

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111825\
 Data File : VW032482.D
 Acq On : 18 Nov 2025 15:30
 Operator : SY/MD
 Sample : Q3649-04
 Misc : 6.06g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

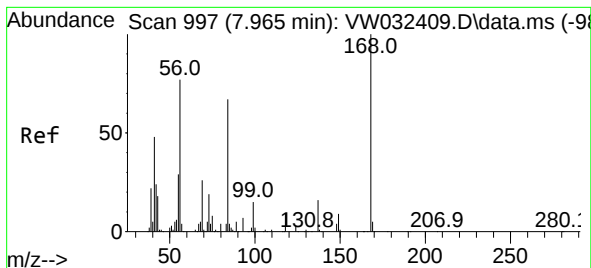
Instrument :
 MSVOA_W
 ClientSampleId :
 DUPE-0.5-1.0-20251114

Quant Time: Nov 19 00:28:58 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	231495	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	566274	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	606488	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	290144	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	179818	60.250	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 120.500%		
35) Dibromofluoromethane	7.898	113	54114	15.961	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 31.920%#		
50) Toluene-d8	10.325	98	614723	47.262	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 94.520%		
62) 4-Bromofluorobenzene	12.617	95	273656	55.695	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 111.400%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.204	59	471	1.825	ug/l #	51
16) Acetone	4.161	43	90898	101.801	ug/l	99
17) Carbon Disulfide	4.423	76	20360	2.768	ug/l	98
18) Methyl Acetate	4.716	43	3116	1.409	ug/l	96
20) Methylene Chloride	4.954	84	14878	4.659	ug/l	96
25) 2-Butanone	7.203	43	19693	14.970	ug/l	94
31) Cyclohexane	7.953	56	5997	1.215	ug/l #	1
36) 1,1-Dichloropropene	7.959	75	22020	4.408	ug/l #	51
37) Ethyl Acetate	7.203	43	19693	5.302	ug/l #	70
38) Carbon Tetrachloride	7.959	117	25538	5.754	ug/l #	17
49) 1,4-Dioxane	9.495	88	40	1.220	ug/l #	10
76) 1,2,3-Trichloropropane	12.617	75	136156	34.224	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	136156	78.389	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.959 min Scan# 99

Delta R.T. -0.006 min

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MSVOA_W

ClientSampleId :

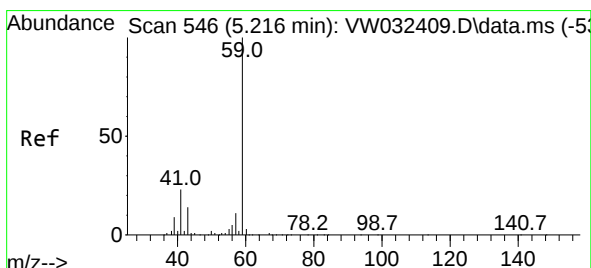
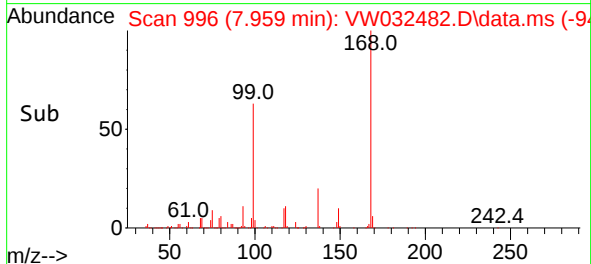
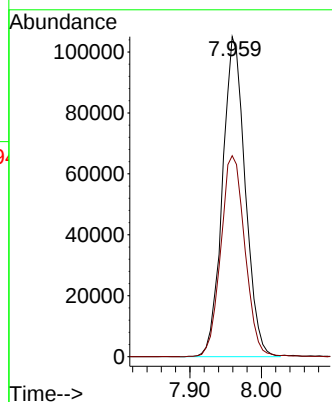
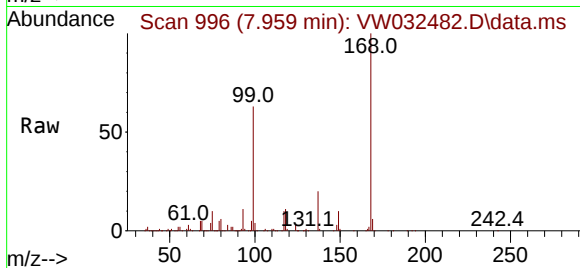
DUPE-0.5-1.0-20251114

Tgt Ion:168 Resp: 231495

Ion Ratio Lower Upper

168 100

99 62.8 45.4 68.2



#11

Tert butyl alcohol

Concen: 1.825 ug/l

RT: 5.204 min Scan# 544

Delta R.T. -0.012 min

Lab File: VW032482.D

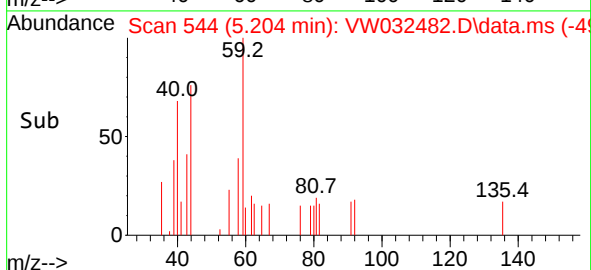
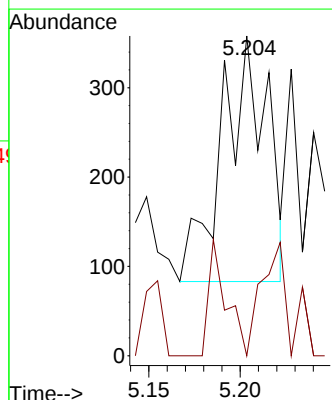
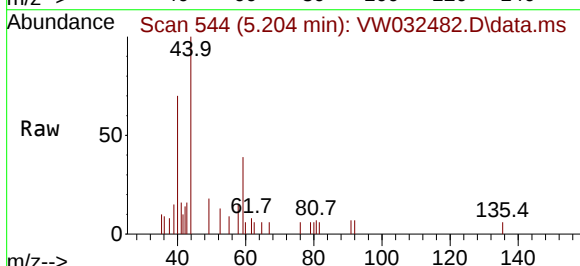
Acq: 18 Nov 2025 15:30

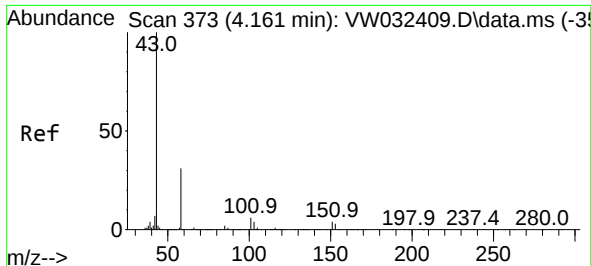
Tgt Ion: 59 Resp: 471

Ion Ratio Lower Upper

59 100

57 29.1 8.6 12.8#

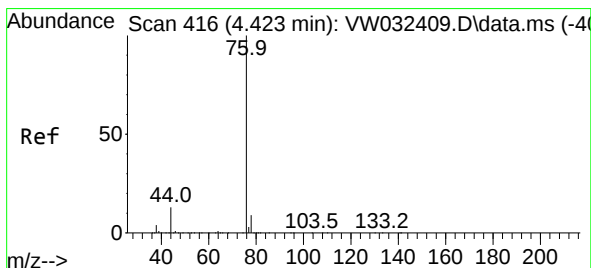
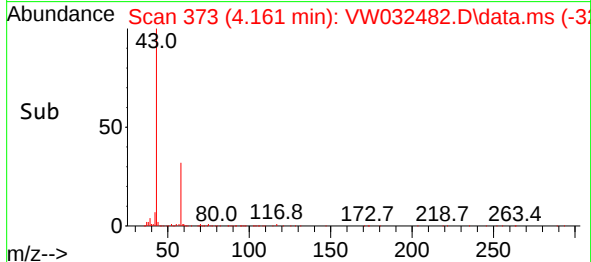
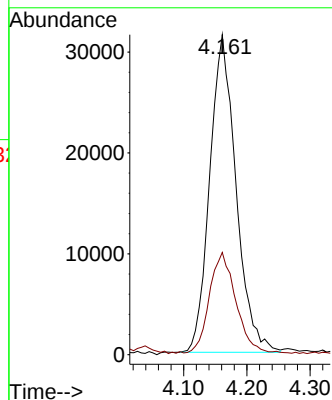
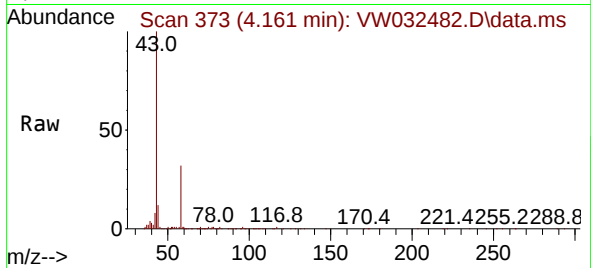




#16
Acetone
Concen: 101.801 ug/l
RT: 4.161 min Scan# 373
Delta R.T. 0.000 min
Lab File: VW032482.D
Acq: 18 Nov 2025 15:30

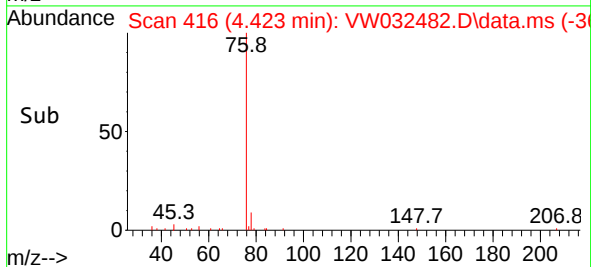
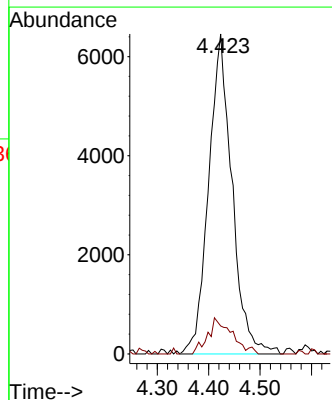
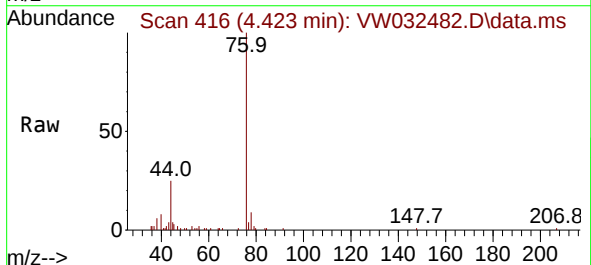
Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

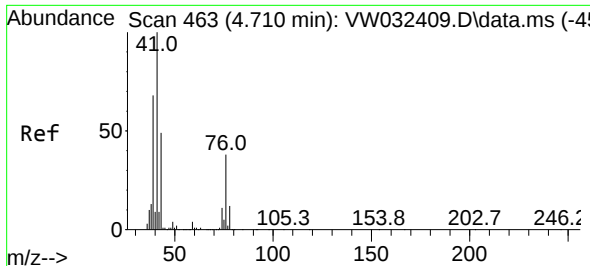
Tgt Ion: 43 Resp: 90898
Ion Ratio Lower Upper
43 100
58 31.4 24.8 37.2



#17
Carbon Disulfide
Concen: 2.768 ug/l
RT: 4.423 min Scan# 416
Delta R.T. 0.000 min
Lab File: VW032482.D
Acq: 18 Nov 2025 15:30

Tgt Ion: 76 Resp: 20360
Ion Ratio Lower Upper
76 100
78 8.8 7.6 11.4

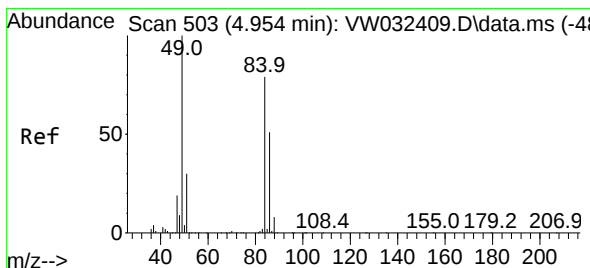
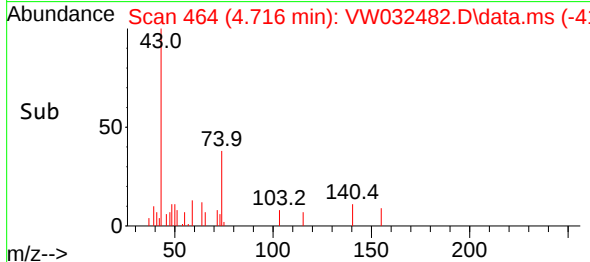
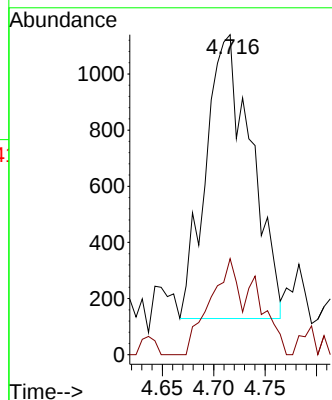
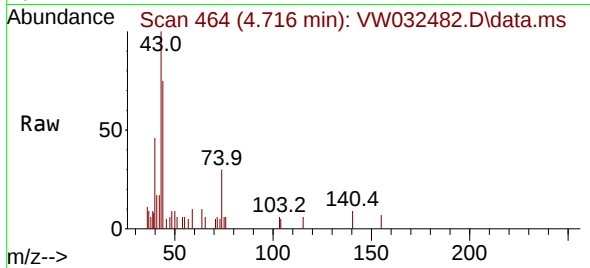




#18
Methyl Acetate
Concen: 1.409 ug/l
RT: 4.716 min Scan# 41
Delta R.T. 0.006 min
Lab File: VW032482.D
Acq: 18 Nov 2025 15:30

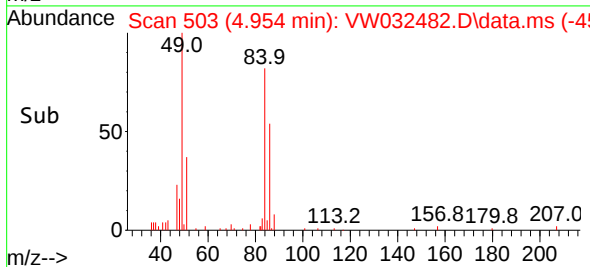
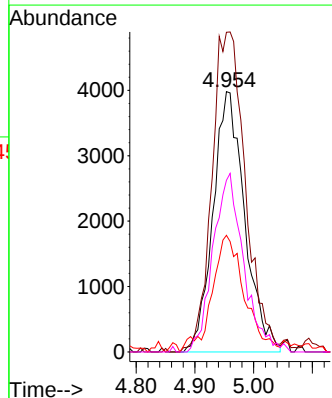
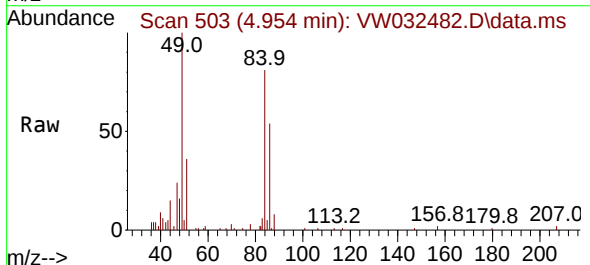
Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

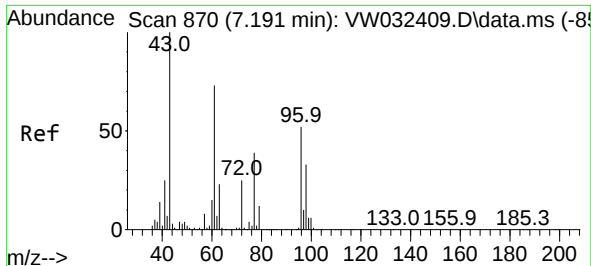
Tgt Ion: 43 Resp: 3116
Ion Ratio Lower Upper
43 100
74 21.5 18.9 28.3



#20
Methylene Chloride
Concen: 4.659 ug/l
RT: 4.954 min Scan# 503
Delta R.T. 0.000 min
Lab File: VW032482.D
Acq: 18 Nov 2025 15:30

Tgt Ion: 84 Resp: 14878
Ion Ratio Lower Upper
84 100
49 122.8 101.5 152.3
51 44.8 30.6 46.0
86 65.9 51.9 77.9

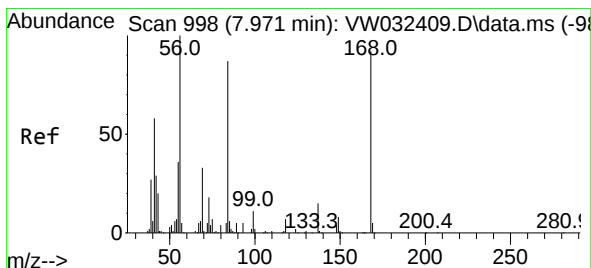
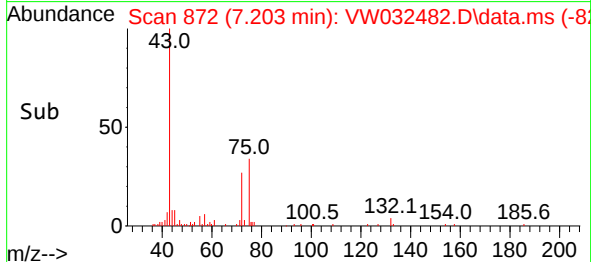
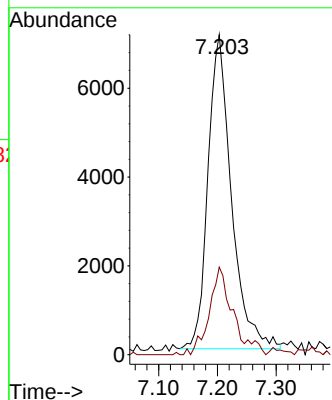
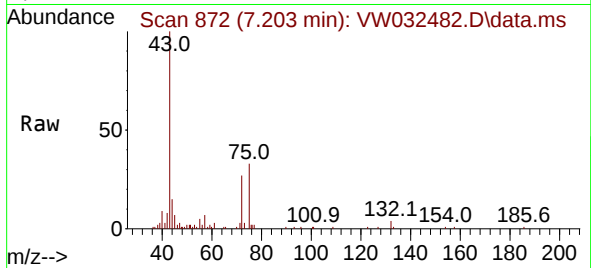




#25
2-Butanone
Concen: 14.970 ug/l
RT: 7.203 min Scan# 81
Delta R.T. 0.012 min
Lab File: VW032482.D
Acq: 18 Nov 2025 15:30

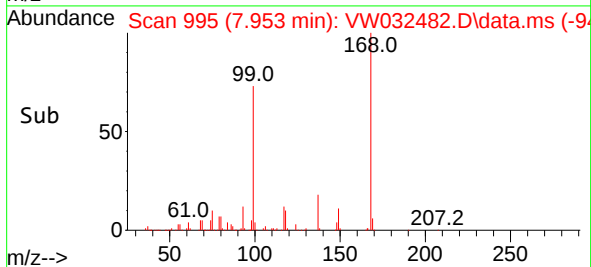
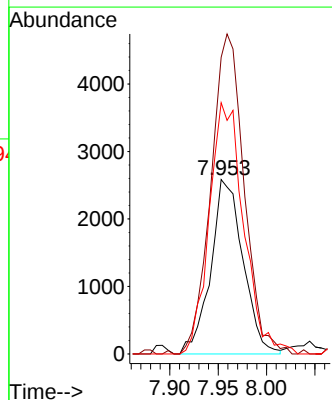
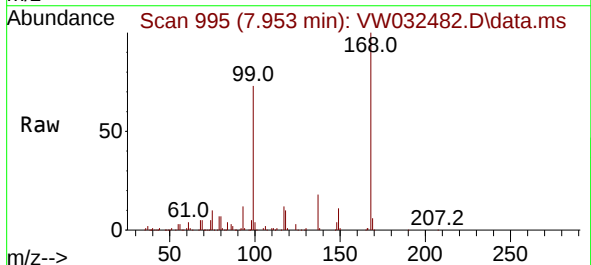
Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

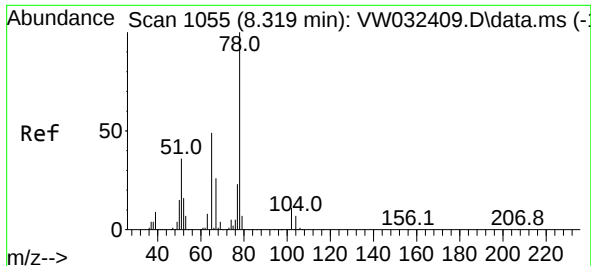
Tgt Ion: 43 Resp: 19693
Ion Ratio Lower Upper
43 100
72 27.9 20.0 30.0



#31
Cyclohexane
Concen: 1.215 ug/l
RT: 7.953 min Scan# 995
Delta R.T. -0.018 min
Lab File: VW032482.D
Acq: 18 Nov 2025 15:30

Tgt Ion: 56 Resp: 5997
Ion Ratio Lower Upper
56 100
69 170.1 26.5 39.7#
84 144.1 69.6 104.4#

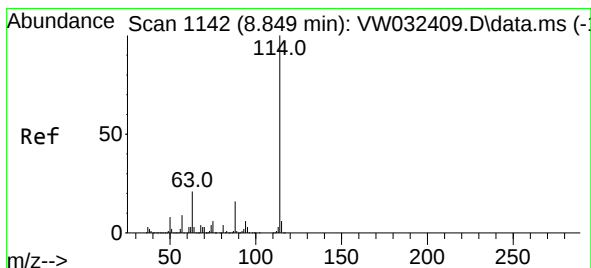
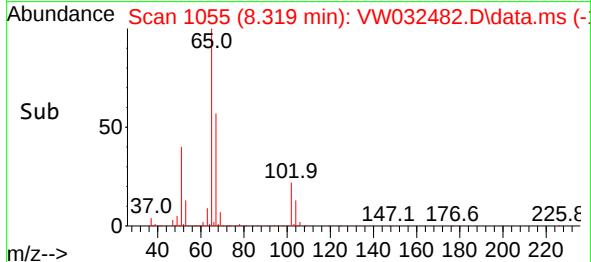
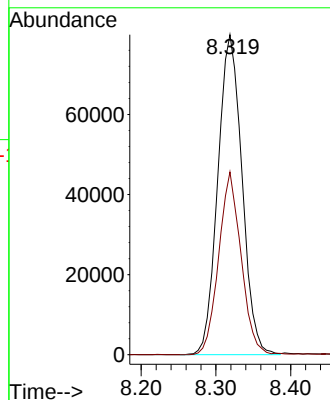
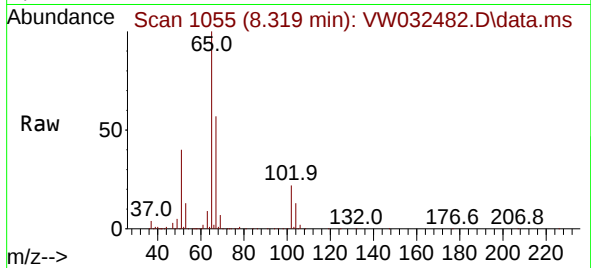




#33
 1,2-Dichloroethane-d4
 Concen: 60.250 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: VW032482.D
 Acq: 18 Nov 2025 15:30

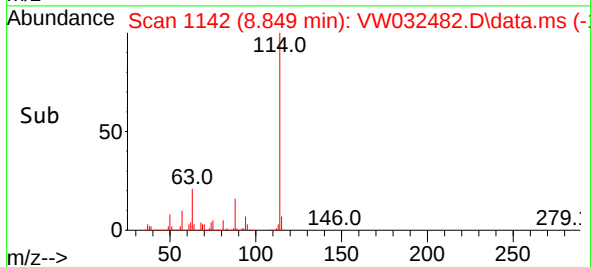
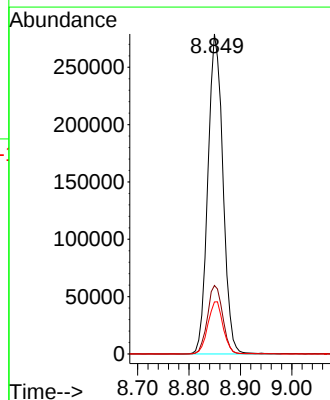
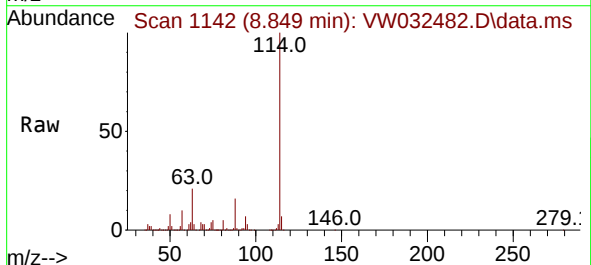
Instrument :
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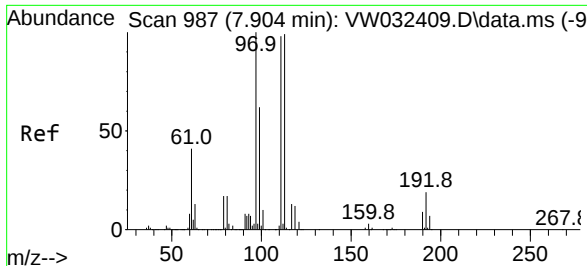
Tgt Ion: 65 Resp: 179818
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.849 min Scan# 1142
 Delta R.T. 0.000 min
 Lab File: VW032482.D
 Acq: 18 Nov 2025 15:30

Tgt Ion: 114 Resp: 566274
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 41.8
 88 16.3 0.0 32.6

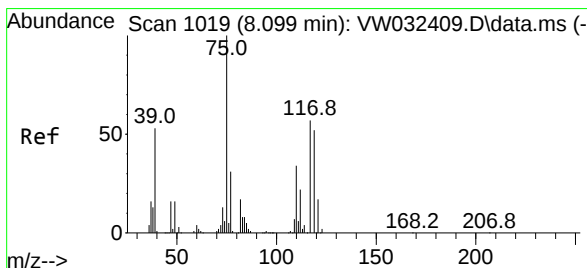
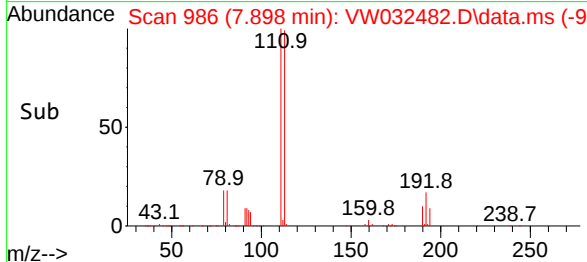
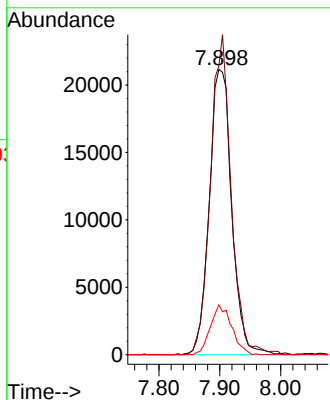
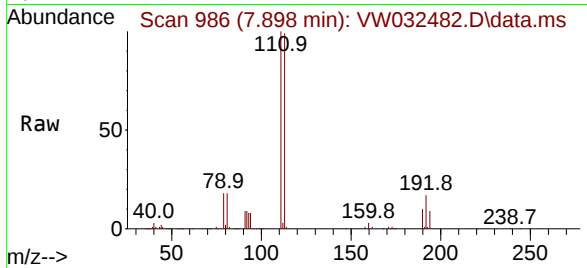




#35
 Dibromofluoromethane
 Concen: 15.961 ug/l
 RT: 7.898 min Scan# 911
 Delta R.T. -0.006 min
 Lab File: VW032482.D
 Acq: 18 Nov 2025 15:30

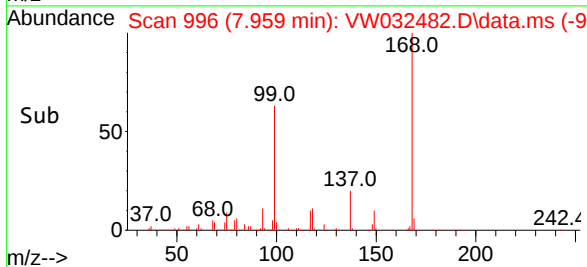
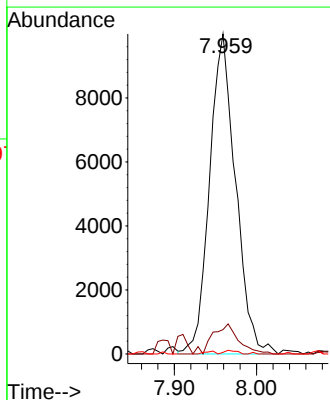
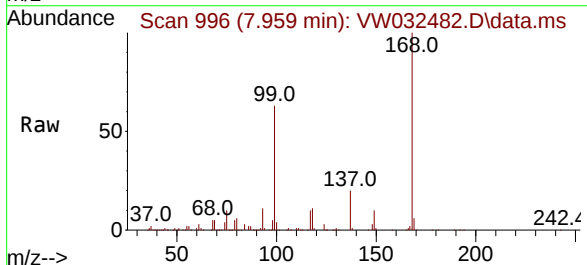
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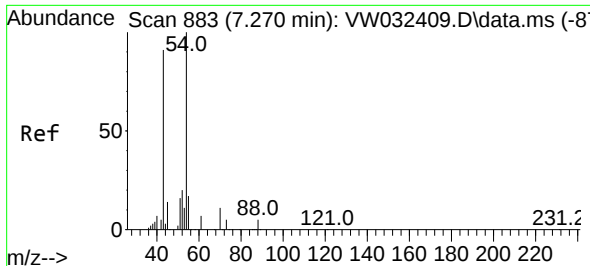
Tgt Ion:113 Resp: 54114
 Ion Ratio Lower Upper
 113 100
 111 103.6 83.1 124.7
 192 16.6 13.4 20.2



#36
 1,1-Dichloropropene
 Concen: 4.408 ug/l
 RT: 7.959 min Scan# 996
 Delta R.T. -0.140 min
 Lab File: VW032482.D
 Acq: 18 Nov 2025 15:30

Tgt Ion: 75 Resp: 22020
 Ion Ratio Lower Upper
 75 100
 110 9.4 17.2 51.5#
 77 0.5 24.5 36.7#

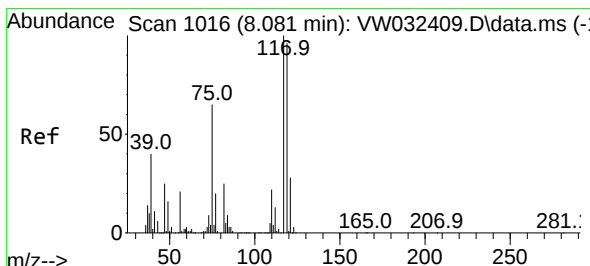
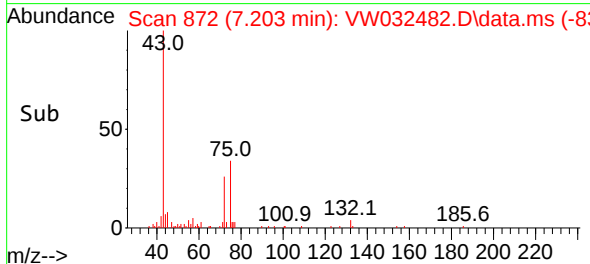
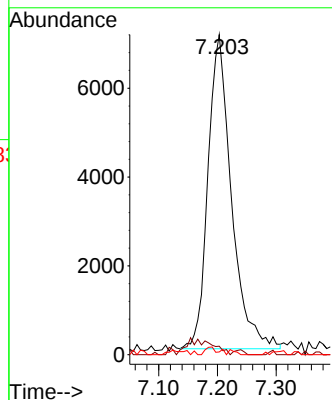
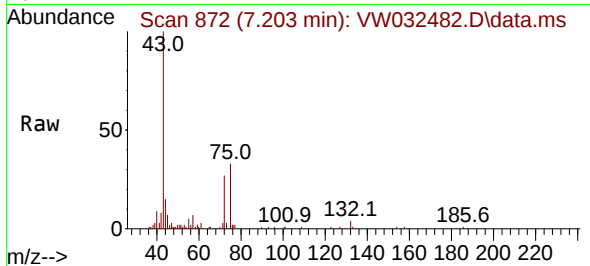




#37
Ethyl Acetate
Concen: 5.302 ug/l
RT: 7.203 min Scan# 81
Delta R.T. -0.067 min
Lab File: VW032482.D
Acq: 18 Nov 2025 15:30

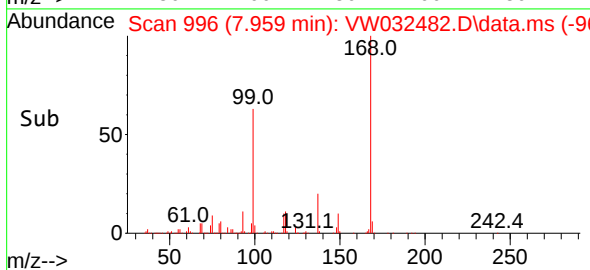
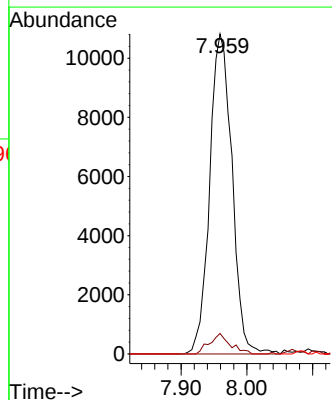
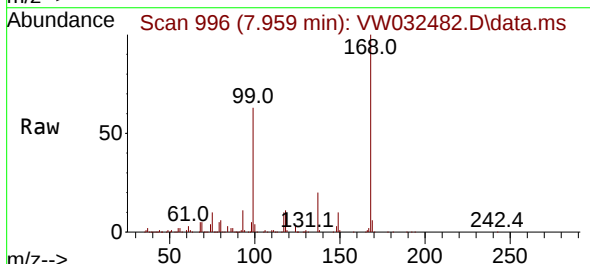
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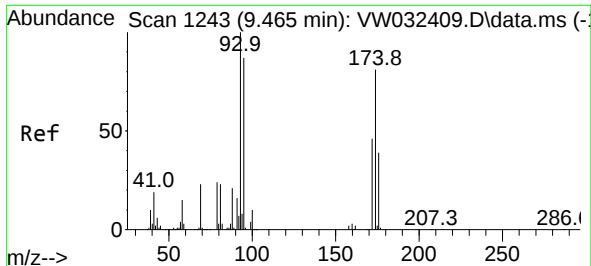
Tgt Ion: 43 Resp: 19693
Ion Ratio Lower Upper
43 100
61 0.0 11.0 16.6#
70 1.0 8.3 12.5#



#38
Carbon Tetrachloride
Concen: 5.754 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.122 min
Lab File: VW032482.D
Acq: 18 Nov 2025 15:30

Tgt Ion: 117 Resp: 25538
Ion Ratio Lower Upper
117 100
119 6.4 77.0 115.4#
121 0.0 22.0 33.0#

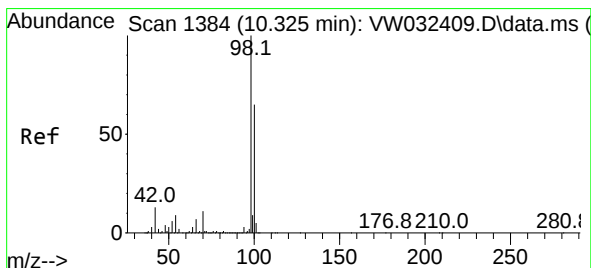
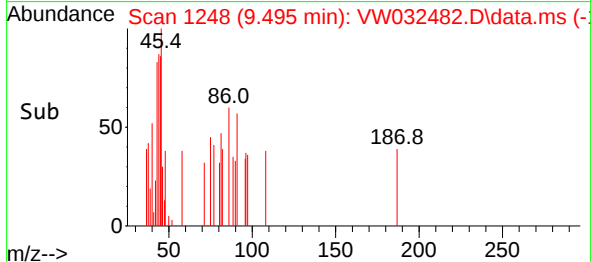
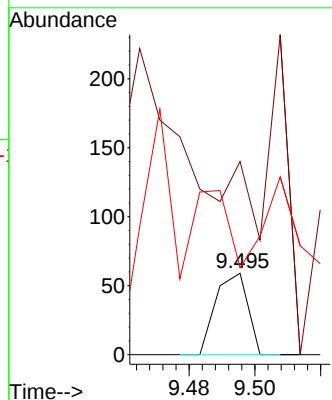
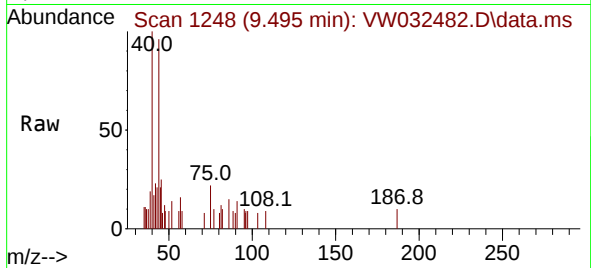




#49
1,4-Dioxane
Concen: 1.220 ug/l
RT: 9.495 min Scan# 1248
Delta R.T. 0.030 min
Lab File: VW032482.D
Acq: 18 Nov 2025 15:30

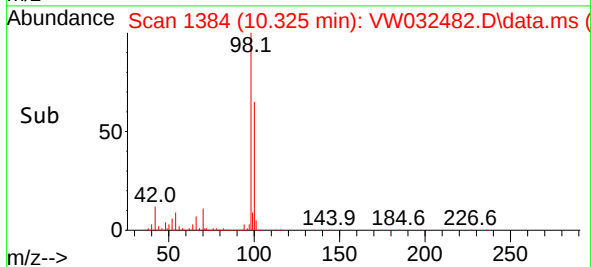
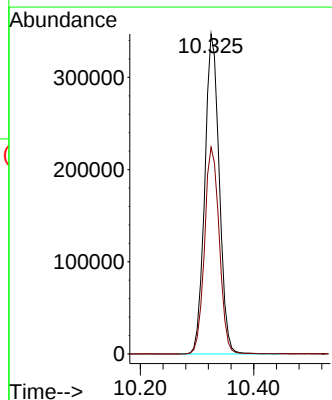
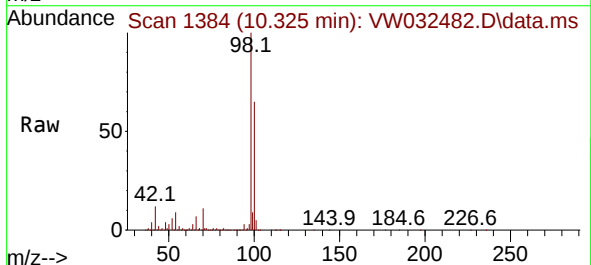
Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

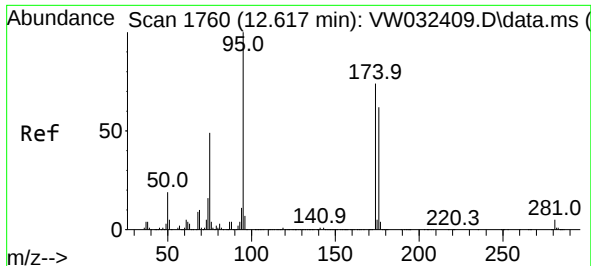
Tgt Ion: 88 Resp: 40
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 0.0 63.0 94.4#



#50
Toluene-d8
Concen: 47.262 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032482.D
Acq: 18 Nov 2025 15:30

Tgt Ion: 98 Resp: 614723
Ion Ratio Lower Upper
98 100
100 65.7 53.3 79.9

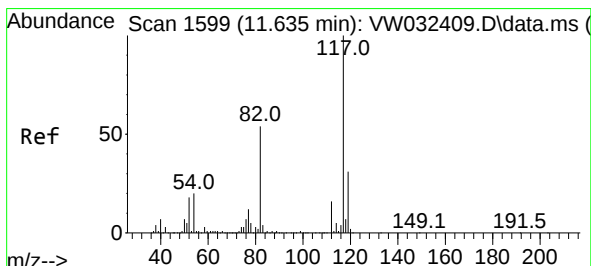
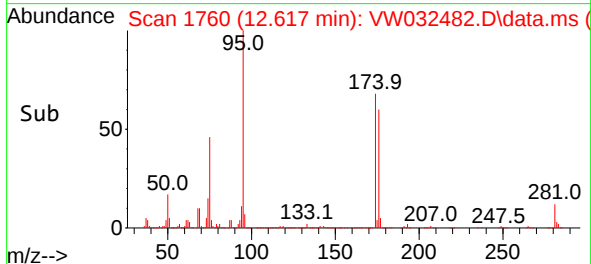
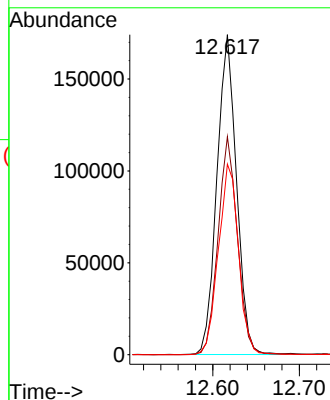
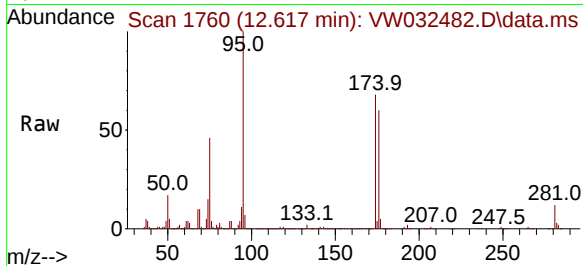




#62
4-Bromofluorobenzene
Concen: 55.695 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032482.D
Acq: 18 Nov 2025 15:30

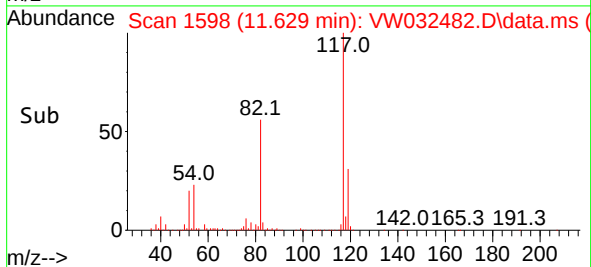
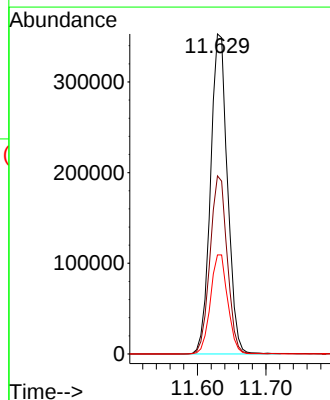
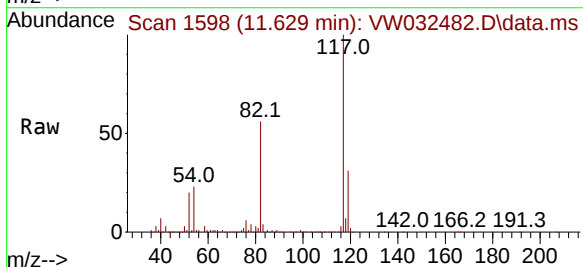
Instrument :
MSVOA_W
ClientSampleId :
DUPE-0.5-1.0-20251114

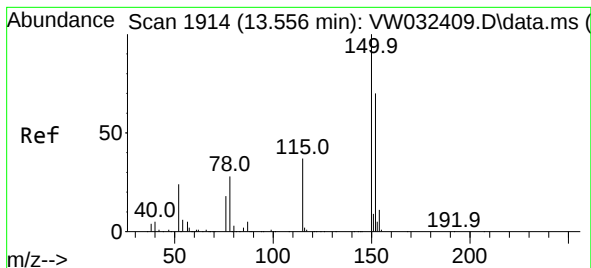
Tgt Ion: 95 Resp: 273656
Ion Ratio Lower Upper
95 100
174 67.4 0.0 135.4
176 61.6 0.0 131.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.629 min Scan# 1598
Delta R.T. -0.006 min
Lab File: VW032482.D
Acq: 18 Nov 2025 15:30

Tgt Ion: 117 Resp: 606488
Ion Ratio Lower Upper
117 100
82 55.7 43.0 64.4
119 30.9 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: VW032482.D

Acq: 18 Nov 2025 15:30

Instrument :

MSVOA_W

ClientSampleId :

DUPE-0.5-1.0-20251114

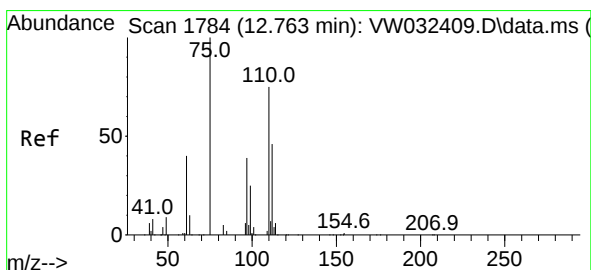
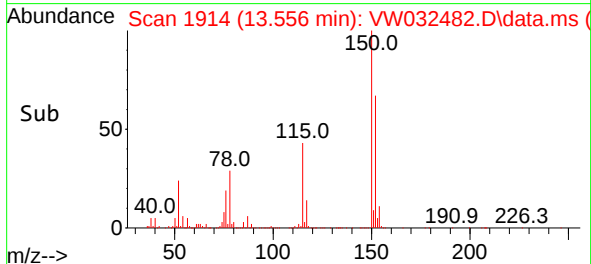
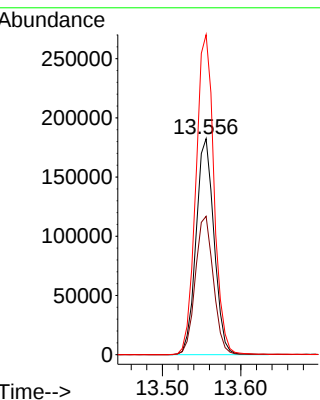
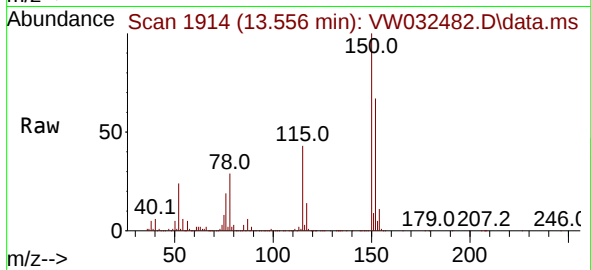
Tgt Ion:152 Resp: 290144

Ion Ratio Lower Upper

152 100

115 64.7 32.8 98.3

150 149.3 0.0 356.6



#76

1,2,3-Trichloropropane

Concen: 34.224 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. -0.146 min

Lab File: VW032482.D

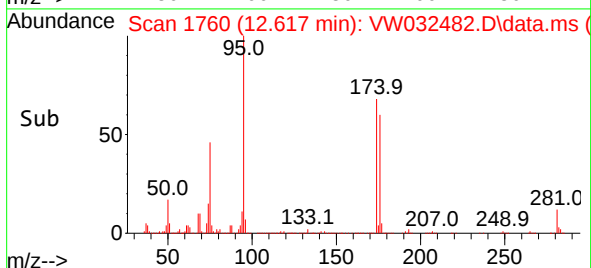
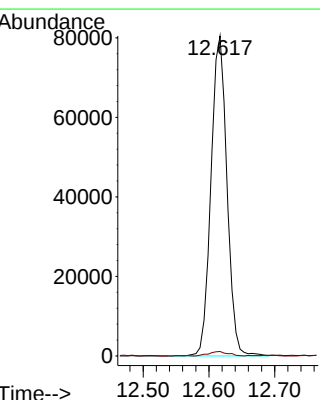
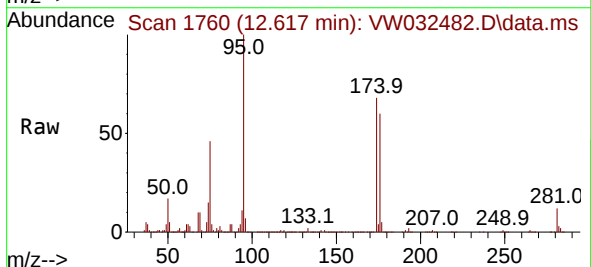
Acq: 18 Nov 2025 15:30

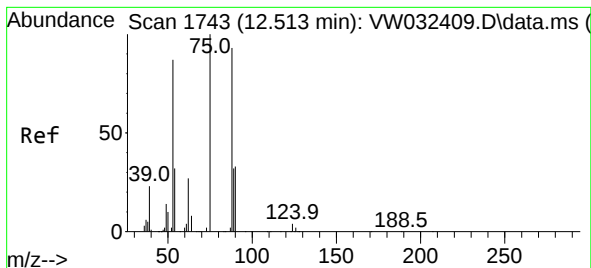
Tgt Ion: 75 Resp: 136156

Ion Ratio Lower Upper

75 100

77 1.7 151.6 454.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 78.389 ug/l

RT: 12.617 min Scan# 11

Delta R.T. 0.104 min

Lab File: VW032482.D

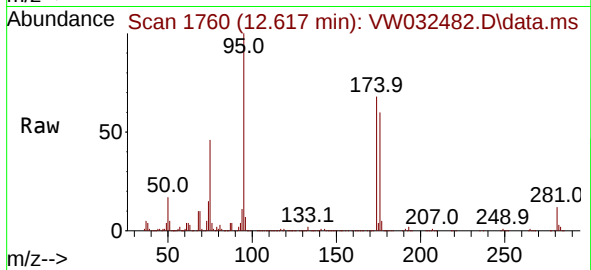
Acq: 18 Nov 2025 15:30

Instrument :

MSVOA_W

ClientSampleId :

DUPE-0.5-1.0-20251114



Tgt Ion: 75 Resp: 136156

Ion Ratio Lower Upper

75 100

53 0.4 77.8 116.8#

89 0.0 35.6 53.4#

