

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU103122\
 Data File : VU051610.D
 Acq On : 31 Oct 2022 14:39
 Operator : JC/MD
 Sample : N5301-03
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DBXC4

Quant Time: Nov 01 01:26:50 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR102822WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Nov 01 01:25:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	162216	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	172256	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	84252	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	47817	3.914	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.200%
7) Chloroethane-d5	1.903	69	57329	4.499	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.000%
11) 1,1-Dichloroethene-d2	2.562	65	19171	4.324	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.400%
20) 2-Butanone-d5	4.616	46	272391	61.563	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	123.120%
24) Chloroform-d	5.060	84	143162	5.008	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.200%
26) 1,2-Dichloroethane-d4	5.700	65	79434	5.143	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.800%
32) Benzene-d6	5.726	84	229683	4.225	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.600%
36) 1,2-Dichloropropane-d6	6.687	67	87866	4.623	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.400%
41) Toluene-d8	7.896	98	190087	4.447	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.000%
43) trans-1,3-Dichloroprop...	8.179	79	27643	4.756	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.200%
46) 2-Hexanone-d5	8.629	63	212740	60.805	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	121.620%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	95980	5.510	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.200%
66) 1,2-Dichlorobenzene-d4	12.192	152	68931	4.458	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.385	85	86484	4.875	ug/L	100
5) Vinyl chloride	1.604	62	99445	4.642	ug/L #	6
8) Chloroethane	1.925	64	217471	16.718	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.578	101	201182	14.552	ug/L	99
12) 1,1-Dichloroethene	2.575	96	39190	2.779	ug/L #	76
13) Acetone	2.620	43	387116	172.437	ug/L	100
15) Methyl Acetate	2.945	43	81057	13.791	ug/L	97
18) trans-1,2-Dichloroethene	3.350	96	50119	3.312	ug/L	98
19) 1,1-Dichloroethane	3.867	63	70712	2.533	ug/L	98
22) cis-1,2-Dichloroethene	4.665	96	78908	4.712	ug/L	98
23) Bromochloromethane	4.970	128	47301	6.041	ug/L	98
25) Chloroform	5.086	83	275398	9.510	ug/L	99
27) 1,2-Dichloroethane	5.793	62	44289	2.485	ug/L	99
29) 1,1,1-Trichloroethane	5.314	97	55270	2.363	ug/L	99
31) Carbon tetrachloride	5.523	117	73423	3.671	ug/L	98
34) Trichloroethene	6.542	95	40481	2.468	ug/L	97
39) cis-1,3-Dichloropropene	7.607	75	117010	5.216	ug/L	99
40) 4-Methyl-2-pentanone	7.790	43	717149	81.777	ug/L	100
44) trans-1,3-Dichloropropene	8.208	75	52558	2.804	ug/L	99

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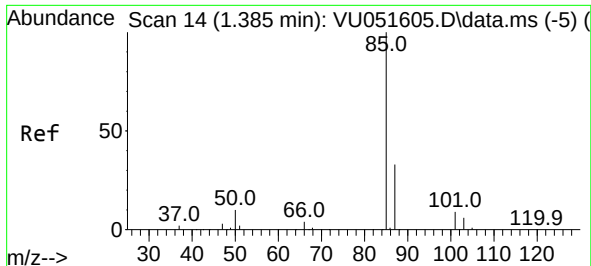
Instrument :
 MSVOA_U
 ClientSampleId :
 DBXC4

Quant Time: Nov 01 01:26:50 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR102822WMA.M
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

45) 1,1,2-Trichloroethane	8.398	97	30681	2.395	ug/L	98
47) Tetrachloroethene	8.552	164	44218	3.519	ug/L	93
50) 1,2-Dibromoethane	8.922	107	72354	6.259	ug/L	94
51) Chlorobenzene	9.446	112	292882	6.666	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.780	83	31985	2.013	ug/L	99
59) Bromoform	10.288	173	30093	3.866	ug/L	96
63) 1,2,4-Trimethylbenzene	11.468	105	196541	4.117	ug/L	98
64) 1,3-Dichlorobenzene	11.745	146	103046	3.365	ug/L	100
65) 1,4-Dichlorobenzene	11.835	146	65153	2.122	ug/L	94
70) 1,2,4-trichlorobenzene	13.838	180	81375	4.857	ug/L	98
72) 1,2,3-Trichlorobenzene	14.330	180	48536	2.869	ug/L	99

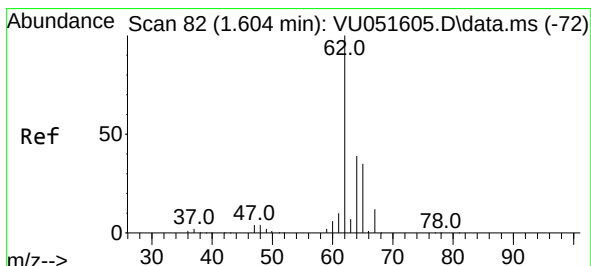
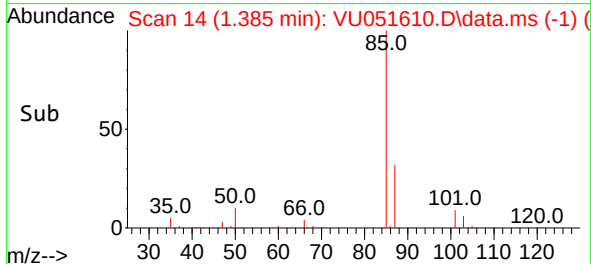
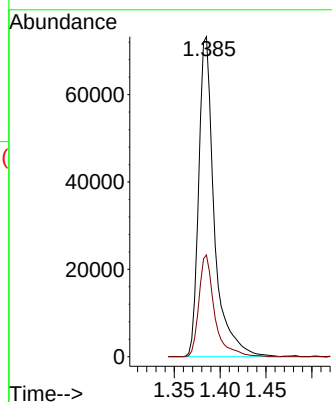
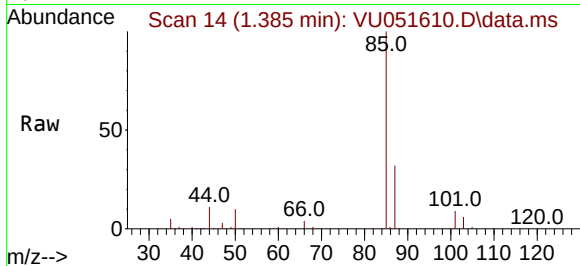
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
Dichlorodifluoromethane
Concen: 4.875 ug/L
RT: 1.385 min Scan# 14
Delta R.T. 0.000 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

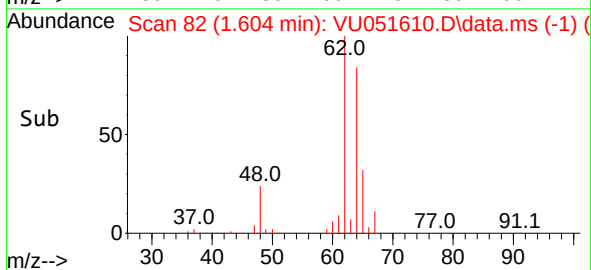
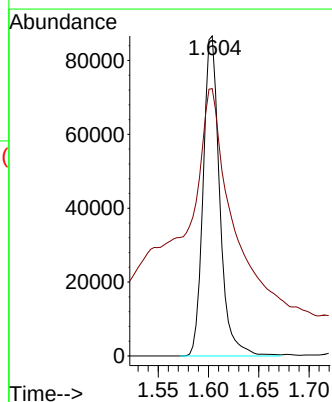
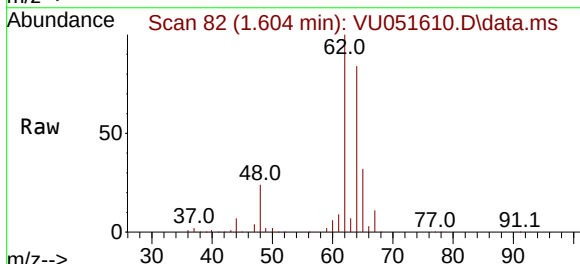
Instrument :
MSVOA_U
ClientSampleId :
DBXC4

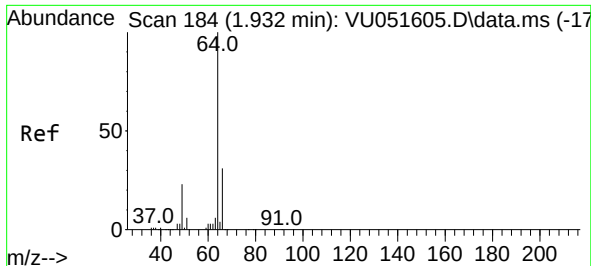
Tgt Ion: 85 Resp: 86484
Ion Ratio Lower Upper
85 100
87 32.0 25.7 38.5



#5
Vinyl chloride
Concen: 4.642 ug/L
RT: 1.604 min Scan# 82
Delta R.T. 0.000 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

Tgt Ion: 62 Resp: 99445
Ion Ratio Lower Upper
62 100
64 83.6 22.1 41.1#

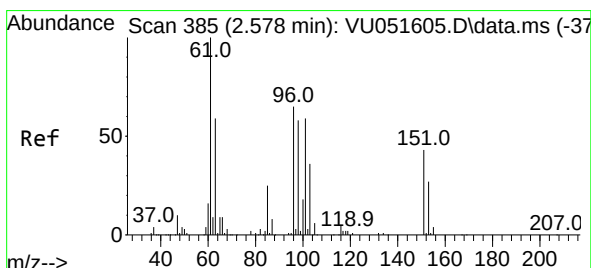
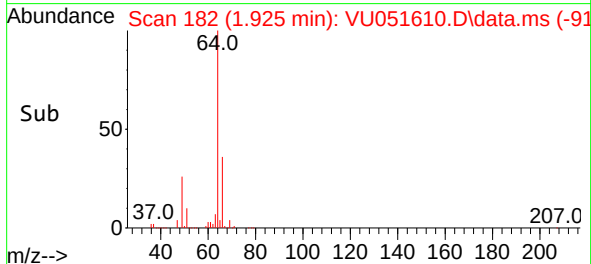
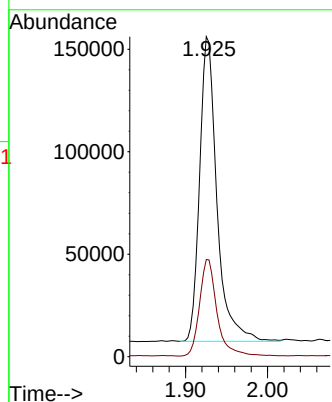
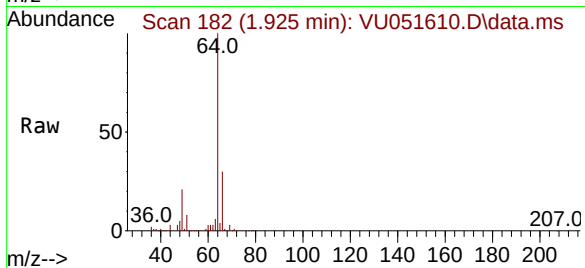




#8
Chloroethane
Concen: 16.718 ug/L
RT: 1.925 min Scan# 182
Delta R.T. -0.006 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

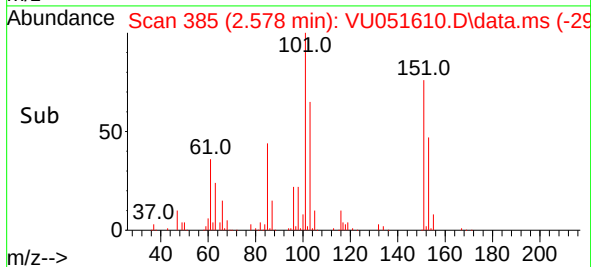
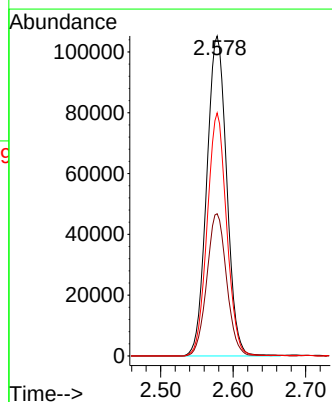
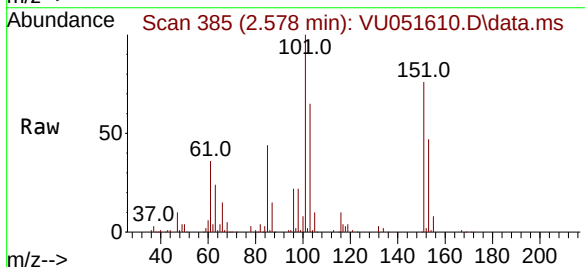
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MSVOA_U
ClientSampleId :
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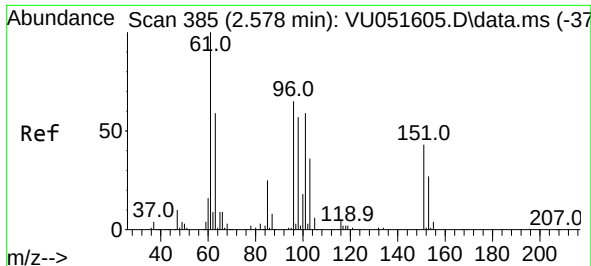
Tgt Ion: 64 Resp: 217471
Ion Ratio Lower Upper
64 100
66 30.4 22.3 41.5



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 14.552 ug/L
RT: 2.578 min Scan# 385
Delta R.T. 0.000 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

Tgt Ion: 101 Resp: 201182
Ion Ratio Lower Upper
101 100
85 44.1 35.6 53.4
151 74.0 59.6 89.4





#12

1,1-Dichloroethene

Concen: 2.779 ug/L

RT: 2.575 min Scan# 385

Delta R.T. -0.003 min

Lab File: VU051610.D

Acq: 31 Oct 2022 14:39

Instrument :

MSVOA_U

ClientSampleId :

DBXC4

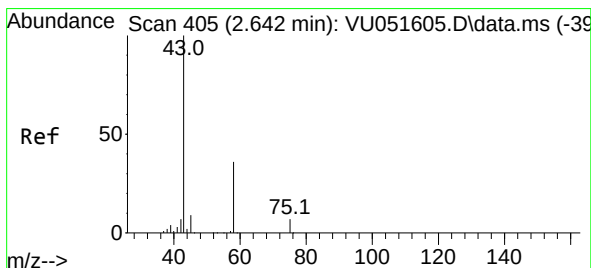
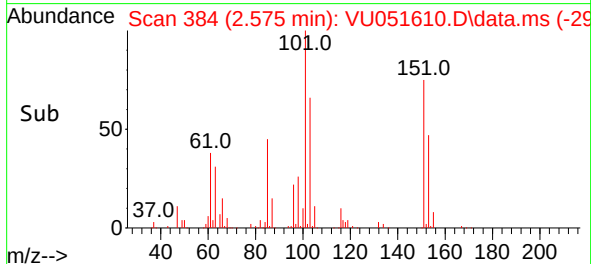
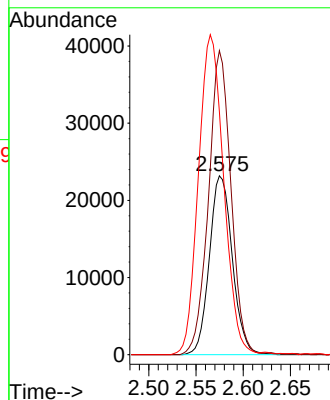
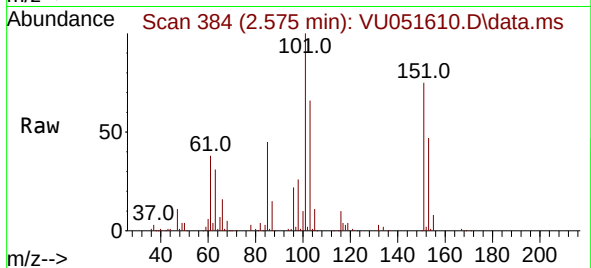
Tgt Ion: 96 Resp: 39190

Ion Ratio Lower Upper

96 100

61 170.0 108.8 202.0

63 135.8 64.9 120.5#



#13

Acetone

Concen: 172.437 ug/L

RT: 2.620 min Scan# 398

Delta R.T. -0.022 min

Lab File: VU051610.D

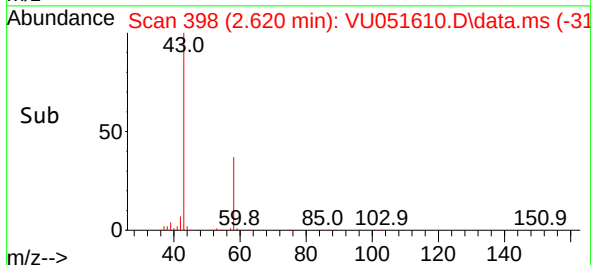
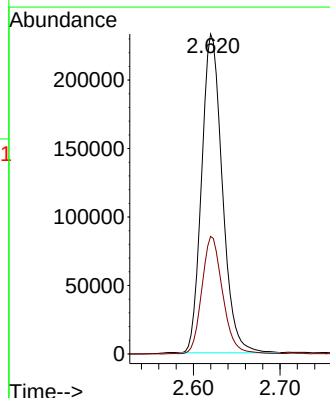
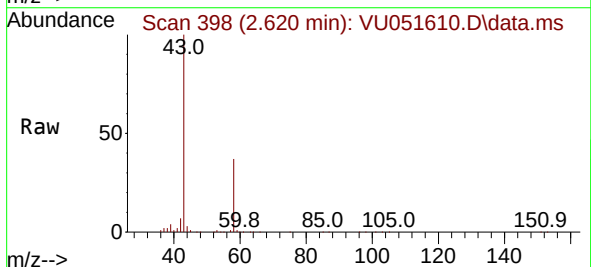
Acq: 31 Oct 2022 14:39

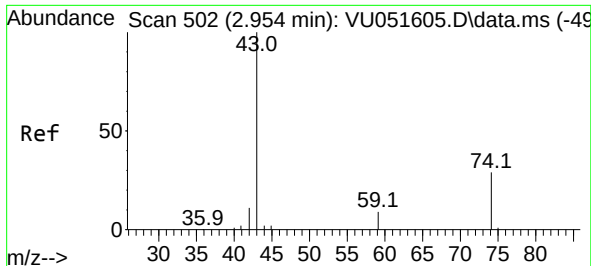
Tgt Ion: 43 Resp: 387116

Ion Ratio Lower Upper

43 100

58 36.8 0.0 73.8

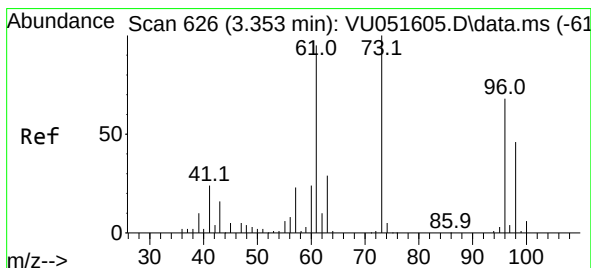
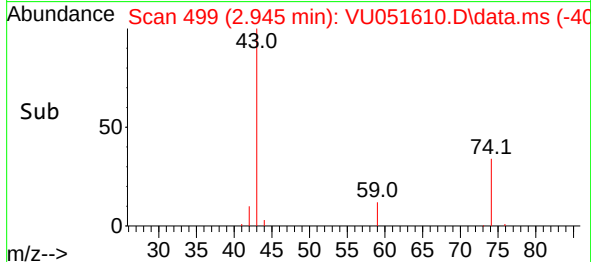
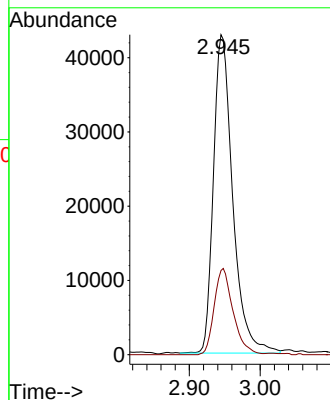
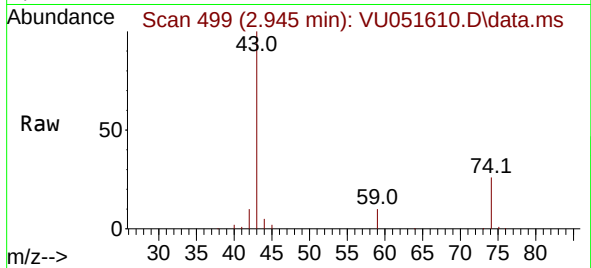




#15
Methyl Acetate
Concen: 13.791 ug/L
RT: 2.945 min Scan# 499
Delta R.T. -0.010 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

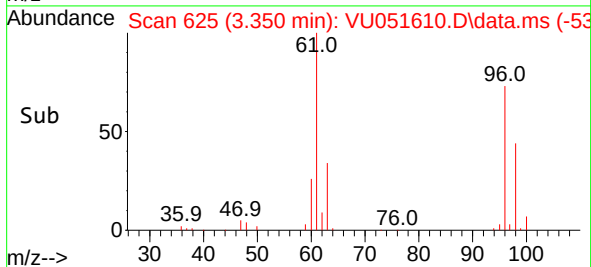
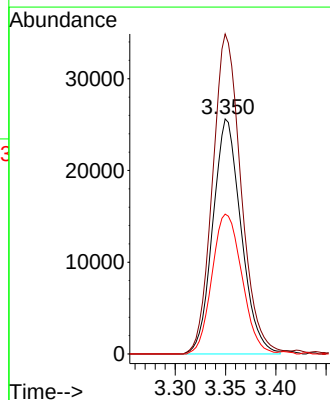
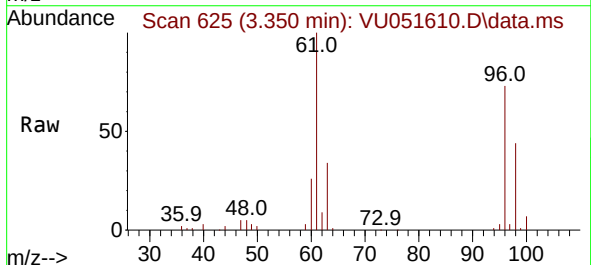
Instrument :
MSVOA_U
ClientSampleId :
DBXC4

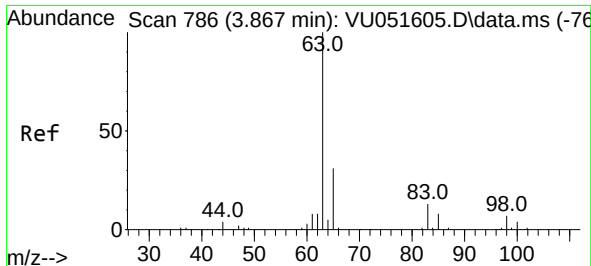
Tgt Ion: 43 Resp: 81057
Ion Ratio Lower Upper
43 100
74 26.6 20.2 30.4



#18
trans-1,2-Dichloroethene
Concen: 3.312 ug/L
RT: 3.350 min Scan# 625
Delta R.T. -0.003 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

Tgt Ion: 96 Resp: 50119
Ion Ratio Lower Upper
96 100
61 136.2 94.7 175.9
98 59.5 44.2 82.0





#19

1,1-Dichloroethane

Concen: 2.533 ug/L

RT: 3.867 min Scan# 786

Delta R.T. 0.000 min

Lab File: VU051610.D

Acq: 31 Oct 2022 14:39

Instrument :

MSVOA_U

ClientSampleId :

DBXC4

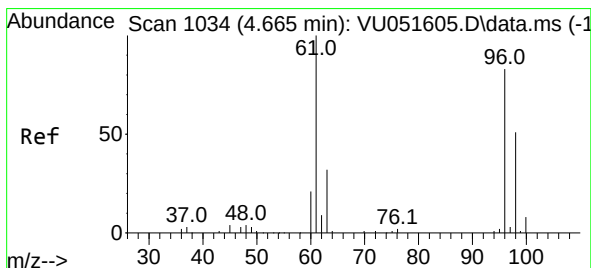
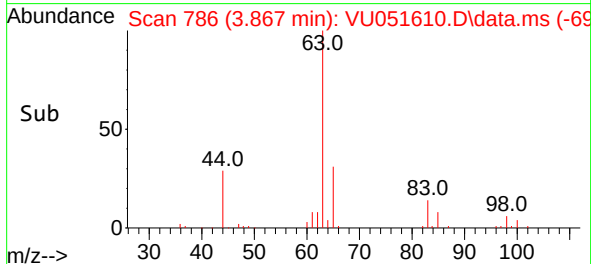
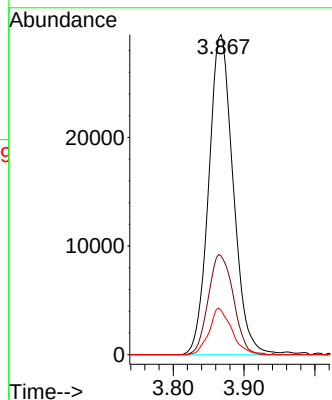
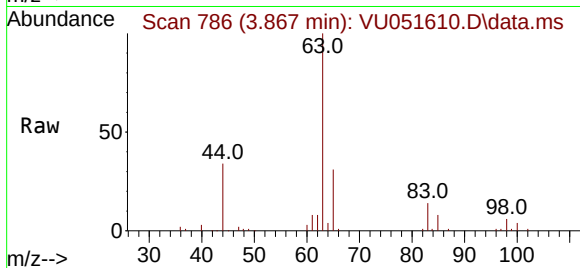
Tgt Ion: 63 Resp: 70712

Ion Ratio Lower Upper

63 100

65 30.9 22.7 42.1

83 13.9 9.2 17.0



#22

cis-1,2-Dichloroethene

Concen: 4.712 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. 0.000 min

Lab File: VU051610.D

Acq: 31 Oct 2022 14:39

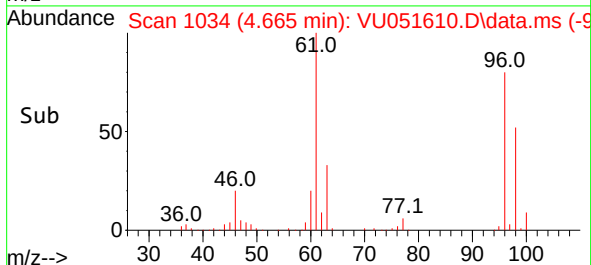
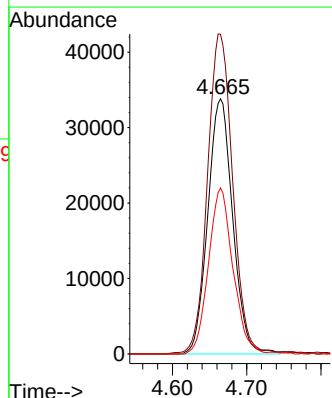
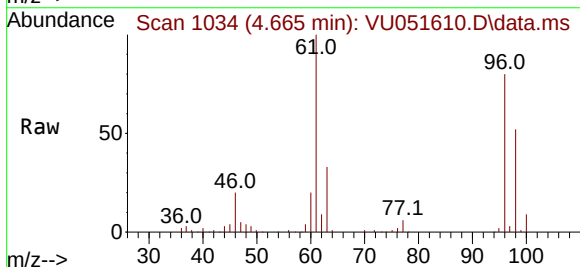
Tgt Ion: 96 Resp: 78908

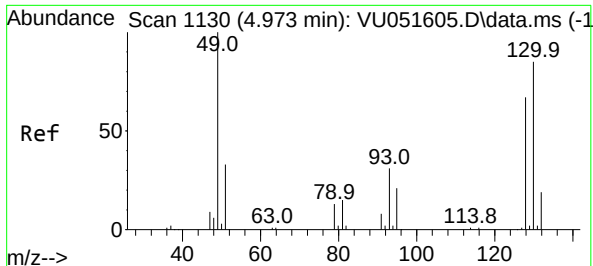
Ion Ratio Lower Upper

96 100

61 125.3 86.4 160.4

98 65.1 44.2 82.2

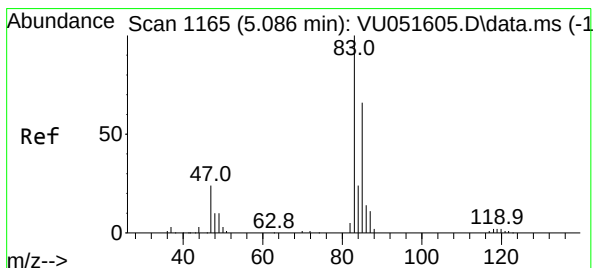
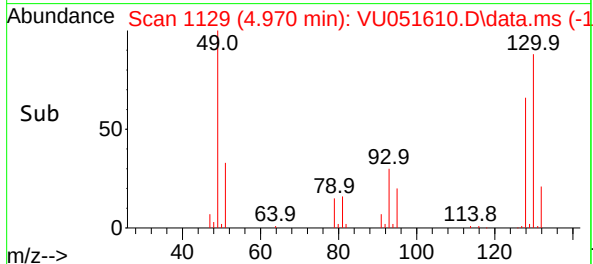
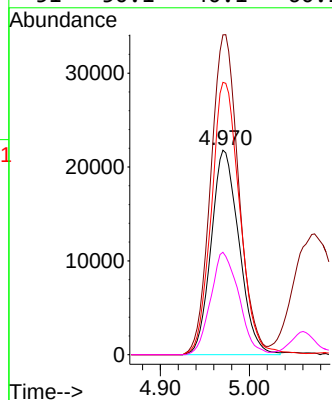
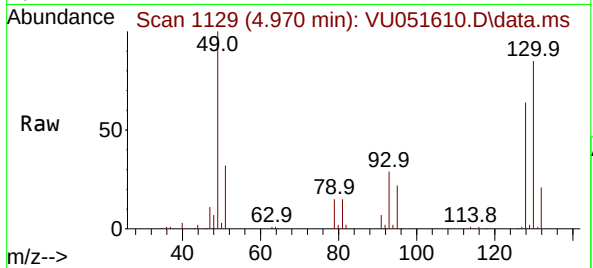




#23
Bromochloromethane
Concen: 6.041 ug/L
RT: 4.970 min Scan# 1130
Delta R.T. -0.003 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

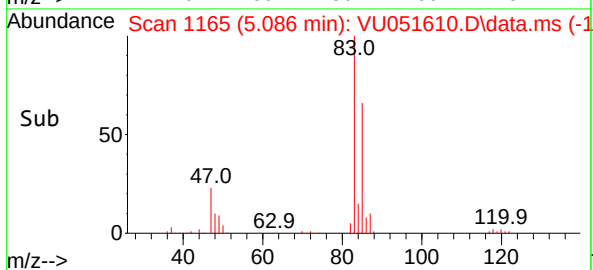
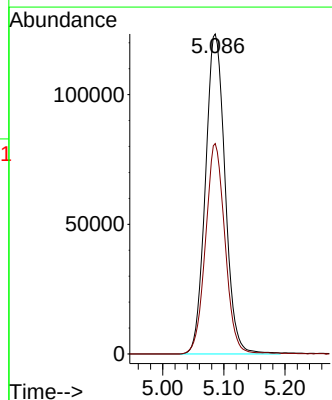
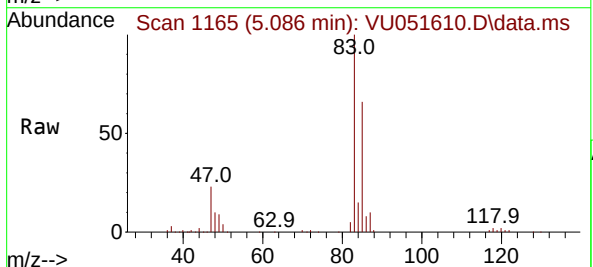
Instrument :
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ClientSampleId :
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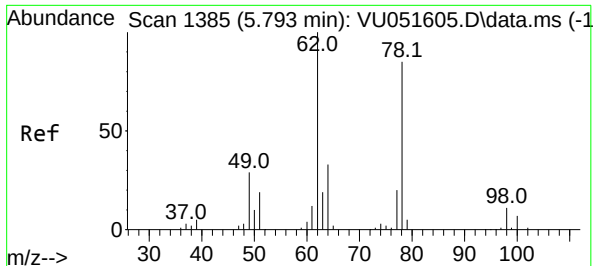
Tgt Ion:128 Resp: 47301
Ion Ratio Lower Upper
128 100
49 156.5 105.5 195.9
130 133.2 93.5 173.7
51 50.1 40.1 60.1



#25
Chloroform
Concen: 9.510 ug/L
RT: 5.086 min Scan# 1165
Delta R.T. 0.000 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

Tgt Ion: 83 Resp: 275398
Ion Ratio Lower Upper
83 100
85 65.8 45.2 84.0

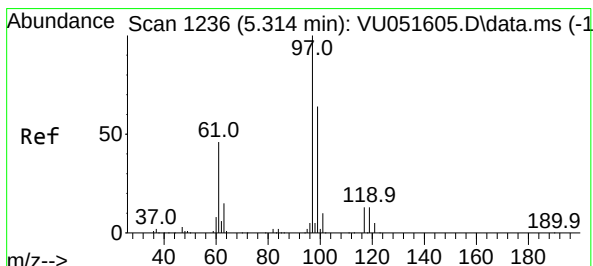
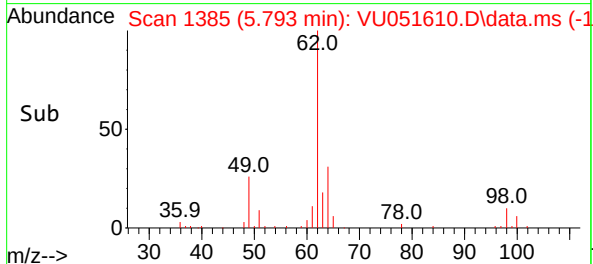
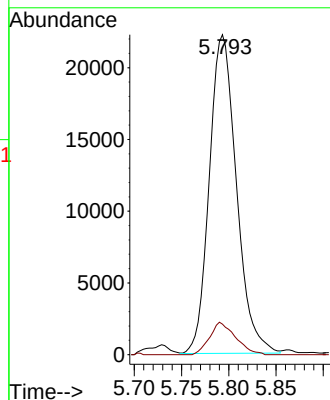
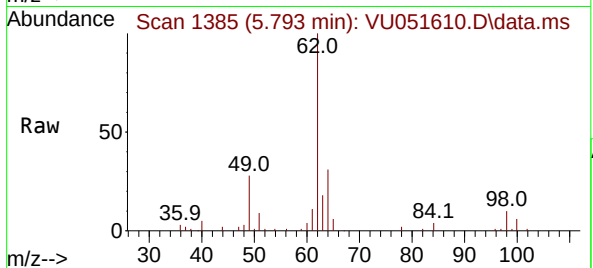




#27
1,2-Dichloroethane
Concen: 2.485 ug/L
RT: 5.793 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

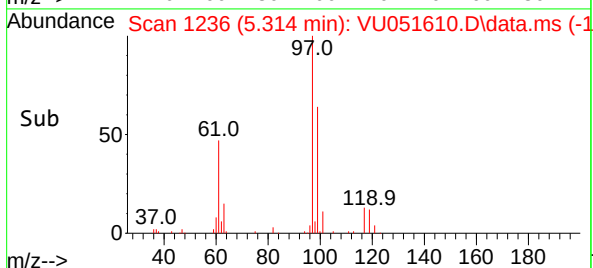
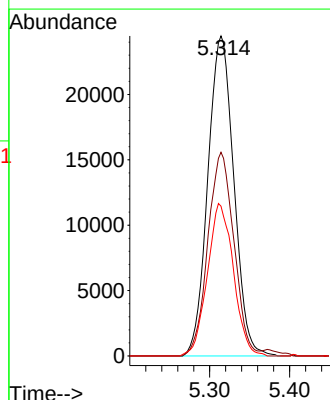
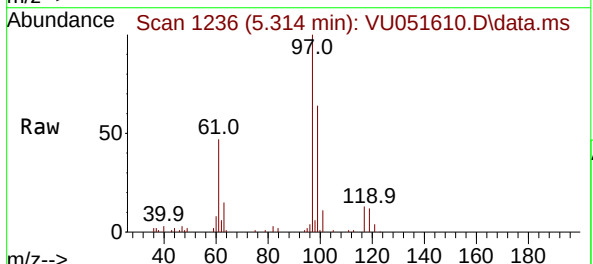
Instrument :
MSVOA_U
ClientSampleId :
DBXC4

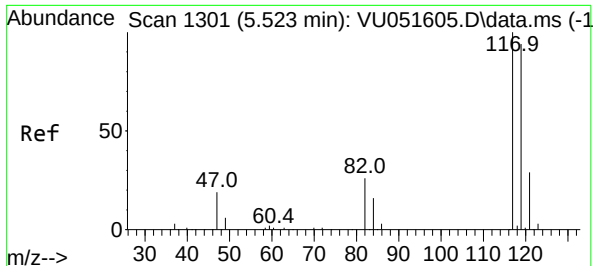
Tgt Ion: 62 Resp: 44289
Ion Ratio Lower Upper
62 100
98 9.5 7.4 11.0



#29
1,1,1-Trichloroethane
Concen: 2.363 ug/L
RT: 5.314 min Scan# 1236
Delta R.T. 0.000 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

Tgt Ion: 97 Resp: 55270
Ion Ratio Lower Upper
97 100
99 63.7 51.1 76.7
61 47.7 37.4 56.0

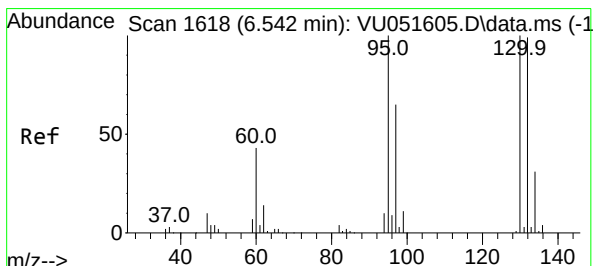
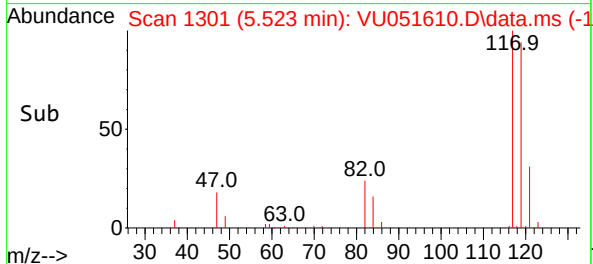
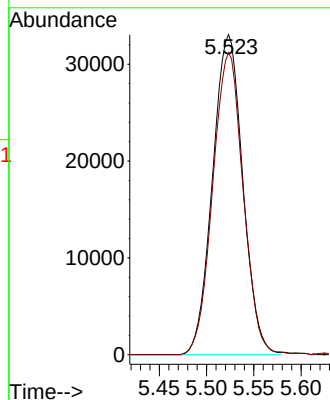
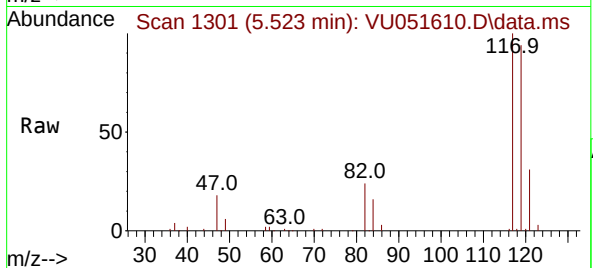




#31
Carbon tetrachloride
Concen: 3.671 ug/L
RT: 5.523 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

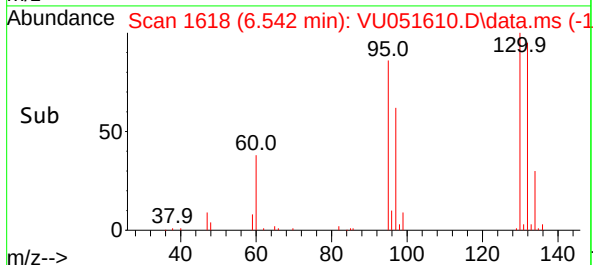
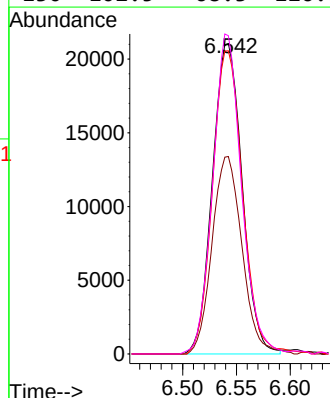
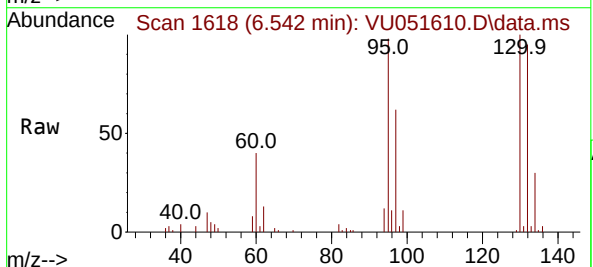
Instrument :
MSVOA_U
ClientSampleId :
DBXC4

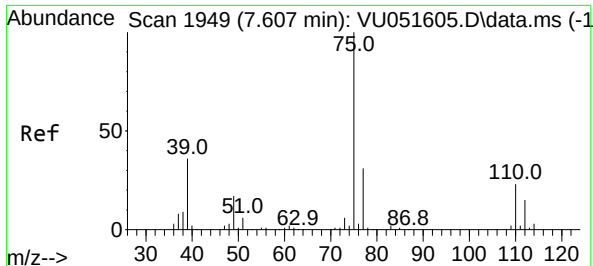
Tgt Ion:117 Resp: 73423
Ion Ratio Lower Upper
117 100
119 94.9 77.5 116.3



#34
Trichloroethene
Concen: 2.468 ug/L
RT: 6.542 min Scan# 1618
Delta R.T. 0.000 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

Tgt Ion: 95 Resp: 40481
Ion Ratio Lower Upper
95 100
97 63.6 45.2 84.0
132 97.7 66.5 123.5
130 102.5 68.3 126.8





#39

cis-1,3-Dichloropropene

Concen: 5.216 ug/L

RT: 7.607 min Scan# 1949

Delta R.T. 0.000 min

Lab File: VU051610.D

Acq: 31 Oct 2022 14:39

Instrument :

MSVOA_U

ClientSampleId :

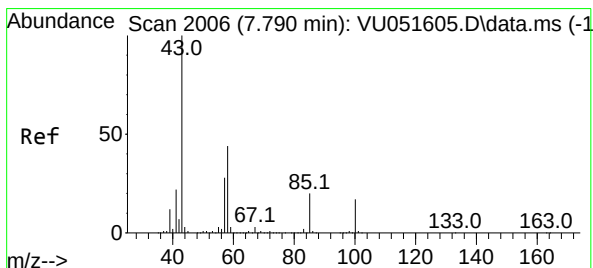
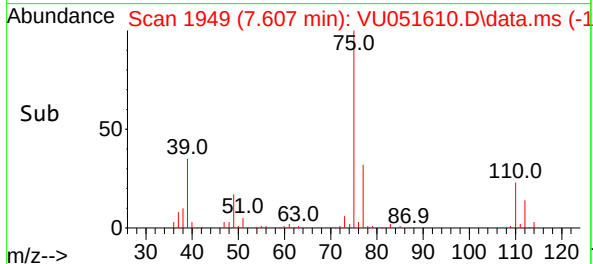
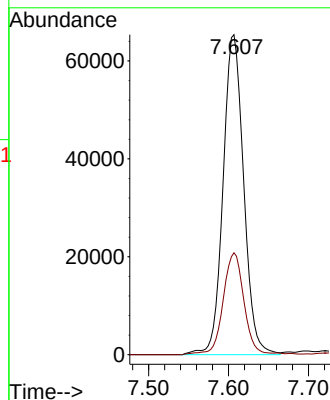
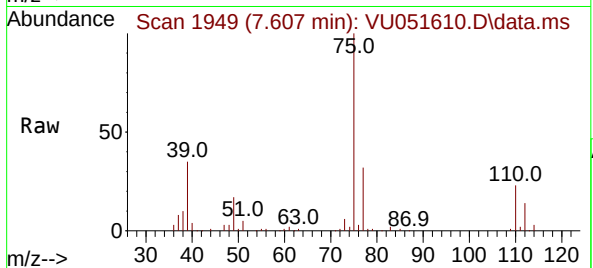
DBXC4

Tgt Ion: 75 Resp: 117010

Ion Ratio Lower Upper

75 100

77 31.8 22.5 41.9



#40

4-Methyl-2-pentanone

Concen: 81.777 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VU051610.D

Acq: 31 Oct 2022 14:39

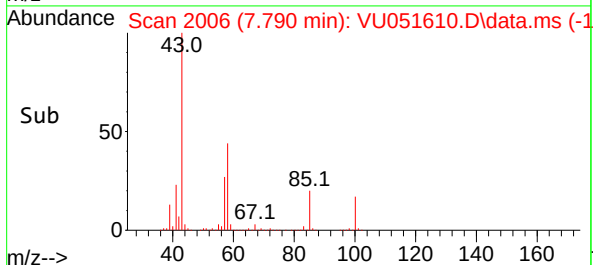
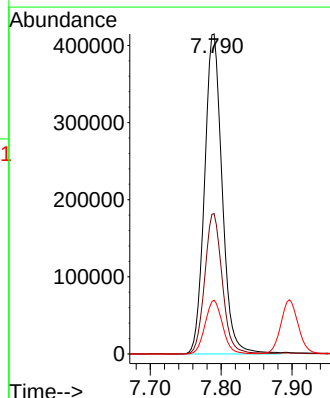
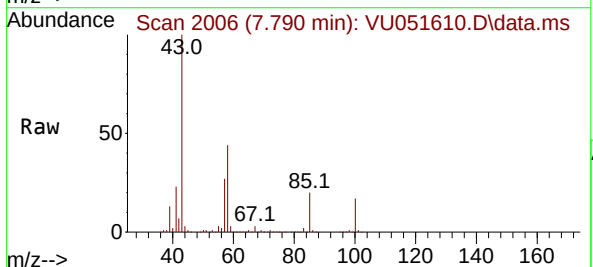
Tgt Ion: 43 Resp: 717149

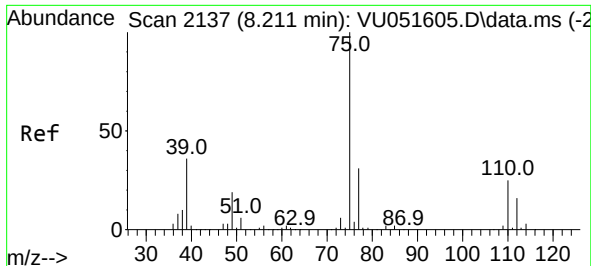
Ion Ratio Lower Upper

43 100

58 43.7 35.0 52.6

100 16.6 13.4 20.0

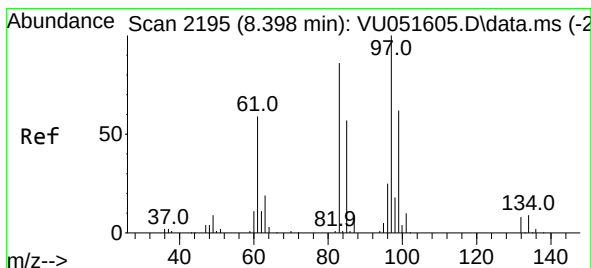
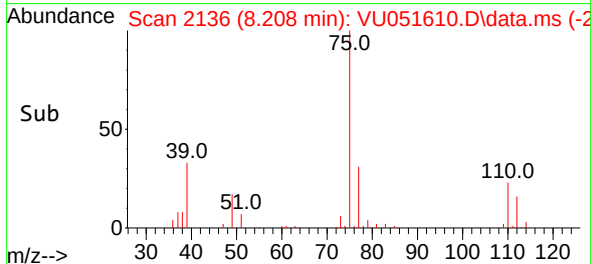
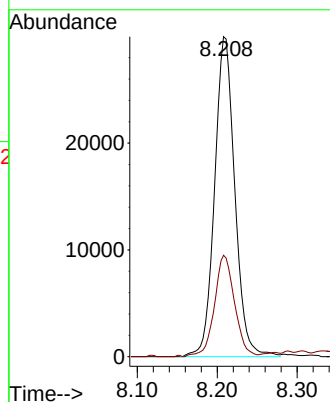
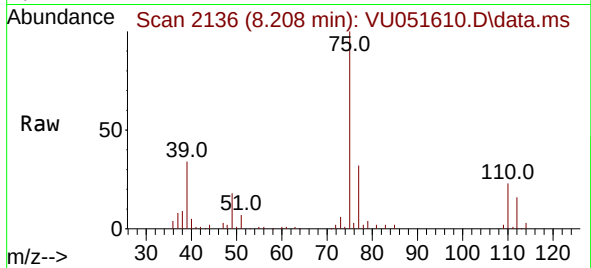




#44
trans-1,3-Dichloropropene
Concen: 2.804 ug/L
RT: 8.208 min Scan# 2136
Delta R.T. -0.003 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

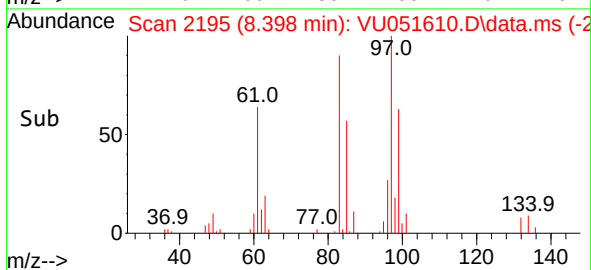
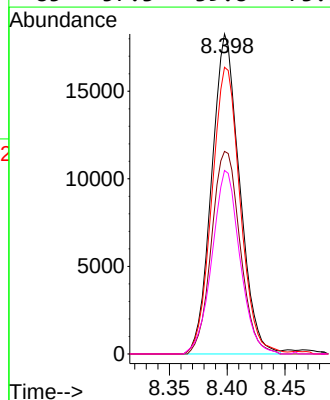
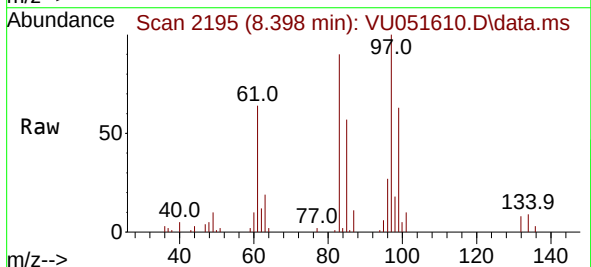
Instrument :
MSVOA_U
ClientSampleId :
DBXC4

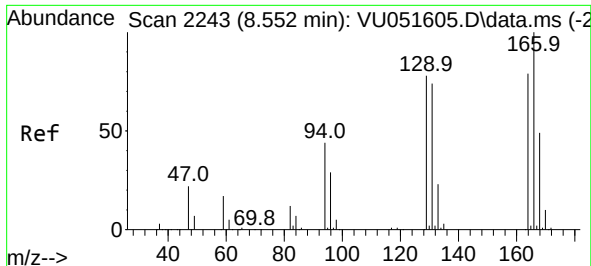
Tgt Ion: 75 Resp: 52558
Ion Ratio Lower Upper
75 100
77 31.7 21.8 40.6



#45
1,1,2-Trichloroethane
Concen: 2.395 ug/L
RT: 8.398 min Scan# 2195
Delta R.T. 0.000 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

Tgt Ion: 97 Resp: 30681
Ion Ratio Lower Upper
97 100
99 63.3 43.4 80.6
83 89.6 61.3 113.9
85 57.3 39.8 73.8





#47

Tetrachloroethene

Concen: 3.519 ug/L

RT: 8.552 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU051610.D

Acq: 31 Oct 2022 14:39

Instrument :

MSVOA_U

ClientSampleId :

DBXC4

Tgt Ion:164 Resp: 44218

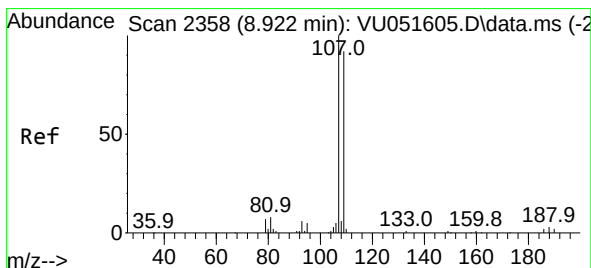
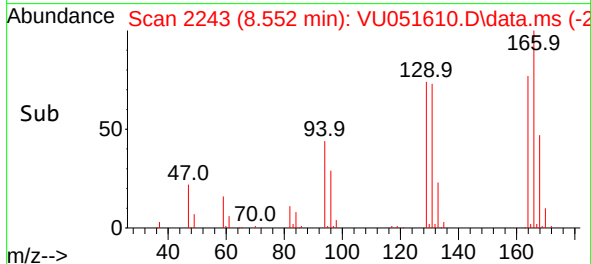
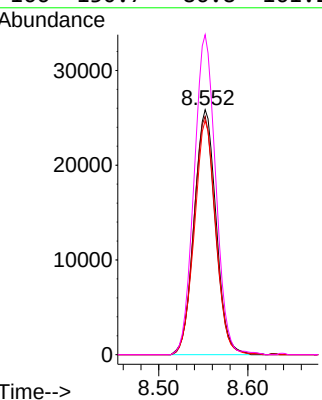
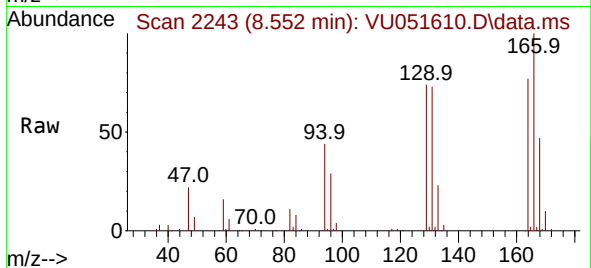
Ion Ratio Lower Upper

164 100

129 97.3 64.0 118.8

131 95.6 60.7 112.7

166 130.7 86.8 161.2



#50

1,2-Dibromoethane

Concen: 6.259 ug/L

RT: 8.922 min Scan# 2358

Delta R.T. 0.000 min

Lab File: VU051610.D

Acq: 31 Oct 2022 14:39

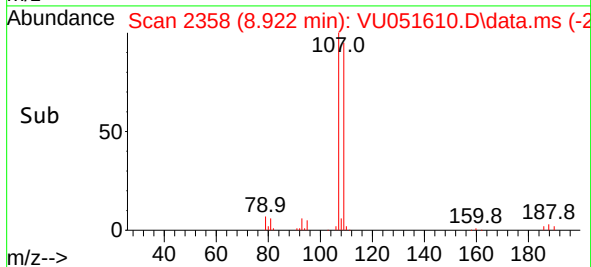
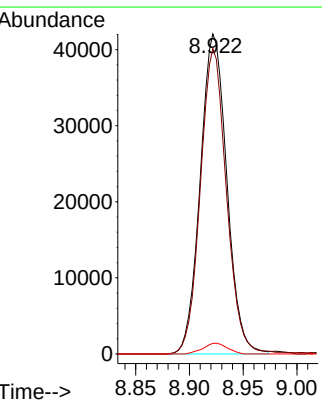
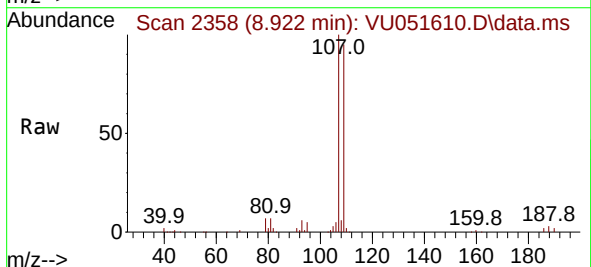
Tgt Ion:107 Resp: 72354

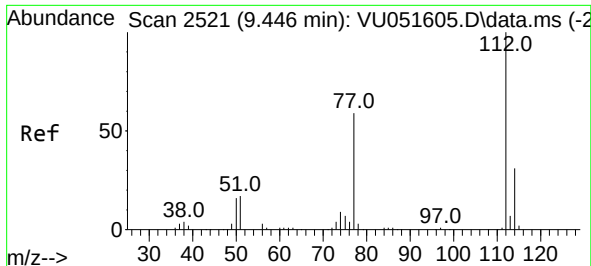
Ion Ratio Lower Upper

107 100

109 95.5 63.0 117.0

188 3.3 3.0 4.4

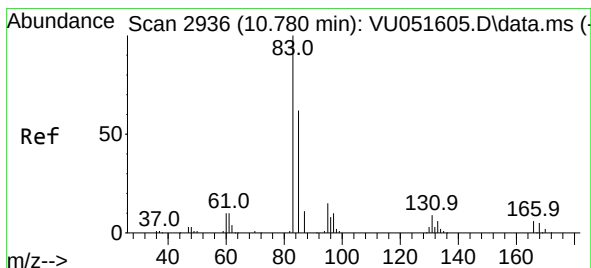
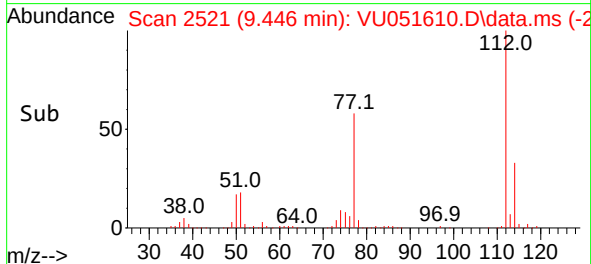
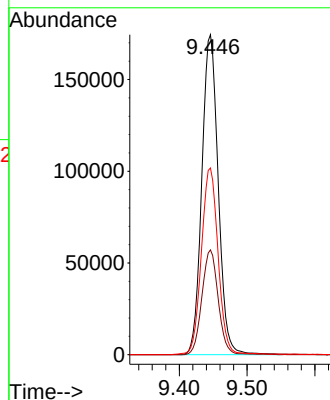
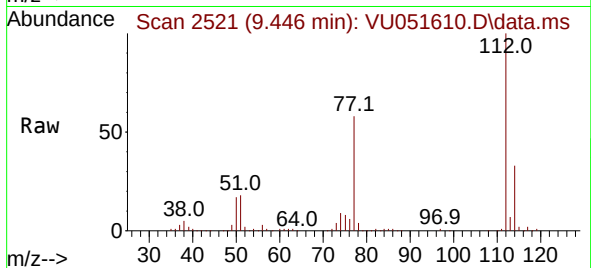




#51
Chlorobenzene
Concen: 6.666 ug/L
RT: 9.446 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

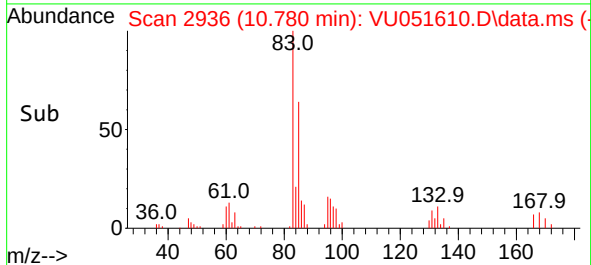
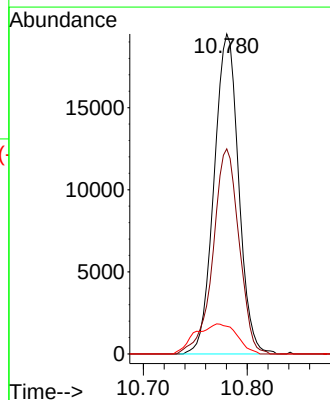
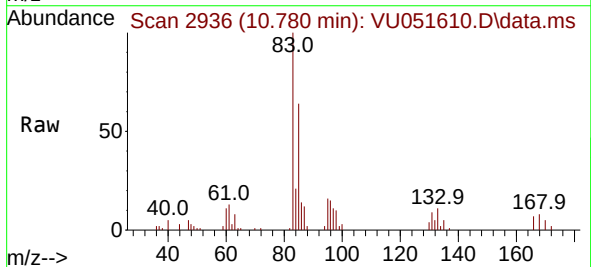
Instrument :
MSVOA_U
ClientSampleId :
DBXC4

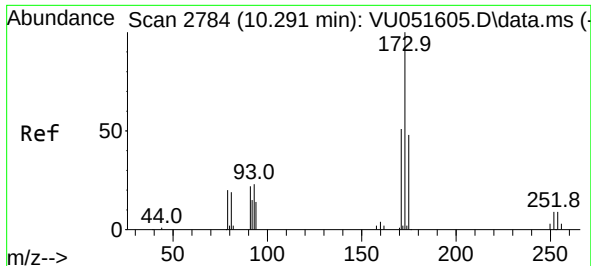
Tgt Ion:112 Resp: 292882
Ion Ratio Lower Upper
112 100
114 32.7 22.0 40.8
77 58.4 46.7 70.1



#57
1,1,2,2-Tetrachloroethane
Concen: 2.013 ug/L
RT: 10.780 min Scan# 2936
Delta R.T. 0.000 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

Tgt Ion: 83 Resp: 31985
Ion Ratio Lower Upper
83 100
85 64.1 44.9 83.5
131 8.6 7.8 11.8

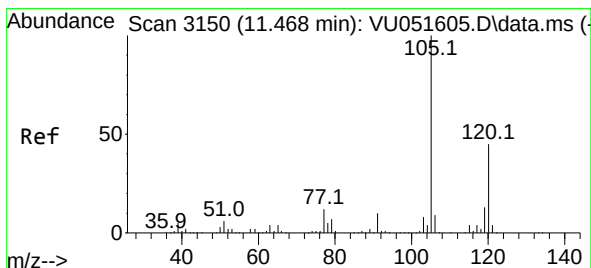
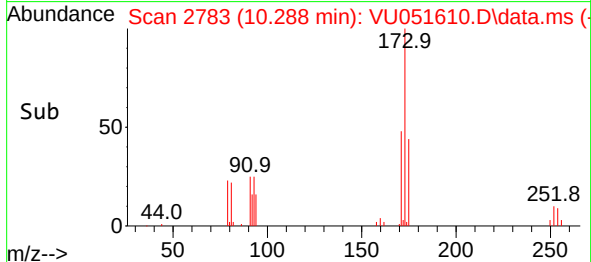
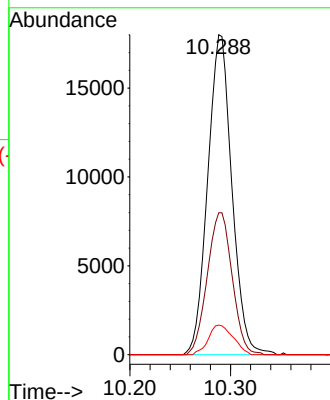
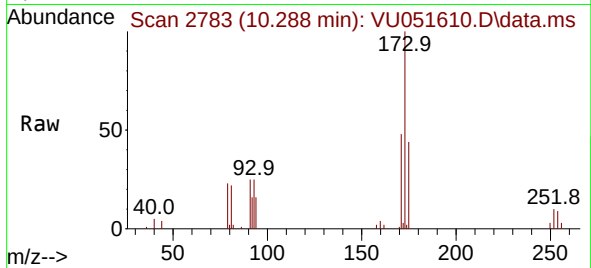




#59
Bromoform
Concen: 3.866 ug/L
RT: 10.288 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

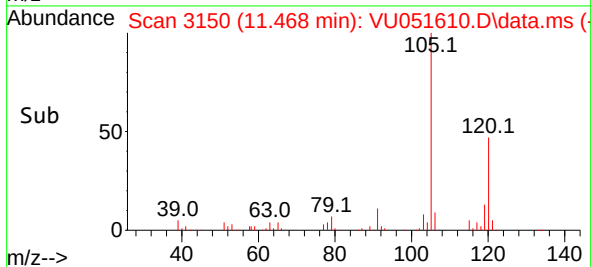
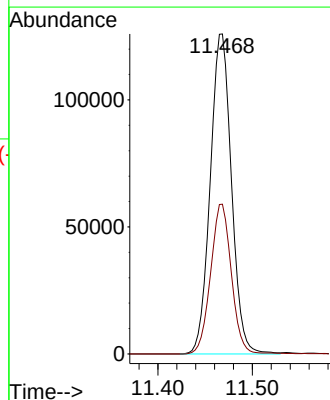
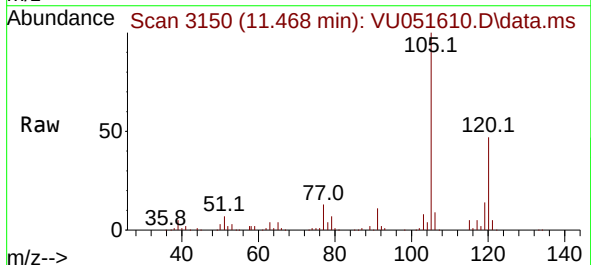
Instrument :
MSVOA_U
ClientSampleId :
DBXC4

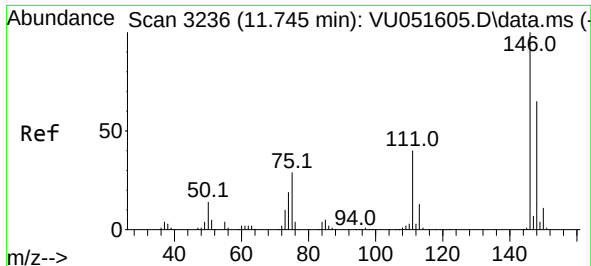
Tgt Ion:173 Resp: 30093
Ion Ratio Lower Upper
173 100
175 45.6 38.7 58.1
254 9.5 7.3 10.9



#63
1,2,4-Trimethylbenzene
Concen: 4.117 ug/L
RT: 11.468 min Scan# 3150
Delta R.T. 0.000 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

Tgt Ion:105 Resp: 196541
Ion Ratio Lower Upper
105 100
120 45.8 35.8 53.6

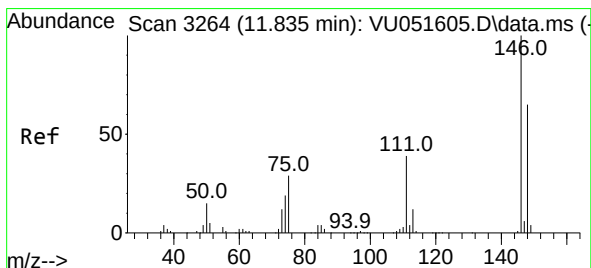
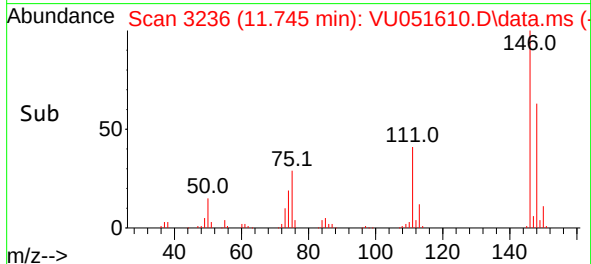
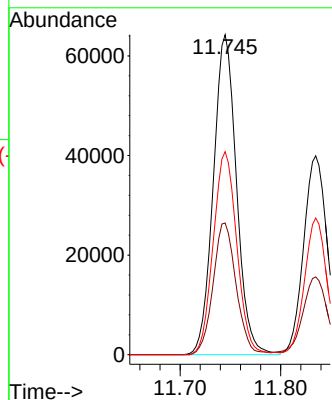
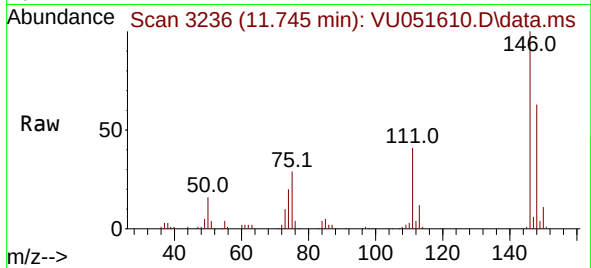




#64
1,3-Dichlorobenzene
Concen: 3.365 ug/L
RT: 11.745 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

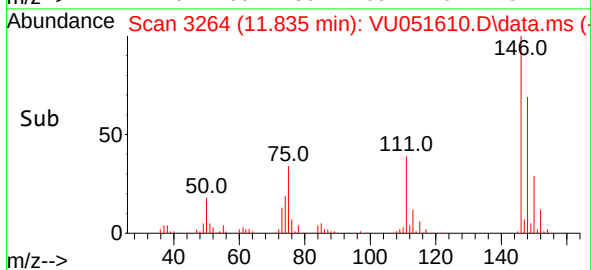
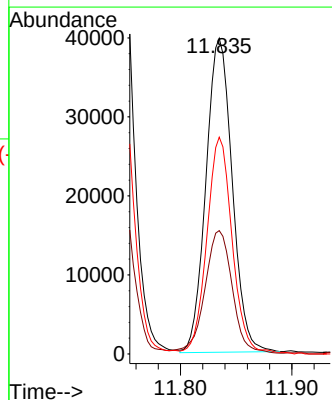
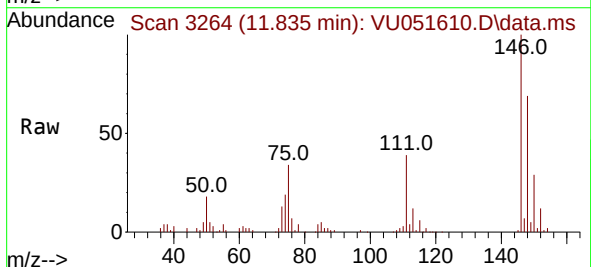
Instrument :
MSVOA_U
ClientSampleId :
DBXC4

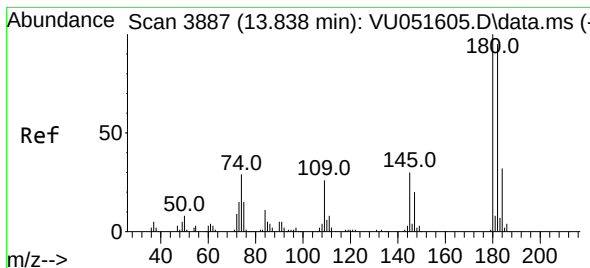
Tgt Ion:146 Resp: 103046
Ion Ratio Lower Upper
146 100
111 41.2 28.6 53.2
148 63.5 44.7 82.9



#65
1,4-Dichlorobenzene
Concen: 2.122 ug/L
RT: 11.835 min Scan# 3264
Delta R.T. 0.000 min
Lab File: VU051610.D
Acq: 31 Oct 2022 14:39

Tgt Ion:146 Resp: 65153
Ion Ratio Lower Upper
146 100
111 39.1 26.7 49.5
148 68.7 43.5 80.9





#70

1,2,4-trichlorobenzene

Concen: 4.857 ug/L

RT: 13.838 min Scan# 3887

Delta R.T. 0.000 min

Lab File: VU051610.D

Acq: 31 Oct 2022 14:39

Instrument :

MSVOA_U

ClientSampleId :

DBXC4

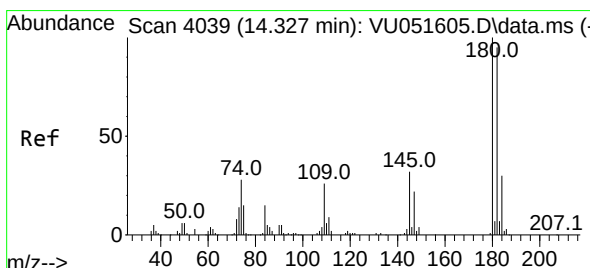
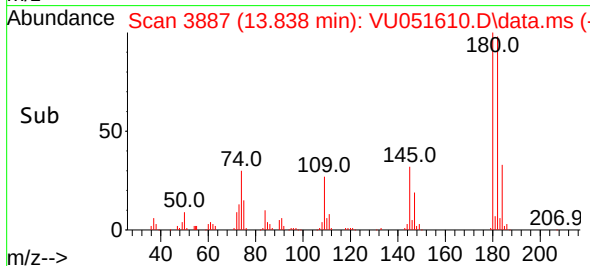
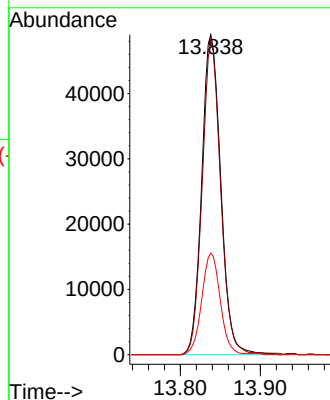
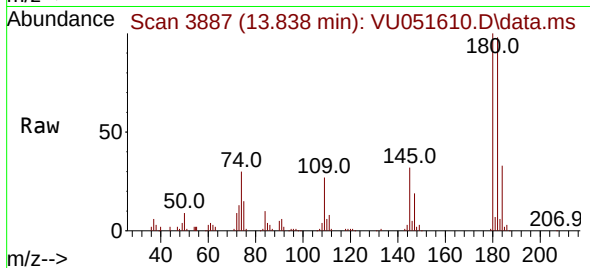
Tgt Ion:180 Resp: 81375

Ion Ratio Lower Upper

180 100

182 95.0 77.8 116.6

145 30.8 25.0 37.6



#72

1,2,3-Trichlorobenzene

Concen: 2.869 ug/L

RT: 14.330 min Scan# 4040

Delta R.T. 0.003 min

Lab File: VU051610.D

Acq: 31 Oct 2022 14:39

Tgt Ion:180 Resp: 48536

Ion Ratio Lower Upper

180 100

182 96.9 76.1 114.1

145 32.1 25.6 38.4

