

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100922\
 Data File : VU051303.D
 Acq On : 09 Oct 2022 16:27
 Operator : JC/MD
 Sample : N5013-02
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BHA39

Quant Time: Oct 10 01:27:56 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR100722WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Mon Oct 10 01:25:26 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	210014	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	211570	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	102463	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	64986	3.836	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.800%
7) Chloroethane-d5	1.909	69	63404	4.356	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.200%
11) 1,1-Dichloroethene-d2	2.565	65	27551	4.114	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	82.200%
20) 2-Butanone-d5	4.620	46	230754	61.868	ug/L	-0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	123.740%
24) Chloroform-d	5.060	84	147546	4.672	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.400%
26) 1,2-Dichloroethane-d4	5.700	65	83742	5.141	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.800%
32) Benzene-d6	5.726	84	280554	4.820	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.400%
36) 1,2-Dichloropropane-d6	6.690	67	99190	5.018	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.400%
41) Toluene-d8	7.896	98	215758	4.143	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.800%
43) trans-1,3-Dichloroprop...	8.179	79	32009	4.929	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.600%
46) 2-Hexanone-d5	8.632	63	130183	59.479	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	118.960%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	87819	5.562	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	111.200%
66) 1,2-Dichlorobenzene-d4	12.192	152	92072	5.170	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.400%
Target Compounds						
					Qvalue	
8) Chloroethane	1.932	64	16341	1.086	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.565	101	768	0.047	ug/L #	21
15) Methyl Acetate	3.076	43	19901	2.926	ug/L #	50
17) Methyl tert-butyl Ether	3.362	73	14309	0.408	ug/L #	1
22) cis-1,2-Dichloroethene	4.668	96	3484	0.195	ug/L	90
27) 1,2-Dichloroethane	5.774	62	26875	1.292	ug/L #	74
30) Cyclohexane	5.382	56	7074	0.329	ug/L	95
33) Benzene	5.771	78	3331958	47.174	ug/L	100
35) Methylcyclohexane	6.764	83	5947	0.268	ug/L #	84
37) 1,2-Dichloropropane	6.690	63	10278	0.531	ug/L #	96
42) Toluene	7.970	91	126081	1.682	ug/L	97
51) Chlorobenzene	9.446	112	679091	15.160	ug/L	99
52) Ethylbenzene	9.568	91	37029	0.550	ug/L	100
53) m,p-Xylene	9.690	106	239864	9.180	ug/L	97
54) o-Xylene	10.098	106	110275	4.460	ug/L	98
55) Styrene	10.098	104	9206	0.216	ug/L #	1
60) Isopropylbenzene	10.484	105	118951	1.833	ug/L	99
61) 1,2,3-Trichloropropane	10.098	75	2729	0.211	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.089	105	17362	1.008	ug/L	96

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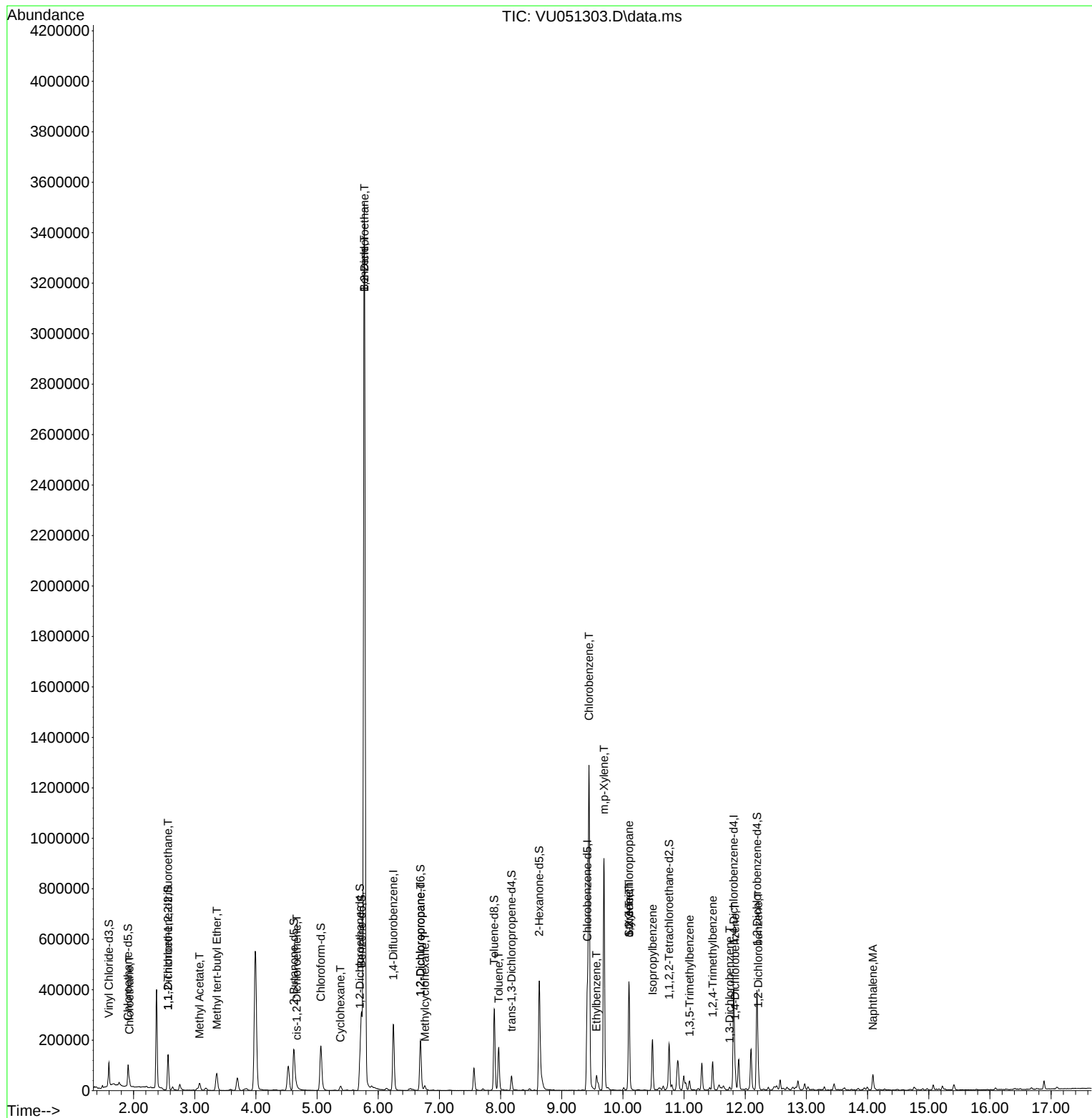
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	11.468	105	56865	1.168	ug/L	100
64) 1,3-Dichlorobenzene	11.745	146	3366	0.105	ug/L	93
65) 1,4-Dichlorobenzene	11.835	146	26286	0.831	ug/L	95
67) 1,2-Dichlorobenzene	12.211	146	25813	0.827	ug/L	96
71) Naphthalene	14.085	128	50482	1.727	ug/L	97

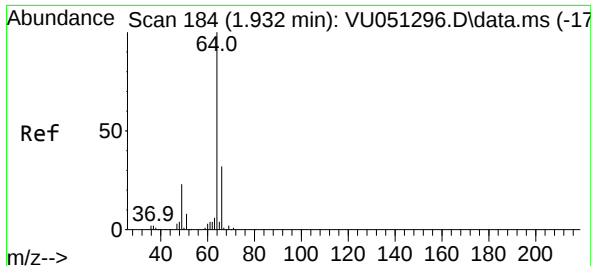
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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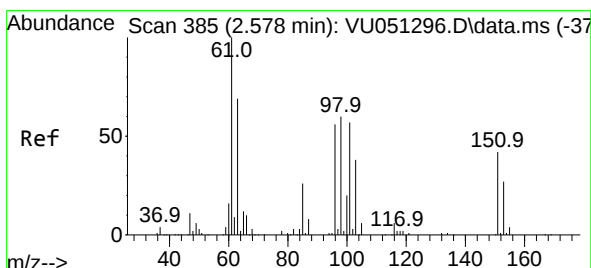
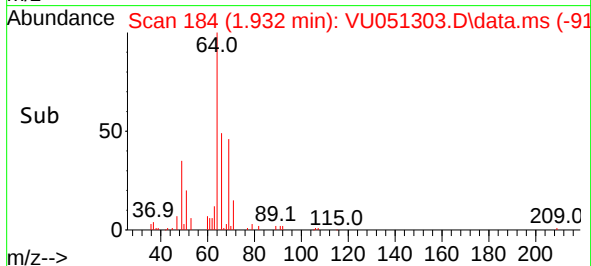
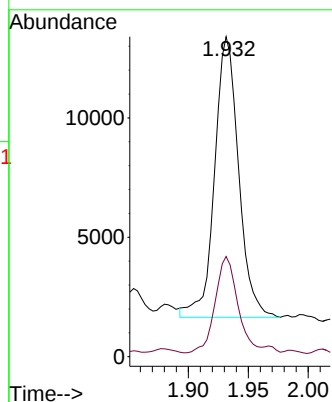
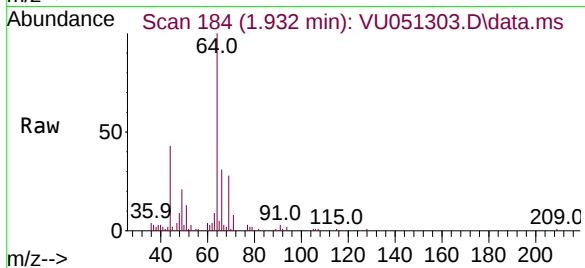




#8
Chloroethane
Concen: 1.086 ug/L
RT: 1.932 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU051303.D
Acq: 09 Oct 2022 16:27

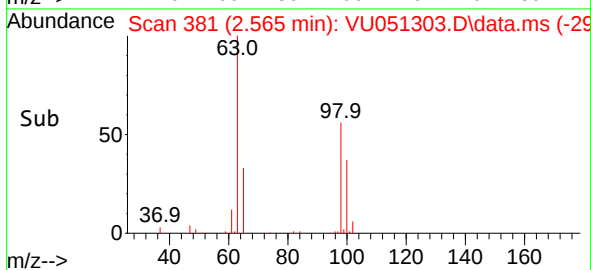
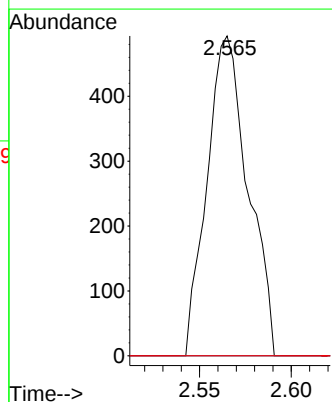
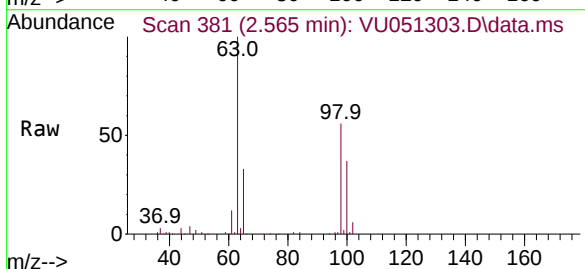
Instrument :
MSVOA_U
ClientSampleId :
BHA39

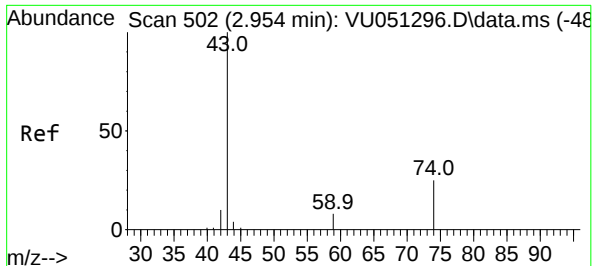
Tgt Ion: 64 Resp: 16341
Ion Ratio Lower Upper
64 100
66 31.3 22.3 41.3



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.047 ug/L
RT: 2.565 min Scan# 381
Delta R.T. -0.013 min
Lab File: VU051303.D
Acq: 09 Oct 2022 16:27

Tgt Ion: 101 Resp: 768
Ion Ratio Lower Upper
101 100
85 0.0 34.6 51.8#
151 0.0 56.5 84.7#

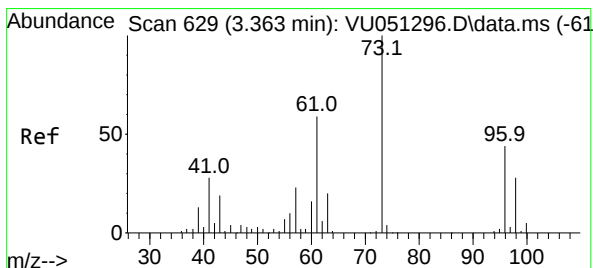
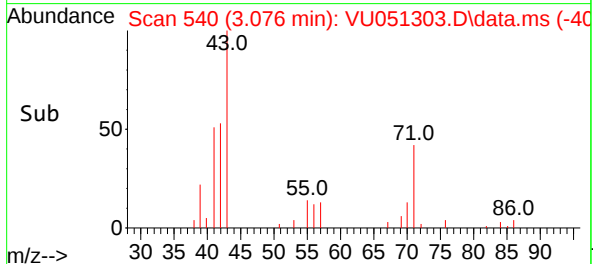
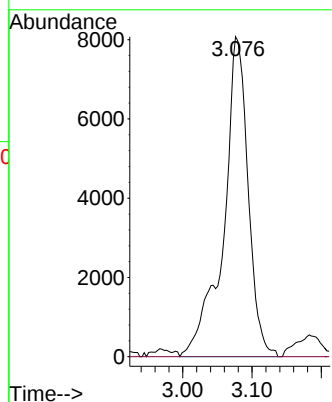
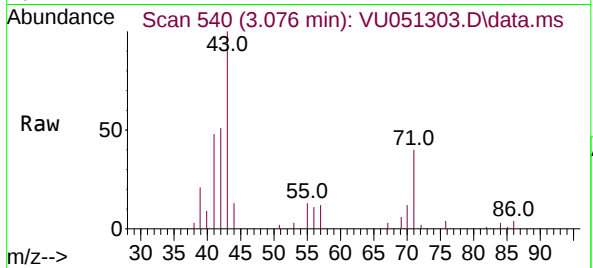




#15
Methyl Acetate
Concen: 2.926 ug/L
RT: 3.076 min Scan# 54
Delta R.T. 0.122 min
Lab File: VU051303.D
Acq: 09 Oct 2022 16:27

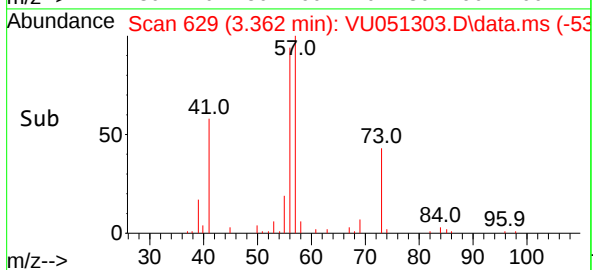
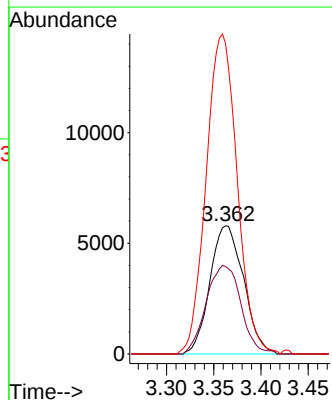
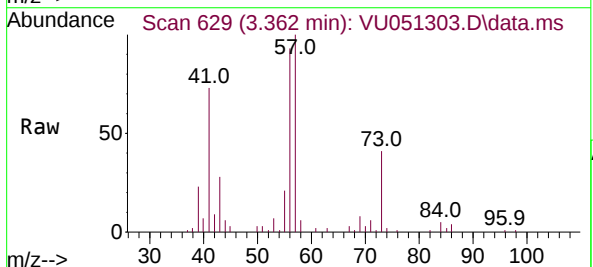
Instrument :
MSVOA_U
ClientSampleId :
BHA39

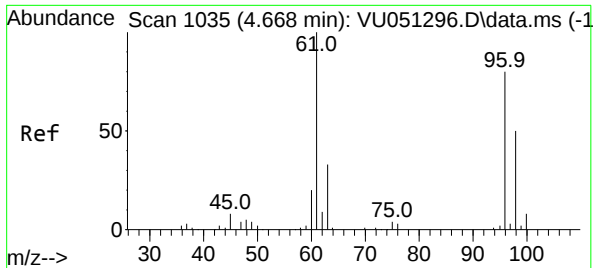
Tgt Ion: 43 Resp: 19901
Ion Ratio Lower Upper
43 100
74 0.0 20.0 30.0#



#17
Methyl tert-butyl Ether
Concen: 0.408 ug/L
RT: 3.362 min Scan# 629
Delta R.T. -0.000 min
Lab File: VU051303.D
Acq: 09 Oct 2022 16:27

Tgt Ion: 73 Resp: 14309
Ion Ratio Lower Upper
73 100
43 71.1 15.4 23.0#
57 230.3 18.9 28.3#

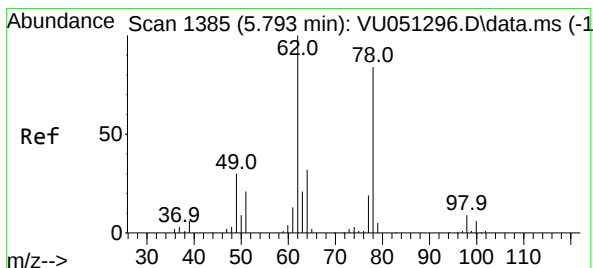
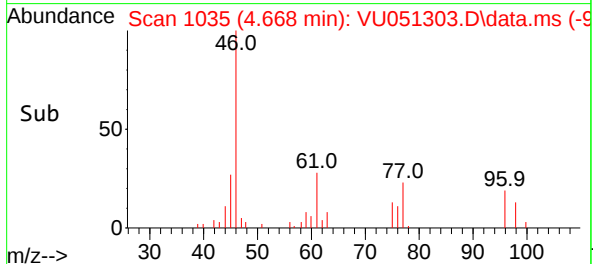
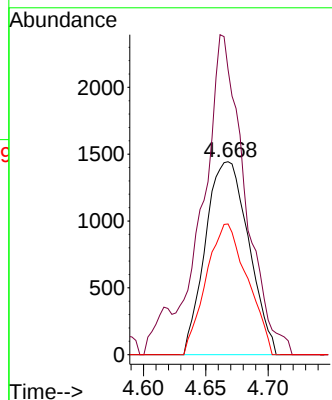
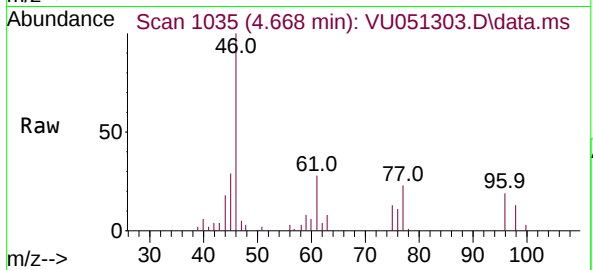




#22
 cis-1,2-Dichloroethene
 Concen: 0.195 ug/L
 RT: 4.668 min Scan# 1035
 Delta R.T. -0.000 min
 Lab File: VU051303.D
 Acq: 09 Oct 2022 16:27

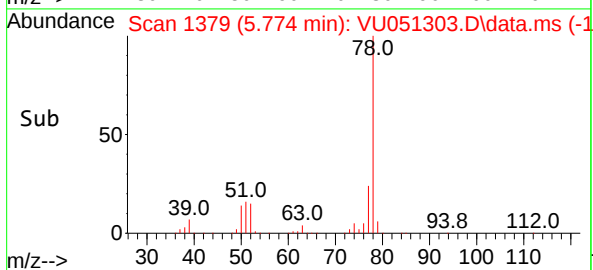
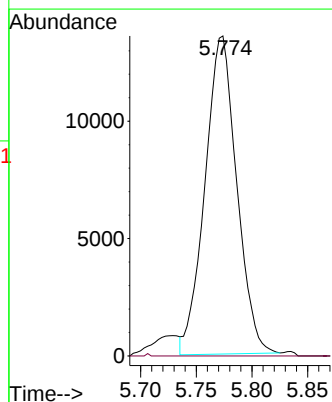
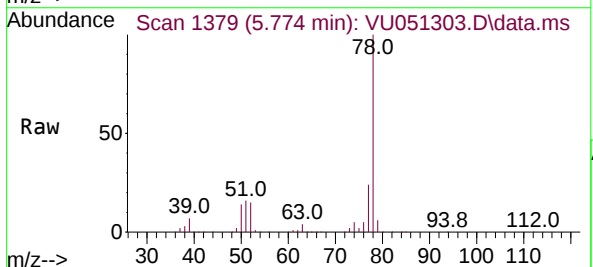
Instrument :
 MSVOA_U
 ClientSampleId :
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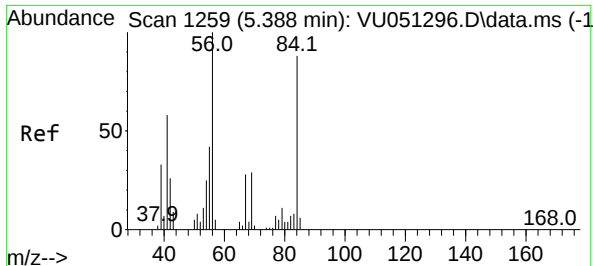
Tgt Ion: 96 Resp: 3484
 Ion Ratio Lower Upper
 96 100
 61 147.8 90.6 168.2
 98 67.7 47.5 88.3



#27
 1,2-Dichloroethane
 Concen: 1.292 ug/L
 RT: 5.774 min Scan# 1379
 Delta R.T. -0.020 min
 Lab File: VU051303.D
 Acq: 09 Oct 2022 16:27

Tgt Ion: 62 Resp: 26875
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.7 11.5#





#30

Cyclohexane

Concen: 0.329 ug/L

RT: 5.382 min Scan# 11

Delta R.T. -0.007 min

Lab File: VU051303.D

Acq: 09 Oct 2022 16:27

Instrument :

MSVOA_U

ClientSampleId :

BHA39

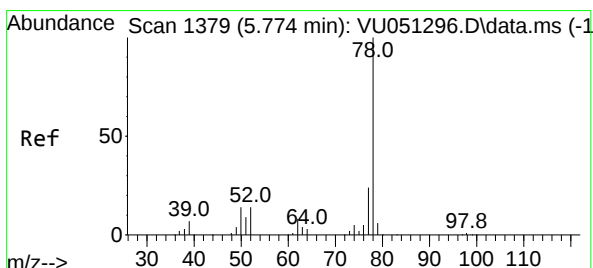
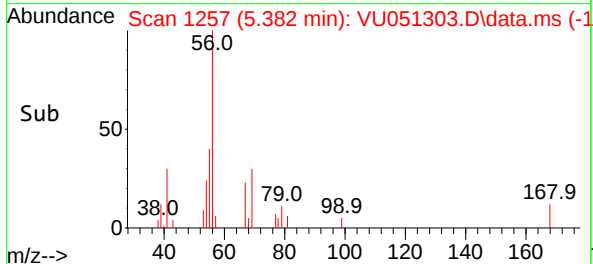
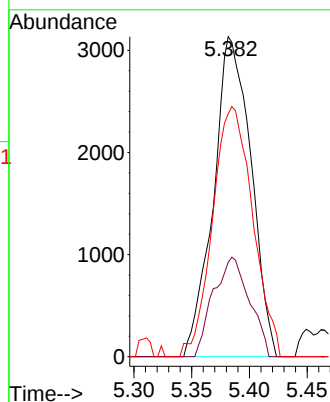
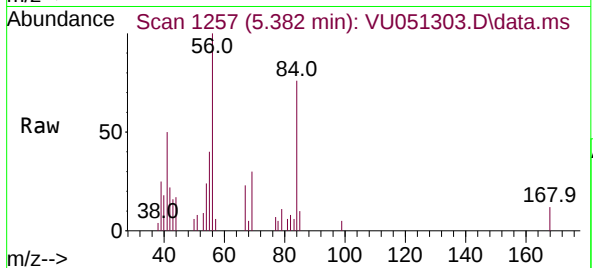
Tgt Ion: 56 Resp: 7074

Ion Ratio Lower Upper

56 100

69 29.9 25.1 37.7

84 83.5 70.9 106.3



#33

Benzene

Concen: 47.174 ug/L

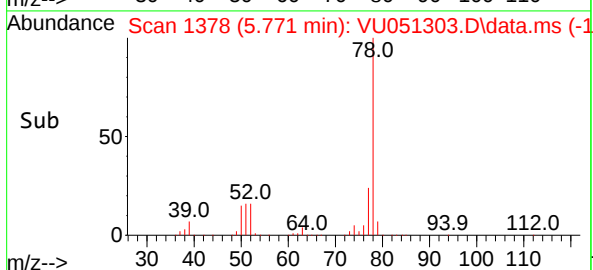
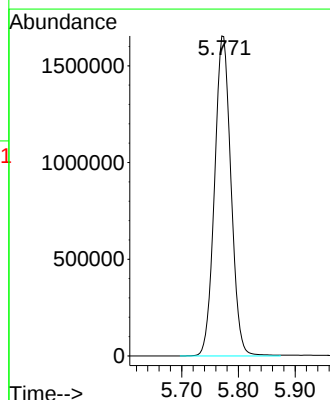
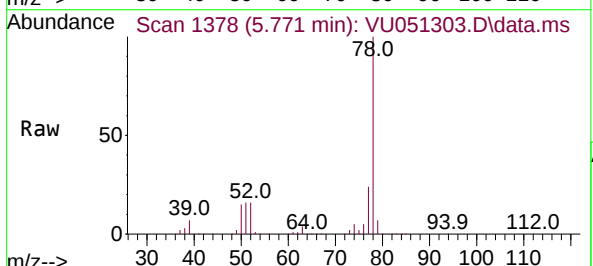
RT: 5.771 min Scan# 1378

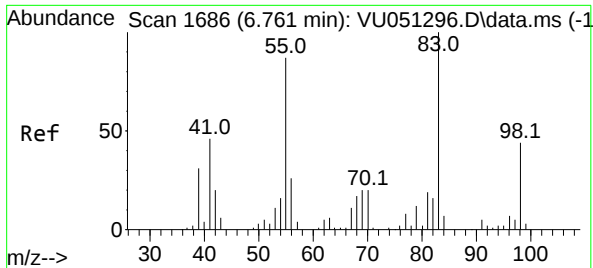
Delta R.T. -0.003 min

Lab File: VU051303.D

Acq: 09 Oct 2022 16:27

Tgt Ion: 78 Resp: 3331958





#35

Methylcyclohexane

Concen: 0.268 ug/L

RT: 6.764 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU051303.D

Acq: 09 Oct 2022 16:27

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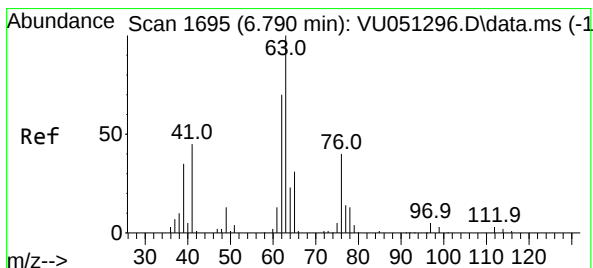
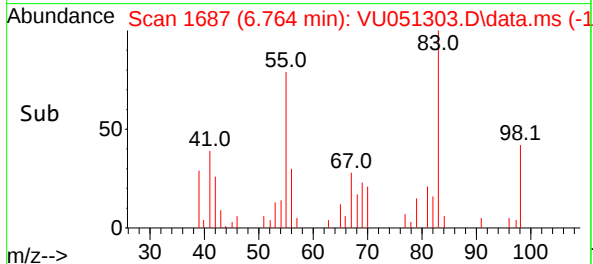
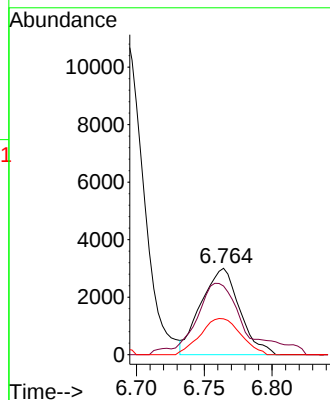
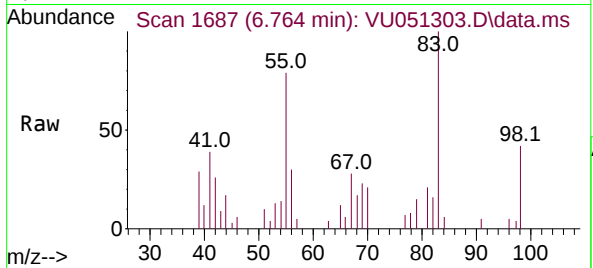
Tgt Ion: 83 Resp: 5947

Ion Ratio Lower Upper

83 100

55 103.1 65.8 98.6#

98 43.7 35.9 53.9



#37

1,2-Dichloropropane

Concen: 0.531 ug/L

RT: 6.690 min Scan# 1664

Delta R.T. -0.100 min

Lab File: VU051303.D

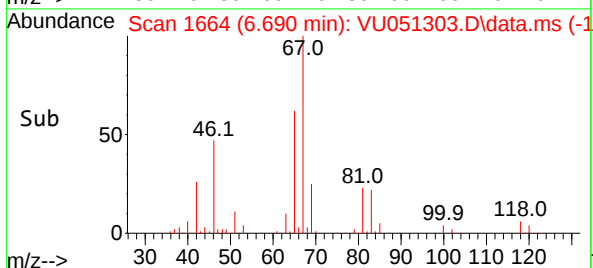
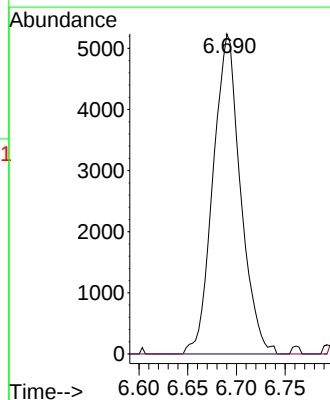
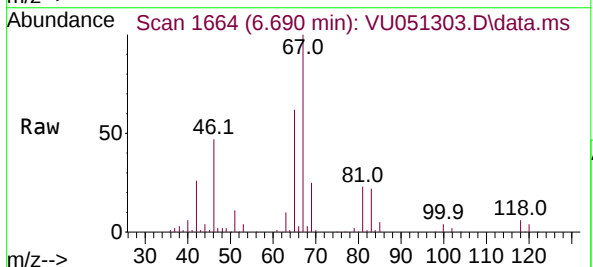
Acq: 09 Oct 2022 16:27

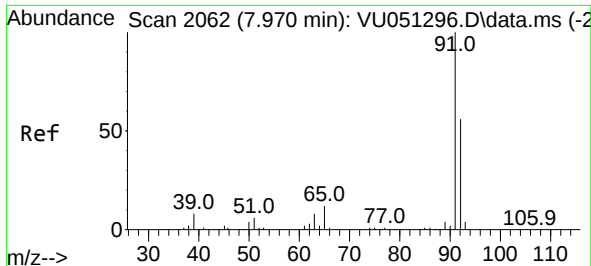
Tgt Ion: 63 Resp: 10278

Ion Ratio Lower Upper

63 100

112 2.5 3.2 4.8#





#42

Toluene

Concen: 1.682 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VU051303.D

Acq: 09 Oct 2022 16:27

Instrument :

MSVOA_U

ClientSampleId :

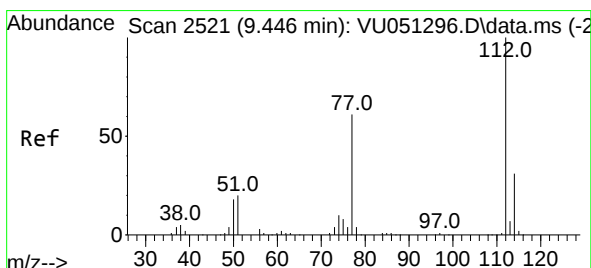
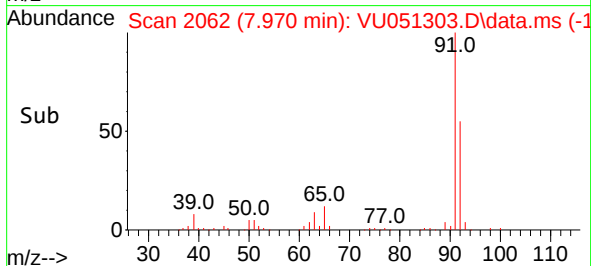
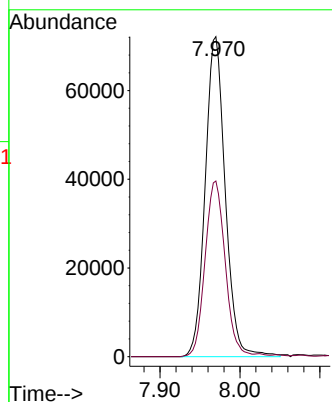
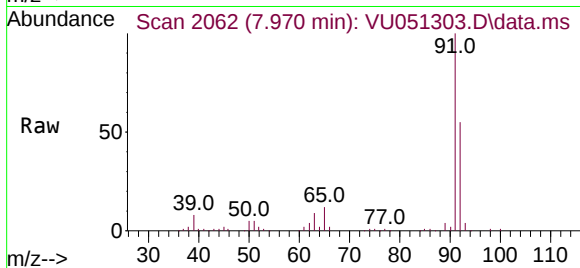
BHA39

Tgt Ion: 91 Resp: 126081

Ion Ratio Lower Upper

91 100

92 54.9 39.9 74.1



#51

Chlorobenzene

Concen: 15.160 ug/L

RT: 9.446 min Scan# 2521

Delta R.T. -0.000 min

Lab File: VU051303.D

Acq: 09 Oct 2022 16:27

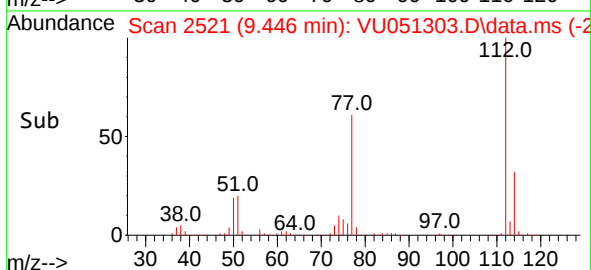
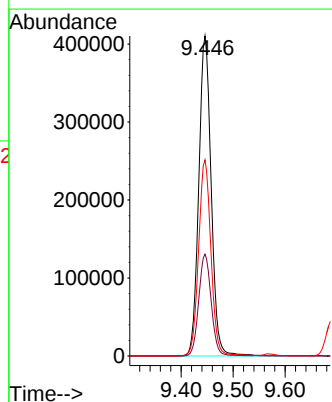
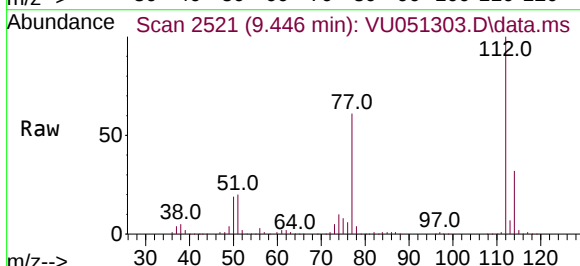
Tgt Ion: 112 Resp: 679091

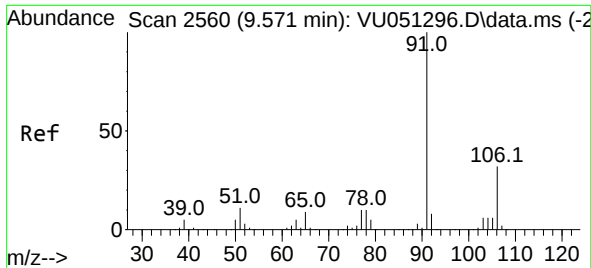
Ion Ratio Lower Upper

112 100

114 31.8 22.3 41.5

77 61.3 48.1 72.1

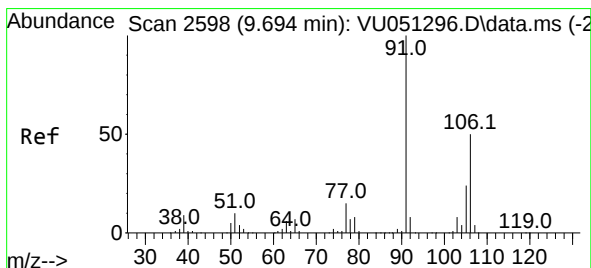
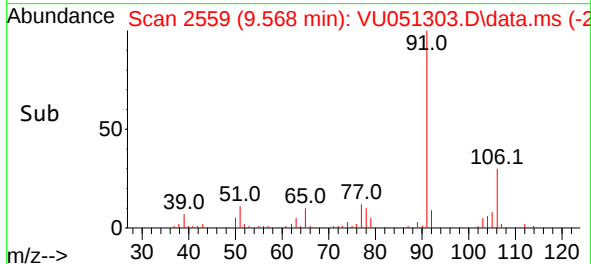
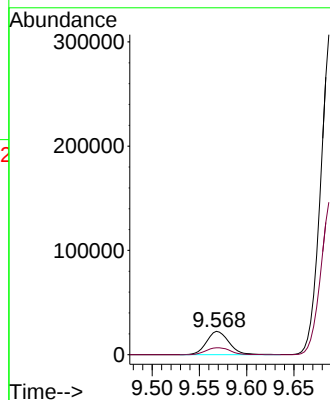
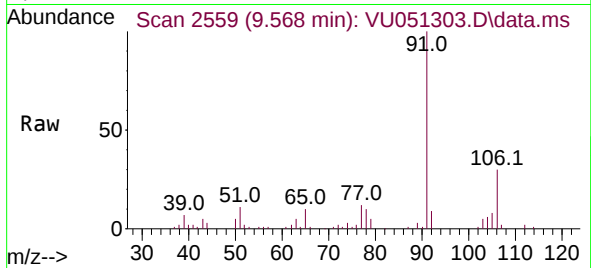




#52
Ethylbenzene
Concen: 0.550 ug/L
RT: 9.568 min Scan# 2559
Delta R.T. -0.003 min
Lab File: VU051303.D
Acq: 09 Oct 2022 16:27

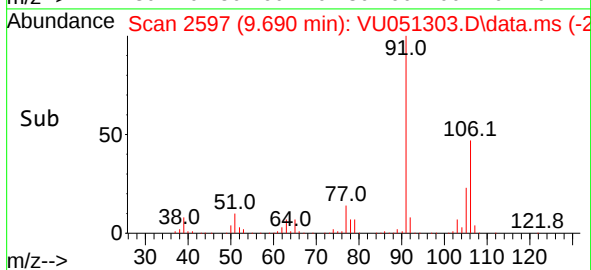
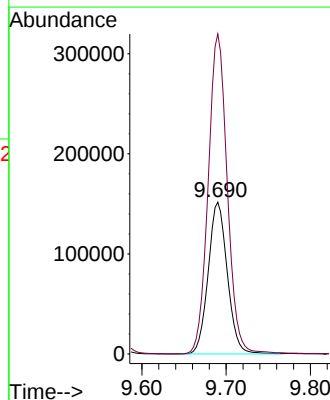
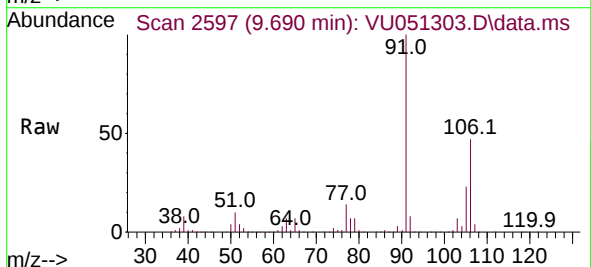
Instrument :
MSVOA_U
ClientSampleId :
BHA39

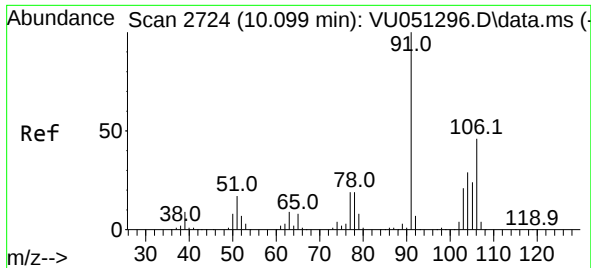
Tgt Ion: 91 Resp: 37029
Ion Ratio Lower Upper
91 100
106 29.5 20.9 38.7



#53
m,p-Xylene
Concen: 9.180 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. -0.003 min
Lab File: VU051303.D
Acq: 09 Oct 2022 16:27

Tgt Ion: 106 Resp: 239864
Ion Ratio Lower Upper
106 100
91 210.7 143.9 267.3

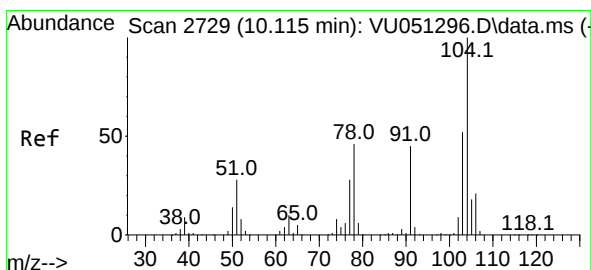
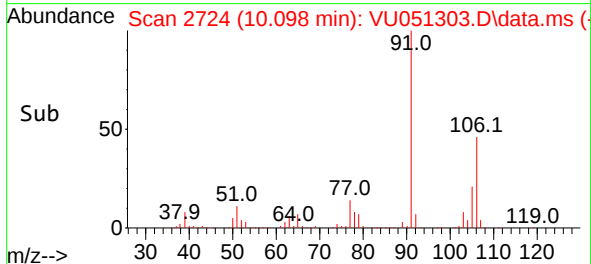
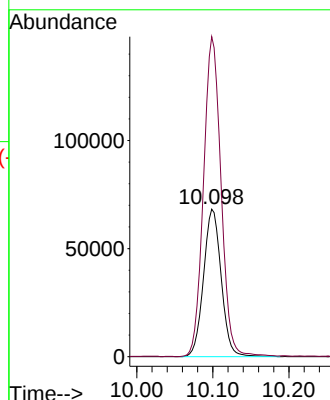
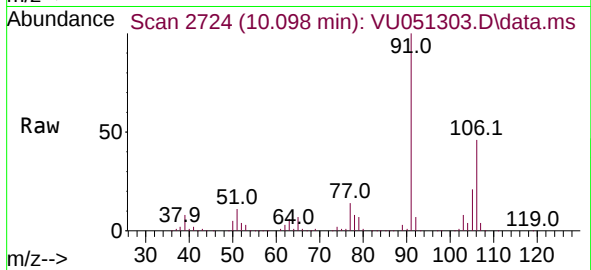




#54
o-Xylene
Concen: 4.460 ug/L
RT: 10.098 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU051303.D
Acq: 09 Oct 2022 16:27

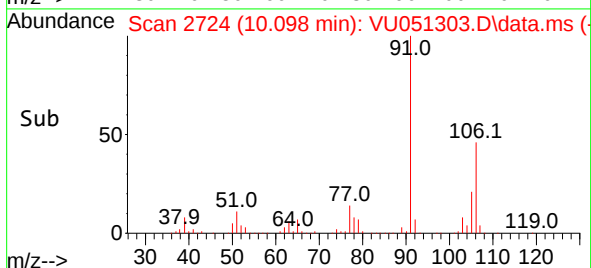
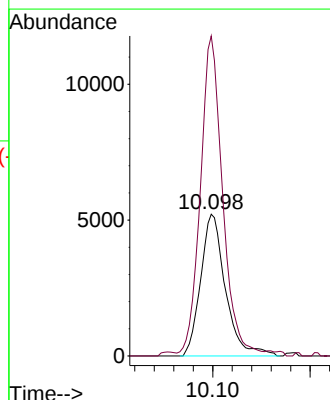
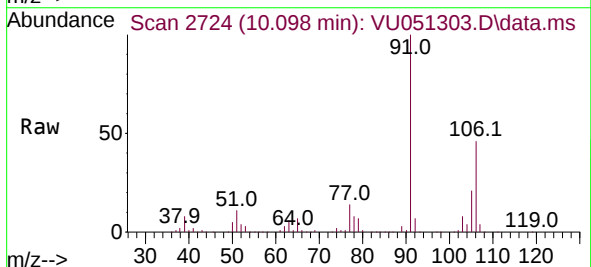
Instrument :
MSVOA_U
ClientSampleId :
BHA39

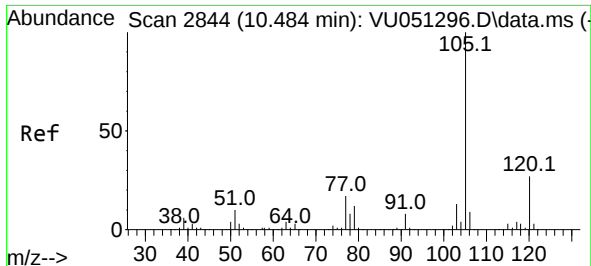
Tgt Ion:106 Resp: 110275
Ion Ratio Lower Upper
106 100
91 216.9 154.4 286.8



#55
Styrene
Concen: 0.216 ug/L
RT: 10.098 min Scan# 2724
Delta R.T. -0.016 min
Lab File: VU051303.D
Acq: 09 Oct 2022 16:27

Tgt Ion:104 Resp: 9206
Ion Ratio Lower Upper
104 100
78 225.8 32.1 59.7#

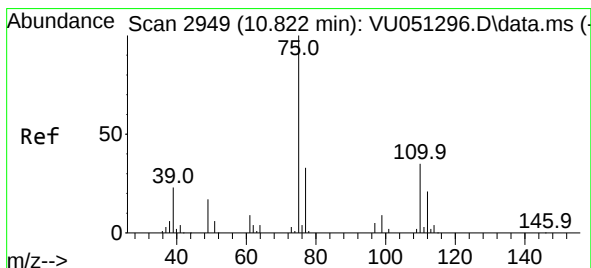
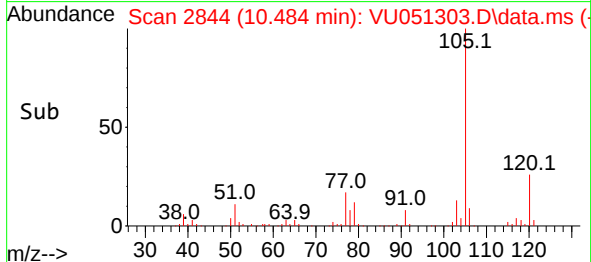
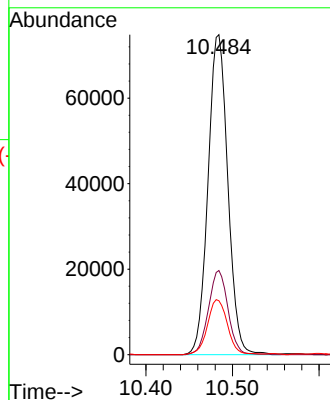
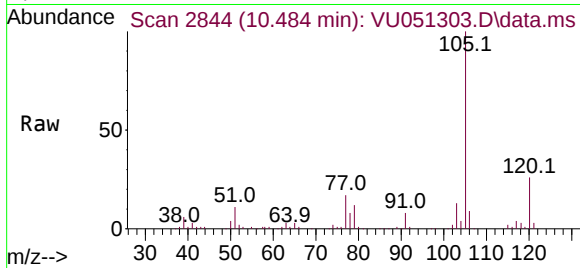




#60
Isopropylbenzene
Concen: 1.833 ug/L
RT: 10.484 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU051303.D
Acq: 09 Oct 2022 16:27

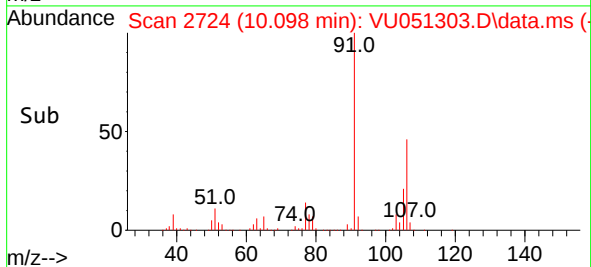
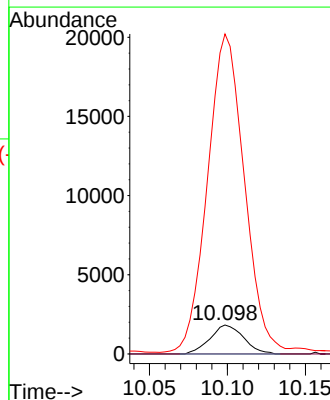
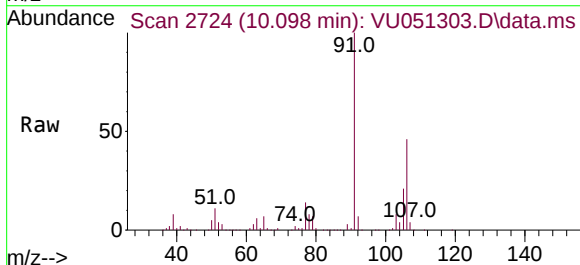
Instrument :
MSVOA_U
ClientSampleId :
BHA39

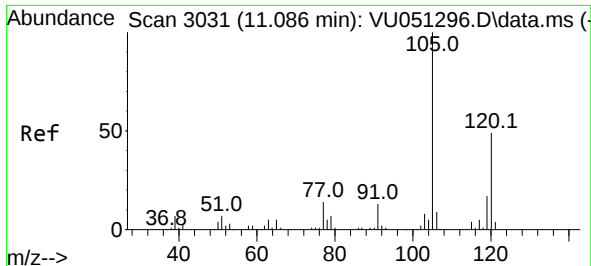
Tgt Ion:105 Resp: 118951
Ion Ratio Lower Upper
105 100
120 26.0 20.6 30.8
77 17.4 13.5 20.3



#61
1,2,3-Trichloropropane
Concen: 0.211 ug/L
RT: 10.098 min Scan# 2724
Delta R.T. -0.724 min
Lab File: VU051303.D
Acq: 09 Oct 2022 16:27

Tgt Ion: 75 Resp: 2729
Ion Ratio Lower Upper
75 100
110 3.0 27.0 40.6#
77 1203.4 26.4 39.6#





#62

1,3,5-Trimethylbenzene

Concen: 1.008 ug/L

RT: 11.089 min Scan# 3031

Delta R.T. 0.003 min

Lab File: VU051303.D

Acq: 09 Oct 2022 16:27

Instrument :

MSVOA_U

ClientSampleId :

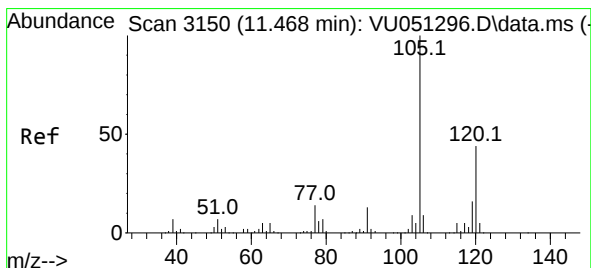
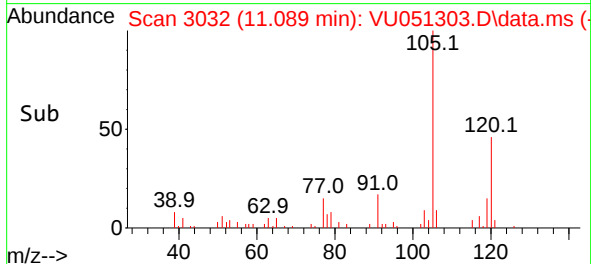
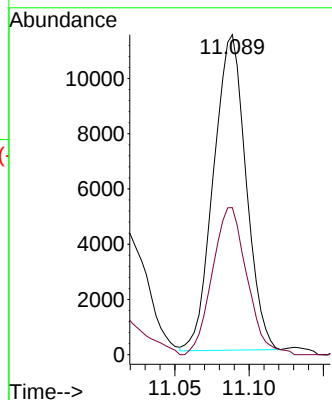
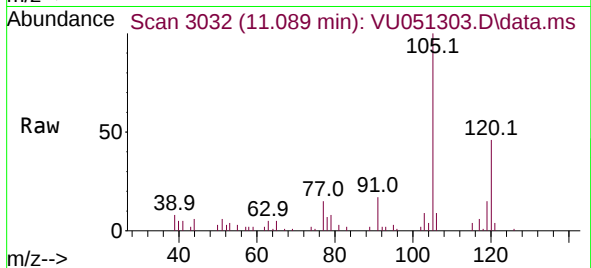
BHA39

Tgt Ion:105 Resp: 17362

Ion Ratio Lower Upper

105 100

120 49.6 37.7 56.5



#63

1,2,4-Trimethylbenzene

Concen: 1.168 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.000 min

Lab File: VU051303.D

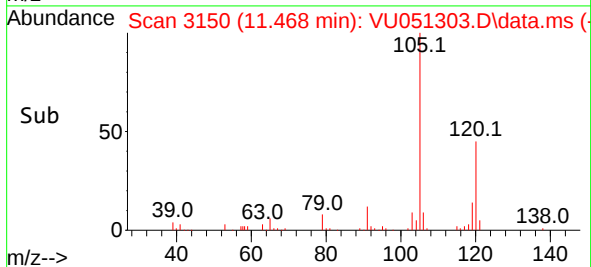
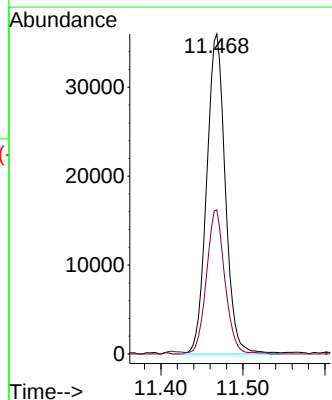
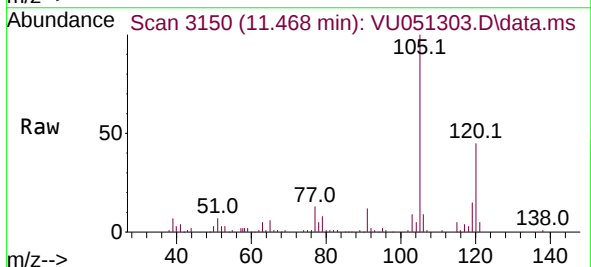
Acq: 09 Oct 2022 16:27

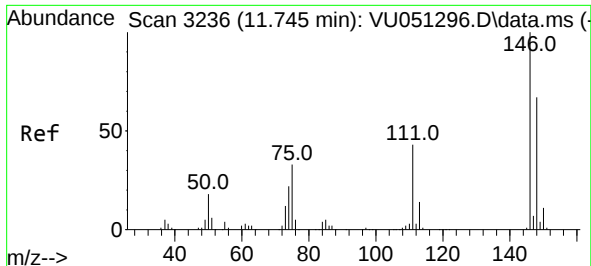
Tgt Ion:105 Resp: 56865

Ion Ratio Lower Upper

105 100

120 44.6 35.6 53.4

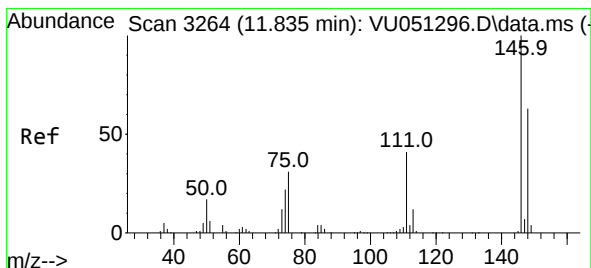
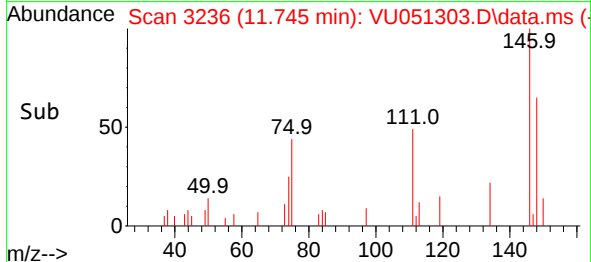
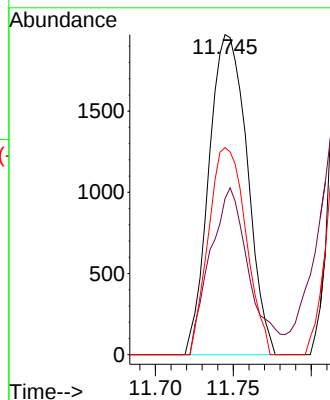
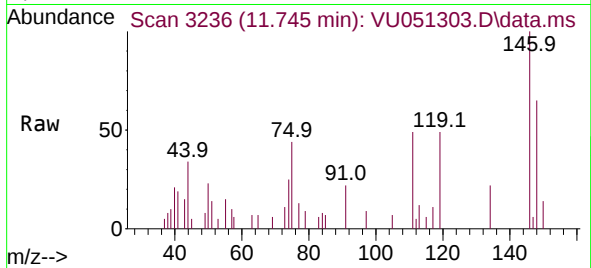




#64
1,3-Dichlorobenzene
Concen: 0.105 ug/L
RT: 11.745 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU051303.D
Acq: 09 Oct 2022 16:27

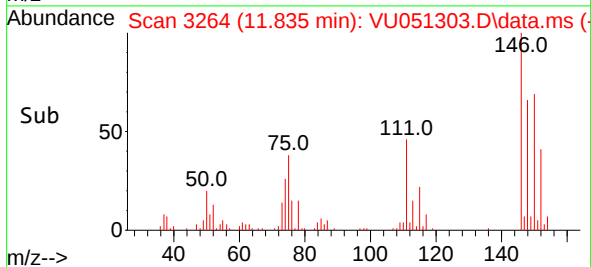
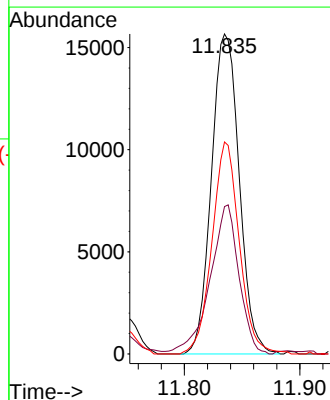
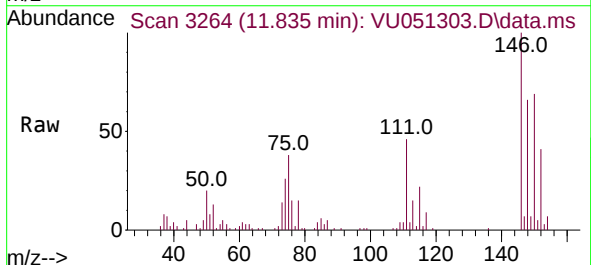
Instrument :
MSVOA_U
ClientSampleId :
BHA39

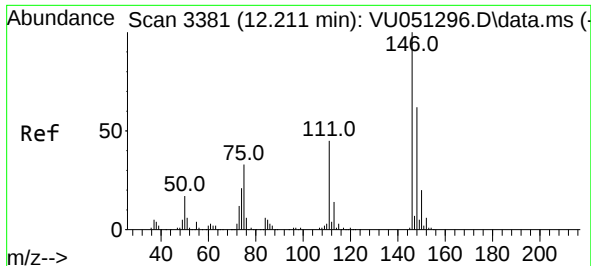
Tgt Ion:146 Resp: 3366
Ion Ratio Lower Upper
146 100
111 48.8 28.3 52.7
148 64.7 43.8 81.4



#65
1,4-Dichlorobenzene
Concen: 0.831 ug/L
RT: 11.835 min Scan# 3264
Delta R.T. -0.000 min
Lab File: VU051303.D
Acq: 09 Oct 2022 16:27

Tgt Ion:146 Resp: 26286
Ion Ratio Lower Upper
146 100
111 46.0 29.1 54.1
148 66.2 44.2 82.0





#67

1,2-Dichlorobenzene

Concen: 0.827 ug/L

RT: 12.211 min Scan# 3381

Delta R.T. -0.000 min

Lab File: VU051303.D

Acq: 09 Oct 2022 16:27

Instrument :

MSVOA_U

ClientSampleId :

BHA39

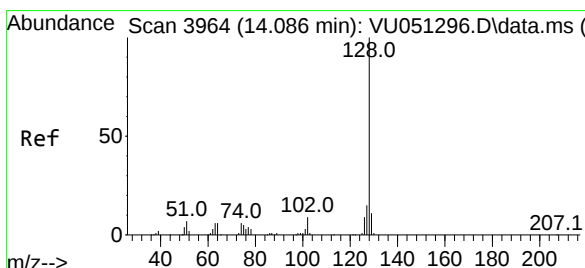
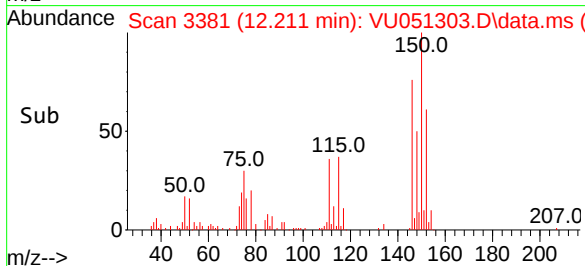
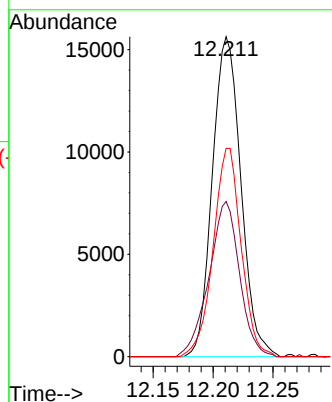
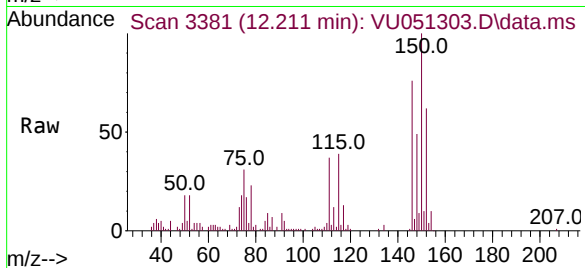
Tgt Ion:146 Resp: 25813

Ion Ratio Lower Upper

146 100

111 48.5 35.5 53.3

148 65.1 50.9 76.3



#71

Naphthalene

Concen: 1.727 ug/L

RT: 14.085 min Scan# 3964

Delta R.T. -0.000 min

Lab File: VU051303.D

Acq: 09 Oct 2022 16:27

Tgt Ion:128 Resp: 50482

Ion Ratio Lower Upper

128 100

129 12.1 8.5 12.7

127 14.8 11.1 16.7

