

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW102025\
 Data File : VW032396.D
 Acq On : 20 Oct 2025 17:51
 Operator : SY/MD
 Sample : Q3395-01
 Misc : 5.33g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 PR132-S09-000051-20251017

Quant Time: Oct 21 01:32:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 02 21:24:16 2025
 Response via : Initial Calibration

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

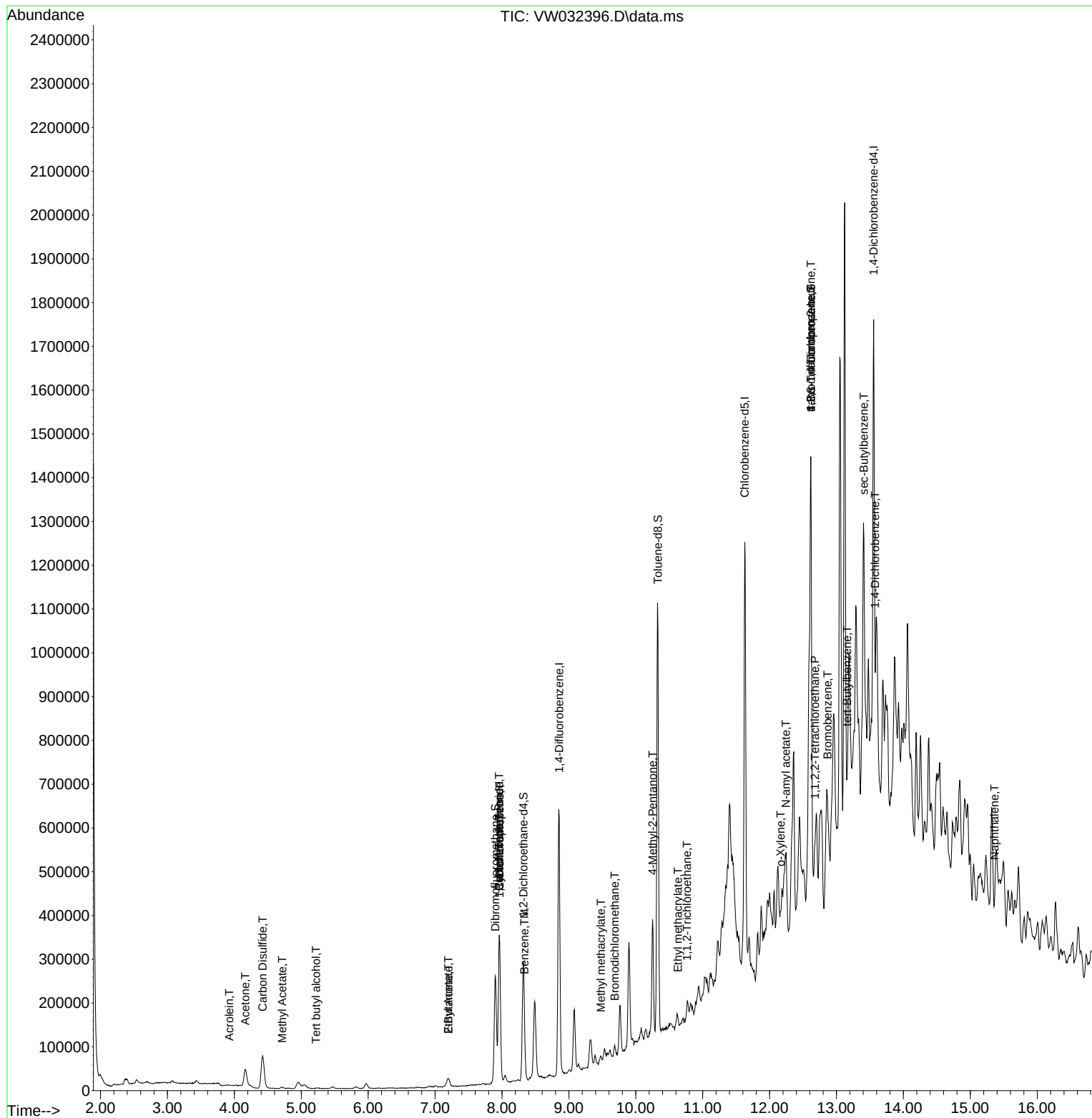
Internal Standards						
1) Pentafluorobenzene	7.959	168	242117	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	528270	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	532171	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	278056	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	214866	60.844	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 121.680%			
35) Dibromofluoromethane	7.898	113	184326	53.879	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 107.760%			
50) Toluene-d8	10.331	98	672570	53.266	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 106.540%			
62) 4-Bromofluorobenzene	12.617	95	309089	64.765	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 129.540%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.222	59	1291	4.830	ug/l	100
13) Acrolein	3.923	56	1311	3.022	ug/l #	14
16) Acetone	4.161	43	77052	78.799	ug/l	99
17) Carbon Disulfide	4.423	76	184469	24.777	ug/l	96
18) Methyl Acetate	4.716	43	7397	2.641	ug/l	99
20) Methylene Chloride	4.954	84	11285	Below Cal		96
25) 2-Butanone	7.197	43	29021	21.792	ug/l	98
31) Cyclohexane	7.959	56	8137	1.637	ug/l #	35
36) 1,1-Dichloropropene	7.965	75	21271	4.406	ug/l #	52
37) Ethyl Acetate	7.197	43	29021	9.030	ug/l #	71
38) Carbon Tetrachloride	7.959	117	27027	5.949	ug/l #	17
40) Benzene	8.337	78	23201	1.533	ug/l	99
47) Bromodichloromethane	9.685	83	13649	2.569	ug/l #	34
48) Methyl methacrylate	9.477	41	4298	1.551	ug/l #	28
51) 4-Methyl-2-Pentanone	10.252	43	24727	7.488	ug/l #	73
55) 1,1,2-Trichloroethane	10.764	97	3322	1.070	ug/l #	1
56) Ethyl methacrylate	10.630	69	10929	2.515	ug/l #	84
69) o-Xylene	12.166	106	7772	1.104	ug/l	71
74) N-amyl acetate	12.245	43	68420	11.274	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.678	83	19555	4.140	ug/l #	25
76) 1,2,3-Trichloropropane	12.617	75	137685	37.628	ug/l #	1
77) Bromobenzene	12.867	156	63188	13.779	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	137685	95.323	ug/l #	5
83) tert-Butylbenzene	13.160	119	17028	1.262	ug/l #	25
85) sec-Butylbenzene	13.410	105	27983	1.357	ug/l #	56
88) 1,4-Dichlorobenzene	13.574	146	9844	1.060	ug/l #	1
95) Naphthalene	15.360	128	20720	1.714	ug/l #	81

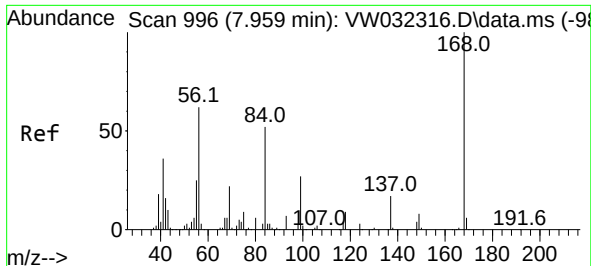
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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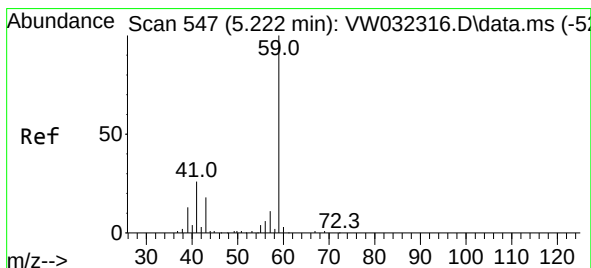
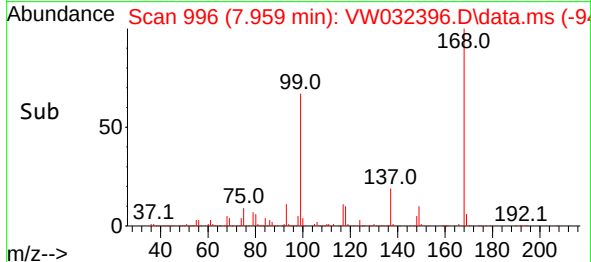
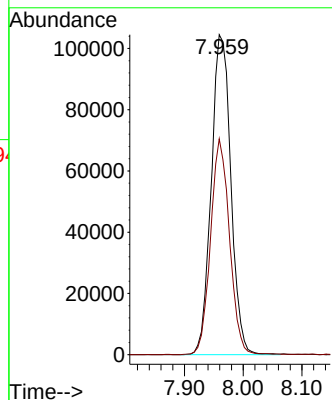
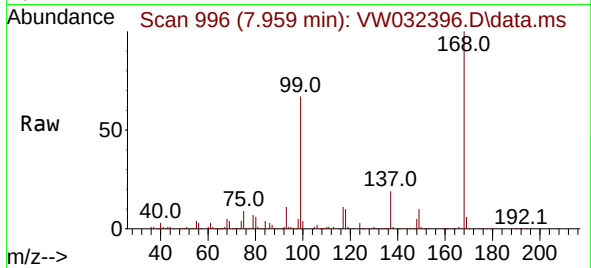




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.006 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

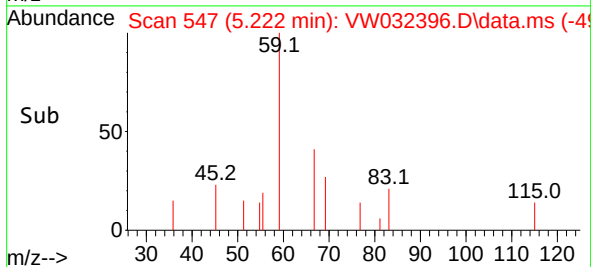
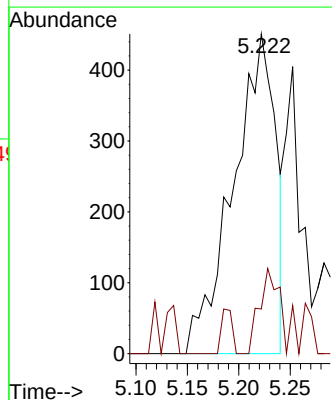
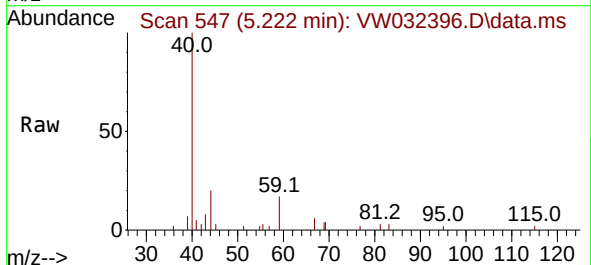
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MSVOA_W
ClientSampleId :
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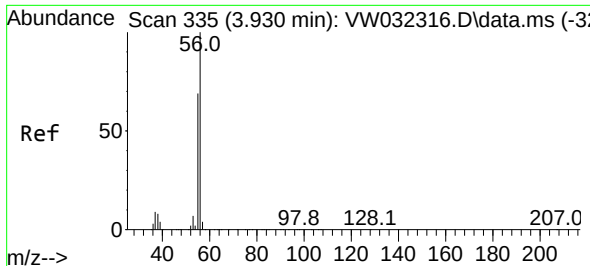
Tgt Ion:168 Resp: 242117
Ion Ratio Lower Upper
168 100
99 67.5 49.3 73.9



#11
Tert butyl alcohol
Concen: 4.830 ug/l
RT: 5.222 min Scan# 547
Delta R.T. -0.000 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

Tgt Ion: 59 Resp: 1291
Ion Ratio Lower Upper
59 100
57 12.2 9.8 14.6

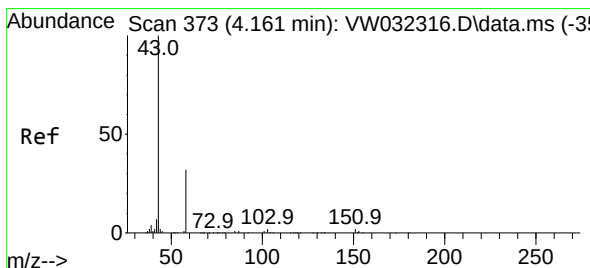
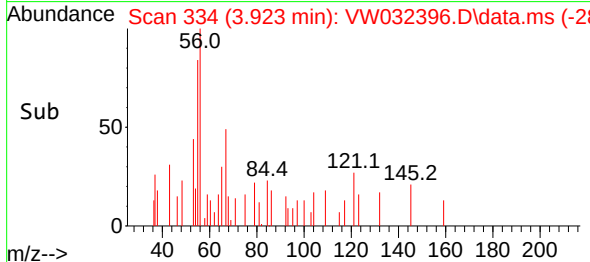
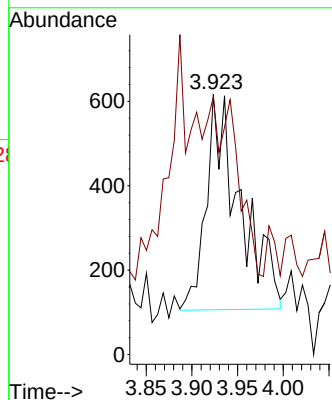
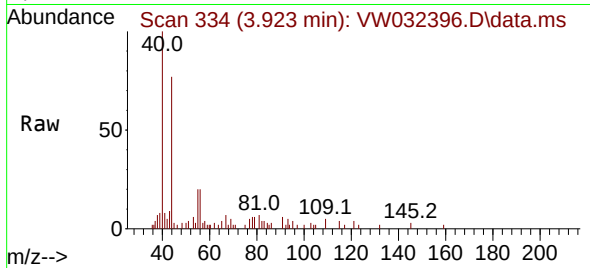




#13
Acrolein
Concen: 3.022 ug/l
RT: 3.923 min Scan# 311
Delta R.T. -0.006 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

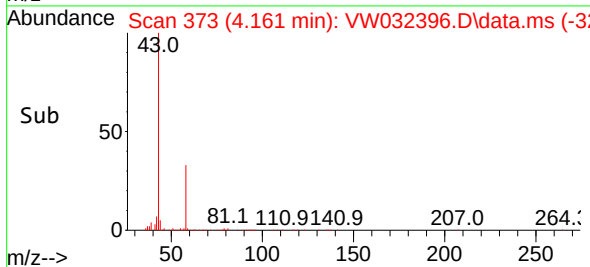
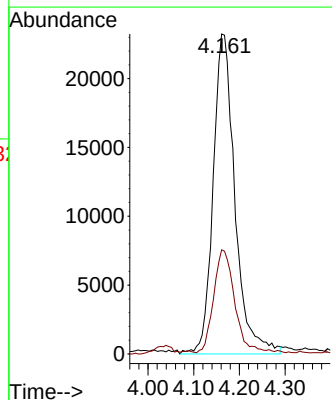
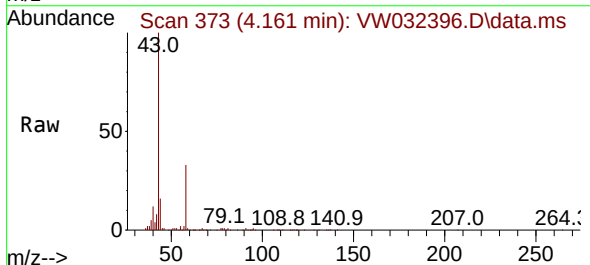
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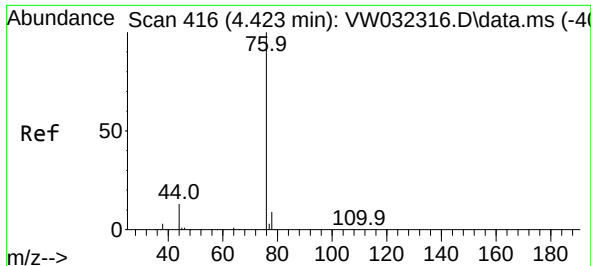
Tgt Ion: 56 Resp: 1311
Ion Ratio Lower Upper
56 100
55 0.0 56.4 84.6#



#16
Acetone
Concen: 78.799 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

Tgt Ion: 43 Resp: 77052
Ion Ratio Lower Upper
43 100
58 32.0 25.3 37.9

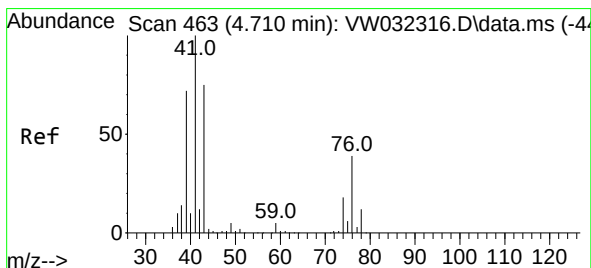
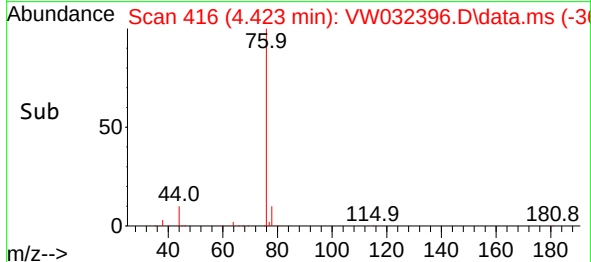
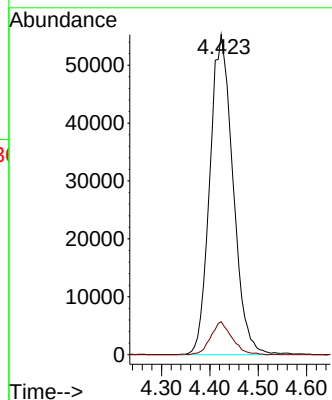
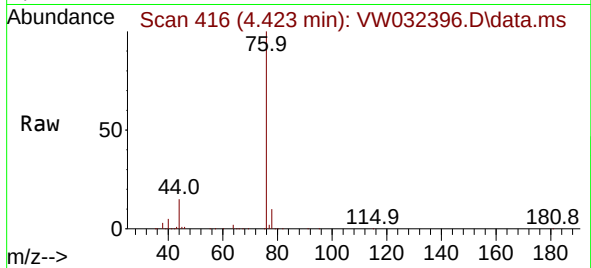




#17
Carbon Disulfide
Concen: 24.777 ug/l
RT: 4.423 min Scan# 416
Delta R.T. -0.000 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

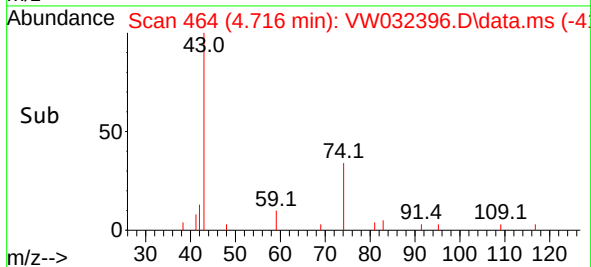
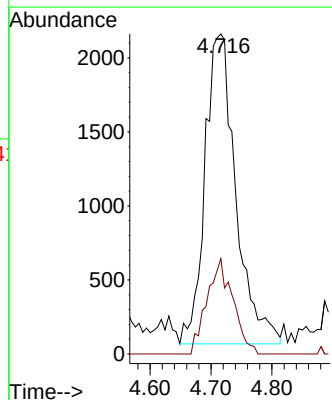
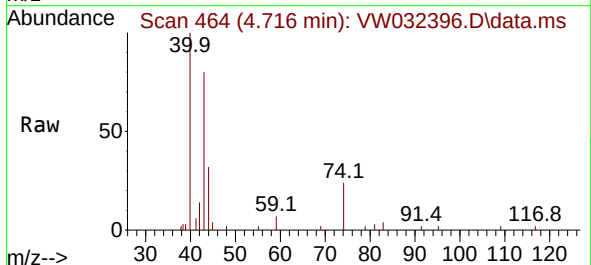
Instrument :
MSVOA_W
ClientSampleId :
PR132-S09-000051-20251017

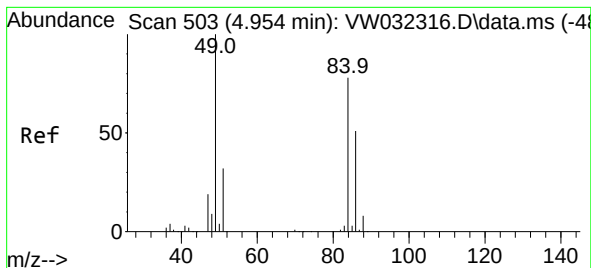
Tgt Ion: 76 Resp: 184469
Ion Ratio Lower Upper
76 100
78 10.3 7.0 10.6



#18
Methyl Acetate
Concen: 2.641 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

Tgt Ion: 43 Resp: 7397
Ion Ratio Lower Upper
43 100
74 25.7 20.2 30.4





#20

Methylene Chloride

Concen: Below Cal

RT: 4.954 min Scan# 503

Delta R.T. -0.006 min

Lab File: VW032396.D

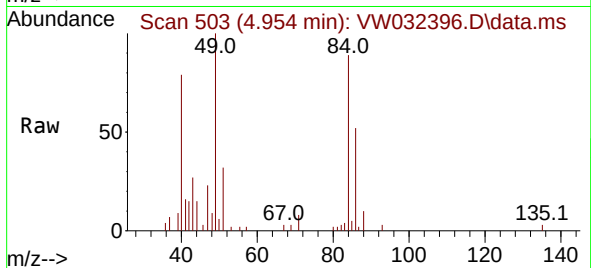
Acq: 20 Oct 2025 17:51

Instrument :

MSVOA_W

ClientSampleId :

PR132-S09-000051-20251017



Tgt Ion: 84 Resp: 11285

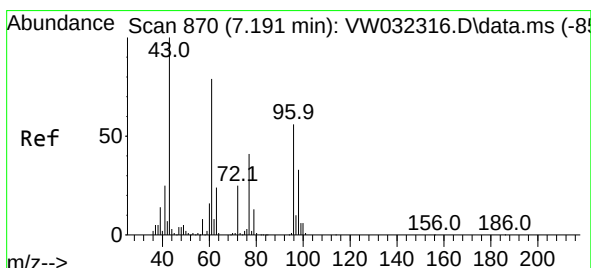
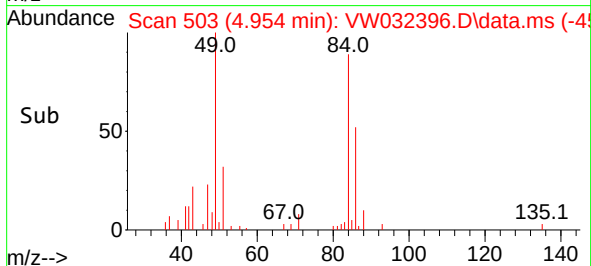
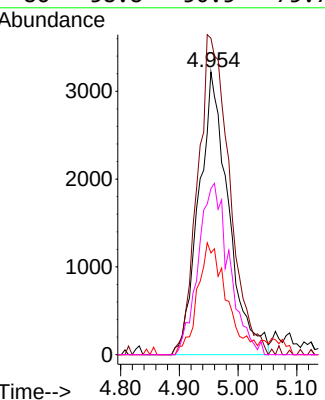
Ion Ratio Lower Upper

84 100

49 112.0 92.2 138.4

51 36.0 31.0 46.6

86 58.8 50.5 75.7



#25

2-Butanone

Concen: 21.792 ug/l

RT: 7.197 min Scan# 871

Delta R.T. 0.006 min

Lab File: VW032396.D

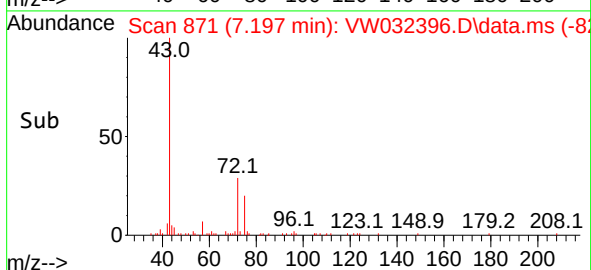
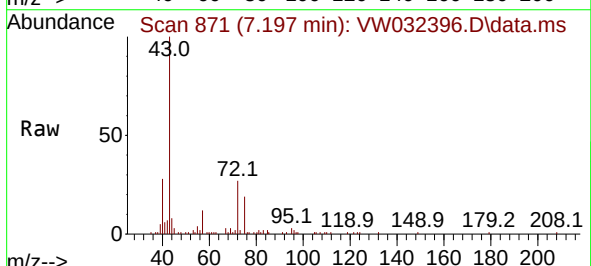
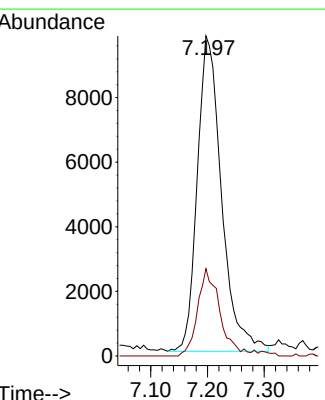
Acq: 20 Oct 2025 17:51

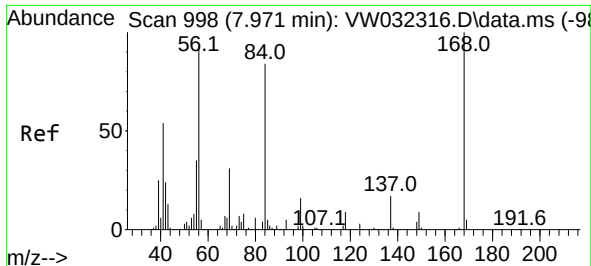
Tgt Ion: 43 Resp: 29021

Ion Ratio Lower Upper

43 100

72 27.7 21.4 32.2

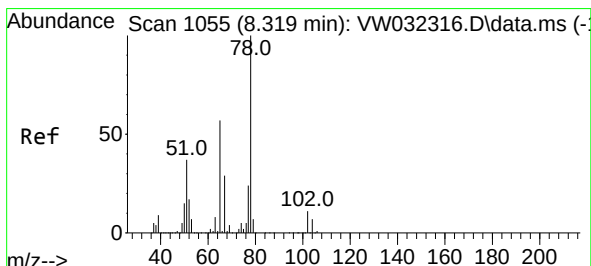
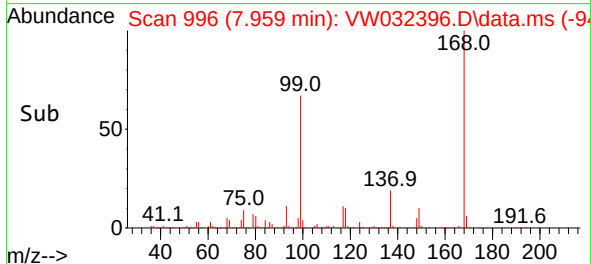
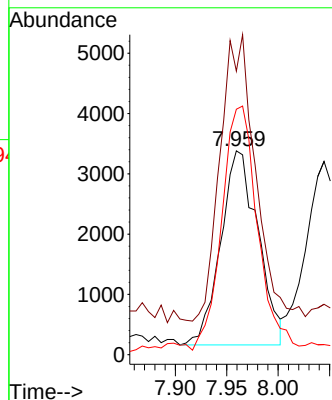
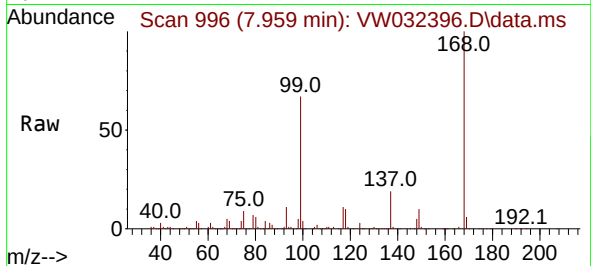




#31
Cyclohexane
Concen: 1.637 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

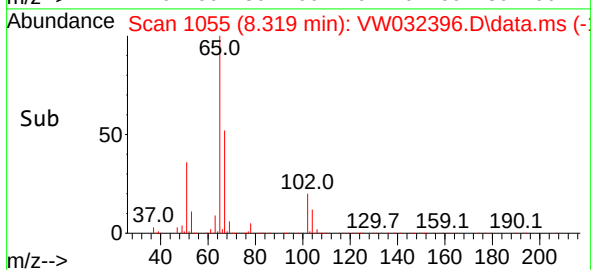
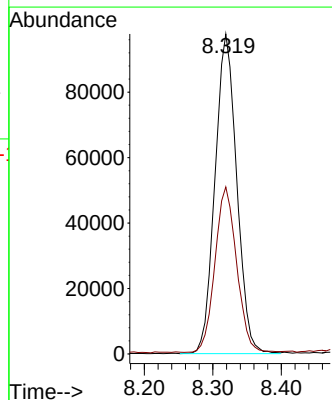
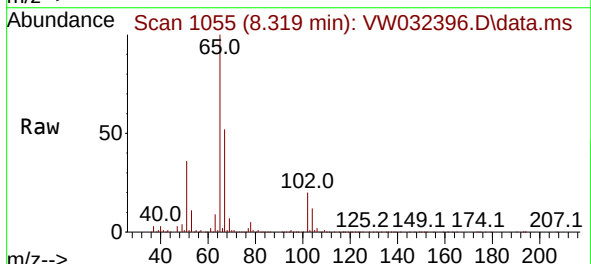
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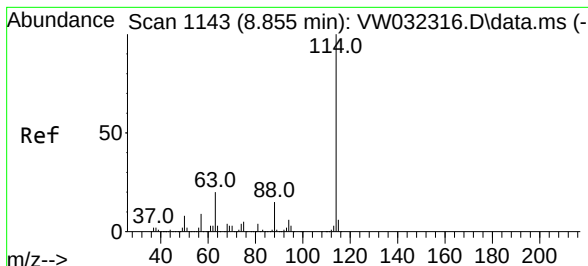
Tgt Ion: 56 Resp: 8137
Ion Ratio Lower Upper
56 100
69 127.7 27.7 41.5#
84 121.6 74.6 112.0#



#33
1,2-Dichloroethane-d4
Concen: 60.844 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

Tgt Ion: 65 Resp: 214866
Ion Ratio Lower Upper
65 100
67 51.5 0.0 99.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VW032396.D

Acq: 20 Oct 2025 17:51

Instrument :

MSVOA_W

ClientSampleId :

PR132-S09-000051-20251017

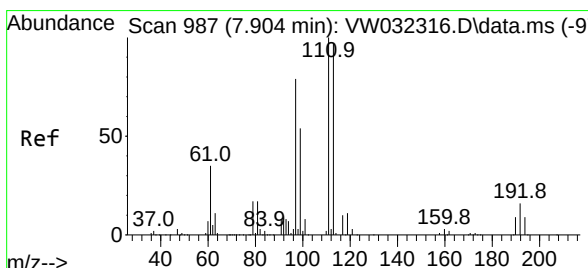
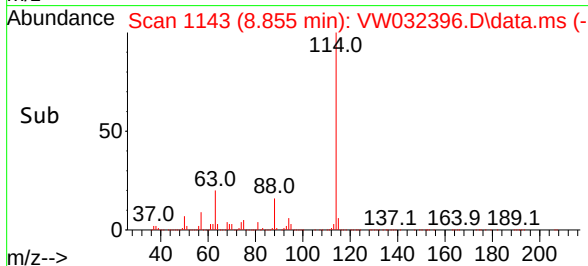
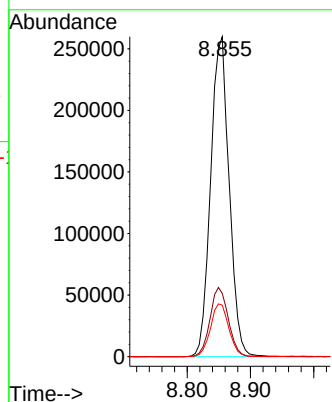
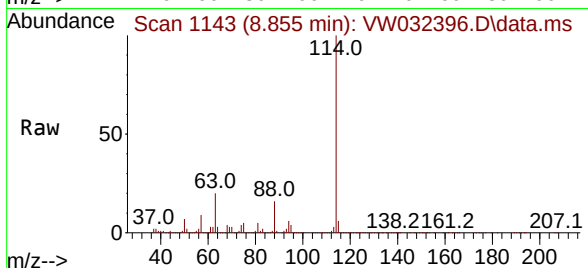
Tgt Ion:114 Resp: 528270

Ion Ratio Lower Upper

114 100

63 19.7 0.0 40.4

88 16.1 0.0 32.0



#35

Dibromofluoromethane

Concen: 53.879 ug/l

RT: 7.898 min Scan# 986

Delta R.T. -0.006 min

Lab File: VW032396.D

Acq: 20 Oct 2025 17:51

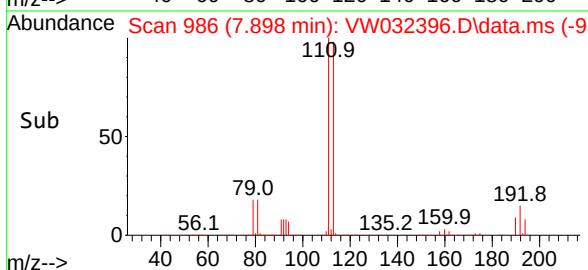
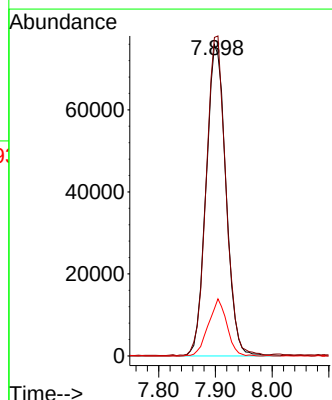
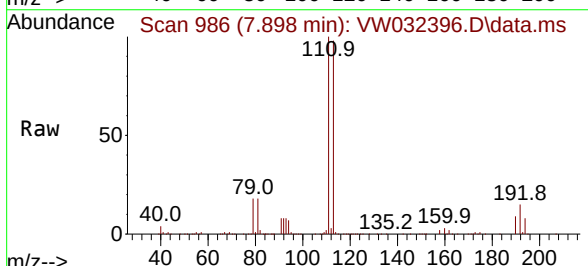
Tgt Ion:113 Resp: 184326

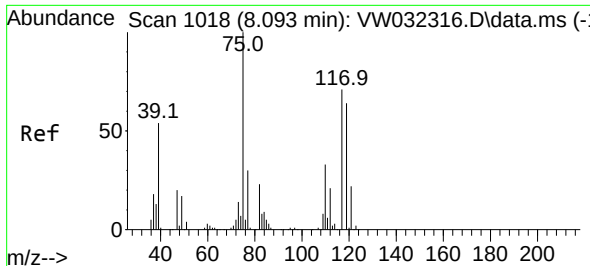
Ion Ratio Lower Upper

113 100

111 101.3 83.9 125.9

192 17.1 14.6 21.8

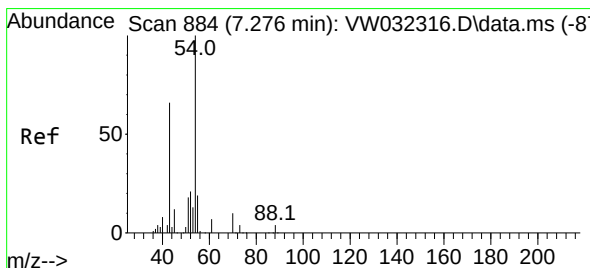
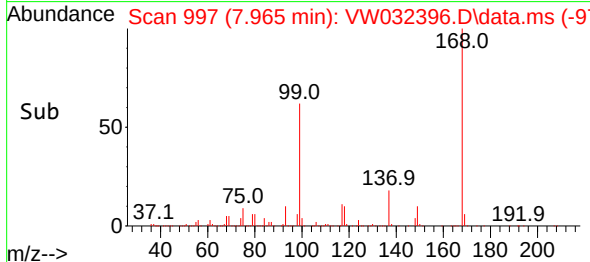
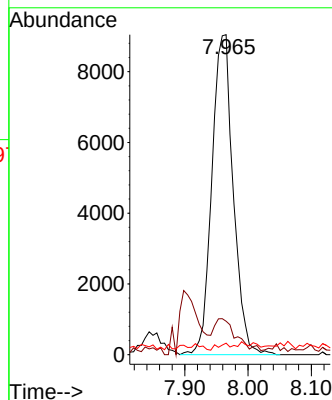
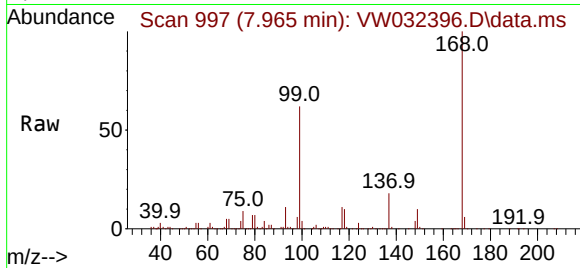




#36
 1,1-Dichloropropene
 Concen: 4.406 ug/l
 RT: 7.965 min Scan# 91
 Delta R.T. -0.134 min
 Lab File: VW032396.D
 Acq: 20 Oct 2025 17:51

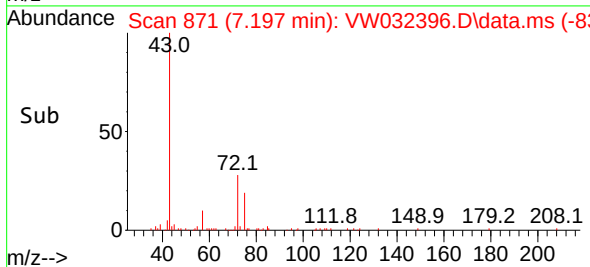
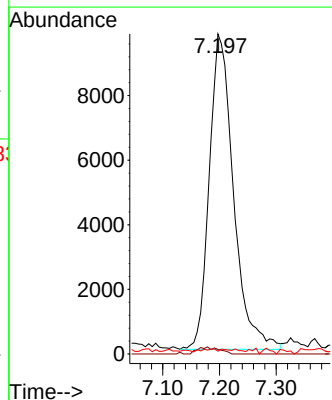
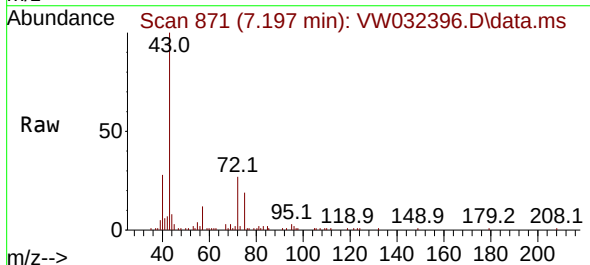
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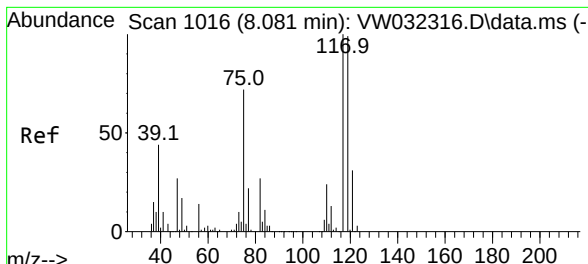
Tgt Ion: 75 Resp: 21271
 Ion Ratio Lower Upper
 75 100
 110 10.1 17.5 52.5#
 77 1.2 24.1 36.1#



#37
 Ethyl Acetate
 Concen: 9.030 ug/l
 RT: 7.197 min Scan# 871
 Delta R.T. -0.079 min
 Lab File: VW032396.D
 Acq: 20 Oct 2025 17:51

Tgt Ion: 43 Resp: 29021
 Ion Ratio Lower Upper
 43 100
 61 2.0 11.3 16.9#
 70 0.5 8.9 13.3#

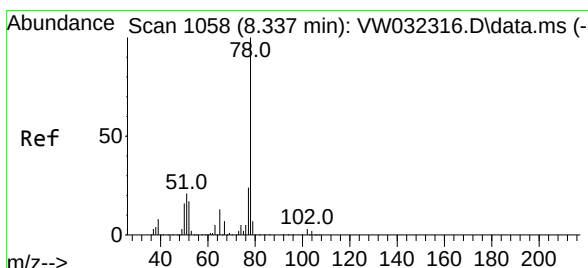
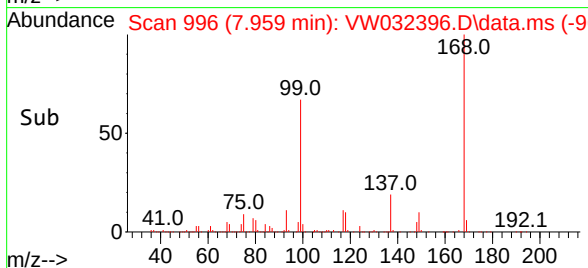
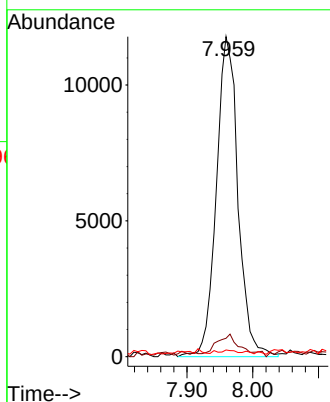
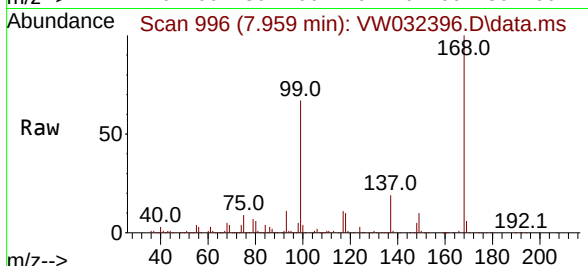




#38
Carbon Tetrachloride
Concen: 5.949 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.128 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

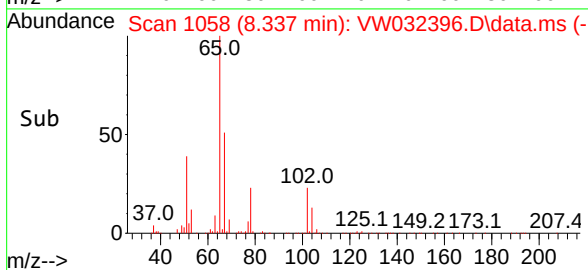
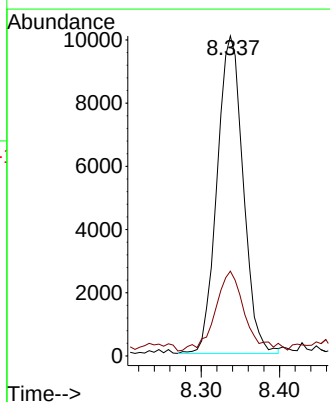
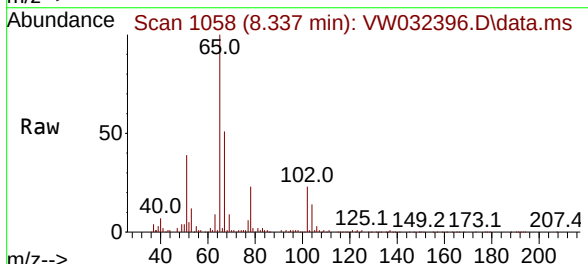
Instrument : MSVOA_W
ClientSampleId : PR132-S09-000051-20251017

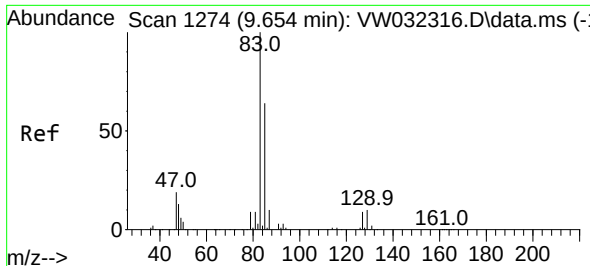
Tgt Ion:117 Resp: 27027
Ion Ratio Lower Upper
117 100
119 4.9 74.2 111.2#
121 0.4 25.6 38.4#



#40
Benzene
Concen: 1.533 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

Tgt Ion: 78 Resp: 23201
Ion Ratio Lower Upper
78 100
77 25.2 20.7 31.1

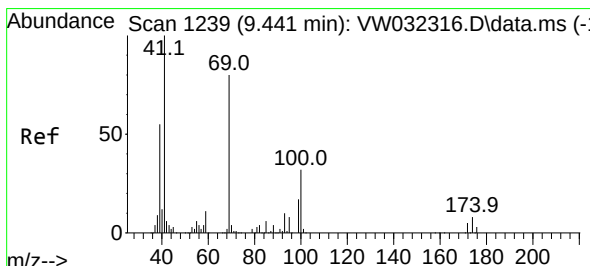
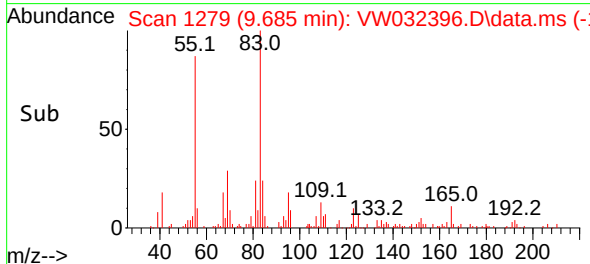
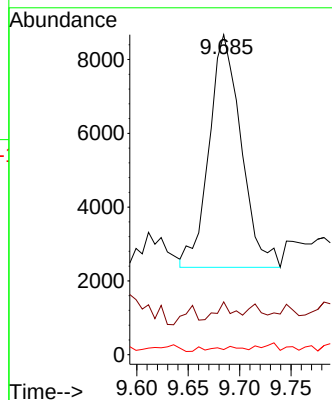
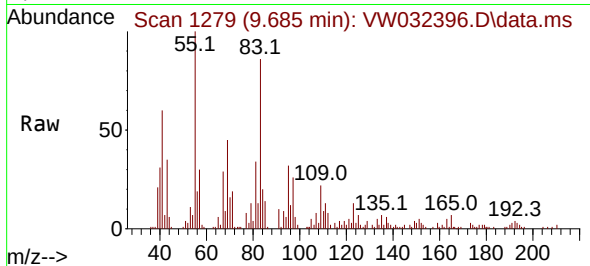




#47
Bromodichloromethane
Concen: 2.569 ug/l
RT: 9.685 min Scan# 11
Delta R.T. 0.037 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

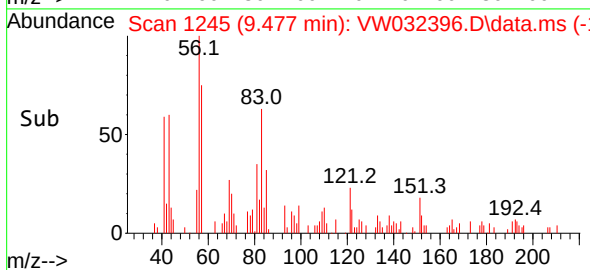
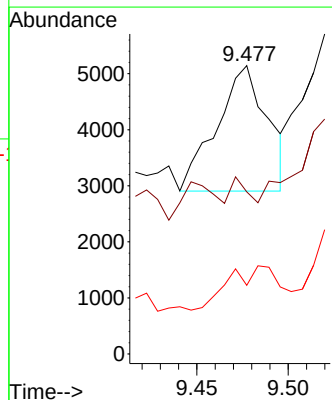
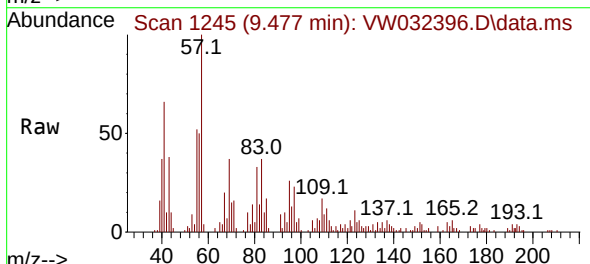
Instrument :
MSVOA_W
ClientSampleId :
PR132-S09-000051-20251017

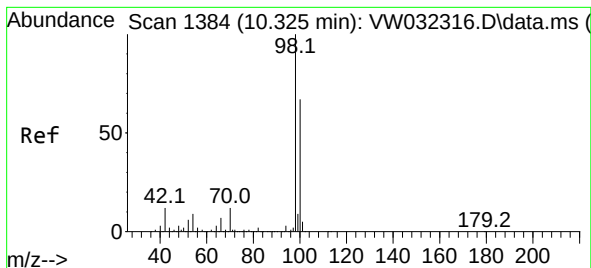
Tgt Ion: 83 Resp: 13649
Ion Ratio Lower Upper
83 100
85 6.2 48.7 73.1#
127 0.3 6.4 9.6#



#48
Methyl methacrylate
Concen: 1.551 ug/l
RT: 9.477 min Scan# 1245
Delta R.T. 0.037 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

Tgt Ion: 41 Resp: 4298
Ion Ratio Lower Upper
41 100
69 0.0 71.5 107.3#
39 35.9 55.9 83.9#





#50

Toluene-d8

Concen: 53.266 ug/l

RT: 10.331 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW032396.D

Acq: 20 Oct 2025 17:51

Instrument :

MSVOA_W

ClientSampleId :

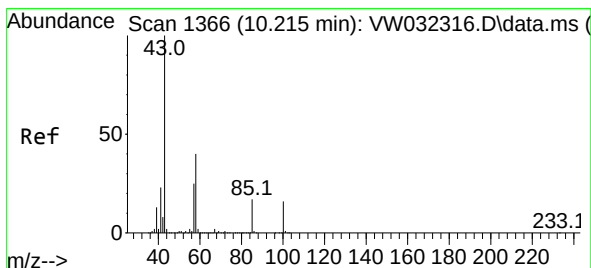
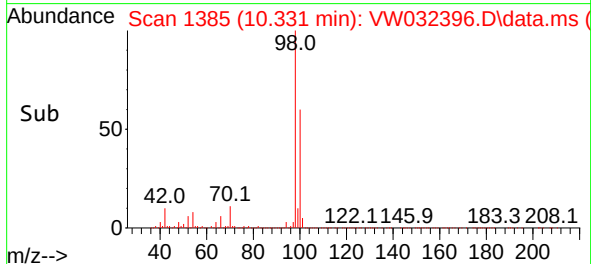
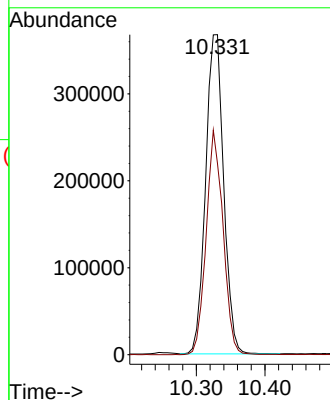
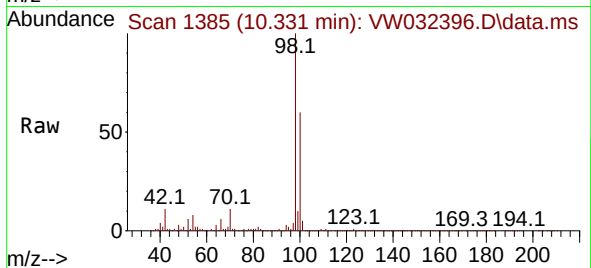
PR132-S09-000051-20251017

Tgt Ion: 98 Resp: 672570

Ion Ratio Lower Upper

98 100

100 65.9 51.4 77.2



#51

4-Methyl-2-Pentanone

Concen: 7.488 ug/l

RT: 10.252 min Scan# 1372

Delta R.T. 0.037 min

Lab File: VW032396.D

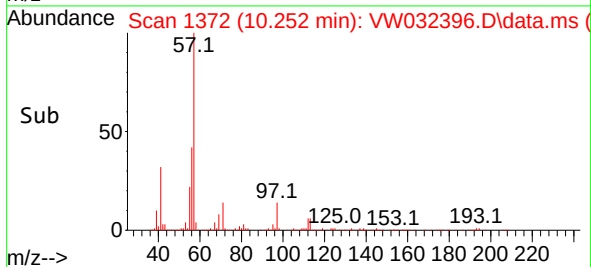
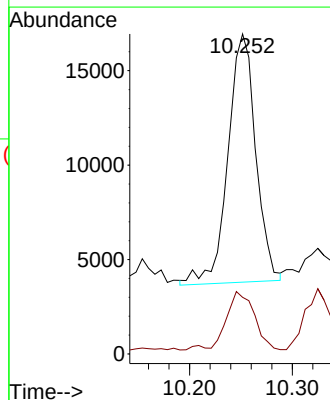
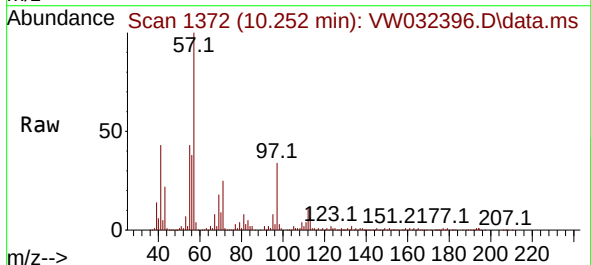
Acq: 20 Oct 2025 17:51

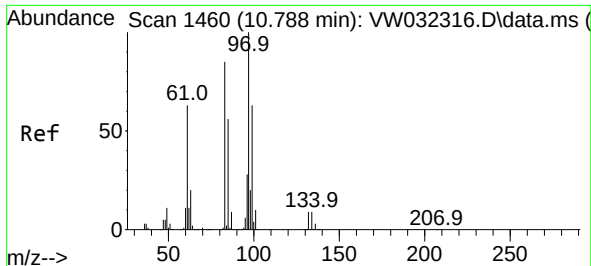
Tgt Ion: 43 Resp: 24727

Ion Ratio Lower Upper

43 100

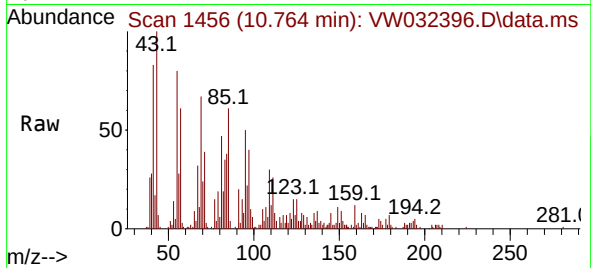
58 23.0 32.0 48.0#



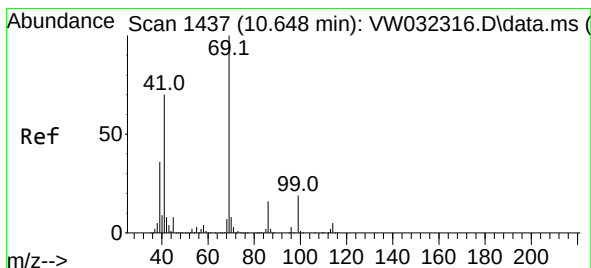
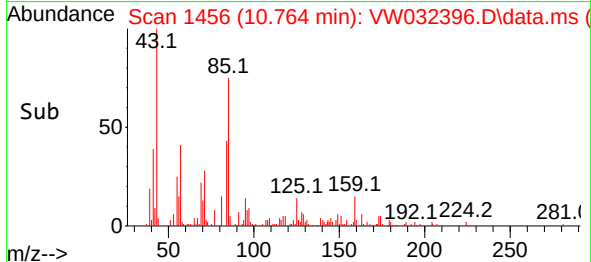
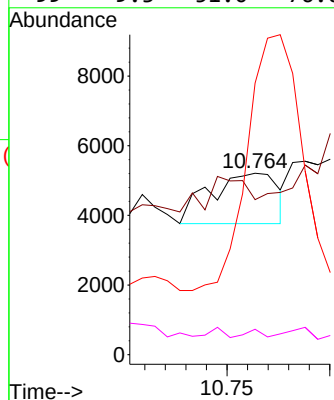


#55
1,1,2-Trichloroethane
Concen: 1.070 ug/l
RT: 10.764 min Scan# 1456
Delta R.T. -0.024 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

Instrument : MSVOA_W
ClientSampleId : PR132-S09-000051-20251017

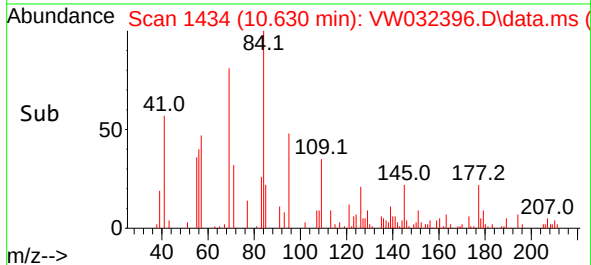
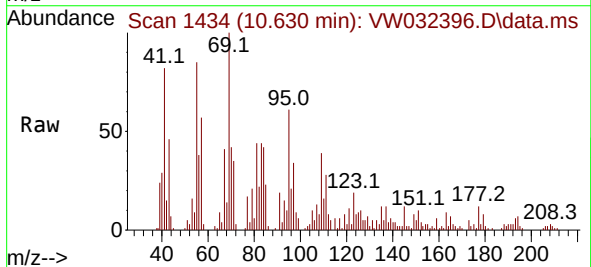
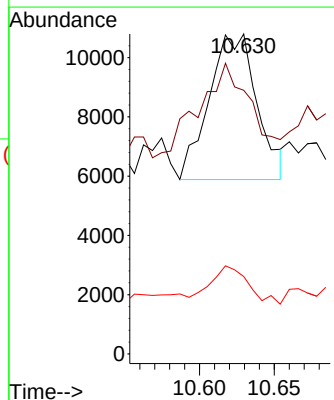


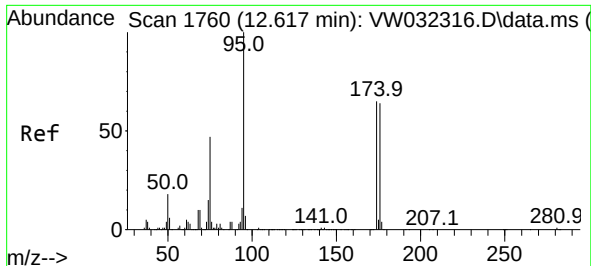
Tgt Ion: 97	Resp: 3322
Ion Ratio	Lower Upper
97 100	
83 24.4	71.0 106.6#
85 410.9	42.8 64.2#
99 9.3	51.0 76.6#



#56
Ethyl methacrylate
Concen: 2.515 ug/l
RT: 10.630 min Scan# 1434
Delta R.T. -0.018 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

Tgt Ion: 69	Resp: 10929
Ion Ratio	Lower Upper
69 100	
41 62.0	53.2 79.8
39 20.7	32.9 49.3#

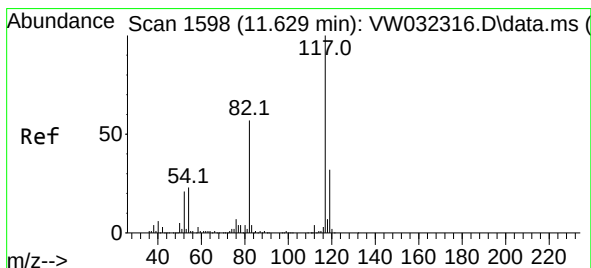
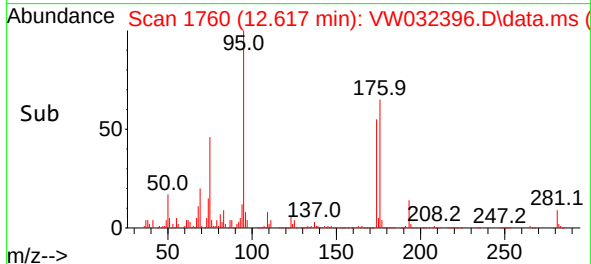
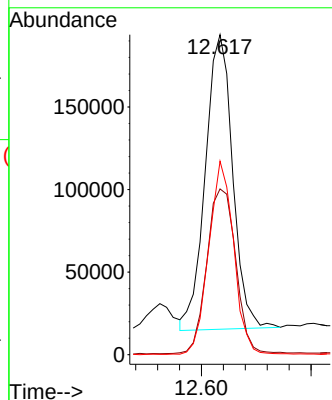
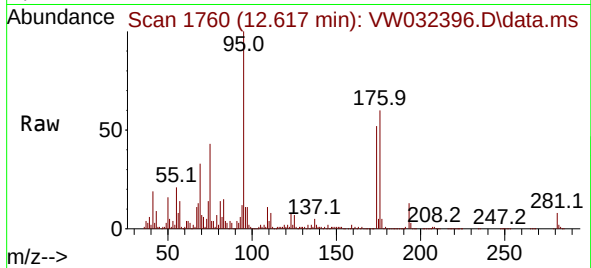




#62
4-Bromofluorobenzene
Concen: 64.765 ug/l
RT: 12.617 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

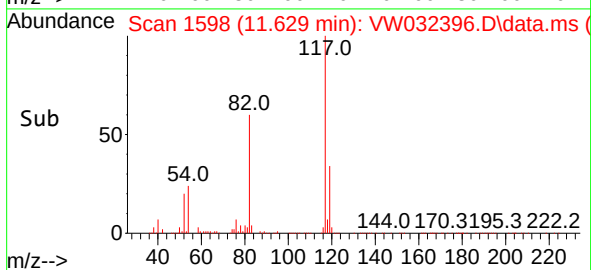
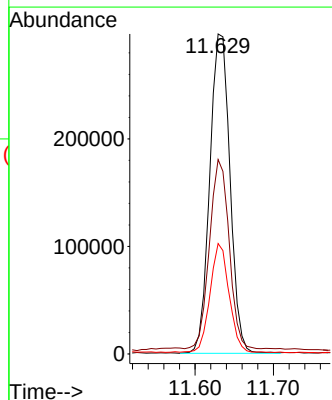
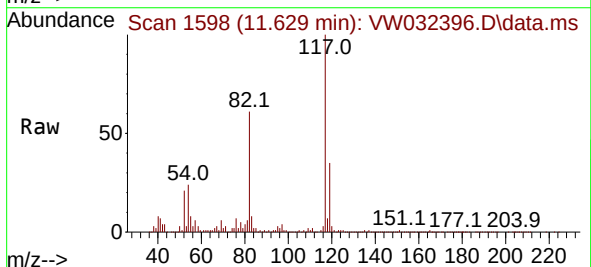
Instrument :
MSVOA_W
ClientSampleId :
PR132-S09-000051-20251017

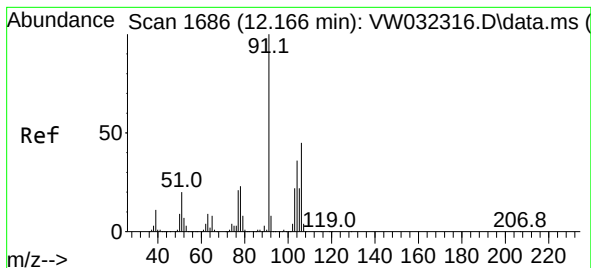
Tgt Ion: 95 Resp: 309089
Ion Ratio Lower Upper
95 100
174 60.3 0.0 145.6
176 60.5 0.0 140.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

Tgt Ion: 117 Resp: 532171
Ion Ratio Lower Upper
117 100
82 59.2 42.7 64.1
119 34.0 25.2 37.8





#69

o-Xylene

Concen: 1.104 ug/l

RT: 12.166 min Scan# 1

Delta R.T. -0.000 min

Lab File: VW032396.D

Acq: 20 Oct 2025 17:51

Instrument :

MSVOA_W

ClientSampleId :

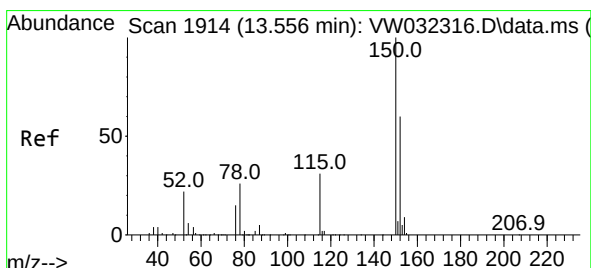
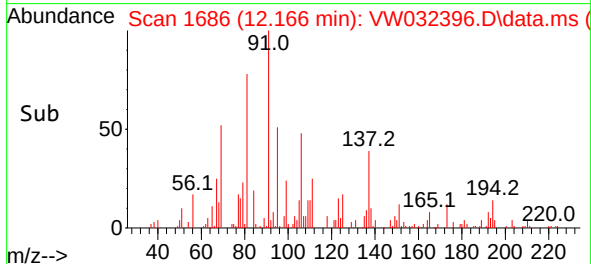
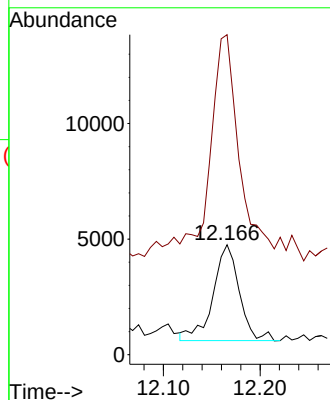
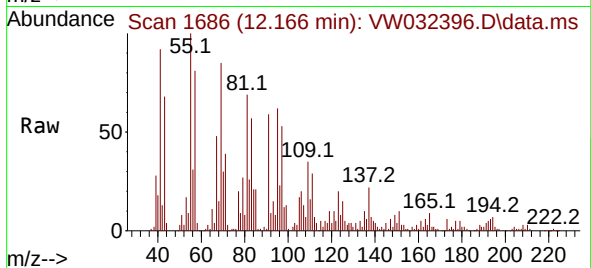
PR132-S09-000051-20251017

Tgt Ion:106 Resp: 7772

Ion Ratio Lower Upper

106 100

91 263.8 108.7 326.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. -0.000 min

Lab File: VW032396.D

Acq: 20 Oct 2025 17:51

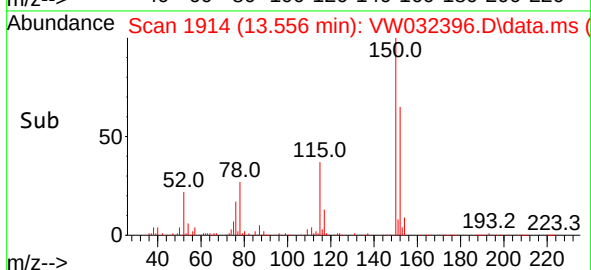
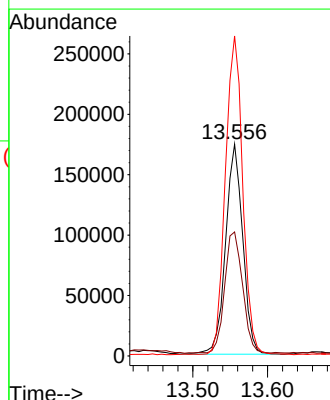
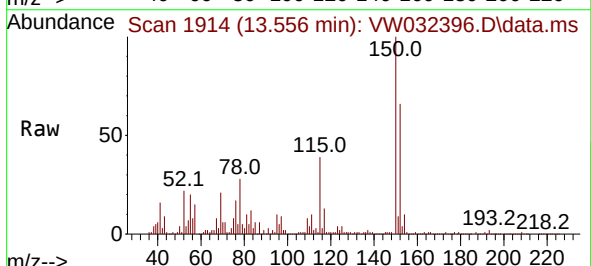
Tgt Ion:152 Resp: 278056

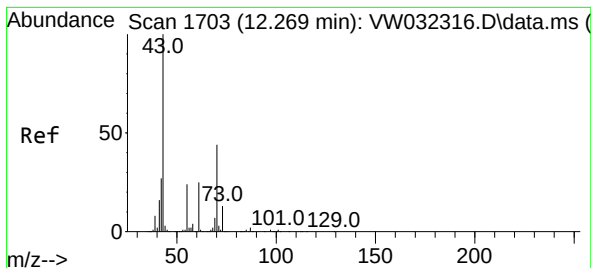
Ion Ratio Lower Upper

152 100

115 59.7 31.8 95.4

150 153.3 0.0 343.0





#74

N-amy1 acetate

Concen: 11.274 ug/l

RT: 12.245 min Scan# 1

Delta R.T. -0.024 min

Lab File: VW032396.D

Acq: 20 Oct 2025 17:51

Instrument :

MSVOA_W

ClientSampleId :

PR132-S09-000051-20251017

Tgt Ion: 43 Resp: 68420

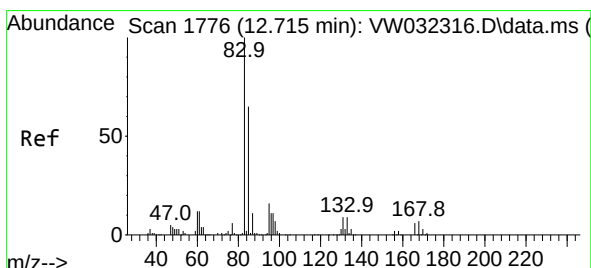
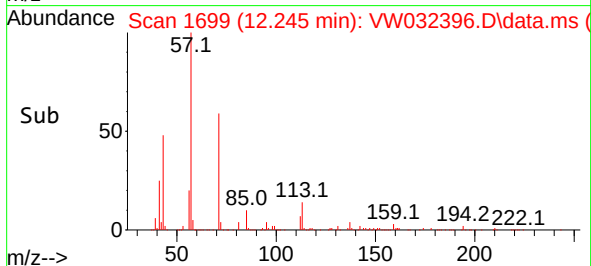
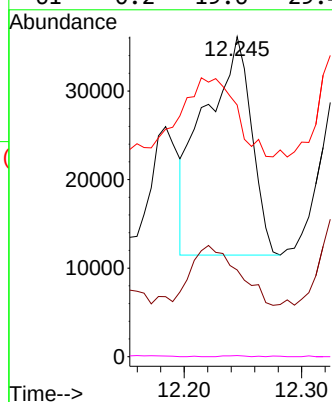
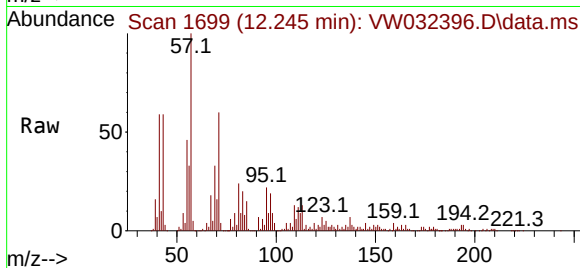
Ion Ratio Lower Upper

43 100

70 0.0 35.3 52.9#

55 0.0 19.9 29.9#

61 0.2 19.6 29.4#



#75

1,1,2,2-Tetrachloroethane

Concen: 4.140 ug/l

RT: 12.678 min Scan# 1770

Delta R.T. -0.037 min

Lab File: VW032396.D

Acq: 20 Oct 2025 17:51

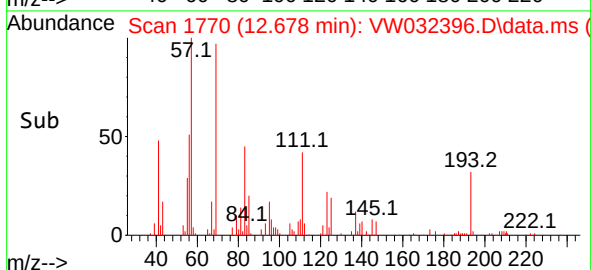
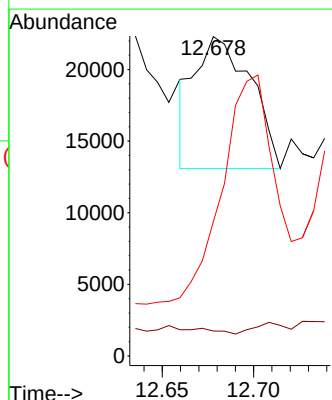
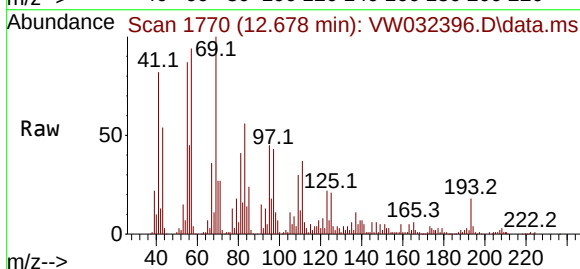
Tgt Ion: 83 Resp: 19555

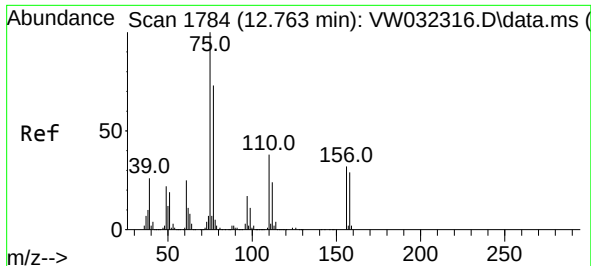
Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

85 0.0 32.2 96.6#

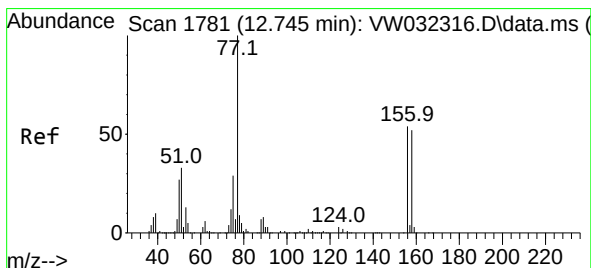
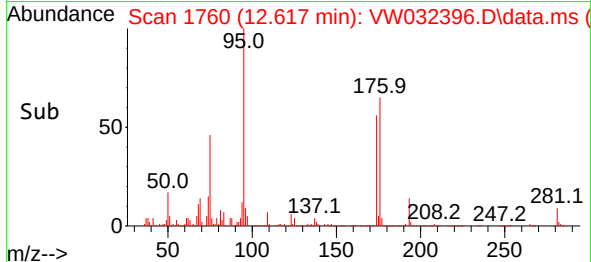
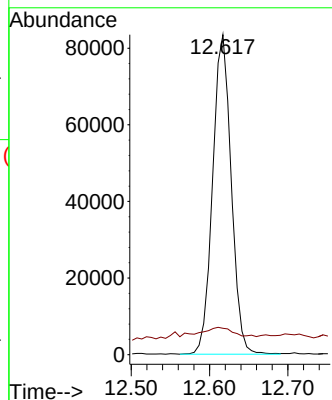
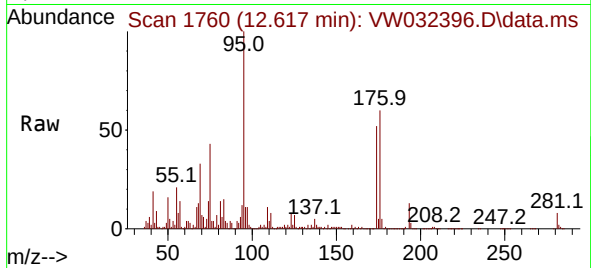




#76
1,2,3-Trichloropropane
Concen: 37.628 ug/l
RT: 12.617 min Scan# 11
Delta R.T. -0.146 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

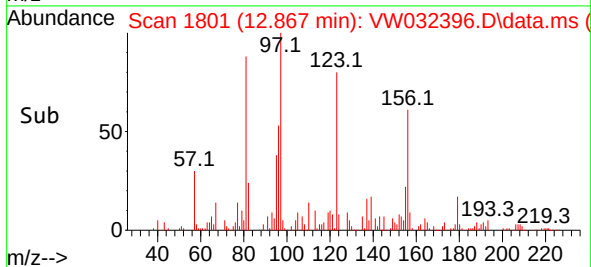
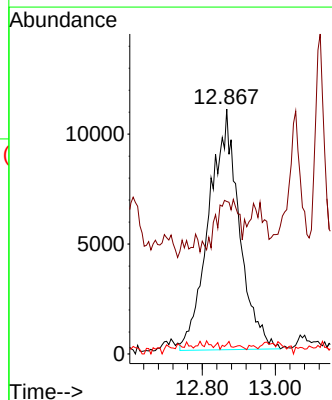
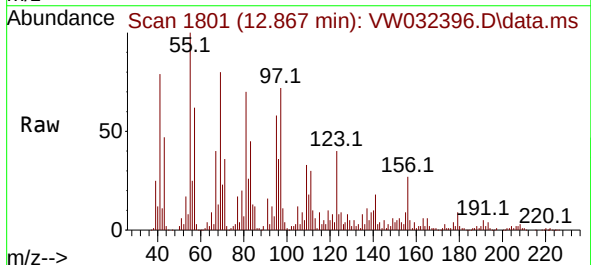
Instrument :
MSVOA_W
ClientSampleId :
PR132-S09-000051-20251017

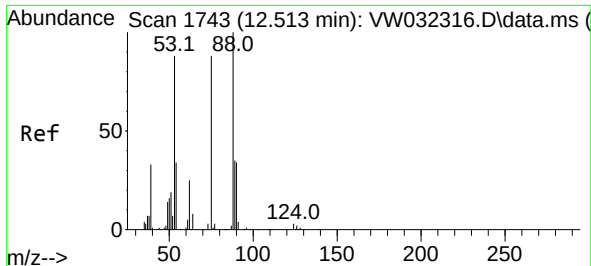
Tgt Ion: 75 Resp: 137685
Ion Ratio Lower Upper
75 100
77 4.1 141.7 425.1#



#77
Bromobenzene
Concen: 13.779 ug/l
RT: 12.867 min Scan# 1801
Delta R.T. 0.122 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

Tgt Ion:156 Resp: 63188
Ion Ratio Lower Upper
156 100
77 9.8 98.6 295.7#
158 0.2 48.4 145.0#

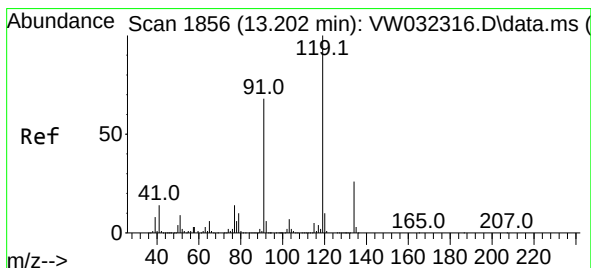
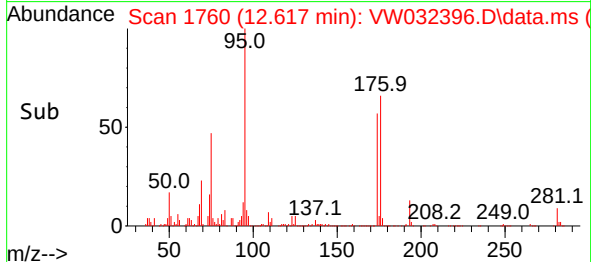
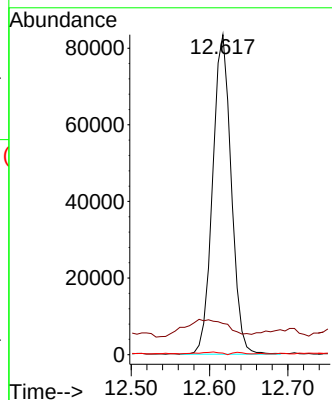
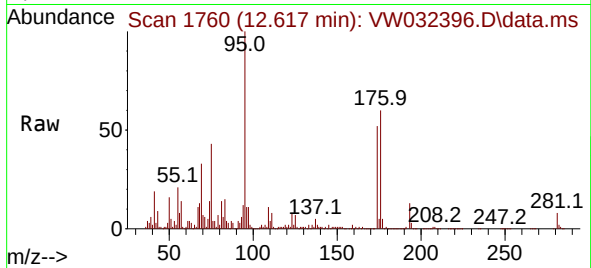




#81
trans-1,4-Dichloro-2-butene
Concen: 95.323 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.104 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

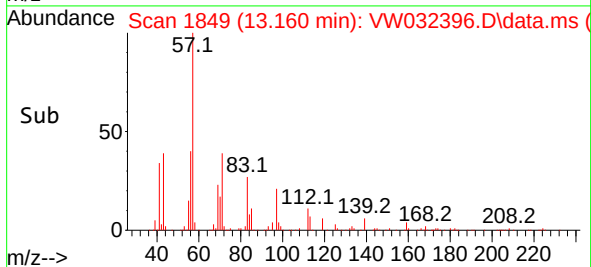
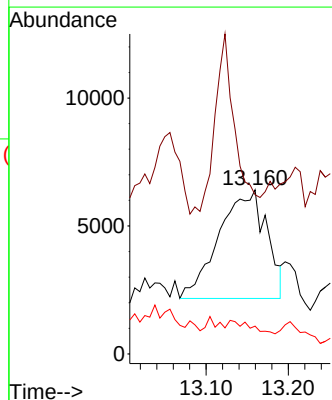
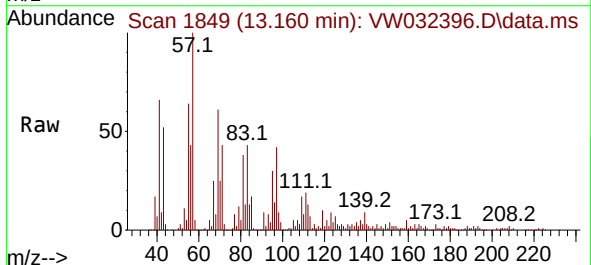
Instrument :
MSVOA_W
ClientSampleId :
PR132-S09-000051-20251017

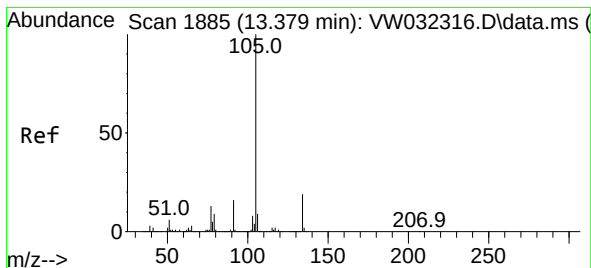
Tgt Ion: 75 Resp: 137685
Ion Ratio Lower Upper
75 100
53 0.0 91.0 136.6#
89 1.1 39.4 59.2#



#83
tert-Butylbenzene
Concen: 1.262 ug/l
RT: 13.160 min Scan# 1849
Delta R.T. -0.043 min
Lab File: VW032396.D
Acq: 20 Oct 2025 17:51

Tgt Ion: 119 Resp: 17028
Ion Ratio Lower Upper
119 100
91 0.0 33.8 101.3#
134 0.0 12.5 37.5#





#85

sec-Butylbenzene

Concen: 1.357 ug/l

RT: 13.410 min Scan# 1885

Delta R.T. 0.030 min

Lab File: VW032396.D

Acq: 20 Oct 2025 17:51

Instrument :

MSVOA_W

ClientSampleId :

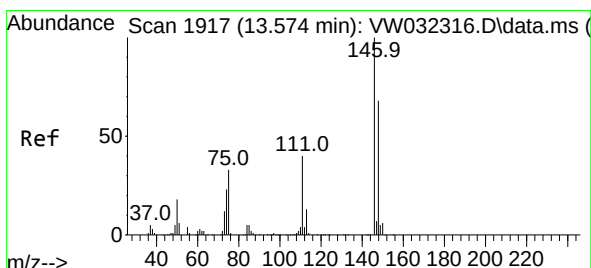
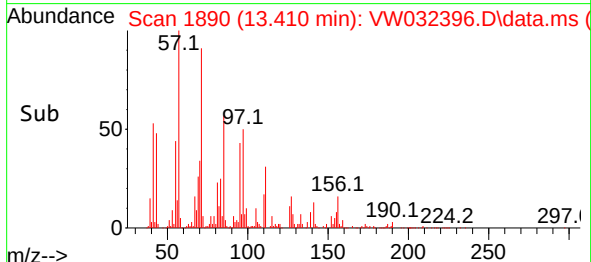
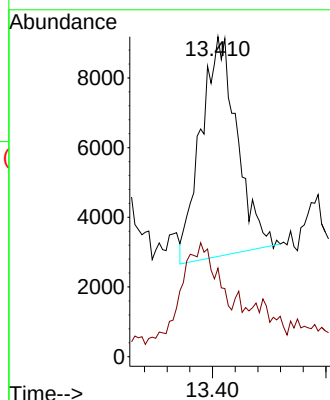
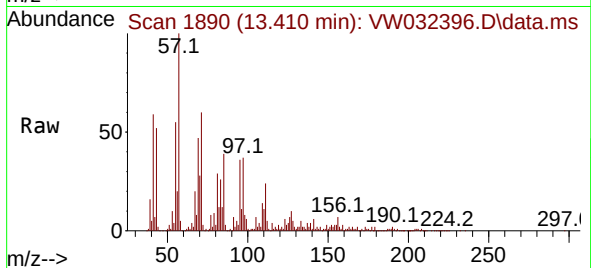
PR132-S09-000051-20251017

Tgt Ion:105 Resp: 27983

Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.1#



#88

1,4-Dichlorobenzene

Concen: 1.060 ug/l

RT: 13.574 min Scan# 1917

Delta R.T. -0.000 min

Lab File: VW032396.D

Acq: 20 Oct 2025 17:51

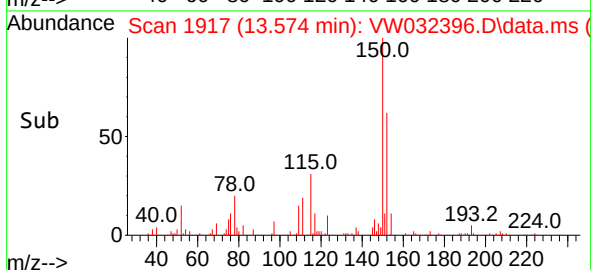
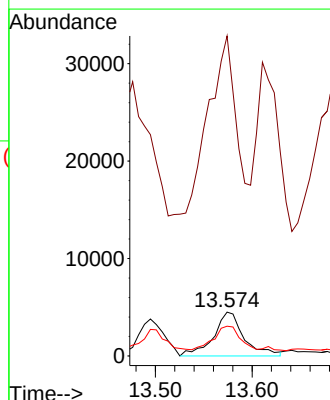
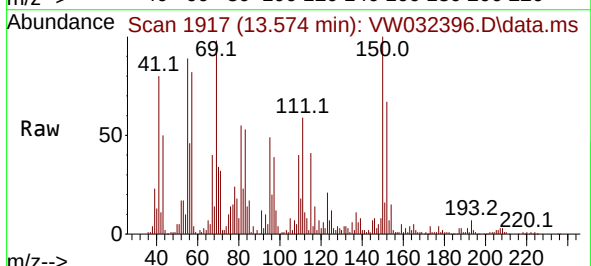
Tgt Ion:146 Resp: 9844

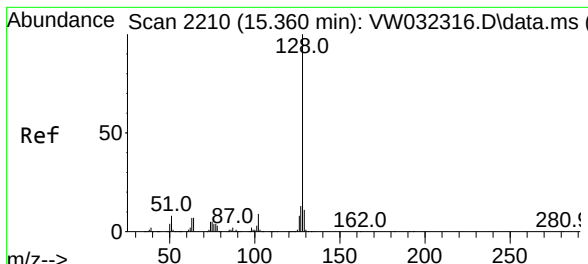
Ion Ratio Lower Upper

146 100

111 418.3 21.3 63.7#

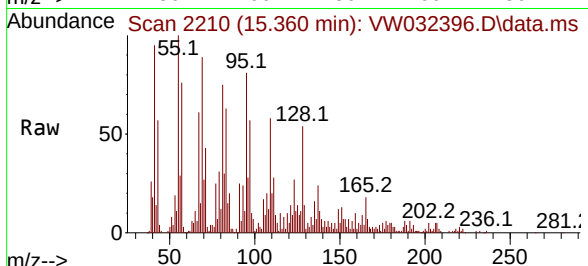
148 49.6 33.4 100.1





#95
 Naphthalene
 Concen: 1.714 ug/l
 RT: 15.360 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VW032396.D
 Acq: 20 Oct 2025 17:51

Instrument :
 MSVOA_W
 ClientSampleId :
 PR132-S09-000051-20251017



Tgt Ion:	128	Resp:	20720
Ion Ratio	Lower	Upper	
128	100		
127	0.0	10.6	16.0#
129	10.6	8.4	12.6

