

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
 Data File : VX047686.D
 Acq On : 19 Sep 2025 18:42
 Operator : JC/MD
 Sample : Q3097-14
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE105D2-20250911

Quant Time: Sep 20 00:37:25 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)

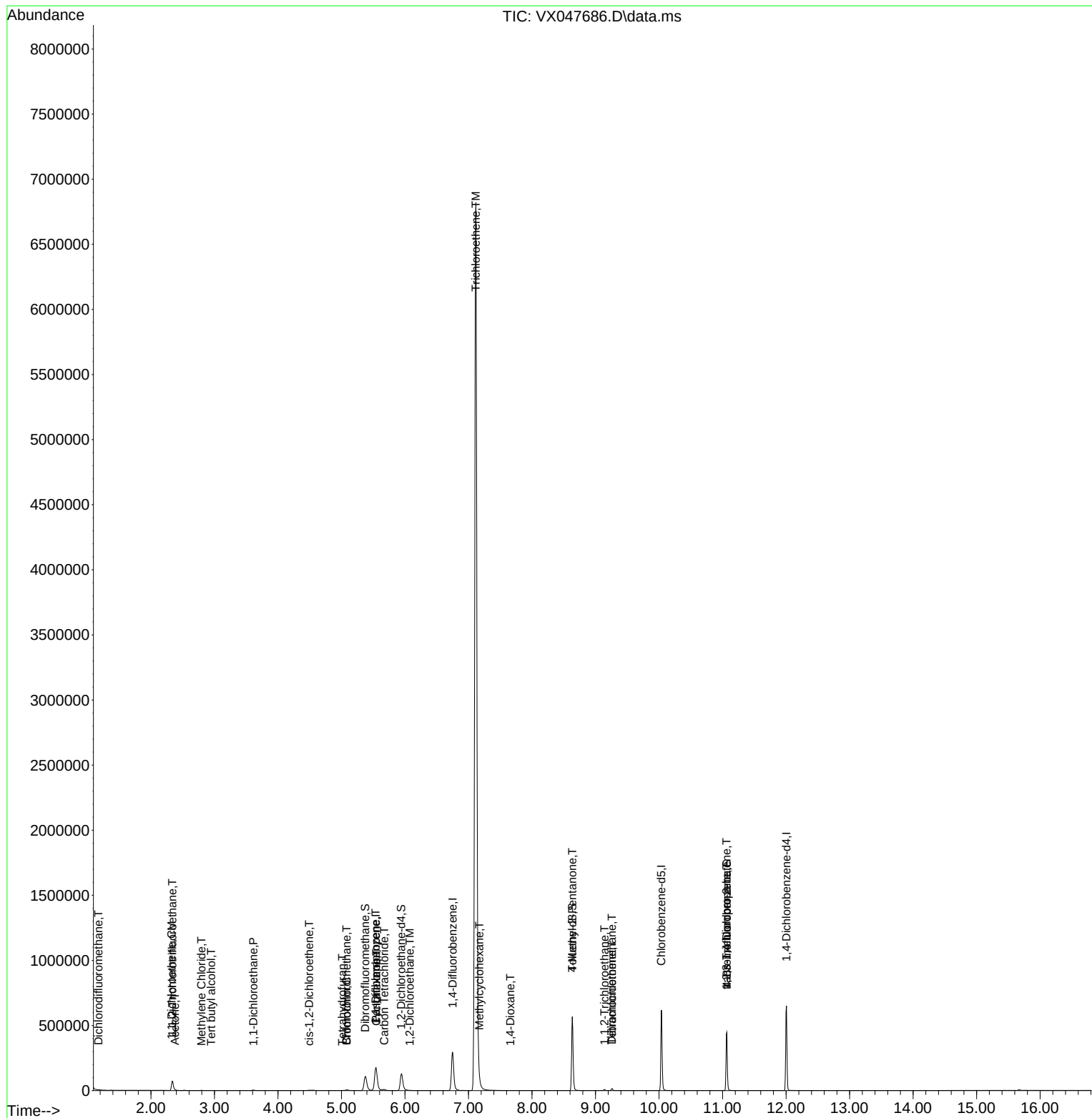
Internal Standards						
1) Pentafluorobenzene	5.544	168	177032	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	325665	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	279784	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	134519	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	140568	49.884	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	99.760%
35) Dibromofluoromethane	5.373	113	106323	48.681	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.360%
50) Toluene-d8	8.635	98	344065	45.527	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	91.060%#
62) 4-Bromofluorobenzene	11.067	95	132736	46.279	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	92.560%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.172	85	515	0.281	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.337	101	27416	13.389	ug/l	99
11) Tert butyl alcohol	2.947	59	141	0.449	ug/l #	72
12) 1,1-Dichloroethene	2.325	96	7521	3.576	ug/l	96
16) Acetone	2.380	43	2150	1.755	ug/l	92
20) Methylene Chloride	2.794	84	856	0.330	ug/l #	83
24) 1,1-Dichloroethane	3.611	63	4949	1.107	ug/l #	92
27) cis-1,2-Dichloroethene	4.489	96	1759	0.634	ug/l	98
28) Bromochloromethane	5.080	49	503	0.258	ug/l #	15
29) Tetrahydrofuran	5.013	42	971	1.056	ug/l #	75
30) Chloroform	5.080	83	6861	1.519	ug/l	99
31) Cyclohexane	5.550	56	4188	1.125	ug/l #	1
36) 1,1-Dichloropropene	5.538	75	15576	4.881	ug/l #	50
38) Carbon Tetrachloride	5.672	117	7859	2.266	ug/l	94
39) Methylcyclohexane	7.171	83	1280	0.353	ug/l #	1
42) 1,2-Dichloroethane	6.074	62	766	0.208	ug/l #	76
44) Trichloroethene	7.117	130	2881000	1229.366	ug/l	96
49) 1,4-Dioxane	7.659	88	326	11.555	ug/l #	57
51) 4-Methyl-2-Pentanone	8.635	43	1692	0.545	ug/l #	1
55) 1,1,2-Trichloroethane	9.141	97	2411	1.047	ug/l #	82
60) Dibromochloromethane	9.256	129	2967	1.118	ug/l #	11
64) Tetrachloroethene	9.256	164	2930	1.606	ug/l #	93
76) 1,2,3-Trichloropropane	11.061	75	68091	25.000	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	68091	63.755	ug/l #	8

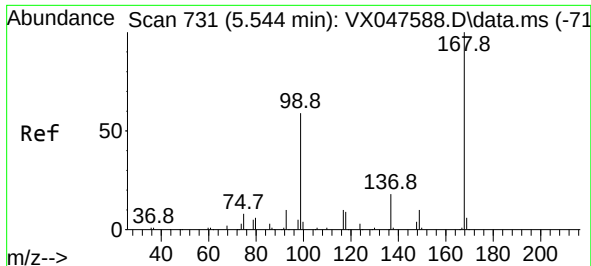
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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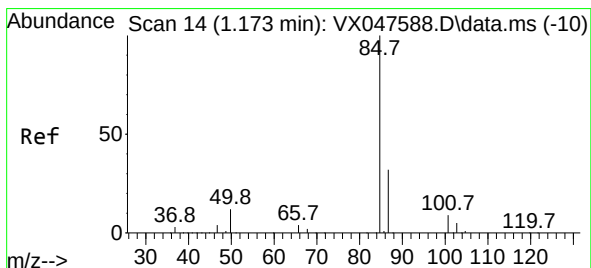
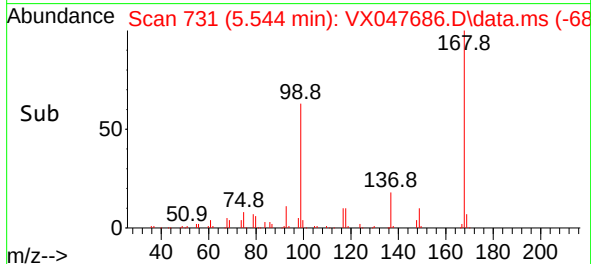
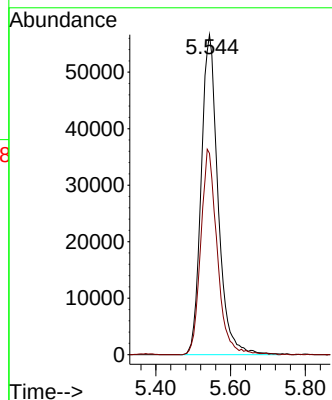
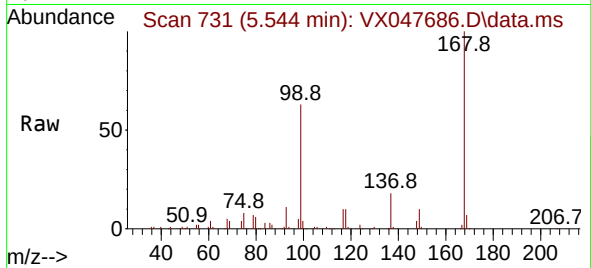




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

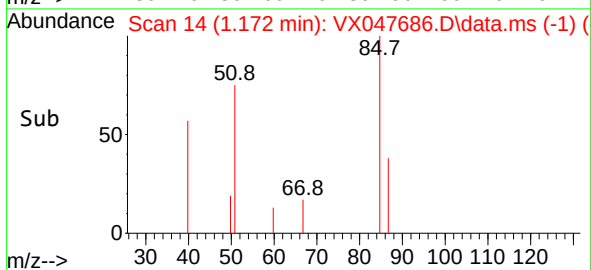
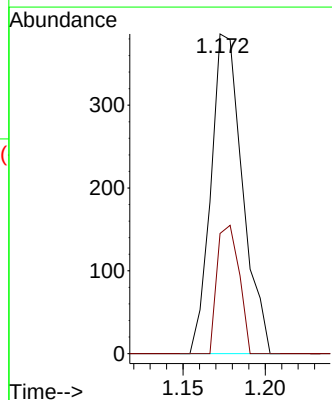
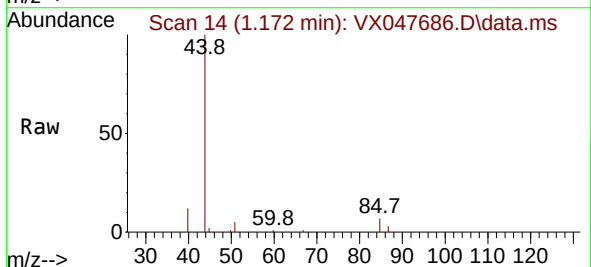
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

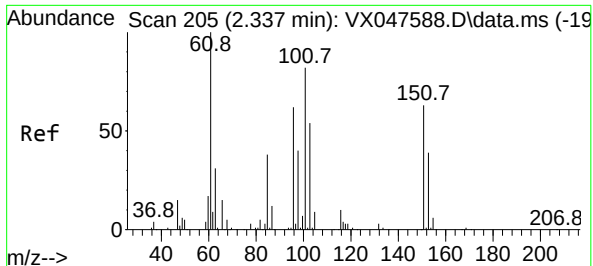
Tgt Ion:168 Resp: 177032
Ion Ratio Lower Upper
168 100
99 62.9 48.8 73.2



#2
Dichlorodifluoromethane
Concen: 0.281 ug/l
RT: 1.172 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion: 85 Resp: 515
Ion Ratio Lower Upper
85 100
87 37.6 15.8 47.3

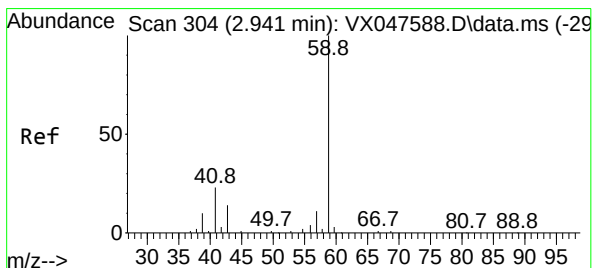
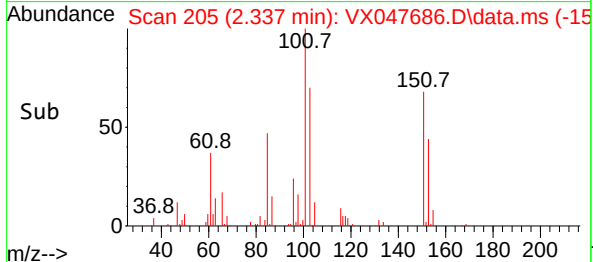
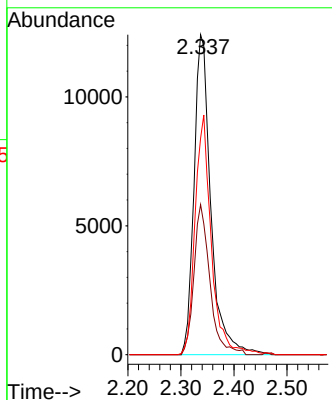
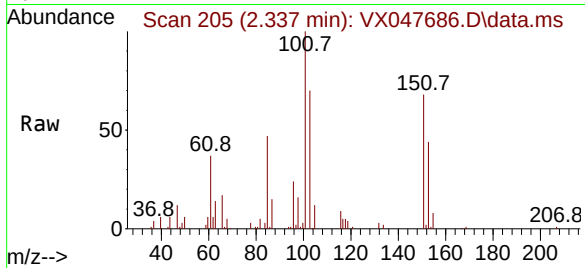




#9
1,1,2-Trichlorotrifluoroethane
Concen: 13.389 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

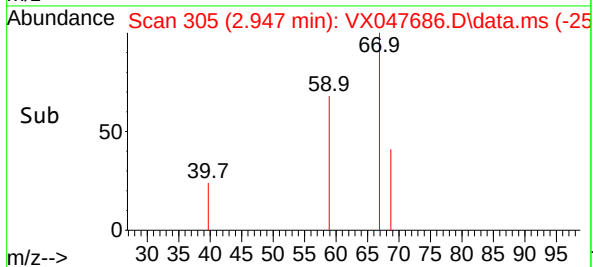
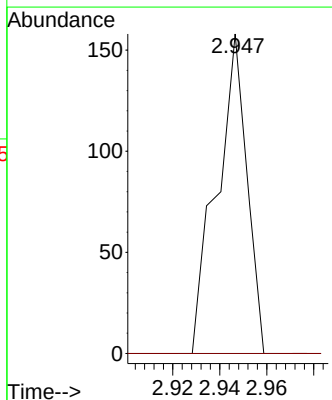
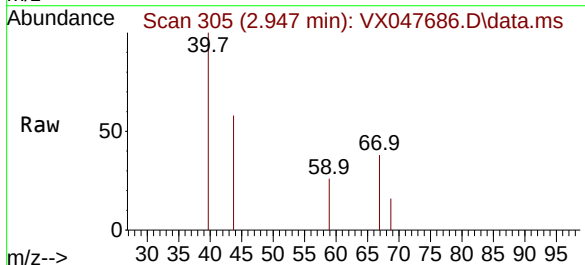
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

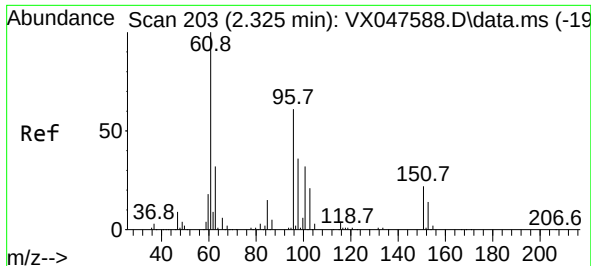
Tgt Ion:101 Resp: 27416
Ion Ratio Lower Upper
101 100
85 44.5 35.5 53.3
151 72.4 59.4 89.0



#11
Tert butyl alcohol
Concen: 0.449 ug/l
RT: 2.947 min Scan# 305
Delta R.T. 0.006 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion: 59 Resp: 141
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#12

1,1-Dichloroethene

Concen: 3.576 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX047686.D

Acq: 19 Sep 2025 18:42

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20250911

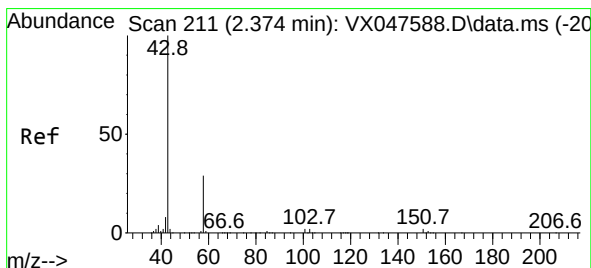
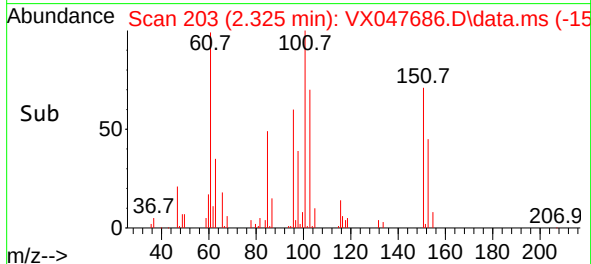
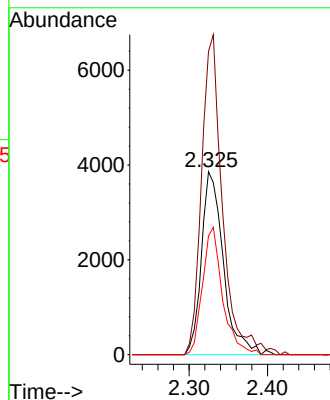
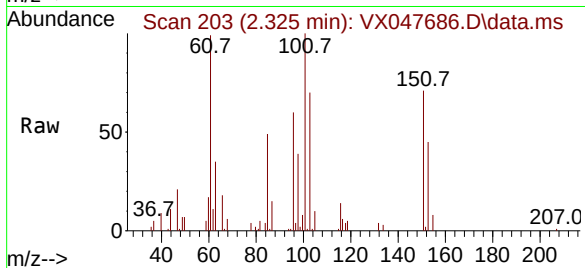
Tgt Ion: 96 Resp: 7521

Ion Ratio Lower Upper

96 100

61 165.7 131.0 196.6

98 68.0 47.7 71.5



#16

Acetone

Concen: 1.755 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX047686.D

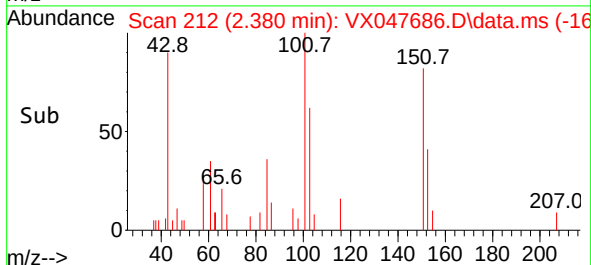
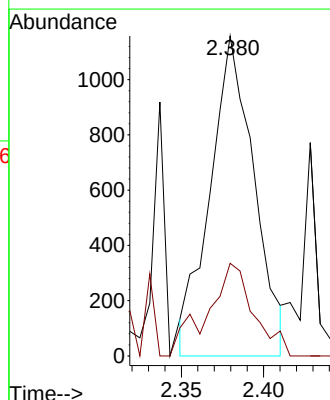
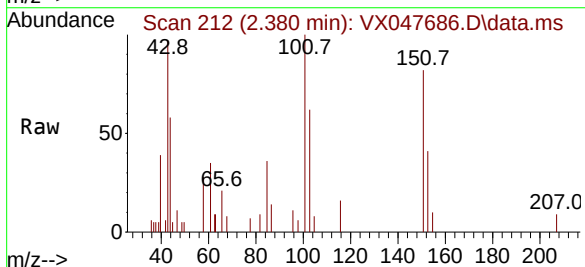
Acq: 19 Sep 2025 18:42

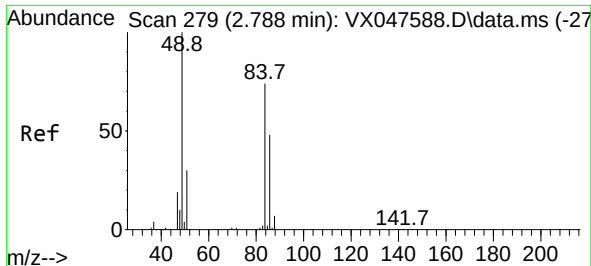
Tgt Ion: 43 Resp: 2150

Ion Ratio Lower Upper

43 100

58 25.1 23.4 35.0

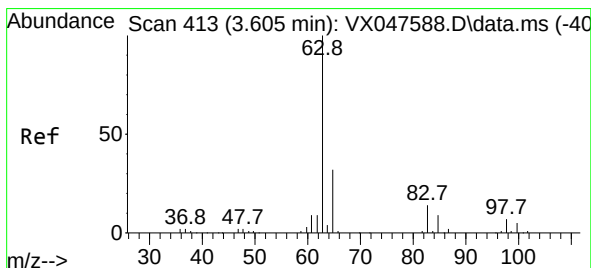
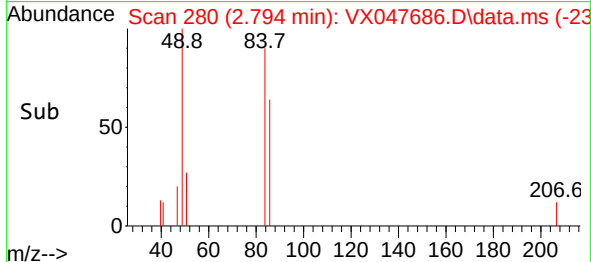
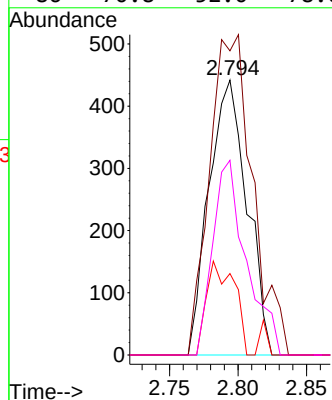
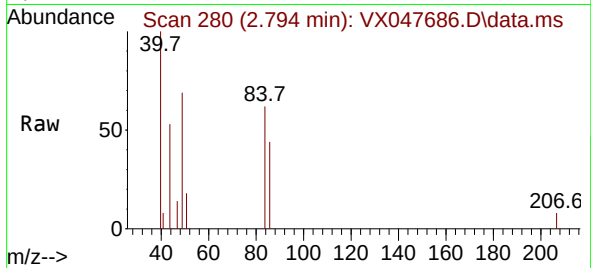




#20
Methylene Chloride
Concen: 0.330 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

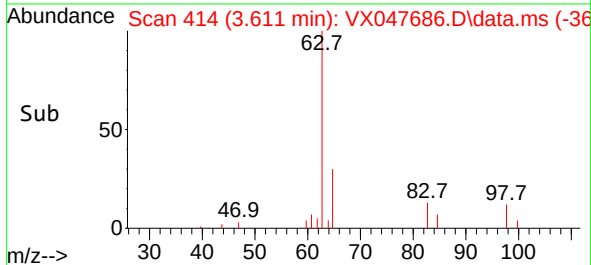
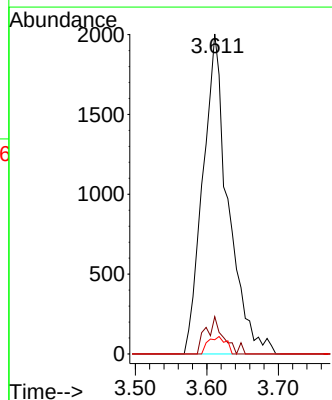
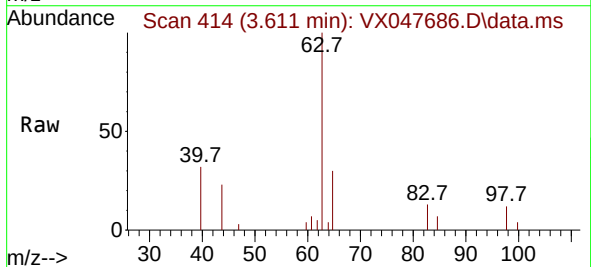
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

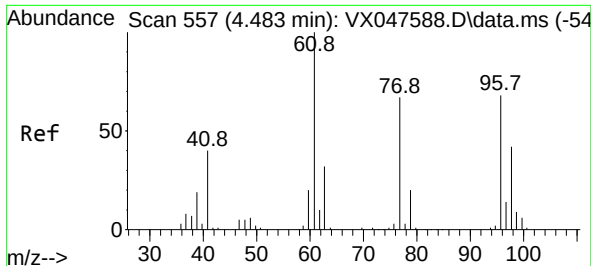
Tgt Ion: 84 Resp: 856
Ion Ratio Lower Upper
84 100
49 110.6 108.6 162.8
51 29.6 32.6 48.8#
86 70.8 52.0 78.0



#24
1,1-Dichloroethane
Concen: 1.107 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion: 63 Resp: 4949
Ion Ratio Lower Upper
63 100
98 11.7 3.8 11.2#
100 4.4 2.3 6.9





#27

cis-1,2-Dichloroethene

Concen: 0.634 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX047686.D

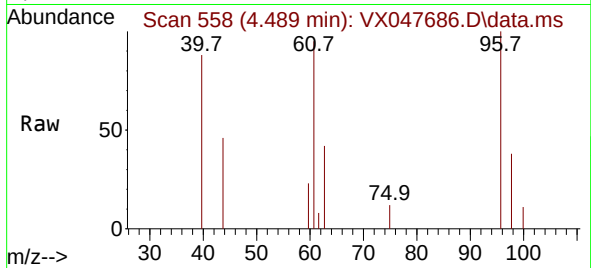
Acq: 19 Sep 2025 18:42

Instrument :

MSVOA_X

ClientSampleId :

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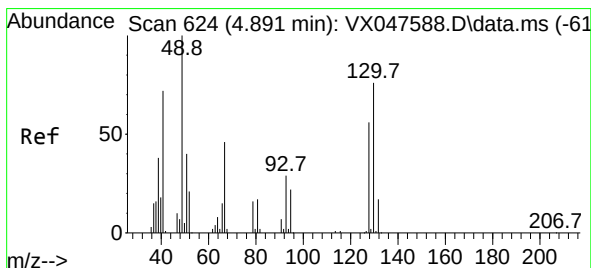
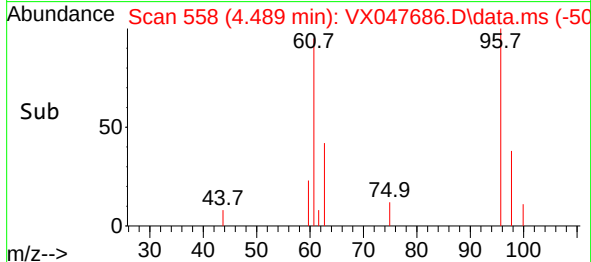
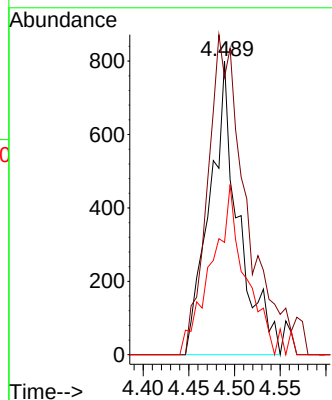
Tgt Ion: 96 Resp: 1759

Ion Ratio Lower Upper

96 100

61 149.7 0.0 303.2

98 66.9 0.0 127.8



#28

Bromochloromethane

Concen: 0.258 ug/l

RT: 5.080 min Scan# 655

Delta R.T. 0.189 min

Lab File: VX047686.D

Acq: 19 Sep 2025 18:42

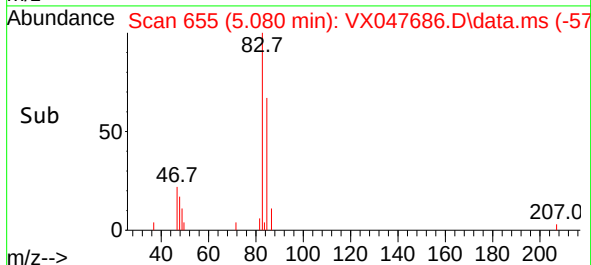
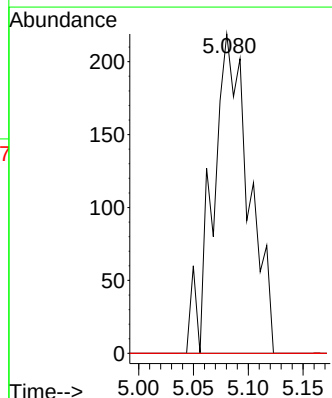
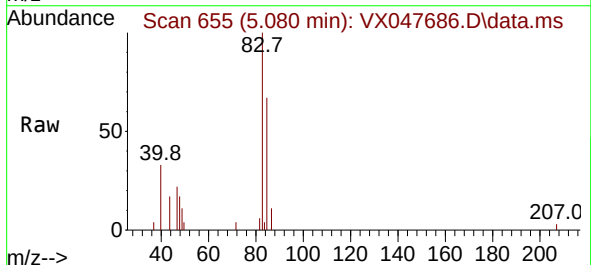
Tgt Ion: 49 Resp: 503

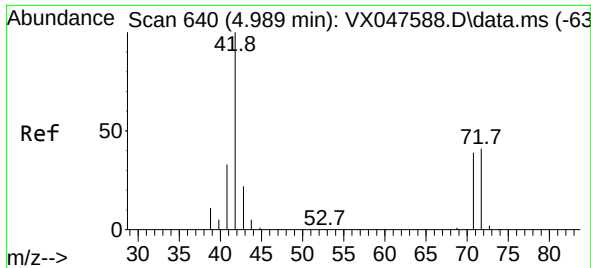
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.2

130 0.0 57.8 86.8#

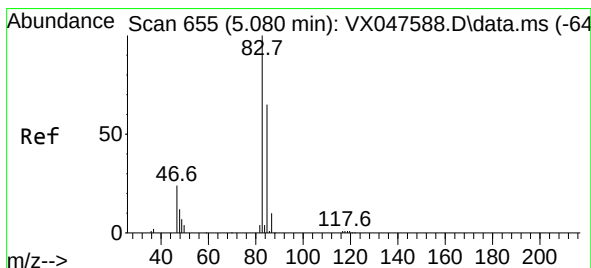
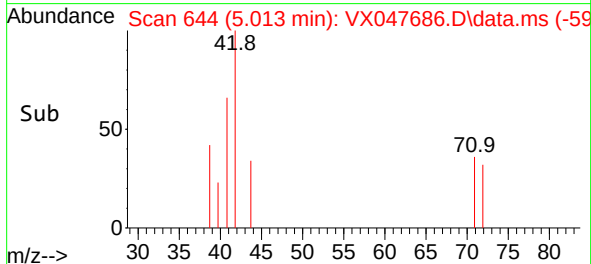
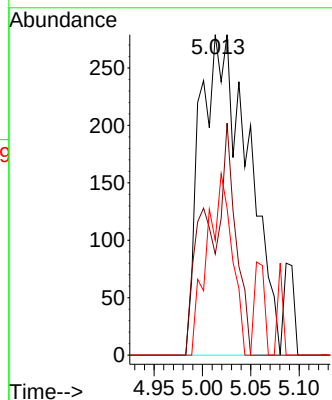
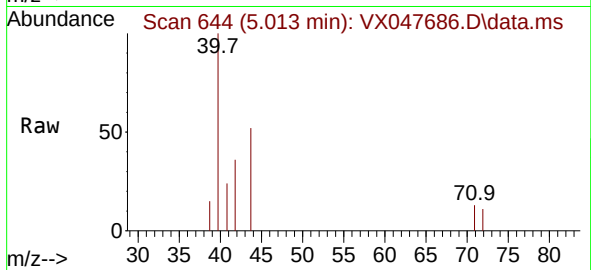




#29
Tetrahydrofuran
Concen: 1.056 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.024 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

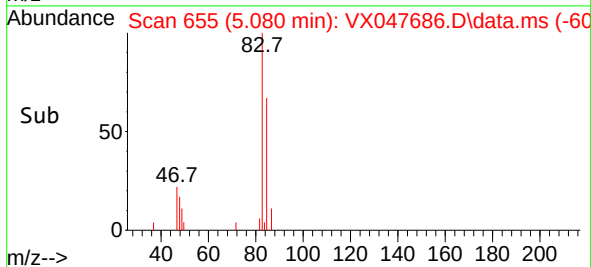
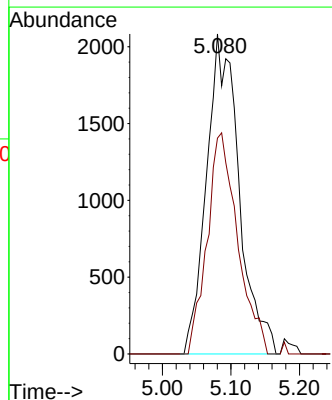
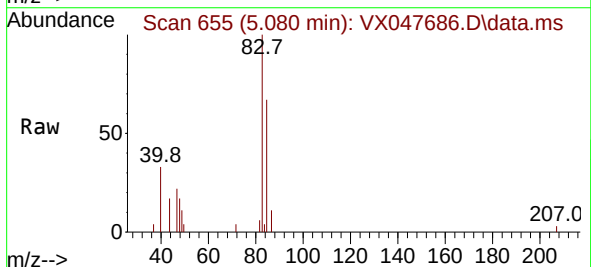
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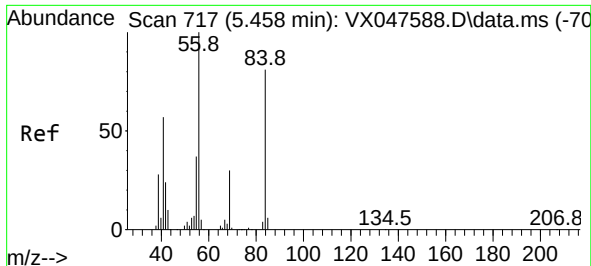
Tgt Ion: 42 Resp: 971
Ion Ratio Lower Upper
42 100
72 21.9 34.2 51.2#
71 29.1 31.9 47.9#



#30
Chloroform
Concen: 1.519 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion: 83 Resp: 6861
Ion Ratio Lower Upper
83 100
85 65.1 51.8 77.6

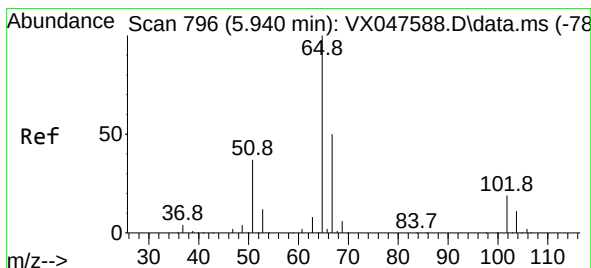
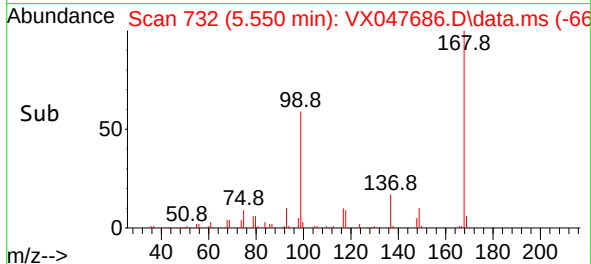
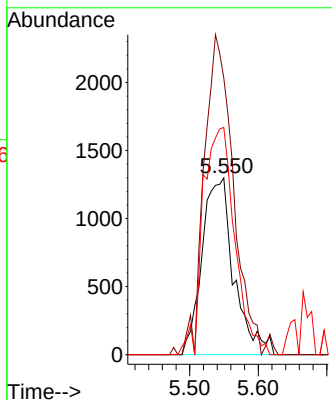
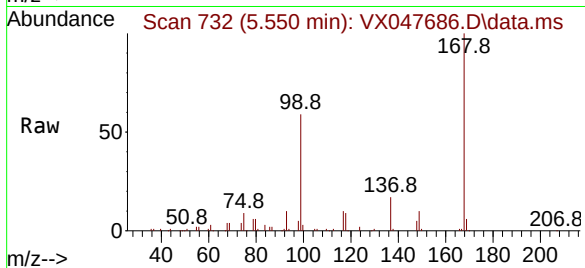




#31
Cyclohexane
Concen: 1.125 ug/l
RT: 5.550 min Scan# 717
Delta R.T. 0.091 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

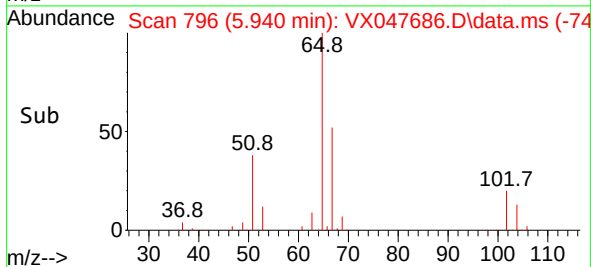
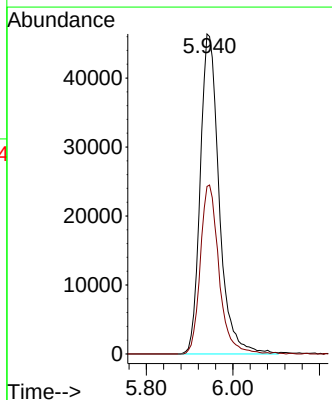
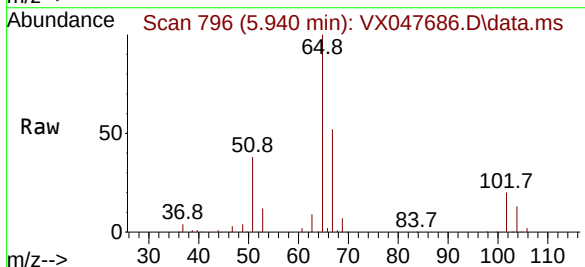
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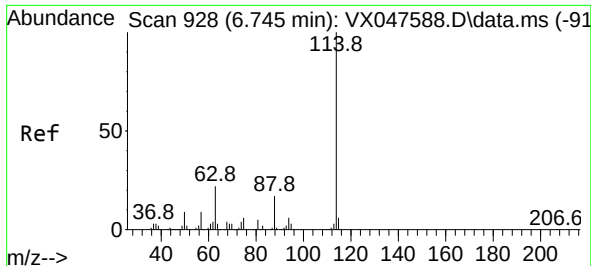
Tgt Ion: 56 Resp: 4188
Ion Ratio Lower Upper
56 100
69 156.5 23.8 35.8#
84 128.5 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 49.884 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion: 65 Resp: 140568
Ion Ratio Lower Upper
65 100
67 52.0 0.0 103.0

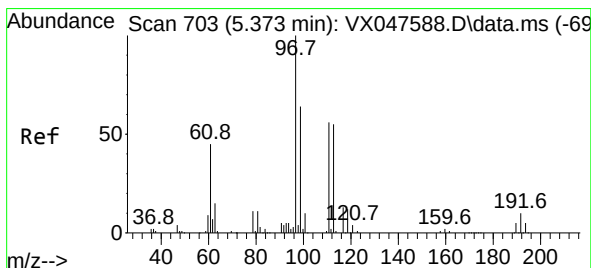
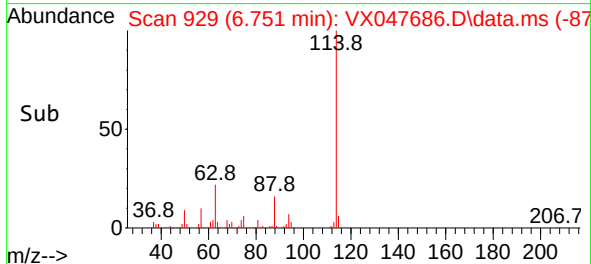
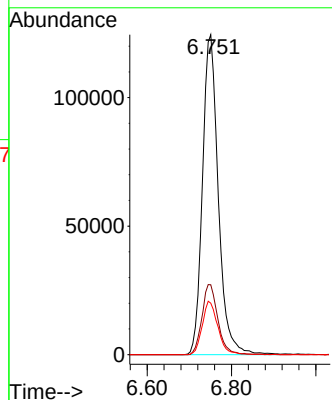
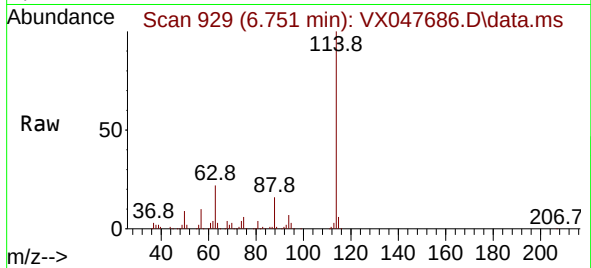




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

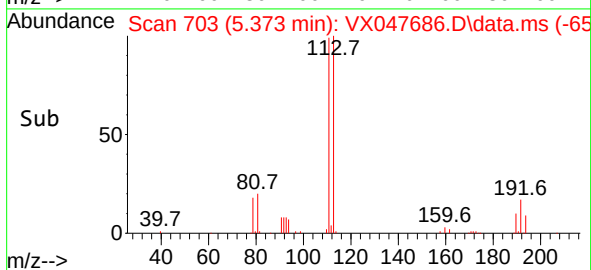
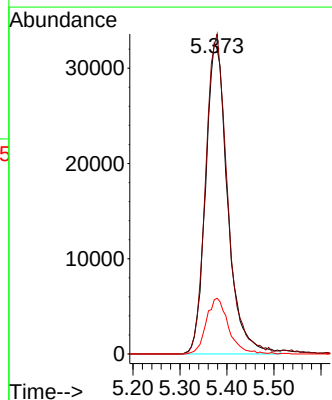
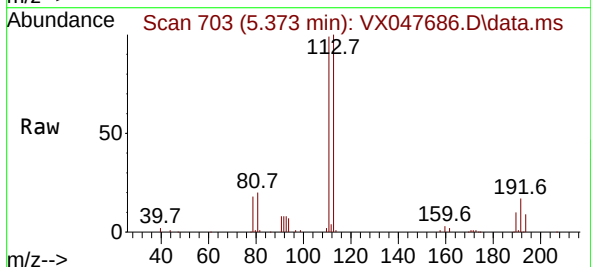
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

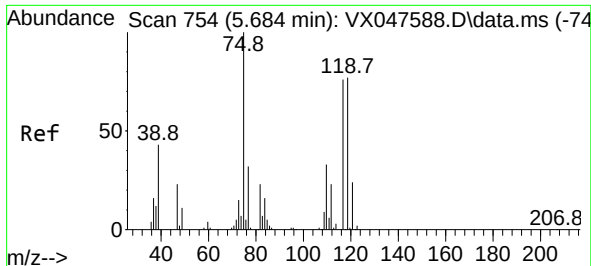
Tgt Ion:114 Resp: 325665
Ion Ratio Lower Upper
114 100
63 21.8 0.0 44.0
88 16.1 0.0 34.2



#35
Dibromofluoromethane
Concen: 48.681 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion:113 Resp: 106323
Ion Ratio Lower Upper
113 100
111 102.1 80.9 121.3
192 18.1 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.881 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX047686.D

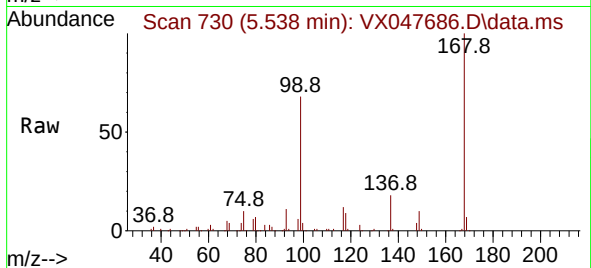
Acq: 19 Sep 2025 18:42

Instrument :

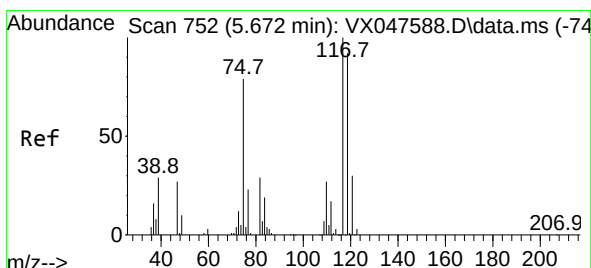
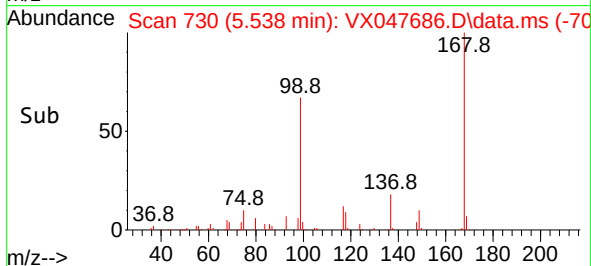
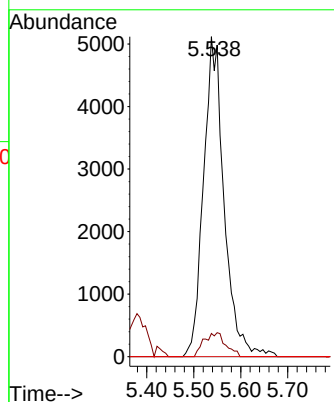
MSVOA_X

ClientSampleId :

RE105D2-20250911



Tgt Ion:	75	Resp:	15576
Ion Ratio	Lower	Upper	
75	100		
110	7.9	16.7	50.1#
77	0.0	24.3	36.5#



#38

Carbon Tetrachloride

Concen: 2.266 ug/l

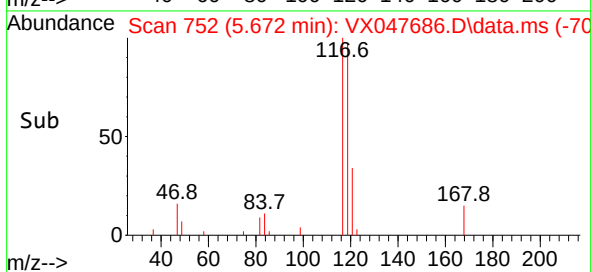
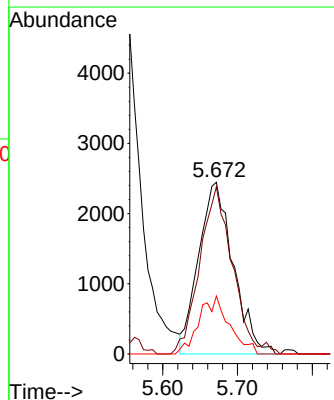
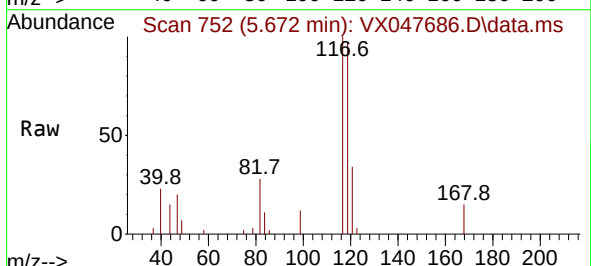
RT: 5.672 min Scan# 752

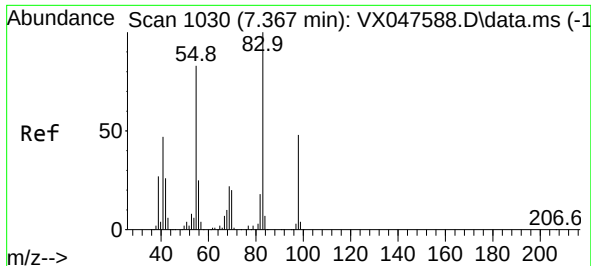
Delta R.T. -0.000 min

Lab File: VX047686.D

Acq: 19 Sep 2025 18:42

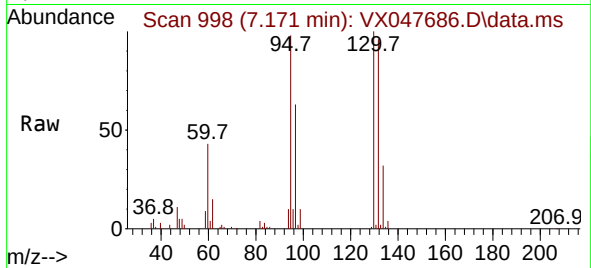
Tgt Ion:	117	Resp:	7859
Ion Ratio	Lower	Upper	
117	100		
119	97.4	73.4	110.2
121	33.8	23.8	35.6



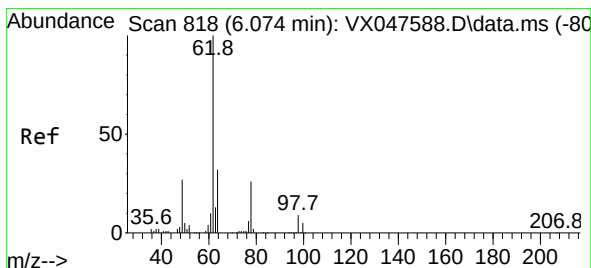
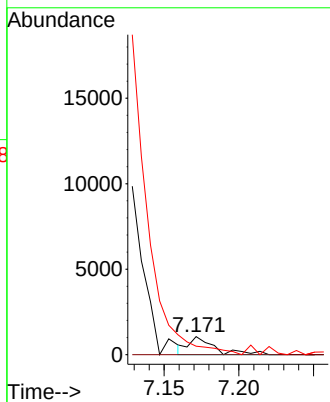
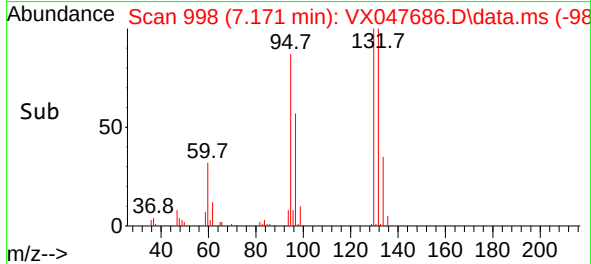


#39
Methylcyclohexane
Concen: 0.353 ug/l
RT: 7.171 min Scan# 98
Delta R.T. -0.195 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

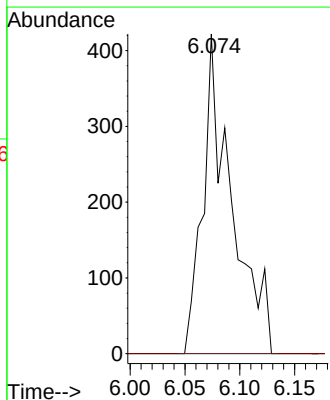
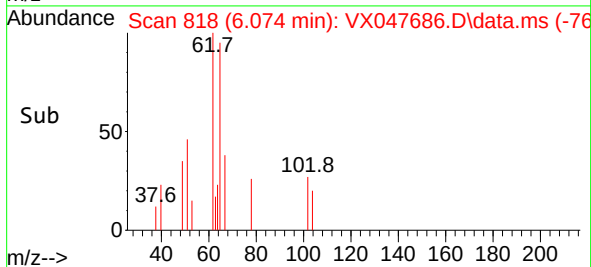
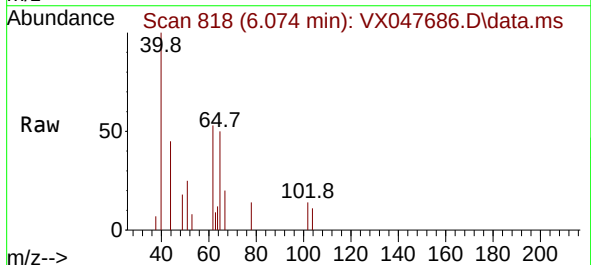


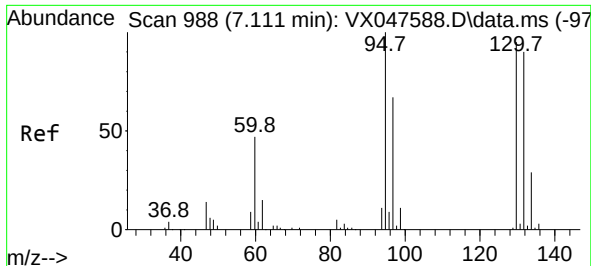
Tgt Ion: 83 Resp: 1280
Ion Ratio Lower Upper
83 100
55 0.0 66.4 99.6#
98 217.6 38.1 57.1#



#42
1,2-Dichloroethane
Concen: 0.208 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion: 62 Resp: 766
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.0

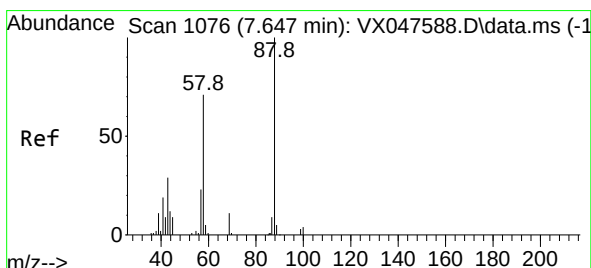
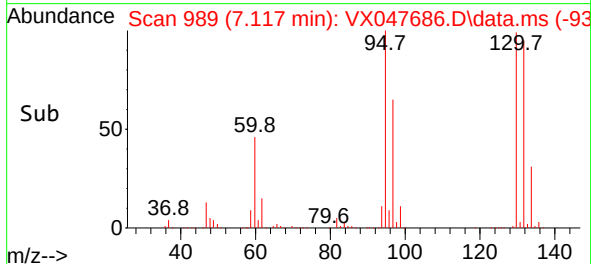
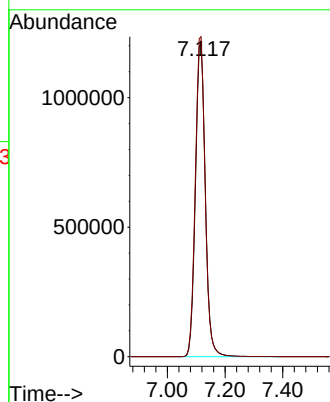
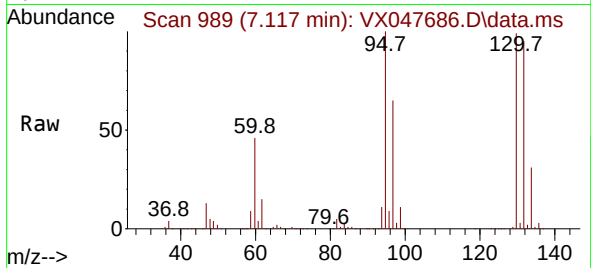




#44
Trichloroethene
Concen: 1229.366 ug/l
RT: 7.117 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

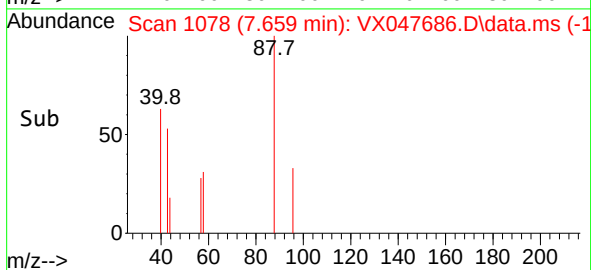
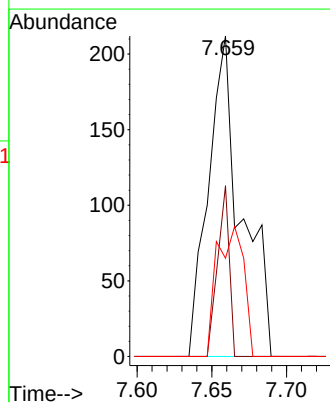
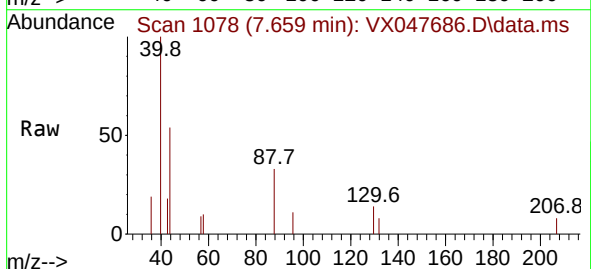
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

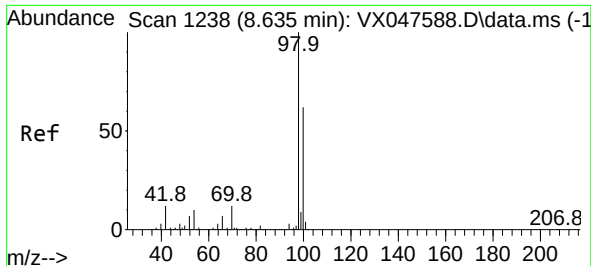
Tgt Ion:130 Resp: 2881000
Ion Ratio Lower Upper
130 100
95 101.5 0.0 210.8



#49
1,4-Dioxane
Concen: 11.555 ug/l
RT: 7.659 min Scan# 1078
Delta R.T. 0.012 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion: 88 Resp: 326
Ion Ratio Lower Upper
88 100
43 18.7 30.2 45.2#
58 32.8 59.5 89.3#

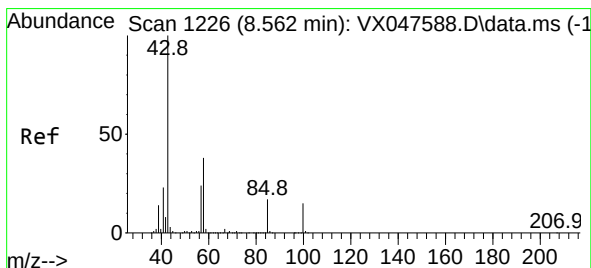
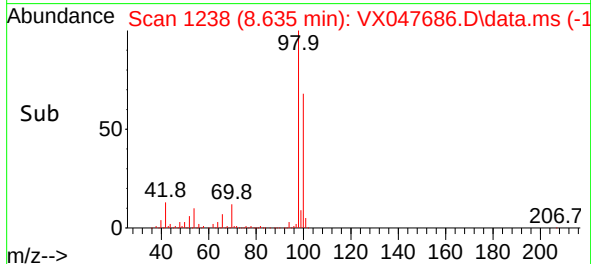
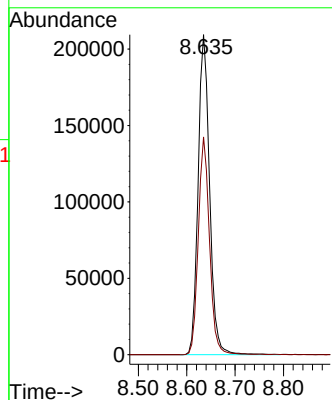
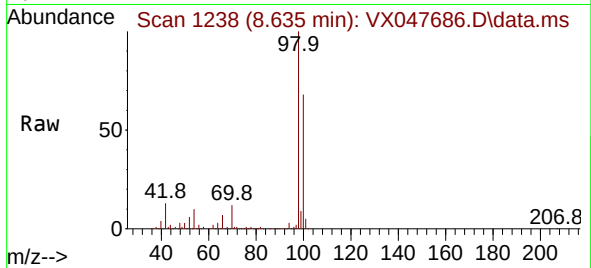




#50
Toluene-d8
Concen: 45.527 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

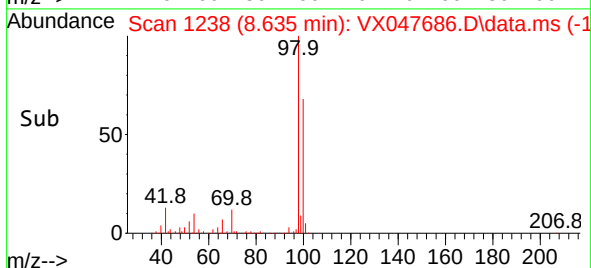
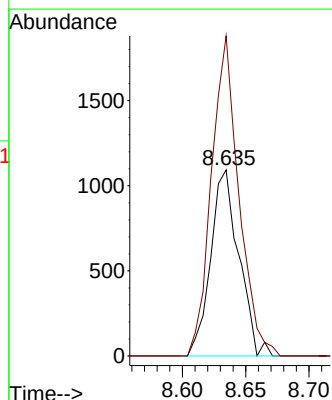
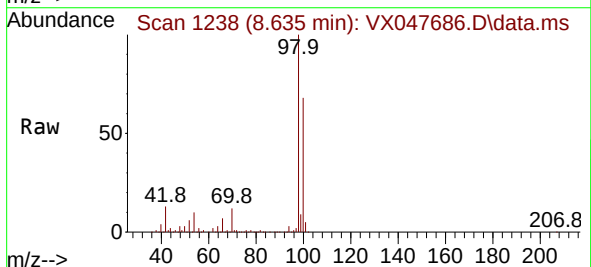
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

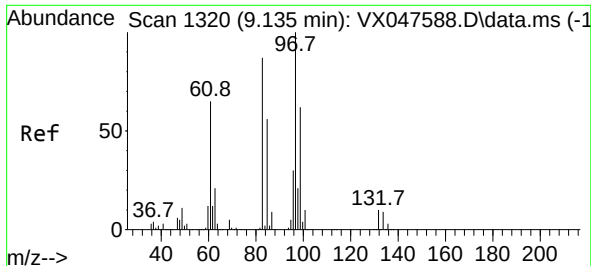
Tgt Ion: 98 Resp: 344065
Ion Ratio Lower Upper
98 100
100 66.4 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.545 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.073 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion: 43 Resp: 1692
Ion Ratio Lower Upper
43 100
58 167.7 30.3 45.5#





#55

1,1,2-Trichloroethane

Concen: 1.047 ug/l

RT: 9.141 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX047686.D

Acq: 19 Sep 2025 18:42

Instrument :

MSVOA_X

ClientSampleId :

RE105D2-20250911

Tgt Ion: 97 Resp: 2411

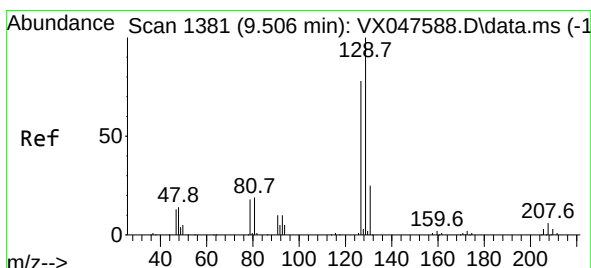
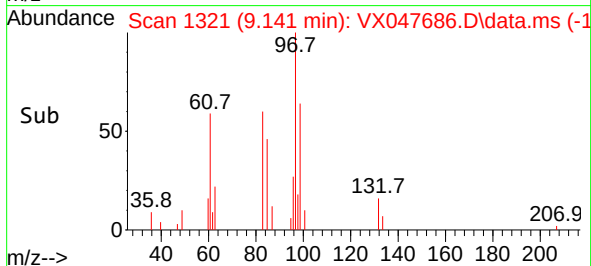
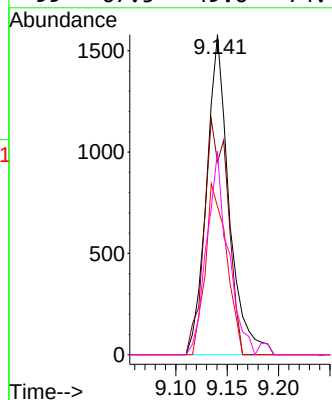
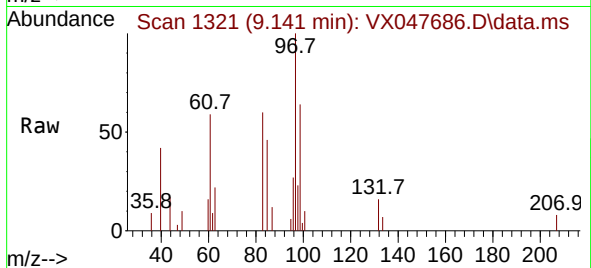
Ion Ratio Lower Upper

97 100

83 60.2 69.6 104.4#

85 46.3 45.0 67.6

99 67.5 49.6 74.4



#60

Dibromochloromethane

Concen: 1.118 ug/l

RT: 9.256 min Scan# 1340

Delta R.T. -0.250 min

Lab File: VX047686.D

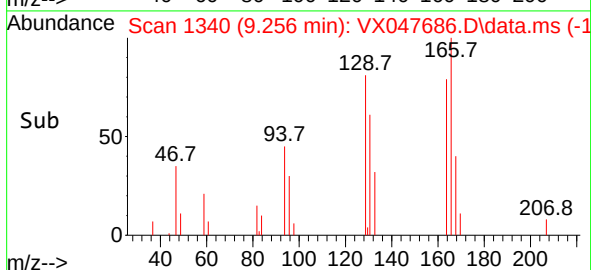
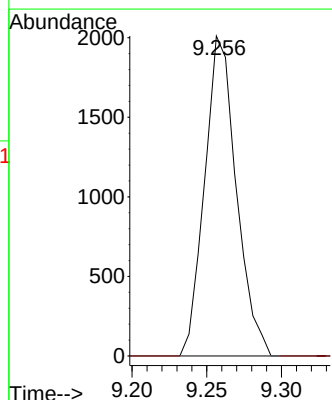
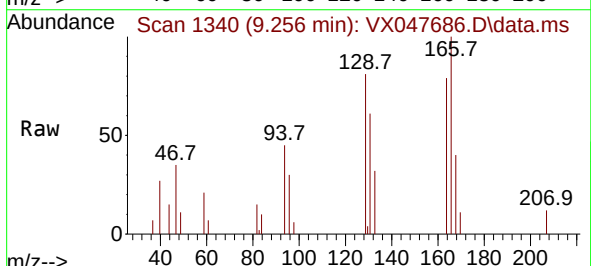
Acq: 19 Sep 2025 18:42

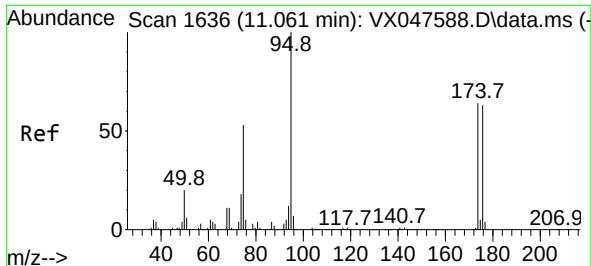
Tgt Ion:129 Resp: 2967

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#

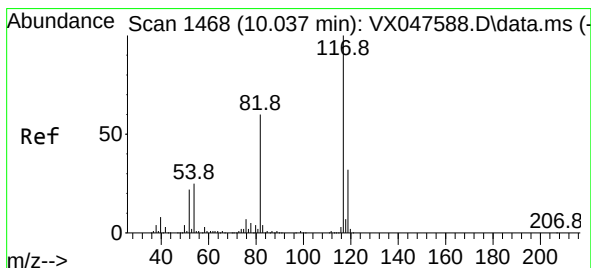
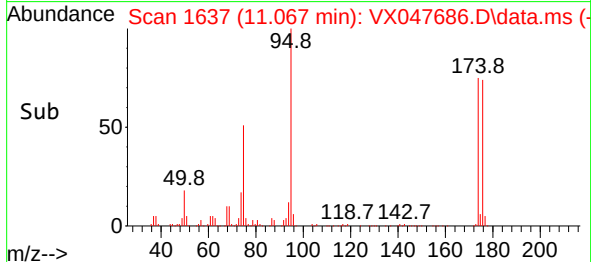
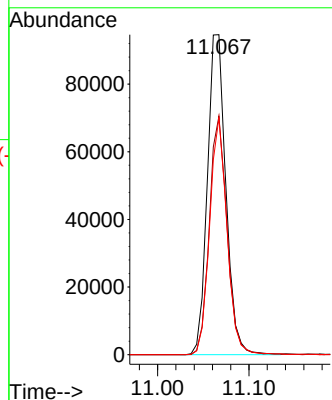
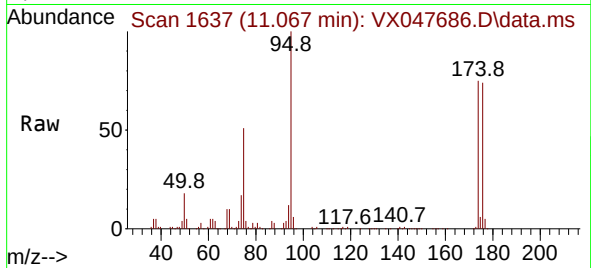




#62
4-Bromofluorobenzene
Concen: 46.279 ug/l
RT: 11.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

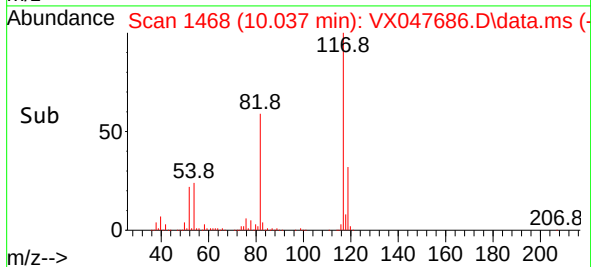
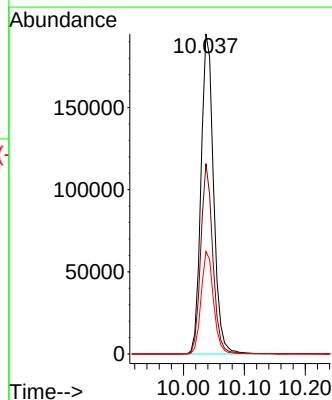
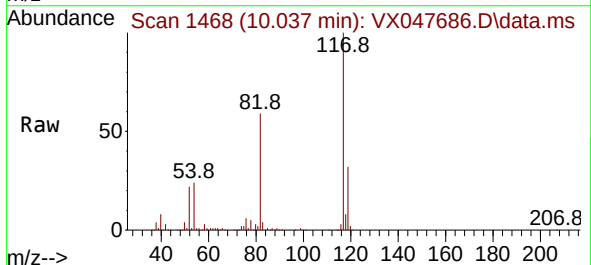
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

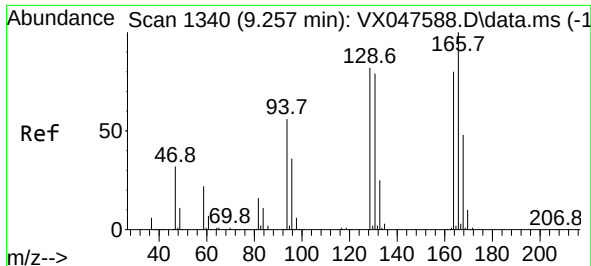
Tgt Ion: 95 Resp: 132736
Ion Ratio Lower Upper
95 100
174 71.6 0.0 141.6
176 69.5 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

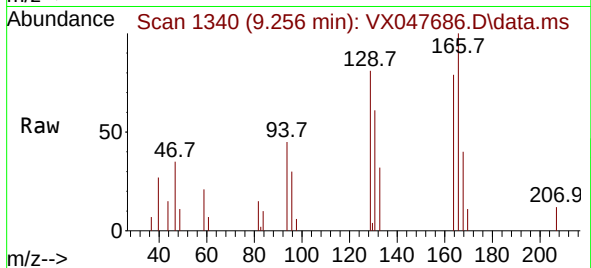
Tgt Ion: 117 Resp: 279784
Ion Ratio Lower Upper
117 100
82 59.5 47.8 71.6
119 32.1 25.2 37.8



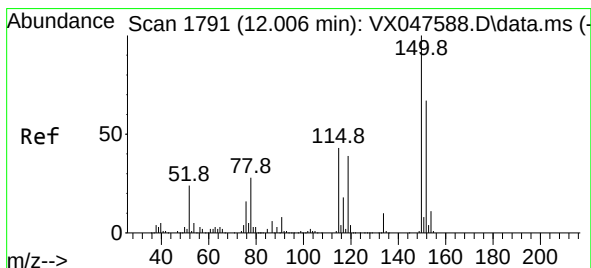
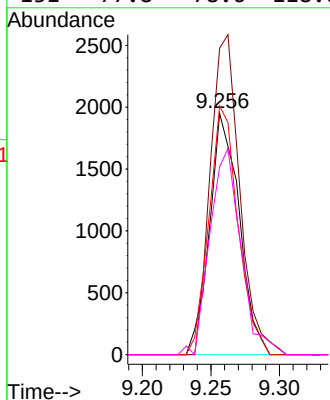
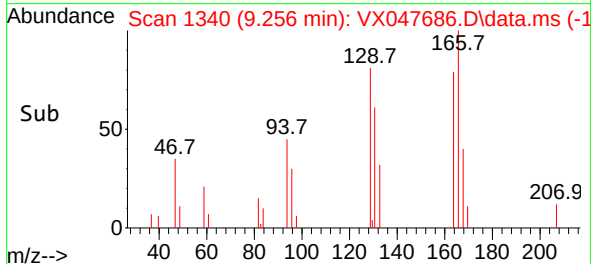


#64
Tetrachloroethene
Concen: 1.606 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

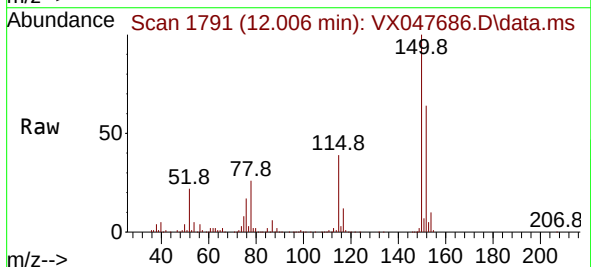
Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911



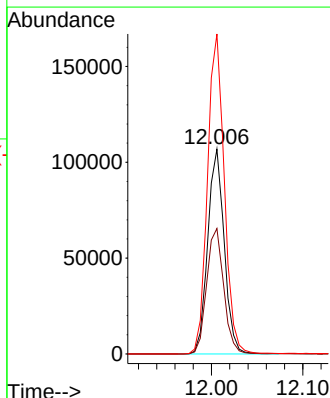
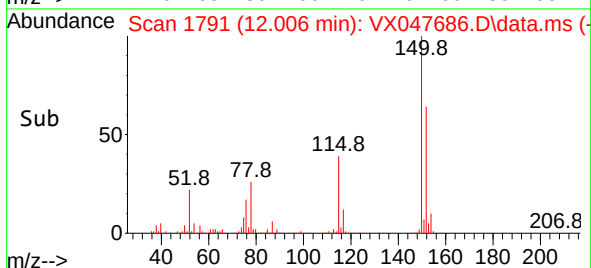
Tgt Ion:164	Resp:	2930	
Ion	Ratio	Lower	Upper
164	100		
166	127.1	100.2	150.2
129	103.1	81.8	122.6
131	77.8	78.6	118.0#

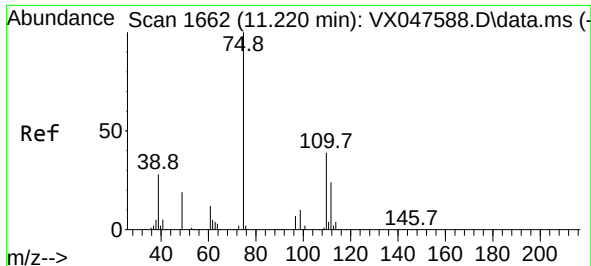


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42



Tgt Ion:152	Resp:	134519	
Ion	Ratio	Lower	Upper
152	100		
115	63.2	44.9	134.5
150	159.0	0.0	352.0

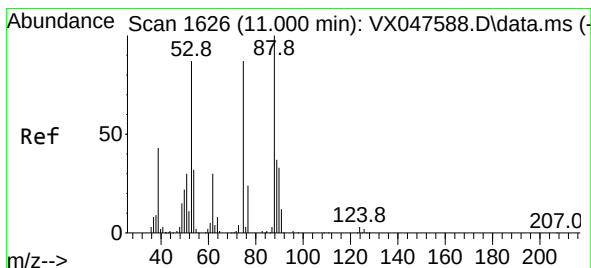
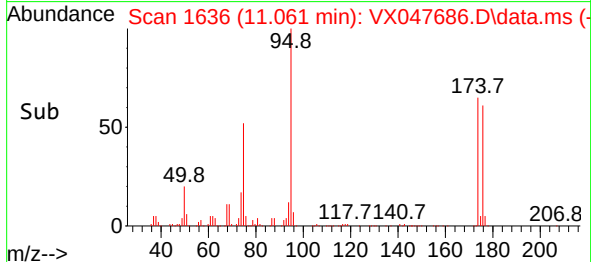
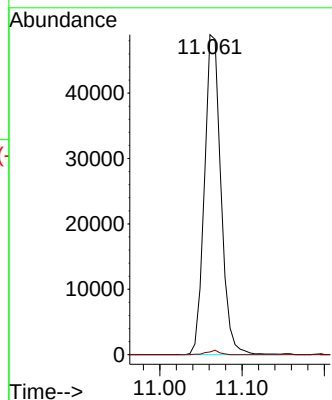
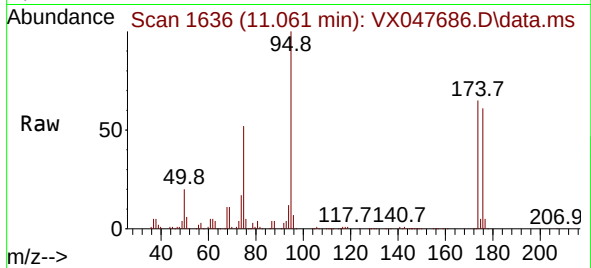




#76
1,2,3-Trichloropropane
Concen: 25.000 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Instrument :
MSVOA_X
ClientSampleId :
RE105D2-20250911

Tgt Ion: 75 Resp: 68091
Ion Ratio Lower Upper
75 100
77 1.1 18.8 56.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 63.755 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX047686.D
Acq: 19 Sep 2025 18:42

Tgt Ion: 75 Resp: 68091
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#

