

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091825\
 Data File : VX047654.D
 Acq On : 18 Sep 2025 19:53
 Operator : JC/MD
 Sample : Q3095-29
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D2-20250910

Quant Time: Sep 22 03:44:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

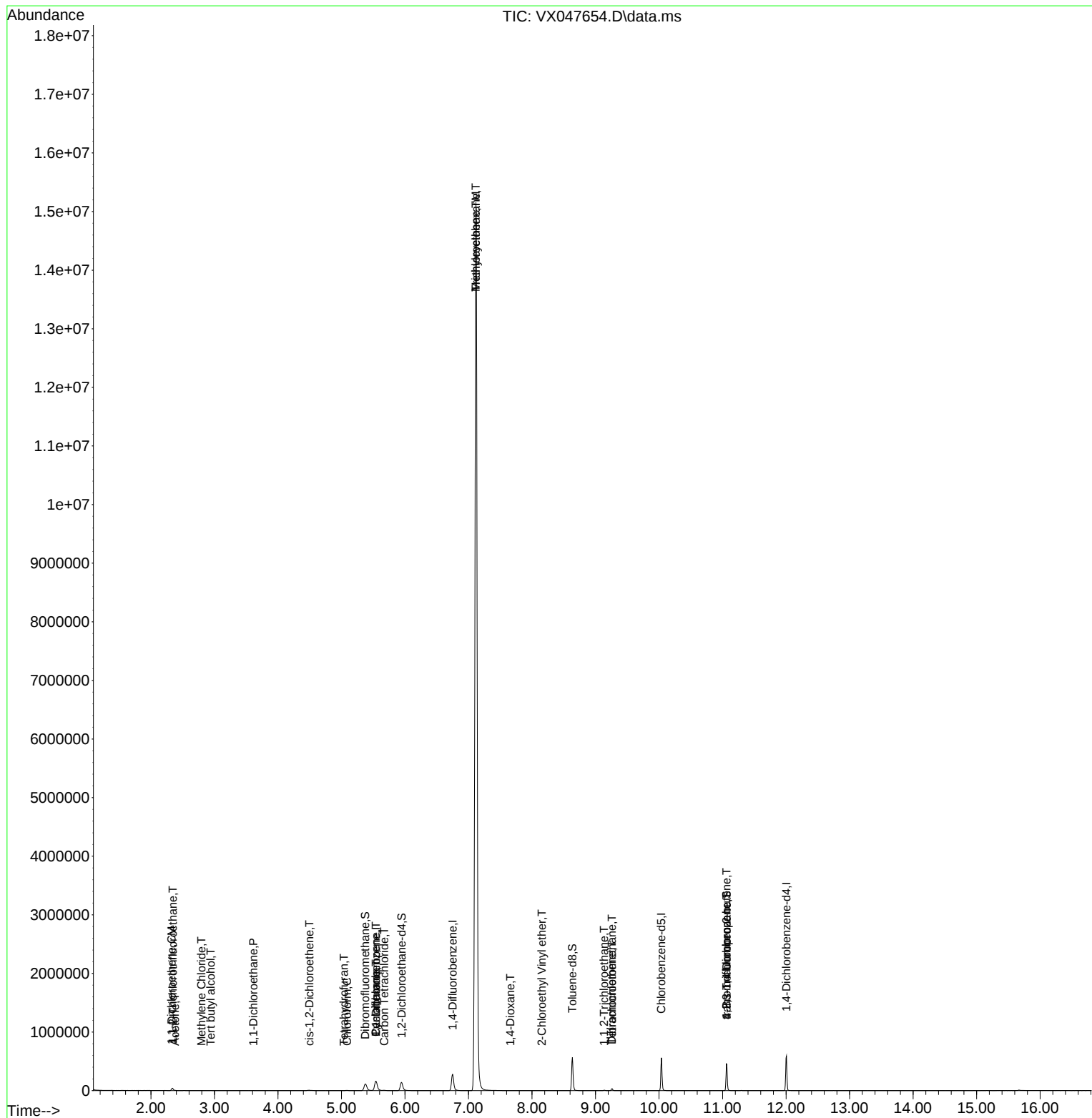
Internal Standards						
1) Pentafluorobenzene	5.544	168	163338	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	303548	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	246226	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	122418	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	151198	58.155	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	116.300%
35) Dibromofluoromethane	5.373	113	111583	54.811	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	109.620%
50) Toluene-d8	8.635	98	344429	48.896	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	97.800%
62) 4-Bromofluorobenzene	11.061	95	135505	50.687	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	101.380%
Target Compounds						
						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.343	101	15662	8.290	ug/l	97
11) Tert butyl alcohol	2.941	59	78	0.269	ug/l #	72
12) 1,1-Dichloroethene	2.325	96	4014	2.068	ug/l	94
16) Acetone	2.380	43	2037	1.802	ug/l #	45
20) Methylene Chloride	2.794	84	558	0.233	ug/l #	76
24) 1,1-Dichloroethane	3.611	63	1399	0.339	ug/l #	81
27) cis-1,2-Dichloroethene	4.495	96	4530	1.770	ug/l	93
29) Tetrahydrofuran	5.038	42	307	0.362	ug/l #	40
30) Chloroform	5.086	83	3388	0.813	ug/l	100
31) Cyclohexane	5.544	56	3581	1.042	ug/l #	1
36) 1,1-Dichloropropene	5.544	75	14182	4.767	ug/l #	51
38) Carbon Tetrachloride	5.672	117	4455	1.378	ug/l #	80
39) Methylcyclohexane	7.117	83	78522	23.254	ug/l #	1
44) Trichloroethene	7.117	130	6374946	2918.489	ug/l	98
49) 1,4-Dioxane	7.659	88	242	9.203	ug/l #	80
55) 1,1,2-Trichloroethane	9.135	97	2000	0.932	ug/l #	86
58) 2-Chloroethyl Vinyl ether	8.153	63	88	7.947	ug/l #	47
60) Dibromochloromethane	9.256	129	6513	2.634	ug/l #	11
64) Tetrachloroethene	9.256	164	6710	4.180	ug/l	94
76) 1,2,3-Trichloropropane	11.061	75	70673	28.513	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	70673	72.713	ug/l #	8

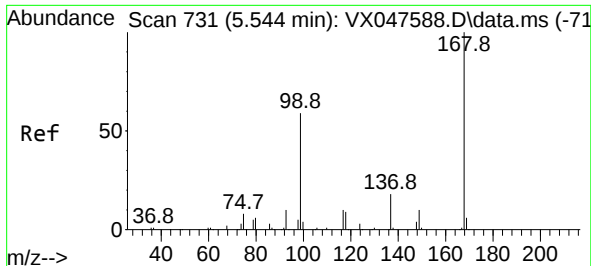
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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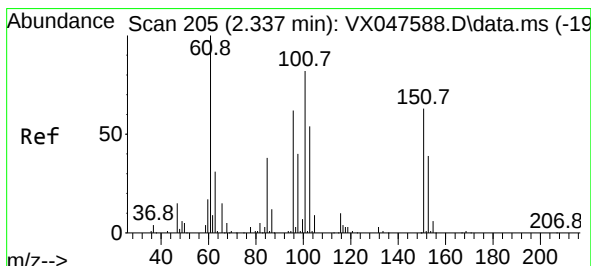
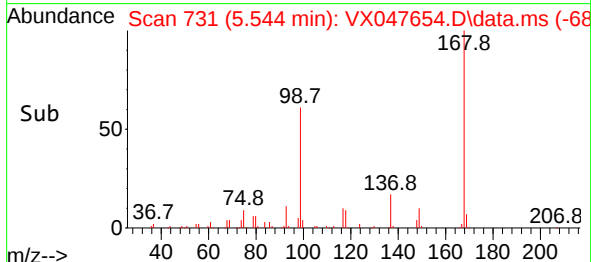
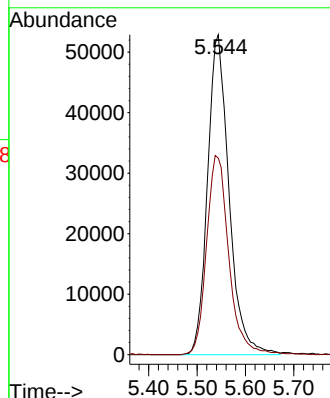
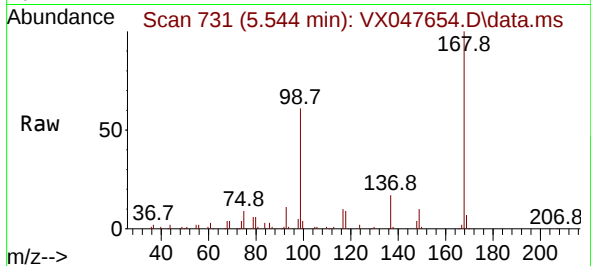




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

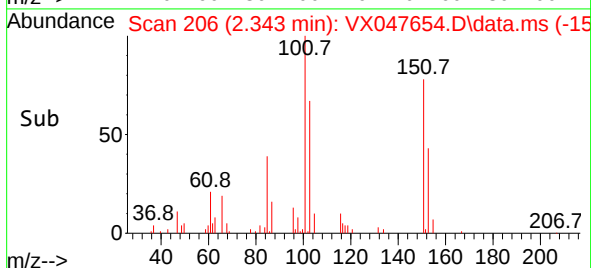
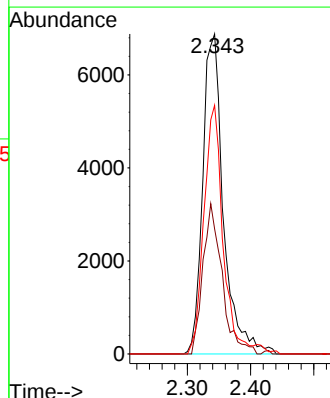
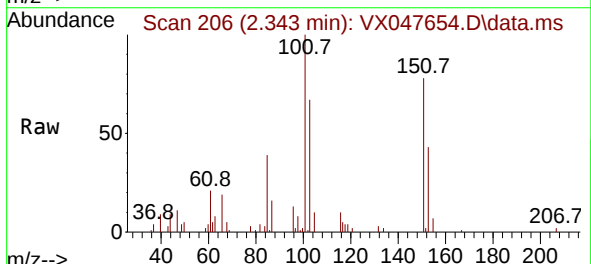
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20250910

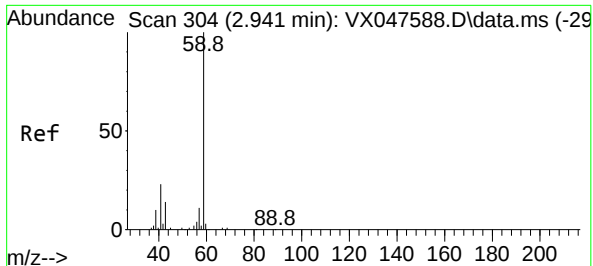
Tgt Ion:168 Resp: 163338
Ion Ratio Lower Upper
168 100
99 61.5 48.8 73.2



#9
1,1,2-Trichlorotrifluoroethane
Concen: 8.290 ug/l
RT: 2.343 min Scan# 206
Delta R.T. 0.006 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

Tgt Ion:101 Resp: 15662
Ion Ratio Lower Upper
101 100
85 43.7 35.5 53.3
151 71.3 59.4 89.0

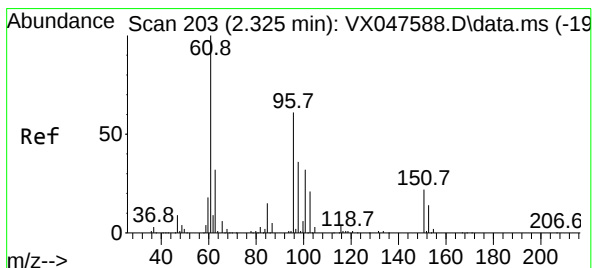
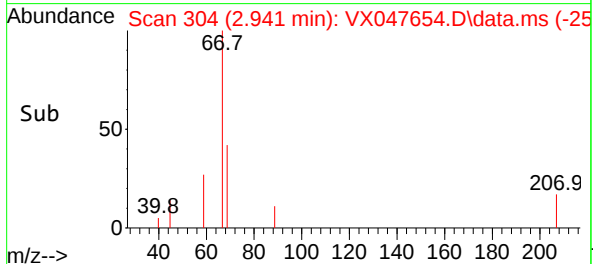
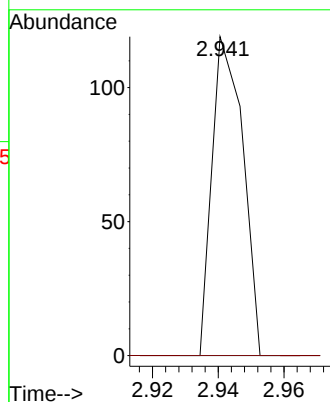
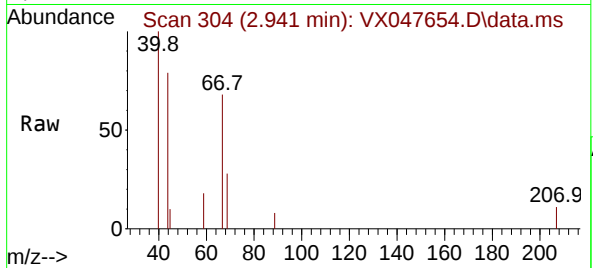




#11
Tert butyl alcohol
Concen: 0.269 ug/l
RT: 2.941 min Scan# 304
Delta R.T. -0.000 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

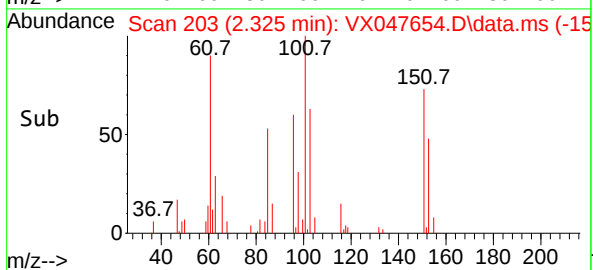
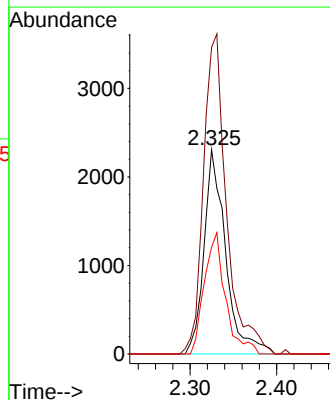
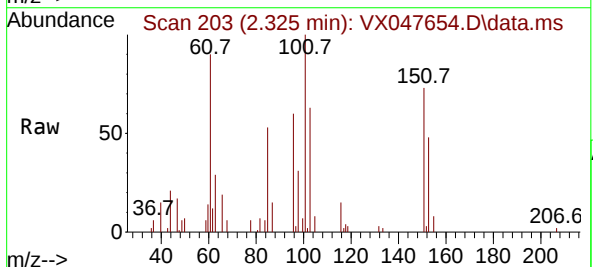
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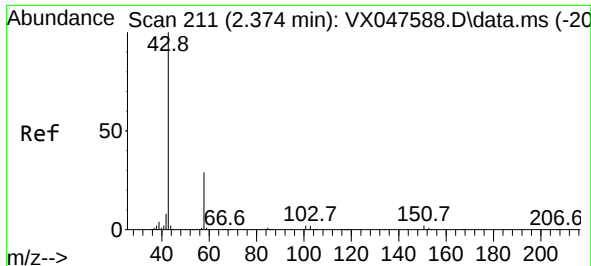
Tgt Ion: 59 Resp: 78
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 2.068 ug/l
RT: 2.325 min Scan# 203
Delta R.T. -0.000 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

Tgt Ion: 96 Resp: 4014
Ion Ratio Lower Upper
96 100
61 170.7 131.0 196.6
98 52.3 47.7 71.5

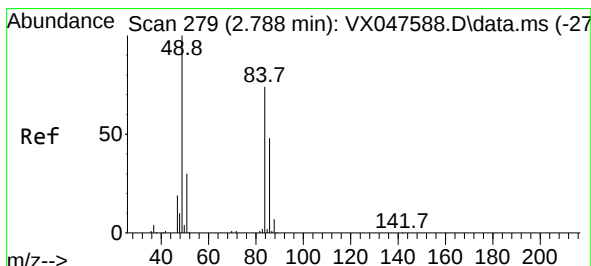
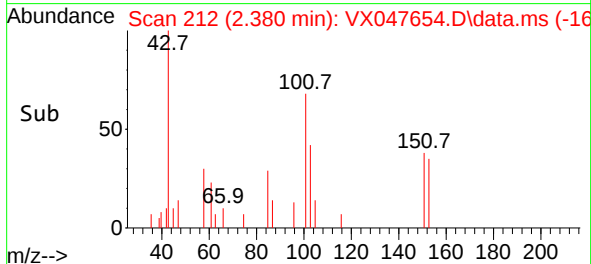
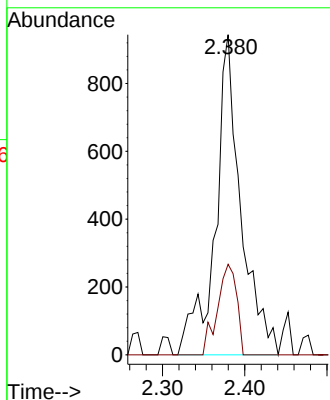
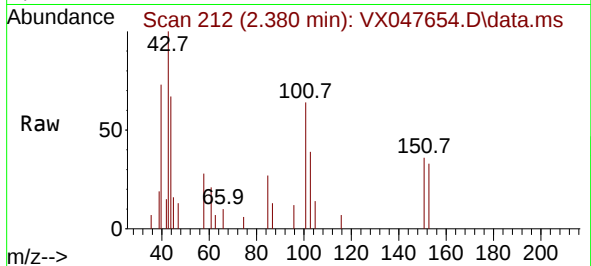




#16
Acetone
Concen: 1.802 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

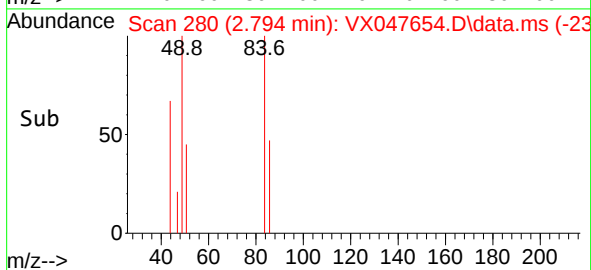
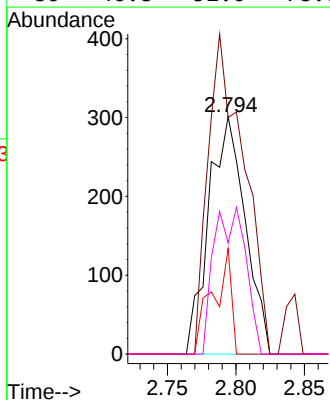
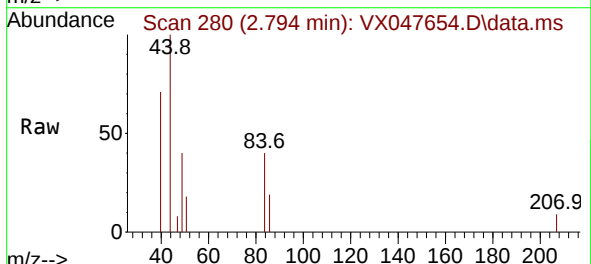
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20250910

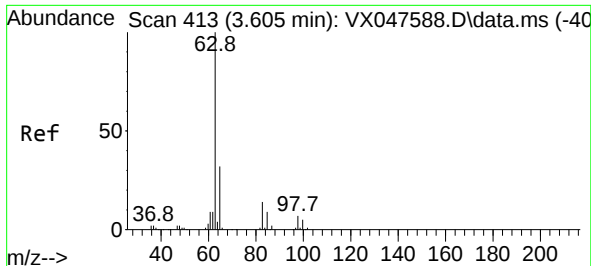
Tgt Ion: 43 Resp: 2037
Ion Ratio Lower Upper
43 100
58 58.6 23.4 35.0#



#20
Methylene Chloride
Concen: 0.233 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

Tgt Ion: 84 Resp: 558
Ion Ratio Lower Upper
84 100
49 99.7 108.6 162.8#
51 44.5 32.6 48.8
86 46.8 52.0 78.0#

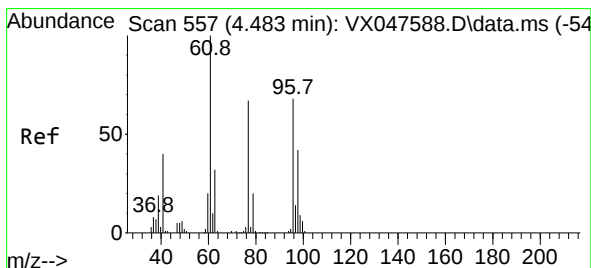
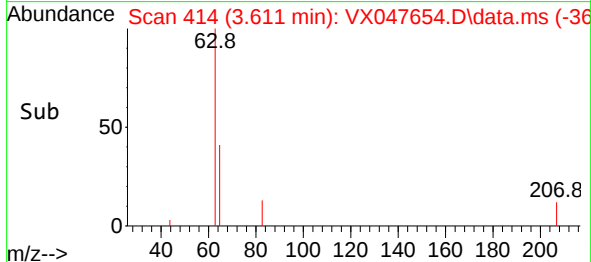
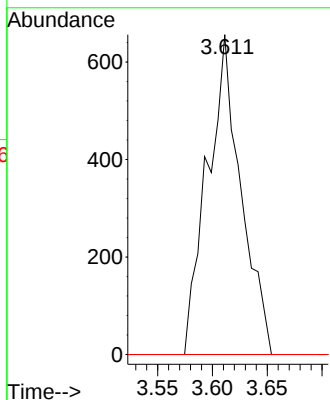
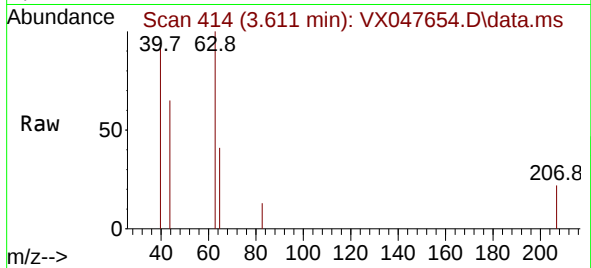




#24
1,1-Dichloroethane
Concen: 0.339 ug/l
RT: 3.611 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

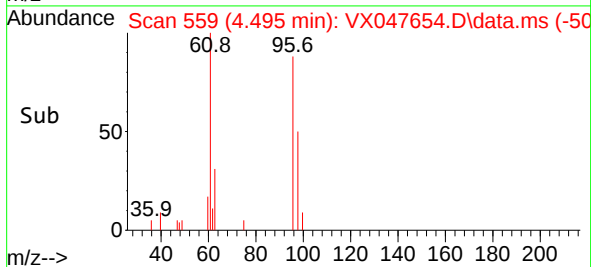
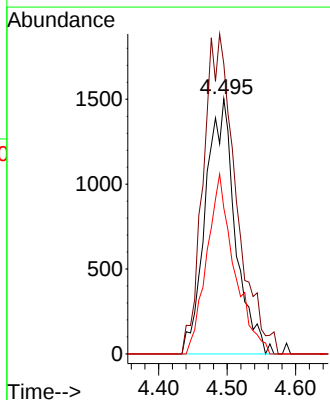
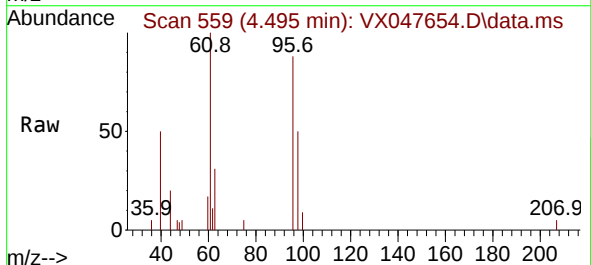
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20250910

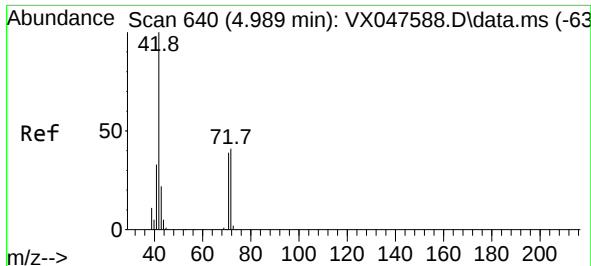
Tgt Ion: 63 Resp: 1399
Ion Ratio Lower Upper
63 100
98 0.0 3.8 11.2#
100 0.0 2.3 6.9#



#27
cis-1,2-Dichloroethene
Concen: 1.770 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.012 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

Tgt Ion: 96 Resp: 4530
Ion Ratio Lower Upper
96 100
61 138.9 0.0 303.2
98 65.2 0.0 127.8





#29

Tetrahydrofuran

Concen: 0.362 ug/l

RT: 5.038 min Scan# 64

Delta R.T. 0.049 min

Lab File: VX047654.D

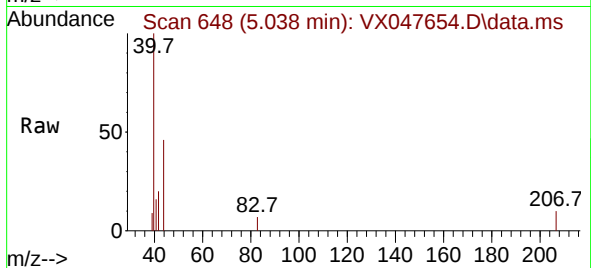
Acq: 18 Sep 2025 19:53

Instrument :

MSVOA_X

ClientSampleId :

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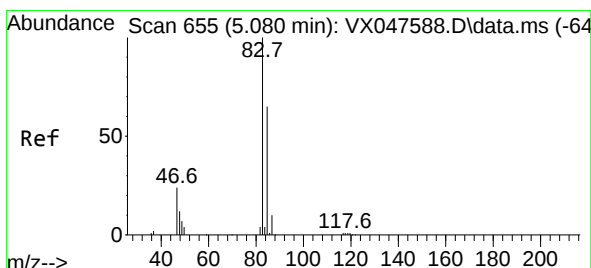
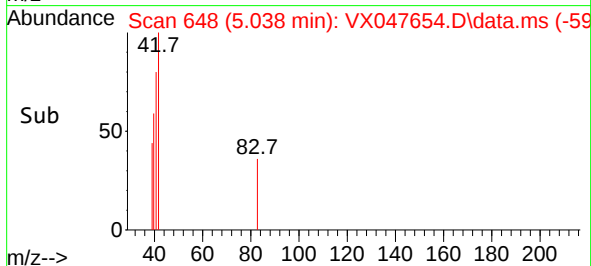
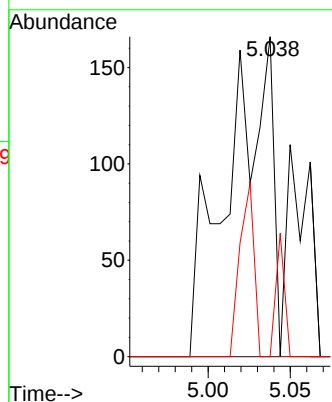
Tgt Ion: 42 Resp: 307

Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.2#

71 7.5 31.9 47.9#



#30

Chloroform

Concen: 0.813 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.006 min

Lab File: VX047654.D

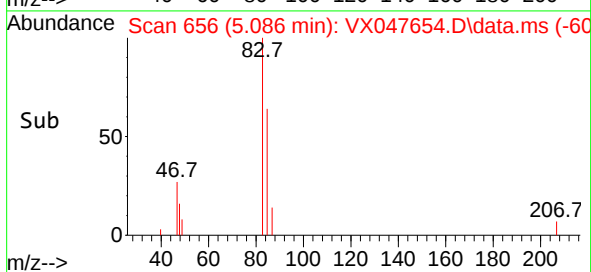
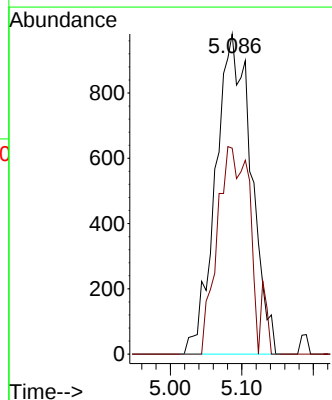
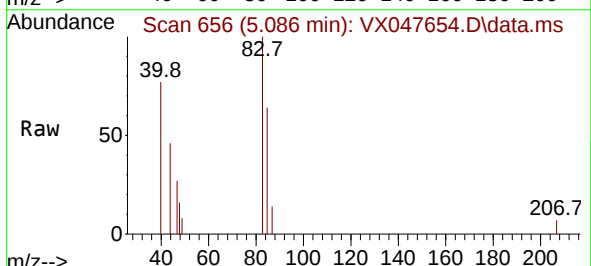
Acq: 18 Sep 2025 19:53

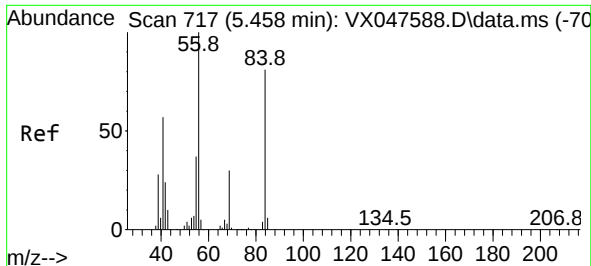
Tgt Ion: 83 Resp: 3388

Ion Ratio Lower Upper

83 100

85 64.3 51.8 77.6

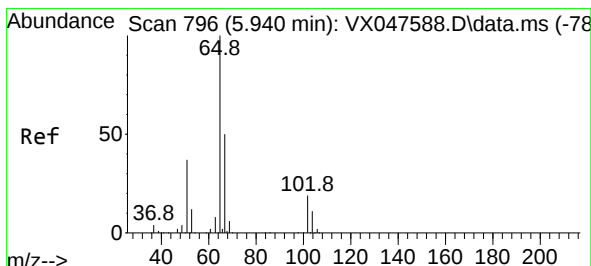
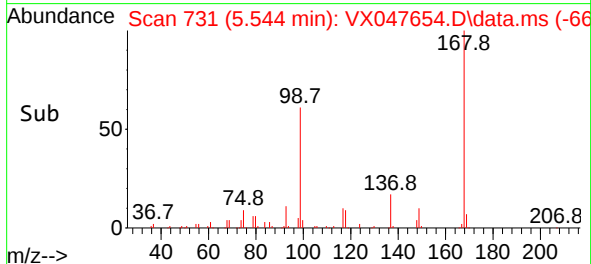
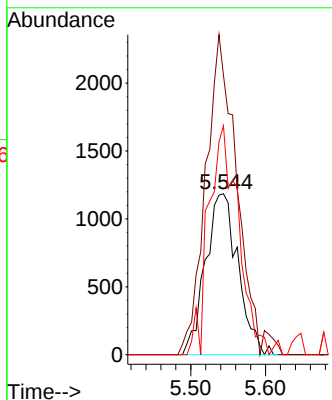
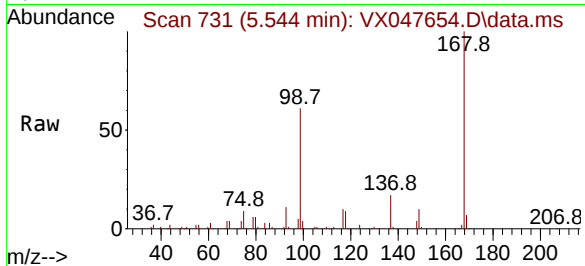




#31
Cyclohexane
Concen: 1.042 ug/l
RT: 5.544 min Scan# 717
Delta R.T. 0.085 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

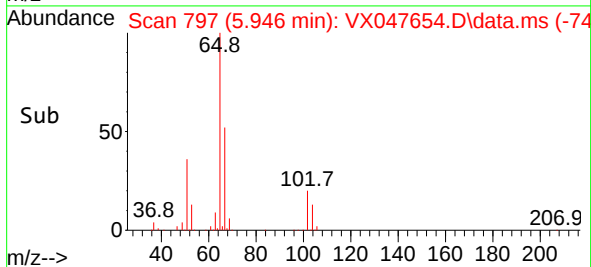
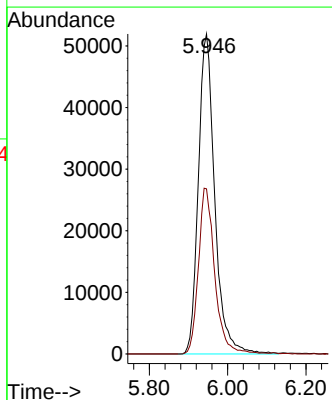
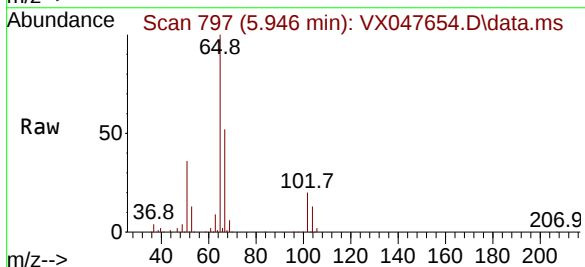
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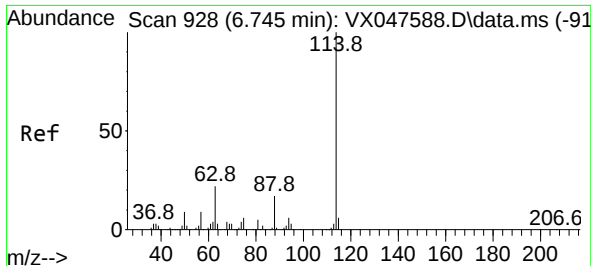
Tgt Ion: 56 Resp: 3581
Ion Ratio Lower Upper
56 100
69 173.5 23.8 35.8#
84 142.3 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 58.155 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

Tgt Ion: 65 Resp: 151198
Ion Ratio Lower Upper
65 100
67 51.6 0.0 103.0

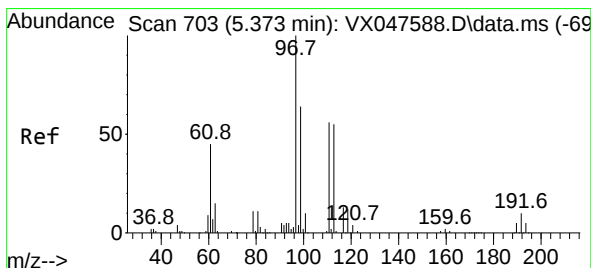
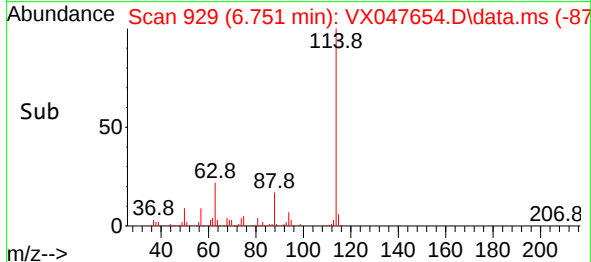
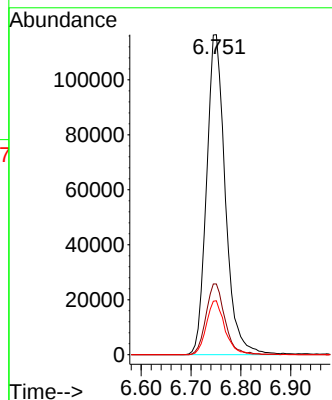
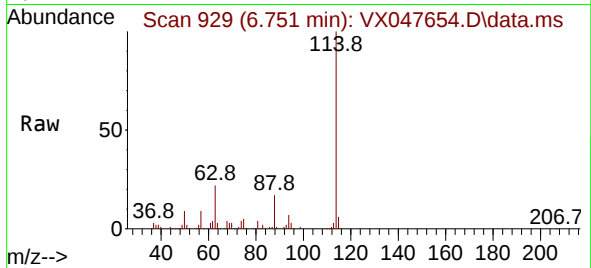




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

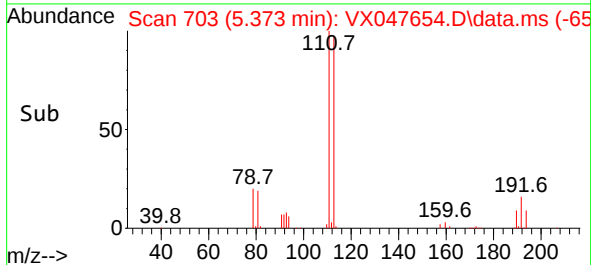
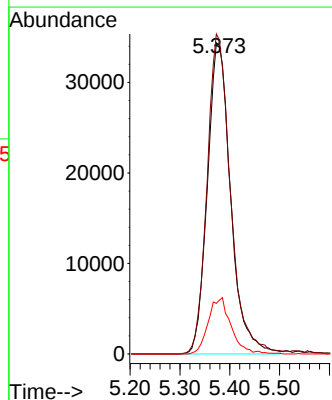
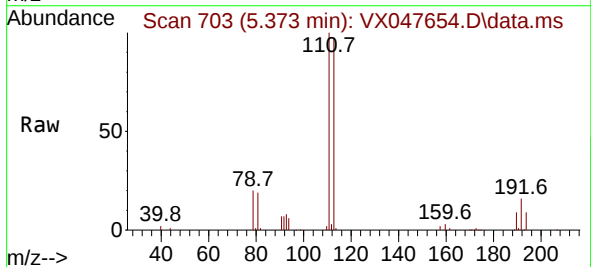
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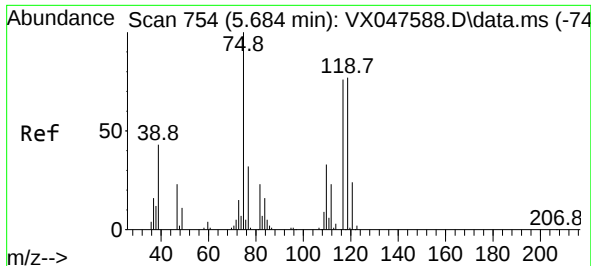
Tgt Ion:114 Resp: 303548
Ion Ratio Lower Upper
114 100
63 25.2 0.0 44.0
88 16.9 0.0 34.2



#35
Dibromofluoromethane
Concen: 54.811 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

Tgt Ion:113 Resp: 111583
Ion Ratio Lower Upper
113 100
111 103.2 80.9 121.3
192 17.8 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.767 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.140 min

Lab File: VX047654.D

Acq: 18 Sep 2025 19:53

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20250910

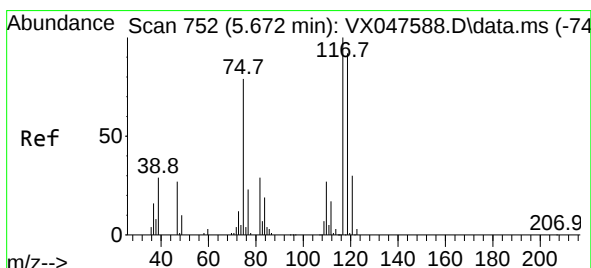
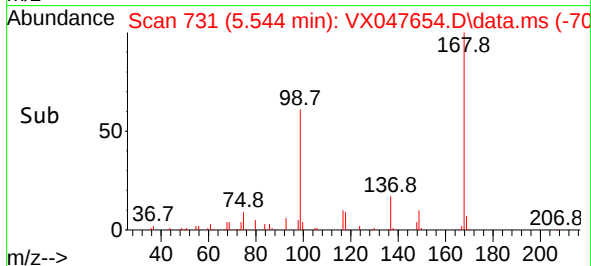
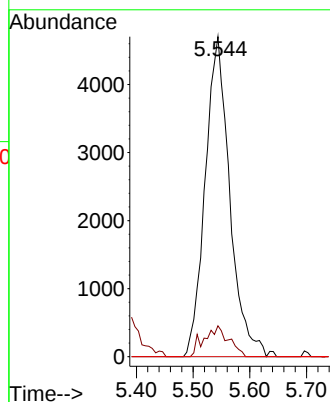
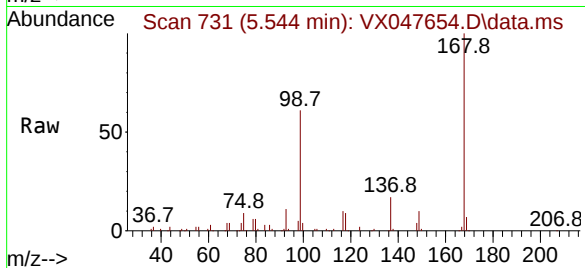
Tgt Ion: 75 Resp: 14182

Ion Ratio Lower Upper

75 100

110 9.5 16.7 50.1#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 1.378 ug/l

RT: 5.672 min Scan# 752

Delta R.T. -0.000 min

Lab File: VX047654.D

Acq: 18 Sep 2025 19:53

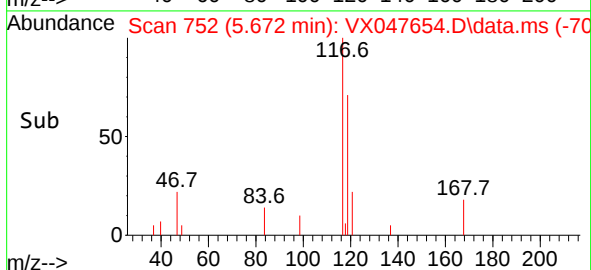
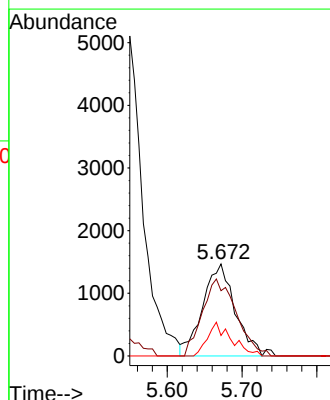
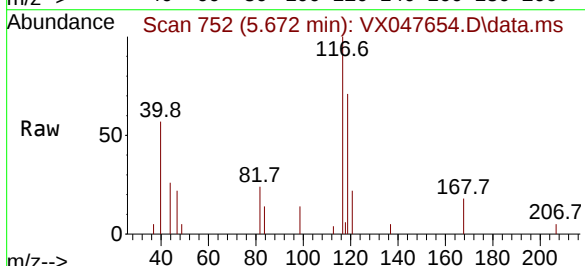
Tgt Ion: 117 Resp: 4455

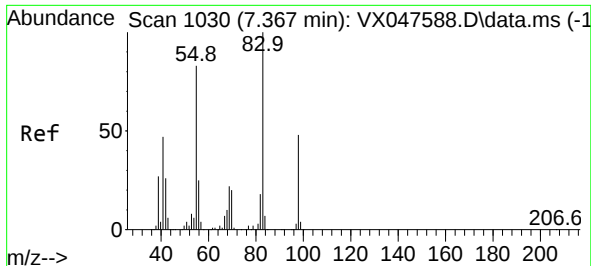
Ion Ratio Lower Upper

117 100

119 70.9 73.4 110.2#

121 22.2 23.8 35.6#

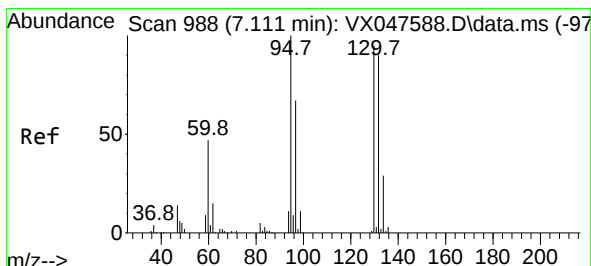
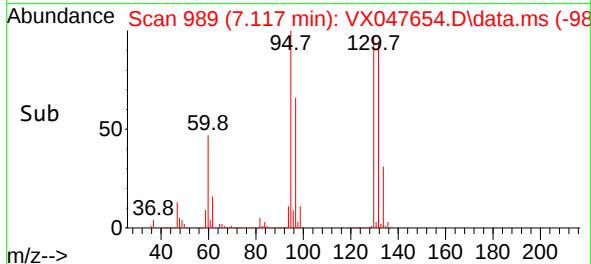
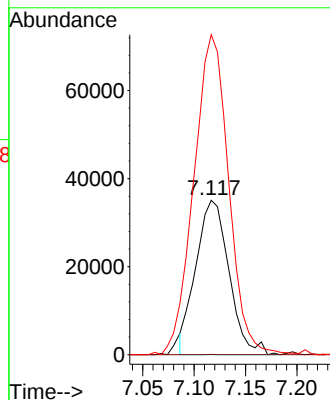
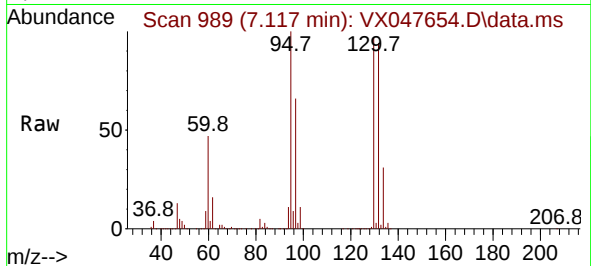




#39
Methylcyclohexane
Concen: 23.254 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.250 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

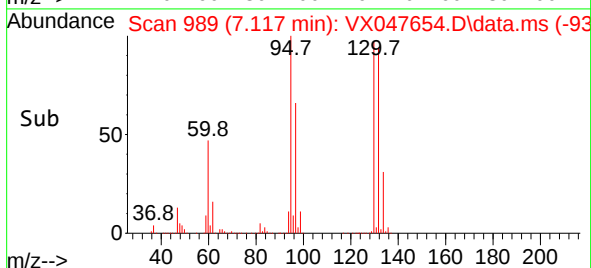
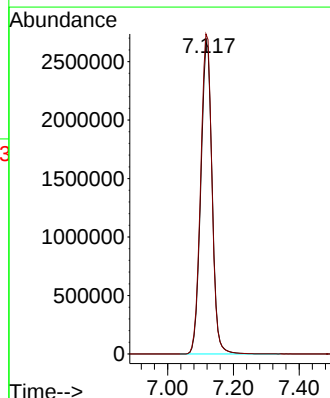
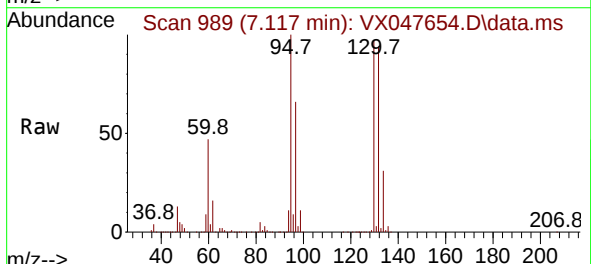
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20250910

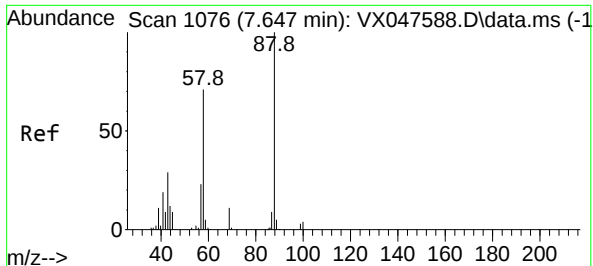
Tgt Ion: 83 Resp: 78522
Ion Ratio Lower Upper
83 100
55 0.1 66.4 99.6#
98 312.1 38.1 57.1#



#44
Trichloroethene
Concen: 2918.489 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

Tgt Ion:130 Resp: 6374946
Ion Ratio Lower Upper
130 100
95 102.8 0.0 210.8





#49

1,4-Dioxane

Concen: 9.203 ug/l

RT: 7.659 min Scan# 1076

Delta R.T. 0.012 min

Lab File: VX047654.D

Acq: 18 Sep 2025 19:53

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20250910

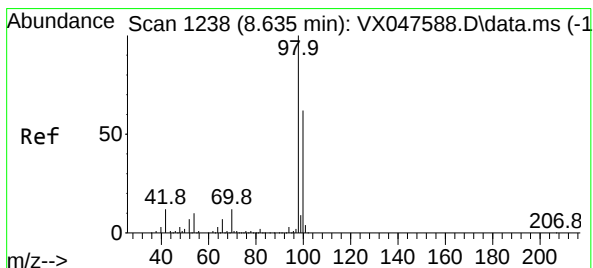
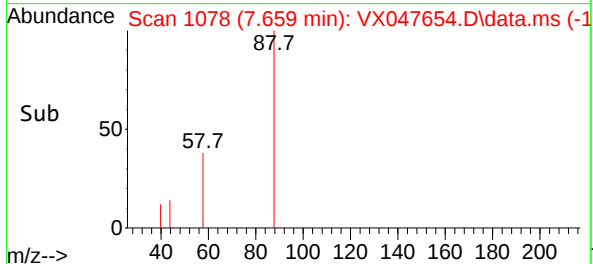
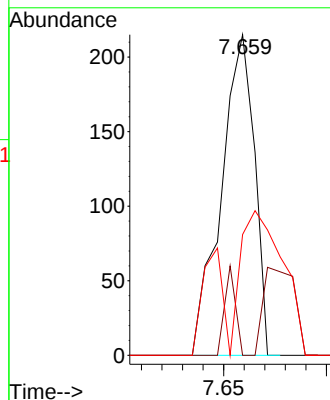
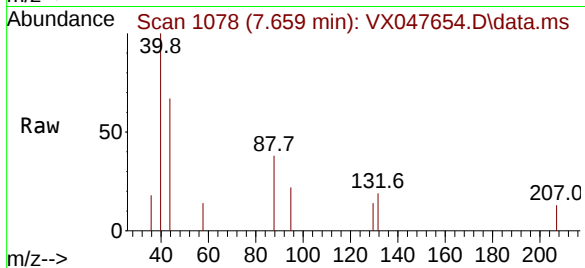
Tgt Ion: 88 Resp: 242

Ion Ratio Lower Upper

88 100

43 25.2 30.2 45.2#

58 57.4 59.5 89.3#



#50

Toluene-d8

Concen: 48.896 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX047654.D

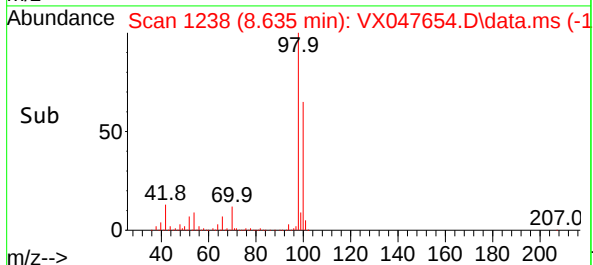
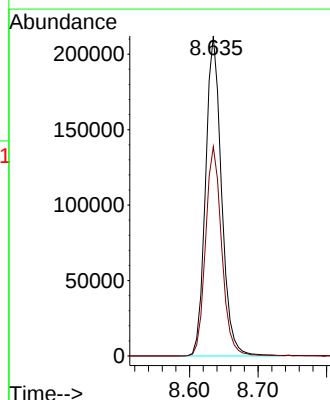
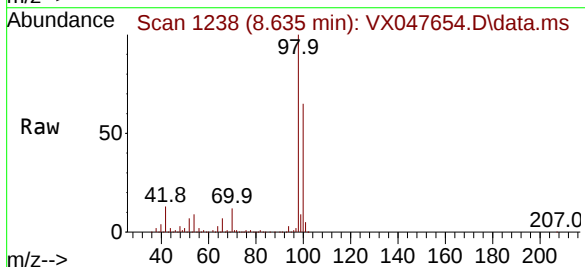
Acq: 18 Sep 2025 19:53

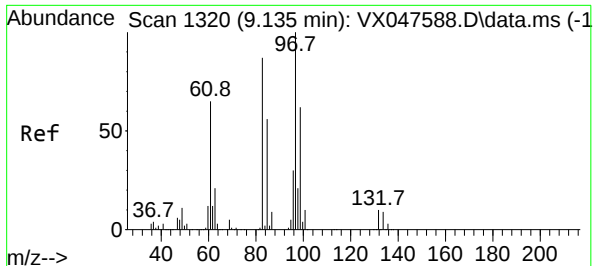
Tgt Ion: 98 Resp: 344429

Ion Ratio Lower Upper

98 100

100 66.0 53.0 79.4





#55

1,1,2-Trichloroethane

Concen: 0.932 ug/l

RT: 9.135 min Scan# 1159

Delta R.T. -0.000 min

Lab File: VX047654.D

Acq: 18 Sep 2025 19:53

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20250910

Tgt Ion: 97 Resp: 2000

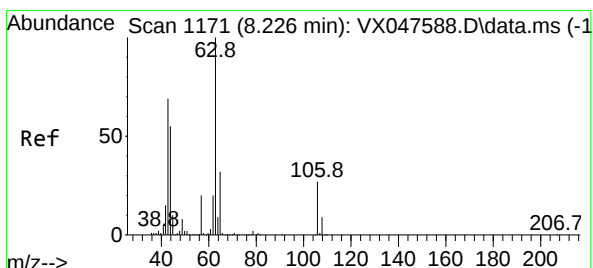
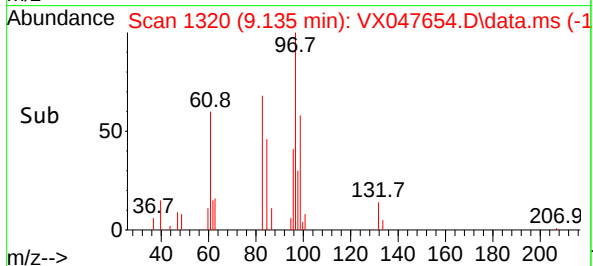
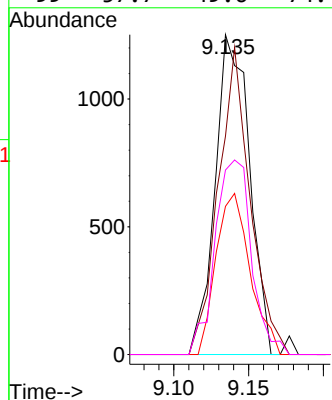
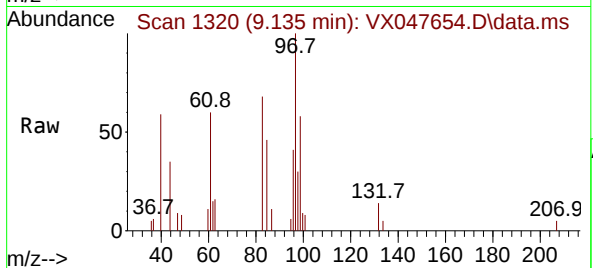
Ion Ratio Lower Upper

97 100

83 68.3 69.6 104.4#

85 46.3 45.0 67.6

99 57.7 49.6 74.4



#58

2-Chloroethyl Vinyl ether

Concen: 7.947 ug/l

RT: 8.153 min Scan# 1159

Delta R.T. -0.073 min

Lab File: VX047654.D

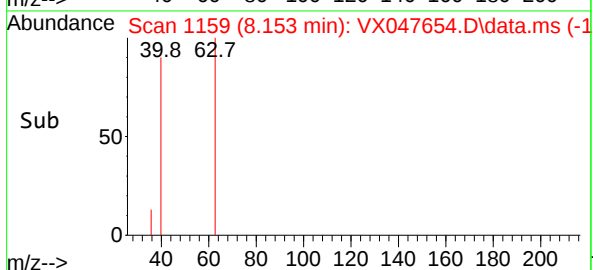
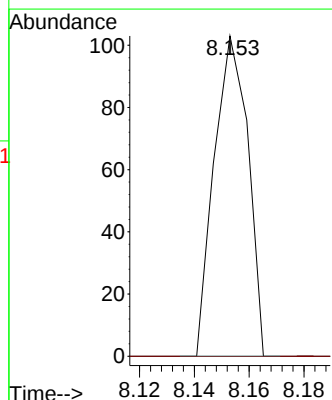
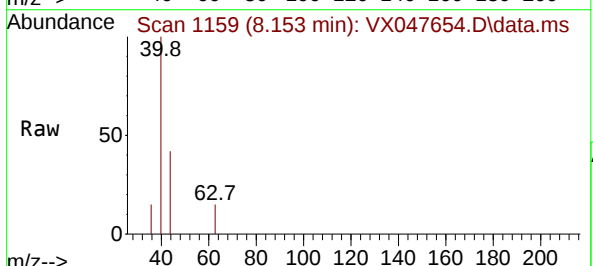
Acq: 18 Sep 2025 19:53

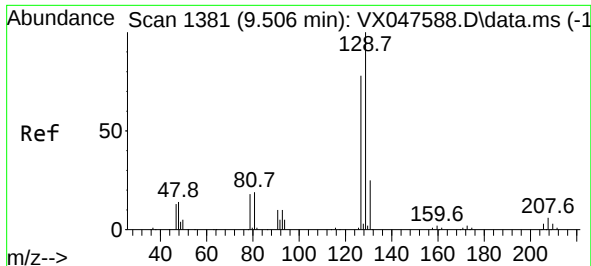
Tgt Ion: 63 Resp: 88

Ion Ratio Lower Upper

63 100

106 0.0 21.9 32.9#

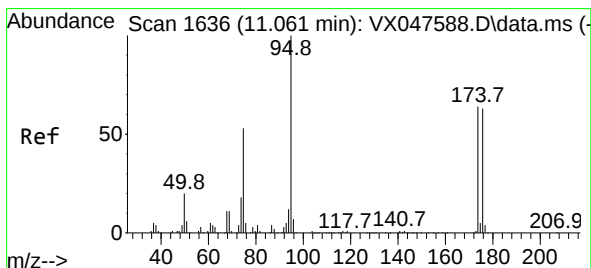
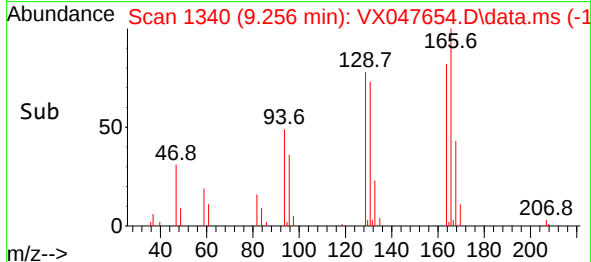
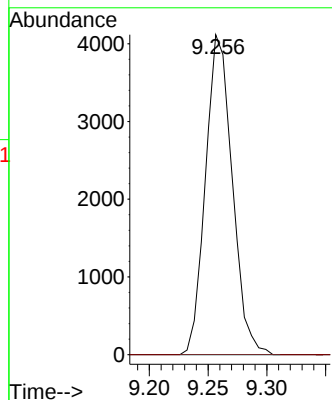
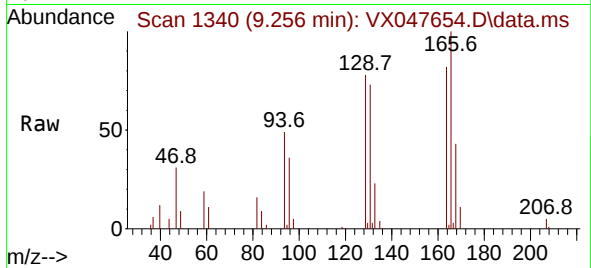




#60
Dibromochloromethane
Concen: 2.634 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

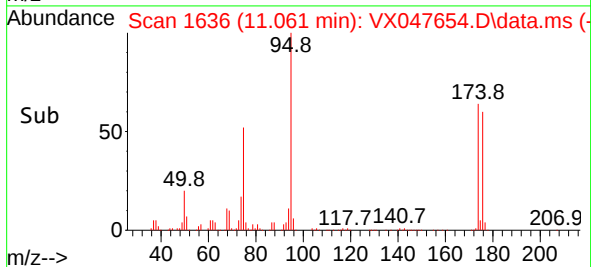
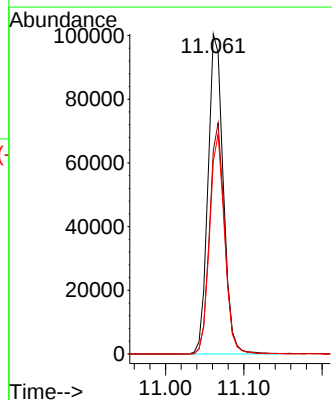
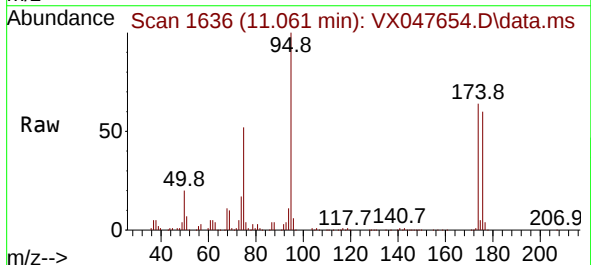
Instrument :
MSVOA_X
ClientSampleId :
RE122D2-20250910

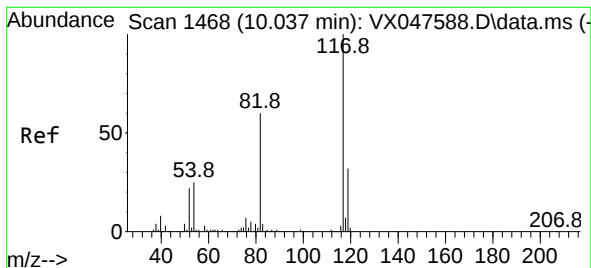
Tgt Ion:129 Resp: 6513
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 50.687 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047654.D
Acq: 18 Sep 2025 19:53

Tgt Ion: 95 Resp: 135505
Ion Ratio Lower Upper
95 100
174 71.4 0.0 141.6
176 67.7 0.0 138.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

Lab File: VX047654.D

Acq: 18 Sep 2025 19:53

Instrument :

MSVOA_X

ClientSampleId :

RE122D2-20250910

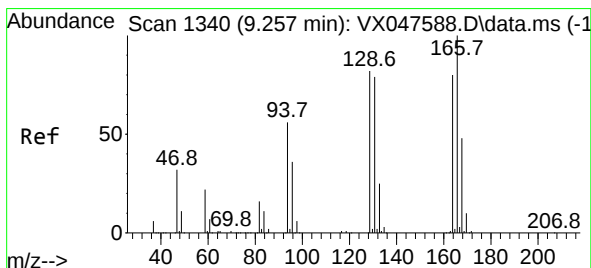
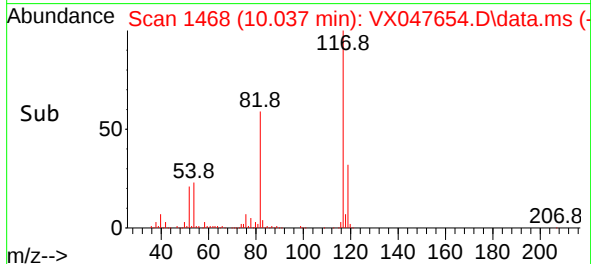
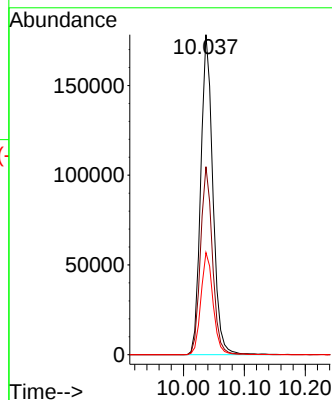
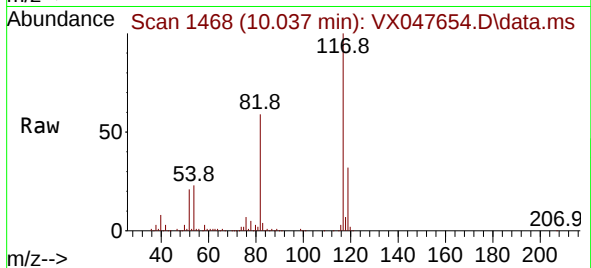
Tgt Ion:117 Resp: 246226

Ion Ratio Lower Upper

117 100

82 58.7 47.8 71.6

119 31.9 25.2 37.8



#64

Tetrachloroethene

Concen: 4.180 ug/l

RT: 9.256 min Scan# 1340

Delta R.T. -0.000 min

Lab File: VX047654.D

Acq: 18 Sep 2025 19:53

Tgt Ion:164 Resp: 6710

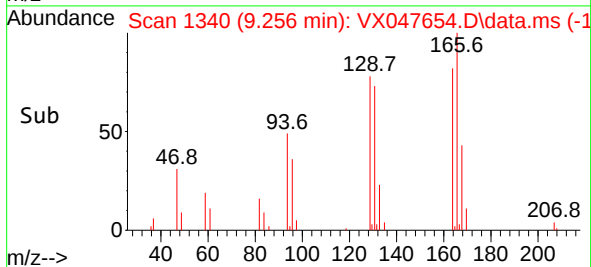
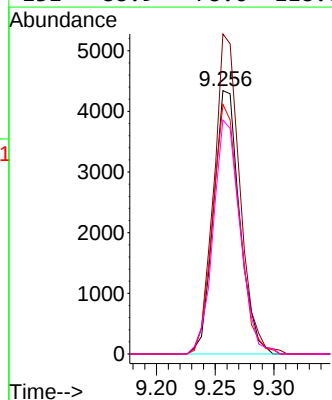
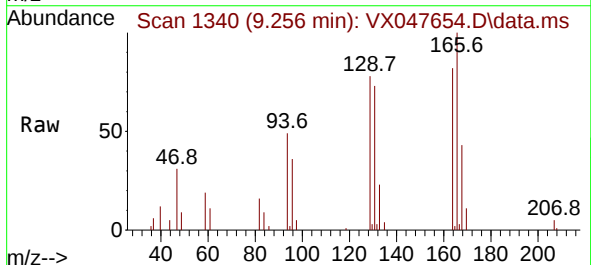
Ion Ratio Lower Upper

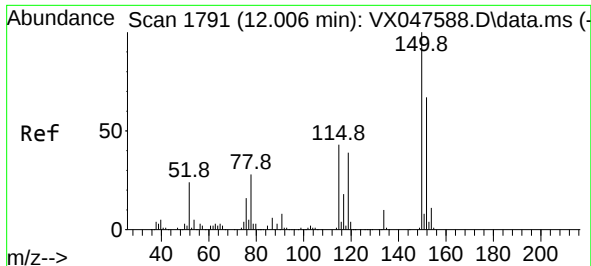
164 100

166 121.5 100.2 150.2

129 94.8 81.8 122.6

131 88.9 78.6 118.0

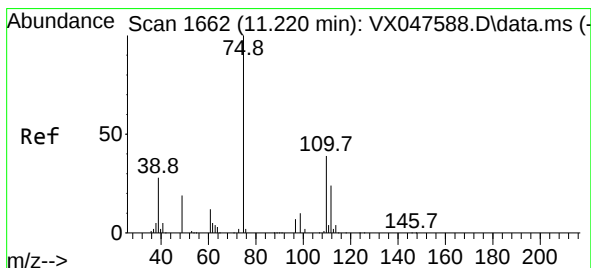
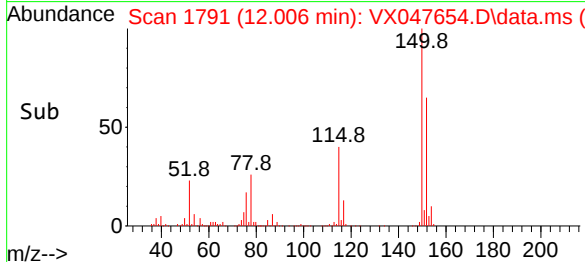
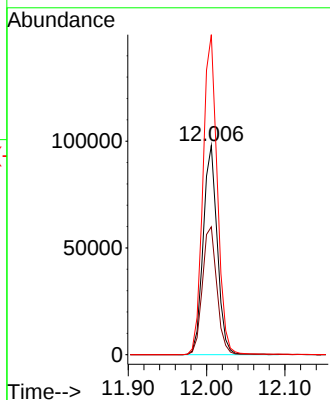
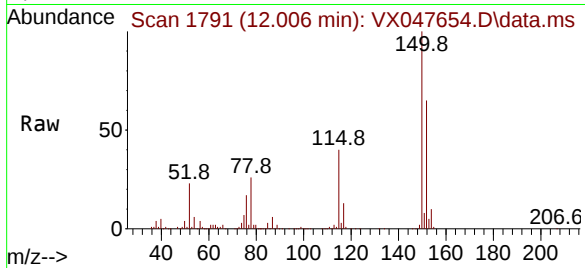




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX047654.D
 Acq: 18 Sep 2025 19:53

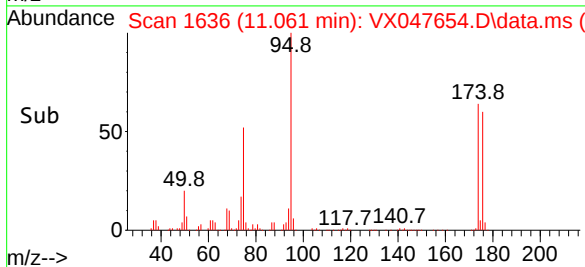
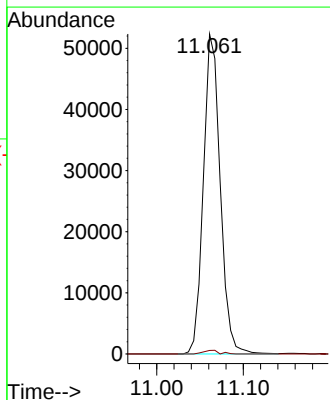
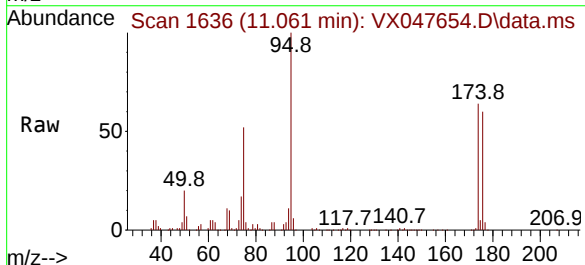
Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D2-20250910

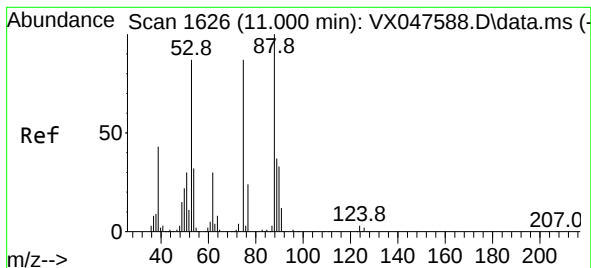
Tgt Ion:152 Resp: 122418
 Ion Ratio Lower Upper
 152 100
 115 62.9 44.9 134.5
 150 155.5 0.0 352.0



#76
 1,2,3-Trichloropropane
 Concen: 28.513 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX047654.D
 Acq: 18 Sep 2025 19:53

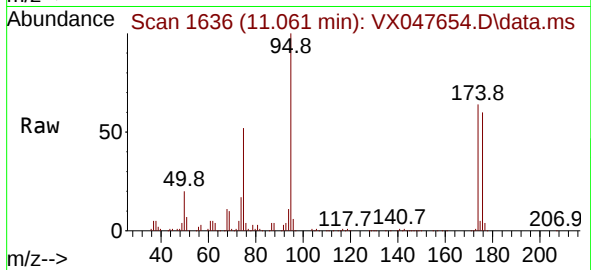
Tgt Ion: 75 Resp: 70673
 Ion Ratio Lower Upper
 75 100
 77 1.0 18.8 56.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 72.713 ug/l
 RT: 11.061 min Scan# 11
 Delta R.T. 0.061 min
 Lab File: VX047654.D
 Acq: 18 Sep 2025 19:53

Instrument :
 MSVOA_X
 ClientSampleId :
 RE122D2-20250910



Tgt Ion: 75 Resp: 70673
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.4 125.2#
 89 0.0 36.3 54.5#

