

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101325\
 Data File : VX048144.D
 Acq On : 13 Oct 2025 15:51
 Operator : JC/MD
 Sample : Q3326-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-1

Quant Time: Oct 14 01:56:28 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)

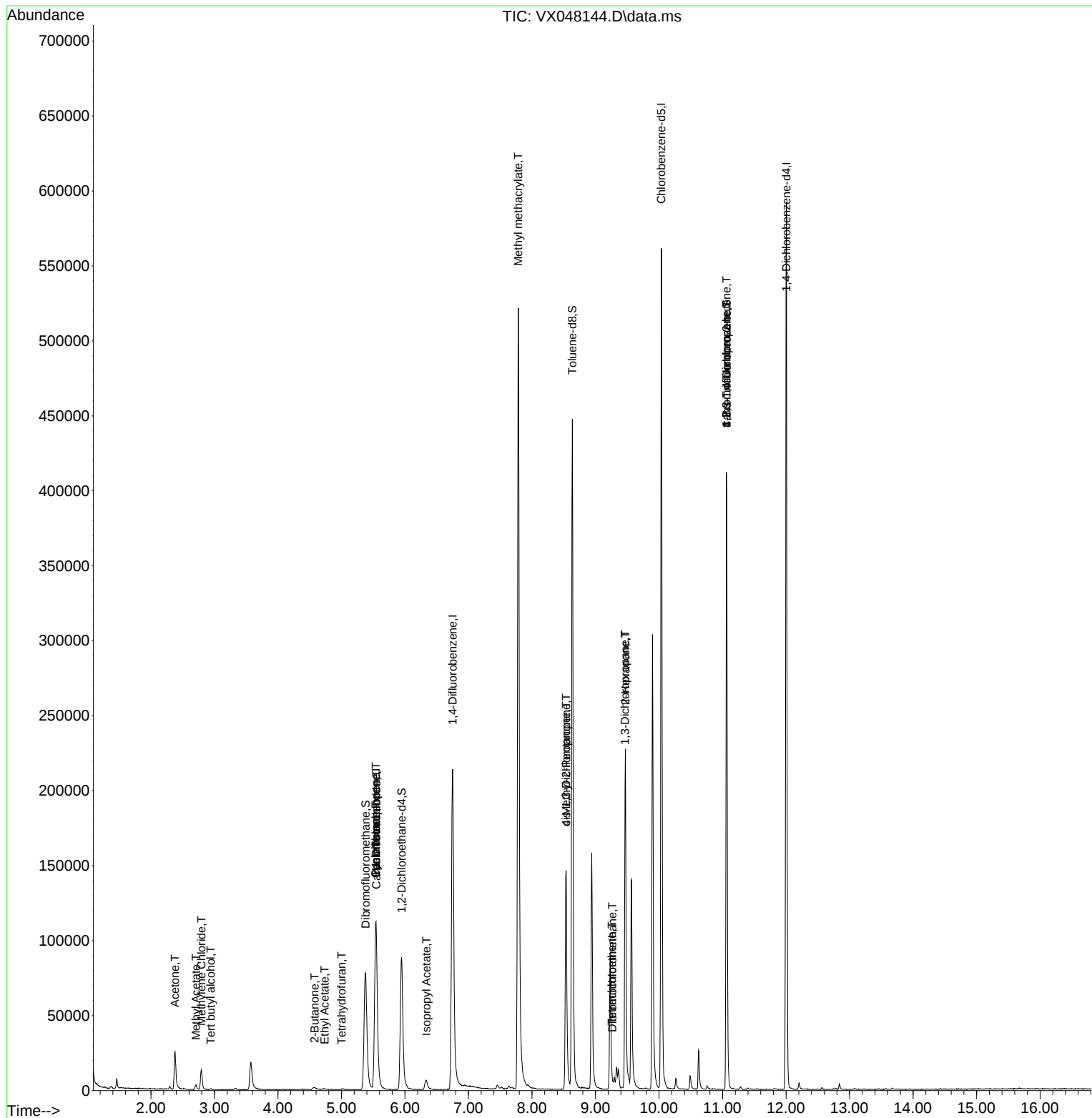
Internal Standards						
1) Pentafluorobenzene	5.544	168	111228	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	230199	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	247574	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	123164	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	95861	54.144	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	108.280%
35) Dibromofluoromethane	5.379	113	77129	49.959	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	99.920%
50) Toluene-d8	8.635	98	273065	51.117	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	102.240%
62) 4-Bromofluorobenzene	11.061	95	114812	56.631	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	113.260%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.941	59	223	1.131	ug/l #	72
16) Acetone	2.380	43	33860	43.985	ug/l	99
18) Methyl Acetate	2.709	43	4257	2.485	ug/l	99
20) Methylene Chloride	2.794	84	6395	3.925	ug/l	99
25) 2-Butanone	4.574	43	3983	4.148	ug/l #	88
29) Tetrahydrofuran	5.001	42	167	0.289	ug/l #	34
31) Cyclohexane	5.538	56	2553	1.091	ug/l #	10
36) 1,1-Dichloropropene	5.544	75	9781	4.336	ug/l #	46
37) Ethyl Acetate	4.733	43	1336	0.553	ug/l #	82
38) Carbon Tetrachloride	5.550	117	11973	4.885	ug/l #	17
43) Isopropyl Acetate	6.336	43	10920	2.757	ug/l	99
48) Methyl methacrylate	7.781	41	54602	27.671	ug/l #	48
51) 4-Methyl-2-Pentanone	8.537	43	59438	27.061	ug/l #	51
54) cis-1,3-Dichloropropene	8.537	75	24929	8.679	ug/l #	64
57) 1,3-Dichloropropane	9.464	76	1982	0.709	ug/l #	42
59) 2-Hexanone	9.470	43	30523	19.349	ug/l #	54
60) Dibromochloromethane	9.263	129	527	0.281	ug/l #	11
64) Tetrachloroethene	9.257	164	548	0.340	ug/l #	76
76) 1,2,3-Trichloropropane	11.061	75	60946	24.440	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	60946	62.326	ug/l #	8

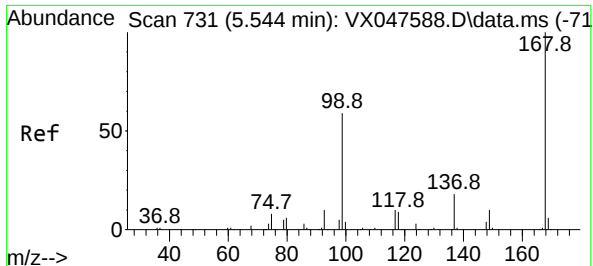
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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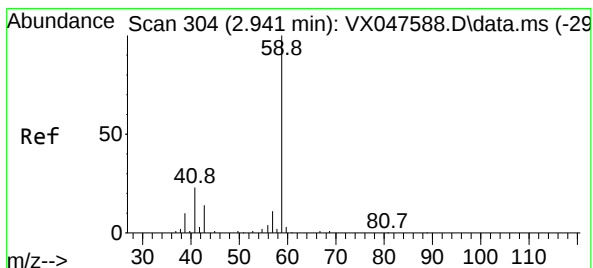
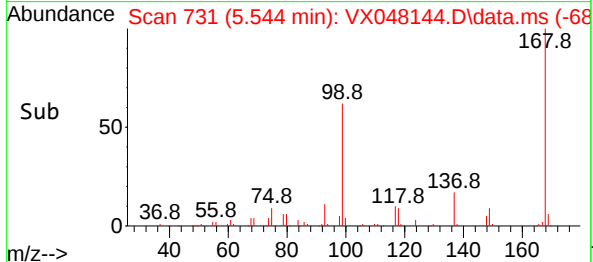
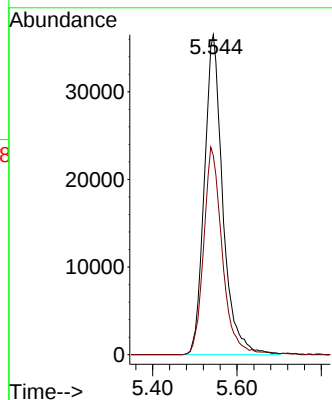
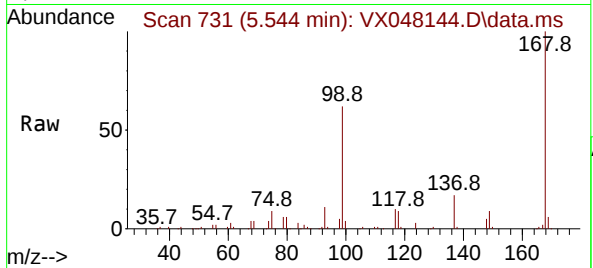




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

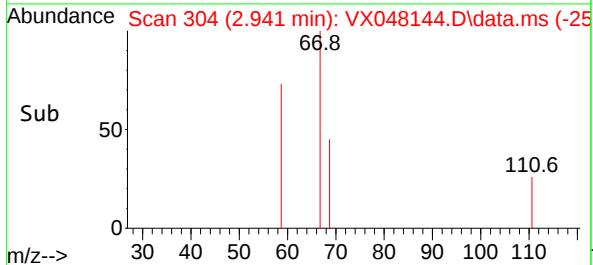
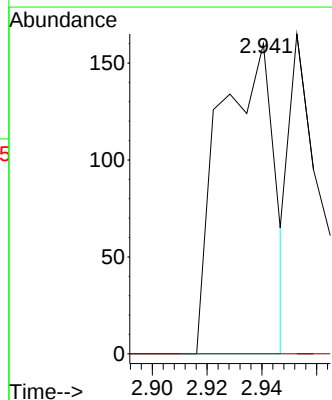
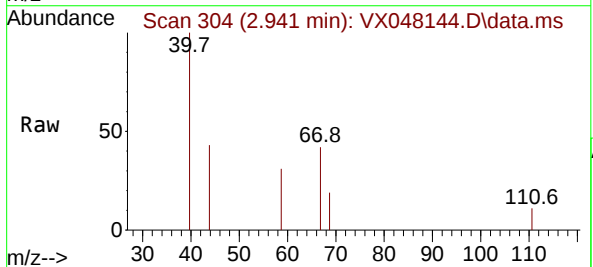
Instrument :
MSVOA_X
ClientSampleId :
TP-1

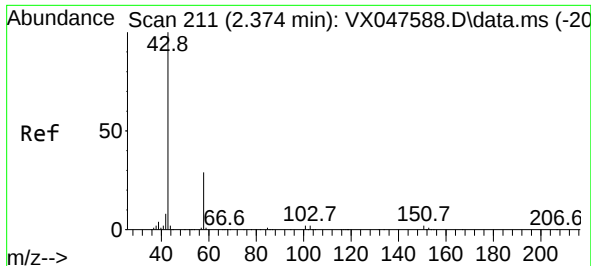
Tgt Ion:168 Resp: 111228
Ion Ratio Lower Upper
168 100
99 62.2 48.8 73.2



#11
Tert butyl alcohol
Concen: 1.131 ug/l
RT: 2.941 min Scan# 304
Delta R.T. -0.000 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

Tgt Ion: 59 Resp: 223
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

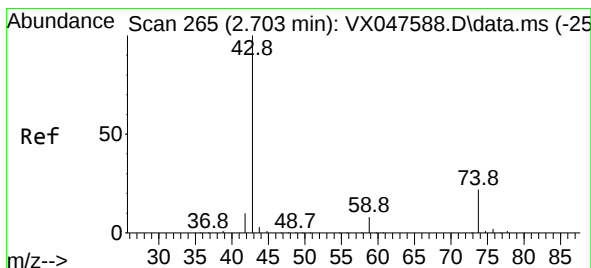
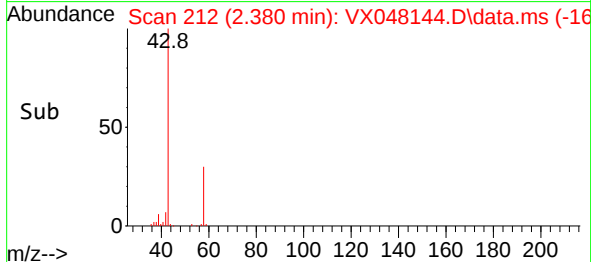
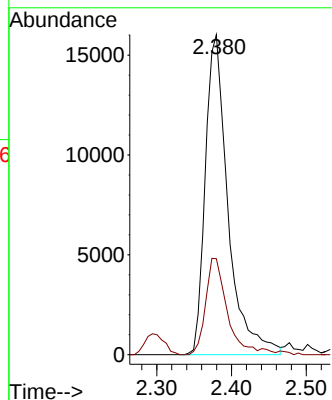
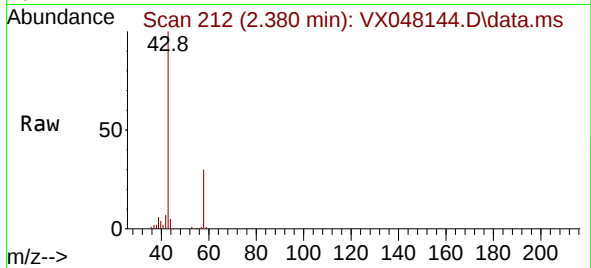




#16
Acetone
Concen: 43.985 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

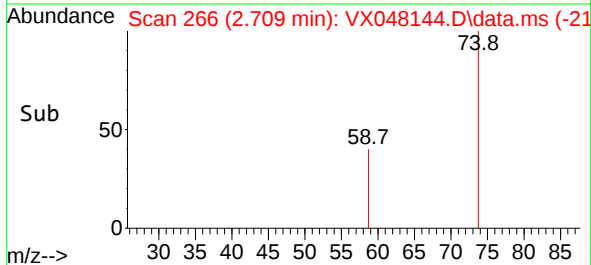
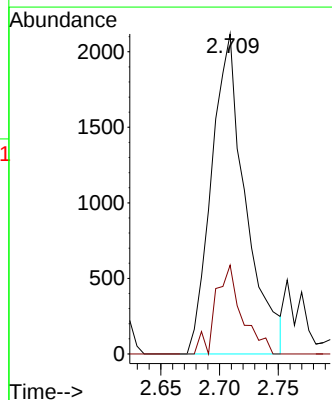
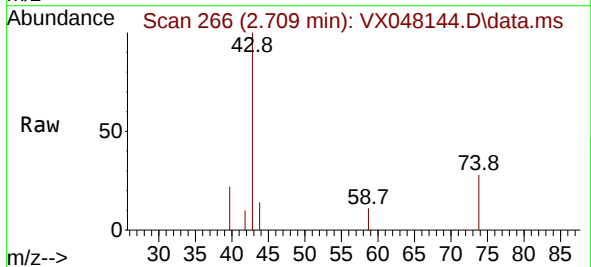
Instrument :
MSVOA_X
ClientSampleId :
TP-1

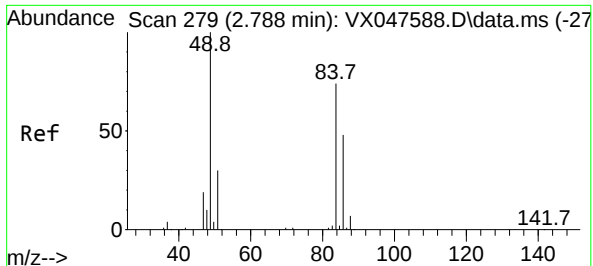
Tgt Ion: 43 Resp: 33860
Ion Ratio Lower Upper
43 100
58 30.0 23.4 35.0



#18
Methyl Acetate
Concen: 2.485 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.006 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

Tgt Ion: 43 Resp: 4257
Ion Ratio Lower Upper
43 100
74 21.5 17.4 26.2

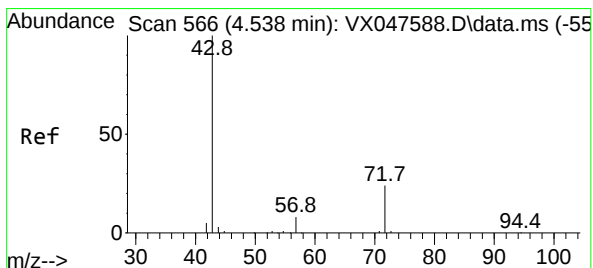
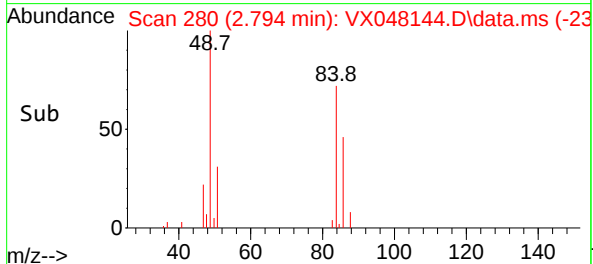
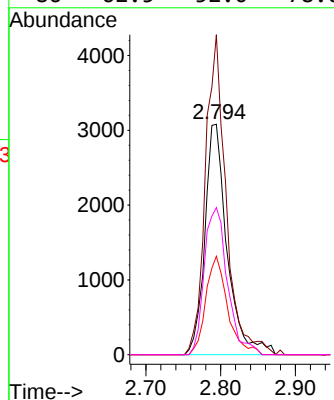
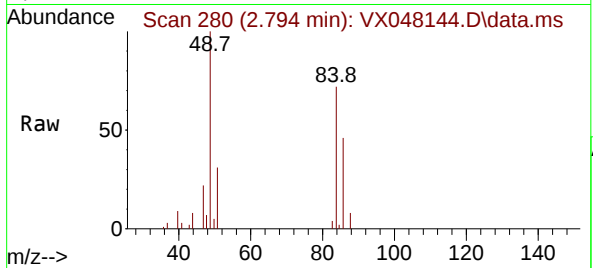




#20
Methylene Chloride
Concen: 3.925 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

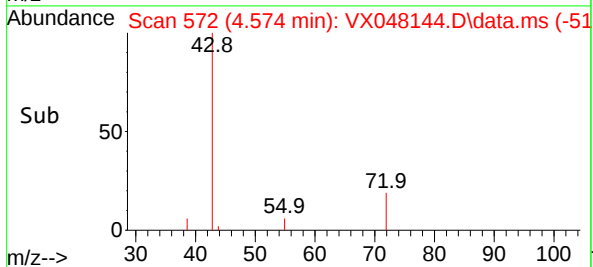
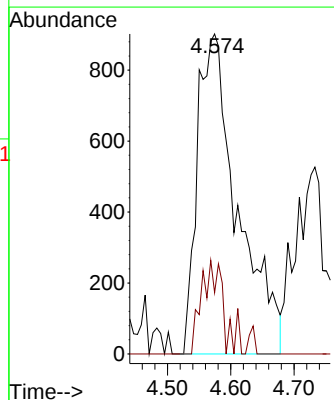
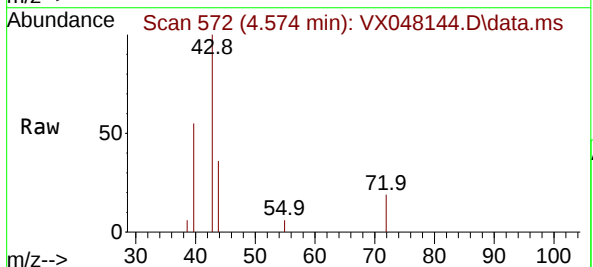
Instrument :
MSVOA_X
ClientSampleId :
TP-1

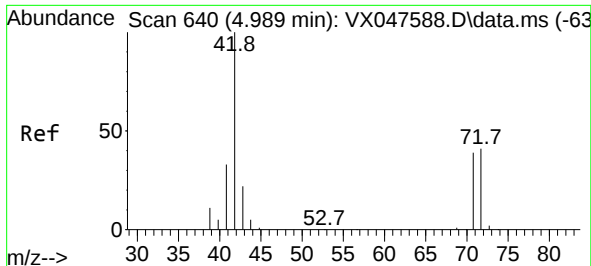
Tgt Ion: 84 Resp: 6395
Ion Ratio Lower Upper
84 100
49 135.9 108.6 162.8
51 41.8 32.6 48.8
86 62.5 52.0 78.0



#25
2-Butanone
Concen: 4.148 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.037 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

Tgt Ion: 43 Resp: 3983
Ion Ratio Lower Upper
43 100
72 19.2 20.1 30.1#





#29

Tetrahydrofuran

Concen: 0.289 ug/l

RT: 5.001 min Scan# 64

Delta R.T. 0.012 min

Lab File: VX048144.D

Acq: 13 Oct 2025 15:51

Instrument :

MSVOA_X

ClientSampleId :

TP-1

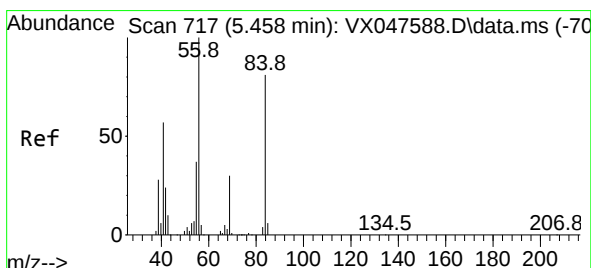
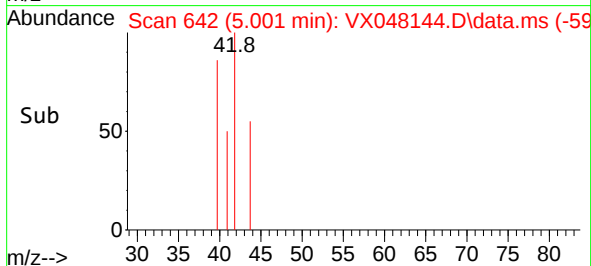
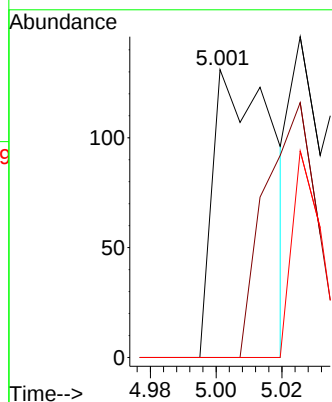
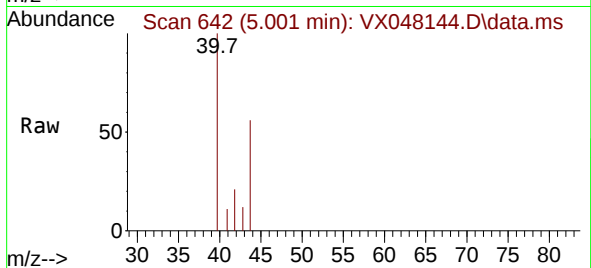
Tgt Ion: 42 Resp: 167

Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.2#

71 0.0 31.9 47.9#



#31

Cyclohexane

Concen: 1.091 ug/l

RT: 5.538 min Scan# 730

Delta R.T. 0.079 min

Lab File: VX048144.D

Acq: 13 Oct 2025 15:51

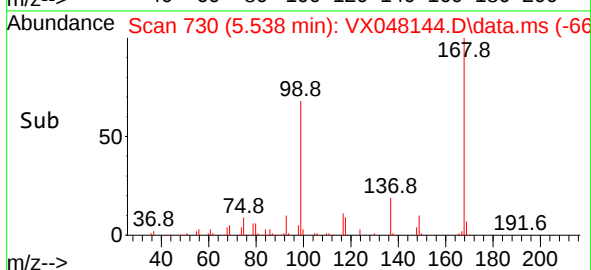
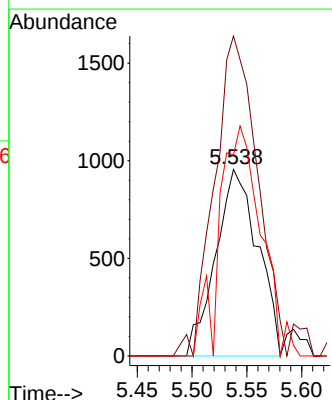
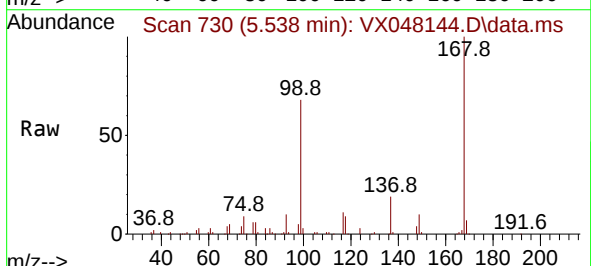
Tgt Ion: 56 Resp: 2553

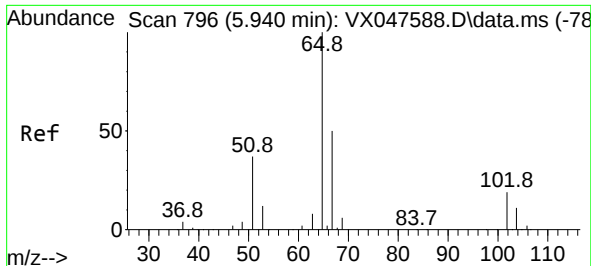
Ion Ratio Lower Upper

56 100

69 165.5 23.8 35.8#

84 107.7 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 54.144 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX048144.D

Acq: 13 Oct 2025 15:51

Instrument :

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ClientSampleId :

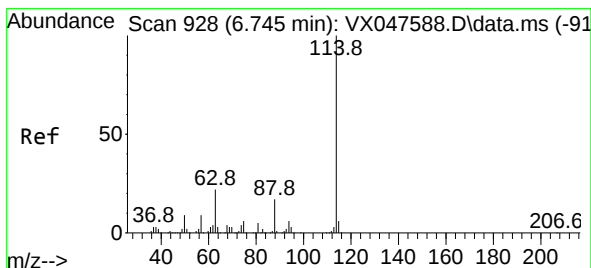
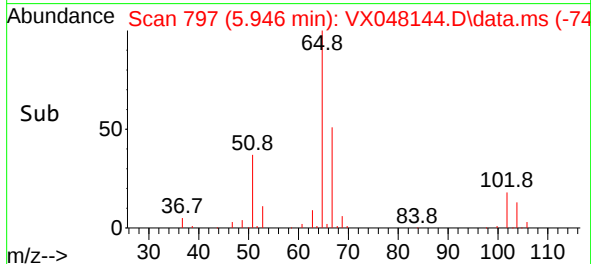
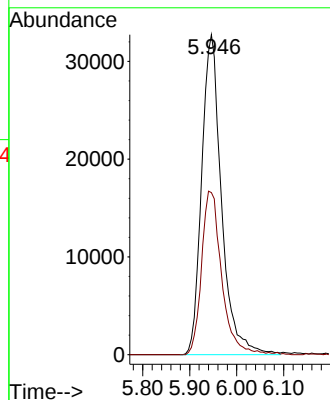
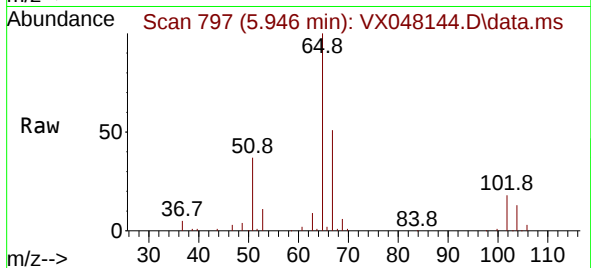
TP-1

Tgt Ion: 65 Resp: 95861

Ion Ratio Lower Upper

65 100

67 51.8 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX048144.D

Acq: 13 Oct 2025 15:51

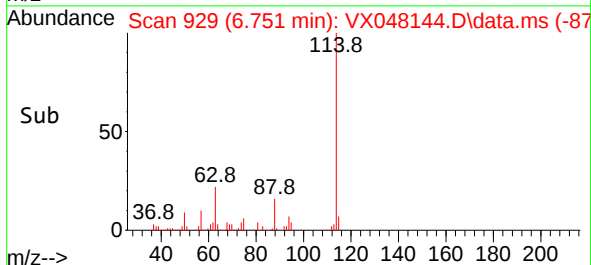
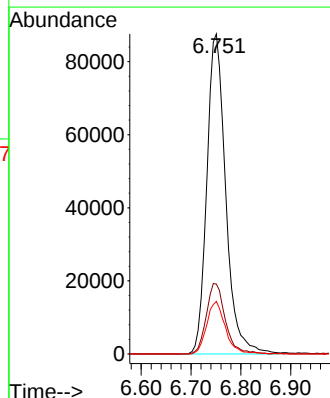
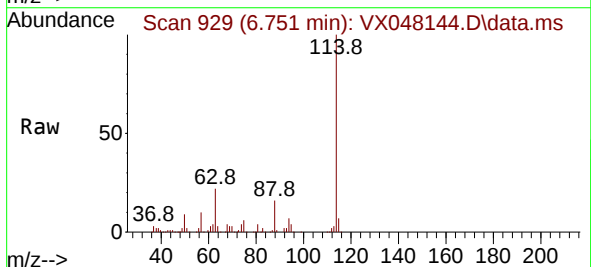
Tgt Ion: 114 Resp: 230199

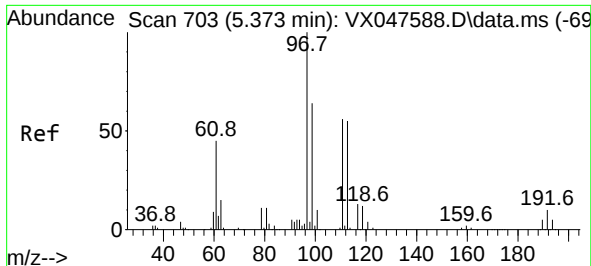
Ion Ratio Lower Upper

114 100

63 21.9 0.0 44.0

88 16.4 0.0 34.2





#35

Dibromofluoromethane

Concen: 49.959 ug/l

RT: 5.379 min Scan# 703

Delta R.T. 0.006 min

Lab File: VX048144.D

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ClientSampleId :

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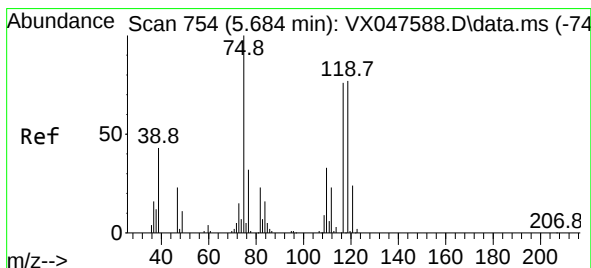
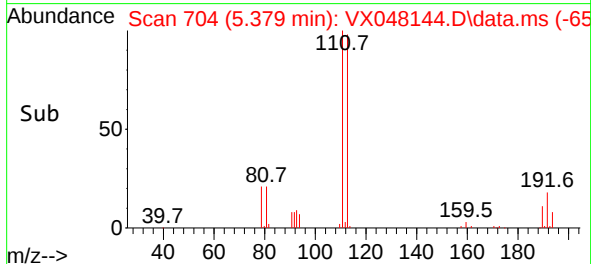
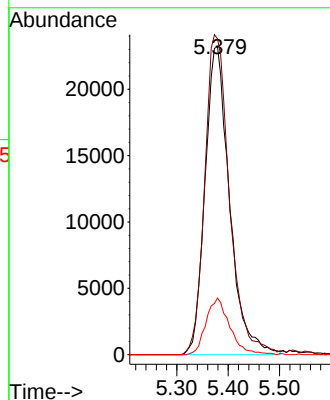
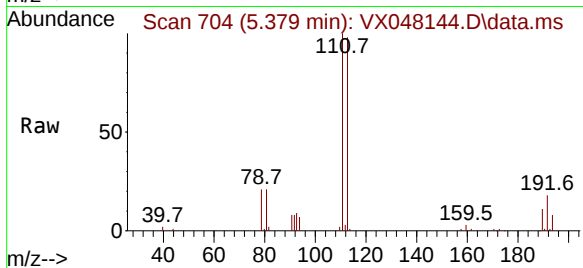
Tgt Ion:113 Resp: 77129

Ion Ratio Lower Upper

113 100

111 104.6 80.9 121.3

192 17.8 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.336 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.140 min

Lab File: VX048144.D

Acq: 13 Oct 2025 15:51

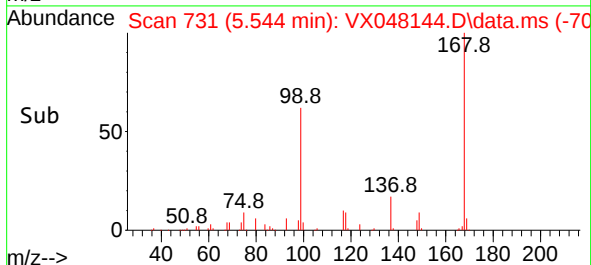
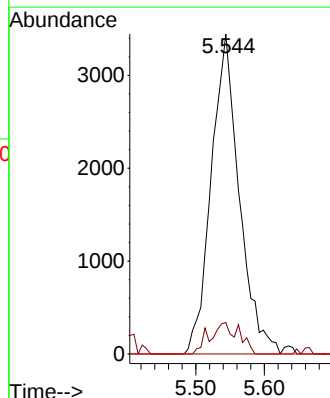
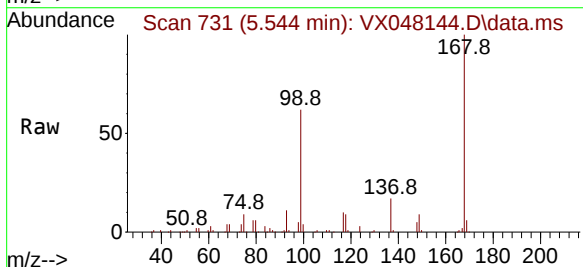
Tgt Ion: 75 Resp: 9781

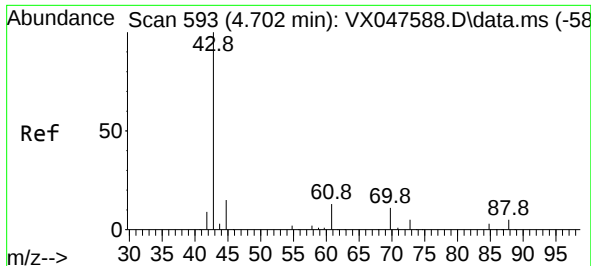
Ion Ratio Lower Upper

75 100

110 3.2 16.7 50.1#

77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 0.553 ug/l

RT: 4.733 min Scan# 598

Delta R.T. 0.030 min

Lab File: VX048144.D

Acq: 13 Oct 2025 15:51

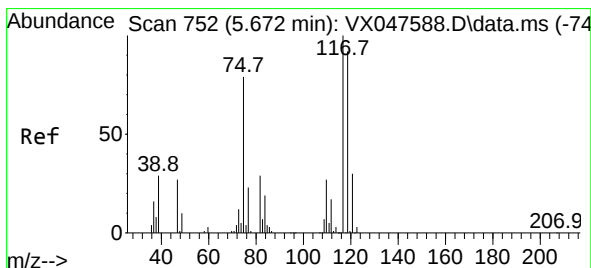
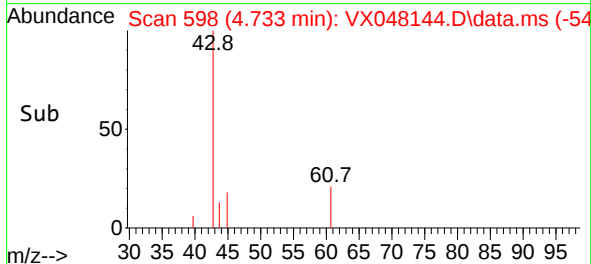
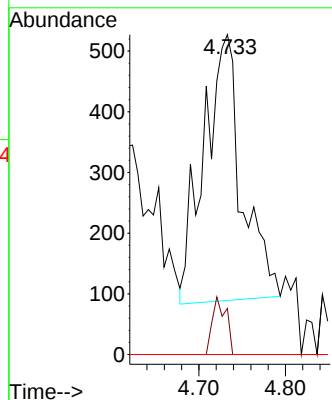
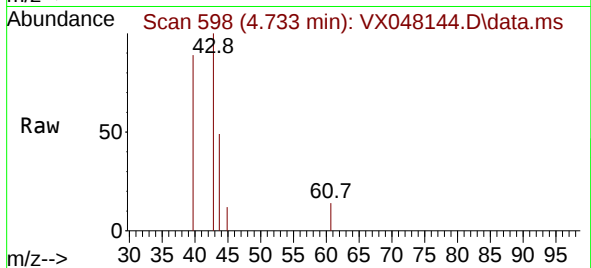
Instrument :

MSVOA_X

ClientSampleId :

TP-1

Tgt Ion: 43	Resp: 1336
Ion Ratio	Lower Upper
43	100
61	7.8 9.8 14.8#
70	0.0 7.9 11.9#



#38

Carbon Tetrachloride

Concen: 4.885 ug/l

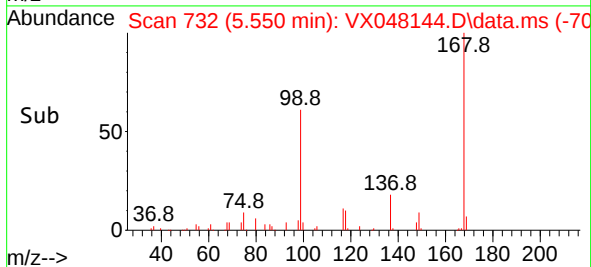
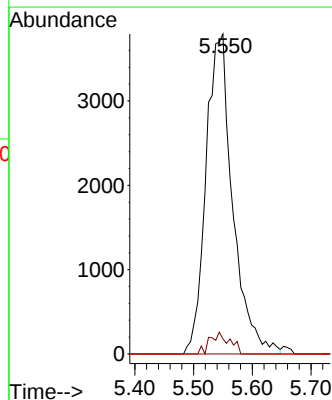
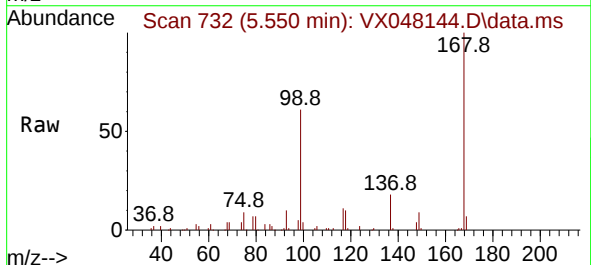
RT: 5.550 min Scan# 732

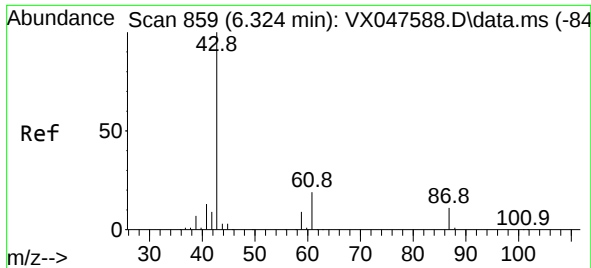
Delta R.T. -0.122 min

Lab File: VX048144.D

Acq: 13 Oct 2025 15:51

Tgt Ion: 117	Resp: 11973
Ion Ratio	Lower Upper
117	100
119	4.7 73.4 110.2#
121	0.0 23.8 35.6#

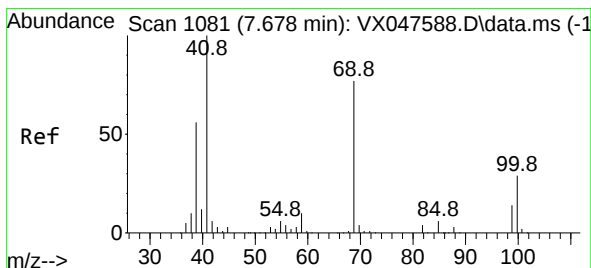
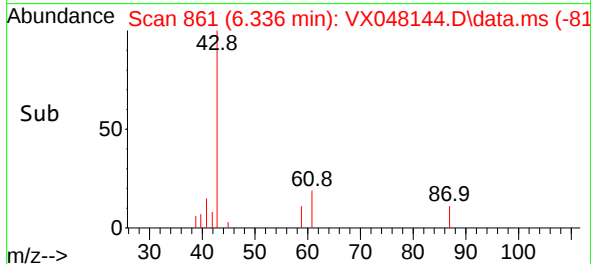
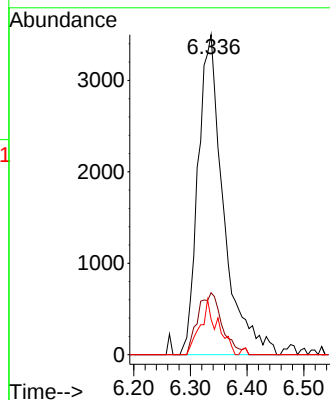
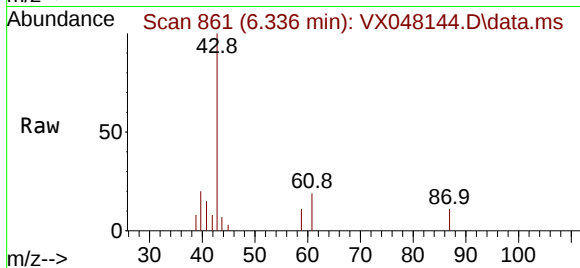




#43
Isopropyl Acetate
Concen: 2.757 ug/l
RT: 6.336 min Scan# 80
Delta R.T. 0.012 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

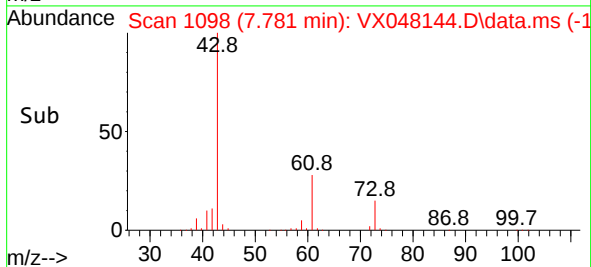
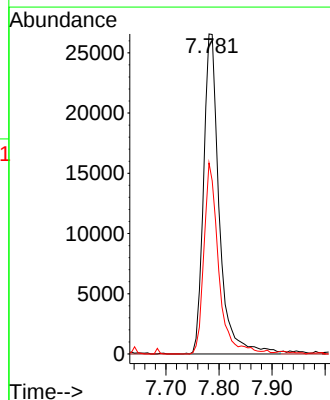
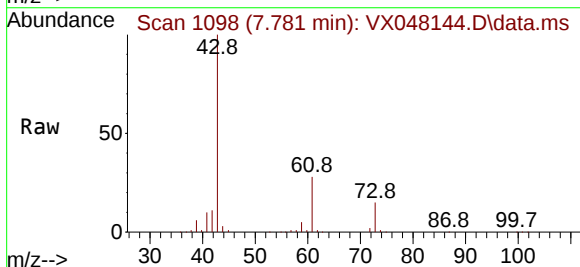
Instrument :
MSVOA_X
ClientSampleId :
TP-1

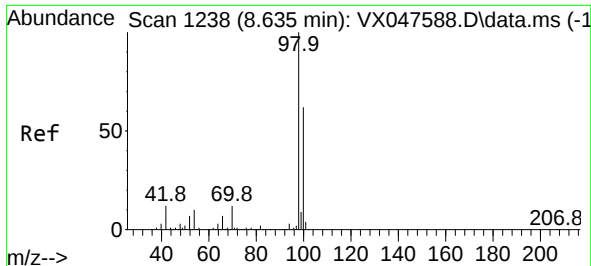
Tgt Ion:	43	Resp:	10920
Ion	Ratio	Lower	Upper
43	100		
61	18.6	15.2	22.8
87	12.0	9.6	14.4



#48
Methyl methacrylate
Concen: 27.671 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.104 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

Tgt Ion:	41	Resp:	54602
Ion	Ratio	Lower	Upper
41	100		
69	0.0	61.4	92.2#
39	55.7	45.8	68.6

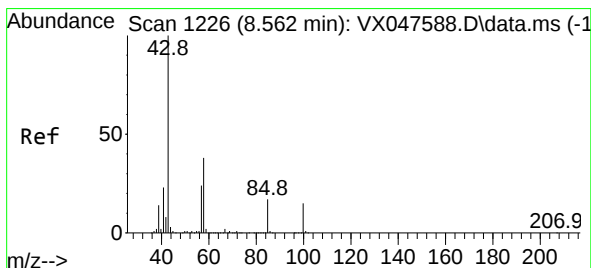
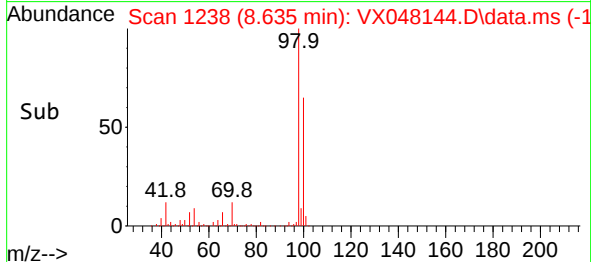
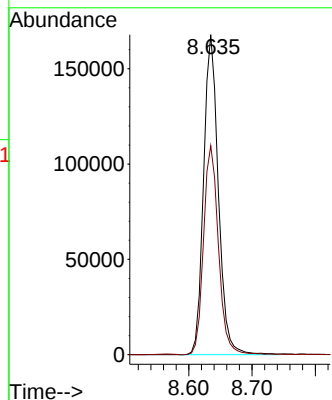
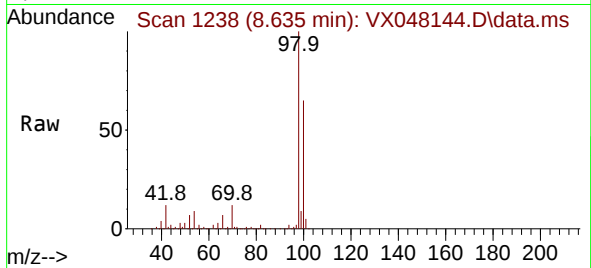




#50
Toluene-d8
Concen: 51.117 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

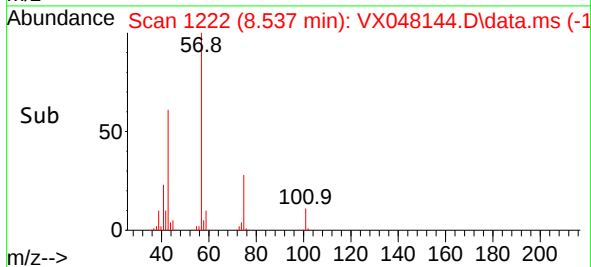
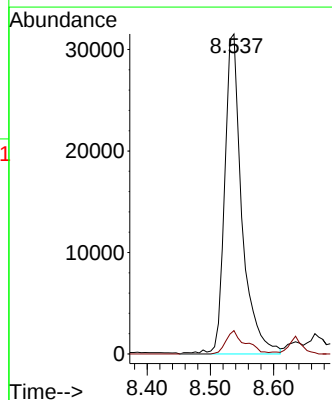
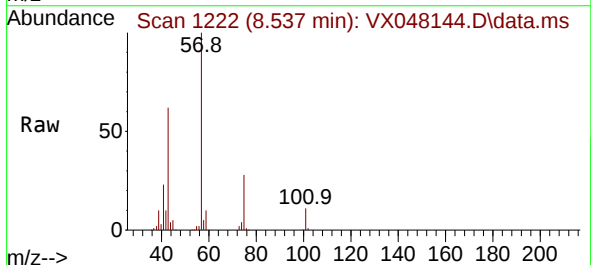
Instrument :
MSVOA_X
ClientSampleId :
TP-1

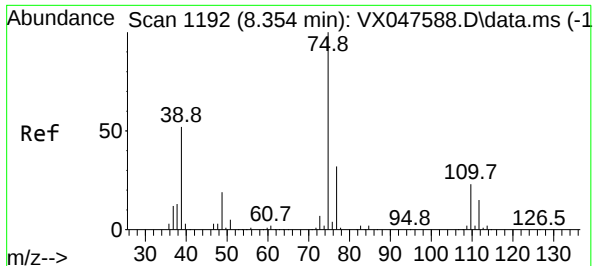
Tgt Ion: 98 Resp: 273065
Ion Ratio Lower Upper
98 100
100 66.1 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 27.061 ug/l
RT: 8.537 min Scan# 1222
Delta R.T. -0.024 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

Tgt Ion: 43 Resp: 59438
Ion Ratio Lower Upper
43 100
58 8.2 30.3 45.5#

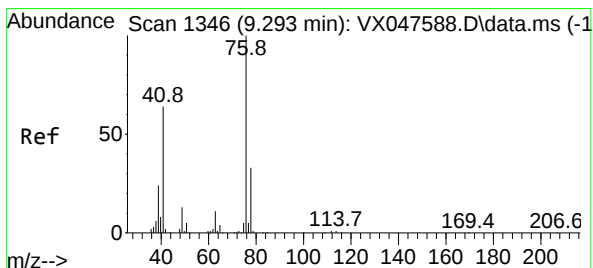
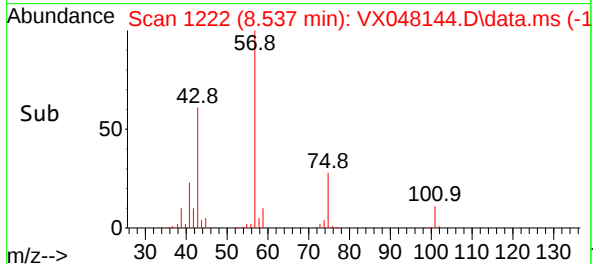
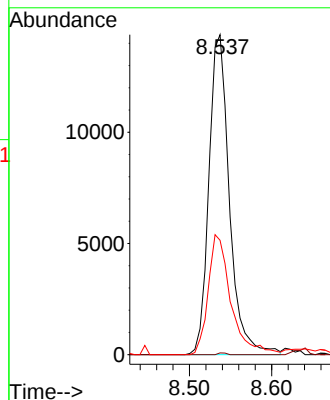
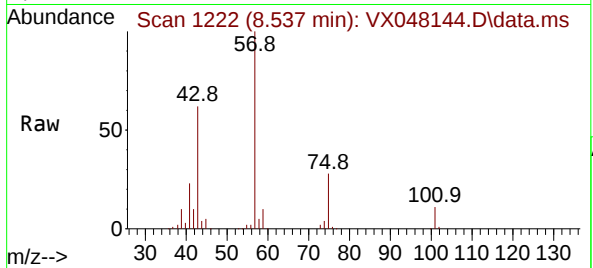




#54
cis-1,3-Dichloropropene
Concen: 8.679 ug/l
RT: 8.537 min Scan# 1192
Delta R.T. 0.183 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

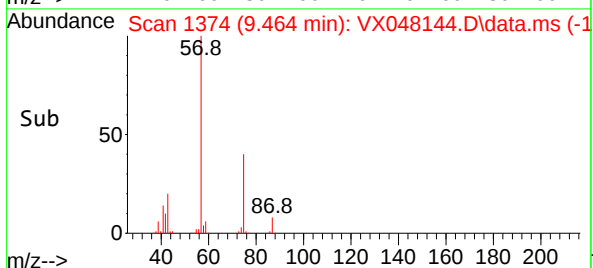
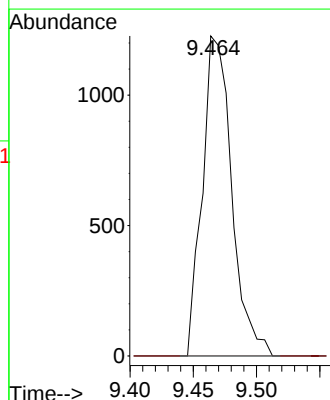
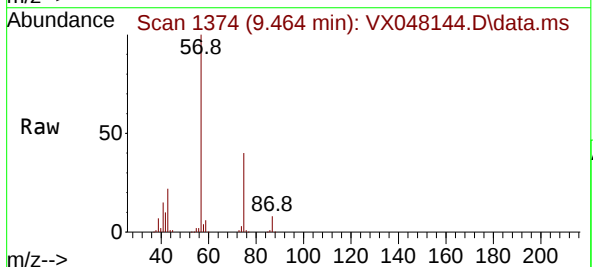
Instrument :
MSVOA_X
ClientSampleId :
TP-1

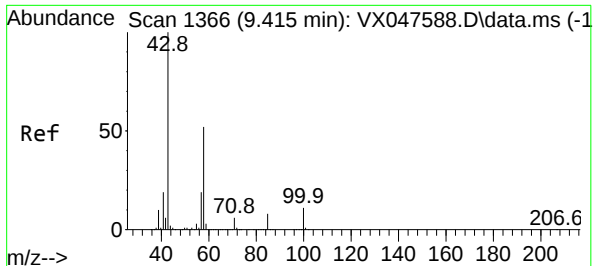
Tgt Ion: 75 Resp: 24929
Ion Ratio Lower Upper
75 100
77 0.5 25.8 38.6#
39 35.0 41.4 62.2#



#57
1,3-Dichloropropane
Concen: 0.709 ug/l
RT: 9.464 min Scan# 1374
Delta R.T. 0.171 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

Tgt Ion: 76 Resp: 1982
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#





#59

2-Hexanone

Concen: 19.349 ug/l

RT: 9.470 min Scan# 11

Delta R.T. 0.055 min

Lab File: VX048144.D

Acq: 13 Oct 2025 15:51

Instrument :

MSVOA_X

ClientSampleId :

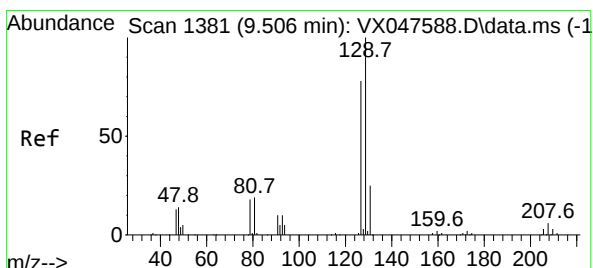
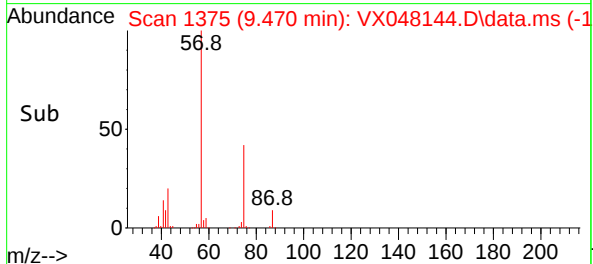
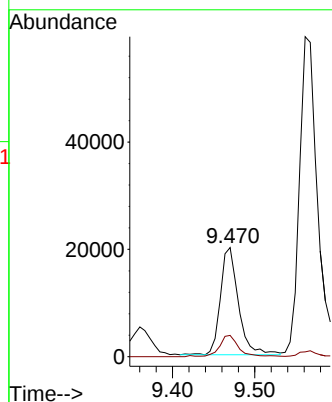
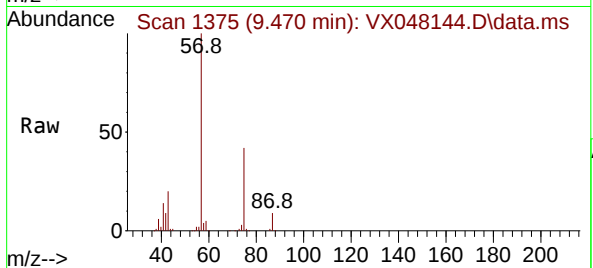
TP-1

Tgt Ion: 43 Resp: 30523

Ion Ratio Lower Upper

43 100

58 20.0 26.1 78.2#



#60

Dibromochloromethane

Concen: 0.281 ug/l

RT: 9.263 min Scan# 1341

Delta R.T. -0.244 min

Lab File: VX048144.D

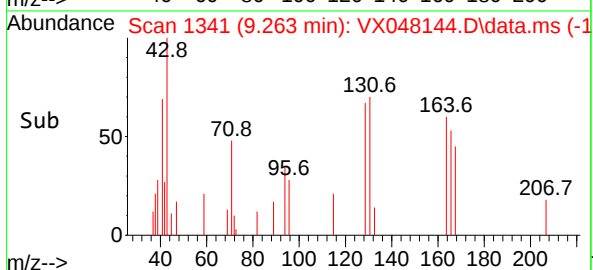
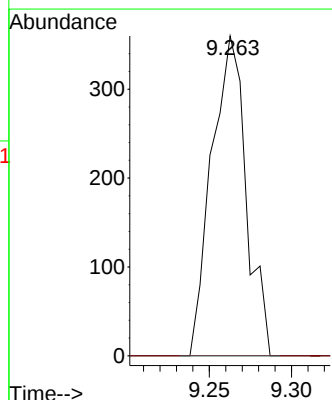
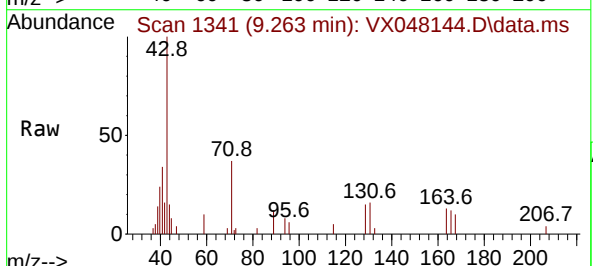
Acq: 13 Oct 2025 15:51

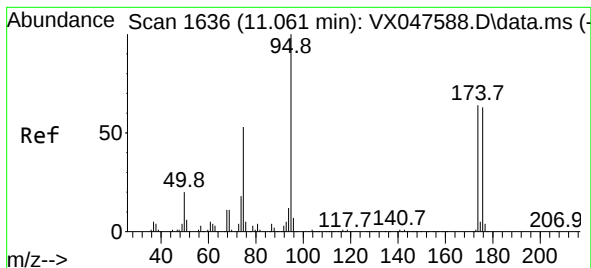
Tgt Ion: 129 Resp: 527

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#

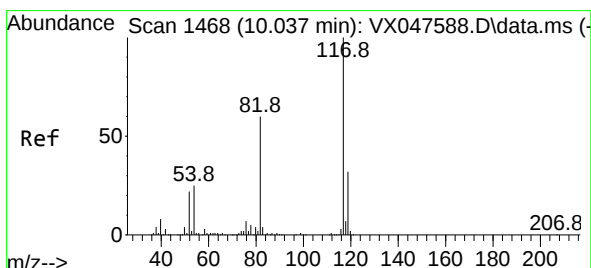
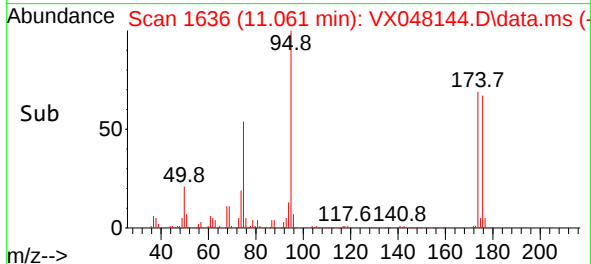
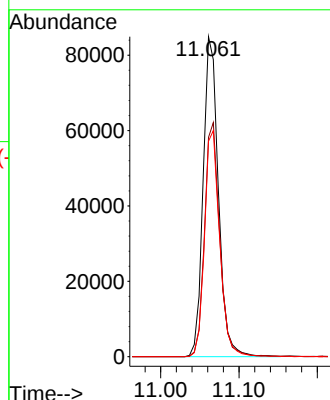
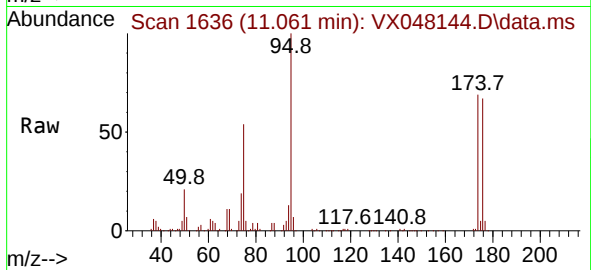




#62
4-Bromofluorobenzene
Concen: 56.631 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

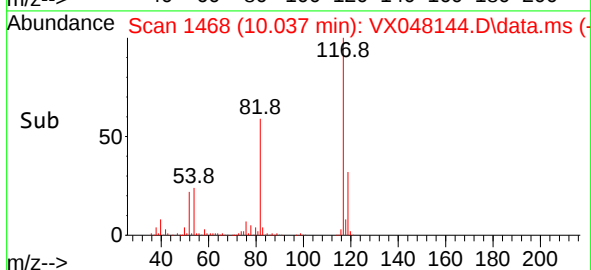
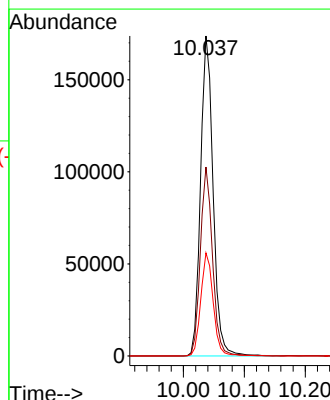
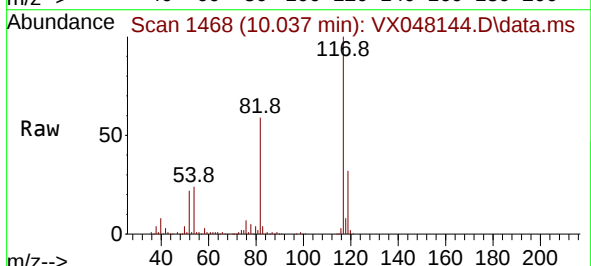
Instrument :
MSVOA_X
ClientSampleId :
TP-1

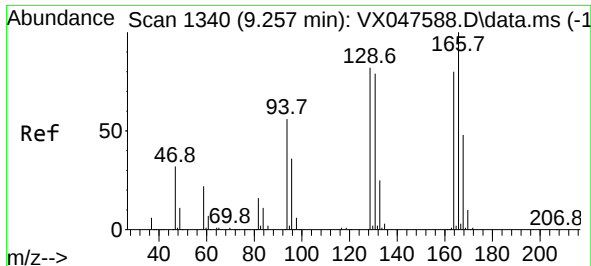
Tgt Ion: 95 Resp: 114812
Ion Ratio Lower Upper
95 100
174 72.9 0.0 141.6
176 70.5 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

Tgt Ion: 117 Resp: 247574
Ion Ratio Lower Upper
117 100
82 59.1 47.8 71.6
119 32.2 25.2 37.8

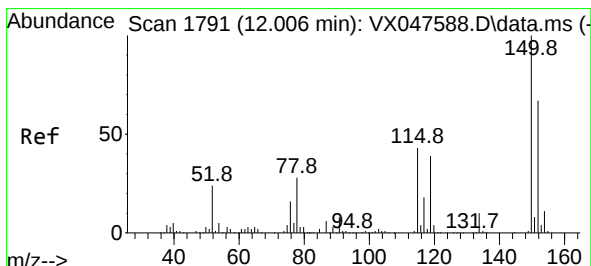
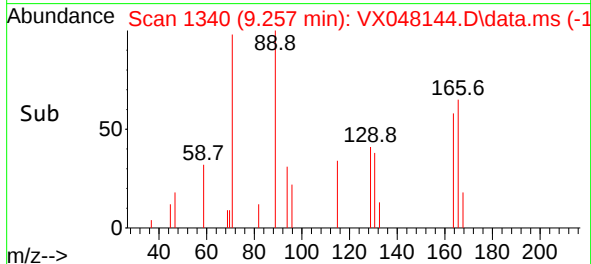
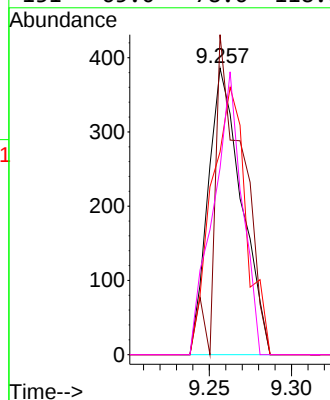
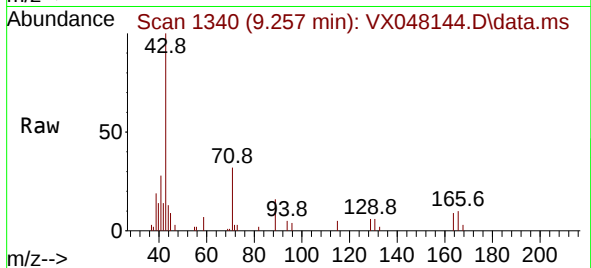




#64
Tetrachloroethene
Concen: 0.340 ug/l
RT: 9.257 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

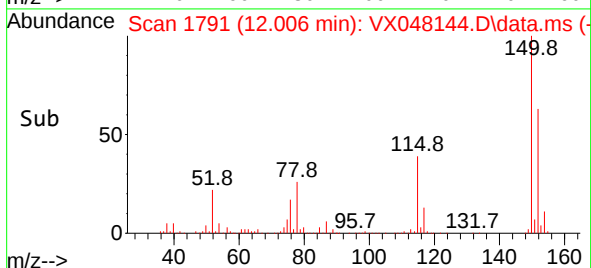
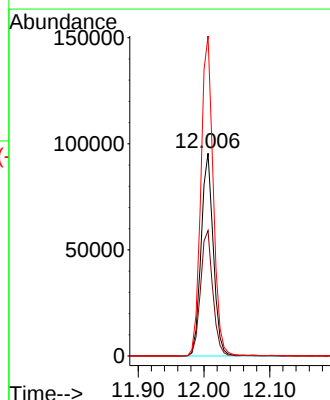
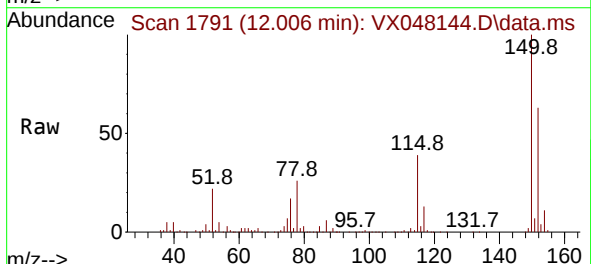
Instrument :
MSVOA_X
ClientSampleId :
TP-1

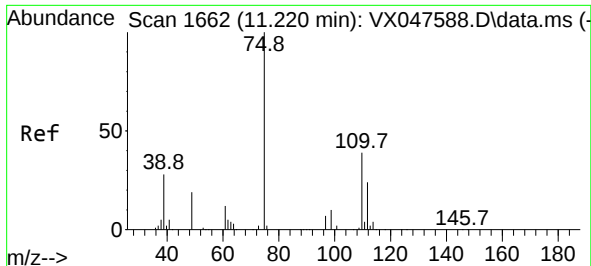
Tgt Ion:164	Resp:	548
Ion Ratio	Lower	Upper
164	100	
166	111.7	100.2 150.2
129	70.7	81.8 122.6#
131	65.0	78.6 118.0#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

Tgt Ion:152	Resp:	123164
Ion Ratio	Lower	Upper
152	100	
115	62.4	44.9 134.5
150	159.6	0.0 352.0

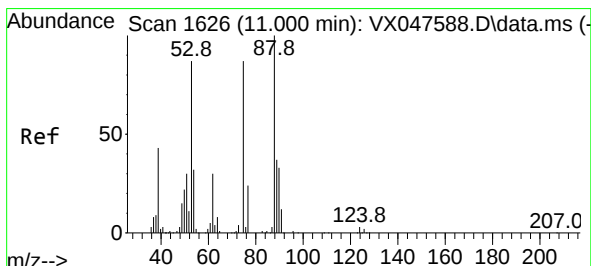
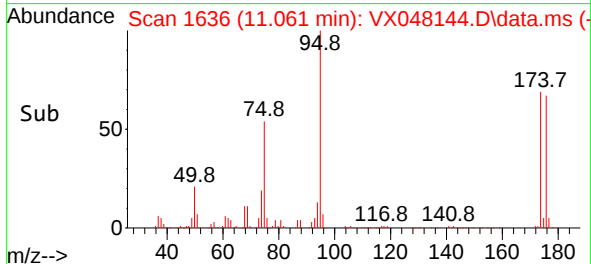
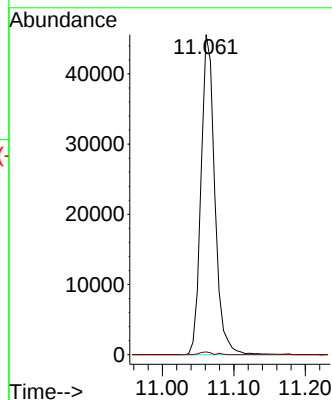
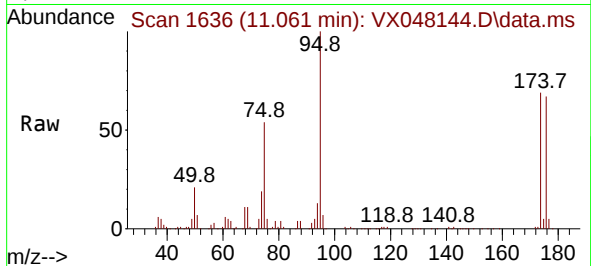




#76
1,2,3-Trichloropropane
Concen: 24.440 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

Instrument :
MSVOA_X
ClientSampleId :
TP-1

Tgt Ion: 75 Resp: 60946
Ion Ratio Lower Upper
75 100
77 0.8 18.8 56.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 62.326 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048144.D
Acq: 13 Oct 2025 15:51

Tgt Ion: 75 Resp: 60946
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#

