

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102622\
 Data File : VU051533.D
 Acq On : 27 Oct 2022 04:39
 Operator : JC/MD
 Sample : N5300-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BHAC5

Quant Time: Oct 27 08:27:59 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	328067	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.420	117	329210	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.812	152	177662	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.594	65	113496	4.289	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	85.800%
7) Chloroethane-d5	1.909	69	105900	4.657	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.200%
11) 1,1-Dichloroethene-d2	2.562	65	40988	3.918	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.400%
20) 2-Butanone-d5	4.639	46	292886	50.269	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.540%
24) Chloroform-d	5.060	84	194085	3.934	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	78.600%
26) 1,2-Dichloroethane-d4	5.716	65	104152	4.093	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.800%
32) Benzene-d6	5.735	84	426431	4.709	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.200%
36) 1,2-Dichloropropane-d6	6.690	67	139770	4.544	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.800%
41) Toluene-d8	7.909	98	392330	4.842	ug/L	0.01
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.800%
43) trans-1,3-Dichloroprop...	8.182	79	41805	4.137	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.800%
46) 2-Hexanone-d5	8.635	63	280955	82.495	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	165.000%#
56) 1,1,2,2-Tetrachloroeth...	10.758	84	129608	5.275	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.600%
66) 1,2-Dichlorobenzene-d4	12.192	152	151506	4.906	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.200%
Target Compounds						
					Qvalue	
8) Chloroethane	1.932	64	1415332	60.213	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.562	101	1213	0.048	ug/L #	23
13) Acetone	2.372	43	1318569	301.739	ug/L	49
14) Carbon disulfide	2.787	76	12314	0.168	ug/L	99
15) Methyl Acetate	3.041	43	192605	18.131	ug/L #	51
16) Methylene chloride	3.041	84	10814	0.306	ug/L #	36
18) trans-1,2-Dichloroethene	3.349	96	21356	0.848	ug/L	98
19) 1,1-Dichloroethane	3.874	63	8291	0.160	ug/L #	78
21) 2-Butanone	4.529	43	589123	85.542	ug/L #	47
22) cis-1,2-Dichloroethene	4.661	96	1480	0.053	ug/L #	7
27) 1,2-Dichloroethane	5.800	62	1677605	51.623	ug/L #	74
30) Cyclohexane	5.388	56	663277	19.825	ug/L	100
33) Benzene	5.886	78	2716627	24.718	ug/L	100
35) Methylcyclohexane	6.761	83	1411548	40.806	ug/L	95
37) 1,2-Dichloropropane	6.761	63	10864	0.361	ug/L #	96
38) Bromodichloromethane	7.160	83	9294	0.259	ug/L #	33
40) 4-Methyl-2-pentanone	7.819	43	61269	3.877	ug/L	97
44) trans-1,3-Dichloropropene	8.018	75	2209387	70.565	ug/L #	1
45) 1,1,2-Trichloroethane	8.372	97	27589	1.304	ug/L #	18

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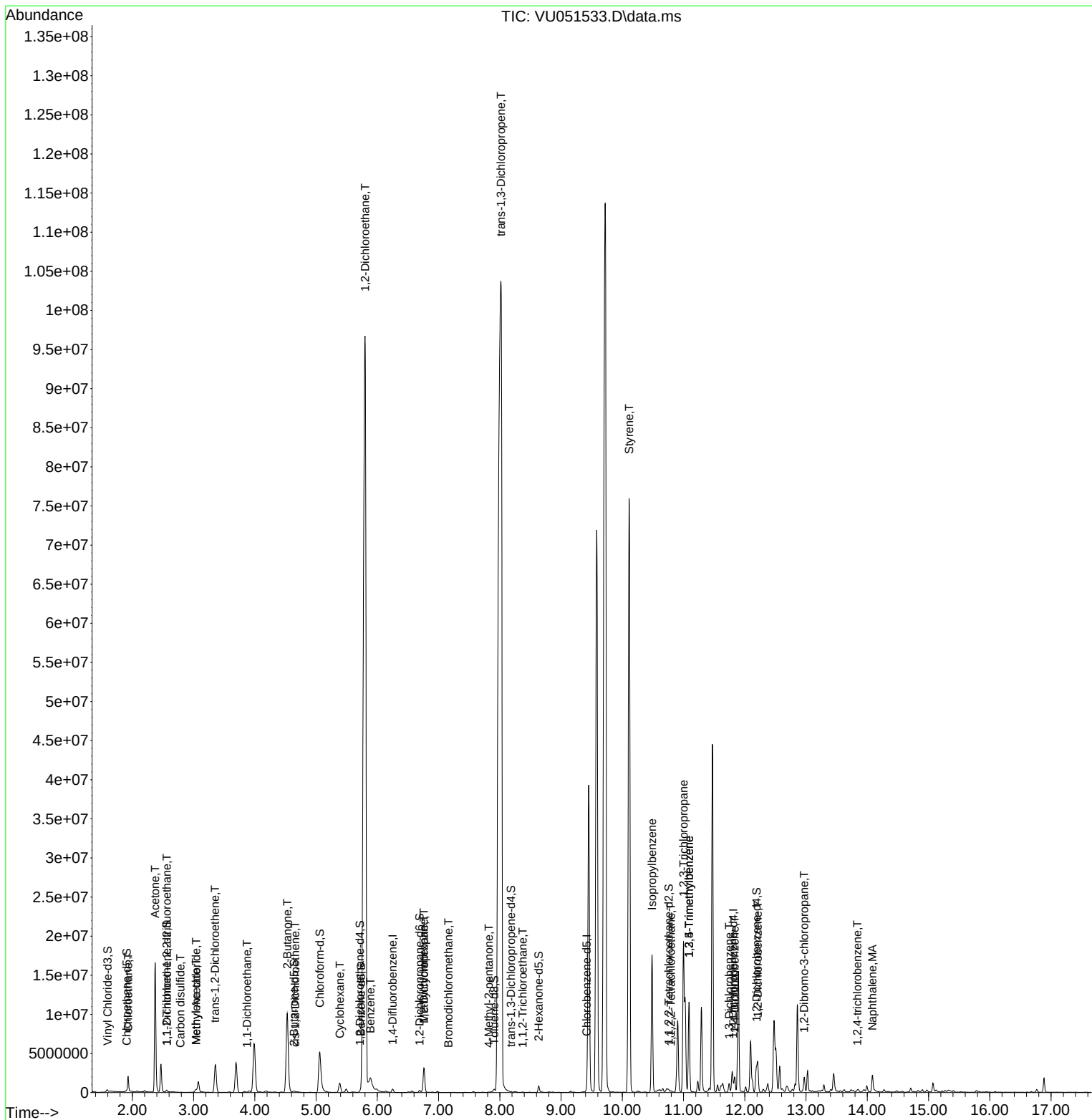
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

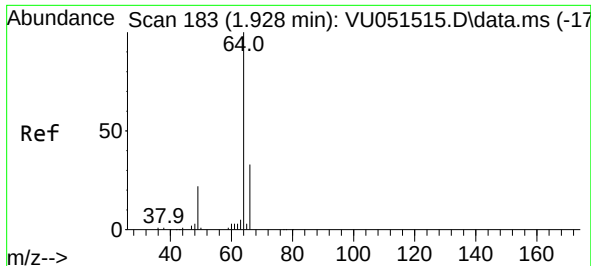
55) Styrene	10.111	104	1385373	20.919	ug/L	#	1
57) 1,1,2,2-Tetrachloroethane	10.793	83	4370	0.167	ug/L	#	67
60) Isopropylbenzene	10.484	105	12046356	107.052	ug/L		97
61) 1,2,3-Trichloropropane	10.999	75	131252	5.851	ug/L	#	1
62) 1,3,5-Trimethylbenzene	11.089	105	6236715	208.928	ug/L		98
63) 1,2,4-Trimethylbenzene	11.089	105	6236715	73.877	ug/L		94
64) 1,3-Dichlorobenzene	11.745	146	59840	1.075	ug/L		97
65) 1,4-Dichlorobenzene	11.835	146	790813	14.414	ug/L		98
67) 1,2-Dichlorobenzene	12.211	146	1304576	24.109	ug/L		98
68) 1,2-Dibromo-3-chloropr...	12.970	75	6718	1.566	ug/L	#	5
70) 1,2,4-trichlorobenzene	13.838	180	6370	0.234	ug/L	#	84
71) Naphthalene	14.082	128	1762725	34.777	ug/L		98

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

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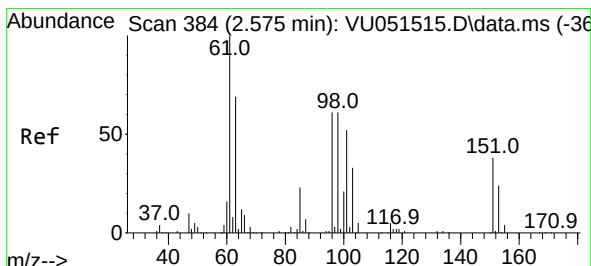
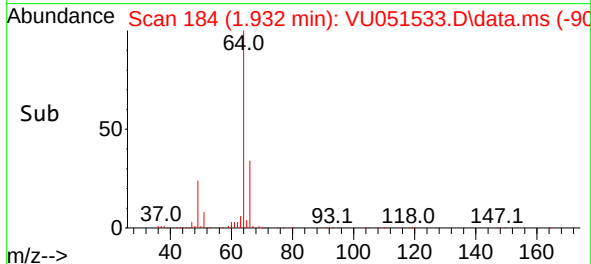
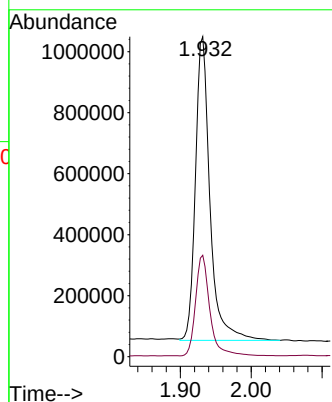
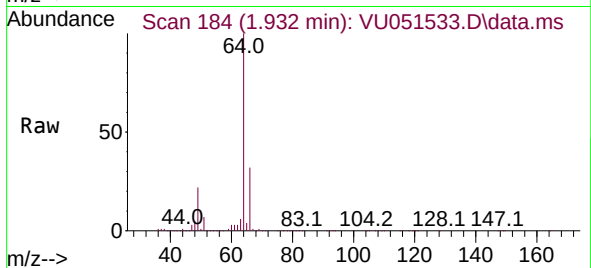




#8
Chloroethane
Concen: 60.213 ug/L
RT: 1.932 min Scan# 183
Delta R.T. 0.003 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

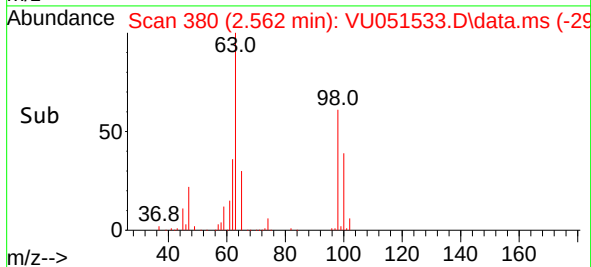
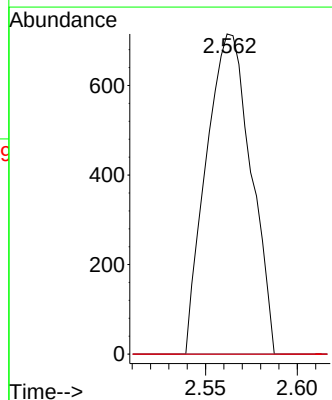
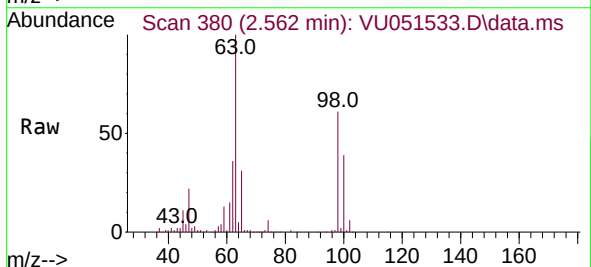
Instrument :
MSVOA_U
ClientSampleId :
BHAC5

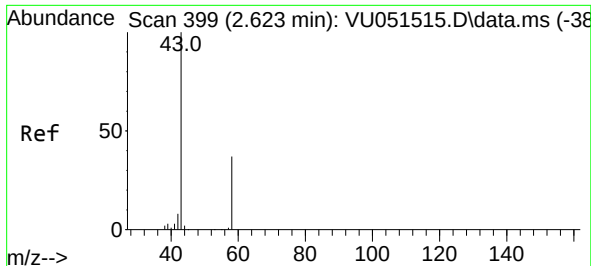
Tgt Ion: 64 Resp: 1415332
Ion Ratio Lower Upper
64 100
66 31.7 22.3 41.3



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.048 ug/L
RT: 2.562 min Scan# 380
Delta R.T. -0.013 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

Tgt Ion:101 Resp: 1213
Ion Ratio Lower Upper
101 100
85 83.8 34.6 51.8#
151 0.0 56.5 84.7#





#13

Acetone

Concen: 301.739 ug/L

RT: 2.372 min Scan# 31

Delta R.T. -0.251 min

Lab File: VU051533.D

Acq: 27 Oct 2022 04:39

Instrument :

MSVOA_U

ClientSampleId :

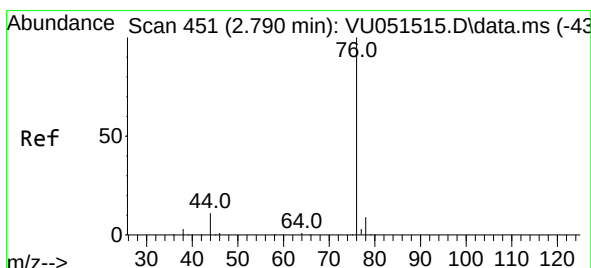
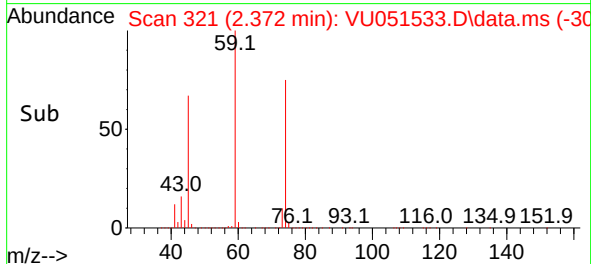
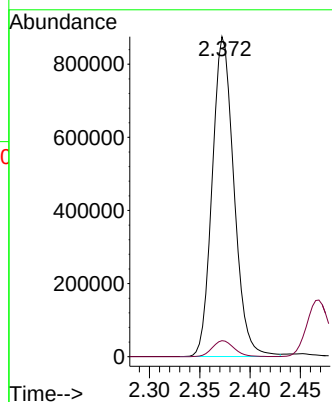
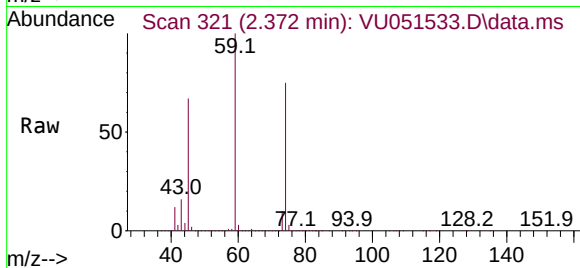
BHAC5

Tgt Ion: 43 Resp: 1318569

Ion Ratio Lower Upper

43 100

58 5.1 0.0 68.8



#14

Carbon disulfide

Concen: 0.168 ug/L

RT: 2.787 min Scan# 450

Delta R.T. -0.003 min

Lab File: VU051533.D

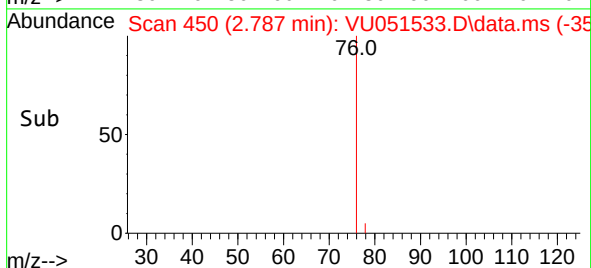
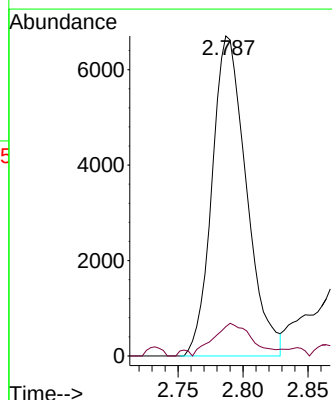
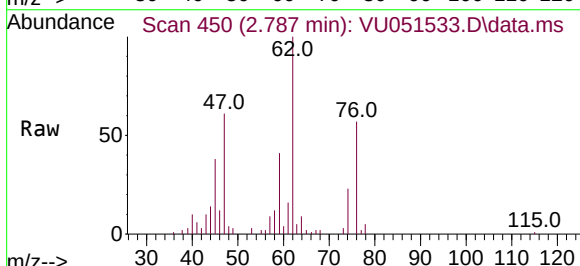
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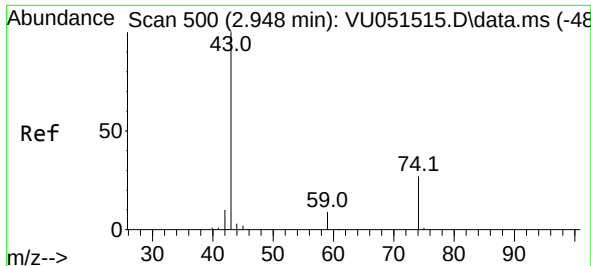
Tgt Ion: 76 Resp: 12314

Ion Ratio Lower Upper

76 100

78 9.2 7.0 10.4

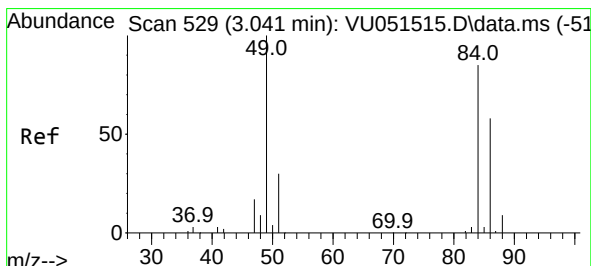
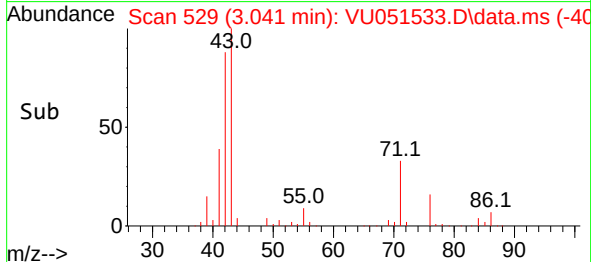
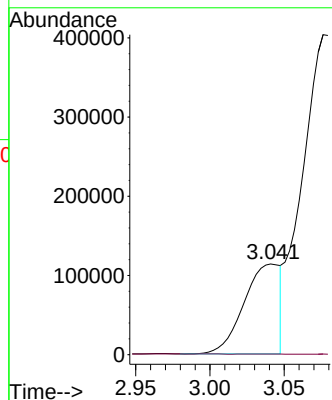
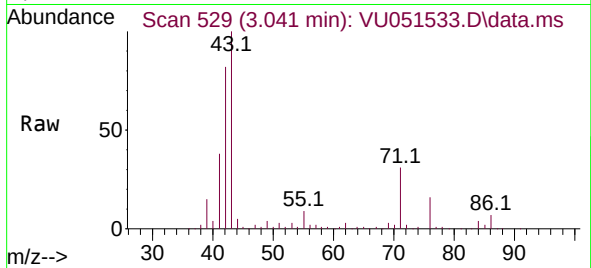




#15
Methyl Acetate
Concen: 18.131 ug/L
RT: 3.041 min Scan# 51
Delta R.T. 0.093 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

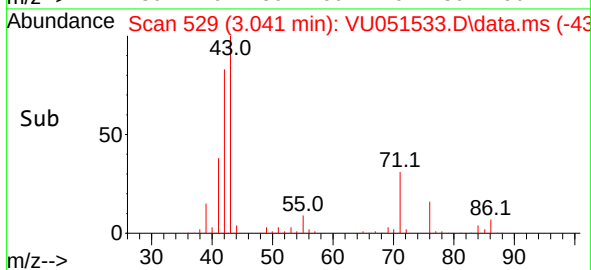
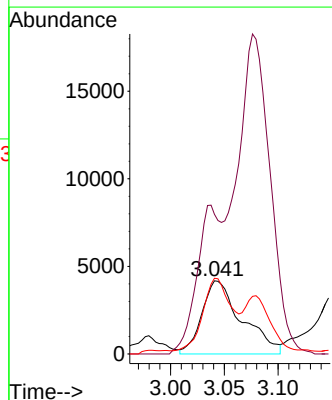
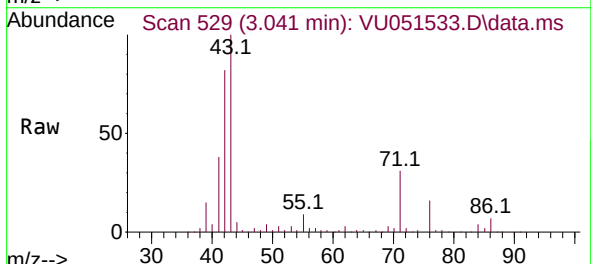
Instrument :
MSVOA_U
ClientSampleId :
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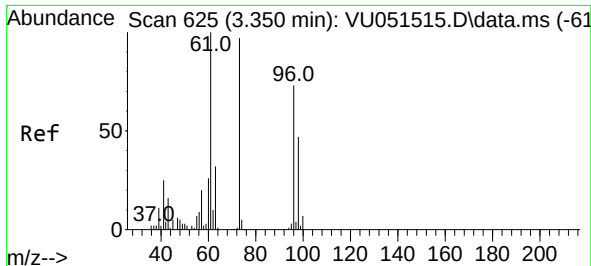
Tgt Ion: 43 Resp: 192605
Ion Ratio Lower Upper
43 100
74 0.2 20.0 30.0#



#16
Methylene chloride
Concen: 0.306 ug/L
RT: 3.041 min Scan# 529
Delta R.T. -0.000 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

Tgt Ion: 84 Resp: 10814
Ion Ratio Lower Upper
84 100
86 190.9 46.5 86.3#
49 103.4 81.3 151.1

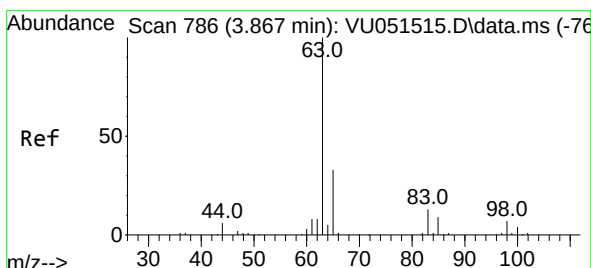
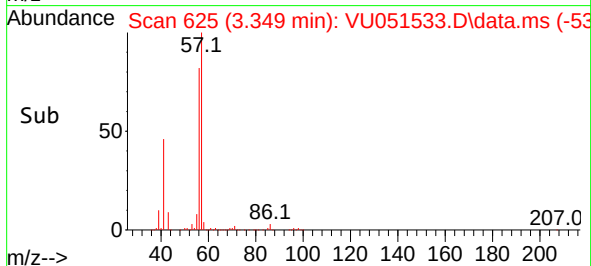
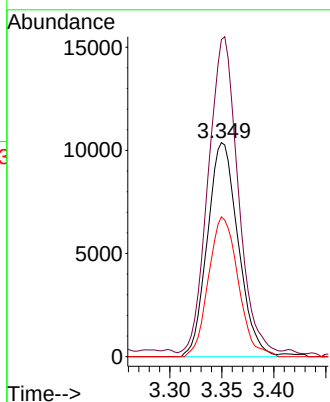
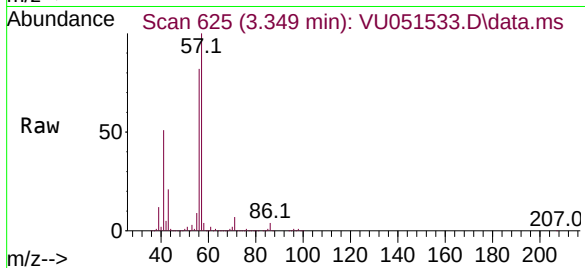




#18
trans-1,2-Dichloroethene
Concen: 0.848 ug/L
RT: 3.349 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

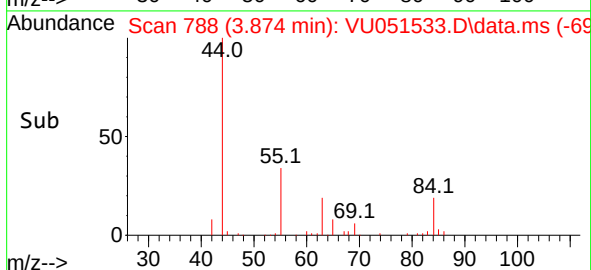
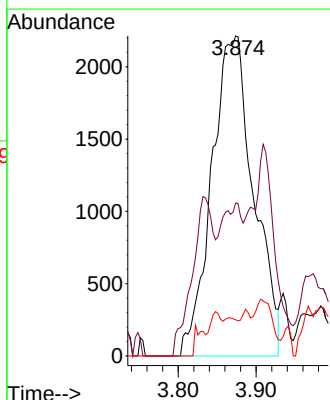
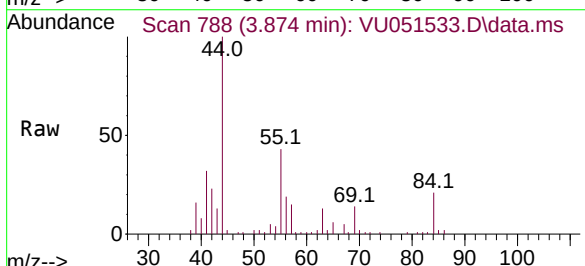
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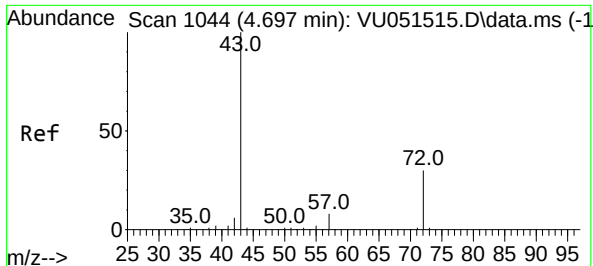
Tgt Ion: 96 Resp: 21356
Ion Ratio Lower Upper
96 100
61 148.2 101.4 188.2
98 65.3 44.9 83.5



#19
1,1-Dichloroethane
Concen: 0.160 ug/L
RT: 3.874 min Scan# 788
Delta R.T. 0.006 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

Tgt Ion: 63 Resp: 8291
Ion Ratio Lower Upper
63 100
65 47.8 22.0 41.0#
83 11.3 9.0 16.6





#21

2-Butanone

Concen: 85.542 ug/L

RT: 4.529 min Scan# 91

Delta R.T. -0.167 min

Lab File: VU051533.D

Acq: 27 Oct 2022 04:39

Instrument :

MSVOA_U

ClientSampleId :

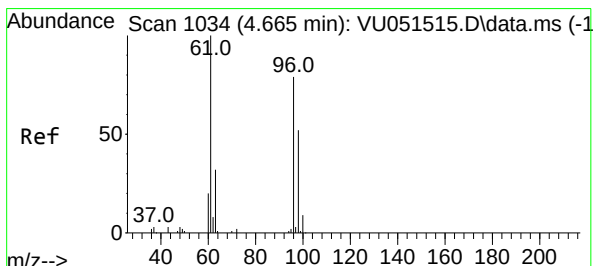
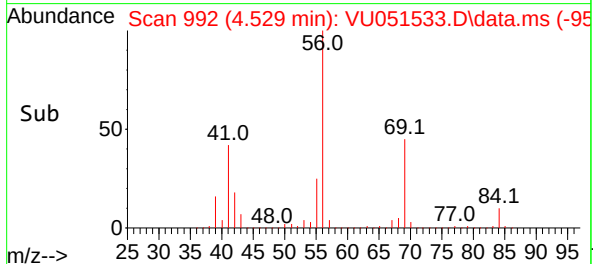
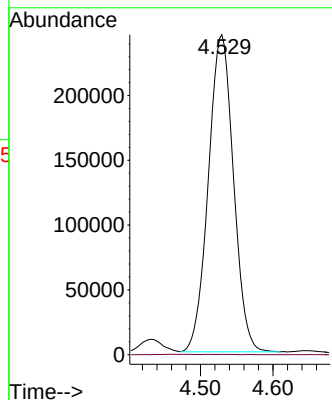
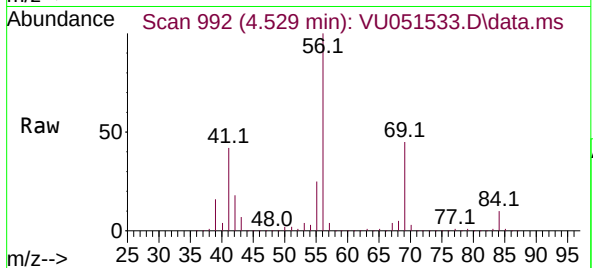
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Tgt Ion: 43 Resp: 589123

Ion Ratio Lower Upper

43 100

72 0.0 13.8 41.4#



#22

cis-1,2-Dichloroethene

Concen: 0.053 ug/L

RT: 4.661 min Scan# 1033

Delta R.T. -0.003 min

Lab File: VU051533.D

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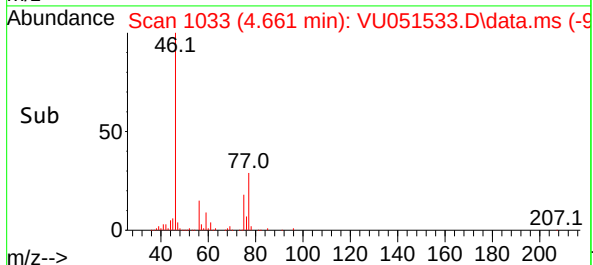
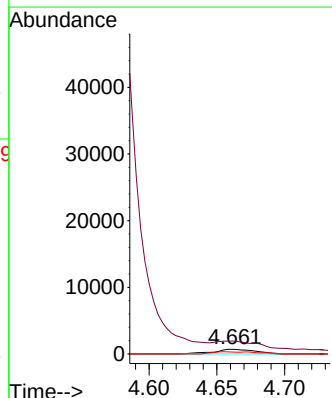
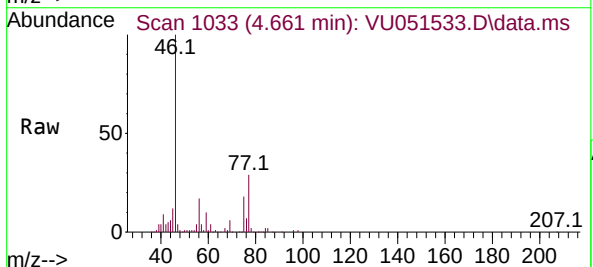
Tgt Ion: 96 Resp: 1480

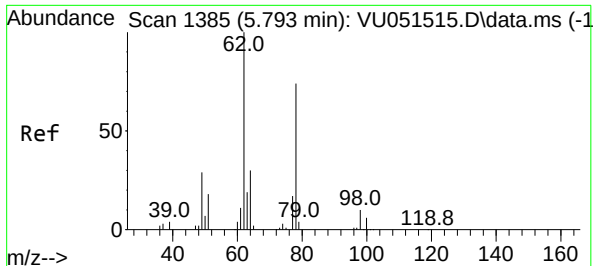
Ion Ratio Lower Upper

96 100

61 274.4 90.6 168.2#

98 41.4 47.5 88.3#

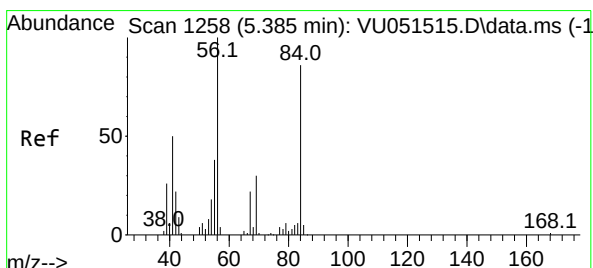
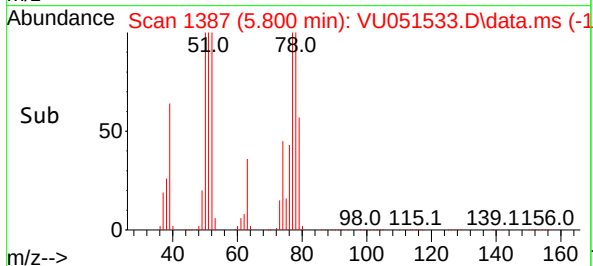
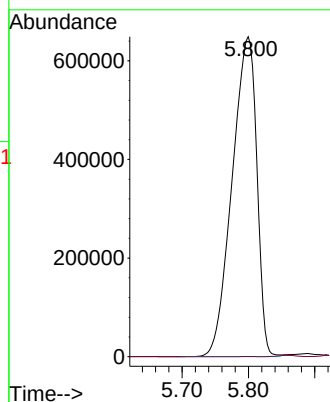
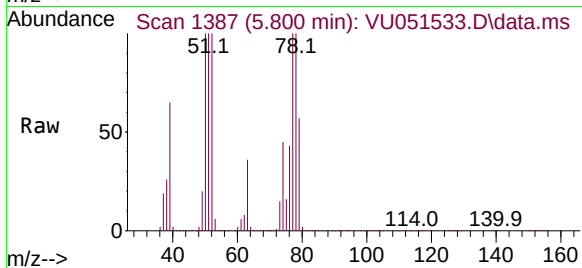




#27
1,2-Dichloroethane
Concen: 51.623 ug/L
RT: 5.800 min Scan# 11
Delta R.T. 0.006 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

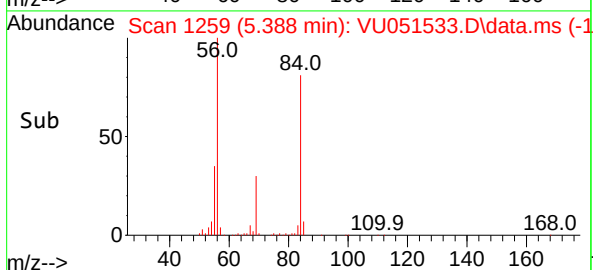
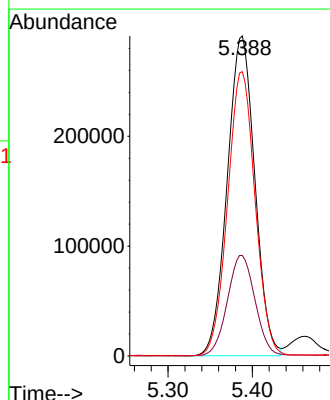
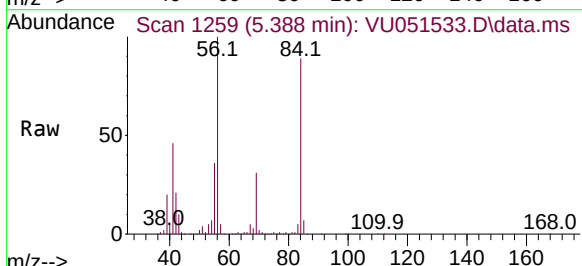
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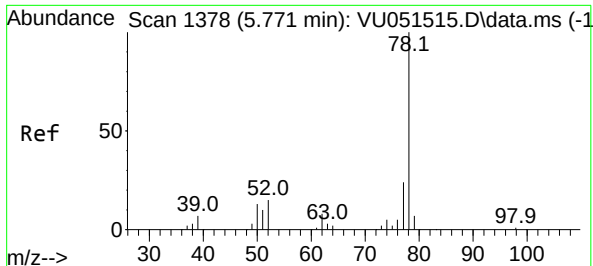
Tgt Ion: 62 Resp: 1677605
Ion Ratio Lower Upper
62 100
98 0.0 7.7 11.5#



#30
Cyclohexane
Concen: 19.825 ug/L
RT: 5.388 min Scan# 1259
Delta R.T. 0.003 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

Tgt Ion: 56 Resp: 663277
Ion Ratio Lower Upper
56 100
69 31.4 25.1 37.7
84 88.4 70.9 106.3

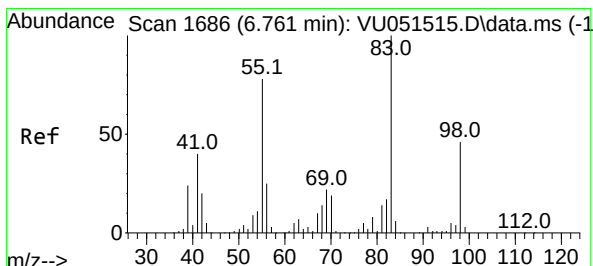
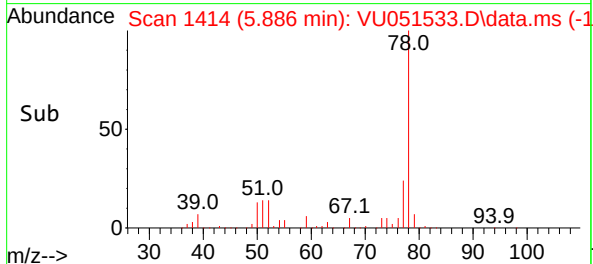
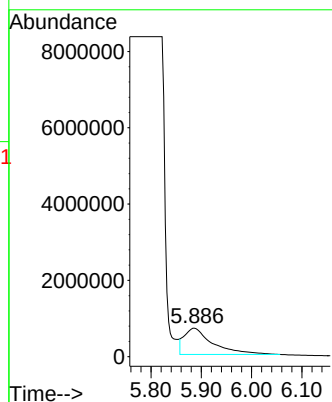
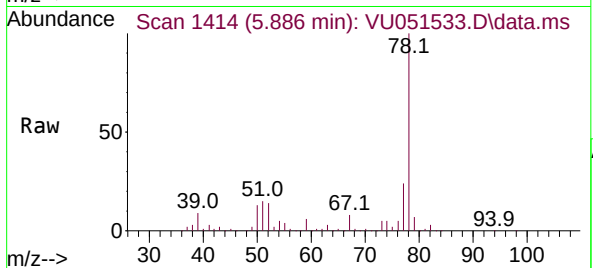




#33
Benzene
Concen: 24.718 ug/L
RT: 5.886 min Scan# 14
Delta R.T. 0.116 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

Instrument :
MSVOA_U
ClientSampleId :
BHAC5

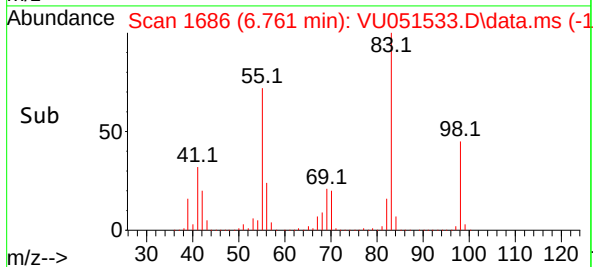
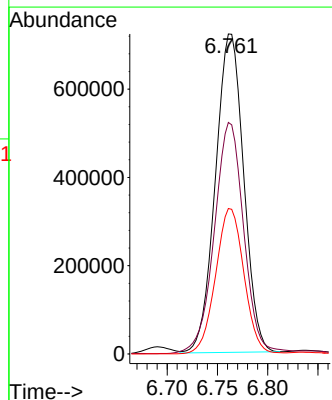
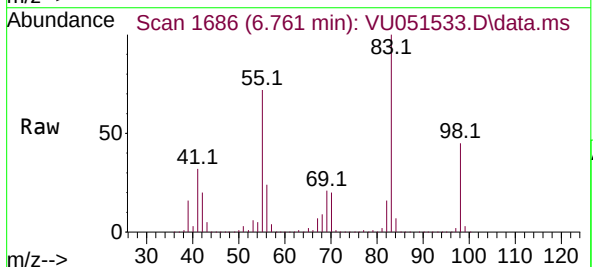
Tgt Ion: 78 Resp: 2716627

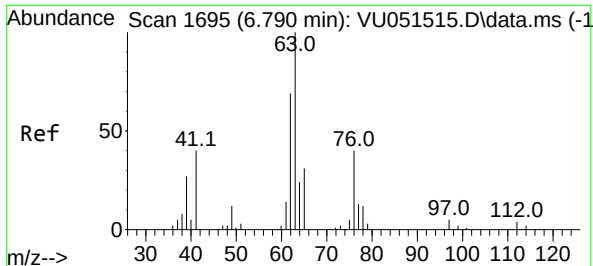


#35
Methylcyclohexane
Concen: 40.806 ug/L
RT: 6.761 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

Tgt Ion: 83 Resp: 1411548

Ion	Ratio	Lower	Upper
83	100		
55	76.0	65.8	98.6
98	45.8	35.9	53.9

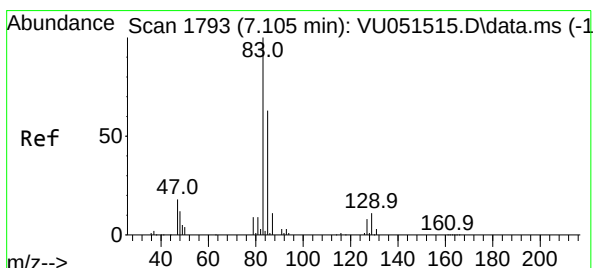
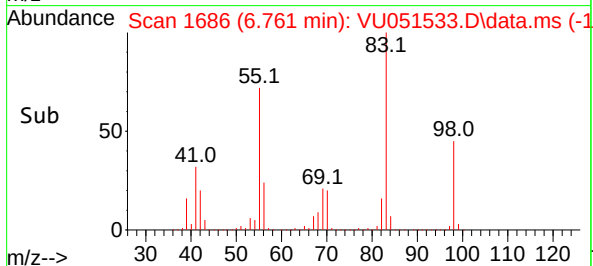
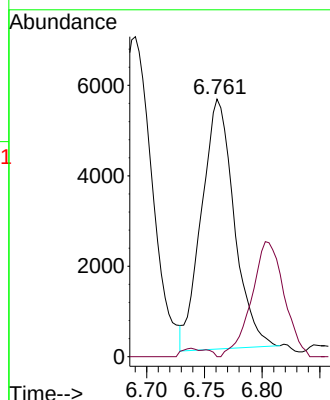
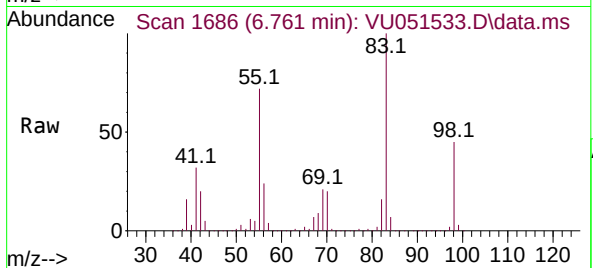




#37
1,2-Dichloropropane
Concen: 0.361 ug/L
RT: 6.761 min Scan# 11
Delta R.T. -0.029 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

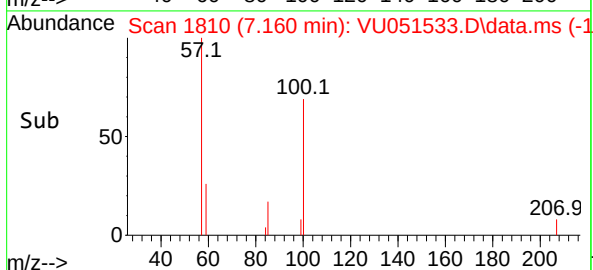
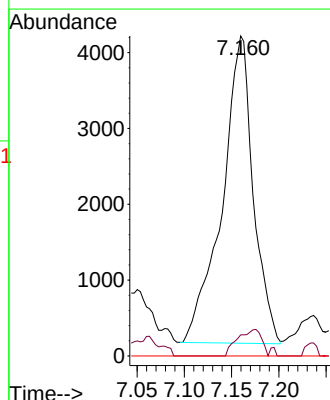
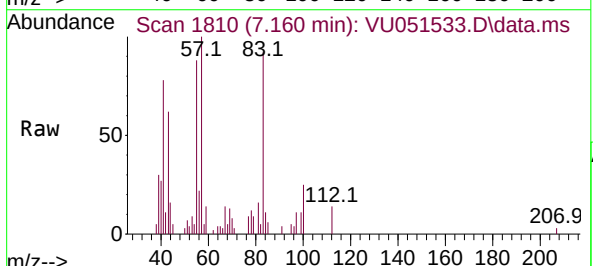
Instrument :
MSVOA_U
ClientSampleId :
BHAC5

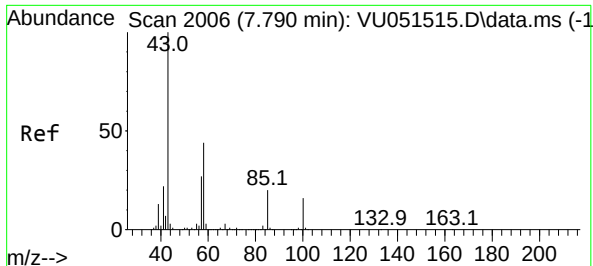
Tgt Ion: 63 Resp: 10864
Ion Ratio Lower Upper
63 100
112 2.6 3.2 4.8#



#38
Bromodichloromethane
Concen: 0.259 ug/L
RT: 7.160 min Scan# 1810
Delta R.T. 0.054 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

Tgt Ion: 83 Resp: 9294
Ion Ratio Lower Upper
83 100
85 6.6 44.8 83.2#
127 0.0 7.0 10.6#





#40

4-Methyl-2-pentanone

Concen: 3.877 ug/L

RT: 7.819 min Scan# 2006

Delta R.T. 0.029 min

Lab File: VU051533.D

Acq: 27 Oct 2022 04:39

Instrument :

MSVOA_U

ClientSampleId :

BHAC5

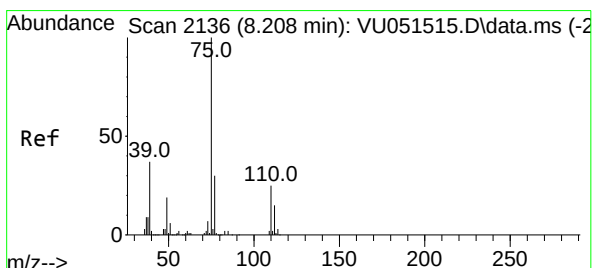
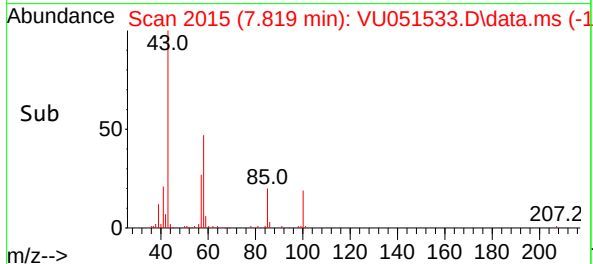
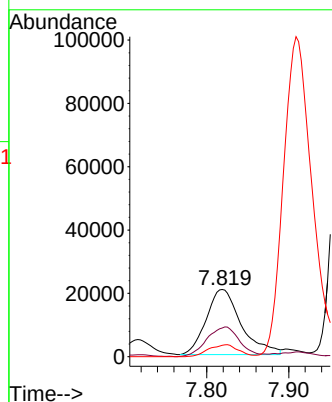
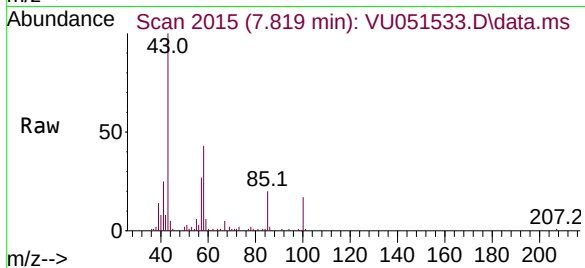
Tgt Ion: 43 Resp: 61269

Ion Ratio Lower Upper

43 100

58 43.3 33.0 49.6

100 15.6 11.8 17.6



#44

trans-1,3-Dichloropropene

Concen: 70.565 ug/L

RT: 8.018 min Scan# 2077

Delta R.T. -0.190 min

Lab File: VU051533.D

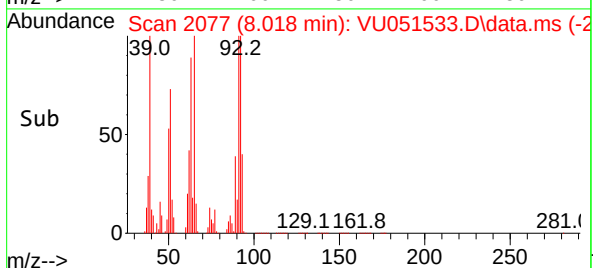
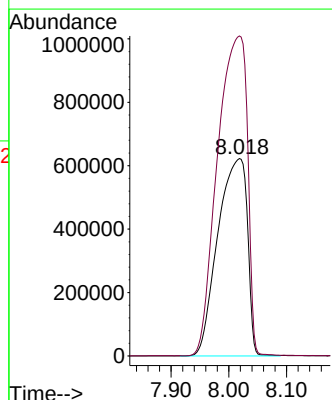
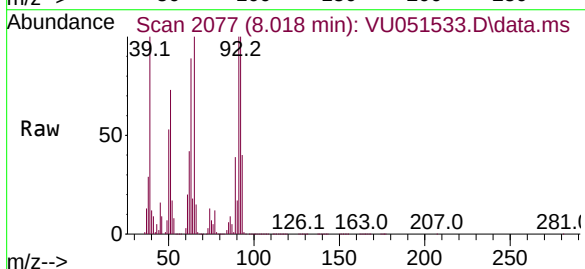
Acq: 27 Oct 2022 04:39

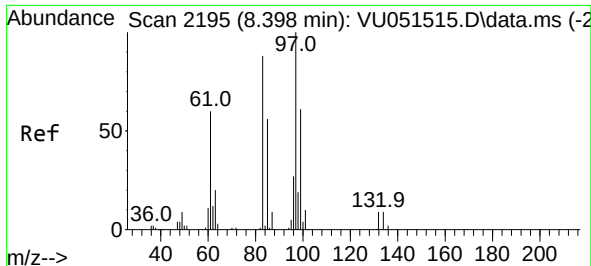
Tgt Ion: 75 Resp: 2209387

Ion Ratio Lower Upper

75 100

77 162.1 21.8 40.6#

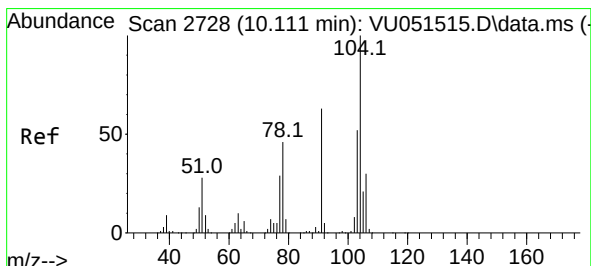
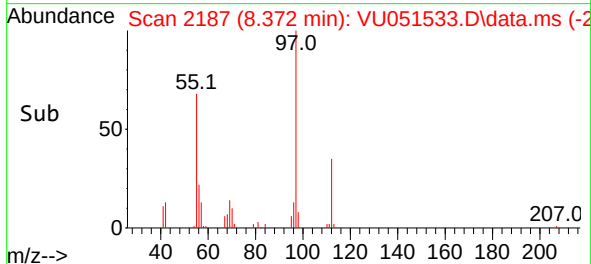
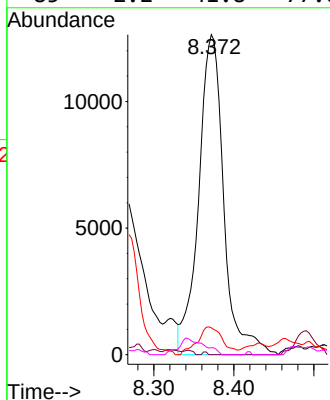
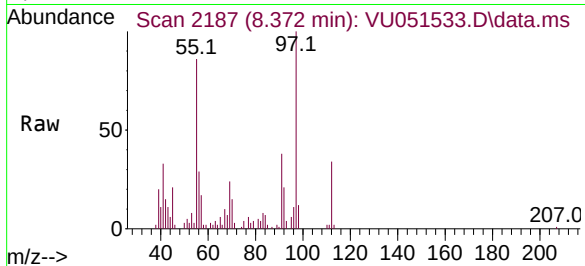




#45
1,1,2-Trichloroethane
Concen: 1.304 ug/L
RT: 8.372 min Scan# 2195
Delta R.T. -0.026 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

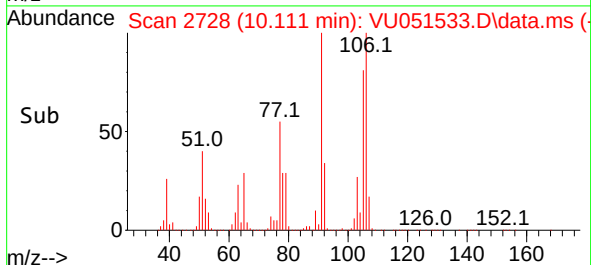
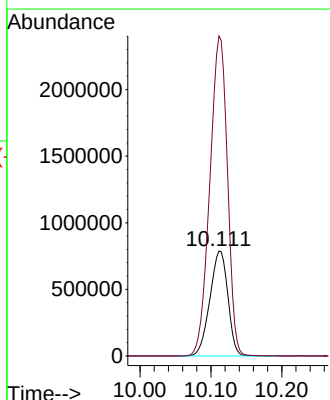
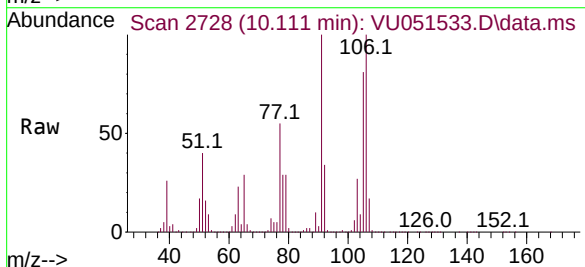
Instrument :
MSVOA_U
ClientSampleId :
BHAC5

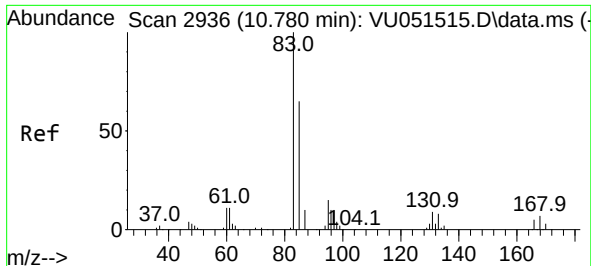
Tgt Ion: 97 Resp: 27589
Ion Ratio Lower Upper
97 100
99 0.0 45.3 84.1#
83 8.4 63.1 117.1#
85 2.2 41.8 77.6#



#55
Styrene
Concen: 20.919 ug/L
RT: 10.111 min Scan# 2728
Delta R.T. -0.000 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

Tgt Ion:104 Resp: 1385373
Ion Ratio Lower Upper
104 100
78 304.7 32.1 59.7#





#57

1,1,2,2-Tetrachloroethane

Concen: 0.167 ug/L

RT: 10.793 min Scan# 2936

Delta R.T. 0.013 min

Lab File: VU051533.D

Acq: 27 Oct 2022 04:39

Instrument :

MSVOA_U

ClientSampleId :

BHAC5

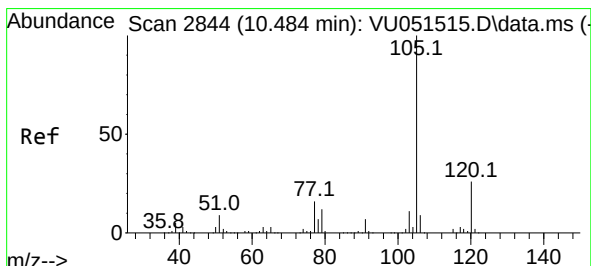
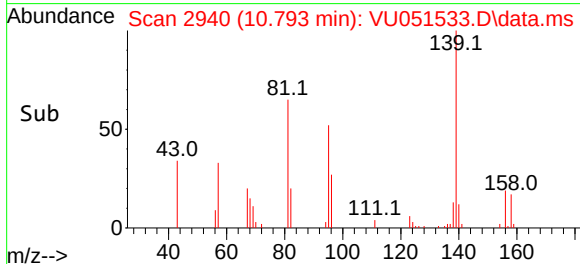
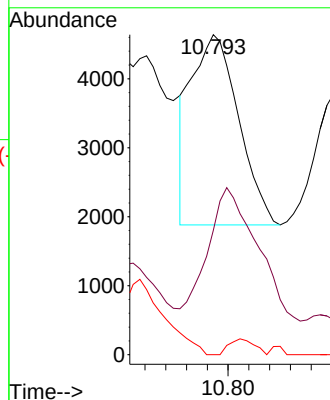
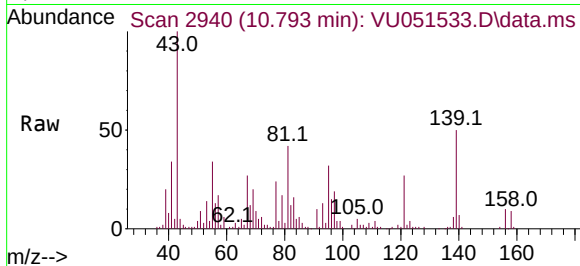
Tgt Ion: 83 Resp: 4370

Ion Ratio Lower Upper

83 100

85 38.8 45.9 85.3#

131 0.0 7.4 11.2#



#60

Isopropylbenzene

Concen: 107.052 ug/L

RT: 10.484 min Scan# 2844

Delta R.T. -0.000 min

Lab File: VU051533.D

Acq: 27 Oct 2022 04:39

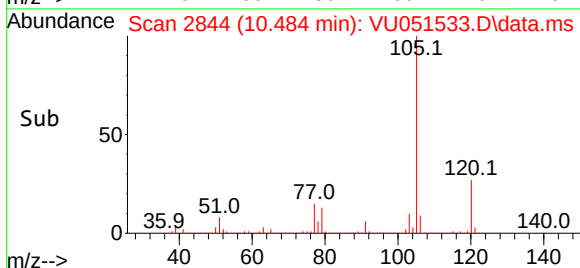
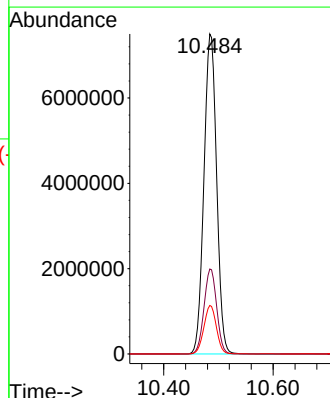
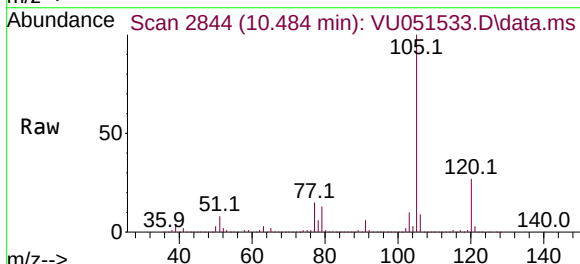
Tgt Ion:105 Resp:12046356

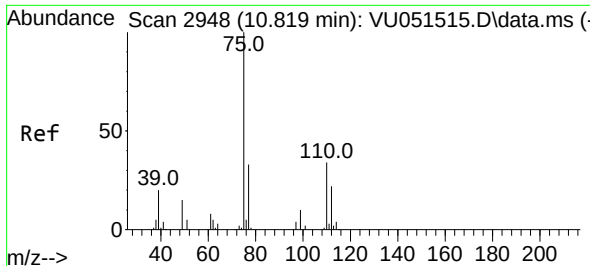
Ion Ratio Lower Upper

105 100

120 26.5 20.6 30.8

77 15.0 13.5 20.3

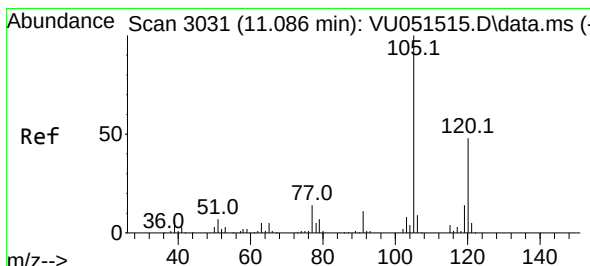
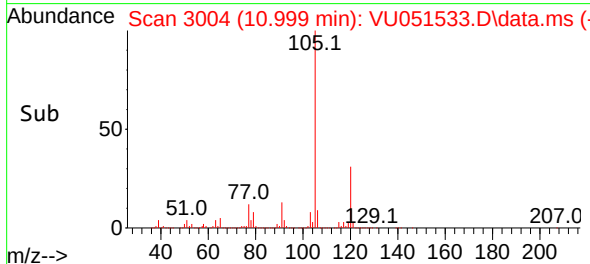
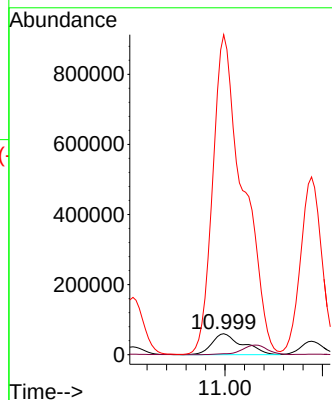
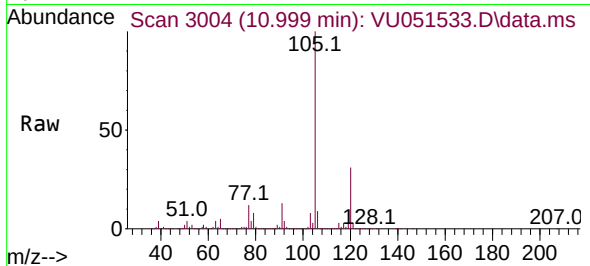




#61
1,2,3-Trichloropropane
Concen: 5.851 ug/L
RT: 10.999 min Scan# 3004
Delta R.T. 0.180 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

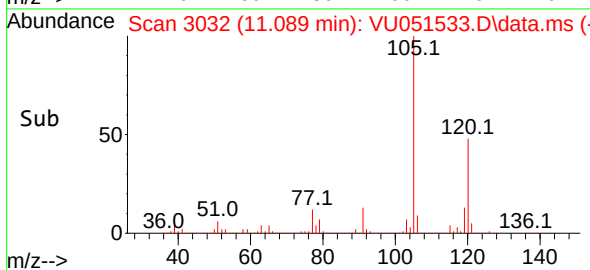
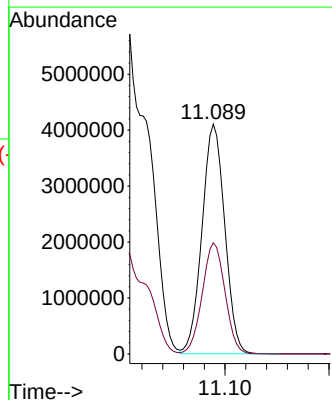
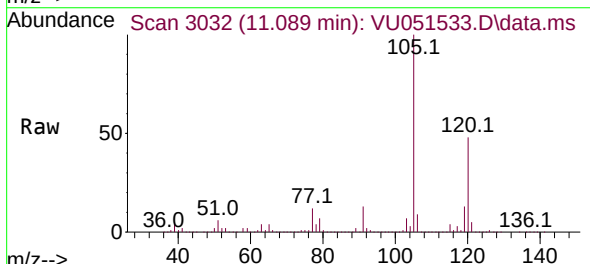
Instrument :
MSVOA_U
ClientSampleId :
BHAC5

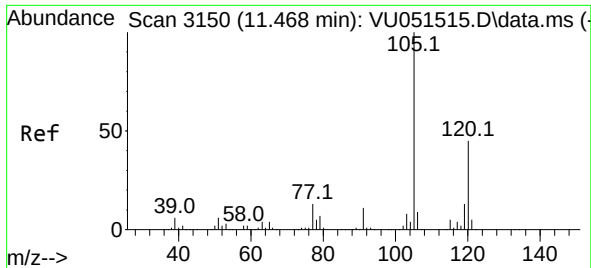
Tgt Ion: 75 Resp: 131252
Ion Ratio Lower Upper
75 100
110 38.4 27.0 40.6
77 1510.4 26.4 39.6#



#62
1,3,5-Trimethylbenzene
Concen: 208.928 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. 0.003 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

Tgt Ion: 105 Resp: 6236715
Ion Ratio Lower Upper
105 100
120 48.3 37.7 56.5

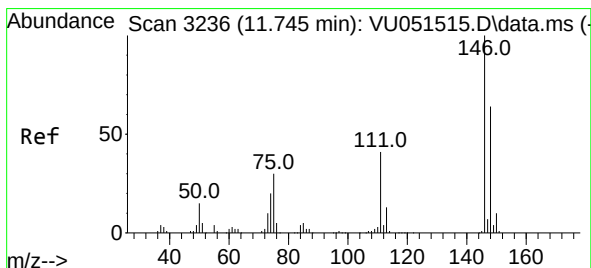
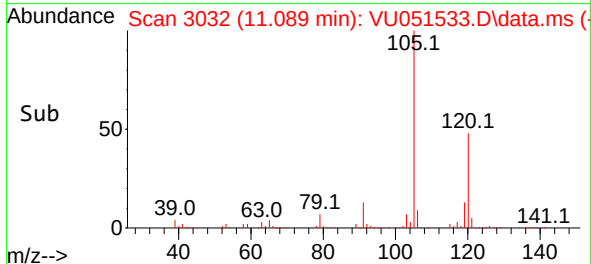
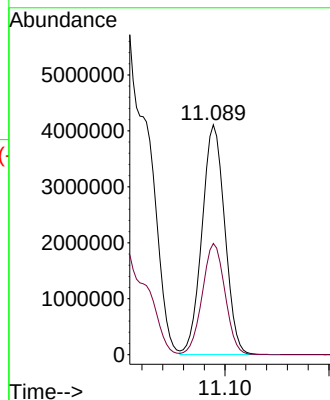
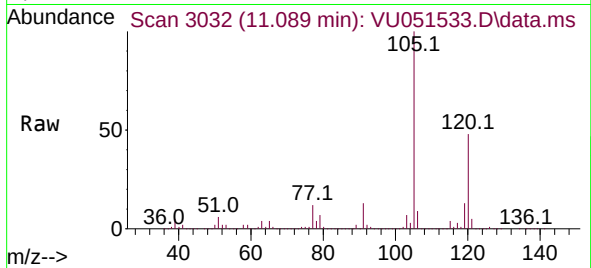




#63
1,2,4-Trimethylbenzene
Concen: 73.877 ug/L
RT: 11.089 min Scan# 3032
Delta R.T. -0.380 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

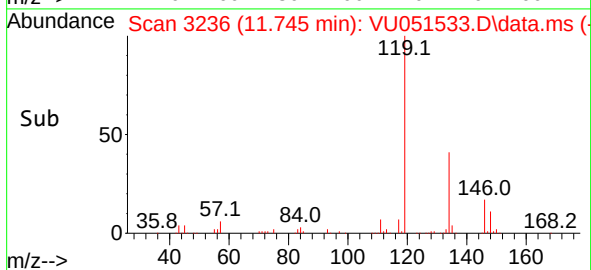
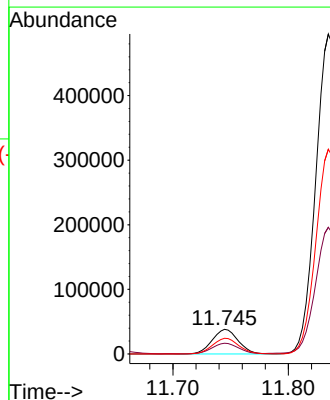
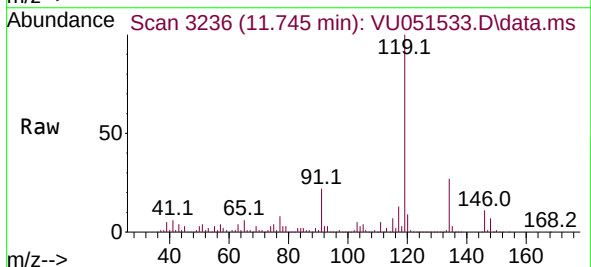
Instrument :
MSVOA_U
ClientSampleId :
BHAC5

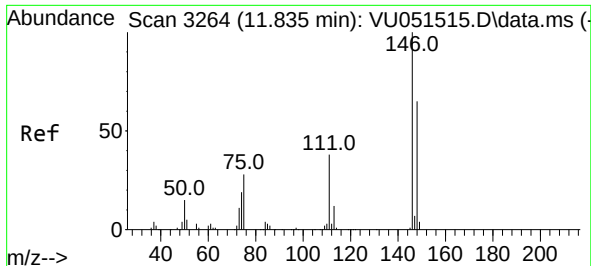
Tgt Ion:105 Resp: 6236715
Ion Ratio Lower Upper
105 100
120 48.3 35.6 53.4



#64
1,3-Dichlorobenzene
Concen: 1.075 ug/L
RT: 11.745 min Scan# 3236
Delta R.T. -0.000 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

Tgt Ion:146 Resp: 59840
Ion Ratio Lower Upper
146 100
111 43.6 28.3 52.7
148 63.6 43.8 81.4

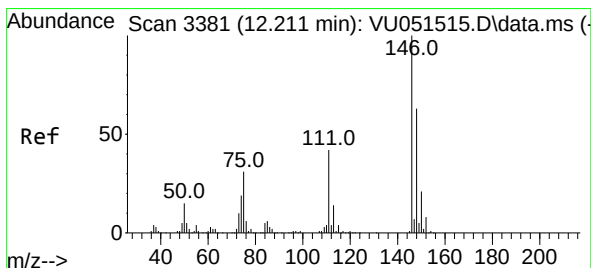
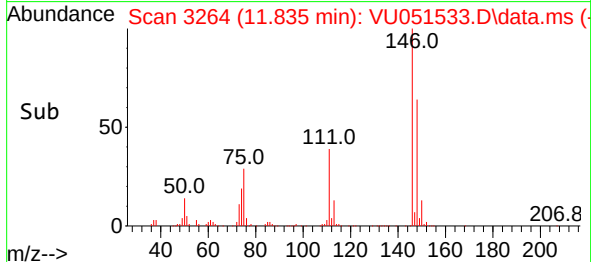
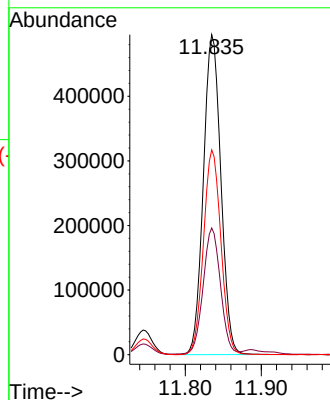
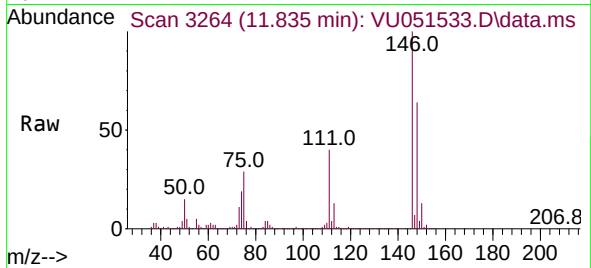




#65
1,4-Dichlorobenzene
Concen: 14.414 ug/L
RT: 11.835 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

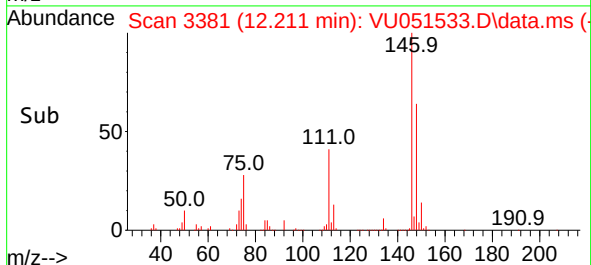
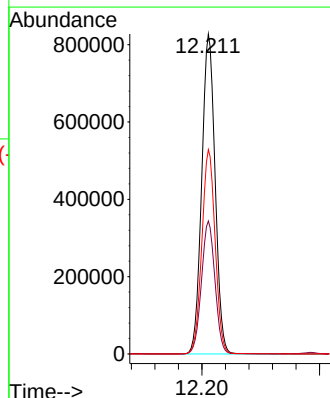
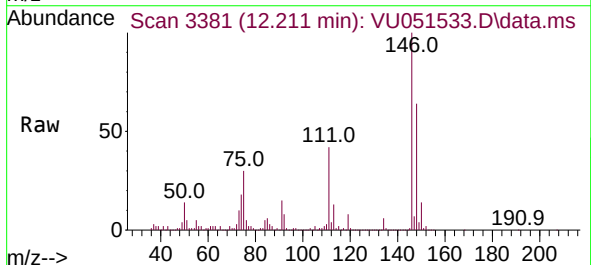
Instrument :
MSVOA_U
ClientSampleId :
BHAC5

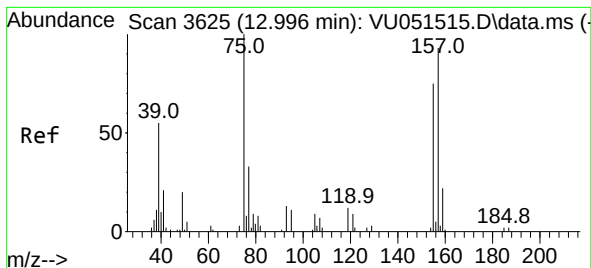
Tgt Ion:146 Resp: 790813
Ion Ratio Lower Upper
146 100
111 39.6 29.1 54.1
148 64.0 44.2 82.0



#67
1,2-Dichlorobenzene
Concen: 24.109 ug/L
RT: 12.211 min Scan# 3381
Delta R.T. -0.000 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

Tgt Ion:146 Resp: 1304576
Ion Ratio Lower Upper
146 100
111 41.5 35.5 53.3
148 63.8 50.9 76.3

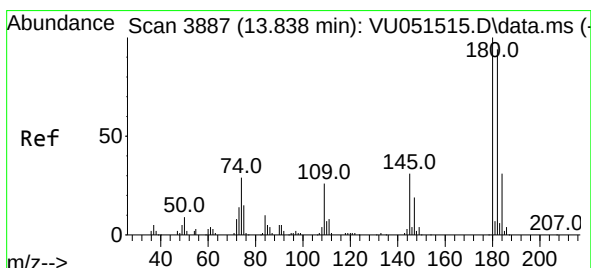
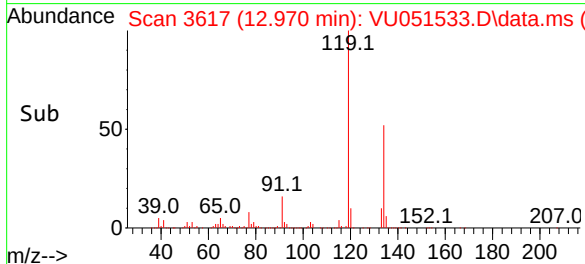
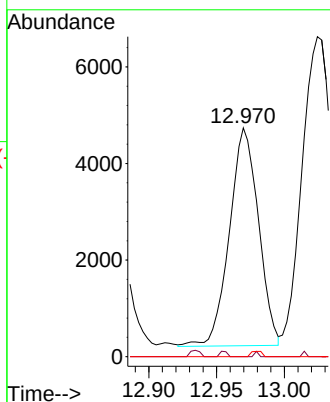
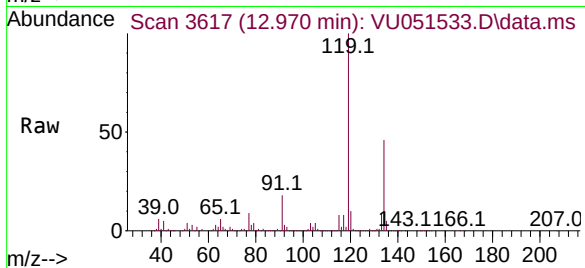




#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.566 ug/L
 RT: 12.970 min Scan# 3617
 Delta R.T. -0.026 min
 Lab File: VU051533.D
 Acq: 27 Oct 2022 04:39

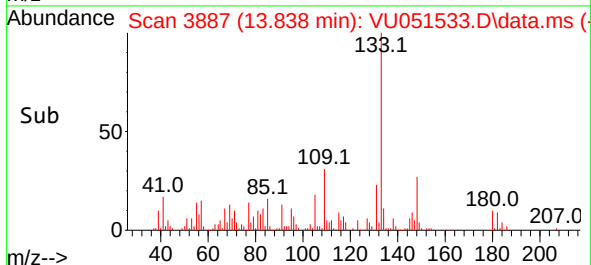
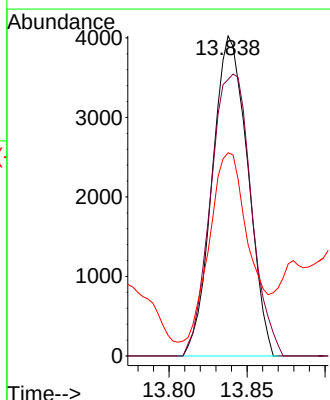
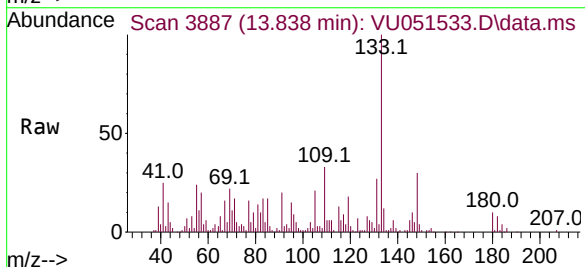
Instrument :
 MSVOA_U
 ClientSampleId :
 BHAC5

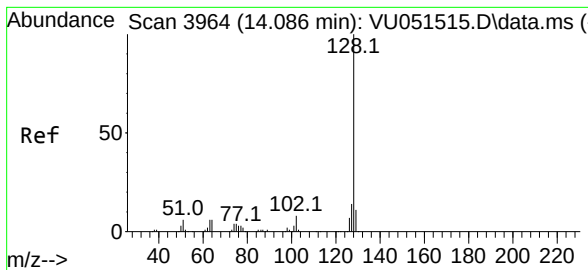
Tgt Ion: 75 Resp: 6718
 Ion Ratio Lower Upper
 75 100
 155 0.0 62.7 94.1#
 157 0.0 78.3 117.5#



#70
 1,2,4-trichlorobenzene
 Concen: 0.234 ug/L
 RT: 13.838 min Scan# 3887
 Delta R.T. -0.000 min
 Lab File: VU051533.D
 Acq: 27 Oct 2022 04:39

Tgt Ion:180 Resp: 6370
 Ion Ratio Lower Upper
 180 100
 182 100.4 78.7 118.1
 145 65.0 25.0 37.4#





#71
Naphthalene
Concen: 34.777 ug/L
RT: 14.082 min Scan# 3963
Delta R.T. -0.003 min
Lab File: VU051533.D
Acq: 27 Oct 2022 04:39

Instrument :
MSVOA_U
ClientSampleId :
BHAC5

Tgt Ion:128 Resp: 1762725

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.5	12.7
127	12.6	11.1	16.7

