

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120825\
 Data File : VW032599.D
 Acq On : 08 Dec 2025 16:15
 Operator : SY/MD
 Sample : Q3809-02
 Misc : 4.07g/5mL/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SW-2

Quant Time: Dec 09 02:21:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W120325S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 04 04:04:32 2025
 Response via : Initial Calibration

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

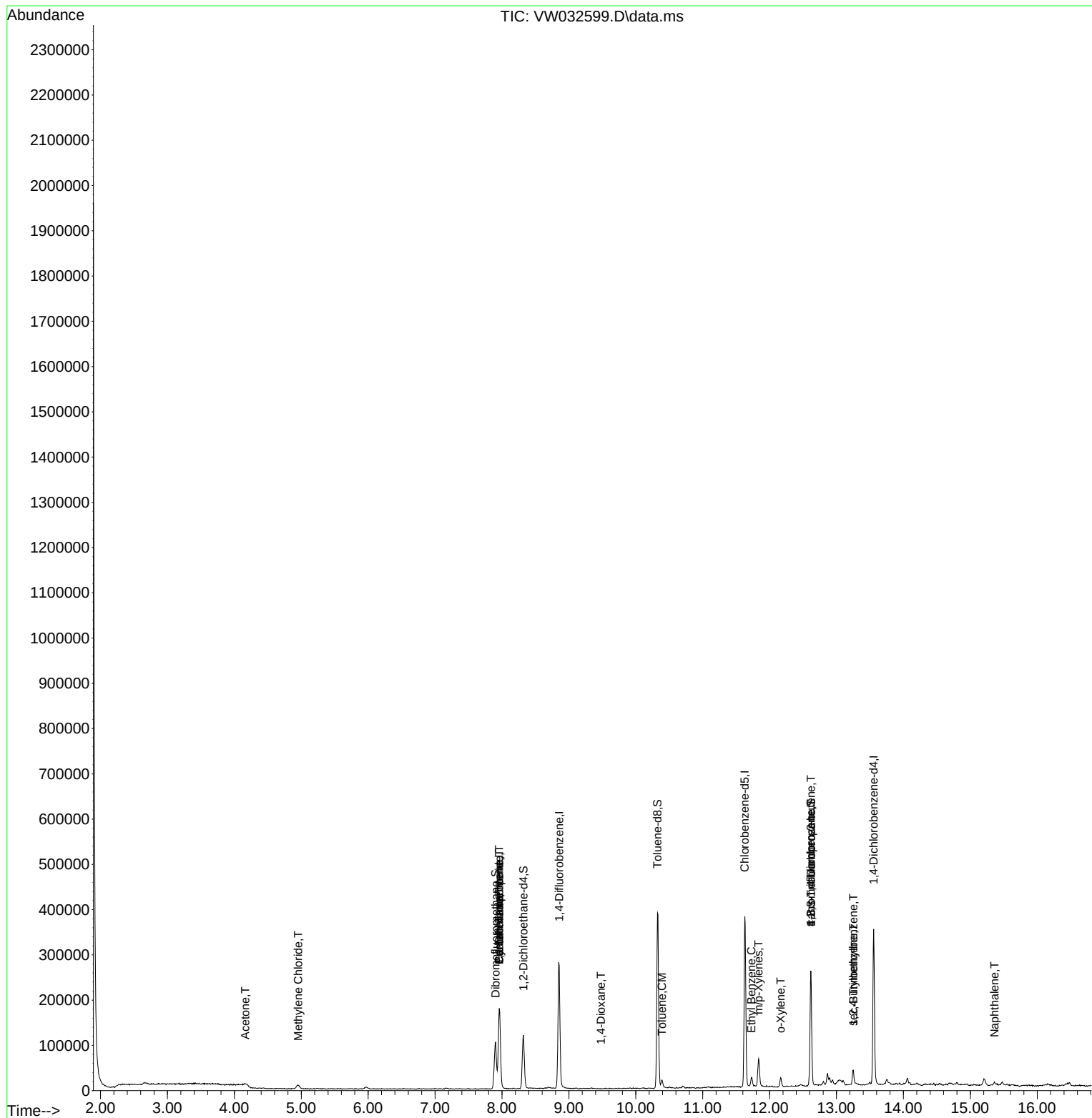
Internal Standards						
1) Pentafluorobenzene	7.959	168	120137	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	231109	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	208042	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	85744	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	96810	54.148	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery = 108.300%			
35) Dibromofluoromethane	7.904	113	75846	49.871	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery = 99.740%			
50) Toluene-d8	10.325	98	263398	46.026	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery = 92.060%			
62) 4-Bromofluorobenzene	12.617	95	91935	43.482	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery = 86.960%			
Target Compounds					Qvalue	
16) Acetone	4.161	43	6509	11.651	ug/l	97
20) Methylene Chloride	4.954	84	6310	3.158	ug/l #	85
31) Cyclohexane	7.959	56	3805	1.328	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	12071	5.204	ug/l #	50
38) Carbon Tetrachloride	7.959	117	13994	6.493	ug/l #	19
49) 1,4-Dioxane	9.477	88	63	4.966	ug/l #	9
52) Toluene	10.392	92	7493	1.682	ug/l	96
67) Ethyl Benzene	11.727	91	14074	1.687	ug/l	97
68) m/p-Xylenes	11.837	106	18632	5.873	ug/l	99
69) o-Xylene	12.166	106	5788	1.992	ug/l	96
76) 1,2,3-Trichloropropane	12.617	75	48236	41.574	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	48236	97.781	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.251	105	19012	3.507	ug/l	99
85) sec-Butylbenzene	13.251	105	19012	2.754	ug/l #	59
95) Naphthalene	15.360	128	5927	1.596	ug/l #	84

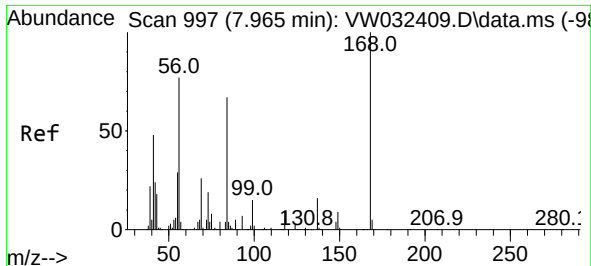
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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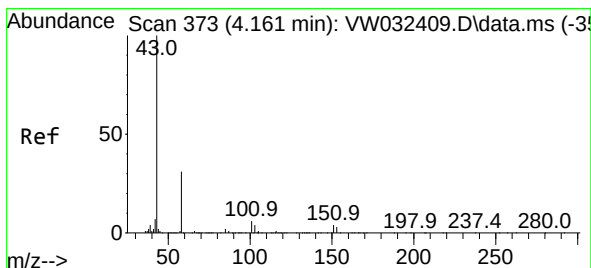
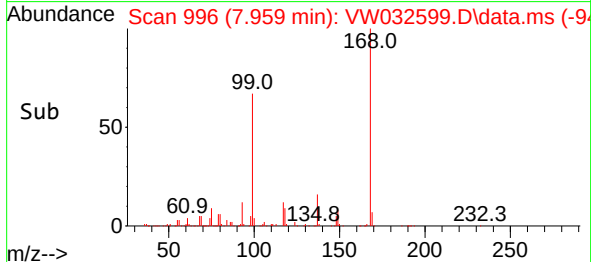
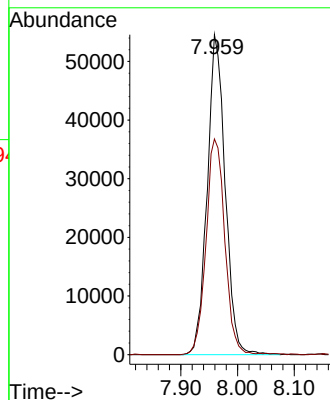
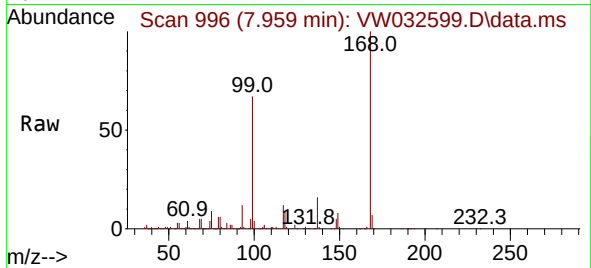




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.006 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

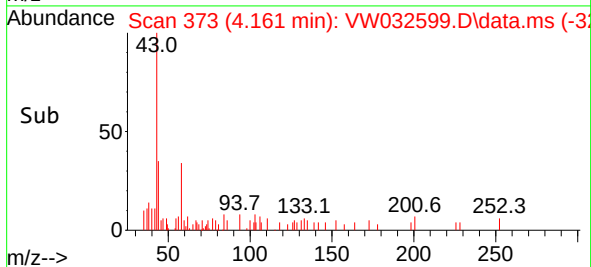
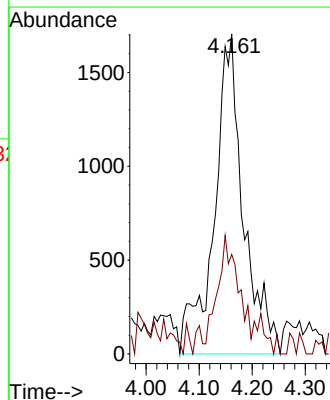
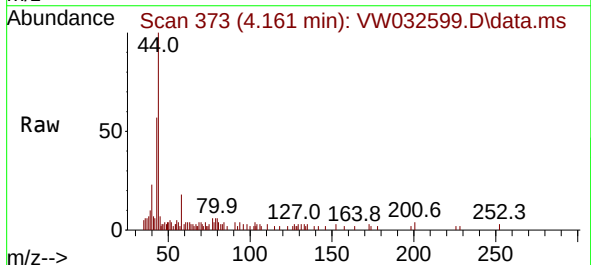
Instrument :
MSVOA_W
ClientSampleId :
SW-2

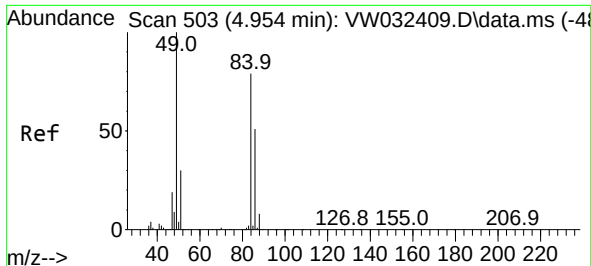
Tgt Ion:168 Resp: 120137
Ion Ratio Lower Upper
168 100
99 67.4 51.8 77.8



#16
Acetone
Concen: 11.651 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

Tgt Ion: 43 Resp: 6509
Ion Ratio Lower Upper
43 100
58 31.1 23.5 35.3

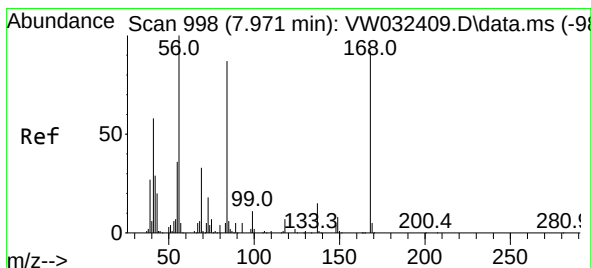
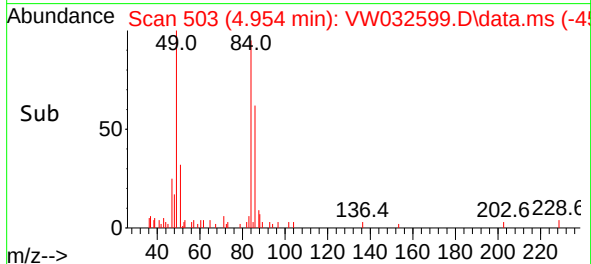
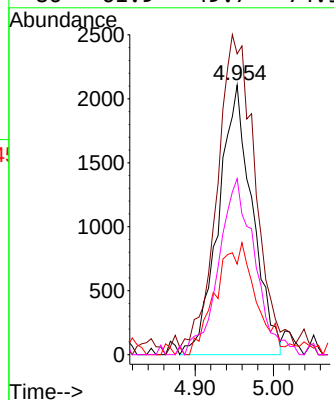
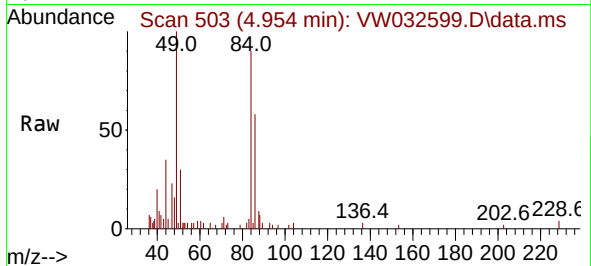




#20
Methylene Chloride
Concen: 3.158 ug/l
RT: 4.954 min Scan# 503
Delta R.T. -0.000 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

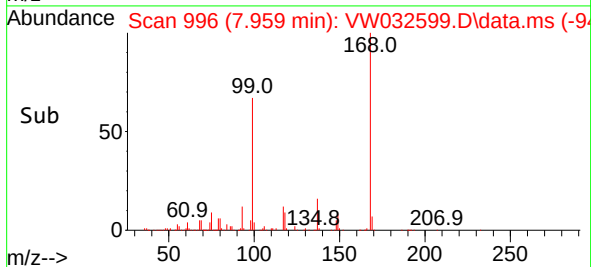
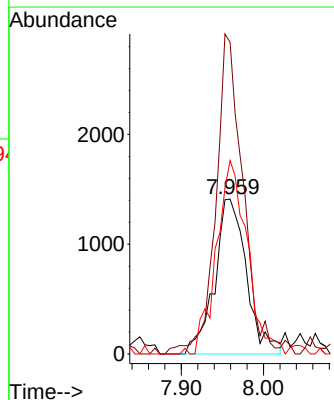
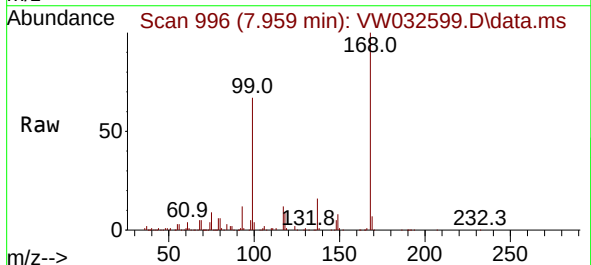
Instrument :
MSVOA_W
ClientSampleId :
SW-2

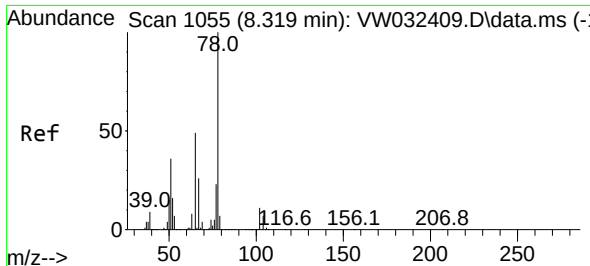
Tgt Ion:	84	Resp:	6310
Ion	Ratio	Lower	Upper
84	100		
49	109.0	107.6	161.4
51	30.8	33.9	50.9#
86	61.9	49.7	74.5



#31
Cyclohexane
Concen: 1.328 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

Tgt Ion:	56	Resp:	3805
Ion	Ratio	Lower	Upper
56	100		
69	197.2	27.3	40.9#
84	124.9	67.5	101.3#





#33

1,2-Dichloroethane-d4

Concen: 54.148 ug/l

RT: 8.319 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VW032599.D

Acq: 08 Dec 2025 16:15

Instrument :

MSVOA_W

ClientSampleId :

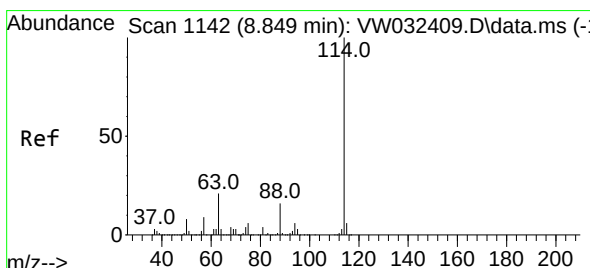
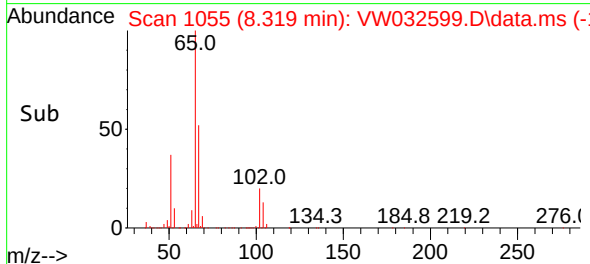
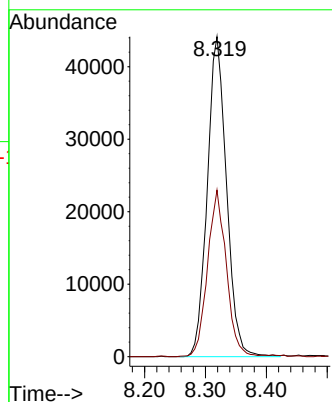
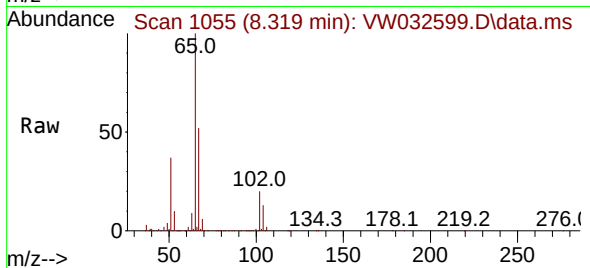
SW-2

Tgt Ion: 65 Resp: 96810

Ion Ratio Lower Upper

65 100

67 51.1 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VW032599.D

Acq: 08 Dec 2025 16:15

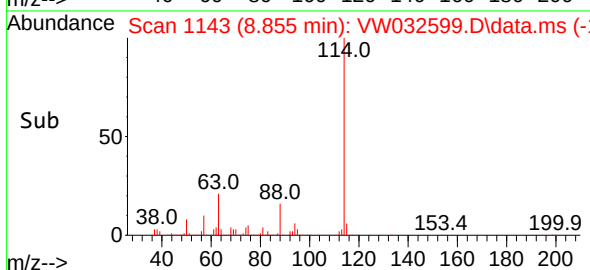
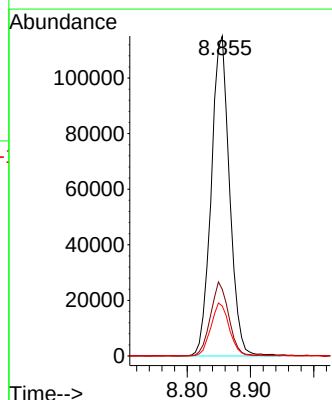
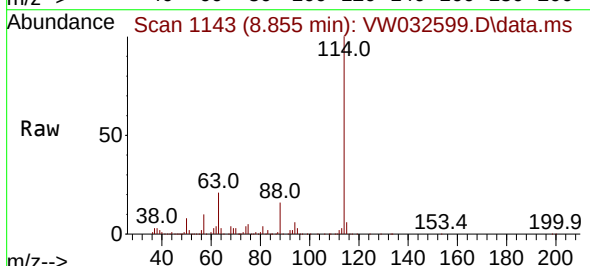
Tgt Ion: 114 Resp: 231109

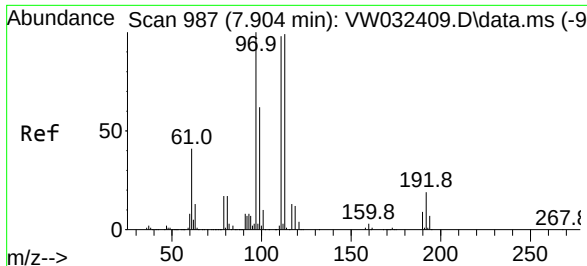
Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.6

88 15.6 0.0 31.2

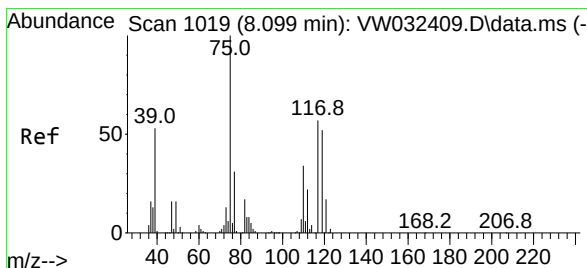
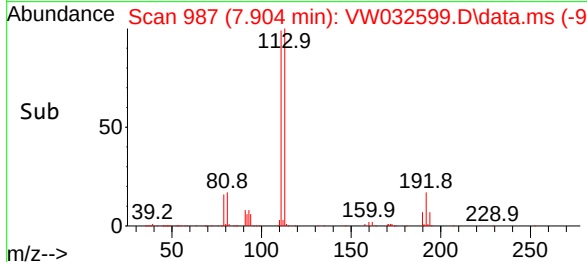
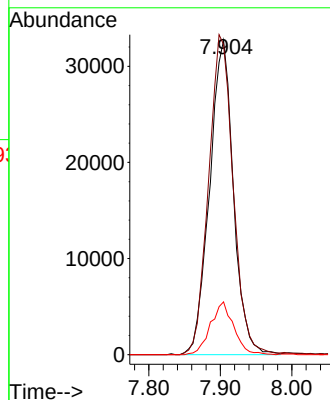
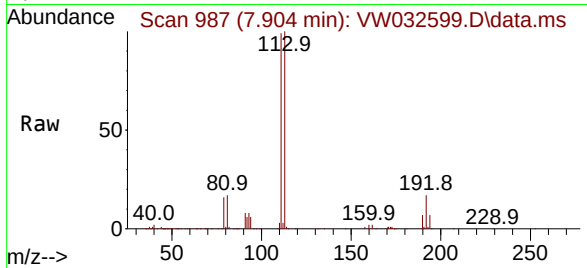




#35
Dibromofluoromethane
Concen: 49.871 ug/l
RT: 7.904 min Scan# 911
Delta R.T. -0.000 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

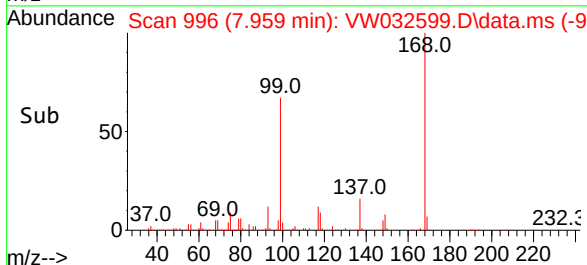
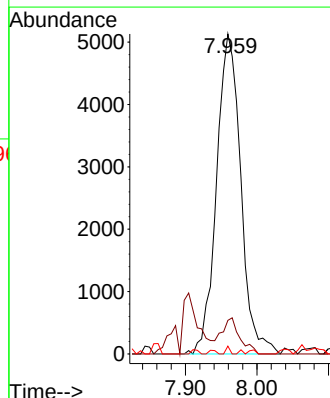
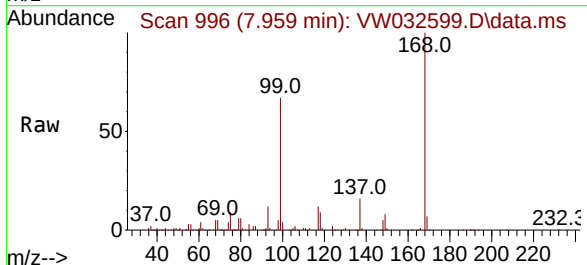
Instrument :
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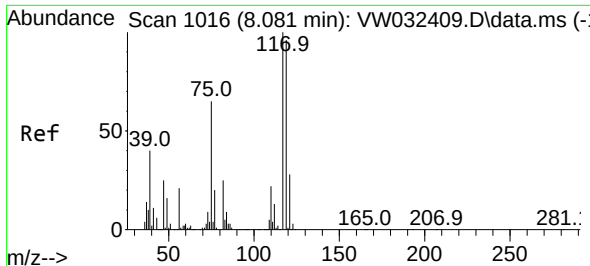
Tgt Ion:113 Resp: 75846
Ion Ratio Lower Upper
113 100
111 104.5 83.4 125.0
192 16.3 13.4 20.2



#36
1,1-Dichloropropene
Concen: 5.204 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.134 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

Tgt Ion: 75 Resp: 12071
Ion Ratio Lower Upper
75 100
110 8.4 16.9 50.6#
77 0.4 24.6 37.0#

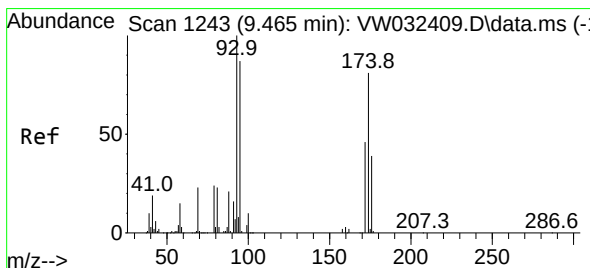
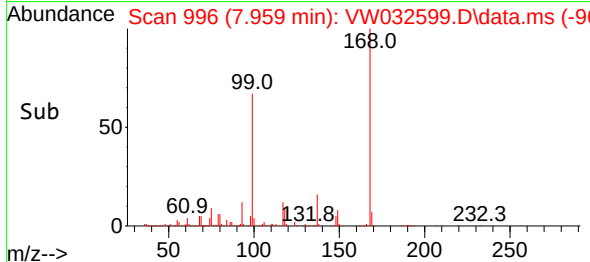
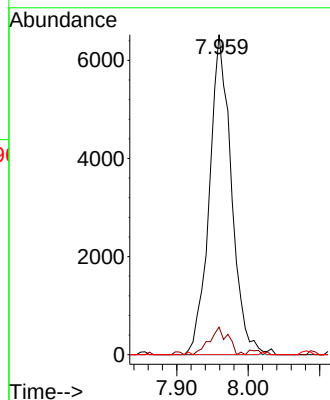
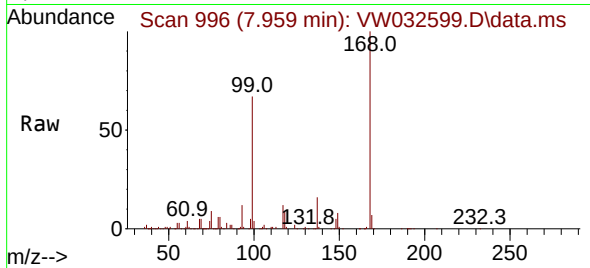




#38
Carbon Tetrachloride
Concen: 6.493 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.122 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

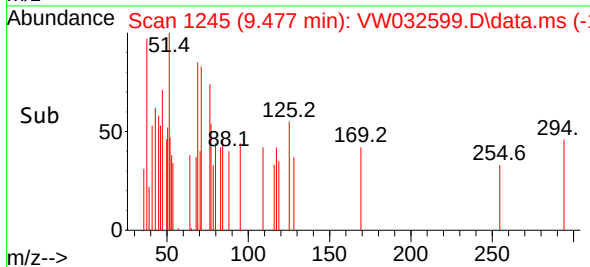
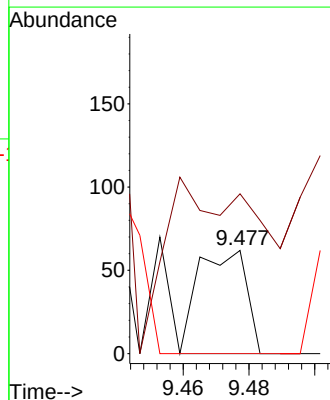
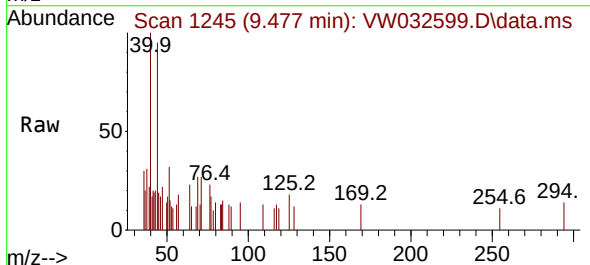
Instrument :
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ClientSampleId :
SW-2

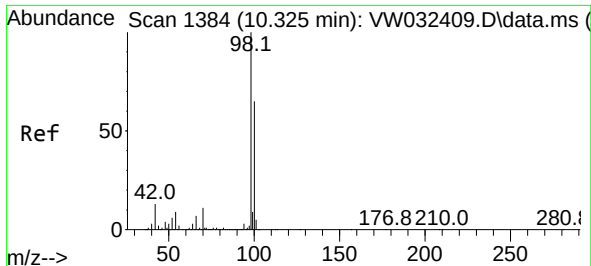
Tgt Ion:117 Resp: 13994
Ion Ratio Lower Upper
117 100
119 8.6 76.9 115.3#
121 0.0 25.4 38.2#



#49
1,4-Dioxane
Concen: 4.966 ug/l
RT: 9.477 min Scan# 1245
Delta R.T. 0.018 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 215.9 0.0 0.0#
58 0.0 65.2 97.8#

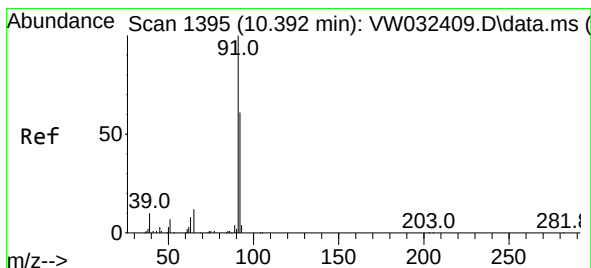
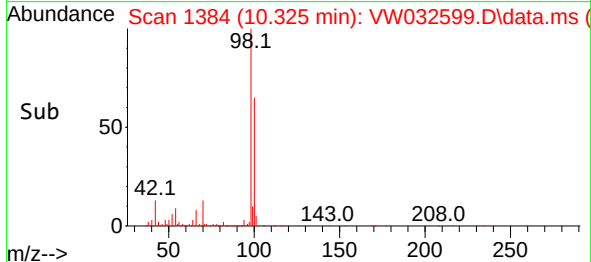
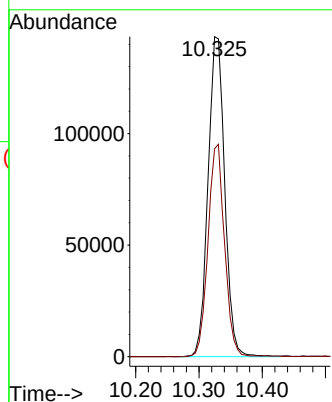
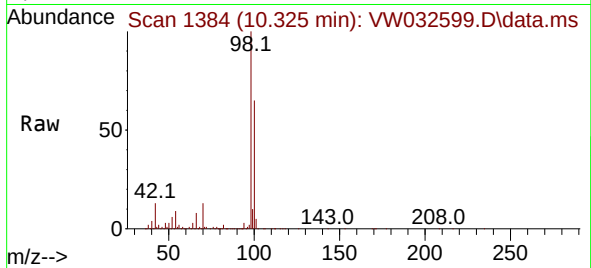




#50
Toluene-d8
Concen: 46.026 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

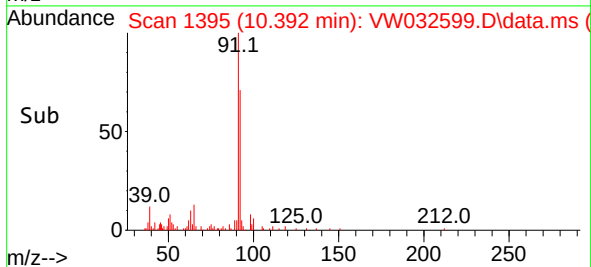
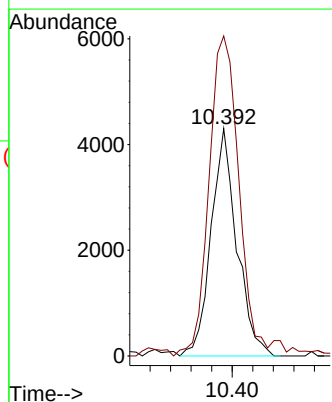
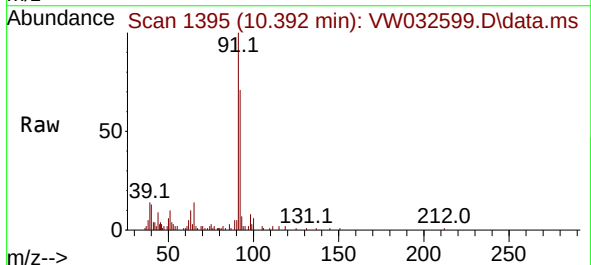
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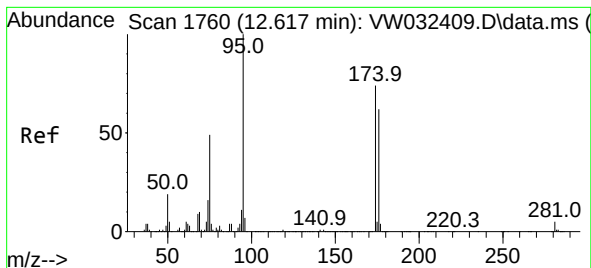
Tgt Ion: 98 Resp: 263398
Ion Ratio Lower Upper
98 100
100 65.9 54.7 82.1



#52
Toluene
Concen: 1.682 ug/l
RT: 10.392 min Scan# 1395
Delta R.T. -0.000 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

Tgt Ion: 92 Resp: 7493
Ion Ratio Lower Upper
92 100
91 167.9 138.6 207.8

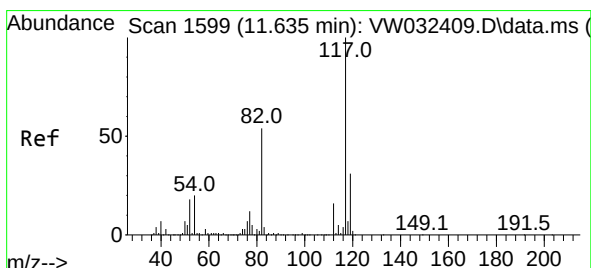
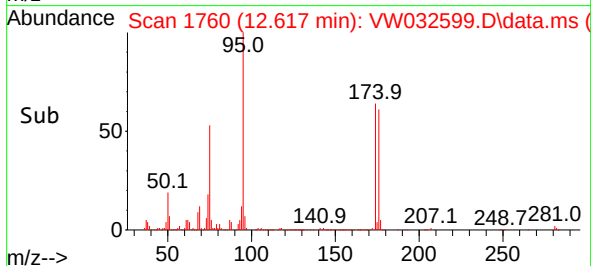
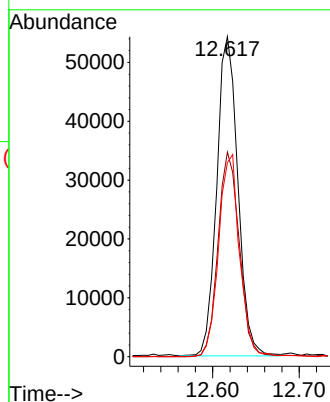
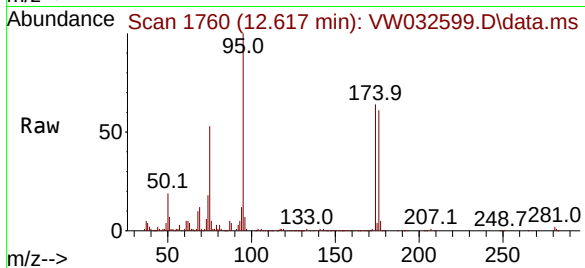




#62
4-Bromofluorobenzene
Concen: 43.482 ug/l
RT: 12.617 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

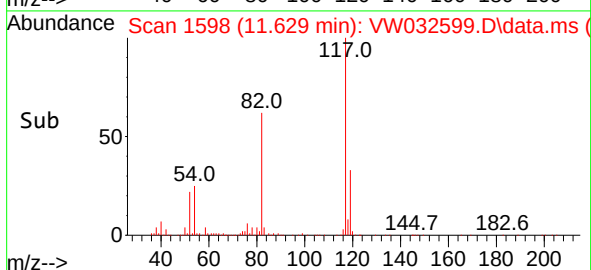
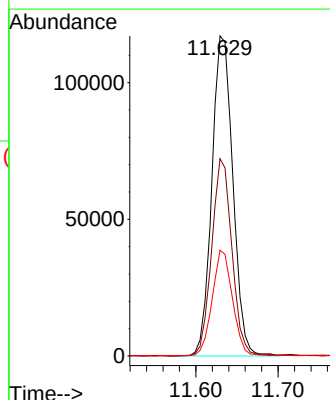
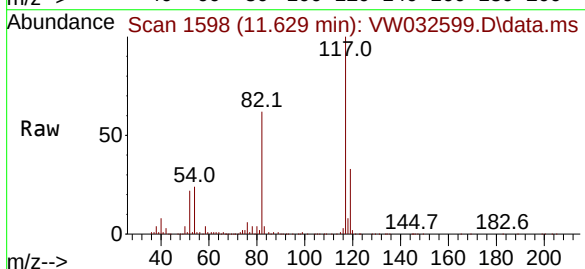
Instrument :
MSVOA_W
ClientSampleId :
SW-2

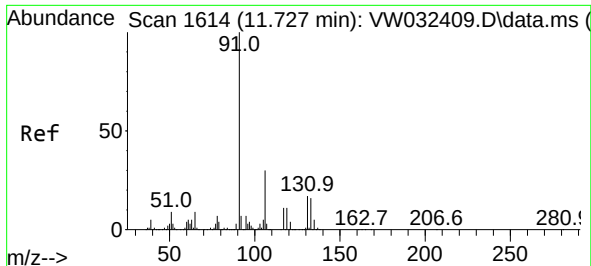
Tgt Ion: 95 Resp: 91935
Ion Ratio Lower Upper
95 100
174 65.2 0.0 141.2
176 62.9 0.0 130.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

Tgt Ion: 117 Resp: 208042
Ion Ratio Lower Upper
117 100
82 61.6 45.9 68.9
119 32.9 26.3 39.5





#67

Ethyl Benzene

Concen: 1.687 ug/l

RT: 11.727 min Scan# 1614

Delta R.T. -0.006 min

Lab File: VW032599.D

Acq: 08 Dec 2025 16:15

Instrument :

MSVOA_W

ClientSampleId :

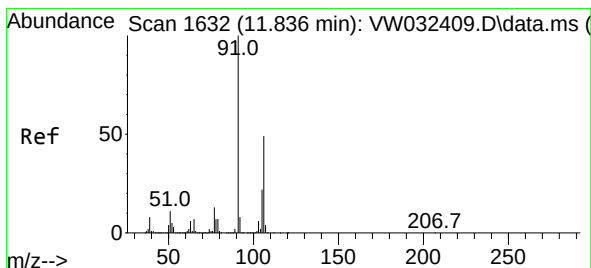
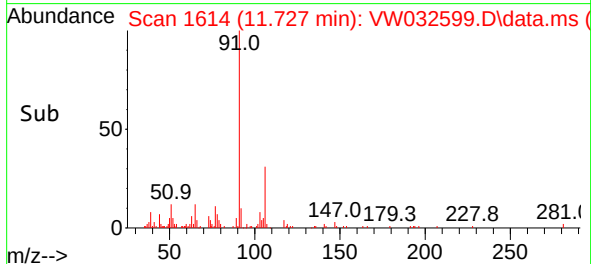
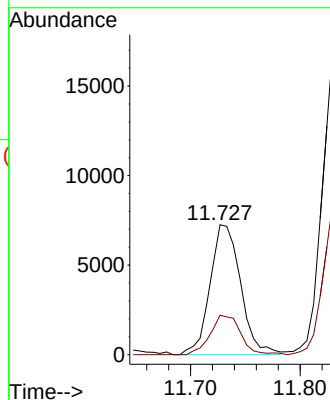
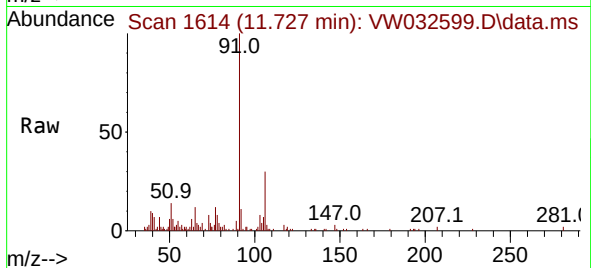
SW-2

Tgt Ion: 91 Resp: 14074

Ion Ratio Lower Upper

91 100

106 30.4 23.0 34.6



#68

m/p-Xylenes

Concen: 5.873 ug/l

RT: 11.837 min Scan# 1632

Delta R.T. -0.000 min

Lab File: VW032599.D

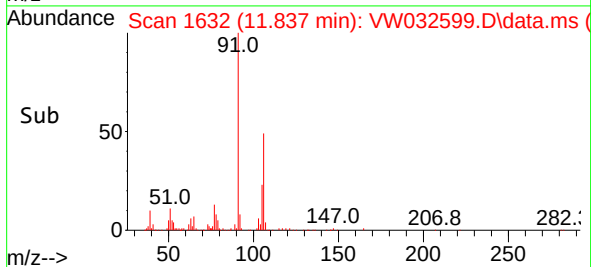
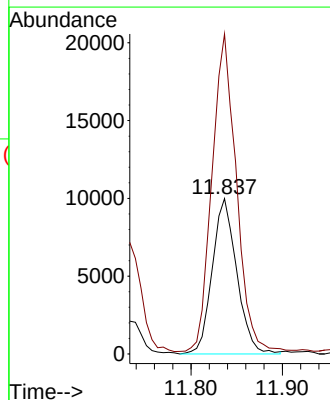
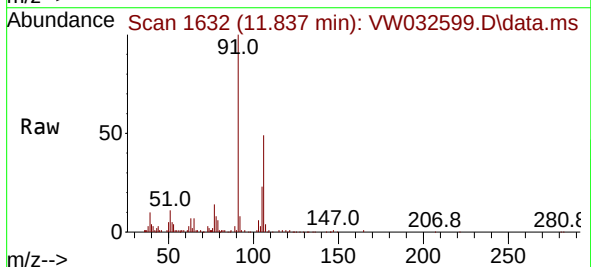
Acq: 08 Dec 2025 16:15

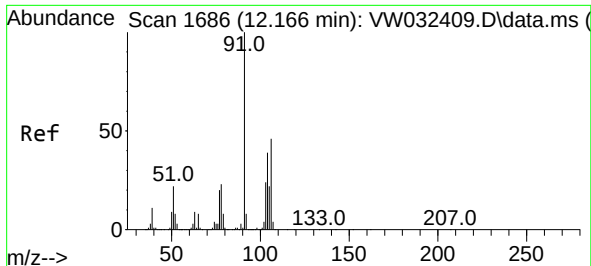
Tgt Ion: 106 Resp: 18632

Ion Ratio Lower Upper

106 100

91 202.7 163.3 244.9

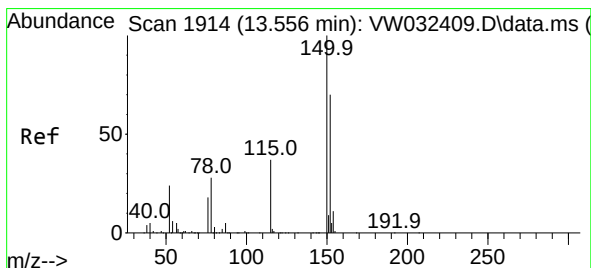
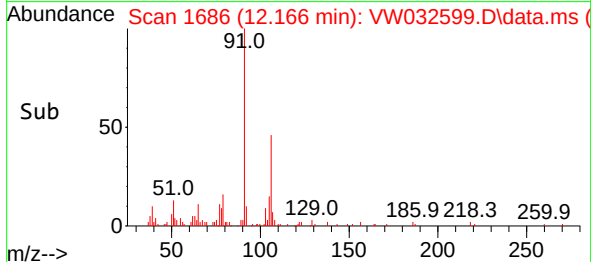
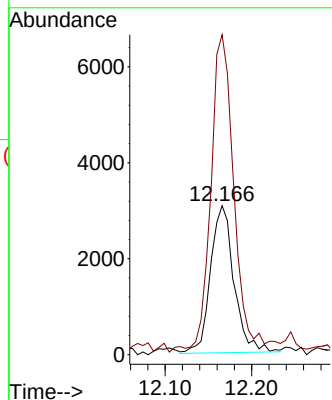
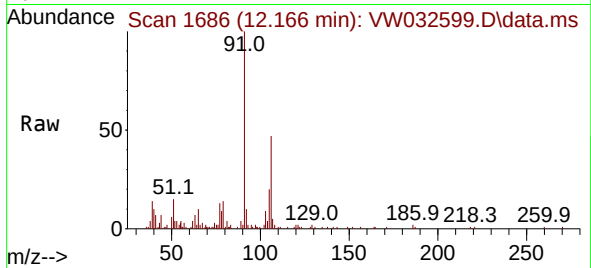




#69
o-Xylene
Concen: 1.992 ug/l
RT: 12.166 min Scan# 1
Delta R.T. -0.000 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

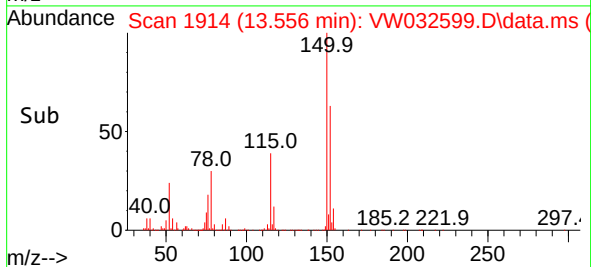
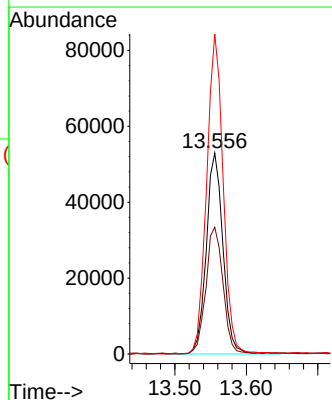
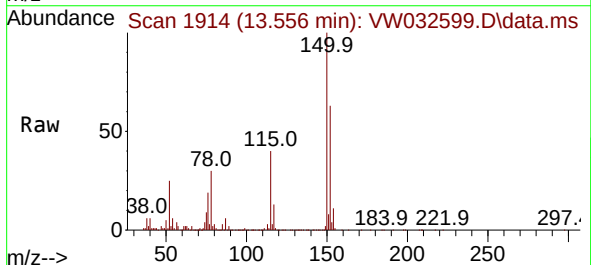
Instrument :
MSVOA_W
ClientSampleId :
SW-2

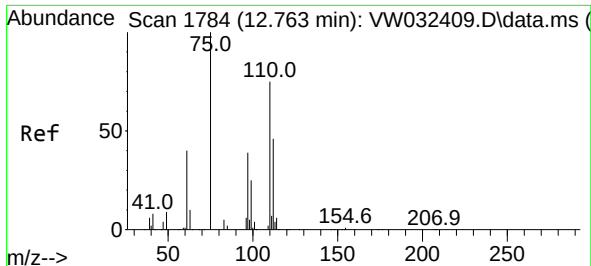
Tgt Ion:106 Resp: 5788
Ion Ratio Lower Upper
106 100
91 214.3 104.1 312.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

Tgt Ion:152 Resp: 85744
Ion Ratio Lower Upper
152 100
115 64.6 31.1 93.3
150 157.4 0.0 351.2

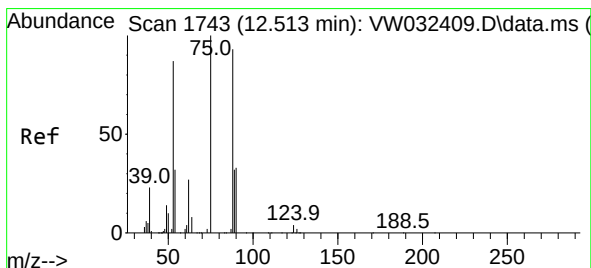
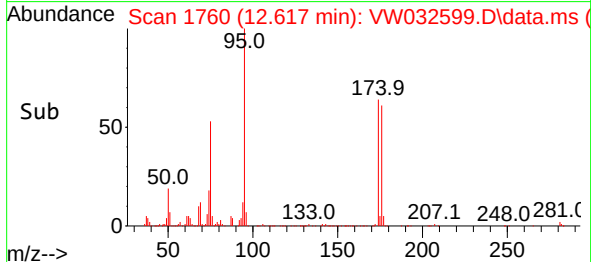
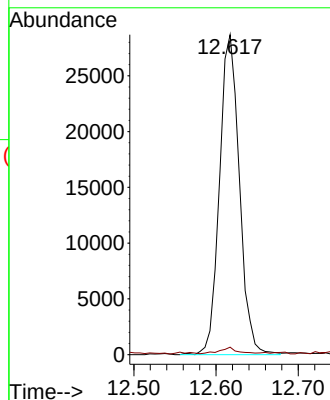
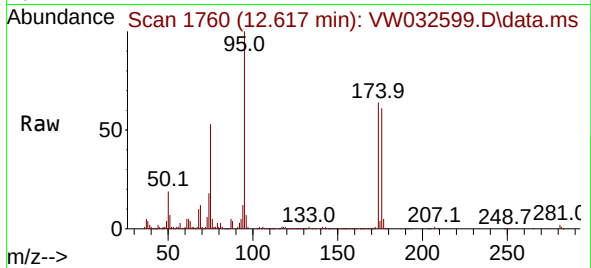




#76
1,2,3-Trichloropropane
Concen: 41.574 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

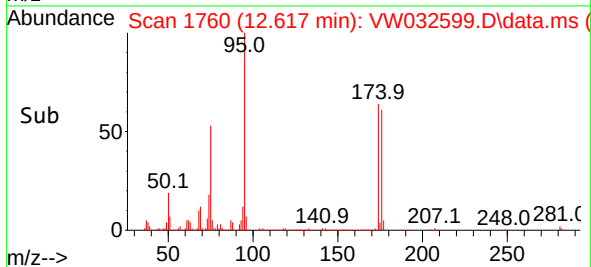
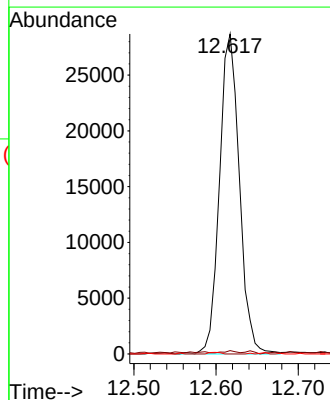
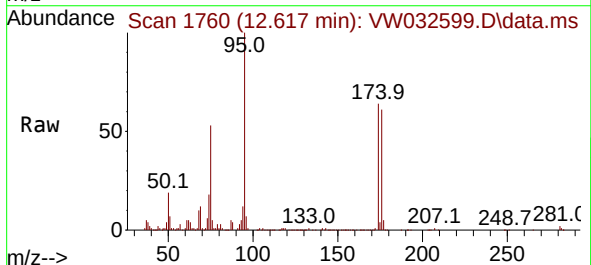
Instrument :
MSVOA_W
ClientSampleId :
SW-2

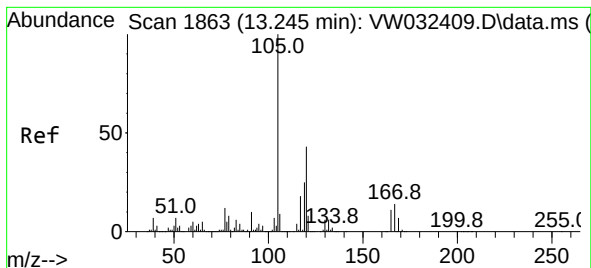
Tgt Ion: 75 Resp: 48236
Ion Ratio Lower Upper
75 100
77 1.8 148.2 444.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 97.781 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

Tgt Ion: 75 Resp: 48236
Ion Ratio Lower Upper
75 100
53 0.4 80.8 121.2#
89 0.0 31.4 47.2#





#84

1,2,4-Trimethylbenzene

Concen: 3.507 ug/l

RT: 13.251 min Scan# 1864

Delta R.T. 0.006 min

Lab File: VW032599.D

Acq: 08 Dec 2025 16:15

Instrument :

MSVOA_W

ClientSampleId :

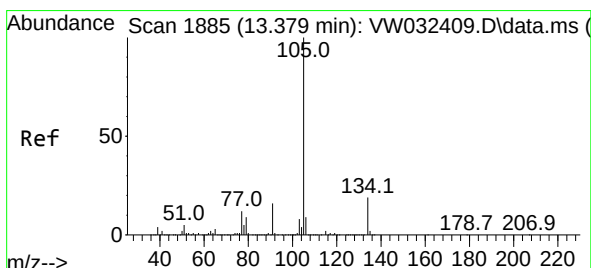
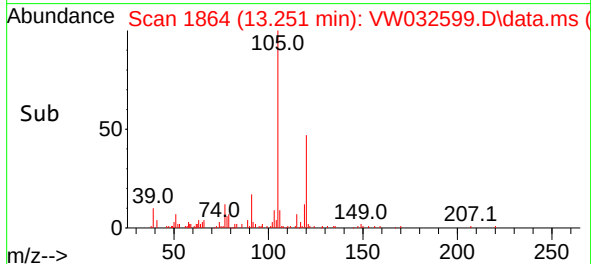
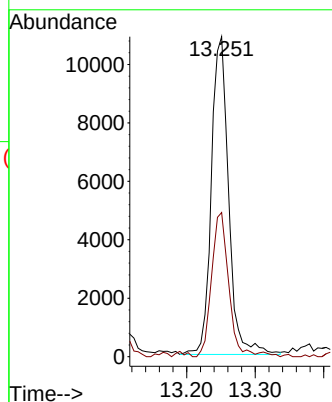
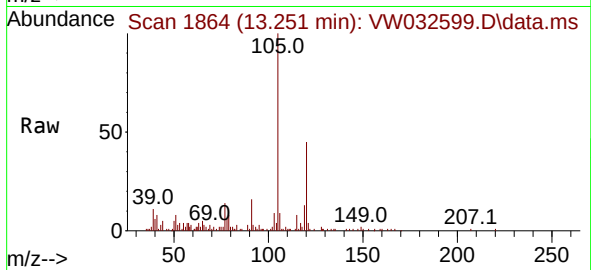
SW-2

Tgt Ion:105 Resp: 19012

Ion Ratio Lower Upper

105 100

120 44.4 22.7 68.1



#85

sec-Butylbenzene

Concen: 2.754 ug/l

RT: 13.251 min Scan# 1864

Delta R.T. -0.128 min

Lab File: VW032599.D

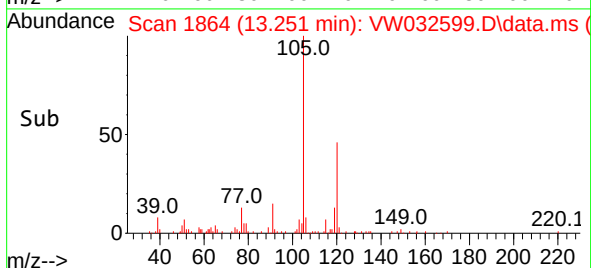
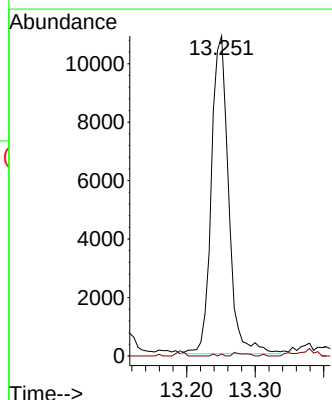
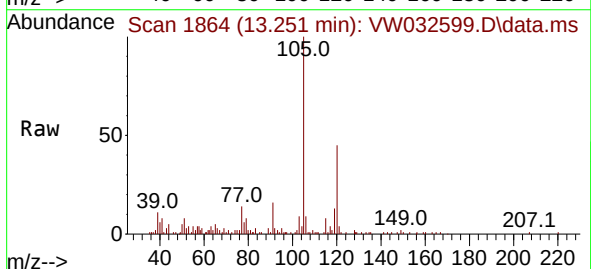
Acq: 08 Dec 2025 16:15

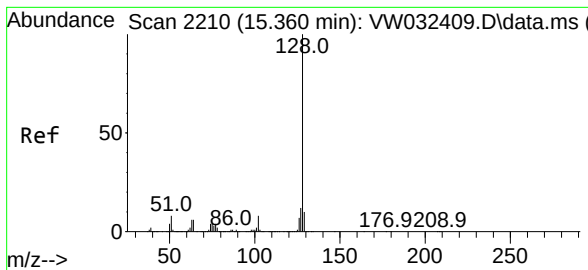
Tgt Ion:105 Resp: 19012

Ion Ratio Lower Upper

105 100

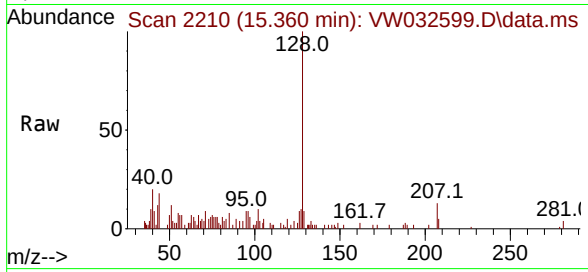
134 0.2 9.4 28.3#





#95
Naphthalene
Concen: 1.596 ug/l
RT: 15.360 min Scan# 21
Delta R.T. -0.000 min
Lab File: VW032599.D
Acq: 08 Dec 2025 16:15

Instrument :
MSVOA_W
ClientSampleId :
SW-2



Tgt Ion:	128	Resp:	5927
Ion	Ratio	Lower	Upper
128	100		
127	17.1	10.6	15.8#
129	19.9	8.9	13.3#

