

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU020525\
 Data File : VU063155.D
 Acq On : 05 Feb 2025 13:22
 Operator : MD/SY
 Sample : Q1226-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Feb 06 07:28:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR020425WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Feb 06 07:25:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.238	114	85917	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.405	117	80984	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.801	152	36703	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	21656	4.407	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	88.200%
7) Chloroethane-d5	1.901	69	21412	4.694	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.800%
11) 1,1-Dichloroethene-d2	2.557	65	9655	4.401	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	88.000%
20) 2-Butanone-d5	4.605	46	70534	43.597	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	87.200%
24) Chloroform-d	5.049	84	50940	4.688	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.800%
26) 1,2-Dichloroethane-d4	5.689	65	26882	4.810	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.200%
32) Benzene-d6	5.714	84	100252	4.746	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.000%
36) 1,2-Dichloropropane-d6	6.676	67	33807	4.854	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.000%
41) Toluene-d8	7.888	98	83520	4.476	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.600%
43) trans-1,3-Dichloroprop...	8.171	79	11151	4.273	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.400%
46) 2-Hexanone-d5	8.621	63	56097	42.713	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	85.420%
56) 1,1,2,2-Tetrachloroeth...	10.743	84	27723	4.510	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.200%
66) 1,2-Dichlorobenzene-d4	12.183	152	31675	5.168	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.400%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.599	62	125182	15.166	ug/L	99
12) 1,1-Dichloroethene	2.570	96	25515	4.569	ug/L	95
14) Carbon disulfide	2.785	76	1865	0.095	ug/L #	74
16) Methylene chloride	3.029	84	137370	20.563	ug/L	100
18) trans-1,2-Dichloroethene	3.338	96	55866	9.356	ug/L	97
22) cis-1,2-Dichloroethene	4.650	96	90525	13.589	ug/L	99
27) 1,2-Dichloroethane	5.779	62	125243	16.088	ug/L	99
29) 1,1,1-Trichloroethane	5.299	97	75492	7.875	ug/L	99
31) Carbon tetrachloride	5.512	117	118404	14.639	ug/L	99
33) Benzene	5.759	78	328544	12.328	ug/L	100
34) Trichloroethene	6.531	95	87593	12.941	ug/L	98
37) 1,2-Dichloropropane	6.775	63	147339	20.729	ug/L	99
42) Toluene	7.959	91	63630	2.284	ug/L	99
45) 1,1,2-Trichloroethane	8.386	97	93485	17.809	ug/L	98
47) Tetrachloroethene	8.541	164	65491	13.777	ug/L	99
49) Dibromochloromethane	8.541	129	64268	11.631	ug/L #	11
51) Chlorobenzene	9.434	112	284471	16.918	ug/L	98
52) Ethylbenzene	9.560	91	666922	22.890	ug/L	99
53) m,p-Xylene	9.682	106	149311	14.207	ug/L	99

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Response via : Initial Calibration

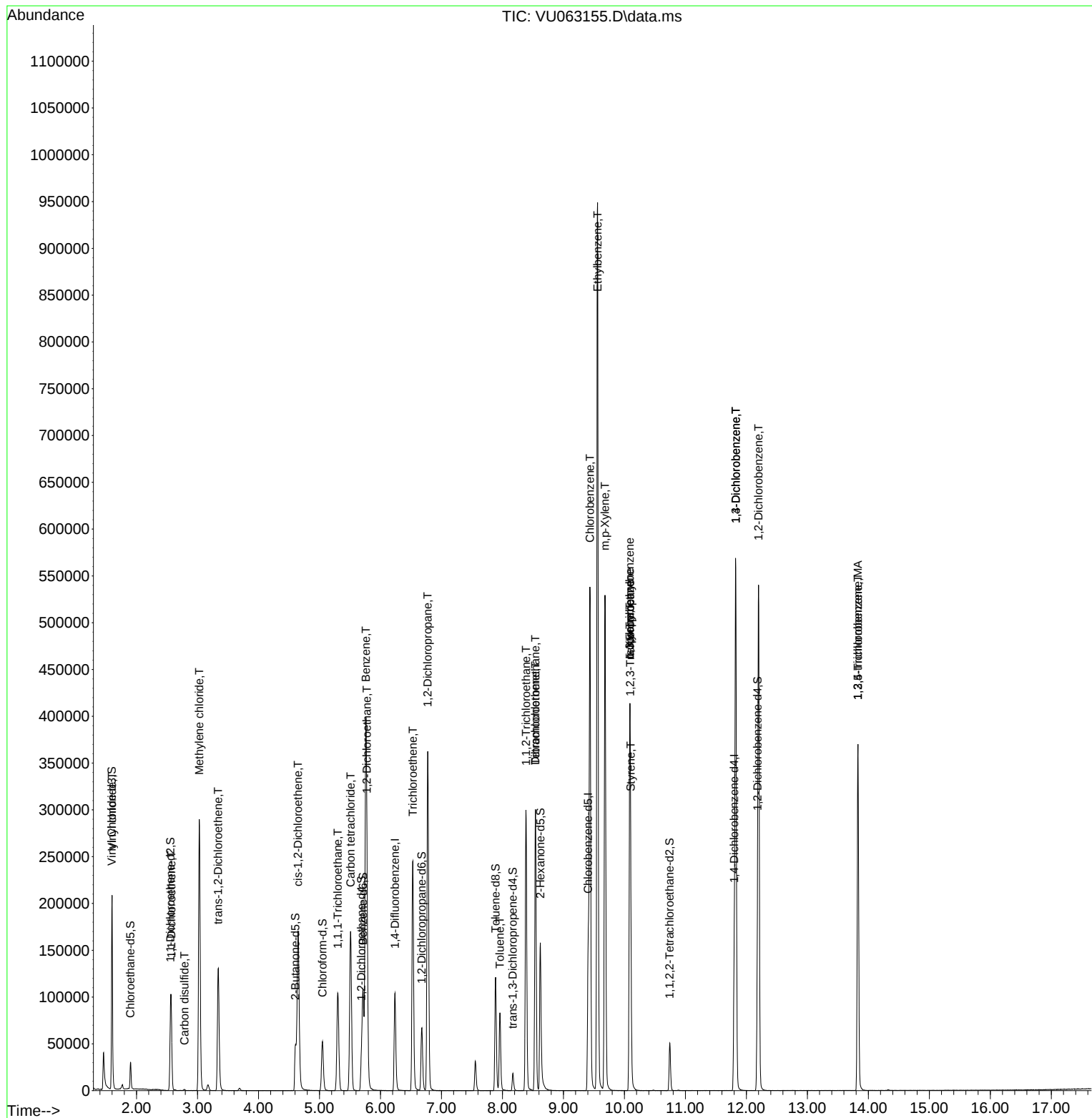
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	10.090	106	96869	9.295	ug/L	100
55) Styrene	10.103	104	67448	3.932	ug/L	91
60) Isopropylbenzene	10.090	105	47089	1.807	ug/L #	3
61) 1,2,3-Trichloropropane	10.097	75	5143	1.161	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.090	105	47089	2.290	ug/L #	29
64) 1,3-Dichlorobenzene	11.827	146	223036	18.887	ug/L	100
65) 1,4-Dichlorobenzene	11.827	146	223036	18.786	ug/L	98
67) 1,2-Dichlorobenzene	12.200	146	207808	18.832	ug/L	98
69) 1,3,5-Trichlorobenzene	13.830	180	115404	14.303	ug/L	100
70) 1,2,4-trichlorobenzene	13.830	180	115404	18.179	ug/L	99

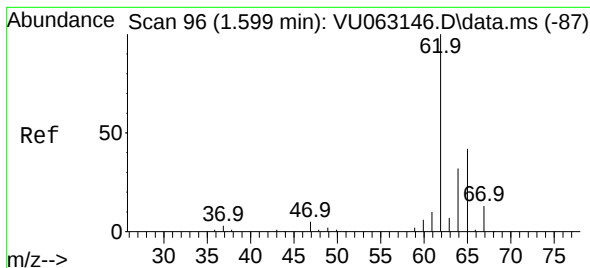
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 15.166 ug/L

RT: 1.599 min Scan# 96

Delta R.T. 0.000 min

Lab File: VU063155.D

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Instrument :

MSVOA_U

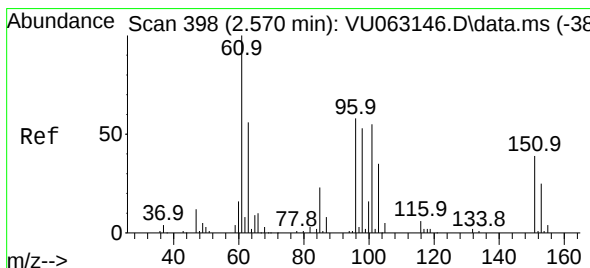
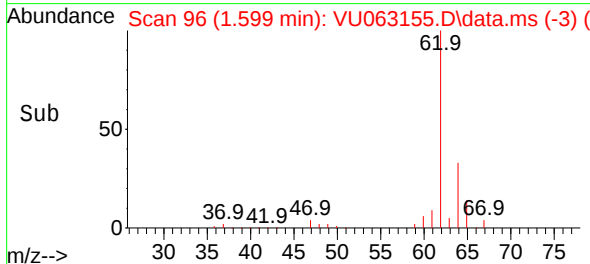
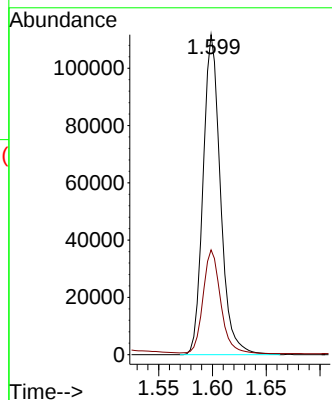
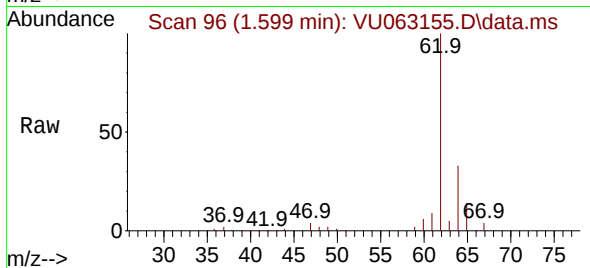
ClientSampleId :

Tgt Ion: 62 Resp: 125182

Ion Ratio Lower Upper

62 100

64 32.8 23.2 43.0



#12

1,1-Dichloroethene

Concen: 4.569 ug/L

RT: 2.570 min Scan# 398

Delta R.T. 0.000 min

Lab File: VU063155.D

Acq: 05 Feb 2025 13:22

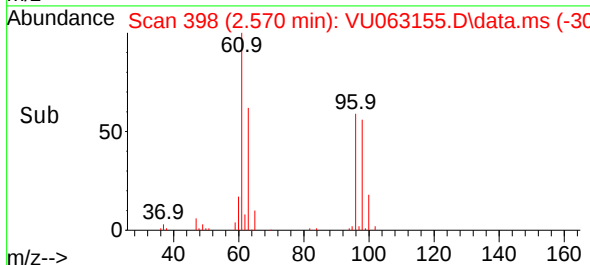
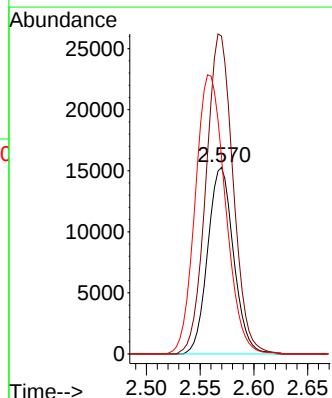
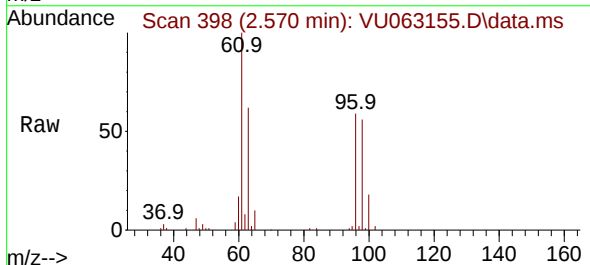
Tgt Ion: 96 Resp: 25515

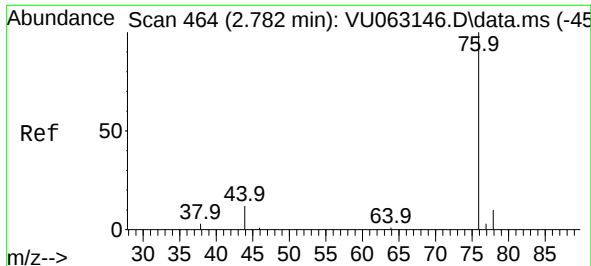
Ion Ratio Lower Upper

96 100

61 170.4 121.9 226.3

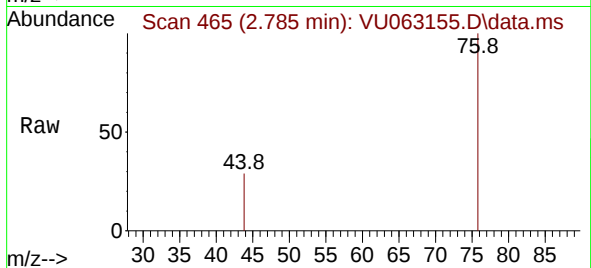
63 105.7 80.3 149.1



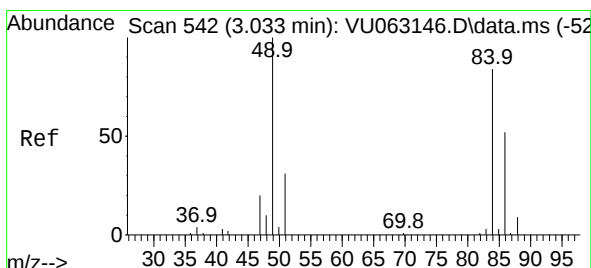
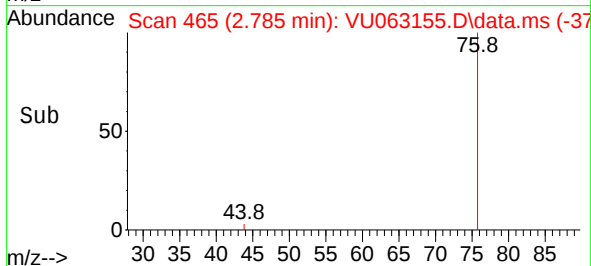
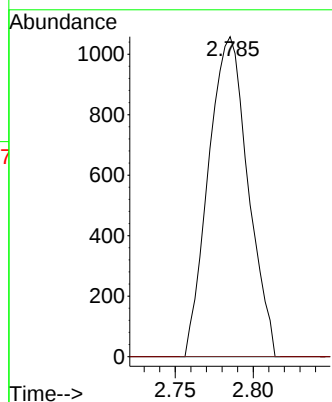


#14
Carbon disulfide
Concen: 0.095 ug/L
RT: 2.785 min Scan# 41
Delta R.T. 0.003 min
Lab File: VU063155.D
Acq: 05 Feb 2025 13:22

Instrument :
MSVOA_U
ClientSampleId :

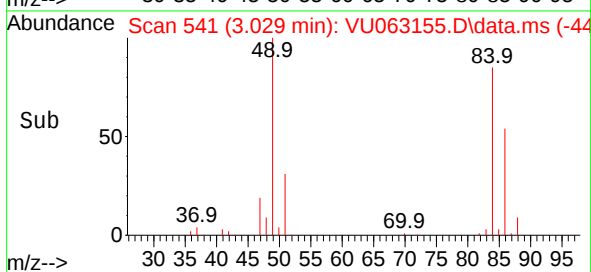
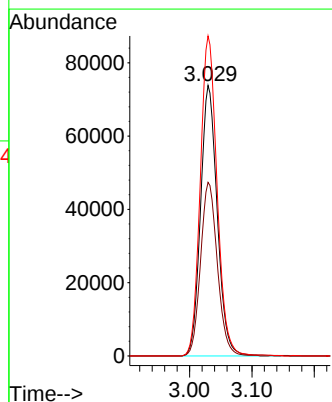
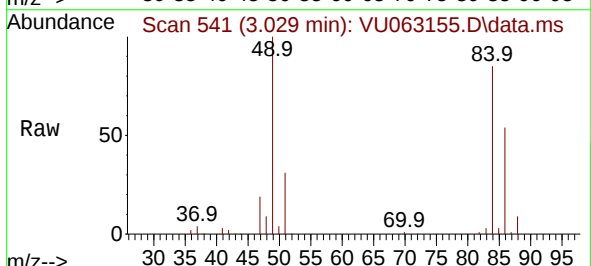


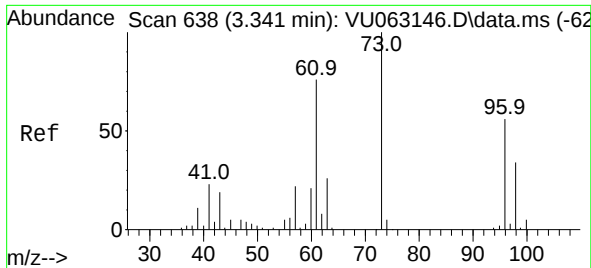
Tgt Ion: 76 Resp: 1865
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#



#16
Methylene chloride
Concen: 20.563 ug/L
RT: 3.029 min Scan# 541
Delta R.T. -0.003 min
Lab File: VU063155.D
Acq: 05 Feb 2025 13:22

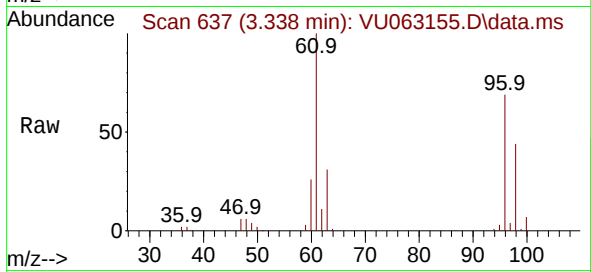
Tgt Ion: 84 Resp: 137370
Ion Ratio Lower Upper
84 100
86 64.2 45.0 83.6
49 118.3 82.4 153.0



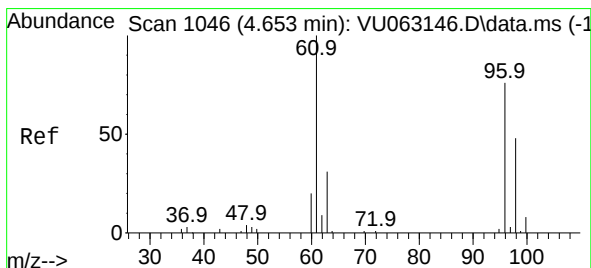
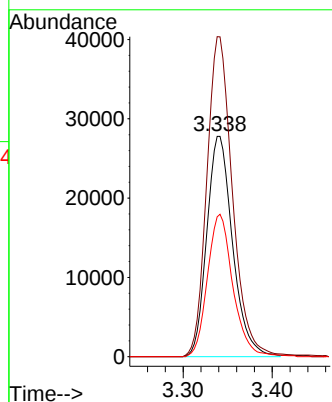
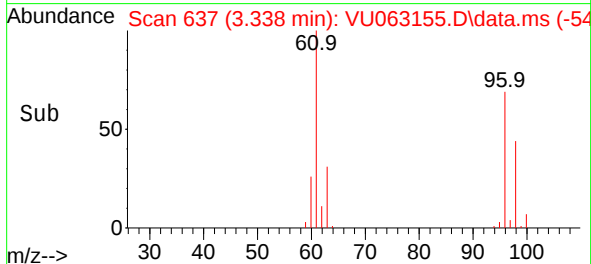


#18
trans-1,2-Dichloroethene
Concen: 9.356 ug/L
RT: 3.338 min Scan# 61
Delta R.T. -0.003 min
Lab File: VU063155.D
Acq: 05 Feb 2025 13:22

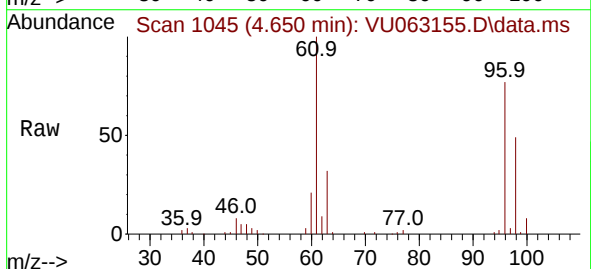
Instrument :
MSVOA_U
ClientSampleId :



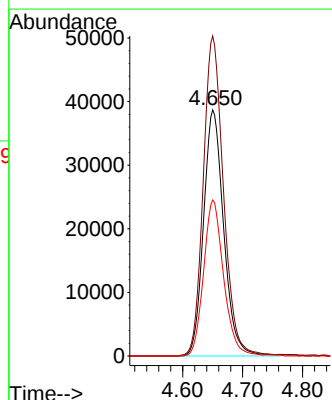
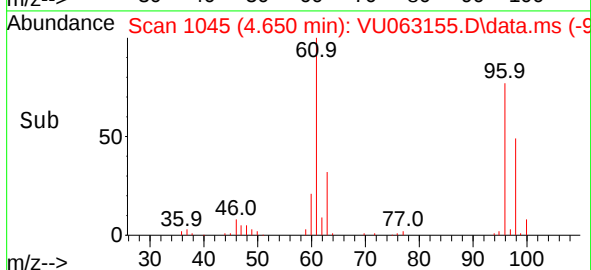
Tgt Ion: 96 Resp: 55866
Ion Ratio Lower Upper
96 100
61 145.2 99.2 184.2
98 63.4 43.2 80.2

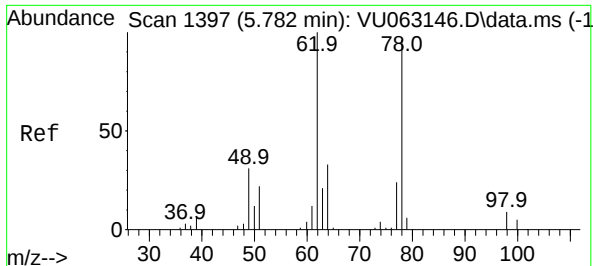


#22
cis-1,2-Dichloroethene
Concen: 13.589 ug/L
RT: 4.650 min Scan# 1045
Delta R.T. -0.003 min
Lab File: VU063155.D
Acq: 05 Feb 2025 13:22



Tgt Ion: 96 Resp: 90525
Ion Ratio Lower Upper
96 100
61 130.0 91.8 170.6
98 63.4 44.4 82.4

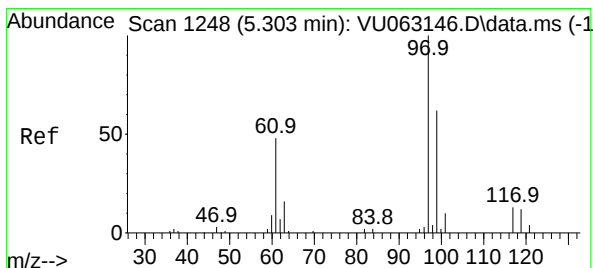
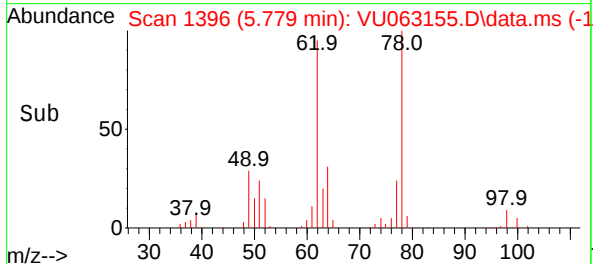
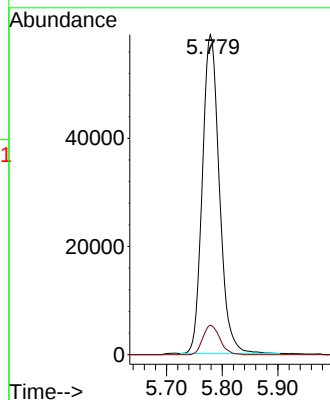
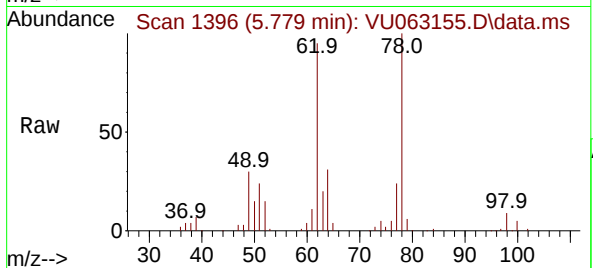




#27
1,2-Dichloroethane
Concen: 16.088 ug/L
RT: 5.779 min Scan# 11
Delta R.T. -0.003 min
Lab File: VU063155.D
Acq: 05 Feb 2025 13:22

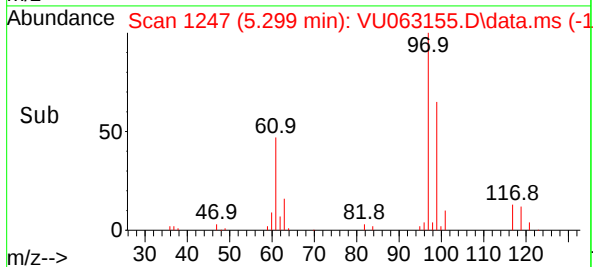
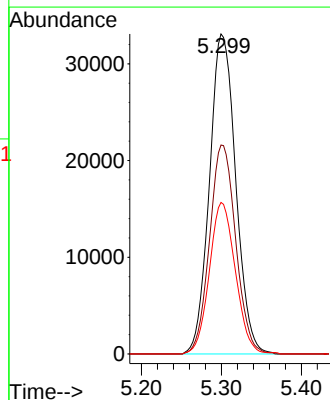
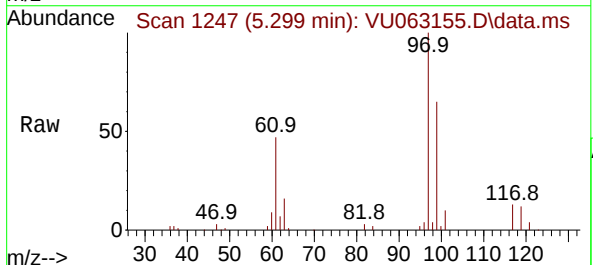
Instrument :
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ClientSampleId :

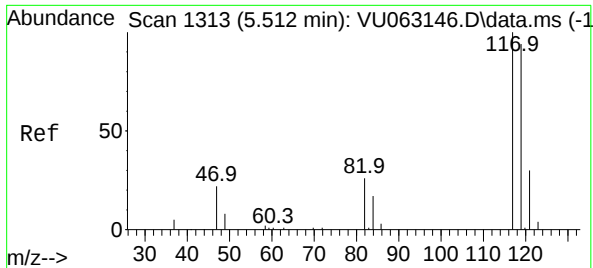
Tgt Ion: 62 Resp: 125243
Ion Ratio Lower Upper
62 100
98 9.2 7.2 10.8



#29
1,1,1-Trichloroethane
Concen: 7.875 ug/L
RT: 5.299 min Scan# 1247
Delta R.T. -0.003 min
Lab File: VU063155.D
Acq: 05 Feb 2025 13:22

Tgt Ion: 97 Resp: 75492
Ion Ratio Lower Upper
97 100
99 65.1 51.5 77.3
61 46.9 38.5 57.7

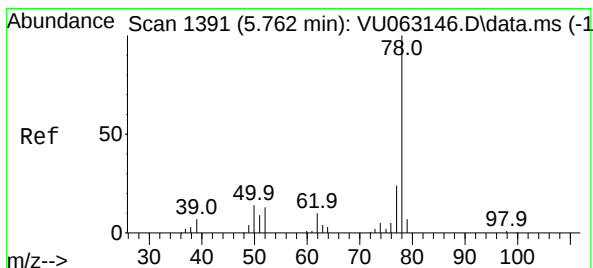
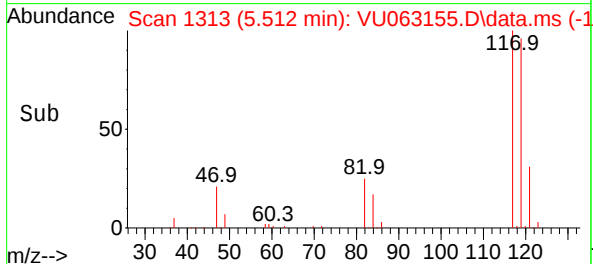
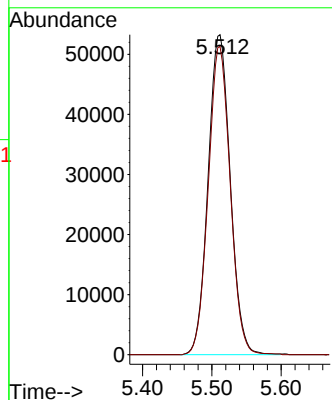
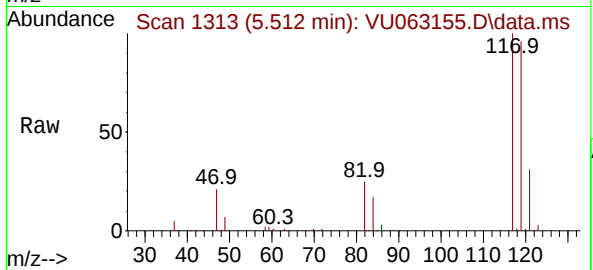




#31
Carbon tetrachloride
Concen: 14.639 ug/L
RT: 5.512 min Scan# 1313
Delta R.T. 0.000 min
Lab File: VU063155.D
Acq: 05 Feb 2025 13:22

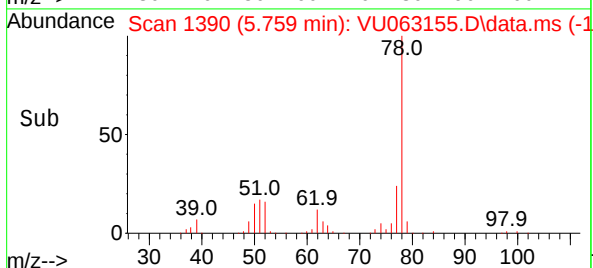
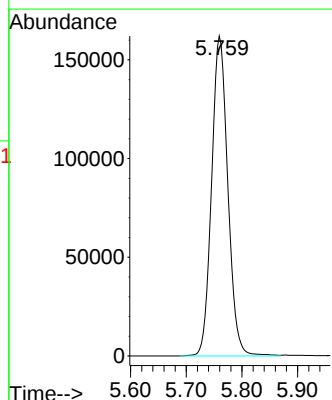
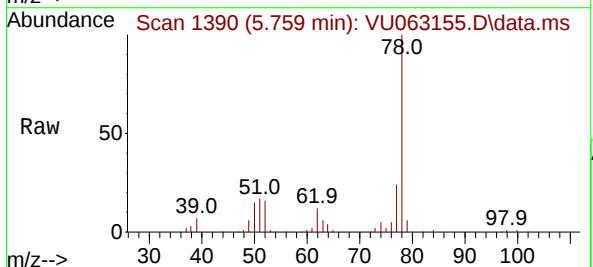
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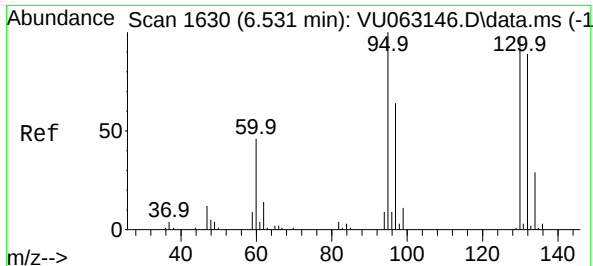
Tgt Ion:117 Resp: 118404
Ion Ratio Lower Upper
117 100
119 95.4 77.0 115.4



#33
Benzene
Concen: 12.328 ug/L
RT: 5.759 min Scan# 1390
Delta R.T. -0.003 min
Lab File: VU063155.D
Acq: 05 Feb 2025 13:22

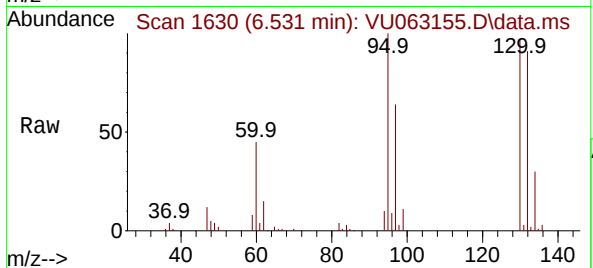
Tgt Ion: 78 Resp: 328544



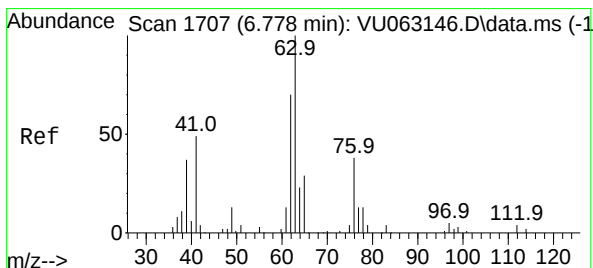
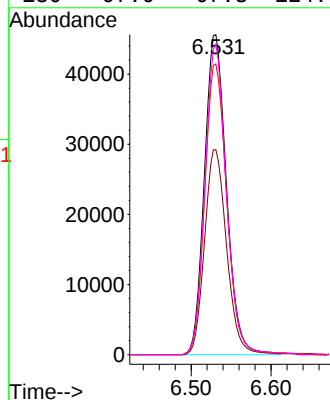
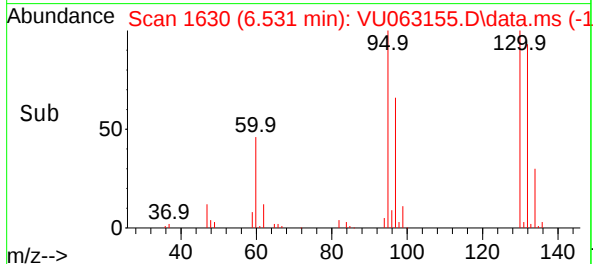


#34
Trichloroethene
Concen: 12.941 ug/L
RT: 6.531 min Scan# 1
Delta R.T. 0.000 min
Lab File: VU063155.D
Acq: 05 Feb 2025 13:22

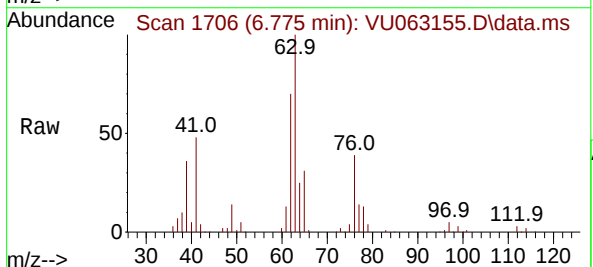
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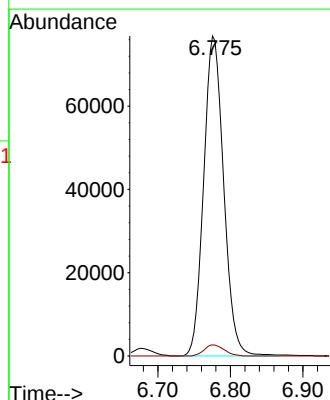
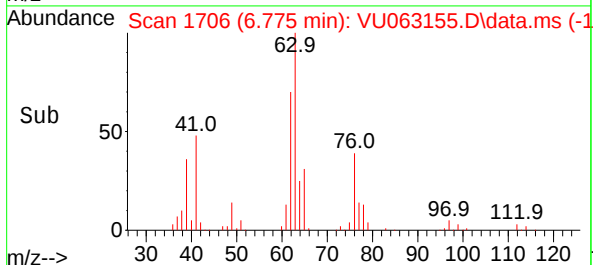
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Ion Ratio Lower Upper
95 100
97 64.1 46.7 86.7
132 90.9 62.4 115.8
130 97.0 67.3 124.9

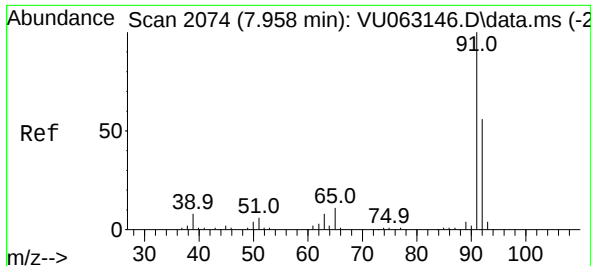


#37
1,2-Dichloropropane
Concen: 20.729 ug/L
RT: 6.775 min Scan# 1706
Delta R.T. -0.003 min
Lab File: VU063155.D
Acq: 05 Feb 2025 13:22



Tgt Ion: 63 Resp: 147339
Ion Ratio Lower Upper
63 100
112 3.5 2.6 4.0





#42

Toluene

Concen: 2.284 ug/L

RT: 7.959 min Scan# 2074

Delta R.T. 0.000 min

Lab File: VU063155.D

Acq: 05 Feb 2025 13:22

Instrument :

MSVOA_U

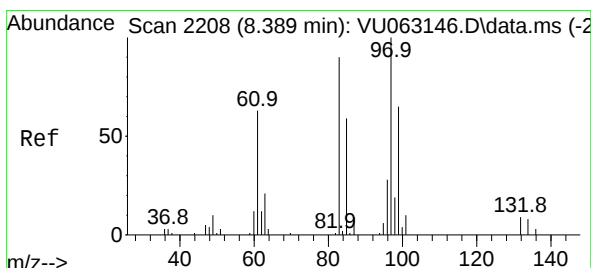
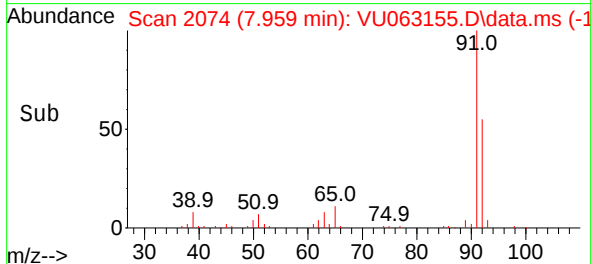
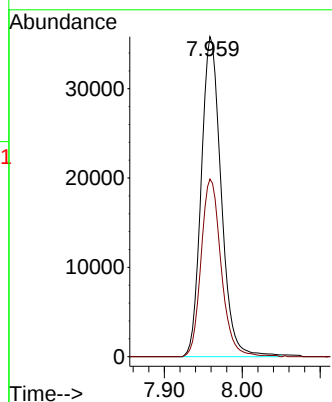
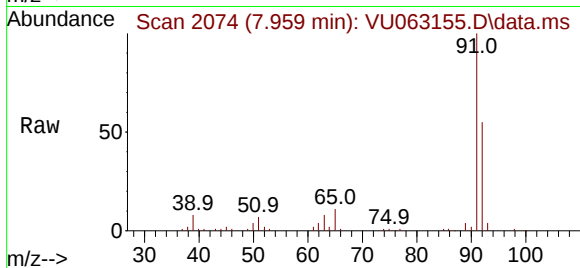
ClientSampleId :

Tgt Ion: 91 Resp: 63630

Ion Ratio Lower Upper

91 100

92 55.5 39.5 73.4



#45

1,1,2-Trichloroethane

Concen: 17.809 ug/L

RT: 8.386 min Scan# 2207

Delta R.T. -0.003 min

Lab File: VU063155.D

Acq: 05 Feb 2025 13:22

Tgt Ion: 97 Resp: 93485

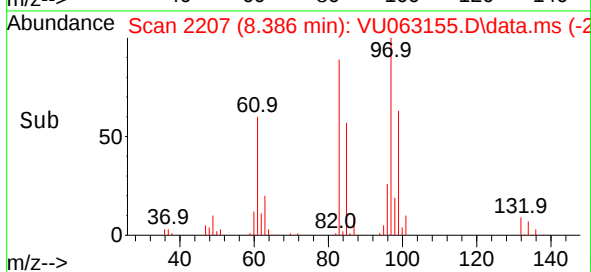
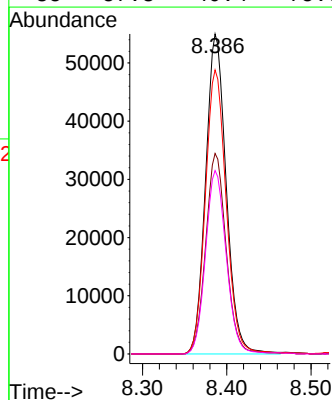
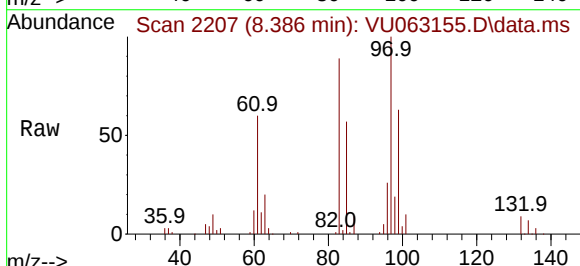
Ion Ratio Lower Upper

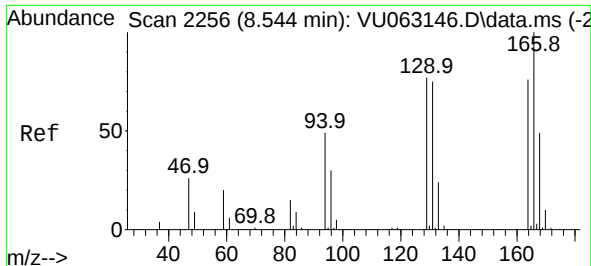
97 100

99 62.7 42.2 78.4

83 88.8 62.9 116.9

85 57.3 40.4 75.0





#47

Tetrachloroethene

Concen: 13.777 ug/L

RT: 8.541 min Scan# 2255

Delta R.T. -0.003 min

Lab File: VU063155.D

Acq: 05 Feb 2025 13:22

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:164 Resp: 65491

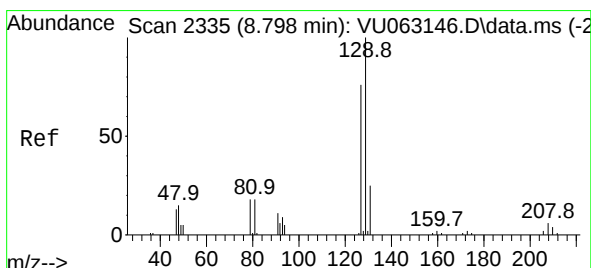
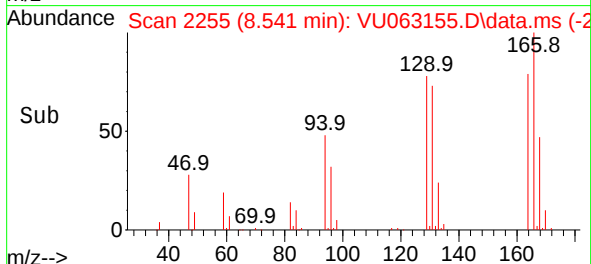
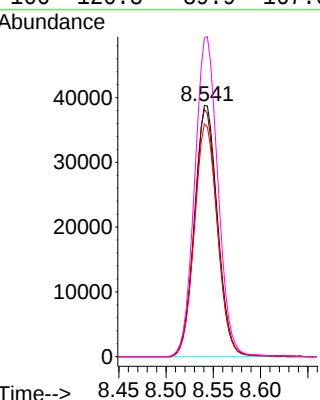
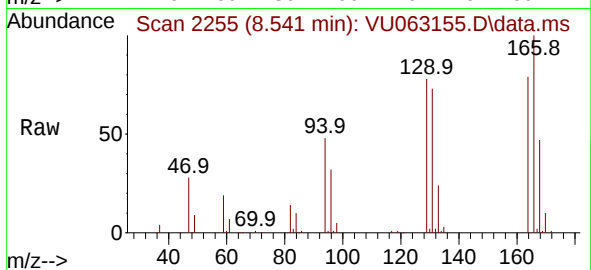
Ion Ratio Lower Upper

164 100

129 98.5 68.6 127.4

131 92.6 66.5 123.5

166 126.8 89.9 167.0



#49

Dibromochloromethane

Concen: 11.631 ug/L

RT: 8.541 min Scan# 2255

Delta R.T. -0.257 min

Lab File: VU063155.D

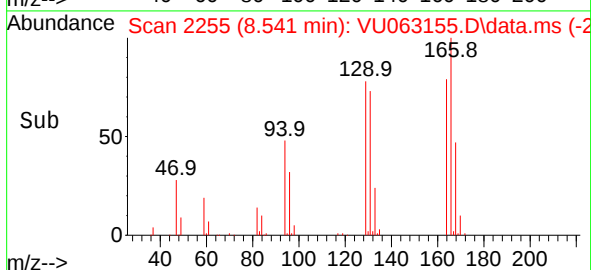
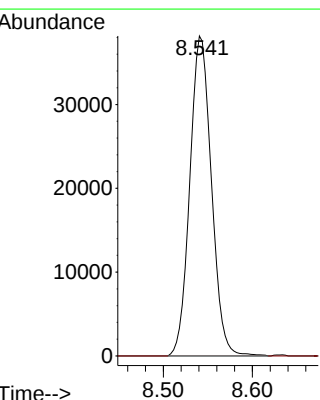
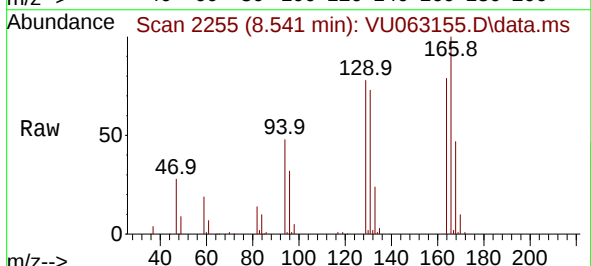
Acq: 05 Feb 2025 13:22

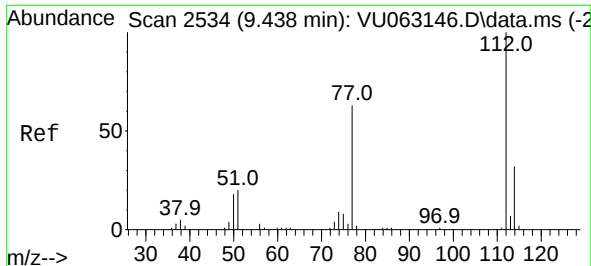
Tgt Ion:129 Resp: 64268

Ion Ratio Lower Upper

129 100

127 0.0 53.8 99.8#





#51

Chlorobenzene

Concen: 16.918 ug/L

RT: 9.434 min Scan# 2534

Delta R.T. -0.003 min

Lab File: VU063155.D

Acq: 05 Feb 2025 13:22

Instrument :

MSVOA_U

ClientSampleId :

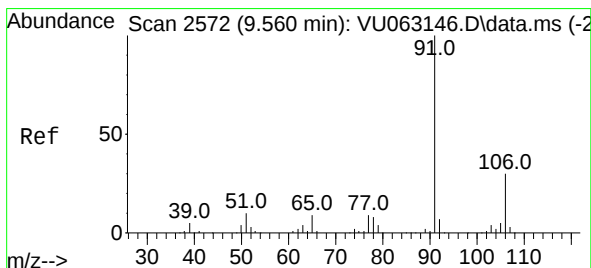
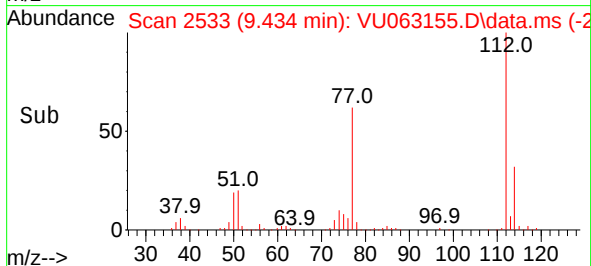
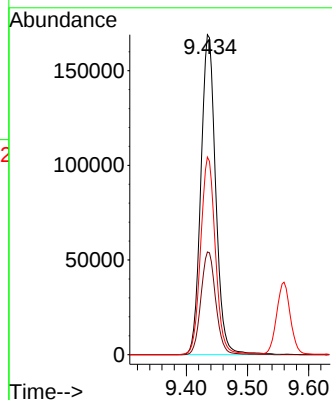
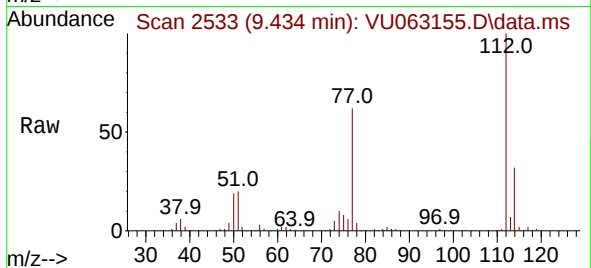
Tgt Ion:112 Resp: 284471

Ion Ratio Lower Upper

112 100

114 32.1 22.6 42.0

77 61.7 50.8 76.2



#52

Ethylbenzene

Concen: 22.890 ug/L

RT: 9.560 min Scan# 2572

Delta R.T. 0.000 min

Lab File: VU063155.D

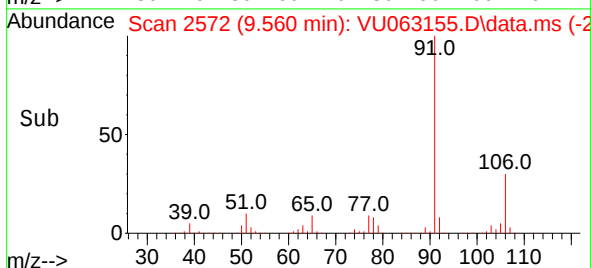
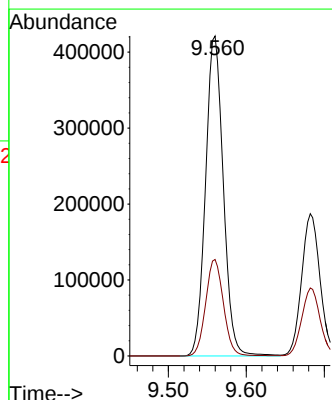
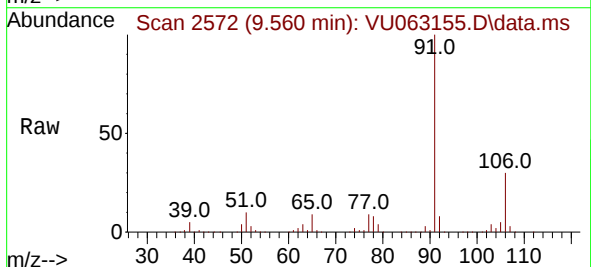
Acq: 05 Feb 2025 13:22

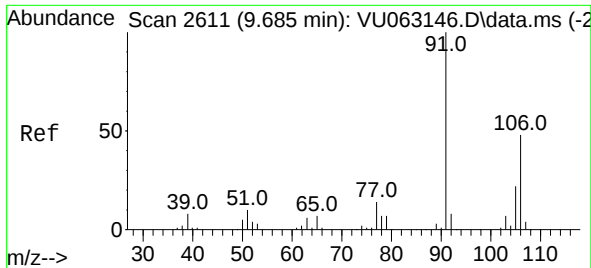
Tgt Ion: 91 Resp: 666922

Ion Ratio Lower Upper

91 100

106 30.2 21.3 39.6





#53

m,p-Xylene

Concen: 14.207 ug/L

RT: 9.682 min Scan# 2

Delta R.T. -0.003 min

Lab File: VU063155.D

Acq: 05 Feb 2025 13:22

Instrument :

MSVOA_U

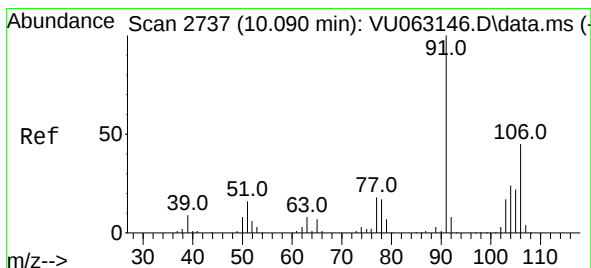
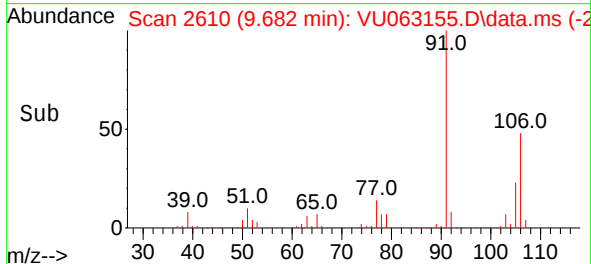
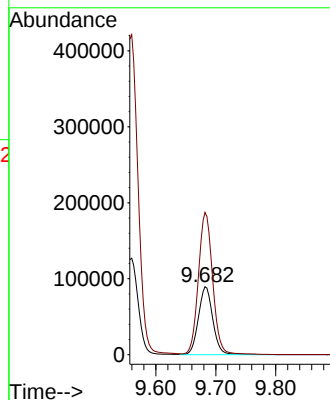
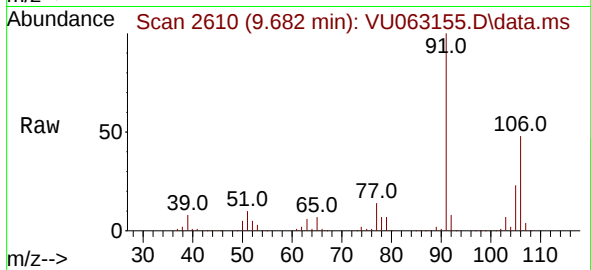
ClientSampleId :

Tgt Ion:106 Resp: 149311

Ion Ratio Lower Upper

106 100

91 209.3 147.3 273.6



#54

o-Xylene

Concen: 9.295 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. 0.000 min

Lab File: VU063155.D

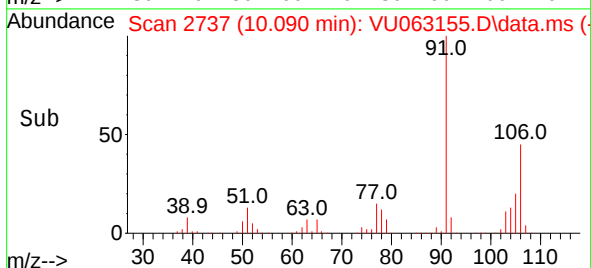
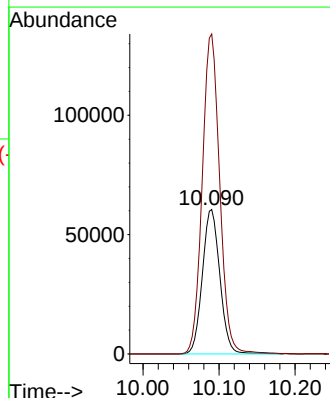
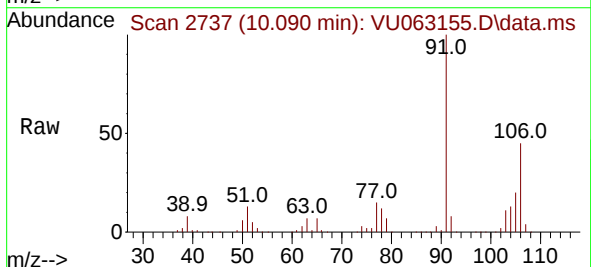
Acq: 05 Feb 2025 13:22

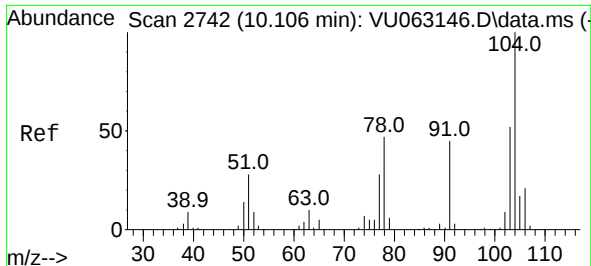
Tgt Ion:106 Resp: 96869

Ion Ratio Lower Upper

106 100

91 221.3 155.4 288.6





#55

Styrene

Concen: 3.932 ug/L

RT: 10.103 min Scan# 21

Delta R.T. -0.003 min

Lab File: VU063155.D

Acq: 05 Feb 2025 13:22

Instrument :

MSVOA_U

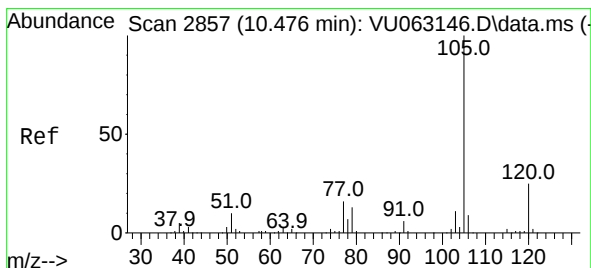
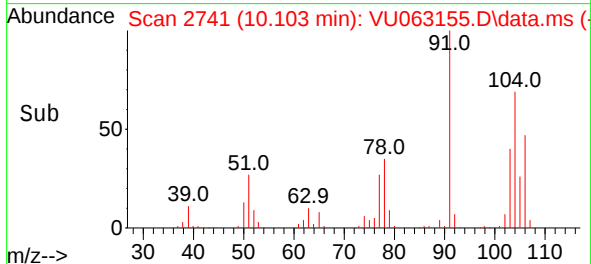
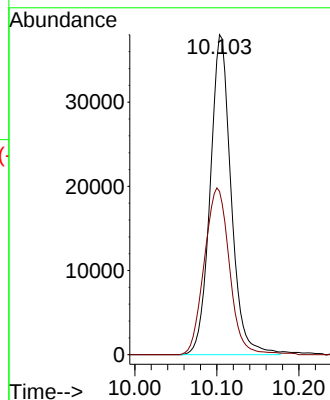
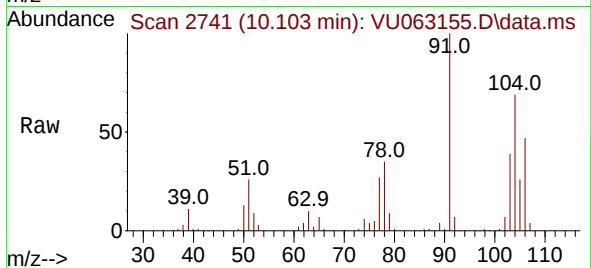
ClientSampleId :

Tgt Ion:104 Resp: 67448

Ion Ratio Lower Upper

104 100

78 51.0 31.6 58.6



#60

Isopropylbenzene

Concen: 1.807 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. -0.386 min

Lab File: VU063155.D

Acq: 05 Feb 2025 13:22

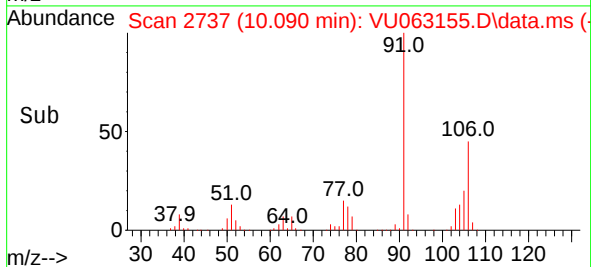
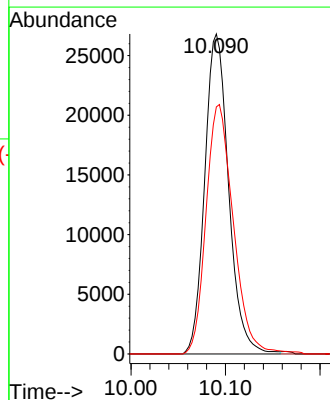
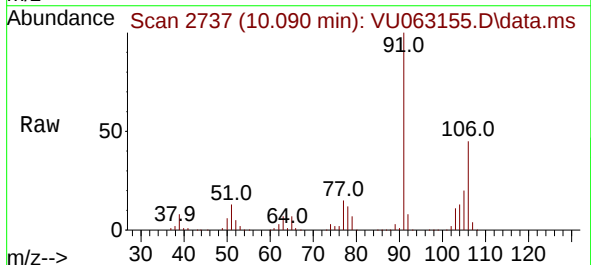
Tgt Ion:105 Resp: 47089

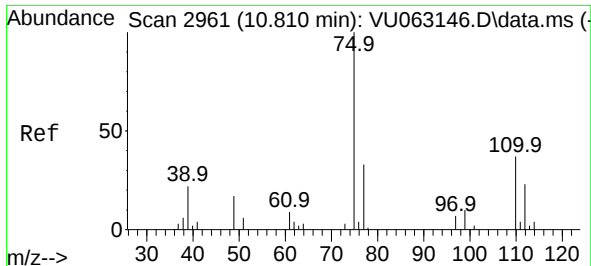
Ion Ratio Lower Upper

105 100

120 0.0 20.8 31.2#

77 89.2 13.3 19.9#





#61

1,2,3-Trichloropropane

Concen: 1.161 ug/L

RT: 10.097 min Scan# 21

Delta R.T. -0.714 min

Lab File: VU063155.D

Acq: 05 Feb 2025 13:22

Instrument :

MSVOA_U

ClientSampleId :

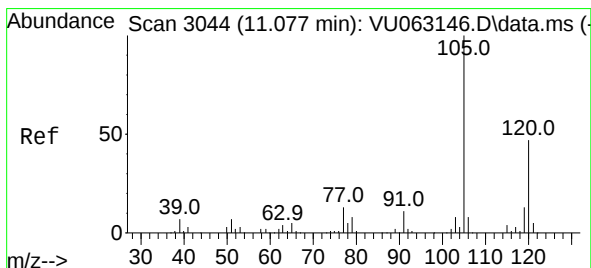
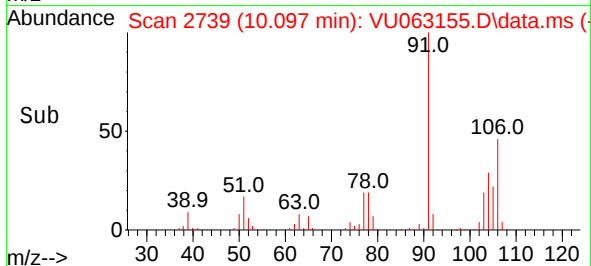
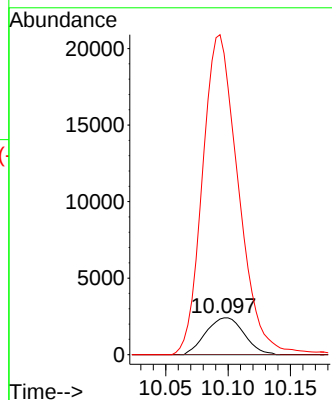
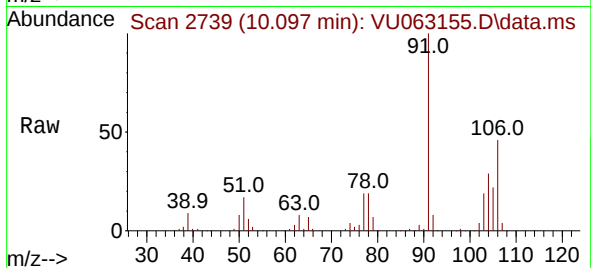
Tgt Ion: 75 Resp: 5143

Ion Ratio Lower Upper

75 100

110 0.0 27.4 41.0#

77 816.3 26.3 39.5#



#62

1,3,5-Trimethylbenzene

Concen: 2.290 ug/L

RT: 10.090 min Scan# 2737

Delta R.T. -0.987 min

Lab File: VU063155.D

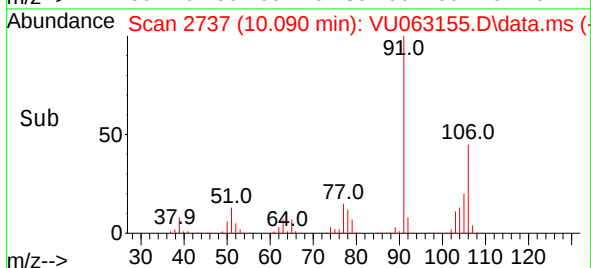
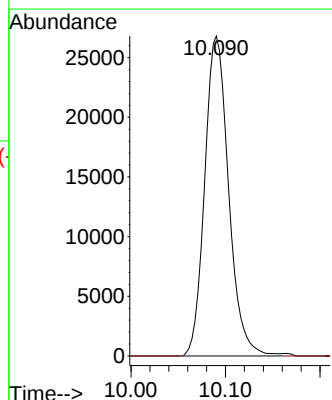
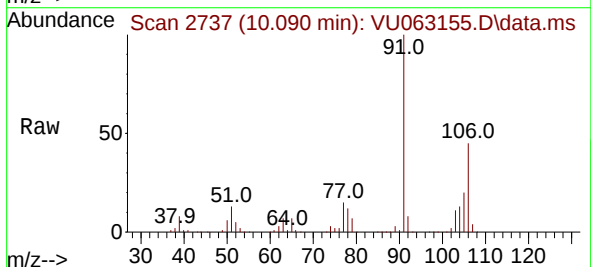
Acq: 05 Feb 2025 13:22

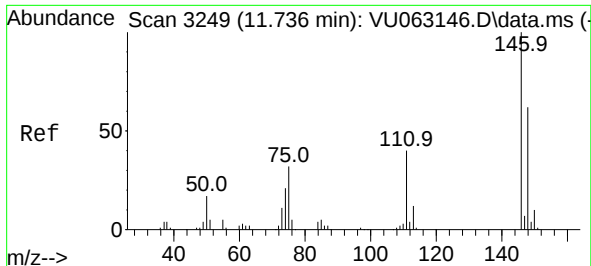
Tgt Ion:105 Resp: 47089

Ion Ratio Lower Upper

105 100

120 0.0 37.8 56.8#





#64

1,3-Dichlorobenzene

Concen: 18.887 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. 0.090 min

Lab File: VU063155.D

Acq: 05 Feb 2025 13:22

Instrument :

MSVOA_U

ClientSampleId :

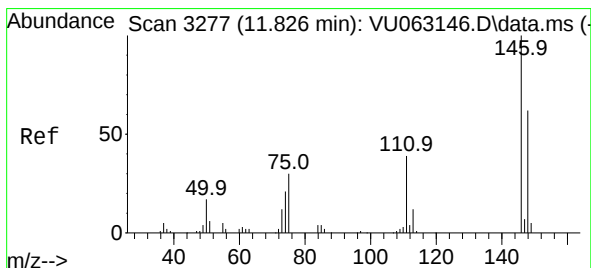
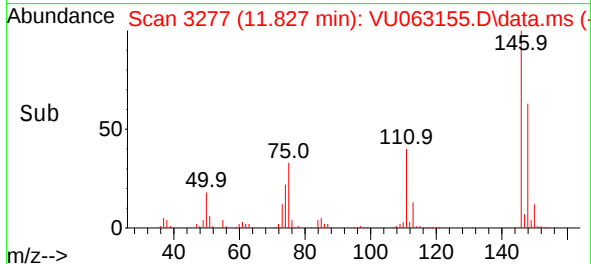
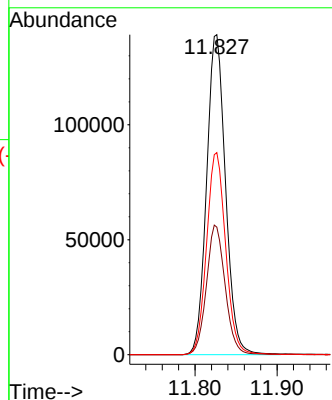
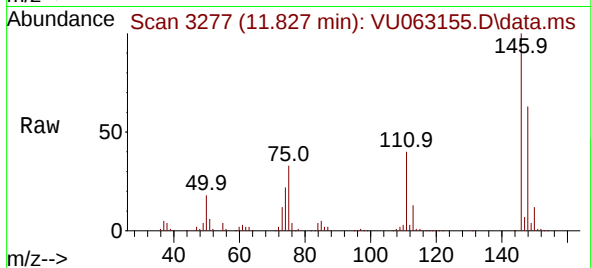
Tgt Ion:146 Resp: 223036

Ion Ratio Lower Upper

146 100

111 39.8 27.9 51.7

148 63.2 44.6 82.8



#65

1,4-Dichlorobenzene

Concen: 18.786 ug/L

RT: 11.827 min Scan# 3277

Delta R.T. 0.000 min

Lab File: VU063155.D

Acq: 05 Feb 2025 13:22

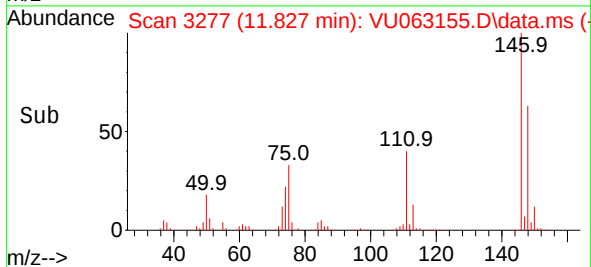
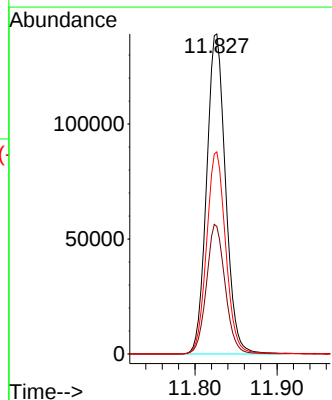
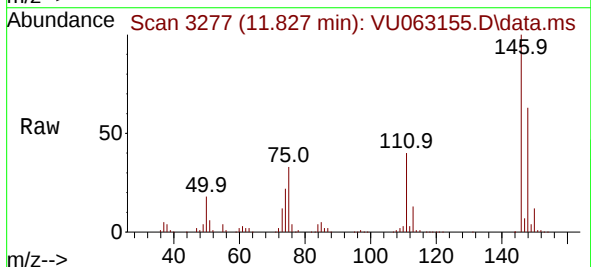
Tgt Ion:146 Resp: 223036

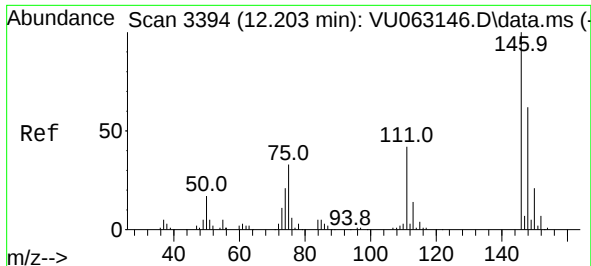
Ion Ratio Lower Upper

146 100

111 39.8 28.5 52.9

148 63.2 45.4 84.2





#67

1,2-Dichlorobenzene

Concen: 18.832 ug/L

RT: 12.200 min Scan# 31

Delta R.T. -0.003 min

Lab File: VU063155.D

Acq: 05 Feb 2025 13:22

Instrument :

MSVOA_U

ClientSampleId :

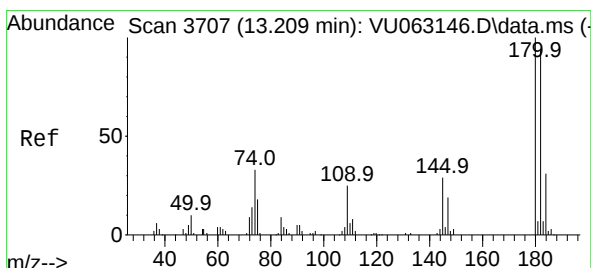
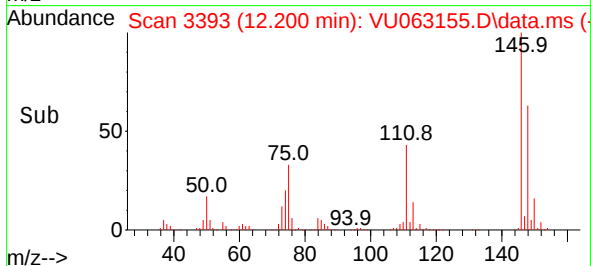
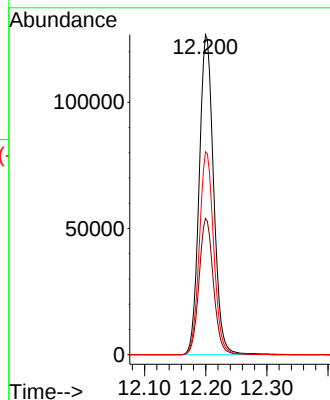
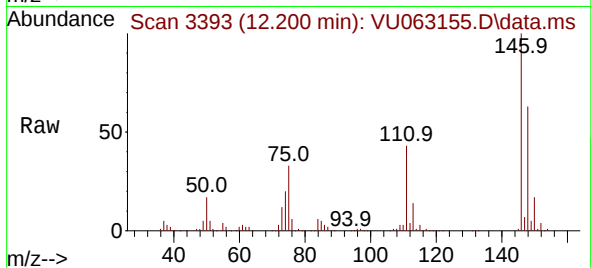
Tgt Ion:146 Resp: 207808

Ion Ratio Lower Upper

146 100

111 42.6 34.1 51.1

148 63.4 52.5 78.7



#69

1,3,5-Trichlorobenzene

Concen: 14.303 ug/L

RT: 13.830 min Scan# 3900

Delta R.T. 0.621 min

Lab File: VU063155.D

Acq: 05 Feb 2025 13:22

Tgt Ion:180 Resp: 115404

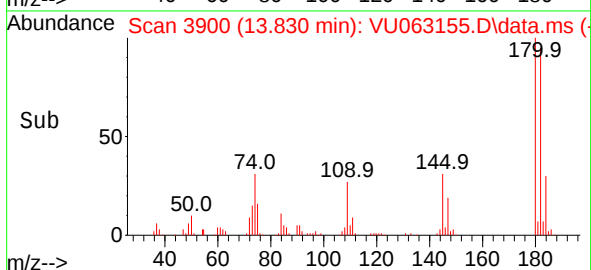
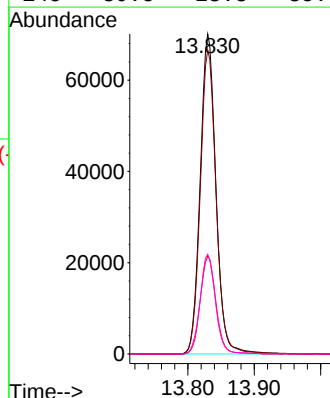
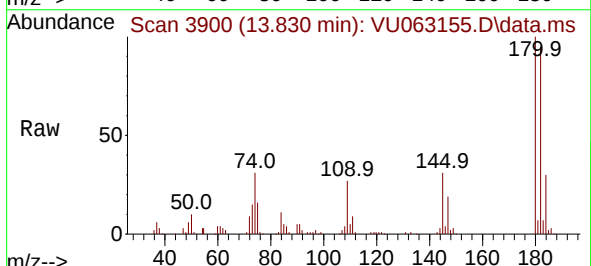
Ion Ratio Lower Upper

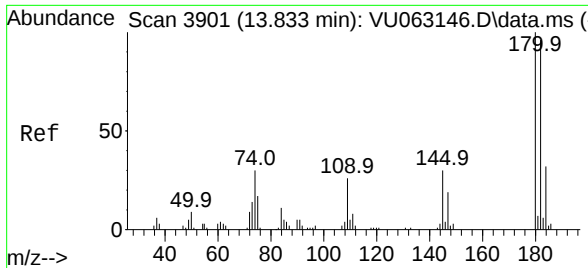
180 100

182 95.8 76.7 115.1

184 30.0 23.8 35.8

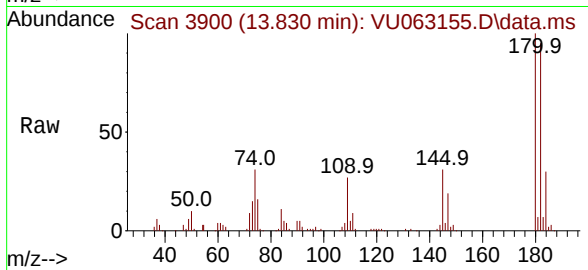
145 30.5 23.8 35.6





#70
 1,2,4-trichlorobenzene
 Concen: 18.179 ug/L
 RT: 13.830 min Scan# 3901
 Delta R.T. -0.003 min
 Lab File: VU063155.D
 Acq: 05 Feb 2025 13:22

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:180 Resp: 115404
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.1 114.1
 145 30.5 24.3 36.5

