

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100225\
 Data File : VW032332.D
 Acq On : 02 Oct 2025 15:03
 Operator : SY/MD
 Sample : Q3262-04
 Misc : 4.50g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 02 22:10:44 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)

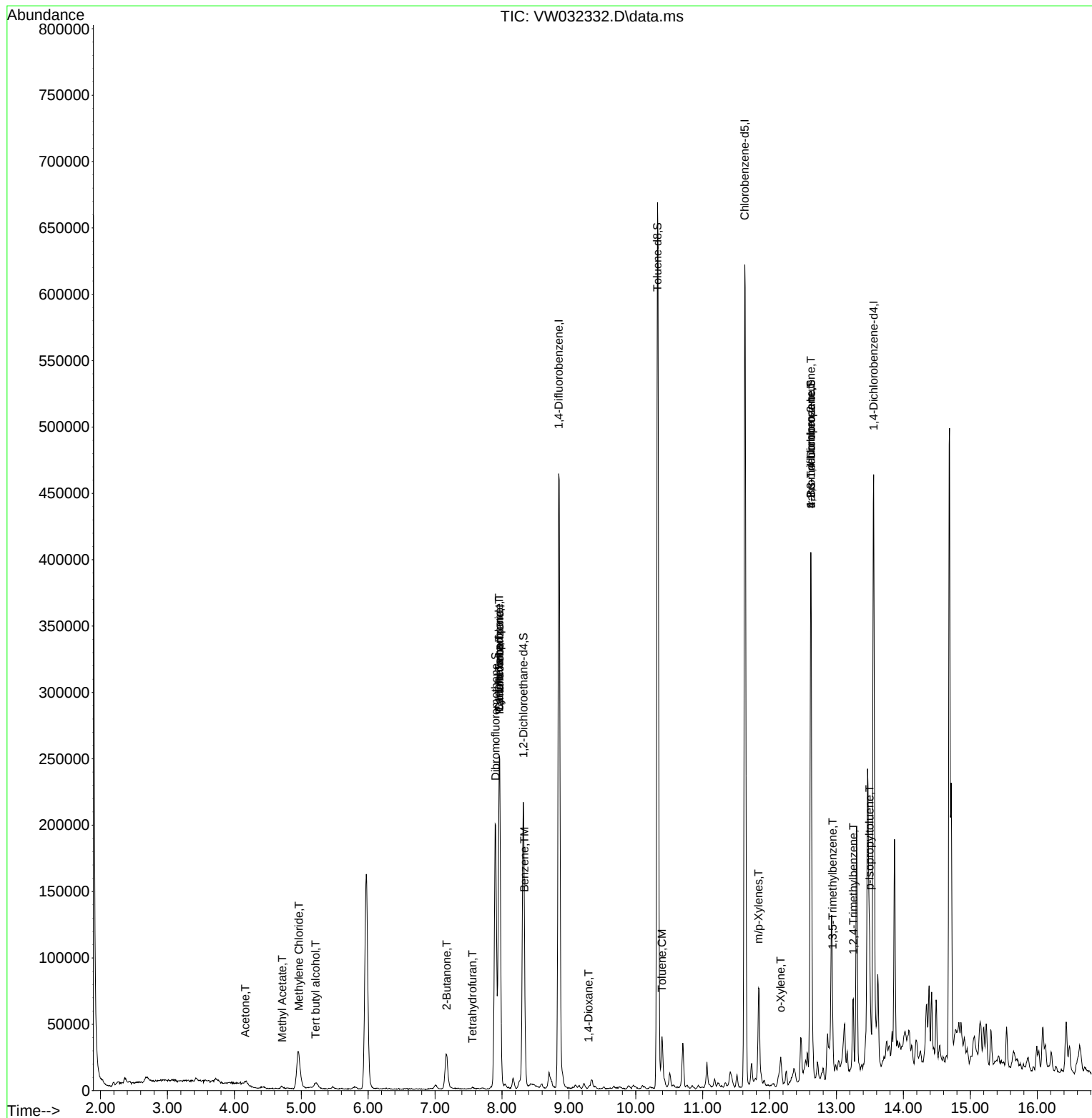
Internal Standards						
1) Pentafluorobenzene	7.965	168	173136	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	390150	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	339731	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	102634	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	174346	69.040	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 138.080%		
35) Dibromofluoromethane	7.904	113	146712	58.066	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 116.140%		
50) Toluene-d8	10.325	98	451150	48.379	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 96.760%		
62) 4-Bromofluorobenzene	12.617	95	137188	38.922	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 77.840%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.216	59	8423	44.065	ug/l	98
16) Acetone	4.161	43	3039	4.346	ug/l	99
18) Methyl Acetate	4.716	43	3460	1.727	ug/l #	84
20) Methylene Chloride	4.966	84	24310	5.773	ug/l	91
25) 2-Butanone	7.173	43	1222	1.283	ug/l #	82
29) Tetrahydrofuran	7.557	42	923	1.541	ug/l #	58
31) Cyclohexane	7.959	56	5868	1.651	ug/l #	23
36) 1,1-Dichloropropene	7.959	75	16631	4.664	ug/l #	52
38) Carbon Tetrachloride	7.959	117	20278	6.043	ug/l #	18
40) Benzene	8.337	78	12310	1.101	ug/l	93
49) 1,4-Dioxane	9.294	88	24	1.024	ug/l #	1
52) Toluene	10.392	92	14839	2.132	ug/l	100
68) m/p-Xylenes	11.837	106	11431	2.379	ug/l	96
69) o-Xylene	12.166	106	4647	1.034	ug/l	97
76) 1,2,3-Trichloropropane	12.617	75	70743	52.378	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.940	105	8392	1.382	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.617	75	70743	132.689	ug/l #	5
84) 1,2,4-Trimethylbenzene	13.251	105	33550	5.434	ug/l	98
86) p-Isopropyltoluene	13.495	119	47879	7.579	ug/l #	72

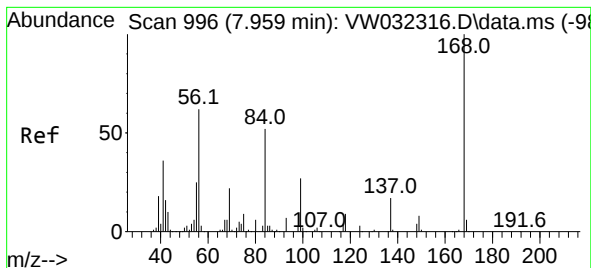
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100225\
Data File : VW032332.D
Acq On : 02 Oct 2025 15:03
Operator : SY/MD
Sample : Q3262-04
Misc : 4.50g/5mL/MSVOA_W/SOIL/A
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :

Quant Time: Oct 02 22:10:44 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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.965 min Scan# 99

Delta R.T. 0.000 min

Lab File: VW032332.D

Acq: 02 Oct 2025 15:03

Instrument :

MSVOA_W

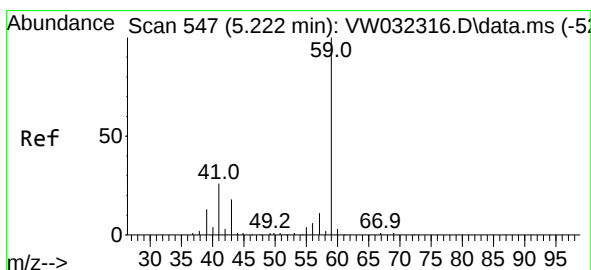
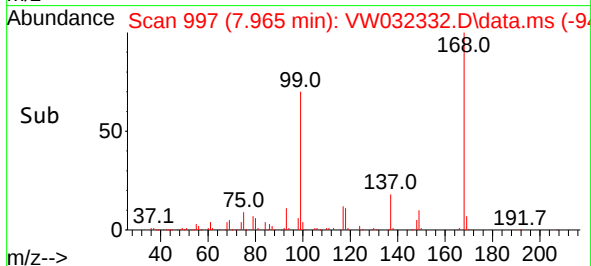
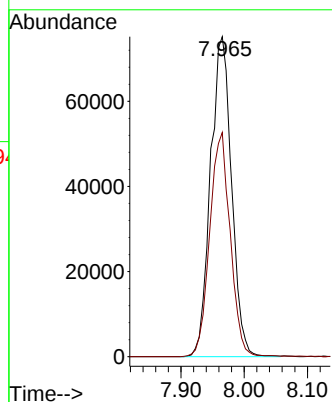
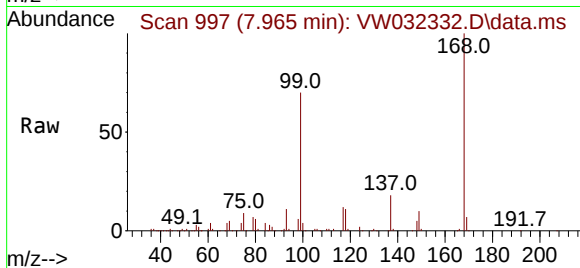
ClientSampleId :

Tgt Ion:168 Resp: 173136

Ion Ratio Lower Upper

168 100

99 70.0 49.3 73.9



#11

Tert butyl alcohol

Concen: 44.065 ug/l

RT: 5.216 min Scan# 546

Delta R.T. -0.006 min

Lab File: VW032332.D

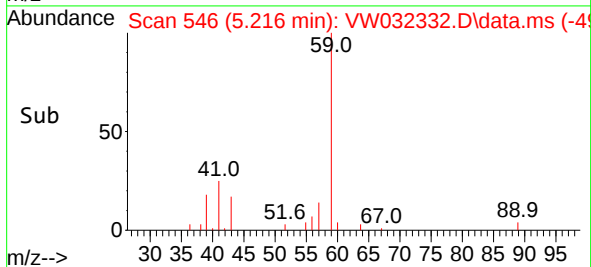
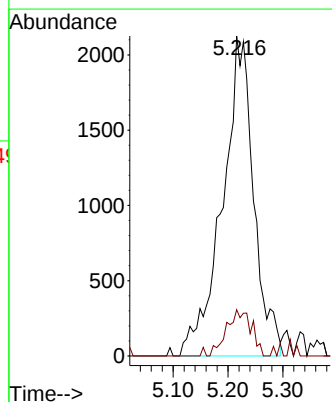
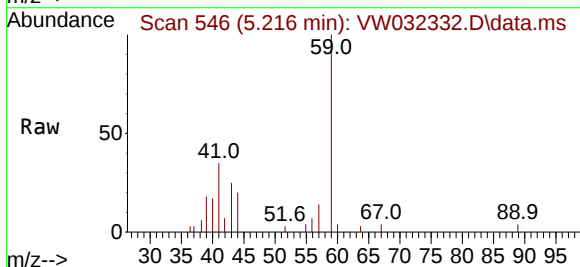
Acq: 02 Oct 2025 15:03

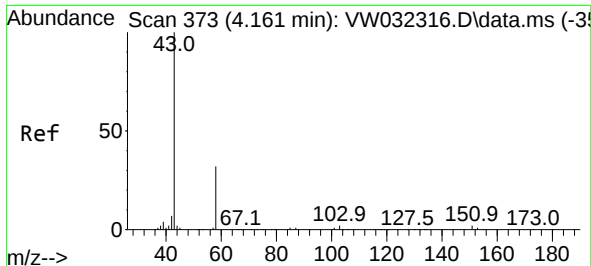
Tgt Ion: 59 Resp: 8423

Ion Ratio Lower Upper

59 100

57 11.4 9.8 14.6

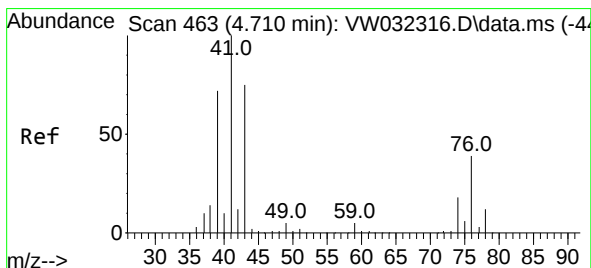
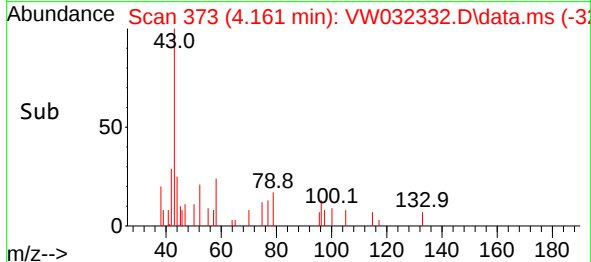
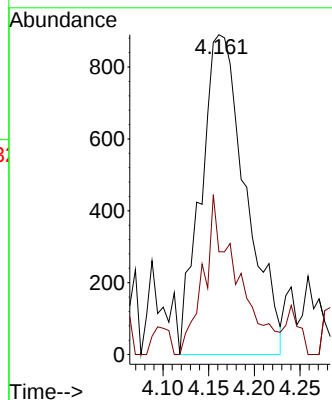
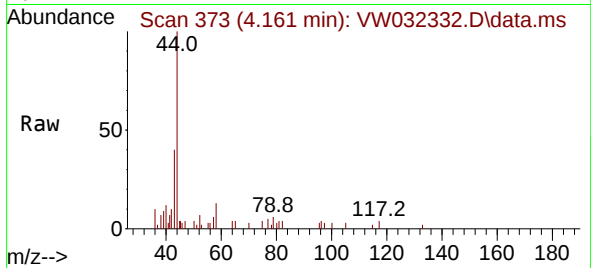




#16
Acetone
Concen: 4.346 ug/l
RT: 4.161 min Scan# 31
Delta R.T. -0.000 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

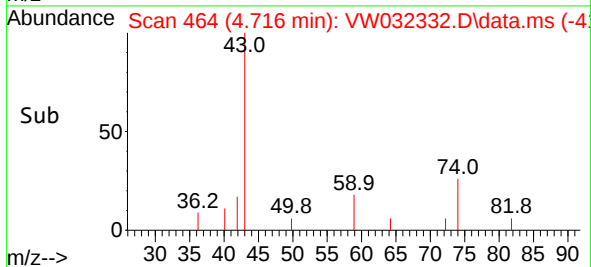
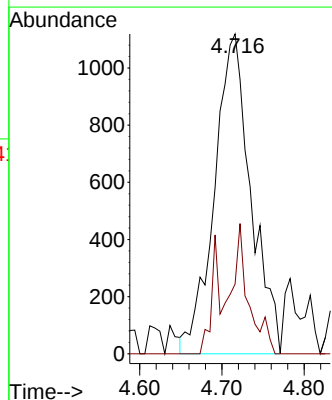
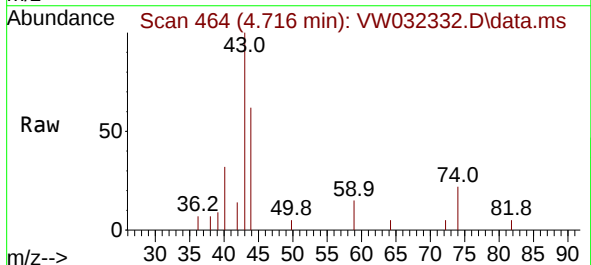
Instrument :
MSVOA_W
ClientSampleId :

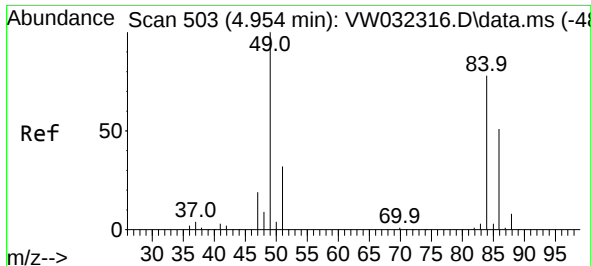
Tgt Ion: 43 Resp: 3039
Ion Ratio Lower Upper
43 100
58 32.1 25.3 37.9



#18
Methyl Acetate
Concen: 1.727 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

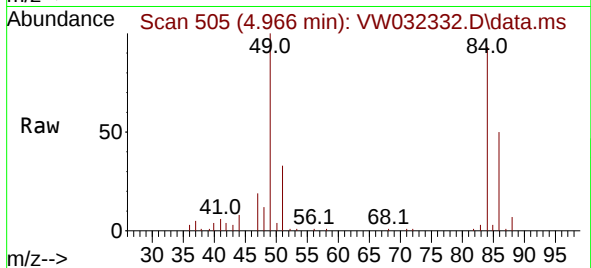
Tgt Ion: 43 Resp: 3460
Ion Ratio Lower Upper
43 100
74 17.3 20.2 30.4#



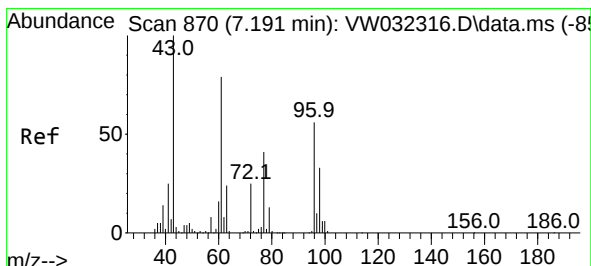
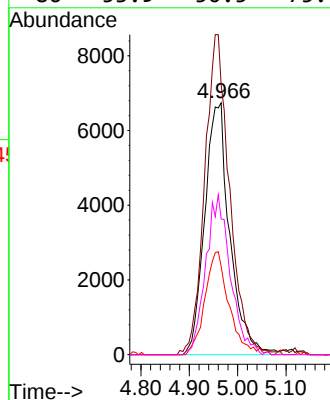
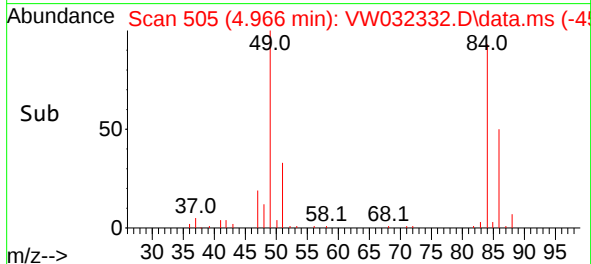


#20
Methylene Chloride
Concen: 5.773 ug/l
RT: 4.966 min Scan# 503
Delta R.T. 0.006 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

Instrument :
MSVOA_W
ClientSampleId :

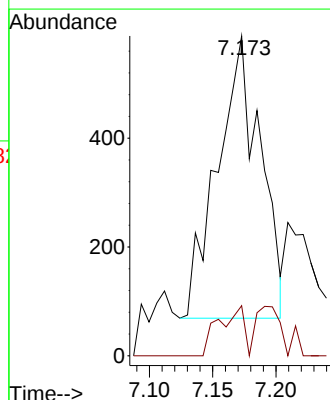
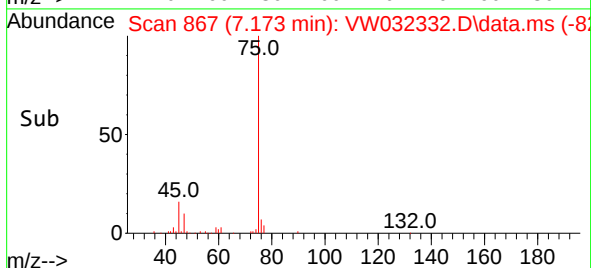
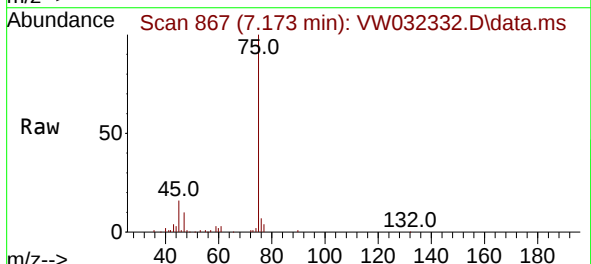


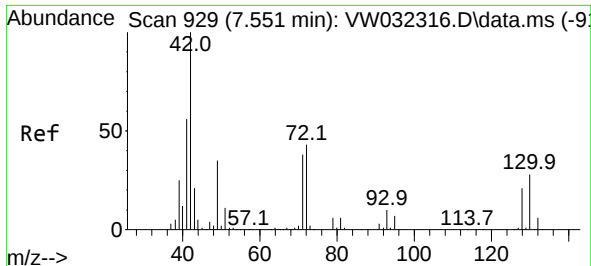
Tgt Ion: 84	Resp: 24310
Ion Ratio	Lower Upper
84 100	
49 105.4	92.2 138.4
51 35.1	31.0 46.6
86 53.9	50.5 75.7



#25
2-Butanone
Concen: 1.283 ug/l
RT: 7.173 min Scan# 867
Delta R.T. -0.018 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

Tgt Ion: 43	Resp: 1222		
Ion Ratio	Lower	Upper	
43 100			
72 17.7	21.4	32.2#	





#29

Tetrahydrofuran

Concen: 1.541 ug/l

RT: 7.557 min Scan# 91

Delta R.T. 0.006 min

Lab File: VW032332.D

Acq: 02 Oct 2025 15:03

Instrument :

MSVOA_W

ClientSampleId :

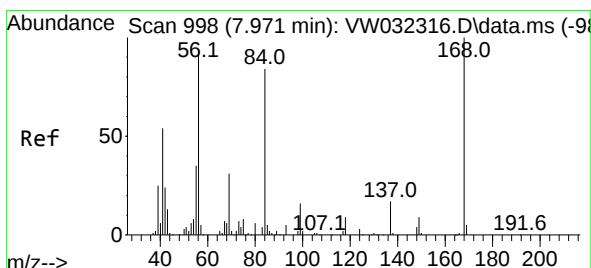
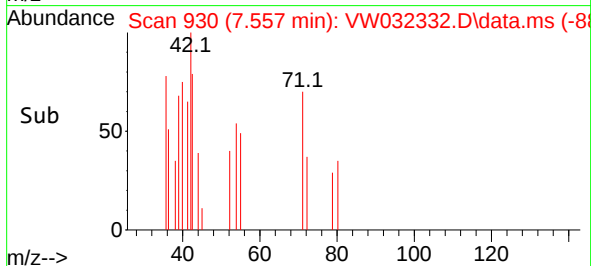
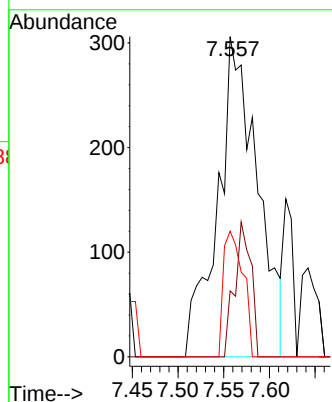
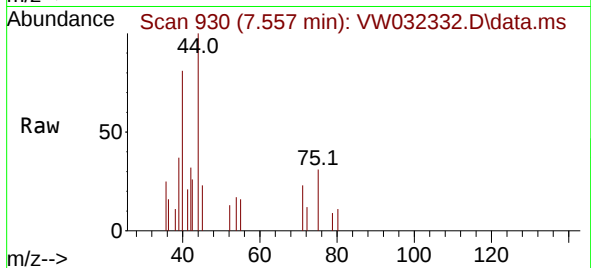
Tgt Ion: 42 Resp: 923

Ion Ratio Lower Upper

42 100

72 17.4 37.4 56.2#

71 19.4 36.0 54.0#



#31

Cyclohexane

Concen: 1.651 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.012 min

Lab File: VW032332.D

Acq: 02 Oct 2025 15:03

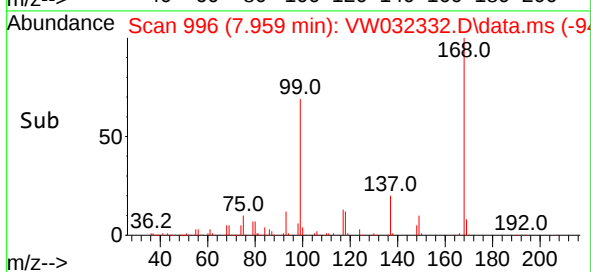
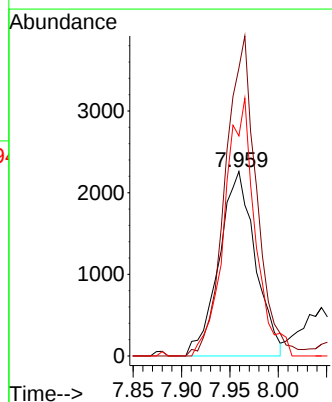
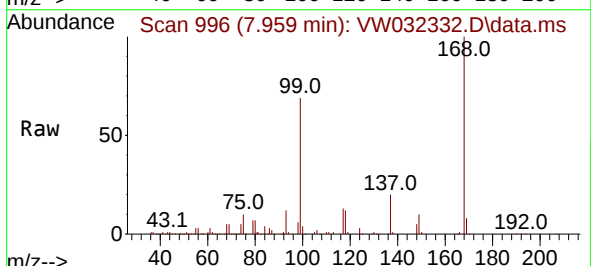
Tgt Ion: 56 Resp: 5868

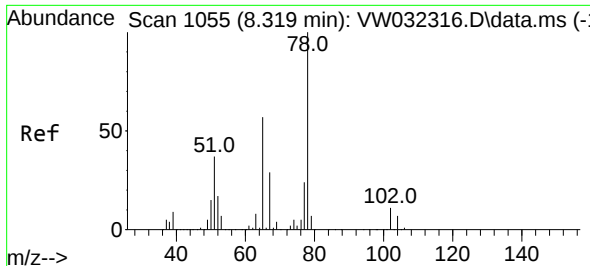
Ion Ratio Lower Upper

56 100

69 156.2 27.7 41.5#

84 119.3 74.6 112.0#





#33

1,2-Dichloroethane-d4

Concen: 69.040 ug/l

RT: 8.319 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VW032332.D

Acq: 02 Oct 2025 15:03

Instrument :

MSVOA_W

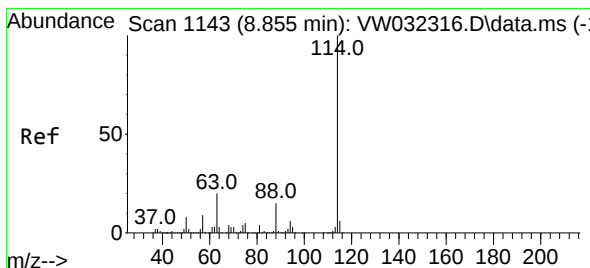
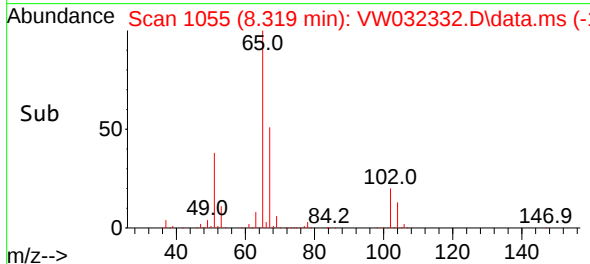
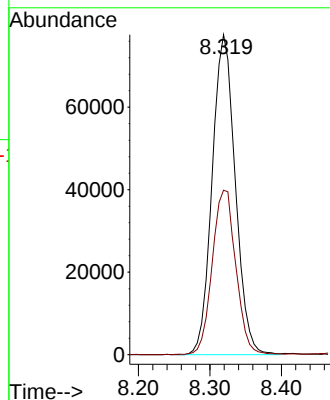
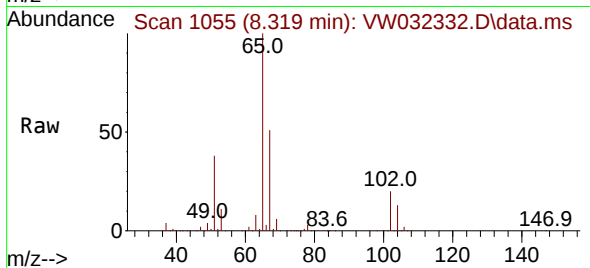
ClientSampleId :

Tgt Ion: 65 Resp: 174346

Ion Ratio Lower Upper

65 100

67 52.6 0.0 99.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1142

Delta R.T. -0.006 min

Lab File: VW032332.D

Acq: 02 Oct 2025 15:03

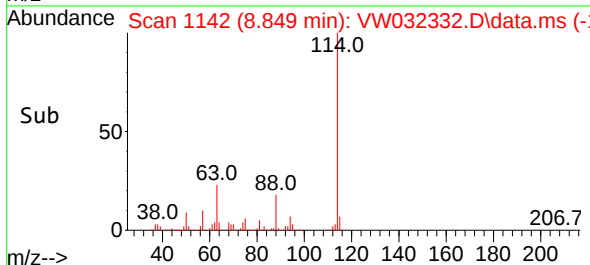
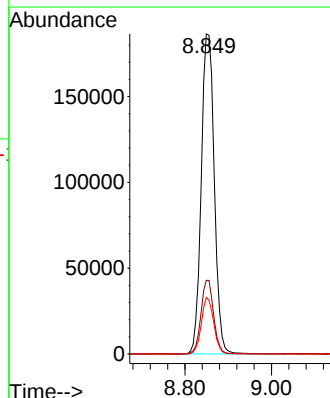
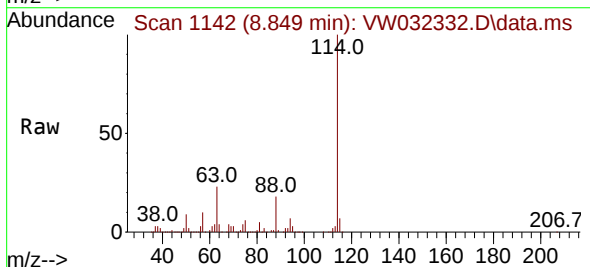
Tgt Ion: 114 Resp: 390150

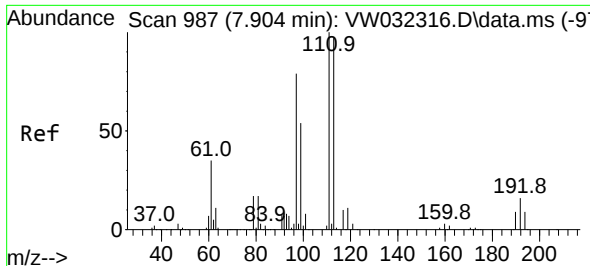
Ion Ratio Lower Upper

114 100

63 23.0 0.0 40.4

88 17.6 0.0 32.0

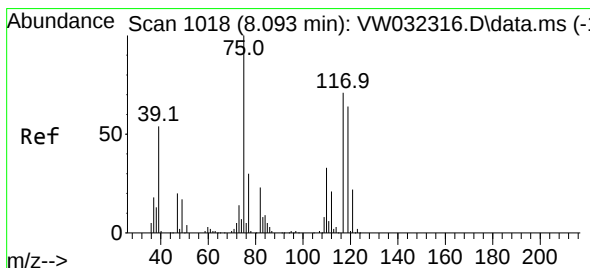
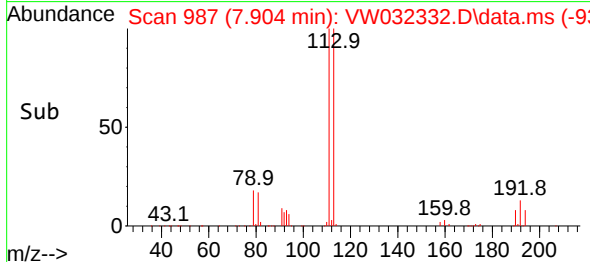
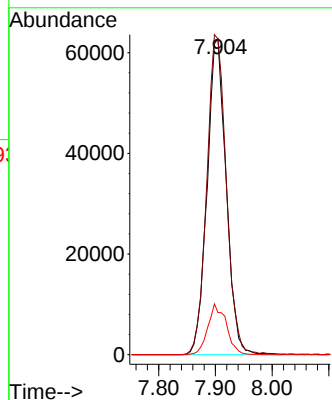
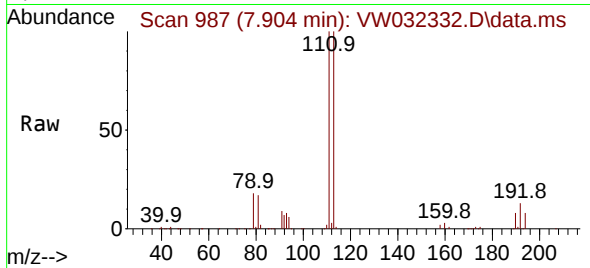




#35
 Dibromofluoromethane
 Concen: 58.066 ug/l
 RT: 7.904 min Scan# 991
 Delta R.T. -0.000 min
 Lab File: VW032332.D
 Acq: 02 Oct 2025 15:03

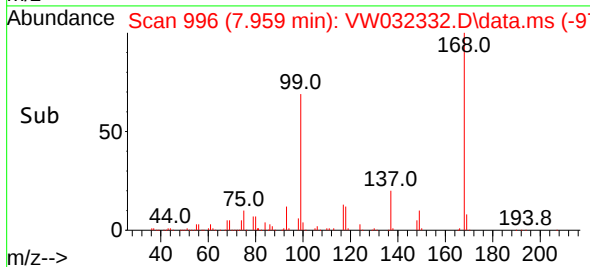
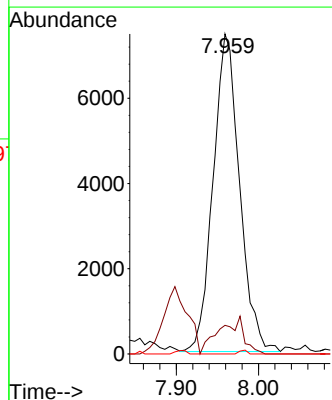
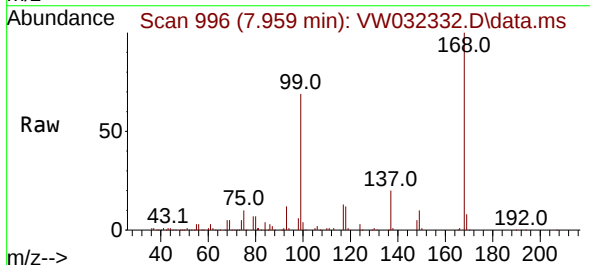
Instrument :
 MSVOA_W
 ClientSampleId :

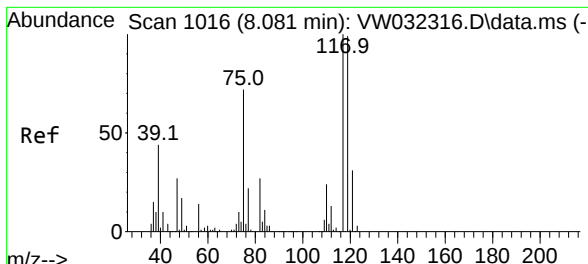
Tgt Ion:113 Resp: 146712
 Ion Ratio Lower Upper
 113 100
 111 103.7 83.9 125.9
 192 15.6 14.6 21.8



#36
 1,1-Dichloropropene
 Concen: 4.664 ug/l
 RT: 7.959 min Scan# 996
 Delta R.T. -0.140 min
 Lab File: VW032332.D
 Acq: 02 Oct 2025 15:03

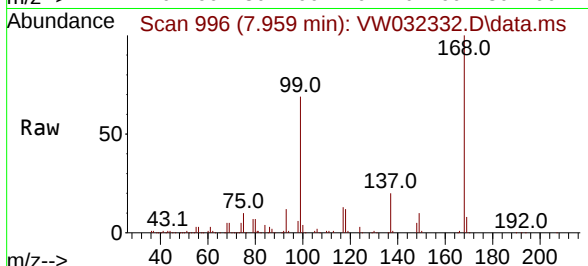
Tgt Ion: 75 Resp: 16631
 Ion Ratio Lower Upper
 75 100
 110 11.1 17.5 52.5#
 77 0.0 24.1 36.1#



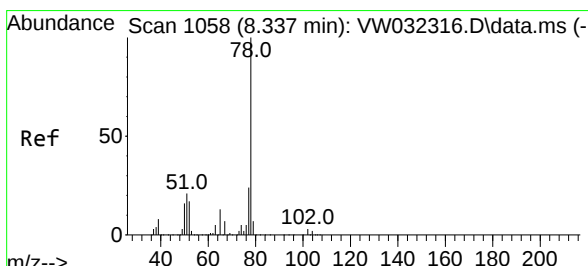
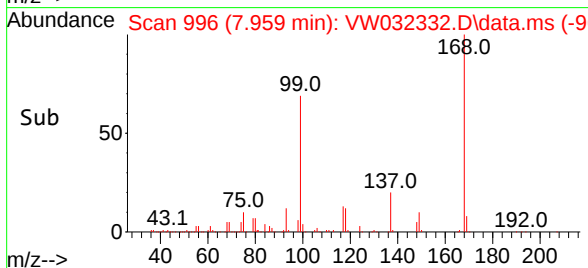
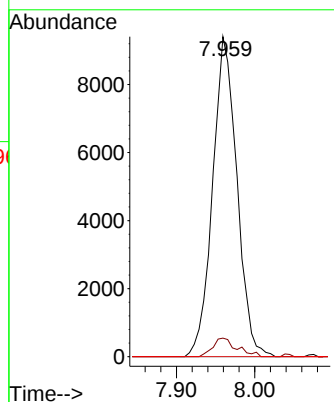


#38
Carbon Tetrachloride
Concen: 6.043 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.128 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

Instrument :
MSVOA_W
ClientSampleId :

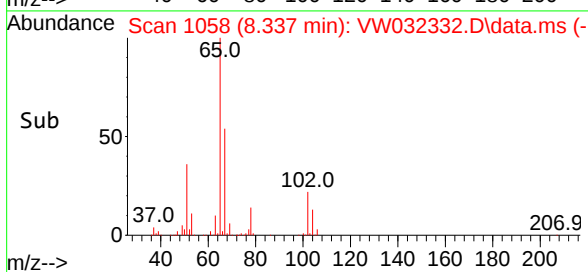
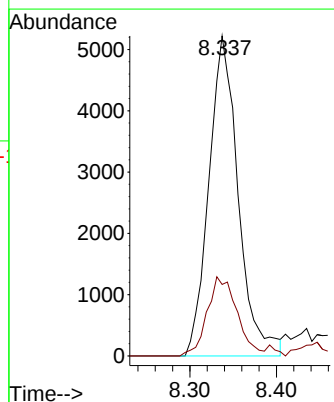
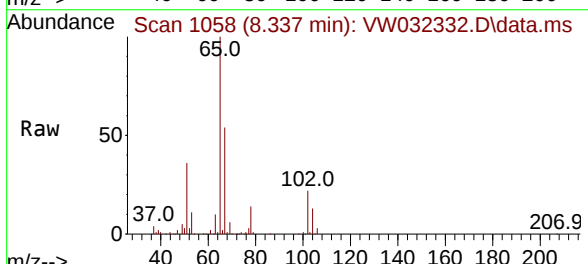


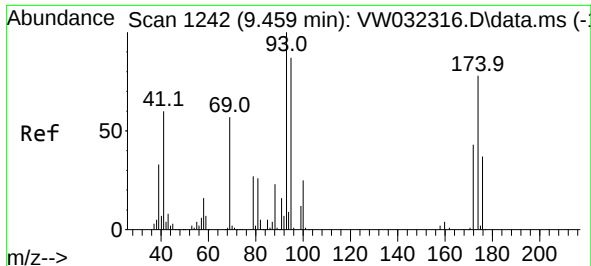
Tgt Ion:117 Resp: 20278
Ion Ratio Lower Upper
117 100
119 5.8 74.2 111.2#
121 0.0 25.6 38.4#



#40
Benzene
Concen: 1.101 ug/l
RT: 8.337 min Scan# 1058
Delta R.T. -0.000 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

Tgt Ion: 78 Resp: 12310
Ion Ratio Lower Upper
78 100
77 22.4 20.7 31.1





#49

1,4-Dioxane

Concen: 1.024 ug/l

RT: 9.294 min Scan# 1215

Delta R.T. -0.165 min

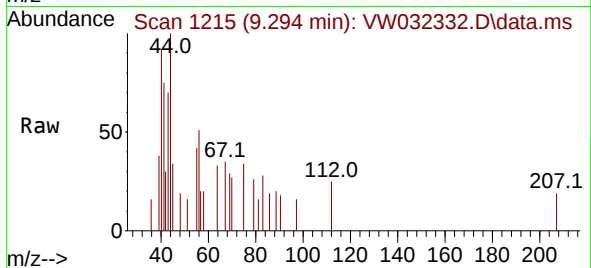
Lab File: VW032332.D

Acq: 02 Oct 2025 15:03

Instrument :

MSVOA_W

ClientSampleId :



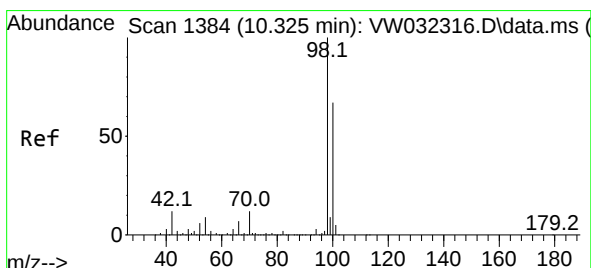
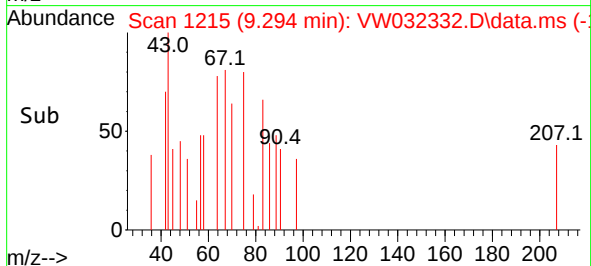
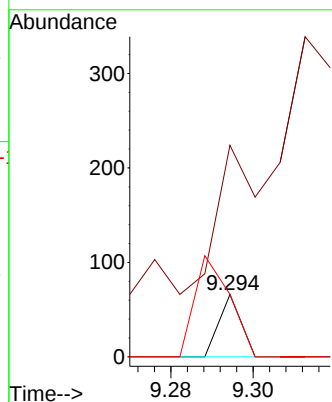
Tgt Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 0.0 18.0 27.0#

58 262.5 55.4 83.0#



#50

Toluene-d8

Concen: 48.379 ug/l

RT: 10.325 min Scan# 1384

Delta R.T. -0.000 min

Lab File: VW032332.D

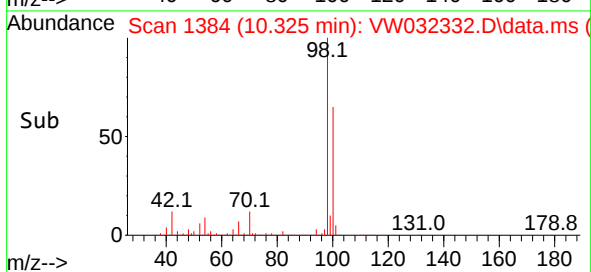
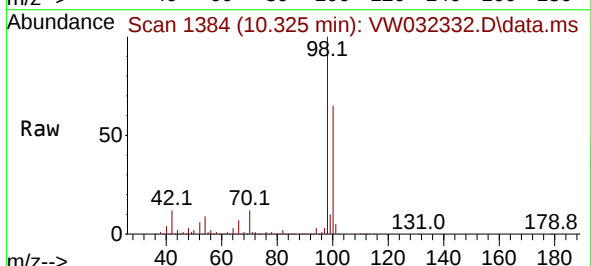
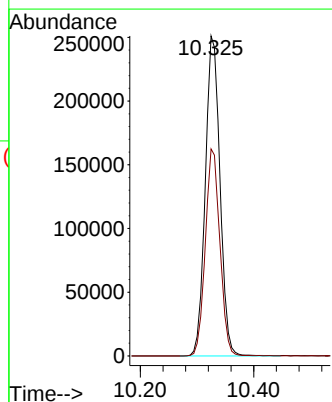
Acq: 02 Oct 2025 15:03

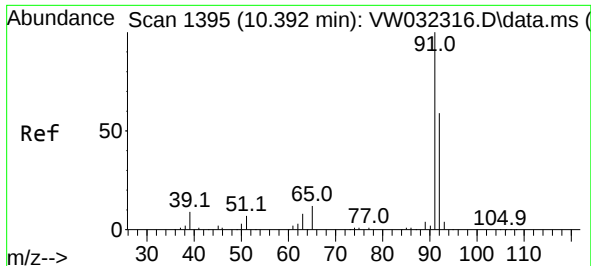
Tgt Ion: 98 Resp: 451150

Ion Ratio Lower Upper

98 100

100 64.2 51.4 77.2

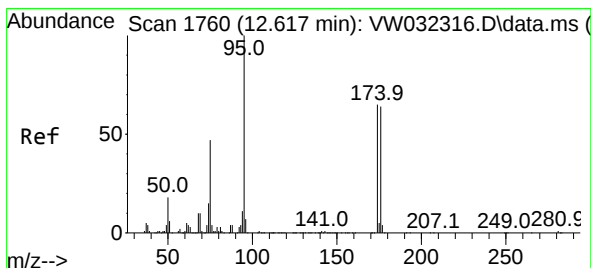
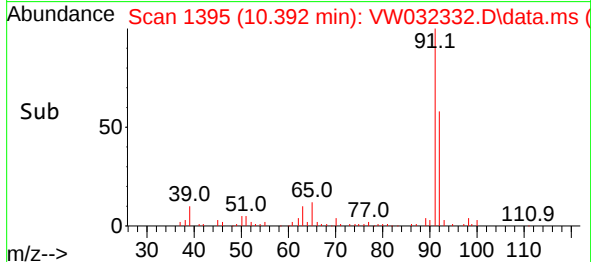
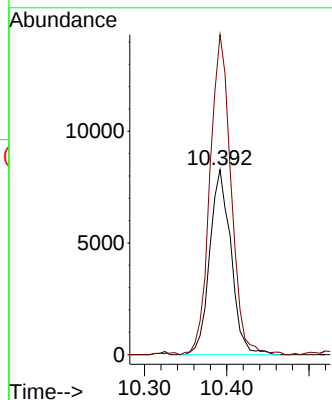
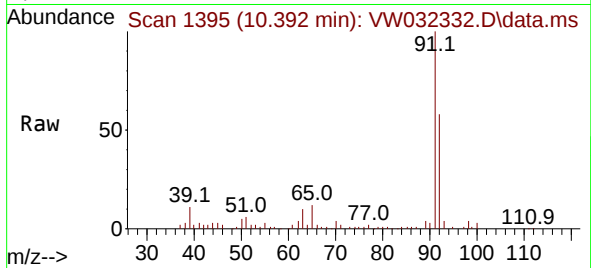




#52
Toluene
Concen: 2.132 ug/l
RT: 10.392 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

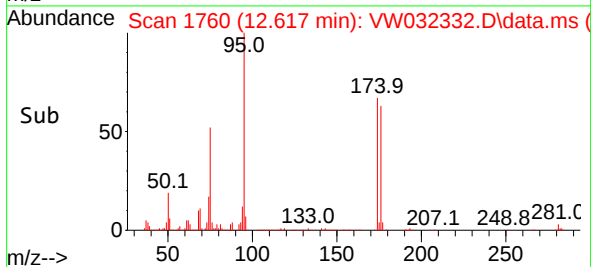
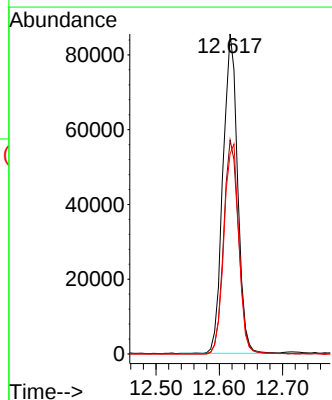
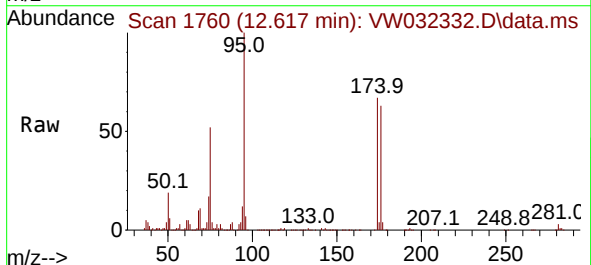
Instrument :
MSVOA_W
ClientSampleId :

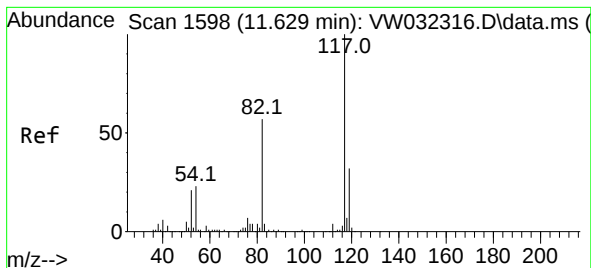
Tgt Ion: 92 Resp: 14839
Ion Ratio Lower Upper
92 100
91 172.2 137.5 206.3



#62
4-Bromofluorobenzene
Concen: 38.922 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

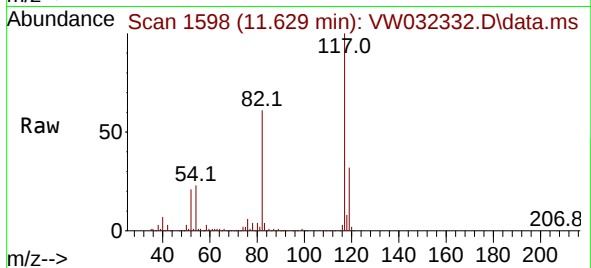
Tgt Ion: 95 Resp: 137188
Ion Ratio Lower Upper
95 100
174 68.0 0.0 145.6
176 66.8 0.0 140.8



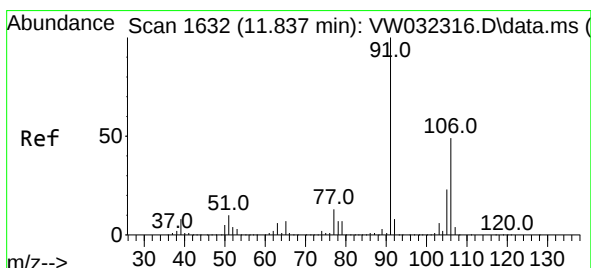
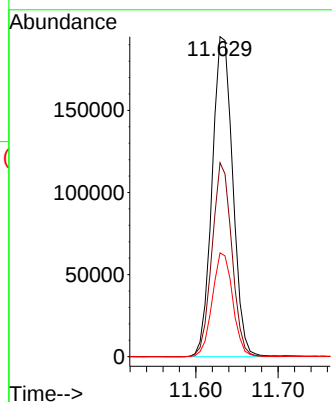
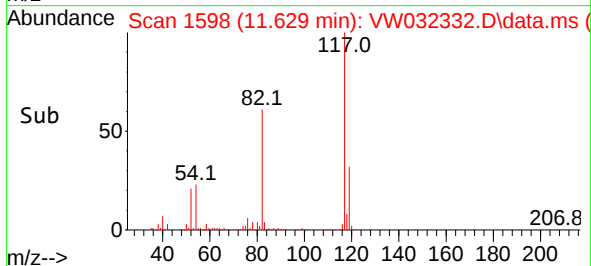


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1159
Delta R.T. -0.000 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

Instrument :
MSVOA_W
ClientSampleId :

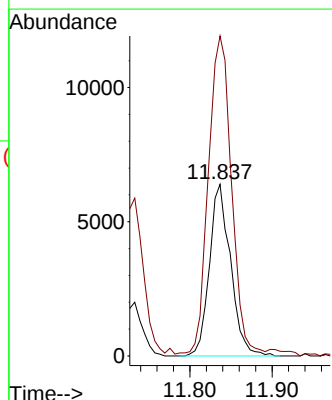
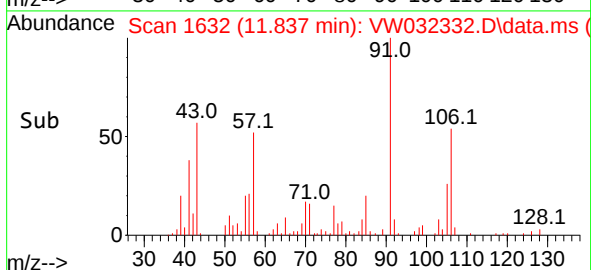
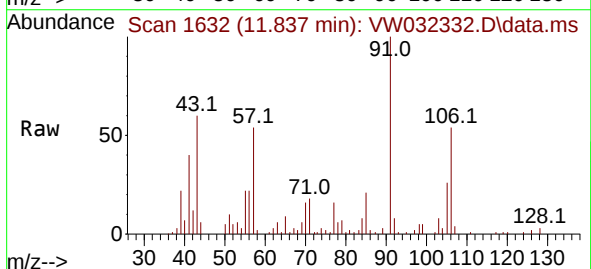


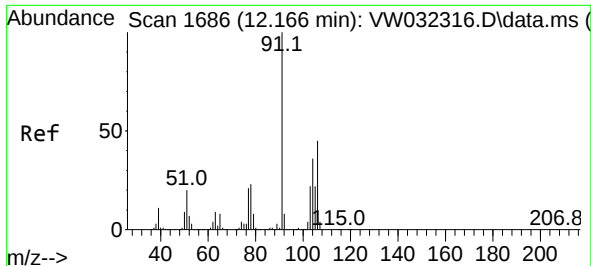
Tgt Ion:117 Resp: 339731
Ion Ratio Lower Upper
117 100
82 60.6 42.7 64.1
119 32.4 25.2 37.8



#68
m/p-Xylenes
Concen: 2.379 ug/l
RT: 11.837 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

Tgt Ion:106 Resp: 11431
Ion Ratio Lower Upper
106 100
91 198.6 164.2 246.2

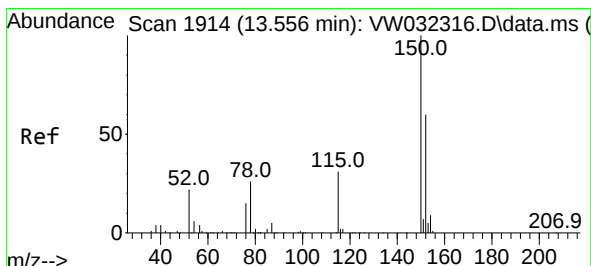
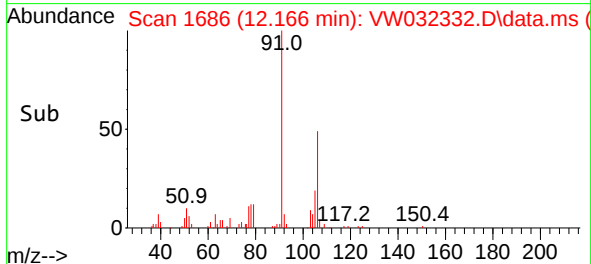
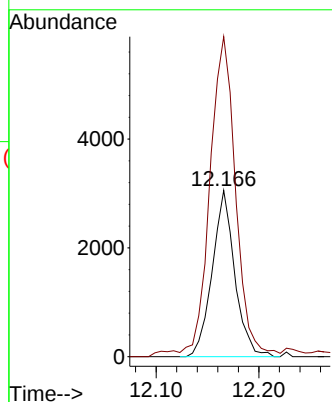
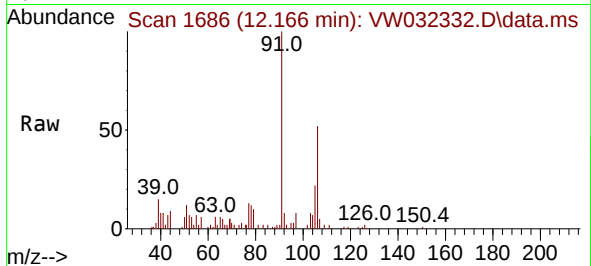




#69
o-Xylene
Concen: 1.034 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

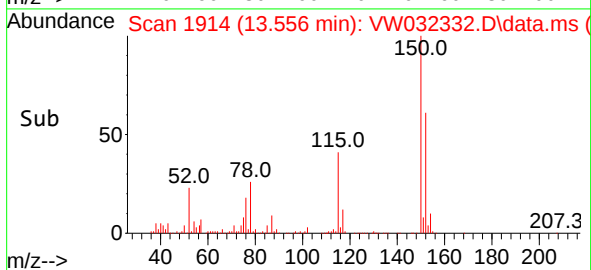
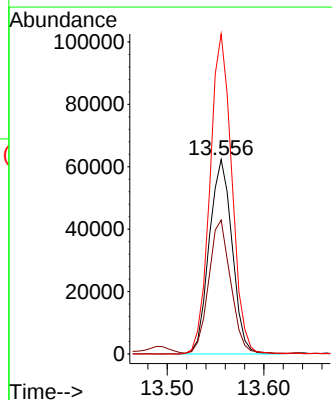
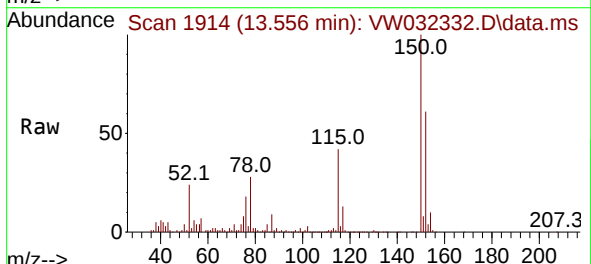
Instrument :
MSVOA_W
ClientSampleId :

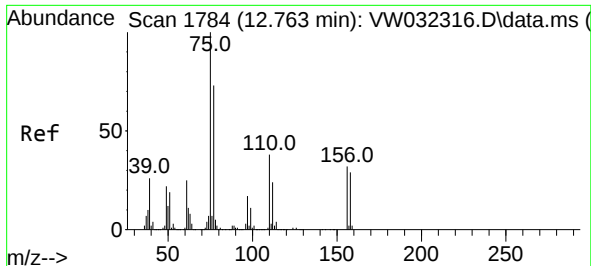
Tgt Ion:106 Resp: 4647
Ion Ratio Lower Upper
106 100
91 222.8 108.7 326.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

Tgt Ion:152 Resp: 102634
Ion Ratio Lower Upper
152 100
115 65.8 31.8 95.4
150 157.7 0.0 343.0

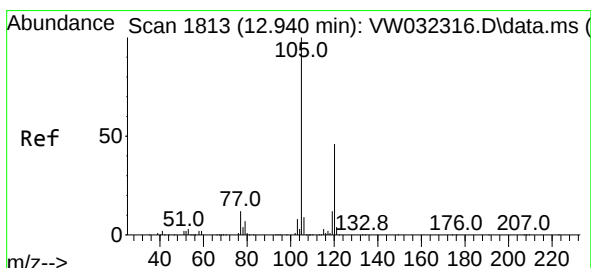
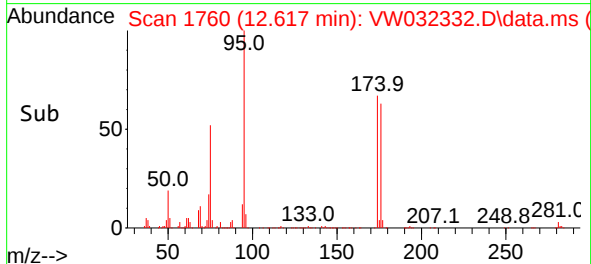
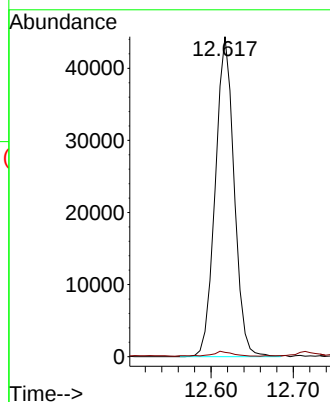
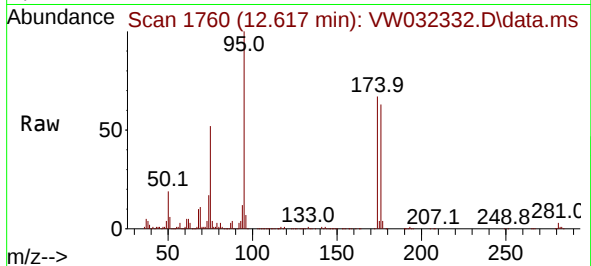




#76
1,2,3-Trichloropropane
Concen: 52.378 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

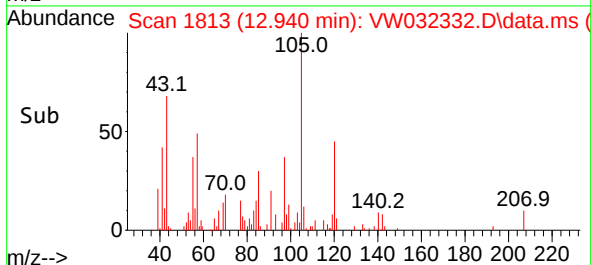
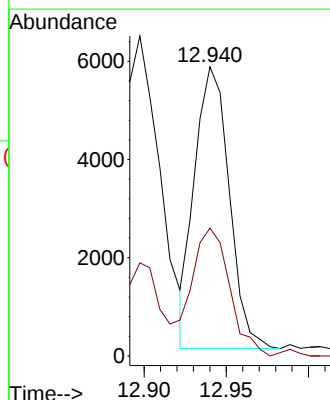
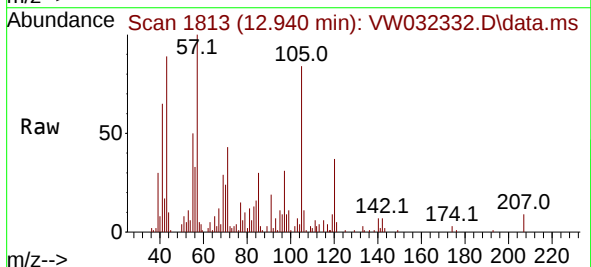
Instrument :
MSVOA_W
ClientSampleId :

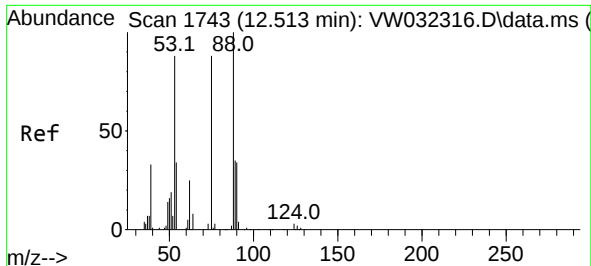
Tgt Ion: 75 Resp: 70743
Ion Ratio Lower Upper
75 100
77 1.5 141.7 425.1#



#80
1,3,5-Trimethylbenzene
Concen: 1.382 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.000 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

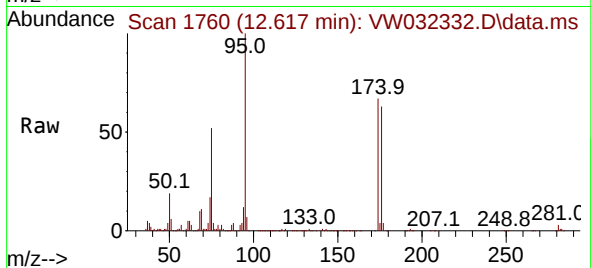
Tgt Ion: 105 Resp: 8392
Ion Ratio Lower Upper
105 100
120 50.7 24.8 74.4



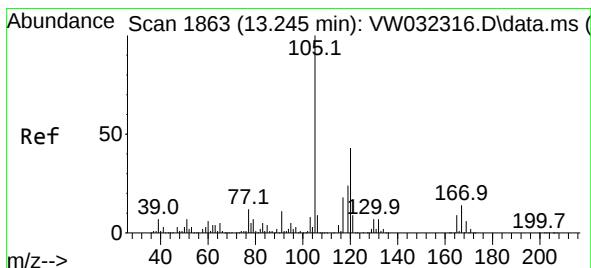
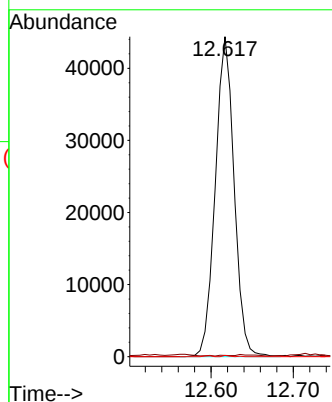
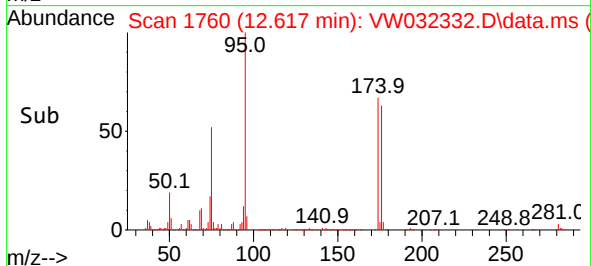


#81
trans-1,4-Dichloro-2-butene
Concen: 132.689 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03

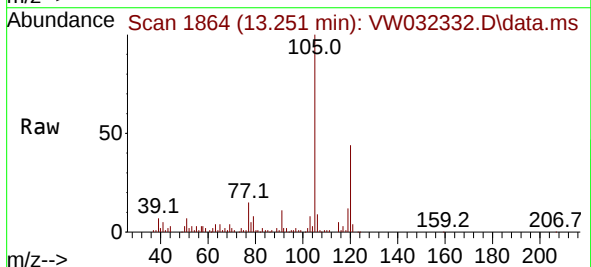
Instrument :
MSVOA_W
ClientSampleId :



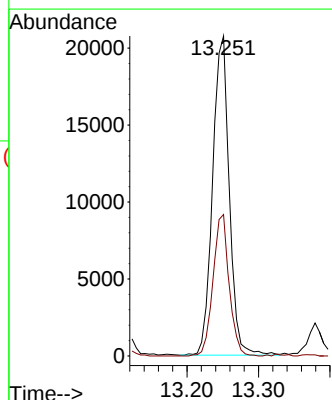
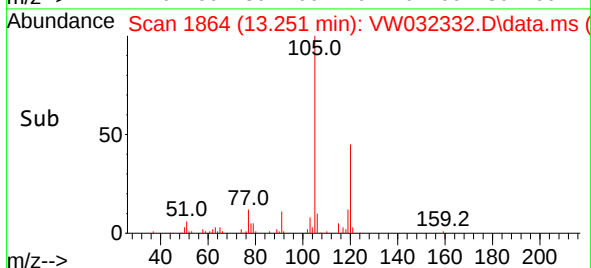
Tgt Ion: 75 Resp: 70743
Ion Ratio Lower Upper
75 100
53 0.5 91.0 136.6#
89 0.2 39.4 59.2#

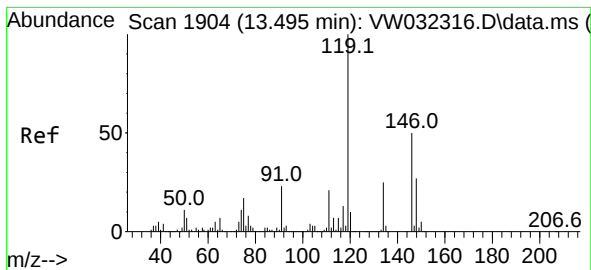


#84
1,2,4-Trimethylbenzene
Concen: 5.434 ug/l
RT: 13.251 min Scan# 1864
Delta R.T. 0.006 min
Lab File: VW032332.D
Acq: 02 Oct 2025 15:03



Tgt Ion: 105 Resp: 33550
Ion Ratio Lower Upper
105 100
120 42.8 22.1 66.3





#86

p-Isopropyltoluene

Concen: 7.579 ug/l

RT: 13.495 min Scan# 1904

Delta R.T. -0.000 min

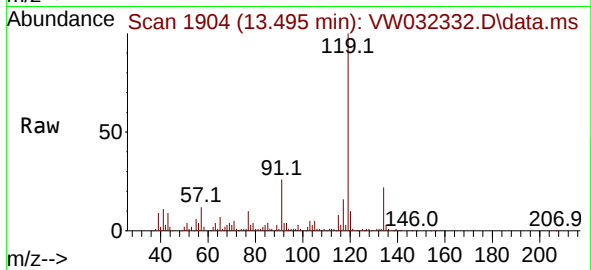
Lab File: VW032332.D

Acq: 02 Oct 2025 15:03

Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion:119 Resp: 47879

Ion Ratio Lower Upper

119 100

134 28.9 12.6 37.6

91 0.0 12.4 37.0#

