: 30.385 ug/L

RT: 7.602 min Scan# 1963

Delta R.T. -0.000 min

Lab File: VU060279.D

Acq: 31 Jul 2024 13:13

Instrument :

MSVOA_U

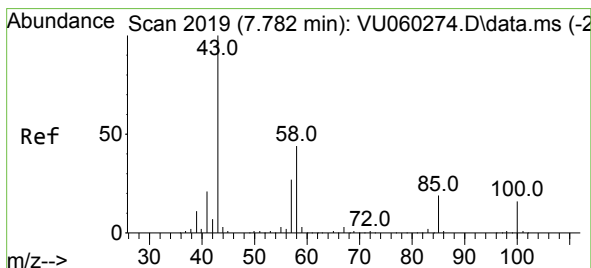
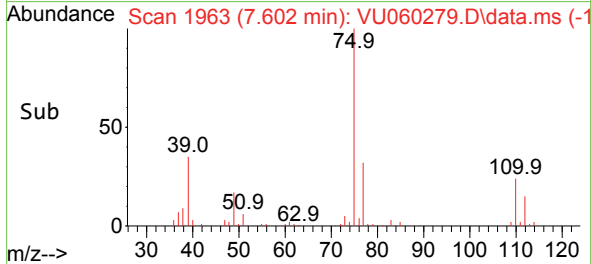
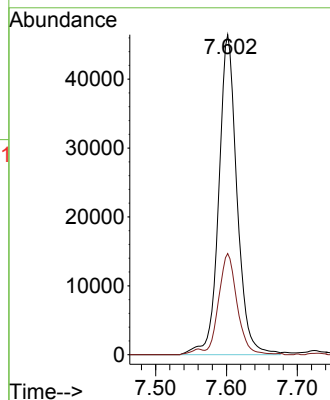
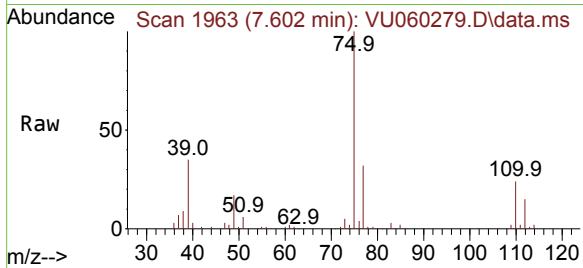
ClientSampleId :

Tgt Ion: 75 Resp: 83213

Ion Ratio Lower Upper

75 100

77 31.6 21.6 40.2



#40

4-Methyl-2-pentanone

Concen: 67.395 ug/L

RT: 7.782 min Scan# 2019

Delta R.T. -0.000 min

Lab File: VU060279.D

Acq: 31 Jul 2024 13:13

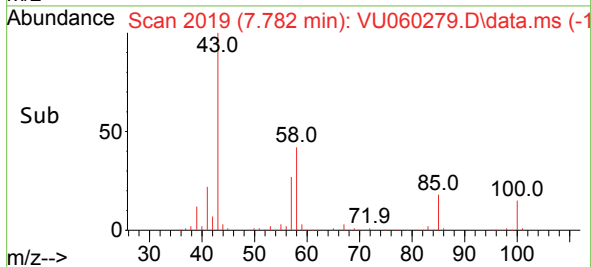
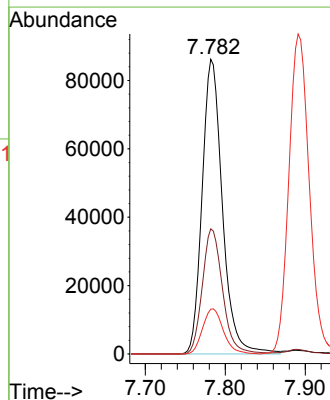
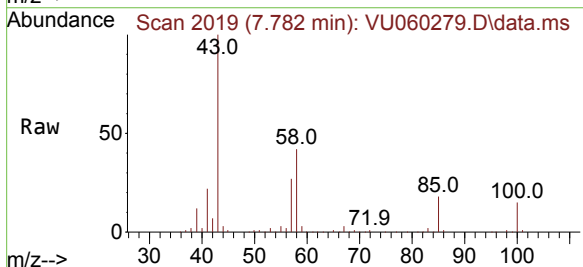
Tgt Ion: 43 Resp: 152469

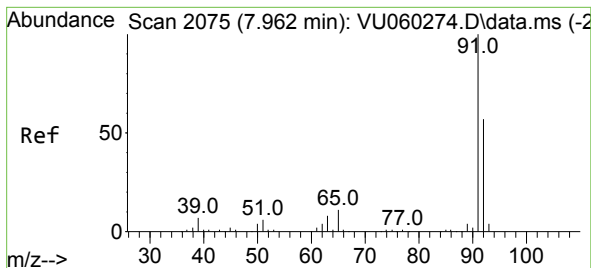
Ion Ratio Lower Upper

43 100

58 42.3 35.3 52.9

100 15.7 14.6 22.0





#42

Toluene

Concen: 53.820 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. -0.000 min

Lab File: VU060279.D

Acq: 31 Jul 2024 13:13

Instrument :

MSVOA_U

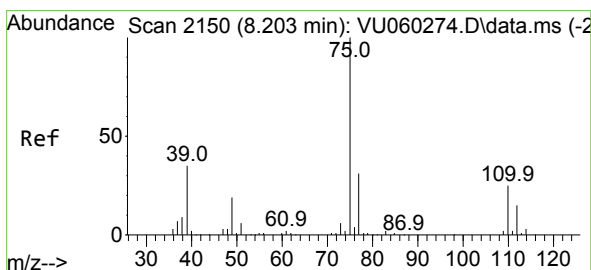
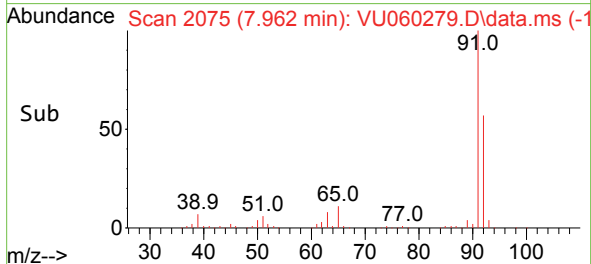
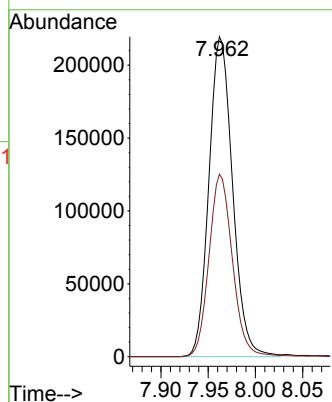
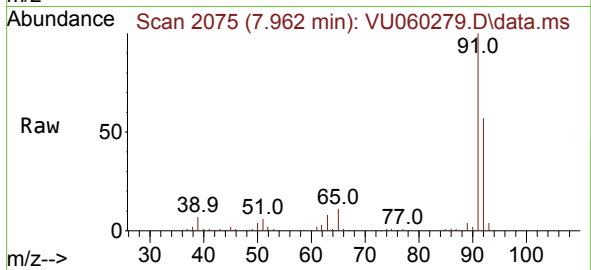
ClientSampleId :

Tgt Ion: 91 Resp: 382088

Ion Ratio Lower Upper

91 100

92 57.1 39.3 72.9



#44

trans-1,3-Dichloropropene

Concen: 10.936 ug/L

RT: 8.206 min Scan# 2151

Delta R.T. 0.003 min

Lab File: VU060279.D

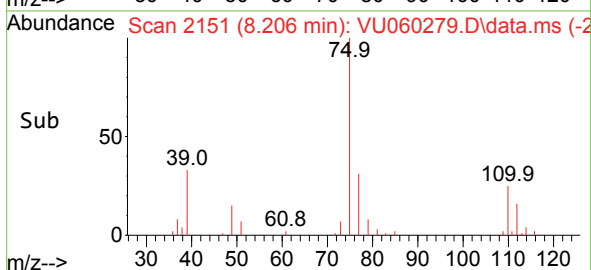
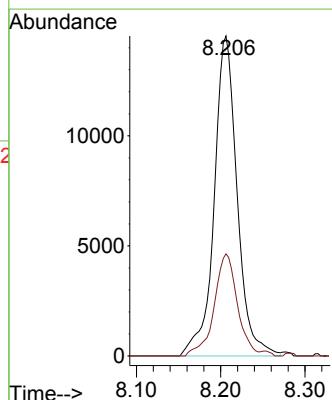
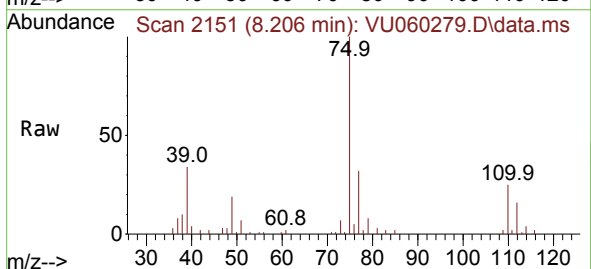
Acq: 31 Jul 2024 13:13

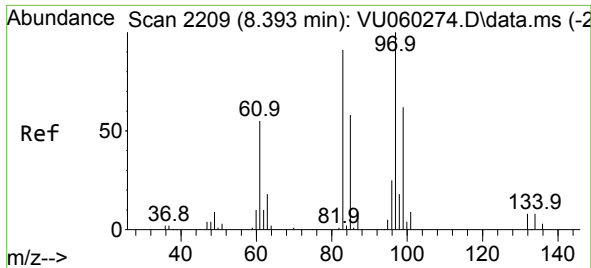
Tgt Ion: 75 Resp: 27511

Ion Ratio Lower Upper

75 100

77 31.9 21.7 40.3

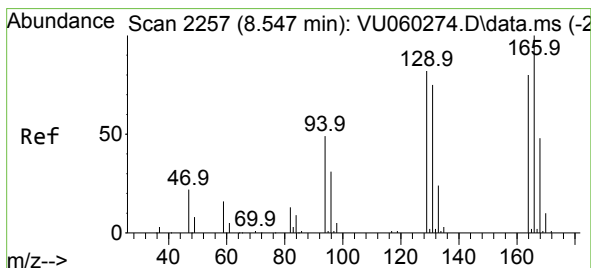
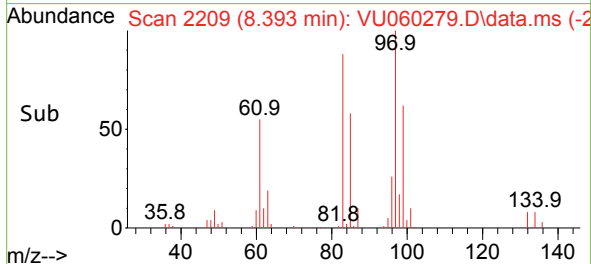
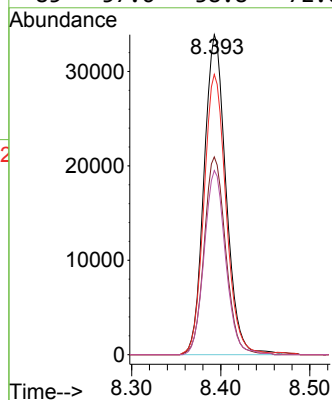
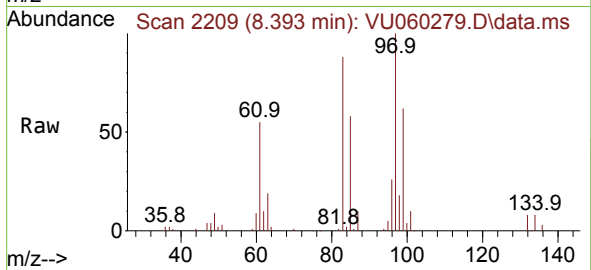




#45
1,1,2-Trichloroethane
Concen: 31.020 ug/L
RT: 8.393 min Scan# 2209
Delta R.T. -0.000 min
Lab File: VU060279.D
Acq: 31 Jul 2024 13:13

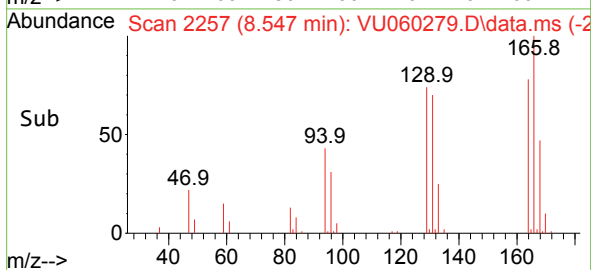
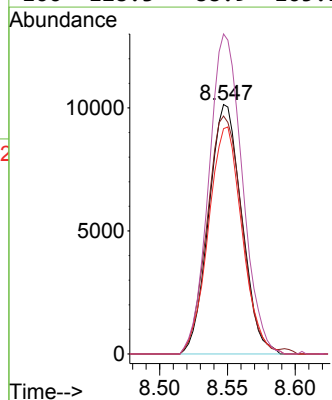
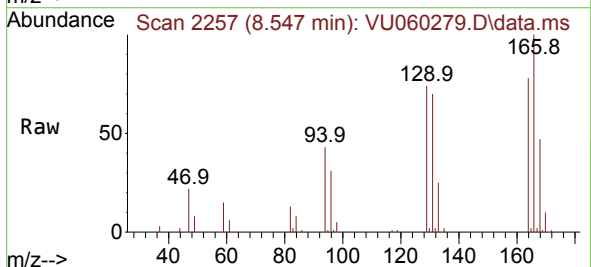
Instrument :
MSVOA_U
ClientSampleId :

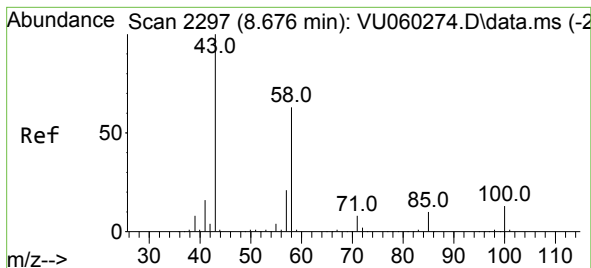
Tgt Ion: 97	Resp: 58150
Ion Ratio	Lower Upper
97 100	
99 61.8	43.1 80.1
83 87.6	60.4 112.2
85 57.6	38.8 72.0



#46
Tetrachloroethene
Concen: 12.030 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. -0.000 min
Lab File: VU060279.D
Acq: 31 Jul 2024 13:13

Tgt Ion: 164	Resp: 17174
Ion Ratio	Lower Upper
164 100	
129 95.4	62.7 116.5
131 90.3	62.3 115.7
166 128.3	88.9 165.1





#48

2-Hexanone

Concen: 61.167 ug/L

RT: 8.679 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU060279.D

Acq: 31 Jul 2024 13:13

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 43 Resp: 115814

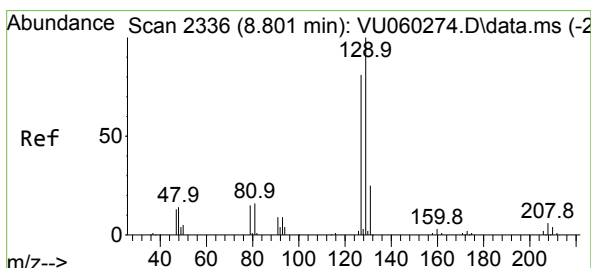
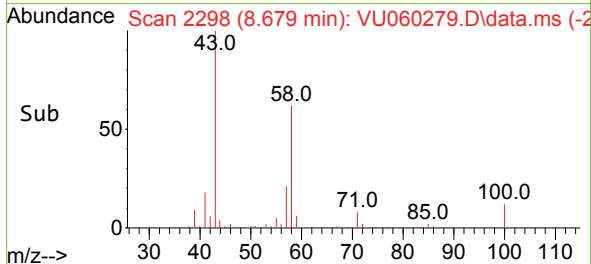
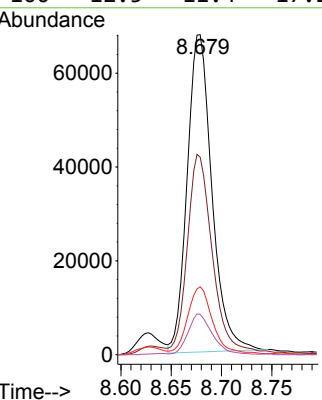
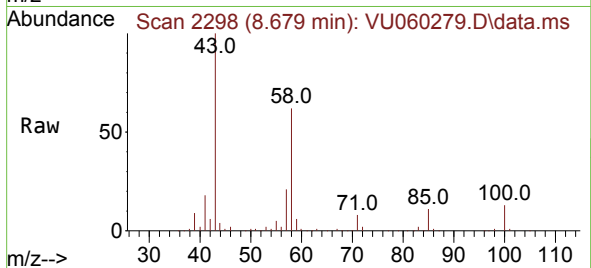
Ion Ratio Lower Upper

43 100

58 61.8 49.0 73.6

57 20.2 16.7 25.1

100 12.5 11.4 17.2



#49

Dibromochloromethane

Concen: 40.898 ug/L

RT: 8.801 min Scan# 2336

Delta R.T. -0.000 min

Lab File: VU060279.D

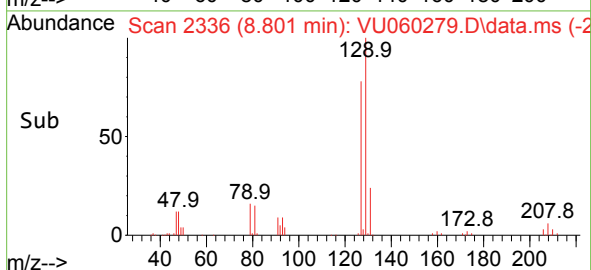
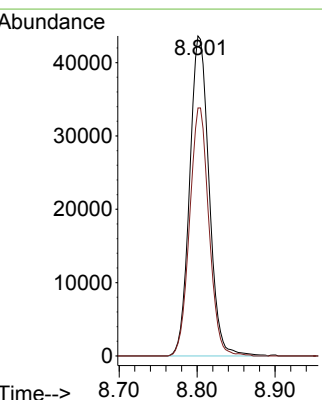
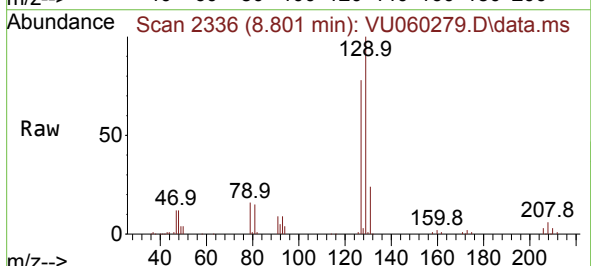
Acq: 31 Jul 2024 13:13

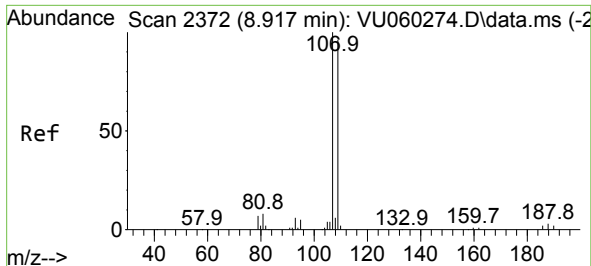
Tgt Ion:129 Resp: 75539

Ion Ratio Lower Upper

129 100

127 77.5 54.0 100.2





#50

1,2-Dibromoethane

Concen: 28.369 ug/L

RT: 8.917 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU060279.D

Acq: 31 Jul 2024 13:13

Instrument :

MSVOA_U

ClientSampleId :

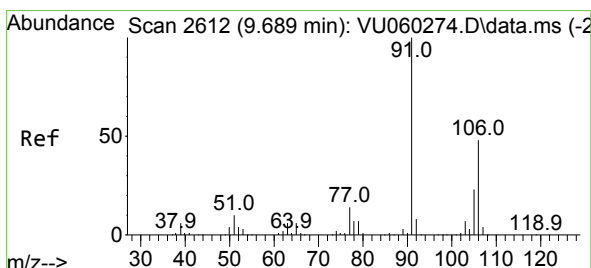
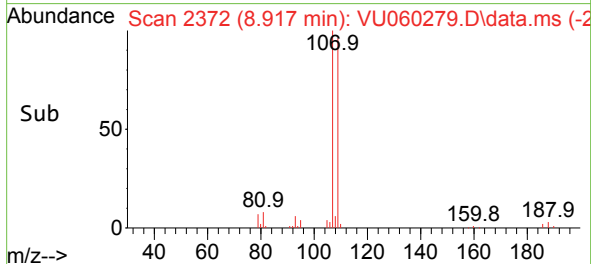
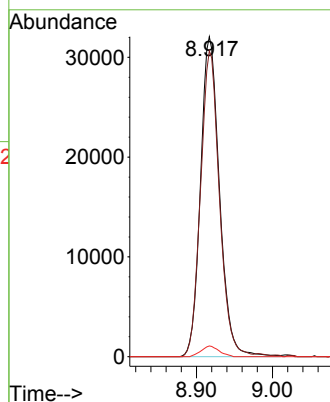
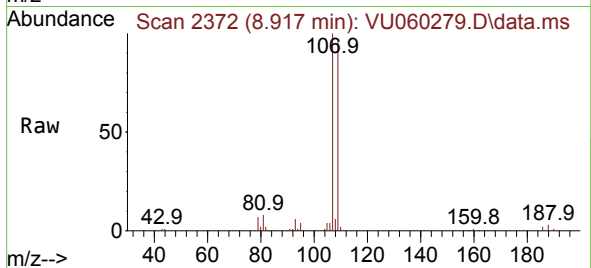
Tgt Ion:107 Resp: 55603

Ion Ratio Lower Upper

107 100

109 95.6 65.5 121.6

188 3.3 3.0 4.4



#53

m,p-Xylene

Concen: 20.400 ug/L

RT: 9.692 min Scan# 2613

Delta R.T. 0.003 min

Lab File: VU060279.D

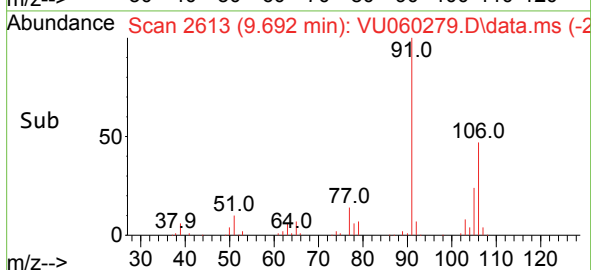
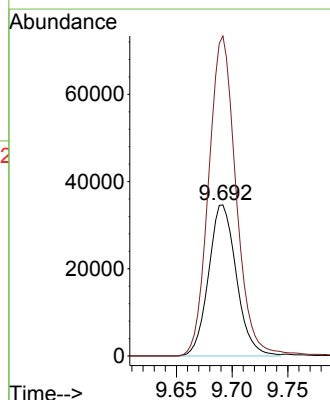
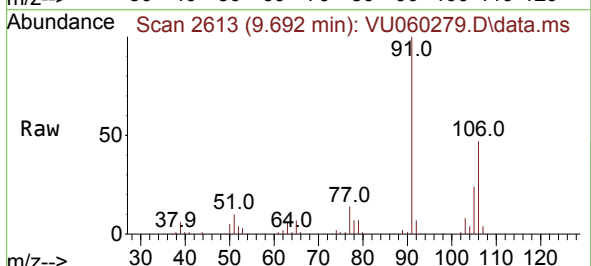
Acq: 31 Jul 2024 13:13

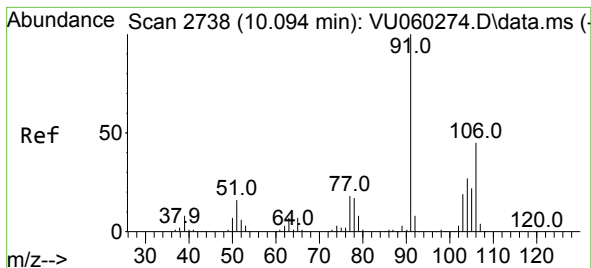
Tgt Ion:106 Resp: 60217

Ion Ratio Lower Upper

106 100

91 211.9 140.9 261.7





#54

o-Xylene

Concen: 34.275 ug/L

RT: 10.094 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU060279.D

Acq: 31 Jul 2024 13:13

Instrument :

MSVOA_U

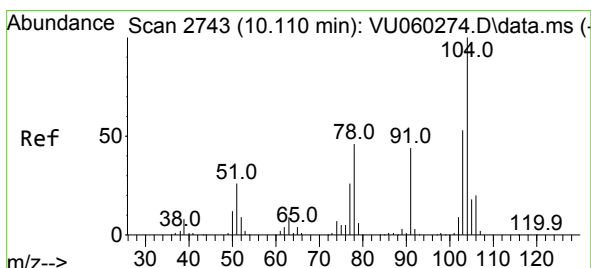
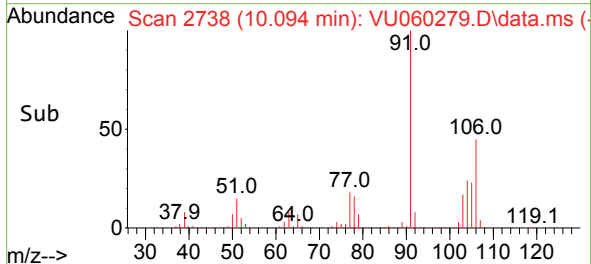
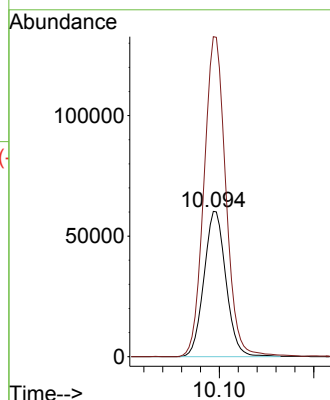
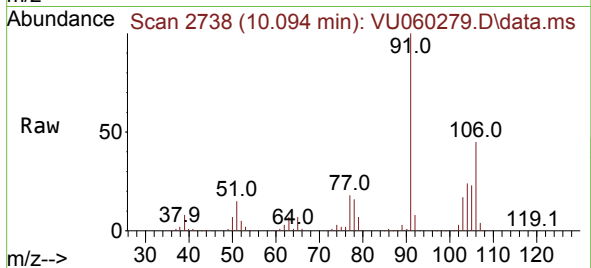
ClientSampleId :

Tgt Ion:106 Resp: 97292

Ion Ratio Lower Upper

106 100

91 220.3 147.4 273.8



#55

Styrene

Concen: 35.545 ug/L

RT: 10.110 min Scan# 2743

Delta R.T. -0.000 min

Lab File: VU060279.D

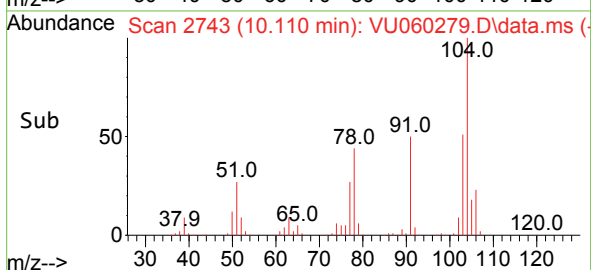
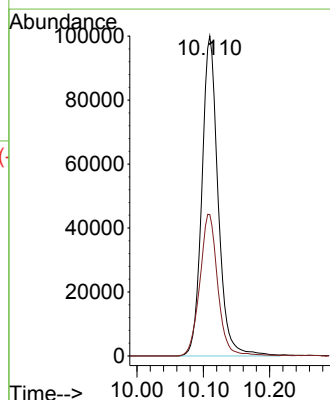
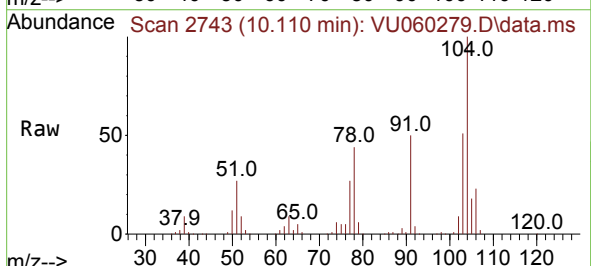
Acq: 31 Jul 2024 13:13

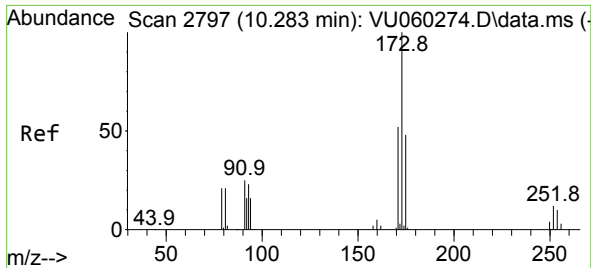
Tgt Ion:104 Resp: 170219

Ion Ratio Lower Upper

104 100

78 44.2 30.9 57.5

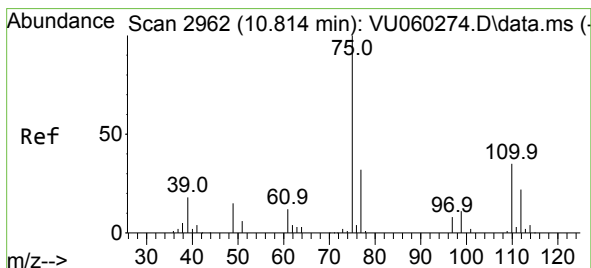
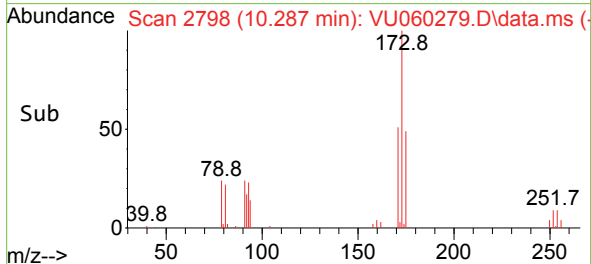
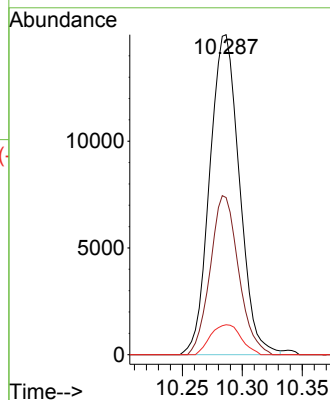
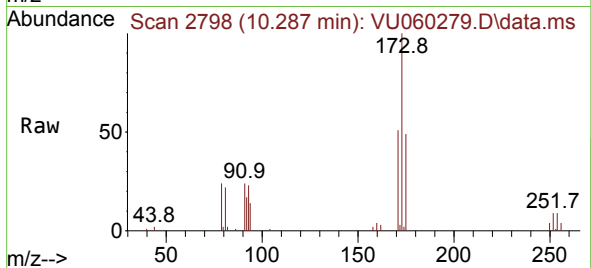




#59
Bromoform
Concen: 19.654 ug/L
RT: 10.287 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU060279.D
Acq: 31 Jul 2024 13:13

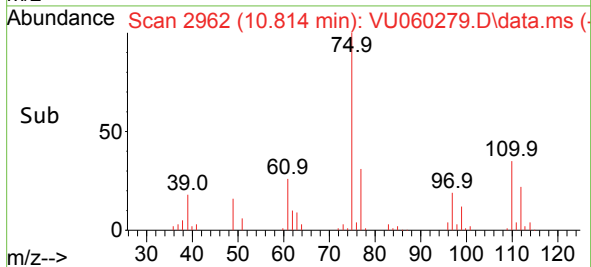
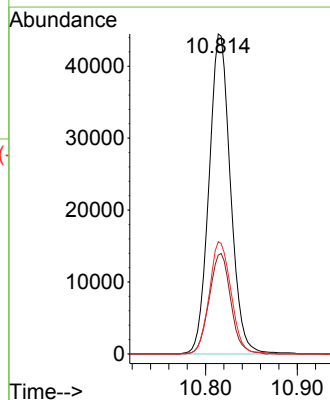
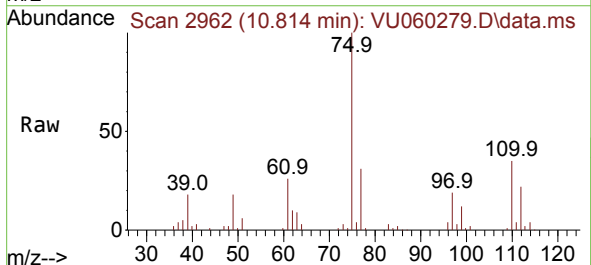
Instrument :
MSVOA_U
ClientSampleId :

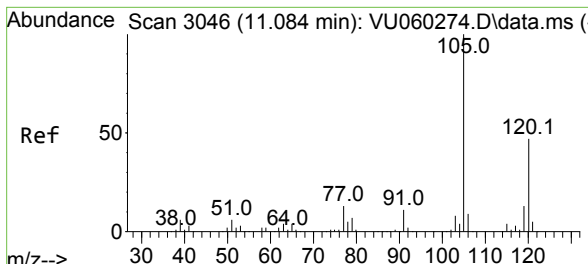
Tgt Ion:173 Resp: 25799
Ion Ratio Lower Upper
173 100
175 47.4 39.4 59.2
254 9.6 9.0 13.4



#60
1,2,3-Trichloropropane
Concen: 35.134 ug/L
RT: 10.814 min Scan# 2962
Delta R.T. -0.000 min
Lab File: VU060279.D
Acq: 31 Jul 2024 13:13

Tgt Ion: 75 Resp: 72389
Ion Ratio Lower Upper
75 100
77 31.5 25.5 38.3
110 35.7 30.7 46.1

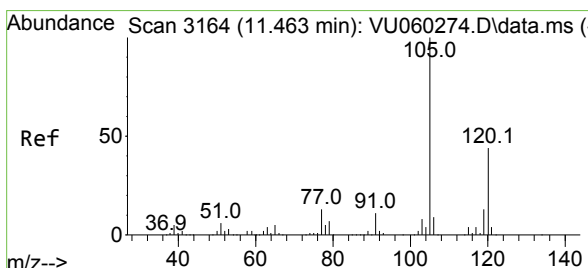
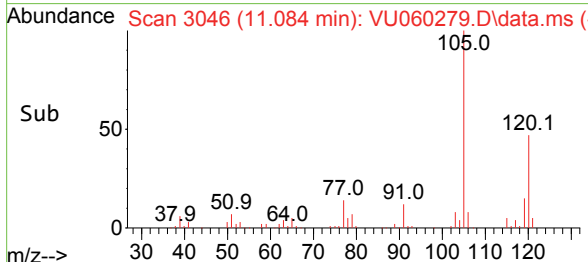
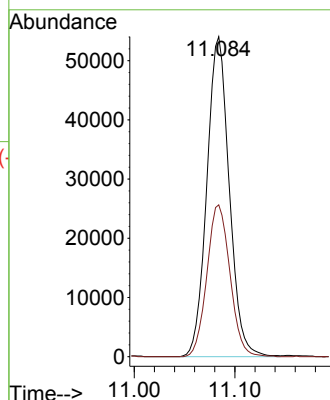
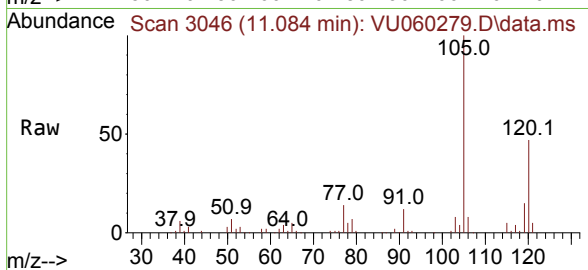




#62
 1,3,5-Trimethylbenzene
 Concen: 18.065 ug/L
 RT: 11.084 min Scan# 3046
 Delta R.T. -0.000 min
 Lab File: VU060279.D
 Acq: 31 Jul 2024 13:13

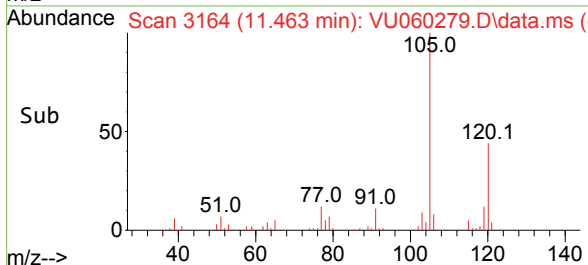
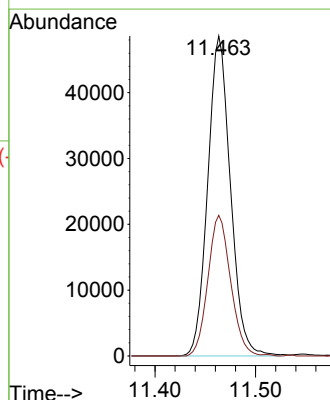
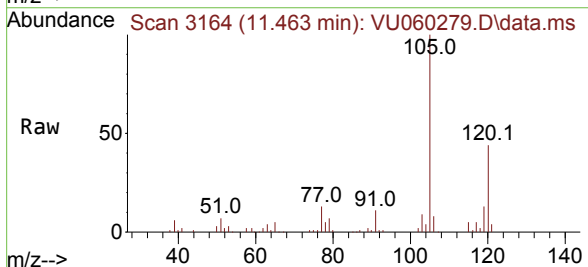
Instrument :
 MSVOA_U
 ClientSampleId :

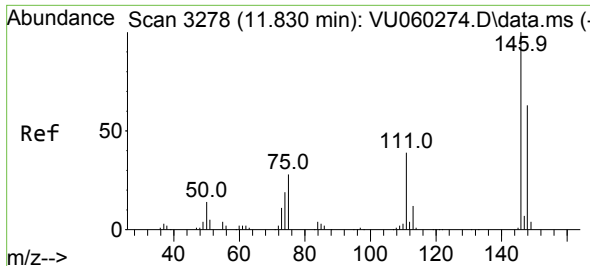
Tgt Ion:105 Resp: 83690
 Ion Ratio Lower Upper
 105 100
 120 48.8 39.5 59.3



#63
 1,2,4-Trimethylbenzene
 Concen: 15.387 ug/L
 RT: 11.463 min Scan# 3164
 Delta R.T. -0.000 min
 Lab File: VU060279.D
 Acq: 31 Jul 2024 13:13

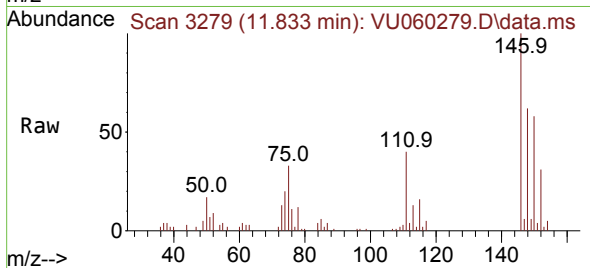
Tgt Ion:105 Resp: 76355
 Ion Ratio Lower Upper
 105 100
 120 43.9 37.0 55.6



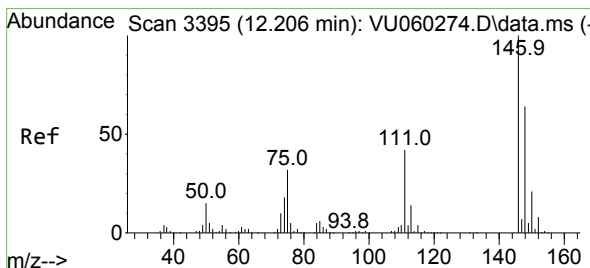
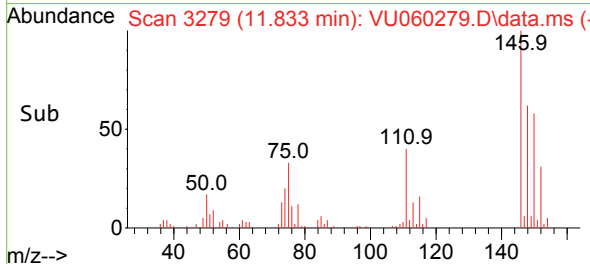
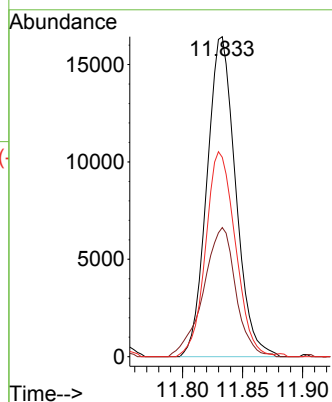


#65
1,4-Dichlorobenzene
Concen: 8.068 ug/L
RT: 11.833 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU060279.D
Acq: 31 Jul 2024 13:13

Instrument :
MSVOA_U
ClientSampleId :

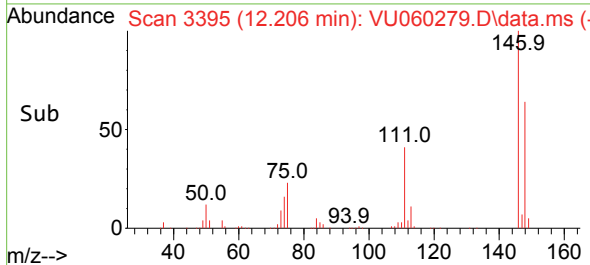
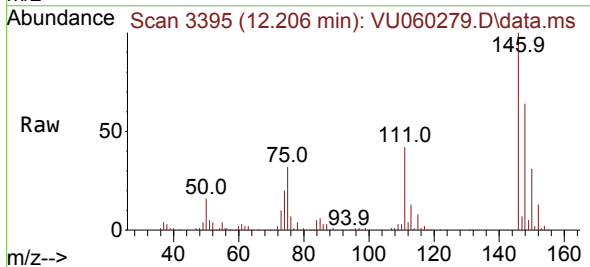
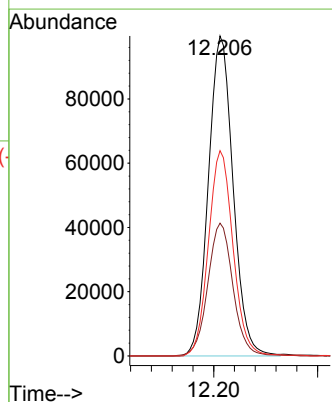


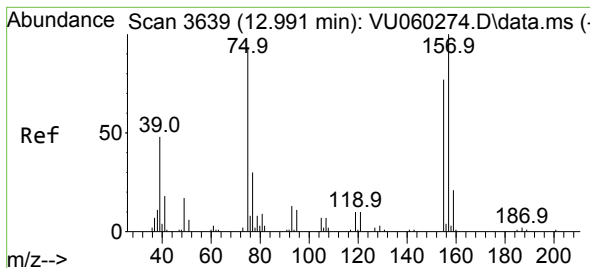
Tgt Ion:146 Resp: 27373
Ion Ratio Lower Upper
146 100
111 40.4 25.9 48.1
148 62.3 44.0 81.8



#67
1,2-Dichlorobenzene
Concen: 49.521 ug/L
RT: 12.206 min Scan# 3395
Delta R.T. -0.000 min
Lab File: VU060279.D
Acq: 31 Jul 2024 13:13

Tgt Ion:146 Resp: 164185
Ion Ratio Lower Upper
146 100
111 41.5 31.7 47.5
148 64.2 50.8 76.2





#68

1,2-Dibromo-3-chloropropane

Concen: 28.710 ug/L

RT: 12.991 min Scan# 30

Delta R.T. -0.000 min

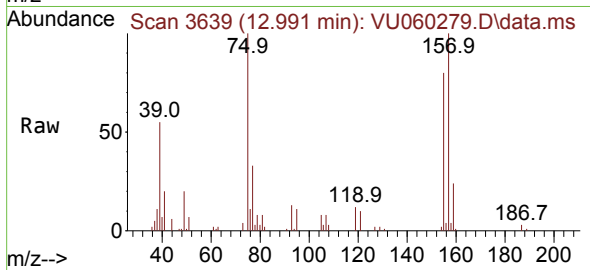
Lab File: VU060279.D

Acq: 31 Jul 2024 13:13

Instrument :

MSVOA_U

ClientSampleId :



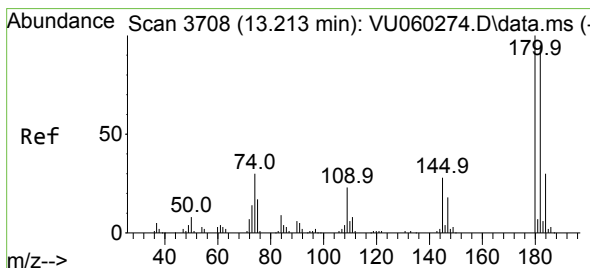
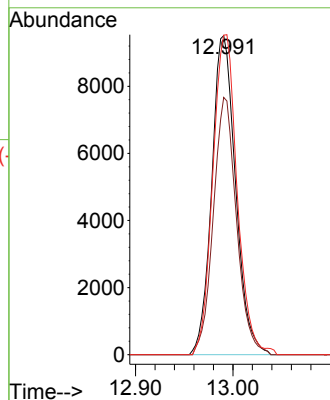
Tgt Ion: 75 Resp: 16177

Ion Ratio Lower Upper

75 100

155 80.6 73.5 110.3

157 100.2 93.5 140.3



#69

1,3,5-Trichlorobenzene

Concen: 15.812 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.624 min

Lab File: VU060279.D

Acq: 31 Jul 2024 13:13

Tgt Ion:180 Resp: 37416

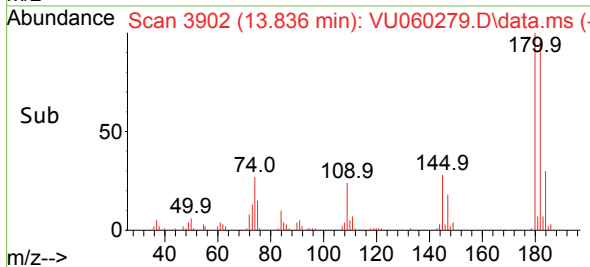
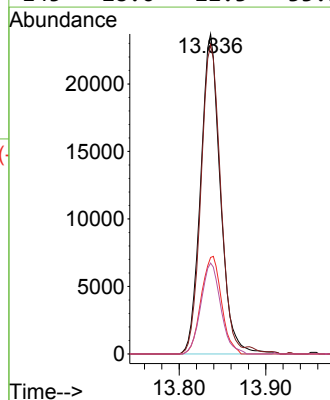
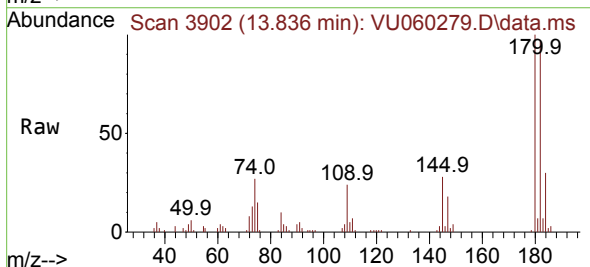
Ion Ratio Lower Upper

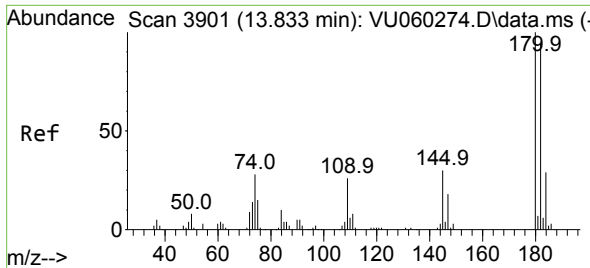
180 100

182 96.1 75.8 113.8

184 31.4 24.7 37.1

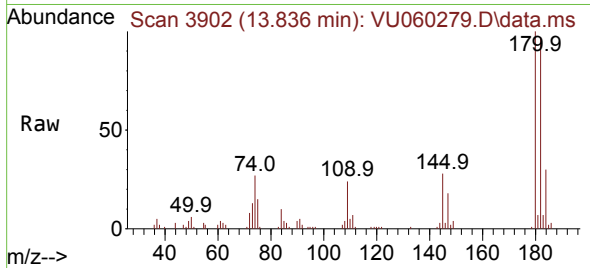
145 28.6 22.3 33.5



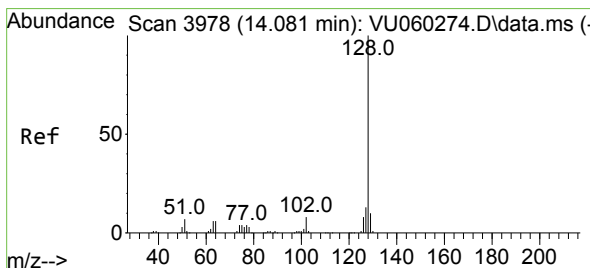
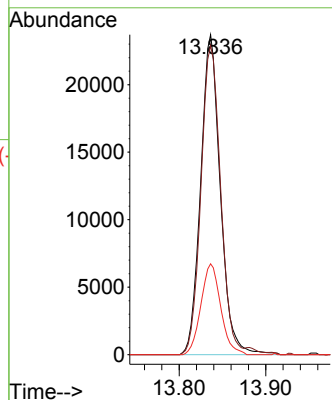
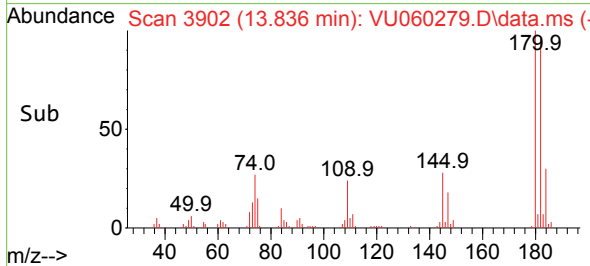


#70
1,2,4-trichlorobenzene
Concen: 17.544 ug/L
RT: 13.836 min Scan# 3901
Delta R.T. 0.003 min
Lab File: VU060279.D
Acq: 31 Jul 2024 13:13

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion:180 Resp: 37416
Ion Ratio Lower Upper
180 100
182 96.1 76.4 114.6
145 28.6 23.0 34.4



#71
Naphthalene
Concen: 11.105 ug/L
RT: 14.084 min Scan# 3979
Delta R.T. 0.003 min
Lab File: VU060279.D
Acq: 31 Jul 2024 13:13

Tgt Ion:128 Resp: 68442
Ion Ratio Lower Upper
128 100
127 14.1 10.4 15.6
129 10.6 8.6 13.0

