

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU011625\
 Data File : VU062812.D
 Acq On : 16 Jan 2025 12:09
 Operator : MD/SY
 Sample : Q1072-18DL 2X
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 GCQA0DL

Quant Time: Jan 16 22:05:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR010225WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Jan 16 22:02:47 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.235	114	96739	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.405	117	90638	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	45502	5.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	25207	4.705	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.000%
7) Chloroethane-d5	1.901	69	20589	4.777	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.600%
11) 1,1-Dichloroethene-d2	2.557	65	12889	4.644	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	92.800%
20) 2-Butanone-d5	4.605	46	53164	48.550	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.100%
24) Chloroform-d	5.049	84	61396	4.658	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.200%
26) 1,2-Dichloroethane-d4	5.689	65	35313	4.939	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.800%
32) Benzene-d6	5.714	84	106286	4.797	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	96.000%
36) 1,2-Dichloropropane-d6	6.679	67	30189	4.914	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.200%
41) Toluene-d8	7.888	98	101363	4.696	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.000%
43) trans-1,3-Dichloroprop...	8.171	79	14785	4.828	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	96.600%
46) 2-Hexanone-d5	8.621	63	44493	46.200	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.400%
56) 1,1,2,2-Tetrachloroeth...	10.746	84	24825	4.825	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.600%
66) 1,2-Dichlorobenzene-d4	12.183	152	38717	5.114	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.200%

Target Compounds					Qvalue	
5) Vinyl chloride	1.599	62	107346	15.414	ug/L	99
12) 1,1-Dichloroethene	2.570	96	32883	5.476	ug/L	92
16) Methylene chloride	3.033	84	34445	5.236	ug/L	96
18) trans-1,2-Dichloroethene	3.345	96	25459	3.957	ug/L	98
22) cis-1,2-Dichloroethene	4.653	96	38289	5.465	ug/L	93
27) 1,2-Dichloroethane	5.779	62	61430	6.636	ug/L	100
29) 1,1,1-Trichloroethane	5.303	97	112393	8.175	ug/L	99
31) Carbon tetrachloride	5.512	117	45785	3.624	ug/L	100
33) Benzene	5.759	78	185040	7.106	ug/L	100
34) Trichloroethene	6.531	95	15663	1.761	ug/L	98
37) 1,2-Dichloropropane	6.779	63	46328	7.541	ug/L	99
42) Toluene	7.959	91	154784	5.424	ug/L	99
45) 1,1,2-Trichloroethane	8.389	97	11589	2.323	ug/L	97
47) Tetrachloroethene	8.541	164	48110	7.852	ug/L	95
51) Chlorobenzene	9.434	112	112943	6.052	ug/L	99
52) Ethylbenzene	9.560	91	254753	7.867	ug/L	98
53) m,p-Xylene	9.682	106	112598	9.297	ug/L	97
54) o-Xylene	10.090	106	41637	3.589	ug/L	98
55) Styrene	10.106	104	67402	3.474	ug/L	97

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Thu Jan 16 22:02:47 2025
Response via : Initial Calibration

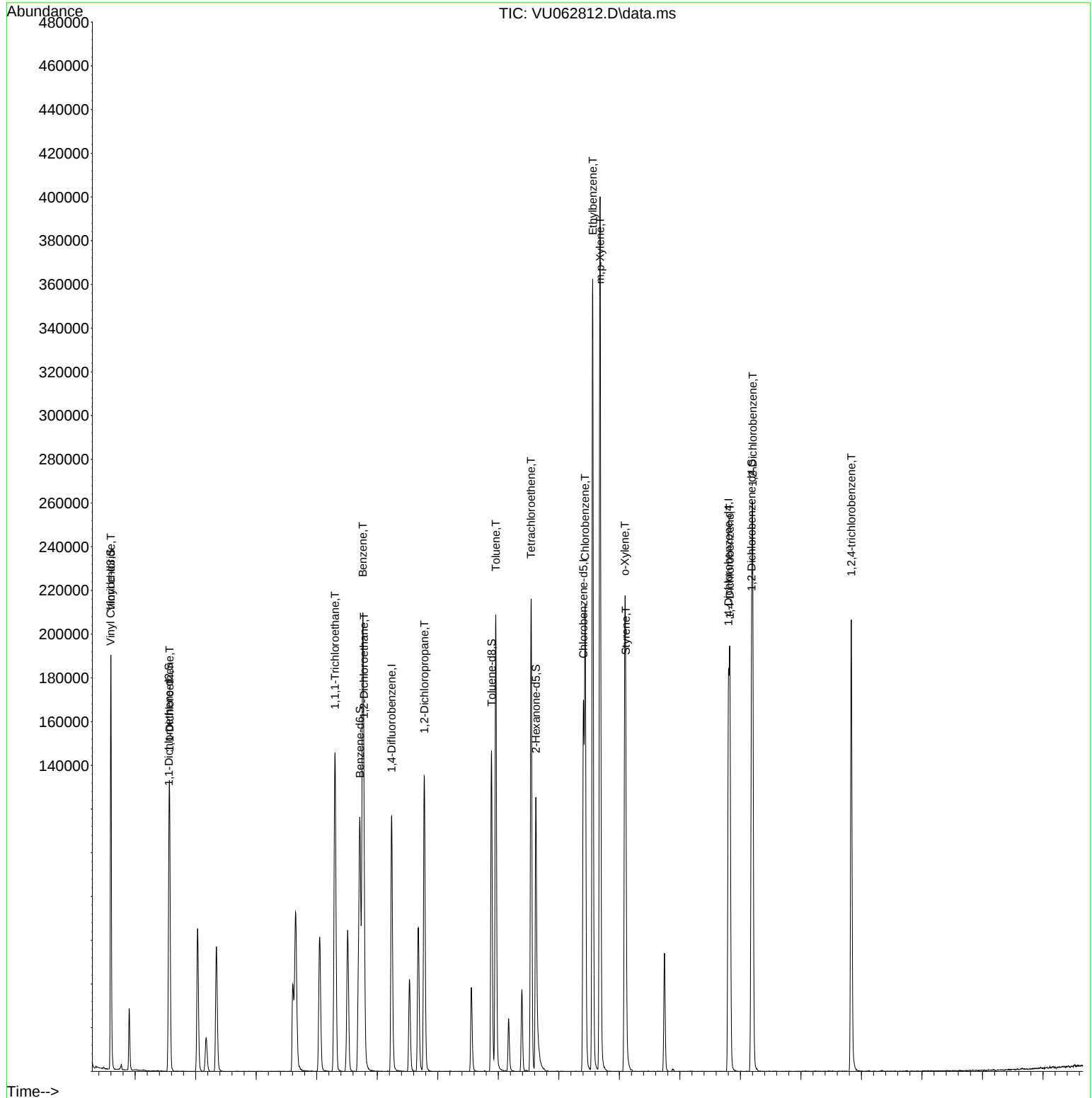
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.827	146	72880	4.972	ug/L	97
67) 1,2-Dichlorobenzene	12.203	146	94011	6.900	ug/L	99
70) 1,2,4-trichlorobenzene	13.833	180	67182	7.619	ug/L	99

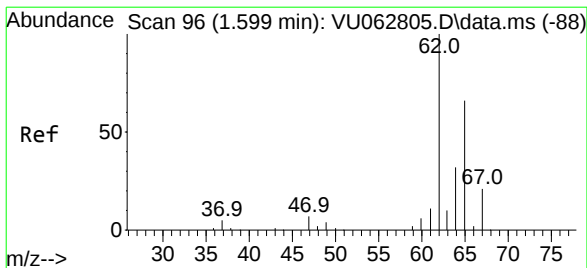
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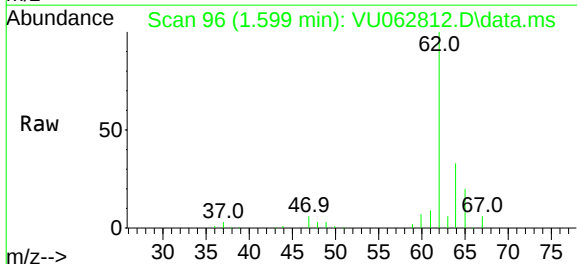
Quant Time: Jan 16 22:05:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR010225WMA.M
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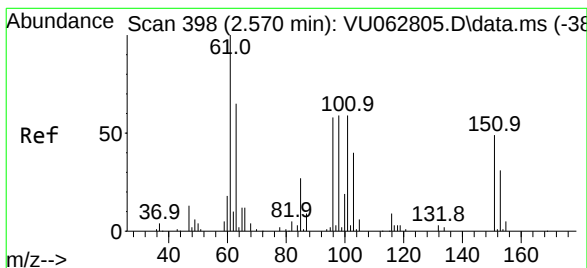
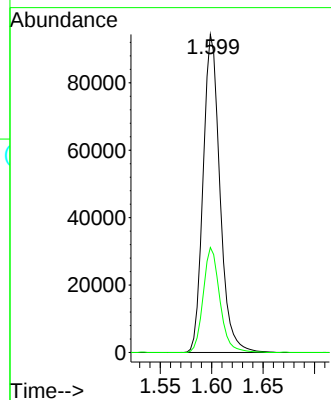
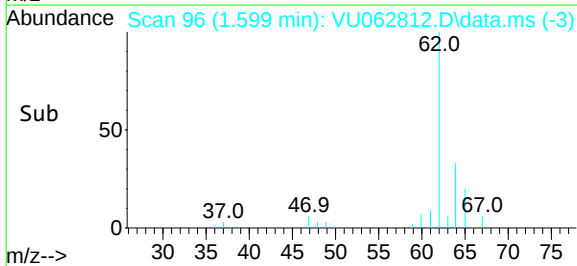


Vinyl chloride
 Concen: 15.414 ug/L
 RT: 1.599 min Scan# 96
 Delta R.T. 0.000 min
 Lab File: VU062812.D
 Acq: 16 Jan 2025 12:09

Instrument :
 MSVOA_U
 ClientSampleId :
 GCQA0DL

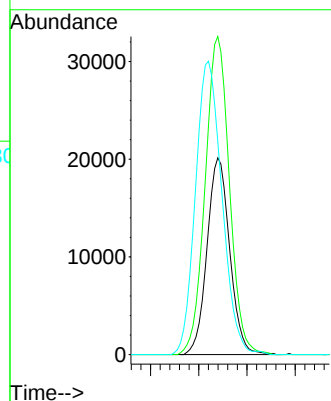
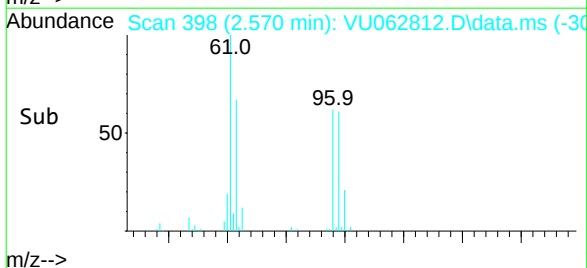
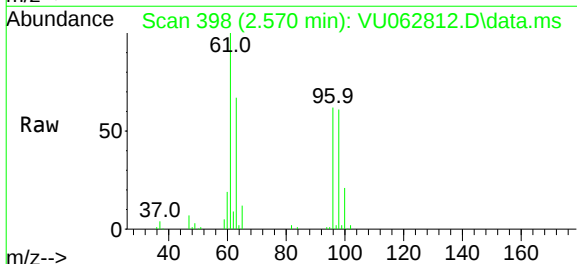


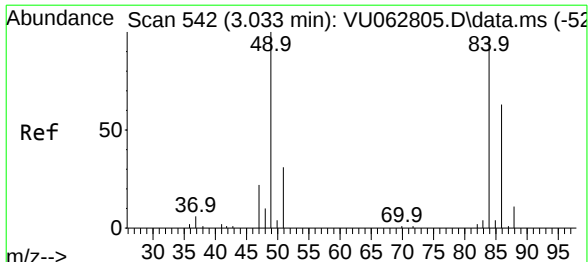
Tgt Ion: 62 Resp: 107346
 Ion Ratio Lower Upper
 62 100
 64 33.0 23.4 43.4



1,1-Dichloroethene
 Concen: 5.476 ug/L
 RT: 2.570 min Scan# 398
 Delta R.T. 0.000 min
 Lab File: VU062812.D
 Acq: 16 Jan 2025 12:09

Tgt Ion: 96 Resp: 32883
 Ion Ratio Lower Upper
 96 100
 61 161.6 120.4 223.6
 63 108.2 82.3 152.9

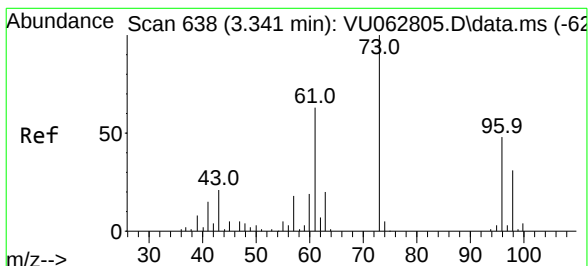
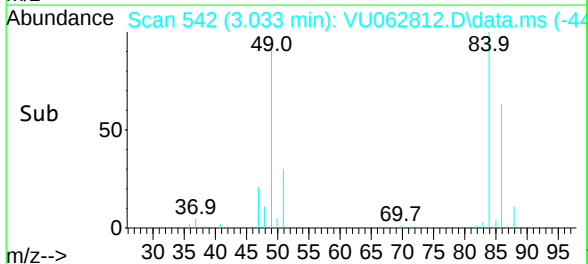
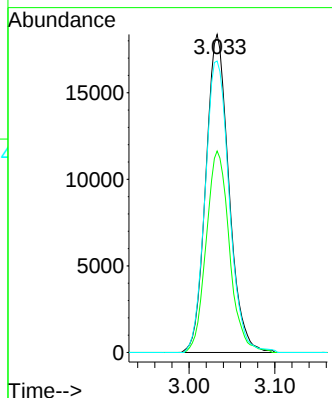
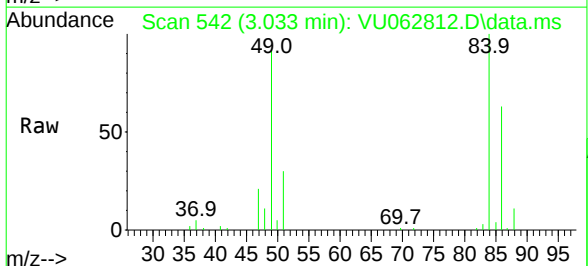




#16
Methylene chloride
Concen: 5.236 ug/L
RT: 3.033 min Scan# 541
Delta R.T. 0.000 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

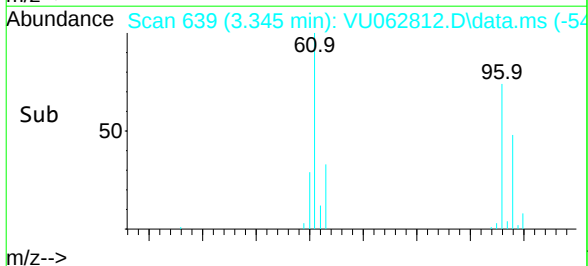
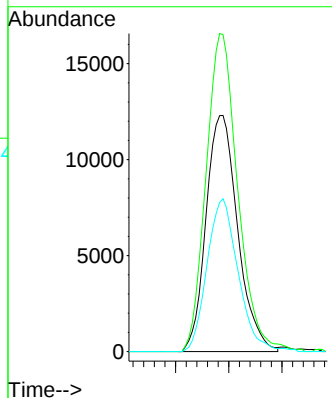
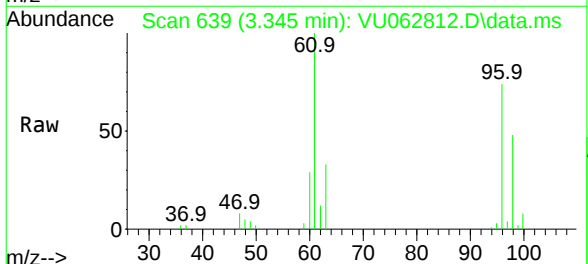
Instrument :
MSVOA_U
ClientSampleId :
GCQA0DL

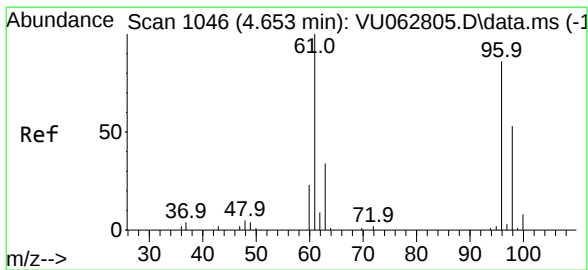
Tgt Ion:	84	Resp:	34445
Ion	Ratio	Lower	Upper
84	100		
86	63.3	44.7	83.1
49	91.6	68.3	126.9



#18
trans-1,2-Dichloroethene
Concen: 3.957 ug/L
RT: 3.345 min Scan# 639
Delta R.T. 0.003 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

Tgt Ion:	96	Resp:	25459
Ion	Ratio	Lower	Upper
96	100		
61	134.3	94.4	175.2
98	64.8	42.8	79.4

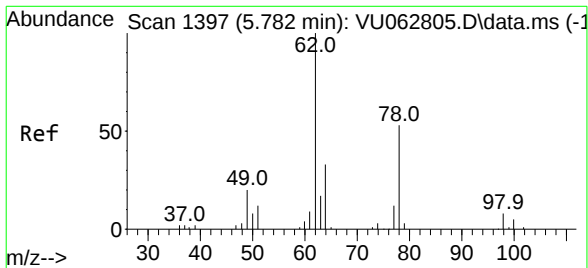
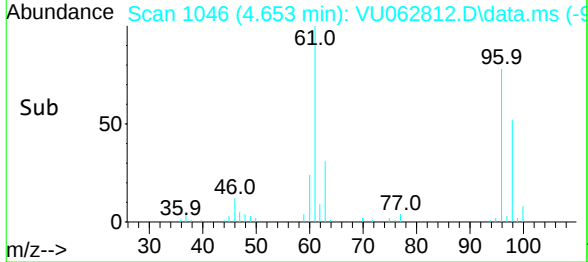
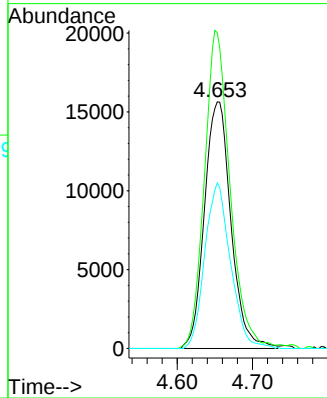
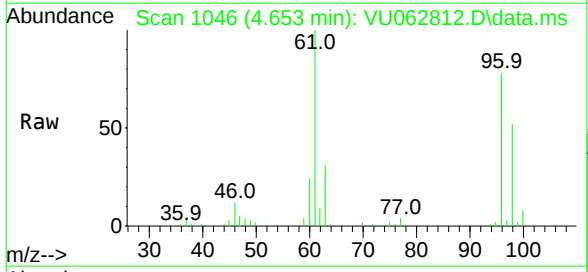




#22
 cis-1,2-Dichloroethene
 Concen: 5.465 ug/L
 RT: 4.653 min Scan# 1046
 Delta R.T. 0.000 min
 Lab File: VU062812.D
 Acq: 16 Jan 2025 12:09

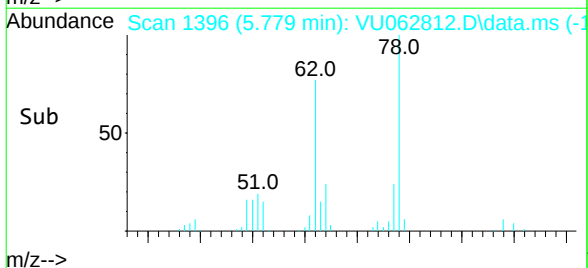
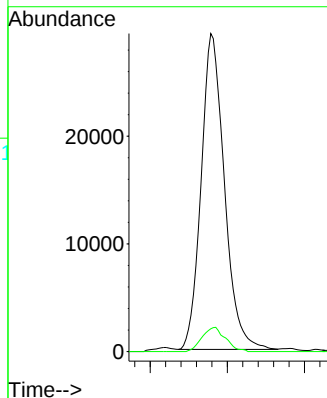
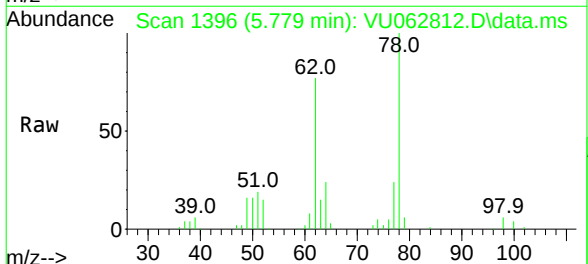
Instrument :
 MSVOA_U
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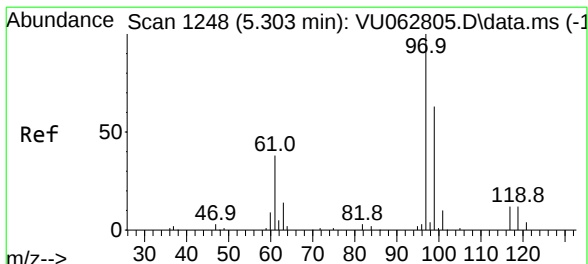
Tgt Ion:	96	Resp:	38289
Ion	Ratio	Lower	Upper
96	100		
61	128.1	84.8	157.6
98	67.1	43.1	80.1



#27
 1,2-Dichloroethane
 Concen: 6.636 ug/L
 RT: 5.779 min Scan# 1396
 Delta R.T. -0.003 min
 Lab File: VU062812.D
 Acq: 16 Jan 2025 12:09

Tgt Ion:	62	Resp:	61430
Ion	Ratio	Lower	Upper
62	100		
98	7.2	5.8	8.6

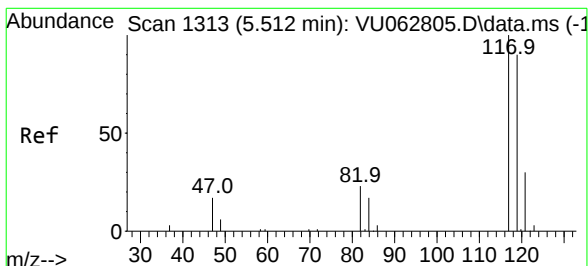
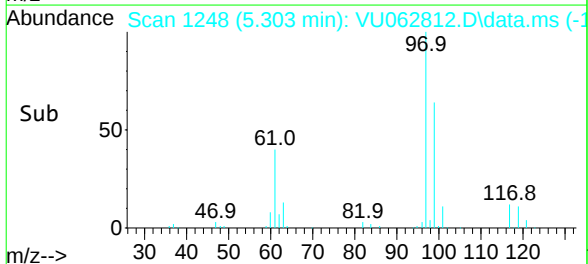
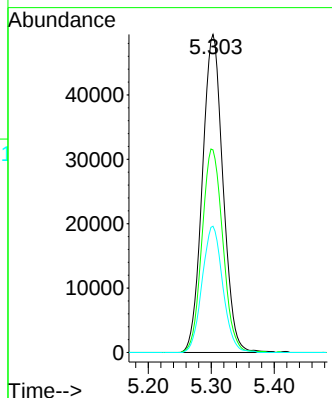
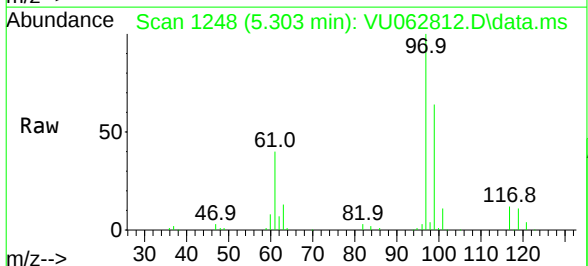




#29
 1,1,1-Trichloroethane
 Concen: 8.175 ug/L
 RT: 5.303 min Scan# 1212
 Delta R.T. 0.000 min
 Lab File: VU062812.D
 Acq: 16 Jan 2025 12:09

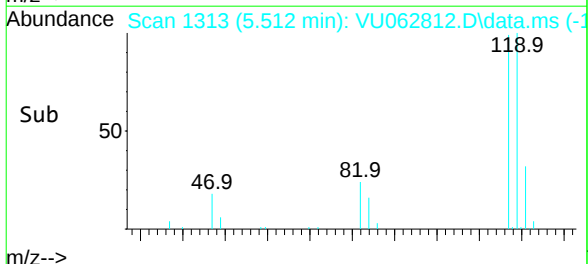
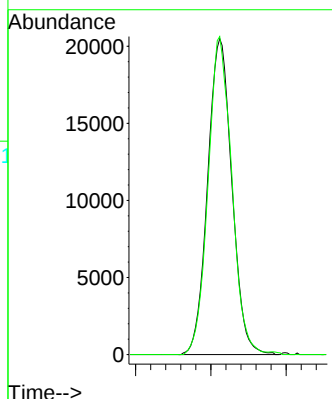
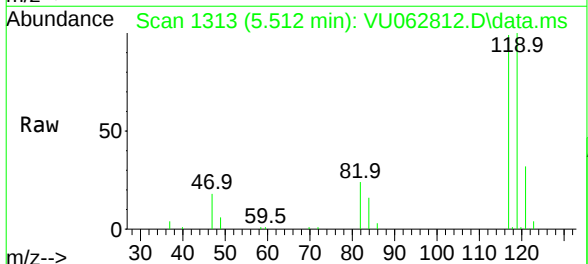
Instrument :
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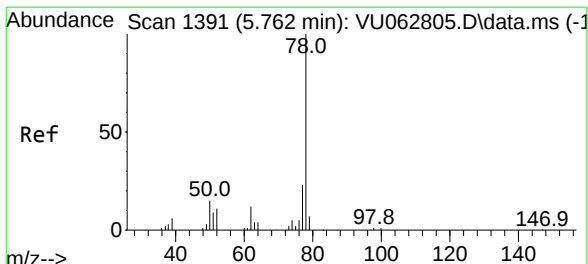
Tgt Ion:	97	Resp:	112393
Ion	Ratio	Lower	Upper
97	100		
99	64.6	52.4	78.6
61	39.8	32.2	48.4



#31
 Carbon tetrachloride
 Concen: 3.624 ug/L
 RT: 5.512 min Scan# 1313
 Delta R.T. 0.000 min
 Lab File: VU062812.D
 Acq: 16 Jan 2025 12:09

Tgt Ion:	117	Resp:	45785
Ion	Ratio	Lower	Upper
117	100		
119	98.3	78.6	118.0

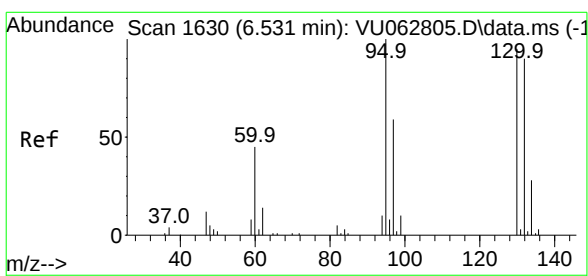
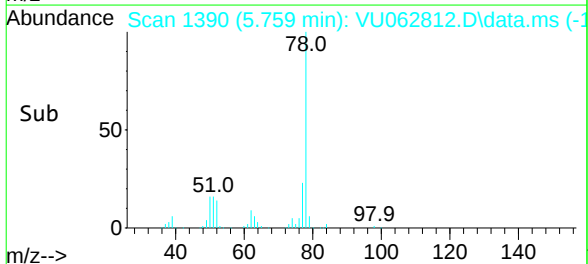
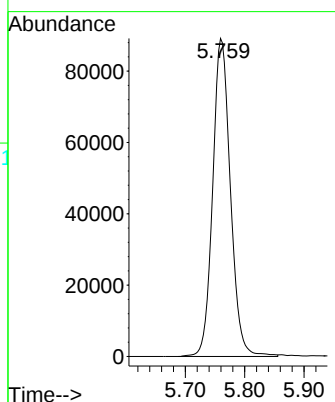
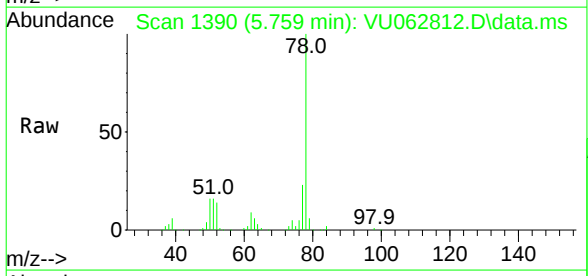




#33
Benzene
Concen: 7.106 ug/L
RT: 5.759 min Scan# 13
Delta R.T. -0.003 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

Instrument : MSVOA_U
ClientSampleId : GCQA0DL

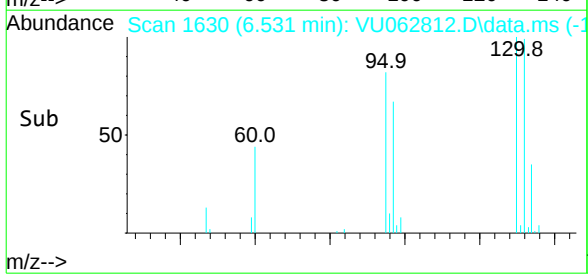
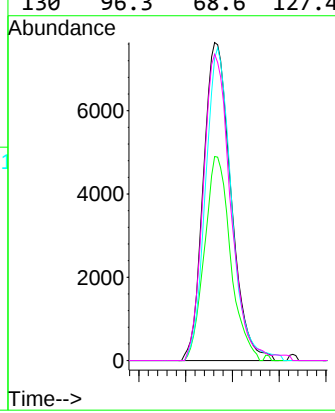
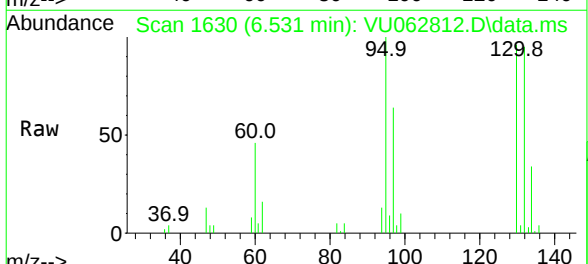
Tgt Ion: 78 Resp: 185040

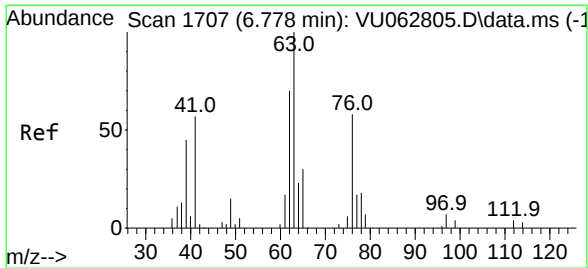


#34
Trichloroethene
Concen: 1.761 ug/L
RT: 6.531 min Scan# 1630
Delta R.T. 0.000 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

Tgt Ion: 95 Resp: 15663

Ion	Ratio	Lower	Upper
95	100		
97	64.2	47.5	88.3
132	95.0	66.9	124.3
130	96.3	68.6	127.4

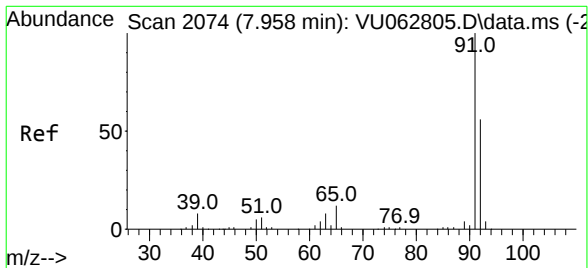
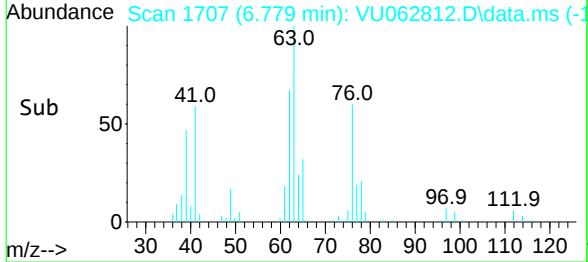
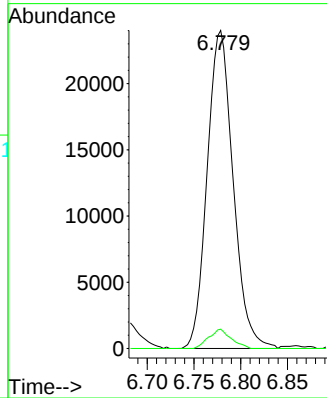
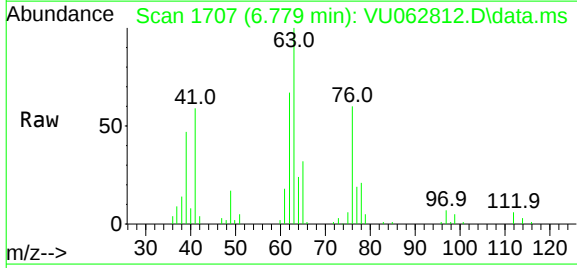




#37
1,2-Dichloropropane
Concen: 7.541 ug/L
RT: 6.779 min Scan# 1707
Delta R.T. 0.000 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

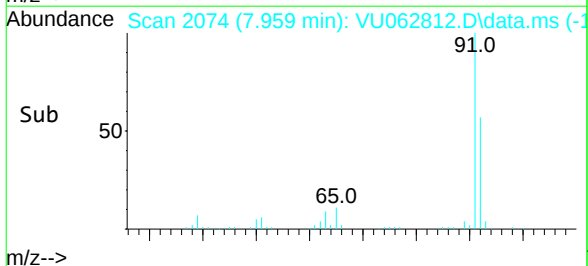
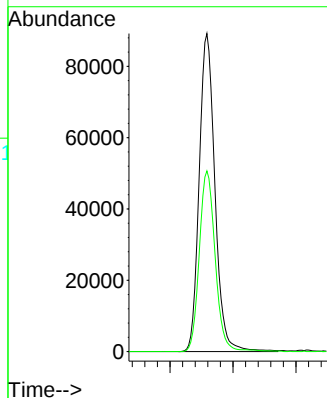
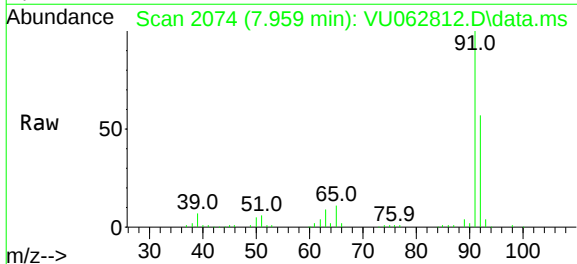
Instrument :
MSVOA_U
ClientSampleId :
GCQA0DL

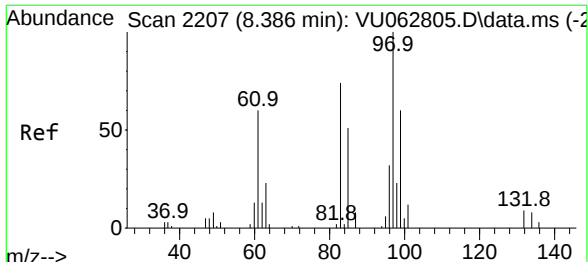
Tgt Ion: 63 Resp: 46328
Ion Ratio Lower Upper
63 100
112 5.2 3.8 5.8



#42
Toluene
Concen: 5.424 ug/L
RT: 7.959 min Scan# 2074
Delta R.T. 0.000 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

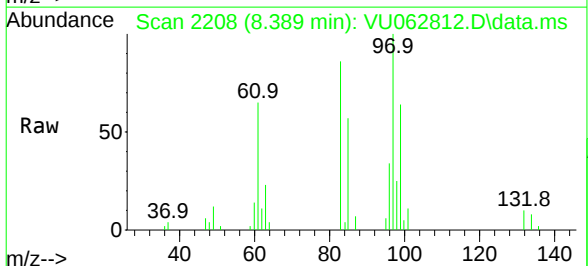
Tgt Ion: 91 Resp: 154784
Ion Ratio Lower Upper
91 100
92 56.8 40.4 75.0



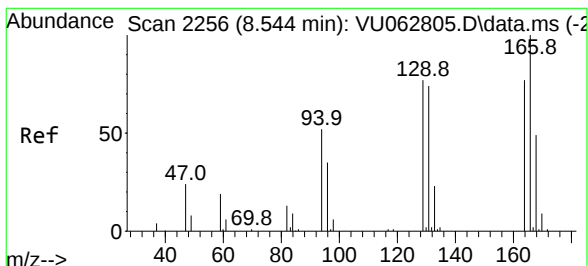
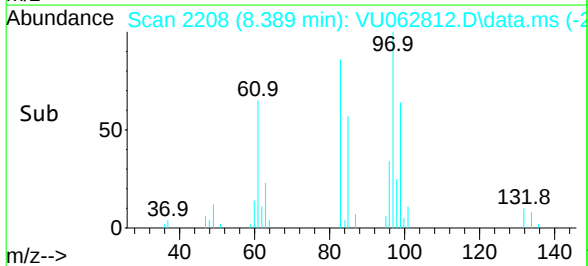
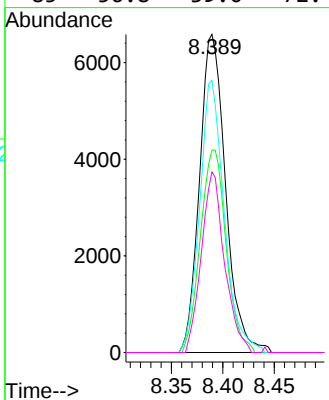


#45
 1,1,2-Trichloroethane
 Concen: 2.323 ug/L
 RT: 8.389 min Scan# 2207
 Delta R.T. 0.003 min
 Lab File: VU062812.D
 Acq: 16 Jan 2025 12:09

Instrument :
 MSVOA_U
 ClientSampleId :
 GCQA0DL

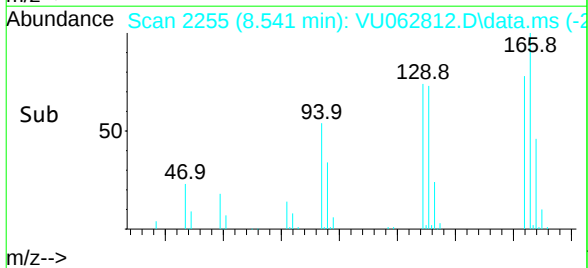
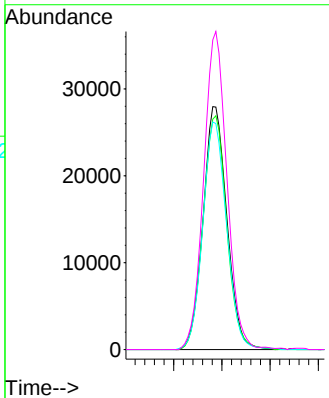
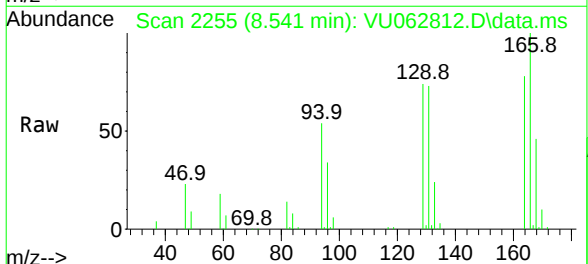


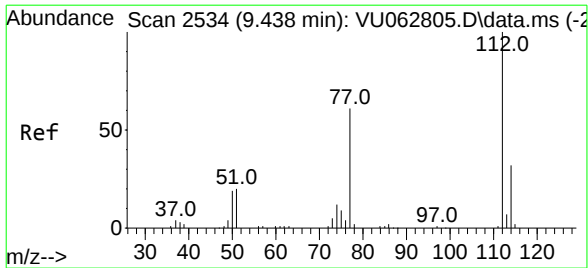
Tgt Ion:	97	Resp:	11589
Ion	Ratio	Lower	Upper
97	100		
99	63.7	45.6	84.6
83	85.5	63.0	117.0
85	56.8	39.0	72.4



#47
 Tetrachloroethene
 Concen: 7.852 ug/L
 RT: 8.541 min Scan# 2255
 Delta R.T. -0.003 min
 Lab File: VU062812.D
 Acq: 16 Jan 2025 12:09

Tgt Ion:	164	Resp:	48110
Ion	Ratio	Lower	Upper
164	100		
129	94.8	71.0	131.9
131	93.7	69.4	129.0
166	127.5	92.7	172.3

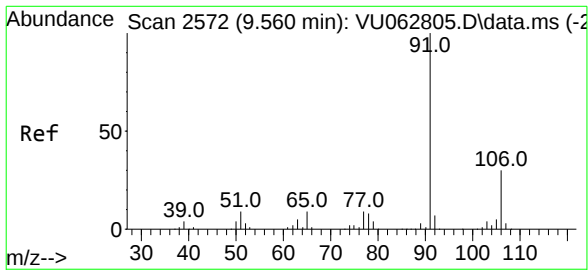
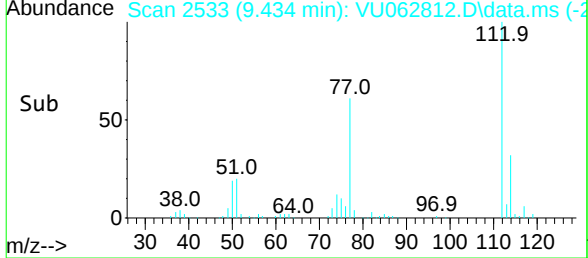
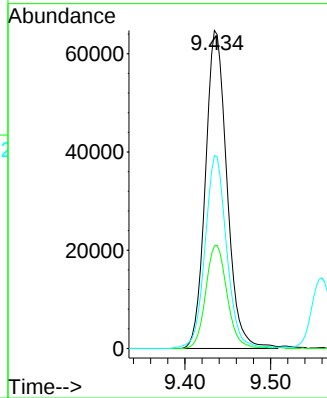
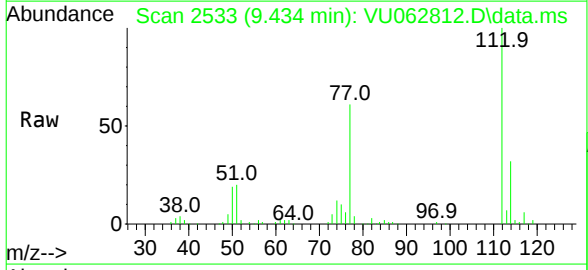




#51
Chlorobenzene
Concen: 6.052 ug/L
RT: 9.434 min Scan# 2534
Delta R.T. -0.003 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

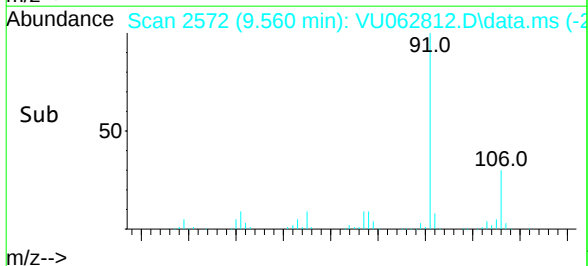
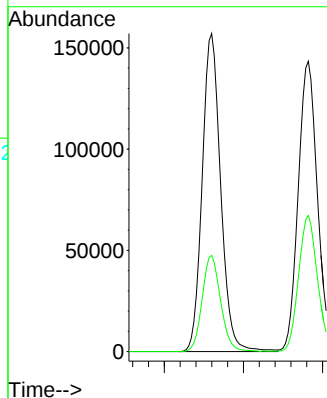
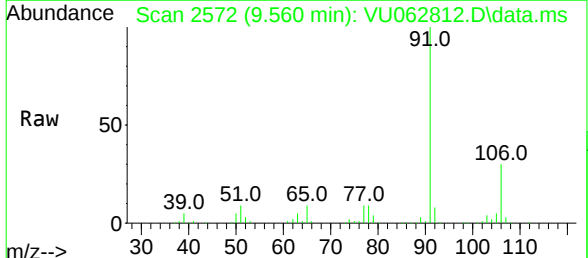
Instrument :
MSVOA_U
ClientSampleId :
GCQA0DL

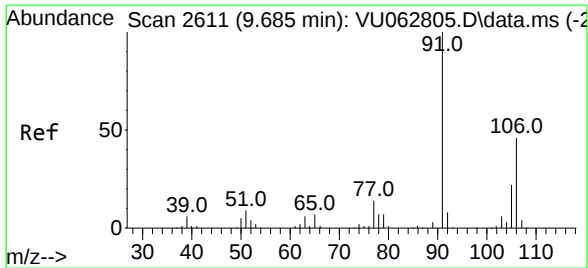
Tgt Ion:	112	Resp:	112943
Ion	Ratio	Lower	Upper
112	100		
114	32.3	21.7	40.3
77	60.7	48.6	73.0



#52
Ethylbenzene
Concen: 7.867 ug/L
RT: 9.560 min Scan# 2572
Delta R.T. 0.000 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

Tgt Ion:	91	Resp:	254753
Ion	Ratio	Lower	Upper
91	100		
106	30.2	21.9	40.7

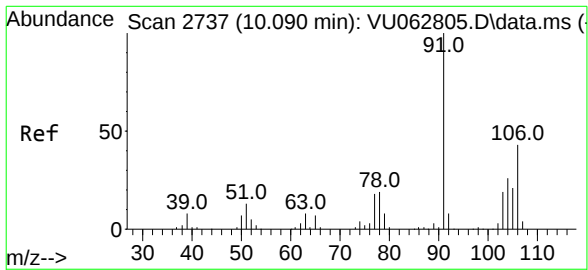
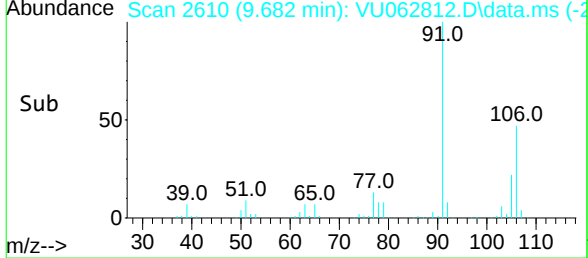
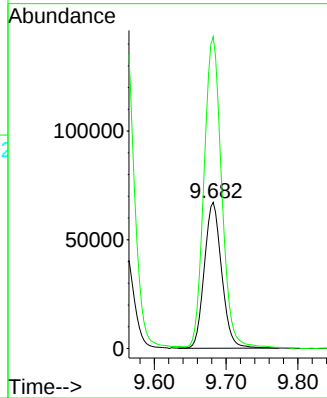
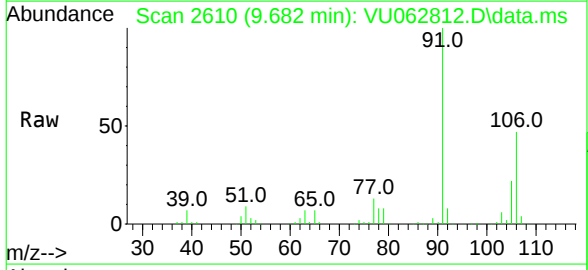




#53
m,p-Xylene
Concen: 9.297 ug/L
RT: 9.682 min Scan# 2611
Delta R.T. -0.003 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

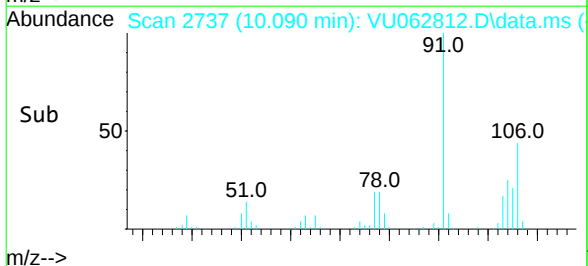
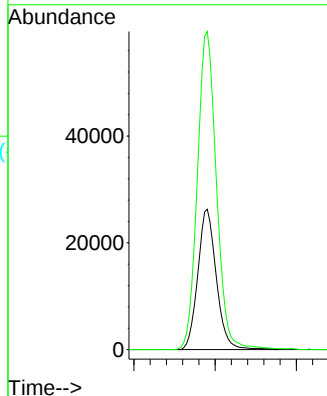
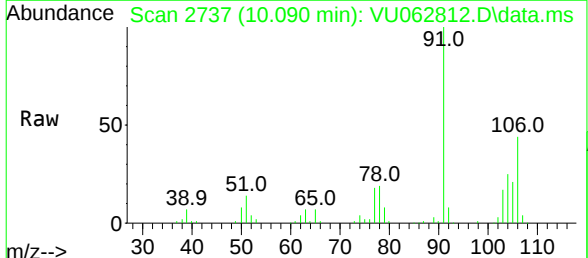
Instrument :
MSVOA_U
ClientSampleId :
GCQA0DL

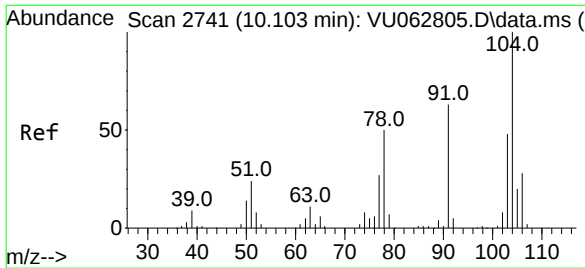
Tgt Ion:106 Resp: 112598
Ion Ratio Lower Upper
106 100
91 213.3 153.1 284.3



#54
o-Xylene
Concen: 3.589 ug/L
RT: 10.090 min Scan# 2737
Delta R.T. 0.000 min
Lab File: VU062812.D
Acq: 16 Jan 2025 12:09

Tgt Ion:106 Resp: 41637
Ion Ratio Lower Upper
106 100
91 226.6 160.4 297.8





#55

Styrene

Concen: 3.474 ug/L

RT: 10.106 min Scan# 27

Delta R.T. 0.003 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Instrument :

MSVOA_U

ClientSampleId :

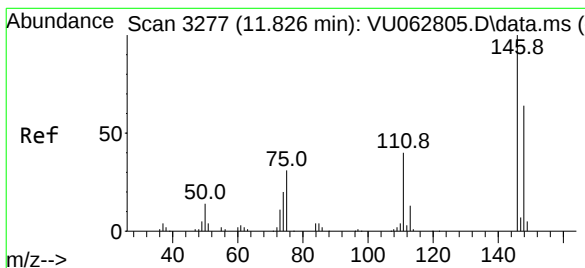
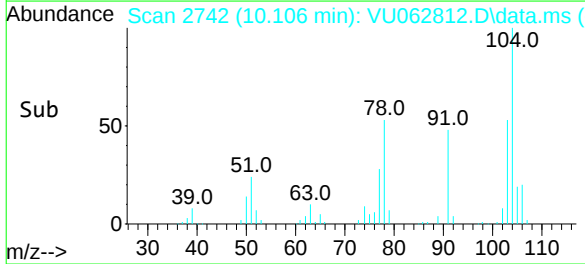
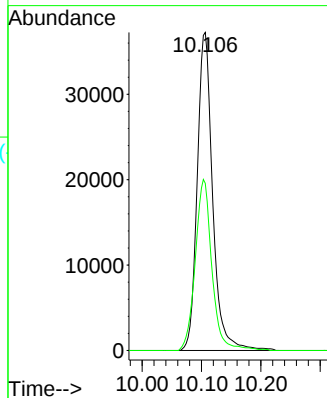
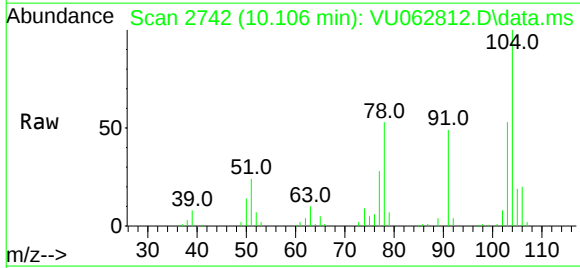
GCQA0DL

Tgt Ion:104 Resp: 67402

Ion Ratio Lower Upper

104 100

78 52.6 35.5 65.9



#65

1,4-Dichlorobenzene

Concen: 4.972 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. 0.000 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

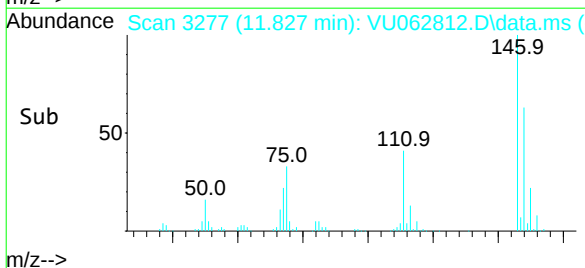
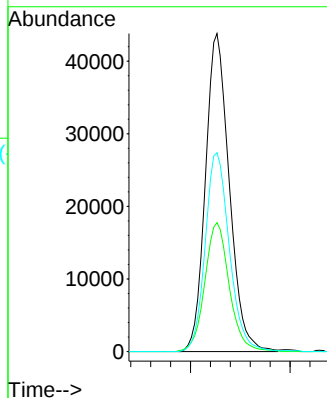
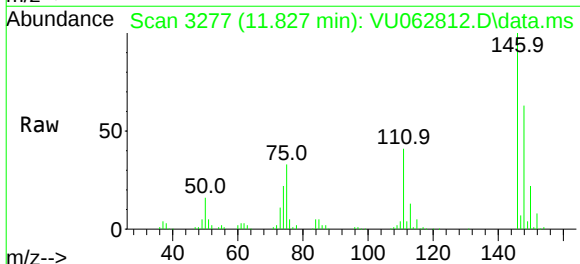
Tgt Ion:146 Resp: 72880

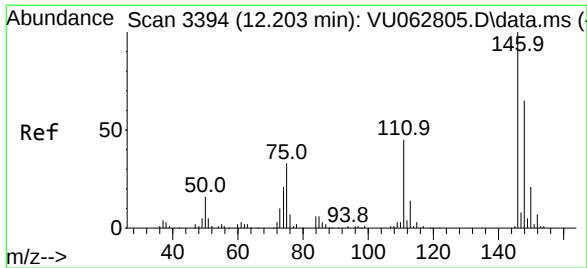
Ion Ratio Lower Upper

146 100

111 40.5 29.5 54.9

148 62.5 45.1 83.9





#67

1,2-Dichlorobenzene

Concen: 6.900 ug/L

RT: 12.203 min Scan# 3394

Delta R.T. 0.000 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Instrument :

MSVOA_U

ClientSampleId :

GCQA0DL

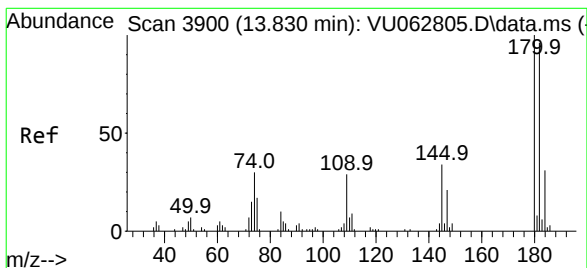
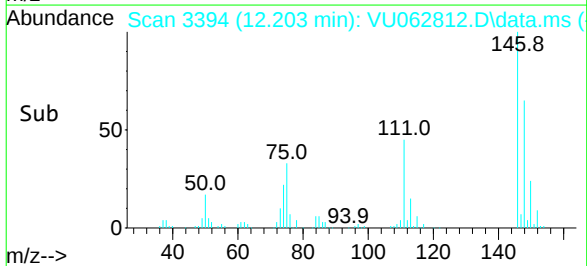
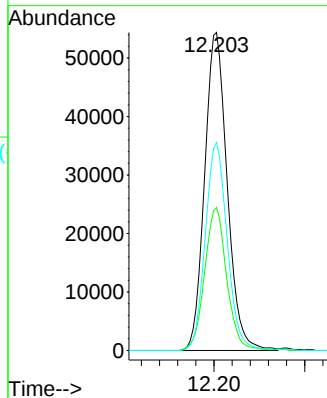
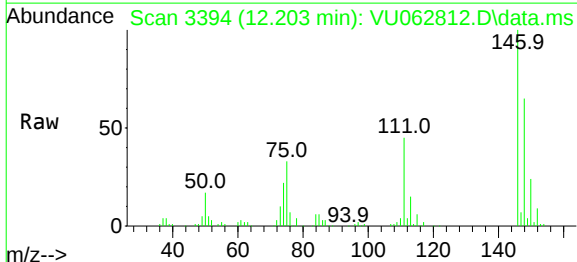
Tgt Ion:146 Resp: 94011

Ion Ratio Lower Upper

146 100

111 45.0 36.3 54.5

148 65.4 52.0 78.0



#70

1,2,4-trichlorobenzene

Concen: 7.619 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. 0.003 min

Lab File: VU062812.D

Acq: 16 Jan 2025 12:09

Tgt Ion:180 Resp: 67182

Ion Ratio Lower Upper

180 100

182 97.5 77.1 115.7

145 33.7 26.9 40.3

