

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100625\
 Data File : VW032362.D
 Acq On : 06 Oct 2025 16:17
 Operator : SY/MD
 Sample : Q3295-01
 Misc : 5.08g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 07 03:48:30 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

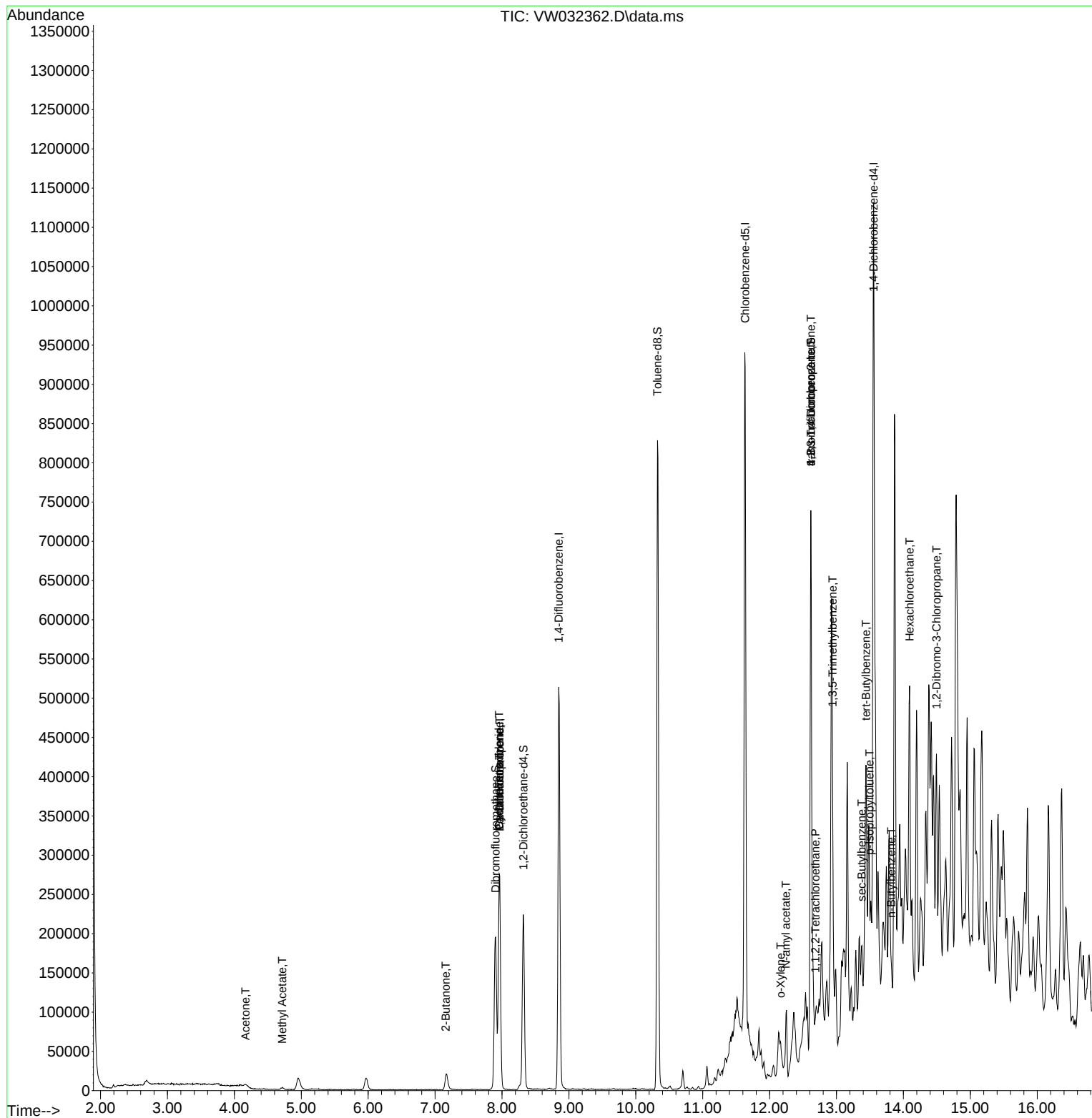
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	186060	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	425683	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	482276	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	240871	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	184011	67.806	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 135.620%		
35) Dibromofluoromethane	7.904	113	149946	54.392	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 108.780%		
50) Toluene-d8	10.325	98	563083	55.342	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 110.680%		
62) 4-Bromofluorobenzene	12.617	95	233093	60.612	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 121.220%		
Target Compounds						Qvalue
16) Acetone	4.167	43	2463	3.278	ug/l	92
18) Methyl Acetate	4.716	43	5474	2.543	ug/l	91
20) Methylene Chloride	4.948	84	13185	Below Cal		93
25) 2-Butanone	7.161	43	1368	1.337	ug/l #	48
31) Cyclohexane	7.959	56	5147	1.347	ug/l #	20
36) 1,1-Dichloropropene	7.965	75	18388	4.726	ug/l #	51
38) Carbon Tetrachloride	7.959	117	22735	6.210	ug/l #	18
69) o-Xylene	12.166	106	6852	1.074	ug/l	86
74) N-amyl acetate	12.245	43	17472	3.323	ug/l #	64
75) 1,1,2,2-Tetrachloroethane	12.684	83	9671	2.364	ug/l #	49
76) 1,2,3-Trichloropropane	12.617	75	120167	37.911	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.940	105	48988	3.438	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.617	75	120167	96.038	ug/l #	5
83) tert-Butylbenzene	13.440	119	45858	3.922	ug/l #	62
85) sec-Butylbenzene	13.379	105	32794	1.835	ug/l	90
86) p-Isopropyltoluene	13.495	119	30139	2.033	ug/l	98
89) n-Butylbenzene	13.818	91	16225	1.121	ug/l #	63
90) Hexachloroethane	14.092	117	15957	6.005	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.495	75	3003	4.192	ug/l #	12

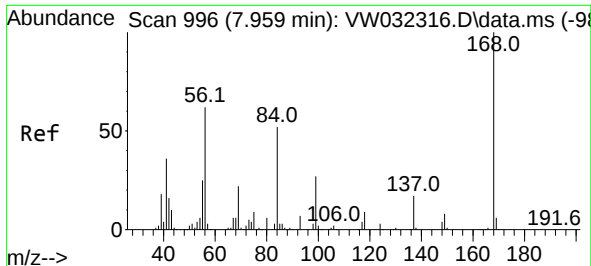
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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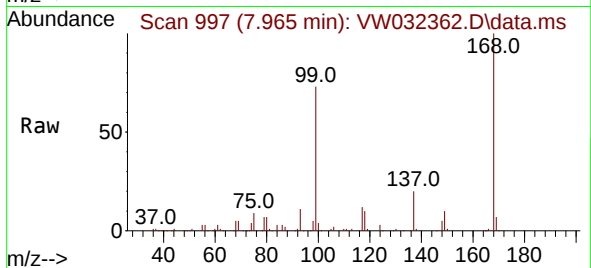
Quant Time: Oct 07 03:48:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
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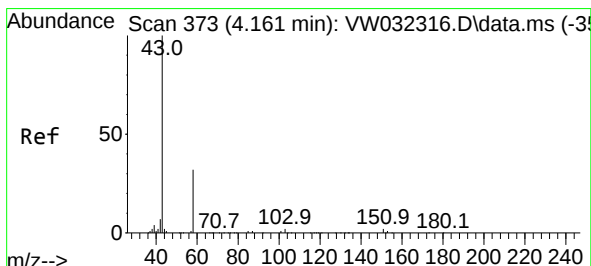
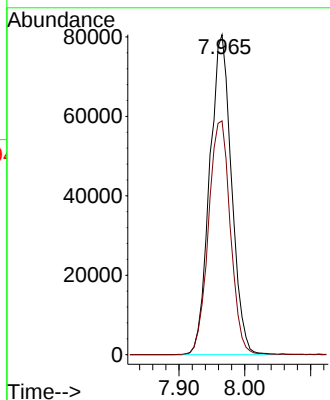
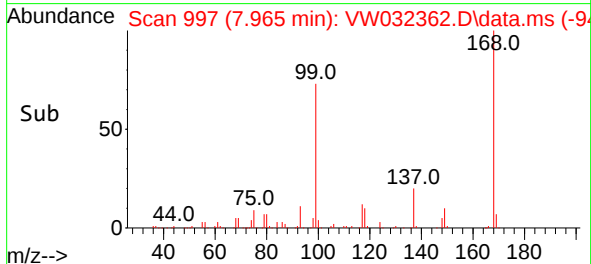


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 996
Delta R.T. 0.000 min
Lab File: VW032362.D
Acq: 06 Oct 2025 16:17

Instrument :
MSVOA_W
ClientSampleId :

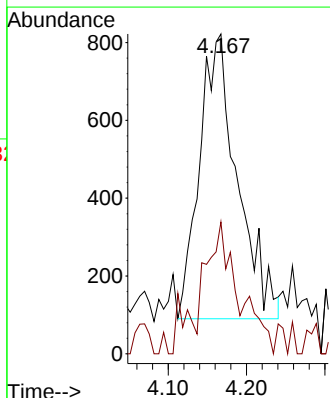
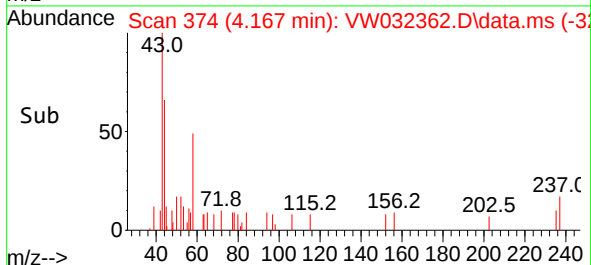
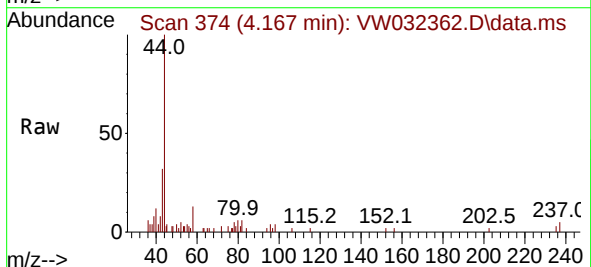


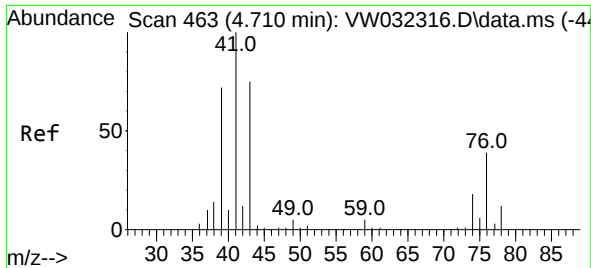
Tgt Ion:168 Resp: 186060
Ion Ratio Lower Upper
168 100
99 72.9 49.3 73.9



#16
Acetone
Concen: 3.278 ug/l
RT: 4.167 min Scan# 374
Delta R.T. 0.006 min
Lab File: VW032362.D
Acq: 06 Oct 2025 16:17

Tgt Ion: 43 Resp: 2463
Ion Ratio Lower Upper
43 100
58 35.8 25.3 37.9

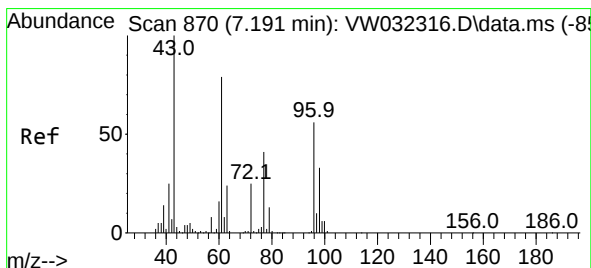
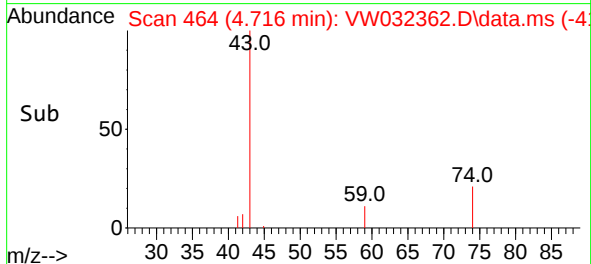
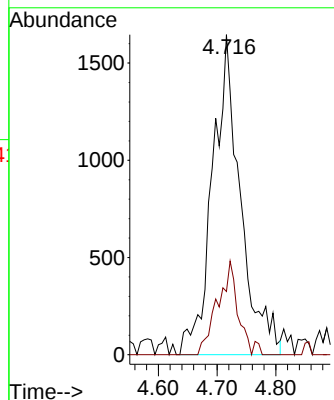
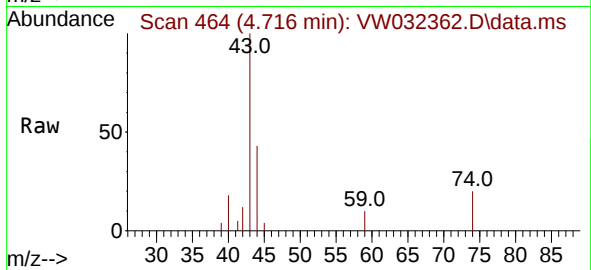




#18
Methyl Acetate
Concen: 2.543 ug/l
RT: 4.716 min Scan# 41
Delta R.T. 0.006 min
Lab File: VW032362.D
Acq: 06 Oct 2025 16:17

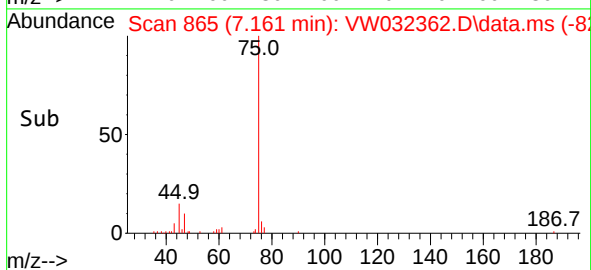
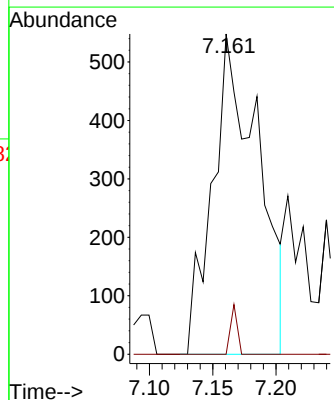
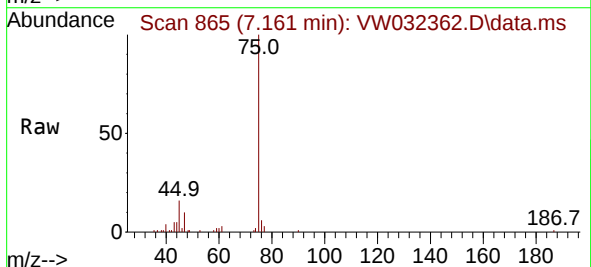
Instrument :
MSVOA_W
ClientSampleId :

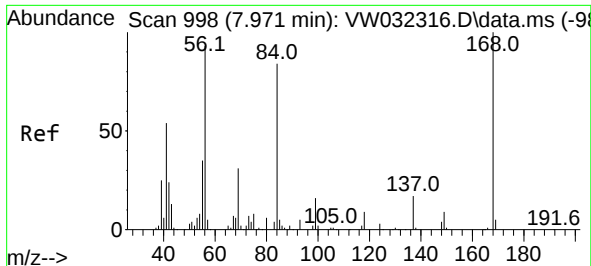
Tgt Ion: 43 Resp: 5474
Ion Ratio Lower Upper
43 100
74 20.8 20.2 30.4



#25
2-Butanone
Concen: 1.337 ug/l
RT: 7.161 min Scan# 865
Delta R.T. -0.031 min
Lab File: VW032362.D
Acq: 06 Oct 2025 16:17

Tgt Ion: 43 Resp: 1368
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.2#

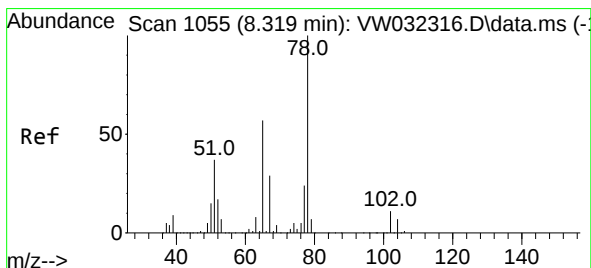
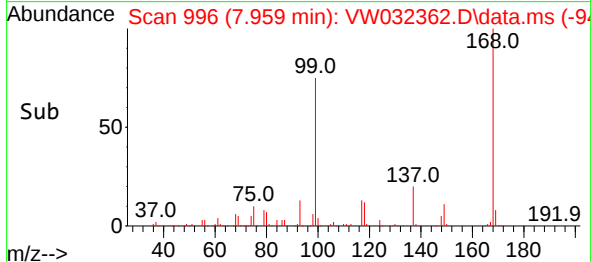
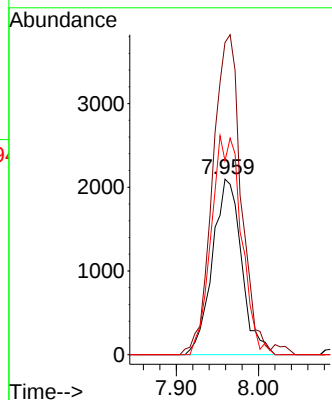
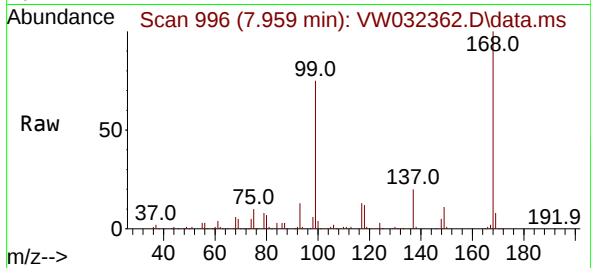




#31
Cyclohexane
Concen: 1.347 ug/l
RT: 7.959 min Scan# 998
Delta R.T. -0.012 min
Lab File: VW032362.D
Acq: 06 Oct 2025 16:17

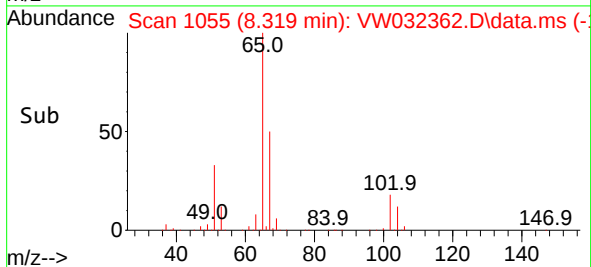
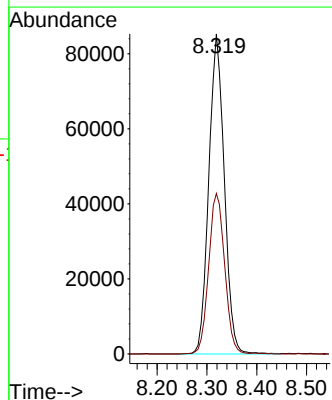
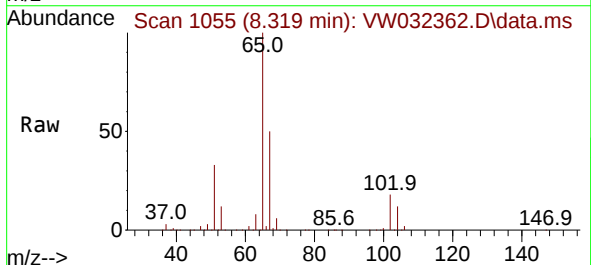
Instrument :
MSVOA_W
ClientSampleId :

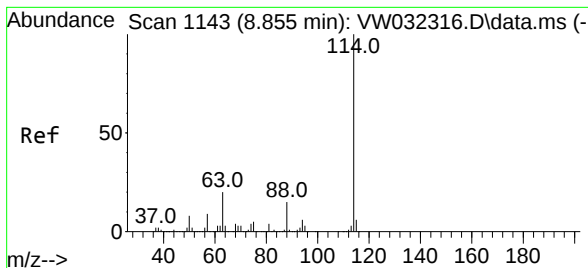
Tgt Ion: 56 Resp: 5147
Ion Ratio Lower Upper
56 100
69 177.8 27.7 41.5#
84 110.4 74.6 112.0



#33
1,2-Dichloroethane-d4
Concen: 67.806 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032362.D
Acq: 06 Oct 2025 16:17

Tgt Ion: 65 Resp: 184011
Ion Ratio Lower Upper
65 100
67 51.8 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: VW032362.D

Acq: 06 Oct 2025 16:17

Instrument :

MSVOA_W

ClientSampleId :

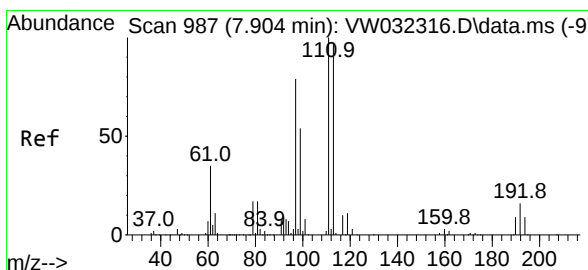
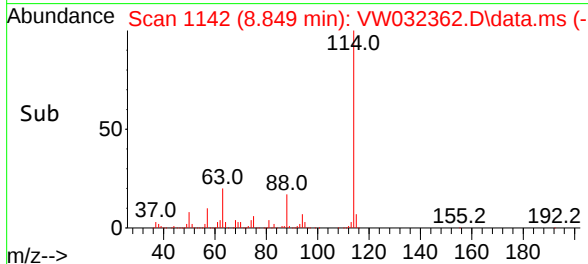
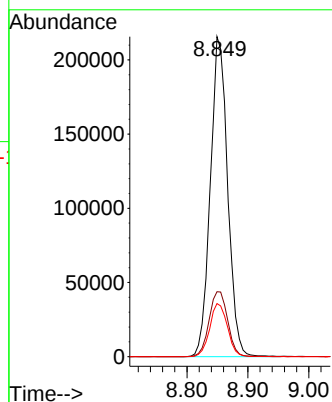
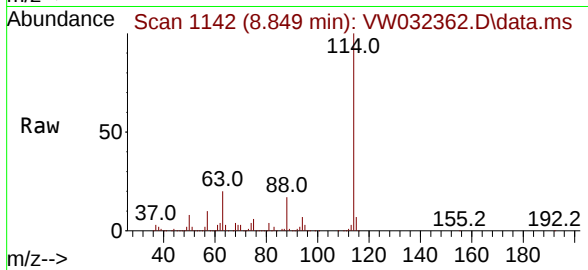
Tgt Ion:114 Resp: 425683

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.4

88 16.6 0.0 32.0



#35

Dibromofluoromethane

Concen: 54.392 ug/l

RT: 7.904 min Scan# 987

Delta R.T. -0.000 min

Lab File: VW032362.D

Acq: 06 Oct 2025 16:17

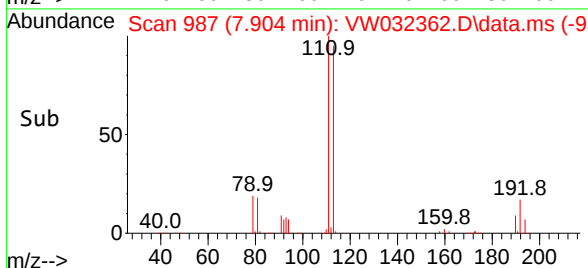
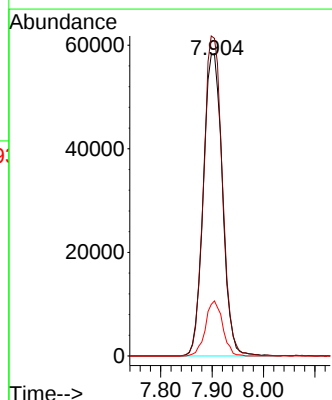
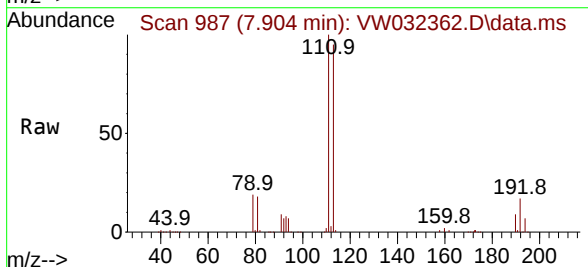
Tgt Ion:113 Resp: 149946

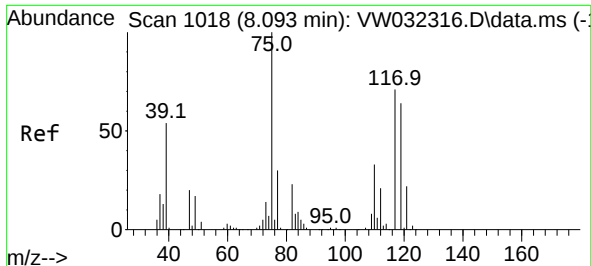
Ion Ratio Lower Upper

113 100

111 103.9 83.9 125.9

192 16.5 14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.726 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.134 min

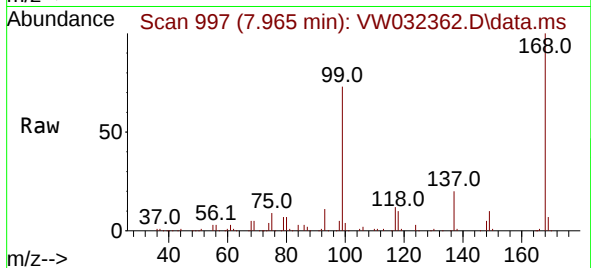
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Acq: 06 Oct 2025 16:17

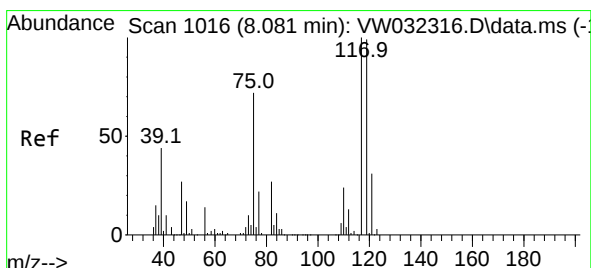
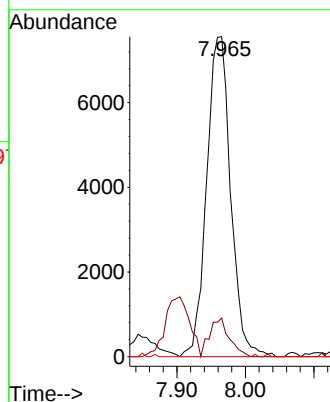
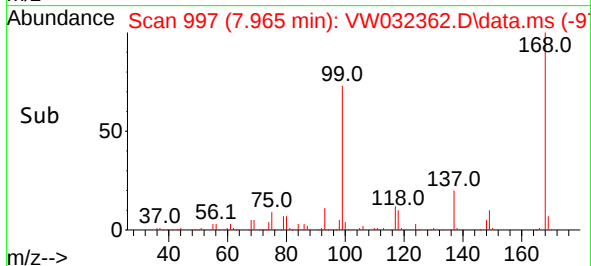
Instrument :

MSVOA_W

ClientSampleId :



Tgt Ion: 75	Resp: 18388
Ion Ratio	Lower Upper
75	100
110	9.9 17.5 52.5#
77	0.0 24.1 36.1#



#38

Carbon Tetrachloride

Concen: 6.210 ug/l

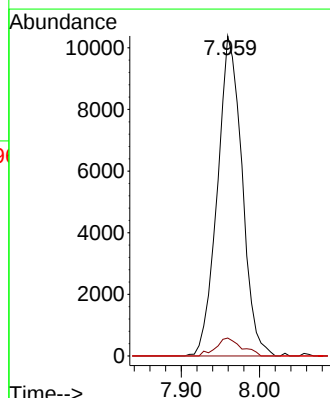
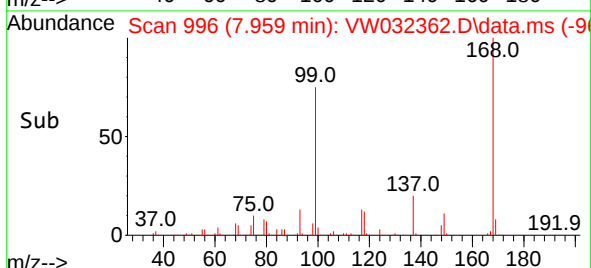
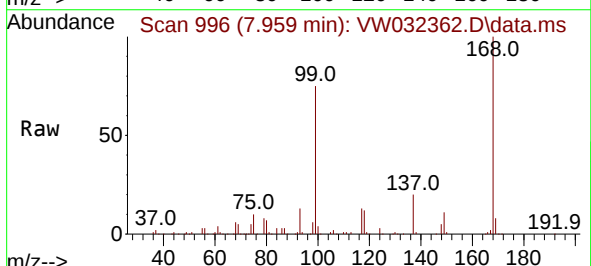
RT: 7.959 min Scan# 996

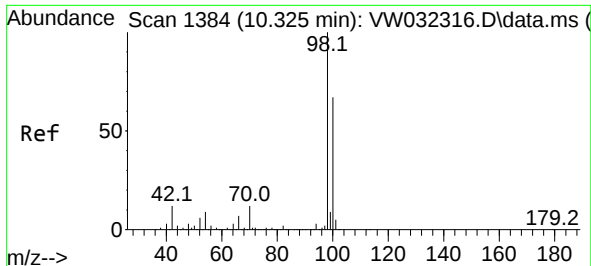
Delta R.T. -0.128 min

Lab File: VW032362.D

Acq: 06 Oct 2025 16:17

Tgt Ion: 117	Resp: 22735
Ion Ratio	Lower Upper
117	100
119	5.6 74.2 111.2#
121	0.0 25.6 38.4#

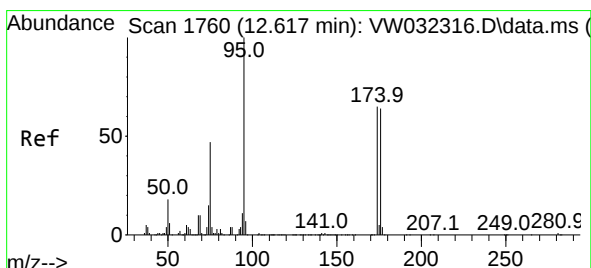
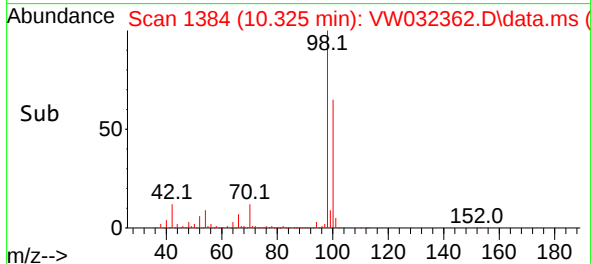
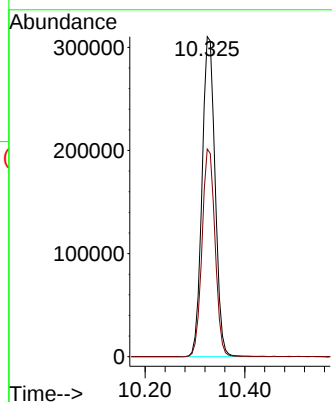
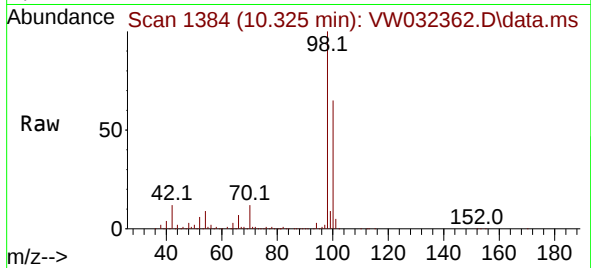




#50
Toluene-d8
Concen: 55.342 ug/l
RT: 10.325 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032362.D
Acq: 06 Oct 2025 16:17

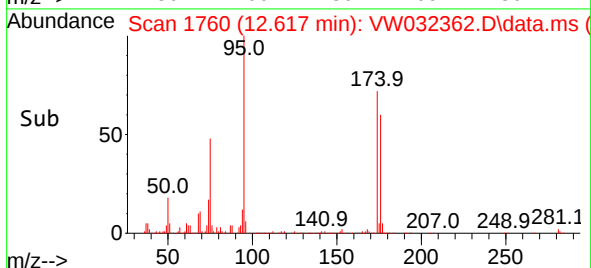
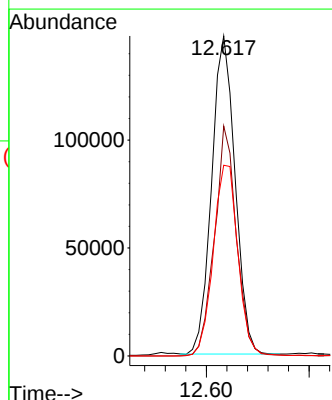
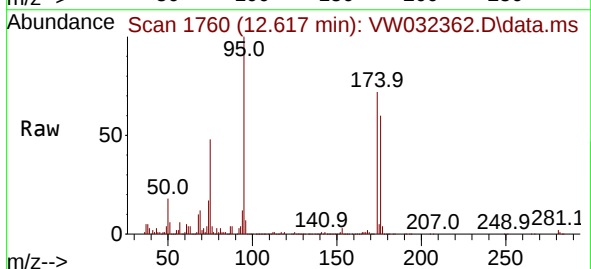
Instrument :
MSVOA_W
ClientSampleId :

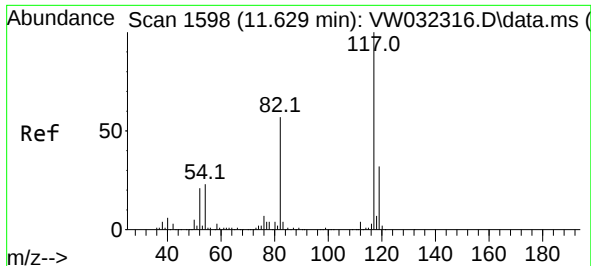
Tgt Ion: 98 Resp: 563083
Ion Ratio Lower Upper
98 100
100 64.7 51.4 77.2



#62
4-Bromofluorobenzene
Concen: 60.612 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032362.D
Acq: 06 Oct 2025 16:17

Tgt Ion: 95 Resp: 233093
Ion Ratio Lower Upper
95 100
174 67.8 0.0 145.6
176 63.3 0.0 140.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.635 min Scan# 11

Delta R.T. 0.006 min

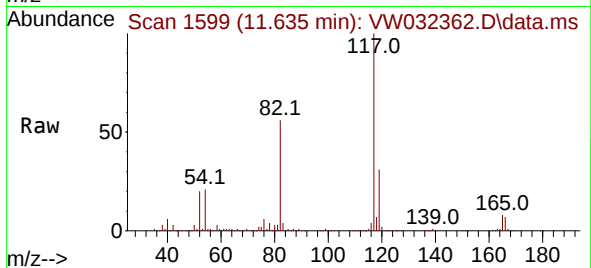
Lab File: VW032362.D

Acq: 06 Oct 2025 16:17

Instrument :

MSVOA_W

ClientSampleId :



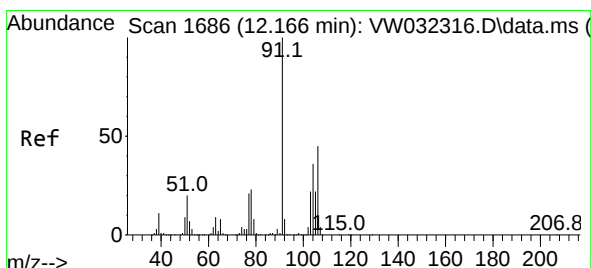
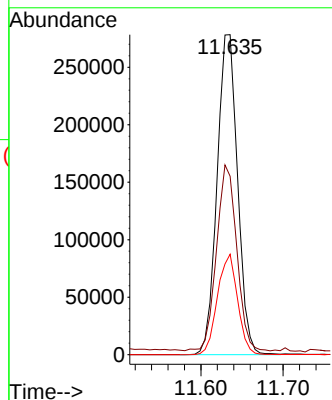
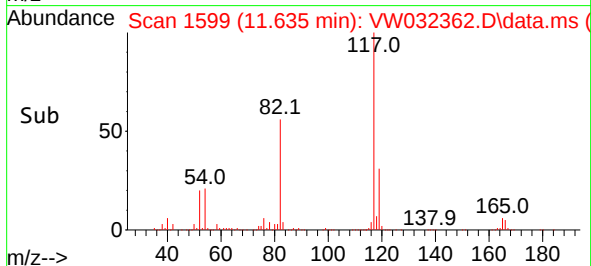
Tgt Ion:117 Resp: 482276

Ion Ratio Lower Upper

117 100

82 54.5 42.7 64.1

119 31.4 25.2 37.8



#69

o-Xylene

Concen: 1.074 ug/l

RT: 12.166 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VW032362.D

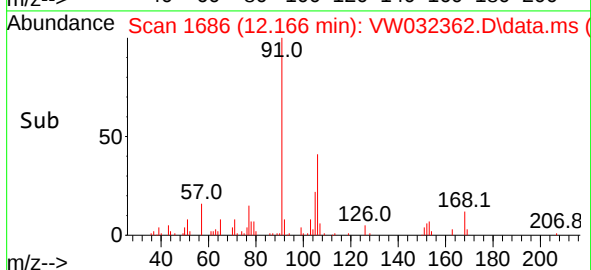
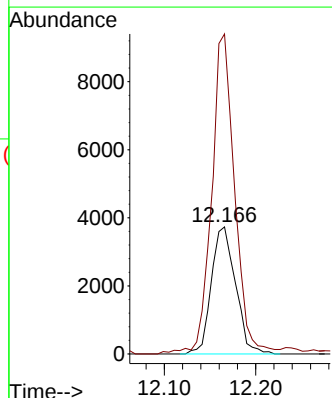
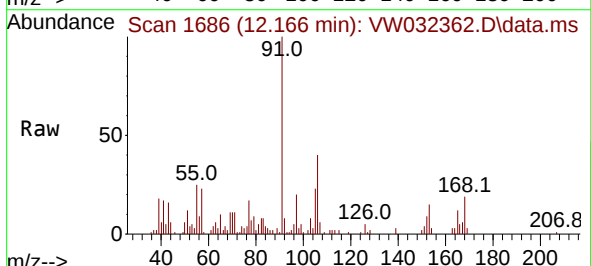
Acq: 06 Oct 2025 16:17

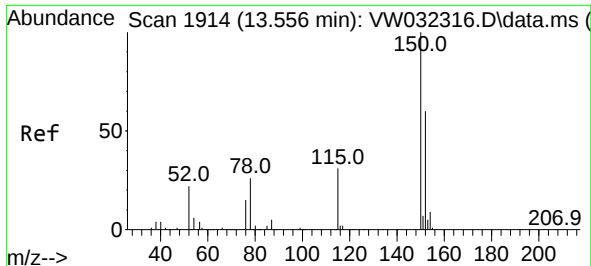
Tgt Ion:106 Resp: 6852

Ion Ratio Lower Upper

106 100

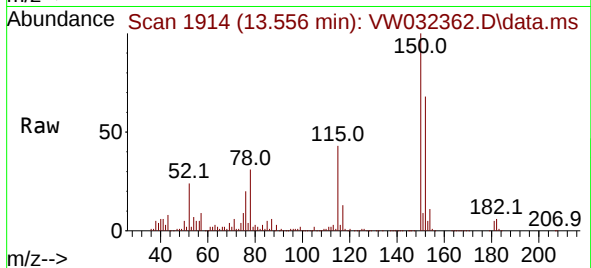
91 239.8 108.7 326.3



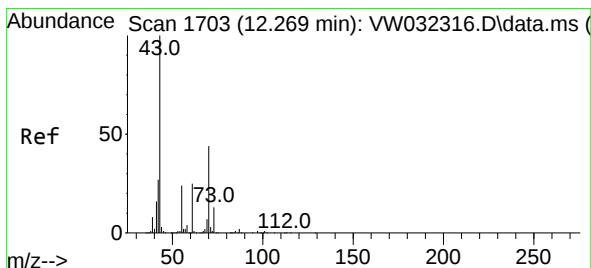
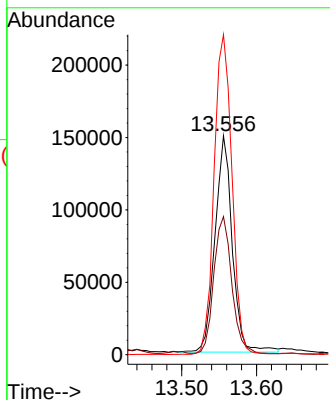
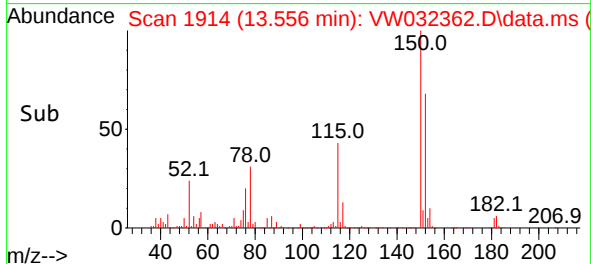


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032362.D
Acq: 06 Oct 2025 16:17

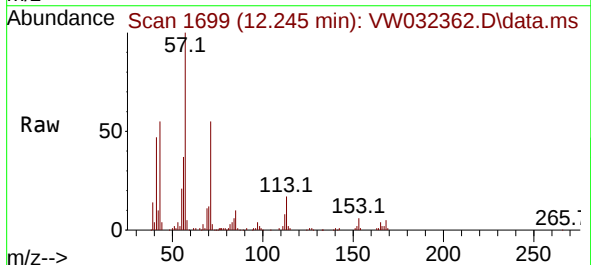
Instrument :
MSVOA_W
ClientSampleId :



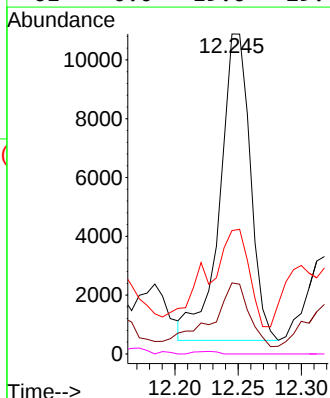
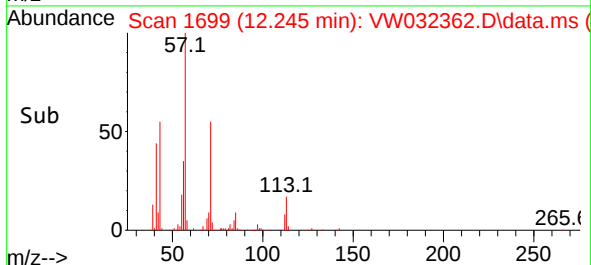
Tgt Ion:152 Resp: 240871
Ion Ratio Lower Upper
152 100
115 65.6 31.8 95.4
150 152.4 0.0 343.0

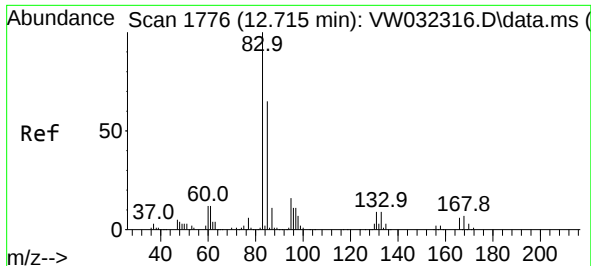


#74
N-ethyl acetate
Concen: 3.323 ug/l
RT: 12.245 min Scan# 1699
Delta R.T. -0.024 min
Lab File: VW032362.D
Acq: 06 Oct 2025 16:17



Tgt Ion: 43 Resp: 17472
Ion Ratio Lower Upper
43 100
70 25.6 35.3 52.9#
55 42.7 19.9 29.9#
61 0.0 19.6 29.4#

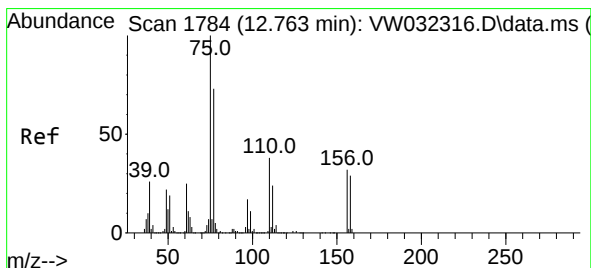
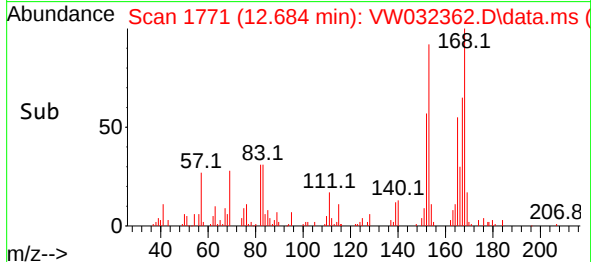
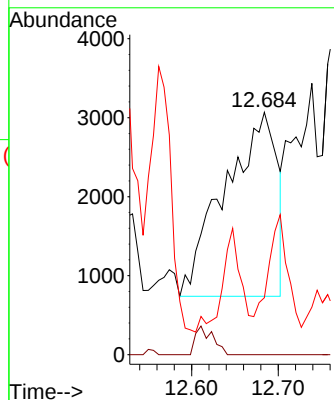
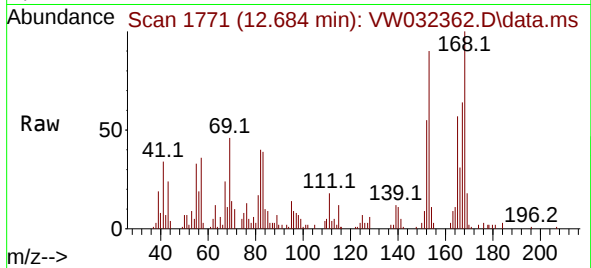




#75
1,1,2,2-Tetrachloroethane
Concen: 2.364 ug/l
RT: 12.684 min Scan# 1771
Delta R.T. -0.031 min
Lab File: VW032362.D
Acq: 06 Oct 2025 16:17

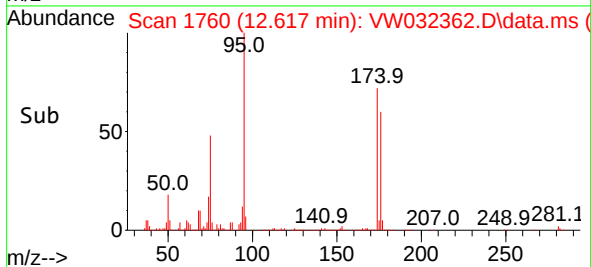
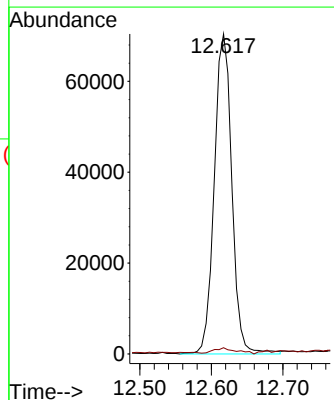
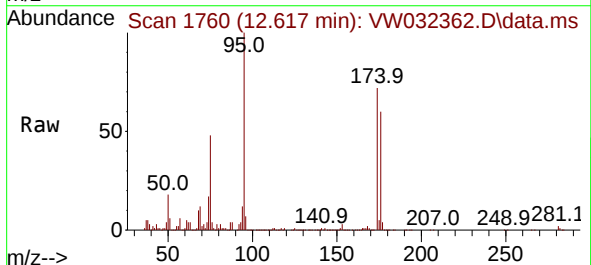
Instrument :
MSVOA_W
ClientSampleId :

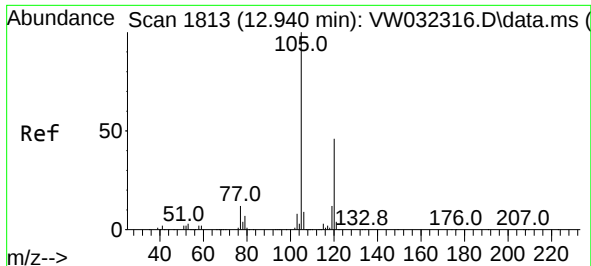
Tgt Ion: 83 Resp: 9671
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.4#
85 21.7 32.2 96.6#



#76
1,2,3-Trichloropropane
Concen: 37.911 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032362.D
Acq: 06 Oct 2025 16:17

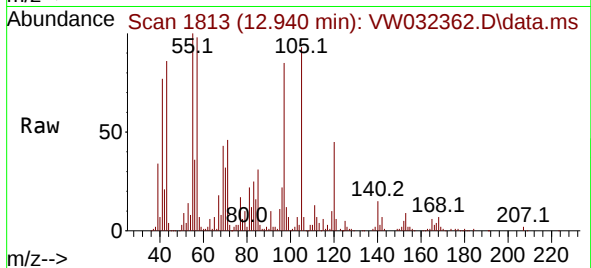
Tgt Ion: 75 Resp: 120167
Ion Ratio Lower Upper
75 100
77 2.5 141.7 425.1#



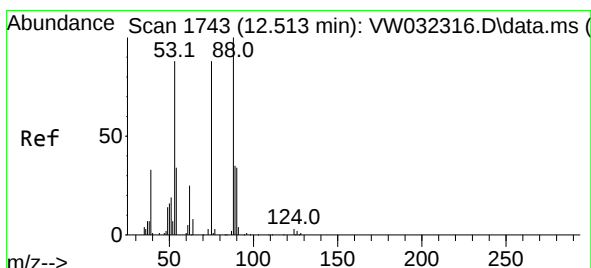
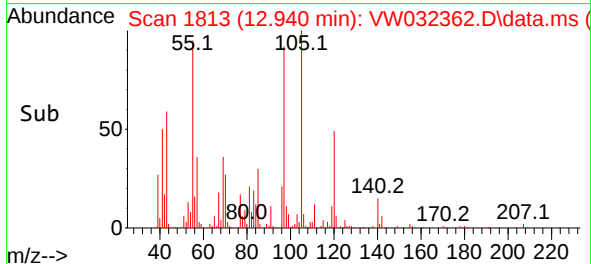
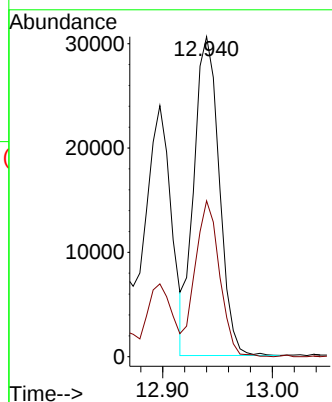


#80
 1,3,5-Trimethylbenzene
 Concen: 3.438 ug/l
 RT: 12.940 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VW032362.D
 Acq: 06 Oct 2025 16:17

Instrument :
 MSVOA_W
 ClientSampleId :

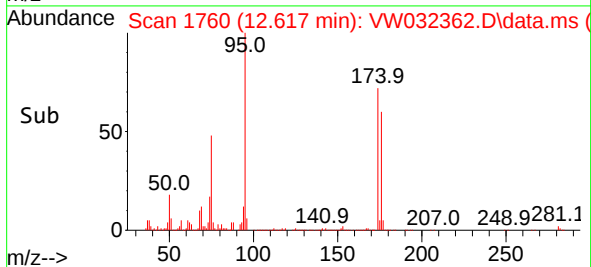
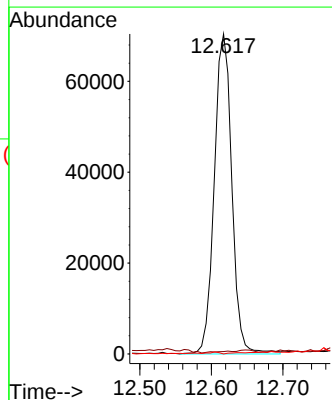
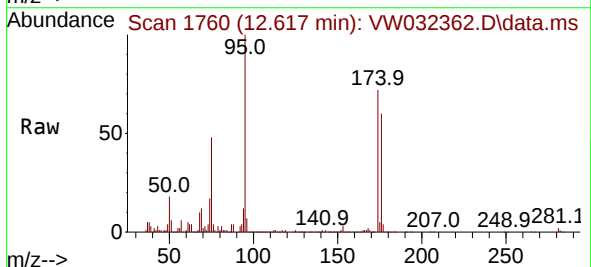


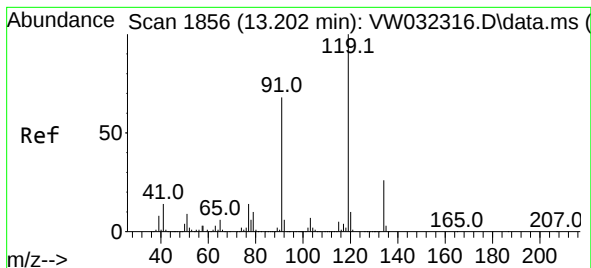
Tgt Ion:105 Resp: 48988
 Ion Ratio Lower Upper
 105 100
 120 47.5 24.8 74.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 96.038 ug/l
 RT: 12.617 min Scan# 1760
 Delta R.T. 0.104 min
 Lab File: VW032362.D
 Acq: 06 Oct 2025 16:17

Tgt Ion: 75 Resp: 120167
 Ion Ratio Lower Upper
 75 100
 53 0.0 91.0 136.6#
 89 0.5 39.4 59.2#





#83

tert-Butylbenzene

Concen: 3.922 ug/l

RT: 13.440 min Scan# 1895

Delta R.T. 0.238 min

Lab File: VW032362.D

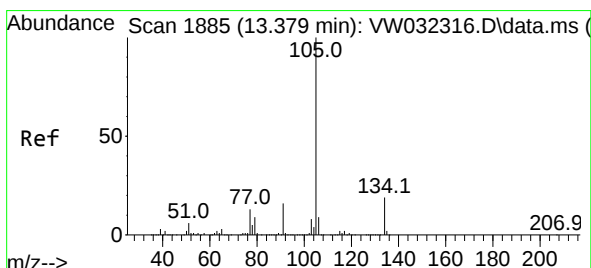
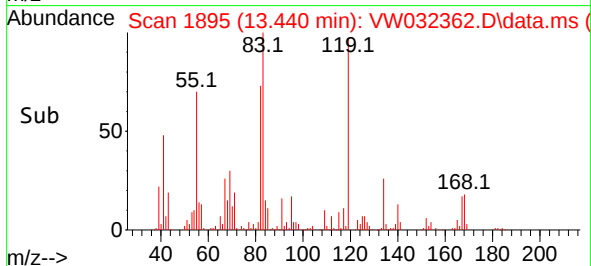
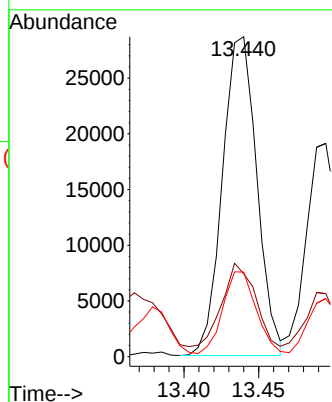
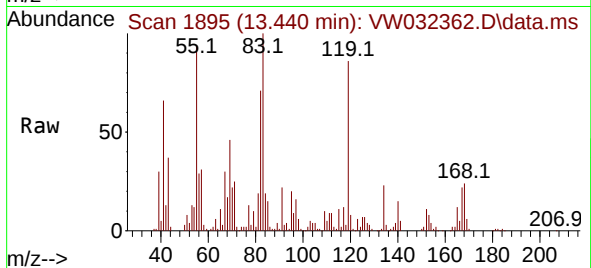
Acq: 06 Oct 2025 16:17

Instrument :

MSVOA_W

ClientSampleId :

Tgt Ion:119	Resp:	45858
Ion Ratio	Lower	Upper
119	100	
91	25.2	33.8 101.3#
134	24.9	12.5 37.5



#85

sec-Butylbenzene

Concen: 1.835 ug/l

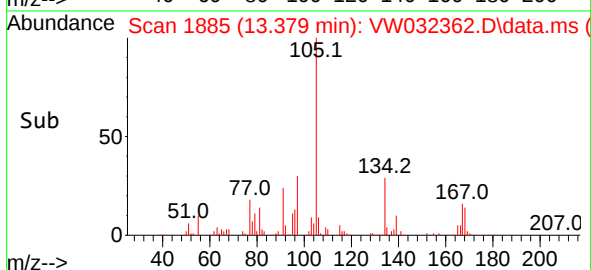
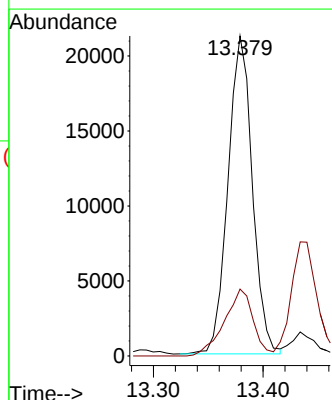
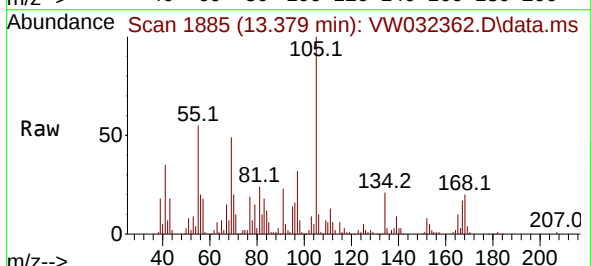
RT: 13.379 min Scan# 1885

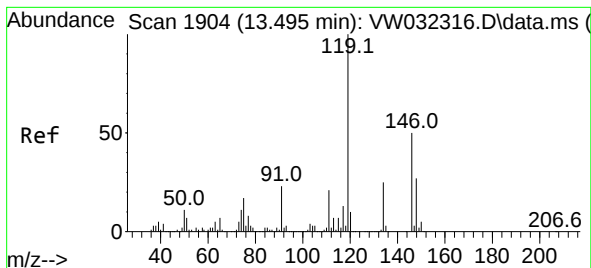
Delta R.T. -0.000 min

Lab File: VW032362.D

Acq: 06 Oct 2025 16:17

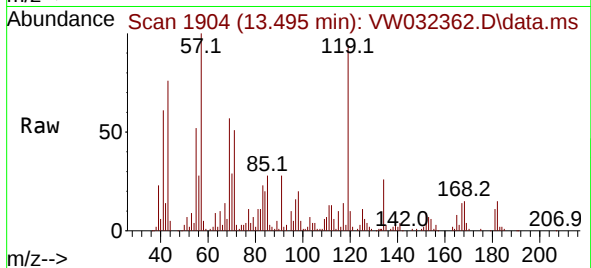
Tgt Ion:105	Resp:	32794
Ion Ratio	Lower	Upper
105	100	
134	24.9	10.1 30.1



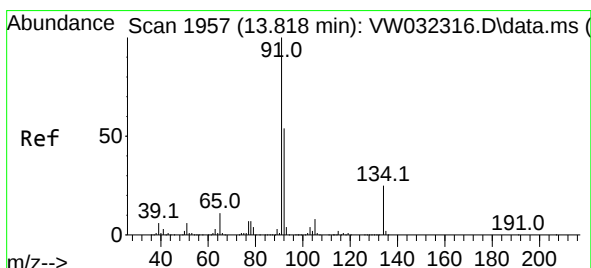
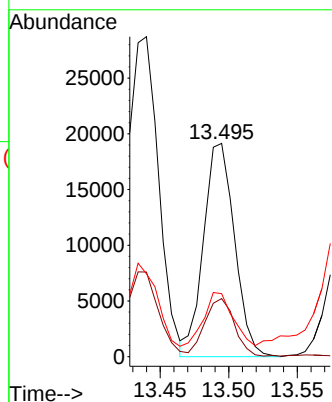
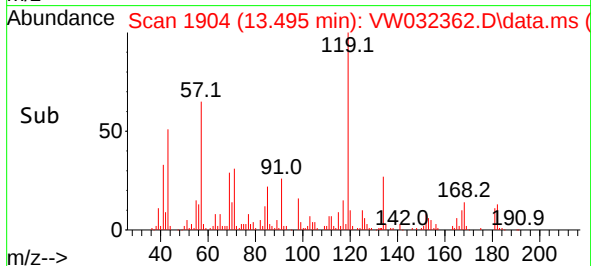


#86
p-Isopropyltoluene
Concen: 2.033 ug/l
RT: 13.495 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VW032362.D
Acq: 06 Oct 2025 16:17

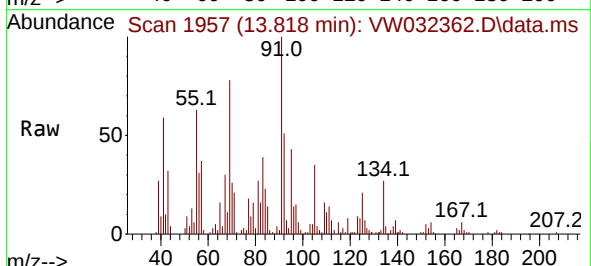
Instrument :
MSVOA_W
ClientSampleId :



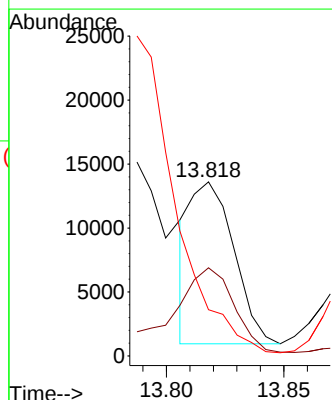
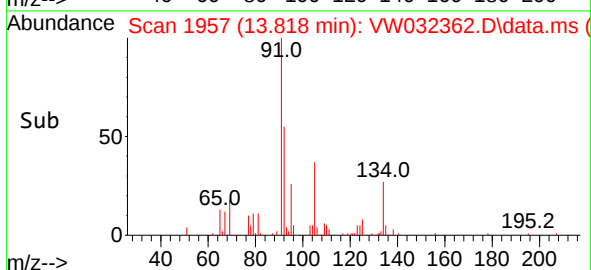
Tgt Ion:119 Resp: 30139
Ion Ratio Lower Upper
119 100
134 25.5 12.6 37.6
91 23.4 12.4 37.0

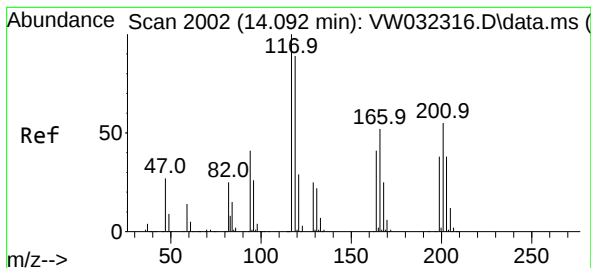


#89
n-Butylbenzene
Concen: 1.121 ug/l
RT: 13.818 min Scan# 1957
Delta R.T. -0.000 min
Lab File: VW032362.D
Acq: 06 Oct 2025 16:17



Tgt Ion: 91 Resp: 16225
Ion Ratio Lower Upper
91 100
92 75.7 27.0 81.0
134 0.0 13.1 39.3#





#90

Hexachloroethane

Concen: 6.005 ug/l

RT: 14.092 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VW032362.D

Acq: 06 Oct 2025 16:17

Instrument :

MSVOA_W

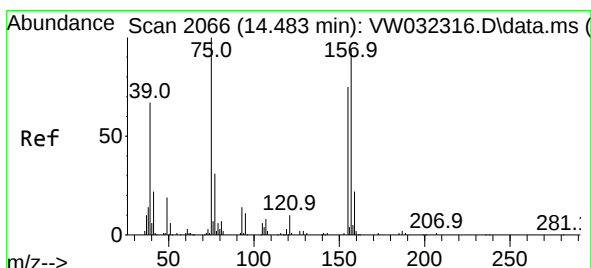
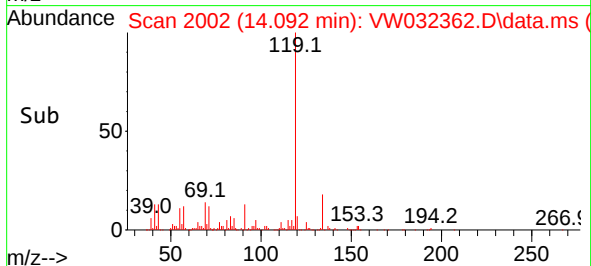
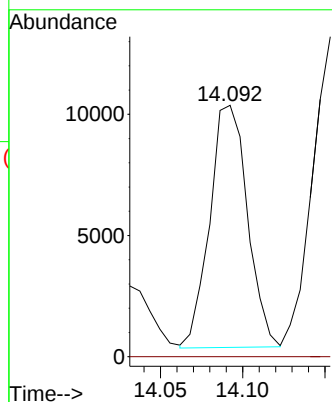
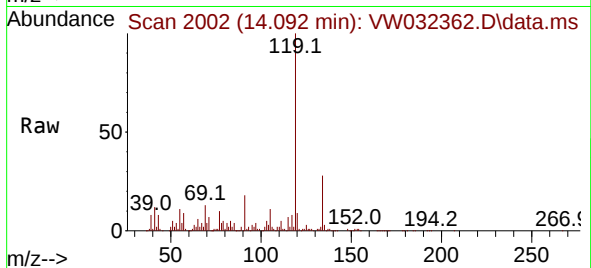
ClientSampleId :

Tgt Ion:117 Resp: 15957

Ion Ratio Lower Upper

117 100

201 0.0 32.8 98.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.192 ug/l

RT: 14.495 min Scan# 2068

Delta R.T. 0.012 min

Lab File: VW032362.D

Acq: 06 Oct 2025 16:17

Tgt Ion: 75 Resp: 3003

Ion Ratio Lower Upper

75 100

155 19.0 40.8 122.5#

157 0.0 51.8 155.4#

