

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102622\
 Data File : VU051502.D
 Acq On : 26 Oct 2022 15:09
 Operator : JC/MD
 Sample : N5270-04
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BHAC8

Quant Time: Oct 27 05:35:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100722WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 27 05:28:43 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	266283	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	273900	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	151611	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.594	65	94961	4.421	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.400%
7) Chloroethane-d5	1.909	69	86447	4.684	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.600%
11) 1,1-Dichloroethene-d2	2.559	65	36836	4.338	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.800%
20) 2-Butanone-d5	4.642	46	202530	42.826	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.660%
24) Chloroform-d	5.060	84	158827	3.966	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.400%
26) 1,2-Dichloroethane-d4	5.707	65	82456	3.993	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.800%
32) Benzene-d6	5.729	84	337746	4.482	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.600%
36) 1,2-Dichloropropane-d6	6.690	67	104634	4.089	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	81.800%
41) Toluene-d8	7.896	98	285371	4.233	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.600%
43) trans-1,3-Dichloroprop...	8.179	79	33260	3.956	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.200%
46) 2-Hexanone-d5	8.636	63	165844	58.529	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	117.060%
56) 1,1,2,2-Tetrachloroeth...	10.755	84	95339	4.664	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.200%
66) 1,2-Dichlorobenzene-d4	12.192	152	115866	4.397	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.597	62	69411	2.320	ug/L	99
8) Chloroethane	1.929	64	59498	3.119	ug/L	87
10) 1,1,2-Trichloro-1,2,2-...	2.559	101	1339	0.065	ug/L #	21
13) Acetone	2.652	43	60011	16.919	ug/L	94
15) Methyl Acetate	3.076	43	4437	0.515	ug/L #	63
17) Methyl tert-butyl Ether	3.363	73	9496	0.213	ug/L #	1
18) trans-1,2-Dichloroethene	3.353	96	8877	0.435	ug/L	88
19) 1,1-Dichloroethane	3.867	63	16074	0.381	ug/L	98
21) 2-Butanone	4.729	43	13776	2.464	ug/L	85
22) cis-1,2-Dichloroethene	4.665	96	55858	2.468	ug/L	97
27) 1,2-Dichloroethane	5.781	62	543137	20.591	ug/L #	74
30) Cyclohexane	5.385	56	346708	12.455	ug/L	99
34) Trichloroethene	6.539	95	6537	0.287	ug/L	93
35) Methylcyclohexane	6.761	83	139613	4.851	ug/L	98
38) Bromodichloromethane	7.157	83	7879	0.264	ug/L #	29
42) Toluene	7.967	91	252139	2.598	ug/L	98
45) 1,1,2-Trichloroethane	8.369	97	4026	0.229	ug/L #	19
51) Chlorobenzene	9.446	112	8244104	142.156	ug/L	99
53) m,p-Xylene	9.575	106	8225051	243.146	ug/L	73

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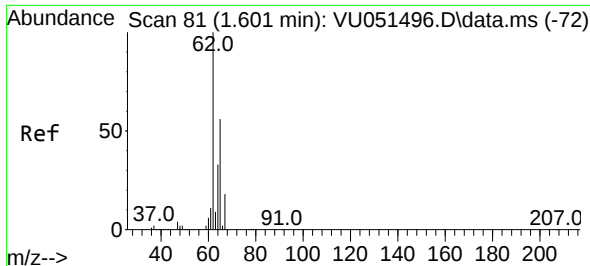
Instrument :
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 ClientSampleId :
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Quant Time: Oct 27 05:35:12 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100722WMA.M
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 Response via : Initial Calibration

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

54) o-Xylene	10.102	106	5605309	175.126	ug/L	96
55) Styrene	10.102	104	268275	4.869	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.800	83	42963	1.972	ug/L #	33
60) Isopropylbenzene	10.485	105	4826900	50.266	ug/L	98
61) 1,2,3-Trichloropropane	10.485	75	51678	2.699	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.086	105	1475614	57.927	ug/L	98
63) 1,2,4-Trimethylbenzene	11.468	105	8366036	116.128	ug/L	100
64) 1,3-Dichlorobenzene	11.745	146	12556	0.264	ug/L	94
65) 1,4-Dichlorobenzene	11.835	146	222071	4.743	ug/L	98
67) 1,2-Dichlorobenzene	12.211	146	116383	2.520	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.970	75	3054	0.834	ug/L #	5
71) Naphthalene	14.082	128	474828	10.978	ug/L	97

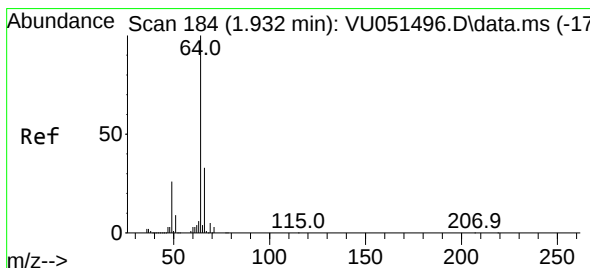
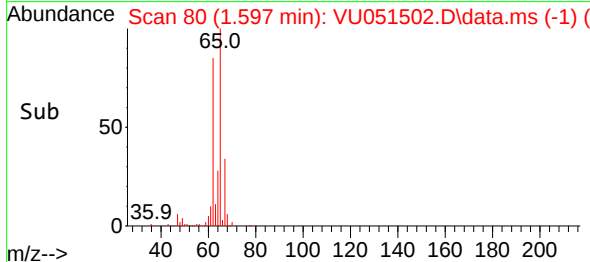
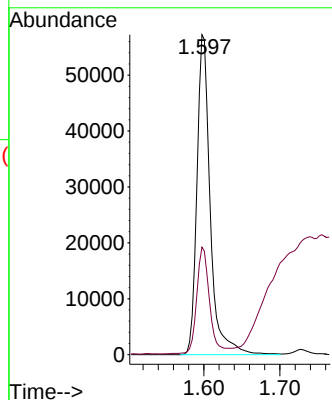
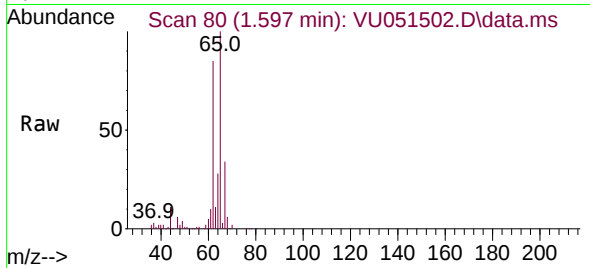
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#5
 Vinyl chloride
 Concen: 2.320 ug/L
 RT: 1.597 min Scan# 80
 Delta R.T. -0.003 min
 Lab File: VU051502.D
 Acq: 26 Oct 2022 15:09

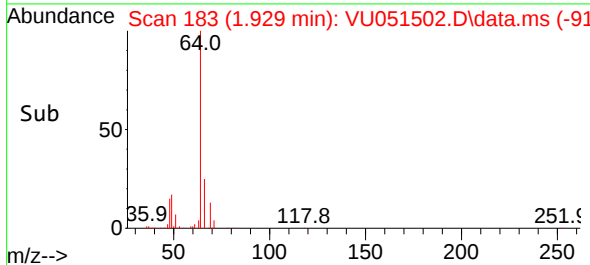
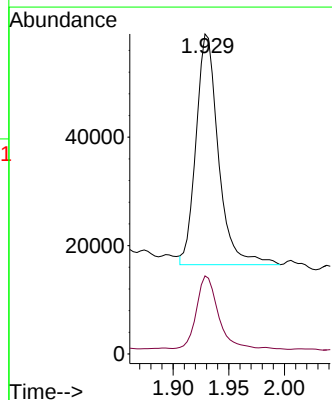
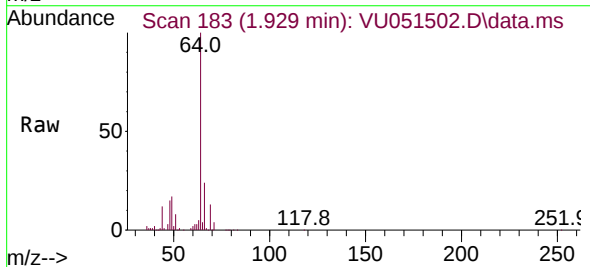
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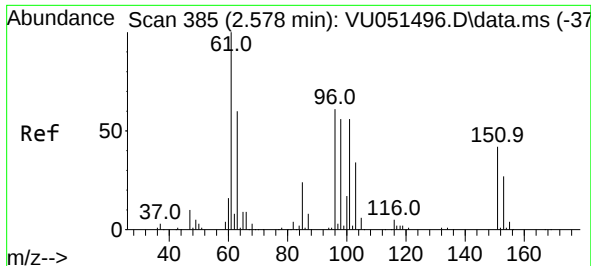
Tgt Ion: 62 Resp: 69411
 Ion Ratio Lower Upper
 62 100
 64 33.6 24.0 44.6



#8
 Chloroethane
 Concen: 3.119 ug/L
 RT: 1.929 min Scan# 183
 Delta R.T. -0.003 min
 Lab File: VU051502.D
 Acq: 26 Oct 2022 15:09

Tgt Ion: 64 Resp: 59498
 Ion Ratio Lower Upper
 64 100
 66 24.4 22.3 41.3

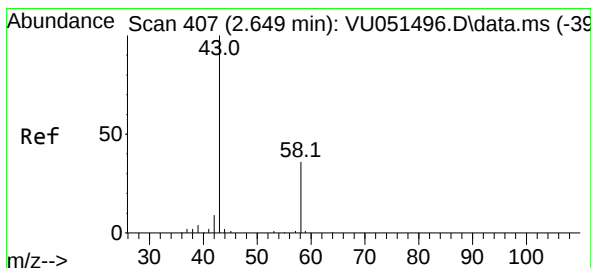
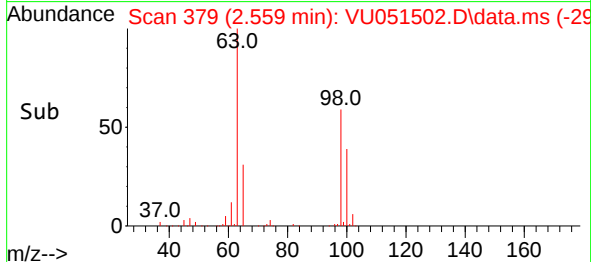
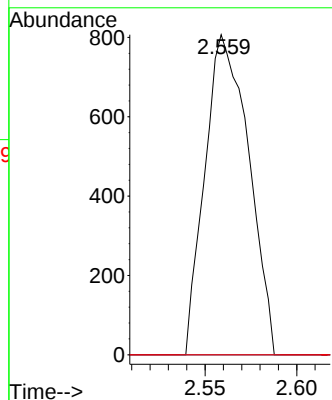
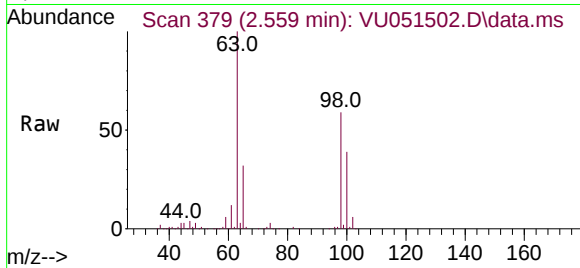




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.065 ug/L
RT: 2.559 min Scan# 31
Delta R.T. -0.019 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

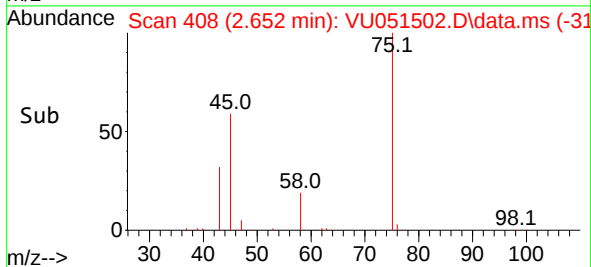
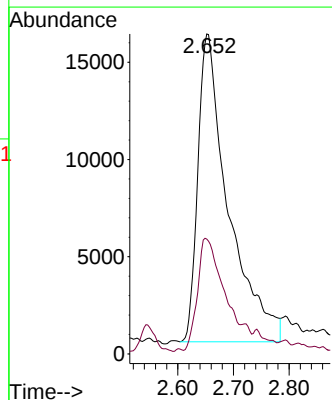
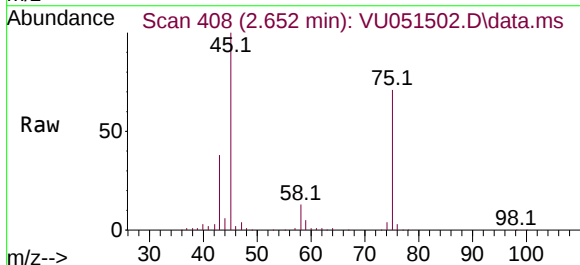
Instrument :
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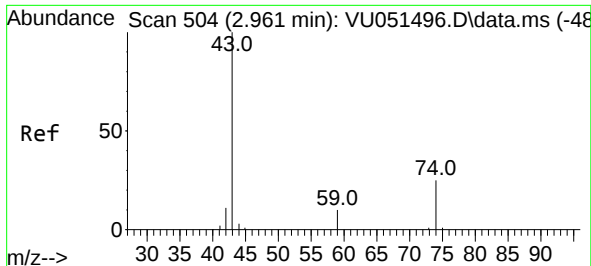
Tgt Ion:101 Resp: 1339
Ion Ratio Lower Upper
101 100
85 0.0 34.6 51.8#
151 0.0 56.5 84.7#



#13
Acetone
Concen: 16.919 ug/L
RT: 2.652 min Scan# 408
Delta R.T. 0.003 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

Tgt Ion: 43 Resp: 60011
Ion Ratio Lower Upper
43 100
58 31.2 0.0 68.8

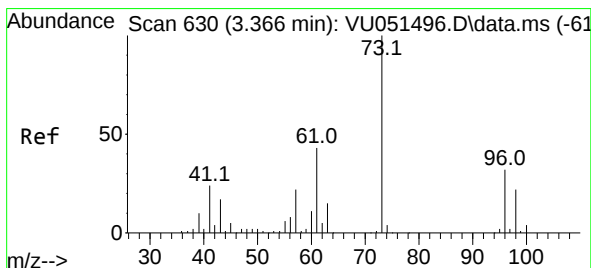
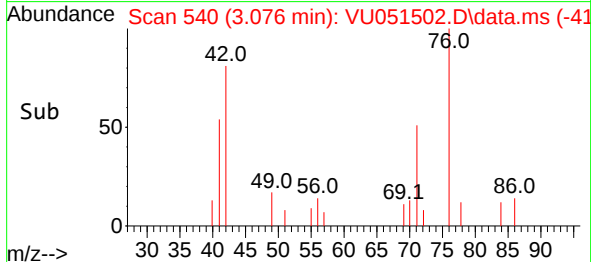
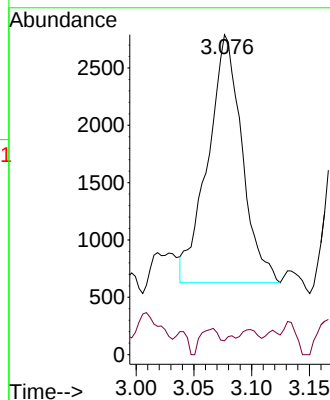
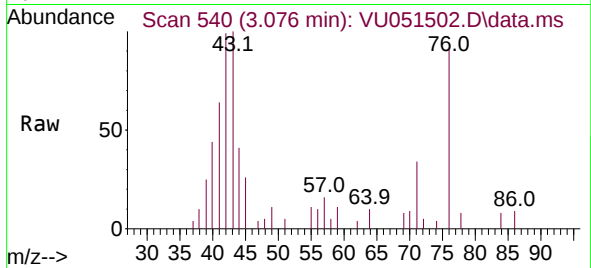




#15
Methyl Acetate
Concen: 0.515 ug/L
RT: 3.076 min Scan# 54
Delta R.T. 0.116 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

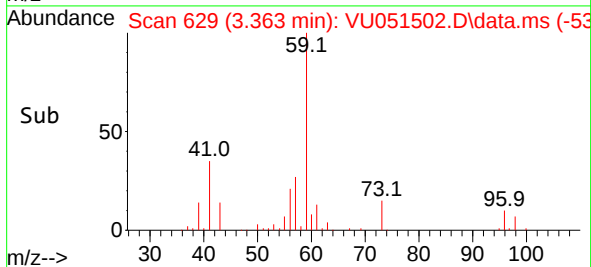
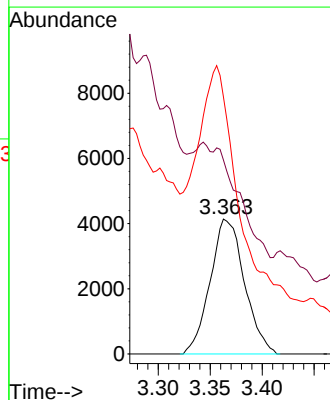
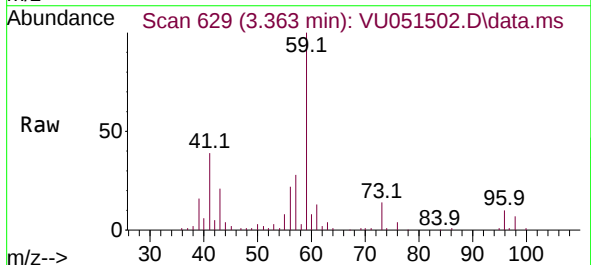
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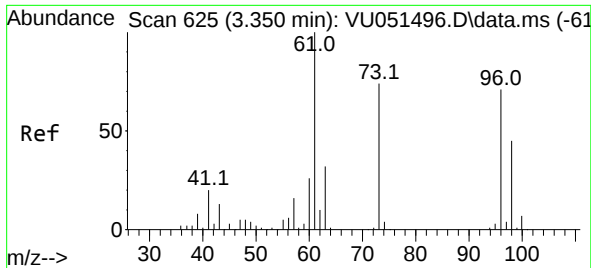
Tgt Ion: 43 Resp: 4437
Ion Ratio Lower Upper
43 100
74 6.2 20.0 30.0#



#17
Methyl tert-butyl Ether
Concen: 0.213 ug/L
RT: 3.363 min Scan# 629
Delta R.T. -0.003 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

Tgt Ion: 73 Resp: 9496
Ion Ratio Lower Upper
73 100
43 0.0 15.4 23.0#
57 228.9 18.9 28.3#

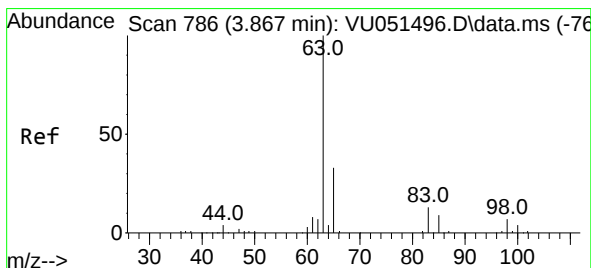
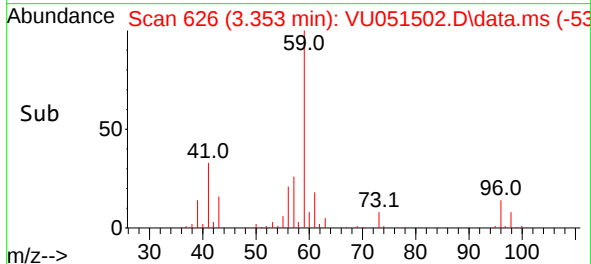
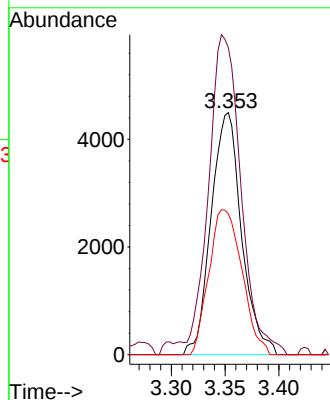
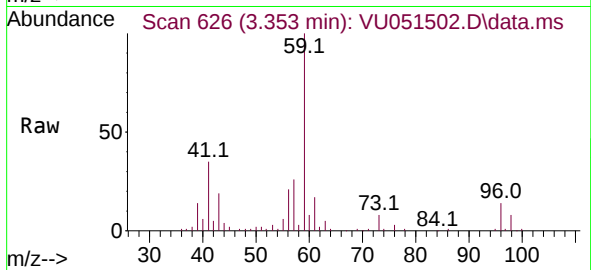




#18
trans-1,2-Dichloroethene
Concen: 0.435 ug/L
RT: 3.353 min Scan# 61
Delta R.T. 0.003 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

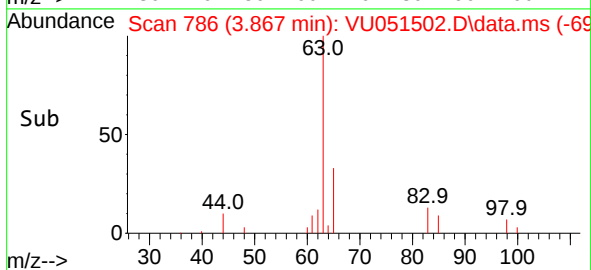
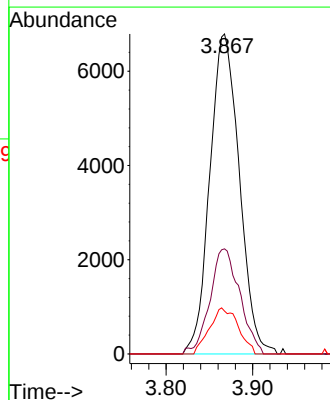
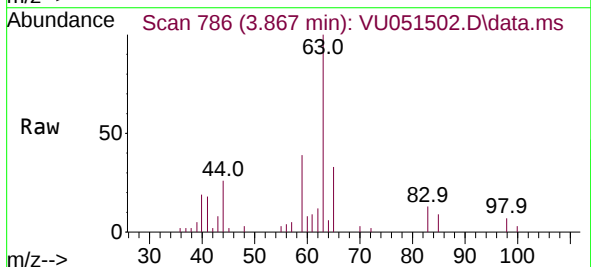
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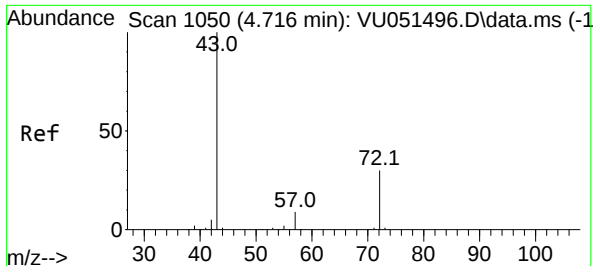
Tgt Ion: 96 Resp: 8877
Ion Ratio Lower Upper
96 100
61 126.9 101.4 188.2
98 58.3 44.9 83.5



#19
1,1-Dichloroethane
Concen: 0.381 ug/L
RT: 3.867 min Scan# 786
Delta R.T. -0.000 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

Tgt Ion: 63 Resp: 16074
Ion Ratio Lower Upper
63 100
65 32.8 22.0 41.0
83 13.4 9.0 16.6





#21

2-Butanone

Concen: 2.464 ug/L

RT: 4.729 min Scan# 1054

Delta R.T. 0.013 min

Lab File: VU051502.D

Acq: 26 Oct 2022 15:09

Instrument :

MSVOA_U

ClientSampleId :

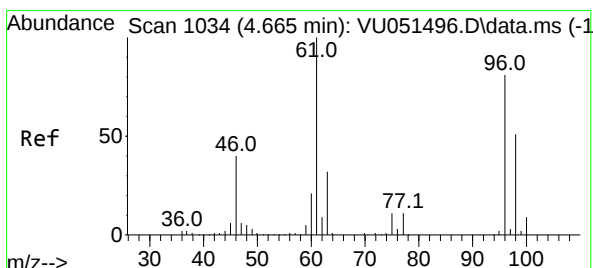
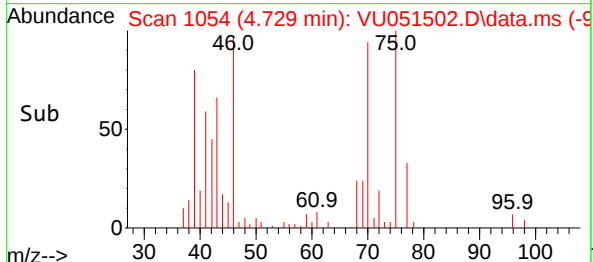
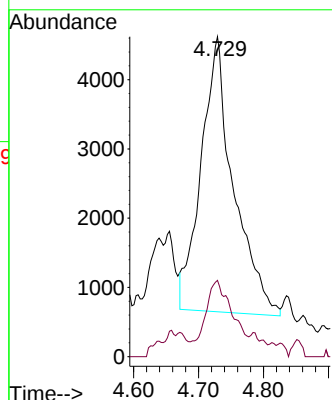
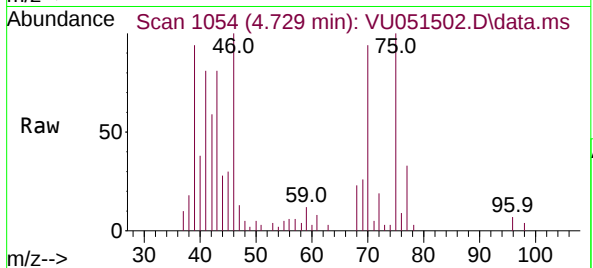
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Tgt Ion: 43 Resp: 13776

Ion Ratio Lower Upper

43 100

72 19.7 13.8 41.4



#22

cis-1,2-Dichloroethene

Concen: 2.468 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. -0.000 min

Lab File: VU051502.D

Acq: 26 Oct 2022 15:09

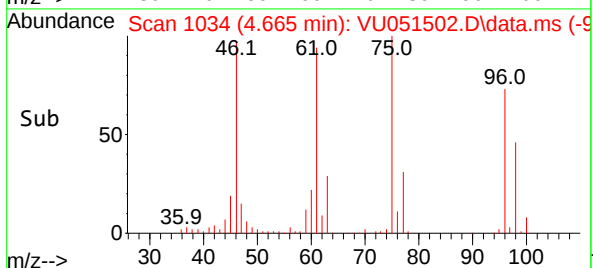
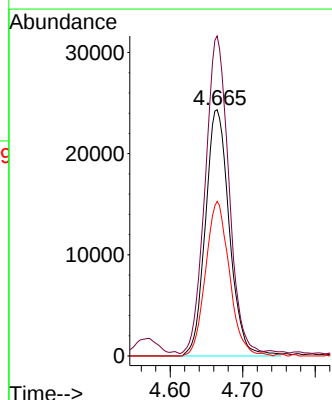
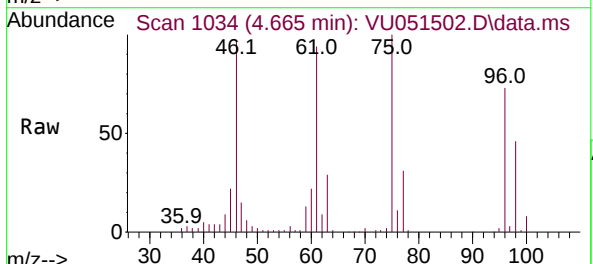
Tgt Ion: 96 Resp: 55858

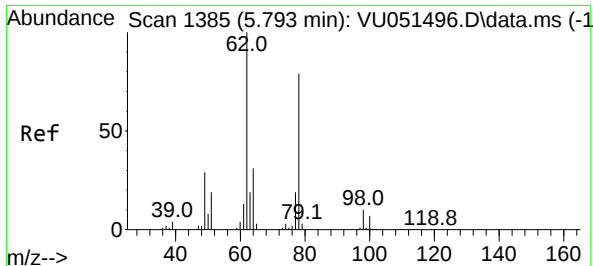
Ion Ratio Lower Upper

96 100

61 130.0 90.6 168.2

98 62.8 47.5 88.3

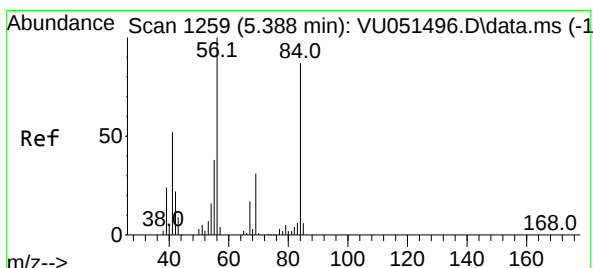
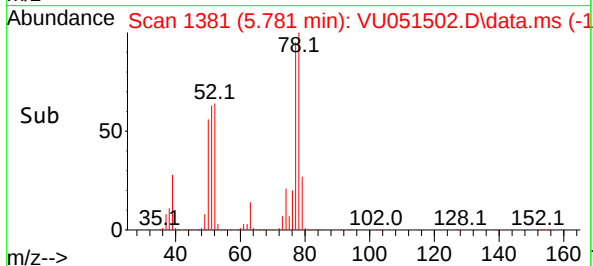
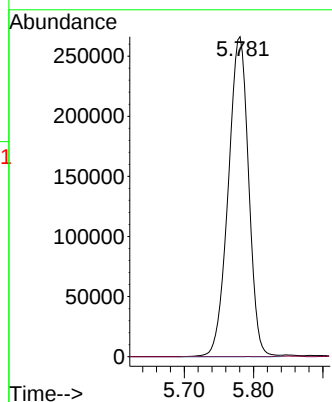
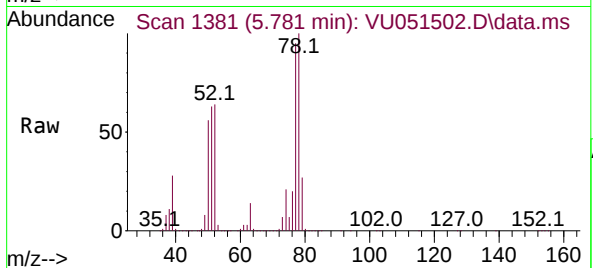




#27
1,2-Dichloroethane
Concen: 20.591 ug/L
RT: 5.781 min Scan# 11
Delta R.T. -0.013 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

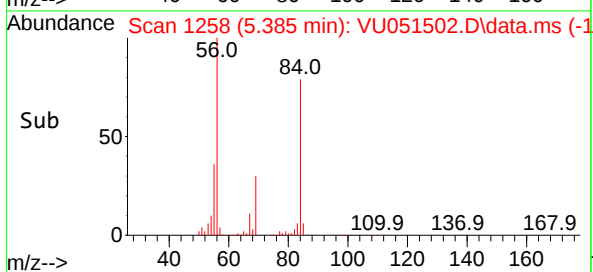
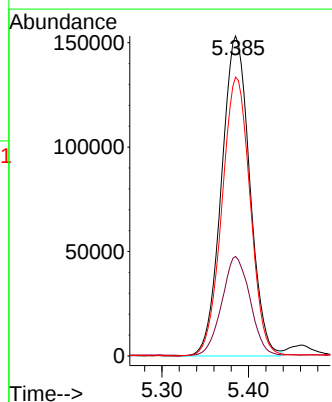
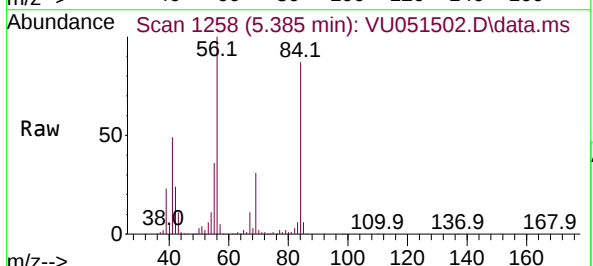
Instrument :
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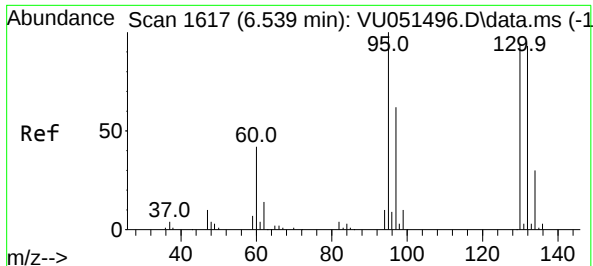
Tgt Ion: 62 Resp: 543137
Ion Ratio Lower Upper
62 100
98 0.0 7.7 11.5#



#30
Cyclohexane
Concen: 12.455 ug/L
RT: 5.385 min Scan# 1258
Delta R.T. -0.003 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

Tgt Ion: 56 Resp: 346708
Ion Ratio Lower Upper
56 100
69 30.9 25.1 37.7
84 87.2 70.9 106.3



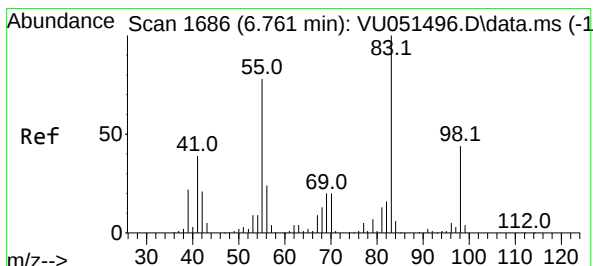
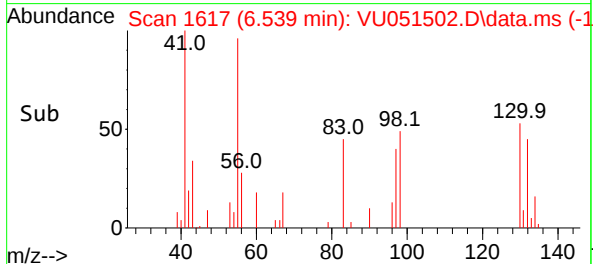
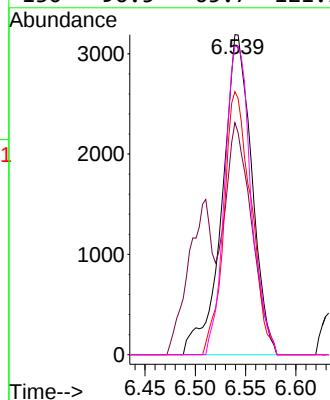
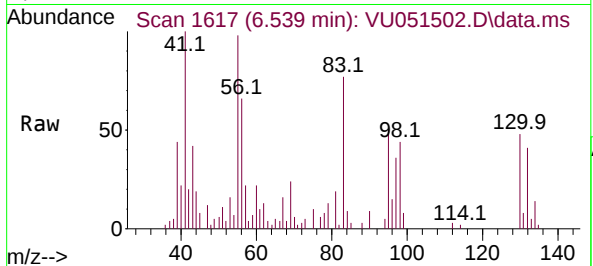


#34
Trichloroethene
Concen: 0.287 ug/L
RT: 6.539 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

Instrument :
MSVOA_U
ClientSampleId :
BHAC8

Tgt Ion: 95 Resp: 6537

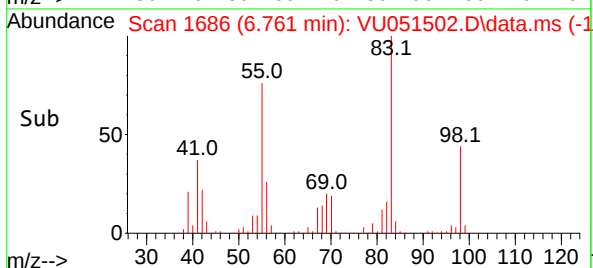
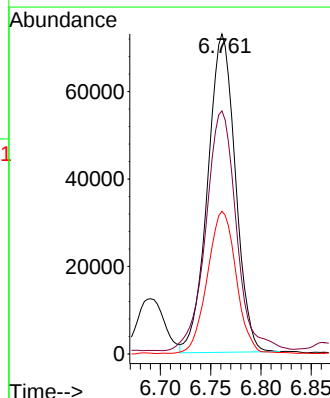
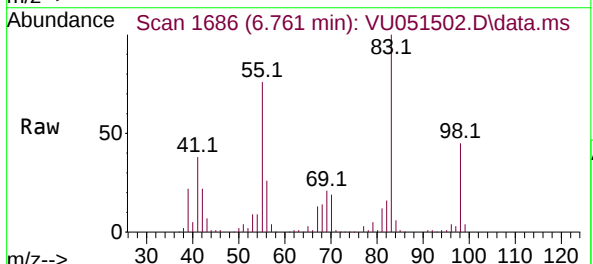
Ion	Ratio	Lower	Upper
95	100		
97	72.5	45.4	84.2
132	82.2	63.1	117.3
130	96.5	65.7	121.9

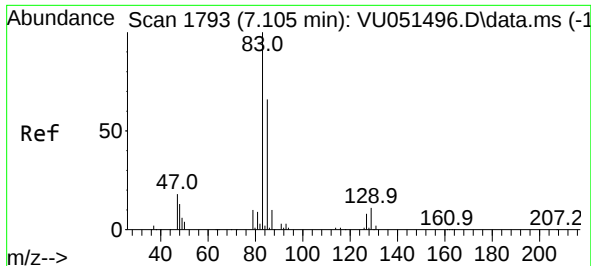


#35
Methylcyclohexane
Concen: 4.851 ug/L
RT: 6.761 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

Tgt Ion: 83 Resp: 139613

Ion	Ratio	Lower	Upper
83	100		
55	83.3	65.8	98.6
98	46.5	35.9	53.9





#38

Bromodichloromethane

Concen: 0.264 ug/L

RT: 7.157 min Scan# 11

Delta R.T. 0.051 min

Lab File: VU051502.D

Acq: 26 Oct 2022 15:09

Instrument :

MSVOA_U

ClientSampleId :

BHAC8

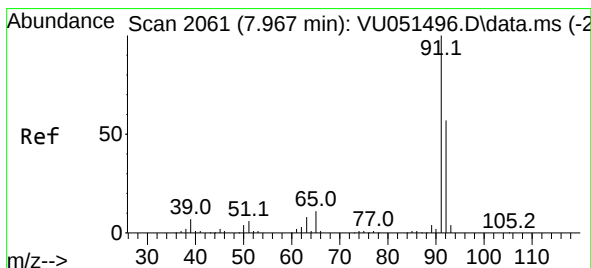
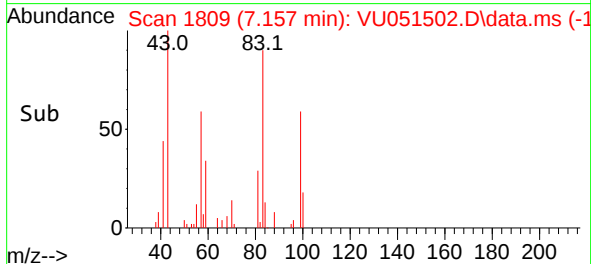
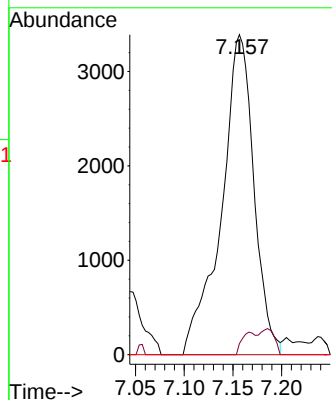
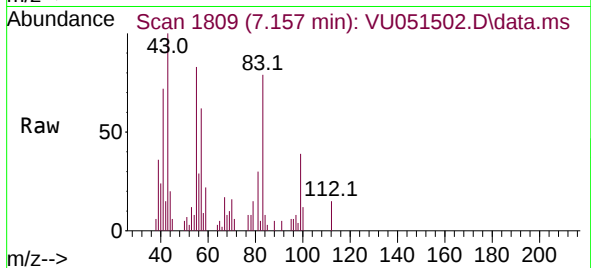
Tgt Ion: 83 Resp: 7879

Ion Ratio Lower Upper

83 100

85 3.5 44.8 83.2#

127 0.0 7.0 10.6#



#42

Toluene

Concen: 2.598 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. -0.000 min

Lab File: VU051502.D

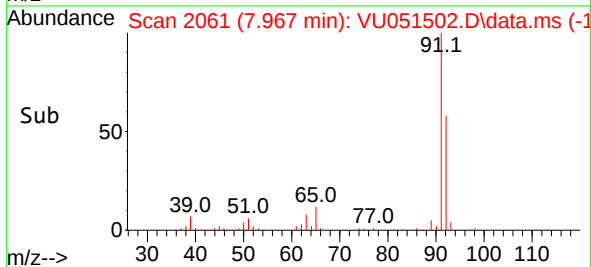
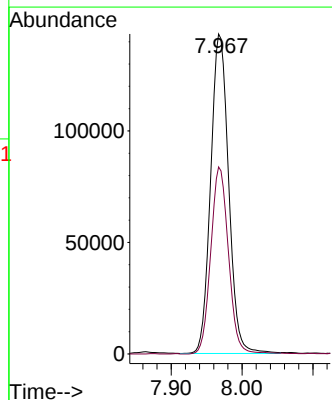
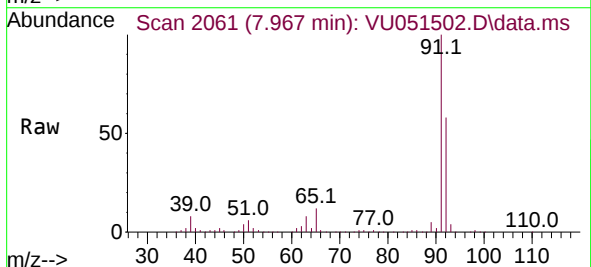
Acq: 26 Oct 2022 15:09

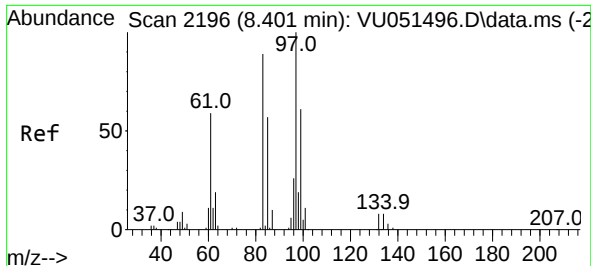
Tgt Ion: 91 Resp: 252139

Ion Ratio Lower Upper

91 100

92 58.5 39.9 74.1

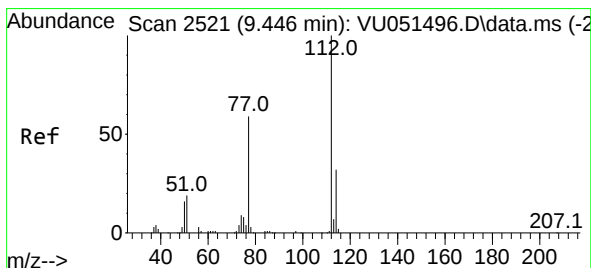
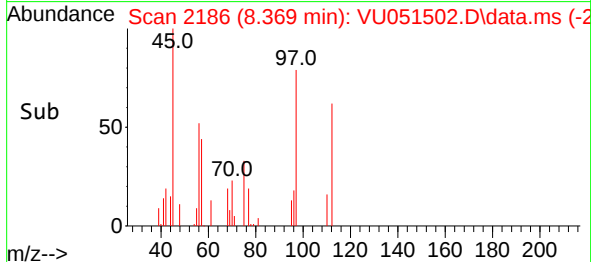
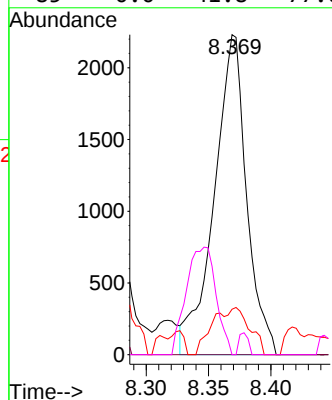
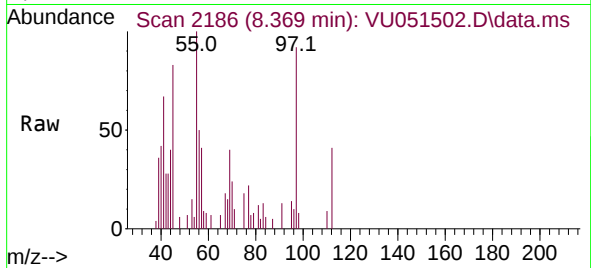




#45
1,1,2-Trichloroethane
Concen: 0.229 ug/L
RT: 8.369 min Scan# 2196
Delta R.T. -0.032 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

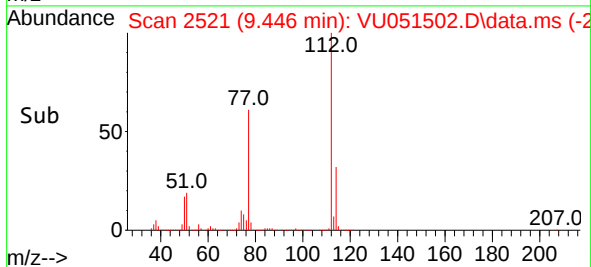
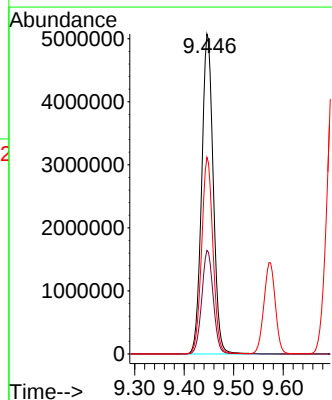
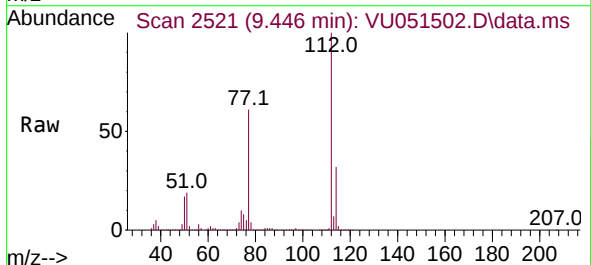
Instrument :
MSVOA_U
ClientSampleId :
BHAC8

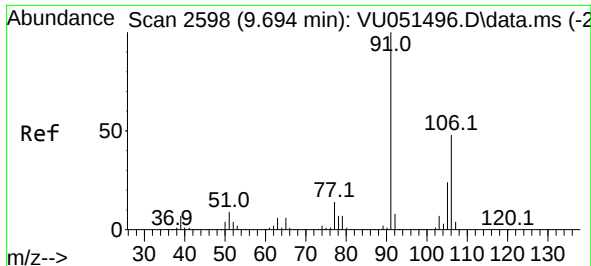
Tgt Ion:	97	Resp:	4026
Ion	Ratio	Lower	Upper
97	100		
99	0.0	45.3	84.1#
83	14.2	63.1	117.1#
85	0.0	41.8	77.6#



#51
Chlorobenzene
Concen: 142.156 ug/L
RT: 9.446 min Scan# 2521
Delta R.T. -0.000 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

Tgt Ion:	112	Resp:	8244104
Ion	Ratio	Lower	Upper
112	100		
114	32.3	22.3	41.5
77	61.5	48.1	72.1

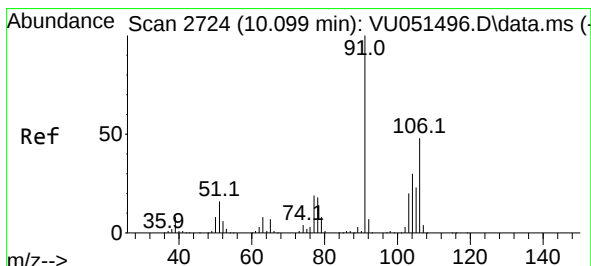
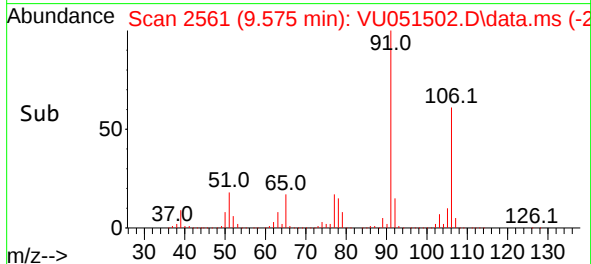
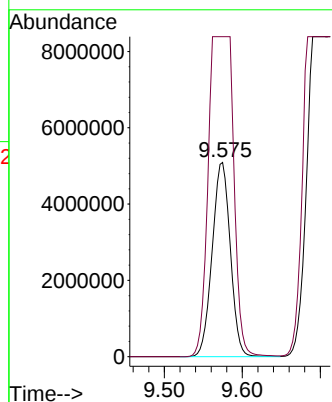
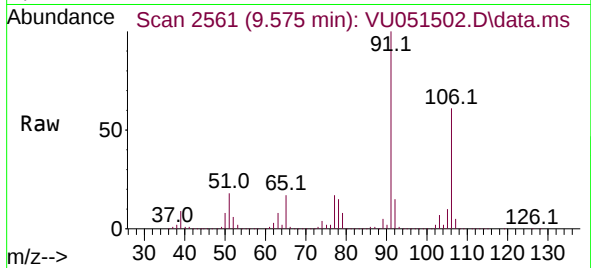




#53
m,p-Xylene
Concen: 243.146 ug/L
RT: 9.575 min Scan# 21
Delta R.T. -0.119 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

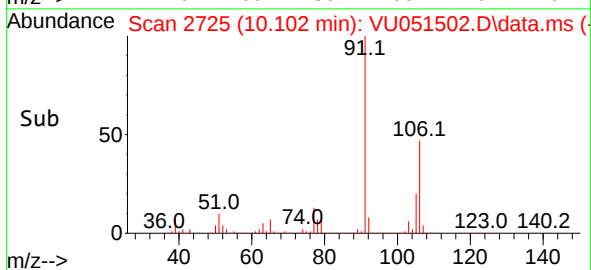
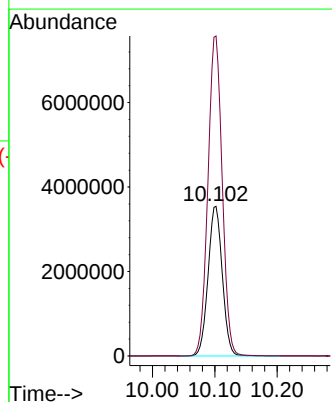
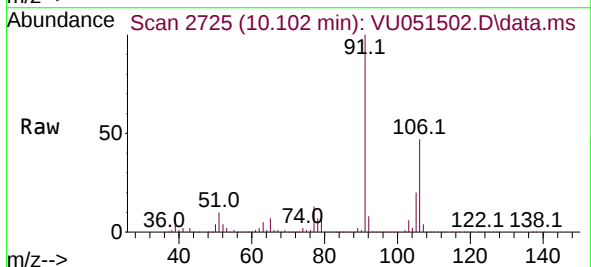
Instrument :
MSVOA_U
ClientSampleId :
BHAC8

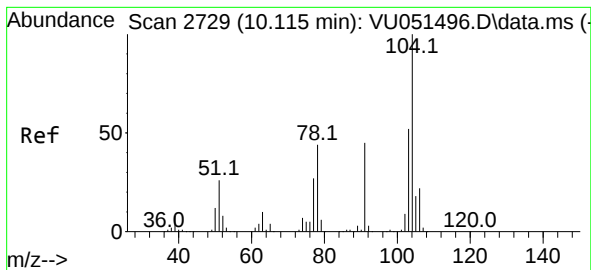
Tgt Ion:106 Resp: 8225051
Ion Ratio Lower Upper
106 100
91 164.7 143.9 267.3



#54
o-Xylene
Concen: 175.126 ug/L
RT: 10.102 min Scan# 2725
Delta R.T. 0.003 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

Tgt Ion:106 Resp: 5605309
Ion Ratio Lower Upper
106 100
91 213.8 154.4 286.8





#55

Styrene

Concen: 4.869 ug/L

RT: 10.102 min Scan# 21

Delta R.T. -0.013 min

Lab File: VU051502.D

Acq: 26 Oct 2022 15:09

Instrument :

MSVOA_U

ClientSampleId :

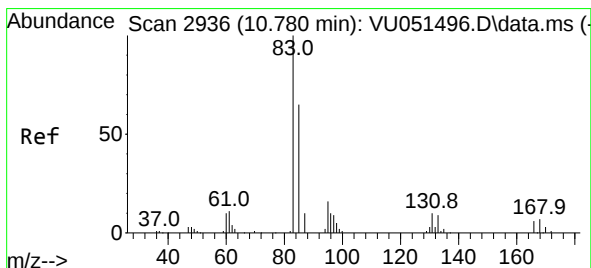
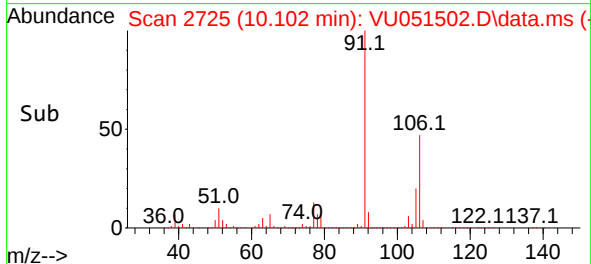
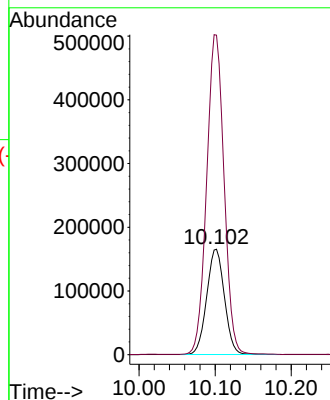
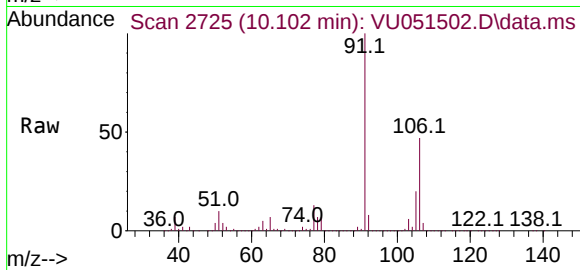
BHAC8

Tgt Ion:104 Resp: 268275

Ion Ratio Lower Upper

104 100

78 303.2 32.1 59.7#



#57

1,1,2,2-Tetrachloroethane

Concen: 1.972 ug/L

RT: 10.800 min Scan# 2942

Delta R.T. 0.019 min

Lab File: VU051502.D

Acq: 26 Oct 2022 15:09

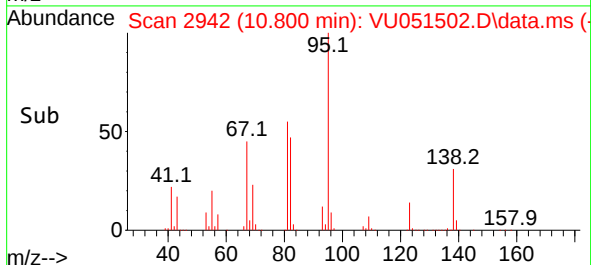
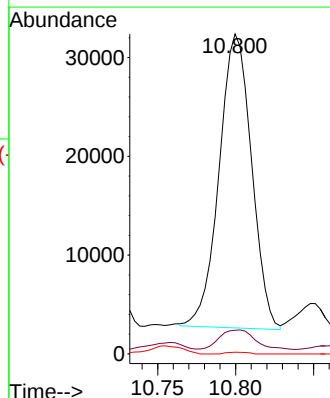
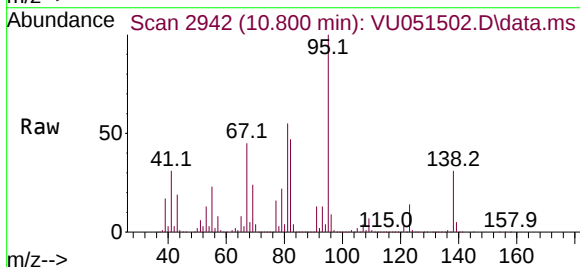
Tgt Ion: 83 Resp: 42963

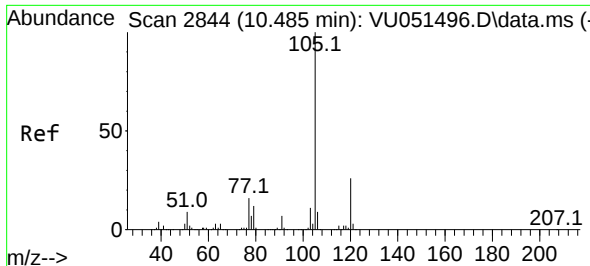
Ion Ratio Lower Upper

83 100

85 7.4 45.9 85.3#

131 0.5 7.4 11.2#

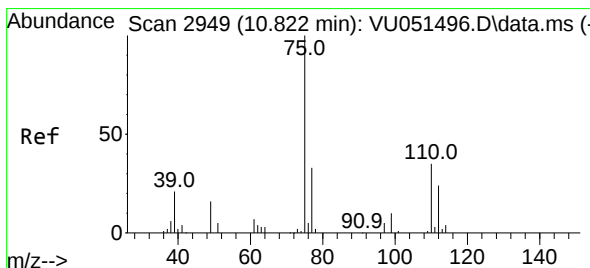
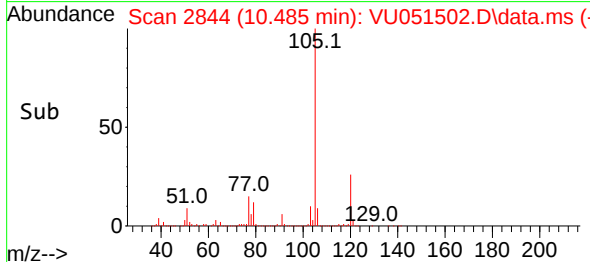
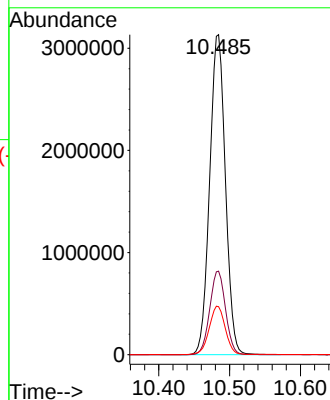
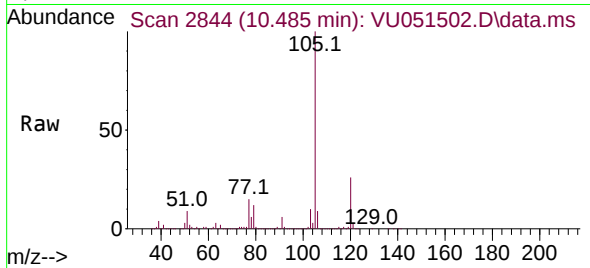




#60
Isopropylbenzene
Concen: 50.266 ug/L
RT: 10.485 min Scan# 2844
Delta R.T. -0.000 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

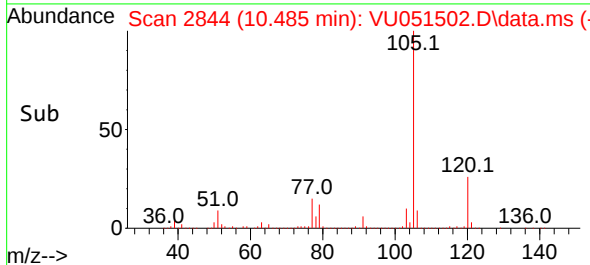
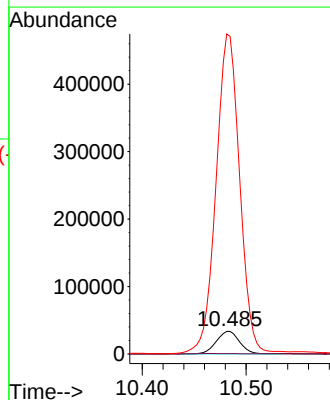
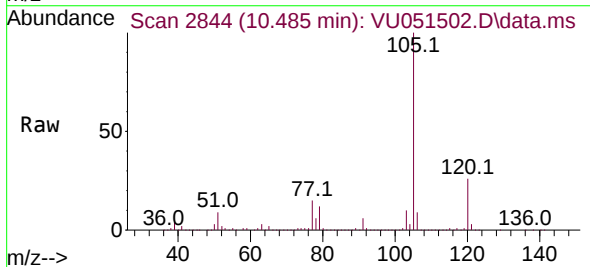
Instrument :
MSVOA_U
ClientSampleId :
BHAC8

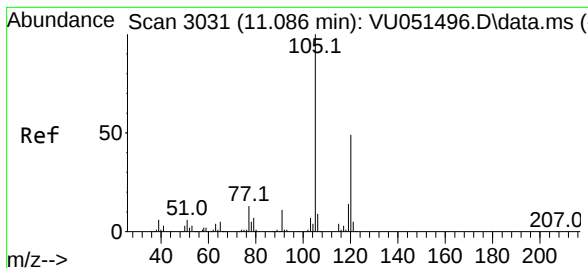
Tgt Ion:105 Resp: 4826900
Ion Ratio Lower Upper
105 100
120 26.1 20.6 30.8
77 15.6 13.5 20.3



#61
1,2,3-Trichloropropane
Concen: 2.699 ug/L
RT: 10.485 min Scan# 2844
Delta R.T. -0.338 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

Tgt Ion: 75 Resp: 51678
Ion Ratio Lower Upper
75 100
110 3.3 27.0 40.6#
77 1456.1 26.4 39.6#

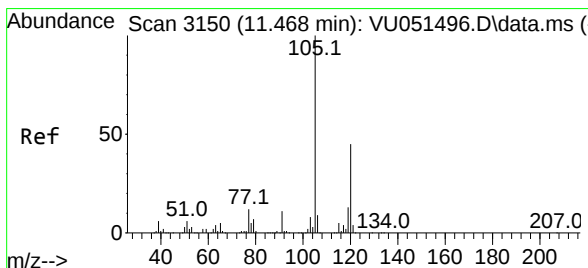
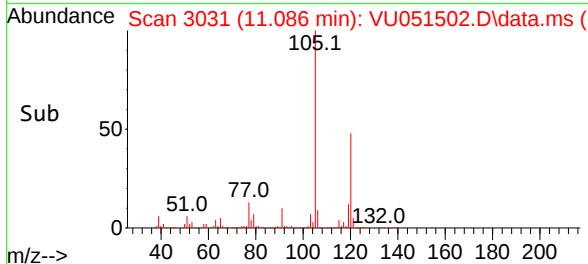
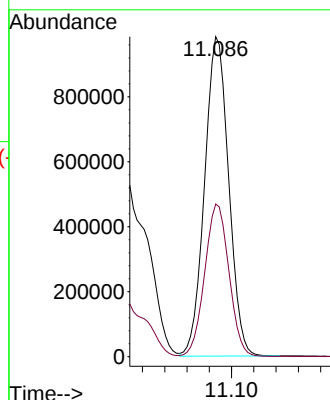
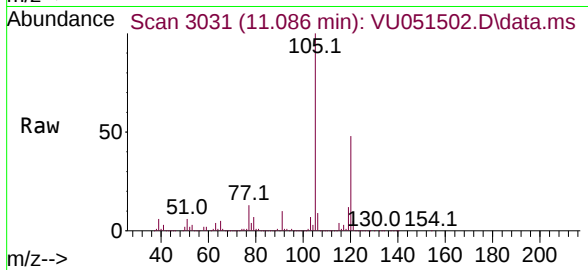




#62
 1,3,5-Trimethylbenzene
 Concen: 57.927 ug/L
 RT: 11.086 min Scan# 3031
 Delta R.T. -0.000 min
 Lab File: VU051502.D
 Acq: 26 Oct 2022 15:09

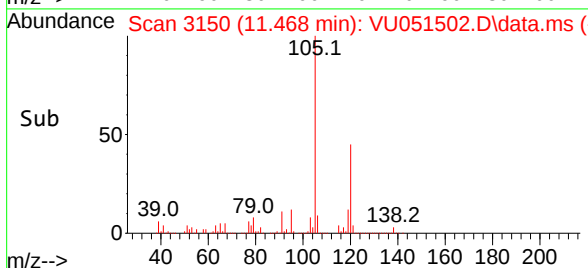
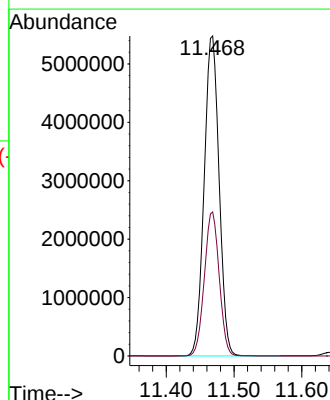
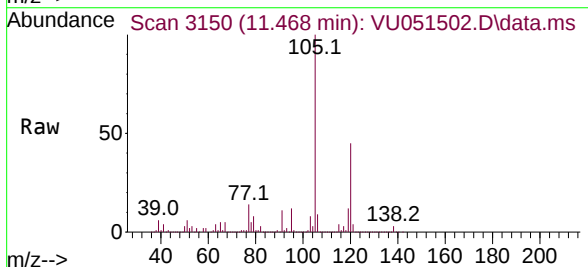
Instrument :
 MSVOA_U
 ClientSampleId :
 BHAC8

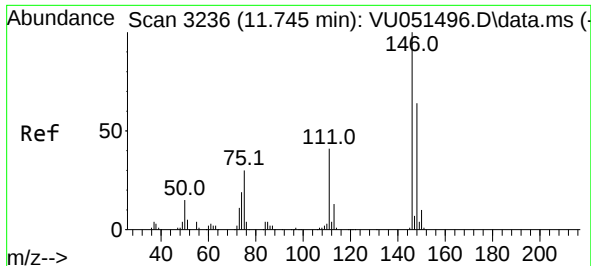
Tgt Ion:105 Resp: 1475614
 Ion Ratio Lower Upper
 105 100
 120 48.5 37.7 56.5



#63
 1,2,4-Trimethylbenzene
 Concen: 116.128 ug/L
 RT: 11.468 min Scan# 3150
 Delta R.T. -0.000 min
 Lab File: VU051502.D
 Acq: 26 Oct 2022 15:09

Tgt Ion:105 Resp: 8366036
 Ion Ratio Lower Upper
 105 100
 120 44.7 35.6 53.4

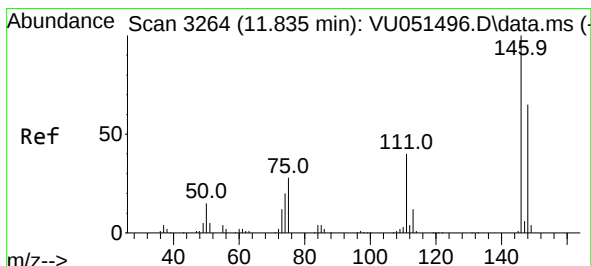
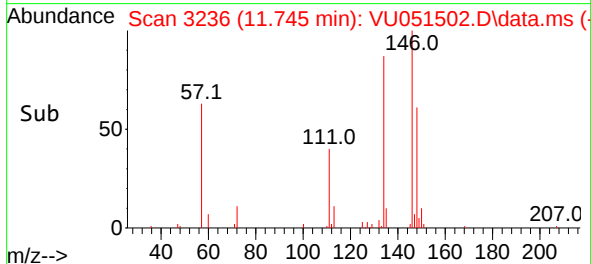
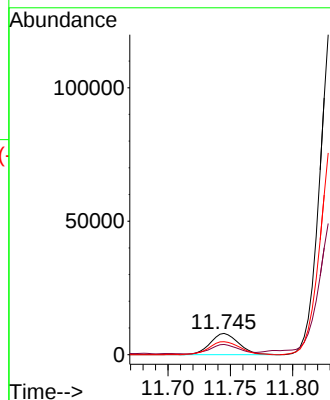
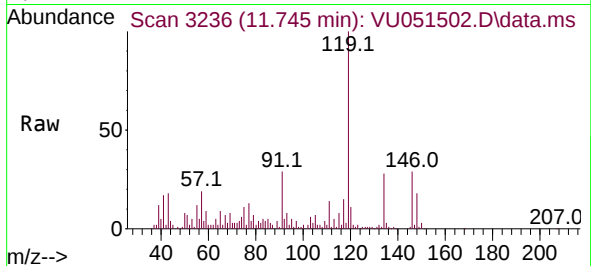




#64
1,3-Dichlorobenzene
Concen: 0.264 ug/L
RT: 11.745 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

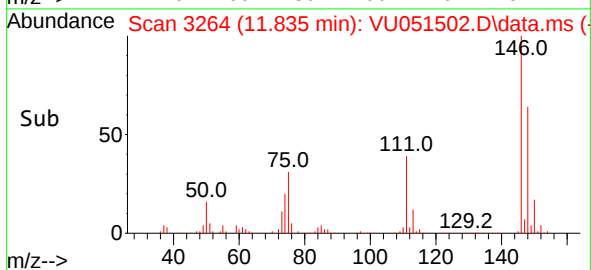
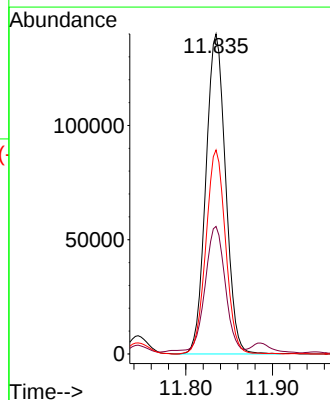
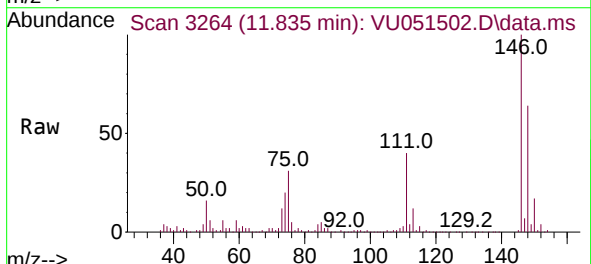
Instrument :
MSVOA_U
ClientSampleId :
BHAC8

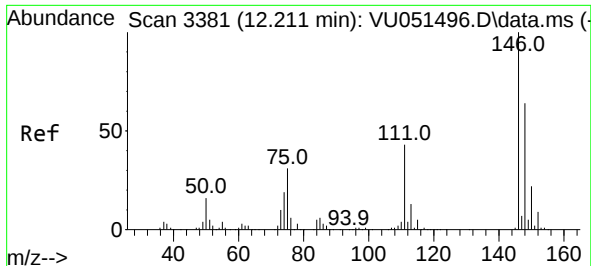
Tgt Ion:146 Resp: 12556
Ion Ratio Lower Upper
146 100
111 48.1 28.3 52.7
148 61.1 43.8 81.4



#65
1,4-Dichlorobenzene
Concen: 4.743 ug/L
RT: 11.835 min Scan# 3264
Delta R.T. -0.000 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

Tgt Ion:146 Resp: 222071
Ion Ratio Lower Upper
146 100
111 39.9 29.1 54.1
148 63.8 44.2 82.0





#67

1,2-Dichlorobenzene

Concen: 2.520 ug/L

RT: 12.211 min Scan# 31

Delta R.T. -0.000 min

Lab File: VU051502.D

Acq: 26 Oct 2022 15:09

Instrument :

MSVOA_U

ClientSampleId :

BHAC8

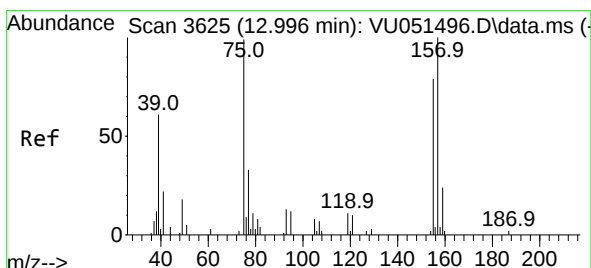
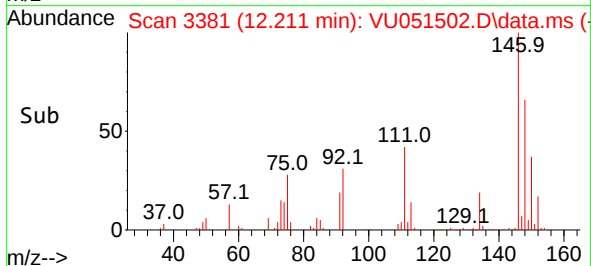
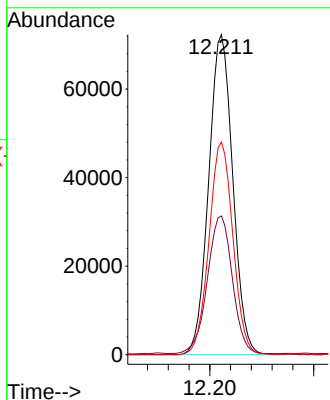
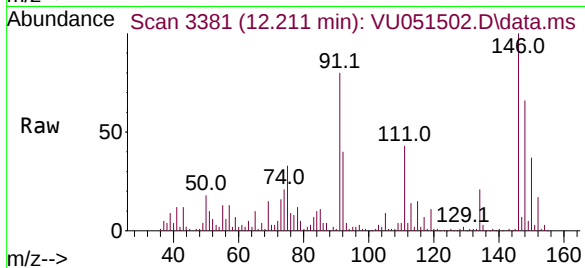
Tgt Ion:146 Resp: 116383

Ion Ratio Lower Upper

146 100

111 43.3 35.5 53.3

148 66.5 50.9 76.3



#68

1,2-Dibromo-3-chloropropane

Concen: 0.834 ug/L

RT: 12.970 min Scan# 3617

Delta R.T. -0.026 min

Lab File: VU051502.D

Acq: 26 Oct 2022 15:09

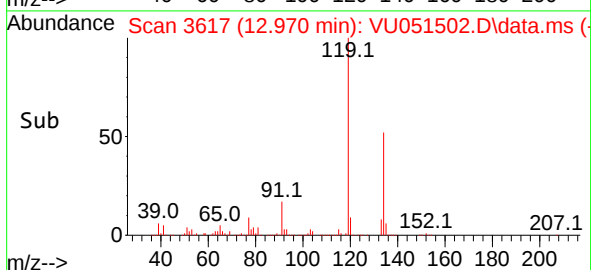
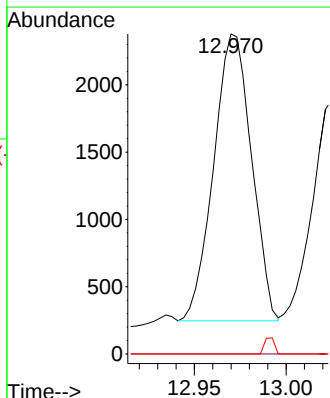
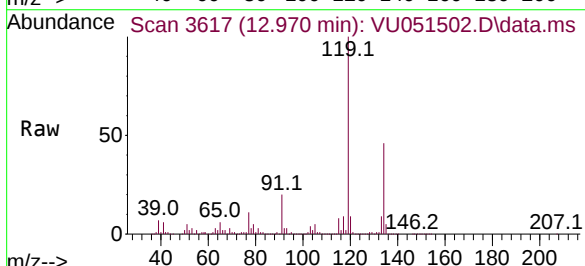
Tgt Ion: 75 Resp: 3054

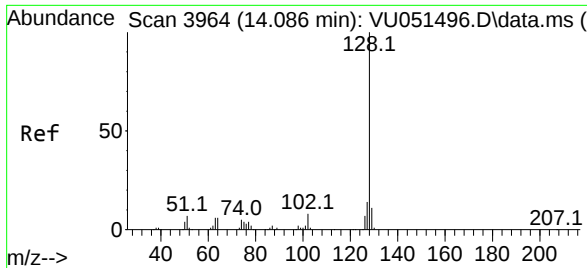
Ion Ratio Lower Upper

75 100

155 0.0 62.7 94.1#

157 0.0 78.3 117.5#





#71
Naphthalene
Concen: 10.978 ug/L
RT: 14.082 min Scan# 3963
Delta R.T. -0.003 min
Lab File: VU051502.D
Acq: 26 Oct 2022 15:09

Instrument :
MSVOA_U
ClientSampleId :
BHAC8

Tgt Ion:128 Resp: 474828
Ion Ratio Lower Upper
128 100
129 11.5 8.5 12.7
127 12.7 11.1 16.7

