

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW071724\
 Data File : VW036586.D
 Acq On : 17 Jul 2024 12:02
 Operator : SY/MD
 Sample : P3238-22DL4X
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 18 01:26:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM071124SMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Jul 18 01:25:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	271529	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	285274	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	136952	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	75926	19.517	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	78.080%
7) Chloroethane-d5	1.526	69	67120	19.734	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	78.920%
11) 1,1-Dichloroethene-d2	2.050	65	39724	19.886	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	79.560%
21) 2-Butanone-d5	4.111	46	21	0.032	ug/L	0.26
Spiked Amount	50.000	Range	20 - 135	Recovery	=	0.060%#
24) Chloroform-d	4.243	84	163499	20.687	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	82.760%
26) 1,2-Dichloroethane-d4	4.937	65	82151	20.957	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	83.840%
32) Benzene-d6	4.957	84	287244	20.183	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	80.720%
36) 1,2-Dichloropropane-d6	5.985	67	87850	20.712	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	82.840%
41) Toluene-d8	7.239	98	292947	22.309	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	89.240%
43) trans-1,3-Dichloroprop...	7.554	79	36537	20.719	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	82.880%
47) 2-Hexanone-d5	8.034	63	18576	39.433	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	78.860%
56) 1,1,2,2-Tetrachloroeth...	10.149	84	74773	20.932	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	83.720%
66) 1,2-Dichlorobenzene-d4	11.558	152	113037	24.321	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.280%
Target Compounds						
					Qvalue	
13) Acetone	2.166	43	79579	84.539	ug/L	95
16) Methylene chloride	2.442	84	93191	16.694	ug/L	98
17) trans-1,2-Dichloroethene	2.687	96	53453	14.664	ug/L	99
18) Methyl tert-butyl Ether	2.703	73	51715	6.331	ug/L	98
19) 1,1-Dichloroethane	3.104	63	120746	18.300	ug/L	99
20) cis-1,2-Dichloroethene	3.812	96	86665	22.874	ug/L	98
22) 2-Butanone	3.924	43	3838	4.856	ug/L #	1
25) Chloroform	4.272	83	79550	10.154	ug/L	100
31) Carbon tetrachloride	4.728	117	28352	4.821	ug/L	96
33) Benzene	5.005	78	360359	25.526	ug/L	100
34) Trichloroethene	5.828	95	127712	28.429	ug/L	99
38) Bromodichloromethane	6.429	83	102559	18.167	ug/L	98
39) cis-1,3-Dichloropropene	6.953	75	111108	20.223	ug/L	98
40) 4-Methyl-2-pentanone	7.159	43	120884	74.662	ug/L	95
42) Toluene	7.313	91	178551	11.936	ug/L	99
45) 1,1,2-Trichloroethane	7.767	97	48802	13.901	ug/L	96
46) Tetrachloroethene	7.902	164	46760	12.873	ug/L	99
49) Dibromochloromethane	8.175	129	99716	23.488	ug/L	100
50) 1,2-Dibromoethane	8.284	107	34012	10.323	ug/L	97

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Quant Title : VOC Analysis
QLast Update : Thu Jul 18 01:25:10 2024
Response via : Initial Calibration

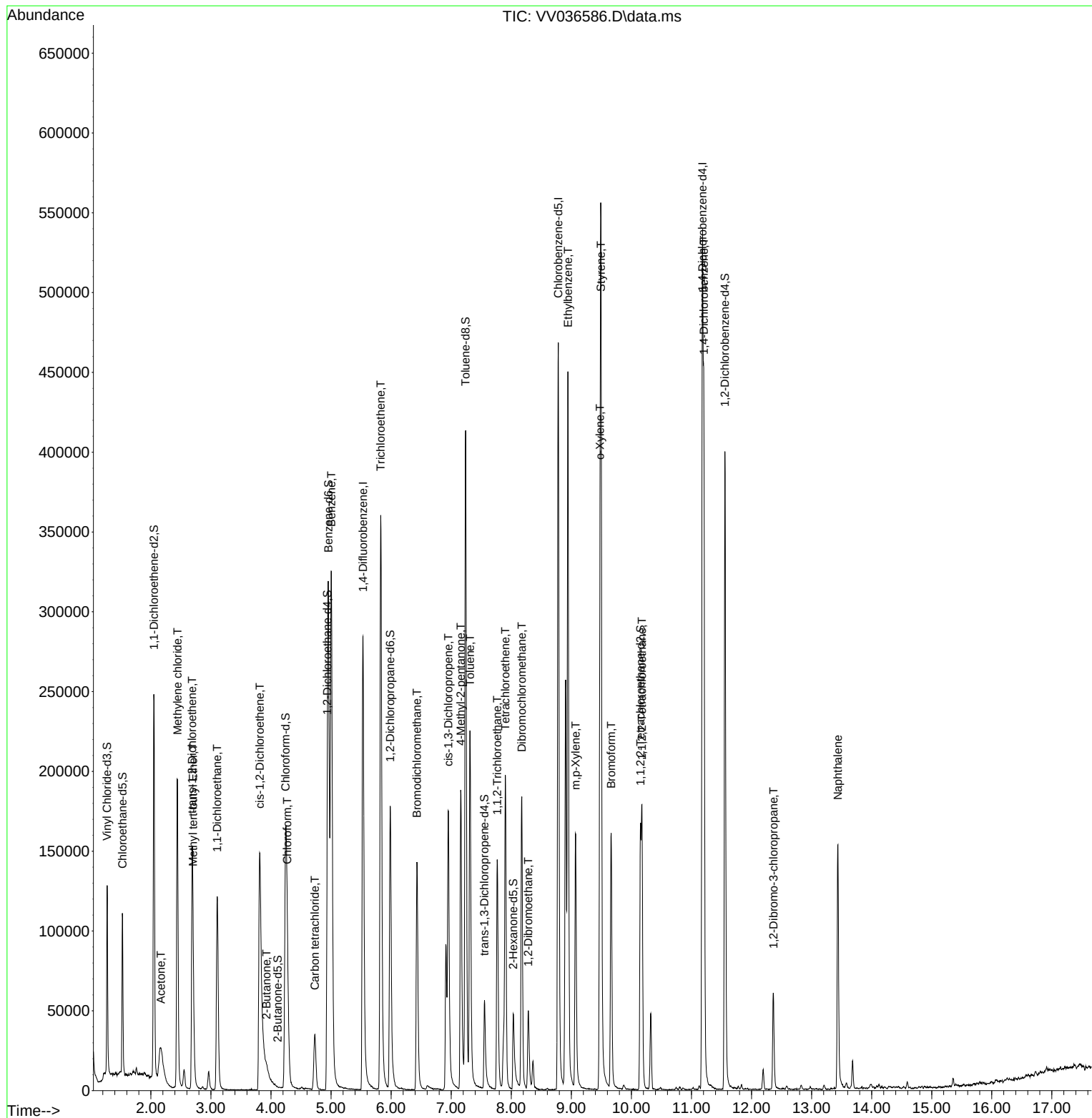
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) Ethylbenzene	8.943	91	307395	19.157	ug/L	99
53) m,p-Xylene	9.072	106	48095	7.785	ug/L	96
54) o-Xylene	9.477	106	70154	11.927	ug/L	99
55) Styrene	9.493	104	254786	24.210	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.175	83	79506	24.800	ug/L	97
59) Bromoform	9.664	173	77440	31.905	ug/L	99
65) 1,4-Dichlorobenzene	11.207	146	180356	20.767	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.365	75	15241	28.910	ug/L	97
71) Naphthalene	13.438	128	131115	17.527	ug/L	99

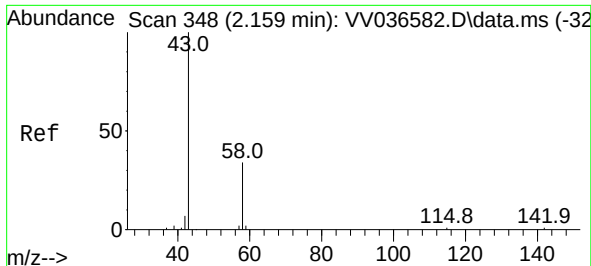
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 84.539 ug/L

RT: 2.166 min Scan# 348

Delta R.T. 0.006 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

Instrument :

MSVOA_V

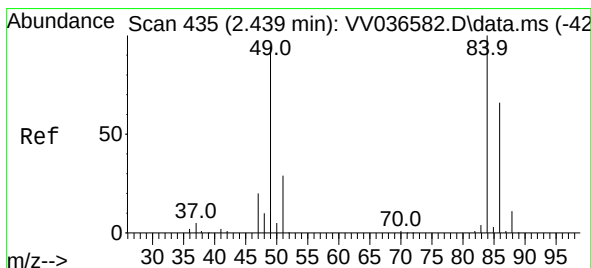
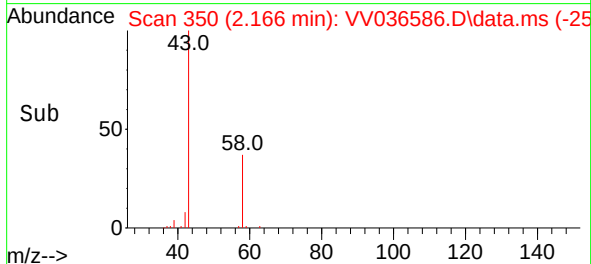
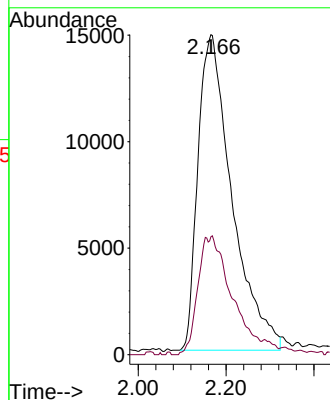
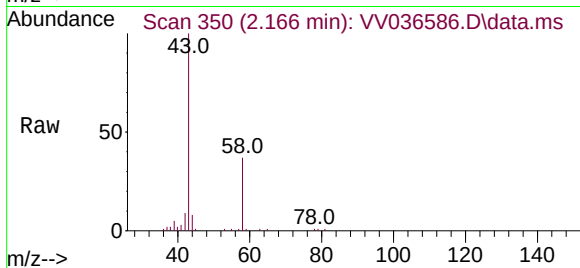
ClientSampleId :

Tgt Ion: 43 Resp: 79579

Ion Ratio Lower Upper

43 100

58 12.1 0.0 28.4



#16

Methylene chloride

Concen: 16.694 ug/L

RT: 2.442 min Scan# 436

Delta R.T. 0.003 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

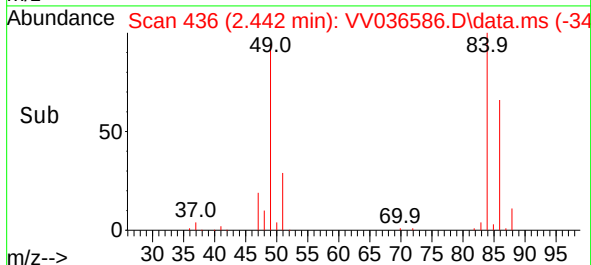
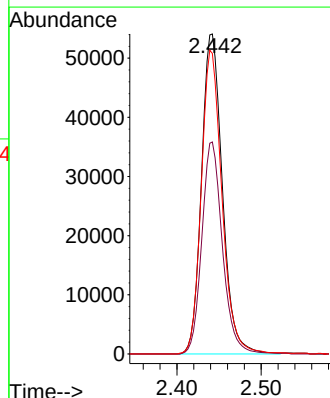
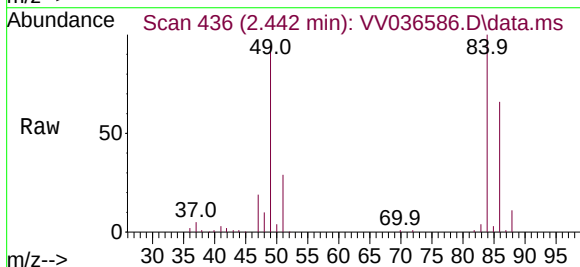
Tgt Ion: 84 Resp: 93191

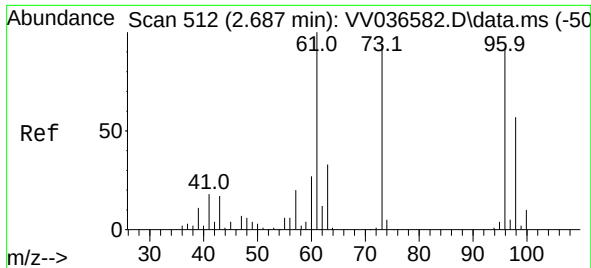
Ion Ratio Lower Upper

84 100

86 66.3 46.3 86.1

49 93.9 68.1 126.5





#17

trans-1,2-Dichloroethene

Concen: 14.664 ug/L

RT: 2.687 min Scan# 512

Delta R.T. 0.000 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

Instrument :

MSVOA_V

ClientSampleId :

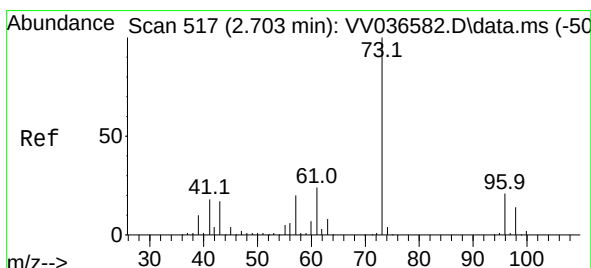
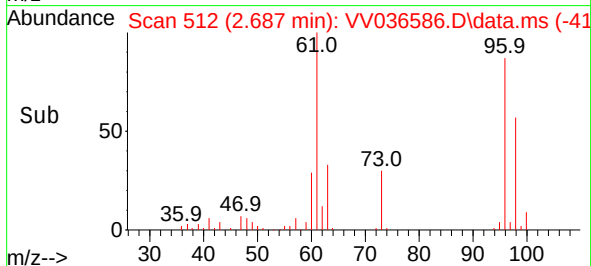
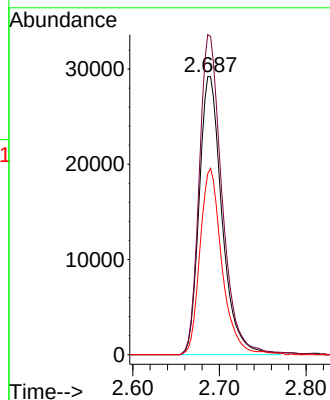
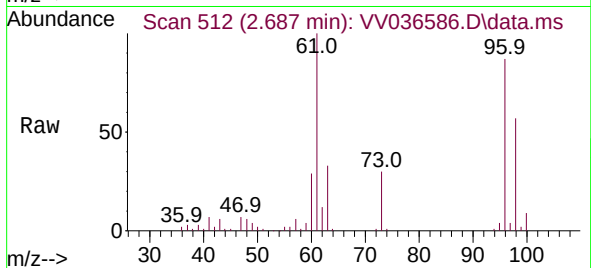
Tgt Ion: 96 Resp: 53453

Ion Ratio Lower Upper

96 100

61 115.1 80.7 149.9

98 65.1 44.6 82.8



#18

Methyl tert-butyl Ether

Concen: 6.331 ug/L

RT: 2.703 min Scan# 517

Delta R.T. 0.000 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

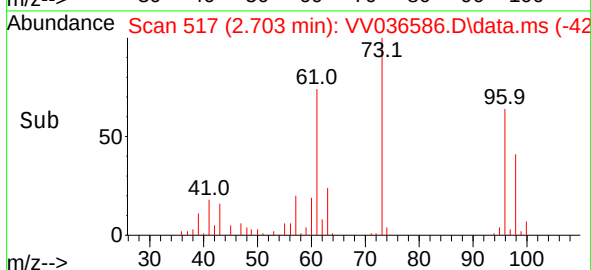
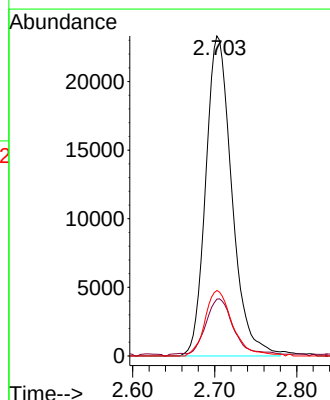
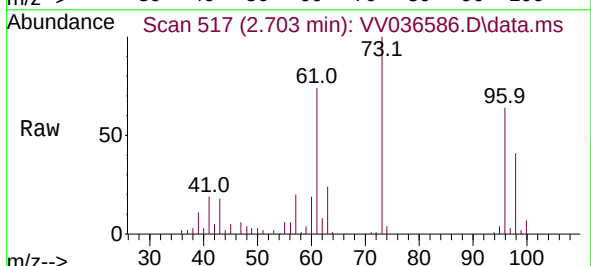
Tgt Ion: 73 Resp: 51715

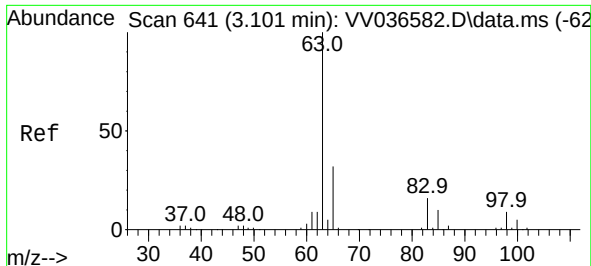
Ion Ratio Lower Upper

73 100

43 17.3 14.3 21.5

57 21.4 16.5 24.7





#19

1,1-Dichloroethane

Concen: 18.300 ug/L

RT: 3.104 min Scan# 641

Delta R.T. 0.003 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

Instrument :

MSVOA_V

ClientSampleId :

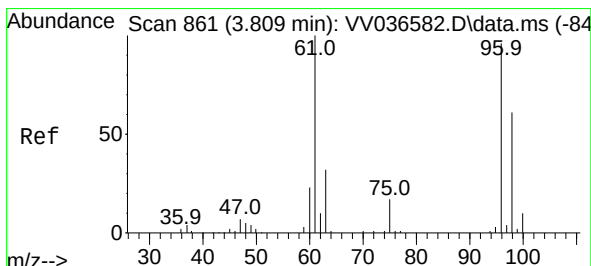
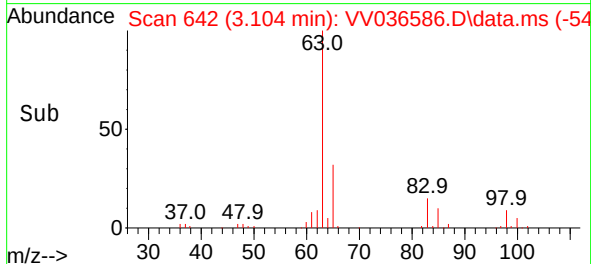
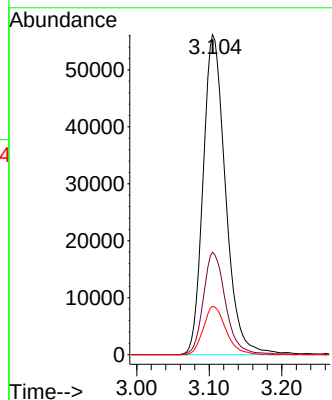
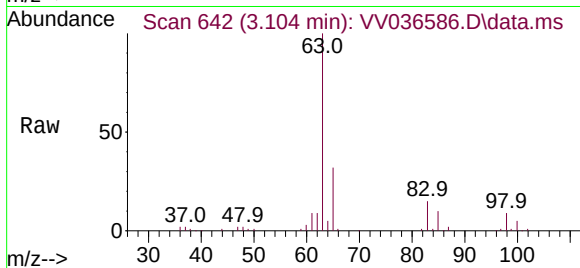
Tgt Ion: 63 Resp: 120746

Ion Ratio Lower Upper

63 100

65 32.0 22.7 42.1

83 15.1 10.9 20.2



#20

cis-1,2-Dichloroethene

Concen: 22.874 ug/L

RT: 3.812 min Scan# 862

Delta R.T. 0.003 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

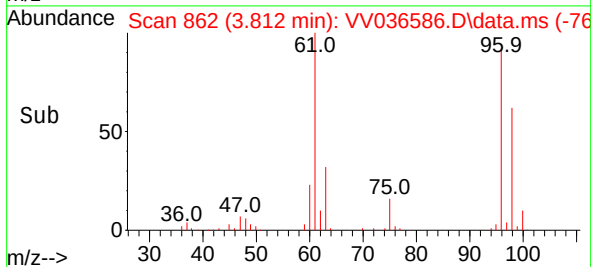
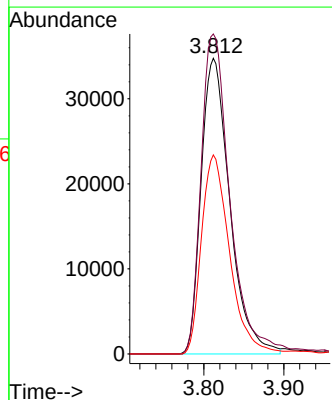
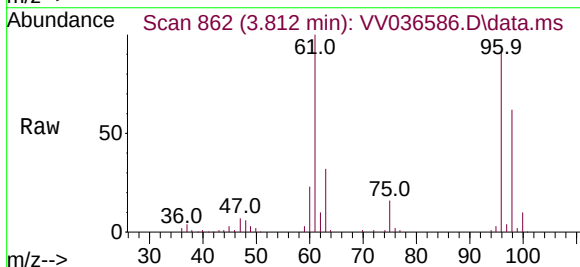
Tgt Ion: 96 Resp: 86665

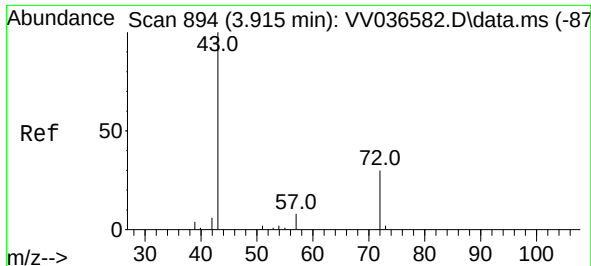
Ion Ratio Lower Upper

96 100

61 108.2 74.8 138.8

98 67.3 45.2 84.0

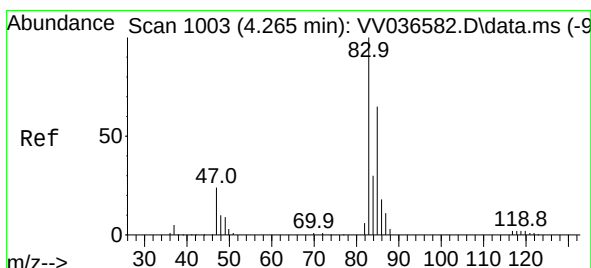
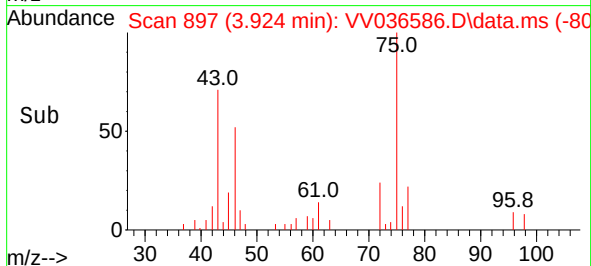
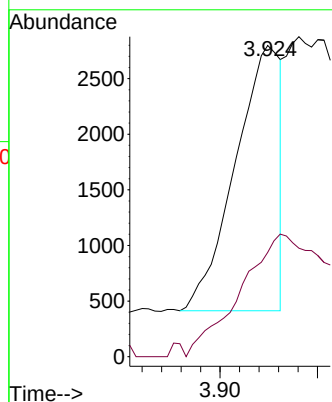
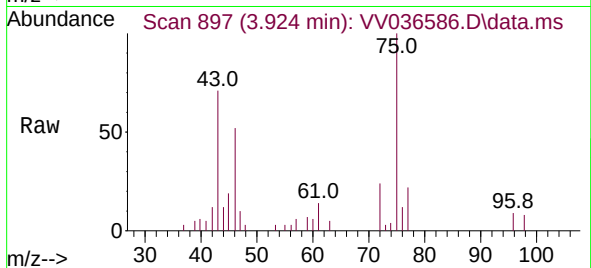




#22
2-Butanone
Concen: 4.856 ug/L
RT: 3.924 min Scan# 894
Delta R.T. 0.010 min
Lab File: VV036586.D
Acq: 17 Jul 2024 12:02

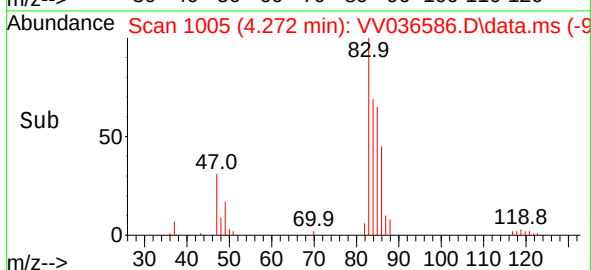
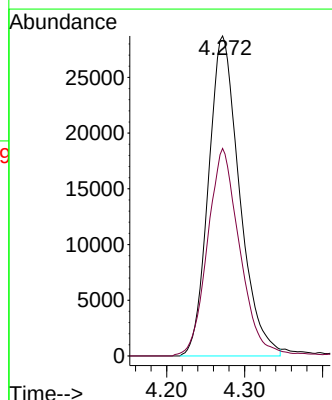
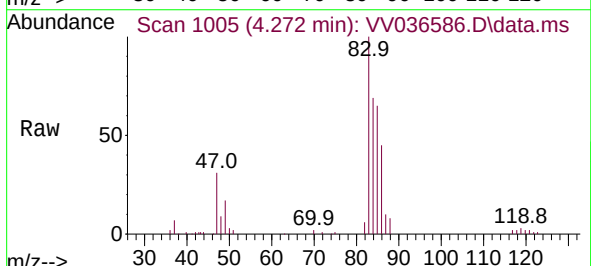
Instrument :
MSVOA_V
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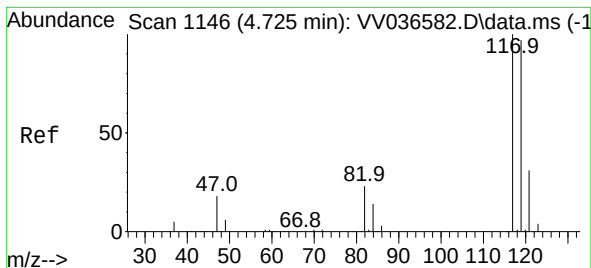
Tgt Ion: 43 Resp: 3838
Ion Ratio Lower Upper
43 100
72 80.8 5.9 17.6#



#25
Chloroform
Concen: 10.154 ug/L
RT: 4.272 min Scan# 1005
Delta R.T. 0.006 min
Lab File: VV036586.D
Acq: 17 Jul 2024 12:02

Tgt Ion: 83 Resp: 79550
Ion Ratio Lower Upper
83 100
85 64.9 45.6 84.6





#31

Carbon tetrachloride

Concen: 4.821 ug/L

RT: 4.728 min Scan# 1146

Delta R.T. 0.003 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

Instrument :

MSVOA_V

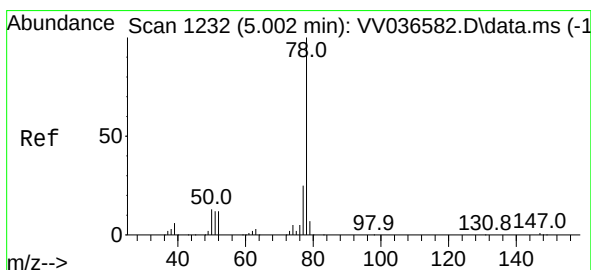
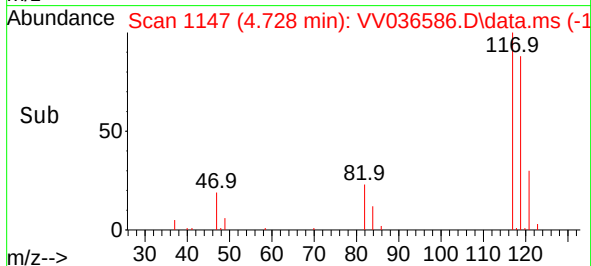
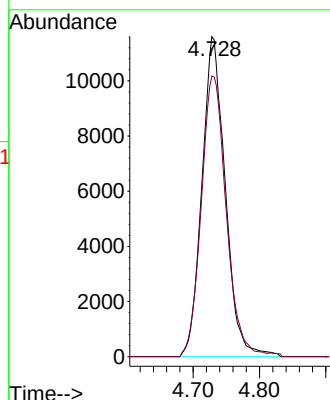
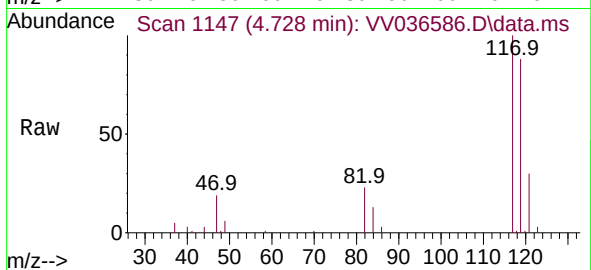
ClientSampleId :

Tgt Ion:117 Resp: 28352

Ion Ratio Lower Upper

117 100

119 93.5 77.6 116.4



#33

Benzene

Concen: 25.526 ug/L

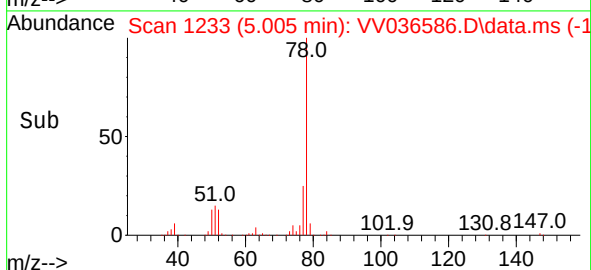
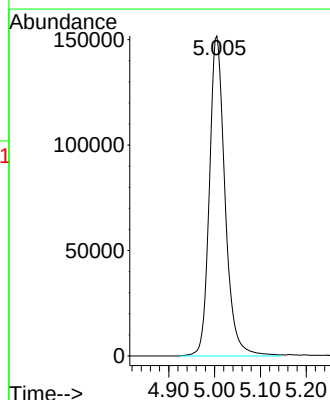
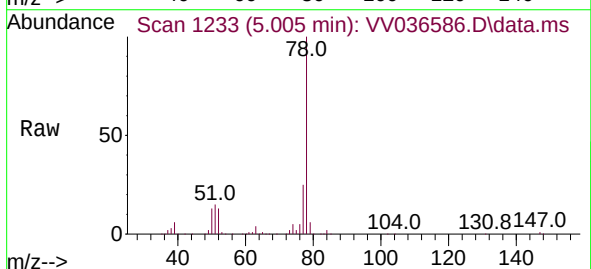
RT: 5.005 min Scan# 1233

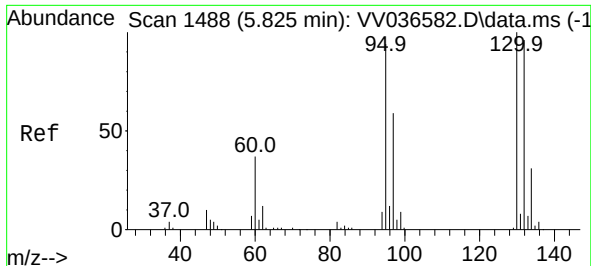
Delta R.T. 0.003 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

Tgt Ion: 78 Resp: 360359





#34

Trichloroethene

Concen: 28.429 ug/L

RT: 5.828 min Scan# 1488

Delta R.T. 0.003 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 127712

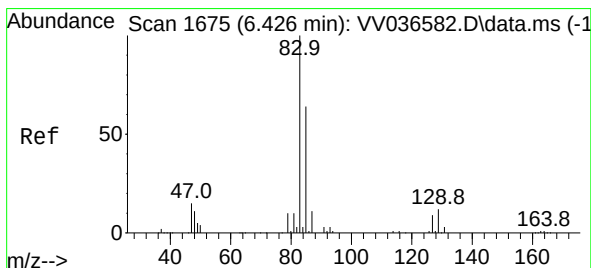
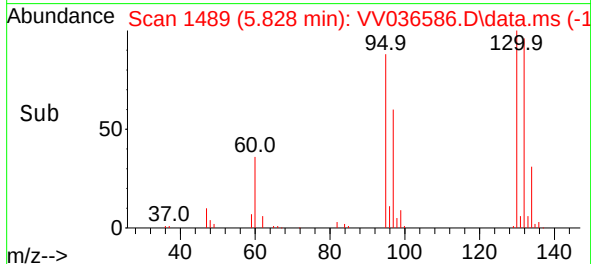
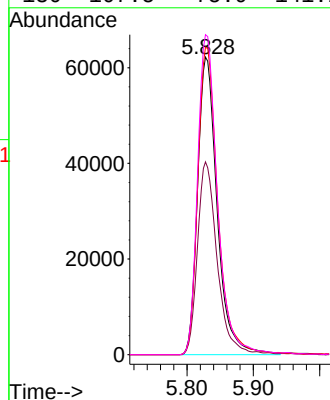
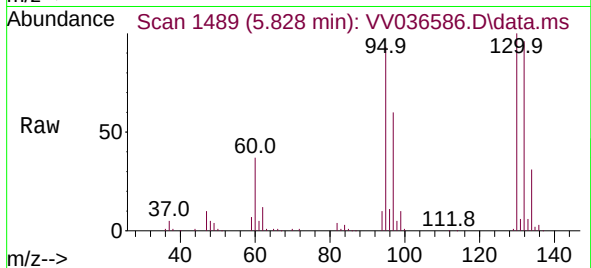
Ion Ratio Lower Upper

95 100

97 64.8 44.4 82.4

132 103.3 73.0 135.6

130 107.5 75.9 141.1



#38

Bromodichloromethane

Concen: 18.167 ug/L

RT: 6.429 min Scan# 1676

Delta R.T. 0.003 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

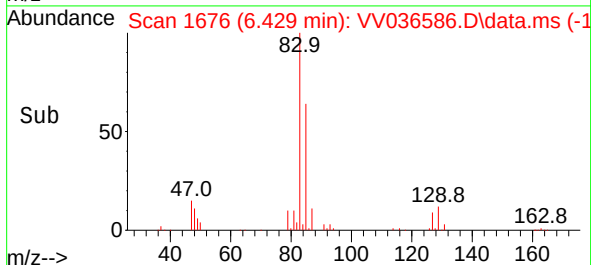
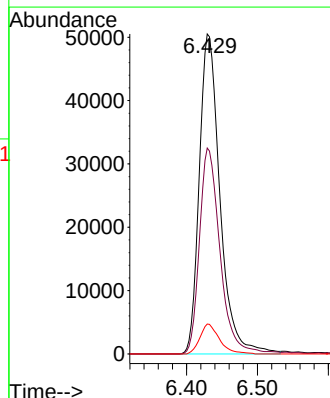
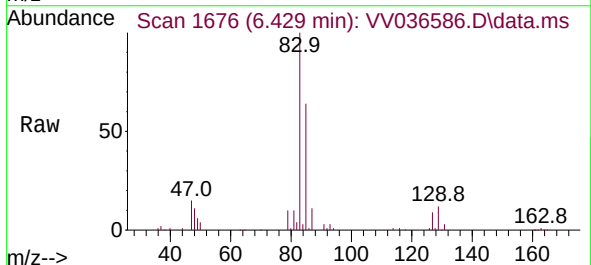
Tgt Ion: 83 Resp: 102559

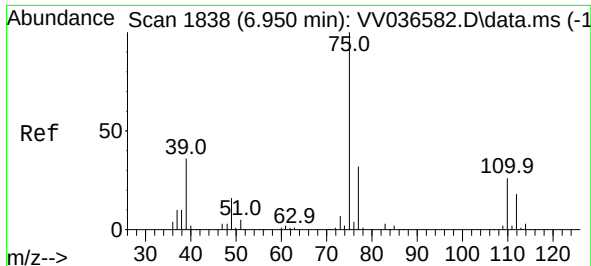
Ion Ratio Lower Upper

83 100

85 64.3 44.3 82.3

127 10.3 7.0 10.4





#39

cis-1,3-Dichloropropene

Concen: 20.223 ug/L

RT: 6.953 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

Instrument :

MSVOA_V

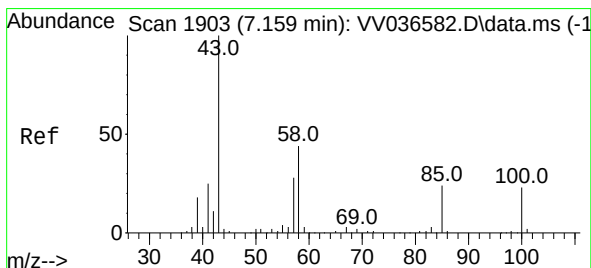
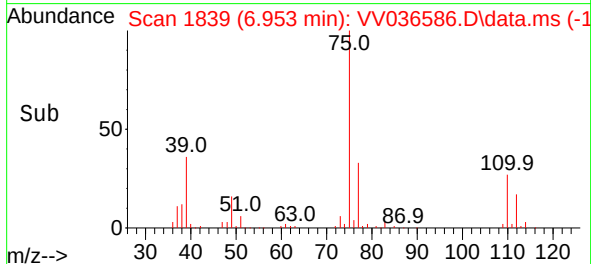
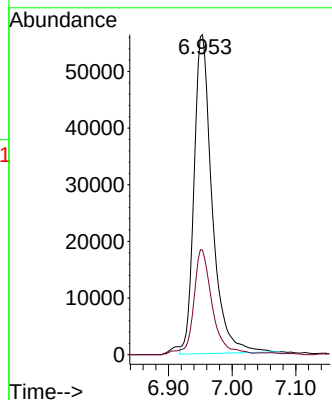
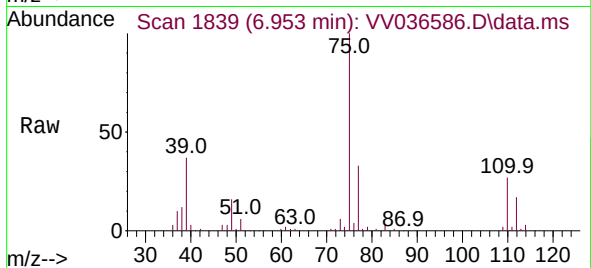
ClientSampleId :

Tgt Ion: 75 Resp: 111108

Ion Ratio Lower Upper

75 100

77 32.7 22.2 41.2



#40

4-Methyl-2-pentanone

Concen: 74.662 ug/L

RT: 7.159 min Scan# 1903

Delta R.T. -0.000 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

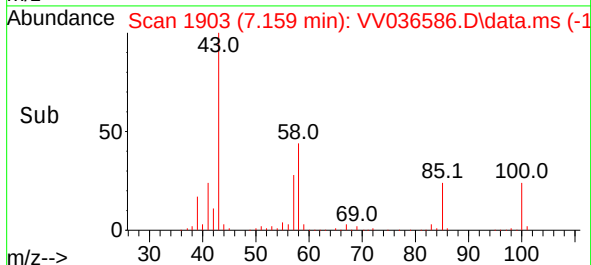
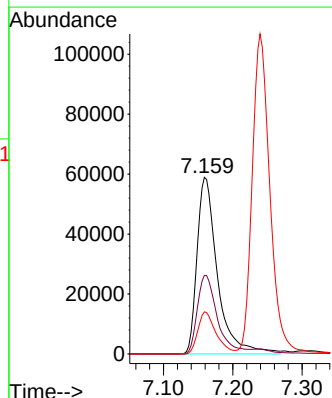
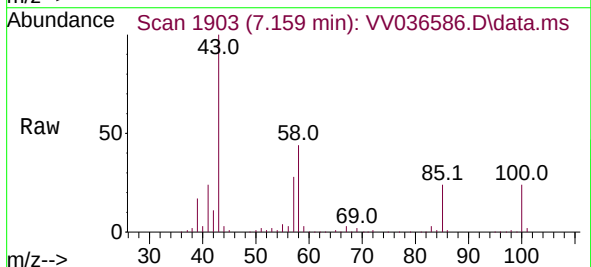
Tgt Ion: 43 Resp: 120884

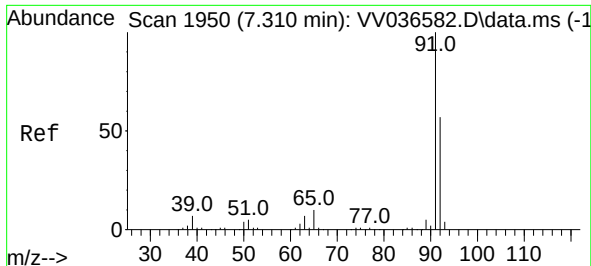
Ion Ratio Lower Upper

43 100

58 44.1 32.9 49.3

100 21.3 15.5 23.3

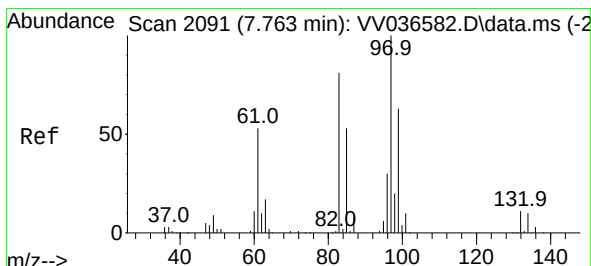
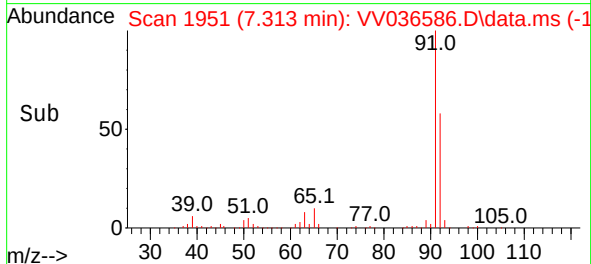
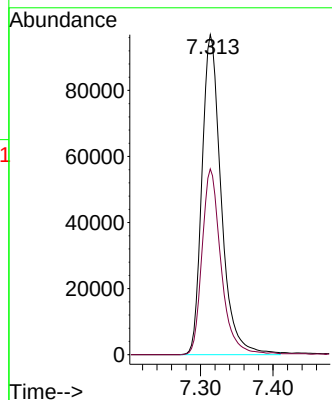
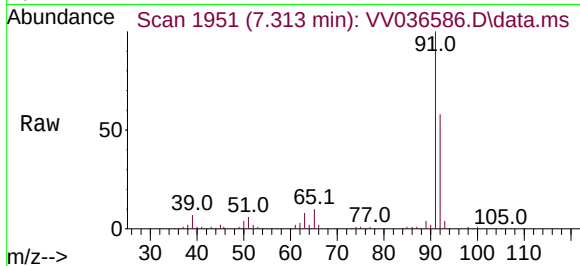




#42
Toluene
Concen: 11.936 ug/L
RT: 7.313 min Scan# 1951
Delta R.T. 0.003 min
Lab File: VV036586.D
Acq: 17 Jul 2024 12:02

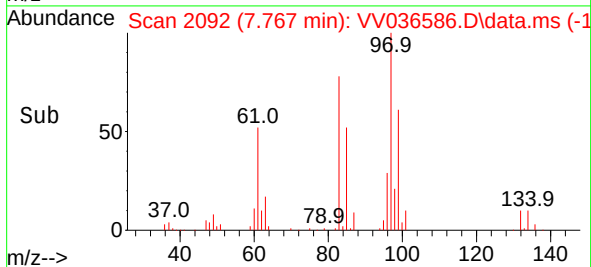
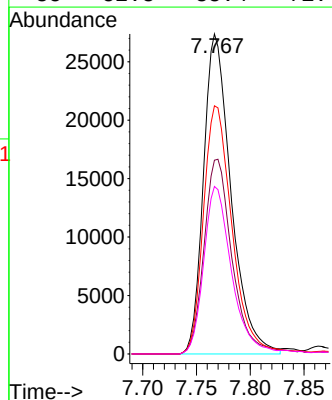
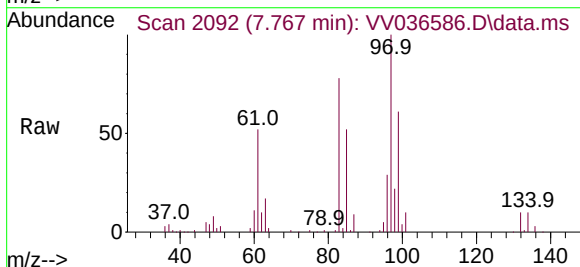
Instrument :
MSVOA_V
ClientSampleId :

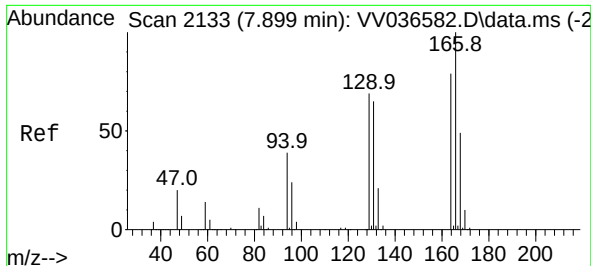
Tgt Ion: 91 Resp: 178551
Ion Ratio Lower Upper
91 100
92 58.0 40.1 74.5



#45
1,1,2-Trichloroethane
Concen: 13.901 ug/L
RT: 7.767 min Scan# 2092
Delta R.T. 0.003 min
Lab File: VV036586.D
Acq: 17 Jul 2024 12:02

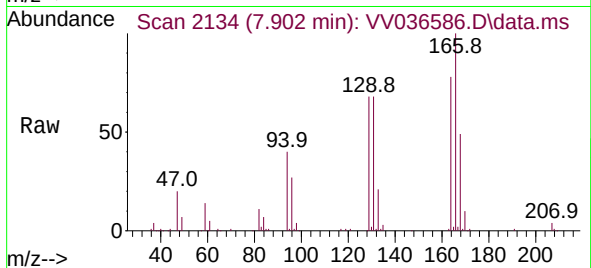
Tgt Ion: 97 Resp: 48802
Ion Ratio Lower Upper
97 100
99 60.5 42.6 79.2
83 77.5 58.0 107.6
85 52.3 38.4 71.4



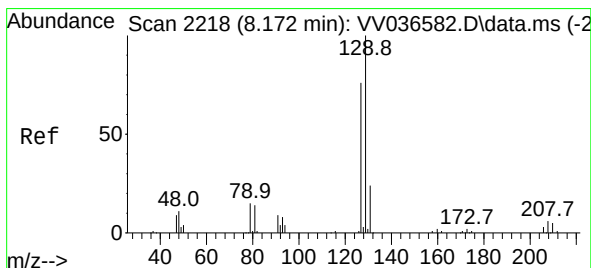
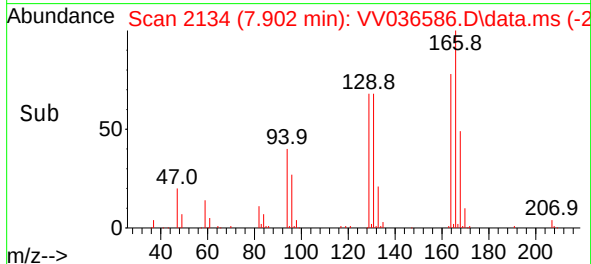
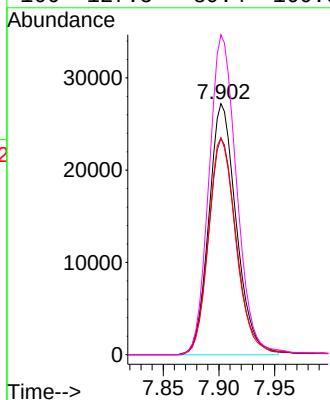


#46
Tetrachloroethene
Concen: 12.873 ug/L
RT: 7.902 min Scan# 2134
Delta R.T. 0.003 min
Lab File: VV036586.D
Acq: 17 Jul 2024 12:02

Instrument :
MSVOA_V
ClientSampleId :

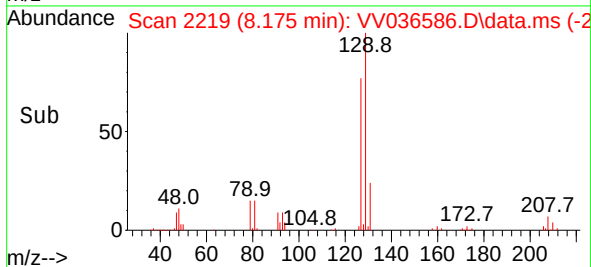
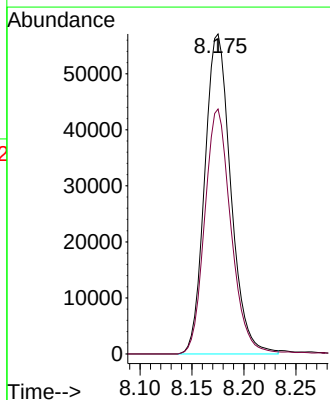
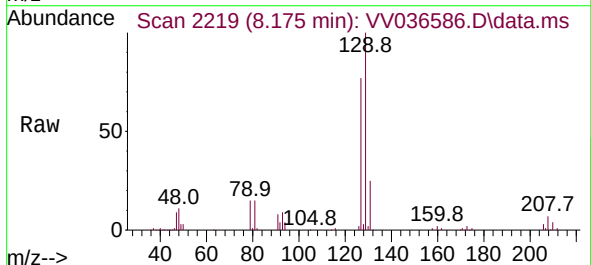


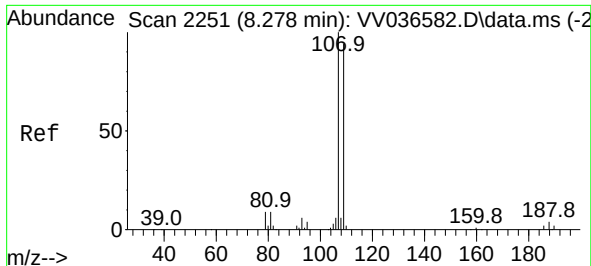
Tgt Ion:164 Resp: 46760
Ion Ratio Lower Upper
164 100
129 86.2 61.0 113.4
131 86.3 59.8 111.1
166 127.5 89.4 166.0



#49
Dibromochloromethane
Concen: 23.488 ug/L
RT: 8.175 min Scan# 2219
Delta R.T. 0.003 min
Lab File: VV036586.D
Acq: 17 Jul 2024 12:02

Tgt Ion:129 Resp: 99716
Ion Ratio Lower Upper
129 100
127 76.6 53.7 99.7

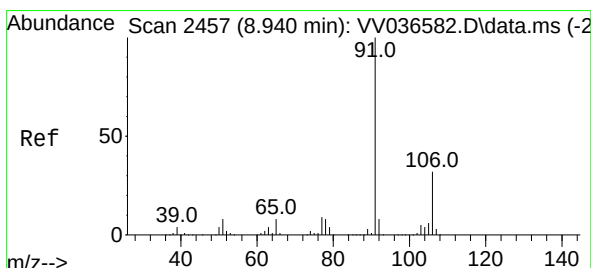
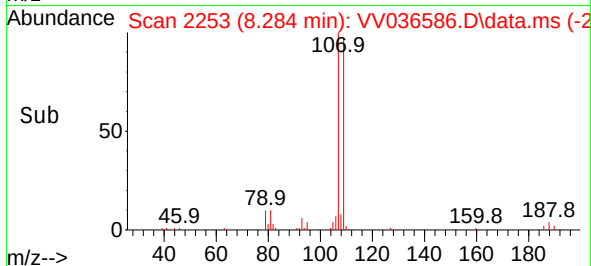
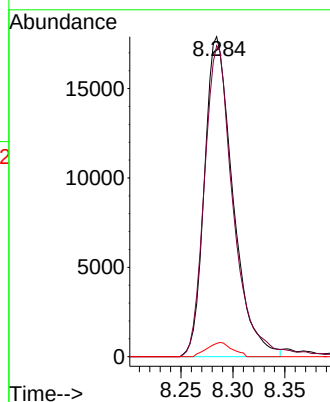
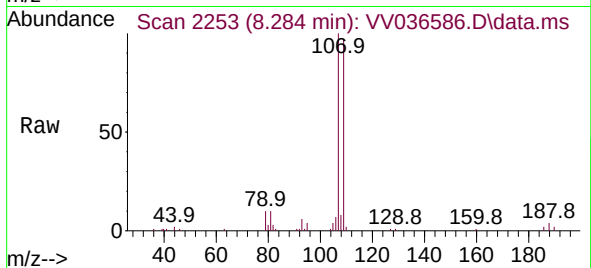




#50
1,2-Dibromoethane
Concen: 10.323 ug/L
RT: 8.284 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV036586.D
Acq: 17 Jul 2024 12:02

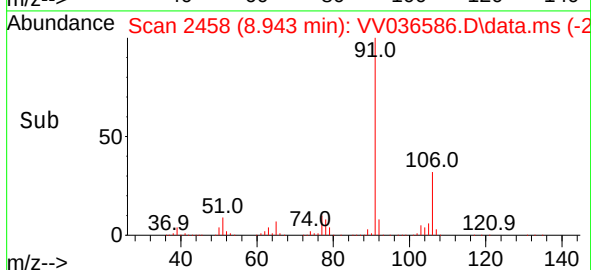
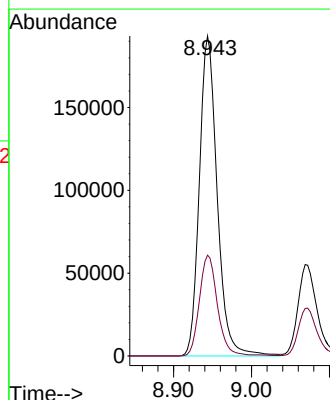
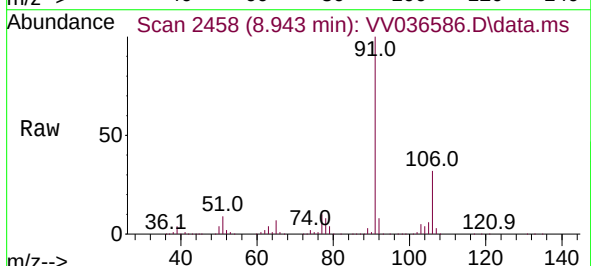
Instrument :
MSVOA_V
ClientSampleId :

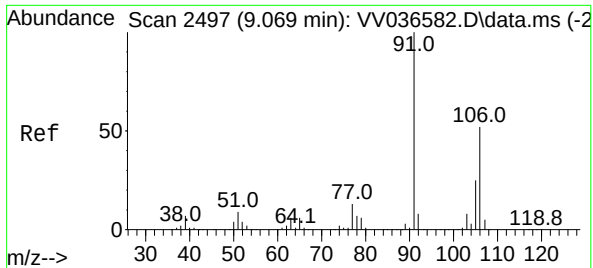
Tgt Ion:107 Resp: 34012
Ion Ratio Lower Upper
107 100
109 97.2 66.2 123.0
188 4.2 3.4 5.0



#52
Ethylbenzene
Concen: 19.157 ug/L
RT: 8.943 min Scan# 2458
Delta R.T. 0.003 min
Lab File: VV036586.D
Acq: 17 Jul 2024 12:02

Tgt Ion: 91 Resp: 307395
Ion Ratio Lower Upper
91 100
106 31.5 22.6 42.0





#53

m,p-Xylene

Concen: 7.785 ug/L

RT: 9.072 min Scan# 2498

Delta R.T. 0.003 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

Instrument :

MSVOA_V

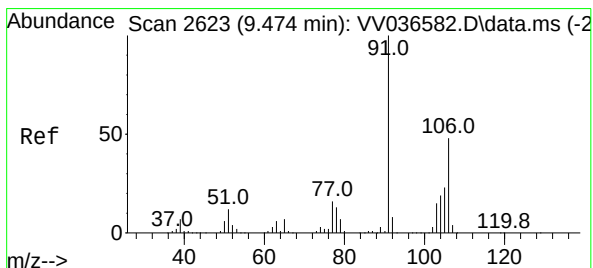
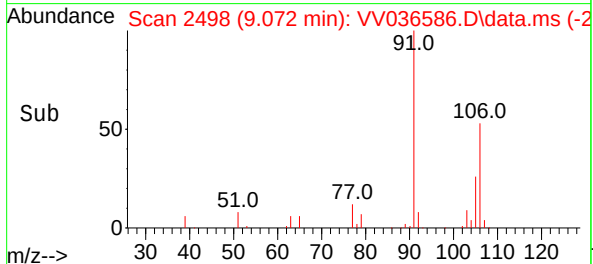
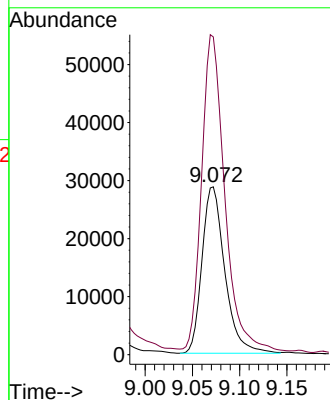
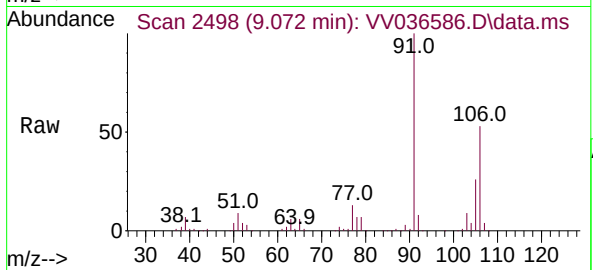
ClientSampleId :

Tgt Ion:106 Resp: 48095

Ion Ratio Lower Upper

106 100

91 189.2 137.1 254.7



#54

o-Xylene

Concen: 11.927 ug/L

RT: 9.477 min Scan# 2624

Delta R.T. 0.003 min

Lab File: VV036586.D

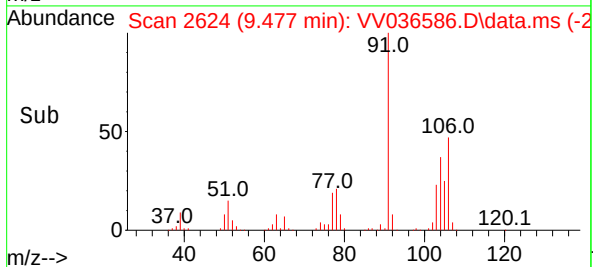
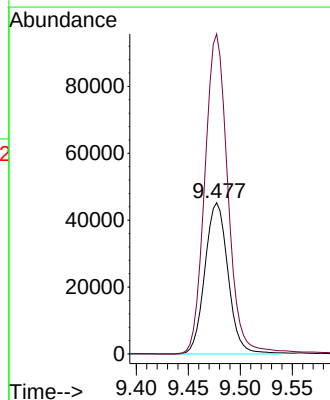
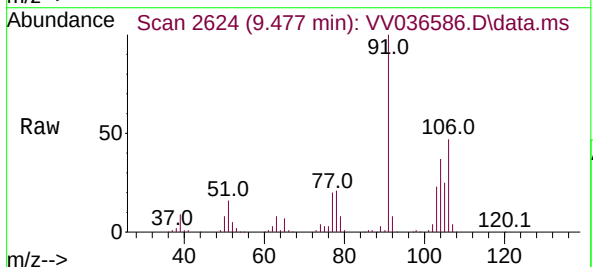
Acq: 17 Jul 2024 12:02

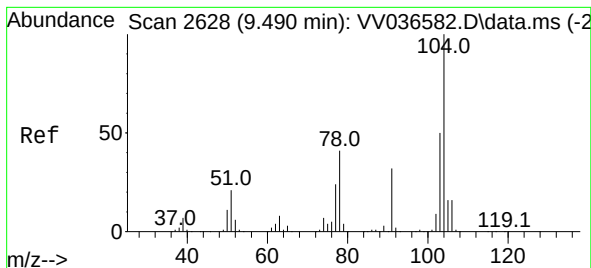
Tgt Ion:106 Resp: 70154

Ion Ratio Lower Upper

106 100

91 211.7 147.3 273.6





#55

Styrene

Concen: 24.210 ug/L

RT: 9.493 min Scan# 2

Delta R.T. 0.003 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

Instrument :

MSVOA_V

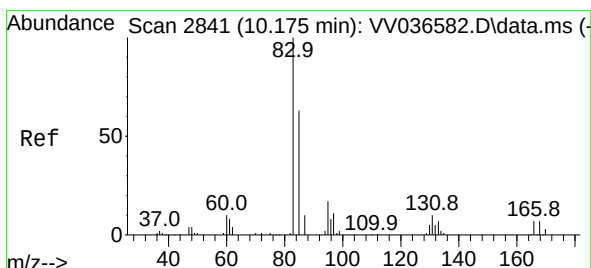
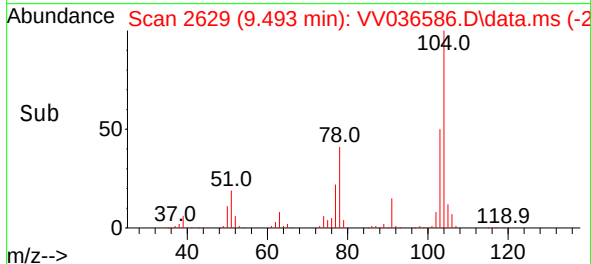
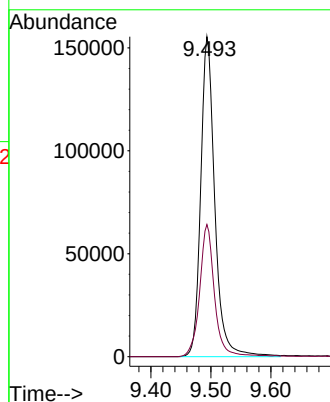
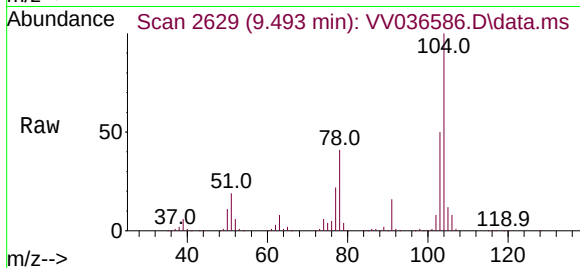
ClientSampleId :

Tgt Ion:104 Resp: 254786

Ion Ratio Lower Upper

104 100

78 41.3 28.8 53.6



#57

1,1,2,2-Tetrachloroethane

Concen: 24.800 ug/L

RT: 10.175 min Scan# 2841

Delta R.T. 0.000 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

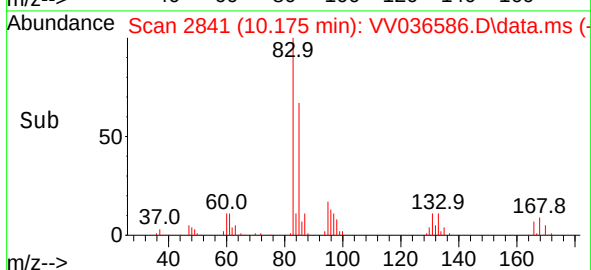
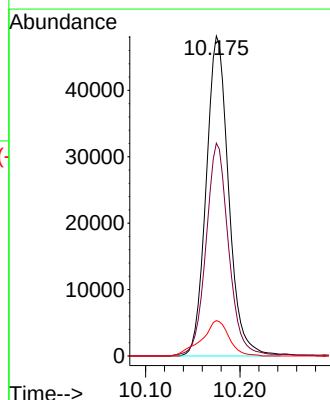
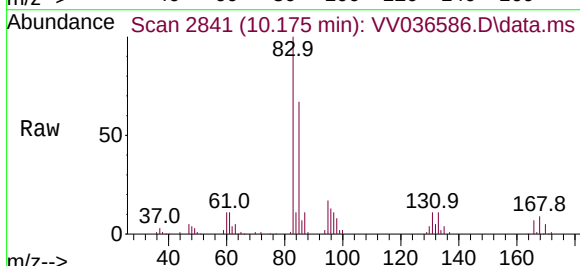
Tgt Ion: 83 Resp: 79506

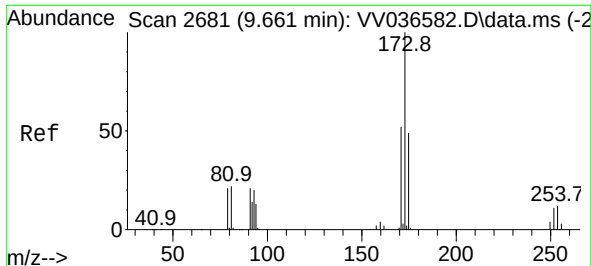
Ion Ratio Lower Upper

83 100

85 66.5 45.0 83.6

131 11.1 8.1 12.1





#59

Bromoform

Concen: 31.905 ug/L

RT: 9.664 min Scan# 2

Delta R.T. 0.003 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

Instrument :

MSVOA_V

ClientSampleId :

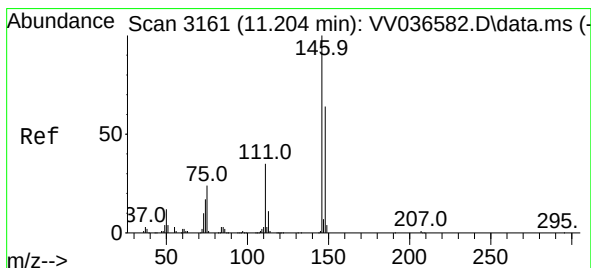
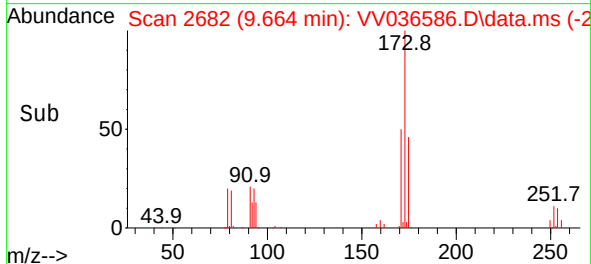
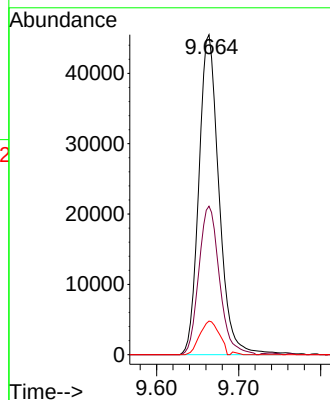
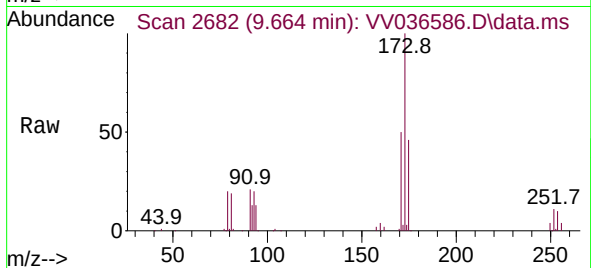
Tgt Ion:173 Resp: 77440

Ion Ratio Lower Upper

173 100

175 47.6 37.6 56.4

254 10.1 8.2 12.4



#65

1,4-Dichlorobenzene

Concen: 20.767 ug/L

RT: 11.207 min Scan# 3162

Delta R.T. 0.003 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

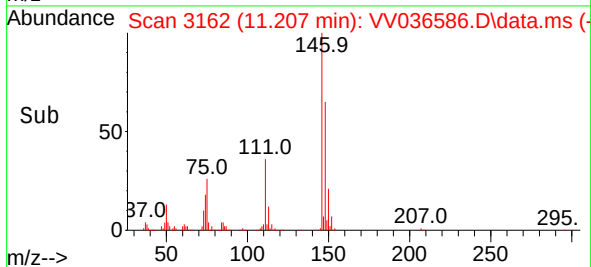
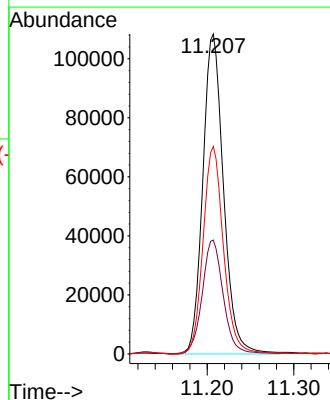
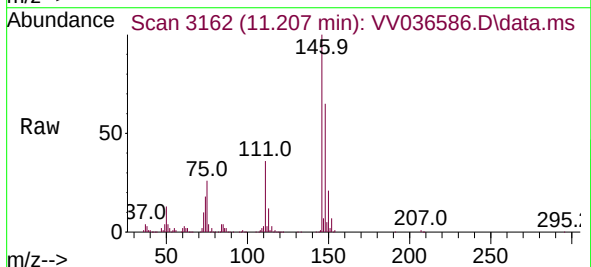
Tgt Ion:146 Resp: 180356

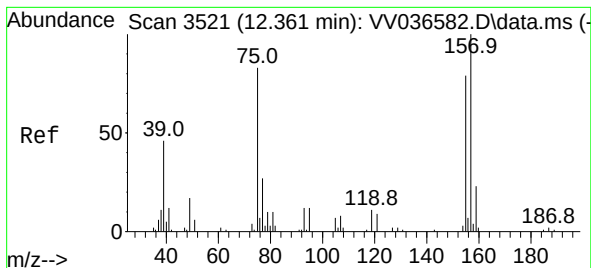
Ion Ratio Lower Upper

146 100

111 35.6 25.2 46.8

148 64.9 45.2 84.0





#68

1,2-Dibromo-3-chloropropane

Concen: 28.910 ug/L

RT: 12.365 min Scan# 3521

Delta R.T. 0.003 min

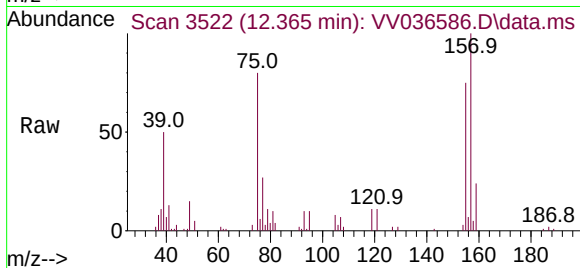
Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

Instrument :

MSVOA_V

ClientSampleId :



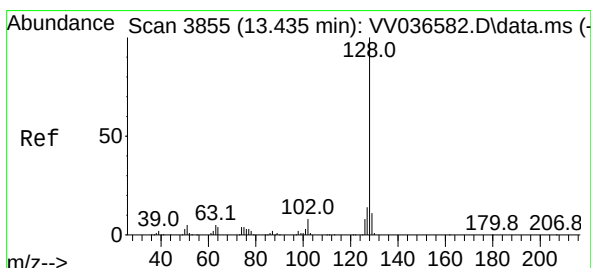
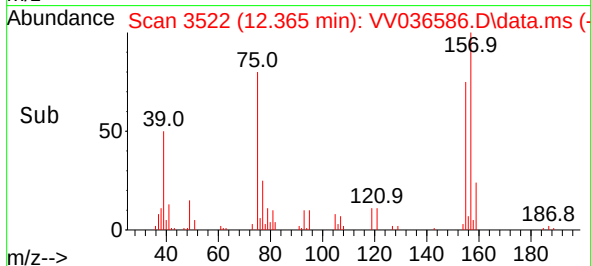
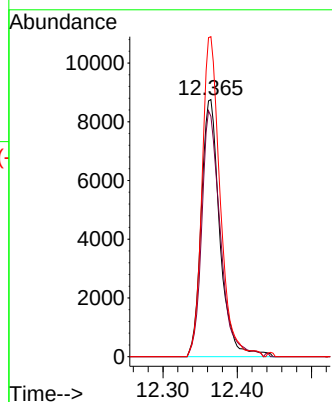
Tgt Ion: 75 Resp: 15241

Ion Ratio Lower Upper

75 100

155 93.5 74.6 111.8

157 124.4 95.0 142.4



#71

Naphthalene

Concen: 17.527 ug/L

RT: 13.438 min Scan# 3856

Delta R.T. 0.003 min

Lab File: VV036586.D

Acq: 17 Jul 2024 12:02

Tgt Ion: 128 Resp: 131115

Ion Ratio Lower Upper

128 100

127 14.0 10.8 16.2

129 10.9 8.6 13.0

