

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW100225\
 Data File : VW032333.D
 Acq On : 02 Oct 2025 15:25
 Operator : SY/MD
 Sample : Q3262-07
 Misc : 4.36g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Oct 02 22:11:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 02 21:24:16 2025
 Response via : Initial Calibration

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

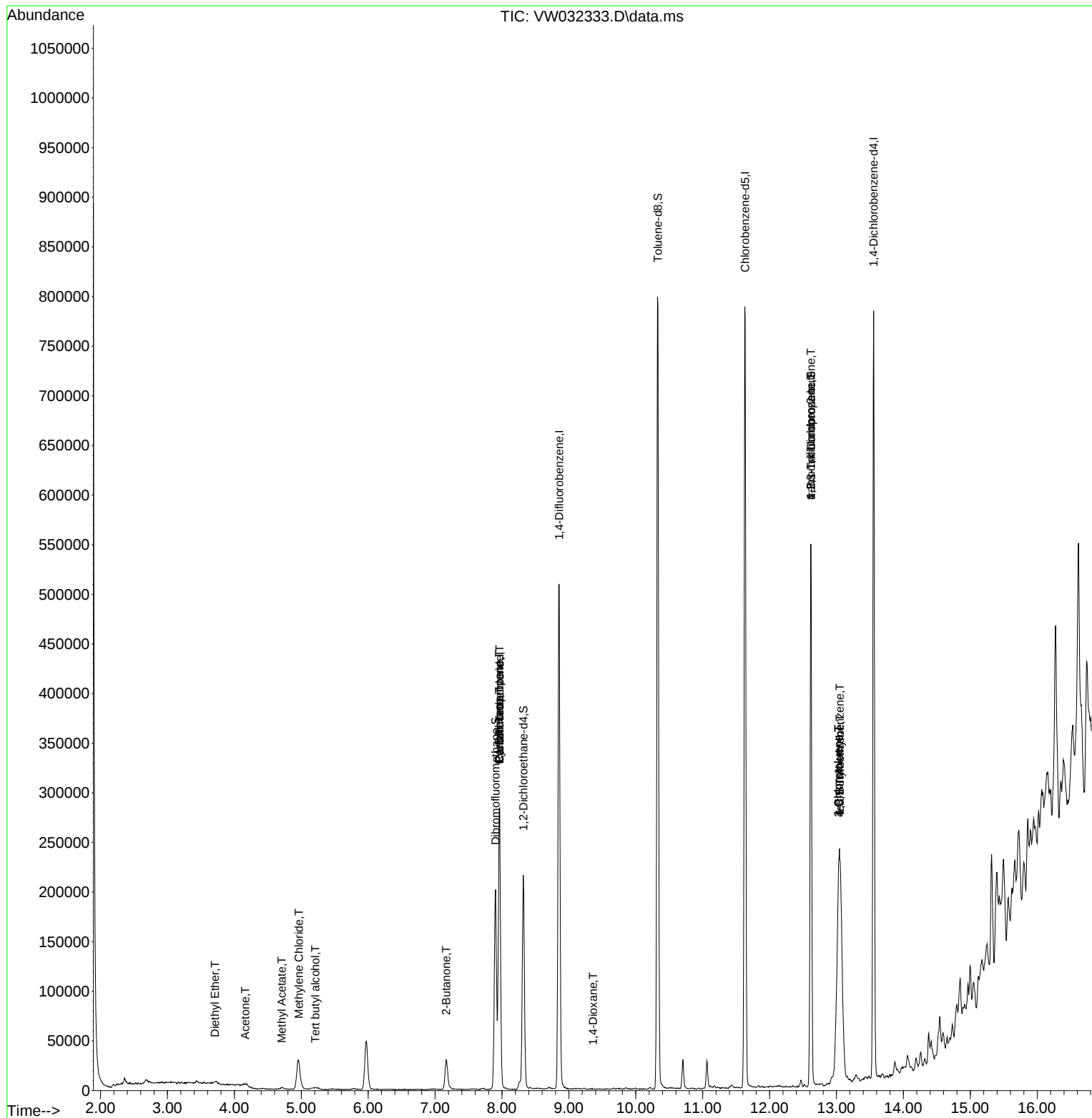
Internal Standards						
1) Pentafluorobenzene	7.965	168	193839	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	428594	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	438850	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	194227	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	177855	62.907	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 125.820%		
35) Dibromofluoromethane	7.904	113	143860	51.830	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 103.660%		
50) Toluene-d8	10.331	98	534566	52.182	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 104.360%		
62) 4-Bromofluorobenzene	12.617	95	194834	50.319	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 100.640%		
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.710	74	1572	1.081	ug/l	97
11) Tert butyl alcohol	5.210	59	2011	9.397	ug/l	97
16) Acetone	4.161	43	1826	2.333	ug/l #	62
18) Methyl Acetate	4.710	43	4113	1.834	ug/l	98
20) Methylene Chloride	4.966	84	25580	5.066	ug/l	96
25) 2-Butanone	7.167	43	2001	1.877	ug/l #	48
31) Cyclohexane	7.959	56	5255	1.320	ug/l #	10
36) 1,1-Dichloropropene	7.959	75	18595	4.747	ug/l #	50
38) Carbon Tetrachloride	7.965	117	22370	6.069	ug/l #	18
49) 1,4-Dioxane	9.361	88	40	1.553	ug/l #	1
76) 1,2,3-Trichloropropane	12.617	75	100063	39.149	ug/l #	1
79) 2-Chlorotoluene	13.031	91	44369	4.372	ug/l #	42
80) 1,3,5-Trimethylbenzene	13.050	105	19591	1.705	ug/l #	38
81) trans-1,4-Dichloro-2-b...	12.617	75	100063	99.176	ug/l #	5
82) 4-Chlorotoluene	13.031	91	44369	4.112	ug/l #	43
83) tert-Butylbenzene	13.050	119	14451	1.533	ug/l #	1

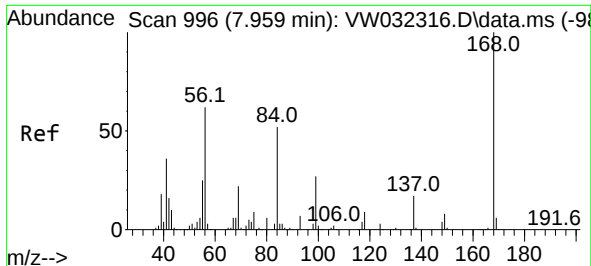
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VW032333.D
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Operator : SY/MD
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Misc : 4.36g/5mL/MSVOA_W/SOIL/A
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :

Quant Time: Oct 02 22:11:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W100125S.M
Quant Title : SW846 8260
QLast Update : Thu Oct 02 21:24:16 2025
Response via : Initial Calibration

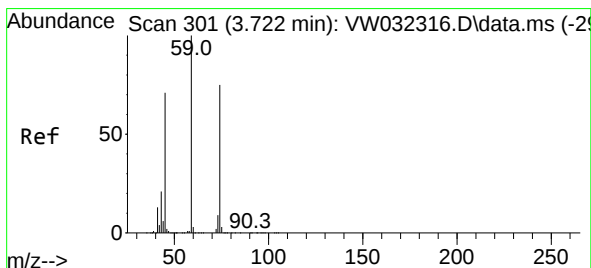
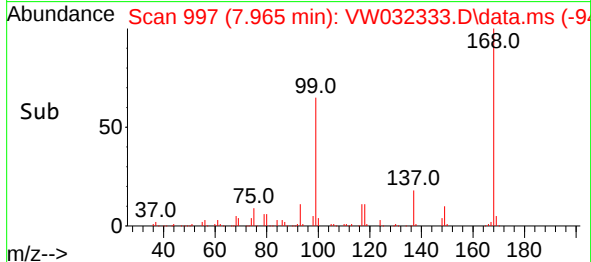
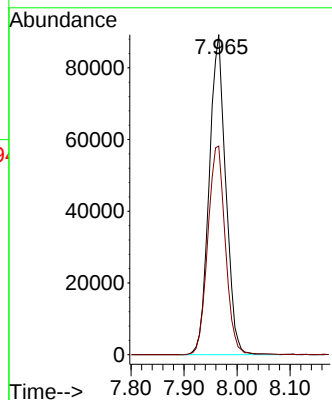
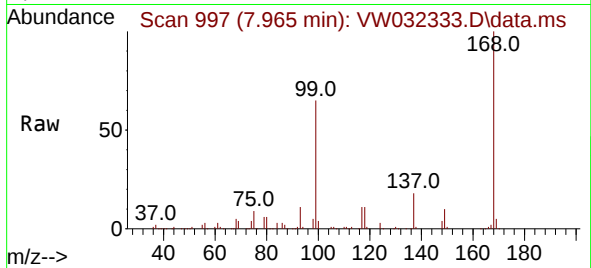




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 99
Delta R.T. 0.000 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

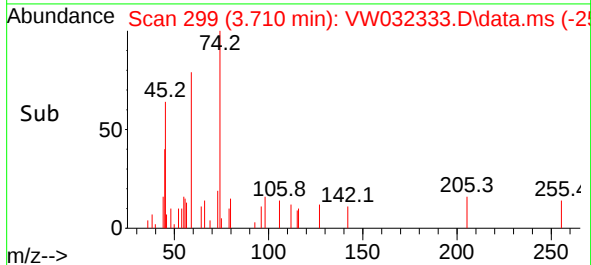
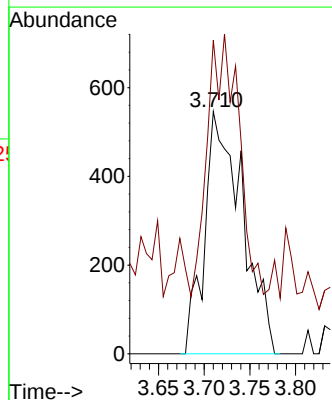
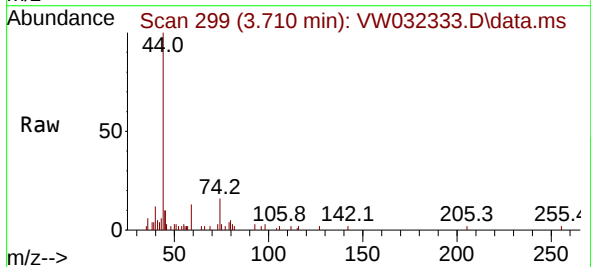
Instrument :
MSVOA_W
ClientSampleId :

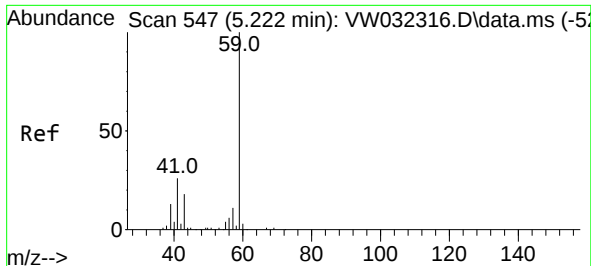
Tgt Ion:168 Resp: 193839
Ion Ratio Lower Upper
168 100
99 65.2 49.3 73.9



#8
Diethyl Ether
Concen: 1.081 ug/l
RT: 3.710 min Scan# 299
Delta R.T. -0.006 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

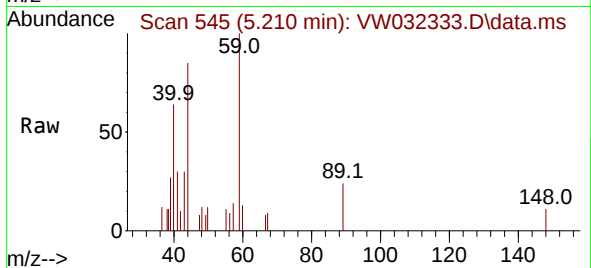
Tgt Ion: 74 Resp: 1572
Ion Ratio Lower Upper
74 100
45 89.2 43.1 129.4



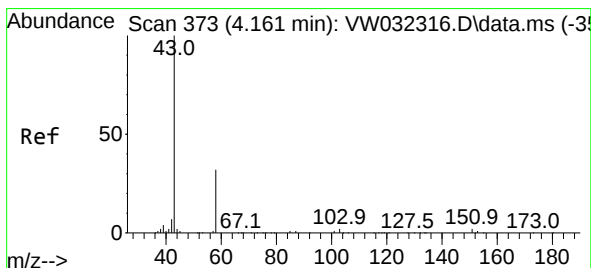
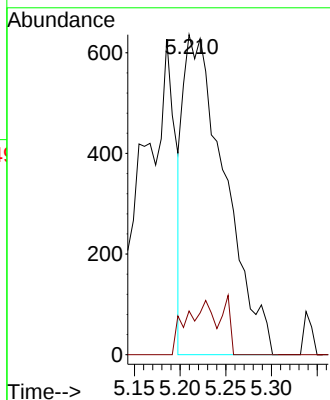
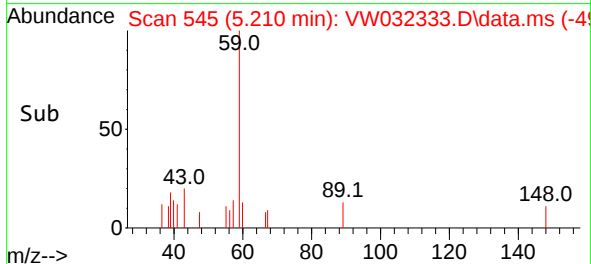


#11
Tert butyl alcohol
Concen: 9.397 ug/l
RT: 5.210 min Scan# 547
Delta R.T. -0.012 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

Instrument :
MSVOA_W
ClientSampleId :

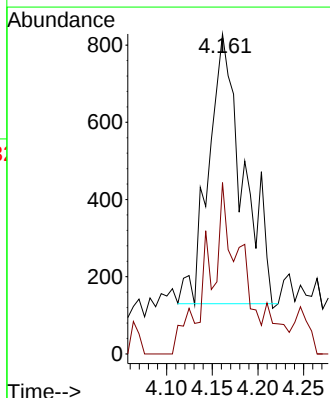
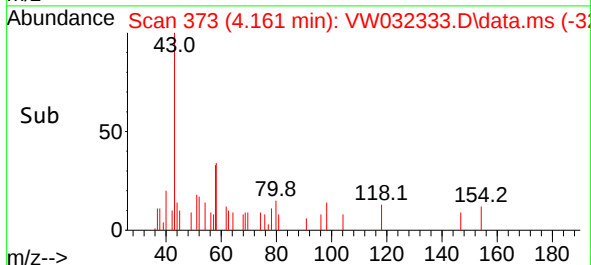
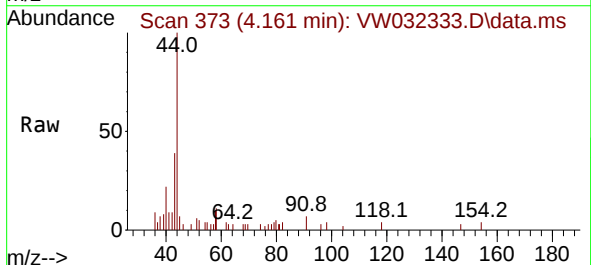


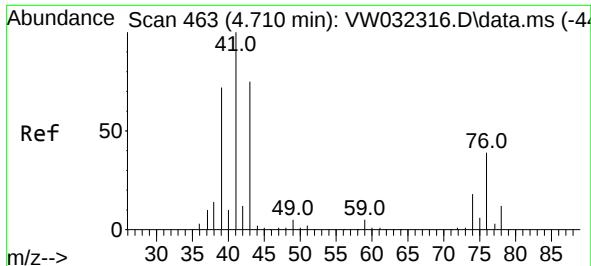
Tgt Ion: 59 Resp: 2011
Ion Ratio Lower Upper
59 100
57 11.1 9.8 14.6



#16
Acetone
Concen: 2.333 ug/l
RT: 4.161 min Scan# 373
Delta R.T. -0.000 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

Tgt Ion: 43 Resp: 1826
Ion Ratio Lower Upper
43 100
58 52.9 25.3 37.9#

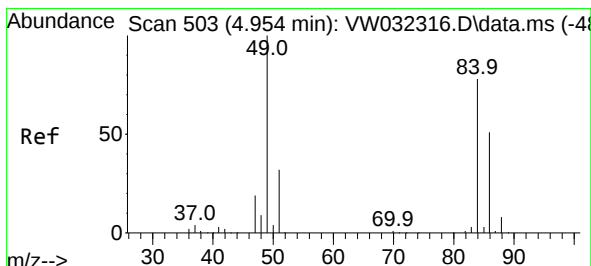
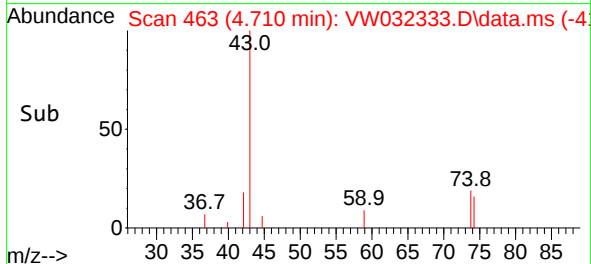
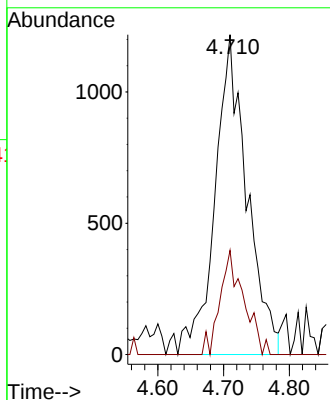
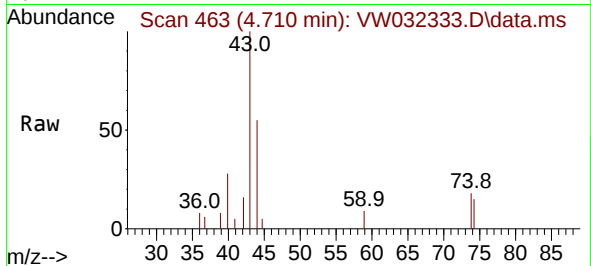




#18
Methyl Acetate
Concen: 1.834 ug/l
RT: 4.710 min Scan# 4113
Delta R.T. -0.000 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

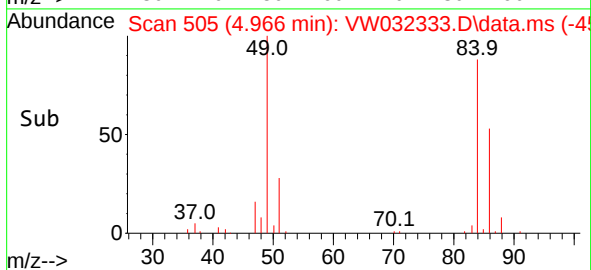
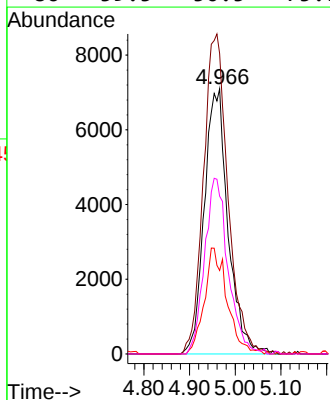
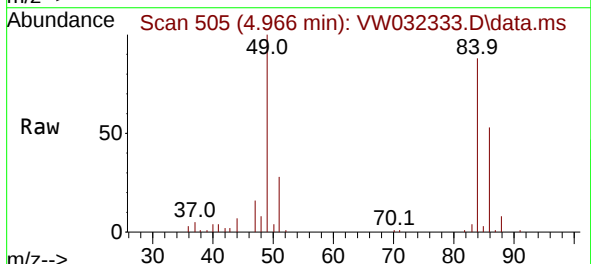
Instrument :
MSVOA_W
ClientSampleId :

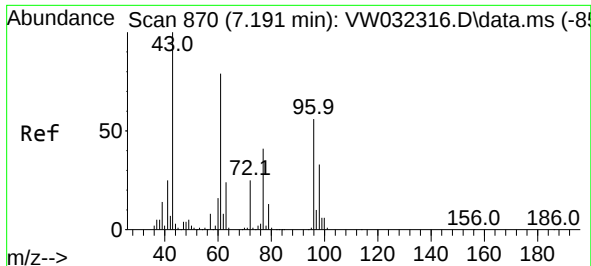
Tgt Ion: 43 Resp: 4113
Ion Ratio Lower Upper
43 100
74 24.3 20.2 30.4



#20
Methylene Chloride
Concen: 5.066 ug/l
RT: 4.966 min Scan# 505
Delta R.T. 0.006 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

Tgt Ion: 84 Resp: 25580
Ion Ratio Lower Upper
84 100
49 113.3 92.2 138.4
51 31.5 31.0 46.6
86 59.5 50.5 75.7

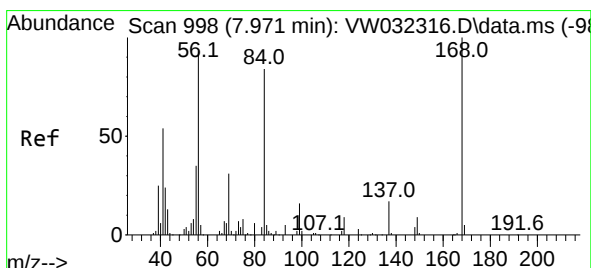
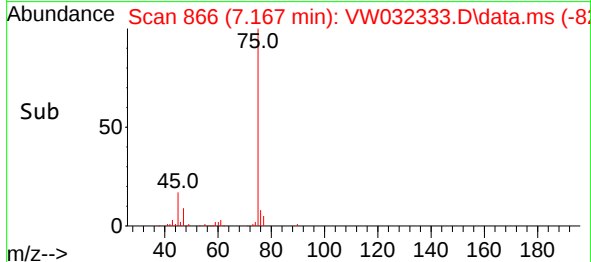
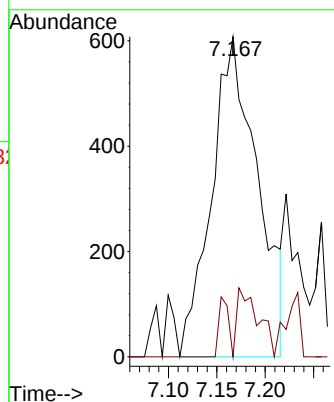
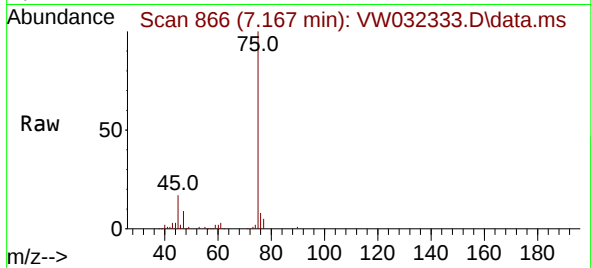




#25
2-Butanone
Concen: 1.877 ug/l
RT: 7.167 min Scan# 801
Delta R.T. -0.024 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

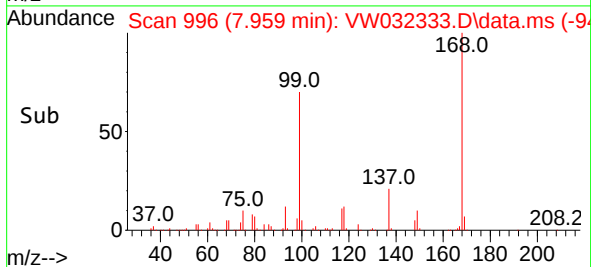
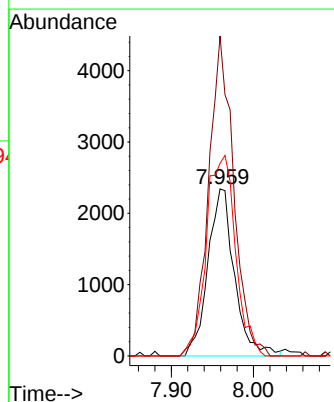
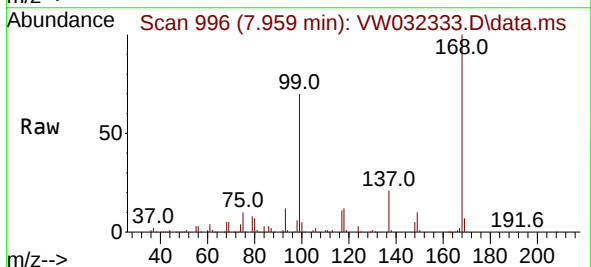
Instrument :
MSVOA_W
ClientSampleId :

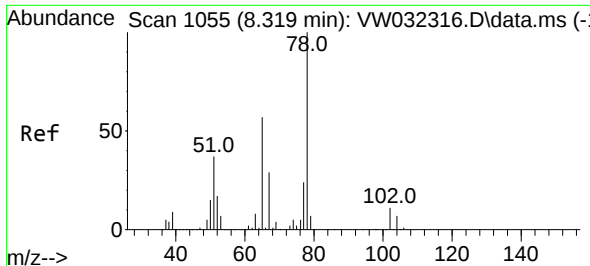
Tgt Ion: 43 Resp: 2001
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.2#



#31
Cyclohexane
Concen: 1.320 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

Tgt Ion: 56 Resp: 5255
Ion Ratio Lower Upper
56 100
69 191.7 27.7 41.5#
84 115.4 74.6 112.0#





#33

1,2-Dichloroethane-d4

Concen: 62.907 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. -0.000 min

Lab File: VW032333.D

Acq: 02 Oct 2025 15:25

Instrument :

MSVOA_W

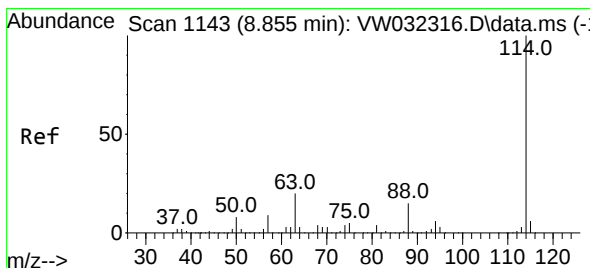
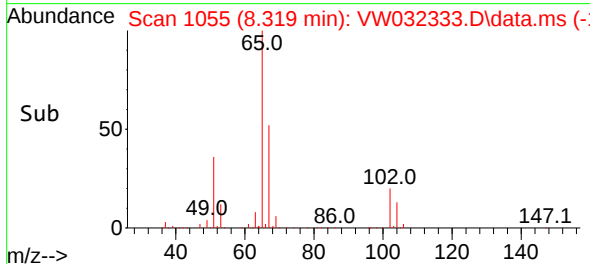
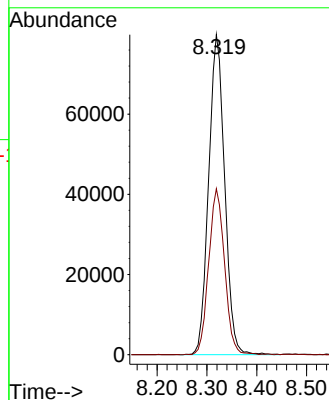
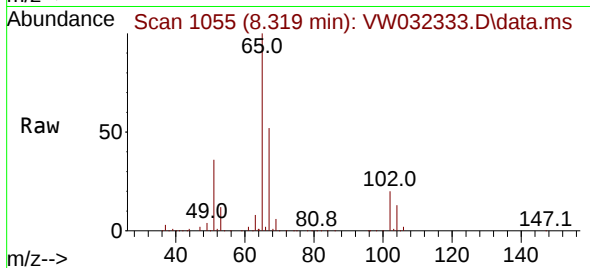
ClientSampleId :

Tgt Ion: 65 Resp: 177855

Ion Ratio Lower Upper

65 100

67 51.5 0.0 99.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1143

Delta R.T. -0.000 min

Lab File: VW032333.D

Acq: 02 Oct 2025 15:25

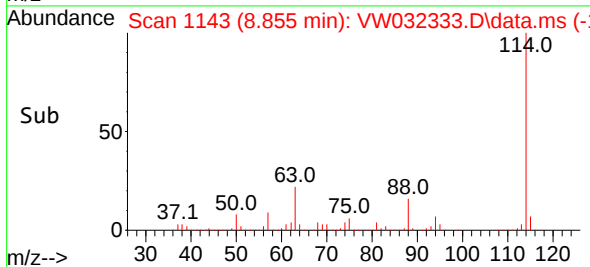
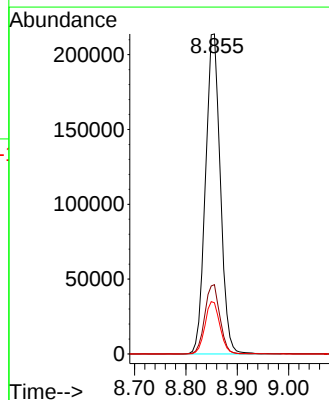
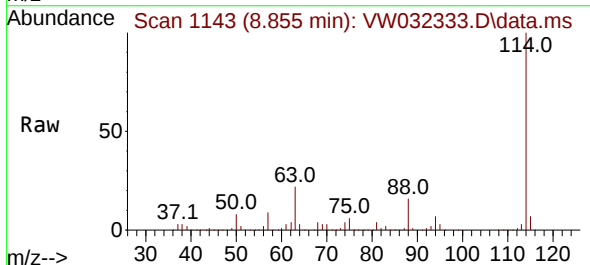
Tgt Ion: 114 Resp: 428594

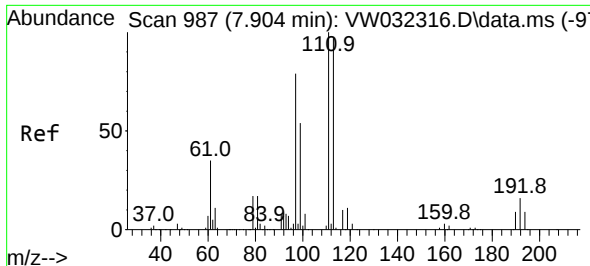
Ion Ratio Lower Upper

114 100

63 21.6 0.0 40.4

88 16.0 0.0 32.0

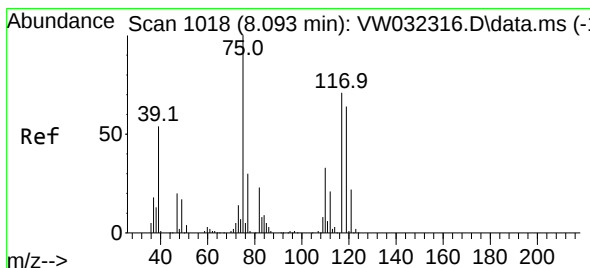
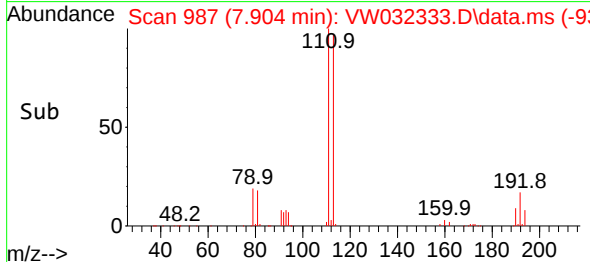
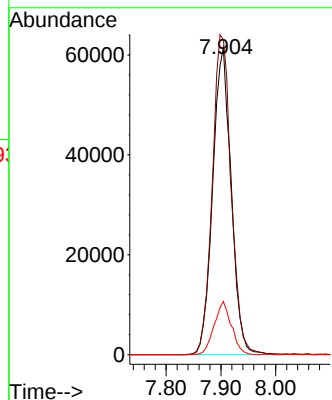
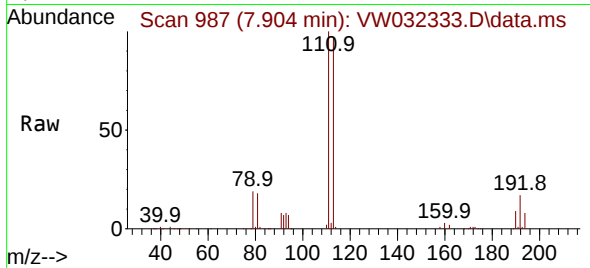




#35
Dibromofluoromethane
Concen: 51.830 ug/l
RT: 7.904 min Scan# 91
Delta R.T. -0.000 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

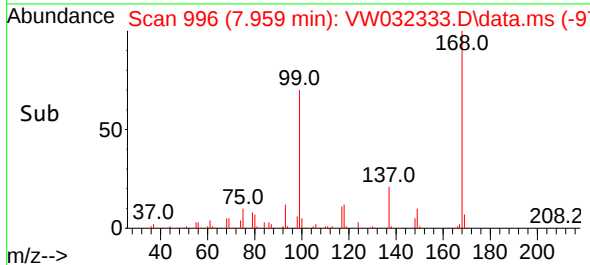
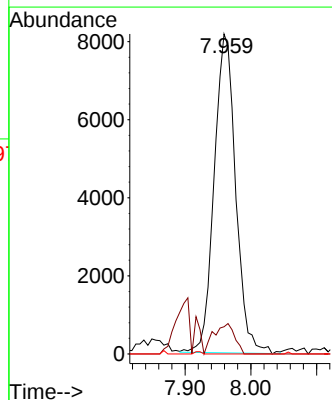
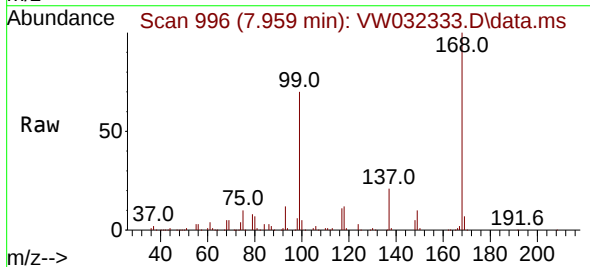
Instrument :
MSVOA_W
ClientSampleId :

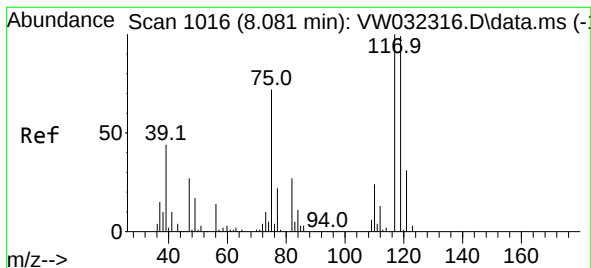
Tgt Ion:113 Resp: 143860
Ion Ratio Lower Upper
113 100
111 106.2 83.9 125.9
192 16.2 14.6 21.8



#36
1,1-Dichloropropene
Concen: 4.747 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.140 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

Tgt Ion: 75 Resp: 18595
Ion Ratio Lower Upper
75 100
110 9.2 17.5 52.5#
77 0.0 24.1 36.1#





#38

Carbon Tetrachloride

Concen: 6.069 ug/l

RT: 7.965 min Scan# 91

Delta R.T. -0.122 min

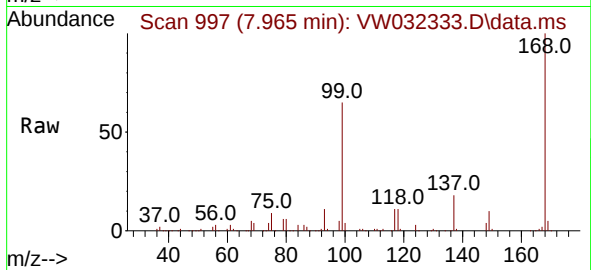
Lab File: VW032333.D

Acq: 02 Oct 2025 15:25

Instrument :

MSVOA_W

ClientSampleId :



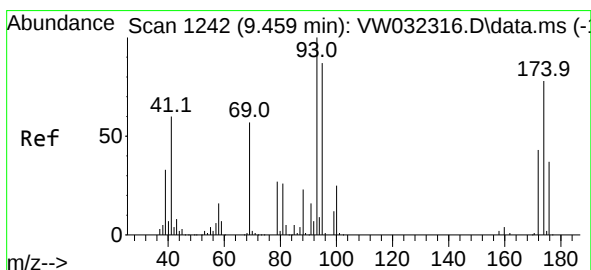
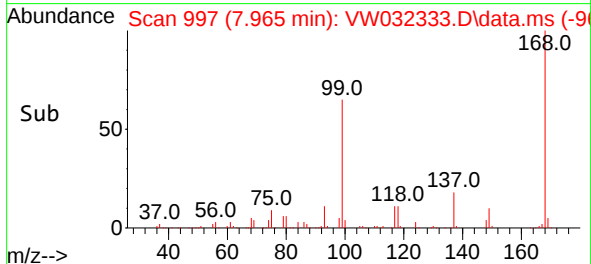
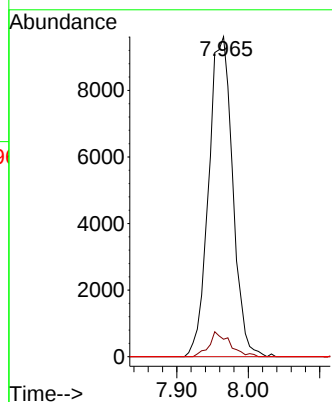
Tgt Ion:117 Resp: 22370

Ion Ratio Lower Upper

117 100

119 5.5 74.2 111.2#

121 0.0 25.6 38.4#



#49

1,4-Dioxane

Concen: 1.553 ug/l

RT: 9.361 min Scan# 1226

Delta R.T. -0.098 min

Lab File: VW032333.D

Acq: 02 Oct 2025 15:25

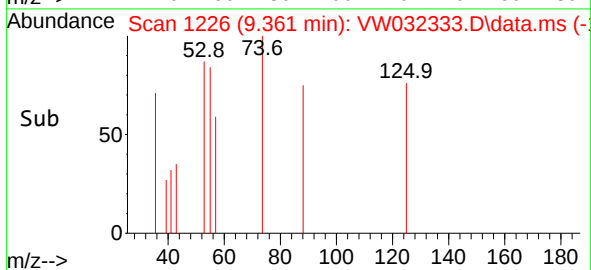
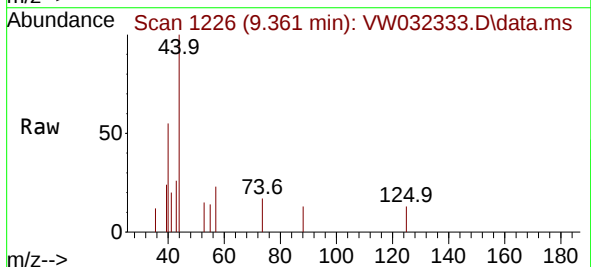
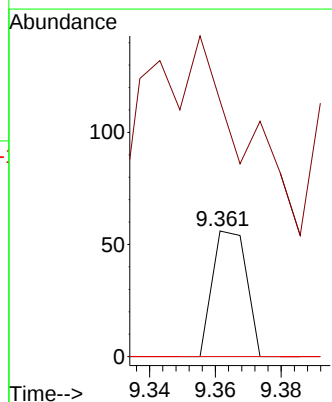
Tgt Ion: 88 Resp: 40

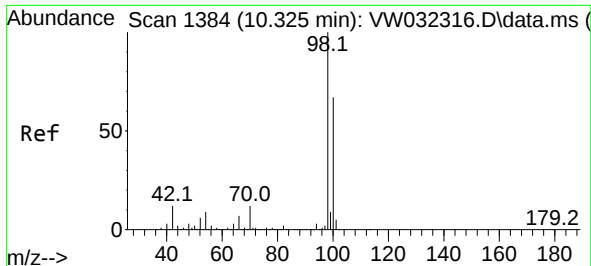
Ion Ratio Lower Upper

88 100

43 990.0 18.0 27.0#

58 0.0 55.4 83.0#

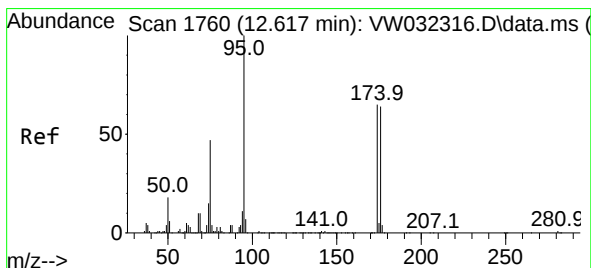
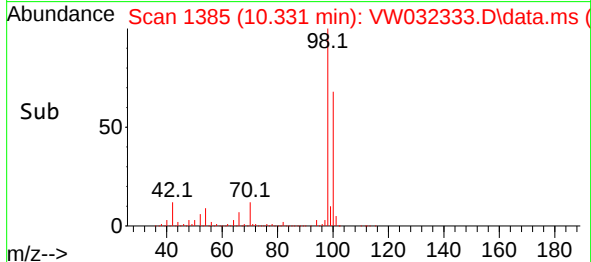
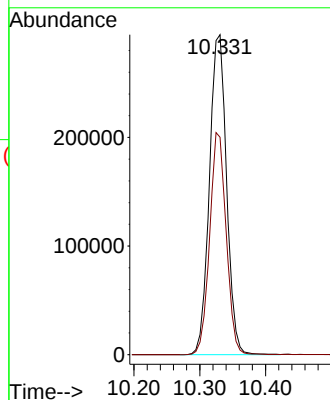
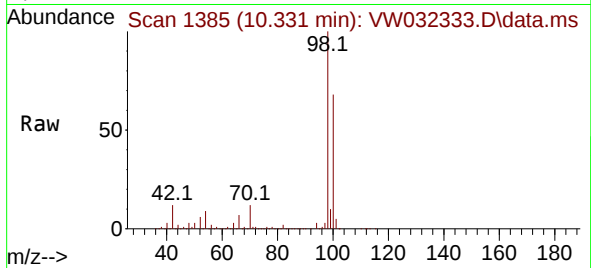




#50
Toluene-d8
Concen: 52.182 ug/l
RT: 10.331 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

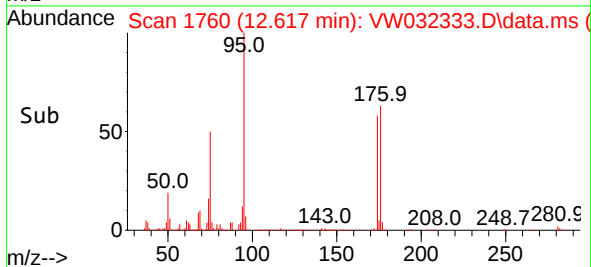
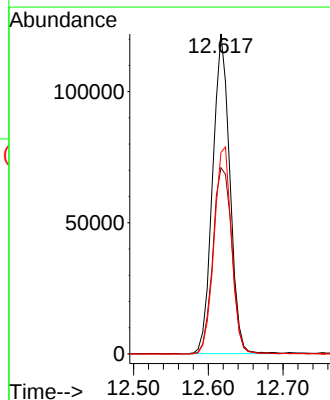
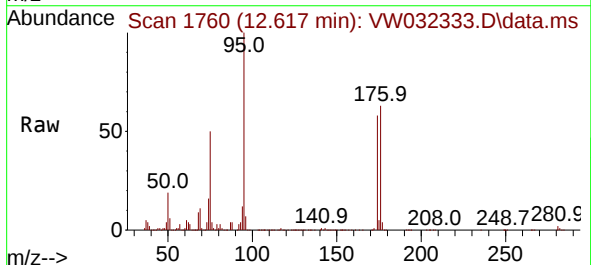
Instrument :
MSVOA_W
ClientSampleId :

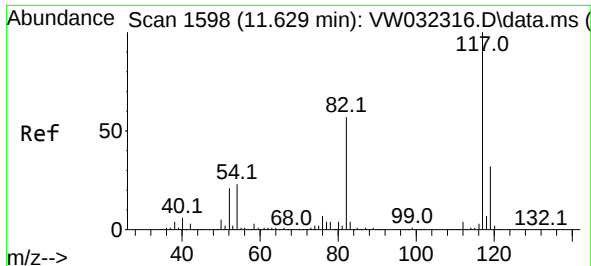
Tgt Ion: 98 Resp: 534566
Ion Ratio Lower Upper
98 100
100 66.9 51.4 77.2



#62
4-Bromofluorobenzene
Concen: 50.319 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

Tgt Ion: 95 Resp: 194834
Ion Ratio Lower Upper
95 100
174 64.5 0.0 145.6
176 65.8 0.0 140.8

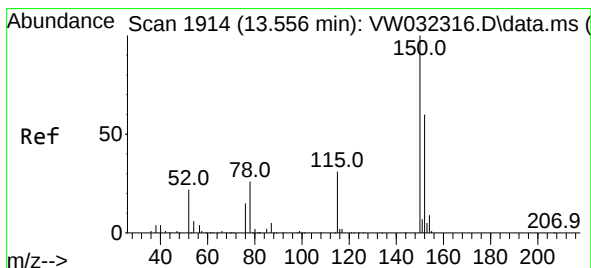
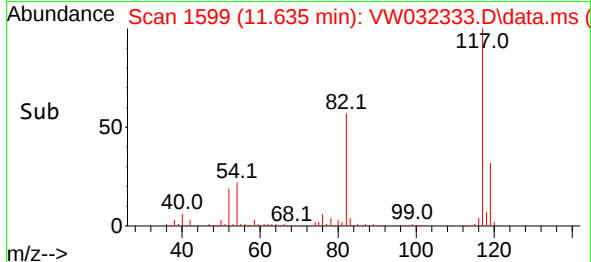
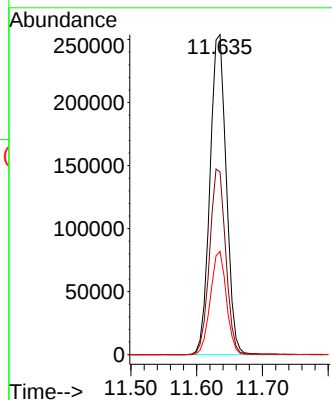
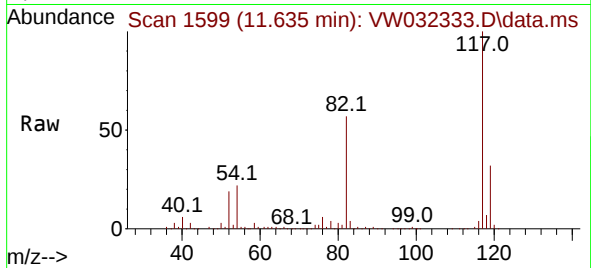




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 11
Delta R.T. 0.006 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

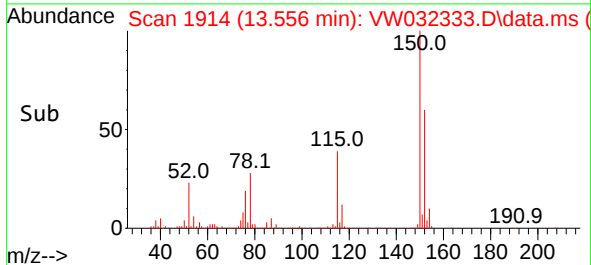
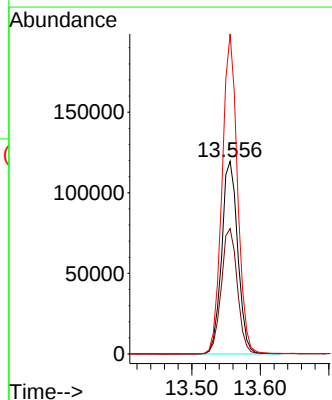
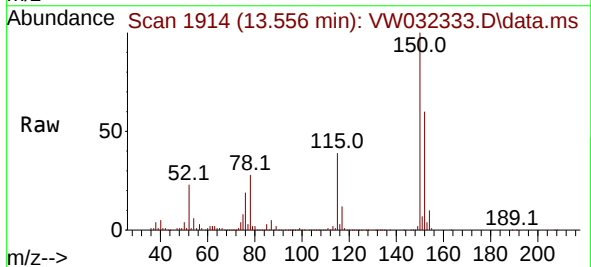
Instrument :
MSVOA_W
ClientSampleId :

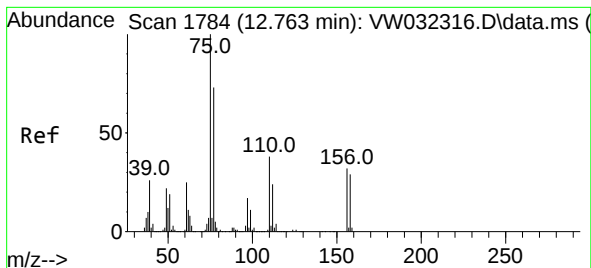
Tgt Ion:117 Resp: 438850
Ion Ratio Lower Upper
117 100
82 57.1 42.7 64.1
119 32.3 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. -0.000 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

Tgt Ion:152 Resp: 194227
Ion Ratio Lower Upper
152 100
115 65.4 31.8 95.4
150 159.0 0.0 343.0





#76

1,2,3-Trichloropropane

Concen: 39.149 ug/l

RT: 12.617 min Scan# 1

Delta R.T. -0.146 min

Lab File: VW032333.D

Acq: 02 Oct 2025 15:25

Instrument :

MSVOA_W

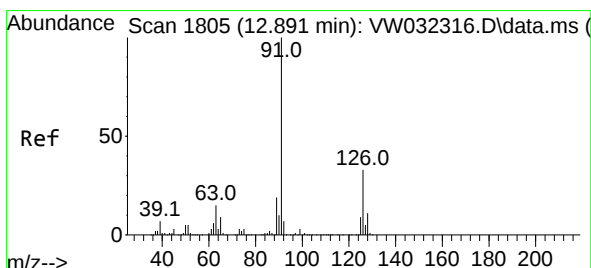
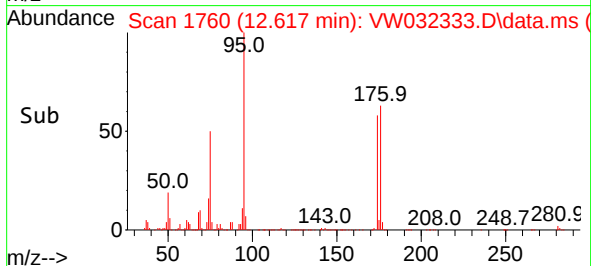
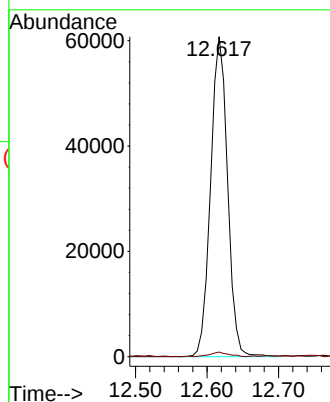
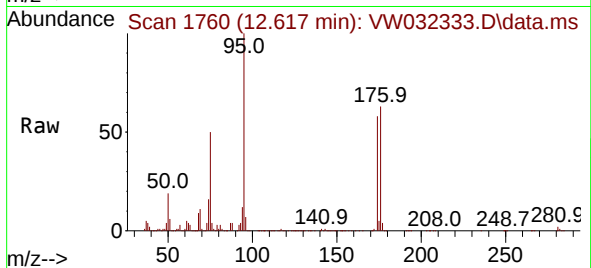
ClientSampleId :

Tgt Ion: 75 Resp: 100063

Ion Ratio Lower Upper

75 100

77 1.6 141.7 425.1#



#79

2-Chlorotoluene

Concen: 4.372 ug/l

RT: 13.031 min Scan# 1828

Delta R.T. 0.146 min

Lab File: VW032333.D

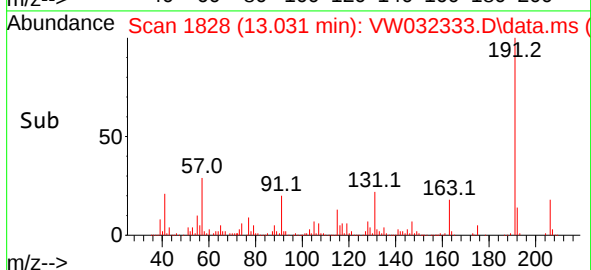
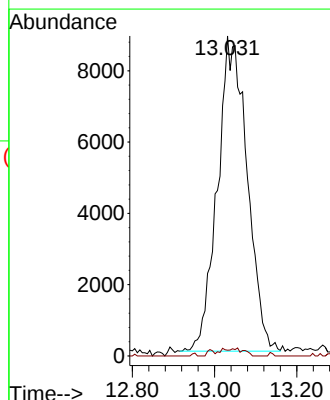
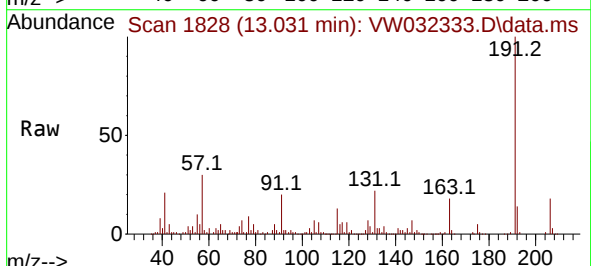
Acq: 02 Oct 2025 15:25

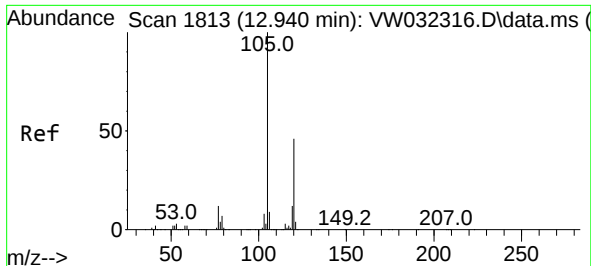
Tgt Ion: 91 Resp: 44369

Ion Ratio Lower Upper

91 100

126 0.4 16.6 49.7#

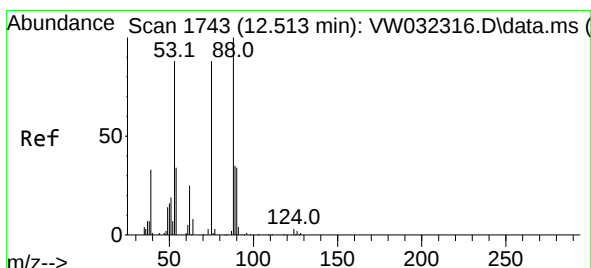
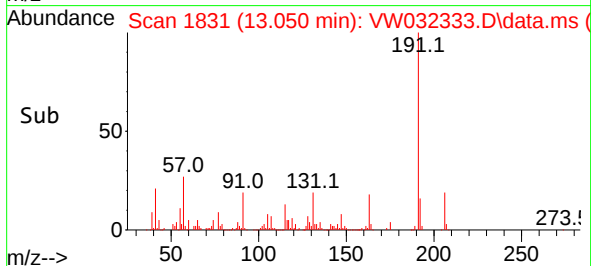
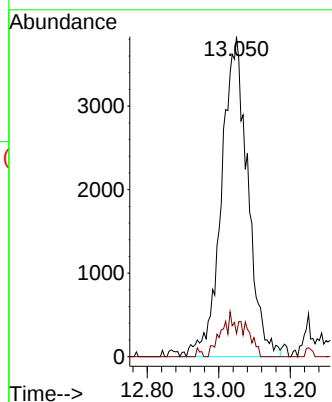
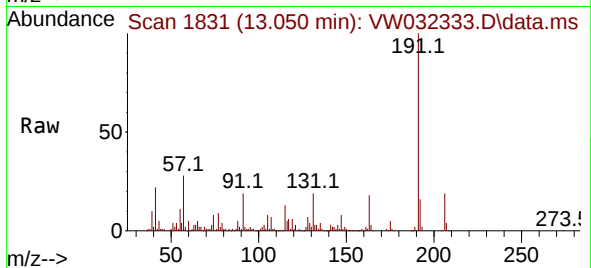




#80
1,3,5-Trimethylbenzene
Concen: 1.705 ug/l
RT: 13.050 min Scan# 11
Delta R.T. 0.110 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

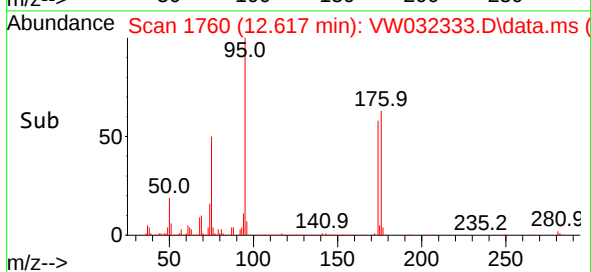
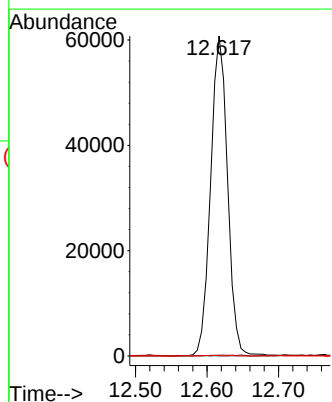
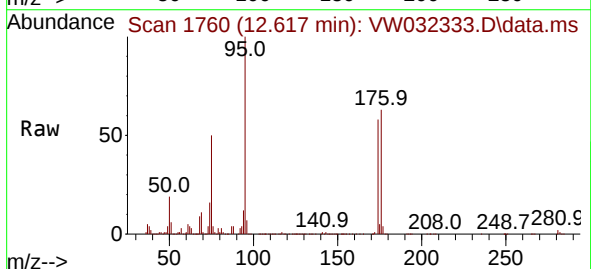
Instrument :
MSVOA_W
ClientSampleId :

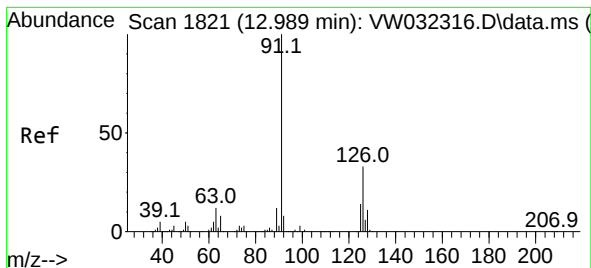
Tgt Ion:105 Resp: 19591
Ion Ratio Lower Upper
105 100
120 7.1 24.8 74.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 99.176 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.104 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

Tgt Ion: 75 Resp: 100063
Ion Ratio Lower Upper
75 100
53 0.0 91.0 136.6#
89 0.1 39.4 59.2#

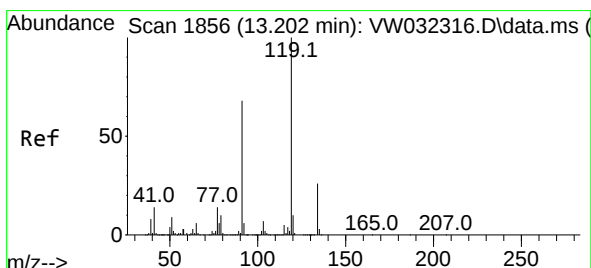
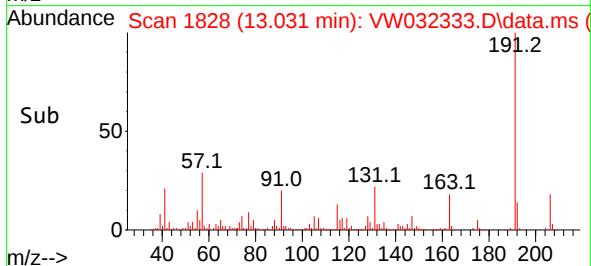
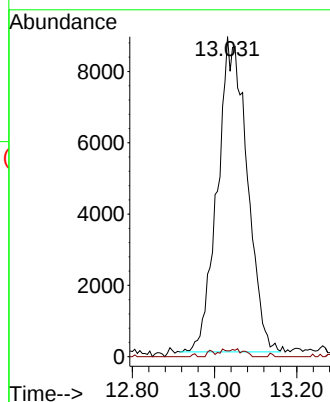
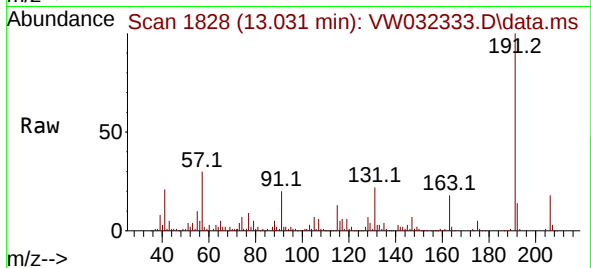




#82
4-Chlorotoluene
Concen: 4.112 ug/l
RT: 13.031 min Scan# 1828
Delta R.T. 0.043 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 91 Resp: 44369
Ion Ratio Lower Upper
91 100
126 0.4 16.1 48.2#



#83
tert-Butylbenzene
Concen: 1.533 ug/l
RT: 13.050 min Scan# 1831
Delta R.T. -0.152 min
Lab File: VW032333.D
Acq: 02 Oct 2025 15:25

Tgt Ion: 119 Resp: 14451
Ion Ratio Lower Upper
119 100
91 307.0 33.8 101.3#
134 2.5 12.5 37.5#

