

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 :

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
35) Methylcyclohexane	6.685	83	6698	1.012	ug/L #	20
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
49) Dibromochloromethane	8.547	129	70143	19.997	ug/L #	10
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

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QLast Update : Fri Mar 29 01:09:13 2024
Response via : Initial Calibration

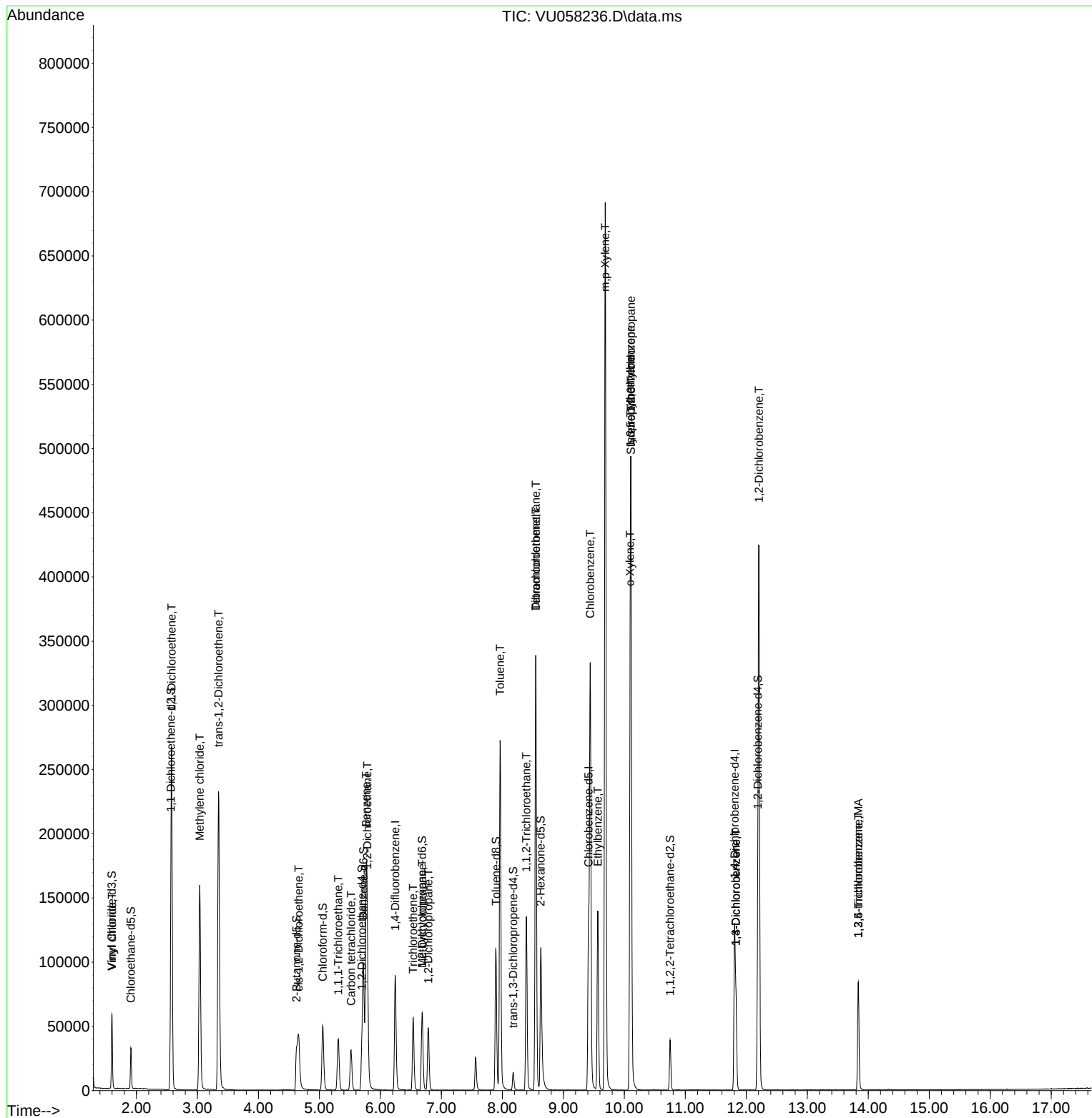
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.094	106	55487	7.177	ug/L	100
55) Styrene	10.110	104	196064	16.062	ug/L	93
60) Isopropylbenzene	10.100	105	39746	2.064	ug/L #	1
61) 1,2,3-Trichloropropane	10.107	75	10474	3.902	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.100	105	39746	2.459	ug/L #	30
64) 1,3-Dichlorobenzene	11.830	146	25364	2.828	ug/L	99
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
69) 1,3,5-Trichlorobenzene	13.836	180	25551	4.075	ug/L	98
70) 1,2,4-trichlorobenzene	13.836	180	25551	5.463	ug/L	97

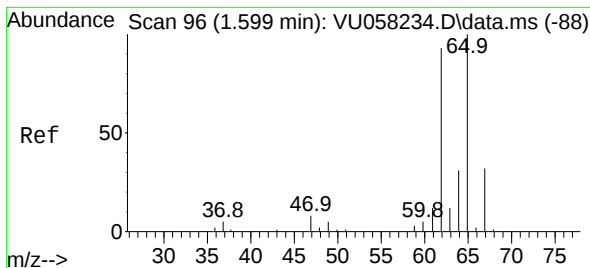
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 4.839 ug/L

RT: 1.599 min Scan# 96

Delta R.T. 0.000 min

Lab File: VU058236.D

Acq: 28 Mar 2024 13:51

Instrument :

MSVOA_U

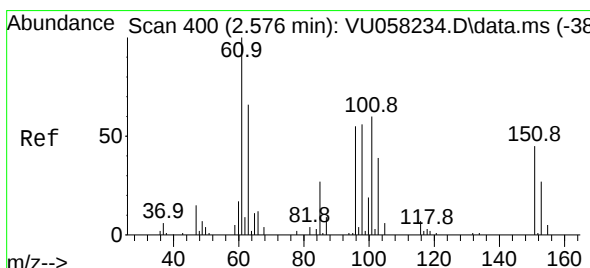
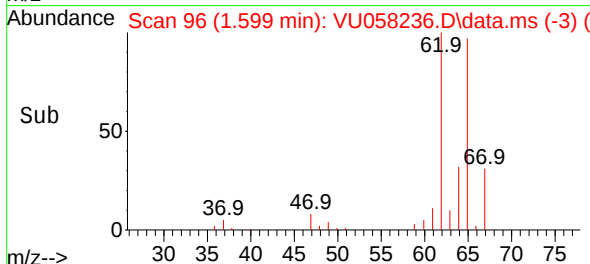
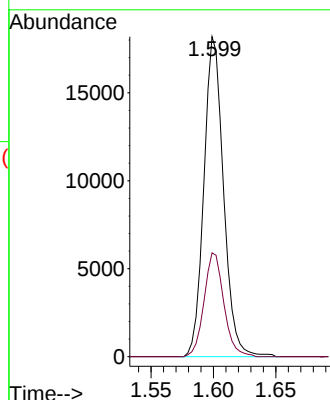
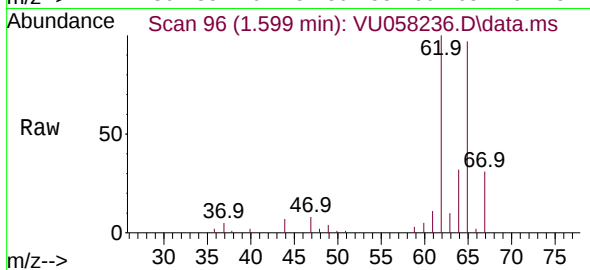
ClientSampleId :

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

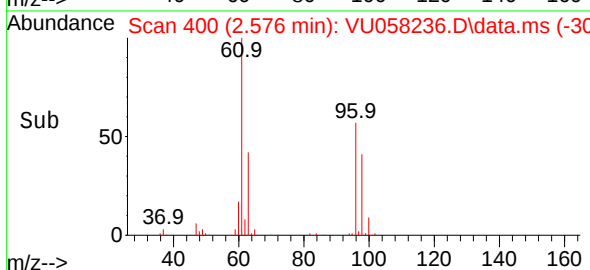
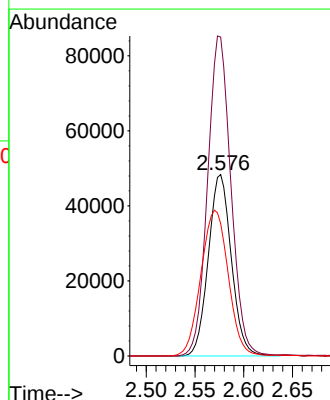
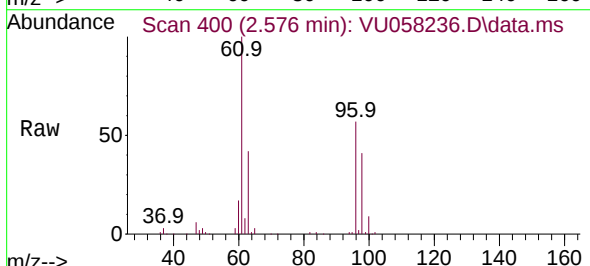
Tgt Ion: 96 Resp: 79535

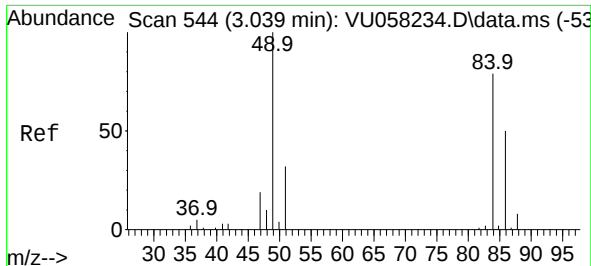
Ion Ratio Lower Upper

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# 544

Delta R.T. -0.003 min

Lab File: VU058236.D

Acq: 28 Mar 2024 13:51

Instrument :

MSVOA_U

ClientSampleId :

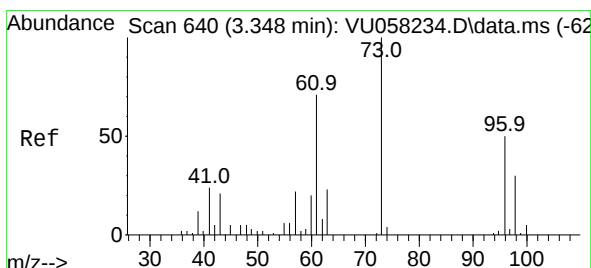
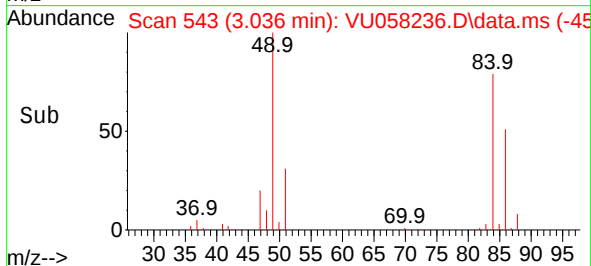
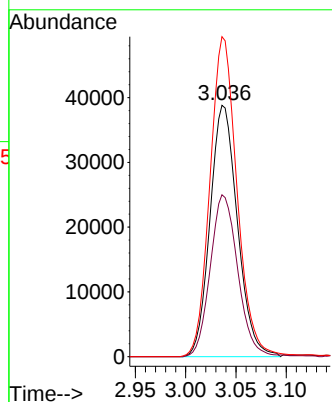
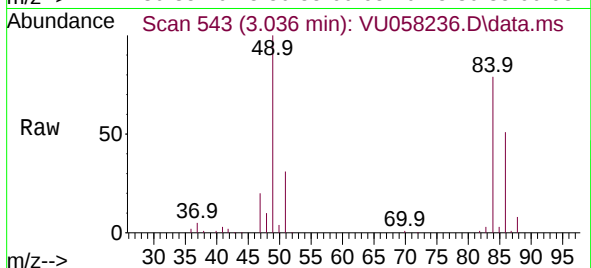
Tgt Ion: 84 Resp: 73665

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

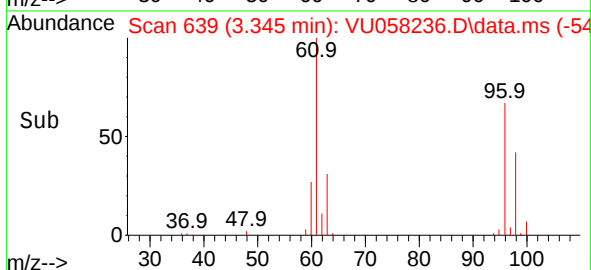
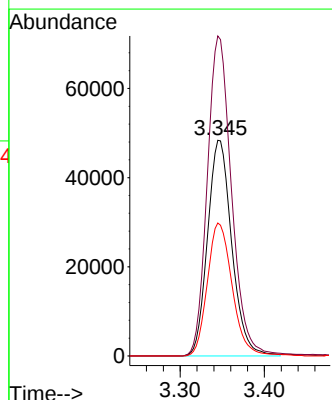
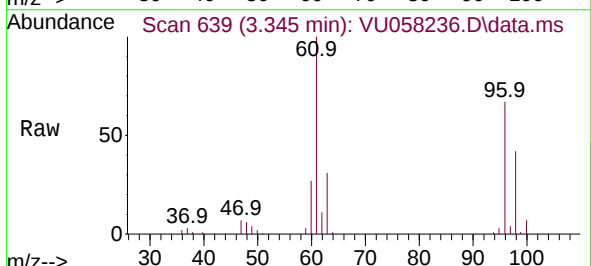
Tgt Ion: 96 Resp: 96873

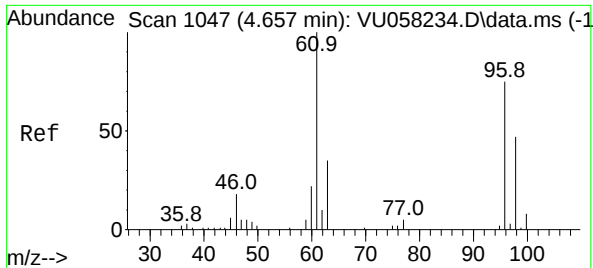
Ion Ratio Lower Upper

96 100

61 148.4 102.5 190.3

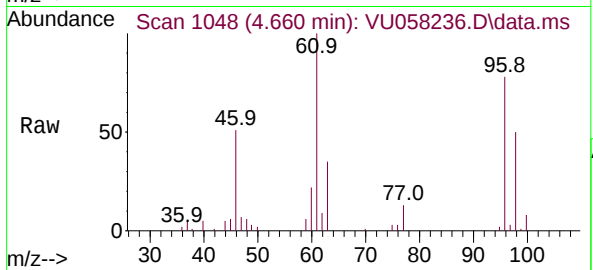
98 61.7 44.0 81.8



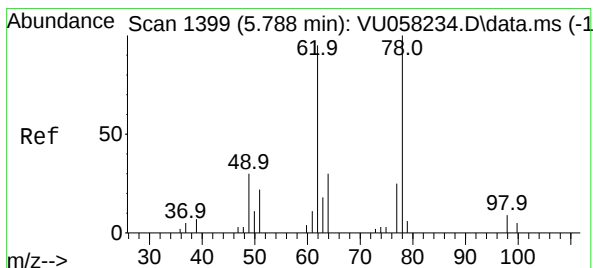
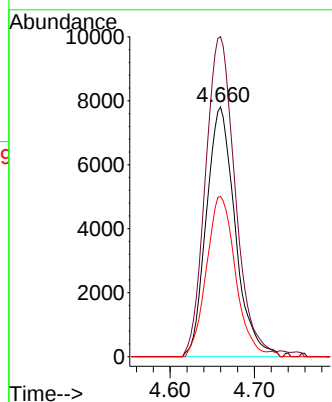
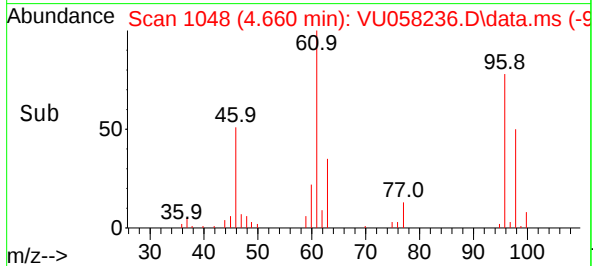


#22
cis-1,2-Dichloroethene
Concen: 3.984 ug/L
RT: 4.660 min Scan# 1047
Delta R.T. 0.003 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

Instrument :
MSVOA_U
ClientSampleId :

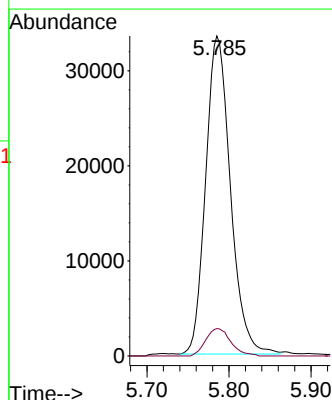
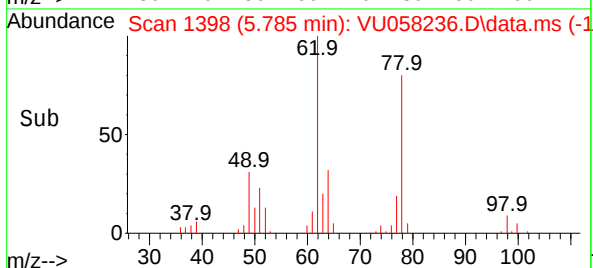
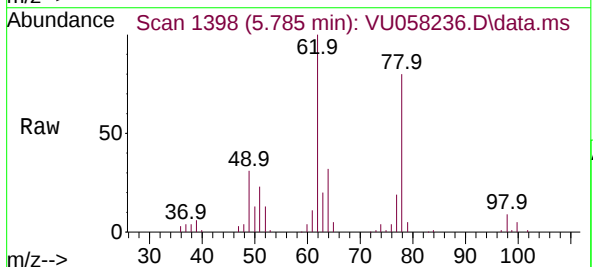


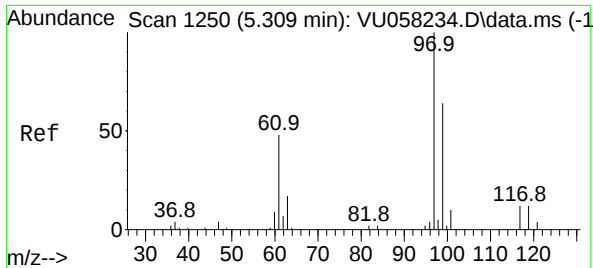
Tgt Ion: 96 Resp: 18554
Ion Ratio Lower Upper
96 100
61 128.2 92.8 172.4
98 64.2 43.2 80.2



#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

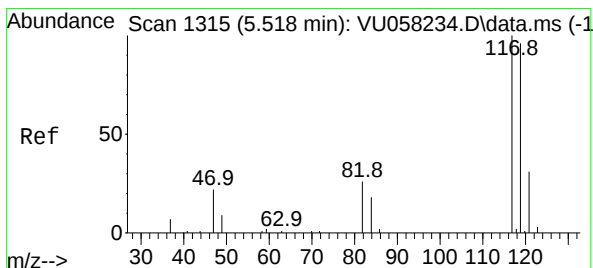
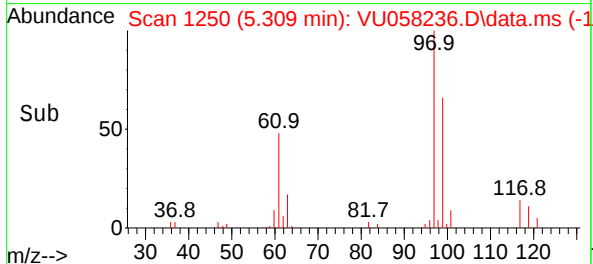
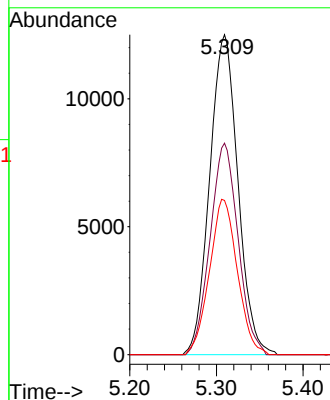
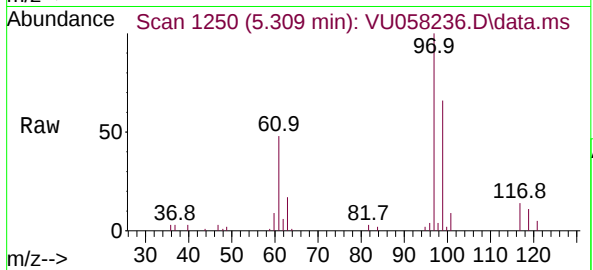




#29
1,1,1-Trichloroethane
Concen: 3.954 ug/L
RT: 5.309 min Scan# 1250
Delta R.T. 0.000 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

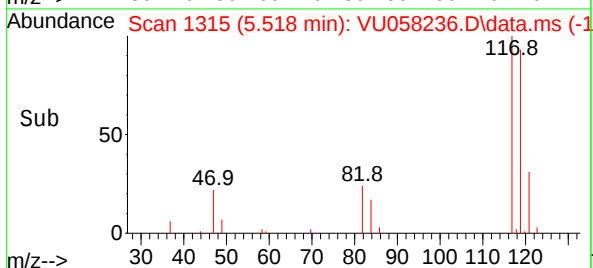
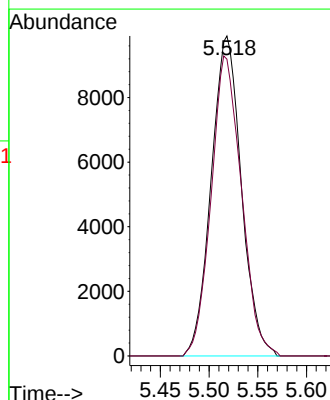
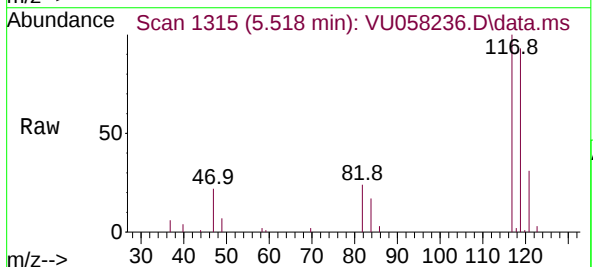
Instrument :
MSVOA_U
ClientSampleId :

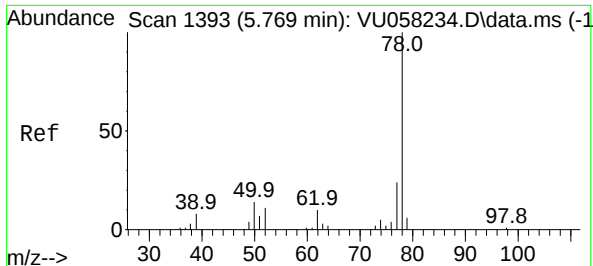
Tgt Ion:	97	Resp:	28358
Ion	Ratio	Lower	Upper
97	100		
99	65.5	50.5	75.7
61	47.9	36.3	54.5



#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# 1393

Delta R.T. -0.003 min

Lab File: VU058236.D

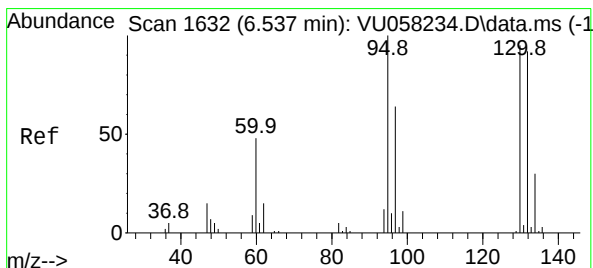
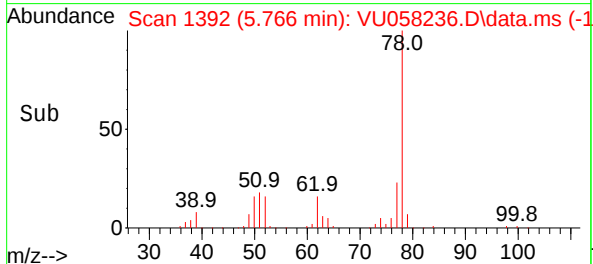
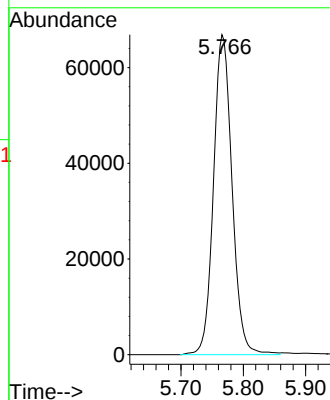
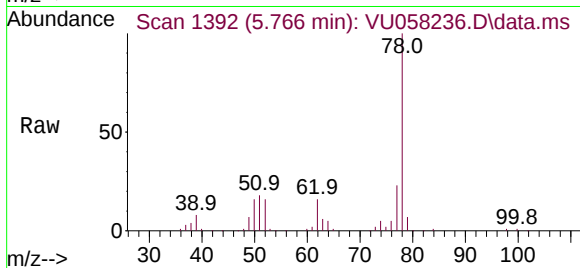
Acq: 28 Mar 2024 13:51

Instrument :

MSVOA_U

ClientSampleId :

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

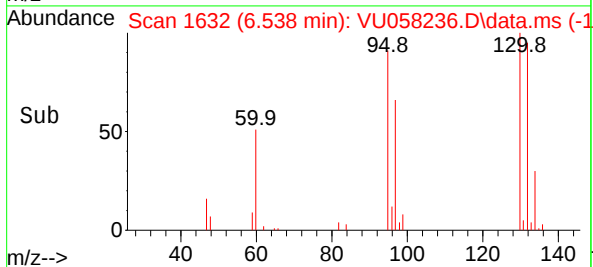
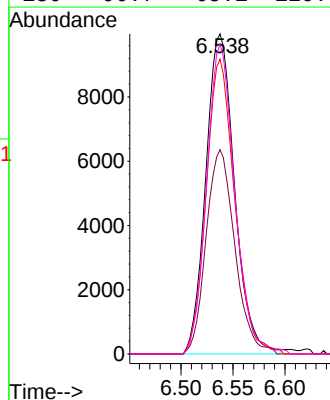
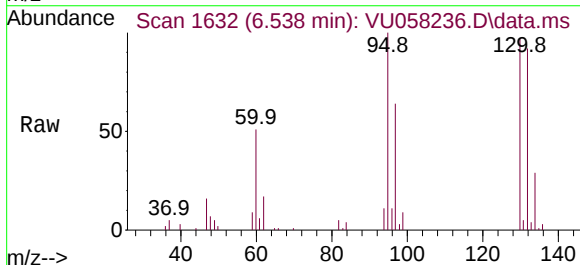
Ion Ratio Lower Upper

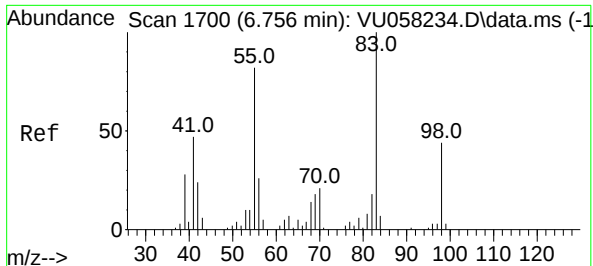
95 100

97 63.9 47.7 88.7

132 92.1 63.6 118.2

130 96.7 65.1 120.9





#35

Methylcyclohexane

Concen: 1.012 ug/L

RT: 6.685 min Scan# 1

Delta R.T. -0.071 min

Lab File: VU058236.D

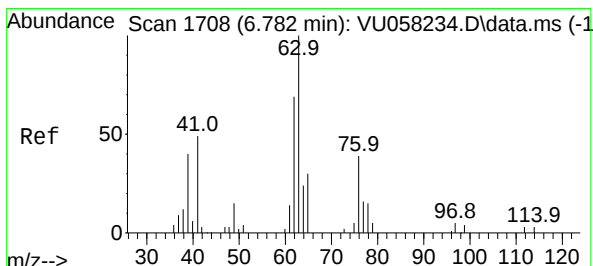
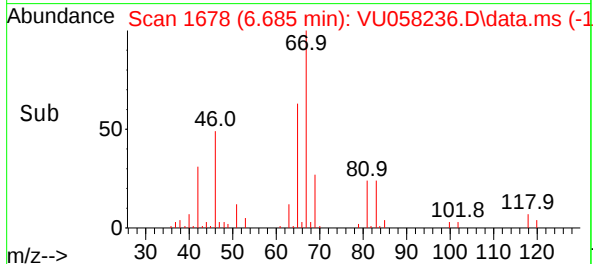
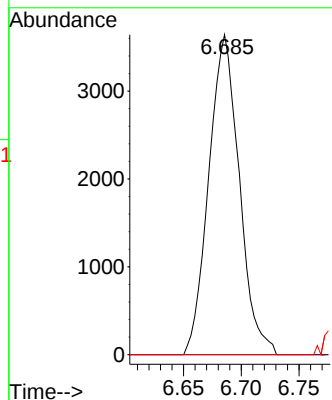
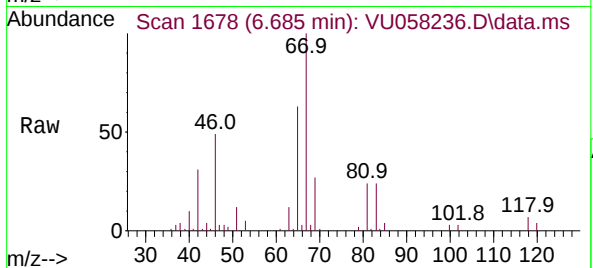
Acq: 28 Mar 2024 13:51

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 83	Resp: 6698
Ion Ratio	Lower Upper
83	100
55	0.0 62.7 94.1#
98	3.6 37.3 55.9#



#37

1,2-Dichloropropane

Concen: 3.807 ug/L

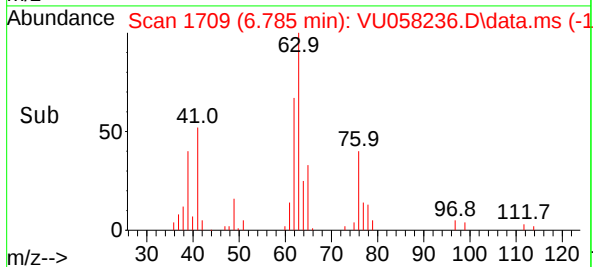
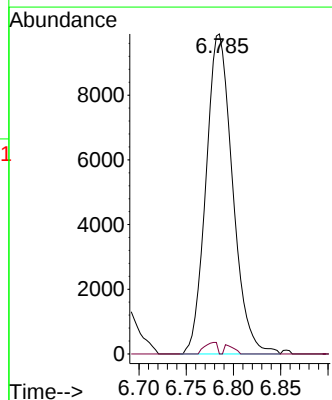
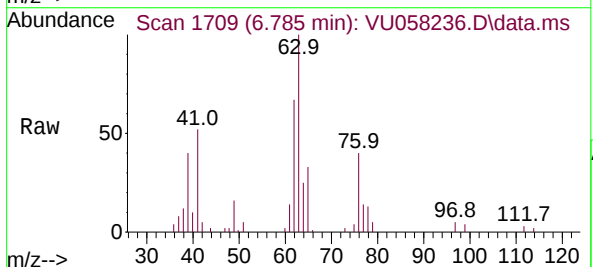
RT: 6.785 min Scan# 1709

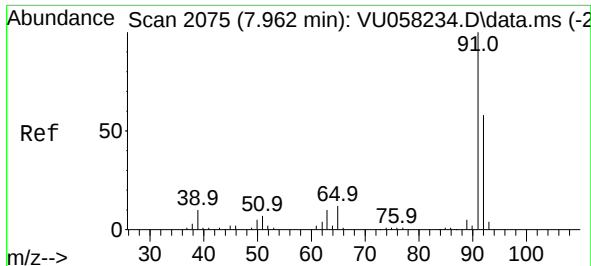
Delta R.T. 0.003 min

Lab File: VU058236.D

Acq: 28 Mar 2024 13:51

Tgt Ion: 63	Resp: 19377
Ion Ratio	Lower Upper
63	100
112	1.7 2.7 4.1#

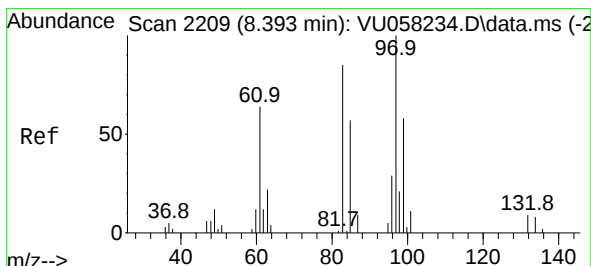
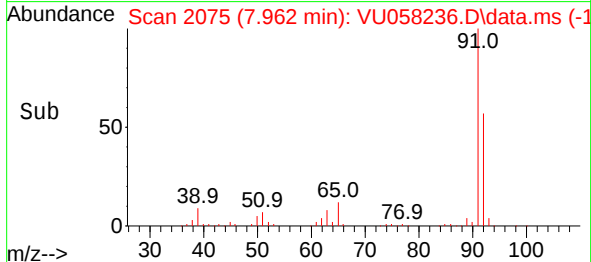
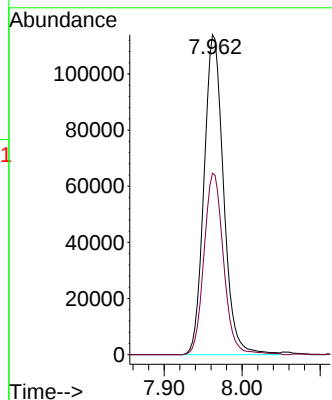
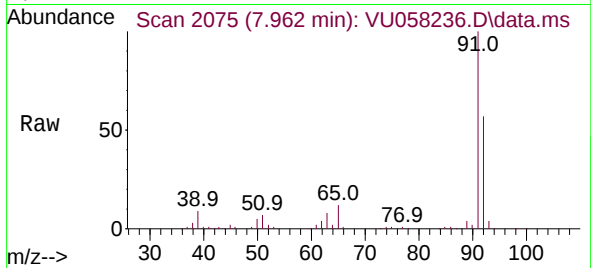




#42
Toluene
Concen: 10.321 ug/L
RT: 7.962 min Scan# 2075
Delta R.T. 0.000 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

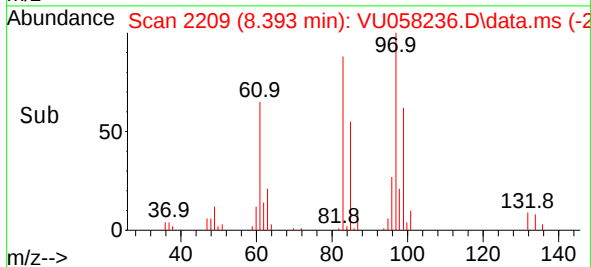
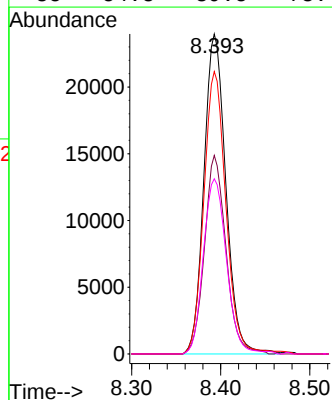
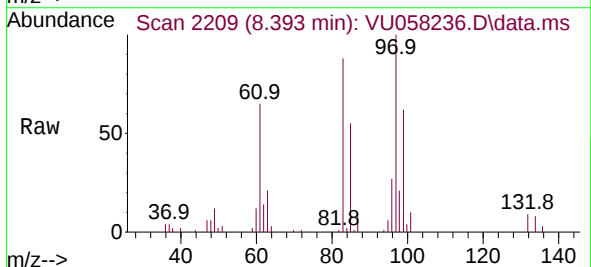
Instrument :
MSVOA_U
ClientSampleId :

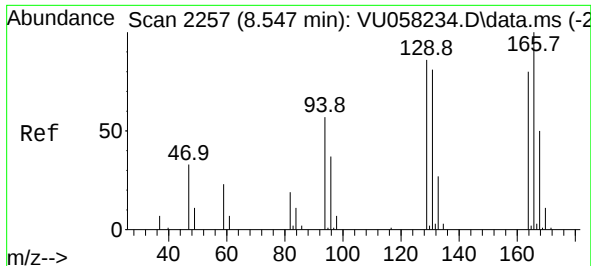
Tgt Ion: 91 Resp: 198676
Ion Ratio Lower Upper
91 100
92 56.7 40.7 75.5



#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

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

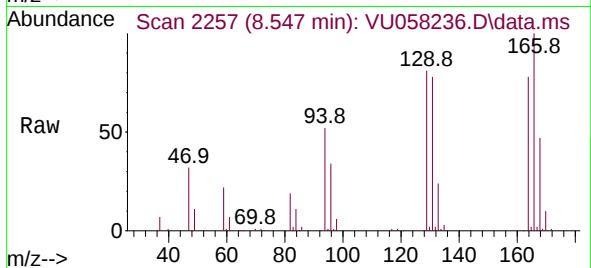
Lab File: VU058236.D

Acq: 28 Mar 2024 13:51

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 69661

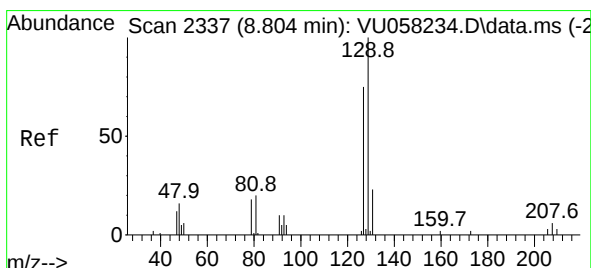
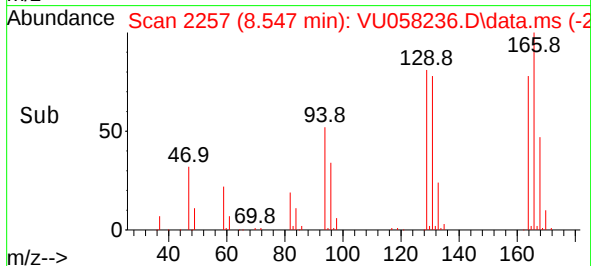
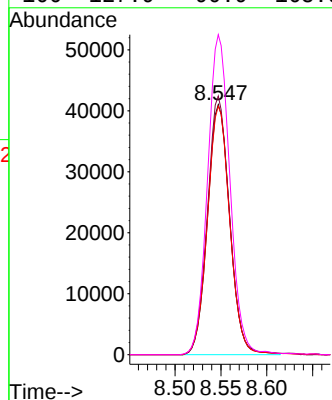
Ion Ratio Lower Upper

164 100

129 103.4 71.3 132.3

131 99.4 70.8 131.4

166 127.9 90.9 168.9



#49

Dibromochloromethane

Concen: 19.997 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. -0.257 min

Lab File: VU058236.D

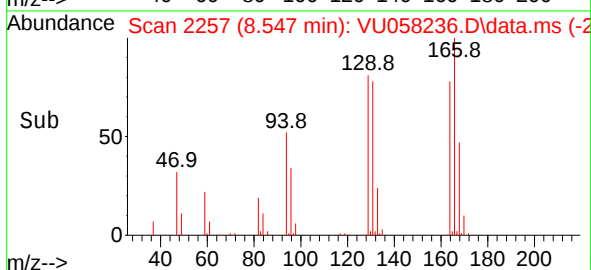
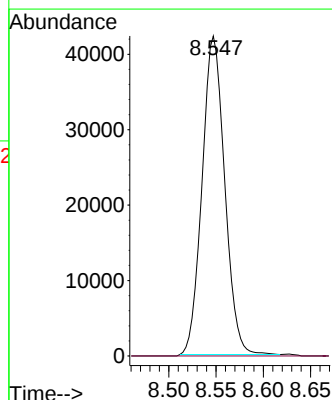
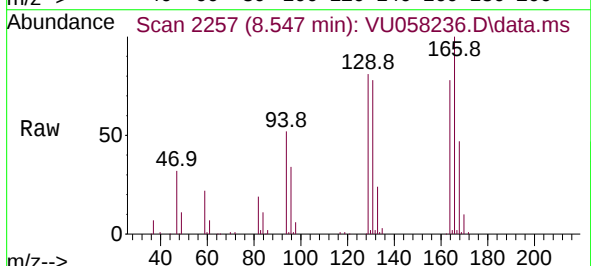
Acq: 28 Mar 2024 13:51

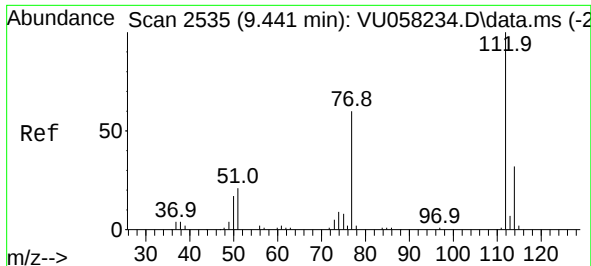
Tgt Ion:129 Resp: 70143

Ion Ratio Lower Upper

129 100

127 0.0 55.7 103.5#





#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 :

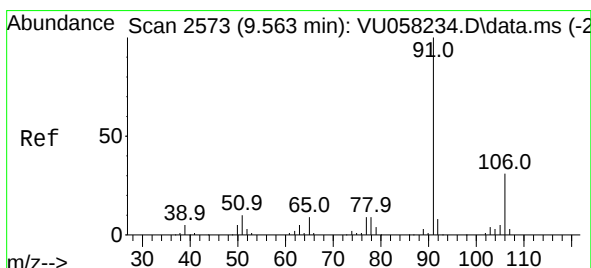
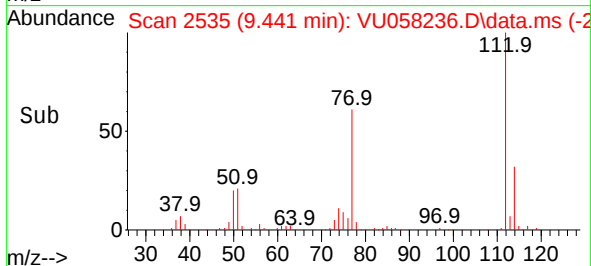
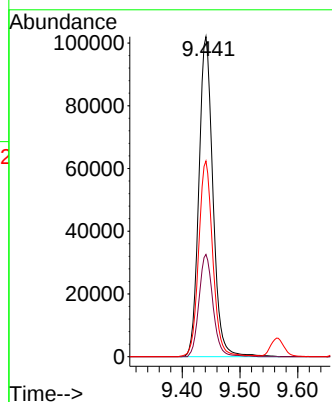
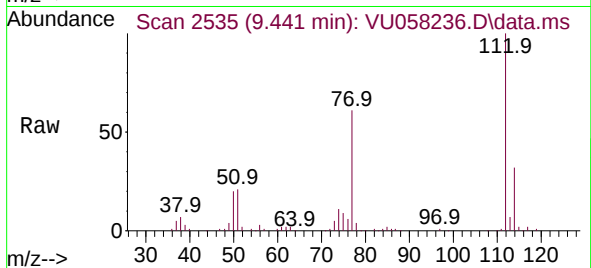
Tgt Ion:112 Resp: 172009

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

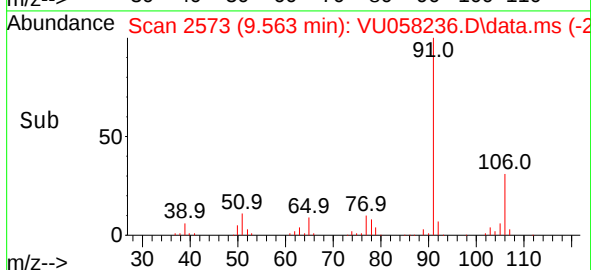
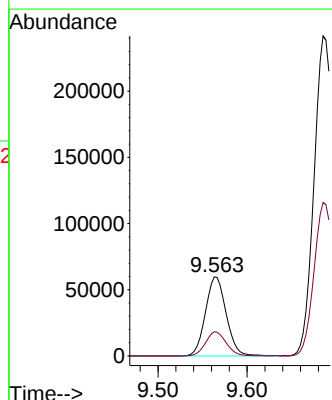
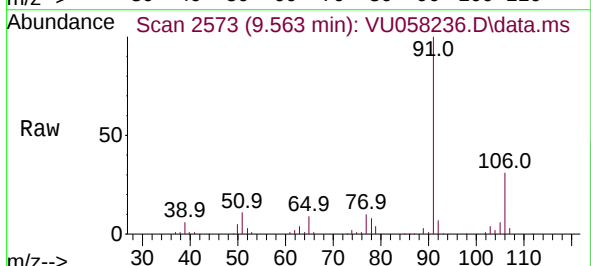
Acq: 28 Mar 2024 13:51

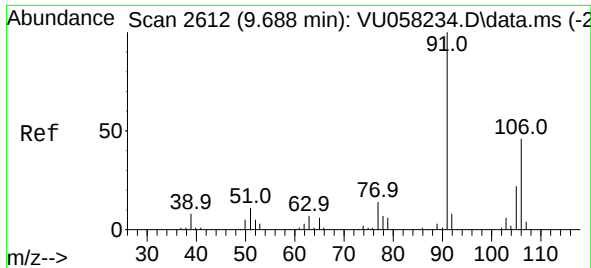
Tgt Ion: 91 Resp: 96720

Ion Ratio Lower Upper

91 100

106 30.5 20.6 38.2

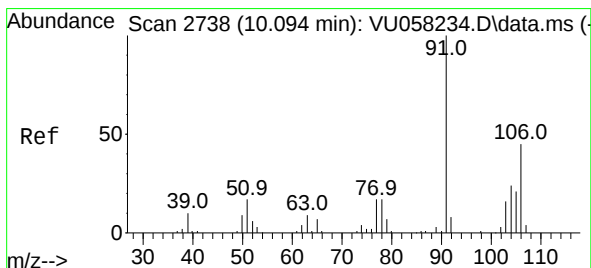
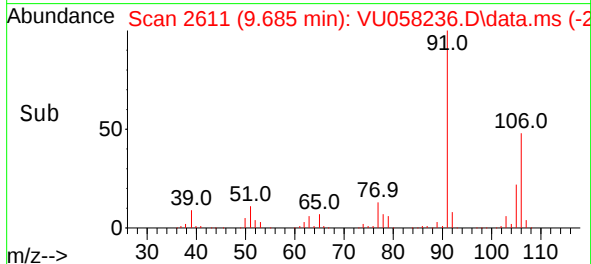
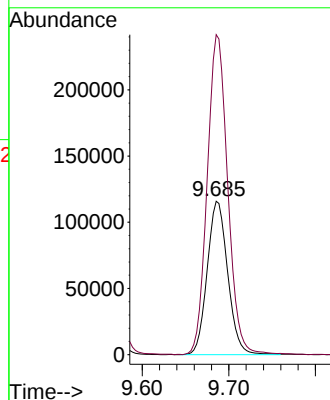
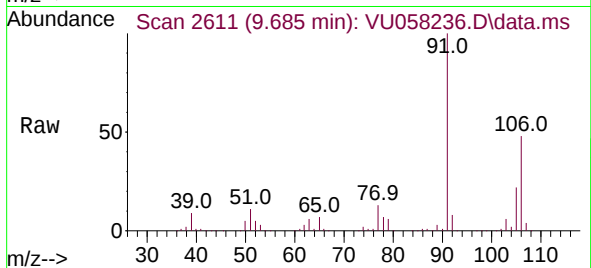




#53
m,p-Xylene
Concen: 24.913 ug/L
RT: 9.685 min Scan# 2611
Delta R.T. -0.003 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

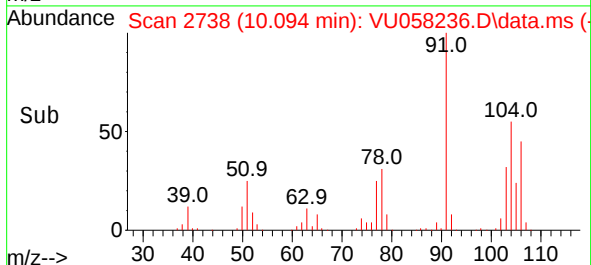
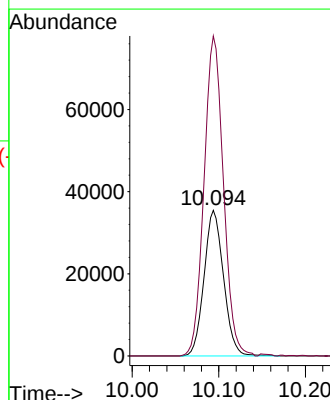
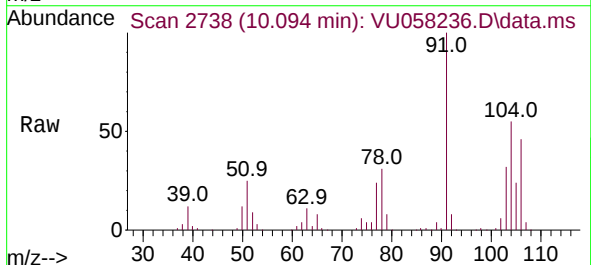
Instrument :
MSVOA_U
ClientSampleId :

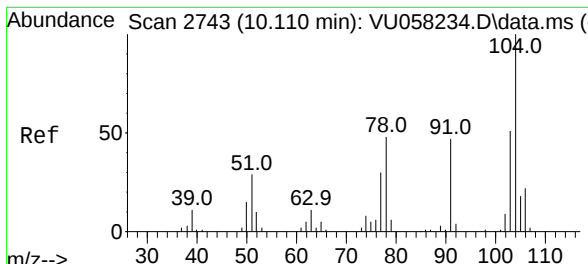
Tgt Ion:106 Resp: 190793
Ion Ratio Lower Upper
106 100
91 208.6 151.0 280.4



#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

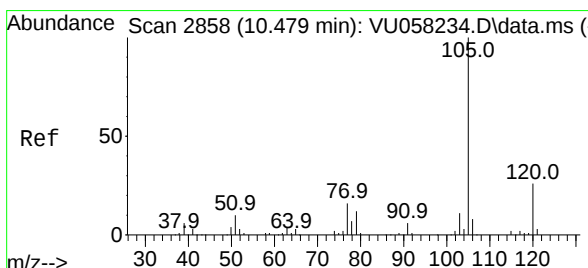
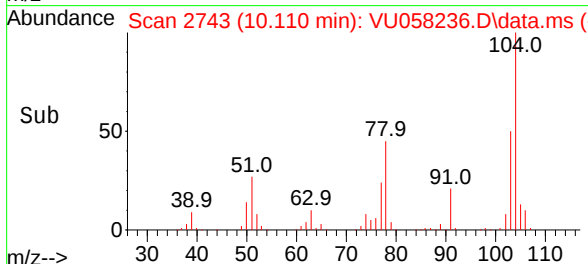
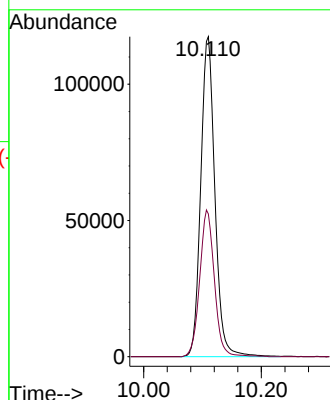
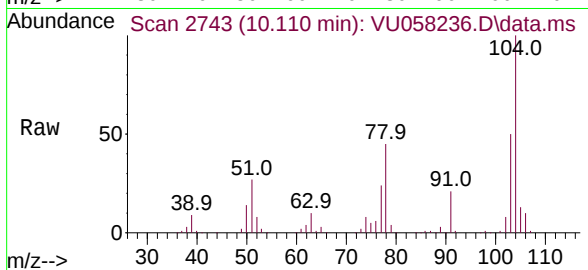




#55
Styrene
Concen: 16.062 ug/L
RT: 10.110 min Scan# 2743
Delta R.T. 0.000 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

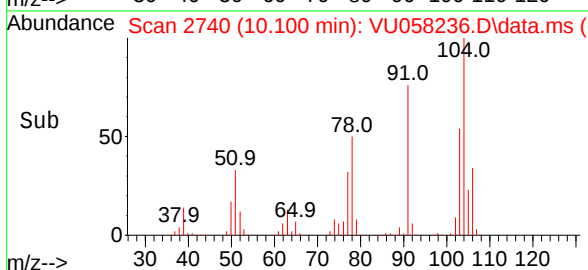
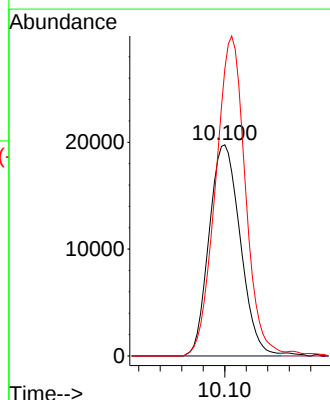
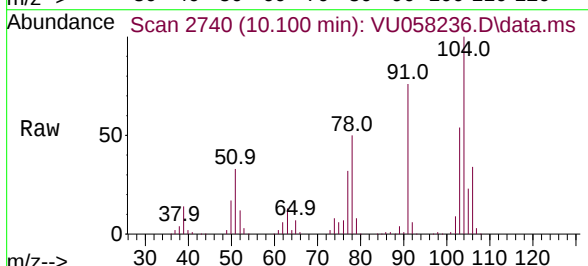
Instrument :
MSVOA_U
ClientSampleId :

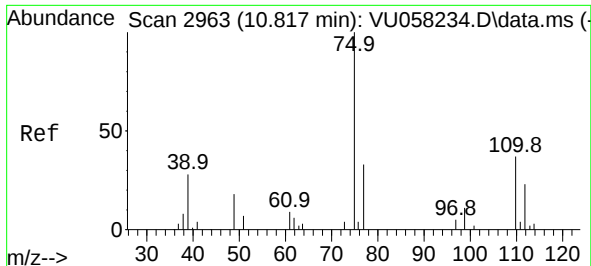
Tgt Ion:104 Resp: 196064
Ion Ratio Lower Upper
104 100
78 44.6 34.5 64.1



#60
Isopropylbenzene
Concen: 2.064 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. -0.379 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

Tgt Ion:105 Resp: 39746
Ion Ratio Lower Upper
105 100
120 0.0 20.5 30.7#
77 144.3 13.2 19.8#

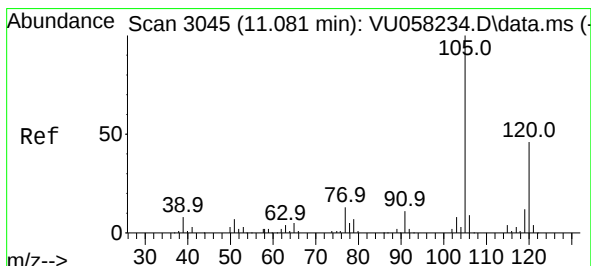
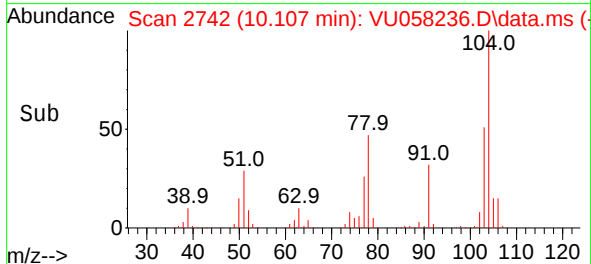
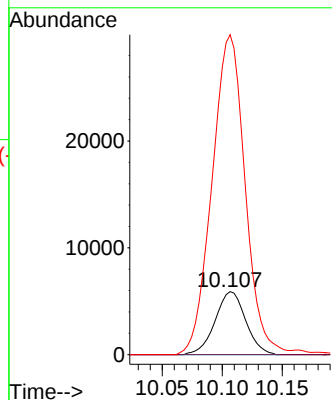
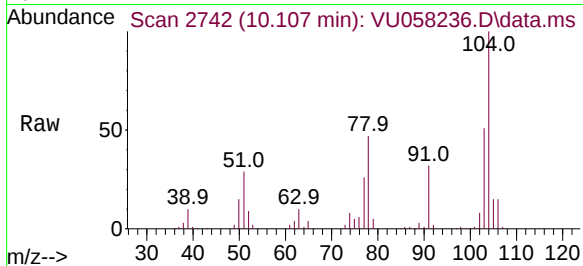




#61
1,2,3-Trichloropropane
Concen: 3.902 ug/L
RT: 10.107 min Scan# 21
Delta R.T. -0.711 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

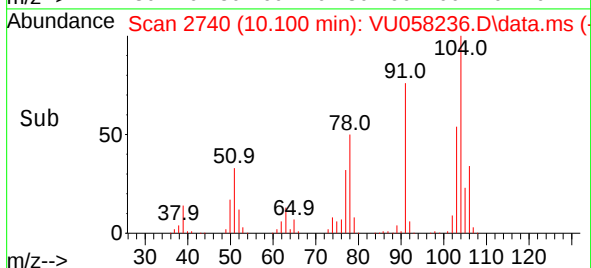
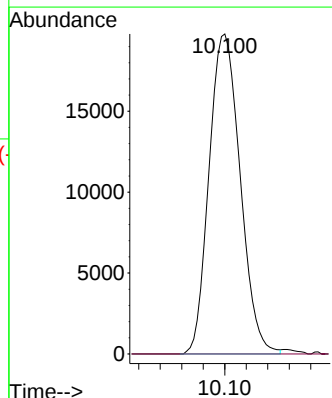
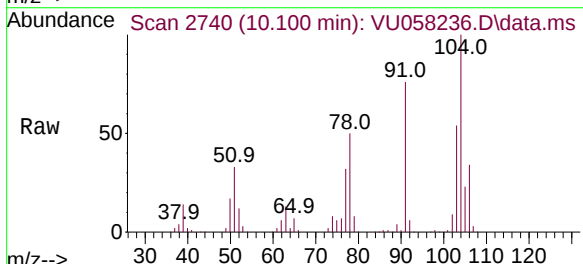
Instrument :
MSVOA_U
ClientSampleId :

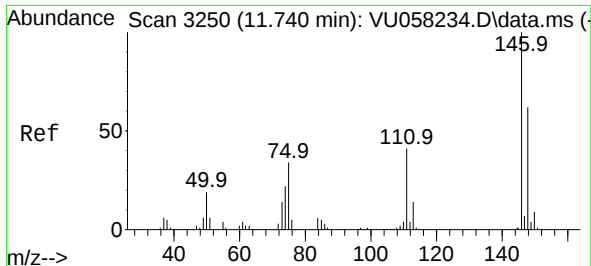
Tgt Ion: 75 Resp: 10474
Ion Ratio Lower Upper
75 100
110 0.0 28.1 42.1#
77 547.5 25.1 37.7#



#62
1,3,5-Trimethylbenzene
Concen: 2.459 ug/L
RT: 10.100 min Scan# 2740
Delta R.T. -0.981 min
Lab File: VU058236.D
Acq: 28 Mar 2024 13:51

Tgt Ion:105 Resp: 39746
Ion Ratio Lower Upper
105 100
120 0.0 36.7 55.1#





#64

1,3-Dichlorobenzene

Concen: 2.828 ug/L

RT: 11.830 min Scan# 3278

Delta R.T. 0.090 min

Lab File: VU058236.D

Acq: 28 Mar 2024 13:51

Instrument :

MSVOA_U

ClientSampleId :

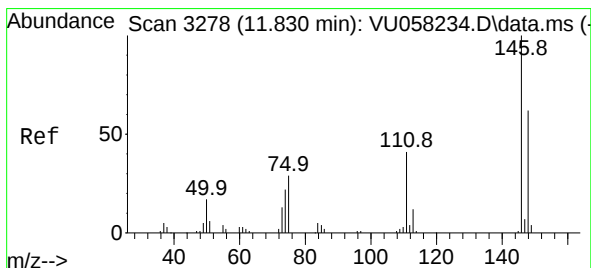
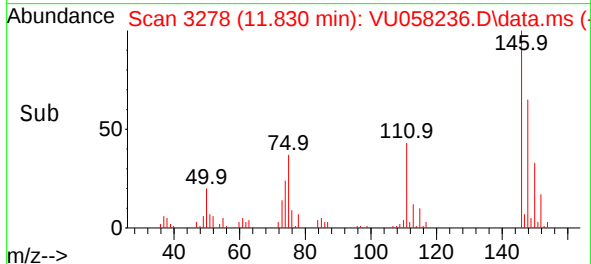
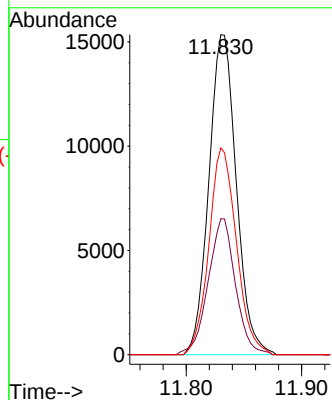
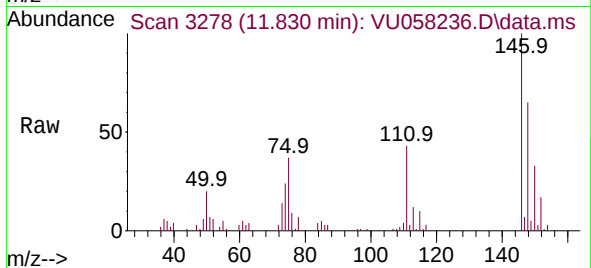
Tgt Ion:146 Resp: 25364

Ion Ratio Lower Upper

146 100

111 42.5 29.9 55.5

148 64.6 44.4 82.4



#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

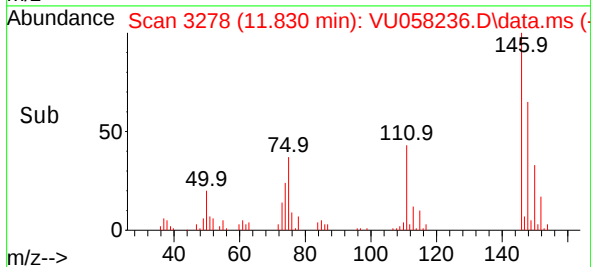
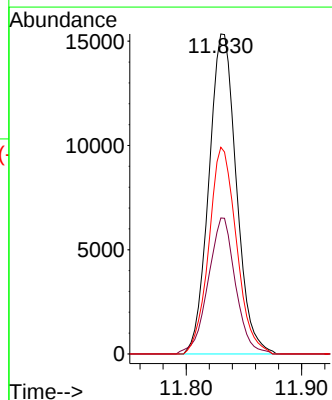
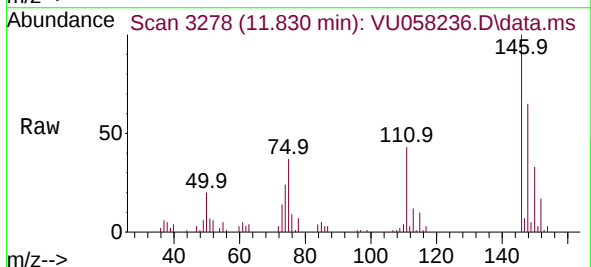
Tgt Ion:146 Resp: 25364

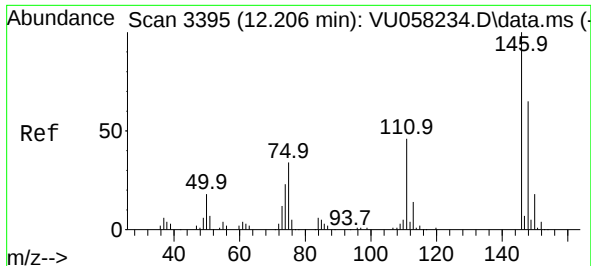
Ion Ratio Lower Upper

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# 3395

Delta R.T. 0.000 min

Lab File: VU058236.D

Acq: 28 Mar 2024 13:51

Instrument :

MSVOA_U

ClientSampleId :

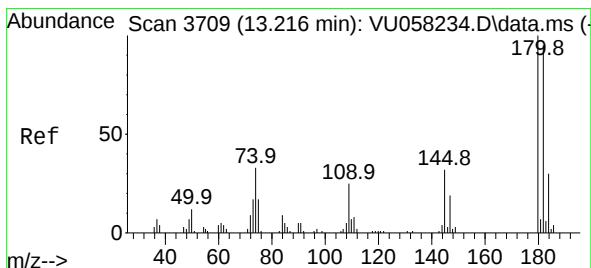
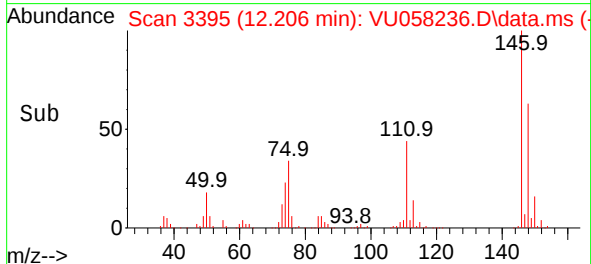
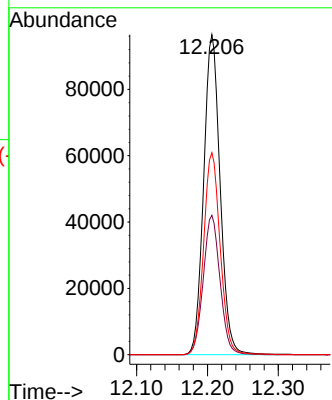
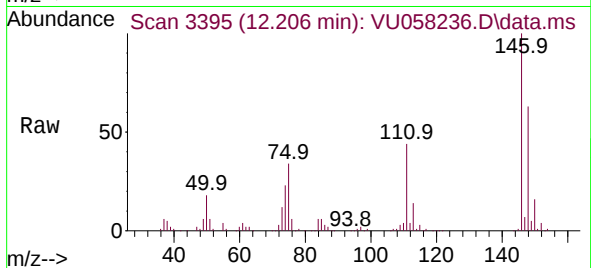
Tgt Ion:146 Resp: 155803

Ion Ratio Lower Upper

146 100

111 43.6 35.9 53.9

148 63.1 52.4 78.6



#69

1,3,5-Trichlorobenzene

Concen: 4.075 ug/L

RT: 13.836 min Scan# 3902

Delta R.T. 0.621 min

Lab File: VU058236.D

Acq: 28 Mar 2024 13:51

Tgt Ion:180 Resp: 25551

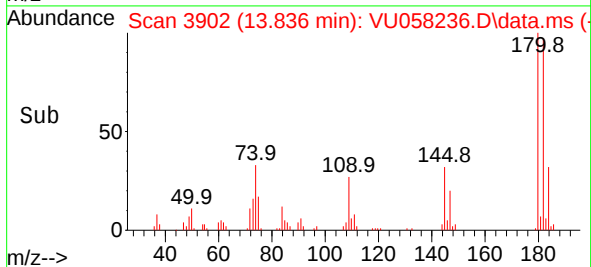
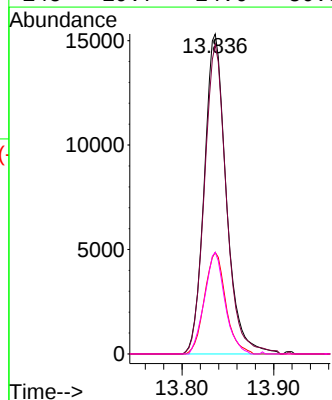
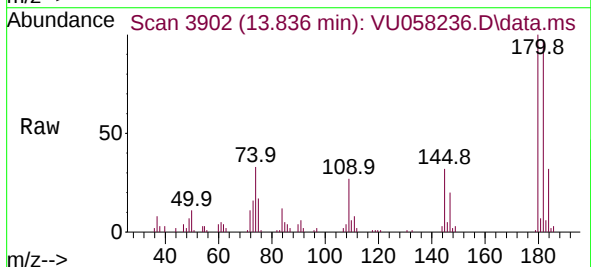
Ion Ratio Lower Upper

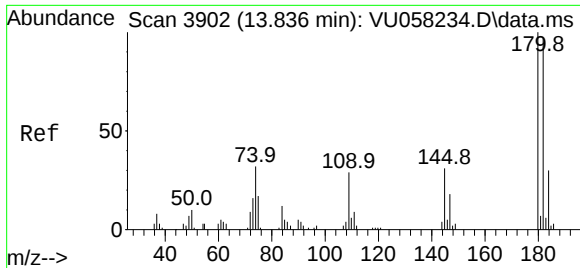
180 100

182 96.6 75.4 113.0

184 30.6 24.8 37.2

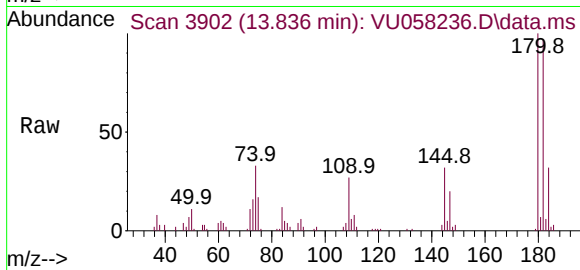
145 29.7 24.6 36.8





#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

Instrument :
 MSVOA_U
 ClientSampleId :



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

