

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU122222\
 Data File : VU052487.D
 Acq On : 22 Dec 2022 13:31
 Operator : JC/MD
 Sample : N6170-13
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GBQC0

Quant Time: Dec 23 00:31:48 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	6.247	114	165284	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.414	117	166979	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.806	152	81953	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.597	65	74223	4.433	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.600%
7) Chloroethane-d5	1.912	69	66828	4.628	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.600%
11) 1,1-Dichloroethene-d2	2.565	65	32454	4.504	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	90.000%
20) 2-Butanone-d5	4.639	46	241271	46.464	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	92.920%
24) Chloroform-d	5.060	84	141903	5.023	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.400%
26) 1,2-Dichloroethane-d4	5.697	65	75134	4.585	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.600%
32) Benzene-d6	5.723	84	262574	4.587	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.800%
36) 1,2-Dichloropropane-d6	6.687	67	91071	4.621	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.400%
41) Toluene-d8	7.893	98	237268	4.937	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.800%
43) trans-1,3-Dichloroprop...	8.176	79	30643	4.541	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.800%
46) 2-Hexanone-d5	8.632	63	168900	45.748	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.500%
56) 1,1,2,2-Tetrachloroeth...	10.751	84	74394	4.446	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.000%
66) 1,2-Dichlorobenzene-d4	12.189	152	76532	4.587	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.382	85	70840	4.817	ug/L	98
5) Vinyl chloride	1.604	62	92801	4.822	ug/L	99
8) Chloroethane	1.932	64	200443	15.208	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.578	101	159111	12.303	ug/L	98
12) 1,1-Dichloroethene	2.578	96	33425	2.700	ug/L #	74
13) Acetone	2.655	43	552498	144.332	ug/L	99
15) Methyl Acetate	2.954	43	94943	11.258	ug/L	97
16) Methylene chloride	3.044	84	10280	0.588	ug/L	98
18) trans-1,2-Dichloroethene	3.350	96	42143	3.303	ug/L	99
19) 1,1-Dichloroethane	3.864	63	66937	2.413	ug/L	98
22) cis-1,2-Dichloroethene	4.662	96	67321	4.808	ug/L	98
23) Bromochloromethane	4.970	128	37844	5.833	ug/L	99
25) Chloroform	5.083	83	246799	9.181	ug/L	99
27) 1,2-Dichloroethane	5.790	62	42009	2.262	ug/L	100
29) 1,1,1-Trichloroethane	5.311	97	48848	2.324	ug/L	98
31) Carbon tetrachloride	5.520	117	62155	3.366	ug/L	98
34) Trichloroethene	6.539	95	36480	2.595	ug/L	97
39) cis-1,3-Dichloropropene	7.604	75	109008	5.128	ug/L	99
40) 4-Methyl-2-pentanone	7.787	43	810557	66.091	ug/L	99

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

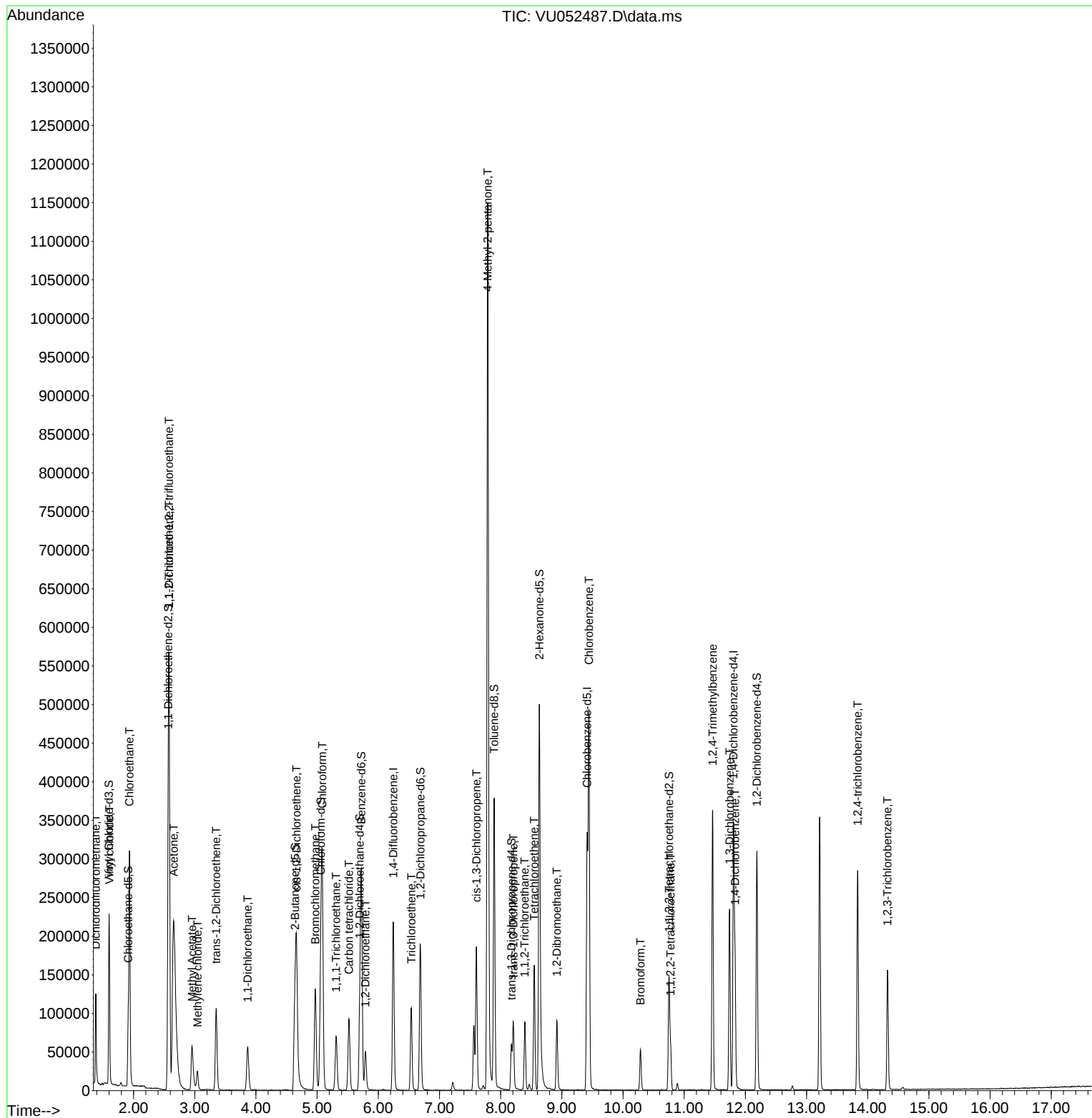
44) trans-1,3-Dichloropropene	8.208	75	48956	2.614	ug/L	100
45) 1,1,2-Trichloroethane	8.394	97	25741	2.166	ug/L	95
47) Tetrachloroethene	8.549	164	34039	3.468	ug/L	95
50) 1,2-Dibromoethane	8.919	107	58871	5.448	ug/L	100
51) Chlorobenzene	9.443	112	245482	6.666	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.777	83	27215	1.656	ug/L	98
59) Bromoform	10.285	173	22571	3.135	ug/L	100
63) 1,2,4-Trimethylbenzene	11.465	105	188907	4.284	ug/L	97
64) 1,3-Dichlorobenzene	11.742	146	90646	3.440	ug/L	98
65) 1,4-Dichlorobenzene	11.832	146	61066	2.241	ug/L	99
70) 1,2,4-trichlorobenzene	13.835	180	82908	5.077	ug/L	99
72) 1,2,3-Trichlorobenzene	14.324	180	46151	2.820	ug/L	99

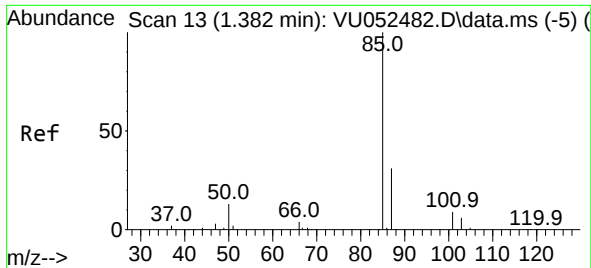
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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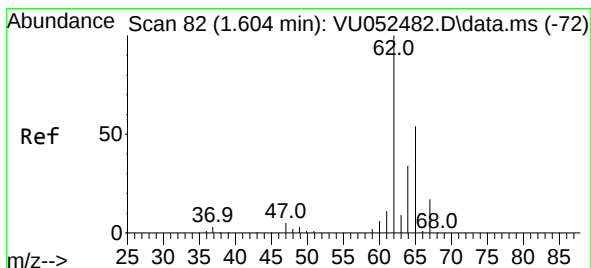
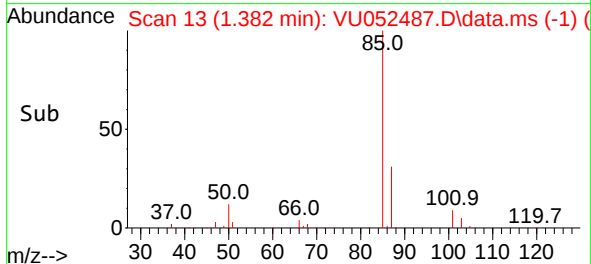
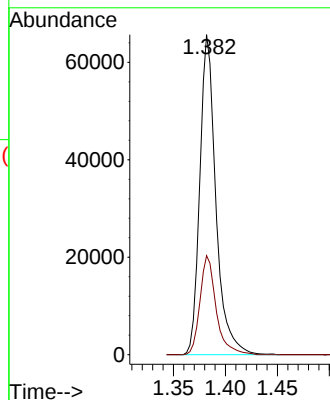
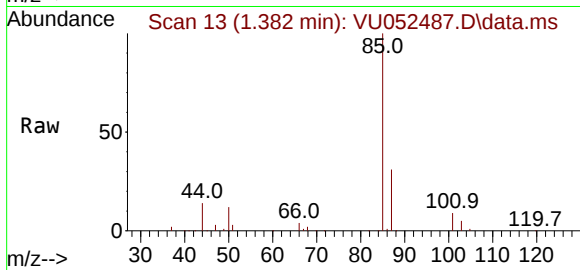




#2
Dichlorodifluoromethane
Concen: 4.817 ug/L
RT: 1.382 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

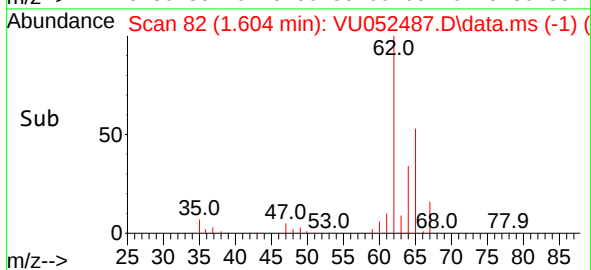
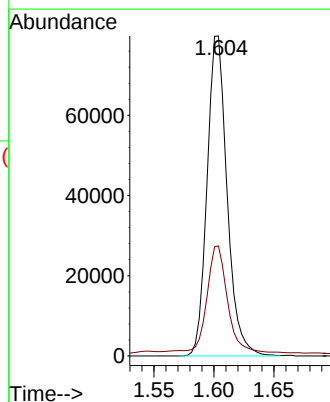
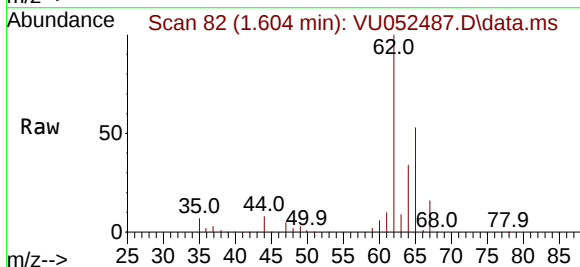
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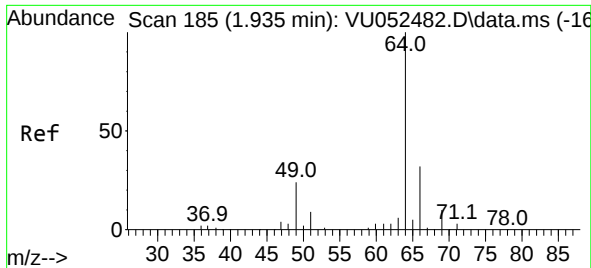
Tgt Ion: 85 Resp: 70840
Ion Ratio Lower Upper
85 100
87 31.1 25.6 38.4



#5
Vinyl chloride
Concen: 4.822 ug/L
RT: 1.604 min Scan# 82
Delta R.T. -0.000 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

Tgt Ion: 62 Resp: 92801
Ion Ratio Lower Upper
62 100
64 34.4 24.4 45.4

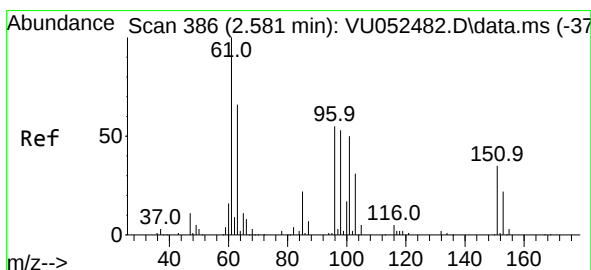
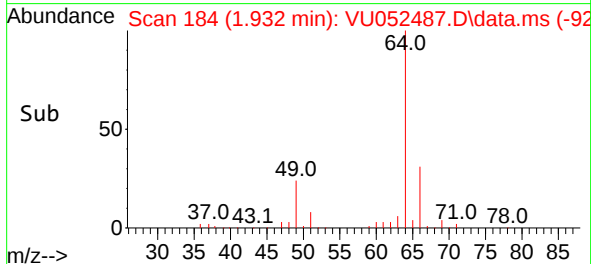
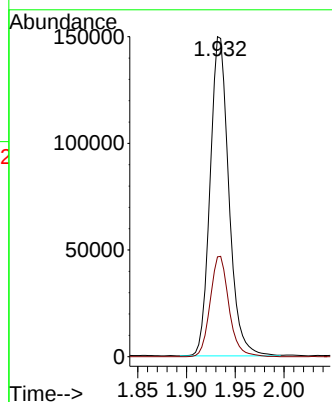
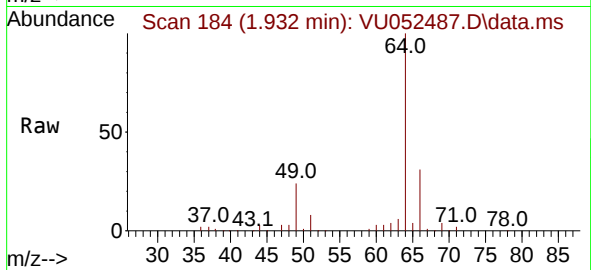




#8
Chloroethane
Concen: 15.208 ug/L
RT: 1.932 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

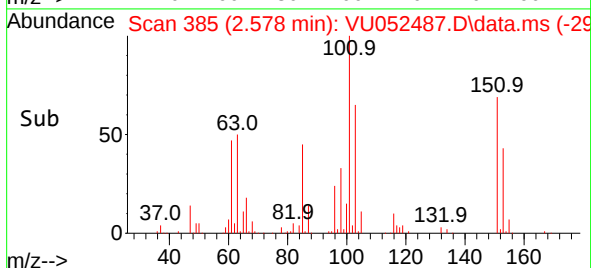
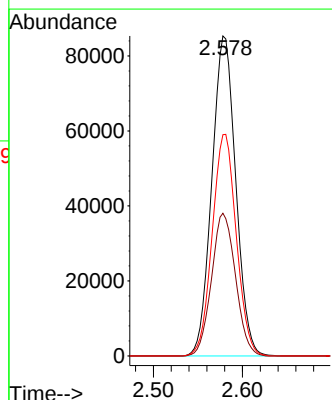
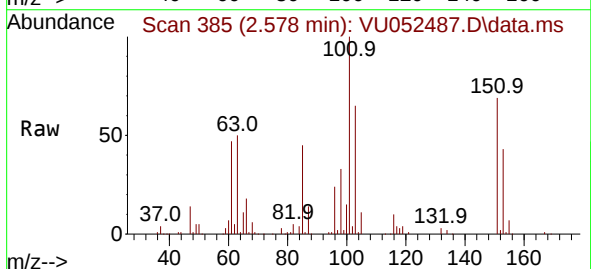
Instrument :
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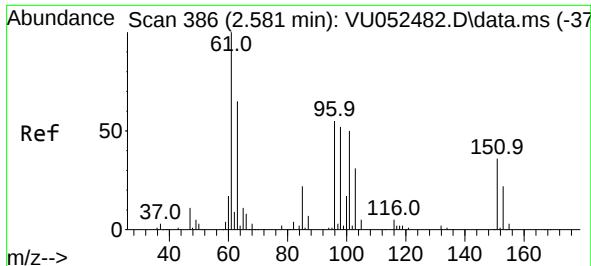
Tgt Ion: 64 Resp: 200443
Ion Ratio Lower Upper
64 100
66 31.2 21.3 39.5



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 12.303 ug/L
RT: 2.578 min Scan# 385
Delta R.T. -0.003 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

Tgt Ion:101 Resp: 159111
Ion Ratio Lower Upper
101 100
85 44.7 35.8 53.6
151 69.7 53.6 80.4

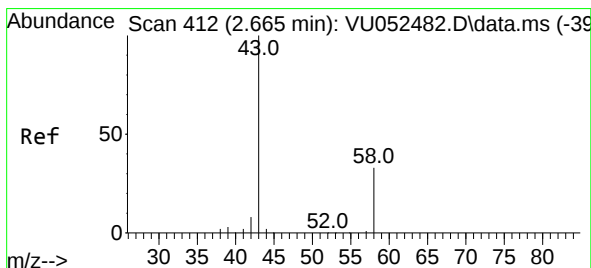
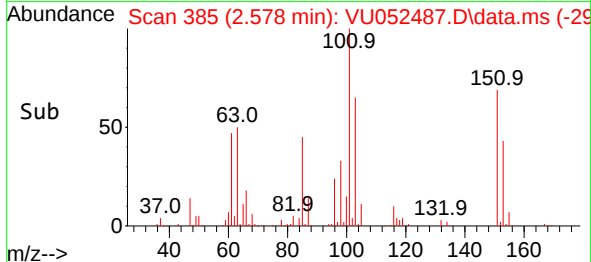
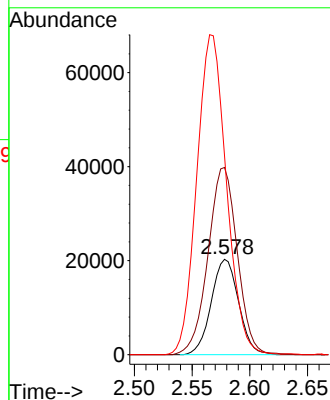
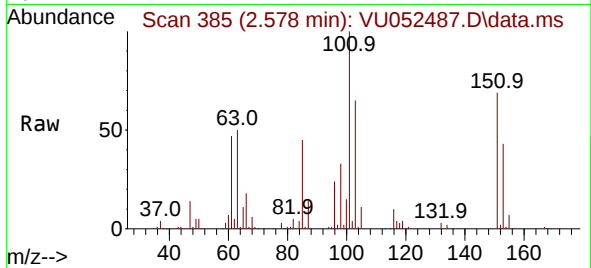




#12
1,1-Dichloroethene
Concen: 2.700 ug/L
RT: 2.578 min Scan# 31
Delta R.T. -0.003 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

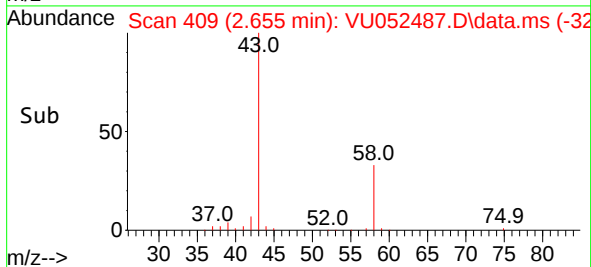
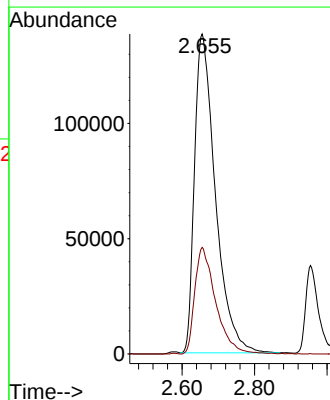
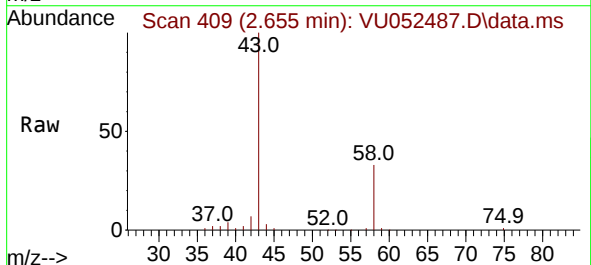
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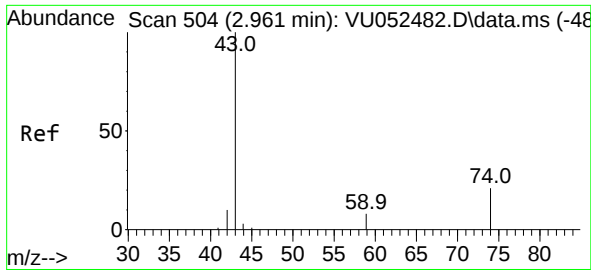
Tgt Ion: 96 Resp: 33425
Ion Ratio Lower Upper
96 100
61 196.1 135.4 251.4
63 208.6 95.4 177.2#



#13
Acetone
Concen: 144.332 ug/L
RT: 2.655 min Scan# 409
Delta R.T. -0.026 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

Tgt Ion: 43 Resp: 552498
Ion Ratio Lower Upper
43 100
58 33.4 0.0 65.4

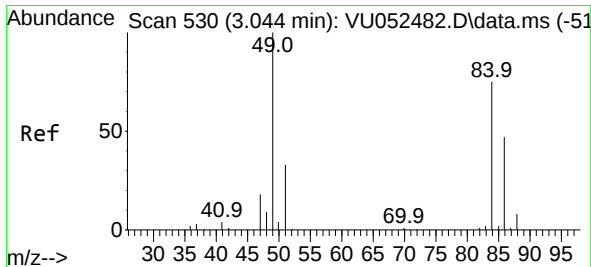
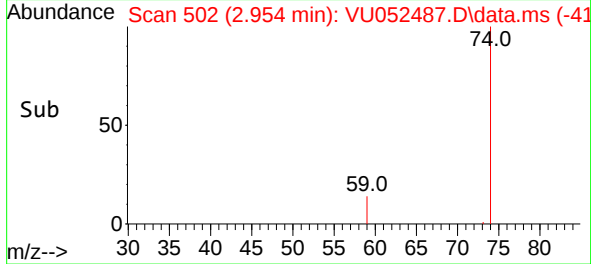
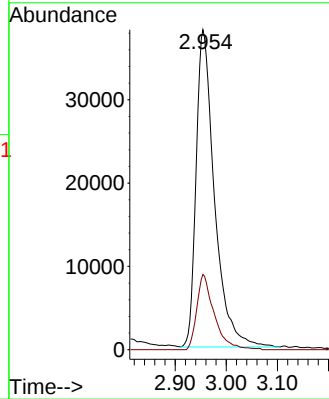
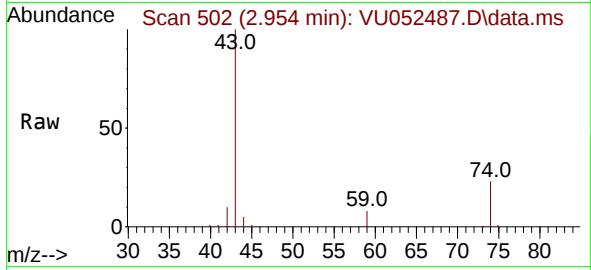




#15
Methyl Acetate
Concen: 11.258 ug/L
RT: 2.954 min Scan# 504
Delta R.T. -0.010 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

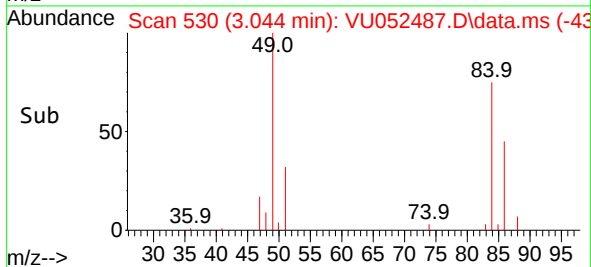
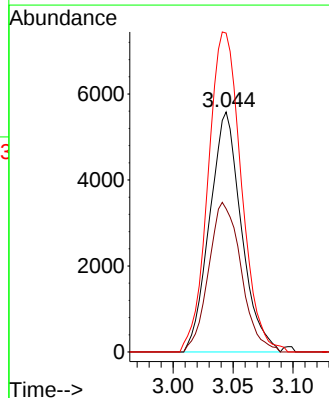
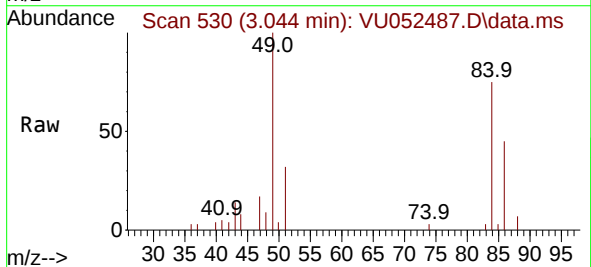
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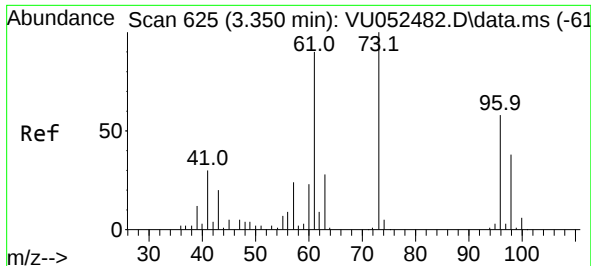
Tgt Ion: 43 Resp: 94943
Ion Ratio Lower Upper
43 100
74 22.5 16.9 25.3



#16
Methylene chloride
Concen: 0.588 ug/L
RT: 3.044 min Scan# 530
Delta R.T. -0.003 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

Tgt Ion: 84 Resp: 10280
Ion Ratio Lower Upper
84 100
86 59.7 44.7 83.1
49 132.9 93.3 173.3

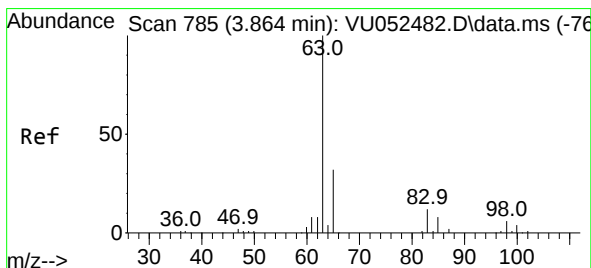
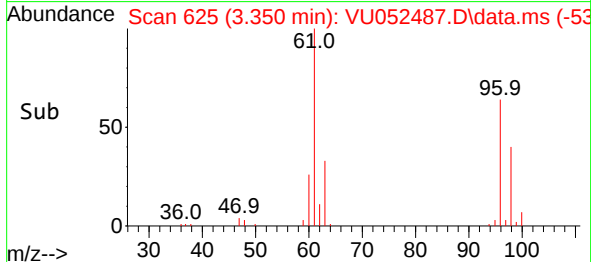
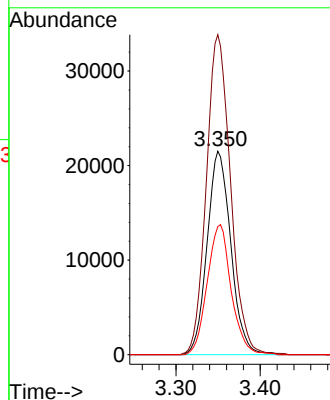
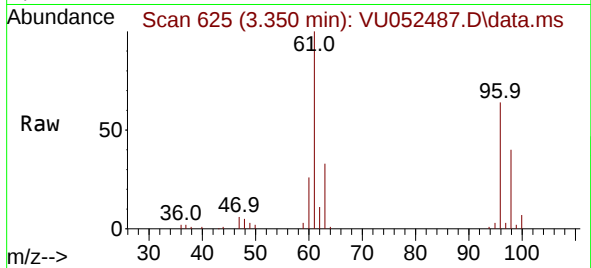




#18
trans-1,2-Dichloroethene
Concen: 3.303 ug/L
RT: 3.350 min Scan# 61
Delta R.T. -0.003 min
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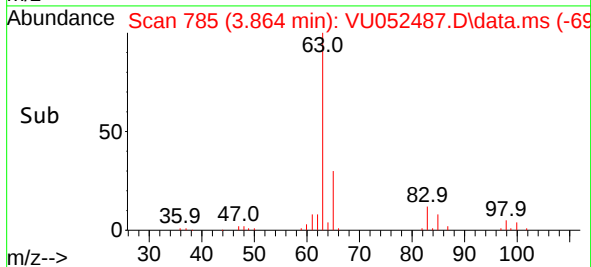
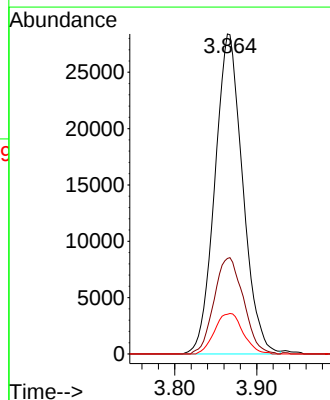
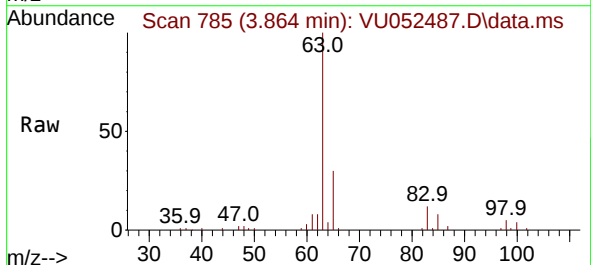
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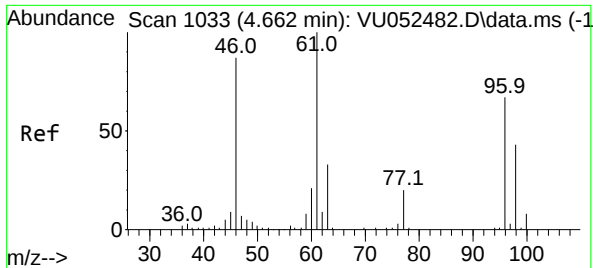
Tgt Ion: 96 Resp: 42143
Ion Ratio Lower Upper
96 100
61 157.2 108.3 201.1
98 62.9 44.0 81.6



#19
1,1-Dichloroethane
Concen: 2.413 ug/L
RT: 3.864 min Scan# 785
Delta R.T. -0.003 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

Tgt Ion: 63 Resp: 66937
Ion Ratio Lower Upper
63 100
65 29.9 22.0 40.8
83 12.4 9.0 16.8

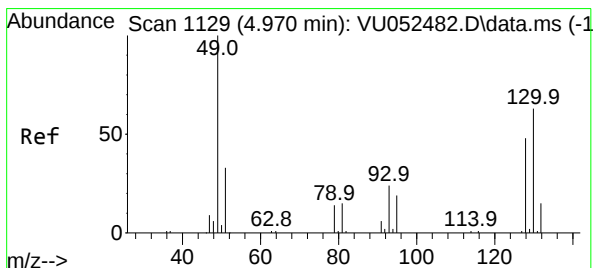
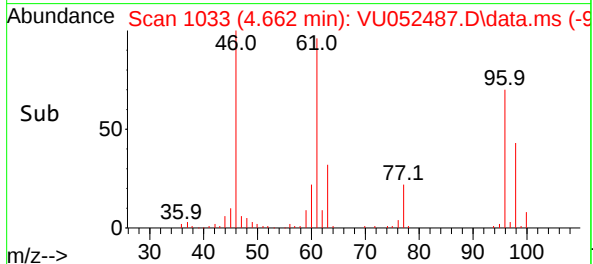
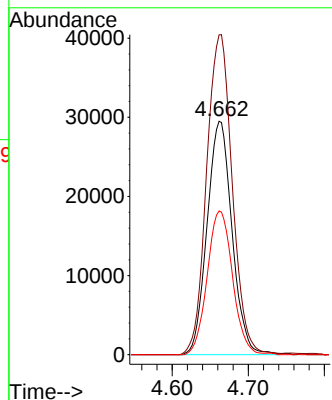
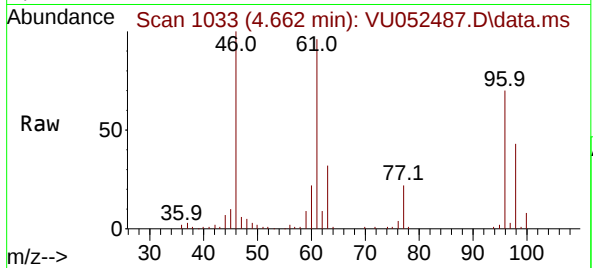




#22
cis-1,2-Dichloroethene
Concen: 4.808 ug/L
RT: 4.662 min Scan# 1033
Delta R.T. -0.003 min
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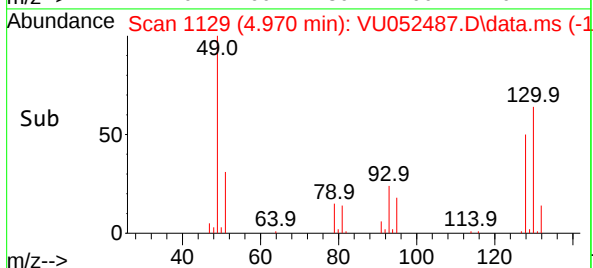
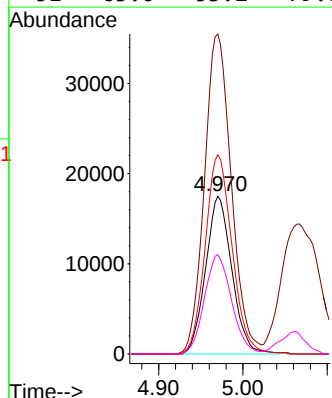
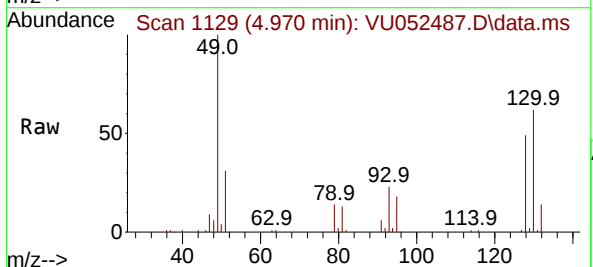
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ClientSampleId :
GBQC0

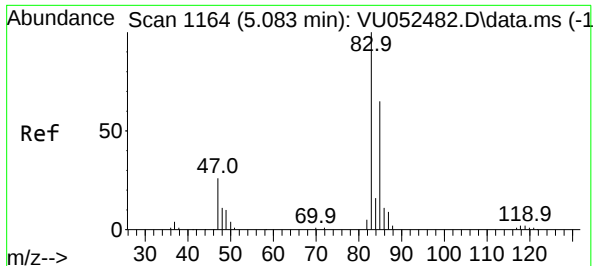
Tgt Ion: 96 Resp: 67321
Ion Ratio Lower Upper
96 100
61 136.9 96.9 180.1
98 61.5 44.7 83.1



#23
Bromochloromethane
Concen: 5.833 ug/L
RT: 4.970 min Scan# 1129
Delta R.T. -0.007 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

Tgt Ion:128 Resp: 37844
Ion Ratio Lower Upper
128 100
49 202.9 143.3 266.1
130 126.3 88.4 164.2
51 63.0 53.2 79.8





#25

Chloroform

Concen: 9.181 ug/L

RT: 5.083 min Scan# 1164

Delta R.T. -0.003 min

Lab File: VU052487.D

Acq: 22 Dec 2022 13:31

Instrument :

MSVOA_U

ClientSampleId :

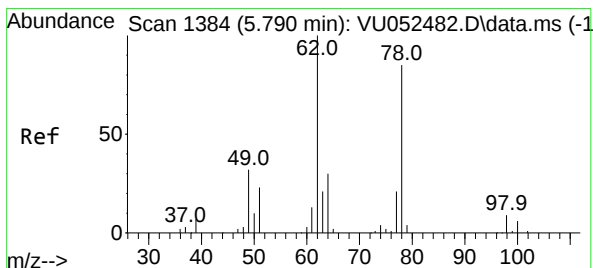
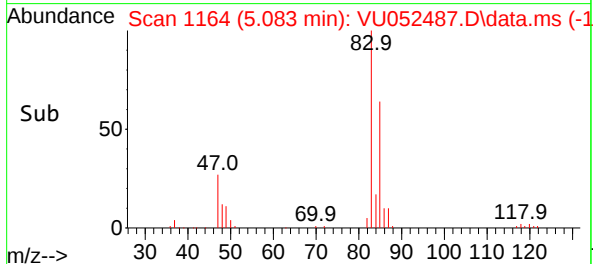
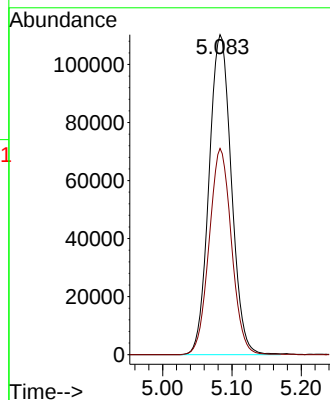
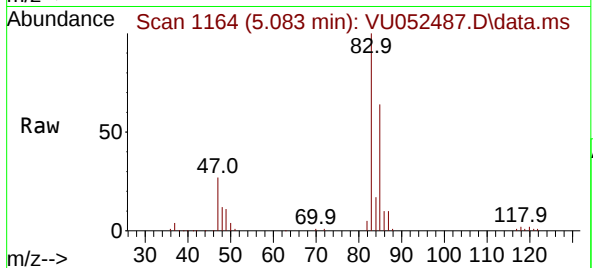
GBQC0

Tgt Ion: 83 Resp: 246799

Ion Ratio Lower Upper

83 100

85 64.4 44.7 83.1



#27

1,2-Dichloroethane

Concen: 2.262 ug/L

RT: 5.790 min Scan# 1384

Delta R.T. -0.003 min

Lab File: VU052487.D

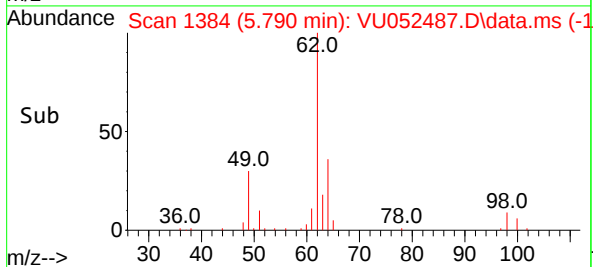
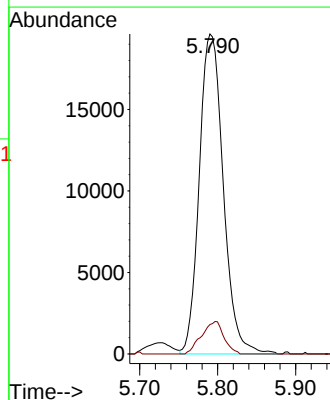
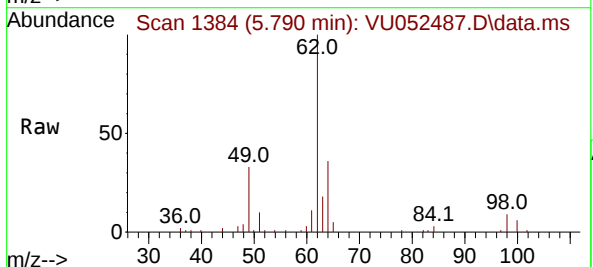
Acq: 22 Dec 2022 13:31

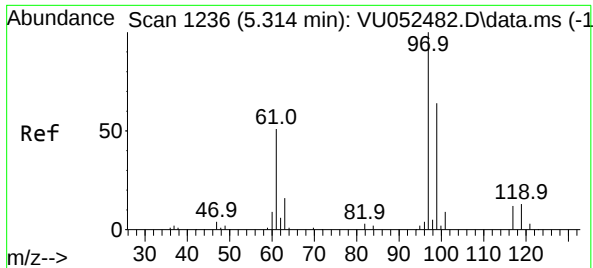
Tgt Ion: 62 Resp: 42009

Ion Ratio Lower Upper

62 100

98 9.2 7.4 11.2

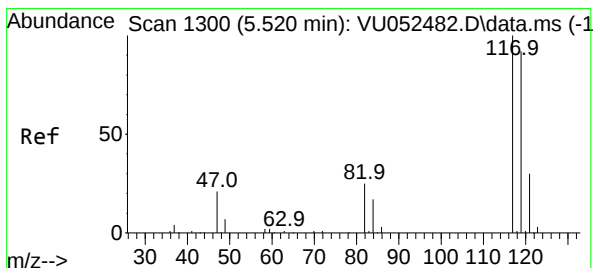
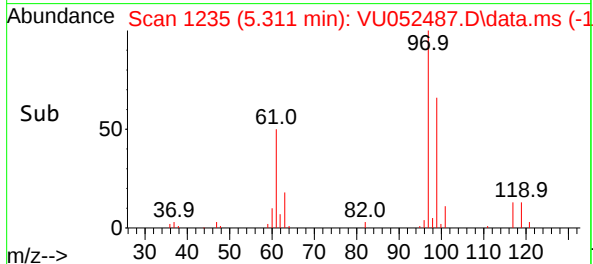
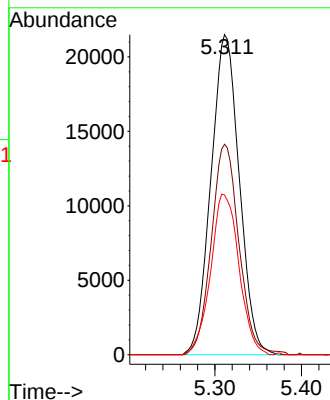
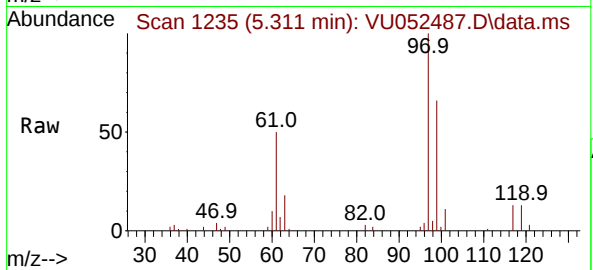




#29
1,1,1-Trichloroethane
Concen: 2.324 ug/L
RT: 5.311 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

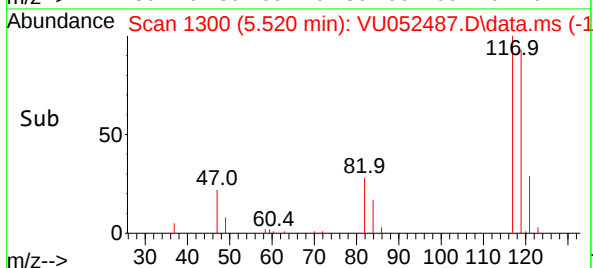
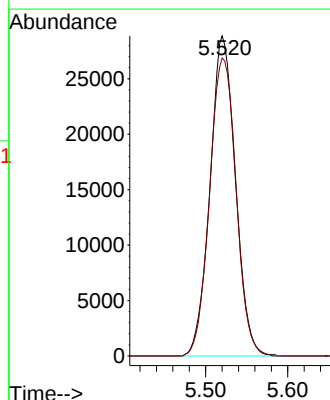
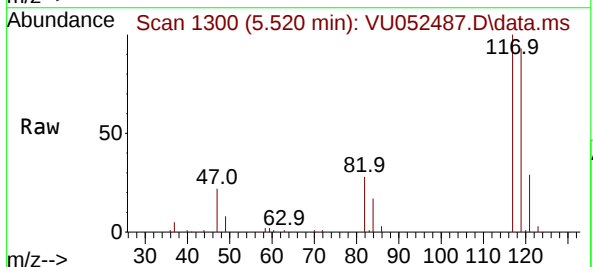
Instrument :
MSVOA_U
ClientSampleId :
GBQC0

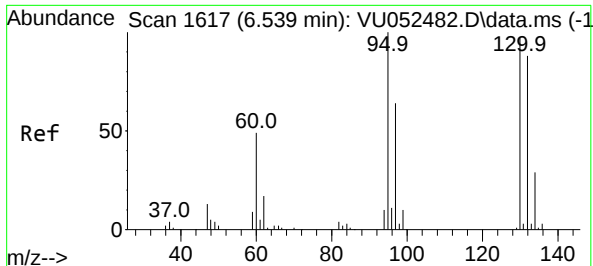
Tgt Ion: 97 Resp: 48848
Ion Ratio Lower Upper
97 100
99 64.3 52.2 78.2
61 50.1 41.6 62.4



#31
Carbon tetrachloride
Concen: 3.366 ug/L
RT: 5.520 min Scan# 1300
Delta R.T. -0.003 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

Tgt Ion: 117 Resp: 62155
Ion Ratio Lower Upper
117 100
119 96.9 76.3 114.5

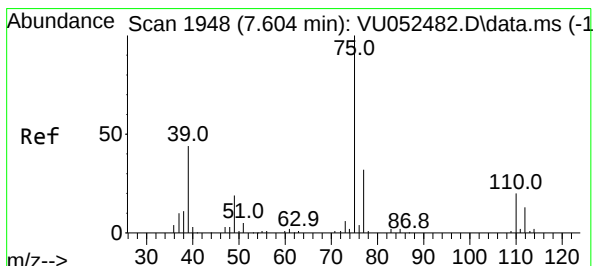
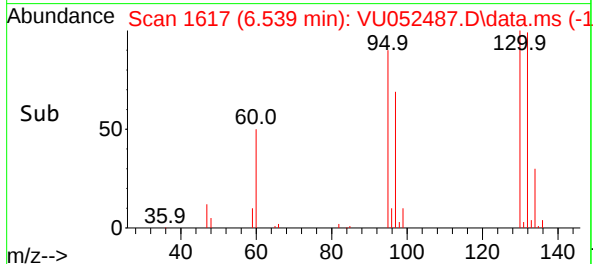
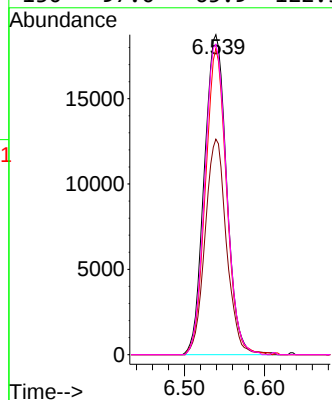
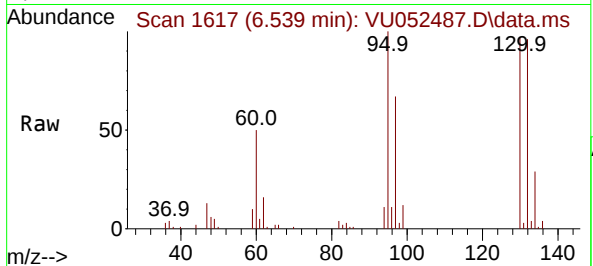




#34
Trichloroethene
Concen: 2.595 ug/L
RT: 6.539 min Scan# 1617
Delta R.T. -0.000 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

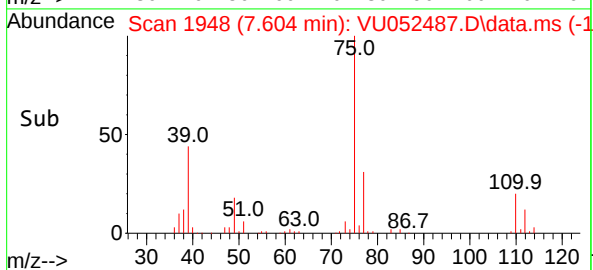
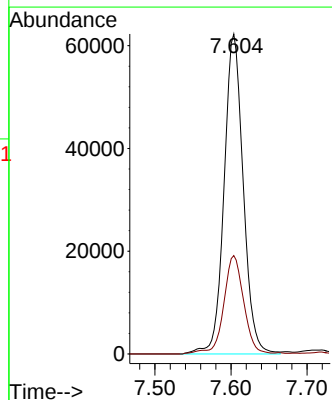
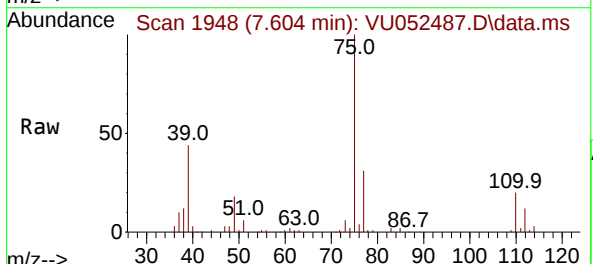
Instrument :
MSVOA_U
ClientSampleId :
GBQC0

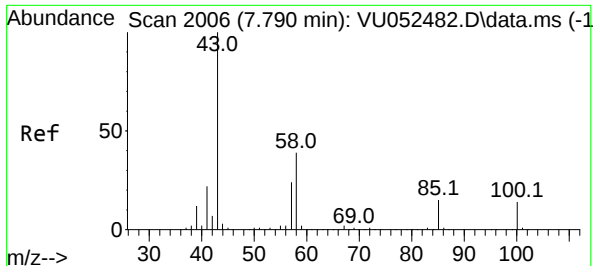
Tgt Ion: 95 Resp: 36480
Ion Ratio Lower Upper
95 100
97 67.4 46.3 86.1
132 95.6 63.9 118.7
130 97.0 65.9 122.5



#39
cis-1,3-Dichloropropene
Concen: 5.128 ug/L
RT: 7.604 min Scan# 1948
Delta R.T. -0.003 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

Tgt Ion: 75 Resp: 109008
Ion Ratio Lower Upper
75 100
77 30.8 22.0 41.0





#40

4-Methyl-2-pentanone

Concen: 66.091 ug/L

RT: 7.787 min Scan# 2005

Delta R.T. -0.003 min

Lab File: VU052487.D

Acq: 22 Dec 2022 13:31

Instrument :

MSVOA_U

ClientSampleId :

GBQC0

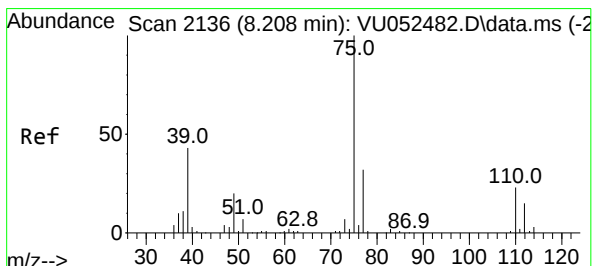
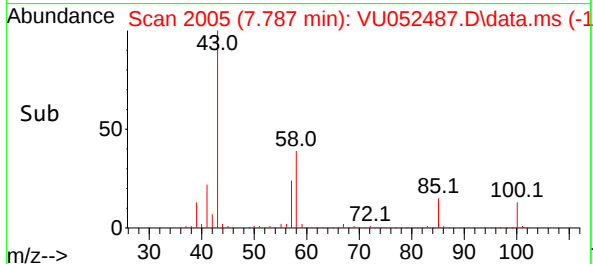
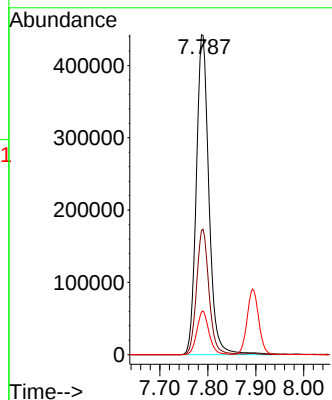
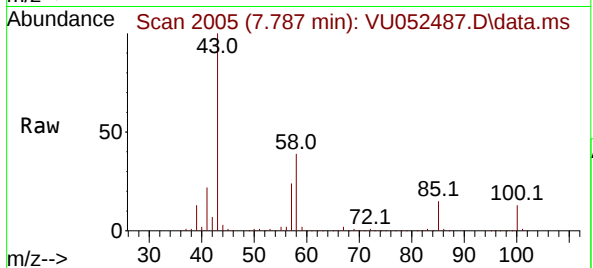
Tgt Ion: 43 Resp: 810557

Ion Ratio Lower Upper

43 100

58 38.6 30.6 45.8

100 13.2 10.4 15.6



#44

trans-1,3-Dichloropropene

Concen: 2.614 ug/L

RT: 8.208 min Scan# 2136

Delta R.T. -0.000 min

Lab File: VU052487.D

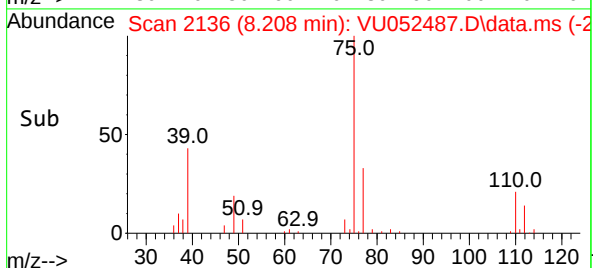
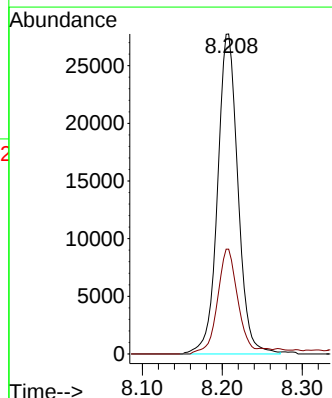
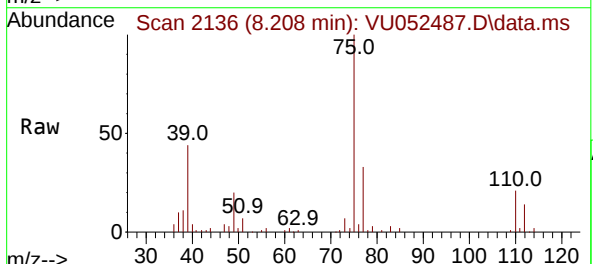
Acq: 22 Dec 2022 13:31

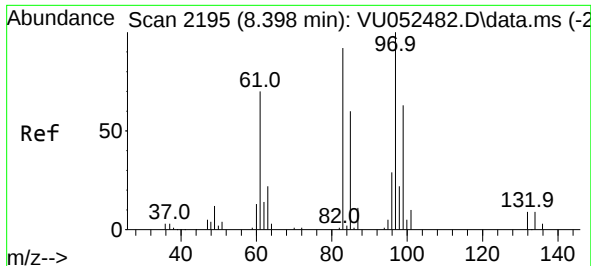
Tgt Ion: 75 Resp: 48956

Ion Ratio Lower Upper

75 100

77 32.8 22.8 42.4

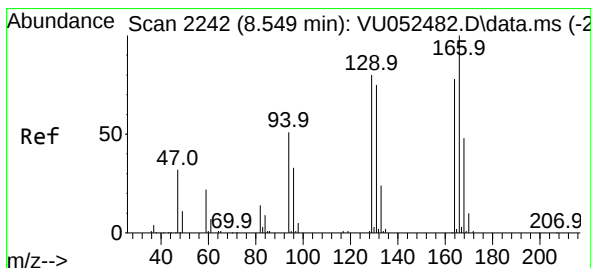
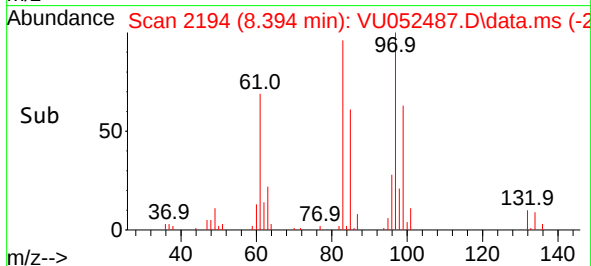
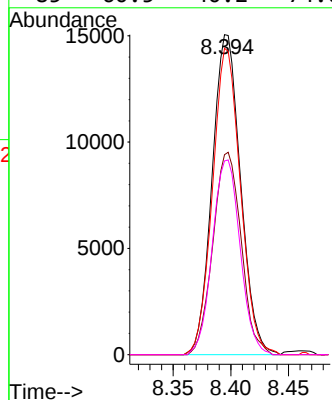
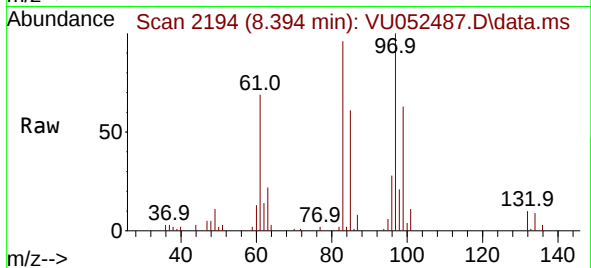




#45
1,1,2-Trichloroethane
Concen: 2.166 ug/L
RT: 8.394 min Scan# 2194
Delta R.T. -0.003 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

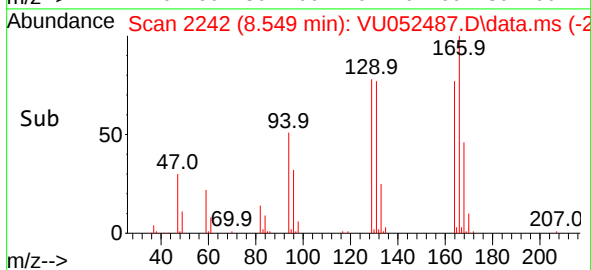
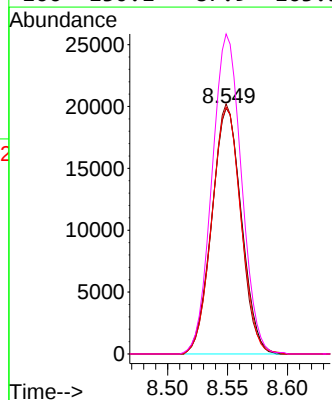
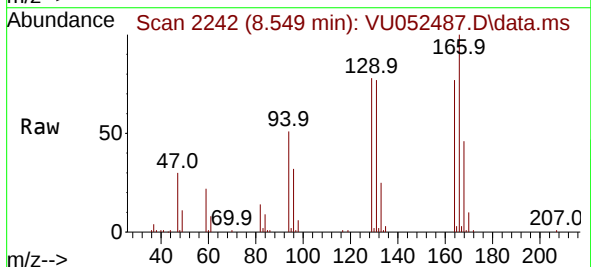
Instrument :
MSVOA_U
ClientSampleId :
GBQC0

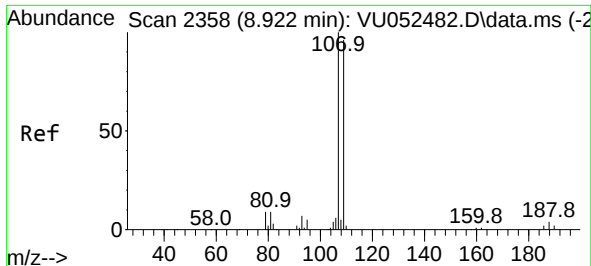
Tgt Ion:	97	Resp:	25741
Ion	Ratio	Lower	Upper
97	100		
99	62.5	42.0	78.0
83	95.7	63.2	117.4
85	60.5	40.2	74.6



#47
Tetrachloroethene
Concen: 3.468 ug/L
RT: 8.549 min Scan# 2242
Delta R.T. -0.003 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

Tgt Ion:	164	Resp:	34039
Ion	Ratio	Lower	Upper
164	100		
129	101.7	68.1	126.5
131	100.2	66.5	123.5
166	130.1	87.9	163.3





#50

1,2-Dibromoethane

Concen: 5.448 ug/L

RT: 8.919 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU052487.D

Acq: 22 Dec 2022 13:31

Instrument :

MSVOA_U

ClientSampleId :

GBQC0

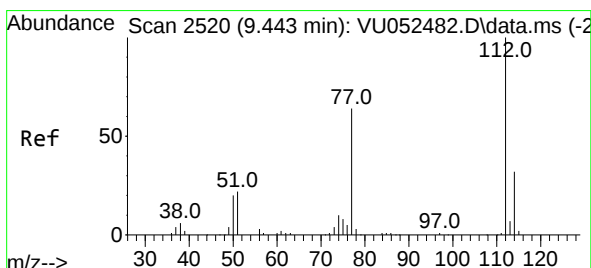
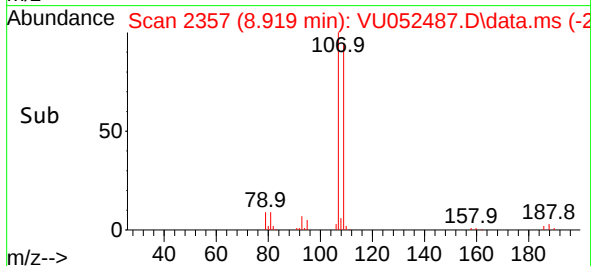
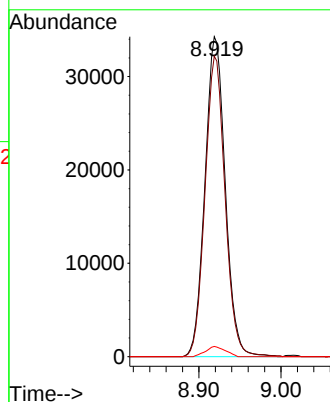
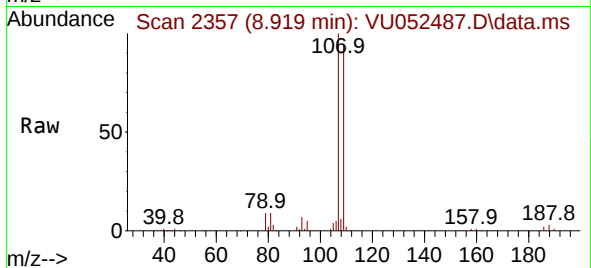
Tgt Ion:107 Resp: 58871

Ion Ratio Lower Upper

107 100

109 93.9 65.8 122.2

188 3.2 2.3 3.5



#51

Chlorobenzene

Concen: 6.666 ug/L

RT: 9.443 min Scan# 2520

Delta R.T. -0.000 min

Lab File: VU052487.D

Acq: 22 Dec 2022 13:31

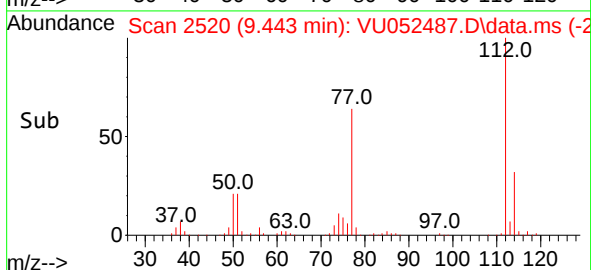
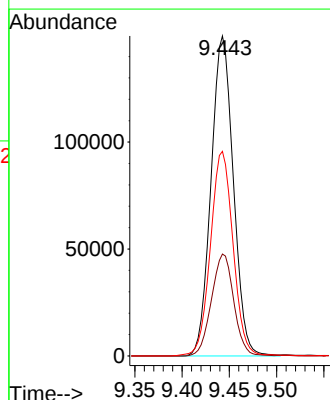
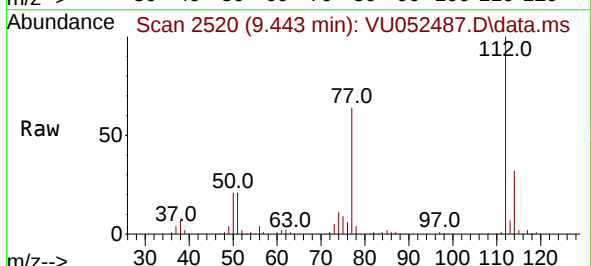
Tgt Ion:112 Resp: 245482

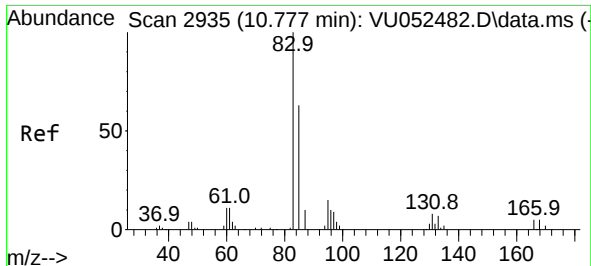
Ion Ratio Lower Upper

112 100

114 31.8 21.3 39.5

77 63.9 51.0 76.6





#57

1,1,2,2-Tetrachloroethane

Concen: 1.656 ug/L

RT: 10.777 min Scan# 2935

Delta R.T. -0.000 min

Lab File: VU052487.D

Acq: 22 Dec 2022 13:31

Instrument :

MSVOA_U

ClientSampleId :

GBQC0

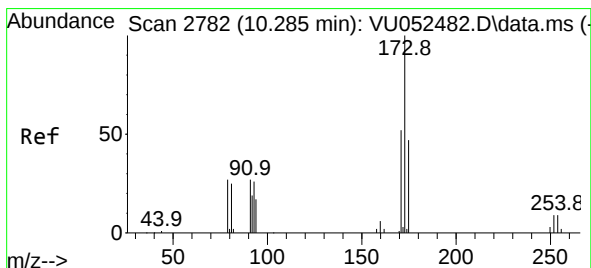
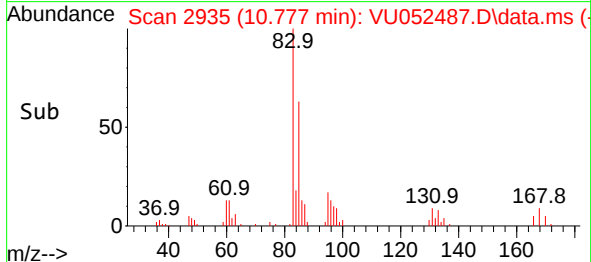
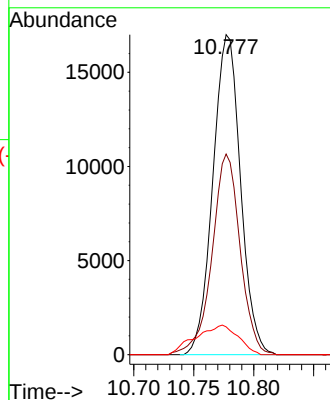
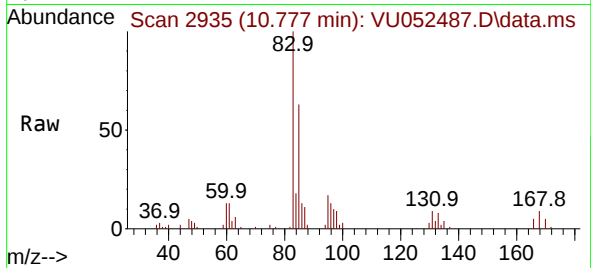
Tgt Ion: 83 Resp: 27215

Ion Ratio Lower Upper

83 100

85 62.7 44.7 83.1

131 8.7 6.0 9.0



#59

Bromoform

Concen: 3.135 ug/L

RT: 10.285 min Scan# 2782

Delta R.T. -0.003 min

Lab File: VU052487.D

Acq: 22 Dec 2022 13:31

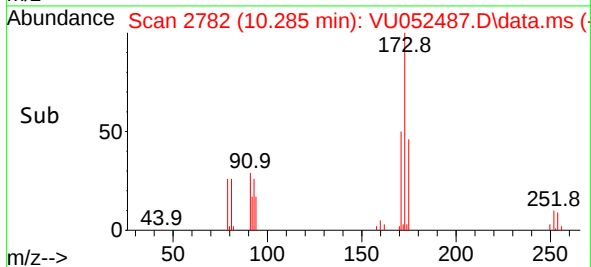
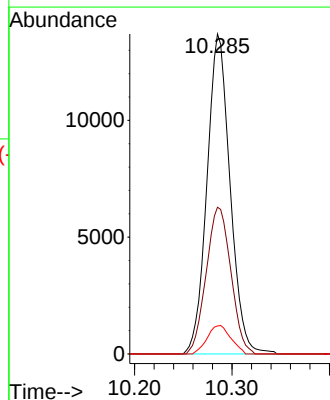
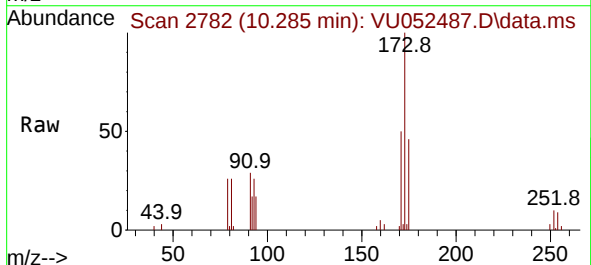
Tgt Ion:173 Resp: 22571

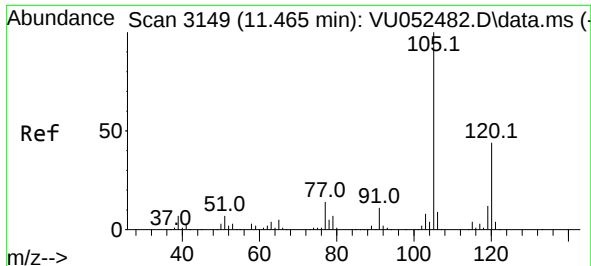
Ion Ratio Lower Upper

173 100

175 48.8 38.9 58.3

254 9.1 7.0 10.6

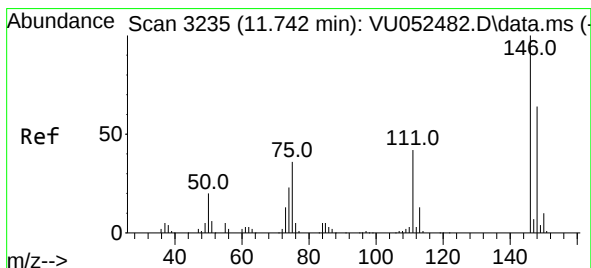
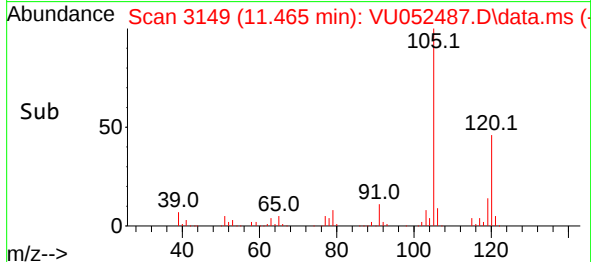
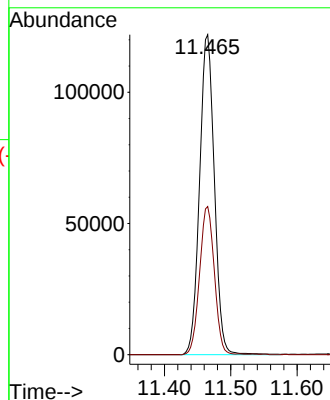
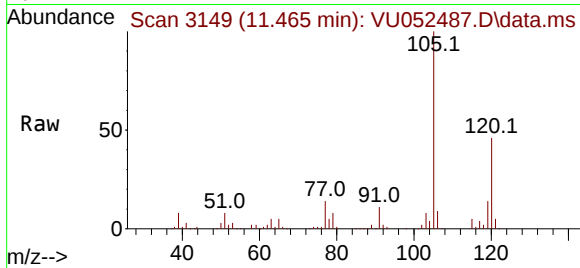




#63
1,2,4-Trimethylbenzene
Concen: 4.284 ug/L
RT: 11.465 min Scan# 3149
Delta R.T. -0.000 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

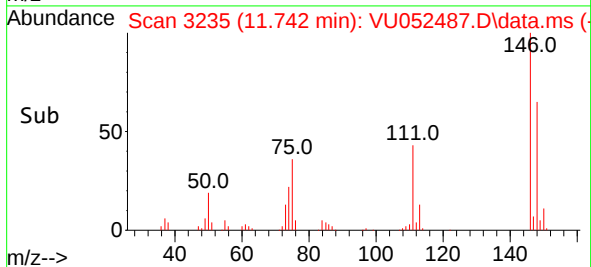
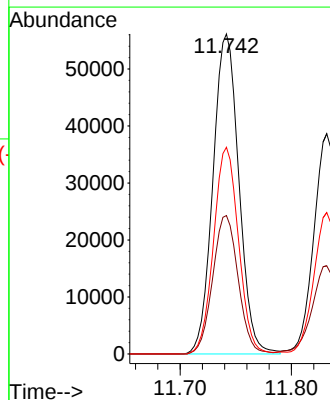
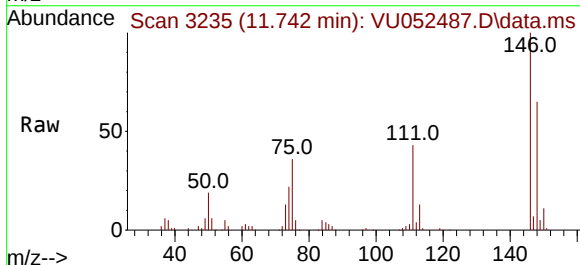
Instrument :
MSVOA_U
ClientSampleId :
GBQC0

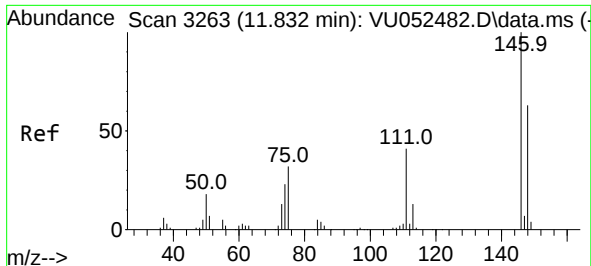
Tgt Ion:105 Resp: 188907
Ion Ratio Lower Upper
105 100
120 46.2 35.6 53.4



#64
1,3-Dichlorobenzene
Concen: 3.440 ug/L
RT: 11.742 min Scan# 3235
Delta R.T. -0.000 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

Tgt Ion:146 Resp: 90646
Ion Ratio Lower Upper
146 100
111 43.2 29.9 55.5
148 64.6 43.4 80.6

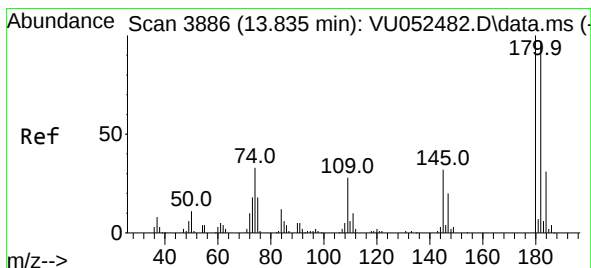
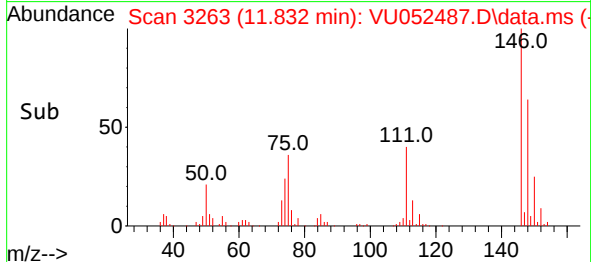
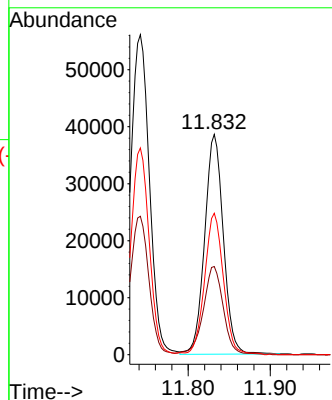
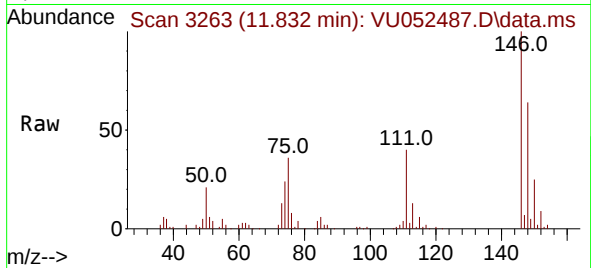




#65
1,4-Dichlorobenzene
Concen: 2.241 ug/L
RT: 11.832 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

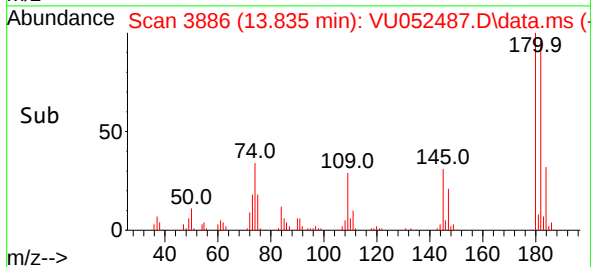
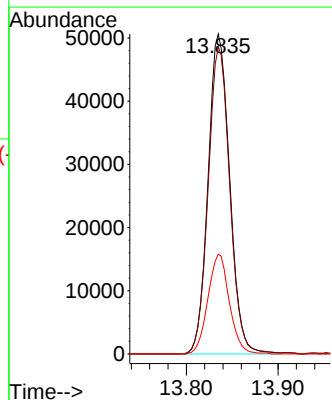
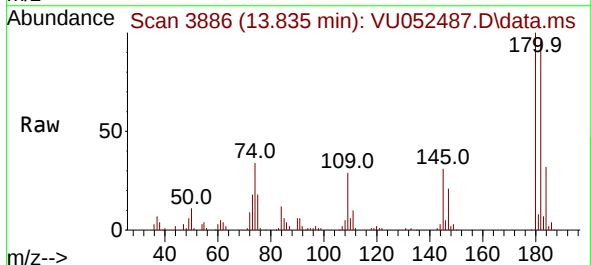
Instrument :
MSVOA_U
ClientSampleId :
GBQC0

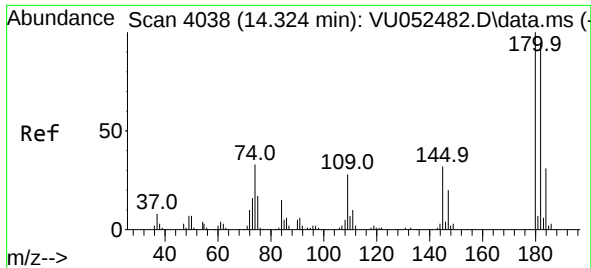
Tgt Ion:146 Resp: 61066
Ion Ratio Lower Upper
146 100
111 40.0 27.5 51.1
148 64.2 44.9 83.3



#70
1,2,4-trichlorobenzene
Concen: 5.077 ug/L
RT: 13.835 min Scan# 3886
Delta R.T. -0.000 min
Lab File: VU052487.D
Acq: 22 Dec 2022 13:31

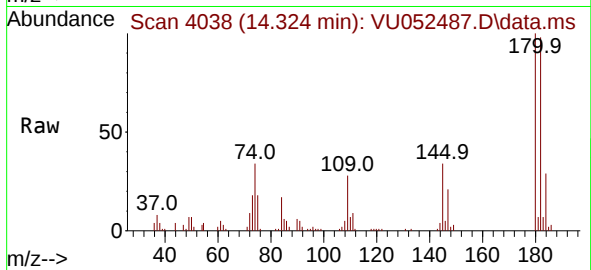
Tgt Ion:180 Resp: 82908
Ion Ratio Lower Upper
180 100
182 96.0 77.7 116.5
145 30.9 24.0 36.0





#72
 1,2,3-Trichlorobenzene
 Concen: 2.820 ug/L
 RT: 14.324 min Scan# 40
 Delta R.T. -0.000 min
 Lab File: VU052487.D
 Acq: 22 Dec 2022 13:31

Instrument :
 MSVOA_U
 ClientSampleId :
 GBQC0



Tgt Ion:180 Resp: 46151
 Ion Ratio Lower Upper
 180 100
 182 97.1 76.3 114.5
 145 32.7 25.8 38.8

