

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU032824\
 Data File : VU058236.D
 Acq On : 28 Mar 2024 13:51
 Operator : MD/SY
 Sample : P1902-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 DCOB0

Quant Time: Mar 29 01:09:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR032124WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Mar 29 01:09:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	71934	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	69365	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	32054	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.596	65	23235	3.822	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	76.400%
7) Chloroethane-d5	1.907	69	21872	4.408	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	88.200%
11) 1,1-Dichloroethene-d2	2.563	65	9896	3.921	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	78.400%
20) 2-Butanone-d5	4.624	46	52611	48.716	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.440%
24) Chloroform-d	5.055	84	46884	4.314	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.200%
26) 1,2-Dichloroethane-d4	5.695	65	22805	4.488	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.800%
32) Benzene-d6	5.721	84	91510	4.062	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.200%
36) 1,2-Dichloropropane-d6	6.685	67	29250	4.405	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.200%
41) Toluene-d8	7.894	98	75899	3.803	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	76.000%
43) trans-1,3-Dichloroprop...	8.177	79	8689	4.084	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.600%
46) 2-Hexanone-d5	8.627	63	39229	45.529	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.060%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	19695	4.553	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.000%
66) 1,2-Dichlorobenzene-d4	12.187	152	26445	4.430	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.600%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.599	62	19957	4.839	ug/L	98
12) 1,1-Dichloroethene	2.576	96	79535	22.055	ug/L #	64
16) Methylene chloride	3.036	84	73665	14.415	ug/L	99
18) trans-1,2-Dichloroethene	3.345	96	96873	25.703	ug/L	98
22) cis-1,2-Dichloroethene	4.660	96	18554	3.984	ug/L	96
27) 1,2-Dichloroethane	5.785	62	70185	13.921	ug/L	99
29) 1,1,1-Trichloroethane	5.309	97	28358	3.954	ug/L	97
31) Carbon tetrachloride	5.518	117	21293	3.488	ug/L	96
33) Benzene	5.766	78	138111	7.581	ug/L	100
34) Trichloroethene	6.538	95	19167	4.038	ug/L	97
37) 1,2-Dichloropropane	6.785	63	19377	3.807	ug/L #	95
42) Toluene	7.962	91	198676	10.321	ug/L	98
45) 1,1,2-Trichloroethane	8.393	97	41042	12.803	ug/L	97
47) Tetrachloroethene	8.547	164	69661	21.912	ug/L	98
51) Chlorobenzene	9.441	112	172009	13.869	ug/L	100
52) Ethylbenzene	9.563	91	96720	4.500	ug/L	98
53) m,p-Xylene	9.685	106	190793	24.913	ug/L	96
54) o-Xylene	10.094	106	55487	7.177	ug/L	100
55) Styrene	10.110	104	196064	16.062	ug/L	93

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Fri Mar 29 01:09:13 2024
Response via : Initial Calibration

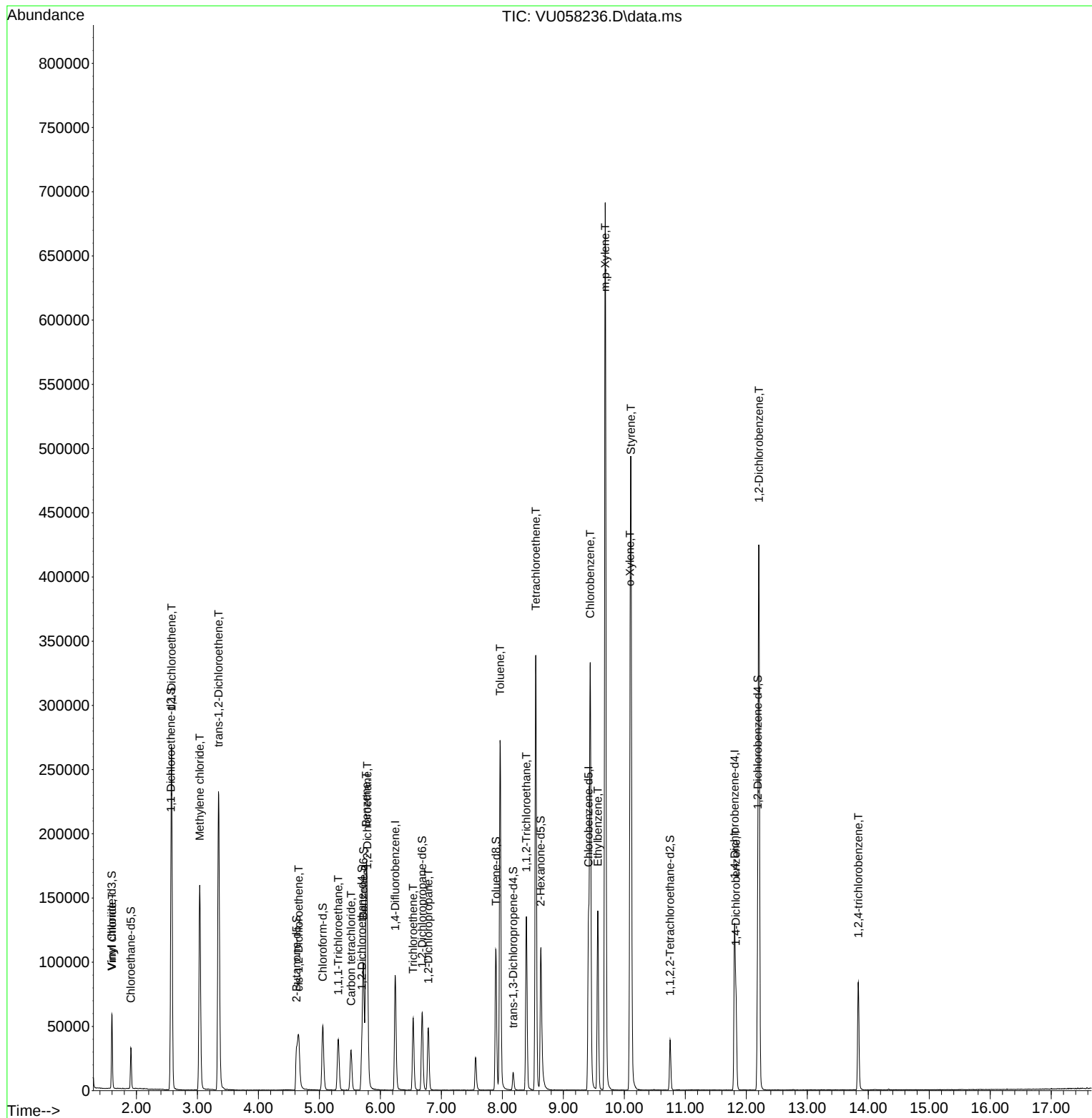
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.830	146	25364	2.926	ug/L	99
67) 1,2-Dichlorobenzene	12.206	146	155803	18.786	ug/L	97
70) 1,2,4-trichlorobenzene	13.836	180	25551	5.463	ug/L	97

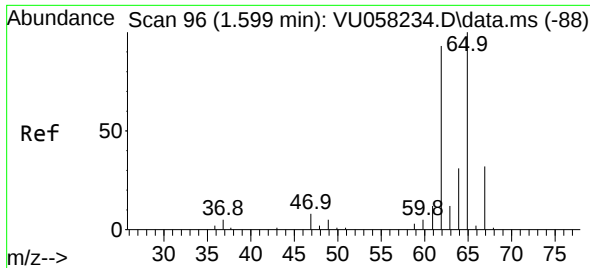
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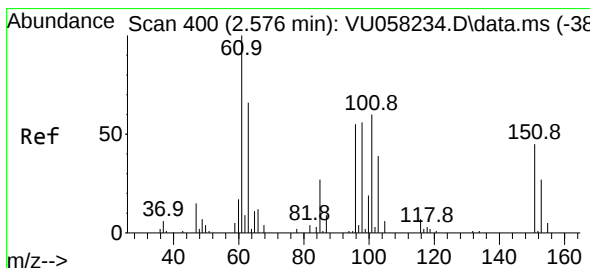
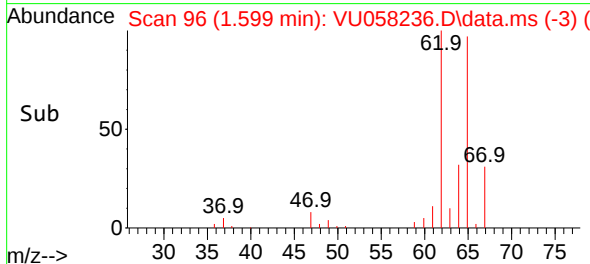
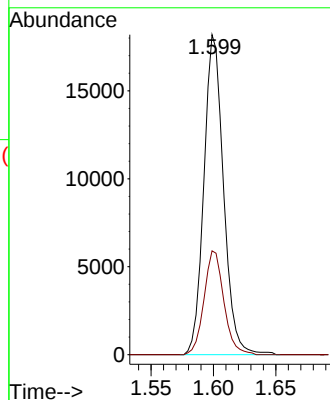
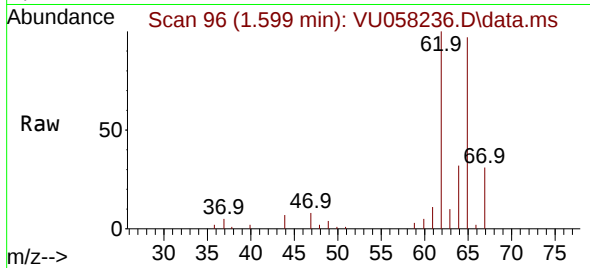




#5
Vinyl chloride
Concen: 4.839 ug/L
RT: 1.599 min Scan# 90
Delta R.T. 0.000 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

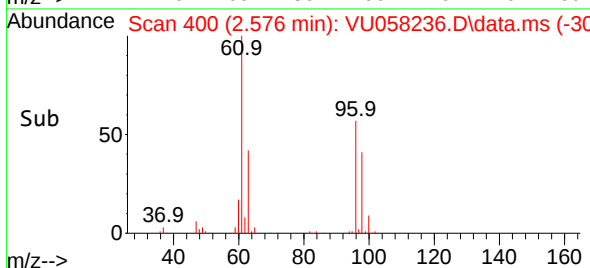
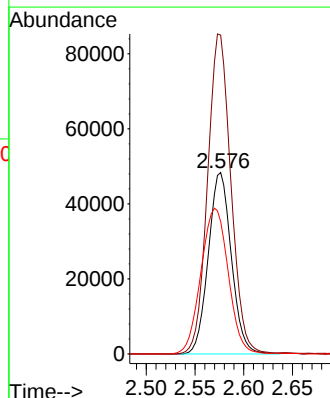
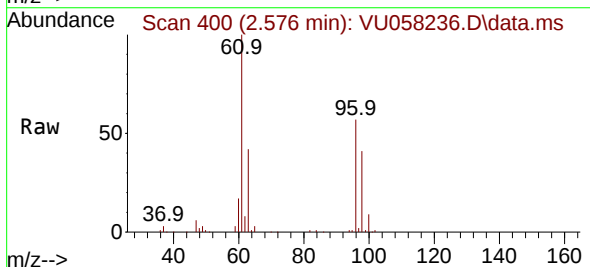
Instrument :
MSVOA_U
ClientSampleId :
DCOB0

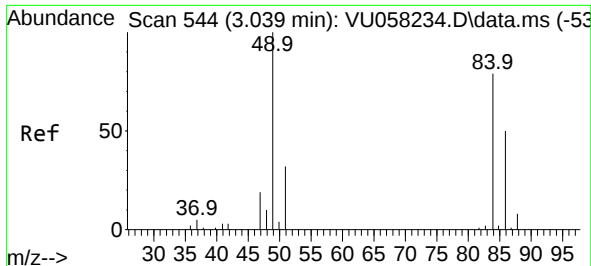
Tgt Ion: 62 Resp: 19957
Ion Ratio Lower Upper
62 100
64 32.5 23.4 43.6



#12
1,1-Dichloroethene
Concen: 22.055 ug/L
RT: 2.576 min Scan# 400
Delta R.T. 0.000 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

Tgt Ion: 96 Resp: 79535
Ion Ratio Lower Upper
96 100
61 175.7 128.1 237.9
63 73.0 116.8 217.0#

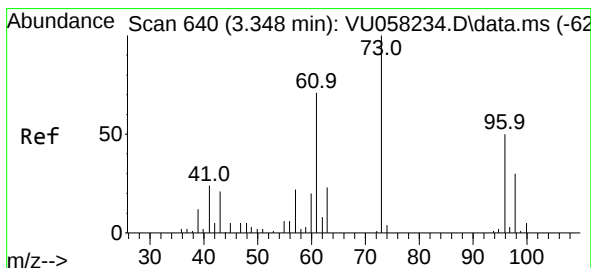
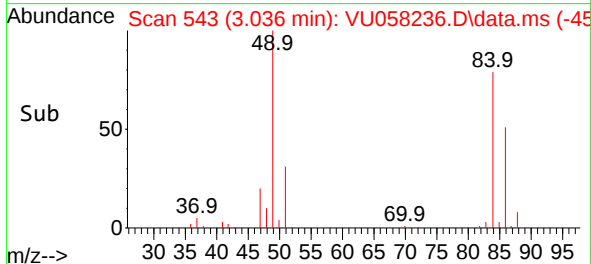
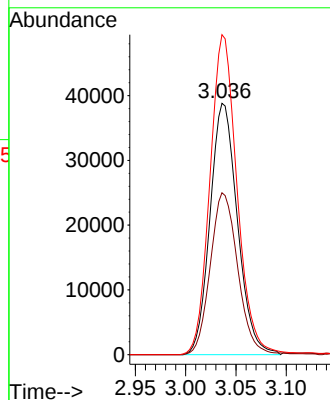
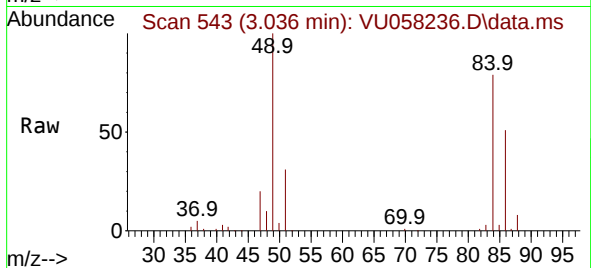




#16
Methylene chloride
Concen: 14.415 ug/L
RT: 3.036 min Scan# 54
Delta R.T. -0.003 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

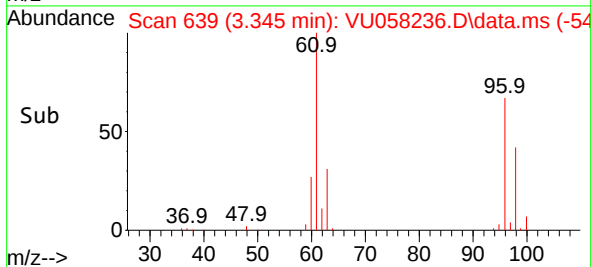
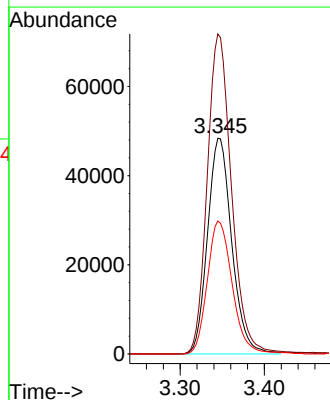
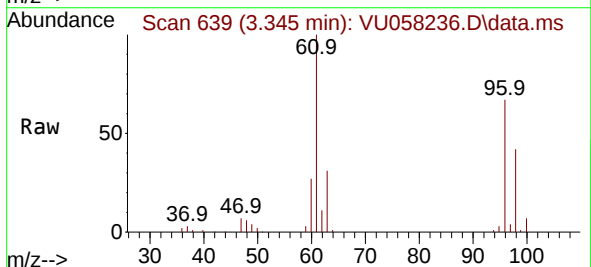
Instrument :
MSVOA_U
ClientSampleId :
DCOB0

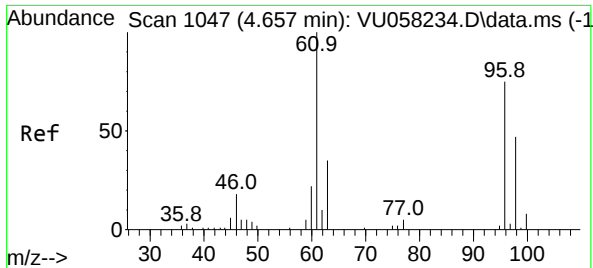
Tgt Ion: 84 Resp: 73665
Ion Ratio Lower Upper
84 100
86 64.4 45.6 84.6
49 127.3 88.3 163.9



#18
trans-1,2-Dichloroethene
Concen: 25.703 ug/L
RT: 3.345 min Scan# 639
Delta R.T. -0.003 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

Tgt Ion: 96 Resp: 96873
Ion Ratio Lower Upper
96 100
61 148.4 102.5 190.3
98 61.7 44.0 81.8

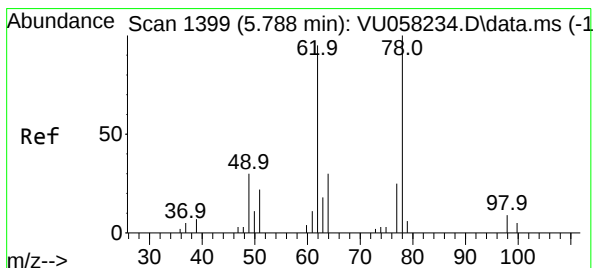
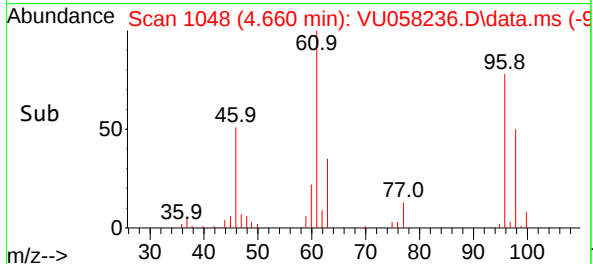
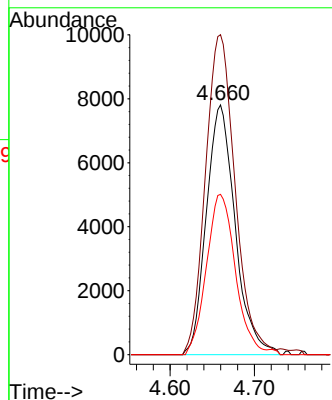
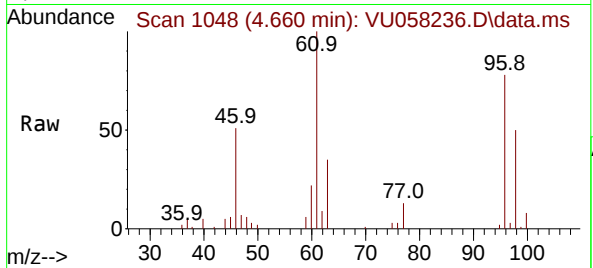




#22
 cis-1,2-Dichloroethene
 Concen: 3.984 ug/L
 RT: 4.660 min Scan# 1047
 Delta R.T. 0.003 min
 Lab File: VU058236.D
 Acq: 28 Mar 2024 13:51

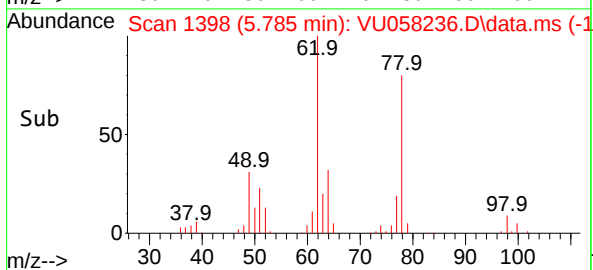
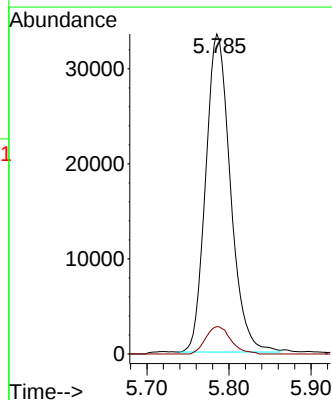
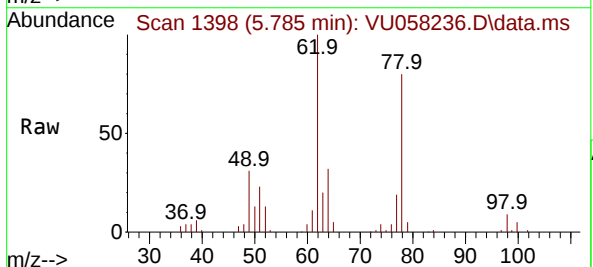
Instrument :
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 ClientSampleId :
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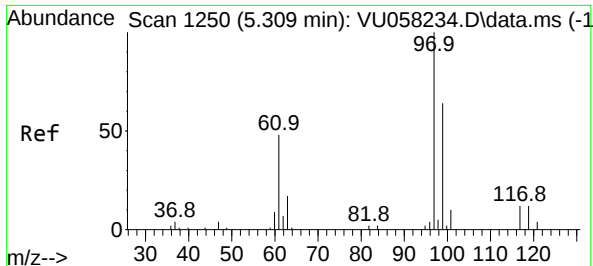
Tgt Ion: 96 Resp: 18554
 Ion Ratio Lower Upper
 96 100
 61 128.2 92.8 172.4
 98 64.2 43.2 80.2



#27
 1,2-Dichloroethane
 Concen: 13.921 ug/L
 RT: 5.785 min Scan# 1398
 Delta R.T. -0.003 min
 Lab File: VU058236.D
 Acq: 28 Mar 2024 13:51

Tgt Ion: 62 Resp: 70185
 Ion Ratio Lower Upper
 62 100
 98 8.6 6.6 10.0





#29

1,1,1-Trichloroethane

Concen: 3.954 ug/L

RT: 5.309 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU058236.D

Acq: 28 Mar 2024 13:51

Instrument :

MSVOA_U

ClientSampleId :

DCOB0

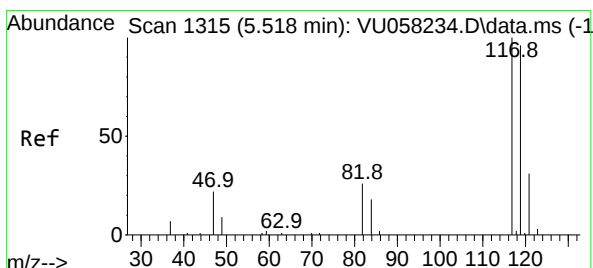
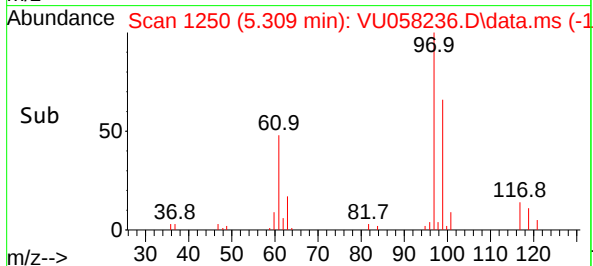
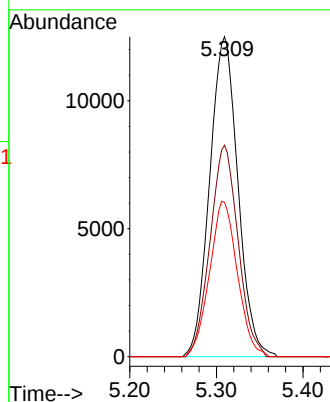
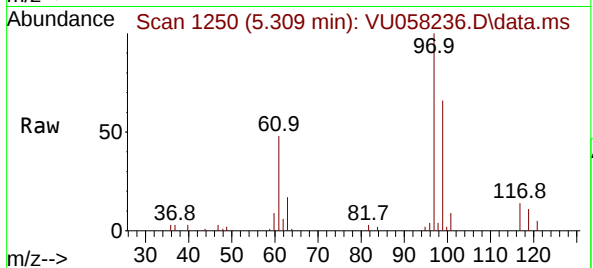
Tgt Ion: 97 Resp: 28358

Ion Ratio Lower Upper

97 100

99 65.5 50.5 75.7

61 47.9 36.3 54.5



#31

Carbon tetrachloride

Concen: 3.488 ug/L

RT: 5.518 min Scan# 1315

Delta R.T. 0.000 min

Lab File: VU058236.D

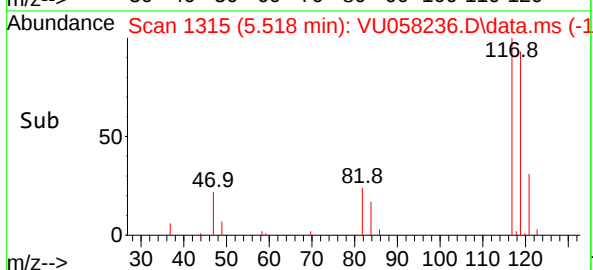
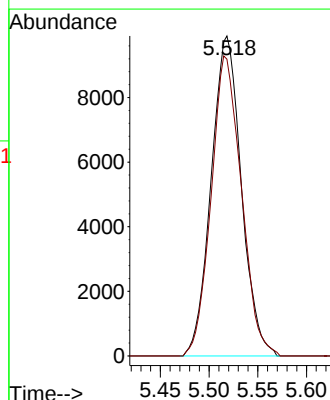
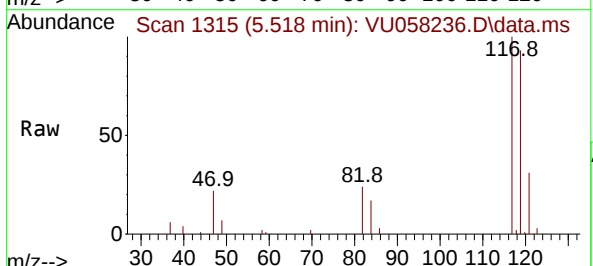
Acq: 28 Mar 2024 13:51

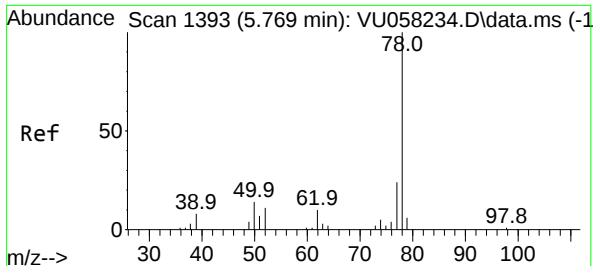
Tgt Ion: 117 Resp: 21293

Ion Ratio Lower Upper

117 100

119 94.1 78.1 117.1

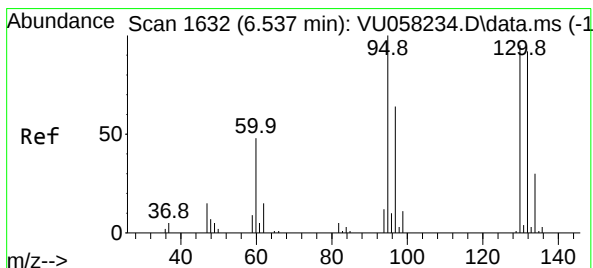
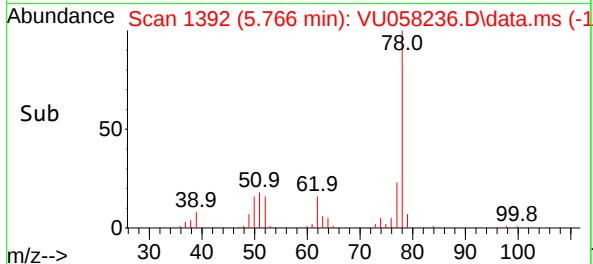
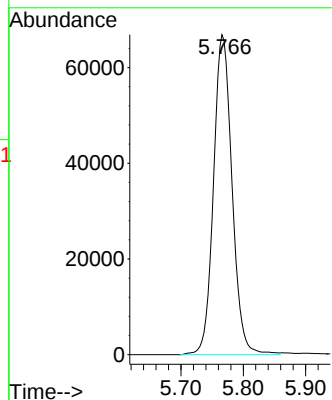
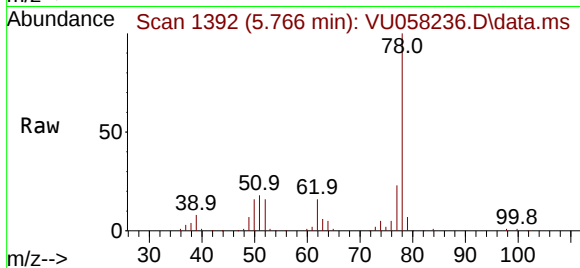




#33
Benzene
Concen: 7.581 ug/L
RT: 5.766 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

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ClientSampleId :
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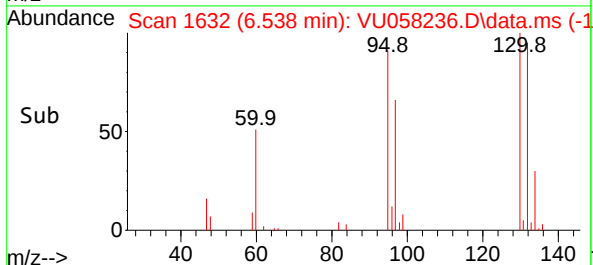
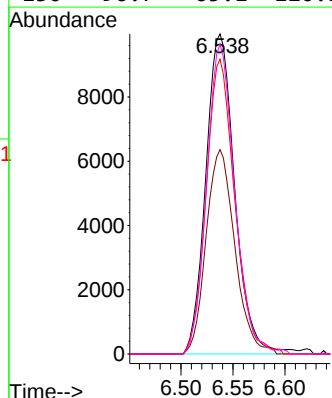
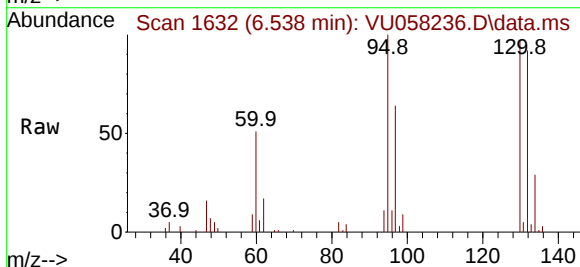
Tgt Ion: 78 Resp: 138111

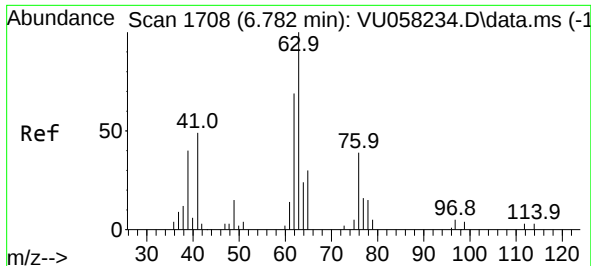


#34
Trichloroethene
Concen: 4.038 ug/L
RT: 6.538 min Scan# 1632
Delta R.T. 0.000 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

Tgt Ion: 95 Resp: 19167

Ion	Ratio	Lower	Upper
95	100		
97	63.9	47.7	88.7
132	92.1	63.6	118.2
130	96.7	65.1	120.9





#37

1,2-Dichloropropane

Concen: 3.807 ug/L

RT: 6.785 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU058236.D

Acq: 28 Mar 2024 13:51

Instrument :

MSVOA_U

ClientSampleId :

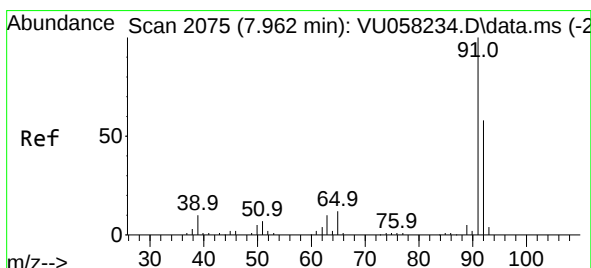
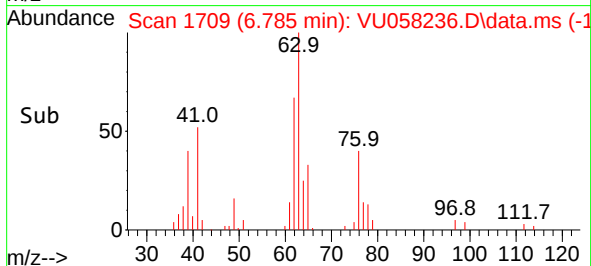
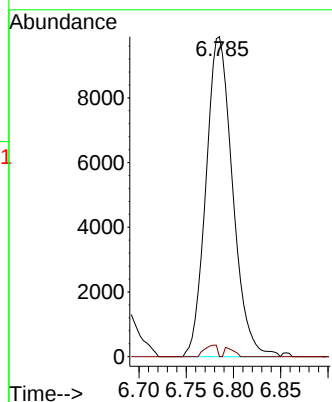
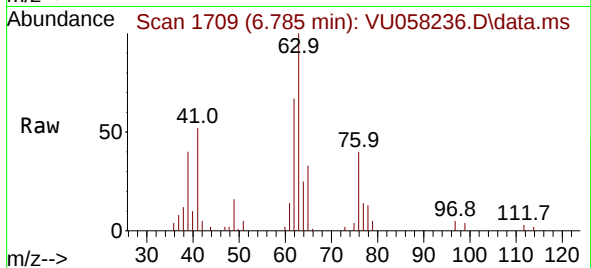
DCOB0

Tgt Ion: 63 Resp: 19377

Ion Ratio Lower Upper

63 100

112 1.7 2.7 4.1#



#42

Toluene

Concen: 10.321 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. 0.000 min

Lab File: VU058236.D

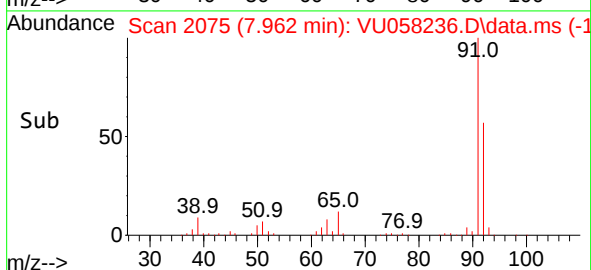
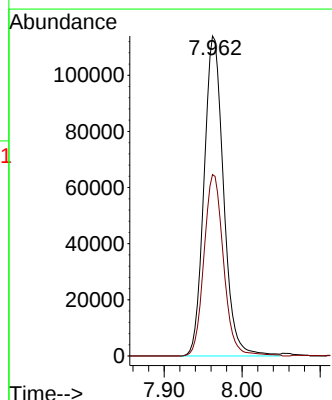
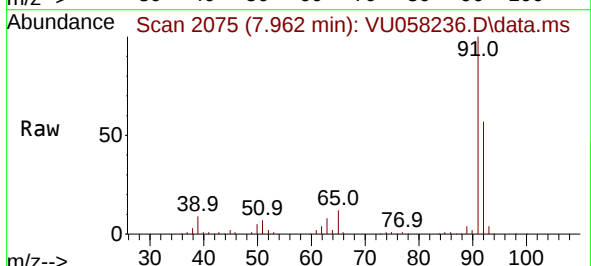
Acq: 28 Mar 2024 13:51

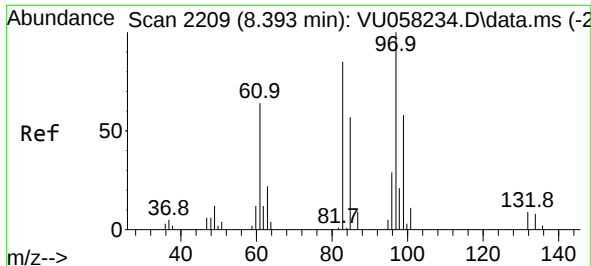
Tgt Ion: 91 Resp: 198676

Ion Ratio Lower Upper

91 100

92 56.7 40.7 75.5

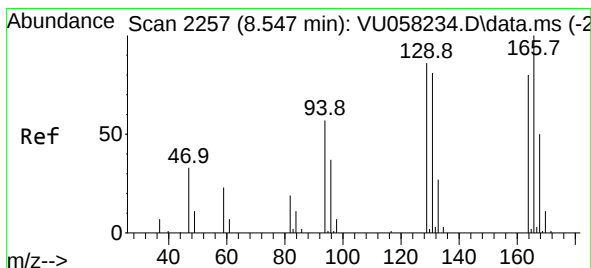
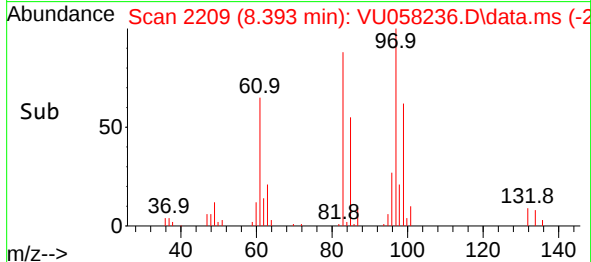
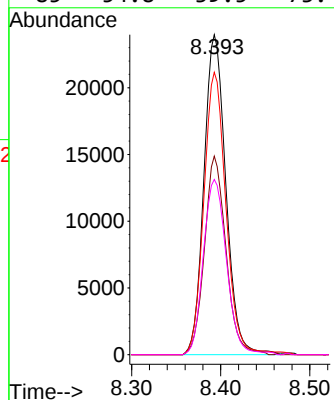
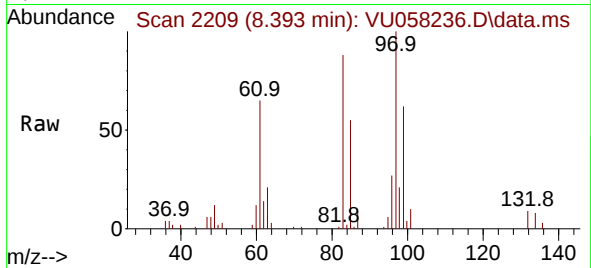




#45
1,1,2-Trichloroethane
Concen: 12.803 ug/L
RT: 8.393 min Scan# 2209
Delta R.T. 0.000 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

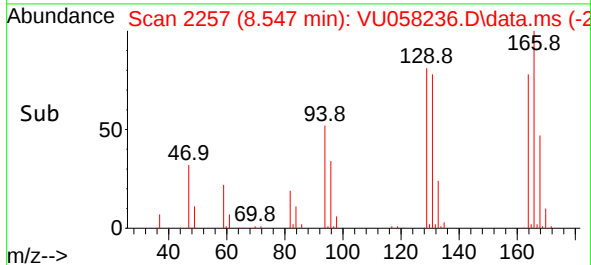
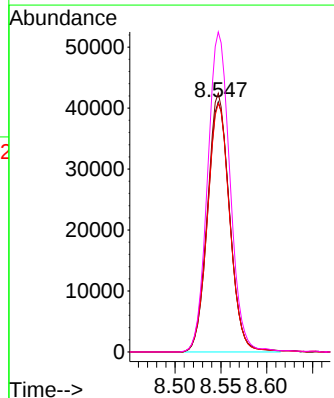
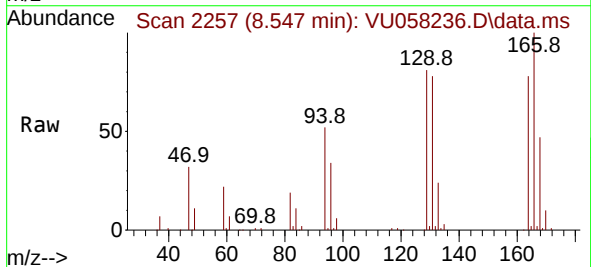
Instrument :
MSVOA_U
ClientSampleId :
DCOB0

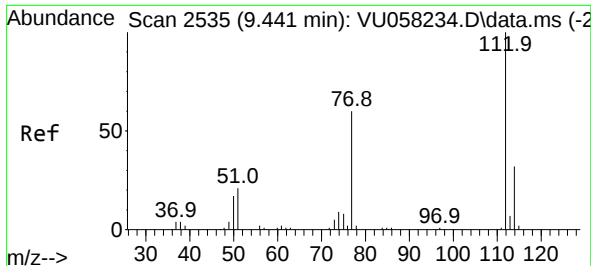
Tgt Ion: 97	Resp: 41042
Ion Ratio	Lower Upper
97 100	
99 62.0	44.5 82.7
83 88.3	64.1 119.1
85 54.8	39.5 73.4



#47
Tetrachloroethene
Concen: 21.912 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. 0.000 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

Tgt	Ion:164	Resp:	69661
Ion	Ratio	Lower	Upper
164	100		
129	103.4	71.3	132.3
131	99.4	70.8	131.4
166	127.9	90.9	168.9

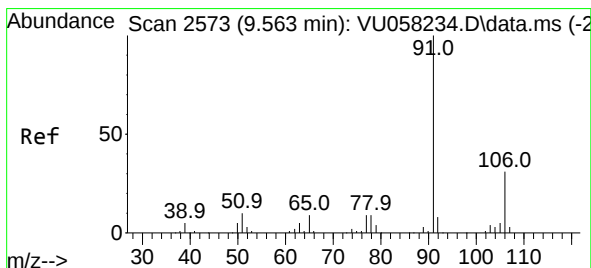
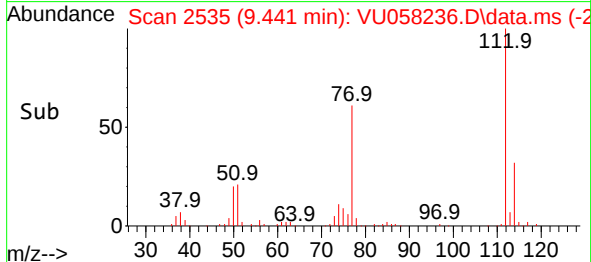
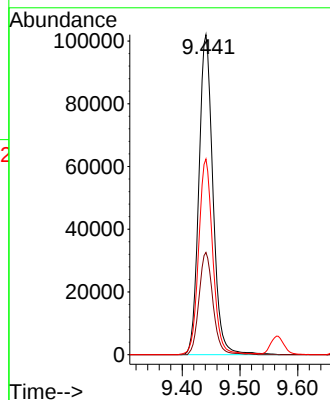
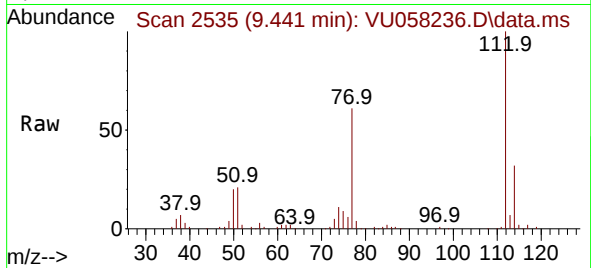




#51
Chlorobenzene
Concen: 13.869 ug/L
RT: 9.441 min Scan# 2535
Delta R.T. 0.000 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

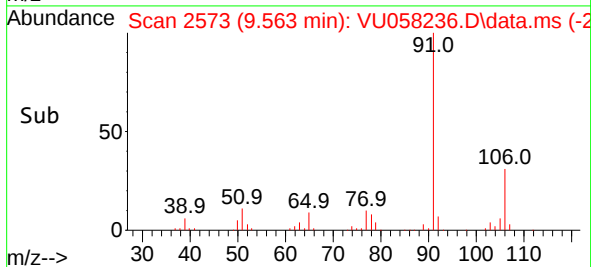
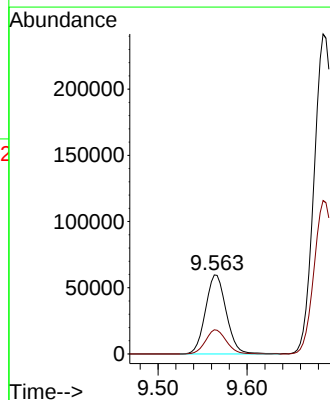
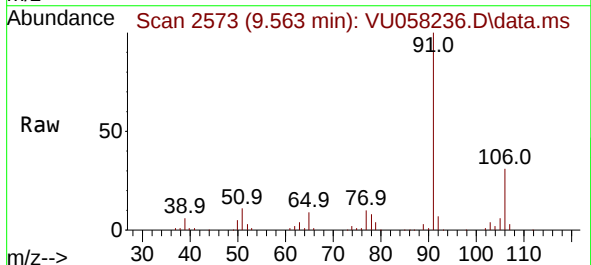
Instrument :
MSVOA_U
ClientSampleId :
DCOB0

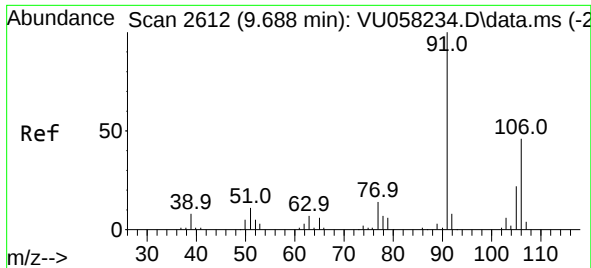
Tgt Ion:112 Resp: 172009
Ion Ratio Lower Upper
112 100
114 31.9 22.7 42.3
77 61.1 48.9 73.3



#52
Ethylbenzene
Concen: 4.500 ug/L
RT: 9.563 min Scan# 2573
Delta R.T. 0.000 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

Tgt Ion: 91 Resp: 96720
Ion Ratio Lower Upper
91 100
106 30.5 20.6 38.2

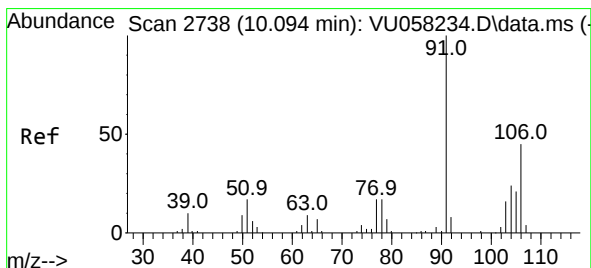
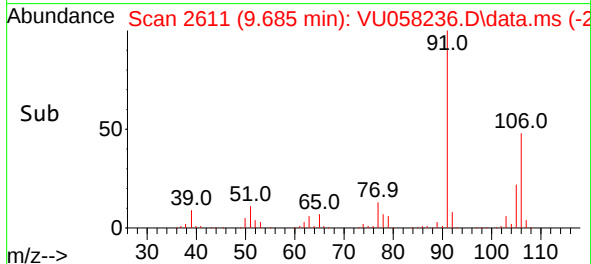
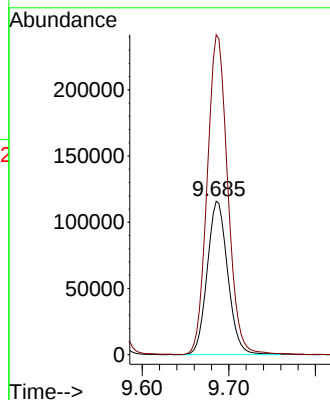
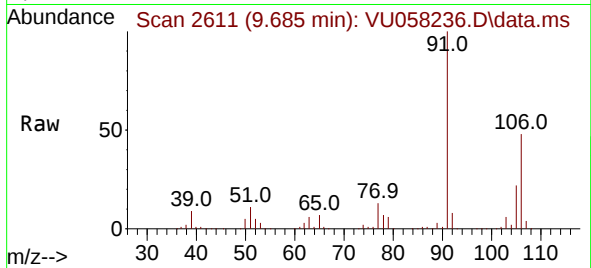




#53
m,p-Xylene
Concen: 24.913 ug/L
RT: 9.685 min Scan# 2611
Delta R.T. -0.003 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

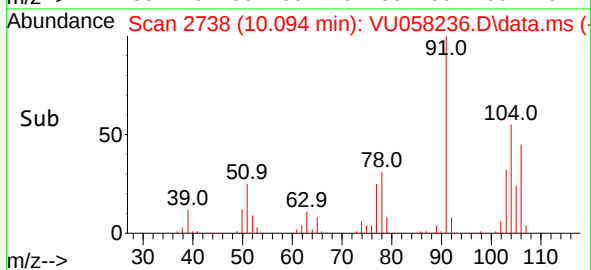
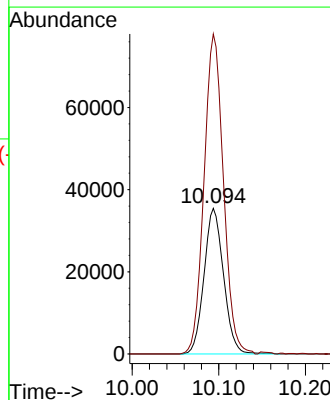
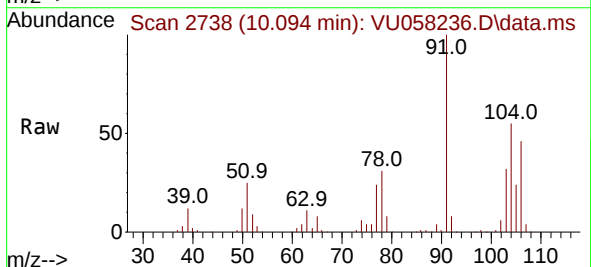
Instrument :
MSVOA_U
ClientSampleId :
DCOB0

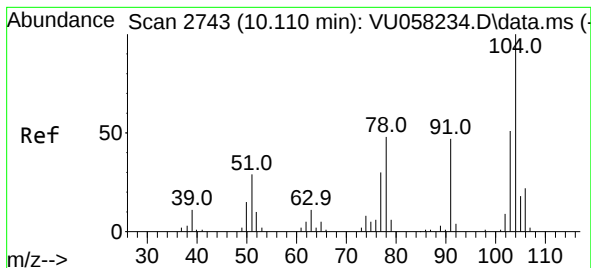
Tgt Ion:106 Resp: 190793
Ion Ratio Lower Upper
106 100
91 208.6 151.0 280.4



#54
o-Xylene
Concen: 7.177 ug/L
RT: 10.094 min Scan# 2738
Delta R.T. 0.000 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

Tgt Ion:106 Resp: 55487
Ion Ratio Lower Upper
106 100
91 219.7 154.3 286.7





#55

Styrene

Concen: 16.062 ug/L

RT: 10.110 min Scan# 21

Delta R.T. 0.000 min

Lab File: VU058236.D

Acq: 28 Mar 2024 13:51

Instrument :

MSVOA_U

ClientSampleId :

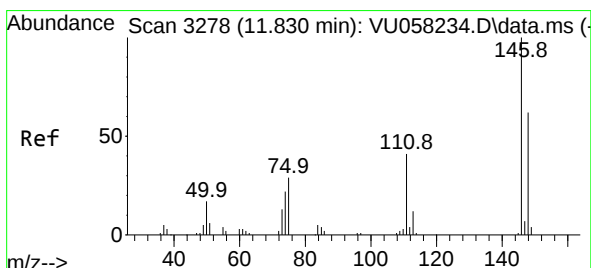
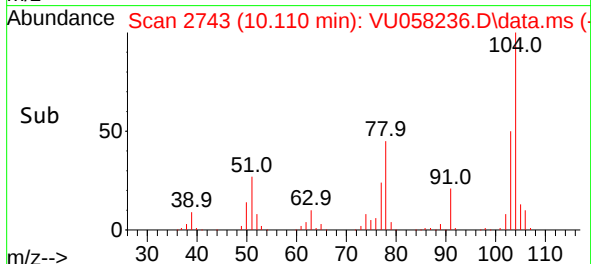
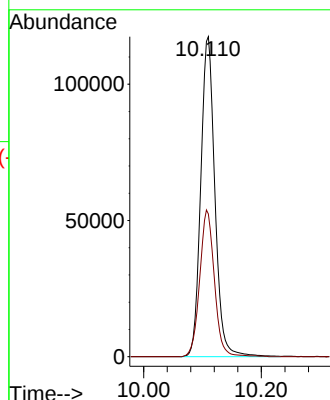
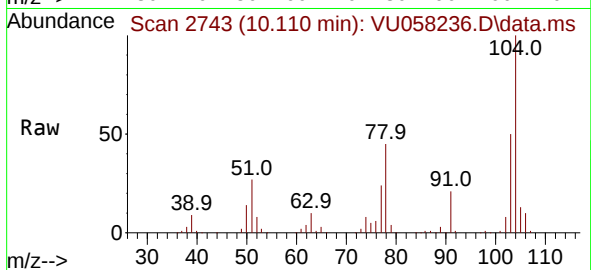
DCOB0

Tgt Ion:104 Resp: 196064

Ion Ratio Lower Upper

104 100

78 44.6 34.5 64.1



#65

1,4-Dichlorobenzene

Concen: 2.926 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. 0.000 min

Lab File: VU058236.D

Acq: 28 Mar 2024 13:51

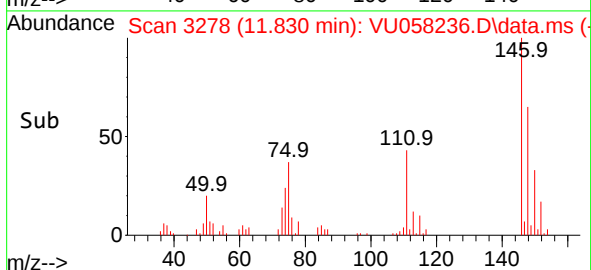
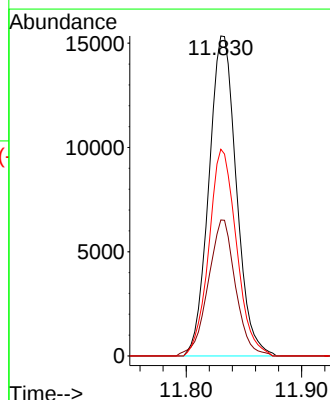
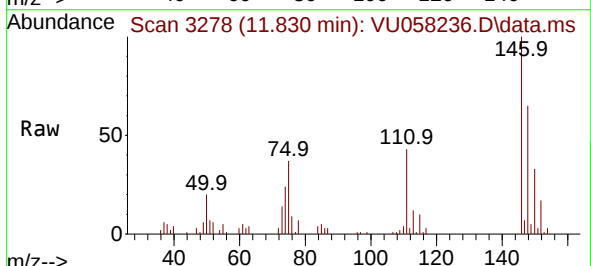
Tgt Ion:146 Resp: 25364

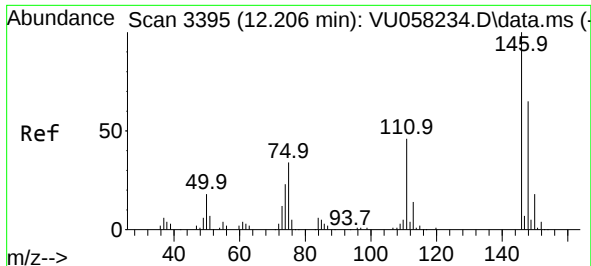
Ion Ratio Lower Upper

146 100

111 42.5 29.0 53.8

148 64.6 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 18.786 ug/L

RT: 12.206 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU058236.D

Acq: 28 Mar 2024 13:51

Instrument :

MSVOA_U

ClientSampleId :

DCOB0

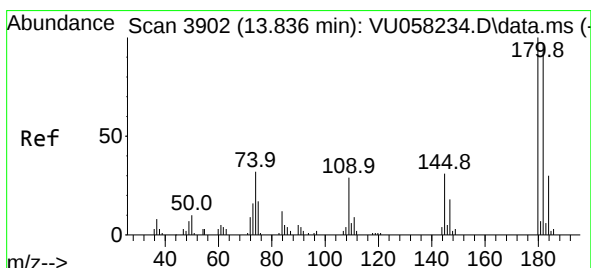
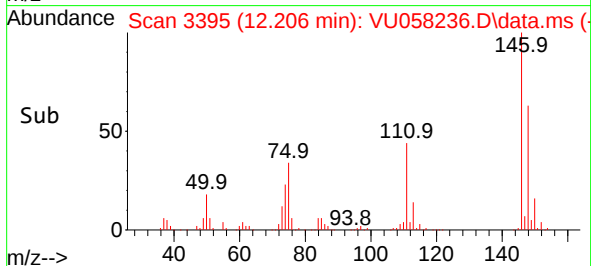
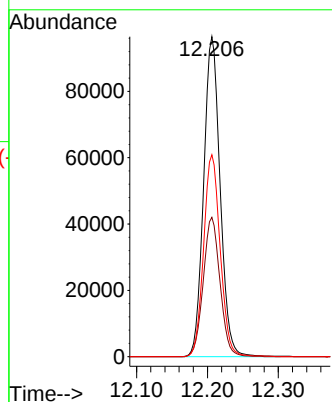
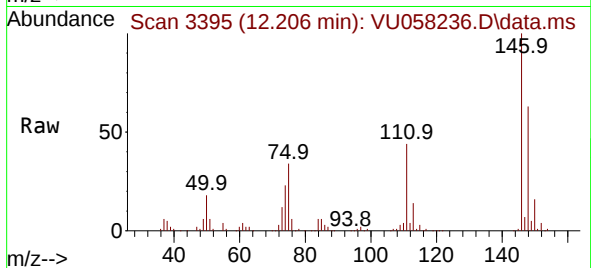
Tgt Ion:146 Resp: 155803

Ion Ratio Lower Upper

146 100

111 43.6 35.9 53.9

148 63.1 52.4 78.6



#70

1,2,4-trichlorobenzene

Concen: 5.463 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.000 min

Lab File: VU058236.D

Acq: 28 Mar 2024 13:51

Tgt Ion:180 Resp: 25551

Ion Ratio Lower Upper

180 100

182 96.6 74.5 111.7

145 29.7 24.5 36.7

