

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU121623\
 Data File : VU056961.D
 Acq On : 17 Dec 2023 07:07
 Operator : MD/SY
 Sample : 05811-20
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Dec 18 00:38:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR121123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Mon Dec 18 00:34:01 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	279162	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	252007	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.810	152	157194	5.000	ug/L	# 0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	65707	2.746	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	55.000%
7) Chloroethane-d5	1.907	69	58655	3.276	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	65.600%
11) 1,1-Dichloroethene-d2	2.560	65	30064	2.936	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.800%#
20) 2-Butanone-d5	4.621	46	198822	42.073	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	84.140%
24) Chloroform-d	5.055	84	161404	3.562	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	71.200%
26) 1,2-Dichloroethane-d4	5.695	65	80898	3.773	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.400%
32) Benzene-d6	5.721	84	298280	3.816	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	76.400%
36) 1,2-Dichloropropane-d6	6.685	67	99549	4.069	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	81.400%
41) Toluene-d8	7.894	98	233236	3.339	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	66.800%#
43) trans-1,3-Dichloroprop...	8.177	79	33098	3.488	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	69.800%
46) 2-Hexanone-d5	8.627	63	160580	44.875	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.740%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	73586	4.157	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	83.200%
66) 1,2-Dichlorobenzene-d4	12.203	152	108193	3.501	ug/L	0.02
Spiked Amount	5.000	Range	80 - 120	Recovery	=	70.000%#
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	14696	0.511	ug/L	99
5) Vinyl chloride	1.602	62	88061	3.083	ug/L	100
16) Methylene chloride	3.039	84	7297	0.296	ug/L	97
18) trans-1,2-Dichloroethene	3.348	96	77312	3.364	ug/L	96
19) 1,1-Dichloroethane	3.862	63	10333	0.234	ug/L	96
22) cis-1,2-Dichloroethene	4.656	96	787018	31.481	ug/L	99
27) 1,2-Dichloroethane	5.788	62	28242	1.031	ug/L	97
33) Benzene	5.769	78	458205	5.174	ug/L	100
37) 1,2-Dichloropropane	6.685	63	10299	0.455	ug/L	# 88
42) Toluene	7.965	91	53155	0.580	ug/L	100
47) Tetrachloroethene	8.550	164	3294	0.194	ug/L	96
49) Dibromochloromethane	8.550	129	3436	0.195	ug/L	# 11
51) Chlorobenzene	9.441	112	7095524	121.485	ug/L	99
52) Ethylbenzene	9.566	91	13429	0.133	ug/L	99
53) m,p-Xylene	9.688	106	5726	0.152	ug/L	76
54) o-Xylene	10.097	106	8541	0.238	ug/L	95
60) Isopropylbenzene	10.994	105	179277	1.444	ug/L	# 80
61) 1,2,3-Trichloropropane	11.740	75	346226	20.513	ug/L	# 40
62) 1,3,5-Trimethylbenzene	11.084	105	121152	1.194	ug/L	98

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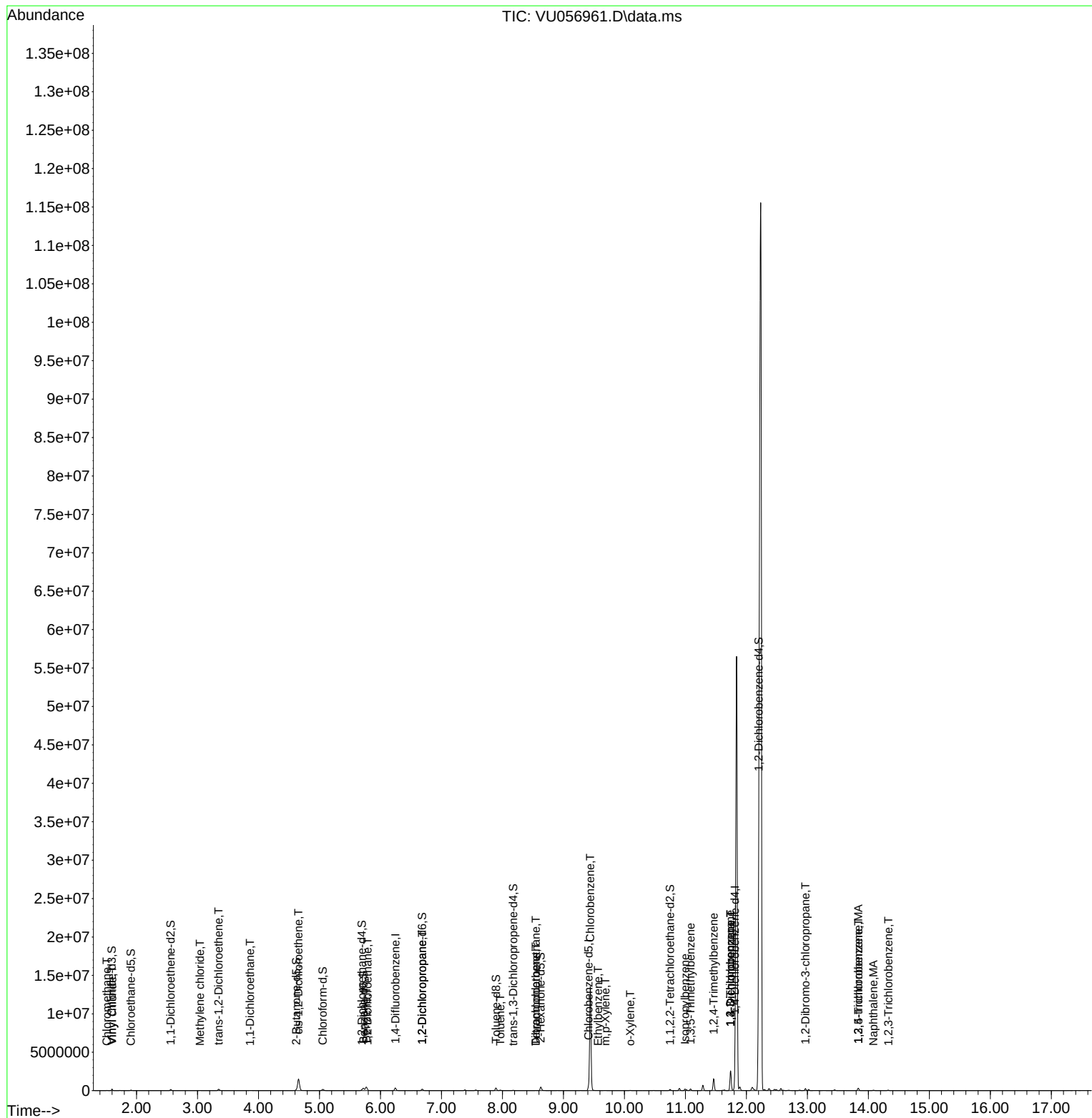
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	11.463	105	863982	8.570	ug/L	100
64) 1,3-Dichlorobenzene	11.743	146	1013780	17.256	ug/L	99
65) 1,4-Dichlorobenzene	11.743	146	1013780	17.525	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.968	75	3108	0.922	ug/L #	7
69) 1,3,5-Trichlorobenzene	13.836	180	96084	2.164	ug/L	99
70) 1,2,4-trichlorobenzene	13.836	180	96084	2.733	ug/L	98
71) Naphthalene	14.084	128	51558	1.002	ug/L	98
72) 1,2,3-Trichlorobenzene	14.328	180	21650	0.725	ug/L	98

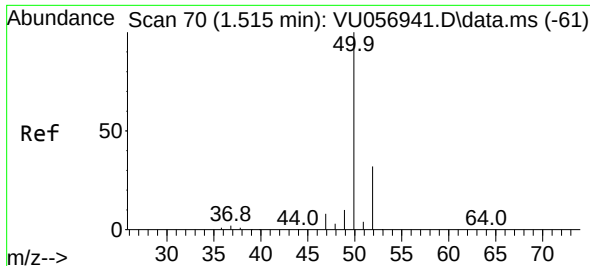
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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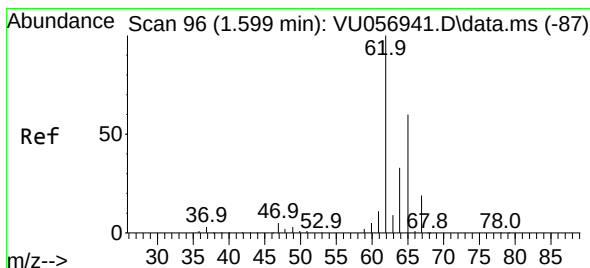
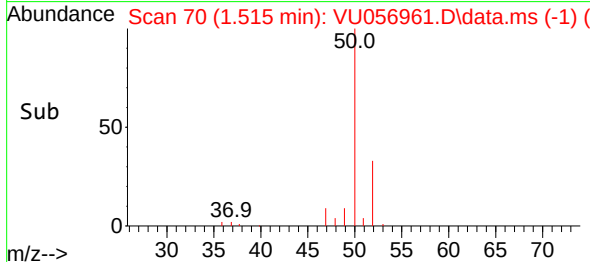
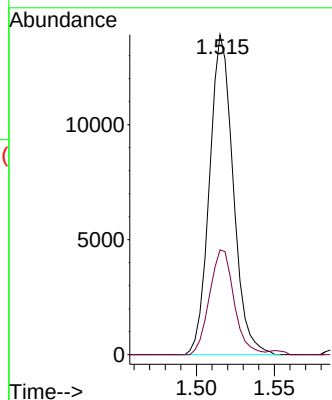
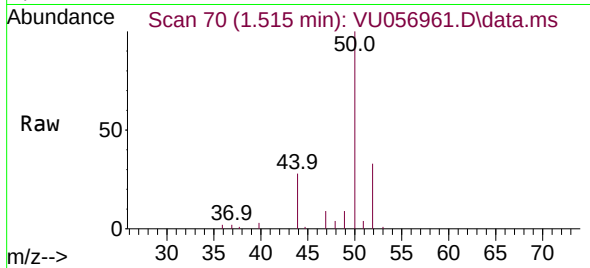




#3
Chloromethane
Concen: 0.511 ug/L
RT: 1.515 min Scan# 70
Delta R.T. 0.000 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

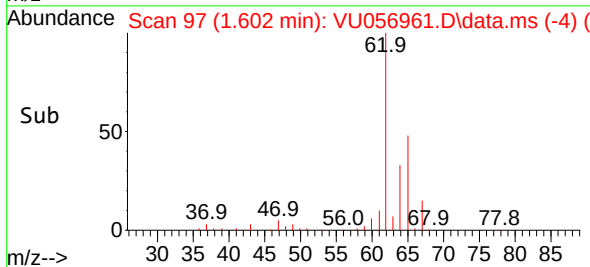
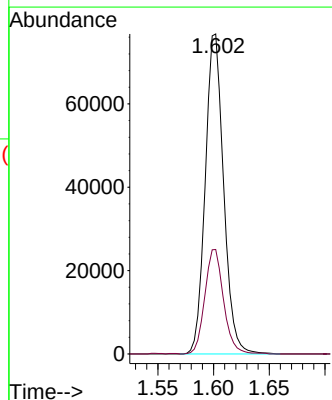
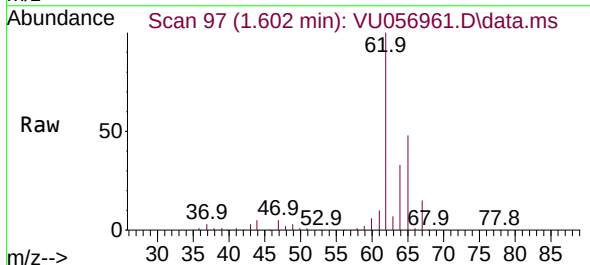
Instrument :
MSVOA_U
ClientSampleId :

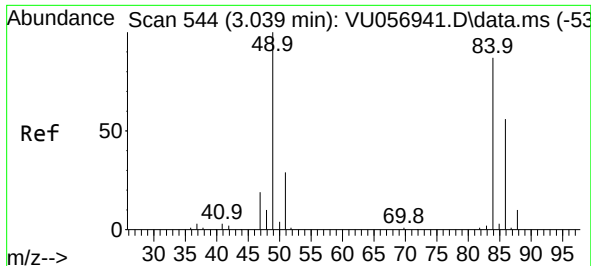
Tgt Ion: 50 Resp: 14696
Ion Ratio Lower Upper
50 100
52 32.8 22.5 41.7



#5
Vinyl chloride
Concen: 3.083 ug/L
RT: 1.602 min Scan# 97
Delta R.T. 0.000 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

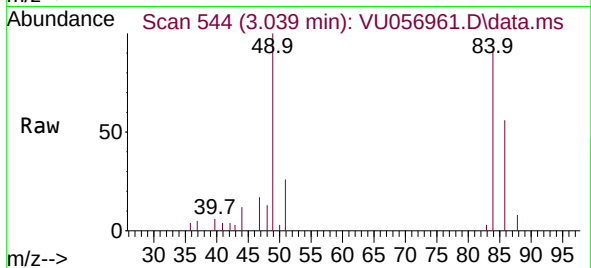
Tgt Ion: 62 Resp: 88061
Ion Ratio Lower Upper
62 100
64 32.7 22.8 42.4



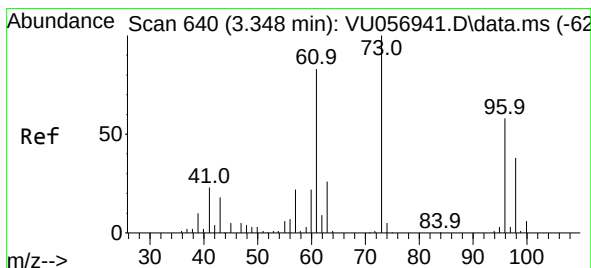
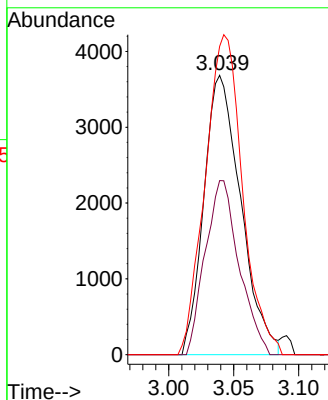
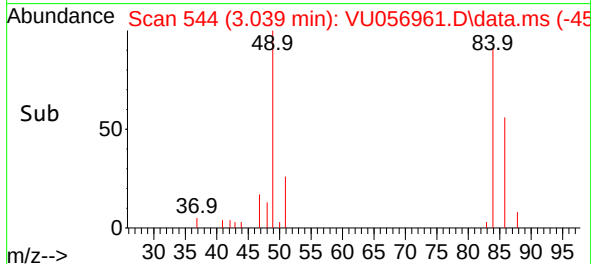


#16
Methylene chloride
Concen: 0.296 ug/L
RT: 3.039 min Scan# 544
Delta R.T. 0.000 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

Instrument :
MSVOA_U
ClientSampleId :

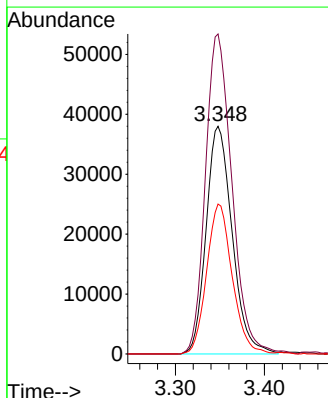
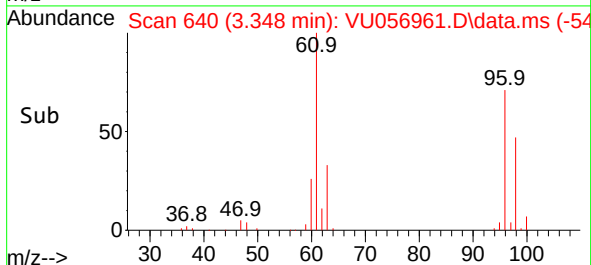
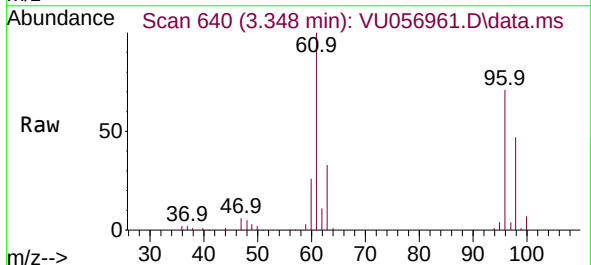


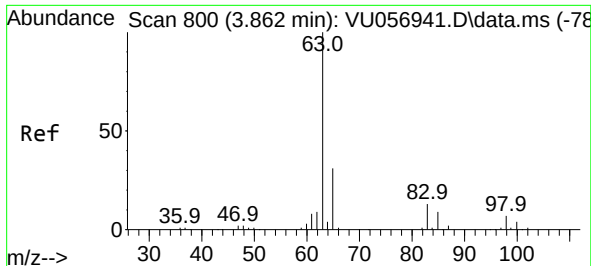
Tgt Ion: 84 Resp: 7297
Ion Ratio Lower Upper
84 100
86 62.3 43.6 81.0
49 110.3 80.6 149.6



#18
trans-1,2-Dichloroethene
Concen: 3.364 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.000 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

Tgt Ion: 96 Resp: 77312
Ion Ratio Lower Upper
96 100
61 140.6 101.8 189.0
98 65.8 43.0 79.8





#19

1,1-Dichloroethane

Concen: 0.234 ug/L

RT: 3.862 min Scan# 800

Delta R.T. 0.003 min

Lab File: VU056961.D

Acq: 17 Dec 2023 07:07

Instrument :

MSVOA_U

ClientSampleId :

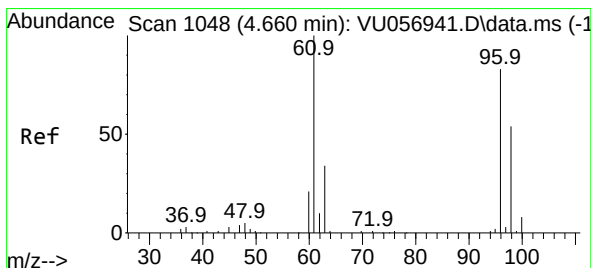
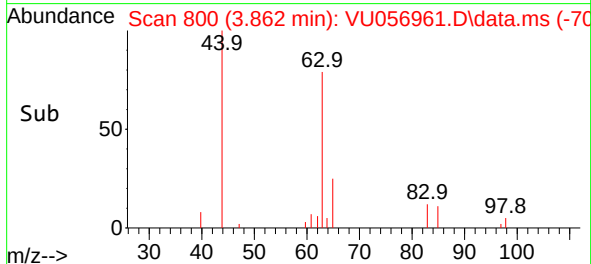
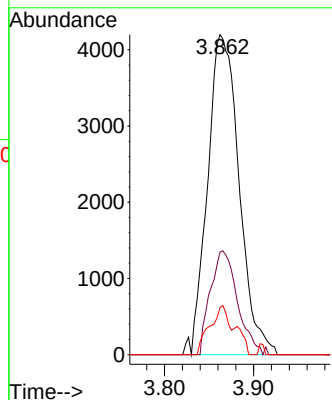
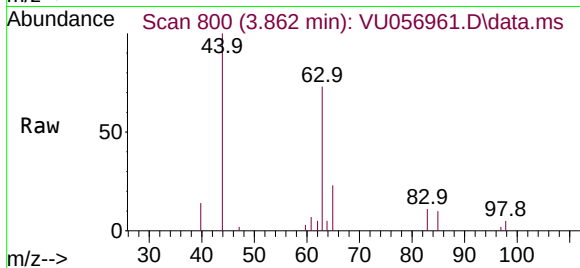
Tgt Ion: 63 Resp: 10333

Ion Ratio Lower Upper

63 100

65 30.1 22.9 42.5

83 13.9 10.1 18.9



#22

cis-1,2-Dichloroethene

Concen: 31.481 ug/L

RT: 4.656 min Scan# 1047

Delta R.T. -0.003 min

Lab File: VU056961.D

Acq: 17 Dec 2023 07:07

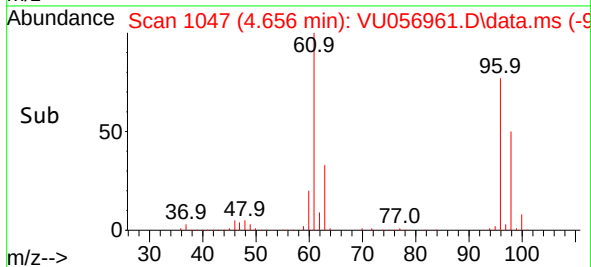
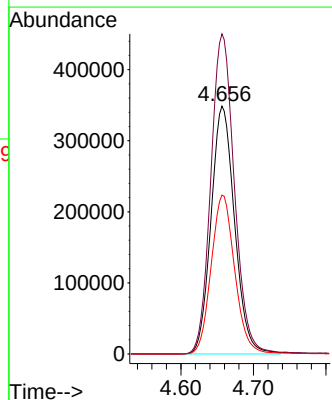
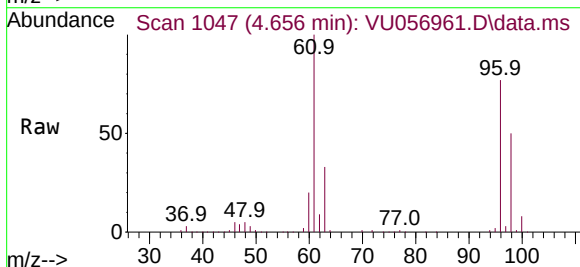
Tgt Ion: 96 Resp: 787018

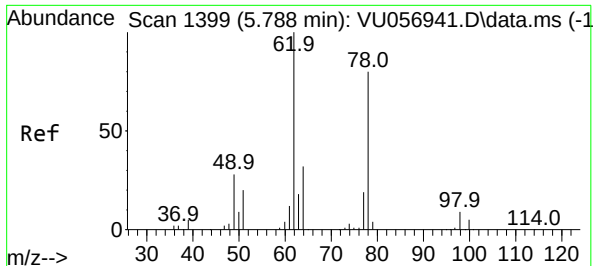
Ion Ratio Lower Upper

96 100

61 129.2 91.3 169.6

98 64.1 44.2 82.0

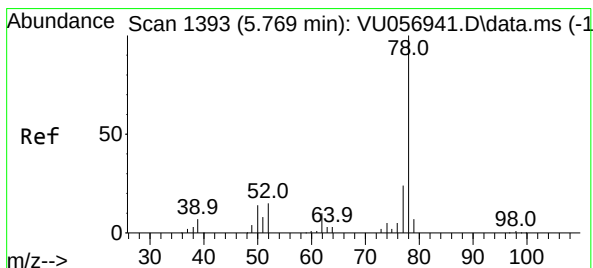
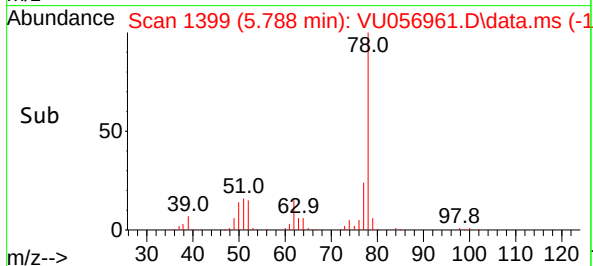
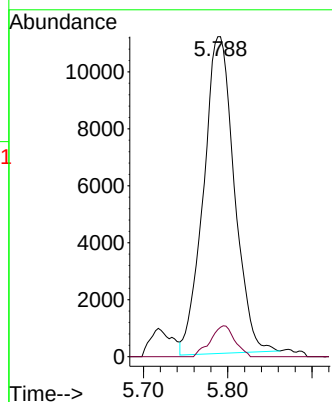
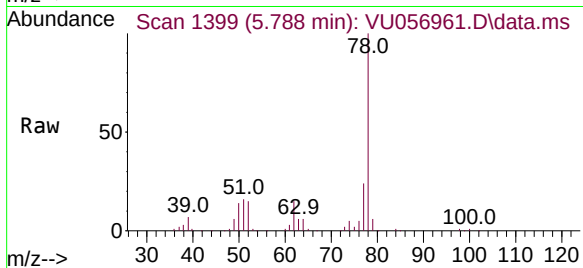




#27
1,2-Dichloroethane
Concen: 1.031 ug/L
RT: 5.788 min Scan# 1399
Delta R.T. 0.000 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

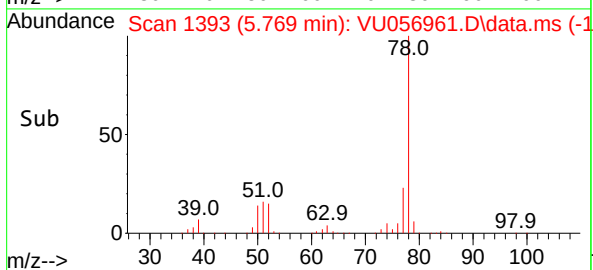
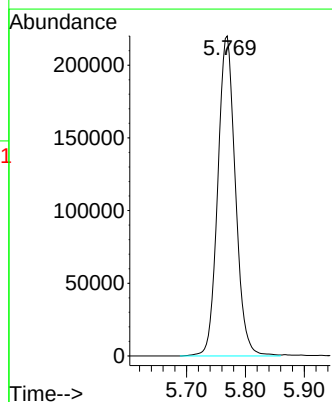
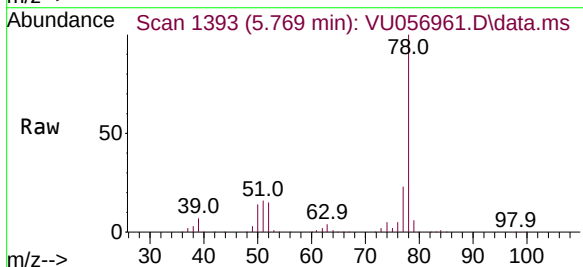
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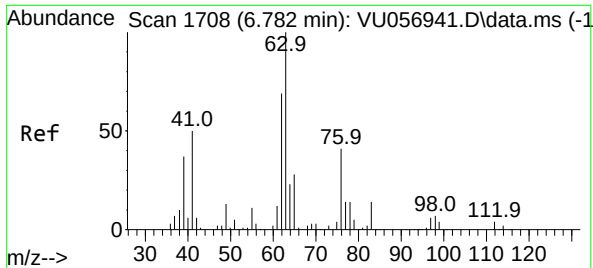
Tgt Ion: 62 Resp: 28242
Ion Ratio Lower Upper
62 100
98 8.5 7.8 11.6



#33
Benzene
Concen: 5.174 ug/L
RT: 5.769 min Scan# 1393
Delta R.T. 0.000 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

Tgt Ion: 78 Resp: 458205

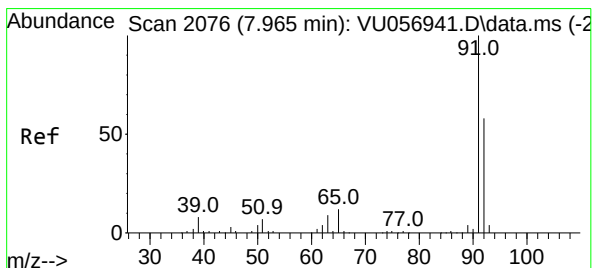
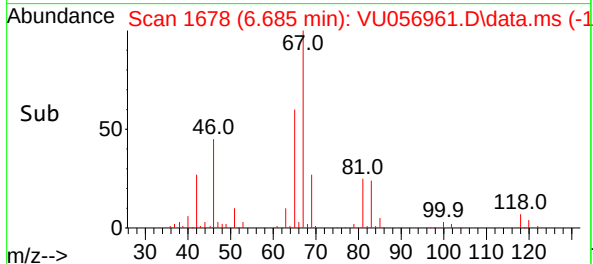
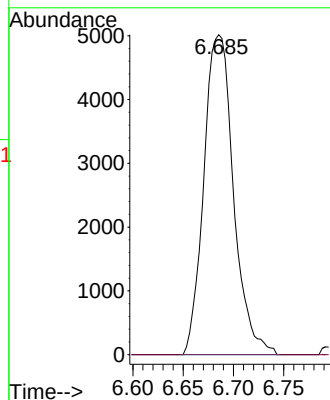
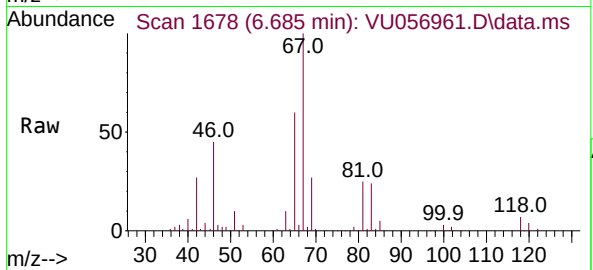




#37
1,2-Dichloropropane
Concen: 0.455 ug/L
RT: 6.685 min Scan# 1
Delta R.T. -0.100 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

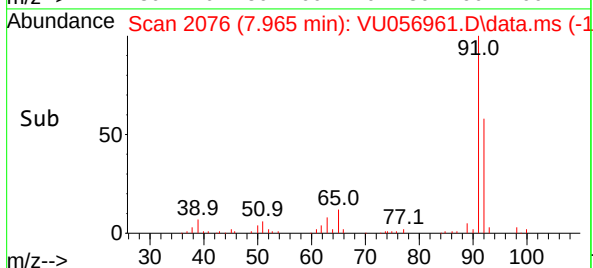
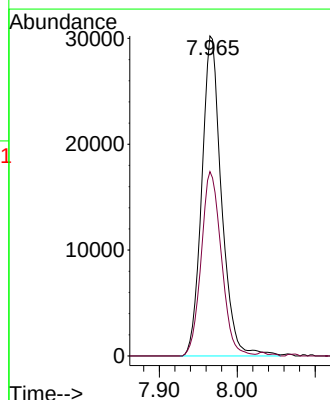
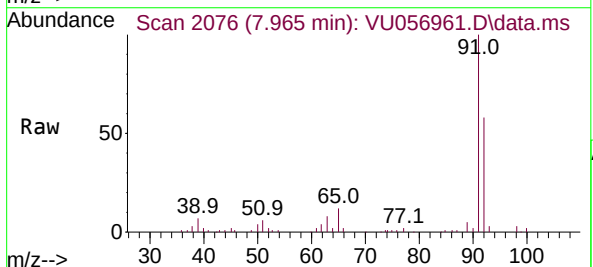
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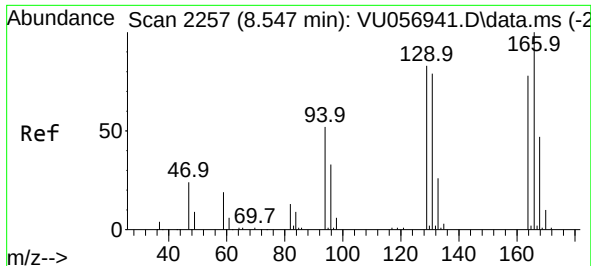
Tgt Ion: 63 Resp: 10299
Ion Ratio Lower Upper
63 100
112 0.2 3.3 4.9#



#42
Toluene
Concen: 0.580 ug/L
RT: 7.965 min Scan# 2076
Delta R.T. 0.000 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

Tgt Ion: 91 Resp: 53155
Ion Ratio Lower Upper
91 100
92 57.6 40.4 75.0





#47

Tetrachloroethene

Concen: 0.194 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. 0.000 min

Lab File: VU056961.D

Acq: 17 Dec 2023 07:07

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:164 Resp: 3294

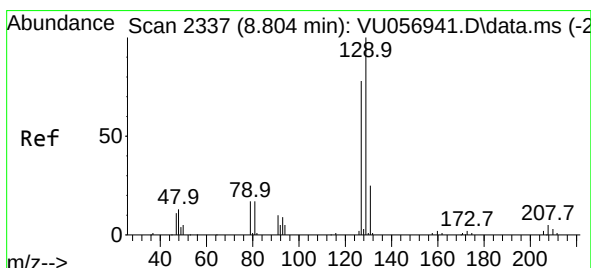
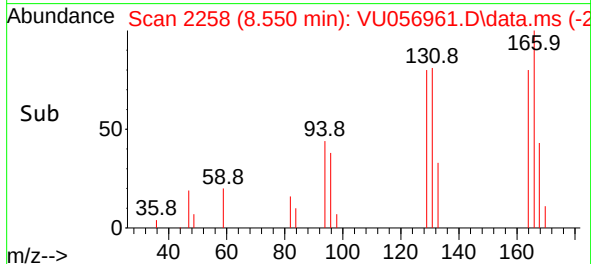
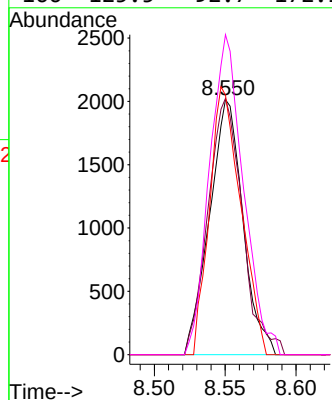
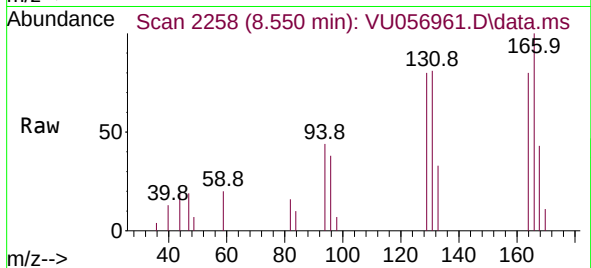
Ion Ratio Lower Upper

164 100

129 100.5 73.4 136.4

131 101.8 71.5 132.9

166 125.5 92.7 172.1



#49

Dibromochloromethane

Concen: 0.195 ug/L

RT: 8.550 min Scan# 2258

Delta R.T. -0.254 min

Lab File: VU056961.D

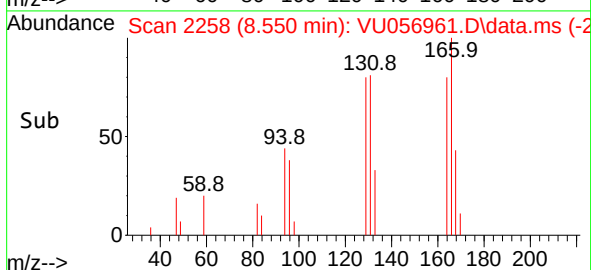
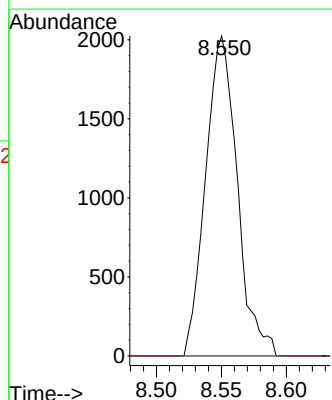
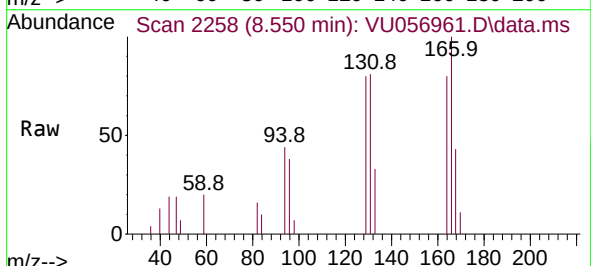
Acq: 17 Dec 2023 07:07

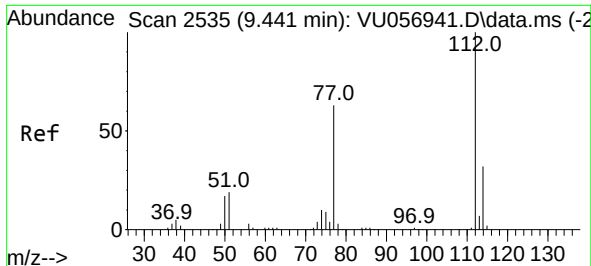
Tgt Ion:129 Resp: 3436

Ion Ratio Lower Upper

129 100

127 0.0 53.9 100.1#

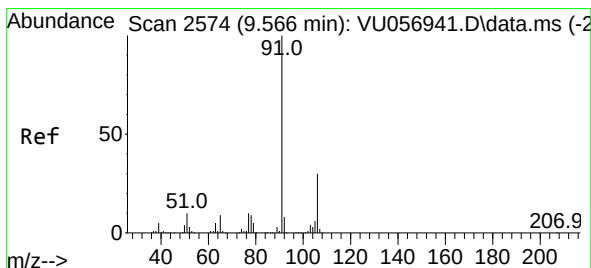
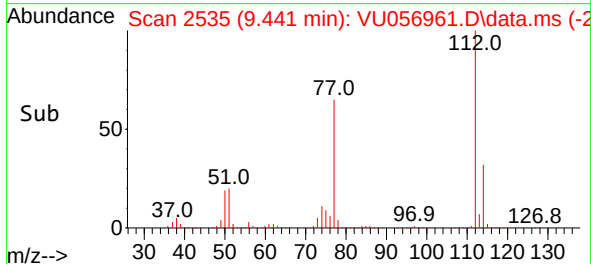
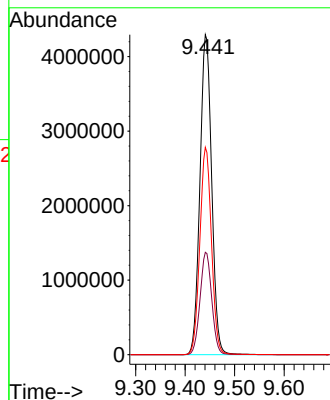
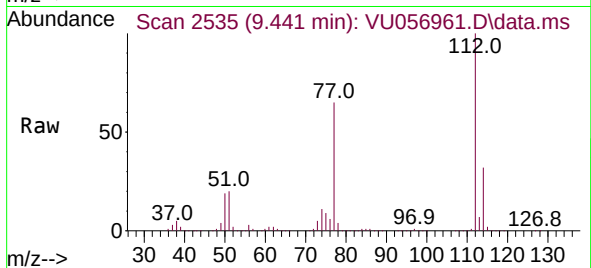




#51
Chlorobenzene
Concen: 121.485 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. -0.003 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

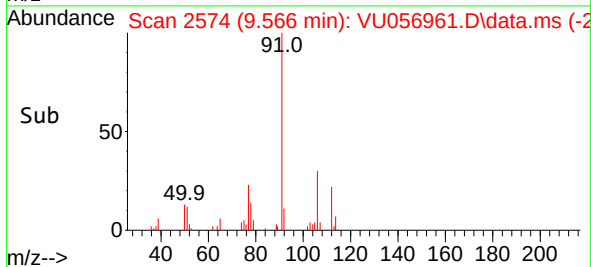
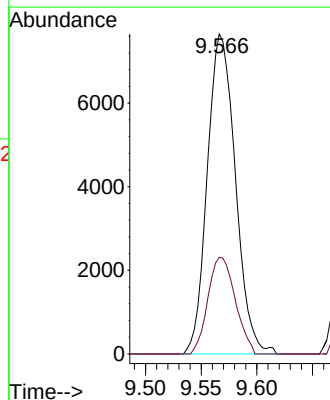
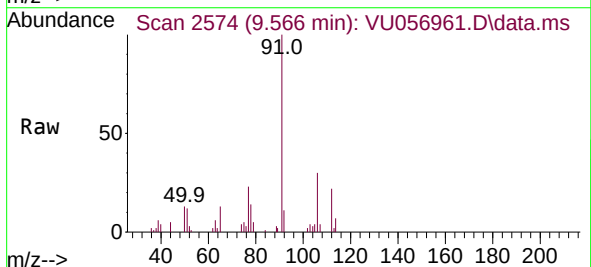
Instrument :
MSVOA_U
ClientSampleId :

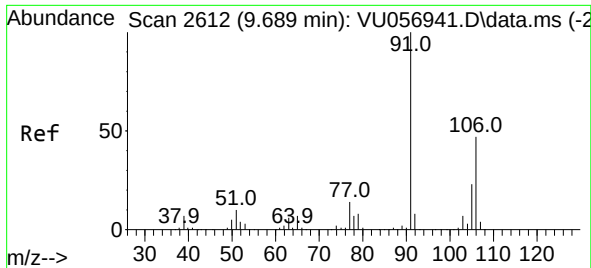
Tgt Ion:112 Resp: 7095524
Ion Ratio Lower Upper
112 100
114 32.0 21.9 40.7
77 64.8 51.6 77.4



#52
Ethylbenzene
Concen: 0.133 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. 0.000 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

Tgt Ion: 91 Resp: 13429
Ion Ratio Lower Upper
91 100
106 30.2 20.6 38.4

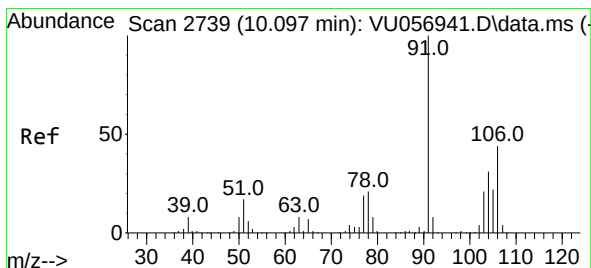
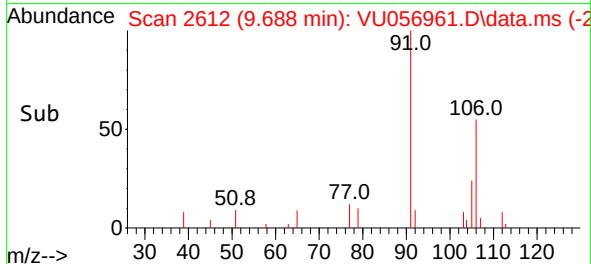
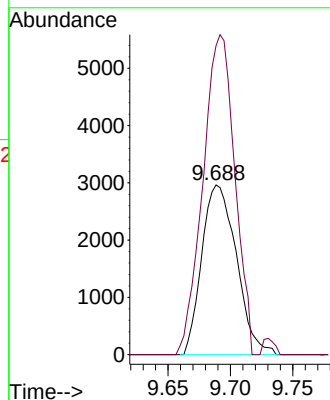
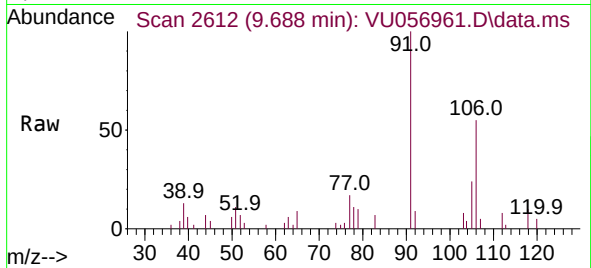




#53
m,p-Xylene
Concen: 0.152 ug/L
RT: 9.688 min Scan# 2612
Delta R.T. -0.003 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

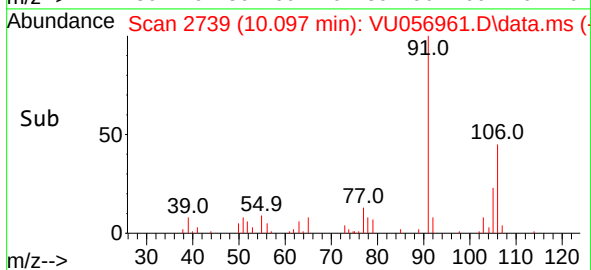
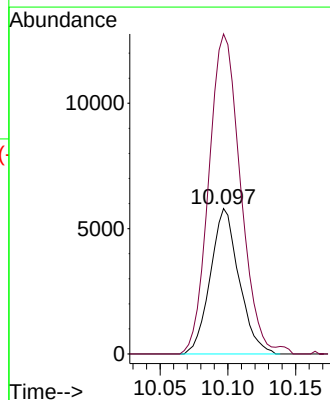
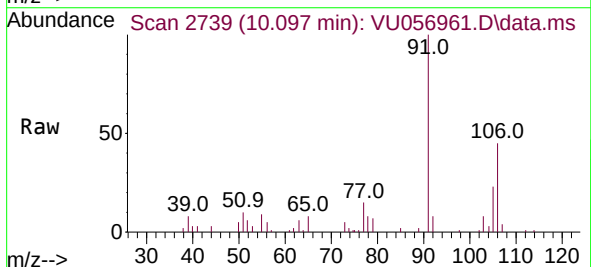
Instrument :
MSVOA_U
ClientSampleId :

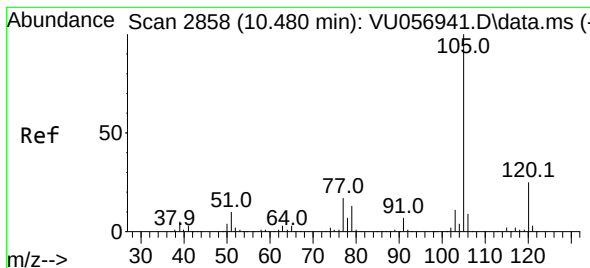
Tgt Ion:106 Resp: 5726
Ion Ratio Lower Upper
106 100
91 182.1 154.0 286.0



#54
o-Xylene
Concen: 0.238 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. 0.000 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

Tgt Ion:106 Resp: 8541
Ion Ratio Lower Upper
106 100
91 220.1 160.2 297.6





#60

Isopropylbenzene

Concen: 1.444 ug/L

RT: 10.994 min Scan# 3018

Delta R.T. 0.514 min

Lab File: VU056961.D

Acq: 17 Dec 2023 07:07

Instrument :

MSVOA_U

ClientSampleId :

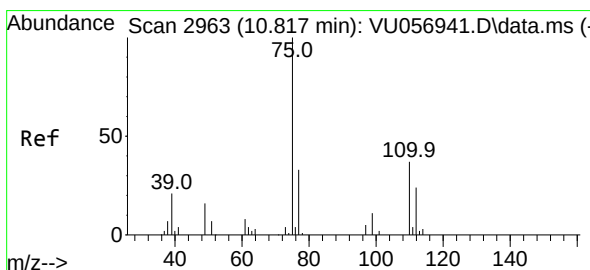
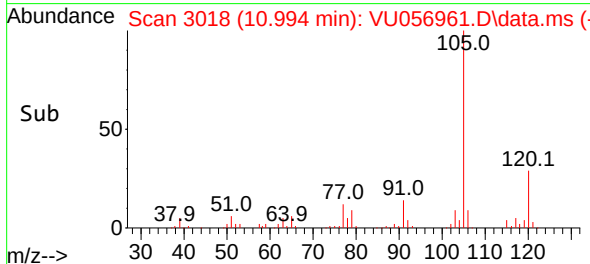
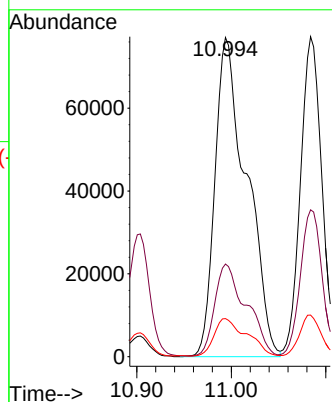
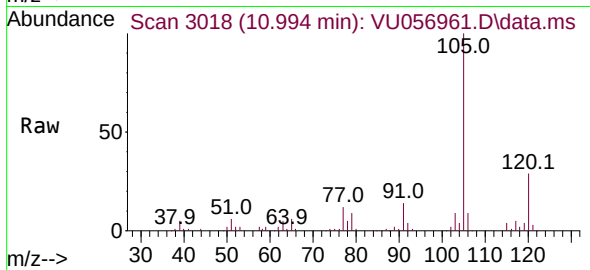
Tgt Ion:105 Resp: 179277

Ion Ratio Lower Upper

105 100

120 29.2 20.1 30.1

77 0.0 13.2 19.8#



#61

1,2,3-Trichloropropane

Concen: 20.513 ug/L

RT: 11.740 min Scan# 3250

Delta R.T. 0.923 min

Lab File: VU056961.D

Acq: 17 Dec 2023 07:07

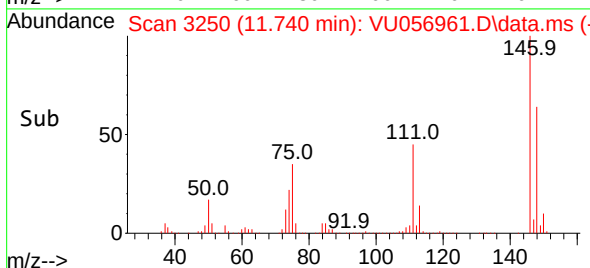
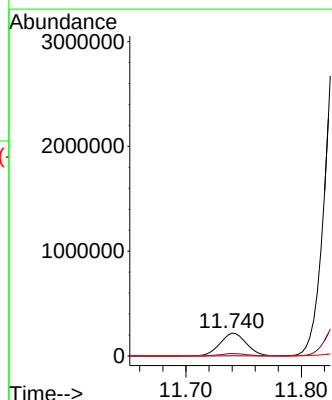
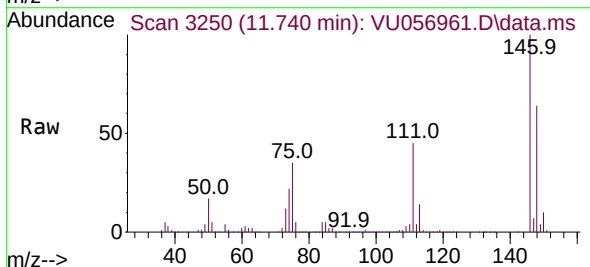
Tgt Ion: 75 Resp: 346226

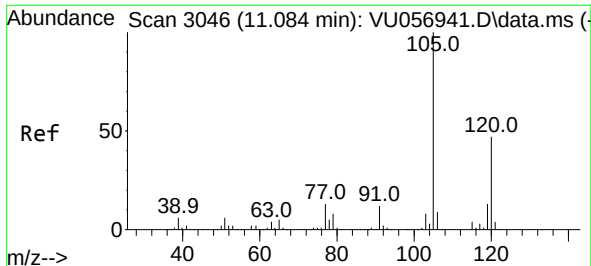
Ion Ratio Lower Upper

75 100

110 0.0 28.4 42.6#

77 0.0 26.3 39.5#





#62

1,3,5-Trimethylbenzene

Concen: 1.194 ug/L

RT: 11.084 min Scan# 3046

Delta R.T. 0.000 min

Lab File: VU056961.D

Acq: 17 Dec 2023 07:07

Instrument :

MSVOA_U

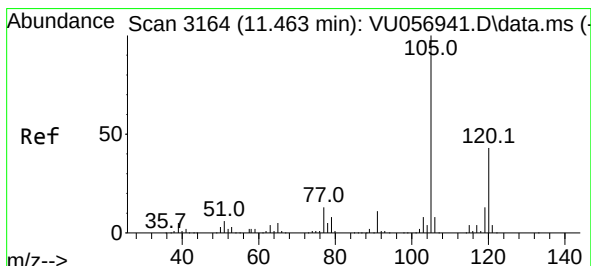
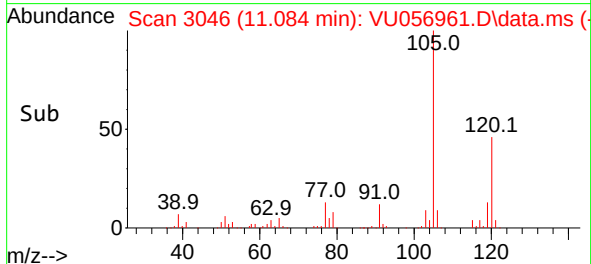
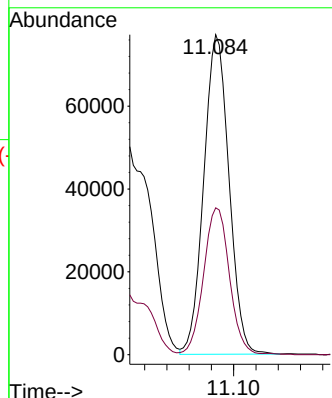
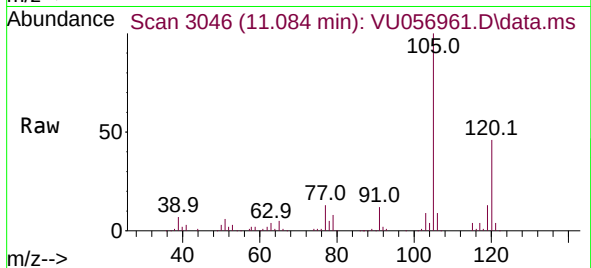
ClientSampleId :

Tgt Ion:105 Resp: 121152

Ion Ratio Lower Upper

105 100

120 47.4 36.8 55.2



#63

1,2,4-Trimethylbenzene

Concen: 8.570 ug/L

RT: 11.463 min Scan# 3164

Delta R.T. 0.000 min

Lab File: VU056961.D

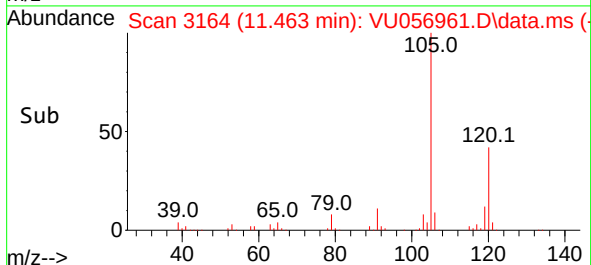
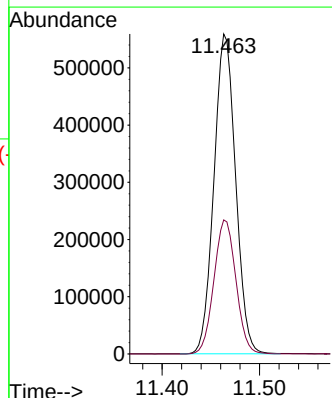
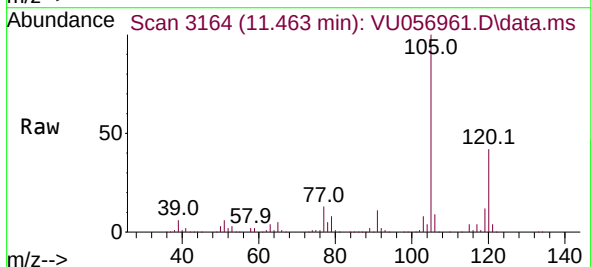
Acq: 17 Dec 2023 07:07

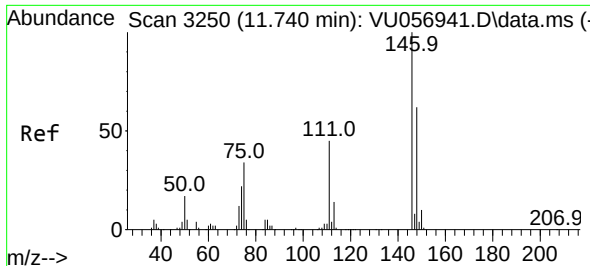
Tgt Ion:105 Resp: 863982

Ion Ratio Lower Upper

105 100

120 42.5 34.2 51.4

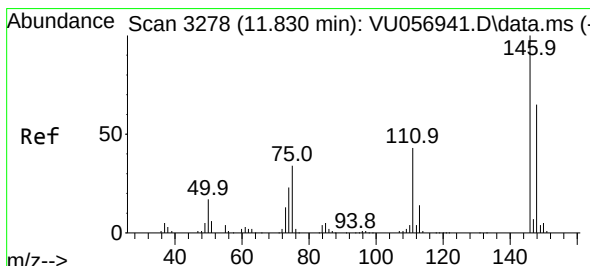
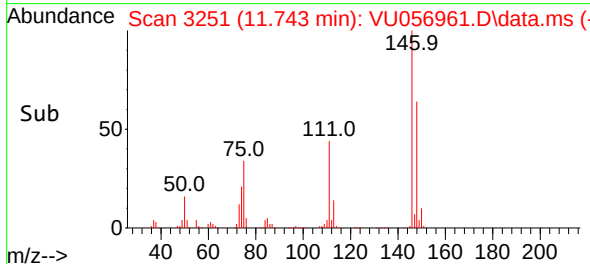
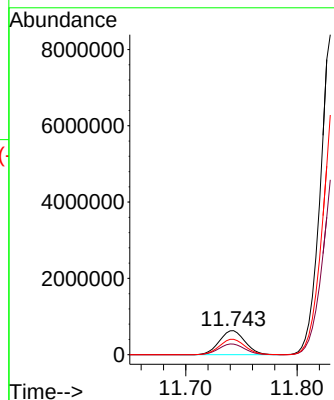
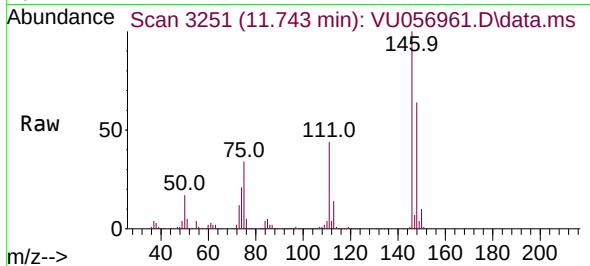




#64
1,3-Dichlorobenzene
Concen: 17.256 ug/L
RT: 11.743 min Scan# 3250
Delta R.T. 0.000 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

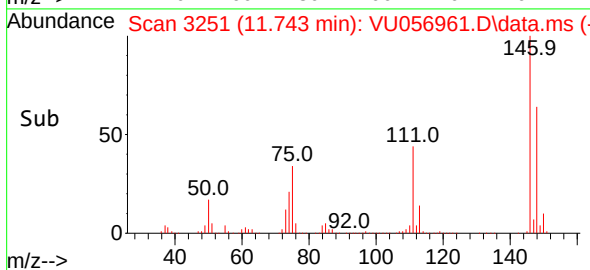
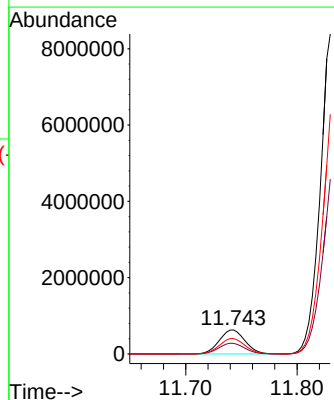
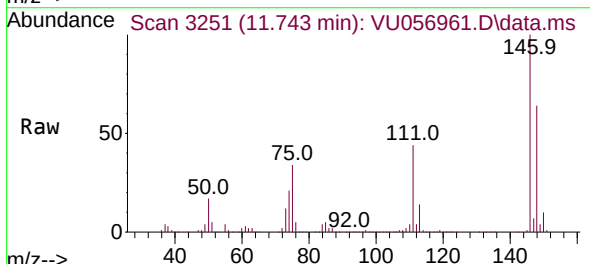
Instrument :
MSVOA_U
ClientSampleId :

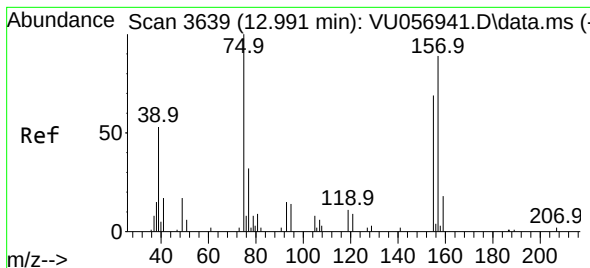
Tgt Ion:146 Resp: 1013780
Ion Ratio Lower Upper
146 100
111 44.2 31.7 58.9
148 64.3 44.3 82.3



#65
1,4-Dichlorobenzene
Concen: 17.525 ug/L
RT: 11.743 min Scan# 3251
Delta R.T. -0.090 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

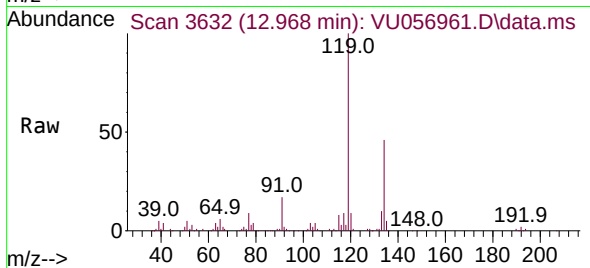
Tgt Ion:146 Resp: 1013780
Ion Ratio Lower Upper
146 100
111 44.2 31.2 58.0
148 64.3 45.6 84.8



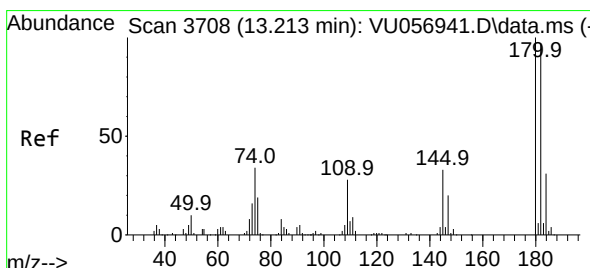
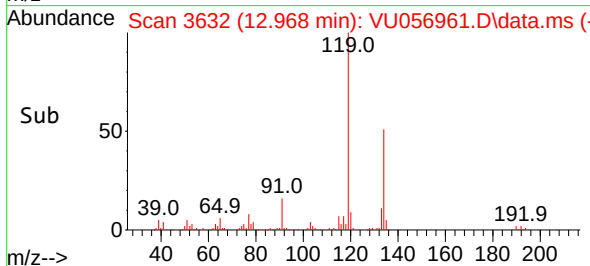
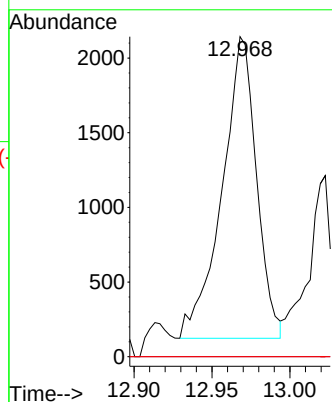


#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.922 ug/L
 RT: 12.968 min Scan# 30
 Delta R.T. -0.026 min
 Lab File: VU056961.D
 Acq: 17 Dec 2023 07:07

Instrument :
 MSVOA_U
 ClientSampleId :

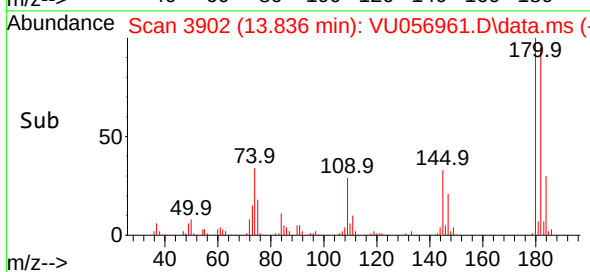
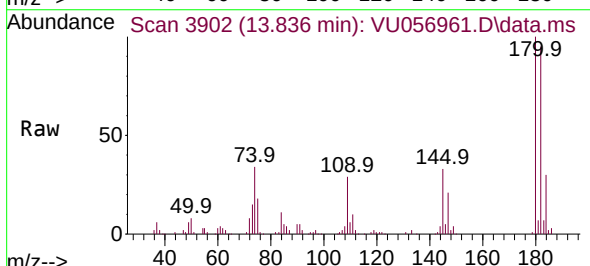
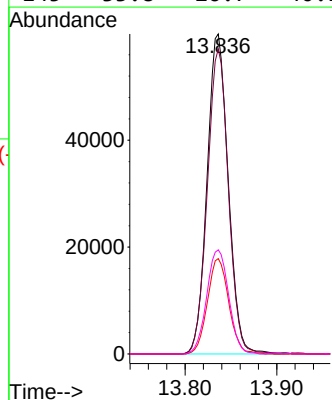


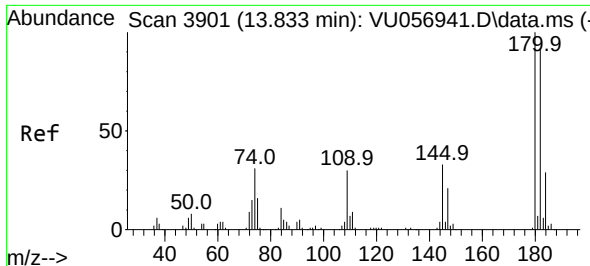
Tgt Ion: 75 Resp: 3108
 Ion Ratio Lower Upper
 75 100
 155 0.0 55.4 83.2#
 157 0.0 77.3 115.9#



#69
 1,3,5-Trichlorobenzene
 Concen: 2.164 ug/L
 RT: 13.836 min Scan# 3902
 Delta R.T. 0.621 min
 Lab File: VU056961.D
 Acq: 17 Dec 2023 07:07

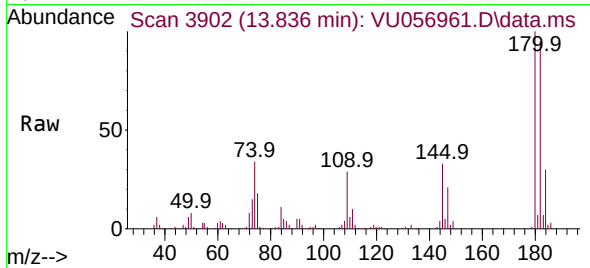
Tgt Ion:180 Resp: 96084
 Ion Ratio Lower Upper
 180 100
 182 94.7 76.2 114.4
 184 30.1 24.6 37.0
 145 33.8 26.7 40.1



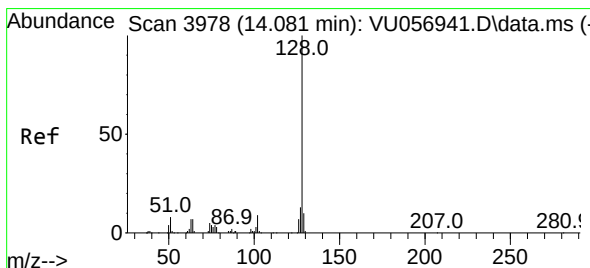
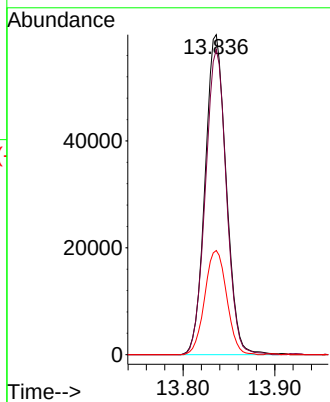
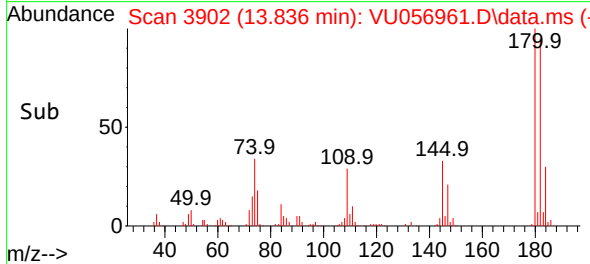


#70
1,2,4-trichlorobenzene
Concen: 2.733 ug/L
RT: 13.836 min Scan# 3901
Delta R.T. 0.000 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07

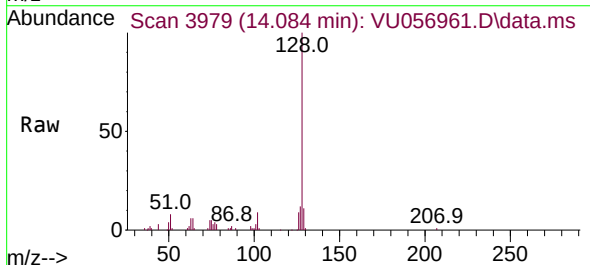
Instrument :
MSVOA_U
ClientSampleId :



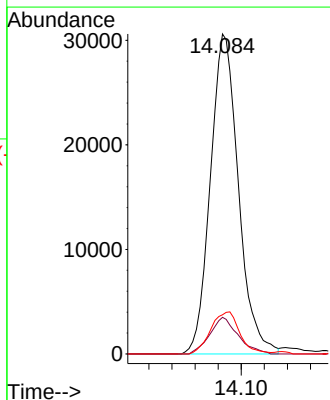
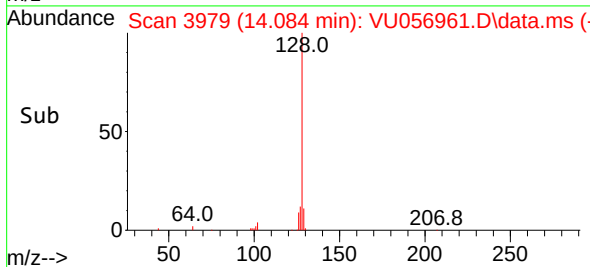
Tgt Ion:180 Resp: 96084
Ion Ratio Lower Upper
180 100
182 94.7 74.3 111.5
145 33.8 26.7 40.1

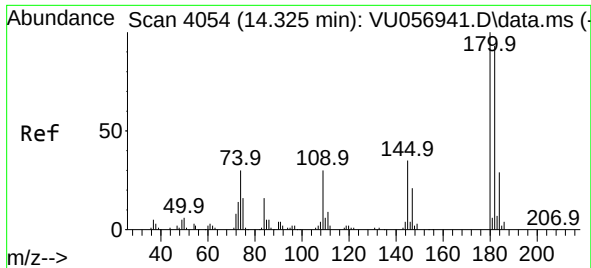


#71
Naphthalene
Concen: 1.002 ug/L
RT: 14.084 min Scan# 3979
Delta R.T. 0.000 min
Lab File: VU056961.D
Acq: 17 Dec 2023 07:07



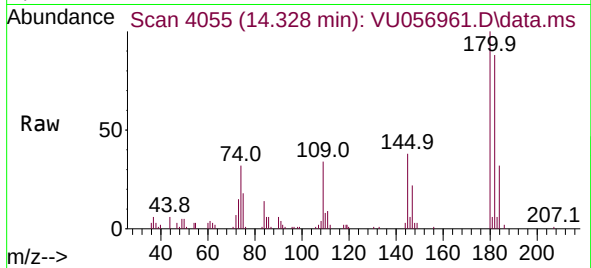
Tgt Ion:128 Resp: 51558
Ion Ratio Lower Upper
128 100
129 11.6 8.6 12.8
127 13.6 10.2 15.2





#72
 1,2,3-Trichlorobenzene
 Concen: 0.725 ug/L
 RT: 14.328 min Scan# 4054
 Delta R.T. 0.003 min
 Lab File: VU056961.D
 Acq: 17 Dec 2023 07:07

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	180	Resp:	21650
Ion Ratio	Lower	Upper	
180	100		
182	93.3	75.0	112.6
145	38.7	28.6	42.8

