

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102622\
 Data File : VU051531.D
 Acq On : 27 Oct 2022 03:48
 Operator : JC/MD
 Sample : N5300-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BHA72

Quant Time: Oct 27 08:27:19 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	6.250	114	318837	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.423	117	329055	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	184982	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.594	65	102935	4.002	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.000%
7) Chloroethane-d5	1.909	69	96262	4.356	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.200%
11) 1,1-Dichloroethene-d2	2.562	65	36534	3.594	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.800%
20) 2-Butanone-d5	4.616	46	264392	46.692	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	93.380%
24) Chloroform-d	5.063	84	173509	3.619	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	72.400%
26) 1,2-Dichloroethane-d4	5.716	65	46401	1.876	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	37.600%#
32) Benzene-d6	5.751	84	383523	4.237	ug/L	0.03
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.800%
36) 1,2-Dichloropropane-d6	6.690	67	125550	4.084	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	81.600%
41) Toluene-d8	7.896	98	355670	4.392	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.800%
43) trans-1,3-Dichloroprop...	8.179	79	37406	3.703	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.000%
46) 2-Hexanone-d5	8.632	63	259453	76.218	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	152.440%#
56) 1,1,2,2-Tetrachloroeth...	10.758	84	116515	4.744	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.800%
66) 1,2-Dichlorobenzene-d4	12.192	152	138516	4.308	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	86.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.392	85	2533	0.097	ug/L	96
8) Chloroethane	1.928	64	285859	12.513	ug/L	98
13) Acetone	2.620	43	58099	13.680	ug/L	98
14) Carbon disulfide	2.790	76	18651	0.262	ug/L	98
17) Methyl tert-butyl Ether	3.362	73	20558	0.386	ug/L #	1
18) trans-1,2-Dichloroethene	3.350	96	23876	0.976	ug/L	93
19) 1,1-Dichloroethane	3.867	63	5044	0.100	ug/L	89
21) 2-Butanone	4.713	43	15772	2.356	ug/L #	72
27) 1,2-Dichloroethane	5.829	62	3896347	123.369	ug/L #	74
30) Cyclohexane	5.388	56	320017	9.570	ug/L	99
35) Methylcyclohexane	6.764	83	173178	5.009	ug/L	97
38) Bromodichloromethane	7.160	83	4005	0.112	ug/L #	50
39) cis-1,3-Dichloropropene	7.864	75	4165	0.115	ug/L	87
42) Toluene	7.967	91	1750276	15.011	ug/L	99
48) 2-Hexanone	8.632	43	904594	76.909	ug/L #	36
52) Ethylbenzene	9.571	91	16792305	160.253	ug/L	91
53) m,p-Xylene	9.574	106	5588950	137.525	ug/L	61
55) Styrene	10.115	104	1340276	20.248	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.793	83	31119	1.189	ug/L #	83

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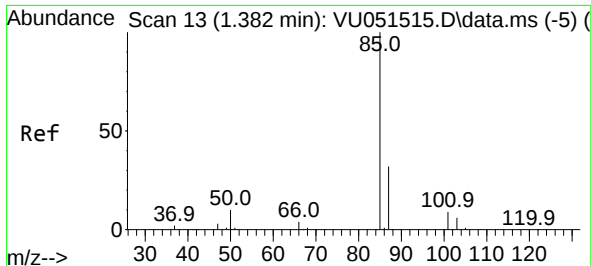
Instrument :
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Quant Time: Oct 27 08:27:19 2022
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

60) Isopropylbenzene	10.484	105	5778311	49.318	ug/L	98
61) 1,2,3-Trichloropropane	10.999	75	152834	6.543	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.092	105	9482176	305.080	ug/L	98
63) 1,2,4-Trimethylbenzene	11.092	105	9482176	107.876	ug/L	94
64) 1,3-Dichlorobenzene	11.745	146	146343	2.525	ug/L	98
65) 1,4-Dichlorobenzene	11.838	146	2007270	35.139	ug/L	98
67) 1,2-Dichlorobenzene	12.211	146	337872	5.997	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.970	75	6459	1.446	ug/L #	5
71) Naphthalene	14.082	128	954033	18.078	ug/L	98

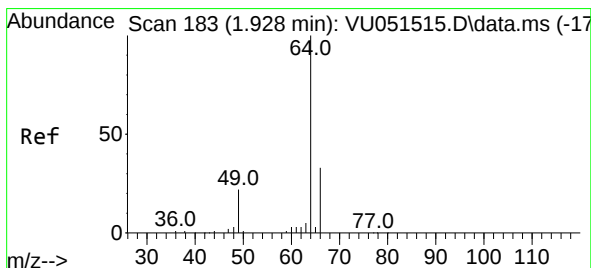
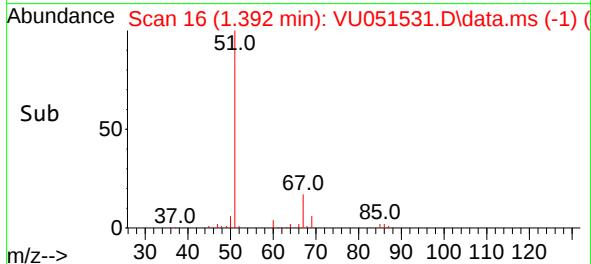
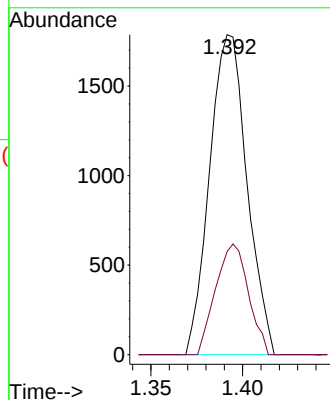
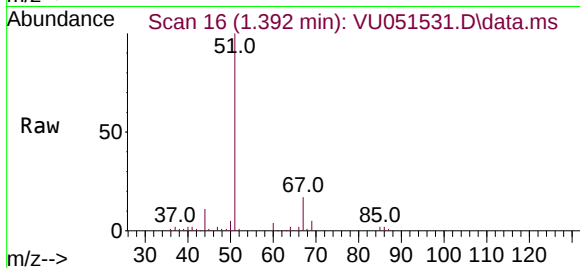
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
Dichlorodifluoromethane
Concen: 0.097 ug/L
RT: 1.392 min Scan# 1
Delta R.T. 0.010 min
Lab File: VU051531.D
Acq: 27 Oct 2022 03:48

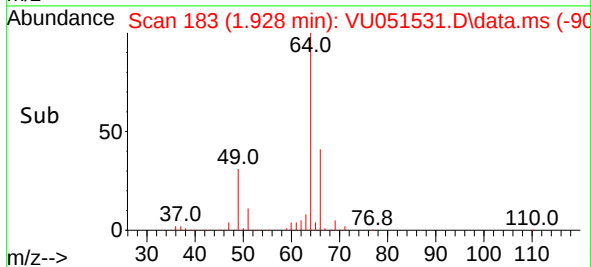
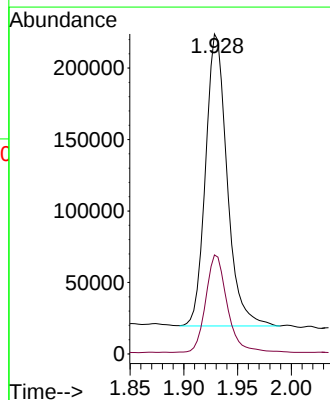
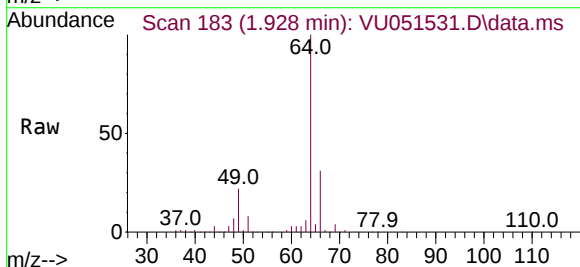
Instrument :
MSVOA_U
ClientSampleId :
BHA72

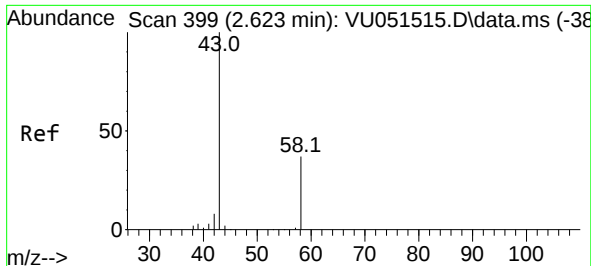
Tgt Ion: 85 Resp: 2533
Ion Ratio Lower Upper
85 100
87 30.3 26.2 39.4



#8
Chloroethane
Concen: 12.513 ug/L
RT: 1.928 min Scan# 183
Delta R.T. 0.000 min
Lab File: VU051531.D
Acq: 27 Oct 2022 03:48

Tgt Ion: 64 Resp: 285859
Ion Ratio Lower Upper
64 100
66 30.9 22.3 41.3





#13

Acetone

Concen: 13.680 ug/L

RT: 2.620 min Scan# 399

Delta R.T. -0.003 min

Lab File: VU051531.D

Acq: 27 Oct 2022 03:48

Instrument :

MSVOA_U

ClientSampleId :

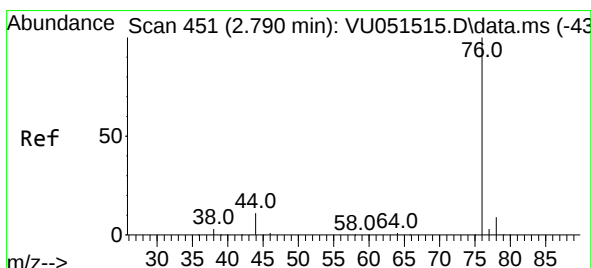
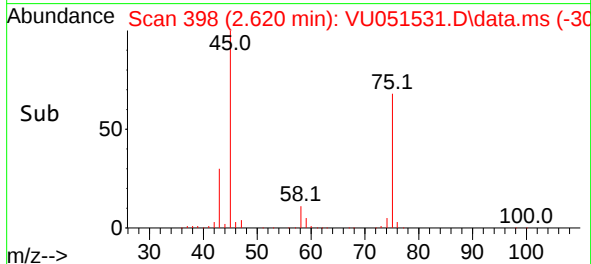
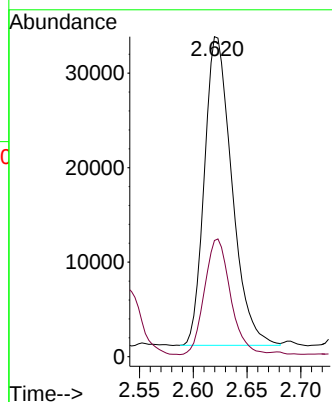
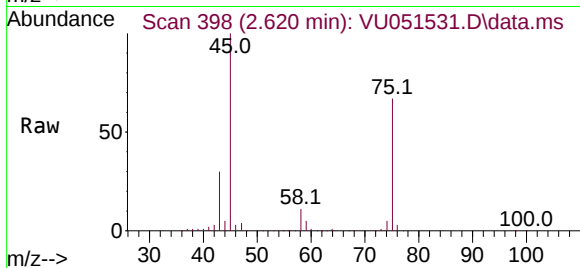
BHA72

Tgt Ion: 43 Resp: 58099

Ion Ratio Lower Upper

43 100

58 35.4 0.0 68.8



#14

Carbon disulfide

Concen: 0.262 ug/L

RT: 2.790 min Scan# 451

Delta R.T. 0.000 min

Lab File: VU051531.D

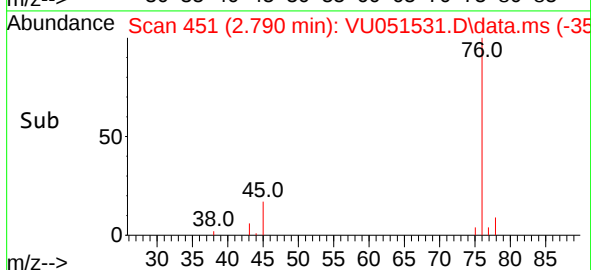
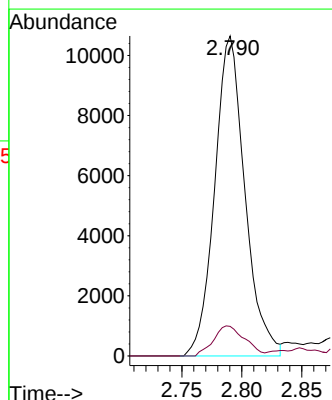
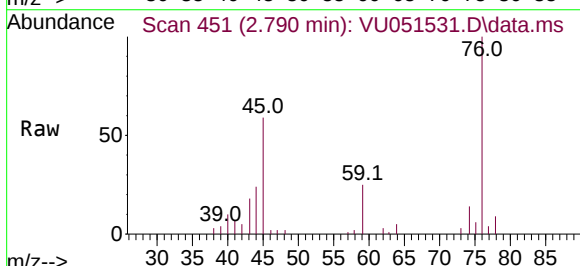
Acq: 27 Oct 2022 03:48

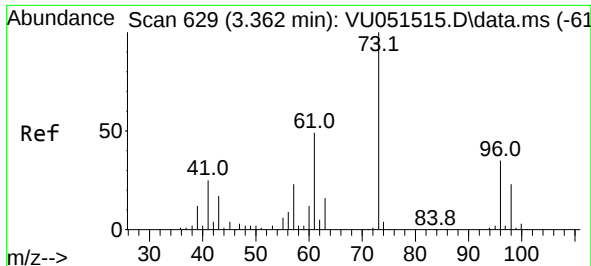
Tgt Ion: 76 Resp: 18651

Ion Ratio Lower Upper

76 100

78 9.3 7.0 10.4





#17

Methyl tert-butyl Ether

Concen: 0.386 ug/L

RT: 3.362 min Scan# 61

Delta R.T. 0.000 min

Lab File: VU051531.D

Acq: 27 Oct 2022 03:48

Instrument :

MSVOA_U

ClientSampleId :

BHA72

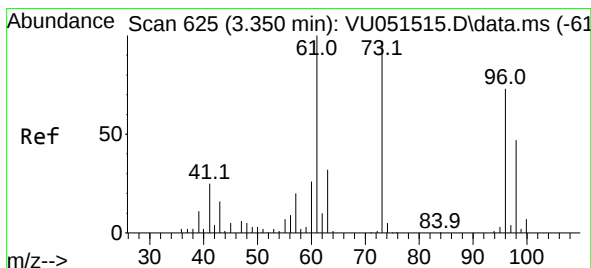
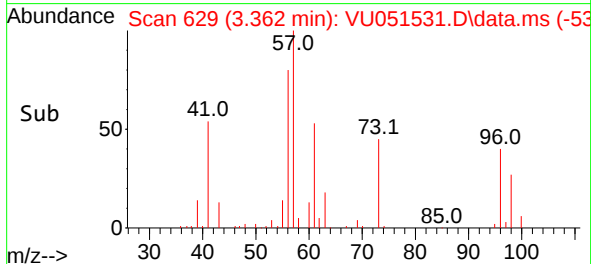
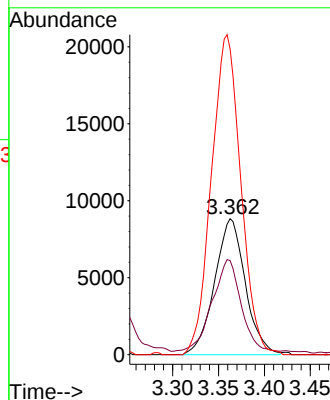
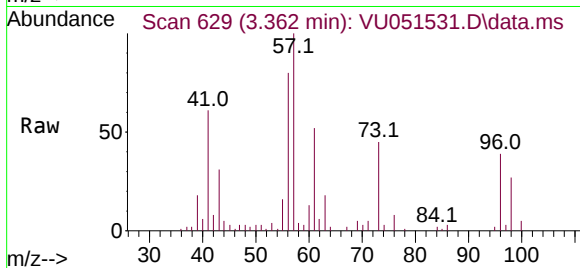
Tgt Ion: 73 Resp: 20558

Ion Ratio Lower Upper

73 100

43 62.5 15.4 23.0#

57 225.2 18.9 28.3#



#18

trans-1,2-Dichloroethene

Concen: 0.976 ug/L

RT: 3.350 min Scan# 625

Delta R.T. -0.000 min

Lab File: VU051531.D

Acq: 27 Oct 2022 03:48

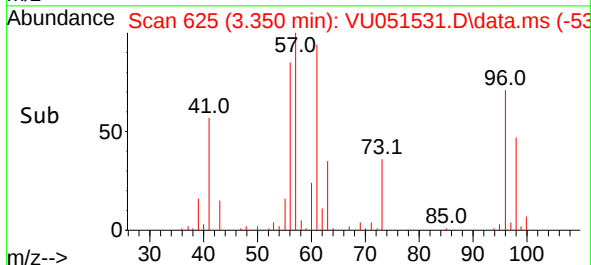
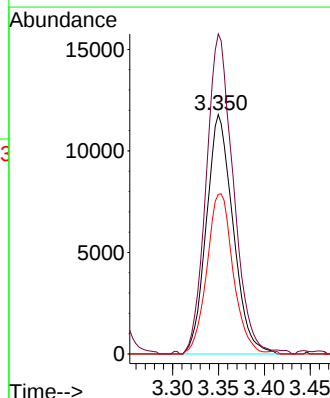
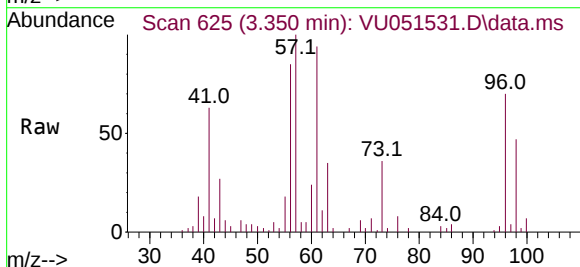
Tgt Ion: 96 Resp: 23876

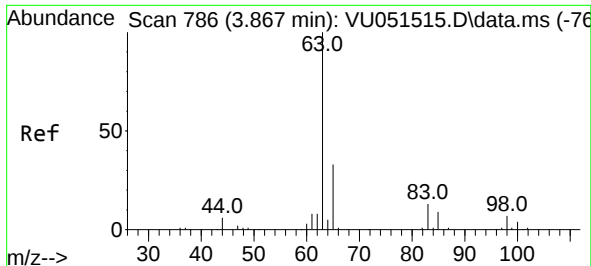
Ion Ratio Lower Upper

96 100

61 133.7 101.4 188.2

98 66.7 44.9 83.5





#19

1,1-Dichloroethane

Concen: 0.100 ug/L

RT: 3.867 min Scan# 71

Delta R.T. -0.000 min

Lab File: VU051531.D

Acq: 27 Oct 2022 03:48

Instrument :

MSVOA_U

ClientSampleId :

BHA72

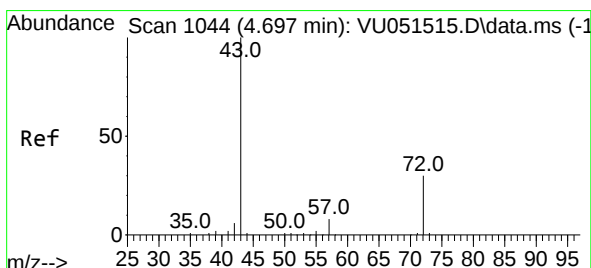
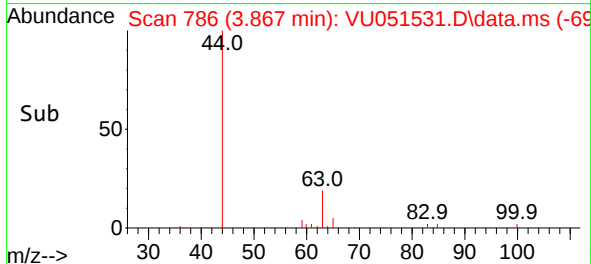
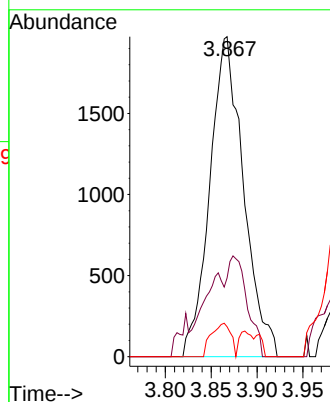
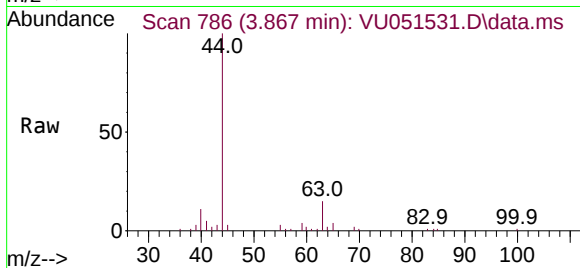
Tgt Ion: 63 Resp: 5044

Ion Ratio Lower Upper

63 100

65 24.6 22.0 41.0

83 9.4 9.0 16.6



#21

2-Butanone

Concen: 2.356 ug/L

RT: 4.713 min Scan# 1049

Delta R.T. 0.016 min

Lab File: VU051531.D

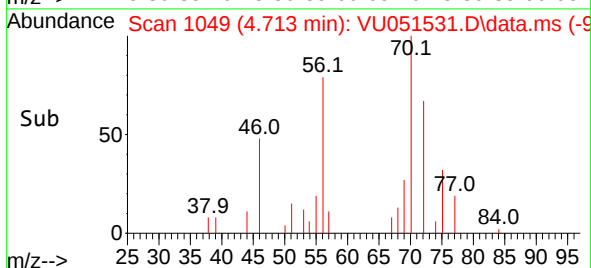
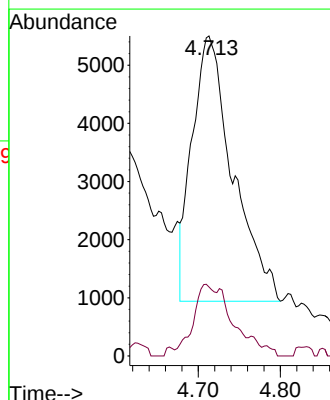
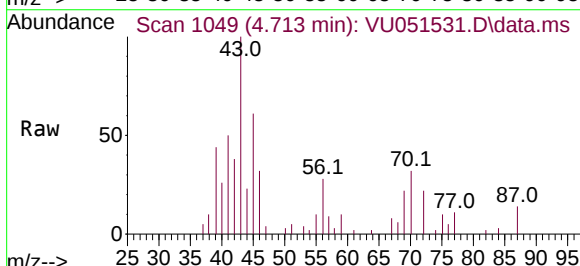
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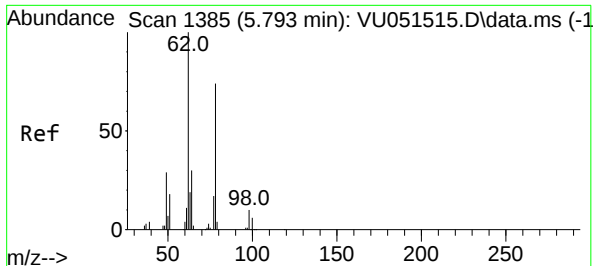
Tgt Ion: 43 Resp: 15772

Ion Ratio Lower Upper

43 100

72 12.7 13.8 41.4#

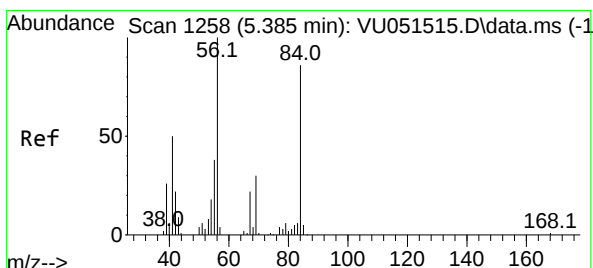
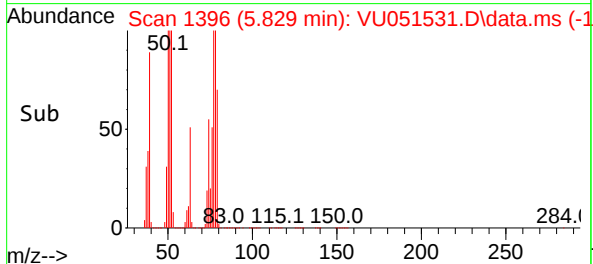
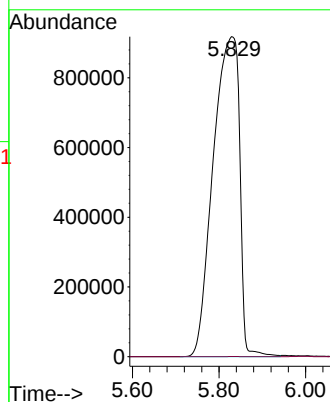
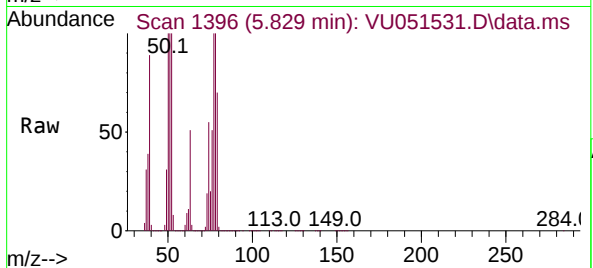




#27
1,2-Dichloroethane
Concen: 123.369 ug/L
RT: 5.829 min Scan# 11
Delta R.T. 0.035 min
Lab File: VU051531.D
Acq: 27 Oct 2022 03:48

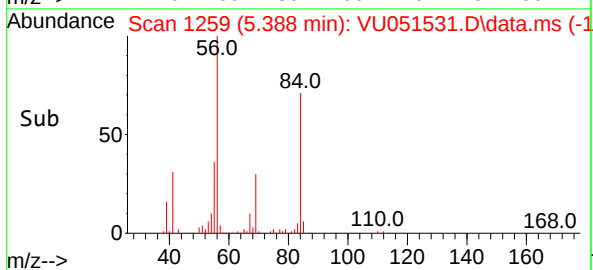
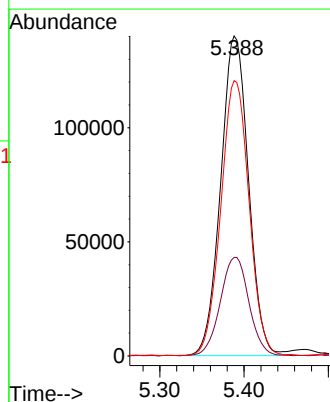
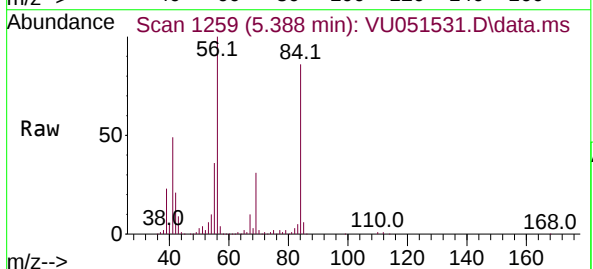
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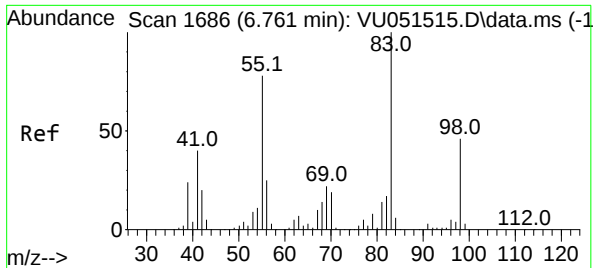
Tgt Ion: 62 Resp: 3896347
Ion Ratio Lower Upper
62 100
98 0.0 7.7 11.5#



#30
Cyclohexane
Concen: 9.570 ug/L
RT: 5.388 min Scan# 1259
Delta R.T. 0.003 min
Lab File: VU051531.D
Acq: 27 Oct 2022 03:48

Tgt Ion: 56 Resp: 320017
Ion Ratio Lower Upper
56 100
69 31.7 25.1 37.7
84 87.5 70.9 106.3





#35

Methylcyclohexane

Concen: 5.009 ug/L

RT: 6.764 min Scan# 1

Delta R.T. 0.003 min

Lab File: VU051531.D

Acq: 27 Oct 2022 03:48

Instrument :

MSVOA_U

ClientSampleId :

BHA72

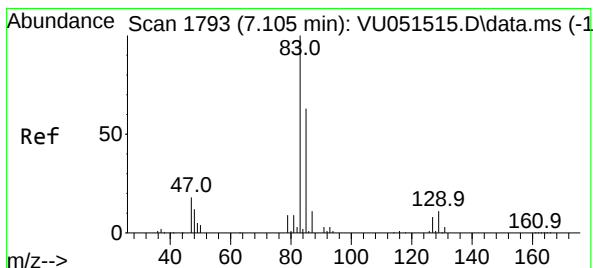
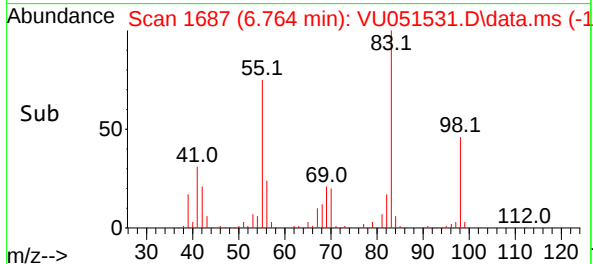
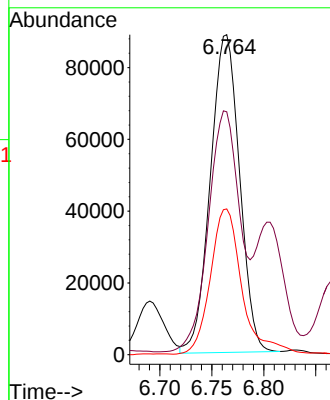
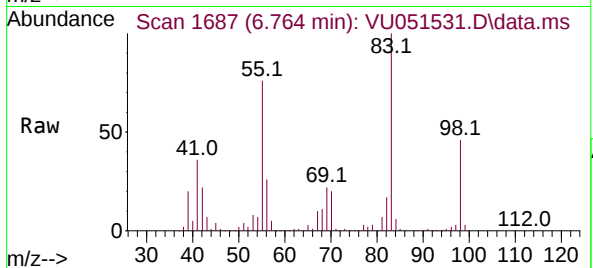
Tgt Ion: 83 Resp: 173178

Ion Ratio Lower Upper

83 100

55 81.9 65.8 98.6

98 49.5 35.9 53.9



#38

Bromodichloromethane

Concen: 0.112 ug/L

RT: 7.160 min Scan# 1810

Delta R.T. 0.055 min

Lab File: VU051531.D

Acq: 27 Oct 2022 03:48

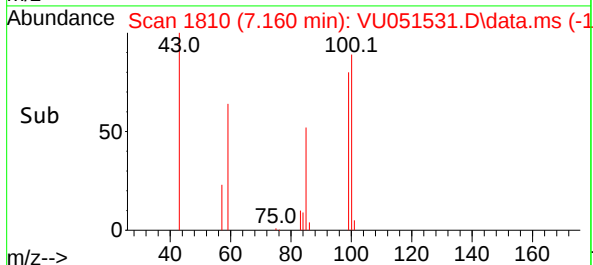
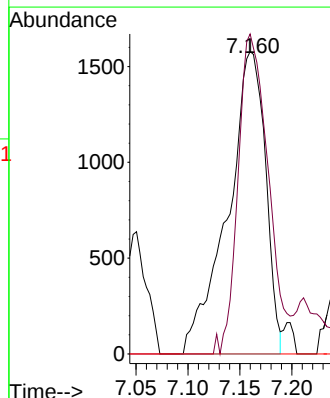
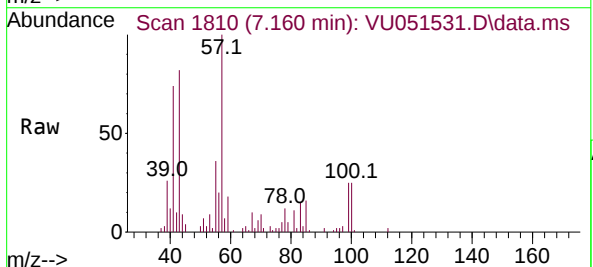
Tgt Ion: 83 Resp: 4005

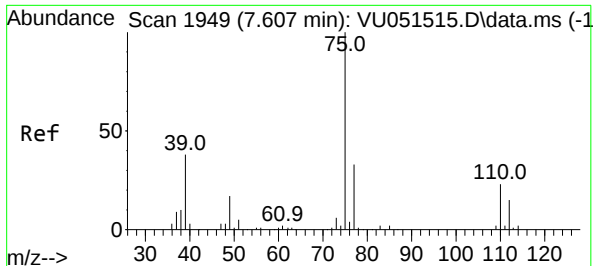
Ion Ratio Lower Upper

83 100

85 105.8 44.8 83.2#

127 0.0 7.0 10.6#





#39

cis-1,3-Dichloropropene

Concen: 0.115 ug/L

RT: 7.864 min Scan# 2029

Delta R.T. 0.257 min

Lab File: VU051531.D

Acq: 27 Oct 2022 03:48

Instrument :

MSVOA_U

ClientSampleId :

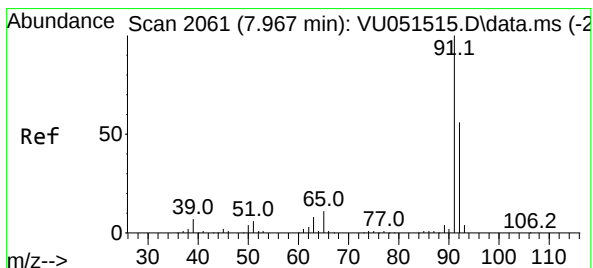
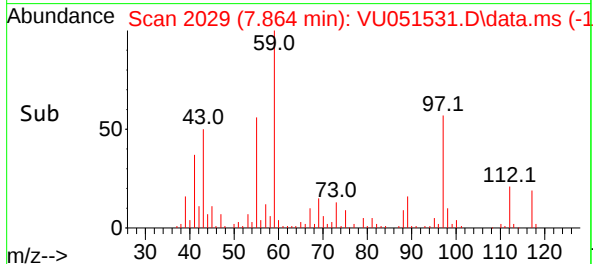
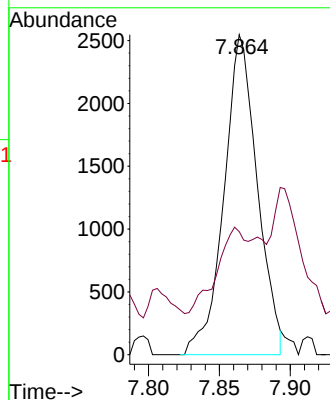
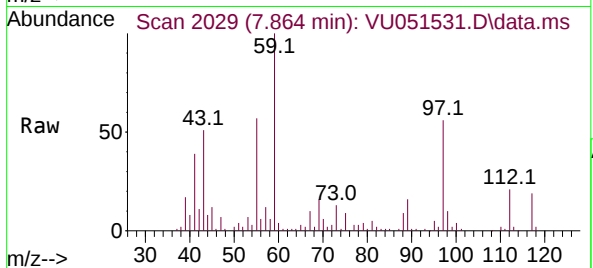
BHA72

Tgt Ion: 75 Resp: 4165

Ion Ratio Lower Upper

75 100

77 38.5 22.0 41.0



#42

Toluene

Concen: 15.011 ug/L

RT: 7.967 min Scan# 2061

Delta R.T. 0.000 min

Lab File: VU051531.D

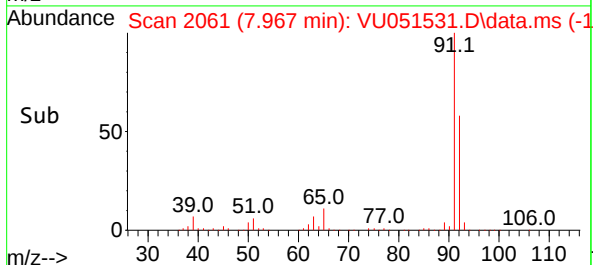
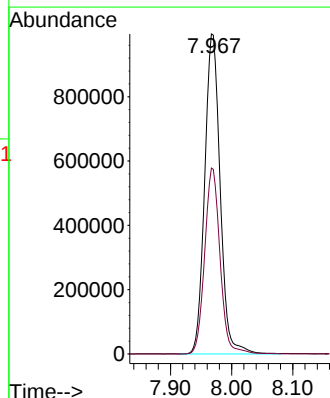
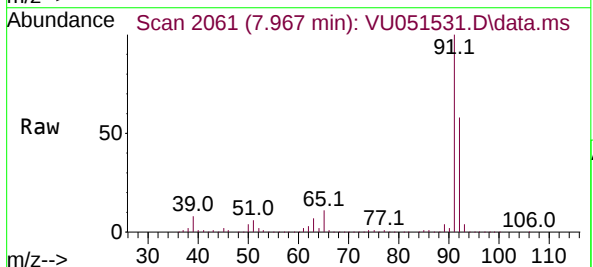
Acq: 27 Oct 2022 03:48

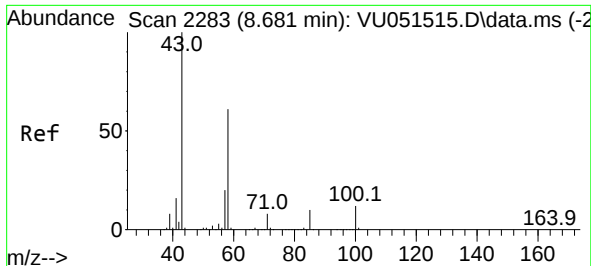
Tgt Ion: 91 Resp: 1750276

Ion Ratio Lower Upper

91 100

92 58.1 39.9 74.1

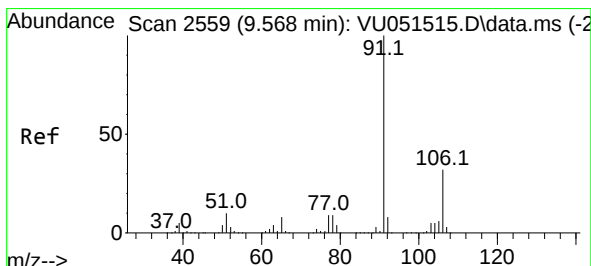
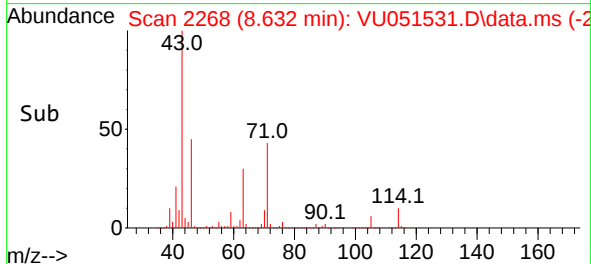
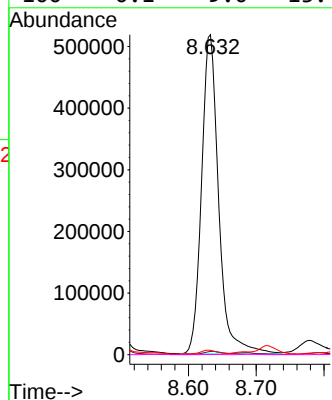
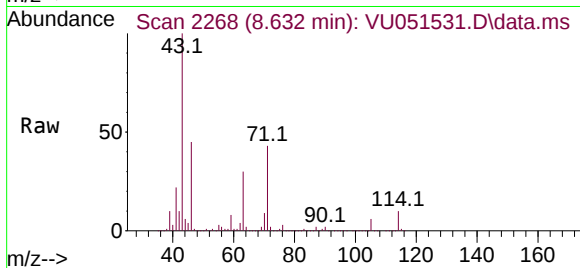




#48
2-Hexanone
Concen: 76.909 ug/L
RT: 8.632 min Scan# 21
Delta R.T. -0.048 min
Lab File: VU051531.D
Acq: 27 Oct 2022 03:48

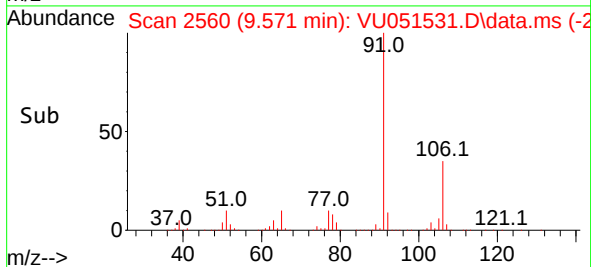
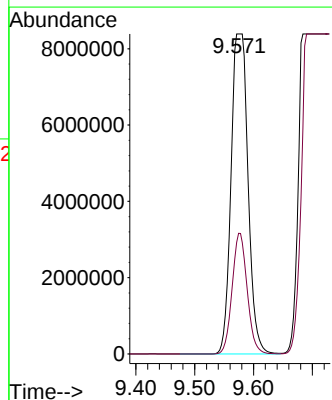
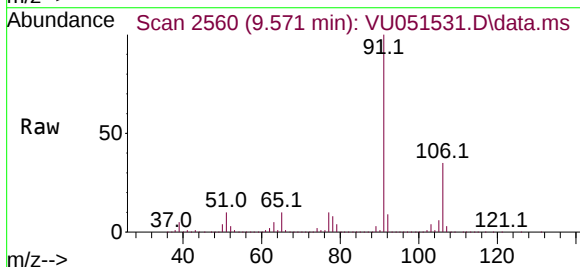
Instrument :
MSVOA_U
ClientSampleId :
BHA72

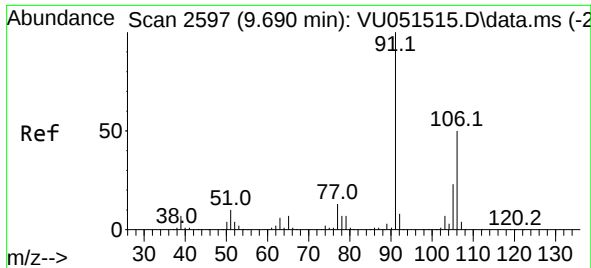
Tgt Ion: 43 Resp: 904594
Ion Ratio Lower Upper
43 100
58 1.1 48.2 72.2#
57 1.0 15.5 23.3#
100 0.1 9.0 13.4#



#52
Ethylbenzene
Concen: 160.253 ug/L
RT: 9.571 min Scan# 2560
Delta R.T. 0.003 min
Lab File: VU051531.D
Acq: 27 Oct 2022 03:48

Tgt Ion: 91 Resp: 16792305
Ion Ratio Lower Upper
91 100
106 34.9 20.9 38.7

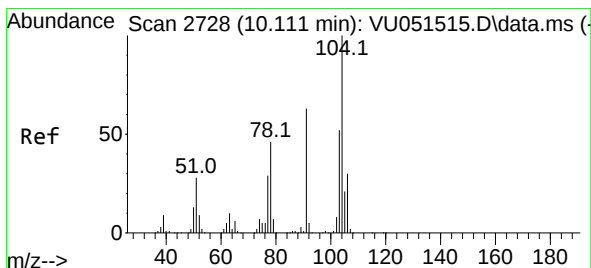
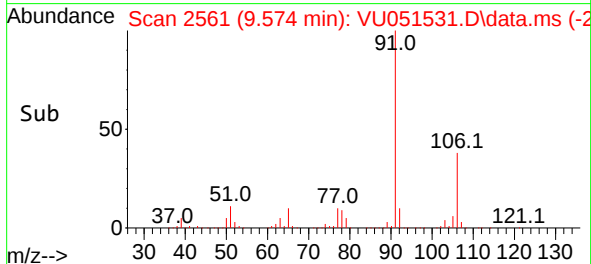
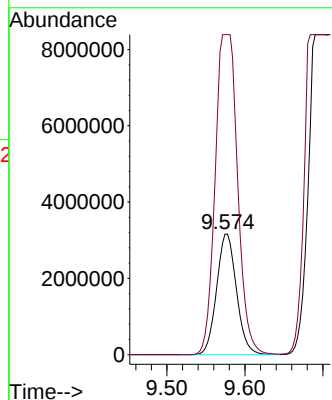
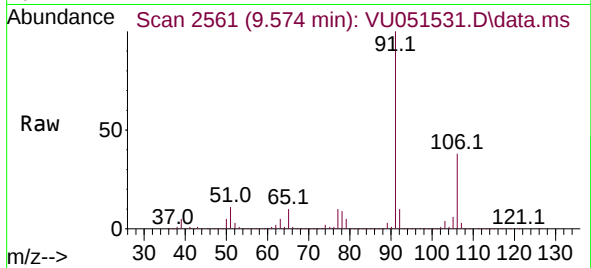




#53
m,p-Xylene
Concen: 137.525 ug/L
RT: 9.574 min Scan# 21
Delta R.T. -0.116 min
Lab File: VU051531.D
Acq: 27 Oct 2022 03:48

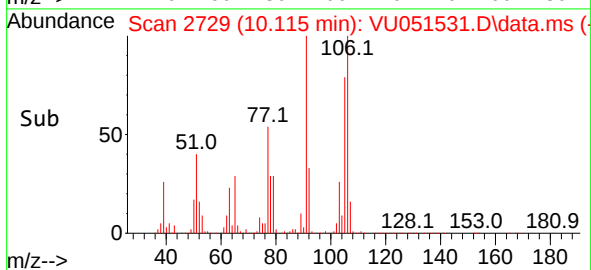
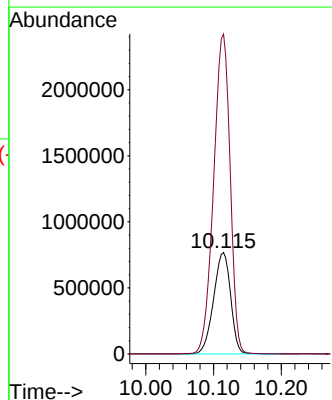
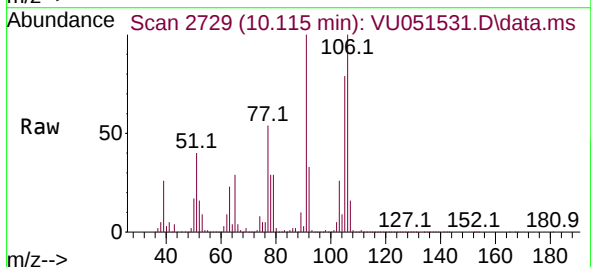
Instrument :
MSVOA_U
ClientSampleId :
BHA72

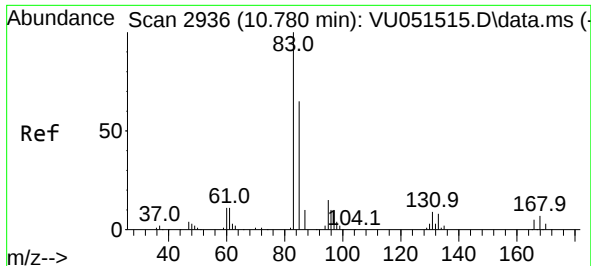
Tgt Ion:106 Resp: 5588950
Ion Ratio Lower Upper
106 100
91 265.1 143.9 267.3



#55
Styrene
Concen: 20.248 ug/L
RT: 10.115 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VU051531.D
Acq: 27 Oct 2022 03:48

Tgt Ion:104 Resp: 1340276
Ion Ratio Lower Upper
104 100
78 315.3 32.1 59.7#





#57

1,1,2,2-Tetrachloroethane

Concen: 1.189 ug/L

RT: 10.793 min Scan# 2936

Delta R.T. 0.013 min

Lab File: VU051531.D

Acq: 27 Oct 2022 03:48

Instrument :

MSVOA_U

ClientSampleId :

BHA72

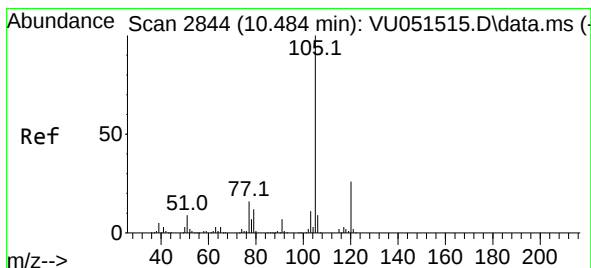
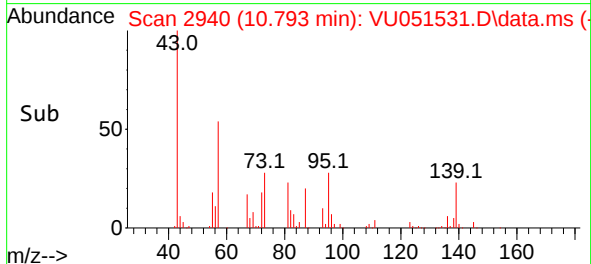
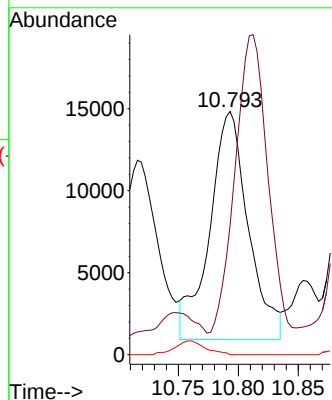
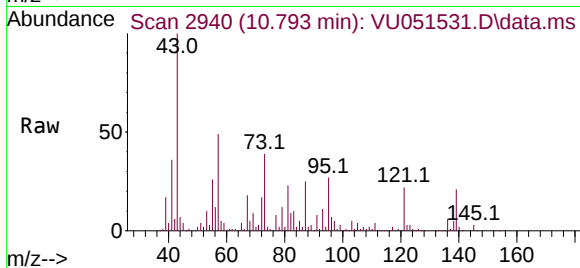
Tgt Ion: 83 Resp: 31119

Ion Ratio Lower Upper

83 100

85 53.2 45.9 85.3

131 0.0 7.4 11.2#



#60

Isopropylbenzene

Concen: 49.318 ug/L

RT: 10.484 min Scan# 2844

Delta R.T. 0.000 min

Lab File: VU051531.D

Acq: 27 Oct 2022 03:48

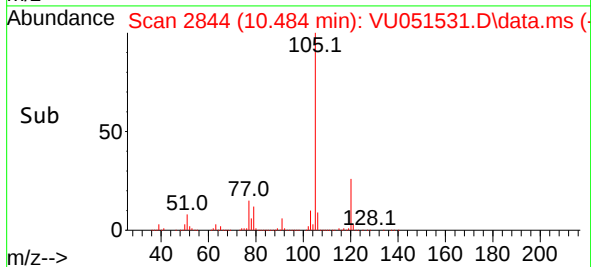
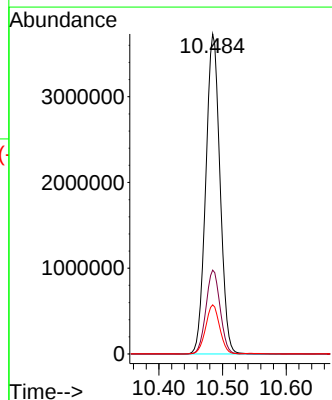
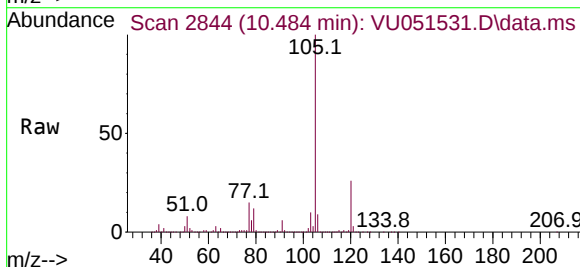
Tgt Ion:105 Resp: 5778311

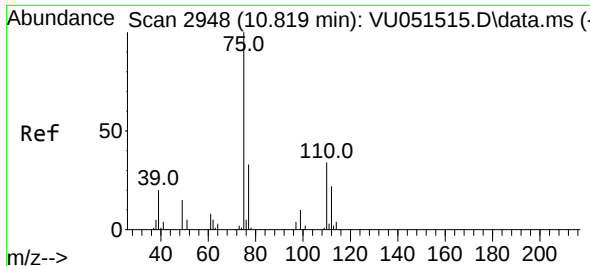
Ion Ratio Lower Upper

105 100

120 26.2 20.6 30.8

77 15.2 13.5 20.3

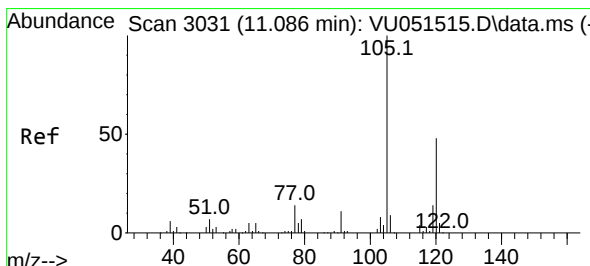
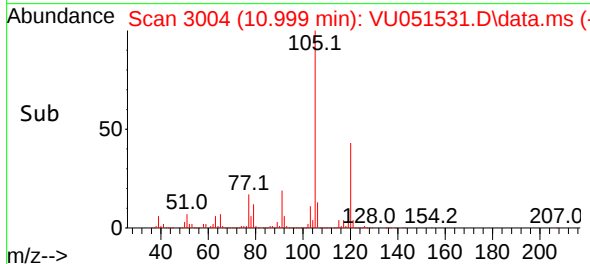
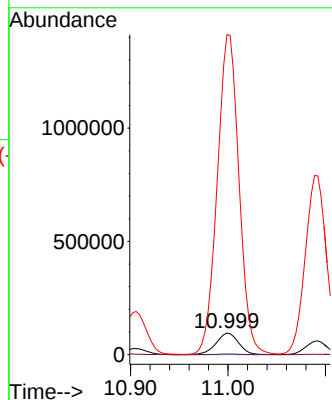
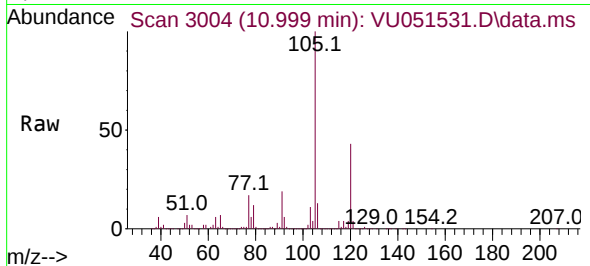




#61
1,2,3-Trichloropropane
Concen: 6.543 ug/L
RT: 10.999 min Scan# 3004
Delta R.T. 0.180 min
Lab File: VU051531.D
Acq: 27 Oct 2022 03:48

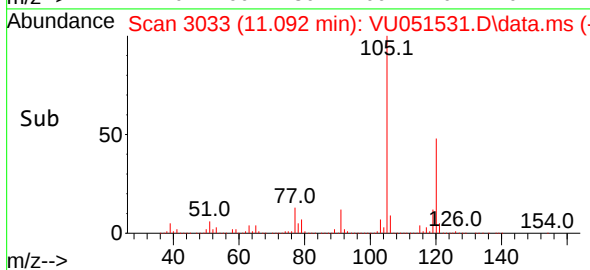
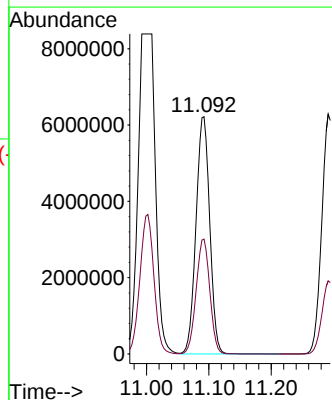
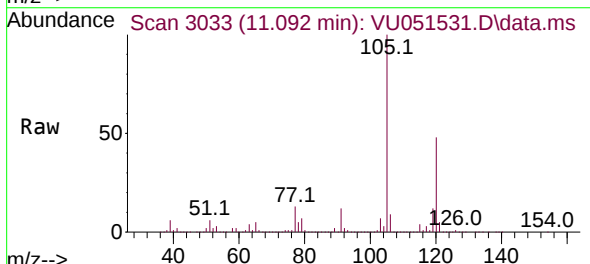
Instrument :
MSVOA_U
ClientSampleId :
BHA72

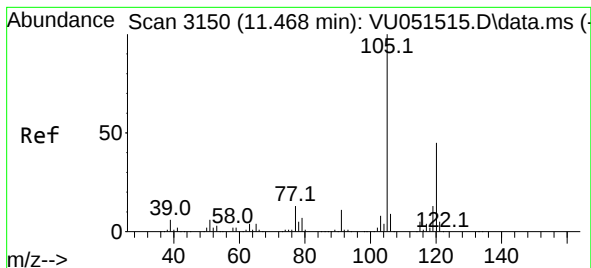
Tgt Ion: 75 Resp: 152834
Ion Ratio Lower Upper
75 100
110 3.0 27.0 40.6#
77 1433.5 26.4 39.6#



#62
1,3,5-Trimethylbenzene
Concen: 305.080 ug/L
RT: 11.092 min Scan# 3033
Delta R.T. 0.006 min
Lab File: VU051531.D
Acq: 27 Oct 2022 03:48

Tgt Ion:105 Resp: 9482176
Ion Ratio Lower Upper
105 100
120 48.2 37.7 56.5





#63

1,2,4-Trimethylbenzene

Concen: 107.876 ug/L

RT: 11.092 min Scan# 3033

Delta R.T. -0.376 min

Lab File: VU051531.D

Acq: 27 Oct 2022 03:48

Instrument :

MSVOA_U

ClientSampleId :

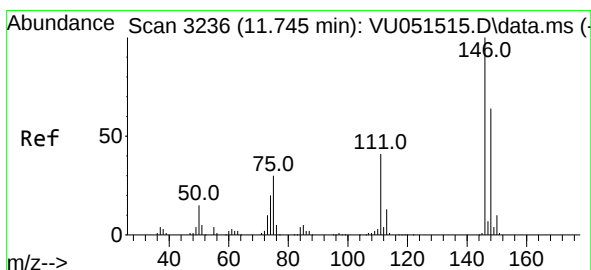
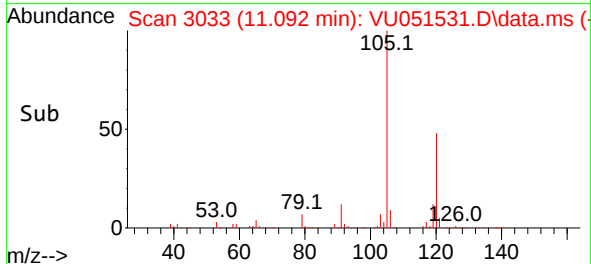
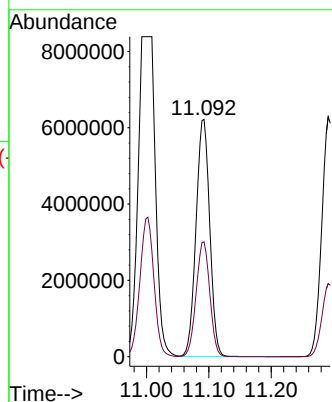
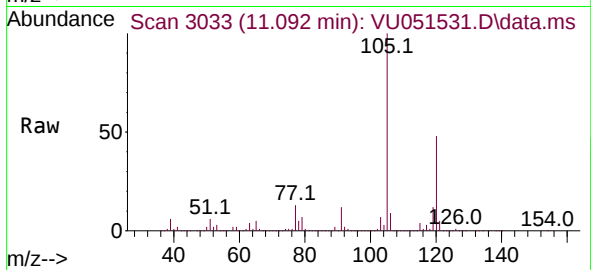
BHA72

Tgt Ion:105 Resp: 9482176

Ion Ratio Lower Upper

105 100

120 48.2 35.6 53.4



#64

1,3-Dichlorobenzene

Concen: 2.525 ug/L

RT: 11.745 min Scan# 3236

Delta R.T. 0.000 min

Lab File: VU051531.D

Acq: 27 Oct 2022 03:48

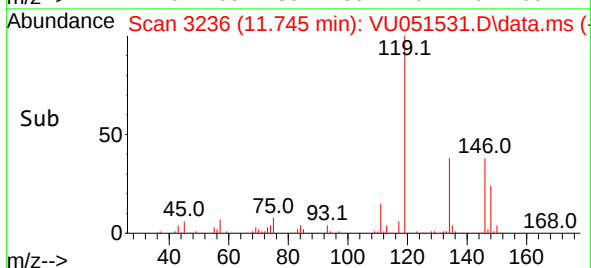
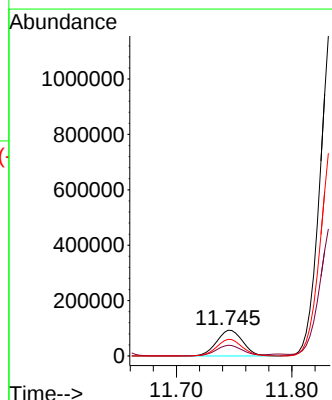
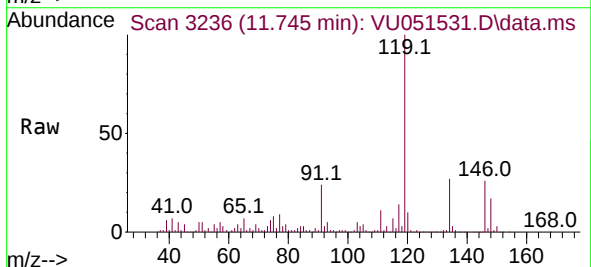
Tgt Ion:146 Resp: 146343

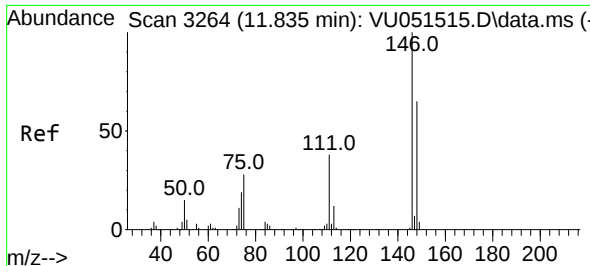
Ion Ratio Lower Upper

146 100

111 41.5 28.3 52.7

148 64.5 43.8 81.4

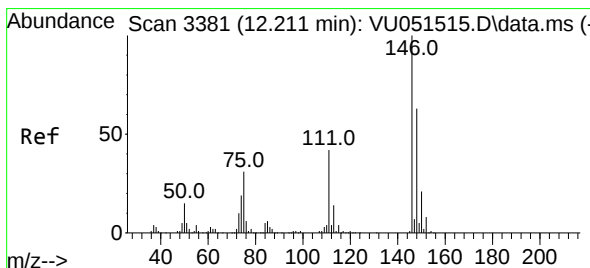
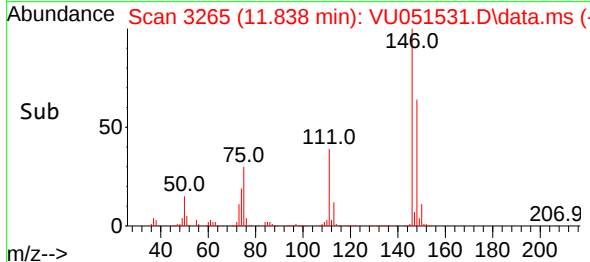
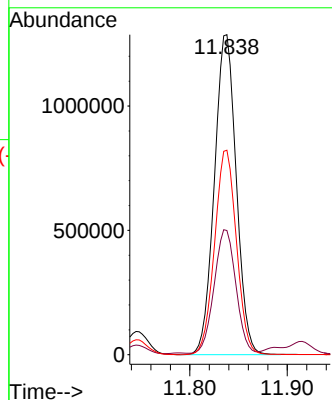
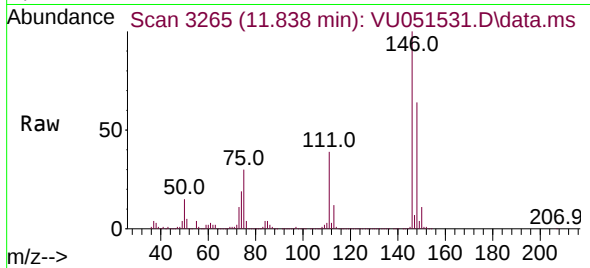




#65
1,4-Dichlorobenzene
Concen: 35.139 ug/L
RT: 11.838 min Scan# 3265
Delta R.T. 0.003 min
Lab File: VU051531.D
Acq: 27 Oct 2022 03:48

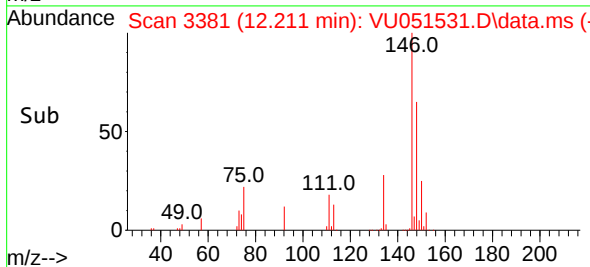
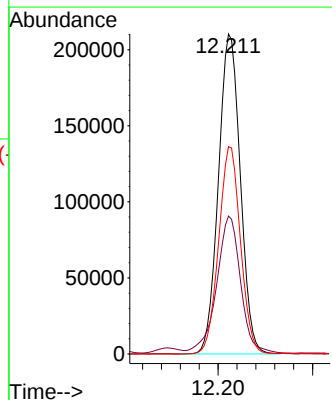
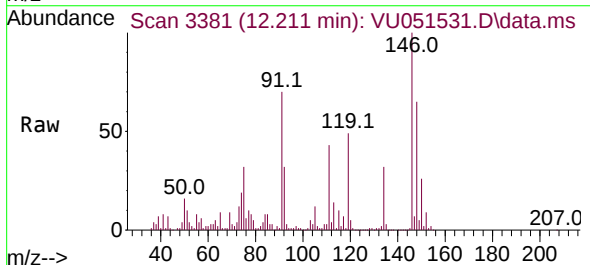
Instrument :
MSVOA_U
ClientSampleId :
BHA72

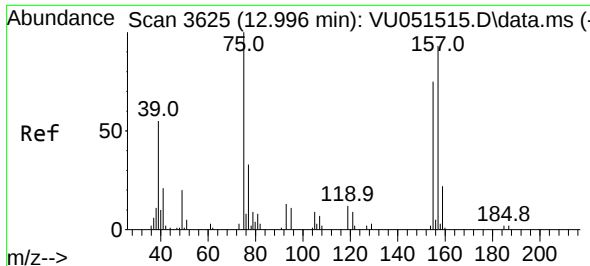
Tgt Ion:146 Resp: 2007270
Ion Ratio Lower Upper
146 100
111 38.8 29.1 54.1
148 63.9 44.2 82.0



#67
1,2-Dichlorobenzene
Concen: 5.997 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. -0.000 min
Lab File: VU051531.D
Acq: 27 Oct 2022 03:48

Tgt Ion:146 Resp: 337872
Ion Ratio Lower Upper
146 100
111 43.1 35.5 53.3
148 64.8 50.9 76.3

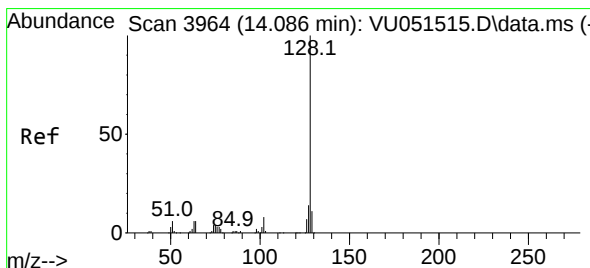
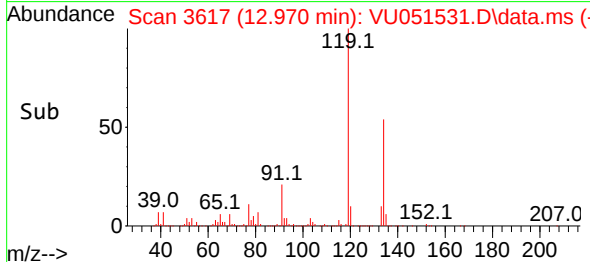
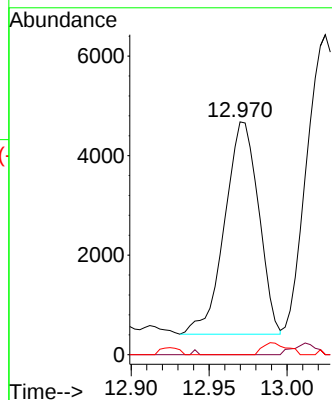
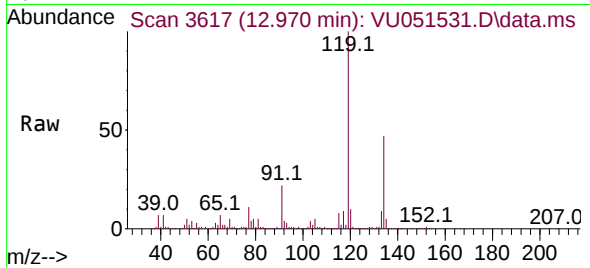




#68
1,2-Dibromo-3-chloropropane
Concen: 1.446 ug/L
RT: 12.970 min Scan# 30
Delta R.T. -0.026 min
Lab File: VU051531.D
Acq: 27 Oct 2022 03:48

Instrument :
MSVOA_U
ClientSampleId :
BHA72

Tgt Ion: 75 Resp: 6459
Ion Ratio Lower Upper
75 100
155 0.0 62.7 94.1#
157 0.0 78.3 117.5#



#71
Naphthalene
Concen: 18.078 ug/L
RT: 14.082 min Scan# 3963
Delta R.T. -0.003 min
Lab File: VU051531.D
Acq: 27 Oct 2022 03:48

Tgt Ion:128 Resp: 954033
Ion Ratio Lower Upper
128 100
129 11.4 8.5 12.7
127 13.0 11.1 16.7

