

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU051823\
 Data File : VU054186.D
 Acq On : 18 May 2023 23:42
 Operator : JC/MD
 Sample : VSTDCCC005
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD005167

Quant Time: May 19 02:12:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR051823WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri May 19 02:02:28 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.243	114	174667	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.411	117	168090	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	91708	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	46222	4.908	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	98.200%
7) Chloroethane-d5	1.912	69	37162	5.275	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	105.600%
11) 1,1-Dichloroethene-d2	2.565	65	21130	4.968	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.400%
20) 2-Butanone-d5	4.633	46	89988	53.585	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.180%
24) Chloroform-d	5.057	84	91426	5.164	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.200%
26) 1,2-Dichloroethane-d4	5.697	65	40418	4.962	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.200%
32) Benzene-d6	5.723	84	172383	5.036	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.800%
36) 1,2-Dichloropropane-d6	6.684	67	51996	5.255	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.200%
41) Toluene-d8	7.893	98	163493	5.058	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.200%
43) trans-1,3-Dichloroprop...	8.173	79	20098	5.029	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	100.600%
46) 2-Hexanone-d5	8.629	63	71016	59.685	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	119.360%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	38722	5.460	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	109.200%
66) 1,2-Dichlorobenzene-d4	12.189	152	59091	5.280	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.382	85	65851	4.987	ug/L	99
3) Chloromethane	1.517	50	62509	5.106	ug/L	99
5) Vinyl chloride	1.604	62	68140	5.240	ug/L	88
6) Bromomethane	1.858	94	35054	4.443	ug/L	96
8) Chloroethane	1.932	64	42731	5.187	ug/L	97
9) Trichlorofluoromethane	2.134	101	107250	5.191	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.578	101	61835	5.163	ug/L	96
12) 1,1-Dichloroethene	2.575	96	55544	5.195	ug/L	92
13) Acetone	2.646	43	87785	38.425	ug/L	98
14) Carbon disulfide	2.790	76	143154	5.330	ug/L	99
15) Methyl Acetate	2.954	43	21763	5.314	ug/L	96
16) Methylene chloride	3.041	84	64177	4.586	ug/L	96
17) Methyl tert-butyl Ether	3.359	73	144339	5.363	ug/L	99
18) trans-1,2-Dichloroethene	3.350	96	58198	5.352	ug/L	98
19) 1,1-Dichloroethane	3.864	63	115255	5.293	ug/L	97
21) 2-Butanone	4.710	43	149215	49.309	ug/L	97
22) cis-1,2-Dichloroethene	4.662	96	68197	5.364	ug/L	98
23) Bromochloromethane	4.967	128	30673	5.522	ug/L	98
25) Chloroform	5.080	83	122430	5.184	ug/L	97

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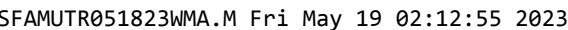
Instrument :
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 ClientSampleId :
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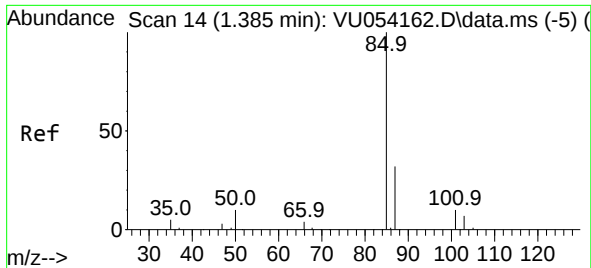
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 Quant Title : TRACE VOA SFAM1.0
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane	5.787	62	70653	5.203	ug/L	99
29) 1,1,1-Trichloroethane	5.311	97	108198	5.142	ug/L	100
30) Cyclohexane	5.382	56	90492	5.284	ug/L	97
31) Carbon tetrachloride	5.520	117	93092	5.102	ug/L	99
33) Benzene	5.768	78	250196	5.259	ug/L	100
34) Trichloroethene	6.536	95	66971	5.234	ug/L	99
35) Methylcyclohexane	6.758	83	92422	4.940	ug/L	99
37) 1,2-Dichloropropane	6.784	63	65413	5.236	ug/L	99
38) Bromodichloromethane	7.099	83	82842	5.237	ug/L	99
39) cis-1,3-Dichloropropene	7.604	75	97070	5.216	ug/L	99
40) 4-Methyl-2-pentanone	7.787	43	355332	55.878	ug/L	100
42) Toluene	7.964	91	272066	5.412	ug/L	96
44) trans-1,3-Dichloropropene	8.205	75	78276	5.124	ug/L	97
45) 1,1,2-Trichloroethane	8.395	97	48255	5.360	ug/L	97
47) Tetrachloroethene	8.549	164	53767	5.113	ug/L	96
48) 2-Hexanone	8.681	43	258605	53.787	ug/L	99
49) Dibromochloromethane	8.803	129	52897	5.263	ug/L	100
50) 1,2-Dibromoethane	8.919	107	44388	5.365	ug/L	100
51) Chlorobenzene	9.443	112	179143	5.270	ug/L	98
52) Ethylbenzene	9.565	91	301109	5.375	ug/L	99
53) m,p-Xylene	9.690	106	114396	5.376	ug/L	97
54) o-Xylene	10.095	106	112361	5.347	ug/L	98
55) Styrene	10.108	104	190259	5.537	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.777	83	59923	5.605	ug/L	98
59) Bromoform	10.285	173	30986	5.254	ug/L	98
60) Isopropylbenzene	10.478	105	304695	5.445	ug/L	100
61) 1,2,3-Trichloropropane	10.816	75	40219	5.409	ug/L	100
62) 1,3,5-Trimethylbenzene	11.083	105	249066	5.453	ug/L	100
63) 1,2,4-Trimethylbenzene	11.462	105	256993	5.637	ug/L	99
64) 1,3-Dichlorobenzene	11.738	146	149958	5.369	ug/L	99
65) 1,4-Dichlorobenzene	11.832	146	147807	5.327	ug/L	98
67) 1,2-Dichlorobenzene	12.208	146	139586	5.446	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.992	75	9347	5.880	ug/L #	82
69) 1,3,5-Trichlorobenzene	13.214	180	114256	5.483	ug/L	100
70) 1,2,4-trichlorobenzene	13.835	180	97264	5.637	ug/L	99
71) Naphthalene	14.082	128	154916	6.207	ug/L	100
72) 1,2,3-Trichlorobenzene	14.324	180	87119	5.966	ug/L	99

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

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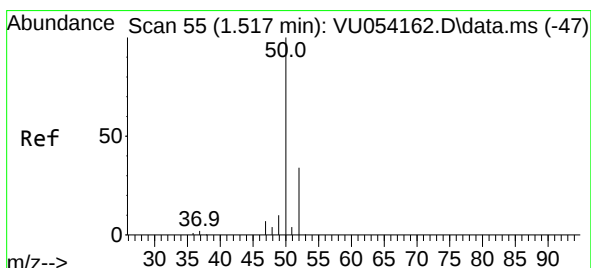
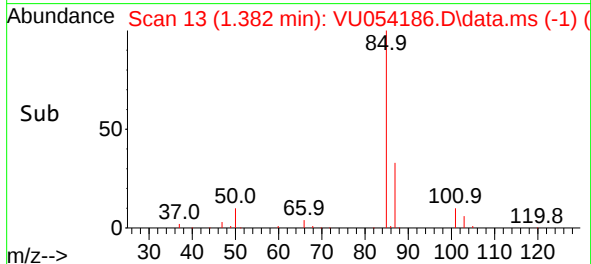
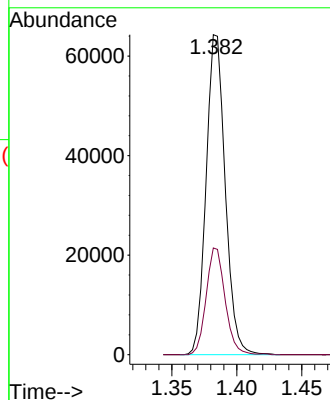
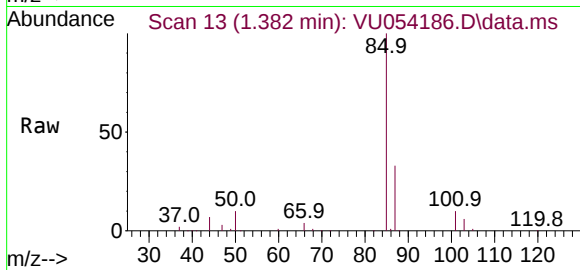




#2
Dichlorodifluoromethane
Concen: 4.987 ug/L
RT: 1.382 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

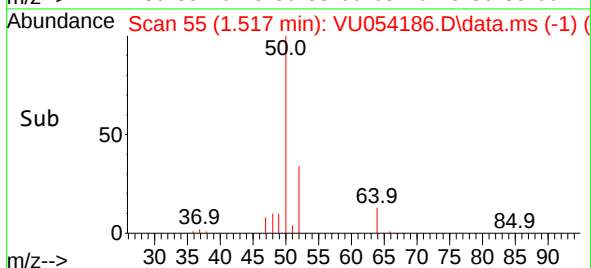
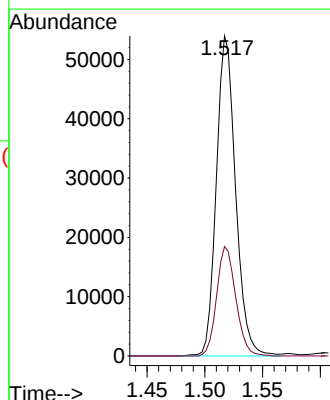
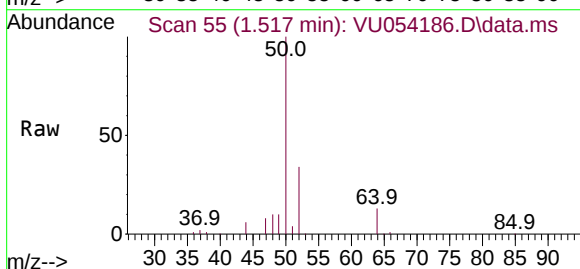
Instrument :
MSVOA_U
ClientSampleId :
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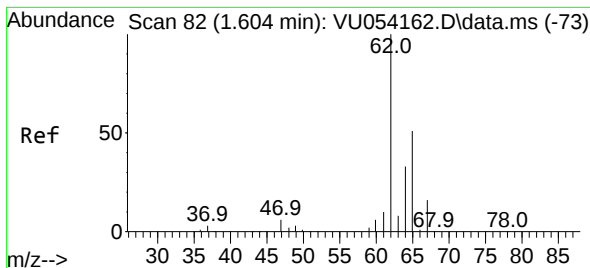
Tgt Ion: 85 Resp: 65851
Ion Ratio Lower Upper
85 100
87 33.0 26.1 39.1



#3
Chloromethane
Concen: 5.106 ug/L
RT: 1.517 min Scan# 55
Delta R.T. 0.000 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

Tgt Ion: 50 Resp: 62509
Ion Ratio Lower Upper
50 100
52 34.2 23.7 44.1





#5

Vinyl chloride

Concen: 5.240 ug/L

RT: 1.604 min Scan# 82

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

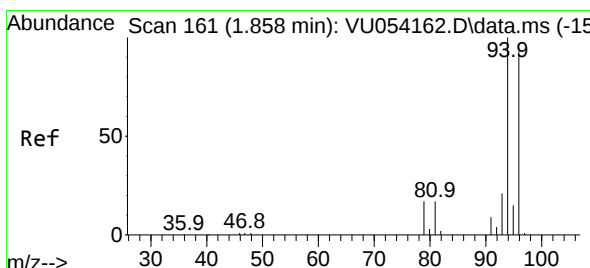
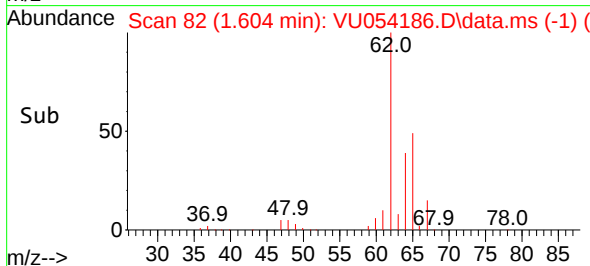
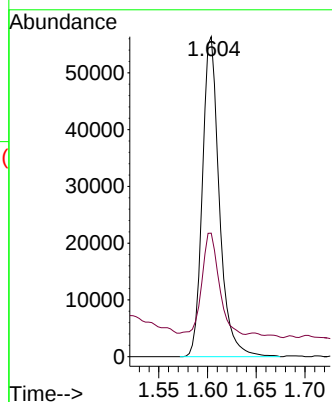
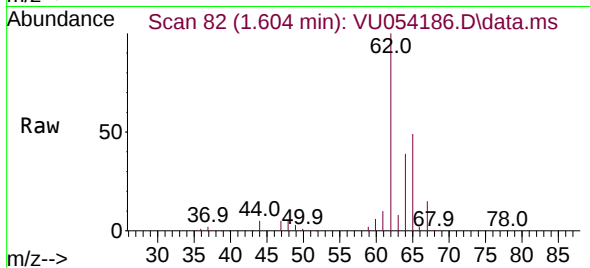
VSTD005167

Tgt Ion: 62 Resp: 68140

Ion Ratio Lower Upper

62 100

64 38.6 22.4 41.6



#6

Bromomethane

Concen: 4.443 ug/L

RT: 1.858 min Scan# 161

Delta R.T. 0.000 min

Lab File: VU054186.D

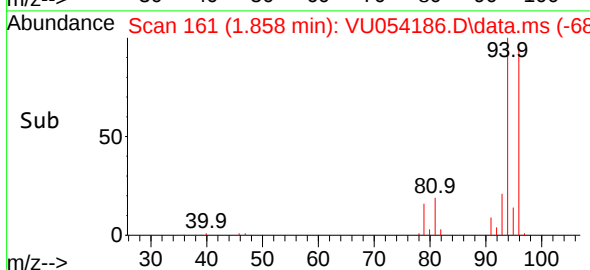
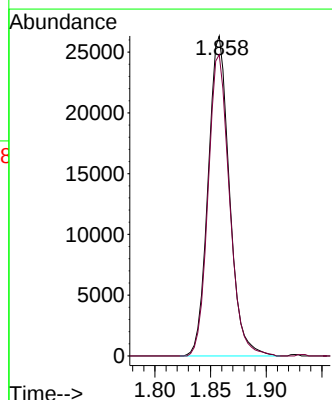
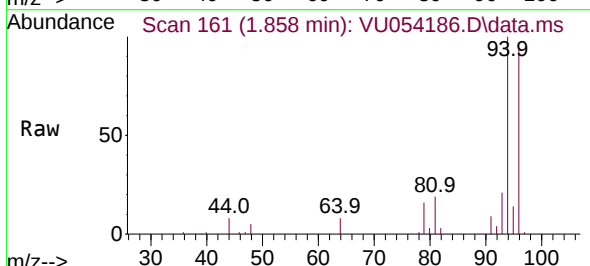
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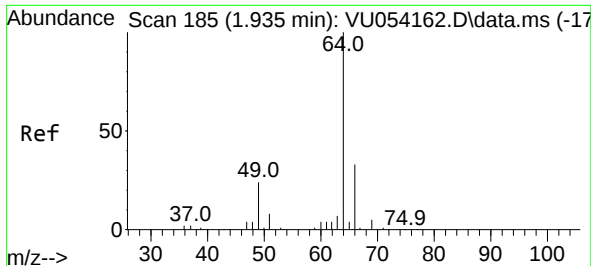
Tgt Ion: 94 Resp: 35054

Ion Ratio Lower Upper

94 100

96 94.1 68.7 127.5

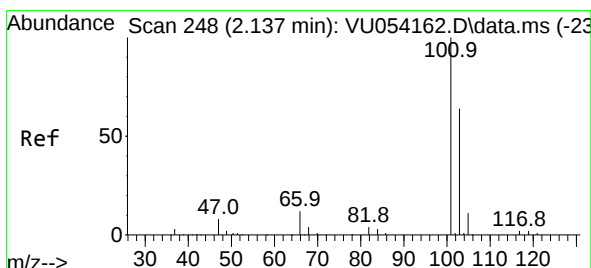
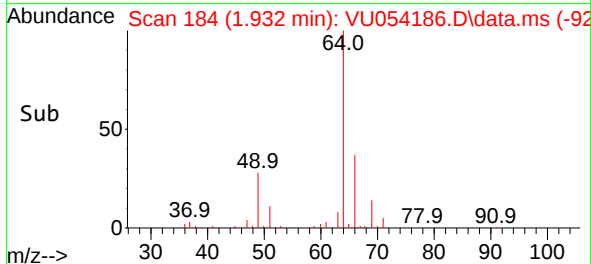
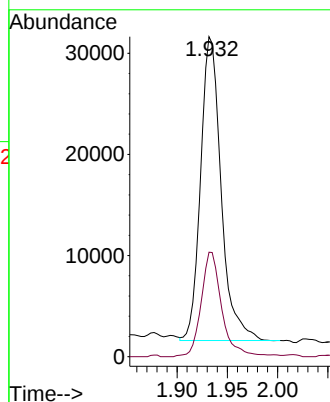
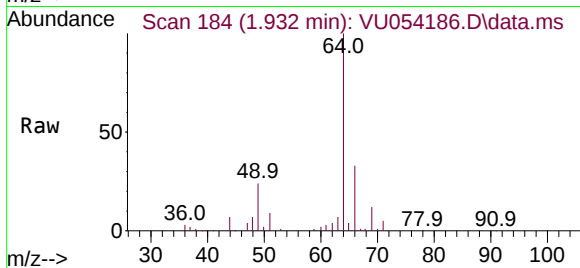




#8
Chloroethane
Concen: 5.187 ug/L
RT: 1.932 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

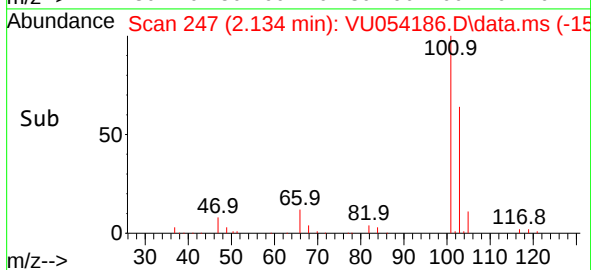
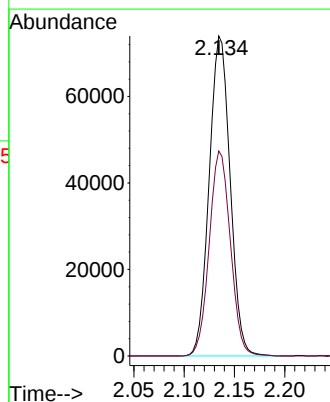
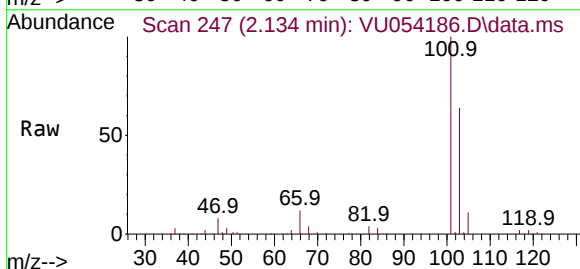
Instrument :
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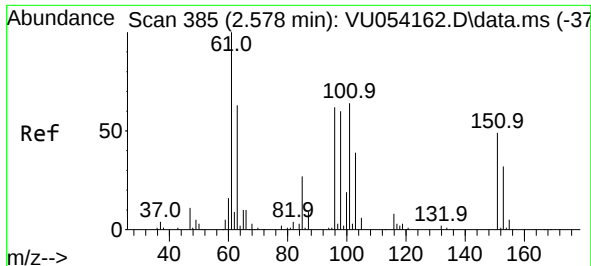
Tgt Ion: 64 Resp: 42731
Ion Ratio Lower Upper
64 100
66 32.6 21.6 40.0



#9
Trichlorofluoromethane
Concen: 5.191 ug/L
RT: 2.134 min Scan# 247
Delta R.T. -0.003 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

Tgt Ion:101 Resp: 107250
Ion Ratio Lower Upper
101 100
103 64.6 51.0 76.6

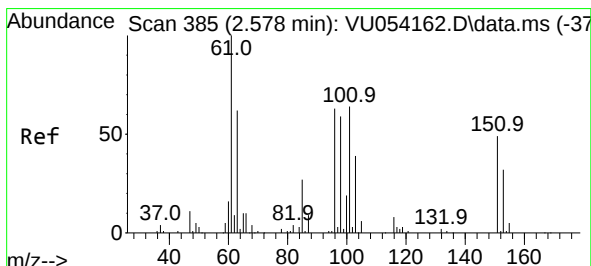
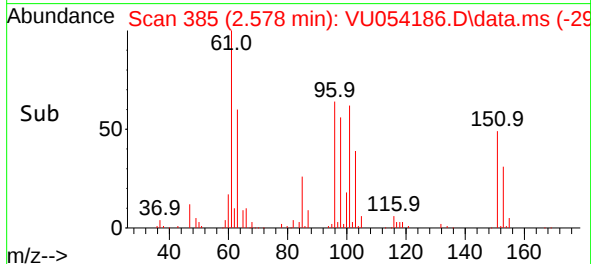
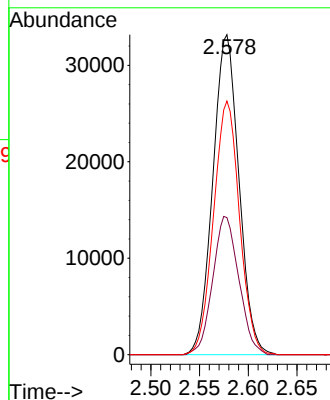
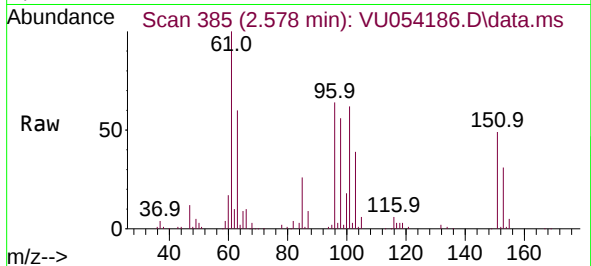




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 5.163 ug/L
 RT: 2.578 min Scan# 385
 Delta R.T. 0.000 min
 Lab File: VU054186.D
 Acq: 18 May 2023 23:42

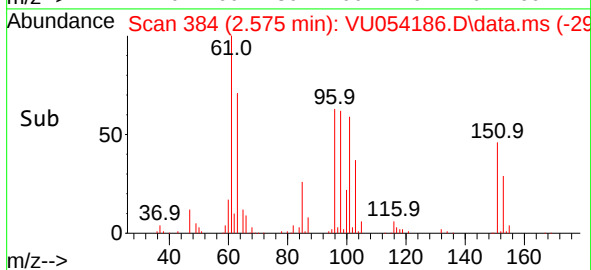
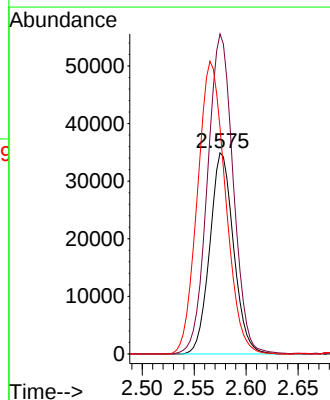
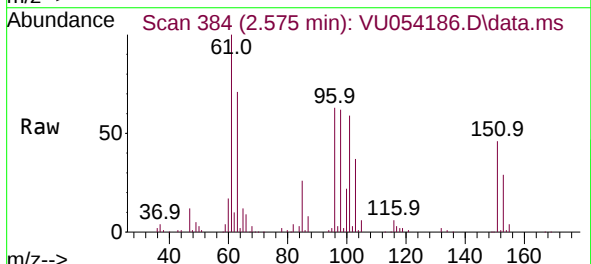
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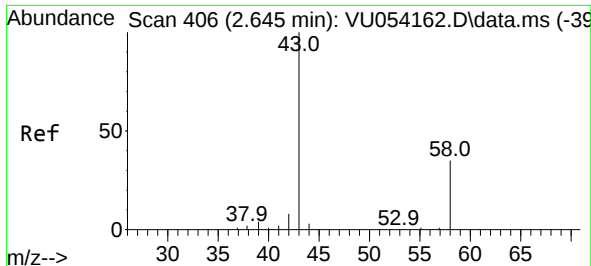
Tgt Ion:101 Resp: 61835
 Ion Ratio Lower Upper
 101 100
 85 43.2 35.0 52.4
 151 78.9 59.0 88.6



#12
 1,1-Dichloroethene
 Concen: 5.195 ug/L
 RT: 2.575 min Scan# 384
 Delta R.T. -0.003 min
 Lab File: VU054186.D
 Acq: 18 May 2023 23:42

Tgt Ion: 96 Resp: 55544
 Ion Ratio Lower Upper
 96 100
 61 159.1 114.7 212.9
 63 112.4 68.6 127.4





#13

Acetone

Concen: 38.425 ug/L

RT: 2.646 min Scan# 406

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

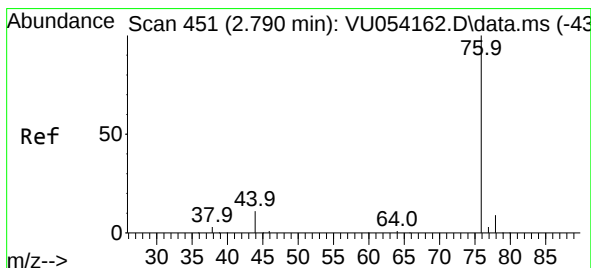
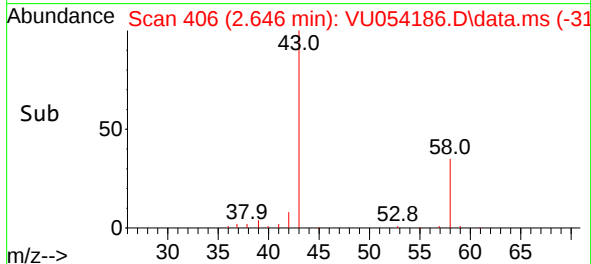
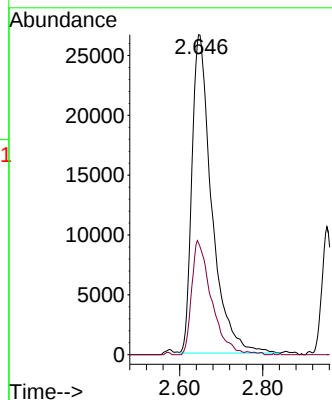
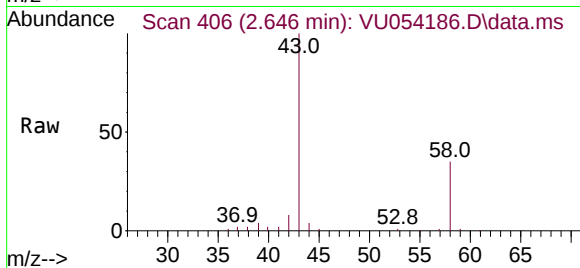
VSTD005167

Tgt Ion: 43 Resp: 87785

Ion Ratio Lower Upper

43 100

58 35.5 0.0 73.2



#14

Carbon disulfide

Concen: 5.330 ug/L

RT: 2.790 min Scan# 451

Delta R.T. 0.000 min

Lab File: VU054186.D

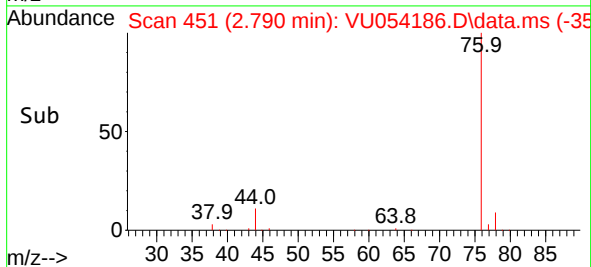
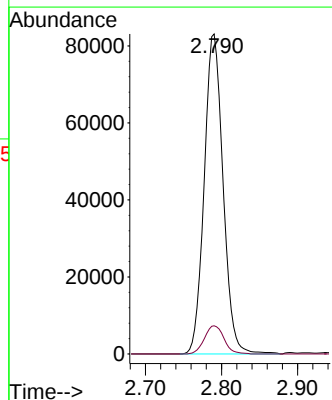
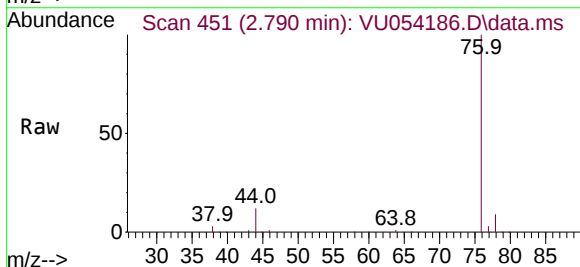
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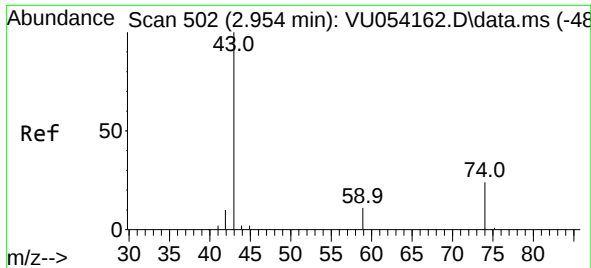
Tgt Ion: 76 Resp: 143154

Ion Ratio Lower Upper

76 100

78 8.8 7.4 11.0

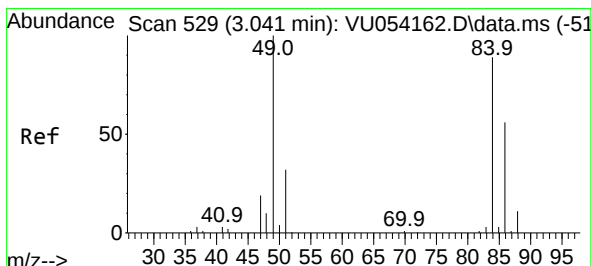
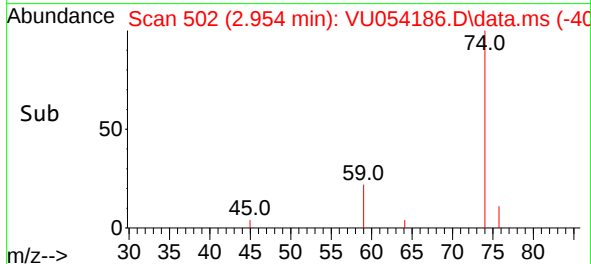
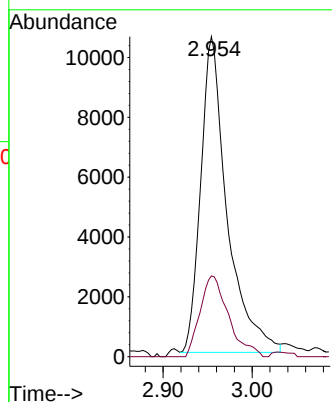
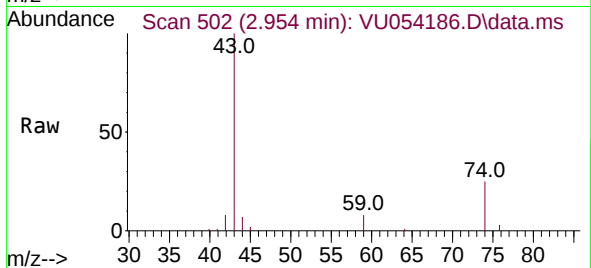




#15
Methyl Acetate
Concen: 5.314 ug/L
RT: 2.954 min Scan# 502
Delta R.T. 0.000 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

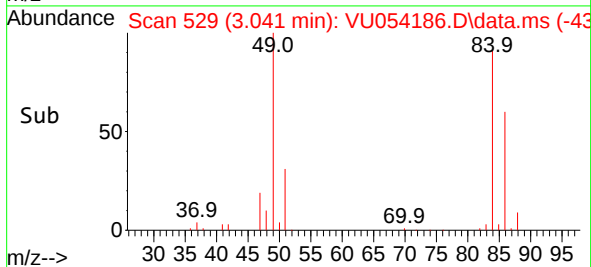
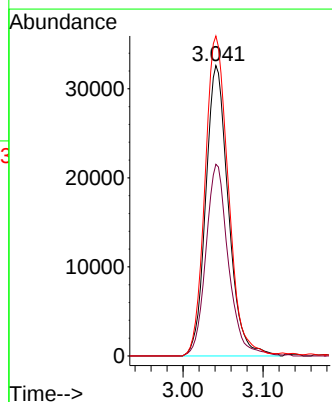
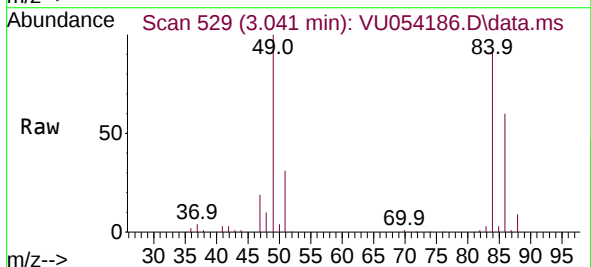
Instrument :
MSVOA_U
ClientSampleId :
VSTD005167

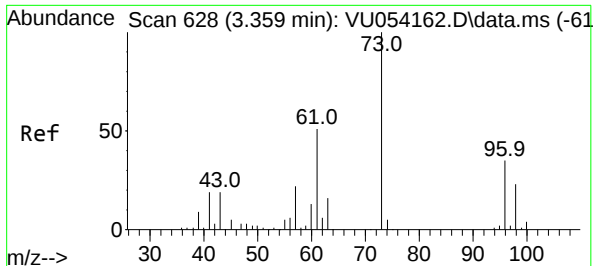
Tgt Ion: 43 Resp: 21763
Ion Ratio Lower Upper
43 100
74 27.4 20.3 30.5



#16
Methylene chloride
Concen: 4.586 ug/L
RT: 3.041 min Scan# 529
Delta R.T. 0.000 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

Tgt Ion: 84 Resp: 64177
Ion Ratio Lower Upper
84 100
86 66.0 45.5 84.5
49 110.2 81.3 150.9





#17

Methyl tert-butyl Ether

Concen: 5.363 ug/L

RT: 3.359 min Scan# 61

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD005167

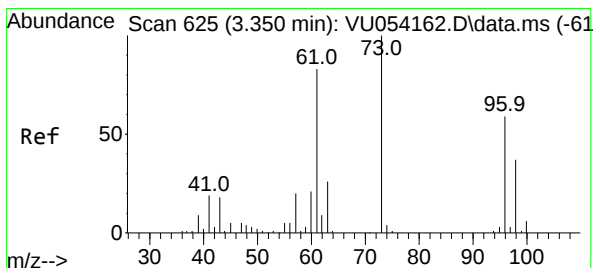
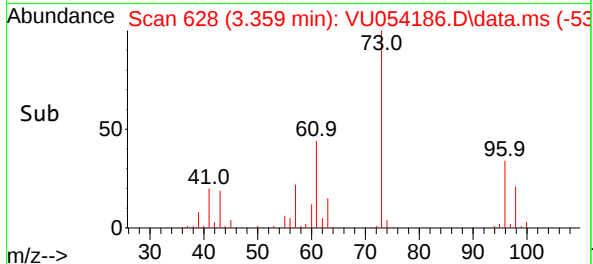
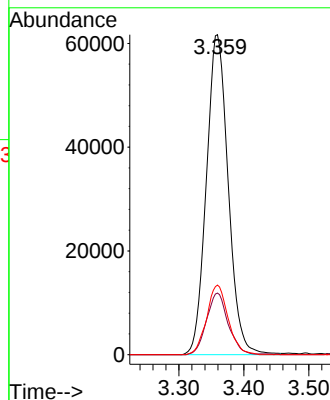
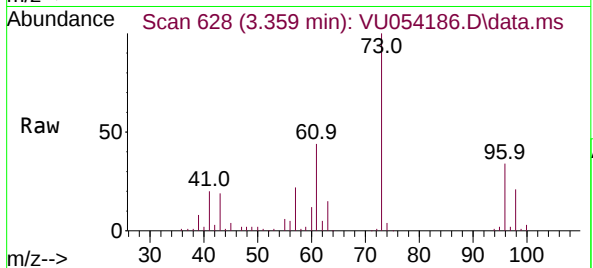
Tgt Ion: 73 Resp: 144339

Ion Ratio Lower Upper

73 100

43 19.1 14.6 22.0

57 21.4 17.1 25.7



#18

trans-1,2-Dichloroethene

Concen: 5.352 ug/L

RT: 3.350 min Scan# 625

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

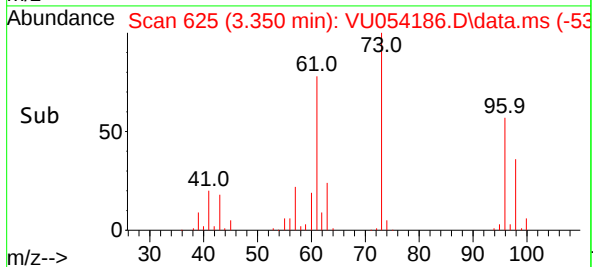
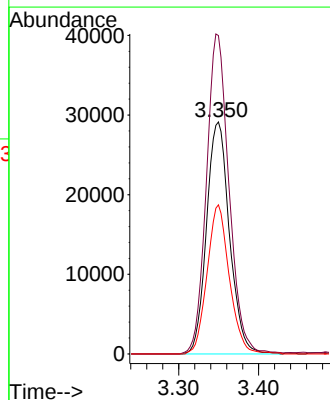
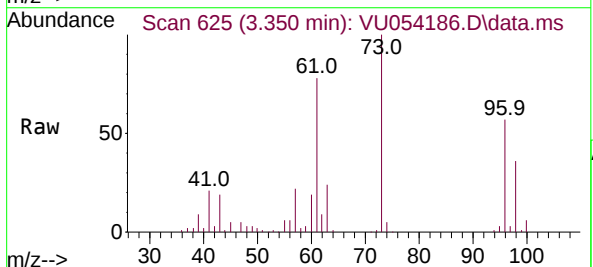
Tgt Ion: 96 Resp: 58198

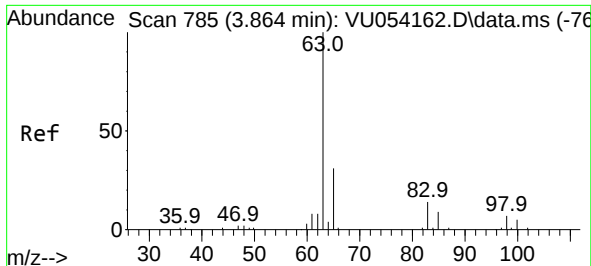
Ion Ratio Lower Upper

96 100

61 137.3 94.1 174.8

98 64.3 45.3 84.1

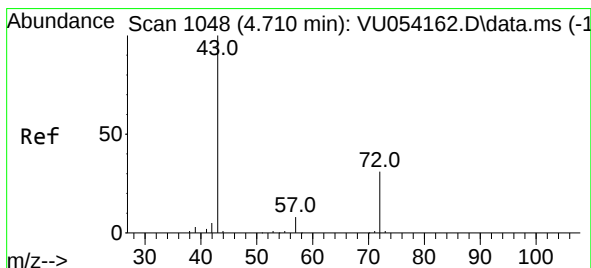
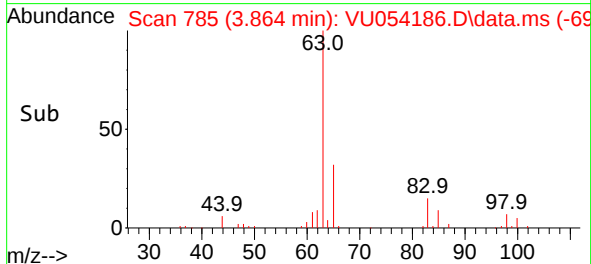
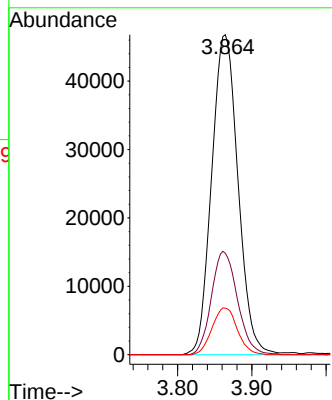
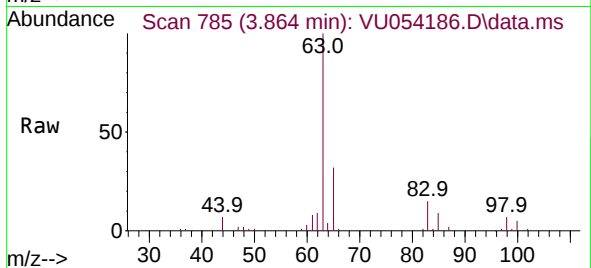




#19
1,1-Dichloroethane
Concen: 5.293 ug/L
RT: 3.864 min Scan# 785
Delta R.T. 0.000 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

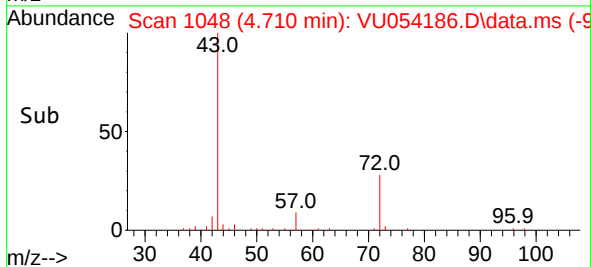
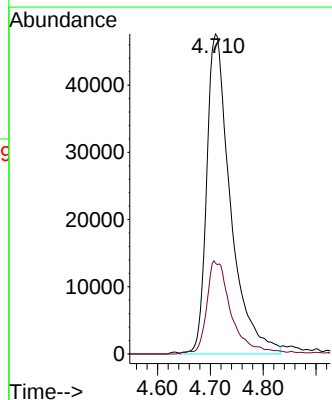
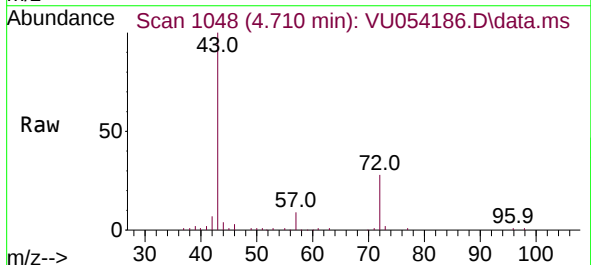
Instrument :
MSVOA_U
ClientSampleId :
VSTD005167

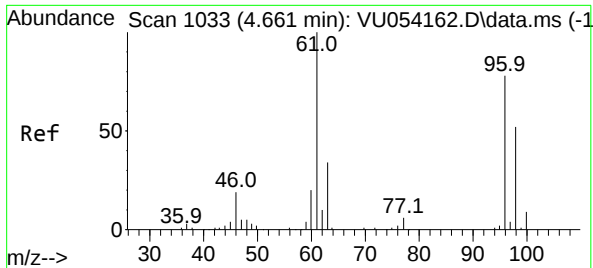
Tgt Ion: 63 Resp: 115255
Ion Ratio Lower Upper
63 100
65 31.7 20.7 38.5
83 14.5 10.1 18.7



#21
2-Butanone
Concen: 49.309 ug/L
RT: 4.710 min Scan# 1048
Delta R.T. 0.000 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

Tgt Ion: 43 Resp: 149215
Ion Ratio Lower Upper
43 100
72 30.0 14.2 42.8



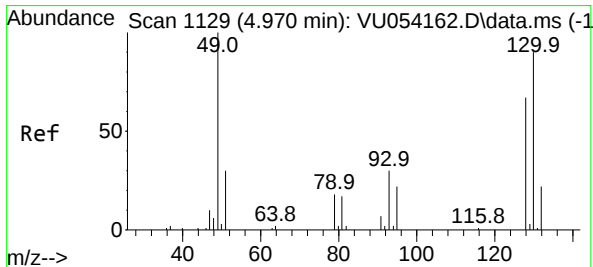
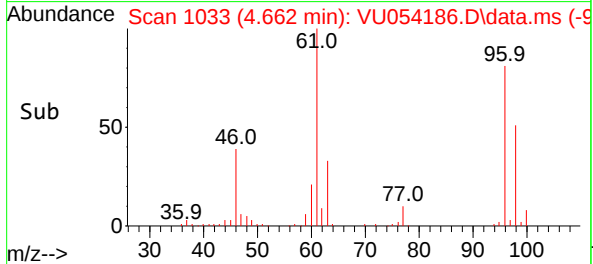
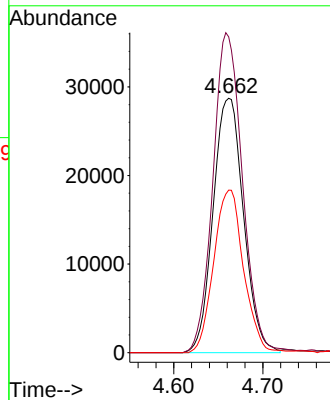
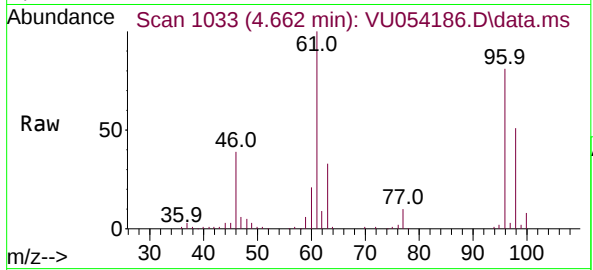


#22
 cis-1,2-Dichloroethene
 Concen: 5.364 ug/L
 RT: 4.662 min Scan# 1033
 Delta R.T. 0.000 min
 Lab File: VU054186.D
 Acq: 18 May 2023 23:42

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD005167

Tgt Ion: 96 Resp: 68197

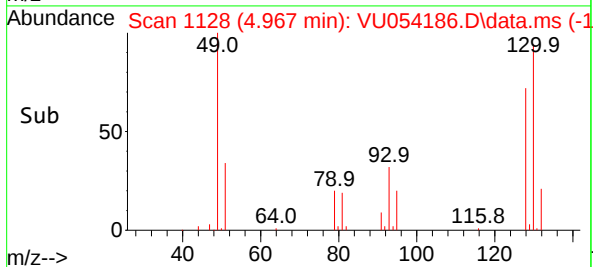
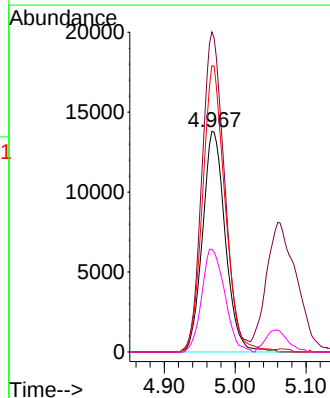
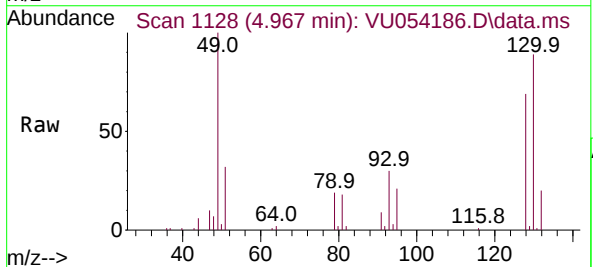
Ion	Ratio	Lower	Upper
96	100		
61	124.1	85.0	157.8
98	63.9	45.8	85.0

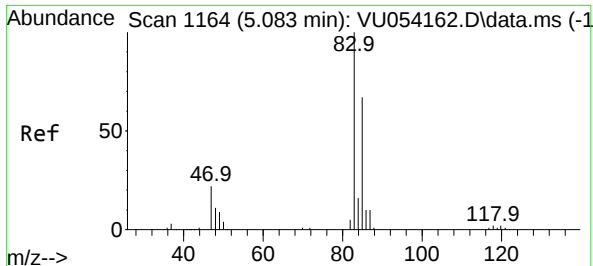


#23
 Bromochloromethane
 Concen: 5.522 ug/L
 RT: 4.967 min Scan# 1128
 Delta R.T. -0.003 min
 Lab File: VU054186.D
 Acq: 18 May 2023 23:42

Tgt Ion: 128 Resp: 30673

Ion	Ratio	Lower	Upper
128	100		
49	145.1	100.9	187.3
130	129.8	93.2	173.0
51	46.6	38.9	58.3





#25

Chloroform

Concen: 5.184 ug/L

RT: 5.080 min Scan# 1164

Delta R.T. -0.003 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

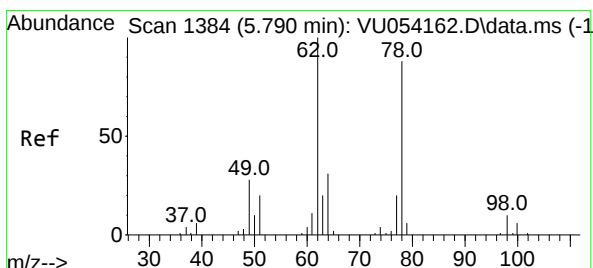
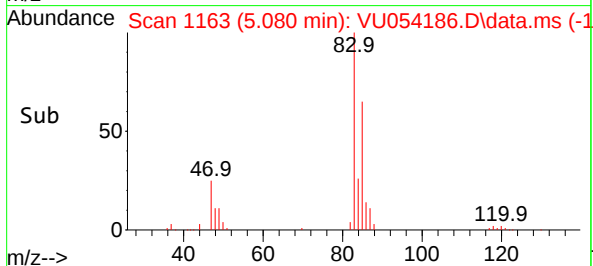
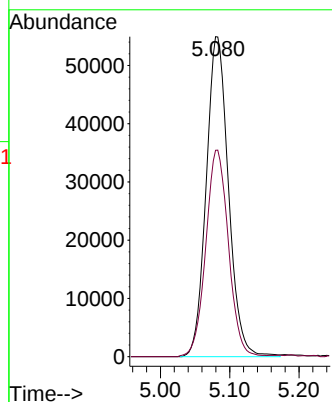
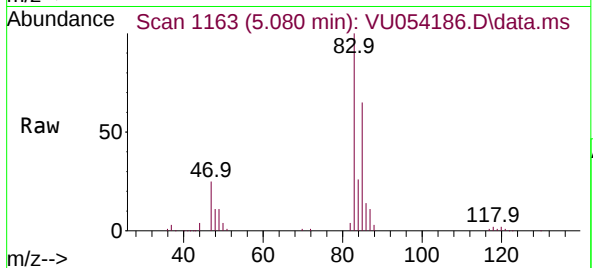
VSTD005167

Tgt Ion: 83 Resp: 122430

Ion Ratio Lower Upper

83 100

85 64.5 46.8 87.0



#27

1,2-Dichloroethane

Concen: 5.203 ug/L

RT: 5.787 min Scan# 1383

Delta R.T. -0.003 min

Lab File: VU054186.D

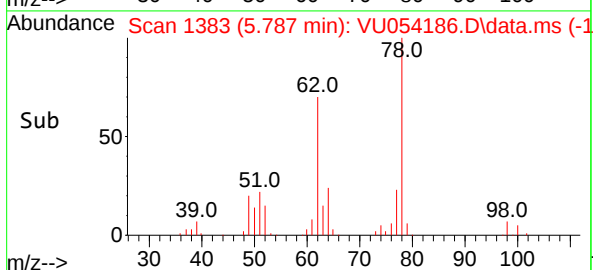
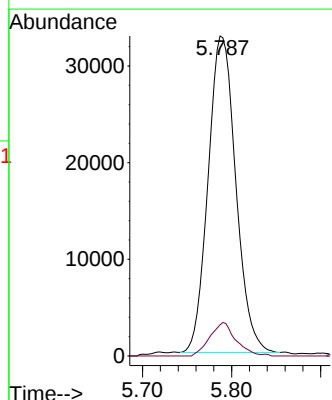
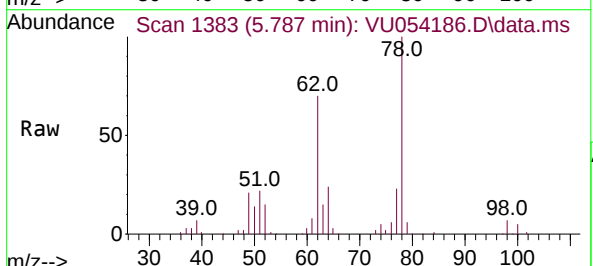
Acq: 18 May 2023 23:42

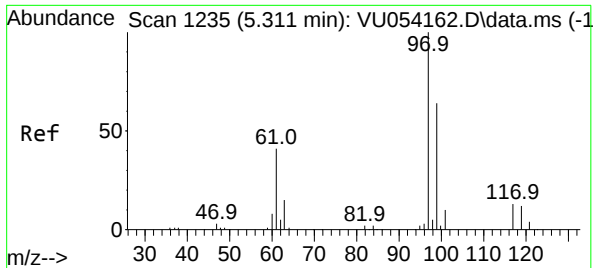
Tgt Ion: 62 Resp: 70653

Ion Ratio Lower Upper

62 100

98 9.7 7.6 11.4

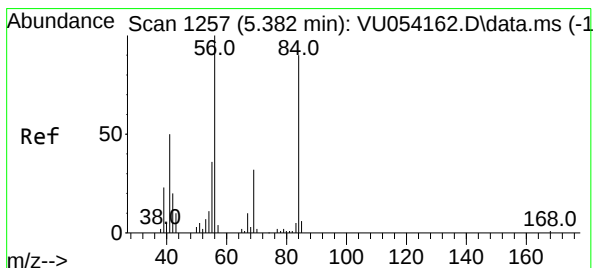
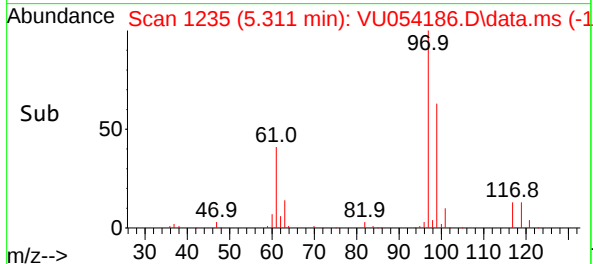
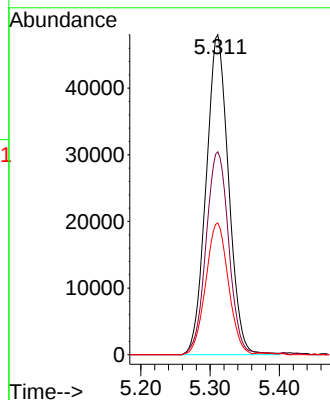
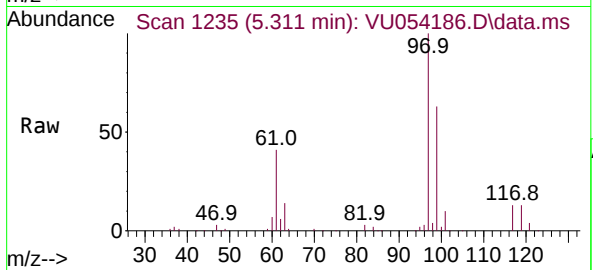




#29
1,1,1-Trichloroethane
Concen: 5.142 ug/L
RT: 5.311 min Scan# 1235
Delta R.T. 0.000 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

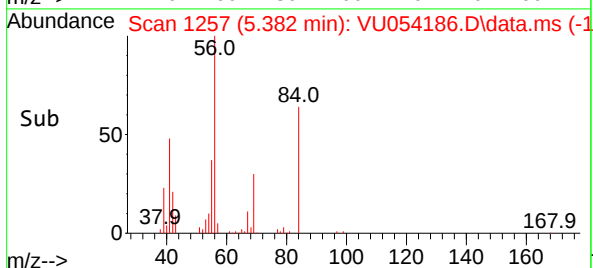
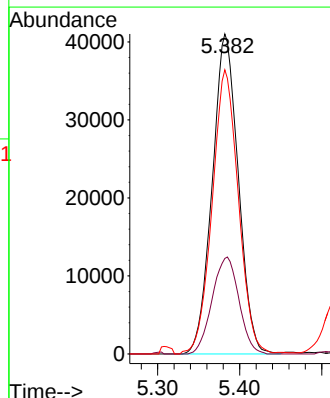
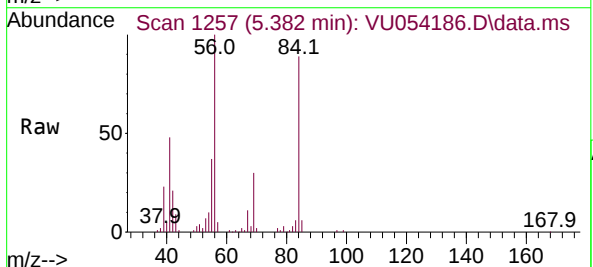
Instrument :
MSVOA_U
ClientSampleId :
VSTD005167

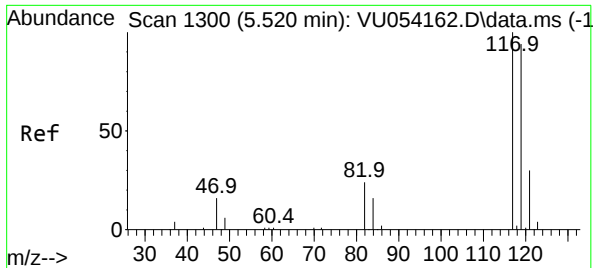
Tgt Ion: 97 Resp: 108198
Ion Ratio Lower Upper
97 100
99 64.3 51.8 77.6
61 41.6 33.4 50.2



#30
Cyclohexane
Concen: 5.284 ug/L
RT: 5.382 min Scan# 1257
Delta R.T. 0.000 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

Tgt Ion: 56 Resp: 90492
Ion Ratio Lower Upper
56 100
69 31.1 26.2 39.4
84 89.4 74.2 111.4

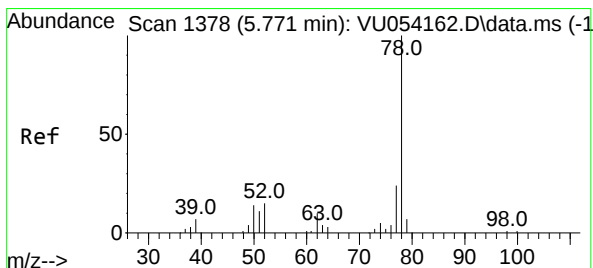
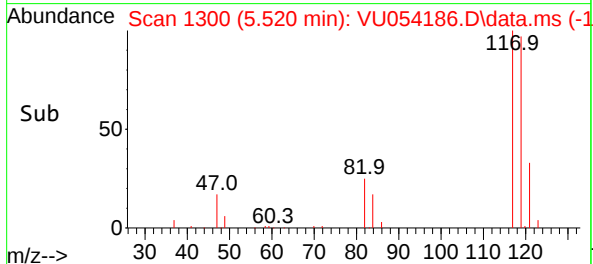
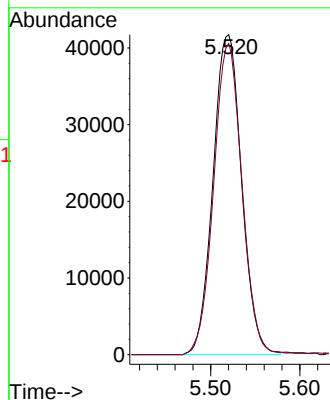
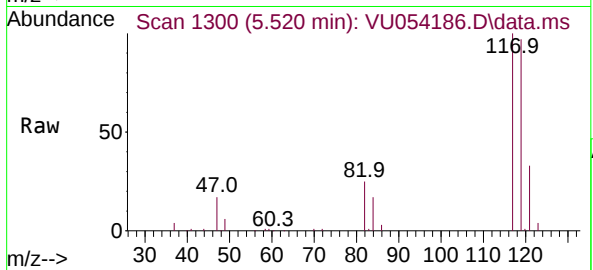




#31
Carbon tetrachloride
Concen: 5.102 ug/L
RT: 5.520 min Scan# 111
Delta R.T. 0.000 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

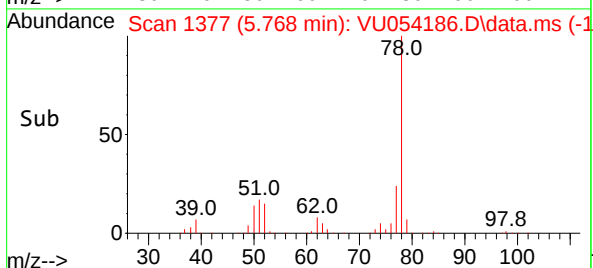
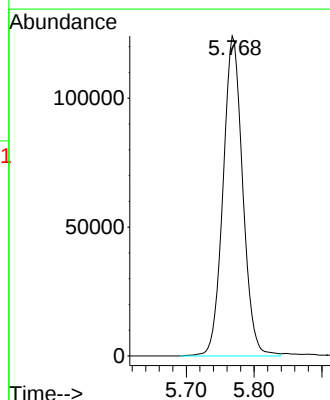
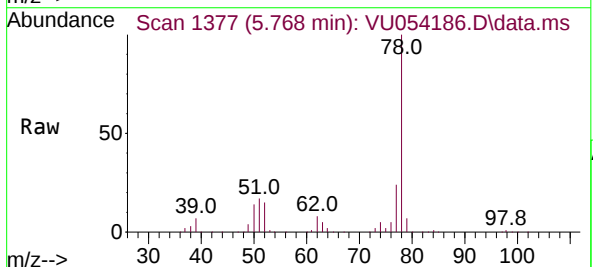
Instrument :
MSVOA_U
ClientSampleId :
VSTD005167

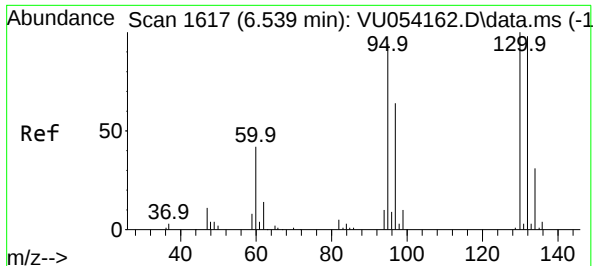
Tgt Ion:117 Resp: 93092
Ion Ratio Lower Upper
117 100
119 96.3 76.6 114.8



#33
Benzene
Concen: 5.259 ug/L
RT: 5.768 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

Tgt Ion: 78 Resp: 250196



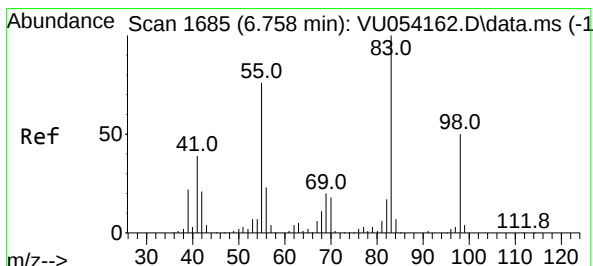
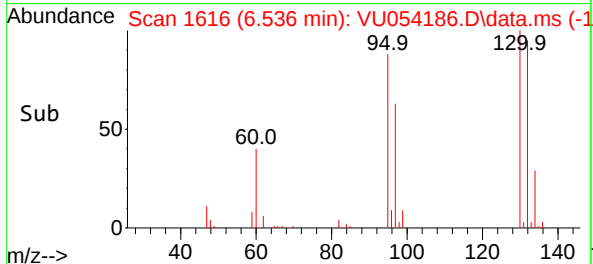
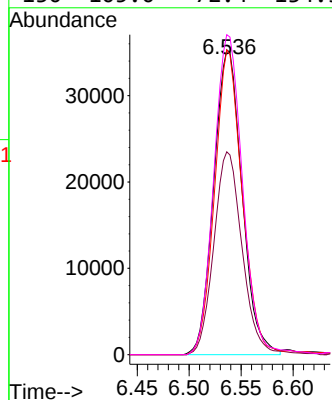
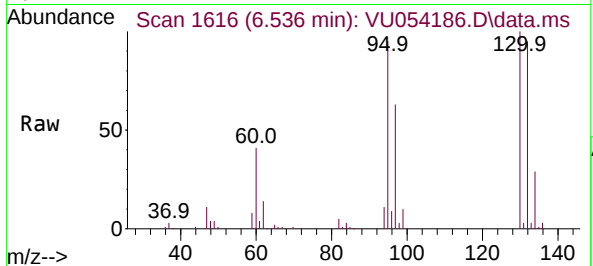


#34
Trichloroethene
Concen: 5.234 ug/L
RT: 6.536 min Scan# 1616
Delta R.T. -0.003 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

Instrument :
MSVOA_U
ClientSampleId :
VSTD005167

Tgt Ion: 95 Resp: 66971

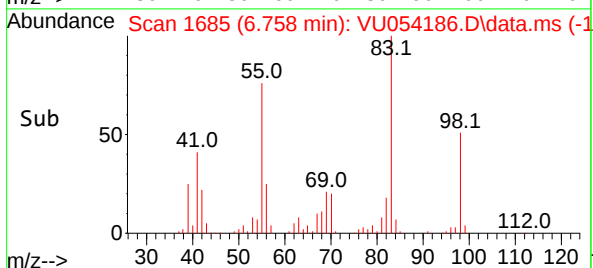
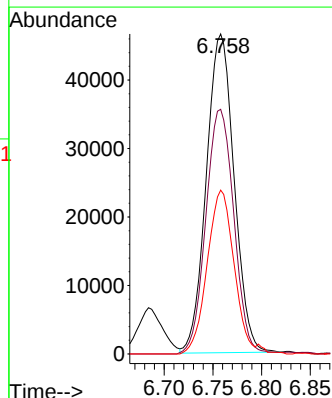
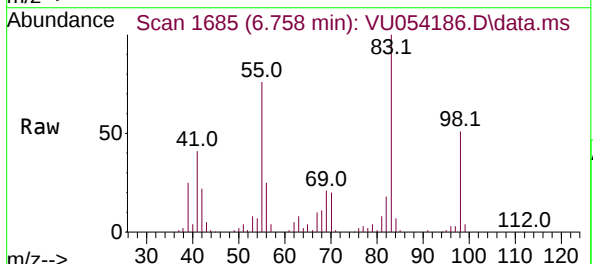
Ion	Ratio	Lower	Upper
95	100		
97	66.5	45.8	85.0
132	100.0	70.1	130.3
130	105.0	72.4	134.5

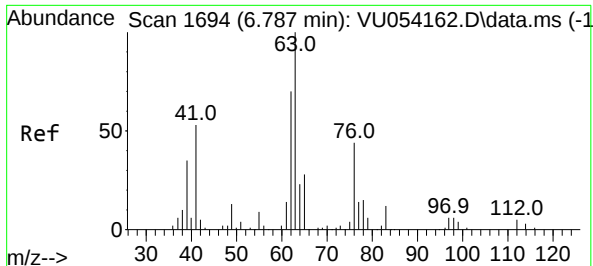


#35
Methylcyclohexane
Concen: 4.940 ug/L
RT: 6.758 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

Tgt Ion: 83 Resp: 92422

Ion	Ratio	Lower	Upper
83	100		
55	77.4	61.6	92.4
98	50.1	41.3	61.9





#37

1,2-Dichloropropane

Concen: 5.236 ug/L

RT: 6.784 min Scan# 1

Delta R.T. -0.003 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

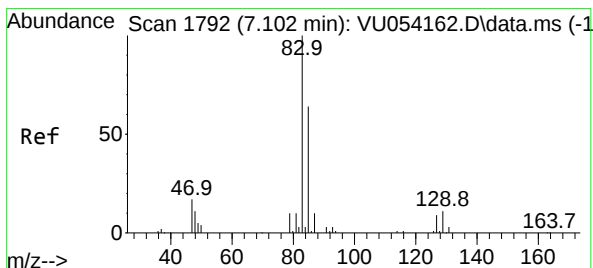
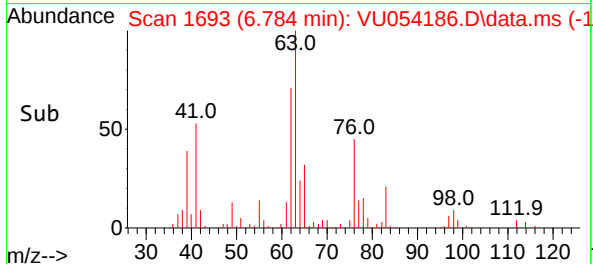
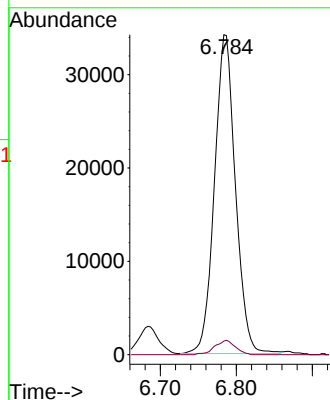
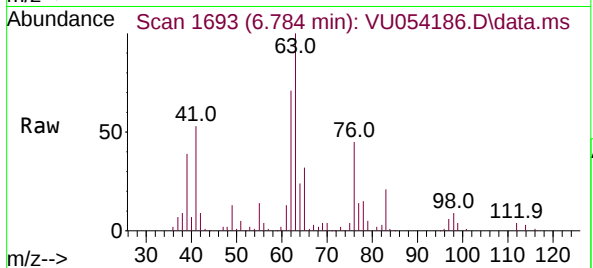
VSTD005167

Tgt Ion: 63 Resp: 65413

Ion Ratio Lower Upper

63 100

112 4.4 3.3 4.9



#38

Bromodichloromethane

Concen: 5.237 ug/L

RT: 7.099 min Scan# 1791

Delta R.T. -0.003 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

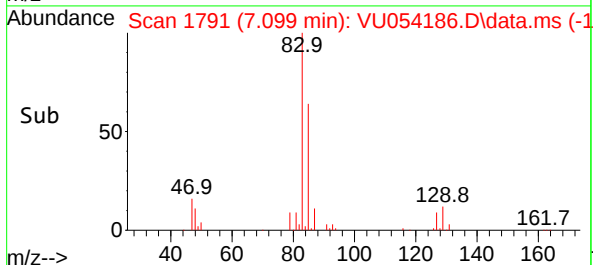
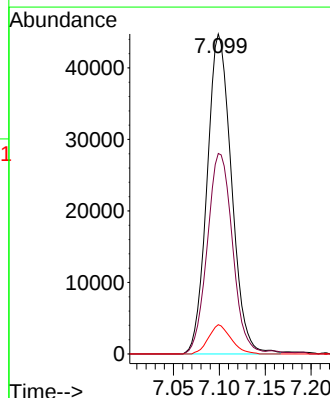
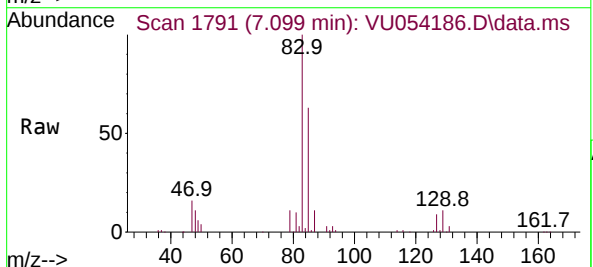
Tgt Ion: 83 Resp: 82842

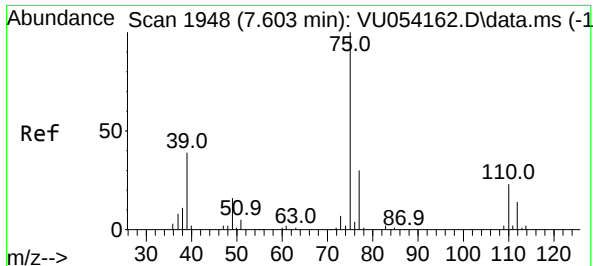
Ion Ratio Lower Upper

83 100

85 62.6 44.2 82.0

127 9.1 6.6 9.8





#39

cis-1,3-Dichloropropene

Concen: 5.216 ug/L

RT: 7.604 min Scan# 1948

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

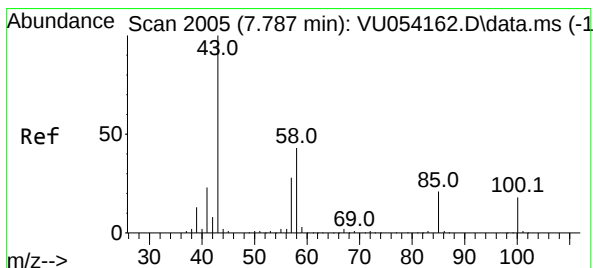
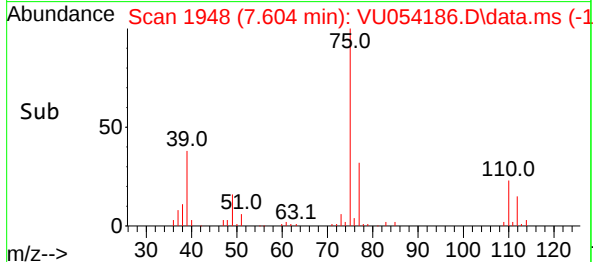
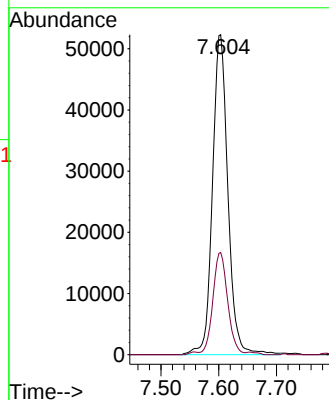
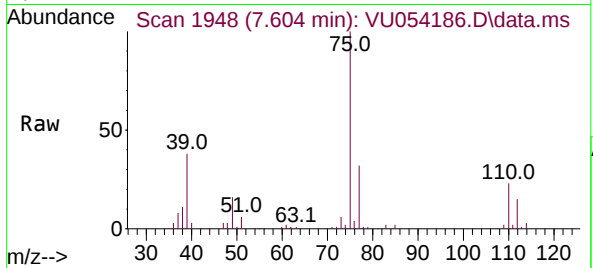
VSTD005167

Tgt Ion: 75 Resp: 97070

Ion Ratio Lower Upper

75 100

77 32.0 22.1 41.1



#40

4-Methyl-2-pentanone

Concen: 55.878 ug/L

RT: 7.787 min Scan# 2005

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

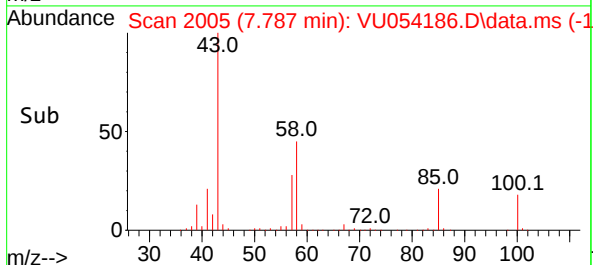
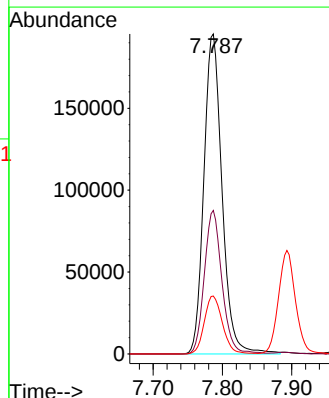
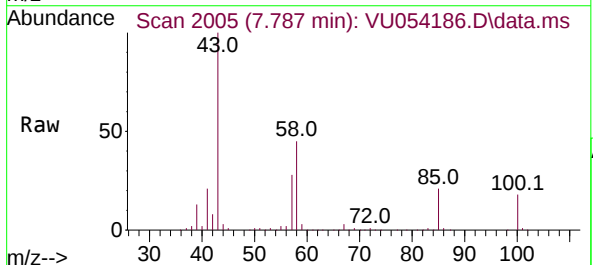
Tgt Ion: 43 Resp: 355332

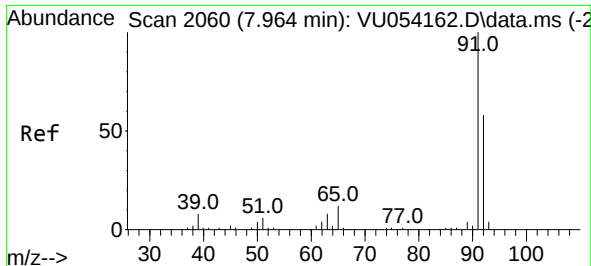
Ion Ratio Lower Upper

43 100

58 43.5 34.8 52.2

100 18.1 14.1 21.1





#42

Toluene

Concen: 5.412 ug/L

RT: 7.964 min Scan# 2060

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

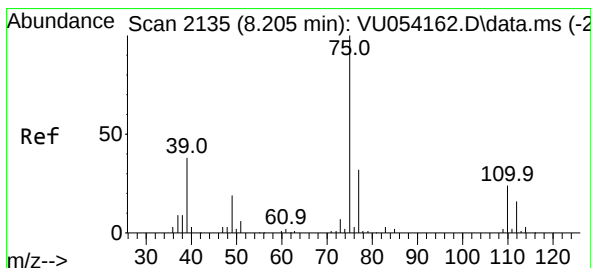
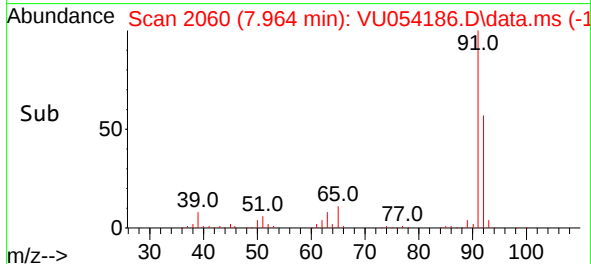
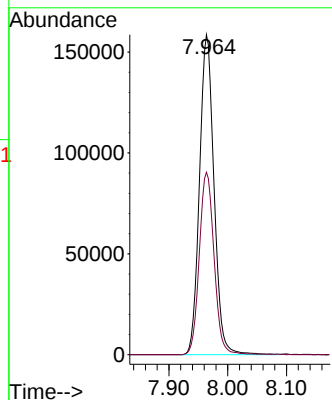
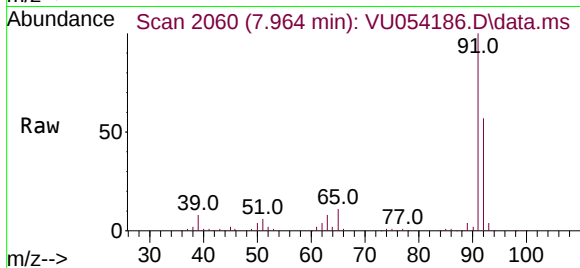
VSTD005167

Tgt Ion: 91 Resp: 272066

Ion Ratio Lower Upper

91 100

92 57.0 42.1 78.1



#44

trans-1,3-Dichloropropene

Concen: 5.124 ug/L

RT: 8.205 min Scan# 2135

Delta R.T. 0.000 min

Lab File: VU054186.D

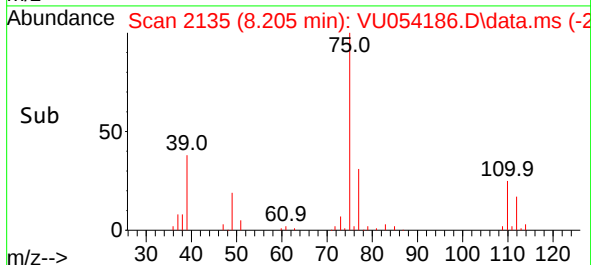
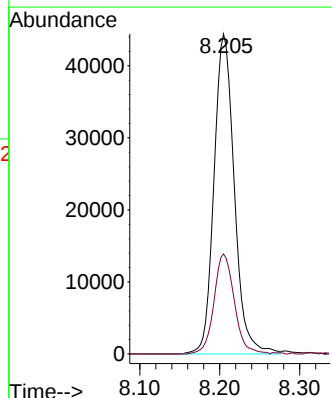
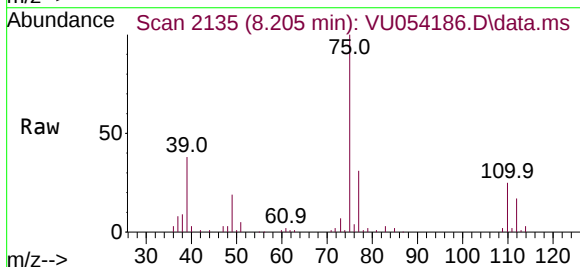
Acq: 18 May 2023 23:42

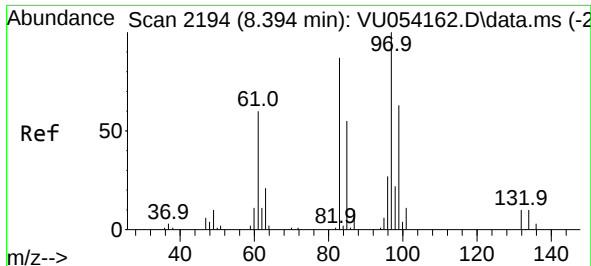
Tgt Ion: 75 Resp: 78276

Ion Ratio Lower Upper

75 100

77 31.3 20.8 38.6





#45

1,1,2-Trichloroethane

Concen: 5.360 ug/L

RT: 8.395 min Scan# 2194

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD005167

Tgt Ion: 97 Resp: 48255

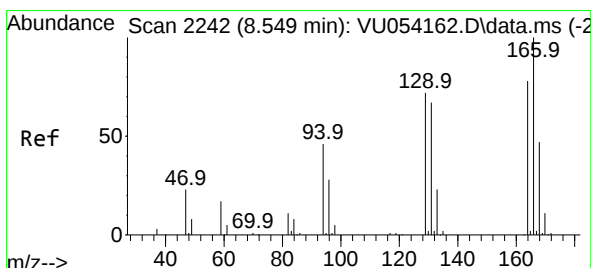
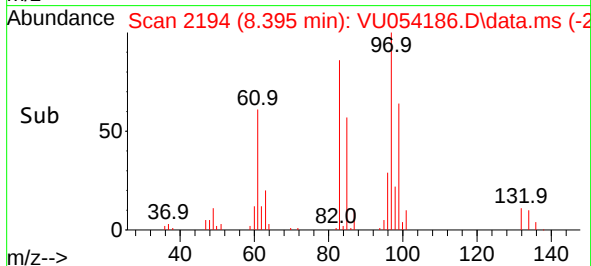
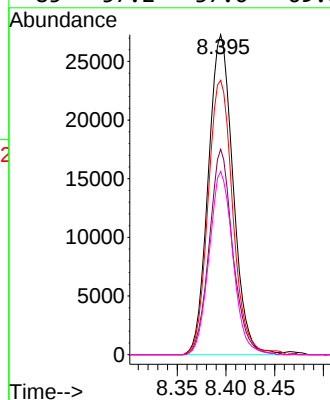
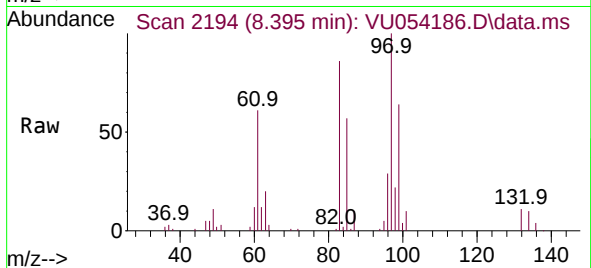
Ion Ratio Lower Upper

97 100

99 64.2 43.0 79.8

83 85.7 59.1 109.9

85 57.2 37.6 69.8



#47

Tetrachloroethene

Concen: 5.113 ug/L

RT: 8.549 min Scan# 2242

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Tgt Ion:164 Resp: 53767

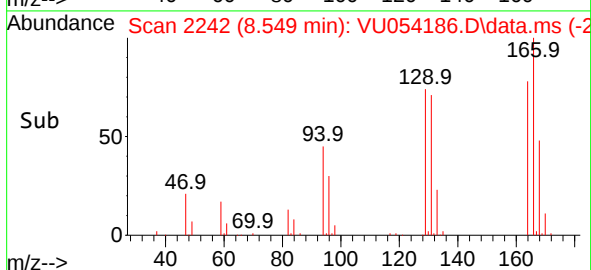
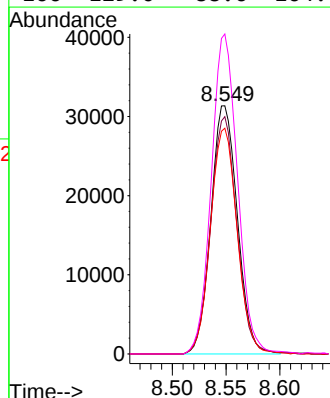
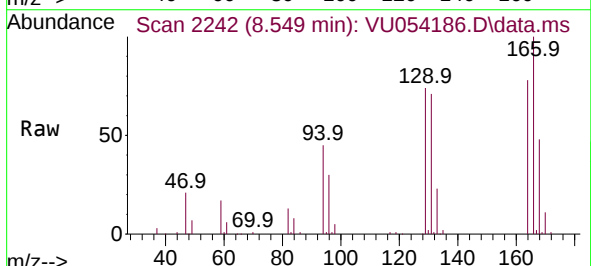
Ion Ratio Lower Upper

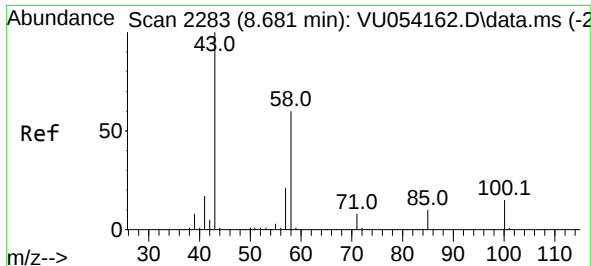
164 100

129 95.7 63.3 117.7

131 91.0 61.0 113.4

166 129.0 88.6 164.6

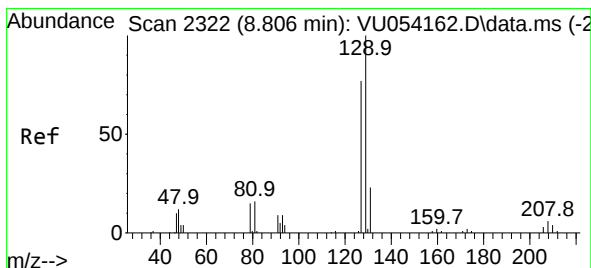
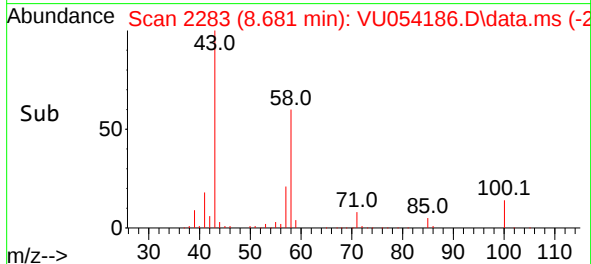
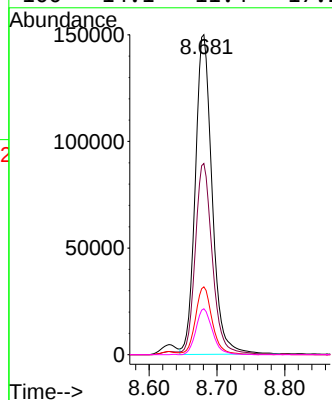
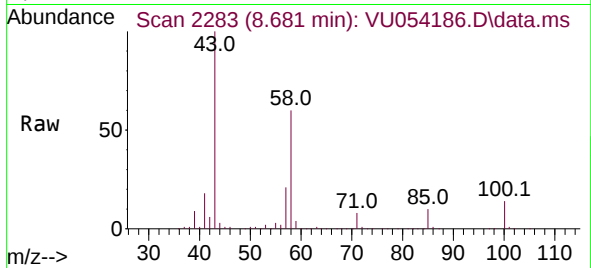




#48
2-Hexanone
Concen: 53.787 ug/L
RT: 8.681 min Scan# 21
Delta R.T. 0.000 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

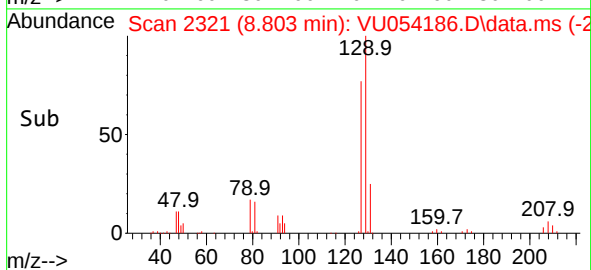
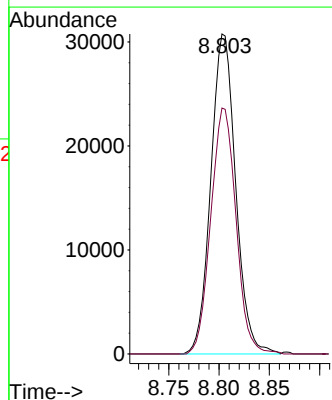
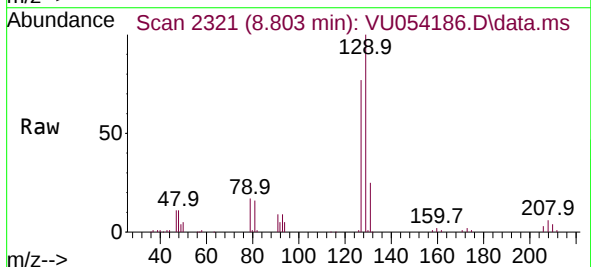
Instrument :
MSVOA_U
ClientSampleId :
VSTD005167

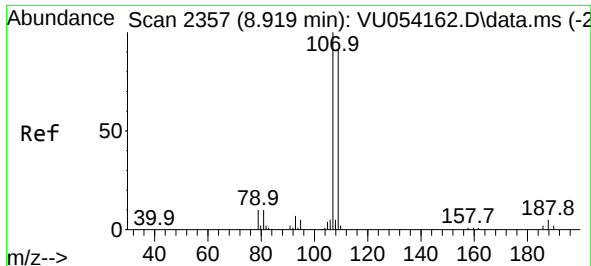
Tgt Ion: 43	Resp: 258605
Ion Ratio	Lower Upper
43 100	
58 59.9	48.6 72.8
57 21.2	16.7 25.1
100 14.1	11.4 17.2



#49
Dibromochloromethane
Concen: 5.263 ug/L
RT: 8.803 min Scan# 2321
Delta R.T. -0.003 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

Tgt Ion:129	Resp: 52897		
Ion Ratio	Lower	Upper	
129 100			
127 76.9	53.6	99.6	





#50

1,2-Dibromoethane

Concen: 5.365 ug/L

RT: 8.919 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD005167

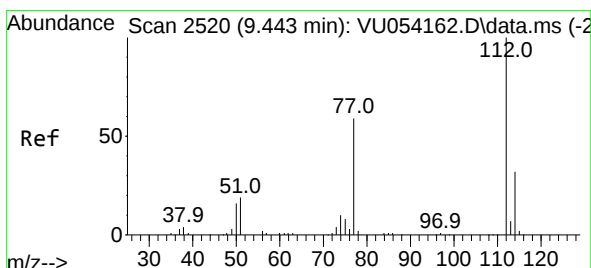
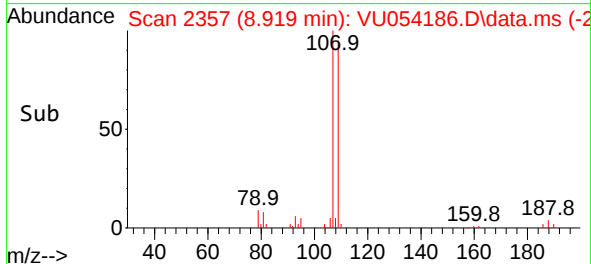
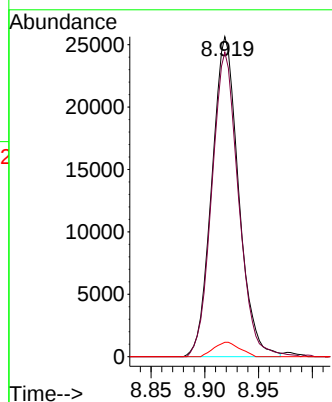
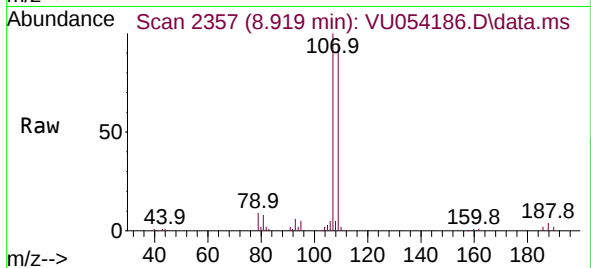
Tgt Ion:107 Resp: 44388

Ion Ratio Lower Upper

107 100

109 95.2 66.4 123.2

188 4.5 3.8 5.6



#51

Chlorobenzene

Concen: 5.270 ug/L

RT: 9.443 min Scan# 2520

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

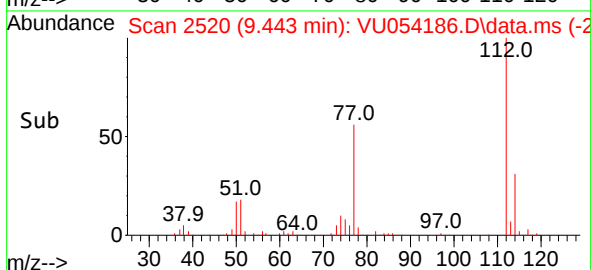
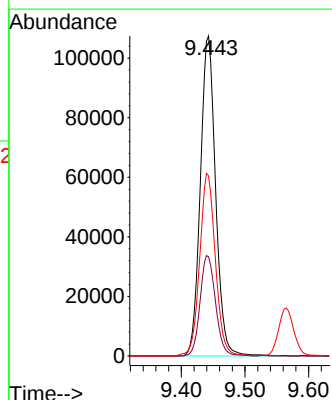
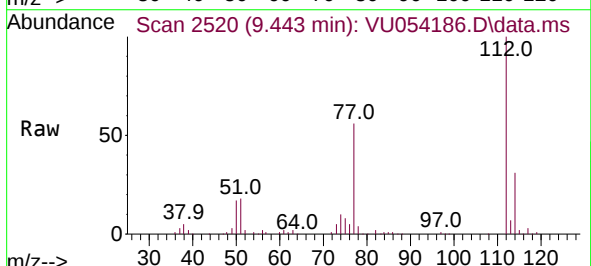
Tgt Ion:112 Resp: 179143

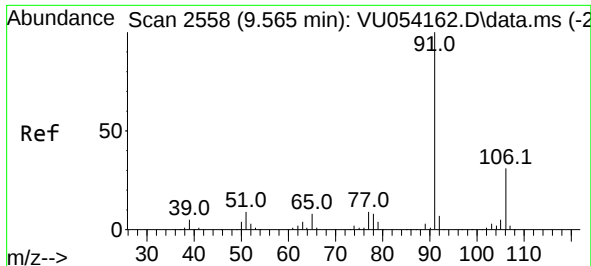
Ion Ratio Lower Upper

112 100

114 31.0 22.4 41.6

77 56.3 46.1 69.1

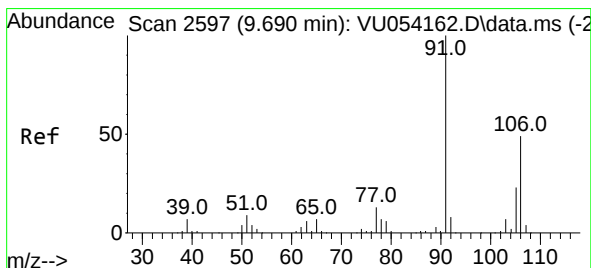
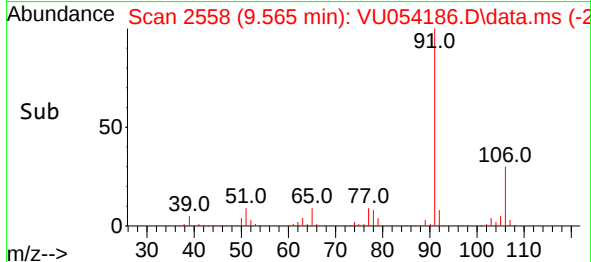
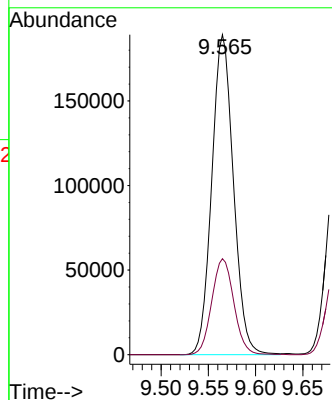
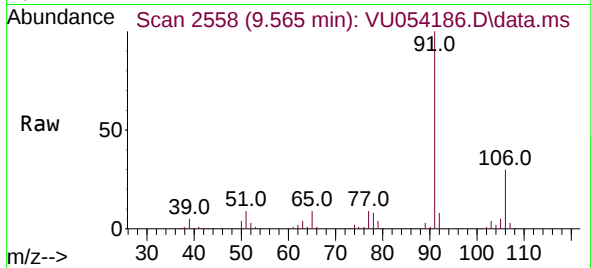




#52
Ethylbenzene
Concen: 5.375 ug/L
RT: 9.565 min Scan# 2558
Delta R.T. 0.000 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

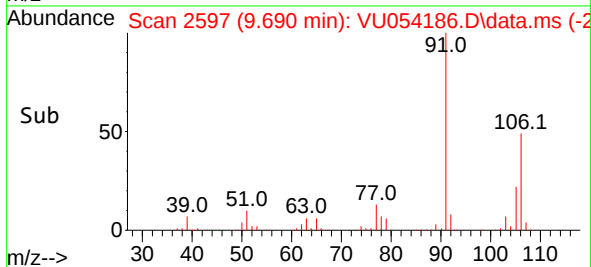
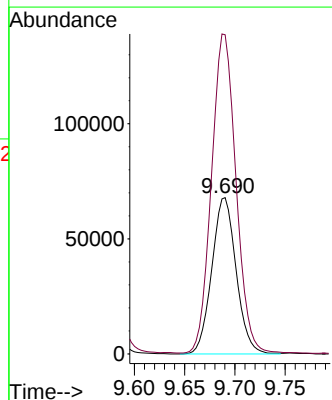
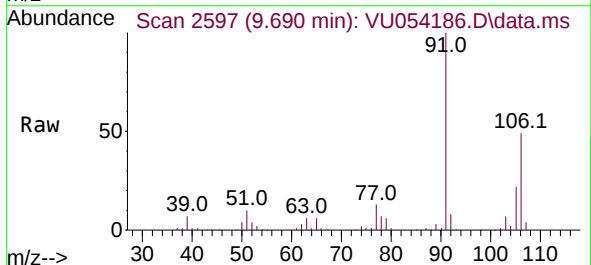
Instrument :
MSVOA_U
ClientSampleId :
VSTD005167

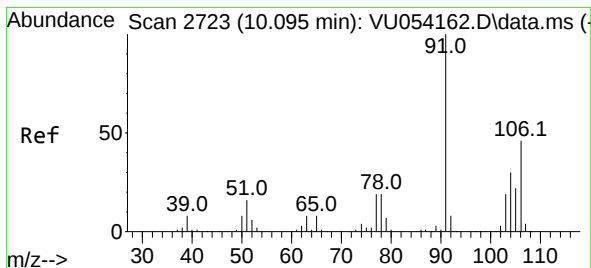
Tgt Ion: 91 Resp: 301109
Ion Ratio Lower Upper
91 100
106 30.0 21.3 39.5



#53
m,p-Xylene
Concen: 5.376 ug/L
RT: 9.690 min Scan# 2597
Delta R.T. 0.000 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

Tgt Ion: 106 Resp: 114396
Ion Ratio Lower Upper
106 100
91 204.3 146.3 271.7





#54

o-Xylene

Concen: 5.347 ug/L

RT: 10.095 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

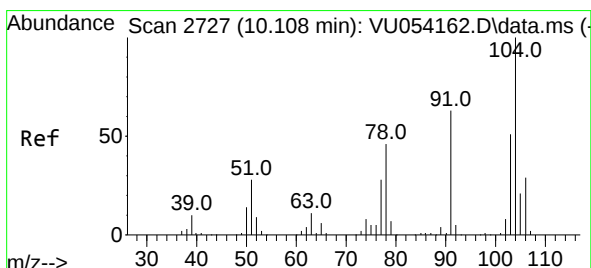
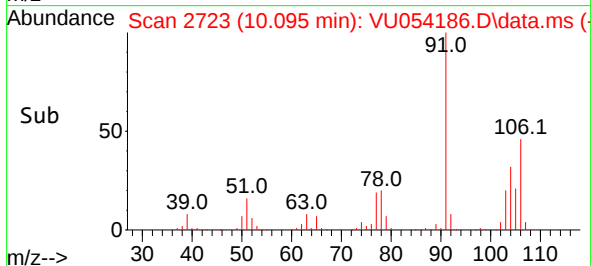
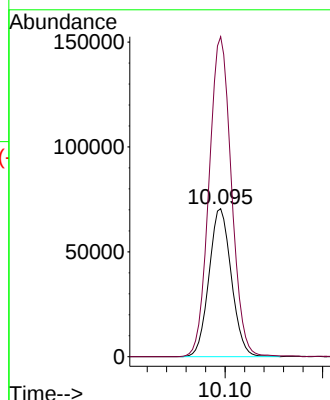
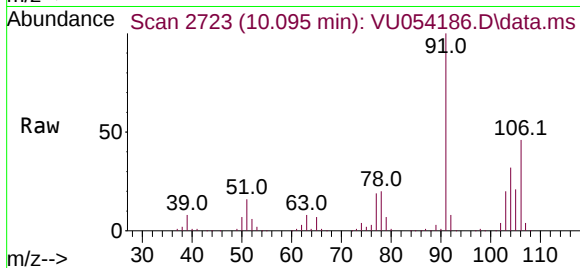
VSTD005167

Tgt Ion:106 Resp: 112361

Ion Ratio Lower Upper

106 100

91 216.1 153.6 285.3



#55

Styrene

Concen: 5.537 ug/L

RT: 10.108 min Scan# 2727

Delta R.T. 0.000 min

Lab File: VU054186.D

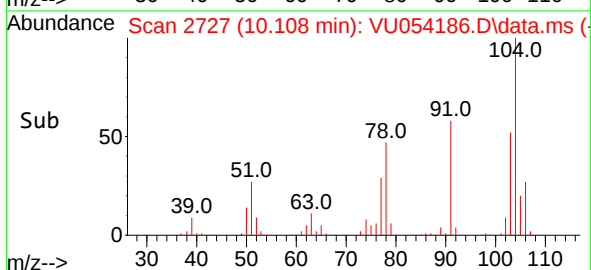
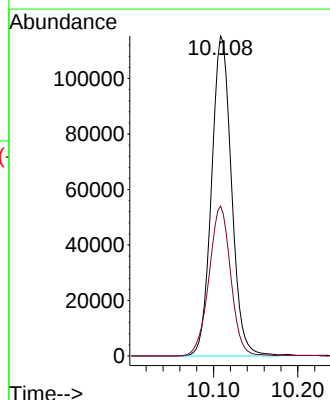
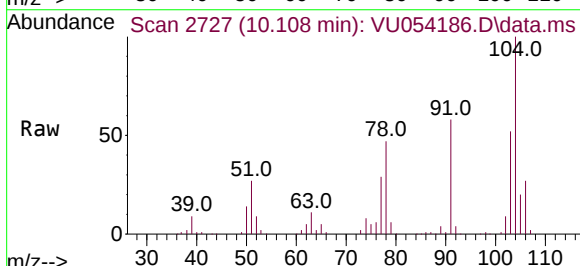
Acq: 18 May 2023 23:42

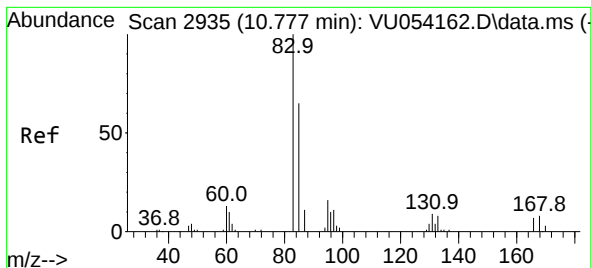
Tgt Ion:104 Resp: 190259

Ion Ratio Lower Upper

104 100

78 46.8 33.1 61.5





#57

1,1,2,2-Tetrachloroethane

Concen: 5.605 ug/L

RT: 10.777 min Scan# 2935

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD005167

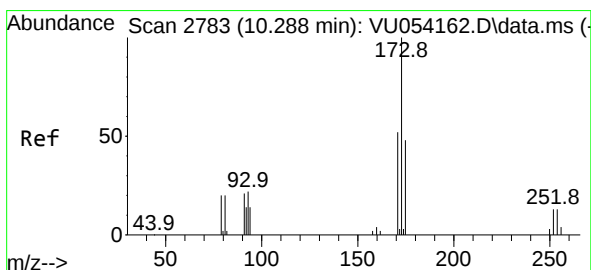
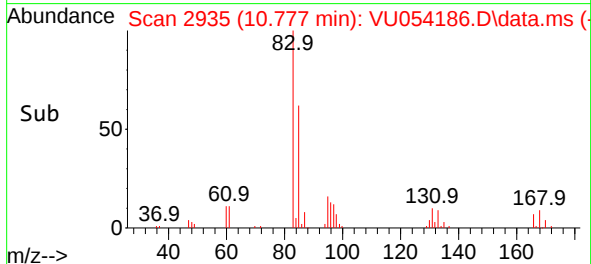
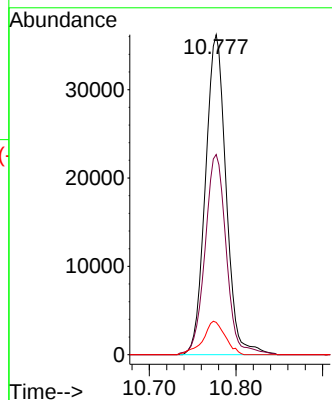
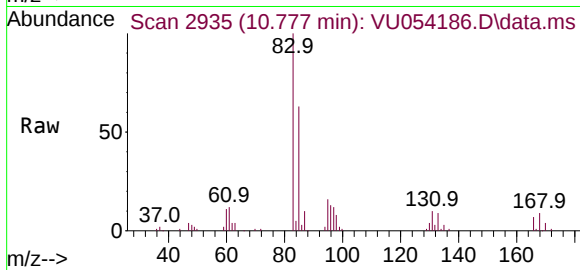
Tgt Ion: 83 Resp: 59923

Ion Ratio Lower Upper

83 100

85 62.5 44.8 83.2

131 10.1 8.1 12.1



#59

Bromoform

Concen: 5.254 ug/L

RT: 10.285 min Scan# 2782

Delta R.T. -0.003 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

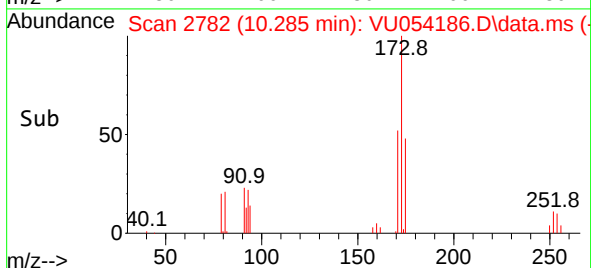
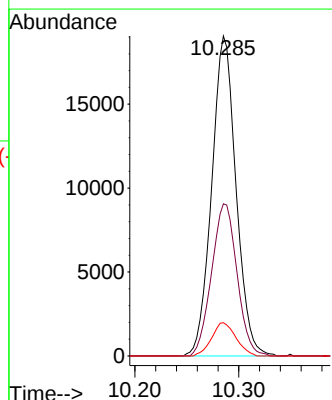
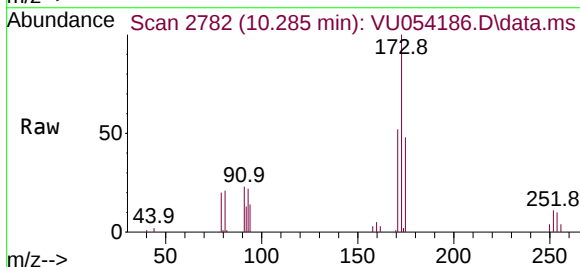
Tgt Ion: 173 Resp: 30986

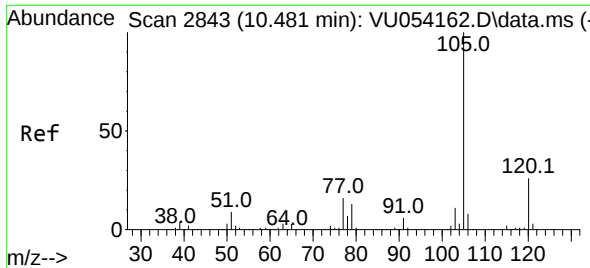
Ion Ratio Lower Upper

173 100

175 49.6 38.6 58.0

254 10.4 7.9 11.9

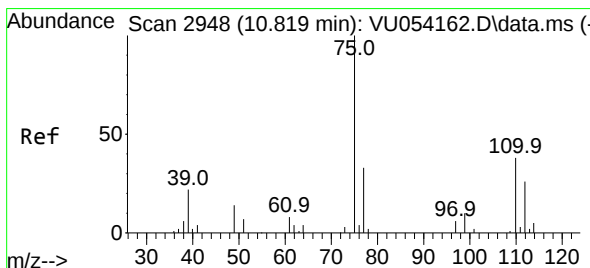
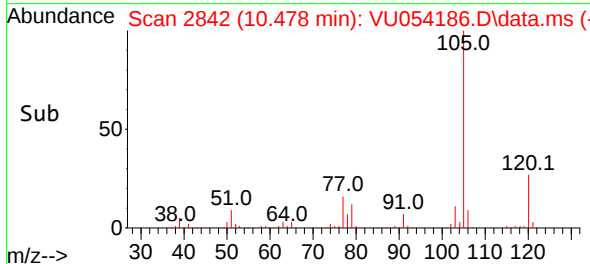
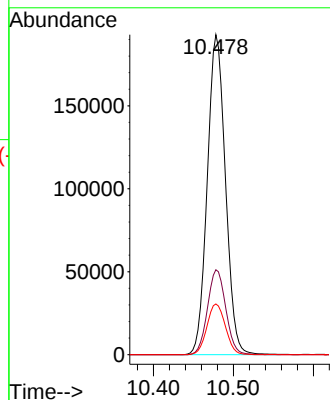
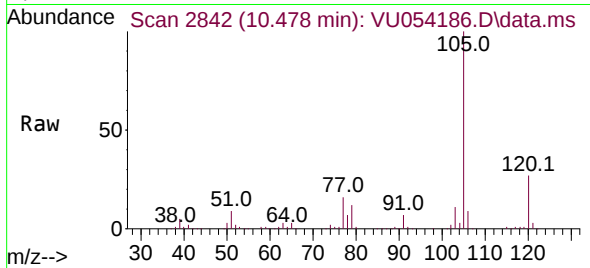




#60
Isopropylbenzene
Concen: 5.445 ug/L
RT: 10.478 min Scan# 2843
Delta R.T. -0.003 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

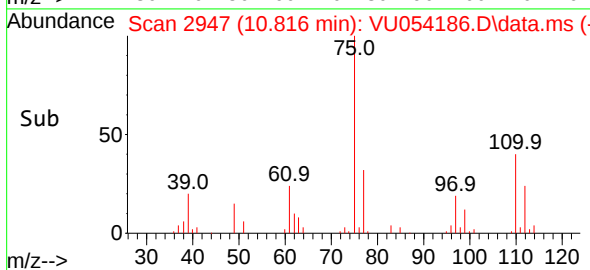
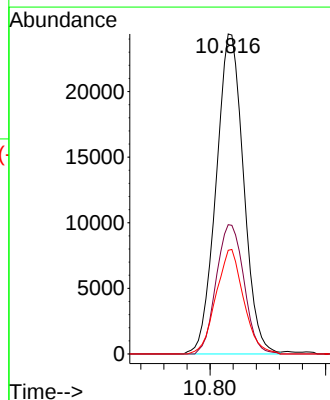
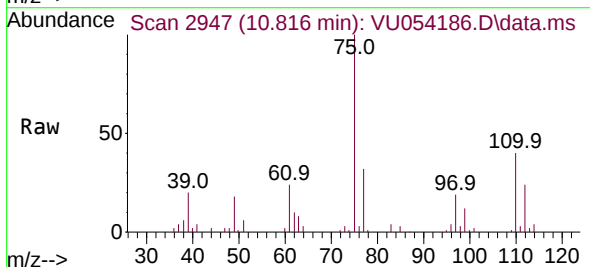
Instrument :
MSVOA_U
ClientSampleId :
VSTD005167

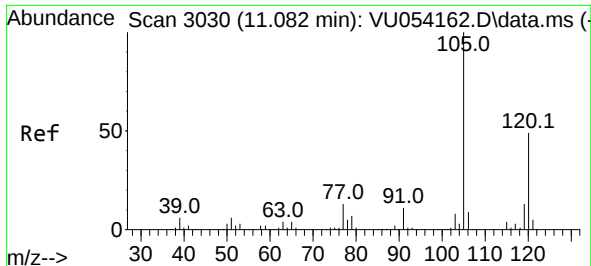
Tgt Ion:105 Resp: 304695
Ion Ratio Lower Upper
105 100
120 26.7 21.3 31.9
77 16.1 12.6 18.8



#61
1,2,3-Trichloropropane
Concen: 5.409 ug/L
RT: 10.816 min Scan# 2947
Delta R.T. -0.003 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

Tgt Ion: 75 Resp: 40219
Ion Ratio Lower Upper
75 100
110 40.8 32.3 48.5
77 32.9 26.3 39.5





#62

1,3,5-Trimethylbenzene

Concen: 5.453 ug/L

RT: 11.083 min Scan# 3030

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

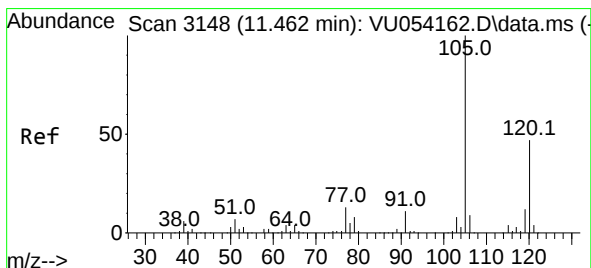
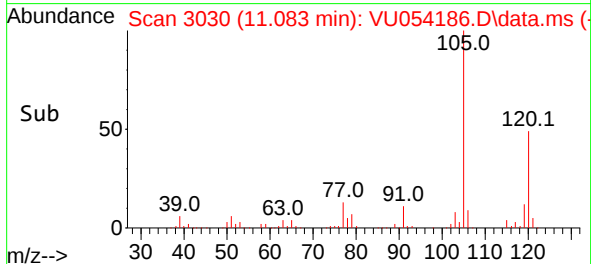
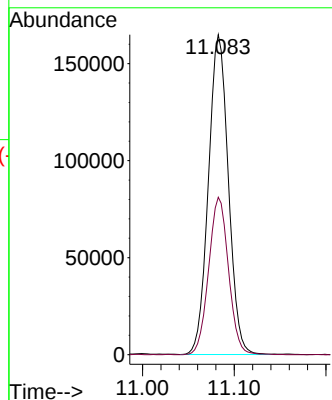
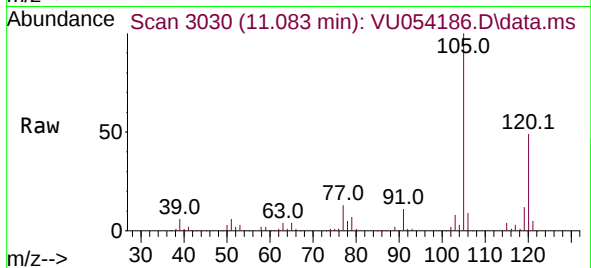
VSTD005167

Tgt Ion:105 Resp: 249066

Ion Ratio Lower Upper

105 100

120 49.1 39.4 59.0



#63

1,2,4-Trimethylbenzene

Concen: 5.637 ug/L

RT: 11.462 min Scan# 3148

Delta R.T. 0.000 min

Lab File: VU054186.D

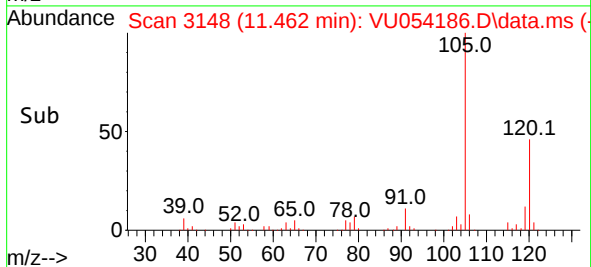
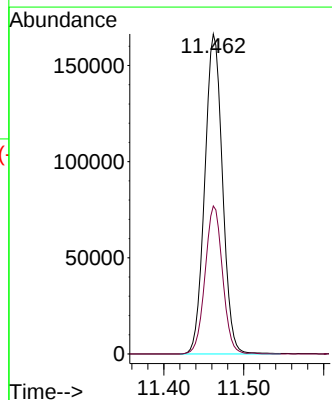
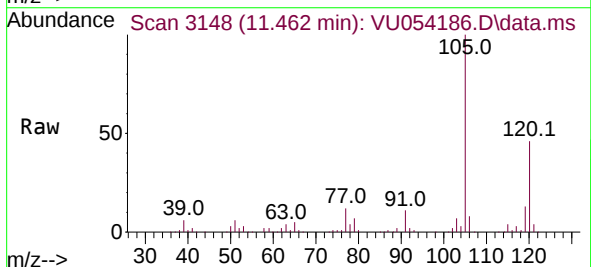
Acq: 18 May 2023 23:42

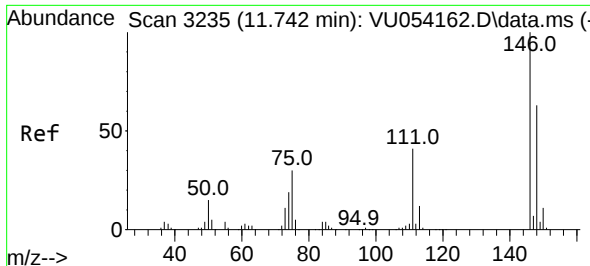
Tgt Ion:105 Resp: 256993

Ion Ratio Lower Upper

105 100

120 45.5 36.9 55.3

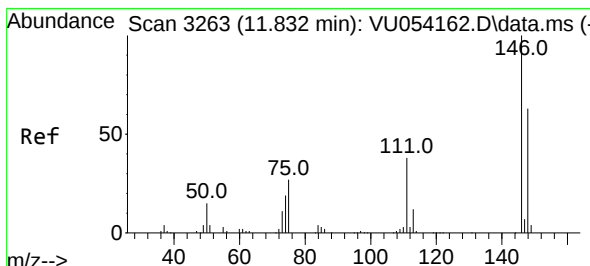
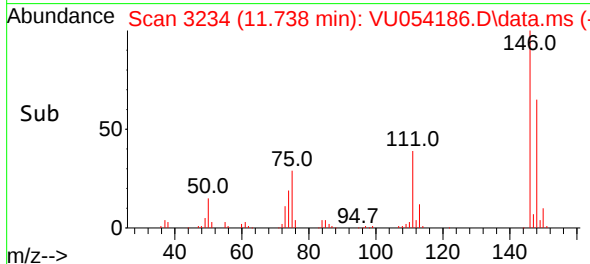
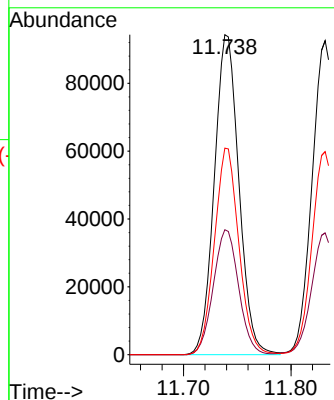
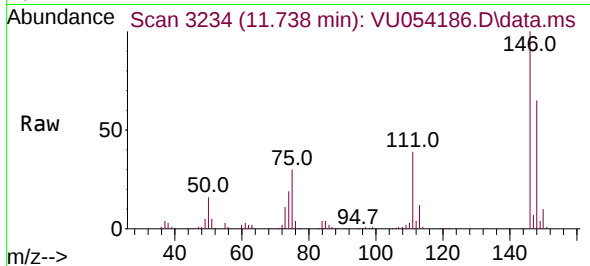




#64
1,3-Dichlorobenzene
Concen: 5.369 ug/L
RT: 11.738 min Scan# 31
Delta R.T. -0.003 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

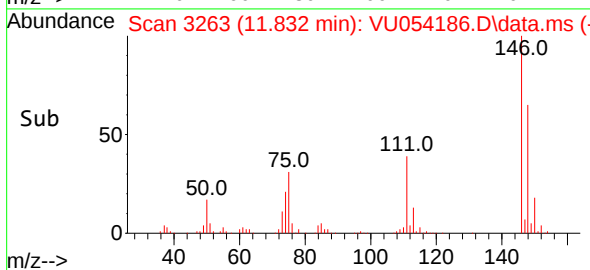
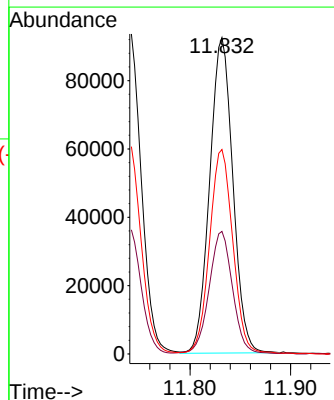
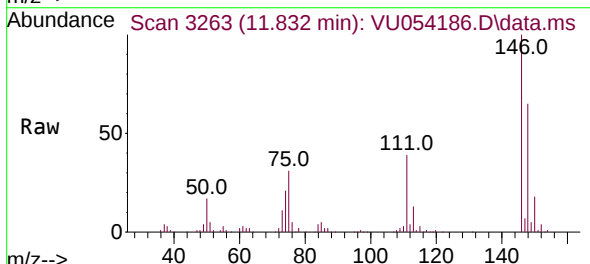
Instrument :
MSVOA_U
ClientSampleId :
VSTD005167

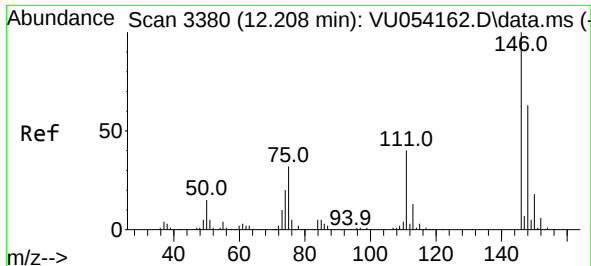
Tgt Ion:146 Resp: 149958
Ion Ratio Lower Upper
146 100
111 39.0 27.8 51.6
148 64.5 44.4 82.4



#65
1,4-Dichlorobenzene
Concen: 5.327 ug/L
RT: 11.832 min Scan# 3263
Delta R.T. 0.000 min
Lab File: VU054186.D
Acq: 18 May 2023 23:42

Tgt Ion:146 Resp: 147807
Ion Ratio Lower Upper
146 100
111 38.7 26.6 49.4
148 64.6 43.8 81.3





#67

1,2-Dichlorobenzene

Concen: 5.446 ug/L

RT: 12.208 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD005167

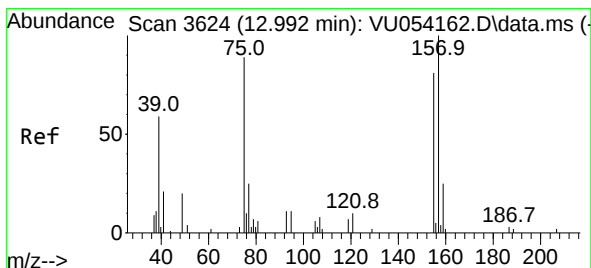
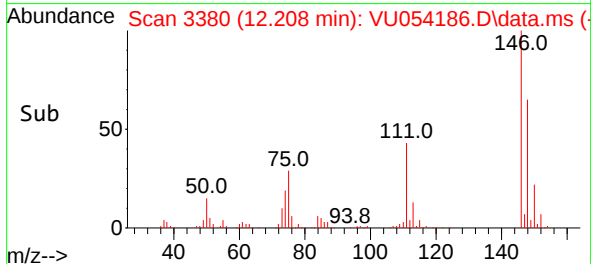
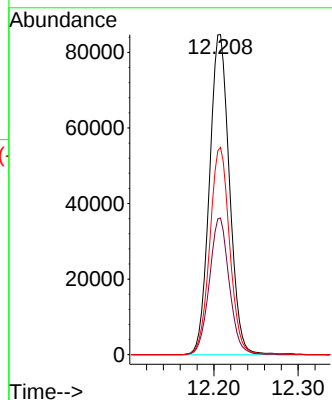
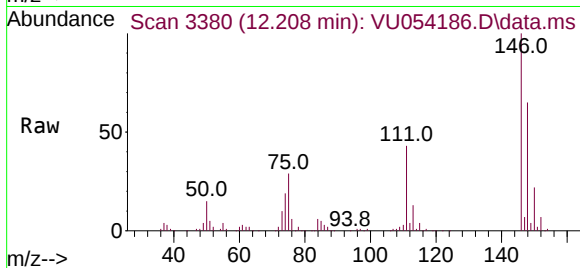
Tgt Ion:146 Resp: 139586

Ion Ratio Lower Upper

146 100

111 42.7 33.0 49.4

148 64.8 50.5 75.7



#68

1,2-Dibromo-3-chloropropane

Concen: 5.880 ug/L

RT: 12.992 min Scan# 3624

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

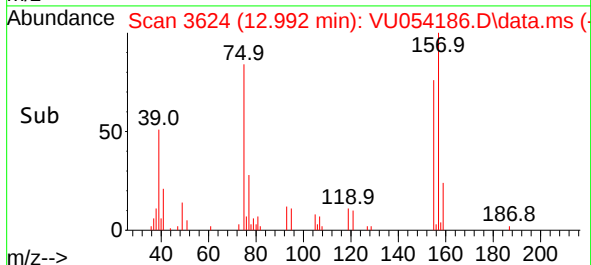
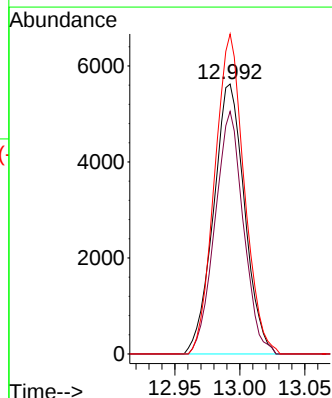
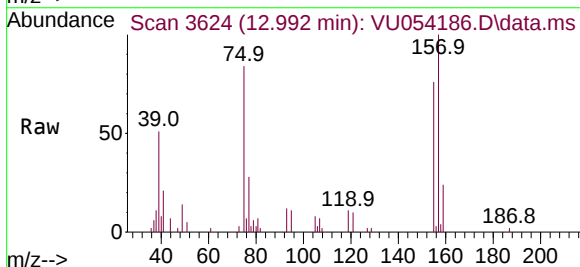
Tgt Ion: 75 Resp: 9347

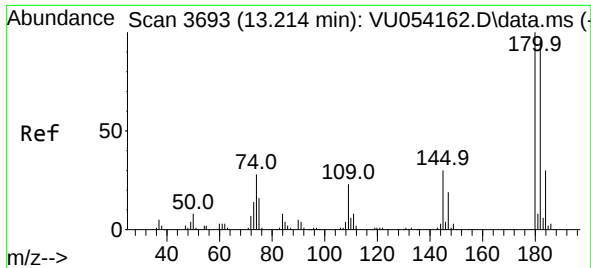
Ion Ratio Lower Upper

75 100

155 89.8 62.7 94.1

157 118.5 77.0 115.4#

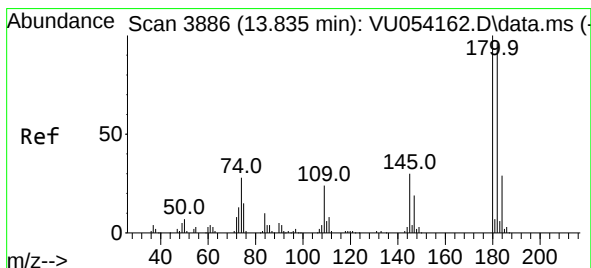
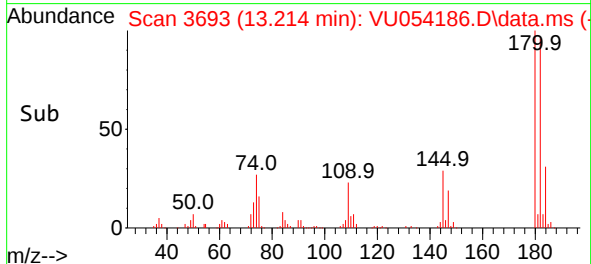
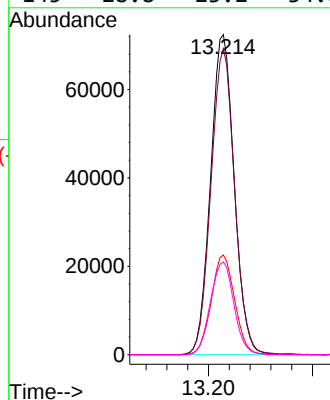
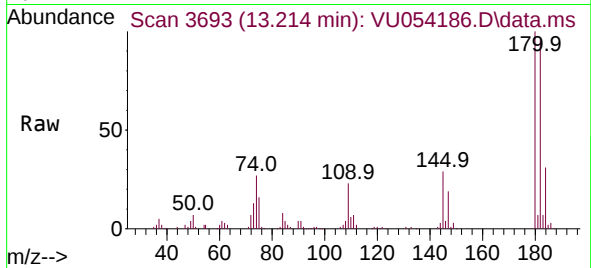




#69
 1,3,5-Trichlorobenzene
 Concen: 5.483 ug/L
 RT: 13.214 min Scan# 3693
 Delta R.T. 0.000 min
 Lab File: VU054186.D
 Acq: 18 May 2023 23:42

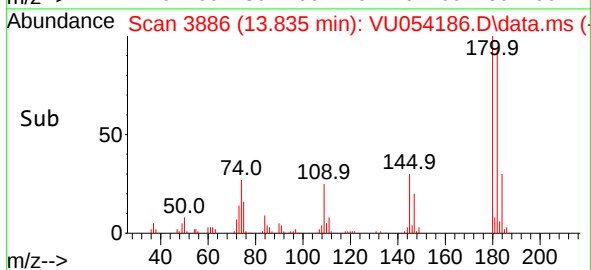
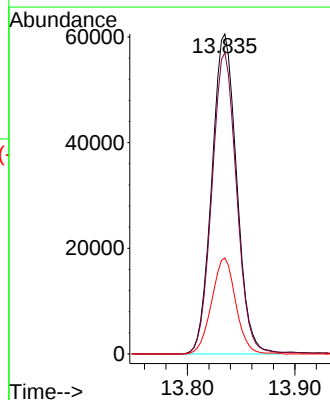
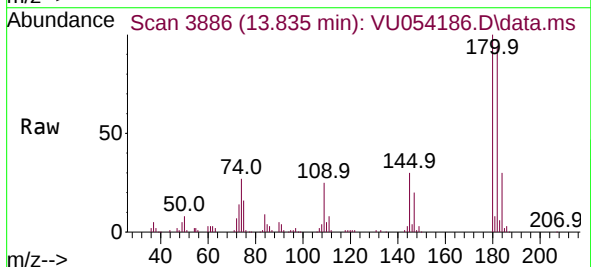
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD005167

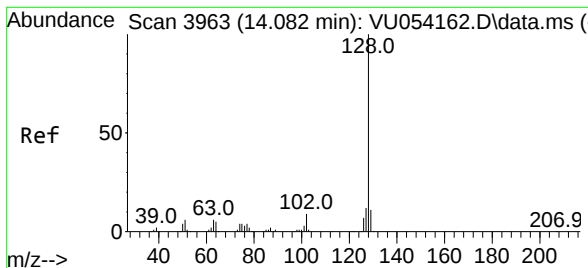
Tgt Ion:	180	Resp:	114256
Ion Ratio	Lower	Upper	
180	100		
182	95.5	76.1	114.1
184	30.9	24.5	36.7
145	28.8	23.2	34.8



#70
 1,2,4-trichlorobenzene
 Concen: 5.637 ug/L
 RT: 13.835 min Scan# 3886
 Delta R.T. 0.000 min
 Lab File: VU054186.D
 Acq: 18 May 2023 23:42

Tgt Ion:	180	Resp:	97264
Ion Ratio	Lower	Upper	
180	100		
182	93.7	76.4	114.6
145	29.1	23.3	34.9





#71

Naphthalene

Concen: 6.207 ug/L

RT: 14.082 min Scan# 3963

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Instrument :

MSVOA_U

ClientSampleId :

VSTD005167

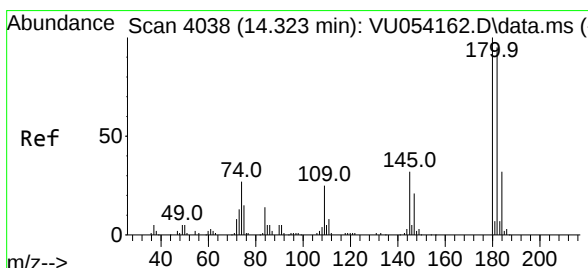
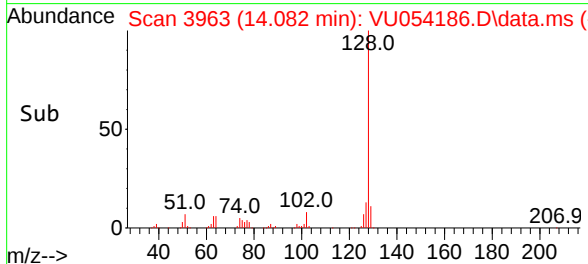
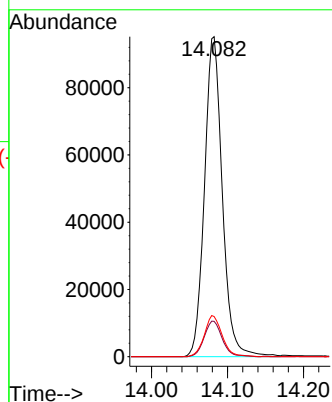
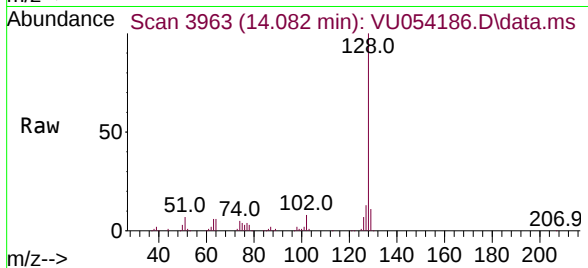
Tgt Ion:128 Resp: 154916

Ion Ratio Lower Upper

128 100

129 11.2 9.0 13.6

127 12.8 10.2 15.4



#72

1,2,3-Trichlorobenzene

Concen: 5.966 ug/L

RT: 14.324 min Scan# 4038

Delta R.T. 0.000 min

Lab File: VU054186.D

Acq: 18 May 2023 23:42

Tgt Ion:180 Resp: 87119

Ion Ratio Lower Upper

180 100

182 96.5 76.4 114.6

145 31.9 25.1 37.7

