

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080125\
 Data File : VW031975.D
 Acq On : 01 Aug 2025 11:12
 Operator : SY/MD
 Sample : Q2741-01
 Misc : 5.00g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 TR-05-07312025

Quant Time: Aug 01 23:10:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 23 08:18:46 2025
 Response via : Initial Calibration

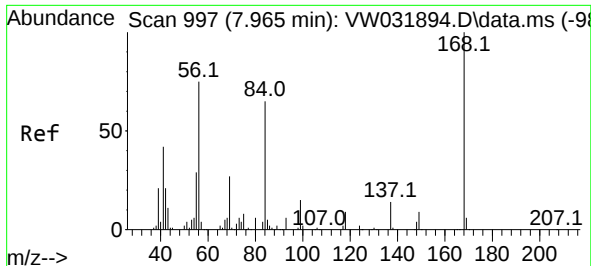
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.959	168	18435	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	30774	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	26093	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.562	152	11281	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	10481	37.583	ug/l	0.00
Spiked Amount 50.000	Range 63 - 155		Recovery =	75.160%		
35) Dibromofluoromethane	7.904	113	9389	44.899	ug/l	0.00
Spiked Amount 50.000	Range 70 - 134		Recovery =	89.800%		
50) Toluene-d8	10.325	98	28195	35.625	ug/l	0.00
Spiked Amount 50.000	Range 74 - 123		Recovery =	71.260%#		
62) 4-Bromofluorobenzene	12.617	95	9801	32.251	ug/l	0.00
Spiked Amount 50.000	Range 17 - 146		Recovery =	64.500%		
Target Compounds						Qvalue
3) Chloromethane	2.253	50	234	1.331	ug/l #	43
13) Acrolein	3.911	56	47	Below Cal	#	14
15) Acrylonitrile	5.405	53	101	1.462	ug/l #	17
16) Acetone	4.155	43	2078	31.401	ug/l	99
20) Methylene Chloride	4.954	84	301	Below Cal	#	77
36) 1,1-Dichloropropene	7.959	75	1693	5.272	ug/l #	45
38) Carbon Tetrachloride	7.959	117	1952	6.333	ug/l #	21
68) m/p-Xylenes	11.836	106	427	1.011	ug/l #	64
69) o-Xylene	12.172	106	584	1.461	ug/l	80
74) N-amyl acetate	12.251	43	766	2.895	ug/l #	31
75) 1,1,2,2-Tetrachloroethane	12.690	83	260	1.251	ug/l #	79
76) 1,2,3-Trichloropropane	12.617	75	4774	30.651	ug/l #	100
78) n-propylbenzene	12.800	91	1900	1.580	ug/l	94
80) 1,3,5-Trimethylbenzene	12.940	105	3056	3.723	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.617	75	4774	70.766	ug/l #	8
83) tert-Butylbenzene	13.434	119	2403	3.437	ug/l	73
84) 1,2,4-Trimethylbenzene	13.251	105	7013	8.440	ug/l	95
85) sec-Butylbenzene	13.373	105	2518	2.398	ug/l	95
86) p-Isopropyltoluene	13.501	119	1205	1.388	ug/l #	68
89) n-Butylbenzene	13.812	91	1834	2.154	ug/l #	60
90) Hexachloroethane	14.092	117	908	6.050	ug/l #	23
95) Naphthalene	15.360	128	2850	4.920	ug/l #	88

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

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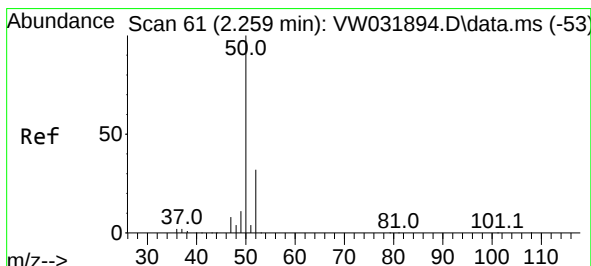
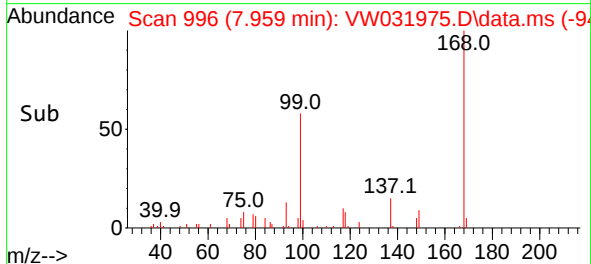
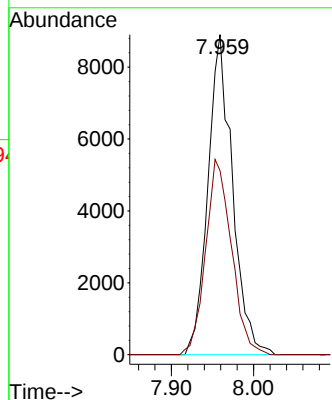
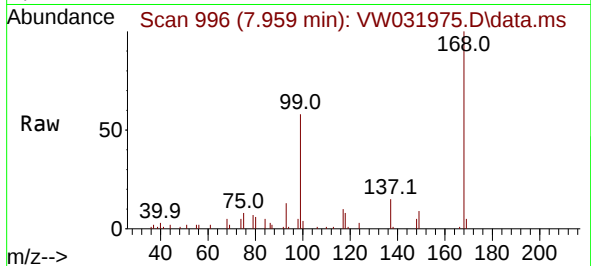




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 99
Delta R.T. -0.006 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

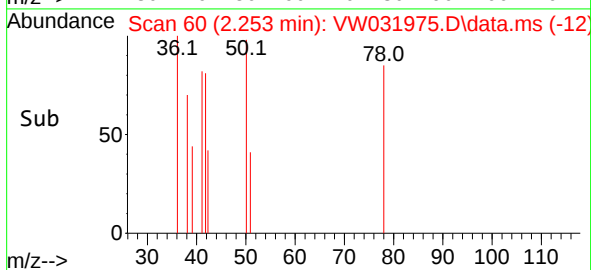
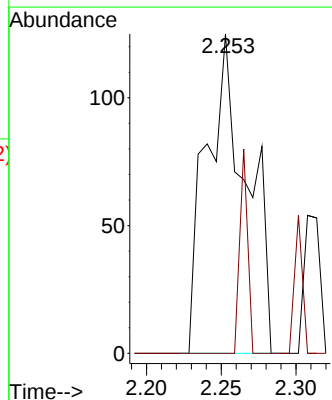
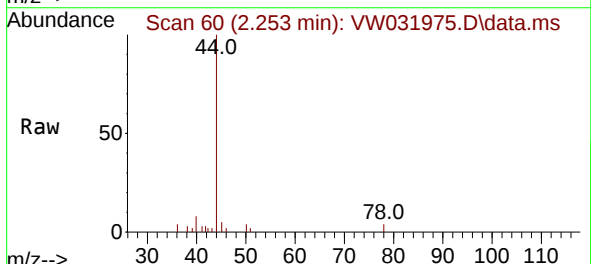
Instrument :
MSVOA_W
ClientSampleId :
TR-05-07312025

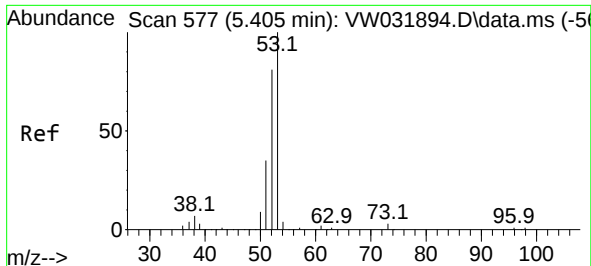
Tgt Ion:168 Resp: 18435
Ion Ratio Lower Upper
168 100
99 57.5 48.2 72.2



#3
Chloromethane
Concen: 1.331 ug/l
RT: 2.253 min Scan# 60
Delta R.T. -0.006 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

Tgt Ion: 50 Resp: 234
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

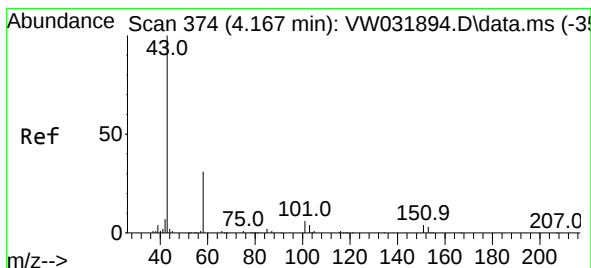
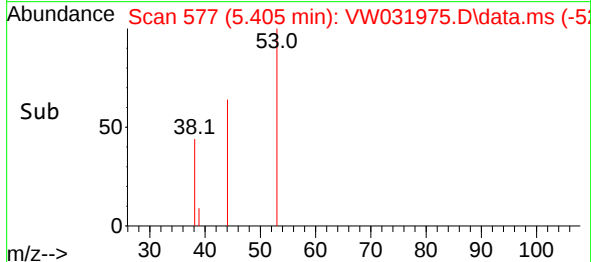
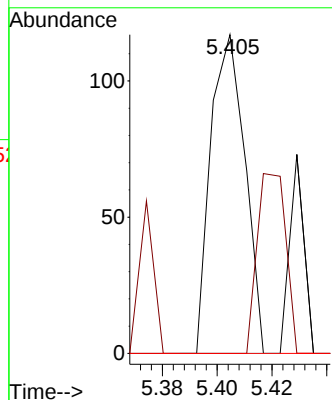
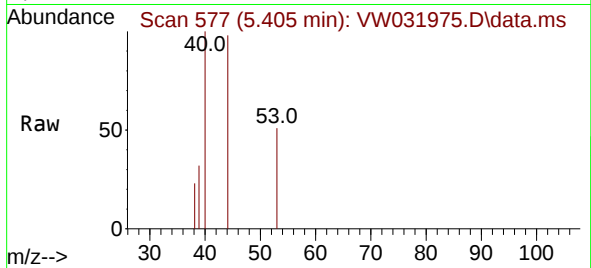




#15
Acrylonitrile
Concen: 1.462 ug/l
RT: 5.405 min Scan# 51
Delta R.T. -0.000 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

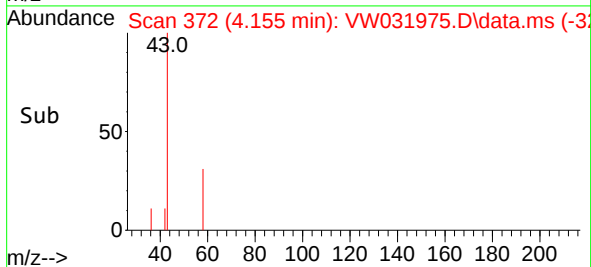
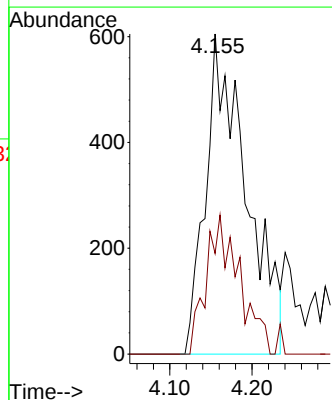
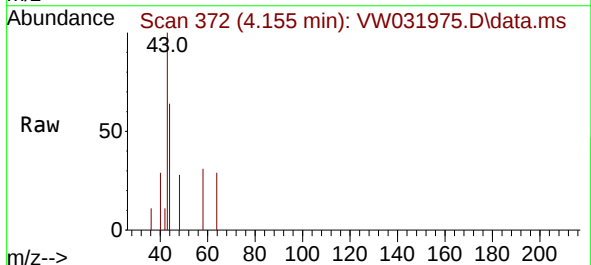
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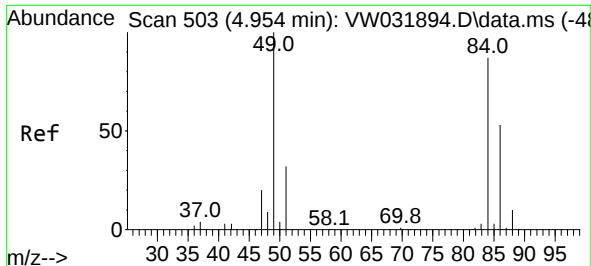
Tgt Ion: 53 Resp: 101
Ion Ratio Lower Upper
53 100
52 0.0 67.0 100.4#
51 0.0 29.9 44.9#



#16
Acetone
Concen: 31.401 ug/l
RT: 4.155 min Scan# 372
Delta R.T. -0.012 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

Tgt Ion: 43 Resp: 2078
Ion Ratio Lower Upper
43 100
58 31.4 25.5 38.3

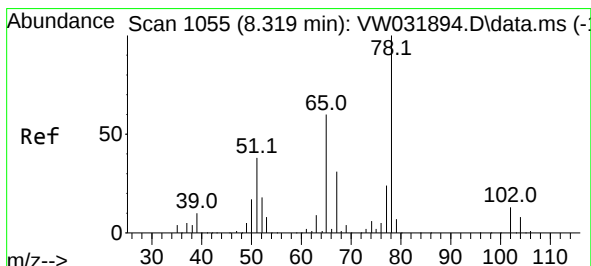
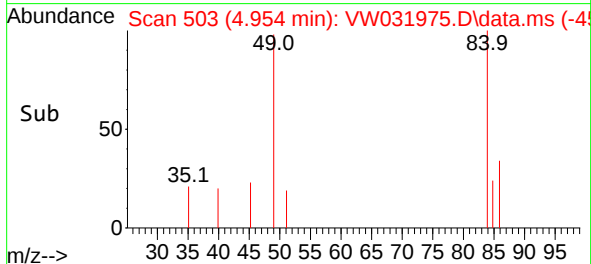
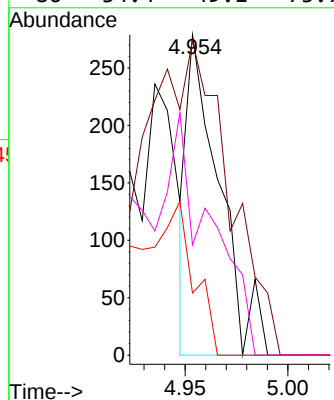
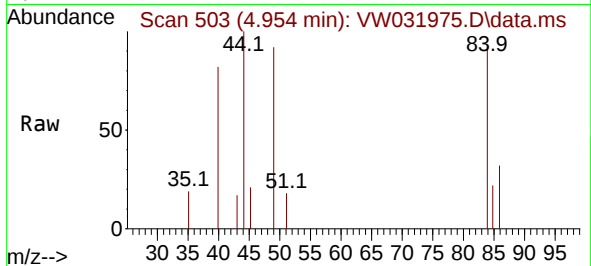




#20
Methylene Chloride
Concen: Below Cal
RT: 4.954 min Scan# 503
Delta R.T. -0.000 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

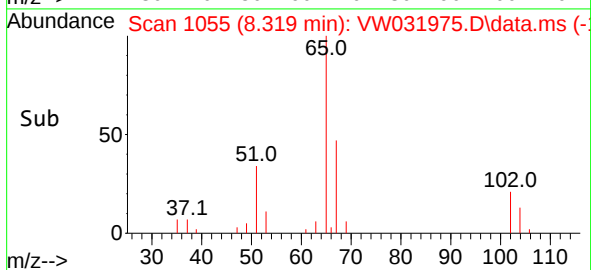
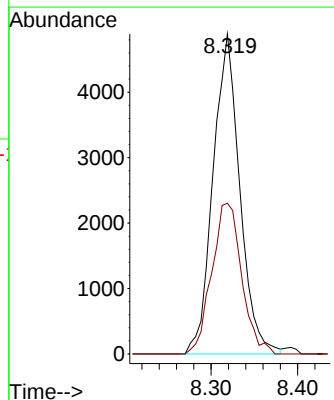
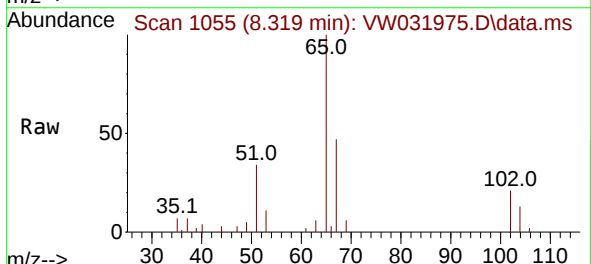
Instrument :
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ClientSampleId :
TR-05-07312025

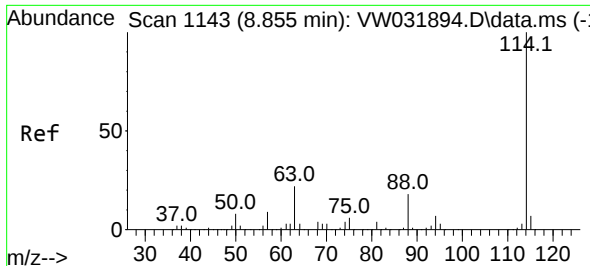
Tgt Ion:	84	Resp:	301
Ion	Ratio	Lower	Upper
84	100		
49	98.2	91.9	137.9
51	19.4	29.0	43.6#
86	34.4	49.1	73.7#



#33
1,2-Dichloroethane-d4
Concen: 37.583 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

Tgt Ion:	65	Resp:	10481
Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	101.4

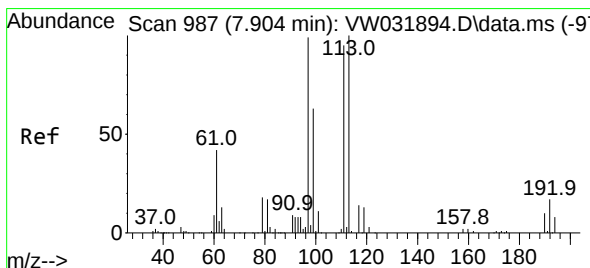
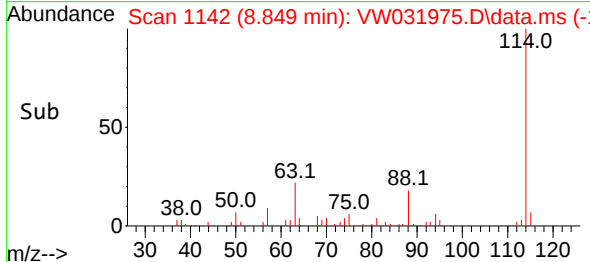
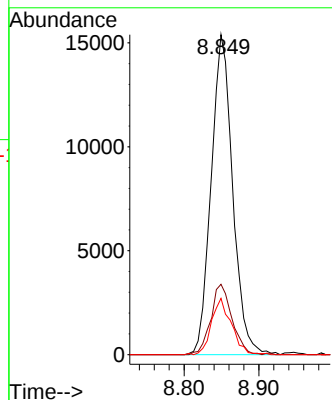
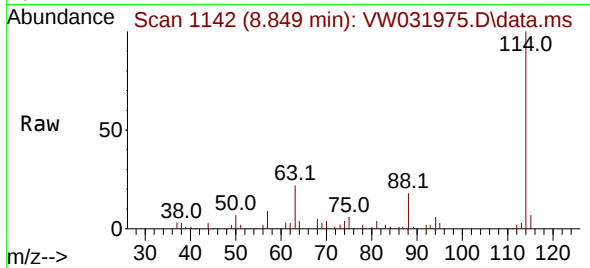




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1143
Delta R.T. -0.006 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

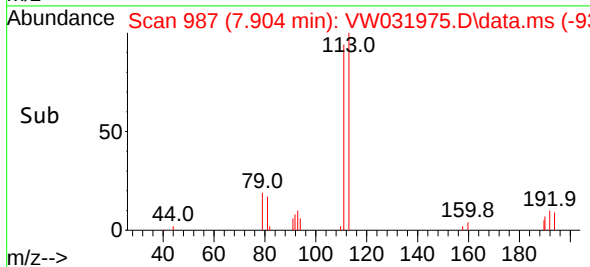
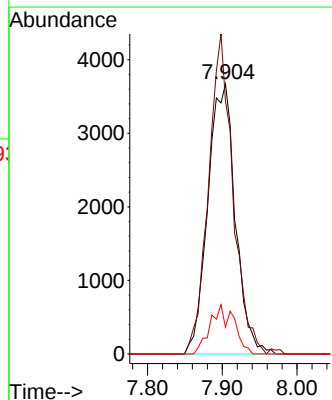
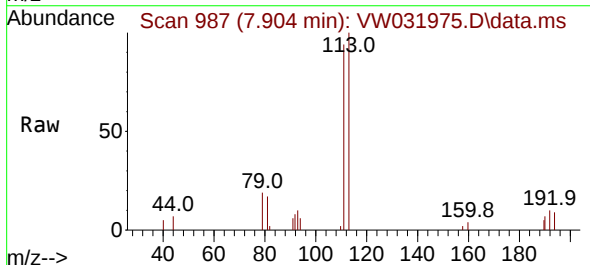
Instrument :
MSVOA_W
ClientSampleId :
TR-05-07312025

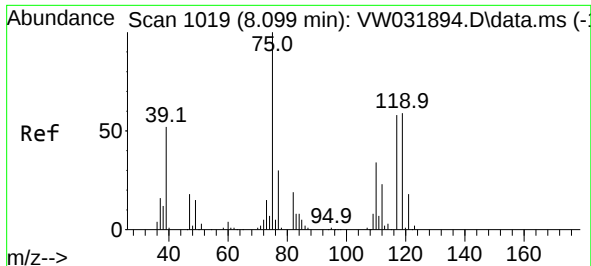
Tgt Ion:114 Resp: 30774
Ion Ratio Lower Upper
114 100
63 22.0 0.0 44.2
88 17.6 0.0 35.6



#35
Dibromofluoromethane
Concen: 44.899 ug/l
RT: 7.904 min Scan# 987
Delta R.T. -0.000 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

Tgt Ion:113 Resp: 9389
Ion Ratio Lower Upper
113 100
111 104.7 79.9 119.9
192 15.7 12.6 19.0

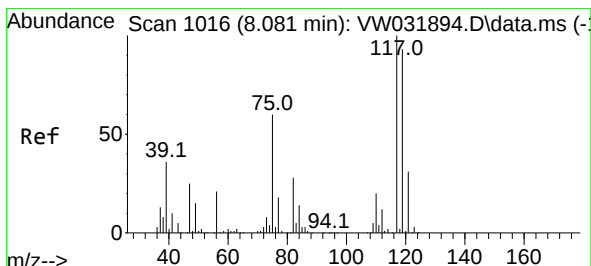
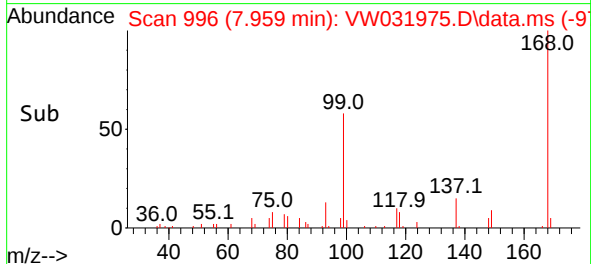
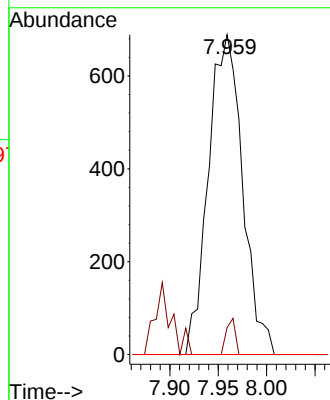
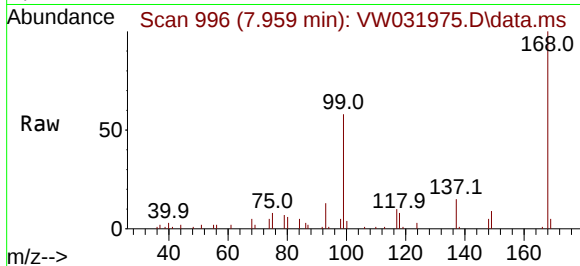




#36
1,1-Dichloropropene
Concen: 5.272 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.140 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

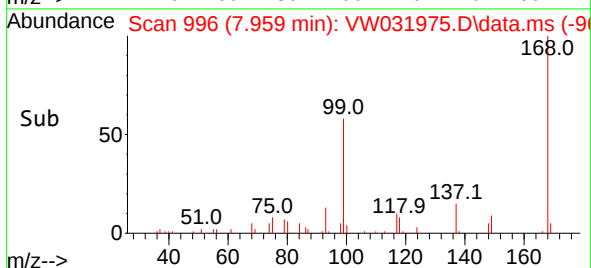
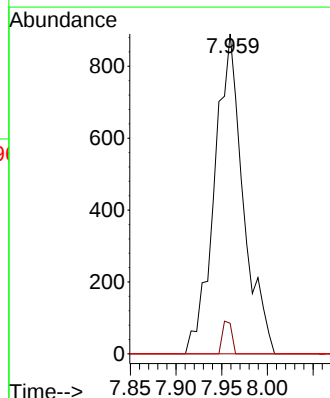
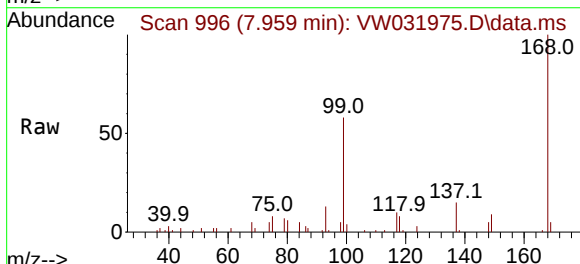
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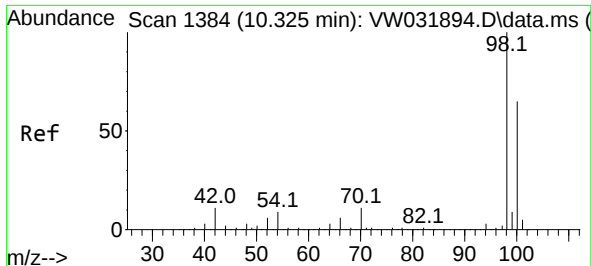
Tgt Ion: 75 Resp: 1693
Ion Ratio Lower Upper
75 100
110 3.0 17.0 50.9#
77 0.0 25.1 37.7#



#38
Carbon Tetrachloride
Concen: 6.333 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.122 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

Tgt Ion: 117 Resp: 1952
Ion Ratio Lower Upper
117 100
119 9.6 74.3 111.5#
121 0.0 24.6 37.0#

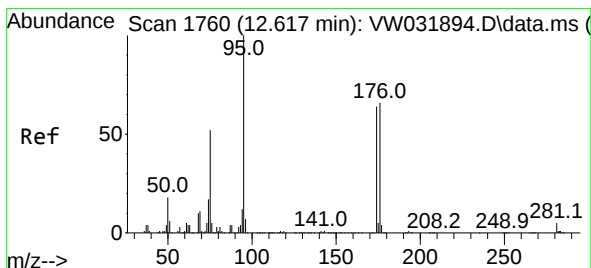
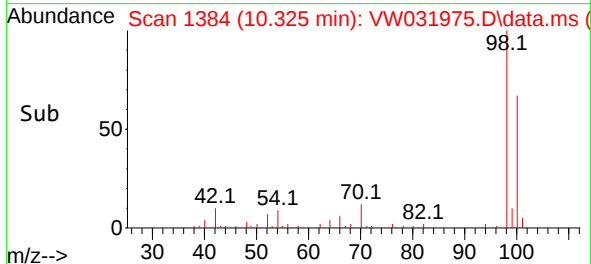
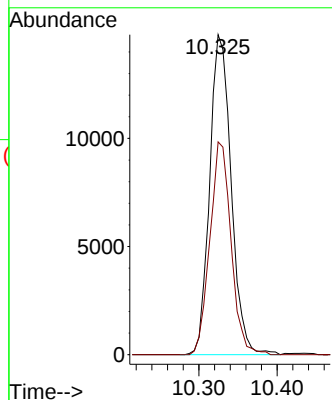
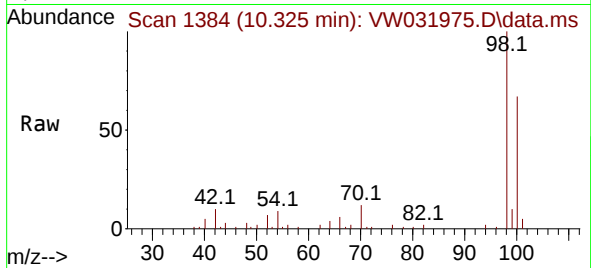




#50
Toluene-d8
Concen: 35.625 ug/l
RT: 10.325 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

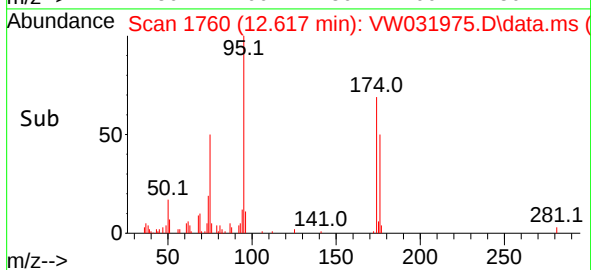
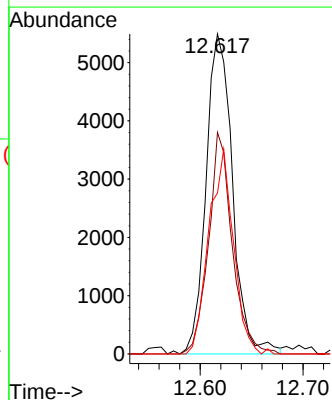
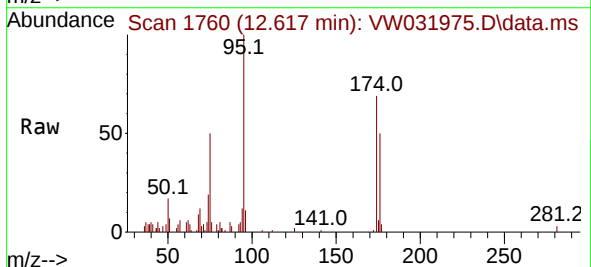
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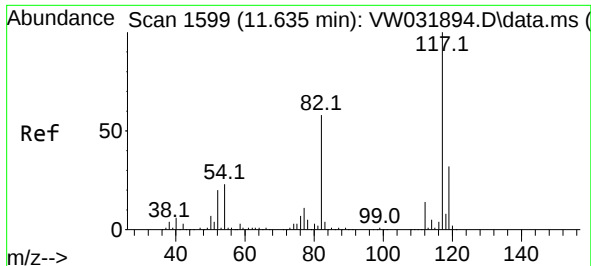
Tgt Ion: 98 Resp: 28195
Ion Ratio Lower Upper
98 100
100 65.6 51.7 77.5



#62
4-Bromofluorobenzene
Concen: 32.251 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

Tgt Ion: 95 Resp: 9801
Ion Ratio Lower Upper
95 100
174 62.3 0.0 129.8
176 60.0 0.0 130.4

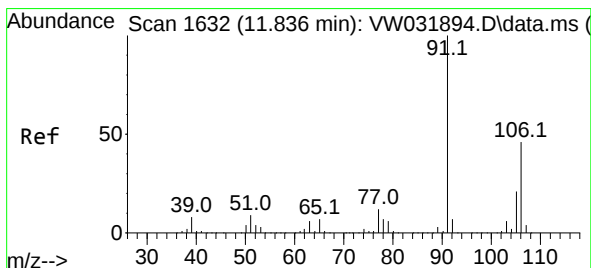
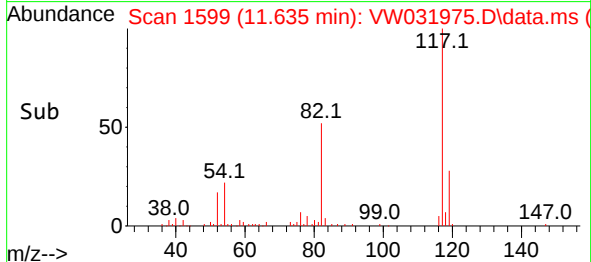
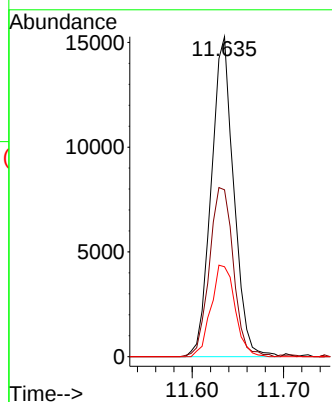
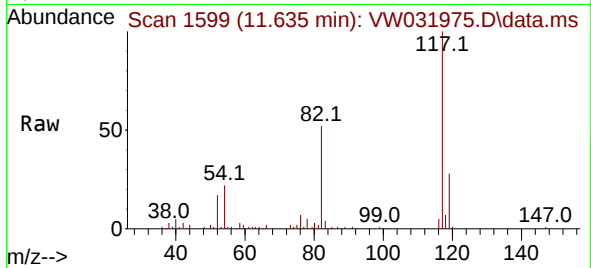




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

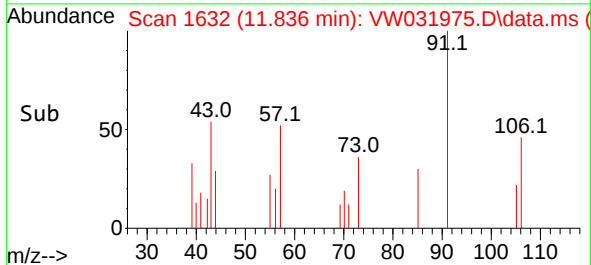
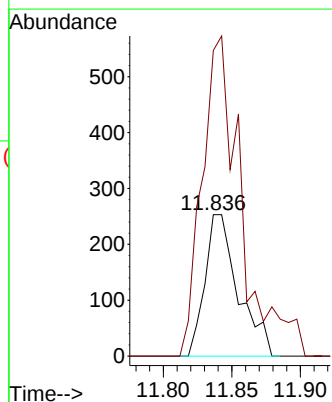
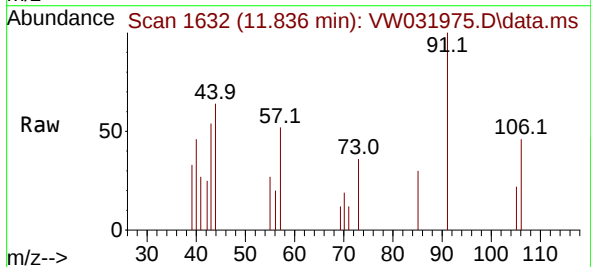
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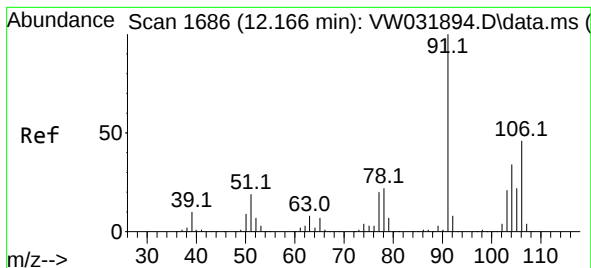
Tgt Ion:117 Resp: 26093
Ion Ratio Lower Upper
117 100
82 52.2 46.5 69.7
119 28.1 25.8 38.6



#68
m/p-Xylenes
Concen: 1.011 ug/l
RT: 11.836 min Scan# 1632
Delta R.T. -0.000 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

Tgt Ion:106 Resp: 427
Ion Ratio Lower Upper
106 100
91 266.5 167.7 251.5#

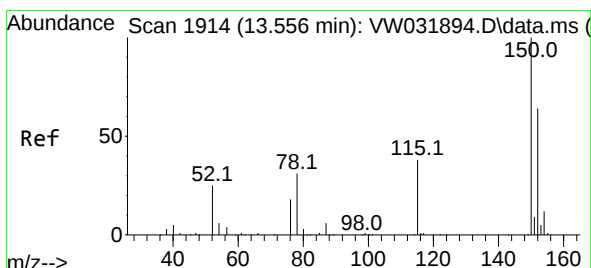
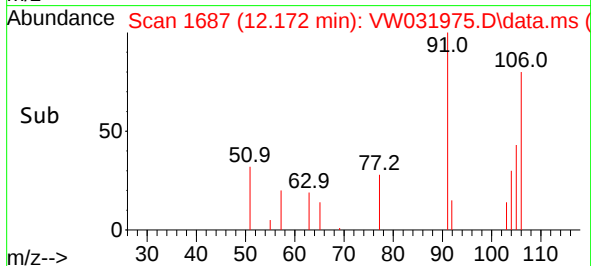
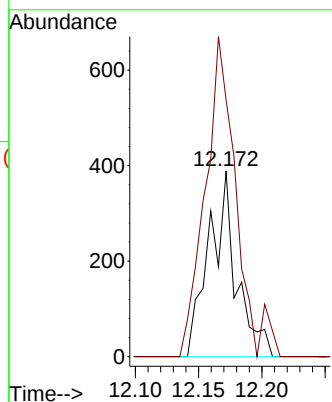
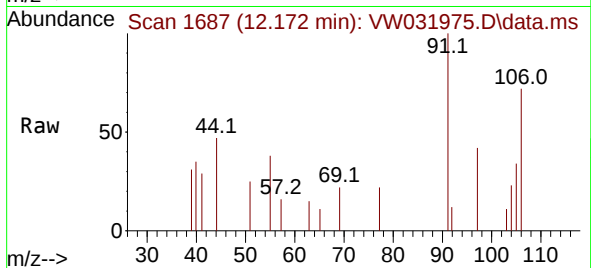




#69
o-Xylene
Concen: 1.461 ug/l
RT: 12.172 min Scan# 1
Delta R.T. 0.006 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

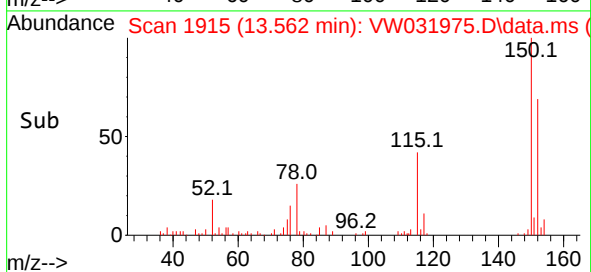
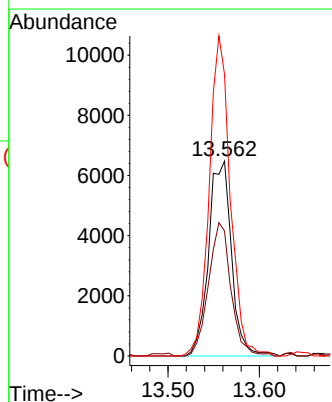
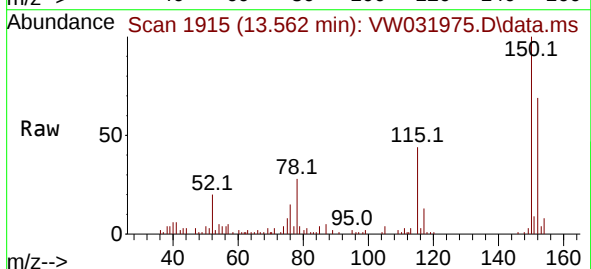
Instrument :
MSVOA_W
ClientSampleId :
TR-05-07312025

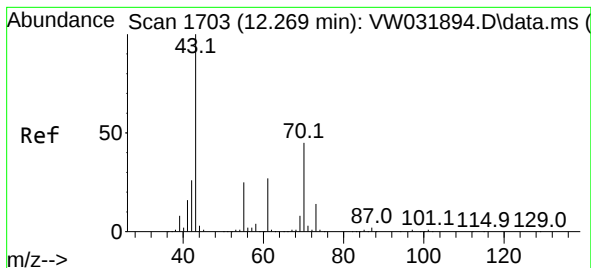
Tgt Ion:106 Resp: 584
Ion Ratio Lower Upper
106 100
91 183.9 108.2 324.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.562 min Scan# 1915
Delta R.T. 0.006 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

Tgt Ion:152 Resp: 11281
Ion Ratio Lower Upper
152 100
115 66.9 33.4 100.1
150 151.0 0.0 352.2

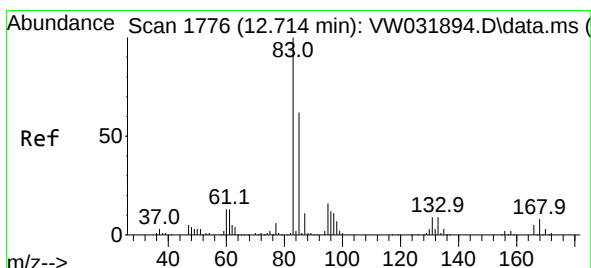
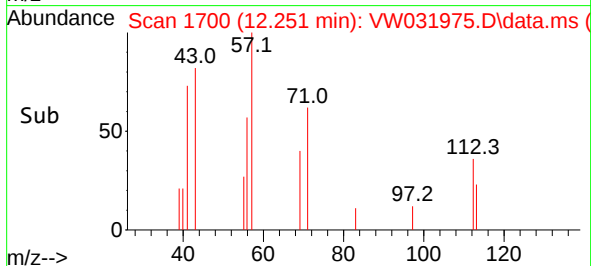
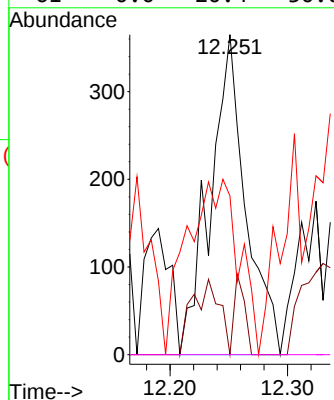
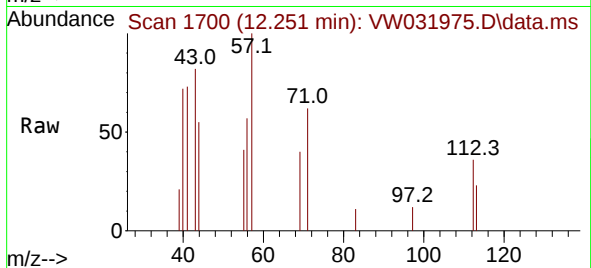




#74
N-amy1 acetate
Concen: 2.895 ug/l
RT: 12.251 min Scan# 1700
Delta R.T. -0.018 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

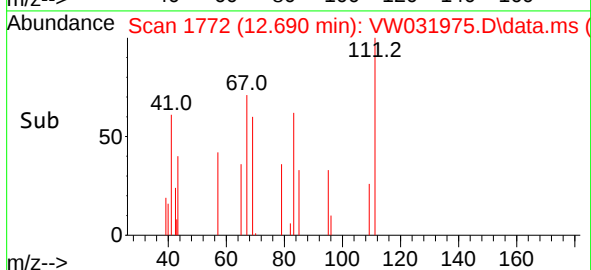
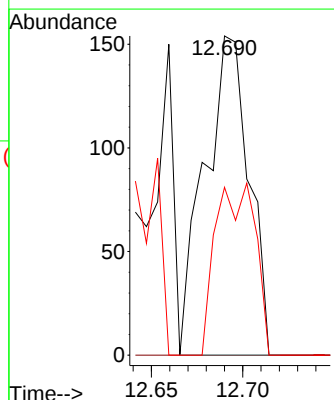
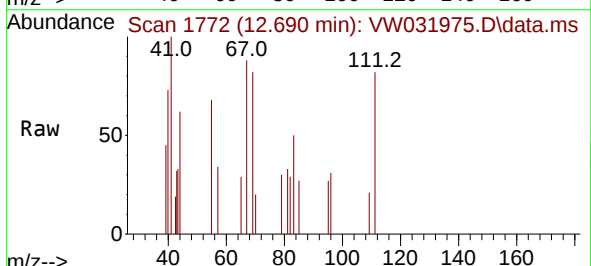
Instrument :
MSVOA_W
ClientSampleId :
TR-05-07312025

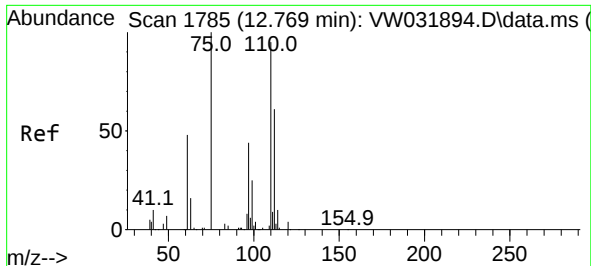
Tgt Ion:	43	Resp:	766
Ion	Ratio	Lower	Upper
43	100		
70	7.3	36.6	55.0#
55	80.0	20.7	31.1#
61	0.0	20.4	30.6#



#75
1,1,2,2-Tetrachloroethane
Concen: 1.251 ug/l
RT: 12.690 min Scan# 1772
Delta R.T. -0.024 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

Tgt Ion:	83	Resp:	260
Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	15.0#
85	48.1	31.8	95.3

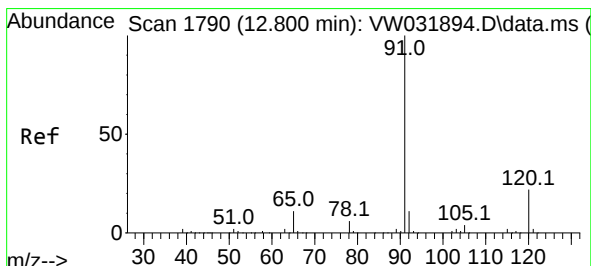
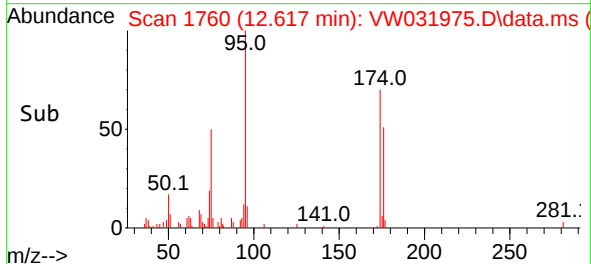
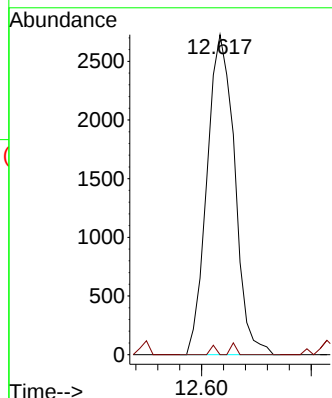
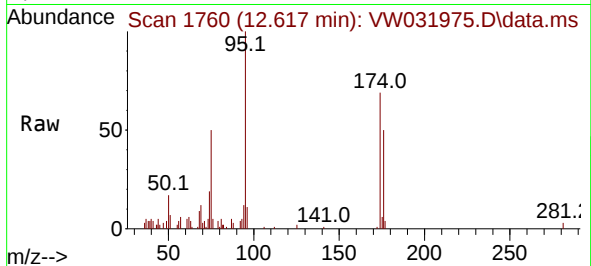




#76
1,2,3-Trichloropropane
Concen: 30.651 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.152 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

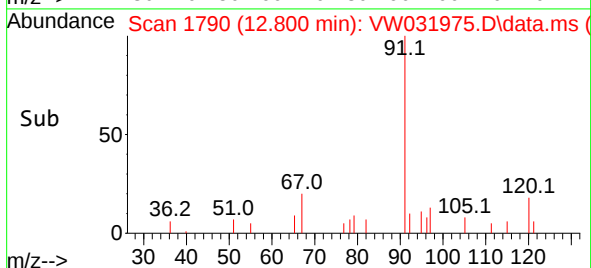
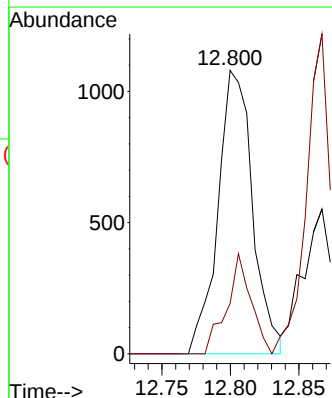
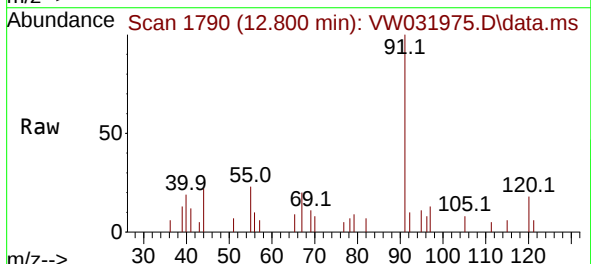
Instrument :
MSVOA_W
ClientSampleId :
TR-05-07312025

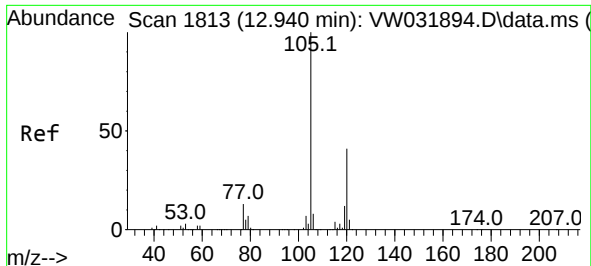
Tgt Ion: 75 Resp: 4774
Ion Ratio Lower Upper
75 100
77 0.6 0.0 0.0#



#78
n-propylbenzene
Concen: 1.580 ug/l
RT: 12.800 min Scan# 1790
Delta R.T. -0.000 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

Tgt Ion: 91 Resp: 1900
Ion Ratio Lower Upper
91 100
120 24.6 10.9 32.6

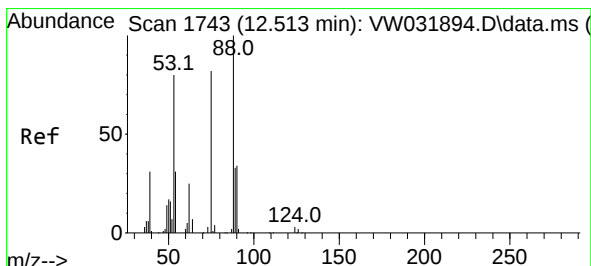
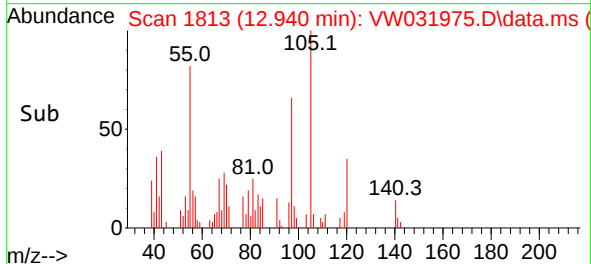
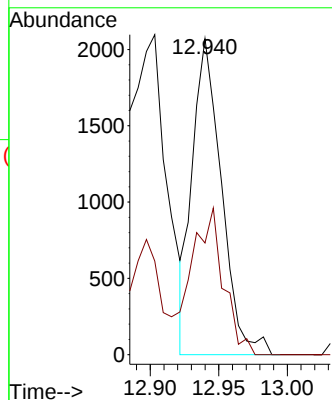
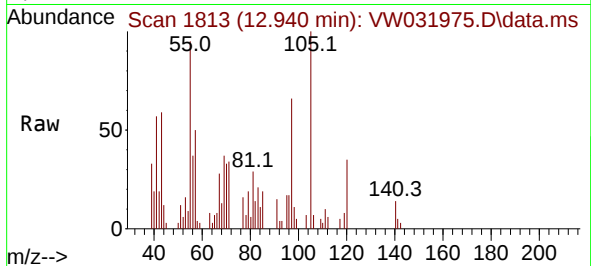




#80
 1,3,5-Trimethylbenzene
 Concen: 3.723 ug/l
 RT: 12.940 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VW031975.D
 Acq: 01 Aug 2025 11:12

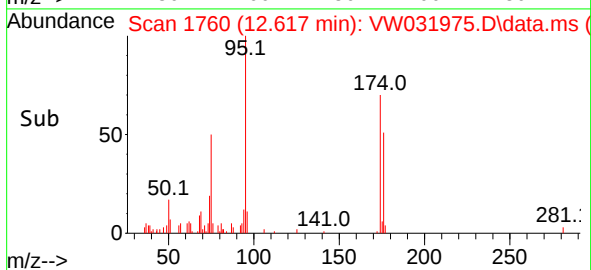
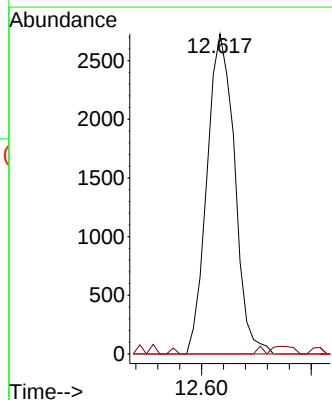
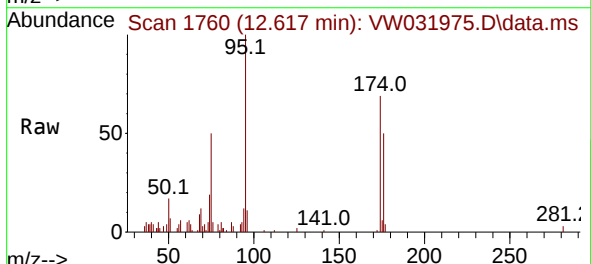
Instrument :
 MSVOA_W
 ClientSampleId :
 TR-05-07312025

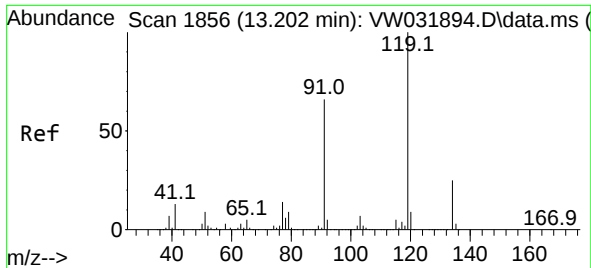
Tgt Ion:105 Resp: 3056
 Ion Ratio Lower Upper
 105 100
 120 51.2 23.5 70.5



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.766 ug/l
 RT: 12.617 min Scan# 1760
 Delta R.T. 0.104 min
 Lab File: VW031975.D
 Acq: 01 Aug 2025 11:12

Tgt Ion: 75 Resp: 4774
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.7 125.5#
 89 0.0 39.0 58.6#

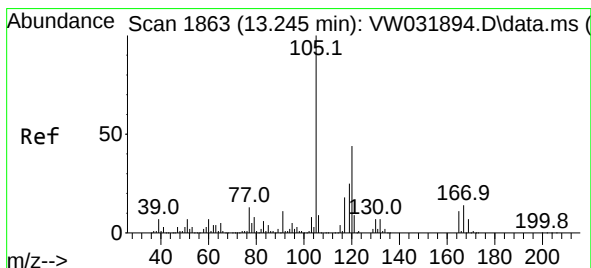
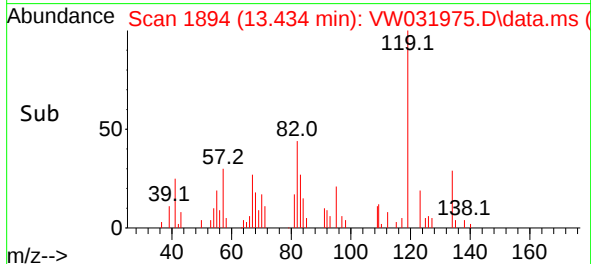
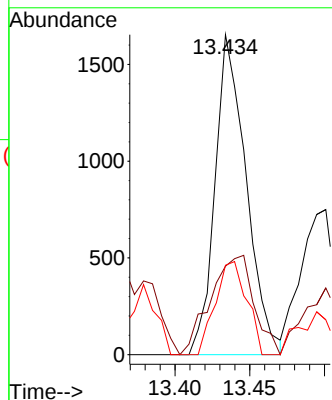
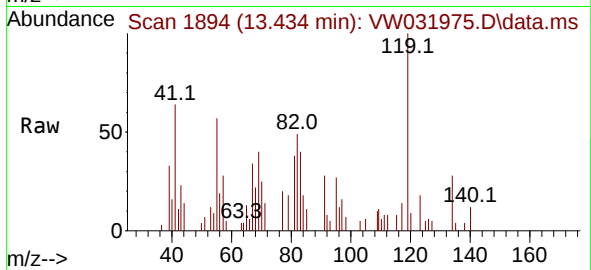




#83
tert-Butylbenzene
Concen: 3.437 ug/l
RT: 13.434 min Scan# 1894
Delta R.T. 0.232 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

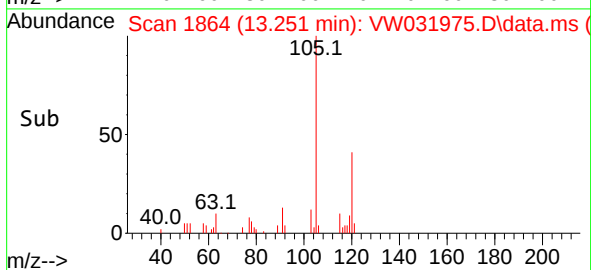
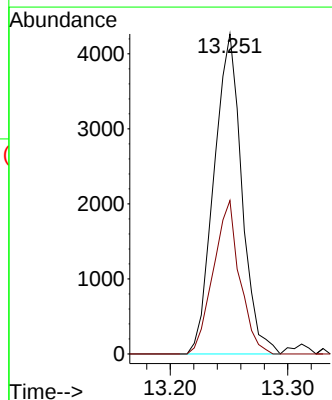
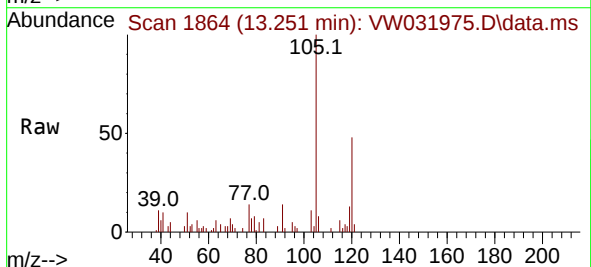
Instrument :
MSVOA_W
ClientSampleId :
TR-05-07312025

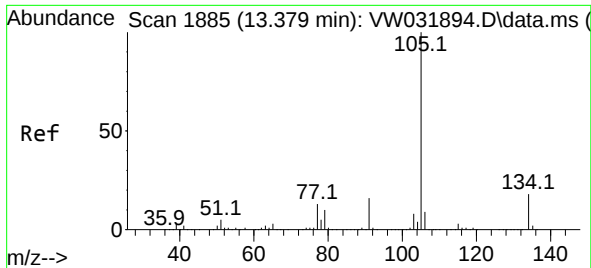
Tgt Ion:119 Resp: 2403
Ion Ratio Lower Upper
119 100
91 43.0 35.5 106.5
134 29.2 12.4 37.0



#84
1,2,4-Trimethylbenzene
Concen: 8.440 ug/l
RT: 13.251 min Scan# 1864
Delta R.T. 0.006 min
Lab File: VW031975.D
Acq: 01 Aug 2025 11:12

Tgt Ion:105 Resp: 7013
Ion Ratio Lower Upper
105 100
120 45.5 21.3 63.9

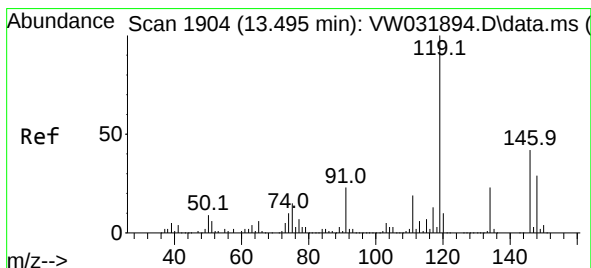
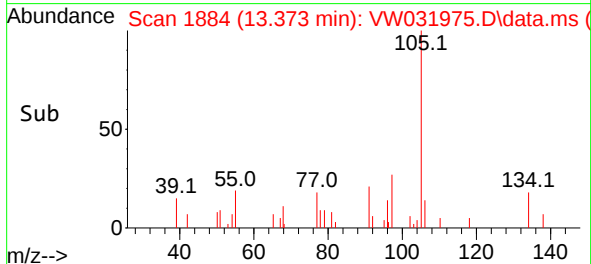
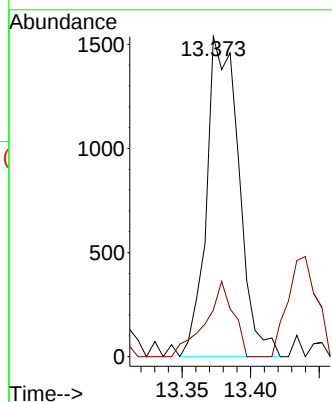
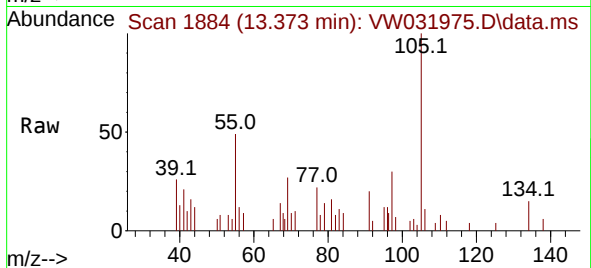




#85
 sec-Butylbenzene
 Concen: 2.398 ug/l
 RT: 13.373 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VW031975.D
 Acq: 01 Aug 2025 11:12

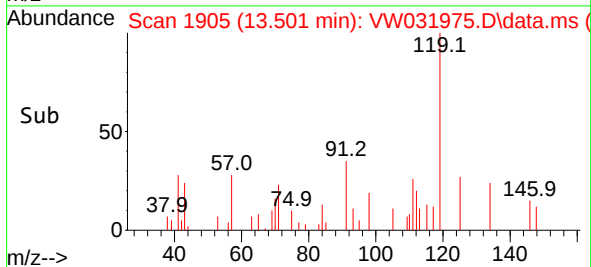
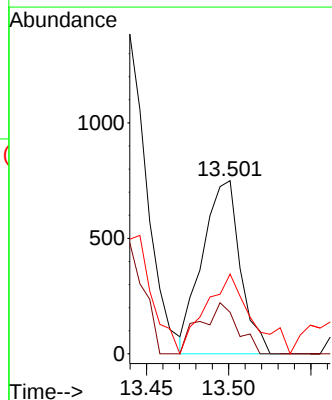
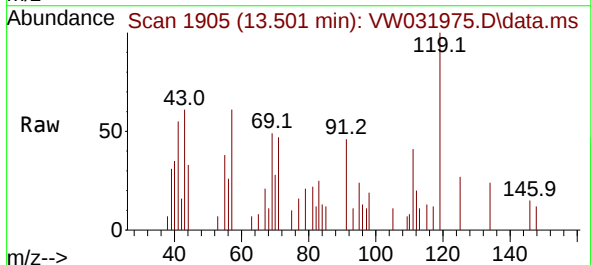
Instrument :
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 ClientSampleId :
 TR-05-07312025

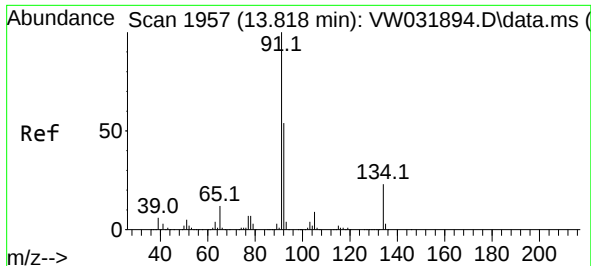
Tgt Ion:105 Resp: 2518
 Ion Ratio Lower Upper
 105 100
 134 20.4 9.2 27.6



#86
 p-Isopropyltoluene
 Concen: 1.388 ug/l
 RT: 13.501 min Scan# 1905
 Delta R.T. 0.006 min
 Lab File: VW031975.D
 Acq: 01 Aug 2025 11:12

Tgt Ion:119 Resp: 1205
 Ion Ratio Lower Upper
 119 100
 134 29.1 13.0 39.0
 91 55.4 12.7 38.1#





#89

n-Butylbenzene

Concen: 2.154 ug/l

RT: 13.812 min Scan# 1957

Delta R.T. -0.006 min

Lab File: VW031975.D

Acq: 01 Aug 2025 11:12

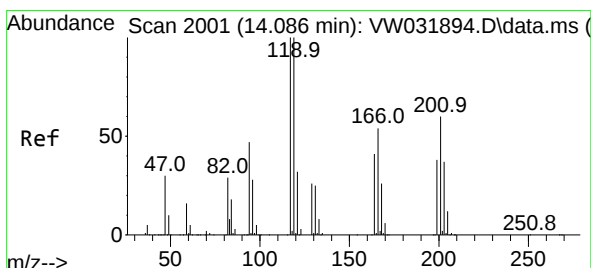
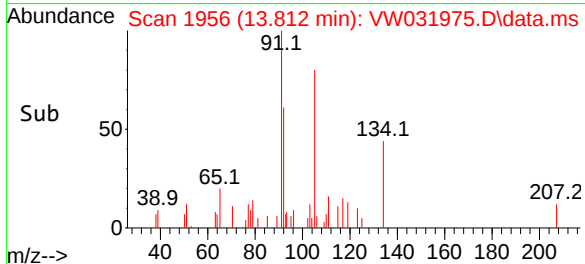
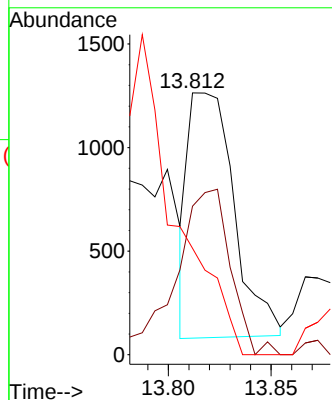
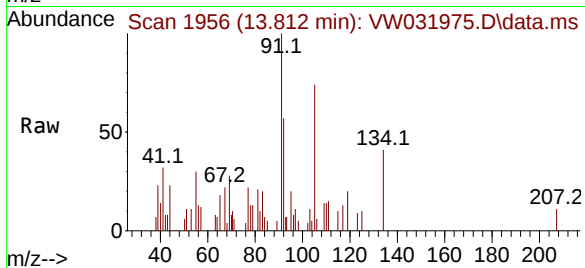
Instrument :

MSVOA_W

ClientSampleId :

TR-05-07312025

Tgt Ion: 91	Resp:	1834
Ion Ratio	Lower	Upper
91	100	
92	80.5	27.2 81.5
134	0.0	11.6 34.7#



#90

Hexachloroethane

Concen: 6.050 ug/l

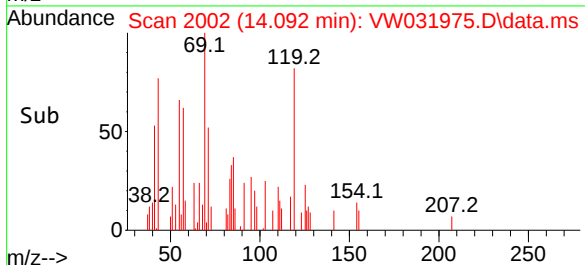
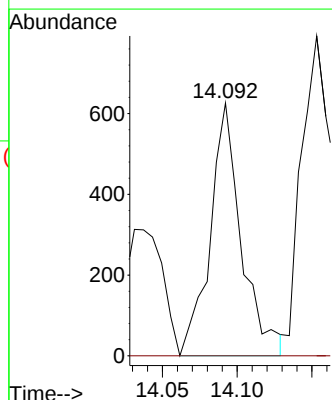
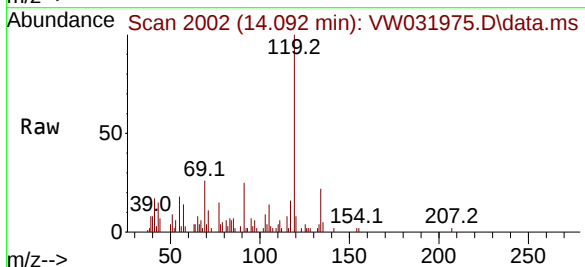
RT: 14.092 min Scan# 2002

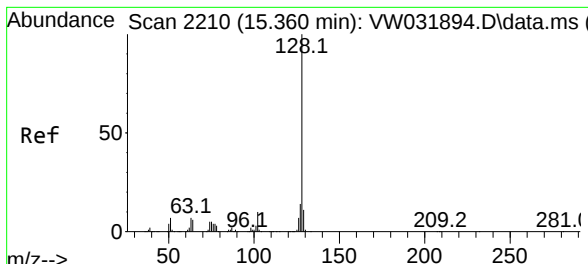
Delta R.T. 0.006 min

Lab File: VW031975.D

Acq: 01 Aug 2025 11:12

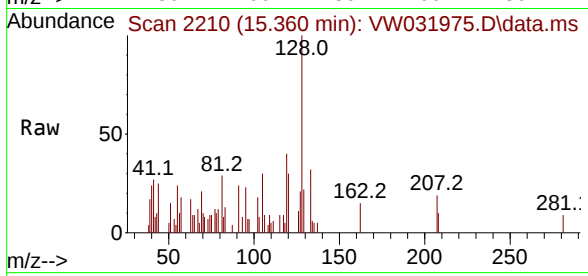
Tgt Ion: 117	Resp:	908
Ion Ratio	Lower	Upper
117	100	
201	0.0	28.4 85.2#





#95
 Naphthalene
 Concen: 4.920 ug/l
 RT: 15.360 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VW031975.D
 Acq: 01 Aug 2025 11:12

Instrument :
 MSVOA_W
 ClientSampleId :
 TR-05-07312025



Tgt Ion:	128	Resp:	2850
Ion	Ratio	Lower	Upper
128	100		
127	20.9	10.7	16.1#
129	10.2	9.2	13.8

