

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072324\
 Data File : VU060120.D
 Acq On : 23 Jul 2024 17:22
 Operator : MD/SY
 Sample : P3280-06
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 24 04:23:29 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR071824WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Jul 24 04:18:44 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	117106	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	122346	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	66998	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	28647	3.516	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	70.400%
7) Chloroethane-d5	1.908	69	30471	4.026	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.600%
11) 1,1-Dichloroethene-d2	2.560	65	12175	3.827	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.600%
20) 2-Butanone-d5	4.641	46	50564	26.544	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	53.080%
24) Chloroform-d	5.055	84	74086	4.326	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.600%
26) 1,2-Dichloroethane-d4	5.698	65	38387	4.814	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.200%
32) Benzene-d6	5.721	84	134883	4.115	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.200%
36) 1,2-Dichloropropane-d6	6.685	67	46971	4.497	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.000%
41) Toluene-d8	7.894	98	105843	3.574	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.400%
43) trans-1,3-Dichloroprop...	8.177	79	11358	3.194	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	63.800%
46) 2-Hexanone-d5	8.631	63	76887	48.731	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.460%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	47940	5.157	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.200%
66) 1,2-Dichlorobenzene-d4	12.187	152	47432	3.922	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	78.400%#

Target Compounds					Qvalue
5) Vinyl chloride	1.599	62	3727	0.311 ug/L #	81
8) Chloroethane	1.930	64	14447	1.845 ug/L	95
15) Methyl Acetate	2.956	43	852	0.275 ug/L #	45
16) Methylene chloride	3.036	84	2817	0.257 ug/L	89
17) Methyl tert-butyl Ether	3.358	73	29576	1.451 ug/L #	92
18) trans-1,2-Dichloroethene	3.348	96	17829	1.918 ug/L	93
19) 1,1-Dichloroethane	3.859	63	62724	3.553 ug/L	99
22) cis-1,2-Dichloroethene	4.666	96	3049	0.293 ug/L	86
27) 1,2-Dichloroethane	5.772	62	2123	0.191 ug/L #	73
30) Cyclohexane	5.383	56	6967	0.576 ug/L	96
33) Benzene	5.769	78	205521	5.085 ug/L	100
35) Methylcyclohexane	6.756	83	28754	2.046 ug/L	92
45) 1,1,2-Trichloroethane	8.367	97	2706	0.324 ug/L #	19
51) Chlorobenzene	9.444	112	20257	0.721 ug/L	94
52) Ethylbenzene	9.566	91	23426	0.546 ug/L	95
53) m,p-Xylene	9.695	106	9954	0.601 ug/L	99
54) o-Xylene	10.097	106	5462	0.345 ug/L	99
60) Isopropylbenzene	10.480	105	40584	0.926 ug/L	99
61) 1,2,3-Trichloropropane	10.888	75	1245	0.176 ug/L #	1

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Wed Jul 24 04:18:44 2024
Response via : Initial Calibration

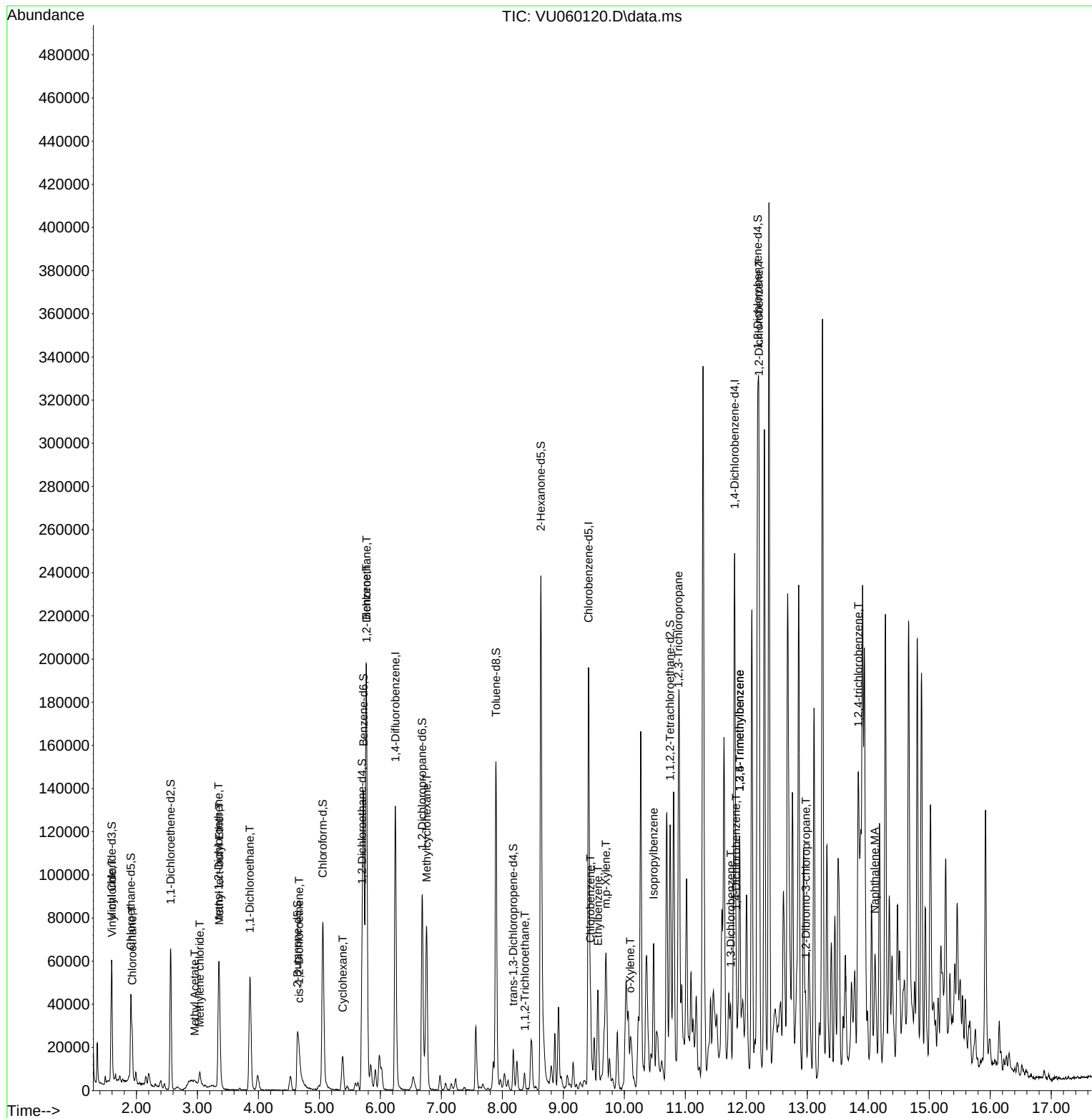
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	11.891	105	60300	1.801	ug/L	91
63) 1,2,4-Trimethylbenzene	11.891	105	60300	1.864	ug/L	96
64) 1,3-Dichlorobenzene	11.746	146	8156	0.346	ug/L	94
65) 1,4-Dichlorobenzene	11.833	146	12130	0.505	ug/L	95
67) 1,2-Dichlorobenzene	12.206	146	92033	4.078	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.975	75	104	0.076	ug/L #	1
70) 1,2,4-trichlorobenzene	13.836	180	12741	0.941	ug/L #	48
71) Naphthalene	14.106	128	4943	0.258	ug/L #	1

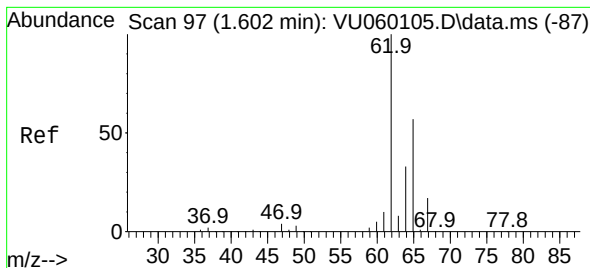
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.311 ug/L

RT: 1.599 min Scan# 9

Delta R.T. -0.003 min

Lab File: VU060120.D

Acq: 23 Jul 2024 17:22

Instrument :

MSVOA_U

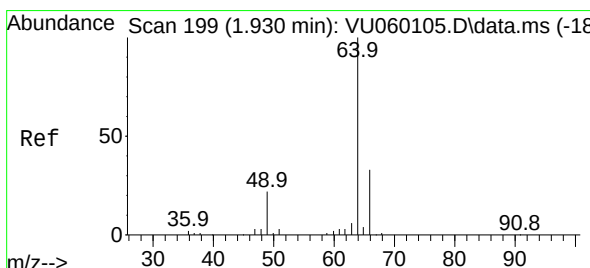
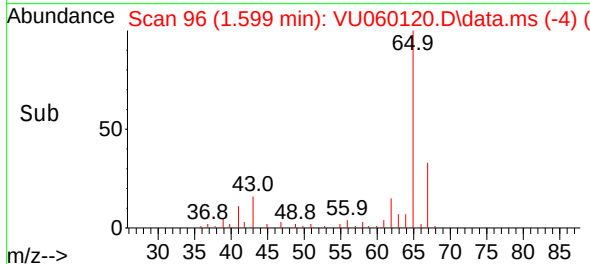
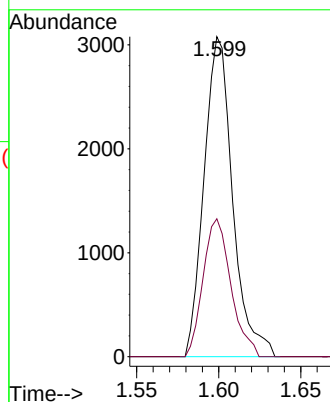
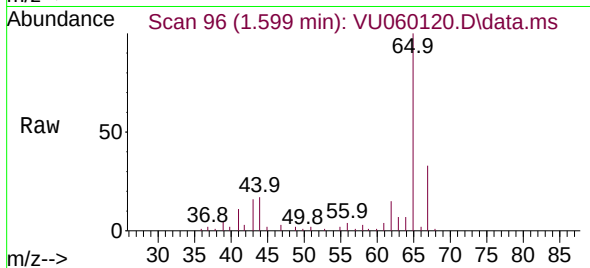
ClientSampleId :

Tgt Ion: 62 Resp: 3727

Ion Ratio Lower Upper

62 100

64 43.1 22.8 42.4#



#8

Chloroethane

Concen: 1.845 ug/L

RT: 1.930 min Scan# 199

Delta R.T. 0.000 min

Lab File: VU060120.D

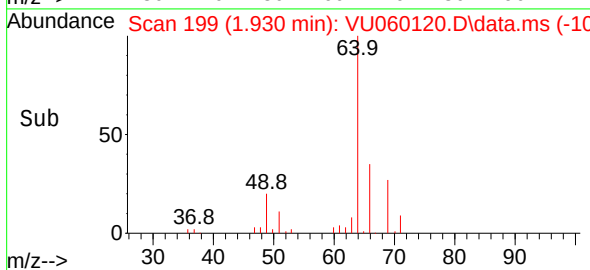
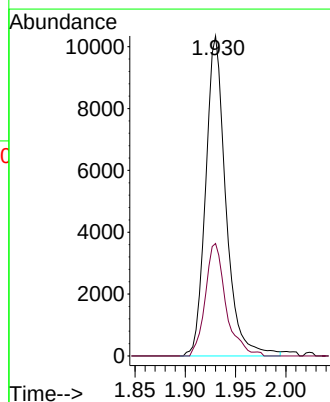
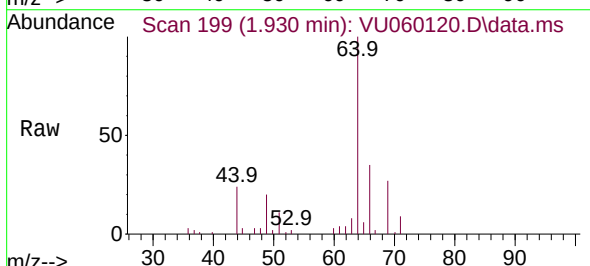
Acq: 23 Jul 2024 17:22

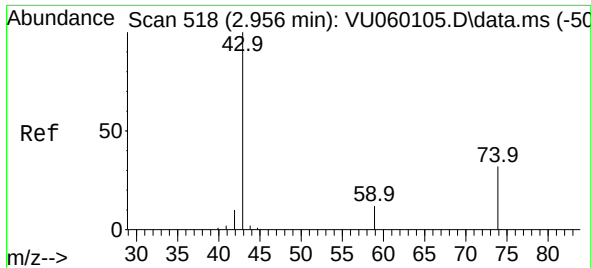
Tgt Ion: 64 Resp: 14447

Ion Ratio Lower Upper

64 100

66 35.2 22.8 42.4

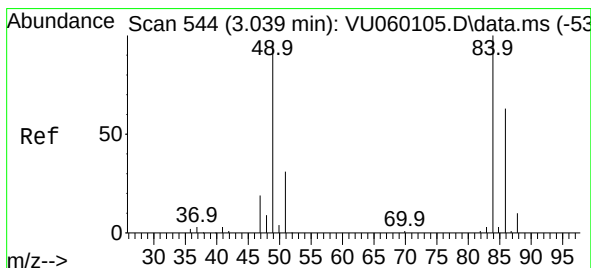
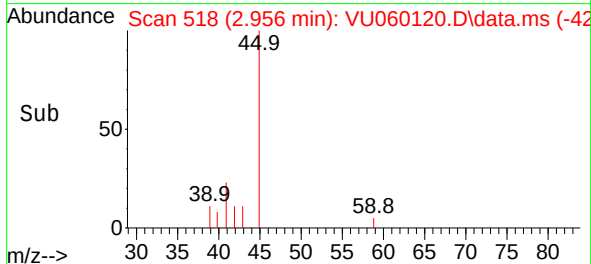
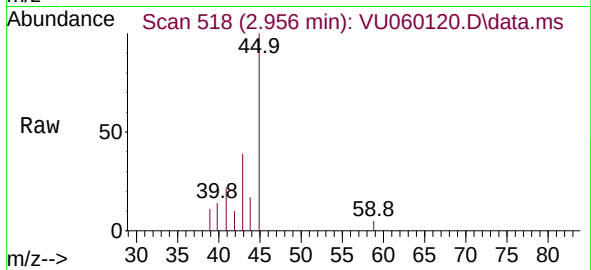




#15
Methyl Acetate
Concen: 0.275 ug/L
RT: 2.956 min Scan# 518
Delta R.T. 0.000 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

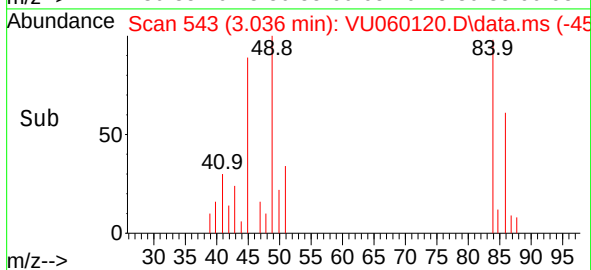
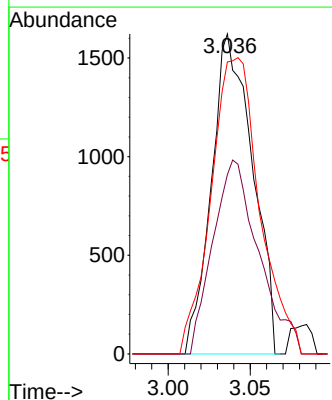
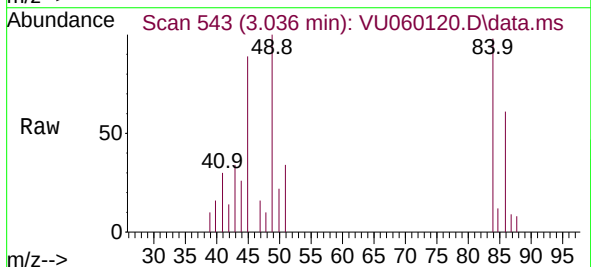
Instrument :
MSVOA_U
ClientSampleId :

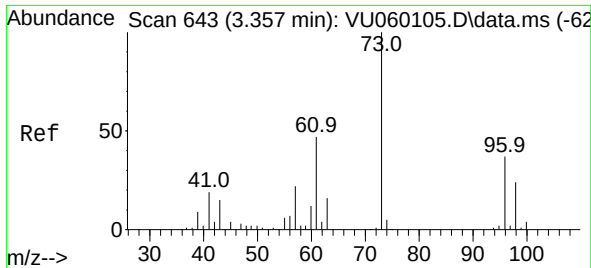
Tgt Ion: 43 Resp: 852
Ion Ratio Lower Upper
43 100
74 0.0 23.5 35.3#



#16
Methylene chloride
Concen: 0.257 ug/L
RT: 3.036 min Scan# 543
Delta R.T. -0.003 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

Tgt Ion: 84 Resp: 2817
Ion Ratio Lower Upper
84 100
86 56.0 44.4 82.5
49 91.2 72.0 133.6

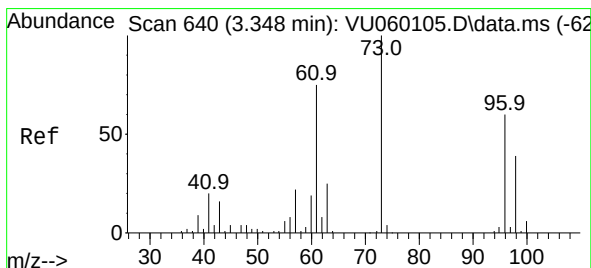
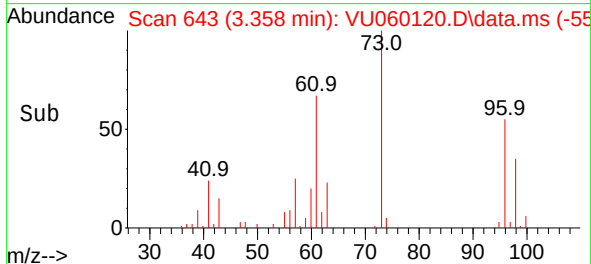
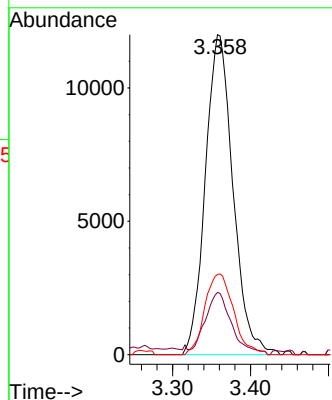
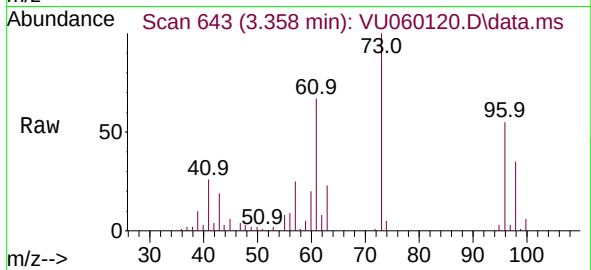




#17
Methyl tert-butyl Ether
Concen: 1.451 ug/L
RT: 3.358 min Scan# 643
Delta R.T. 0.000 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

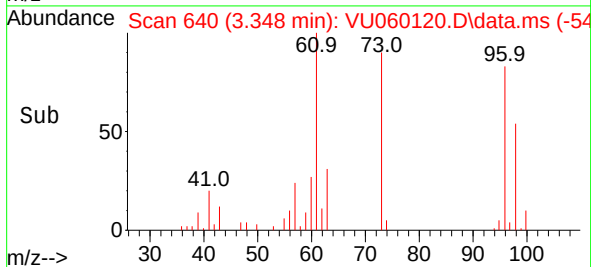
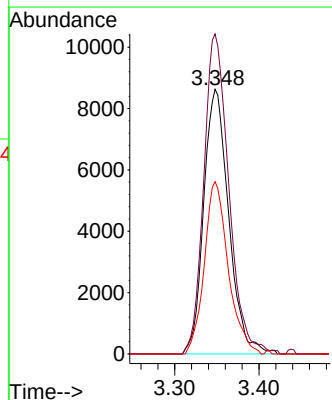
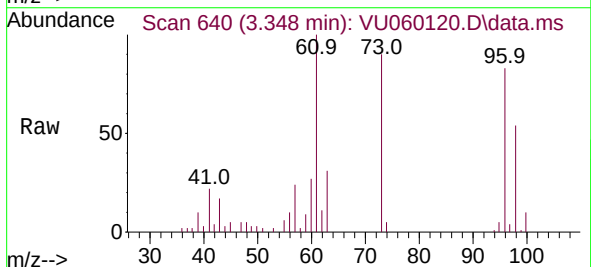
Instrument :
MSVOA_U
ClientSampleId :

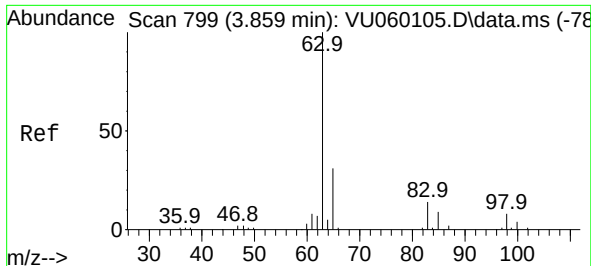
Tgt Ion: 73 Resp: 29576
Ion Ratio Lower Upper
73 100
43 18.6 13.1 19.7
57 26.3 17.0 25.4#



#18
trans-1,2-Dichloroethene
Concen: 1.918 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.000 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

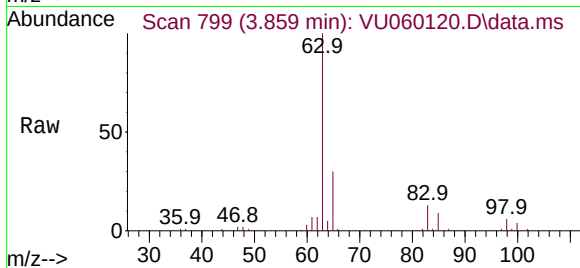
Tgt Ion: 96 Resp: 17829
Ion Ratio Lower Upper
96 100
61 120.9 91.6 170.0
98 65.1 47.7 88.5





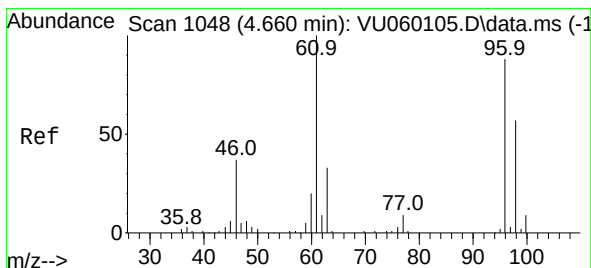
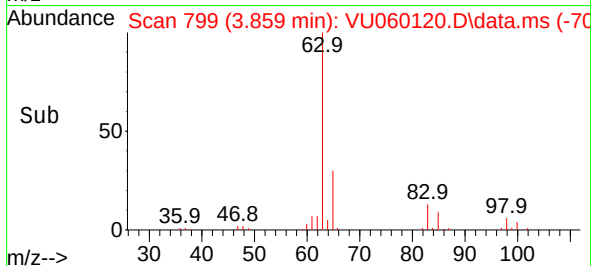
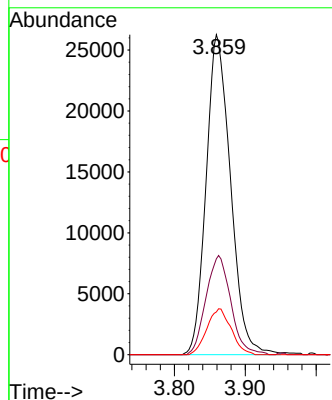
#19
1,1-Dichloroethane
Concen: 3.553 ug/L
RT: 3.859 min Scan# 799
Delta R.T. 0.000 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 63 Resp: 62724

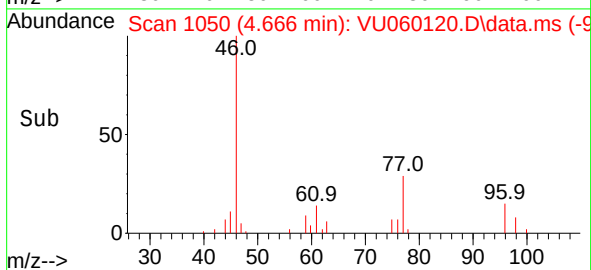
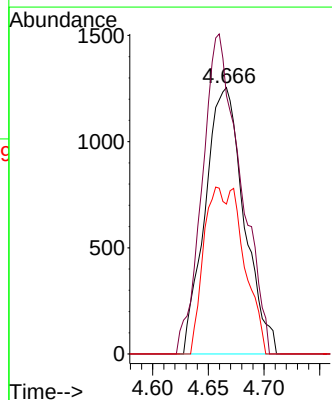
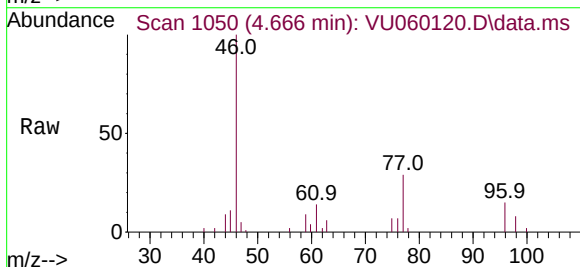
Ion	Ratio	Lower	Upper
63	100		
65	30.7	22.0	40.8
83	13.4	9.7	17.9

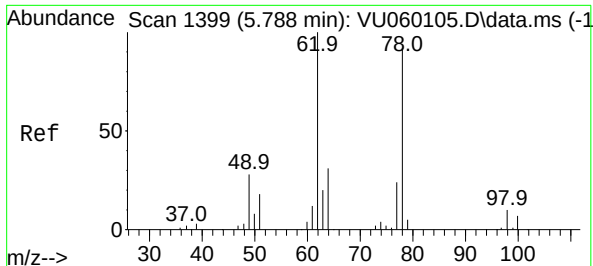


#22
cis-1,2-Dichloroethene
Concen: 0.293 ug/L
RT: 4.666 min Scan# 1050
Delta R.T. 0.007 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

Tgt Ion: 96 Resp: 3049

Ion	Ratio	Lower	Upper
96	100		
61	97.0	80.2	148.9
98	56.3	44.7	83.1





#27

1,2-Dichloroethane

Concen: 0.191 ug/L

RT: 5.772 min Scan# 1399

Delta R.T. -0.016 min

Lab File: VU060120.D

Acq: 23 Jul 2024 17:22

Instrument :

MSVOA_U

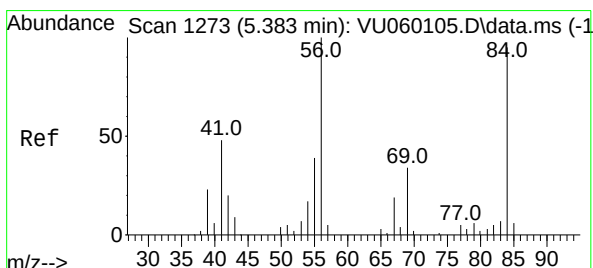
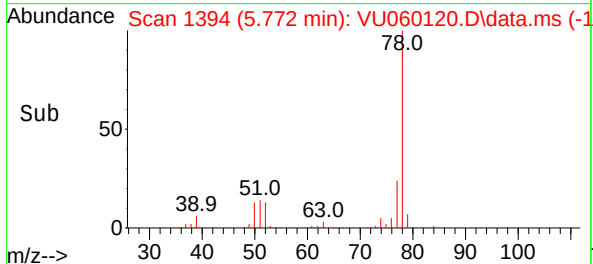
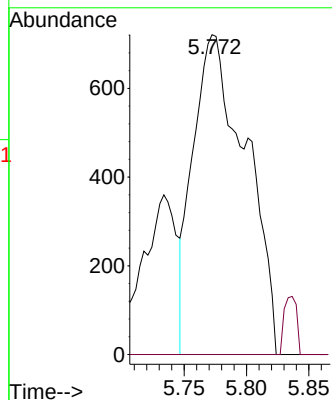
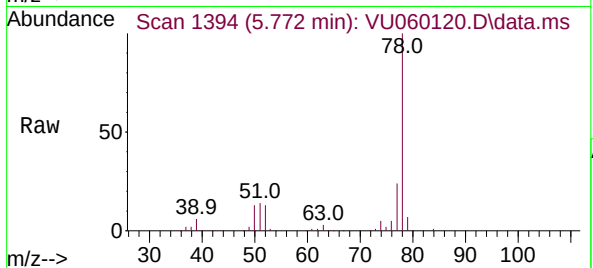
ClientSampleId :

Tgt Ion: 62 Resp: 2123

Ion Ratio Lower Upper

62 100

98 0.0 7.9 11.9#



#30

Cyclohexane

Concen: 0.576 ug/L

RT: 5.383 min Scan# 1273

Delta R.T. 0.000 min

Lab File: VU060120.D

Acq: 23 Jul 2024 17:22

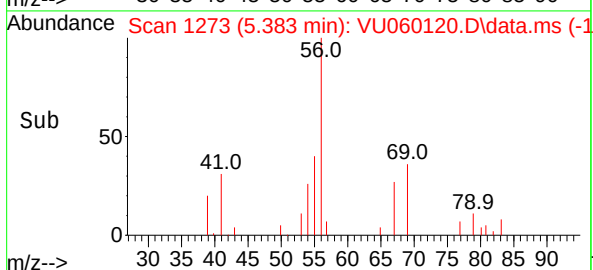
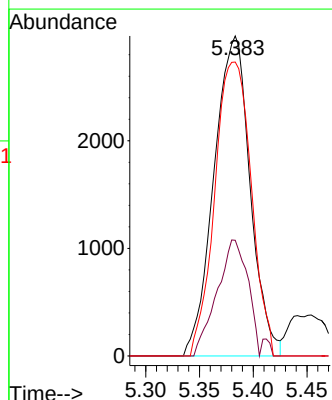
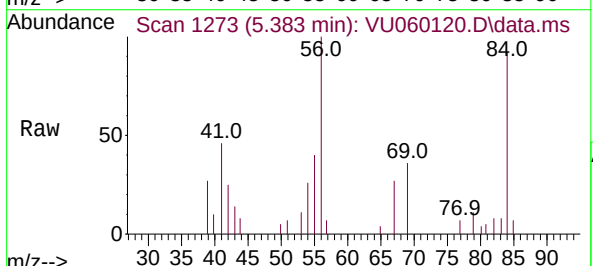
Tgt Ion: 56 Resp: 6967

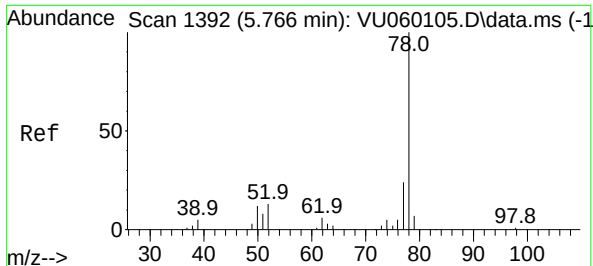
Ion Ratio Lower Upper

56 100

69 30.9 26.6 39.8

84 92.3 77.2 115.8

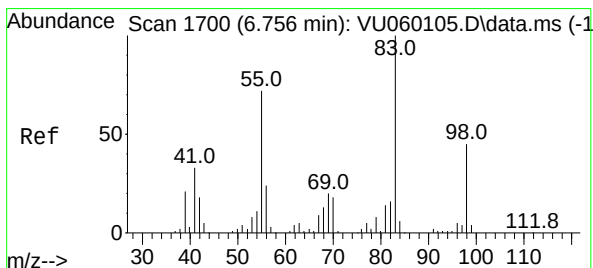
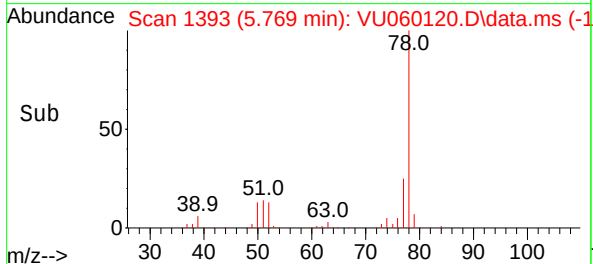
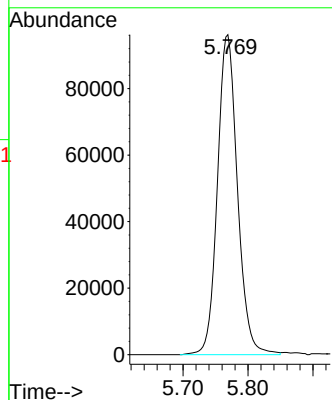
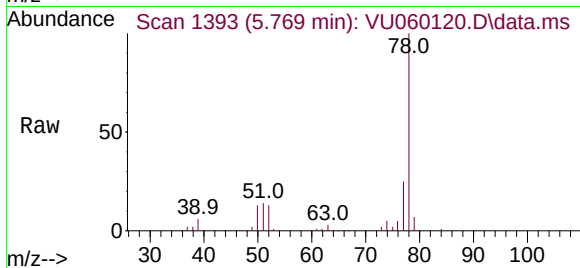




#33
Benzene
Concen: 5.085 ug/L
RT: 5.769 min Scan# 14
Delta R.T. 0.003 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

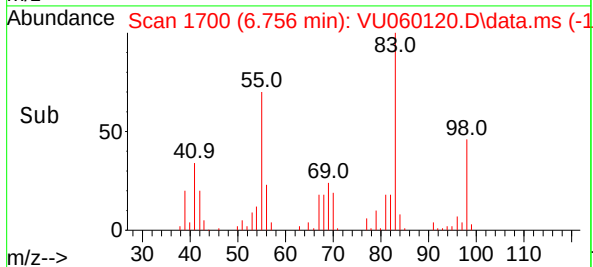
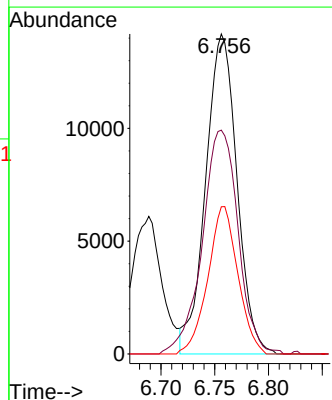
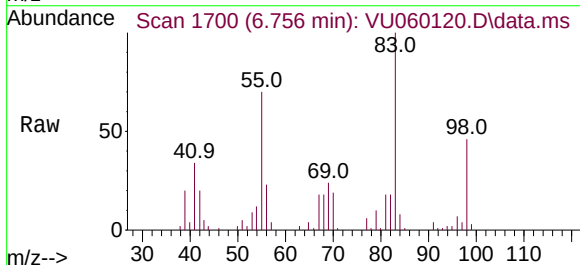
Instrument :
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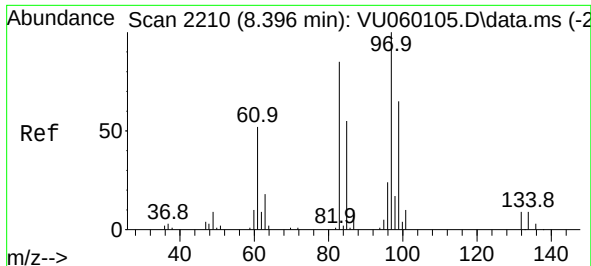
Tgt Ion: 78 Resp: 205521



#35
Methylcyclohexane
Concen: 2.046 ug/L
RT: 6.756 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

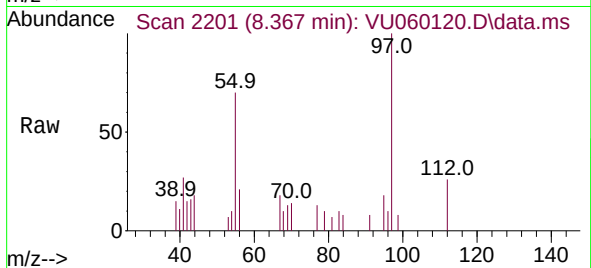
Tgt Ion: 83 Resp: 28754
Ion Ratio Lower Upper
83 100
55 80.0 56.7 85.1
98 44.2 36.6 55.0



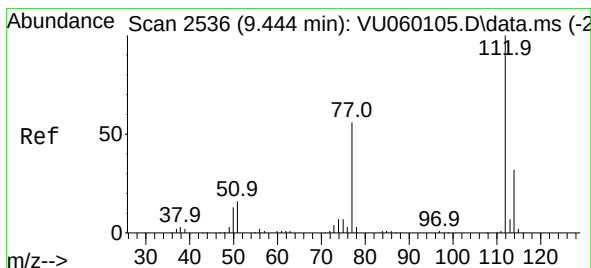
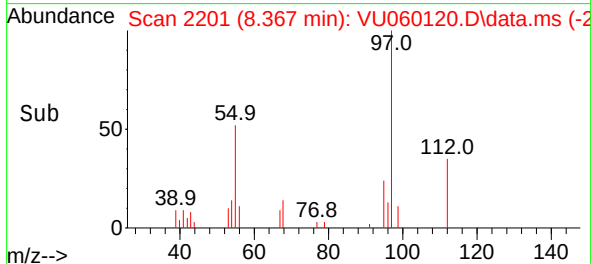
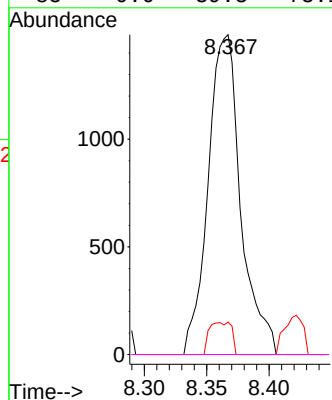


#45
1,1,2-Trichloroethane
Concen: 0.324 ug/L
RT: 8.367 min Scan# 21
Delta R.T. -0.029 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

Instrument :
MSVOA_U
ClientSampleId :

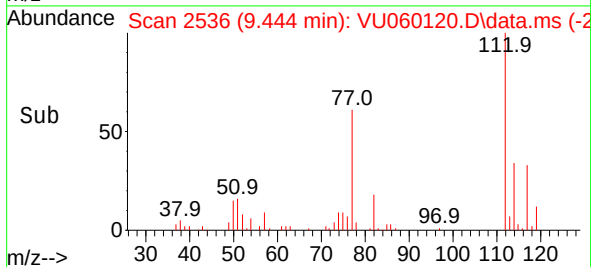
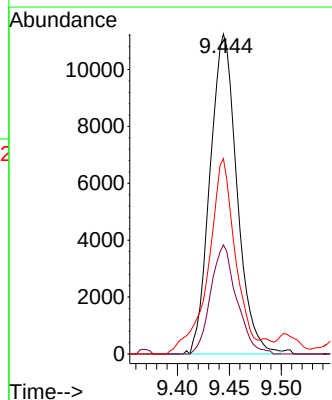
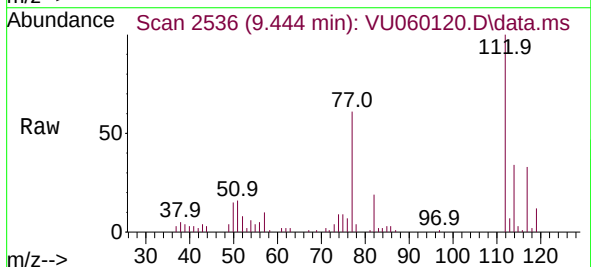


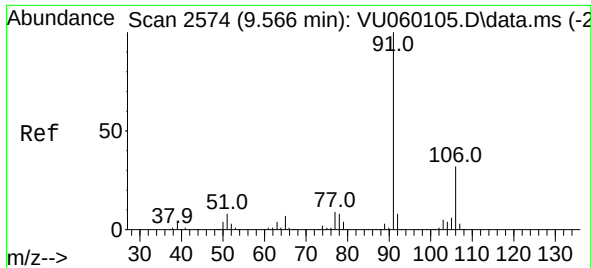
Tgt Ion:	97	Resp:	2706
Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.8	81.4#
83	10.2	62.1	115.3#
85	0.0	39.3	73.1#



#51
Chlorobenzene
Concen: 0.721 ug/L
RT: 9.444 min Scan# 2536
Delta R.T. 0.000 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

Tgt Ion:	112	Resp:	20257
Ion	Ratio	Lower	Upper
112	100		
114	34.1	22.1	41.1
77	61.1	44.7	67.1

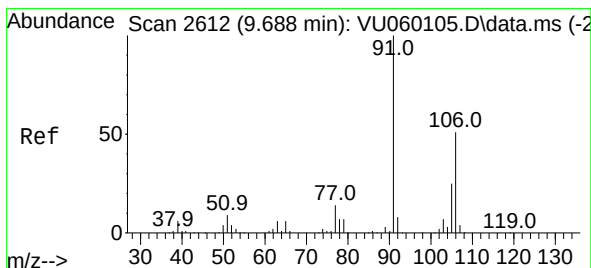
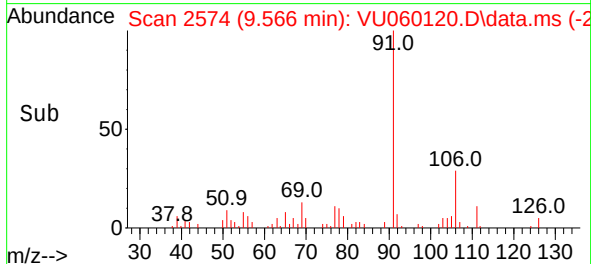
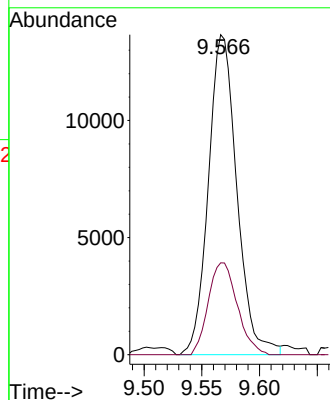
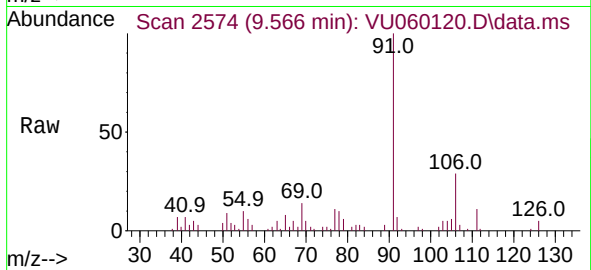




#52
Ethylbenzene
Concen: 0.546 ug/L
RT: 9.566 min Scan# 2574
Delta R.T. 0.000 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

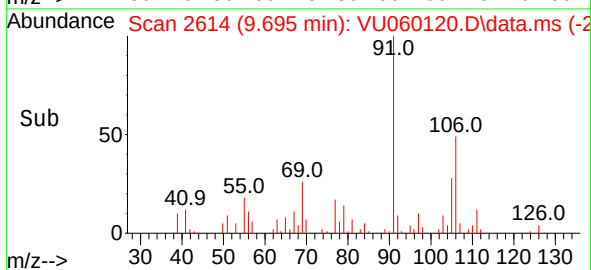
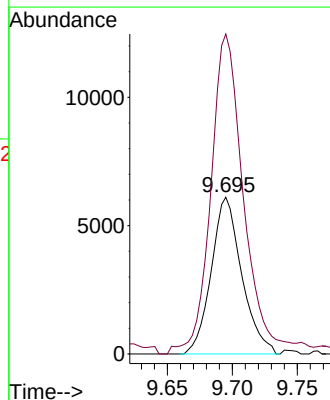
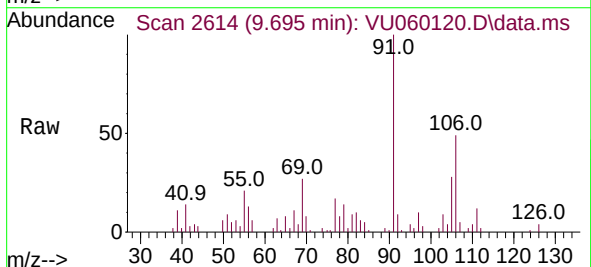
Instrument :
MSVOA_U
ClientSampleId :

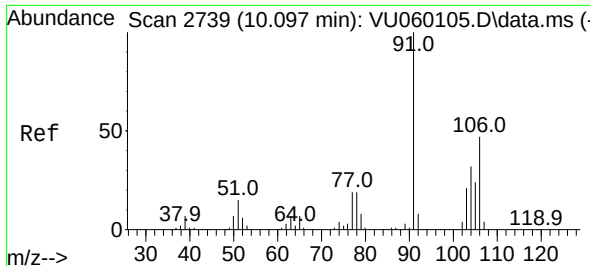
Tgt Ion: 91 Resp: 23426
Ion Ratio Lower Upper
91 100
106 28.7 21.9 40.7



#53
m,p-Xylene
Concen: 0.601 ug/L
RT: 9.695 min Scan# 2614
Delta R.T. 0.007 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

Tgt Ion:106 Resp: 9954
Ion Ratio Lower Upper
106 100
91 204.2 141.3 262.5

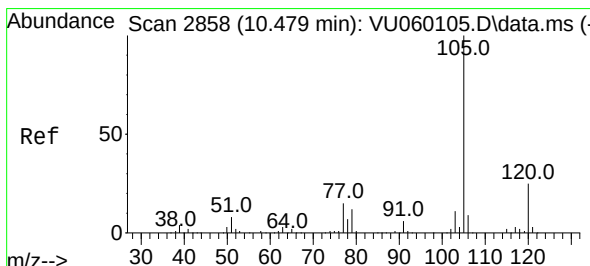
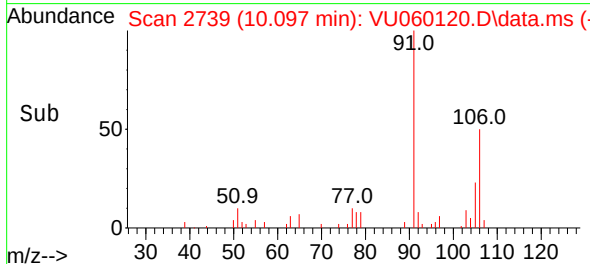
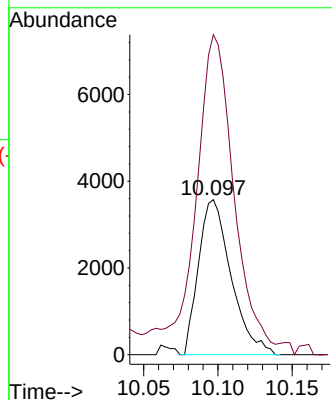
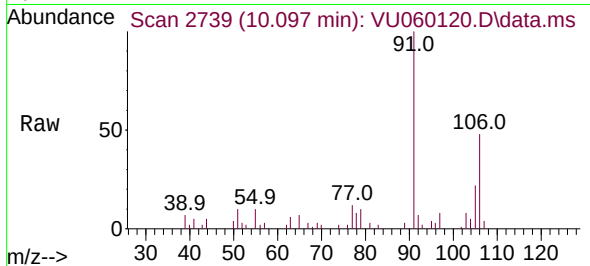




#54
o-Xylene
Concen: 0.345 ug/L
RT: 10.097 min Scan# 2739
Delta R.T. 0.000 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

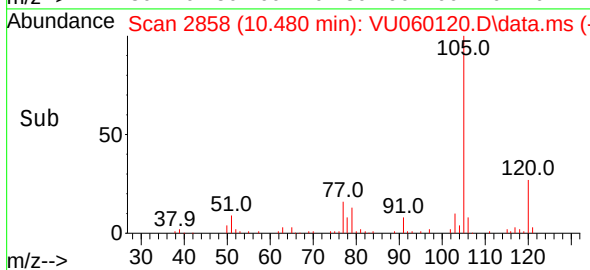
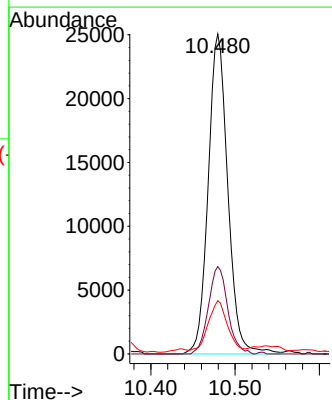
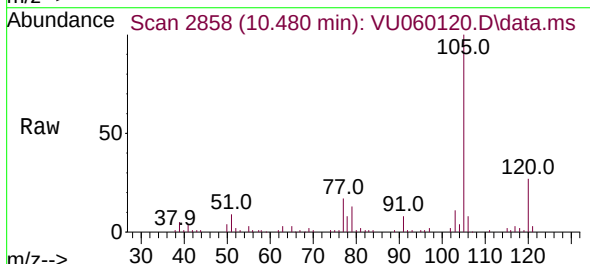
Instrument :
MSVOA_U
ClientSampleId :

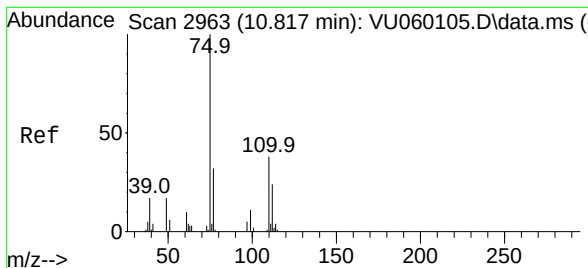
Tgt Ion:106 Resp: 5462
Ion Ratio Lower Upper
106 100
91 206.3 143.6 266.6



#60
Isopropylbenzene
Concen: 0.926 ug/L
RT: 10.480 min Scan# 2858
Delta R.T. 0.000 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

Tgt Ion:105 Resp: 40584
Ion Ratio Lower Upper
105 100
120 26.8 21.9 32.9
77 14.7 12.1 18.1





#61

1,2,3-Trichloropropane

Concen: 0.176 ug/L

RT: 10.888 min Scan# 2963

Delta R.T. 0.071 min

Lab File: VU060120.D

Acq: 23 Jul 2024 17:22

Instrument :

MSVOA_U

ClientSampleId :

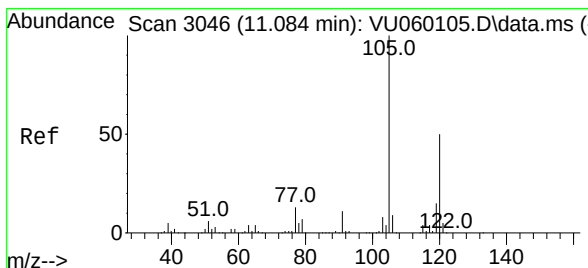
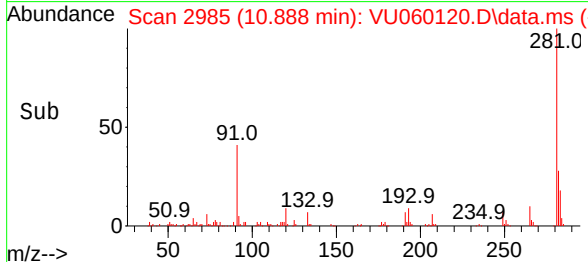
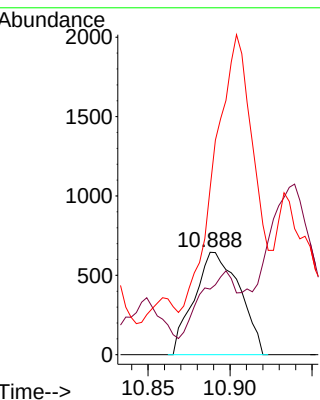
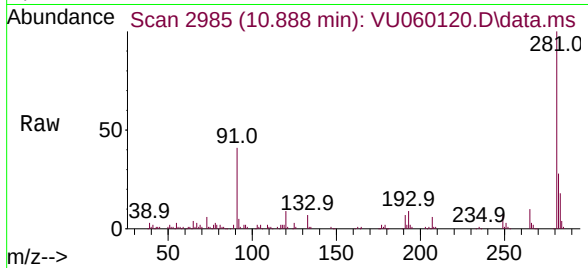
Tgt Ion: 75 Resp: 1245

Ion Ratio Lower Upper

75 100

110 52.3 30.8 46.2#

77 228.5 26.2 39.2#



#62

1,3,5-Trimethylbenzene

Concen: 1.801 ug/L

RT: 11.891 min Scan# 3297

Delta R.T. 0.807 min

Lab File: VU060120.D

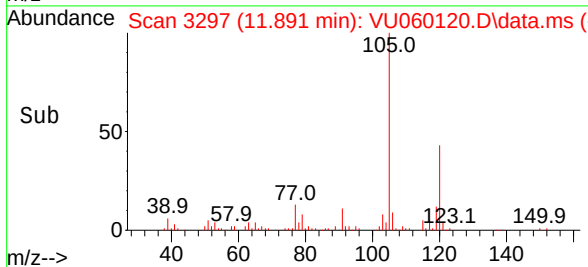
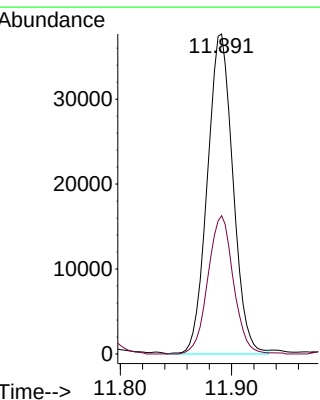
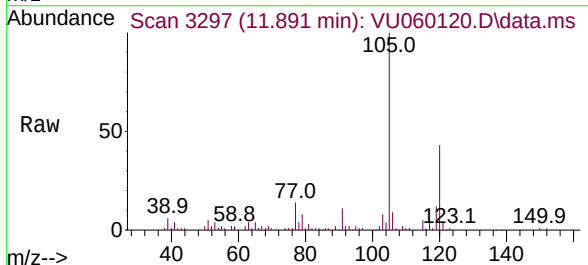
Acq: 23 Jul 2024 17:22

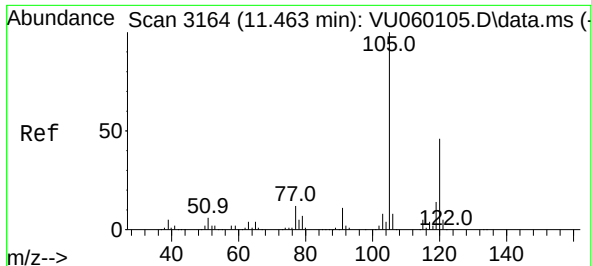
Tgt Ion:105 Resp: 60300

Ion Ratio Lower Upper

105 100

120 42.9 39.4 59.2





#63

1,2,4-Trimethylbenzene

Concen: 1.864 ug/L

RT: 11.891 min Scan# 3164

Delta R.T. 0.428 min

Lab File: VU060120.D

Acq: 23 Jul 2024 17:22

Instrument :

MSVOA_U

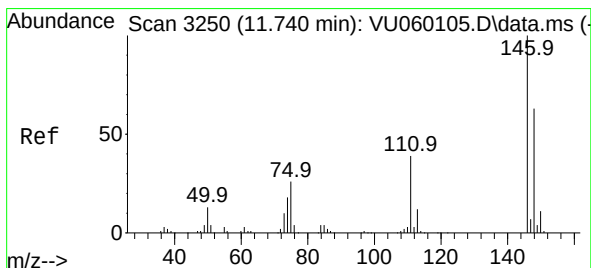
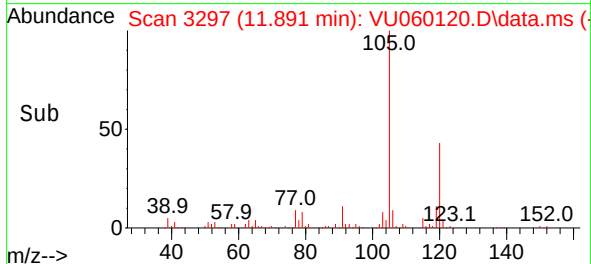
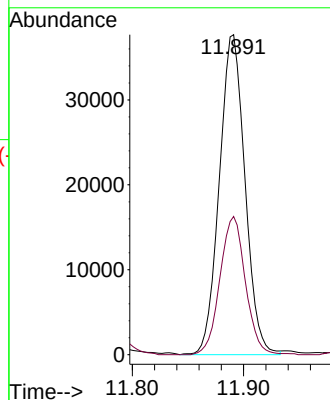
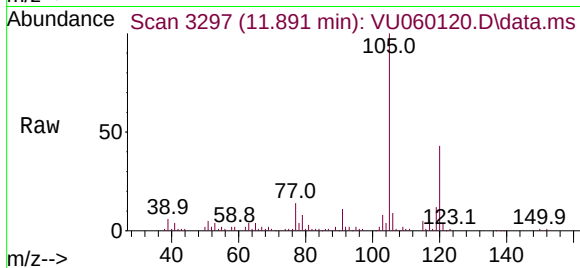
ClientSampleId :

Tgt Ion:105 Resp: 60300

Ion Ratio Lower Upper

105 100

120 42.9 36.7 55.1



#64

1,3-Dichlorobenzene

Concen: 0.346 ug/L

RT: 11.746 min Scan# 3252

Delta R.T. 0.007 min

Lab File: VU060120.D

Acq: 23 Jul 2024 17:22

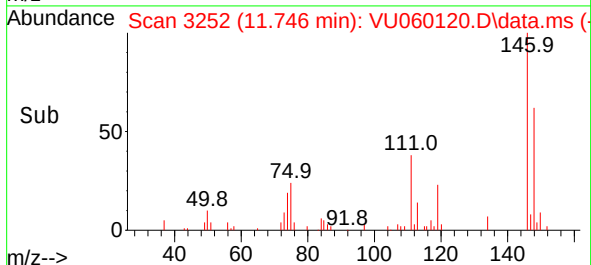
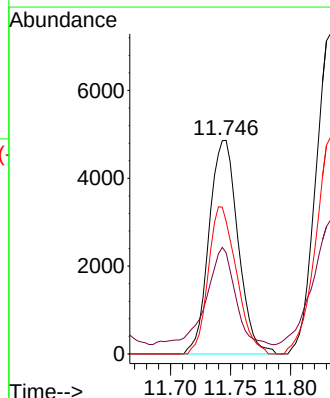
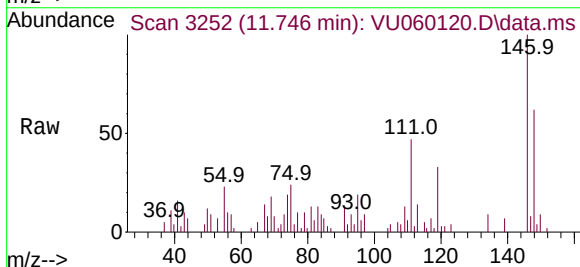
Tgt Ion:146 Resp: 8156

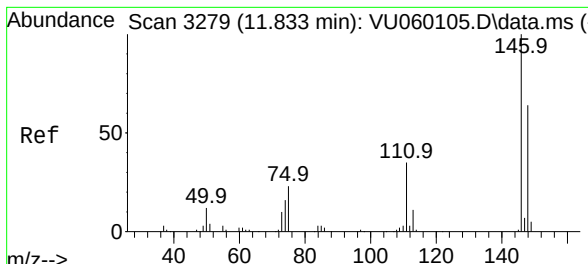
Ion Ratio Lower Upper

146 100

111 47.4 27.2 50.4

148 62.1 44.3 82.3

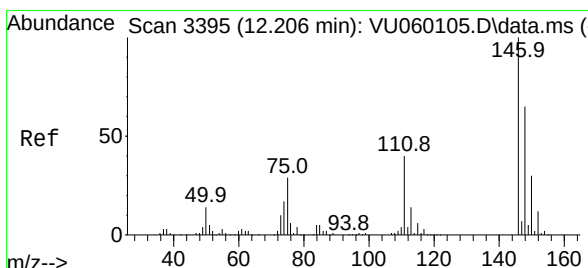
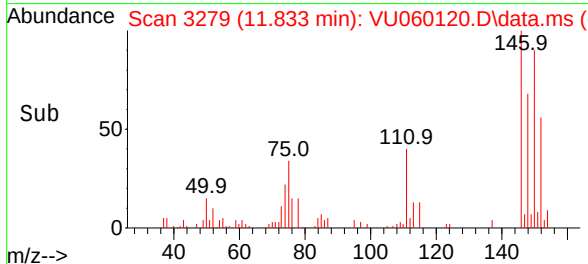
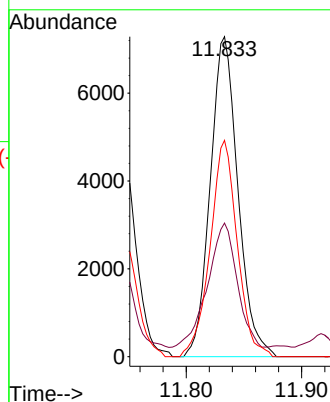
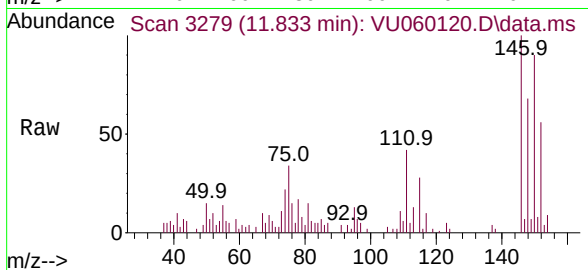




#65
 1,4-Dichlorobenzene
 Concen: 0.505 ug/L
 RT: 11.833 min Scan# 3279
 Delta R.T. 0.000 min
 Lab File: VU060120.D
 Acq: 23 Jul 2024 17:22

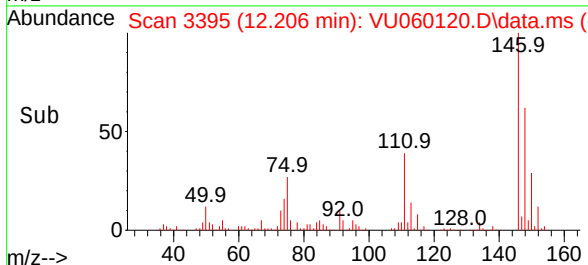
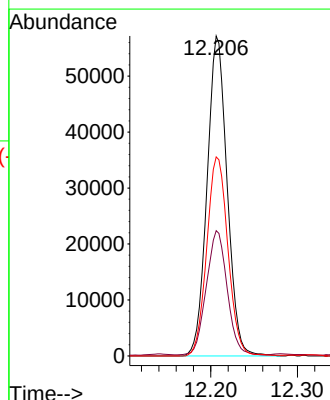
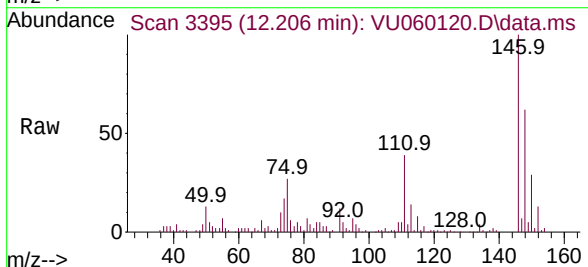
Instrument :
 MSVOA_U
 ClientSampleId :

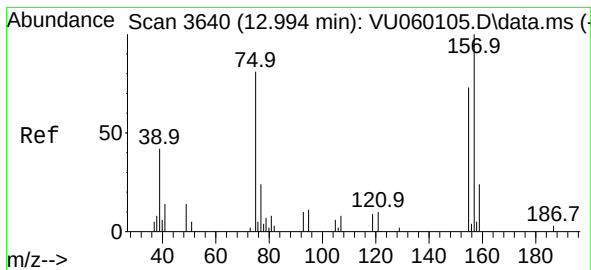
Tgt Ion:	146	Resp:	12130
Ion Ratio	Lower	Upper	
146	100		
111	41.8	26.5	49.1
148	67.6	45.3	84.1



#67
 1,2-Dichlorobenzene
 Concen: 4.078 ug/L
 RT: 12.206 min Scan# 3395
 Delta R.T. 0.000 min
 Lab File: VU060120.D
 Acq: 23 Jul 2024 17:22

Tgt Ion:	146	Resp:	92033
Ion Ratio	Lower	Upper	
146	100		
111	39.2	30.9	46.3
148	62.2	49.8	74.8

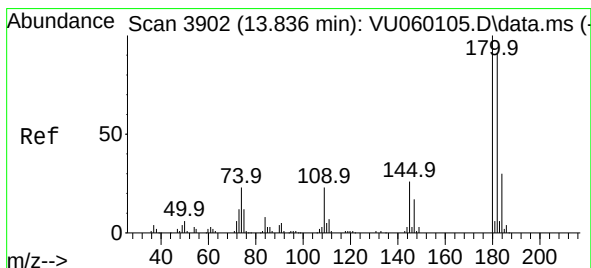
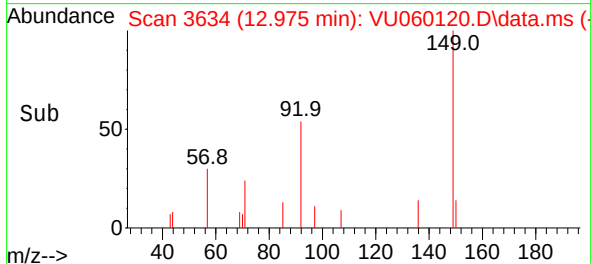
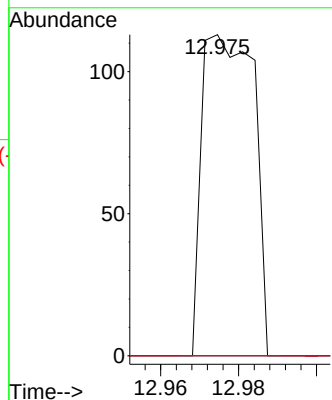
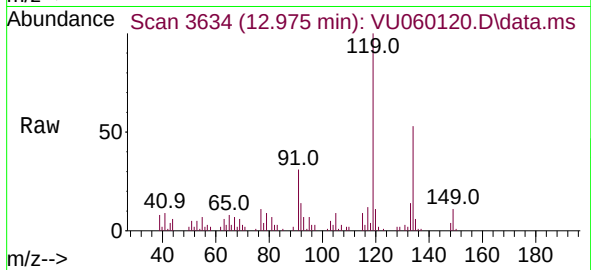




#68
1,2-Dibromo-3-chloropropane
Concen: 0.076 ug/L
RT: 12.975 min Scan# 3634
Delta R.T. -0.019 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

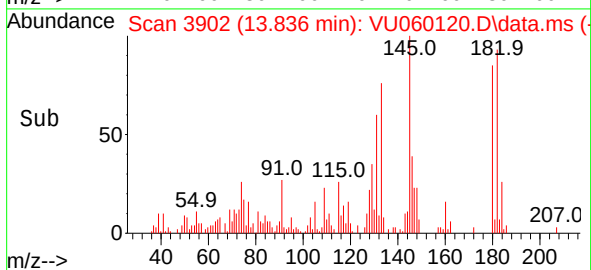
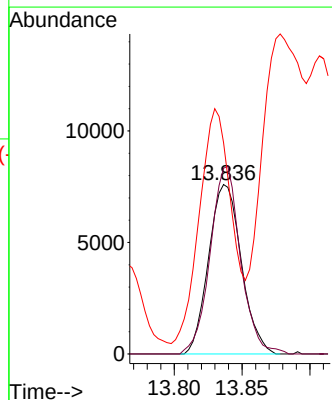
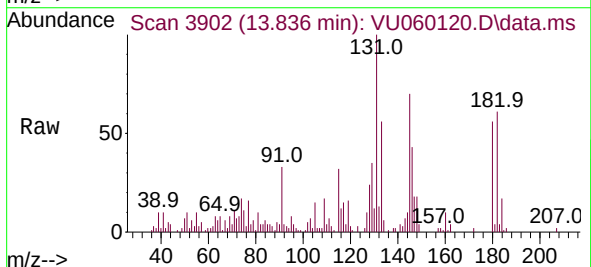
Instrument :
MSVOA_U
ClientSampleId :

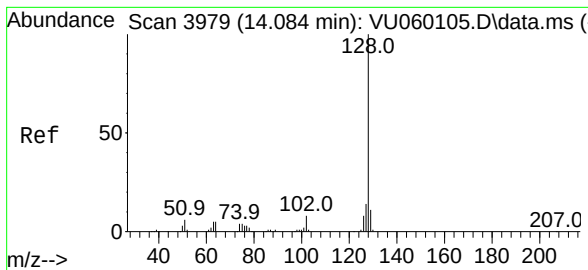
Tgt Ion: 75 Resp: 104
Ion Ratio Lower Upper
75 100
155 0.0 70.6 105.8#
157 0.0 99.4 149.2#



#70
1,2,4-trichlorobenzene
Concen: 0.941 ug/L
RT: 13.836 min Scan# 3902
Delta R.T. 0.000 min
Lab File: VU060120.D
Acq: 23 Jul 2024 17:22

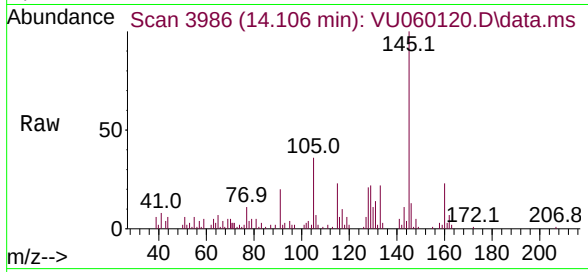
Tgt Ion:180 Resp: 12741
Ion Ratio Lower Upper
180 100
182 102.8 77.2 115.8
145 137.0 23.0 34.4#





#71
 Naphthalene
 Concen: 0.258 ug/L
 RT: 14.106 min Scan# 3986
 Delta R.T. 0.023 min
 Lab File: VU060120.D
 Acq: 23 Jul 2024 17:22

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	128	Resp:	4943
Ion Ratio	Lower	Upper	
128	100		
129	88.4	8.2	12.4#
127	24.3	10.6	16.0#

