

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW071025\
 Data File : VW031813.D
 Acq On : 10 Jul 2025 18:53
 Operator : SY/MD
 Sample : Q2558-01
 Misc : 4.84g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OU4-TS-Denali-070925

Quant Time: Jul 11 02:26:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W063025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 01 03:35:17 2025
 Response via : Initial Calibration

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

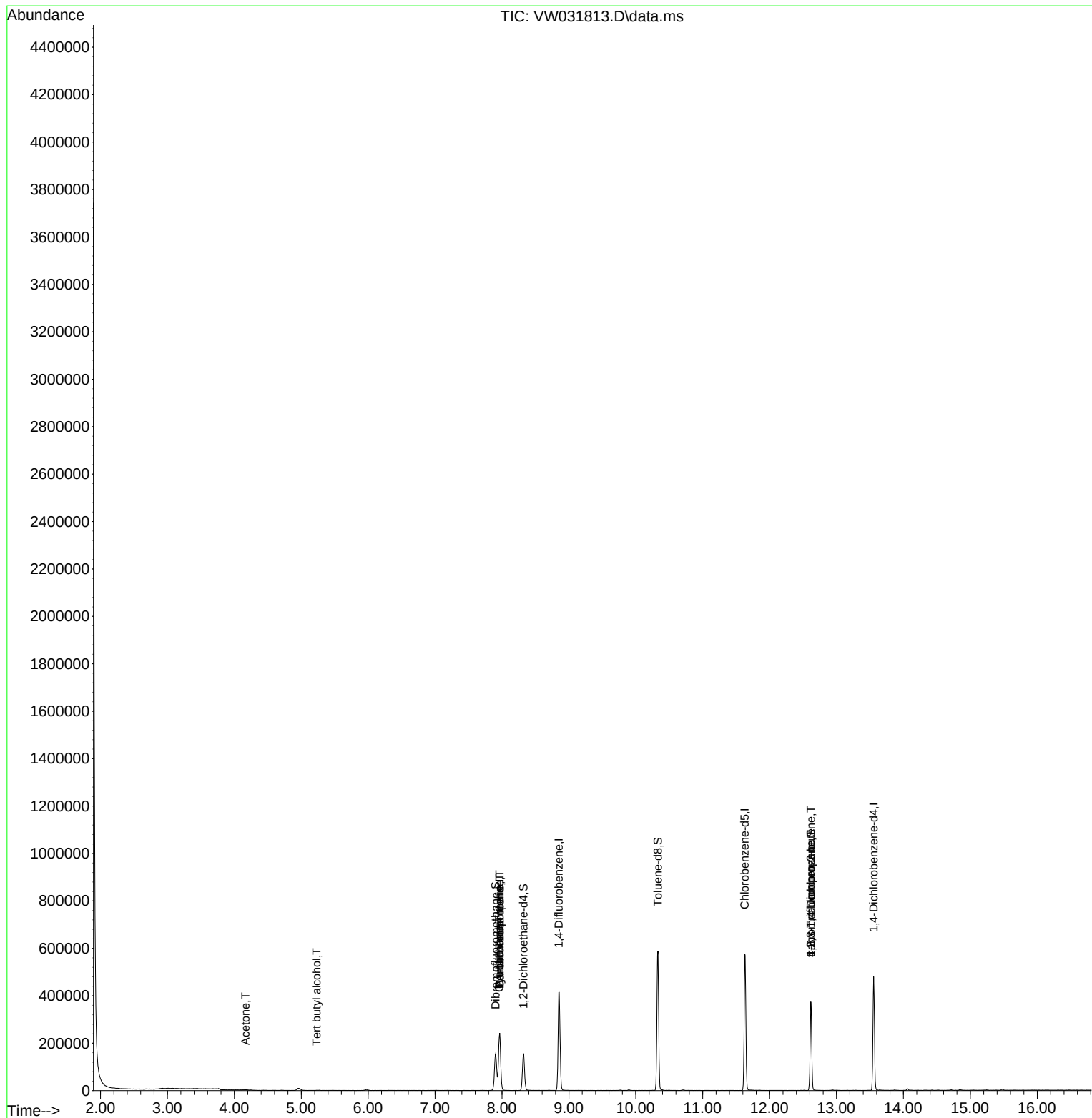
Internal Standards						
1) Pentafluorobenzene	7.965	168	163572	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	353977	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	311203	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.555	152	115898	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	131087	55.842	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	111.680%
35) Dibromofluoromethane	7.904	113	112062	48.515	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	97.020%
50) Toluene-d8	10.330	98	389564	45.320	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	90.640%
62) 4-Bromofluorobenzene	12.617	95	128810	40.720	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	81.440%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.228	59	183	1.258	ug/l #	69
16) Acetone	4.167	43	2702	4.657	ug/l	91
20) Methylene Chloride	4.965	84	7914	Below Cal		95
31) Cyclohexane	7.959	56	4585	1.372	ug/l #	1
36) 1,1-Dichloropropene	7.965	75	15920	4.763	ug/l #	51
38) Carbon Tetrachloride	7.965	117	19375	5.688	ug/l #	18
76) 1,2,3-Trichloropropane	12.617	75	68149	45.502	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	68149	105.980	ug/l #	8

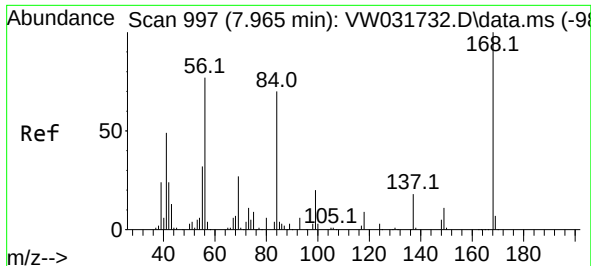
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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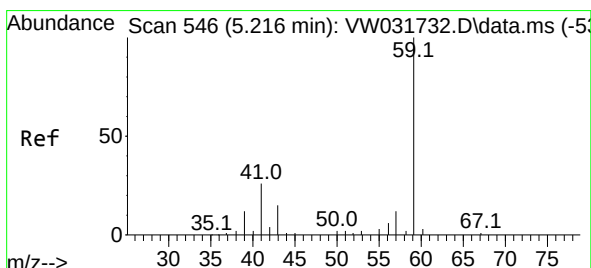
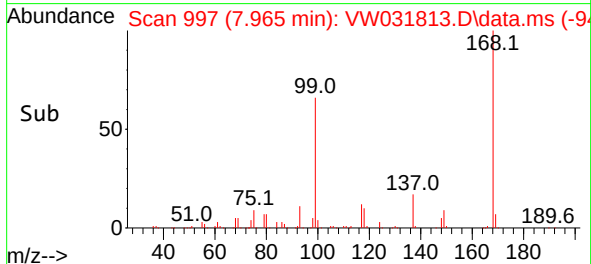
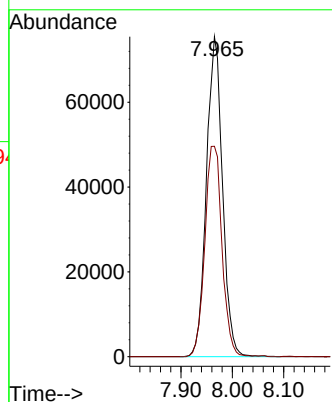
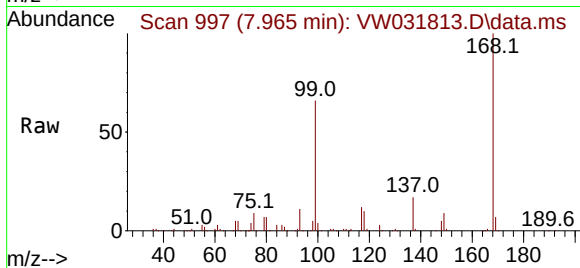




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.000 min
Lab File: VW031813.D
Acq: 10 Jul 2025 18:53

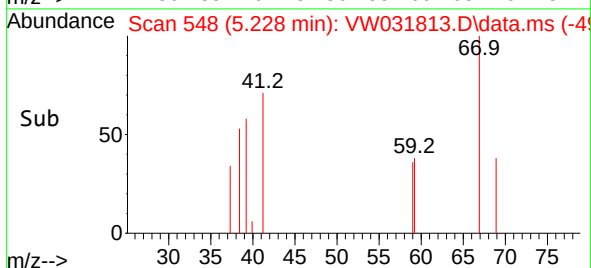
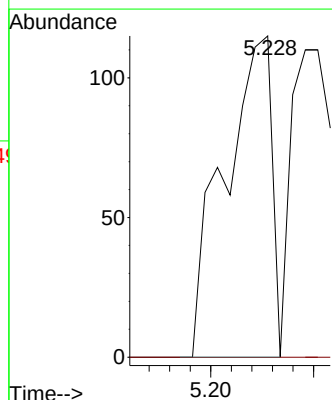
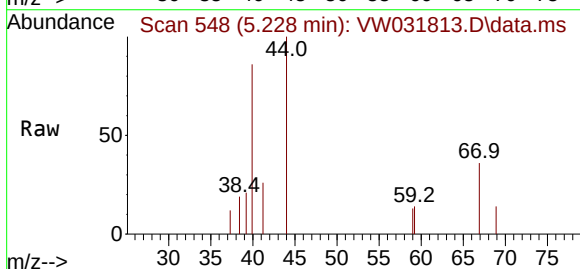
Instrument :
MSVOA_W
ClientSampleId :
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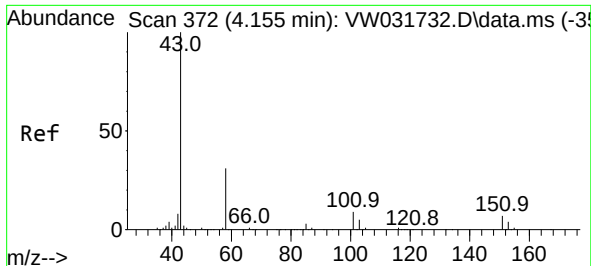
Tgt Ion:168 Resp: 163572
Ion Ratio Lower Upper
168 100
99 65.8 49.4 74.2



#11
Tert butyl alcohol
Concen: 1.258 ug/l
RT: 5.228 min Scan# 548
Delta R.T. 0.012 min
Lab File: VW031813.D
Acq: 10 Jul 2025 18:53

Tgt Ion: 59 Resp: 183
Ion Ratio Lower Upper
59 100
57 0.0 9.5 14.3#

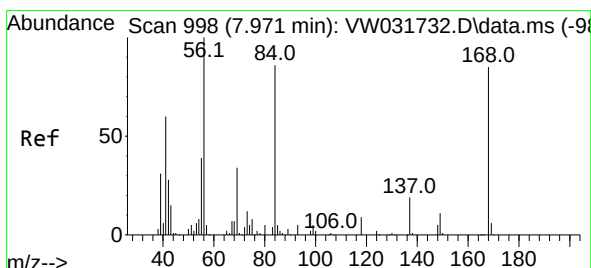
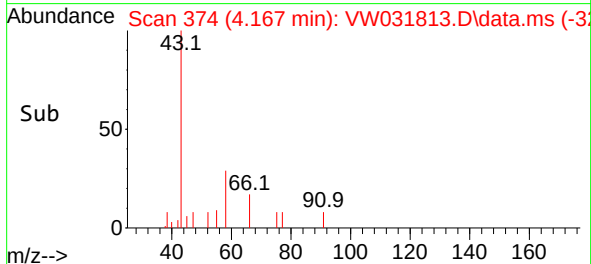
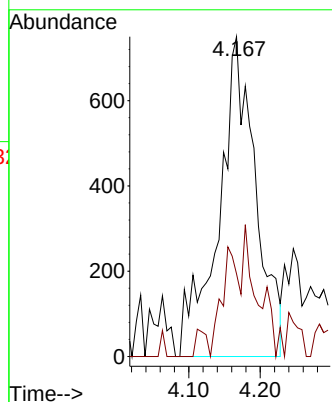
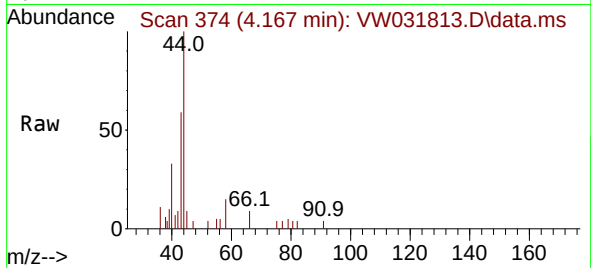




#16
Acetone
Concen: 4.657 ug/l
RT: 4.167 min Scan# 31
Delta R.T. 0.012 min
Lab File: VW031813.D
Acq: 10 Jul 2025 18:53

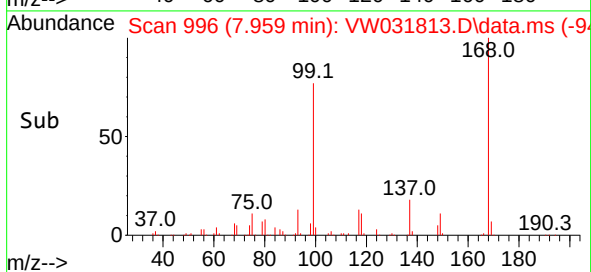
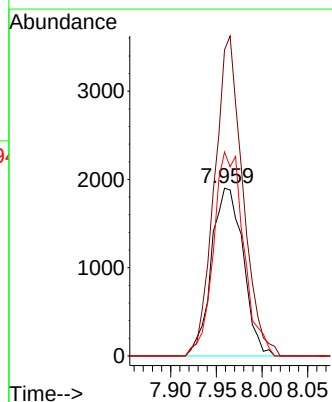
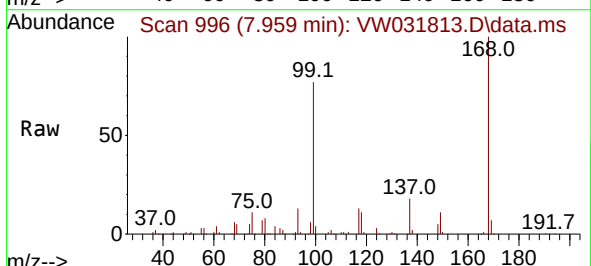
Instrument :
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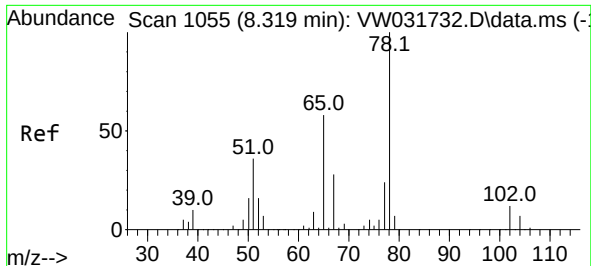
Tgt Ion: 43 Resp: 2702
Ion Ratio Lower Upper
43 100
58 25.9 24.8 37.2



#31
Cyclohexane
Concen: 1.372 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW031813.D
Acq: 10 Jul 2025 18:53

Tgt Ion: 56 Resp: 4585
Ion Ratio Lower Upper
56 100
69 182.6 27.2 40.8#
84 121.6 68.5 102.7#

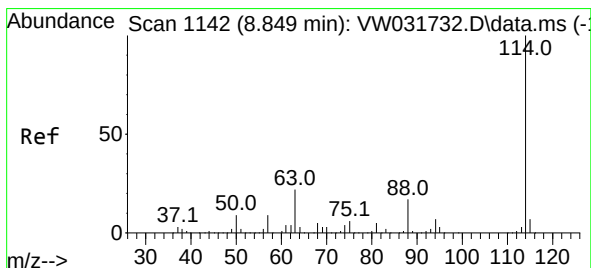
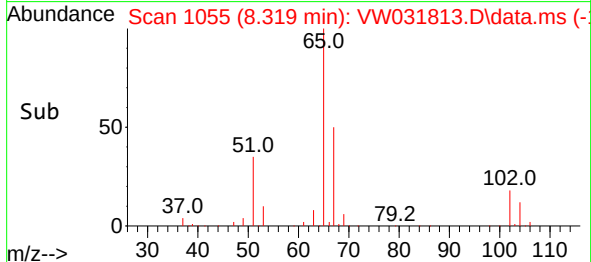
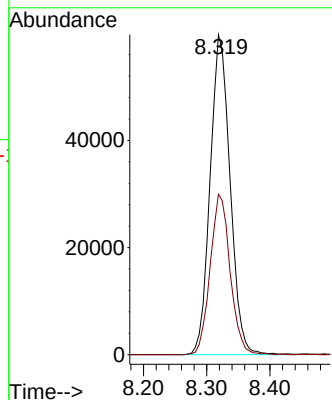
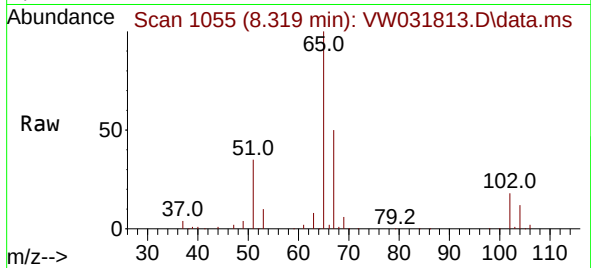




#33
1,2-Dichloroethane-d4
Concen: 55.842 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW031813.D
Acq: 10 Jul 2025 18:53

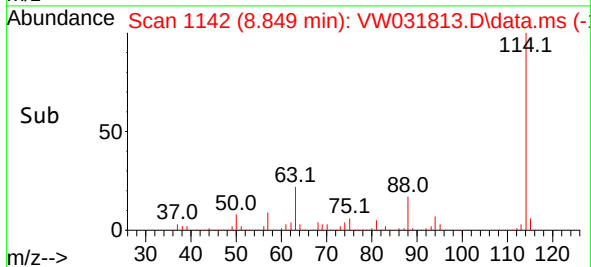
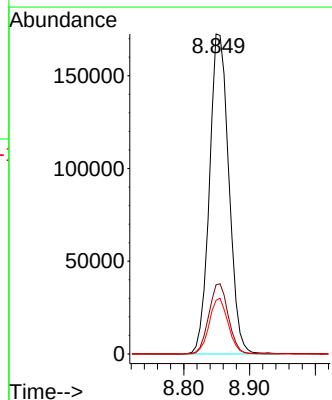
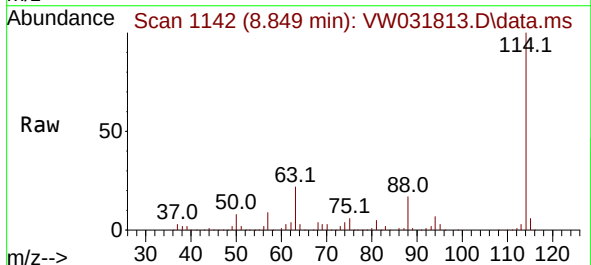
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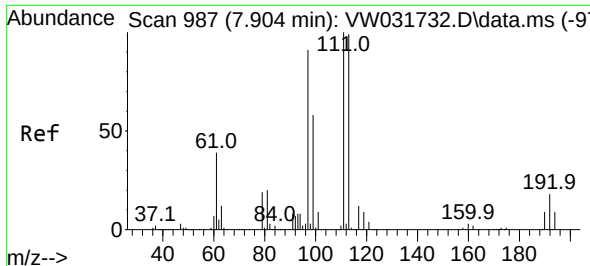
Tgt Ion: 65 Resp: 131087
Ion Ratio Lower Upper
65 100
67 50.1 0.0 99.4



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.000 min
Lab File: VW031813.D
Acq: 10 Jul 2025 18:53

Tgt Ion: 114 Resp: 353977
Ion Ratio Lower Upper
114 100
63 21.6 0.0 43.6
88 16.8 0.0 34.2

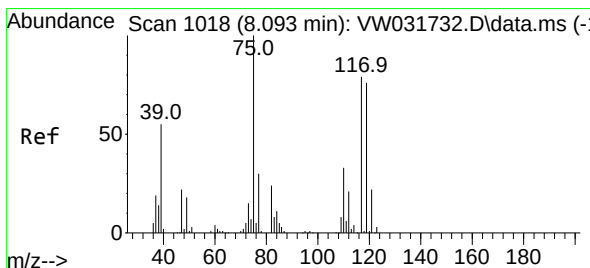
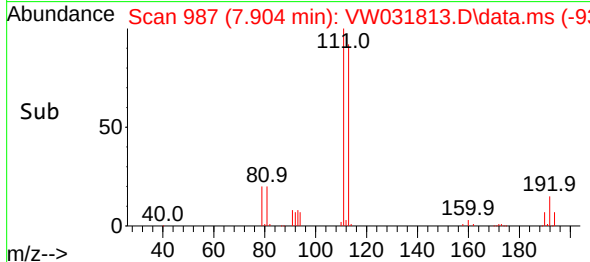
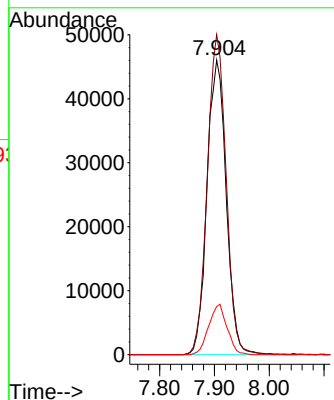
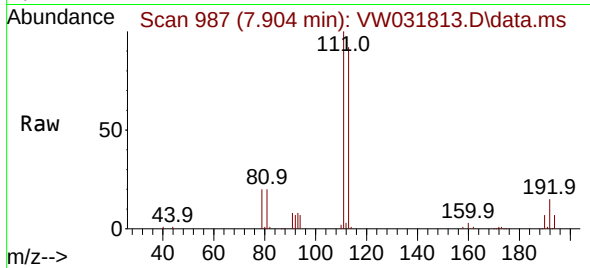




#35
 Dibromofluoromethane
 Concen: 48.515 ug/l
 RT: 7.904 min Scan# 997
 Delta R.T. -0.000 min
 Lab File: VW031813.D
 Acq: 10 Jul 2025 18:53

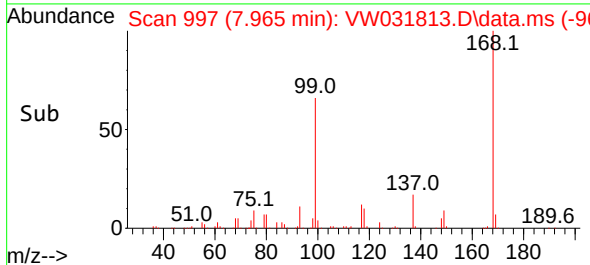
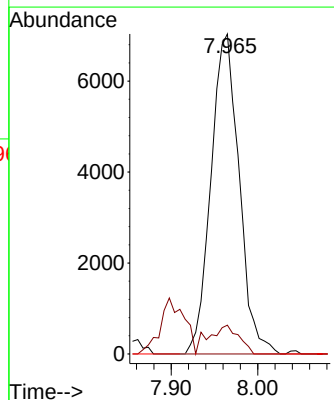
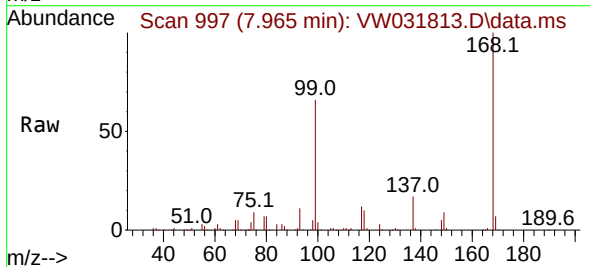
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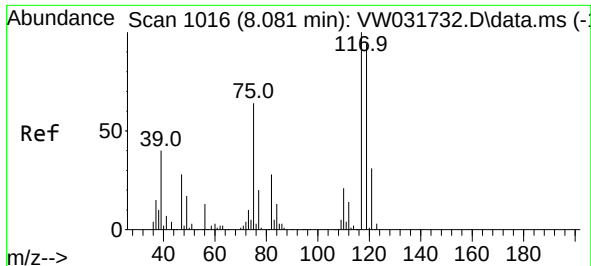
Tgt Ion:	113	Resp:	112062
Ion	Ratio	Lower	Upper
113	100		
111	106.2	82.1	123.1
192	16.3	13.8	20.6



#36
 1,1-Dichloropropene
 Concen: 4.763 ug/l
 RT: 7.965 min Scan# 997
 Delta R.T. -0.128 min
 Lab File: VW031813.D
 Acq: 10 Jul 2025 18:53

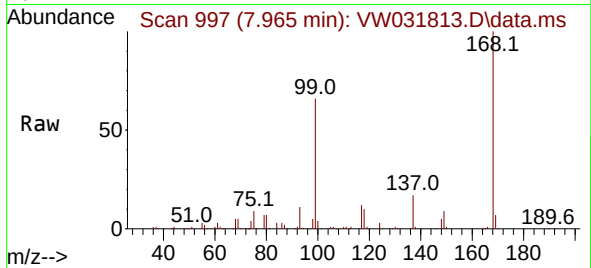
Tgt Ion:	75	Resp:	15920
Ion	Ratio	Lower	Upper
75	100		
110	9.5	16.8	50.4#
77	0.0	25.0	37.6#



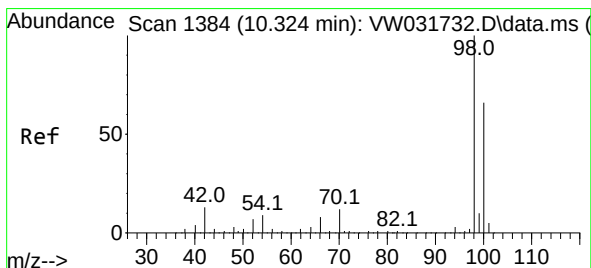
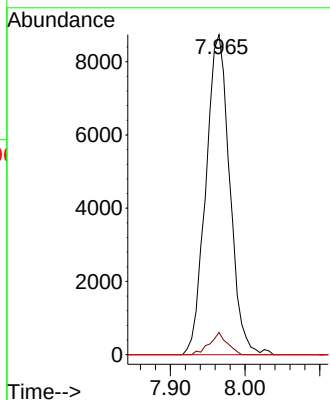
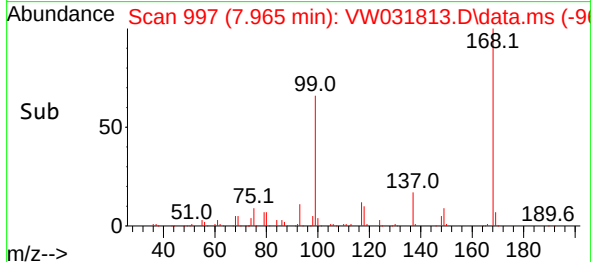


#38
Carbon Tetrachloride
Concen: 5.688 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.116 min
Lab File: VW031813.D
Acq: 10 Jul 2025 18:53

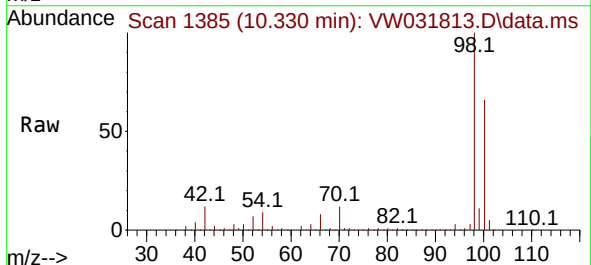
Instrument :
MSVOA_W
ClientSampleId :
OU4-TS-Denali-070925



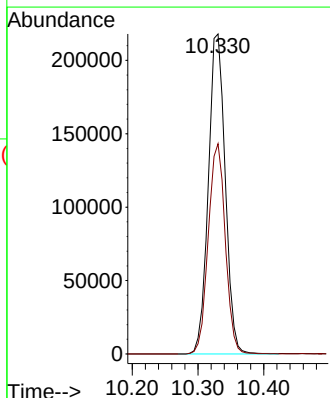
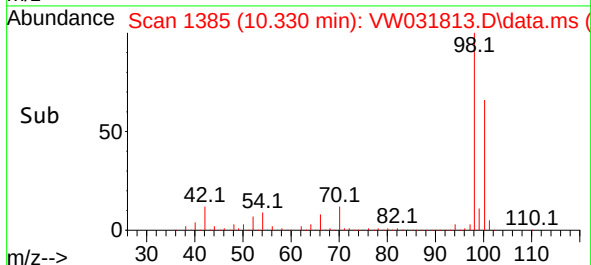
Tgt Ion:117 Resp: 19375
Ion Ratio Lower Upper
117 100
119 7.0 75.0 112.6#
121 0.0 24.6 37.0#

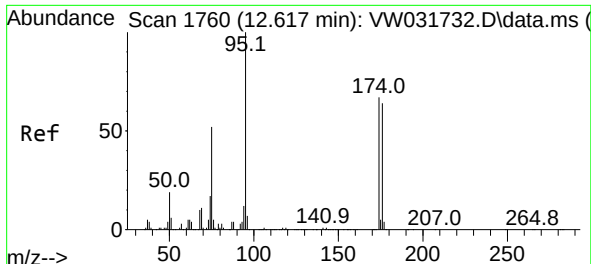


#50
Toluene-d8
Concen: 45.320 ug/l
RT: 10.330 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW031813.D
Acq: 10 Jul 2025 18:53



Tgt Ion: 98 Resp: 389564
Ion Ratio Lower Upper
98 100
100 66.3 53.0 79.4

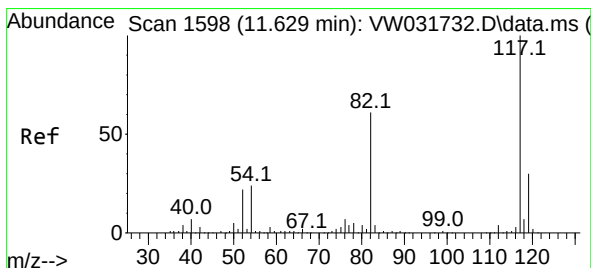
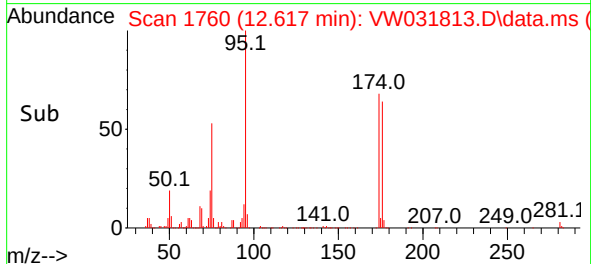
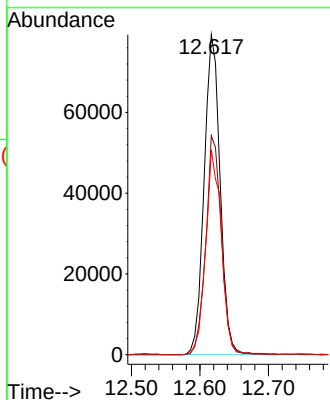
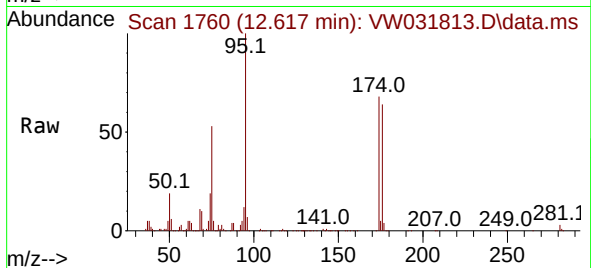




#62
4-Bromofluorobenzene
Concen: 40.720 ug/l
RT: 12.617 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW031813.D
Acq: 10 Jul 2025 18:53

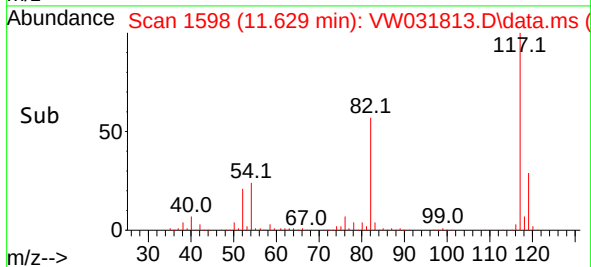
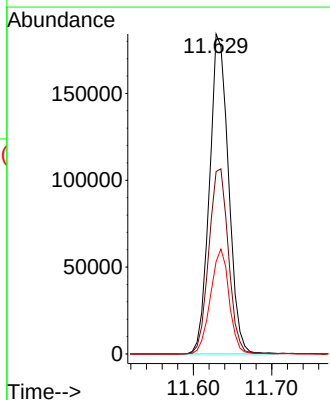
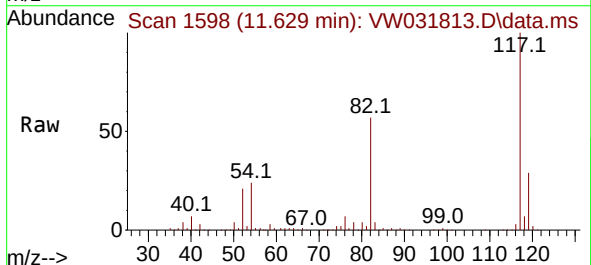
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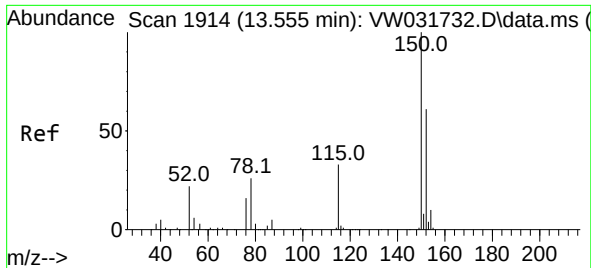
Tgt Ion: 95 Resp: 128810
Ion Ratio Lower Upper
95 100
174 66.7 0.0 133.8
176 63.3 0.0 126.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.000 min
Lab File: VW031813.D
Acq: 10 Jul 2025 18:53

Tgt Ion: 117 Resp: 311203
Ion Ratio Lower Upper
117 100
82 57.0 48.6 72.8
119 28.9 23.9 35.9

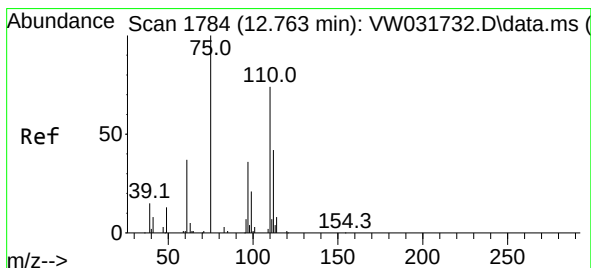
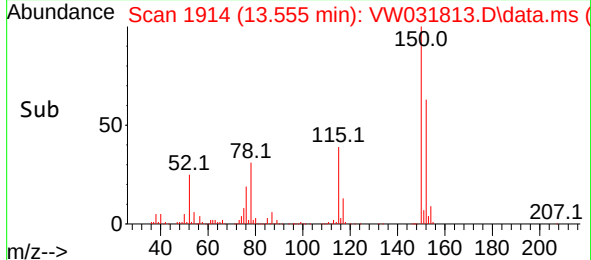
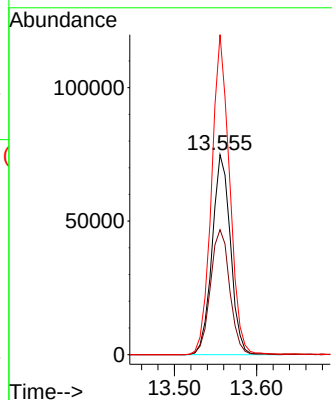
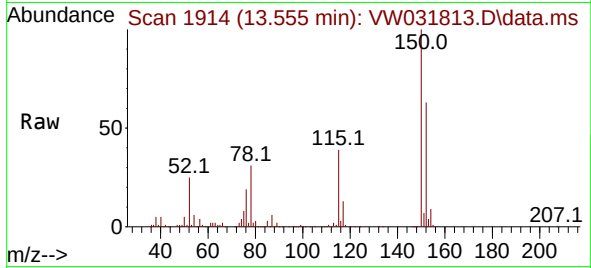




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.555 min Scan# 1914
 Delta R.T. -0.000 min
 Lab File: VW031813.D
 Acq: 10 Jul 2025 18:53

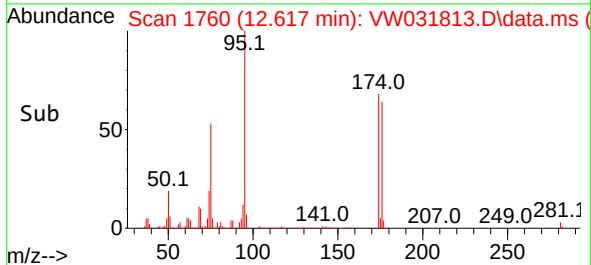
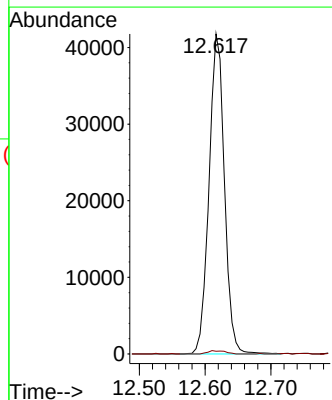
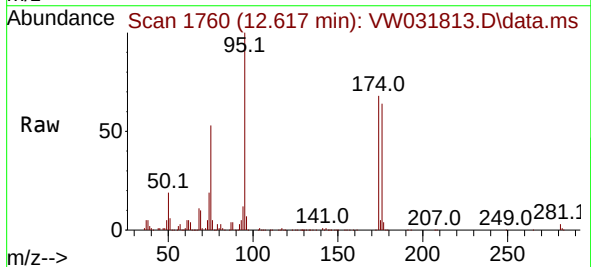
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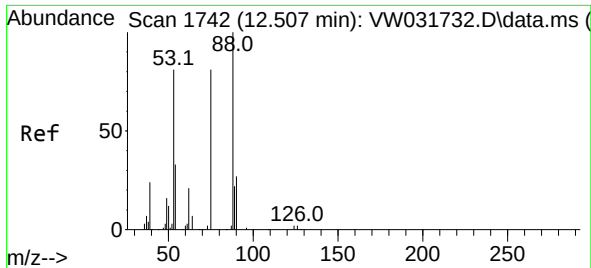
Tgt Ion:152 Resp: 115898
 Ion Ratio Lower Upper
 152 100
 115 65.7 31.9 95.7
 150 157.0 0.0 356.4



#76
 1,2,3-Trichloropropane
 Concen: 45.502 ug/l
 RT: 12.617 min Scan# 1760
 Delta R.T. -0.146 min
 Lab File: VW031813.D
 Acq: 10 Jul 2025 18:53

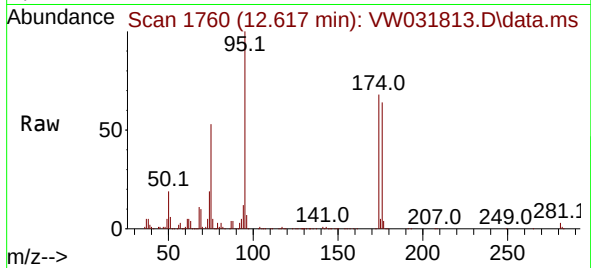
Tgt Ion: 75 Resp: 68149
 Ion Ratio Lower Upper
 75 100
 77 1.2 141.2 423.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 105.980 ug/l
 RT: 12.617 min Scan# 11
 Delta R.T. 0.110 min
 Lab File: VW031813.D
 Acq: 10 Jul 2025 18:53

Instrument :
 MSVOA_W
 ClientSampleId :
 OU4-TS-Denali-070925



Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.1	83.5	125.3#
89	0.1	38.3	57.5#

