

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032500.D
 Acq On : 19 Nov 2025 14:20
 Operator : SY/MD
 Sample : Q3664-01
 Misc : 5.06g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ARS20-0001

Quant Time: Nov 20 01:19:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

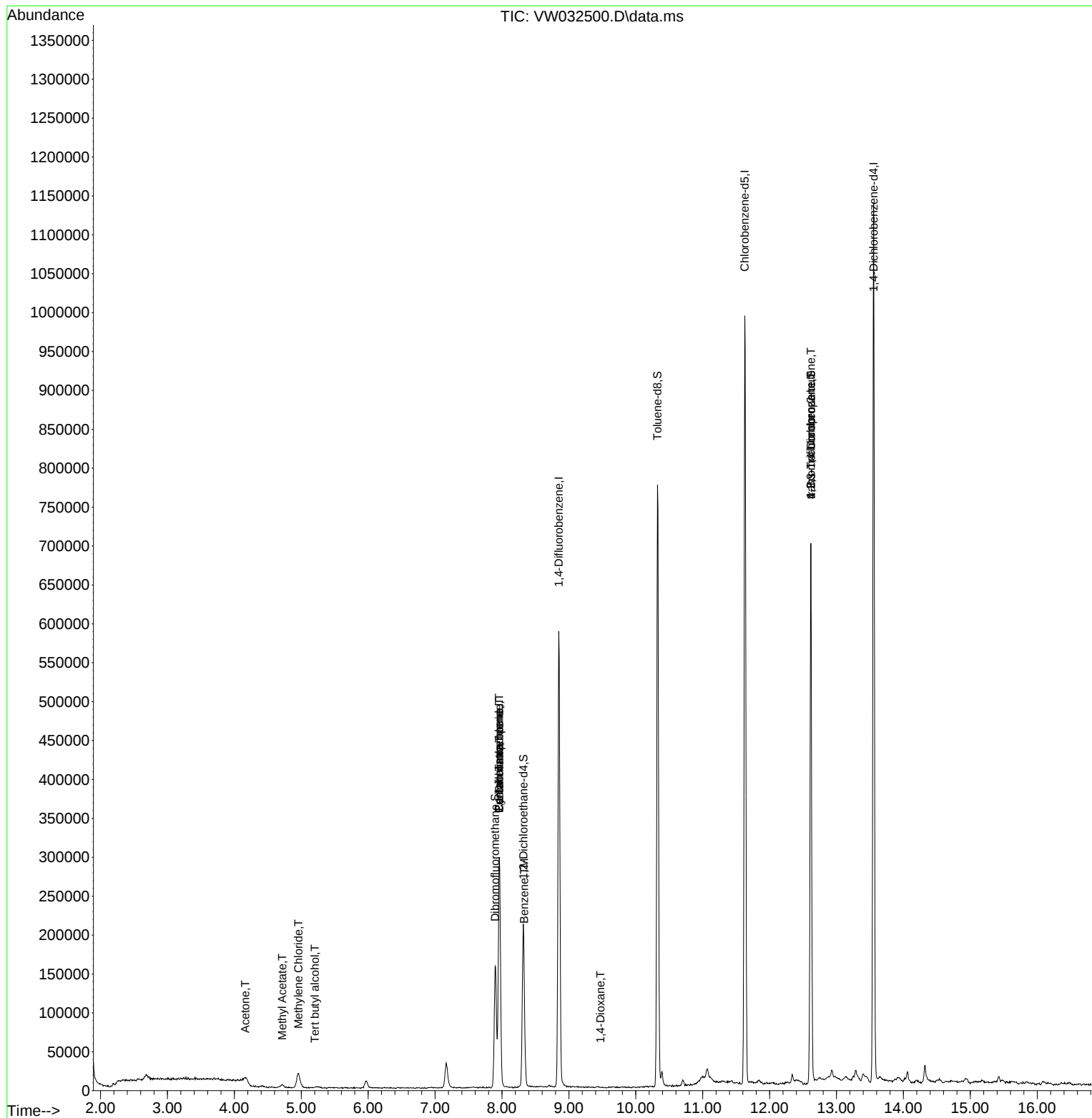
Internal Standards						
1) Pentafluorobenzene	7.959	168	214587	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	486578	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	551059	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	281844	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	159653	57.709	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 115.420%		
35) Dibromofluoromethane	7.898	113	116893	40.124	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 80.240%		
50) Toluene-d8	10.325	98	512116	45.822	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 91.640%		
62) 4-Bromofluorobenzene	12.617	95	243456	57.665	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 115.320%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.204	59	544	2.274	ug/l #	64
16) Acetone	4.161	43	7572	9.148	ug/l	96
18) Methyl Acetate	4.716	43	7598	3.707	ug/l #	87
20) Methylene Chloride	4.960	84	16526	5.583	ug/l	91
31) Cyclohexane	7.959	56	5725	1.251	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	19223	4.478	ug/l #	50
38) Carbon Tetrachloride	7.959	117	23157	6.072	ug/l #	16
40) Benzene	8.331	78	19884	1.438	ug/l	99
49) 1,4-Dioxane	9.471	88	52	1.845	ug/l #	10
76) 1,2,3-Trichloropropane	12.617	75	117404	30.380	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	117404	69.583	ug/l #	11

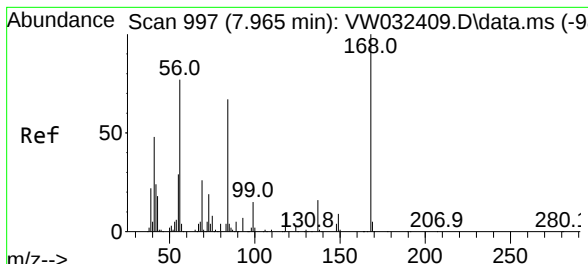
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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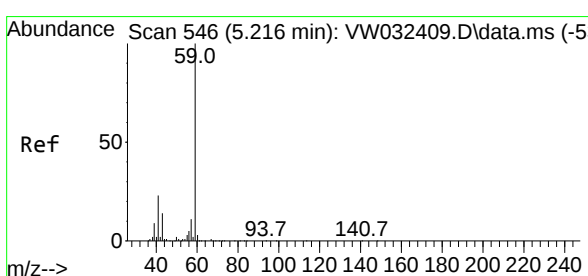
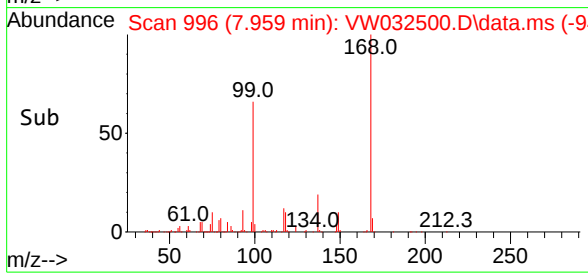
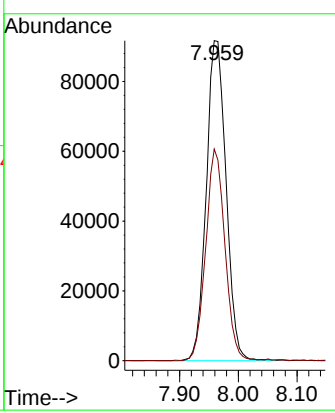
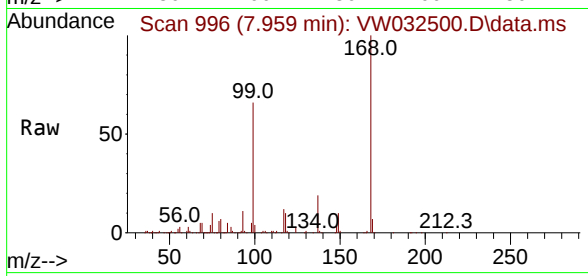


#1
 Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.959 min Scan# 99
 Delta R.T. -0.006 min
 Lab File: VW032500.D
 Acq: 19 Nov 2025 14:20

Instrument :
 MSVOA_W
 ClientSampleId :
 ARS20-0001

Tgt Ion:168 Resp: 214587

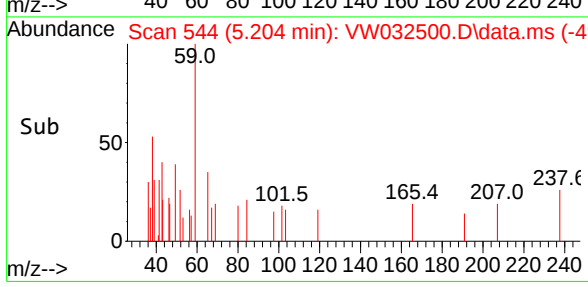
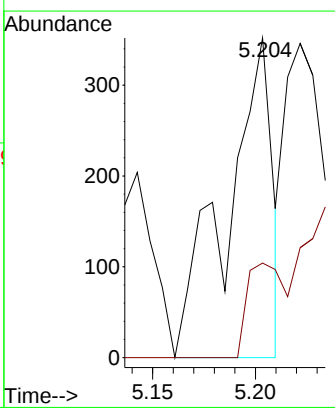
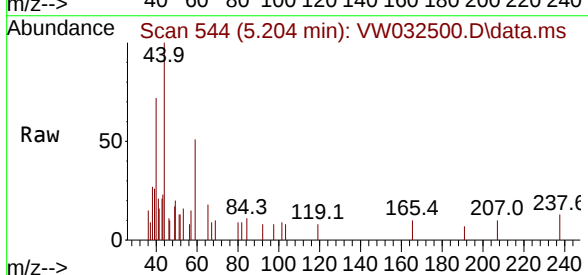
Ion	Ratio	Lower	Upper
168	100		
99	66.0	45.4	68.2

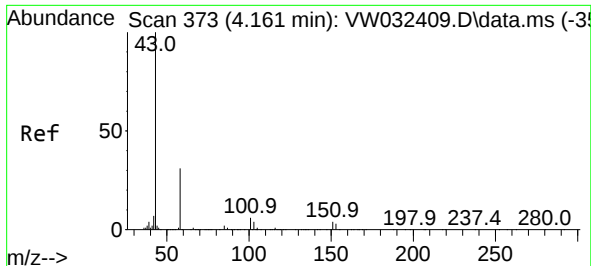


#11
 Tert butyl alcohol
 Concen: 2.274 ug/l
 RT: 5.204 min Scan# 544
 Delta R.T. -0.012 min
 Lab File: VW032500.D
 Acq: 19 Nov 2025 14:20

Tgt Ion: 59 Resp: 544

Ion	Ratio	Lower	Upper
59	100		
57	24.4	8.6	12.8

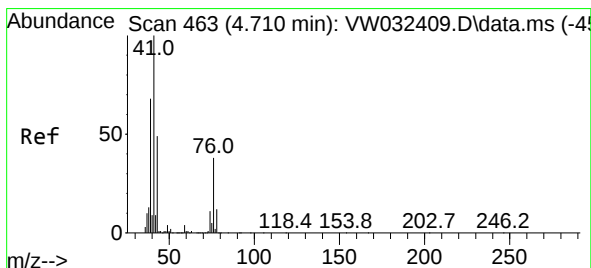
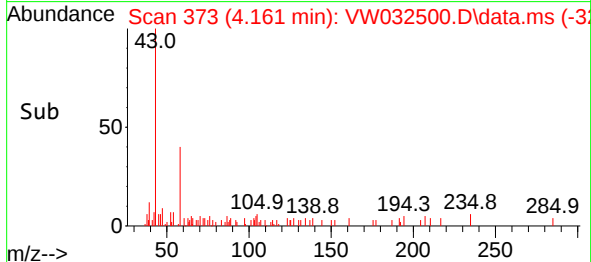
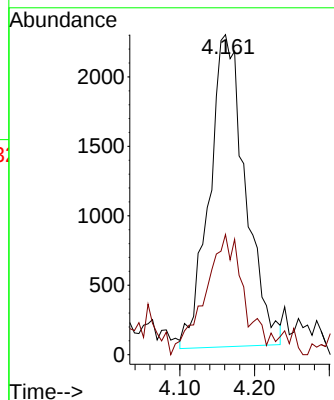
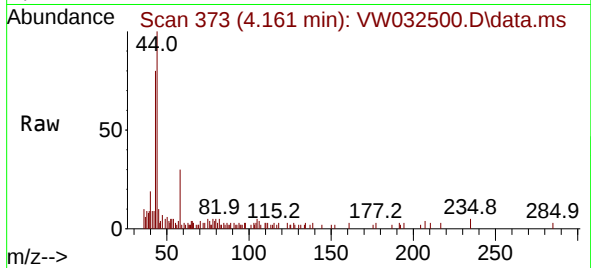




#16
Acetone
Concen: 9.148 ug/l
RT: 4.161 min Scan# 31
Delta R.T. -0.000 min
Lab File: VW032500.D
Acq: 19 Nov 2025 14:20

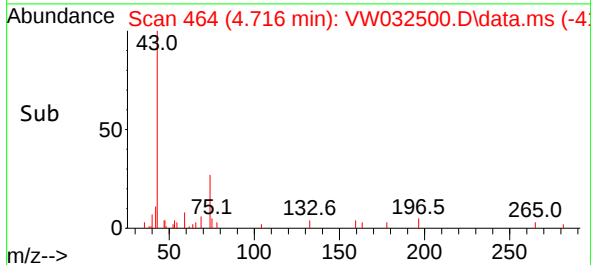
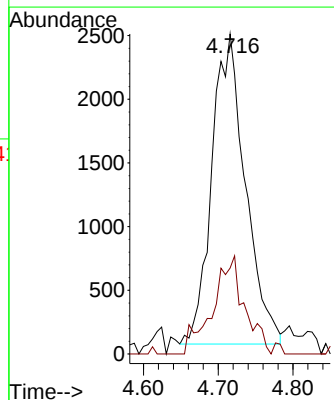
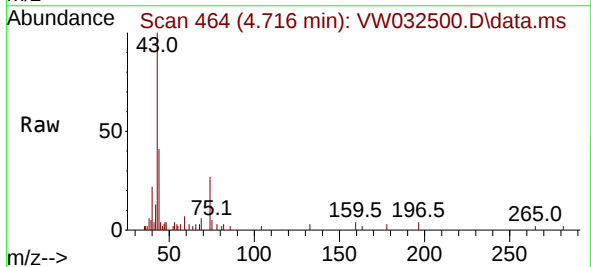
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0001

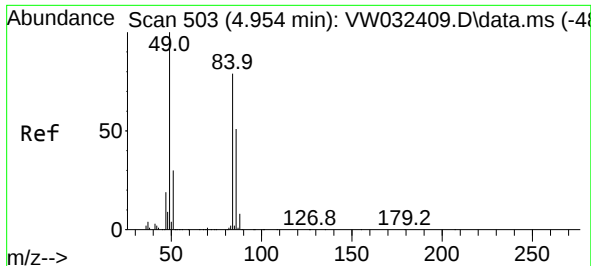
Tgt Ion: 43 Resp: 7572
Ion Ratio Lower Upper
43 100
58 33.4 24.8 37.2



#18
Methyl Acetate
Concen: 3.707 ug/l
RT: 4.716 min Scan# 464
Delta R.T. 0.006 min
Lab File: VW032500.D
Acq: 19 Nov 2025 14:20

Tgt Ion: 43 Resp: 7598
Ion Ratio Lower Upper
43 100
74 30.1 18.9 28.3#

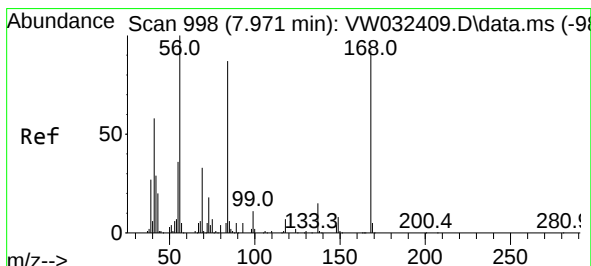
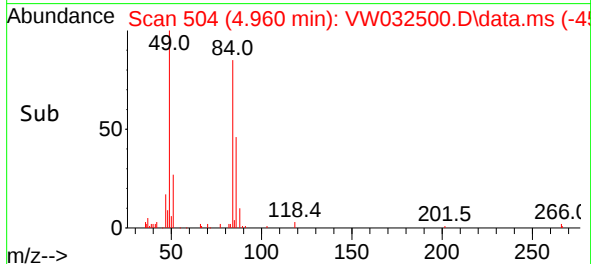
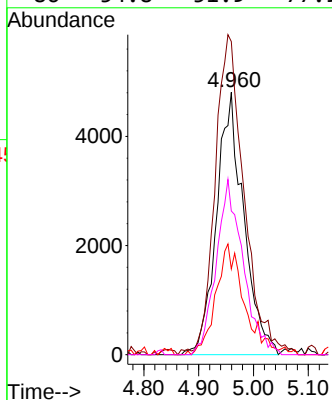
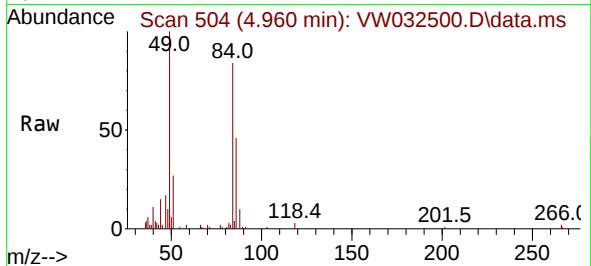




#20
Methylene Chloride
Concen: 5.583 ug/l
RT: 4.960 min Scan# 503
Delta R.T. 0.006 min
Lab File: VW032500.D
Acq: 19 Nov 2025 14:20

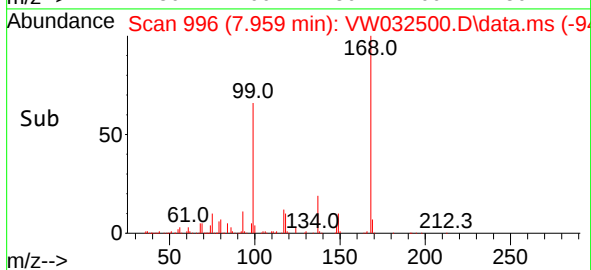
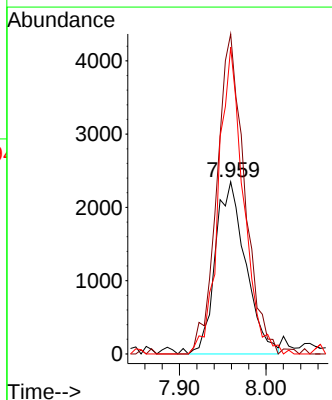
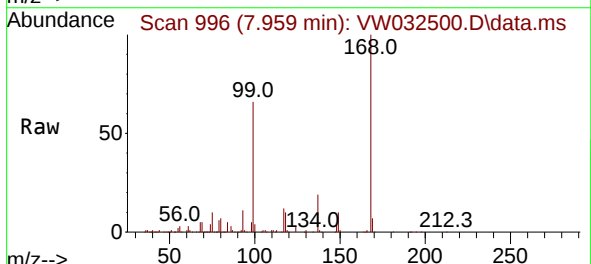
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0001

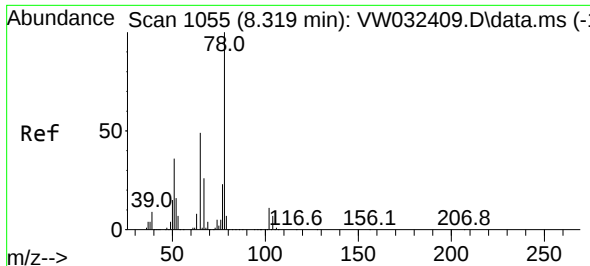
Tgt Ion:	84	Resp:	16526
Ion	Ratio	Lower	Upper
84	100		
49	119.4	101.5	152.3
51	32.7	30.6	46.0
86	54.8	51.9	77.9



#31
Cyclohexane
Concen: 1.251 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032500.D
Acq: 19 Nov 2025 14:20

Tgt Ion:	56	Resp:	5725
Ion	Ratio	Lower	Upper
56	100		
69	185.8	26.5	39.7#
84	178.1	69.6	104.4#





#33

1,2-Dichloroethane-d4

Concen: 57.709 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VW032500.D

Acq: 19 Nov 2025 14:20

Instrument :

MSVOA_W

ClientSampleId :

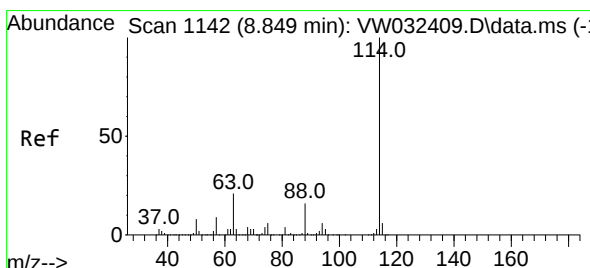
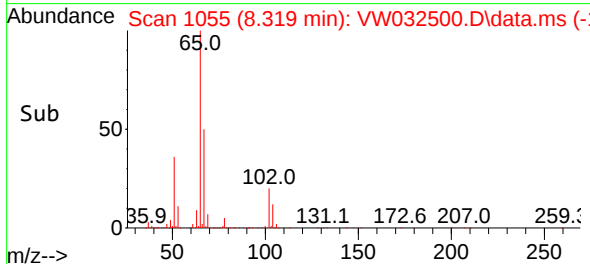
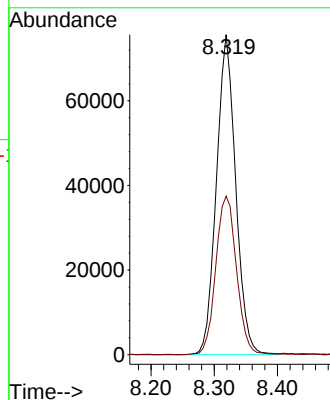
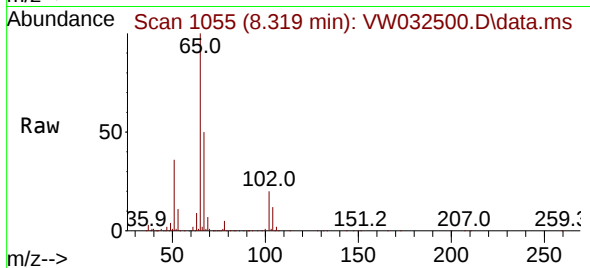
ARS20-0001

Tgt Ion: 65 Resp: 159653

Ion Ratio Lower Upper

65 100

67 53.5 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1142

Delta R.T. -0.000 min

Lab File: VW032500.D

Acq: 19 Nov 2025 14:20

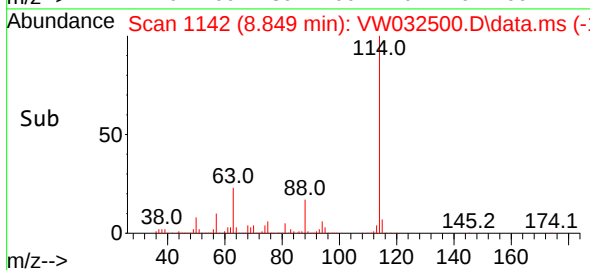
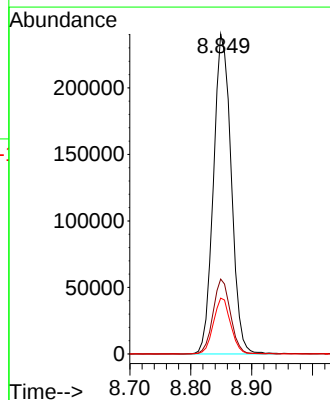
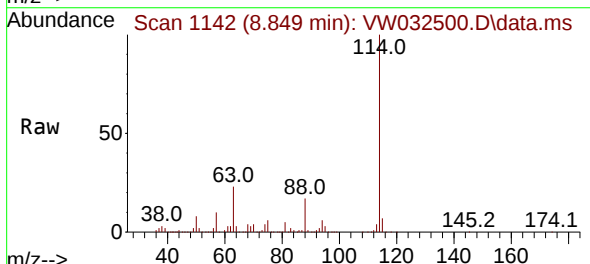
Tgt Ion: 114 Resp: 486578

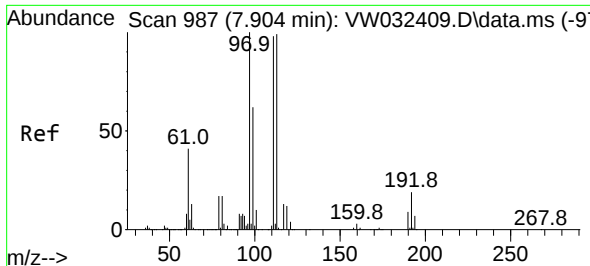
Ion Ratio Lower Upper

114 100

63 23.4 0.0 41.8

88 17.4 0.0 32.6

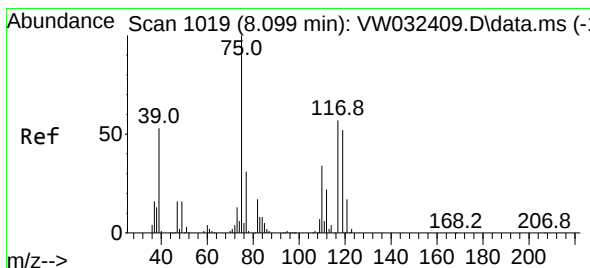
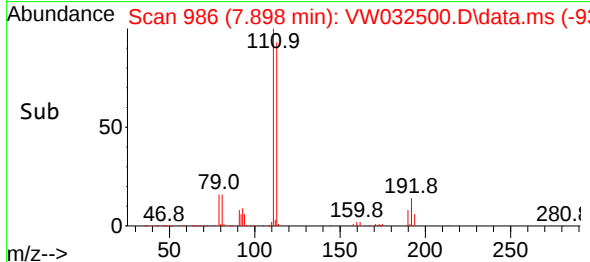
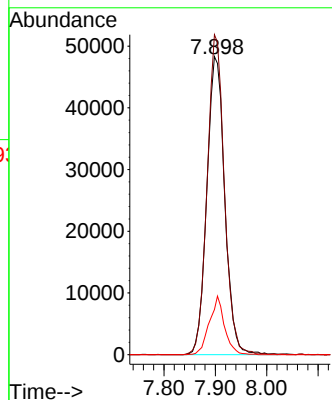
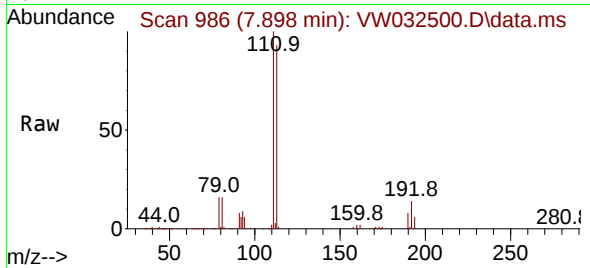




#35
Dibromofluoromethane
Concen: 40.124 ug/l
RT: 7.898 min Scan# 911
Delta R.T. -0.006 min
Lab File: VW032500.D
Acq: 19 Nov 2025 14:20

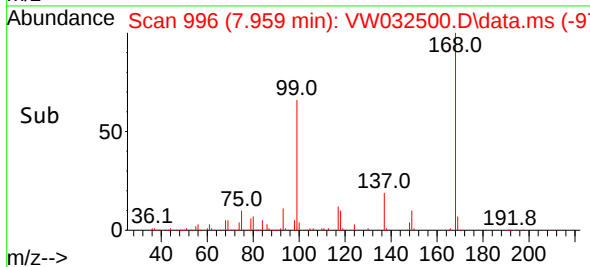
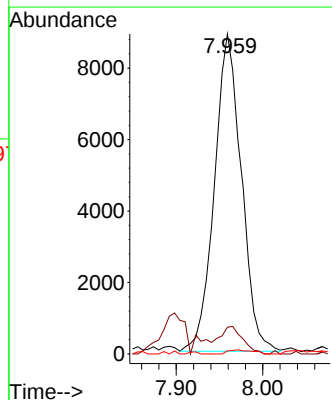
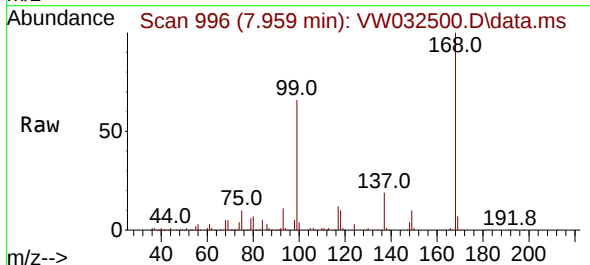
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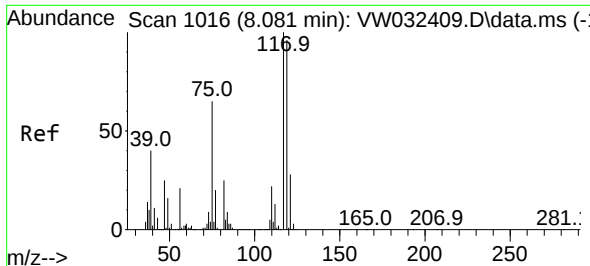
Tgt Ion:113 Resp: 116893
Ion Ratio Lower Upper
113 100
111 103.3 83.1 124.7
192 16.7 13.4 20.2



#36
1,1-Dichloropropene
Concen: 4.478 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.140 min
Lab File: VW032500.D
Acq: 19 Nov 2025 14:20

Tgt Ion: 75 Resp: 19223
Ion Ratio Lower Upper
75 100
110 7.4 17.2 51.5#
77 1.2 24.5 36.7#

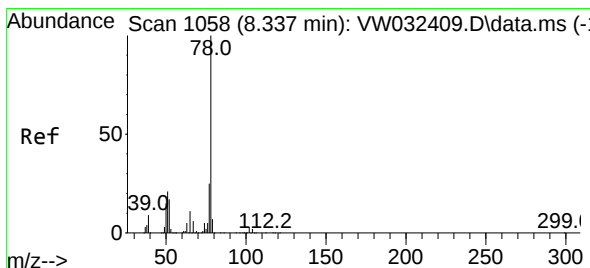
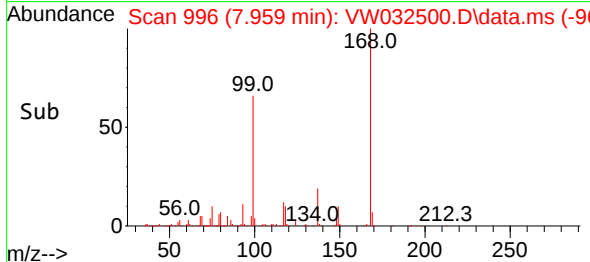
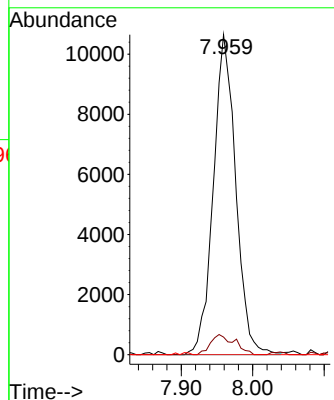
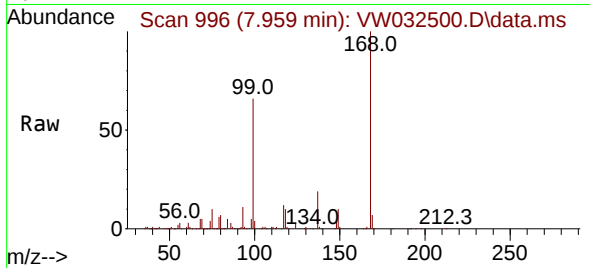




#38
Carbon Tetrachloride
Concen: 6.072 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.122 min
Lab File: VW032500.D
Acq: 19 Nov 2025 14:20

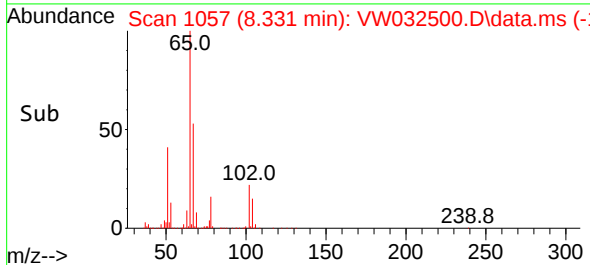
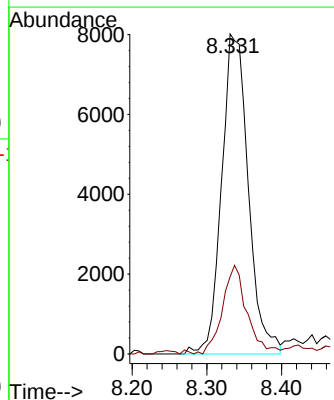
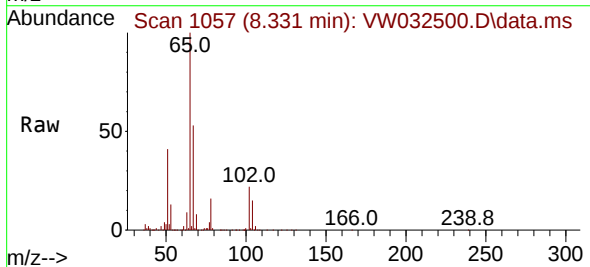
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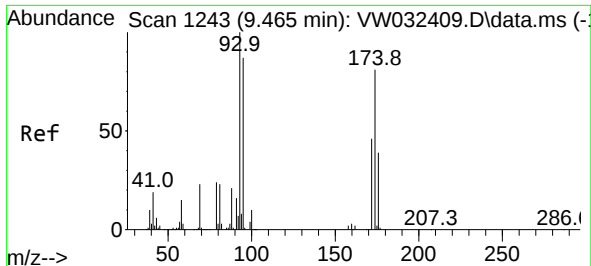
Tgt Ion:117 Resp: 23157
Ion Ratio Lower Upper
117 100
119 5.5 77.0 115.4#
121 0.0 22.0 33.0#



#40
Benzene
Concen: 1.438 ug/l
RT: 8.331 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VW032500.D
Acq: 19 Nov 2025 14:20

Tgt Ion: 78 Resp: 19884
Ion Ratio Lower Upper
78 100
77 24.2 19.6 29.4





#49

1,4-Dioxane

Concen: 1.845 ug/l

RT: 9.471 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW032500.D

Acq: 19 Nov 2025 14:20

Instrument :

MSVOA_W

ClientSampleId :

ARS20-0001

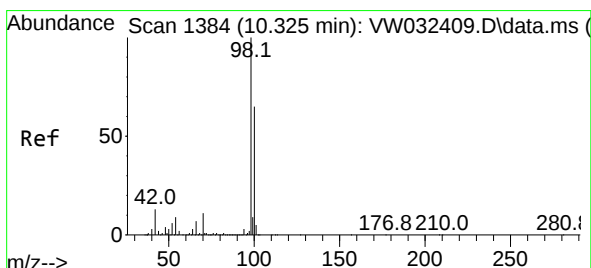
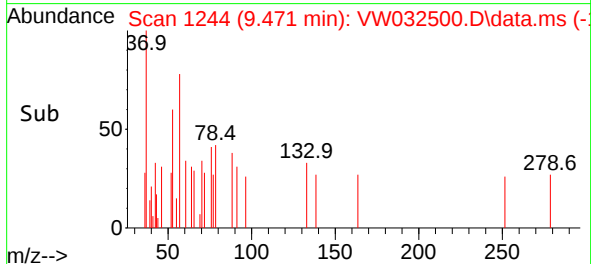
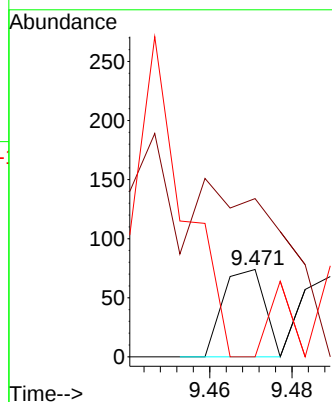
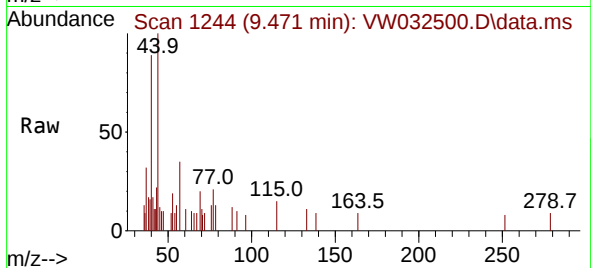
Tgt Ion: 88 Resp: 52

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 63.0 94.4#



#50

Toluene-d8

Concen: 45.822 ug/l

RT: 10.325 min Scan# 1384

Delta R.T. -0.000 min

Lab File: VW032500.D

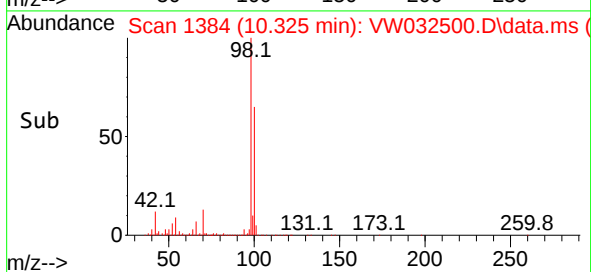
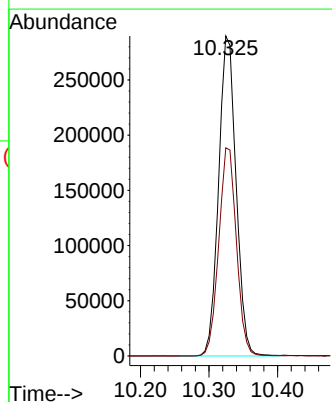
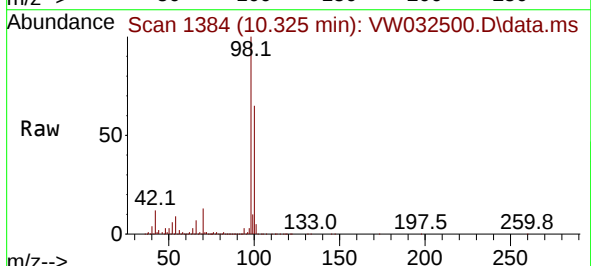
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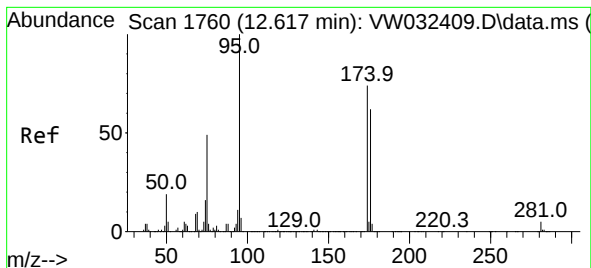
Tgt Ion: 98 Resp: 512116

Ion Ratio Lower Upper

98 100

100 65.8 53.3 79.9

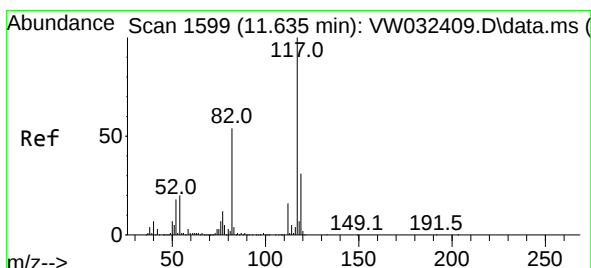
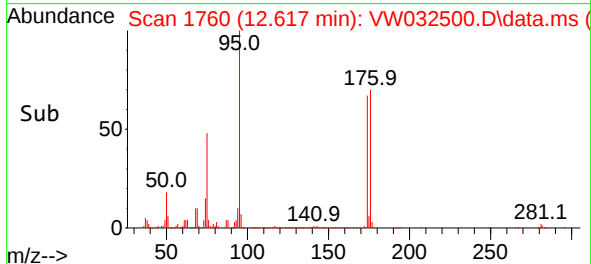
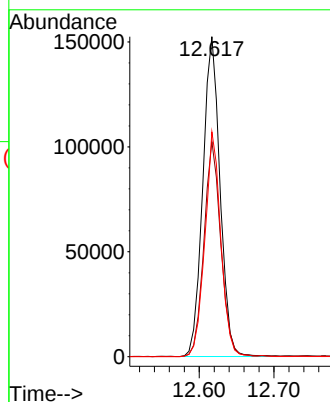
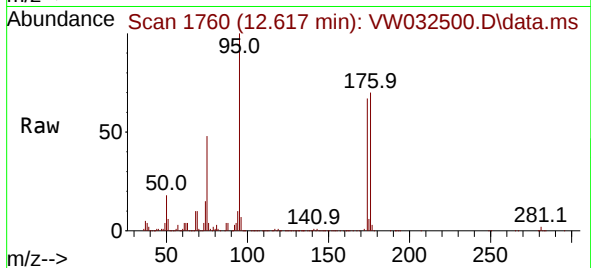




#62
4-Bromofluorobenzene
Concen: 57.665 ug/l
RT: 12.617 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032500.D
Acq: 19 Nov 2025 14:20

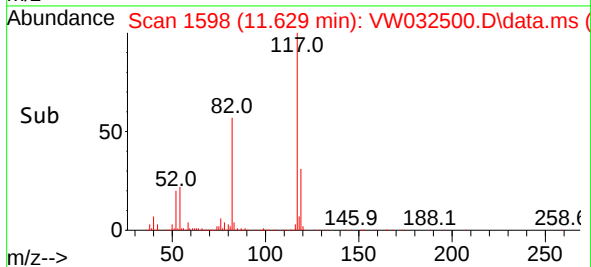
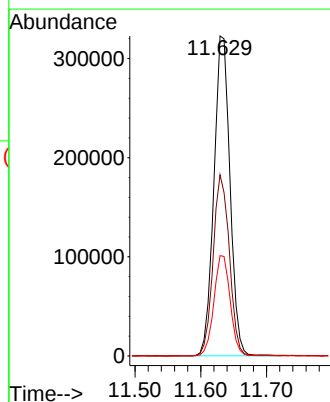
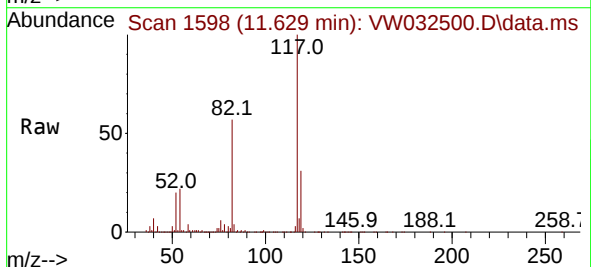
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0001

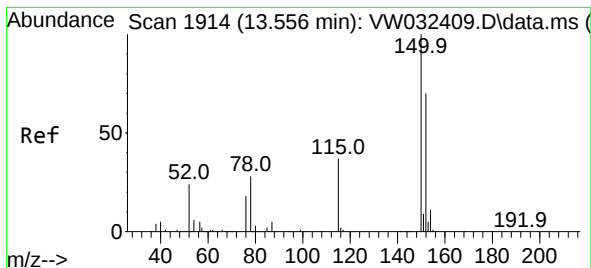
Tgt Ion: 95 Resp: 243456
Ion Ratio Lower Upper
95 100
174 66.1 0.0 135.4
176 65.3 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032500.D
Acq: 19 Nov 2025 14:20

Tgt Ion: 117 Resp: 551059
Ion Ratio Lower Upper
117 100
82 56.6 43.0 64.4
119 31.3 25.0 37.6

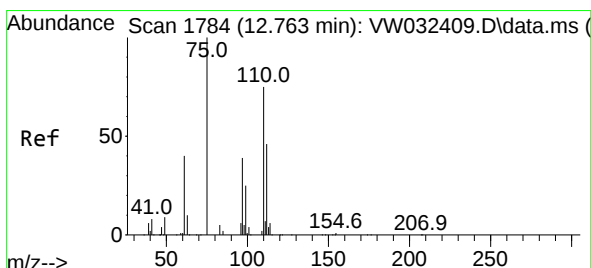
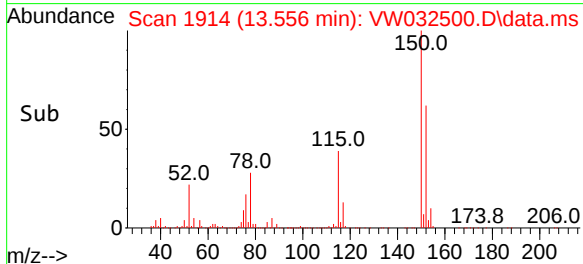
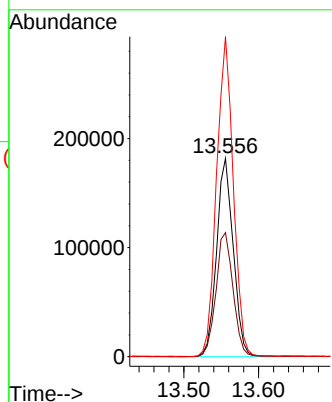
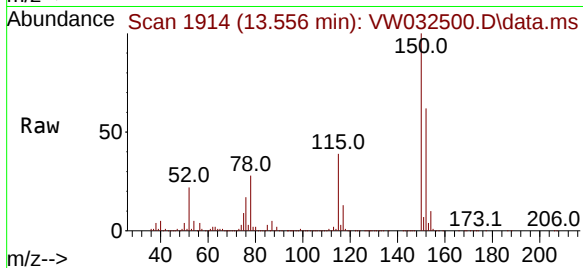




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032500.D
Acq: 19 Nov 2025 14:20

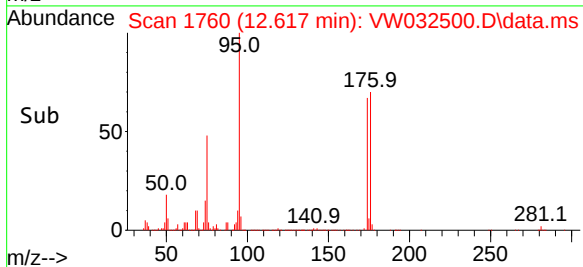
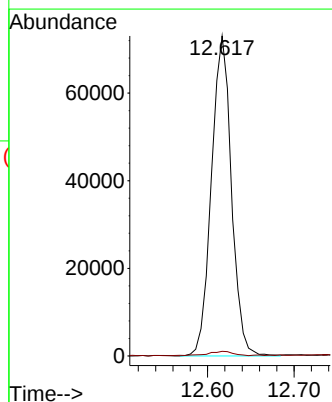
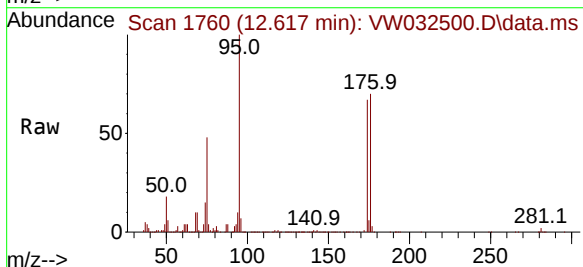
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0001

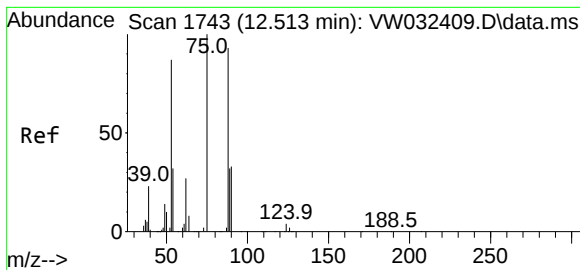
Tgt Ion:152 Resp: 281844
Ion Ratio Lower Upper
152 100
115 63.8 32.8 98.3
150 161.8 0.0 356.6



#76
1,2,3-Trichloropropane
Concen: 30.380 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032500.D
Acq: 19 Nov 2025 14:20

Tgt Ion: 75 Resp: 117404
Ion Ratio Lower Upper
75 100
77 1.8 151.6 454.8#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.583 ug/l
 RT: 12.617 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VW032500.D
 Acq: 19 Nov 2025 14:20

Instrument :
 MSVOA_W
 ClientSampleId :
 ARS20-0001

Tgt Ion: 75 Resp: 117404
 Ion Ratio Lower Upper
 75 100
 53 0.2 77.8 116.8#
 89 0.0 35.6 53.4#

