

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100224\
 Data File : VU061073.D
 Acq On : 02 Oct 2024 14:00
 Operator : MD/SY
 Sample : P4227-09DL 2000X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 03 06:29:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100124WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 03 06:26:52 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	182130	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	171208	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	80114	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	53713	4.125	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.600%
7) Chloroethane-d5	1.911	69	42593	4.370	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.400%
11) 1,1-Dichloroethene-d2	2.563	65	24489	4.263	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	85.200%
20) 2-Butanone-d5	4.634	46	151543	48.586	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.180%
24) Chloroform-d	5.055	84	101803	4.436	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.800%
26) 1,2-Dichloroethane-d4	5.695	65	55782	4.586	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.800%
32) Benzene-d6	5.718	84	203485	4.508	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.200%
36) 1,2-Dichloropropane-d6	6.682	67	69235	4.670	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.400%
41) Toluene-d8	7.891	98	187212	4.437	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.800%
43) trans-1,3-Dichloroprop...	8.174	79	28104	4.434	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.600%
46) 2-Hexanone-d5	8.628	63	122600	46.727	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.460%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	50248	4.622	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.400%
66) 1,2-Dichlorobenzene-d4	12.187	152	61228	4.780	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.600%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.602	62	2319	0.180	ug/L #	65
22) cis-1,2-Dichloroethene	4.660	96	69717	5.430	ug/L	94
37) 1,2-Dichloropropane	6.682	63	7572	0.569	ug/L #	93
42) Toluene	7.962	91	196590	3.656	ug/L	100
47) Tetrachloroethene	8.547	164	4344	0.488	ug/L	86
49) Dibromochloromethane	8.547	129	4847	0.473	ug/L #	9
51) Chlorobenzene	9.441	112	16326	0.498	ug/L	94
52) Ethylbenzene	9.566	91	9515	0.156	ug/L	97
53) m,p-Xylene	9.689	106	13421	0.604	ug/L	95
54) o-Xylene	10.100	106	4001	0.183	ug/L	87
60) Isopropylbenzene	10.997	105	6171	0.115	ug/L	97
61) 1,2,3-Trichloropropane	11.740	75	3822	0.486	ug/L #	69
63) 1,2,4-Trimethylbenzene	11.467	105	6571	0.138	ug/L	100
64) 1,3-Dichlorobenzene	11.743	146	10387	0.452	ug/L	91
65) 1,4-Dichlorobenzene	11.830	146	57479	2.532	ug/L	95
67) 1,2-Dichlorobenzene	12.206	146	13279	0.626	ug/L	96
69) 1,3,5-Trichlorobenzene	13.833	180	95577	5.910	ug/L #	95
70) 1,2,4-trichlorobenzene	13.833	180	95577	7.713	ug/L	97
72) 1,2,3-Trichlorobenzene	14.325	180	15806	1.533	ug/L #	94

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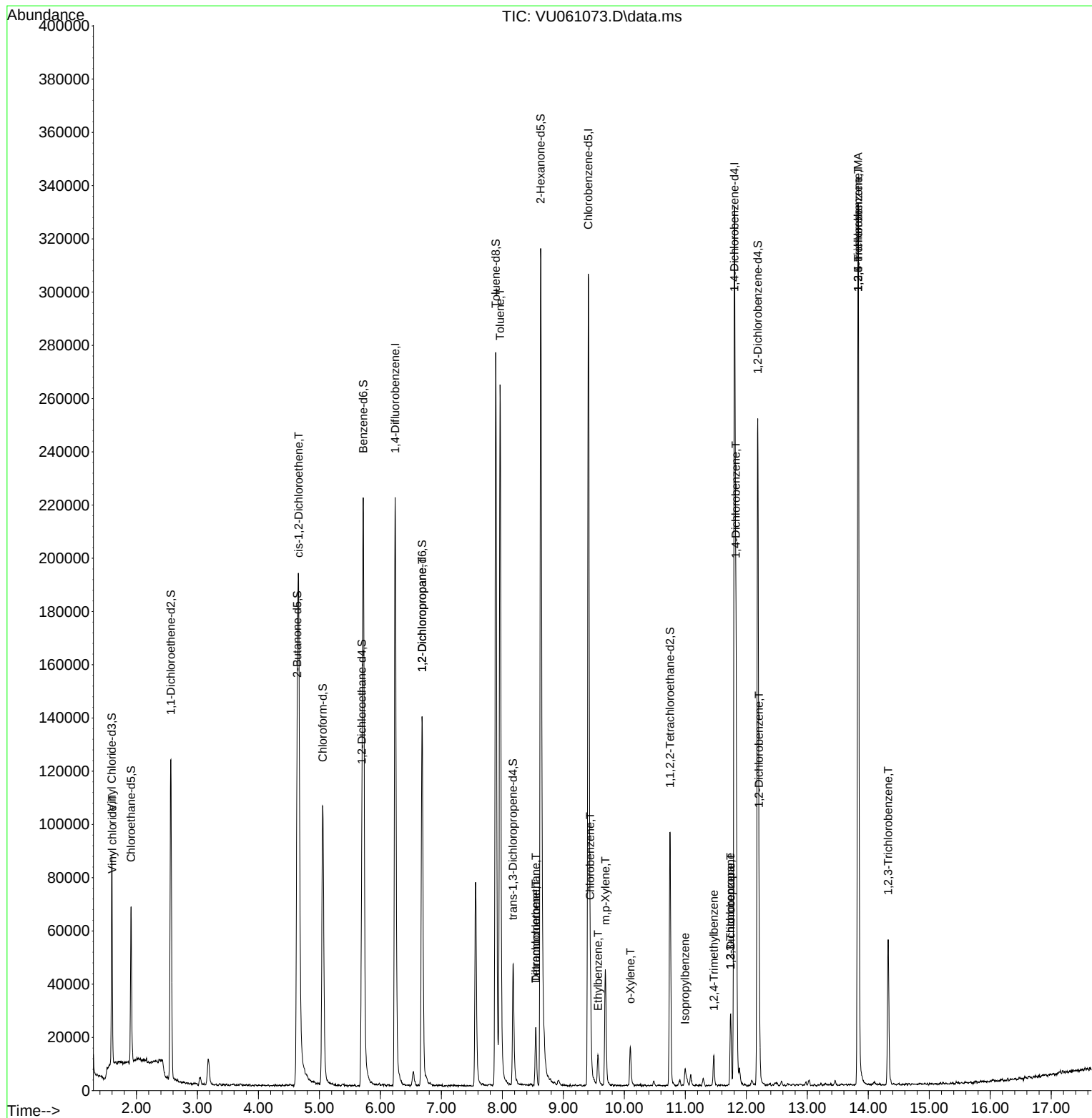
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

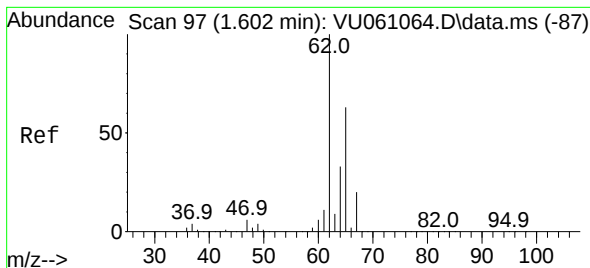
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.180 ug/L

RT: 1.602 min Scan# 91

Delta R.T. -0.000 min

Lab File: VU061073.D

Acq: 02 Oct 2024 14:00

Instrument :

MSVOA_U

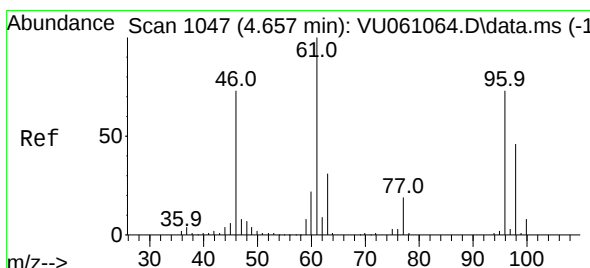
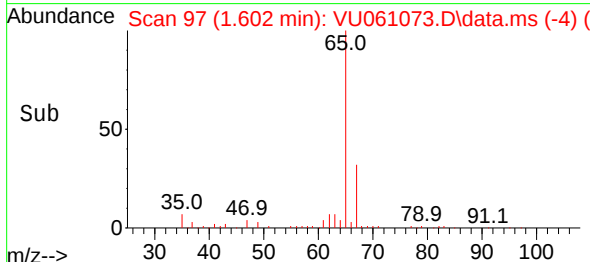
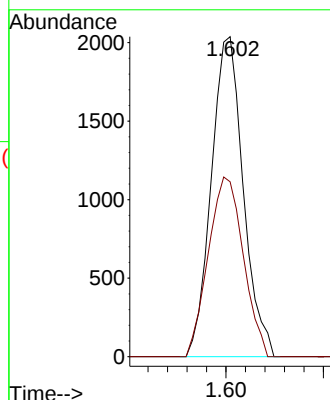
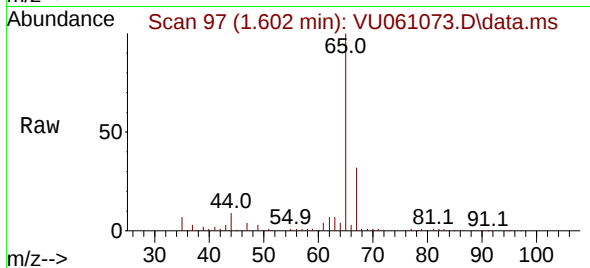
ClientSampleId :

Tgt Ion: 62 Resp: 2319

Ion Ratio Lower Upper

62 100

64 54.7 24.0 44.6#



#22

cis-1,2-Dichloroethene

Concen: 5.430 ug/L

RT: 4.660 min Scan# 1048

Delta R.T. 0.003 min

Lab File: VU061073.D

Acq: 02 Oct 2024 14:00

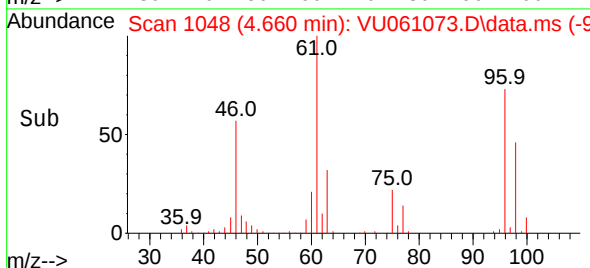
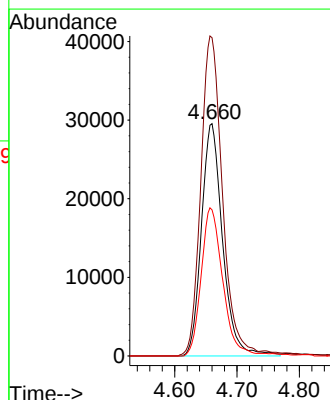
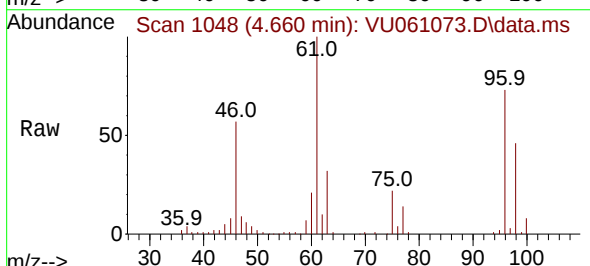
Tgt Ion: 96 Resp: 69717

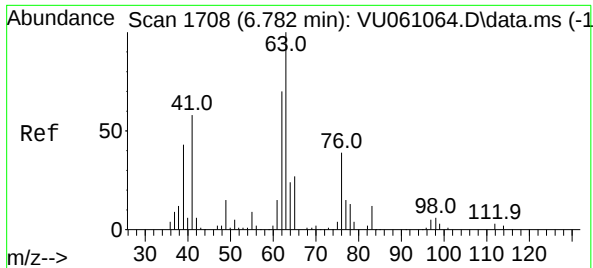
Ion Ratio Lower Upper

96 100

61 137.0 89.7 166.5

98 62.9 45.1 83.9

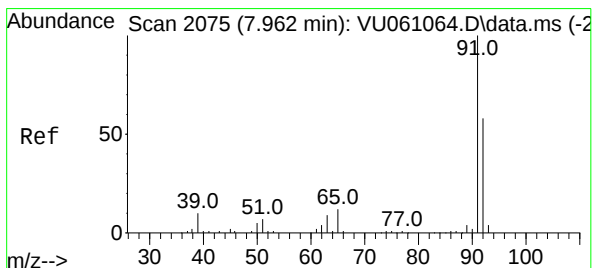
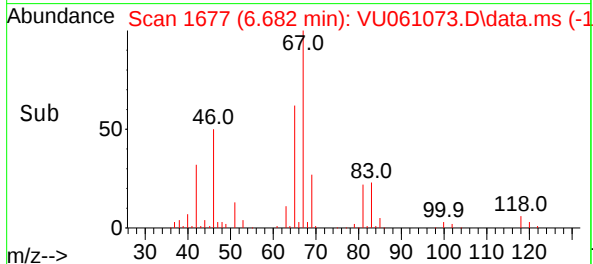
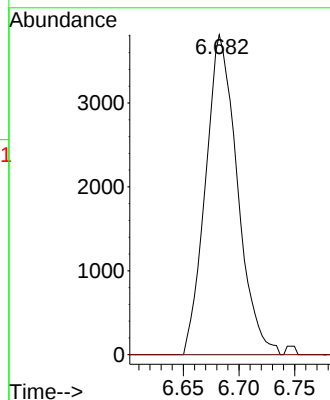
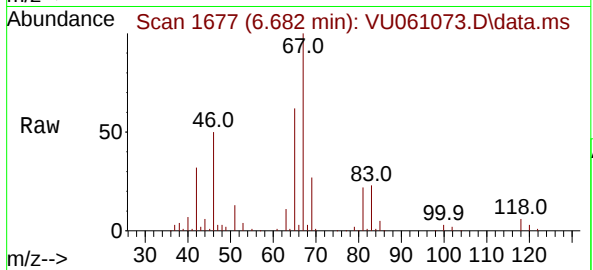




#37
1,2-Dichloropropane
Concen: 0.569 ug/L
RT: 6.682 min Scan# 1
Delta R.T. -0.100 min
Lab File: VU061073.D
Acq: 02 Oct 2024 14:00

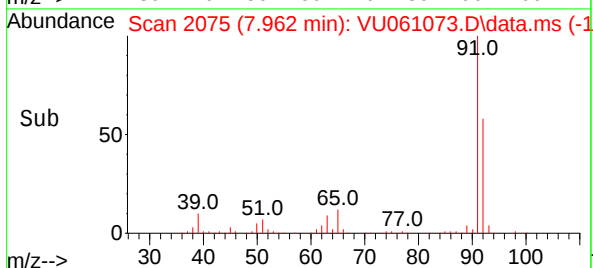
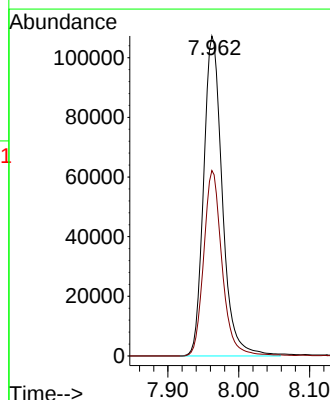
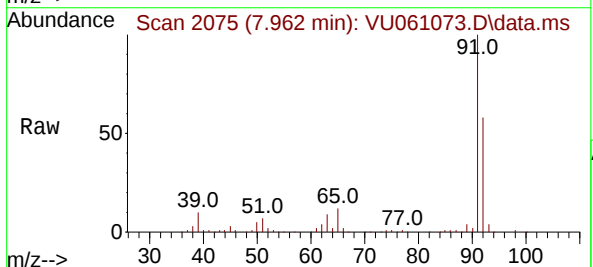
Instrument :
MSVOA_U
ClientSampleId :

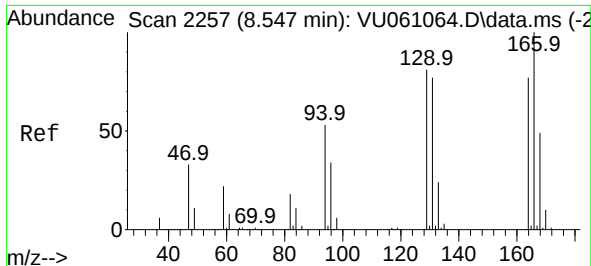
Tgt Ion: 63 Resp: 7572
Ion Ratio Lower Upper
63 100
112 0.0 2.0 3.0#



#42
Toluene
Concen: 3.656 ug/L
RT: 7.962 min Scan# 2075
Delta R.T. -0.000 min
Lab File: VU061073.D
Acq: 02 Oct 2024 14:00

Tgt Ion: 91 Resp: 196590
Ion Ratio Lower Upper
91 100
92 58.0 40.5 75.3





#47

Tetrachloroethene

Concen: 0.488 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.000 min

Lab File: VU061073.D

Acq: 02 Oct 2024 14:00

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:164 Resp: 4344

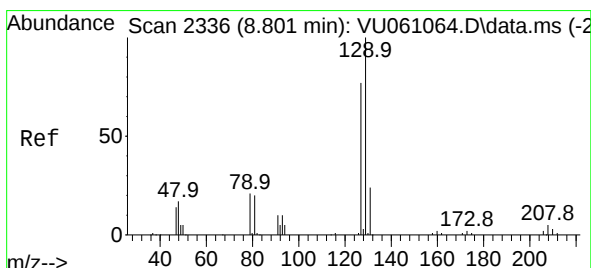
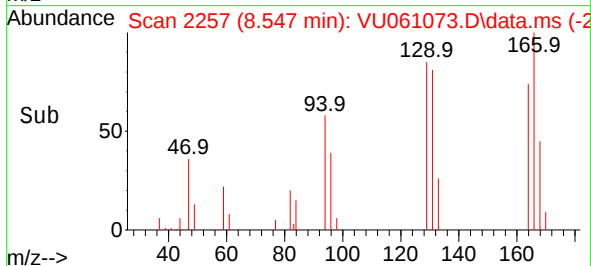
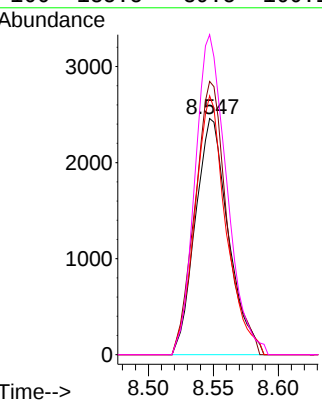
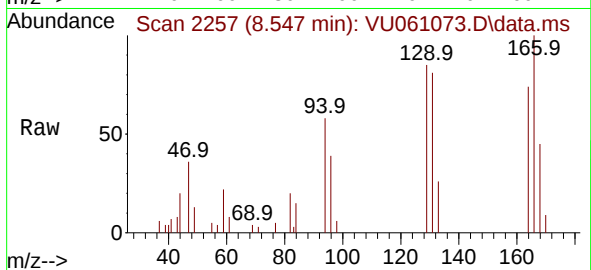
Ion Ratio Lower Upper

164 100

129 115.7 67.3 124.9

131 109.6 65.4 121.4

166 135.5 89.5 166.1



#49

Dibromochloromethane

Concen: 0.473 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.254 min

Lab File: VU061073.D

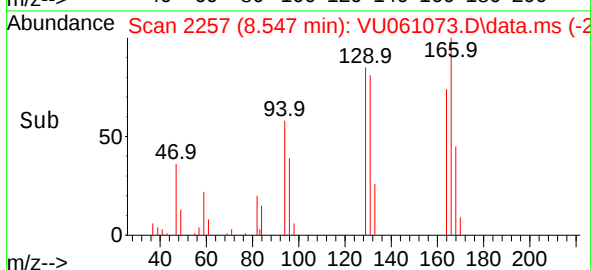
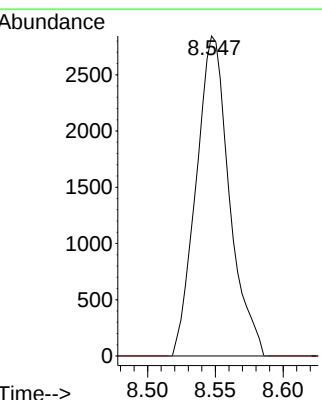
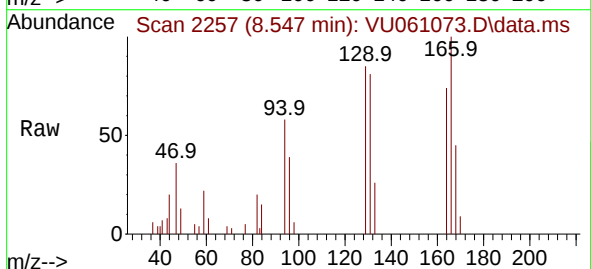
Acq: 02 Oct 2024 14:00

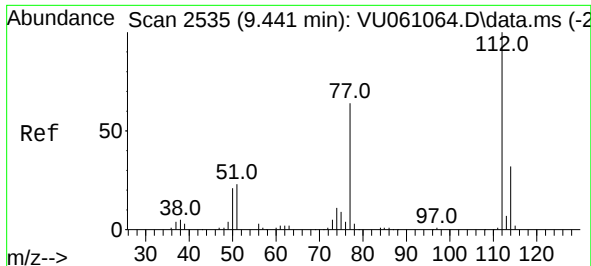
Tgt Ion:129 Resp: 4847

Ion Ratio Lower Upper

129 100

127 0.0 56.1 104.1#





#51

Chlorobenzene

Concen: 0.498 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. -0.000 min

Lab File: VU061073.D

Acq: 02 Oct 2024 14:00

Instrument :

MSVOA_U

ClientSampleId :

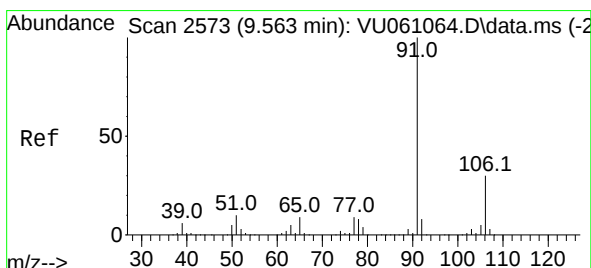
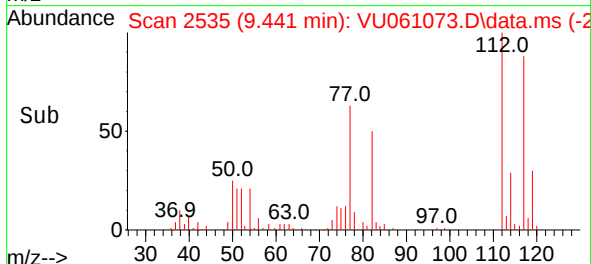
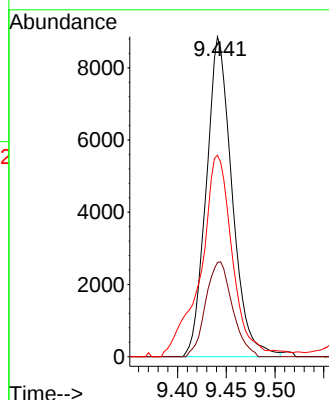
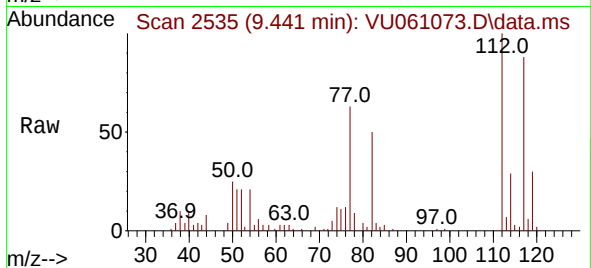
Tgt Ion:112 Resp: 16326

Ion Ratio Lower Upper

112 100

114 29.4 22.2 41.2

77 62.9 46.1 69.1



#52

Ethylbenzene

Concen: 0.156 ug/L

RT: 9.566 min Scan# 2574

Delta R.T. 0.003 min

Lab File: VU061073.D

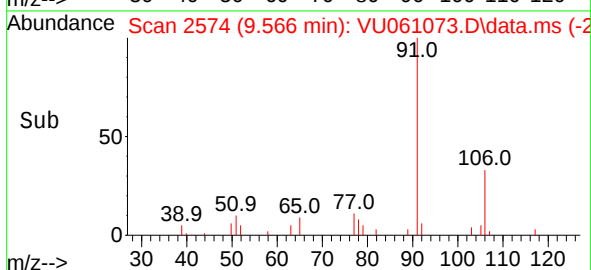
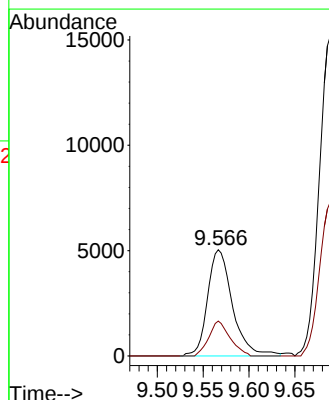
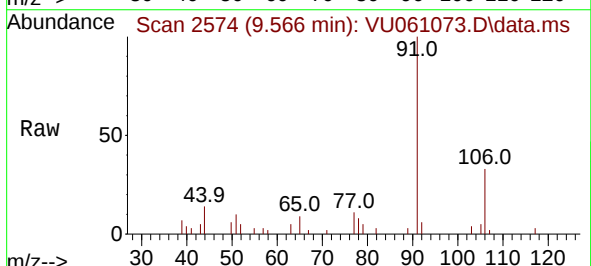
Acq: 02 Oct 2024 14:00

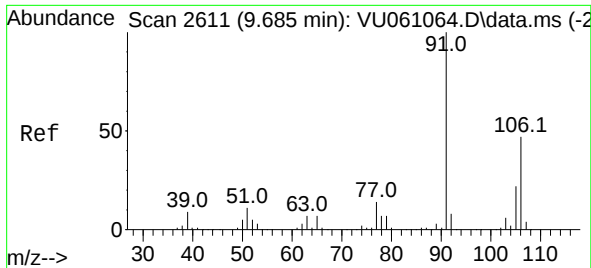
Tgt Ion: 91 Resp: 9515

Ion Ratio Lower Upper

91 100

106 32.8 21.8 40.6

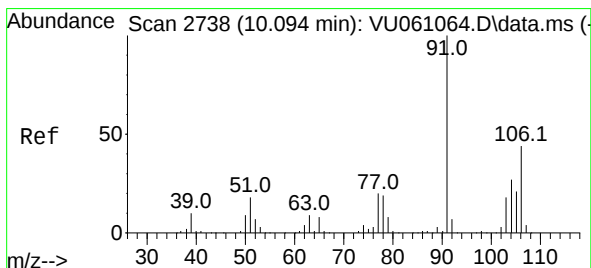
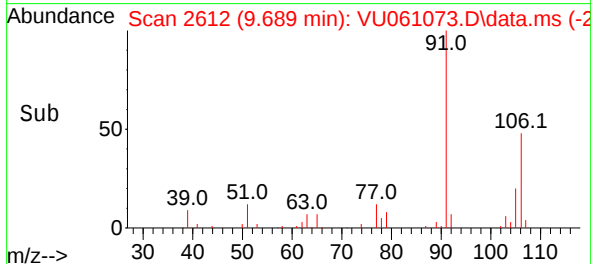
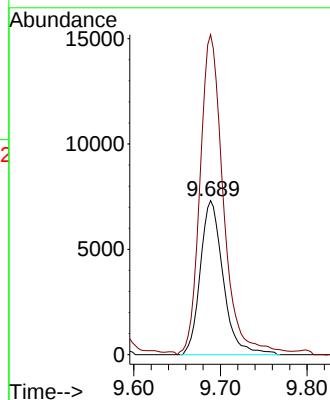
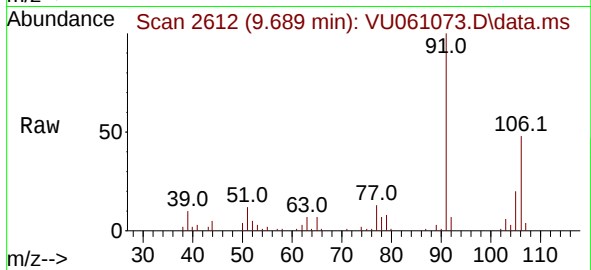




#53
m,p-Xylene
Concen: 0.604 ug/L
RT: 9.689 min Scan# 20
Delta R.T. 0.003 min
Lab File: VU061073.D
Acq: 02 Oct 2024 14:00

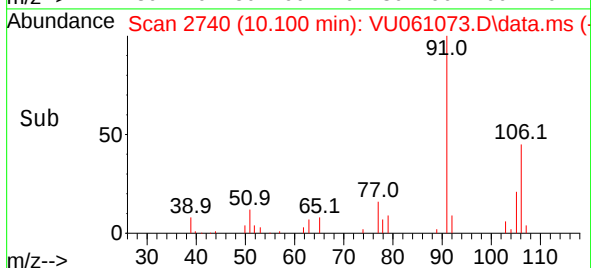
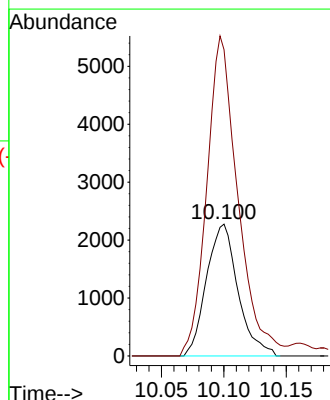
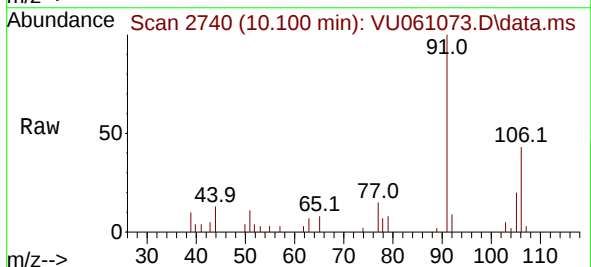
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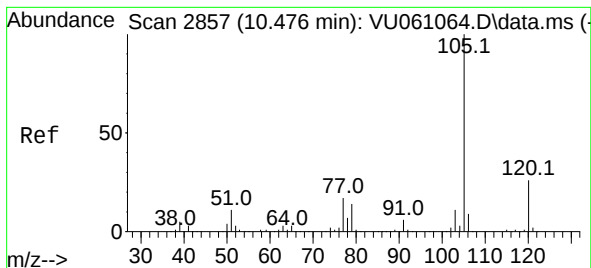
Tgt Ion:106 Resp: 13421
Ion Ratio Lower Upper
106 100
91 207.7 139.7 259.4



#54
o-Xylene
Concen: 0.183 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. 0.006 min
Lab File: VU061073.D
Acq: 02 Oct 2024 14:00

Tgt Ion:106 Resp: 4001
Ion Ratio Lower Upper
106 100
91 232.4 148.6 276.0





#60

Isopropylbenzene

Concen: 0.115 ug/L

RT: 10.997 min Scan# 3019

Delta R.T. 0.521 min

Lab File: VU061073.D

Acq: 02 Oct 2024 14:00

Instrument :

MSVOA_U

ClientSampleId :

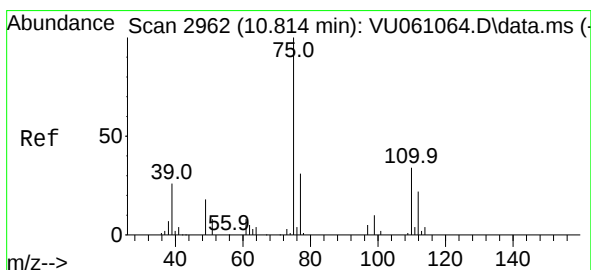
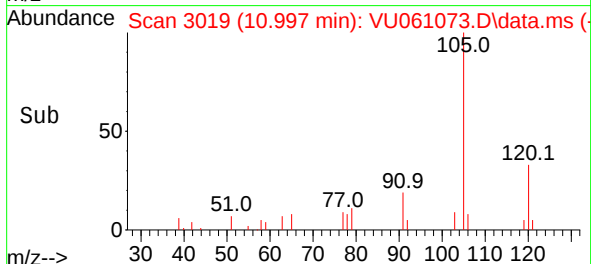
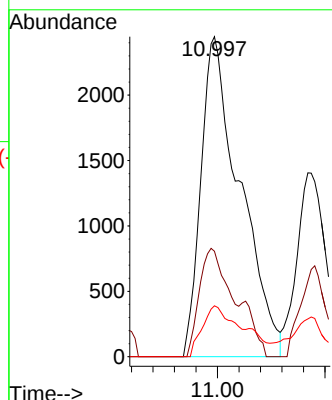
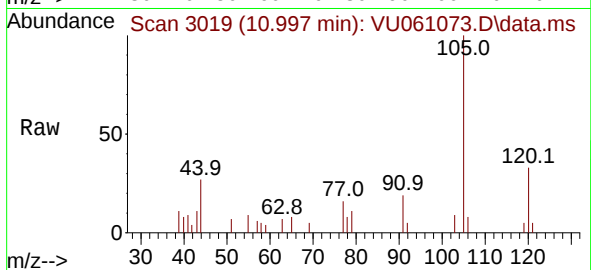
Tgt Ion:105 Resp: 6171

Ion Ratio Lower Upper

105 100

120 25.4 21.5 32.3

77 16.7 12.6 18.8



#61

1,2,3-Trichloropropane

Concen: 0.486 ug/L

RT: 11.740 min Scan# 3250

Delta R.T. 0.926 min

Lab File: VU061073.D

Acq: 02 Oct 2024 14:00

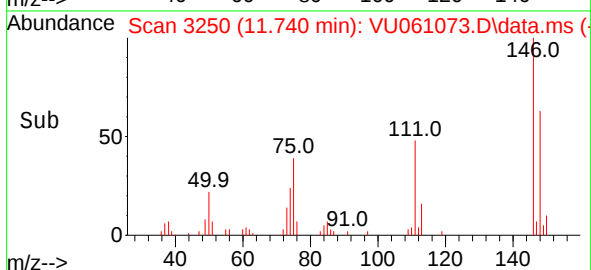
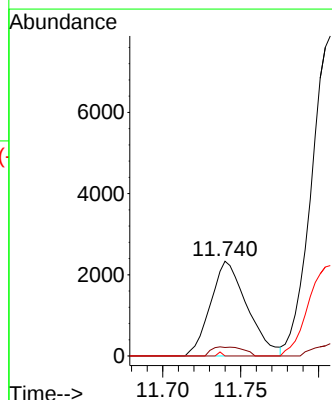
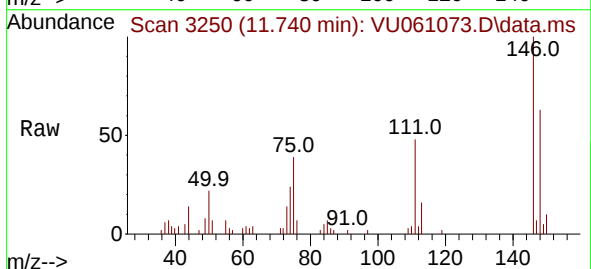
Tgt Ion: 75 Resp: 3822

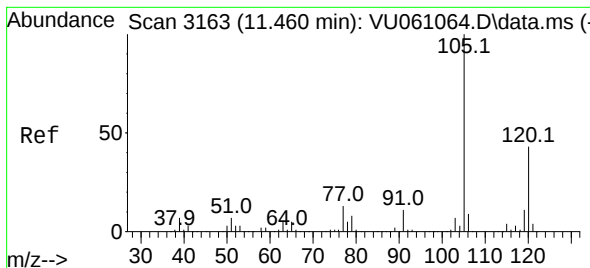
Ion Ratio Lower Upper

75 100

110 8.2 28.6 43.0#

77 25.0 26.3 39.5#





#63

1,2,4-Trimethylbenzene

Concen: 0.138 ug/L

RT: 11.467 min Scan# 3163

Delta R.T. 0.006 min

Lab File: VU061073.D

Acq: 02 Oct 2024 14:00

Instrument :

MSVOA_U

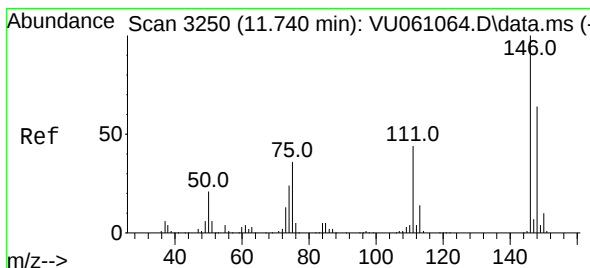
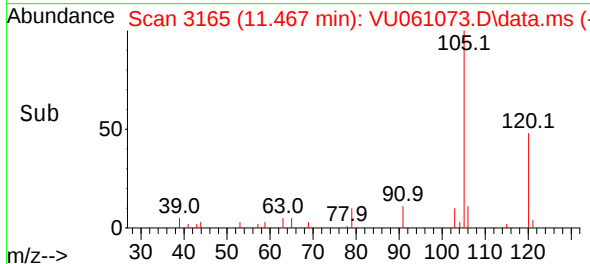
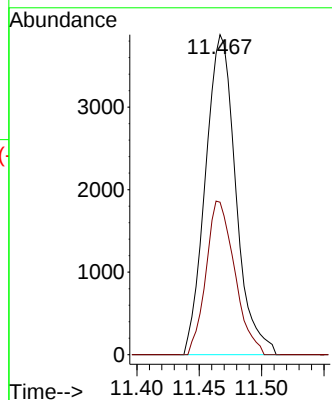
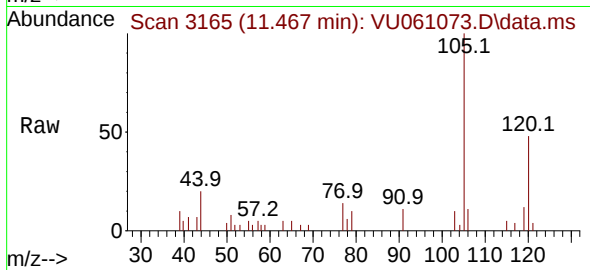
ClientSampleId :

Tgt Ion:105 Resp: 6571

Ion Ratio Lower Upper

105 100

120 45.3 36.1 54.1



#64

1,3-Dichlorobenzene

Concen: 0.452 ug/L

RT: 11.743 min Scan# 3251

Delta R.T. 0.003 min

Lab File: VU061073.D

Acq: 02 Oct 2024 14:00

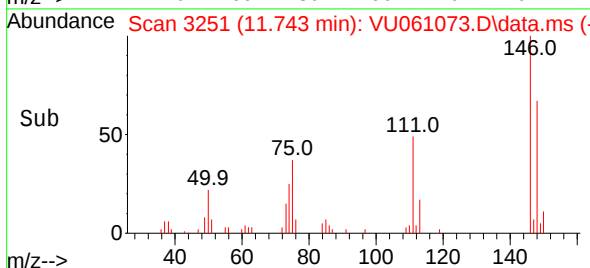
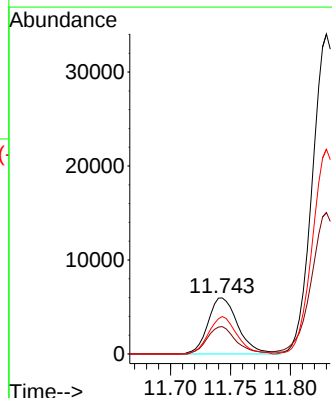
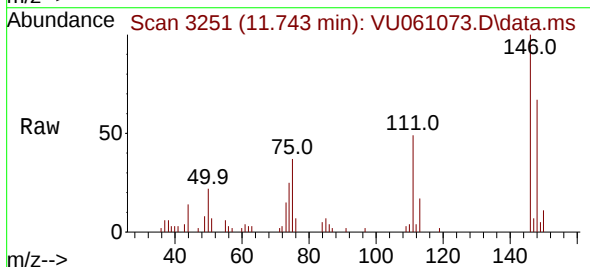
Tgt Ion:146 Resp: 10387

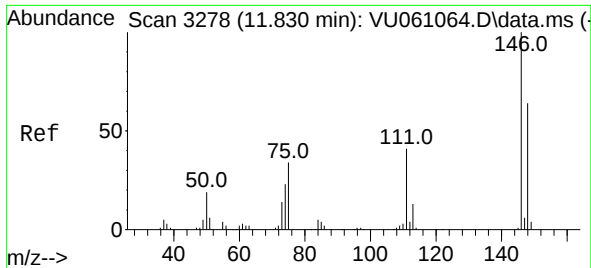
Ion Ratio Lower Upper

146 100

111 48.7 27.5 51.1

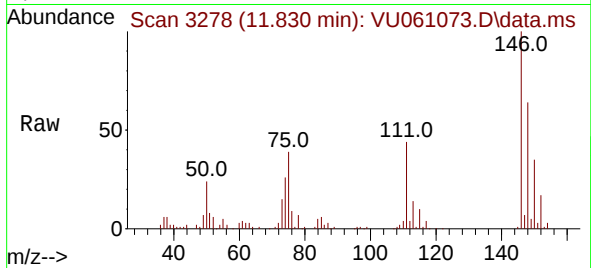
148 66.7 43.7 81.1



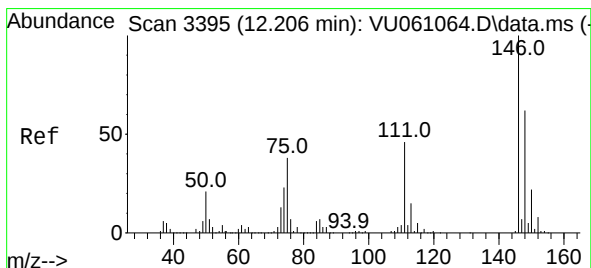
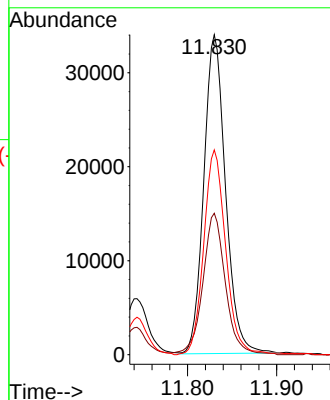
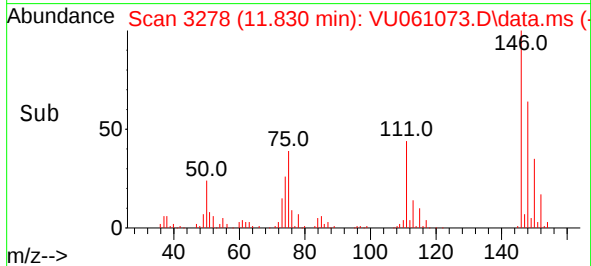


#65
1,4-Dichlorobenzene
Concen: 2.532 ug/L
RT: 11.830 min Scan# 3278
Delta R.T. -0.000 min
Lab File: VU061073.D
Acq: 02 Oct 2024 14:00

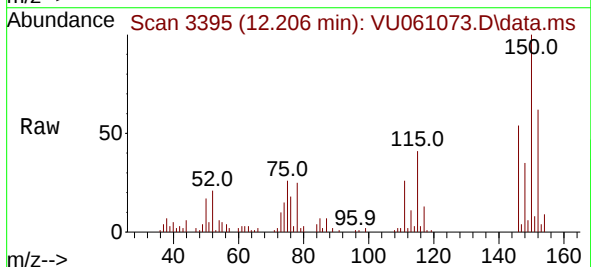
Instrument :
MSVOA_U
ClientSampleId :



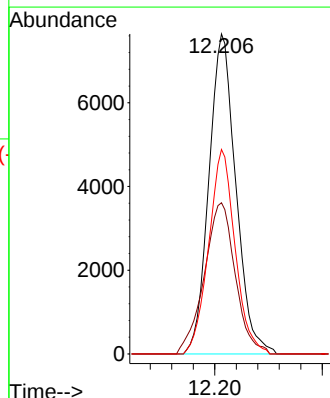
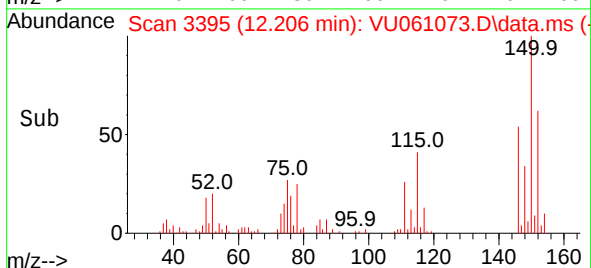
Tgt Ion:146 Resp: 57479
Ion Ratio Lower Upper
146 100
111 44.2 26.3 48.9
148 64.0 45.3 84.1

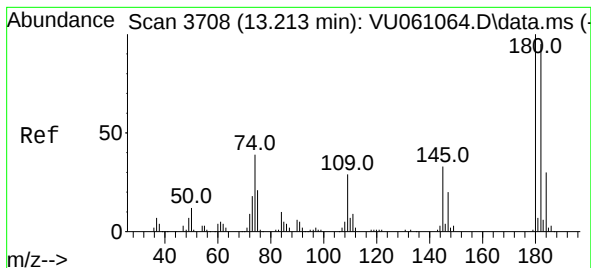


#67
1,2-Dichlorobenzene
Concen: 0.626 ug/L
RT: 12.206 min Scan# 3395
Delta R.T. -0.000 min
Lab File: VU061073.D
Acq: 02 Oct 2024 14:00



Tgt Ion:146 Resp: 13279
Ion Ratio Lower Upper
146 100
111 47.3 33.4 50.0
148 63.9 50.9 76.3





#69

1,3,5-Trichlorobenzene

Concen: 5.910 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. 0.621 min

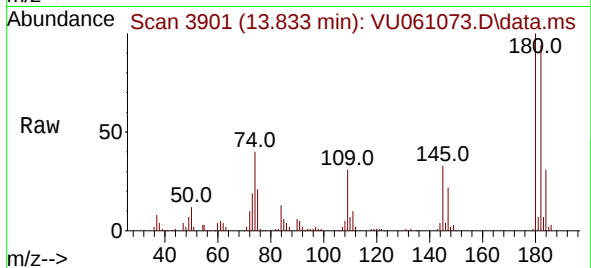
Lab File: VU061073.D

Acq: 02 Oct 2024 14:00

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 95577

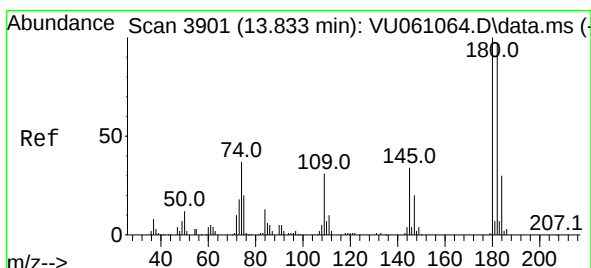
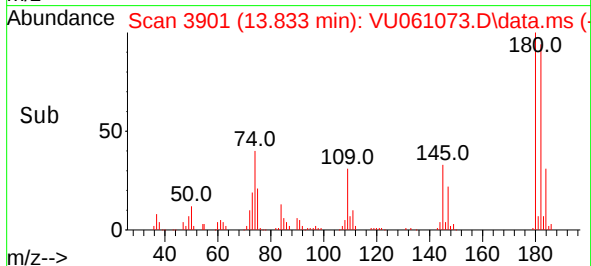
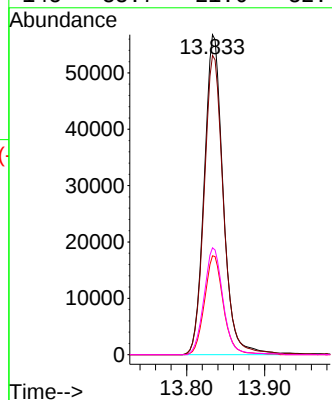
Ion Ratio Lower Upper

180 100

182 95.7 74.5 111.7

184 31.0 23.2 34.8

145 33.7 21.6 32.4#



#70

1,2,4-trichlorobenzene

Concen: 7.713 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. -0.000 min

Lab File: VU061073.D

Acq: 02 Oct 2024 14:00

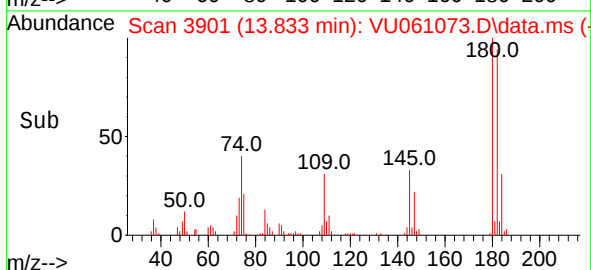
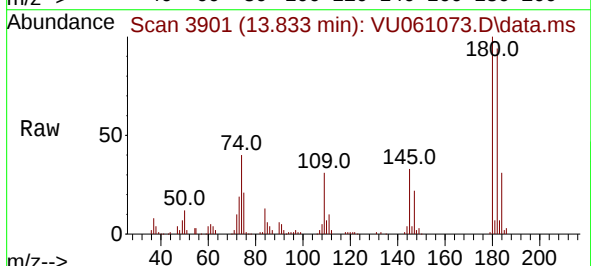
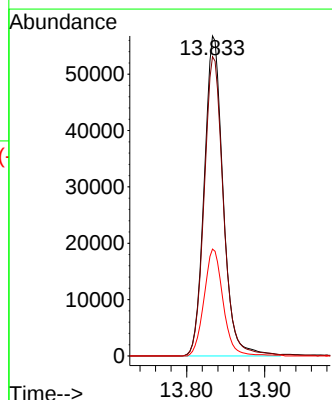
Tgt Ion:180 Resp: 95577

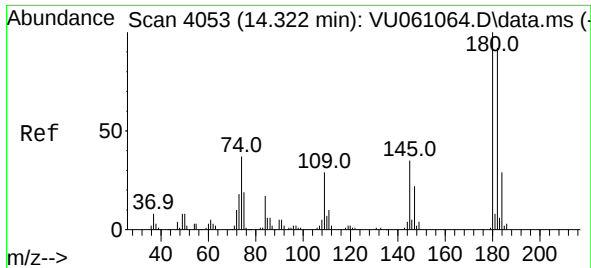
Ion Ratio Lower Upper

180 100

182 95.7 77.4 116.2

145 33.7 22.9 34.3





#72

1,2,3-Trichlorobenzene

Concen: 1.533 ug/L

RT: 14.325 min Scan# 4054

Delta R.T. 0.003 min

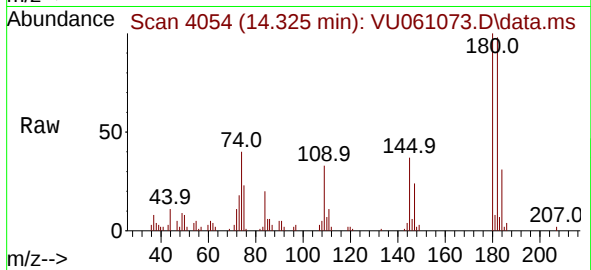
Lab File: VU061073.D

Acq: 02 Oct 2024 14:00

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 15806

Ion Ratio Lower Upper

180 100

182 98.8 75.7 113.5

145 35.9 23.5 35.3#

