

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102622\
 Data File : VU051524.D
 Acq On : 27 Oct 2022 00:50
 Operator : JC/MD
 Sample : N5300-11
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BHA74

Quant Time: Oct 27 08:25:47 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100722WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 27 08:11:03 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	255212	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	249898	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	127728	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	90891	4.415	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.400%
7) Chloroethane-d5	1.909	69	82849	4.684	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.600%
11) 1,1-Dichloroethene-d2	2.565	65	33034	4.059	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.200%
20) 2-Butanone-d5	4.617	46	269072	59.365	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	118.740%
24) Chloroform-d	5.060	84	154634	4.029	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.600%
26) 1,2-Dichloroethane-d4	5.703	65	85450	4.317	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.400%
32) Benzene-d6	5.726	84	333780	4.855	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.200%
36) 1,2-Dichloropropane-d6	6.690	67	104636	4.482	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.600%
41) Toluene-d8	7.896	98	271116	4.408	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.200%
43) trans-1,3-Dichloroprop...	8.179	79	31604	4.120	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.400%
46) 2-Hexanone-d5	8.629	63	205289	79.409	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	158.820%#
56) 1,1,2,2-Tetrachloroeth...	10.755	84	105597	5.662	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	113.200%
66) 1,2-Dichlorobenzene-d4	12.192	152	103284	4.652	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.000%
Target Compounds						
					Qvalue	
8) Chloroethane	1.932	64	159148	8.704	ug/L	84
10) 1,1,2-Trichloro-1,2,2-...	2.559	101	1116	0.056	ug/L #	21
13) Acetone	2.626	43	16417	4.829	ug/L	98
14) Carbon disulfide	2.793	76	10108	0.177	ug/L #	90
15) Methyl Acetate	3.080	43	178340	21.580	ug/L #	50
17) Methyl tert-butyl Ether	3.366	73	7308	0.171	ug/L #	1
18) trans-1,2-Dichloroethene	3.353	96	7475	0.382	ug/L	91
27) 1,2-Dichloroethane	5.774	62	71292	2.820	ug/L #	74
30) Cyclohexane	5.385	56	81436	3.207	ug/L	99
33) Benzene	5.771	78	9383685	112.478	ug/L	100
35) Methylcyclohexane	6.761	83	82100	3.127	ug/L	96
38) Bromodichloromethane	7.160	83	6890	0.253	ug/L #	39
42) Toluene	7.967	91	97236	1.098	ug/L	100
45) 1,1,2-Trichloroethane	8.366	97	3180	0.198	ug/L #	23
51) Chlorobenzene	9.446	112	5245396	99.135	ug/L	99
52) Ethylbenzene	9.568	91	69228	0.870	ug/L	99
53) m,p-Xylene	9.693	106	17676	0.573	ug/L	87
54) o-Xylene	10.099	106	21295	0.729	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.783	83	3867	0.195	ug/L #	46

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

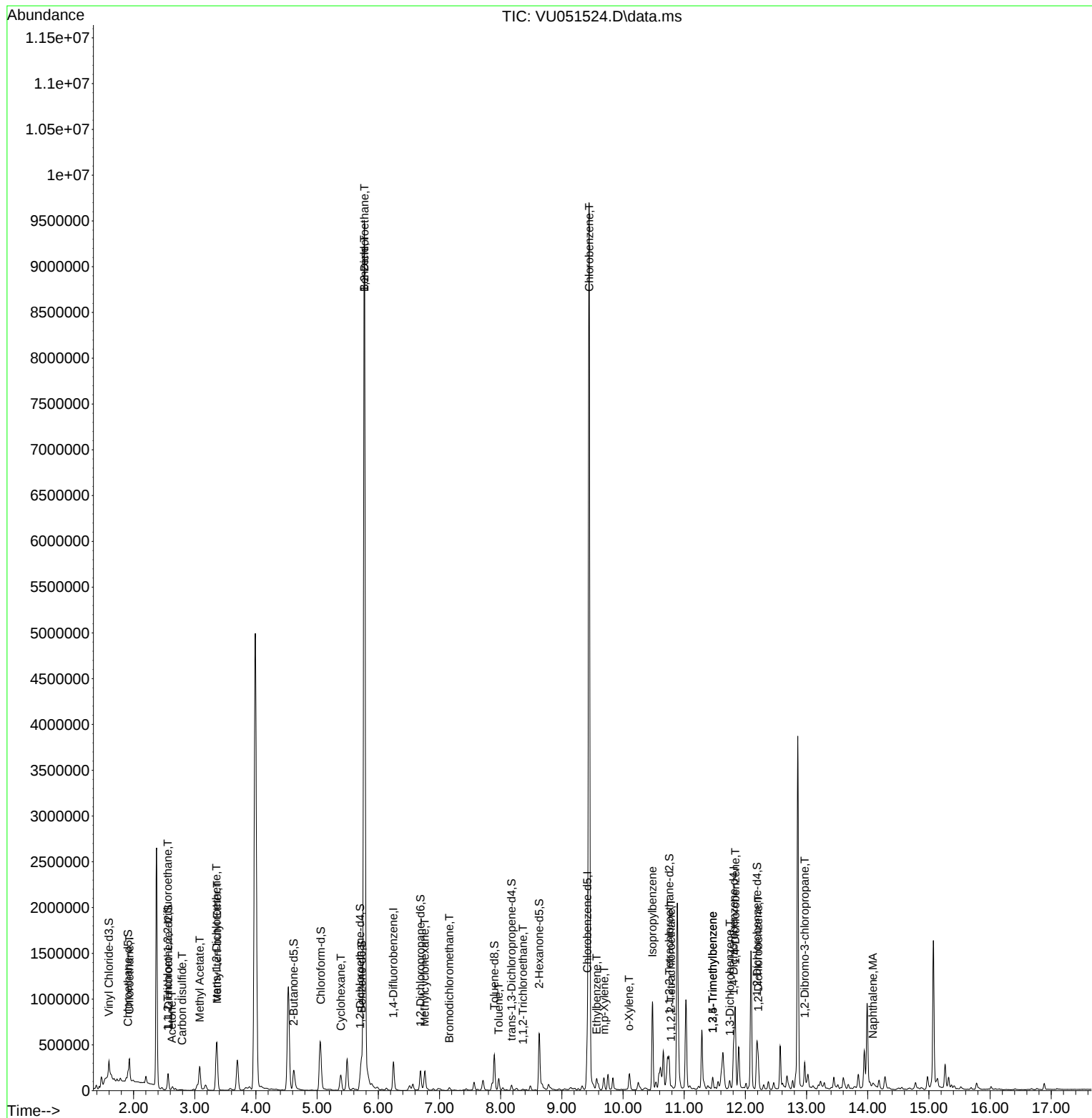
60) Isopropylbenzene	10.481	105	578367	7.149	ug/L #	84
62) 1,3,5-Trimethylbenzene	11.465	105	72754	3.390	ug/L	98
63) 1,2,4-Trimethylbenzene	11.465	105	72754	1.199	ug/L	98
64) 1,3-Dichlorobenzene	11.745	146	30285	0.757	ug/L	96
65) 1,4-Dichlorobenzene	11.835	146	351407	8.909	ug/L	98
67) 1,2-Dichlorobenzene	12.211	146	106740	2.744	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.970	75	1388	0.450	ug/L #	5
71) Naphthalene	14.086	128	32837	0.901	ug/L #	95

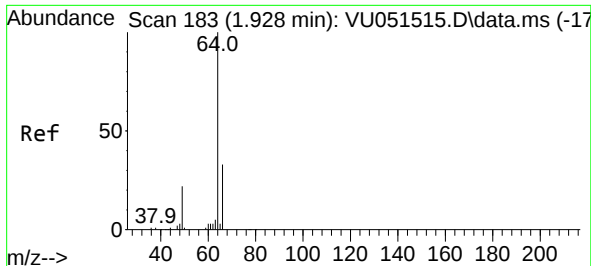
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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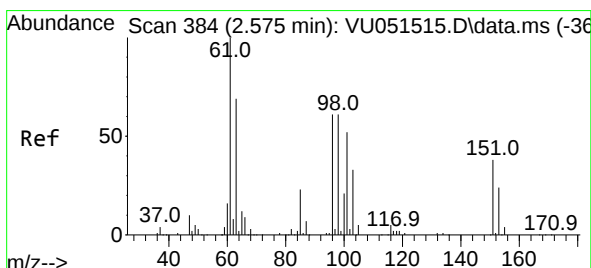
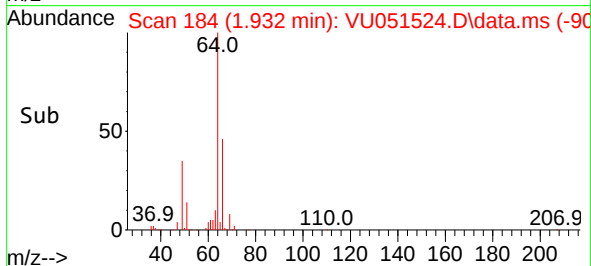
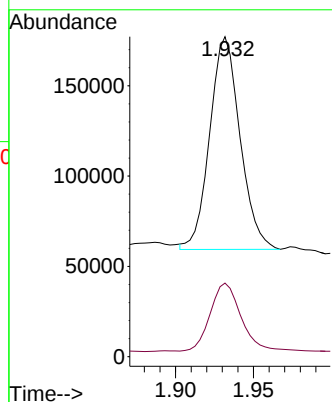
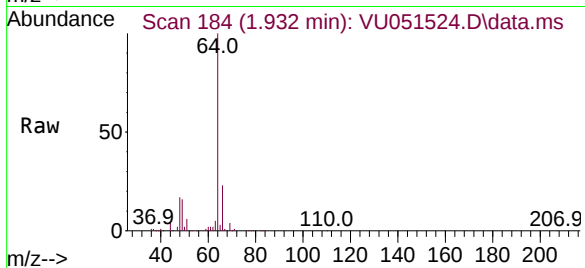




#8
Chloroethane
Concen: 8.704 ug/L
RT: 1.932 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

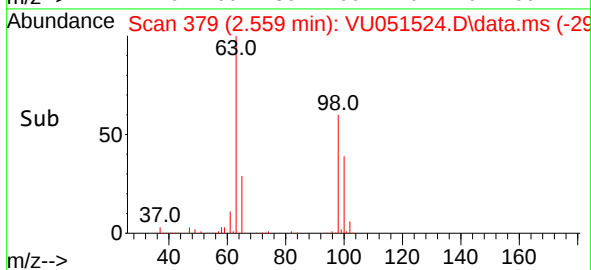
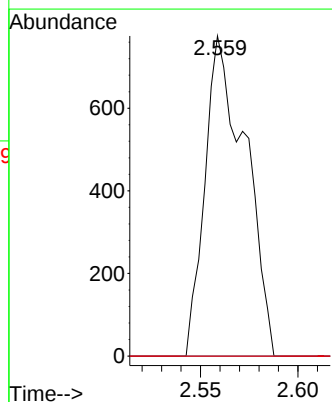
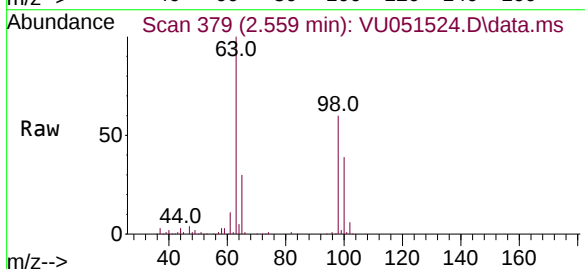
Instrument :
MSVOA_U
ClientSampleId :
BHA74

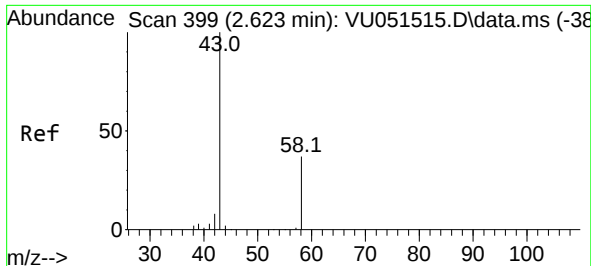
Tgt Ion: 64 Resp: 159148
Ion Ratio Lower Upper
64 100
66 23.0 22.3 41.3



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.056 ug/L
RT: 2.559 min Scan# 379
Delta R.T. -0.016 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

Tgt Ion:101 Resp: 1116
Ion Ratio Lower Upper
101 100
85 0.0 34.6 51.8#
151 0.0 56.5 84.7#





#13

Acetone

Concen: 4.829 ug/L

RT: 2.626 min Scan# 400

Delta R.T. 0.003 min

Lab File: VU051524.D

Acq: 27 Oct 2022 00:50

Instrument :

MSVOA_U

ClientSampleId :

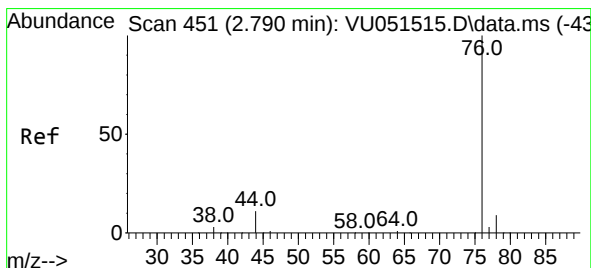
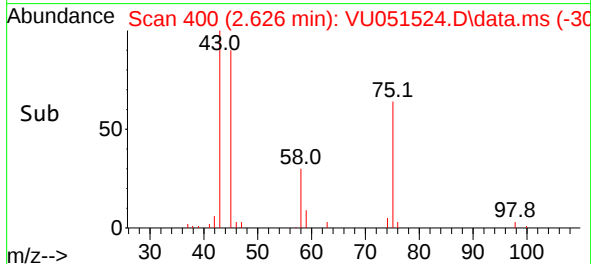
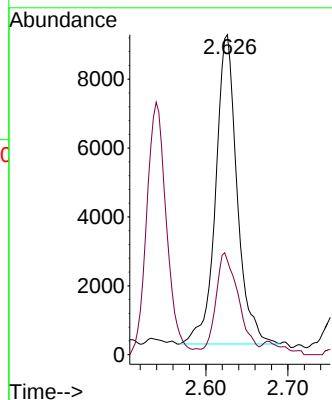
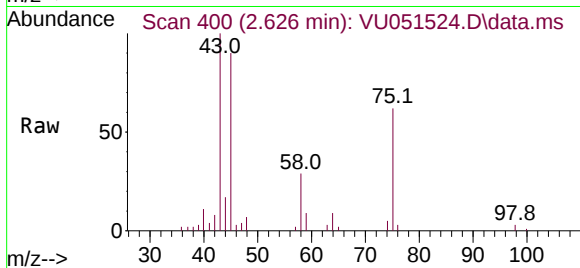
BHA74

Tgt Ion: 43 Resp: 16417

Ion Ratio Lower Upper

43 100

58 33.3 0.0 68.8



#14

Carbon disulfide

Concen: 0.177 ug/L

RT: 2.793 min Scan# 452

Delta R.T. 0.003 min

Lab File: VU051524.D

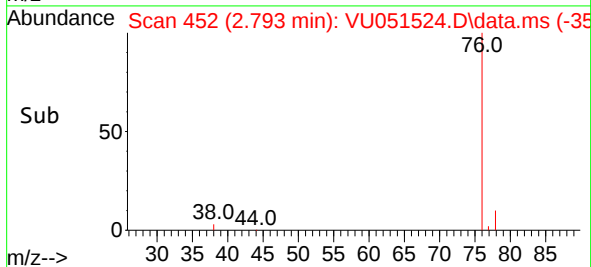
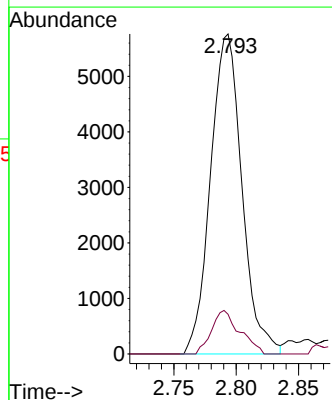
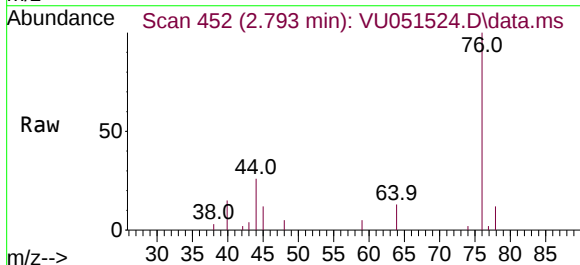
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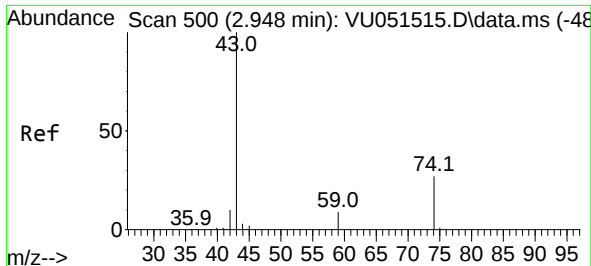
Tgt Ion: 76 Resp: 10108

Ion Ratio Lower Upper

76 100

78 12.4 7.0 10.4#

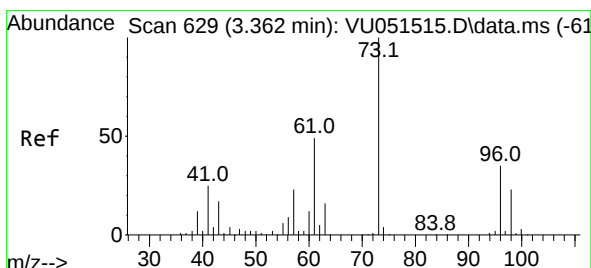
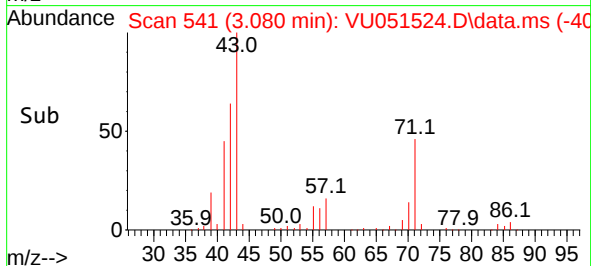
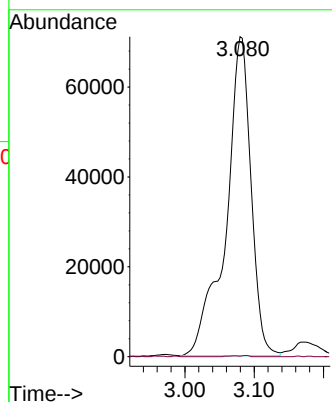
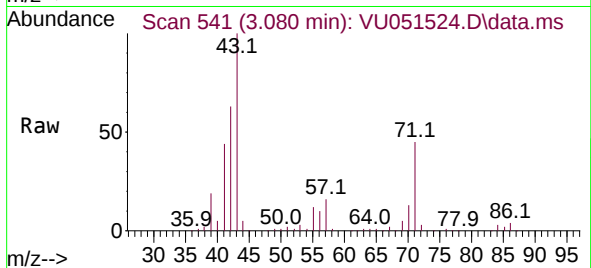




#15
Methyl Acetate
Concen: 21.580 ug/L
RT: 3.080 min Scan# 541
Delta R.T. 0.132 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

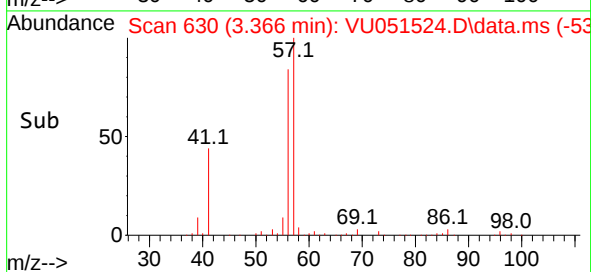
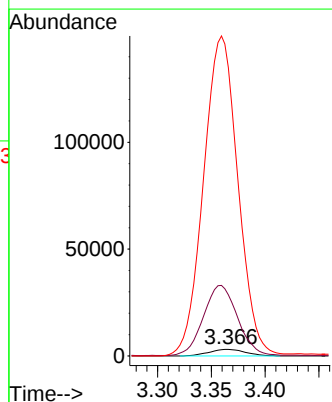
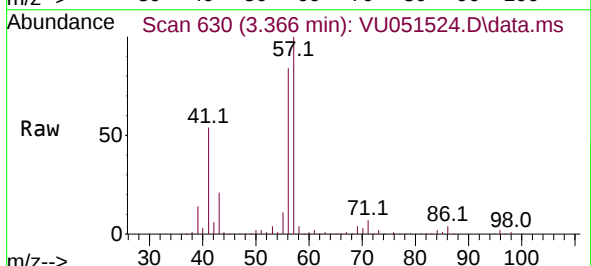
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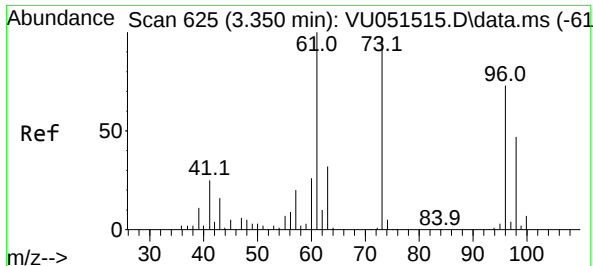
Tgt Ion: 43 Resp: 178340
Ion Ratio Lower Upper
43 100
74 0.1 20.0 30.0#



#17
Methyl tert-butyl Ether
Concen: 0.171 ug/L
RT: 3.366 min Scan# 630
Delta R.T. 0.003 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

Tgt Ion: 73 Resp: 7308
Ion Ratio Lower Upper
73 100
43 986.6 15.4 23.0#
57 4563.4 18.9 28.3#

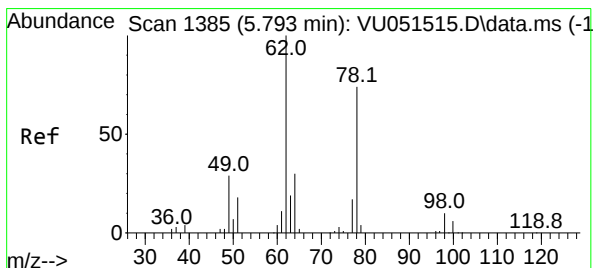
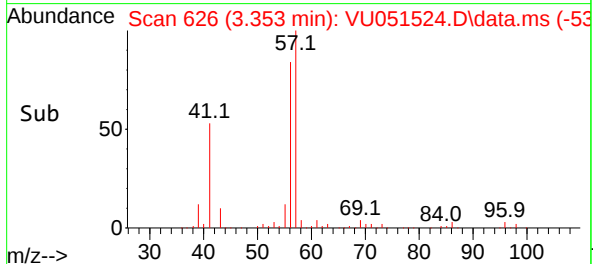
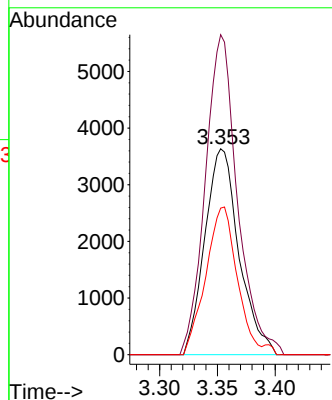
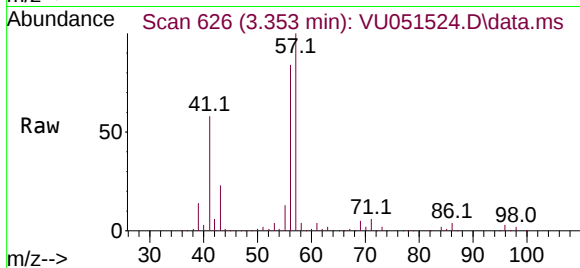




#18
trans-1,2-Dichloroethene
Concen: 0.382 ug/L
RT: 3.353 min Scan# 61
Delta R.T. 0.003 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

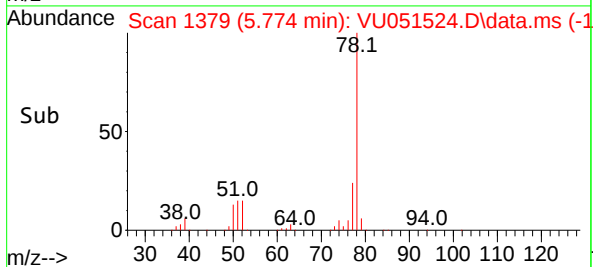
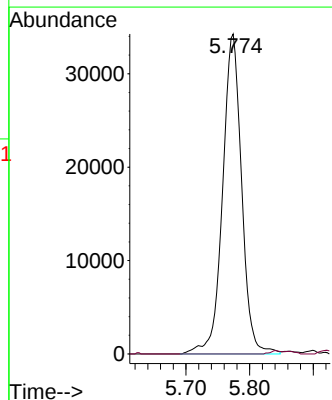
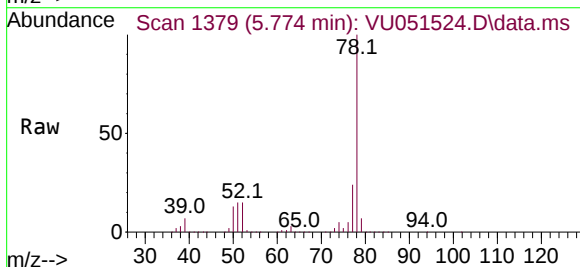
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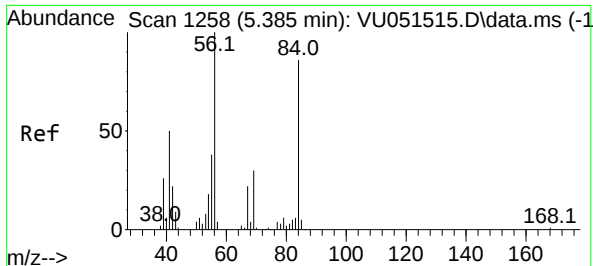
Tgt Ion: 96 Resp: 7475
Ion Ratio Lower Upper
96 100
61 155.4 101.4 188.2
98 71.2 44.9 83.5



#27
1,2-Dichloroethane
Concen: 2.820 ug/L
RT: 5.774 min Scan# 1379
Delta R.T. -0.019 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

Tgt Ion: 62 Resp: 71292
Ion Ratio Lower Upper
62 100
98 0.0 7.7 11.5#





#30

Cyclohexane

Concen: 3.207 ug/L

RT: 5.385 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VU051524.D

Acq: 27 Oct 2022 00:50

Instrument :

MSVOA_U

ClientSampleId :

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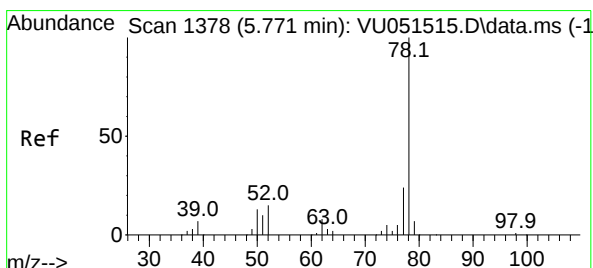
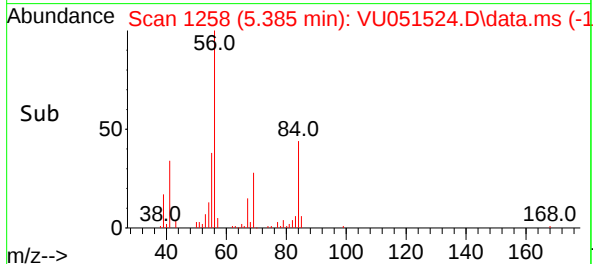
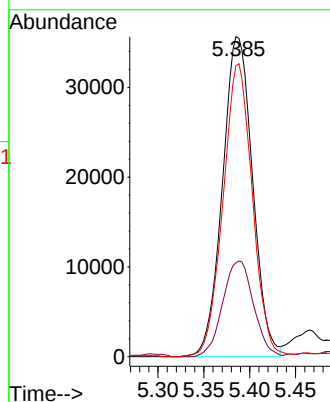
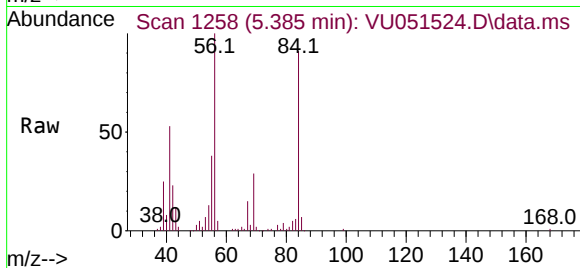
Tgt Ion: 56 Resp: 81436

Ion Ratio Lower Upper

56 100

69 30.6 25.1 37.7

84 89.1 70.9 106.3



#33

Benzene

Concen: 112.478 ug/L

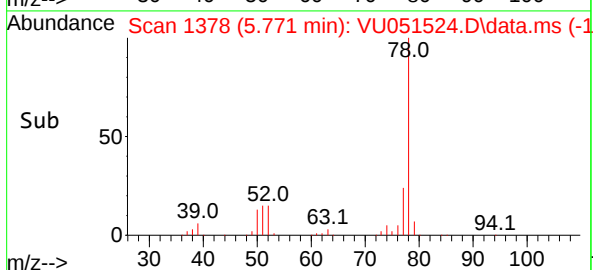
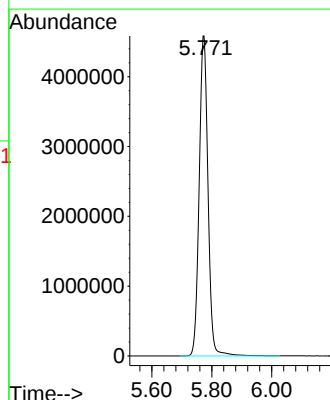
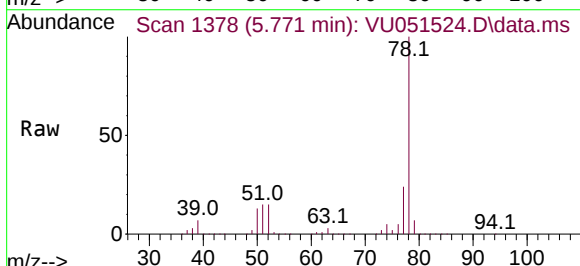
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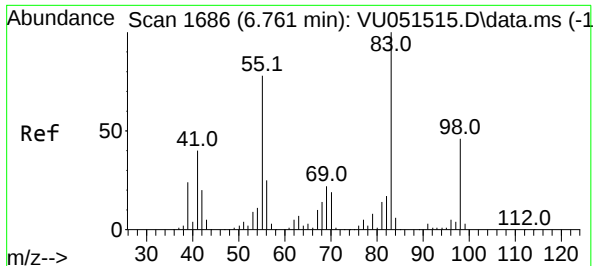
Delta R.T. 0.000 min

Lab File: VU051524.D

Acq: 27 Oct 2022 00:50

Tgt Ion: 78 Resp: 9383685

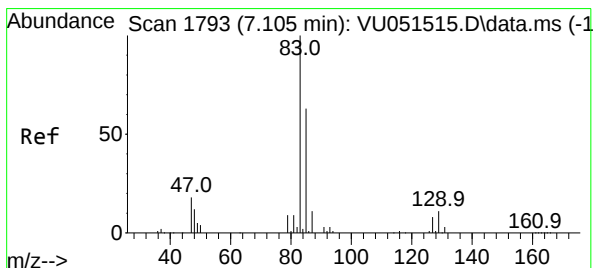
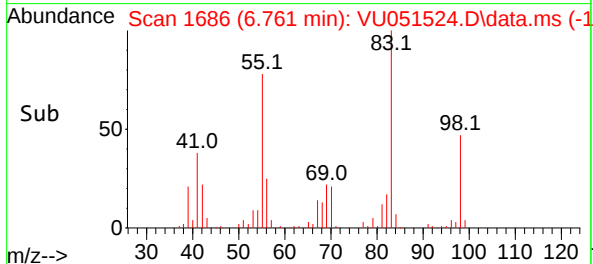
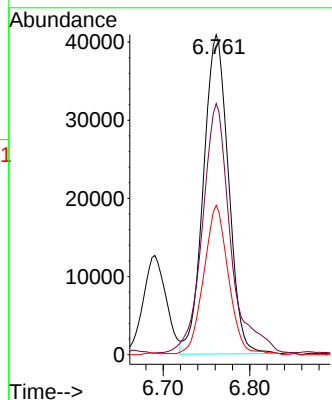
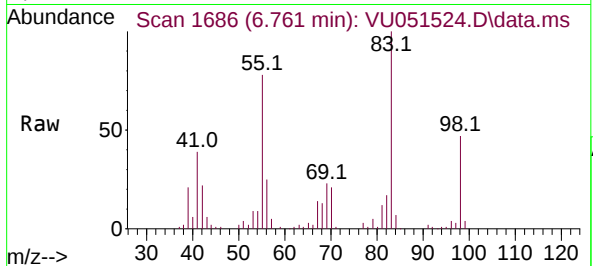




#35
Methylcyclohexane
Concen: 3.127 ug/L
RT: 6.761 min Scan# 11
Delta R.T. 0.000 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

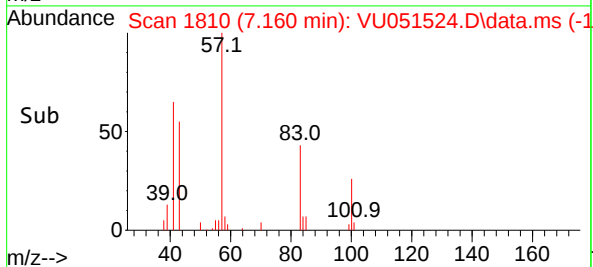
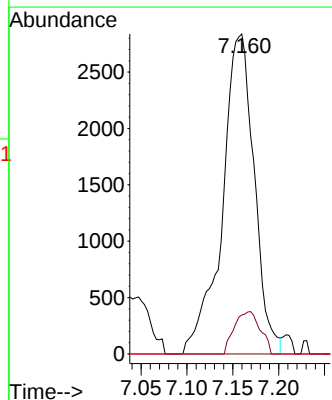
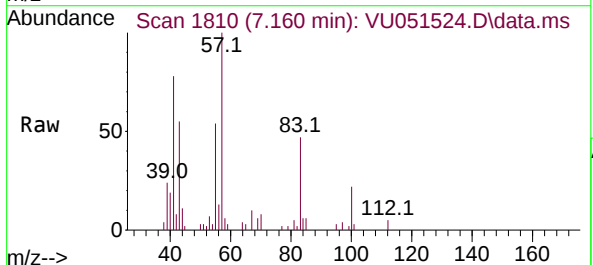
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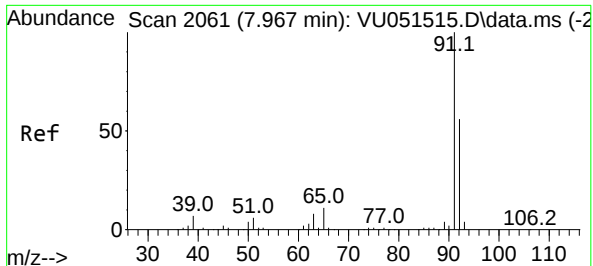
Tgt Ion: 83 Resp: 82100
Ion Ratio Lower Upper
83 100
55 87.0 65.8 98.6
98 46.4 35.9 53.9



#38
Bromodichloromethane
Concen: 0.253 ug/L
RT: 7.160 min Scan# 1810
Delta R.T. 0.055 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

Tgt Ion: 83 Resp: 6890
Ion Ratio Lower Upper
83 100
85 12.2 44.8 83.2#
127 0.0 7.0 10.6#

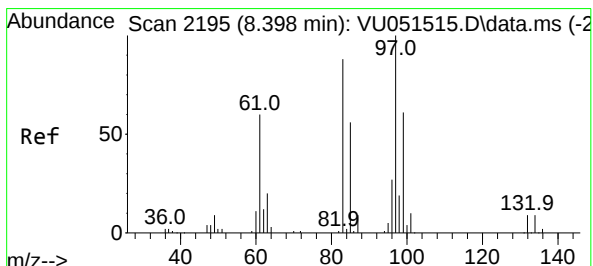
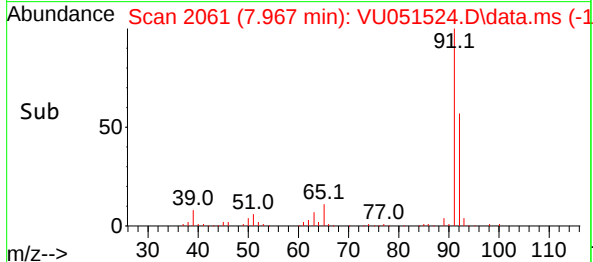
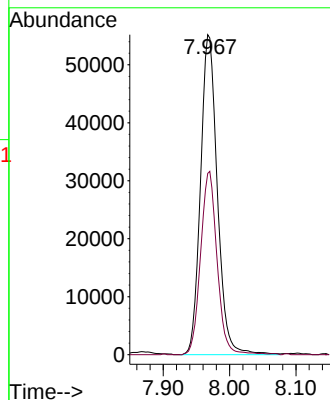
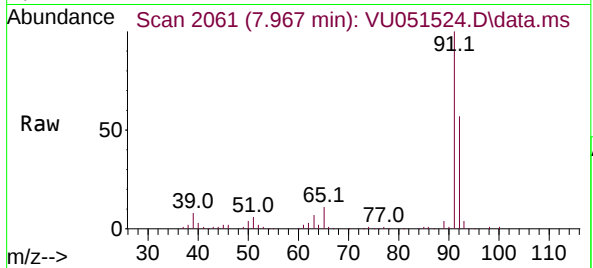




#42
Toluene
Concen: 1.098 ug/L
RT: 7.967 min Scan# 2061
Delta R.T. 0.000 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

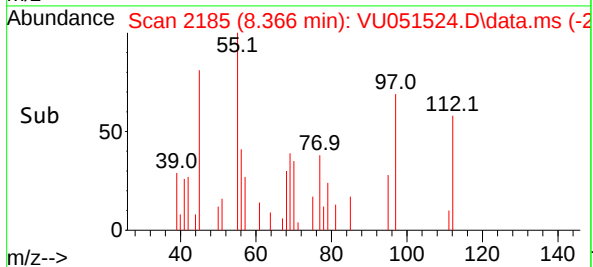
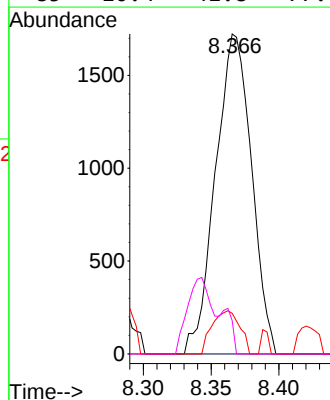
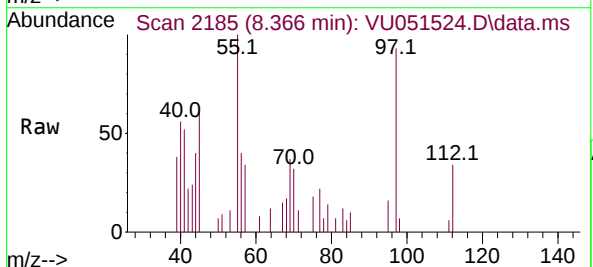
Instrument :
MSVOA_U
ClientSampleId :
BHA74

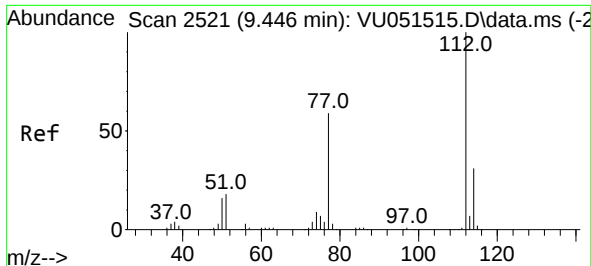
Tgt Ion: 91 Resp: 97236
Ion Ratio Lower Upper
91 100
92 56.6 39.9 74.1



#45
1,1,2-Trichloroethane
Concen: 0.198 ug/L
RT: 8.366 min Scan# 2185
Delta R.T. -0.032 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

Tgt Ion: 97 Resp: 3180
Ion Ratio Lower Upper
97 100
99 0.0 45.3 84.1#
83 12.7 63.1 117.1#
85 10.4 41.8 77.6#

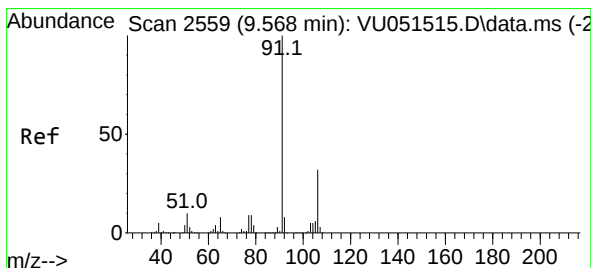
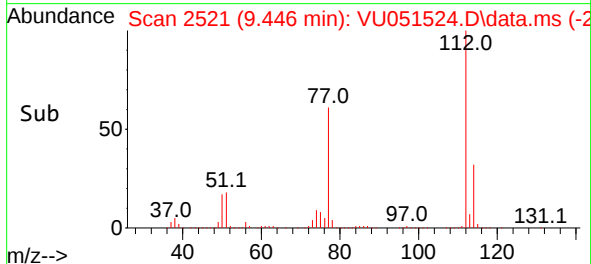
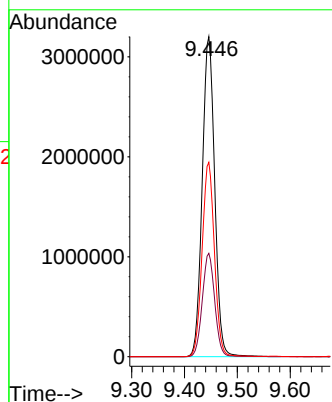
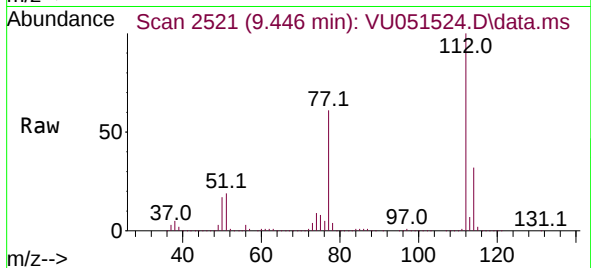




#51
Chlorobenzene
Concen: 99.135 ug/L
RT: 9.446 min Scan# 2521
Delta R.T. 0.000 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

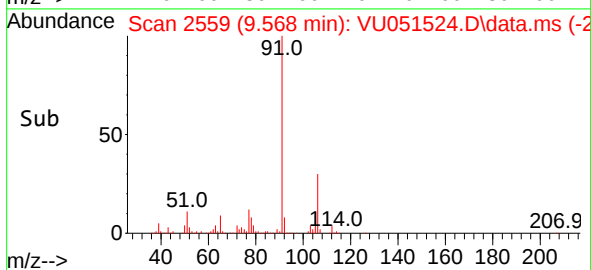
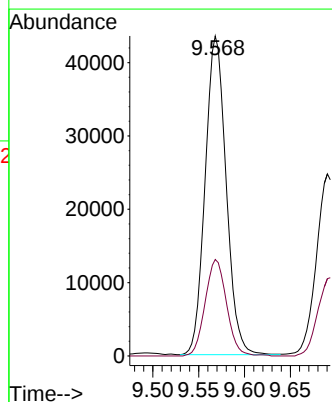
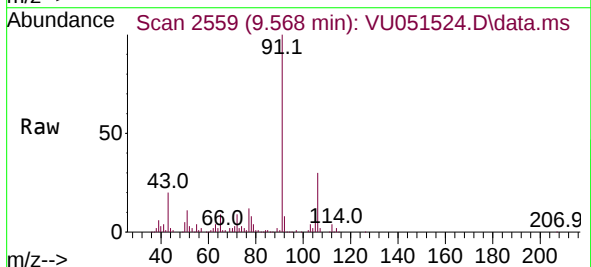
Instrument :
MSVOA_U
ClientSampleId :
BHA74

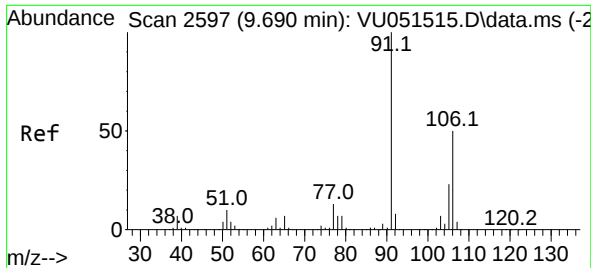
Tgt Ion:112 Resp: 5245396
Ion Ratio Lower Upper
112 100
114 32.3 22.3 41.5
77 60.8 48.1 72.1



#52
Ethylbenzene
Concen: 0.870 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. 0.000 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

Tgt Ion: 91 Resp: 69228
Ion Ratio Lower Upper
91 100
106 30.2 20.9 38.7

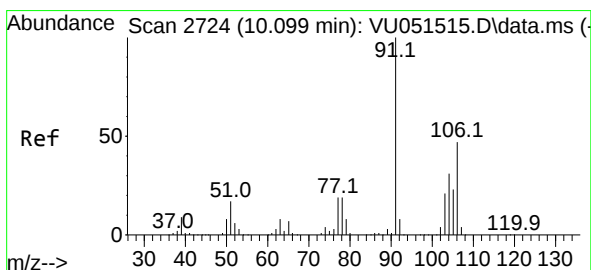
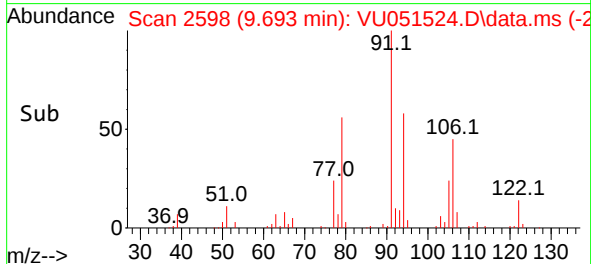
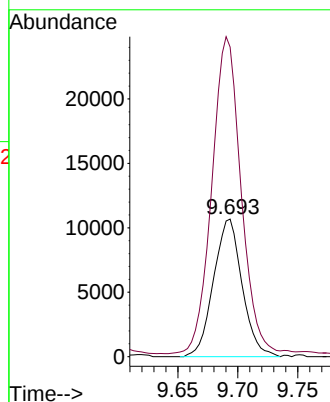
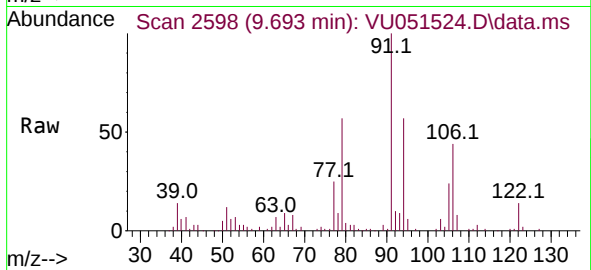




#53
m,p-Xylene
Concen: 0.573 ug/L
RT: 9.693 min Scan# 2597
Delta R.T. 0.003 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

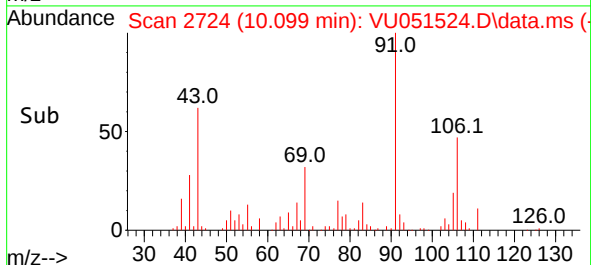
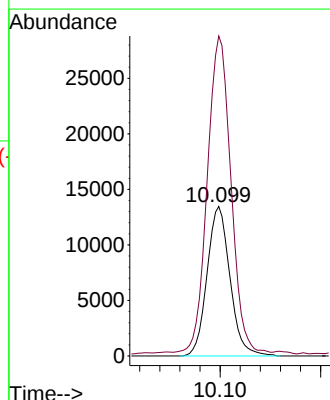
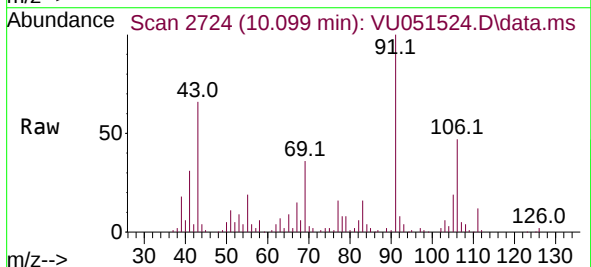
Instrument :
MSVOA_U
ClientSampleId :
BHA74

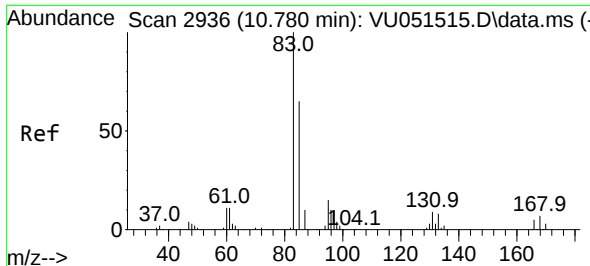
Tgt Ion:106 Resp: 17676
Ion Ratio Lower Upper
106 100
91 225.0 143.9 267.3



#54
o-Xylene
Concen: 0.729 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. 0.000 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

Tgt Ion:106 Resp: 21295
Ion Ratio Lower Upper
106 100
91 214.2 154.4 286.8





#57

1,1,2,2-Tetrachloroethane

Concen: 0.195 ug/L

RT: 10.783 min Scan# 2936

Delta R.T. 0.003 min

Lab File: VU051524.D

Acq: 27 Oct 2022 00:50

Instrument :

MSVOA_U

ClientSampleId :

BHA74

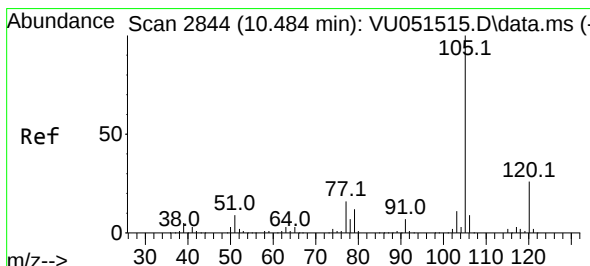
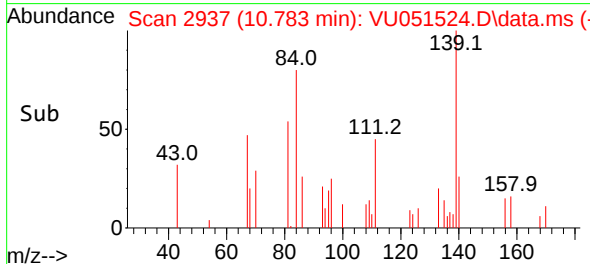
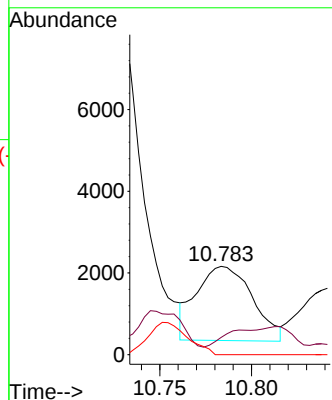
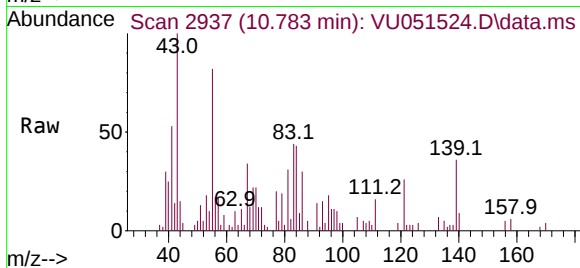
Tgt Ion: 83 Resp: 3867

Ion Ratio Lower Upper

83 100

85 19.5 45.9 85.3#

131 0.0 7.4 11.2#



#60

Isopropylbenzene

Concen: 7.149 ug/L

RT: 10.481 min Scan# 2843

Delta R.T. -0.003 min

Lab File: VU051524.D

Acq: 27 Oct 2022 00:50

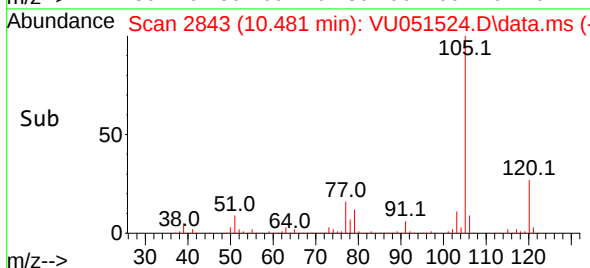
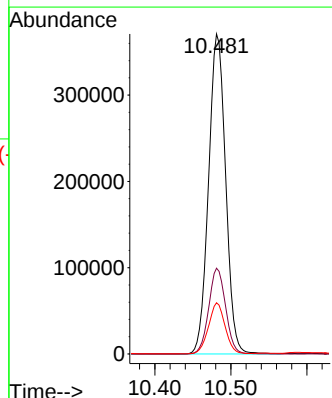
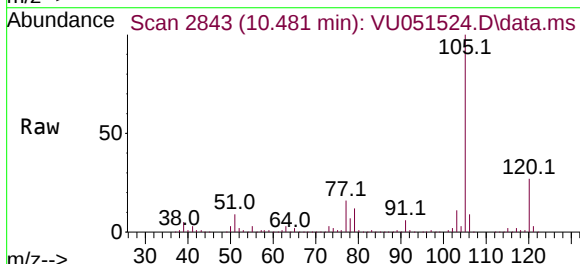
Tgt Ion:105 Resp: 578367

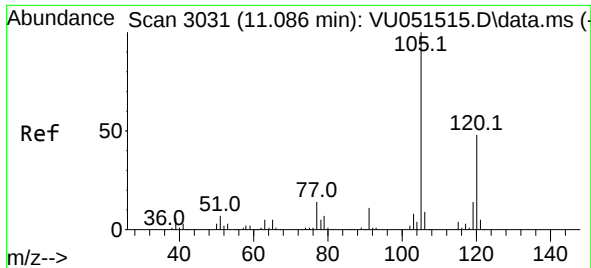
Ion Ratio Lower Upper

105 100

120 26.5 20.6 30.8

77 0.0 13.5 20.3#

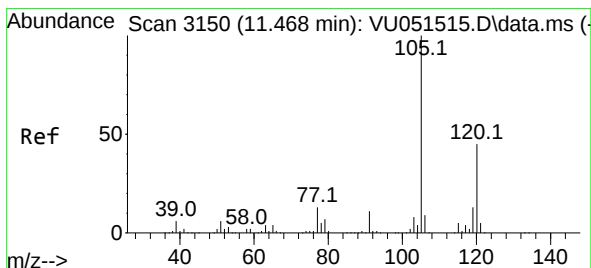
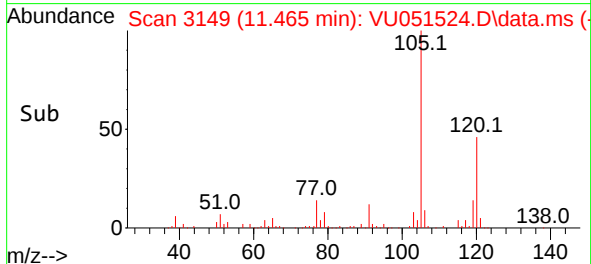
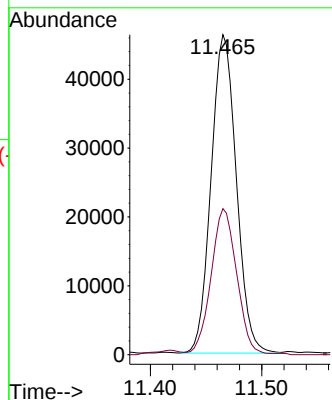
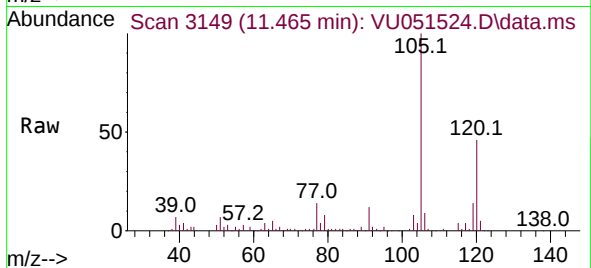




#62
1,3,5-Trimethylbenzene
Concen: 3.390 ug/L
RT: 11.465 min Scan# 3149
Delta R.T. 0.379 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

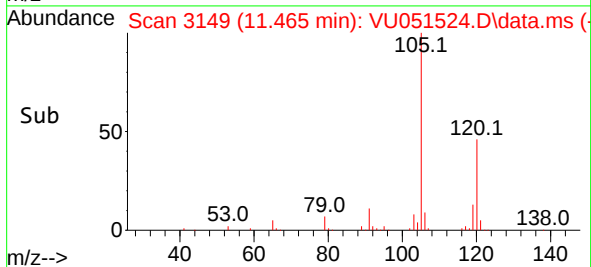
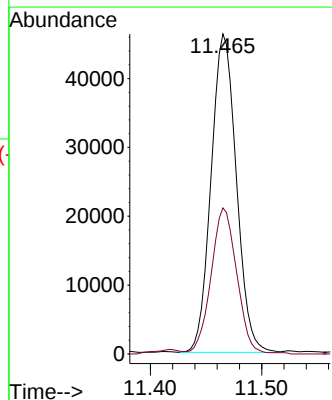
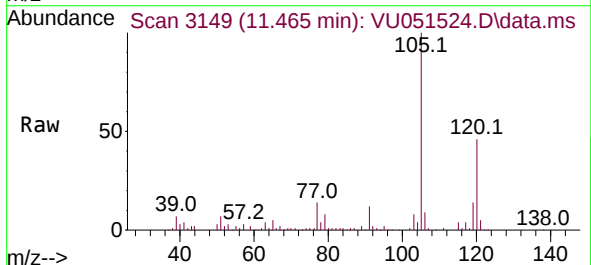
Instrument :
MSVOA_U
ClientSampleId :
BHA74

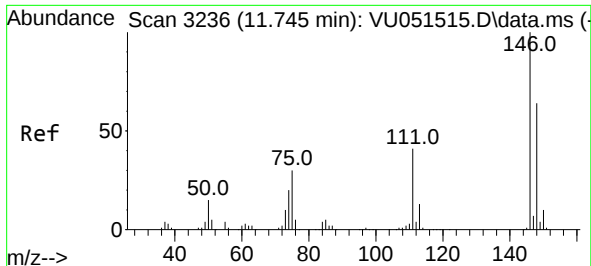
Tgt Ion:105 Resp: 72754
Ion Ratio Lower Upper
105 100
120 45.5 37.7 56.5



#63
1,2,4-Trimethylbenzene
Concen: 1.199 ug/L
RT: 11.465 min Scan# 3149
Delta R.T. -0.003 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

Tgt Ion:105 Resp: 72754
Ion Ratio Lower Upper
105 100
120 45.5 35.6 53.4

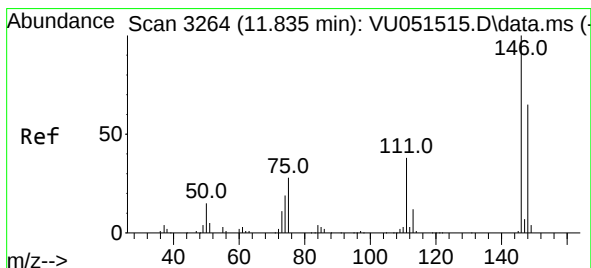
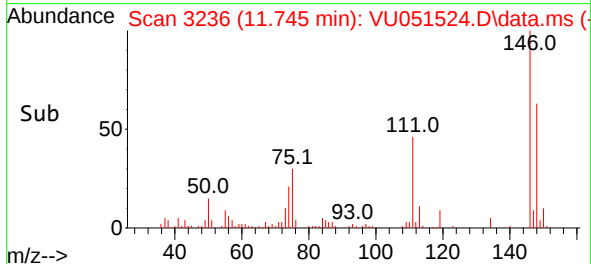
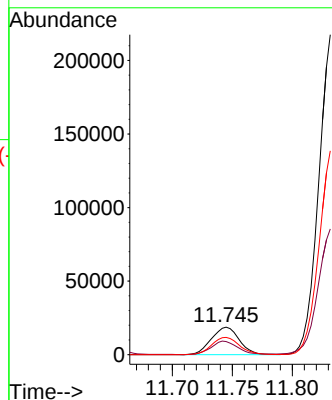
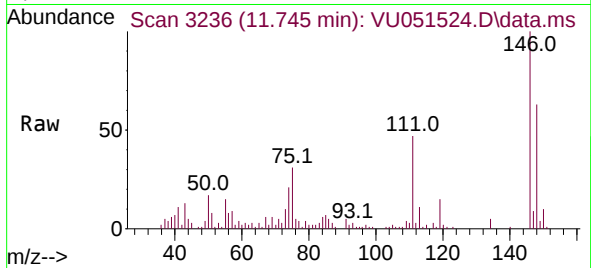




#64
1,3-Dichlorobenzene
Concen: 0.757 ug/L
RT: 11.745 min Scan# 31
Delta R.T. 0.000 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

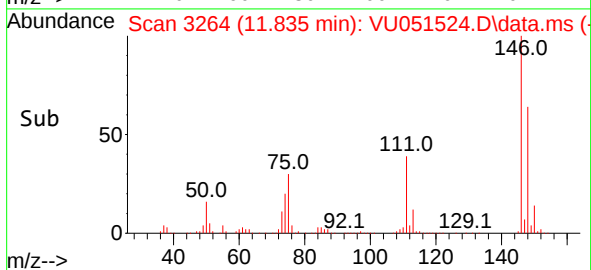
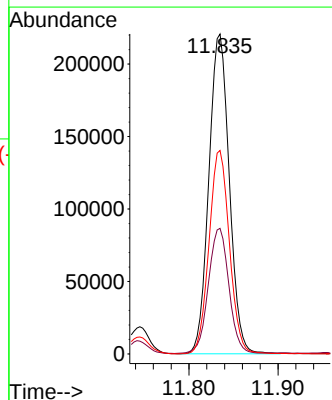
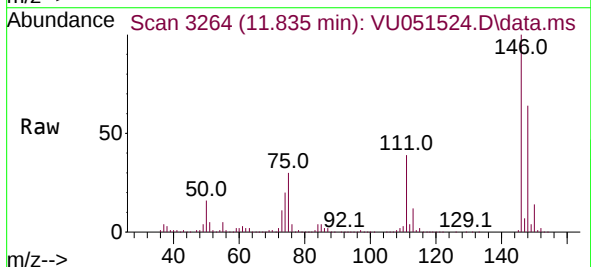
Instrument :
MSVOA_U
ClientSampleId :
BHA74

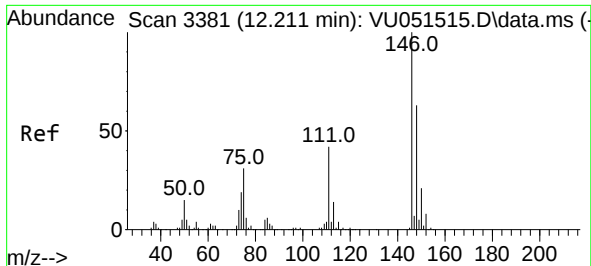
Tgt Ion:146 Resp: 30285
Ion Ratio Lower Upper
146 100
111 47.4 28.3 52.7
148 62.7 43.8 81.4



#65
1,4-Dichlorobenzene
Concen: 8.909 ug/L
RT: 11.835 min Scan# 3264
Delta R.T. 0.000 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

Tgt Ion:146 Resp: 351407
Ion Ratio Lower Upper
146 100
111 39.2 29.1 54.1
148 63.6 44.2 82.0





#67

1,2-Dichlorobenzene

Concen: 2.744 ug/L

RT: 12.211 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU051524.D

Acq: 27 Oct 2022 00:50

Instrument :

MSVOA_U

ClientSampleId :

BHA74

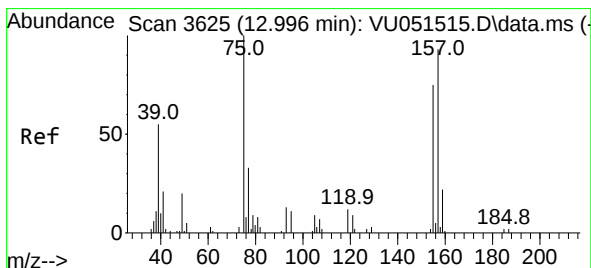
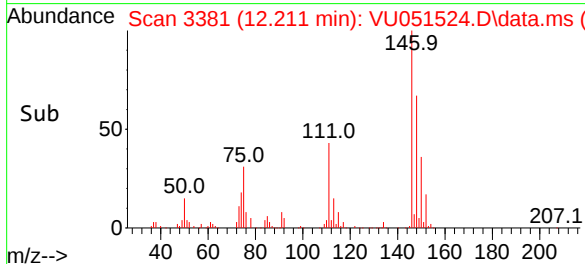
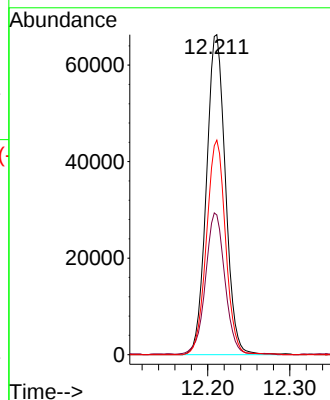
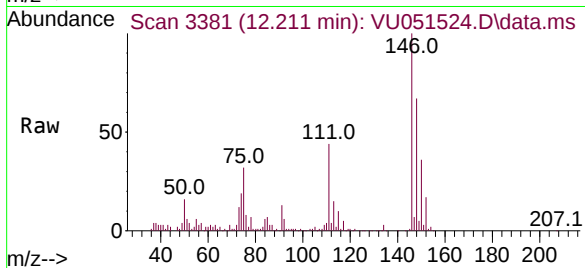
Tgt Ion:146 Resp: 106740

Ion Ratio Lower Upper

146 100

111 43.7 35.5 53.3

148 67.0 50.9 76.3



#68

1,2-Dibromo-3-chloropropane

Concen: 0.450 ug/L

RT: 12.970 min Scan# 3617

Delta R.T. -0.026 min

Lab File: VU051524.D

Acq: 27 Oct 2022 00:50

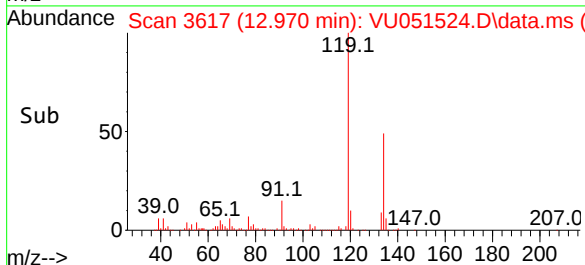
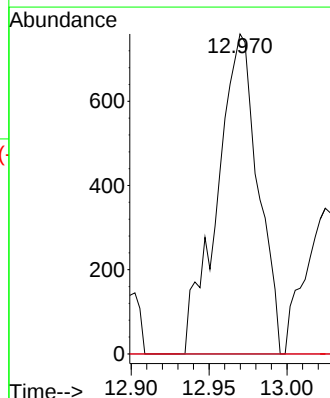
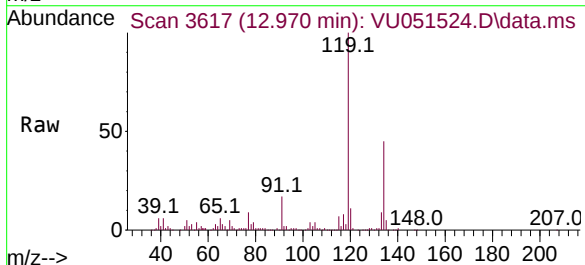
Tgt Ion: 75 Resp: 1388

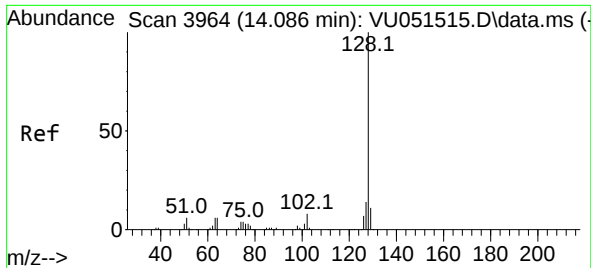
Ion Ratio Lower Upper

75 100

155 0.0 62.7 94.1#

157 0.0 78.3 117.5#





#71
Naphthalene
Concen: 0.901 ug/L
RT: 14.086 min Scan# 3964
Delta R.T. 0.000 min
Lab File: VU051524.D
Acq: 27 Oct 2022 00:50

Instrument :
MSVOA_U
ClientSampleId :
BHA74

Tgt Ion:128 Resp: 32837
Ion Ratio Lower Upper
128 100
129 14.4 8.5 12.7#
127 13.3 11.1 16.7

