

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100724\
 Data File : VW030416.D
 Acq On : 07 Oct 2024 14:39
 Operator : SY/MD
 Sample : P4284-08
 Misc : 5.00g/10mL/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 08 01:22:53 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM092724SMA.M
 Quant Title : SFAM01.0
 QLast Update : Tue Oct 08 01:21:40 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	8.837	114	195800	25.000	ug/L	0.00
28) Chlorobenzene-d5	11.629	117	185665	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	13.556	152	94700	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	2.363	65	41079	26.848	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	107.400%
7) Chloroethane-d5	2.899	69	31824	28.587	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	114.360%
11) 1,1-Dichloroethene-d2	4.021	65	24997	22.382	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	89.520%
21) 2-Butanone-d5	7.075	46	32932	53.522	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	107.040%
24) Chloroform-d	7.648	84	143381	27.258	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	109.040%
26) 1,2-Dichloroethane-d4	8.307	65	65624	23.902	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	95.600%
32) Benzene-d6	8.270	84	237153	22.790	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	91.160%
36) 1,2-Dichloropropane-d6	9.270	67	74392	23.769	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.080%
41) Toluene-d8	10.325	98	221195	23.181	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	92.720%
43) trans-1,3-Dichloroprop...	10.575	79	30542	23.461	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.840%
47) 2-Hexanone-d5	10.922	63	28159	54.486	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	108.980%
56) 1,1,2,2-Tetrachloroeth...	12.690	84	64108	27.412	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	109.640%
66) 1,2-Dichlorobenzene-d4	13.849	152	73501	23.377	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.520%
Target Compounds						
					Qvalue	
13) Acetone	4.119	43	63824	97.785	ug/L	96
15) Methyl Acetate	4.923	43	473	0.444	ug/L	98
16) Methylene chloride	4.917	84	253071	83.976	ug/L	96
17) trans-1,2-Dichloroethene	5.429	96	93941	35.574	ug/L	92
18) Methyl tert-butyl Ether	5.423	73	200880	47.827	ug/L	99
19) 1,1-Dichloroethane	6.216	63	505867	100.592	ug/L	99
22) 2-Butanone	7.167	43	205394	246.161	ug/L	99
25) Chloroform	7.679	83	522754	100.233	ug/L	100
30) 1,1,1-Trichloroethane	7.874	97	3350	0.779	ug/L	93
31) Carbon tetrachloride	8.063	117	71737	18.662	ug/L	98
33) Benzene	8.325	78	834899	73.829	ug/L	100
34) Trichloroethene	9.093	95	326087	108.405	ug/L	97
37) 1,2-Dichloropropane	9.368	63	122382	41.017	ug/L	99
39) cis-1,3-Dichloropropene	10.069	75	318427	69.601	ug/L	96
40) 4-Methyl-2-pentanone	10.209	43	262988	171.364	ug/L	98
44) trans-1,3-Dichloropropene	10.605	75	306836	80.940	ug/L	96
45) 1,1,2-Trichloroethane	10.782	97	119374	56.773	ug/L	97
50) 1,2-Dibromoethane	11.233	107	106782	53.671	ug/L	96
53) m,p-Xylene	11.831	106	290818	56.802	ug/L	97

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QLast Update : Tue Oct 08 01:21:40 2024
Response via : Initial Calibration

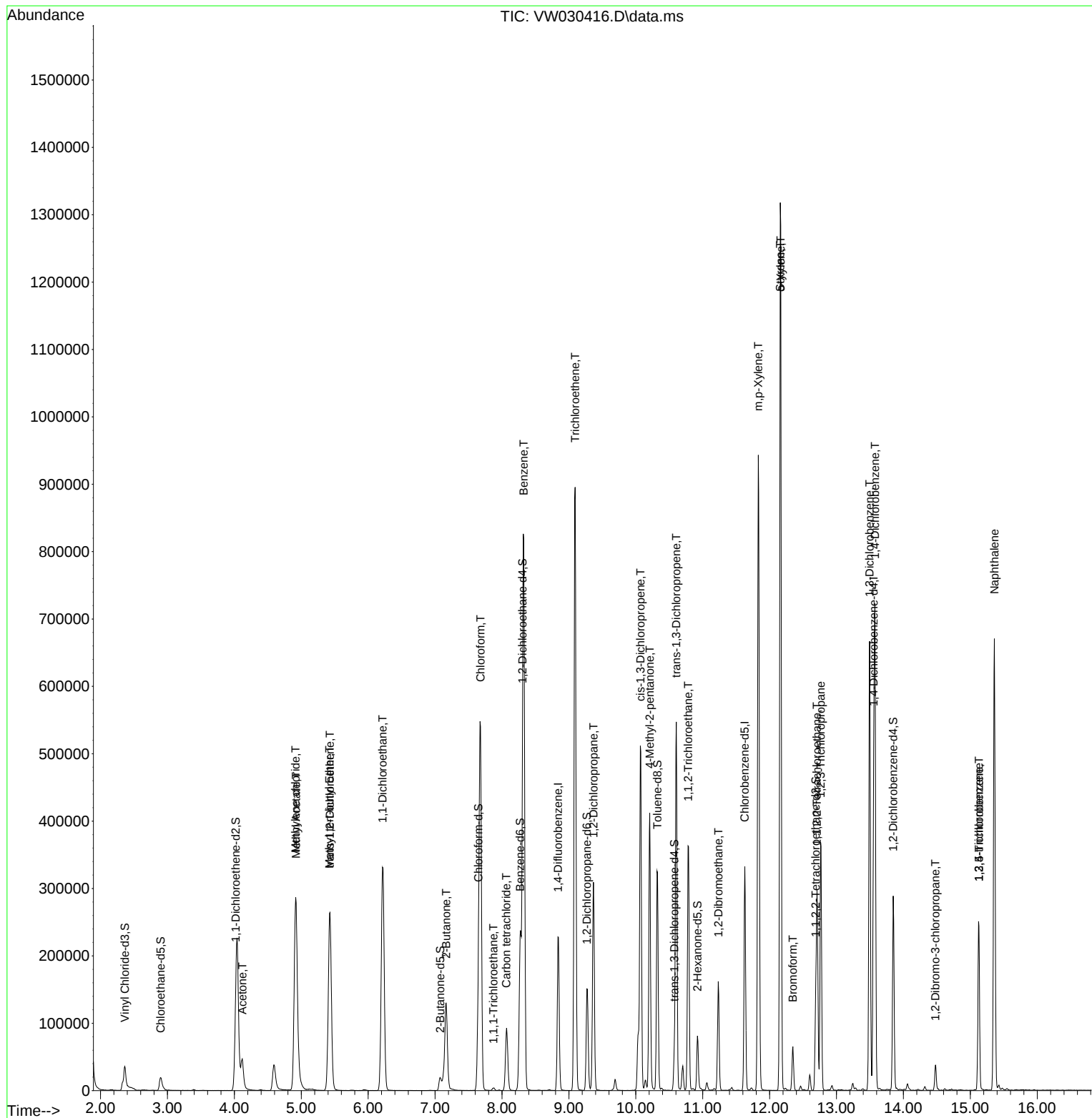
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) o-Xylene	12.166	106	362526	74.394	ug/L	95
55) Styrene	12.160	104	18741	2.254	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	12.708	83	136642	55.488	ug/L	98
59) Bromoform	12.349	173	29048	21.173	ug/L	99
61) 1,2,3-Trichloropropane	12.763	75	159686	88.700	ug/L	99
64) 1,3-Dichlorobenzene	13.495	146	276378	46.010	ug/L	87
65) 1,4-Dichlorobenzene	13.574	146	267019	43.514	ug/L	96
68) 1,2-Dibromo-3-chloropr...	14.476	75	10319	25.017	ug/L	89
69) 1,3,5-Trichlorobenzene	15.129	180	79563	19.191	ug/L	96
70) 1,2,4-trichlorobenzene	15.129	180	79563	23.178	ug/L	97
71) Naphthalene	15.360	128	562208	89.542	ug/L	99

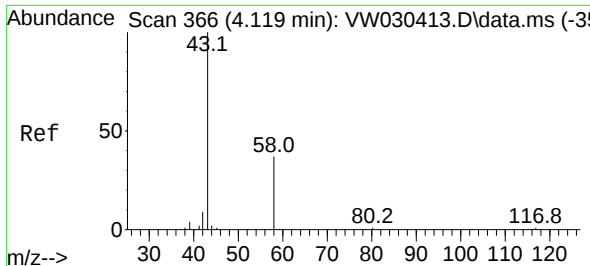
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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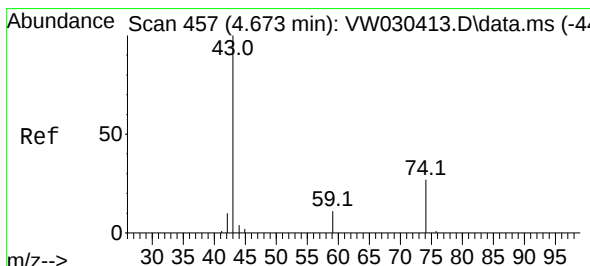
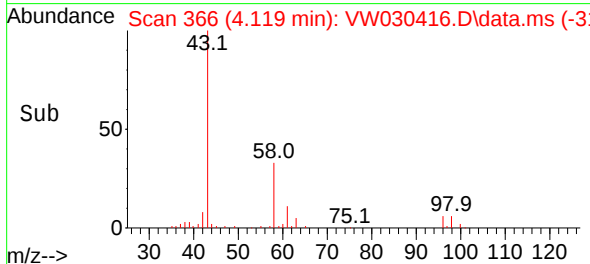
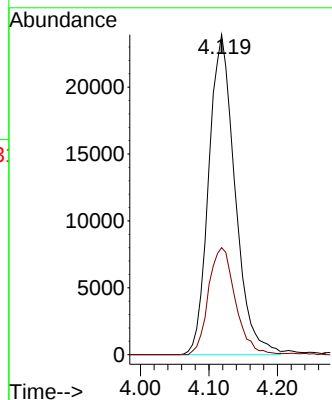
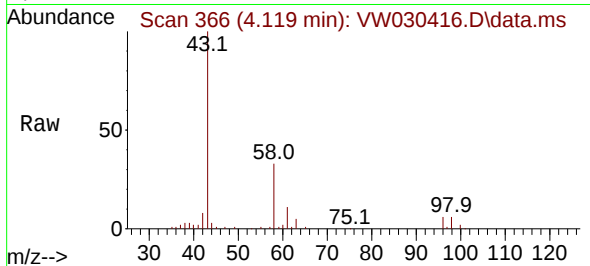




#13
Acetone
Concen: 97.785 ug/L
RT: 4.119 min Scan# 30
Delta R.T. 0.000 min
Lab File: VW030416.D
Acq: 07 Oct 2024 14:39

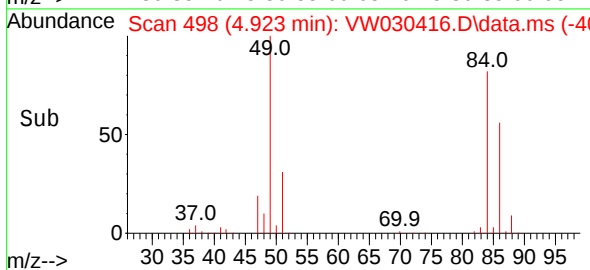
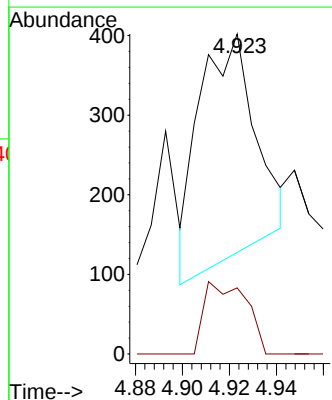
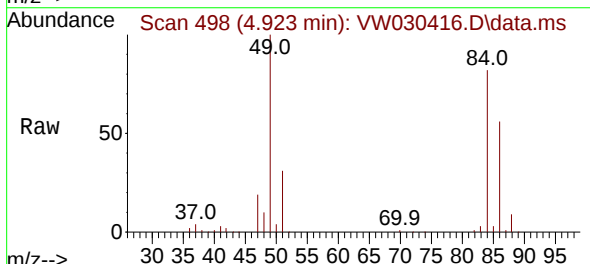
Instrument :
MSVOA_W
ClientSampleId :

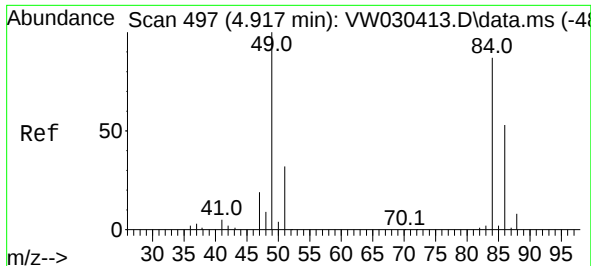
Tgt Ion: 43 Resp: 63824
Ion Ratio Lower Upper
43 100
58 34.1 0.0 64.0



#15
Methyl Acetate
Concen: 0.444 ug/L
RT: 4.923 min Scan# 498
Delta R.T. 0.250 min
Lab File: VW030416.D
Acq: 07 Oct 2024 14:39

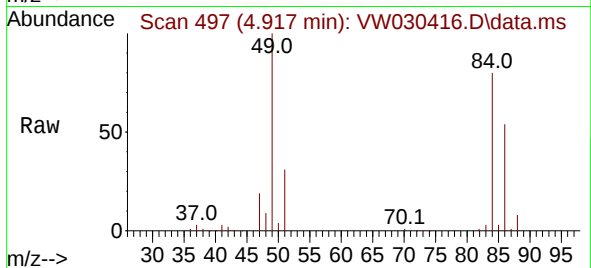
Tgt Ion: 43 Resp: 473
Ion Ratio Lower Upper
43 100
74 23.9 19.8 29.6



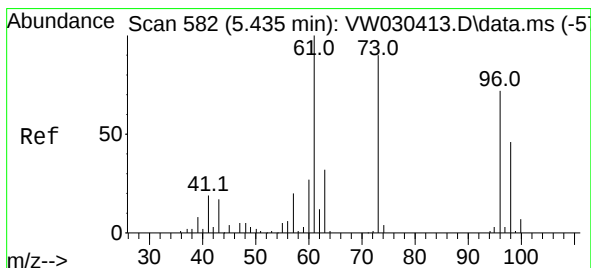
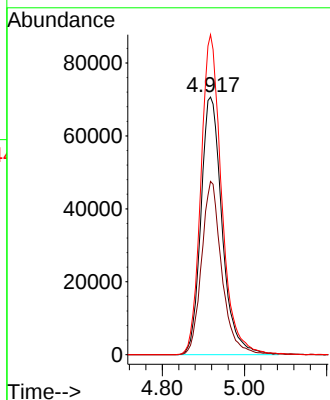
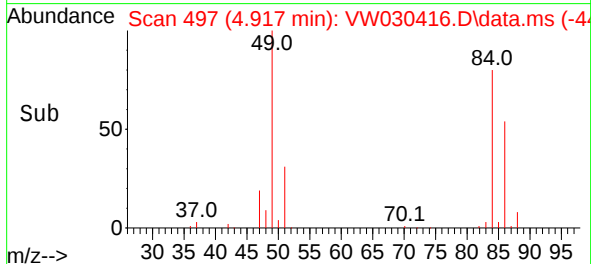


#16
Methylene chloride
Concen: 83.976 ug/L
RT: 4.917 min Scan# 497
Delta R.T. 0.000 min
Lab File: VW030416.D
Acq: 07 Oct 2024 14:39

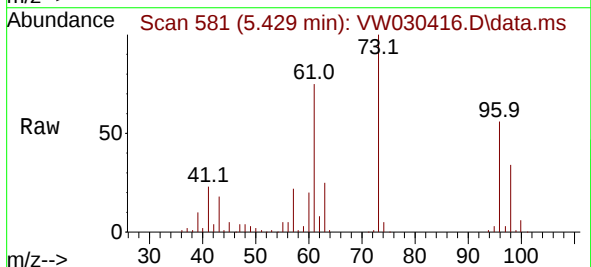
Instrument :
MSVOA_W
ClientSampleId :



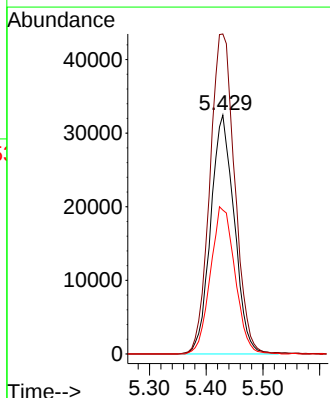
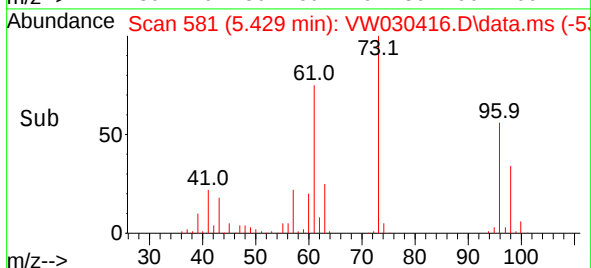
Tgt Ion: 84 Resp: 253071
Ion Ratio Lower Upper
84 100
86 67.3 44.8 83.2
49 124.2 83.6 155.2

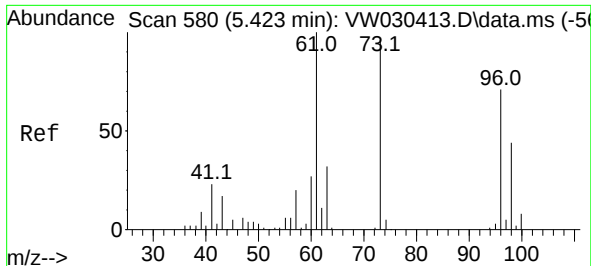


#17
trans-1,2-Dichloroethene
Concen: 35.574 ug/L
RT: 5.429 min Scan# 581
Delta R.T. -0.006 min
Lab File: VW030416.D
Acq: 07 Oct 2024 14:39



Tgt Ion: 96 Resp: 93941
Ion Ratio Lower Upper
96 100
61 134.0 100.3 186.3
98 60.2 46.3 86.1





#18

Methyl tert-butyl Ether

Concen: 47.827 ug/L

RT: 5.423 min Scan# 510

Delta R.T. 0.000 min

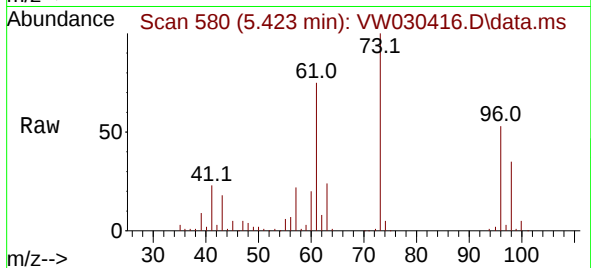
Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

Instrument :

MSVOA_W

ClientSampleId :



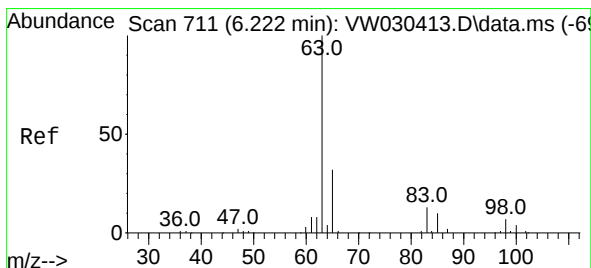
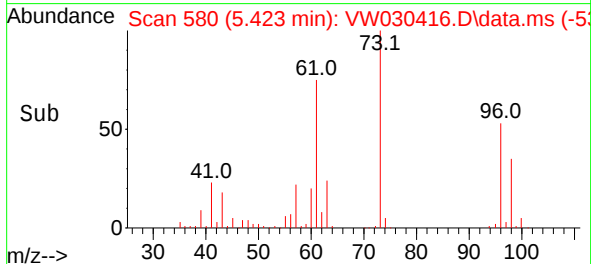
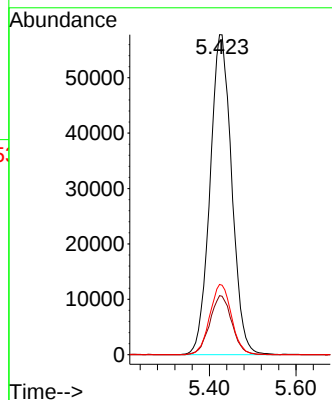
Tgt Ion: 73 Resp: 200880

Ion Ratio Lower Upper

73 100

43 18.8 15.9 23.9

57 21.9 17.6 26.4



#19

1,1-Dichloroethane

Concen: 100.592 ug/L

RT: 6.216 min Scan# 710

Delta R.T. -0.006 min

Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

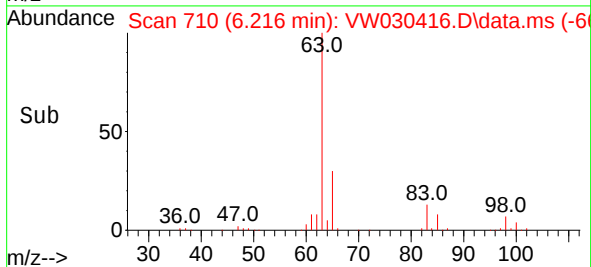
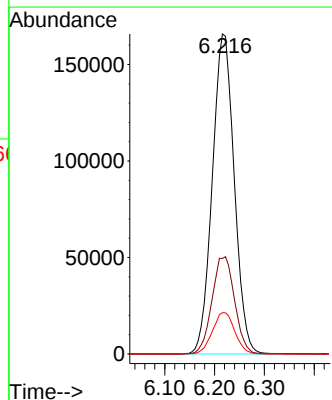
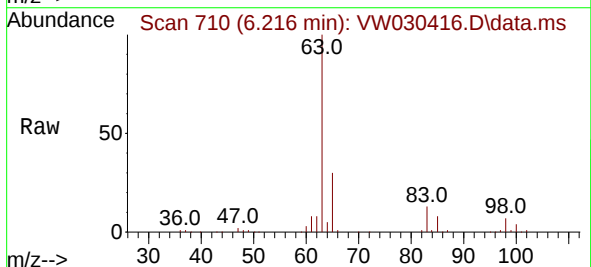
Tgt Ion: 63 Resp: 505867

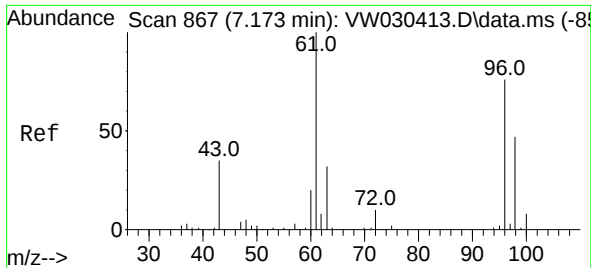
Ion Ratio Lower Upper

63 100

65 29.9 20.7 38.5

83 12.9 9.9 18.3





#22

2-Butanone

Concen: 246.161 ug/L

RT: 7.167 min Scan# 8

Delta R.T. -0.006 min

Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

Instrument :

MSVOA_W

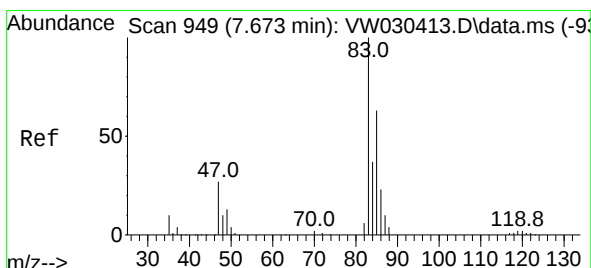
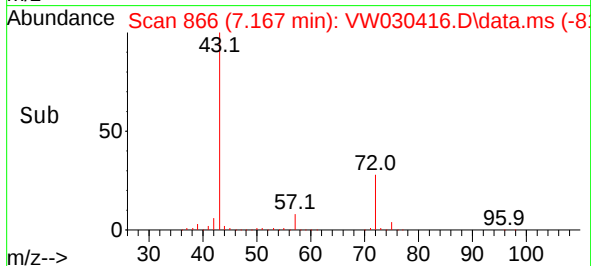
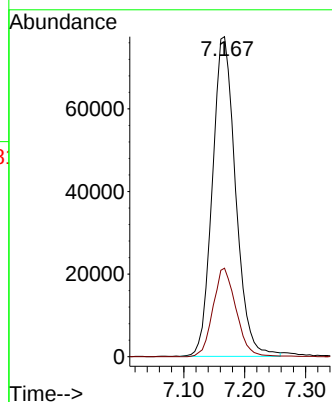
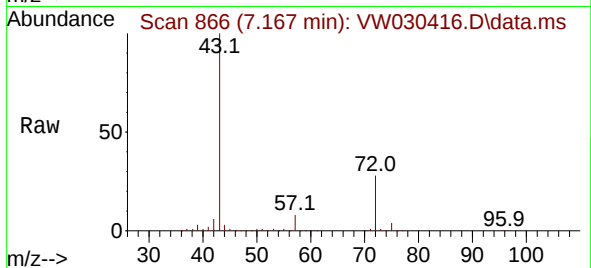
ClientSampleId :

Tgt Ion: 43 Resp: 205394

Ion Ratio Lower Upper

43 100

72 27.5 14.1 42.3



#25

Chloroform

Concen: 100.233 ug/L

RT: 7.679 min Scan# 950

Delta R.T. 0.006 min

Lab File: VW030416.D

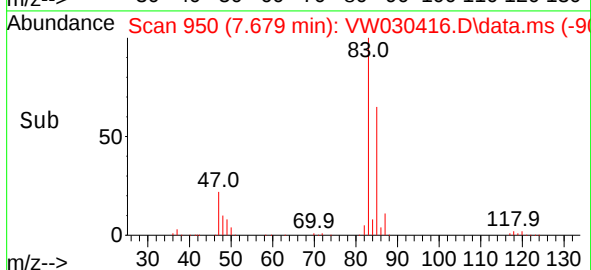
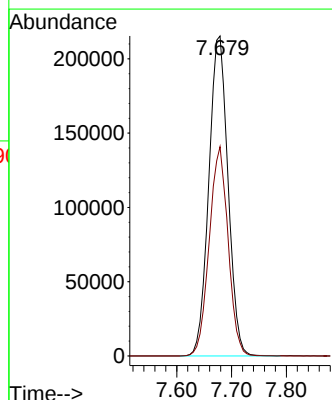
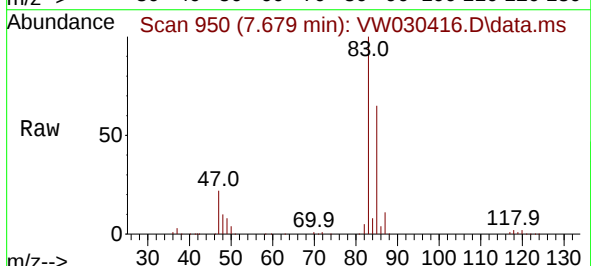
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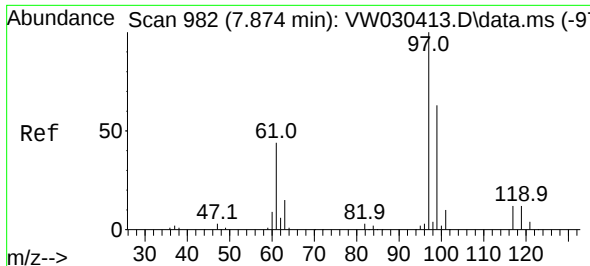
Tgt Ion: 83 Resp: 522754

Ion Ratio Lower Upper

83 100

85 65.4 45.8 85.0





#30

1,1,1-Trichloroethane

Concen: 0.779 ug/L

RT: 7.874 min Scan# 9

Delta R.T. 0.000 min

Lab File: VW030416.D

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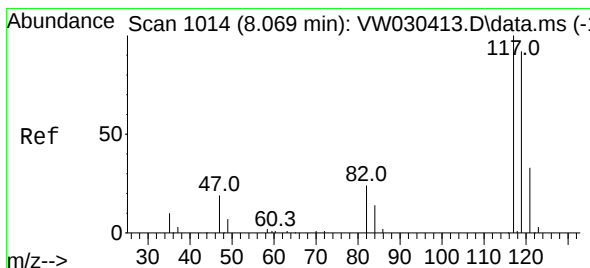
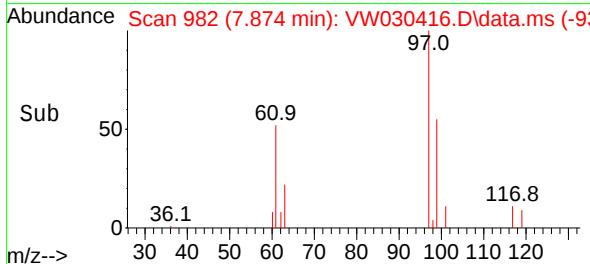
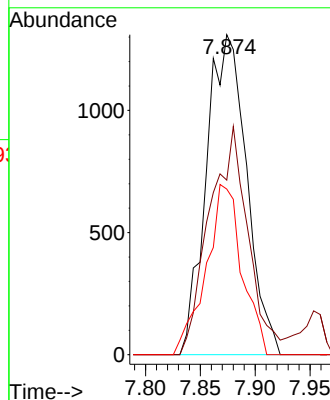
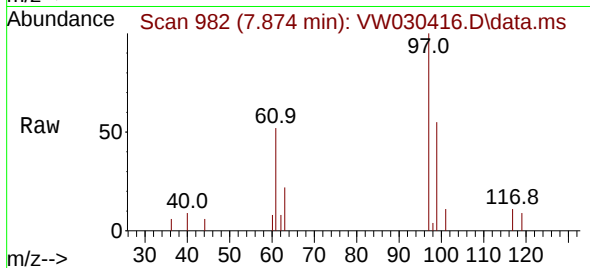
Tgt Ion: 97 Resp: 3350

Ion Ratio Lower Upper

97 100

99 68.4 50.9 76.3

61 47.3 34.1 51.1



#31

Carbon tetrachloride

Concen: 18.662 ug/L

RT: 8.063 min Scan# 1013

Delta R.T. -0.006 min

Lab File: VW030416.D

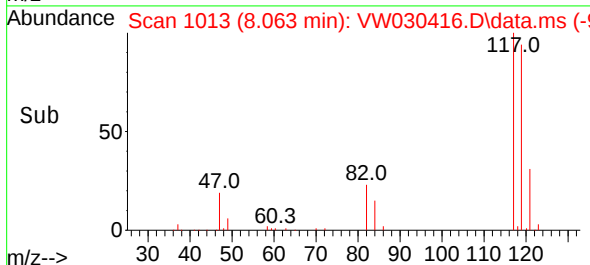
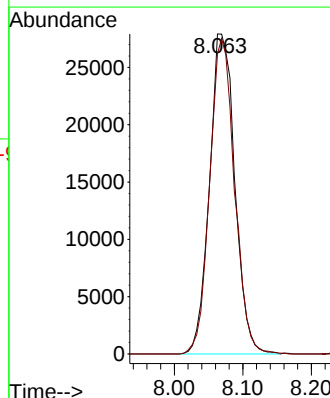
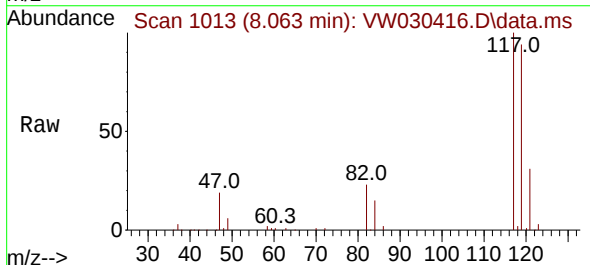
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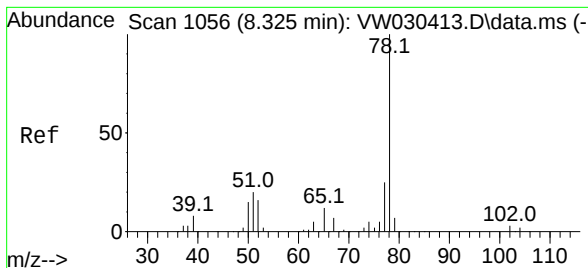
Tgt Ion: 117 Resp: 71737

Ion Ratio Lower Upper

117 100

119 96.4 75.5 113.3





#33

Benzene

Concen: 73.829 ug/L

RT: 8.325 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VW030416.D

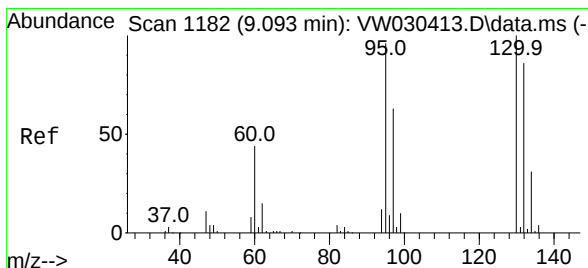
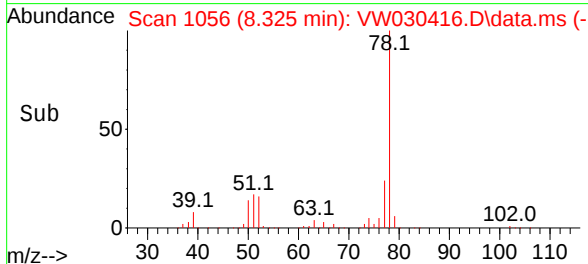
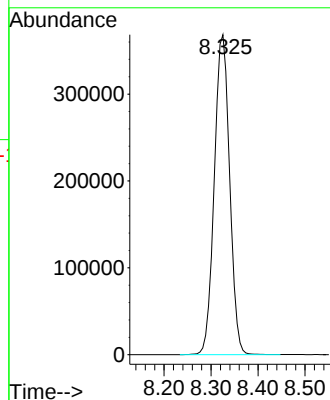
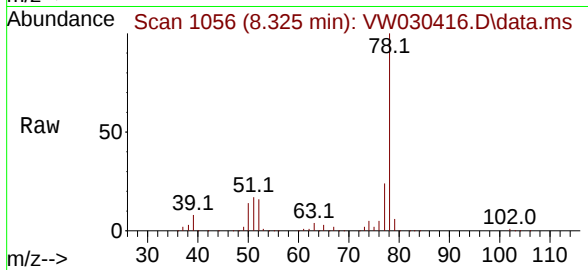
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Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion: 78 Resp: 834899



#34

Trichloroethene

Concen: 108.405 ug/L

RT: 9.093 min Scan# 1182

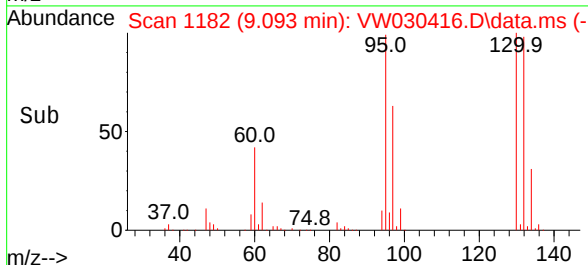
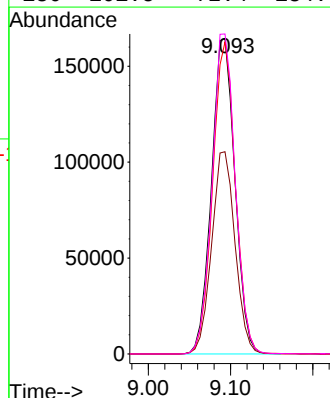
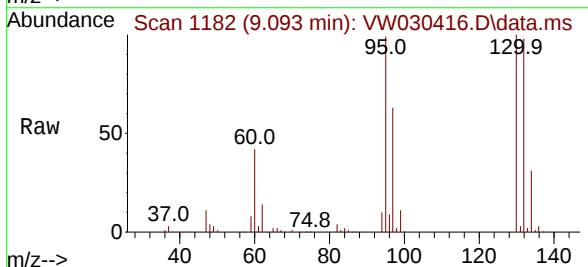
Delta R.T. 0.000 min

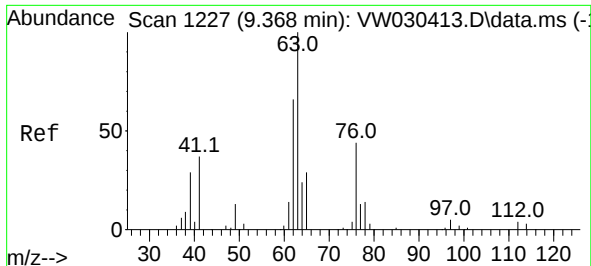
Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

Tgt Ion: 95 Resp: 326087

Ion	Ratio	Lower	Upper
95	100		
97	64.1	47.5	88.1
132	98.9	66.7	123.9
130	101.5	72.4	134.5





#37

1,2-Dichloropropane

Concen: 41.017 ug/L

RT: 9.368 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

Instrument :

MSVOA_W

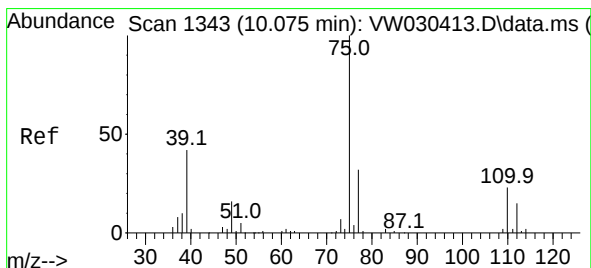
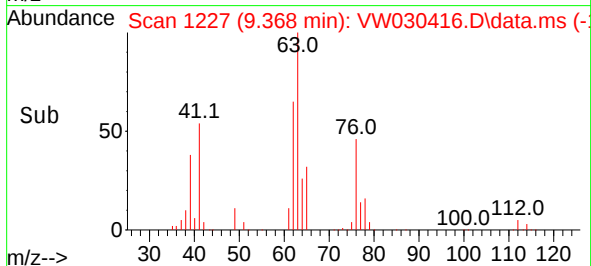
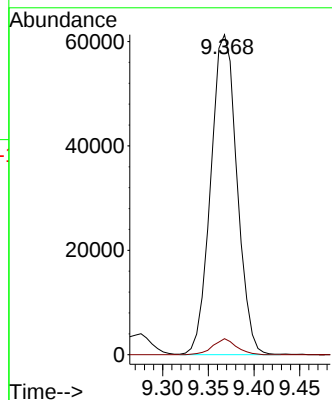
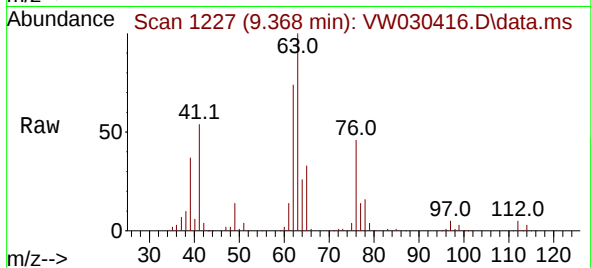
ClientSampleId :

Tgt Ion: 63 Resp: 122382

Ion Ratio Lower Upper

63 100

112 4.5 3.4 5.2



#39

cis-1,3-Dichloropropene

Concen: 69.601 ug/L

RT: 10.069 min Scan# 1342

Delta R.T. -0.006 min

Lab File: VW030416.D

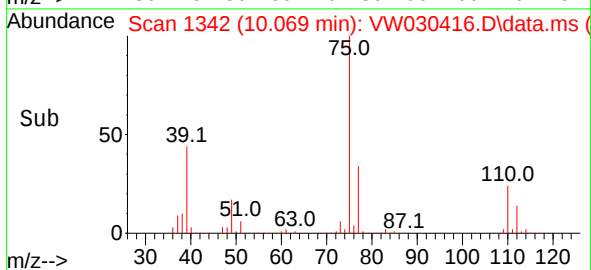
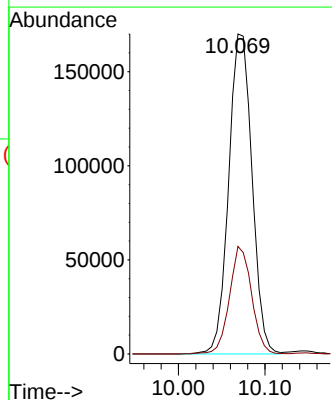
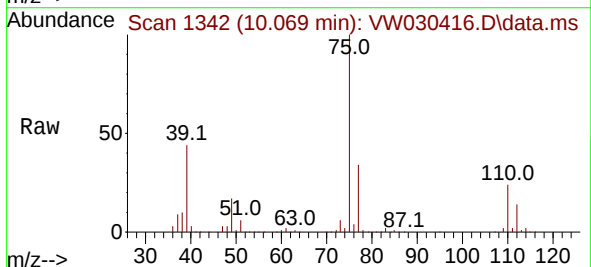
Acq: 07 Oct 2024 14:39

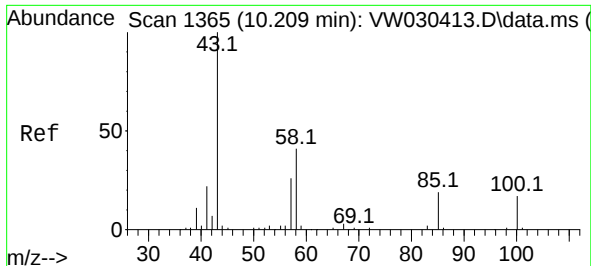
Tgt Ion: 75 Resp: 318427

Ion Ratio Lower Upper

75 100

77 33.6 22.0 40.8

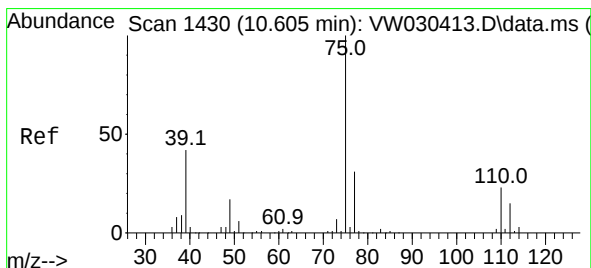
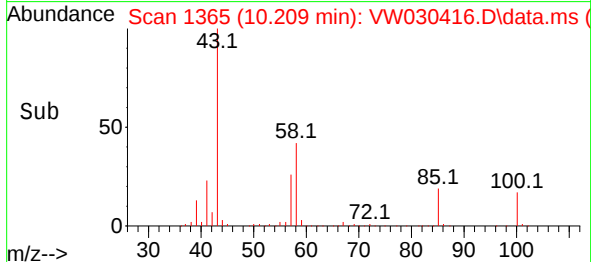
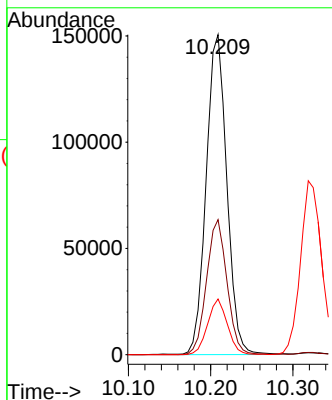
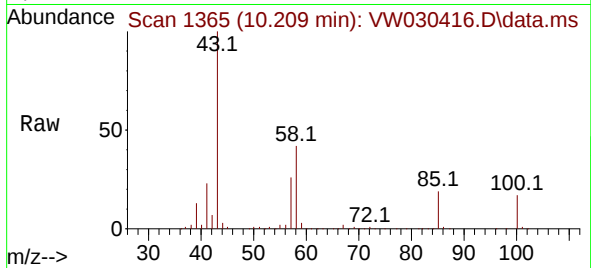




#40
4-Methyl-2-pentanone
Concen: 171.364 ug/L
RT: 10.209 min Scan# 1365
Delta R.T. 0.000 min
Lab File: VW030416.D
Acq: 07 Oct 2024 14:39

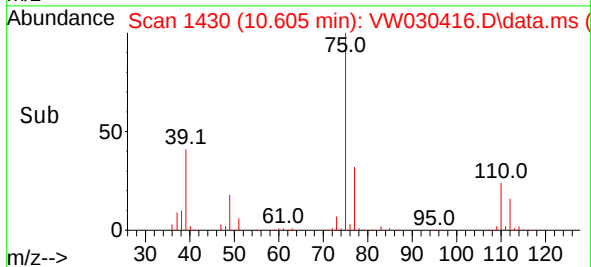
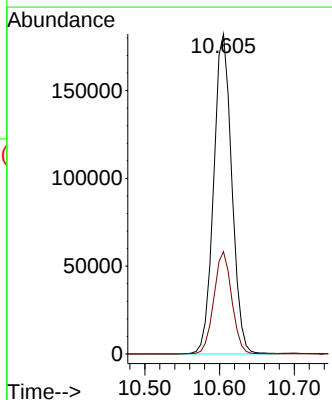
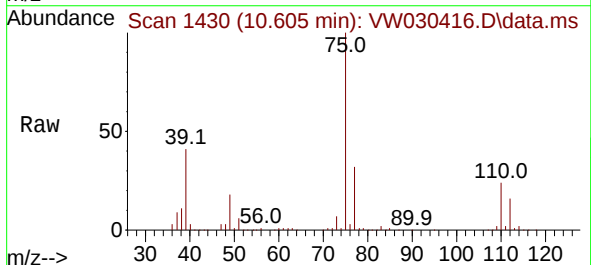
Instrument :
MSVOA_W
ClientSampleId :

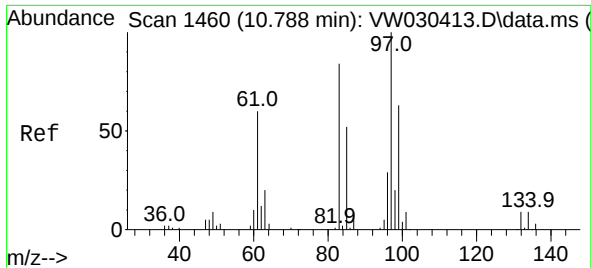
Tgt Ion: 43 Resp: 262988
Ion Ratio Lower Upper
43 100
58 41.8 32.6 48.8
100 16.6 12.5 18.7



#44
trans-1,3-Dichloropropene
Concen: 80.940 ug/L
RT: 10.605 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VW030416.D
Acq: 07 Oct 2024 14:39

Tgt Ion: 75 Resp: 306836
Ion Ratio Lower Upper
75 100
77 32.0 20.8 38.6





#45

1,1,2-Trichloroethane

Concen: 56.773 ug/L

RT: 10.782 min Scan# 1459

Delta R.T. -0.006 min

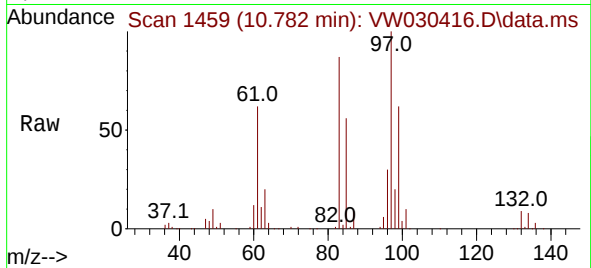
Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 97 Resp: 119374

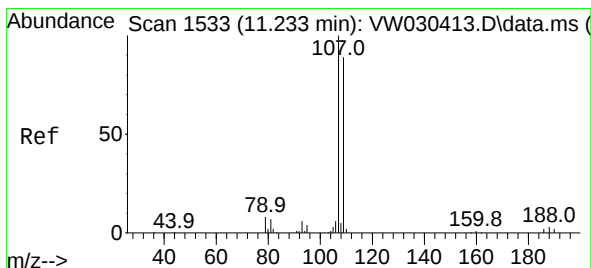
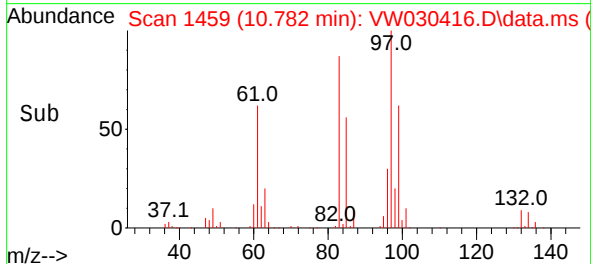
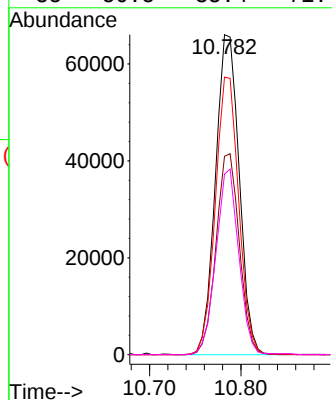
Ion Ratio Lower Upper

97 100

99 62.0 40.8 75.8

83 86.8 59.1 109.7

85 56.5 38.4 71.4



#50

1,2-Dibromoethane

Concen: 53.671 ug/L

RT: 11.233 min Scan# 1533

Delta R.T. 0.000 min

Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

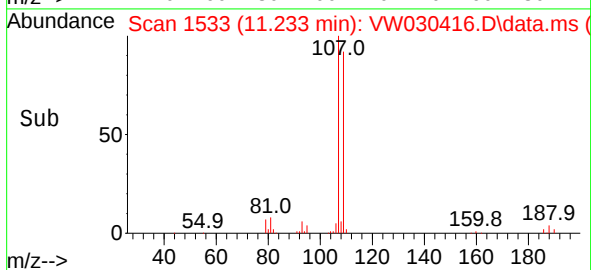
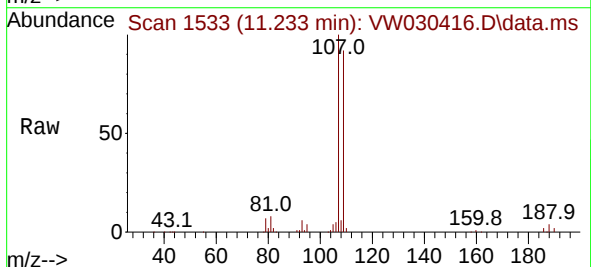
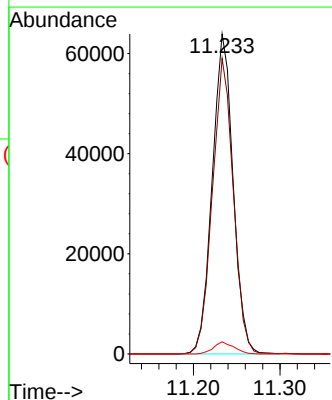
Tgt Ion:107 Resp: 106782

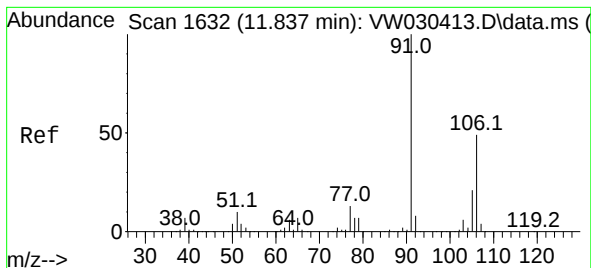
Ion Ratio Lower Upper

107 100

109 92.3 67.8 125.8

188 3.8 2.9 4.3





#53

m,p-Xylene

Concen: 56.802 ug/L

RT: 11.831 min Scan# 1

Delta R.T. -0.006 min

Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

Instrument :

MSVOA_W

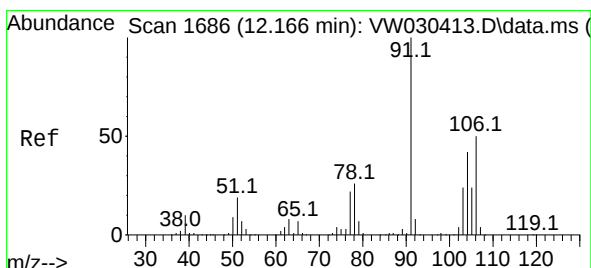
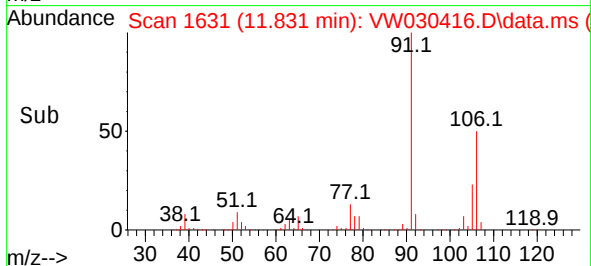
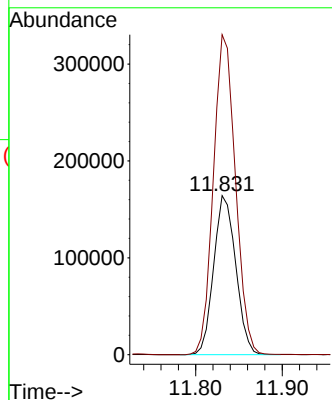
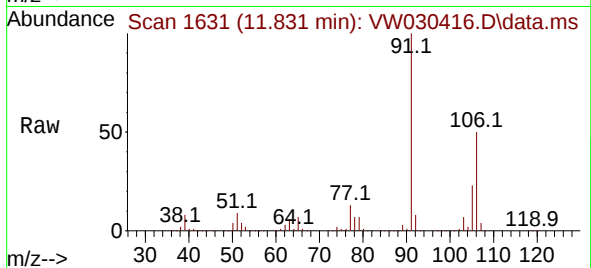
ClientSampleId :

Tgt Ion:106 Resp: 290818

Ion Ratio Lower Upper

106 100

91 201.3 144.4 268.2



#54

o-Xylene

Concen: 74.394 ug/L

RT: 12.166 min Scan# 1686

Delta R.T. 0.000 min

Lab File: VW030416.D

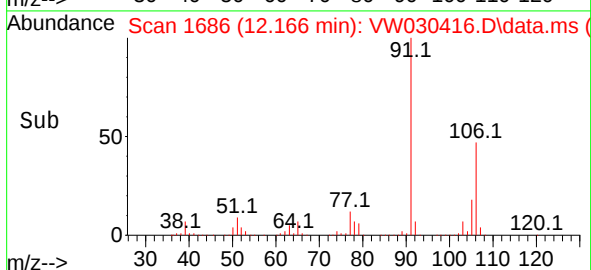
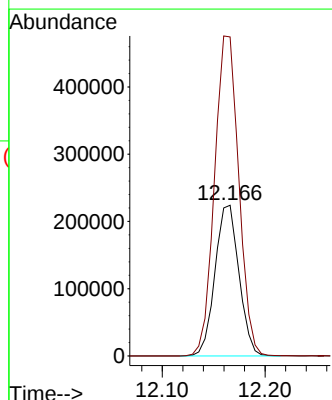
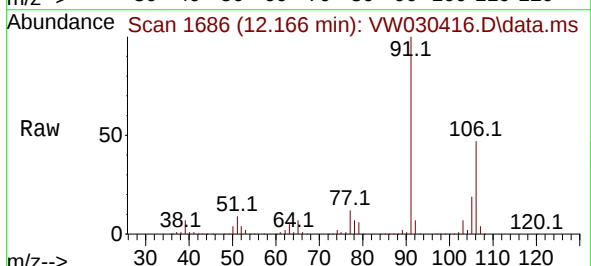
Acq: 07 Oct 2024 14:39

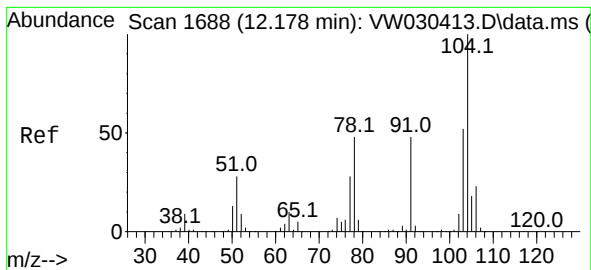
Tgt Ion:106 Resp: 362526

Ion Ratio Lower Upper

106 100

91 211.7 153.6 285.2





#55

Styrene

Concen: 2.254 ug/L

RT: 12.160 min Scan# 1

Delta R.T. -0.018 min

Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

Instrument :

MSVOA_W

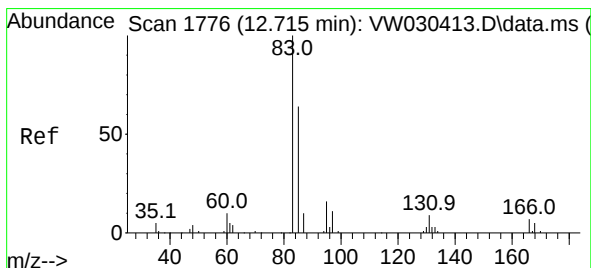
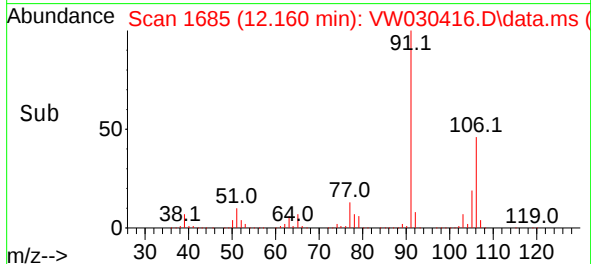
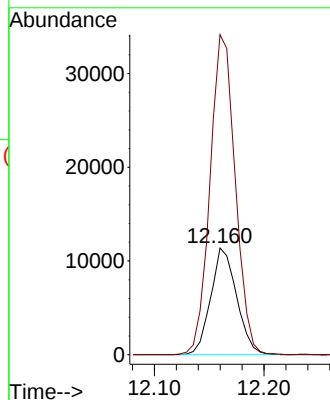
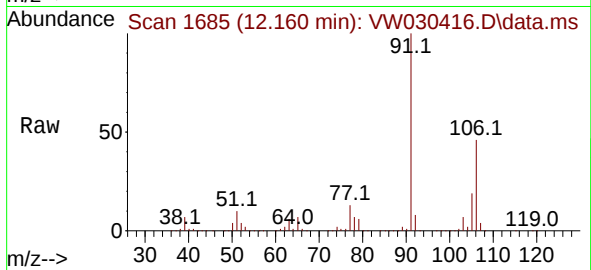
ClientSampleId :

Tgt Ion:104 Resp: 18741

Ion Ratio Lower Upper

104 100

78 299.9 34.6 64.3#



#57

1,1,2,2-Tetrachloroethane

Concen: 55.488 ug/L

RT: 12.708 min Scan# 1775

Delta R.T. -0.006 min

Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

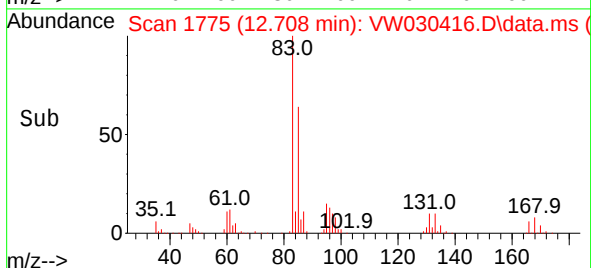
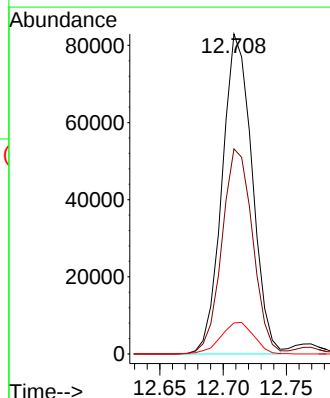
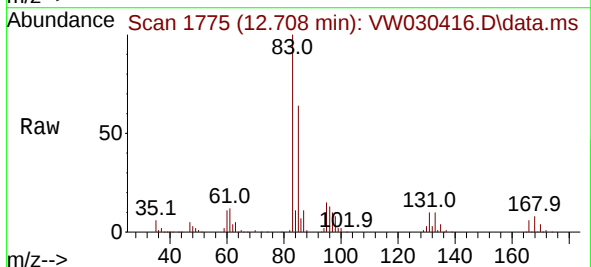
Tgt Ion: 83 Resp: 136642

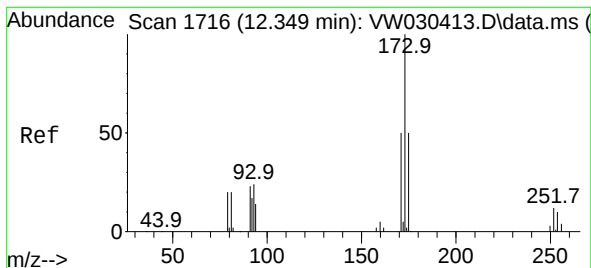
Ion Ratio Lower Upper

83 100

85 64.1 43.9 81.5

131 9.7 7.1 10.7





#59

Bromoform

Concen: 21.173 ug/L

RT: 12.349 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

Instrument :

MSVOA_W

ClientSampleId :

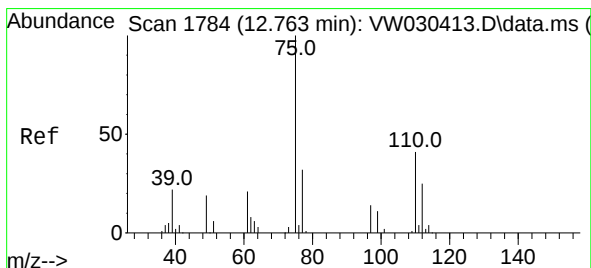
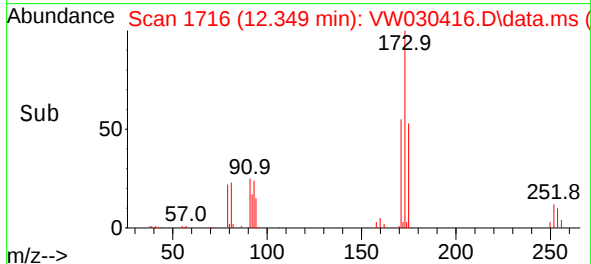
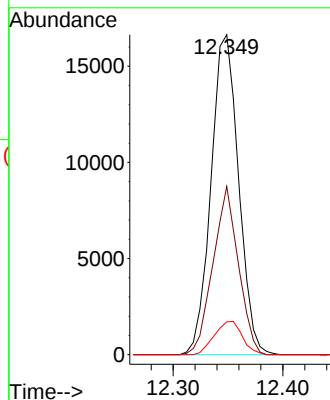
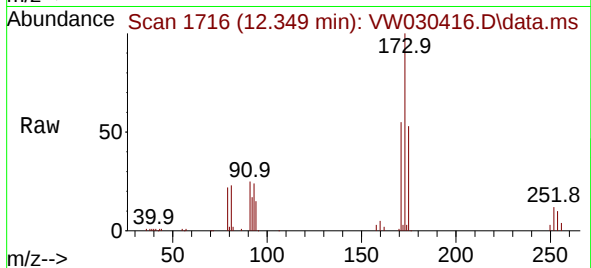
Tgt Ion:173 Resp: 29048

Ion Ratio Lower Upper

173 100

175 48.5 38.7 58.1

254 10.5 7.4 11.2



#61

1,2,3-Trichloropropane

Concen: 88.700 ug/L

RT: 12.763 min Scan# 1784

Delta R.T. 0.000 min

Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

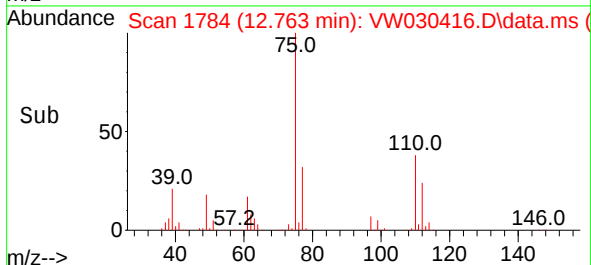
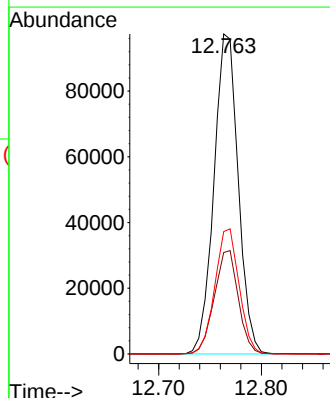
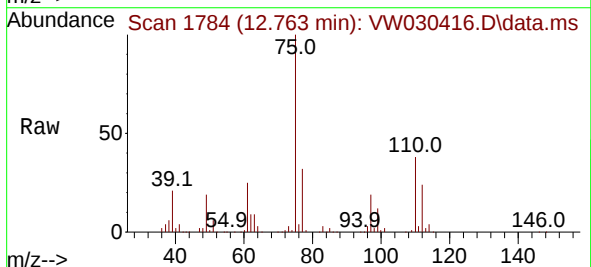
Tgt Ion: 75 Resp: 159686

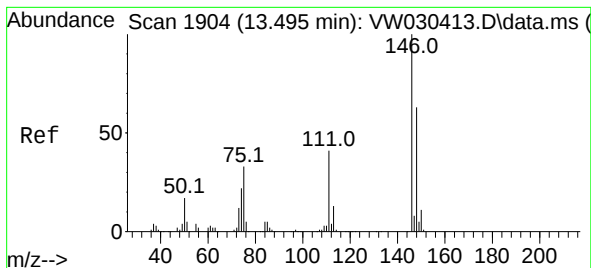
Ion Ratio Lower Upper

75 100

77 32.1 25.4 38.2

110 39.1 30.8 46.2





#64

1,3-Dichlorobenzene

Concen: 46.010 ug/L

RT: 13.495 min Scan# 1904

Delta R.T. 0.000 min

Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

Instrument :

MSVOA_W

ClientSampleId :

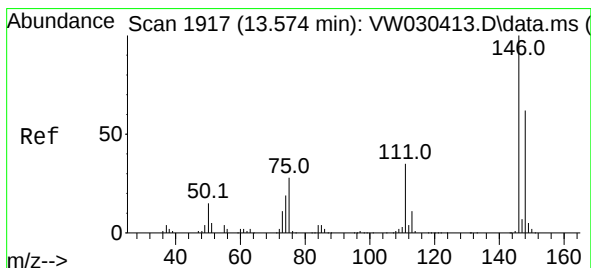
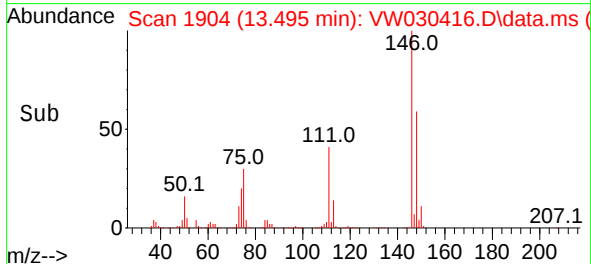
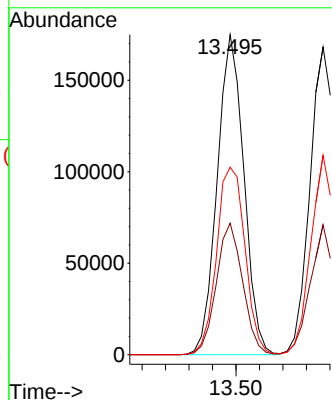
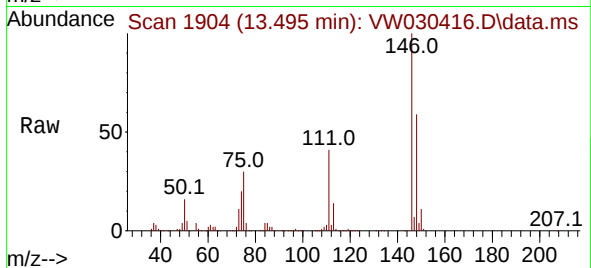
Tgt Ion:146 Resp: 276378

Ion Ratio Lower Upper

146 100

111 41.1 33.2 61.6

148 58.6 50.4 93.6



#65

1,4-Dichlorobenzene

Concen: 43.514 ug/L

RT: 13.574 min Scan# 1917

Delta R.T. 0.000 min

Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

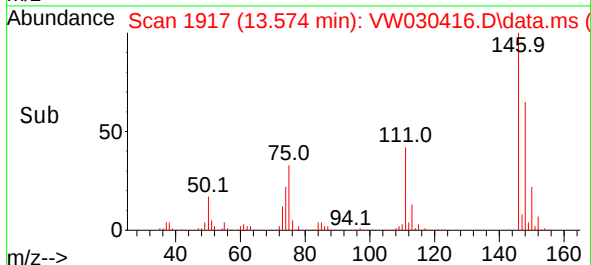
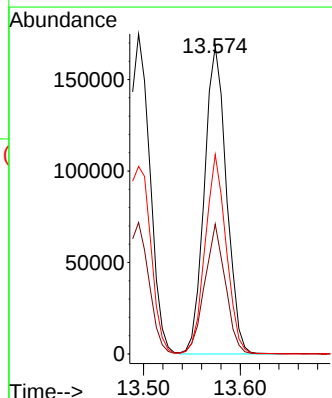
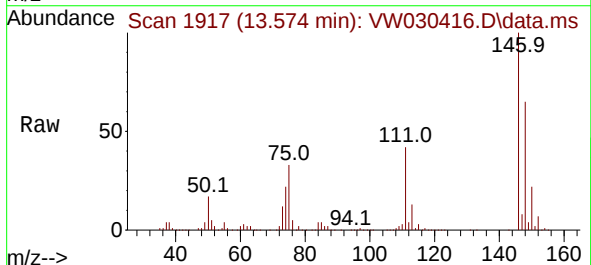
Tgt Ion:146 Resp: 267019

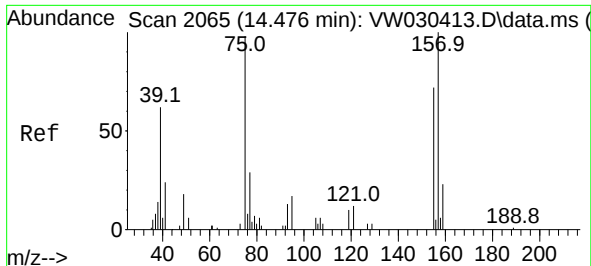
Ion Ratio Lower Upper

146 100

111 42.3 29.1 54.1

148 64.8 42.1 78.1





#68

1,2-Dibromo-3-chloropropane

Concen: 25.017 ug/L

RT: 14.476 min Scan# 2065

Delta R.T. 0.000 min

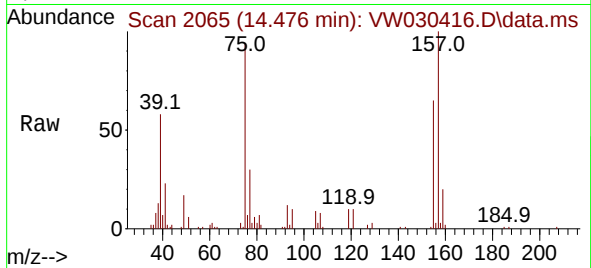
Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

Instrument :

MSVOA_W

ClientSampleId :



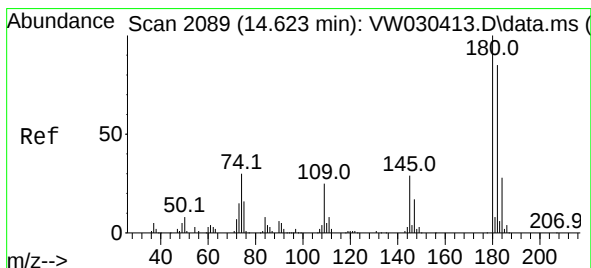
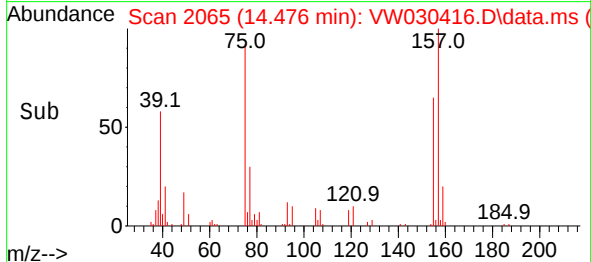
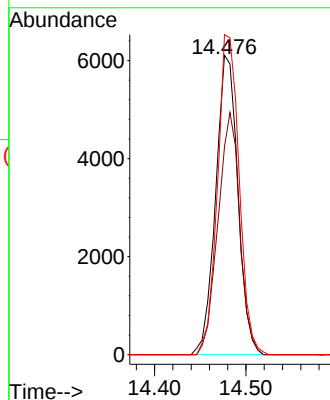
Tgt Ion: 75 Resp: 10319

Ion Ratio Lower Upper

75 100

155 69.5 60.1 90.1

157 106.8 74.3 111.5



#69

1,3,5-Trichlorobenzene

Concen: 19.191 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. 0.506 min

Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

Tgt Ion:180 Resp: 79563

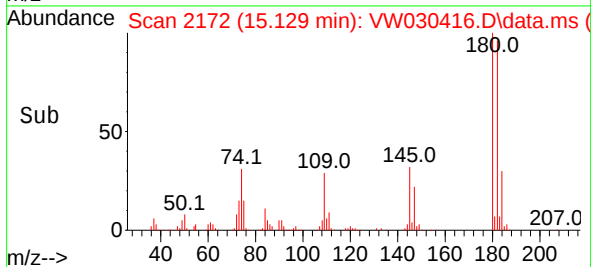
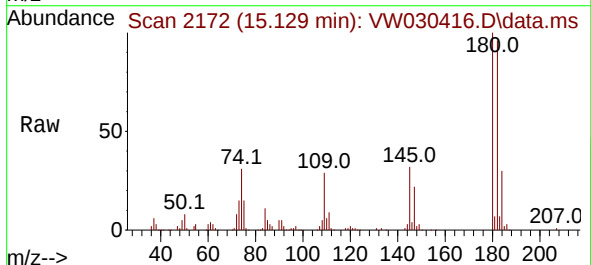
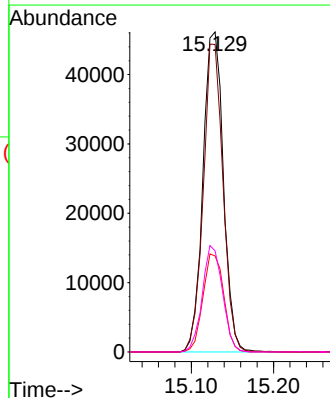
Ion Ratio Lower Upper

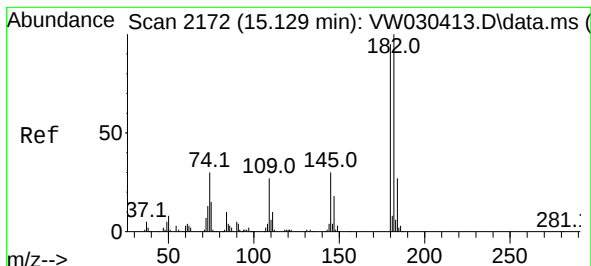
180 100

182 92.8 77.4 116.2

184 31.2 24.5 36.7

145 32.9 24.2 36.2





#70

1,2,4-trichlorobenzene

Concen: 23.178 ug/L

RT: 15.129 min Scan# 2172

Delta R.T. 0.000 min

Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

Instrument :

MSVOA_W

ClientSampleId :

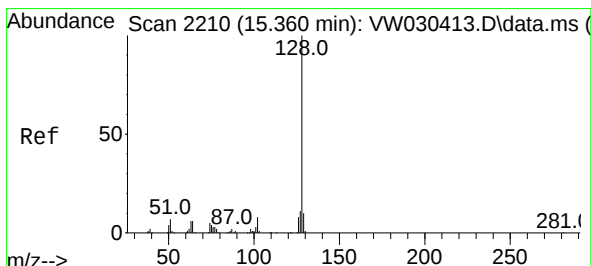
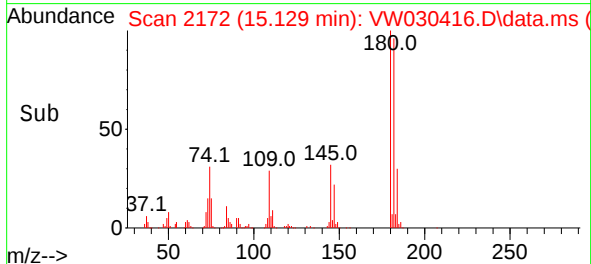
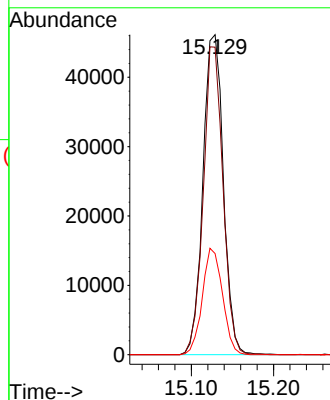
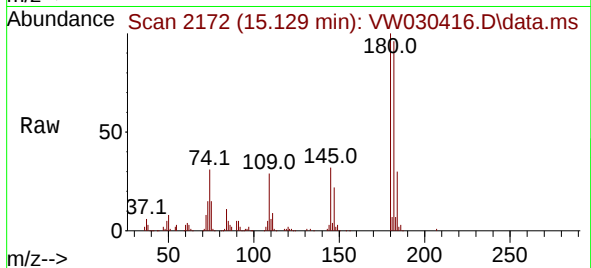
Tgt Ion:180 Resp: 79563

Ion Ratio Lower Upper

180 100

182 92.8 77.2 115.8

145 32.9 25.3 37.9



#71

Naphthalene

Concen: 89.542 ug/L

RT: 15.360 min Scan# 2210

Delta R.T. 0.000 min

Lab File: VW030416.D

Acq: 07 Oct 2024 14:39

Tgt Ion:128 Resp: 562208

Ion Ratio Lower Upper

128 100

127 13.0 10.8 16.2

129 10.8 8.8 13.2

