

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
 Data File : VX047428.D
 Acq On : 20 Aug 2025 09:46
 Operator : JC/MD
 Sample : VX0820MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0820MBL01

Quant Time: Aug 21 01:25:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	162923	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	335236	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	332362	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	164295	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	138699	60.829	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 121.660%#			
35) Dibromofluoromethane	5.403	113	117506	54.008	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 108.020%			
50) Toluene-d8	8.653	98	414838	53.345	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 106.680%			
62) 4-Bromofluorobenzene	11.079	95	168618	58.758	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 117.520%			
Target Compounds						Qvalue
5) Bromomethane	1.636	94	820	0.866	ug/l #	3
6) Chloroethane	1.709	64	365	0.254	ug/l #	44
10) Methyl Iodide	2.483	142	4433	1.286	ug/l	94
11) Tert butyl alcohol	2.971	59	153	0.771	ug/l #	72
13) Acrolein	2.258	56	103	0.246	ug/l #	1
15) Acrylonitrile	3.105	53	617	0.644	ug/l #	73
16) Acetone	2.398	43	2120	2.474	ug/l #	1
17) Carbon Disulfide	2.532	76	4048	0.654	ug/l	99
36) 1,1-Dichloropropene	5.568	75	14029	4.085	ug/l #	51
38) Carbon Tetrachloride	5.562	117	17666	4.707	ug/l #	15
39) Methylcyclohexane	7.385	83	913	0.213	ug/l #	64
49) 1,4-Dioxane	7.708	88	24	0.929	ug/l #	1
76) 1,2,3-Trichloropropane	11.079	75	88013	29.208	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	88013	114.855	ug/l #	7
85) sec-Butylbenzene	11.890	105	3401	0.260	ug/l	98
86) p-Isopropyltoluene	12.012	119	3146	0.284	ug/l #	87
88) 1,4-Dichlorobenzene	12.036	146	1708	0.277	ug/l #	1
89) n-Butylbenzene	12.335	91	4938	0.480	ug/l	99
90) Hexachloroethane	12.536	117	409	0.211	ug/l	80
91) 1,2-Dichlorobenzene	12.341	146	1218	0.214	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	12.945	75	182	0.249	ug/l #	73
93) 1,2,4-Trichlorobenzene	13.591	180	2758	0.723	ug/l	100
94) Hexachlorobutadiene	13.719	225	4173	3.072	ug/l	96
95) Naphthalene	13.780	128	7211	0.661	ug/l	96
96) 1,2,3-Trichlorobenzene	13.963	180	2889	0.803	ug/l	94

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

Instrument :
MSVOA_X
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VX0820MBL01

Abundance

TIC: VX047428.D\data.ms

Time-->

950000

900000

850000

800000

750000

700000

650000

600000

550000

500000

450000

400000

350000

300000

250000

200000

150000

100000

50000

0

2.00

3.00

4.00

5.00

6.00

7.00

8.00

9.00

10.00

11.00

12.00

13.00

14.00

15.00

16.00

Bromomethane, T

Acrolein, T

Carbon disulfide, T

Tert butyl alcohol, T

Acrylonitrile, T

Dibromofluoromethane, S

1,2-Dichloroethane-d4, S

1,4-Difluorobenzene, I

Methylcyclohexane, T

1,4-Dioxane, T

Toluene-d8, S

Chlorobenzene-d5, I

sec-Butylbenzene, T

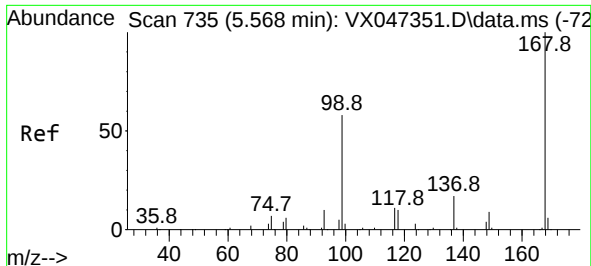
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1,2-Dibromo-3-Chloropropane, T

1,2,4-Trichlorobenzene, T

Naphthalene, T

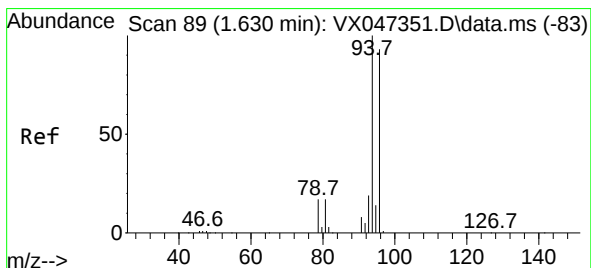
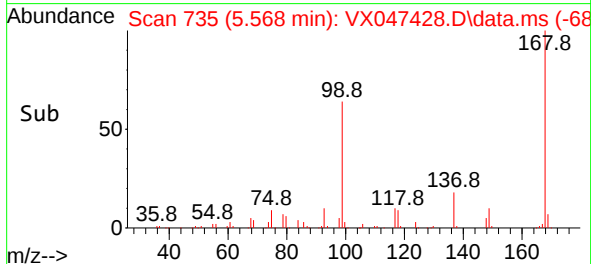
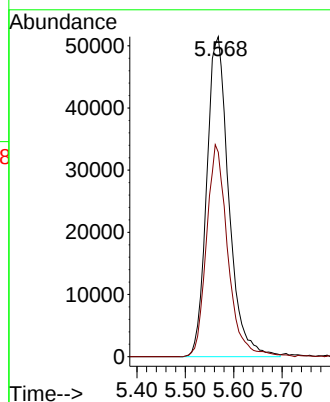
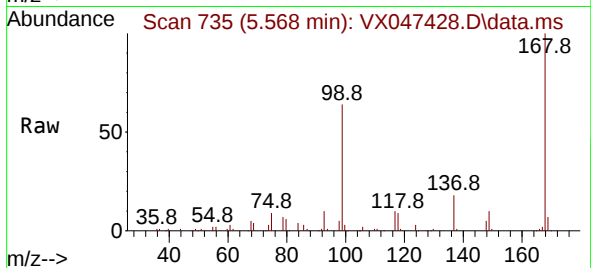
1,2,3-Trichlorobenzene, T



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

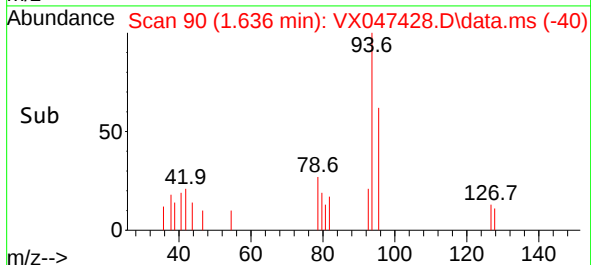
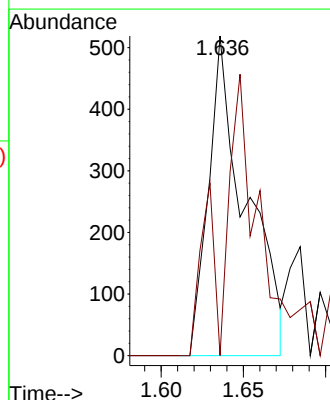
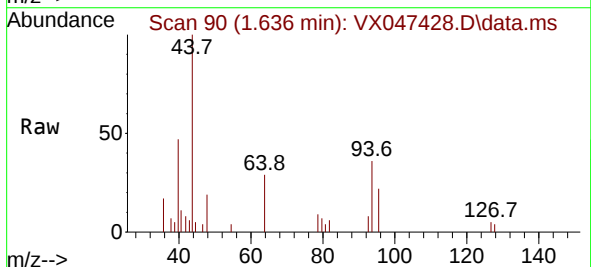
Instrument :
MSVOA_X
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VX0820MBL01

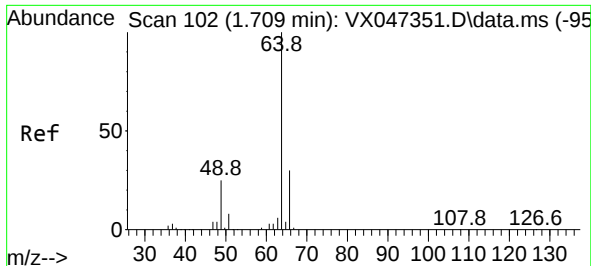
Tgt Ion:168 Resp: 162923
Ion Ratio Lower Upper
168 100
99 63.9 47.9 71.9



#5
Bromomethane
Concen: 0.866 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.006 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

Tgt Ion: 94 Resp: 820
Ion Ratio Lower Upper
94 100
96 0.0 74.7 112.1#

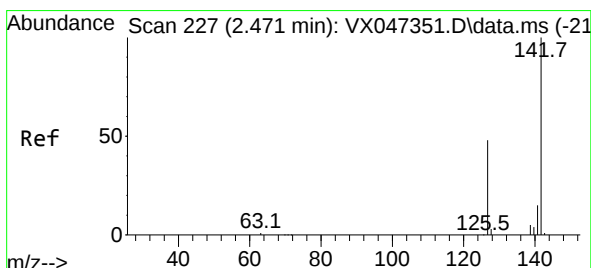
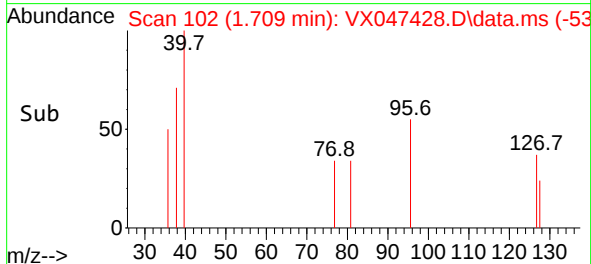
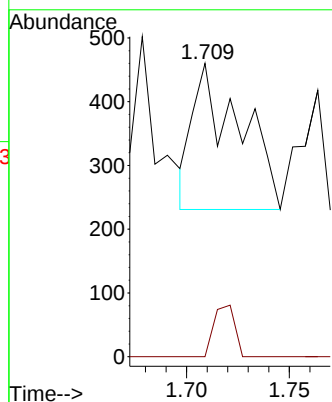
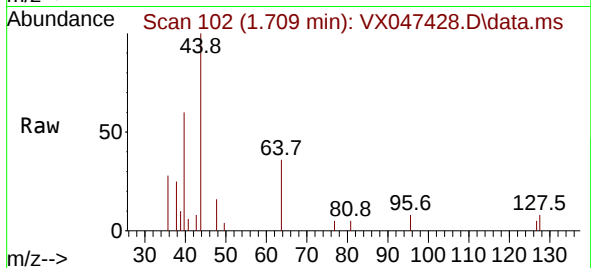




#6
Chloroethane
Concen: 0.254 ug/l
RT: 1.709 min Scan# 102
Delta R.T. 0.000 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

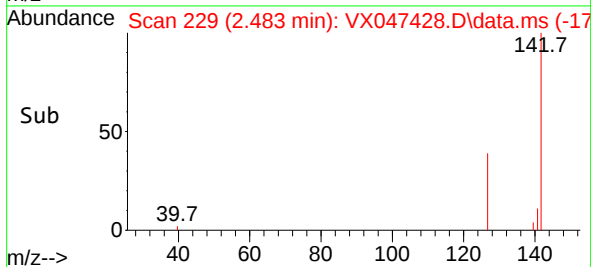
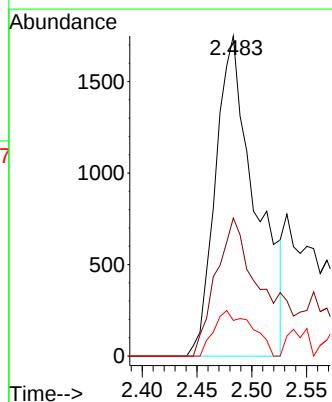
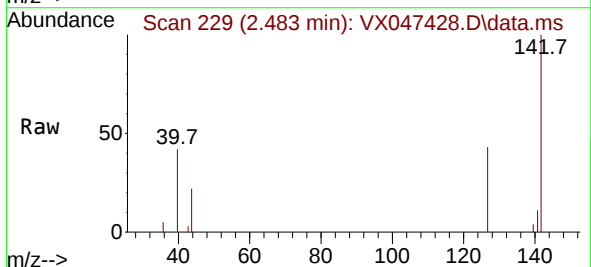
Instrument :
MSVOA_X
ClientSampleId :
VX0820MBL01

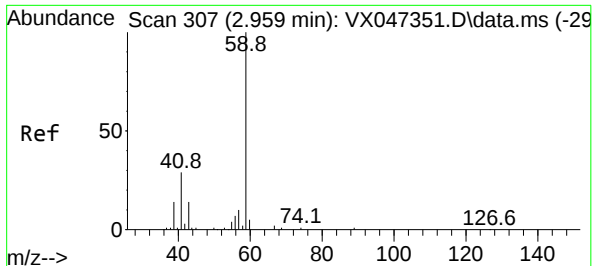
Tgt Ion: 64 Resp: 365
Ion Ratio Lower Upper
64 100
66 0.0 24.4 36.6#



#10
Methyl Iodide
Concen: 1.286 ug/l
RT: 2.483 min Scan# 229
Delta R.T. 0.012 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

Tgt Ion:142 Resp: 4433
Ion Ratio Lower Upper
142 100
127 50.0 36.1 54.1
141 13.5 11.1 16.7





#11

Tert butyl alcohol

Concen: 0.771 ug/l

RT: 2.971 min Scan# 307

Delta R.T. 0.012 min

Lab File: VX047428.D

Acq: 20 Aug 2025 09:46

Instrument :

MSVOA_X

ClientSampleId :

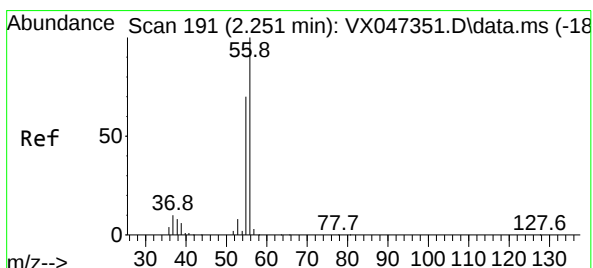
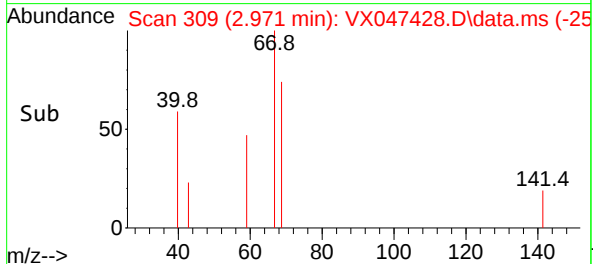
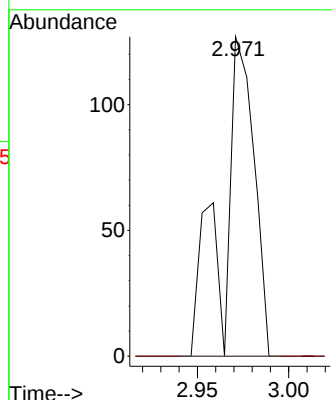
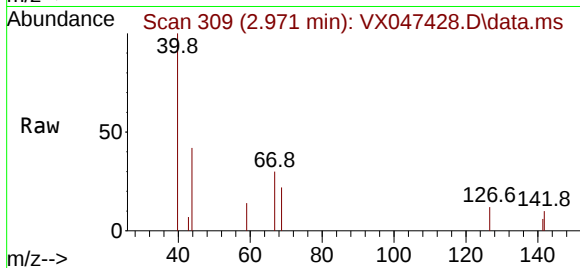
VX0820MBL01

Tgt Ion: 59 Resp: 153

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: 0.246 ug/l

RT: 2.258 min Scan# 192

Delta R.T. 0.006 min

Lab File: VX047428.D

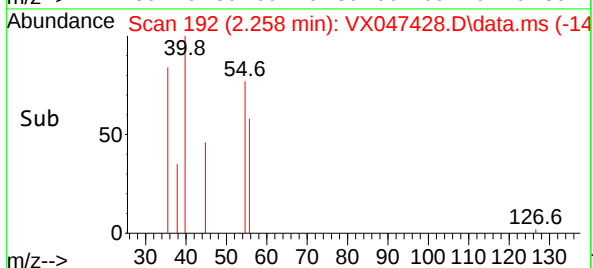
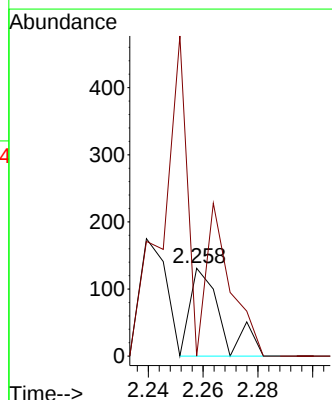
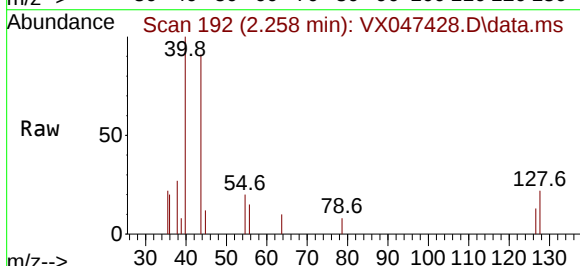
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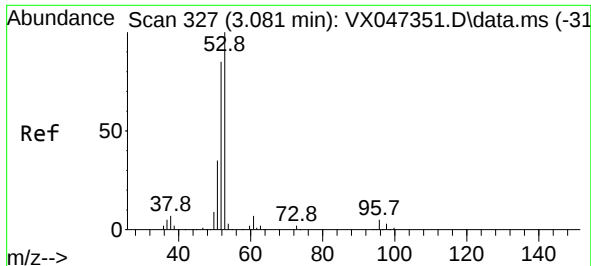
Tgt Ion: 56 Resp: 103

Ion Ratio Lower Upper

56 100

55 448.5 55.5 83.3#

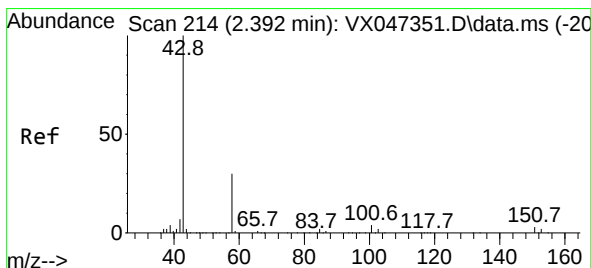
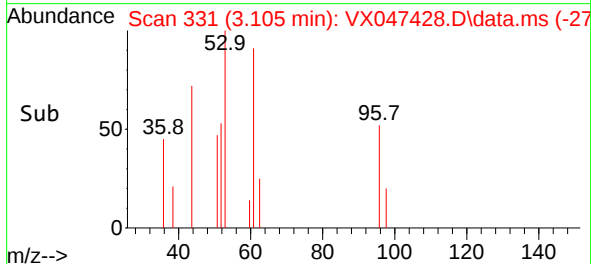
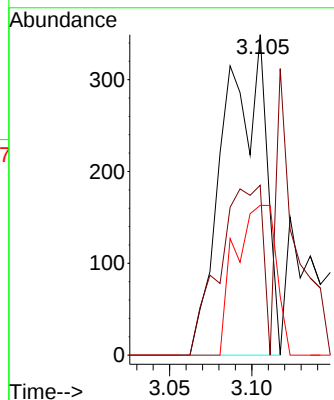
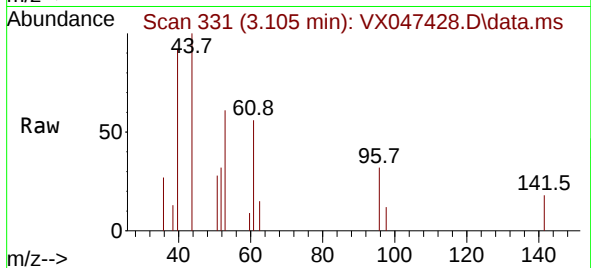




#15
Acrylonitrile
Concen: 0.644 ug/l
RT: 3.105 min Scan# 31
Delta R.T. 0.024 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

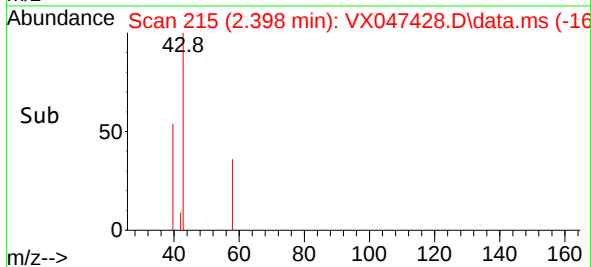
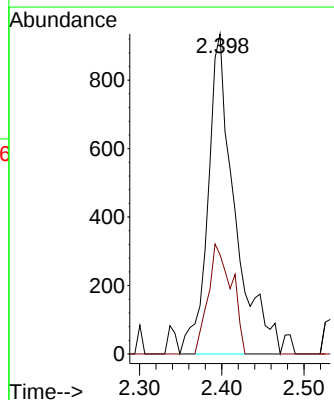
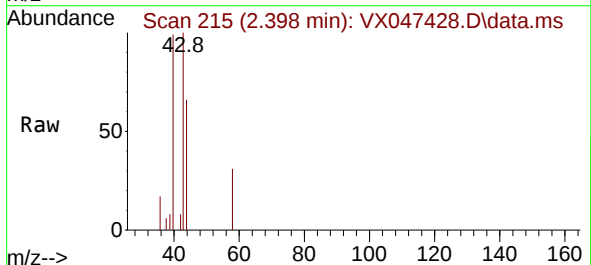
Instrument :
MSVOA_X
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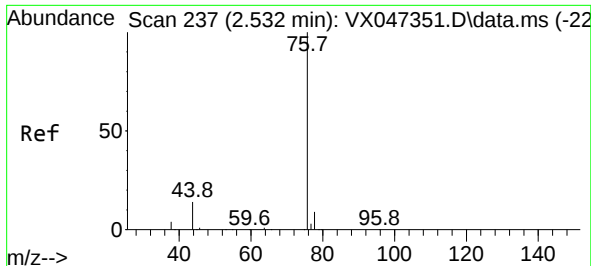
Tgt Ion: 53 Resp: 617
Ion Ratio Lower Upper
53 100
52 54.5 65.8 98.6#
51 45.7 28.2 42.2#



#16
Acetone
Concen: 2.474 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

Tgt Ion: 43 Resp: 2120
Ion Ratio Lower Upper
43 100
58 121.8 24.8 37.2#





#17

Carbon Disulfide

Concen: 0.654 ug/l

RT: 2.532 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX047428.D

Acq: 20 Aug 2025 09:46

Instrument :

MSVOA_X

ClientSampleId :

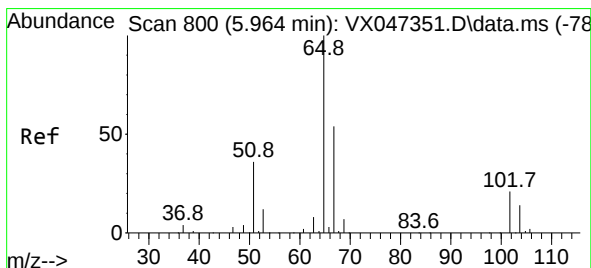
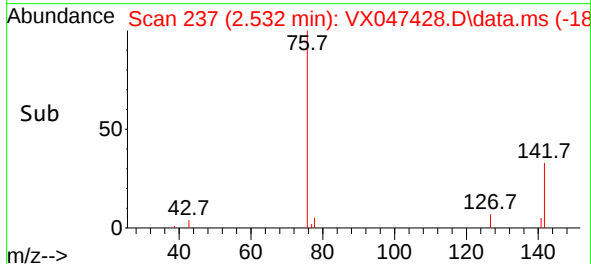
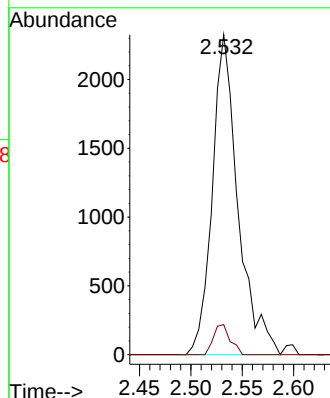
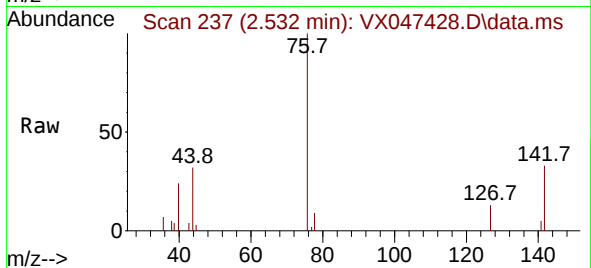
VX0820MBL01

Tgt Ion: 76 Resp: 4048

Ion Ratio Lower Upper

76 100

78 9.4 7.2 10.8



#33

1,2-Dichloroethane-d4

Concen: 60.829 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047428.D

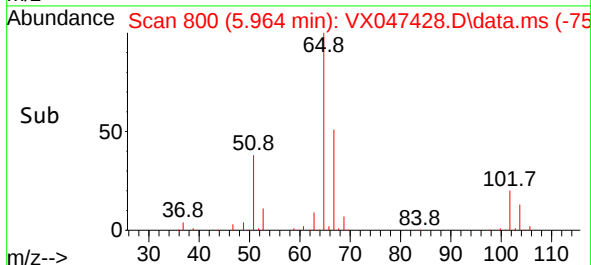
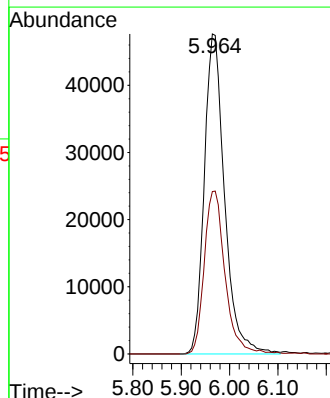
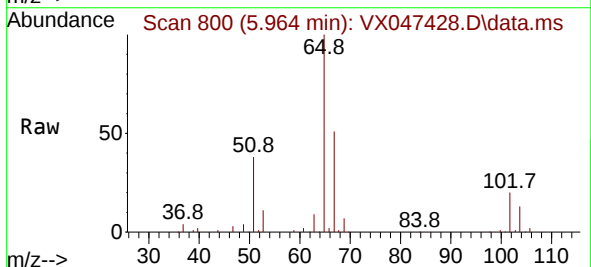
Acq: 20 Aug 2025 09:46

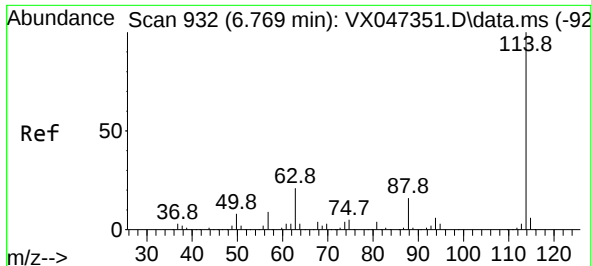
Tgt Ion: 65 Resp: 138699

Ion Ratio Lower Upper

65 100

67 52.2 0.0 106.0

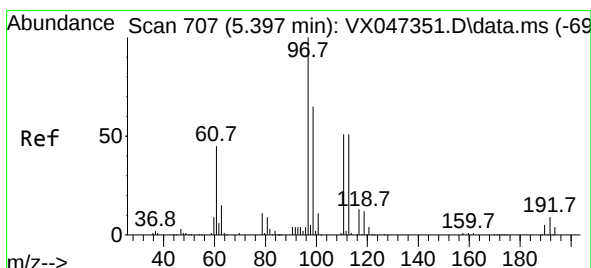
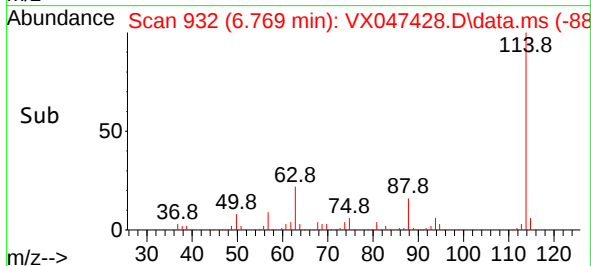
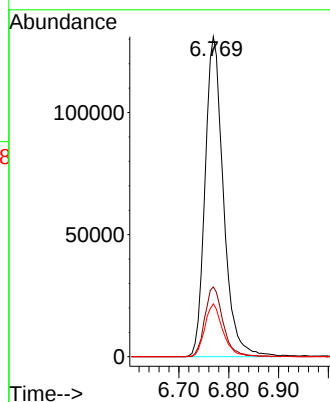
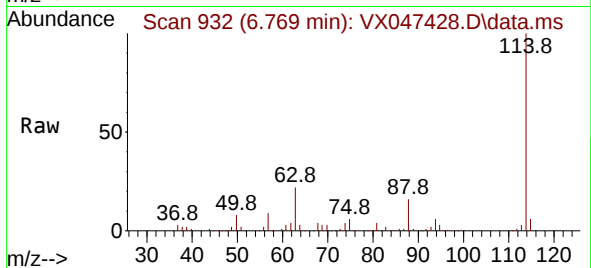




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

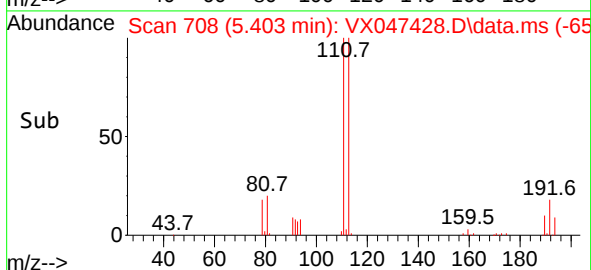
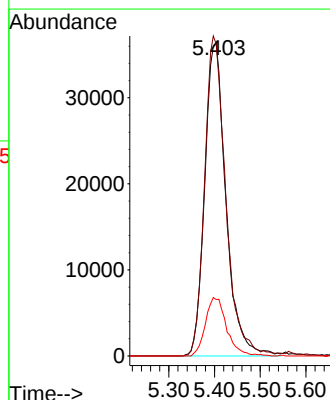
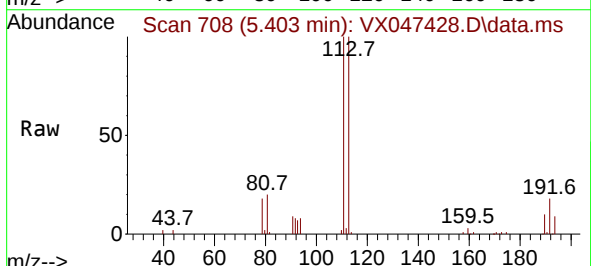
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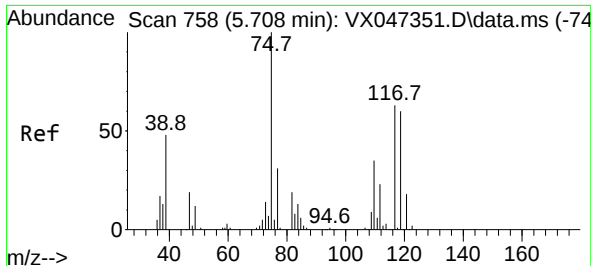
Tgt Ion:114 Resp: 335236
Ion Ratio Lower Upper
114 100
63 21.8 0.0 42.4
88 16.5 0.0 33.0



#35
Dibromofluoromethane
Concen: 54.008 ug/l
RT: 5.403 min Scan# 708
Delta R.T. 0.006 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

Tgt Ion:113 Resp: 117506
Ion Ratio Lower Upper
113 100
111 101.9 81.4 122.2
192 18.7 14.1 21.1

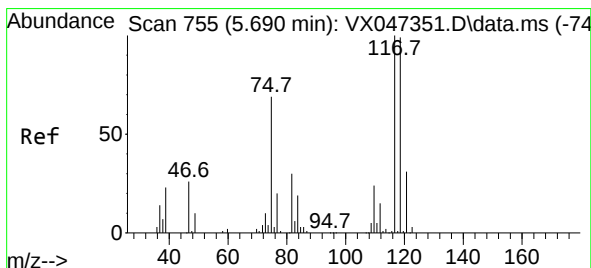
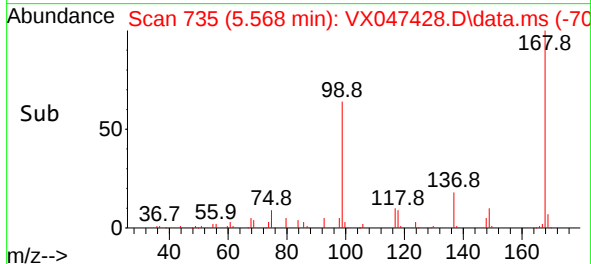
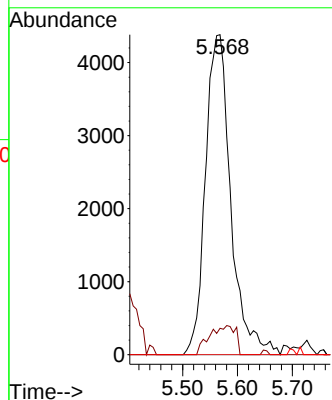
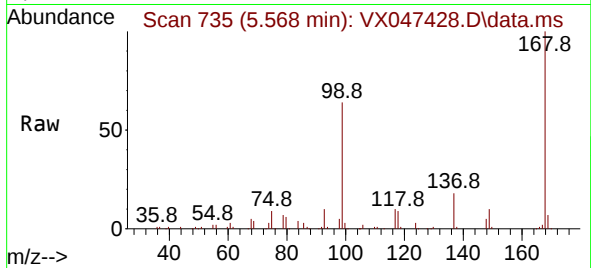




#36
1,1-Dichloropropene
Concen: 4.085 ug/l
RT: 5.568 min Scan# 714
Delta R.T. -0.140 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

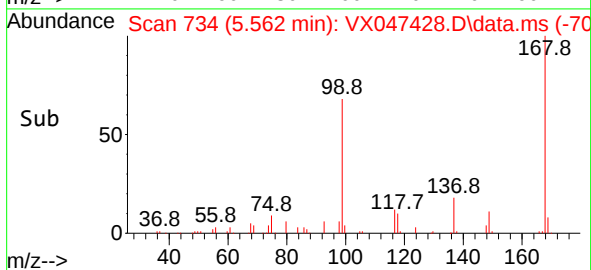
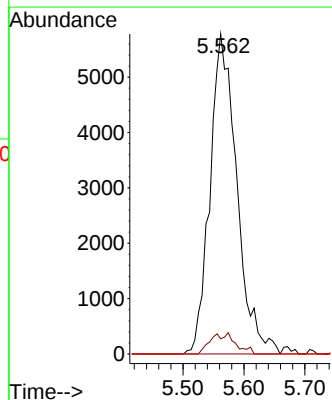
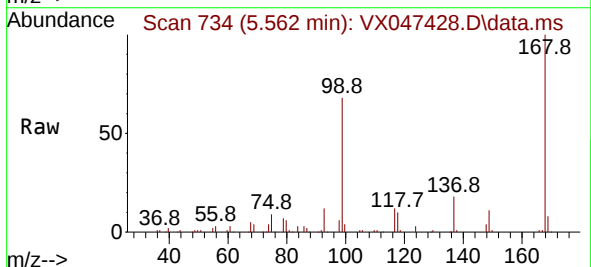
Instrument :
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ClientSampleId :
VX0820MBL01

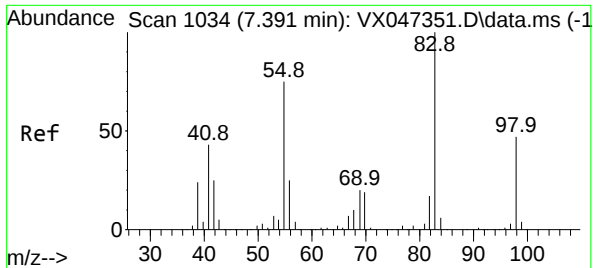
Tgt Ion: 75 Resp: 14029
Ion Ratio Lower Upper
75 100
110 9.4 17.4 52.2#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 4.707 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.128 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

Tgt Ion: 117 Resp: 17666
Ion Ratio Lower Upper
117 100
119 4.8 78.5 117.7#
121 0.0 24.7 37.1#

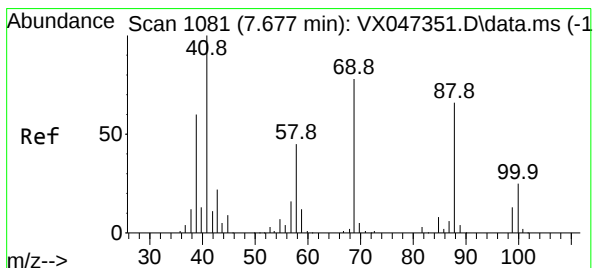
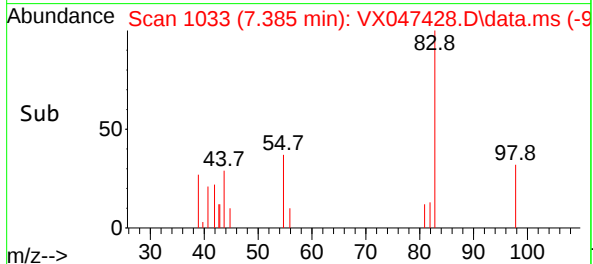
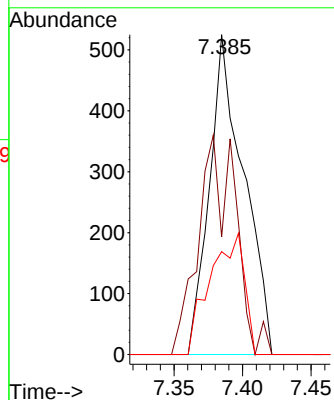
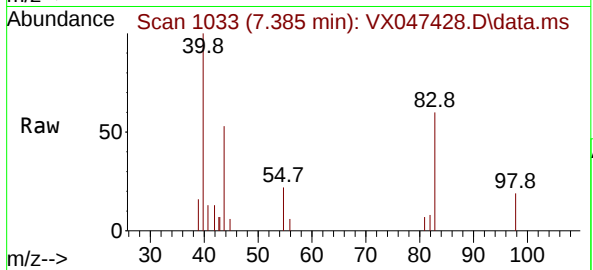




#39
Methylcyclohexane
Concen: 0.213 ug/l
RT: 7.385 min Scan# 1033
Delta R.T. -0.006 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

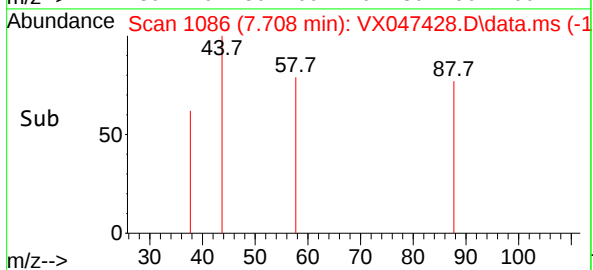
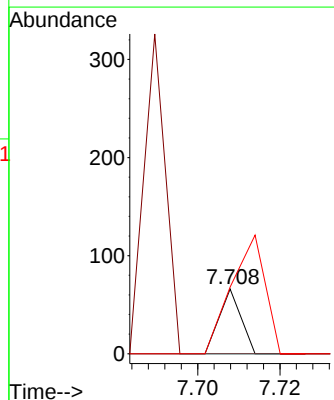
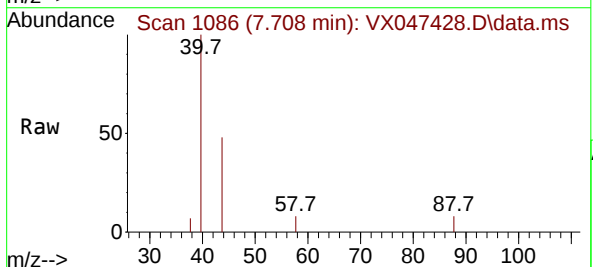
Instrument :
MSVOA_X
ClientSampleId :
VX0820MBL01

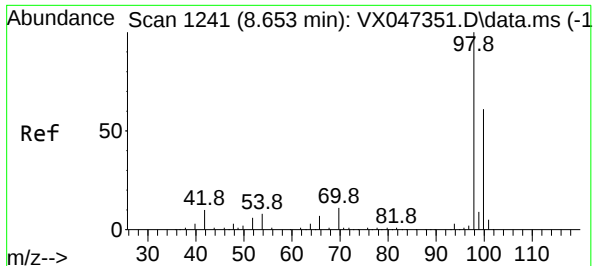
Tgt Ion: 83 Resp: 913
Ion Ratio Lower Upper
83 100
55 36.8 60.0 90.0#
98 32.2 37.2 55.8#



#49
1,4-Dioxane
Concen: 0.929 ug/l
RT: 7.708 min Scan# 1086
Delta R.T. 0.031 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

Tgt Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 0.0 32.4 48.6#
58 287.5 56.9 85.3#

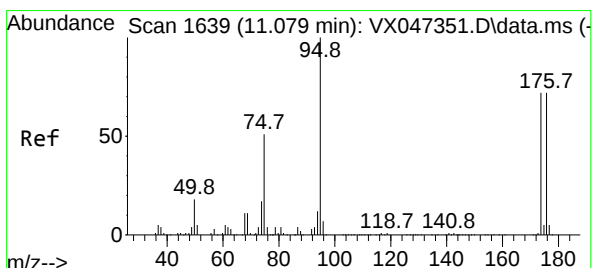
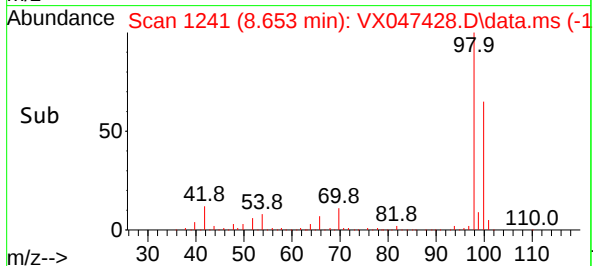
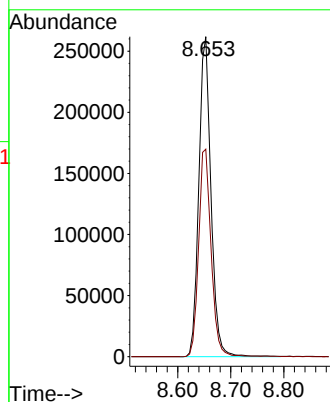
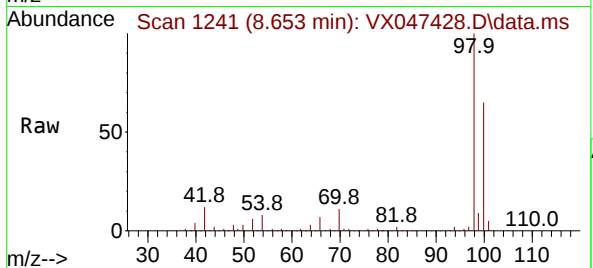




#50
Toluene-d8
Concen: 53.345 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

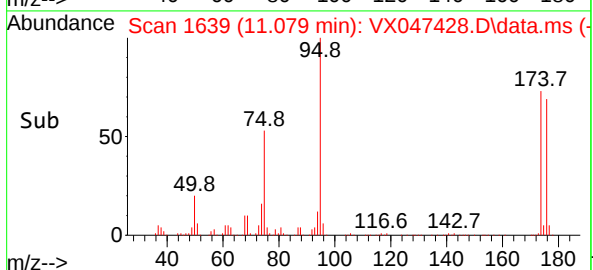
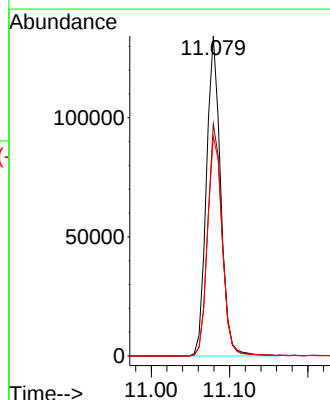
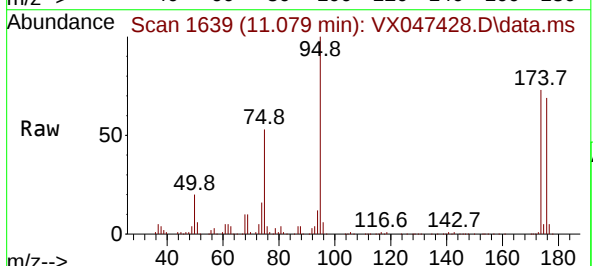
Instrument :
MSVOA_X
ClientSampleId :
VX0820MBL01

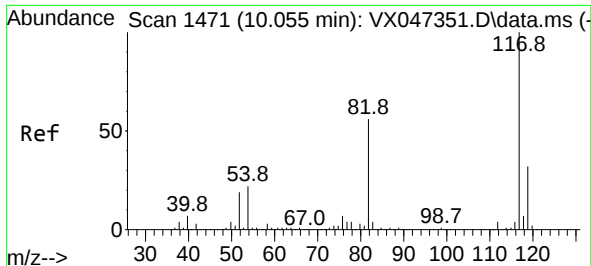
Tgt Ion: 98 Resp: 414838
Ion Ratio Lower Upper
98 100
100 66.6 53.9 80.9



#62
4-Bromofluorobenzene
Concen: 58.758 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

Tgt Ion: 95 Resp: 168618
Ion Ratio Lower Upper
95 100
174 73.6 0.0 148.0
176 71.4 0.0 145.4

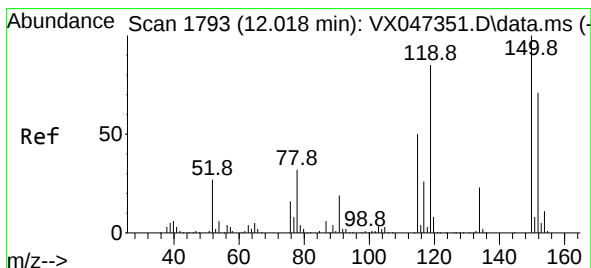
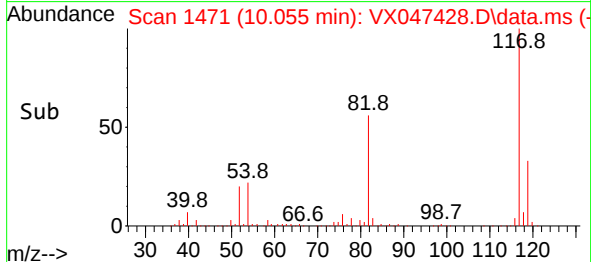
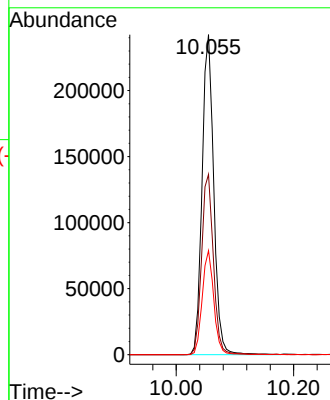
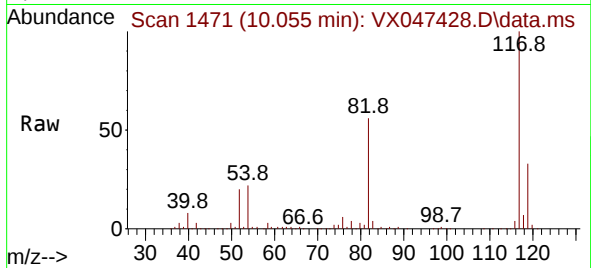




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

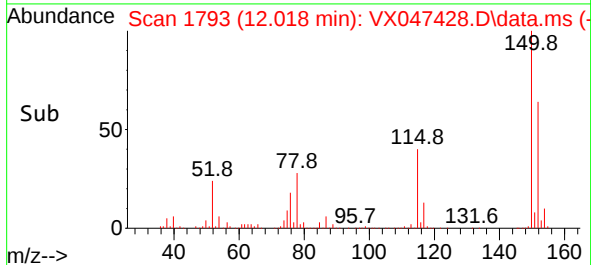
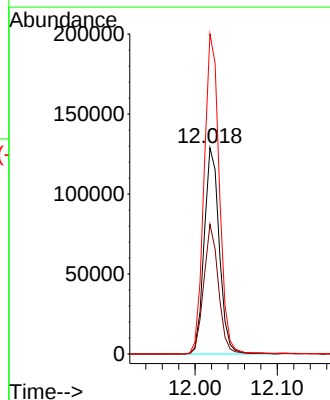
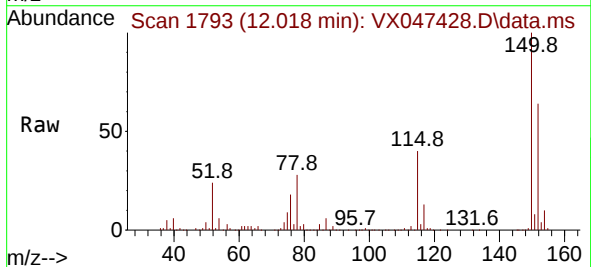
Instrument :
MSVOA_X
ClientSampleId :
VX0820MBL01

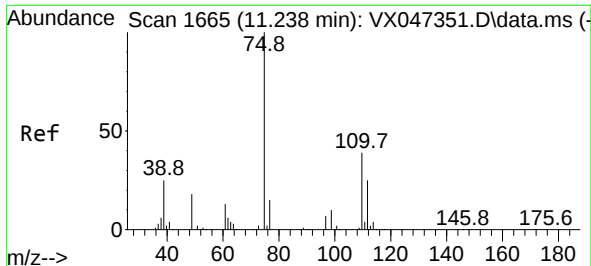
Tgt Ion:117 Resp: 332362
Ion Ratio Lower Upper
117 100
82 56.3 45.0 67.4
119 32.5 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

Tgt Ion:152 Resp: 164295
Ion Ratio Lower Upper
152 100
115 61.1 44.6 133.8
150 157.1 0.0 349.8

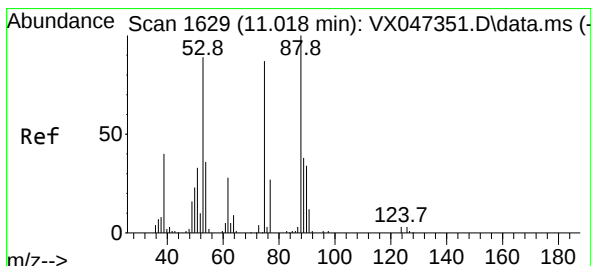
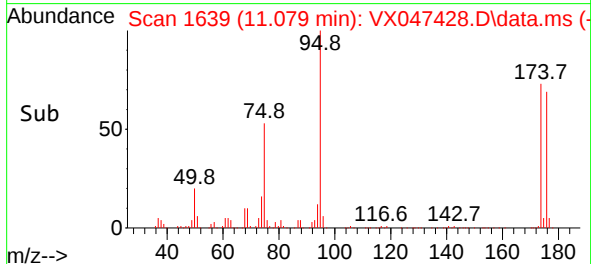
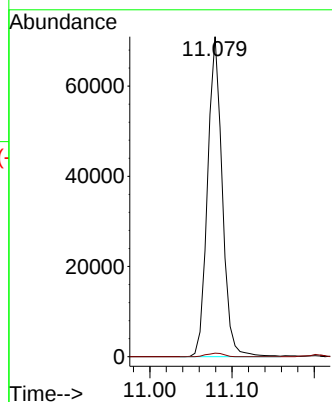
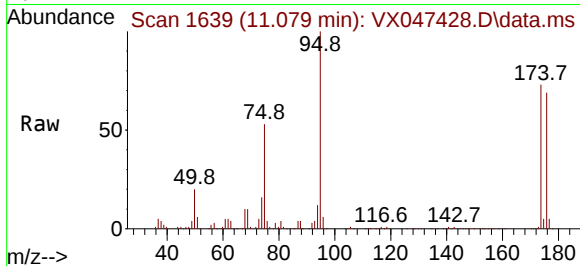




#76
1,2,3-Trichloropropane
Concen: 29.208 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

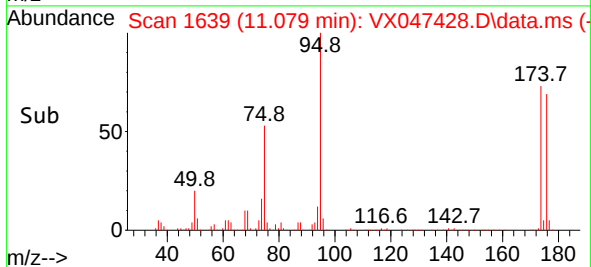
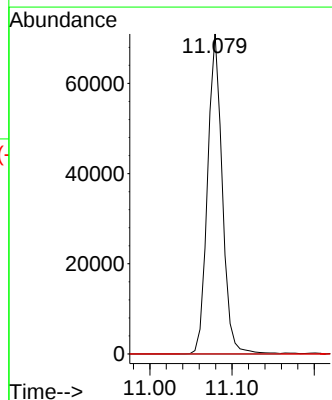
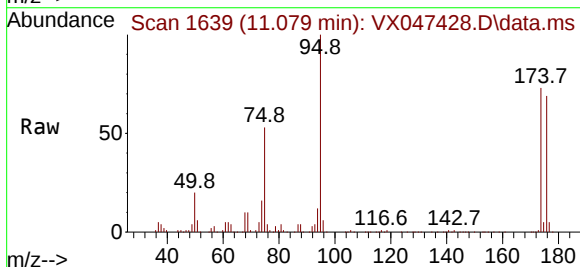
Instrument :
MSVOA_X
ClientSampleId :
VX0820MBL01

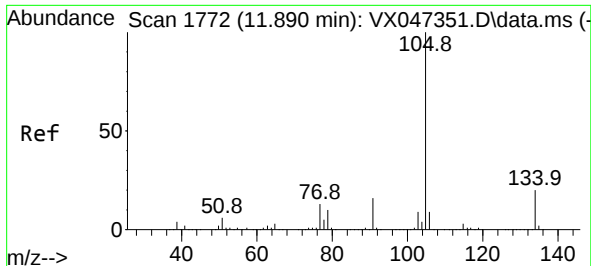
Tgt Ion: 75 Resp: 88013
Ion Ratio Lower Upper
75 100
77 1.3 19.4 58.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 114.855 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

Tgt Ion: 75 Resp: 88013
Ion Ratio Lower Upper
75 100
53 0.0 85.2 127.8#
89 0.0 36.7 55.1#

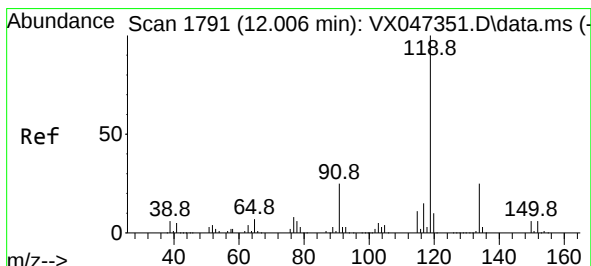
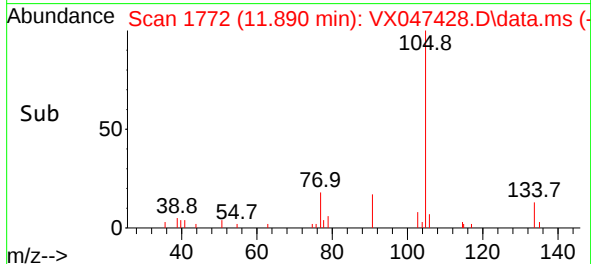
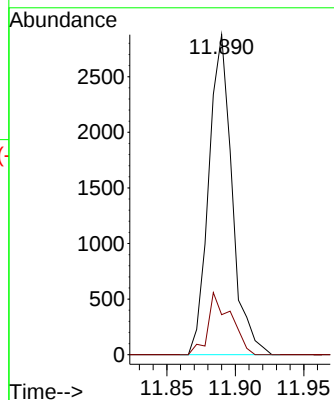
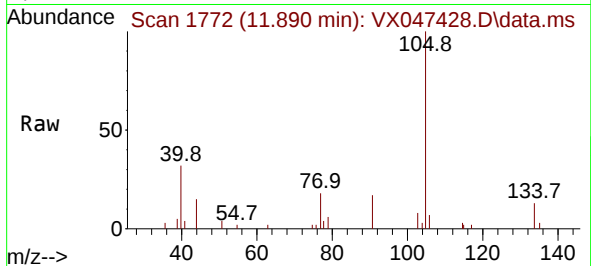




#85
 sec-Butylbenzene
 Concen: 0.260 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: VX047428.D
 Acq: 20 Aug 2025 09:46

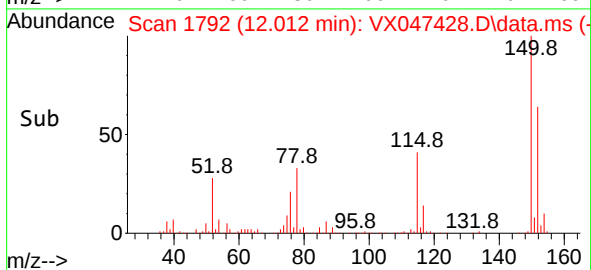
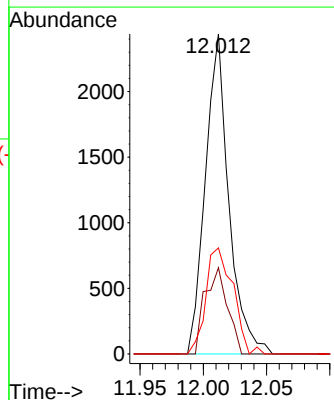
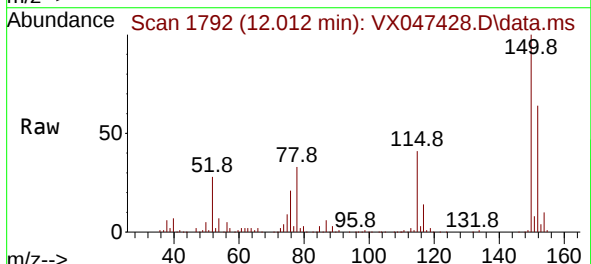
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0820MBL01

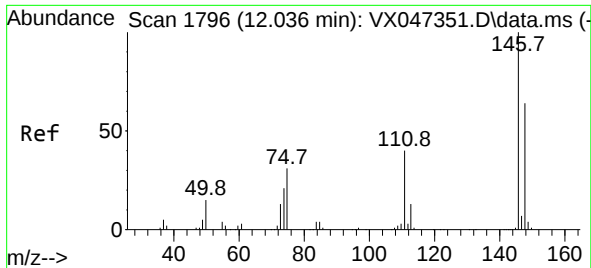
Tgt Ion:105 Resp: 3401
 Ion Ratio Lower Upper
 105 100
 134 19.0 9.8 29.5



#86
 p-Isopropyltoluene
 Concen: 0.284 ug/l
 RT: 12.012 min Scan# 1792
 Delta R.T. 0.006 min
 Lab File: VX047428.D
 Acq: 20 Aug 2025 09:46

Tgt Ion:119 Resp: 3146
 Ion Ratio Lower Upper
 119 100
 134 25.9 12.8 38.4
 91 38.3 12.4 37.4#

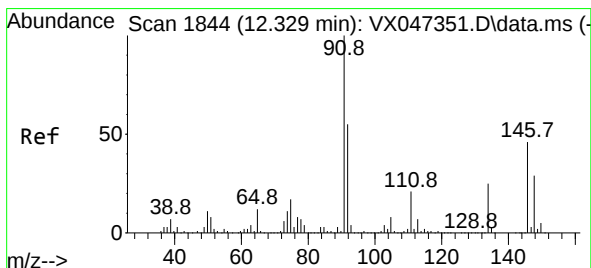
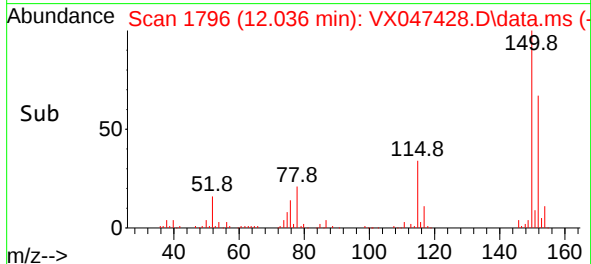
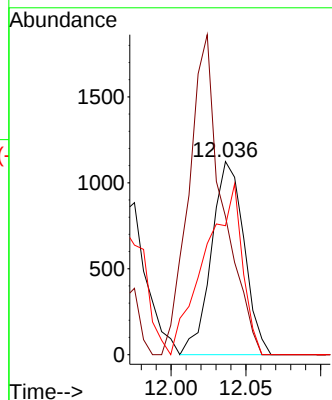
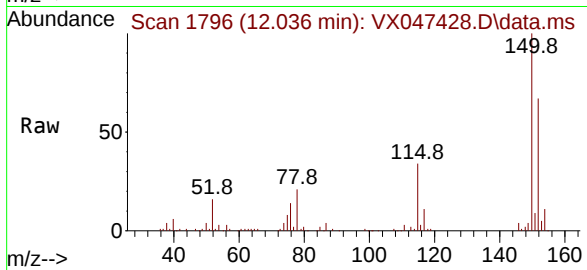




#88
1,4-Dichlorobenzene
Concen: 0.277 ug/l
RT: 12.036 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

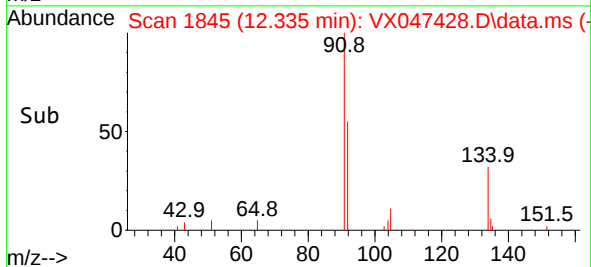
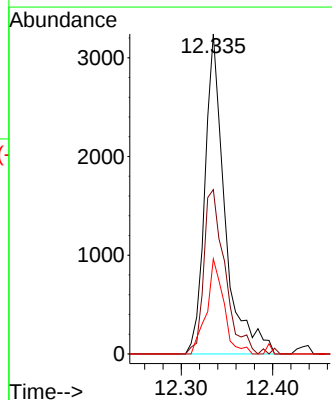
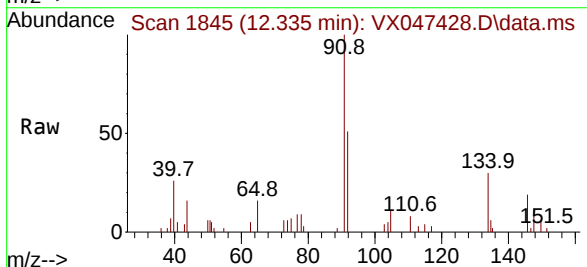
Instrument :
MSVOA_X
ClientSampleId :
VX0820MBL01

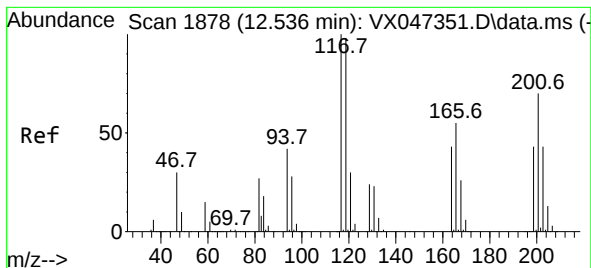
Tgt Ion:146 Resp: 1708
Ion Ratio Lower Upper
146 100
111 171.4 20.4 61.2#
148 100.9 31.7 95.1#



#89
n-Butylbenzene
Concen: 0.480 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX047428.D
Acq: 20 Aug 2025 09:46

Tgt Ion: 91 Resp: 4938
Ion Ratio Lower Upper
91 100
92 53.7 27.2 81.5
134 25.5 12.6 37.8





#90

Hexachloroethane

Concen: 0.211 ug/l

RT: 12.536 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047428.D

Acq: 20 Aug 2025 09:46

Instrument :

MSVOA_X

ClientSampleId :

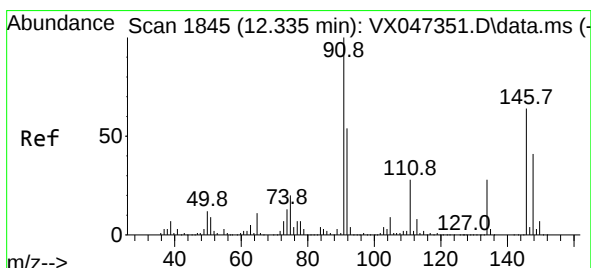
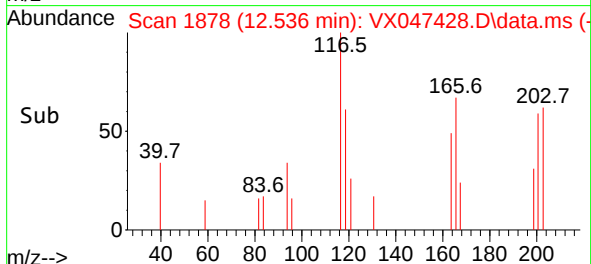
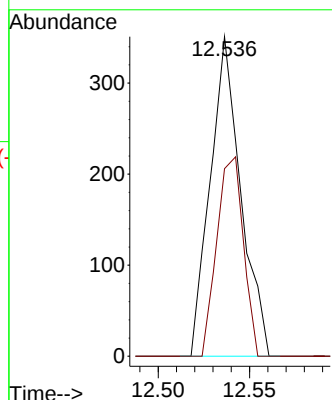
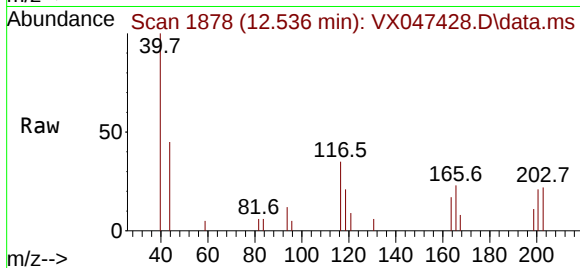
VX0820MBL01

Tgt Ion:117 Resp: 409

Ion Ratio Lower Upper

117 100

201 54.0 35.1 105.3



#91

1,2-Dichlorobenzene

Concen: 0.214 ug/l

RT: 12.341 min Scan# 1846

Delta R.T. 0.006 min

Lab File: VX047428.D

Acq: 20 Aug 2025 09:46

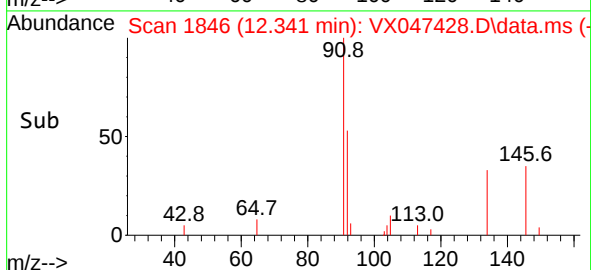
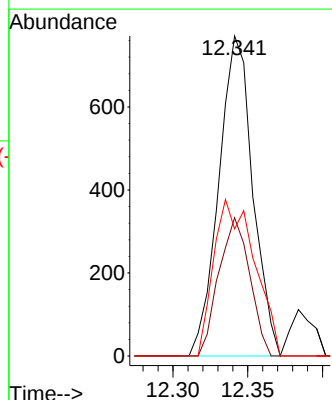
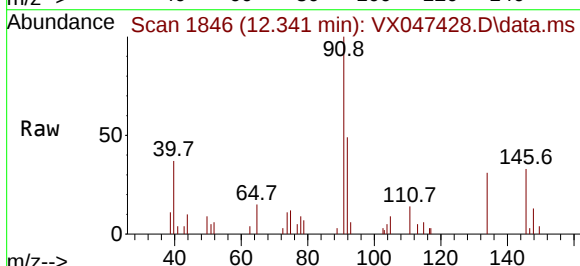
Tgt Ion:146 Resp: 1218

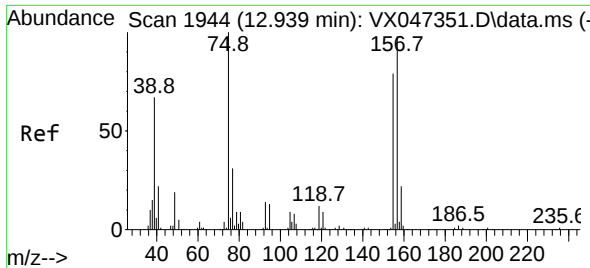
Ion Ratio Lower Upper

146 100

111 39.3 22.1 66.1

148 58.7 31.9 95.5

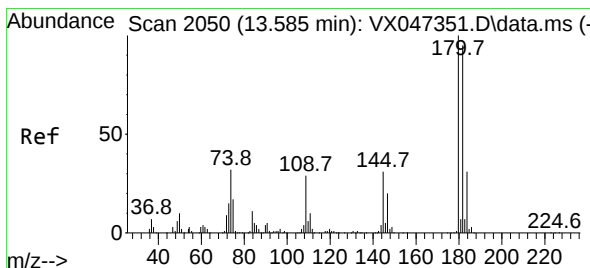
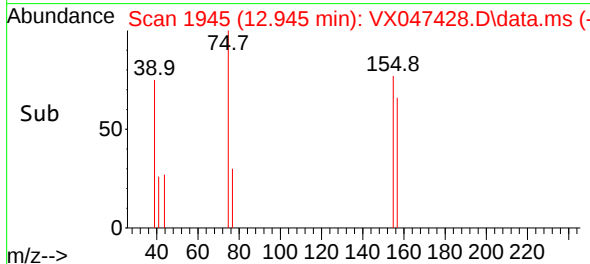
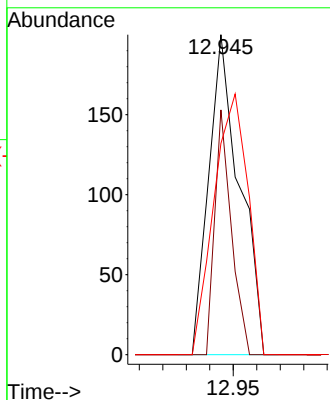
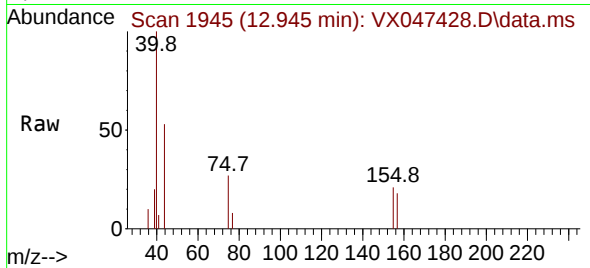




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.249 ug/l
 RT: 12.945 min Scan# 1945
 Delta R.T. 0.006 min
 Lab File: VX047428.D
 Acq: 20 Aug 2025 09:46

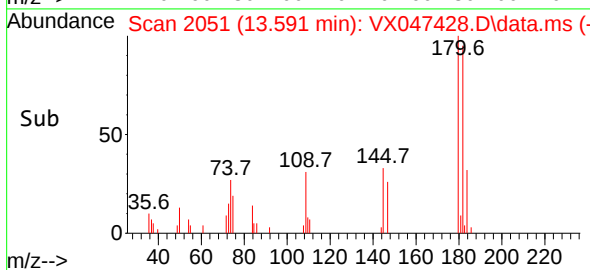
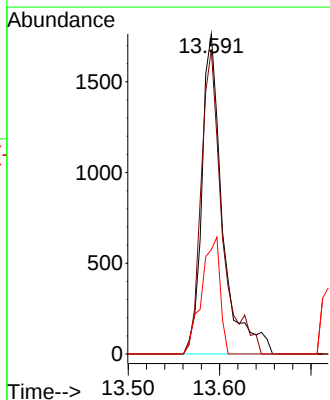
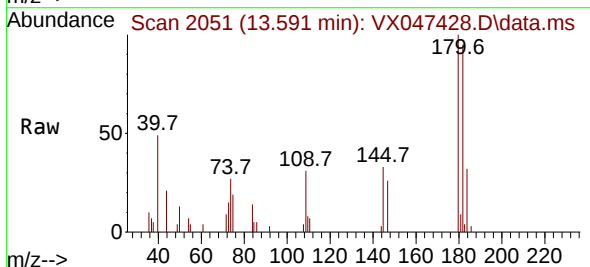
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0820MBL01

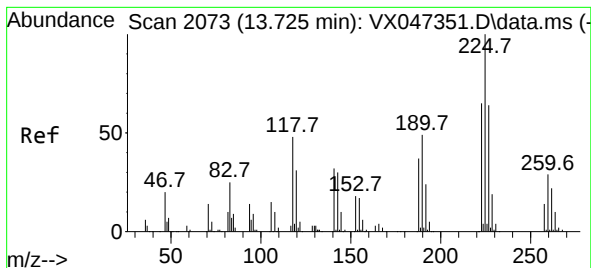
Tgt Ion: 75 Resp: 182
 Ion Ratio Lower Upper
 75 100
 155 41.2 41.3 123.7#
 157 90.7 51.5 154.5



#93
 1,2,4-Trichlorobenzene
 Concen: 0.723 ug/l
 RT: 13.591 min Scan# 2051
 Delta R.T. 0.006 min
 Lab File: VX047428.D
 Acq: 20 Aug 2025 09:46

Tgt Ion: 180 Resp: 2758
 Ion Ratio Lower Upper
 180 100
 182 96.4 48.1 144.4
 145 32.8 16.2 48.5





#94

Hexachlorobutadiene

Concen: 3.072 ug/l

RT: 13.719 min Scan# 2073

Delta R.T. -0.006 min

Lab File: VX047428.D

Acq: 20 Aug 2025 09:46

Instrument :

MSVOA_X

ClientSampleId :

VX0820MBL01

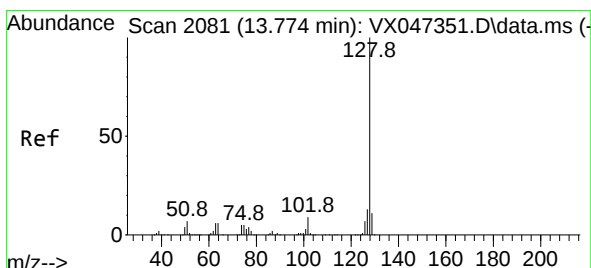
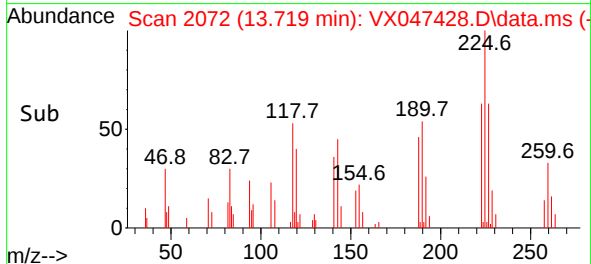
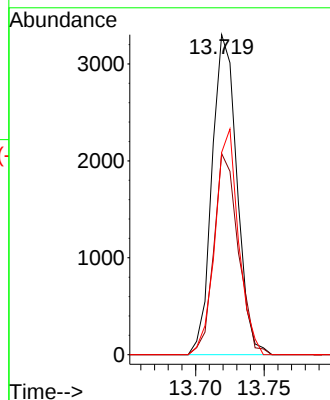
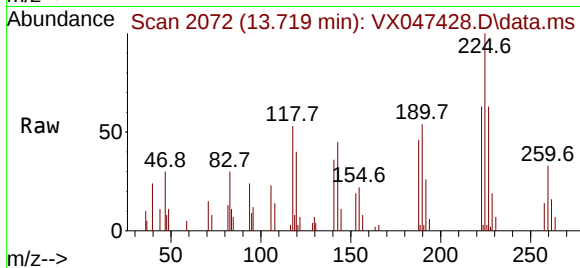
Tgt Ion:225 Resp: 4173

Ion Ratio Lower Upper

225 100

223 61.8 32.2 96.6

227 66.4 31.6 95.0



#95

Naphthalene

Concen: 0.661 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX047428.D

Acq: 20 Aug 2025 09:46

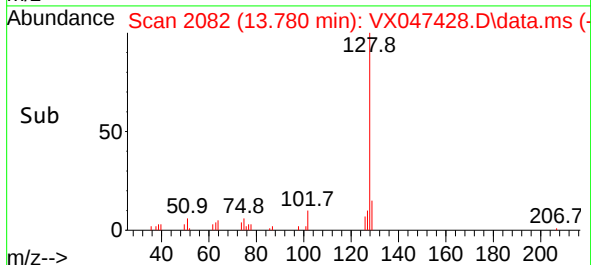
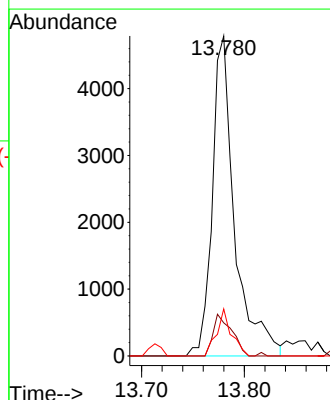
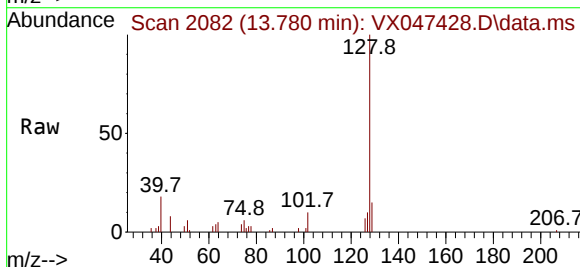
Tgt Ion:128 Resp: 7211

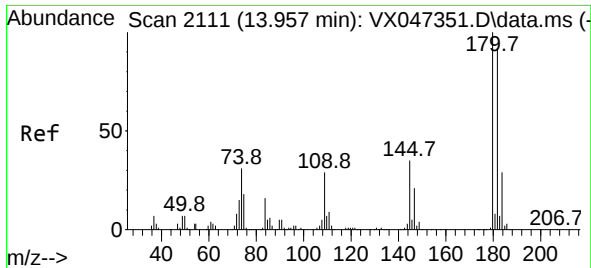
Ion Ratio Lower Upper

128 100

127 10.9 10.1 15.1

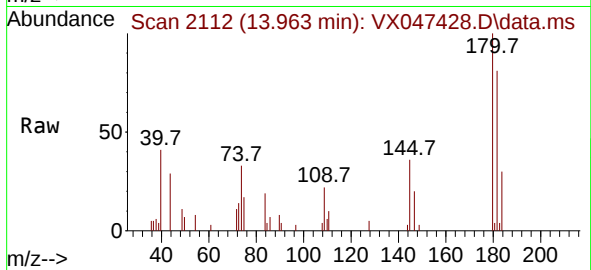
129 9.8 8.7 13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.803 ug/l
 RT: 13.963 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VX047428.D
 Acq: 20 Aug 2025 09:46

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0820MBL01



Tgt Ion:	180	Resp:	2889
Ion	Ratio	Lower	Upper
180	100		
182	91.0	48.0	144.2
145	29.7	17.4	52.2

