

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111824\
 Data File : VU061807.D
 Acq On : 18 Nov 2024 12:47
 Operator : MD/SY
 Sample : P4847-02DL 2X
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 19 00:17:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111324WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Nov 19 00:15:47 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	165062	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	156025	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	71991	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	57969	5.436	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	= 108.800%	
7) Chloroethane-d5	1.904	69	49722	5.461	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	= 109.200%	
11) 1,1-Dichloroethene-d2	2.560	65	25223	5.271	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	= 105.400%	
20) 2-Butanone-d5	4.618	46	118006	52.131	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	= 104.260%	
24) Chloroform-d	5.052	84	118856	5.607	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	= 112.200%	
26) 1,2-Dichloroethane-d4	5.692	65	59012	5.801	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	= 116.000%	
32) Benzene-d6	5.717	84	243069	5.631	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	= 112.600%	
36) 1,2-Dichloropropane-d6	6.682	67	75187	5.906	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	= 118.200%	
41) Toluene-d8	7.891	98	218871	5.440	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	= 108.800%	
43) trans-1,3-Dichloroprop...	8.174	79	24991	5.329	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	= 106.600%	
46) 2-Hexanone-d5	8.627	63	89477	48.287	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	= 96.580%	
56) 1,1,2,2-Tetrachloroeth...	10.749	84	56898	5.669	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	= 113.400%	
66) 1,2-Dichlorobenzene-d4	12.187	152	75487	5.887	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	= 117.800%	
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.599	62	55835	4.546	ug/L	97
12) 1,1-Dichloroethene	2.573	96	65413	6.565	ug/L	92
16) Methylene chloride	3.036	84	124678	10.857	ug/L	97
18) trans-1,2-Dichloroethene	3.345	96	82407	7.540	ug/L	97
22) cis-1,2-Dichloroethene	4.656	96	35332	2.866	ug/L	98
27) 1,2-Dichloroethane	5.788	62	18375	1.394	ug/L	100
29) 1,1,1-Trichloroethane	5.306	97	110764	6.239	ug/L	99
31) Carbon tetrachloride	5.515	117	79233	5.239	ug/L	99
33) Benzene	5.762	78	425187	9.004	ug/L	100
34) Trichloroethene	6.534	95	29807	2.338	ug/L	94
35) Methylcyclohexane	6.679	83	17521	0.911	ug/L #	21
37) 1,2-Dichloropropane	6.782	63	87008	7.263	ug/L	99
42) Toluene	7.962	91	483937	9.518	ug/L	99
45) 1,1,2-Trichloroethane	8.393	97	17384	1.991	ug/L	99
47) Tetrachloroethene	8.547	164	63422	6.619	ug/L	98
49) Dibromochloromethane	8.547	129	63806	6.968	ug/L #	10
51) Chlorobenzene	9.441	112	195406	5.971	ug/L	99
52) Ethylbenzene	9.563	91	447265	8.258	ug/L	100
53) m,p-Xylene	9.685	106	153727	7.418	ug/L	100

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QLast Update : Tue Nov 19 00:15:47 2024
Response via : Initial Calibration

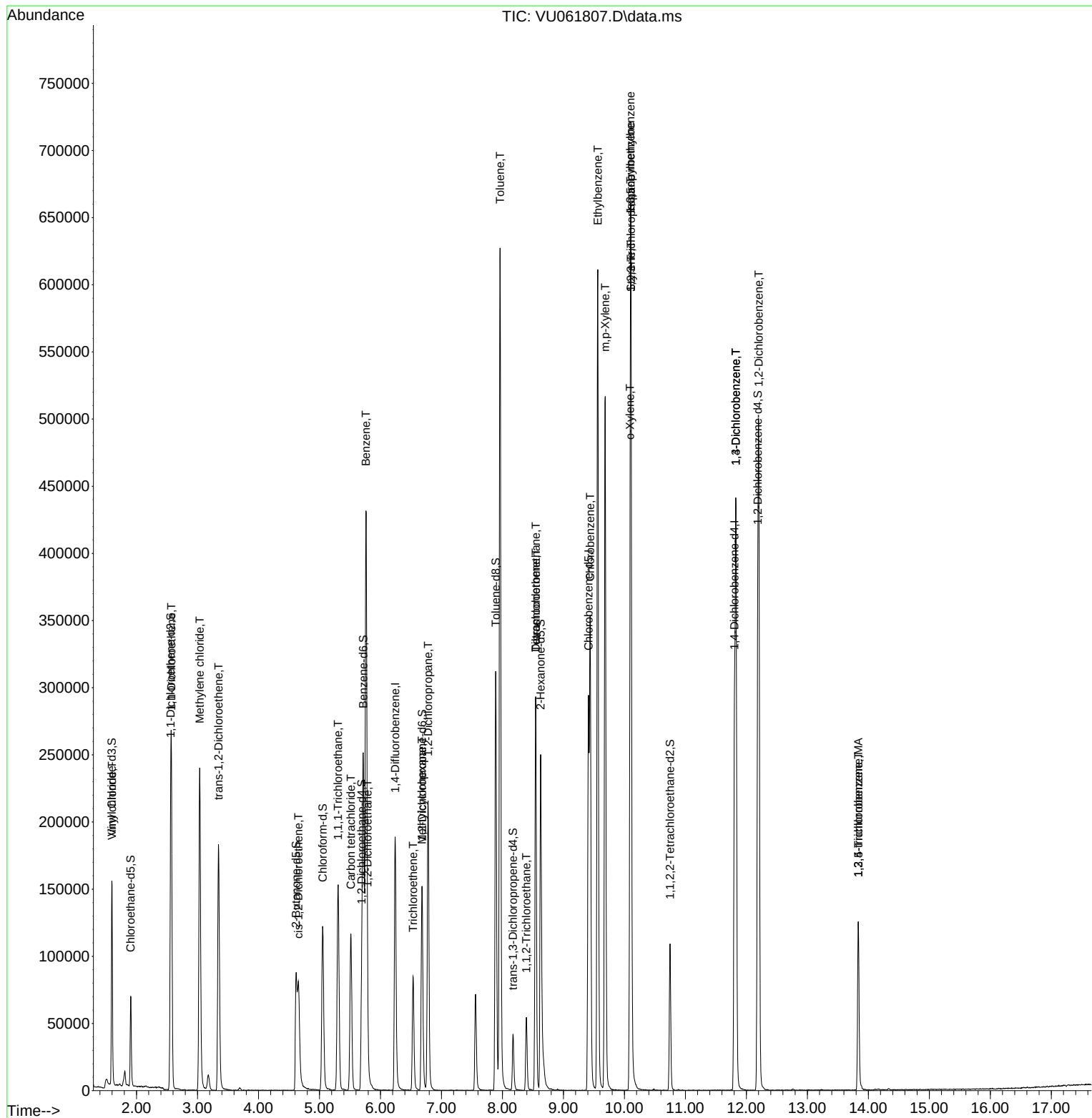
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.093	106	59340	2.946	ug/L	99
55) Styrene	10.106	104	296675	9.251	ug/L	95
60) Isopropylbenzene	10.100	105	49460	0.991	ug/L #	1
61) 1,2,3-Trichloropropane	10.106	75	13923	2.053	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.100	105	49460	1.237	ug/L #	29
64) 1,3-Dichlorobenzene	11.830	146	173244	7.566	ug/L	97
65) 1,4-Dichlorobenzene	11.830	146	173244	7.452	ug/L	98
67) 1,2-Dichlorobenzene	12.203	146	173781	8.161	ug/L	97
69) 1,3,5-Trichlorobenzene	13.836	180	43434	2.717	ug/L	97
70) 1,2,4-trichlorobenzene	13.836	180	43396	3.503	ug/L	97

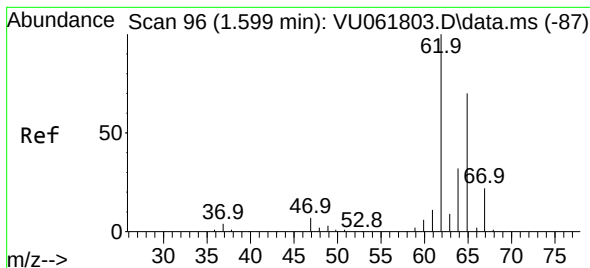
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 4.546 ug/L

RT: 1.599 min Scan# 90

Delta R.T. 0.000 min

Lab File: VU061807.D

Acq: 18 Nov 2024 12:47

Instrument :

MSVOA_U

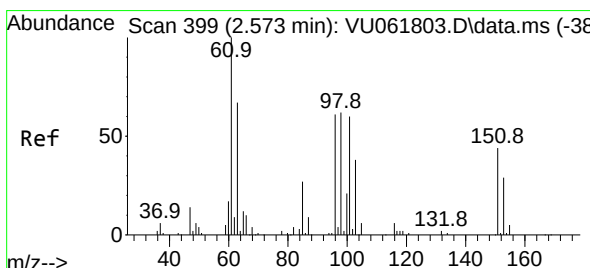
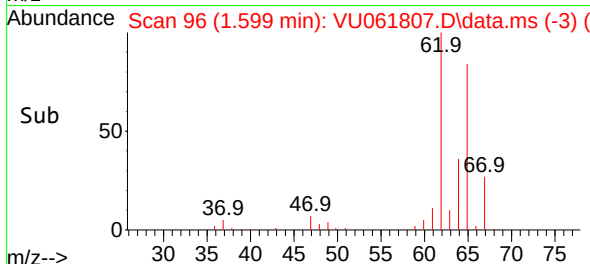
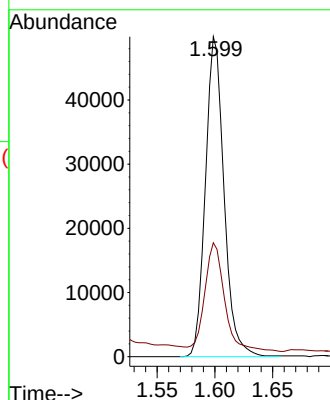
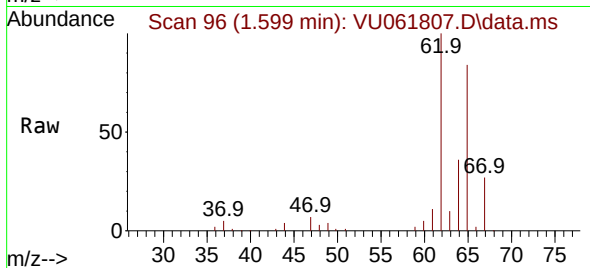
ClientSampleId :

Tgt Ion: 62 Resp: 55835

Ion Ratio Lower Upper

62 100

64 35.6 23.7 44.1



#12

1,1-Dichloroethene

Concen: 6.565 ug/L

RT: 2.573 min Scan# 399

Delta R.T. 0.000 min

Lab File: VU061807.D

Acq: 18 Nov 2024 12:47

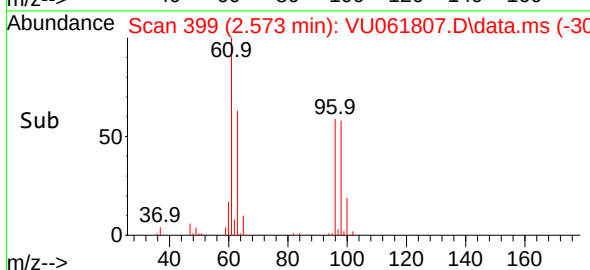
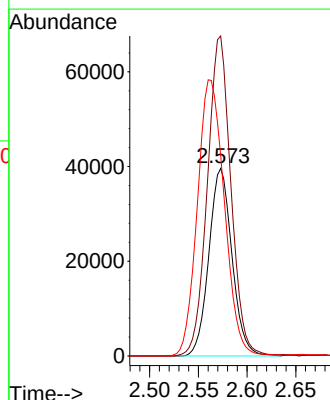
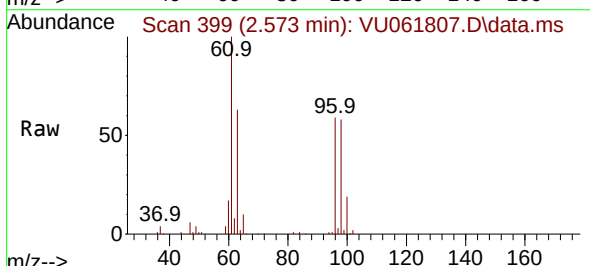
Tgt Ion: 96 Resp: 65413

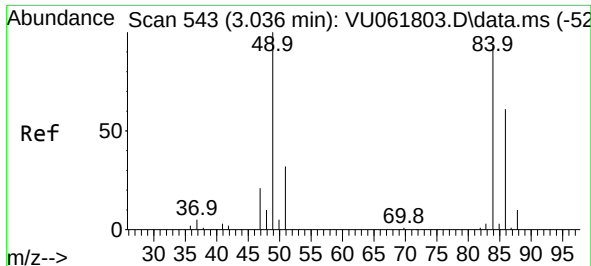
Ion Ratio Lower Upper

96 100

61 170.6 116.8 217.0

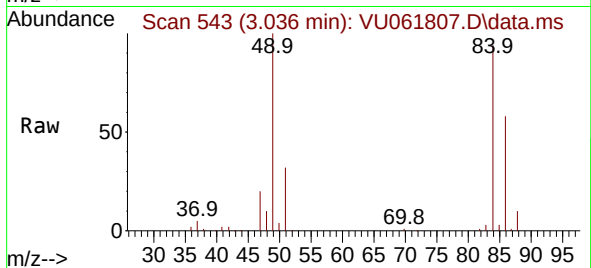
63 106.9 86.1 159.9



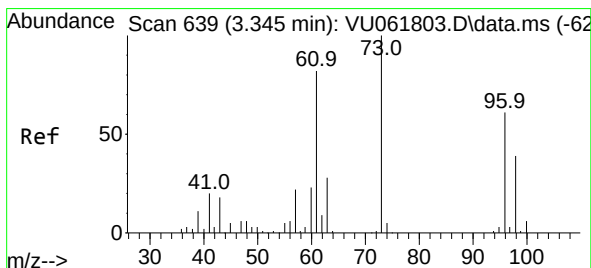
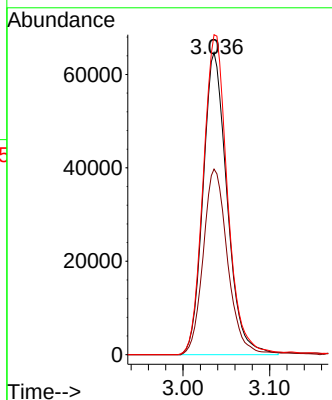
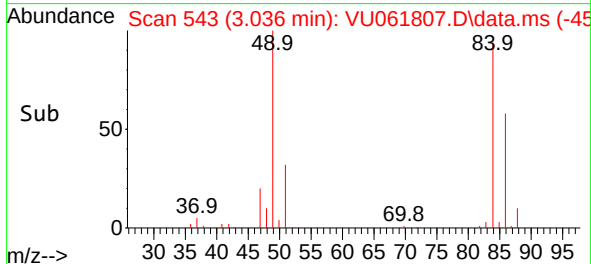


#16
Methylene chloride
Concen: 10.857 ug/L
RT: 3.036 min Scan# 543
Delta R.T. 0.000 min
Lab File: VU061807.D
Acq: 18 Nov 2024 12:47

Instrument :
MSVOA_U
ClientSampleId :

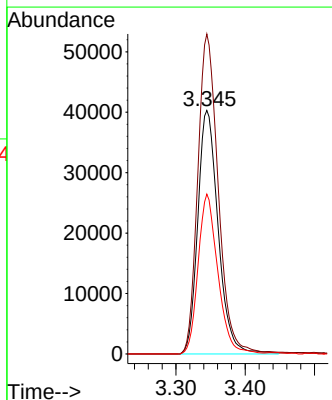
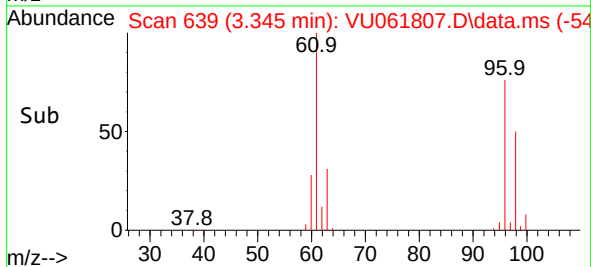
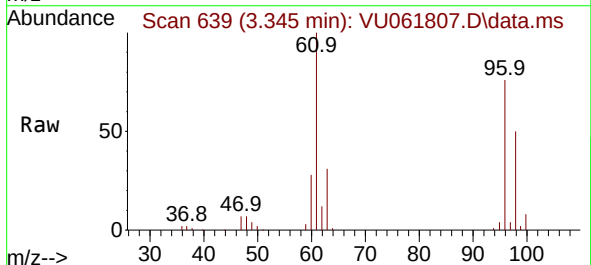


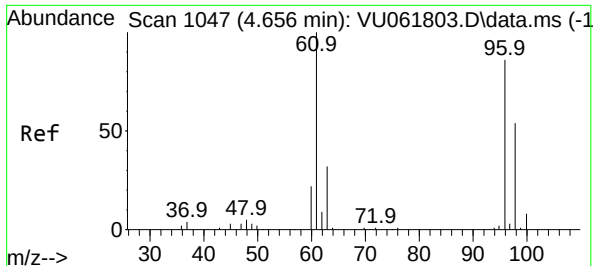
Tgt Ion: 84 Resp: 124678
Ion Ratio Lower Upper
84 100
86 61.4 45.1 83.7
49 105.9 76.3 141.7



#18
trans-1,2-Dichloroethene
Concen: 7.540 ug/L
RT: 3.345 min Scan# 639
Delta R.T. 0.000 min
Lab File: VU061807.D
Acq: 18 Nov 2024 12:47

Tgt Ion: 96 Resp: 82407
Ion Ratio Lower Upper
96 100
61 131.4 94.1 174.8
98 65.6 43.2 80.2

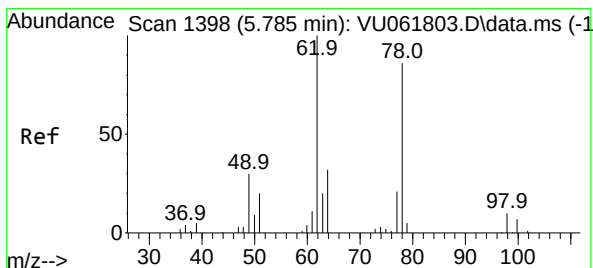
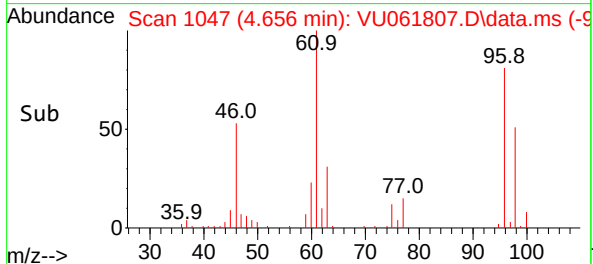
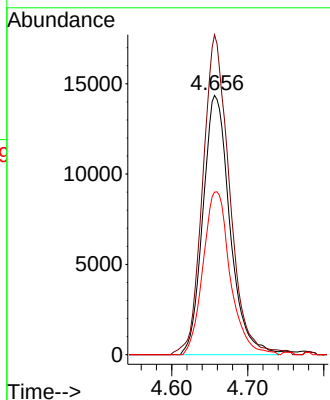
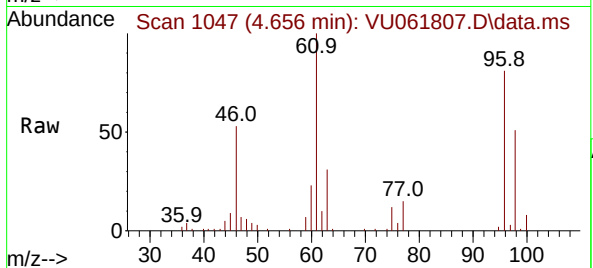




#22
 cis-1,2-Dichloroethene
 Concen: 2.866 ug/L
 RT: 4.656 min Scan# 1047
 Delta R.T. 0.000 min
 Lab File: VU061807.D
 Acq: 18 Nov 2024 12:47

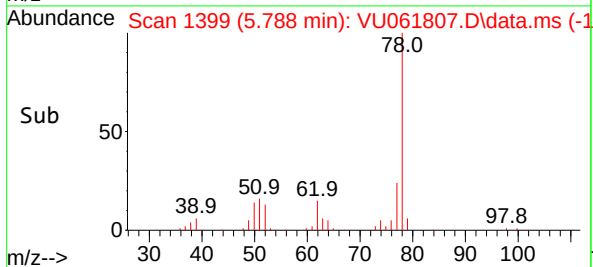
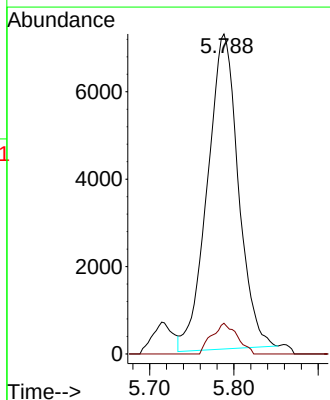
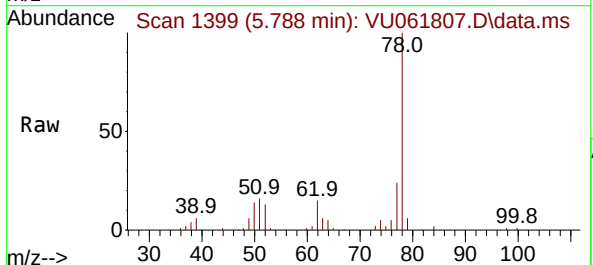
Instrument :
 MSVOA_U
 ClientSampleId :

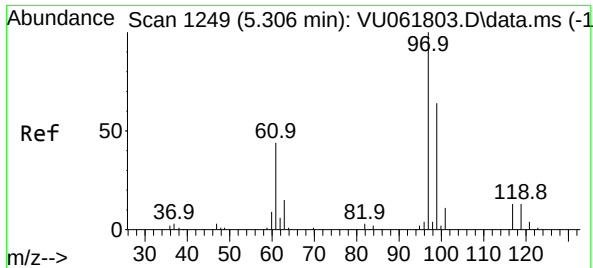
Tgt Ion: 96 Resp: 35332
 Ion Ratio Lower Upper
 96 100
 61 123.4 85.6 159.0
 98 62.7 45.6 84.8



#27
 1,2-Dichloroethane
 Concen: 1.394 ug/L
 RT: 5.788 min Scan# 1399
 Delta R.T. 0.003 min
 Lab File: VU061807.D
 Acq: 18 Nov 2024 12:47

Tgt Ion: 62 Resp: 18375
 Ion Ratio Lower Upper
 62 100
 98 9.6 7.7 11.5

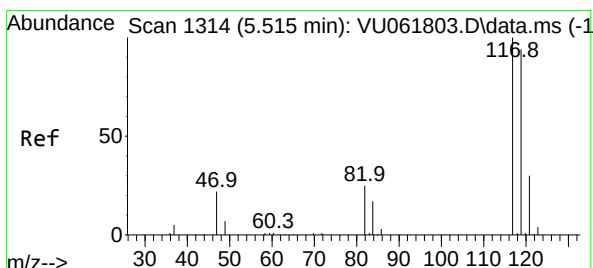
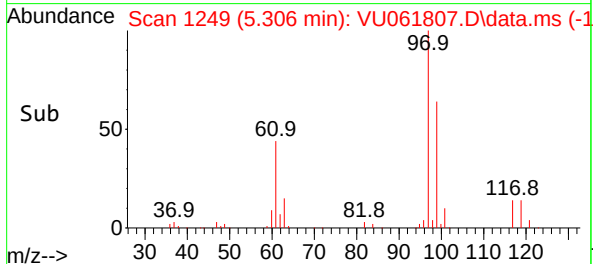
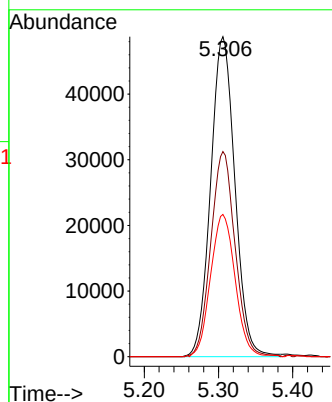
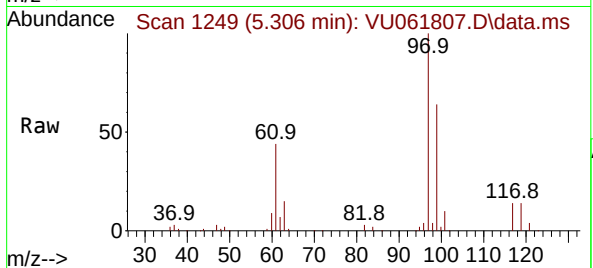




#29
1,1,1-Trichloroethane
Concen: 6.239 ug/L
RT: 5.306 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU061807.D
Acq: 18 Nov 2024 12:47

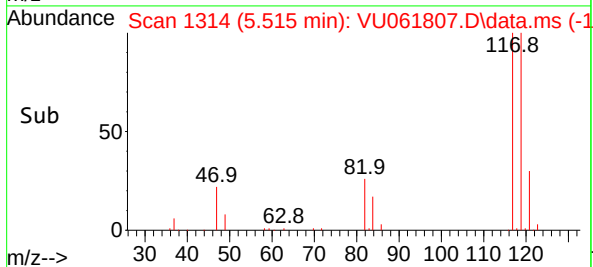
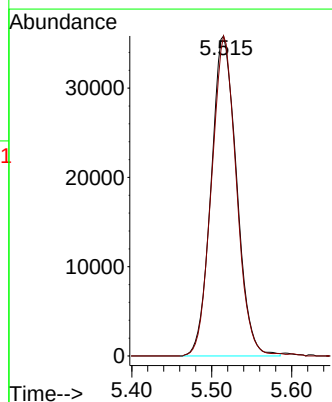
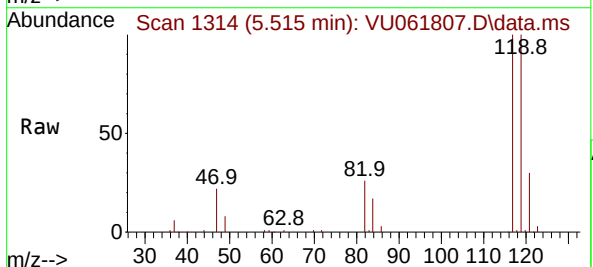
Instrument :
MSVOA_U
ClientSampleId :

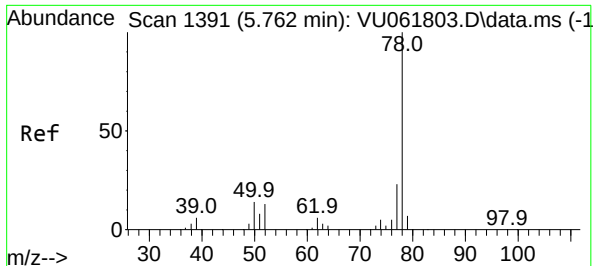
Tgt Ion: 97 Resp: 110764
Ion Ratio Lower Upper
97 100
99 64.2 51.7 77.5
61 44.9 35.4 53.0



#31
Carbon tetrachloride
Concen: 5.239 ug/L
RT: 5.515 min Scan# 1314
Delta R.T. 0.000 min
Lab File: VU061807.D
Acq: 18 Nov 2024 12:47

Tgt Ion: 117 Resp: 79233
Ion Ratio Lower Upper
117 100
119 97.1 76.6 114.8





#33

Benzene

Concen: 9.004 ug/L

RT: 5.762 min Scan# 1391

Delta R.T. 0.000 min

Lab File: VU061807.D

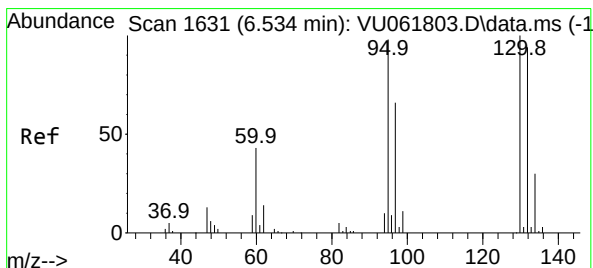
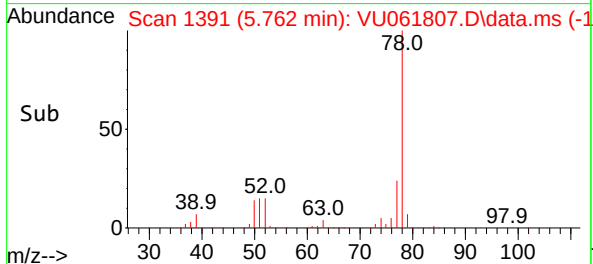
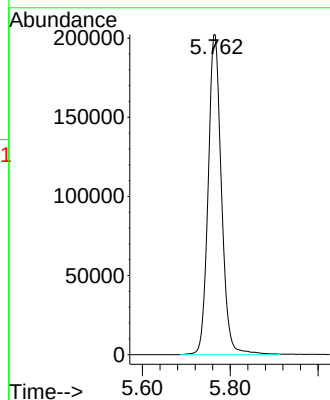
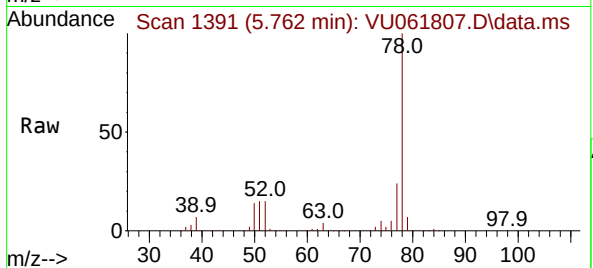
Acq: 18 Nov 2024 12:47

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 78 Resp: 425187



#34

Trichloroethene

Concen: 2.338 ug/L

RT: 6.534 min Scan# 1631

Delta R.T. 0.000 min

Lab File: VU061807.D

Acq: 18 Nov 2024 12:47

Tgt Ion: 95 Resp: 29807

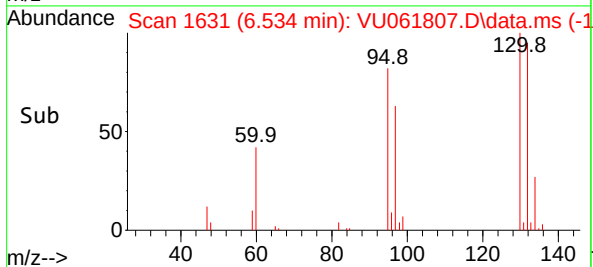
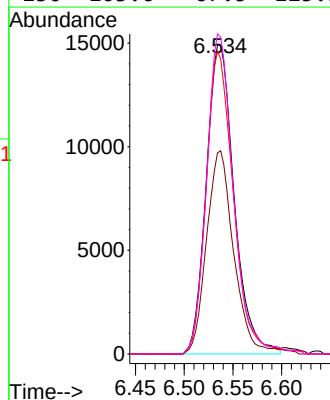
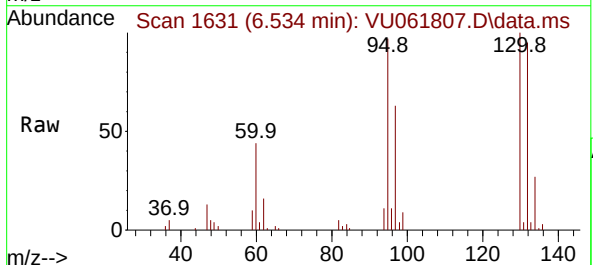
Ion Ratio Lower Upper

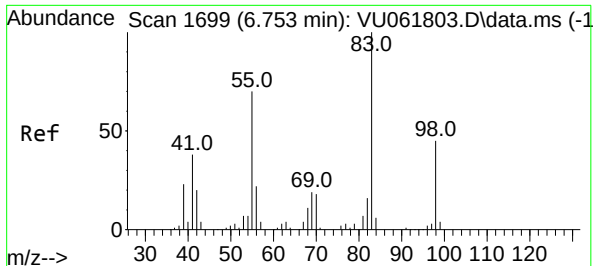
95 100

97 65.1 43.5 80.9

132 98.0 65.2 121.0

130 103.6 67.5 125.3

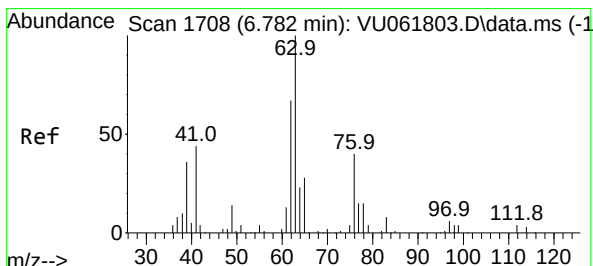
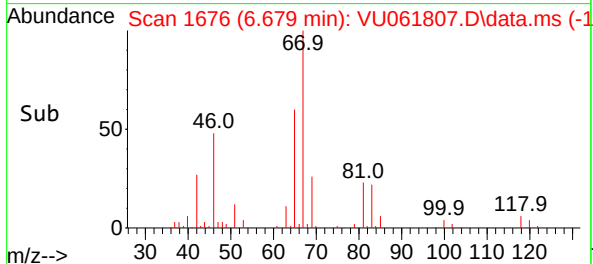
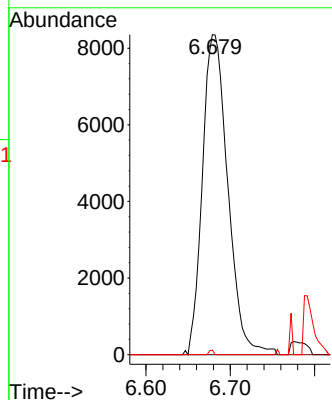
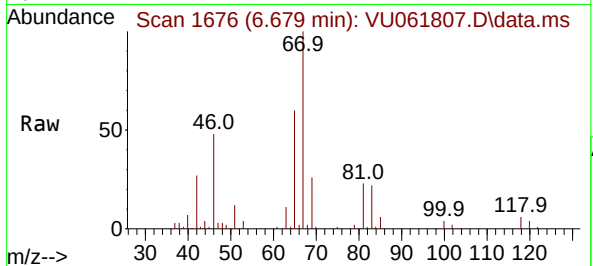




#35
Methylcyclohexane
Concen: 0.911 ug/L
RT: 6.679 min Scan# 1
Delta R.T. -0.074 min
Lab File: VU061807.D
Acq: 18 Nov 2024 12:47

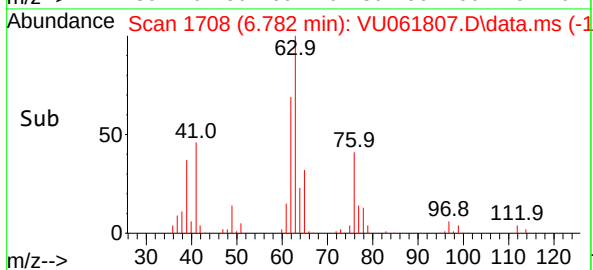
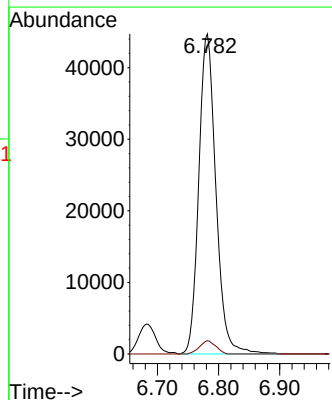
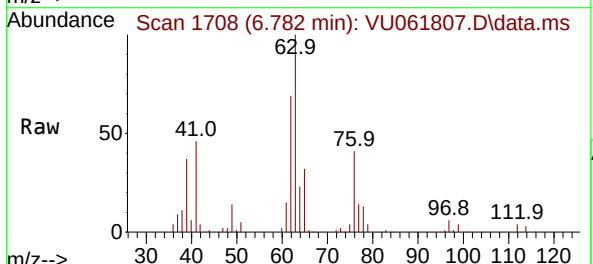
Instrument :
MSVOA_U
ClientSampleId :

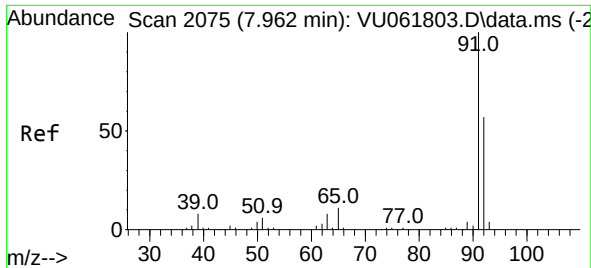
Tgt Ion: 83 Resp: 17521
Ion Ratio Lower Upper
83 100
55 0.0 56.4 84.6#
98 1.2 37.7 56.5#



#37
1,2-Dichloropropane
Concen: 7.263 ug/L
RT: 6.782 min Scan# 1708
Delta R.T. 0.000 min
Lab File: VU061807.D
Acq: 18 Nov 2024 12:47

Tgt Ion: 63 Resp: 87008
Ion Ratio Lower Upper
63 100
112 3.9 3.0 4.4





#42

Toluene

Concen: 9.518 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. 0.000 min

Lab File: VU061807.D

Acq: 18 Nov 2024 12:47

Instrument :

MSVOA_U

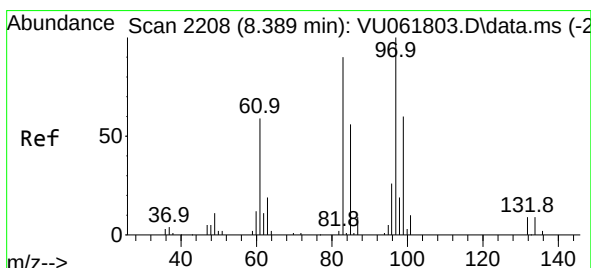
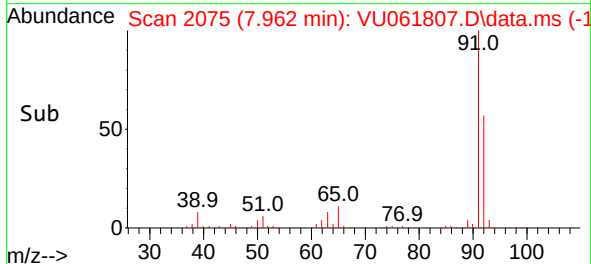
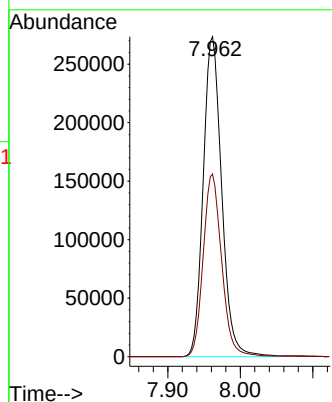
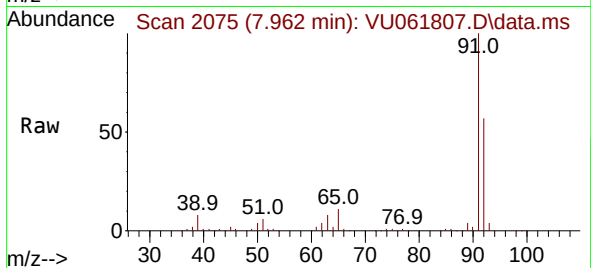
ClientSampleId :

Tgt Ion: 91 Resp: 483937

Ion Ratio Lower Upper

91 100

92 57.1 39.7 73.7



#45

1,1,2-Trichloroethane

Concen: 1.991 ug/L

RT: 8.393 min Scan# 2209

Delta R.T. 0.003 min

Lab File: VU061807.D

Acq: 18 Nov 2024 12:47

Tgt Ion: 97 Resp: 17384

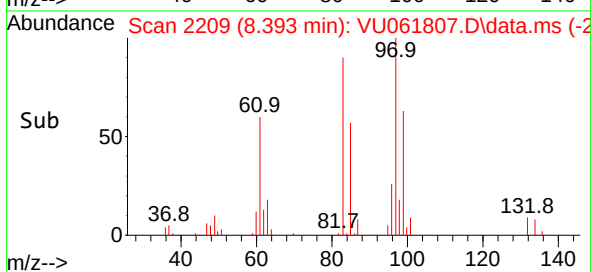
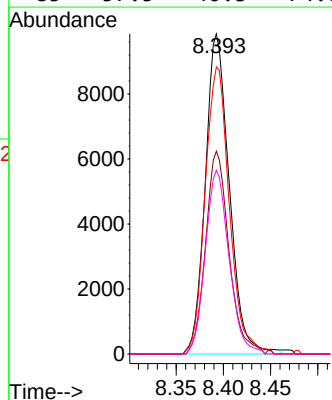
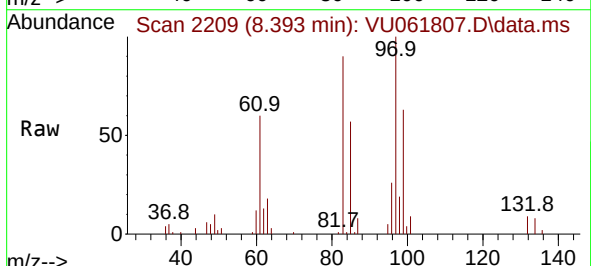
Ion Ratio Lower Upper

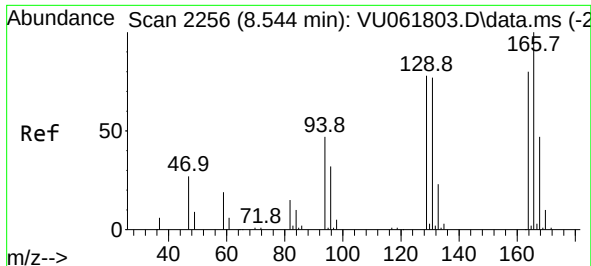
97 100

99 63.4 43.8 81.3

83 89.7 63.2 117.4

85 57.5 40.3 74.8





#47

Tetrachloroethene

Concen: 6.619 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. 0.003 min

Lab File: VU061807.D

Acq: 18 Nov 2024 12:47

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:164 Resp: 63422

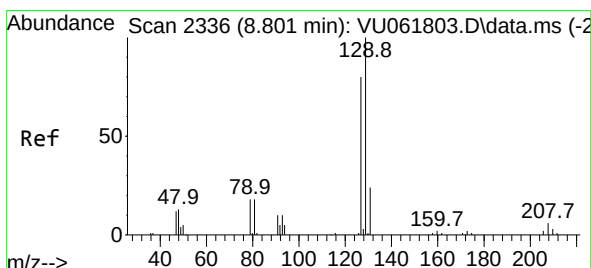
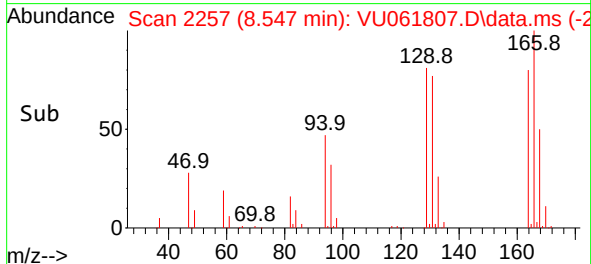
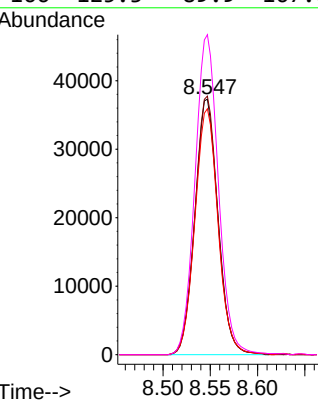
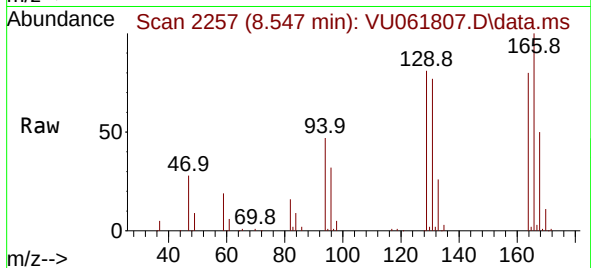
Ion Ratio Lower Upper

164 100

129 101.2 71.7 133.3

131 96.3 68.2 126.6

166 125.3 89.9 167.0



#49

Dibromochloromethane

Concen: 6.968 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.254 min

Lab File: VU061807.D

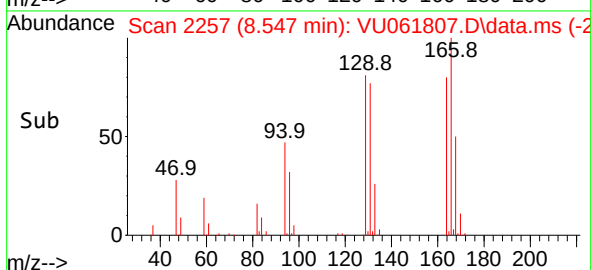
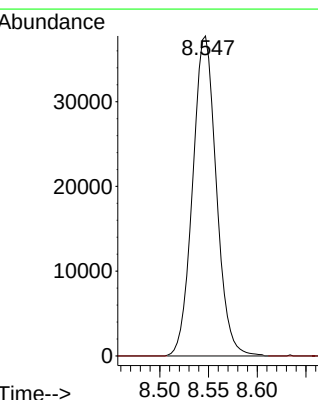
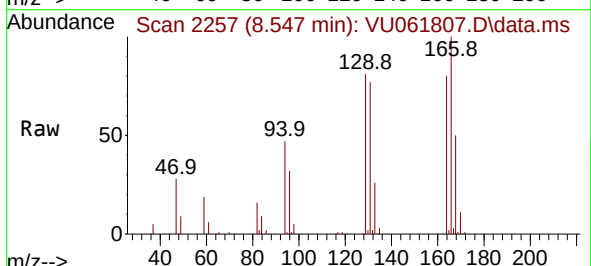
Acq: 18 Nov 2024 12:47

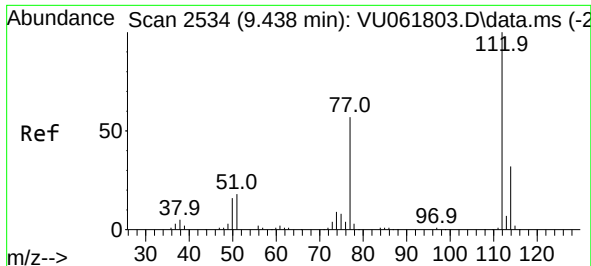
Tgt Ion:129 Resp: 63806

Ion Ratio Lower Upper

129 100

127 0.0 55.1 102.3#

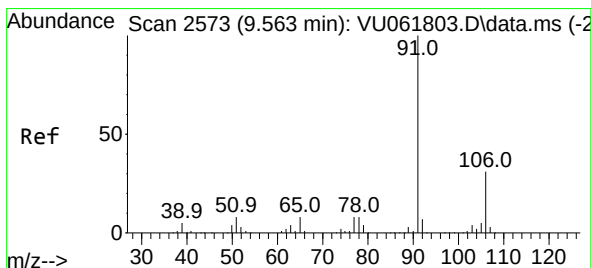
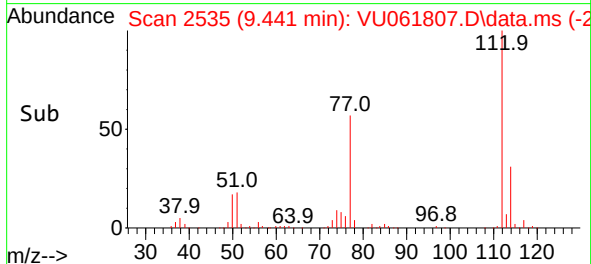
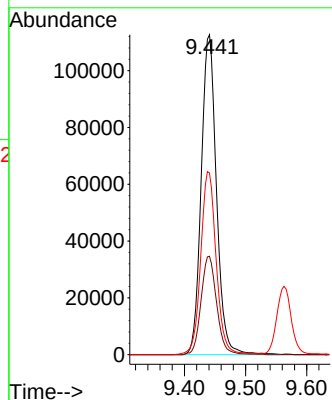
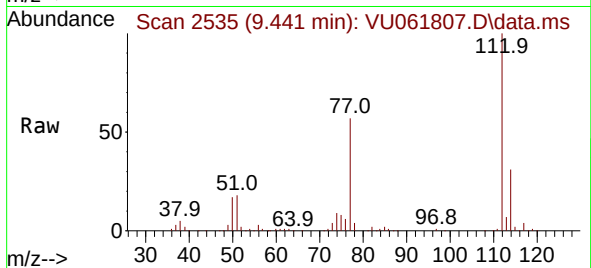




#51
Chlorobenzene
Concen: 5.971 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. 0.003 min
Lab File: VU061807.D
Acq: 18 Nov 2024 12:47

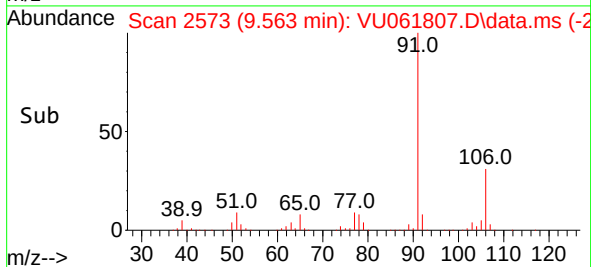
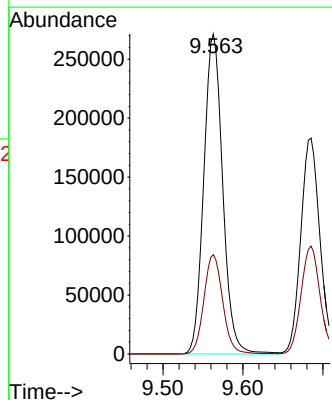
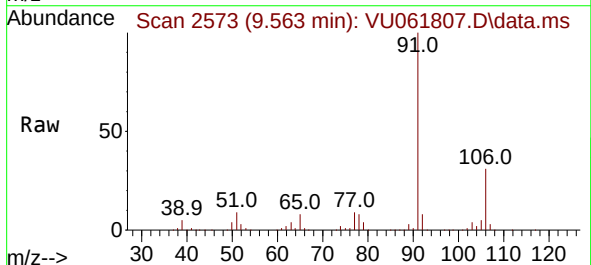
Instrument :
MSVOA_U
ClientSampleId :

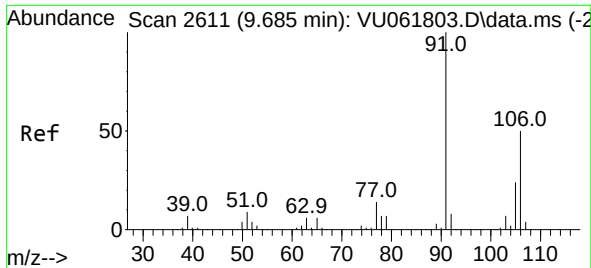
Tgt Ion:112 Resp: 195406
Ion Ratio Lower Upper
112 100
114 30.7 22.5 41.9
77 56.8 45.3 67.9



#52
Ethylbenzene
Concen: 8.258 ug/L
RT: 9.563 min Scan# 2573
Delta R.T. 0.000 min
Lab File: VU061807.D
Acq: 18 Nov 2024 12:47

Tgt Ion: 91 Resp: 447265
Ion Ratio Lower Upper
91 100
106 31.1 21.7 40.3

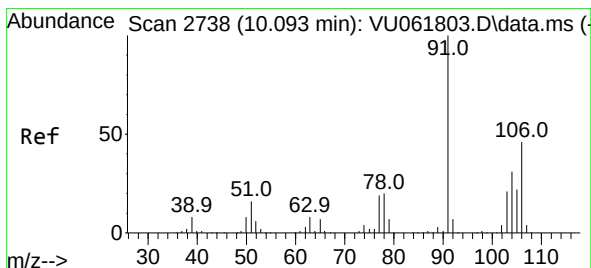
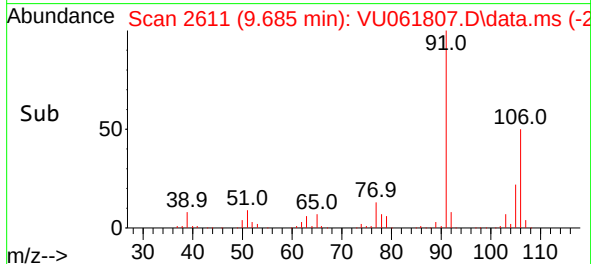
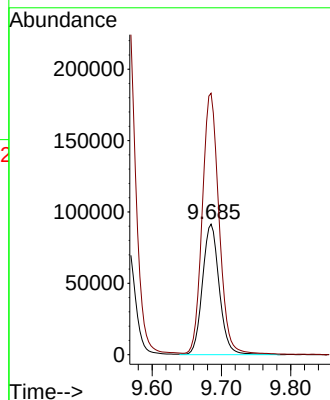
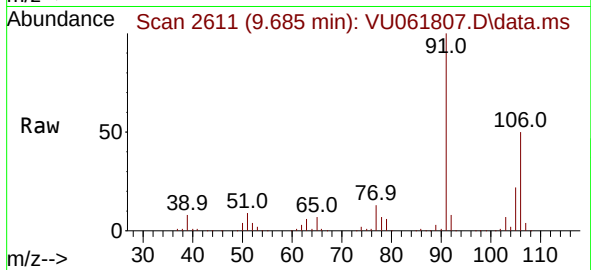




#53
m,p-Xylene
Concen: 7.418 ug/L
RT: 9.685 min Scan# 2611
Delta R.T. 0.000 min
Lab File: VU061807.D
Acq: 18 Nov 2024 12:47

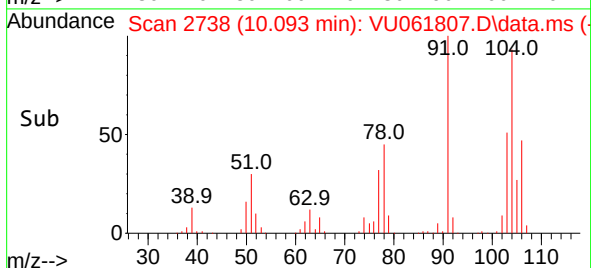
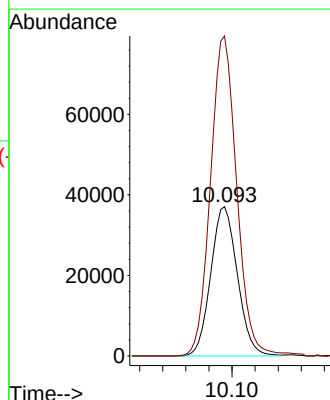
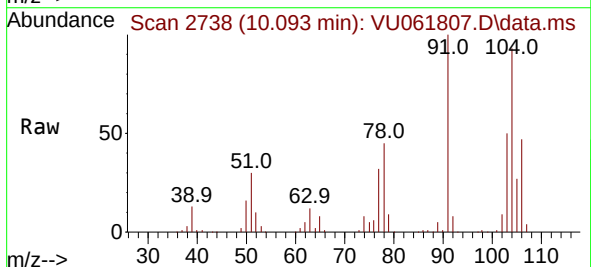
Instrument :
MSVOA_U
ClientSampleId :

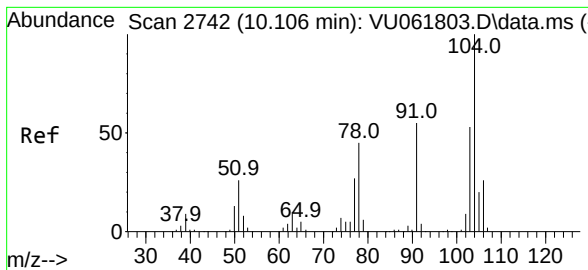
Tgt Ion:106 Resp: 153727
Ion Ratio Lower Upper
106 100
91 200.3 140.4 260.8



#54
o-Xylene
Concen: 2.946 ug/L
RT: 10.093 min Scan# 2738
Delta R.T. 0.000 min
Lab File: VU061807.D
Acq: 18 Nov 2024 12:47

Tgt Ion:106 Resp: 59340
Ion Ratio Lower Upper
106 100
91 214.3 151.3 280.9

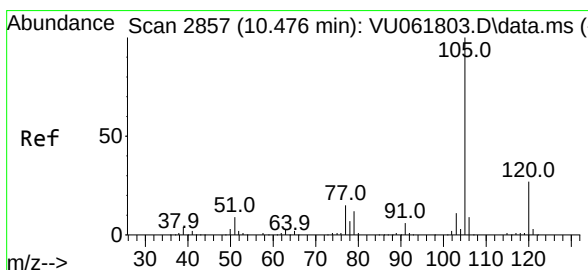
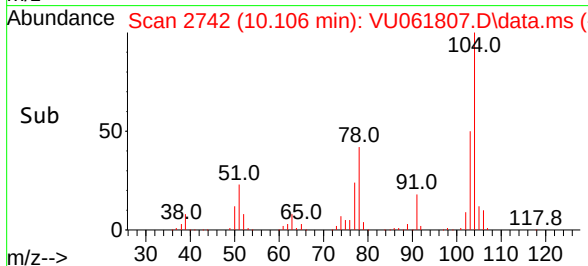
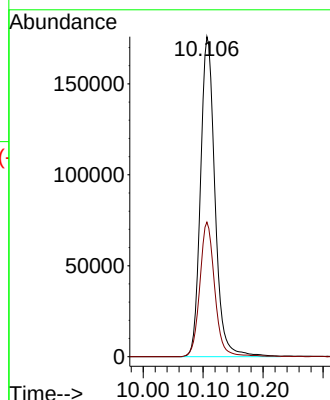
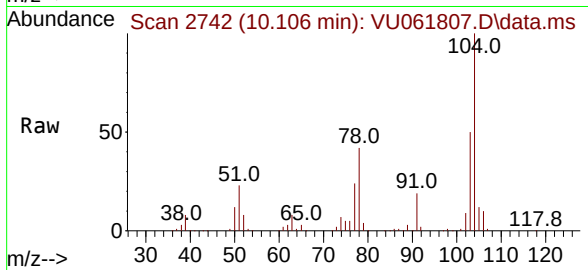




#55
Styrene
Concen: 9.251 ug/L
RT: 10.106 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU061807.D
Acq: 18 Nov 2024 12:47

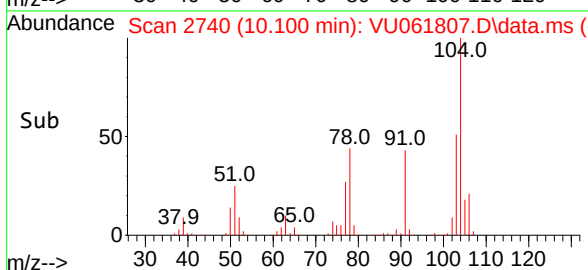
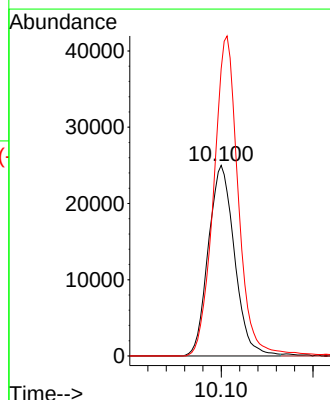
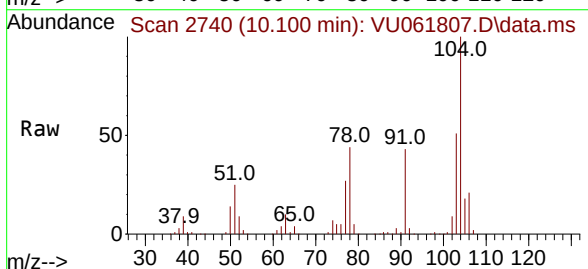
Instrument :
MSVOA_U
ClientSampleId :

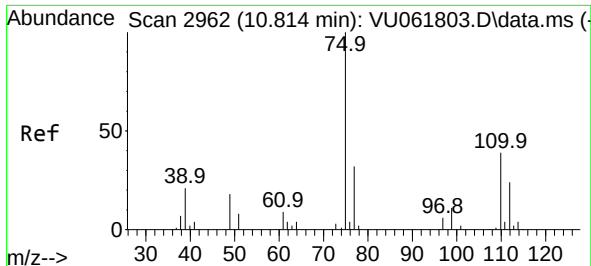
Tgt Ion:104 Resp: 296675
Ion Ratio Lower Upper
104 100
78 42.0 31.6 58.6



#60
Isopropylbenzene
Concen: 0.991 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. -0.376 min
Lab File: VU061807.D
Acq: 18 Nov 2024 12:47

Tgt Ion:105 Resp: 49460
Ion Ratio Lower Upper
105 100
120 0.0 21.6 32.4#
77 158.2 12.8 19.2#

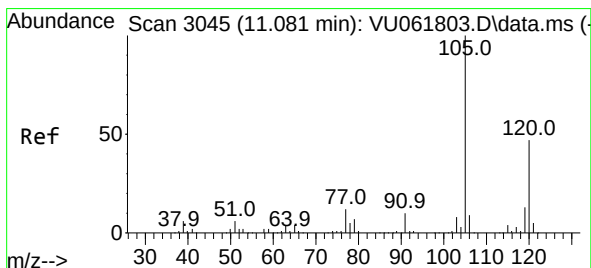
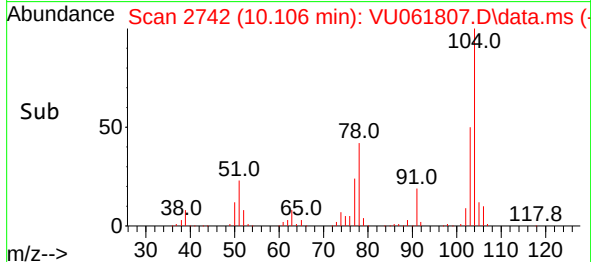
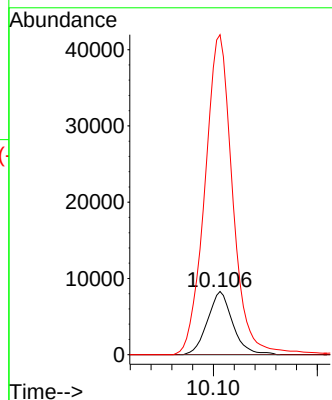
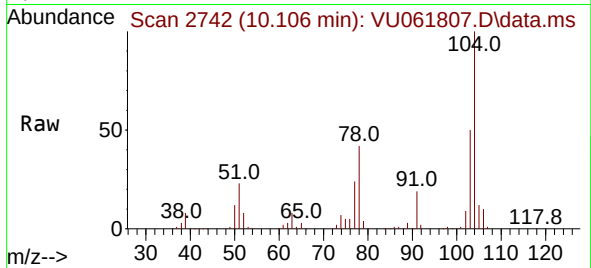




#61
1,2,3-Trichloropropane
Concen: 2.053 ug/L
RT: 10.106 min Scan# 21
Delta R.T. -0.707 min
Lab File: VU061807.D
Acq: 18 Nov 2024 12:47

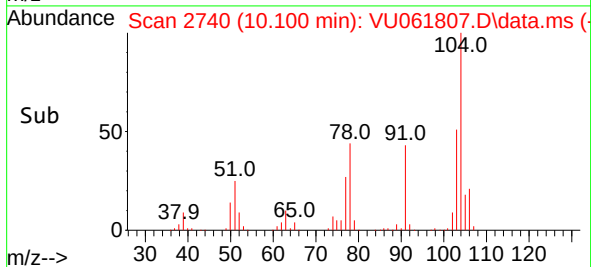
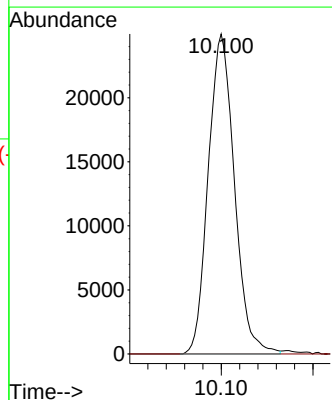
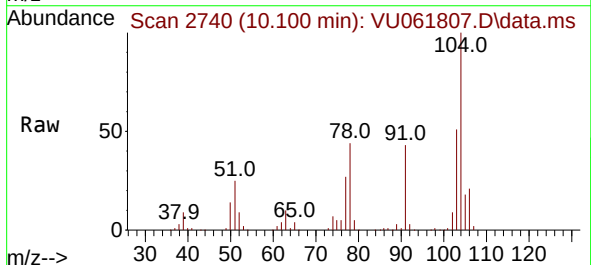
Instrument :
MSVOA_U
ClientSampleId :

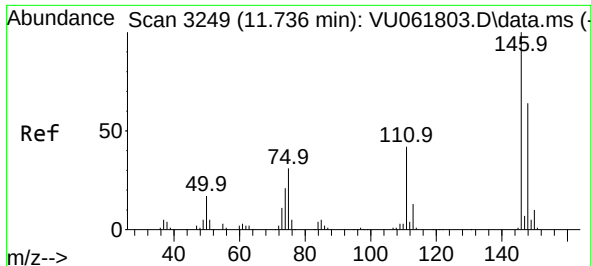
Tgt Ion: 75 Resp: 13923
Ion Ratio Lower Upper
75 100
110 0.0 31.3 46.9#
77 561.8 26.0 39.0#



#62
1,3,5-Trimethylbenzene
Concen: 1.237 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. -0.981 min
Lab File: VU061807.D
Acq: 18 Nov 2024 12:47

Tgt Ion:105 Resp: 49460
Ion Ratio Lower Upper
105 100
120 0.0 38.5 57.7#

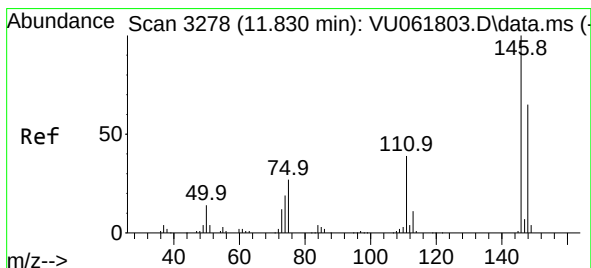
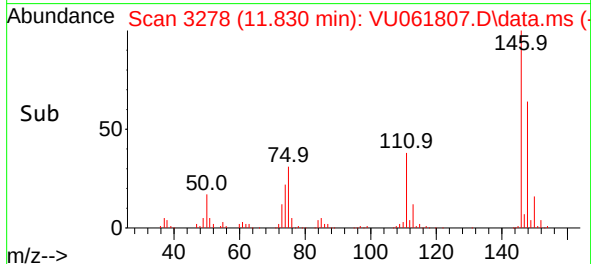
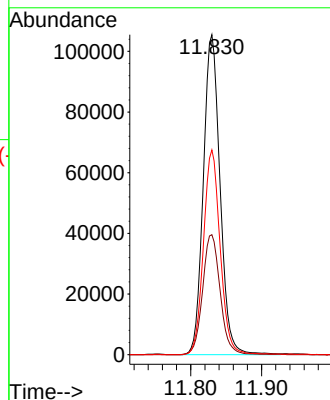
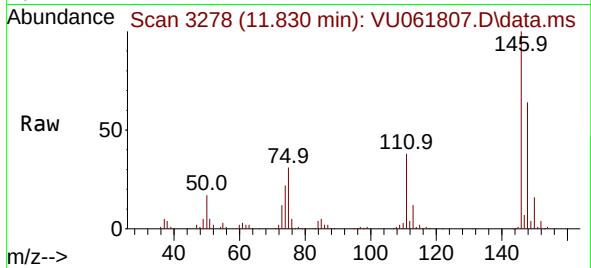




#64
 1,3-Dichlorobenzene
 Concen: 7.566 ug/L
 RT: 11.830 min Scan# 3278
 Delta R.T. 0.093 min
 Lab File: VU061807.D
 Acq: 18 Nov 2024 12:47

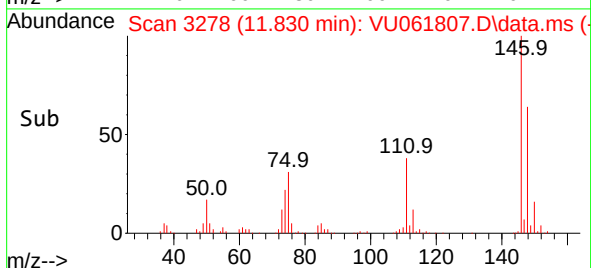
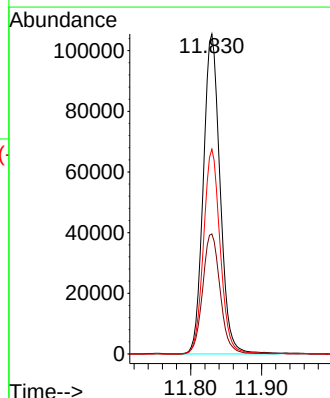
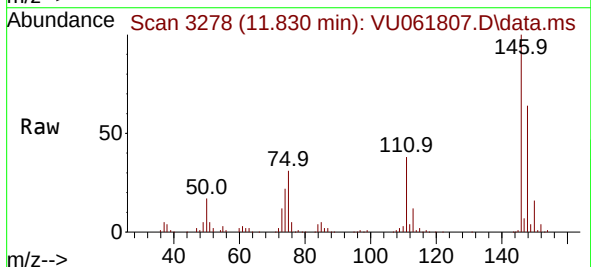
Instrument :
 MSVOA_U
 ClientSampleId :

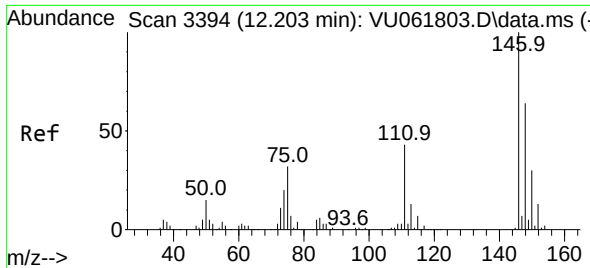
Tgt Ion:146 Resp: 173244
 Ion Ratio Lower Upper
 146 100
 111 37.5 29.3 54.3
 148 64.0 44.5 82.7



#65
 1,4-Dichlorobenzene
 Concen: 7.452 ug/L
 RT: 11.830 min Scan# 3278
 Delta R.T. 0.000 min
 Lab File: VU061807.D
 Acq: 18 Nov 2024 12:47

Tgt Ion:146 Resp: 173244
 Ion Ratio Lower Upper
 146 100
 111 37.5 28.8 53.4
 148 64.0 44.7 83.1





#67

1,2-Dichlorobenzene

Concen: 8.161 ug/L

RT: 12.203 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU061807.D

Acq: 18 Nov 2024 12:47

Instrument :

MSVOA_U

ClientSampleId :

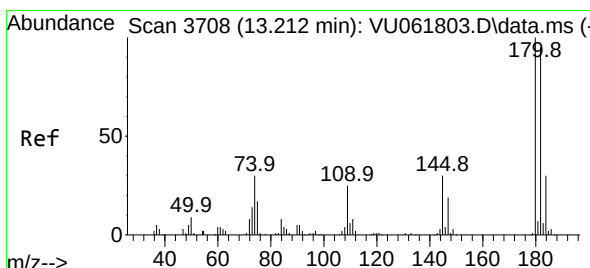
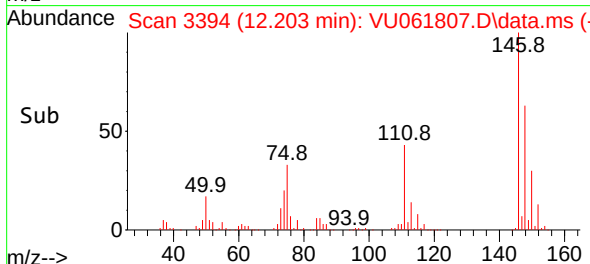
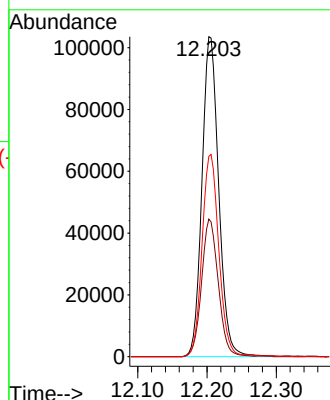
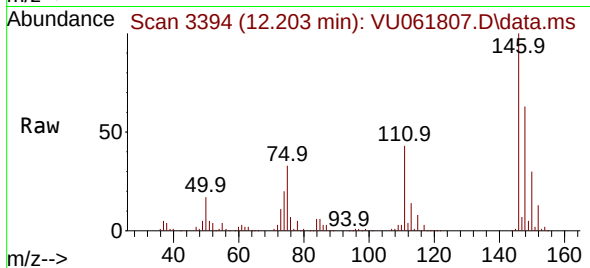
Tgt Ion:146 Resp: 173781

Ion Ratio Lower Upper

146 100

111 43.0 35.2 52.8

148 62.6 52.6 79.0



#69

1,3,5-Trichlorobenzene

Concen: 2.717 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.624 min

Lab File: VU061807.D

Acq: 18 Nov 2024 12:47

Tgt Ion:180 Resp: 43434

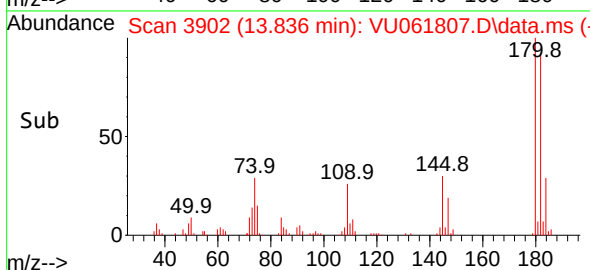
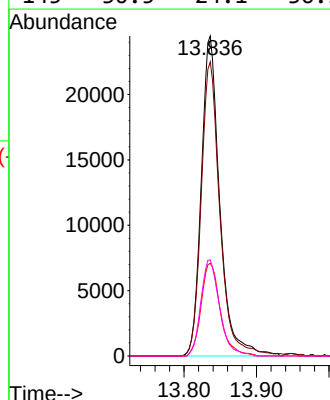
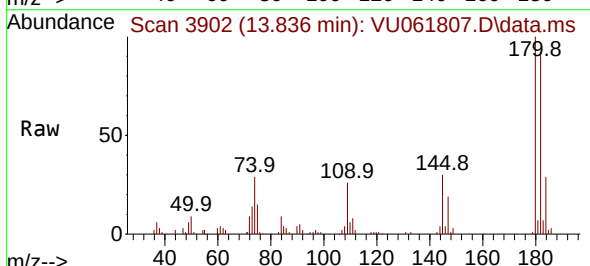
Ion Ratio Lower Upper

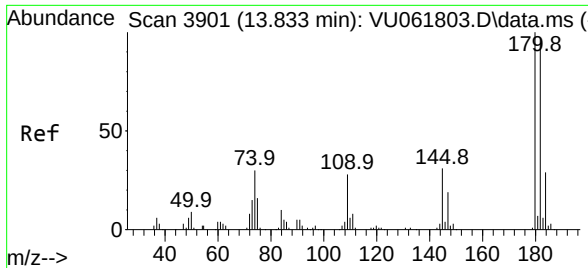
180 100

182 92.5 77.1 115.7

184 29.9 24.7 37.1

145 30.5 24.1 36.1





#70
 1,2,4-trichlorobenzene
 Concen: 3.503 ug/L
 RT: 13.836 min Scan# 3901
 Delta R.T. 0.003 min
 Lab File: VU061807.D
 Acq: 18 Nov 2024 12:47

Instrument :
 MSVOA_U
 ClientSampleId :

Tgt Ion:	180	Resp:	43396
Ion	Ratio	Lower	Upper
180	100		
182	92.6	77.4	116.0
145	30.5	24.5	36.7

