

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU041423\
 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
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
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
54) o-Xylene	10.102	106	2009	0.133	ug/L	97
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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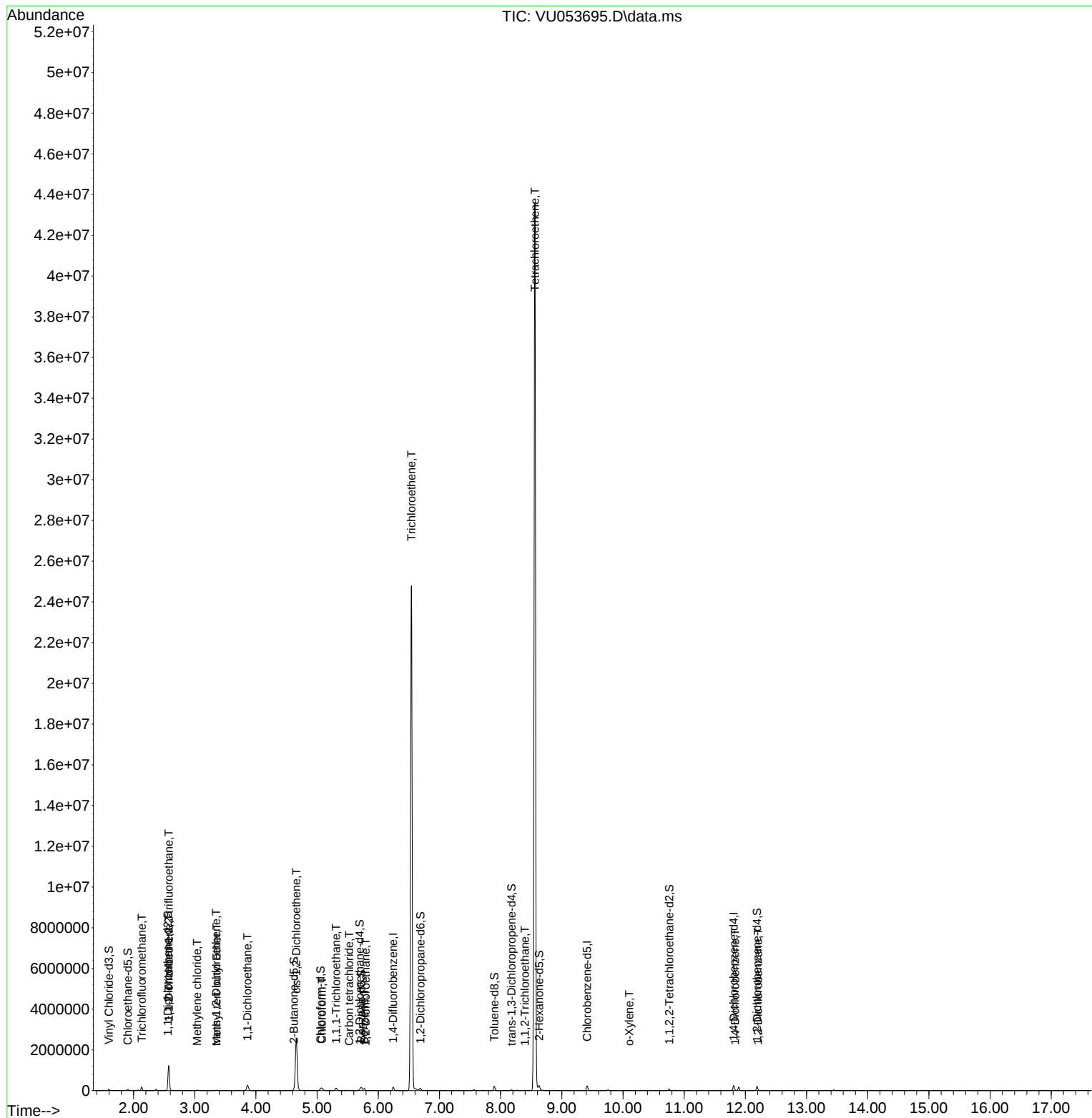
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

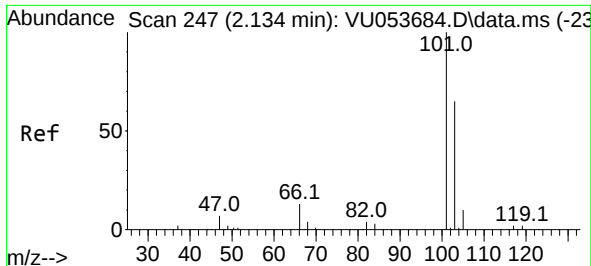
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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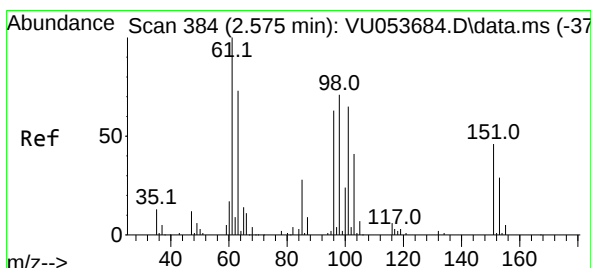
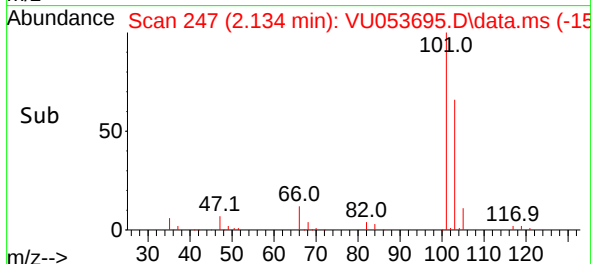
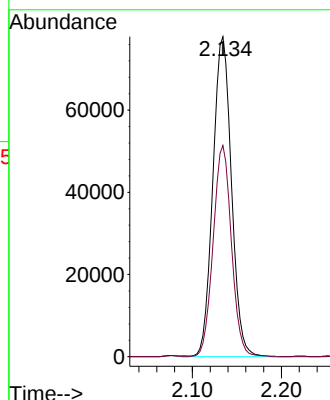
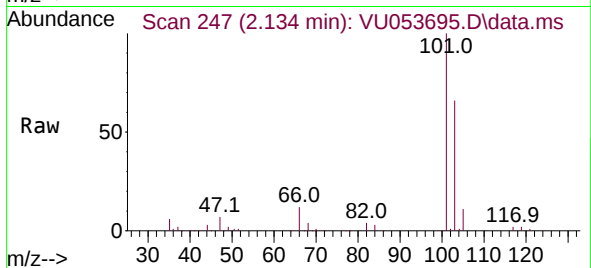




#9
 Trichlorofluoromethane
 Concen: 6.690 ug/L
 RT: 2.134 min Scan# 247
 Delta R.T. -0.000 min
 Lab File: VU053695.D
 Acq: 13 Apr 2023 20:35

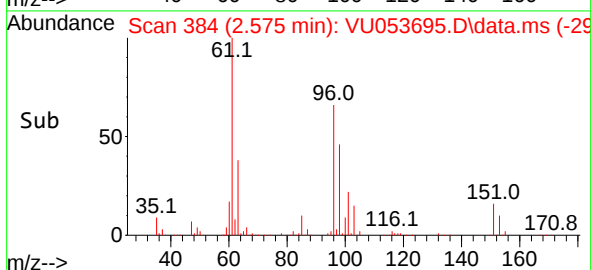
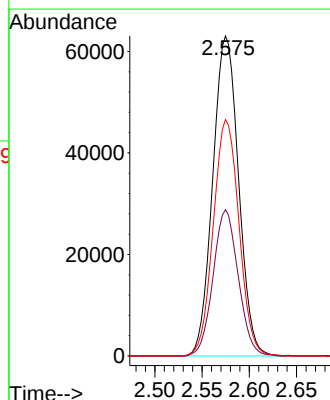
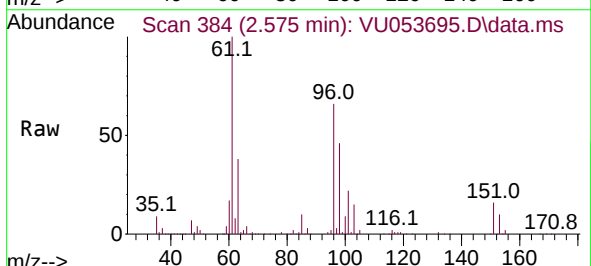
Instrument :
 MSVOA_U
 ClientSampleId :
 BHE05

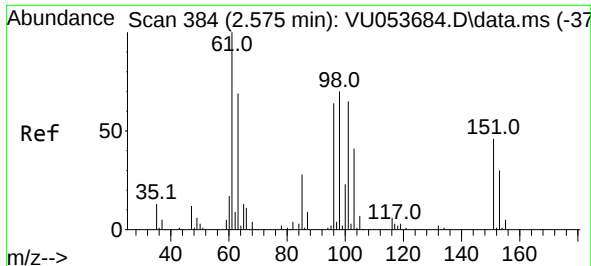
Tgt Ion:101 Resp: 112853
 Ion Ratio Lower Upper
 101 100
 103 64.9 50.2 75.2



#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# 384

Delta R.T. -0.000 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

Instrument :

MSVOA_U

ClientSampleId :

BHE05

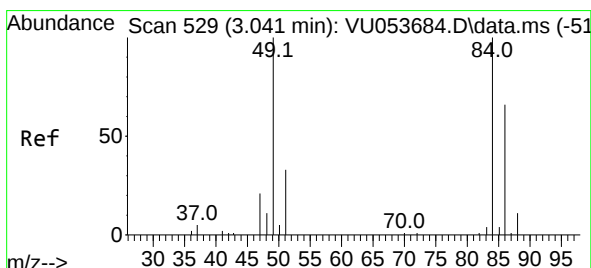
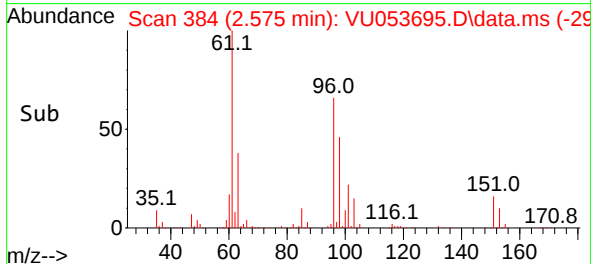
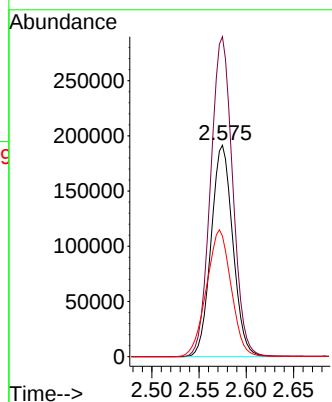
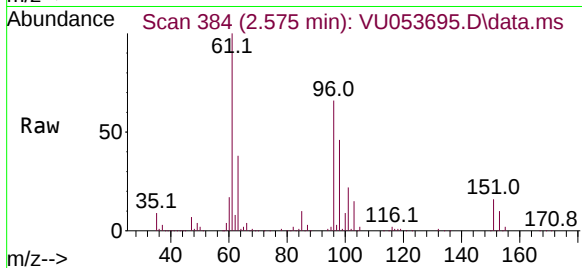
Tgt Ion: 96 Resp: 306656

Ion Ratio Lower Upper

96 100

61 151.3 116.8 216.8

63 57.0 88.6 164.6#



#16

Methylene chloride

Concen: 1.253 ug/L

RT: 3.038 min Scan# 528

Delta R.T. -0.003 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

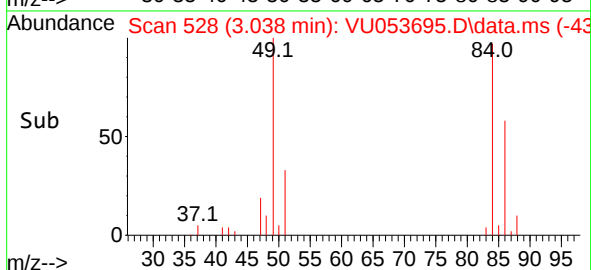
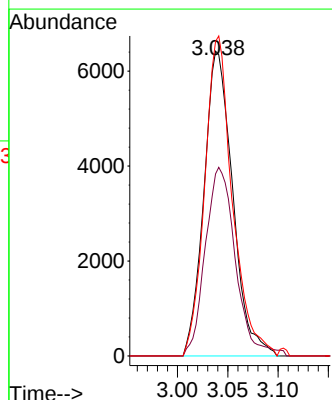
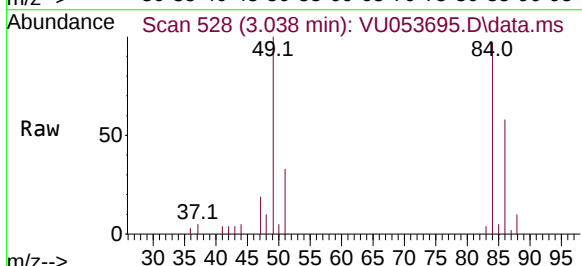
Tgt Ion: 84 Resp: 12788

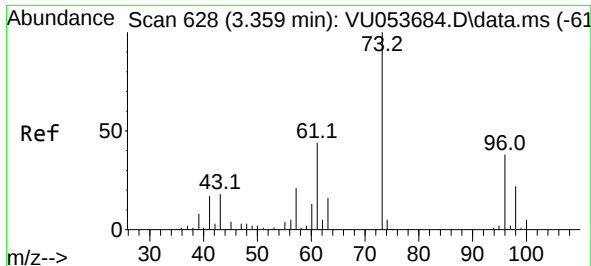
Ion Ratio Lower Upper

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# 61

Delta R.T. -0.000 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

Instrument :

MSVOA_U

ClientSampleId :

BHE05

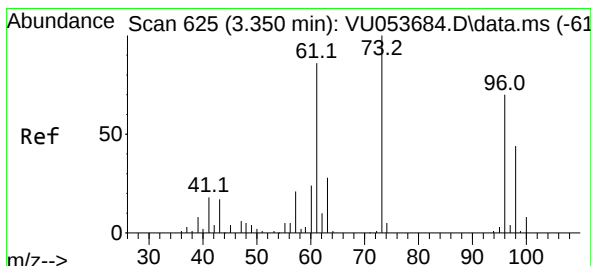
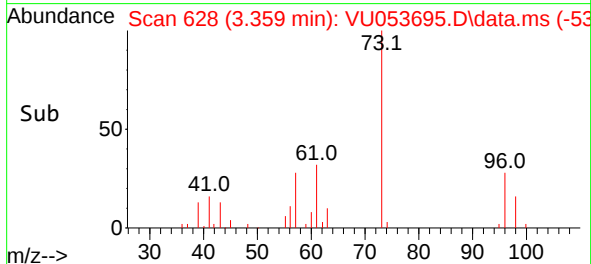
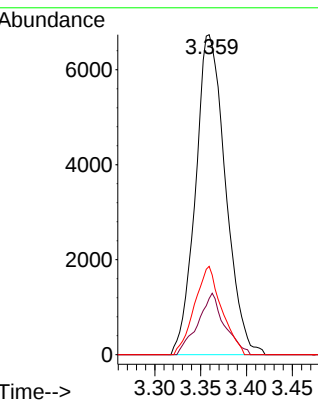
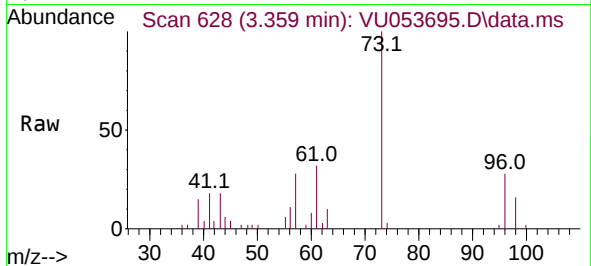
Tgt Ion: 73 Resp: 15301

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# 625

Delta R.T. -0.000 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

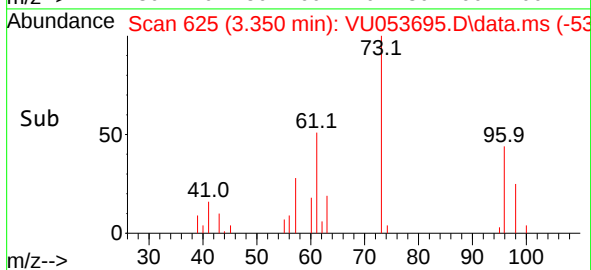
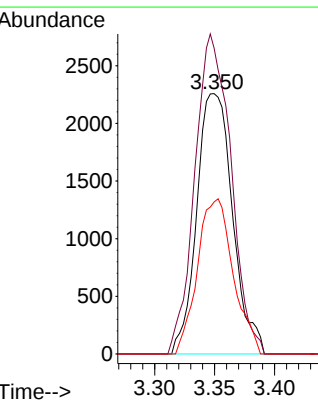
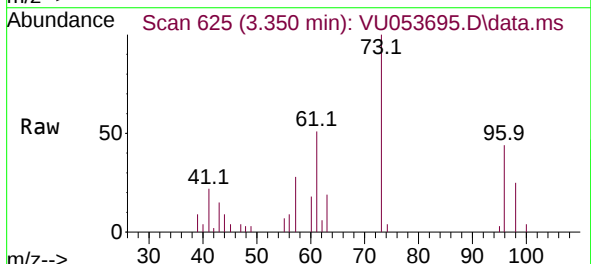
Tgt Ion: 96 Resp: 4696

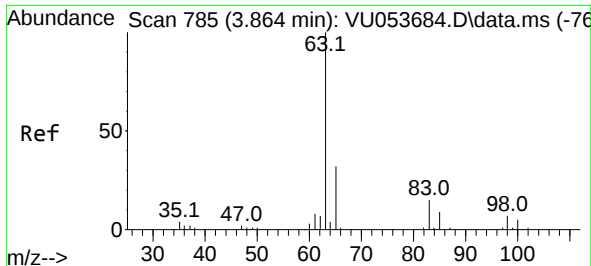
Ion Ratio Lower Upper

96 100

61 117.4 95.5 177.3

98 58.4 42.2 78.4

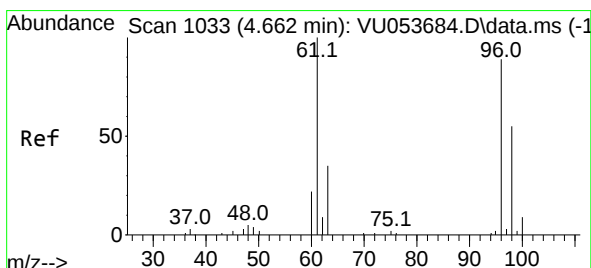
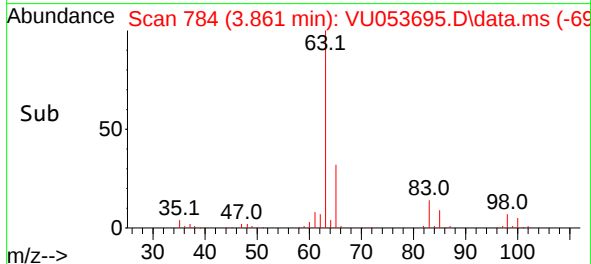
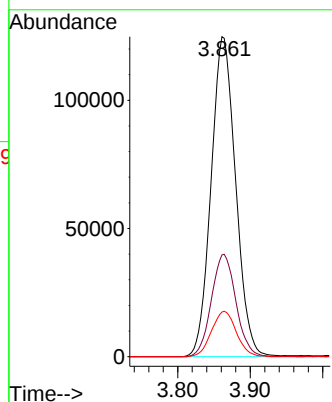
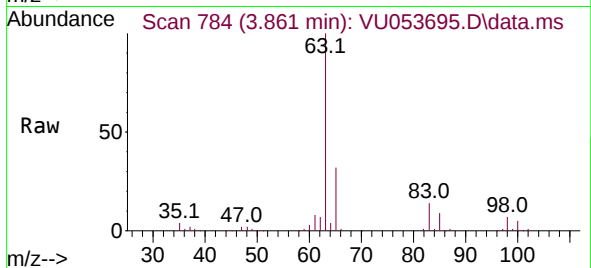




#19
1,1-Dichloroethane
Concen: 19.729 ug/L
RT: 3.861 min Scan# 785
Delta R.T. -0.003 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

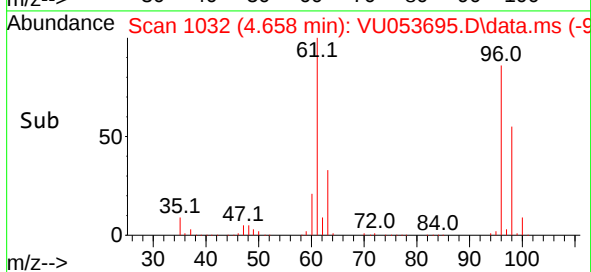
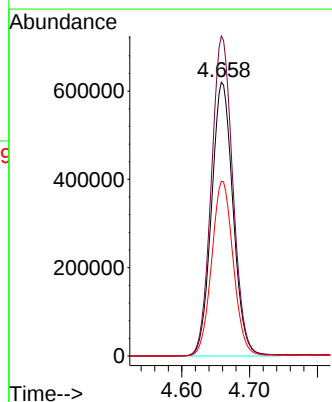
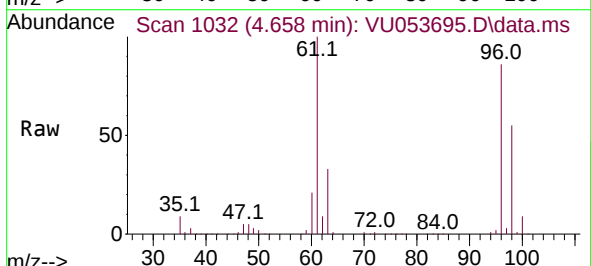
Instrument :
MSVOA_U
ClientSampleId :
BHE05

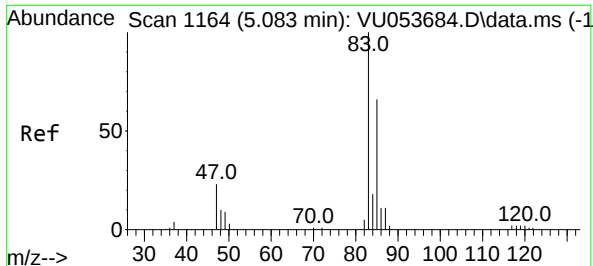
Tgt Ion: 63 Resp: 293283
Ion Ratio Lower Upper
63 100
65 31.8 21.7 40.3
83 14.0 8.1 15.1



#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

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

Instrument :

MSVOA_U

ClientSampleId :

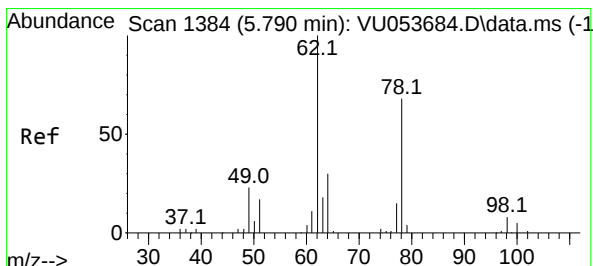
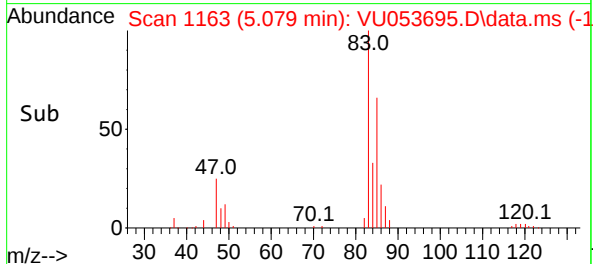
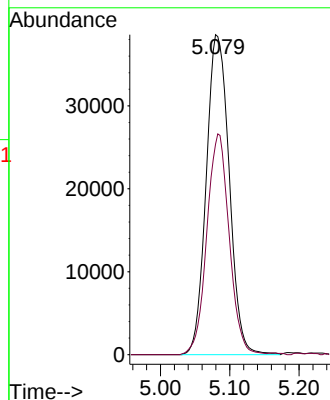
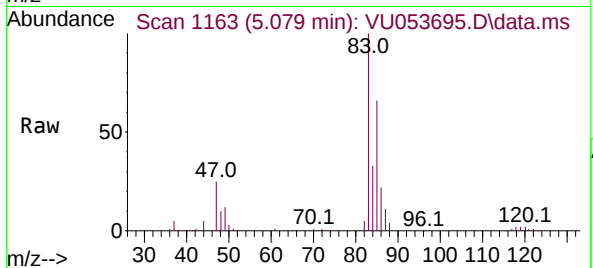
BHE05

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# 1385

Delta R.T. 0.003 min

Lab File: VU053695.D

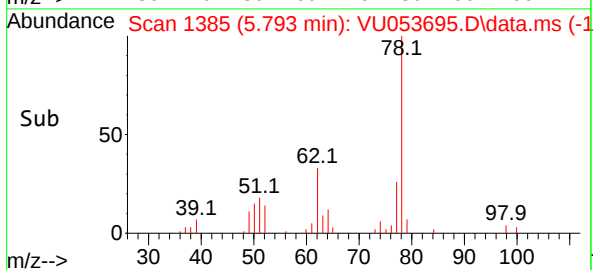
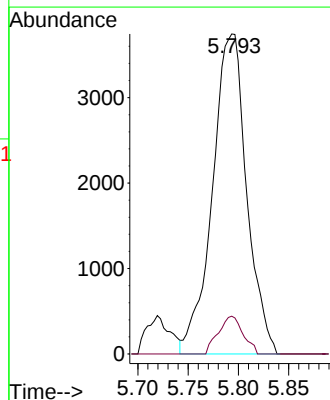
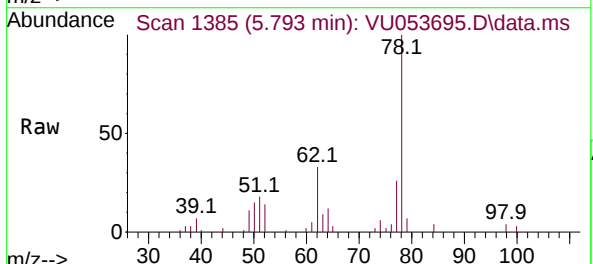
Acq: 13 Apr 2023 20:35

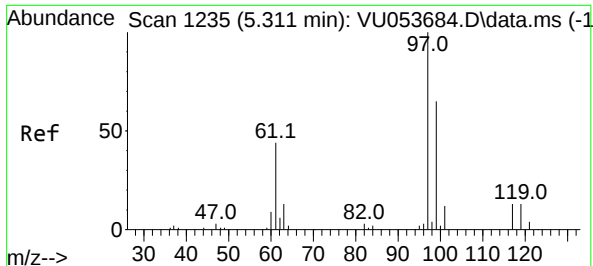
Tgt Ion: 62 Resp: 8878

Ion Ratio Lower Upper

62 100

98 11.8 6.4 9.6#

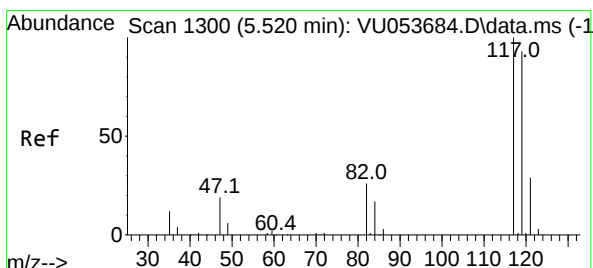
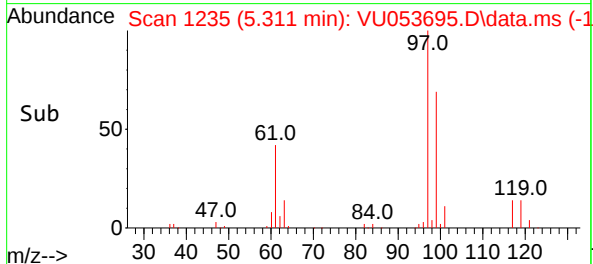
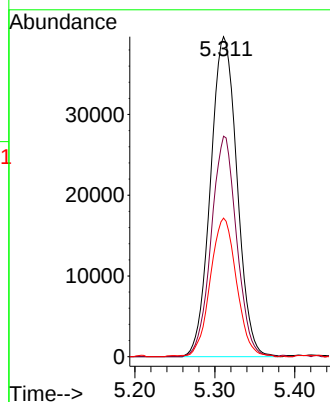
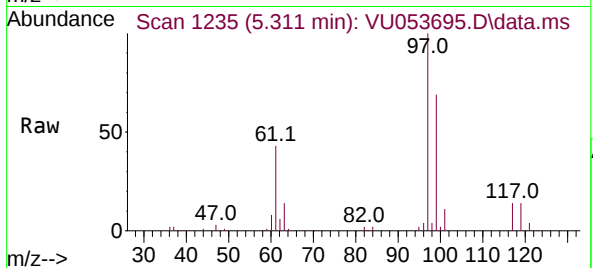




#29
1,1,1-Trichloroethane
Concen: 7.074 ug/L
RT: 5.311 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

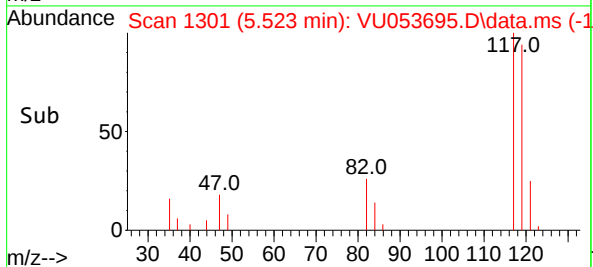
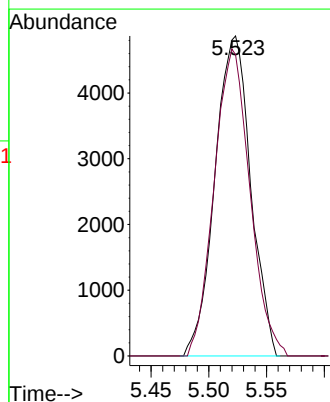
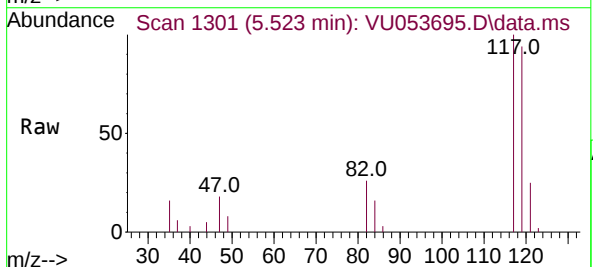
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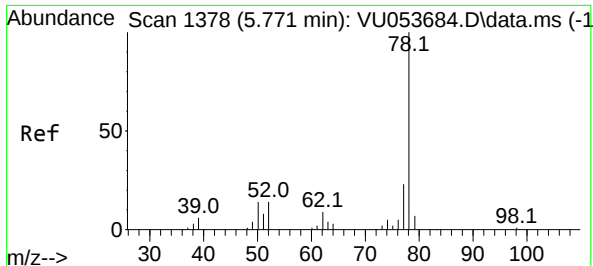
Tgt Ion: 97 Resp: 91431
Ion Ratio Lower Upper
97 100
99 66.1 49.9 74.9
61 43.0 35.7 53.5



#31
Carbon tetrachloride
Concen: 0.958 ug/L
RT: 5.523 min Scan# 1301
Delta R.T. 0.003 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

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

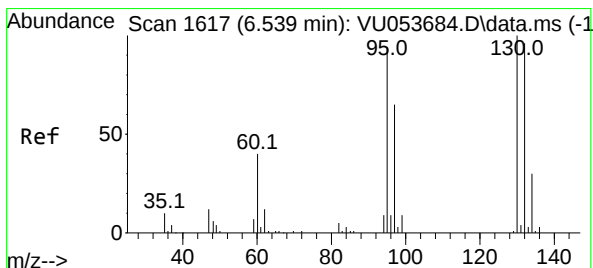
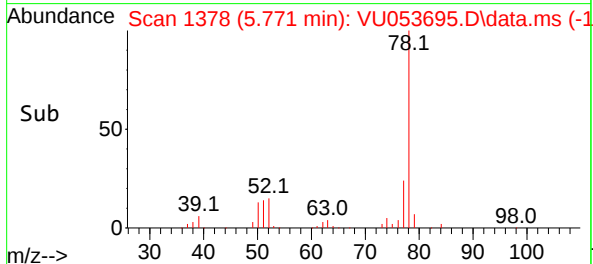
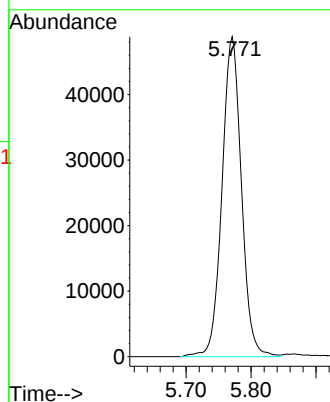
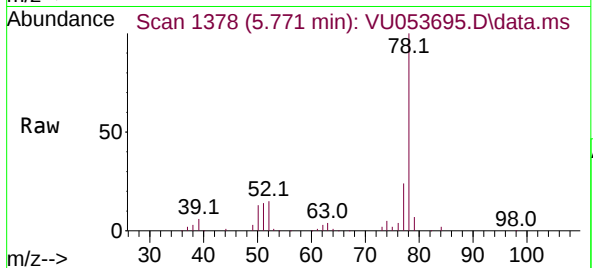




#33
Benzene
Concen: 2.883 ug/L
RT: 5.771 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

Instrument :
MSVOA_U
ClientSampleId :
BHE05

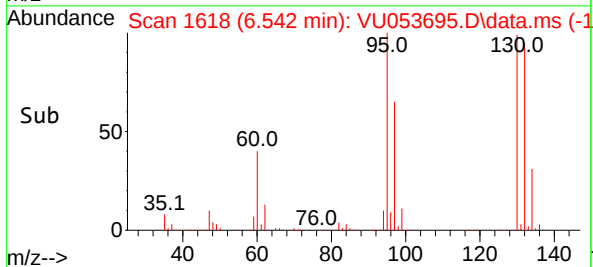
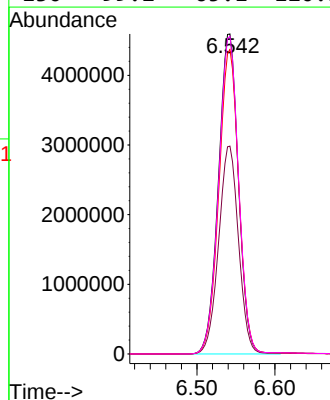
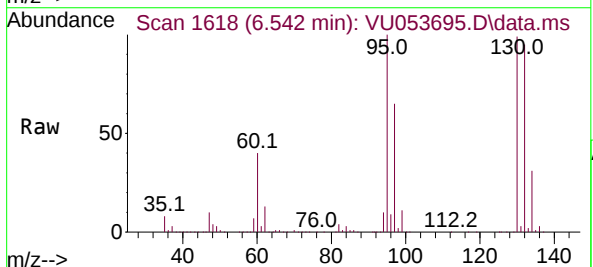
Tgt Ion: 78 Resp: 101135

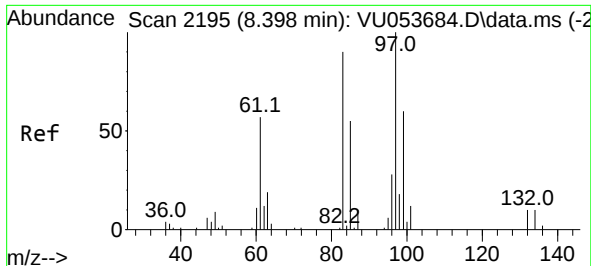


#34
Trichloroethene
Concen: 875.243 ug/L
RT: 6.542 min Scan# 1618
Delta R.T. 0.003 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

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



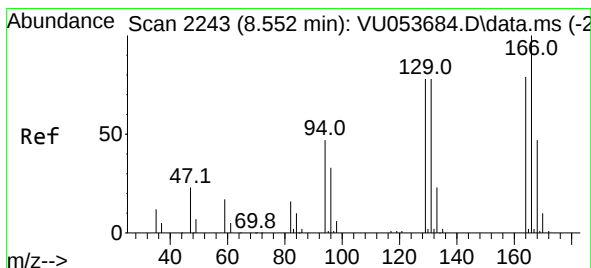
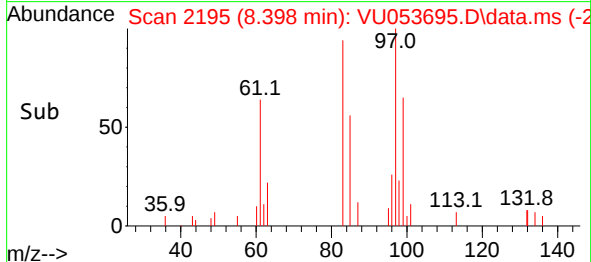
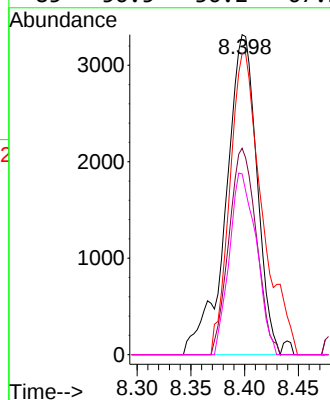
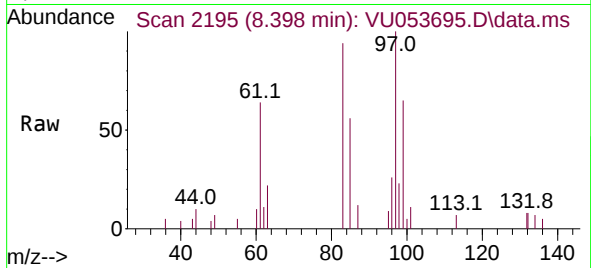


#45
1,1,2-Trichloroethane
Concen: 1.013 ug/L
RT: 8.398 min Scan# 2195
Delta R.T. -0.000 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

Instrument :
MSVOA_U
ClientSampleId :
BHE05

Tgt Ion: 97 Resp: 6660

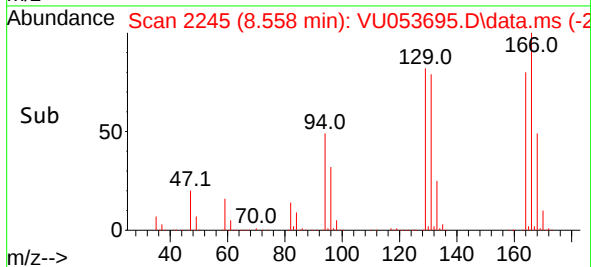
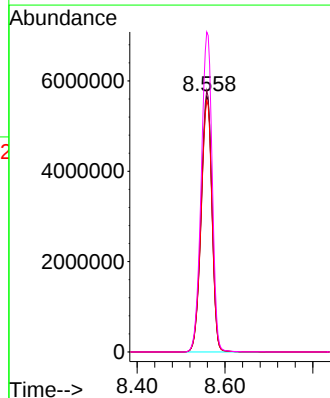
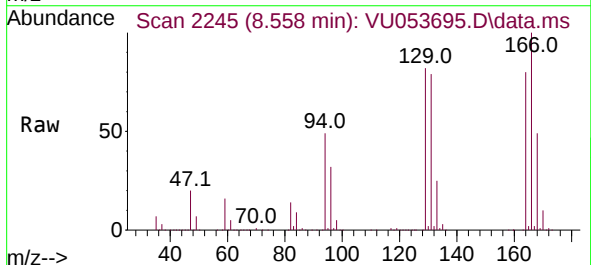
Ion	Ratio	Lower	Upper
97	100		
99	64.5	38.9	72.2
83	94.1	57.6	107.0
85	56.5	36.2	67.2

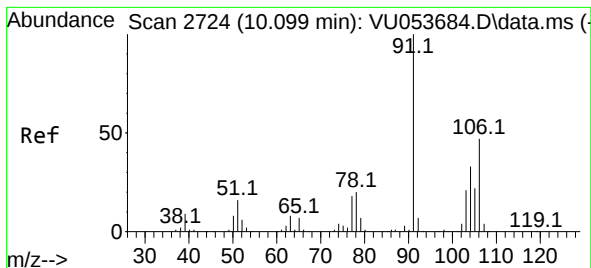


#47
Tetrachloroethene
Concen: 1422.650 ug/L
RT: 8.558 min Scan# 2245
Delta R.T. 0.006 min
Lab File: VU053695.D
Acq: 13 Apr 2023 20:35

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





#54

o-Xylene

Concen: 0.133 ug/L

RT: 10.102 min Scan# 21

Delta R.T. 0.003 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

Instrument :

MSVOA_U

ClientSampleId :

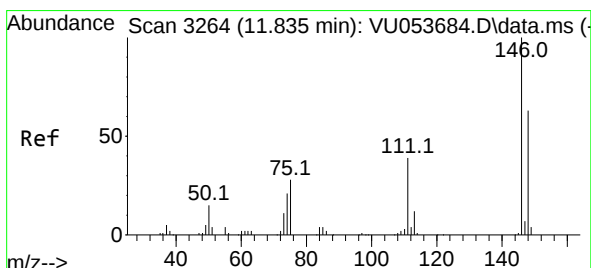
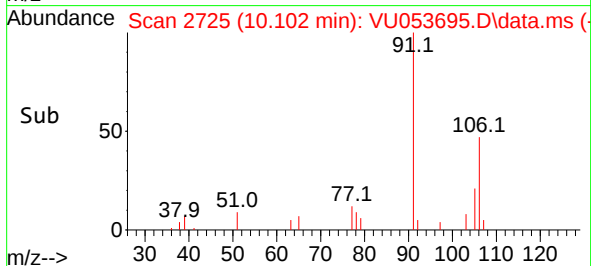
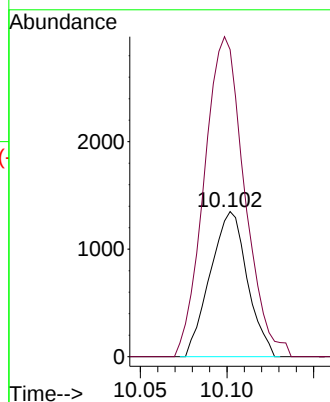
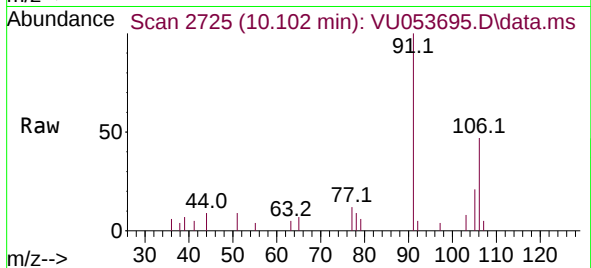
BHE05

Tgt Ion:106 Resp: 2009

Ion Ratio Lower Upper

106 100

91 211.4 150.8 280.0



#65

1,4-Dichlorobenzene

Concen: 0.570 ug/L

RT: 11.832 min Scan# 3263

Delta R.T. -0.003 min

Lab File: VU053695.D

Acq: 13 Apr 2023 20:35

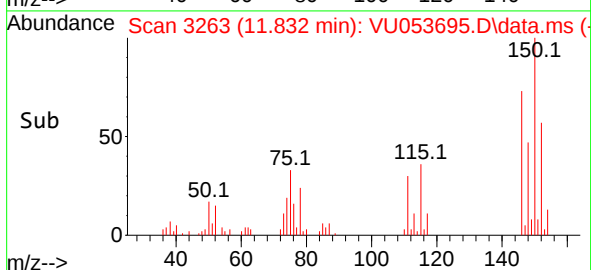
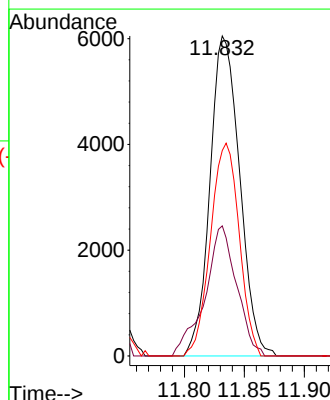
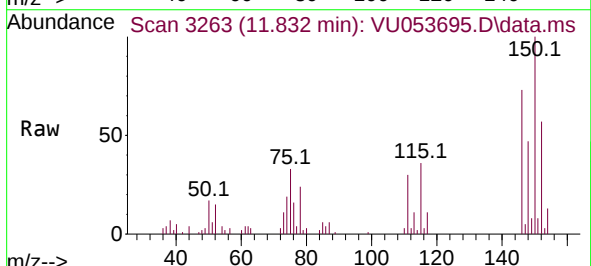
Tgt Ion:146 Resp: 10419

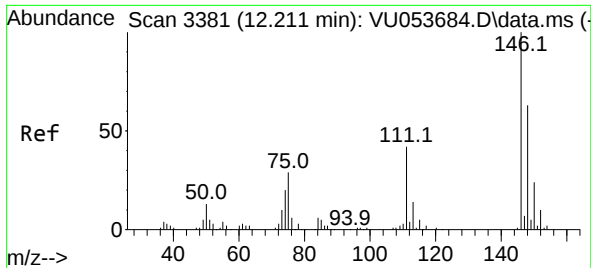
Ion Ratio Lower Upper

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# 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: 4768
 Ion Ratio Lower Upper
 146 100
 111 41.0 35.0 52.6
 148 57.3 48.2 72.4

