

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\U041423\
 Data File : VU053695.D
 Acq On : 13 Apr 2023 20:35
 Operator : JC/MD
 Sample : 02340-04
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 BHE05

Quant Time: Apr 14 02:26:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR032423WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Apr 14 02:17:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	137217	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	130916	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	68168	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.594	65	53581	5.676	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	113.600%
7) Chloroethane-d5	1.906	69	42879	5.005	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.000%
11) 1,1-Dichloroethene-d2	2.559	65	19144	4.761	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	95.200%
20) 2-Butanone-d5	4.620	46	86062	39.797	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	79.600%
24) Chloroform-d	5.057	84	82453	4.712	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.200%
26) 1,2-Dichloroethane-d4	5.697	65	39229	4.374	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.400%
32) Benzene-d6	5.723	84	161583	4.355	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.200%
36) 1,2-Dichloropropane-d6	6.687	67	46897	4.148	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.000%
41) Toluene-d8	7.896	98	148925	4.255	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.000%
43) trans-1,3-Dichloroprop...	8.176	79	18105	4.173	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.400%
46) 2-Hexanone-d5	8.629	63	77392	43.919	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.840%
56) 1,1,2,2-Tetrachloroeth...	10.754	84	38308	4.071	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.400%
66) 1,2-Dichlorobenzene-d4	12.192	152	55529	4.528	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.600%
Target Compounds						
					Qvalue	
9) Trichlorofluoromethane	2.134	101	112853	6.690	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.575	101	119685	14.000	ug/L	97
12) 1,1-Dichloroethene	2.575	96	306656	39.472	ug/L #	67
15) Methyl Acetate	3.028	43	486	0.161	ug/L #	49
16) Methylene chloride	3.038	84	12788	1.253	ug/L	95
17) Methyl tert-butyl Ether	3.359	73	15301	0.812	ug/L	95
18) trans-1,2-Dichloroethene	3.350	96	4696	0.582	ug/L	88
19) 1,1-Dichloroethane	3.861	63	293283	19.729	ug/L	97
22) cis-1,2-Dichloroethene	4.658	96	1367266	125.756	ug/L	94
25) Chloroform	5.079	83	88887	5.813	ug/L	98
27) 1,2-Dichloroethane	5.793	62	8878	0.927	ug/L #	89
29) 1,1,1-Trichloroethane	5.311	97	91431	7.074	ug/L	96
31) Carbon tetrachloride	5.523	117	10479	0.958	ug/L	99
33) Benzene	5.771	78	101135	2.883	ug/L	100
34) Trichloroethene	6.542	95	8175855	875.243	ug/L	95
35) Methylcyclohexane	6.684	83	10891	0.679	ug/L #	30
37) 1,2-Dichloropropane	6.687	63	5218	0.563	ug/L #	52
45) 1,1,2-Trichloroethane	8.398	97	6660	1.013	ug/L	89
47) Tetrachloroethene	8.558	164	9764301	1422.650	ug/L	98

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

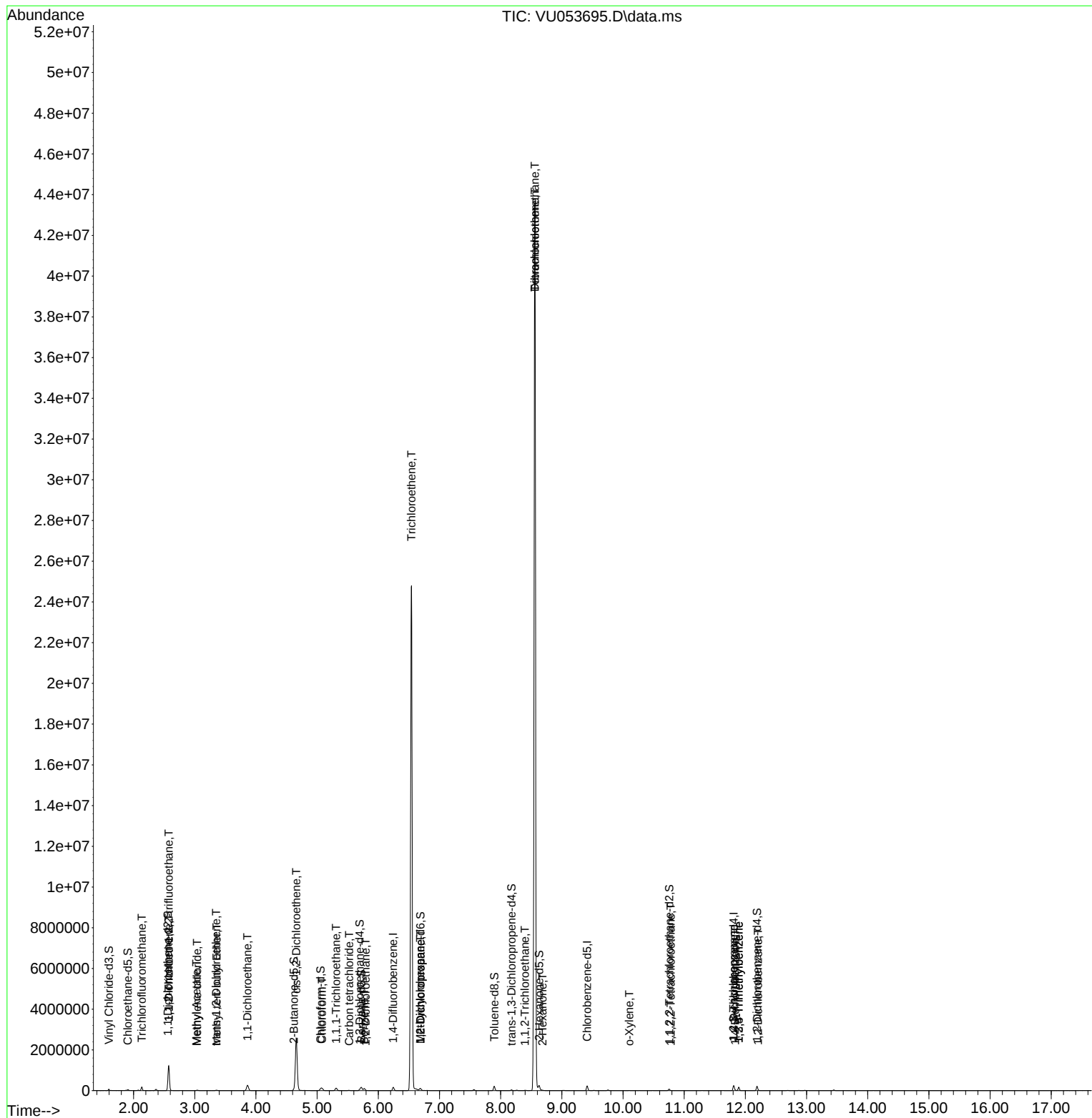
48) 2-Hexanone	8.684	43	2240	0.668	ug/L #	54
49) Dibromochloromethane	8.558	129	9878865	1519.085	ug/L #	12
54) o-Xylene	10.102	106	2009	0.133	ug/L	97
57) 1,1,2,2-Tetrachloroethane	10.780	83	1499	0.181	ug/L #	82
61) 1,2,3-Trichloropropane	11.806	75	11220	1.987	ug/L #	62
62) 1,3,5-Trimethylbenzene	11.893	105	97656	2.907	ug/L	95
63) 1,2,4-Trimethylbenzene	11.893	105	97656	2.838	ug/L	99
65) 1,4-Dichlorobenzene	11.832	146	10419	0.570	ug/L	97
67) 1,2-Dichlorobenzene	12.208	146	4768	0.276	ug/L	96

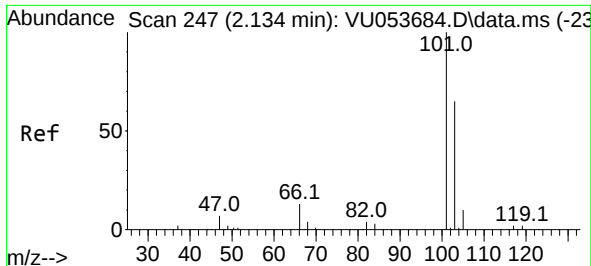
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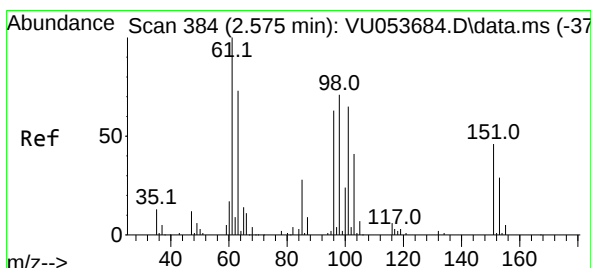
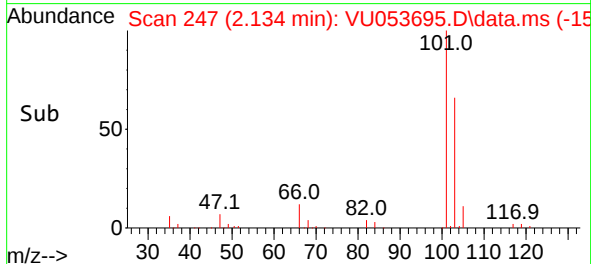
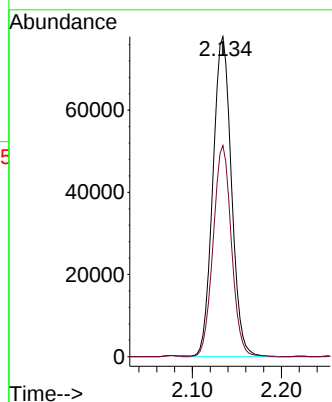
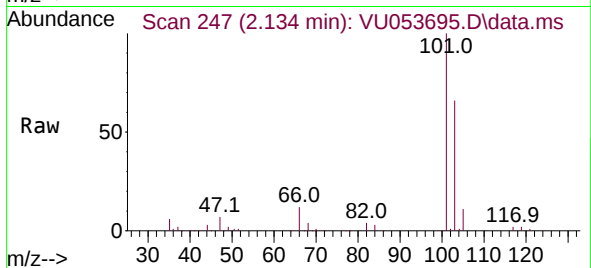




#9
 Trichlorofluoromethane
 Concen: 6.690 ug/L
 RT: 2.134 min Scan# 247
 Delta R.T. -0.000 min
 Lab File: VU053695.D
 Acq: 13 Apr 2023 20:35

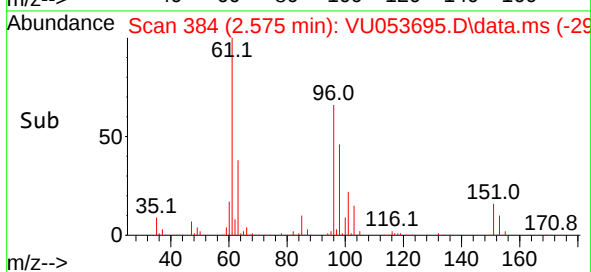
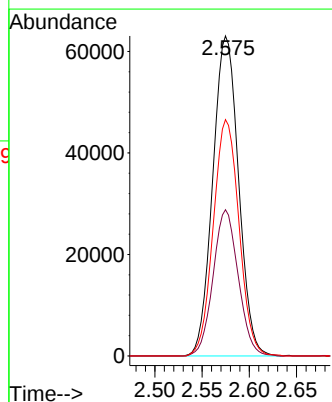
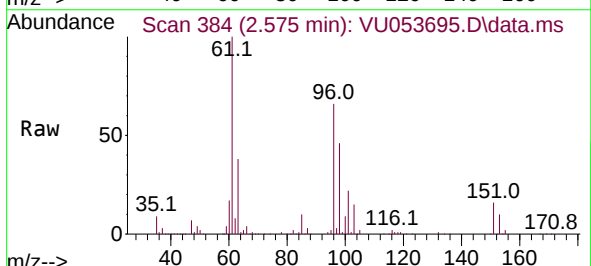
Instrument :
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 ClientSampleId :
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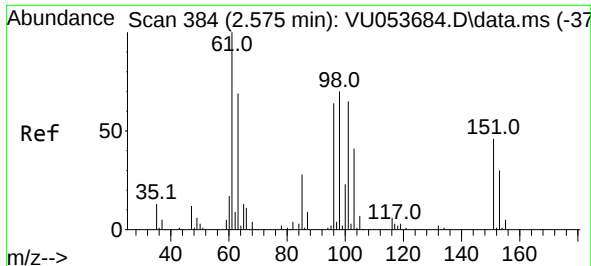
Tgt Ion:101 Resp: 112853
 Ion Ratio Lower Upper
 101 100
 103 64.9 50.2 75.2



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 14.000 ug/L
 RT: 2.575 min Scan# 384
 Delta R.T. -0.000 min
 Lab File: VU053695.D
 Acq: 13 Apr 2023 20:35

Tgt Ion:101 Resp: 119685
 Ion Ratio Lower Upper
 101 100
 85 44.5 37.0 55.4
 151 73.6 56.8 85.2





#12

1,1-Dichloroethene

Concen: 39.472 ug/L

RT: 2.575 min Scan# 3

Delta R.T. -0.000 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

Instrument :

MSVOA_U

ClientSampleId :

BHE05

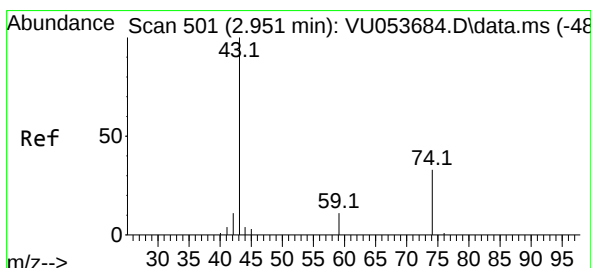
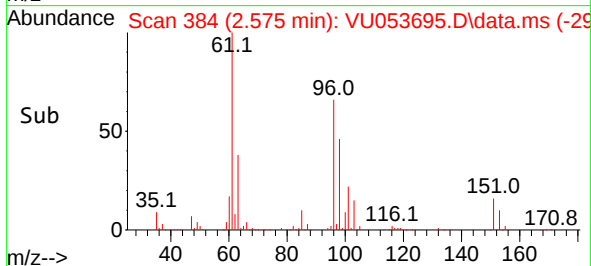
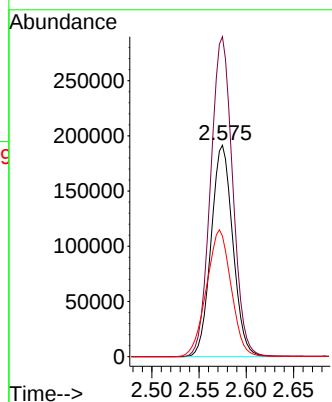
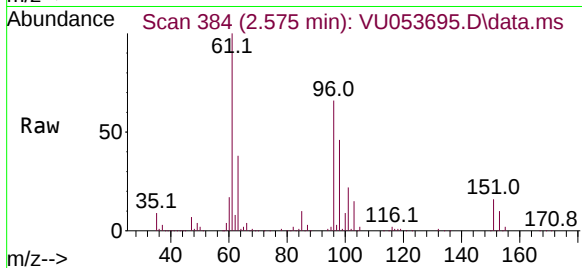
Tgt Ion: 96 Resp: 306656

Ion Ratio Lower Upper

96 100

61 151.3 116.8 216.8

63 57.0 88.6 164.6#



#15

Methyl Acetate

Concen: 0.161 ug/L

RT: 3.028 min Scan# 525

Delta R.T. 0.077 min

Lab File: VU053695.D

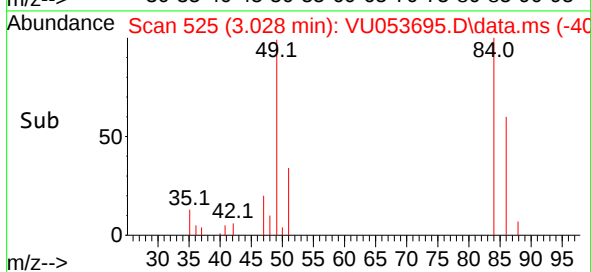
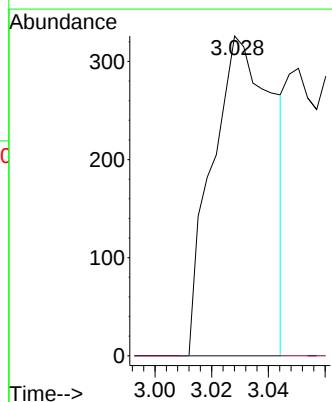
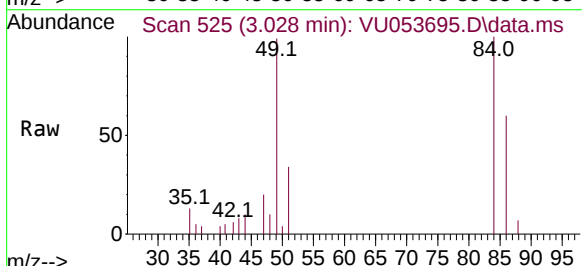
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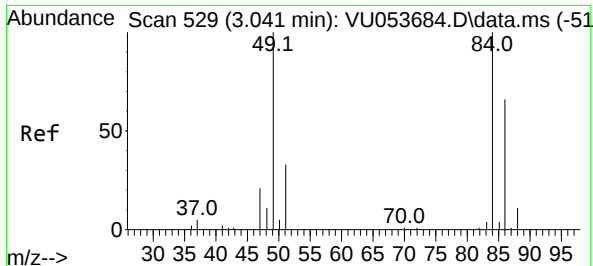
Tgt Ion: 43 Resp: 486

Ion Ratio Lower Upper

43 100

74 0.0 20.8 31.2#

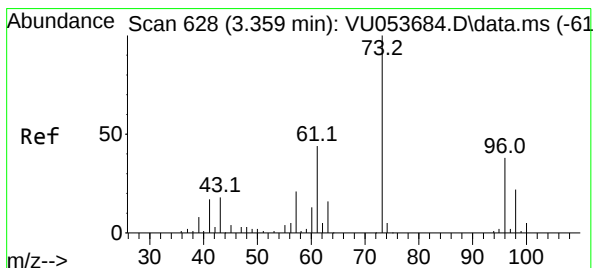
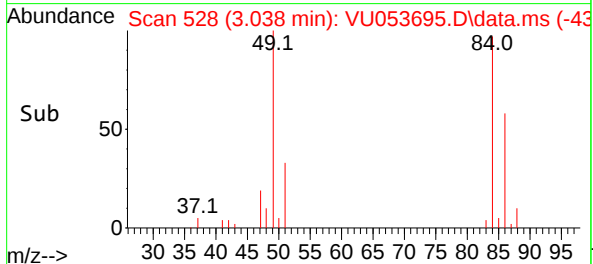
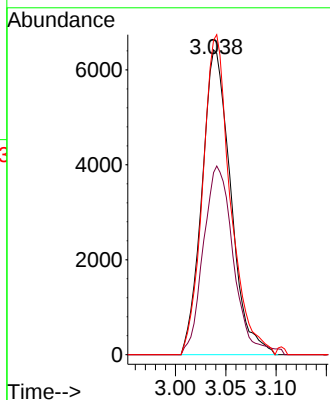
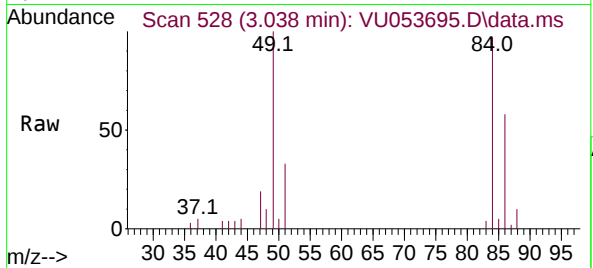




#16
Methylene chloride
Concen: 1.253 ug/L
RT: 3.038 min Scan# 51
Delta R.T. -0.003 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

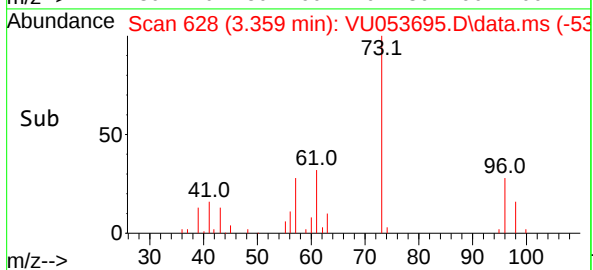
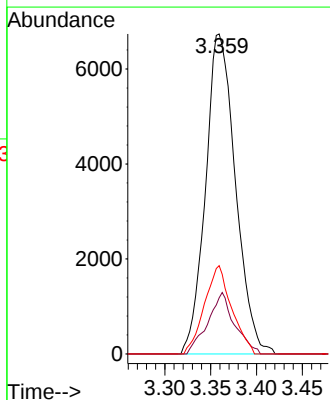
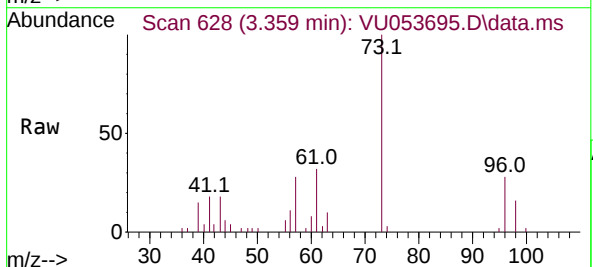
Instrument :
MSVOA_U
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BHE05

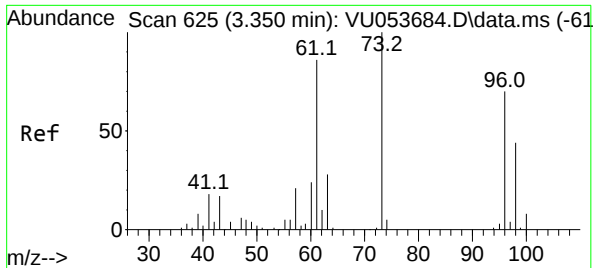
Tgt Ion: 84 Resp: 12788
Ion Ratio Lower Upper
84 100
86 59.7 44.7 83.1
49 103.2 75.5 140.1



#17
Methyl tert-butyl Ether
Concen: 0.812 ug/L
RT: 3.359 min Scan# 628
Delta R.T. -0.000 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

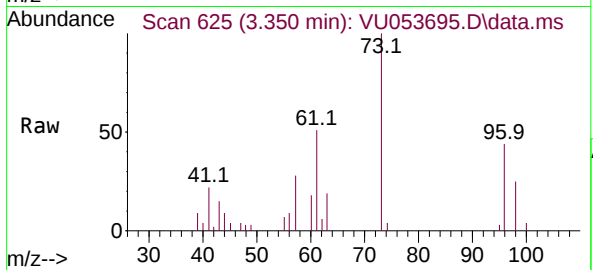
Tgt Ion: 73 Resp: 15301
Ion Ratio Lower Upper
73 100
43 17.1 13.9 20.9
57 25.1 17.0 25.6



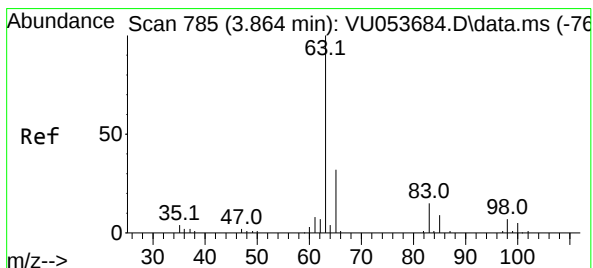
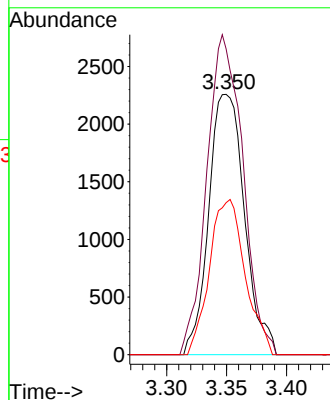
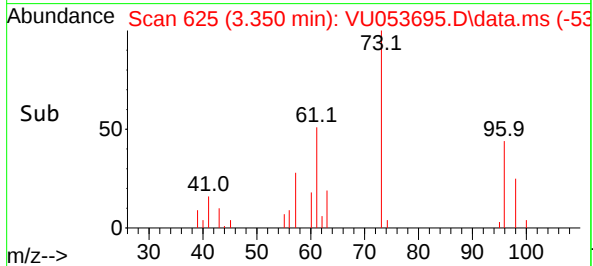


#18
trans-1,2-Dichloroethene
Concen: 0.582 ug/L
RT: 3.350 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

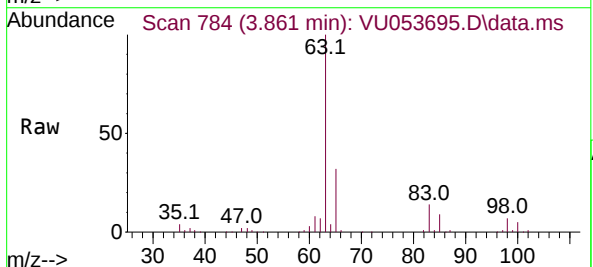
Instrument :
MSVOA_U
ClientSampleId :
BHE05



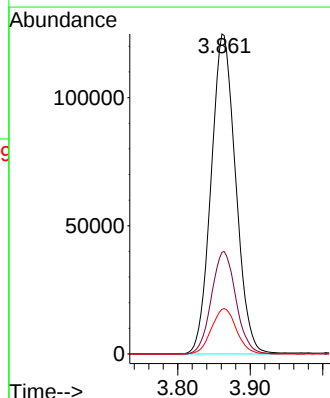
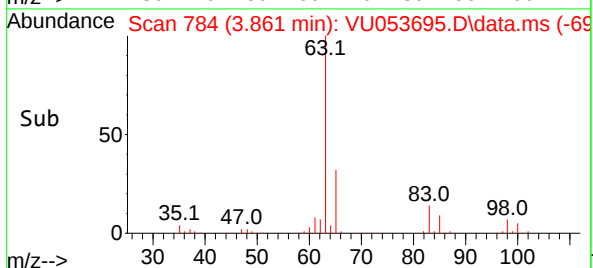
Tgt Ion: 96 Resp: 4696
Ion Ratio Lower Upper
96 100
61 117.4 95.5 177.3
98 58.4 42.2 78.4

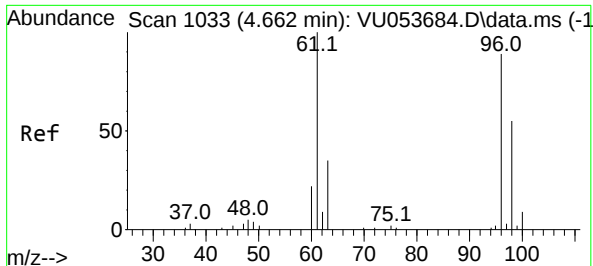


#19
1,1-Dichloroethane
Concen: 19.729 ug/L
RT: 3.861 min Scan# 784
Delta R.T. -0.003 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35



Tgt Ion: 63 Resp: 293283
Ion Ratio Lower Upper
63 100
65 31.8 21.7 40.3
83 14.0 8.1 15.1





#22

cis-1,2-Dichloroethene

Concen: 125.756 ug/L

RT: 4.658 min Scan# 1032

Delta R.T. -0.003 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

Instrument :

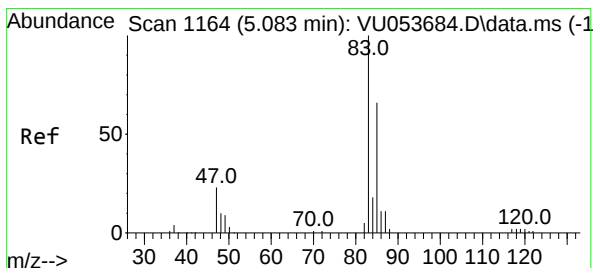
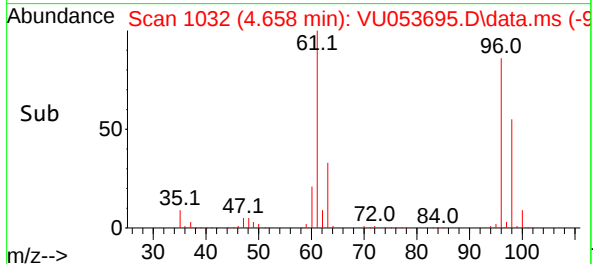
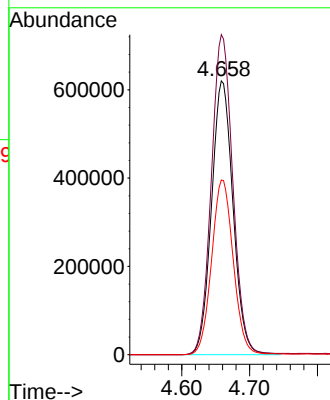
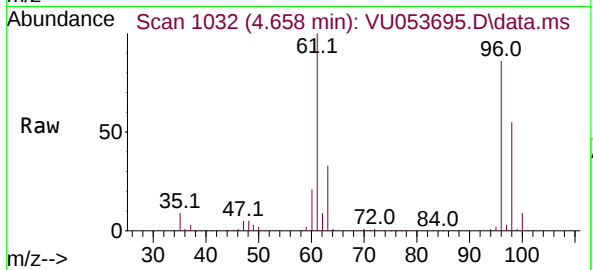
MSVOA_U

ClientSampleId :

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Tgt Ion: 96 Resp: 1367266

Ion	Ratio	Lower	Upper
96	100		
61	116.9	86.6	160.8
98	63.8	47.7	88.5



#25

Chloroform

Concen: 5.813 ug/L

RT: 5.079 min Scan# 1163

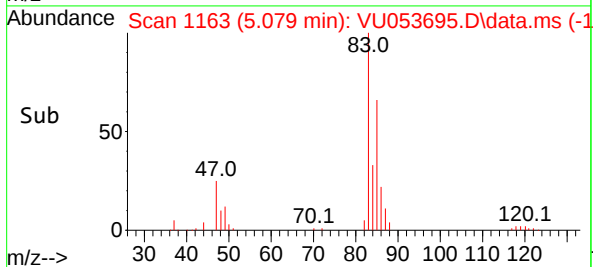
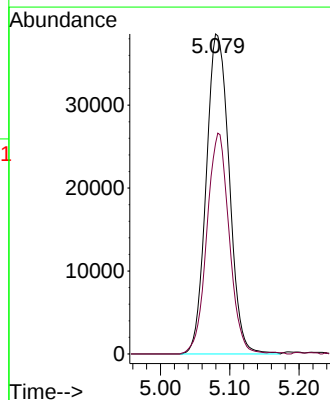
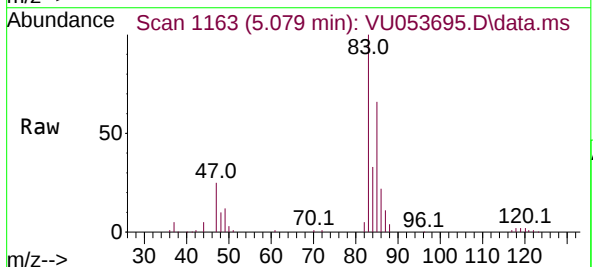
Delta R.T. -0.003 min

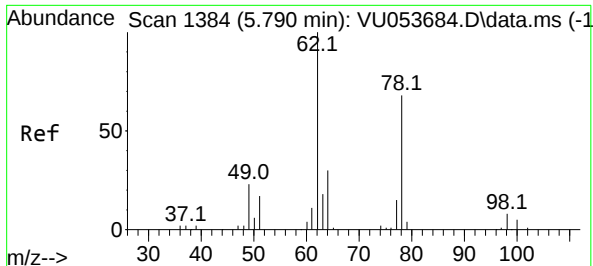
Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

Tgt Ion: 83 Resp: 88887

Ion	Ratio	Lower	Upper
83	100		
85	65.8	47.3	87.9

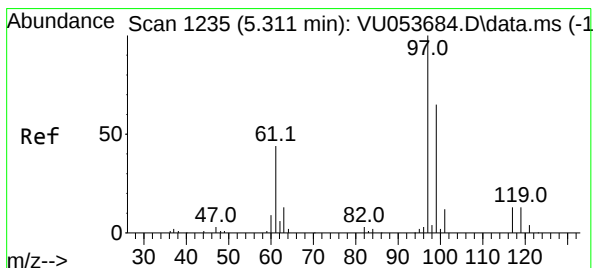
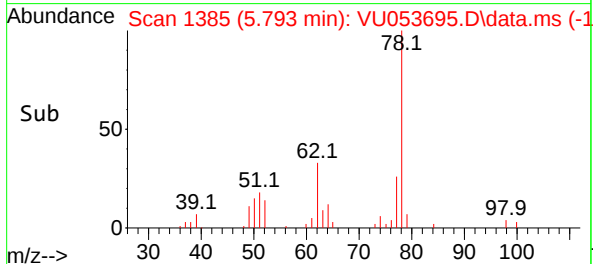
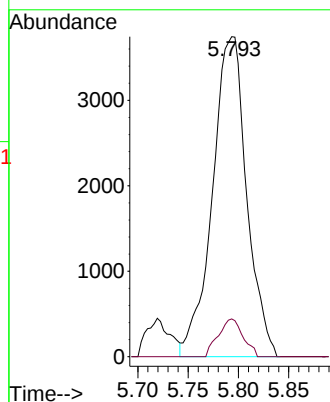
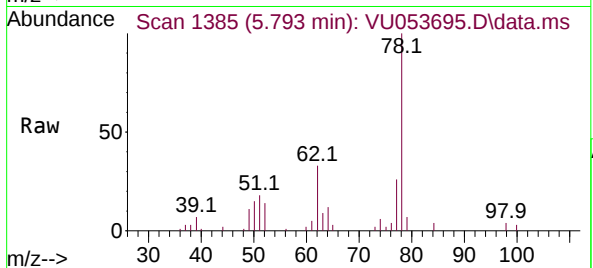




#27
1,2-Dichloroethane
Concen: 0.927 ug/L
RT: 5.793 min Scan# 11
Delta R.T. 0.003 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

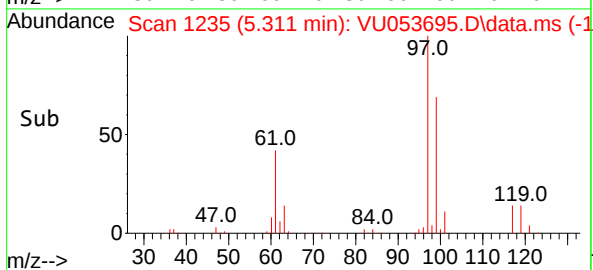
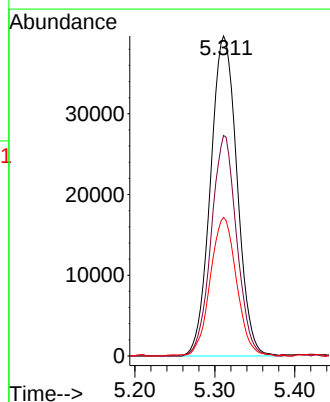
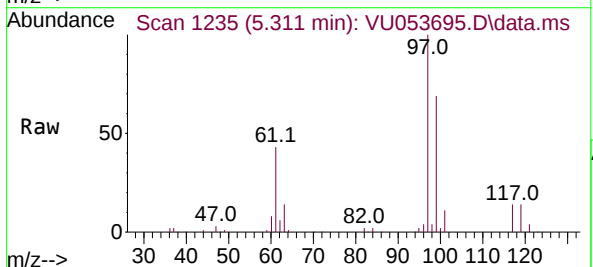
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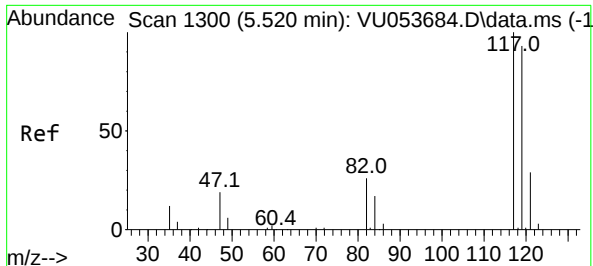
Tgt Ion: 62 Resp: 8878
Ion Ratio Lower Upper
62 100
98 11.8 6.4 9.6#



#29
1,1,1-Trichloroethane
Concen: 7.074 ug/L
RT: 5.311 min Scan# 1235
Delta R.T. -0.000 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

Tgt Ion: 97 Resp: 91431
Ion Ratio Lower Upper
97 100
99 66.1 49.9 74.9
61 43.0 35.7 53.5

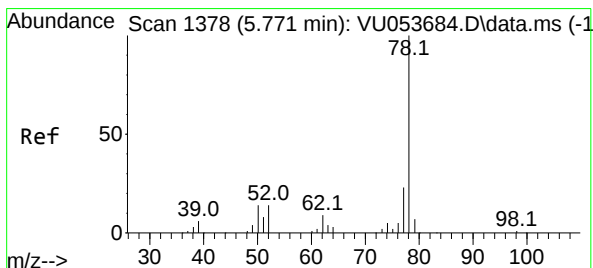
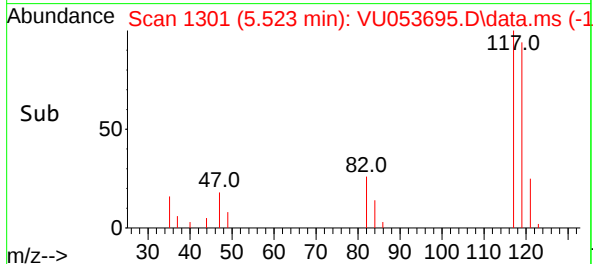
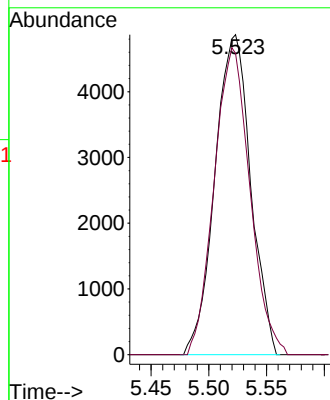
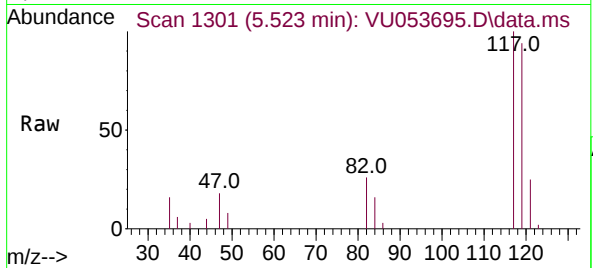




#31
Carbon tetrachloride
Concen: 0.958 ug/L
RT: 5.523 min Scan# 117
Delta R.T. 0.003 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

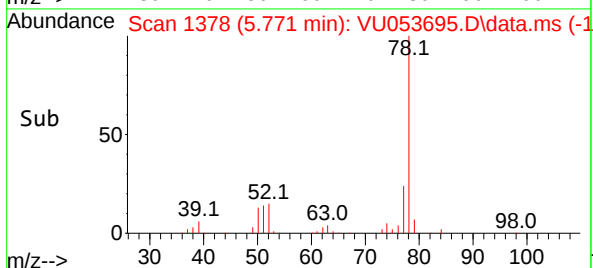
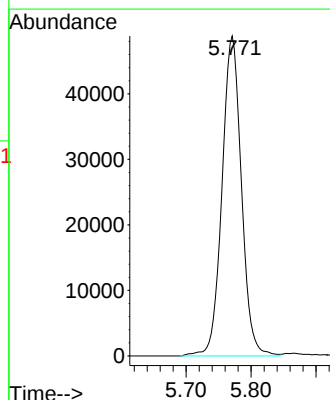
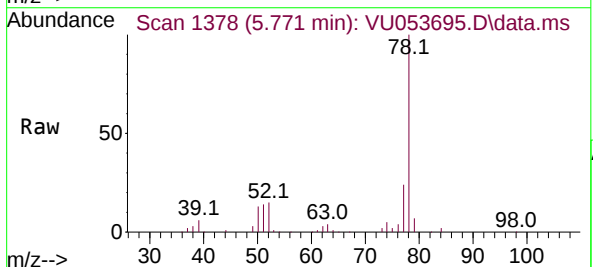
Instrument :
MSVOA_U
ClientSampleId :
BHE05

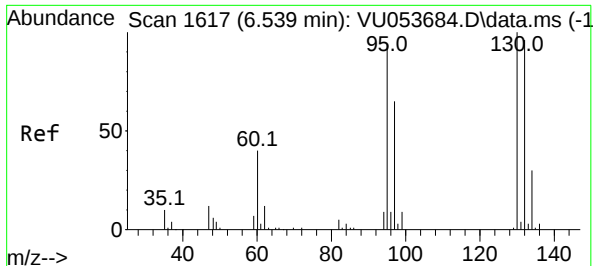
Tgt Ion:117 Resp: 10479
Ion Ratio Lower Upper
117 100
119 95.7 77.7 116.5



#33
Benzene
Concen: 2.883 ug/L
RT: 5.771 min Scan# 1378
Delta R.T. -0.000 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

Tgt Ion: 78 Resp: 101135

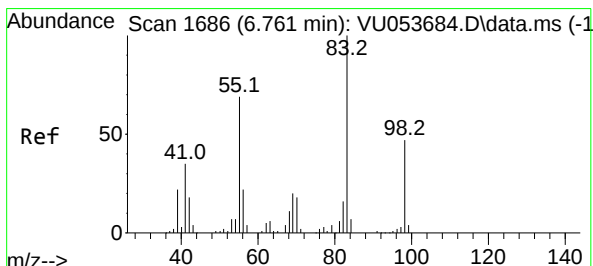
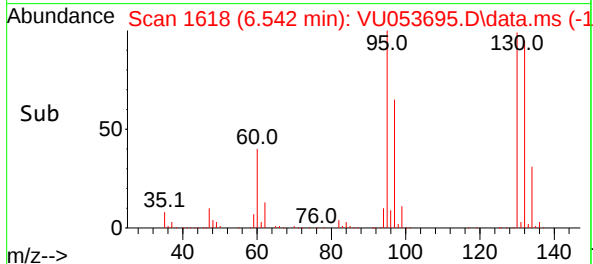
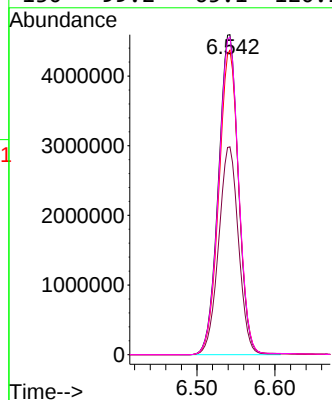
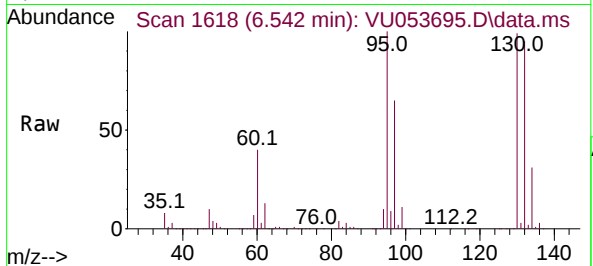




#34
Trichloroethene
Concen: 875.243 ug/L
RT: 6.542 min Scan# 1617
Delta R.T. 0.003 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

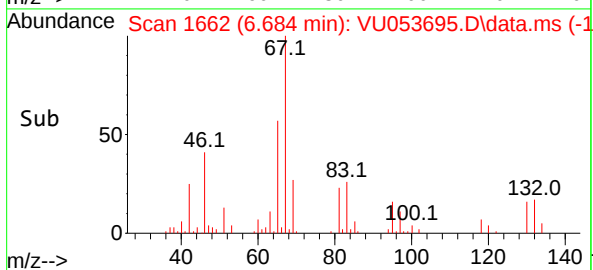
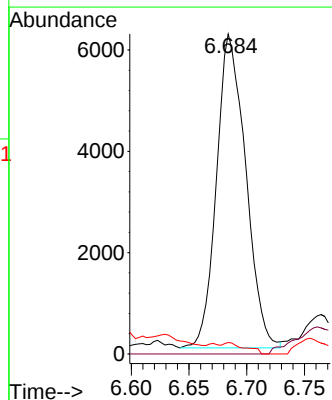
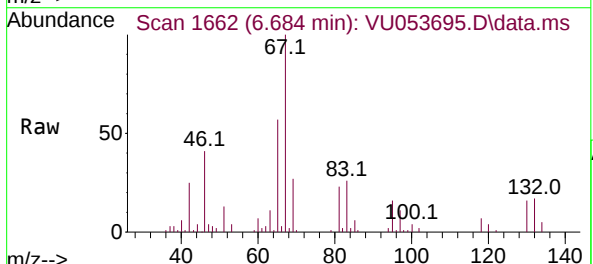
Instrument :
MSVOA_U
ClientSampleId :
BHE05

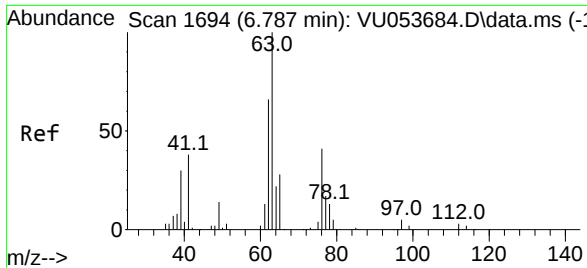
Tgt Ion: 95 Resp: 8175855
Ion Ratio Lower Upper
95 100
97 65.0 45.3 84.1
132 95.1 62.8 116.6
130 99.2 65.1 120.9



#35
Methylcyclohexane
Concen: 0.679 ug/L
RT: 6.684 min Scan# 1662
Delta R.T. -0.077 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

Tgt Ion: 83 Resp: 10891
Ion Ratio Lower Upper
83 100
55 10.9 54.9 82.3#
98 0.0 34.9 52.3#

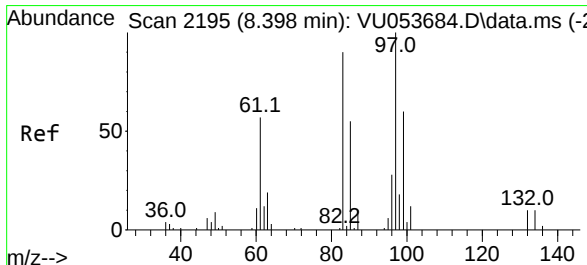
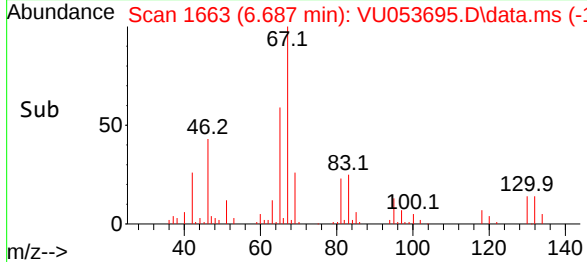
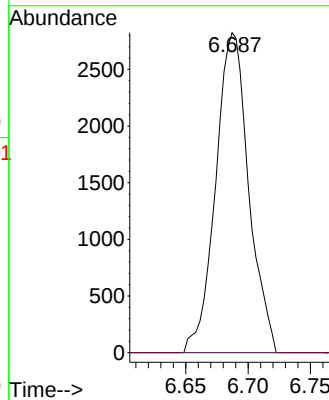
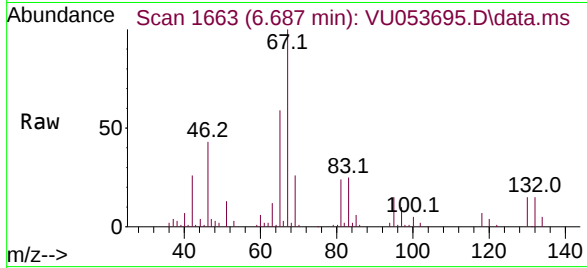




#37
1,2-Dichloropropane
Concen: 0.563 ug/L
RT: 6.687 min Scan# 11
Delta R.T. -0.100 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

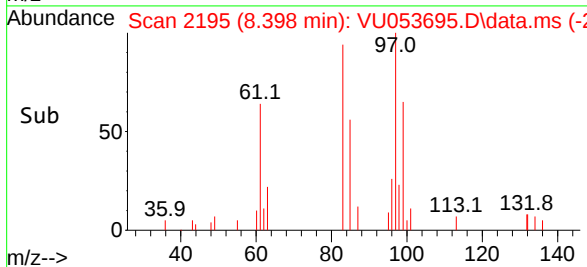
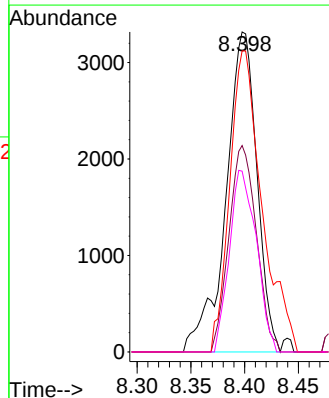
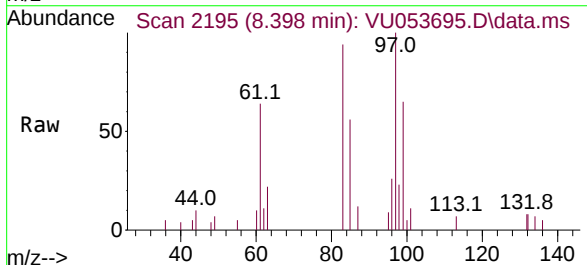
Instrument :
MSVOA_U
ClientSampleId :
BHE05

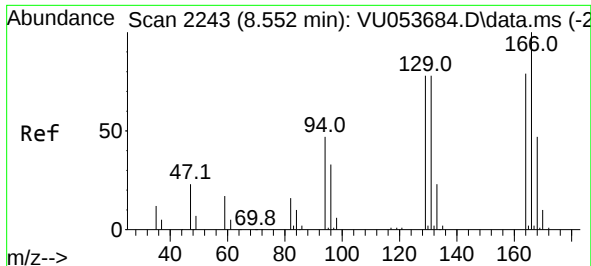
Tgt Ion: 63 Resp: 5218
Ion Ratio Lower Upper
63 100
112 19.3 3.0 4.4#



#45
1,1,2-Trichloroethane
Concen: 1.013 ug/L
RT: 8.398 min Scan# 2195
Delta R.T. -0.000 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

Tgt Ion: 97 Resp: 6660
Ion Ratio Lower Upper
97 100
99 64.5 38.9 72.2
83 94.1 57.6 107.0
85 56.5 36.2 67.2





#47

Tetrachloroethene

Concen: 1422.650 ug/L

RT: 8.558 min Scan# 2243

Delta R.T. 0.006 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

Instrument :

MSVOA_U

ClientSampleId :

BHE05

Tgt Ion:164 Resp: 9764301

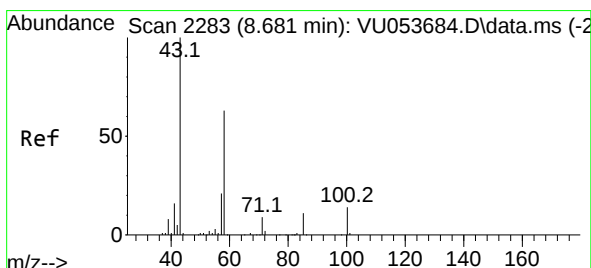
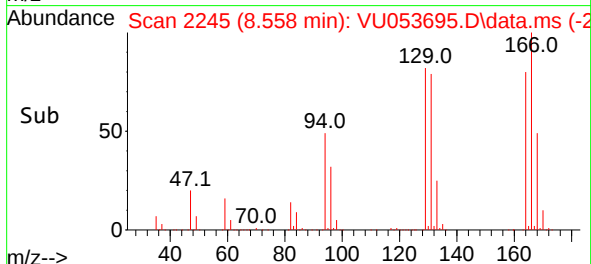
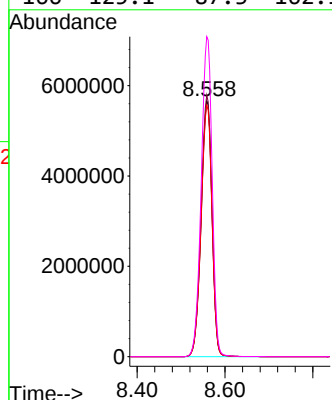
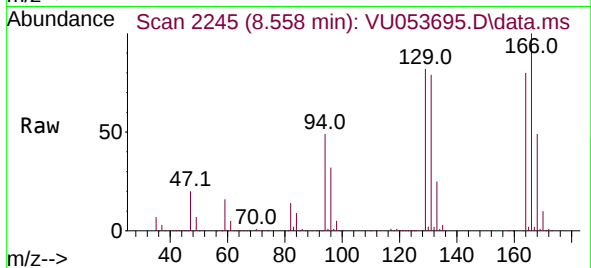
Ion Ratio Lower Upper

164 100

129 102.3 74.8 138.8

131 98.4 70.1 130.1

166 125.1 87.3 162.1



#48

2-Hexanone

Concen: 0.668 ug/L

RT: 8.684 min Scan# 2284

Delta R.T. 0.003 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

Tgt Ion: 43 Resp: 2240

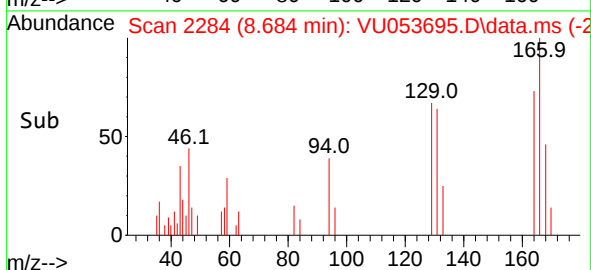
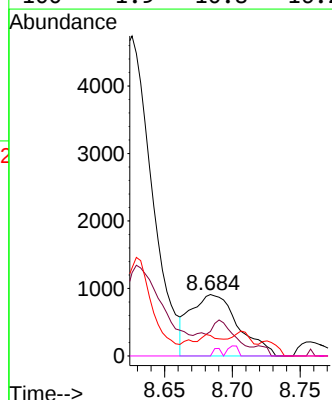
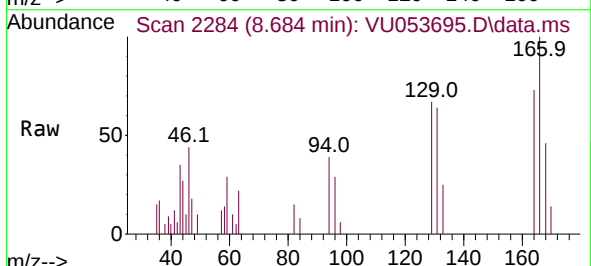
Ion Ratio Lower Upper

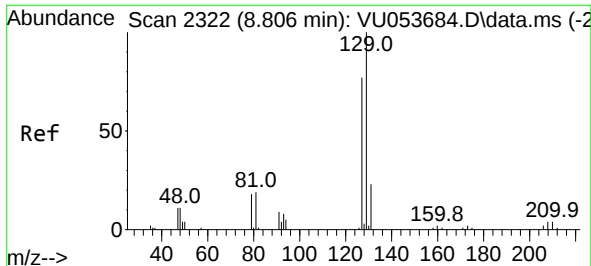
43 100

58 18.3 52.8 79.2#

57 14.3 17.1 25.7#

100 1.9 10.8 16.2#





#49

Dibromochloromethane

Concen: 1519.085 ug/L

RT: 8.558 min Scan# 21

Delta R.T. -0.248 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

Instrument :

MSVOA_U

ClientSampleId :

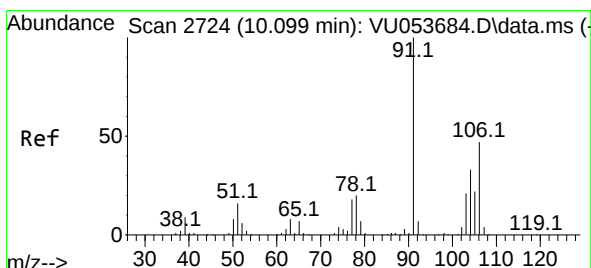
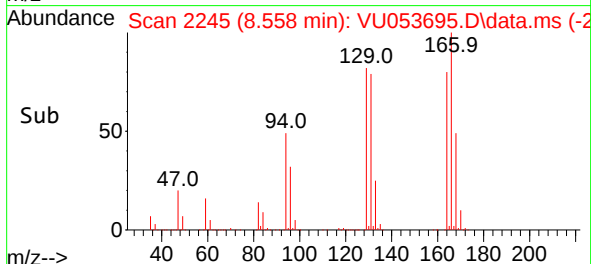
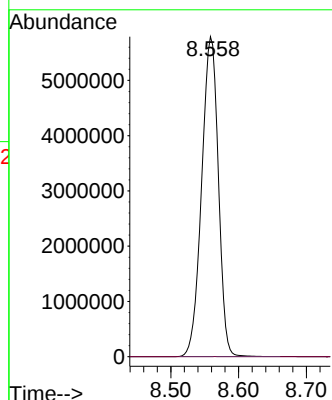
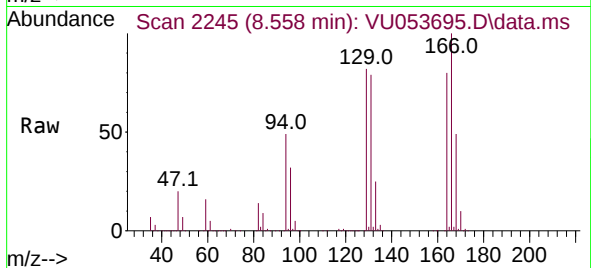
BHE05

Tgt Ion:129 Resp: 9878865

Ion Ratio Lower Upper

129 100

127 0.0 52.2 97.0#



#54

o-Xylene

Concen: 0.133 ug/L

RT: 10.102 min Scan# 2725

Delta R.T. 0.003 min

Lab File: VU053695.D

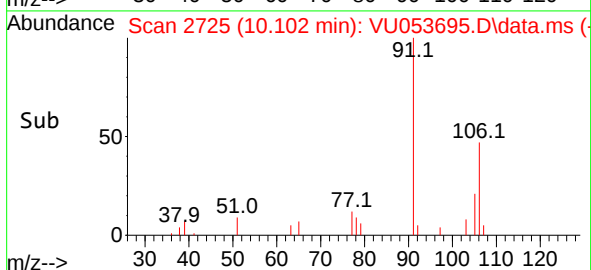
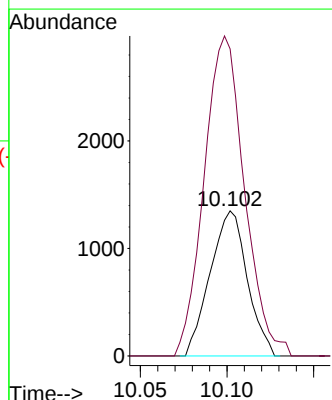
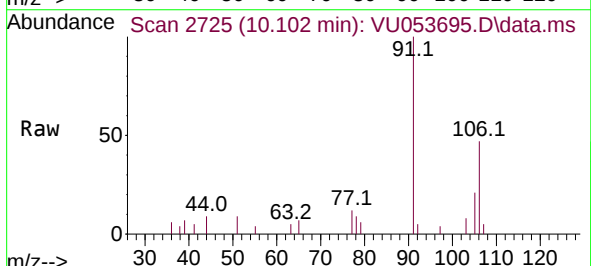
Acq: 13 Apr 2023 20:35

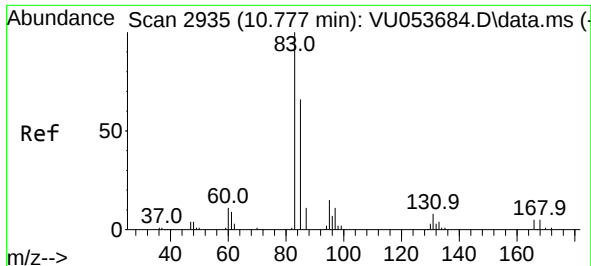
Tgt Ion:106 Resp: 2009

Ion Ratio Lower Upper

106 100

91 211.4 150.8 280.0





#57

1,1,2,2-Tetrachloroethane

Concen: 0.181 ug/L

RT: 10.780 min Scan# 2935

Delta R.T. 0.003 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

Instrument :

MSVOA_U

ClientSampleId :

BHE05

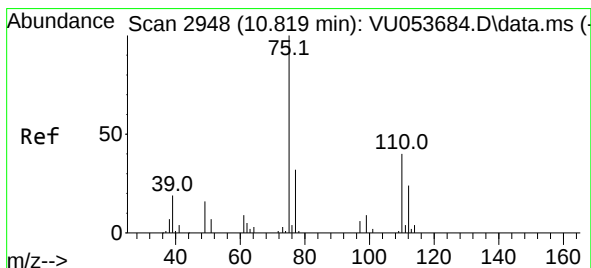
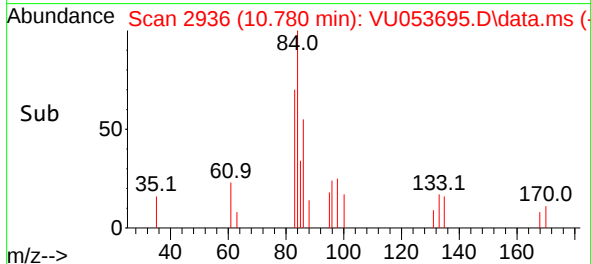
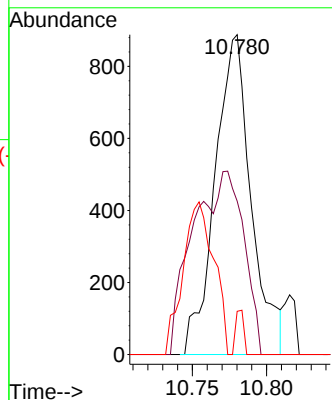
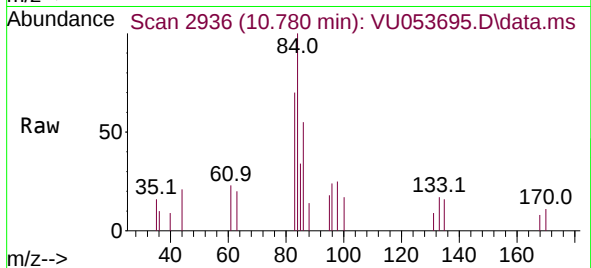
Tgt Ion: 83 Resp: 1499

Ion Ratio Lower Upper

83 100

85 48.0 43.8 81.4

131 13.5 7.2 10.8#



#61

1,2,3-Trichloropropane

Concen: 1.987 ug/L

RT: 11.806 min Scan# 3255

Delta R.T. 0.987 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

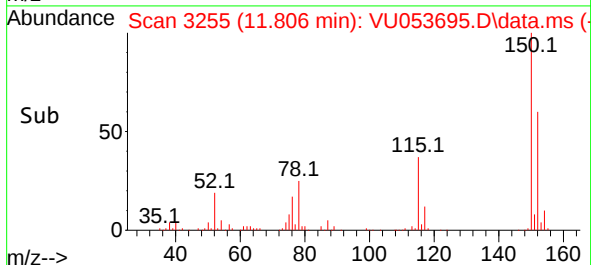
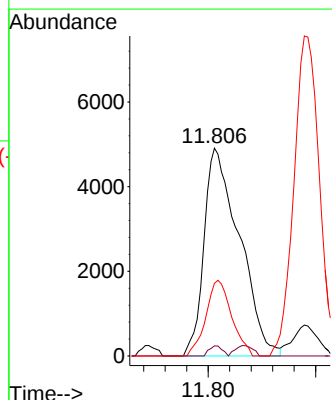
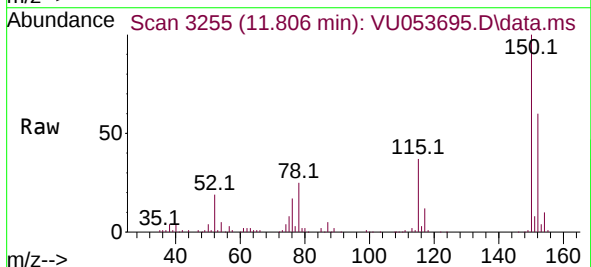
Tgt Ion: 75 Resp: 11220

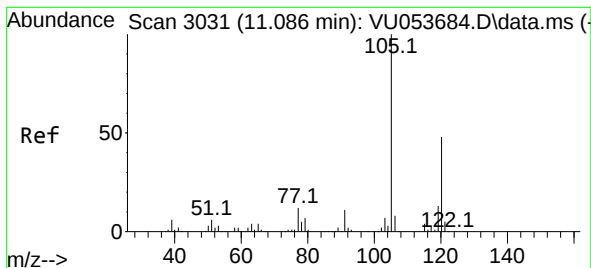
Ion Ratio Lower Upper

75 100

110 1.8 30.6 46.0#

77 26.5 26.1 39.1





#62

1,3,5-Trimethylbenzene

Concen: 2.907 ug/L

RT: 11.893 min Scan# 31

Delta R.T. 0.807 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

Instrument :

MSVOA_U

ClientSampleId :

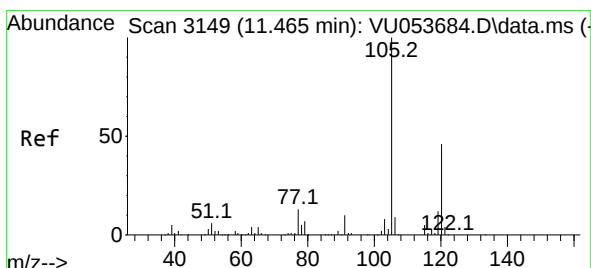
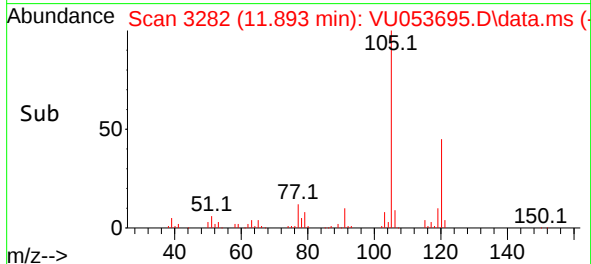
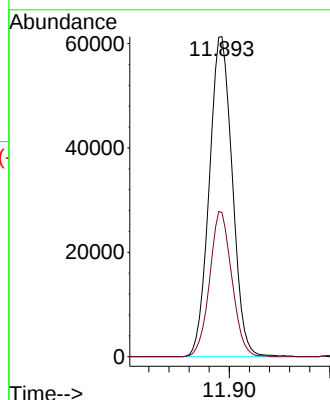
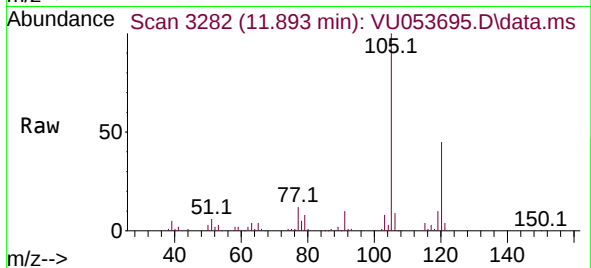
BHE05

Tgt Ion:105 Resp: 97656

Ion Ratio Lower Upper

105 100

120 43.7 37.8 56.8



#63

1,2,4-Trimethylbenzene

Concen: 2.838 ug/L

RT: 11.893 min Scan# 3282

Delta R.T. 0.428 min

Lab File: VU053695.D

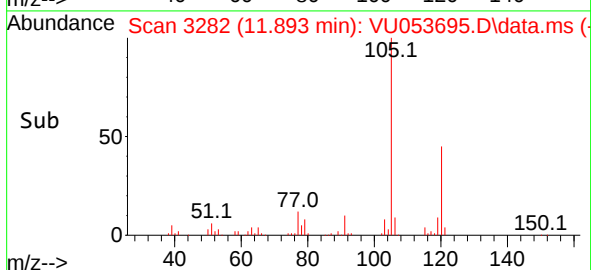
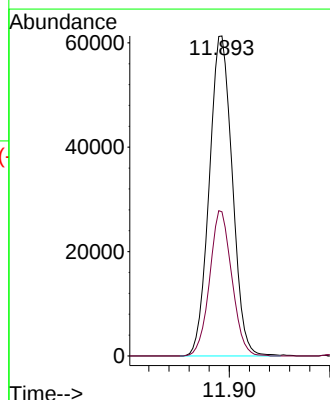
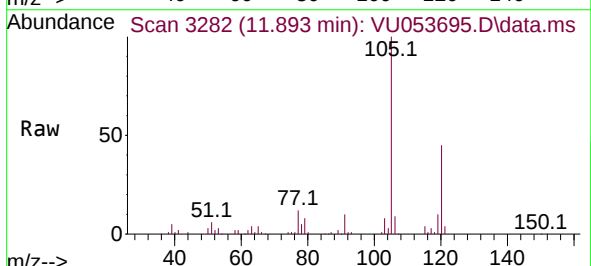
Acq: 13 Apr 2023 20:35

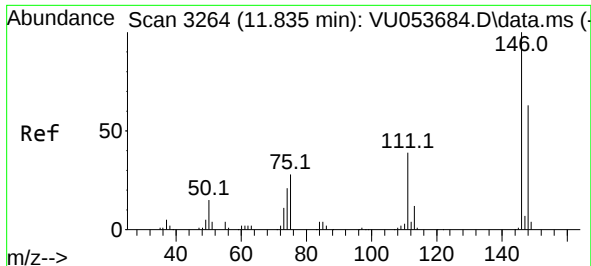
Tgt Ion:105 Resp: 97656

Ion Ratio Lower Upper

105 100

120 43.7 35.4 53.0





#65

1,4-Dichlorobenzene

Concen: 0.570 ug/L

RT: 11.832 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

Instrument :

MSVOA_U

ClientSampleId :

BHE05

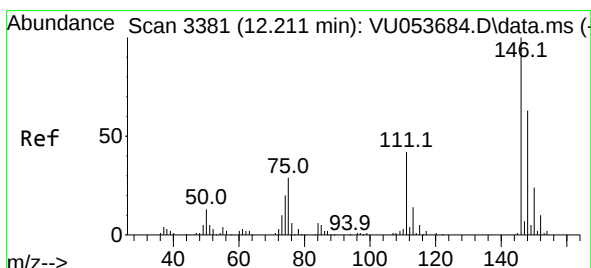
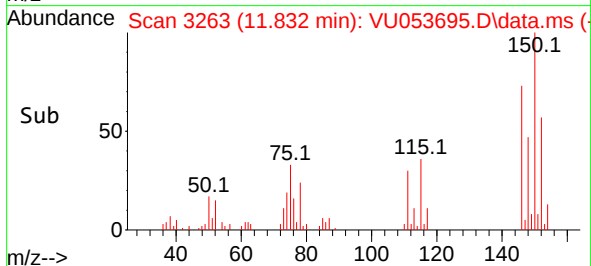
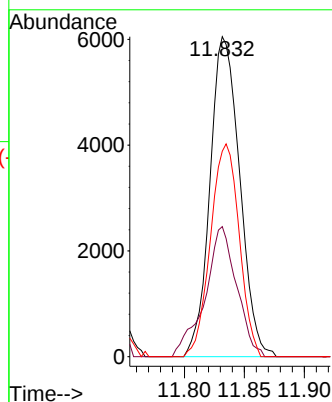
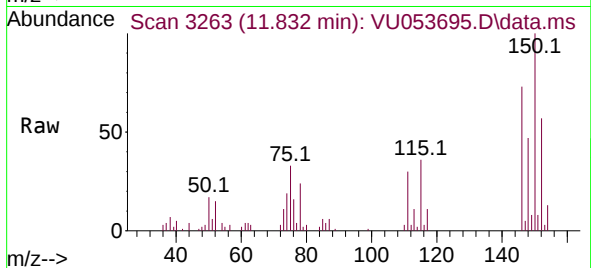
Tgt Ion:146 Resp: 10419

Ion Ratio Lower Upper

146 100

111 40.6 29.8 55.4

148 64.2 43.0 80.0



#67

1,2-Dichlorobenzene

Concen: 0.276 ug/L

RT: 12.208 min Scan# 3380

Delta R.T. -0.003 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

Tgt Ion:146 Resp: 4768

Ion Ratio Lower Upper

146 100

111 41.0 35.0 52.6

148 57.3 48.2 72.4

