

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU102723\
 Data File : VU055923.D
 Acq On : 27 Oct 2023 15:02
 Operator : MD/SY
 Sample : 05009-18
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 A4AA3

Quant Time: Oct 27 23:55:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR102423WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Oct 25 05:19:13 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	382674	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	366940	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	189868	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.599	65	109378	3.613	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.200%
7) Chloroethane-d5	1.914	69	87464	3.707	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	74.200%
11) 1,1-Dichloroethene-d2	2.563	65	51255	3.988	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	79.800%
20) 2-Butanone-d5	4.624	46	202362	37.472	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	74.940%
24) Chloroform-d	5.058	84	239372	4.267	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.400%
26) 1,2-Dichloroethane-d4	5.698	65	104301	3.817	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.400%
32) Benzene-d6	5.724	84	471023	4.309	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.200%
36) 1,2-Dichloropropane-d6	6.685	67	138685	4.280	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	85.600%
41) Toluene-d8	7.894	98	442937	4.467	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.400%
43) trans-1,3-Dichloroprop...	8.177	79	52090	4.110	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.200%
46) 2-Hexanone-d5	8.631	63	176483	54.860	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	109.720%
56) 1,1,2,2-Tetrachloroeth...	10.753	84	96018	4.069	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.400%
66) 1,2-Dichlorobenzene-d4	12.190	152	148210	4.184	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.383	85	87688	4.021	ug/L	99
5) Vinyl chloride	1.602	62	93026	4.056	ug/L	100
8) Chloroethane	1.933	64	191491	14.248	ug/L	97
10) 1,1,2-Trichloro-1,2,2-...	2.579	101	222888	10.726	ug/L	100
12) 1,1-Dichloroethene	2.579	96	42611	2.297	ug/L #	76
13) Acetone	2.634	43	547264	177.832	ug/L	96
15) Methyl Acetate	2.952	43	63468	10.123	ug/L	98
16) Methylene chloride	3.049	84	11866	0.565	ug/L	89
18) trans-1,2-Dichloroethene	3.351	96	56384	3.066	ug/L	99
19) 1,1-Dichloroethane	3.865	63	81445	2.181	ug/L	97
22) cis-1,2-Dichloroethene	4.663	96	92077	4.135	ug/L	95
23) Bromochloromethane	4.972	128	48430	5.339	ug/L	98
25) Chloroform	5.081	83	324401	8.103	ug/L	98
27) 1,2-Dichloroethane	5.791	62	43286	1.840	ug/L #	93
29) 1,1,1-Trichloroethane	5.312	97	70358	2.104	ug/L	98
31) Carbon tetrachloride	5.521	117	89976	3.154	ug/L	96
34) Trichloroethene	6.541	95	54146	2.390	ug/L	96
39) cis-1,3-Dichloropropene	7.605	75	143466	4.684	ug/L	96
40) 4-Methyl-2-pentanone	7.785	43	646890	62.413	ug/L	98

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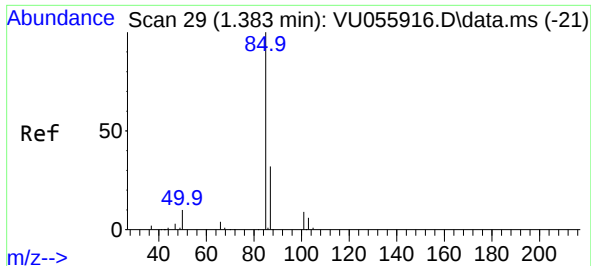
Instrument :
 MSVOA_U
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Quant Time: Oct 27 23:55:26 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR102423WMA.M
 Quant Title : TRACE VOA SFAM1.0
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 Response via : Initial Calibration

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

44) trans-1,3-Dichloropropene	8.206	75	57603	2.330	ug/L	99
45) 1,1,2-Trichloroethane	8.396	97	29880	1.976	ug/L	96
47) Tetrachloroethene	8.550	164	53856	3.395	ug/L	96
50) 1,2-Dibromoethane	8.920	107	69879	5.094	ug/L #	98
51) Chlorobenzene	9.441	112	354365	6.389	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.778	83	27193	1.554	ug/L	90
59) Bromoform	10.286	173	28951	2.997	ug/L	98
63) 1,2,4-Trimethylbenzene	11.463	105	364491	5.074	ug/L	99
64) 1,3-Dichlorobenzene	11.743	146	142626	3.180	ug/L	99
65) 1,4-Dichlorobenzene	11.833	146	95540	2.134	ug/L	97
70) 1,2,4-trichlorobenzene	13.836	180	139391	6.153	ug/L	99
72) 1,2,3-Trichlorobenzene	14.328	180	70180	3.593	ug/L	98

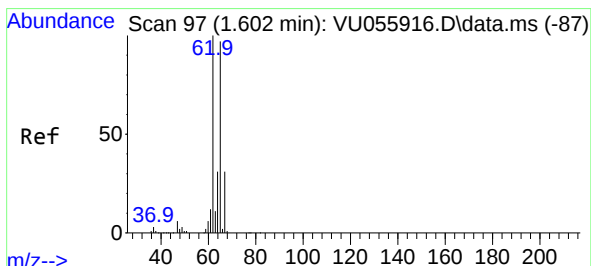
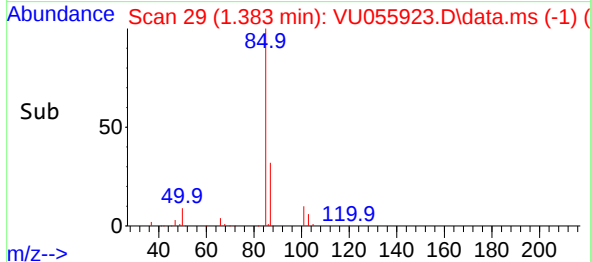
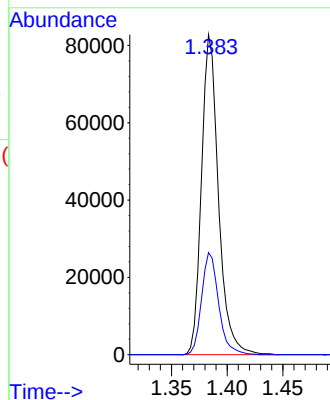
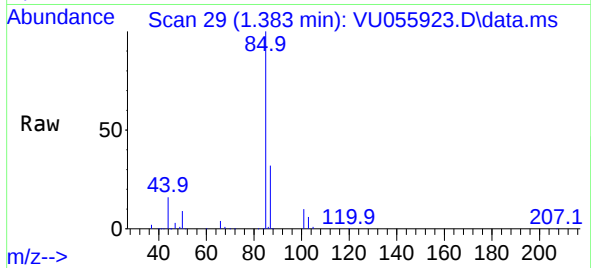
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#2
Dichlorodifluoromethane
Concen: 4.021 ug/L
RT: 1.383 min Scan# 29
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

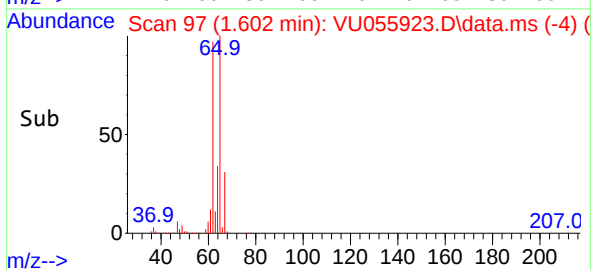
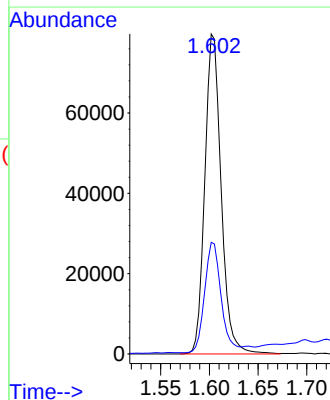
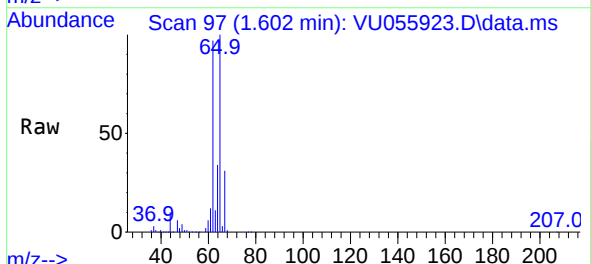
Instrument :
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ClientSampleId :
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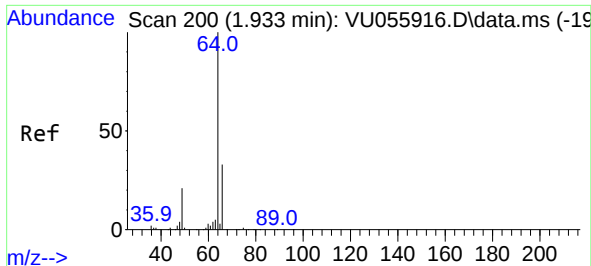
Tgt Ion: 85 Resp: 87688
Ion Ratio Lower Upper
85 100
87 31.9 25.0 37.4



#5
Vinyl chloride
Concen: 4.056 ug/L
RT: 1.602 min Scan# 97
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

Tgt Ion: 62 Resp: 93026
Ion Ratio Lower Upper
62 100
64 34.9 24.2 45.0

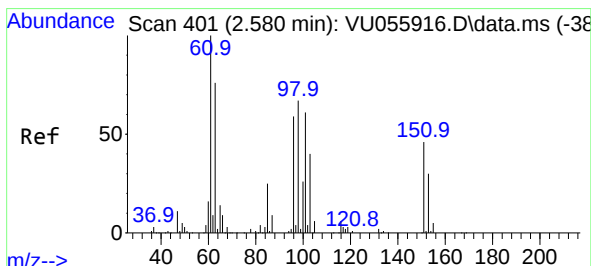
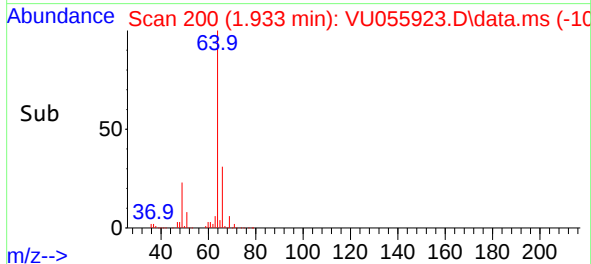
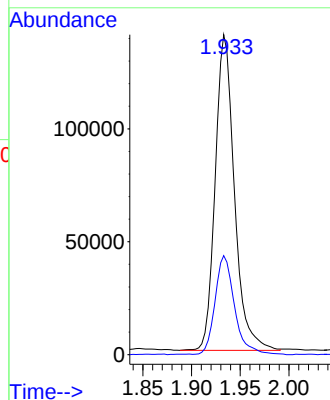
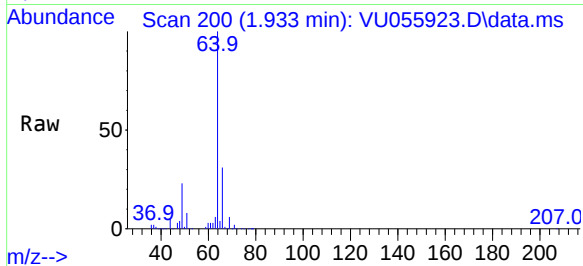




#8
Chloroethane
Concen: 14.248 ug/L
RT: 1.933 min Scan# 200
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

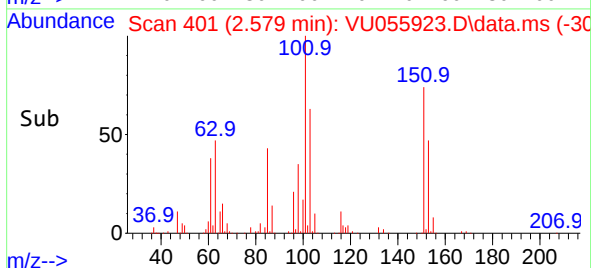
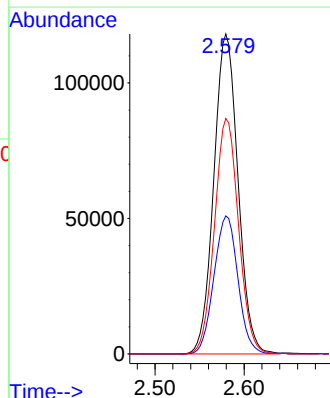
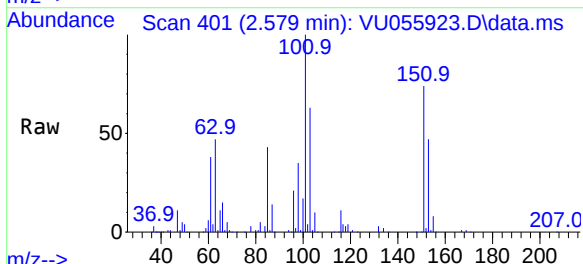
Instrument :
MSVOA_U
ClientSampleId :
A4AA3

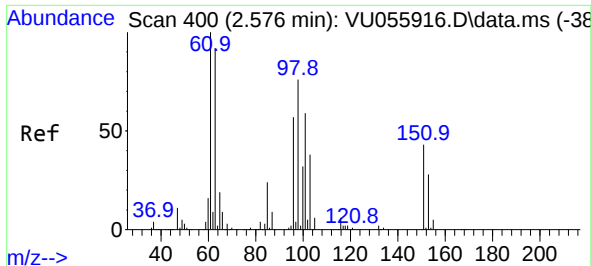
Tgt Ion: 64 Resp: 191491
Ion Ratio Lower Upper
64 100
66 31.0 22.7 42.1



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 10.726 ug/L
RT: 2.579 min Scan# 401
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

Tgt Ion:101 Resp: 222888
Ion Ratio Lower Upper
101 100
85 42.9 34.4 51.6
151 73.4 58.4 87.6





#12

1,1-Dichloroethene

Concen: 2.297 ug/L

RT: 2.579 min Scan# 400

Delta R.T. 0.003 min

Lab File: VU055923.D

Acq: 27 Oct 2023 15:02

Instrument :

MSVOA_U

ClientSampleId :

A4AA3

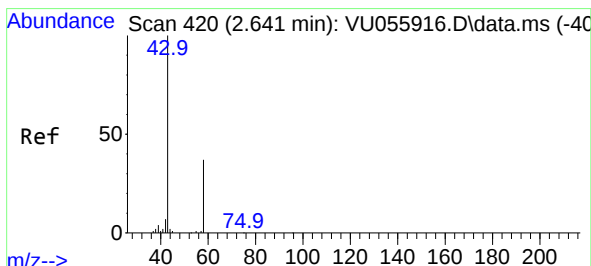
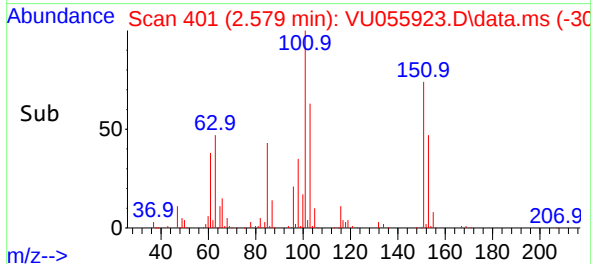
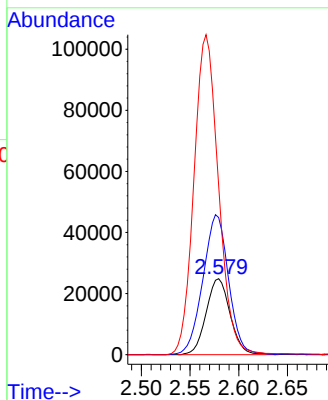
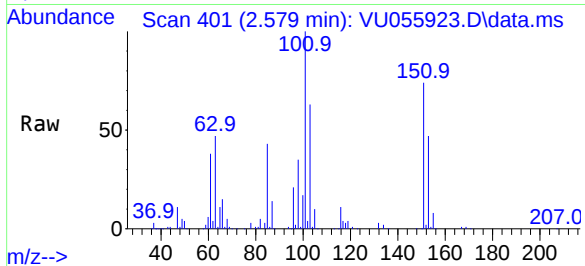
Tgt Ion: 96 Resp: 42611

Ion Ratio Lower Upper

96 100

61 180.6 123.8 230.0

63 222.4 111.0 206.2#



#13

Acetone

Concen: 177.832 ug/L

RT: 2.634 min Scan# 418

Delta R.T. -0.013 min

Lab File: VU055923.D

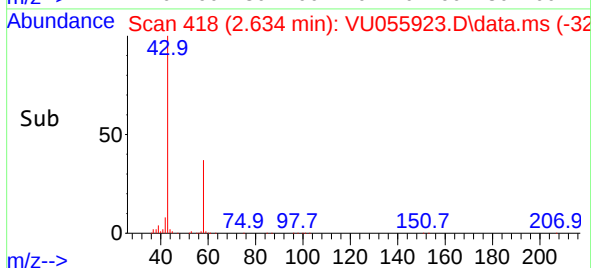
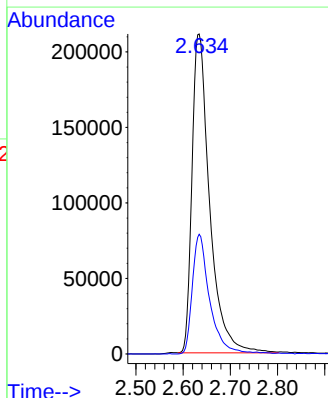
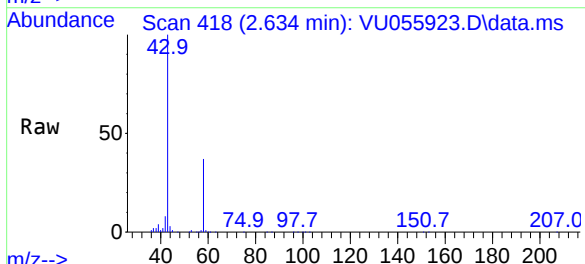
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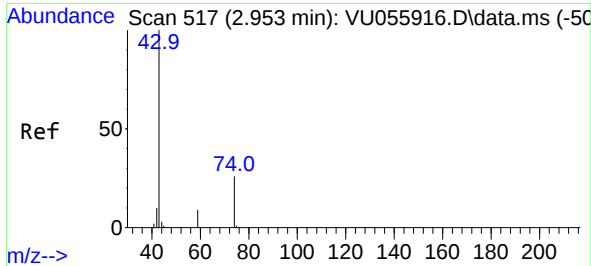
Tgt Ion: 43 Resp: 547264

Ion Ratio Lower Upper

43 100

58 36.7 0.0 69.0

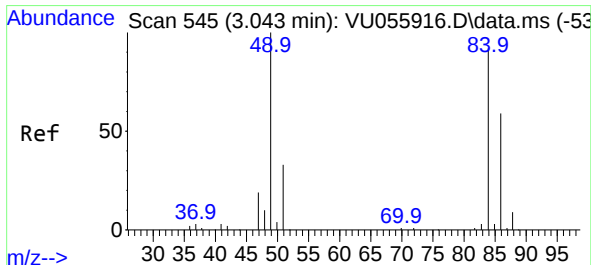
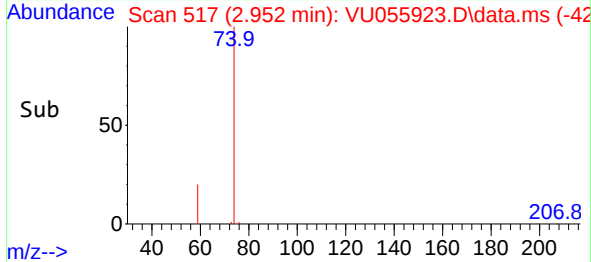
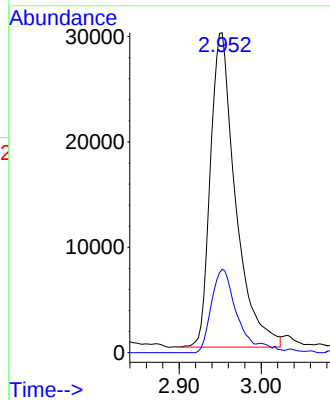
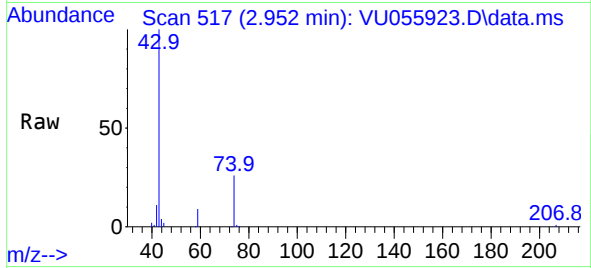




#15
Methyl Acetate
Concen: 10.123 ug/L
RT: 2.952 min Scan# 517
Delta R.T. -0.003 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

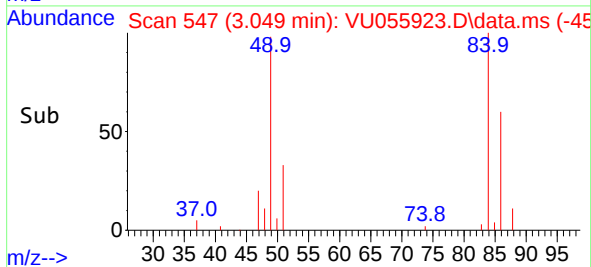
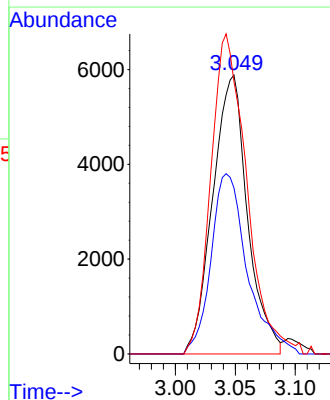
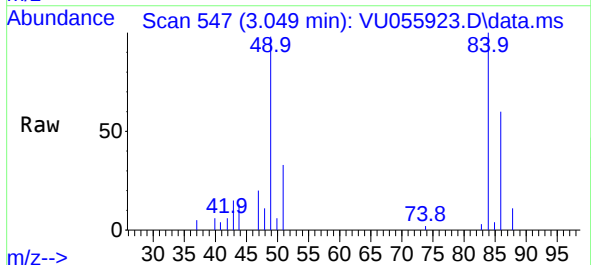
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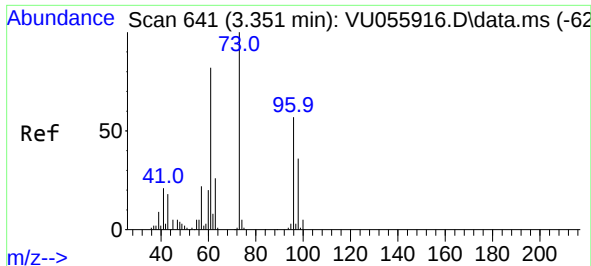
Tgt Ion: 43 Resp: 63468
Ion Ratio Lower Upper
43 100
74 25.7 19.9 29.9



#16
Methylene chloride
Concen: 0.565 ug/L
RT: 3.049 min Scan# 547
Delta R.T. 0.006 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

Tgt Ion: 84 Resp: 11866
Ion Ratio Lower Upper
84 100
86 59.6 45.2 84.0
49 97.7 78.8 146.3

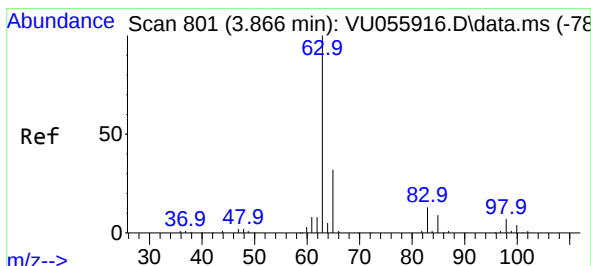
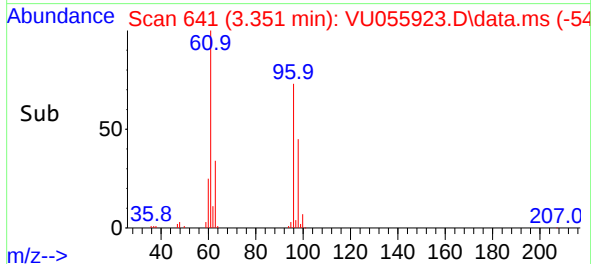
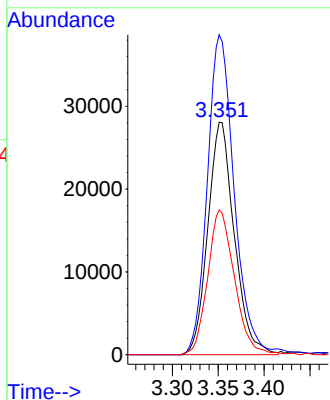
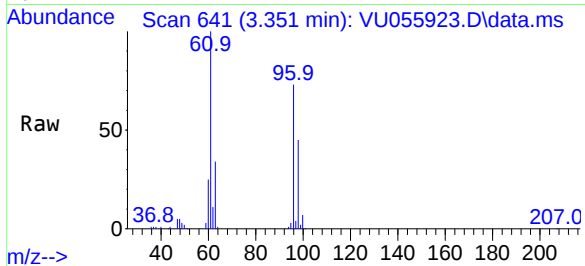




#18
trans-1,2-Dichloroethene
Concen: 3.066 ug/L
RT: 3.351 min Scan# 641
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

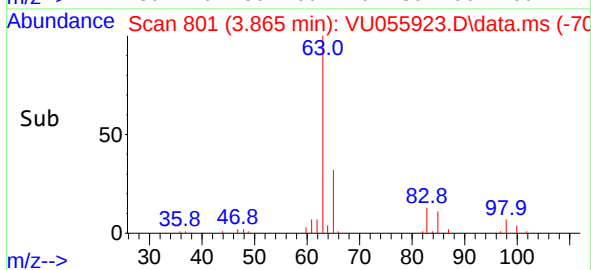
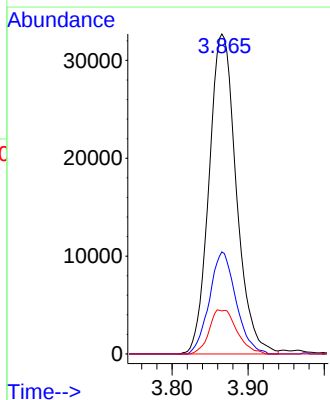
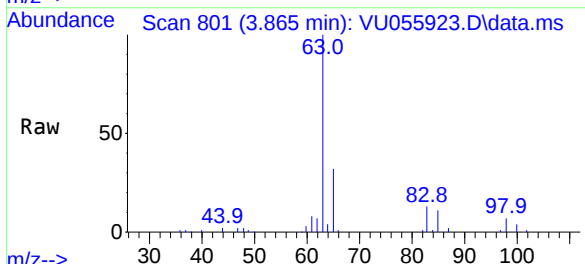
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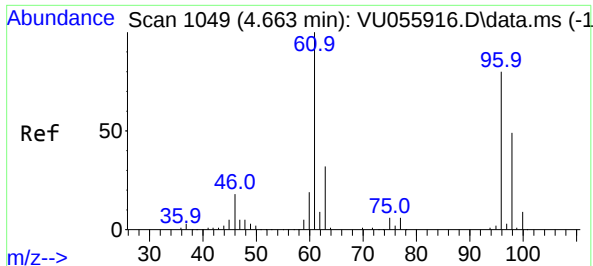
Tgt Ion: 96 Resp: 56384
Ion Ratio Lower Upper
96 100
61 137.7 97.5 181.1
98 62.2 42.7 79.3



#19
1,1-Dichloroethane
Concen: 2.181 ug/L
RT: 3.865 min Scan# 801
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

Tgt Ion: 63 Resp: 81445
Ion Ratio Lower Upper
63 100
65 31.9 23.3 43.3
83 13.4 10.5 19.5



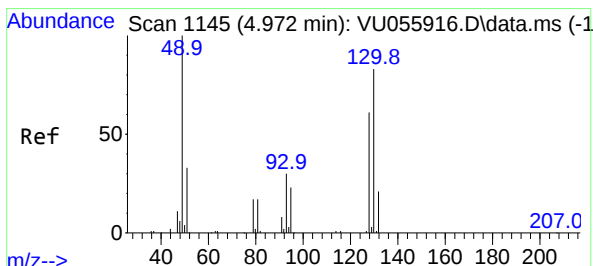
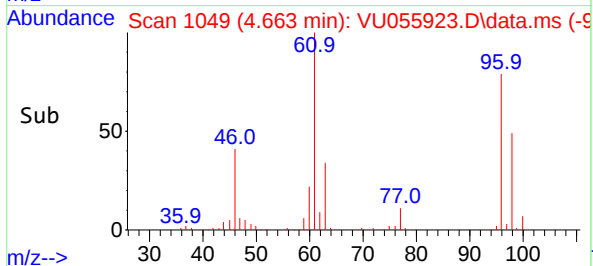
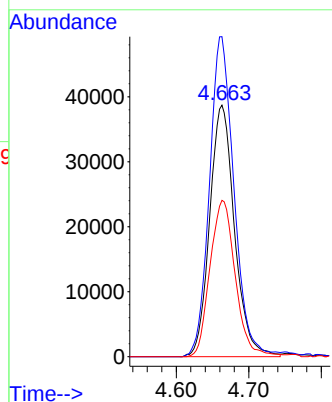
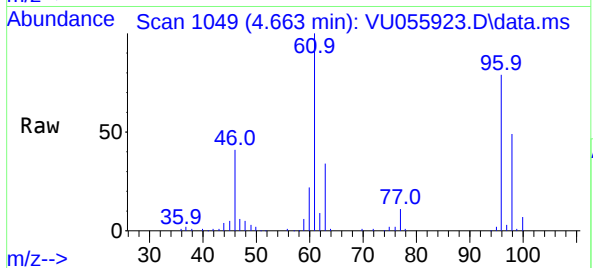


#22
 cis-1,2-Dichloroethene
 Concen: 4.135 ug/L
 RT: 4.663 min Scan# 1049
 Delta R.T. -0.000 min
 Lab File: VU055923.D
 Acq: 27 Oct 2023 15:02

Instrument :
 MSVOA_U
 ClientSampleId :
 A4AA3

Tgt Ion: 96 Resp: 92077

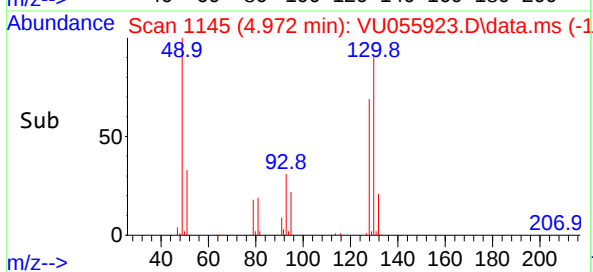
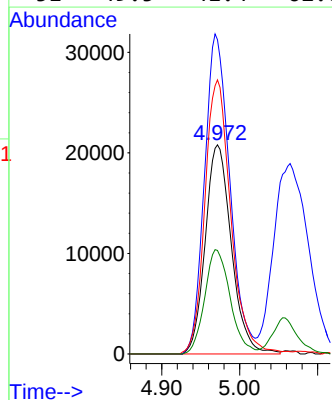
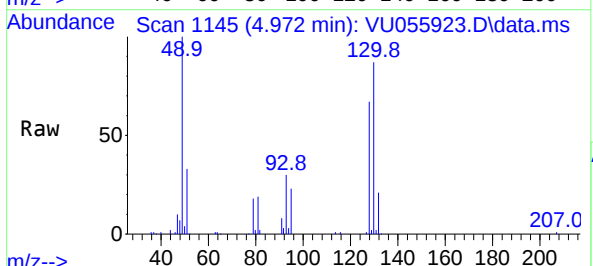
Ion	Ratio	Lower	Upper
96	100		
61	127.2	93.8	174.2
98	62.1	45.6	84.8

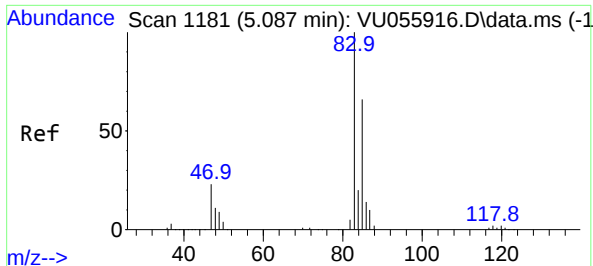


#23
 Bromochloromethane
 Concen: 5.339 ug/L
 RT: 4.972 min Scan# 1145
 Delta R.T. -0.000 min
 Lab File: VU055923.D
 Acq: 27 Oct 2023 15:02

Tgt Ion: 128 Resp: 48430

Ion	Ratio	Lower	Upper
128	100		
49	150.3	108.7	201.9
130	131.1	91.5	169.9
51	49.5	41.4	62.0





#25

Chloroform

Concen: 8.103 ug/L

RT: 5.081 min Scan# 11

Delta R.T. -0.003 min

Lab File: VU055923.D

Acq: 27 Oct 2023 15:02

Instrument :

MSVOA_U

ClientSampleId :

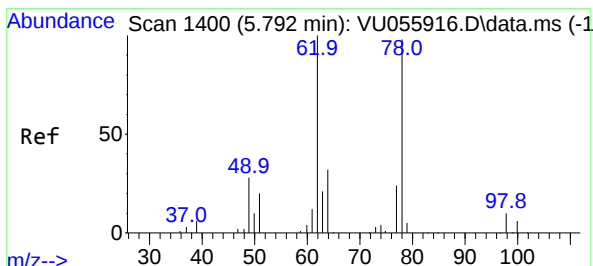
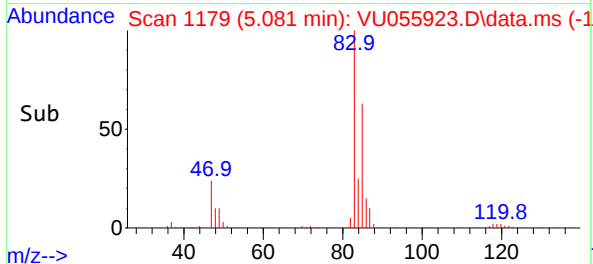
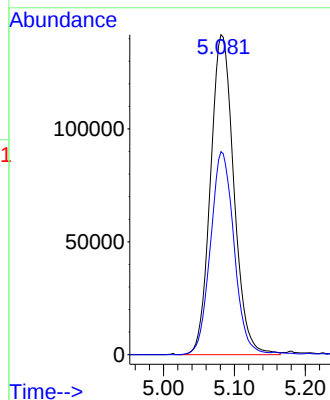
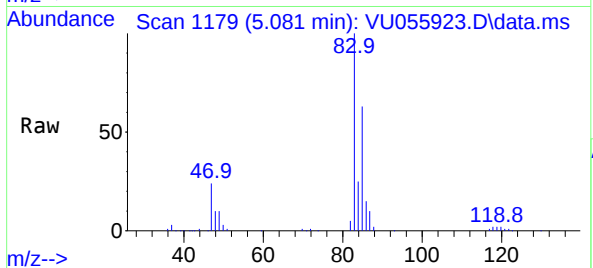
A4AA3

Tgt Ion: 83 Resp: 324401

Ion Ratio Lower Upper

83 100

85 63.5 45.6 84.8



#27

1,2-Dichloroethane

Concen: 1.840 ug/L

RT: 5.791 min Scan# 1400

Delta R.T. -0.000 min

Lab File: VU055923.D

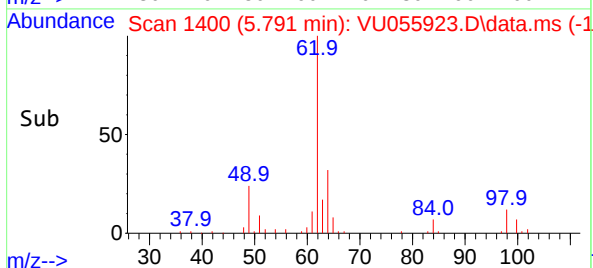
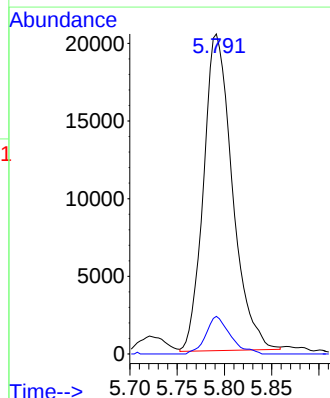
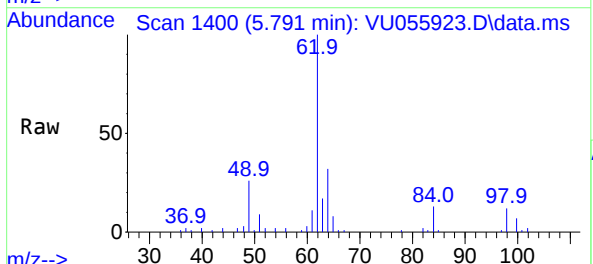
Acq: 27 Oct 2023 15:02

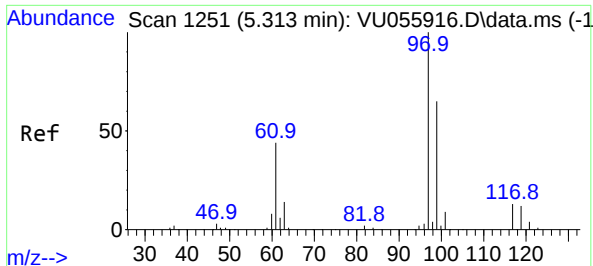
Tgt Ion: 62 Resp: 43286

Ion Ratio Lower Upper

62 100

98 11.7 7.4 11.2#

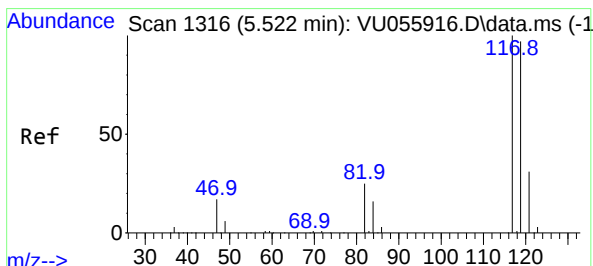
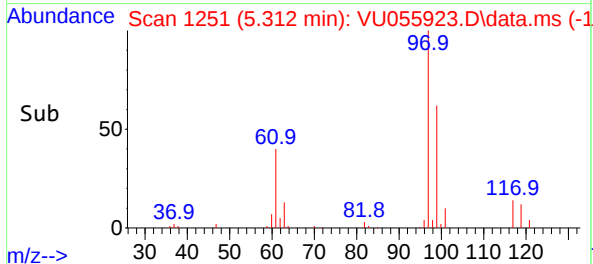
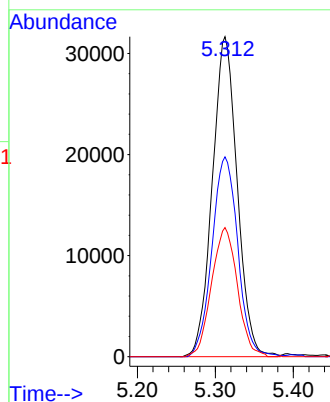
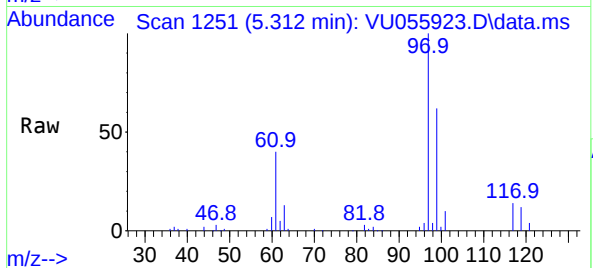




#29
1,1,1-Trichloroethane
Concen: 2.104 ug/L
RT: 5.312 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

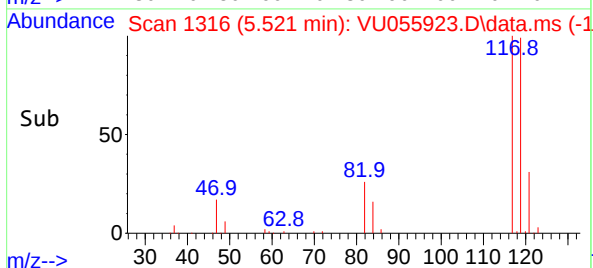
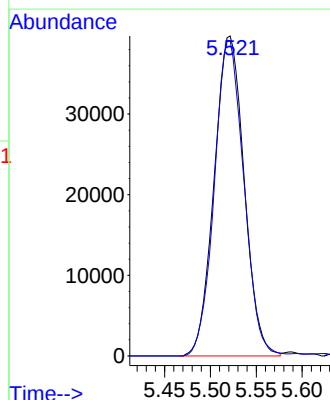
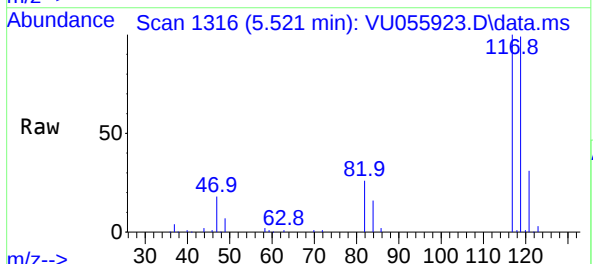
Instrument :
MSVOA_U
ClientSampleId :
A4AA3

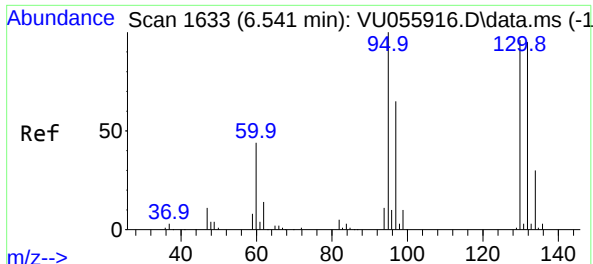
Tgt Ion: 97 Resp: 70358
Ion Ratio Lower Upper
97 100
99 64.7 50.8 76.2
61 41.9 35.0 52.4



#31
Carbon tetrachloride
Concen: 3.154 ug/L
RT: 5.521 min Scan# 1316
Delta R.T. 0.003 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

Tgt Ion: 117 Resp: 89976
Ion Ratio Lower Upper
117 100
119 97.3 75.1 112.7



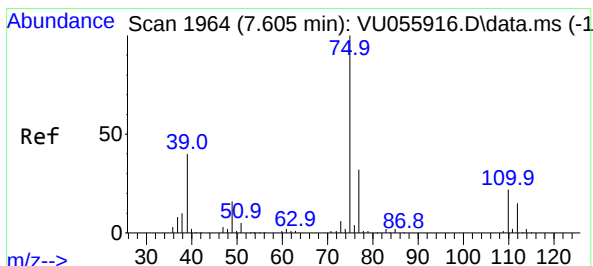
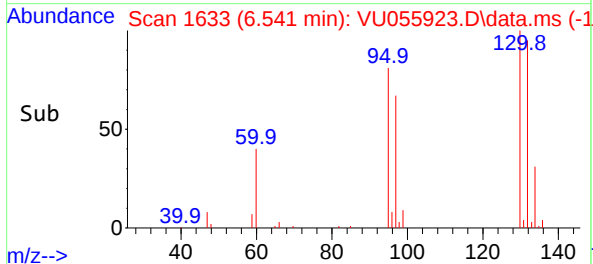
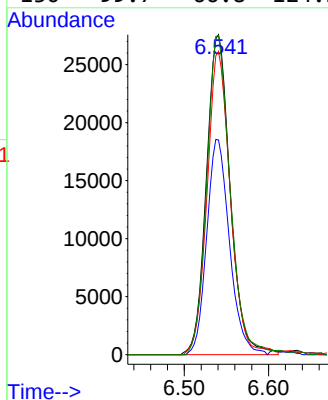
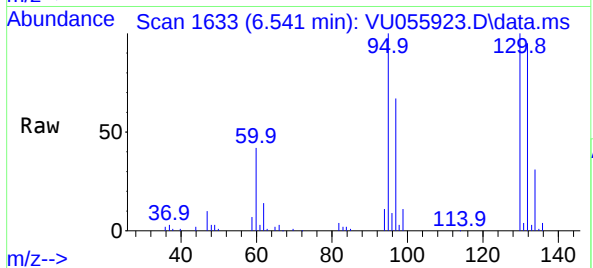


#34
Trichloroethene
Concen: 2.390 ug/L
RT: 6.541 min Scan# 1
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

Instrument :
MSVOA_U
ClientSampleId :
A4AA3

Tgt Ion: 95 Resp: 54146

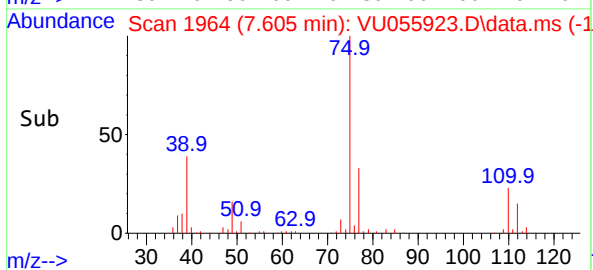
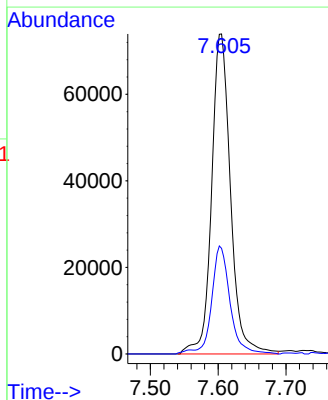
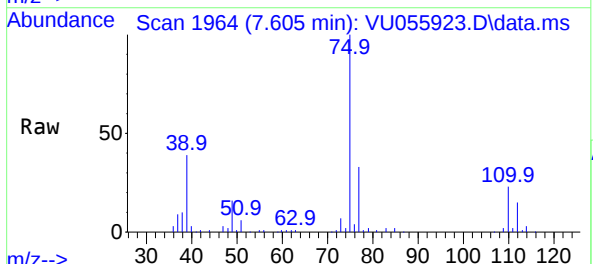
Ion	Ratio	Lower	Upper
95	100		
97	67.1	45.4	84.2
132	94.8	63.9	118.7
130	99.7	66.8	124.2

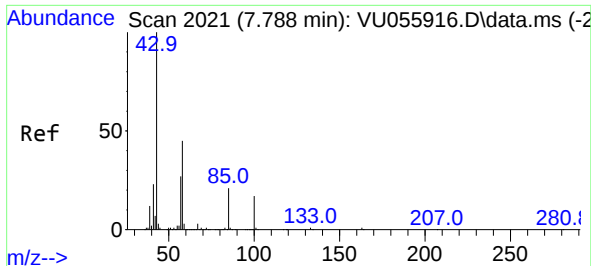


#39
cis-1,3-Dichloropropene
Concen: 4.684 ug/L
RT: 7.605 min Scan# 1964
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

Tgt Ion: 75 Resp: 143466

Ion	Ratio	Lower	Upper
75	100		
77	33.0	21.7	40.3





#40

4-Methyl-2-pentanone

Concen: 62.413 ug/L

RT: 7.785 min Scan# 2021

Delta R.T. -0.003 min

Lab File: VU055923.D

Acq: 27 Oct 2023 15:02

Instrument :

MSVOA_U

ClientSampleId :

A4AA3

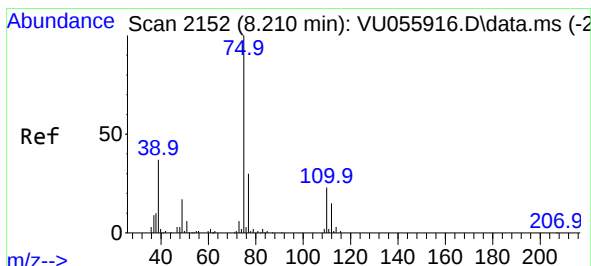
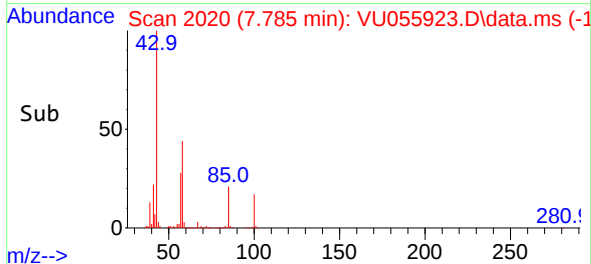
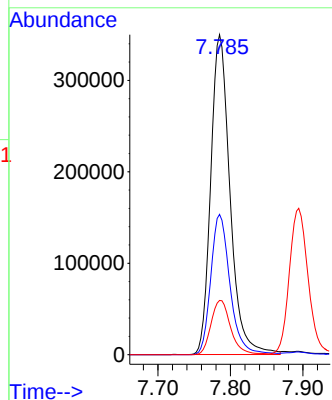
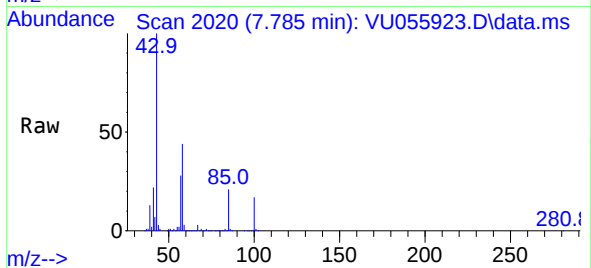
Tgt Ion: 43 Resp: 646890

Ion Ratio Lower Upper

43 100

58 43.9 34.0 51.0

100 17.3 13.0 19.6



#44

trans-1,3-Dichloropropene

Concen: 2.330 ug/L

RT: 8.206 min Scan# 2151

Delta R.T. -0.000 min

Lab File: VU055923.D

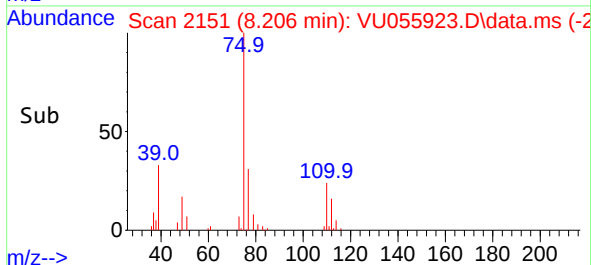
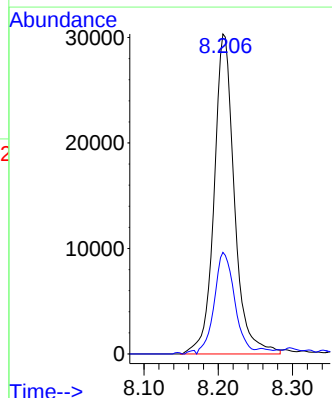
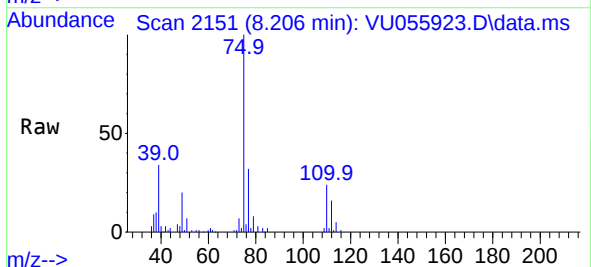
Acq: 27 Oct 2023 15:02

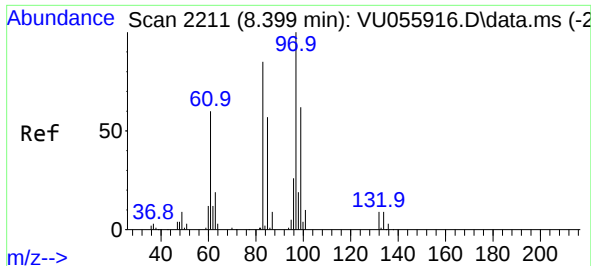
Tgt Ion: 75 Resp: 57603

Ion Ratio Lower Upper

75 100

77 31.8 21.7 40.3



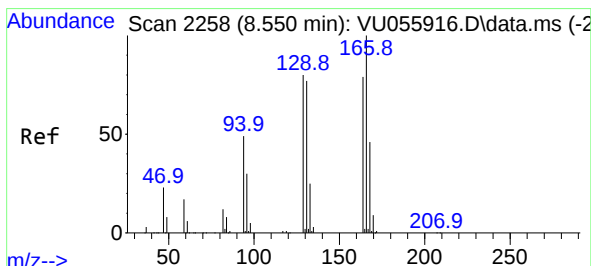
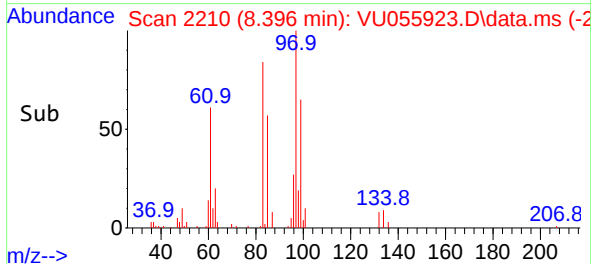
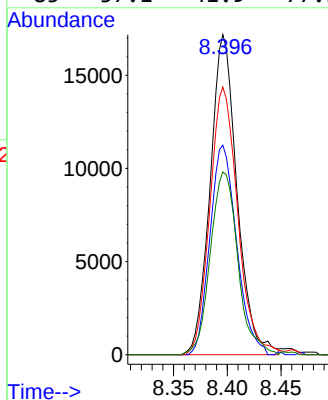
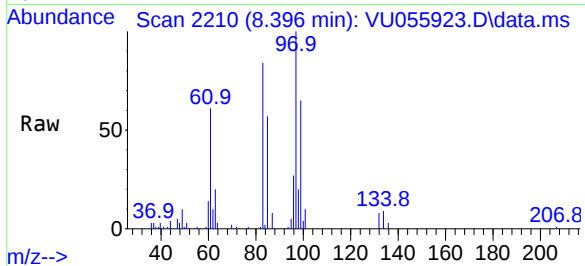


#45
1,1,2-Trichloroethane
Concen: 1.976 ug/L
RT: 8.396 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

Instrument :
MSVOA_U
ClientSampleId :
A4AA3

Tgt Ion: 97 Resp: 29880

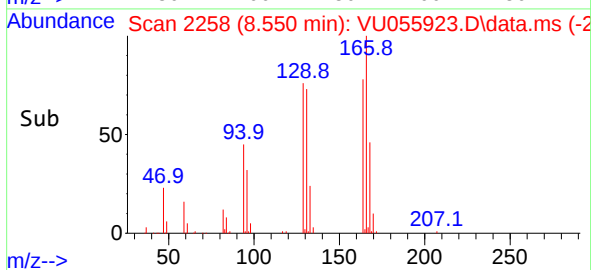
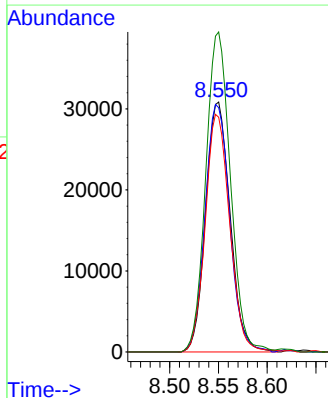
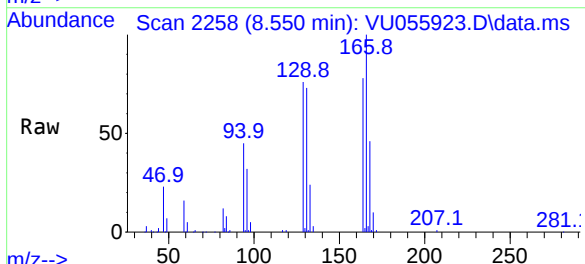
Ion	Ratio	Lower	Upper
97	100		
99	65.5	45.3	84.1
83	83.6	61.9	115.1
85	57.1	41.9	77.9

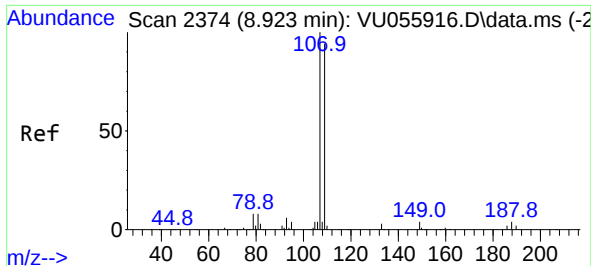


#47
Tetrachloroethene
Concen: 3.395 ug/L
RT: 8.550 min Scan# 2258
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

Tgt Ion: 164 Resp: 53856

Ion	Ratio	Lower	Upper
164	100		
129	97.7	72.2	134.0
131	93.9	70.8	131.6
166	128.0	89.0	165.2

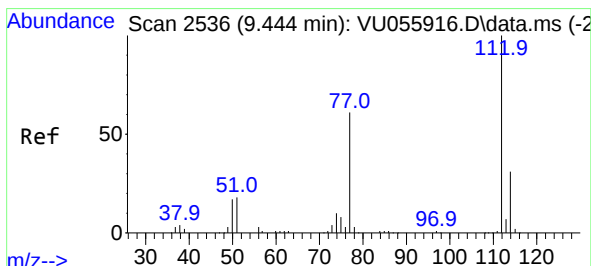
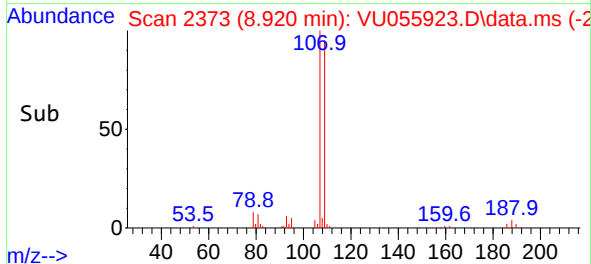
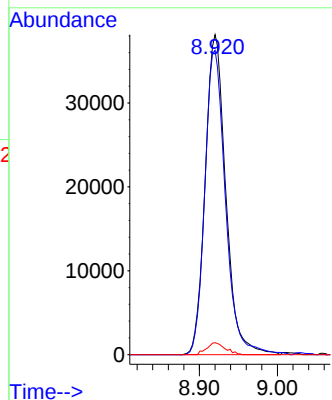
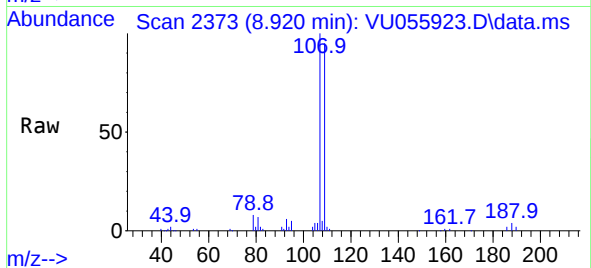




#50
1,2-Dibromoethane
Concen: 5.094 ug/L
RT: 8.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

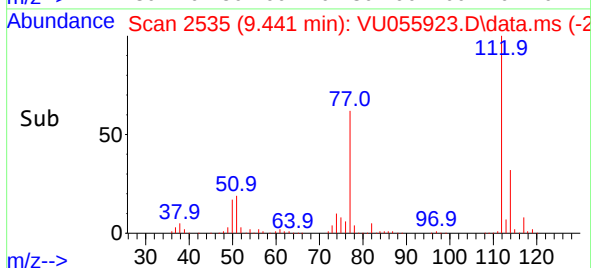
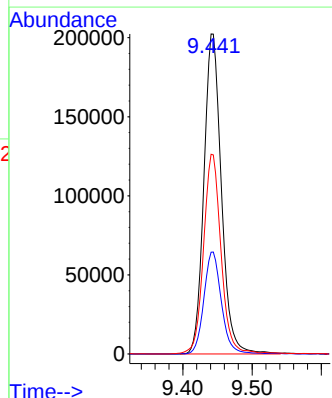
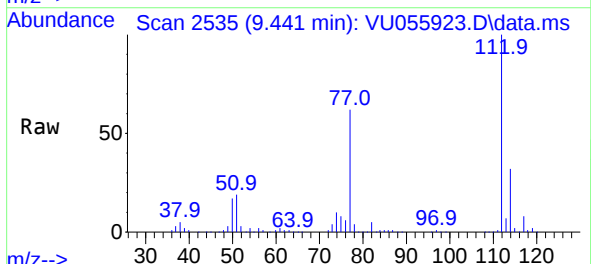
Instrument :
MSVOA_U
ClientSampleId :
A4AA3

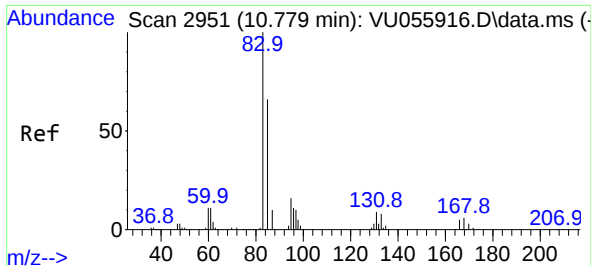
Tgt Ion:107 Resp: 69879
Ion Ratio Lower Upper
107 100
109 95.1 65.0 120.6
188 3.8 2.5 3.7#



#51
Chlorobenzene
Concen: 6.389 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. -0.003 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

Tgt Ion:112 Resp: 354365
Ion Ratio Lower Upper
112 100
114 31.8 22.3 41.5
77 62.4 49.9 74.9

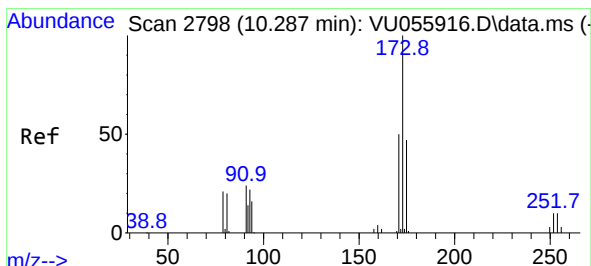
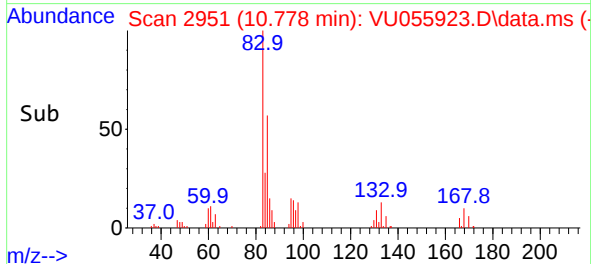
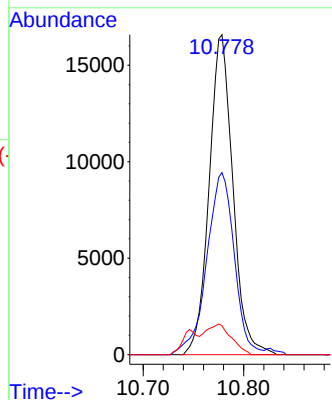
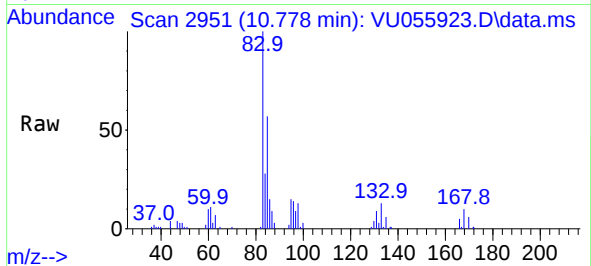




#57
1,1,2,2-Tetrachloroethane
Concen: 1.554 ug/L
RT: 10.778 min Scan# 2951
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

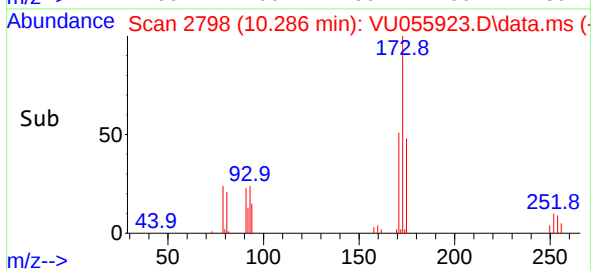
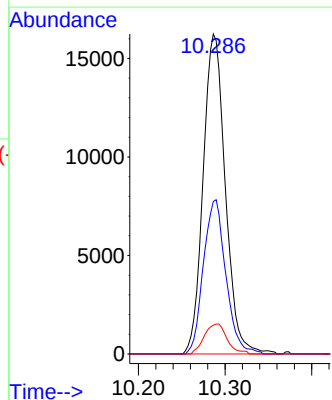
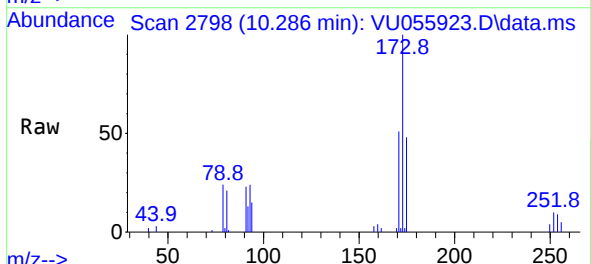
Instrument :
MSVOA_U
ClientSampleId :
A4AA3

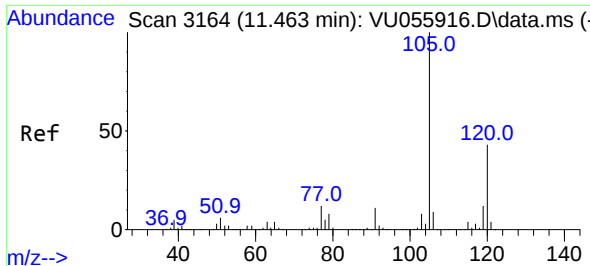
Tgt Ion:	83	Resp:	27193
Ion	Ratio	Lower	Upper
83	100		
85	56.9	46.2	85.8
131	9.0	7.2	10.8



#59
Bromoform
Concen: 2.997 ug/L
RT: 10.286 min Scan# 2798
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

Tgt Ion:	173	Resp:	28951
Ion	Ratio	Lower	Upper
173	100		
175	48.6	37.8	56.6
254	9.6	7.4	11.0

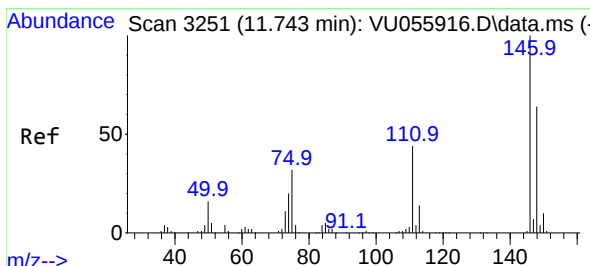
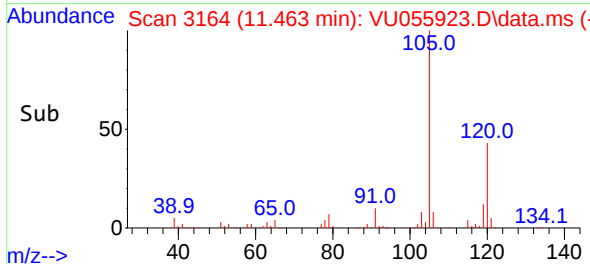
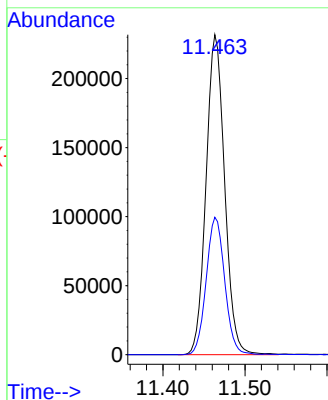
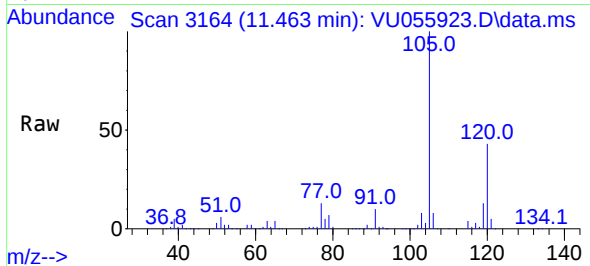




#63
1,2,4-Trimethylbenzene
Concen: 5.074 ug/L
RT: 11.463 min Scan# 3164
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

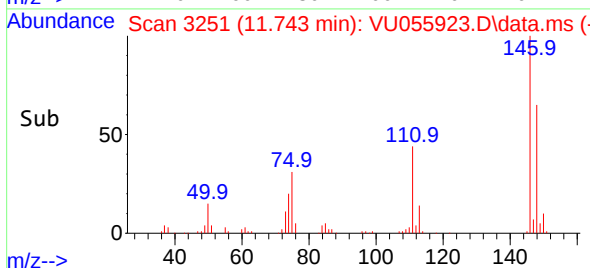
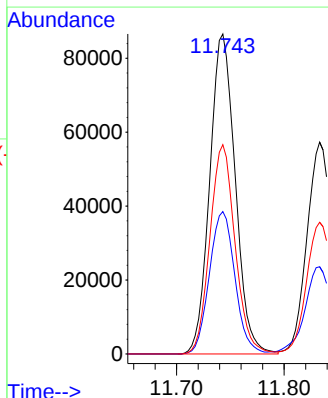
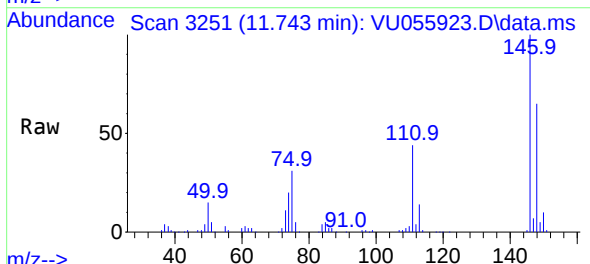
Instrument :
MSVOA_U
ClientSampleId :
A4AA3

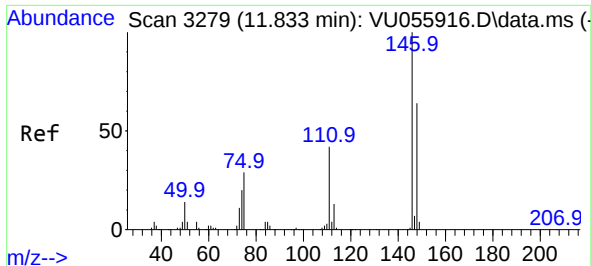
Tgt Ion:105 Resp: 364491
Ion Ratio Lower Upper
105 100
120 42.8 34.6 52.0



#64
1,3-Dichlorobenzene
Concen: 3.180 ug/L
RT: 11.743 min Scan# 3251
Delta R.T. 0.003 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

Tgt Ion:146 Resp: 142626
Ion Ratio Lower Upper
146 100
111 44.5 31.1 57.9
148 65.4 44.8 83.2

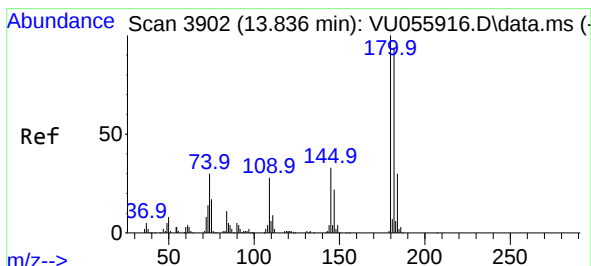
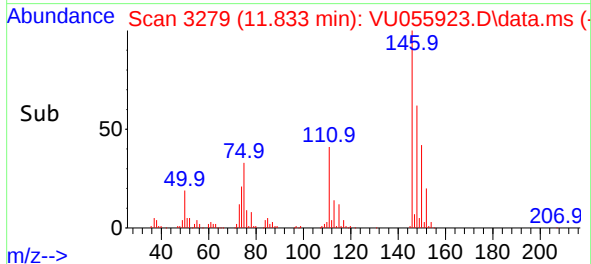
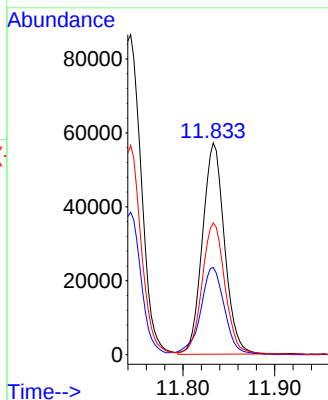
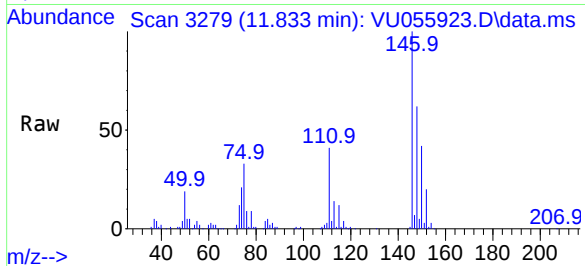




#65
1,4-Dichlorobenzene
Concen: 2.134 ug/L
RT: 11.833 min Scan# 31
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

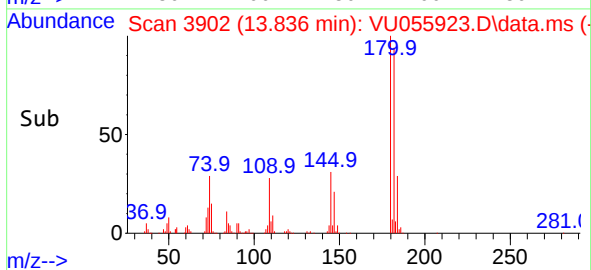
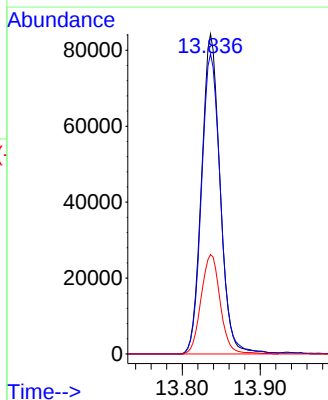
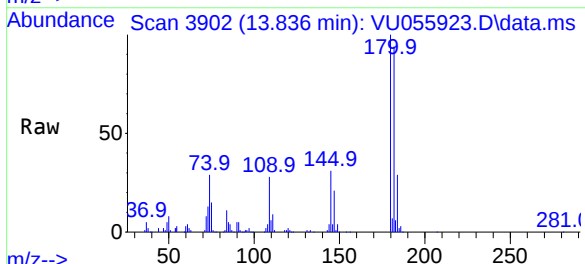
Instrument :
MSVOA_U
ClientSampleId :
A4AA3

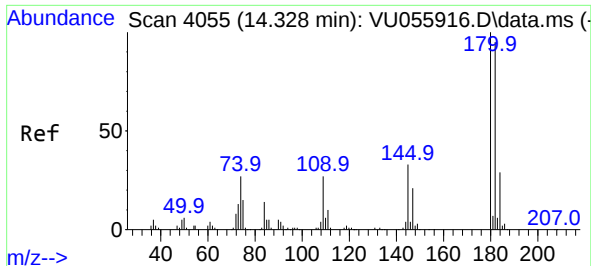
Tgt Ion:146 Resp: 95540
Ion Ratio Lower Upper
146 100
111 41.2 29.3 54.3
148 62.1 45.6 84.8



#70
1,2,4-trichlorobenzene
Concen: 6.153 ug/L
RT: 13.836 min Scan# 3902
Delta R.T. -0.000 min
Lab File: VU055923.D
Acq: 27 Oct 2023 15:02

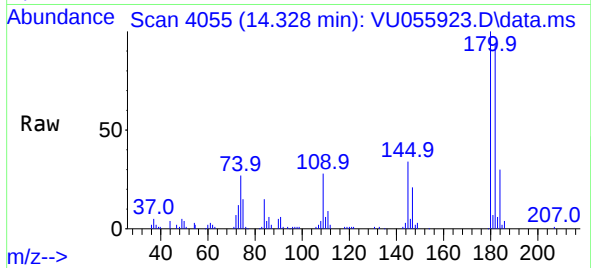
Tgt Ion:180 Resp: 139391
Ion Ratio Lower Upper
180 100
182 96.2 76.1 114.1
145 32.0 26.4 39.6





#72
 1,2,3-Trichlorobenzene
 Concen: 3.593 ug/L
 RT: 14.328 min Scan# 4055
 Delta R.T. 0.003 min
 Lab File: VU055923.D
 Acq: 27 Oct 2023 15:02

Instrument :
 MSVOA_U
 ClientSampleId :
 A4AA3



Tgt Ion:180 Resp: 70180
 Ion Ratio Lower Upper
 180 100
 182 96.2 74.6 112.0
 145 34.6 27.4 41.2

