

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU103122\
 Data File : VU051647.D
 Acq On : 01 Nov 2022 06:38
 Operator : JC/MD
 Sample : N5319-07
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BHAA0

Quant Time: Nov 01 07:31:02 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR102822WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Nov 01 02:34:58 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	247567	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.417	117	243551	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	129725	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.594	65	69028	3.702	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	74.000%
7) Chloroethane-d5	1.912	69	83539	4.296	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.000%
11) 1,1-Dichloroethene-d2	2.562	65	26936	3.981	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.600%
20) 2-Butanone-d5	4.639	46	356888	52.852	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.700%
24) Chloroform-d	5.060	84	184221	4.222	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.400%
26) 1,2-Dichloroethane-d4	5.703	65	102437	4.346	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.000%
32) Benzene-d6	5.729	84	361108	4.698	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.000%
36) 1,2-Dichloropropane-d6	6.690	67	126792	4.718	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.400%
41) Toluene-d8	7.896	98	282886	4.680	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.600%
43) trans-1,3-Dichloroprop...	8.179	79	30562	3.719	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.400%
46) 2-Hexanone-d5	8.632	63	279977	56.598	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	113.200%
56) 1,1,2,2-Tetrachloroeth...	10.755	84	124985	5.075	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.400%
66) 1,2-Dichlorobenzene-d4	12.192	152	111582	4.686	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.601	62	9684	0.296	ug/L #	1
8) Chloroethane	1.932	64	137811	6.942	ug/L	94
10) 1,1,2-Trichloro-1,2,2-...	2.565	101	1119	0.053	ug/L #	25
13) Acetone	2.649	43	18764	5.477	ug/L	93
14) Carbon disulfide	2.790	76	21564	0.311	ug/L	99
15) Methyl Acetate	3.080	43	124563	13.887	ug/L #	50
18) trans-1,2-Dichloroethene	3.353	96	8352	0.362	ug/L	91
19) 1,1-Dichloroethane	3.867	63	5233	0.123	ug/L	97
21) 2-Butanone	4.716	43	8478	1.580	ug/L #	68
22) cis-1,2-Dichloroethene	4.665	96	26762	1.047	ug/L	98
27) 1,2-Dichloroethane	5.777	62	353109	12.982	ug/L #	75
30) Cyclohexane	5.385	56	250053	8.212	ug/L	99
35) Methylcyclohexane	6.761	83	247737	7.725	ug/L	97
37) 1,2-Dichloropropane	6.758	63	2790	0.113	ug/L #	1
38) Bromodichloromethane	7.157	83	7319	0.242	ug/L #	37
42) Toluene	7.967	91	1249249	12.656	ug/L	100
45) 1,1,2-Trichloroethane	8.369	97	12171	0.672	ug/L #	18
52) Ethylbenzene	9.568	91	3783732	39.728	ug/L	99
53) m,p-Xylene	9.690	106	7903536	213.650	ug/L	80

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

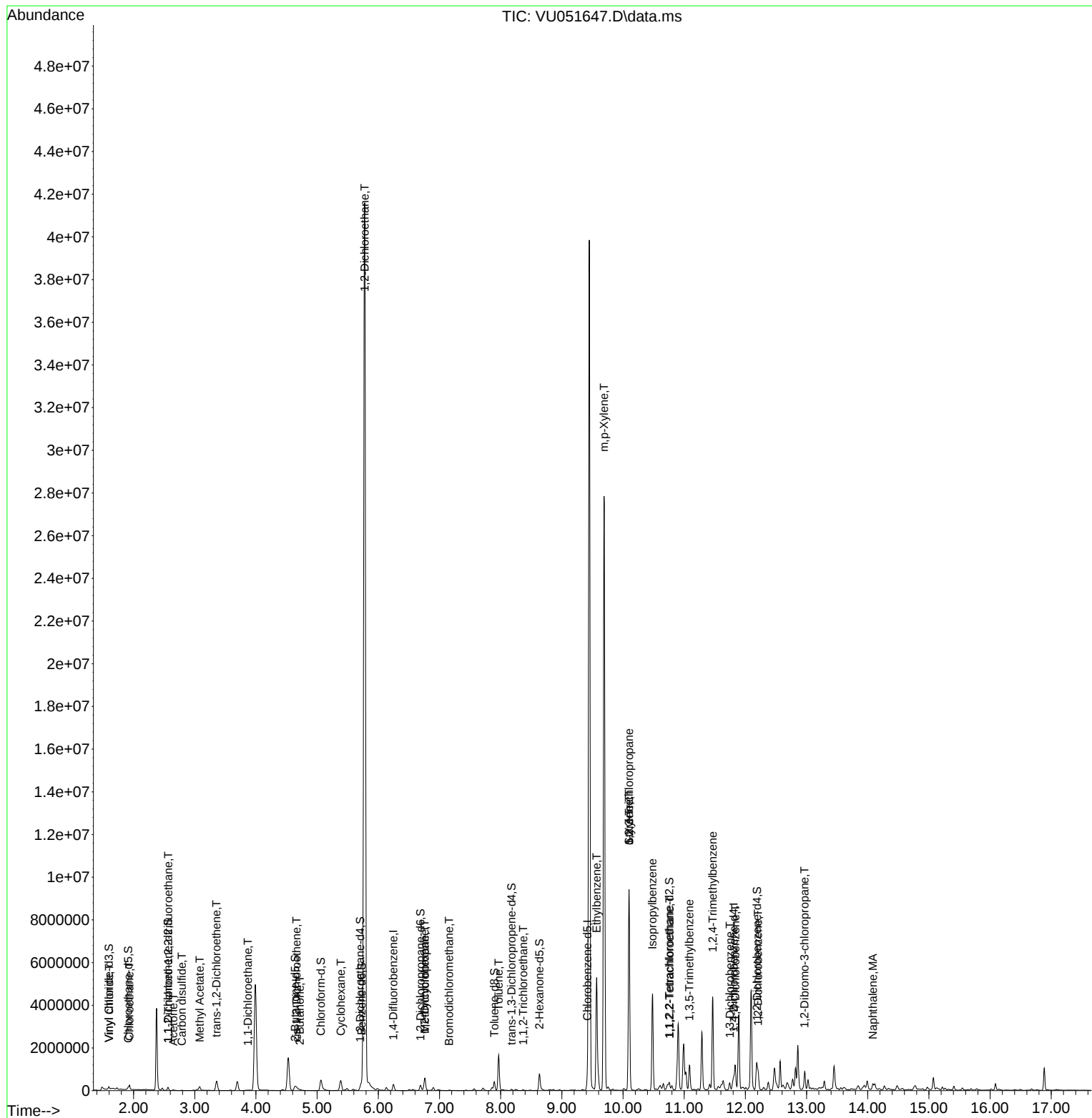
54) o-Xylene	10.099	106	2552054	70.590	ug/L	99
55) Styrene	10.099	104	135246	2.238	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.761	83	8655	0.385	ug/L #	43
60) Isopropylbenzene	10.481	105	2952305	31.175	ug/L	100
61) 1,2,3-Trichloropropane	10.099	75	59262	3.533	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.086	105	579637	22.735	ug/L	100
63) 1,2,4-Trimethylbenzene	11.465	105	2418726	32.902	ug/L	99
64) 1,3-Dichlorobenzene	11.745	146	104927	2.226	ug/L	99
65) 1,4-Dichlorobenzene	11.835	146	466212	9.862	ug/L	98
67) 1,2-Dichlorobenzene	12.208	146	214643	4.674	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.967	75	4013	1.162	ug/L #	3
71) Naphthalene	14.082	128	210322	4.367	ug/L	98

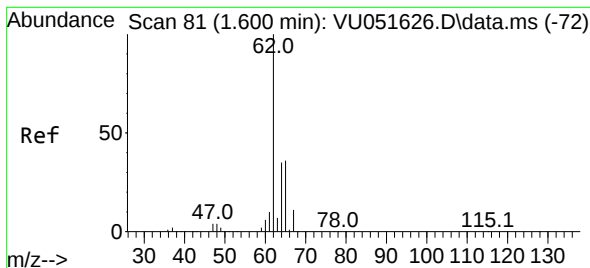
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.296 ug/L

RT: 1.601 min Scan# 81

Delta R.T. 0.000 min

Lab File: VU051647.D

Acq: 01 Nov 2022 06:38

Instrument :

MSVOA_U

ClientSampleId :

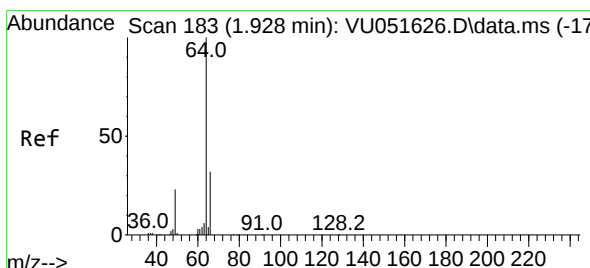
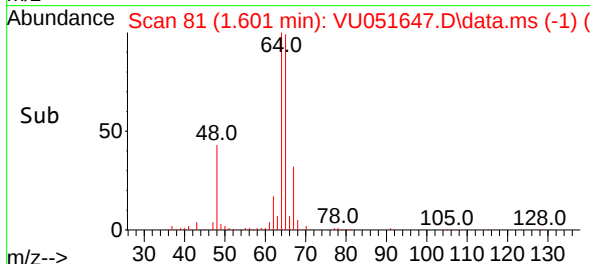
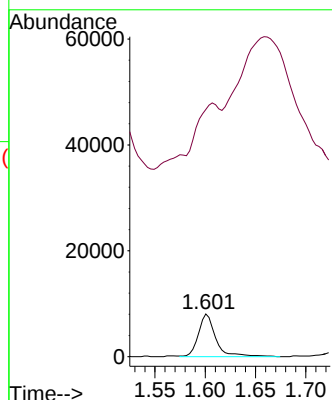
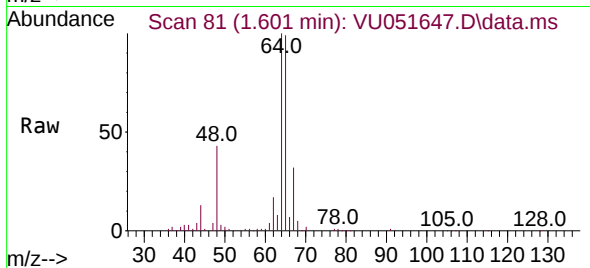
BHAA0

Tgt Ion: 62 Resp: 9684

Ion Ratio Lower Upper

62 100

64 579.3 22.1 41.1#



#8

Chloroethane

Concen: 6.942 ug/L

RT: 1.932 min Scan# 184

Delta R.T. 0.003 min

Lab File: VU051647.D

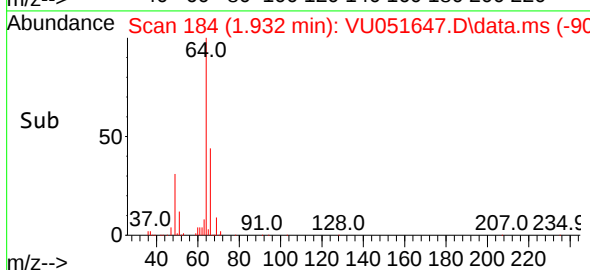
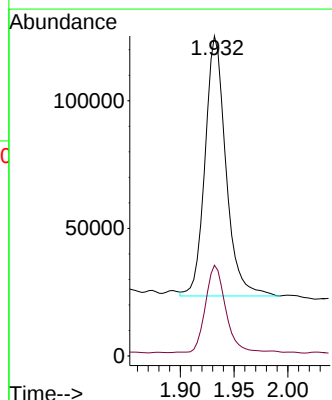
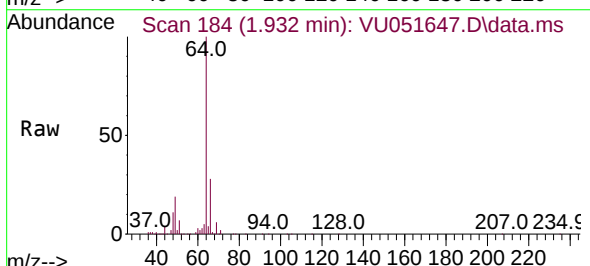
Acq: 01 Nov 2022 06:38

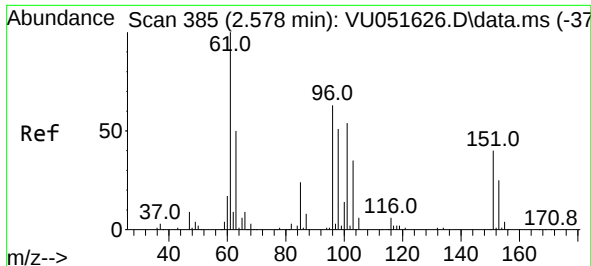
Tgt Ion: 64 Resp: 137811

Ion Ratio Lower Upper

64 100

66 28.4 22.3 41.5





#10

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

Concen: 0.053 ug/L

RT: 2.565 min Scan# 31

Delta R.T. -0.013 min

Lab File: VU051647.D

Acq: 01 Nov 2022 06:38

Instrument :

MSVOA_U

ClientSampleId :

BHAA0

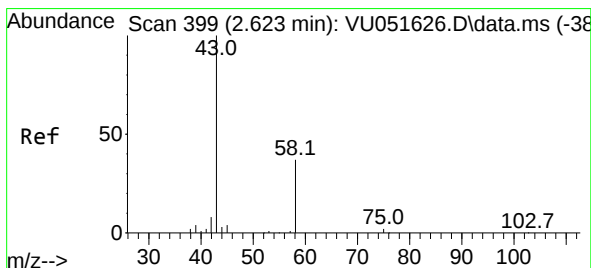
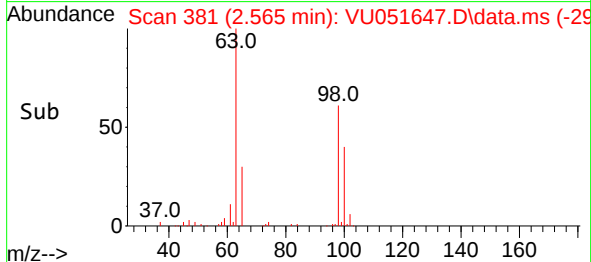
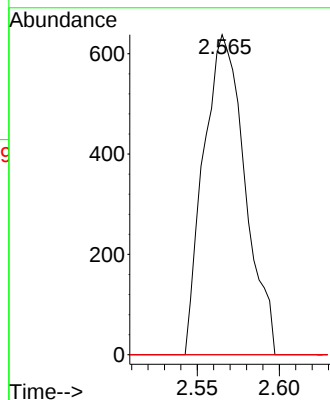
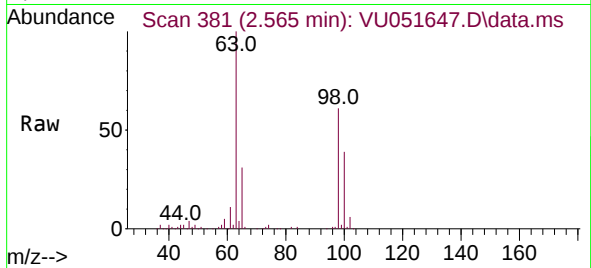
Tgt Ion:101 Resp: 1119

Ion Ratio Lower Upper

101 100

85 10.0 35.6 53.4#

151 0.0 59.6 89.4#



#13

Acetone

Concen: 5.477 ug/L

RT: 2.649 min Scan# 407

Delta R.T. 0.026 min

Lab File: VU051647.D

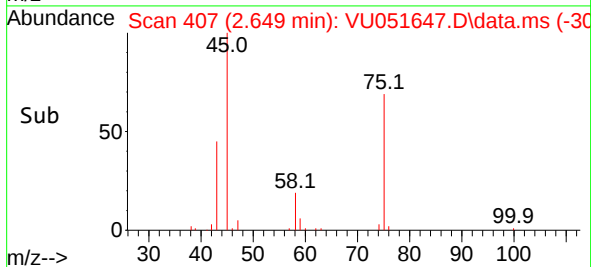
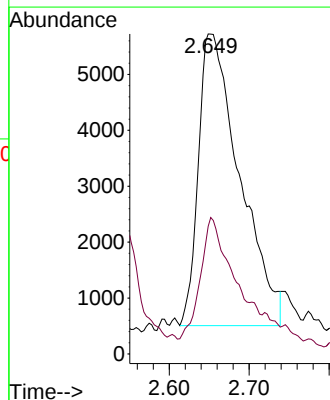
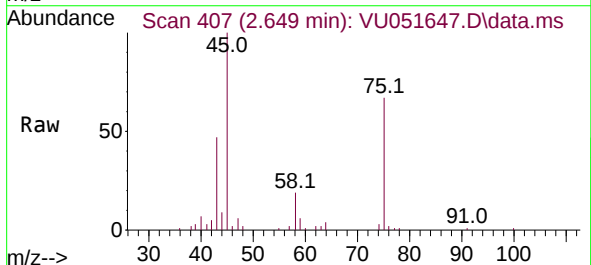
Acq: 01 Nov 2022 06:38

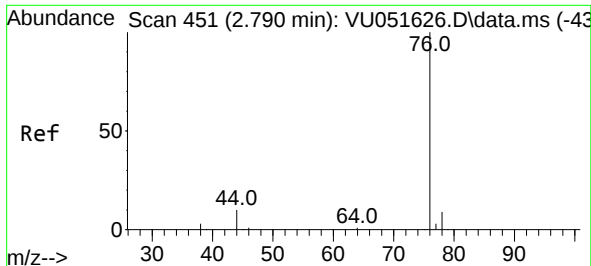
Tgt Ion: 43 Resp: 18764

Ion Ratio Lower Upper

43 100

58 41.2 0.0 73.8

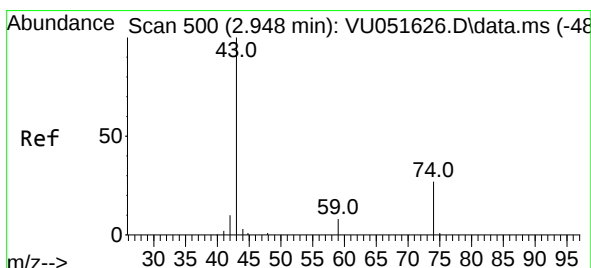
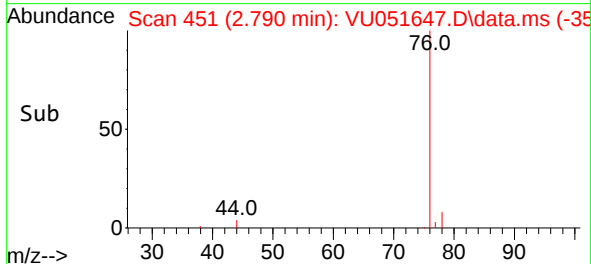
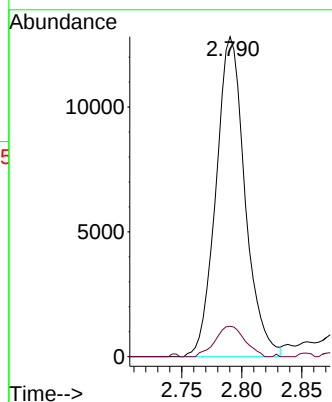
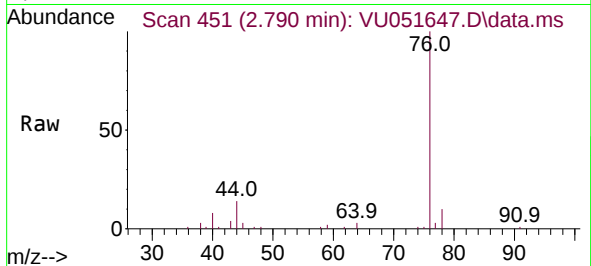




#14
Carbon disulfide
Concen: 0.311 ug/L
RT: 2.790 min Scan# 41
Delta R.T. 0.000 min
Lab File: VU051647.D
Acq: 01 Nov 2022 06:38

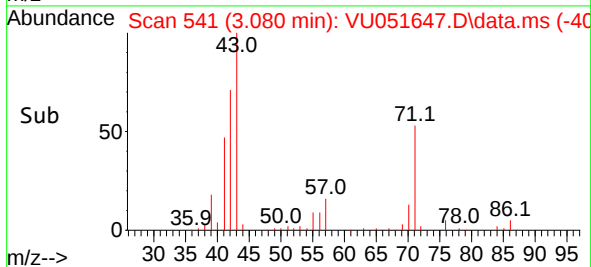
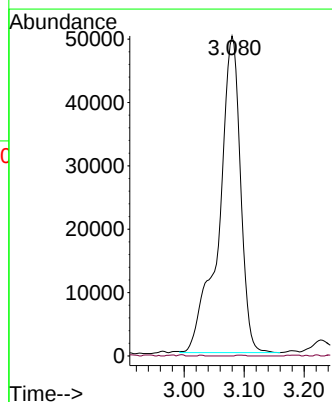
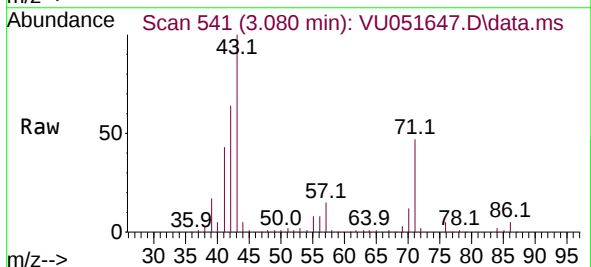
Instrument :
MSVOA_U
ClientSampleId :
BHAA0

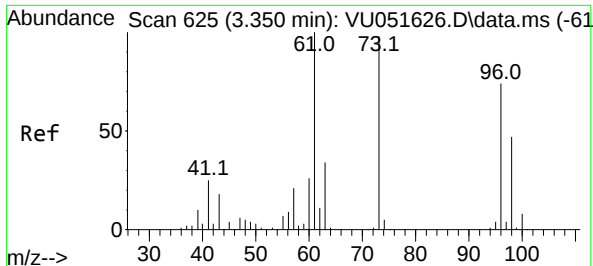
Tgt Ion: 76 Resp: 21564
Ion Ratio Lower Upper
76 100
78 9.5 7.4 11.2



#15
Methyl Acetate
Concen: 13.887 ug/L
RT: 3.080 min Scan# 541
Delta R.T. 0.132 min
Lab File: VU051647.D
Acq: 01 Nov 2022 06:38

Tgt Ion: 43 Resp: 124563
Ion Ratio Lower Upper
43 100
74 0.1 20.2 30.4#





#18

trans-1,2-Dichloroethene

Concen: 0.362 ug/L

RT: 3.353 min Scan# 61

Delta R.T. 0.003 min

Lab File: VU051647.D

Acq: 01 Nov 2022 06:38

Instrument :

MSVOA_U

ClientSampleId :

BHAA0

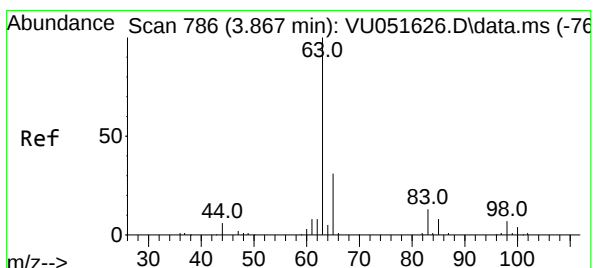
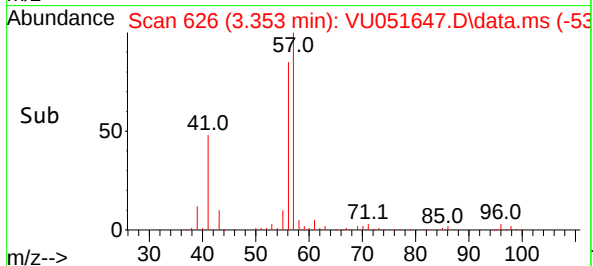
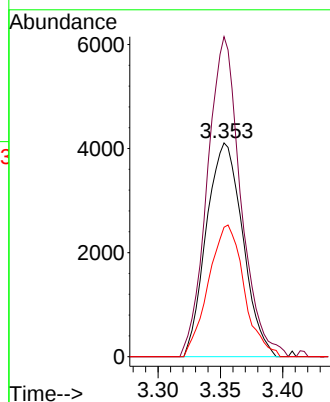
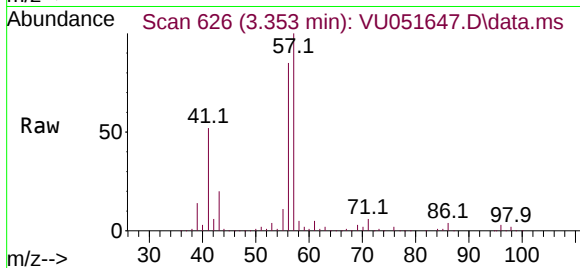
Tgt Ion: 96 Resp: 8352

Ion Ratio Lower Upper

96 100

61 149.7 94.7 175.9

98 60.6 44.2 82.0



#19

1,1-Dichloroethane

Concen: 0.123 ug/L

RT: 3.867 min Scan# 786

Delta R.T. 0.000 min

Lab File: VU051647.D

Acq: 01 Nov 2022 06:38

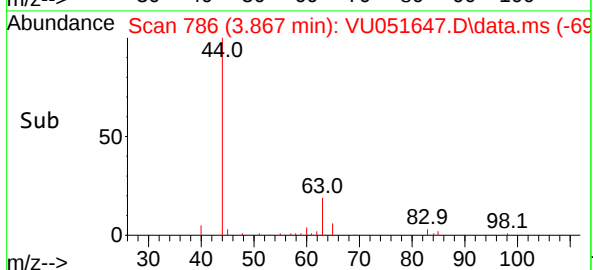
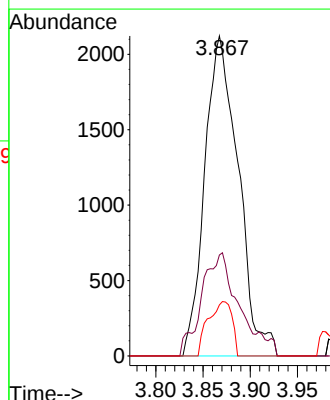
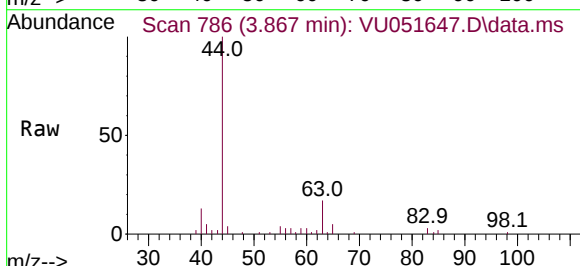
Tgt Ion: 63 Resp: 5233

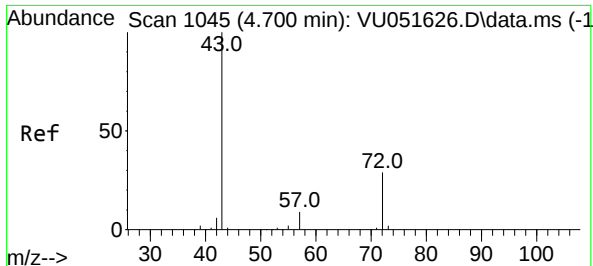
Ion Ratio Lower Upper

63 100

65 31.5 22.7 42.1

83 15.9 9.2 17.0

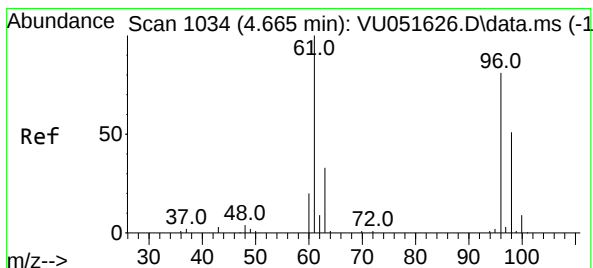
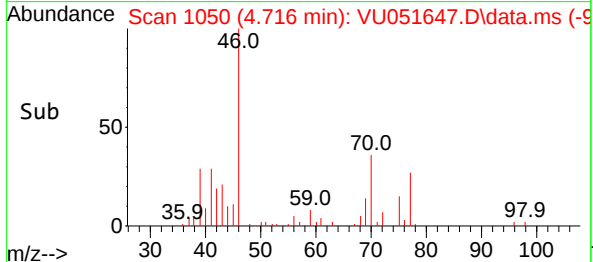
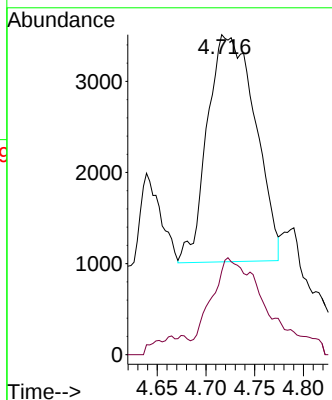
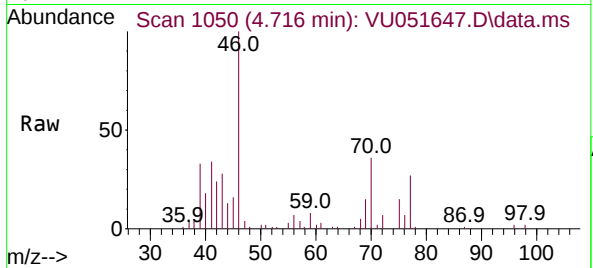




#21
2-Butanone
Concen: 1.580 ug/L
RT: 4.716 min Scan# 1050
Delta R.T. 0.016 min
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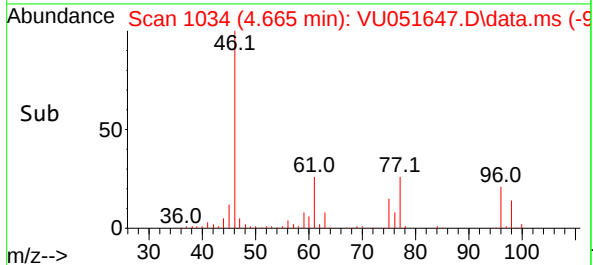
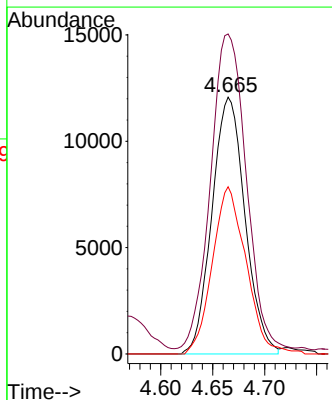
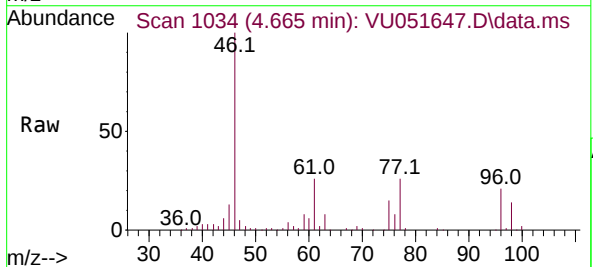
Instrument :
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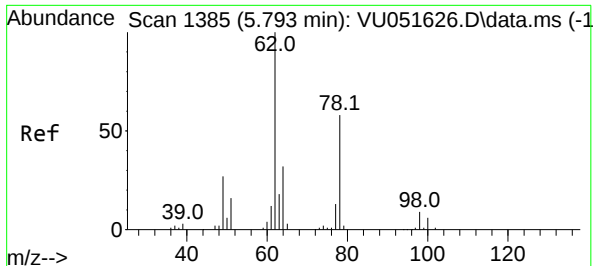
Tgt Ion: 43 Resp: 8478
Ion Ratio Lower Upper
43 100
72 50.4 16.2 48.5#



#22
cis-1,2-Dichloroethene
Concen: 1.047 ug/L
RT: 4.665 min Scan# 1034
Delta R.T. 0.000 min
Lab File: VU051647.D
Acq: 01 Nov 2022 06:38

Tgt Ion: 96 Resp: 26762
Ion Ratio Lower Upper
96 100
61 124.6 86.4 160.4
98 65.1 44.2 82.2





#27

1,2-Dichloroethane

Concen: 12.982 ug/L

RT: 5.777 min Scan# 11

Delta R.T. -0.016 min

Lab File: VU051647.D

Acq: 01 Nov 2022 06:38

Instrument :

MSVOA_U

ClientSampleId :

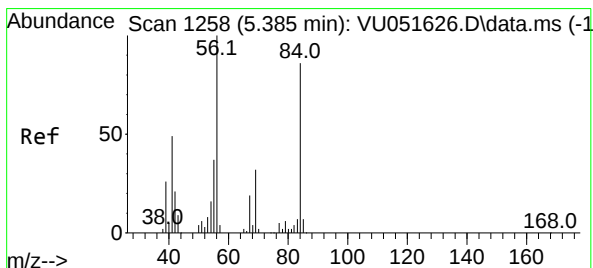
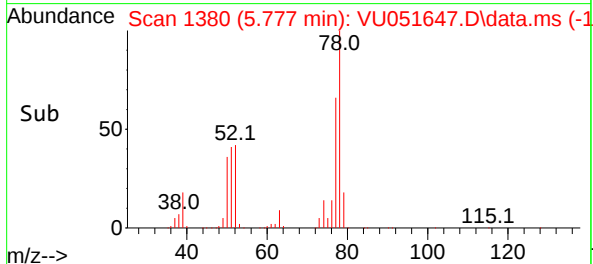
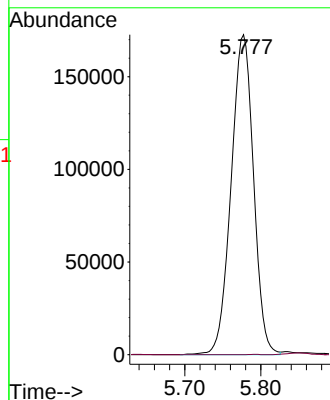
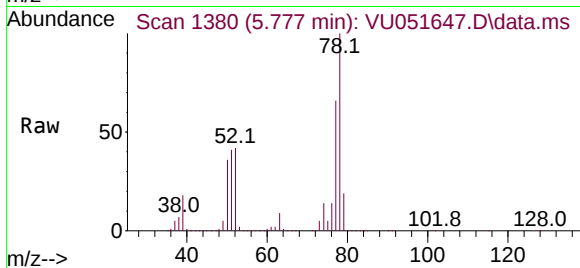
BHAA0

Tgt Ion: 62 Resp: 353109

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



#30

Cyclohexane

Concen: 8.212 ug/L

RT: 5.385 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VU051647.D

Acq: 01 Nov 2022 06:38

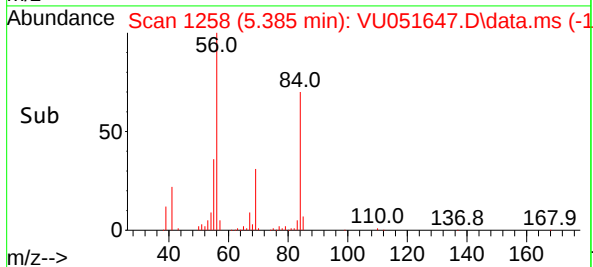
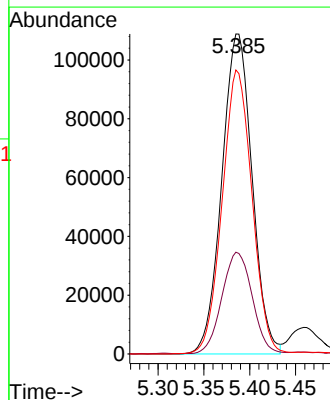
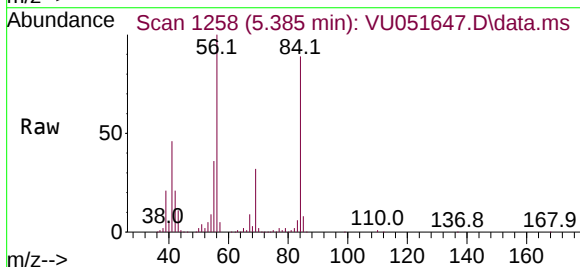
Tgt Ion: 56 Resp: 250053

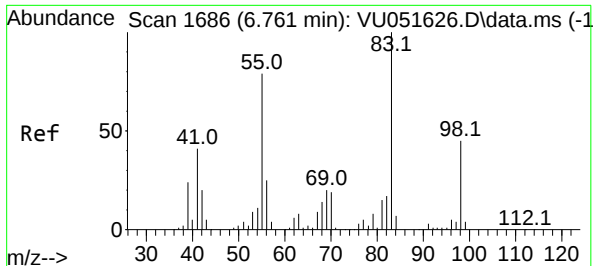
Ion Ratio Lower Upper

56 100

69 31.6 25.4 38.0

84 87.4 71.4 107.0





#35

Methylcyclohexane

Concen: 7.725 ug/L

RT: 6.761 min Scan# 1

Delta R.T. 0.000 min

Lab File: VU051647.D

Acq: 01 Nov 2022 06:38

Instrument :

MSVOA_U

ClientSampleId :

BHAA0

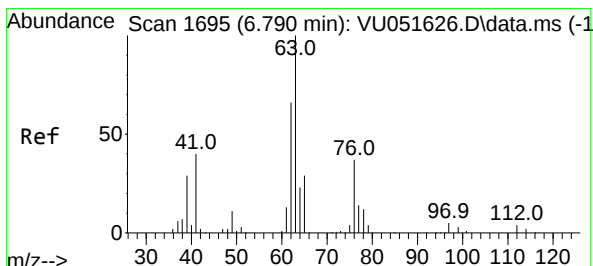
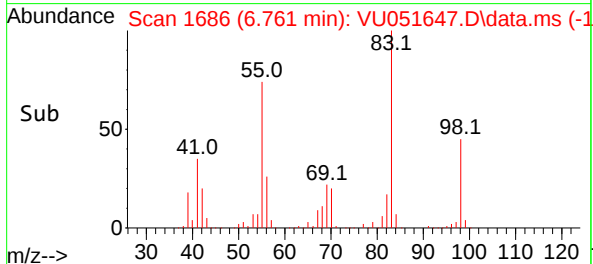
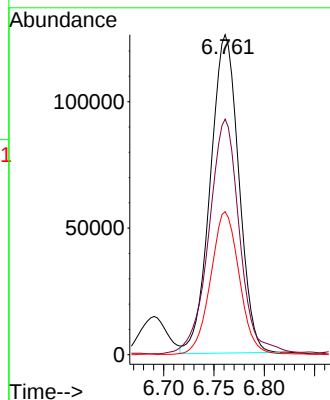
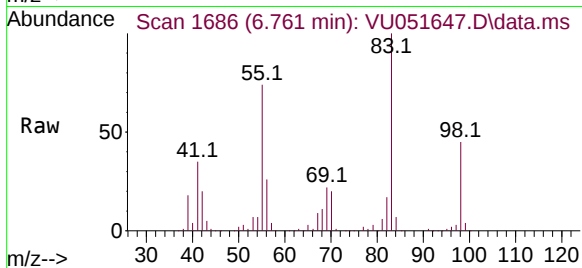
Tgt Ion: 83 Resp: 247737

Ion Ratio Lower Upper

83 100

55 79.5 60.6 90.8

98 45.5 35.8 53.6



#37

1,2-Dichloropropane

Concen: 0.113 ug/L

RT: 6.758 min Scan# 1685

Delta R.T. -0.032 min

Lab File: VU051647.D

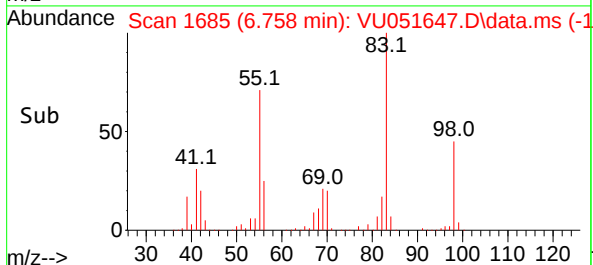
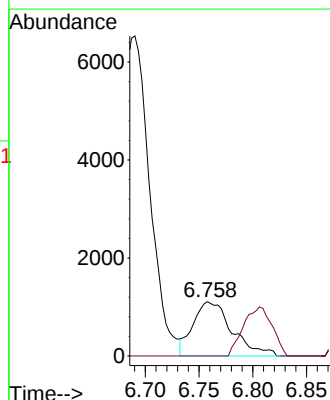
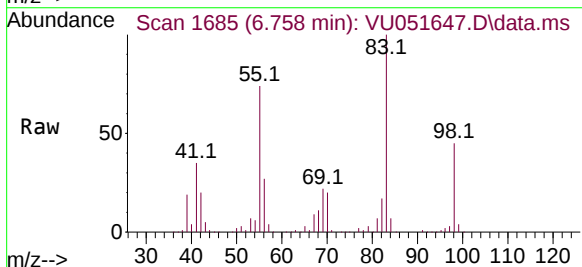
Acq: 01 Nov 2022 06:38

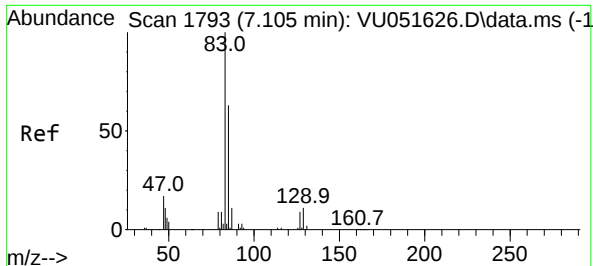
Tgt Ion: 63 Resp: 2790

Ion Ratio Lower Upper

63 100

112 66.6 3.3 4.9#

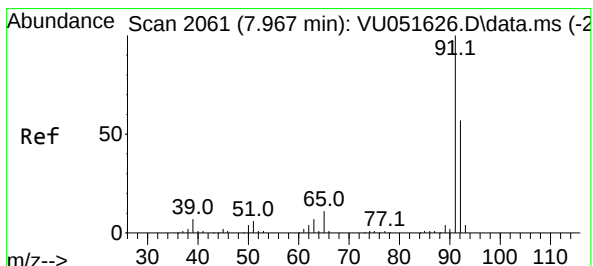
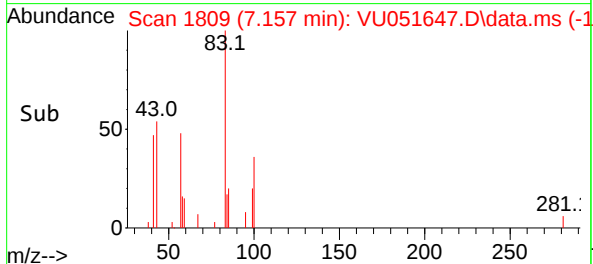
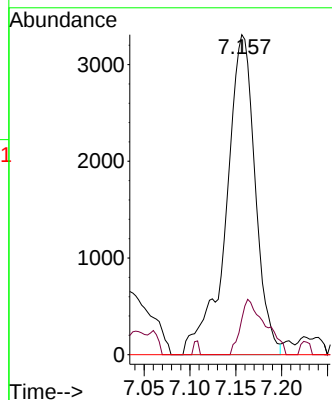
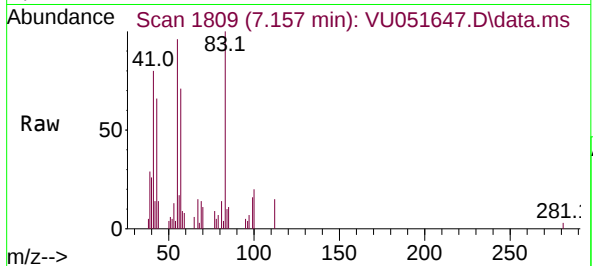




#38
Bromodichloromethane
Concen: 0.242 ug/L
RT: 7.157 min Scan# 11
Delta R.T. 0.052 min
Lab File: VU051647.D
Acq: 01 Nov 2022 06:38

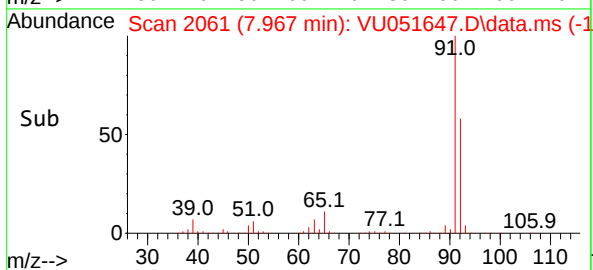
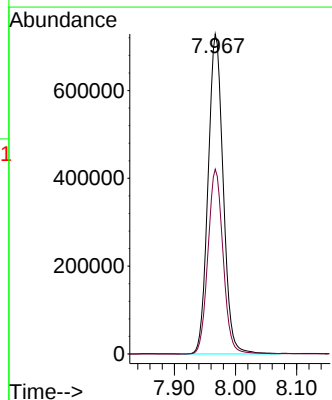
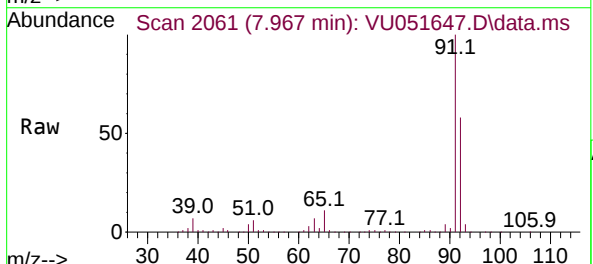
Instrument :
MSVOA_U
ClientSampleId :
BHAA0

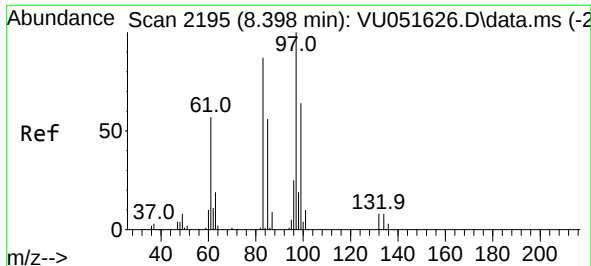
Tgt Ion: 83 Resp: 7319
Ion Ratio Lower Upper
83 100
85 11.2 45.1 83.7#
127 0.0 6.6 9.8#



#42
Toluene
Concen: 12.656 ug/L
RT: 7.967 min Scan# 2061
Delta R.T. 0.000 min
Lab File: VU051647.D
Acq: 01 Nov 2022 06:38

Tgt Ion: 91 Resp: 1249249
Ion Ratio Lower Upper
91 100
92 57.8 40.5 75.3





#45

1,1,2-Trichloroethane

Concen: 0.672 ug/L

RT: 8.369 min Scan# 2195

Delta R.T. -0.029 min

Lab File: VU051647.D

Acq: 01 Nov 2022 06:38

Instrument :

MSVOA_U

ClientSampleId :

BHAA0

Tgt Ion: 97 Resp: 12171

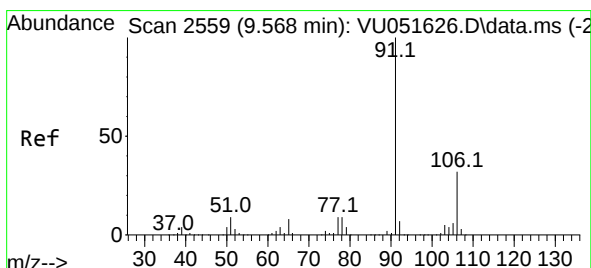
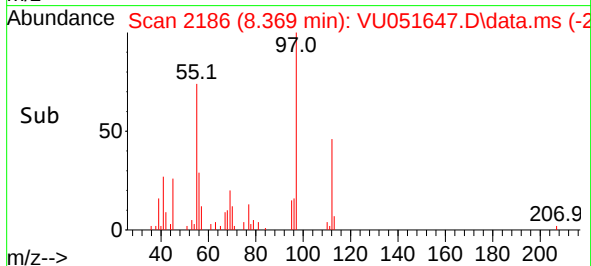
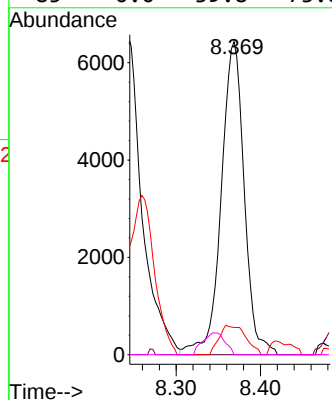
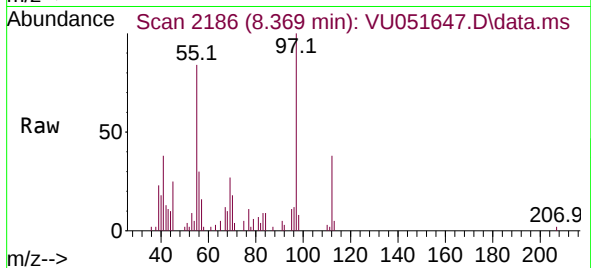
Ion Ratio Lower Upper

97 100

99 0.0 43.4 80.6#

83 8.7 61.3 113.9#

85 0.0 39.8 73.8#



#52

Ethylbenzene

Concen: 39.728 ug/L

RT: 9.568 min Scan# 2559

Delta R.T. 0.000 min

Lab File: VU051647.D

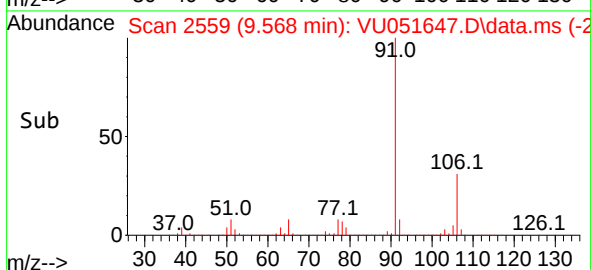
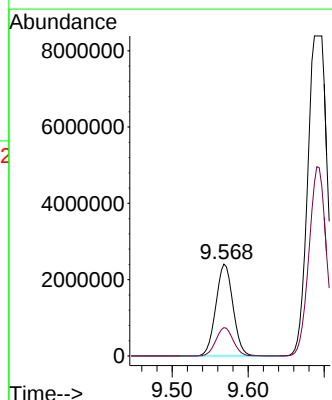
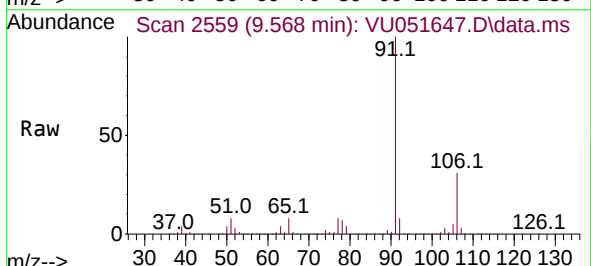
Acq: 01 Nov 2022 06:38

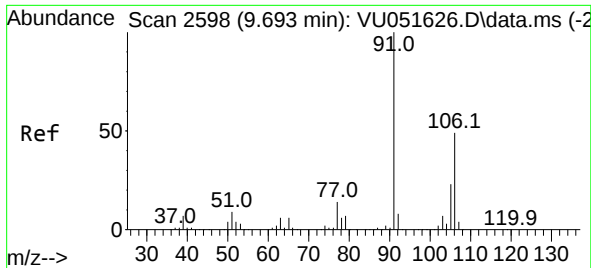
Tgt Ion: 91 Resp: 3783732

Ion Ratio Lower Upper

91 100

106 30.8 21.8 40.6

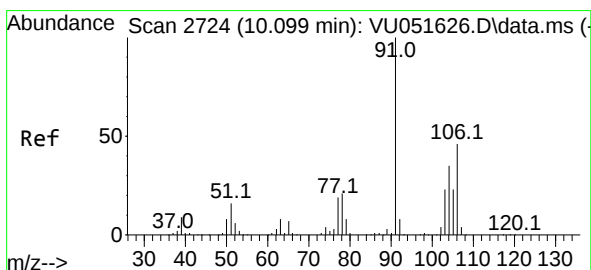
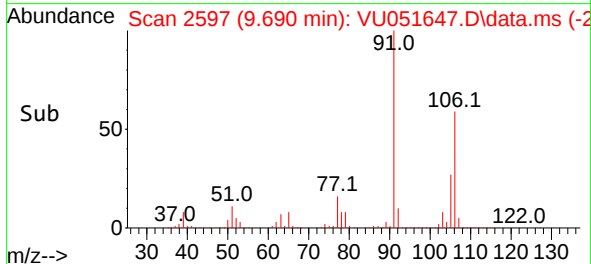
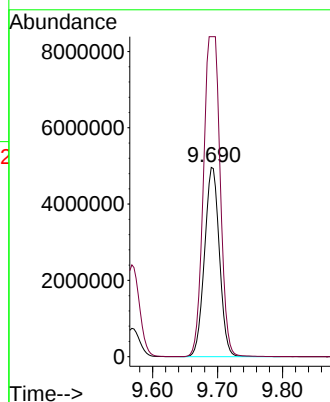
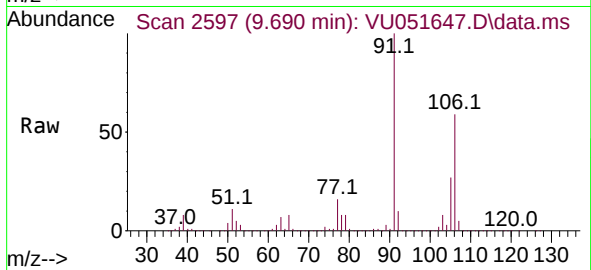




#53
m,p-Xylene
Concen: 213.650 ug/L
RT: 9.690 min Scan# 21
Delta R.T. -0.003 min
Lab File: VU051647.D
Acq: 01 Nov 2022 06:38

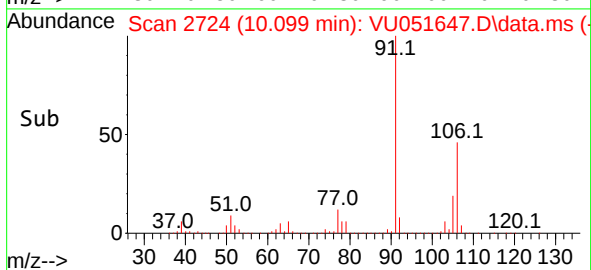
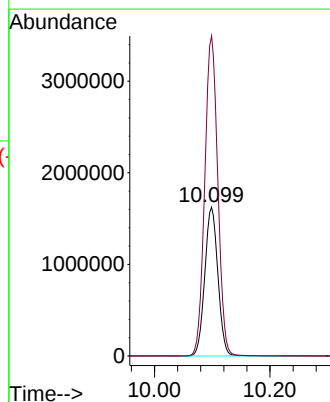
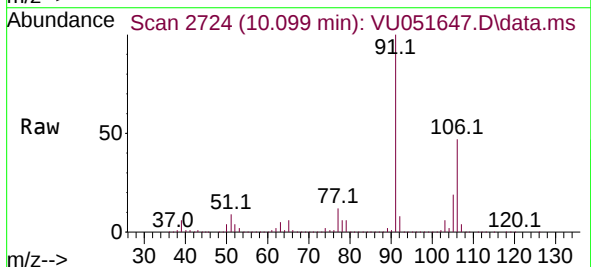
Instrument :
MSVOA_U
ClientSampleId :
BHAA0

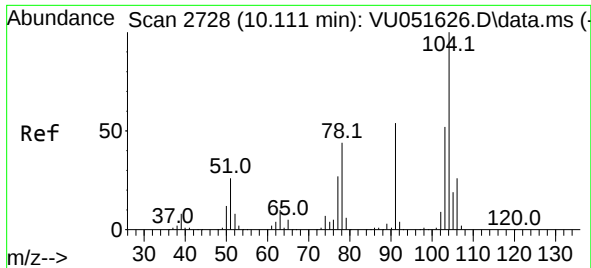
Tgt Ion:106 Resp: 7903536
Ion Ratio Lower Upper
106 100
91 169.1 139.4 259.0



#54
o-Xylene
Concen: 70.590 ug/L
RT: 10.099 min Scan# 2724
Delta R.T. 0.000 min
Lab File: VU051647.D
Acq: 01 Nov 2022 06:38

Tgt Ion:106 Resp: 2552054
Ion Ratio Lower Upper
106 100
91 215.0 149.2 277.2

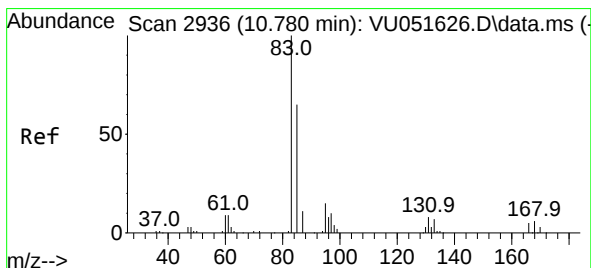
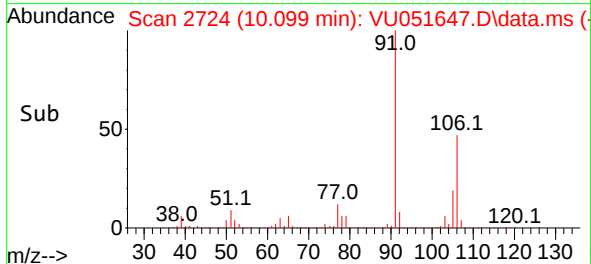
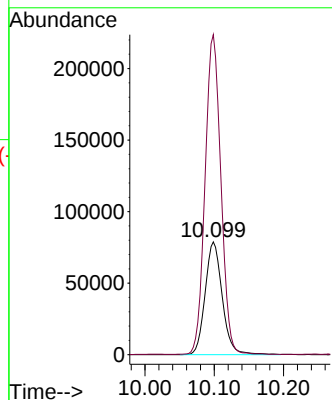
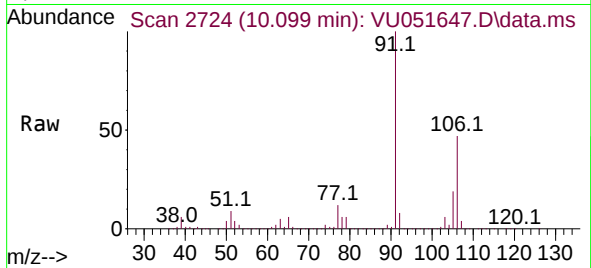




#55
Styrene
Concen: 2.238 ug/L
RT: 10.099 min Scan# 21
Delta R.T. -0.013 min
Lab File: VU051647.D
Acq: 01 Nov 2022 06:38

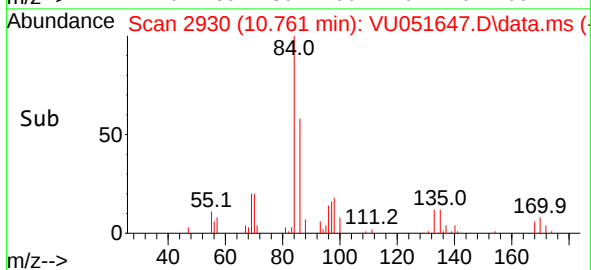
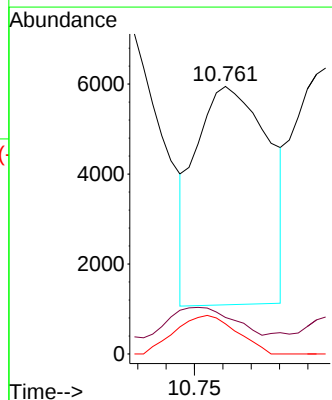
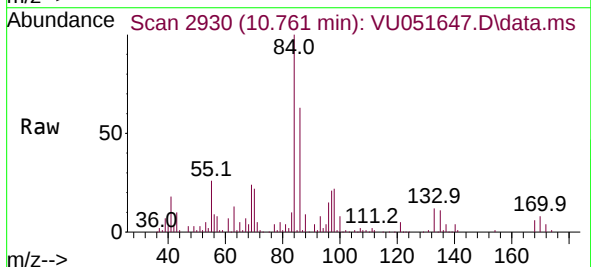
Instrument :
MSVOA_U
ClientSampleId :
BHAA0

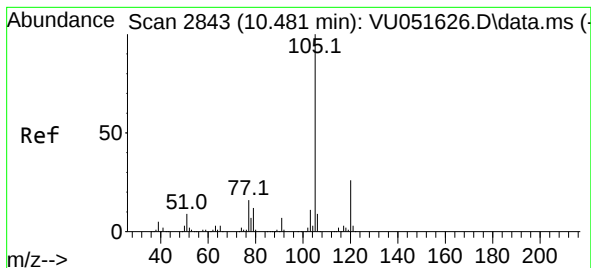
Tgt Ion:104 Resp: 135246
Ion Ratio Lower Upper
104 100
78 283.8 31.8 59.0#



#57
1,1,2,2-Tetrachloroethane
Concen: 0.385 ug/L
RT: 10.761 min Scan# 2930
Delta R.T. -0.019 min
Lab File: VU051647.D
Acq: 01 Nov 2022 06:38

Tgt Ion: 83 Resp: 8655
Ion Ratio Lower Upper
83 100
85 13.6 44.9 83.5#
131 11.3 7.8 11.8





#60

Isopropylbenzene

Concen: 31.175 ug/L

RT: 10.481 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU051647.D

Acq: 01 Nov 2022 06:38

Instrument :

MSVOA_U

ClientSampleId :

BHAA0

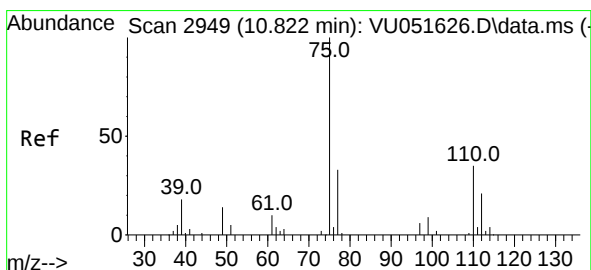
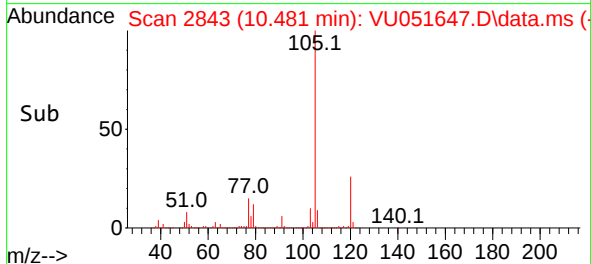
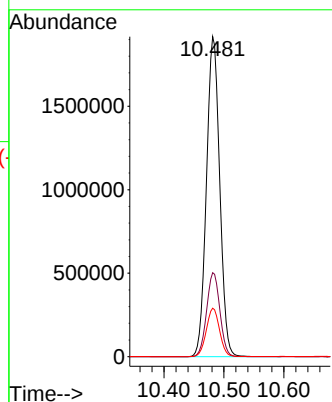
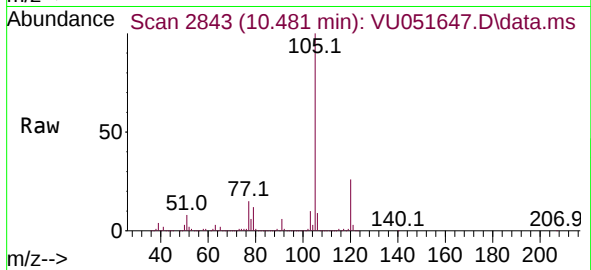
Tgt Ion:105 Resp: 2952305

Ion Ratio Lower Upper

105 100

120 26.3 20.9 31.3

77 15.1 12.3 18.5



#61

1,2,3-Trichloropropane

Concen: 3.533 ug/L

RT: 10.099 min Scan# 2724

Delta R.T. -0.723 min

Lab File: VU051647.D

Acq: 01 Nov 2022 06:38

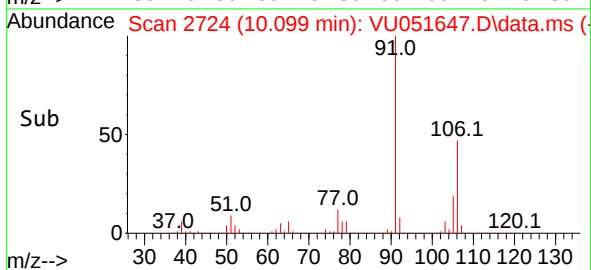
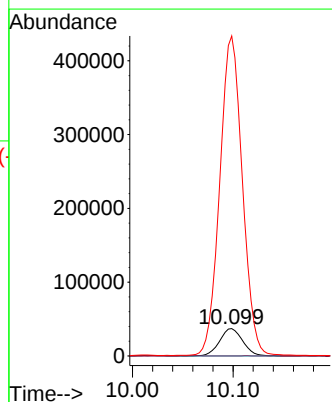
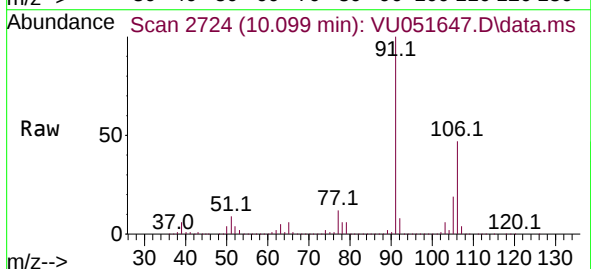
Tgt Ion: 75 Resp: 59262

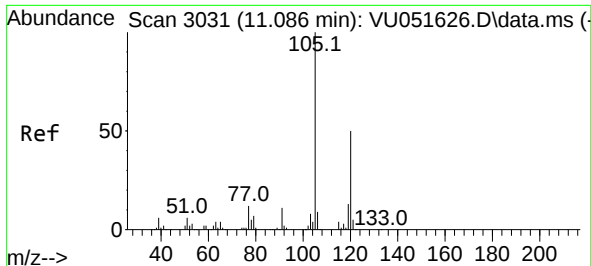
Ion Ratio Lower Upper

75 100

110 0.0 28.7 43.1#

77 1142.8 26.1 39.1#

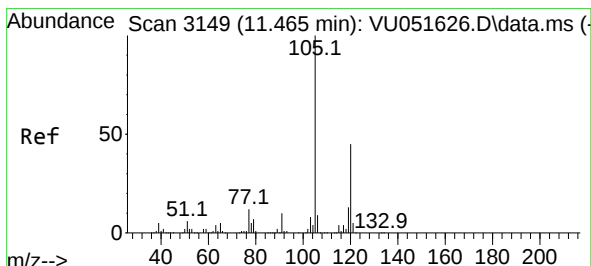
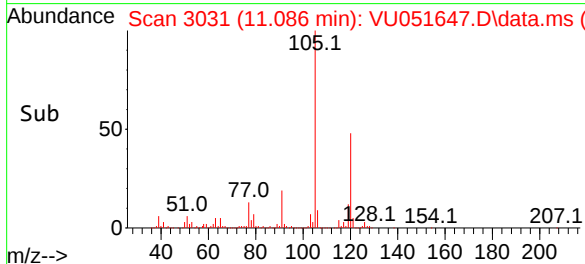
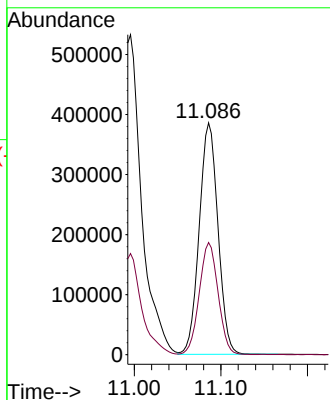
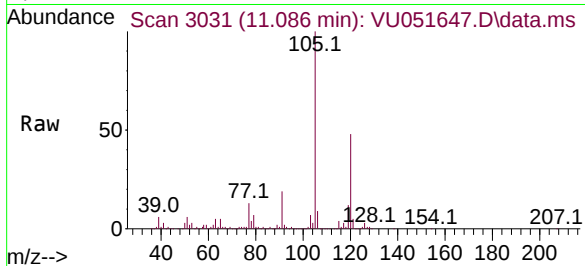




#62
1,3,5-Trimethylbenzene
Concen: 22.735 ug/L
RT: 11.086 min Scan# 3031
Delta R.T. 0.000 min
Lab File: VU051647.D
Acq: 01 Nov 2022 06:38

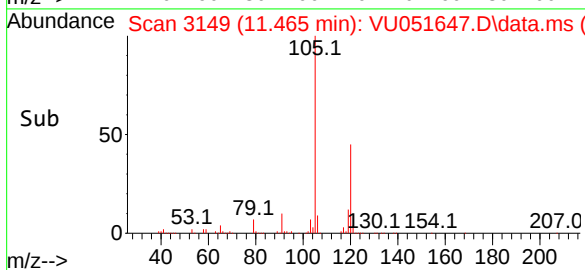
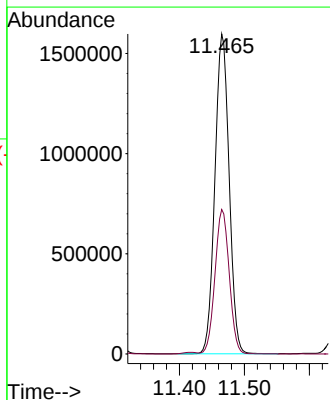
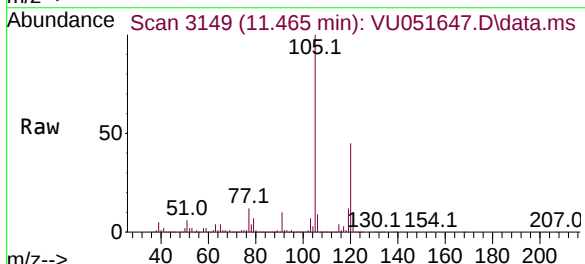
Instrument :
MSVOA_U
ClientSampleId :
BHAA0

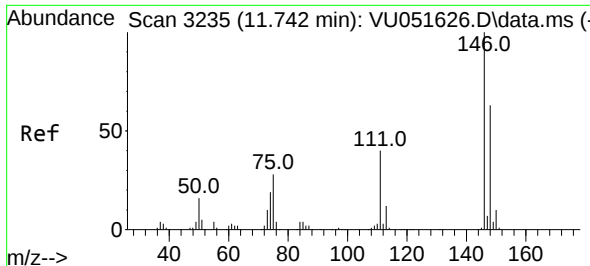
Tgt Ion:105 Resp: 579637
Ion Ratio Lower Upper
105 100
120 48.5 38.6 57.8



#63
1,2,4-Trimethylbenzene
Concen: 32.902 ug/L
RT: 11.465 min Scan# 3149
Delta R.T. 0.000 min
Lab File: VU051647.D
Acq: 01 Nov 2022 06:38

Tgt Ion:105 Resp: 2418726
Ion Ratio Lower Upper
105 100
120 45.2 35.8 53.6

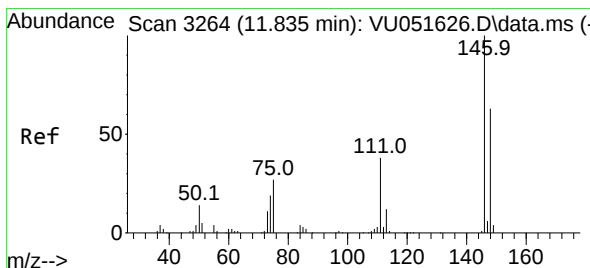
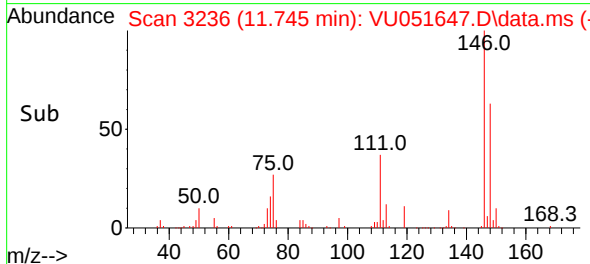
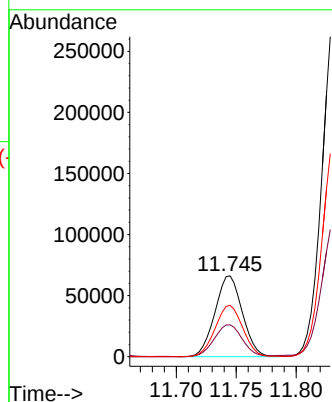
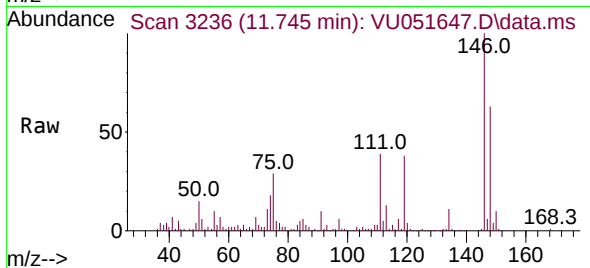




#64
1,3-Dichlorobenzene
Concen: 2.226 ug/L
RT: 11.745 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU051647.D
Acq: 01 Nov 2022 06:38

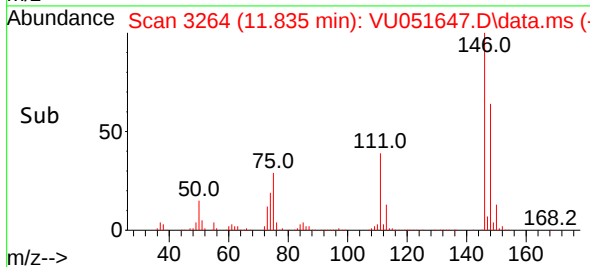
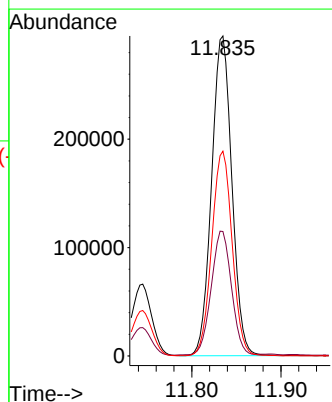
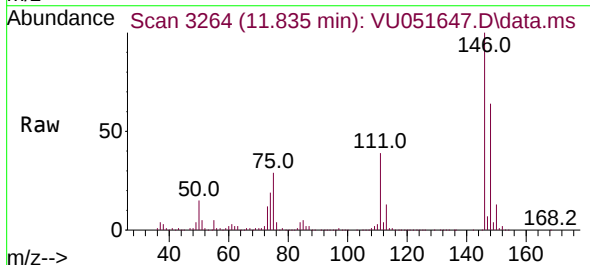
Instrument :
MSVOA_U
ClientSampleId :
BHAA0

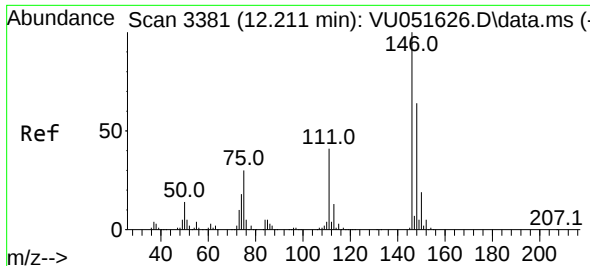
Tgt Ion:146 Resp: 104927
Ion Ratio Lower Upper
146 100
111 39.4 28.6 53.2
148 63.4 44.7 82.9



#65
1,4-Dichlorobenzene
Concen: 9.862 ug/L
RT: 11.835 min Scan# 3264
Delta R.T. 0.000 min
Lab File: VU051647.D
Acq: 01 Nov 2022 06:38

Tgt Ion:146 Resp: 466212
Ion Ratio Lower Upper
146 100
111 38.9 26.7 49.5
148 64.0 43.5 80.9





#67

1,2-Dichlorobenzene

Concen: 4.674 ug/L

RT: 12.208 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU051647.D

Acq: 01 Nov 2022 06:38

Instrument :

MSVOA_U

ClientSampleId :

BHAA0

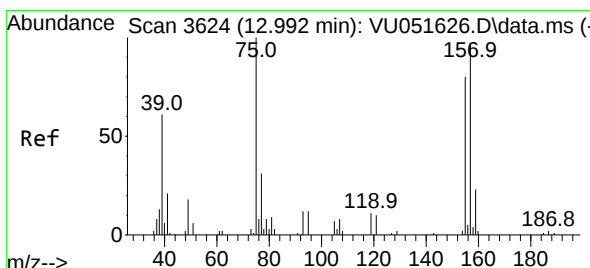
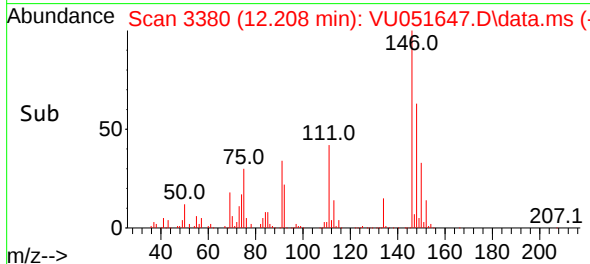
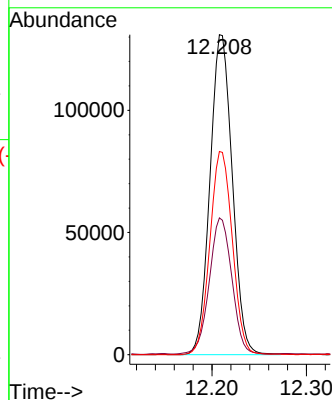
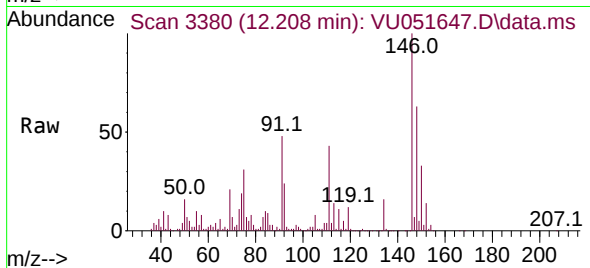
Tgt Ion:146 Resp: 214643

Ion Ratio Lower Upper

146 100

111 42.7 34.2 51.2

148 63.5 50.1 75.1



#68

1,2-Dibromo-3-chloropropane

Concen: 1.162 ug/L

RT: 12.967 min Scan# 3616

Delta R.T. -0.026 min

Lab File: VU051647.D

Acq: 01 Nov 2022 06:38

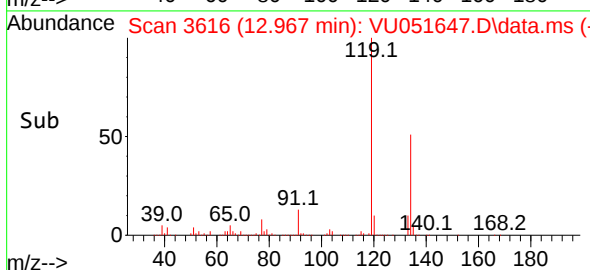
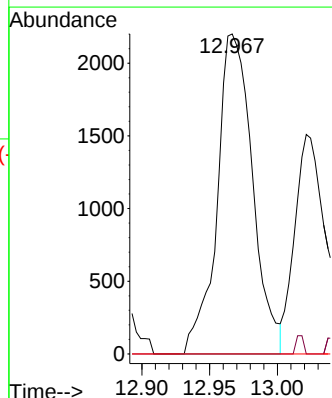
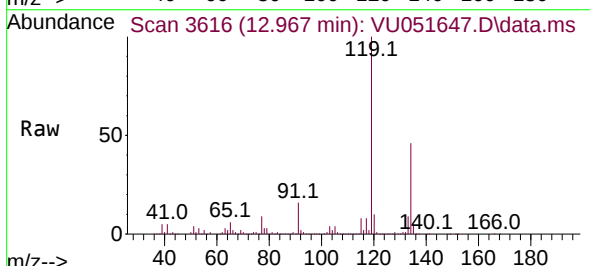
Tgt Ion: 75 Resp: 4013

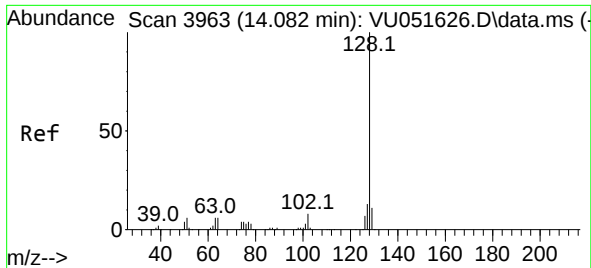
Ion Ratio Lower Upper

75 100

155 0.0 61.4 92.2#

157 0.0 86.7 130.1#





#71
Naphthalene
Concen: 4.367 ug/L
RT: 14.082 min Scan# 3963
Delta R.T. 0.000 min
Lab File: VU051647.D
Acq: 01 Nov 2022 06:38

Instrument :
MSVOA_U
ClientSampleId :
BHAA0

Tgt Ion:128 Resp: 210322
Ion Ratio Lower Upper
128 100
129 12.3 8.4 12.6
127 13.0 10.3 15.5

