

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040824\
 Data File : VU058463.D
 Acq On : 08 Apr 2024 12:59
 Operator : MD/SY
 Sample : P1925-21DL 2000X
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 09 04:24:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR040424WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Apr 09 04:22:28 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	75714	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	73435	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	33619	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	16636	3.319	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	66.400%
7) Chloroethane-d5	1.907	69	16965	3.894	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	77.800%
11) 1,1-Dichloroethene-d2	2.560	65	8150	3.592	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	71.800%
20) 2-Butanone-d5	4.624	46	52686	49.874	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.740%
24) Chloroform-d	5.055	84	45060	4.503	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.000%
26) 1,2-Dichloroethane-d4	5.695	65	22735	4.868	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.400%
32) Benzene-d6	5.717	84	82325	4.164	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.200%
36) 1,2-Dichloropropane-d6	6.682	67	28658	4.622	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	92.400%
41) Toluene-d8	7.891	98	68739	3.921	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.400%
43) trans-1,3-Dichloroprop...	8.174	79	8347	4.337	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.800%
46) 2-Hexanone-d5	8.627	63	38681	48.728	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.460%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	19784	4.520	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.400%
66) 1,2-Dichlorobenzene-d4	12.187	152	25923	4.578	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.600%
Target Compounds						
					Qvalue	
16) Methylene chloride	3.036	84	2505	0.352	ug/L	90
22) cis-1,2-Dichloroethene	4.656	96	29246	4.631	ug/L	99
34) Trichloroethene	6.541	95	3263	0.486	ug/L	94
37) 1,2-Dichloropropane	6.682	63	3181	0.454	ug/L #	90
42) Toluene	7.962	91	106083	3.799	ug/L	100
47) Tetrachloroethene	8.547	164	13864	2.818	ug/L	97
49) Dibromochloromethane	8.547	129	14220	3.007	ug/L #	11
51) Chlorobenzene	9.441	112	7207	0.427	ug/L	95
52) Ethylbenzene	9.566	91	4303	0.145	ug/L	93
53) m,p-Xylene	9.688	106	5889	0.556	ug/L	98
54) o-Xylene	10.100	106	1937	0.187	ug/L	84
61) 1,2,3-Trichloropropane	11.740	75	996	0.290	ug/L #	68
63) 1,2,4-Trimethylbenzene	11.466	105	2500	0.122	ug/L	97
64) 1,3-Dichlorobenzene	11.743	146	3247	0.272	ug/L	98
65) 1,4-Dichlorobenzene	11.833	146	17121	1.470	ug/L	97
67) 1,2-Dichlorobenzene	12.206	146	4833	0.444	ug/L	98
69) 1,3,5-Trichlorobenzene	13.833	180	47059	5.323	ug/L	99
70) 1,2,4-trichlorobenzene	13.833	180	47059	6.903	ug/L	100
72) 1,2,3-Trichlorobenzene	14.325	180	7703	1.368	ug/L	99

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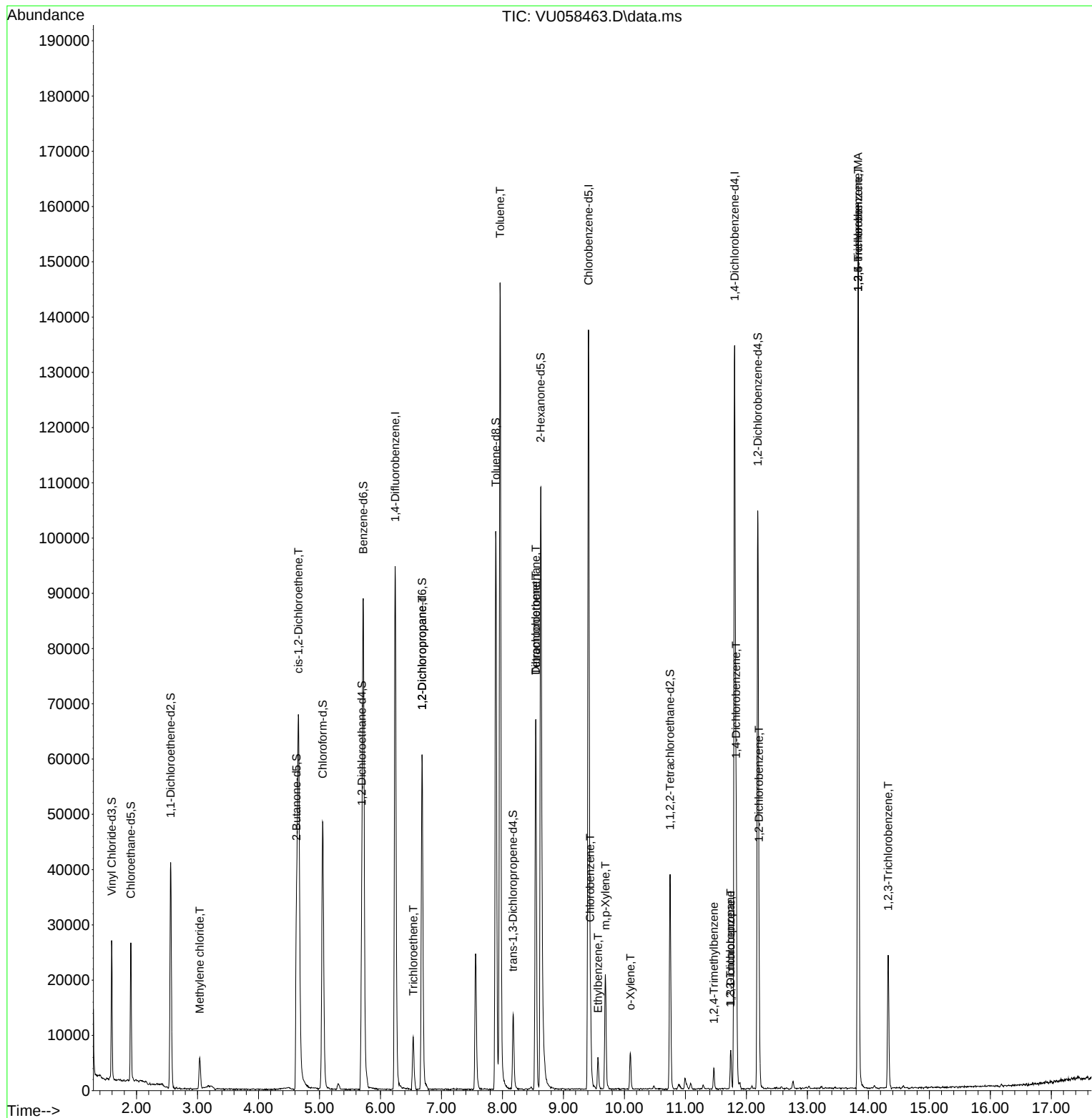
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

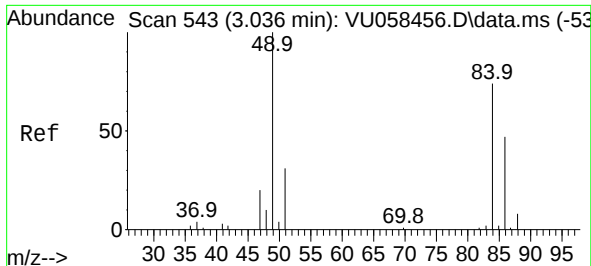
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#16

Methylene chloride

Concen: 0.352 ug/L

RT: 3.036 min Scan# 543

Delta R.T. 0.000 min

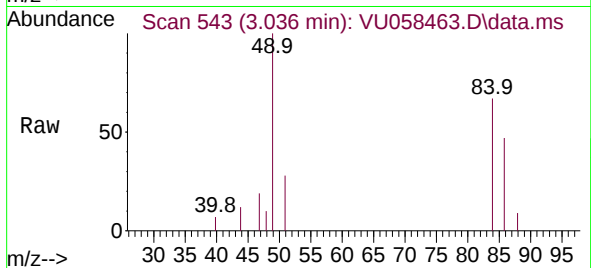
Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

Instrument :

MSVOA_U

ClientSampleId :



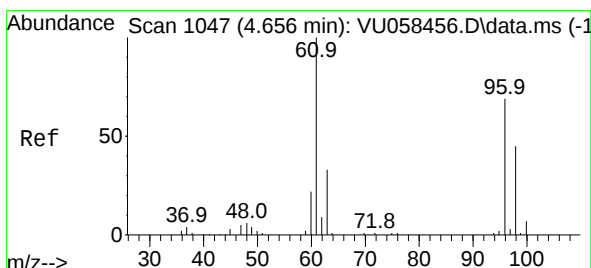
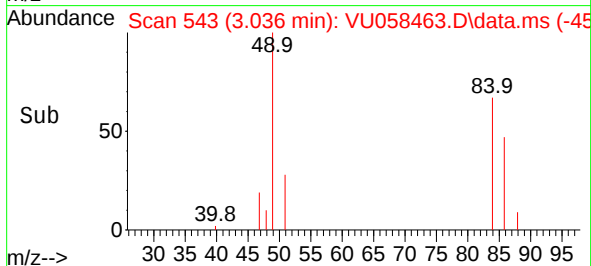
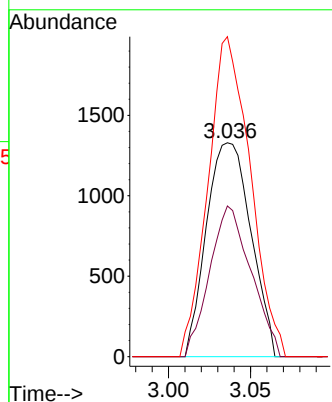
Tgt Ion: 84 Resp: 2505

Ion Ratio Lower Upper

84 100

86 70.5 44.3 82.3

49 149.5 96.0 178.2



#22

cis-1,2-Dichloroethene

Concen: 4.631 ug/L

RT: 4.656 min Scan# 1047

Delta R.T. 0.000 min

Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

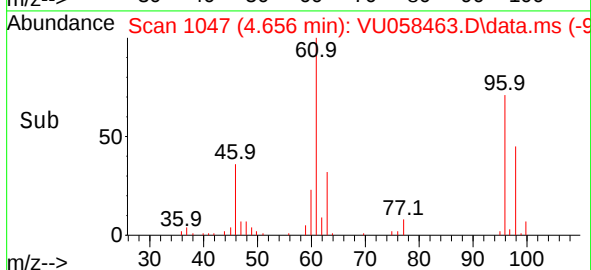
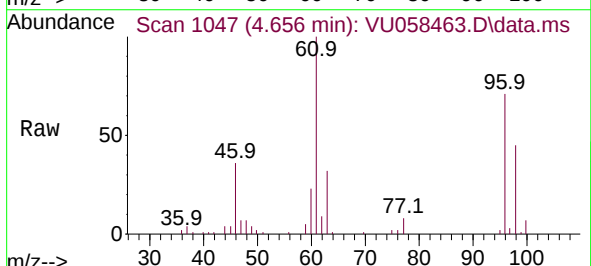
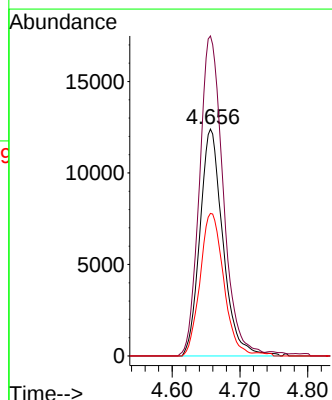
Tgt Ion: 96 Resp: 29246

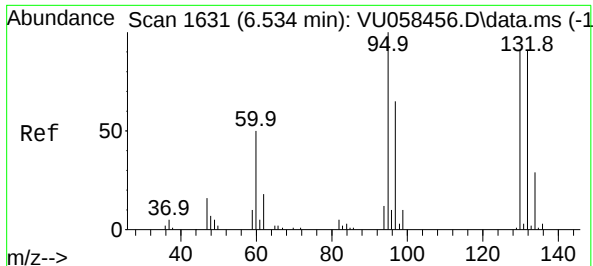
Ion Ratio Lower Upper

96 100

61 141.1 98.1 182.3

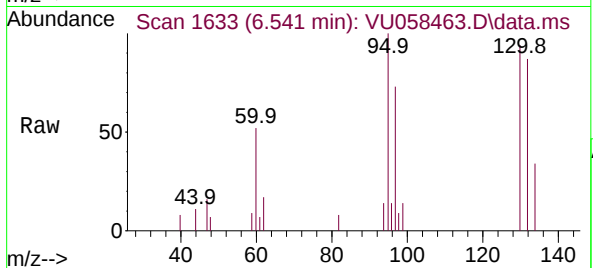
98 62.9 43.6 81.0



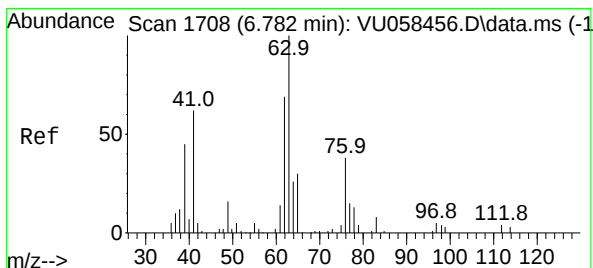
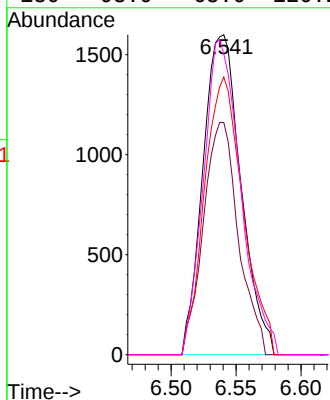
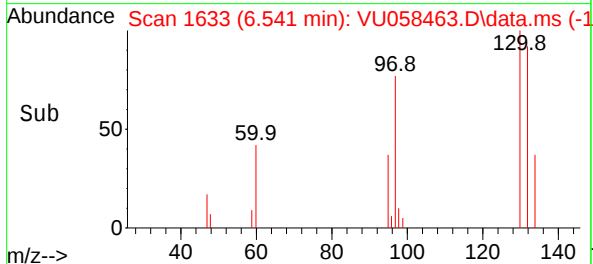


#34
Trichloroethene
Concen: 0.486 ug/L
RT: 6.541 min Scan# 1633
Delta R.T. 0.006 min
Lab File: VU058463.D
Acq: 08 Apr 2024 12:59

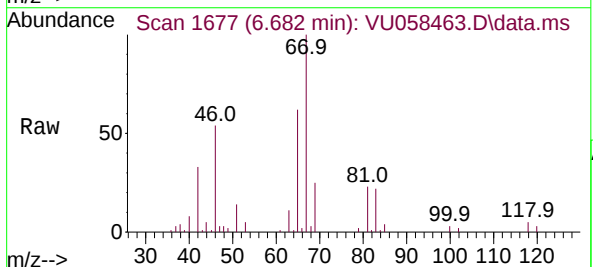
Instrument :
MSVOA_U
ClientSampleId :



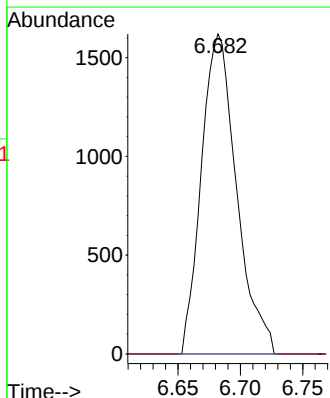
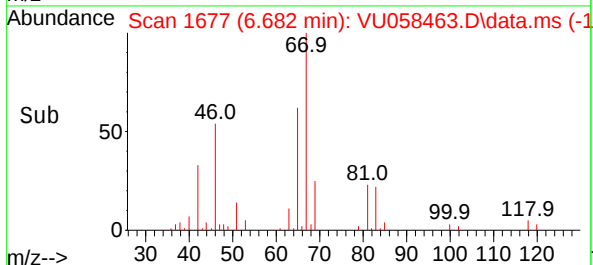
Tgt Ion: 95 Resp: 3263
Ion Ratio Lower Upper
95 100
97 72.6 45.6 84.6
132 86.8 64.8 120.3
130 93.9 68.0 126.2

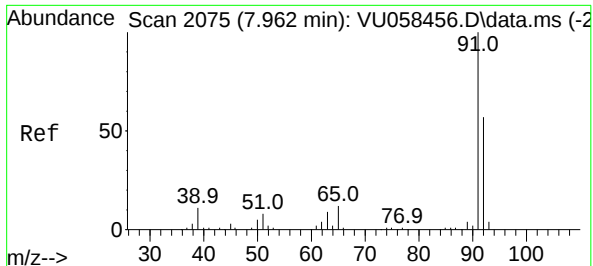


#37
1,2-Dichloropropane
Concen: 0.454 ug/L
RT: 6.682 min Scan# 1677
Delta R.T. -0.100 min
Lab File: VU058463.D
Acq: 08 Apr 2024 12:59



Tgt Ion: 63 Resp: 3181
Ion Ratio Lower Upper
63 100
112 0.0 2.6 4.0#





#42

Toluene

Concen: 3.799 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. 0.000 min

Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

Instrument :

MSVOA_U

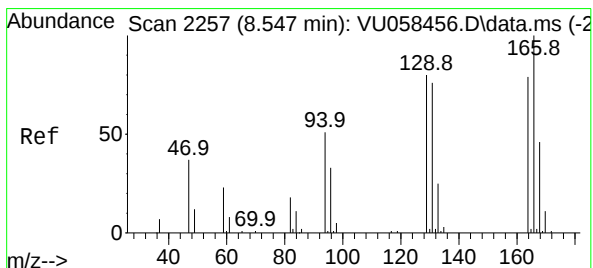
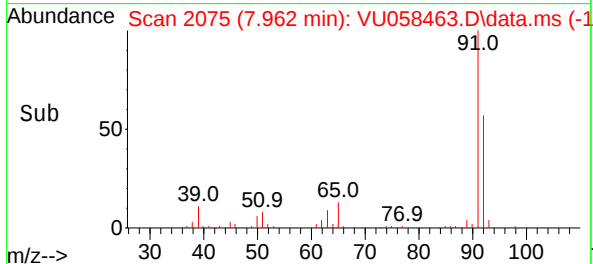
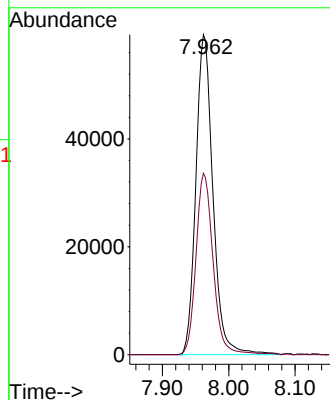
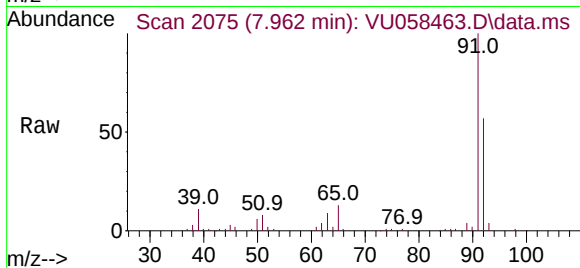
ClientSampleId :

Tgt Ion: 91 Resp: 106083

Ion Ratio Lower Upper

91 100

92 56.7 39.5 73.3



#47

Tetrachloroethene

Concen: 2.818 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. 0.000 min

Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

Tgt Ion: 164 Resp: 13864

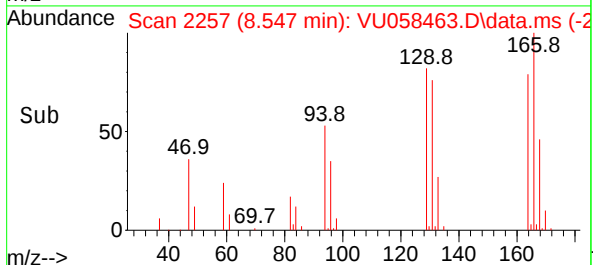
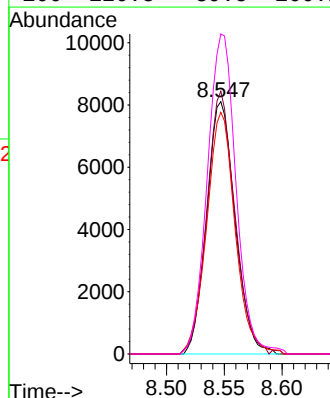
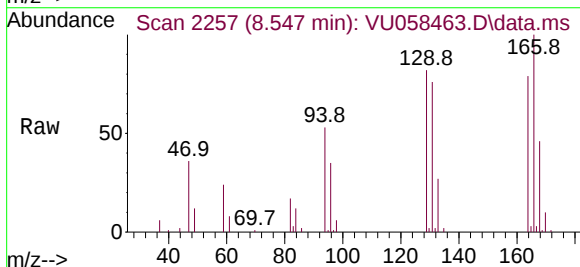
Ion Ratio Lower Upper

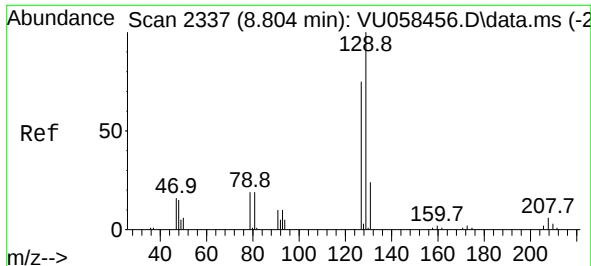
164 100

129 104.1 67.3 125.1

131 95.8 65.5 121.6

166 126.8 89.5 166.1





#49

Dibromochloromethane

Concen: 3.007 ug/L

RT: 8.547 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

Instrument :

MSVOA_U

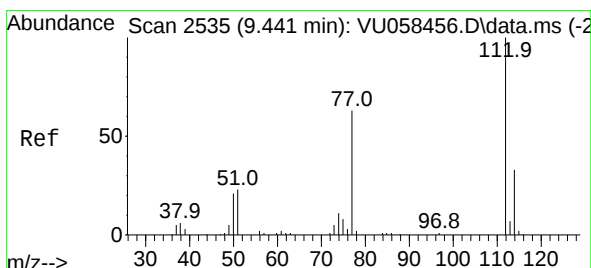
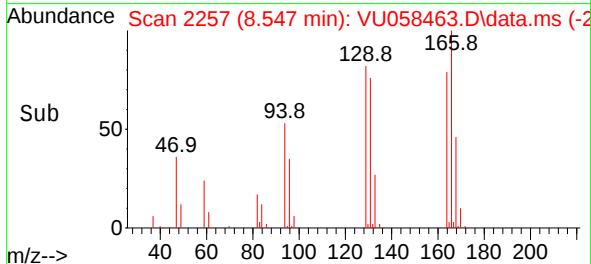
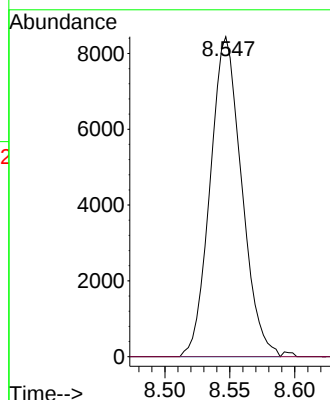
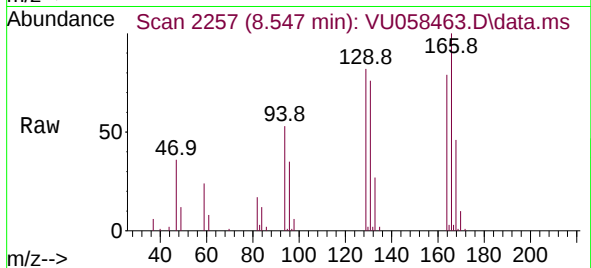
ClientSampleId :

Tgt Ion:129 Resp: 14220

Ion Ratio Lower Upper

129 100

127 0.0 53.5 99.5#



#51

Chlorobenzene

Concen: 0.427 ug/L

RT: 9.441 min Scan# 2535

Delta R.T. 0.000 min

Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

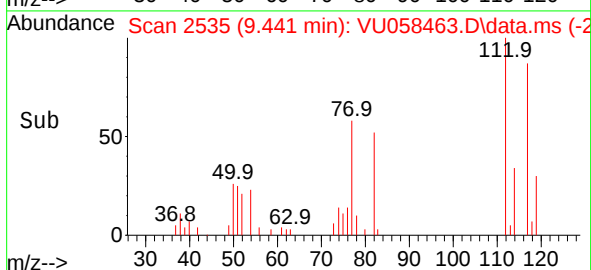
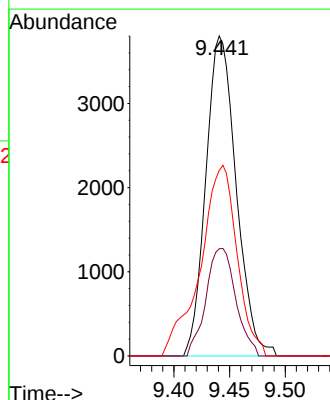
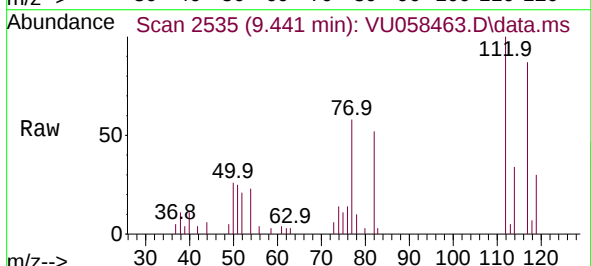
Tgt Ion:112 Resp: 7207

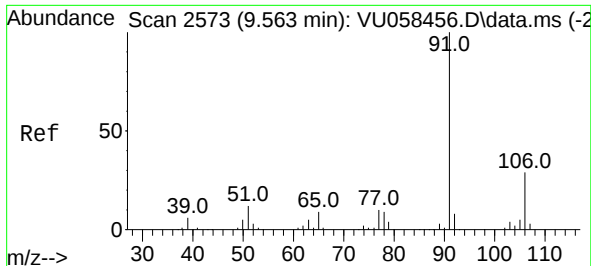
Ion Ratio Lower Upper

112 100

114 33.5 22.4 41.6

77 58.0 50.1 75.1





#52

Ethylbenzene

Concen: 0.145 ug/L

RT: 9.566 min Scan# 2573

Delta R.T. 0.003 min

Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

Instrument :

MSVOA_U

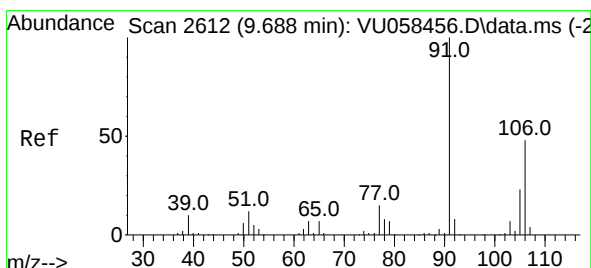
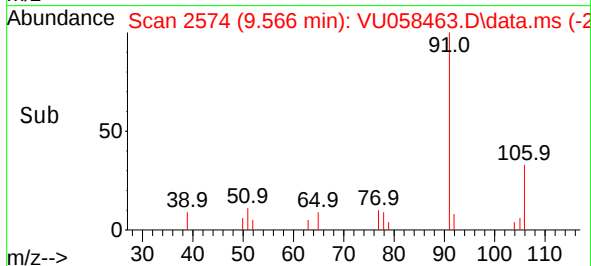
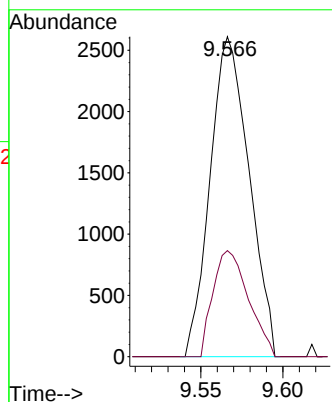
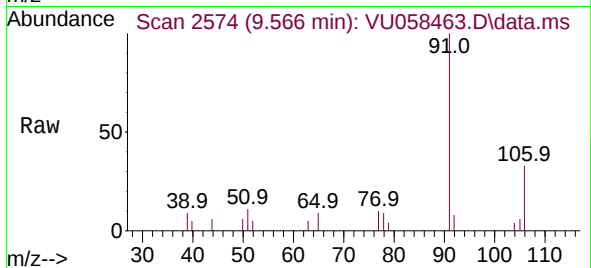
ClientSampleId :

Tgt Ion: 91 Resp: 4303

Ion Ratio Lower Upper

91 100

106 33.2 20.6 38.4



#53

m,p-Xylene

Concen: 0.556 ug/L

RT: 9.688 min Scan# 2612

Delta R.T. 0.000 min

Lab File: VU058463.D

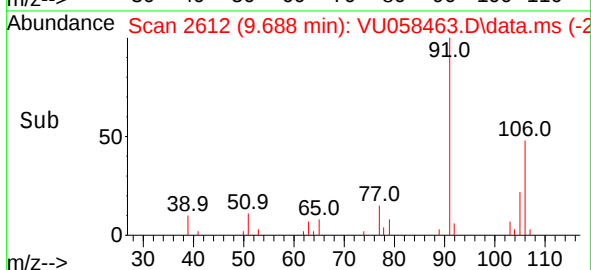
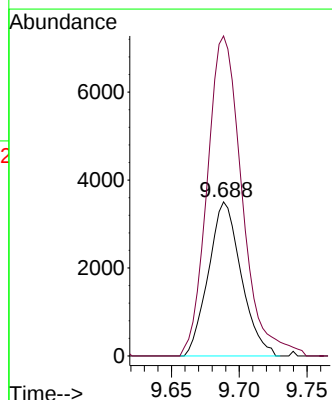
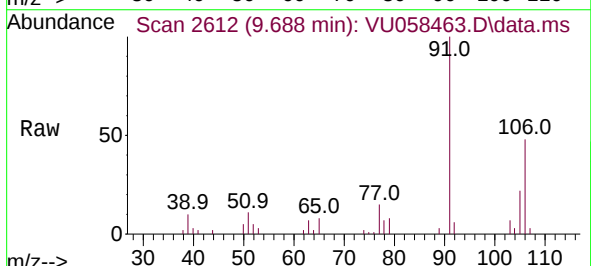
Acq: 08 Apr 2024 12:59

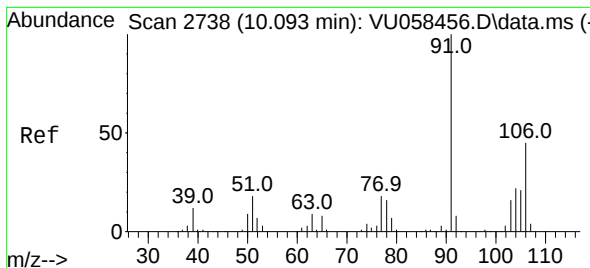
Tgt Ion:106 Resp: 5889

Ion Ratio Lower Upper

106 100

91 207.6 147.8 274.4





#54

o-Xylene

Concen: 0.187 ug/L

RT: 10.100 min Scan# 21

Delta R.T. 0.006 min

Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

Instrument :

MSVOA_U

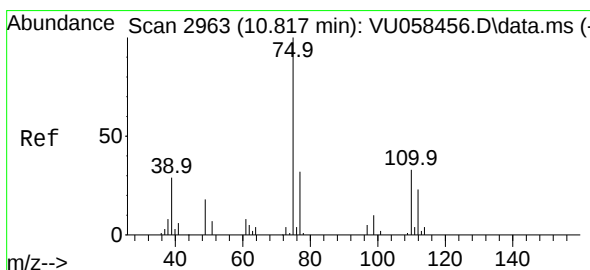
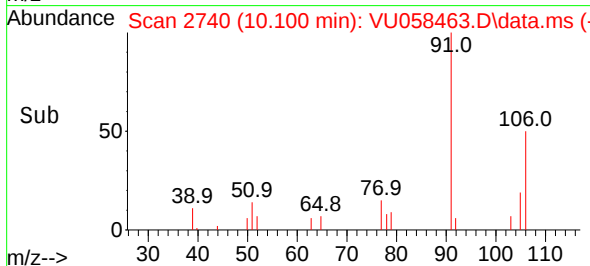
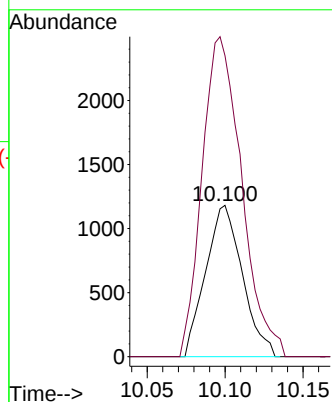
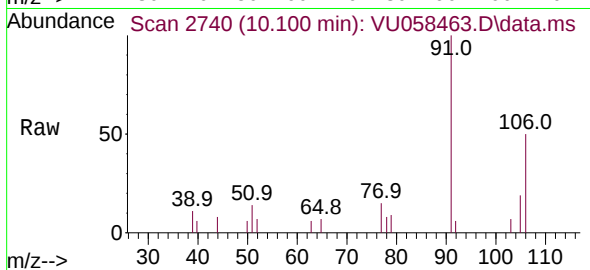
ClientSampleId :

Tgt Ion:106 Resp: 1937

Ion Ratio Lower Upper

106 100

91 198.9 156.9 291.5



#61

1,2,3-Trichloropropane

Concen: 0.290 ug/L

RT: 11.740 min Scan# 3250

Delta R.T. 0.923 min

Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

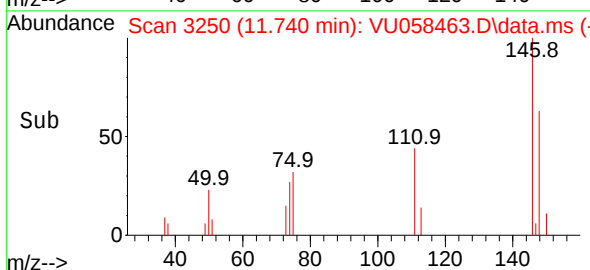
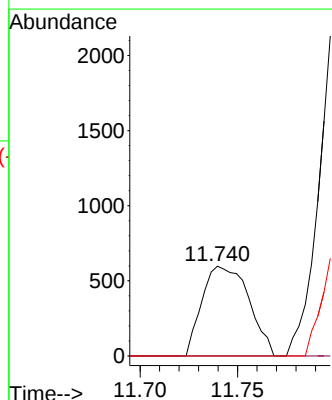
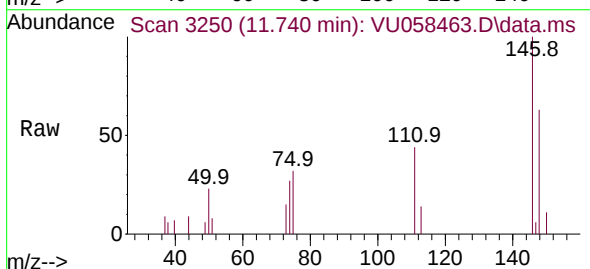
Tgt Ion: 75 Resp: 996

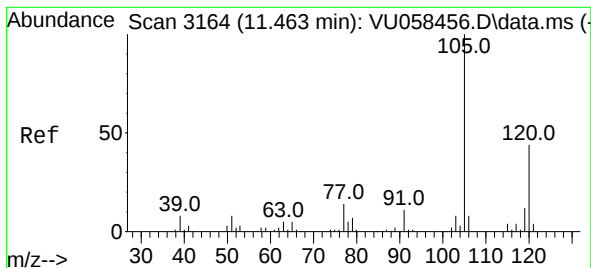
Ion Ratio Lower Upper

75 100

110 0.0 25.8 38.6#

77 28.0 25.1 37.7





#63

1,2,4-Trimethylbenzene

Concen: 0.122 ug/L

RT: 11.466 min Scan# 3165

Delta R.T. 0.003 min

Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

Instrument :

MSVOA_U

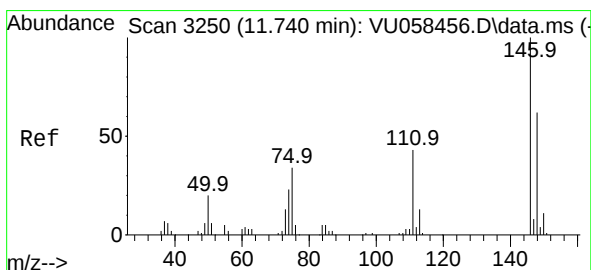
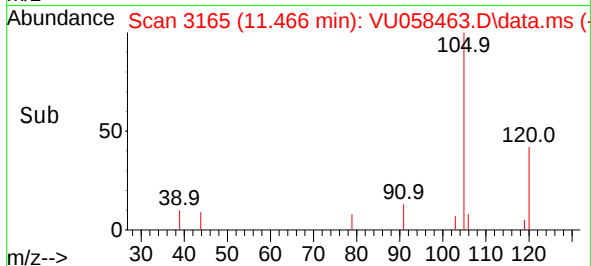
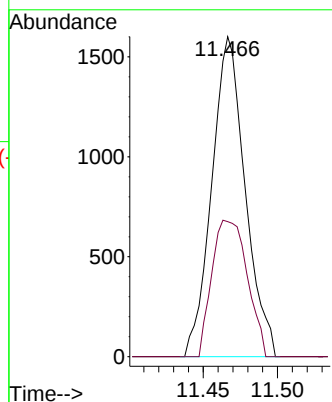
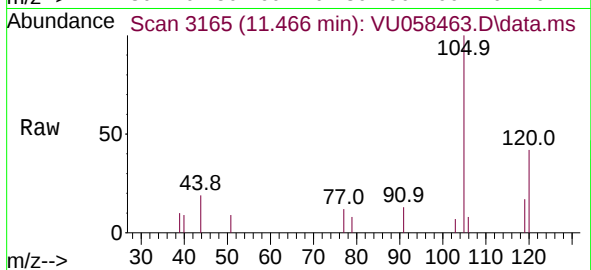
ClientSampleId :

Tgt Ion:105 Resp: 2500

Ion Ratio Lower Upper

105 100

120 45.2 34.7 52.1



#64

1,3-Dichlorobenzene

Concen: 0.272 ug/L

RT: 11.743 min Scan# 3251

Delta R.T. 0.003 min

Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

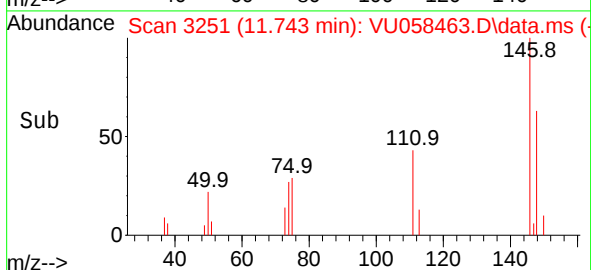
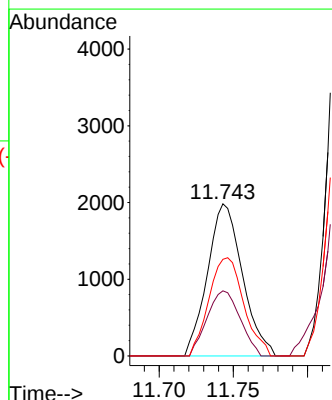
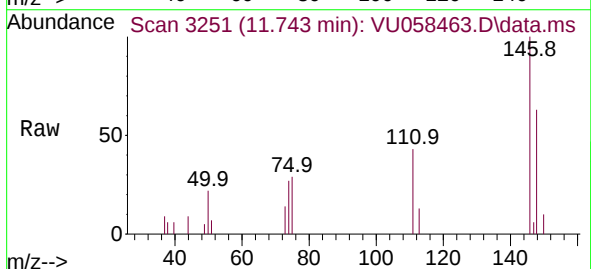
Tgt Ion:146 Resp: 3247

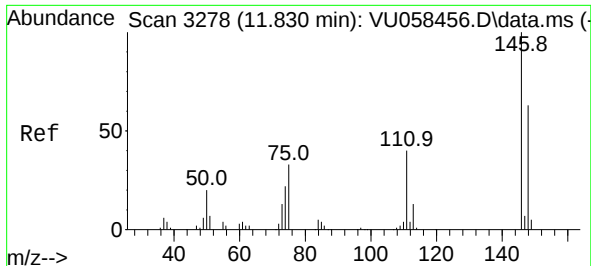
Ion Ratio Lower Upper

146 100

111 42.8 28.8 53.4

148 63.5 44.9 83.3





#65

1,4-Dichlorobenzene

Concen: 1.470 ug/L

RT: 11.833 min Scan# 3278

Delta R.T. 0.003 min

Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

Instrument :

MSVOA_U

ClientSampleId :

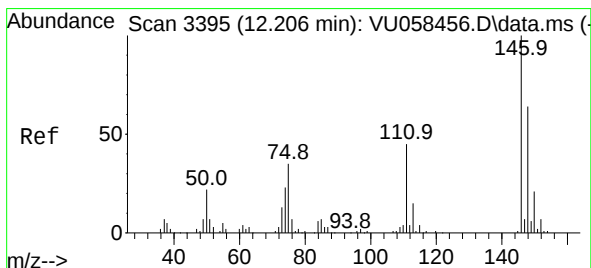
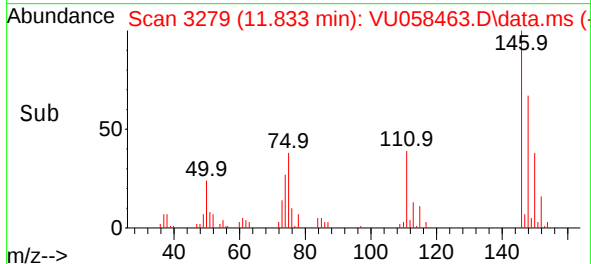
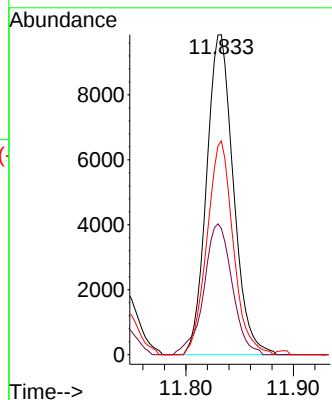
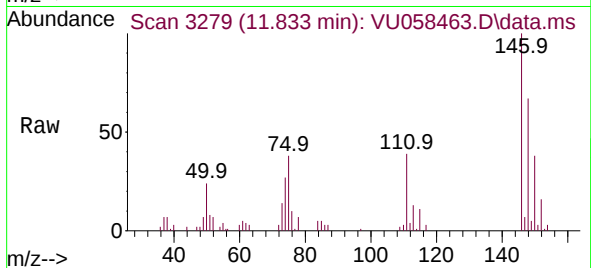
Tgt Ion:146 Resp: 17121

Ion Ratio Lower Upper

146 100

111 39.4 28.8 53.6

148 66.8 45.3 84.1



#67

1,2-Dichlorobenzene

Concen: 0.444 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. 0.000 min

Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

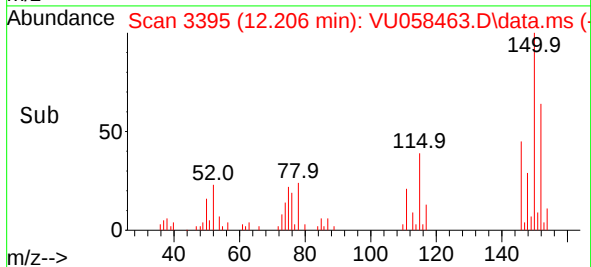
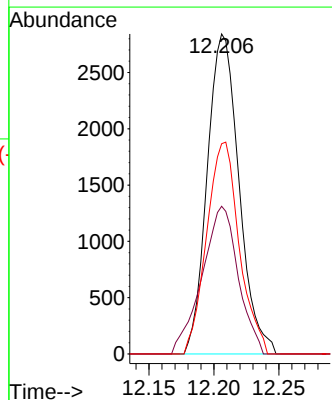
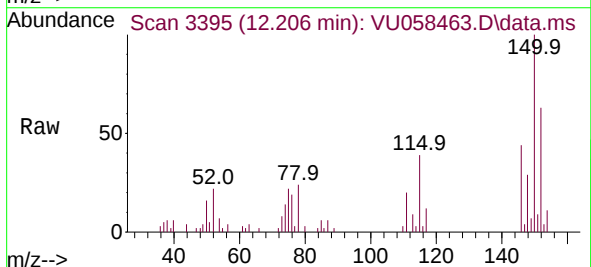
Tgt Ion:146 Resp: 4833

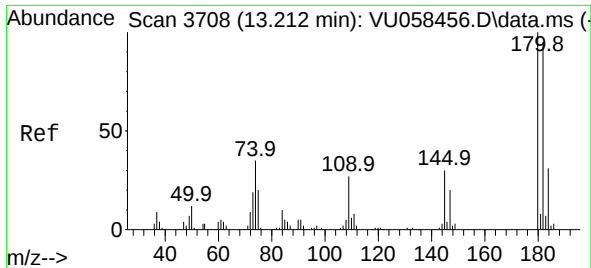
Ion Ratio Lower Upper

146 100

111 46.2 35.0 52.4

148 65.7 52.5 78.7





#69

1,3,5-Trichlorobenzene

Concen: 5.323 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. 0.621 min

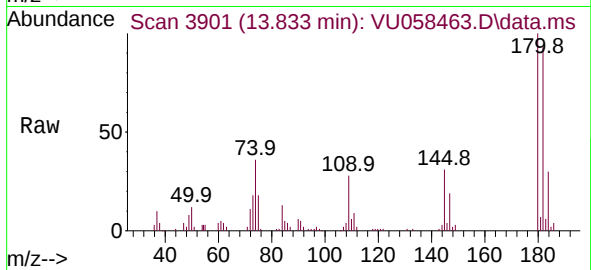
Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:180 Resp: 47059

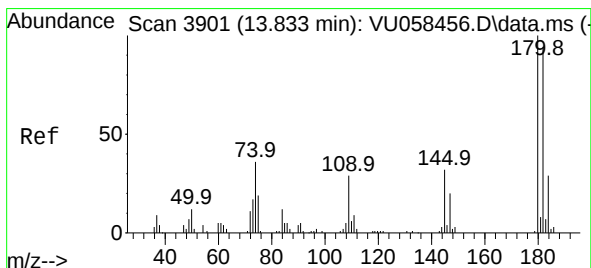
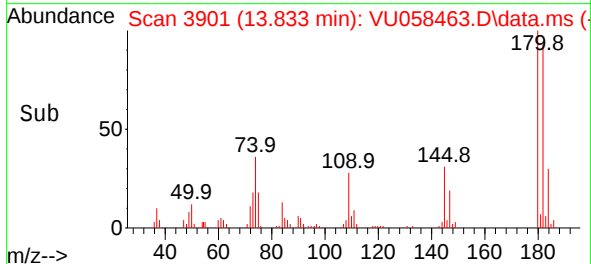
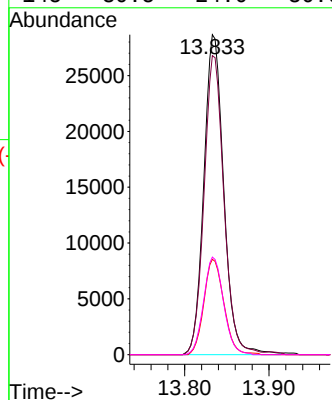
Ion Ratio Lower Upper

180 100

182 93.4 75.7 113.5

184 30.0 24.3 36.5

145 30.5 24.0 36.0



#70

1,2,4-trichlorobenzene

Concen: 6.903 ug/L

RT: 13.833 min Scan# 3901

Delta R.T. 0.000 min

Lab File: VU058463.D

Acq: 08 Apr 2024 12:59

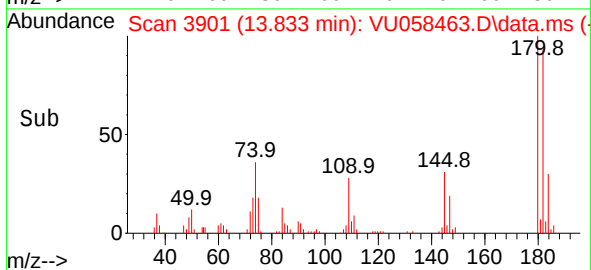
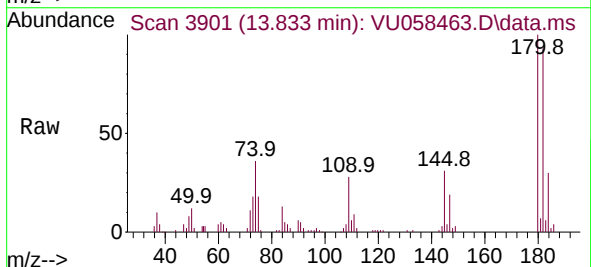
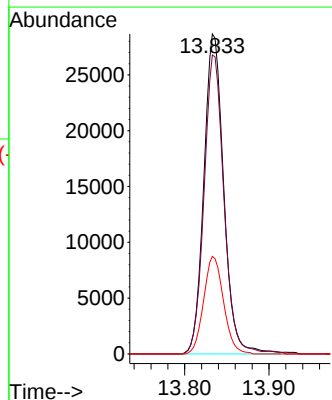
Tgt Ion:180 Resp: 47059

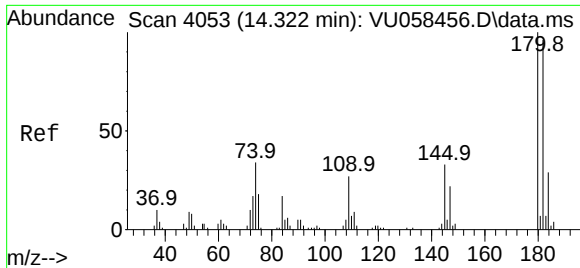
Ion Ratio Lower Upper

180 100

182 93.4 74.4 111.6

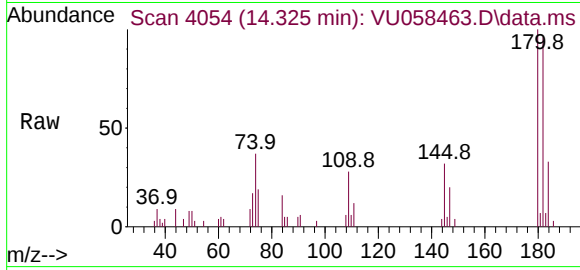
145 30.5 24.1 36.1





#72
 1,2,3-Trichlorobenzene
 Concen: 1.368 ug/L
 RT: 14.325 min Scan# 4054
 Delta R.T. 0.003 min
 Lab File: VU058463.D
 Acq: 08 Apr 2024 12:59

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	180	Resp:	7703
Ion Ratio	Lower	Upper	
180	100		
182	93.4	75.9	113.9
145	32.0	25.2	37.8

