

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU062123\
 Data File : VU054637.D
 Acq On : 21 Jun 2023 12:40
 Operator : MD/SY
 Sample : VIBLK165
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VIBLK165

Quant Time: Jun 22 02:44:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR060723WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Jun 22 02:42:14 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	306374	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	294458	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	138498	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	126583	6.492	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	129.800%
7) Chloroethane-d5	1.914	69	100808	5.522	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	110.400%
11) 1,1-Dichloroethene-d2	2.563	65	48684	5.590	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	111.800%
20) 2-Butanone-d5	4.627	46	274745	50.118	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.240%
24) Chloroform-d	5.058	84	191028	4.687	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.800%
26) 1,2-Dichloroethane-d4	5.698	65	97875	4.926	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.600%
32) Benzene-d6	5.724	84	383310	4.683	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.600%
36) 1,2-Dichloropropane-d6	6.685	67	132311	4.840	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.800%
41) Toluene-d8	7.894	98	330400	4.548	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.000%
43) trans-1,3-Dichloroprop...	8.177	79	45878	4.826	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.600%
46) 2-Hexanone-d5	8.631	63	175745	44.067	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	88.140%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	92558	4.541	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.800%
66) 1,2-Dichlorobenzene-d4	12.190	152	112689	4.824	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.400%
Target Compounds						
					Qvalue	
3) Chloromethane	1.521	50	5374	0.163	ug/L	96
5) Vinyl chloride	1.605	62	4991	0.148	ug/L #	55
8) Chloroethane	1.933	64	3103	0.153	ug/L	95
10) 1,1,2-Trichloro-1,2,2-...	2.573	101	4742	0.195	ug/L #	79
12) 1,1-Dichloroethene	2.576	96	4457	0.201	ug/L #	1
14) Carbon disulfide	2.792	76	9428	0.143	ug/L	97
17) Methyl tert-butyl Ether	3.357	73	7382	0.135	ug/L #	95
18) trans-1,2-Dichloroethene	3.357	96	3077	0.134	ug/L	97
19) 1,1-Dichloroethane	3.869	63	6859	0.144	ug/L	91
22) cis-1,2-Dichloroethene	4.663	96	15679	0.600	ug/L	92
27) 1,2-Dichloroethane	5.795	62	3941	0.144	ug/L #	74
29) 1,1,1-Trichloroethane	5.319	97	5372	0.135	ug/L	97
33) Benzene	5.769	78	14569	0.138	ug/L	100
34) Trichloroethene	6.541	95	76701	2.741	ug/L	93
37) 1,2-Dichloropropane	6.785	63	4460	0.156	ug/L	99
38) Bromodichloromethane	7.103	83	4466	0.138	ug/L #	91
39) cis-1,3-Dichloropropene	7.605	75	5089	0.130	ug/L #	78
44) trans-1,3-Dichloropropene	8.213	75	4941	0.156	ug/L	85
45) 1,1,2-Trichloroethane	8.396	97	2335	0.128	ug/L #	80

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

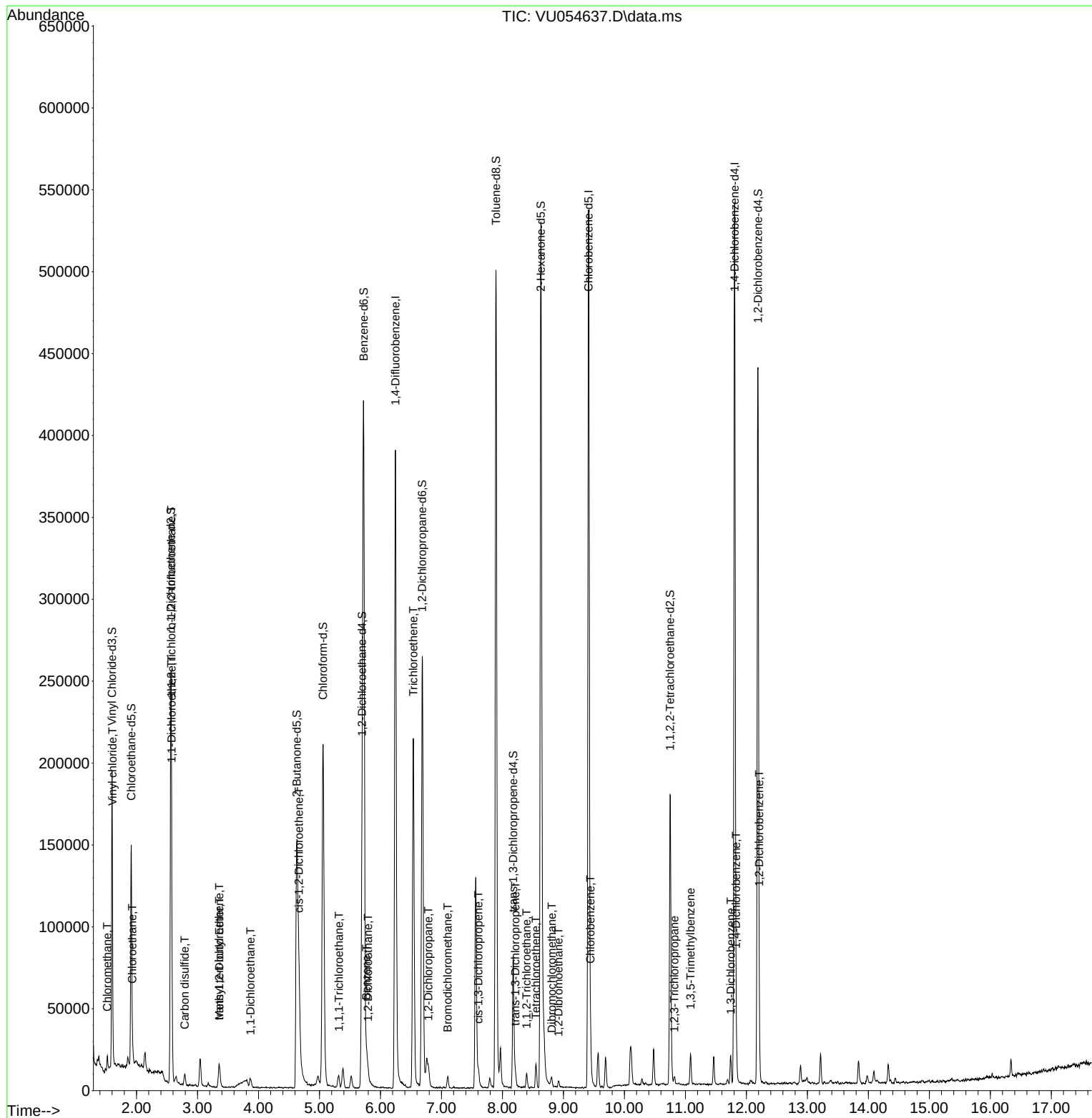
47) Tetrachloroethene	8.550	164	3278	0.153	ug/L	96
49) Dibromochloromethane	8.807	129	2992	0.157	ug/L	81
50) 1,2-Dibromoethane	8.920	107	2342	0.140	ug/L #	89
51) Chlorobenzene	9.444	112	10493	0.154	ug/L	94
61) 1,2,3-Trichloropropane	10.817	75	2413	0.172	ug/L	92
62) 1,3,5-Trimethylbenzene	11.084	105	10593	0.128	ug/L	89
64) 1,3-Dichlorobenzene	11.746	146	6381	0.135	ug/L	91
65) 1,4-Dichlorobenzene	11.833	146	7202	0.152	ug/L	99
67) 1,2-Dichlorobenzene	12.209	146	6856	0.157	ug/L #	92

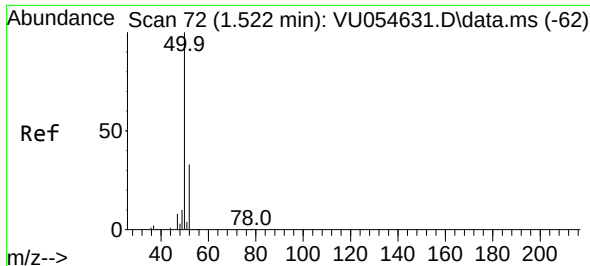
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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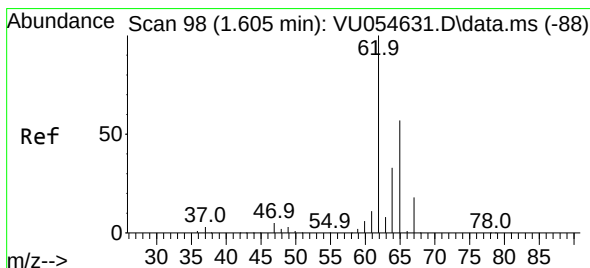
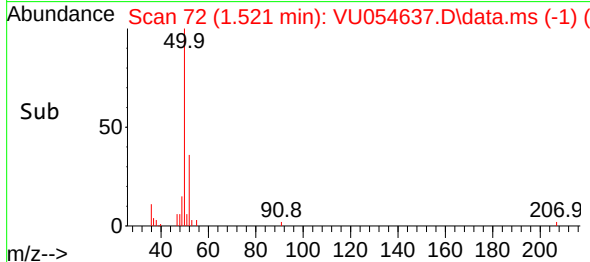
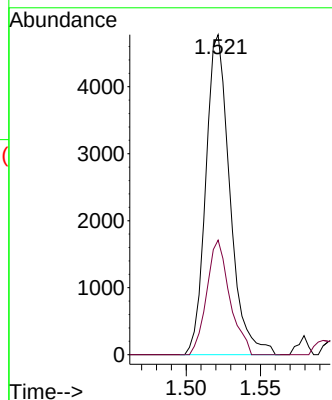
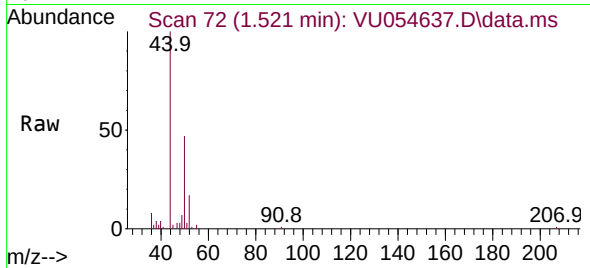




#3
Chloromethane
Concen: 0.163 ug/L
RT: 1.521 min Scan# 71
Delta R.T. -0.000 min
Lab File: VU054637.D
Acq: 21 Jun 2023 12:40

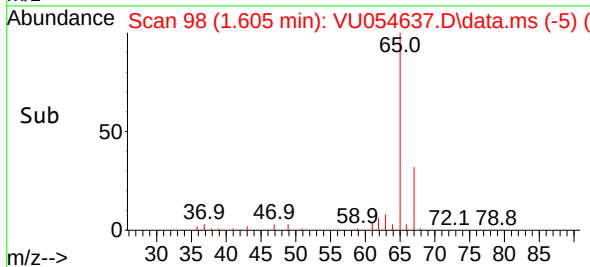
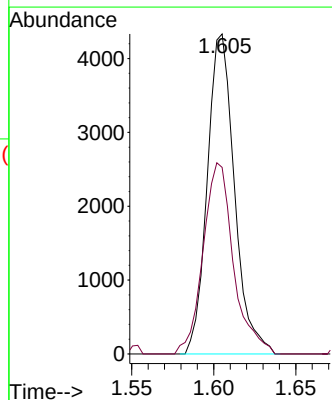
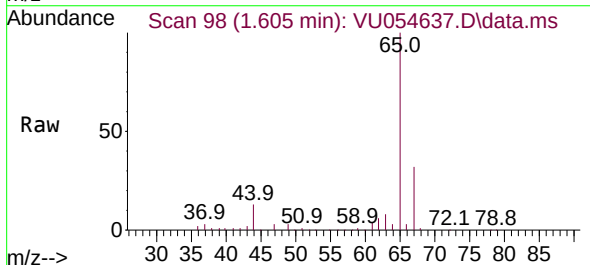
Instrument :
MSVOA_U
ClientSampleId :
VIBLK165

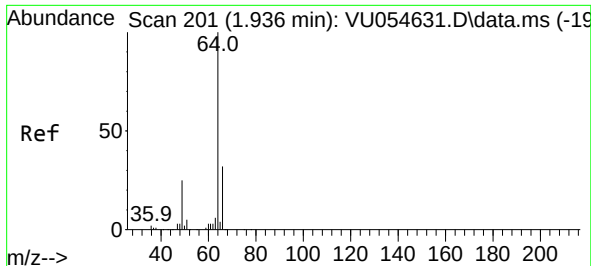
Tgt Ion: 50 Resp: 5374
Ion Ratio Lower Upper
50 100
52 35.8 23.4 43.4



#5
Vinyl chloride
Concen: 0.148 ug/L
RT: 1.605 min Scan# 98
Delta R.T. -0.000 min
Lab File: VU054637.D
Acq: 21 Jun 2023 12:40

Tgt Ion: 62 Resp: 4991
Ion Ratio Lower Upper
62 100
64 58.3 23.0 42.6#





#8

Chloroethane

Concen: 0.153 ug/L

RT: 1.933 min Scan# 201

Delta R.T. -0.003 min

Lab File: VU054637.D

Acq: 21 Jun 2023 12:40

Instrument :

MSVOA_U

ClientSampleId :

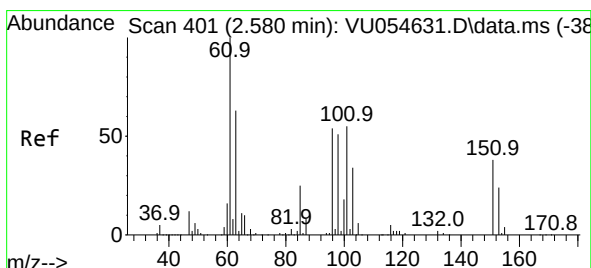
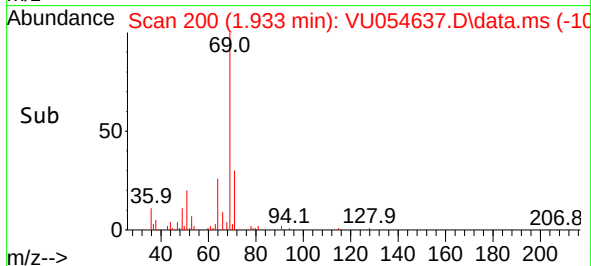
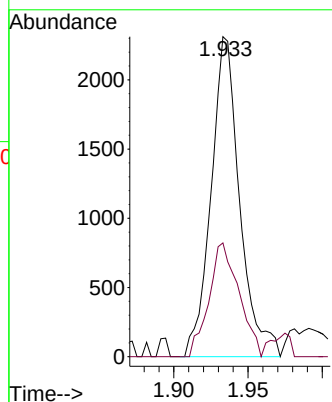
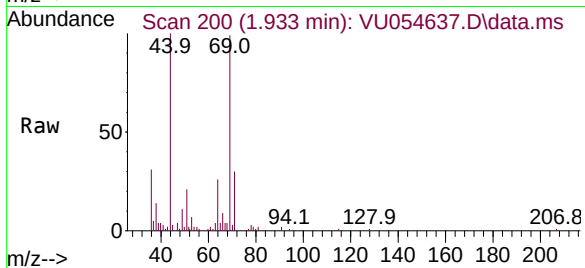
VIBLK165

Tgt Ion: 64 Resp: 3103

Ion Ratio Lower Upper

64 100

66 35.6 22.9 42.5



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.195 ug/L

RT: 2.573 min Scan# 399

Delta R.T. -0.007 min

Lab File: VU054637.D

Acq: 21 Jun 2023 12:40

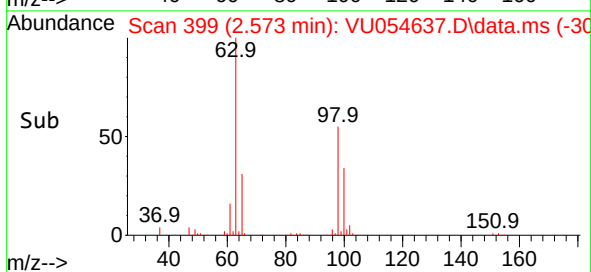
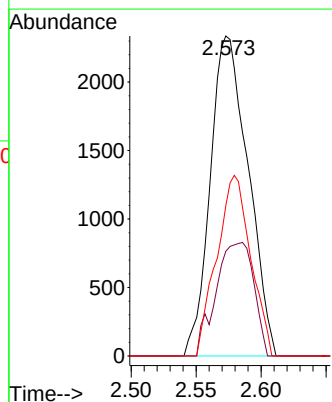
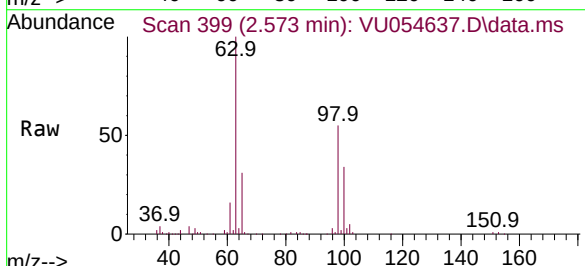
Tgt Ion:101 Resp: 4742

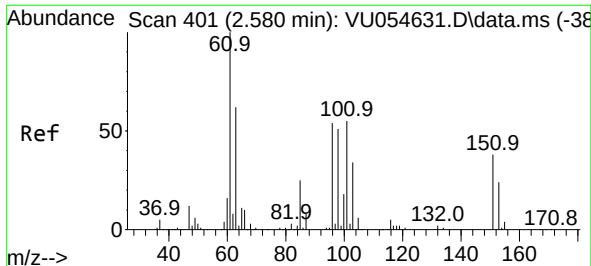
Ion Ratio Lower Upper

101 100

85 35.4 34.6 51.8

151 50.5 57.7 86.5#





#12

1,1-Dichloroethene

Concen: 0.201 ug/L

RT: 2.576 min Scan# 401

Delta R.T. -0.003 min

Lab File: VU054637.D

Acq: 21 Jun 2023 12:40

Instrument :

MSVOA_U

ClientSampleId :

VIBLK165

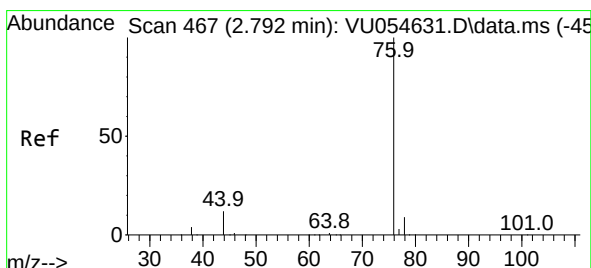
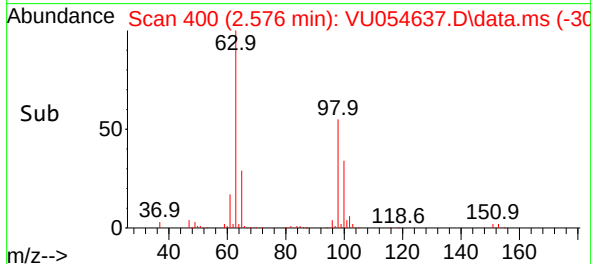
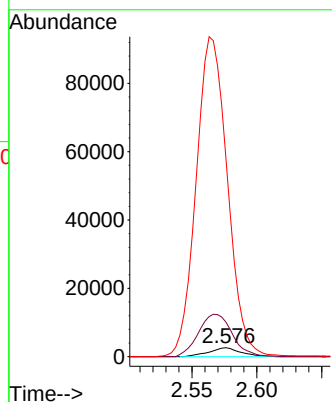
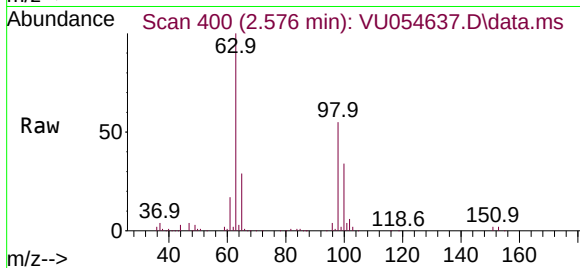
Tgt Ion: 96 Resp: 4457

Ion Ratio Lower Upper

96 100

61 388.7 119.9 222.7#

63 2236.6 64.3 119.3#



#14

Carbon disulfide

Concen: 0.143 ug/L

RT: 2.792 min Scan# 467

Delta R.T. -0.000 min

Lab File: VU054637.D

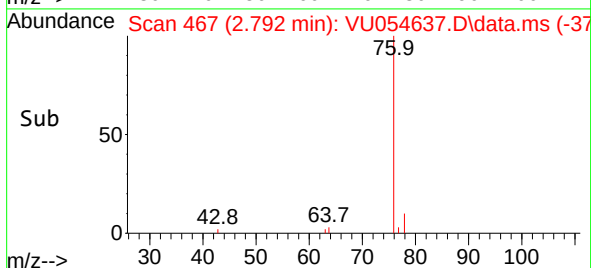
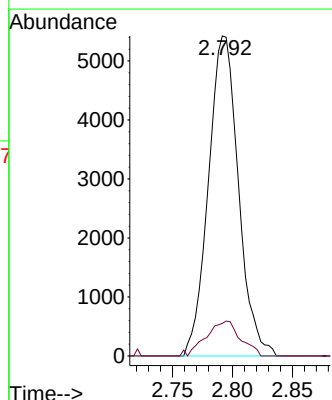
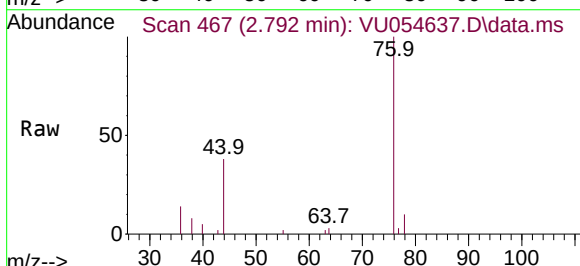
Acq: 21 Jun 2023 12:40

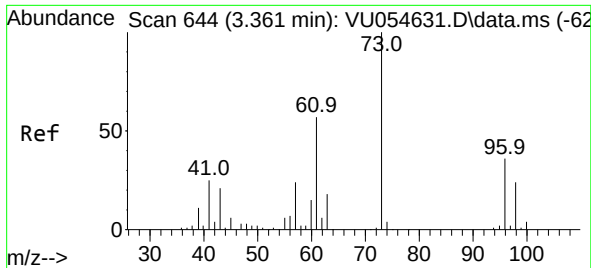
Tgt Ion: 76 Resp: 9428

Ion Ratio Lower Upper

76 100

78 10.1 7.4 11.0

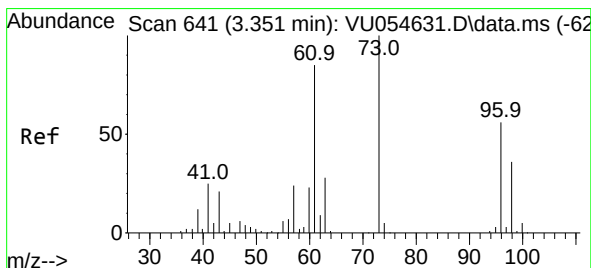
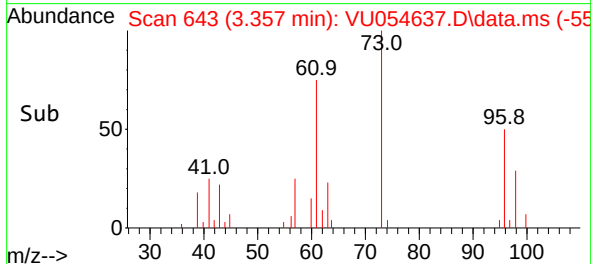
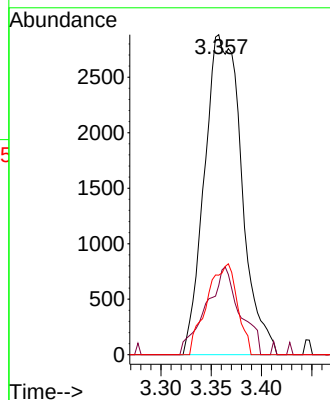
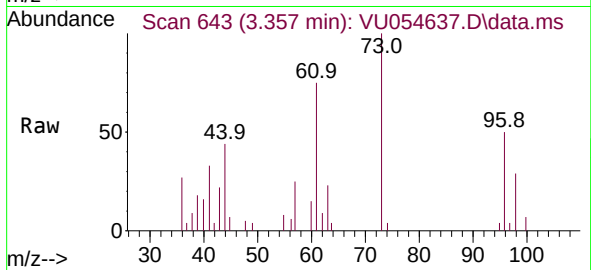




#17
Methyl tert-butyl Ether
Concen: 0.135 ug/L
RT: 3.357 min Scan# 643
Delta R.T. -0.003 min
Lab File: VU054637.D
Acq: 21 Jun 2023 12:40

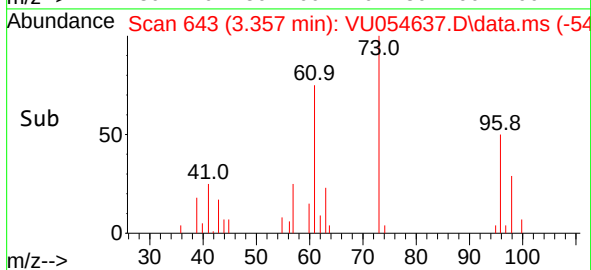
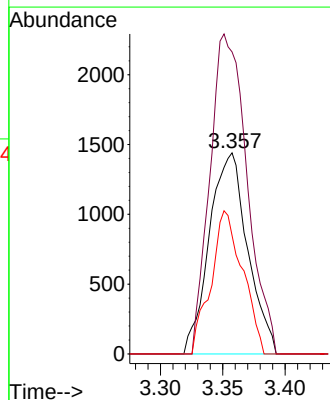
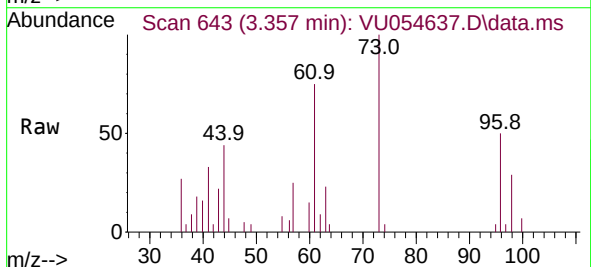
Instrument :
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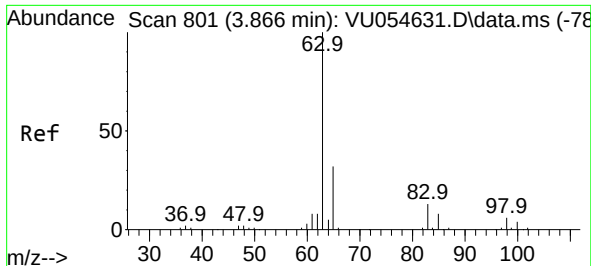
Tgt Ion: 73 Resp: 7382
Ion Ratio Lower Upper
73 100
43 25.0 15.7 23.5#
57 23.3 18.6 28.0



#18
trans-1,2-Dichloroethene
Concen: 0.134 ug/L
RT: 3.357 min Scan# 643
Delta R.T. 0.006 min
Lab File: VU054637.D
Acq: 21 Jun 2023 12:40

Tgt Ion: 96 Resp: 3077
Ion Ratio Lower Upper
96 100
61 150.2 104.6 194.2
98 58.9 45.4 84.4





#19

1,1-Dichloroethane

Concen: 0.144 ug/L

RT: 3.869 min Scan# 801

Delta R.T. 0.003 min

Lab File: VU054637.D

Acq: 21 Jun 2023 12:40

Instrument :

MSVOA_U

ClientSampleId :

VIBLK165

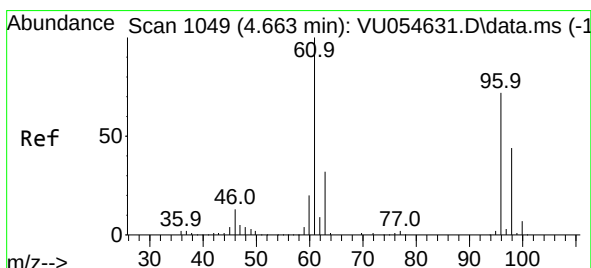
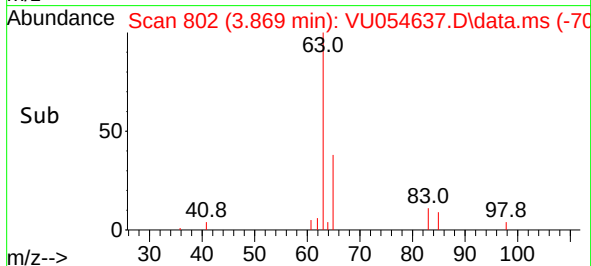
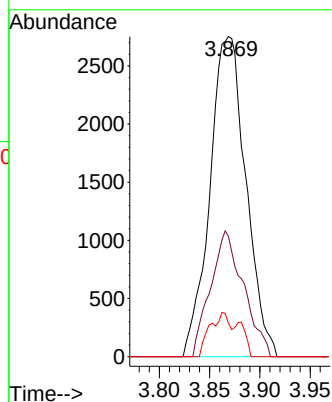
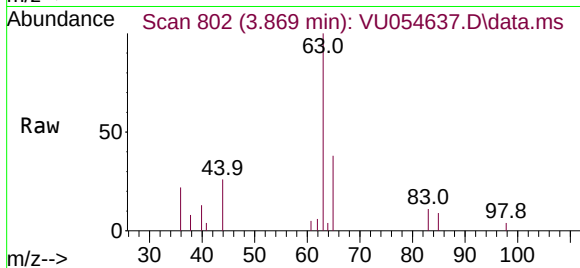
Tgt Ion: 63 Resp: 6859

Ion Ratio Lower Upper

63 100

65 37.7 22.2 41.2

83 10.5 9.0 16.6



#22

cis-1,2-Dichloroethene

Concen: 0.600 ug/L

RT: 4.663 min Scan# 1049

Delta R.T. -0.000 min

Lab File: VU054637.D

Acq: 21 Jun 2023 12:40

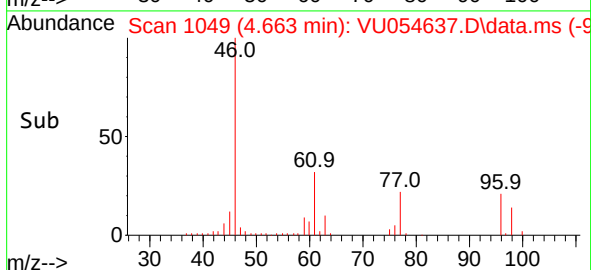
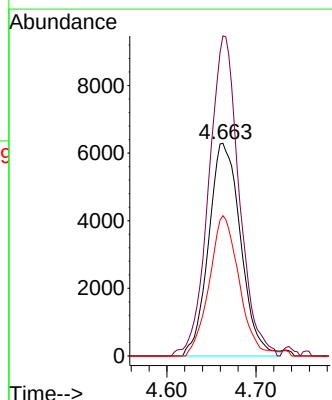
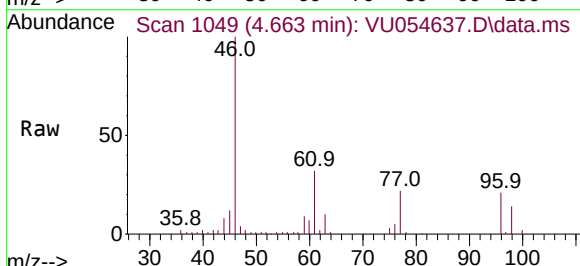
Tgt Ion: 96 Resp: 15679

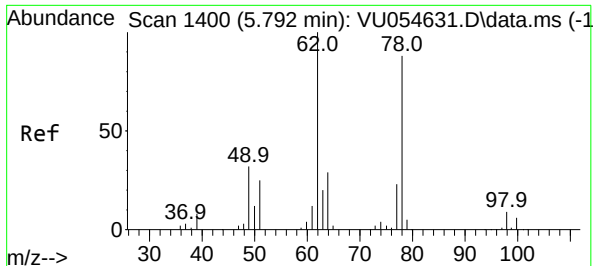
Ion Ratio Lower Upper

96 100

61 150.5 96.5 179.1

98 66.0 44.9 83.3





#27

1,2-Dichloroethane

Concen: 0.144 ug/L

RT: 5.795 min Scan# 1400

Delta R.T. 0.003 min

Lab File: VU054637.D

Acq: 21 Jun 2023 12:40

Instrument :

MSVOA_U

ClientSampleId :

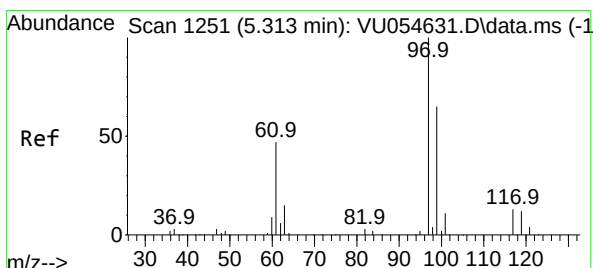
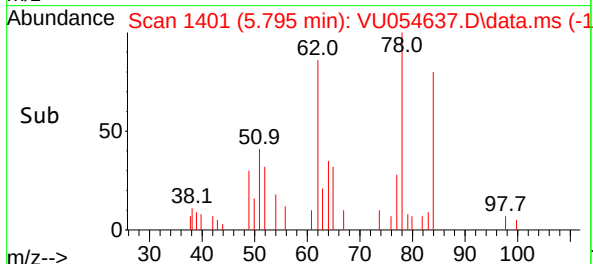
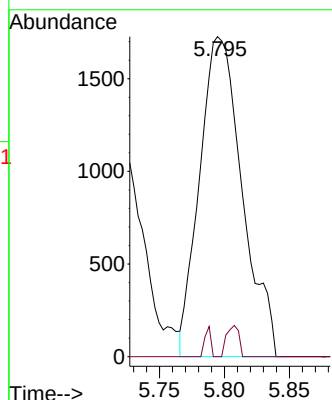
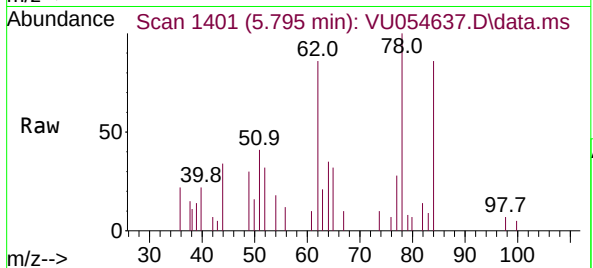
VIBLK165

Tgt Ion: 62 Resp: 3941

Ion Ratio Lower Upper

62 100

98 0.0 7.8 11.6#



#29

1,1,1-Trichloroethane

Concen: 0.135 ug/L

RT: 5.319 min Scan# 1253

Delta R.T. 0.006 min

Lab File: VU054637.D

Acq: 21 Jun 2023 12:40

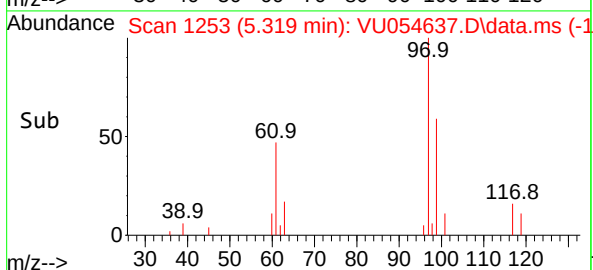
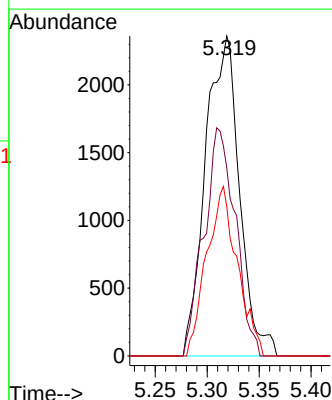
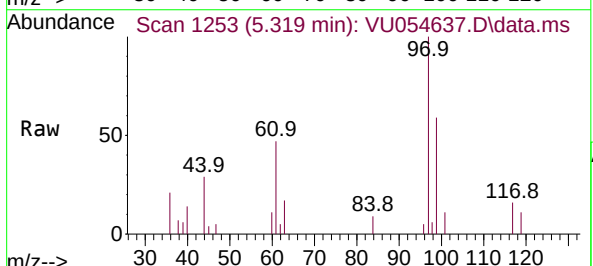
Tgt Ion: 97 Resp: 5372

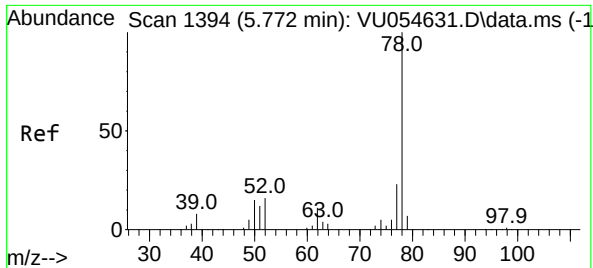
Ion Ratio Lower Upper

97 100

99 65.8 50.8 76.2

61 47.8 36.1 54.1





#33

Benzene

Concen: 0.138 ug/L

RT: 5.769 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU054637.D

Acq: 21 Jun 2023 12:40

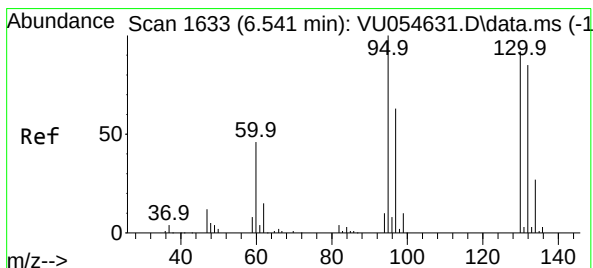
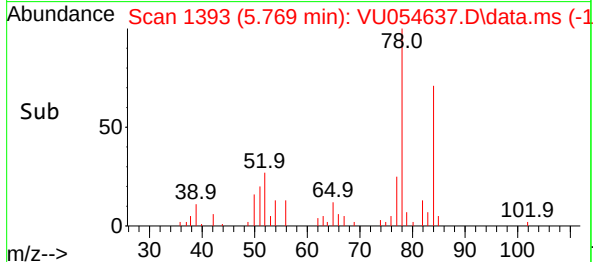
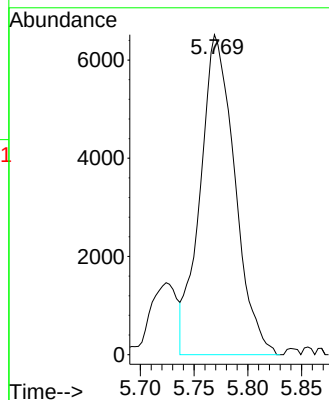
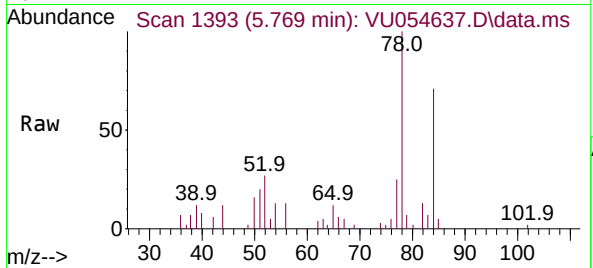
Instrument :

MSVOA_U

ClientSampleId :

VIBLK165

Tgt Ion: 78 Resp: 14569



#34

Trichloroethene

Concen: 2.741 ug/L

RT: 6.541 min Scan# 1633

Delta R.T. -0.000 min

Lab File: VU054637.D

Acq: 21 Jun 2023 12:40

Tgt Ion: 95 Resp: 76701

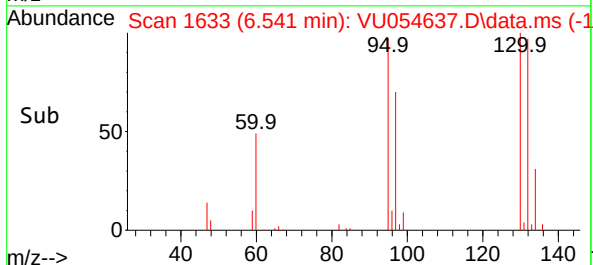
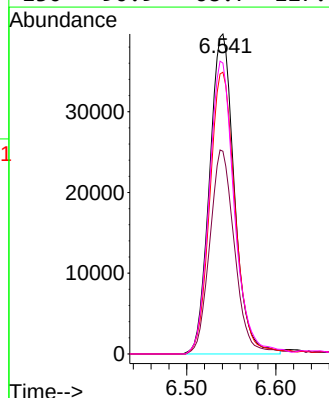
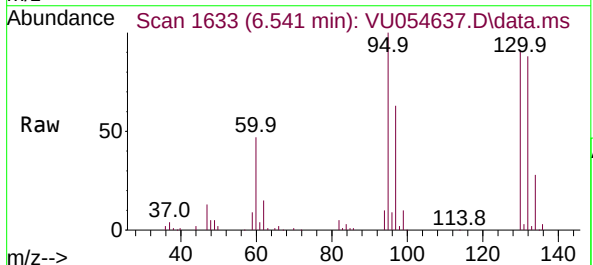
Ion Ratio Lower Upper

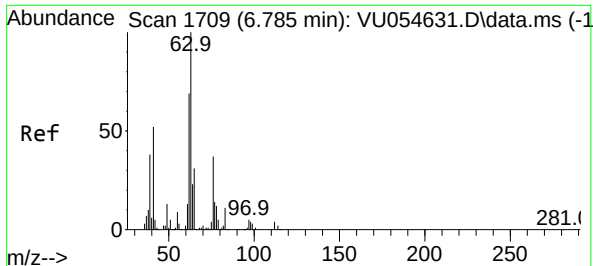
95 100

97 63.4 46.8 87.0

132 88.1 68.4 127.0

130 90.9 68.7 127.5

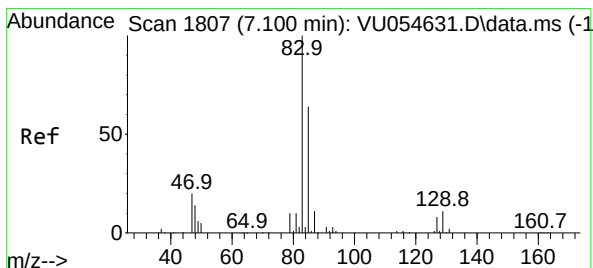
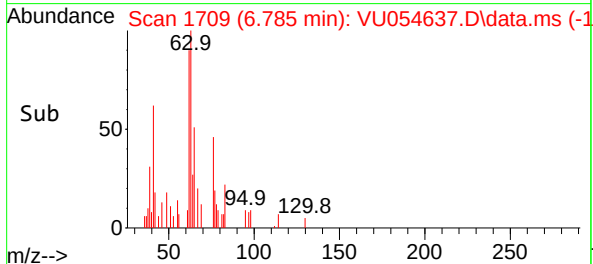
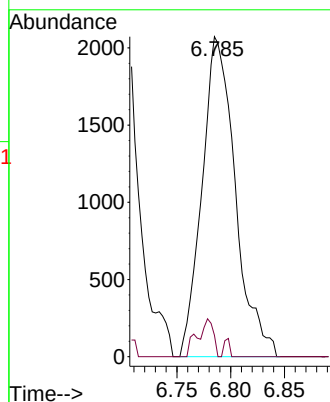
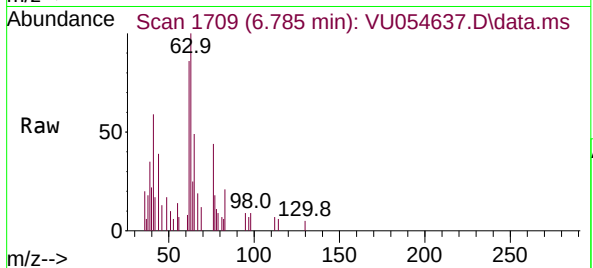




#37
1,2-Dichloropropane
Concen: 0.156 ug/L
RT: 6.785 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU054637.D
Acq: 21 Jun 2023 12:40

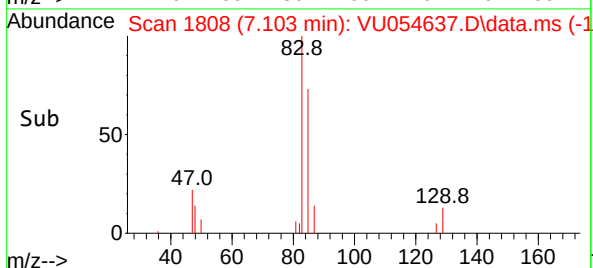
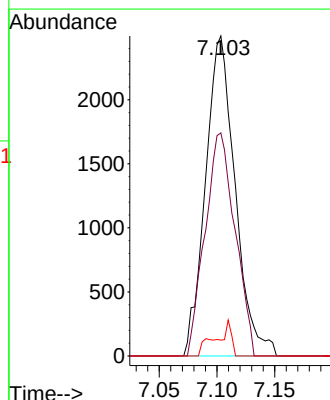
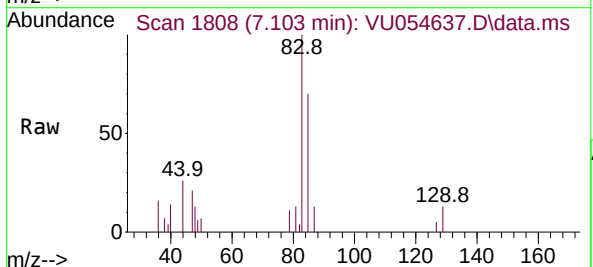
Instrument :
MSVOA_U
ClientSampleId :
VIBLK165

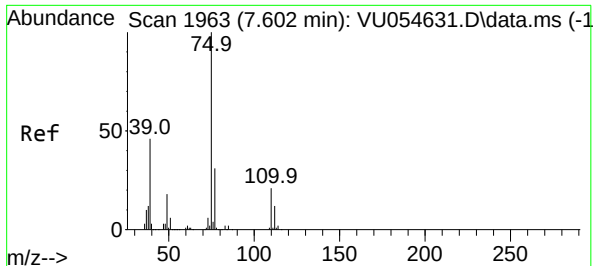
Tgt Ion: 63 Resp: 4460
Ion Ratio Lower Upper
63 100
112 3.4 3.0 4.6



#38
Bromodichloromethane
Concen: 0.138 ug/L
RT: 7.103 min Scan# 1808
Delta R.T. 0.003 min
Lab File: VU054637.D
Acq: 21 Jun 2023 12:40

Tgt Ion: 83 Resp: 4466
Ion Ratio Lower Upper
83 100
85 69.7 44.1 81.9
127 5.0 6.6 10.0#





#39

cis-1,3-Dichloropropene

Concen: 0.130 ug/L

RT: 7.605 min Scan# 1963

Delta R.T. 0.003 min

Lab File: VU054637.D

Acq: 21 Jun 2023 12:40

Instrument :

MSVOA_U

ClientSampleId :

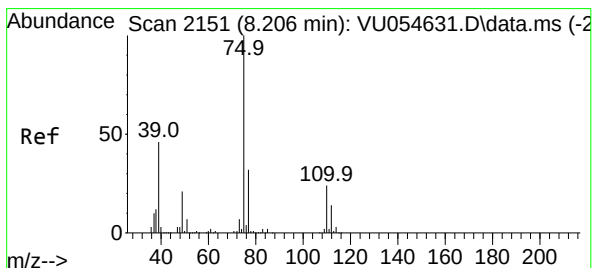
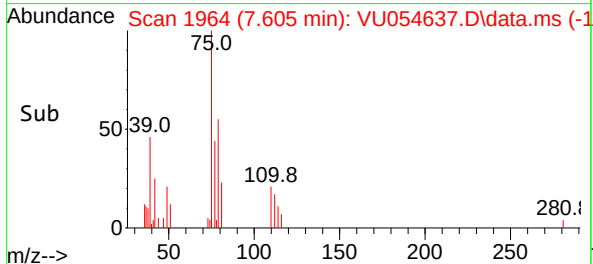
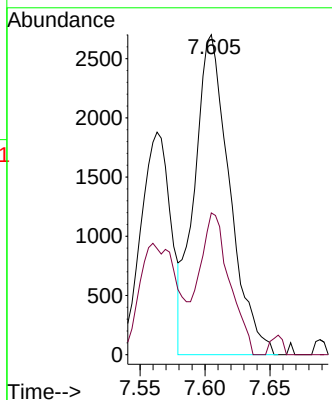
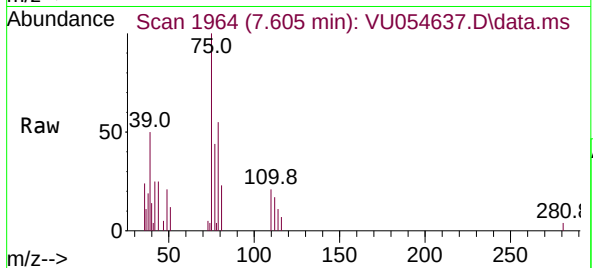
VIBLK165

Tgt Ion: 75 Resp: 5089

Ion Ratio Lower Upper

75 100

77 44.3 22.3 41.5#



#44

trans-1,3-Dichloropropene

Concen: 0.156 ug/L

RT: 8.213 min Scan# 2153

Delta R.T. 0.006 min

Lab File: VU054637.D

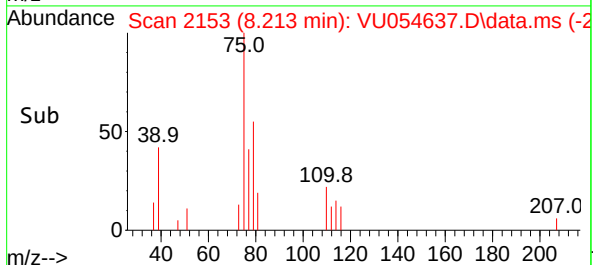
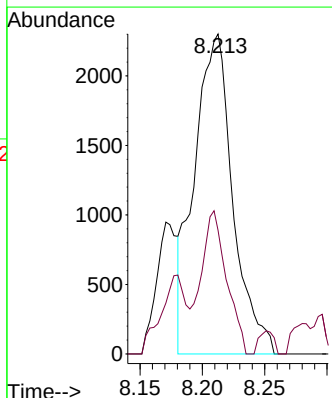
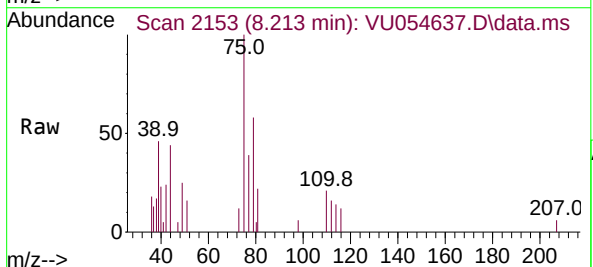
Acq: 21 Jun 2023 12:40

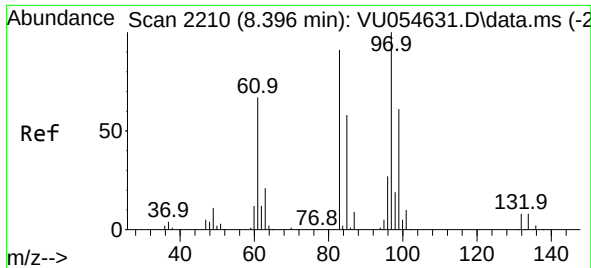
Tgt Ion: 75 Resp: 4941

Ion Ratio Lower Upper

75 100

77 38.7 21.3 39.6

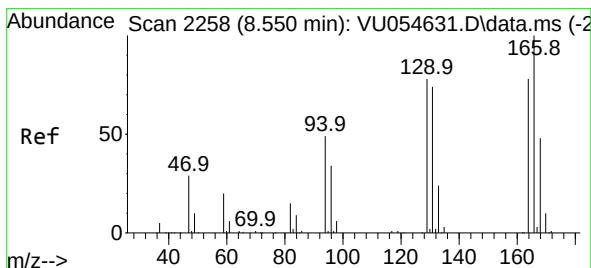
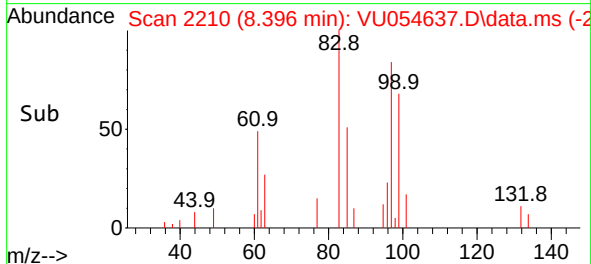
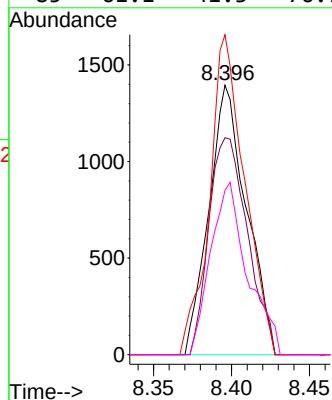
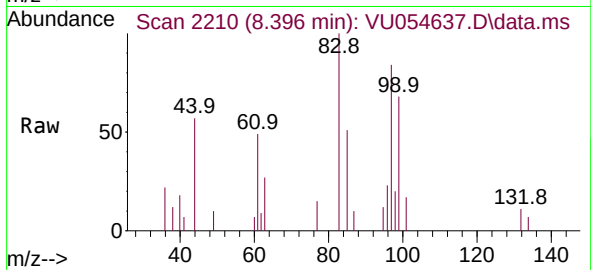




#45
1,1,2-Trichloroethane
Concen: 0.128 ug/L
RT: 8.396 min Scan# 2110
Delta R.T. -0.000 min
Lab File: VU054637.D
Acq: 21 Jun 2023 12:40

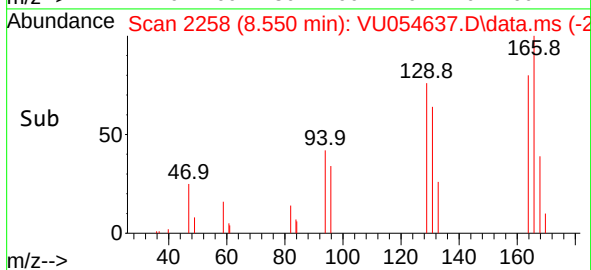
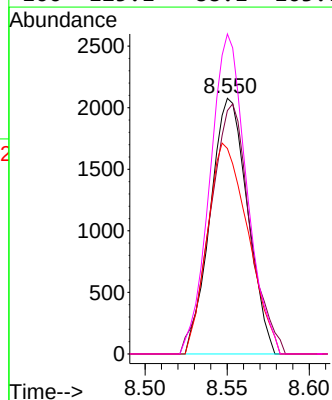
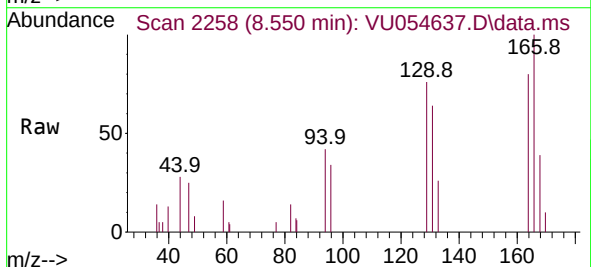
Instrument :
MSVOA_U
ClientSampleId :
VIBLK165

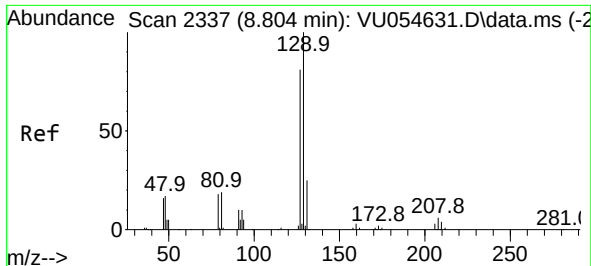
Tgt Ion: 97	Resp: 2335
Ion Ratio	Lower Upper
97 100	
99 80.5	43.0 80.0#
83 118.8	63.8 118.6#
85 61.1	41.3 76.7



#47
Tetrachloroethene
Concen: 0.153 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. -0.000 min
Lab File: VU054637.D
Acq: 21 Jun 2023 12:40

Tgt Ion:164	Resp: 3278
Ion Ratio	Lower Upper
164 100	
129 95.1	67.7 125.7
131 80.3	64.6 120.0
166 125.1	88.1 163.7





#49

Dibromochloromethane

Concen: 0.157 ug/L

RT: 8.807 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU054637.D

Acq: 21 Jun 2023 12:40

Instrument :

MSVOA_U

ClientSampleId :

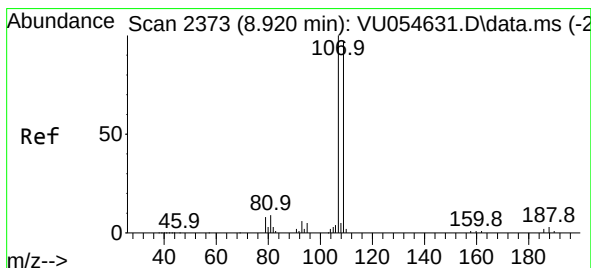
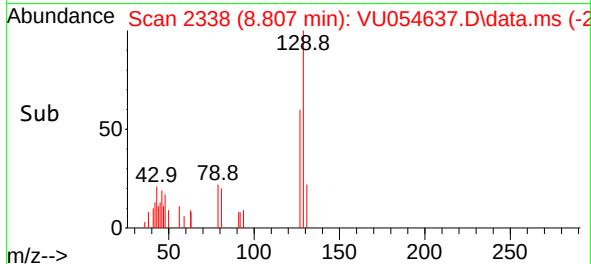
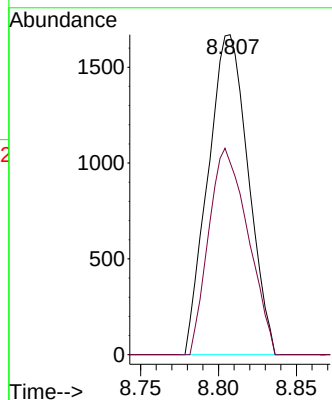
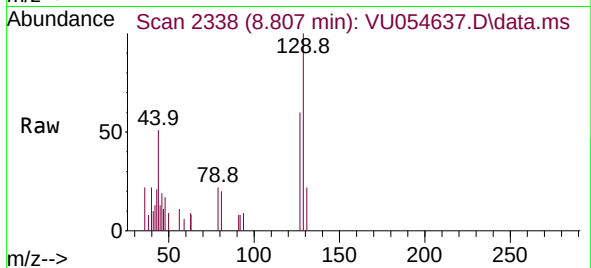
VIBLK165

Tgt Ion:129 Resp: 2992

Ion Ratio Lower Upper

129 100

127 60.1 53.2 98.8



#50

1,2-Dibromoethane

Concen: 0.140 ug/L

RT: 8.920 min Scan# 2373

Delta R.T. -0.000 min

Lab File: VU054637.D

Acq: 21 Jun 2023 12:40

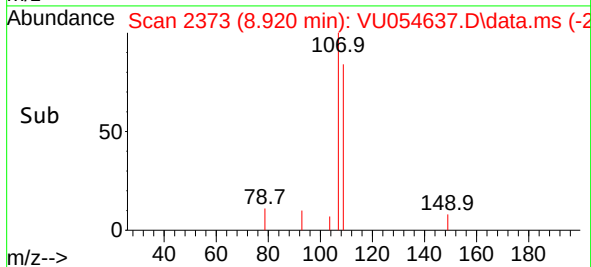
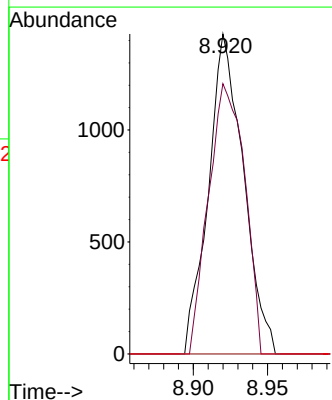
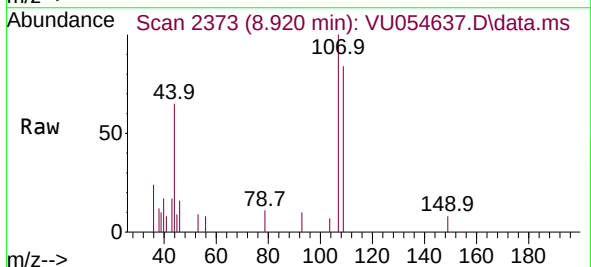
Tgt Ion:107 Resp: 2342

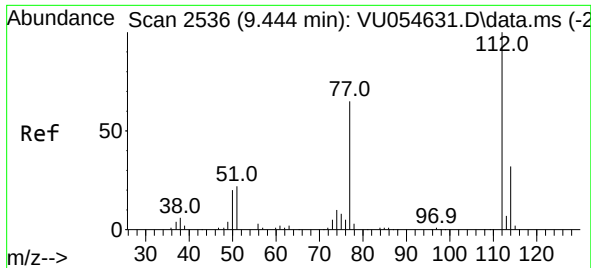
Ion Ratio Lower Upper

107 100

109 84.5 66.6 123.6

188 0.0 3.1 4.7#

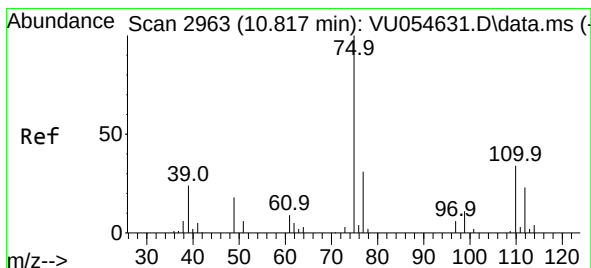
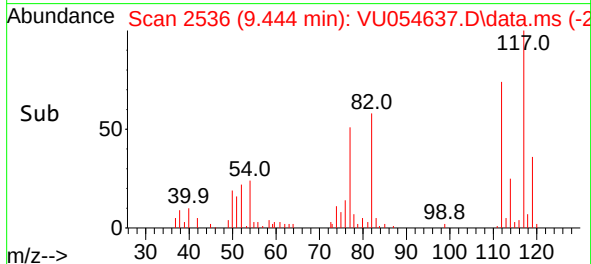
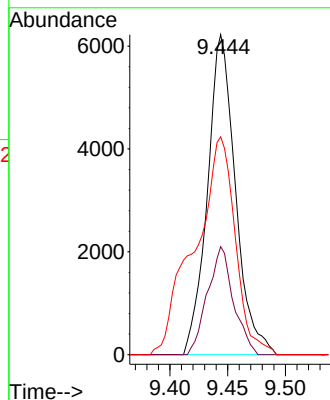
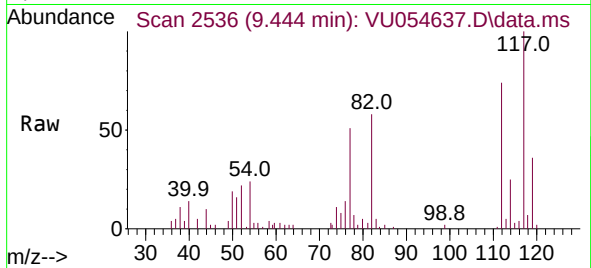




#51
Chlorobenzene
Concen: 0.154 ug/L
RT: 9.444 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU054637.D
Acq: 21 Jun 2023 12:40

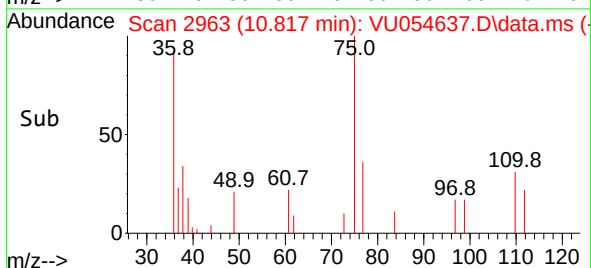
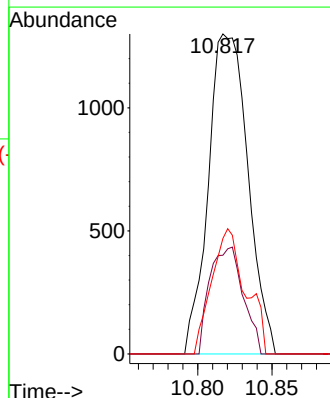
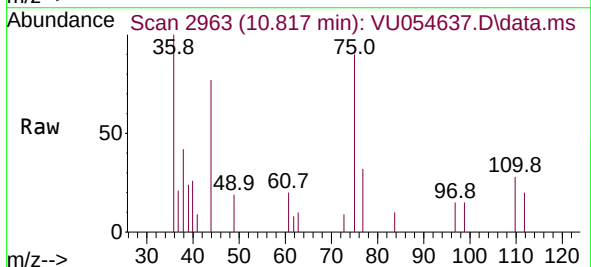
Instrument :
MSVOA_U
ClientSampleId :
VIBLK165

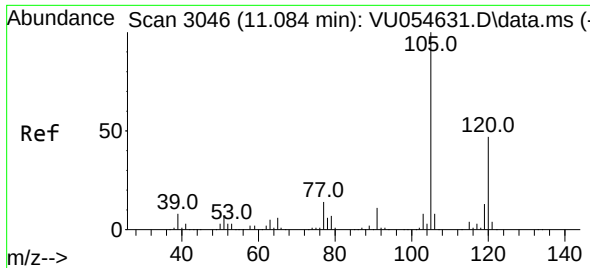
Tgt Ion:	112	Resp:	10493
Ion Ratio	Lower	Upper	
112	100		
114	33.7	22.7	42.1
77	68.1	49.8	74.8



#61
1,2,3-Trichloropropane
Concen: 0.172 ug/L
RT: 10.817 min Scan# 2963
Delta R.T. -0.000 min
Lab File: VU054637.D
Acq: 21 Jun 2023 12:40

Tgt Ion:	75	Resp:	2413
Ion Ratio	Lower	Upper	
75	100		
110	28.2	28.0	42.0
77	33.6	25.4	38.2

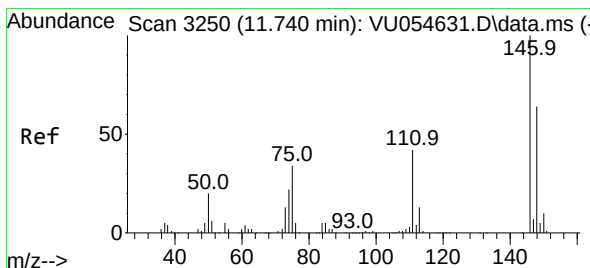
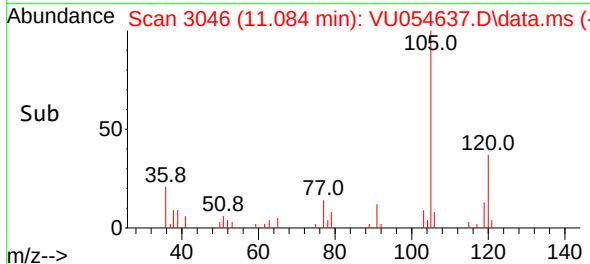
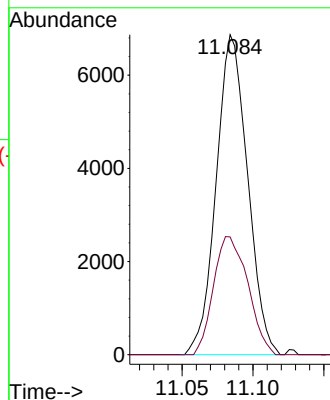
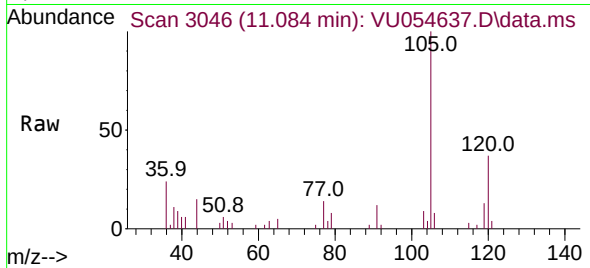




#62
1,3,5-Trimethylbenzene
Concen: 0.128 ug/L
RT: 11.084 min Scan# 3046
Delta R.T. -0.000 min
Lab File: VU054637.D
Acq: 21 Jun 2023 12:40

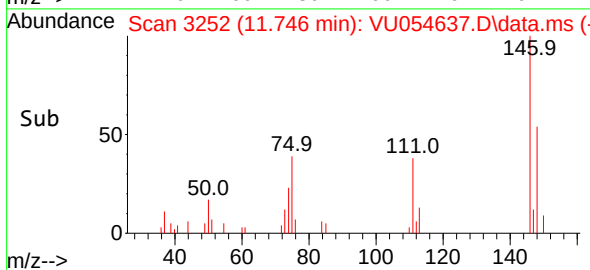
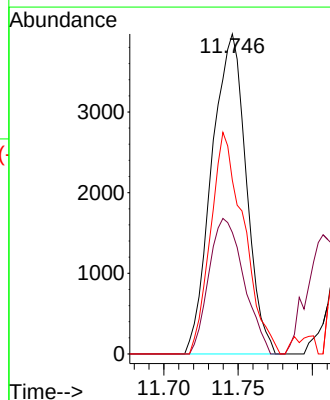
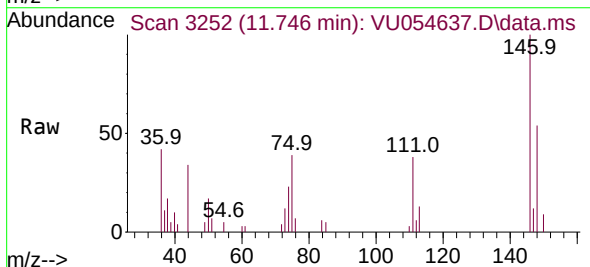
Instrument :
MSVOA_U
ClientSampleId :
VIBLK165

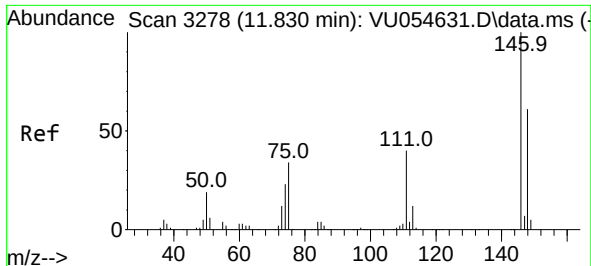
Tgt Ion:105 Resp: 10593
Ion Ratio Lower Upper
105 100
120 40.3 37.9 56.9



#64
1,3-Dichlorobenzene
Concen: 0.135 ug/L
RT: 11.746 min Scan# 3252
Delta R.T. 0.006 min
Lab File: VU054637.D
Acq: 21 Jun 2023 12:40

Tgt Ion:146 Resp: 6381
Ion Ratio Lower Upper
146 100
111 37.9 28.9 53.7
148 54.2 44.0 81.8

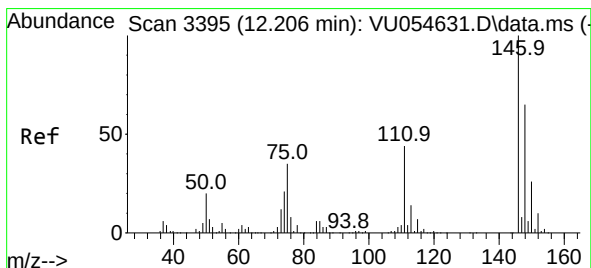
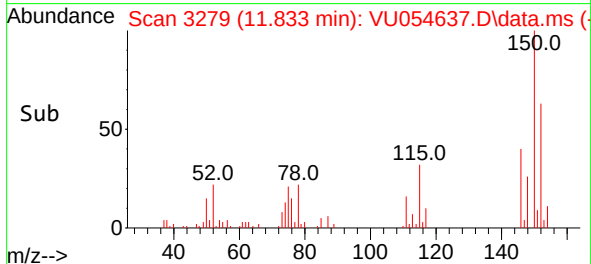
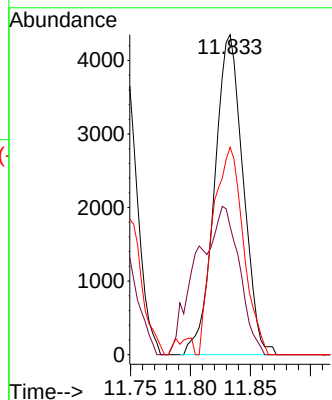
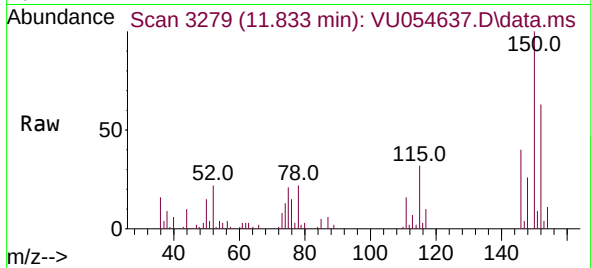




#65
1,4-Dichlorobenzene
Concen: 0.152 ug/L
RT: 11.833 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU054637.D
Acq: 21 Jun 2023 12:40

Instrument :
MSVOA_U
ClientSampleId :
VIBLK165

Tgt Ion:146 Resp: 7202
Ion Ratio Lower Upper
146 100
111 40.0 28.0 52.0
148 64.8 44.7 83.1



#67
1,2-Dichlorobenzene
Concen: 0.157 ug/L
RT: 12.209 min Scan# 3396
Delta R.T. 0.003 min
Lab File: VU054637.D
Acq: 21 Jun 2023 12:40

Tgt Ion:146 Resp: 6856
Ion Ratio Lower Upper
146 100
111 55.5 34.5 51.7#
148 64.2 50.9 76.3

