

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121625\
 Data File : VX048906.D
 Acq On : 16 Dec 2025 22:18
 Operator : JC/MD
 Sample : Q3849-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OW-07B-65-121125

Quant Time: Dec 17 03:31:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 17 03:22:16 2025
 Response via : Initial Calibration

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

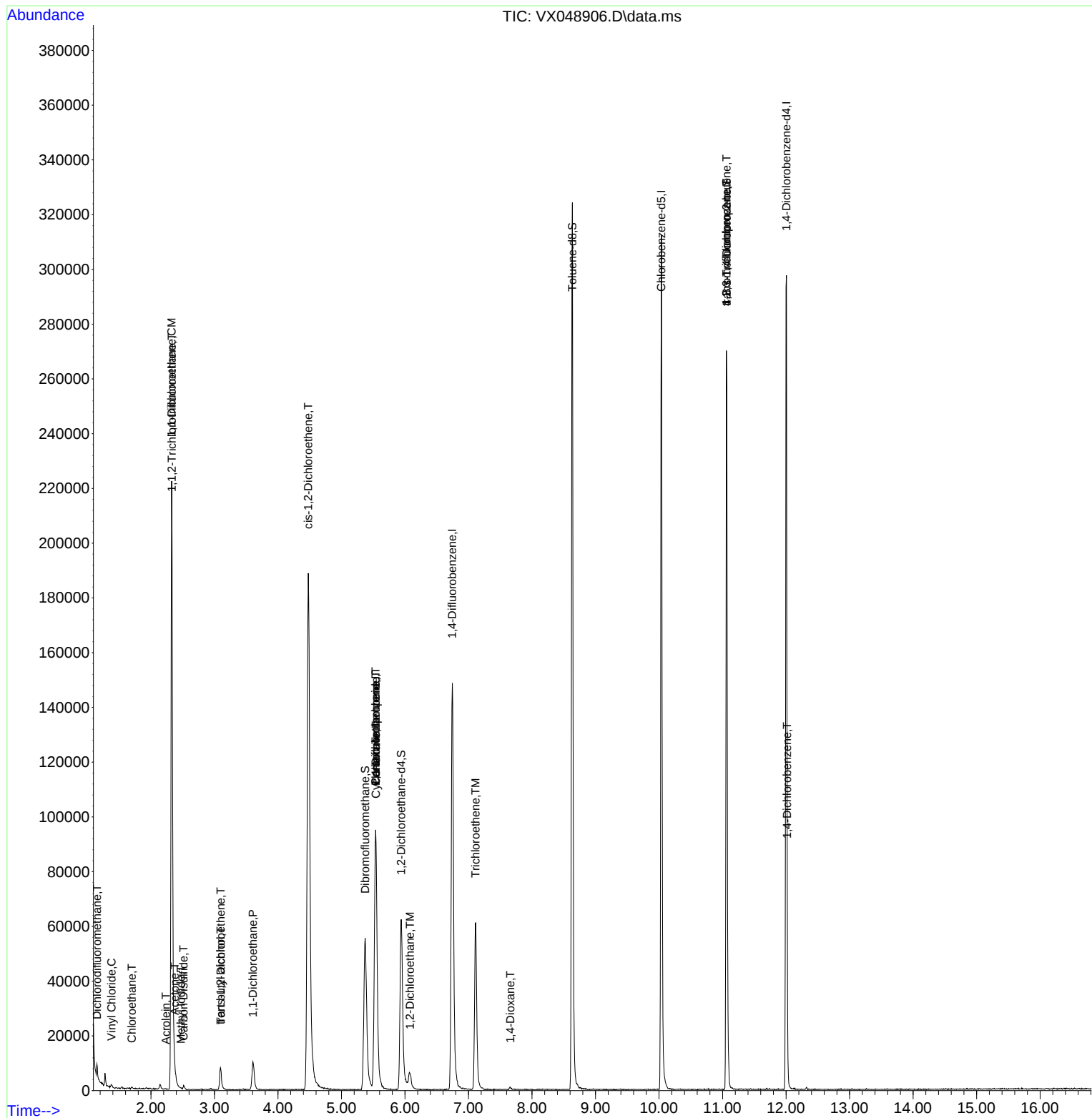
Internal Standards						
1) Pentafluorobenzene	5.538	168	96028	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	160224	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	143922	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	63676	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	67995	42.361	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	84.720%
35) Dibromofluoromethane	5.373	113	53996	45.340	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	90.680%
50) Toluene-d8	8.635	98	201889	47.484	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	94.960%
62) 4-Bromofluorobenzene	11.061	95	73966	48.456	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	96.920%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.148	85	460	0.416	ug/l	96
4) Vinyl Chloride	1.380	62	555	0.442	ug/l #	73
6) Chloroethane	1.697	64	466	0.610	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	453	0.444	ug/l #	83
10) Methyl Iodide	2.471	142	359	0.248	ug/l #	47
11) Tert butyl alcohol	3.099	59	146	1.577	ug/l #	73
12) 1,1-Dichloroethene	2.325	96	81536	81.296	ug/l	88
13) Acrolein	2.233	56	20	0.203	ug/l #	15
16) Acetone	2.373	43	608	1.798	ug/l	93
17) Carbon Disulfide	2.514	76	1100	0.363	ug/l #	74
21) trans-1,2-Dichloroethene	3.099	96	3829	3.398	ug/l	97
24) 1,1-Dichloroethane	3.605	63	13134	5.437	ug/l	99
27) cis-1,2-Dichloroethene	4.477	96	130354	90.360	ug/l	99
31) Cyclohexane	5.544	56	2232	1.238	ug/l #	23
36) 1,1-Dichloropropene	5.538	75	7856	5.256	ug/l #	49
38) Carbon Tetrachloride	5.538	117	9626	5.403	ug/l #	13
42) 1,2-Dichloroethane	6.080	62	7606	4.142	ug/l	85
44) Trichloroethene	7.110	130	26192	21.200	ug/l	100
49) 1,4-Dioxane	7.659	88	589	55.819	ug/l #	90
76) 1,2,3-Trichloropropane	11.061	75	40025	39.093	ug/l #	30
81) trans-1,4-Dichloro-2-b...	11.061	75	40025	99.288	ug/l #	3
88) 1,4-Dichlorobenzene	12.018	146	446	0.204	ug/l #	1

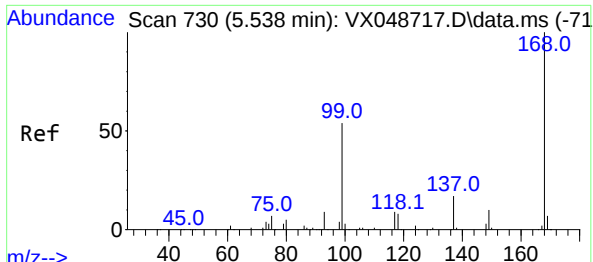
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

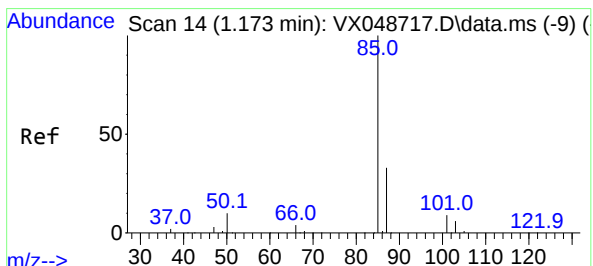
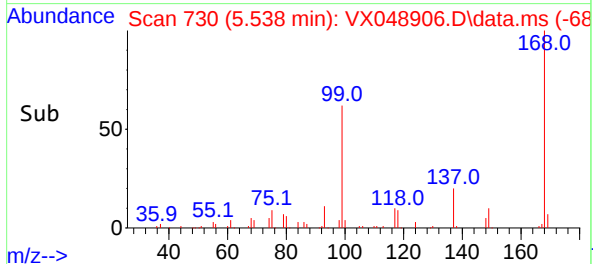
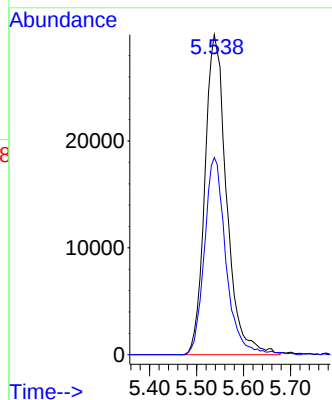
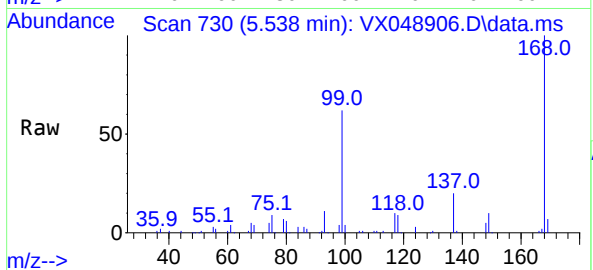




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

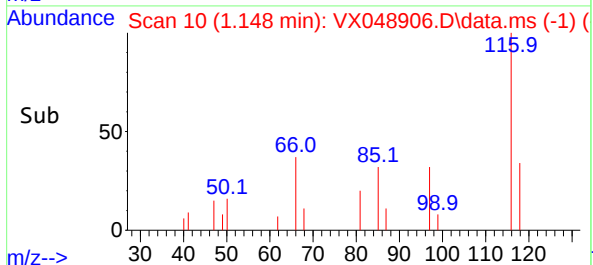
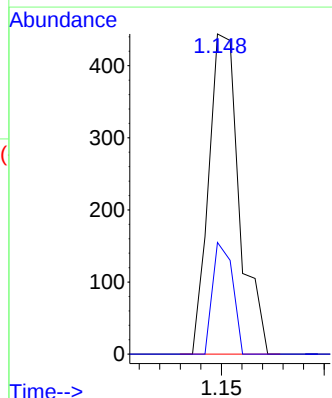
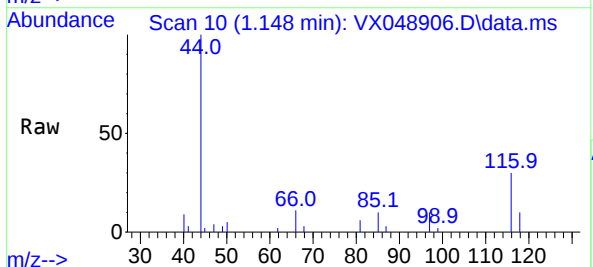
Instrument :
MSVOA_X
ClientSampleId :
OW-07B-65-121125

Tgt Ion:168 Resp: 96028
Ion Ratio Lower Upper
168 100
99 61.6 44.2 66.4

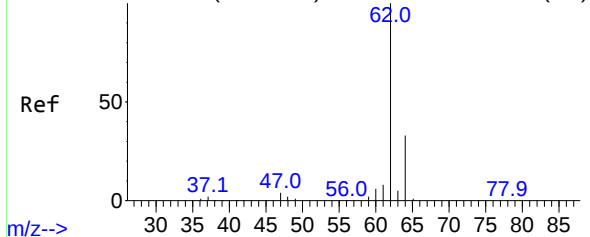


#2
Dichlorodifluoromethane
Concen: 0.416 ug/l
RT: 1.148 min Scan# 10
Delta R.T. -0.024 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

Tgt Ion: 85 Resp: 460
Ion Ratio Lower Upper
85 100
87 34.9 16.4 49.1



Abundance Scan 48 (1.380 min): VX048717.D\data.ms (-43)



#4

Vinyl Chloride

Concen: 0.442 ug/l

RT: 1.380 min Scan# 41

Delta R.T. -0.000 min

Lab File: VX048906.D

Acq: 16 Dec 2025 22:18

Instrument :

MSVOA_X

ClientSampleId :

OW-07B-65-121125

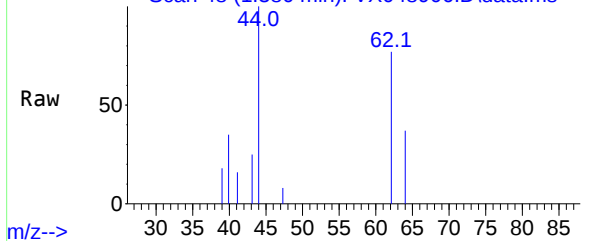
Tgt Ion: 62 Resp: 555

Ion Ratio Lower Upper

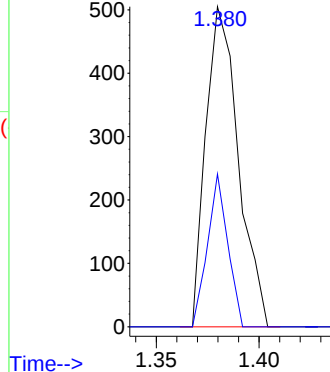
62 100

64 47.7 26.0 39.0#

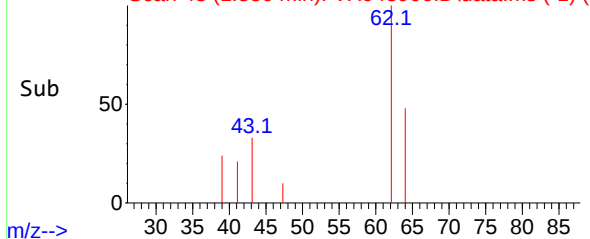
Abundance Scan 48 (1.380 min): VX048906.D\data.ms



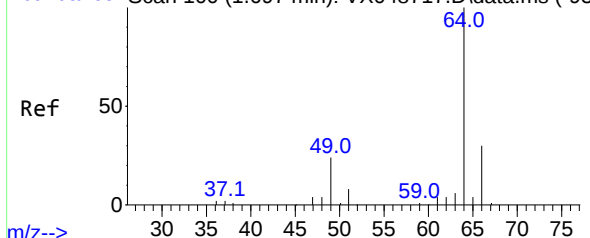
Abundance



Abundance Scan 48 (1.380 min): VX048906.D\data.ms (-1)



Abundance Scan 100 (1.697 min): VX048717.D\data.ms (-93)



#6

Chloroethane

Concen: 0.610 ug/l

RT: 1.697 min Scan# 100

Delta R.T. -0.000 min

Lab File: VX048906.D

Acq: 16 Dec 2025 22:18

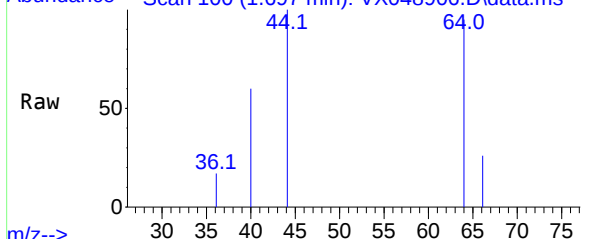
Tgt Ion: 64 Resp: 466

Ion Ratio Lower Upper

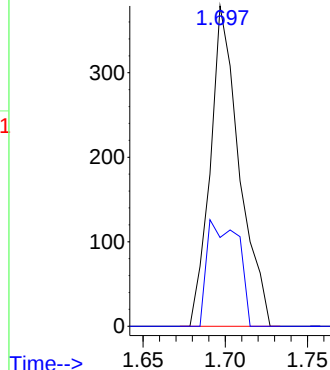
64 100

66 27.7 24.0 36.0

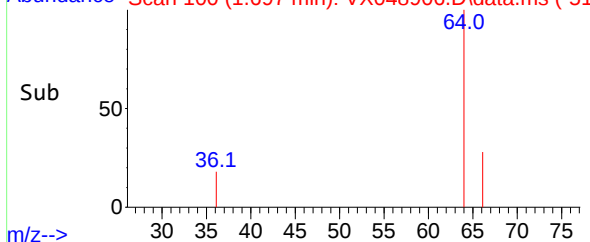
Abundance Scan 100 (1.697 min): VX048906.D\data.ms

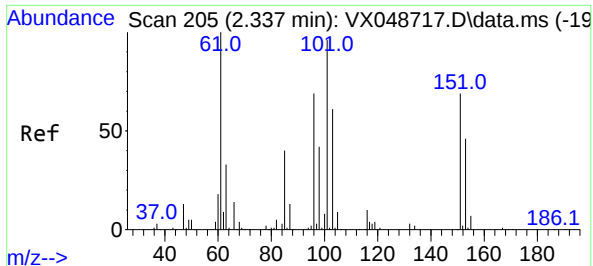


Abundance



Abundance Scan 100 (1.697 min): VX048906.D\data.ms (-51)

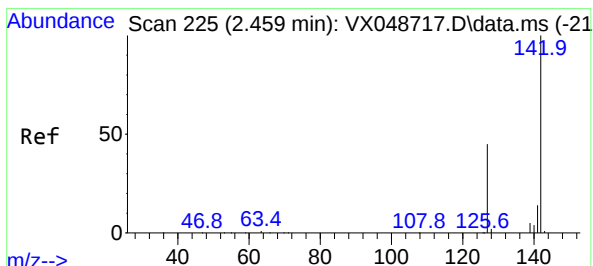
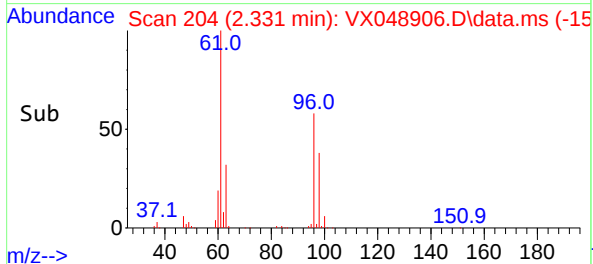
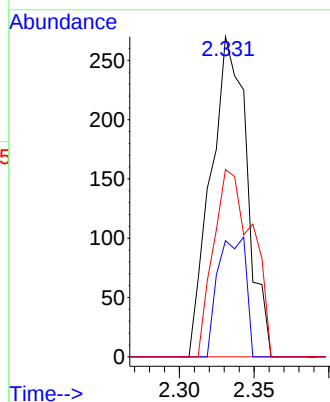
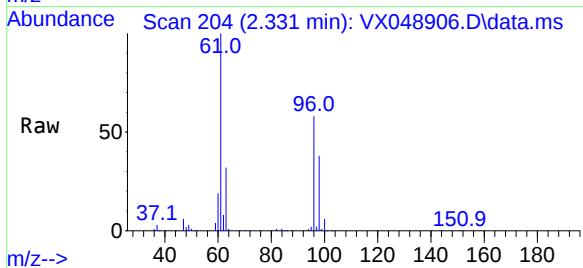




#9
1,1,2-Trichlorotrifluoroethane
Concen: 0.444 ug/l
RT: 2.331 min Scan# 204
Delta R.T. -0.006 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

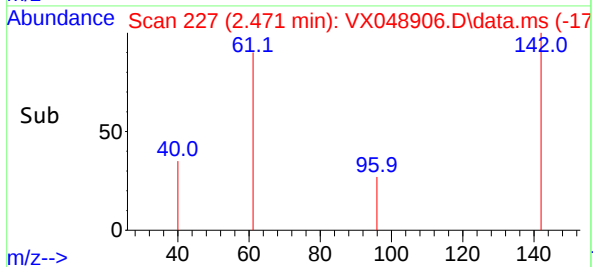
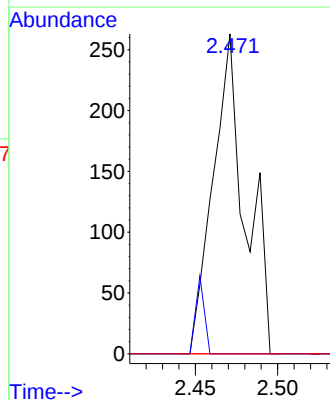
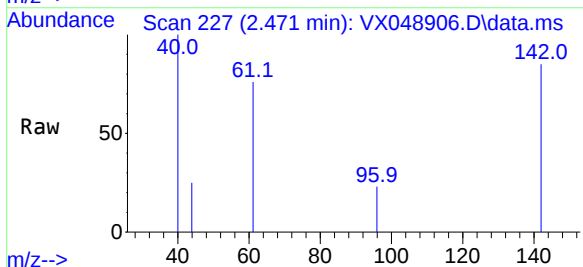
Instrument :
MSVOA_X
ClientSampleId :
OW-07B-65-121125

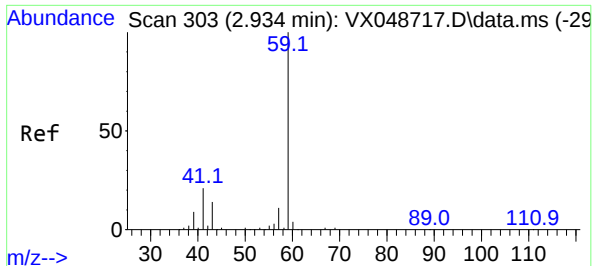
Tgt Ion:101 Resp: 453
Ion Ratio Lower Upper
101 100
85 28.9 34.2 51.2#
151 62.9 60.2 90.4



#10
Methyl Iodide
Concen: 0.248 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.012 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

Tgt Ion:142 Resp: 359
Ion Ratio Lower Upper
142 100
127 6.4 35.8 53.6#
141 0.0 11.1 16.7#





#11

Tert butyl alcohol

Concen: 1.577 ug/l

RT: 3.099 min Scan# 31

Delta R.T. 0.165 min

Lab File: VX048906.D

Acq: 16 Dec 2025 22:18

Instrument :

MSVOA_X

ClientSampleId :

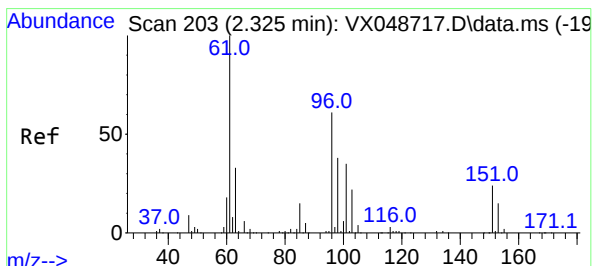
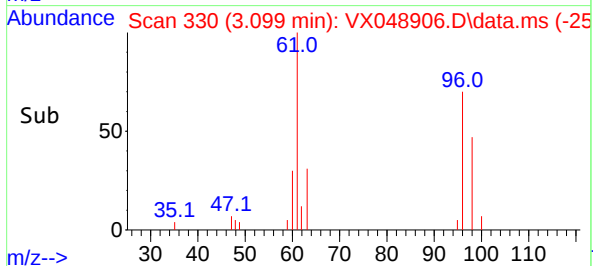
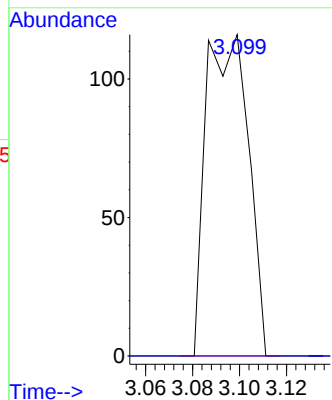
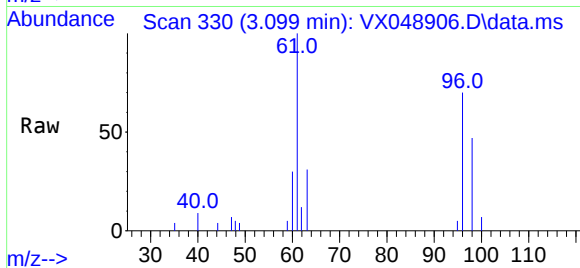
OW-07B-65-121125

Tgt Ion: 59 Resp: 146

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



#12

1,1-Dichloroethene

Concen: 81.296 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX048906.D

Acq: 16 Dec 2025 22:18

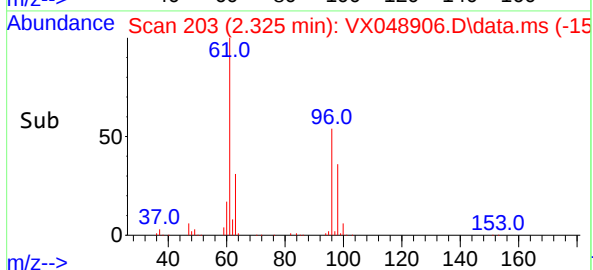
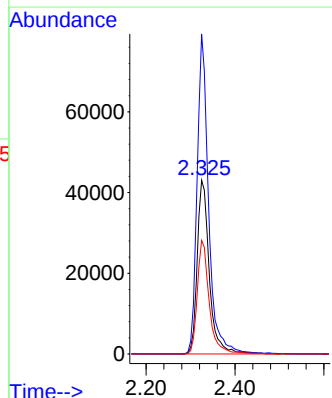
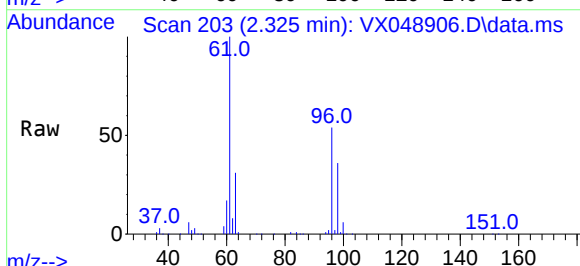
Tgt Ion: 96 Resp: 81536

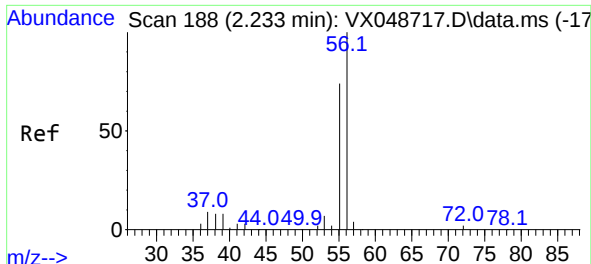
Ion Ratio Lower Upper

96 100

61 184.1 130.7 196.1

98 65.4 49.8 74.8

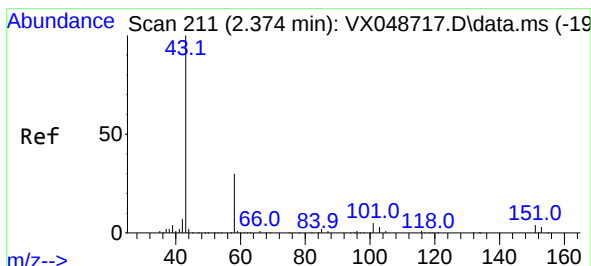
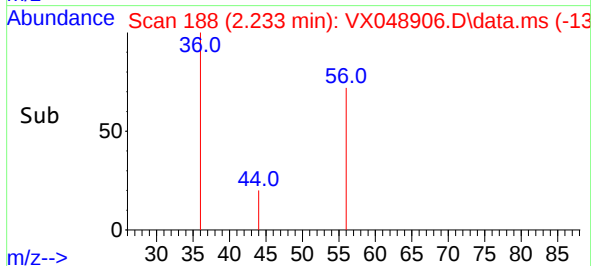
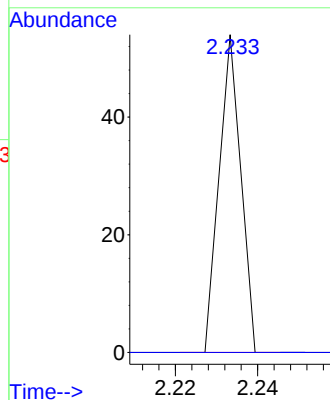
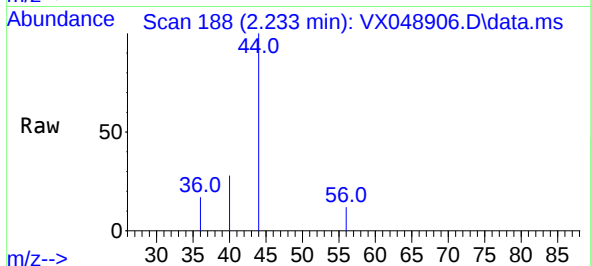




#13
Acrolein
Concen: 0.203 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

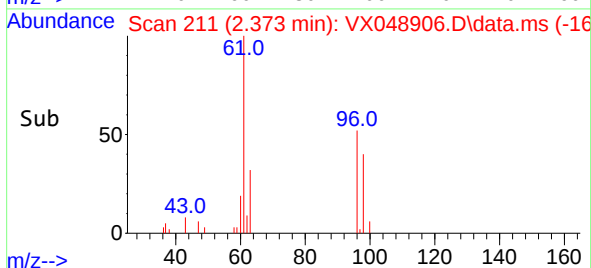
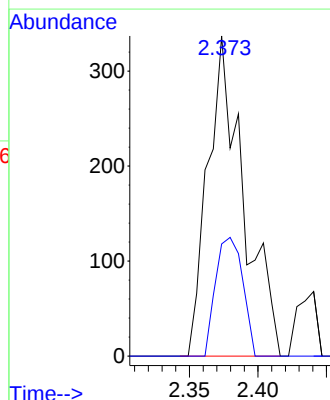
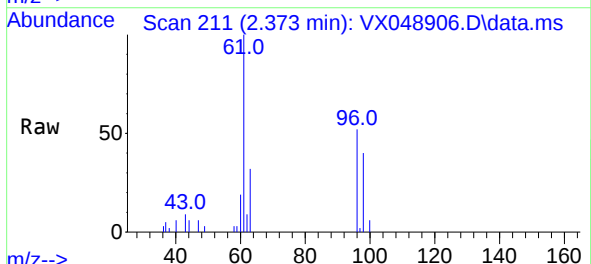
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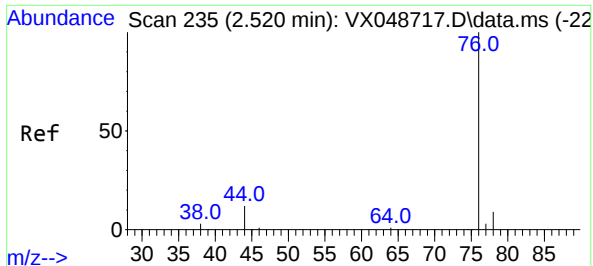
Tgt Ion: 56 Resp: 20
Ion Ratio Lower Upper
56 100
55 0.0 55.8 83.6#



#16
Acetone
Concen: 1.798 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

Tgt Ion: 43 Resp: 608
Ion Ratio Lower Upper
43 100
58 35.0 25.0 37.4

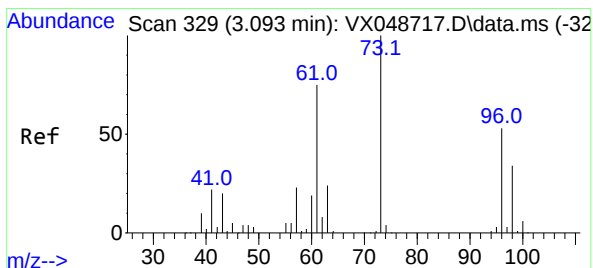
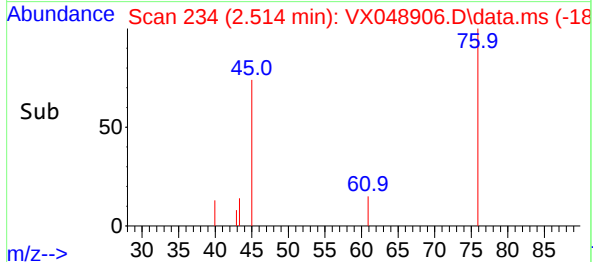
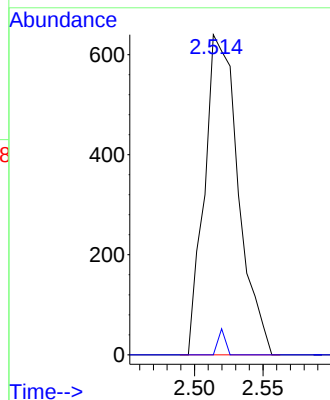
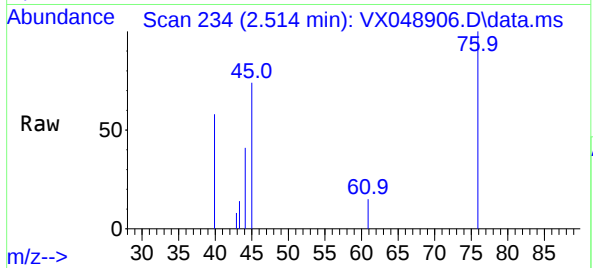




#17
Carbon Disulfide
Concen: 0.363 ug/l
RT: 2.514 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

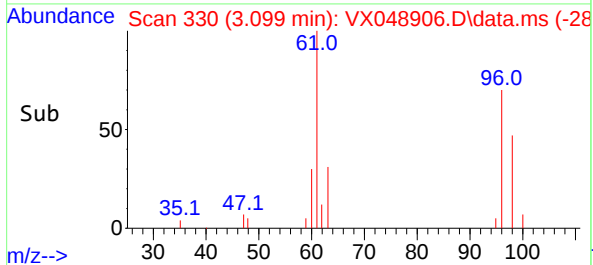
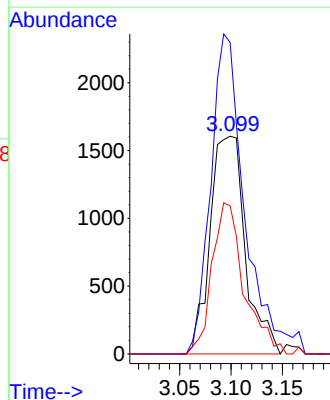
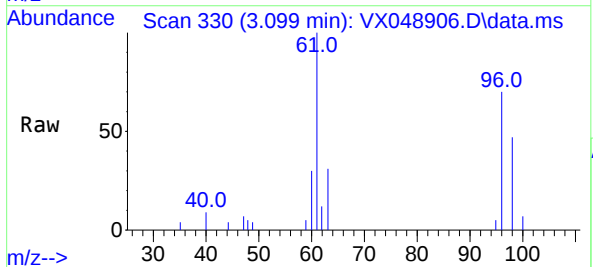
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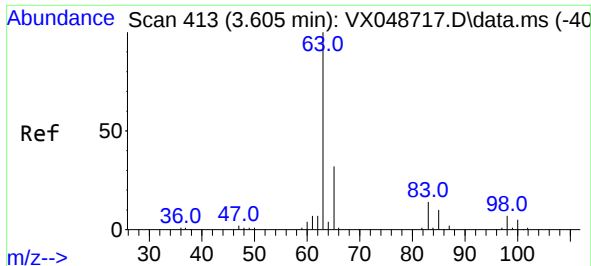
Tgt Ion: 76 Resp: 1100
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#21
trans-1,2-Dichloroethene
Concen: 3.398 ug/l
RT: 3.099 min Scan# 330
Delta R.T. 0.006 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

Tgt Ion: 96 Resp: 3829
Ion Ratio Lower Upper
96 100
61 143.1 112.8 169.2
98 67.9 51.0 76.4

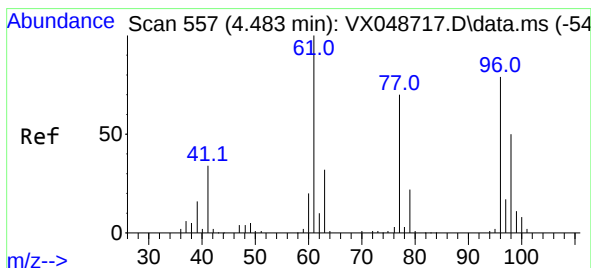
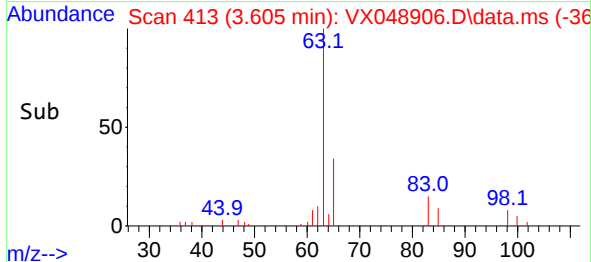
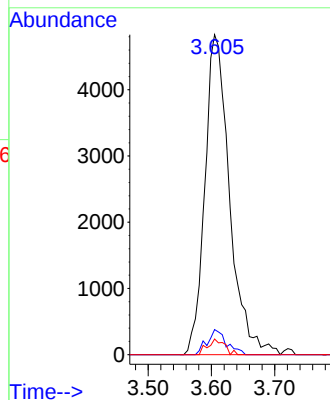
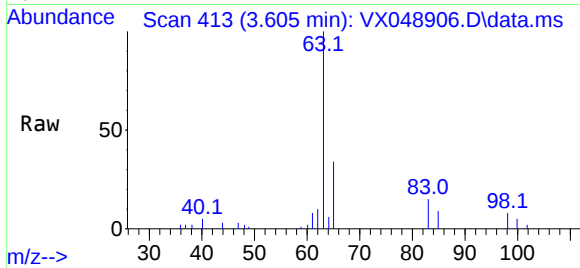




#24
1,1-Dichloroethane
Concen: 5.437 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

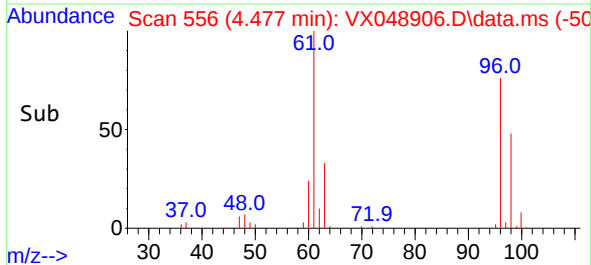
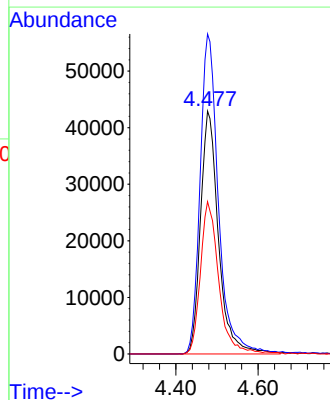
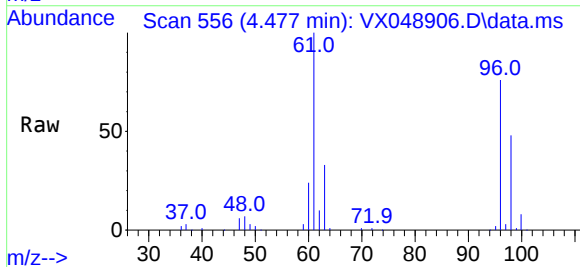
Instrument :
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ClientSampleId :
OW-07B-65-121125

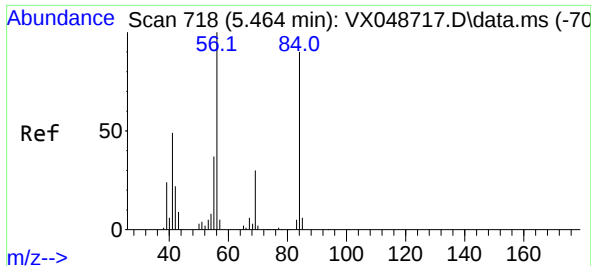
Tgt Ion: 63	Resp: 13134
Ion Ratio	Lower Upper
63 100	
98 7.8	3.5 10.6
100 4.9	2.5 7.4



#27
cis-1,2-Dichloroethene
Concen: 90.360 ug/l
RT: 4.477 min Scan# 556
Delta R.T. -0.000 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

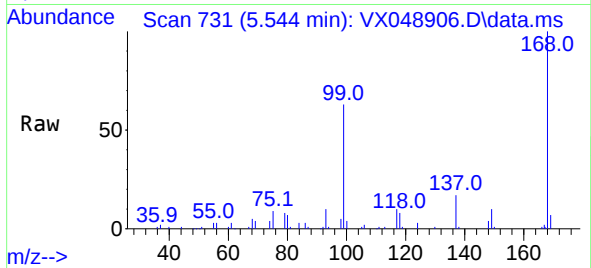
Tgt Ion: 96	Resp: 130354
Ion Ratio	Lower Upper
96 100	
61 134.1	0.0 271.0
98 63.4	0.0 130.2



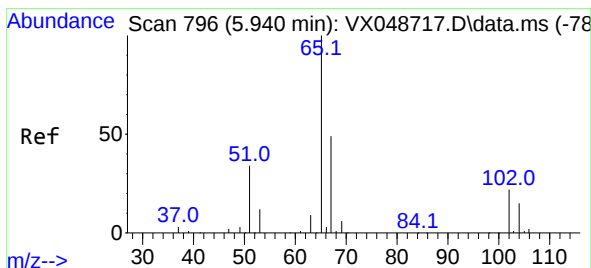
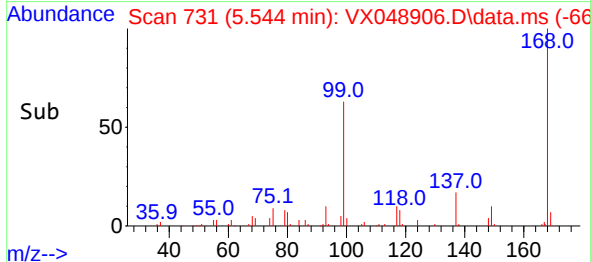
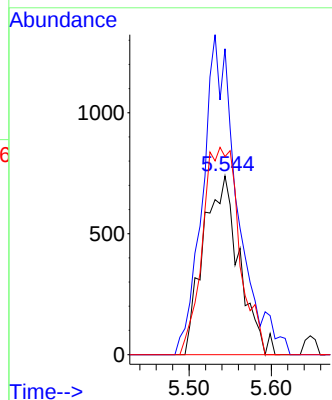


#31
Cyclohexane
Concen: 1.238 ug/l
RT: 5.544 min Scan# 718
Delta R.T. 0.085 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

Instrument :
MSVOA_X
ClientSampleId :
OW-07B-65-121125

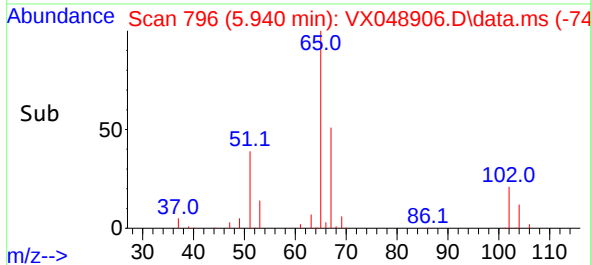
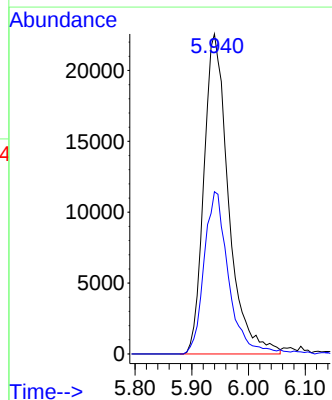
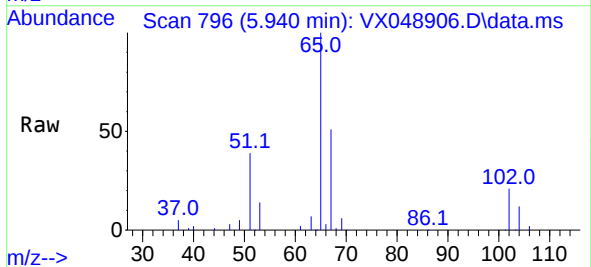


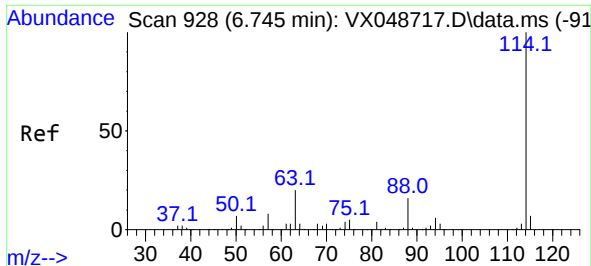
Tgt Ion: 56 Resp: 2232
Ion Ratio Lower Upper
56 100
69 161.4 24.2 36.2#
84 110.8 72.1 108.1#



#33
1,2-Dichloroethane-d4
Concen: 42.361 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

Tgt Ion: 65 Resp: 67995
Ion Ratio Lower Upper
65 100
67 50.5 0.0 107.4

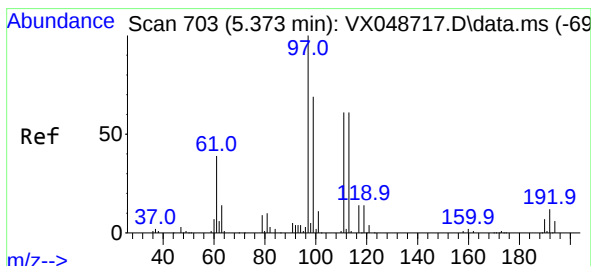
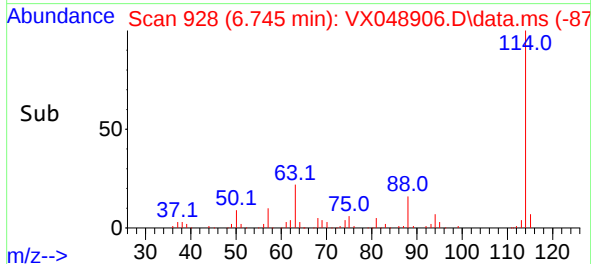
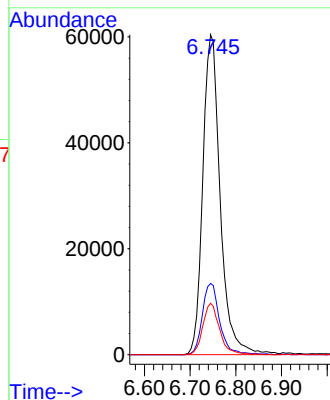
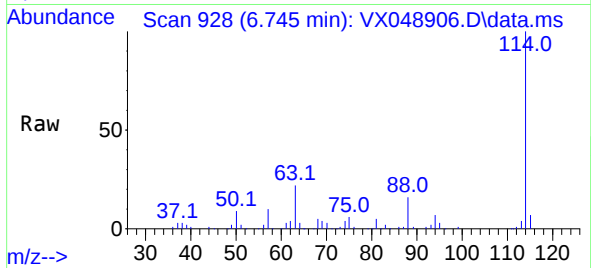




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

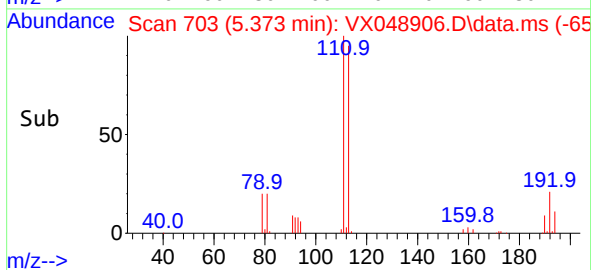
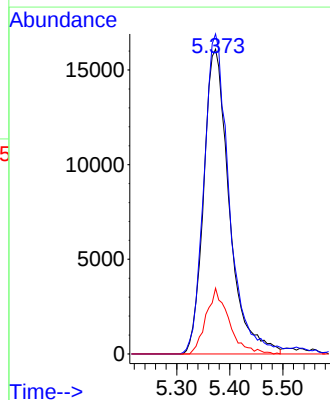
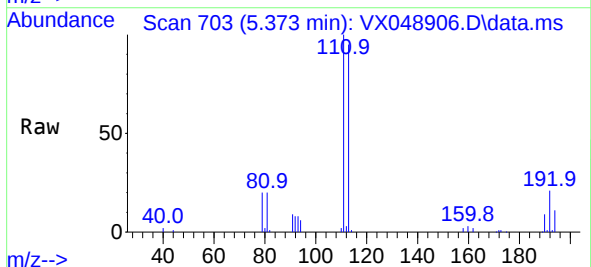
Instrument :
MSVOA_X
ClientSampleId :
OW-07B-65-121125

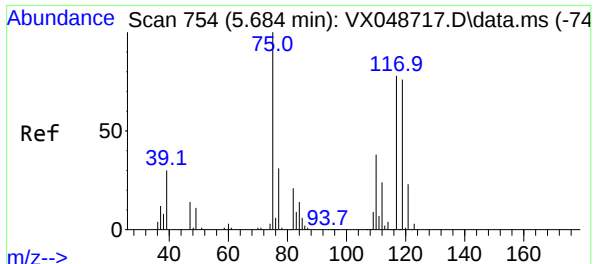
Tgt Ion:114 Resp: 160224
Ion Ratio Lower Upper
114 100
63 22.3 0.0 39.0
88 16.1 0.0 31.8



#35
Dibromofluoromethane
Concen: 45.340 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.006 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

Tgt Ion:113 Resp: 53996
Ion Ratio Lower Upper
113 100
111 104.4 79.5 119.3
192 19.3 16.1 24.1

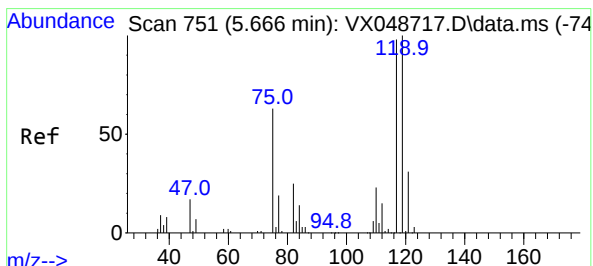
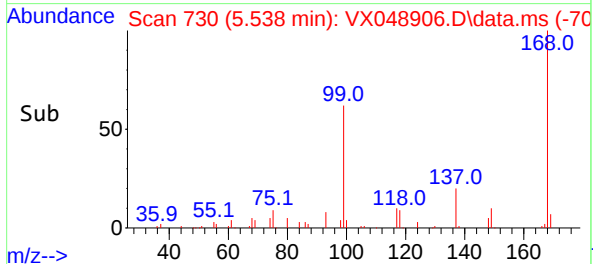
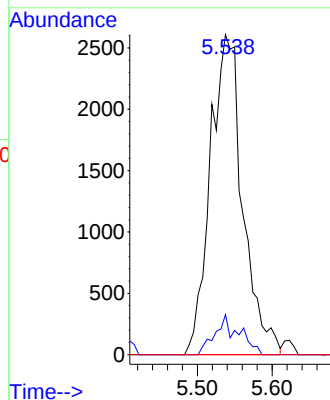
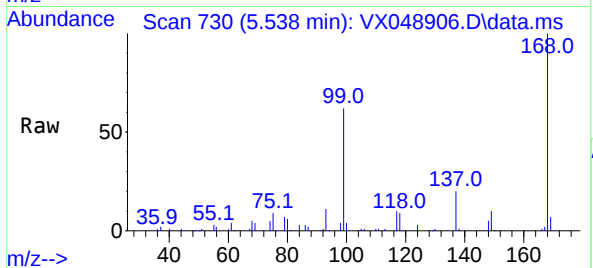




#36
1,1-Dichloropropene
Concen: 5.256 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

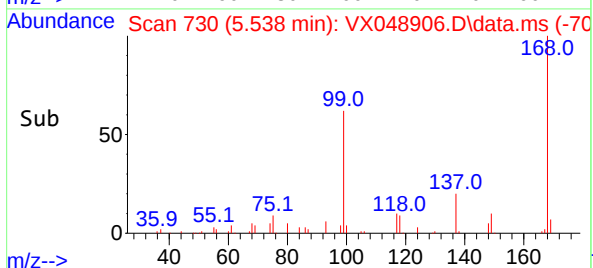
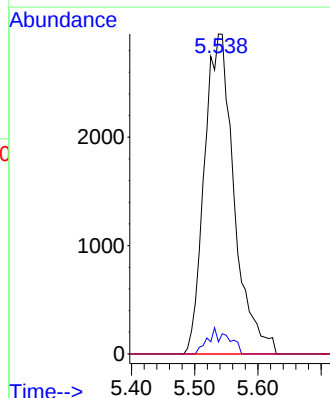
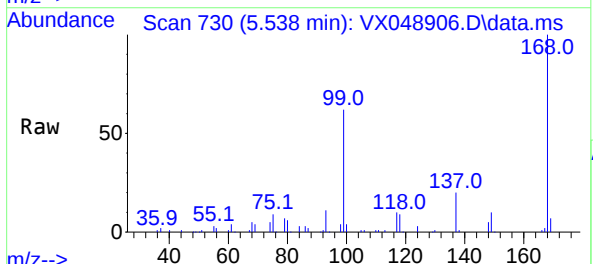
Instrument :
MSVOA_X
ClientSampleId :
OW-07B-65-121125

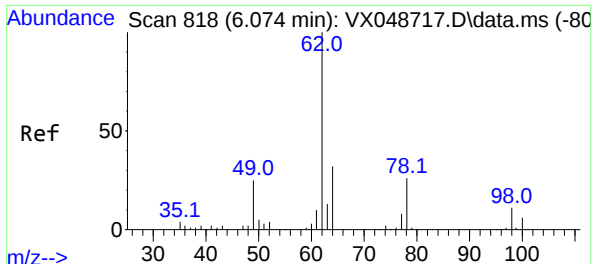
Tgt Ion: 75 Resp: 7856
Ion Ratio Lower Upper
75 100
110 9.3 18.6 55.8#
77 0.0 25.3 37.9#



#38
Carbon Tetrachloride
Concen: 5.403 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.128 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

Tgt Ion: 117 Resp: 9626
Ion Ratio Lower Upper
117 100
119 3.8 80.5 120.7#
121 0.0 25.4 38.0#





#42

1,2-Dichloroethane

Concen: 4.142 ug/l

RT: 6.080 min Scan# 818

Delta R.T. 0.012 min

Lab File: VX048906.D

Acq: 16 Dec 2025 22:18

Instrument :

MSVOA_X

ClientSampleId :

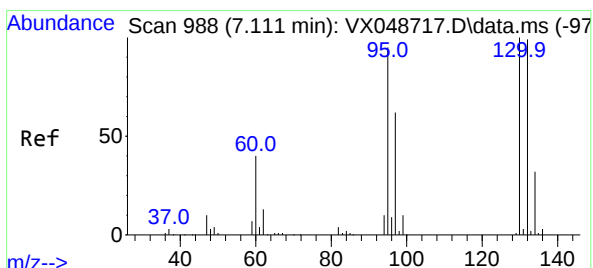
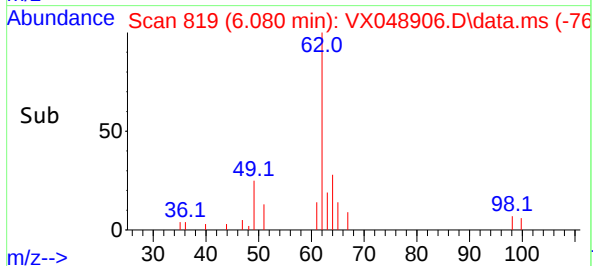
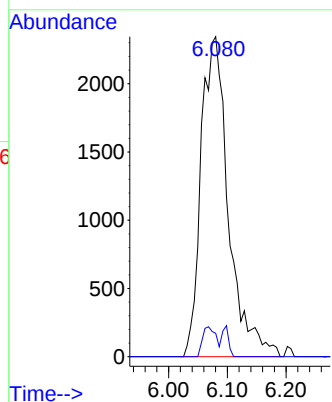
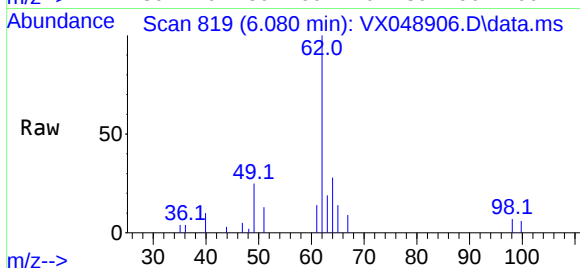
OW-07B-65-121125

Tgt Ion: 62 Resp: 7606

Ion Ratio Lower Upper

62 100

98 4.6 0.0 20.2



#44

Trichloroethene

Concen: 21.200 ug/l

RT: 7.110 min Scan# 988

Delta R.T. -0.000 min

Lab File: VX048906.D

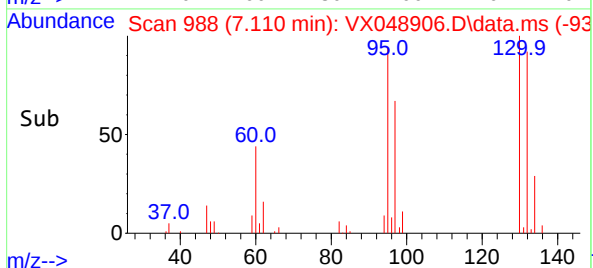
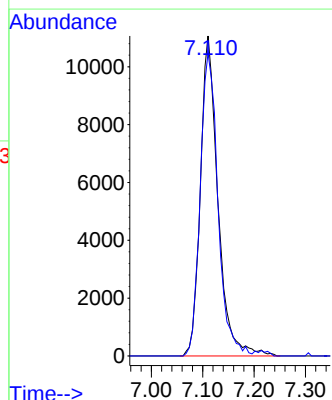
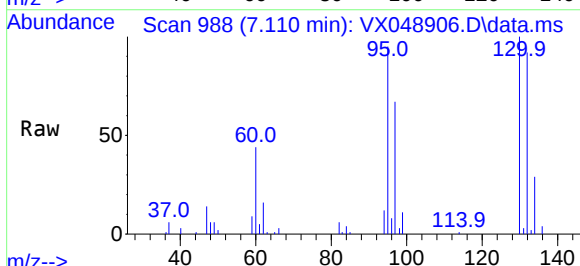
Acq: 16 Dec 2025 22:18

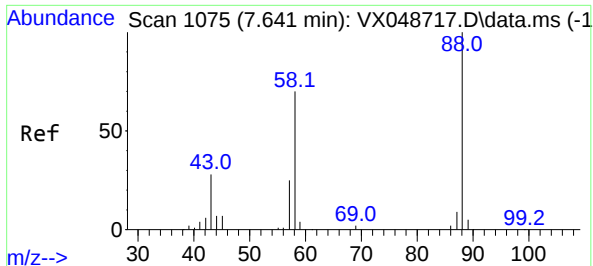
Tgt Ion:130 Resp: 26192

Ion Ratio Lower Upper

130 100

95 94.7 0.0 189.6

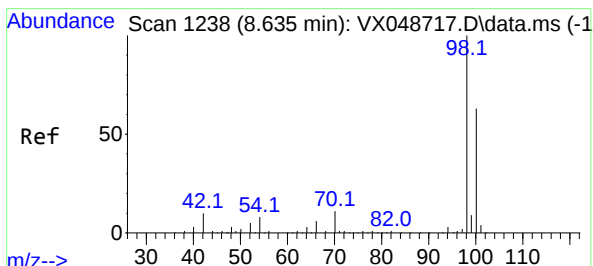
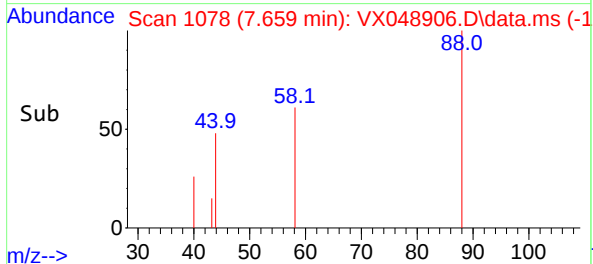
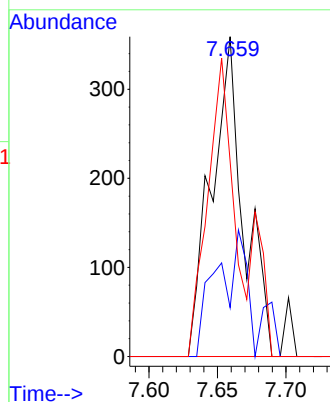
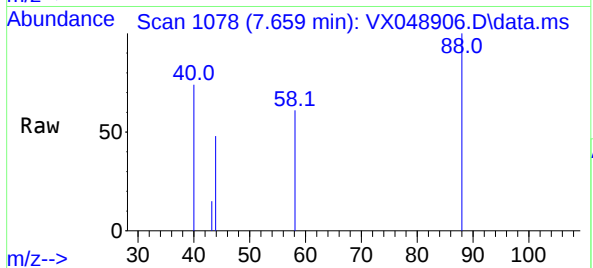




#49
1,4-Dioxane
Concen: 55.819 ug/l
RT: 7.659 min Scan# 1078
Delta R.T. 0.012 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

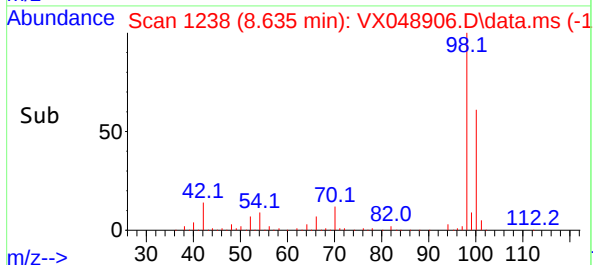
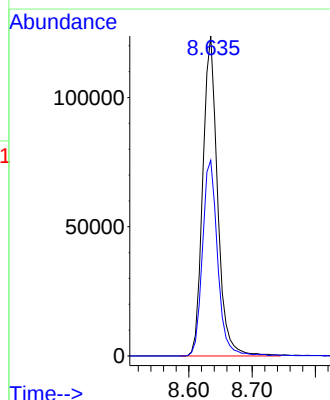
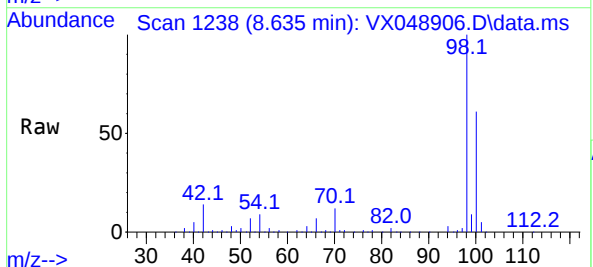
Instrument :
MSVOA_X
ClientSampleId :
OW-07B-65-121125

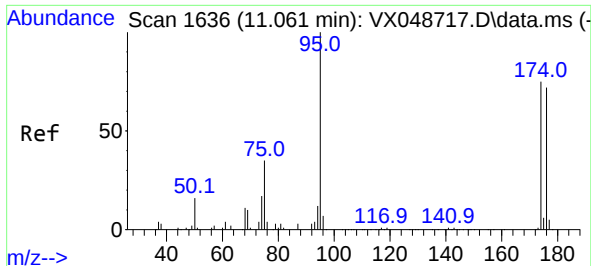
Tgt Ion: 88 Resp: 589
Ion Ratio Lower Upper
88 100
43 20.9 28.6 43.0#
58 74.4 58.0 87.0



#50
Toluene-d8
Concen: 47.484 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

Tgt Ion: 98 Resp: 201889
Ion Ratio Lower Upper
98 100
100 62.6 53.4 80.0

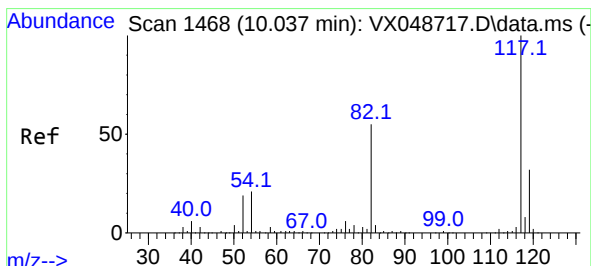
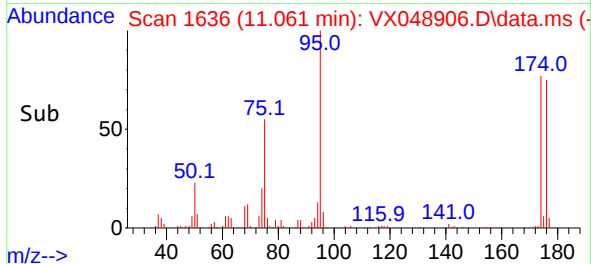
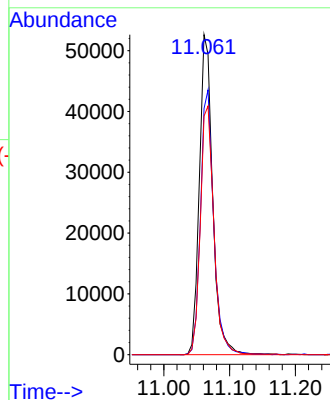
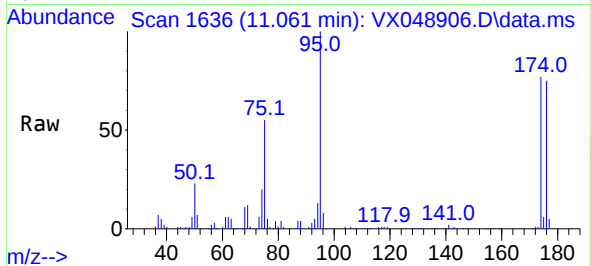




#62
4-Bromofluorobenzene
Concen: 48.456 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

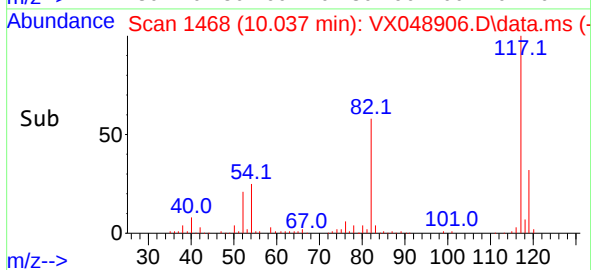
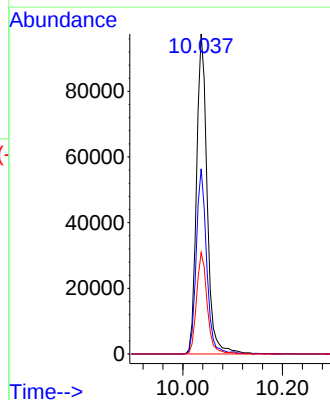
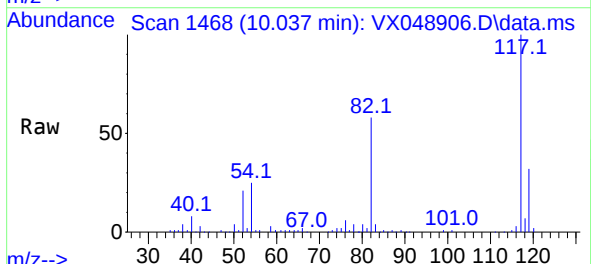
Instrument :
MSVOA_X
ClientSampleId :
OW-07B-65-121125

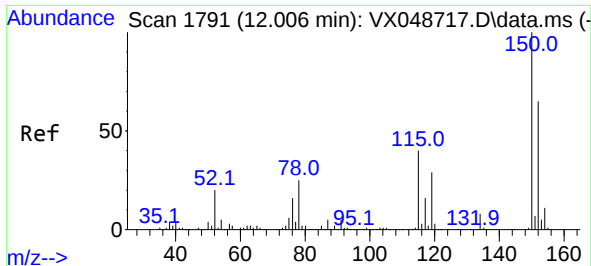
Tgt Ion: 95 Resp: 73966
Ion Ratio Lower Upper
95 100
174 82.0 0.0 157.8
176 79.4 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

Tgt Ion: 117 Resp: 143922
Ion Ratio Lower Upper
117 100
82 57.8 44.1 66.1
119 31.7 25.2 37.8

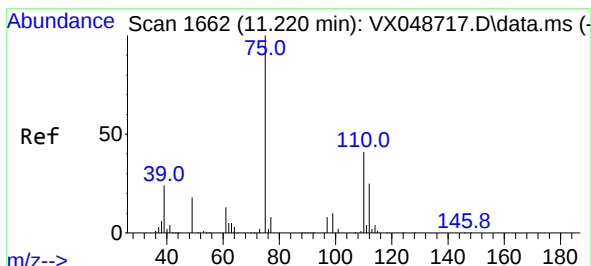
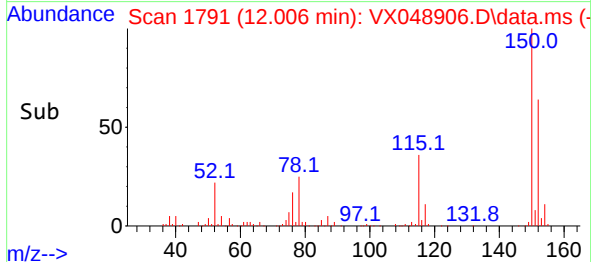
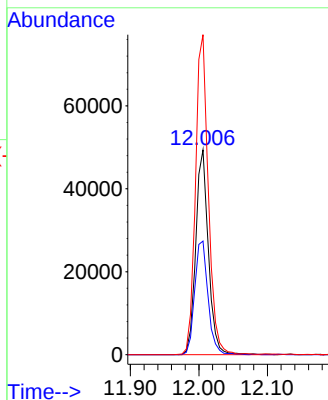
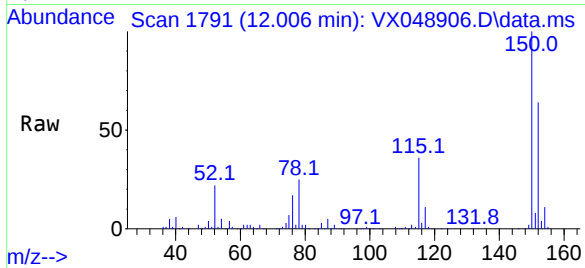




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

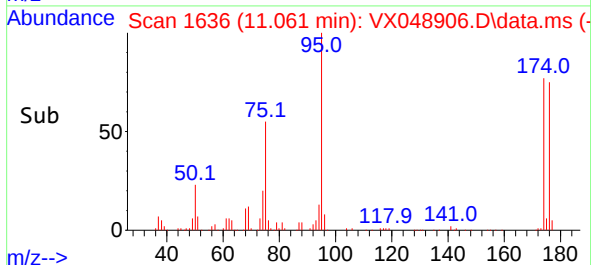
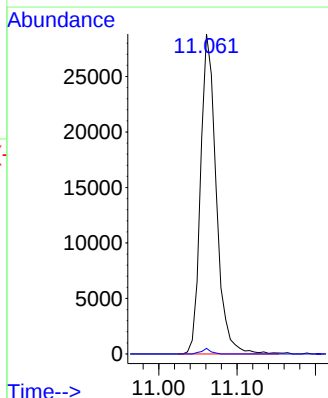
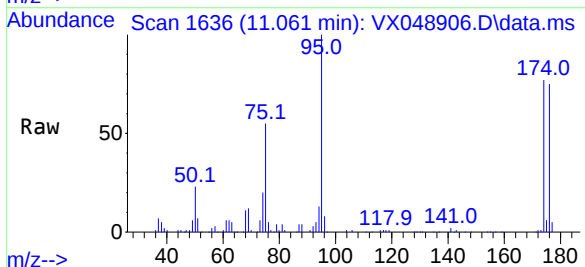
Instrument :
MSVOA_X
ClientSampleId :
OW-07B-65-121125

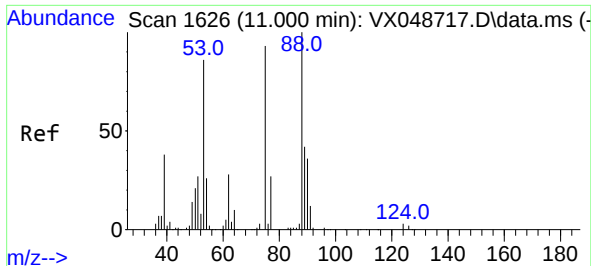
Tgt Ion:152 Resp: 63676
Ion Ratio Lower Upper
152 100
115 58.5 42.1 126.4
150 158.7 0.0 347.8



#76
1,2,3-Trichloropropane
Concen: 39.093 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

Tgt Ion: 75 Resp: 40025
Ion Ratio Lower Upper
75 100
77 1.0 24.3 73.0#

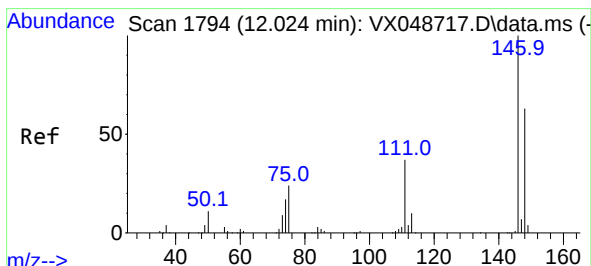
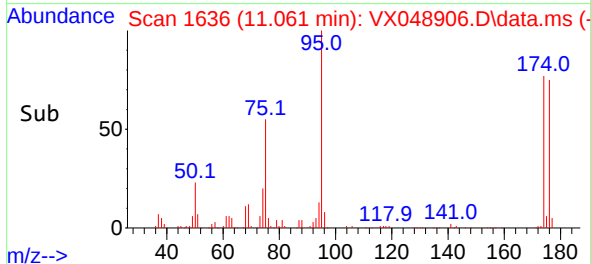
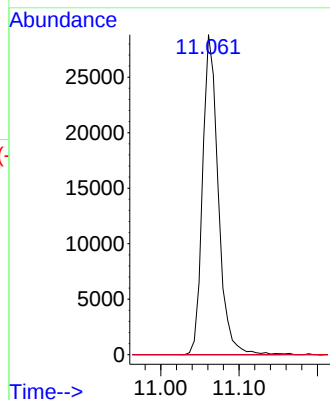
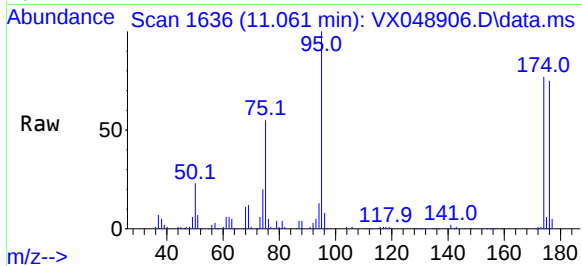




#81
trans-1,4-Dichloro-2-butene
Concen: 99.288 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

Instrument :
MSVOA_X
ClientSampleId :
OW-07B-65-121125

Tgt Ion: 75 Resp: 40025
Ion Ratio Lower Upper
75 100
53 0.0 79.9 119.9#
89 0.0 67.1 100.7#



#88
1,4-Dichlorobenzene
Concen: 0.204 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX048906.D
Acq: 16 Dec 2025 22:18

Tgt Ion:146 Resp: 446
Ion Ratio Lower Upper
146 100
111 227.8 19.6 58.7#
148 144.2 31.6 94.7#

