

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
 Data File : VX047404.D
 Acq On : 19 Aug 2025 12:16
 Operator : JC/MD
 Sample : Q2815-11RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-22M-W

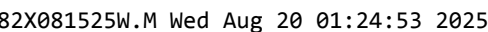
Quant Time: Aug 20 01:24:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

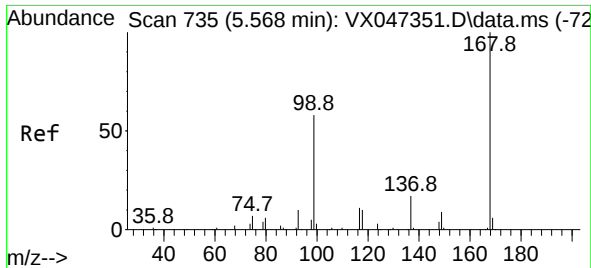
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.562	168	192034	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	380026	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	374792	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	186642	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	143693	53.466	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 106.940%			
35) Dibromofluoromethane	5.397	113	120767	48.965	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.920%			
50) Toluene-d8	8.653	98	436381	49.501	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 99.000%			
62) 4-Bromofluorobenzene	11.079	95	174627	53.680	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.360%			
Target Compounds					Qvalue	
3) Chloromethane	1.282	50	18415	8.362	ug/l #	41
6) Chloroethane	1.764	64	2199	1.300	ug/l #	44
10) Methyl Iodide	2.477	142	2095	0.515	ug/l #	89
11) Tert butyl alcohol	2.953	59	916	3.918	ug/l #	72
13) Acrolein	2.245	56	203	0.411	ug/l #	22
15) Acrylonitrile	3.093	53	353	0.312	ug/l #	79
16) Acetone	2.398	43	4402	4.358	ug/l	93
17) Carbon Disulfide	2.532	76	7427	1.018	ug/l	95
18) Methyl Acetate	2.733	43	817	0.312	ug/l #	53
20) Methylene Chloride	2.800	84	1001	0.374	ug/l #	70
36) 1,1-Dichloropropene	5.562	75	15829	4.066	ug/l #	46
38) Carbon Tetrachloride	5.562	117	20476	4.813	ug/l #	15
58) 2-Chloroethyl Vinyl ether	8.494	63	58	8.384	ug/l #	46
76) 1,2,3-Trichloropropane	11.079	75	91002	26.584	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	91002	105.243	ug/l #	7
87) 1,3-Dichlorobenzene	11.975	146	1378	0.202	ug/l	92
89) n-Butylbenzene	12.335	91	3453	0.295	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	2366	0.366	ug/l	91
93) 1,2,4-Trichlorobenzene	13.591	180	1929	0.445	ug/l	94
94) Hexachlorobutadiene	13.725	225	2097	1.359	ug/l	97
95) Naphthalene	13.774	128	3798	0.307	ug/l #	86
96) 1,2,3-Trichlorobenzene	13.963	180	1748	0.428	ug/l #	83

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

Quant Time: Aug 20 01:24:40 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

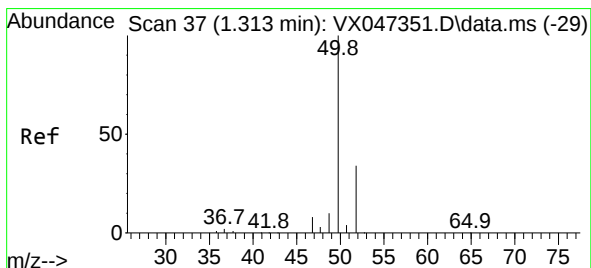
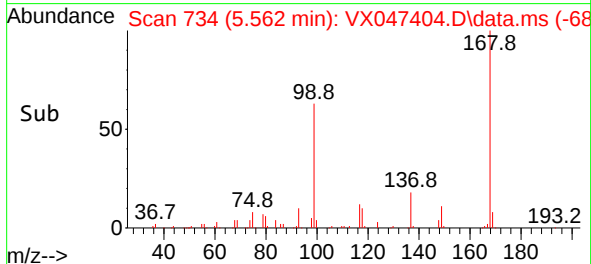
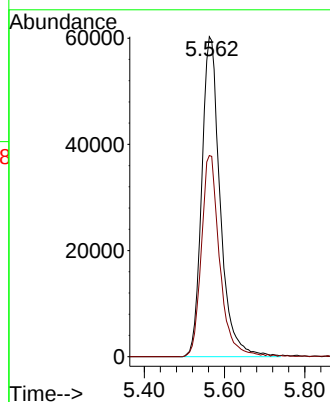
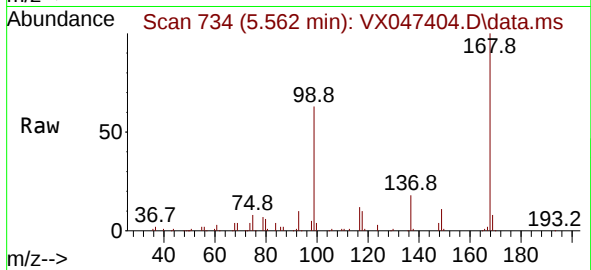




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

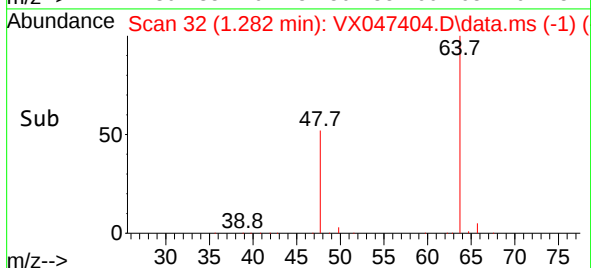
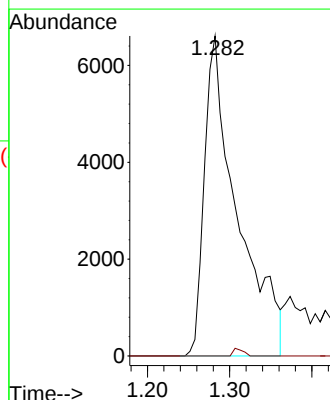
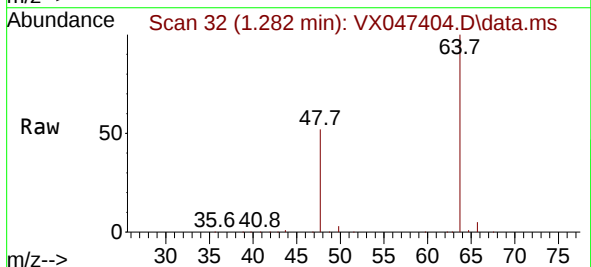
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

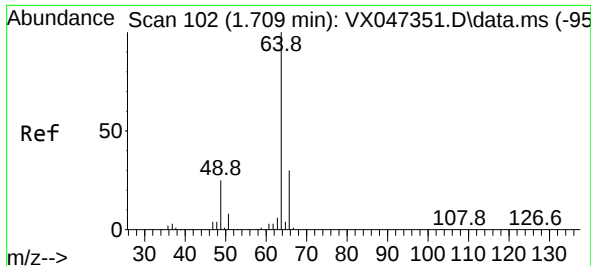
Tgt Ion:168 Resp: 192034
Ion Ratio Lower Upper
168 100
99 62.8 47.9 71.9



#3
Chloromethane
Concen: 8.362 ug/l
RT: 1.282 min Scan# 32
Delta R.T. -0.030 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Tgt Ion: 50 Resp: 18415
Ion Ratio Lower Upper
50 100
52 0.0 27.0 40.4#

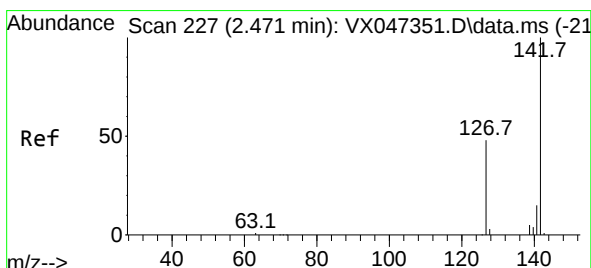
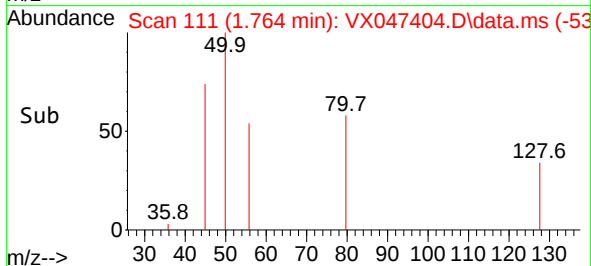
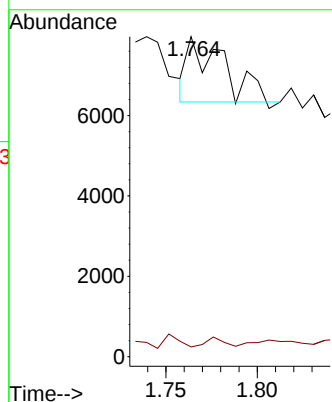
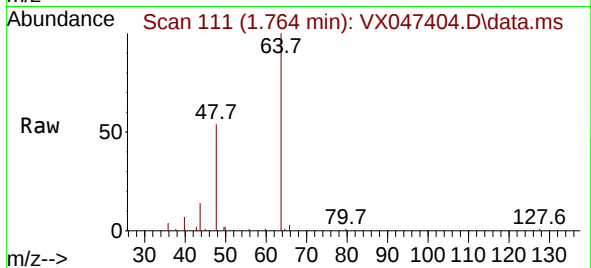




#6
Chloroethane
Concen: 1.300 ug/l
RT: 1.764 min Scan# 11
Delta R.T. 0.055 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

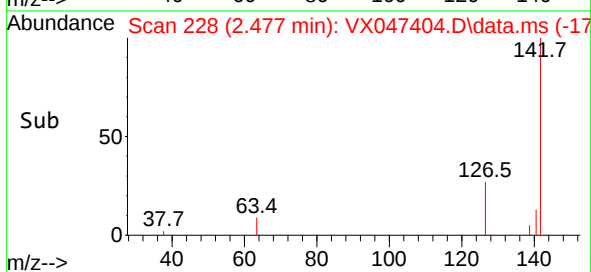
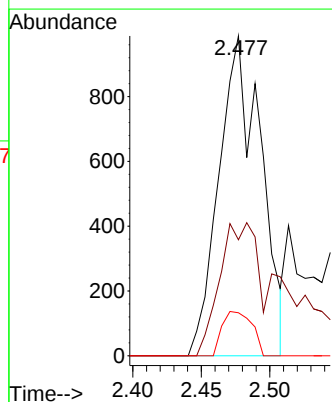
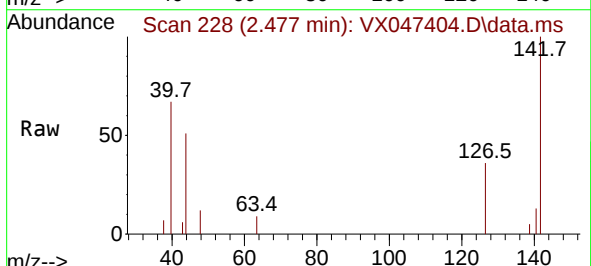
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

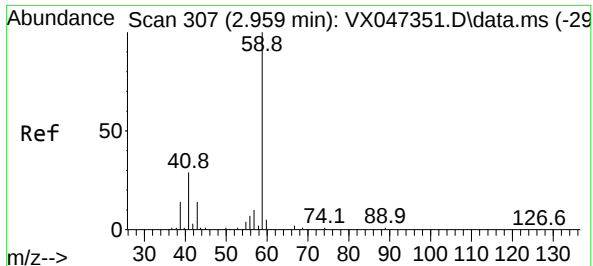
Tgt Ion: 64 Resp: 2199
Ion Ratio Lower Upper
64 100
66 0.0 24.4 36.6#



#10
Methyl Iodide
Concen: 0.515 ug/l
RT: 2.477 min Scan# 228
Delta R.T. 0.006 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Tgt Ion:142 Resp: 2095
Ion Ratio Lower Upper
142 100
127 37.7 36.1 54.1
141 9.9 11.1 16.7#





#11

Tert butyl alcohol

Concen: 3.918 ug/l

RT: 2.953 min Scan# 307

Delta R.T. -0.006 min

Lab File: VX047404.D

Acq: 19 Aug 2025 12:16

Instrument :

MSVOA_X

ClientSampleId :

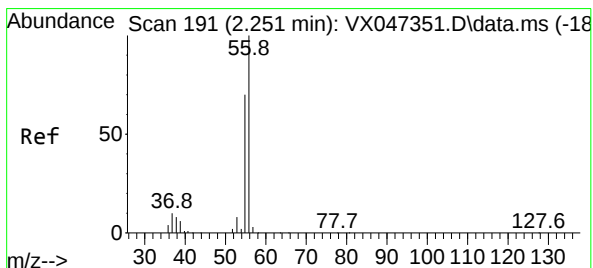
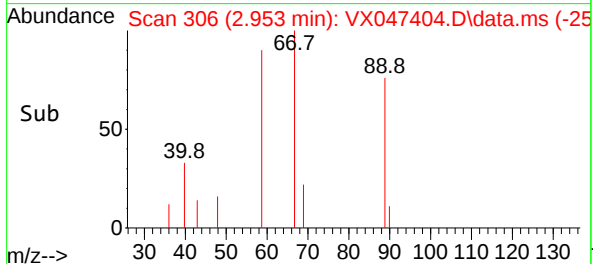
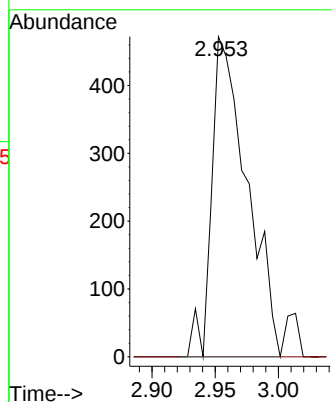
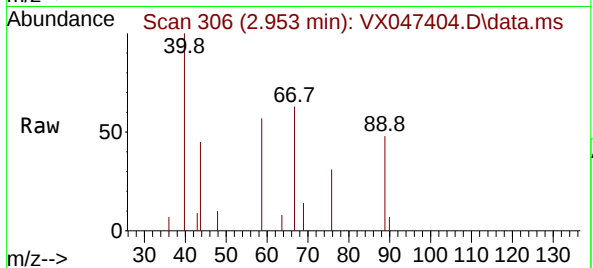
TW-22M-W

Tgt Ion: 59 Resp: 916

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: 0.411 ug/l

RT: 2.245 min Scan# 190

Delta R.T. -0.006 min

Lab File: VX047404.D

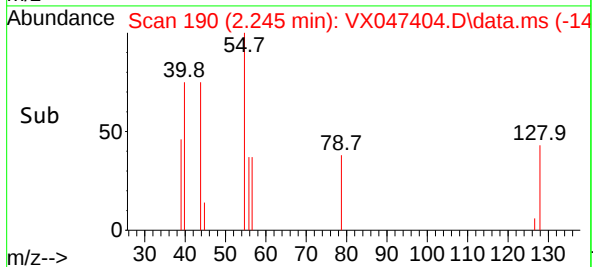
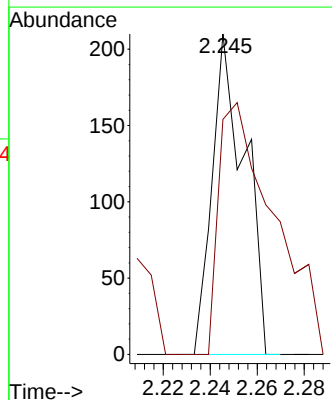
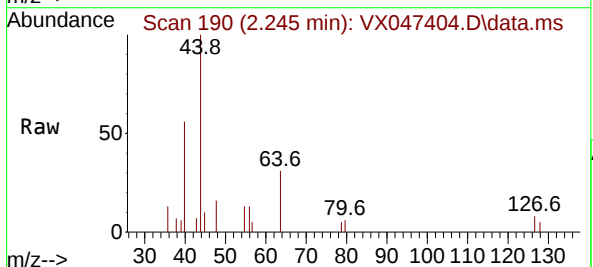
Acq: 19 Aug 2025 12:16

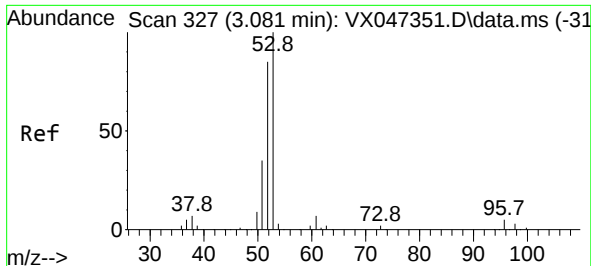
Tgt Ion: 56 Resp: 203

Ion Ratio Lower Upper

56 100

55 133.0 55.5 83.3#

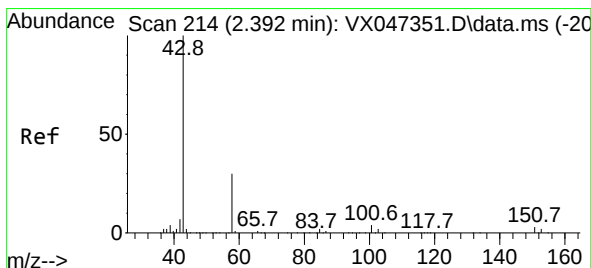
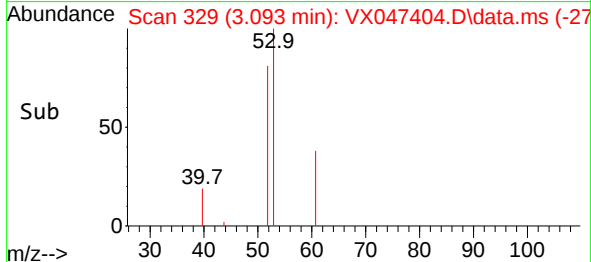
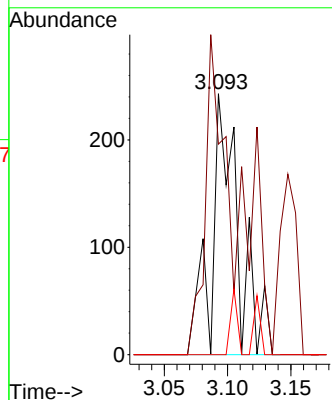
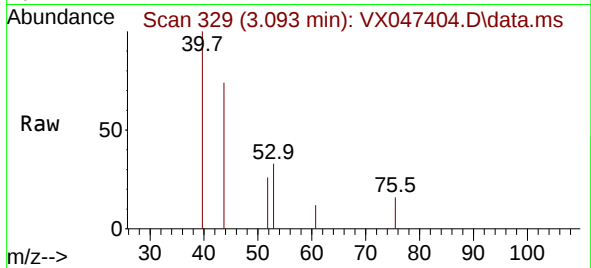




#15
Acrylonitrile
Concen: 0.312 ug/l
RT: 3.093 min Scan# 31
Delta R.T. 0.012 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

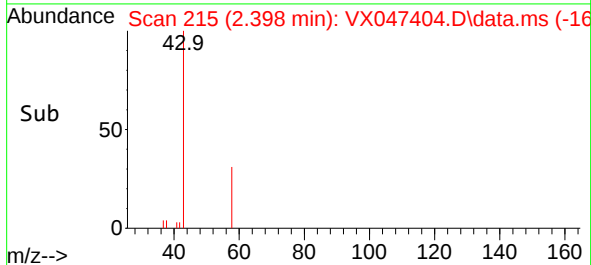
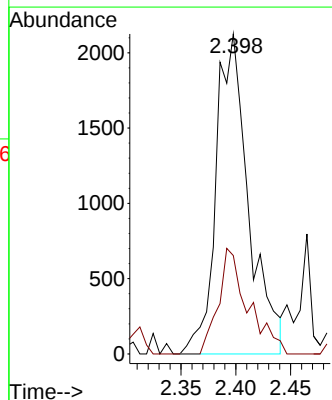
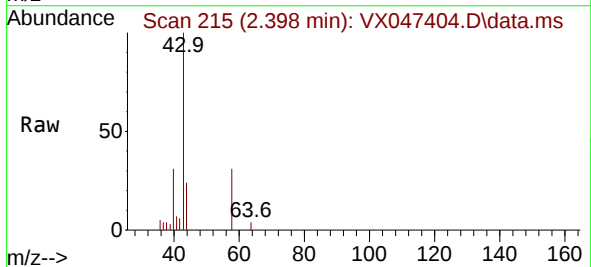
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

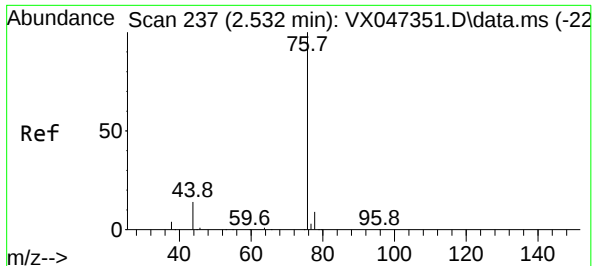
Tgt Ion: 53 Resp: 353
Ion Ratio Lower Upper
53 100
52 90.4 65.8 98.6
51 6.2 28.2 42.2#



#16
Acetone
Concen: 4.358 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Tgt Ion: 43 Resp: 4402
Ion Ratio Lower Upper
43 100
58 34.6 24.8 37.2





#17

Carbon Disulfide

Concen: 1.018 ug/l

RT: 2.532 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX047404.D

Acq: 19 Aug 2025 12:16

Instrument :

MSVOA_X

ClientSampleId :

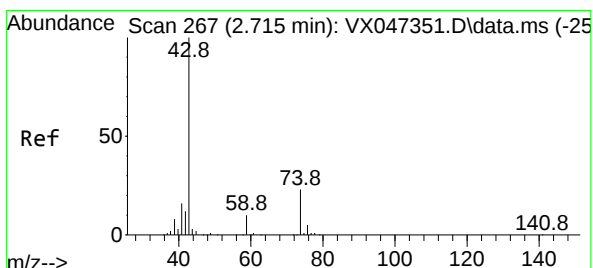
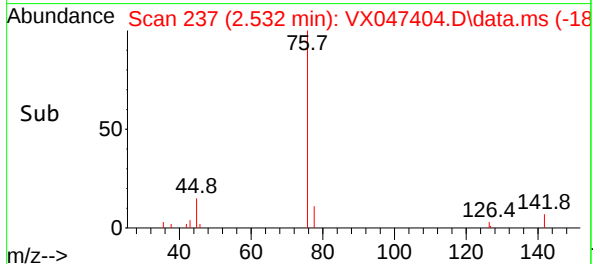
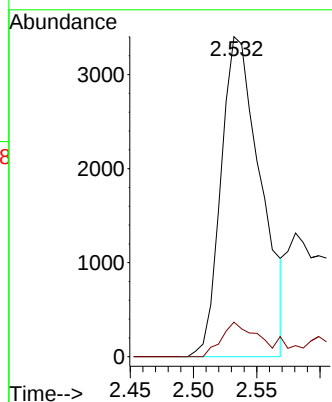
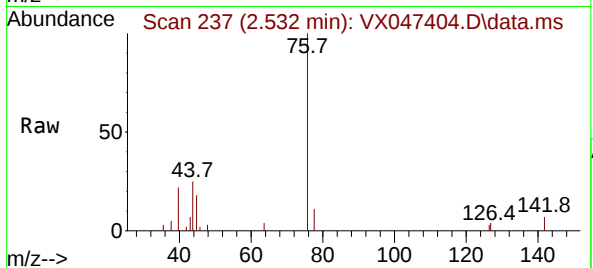
TW-22M-W

Tgt Ion: 76 Resp: 7427

Ion Ratio Lower Upper

76 100

78 10.8 7.2 10.8



#18

Methyl Acetate

Concen: 0.312 ug/l

RT: 2.733 min Scan# 270

Delta R.T. 0.018 min

Lab File: VX047404.D

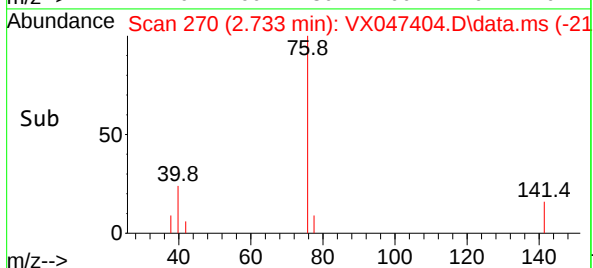
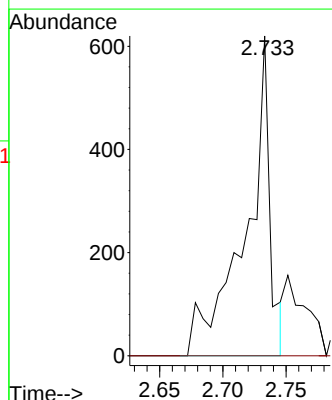
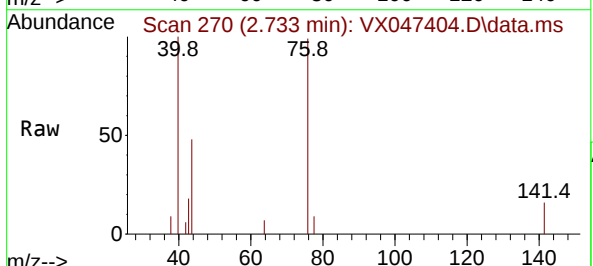
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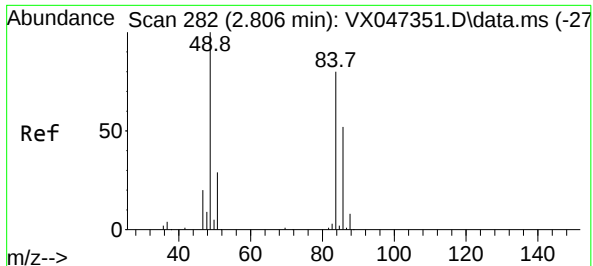
Tgt Ion: 43 Resp: 817

Ion Ratio Lower Upper

43 100

74 0.0 18.4 27.6#

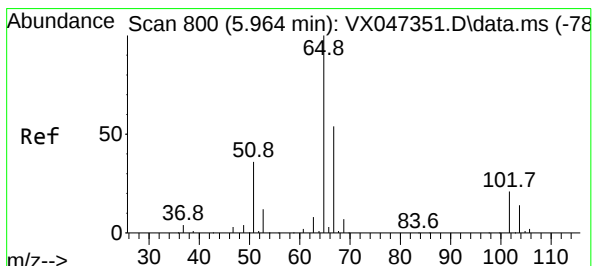
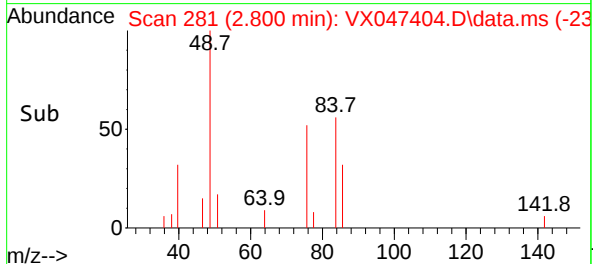
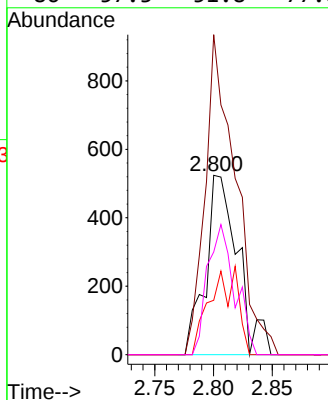
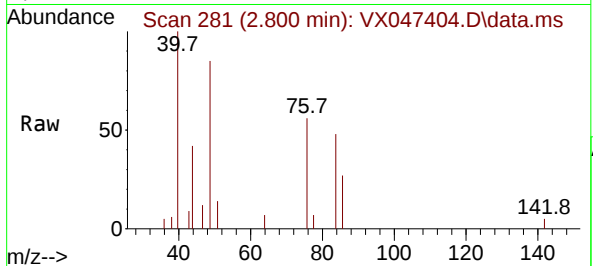




#20
Methylene Chloride
Concen: 0.374 ug/l
RT: 2.800 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

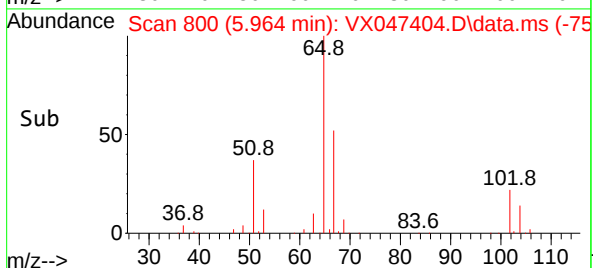
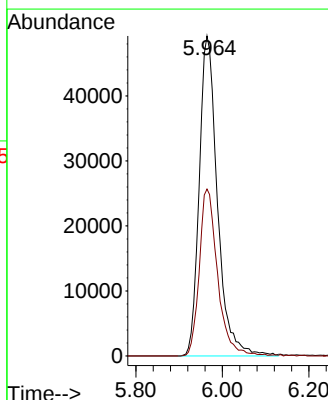
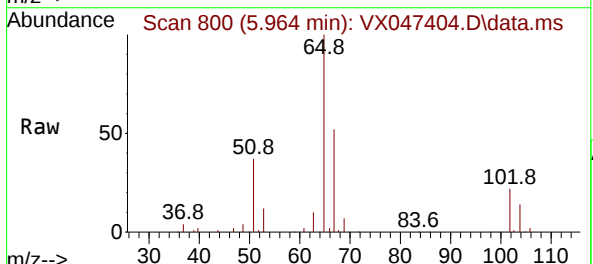
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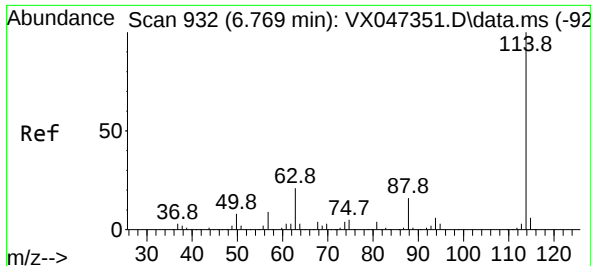
Tgt Ion:	84	Resp:	1001
Ion	Ratio	Lower	Upper
84	100		
49	178.4	100.1	150.1#
51	30.3	29.5	44.3
86	57.3	51.8	77.8



#33
1,2-Dichloroethane-d4
Concen: 53.466 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Tgt Ion:	65	Resp:	143693
Ion	Ratio	Lower	Upper
65	100		
67	52.4	0.0	106.0

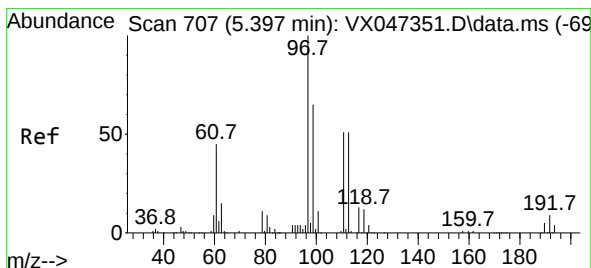
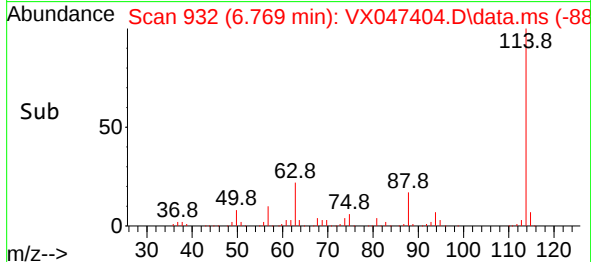
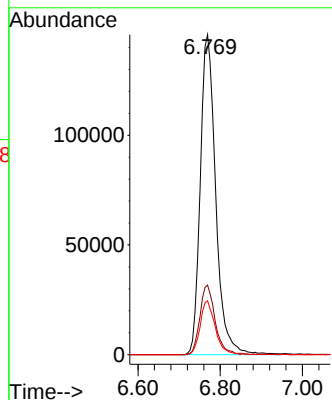
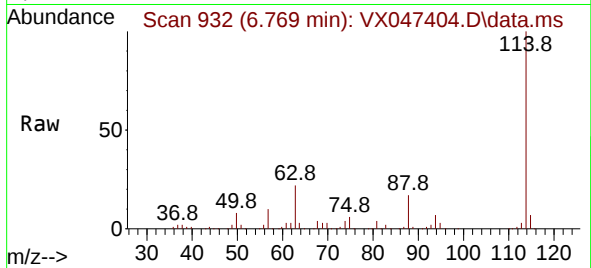




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

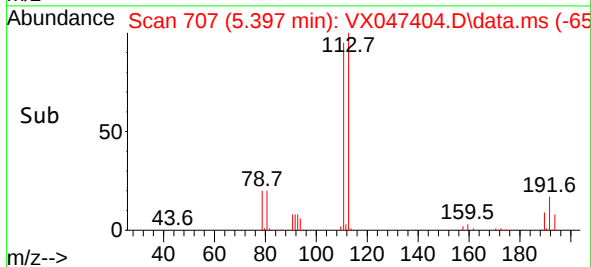
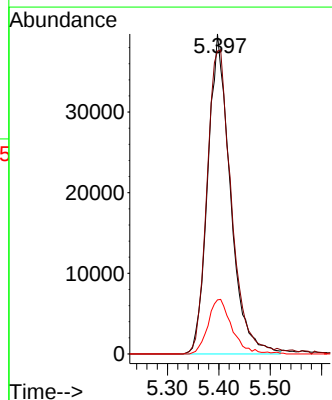
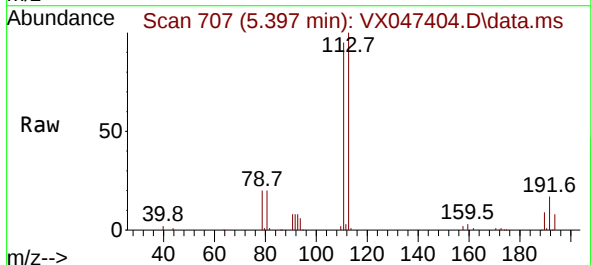
Instrument :
MSVOA_X
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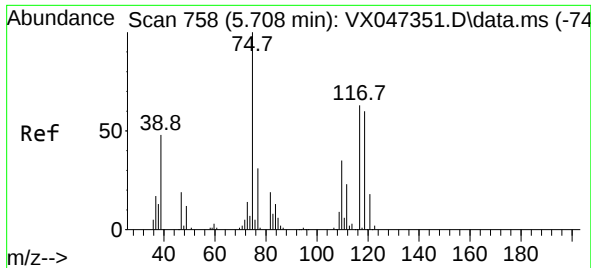
Tgt Ion:114 Resp: 380026
Ion Ratio Lower Upper
114 100
63 24.9 0.0 42.4
88 16.8 0.0 33.0



#35
Dibromofluoromethane
Concen: 48.965 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Tgt Ion:113 Resp: 120767
Ion Ratio Lower Upper
113 100
111 102.7 81.4 122.2
192 18.2 14.1 21.1

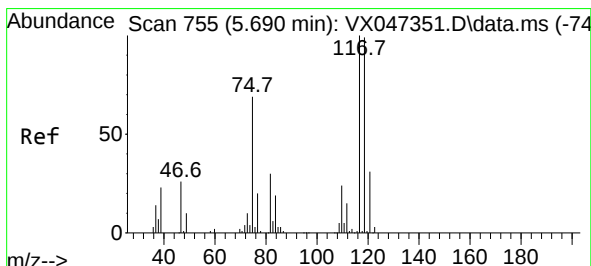
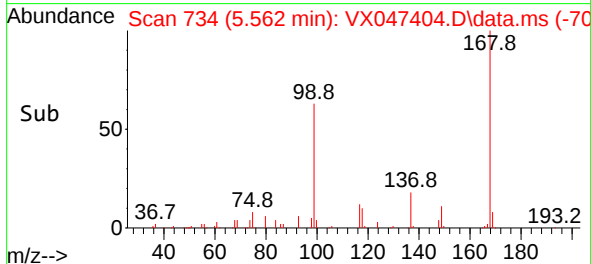
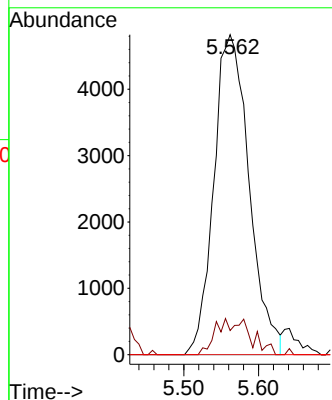
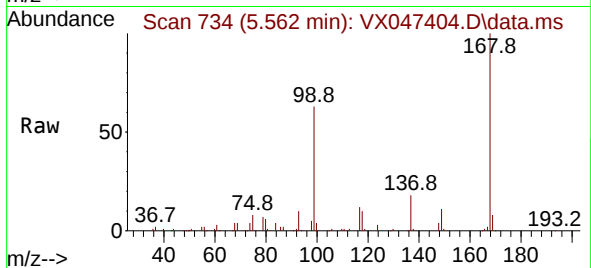




#36
 1,1-Dichloropropene
 Concen: 4.066 ug/l
 RT: 5.562 min Scan# 71
 Delta R.T. -0.146 min
 Lab File: VX047404.D
 Acq: 19 Aug 2025 12:16

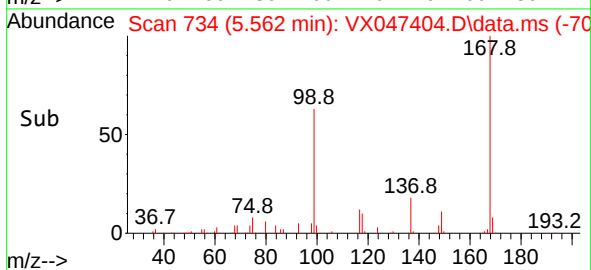
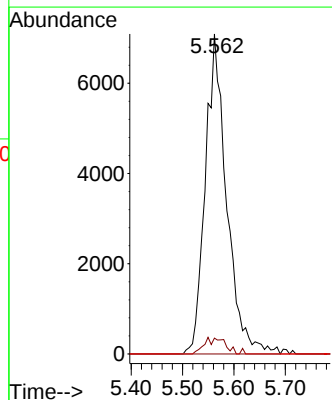
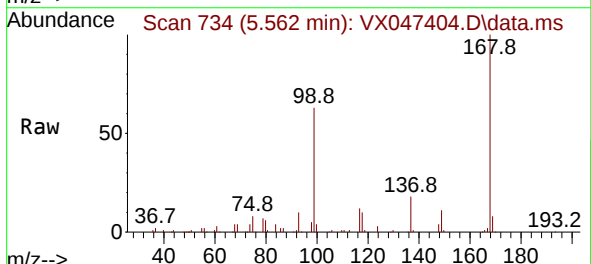
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-22M-W

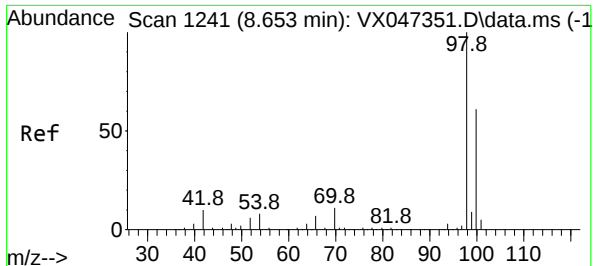
Tgt Ion: 75 Resp: 15829
 Ion Ratio Lower Upper
 75 100
 110 5.0 17.4 52.2#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 4.813 ug/l
 RT: 5.562 min Scan# 734
 Delta R.T. -0.128 min
 Lab File: VX047404.D
 Acq: 19 Aug 2025 12:16

Tgt Ion: 117 Resp: 20476
 Ion Ratio Lower Upper
 117 100
 119 4.9 78.5 117.7#
 121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: 49.501 ug/l

RT: 8.653 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047404.D

Acq: 19 Aug 2025 12:16

Instrument :

MSVOA_X

ClientSampleId :

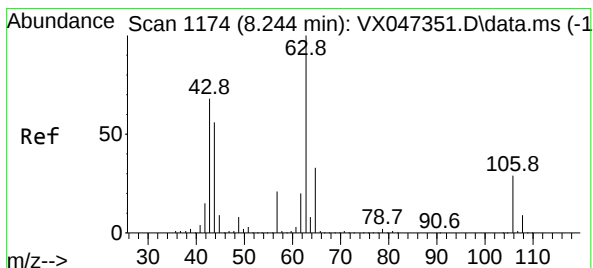
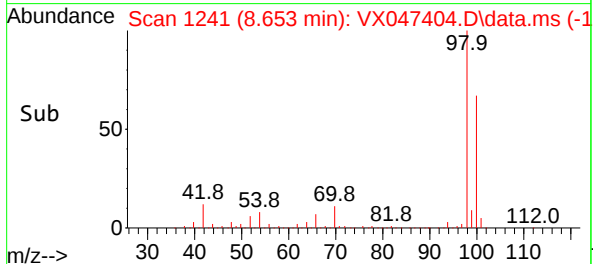
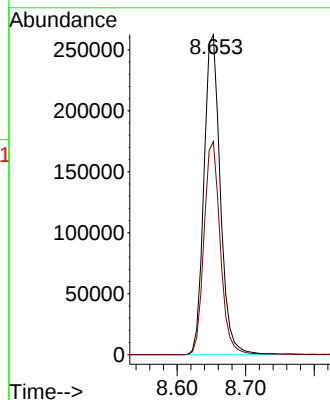
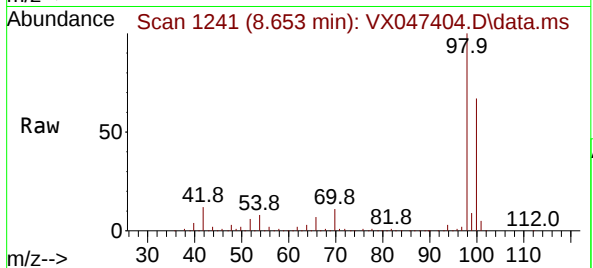
TW-22M-W

Tgt Ion: 98 Resp: 436381

Ion Ratio Lower Upper

98 100

100 66.4 53.9 80.9



#58

2-Chloroethyl Vinyl ether

Concen: 8.384 ug/l

RT: 8.494 min Scan# 1215

Delta R.T. 0.250 min

Lab File: VX047404.D

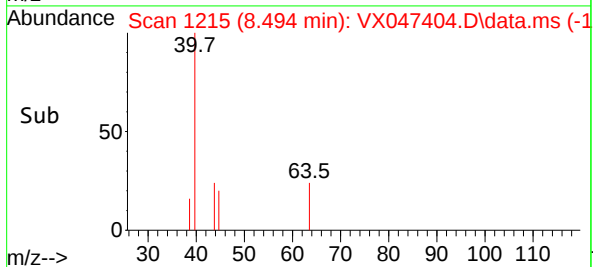
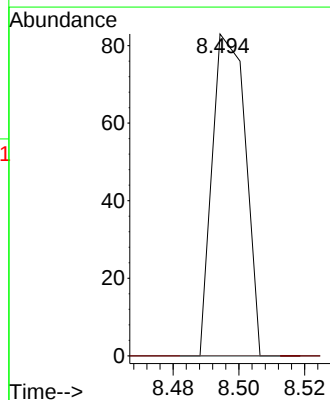
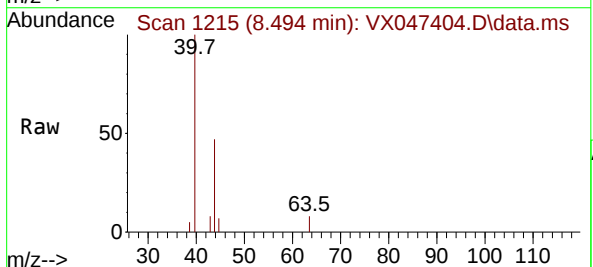
Acq: 19 Aug 2025 12:16

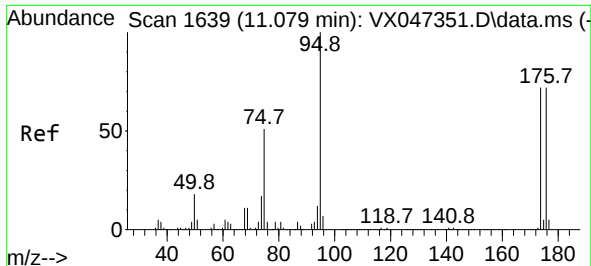
Tgt Ion: 63 Resp: 58

Ion Ratio Lower Upper

63 100

106 0.0 22.8 34.2#

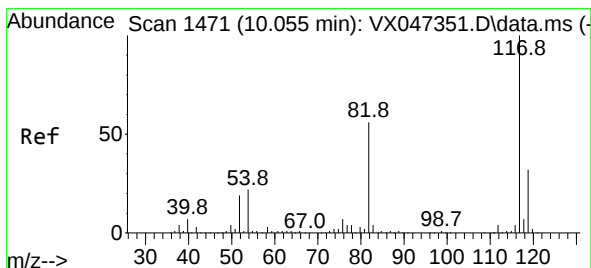
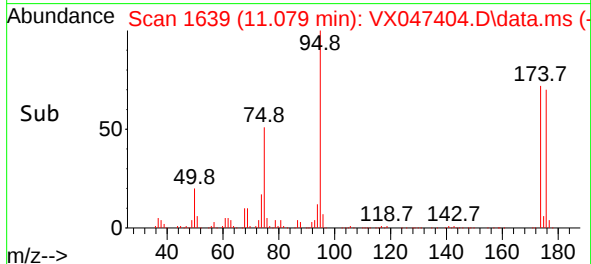
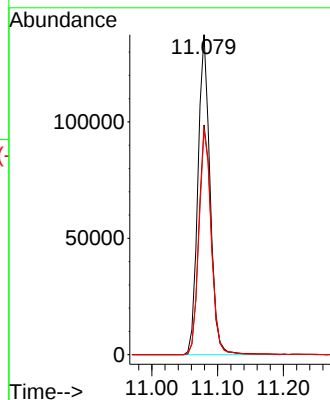
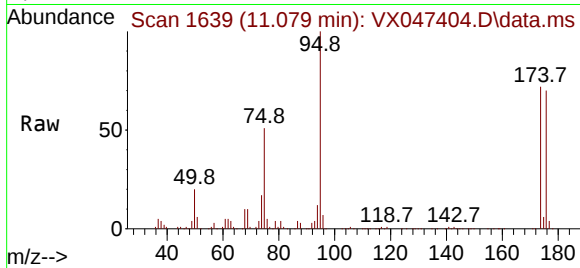




#62
4-Bromofluorobenzene
Concen: 53.680 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

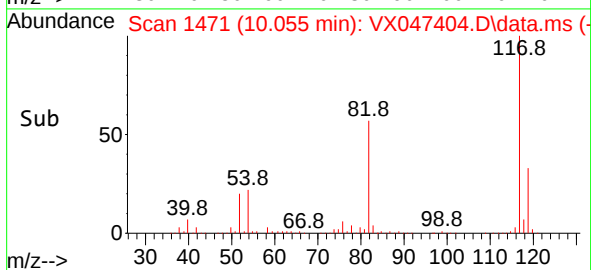
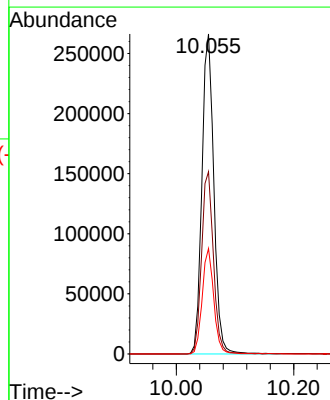
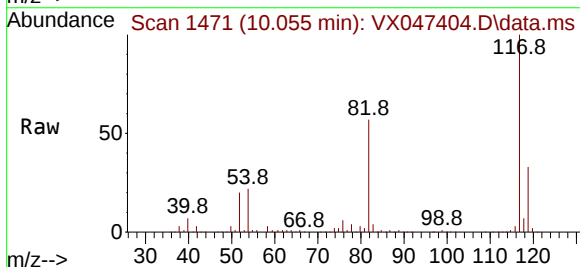
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

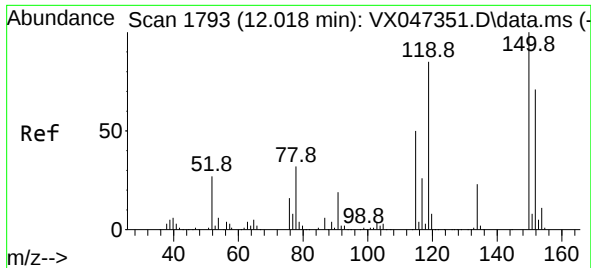
Tgt Ion: 95 Resp: 174627
Ion Ratio Lower Upper
95 100
174 74.4 0.0 148.0
176 71.4 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Tgt Ion: 117 Resp: 374792
Ion Ratio Lower Upper
117 100
82 57.0 45.0 67.4
119 32.9 25.8 38.8

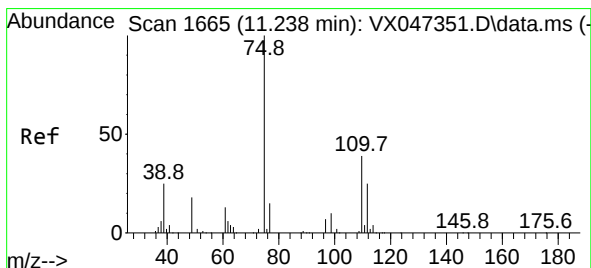
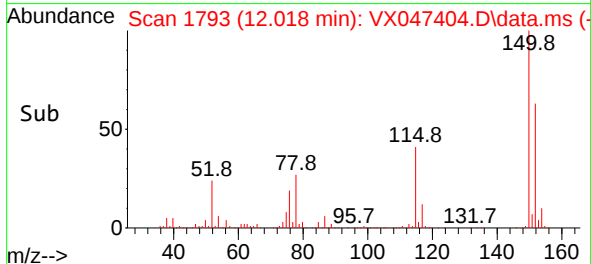
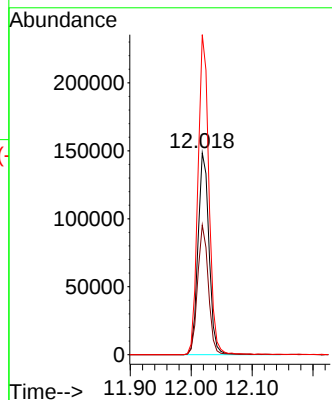
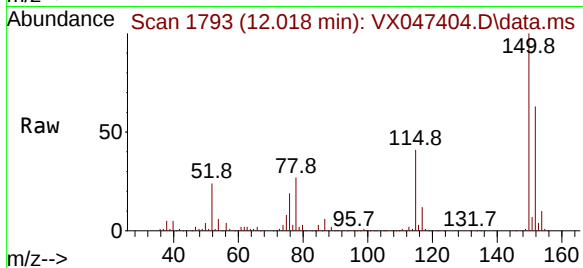




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

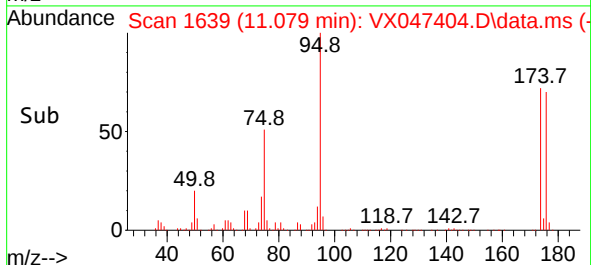
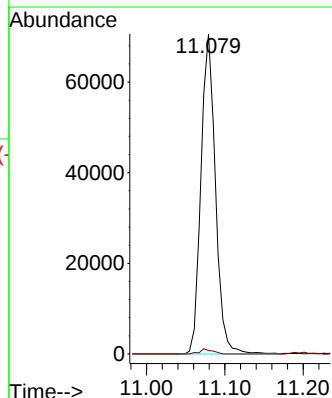
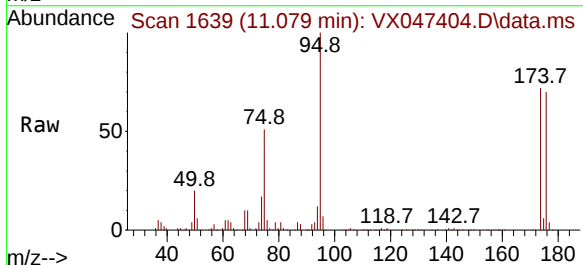
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

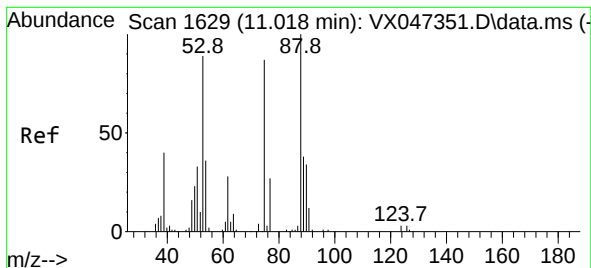
Tgt Ion:152 Resp: 186642
Ion Ratio Lower Upper
152 100
115 62.4 44.6 133.8
150 157.4 0.0 349.8



#76
1,2,3-Trichloropropane
Concen: 26.584 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Tgt Ion: 75 Resp: 91002
Ion Ratio Lower Upper
75 100
77 1.4 19.4 58.2#

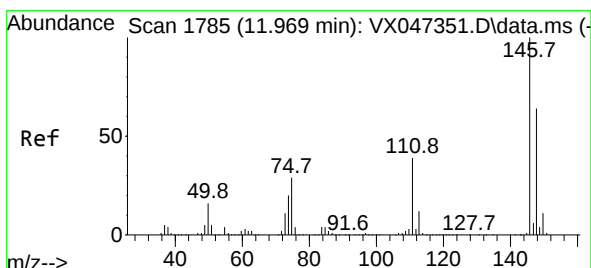
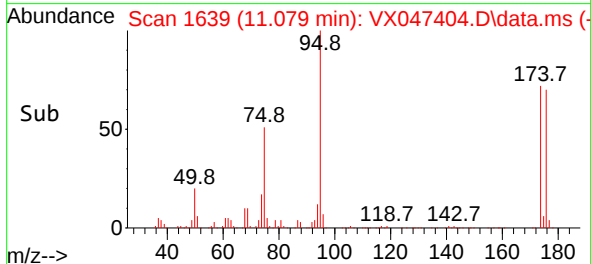
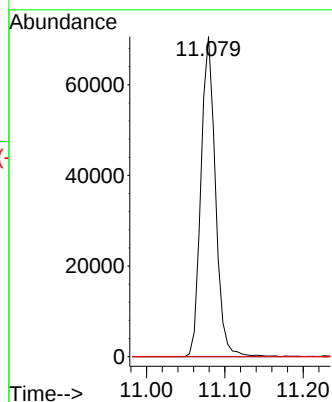
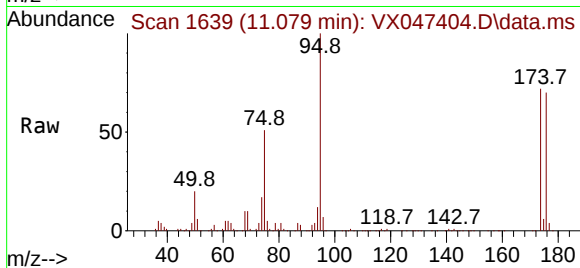




#81
trans-1,4-Dichloro-2-butene
Concen: 105.243 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

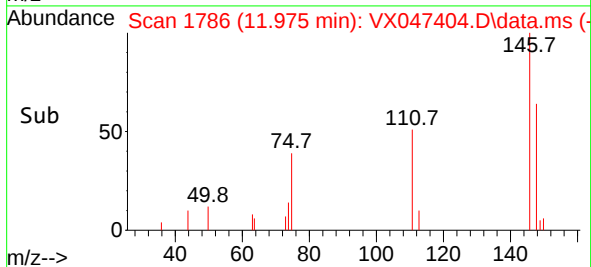
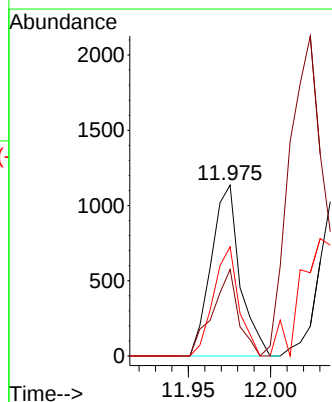
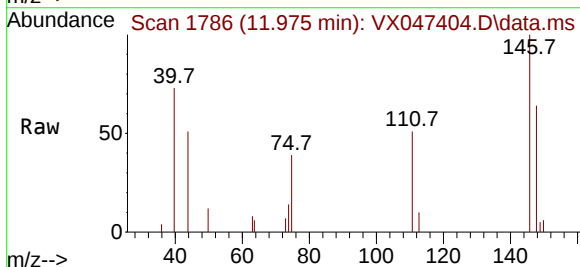
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

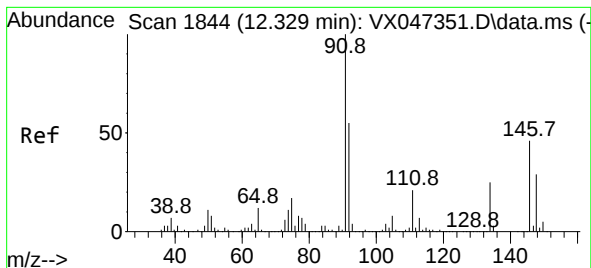
Tgt Ion: 75 Resp: 91002
Ion Ratio Lower Upper
75 100
53 0.0 85.2 127.8#
89 0.0 36.7 55.1#



#87
1,3-Dichlorobenzene
Concen: 0.202 ug/l
RT: 11.975 min Scan# 1786
Delta R.T. 0.006 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Tgt Ion:146 Resp: 1378
Ion Ratio Lower Upper
146 100
111 45.4 20.6 61.8
148 56.3 31.9 95.5





#89

n-Butylbenzene

Concen: 0.295 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX047404.D

Acq: 19 Aug 2025 12:16

Instrument :

MSVOA_X

ClientSampleId :

TW-22M-W

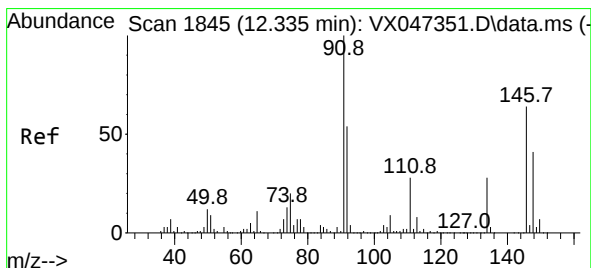
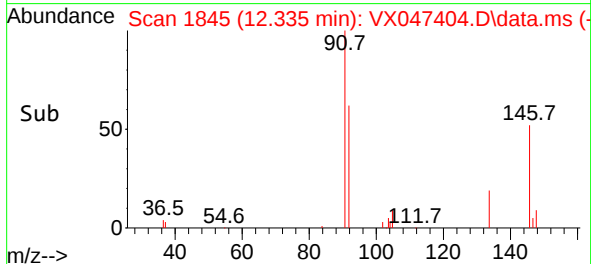
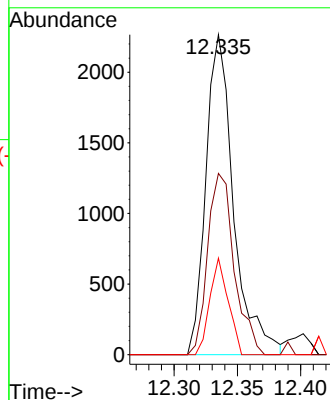
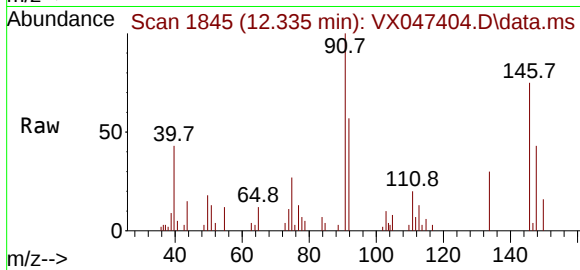
Tgt Ion: 91 Resp: 3453

Ion Ratio Lower Upper

91 100

92 54.4 27.2 81.5

134 20.0 12.6 37.8



#91

1,2-Dichlorobenzene

Concen: 0.366 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX047404.D

Acq: 19 Aug 2025 12:16

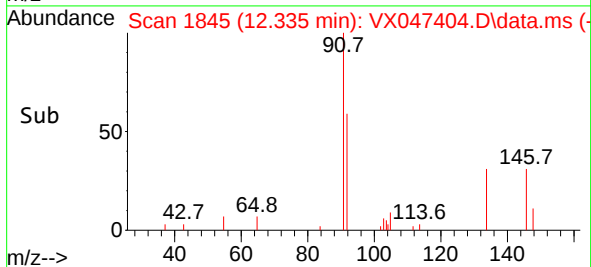
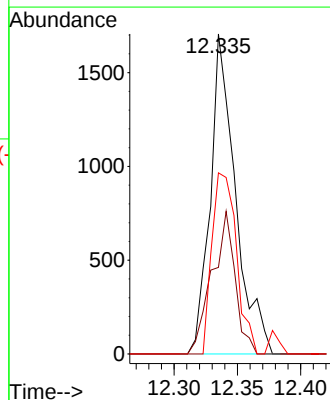
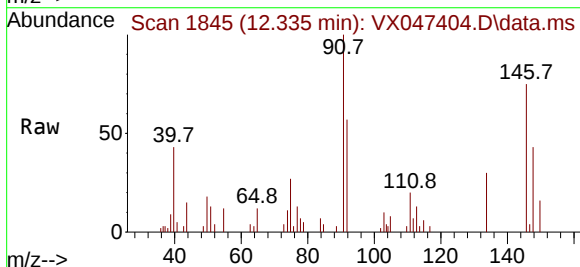
Tgt Ion:146 Resp: 2366

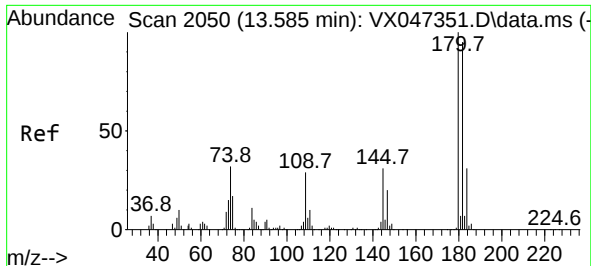
Ion Ratio Lower Upper

146 100

111 40.7 22.1 66.1

148 55.0 31.9 95.5

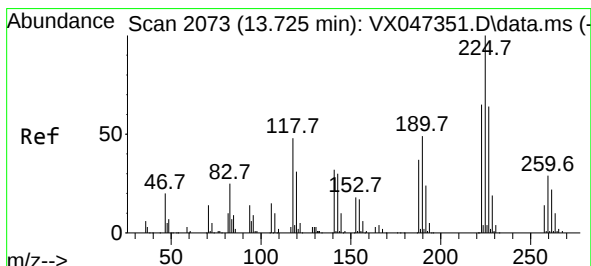
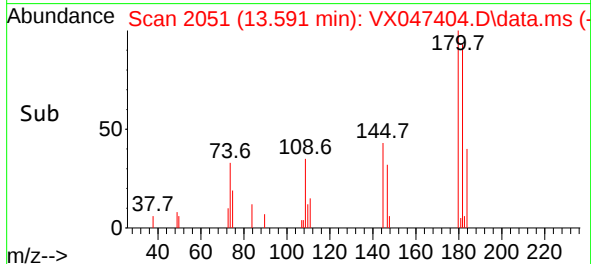
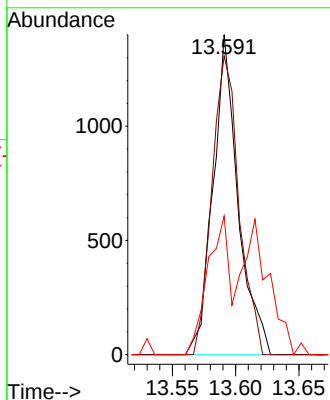
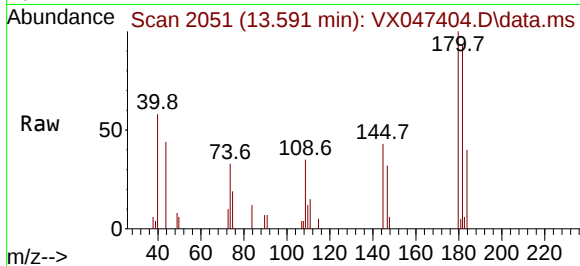




#93
 1,2,4-Trichlorobenzene
 Concen: 0.445 ug/l
 RT: 13.591 min Scan# 2051
 Delta R.T. 0.006 min
 Lab File: VX047404.D
 Acq: 19 Aug 2025 12:16

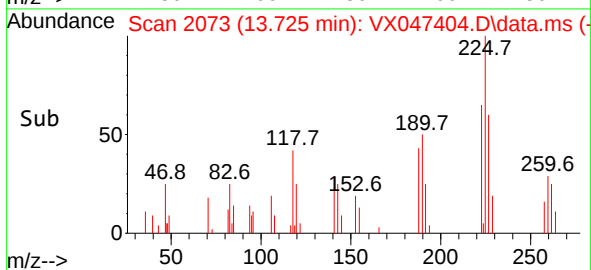
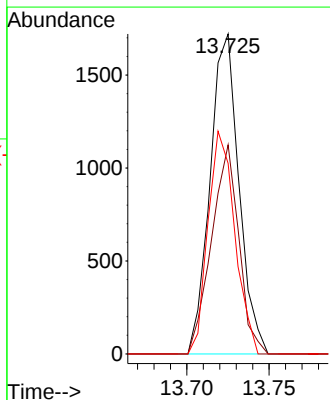
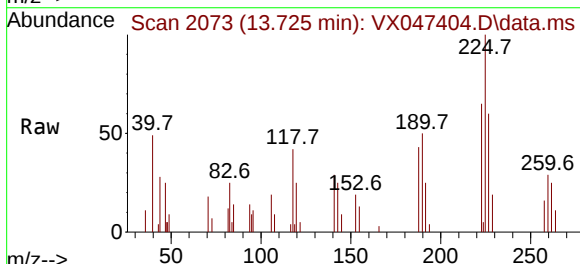
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-22M-W

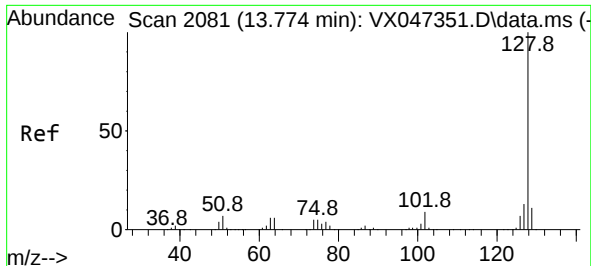
Tgt Ion:180 Resp: 1929
 Ion Ratio Lower Upper
 180 100
 182 100.8 48.1 144.4
 145 37.6 16.2 48.5



#94
 Hexachlorobutadiene
 Concen: 1.359 ug/l
 RT: 13.725 min Scan# 2073
 Delta R.T. 0.000 min
 Lab File: VX047404.D
 Acq: 19 Aug 2025 12:16

Tgt Ion:225 Resp: 2097
 Ion Ratio Lower Upper
 225 100
 223 61.9 32.2 96.6
 227 64.7 31.6 95.0

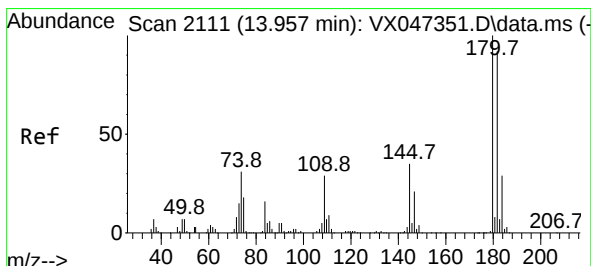
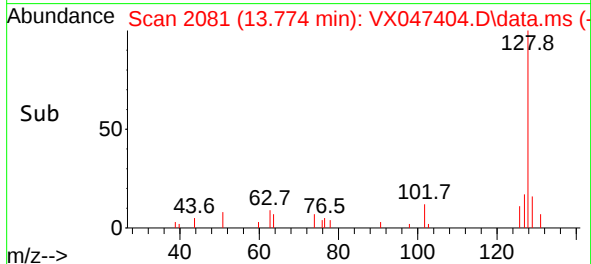
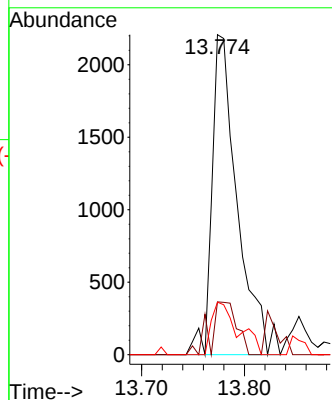
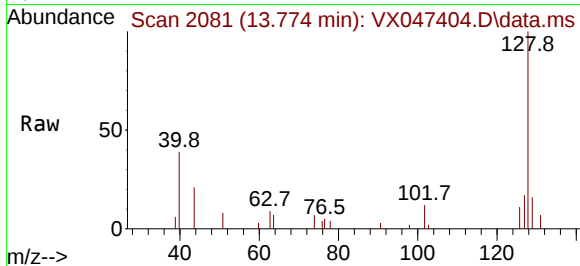




#95
Naphthalene
Concen: 0.307 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-W

Tgt Ion:128 Resp: 3798
Ion Ratio Lower Upper
128 100
127 17.0 10.1 15.1#
129 17.2 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 0.428 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX047404.D
Acq: 19 Aug 2025 12:16

Tgt Ion:180 Resp: 1748
Ion Ratio Lower Upper
180 100
182 97.3 48.0 144.2
145 69.6 17.4 52.2#

