

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU091423\
 Data File : VU055304.D
 Acq On : 14 Sep 2023 12:53
 Operator : MD/SY
 Sample : 04380-18
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Sep 15 03:01:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR090123WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Sep 15 02:53:52 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.248	114	206015	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	214841	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.811	152	108865	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	31127	3.224	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	64.400%
7) Chloroethane-d5	1.911	69	40215	3.598	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	72.000%
11) 1,1-Dichloroethene-d2	2.563	65	16313	2.965	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.400%#
20) 2-Butanone-d5	4.640	46	140218	50.043	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.080%
24) Chloroform-d	5.062	84	106144	4.143	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.800%
26) 1,2-Dichloroethane-d4	5.702	65	53317	4.159	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.200%
32) Benzene-d6	5.727	84	190962	3.601	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	72.000%
36) 1,2-Dichloropropane-d6	6.692	67	65138	3.862	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	77.200%
41) Toluene-d8	7.894	98	162828	3.333	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	66.600%#
43) trans-1,3-Dichloroprop...	8.181	79	14707	3.166	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	63.400%
46) 2-Hexanone-d5	8.634	63	86959	46.113	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.220%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	53185	4.484	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.600%
66) 1,2-Dichlorobenzene-d4	12.190	152	65767	4.139	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	2217	0.182	ug/L	98
5) Vinyl chloride	1.602	62	495416	38.532	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.576	101	26307	2.418	ug/L	95
12) 1,1-Dichloroethene	2.576	96	1036074	108.781	ug/L #	66
17) Methyl tert-butyl Ether	3.367	73	15553	0.623	ug/L #	89
18) trans-1,2-Dichloroethene	3.351	96	116884	12.096	ug/L	88
19) 1,1-Dichloroethane	3.866	63	557843	26.712	ug/L	99
25) Chloroform	5.084	83	65546	3.014	ug/L	96
27) 1,2-Dichloroethane	5.798	62	12435	0.937	ug/L #	95
30) Cyclohexane	5.390	56	7898	0.478	ug/L	98
33) Benzene	5.772	78	44969	0.983	ug/L	100
35) Methylcyclohexane	6.560	83	1240552	69.577	ug/L #	1
37) 1,2-Dichloropropane	6.557	63	331703	26.645	ug/L #	89
45) 1,1,2-Trichloroethane	8.396	97	80541	9.606	ug/L	95
47) Tetrachloroethene	8.550	164	668929	76.163	ug/L	98
48) 2-Hexanone	8.682	43	19394	3.487	ug/L #	76
49) Dibromochloromethane	8.550	129	667339	72.909	ug/L #	9
51) Chlorobenzene	9.444	112	360738	11.174	ug/L	98
61) 1,2,3-Trichloropropane	11.743	75	27497	3.806	ug/L #	50

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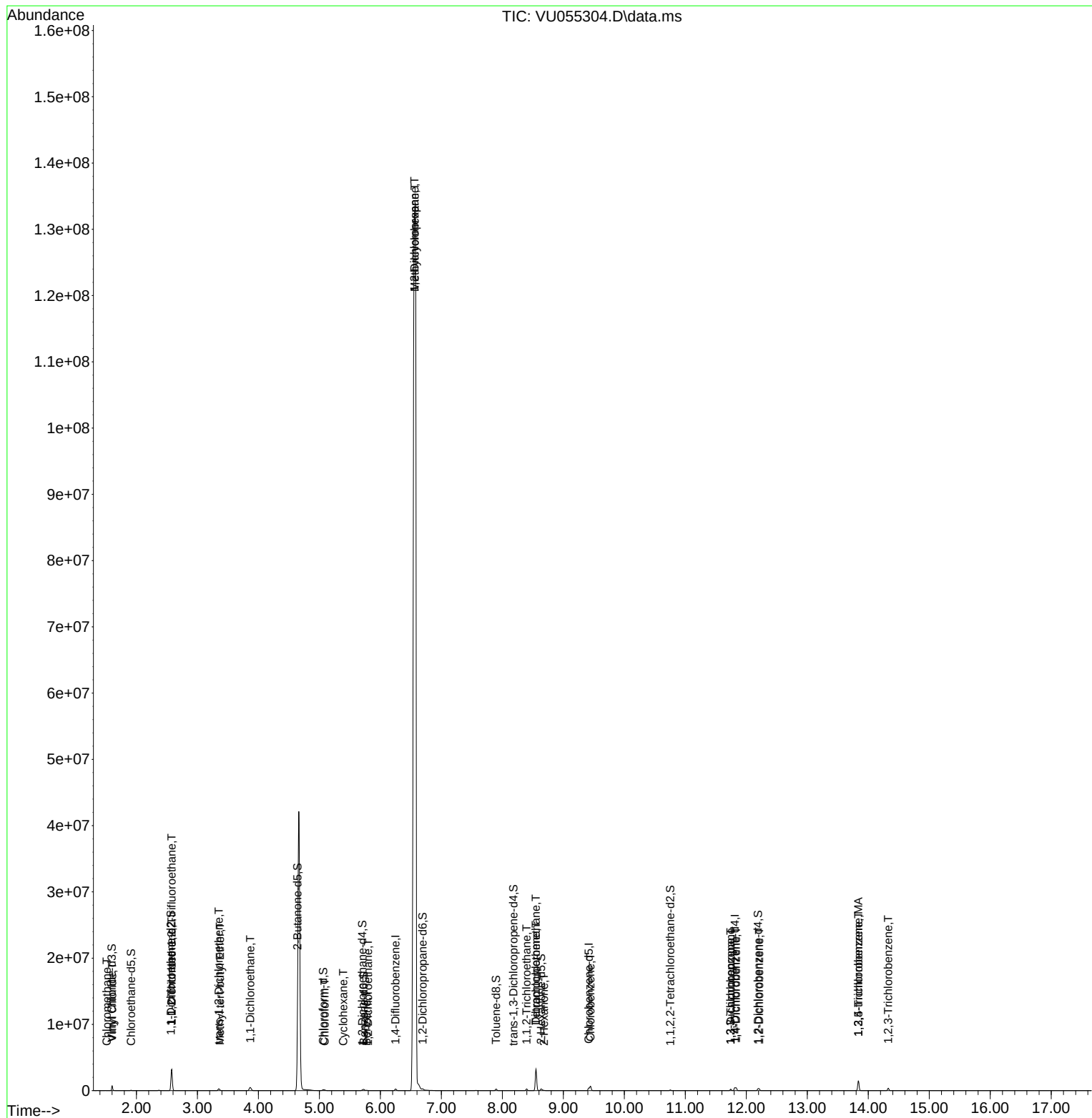
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,3-Dichlorobenzene	11.743	146	87872	3.606	ug/L	98
65) 1,4-Dichlorobenzene	11.833	146	157808	6.497	ug/L	97
67) 1,2-Dichlorobenzene	12.209	146	94934	4.155	ug/L	98
69) 1,3,5-Trichlorobenzene	13.836	180	426432	23.155	ug/L	99
70) 1,2,4-trichlorobenzene	13.836	180	426432	24.693	ug/L	97
72) 1,2,3-Trichlorobenzene	14.325	180	107316	7.160	ug/L	98

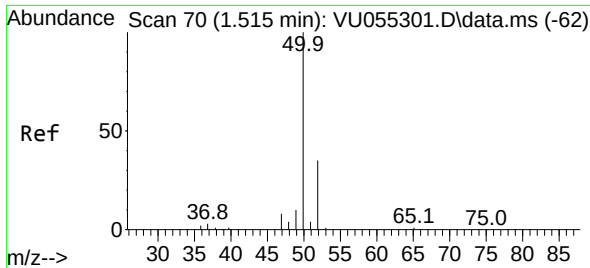
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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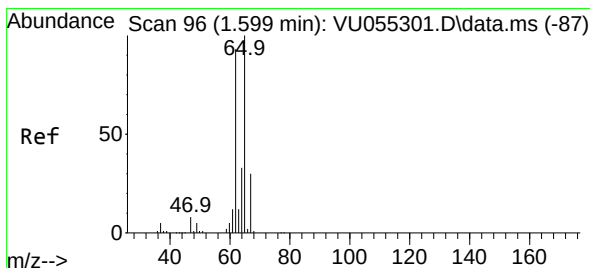
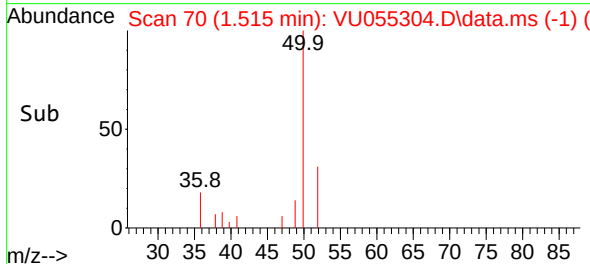
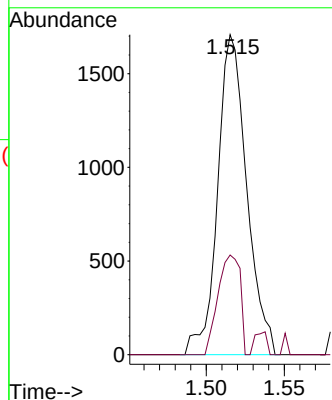
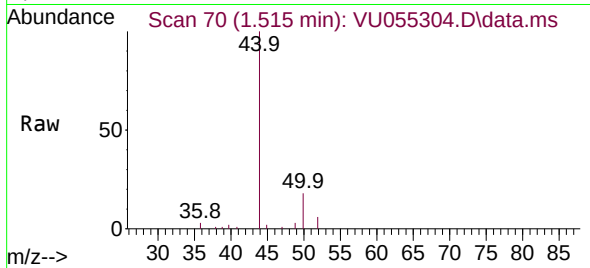




#3
Chloromethane
Concen: 0.182 ug/L
RT: 1.515 min Scan# 70
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

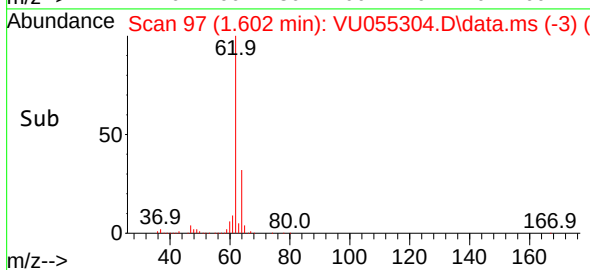
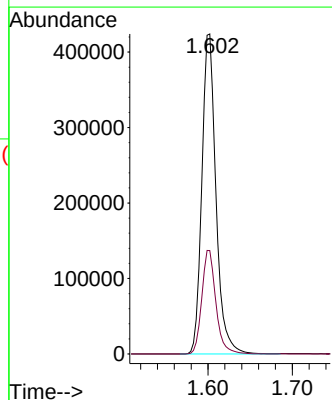
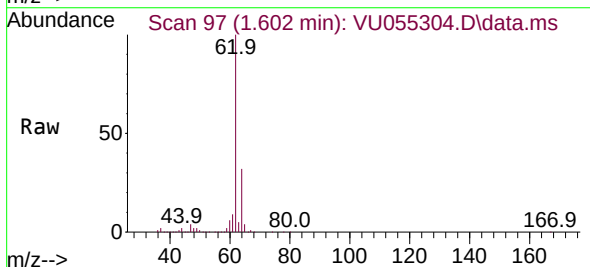
Instrument :
MSVOA_U
ClientSampleId :

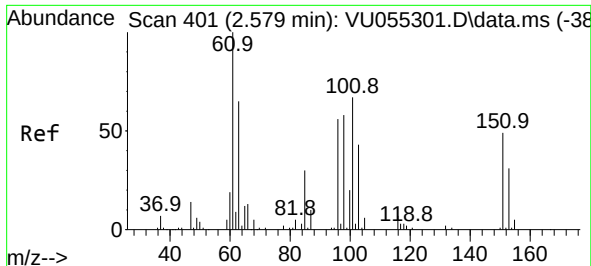
Tgt Ion: 50 Resp: 2217
Ion Ratio Lower Upper
50 100
52 31.1 22.5 41.7



#5
Vinyl chloride
Concen: 38.532 ug/L
RT: 1.602 min Scan# 97
Delta R.T. 0.003 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Tgt Ion: 62 Resp: 495416
Ion Ratio Lower Upper
62 100
64 32.3 24.2 45.0

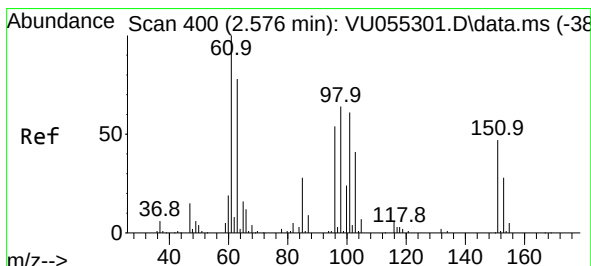
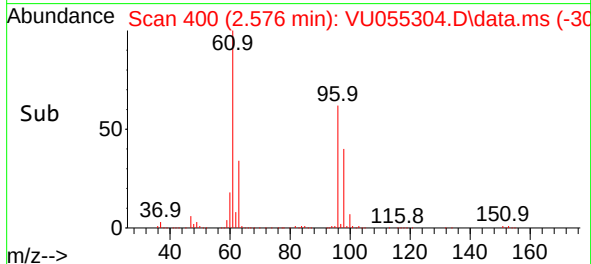
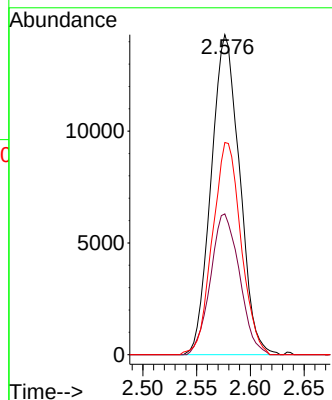
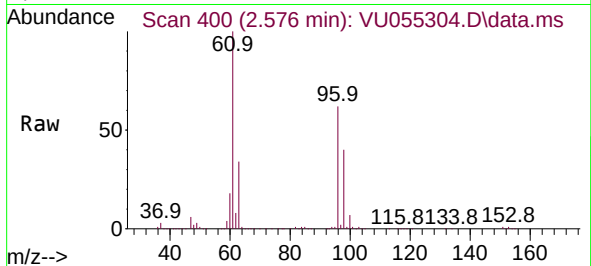




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 2.418 ug/L
 RT: 2.576 min Scan# 401
 Delta R.T. -0.003 min
 Lab File: VU055304.D
 Acq: 14 Sep 2023 12:53

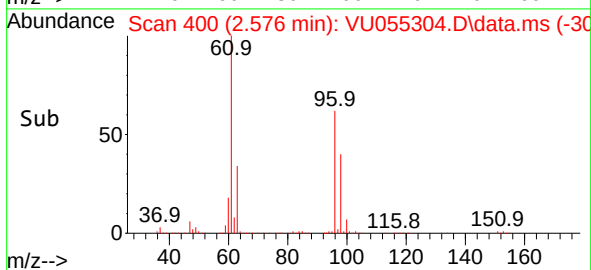
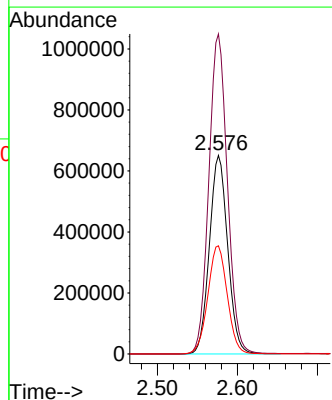
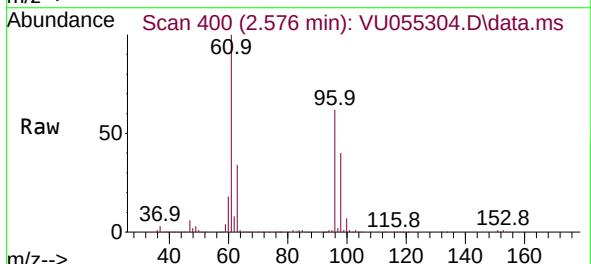
Instrument :
 MSVOA_U
 ClientSampleId :

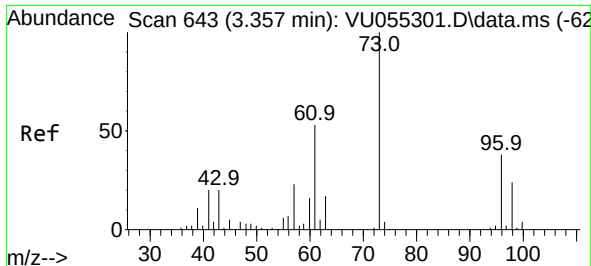
Tgt Ion:101 Resp: 26307
 Ion Ratio Lower Upper
 101 100
 85 44.8 37.3 55.9
 151 66.6 57.6 86.4



#12
 1,1-Dichloroethene
 Concen: 108.781 ug/L
 RT: 2.576 min Scan# 400
 Delta R.T. 0.000 min
 Lab File: VU055304.D
 Acq: 14 Sep 2023 12:53

Tgt Ion: 96 Resp: 1036074
 Ion Ratio Lower Upper
 96 100
 61 161.1 120.8 224.4
 63 54.5 94.5 175.5#

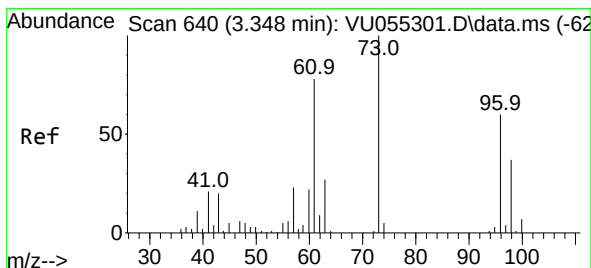
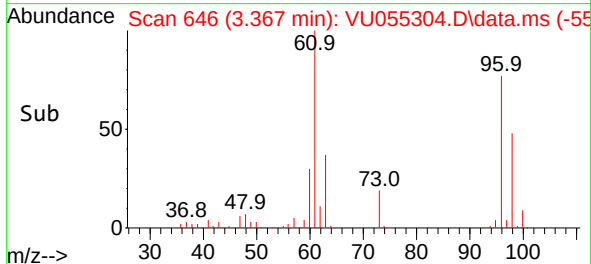
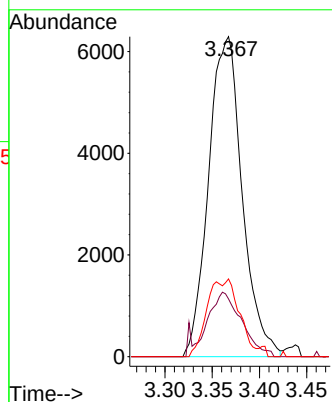
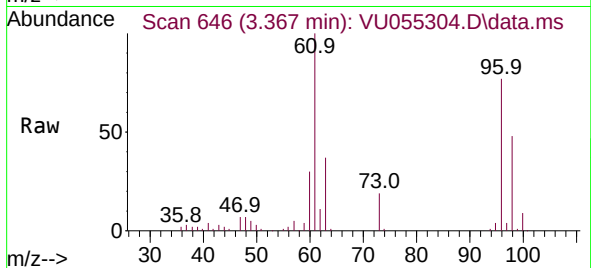




#17
Methyl tert-butyl Ether
Concen: 0.623 ug/L
RT: 3.367 min Scan# 641
Delta R.T. 0.010 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

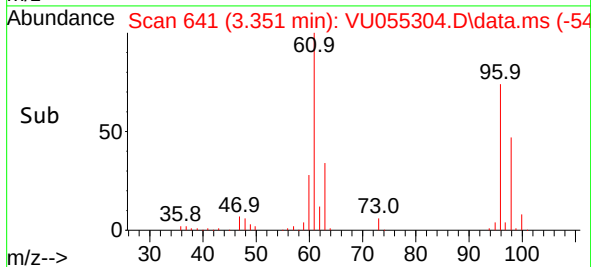
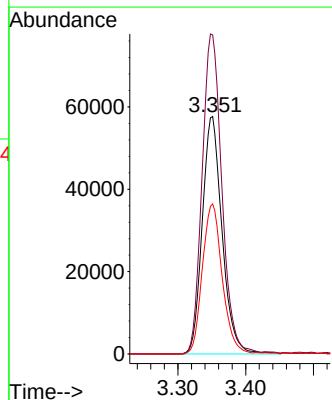
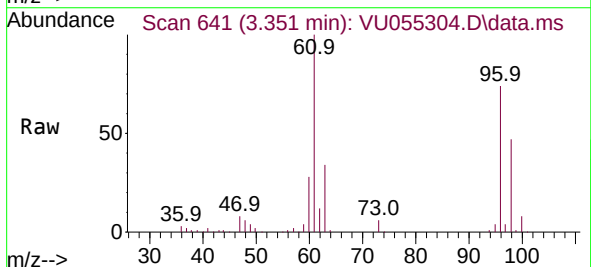
Instrument :
MSVOA_U
ClientSampleId :

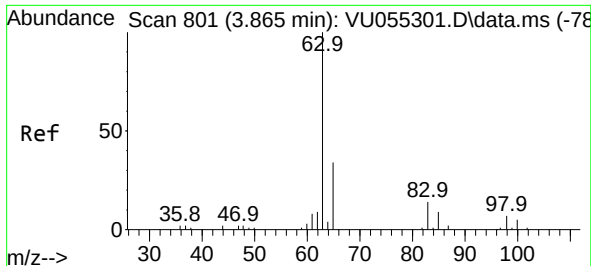
Tgt Ion: 73 Resp: 15553
Ion Ratio Lower Upper
73 100
43 19.7 16.2 24.2
57 12.0 17.4 26.2#



#18
trans-1,2-Dichloroethene
Concen: 12.096 ug/L
RT: 3.351 min Scan# 641
Delta R.T. 0.003 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Tgt Ion: 96 Resp: 116884
Ion Ratio Lower Upper
96 100
61 134.4 108.1 200.9
98 63.2 45.4 84.4

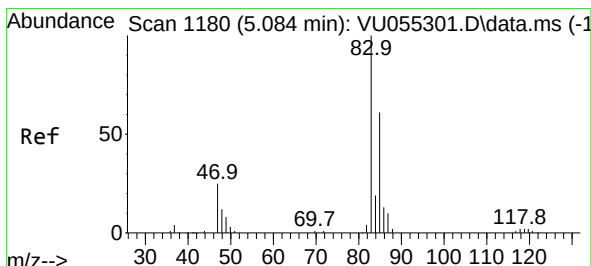
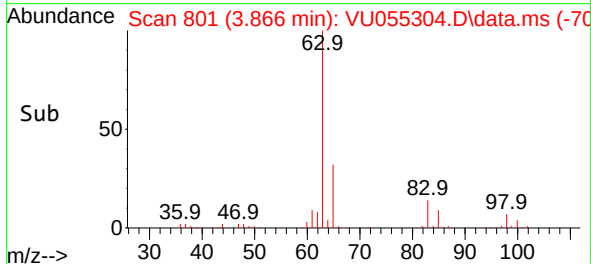
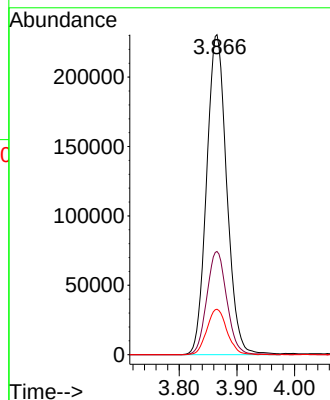
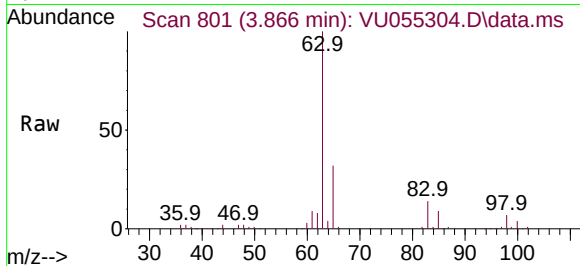




#19
1,1-Dichloroethane
Concen: 26.712 ug/L
RT: 3.866 min Scan# 801
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

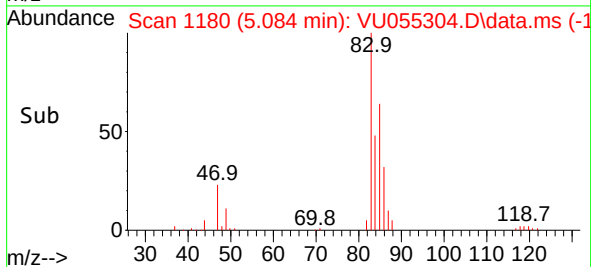
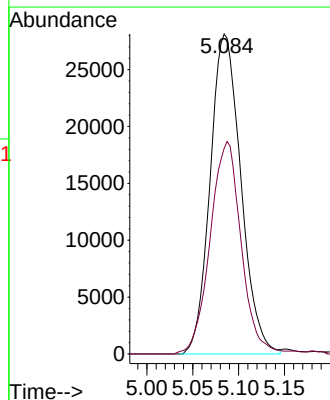
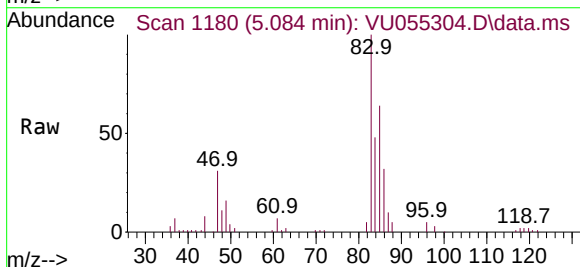
Instrument :
MSVOA_U
ClientSampleId :

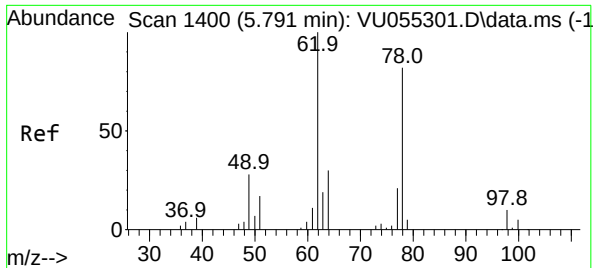
Tgt Ion: 63 Resp: 557843
Ion Ratio Lower Upper
63 100
65 32.3 22.2 41.2
83 14.2 10.6 19.8



#25
Chloroform
Concen: 3.014 ug/L
RT: 5.084 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Tgt Ion: 83 Resp: 65546
Ion Ratio Lower Upper
83 100
85 64.3 47.2 87.6

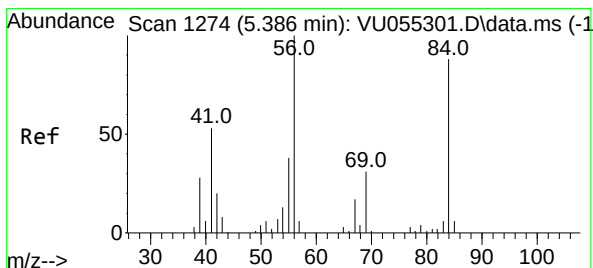
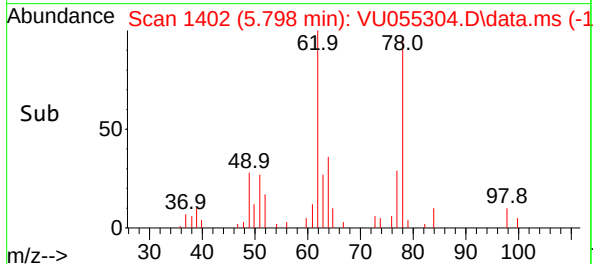
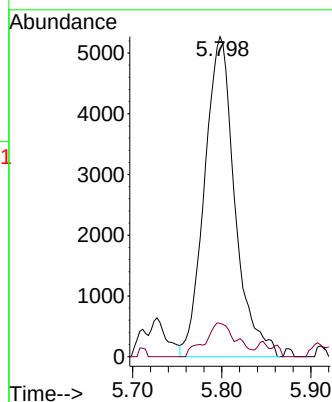
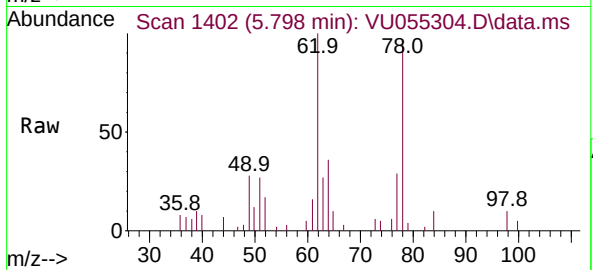




#27
1,2-Dichloroethane
Concen: 0.937 ug/L
RT: 5.798 min Scan# 1400
Delta R.T. 0.007 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

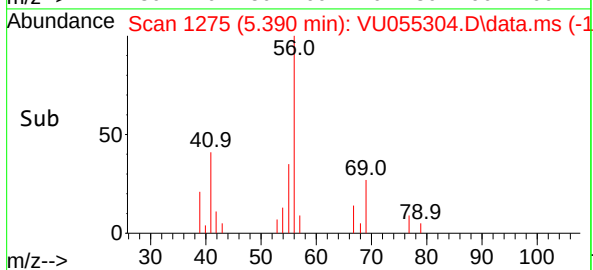
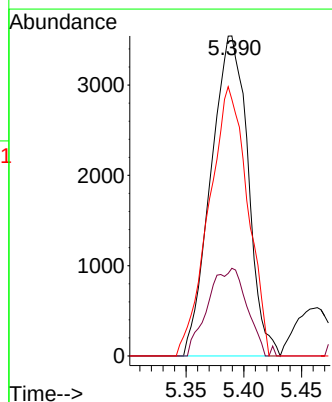
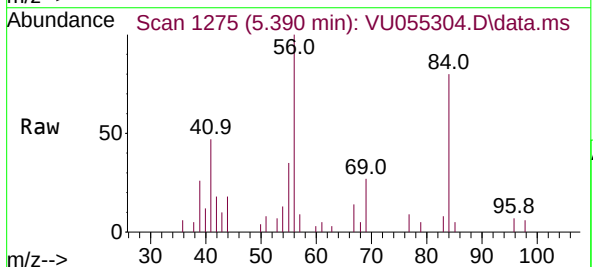
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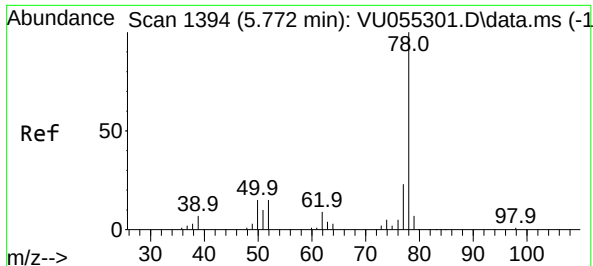
Tgt Ion: 62 Resp: 12435
Ion Ratio Lower Upper
62 100
98 10.4 6.9 10.3#



#30
Cyclohexane
Concen: 0.478 ug/L
RT: 5.390 min Scan# 1275
Delta R.T. 0.003 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Tgt Ion: 56 Resp: 7898
Ion Ratio Lower Upper
56 100
69 28.8 24.6 37.0
84 87.8 68.8 103.2

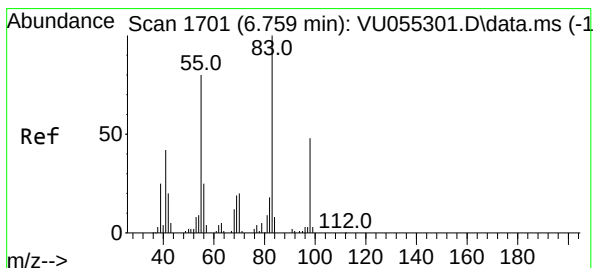
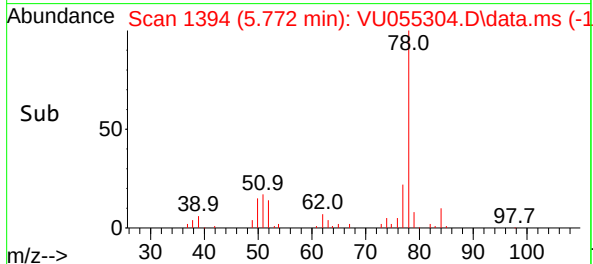
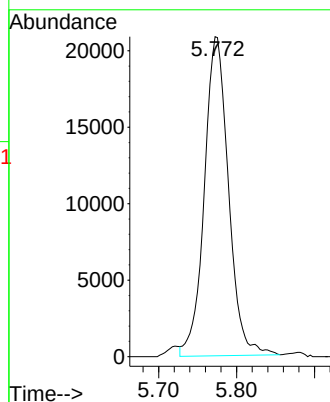
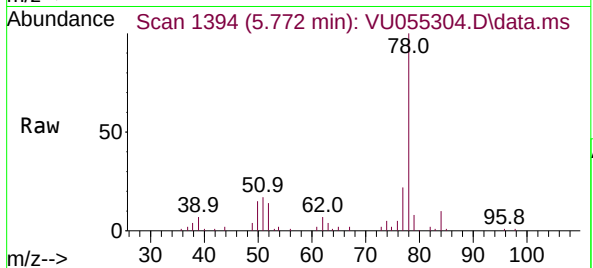




#33
Benzene
Concen: 0.983 ug/L
RT: 5.772 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

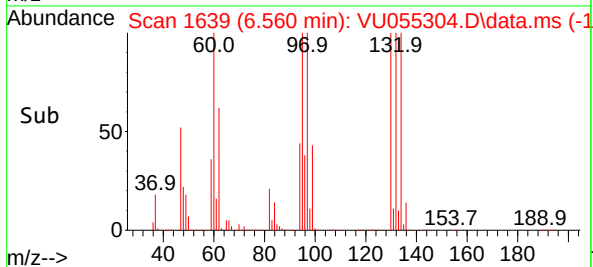
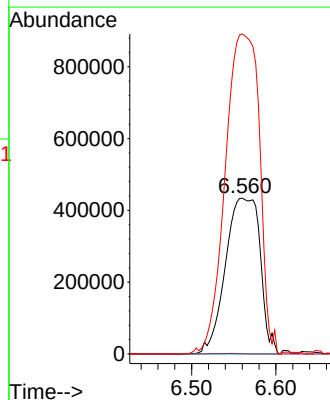
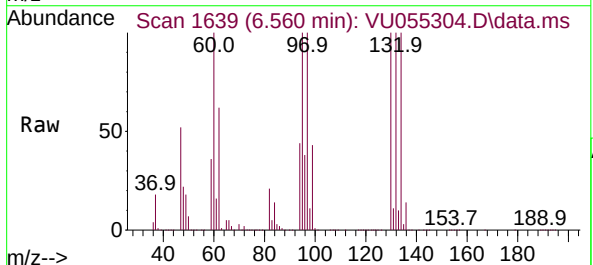
Instrument :
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ClientSampleId :

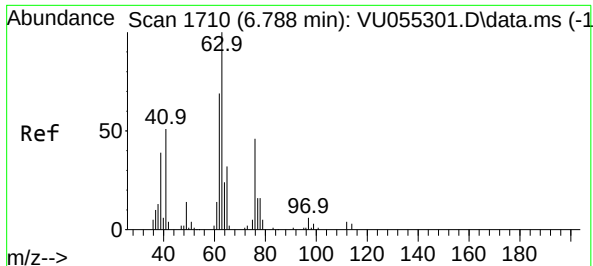
Tgt Ion: 78 Resp: 44969



#35
Methylcyclohexane
Concen: 69.577 ug/L
RT: 6.560 min Scan# 1639
Delta R.T. -0.199 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Tgt Ion: 83 Resp: 1240552
Ion Ratio Lower Upper
83 100
55 0.1 60.4 90.6#
98 202.4 35.3 52.9#

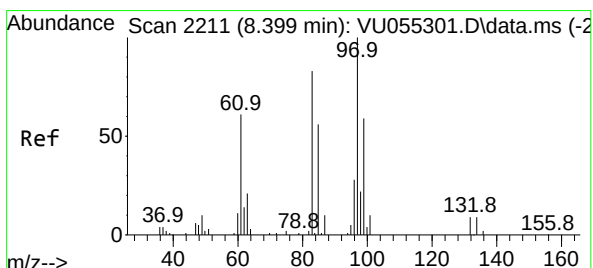
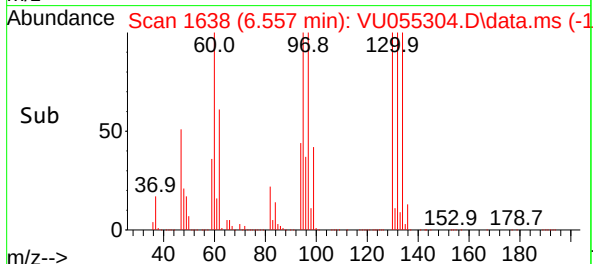
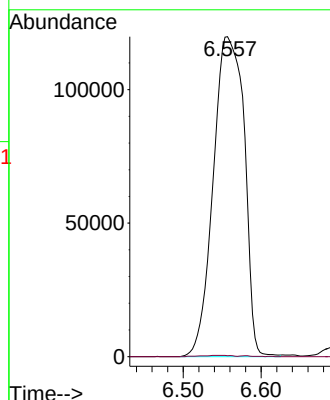
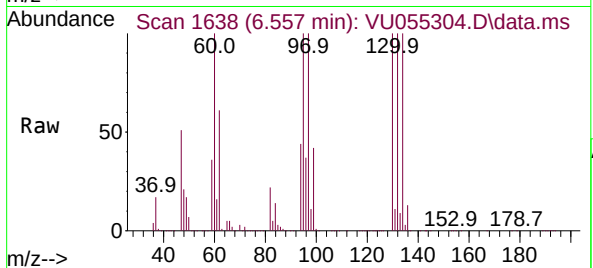




#37
1,2-Dichloropropane
Concen: 26.645 ug/L
RT: 6.557 min Scan# 1
Delta R.T. -0.231 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

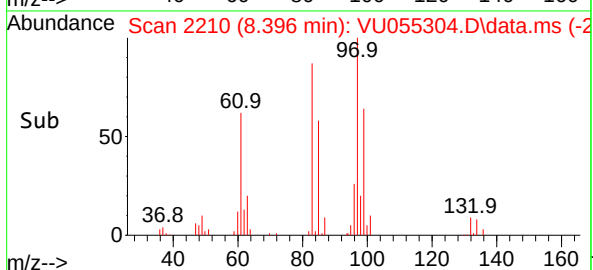
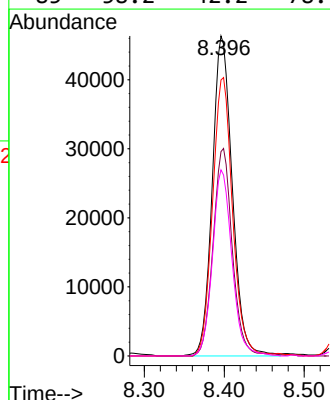
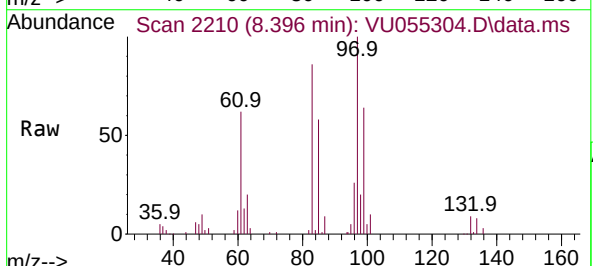
Instrument :
MSVOA_U
ClientSampleId :

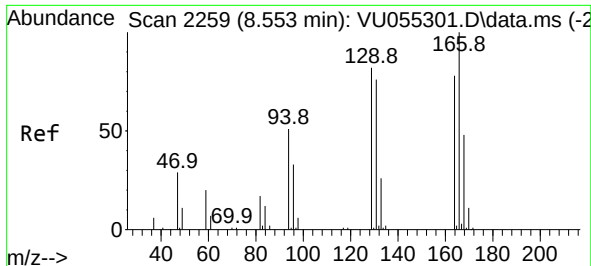
Tgt Ion: 63 Resp: 331703
Ion Ratio Lower Upper
63 100
112 0.4 3.2 4.8#



#45
1,1,2-Trichloroethane
Concen: 9.606 ug/L
RT: 8.396 min Scan# 2210
Delta R.T. -0.003 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

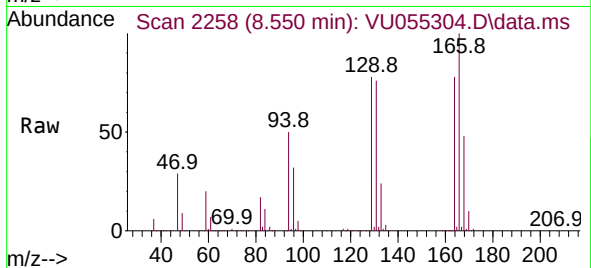
Tgt Ion: 97 Resp: 80541
Ion Ratio Lower Upper
97 100
99 63.9 44.9 83.5
83 86.3 66.9 124.3
85 58.2 42.2 78.4



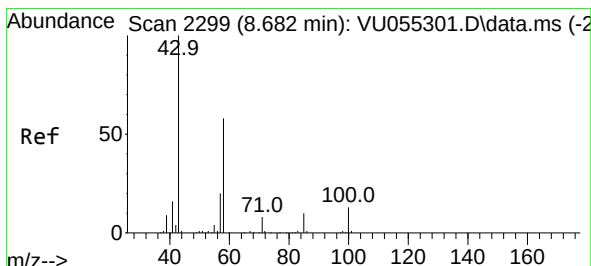
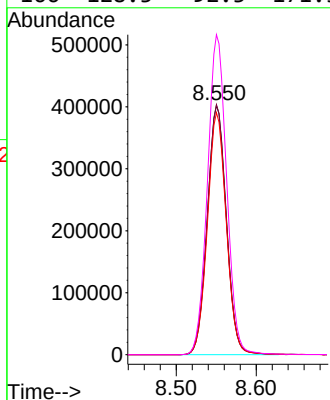
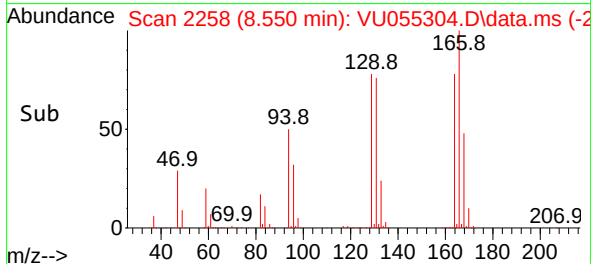


#47
Tetrachloroethene
Concen: 76.163 ug/L
RT: 8.550 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Instrument :
MSVOA_U
ClientSampleId :

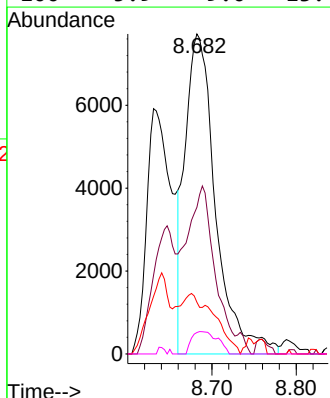
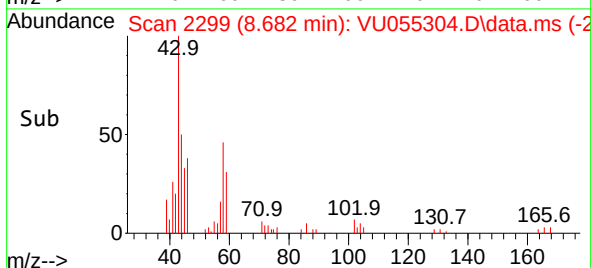
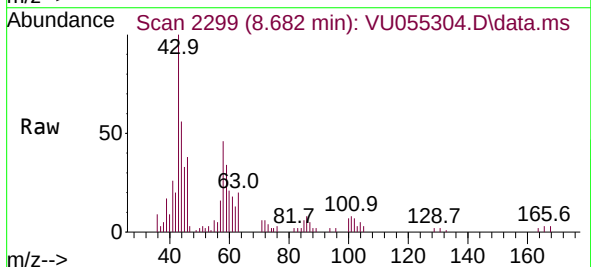


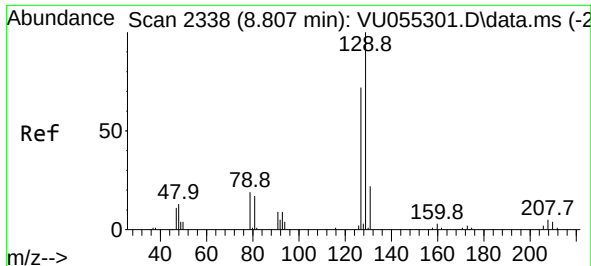
Tgt Ion:164 Resp: 668929
Ion Ratio Lower Upper
164 100
129 100.3 69.2 128.6
131 97.1 68.8 127.8
166 128.3 92.3 171.5



#48
2-Hexanone
Concen: 3.487 ug/L
RT: 8.682 min Scan# 2299
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Tgt Ion: 43 Resp: 19394
Ion Ratio Lower Upper
43 100
58 40.1 44.0 66.0#
57 2.7 16.2 24.2#
100 5.9 9.0 13.4#

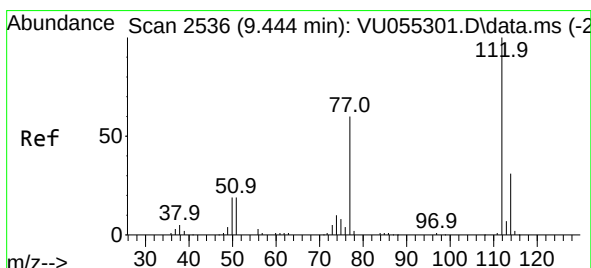
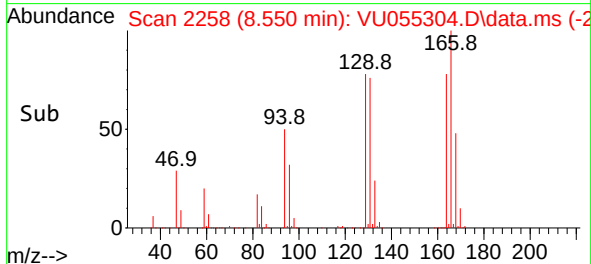
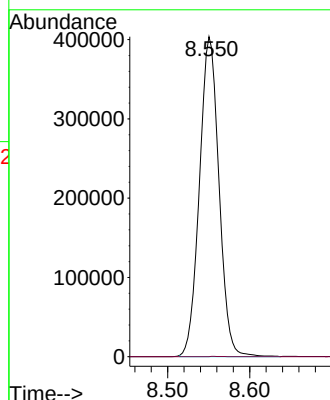
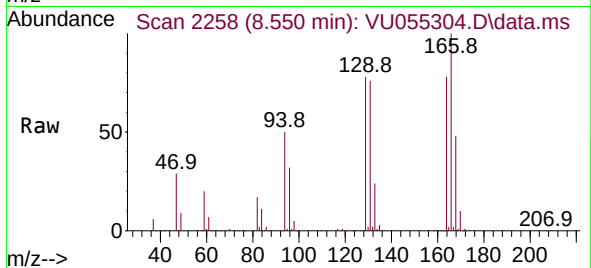




#49
Dibromochloromethane
Concen: 72.909 ug/L
RT: 8.550 min Scan# 21
Delta R.T. -0.257 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

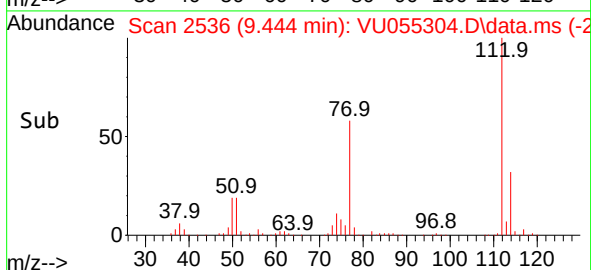
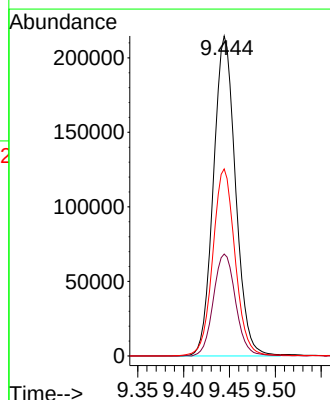
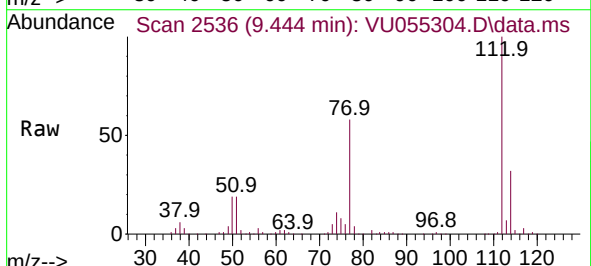
Instrument :
MSVOA_U
ClientSampleId :

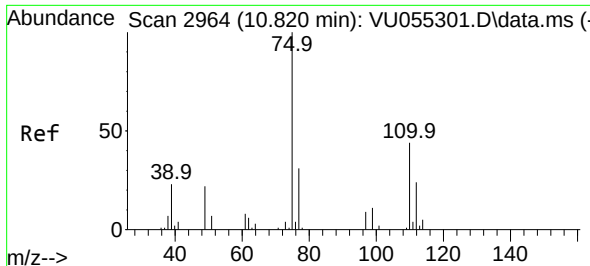
Tgt Ion:129 Resp: 667339
Ion Ratio Lower Upper
129 100
127 0.0 55.9 103.7#



#51
Chlorobenzene
Concen: 11.174 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Tgt Ion:112 Resp: 360738
Ion Ratio Lower Upper
112 100
114 31.8 21.7 40.3
77 58.4 48.6 72.8

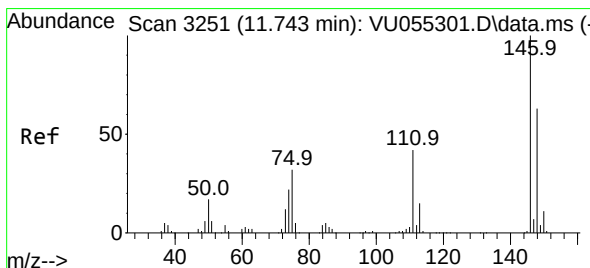
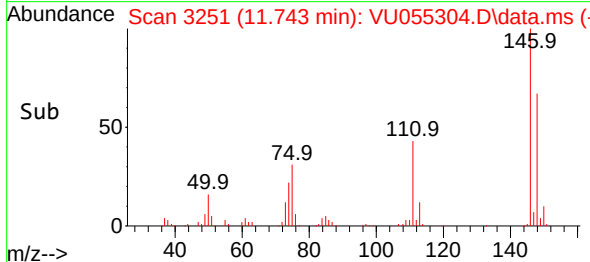
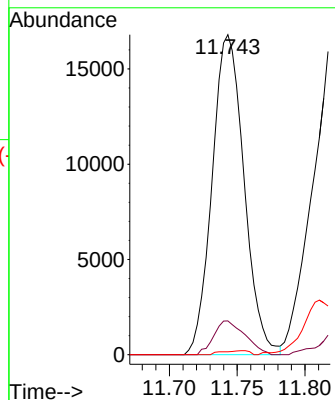
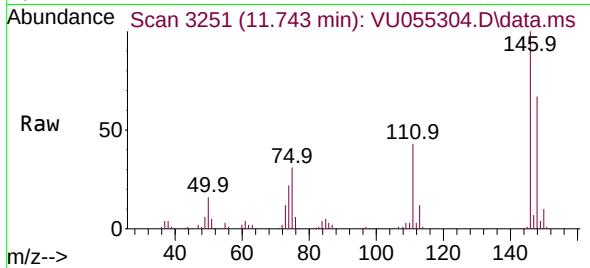




#61
 1,2,3-Trichloropropane
 Concen: 3.806 ug/L
 RT: 11.743 min Scan# 31
 Delta R.T. 0.923 min
 Lab File: VU055304.D
 Acq: 14 Sep 2023 12:53

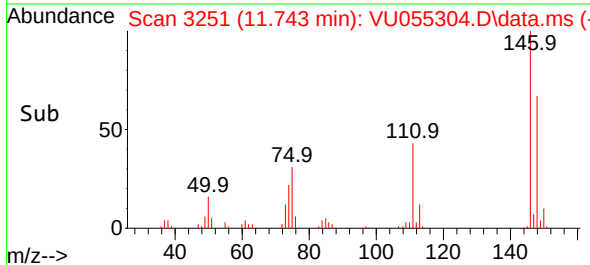
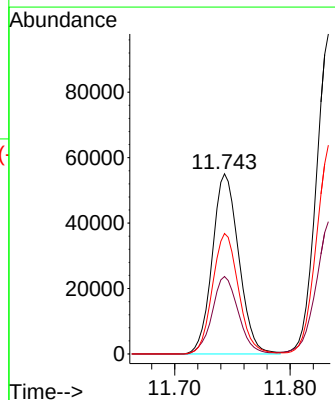
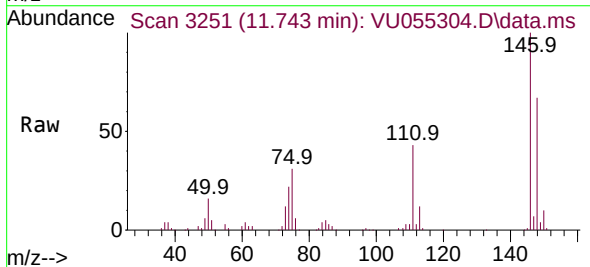
Instrument :
 MSVOA_U
 ClientSampleId :

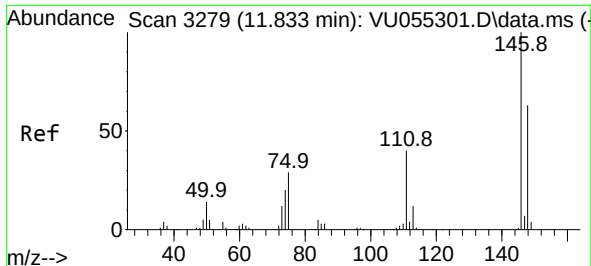
Tgt Ion: 75 Resp: 27497
 Ion Ratio Lower Upper
 75 100
 110 10.4 28.2 42.2#
 77 0.0 26.2 39.4#



#64
 1,3-Dichlorobenzene
 Concen: 3.606 ug/L
 RT: 11.743 min Scan# 3251
 Delta R.T. 0.000 min
 Lab File: VU055304.D
 Acq: 14 Sep 2023 12:53

Tgt Ion: 146 Resp: 87872
 Ion Ratio Lower Upper
 146 100
 111 43.0 30.0 55.6
 148 66.9 45.2 84.0

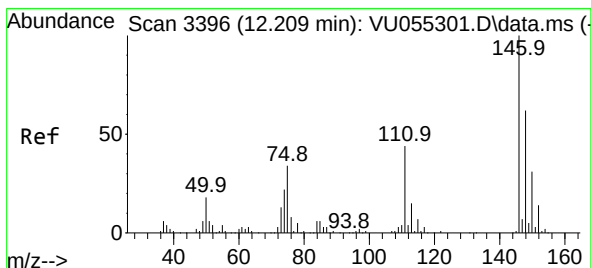
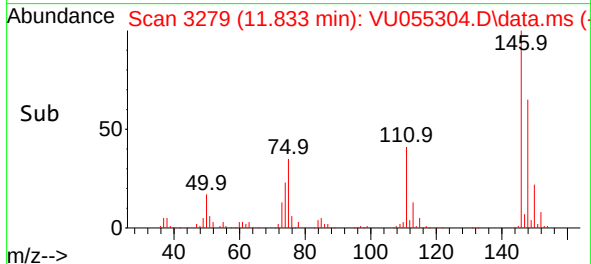
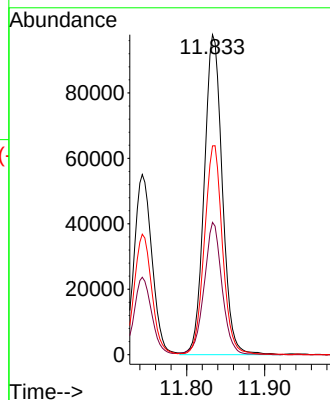
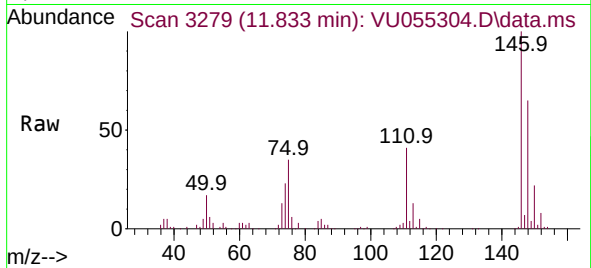




#65
1,4-Dichlorobenzene
Concen: 6.497 ug/L
RT: 11.833 min Scan# 3279
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

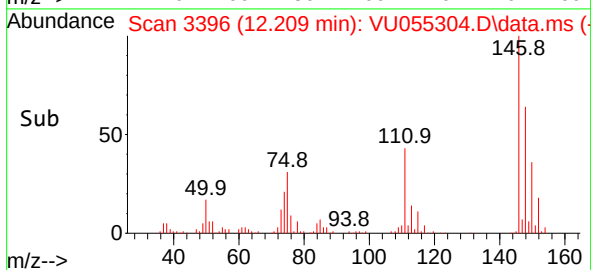
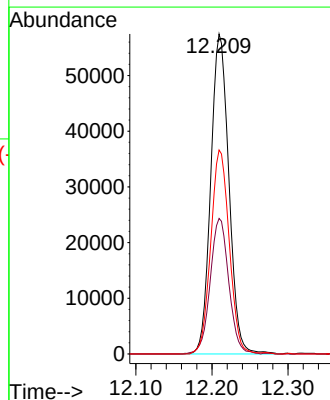
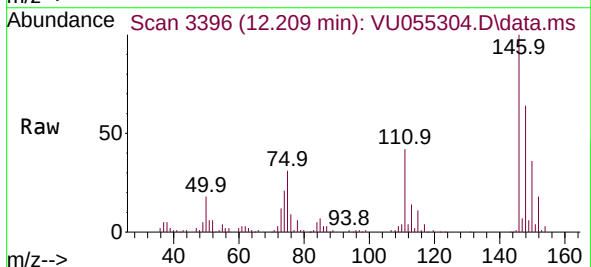
Instrument :
MSVOA_U
ClientSampleId :

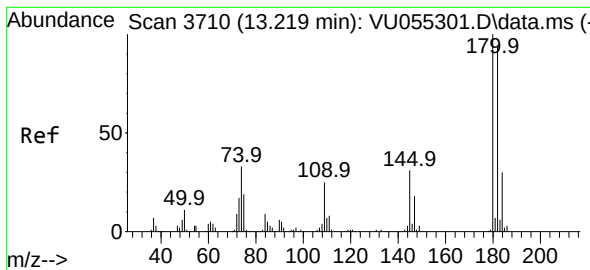
Tgt Ion:146 Resp: 157808
Ion Ratio Lower Upper
146 100
111 41.3 28.1 52.1
148 65.3 43.8 81.3



#67
1,2-Dichlorobenzene
Concen: 4.155 ug/L
RT: 12.209 min Scan# 3396
Delta R.T. 0.000 min
Lab File: VU055304.D
Acq: 14 Sep 2023 12:53

Tgt Ion:146 Resp: 94934
Ion Ratio Lower Upper
146 100
111 42.4 35.6 53.4
148 63.8 51.3 76.9





#69

1,3,5-Trichlorobenzene

Concen: 23.155 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.617 min

Lab File: VU055304.D

Acq: 14 Sep 2023 12:53

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:180 Resp: 426432

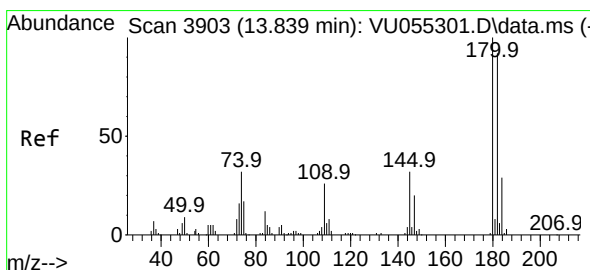
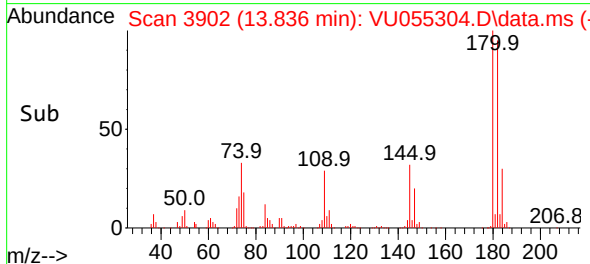
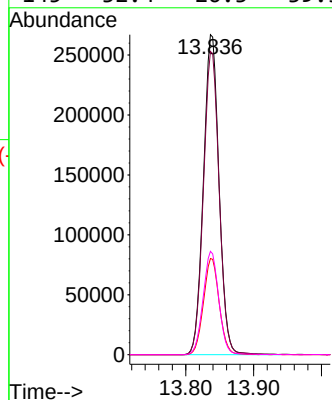
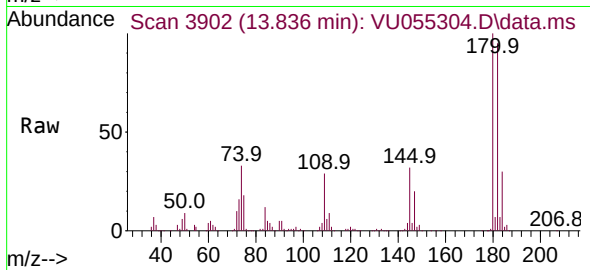
Ion Ratio Lower Upper

180 100

182 95.4 75.8 113.6

184 30.3 24.0 36.0

145 32.4 26.3 39.5



#70

1,2,4-trichlorobenzene

Concen: 24.693 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. -0.003 min

Lab File: VU055304.D

Acq: 14 Sep 2023 12:53

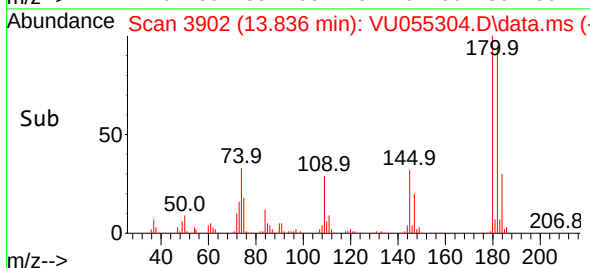
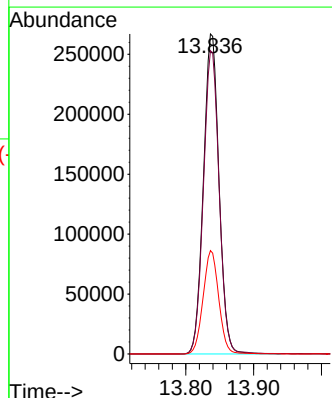
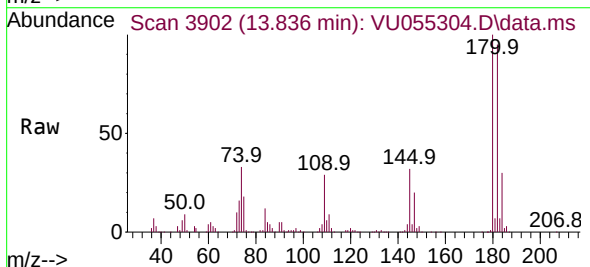
Tgt Ion:180 Resp: 426432

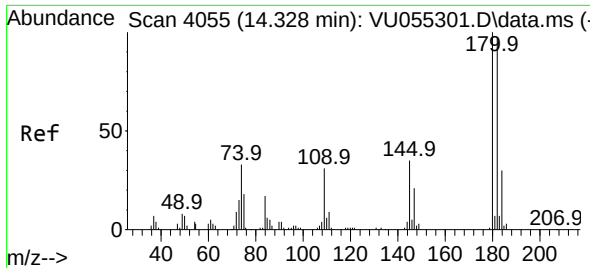
Ion Ratio Lower Upper

180 100

182 95.4 73.6 110.4

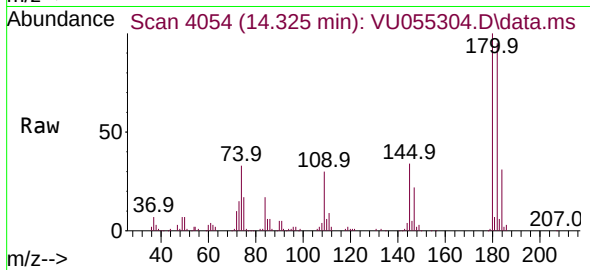
145 32.4 25.8 38.8





#72
 1,2,3-Trichlorobenzene
 Concen: 7.160 ug/L
 RT: 14.325 min Scan# 4054
 Delta R.T. -0.003 min
 Lab File: VU055304.D
 Acq: 14 Sep 2023 12:53

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 107316
 Ion Ratio Lower Upper
 180 100
 182 97.0 75.6 113.4
 145 35.1 27.0 40.6

