

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102725\
 Data File : VX048373.D
 Acq On : 27 Oct 2025 15:44
 Operator : JC/MD
 Sample : Q3446-06 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SB-19DL

Quant Time: Oct 28 01:55:33 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)

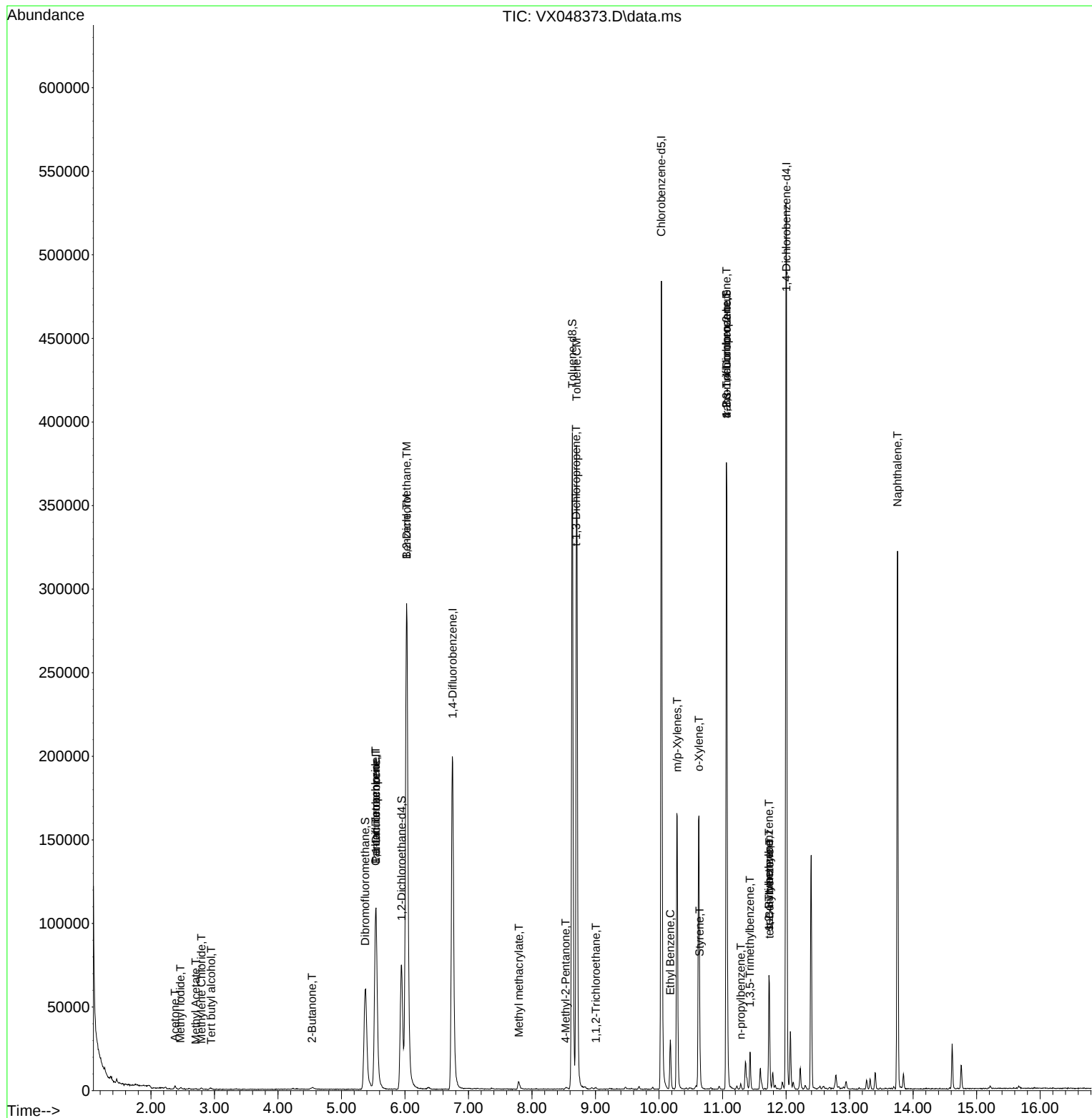
Internal Standards						
1) Pentafluorobenzene	5.544	168	108588	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	217978	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	220322	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	111760	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	81640	53.623	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 107.240%			
35) Dibromofluoromethane	5.373	113	59819	40.198	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 80.400%			
50) Toluene-d8	8.634	98	243679	46.717	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 93.440%			
62) 4-Bromofluorobenzene	11.061	95	105720	53.278	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 106.560%			
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.465	142	1058	0.718	ug/l #	92
11) Tert butyl alcohol	2.946	59	144	0.953	ug/l #	72
16) Acetone	2.379	43	2433	4.658	ug/l	99
18) Methyl Acetate	2.703	43	545	0.500	ug/l #	73
20) Methylene Chloride	2.794	84	328	0.258	ug/l #	60
25) 2-Butanone	4.538	43	279	0.422	ug/l #	50
36) 1,1-Dichloropropene	5.544	75	9356	4.423	ug/l #	50
38) Carbon Tetrachloride	5.537	117	11130	4.265	ug/l #	16
40) Benzene	6.025	78	375466	61.142	ug/l	99
42) 1,2-Dichloroethane	6.025	62	3662	1.616	ug/l #	76
48) Methyl methacrylate	7.793	41	601	0.414	ug/l #	39
51) 4-Methyl-2-Pentanone	8.531	43	446	0.269	ug/l #	38
52) Toluene	8.702	92	149719	38.378	ug/l	99
53) t-1,3-Dichloropropene	8.695	75	1874	0.792	ug/l #	1
55) 1,1,2-Trichloroethane	9.006	97	898	0.619	ug/l #	14
67) Ethyl Benzene	10.177	91	17881	2.119	ug/l	94
68) m/p-Xylenes	10.287	106	39796	12.693	ug/l	99
69) o-Xylene	10.628	106	35830	11.837	ug/l	98
70) Styrene	10.640	104	7739	1.502	ug/l #	22
76) 1,2,3-Trichloropropane	11.061	75	56753	31.314	ug/l #	33
78) n-propylbenzene	11.286	91	2137	0.226	ug/l	96
80) 1,3,5-Trimethylbenzene	11.433	105	9686	1.434	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.061	75	56753	76.185	ug/l #	10
83) tert-Butylbenzene	11.738	119	3163	0.456	ug/l #	45
84) 1,2,4-Trimethylbenzene	11.731	105	29573	4.387	ug/l	96
85) sec-Butylbenzene	11.731	105	29573	3.541	ug/l #	56
95) Naphthalene	13.755	128	189416	29.182	ug/l	100

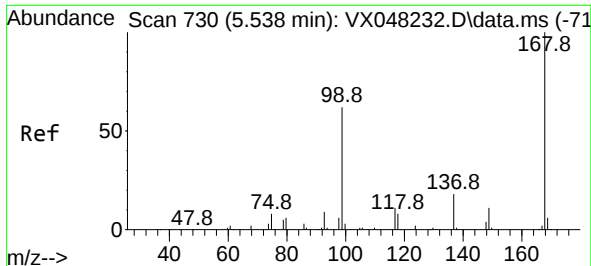
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

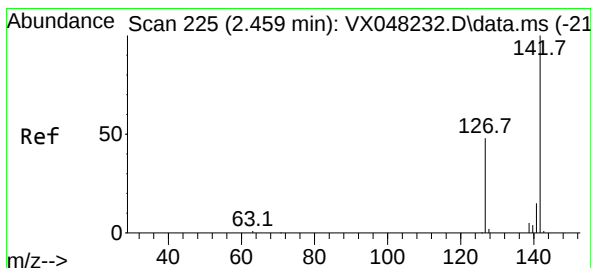
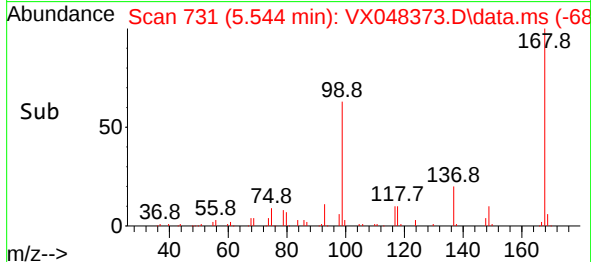
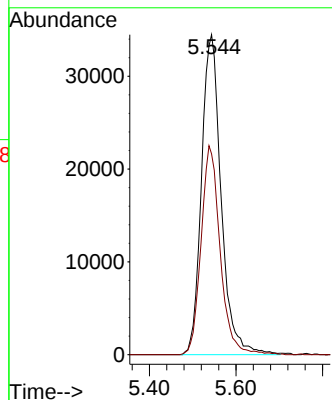
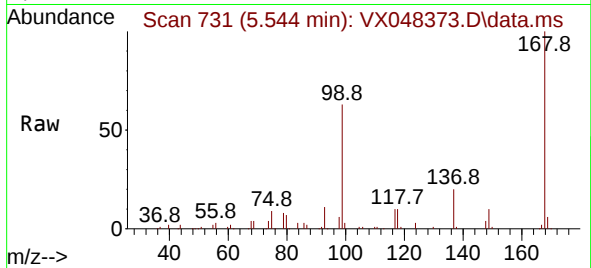




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

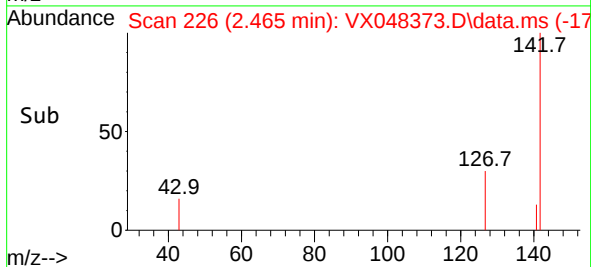
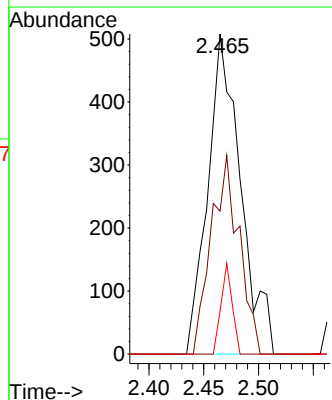
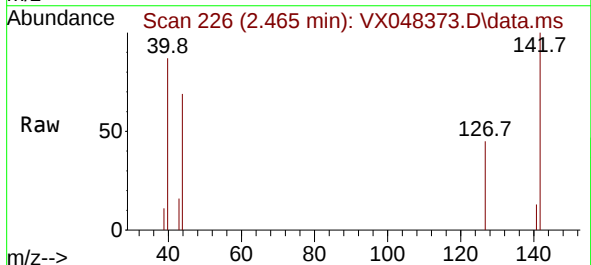
Instrument :
MSVOA_X
ClientSampleId :
SB-19DL

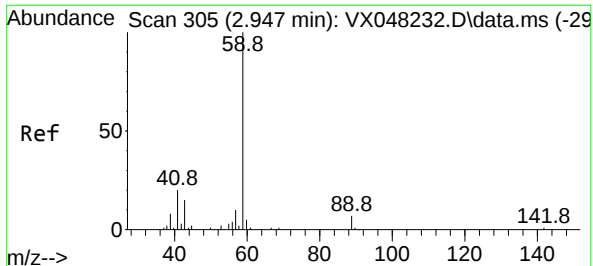
Tgt Ion:168 Resp: 108588
Ion Ratio Lower Upper
168 100
99 62.8 46.4 69.6



#10
Methyl Iodide
Concen: 0.718 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.006 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

Tgt Ion:142 Resp: 1058
Ion Ratio Lower Upper
142 100
127 52.8 38.5 57.7
141 9.5 11.6 17.4#





#11

Tert butyl alcohol

Concen: 0.953 ug/l

RT: 2.946 min Scan# 305

Delta R.T. 0.006 min

Lab File: VX048373.D

Acq: 27 Oct 2025 15:44

Instrument :

MSVOA_X

ClientSampleId :

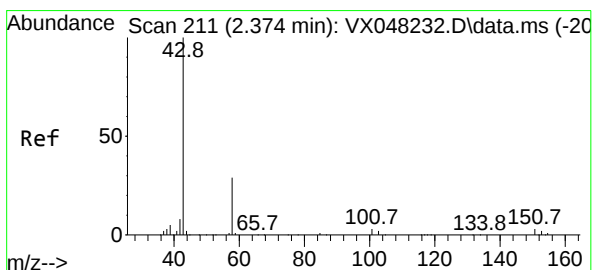
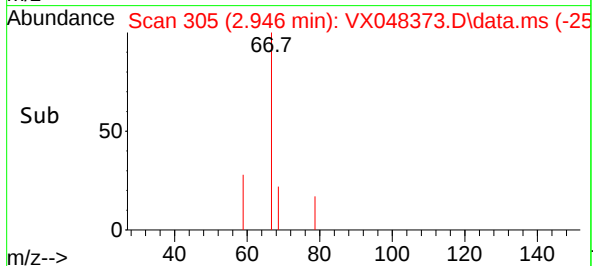
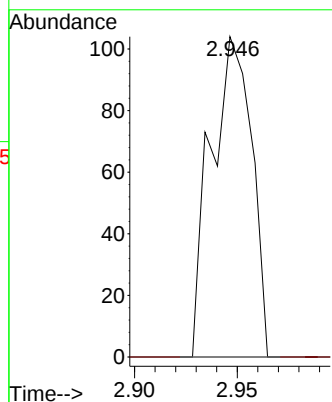
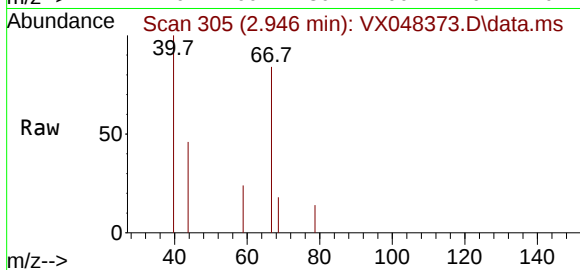
SB-19DL

Tgt Ion: 59 Resp: 144

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 4.658 ug/l

RT: 2.379 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX048373.D

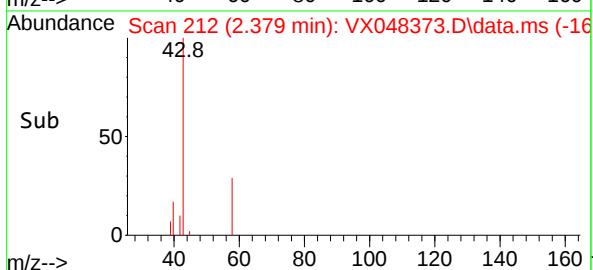
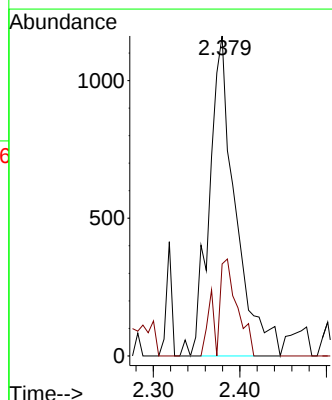
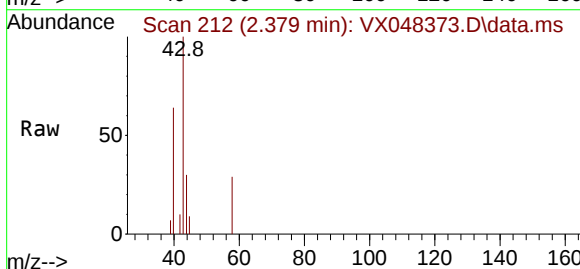
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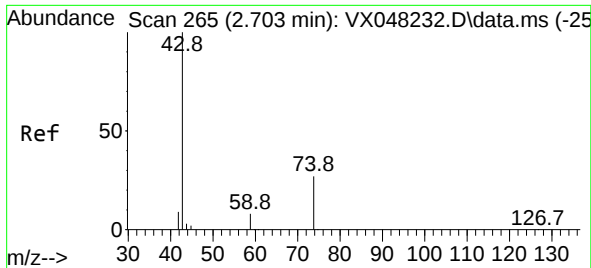
Tgt Ion: 43 Resp: 2433

Ion Ratio Lower Upper

43 100

58 28.7 23.4 35.2

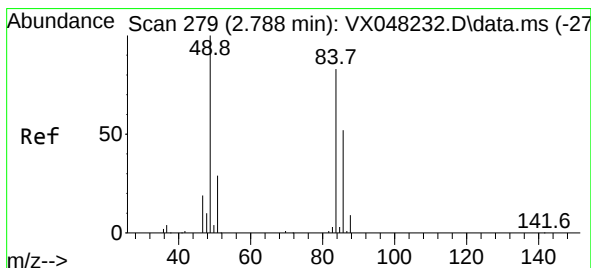
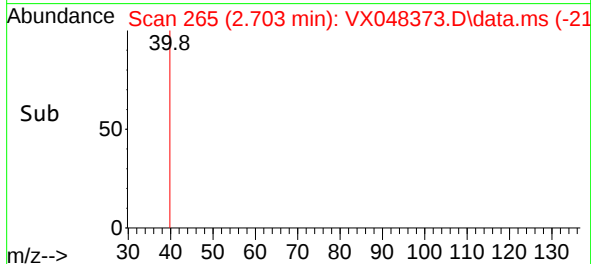
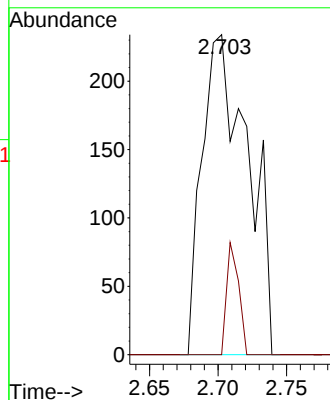
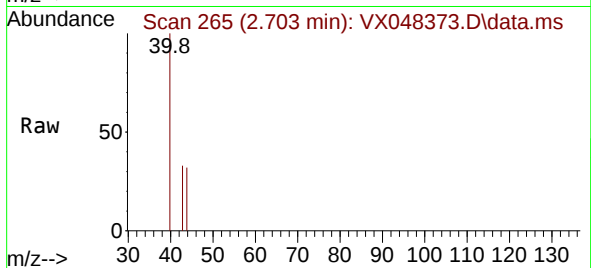




#18
Methyl Acetate
Concen: 0.500 ug/l
RT: 2.703 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

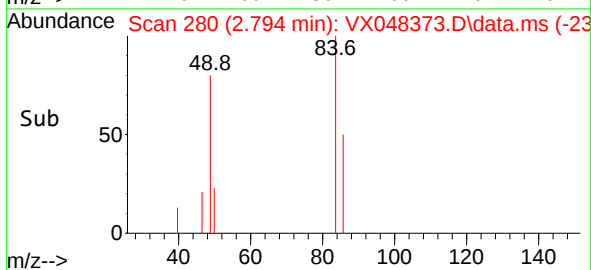
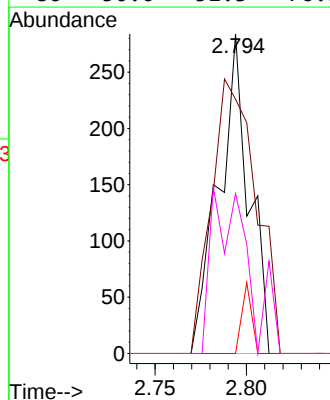
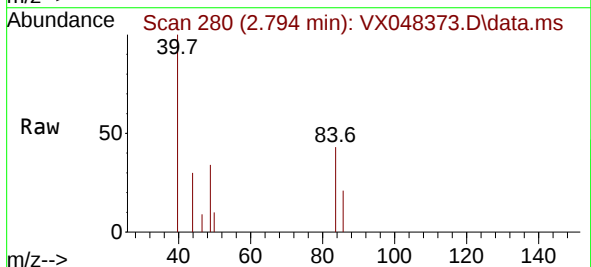
Instrument :
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ClientSampleId :
SB-19DL

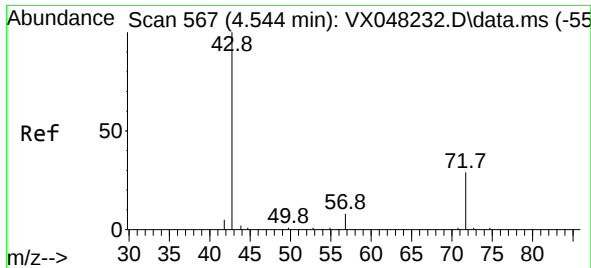
Tgt Ion: 43 Resp: 545
Ion Ratio Lower Upper
43 100
74 9.2 17.5 26.3#



#20
Methylene Chloride
Concen: 0.258 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

Tgt Ion: 84 Resp: 328
Ion Ratio Lower Upper
84 100
49 79.6 104.1 156.1#
51 0.0 31.3 46.9#
86 50.0 51.3 76.9#

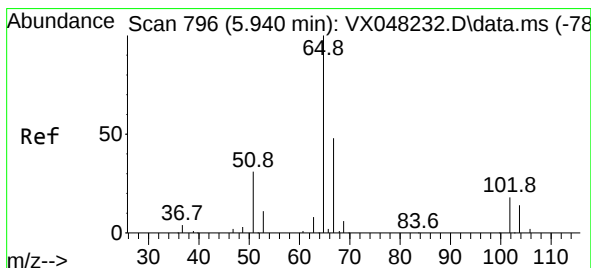
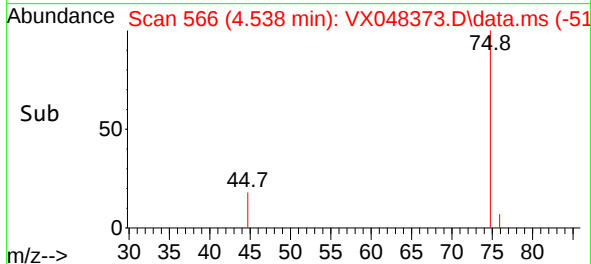
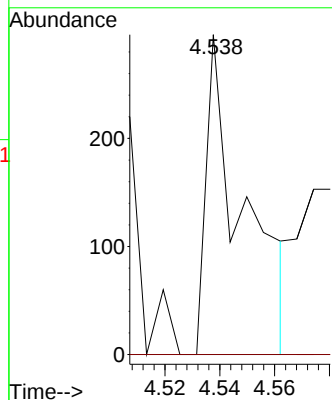
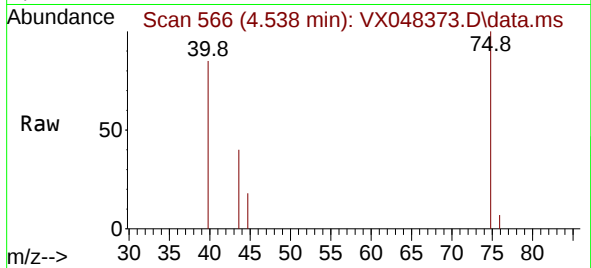




#25
2-Butanone
Concen: 0.422 ug/l
RT: 4.538 min Scan# 51
Delta R.T. -0.000 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

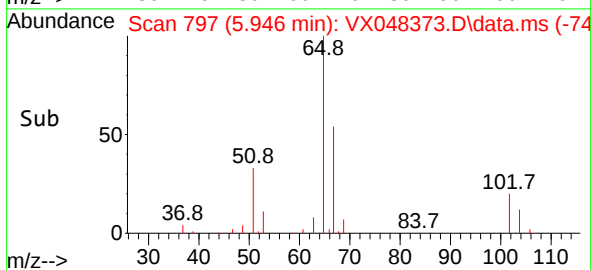
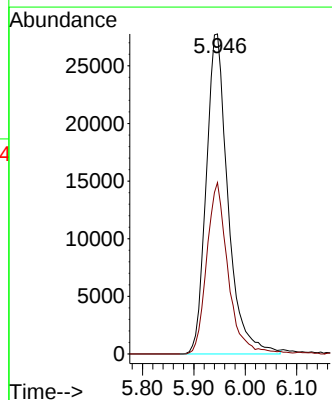
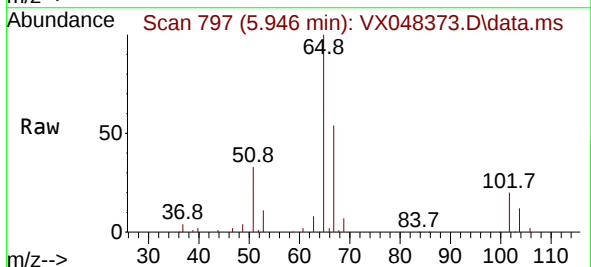
Instrument :
MSVOA_X
ClientSampleId :
SB-19DL

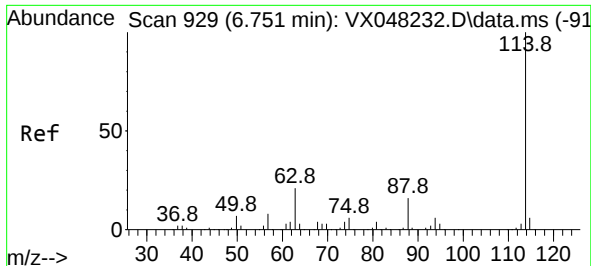
Tgt Ion: 43 Resp: 279
Ion Ratio Lower Upper
43 100
72 0.0 19.9 29.9#



#33
1,2-Dichloroethane-d4
Concen: 53.623 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

Tgt Ion: 65 Resp: 81640
Ion Ratio Lower Upper
65 100
67 52.6 0.0 105.0

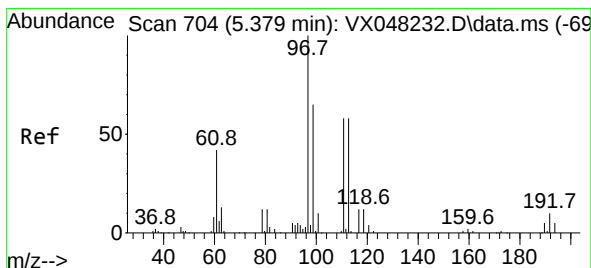
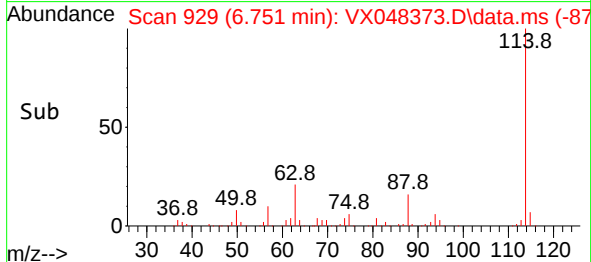
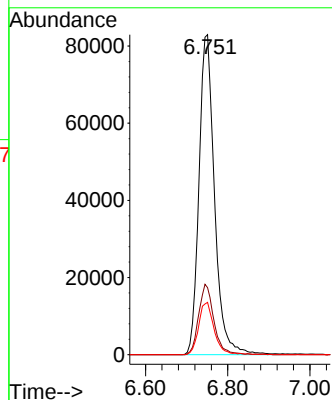
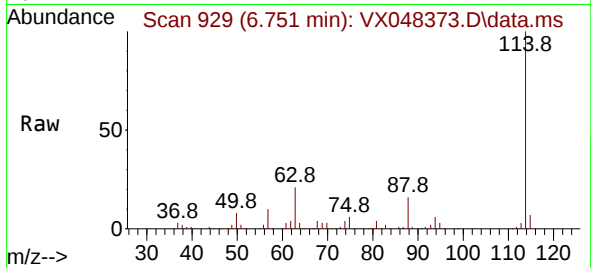




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

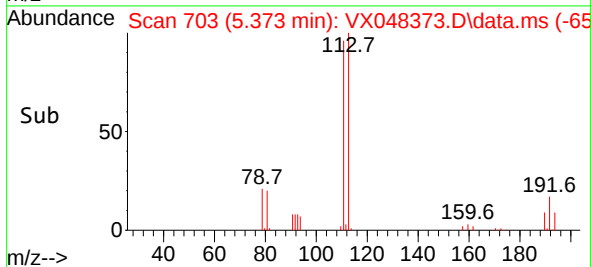
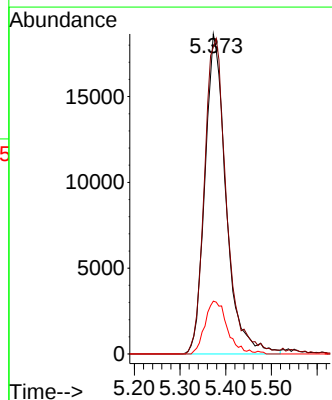
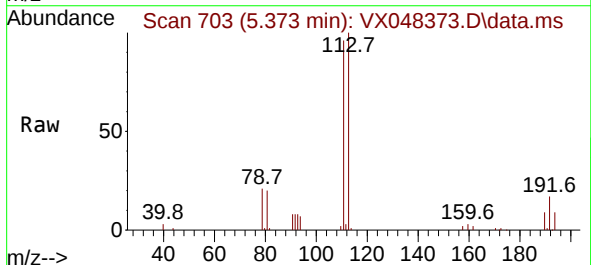
Instrument :
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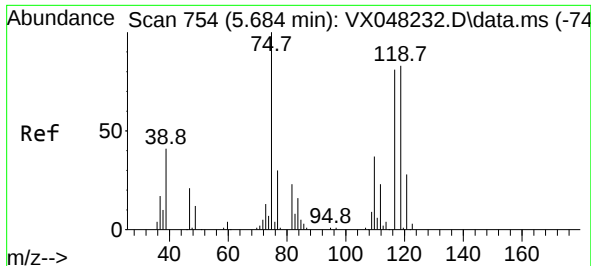
Tgt Ion:114 Resp: 217978
Ion Ratio Lower Upper
114 100
63 21.0 0.0 43.2
88 16.4 0.0 33.6



#35
Dibromofluoromethane
Concen: 40.198 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

Tgt Ion:113 Resp: 59819
Ion Ratio Lower Upper
113 100
111 102.9 82.2 123.4
192 17.5 15.1 22.7





#36

1,1-Dichloropropene

Concen: 4.423 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.140 min

Lab File: VX048373.D

Acq: 27 Oct 2025 15:44

Instrument :

MSVOA_X

ClientSampleId :

SB-19DL

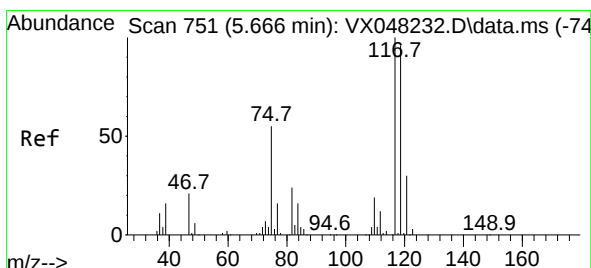
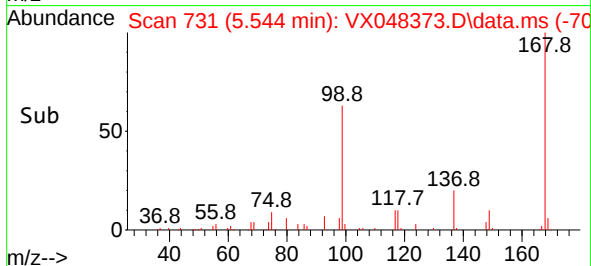
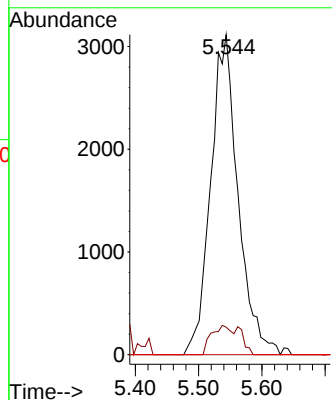
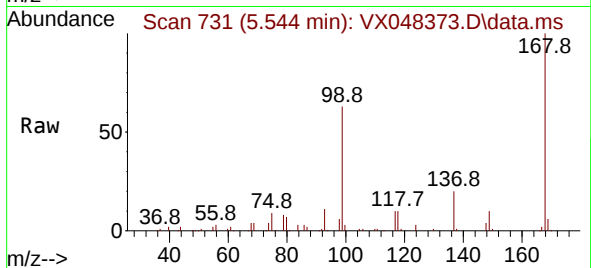
Tgt Ion: 75 Resp: 9356

Ion Ratio Lower Upper

75 100

110 9.6 17.7 53.1#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 4.265 ug/l

RT: 5.537 min Scan# 730

Delta R.T. -0.128 min

Lab File: VX048373.D

Acq: 27 Oct 2025 15:44

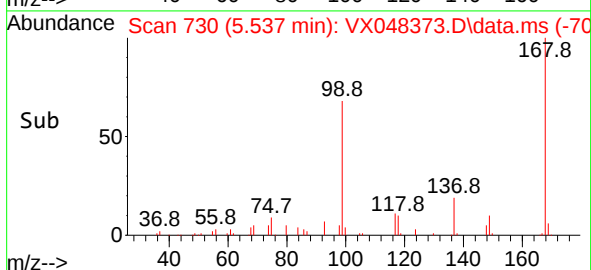
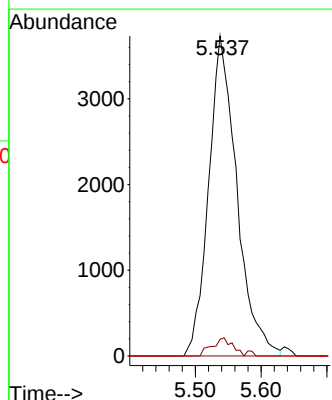
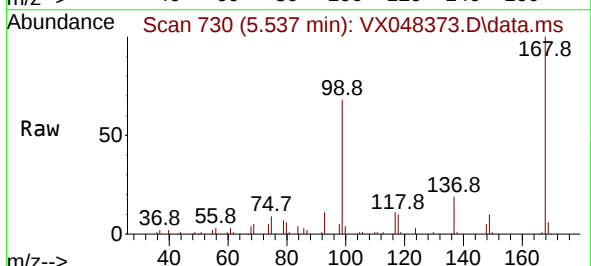
Tgt Ion: 117 Resp: 11130

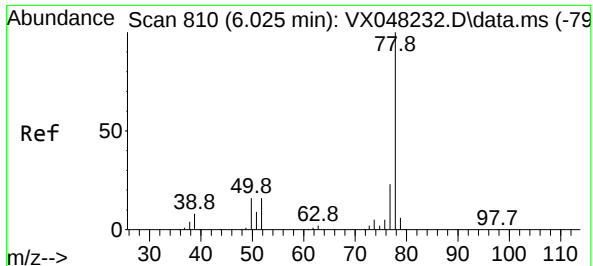
Ion Ratio Lower Upper

117 100

119 5.2 77.2 115.8#

121 0.0 24.8 37.2#

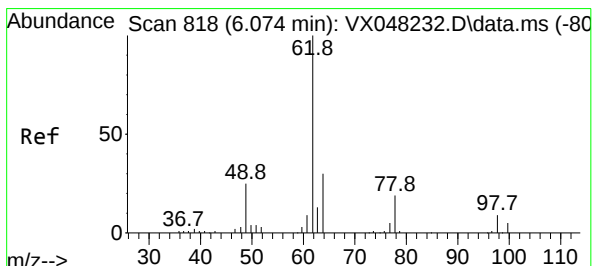
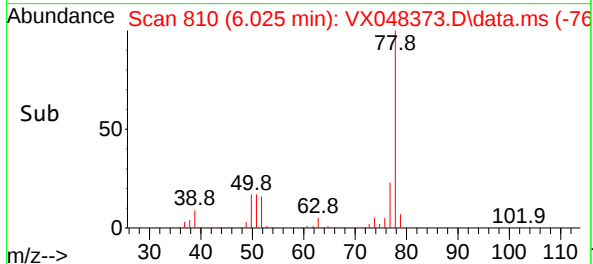
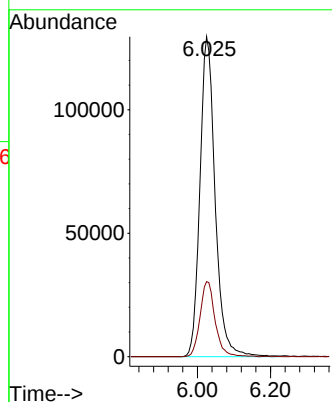
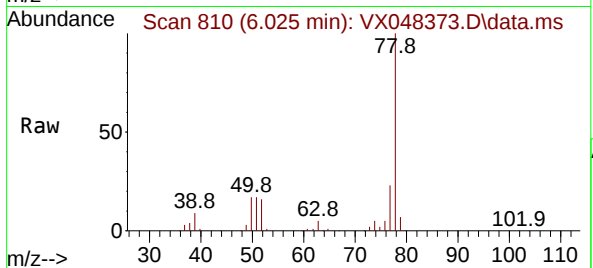




#40
Benzene
Concen: 61.142 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.000 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

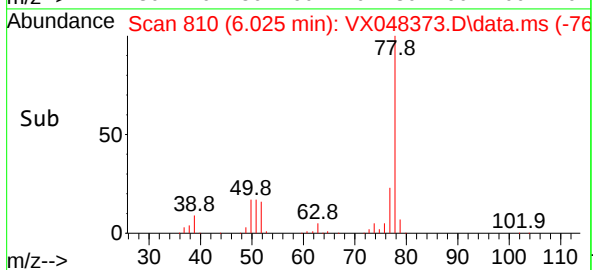
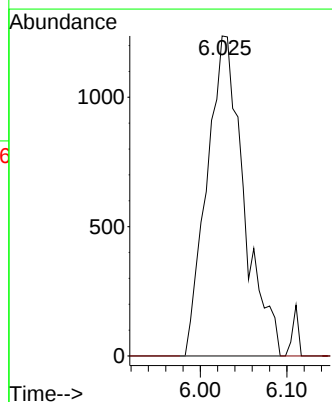
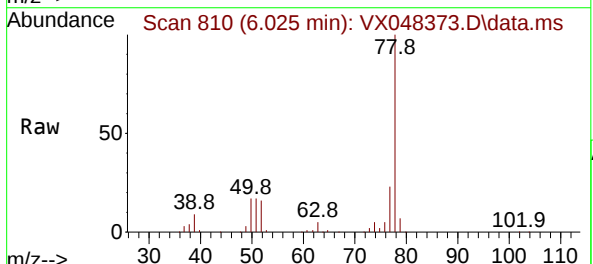
Instrument :
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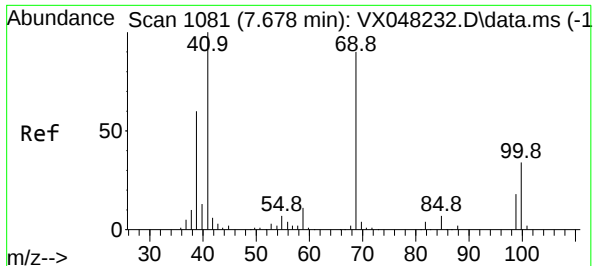
Tgt Ion: 78 Resp: 375466
Ion Ratio Lower Upper
78 100
77 23.5 19.3 28.9



#42
1,2-Dichloroethane
Concen: 1.616 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.043 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

Tgt Ion: 62 Resp: 3662
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.2





#48

Methyl methacrylate

Concen: 0.414 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.116 min

Lab File: VX048373.D

Acq: 27 Oct 2025 15:44

Instrument :

MSVOA_X

ClientSampleId :

SB-19DL

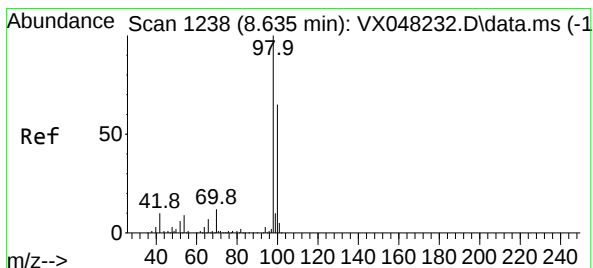
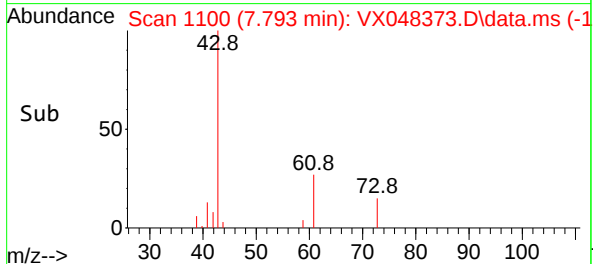
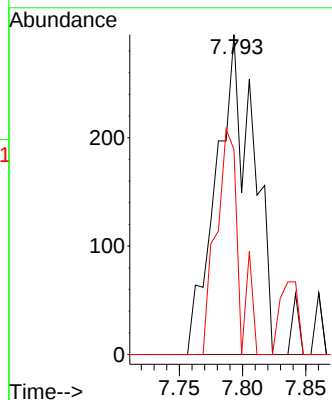
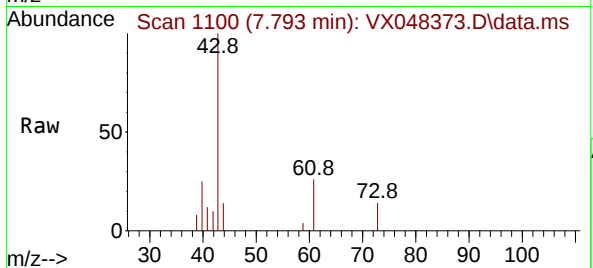
Tgt Ion: 41 Resp: 601

Ion Ratio Lower Upper

41 100

69 0.0 63.4 95.0#

39 43.1 47.1 70.7#



#50

Toluene-d8

Concen: 46.717 ug/l

RT: 8.634 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048373.D

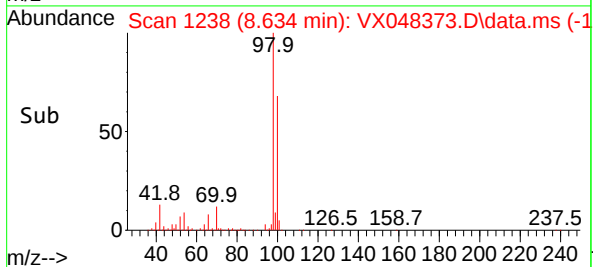
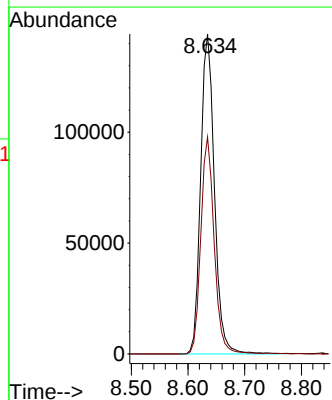
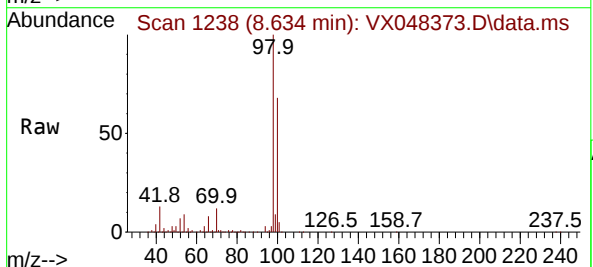
Acq: 27 Oct 2025 15:44

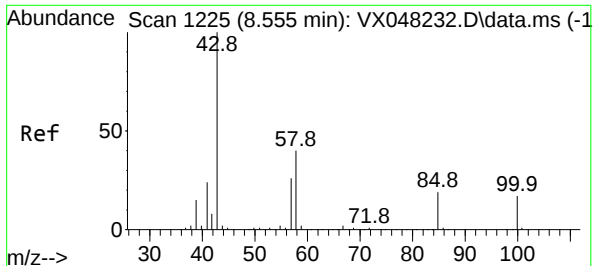
Tgt Ion: 98 Resp: 243679

Ion Ratio Lower Upper

98 100

100 65.6 53.0 79.4





#51

4-Methyl-2-Pentanone

Concen: 0.269 ug/l

RT: 8.531 min Scan# 11

Delta R.T. -0.025 min

Lab File: VX048373.D

Acq: 27 Oct 2025 15:44

Instrument :

MSVOA_X

ClientSampleId :

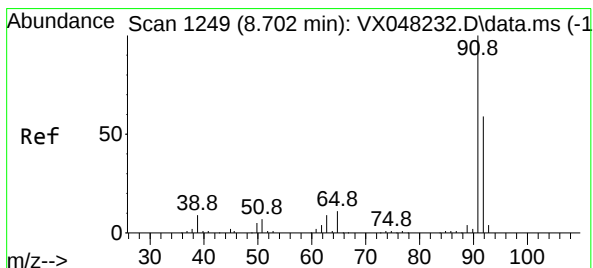
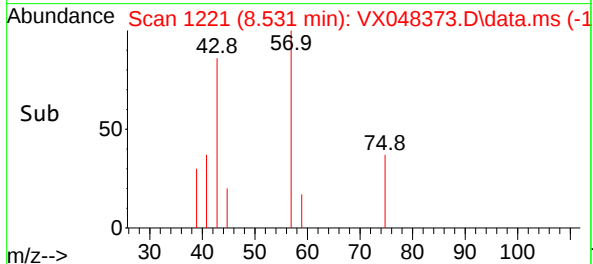
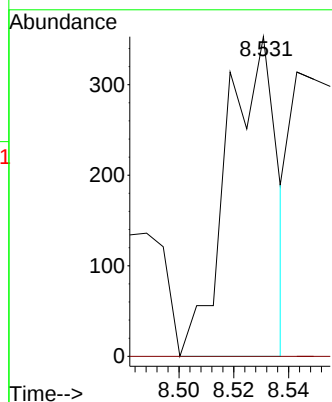
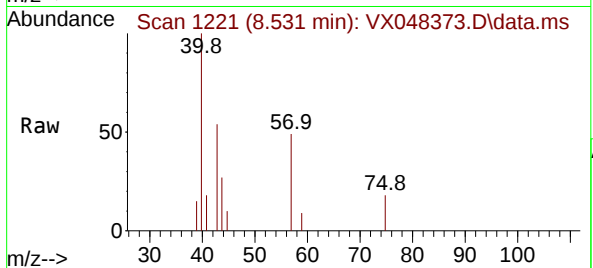
SB-19DL

Tgt Ion: 43 Resp: 446

Ion Ratio Lower Upper

43 100

58 0.0 29.5 44.3#



#52

Toluene

Concen: 38.378 ug/l

RT: 8.702 min Scan# 1249

Delta R.T. -0.000 min

Lab File: VX048373.D

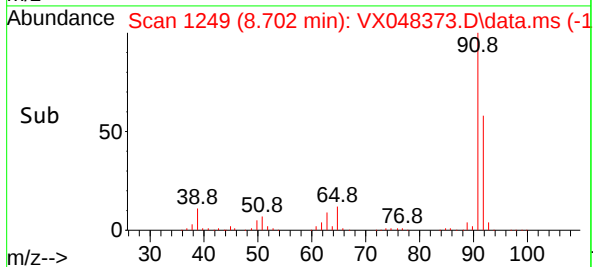
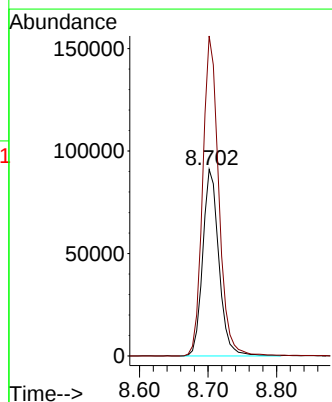
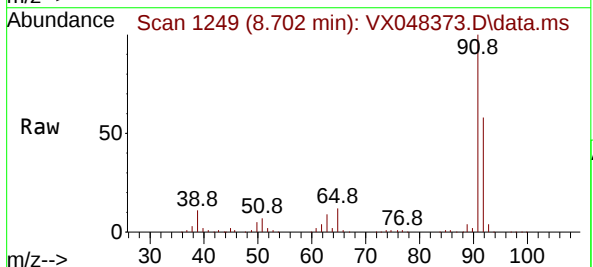
Acq: 27 Oct 2025 15:44

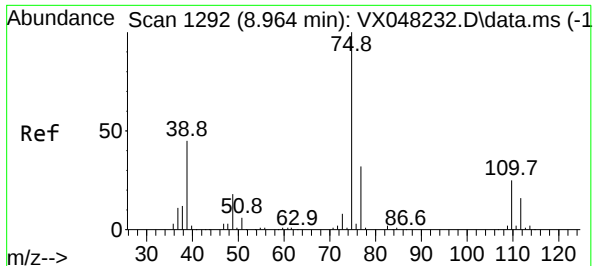
Tgt Ion: 92 Resp: 149719

Ion Ratio Lower Upper

92 100

91 171.2 136.1 204.1





#53

t-1,3-Dichloropropene

Concen: 0.792 ug/l

RT: 8.695 min Scan# 11

Delta R.T. -0.268 min

Lab File: VX048373.D

Acq: 27 Oct 2025 15:44

Instrument :

MSVOA_X

ClientSampleId :

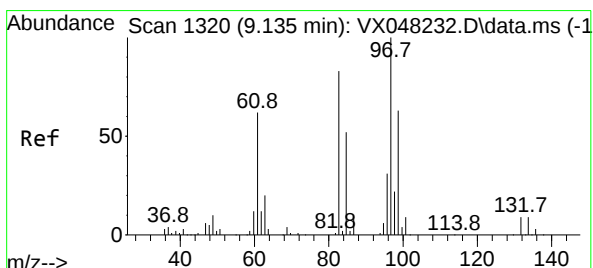
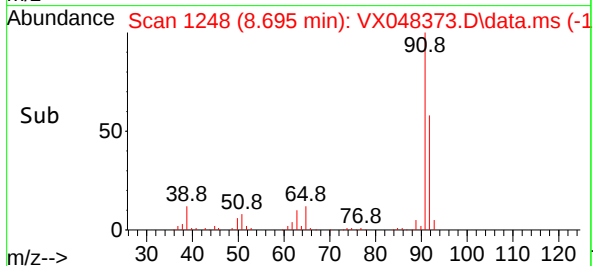
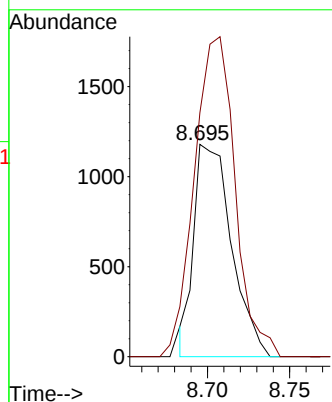
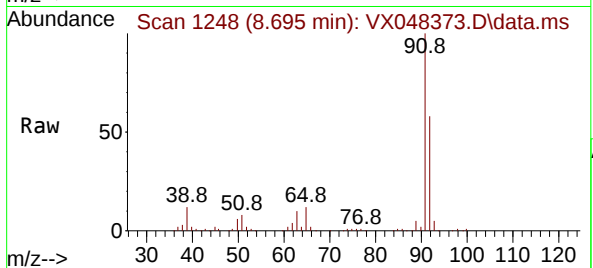
SB-19DL

Tgt Ion: 75 Resp: 1874

Ion Ratio Lower Upper

75 100

77 114.8 25.0 37.6#



#55

1,1,2-Trichloroethane

Concen: 0.619 ug/l

RT: 9.006 min Scan# 1299

Delta R.T. -0.128 min

Lab File: VX048373.D

Acq: 27 Oct 2025 15:44

Tgt Ion: 97 Resp: 898

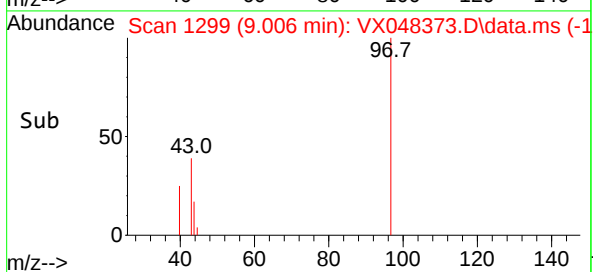
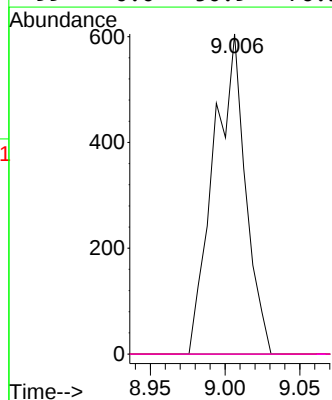
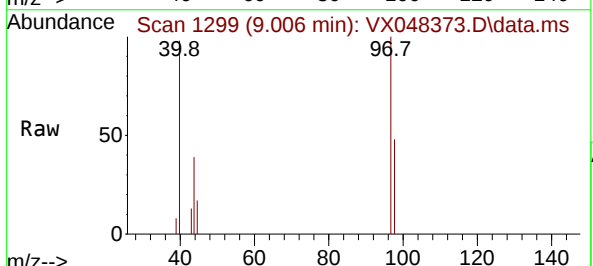
Ion Ratio Lower Upper

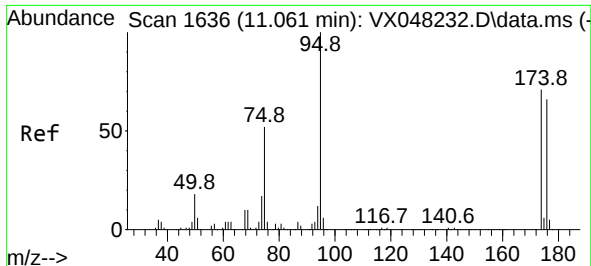
97 100

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: 53.278 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX048373.D

Acq: 27 Oct 2025 15:44

Instrument :

MSVOA_X

ClientSampleId :

SB-19DL

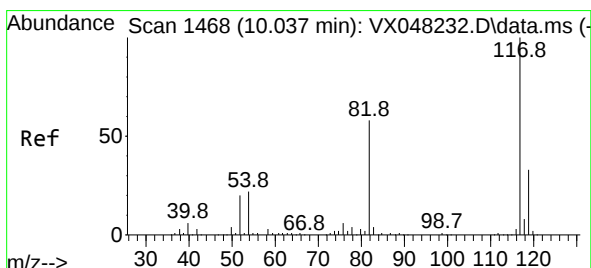
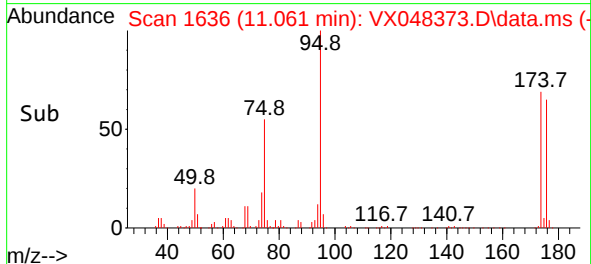
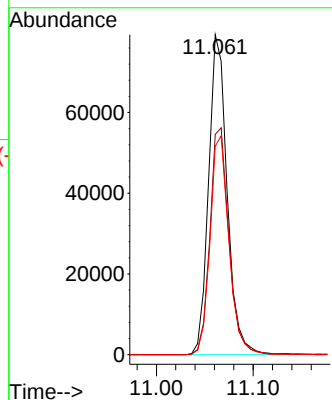
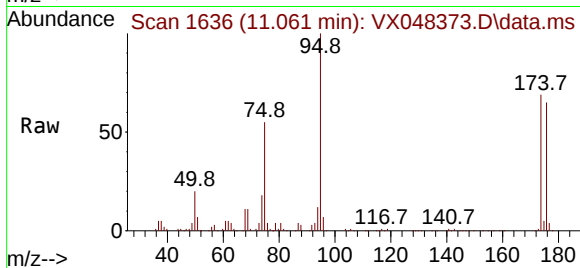
Tgt Ion: 95 Resp: 105720

Ion Ratio Lower Upper

95 100

174 72.9 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: VX048373.D

Acq: 27 Oct 2025 15:44

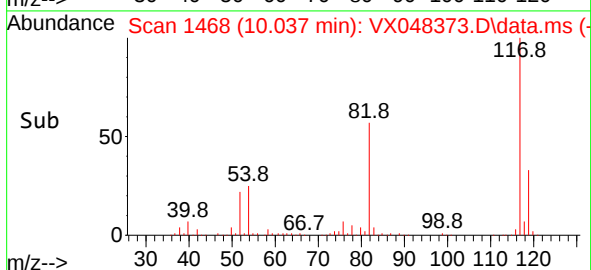
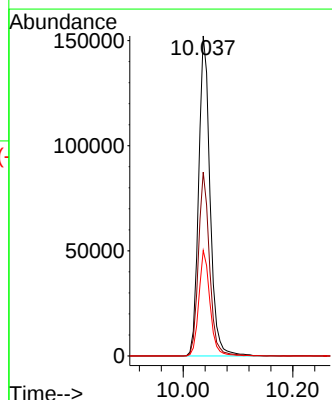
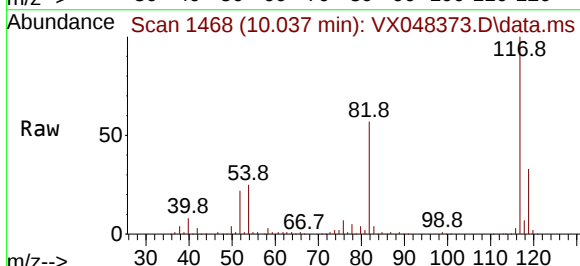
Tgt Ion: 117 Resp: 220322

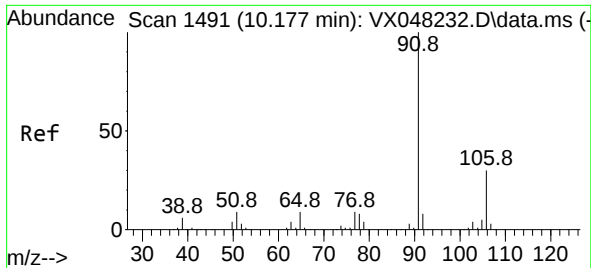
Ion Ratio Lower Upper

117 100

82 57.5 46.5 69.7

119 33.0 25.9 38.9

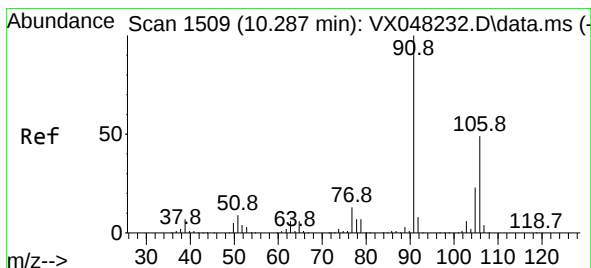
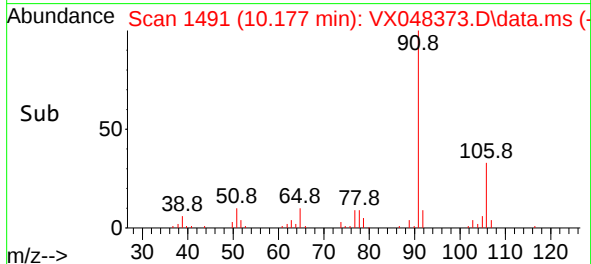
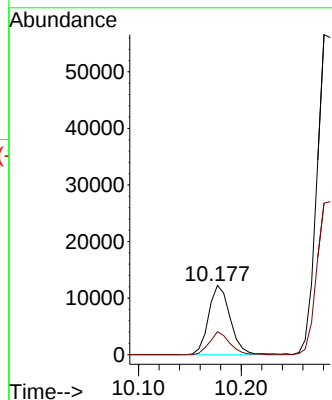
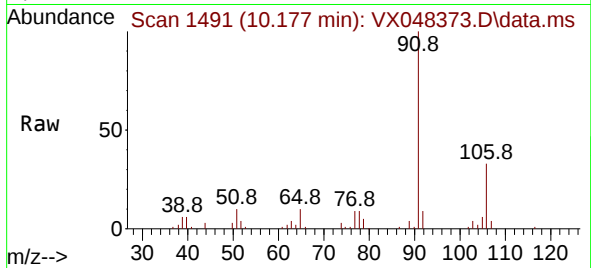




#67
Ethyl Benzene
Concen: 2.119 ug/l
RT: 10.177 min Scan# 1491
Delta R.T. -0.000 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

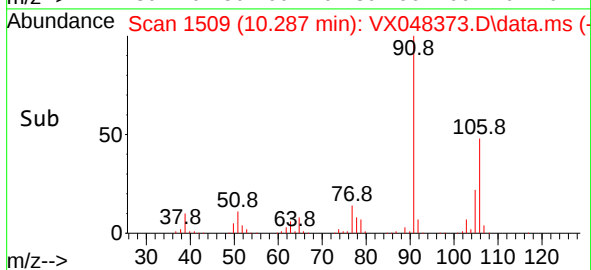
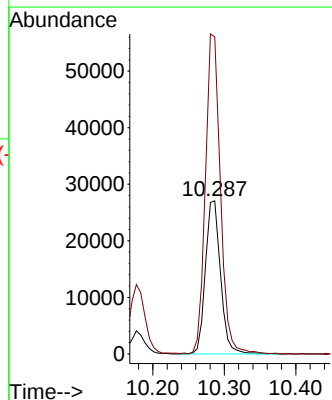
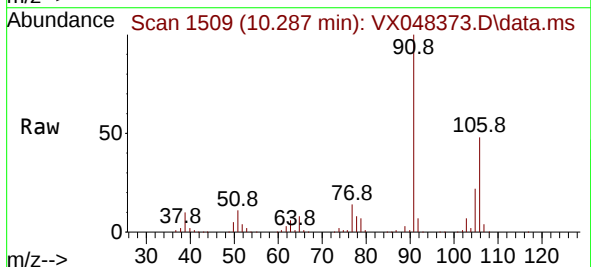
Instrument :
MSVOA_X
ClientSampleId :
SB-19DL

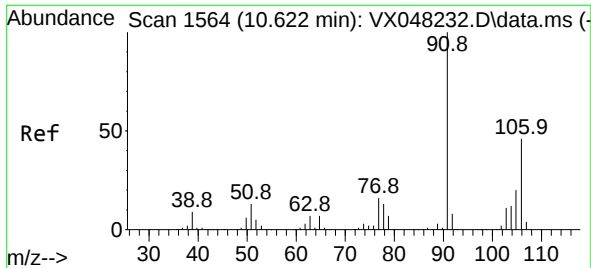
Tgt Ion: 91 Resp: 17881
Ion Ratio Lower Upper
91 100
106 33.2 23.8 35.6



#68
m/p-Xylenes
Concen: 12.693 ug/l
RT: 10.287 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

Tgt Ion: 106 Resp: 39796
Ion Ratio Lower Upper
106 100
91 208.5 167.9 251.9

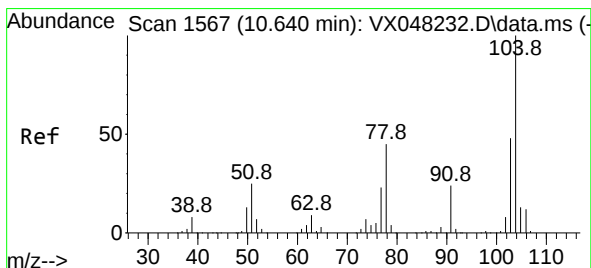
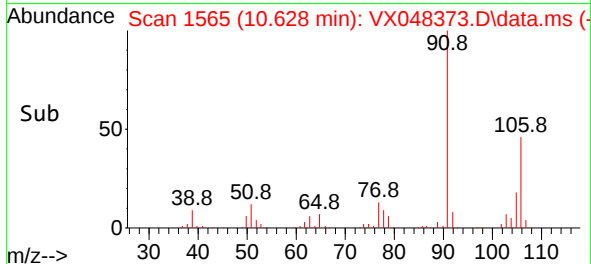
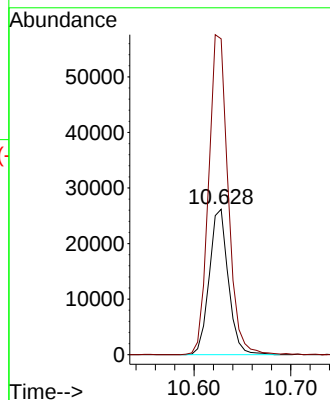
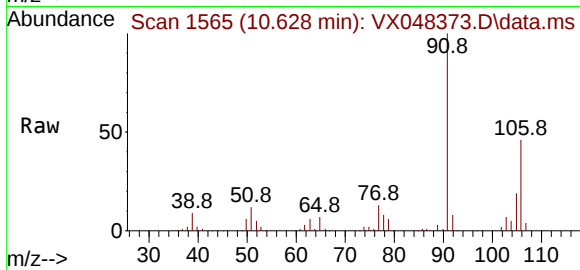




#69
o-Xylene
Concen: 11.837 ug/l
RT: 10.628 min Scan# 1564
Delta R.T. 0.006 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

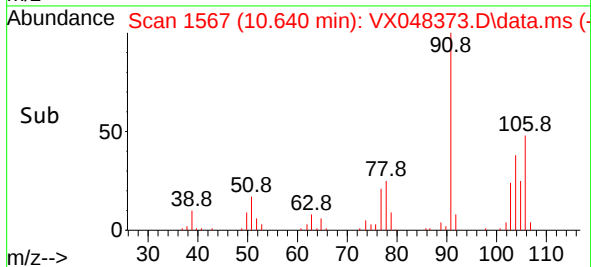
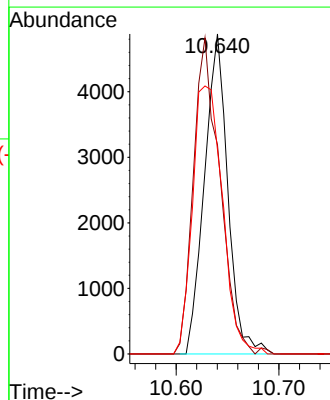
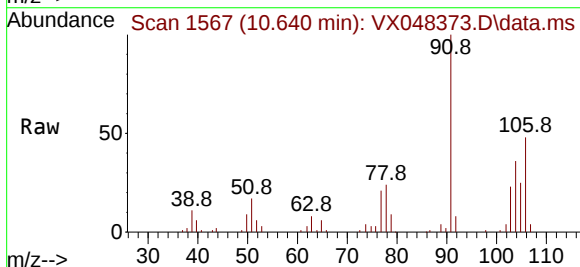
Instrument :
MSVOA_X
ClientSampleId :
SB-19DL

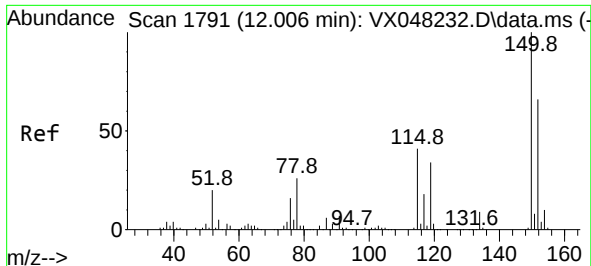
Tgt Ion:106 Resp: 35830
Ion Ratio Lower Upper
106 100
91 225.4 111.3 333.9



#70
Styrene
Concen: 1.502 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

Tgt Ion:104 Resp: 7739
Ion Ratio Lower Upper
104 100
78 110.5 42.2 63.4#
103 107.6 43.0 64.4#

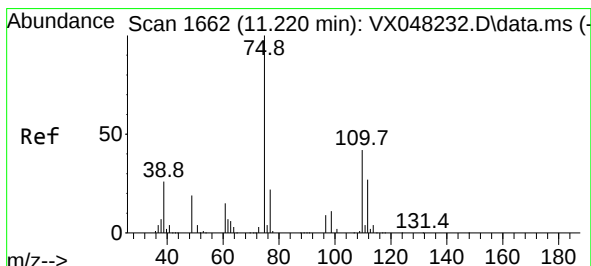
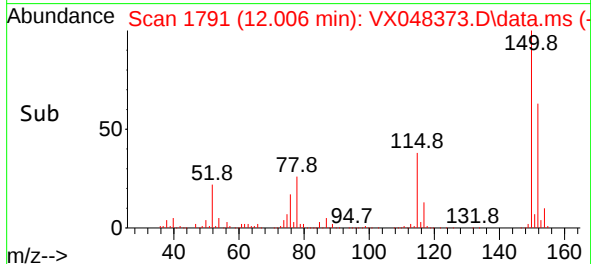
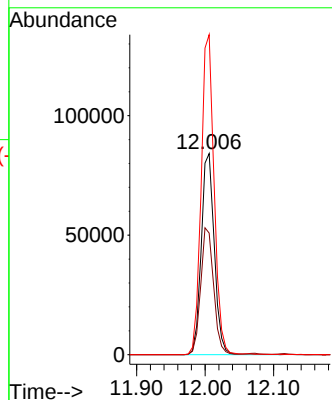
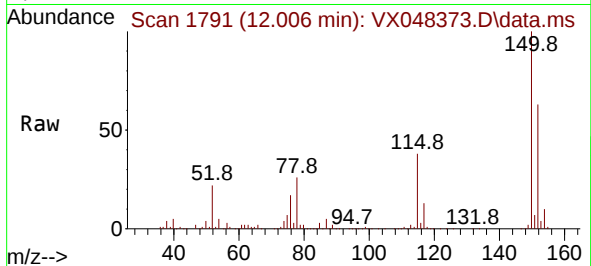




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX048373.D
 Acq: 27 Oct 2025 15:44

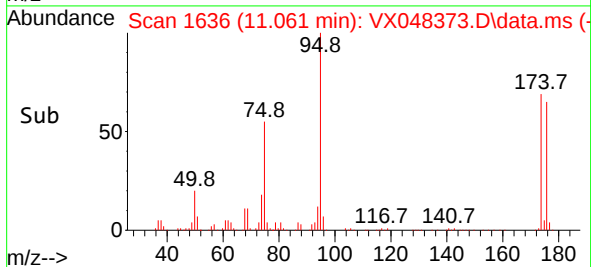
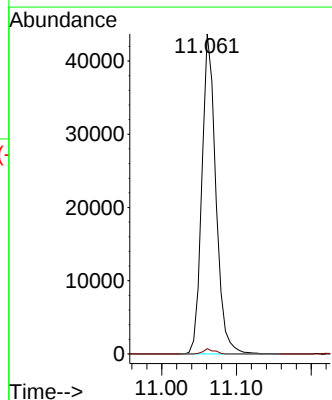
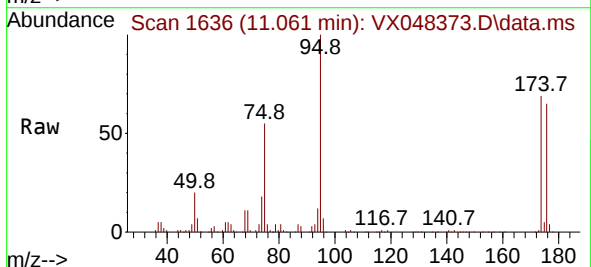
Instrument :
 MSVOA_X
 ClientSampleId :
 SB-19DL

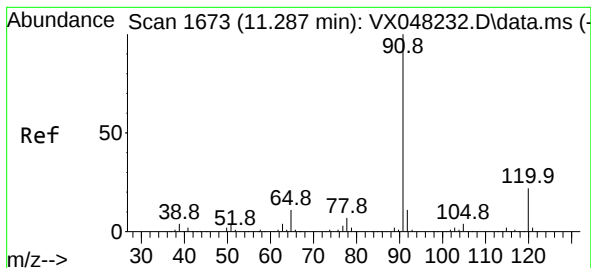
Tgt Ion:152 Resp: 111760
 Ion Ratio Lower Upper
 152 100
 115 62.6 43.1 129.4
 150 158.0 0.0 353.0



#76
 1,2,3-Trichloropropane
 Concen: 31.314 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048373.D
 Acq: 27 Oct 2025 15:44

Tgt Ion: 75 Resp: 56753
 Ion Ratio Lower Upper
 75 100
 77 1.3 22.4 67.2#





#78

n-propylbenzene

Concen: 0.226 ug/l

RT: 11.286 min Scan# 1673

Delta R.T. -0.000 min

Lab File: VX048373.D

Acq: 27 Oct 2025 15:44

Instrument :

MSVOA_X

ClientSampleId :

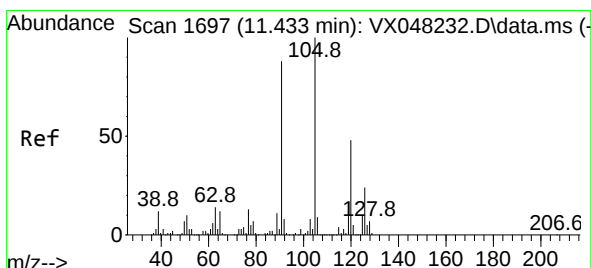
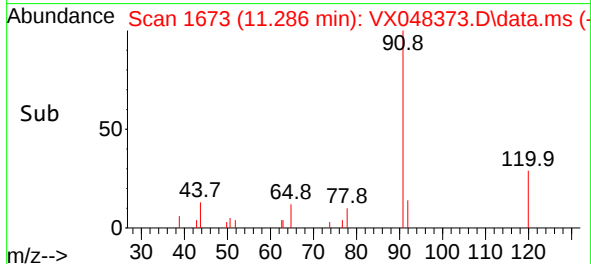
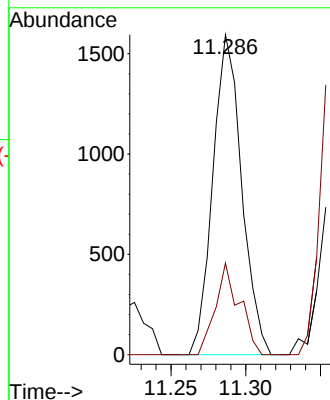
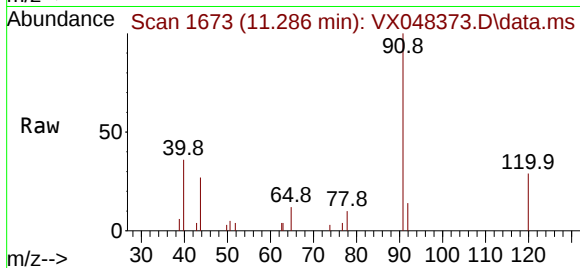
SB-19DL

Tgt Ion: 91 Resp: 2137

Ion Ratio Lower Upper

91 100

120 23.9 11.1 33.1



#80

1,3,5-Trimethylbenzene

Concen: 1.434 ug/l

RT: 11.433 min Scan# 1697

Delta R.T. -0.000 min

Lab File: VX048373.D

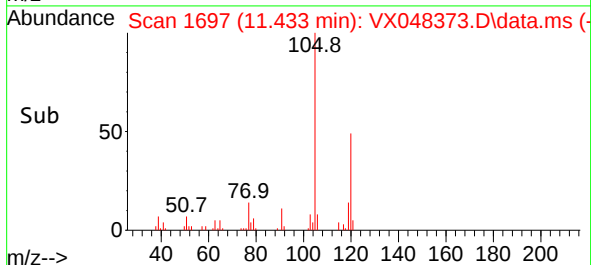
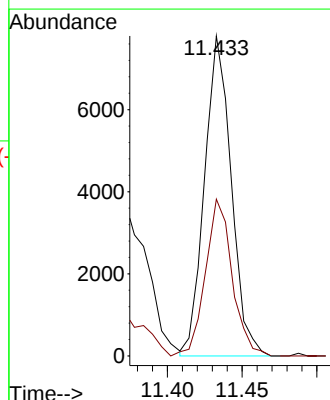
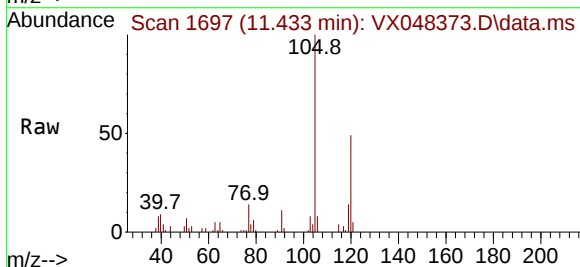
Acq: 27 Oct 2025 15:44

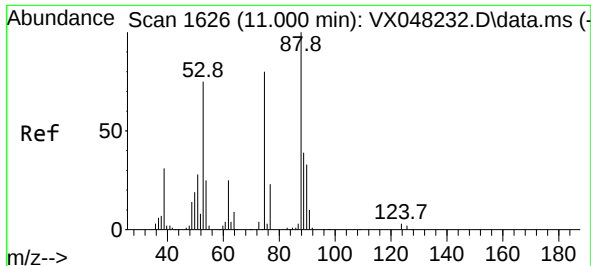
Tgt Ion:105 Resp: 9686

Ion Ratio Lower Upper

105 100

120 49.0 24.0 72.0

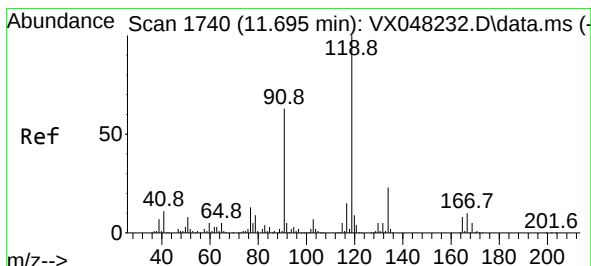
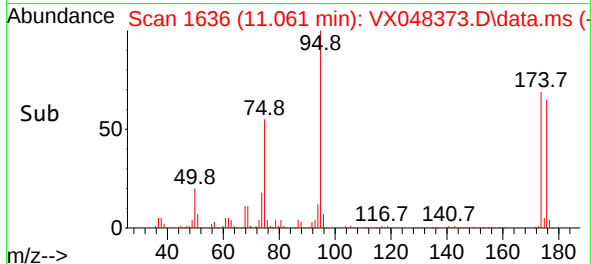
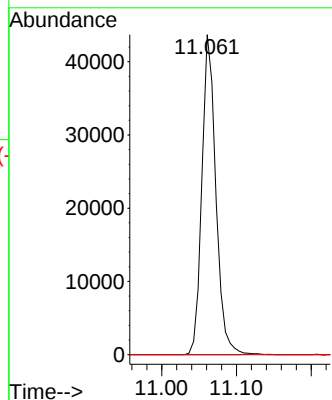
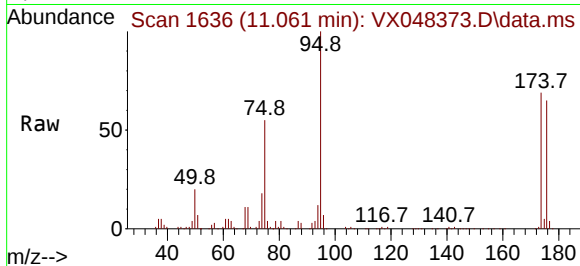




#81
trans-1,4-Dichloro-2-butene
Concen: 76.185 ug/l
RT: 11.061 min Scan# 1106
Delta R.T. 0.061 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

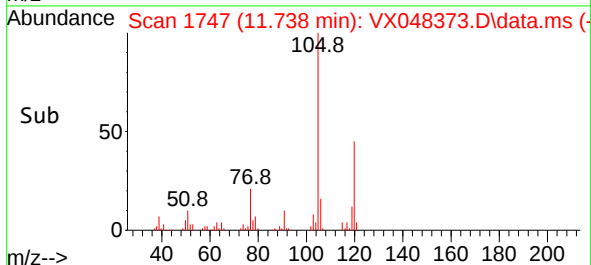
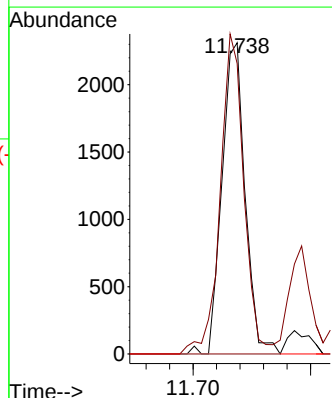
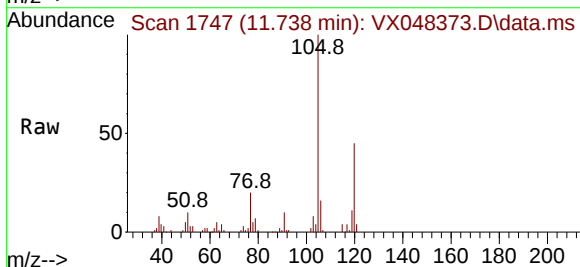
Instrument :
MSVOA_X
ClientSampleId :
SB-19DL

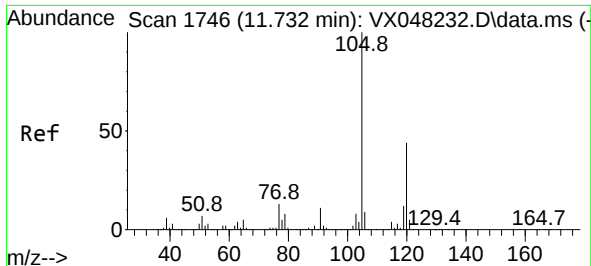
Tgt Ion: 75 Resp: 56753
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#



#83
tert-Butylbenzene
Concen: 0.456 ug/l
RT: 11.738 min Scan# 1747
Delta R.T. 0.042 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

Tgt Ion: 119 Resp: 3163
Ion Ratio Lower Upper
119 100
91 105.0 30.3 91.0#
134 0.0 11.4 34.2#

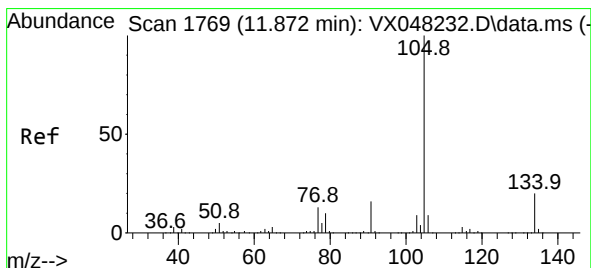
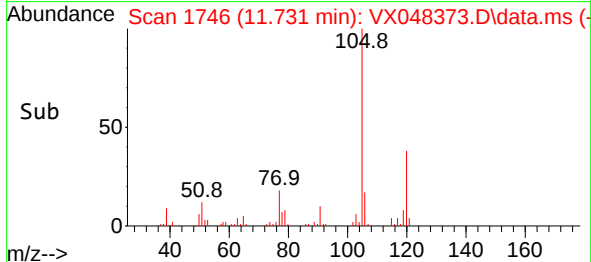
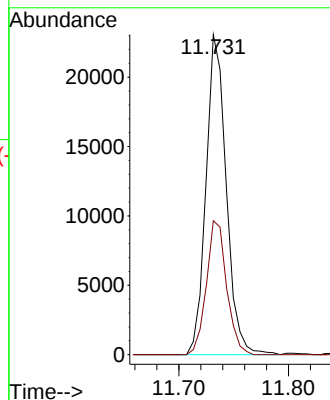
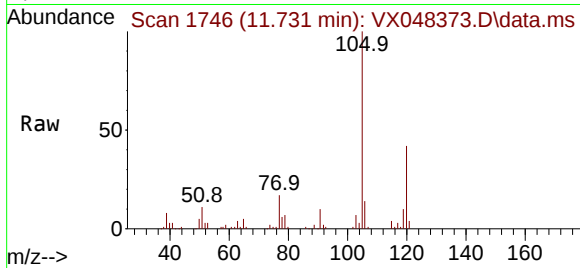




#84
1,2,4-Trimethylbenzene
Concen: 4.387 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.000 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

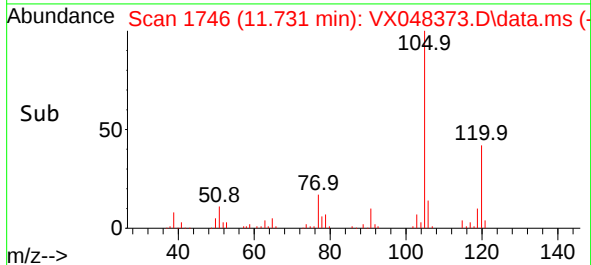
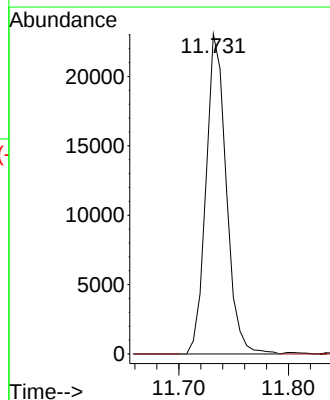
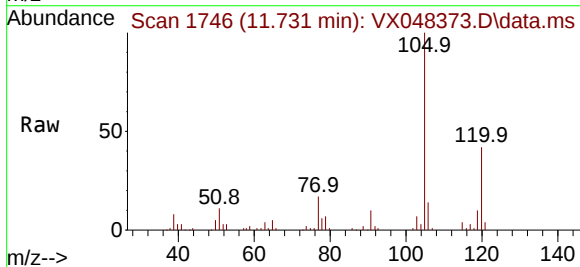
Instrument :
MSVOA_X
ClientSampleId :
SB-19DL

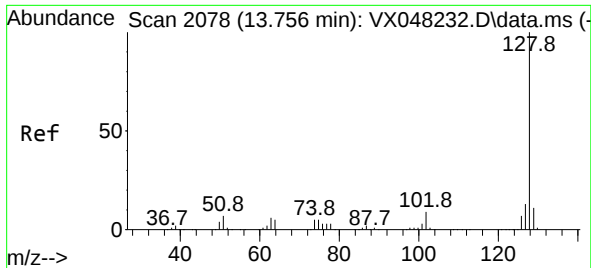
Tgt Ion:105 Resp: 29573
Ion Ratio Lower Upper
105 100
120 41.8 22.1 66.5



#85
sec-Butylbenzene
Concen: 3.541 ug/l
RT: 11.731 min Scan# 1746
Delta R.T. -0.140 min
Lab File: VX048373.D
Acq: 27 Oct 2025 15:44

Tgt Ion:105 Resp: 29573
Ion Ratio Lower Upper
105 100
134 0.0 10.1 30.1#





#95

Naphthalene

Concen: 29.182 ug/l

RT: 13.755 min Scan# 20

Delta R.T. -0.000 min

Lab File: VX048373.D

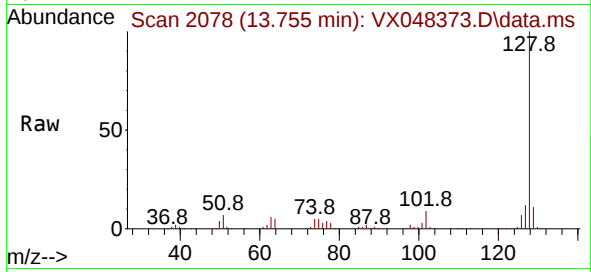
Acq: 27 Oct 2025 15:44

Instrument :

MSVOA_X

ClientSampleId :

SB-19DL



Tgt Ion:128 Resp: 189416

Ion Ratio Lower Upper

128 100

127 12.6 10.2 15.4

129 10.8 8.6 12.8

