

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
 Data File : VX048370.D
 Acq On : 27 Oct 2025 14:42
 Operator : JC/MD
 Sample : Q3446-03 100X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-16DL

Quant Time: Oct 28 01:54:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

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

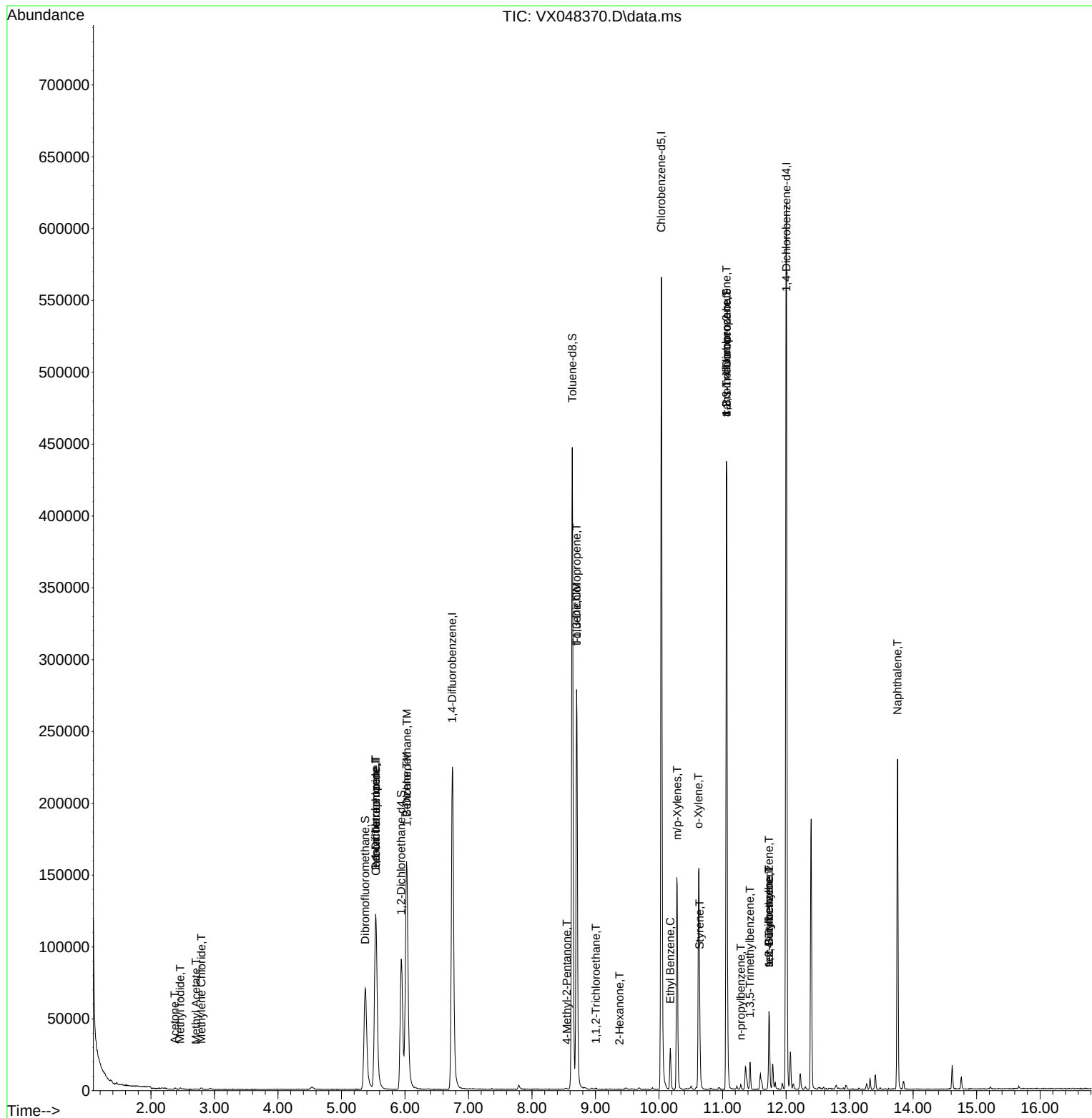
Internal Standards						
1) Pentafluorobenzene	5.537	168	120414	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	247613	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	252681	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	131639	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	101996	60.414	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 120.820%#			
35) Dibromofluoromethane	5.373	113	69655	41.205	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 82.420%			
50) Toluene-d8	8.634	98	274537	46.334	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 92.660%			
62) 4-Bromofluorobenzene	11.061	95	124052	55.034	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 110.060%			
Target Compounds					Qvalue	
10) Methyl Iodide	2.459	142	1262	0.773	ug/l #	89
16) Acetone	2.373	43	1157	1.998	ug/l #	80
18) Methyl Acetate	2.709	43	561	0.464	ug/l #	54
20) Methylene Chloride	2.794	84	500	0.354	ug/l #	86
36) 1,1-Dichloropropene	5.537	75	10743	4.471	ug/l #	48
38) Carbon Tetrachloride	5.544	117	12843	4.333	ug/l #	14
40) Benzene	6.025	78	206357	29.582	ug/l	97
42) 1,2-Dichloroethane	6.031	62	2223	0.864	ug/l #	76
51) 4-Methyl-2-Pentanone	8.549	43	722	0.383	ug/l #	38
52) Toluene	8.702	92	109191	24.639	ug/l	99
53) t-1,3-Dichloropropene	8.702	75	1298	0.483	ug/l #	1
55) 1,1,2-Trichloroethane	9.006	97	535	0.325	ug/l #	14
59) 2-Hexanone	9.378	43	355	0.270	ug/l #	26
67) Ethyl Benzene	10.177	91	16985	1.755	ug/l	98
68) m/p-Xylenes	10.287	106	36025	10.019	ug/l	98
69) o-Xylene	10.622	106	32998	9.506	ug/l	97
70) Styrene	10.640	104	15866	2.684	ug/l #	72
76) 1,2,3-Trichloropropane	11.061	75	66292	31.054	ug/l #	33
78) n-propylbenzene	11.286	91	2266	0.204	ug/l	98
80) 1,3,5-Trimethylbenzene	11.433	105	7664	0.963	ug/l	93
81) trans-1,4-Dichloro-2-b...	11.061	75	66292	75.552	ug/l #	10
83) tert-Butylbenzene	11.731	119	2833	0.347	ug/l #	42
84) 1,2,4-Trimethylbenzene	11.731	105	23651	2.978	ug/l	99
85) sec-Butylbenzene	11.731	105	23651	2.405	ug/l #	56
95) Naphthalene	13.756	128	134018	17.529	ug/l	100

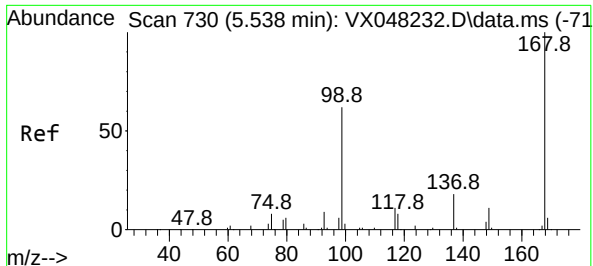
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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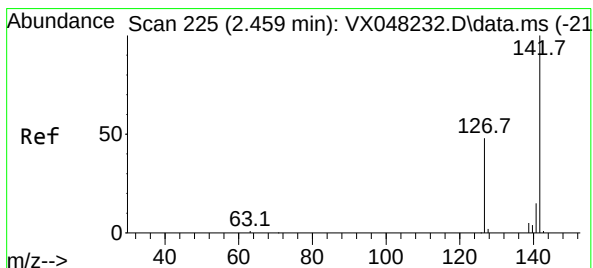
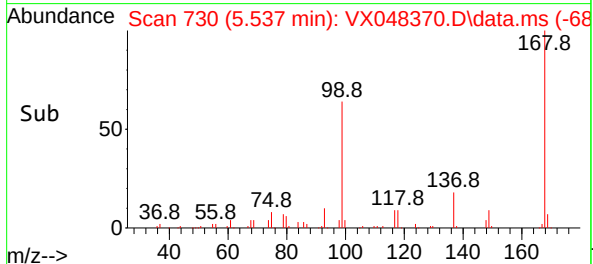
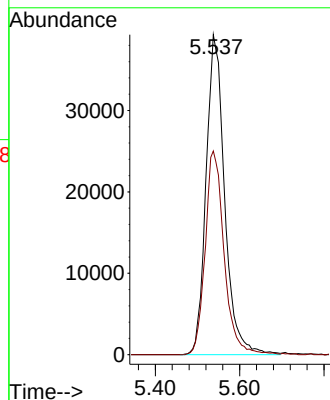
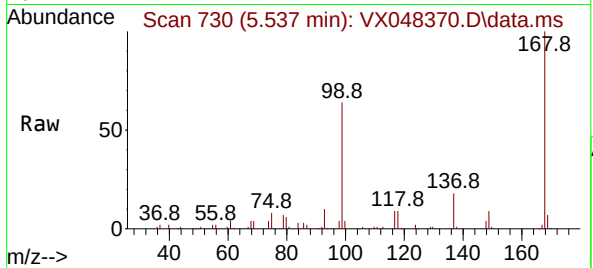




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.007 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

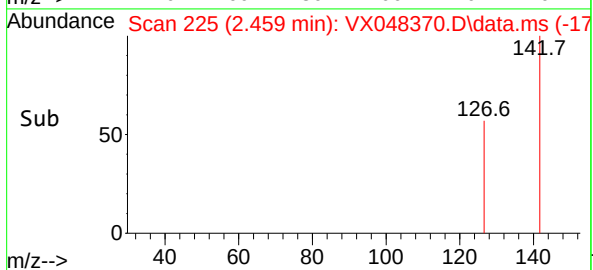
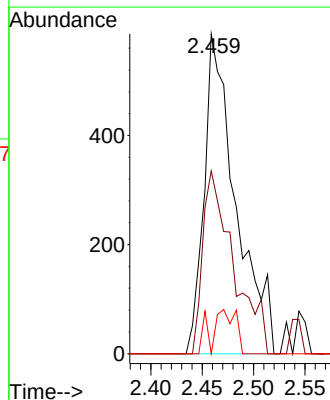
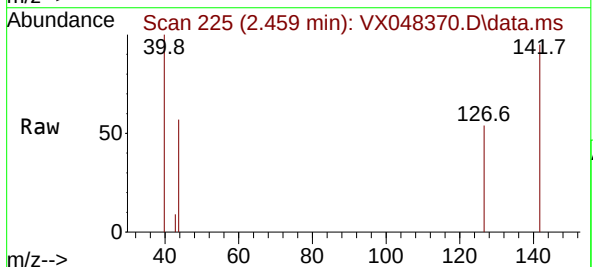
Instrument :
MSVOA_X
ClientSampleId :
SB-16DL

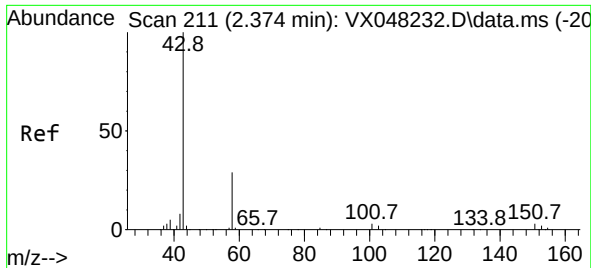
Tgt Ion:168 Resp: 120414
Ion Ratio Lower Upper
168 100
99 63.6 46.4 69.6



#10
Methyl Iodide
Concen: 0.773 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion:142 Resp: 1262
Ion Ratio Lower Upper
142 100
127 55.5 38.5 57.7
141 10.6 11.6 17.4#

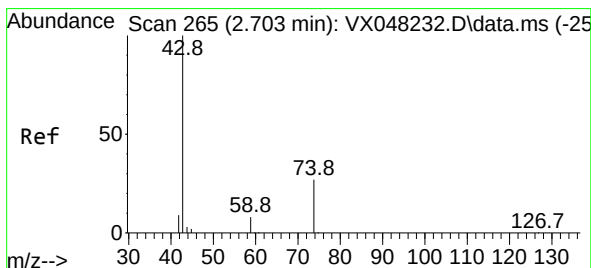
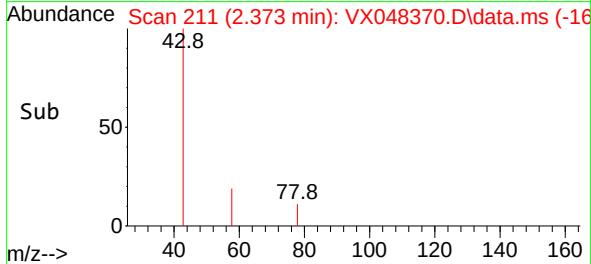
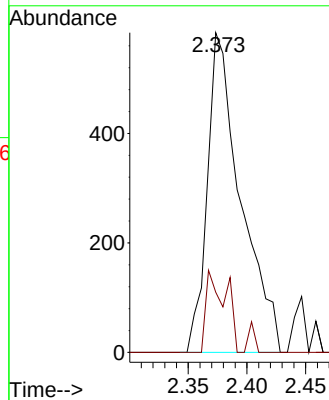
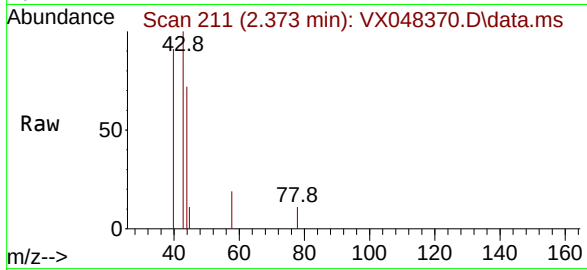




#16
Acetone
Concen: 1.998 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

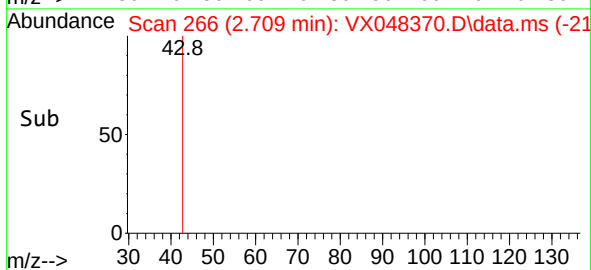
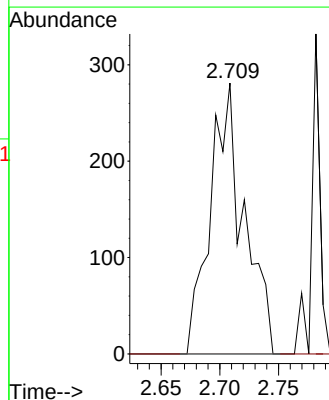
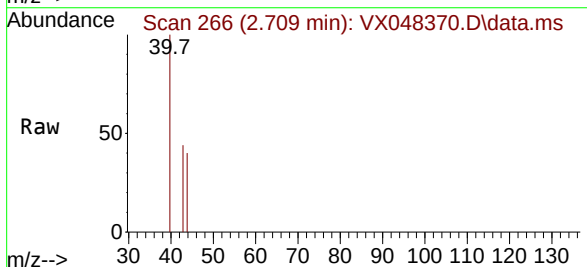
Instrument :
MSVOA_X
ClientSampleId :
SB-16DL

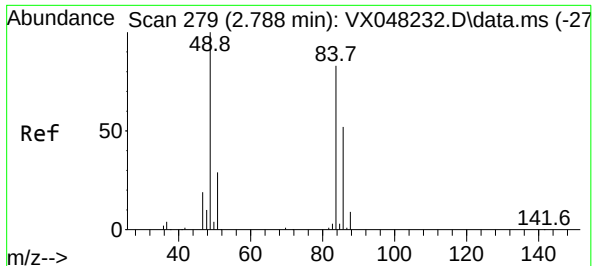
Tgt Ion: 43 Resp: 1157
Ion Ratio Lower Upper
43 100
58 18.8 23.4 35.2#



#18
Methyl Acetate
Concen: 0.464 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.012 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion: 43 Resp: 561
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#

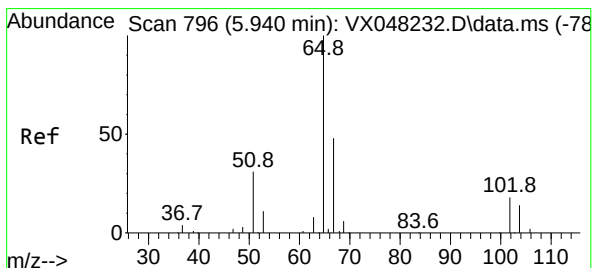
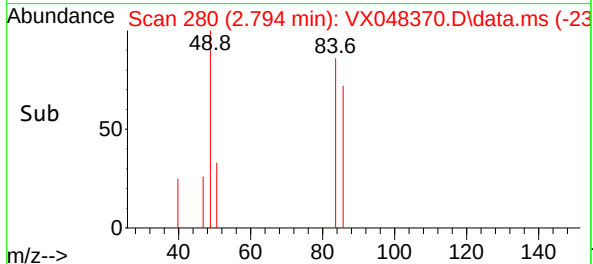
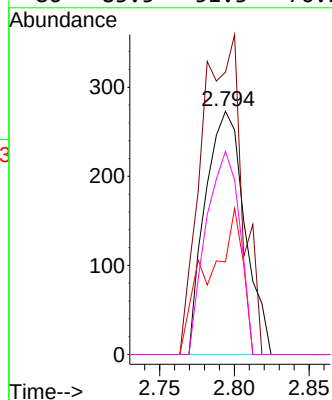
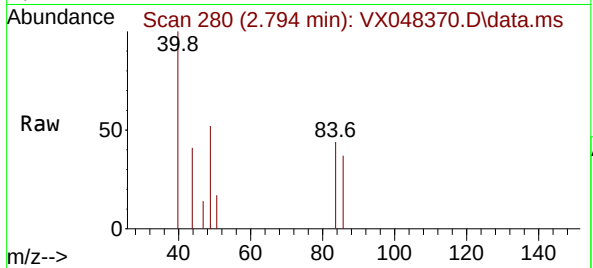




#20
Methylene Chloride
Concen: 0.354 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

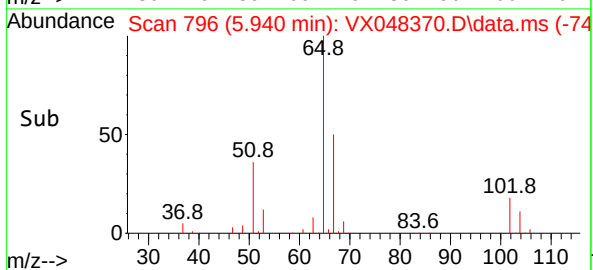
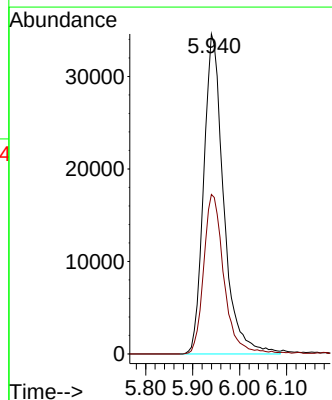
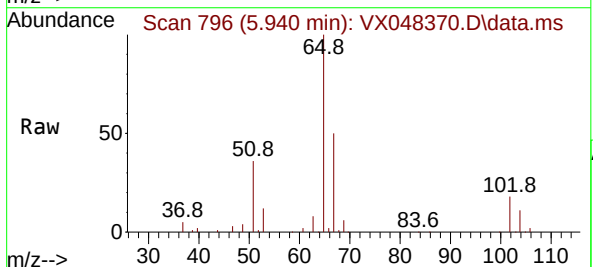
Instrument :
MSVOA_X
ClientSampleId :
SB-16DL

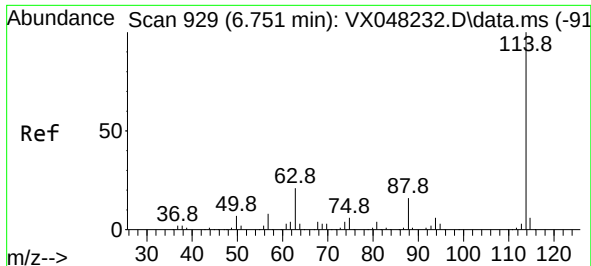
Tgt Ion: 84 Resp: 500
Ion Ratio Lower Upper
84 100
49 116.1 104.1 156.1
51 38.1 31.3 46.9
86 83.5 51.3 76.9#



#33
1,2-Dichloroethane-d4
Concen: 60.414 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion: 65 Resp: 101996
Ion Ratio Lower Upper
65 100
67 50.7 0.0 105.0

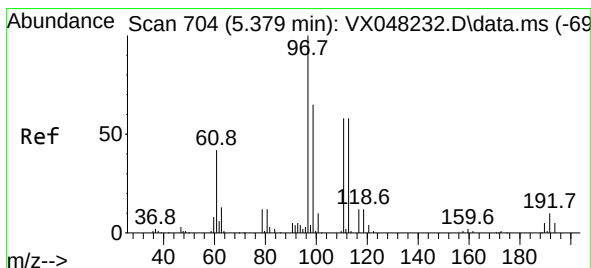
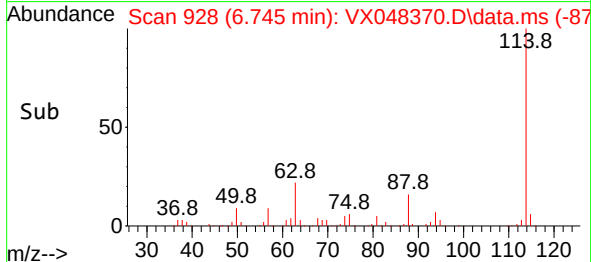
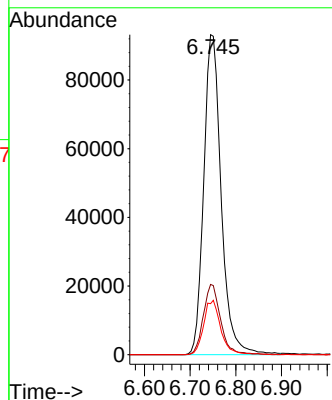
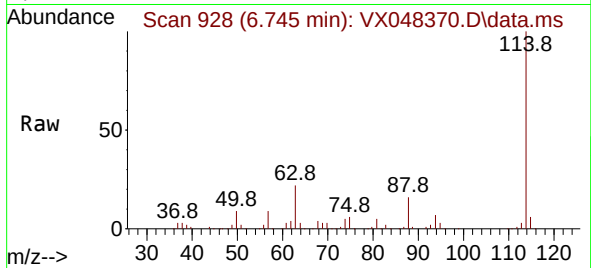




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

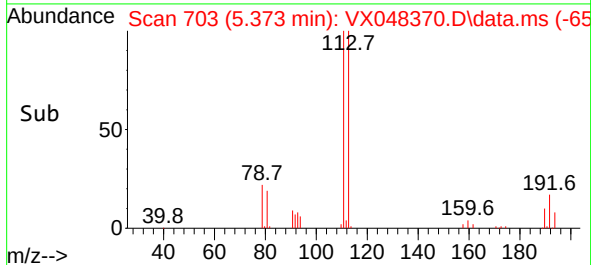
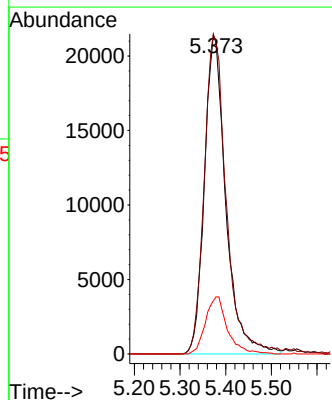
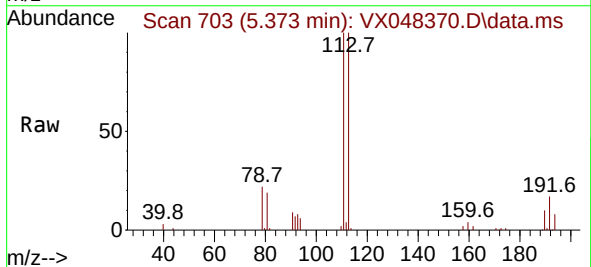
Instrument :
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ClientSampleId :
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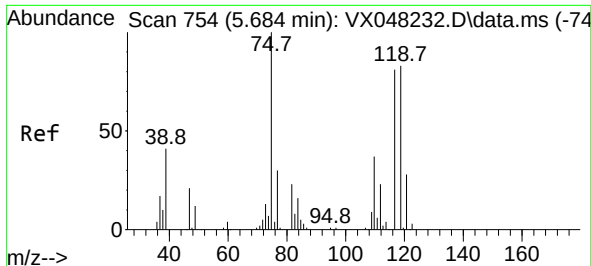
Tgt Ion:114 Resp: 247613
Ion Ratio Lower Upper
114 100
63 21.9 0.0 43.2
88 15.9 0.0 33.6



#35
Dibromofluoromethane
Concen: 41.205 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion:113 Resp: 69655
Ion Ratio Lower Upper
113 100
111 103.0 82.2 123.4
192 18.3 15.1 22.7

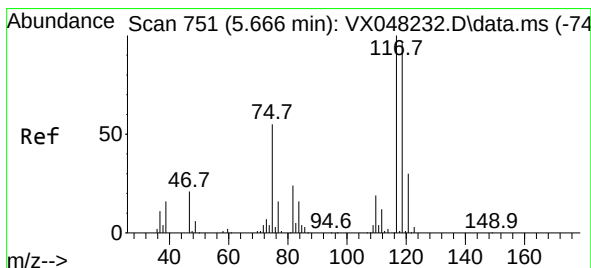
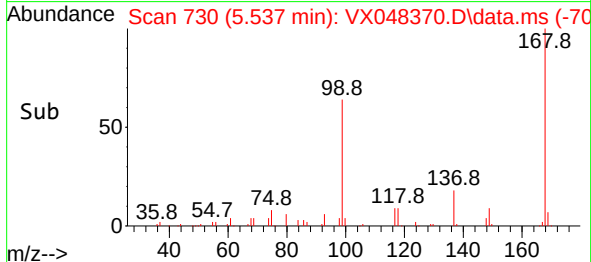
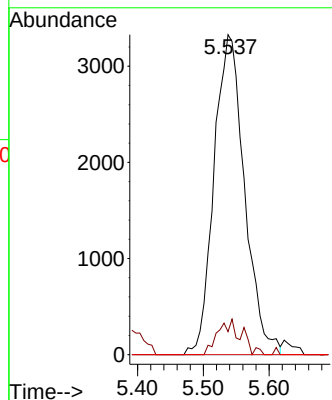
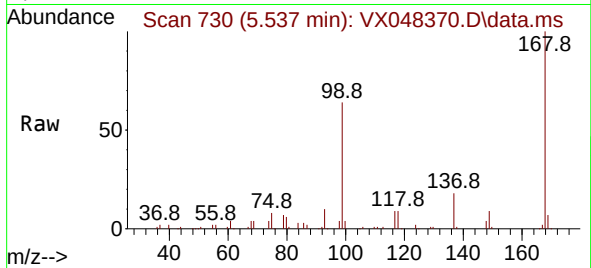




#36
1,1-Dichloropropene
Concen: 4.471 ug/l
RT: 5.537 min Scan# 711
Delta R.T. -0.146 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

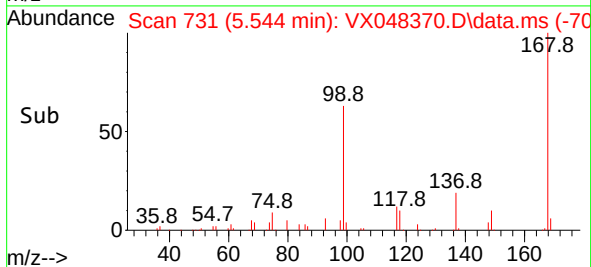
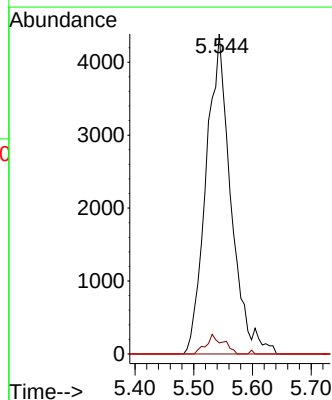
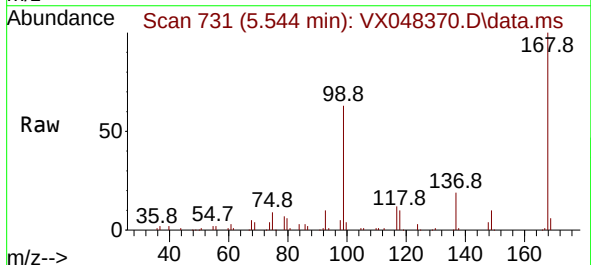
Instrument :
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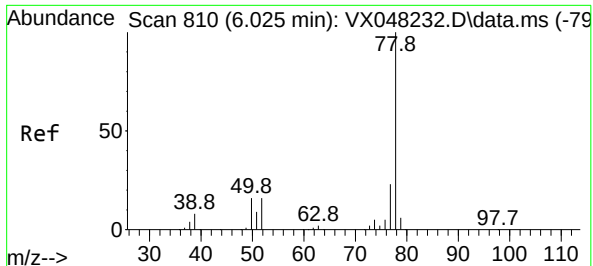
Tgt Ion: 75 Resp: 10743
Ion Ratio Lower Upper
75 100
110 6.6 17.7 53.1#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 4.333 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.122 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion: 117 Resp: 12843
Ion Ratio Lower Upper
117 100
119 3.5 77.2 115.8#
121 0.0 24.8 37.2#

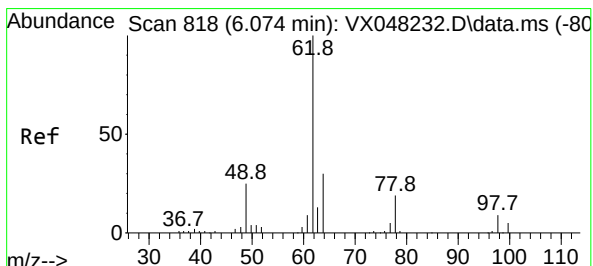
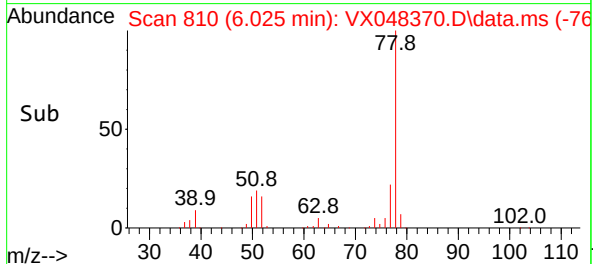
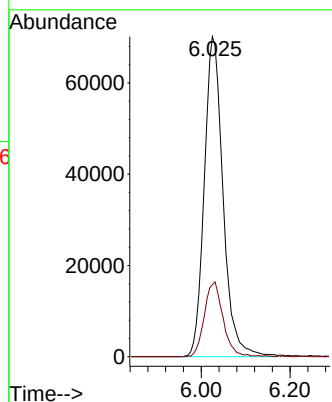
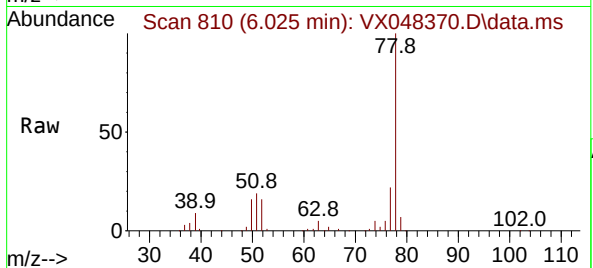




#40
Benzene
Concen: 29.582 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

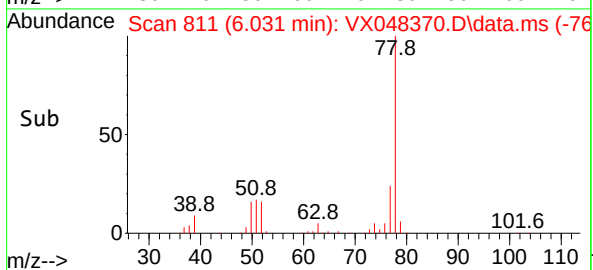
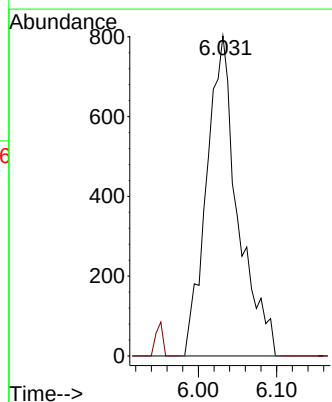
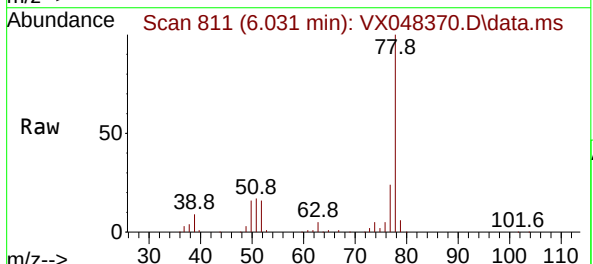
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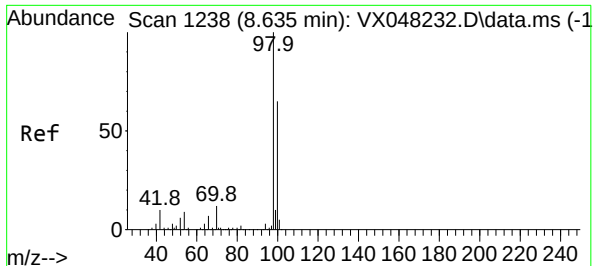
Tgt Ion: 78 Resp: 206357
Ion Ratio Lower Upper
78 100
77 22.5 19.3 28.9



#42
1,2-Dichloroethane
Concen: 0.864 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.037 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion: 62 Resp: 2223
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.2

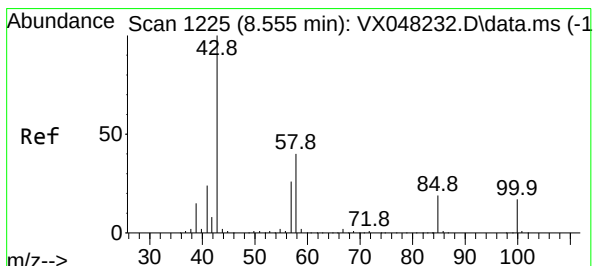
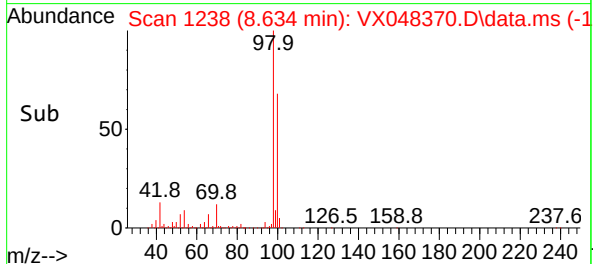
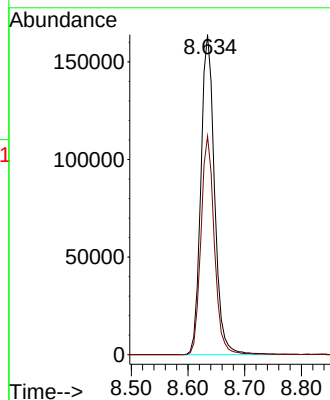
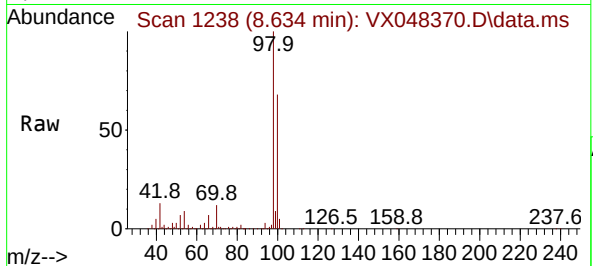




#50
Toluene-d8
Concen: 46.334 ug/l
RT: 8.634 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

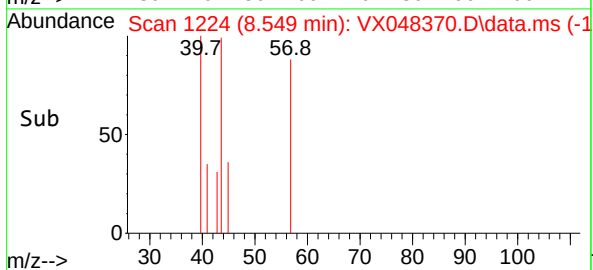
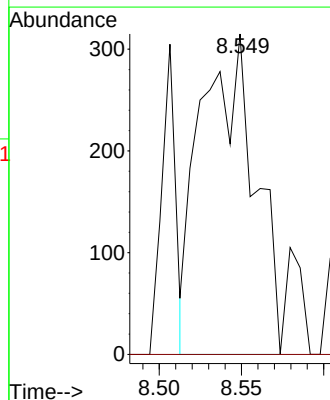
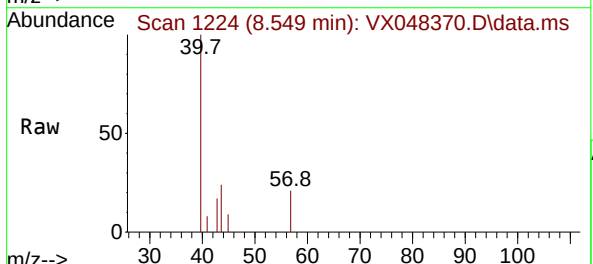
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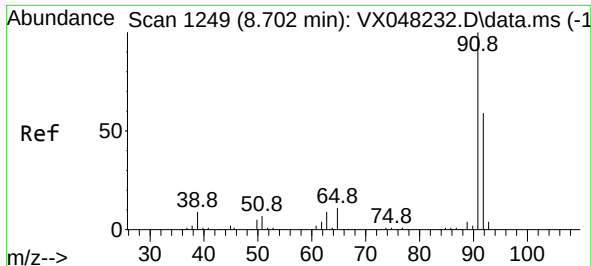
Tgt Ion: 98 Resp: 274537
Ion Ratio Lower Upper
98 100
100 67.1 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.383 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.006 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion: 43 Resp: 722
Ion Ratio Lower Upper
43 100
58 0.0 29.5 44.3#

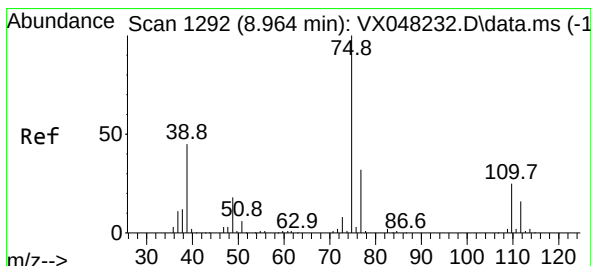
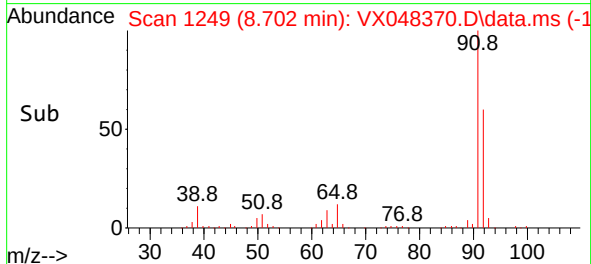
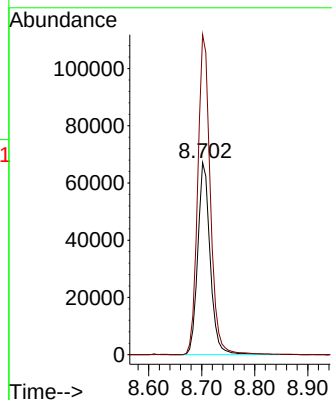
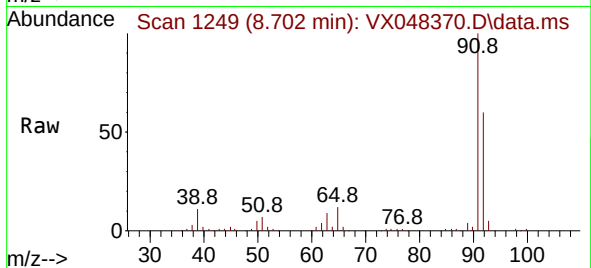




#52
Toluene
Concen: 24.639 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

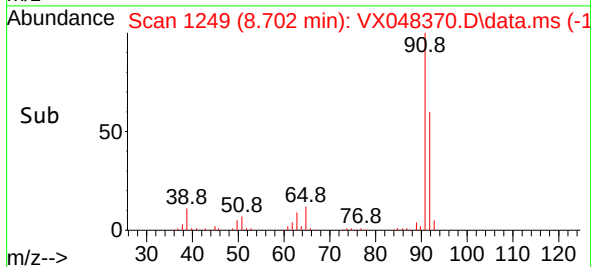
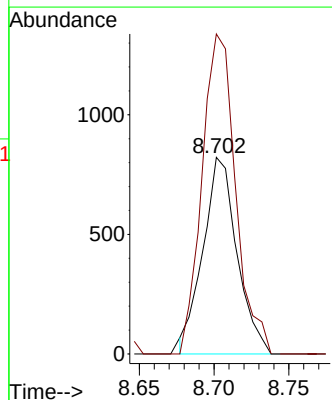
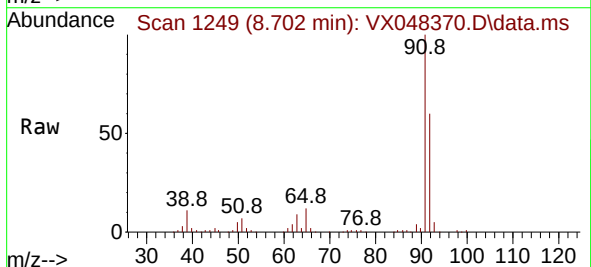
Instrument :
MSVOA_X
ClientSampleId :
SB-16DL

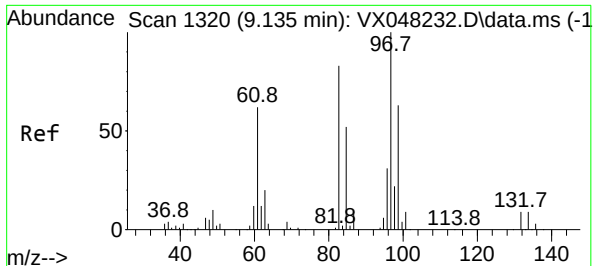
Tgt Ion: 92 Resp: 109191
Ion Ratio Lower Upper
92 100
91 168.8 136.1 204.1



#53
t-1,3-Dichloropropene
Concen: 0.483 ug/l
RT: 8.702 min Scan# 1249
Delta R.T. -0.262 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion: 75 Resp: 1298
Ion Ratio Lower Upper
75 100
77 162.8 25.0 37.6#

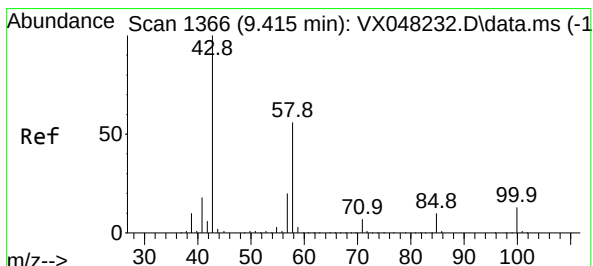
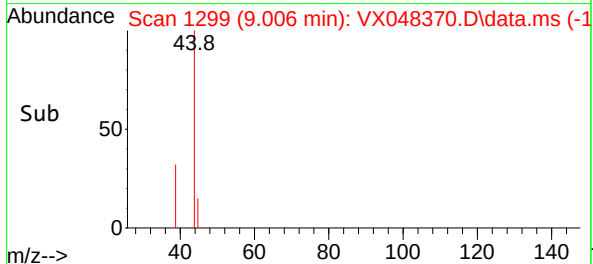
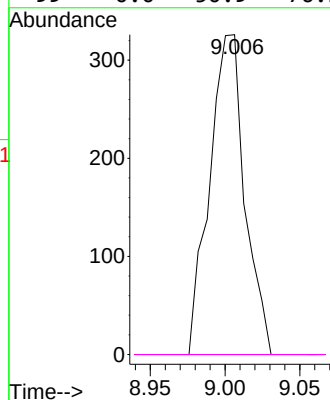
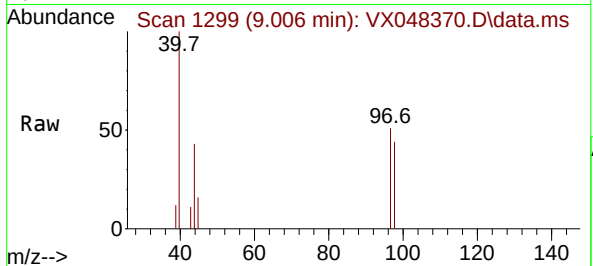




#55
1,1,2-Trichloroethane
Concen: 0.325 ug/l
RT: 9.006 min Scan# 11
Delta R.T. -0.128 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

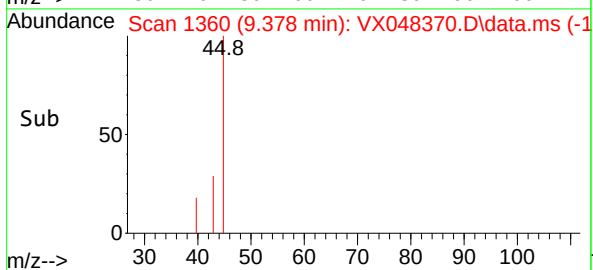
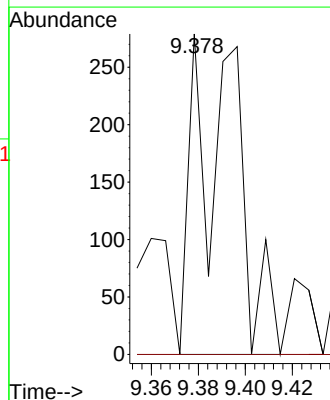
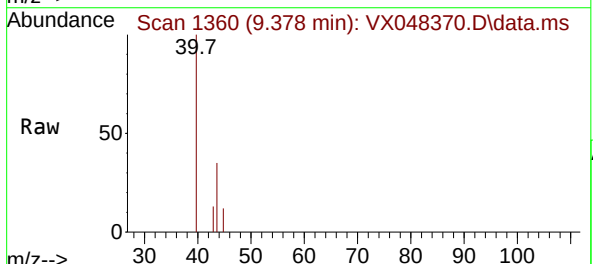
Instrument :
MSVOA_X
ClientSampleId :
SB-16DL

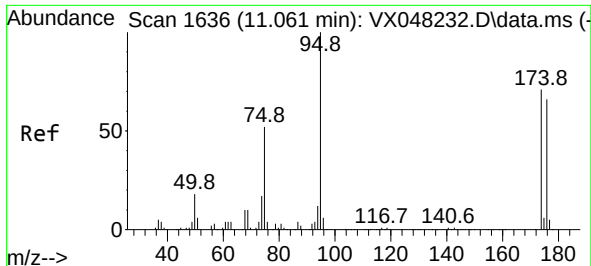
Tgt Ion: 97	Resp: 535
Ion Ratio	Lower Upper
97 100	
83 0.0	70.6 105.8#
85 0.0	45.0 67.6#
99 0.0	50.9 76.3#



#59
2-Hexanone
Concen: 0.270 ug/l
RT: 9.378 min Scan# 1360
Delta R.T. -0.037 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion: 43	Resp:	355	
Ion	Ratio	Lower	Upper
43	100		
58	0.0	26.3	78.8#

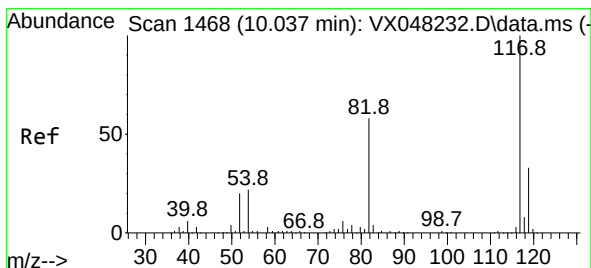
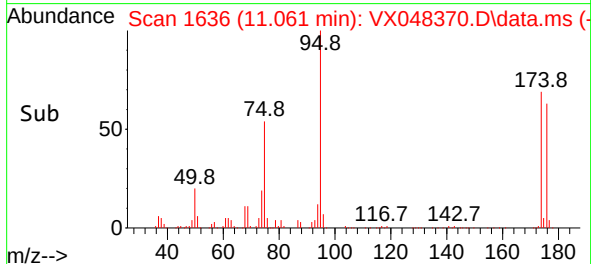
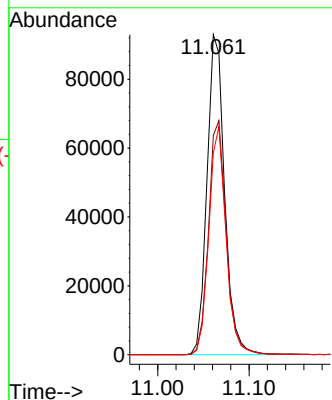
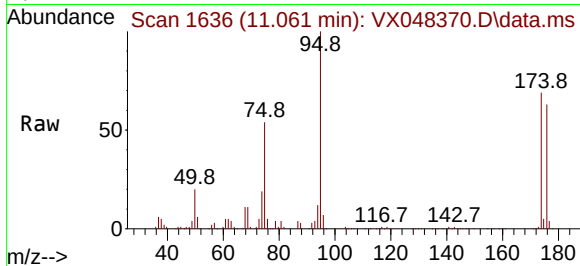




#62
4-Bromofluorobenzene
Concen: 55.034 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

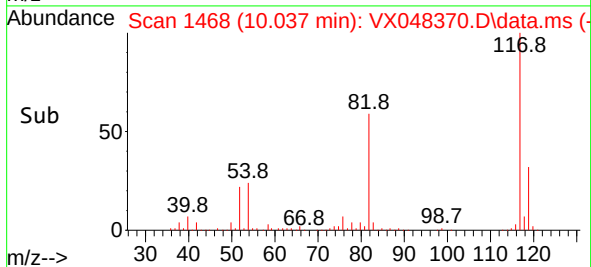
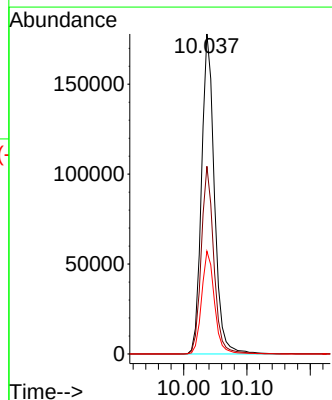
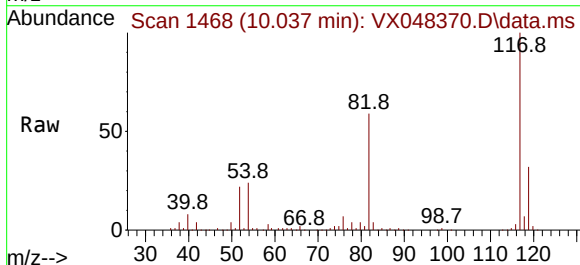
Instrument :
MSVOA_X
ClientSampleId :
SB-16DL

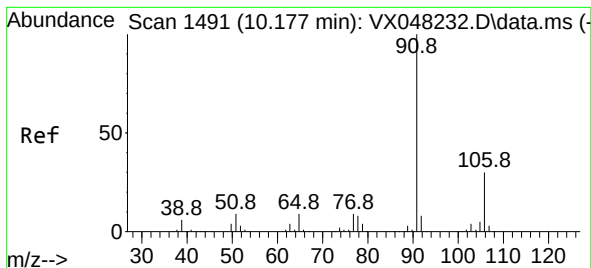
Tgt Ion: 95 Resp: 124052
Ion Ratio Lower Upper
95 100
174 73.7 0.0 147.8
176 69.6 0.0 142.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion: 117 Resp: 252681
Ion Ratio Lower Upper
117 100
82 58.7 46.5 69.7
119 32.1 25.9 38.9





#67

Ethyl Benzene

Concen: 1.755 ug/l

RT: 10.177 min Scan# 1491

Delta R.T. -0.000 min

Lab File: VX048370.D

Acq: 27 Oct 2025 14:42

Instrument :

MSVOA_X

ClientSampleId :

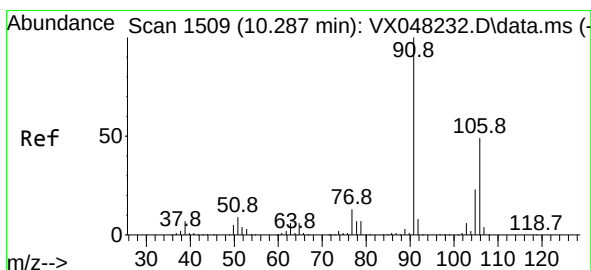
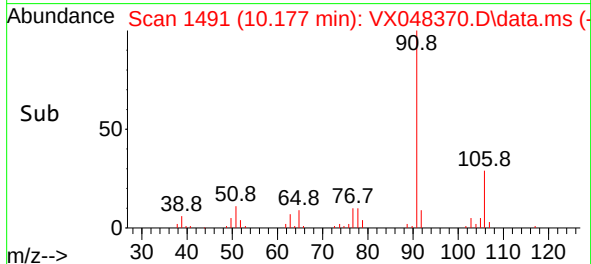
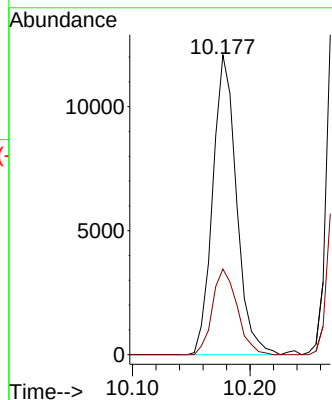
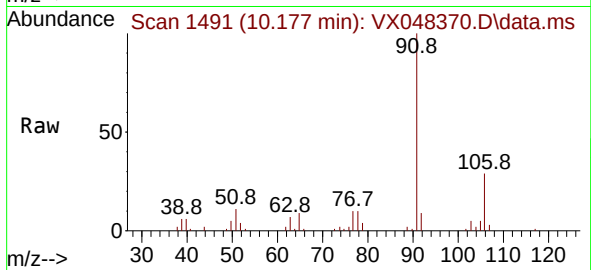
SB-16DL

Tgt Ion: 91 Resp: 16985

Ion Ratio Lower Upper

91 100

106 28.6 23.8 35.6



#68

m/p-Xylenes

Concen: 10.019 ug/l

RT: 10.287 min Scan# 1509

Delta R.T. -0.000 min

Lab File: VX048370.D

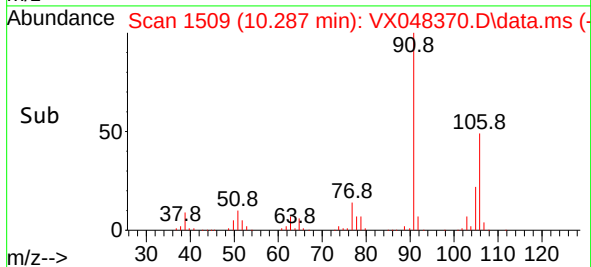
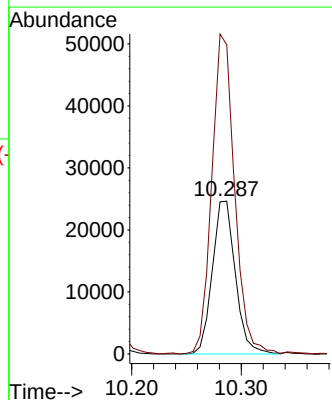
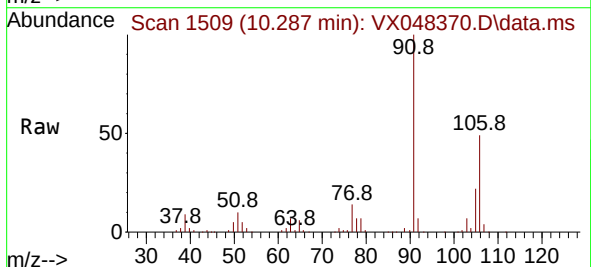
Acq: 27 Oct 2025 14:42

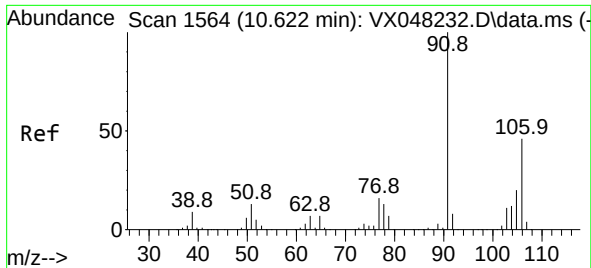
Tgt Ion:106 Resp: 36025

Ion Ratio Lower Upper

106 100

91 206.9 167.9 251.9

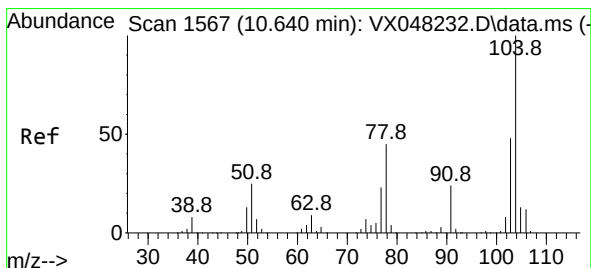
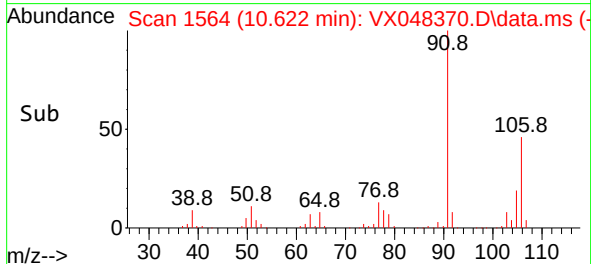
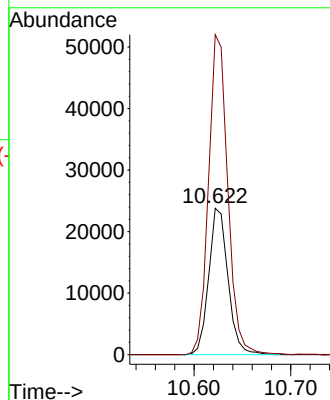
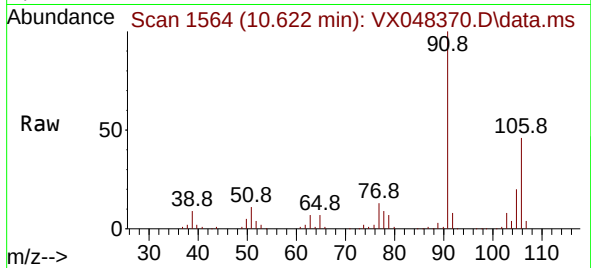




#69
o-Xylene
Concen: 9.506 ug/l
RT: 10.622 min Scan# 1564
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

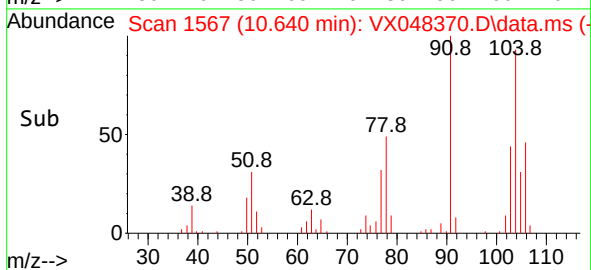
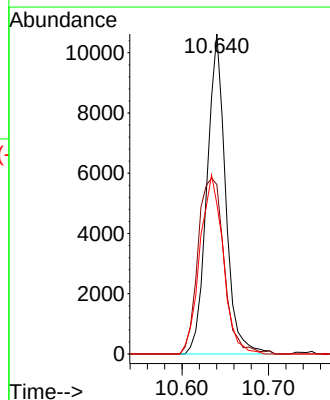
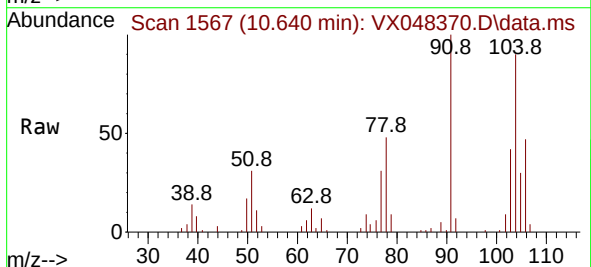
Instrument : MSVOA_X
ClientSampleId : SB-16DL

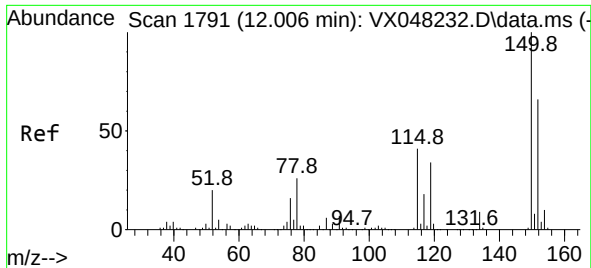
Tgt Ion:106 Resp: 32998
Ion Ratio Lower Upper
106 100
91 218.4 111.3 333.9



#70
Styrene
Concen: 2.684 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion:104 Resp: 15866
Ion Ratio Lower Upper
104 100
78 77.0 42.2 63.4#
103 69.8 43.0 64.4#

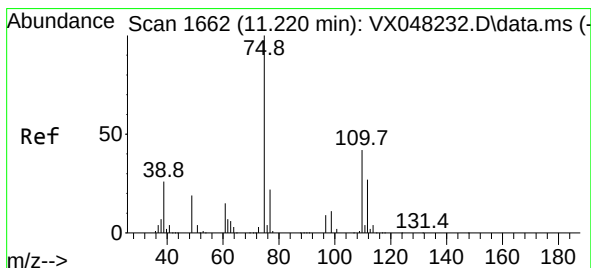
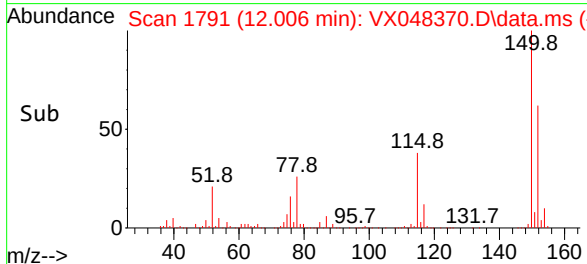
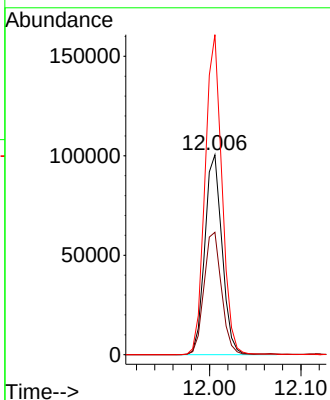
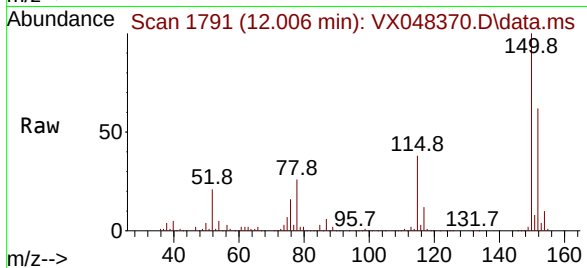




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

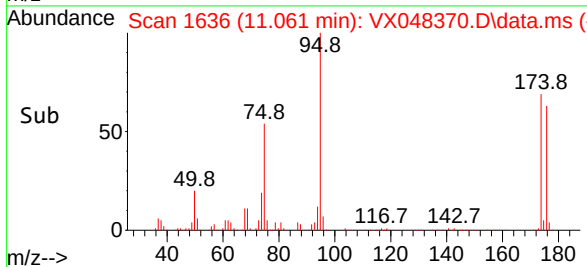
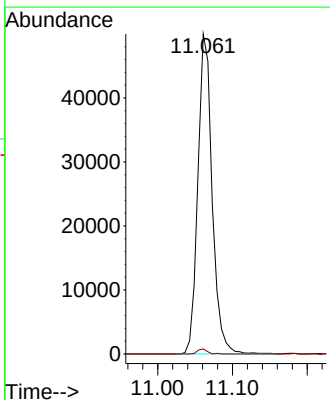
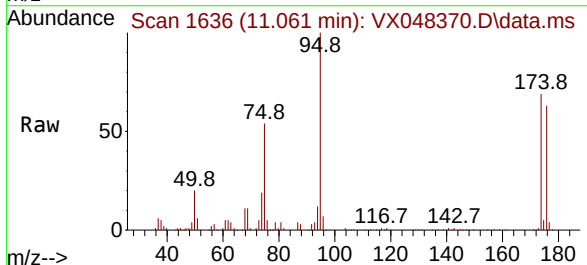
Instrument :
MSVOA_X
ClientSampleId :
SB-16DL

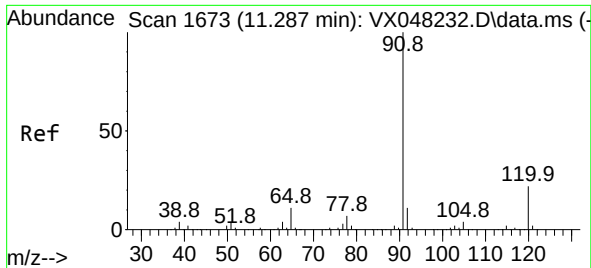
Tgt Ion:152 Resp: 131639
Ion Ratio Lower Upper
152 100
115 62.3 43.1 129.4
150 157.2 0.0 353.0



#76
1,2,3-Trichloropropane
Concen: 31.054 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion: 75 Resp: 66292
Ion Ratio Lower Upper
75 100
77 1.1 22.4 67.2#

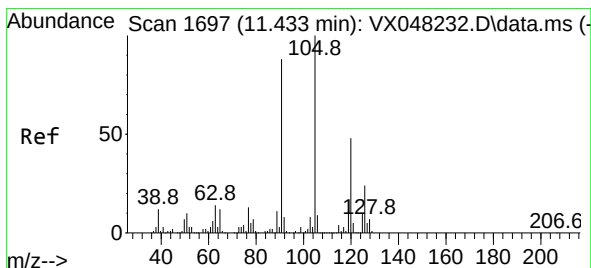
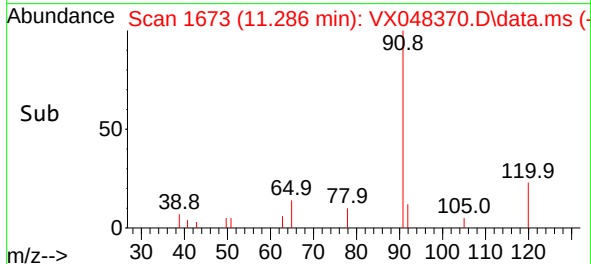
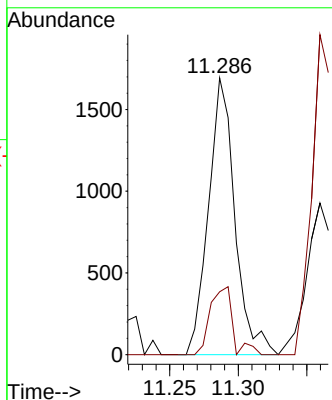
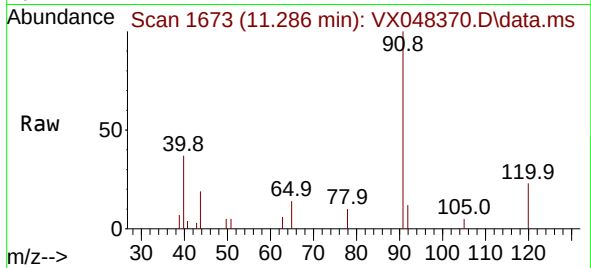




#78
n-propylbenzene
Concen: 0.204 ug/l
RT: 11.286 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

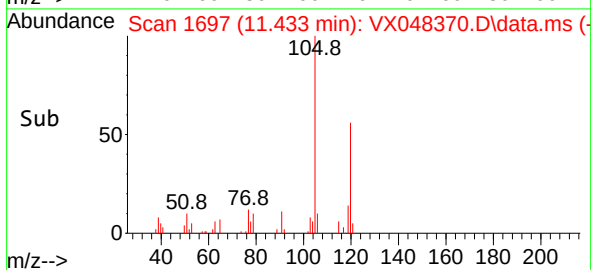
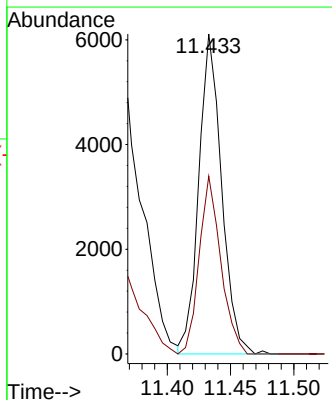
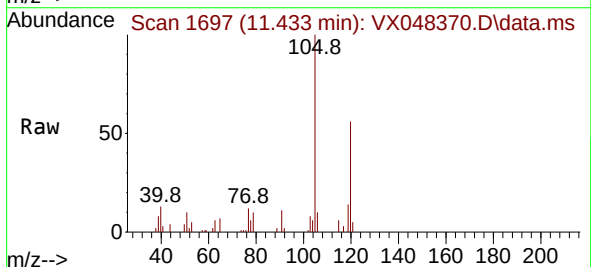
Instrument :
MSVOA_X
ClientSampleId :
SB-16DL

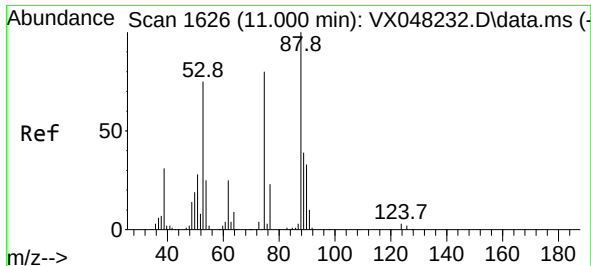
Tgt Ion: 91 Resp: 2266
Ion Ratio Lower Upper
91 100
120 21.0 11.1 33.1



#80
1,3,5-Trimethylbenzene
Concen: 0.963 ug/l
RT: 11.433 min Scan# 1697
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion: 105 Resp: 7664
Ion Ratio Lower Upper
105 100
120 52.8 24.0 72.0

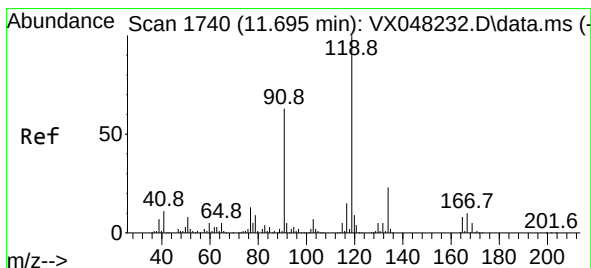
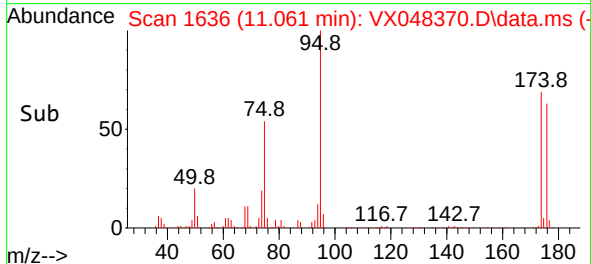
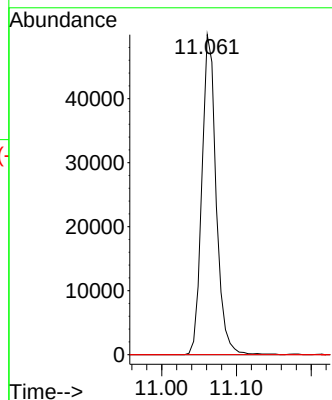
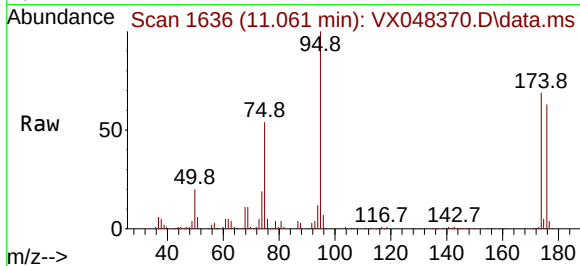




#81
trans-1,4-Dichloro-2-butene
Concen: 75.552 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

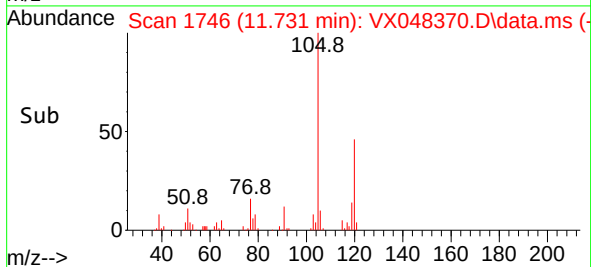
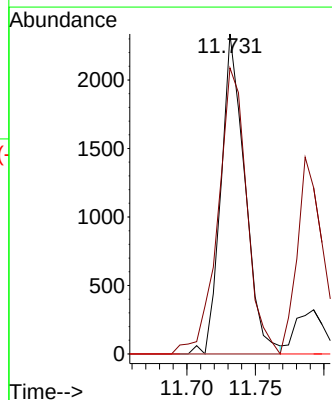
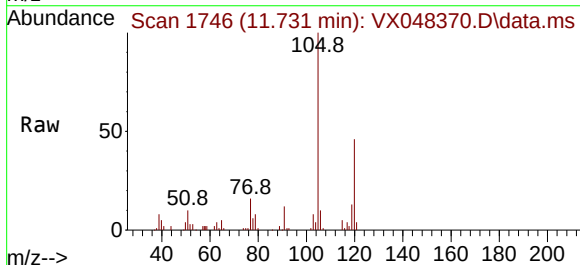
Instrument :
MSVOA_X
ClientSampleId :
SB-16DL

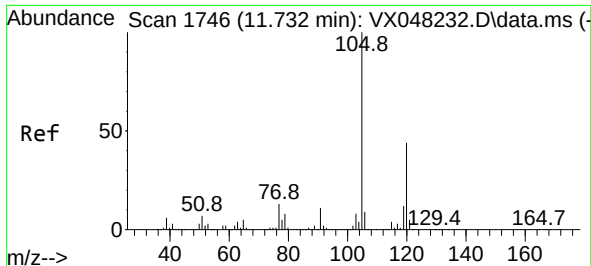
Tgt Ion: 75 Resp: 66292
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#



#83
tert-Butylbenzene
Concen: 0.347 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. 0.036 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion: 119 Resp: 2833
Ion Ratio Lower Upper
119 100
91 107.6 30.3 91.0#
134 0.0 11.4 34.2#

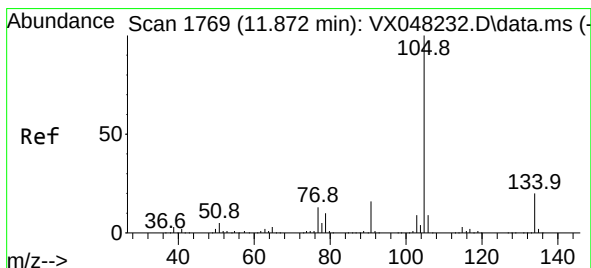
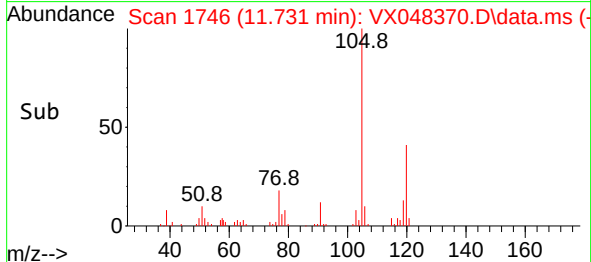
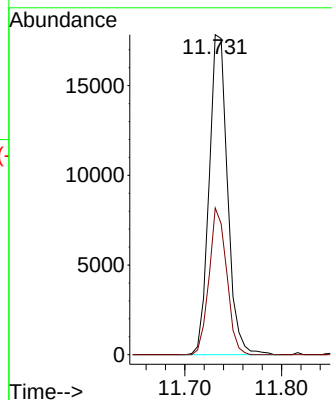
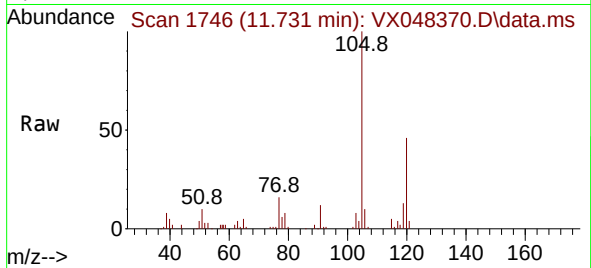




#84
1,2,4-Trimethylbenzene
Concen: 2.978 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

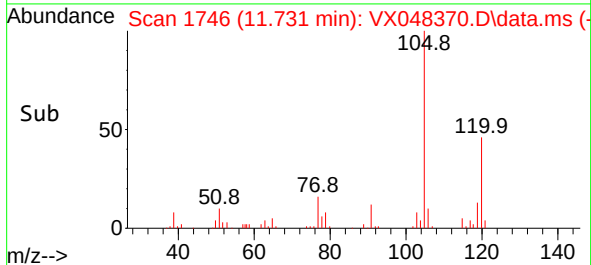
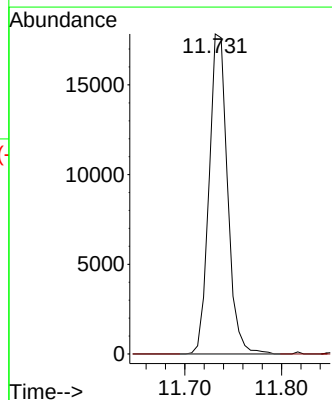
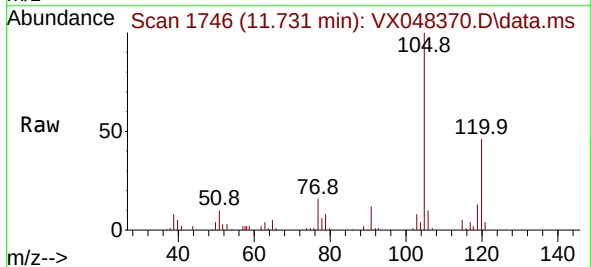
Instrument :
MSVOA_X
ClientSampleId :
SB-16DL

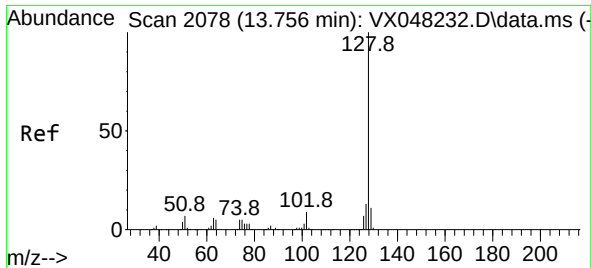
Tgt Ion:105 Resp: 23651
Ion Ratio Lower Upper
105 100
120 43.6 22.1 66.5



#85
sec-Butylbenzene
Concen: 2.405 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.140 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Tgt Ion:105 Resp: 23651
Ion Ratio Lower Upper
105 100
134 0.0 10.1 30.1#





#95
Naphthalene
Concen: 17.529 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX048370.D
Acq: 27 Oct 2025 14:42

Instrument :
MSVOA_X
ClientSampleId :
SB-16DL

Tgt Ion:128 Resp: 134018
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.4
129 10.7 8.6 12.8

