

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122222\
 Data File : VU052484.D
 Acq On : 22 Dec 2022 12:11
 Operator : JC/MD
 Sample : N6169-18
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GBQA9

Quant Time: Dec 23 00:31:22 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR122022WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 22 00:28:27 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.246	114	169278	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	166563	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.809	152	84742	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	79319	4.625	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	92.600%
7) Chloroethane-d5	1.912	69	71432	4.830	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.600%
11) 1,1-Dichloroethene-d2	2.565	65	34277	4.645	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.800%
20) 2-Butanone-d5	4.642	46	257471	48.414	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.820%
24) Chloroform-d	5.060	84	149404	5.163	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.200%
26) 1,2-Dichloroethane-d4	5.700	65	80594	4.802	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.000%
32) Benzene-d6	5.726	84	275311	4.821	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.400%
36) 1,2-Dichloropropane-d6	6.687	67	96488	4.908	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.200%
41) Toluene-d8	7.896	98	254262	5.304	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.000%
43) trans-1,3-Dichloroprop...	8.176	79	33105	4.918	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.400%
46) 2-Hexanone-d5	8.632	63	184576	50.119	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.240%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	80537	4.826	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.600%
66) 1,2-Dichlorobenzene-d4	12.188	152	83301	4.828	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.385	85	67495	4.481	ug/L	99
5) Vinyl chloride	1.604	62	92422	4.689	ug/L	95
8) Chloroethane	1.935	64	200099	14.824	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.581	101	163888	12.373	ug/L	99
12) 1,1-Dichloroethene	2.581	96	33301	2.627	ug/L #	78
13) Acetone	2.661	43	1086051	277.020	ug/L	99
15) Methyl Acetate	2.960	43	93470	10.822	ug/L	96
16) Methylene chloride	3.047	84	10161	0.567	ug/L	91
18) trans-1,2-Dichloroethene	3.353	96	42593	3.260	ug/L	97
19) 1,1-Dichloroethane	3.867	63	67333	2.370	ug/L	99
22) cis-1,2-Dichloroethene	4.665	96	67175	4.685	ug/L	96
23) Bromochloromethane	4.973	128	38428	5.783	ug/L	98
25) Chloroform	5.086	83	244168	8.869	ug/L	98
27) 1,2-Dichloroethane	5.790	62	42514	2.235	ug/L	99
29) 1,1,1-Trichloroethane	5.314	97	48831	2.329	ug/L	98
31) Carbon tetrachloride	5.520	117	64544	3.504	ug/L	99
34) Trichloroethene	6.539	95	32614	2.325	ug/L	98
39) cis-1,3-Dichloropropene	7.603	75	110909	5.231	ug/L	98
40) 4-Methyl-2-pentanone	7.790	43	844149	69.002	ug/L	98

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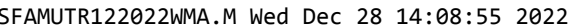
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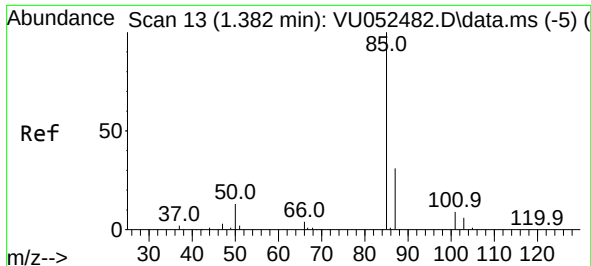
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) trans-1,3-Dichloropropene	8.208	75	48449	2.593	ug/L	100
45) 1,1,2-Trichloroethane	8.398	97	26181	2.208	ug/L	98
47) Tetrachloroethene	8.549	164	35460	3.622	ug/L	97
50) 1,2-Dibromoethane	8.922	107	59169	5.490	ug/L	99
51) Chlorobenzene	9.443	112	249502	6.792	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.780	83	32232	1.966	ug/L	97
59) Bromoform	10.288	173	22678	3.046	ug/L	100
63) 1,2,4-Trimethylbenzene	11.465	105	193446	4.242	ug/L	99
64) 1,3-Dichlorobenzene	11.741	146	90272	3.313	ug/L	96
65) 1,4-Dichlorobenzene	11.831	146	61132	2.169	ug/L	97
70) 1,2,4-trichlorobenzene	13.835	180	85034	5.036	ug/L	98
72) 1,2,3-Trichlorobenzene	14.327	180	48202	2.848	ug/L	99

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

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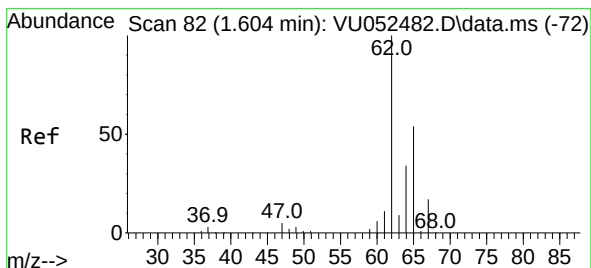
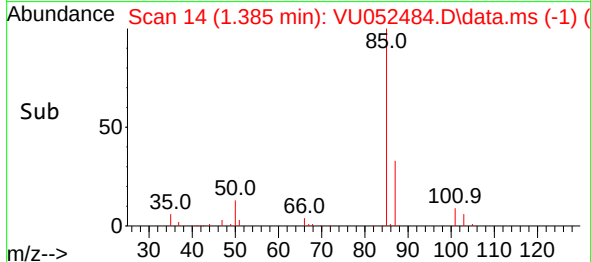
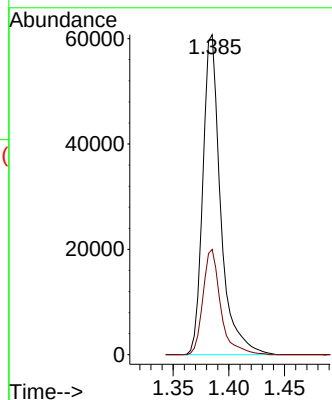
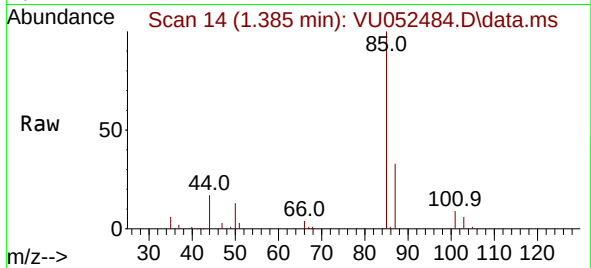




#2
Dichlorodifluoromethane
Concen: 4.481 ug/L
RT: 1.385 min Scan# 14
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

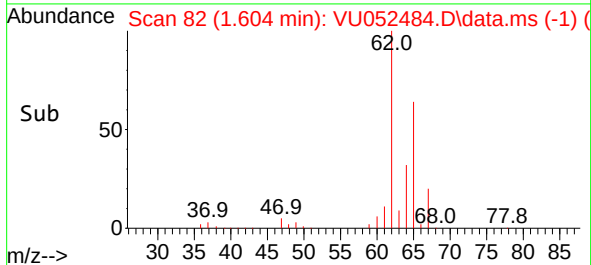
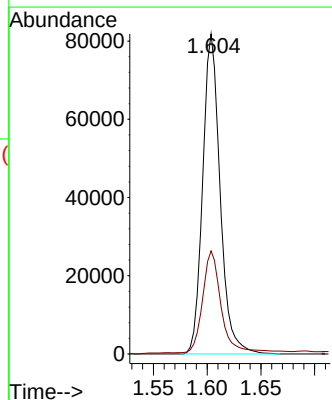
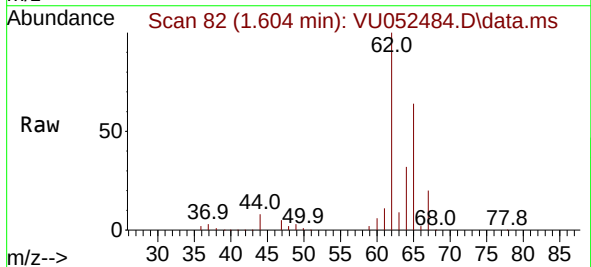
Instrument :
MSVOA_U
ClientSampleId :
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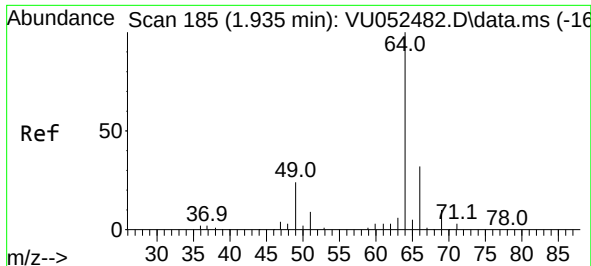
Tgt Ion: 85 Resp: 67495
Ion Ratio Lower Upper
85 100
87 32.8 25.6 38.4



#5
Vinyl chloride
Concen: 4.689 ug/L
RT: 1.604 min Scan# 82
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

Tgt Ion: 62 Resp: 92422
Ion Ratio Lower Upper
62 100
64 32.2 24.4 45.4

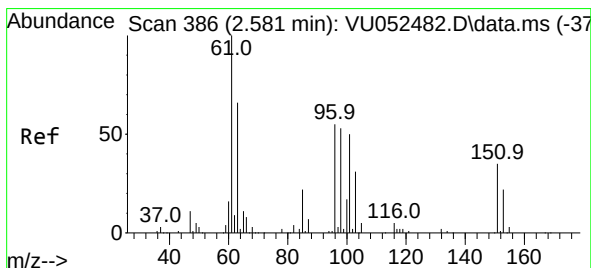
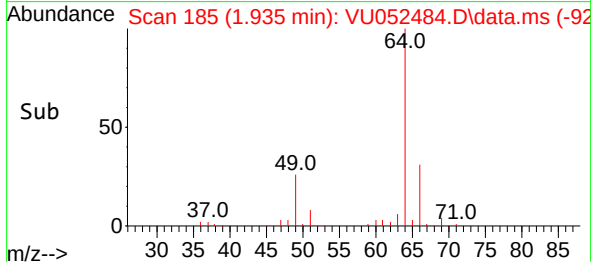
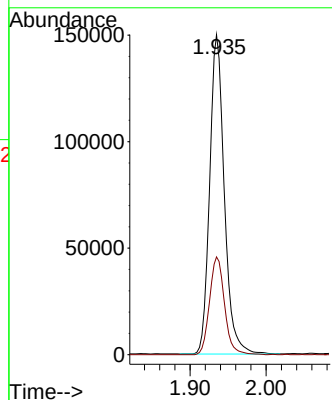
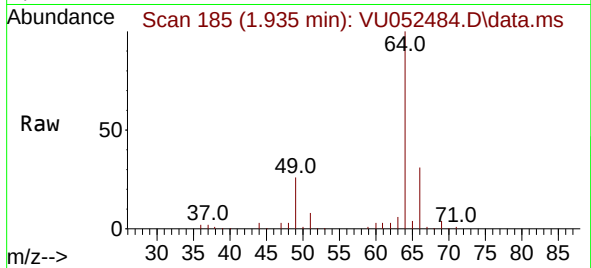




#8
Chloroethane
Concen: 14.824 ug/L
RT: 1.935 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

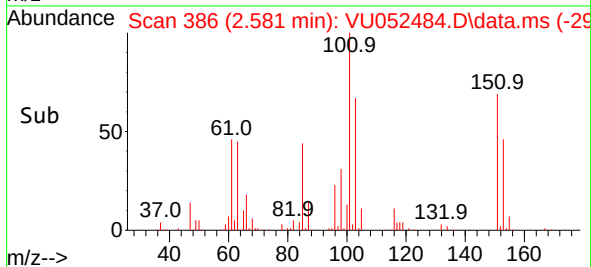
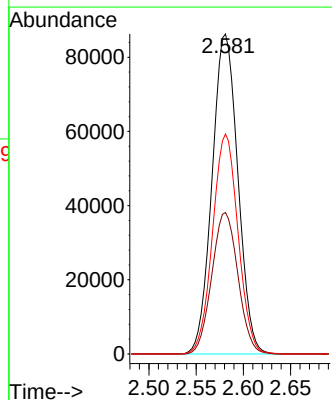
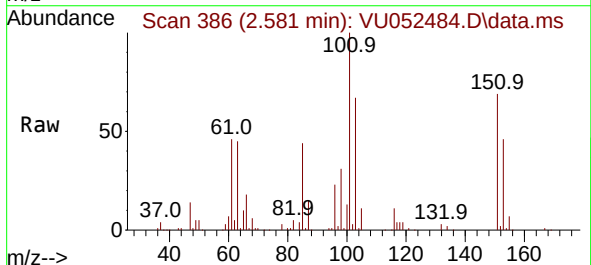
Instrument :
MSVOA_U
ClientSampleId :
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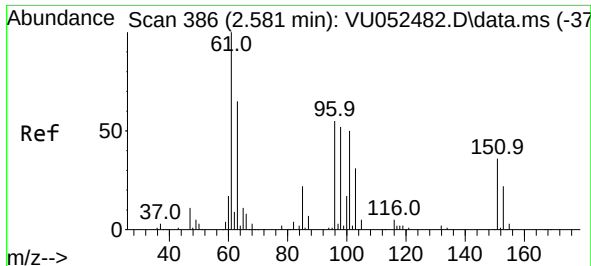
Tgt Ion: 64 Resp: 200099
Ion Ratio Lower Upper
64 100
66 30.6 21.3 39.5



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 12.373 ug/L
RT: 2.581 min Scan# 386
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

Tgt Ion:101 Resp: 163888
Ion Ratio Lower Upper
101 100
85 44.7 35.8 53.6
151 67.9 53.6 80.4

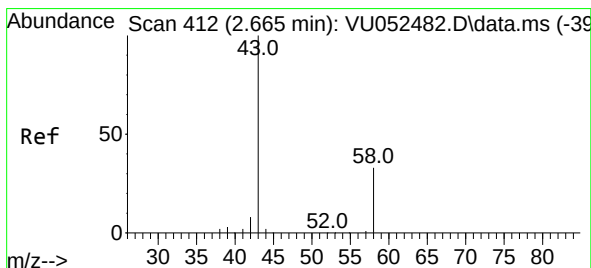
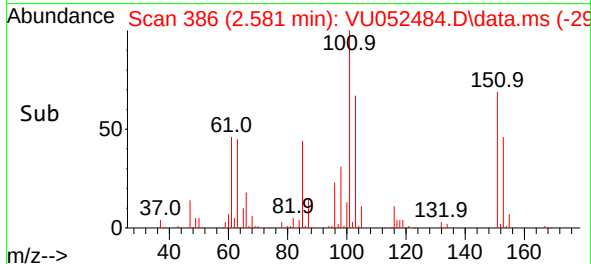
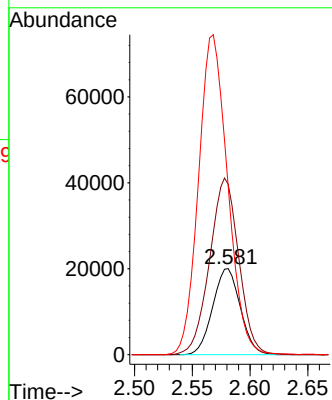
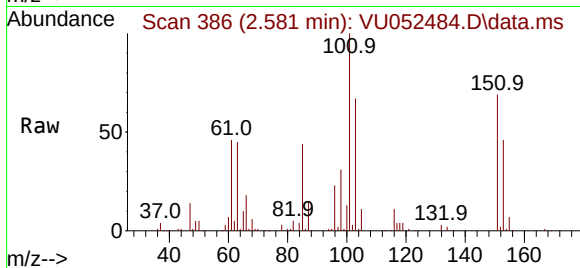




#12
1,1-Dichloroethene
Concen: 2.627 ug/L
RT: 2.581 min Scan# 386
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

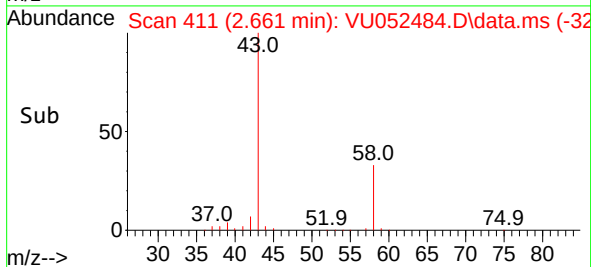
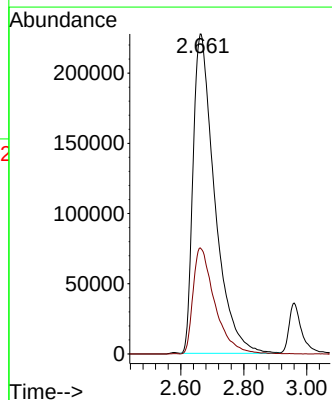
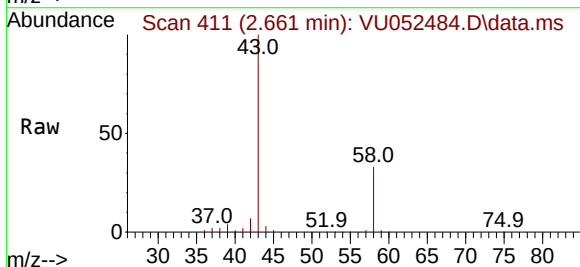
Instrument :
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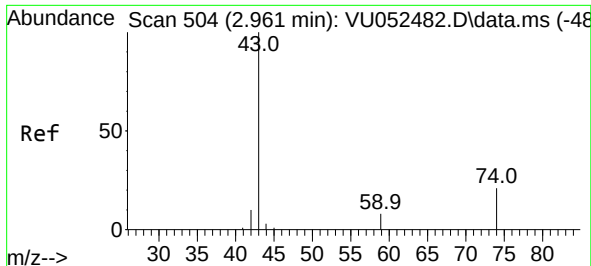
Tgt Ion: 96 Resp: 33301
Ion Ratio Lower Upper
96 100
61 197.7 135.4 251.4
63 195.1 95.4 177.2#



#13
Acetone
Concen: 277.020 ug/L
RT: 2.661 min Scan# 411
Delta R.T. -0.020 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

Tgt Ion: 43 Resp: 1086051
Ion Ratio Lower Upper
43 100
58 33.3 0.0 65.4

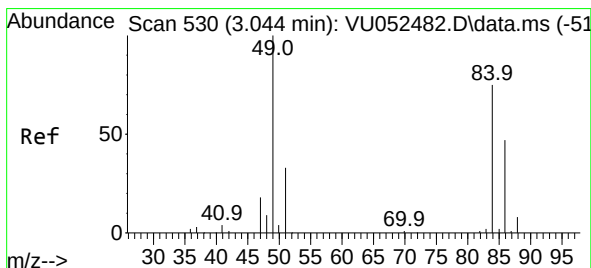
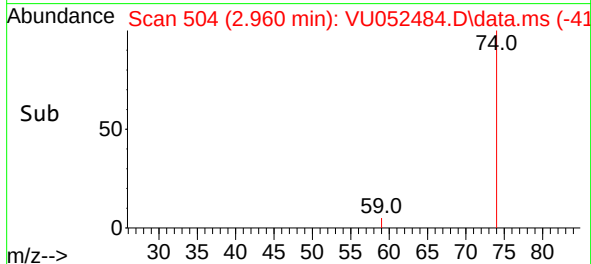
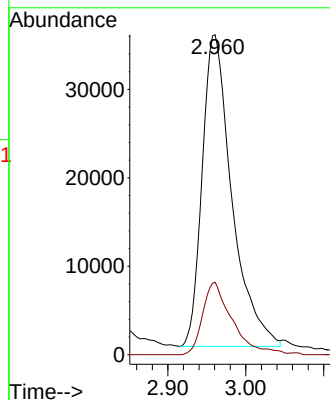
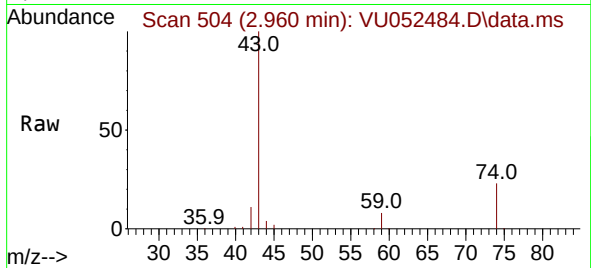




#15
Methyl Acetate
Concen: 10.822 ug/L
RT: 2.960 min Scan# 504
Delta R.T. -0.003 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

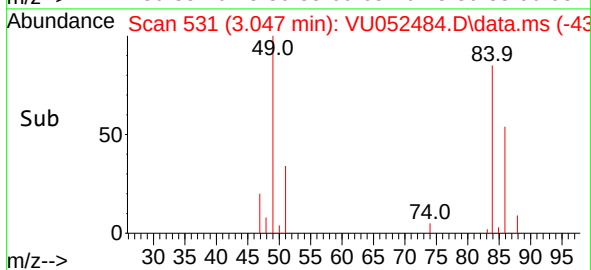
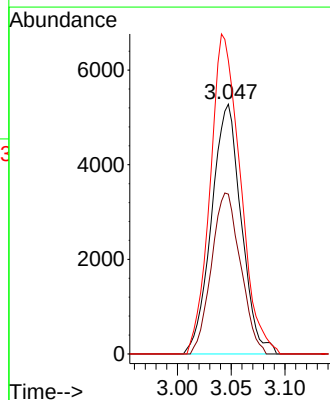
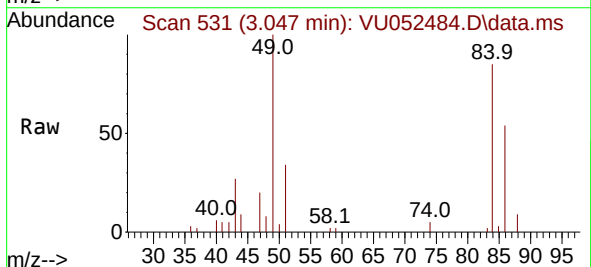
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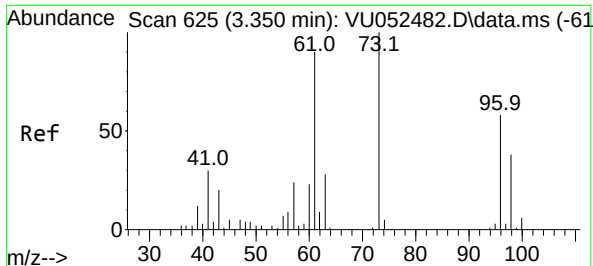
Tgt Ion: 43 Resp: 93470
Ion Ratio Lower Upper
43 100
74 23.1 16.9 25.3



#16
Methylene chloride
Concen: 0.567 ug/L
RT: 3.047 min Scan# 531
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

Tgt Ion: 84 Resp: 10161
Ion Ratio Lower Upper
84 100
86 64.0 44.7 83.1
49 117.5 93.3 173.3

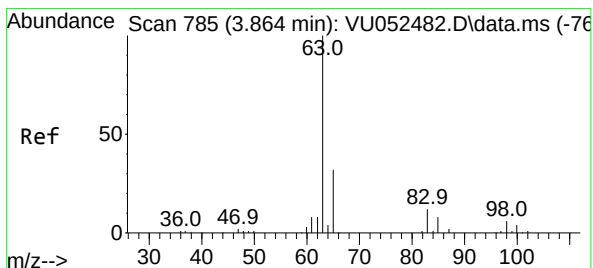
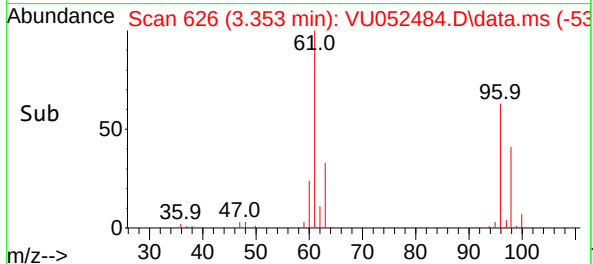
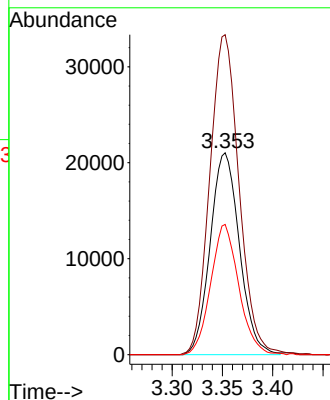
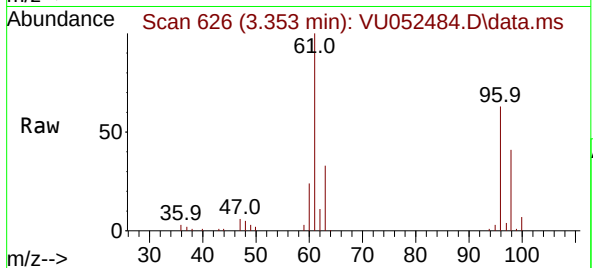




#18
trans-1,2-Dichloroethene
Concen: 3.260 ug/L
RT: 3.353 min Scan# 61
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

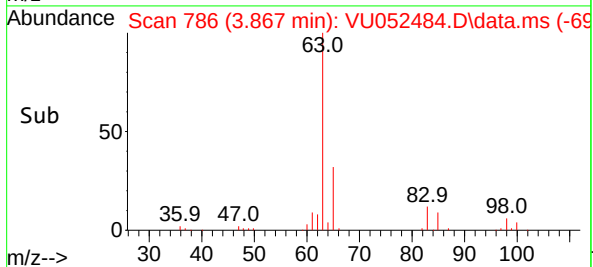
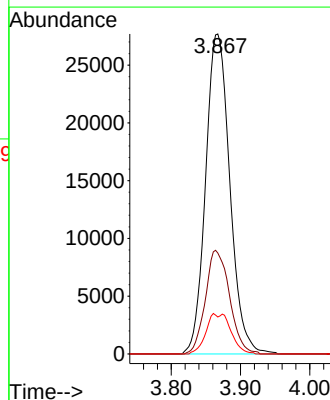
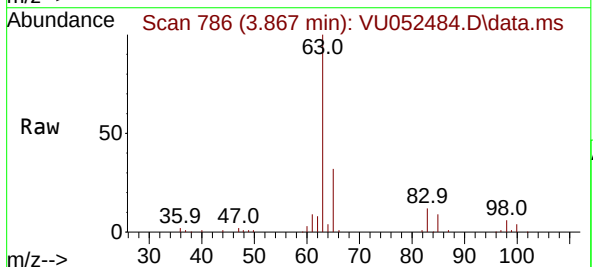
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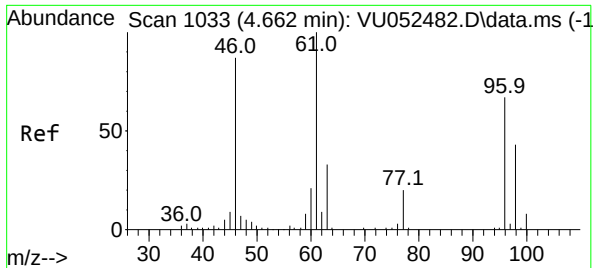
Tgt Ion: 96 Resp: 42593
Ion Ratio Lower Upper
96 100
61 158.5 108.3 201.1
98 64.5 44.0 81.6



#19
1,1-Dichloroethane
Concen: 2.370 ug/L
RT: 3.867 min Scan# 786
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

Tgt Ion: 63 Resp: 67333
Ion Ratio Lower Upper
63 100
65 31.6 22.0 40.8
83 11.5 9.0 16.8

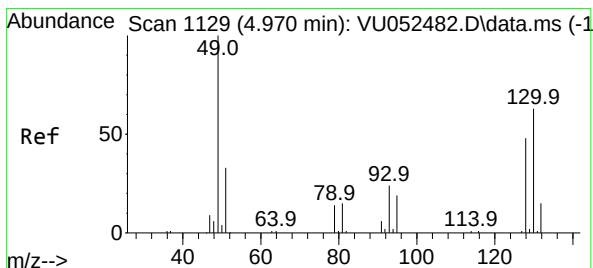
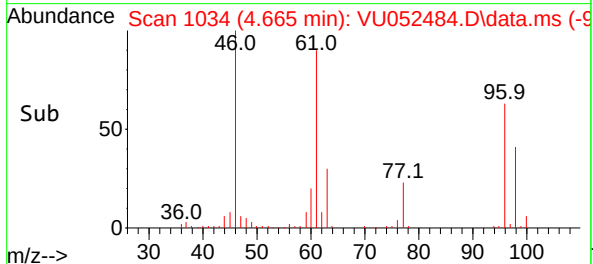
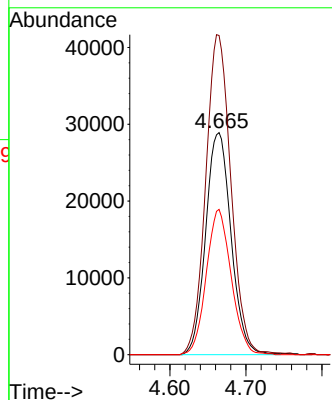
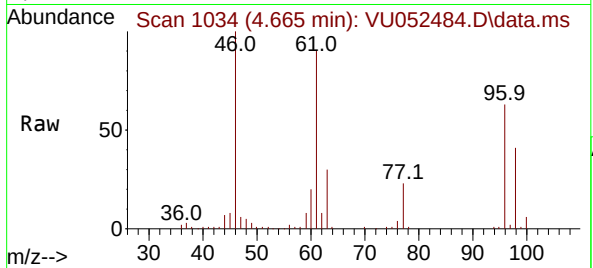




#22
 cis-1,2-Dichloroethene
 Concen: 4.685 ug/L
 RT: 4.665 min Scan# 110
 Delta R.T. -0.000 min
 Lab File: VU052484.D
 Acq: 22 Dec 2022 12:11

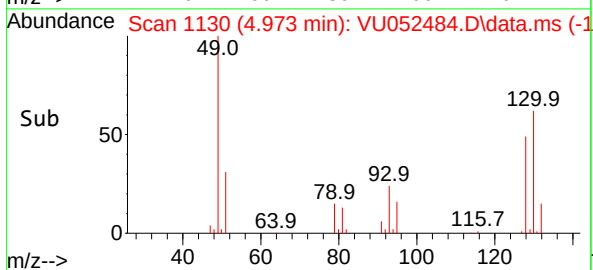
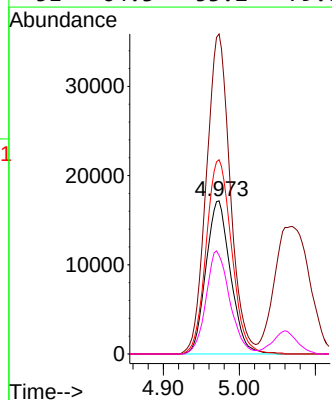
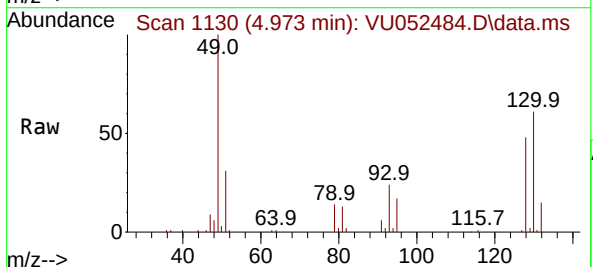
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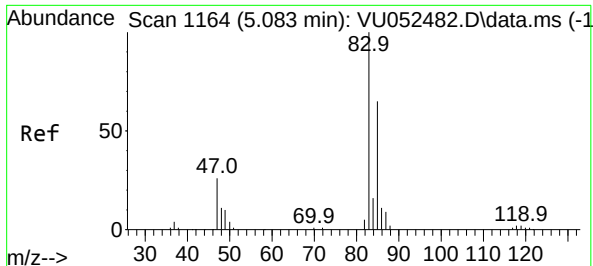
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 Ion Ratio Lower Upper
 96 100
 61 143.7 96.9 180.1
 98 65.4 44.7 83.1



#23
 Bromochloromethane
 Concen: 5.783 ug/L
 RT: 4.973 min Scan# 1130
 Delta R.T. -0.003 min
 Lab File: VU052484.D
 Acq: 22 Dec 2022 12:11

Tgt Ion:128 Resp: 38428
 Ion Ratio Lower Upper
 128 100
 49 208.9 143.3 266.1
 130 126.8 88.4 164.2
 51 64.3 53.2 79.8





#25

Chloroform

Concen: 8.869 ug/L

RT: 5.086 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VU052484.D

Acq: 22 Dec 2022 12:11

Instrument :

MSVOA_U

ClientSampleId :

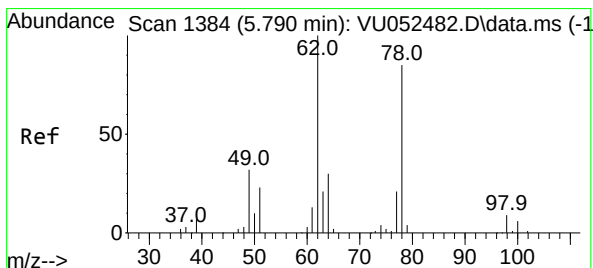
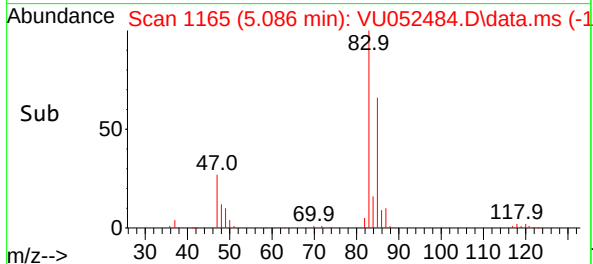
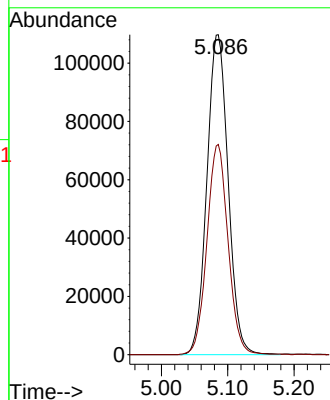
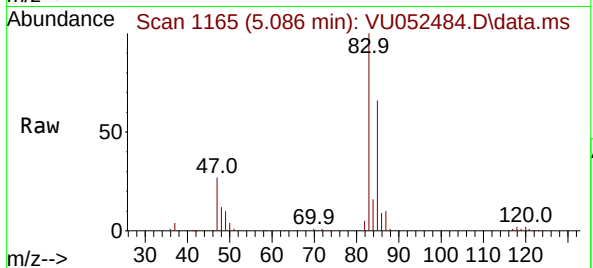
GBQA9

Tgt Ion: 83 Resp: 244168

Ion Ratio Lower Upper

83 100

85 65.7 44.7 83.1



#27

1,2-Dichloroethane

Concen: 2.235 ug/L

RT: 5.790 min Scan# 1384

Delta R.T. -0.003 min

Lab File: VU052484.D

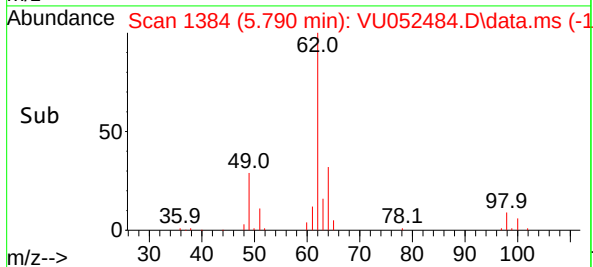
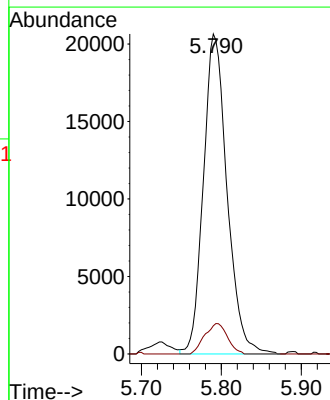
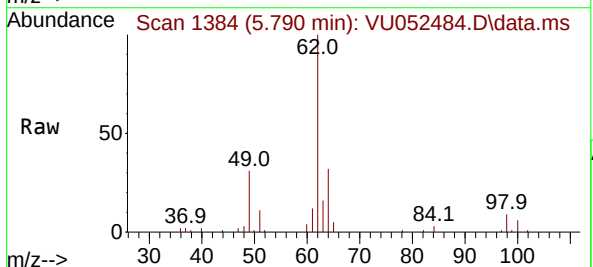
Acq: 22 Dec 2022 12:11

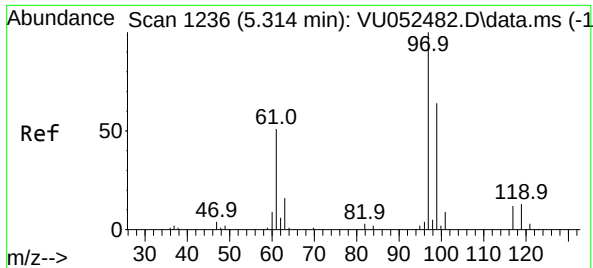
Tgt Ion: 62 Resp: 42514

Ion Ratio Lower Upper

62 100

98 8.8 7.4 11.2

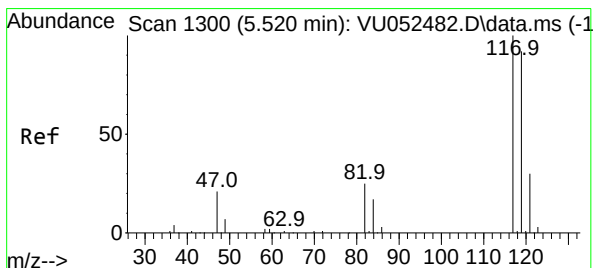
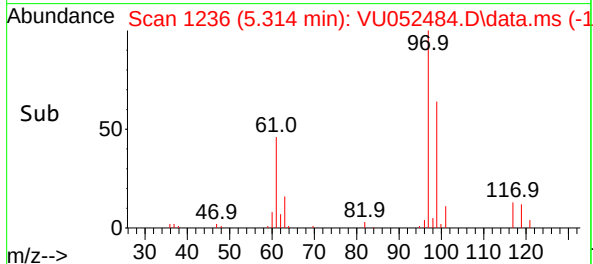
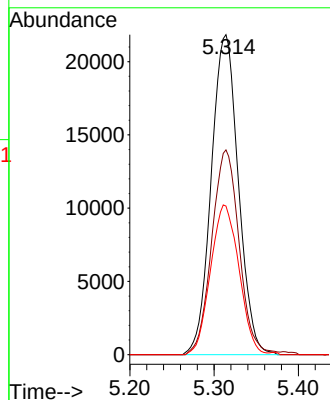
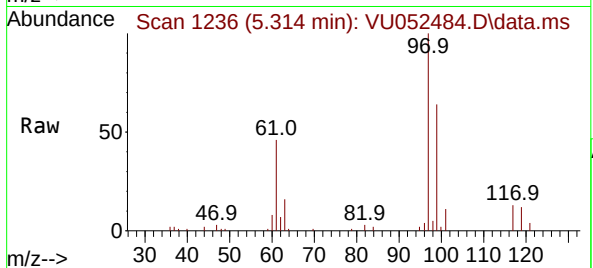




#29
1,1,1-Trichloroethane
Concen: 2.329 ug/L
RT: 5.314 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

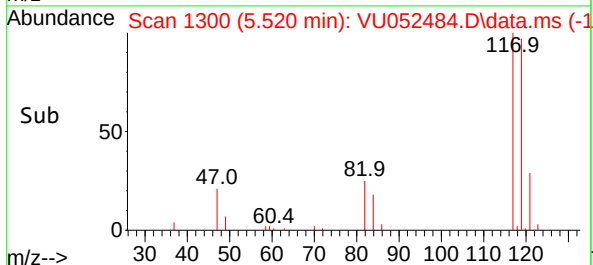
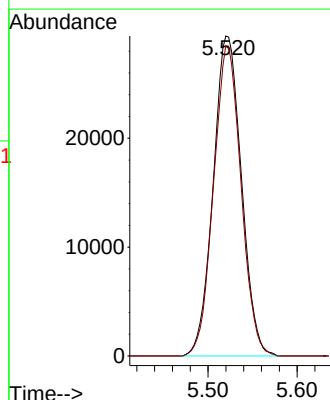
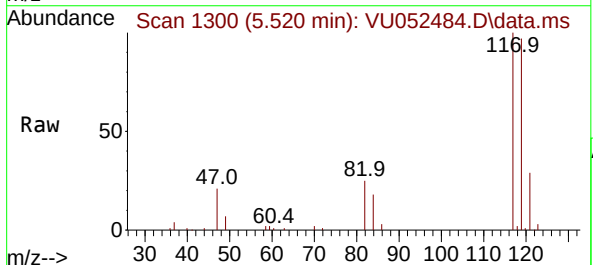
Instrument :
MSVOA_U
ClientSampleId :
GBQA9

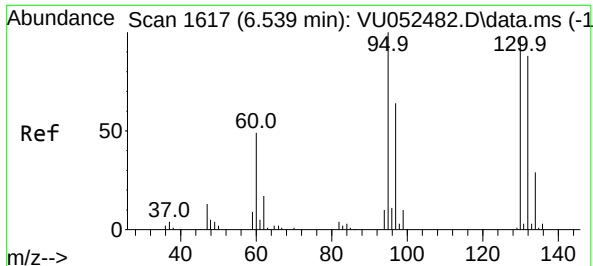
Tgt Ion: 97 Resp: 48831
Ion Ratio Lower Upper
97 100
99 64.7 52.2 78.2
61 49.1 41.6 62.4



#31
Carbon tetrachloride
Concen: 3.504 ug/L
RT: 5.520 min Scan# 1300
Delta R.T. -0.003 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

Tgt Ion: 117 Resp: 64544
Ion Ratio Lower Upper
117 100
119 94.5 76.3 114.5



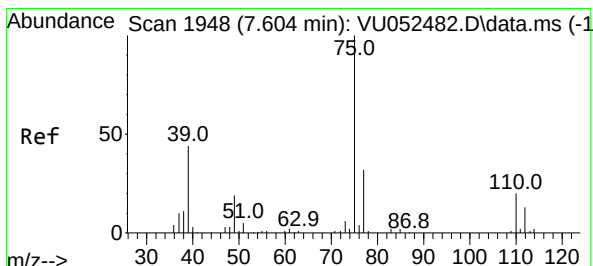
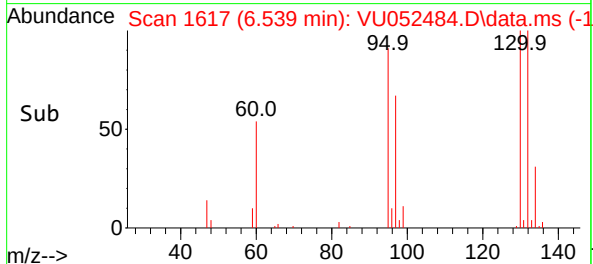
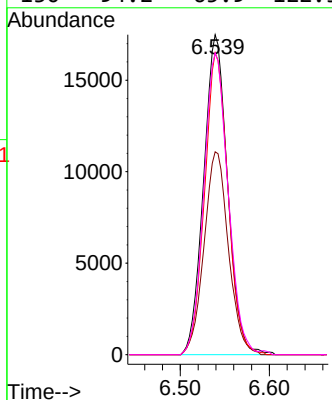
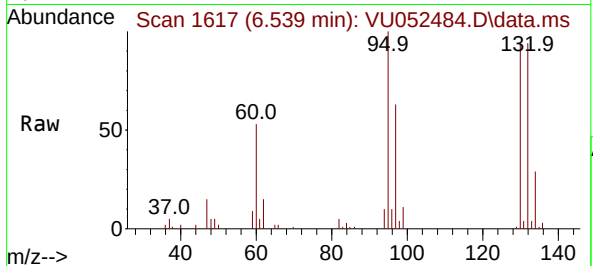


#34
Trichloroethene
Concen: 2.325 ug/L
RT: 6.539 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

Instrument :
MSVOA_U
ClientSampleId :
GBQA9

Tgt Ion: 95 Resp: 32614

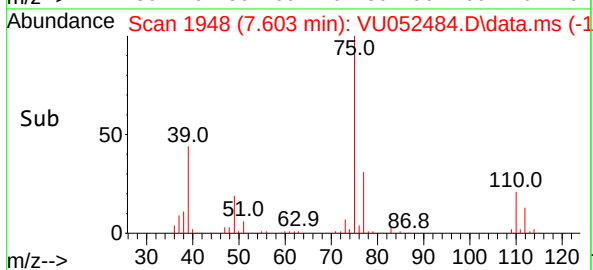
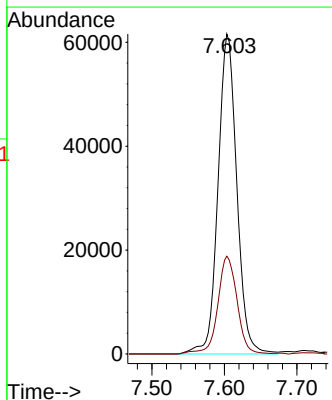
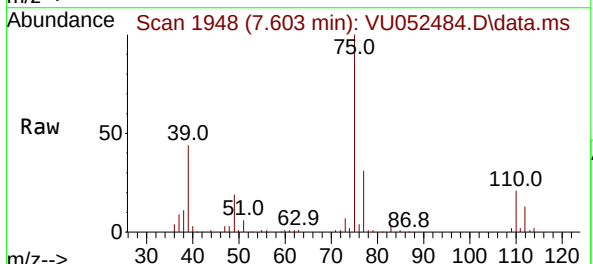
Ion	Ratio	Lower	Upper
95	100		
97	63.4	46.3	86.1
132	94.3	63.9	118.7
130	94.2	65.9	122.5

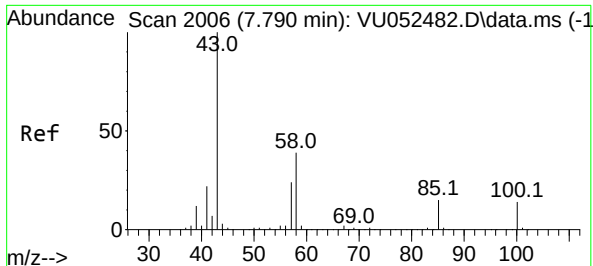


#39
cis-1,3-Dichloropropene
Concen: 5.231 ug/L
RT: 7.603 min Scan# 1948
Delta R.T. -0.003 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

Tgt Ion: 75 Resp: 110909

Ion	Ratio	Lower	Upper
75	100		
77	30.6	22.0	41.0





#40

4-Methyl-2-pentanone

Concen: 69.002 ug/L

RT: 7.790 min Scan# 2006

Delta R.T. -0.000 min

Lab File: VU052484.D

Acq: 22 Dec 2022 12:11

Instrument :

MSVOA_U

ClientSampleId :

GBQA9

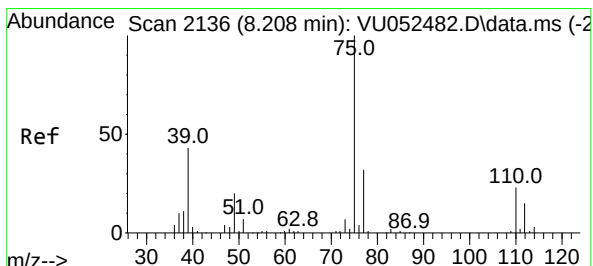
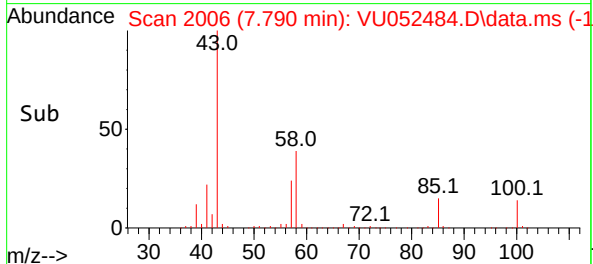
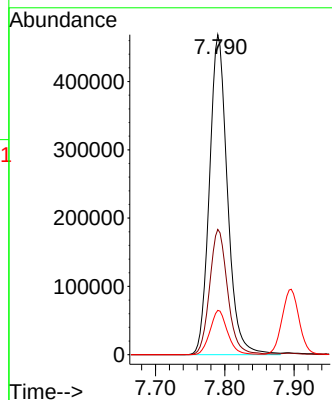
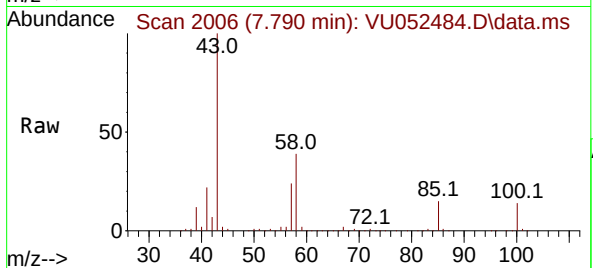
Tgt Ion: 43 Resp: 844149

Ion Ratio Lower Upper

43 100

58 39.2 30.6 45.8

100 13.5 10.4 15.6



#44

trans-1,3-Dichloropropene

Concen: 2.593 ug/L

RT: 8.208 min Scan# 2136

Delta R.T. -0.000 min

Lab File: VU052484.D

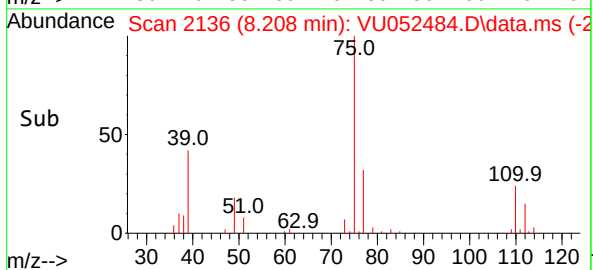
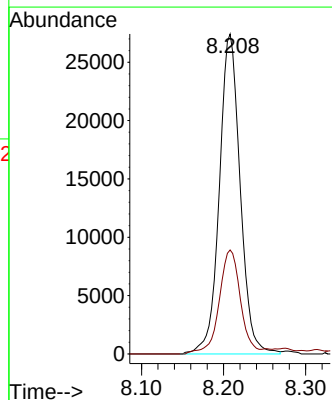
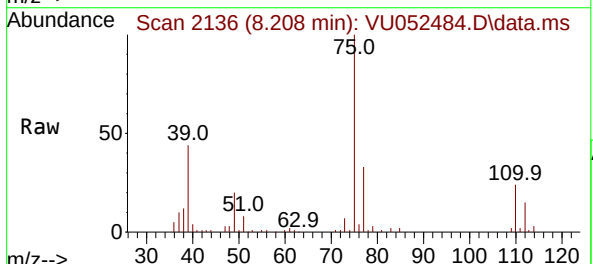
Acq: 22 Dec 2022 12:11

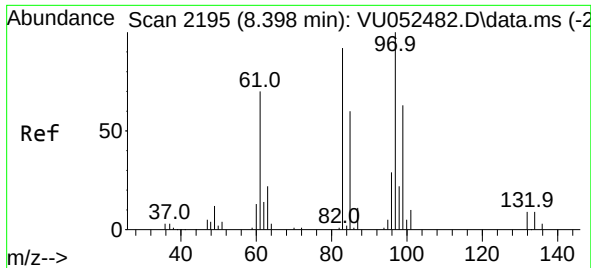
Tgt Ion: 75 Resp: 48449

Ion Ratio Lower Upper

75 100

77 32.5 22.8 42.4

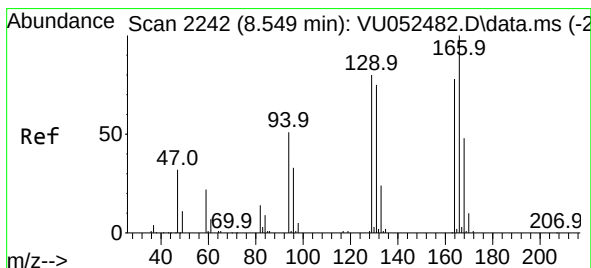
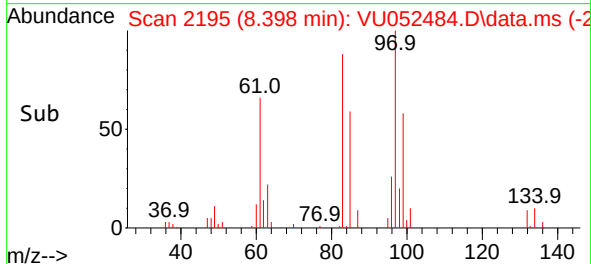
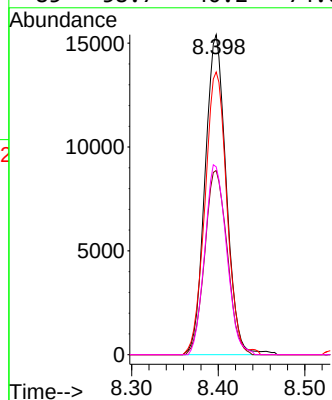
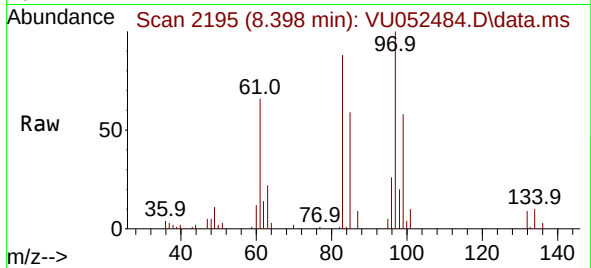




#45
1,1,2-Trichloroethane
Concen: 2.208 ug/L
RT: 8.398 min Scan# 2195
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

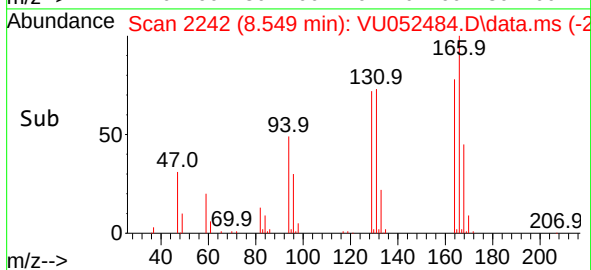
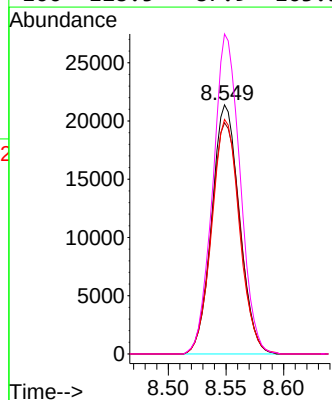
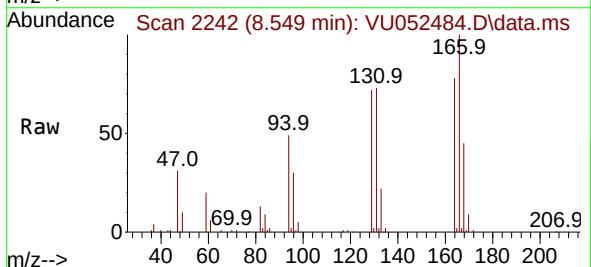
Instrument :
MSVOA_U
ClientSampleId :
GBQA9

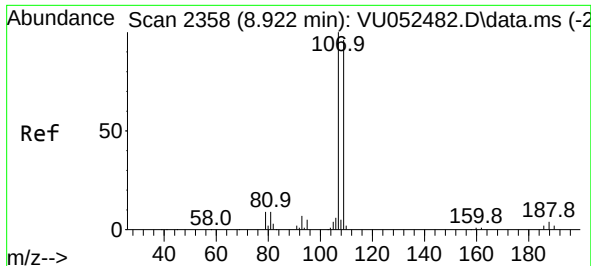
Tgt Ion:	97	Resp:	26181
Ion	Ratio	Lower	Upper
97	100		
99	57.5	42.0	78.0
83	88.4	63.2	117.4
85	58.7	40.2	74.6



#47
Tetrachloroethene
Concen: 3.622 ug/L
RT: 8.549 min Scan# 2242
Delta R.T. -0.003 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

Tgt Ion:	164	Resp:	35460
Ion	Ratio	Lower	Upper
164	100		
129	92.8	68.1	126.5
131	94.2	66.5	123.5
166	128.5	87.9	163.3





#50

1,2-Dibromoethane

Concen: 5.490 ug/L

RT: 8.922 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU052484.D

Acq: 22 Dec 2022 12:11

Instrument :

MSVOA_U

ClientSampleId :

GBQA9

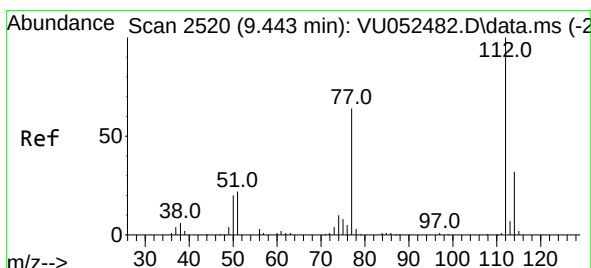
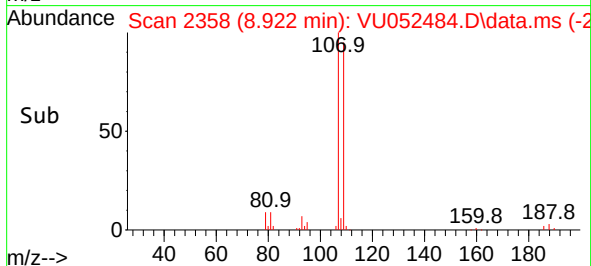
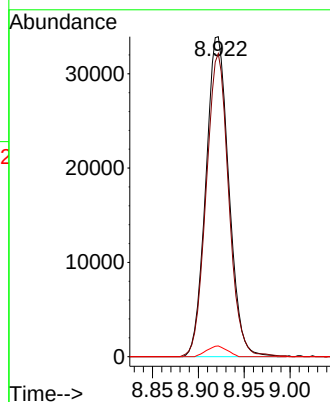
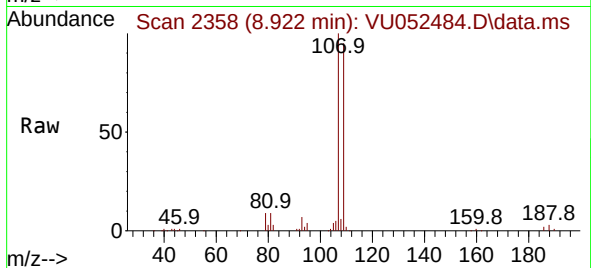
Tgt Ion:107 Resp: 59169

Ion Ratio Lower Upper

107 100

109 94.7 65.8 122.2

188 3.3 2.3 3.5



#51

Chlorobenzene

Concen: 6.792 ug/L

RT: 9.443 min Scan# 2520

Delta R.T. -0.000 min

Lab File: VU052484.D

Acq: 22 Dec 2022 12:11

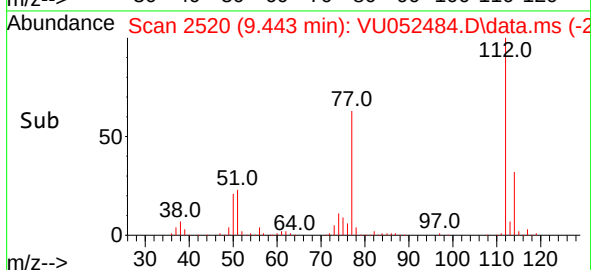
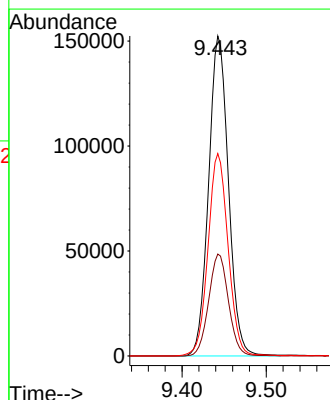
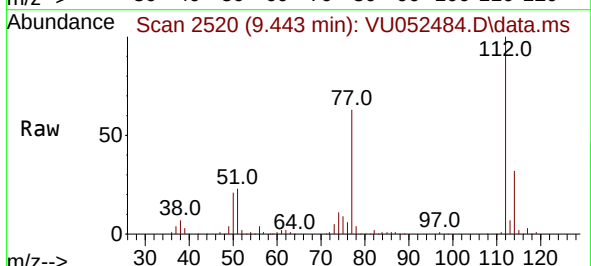
Tgt Ion:112 Resp: 249502

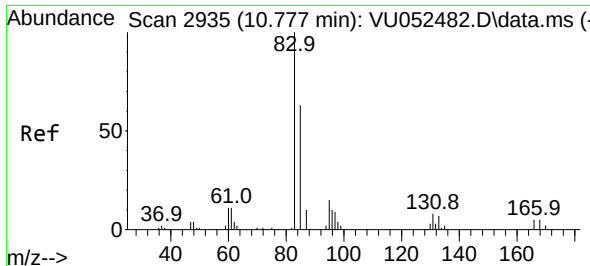
Ion Ratio Lower Upper

112 100

114 31.9 21.3 39.5

77 63.3 51.0 76.6





#57

1,1,2,2-Tetrachloroethane

Concen: 1.966 ug/L

RT: 10.780 min Scan# 2935

Delta R.T. 0.003 min

Lab File: VU052484.D

Acq: 22 Dec 2022 12:11

Instrument :

MSVOA_U

ClientSampleId :

GBQA9

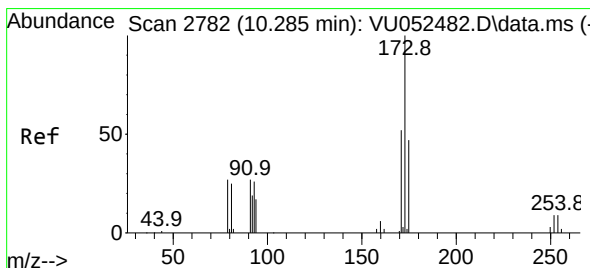
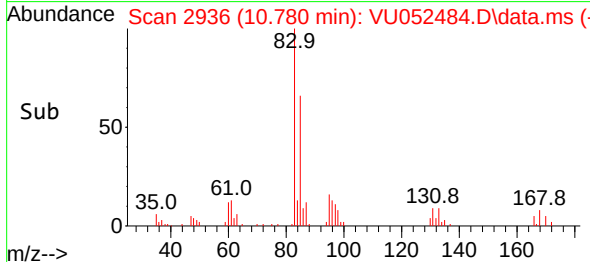
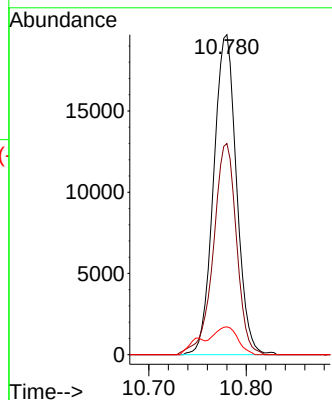
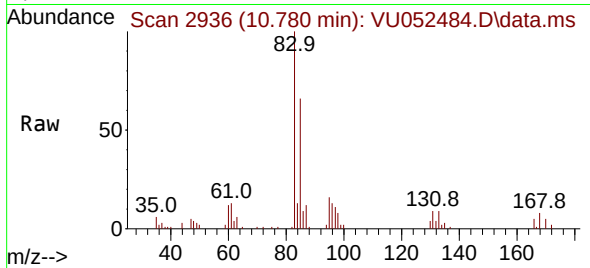
Tgt Ion: 83 Resp: 32232

Ion Ratio Lower Upper

83 100

85 66.0 44.7 83.1

131 8.7 6.0 9.0



#59

Bromoform

Concen: 3.046 ug/L

RT: 10.288 min Scan# 2783

Delta R.T. -0.000 min

Lab File: VU052484.D

Acq: 22 Dec 2022 12:11

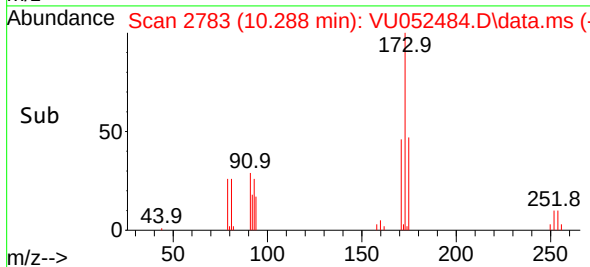
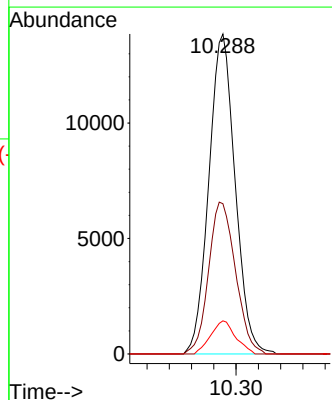
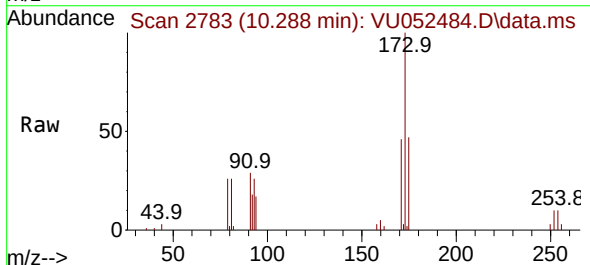
Tgt Ion:173 Resp: 22678

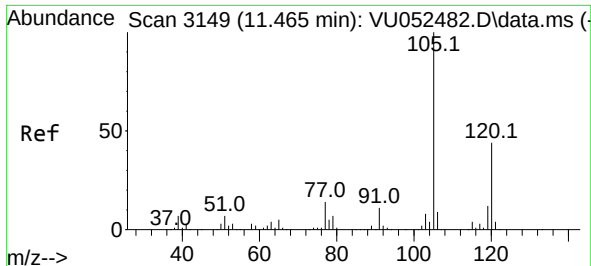
Ion Ratio Lower Upper

173 100

175 48.6 38.9 58.3

254 9.8 7.0 10.6

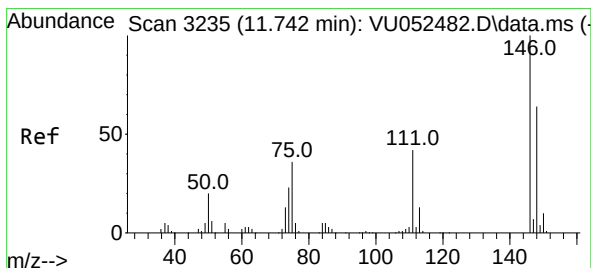
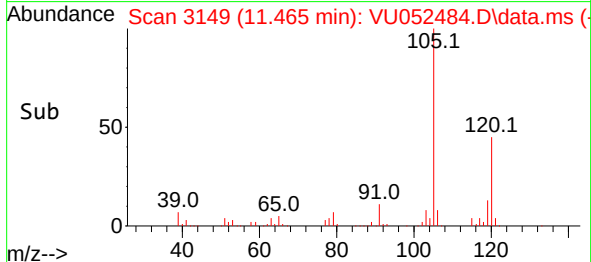
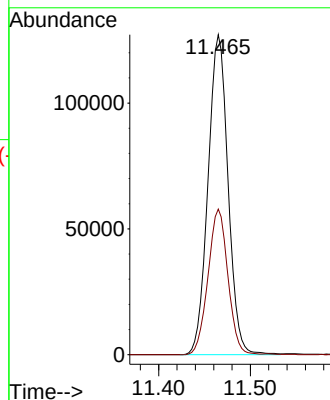
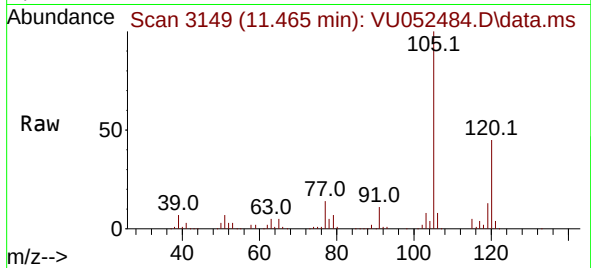




#63
1,2,4-Trimethylbenzene
Concen: 4.242 ug/L
RT: 11.465 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

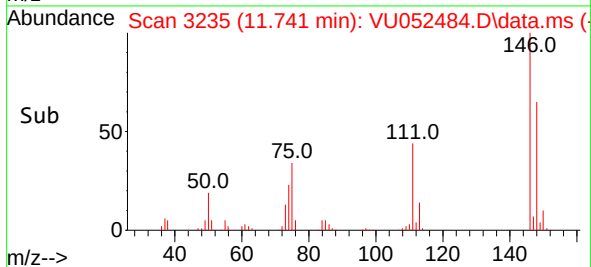
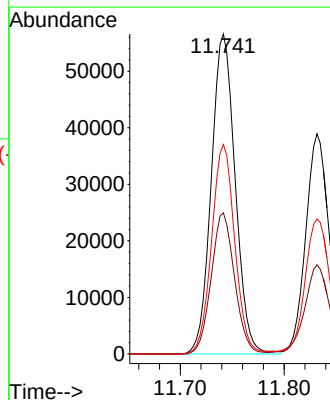
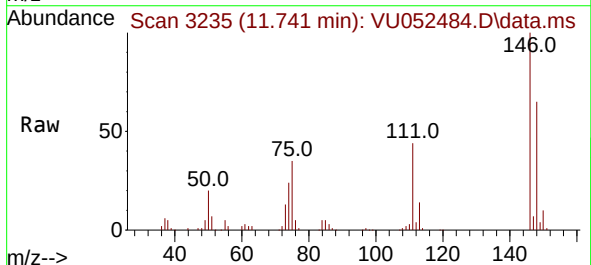
Instrument :
MSVOA_U
ClientSampleId :
GBQA9

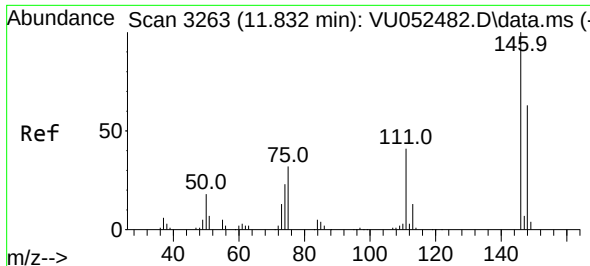
Tgt Ion:105 Resp: 193446
Ion Ratio Lower Upper
105 100
120 45.1 35.6 53.4



#64
1,3-Dichlorobenzene
Concen: 3.313 ug/L
RT: 11.741 min Scan# 3235
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

Tgt Ion:146 Resp: 90272
Ion Ratio Lower Upper
146 100
111 44.1 29.9 55.5
148 65.5 43.4 80.6

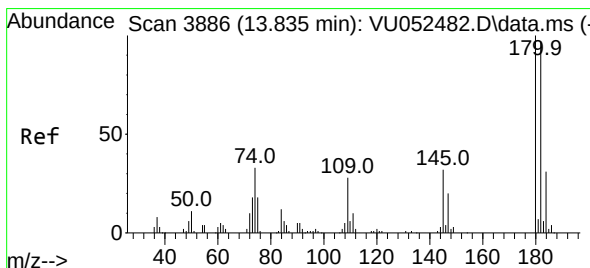
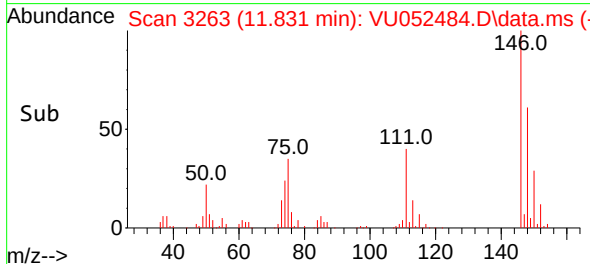
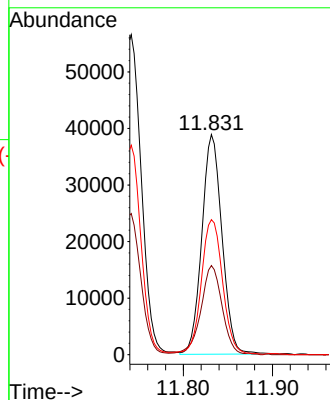
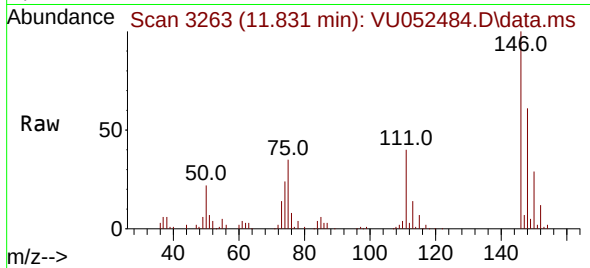




#65
1,4-Dichlorobenzene
Concen: 2.169 ug/L
RT: 11.831 min Scan# 311
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

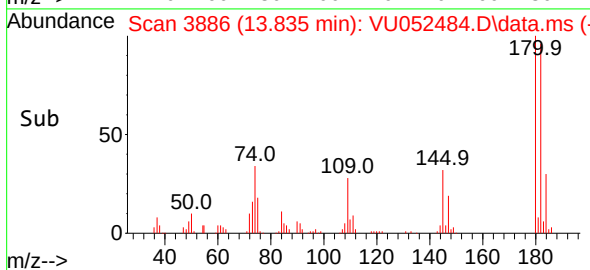
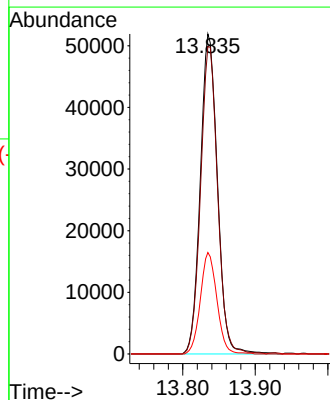
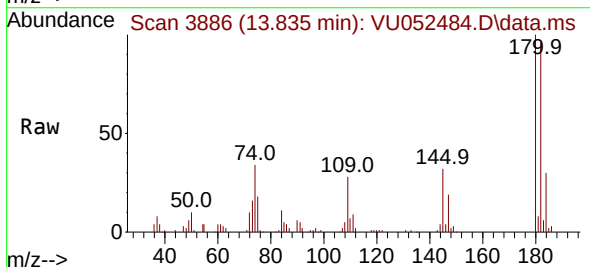
Instrument :
MSVOA_U
ClientSampleId :
GBQA9

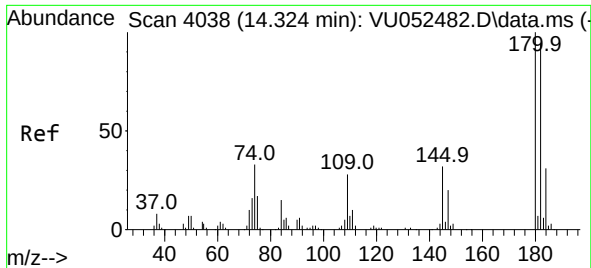
Tgt Ion:146 Resp: 61132
Ion Ratio Lower Upper
146 100
111 40.5 27.5 51.1
148 61.4 44.9 83.3



#70
1,2,4-trichlorobenzene
Concen: 5.036 ug/L
RT: 13.835 min Scan# 3886
Delta R.T. -0.000 min
Lab File: VU052484.D
Acq: 22 Dec 2022 12:11

Tgt Ion:180 Resp: 85034
Ion Ratio Lower Upper
180 100
182 95.4 77.7 116.5
145 30.6 24.0 36.0





#72
 1,2,3-Trichlorobenzene
 Concen: 2.848 ug/L
 RT: 14.327 min Scan# 4039
 Delta R.T. 0.003 min
 Lab File: VU052484.D
 Acq: 22 Dec 2022 12:11

Instrument :
 MSVOA_U
 ClientSampleId :
 GBQA9

Tgt Ion:180 Resp: 48202
 Ion Ratio Lower Upper
 180 100
 182 93.6 76.3 114.5
 145 32.2 25.8 38.8

