

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU103124\
 Data File : VU061311.D
 Acq On : 31 Oct 2024 15:01
 Operator : MD/SY
 Sample : P4629-21
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 31 23:59:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR102324WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 31 23:55:38 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	175063	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	159567	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	77407	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	60664	5.101	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	102.000%
7) Chloroethane-d5	1.907	69	56621	5.194	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	103.800%
11) 1,1-Dichloroethene-d2	2.560	65	25308	4.974	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	99.400%
20) 2-Butanone-d5	4.624	46	121635	50.378	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.760%
24) Chloroform-d	5.052	84	112888	5.001	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.000%
26) 1,2-Dichloroethane-d4	5.695	65	59938	5.327	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.600%
32) Benzene-d6	5.718	84	238606	5.307	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.200%
36) 1,2-Dichloropropane-d6	6.682	67	73696	5.452	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	109.000%
41) Toluene-d8	7.891	98	219828	5.229	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	104.600%
43) trans-1,3-Dichloroprop...	8.174	79	27920	5.060	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	101.200%
46) 2-Hexanone-d5	8.627	63	113488	50.217	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.440%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	53280	5.212	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.200%
66) 1,2-Dichlorobenzene-d4	12.184	152	72514	5.290	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.800%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.599	62	400944	29.630	ug/L	99
12) 1,1-Dichloroethene	2.573	96	102875	9.939	ug/L	87
16) Methylene chloride	3.039	84	117163	9.606	ug/L	98
18) trans-1,2-Dichloroethene	3.348	96	83057	7.257	ug/L	99
22) cis-1,2-Dichloroethene	4.656	96	131906	10.090	ug/L	99
27) 1,2-Dichloroethane	5.785	62	177017	12.342	ug/L	99
29) 1,1,1-Trichloroethane	5.306	97	292089	14.948	ug/L	99
31) Carbon tetrachloride	5.515	117	109556	6.553	ug/L	98
33) Benzene	5.763	78	662942	13.434	ug/L	100
34) Trichloroethene	6.537	95	46806	3.487	ug/L	99
35) Methylcyclohexane	6.682	83	16163	0.756	ug/L #	21
37) 1,2-Dichloropropane	6.782	63	190630	15.240	ug/L	100
42) Toluene	7.962	91	539541	10.068	ug/L	100
45) 1,1,2-Trichloroethane	8.393	97	38806	4.311	ug/L	98
47) Tetrachloroethene	8.547	164	133988	14.291	ug/L	99
49) Dibromochloromethane	8.547	129	135614	13.283	ug/L #	12
51) Chlorobenzene	9.438	112	381940	11.276	ug/L	99
52) Ethylbenzene	9.563	91	859705	14.584	ug/L	100
53) m,p-Xylene	9.682	106	387646	17.262	ug/L	97

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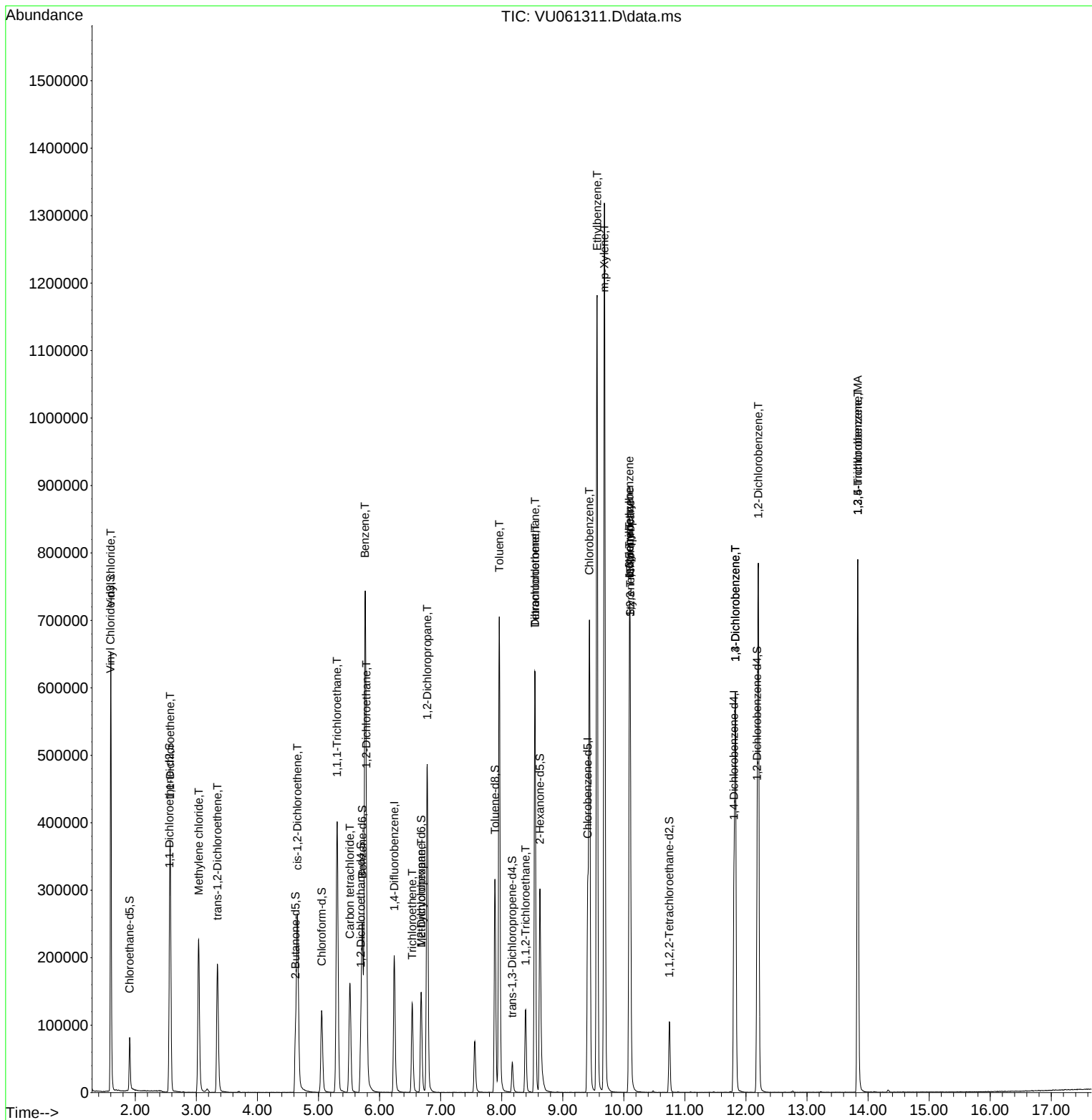
Instrument :
MSVOA_U
ClientSampleId :

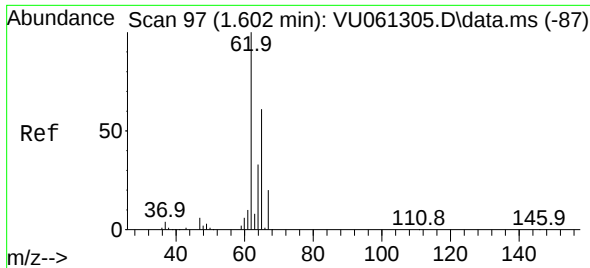
Quant Time: Oct 31 23:59:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR102324WMA.M
Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Oct 31 23:55:38 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.094	106	144307	6.511	ug/L	97
55) Styrene	10.106	104	227431	6.401	ug/L	100
60) Isopropylbenzene	10.094	105	79130	1.338	ug/L #	1
61) 1,2,3-Trichloropropane	10.106	75	12710	1.648	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.094	105	79130	1.644	ug/L #	29
64) 1,3-Dichlorobenzene	11.830	146	224905	9.037	ug/L	97
65) 1,4-Dichlorobenzene	11.830	146	224905	8.865	ug/L	99
67) 1,2-Dichlorobenzene	12.203	146	287384	12.269	ug/L	99
69) 1,3,5-Trichlorobenzene	13.833	180	239526	14.040	ug/L	99
70) 1,2,4-trichlorobenzene	13.833	180	239594	17.403	ug/L	98

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

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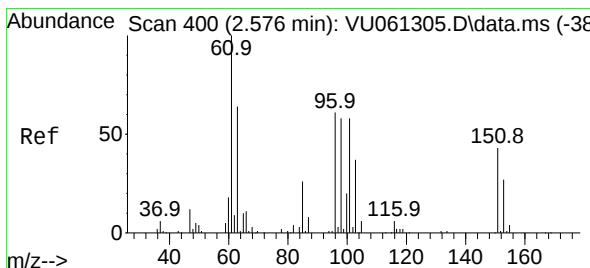
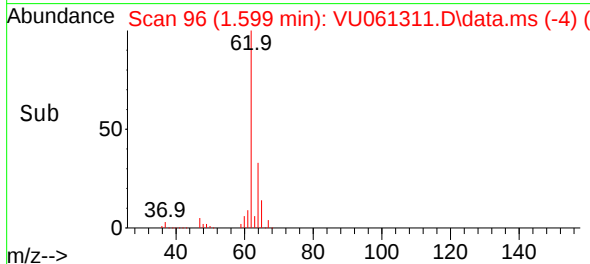
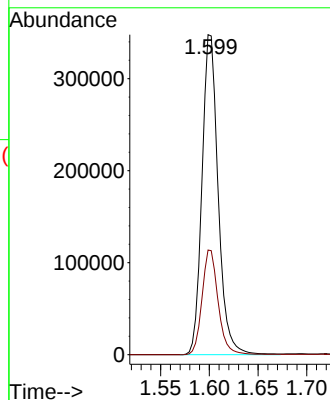
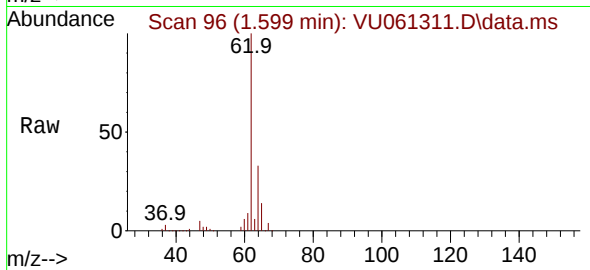




#5
 Vinyl chloride
 Concen: 29.630 ug/L
 RT: 1.599 min Scan# 90
 Delta R.T. -0.004 min
 Lab File: VU061311.D
 Acq: 31 Oct 2024 15:01

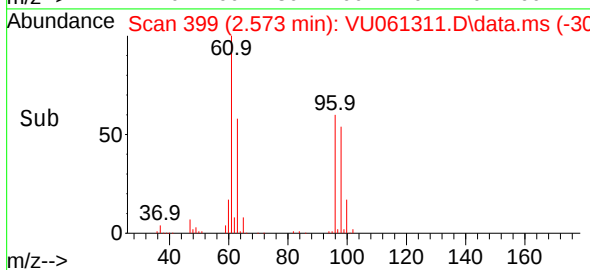
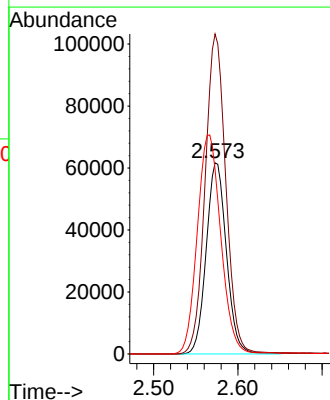
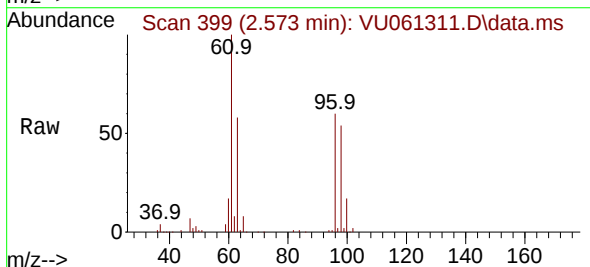
Instrument :
 MSVOA_U
 ClientSampleId :

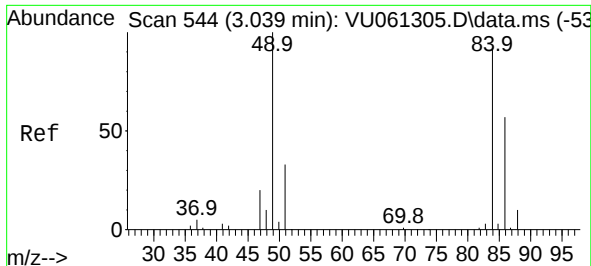
Tgt Ion: 62 Resp: 400944
 Ion Ratio Lower Upper
 62 100
 64 32.7 22.6 42.0



#12
 1,1-Dichloroethene
 Concen: 9.939 ug/L
 RT: 2.573 min Scan# 399
 Delta R.T. -0.004 min
 Lab File: VU061311.D
 Acq: 31 Oct 2024 15:01

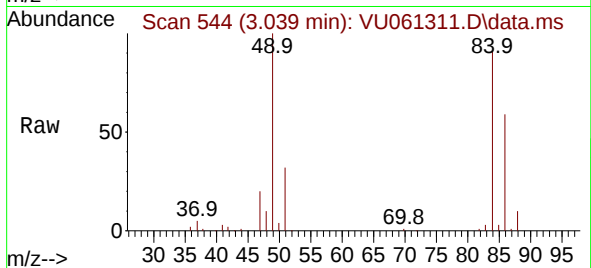
Tgt Ion: 96 Resp: 102875
 Ion Ratio Lower Upper
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 61 167.3 119.1 221.1
 63 96.3 89.4 166.0



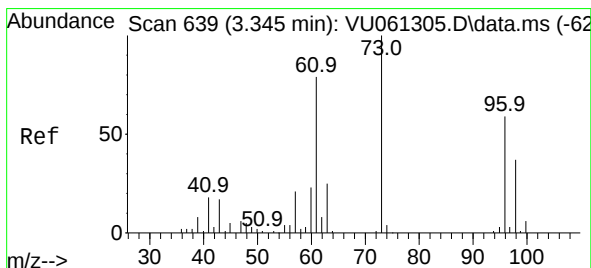
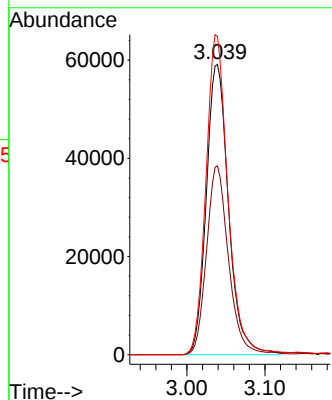
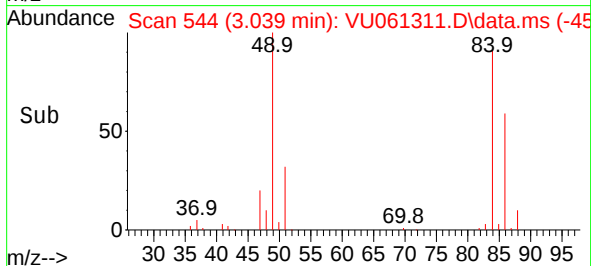


#16
Methylene chloride
Concen: 9.606 ug/L
RT: 3.039 min Scan# 54
Delta R.T. -0.000 min
Lab File: VU061311.D
Acq: 31 Oct 2024 15:01

Instrument :
MSVOA_U
ClientSampleId :

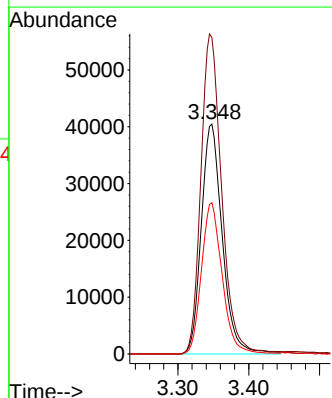
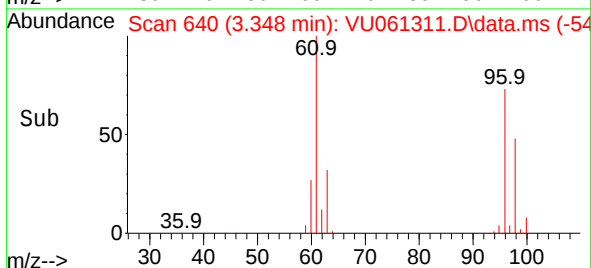
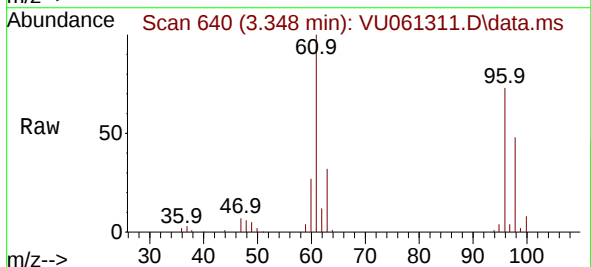


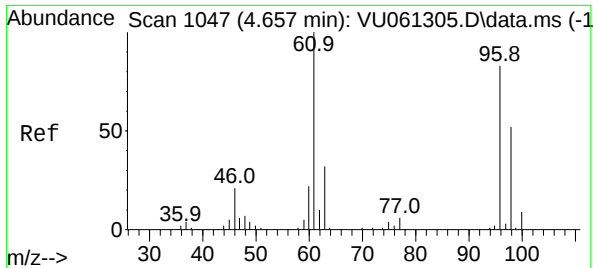
Tgt Ion: 84 Resp: 117163
Ion Ratio Lower Upper
84 100
86 65.1 43.5 80.7
49 109.7 75.7 140.7



#18
trans-1,2-Dichloroethene
Concen: 7.257 ug/L
RT: 3.348 min Scan# 640
Delta R.T. 0.003 min
Lab File: VU061311.D
Acq: 31 Oct 2024 15:01

Tgt Ion: 96 Resp: 83057
Ion Ratio Lower Upper
96 100
61 137.7 97.9 181.7
98 65.8 46.2 85.8

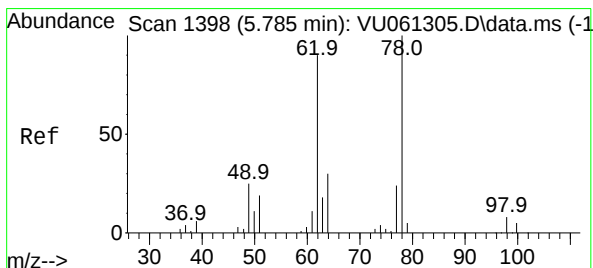
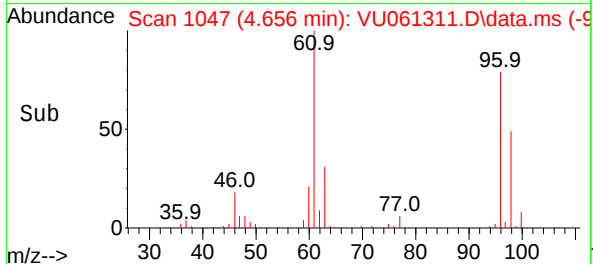
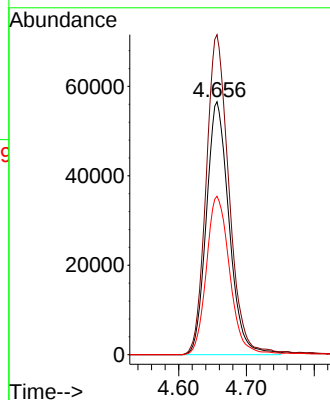
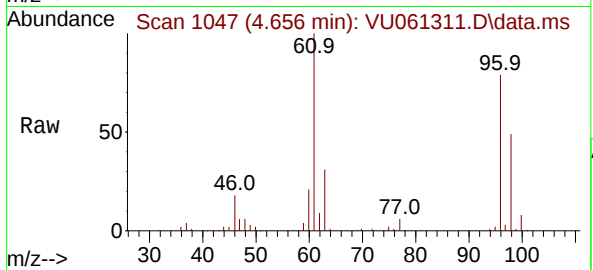




#22
 cis-1,2-Dichloroethene
 Concen: 10.090 ug/L
 RT: 4.656 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VU061311.D
 Acq: 31 Oct 2024 15:01

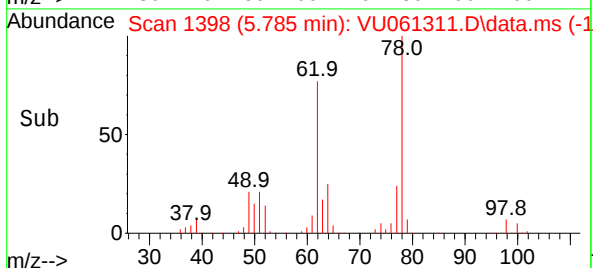
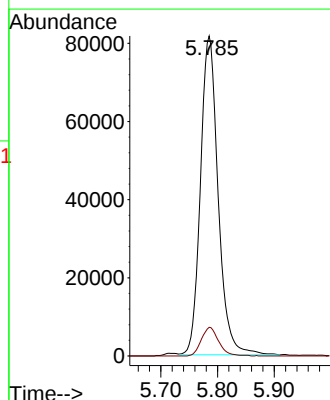
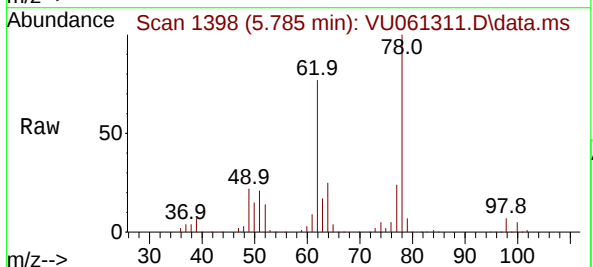
Instrument :
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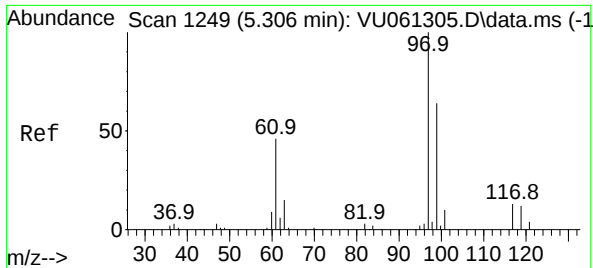
Tgt Ion: 96 Resp: 131906
 Ion Ratio Lower Upper
 96 100
 61 126.5 88.1 163.5
 98 62.6 45.0 83.6



#27
 1,2-Dichloroethane
 Concen: 12.342 ug/L
 RT: 5.785 min Scan# 1398
 Delta R.T. -0.000 min
 Lab File: VU061311.D
 Acq: 31 Oct 2024 15:01

Tgt Ion: 62 Resp: 177017
 Ion Ratio Lower Upper
 62 100
 98 8.9 7.4 11.0

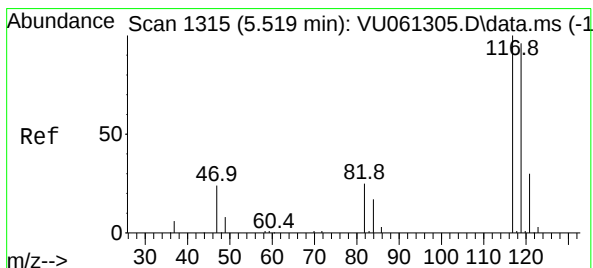
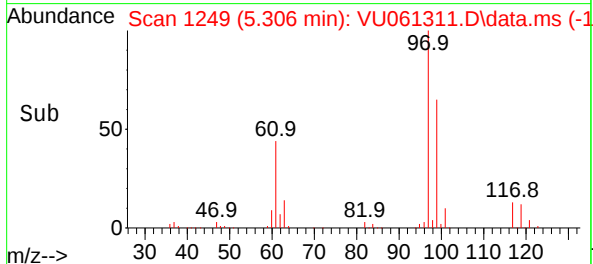
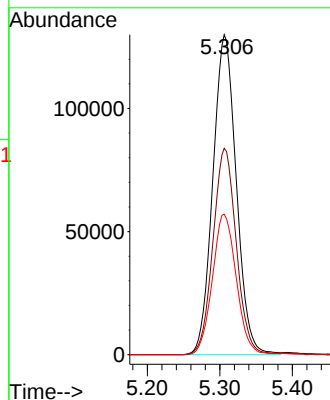
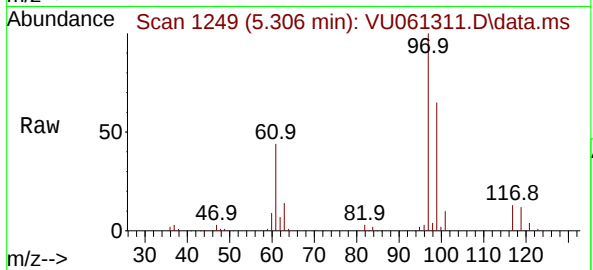




#29
1,1,1-Trichloroethane
Concen: 14.948 ug/L
RT: 5.306 min Scan# 1314
Delta R.T. -0.000 min
Lab File: VU061311.D
Acq: 31 Oct 2024 15:01

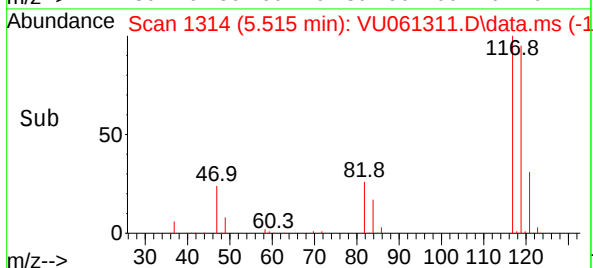
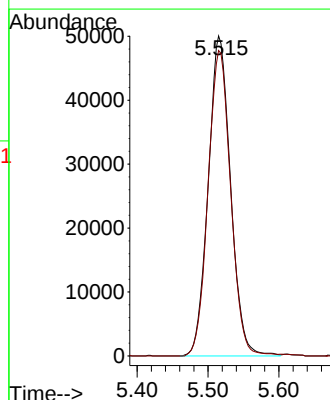
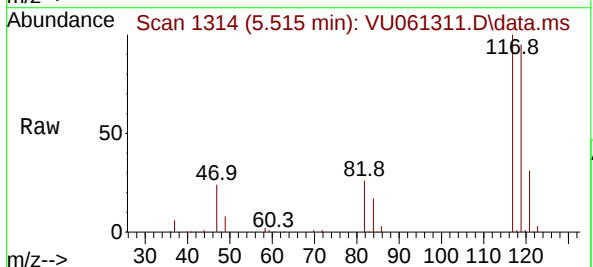
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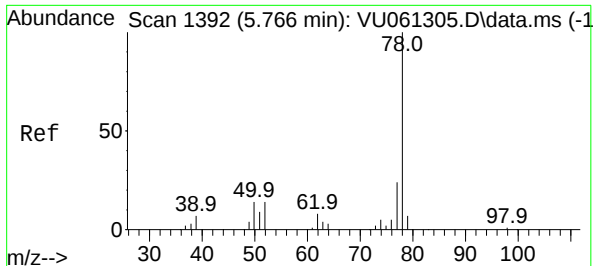
Tgt Ion: 97 Resp: 292089
Ion Ratio Lower Upper
97 100
99 64.1 50.8 76.2
61 45.0 36.1 54.1



#31
Carbon tetrachloride
Concen: 6.553 ug/L
RT: 5.515 min Scan# 1314
Delta R.T. -0.004 min
Lab File: VU061311.D
Acq: 31 Oct 2024 15:01

Tgt Ion:117 Resp: 109556
Ion Ratio Lower Upper
117 100
119 96.4 75.5 113.3

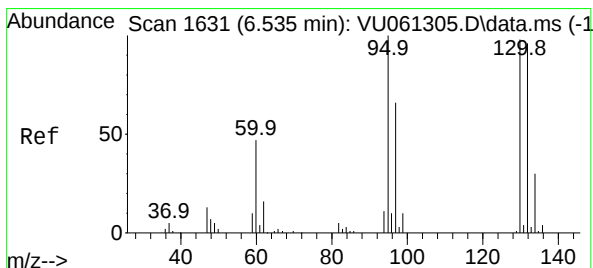
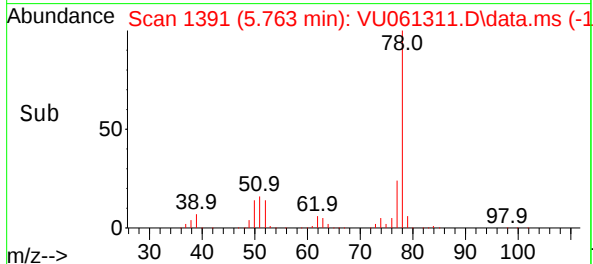
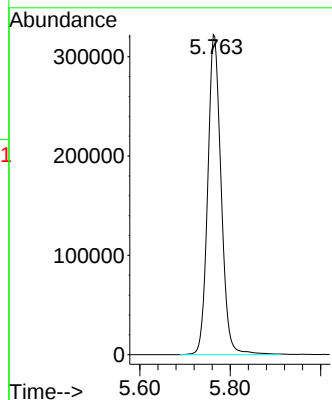
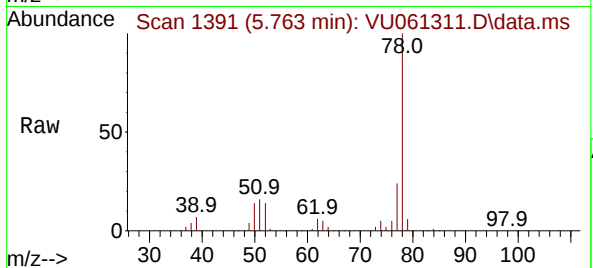




#33
Benzene
Concen: 13.434 ug/L
RT: 5.763 min Scan# 1392
Delta R.T. -0.004 min
Lab File: VU061311.D
Acq: 31 Oct 2024 15:01

Instrument :
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ClientSampleId :

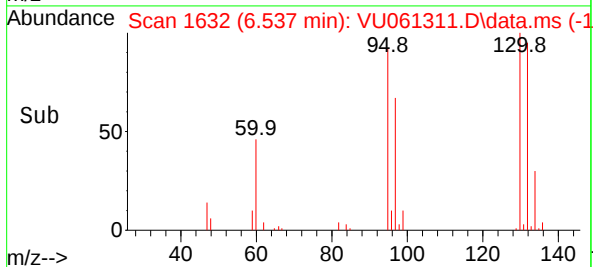
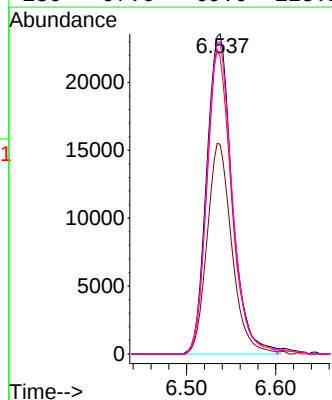
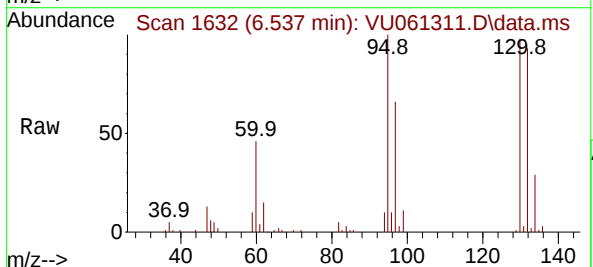
Tgt Ion: 78 Resp: 662942

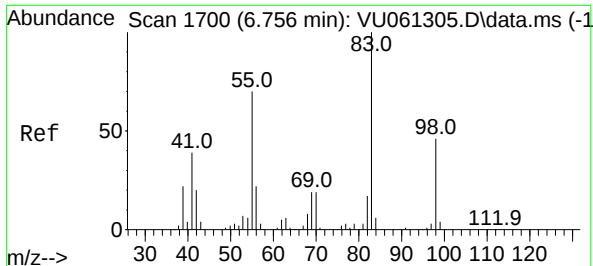


#34
Trichloroethene
Concen: 3.487 ug/L
RT: 6.537 min Scan# 1632
Delta R.T. 0.003 min
Lab File: VU061311.D
Acq: 31 Oct 2024 15:01

Tgt Ion: 95 Resp: 46806

Ion	Ratio	Lower	Upper
95	100		
97	65.6	46.1	85.7
132	92.8	66.1	122.7
130	97.6	69.0	128.2

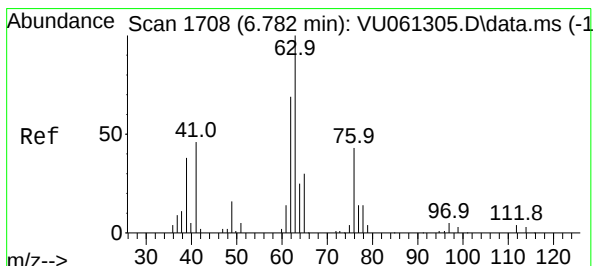
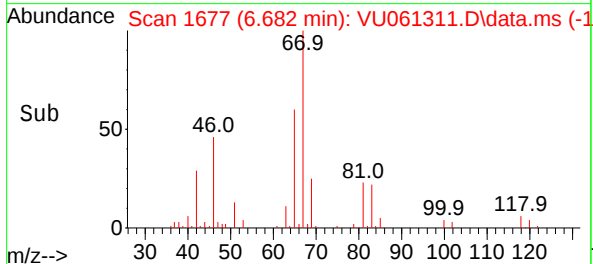
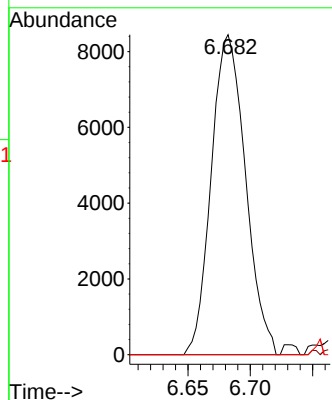
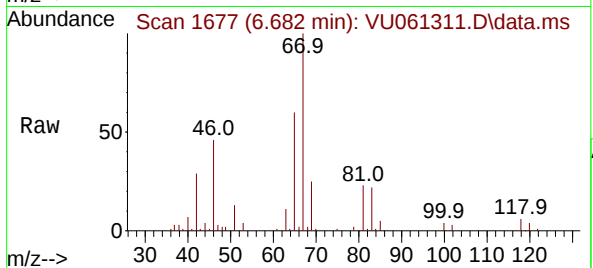




#35
Methylcyclohexane
Concen: 0.756 ug/L
RT: 6.682 min Scan# 1
Delta R.T. -0.074 min
Lab File: VU061311.D
Acq: 31 Oct 2024 15:01

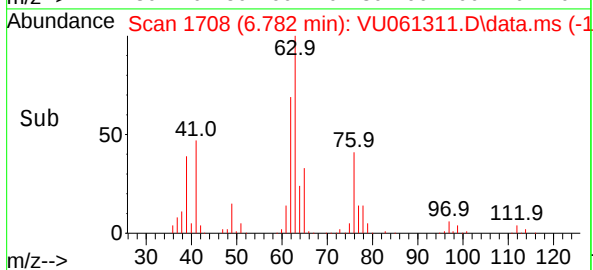
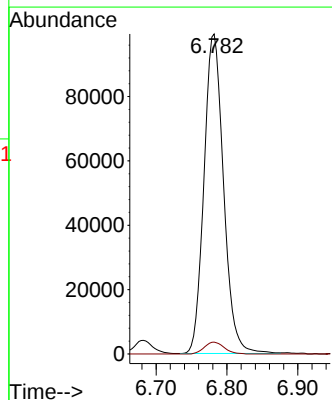
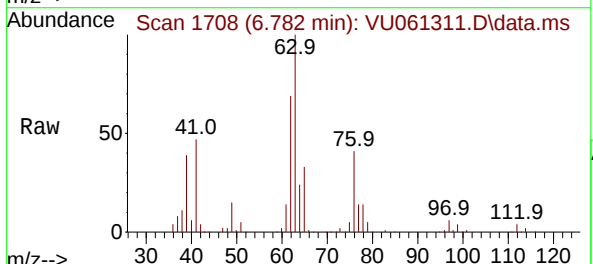
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MSVOA_U
ClientSampleId :

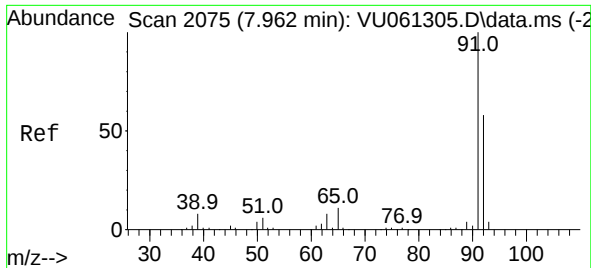
Tgt Ion: 83 Resp: 16163
Ion Ratio Lower Upper
83 100
55 0.3 55.9 83.9#
98 0.0 35.9 53.9#



#37
1,2-Dichloropropane
Concen: 15.240 ug/L
RT: 6.782 min Scan# 1708
Delta R.T. -0.000 min
Lab File: VU061311.D
Acq: 31 Oct 2024 15:01

Tgt Ion: 63 Resp: 190630
Ion Ratio Lower Upper
63 100
112 3.8 3.0 4.4





#42

Toluene

Concen: 10.068 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. -0.000 min

Lab File: VU061311.D

Acq: 31 Oct 2024 15:01

Instrument :

MSVOA_U

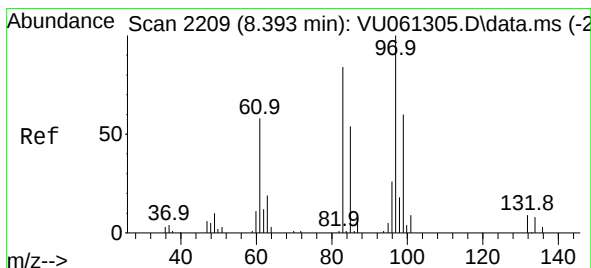
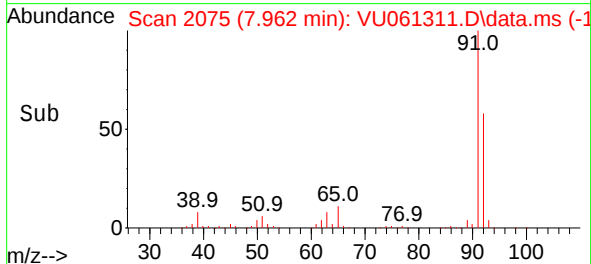
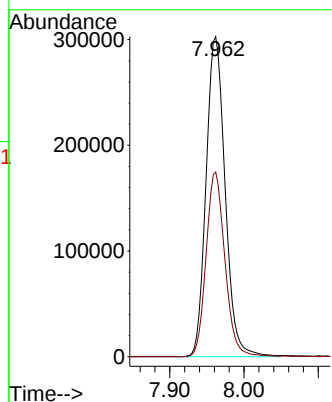
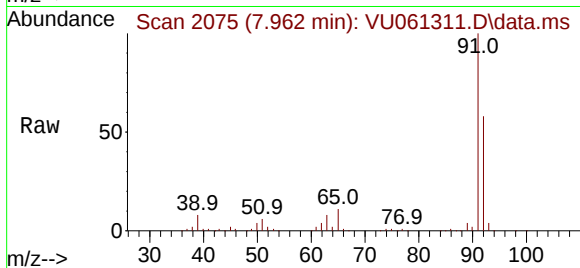
ClientSampleId :

Tgt Ion: 91 Resp: 539541

Ion Ratio Lower Upper

91 100

92 57.7 40.3 74.8



#45

1,1,2-Trichloroethane

Concen: 4.311 ug/L

RT: 8.393 min Scan# 2209

Delta R.T. -0.000 min

Lab File: VU061311.D

Acq: 31 Oct 2024 15:01

Tgt Ion: 97 Resp: 38806

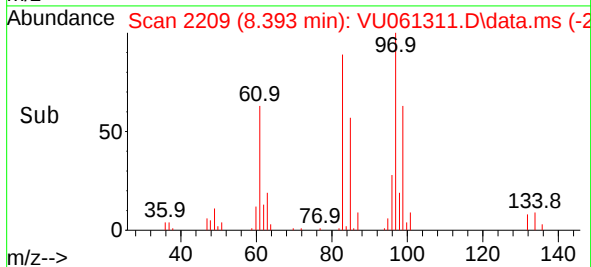
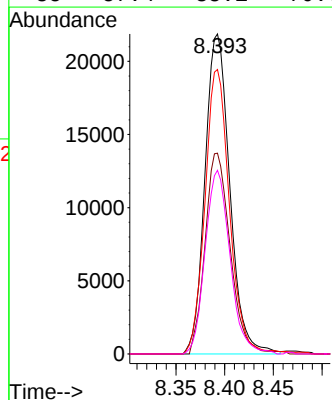
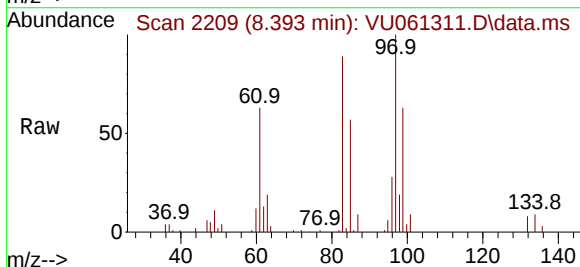
Ion Ratio Lower Upper

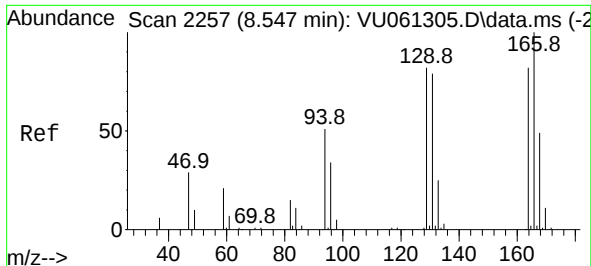
97 100

99 62.8 44.1 81.9

83 88.9 61.2 113.6

85 57.4 38.1 70.7





#47

Tetrachloroethene

Concen: 14.291 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.000 min

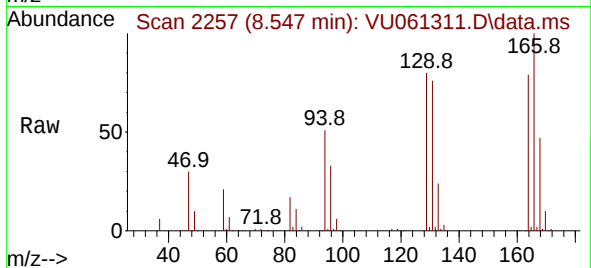
Lab File: VU061311.D

Acq: 31 Oct 2024 15:01

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 133988

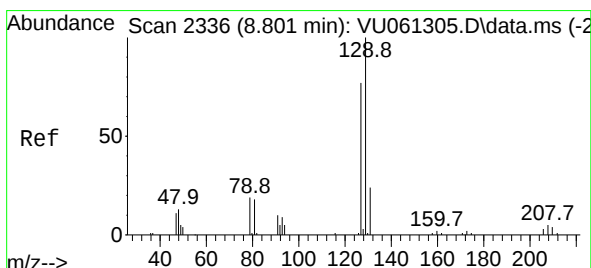
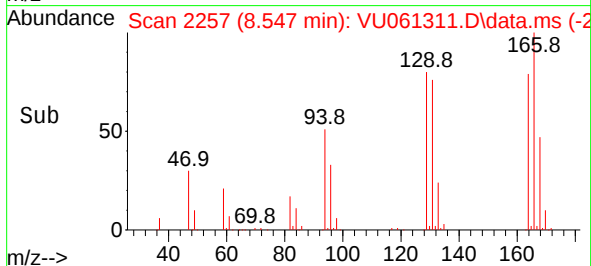
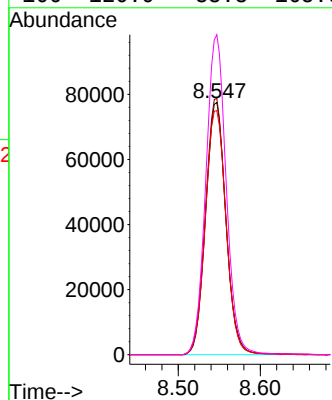
Ion Ratio Lower Upper

164 100

129 101.6 69.9 129.7

131 96.8 68.3 126.8

166 126.9 88.8 165.0



#49

Dibromochloromethane

Concen: 13.283 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.254 min

Lab File: VU061311.D

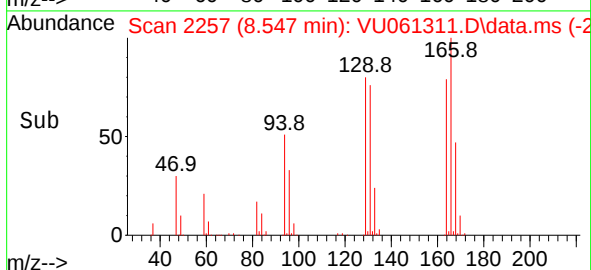
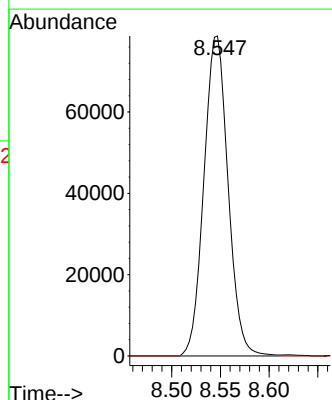
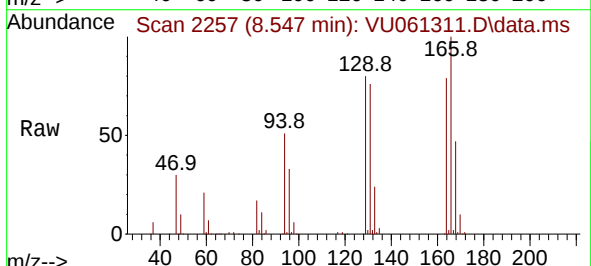
Acq: 31 Oct 2024 15:01

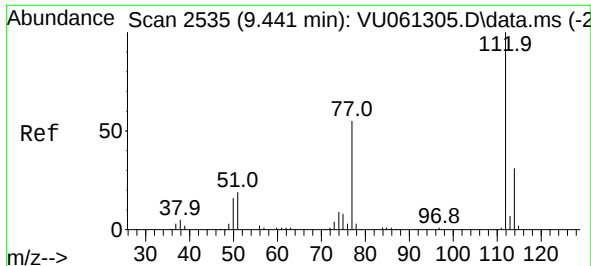
Tgt Ion:129 Resp: 135614

Ion Ratio Lower Upper

129 100

127 0.0 51.8 96.2#





#51

Chlorobenzene

Concen: 11.276 ug/L

RT: 9.438 min Scan# 2534

Delta R.T. -0.004 min

Lab File: VU061311.D

Acq: 31 Oct 2024 15:01

Instrument :

MSVOA_U

ClientSampleId :

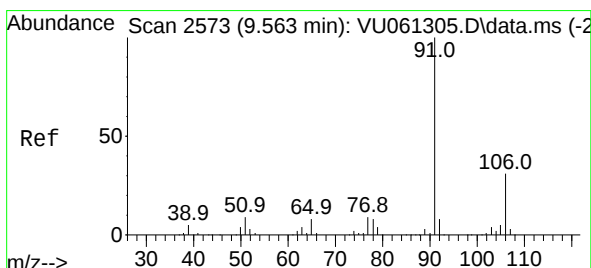
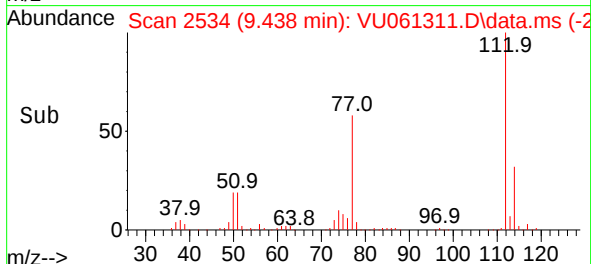
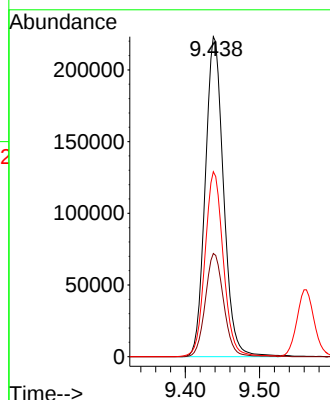
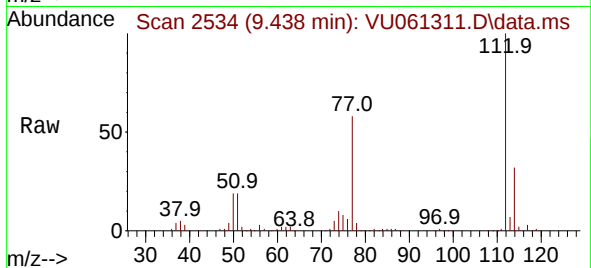
Tgt Ion:112 Resp: 381940

Ion Ratio Lower Upper

112 100

114 32.3 22.9 42.5

77 57.8 47.1 70.7



#52

Ethylbenzene

Concen: 14.584 ug/L

RT: 9.563 min Scan# 2573

Delta R.T. -0.000 min

Lab File: VU061311.D

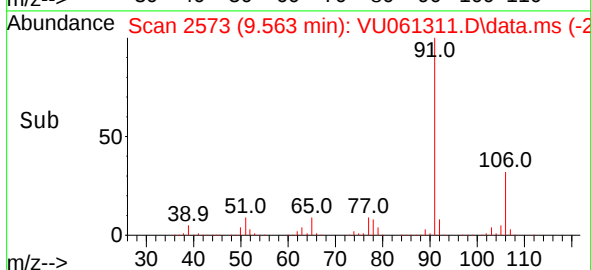
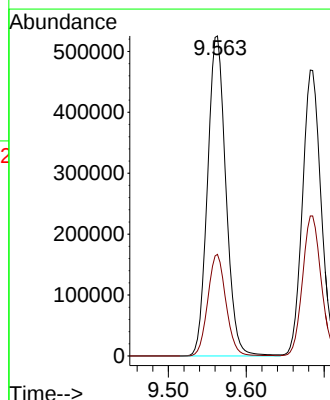
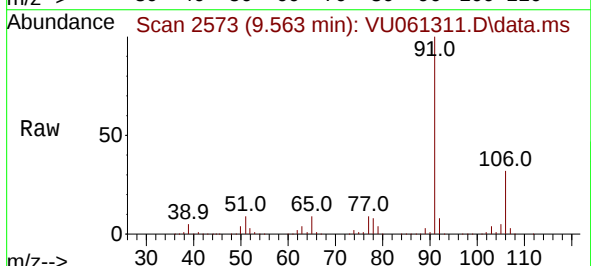
Acq: 31 Oct 2024 15:01

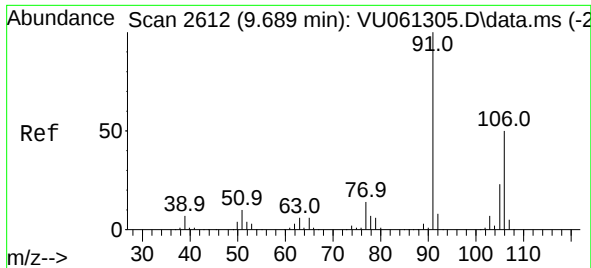
Tgt Ion: 91 Resp: 859705

Ion Ratio Lower Upper

91 100

106 31.8 22.0 41.0

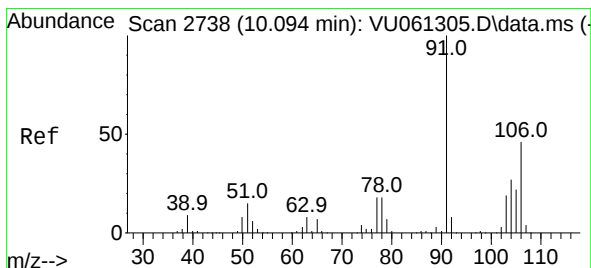
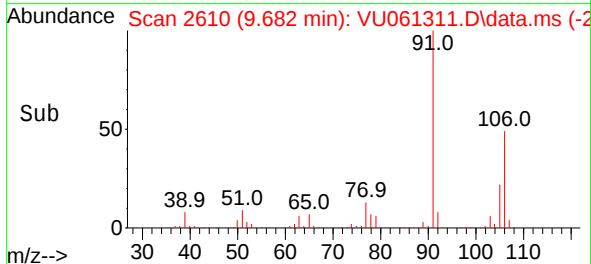
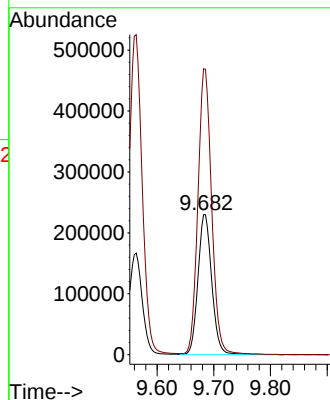
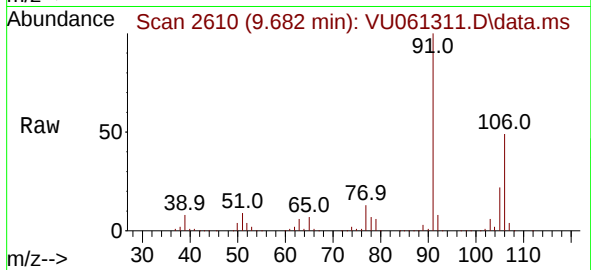




#53
m,p-Xylene
Concen: 17.262 ug/L
RT: 9.682 min Scan# 2610
Delta R.T. -0.007 min
Lab File: VU061311.D
Acq: 31 Oct 2024 15:01

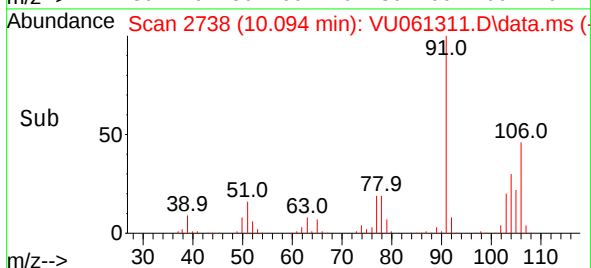
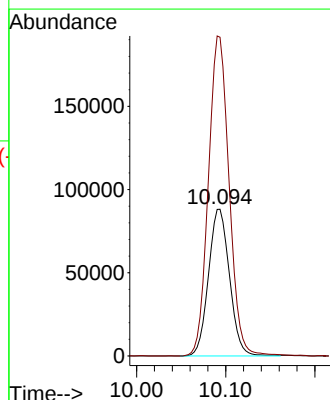
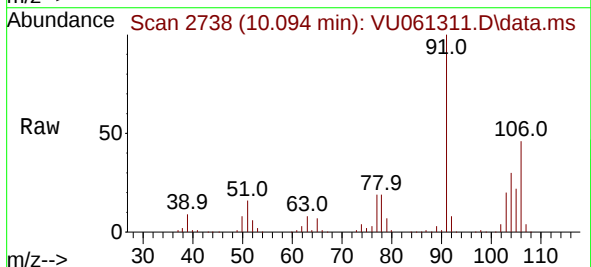
Instrument :
MSVOA_U
ClientSampleId :

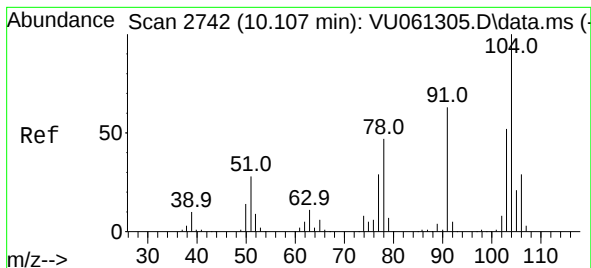
Tgt Ion:106 Resp: 387646
Ion Ratio Lower Upper
106 100
91 204.2 145.7 270.7



#54
o-Xylene
Concen: 6.511 ug/L
RT: 10.094 min Scan# 2738
Delta R.T. -0.000 min
Lab File: VU061311.D
Acq: 31 Oct 2024 15:01

Tgt Ion:106 Resp: 144307
Ion Ratio Lower Upper
106 100
91 217.1 148.8 276.4





#55

Styrene

Concen: 6.401 ug/L

RT: 10.106 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU061311.D

Acq: 31 Oct 2024 15:01

Instrument :

MSVOA_U

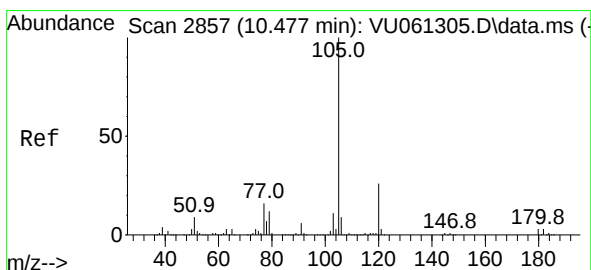
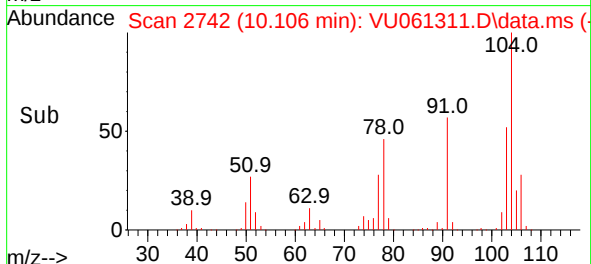
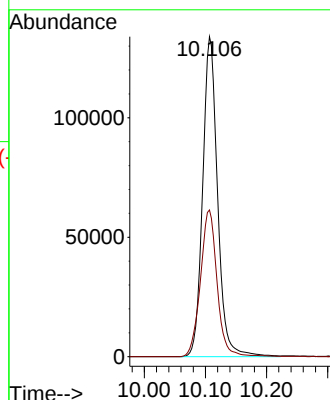
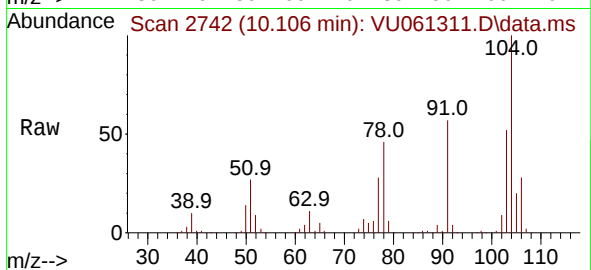
ClientSampleId :

Tgt Ion:104 Resp: 227431

Ion Ratio Lower Upper

104 100

78 45.8 32.3 59.9



#60

Isopropylbenzene

Concen: 1.338 ug/L

RT: 10.094 min Scan# 2738

Delta R.T. -0.383 min

Lab File: VU061311.D

Acq: 31 Oct 2024 15:01

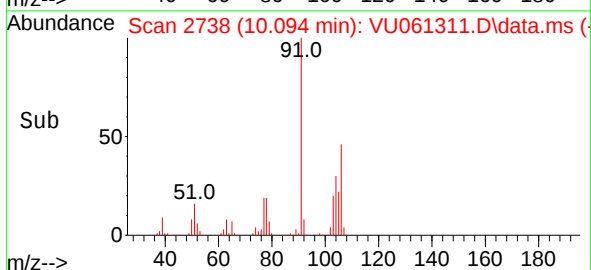
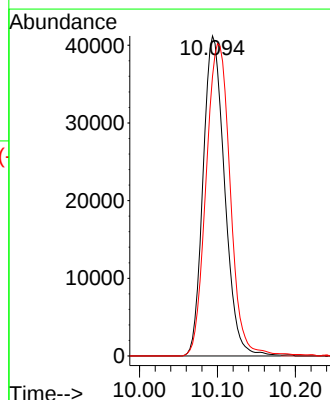
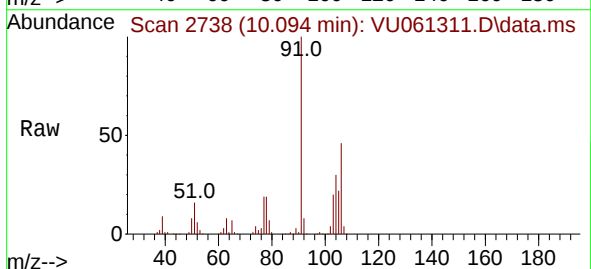
Tgt Ion:105 Resp: 79130

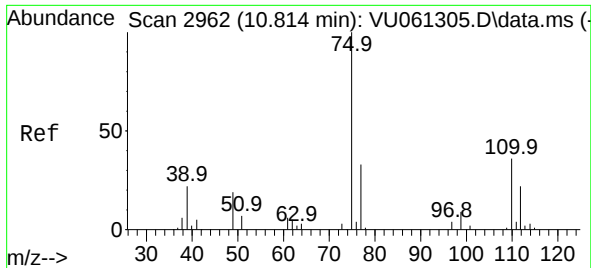
Ion Ratio Lower Upper

105 100

120 0.0 21.2 31.8#

77 109.6 12.6 19.0#

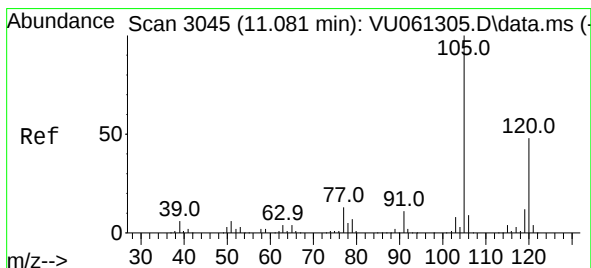
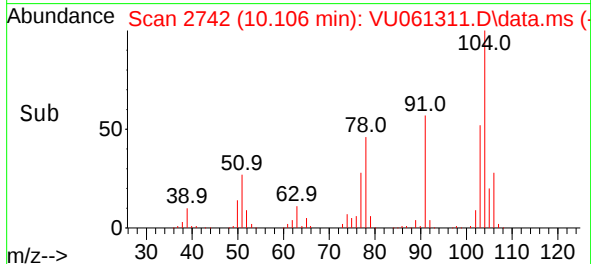
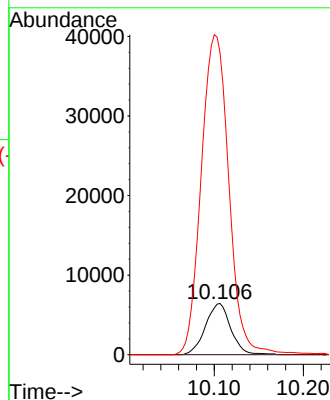
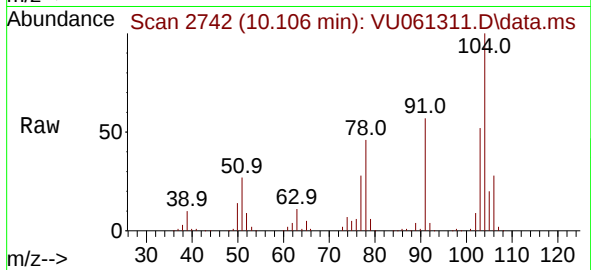




#61
1,2,3-Trichloropropane
Concen: 1.648 ug/L
RT: 10.106 min Scan# 21
Delta R.T. -0.708 min
Lab File: VU061311.D
Acq: 31 Oct 2024 15:01

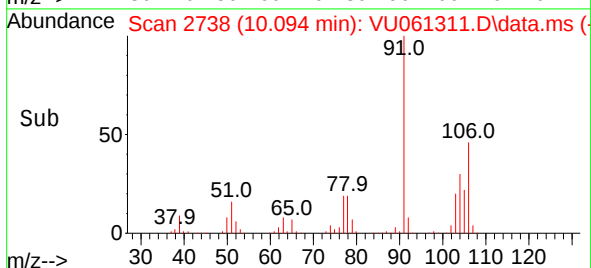
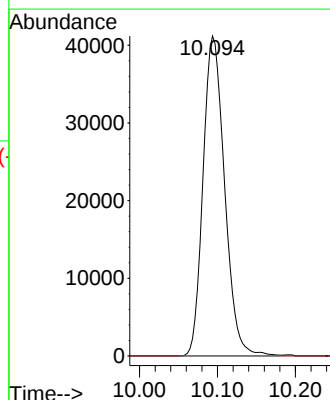
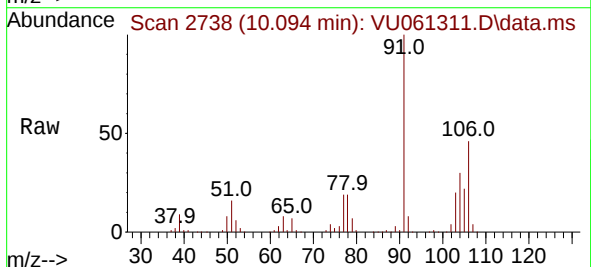
Instrument :
MSVOA_U
ClientSampleId :

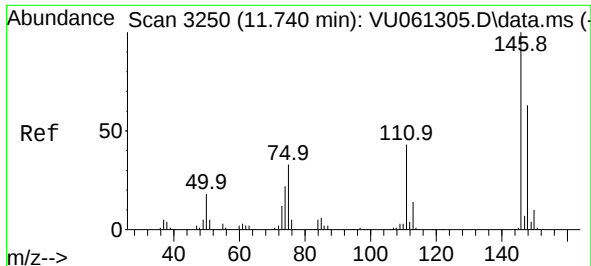
Tgt Ion: 75 Resp: 12710
Ion Ratio Lower Upper
75 100
110 0.0 28.8 43.2#
77 682.3 25.7 38.5#



#62
1,3,5-Trimethylbenzene
Concen: 1.644 ug/L
RT: 10.094 min Scan# 2738
Delta R.T. -0.987 min
Lab File: VU061311.D
Acq: 31 Oct 2024 15:01

Tgt Ion:105 Resp: 79130
Ion Ratio Lower Upper
105 100
120 0.0 38.7 58.1#





#64

1,3-Dichlorobenzene

Concen: 9.037 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. 0.090 min

Lab File: VU061311.D

Acq: 31 Oct 2024 15:01

Instrument :

MSVOA_U

ClientSampleId :

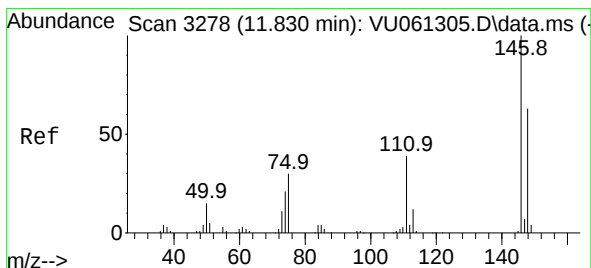
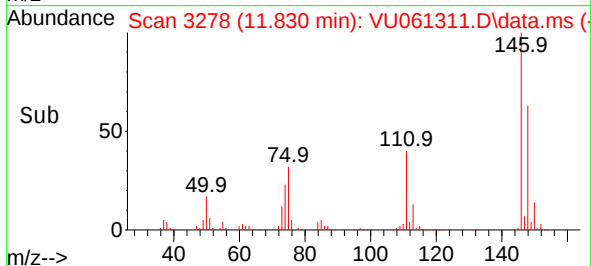
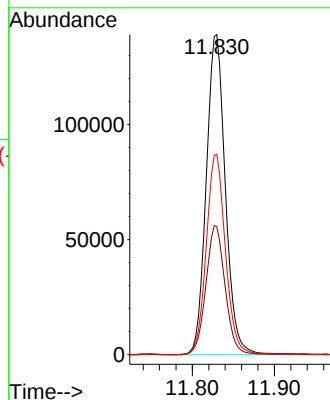
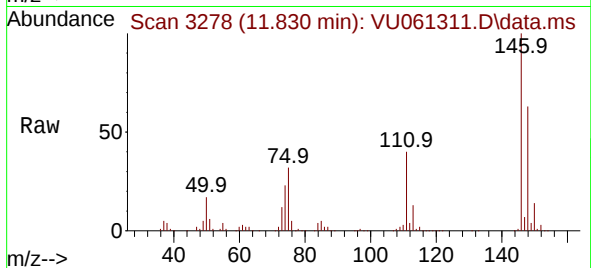
Tgt Ion:146 Resp: 224905

Ion Ratio Lower Upper

146 100

111 40.0 30.0 55.8

148 62.6 45.1 83.7



#65

1,4-Dichlorobenzene

Concen: 8.865 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. -0.000 min

Lab File: VU061311.D

Acq: 31 Oct 2024 15:01

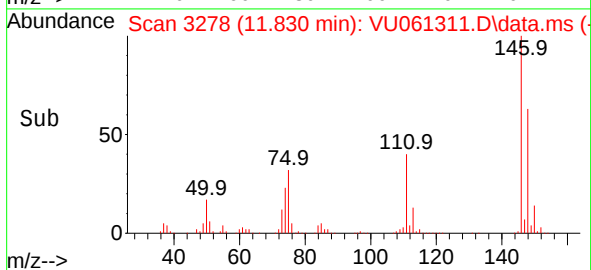
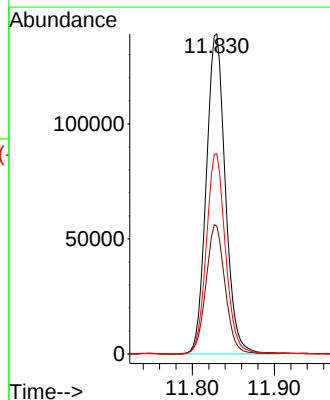
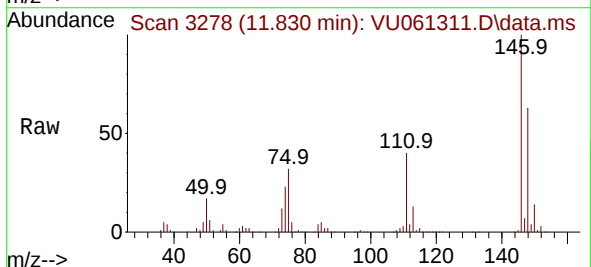
Tgt Ion:146 Resp: 224905

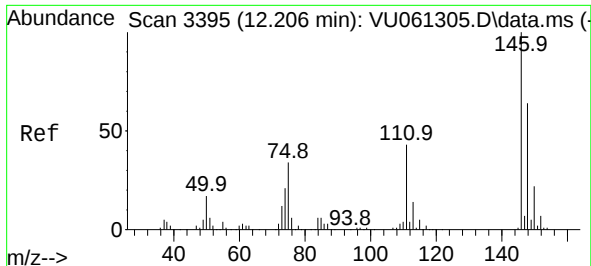
Ion Ratio Lower Upper

146 100

111 40.0 28.2 52.4

148 62.6 43.3 80.3





#67

1,2-Dichlorobenzene

Concen: 12.269 ug/L

RT: 12.203 min Scan# 31

Delta R.T. -0.004 min

Lab File: VU061311.D

Acq: 31 Oct 2024 15:01

Instrument :

MSVOA_U

ClientSampleId :

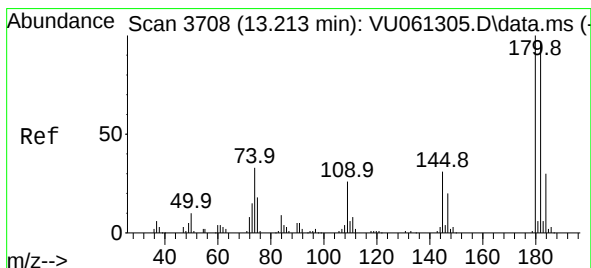
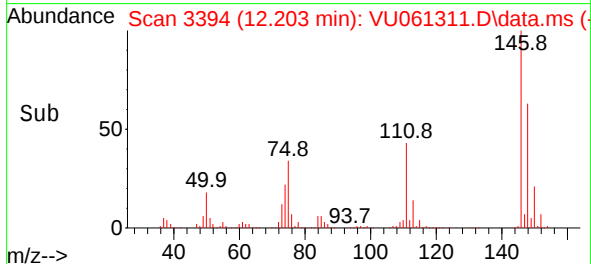
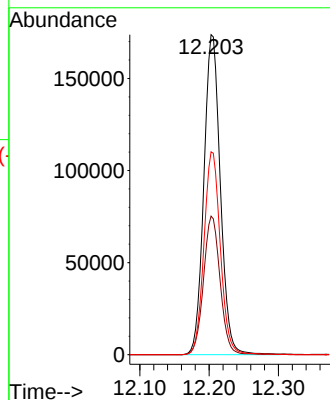
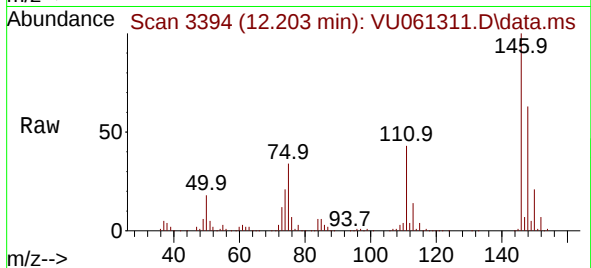
Tgt Ion:146 Resp: 287384

Ion Ratio Lower Upper

146 100

111 43.3 35.2 52.8

148 63.4 51.3 76.9



#69

1,3,5-Trichlorobenzene

Concen: 14.040 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. 0.620 min

Lab File: VU061311.D

Acq: 31 Oct 2024 15:01

Tgt Ion:180 Resp: 239526

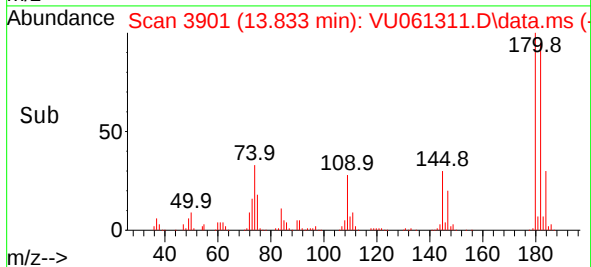
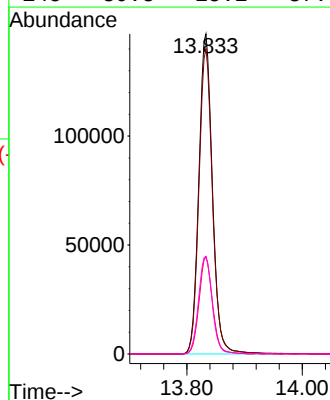
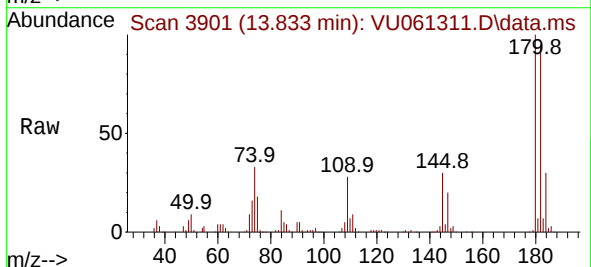
Ion Ratio Lower Upper

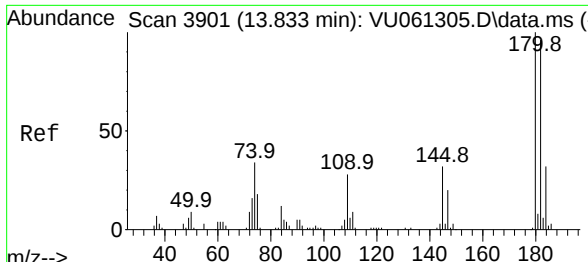
180 100

182 95.2 77.4 116.2

184 30.1 24.4 36.6

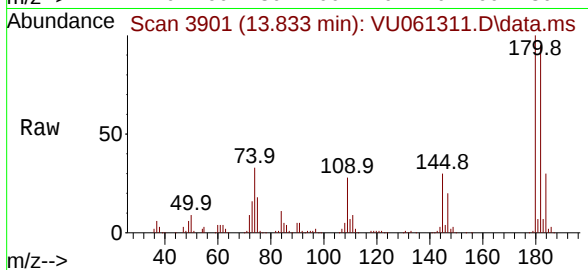
145 30.8 25.2 37.8





#70
 1,2,4-trichlorobenzene
 Concen: 17.403 ug/L
 RT: 13.833 min Scan# 3901
 Delta R.T. -0.000 min
 Lab File: VU061311.D
 Acq: 31 Oct 2024 15:01

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 239594

Ion	Ratio	Lower	Upper
180	100		
182	95.2	77.2	115.8
145	30.8	25.6	38.4

