

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
 Data File : VX048374.D
 Acq On : 27 Oct 2025 16:04
 Operator : JC/MD
 Sample : Q3446-07 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-20DL

Quant Time: Oct 28 01:55:58 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)

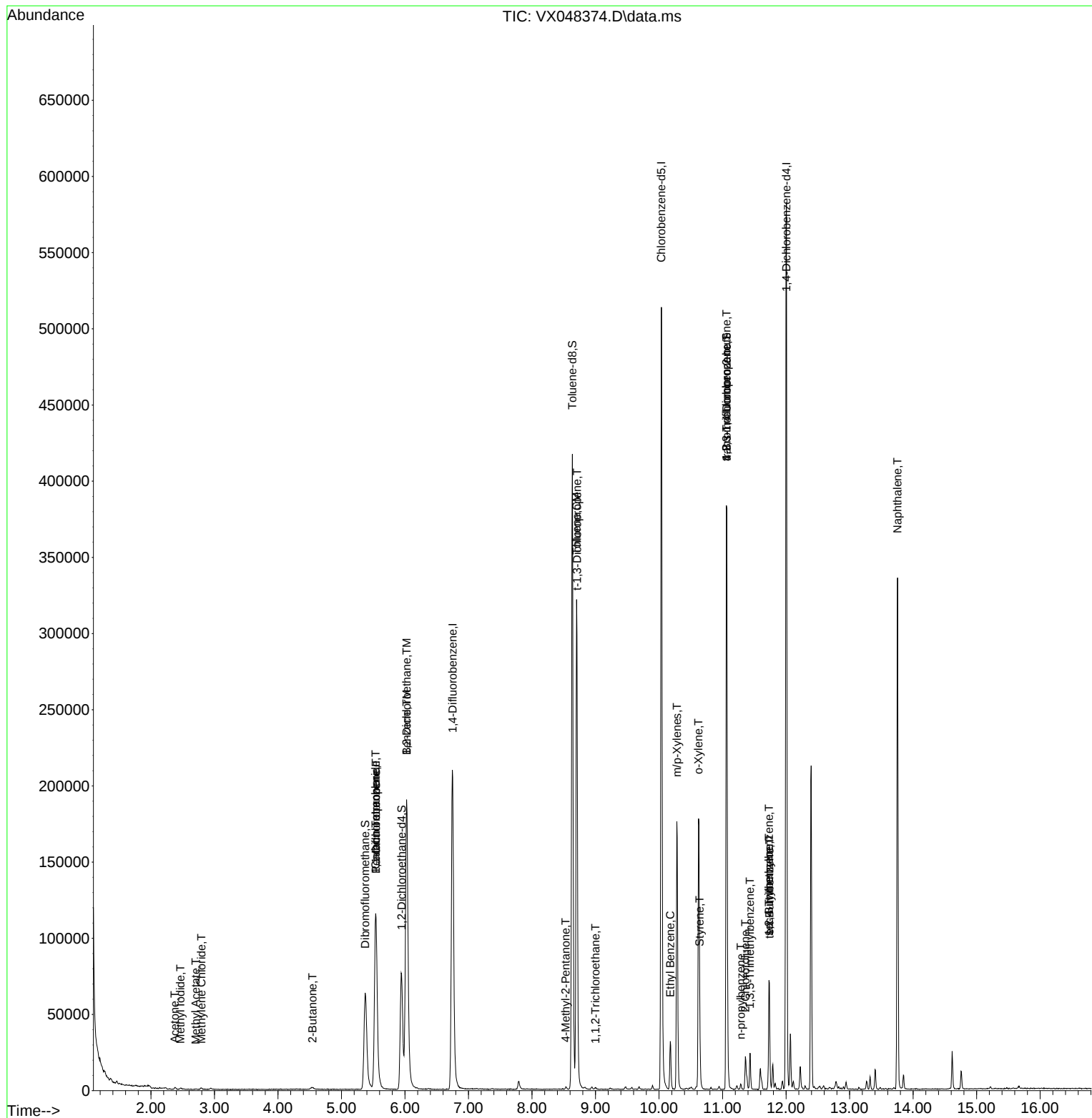
Internal Standards						
1) Pentafluorobenzene	5.544	168	116908	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	230050	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	237467	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	122693	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	86155	52.561	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 105.120%	
35) Dibromofluoromethane	5.373	113	62289	39.661	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 79.320%	
50) Toluene-d8	8.635	98	252578	45.882	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 91.760%#	
62) 4-Bromofluorobenzene	11.061	95	111995	53.478	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 106.960%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.465	142	1132	0.714	ug/l #	89
16) Acetone	2.373	43	1442	2.564	ug/l #	43
18) Methyl Acetate	2.703	43	383	0.326	ug/l #	54
20) Methylene Chloride	2.794	84	478	0.349	ug/l #	87
25) 2-Butanone	4.544	43	193	0.271	ug/l #	50
36) 1,1-Dichloropropene	5.544	75	9965	4.464	ug/l #	51
38) Carbon Tetrachloride	5.538	117	12700	4.611	ug/l #	15
40) Benzene	6.025	78	242924	37.483	ug/l	99
42) 1,2-Dichloroethane	6.025	62	2376	0.994	ug/l #	76
51) 4-Methyl-2-Pentanone	8.531	43	944	0.539	ug/l #	38
52) Toluene	8.702	92	125574	30.500	ug/l	100
53) t-1,3-Dichloropropene	8.708	75	1413	0.566	ug/l #	1
55) 1,1,2-Trichloroethane	9.000	97	761	0.497	ug/l #	14
67) Ethyl Benzene	10.177	91	19215	2.113	ug/l	98
68) m/p-Xylenes	10.281	106	41819	12.375	ug/l	99
69) o-Xylene	10.622	106	38932	11.934	ug/l	98
70) Styrene	10.640	104	13449	2.421	ug/l #	60
76) 1,2,3-Trichloropropane	11.061	75	60382	30.348	ug/l #	34
78) n-propylbenzene	11.287	91	2645	0.255	ug/l	94
79) 2-Chlorotoluene	11.360	91	1908	0.303	ug/l #	42
80) 1,3,5-Trimethylbenzene	11.433	105	10038	1.354	ug/l	95
81) trans-1,4-Dichloro-2-b...	11.061	75	60382	73.834	ug/l #	10
83) tert-Butylbenzene	11.738	119	3773	0.495	ug/l #	45
84) 1,2,4-Trimethylbenzene	11.732	105	32701	4.418	ug/l	98
85) sec-Butylbenzene	11.732	105	32701	3.567	ug/l #	56
95) Naphthalene	13.756	128	194126	27.243	ug/l	99

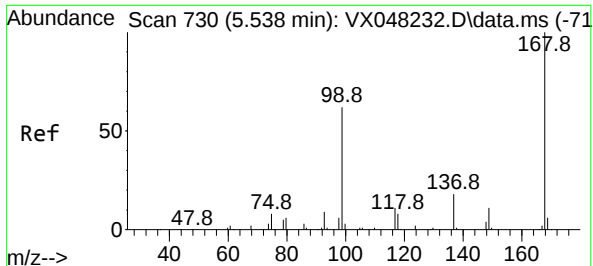
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

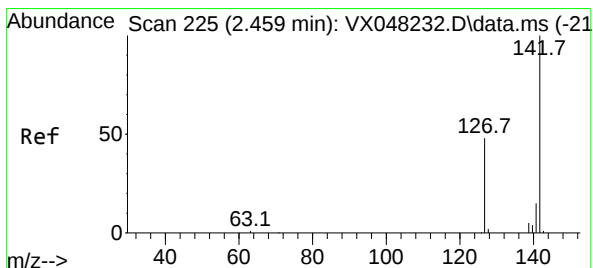
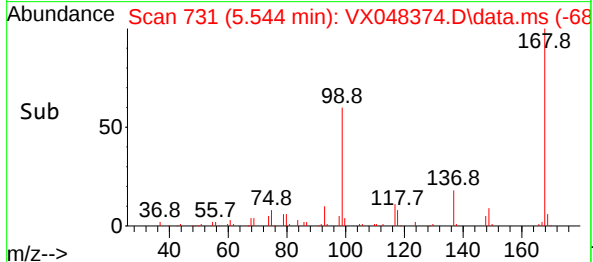
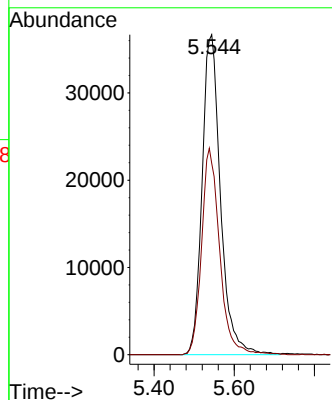
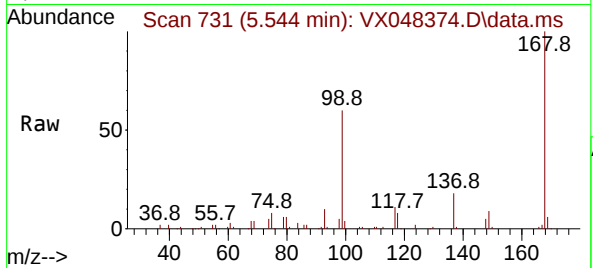




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

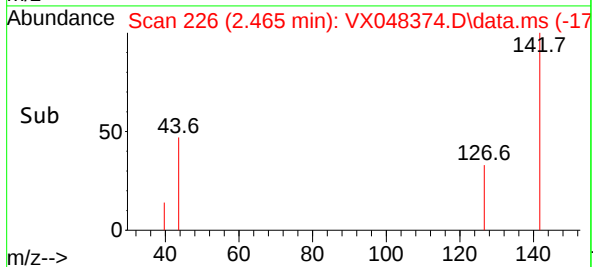
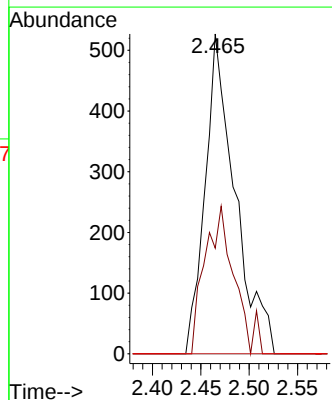
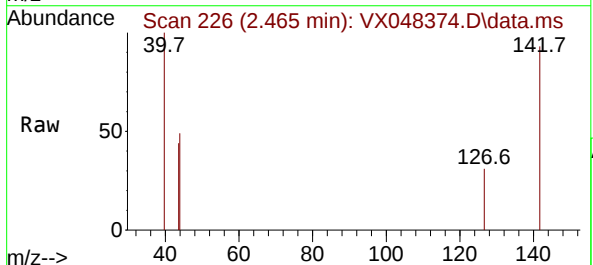
Instrument :
MSVOA_X
ClientSampleId :
SB-20DL

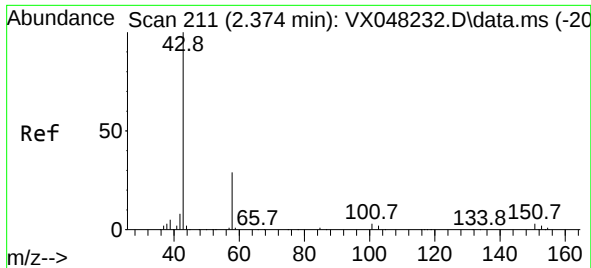
Tgt Ion:168 Resp: 116908
Ion Ratio Lower Upper
168 100
99 59.8 46.4 69.6



#10
Methyl Iodide
Concen: 0.714 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.006 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

Tgt Ion:142 Resp: 1132
Ion Ratio Lower Upper
142 100
127 45.6 38.5 57.7
141 0.0 11.6 17.4#

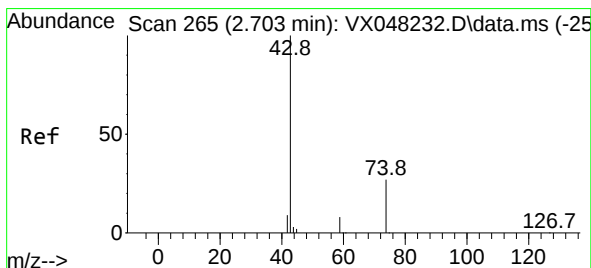
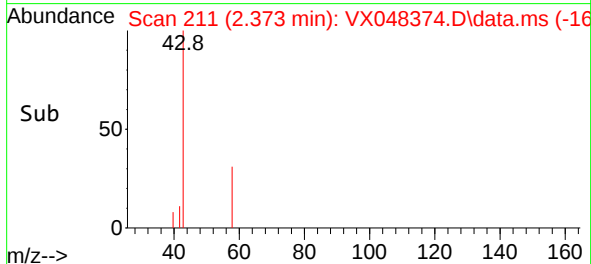
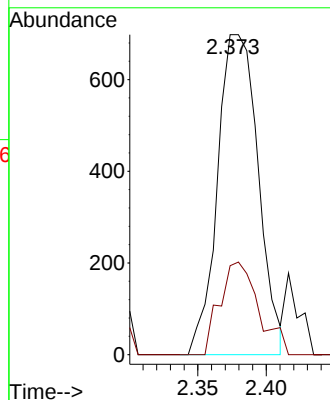
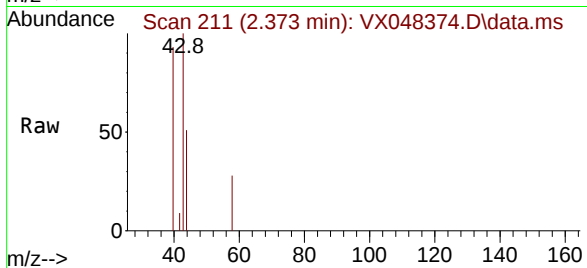




#16
Acetone
Concen: 2.564 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

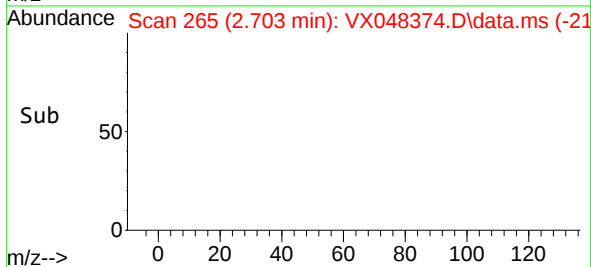
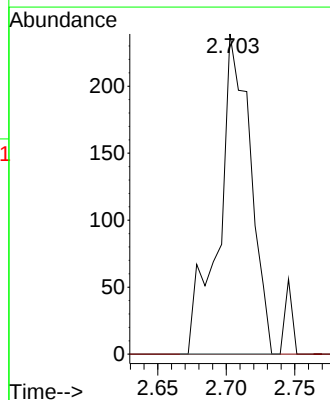
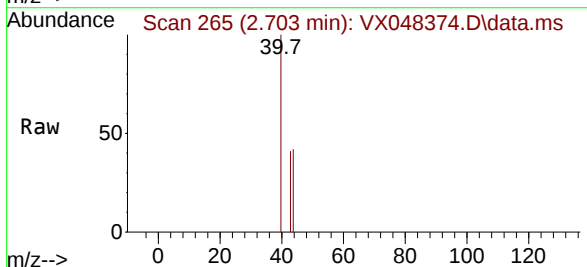
Instrument :
MSVOA_X
ClientSampleId :
SB-20DL

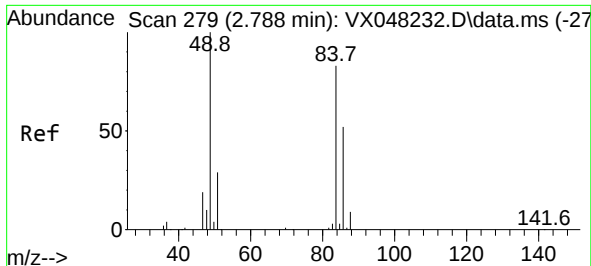
Tgt Ion: 43 Resp: 1442
Ion Ratio Lower Upper
43 100
58 59.7 23.4 35.2#



#18
Methyl Acetate
Concen: 0.326 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

Tgt Ion: 43 Resp: 383
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#

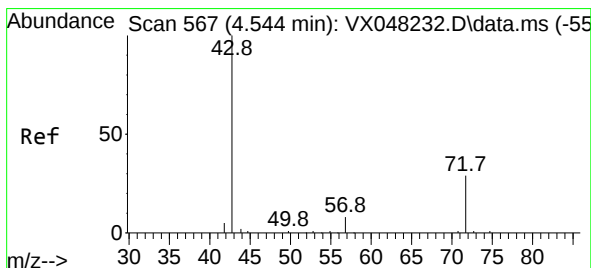
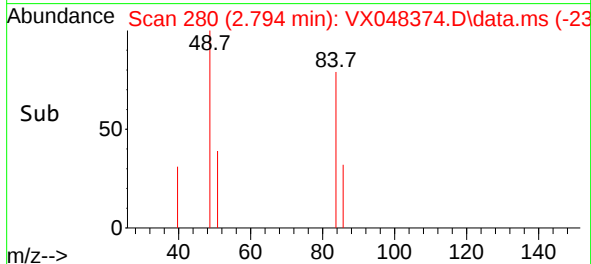
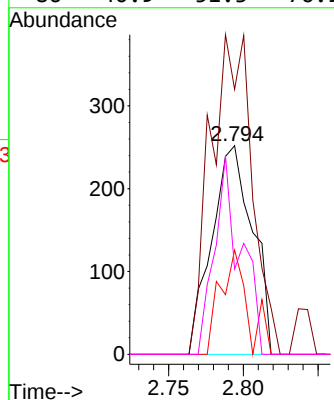
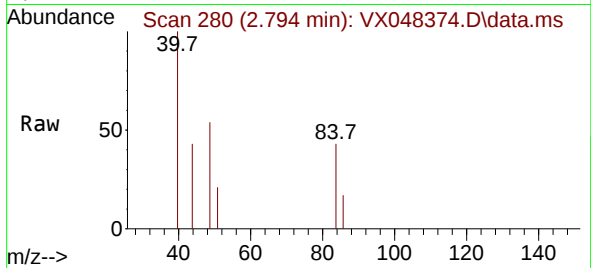




#20
Methylene Chloride
Concen: 0.349 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

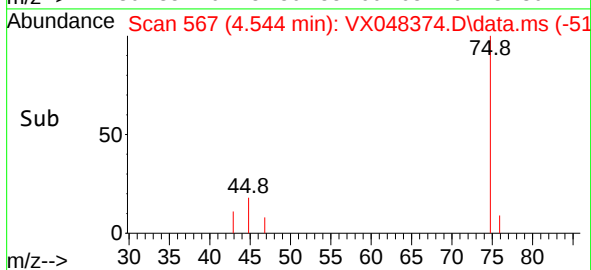
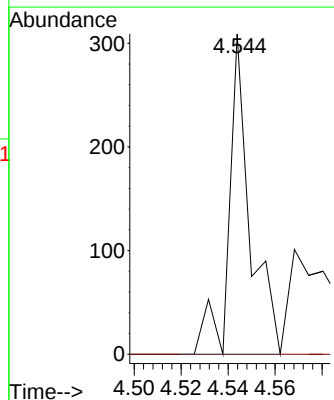
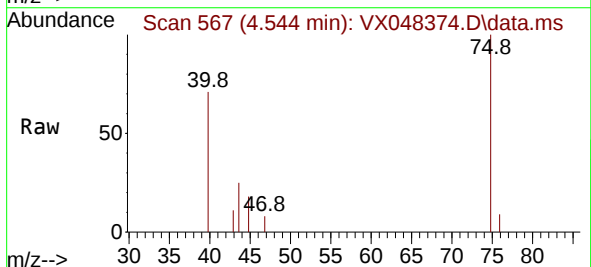
Instrument :
MSVOA_X
ClientSampleId :
SB-20DL

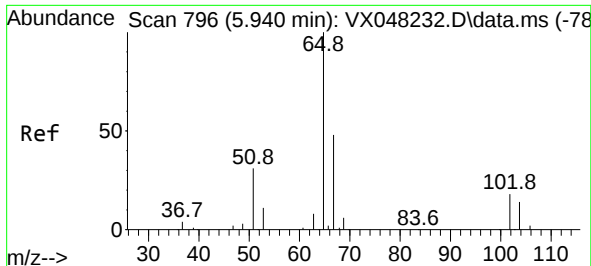
Tgt Ion: 84 Resp: 478
Ion Ratio Lower Upper
84 100
49 127.0 104.1 156.1
51 50.0 31.3 46.9#
86 40.9 51.3 76.9#



#25
2-Butanone
Concen: 0.271 ug/l
RT: 4.544 min Scan# 567
Delta R.T. 0.006 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

Tgt Ion: 43 Resp: 193
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#

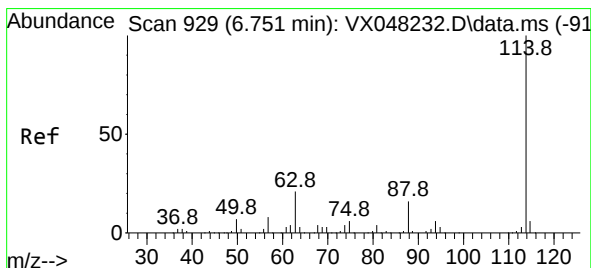
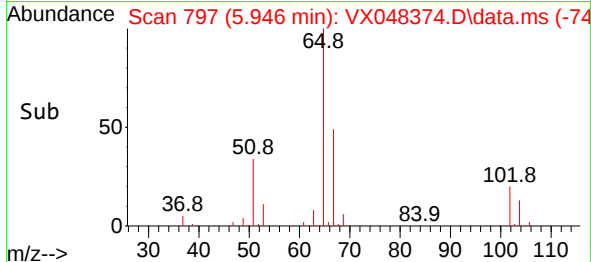
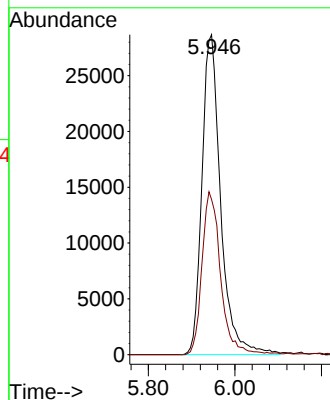
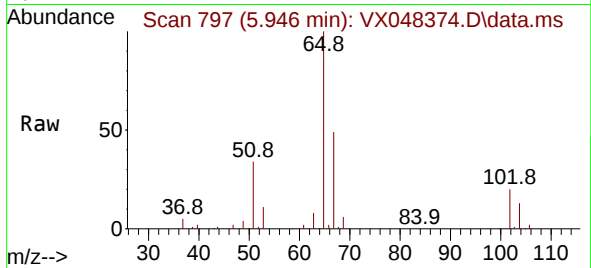




#33
 1,2-Dichloroethane-d4
 Concen: 52.561 ug/l
 RT: 5.946 min Scan# 796
 Delta R.T. 0.006 min
 Lab File: VX048374.D
 Acq: 27 Oct 2025 16:04

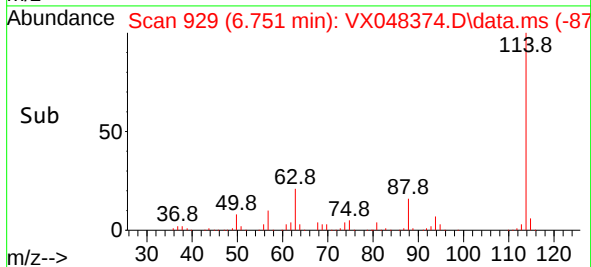
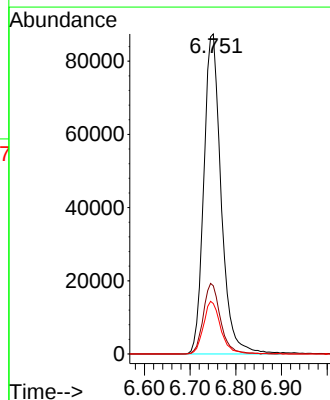
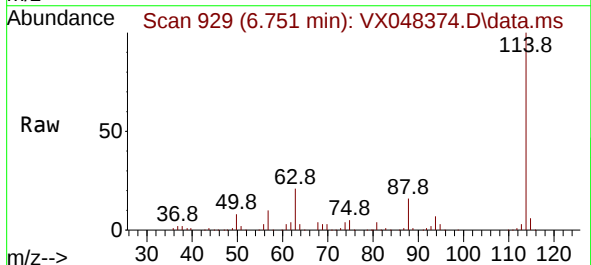
Instrument :
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 ClientSampleId :
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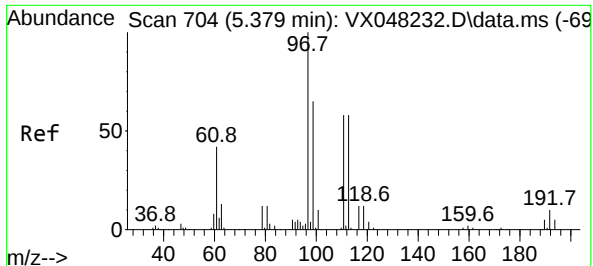
Tgt Ion: 65 Resp: 86155
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.751 min Scan# 929
 Delta R.T. 0.006 min
 Lab File: VX048374.D
 Acq: 27 Oct 2025 16:04

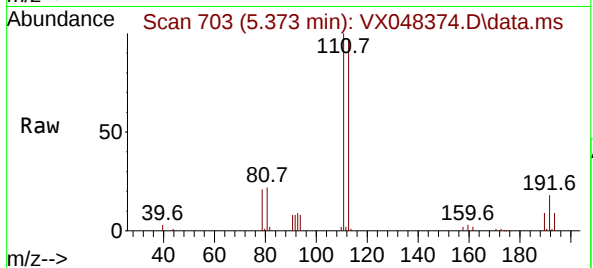
Tgt Ion: 114 Resp: 230050
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 43.2
 88 15.8 0.0 33.6



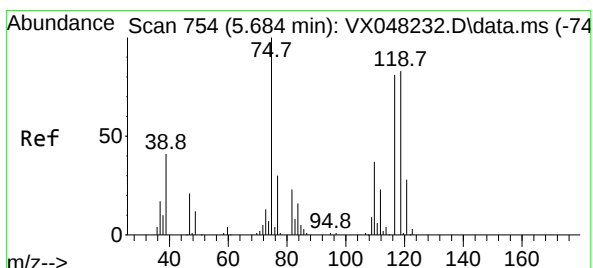
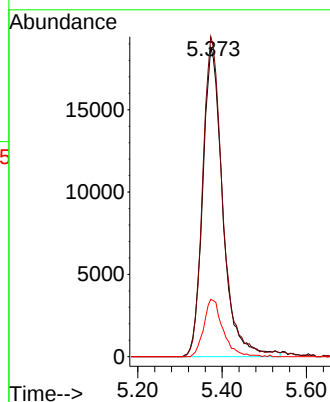
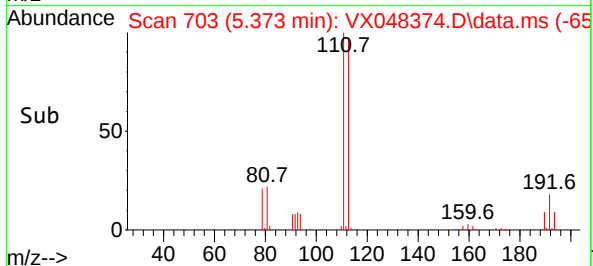


#35
Dibromofluoromethane
Concen: 39.661 ug/l
RT: 5.373 min Scan# 704
Delta R.T. -0.000 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

Instrument :
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ClientSampleId :
SB-20DL

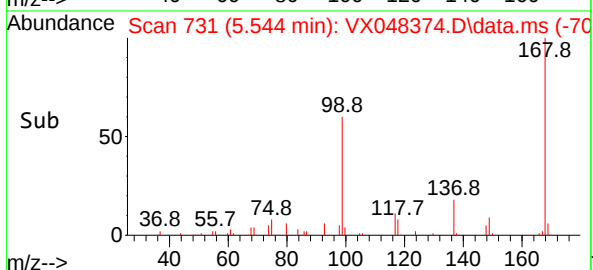
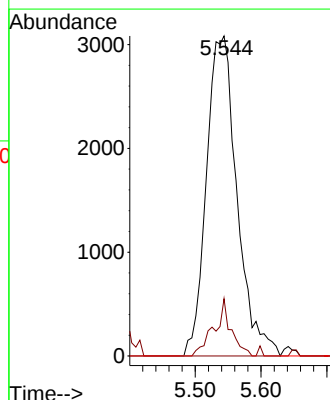
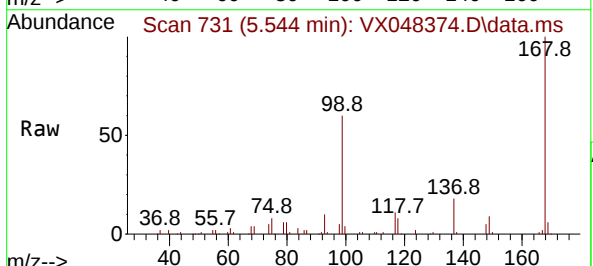


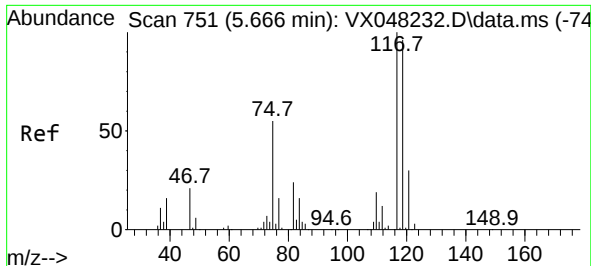
Tgt Ion:113 Resp: 62289
Ion Ratio Lower Upper
113 100
111 102.2 82.2 123.4
192 17.7 15.1 22.7



#36
1,1-Dichloropropene
Concen: 4.464 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

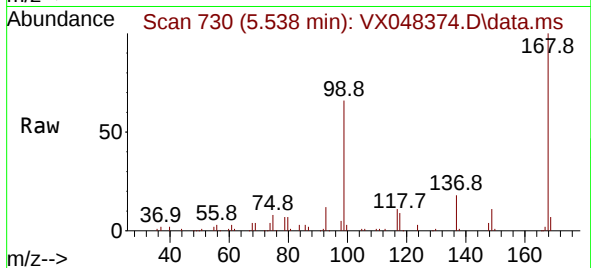
Tgt Ion: 75 Resp: 9965
Ion Ratio Lower Upper
75 100
110 10.0 17.7 53.1#
77 0.0 24.3 36.5#



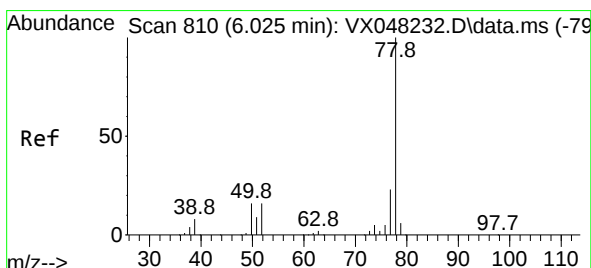
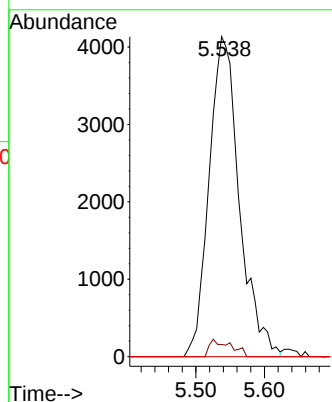
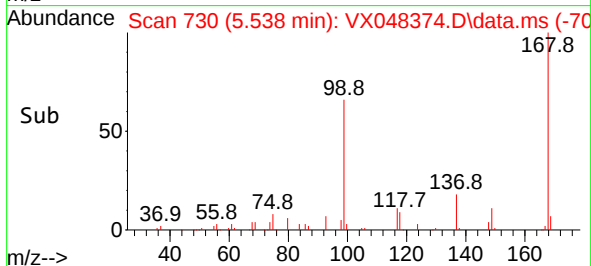


#38
Carbon Tetrachloride
Concen: 4.611 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

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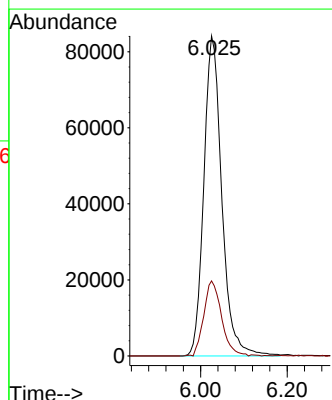
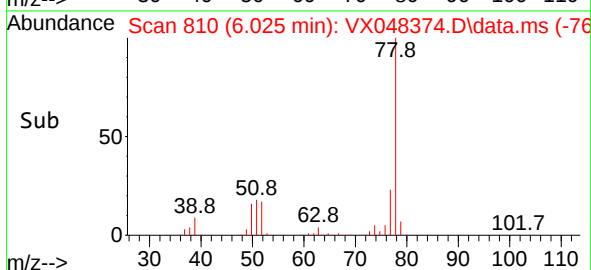
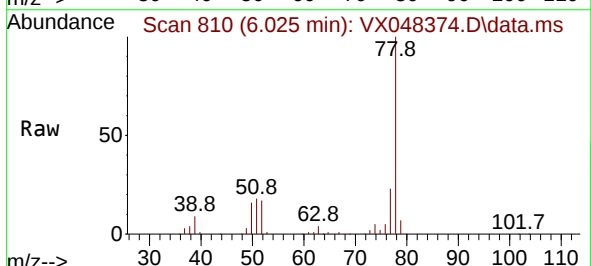


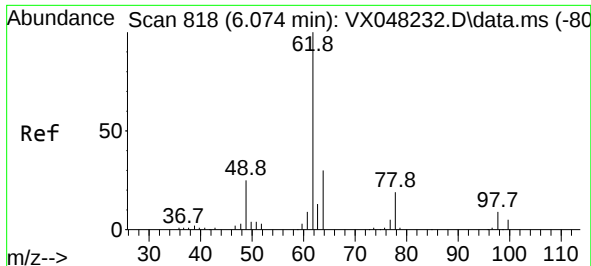
Tgt Ion:117 Resp: 12700
Ion Ratio Lower Upper
117 100
119 3.8 77.2 115.8#
121 0.0 24.8 37.2#



#40
Benzene
Concen: 37.483 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

Tgt Ion: 78 Resp: 242924
Ion Ratio Lower Upper
78 100
77 23.5 19.3 28.9





#42

1,2-Dichloroethane

Concen: 0.994 ug/l

RT: 6.025 min Scan# 81

Delta R.T. -0.043 min

Lab File: VX048374.D

Acq: 27 Oct 2025 16:04

Instrument :

MSVOA_X

ClientSampleId :

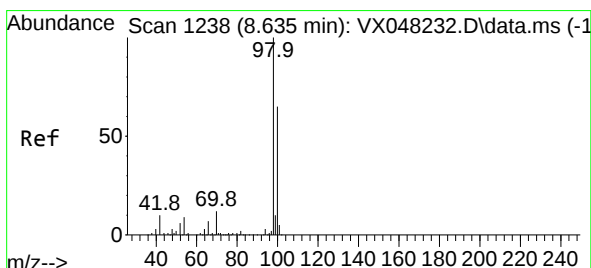
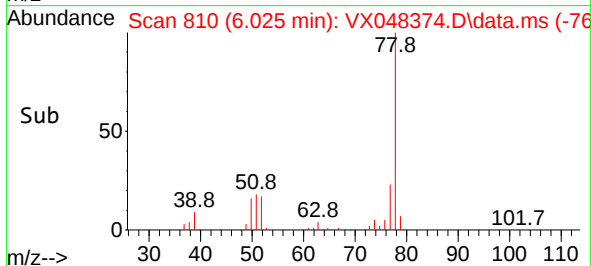
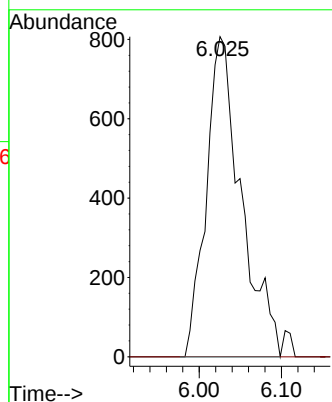
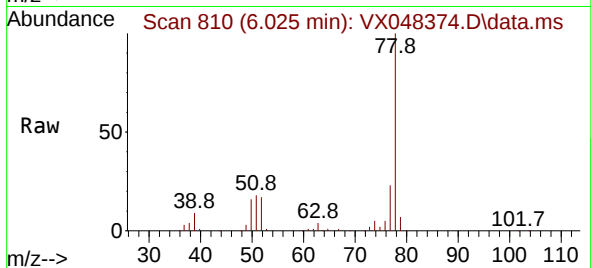
SB-20DL

Tgt Ion: 62 Resp: 2376

Ion Ratio Lower Upper

62 100

98 0.0 0.0 17.2



#50

Toluene-d8

Concen: 45.882 ug/l

RT: 8.635 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048374.D

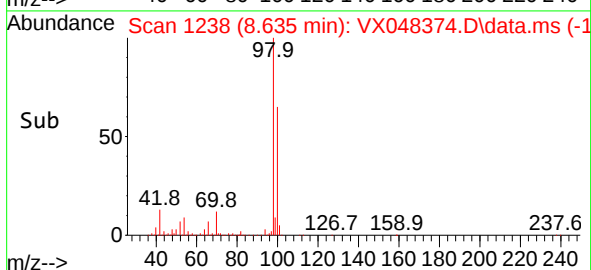
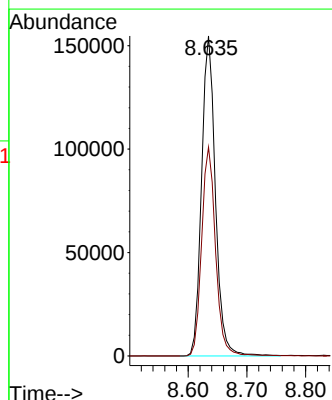
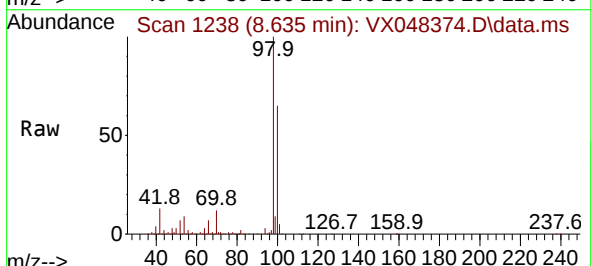
Acq: 27 Oct 2025 16:04

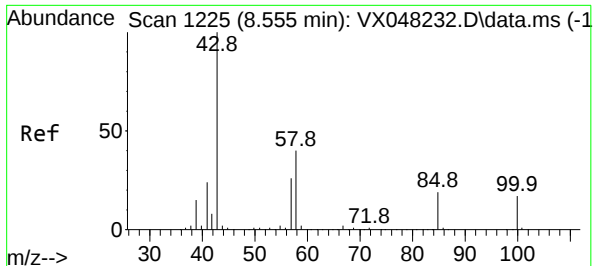
Tgt Ion: 98 Resp: 252578

Ion Ratio Lower Upper

98 100

100 65.8 53.0 79.4





#51

4-Methyl-2-Pentanone

Concen: 0.539 ug/l

RT: 8.531 min Scan# 1221

Delta R.T. -0.024 min

Lab File: VX048374.D

Acq: 27 Oct 2025 16:04

Instrument :

MSVOA_X

ClientSampleId :

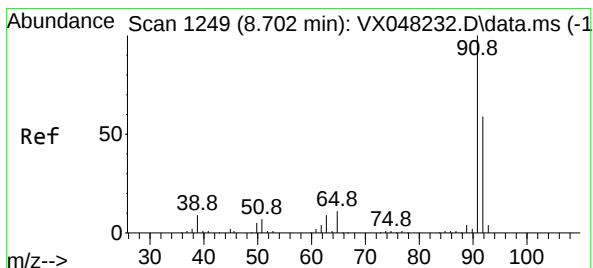
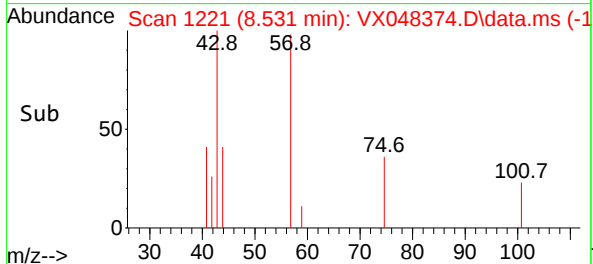
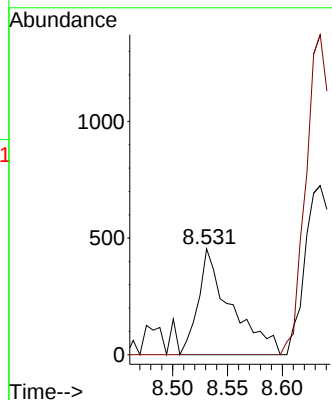
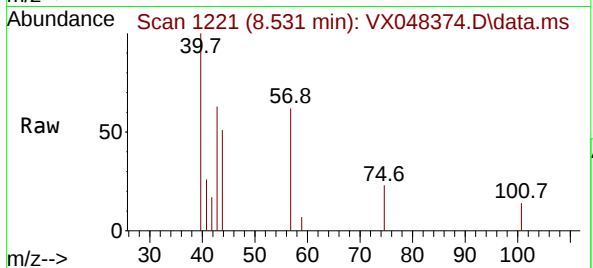
SB-20DL

Tgt Ion: 43 Resp: 944

Ion Ratio Lower Upper

43 100

58 0.0 29.5 44.3#



#52

Toluene

Concen: 30.500 ug/l

RT: 8.702 min Scan# 1249

Delta R.T. -0.000 min

Lab File: VX048374.D

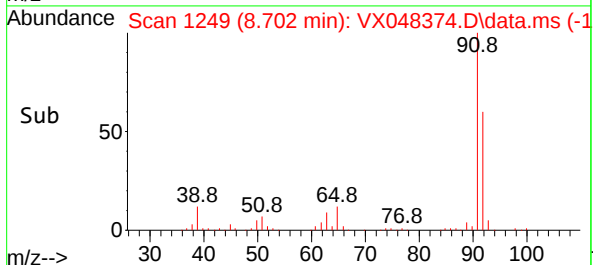
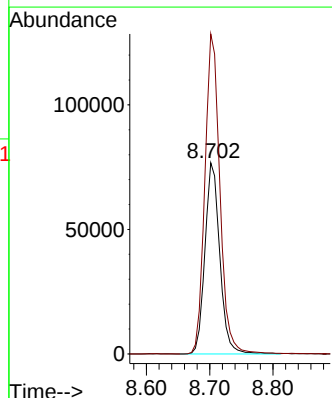
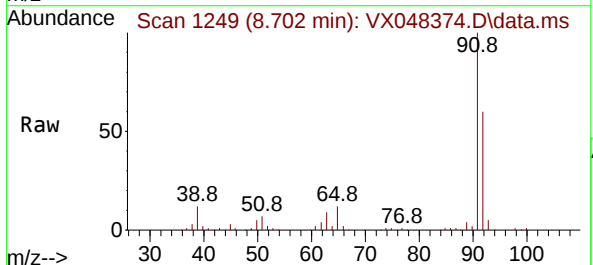
Acq: 27 Oct 2025 16:04

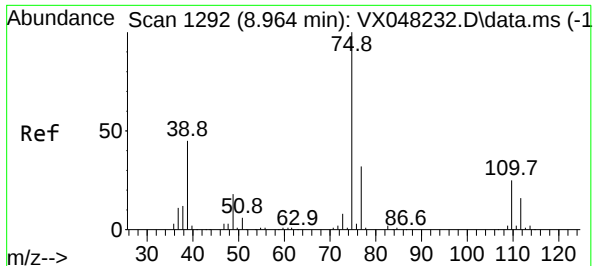
Tgt Ion: 92 Resp: 125574

Ion Ratio Lower Upper

92 100

91 169.6 136.1 204.1





#53

t-1,3-Dichloropropene

Concen: 0.566 ug/l

RT: 8.708 min Scan# 11

Delta R.T. -0.256 min

Lab File: VX048374.D

Acq: 27 Oct 2025 16:04

Instrument :

MSVOA_X

ClientSampleId :

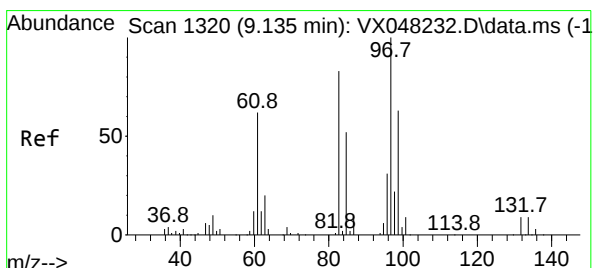
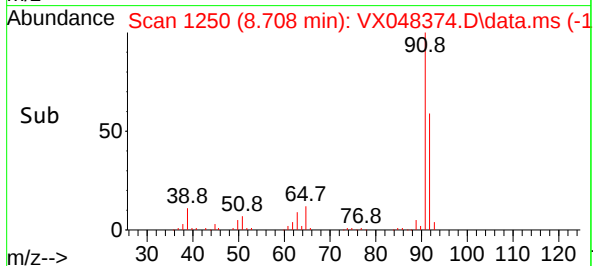
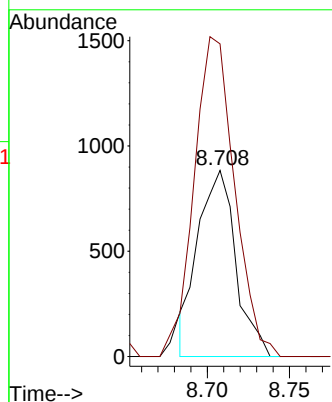
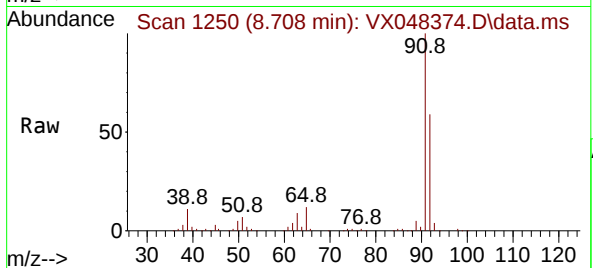
SB-20DL

Tgt Ion: 75 Resp: 1413

Ion Ratio Lower Upper

75 100

77 168.0 25.0 37.6#



#55

1,1,2-Trichloroethane

Concen: 0.497 ug/l

RT: 9.000 min Scan# 1298

Delta R.T. -0.134 min

Lab File: VX048374.D

Acq: 27 Oct 2025 16:04

Tgt Ion: 97 Resp: 761

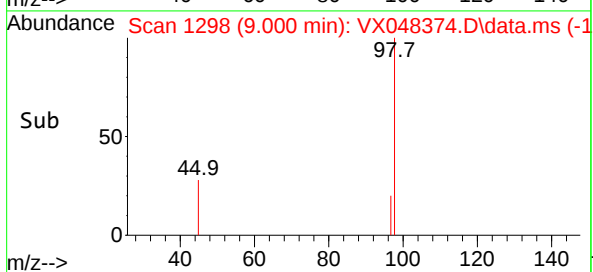
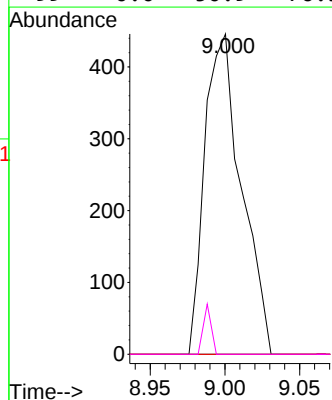
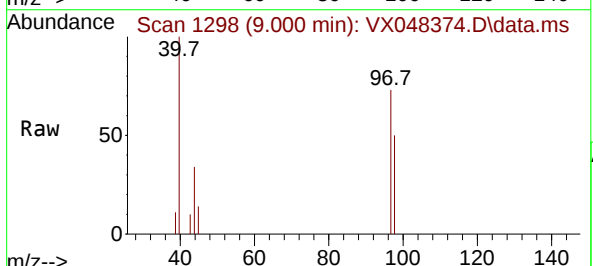
Ion Ratio Lower Upper

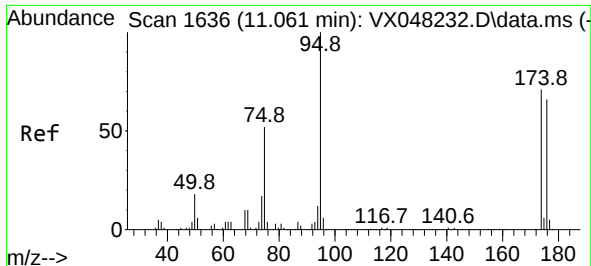
97 100

83 0.0 70.6 105.8#

85 0.0 45.0 67.6#

99 0.0 50.9 76.3#

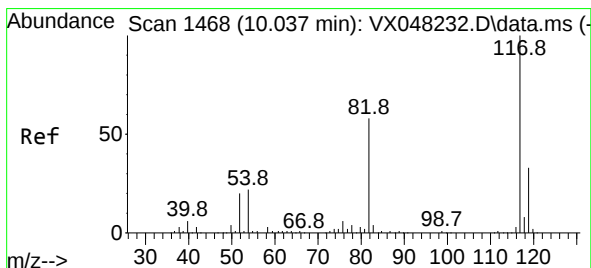
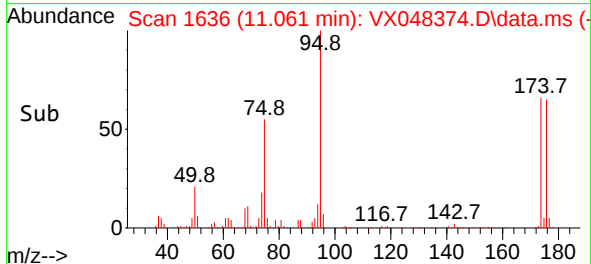
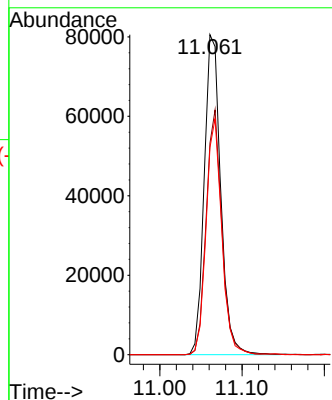
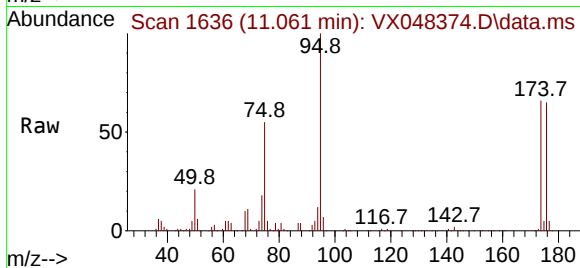




#62
4-Bromofluorobenzene
Concen: 53.478 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

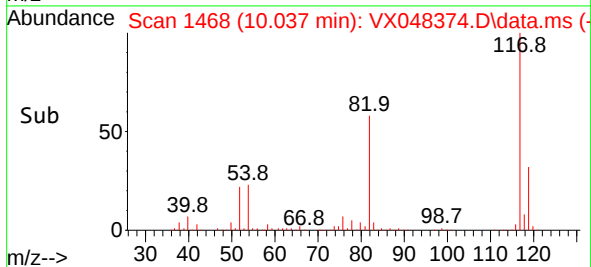
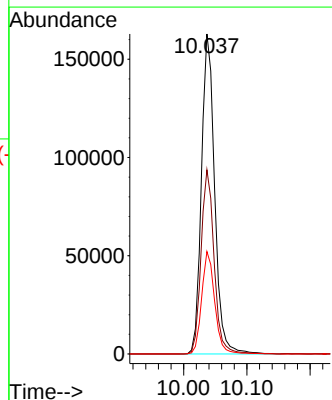
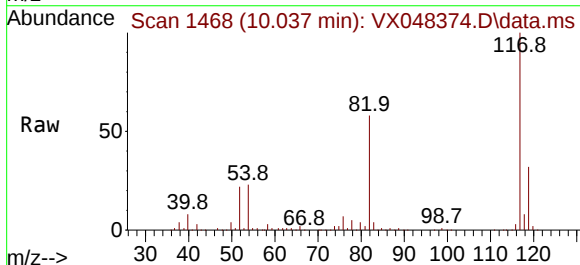
Instrument :
MSVOA_X
ClientSampleId :
SB-20DL

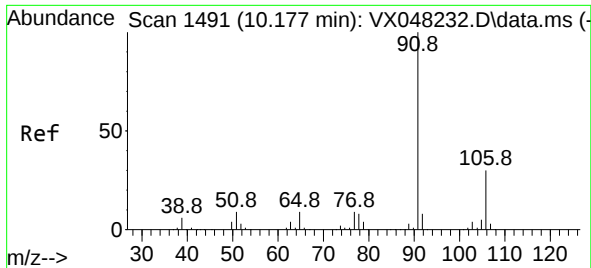
Tgt Ion: 95 Resp: 111995
Ion Ratio Lower Upper
95 100
174 73.4 0.0 147.8
176 70.1 0.0 142.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

Tgt Ion: 117 Resp: 237467
Ion Ratio Lower Upper
117 100
82 57.6 46.5 69.7
119 32.0 25.9 38.9

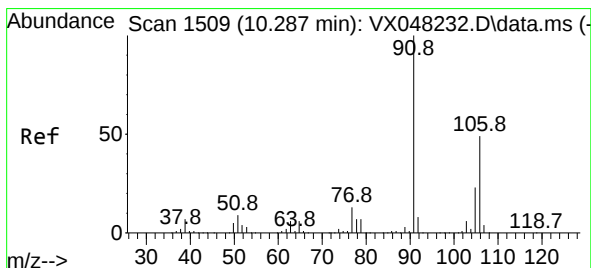
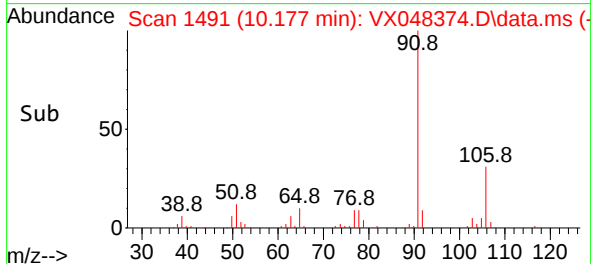
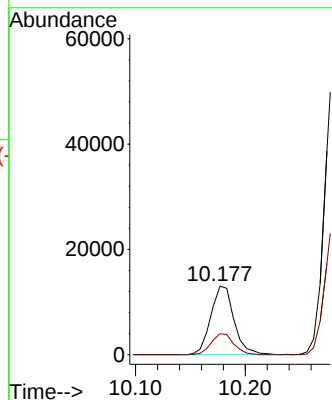
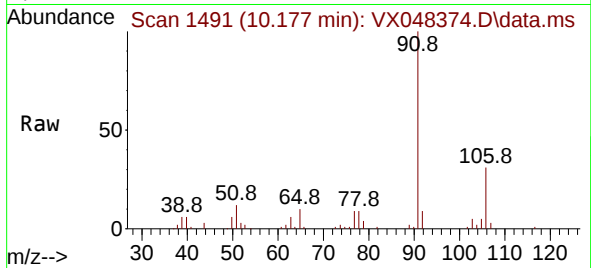




#67
Ethyl Benzene
Concen: 2.113 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

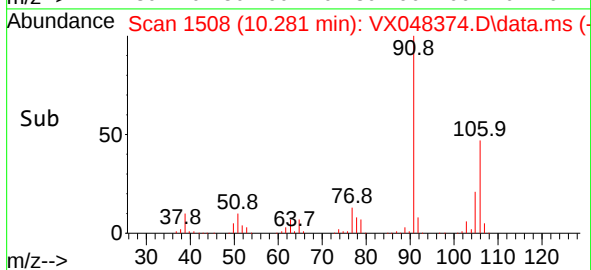
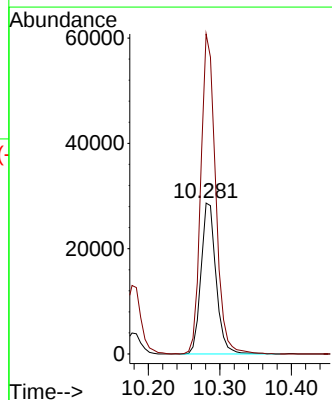
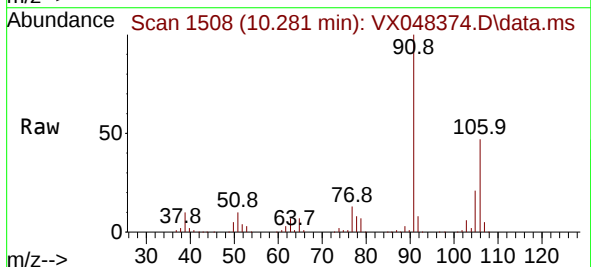
Instrument :
MSVOA_X
ClientSampleId :
SB-20DL

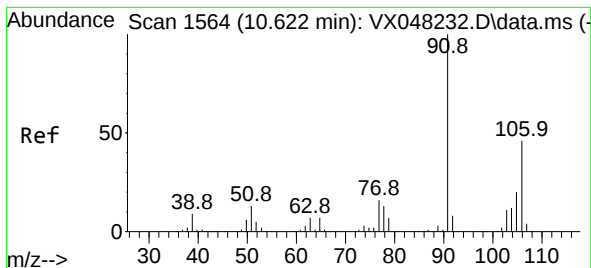
Tgt Ion: 91 Resp: 19215
Ion Ratio Lower Upper
91 100
106 30.5 23.8 35.6



#68
m/p-Xylenes
Concen: 12.375 ug/l
RT: 10.281 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

Tgt Ion:106 Resp: 41819
Ion Ratio Lower Upper
106 100
91 209.0 167.9 251.9





#69

o-Xylene

Concen: 11.934 ug/l

RT: 10.622 min Scan# 1564

Delta R.T. -0.000 min

Lab File: VX048374.D

Acq: 27 Oct 2025 16:04

Instrument :

MSVOA_X

ClientSampleId :

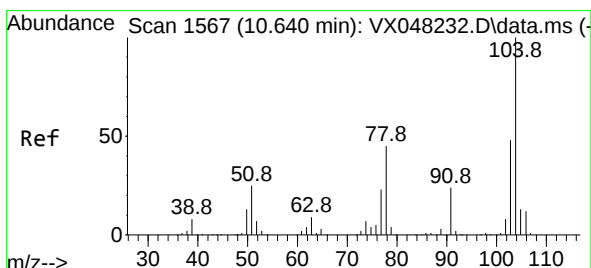
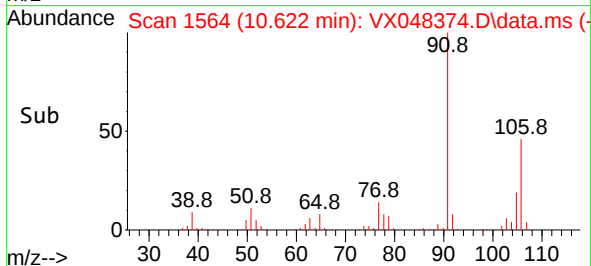
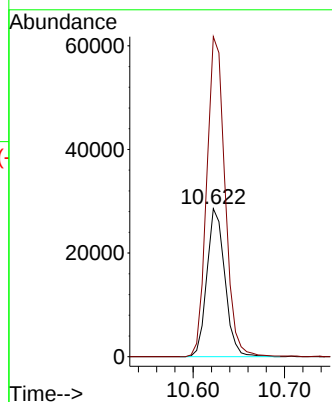
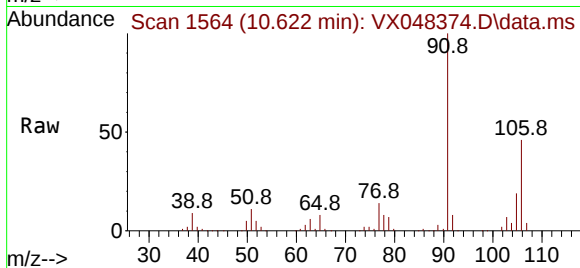
SB-20DL

Tgt Ion:106 Resp: 38932

Ion Ratio Lower Upper

106 100

91 220.1 111.3 333.9



#70

Styrene

Concen: 2.421 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX048374.D

Acq: 27 Oct 2025 16:04

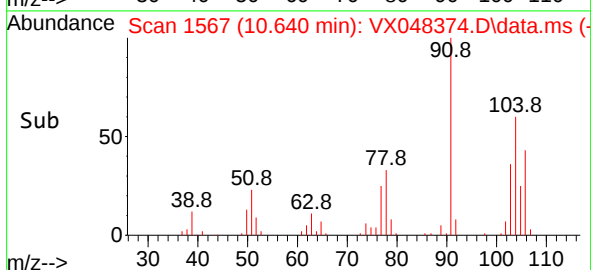
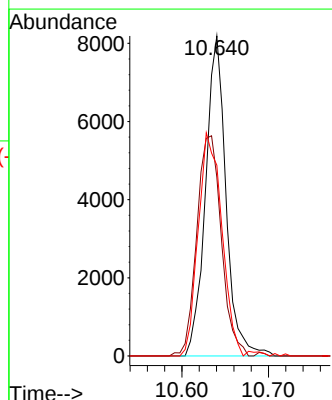
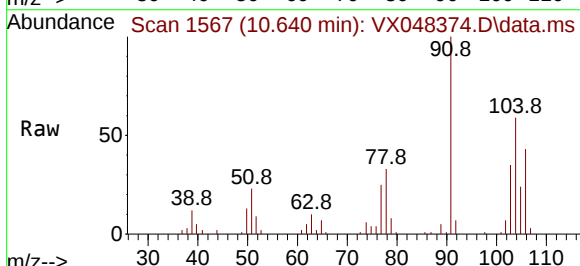
Tgt Ion:104 Resp: 13449

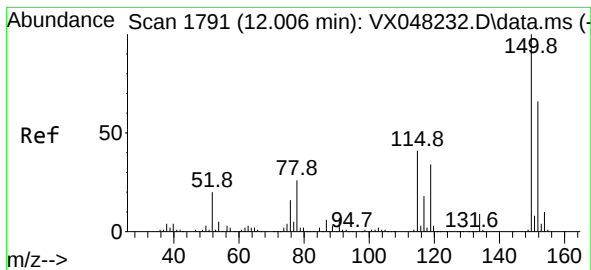
Ion Ratio Lower Upper

104 100

78 82.3 42.2 63.4#

103 80.5 43.0 64.4#

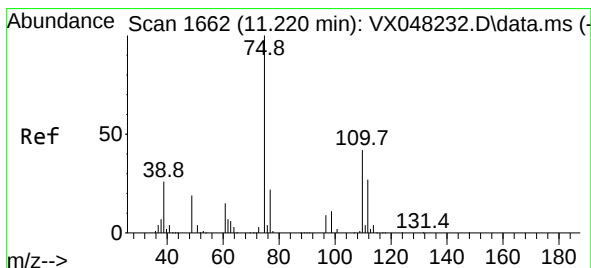
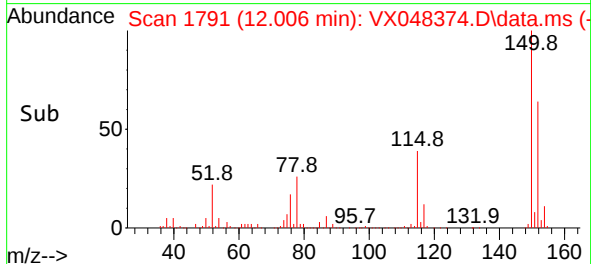
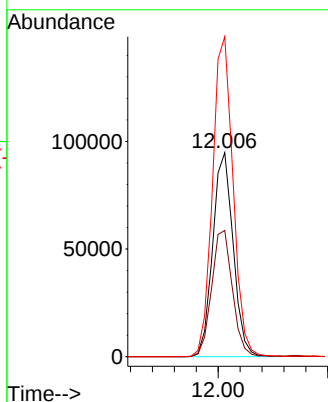
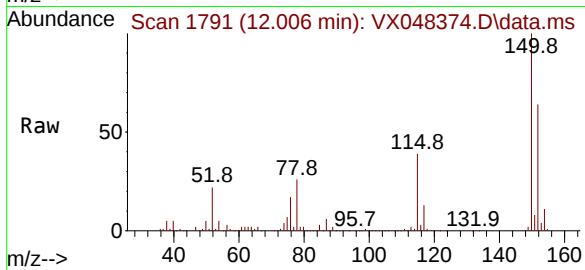




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX048374.D
 Acq: 27 Oct 2025 16:04

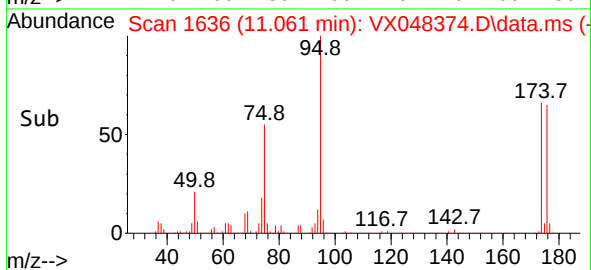
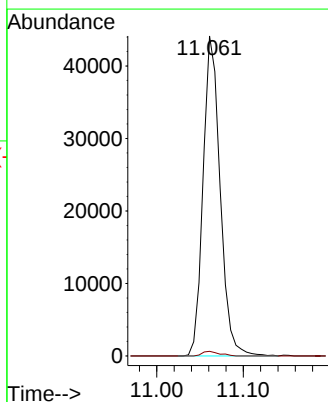
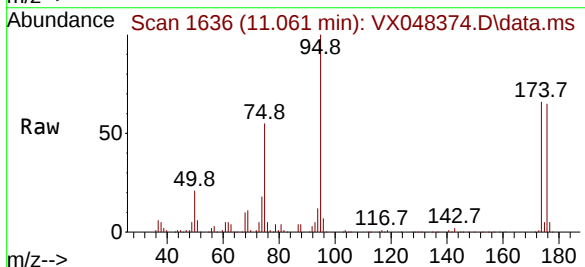
Instrument :
 MSVOA_X
 ClientSampleId :
 SB-20DL

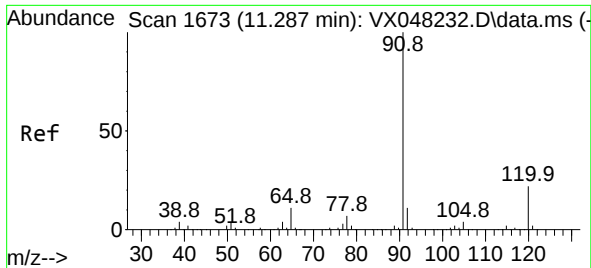
Tgt Ion:152 Resp: 122693
 Ion Ratio Lower Upper
 152 100
 115 63.0 43.1 129.4
 150 157.6 0.0 353.0



#76
 1,2,3-Trichloropropane
 Concen: 30.348 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048374.D
 Acq: 27 Oct 2025 16:04

Tgt Ion: 75 Resp: 60382
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.4 67.2#

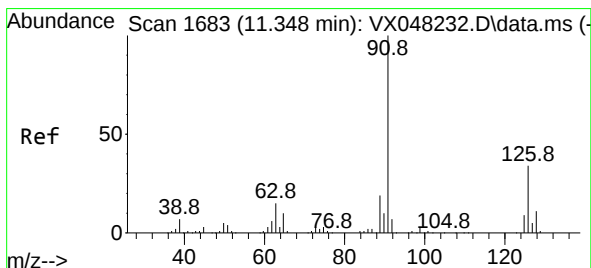
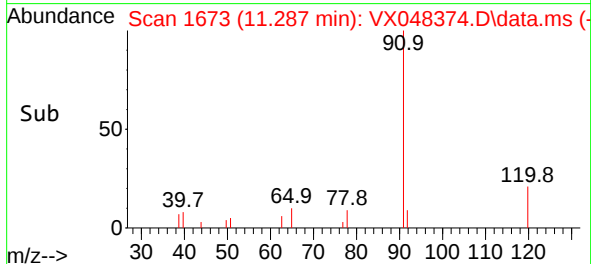
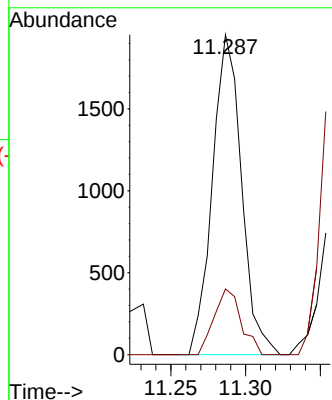
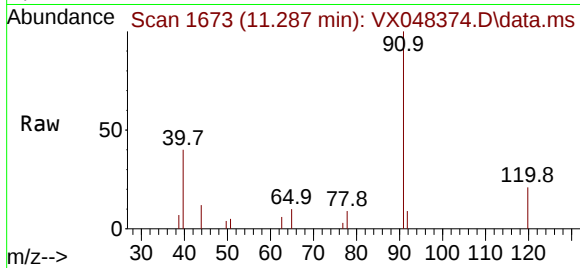




#78
n-propylbenzene
Concen: 0.255 ug/l
RT: 11.287 min Scan# 1673
Delta R.T. -0.000 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

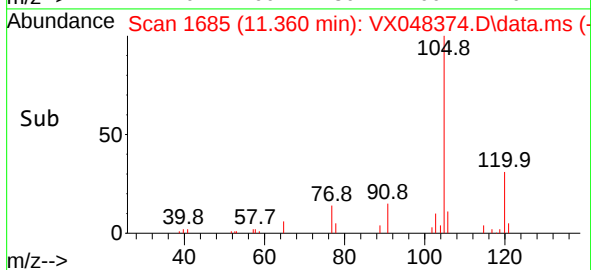
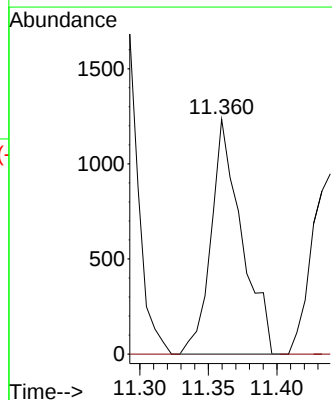
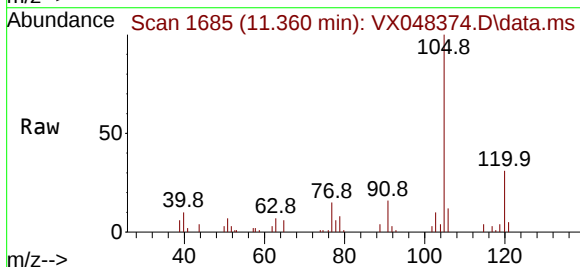
Instrument :
MSVOA_X
ClientSampleId :
SB-20DL

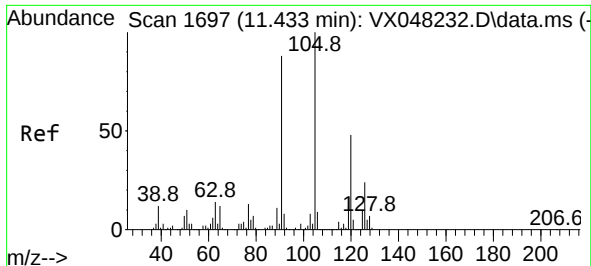
Tgt Ion: 91 Resp: 2645
Ion Ratio Lower Upper
91 100
120 19.1 11.1 33.1



#79
2-Chlorotoluene
Concen: 0.303 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. 0.012 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

Tgt Ion: 91 Resp: 1908
Ion Ratio Lower Upper
91 100
126 0.0 16.4 49.4#

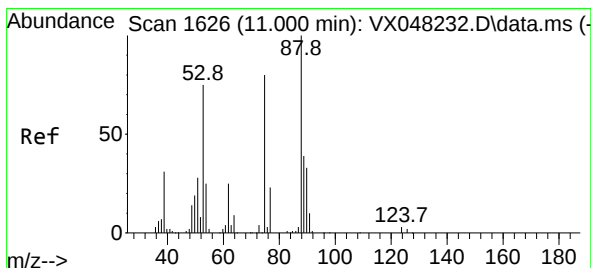
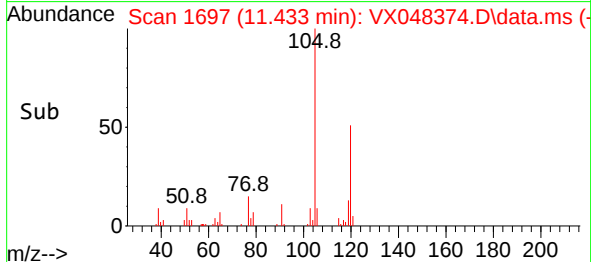
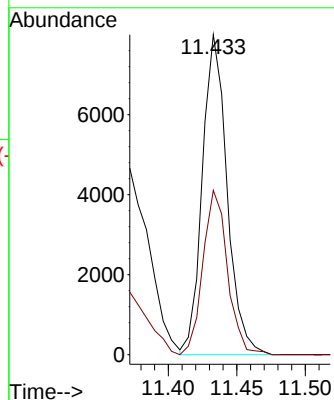
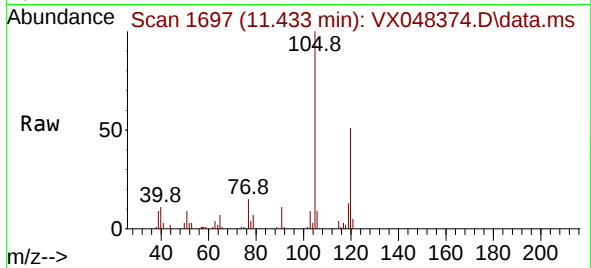




#80
1,3,5-Trimethylbenzene
Concen: 1.354 ug/l
RT: 11.433 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

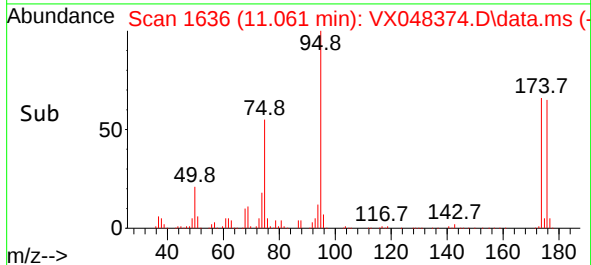
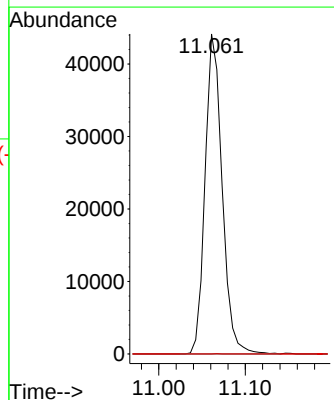
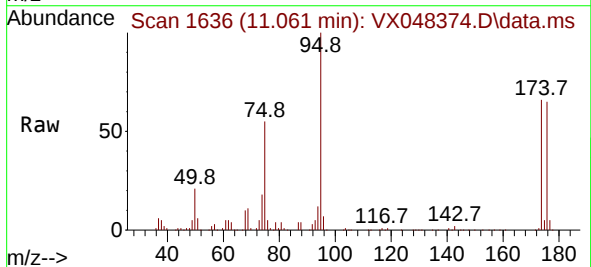
Instrument :
MSVOA_X
ClientSampleId :
SB-20DL

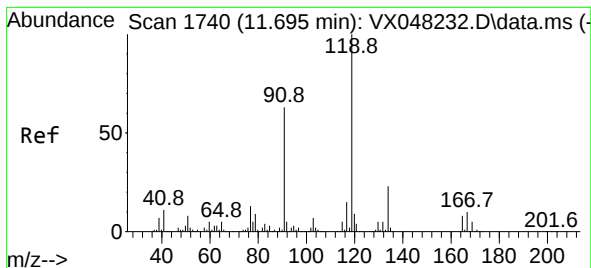
Tgt Ion:105 Resp: 10038
Ion Ratio Lower Upper
105 100
120 51.1 24.0 72.0



#81
trans-1,4-Dichloro-2-butene
Concen: 73.834 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048374.D
Acq: 27 Oct 2025 16:04

Tgt Ion: 75 Resp: 60382
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#





#83

tert-Butylbenzene

Concen: 0.495 ug/l

RT: 11.738 min Scan# 11

Delta R.T. 0.043 min

Lab File: VX048374.D

Acq: 27 Oct 2025 16:04

Instrument :

MSVOA_X

ClientSampleId :

SB-20DL

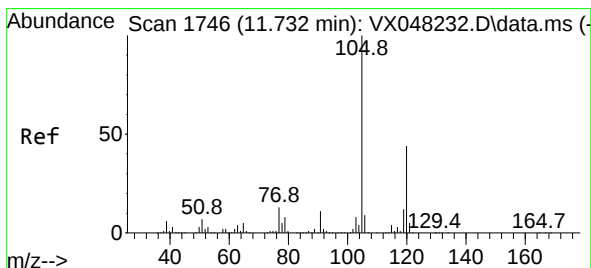
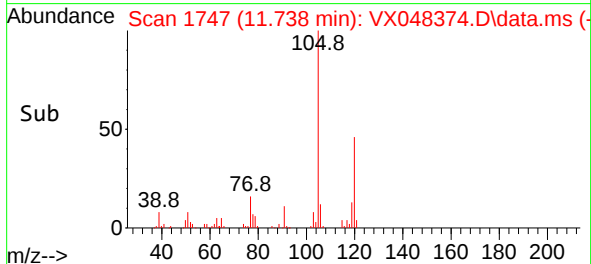
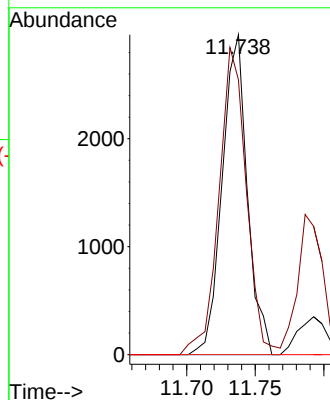
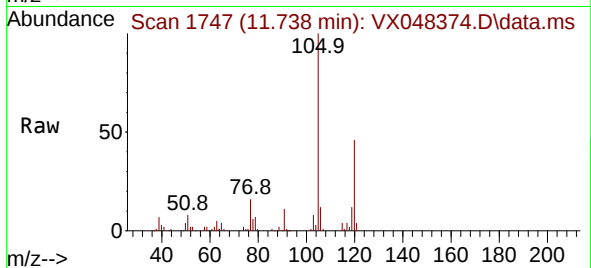
Tgt Ion:119 Resp: 3773

Ion Ratio Lower Upper

119 100

91 105.0 30.3 91.0#

134 0.0 11.4 34.2#



#84

1,2,4-Trimethylbenzene

Concen: 4.418 ug/l

RT: 11.732 min Scan# 1746

Delta R.T. -0.000 min

Lab File: VX048374.D

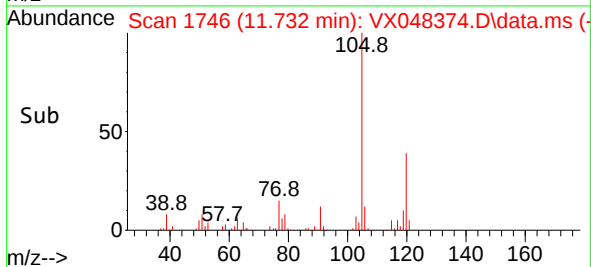
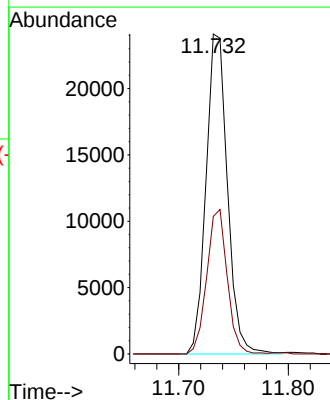
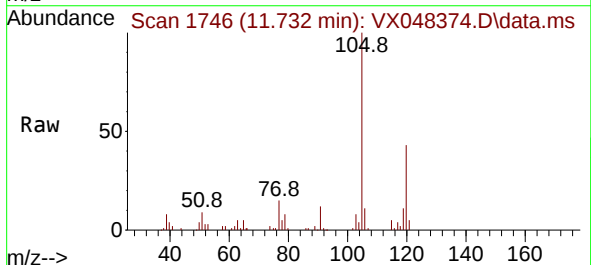
Acq: 27 Oct 2025 16:04

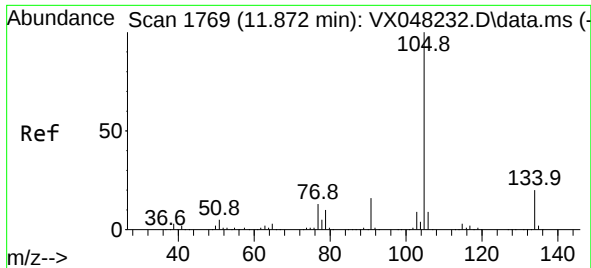
Tgt Ion:105 Resp: 32701

Ion Ratio Lower Upper

105 100

120 43.2 22.1 66.5

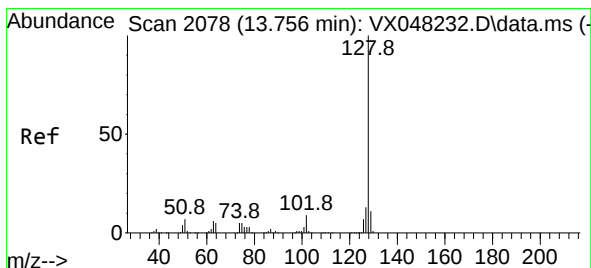
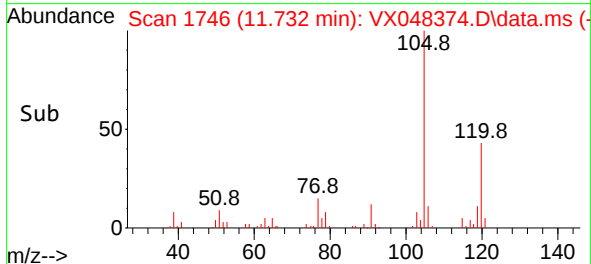
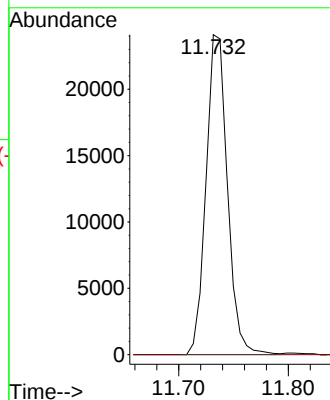
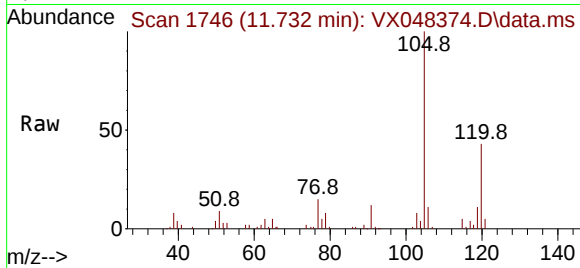




#85
 sec-Butylbenzene
 Concen: 3.567 ug/l
 RT: 11.732 min Scan# 11
 Delta R.T. -0.140 min
 Lab File: VX048374.D
 Acq: 27 Oct 2025 16:04

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-20DL

Tgt Ion:105 Resp: 32701
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.1 30.1#



#95
 Naphthalene
 Concen: 27.243 ug/l
 RT: 13.756 min Scan# 2078
 Delta R.T. -0.000 min
 Lab File: VX048374.D
 Acq: 27 Oct 2025 16:04

Tgt Ion:128 Resp: 194126
 Ion Ratio Lower Upper
 128 100
 127 13.0 10.2 15.4
 129 11.0 8.6 12.8

