

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092525\
 Data File : VX047832.D
 Acq On : 26 Sep 2025 04:34
 Operator : JC/MD
 Sample : Q3156-05
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D2-20250918

Quant Time: Sep 26 06:54:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

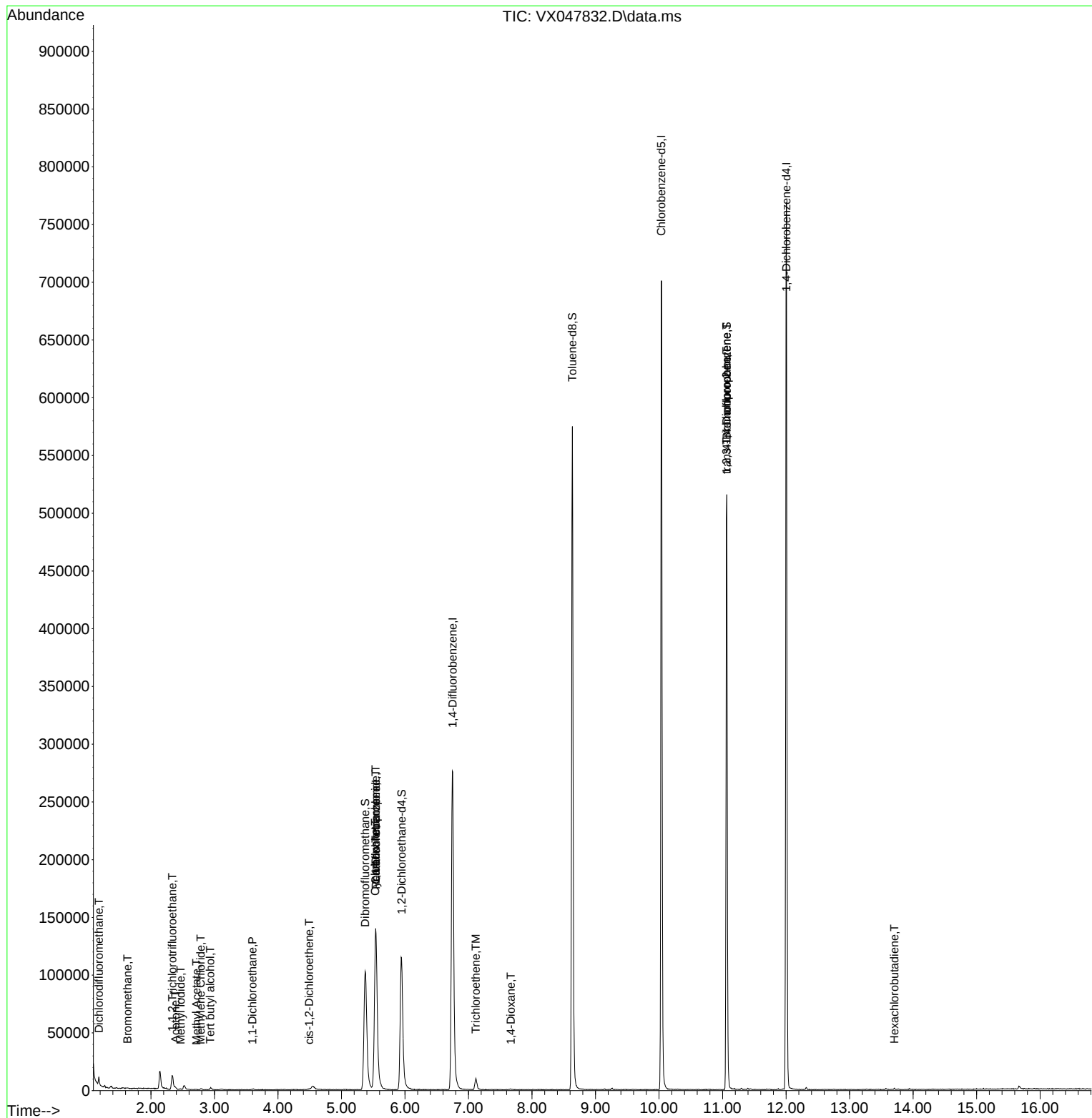
Internal Standards						
1) Pentafluorobenzene	5.544	168	140617	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	306014	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	316716	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	157952	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	125680	56.151	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 112.300%		
35) Dibromofluoromethane	5.373	113	102354	49.873	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 99.740%		
50) Toluene-d8	8.634	98	352564	49.647	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 99.300%		
62) 4-Bromofluorobenzene	11.067	95	149703	55.547	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 111.100%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.179	85	2135	1.466	ug/l	97
5) Bromomethane	1.630	94	244	0.205	ug/l #	75
9) 1,1,2-Trichlorotrifluo...	2.337	101	5682	3.494	ug/l	98
10) Methyl Iodide	2.465	142	685	0.270	ug/l #	91
11) Tert butyl alcohol	2.934	59	676	2.712	ug/l #	72
16) Acetone	2.386	43	2214	2.275	ug/l #	45
18) Methyl Acetate	2.715	43	587	0.271	ug/l #	54
20) Methylene Chloride	2.782	84	457	0.222	ug/l #	61
24) 1,1-Dichloroethane	3.599	63	953	0.268	ug/l #	81
27) cis-1,2-Dichloroethene	4.489	96	508	0.231	ug/l	77
31) Cyclohexane	5.531	56	2320	0.784	ug/l #	39
36) 1,1-Dichloropropene	5.537	75	11788	3.931	ug/l #	51
38) Carbon Tetrachloride	5.537	117	15596	4.786	ug/l #	18
44) Trichloroethene	7.116	130	4335	1.969	ug/l	96
49) 1,4-Dioxane	7.665	88	624	23.539	ug/l #	65
76) 1,2,3-Trichloropropane	11.061	75	78342	24.497	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	78342	62.471	ug/l #	8
94) Hexachlorobutadiene	13.707	225	305	0.264	ug/l #	65

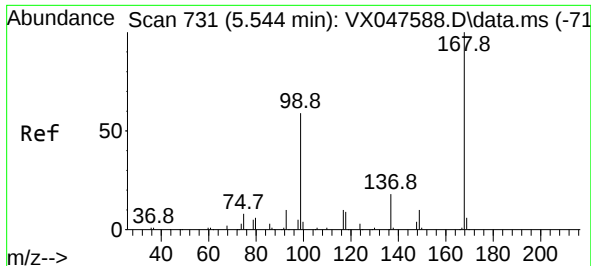
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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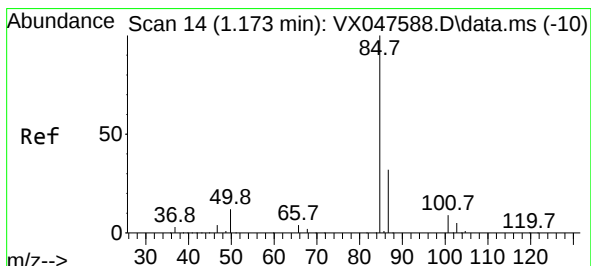
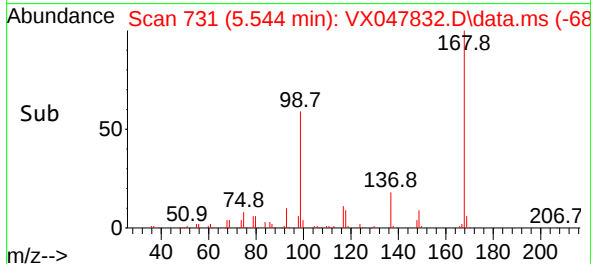
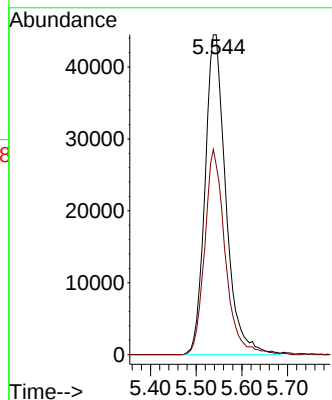
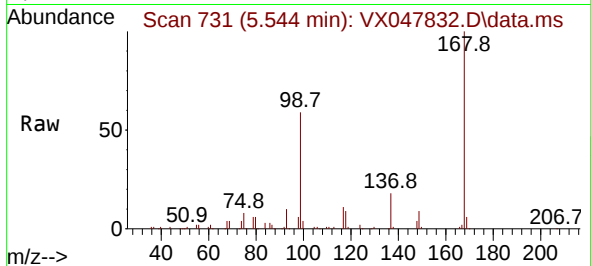




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

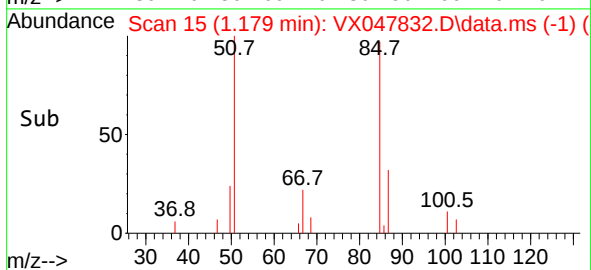
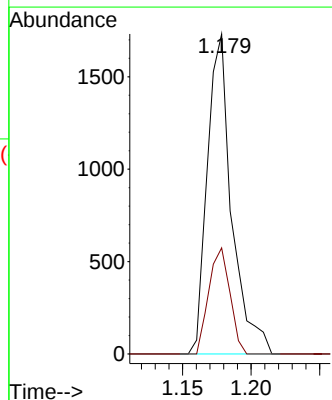
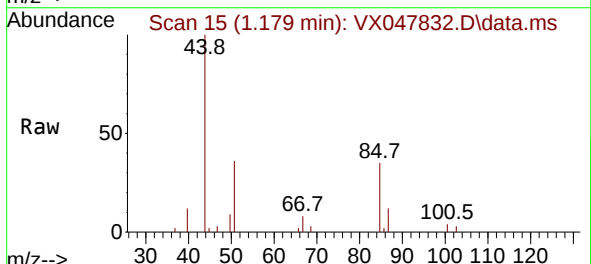
Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20250918

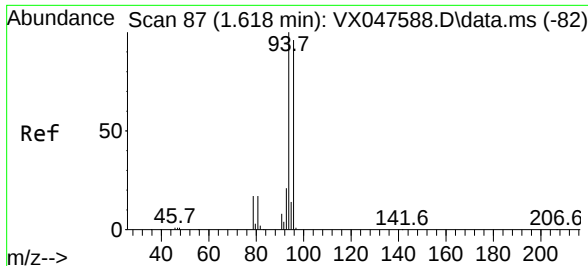
Tgt Ion:168 Resp: 140617
Ion Ratio Lower Upper
168 100
99 59.3 48.8 73.2



#2
Dichlorodifluoromethane
Concen: 1.466 ug/l
RT: 1.179 min Scan# 15
Delta R.T. 0.006 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

Tgt Ion: 85 Resp: 2135
Ion Ratio Lower Upper
85 100
87 33.1 15.8 47.3

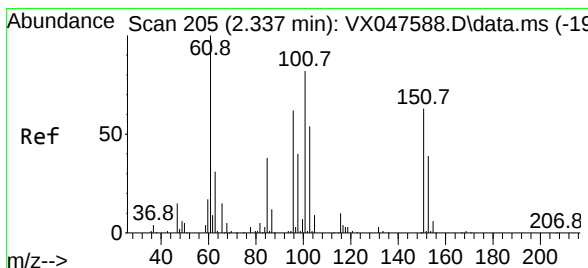
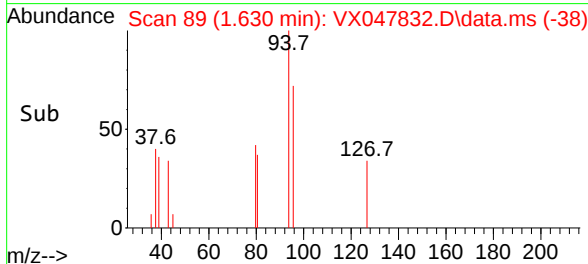
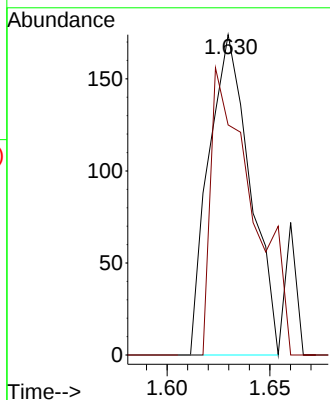
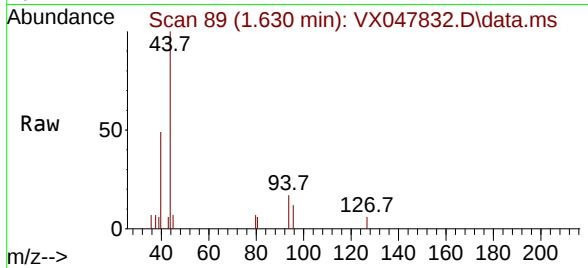




#5
Bromomethane
Concen: 0.205 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

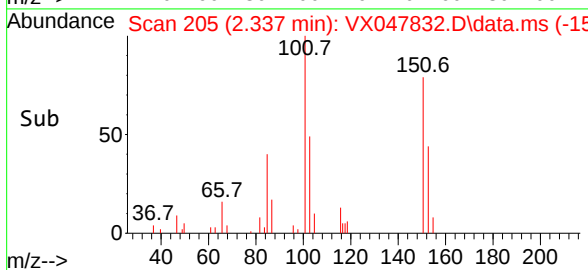
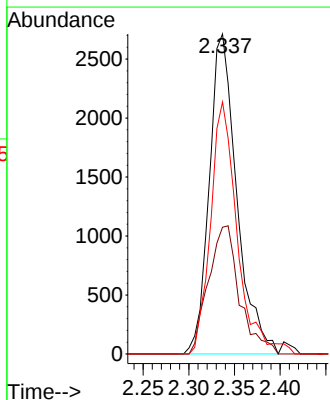
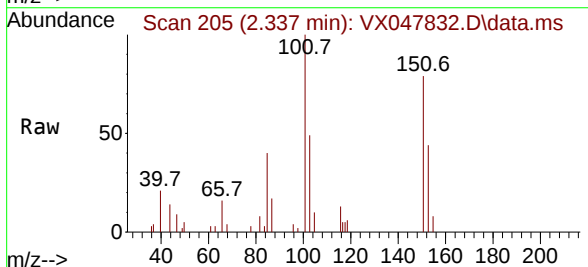
Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20250918

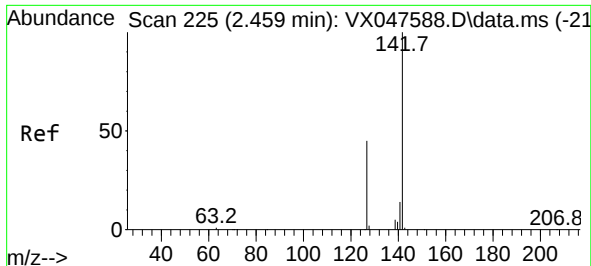
Tgt Ion: 94 Resp: 244
Ion Ratio Lower Upper
94 100
96 71.8 76.6 115.0#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.494 ug/l
RT: 2.337 min Scan# 205
Delta R.T. -0.000 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

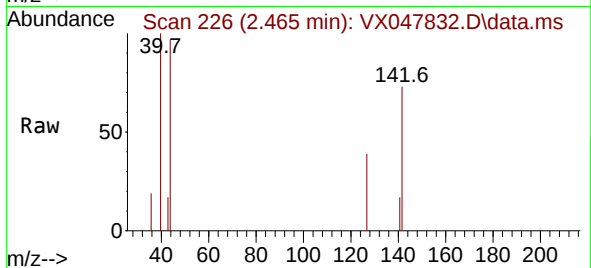
Tgt Ion: 101 Resp: 5682
Ion Ratio Lower Upper
101 100
85 45.2 35.5 53.3
151 76.2 59.4 89.0



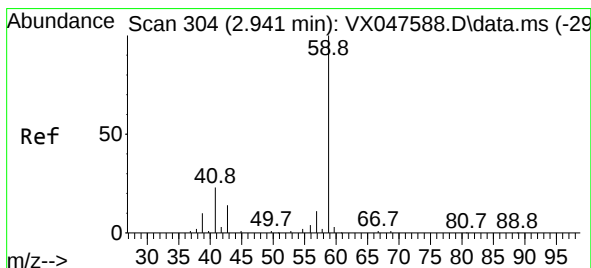
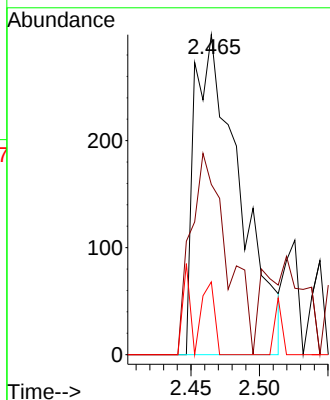
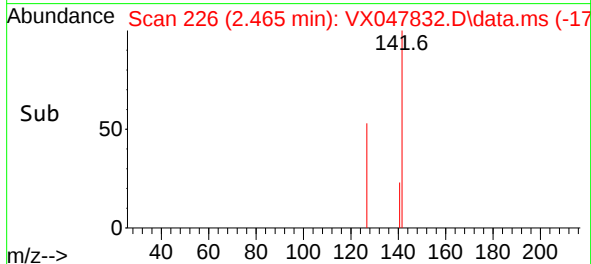


#10
Methyl Iodide
Concen: 0.270 ug/l
RT: 2.465 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20250918

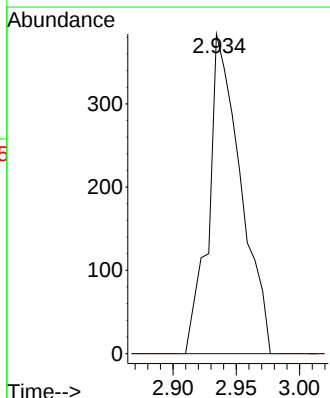
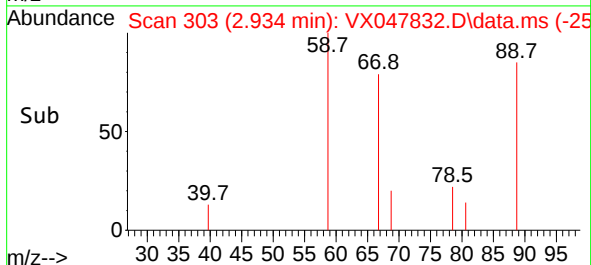
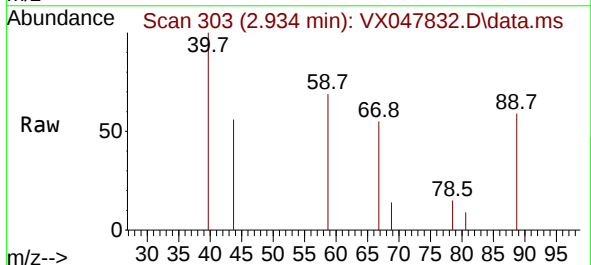


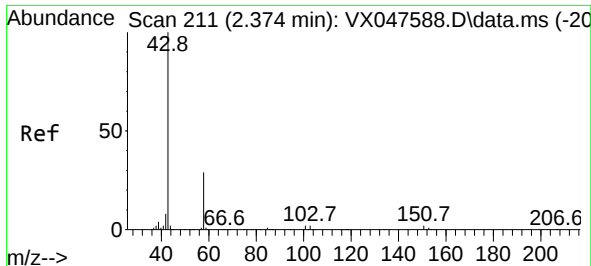
Tgt Ion:142 Resp: 685
Ion Ratio Lower Upper
142 100
127 50.5 37.2 55.8
141 6.6 11.4 17.0#



#11
Tert butyl alcohol
Concen: 2.712 ug/l
RT: 2.934 min Scan# 303
Delta R.T. -0.006 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

Tgt Ion: 59 Resp: 676
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

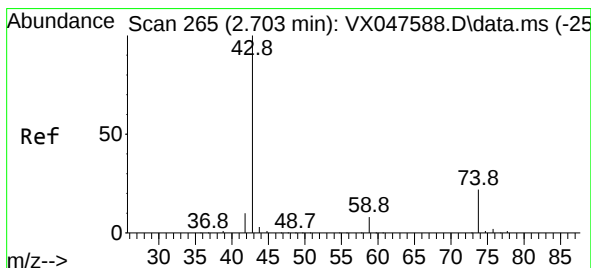
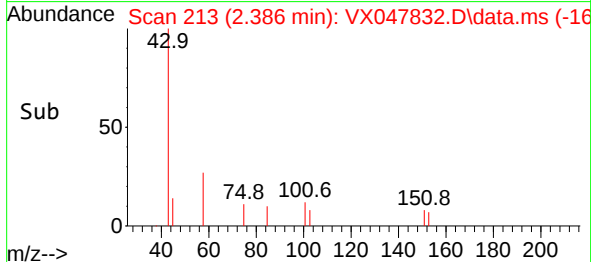
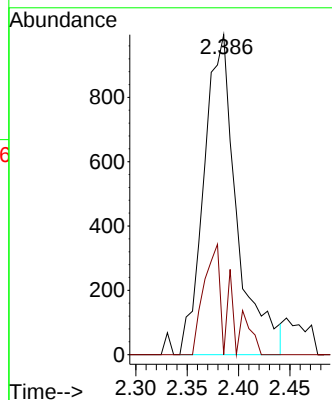
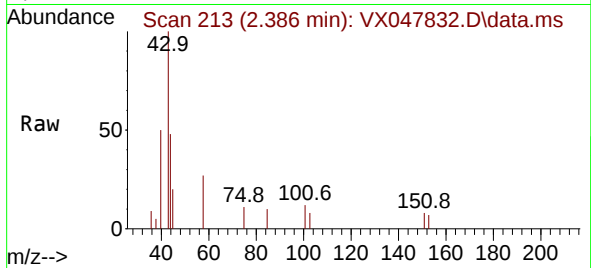




#16
Acetone
Concen: 2.275 ug/l
RT: 2.386 min Scan# 211
Delta R.T. 0.012 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

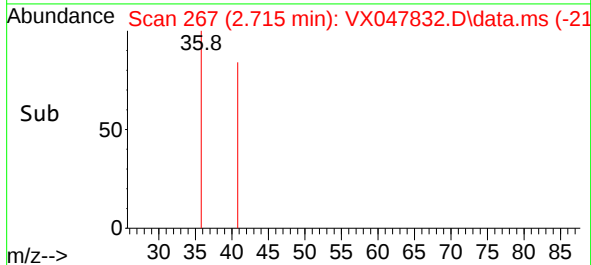
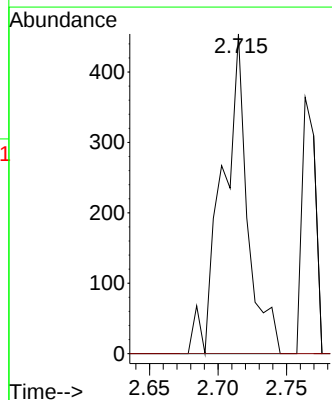
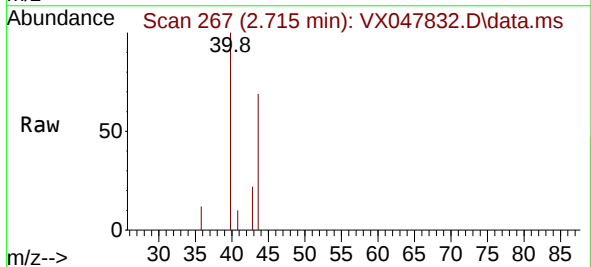
Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20250918

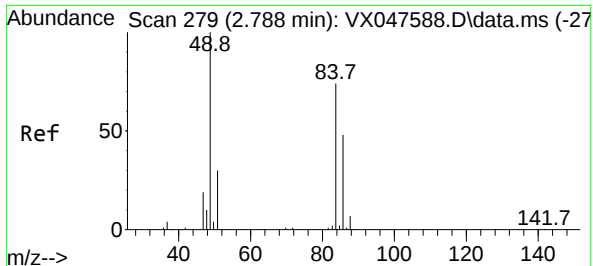
Tgt Ion: 43 Resp: 2214
Ion Ratio Lower Upper
43 100
58 0.0 23.4 35.0#



#18
Methyl Acetate
Concen: 0.271 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.012 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

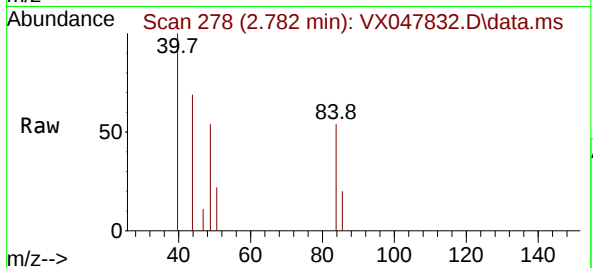
Tgt Ion: 43 Resp: 587
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#



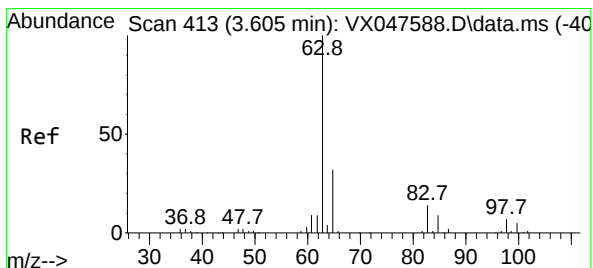
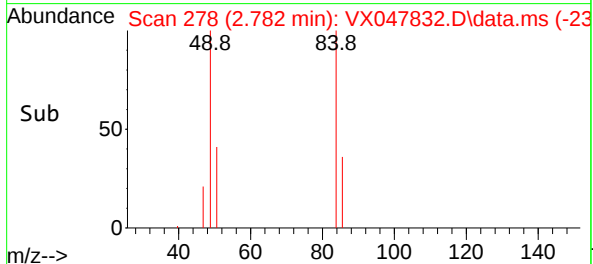
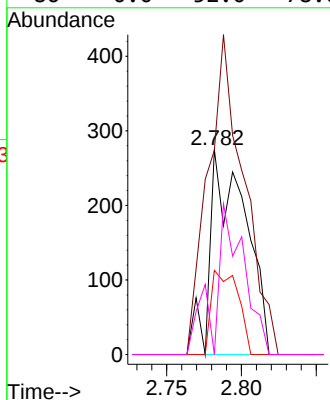


#20
Methylene Chloride
Concen: 0.222 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20250918

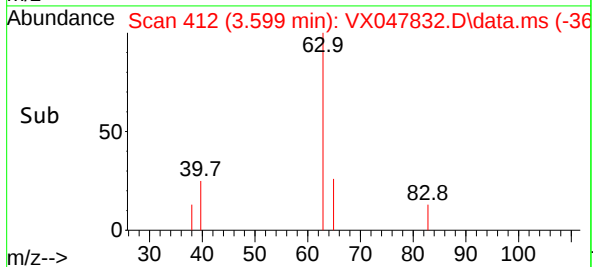
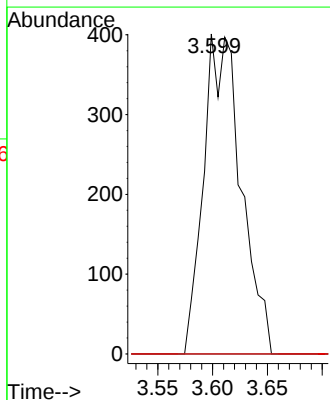
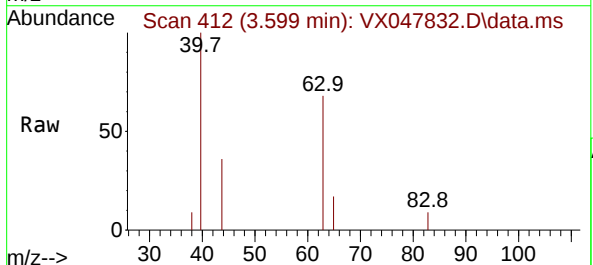


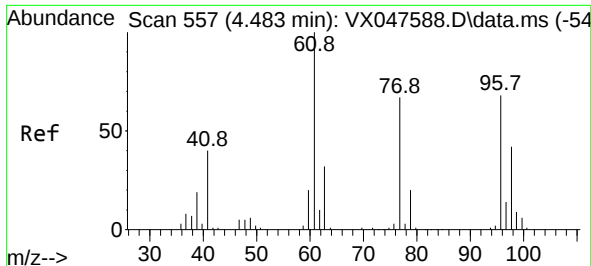
Tgt Ion:	84	Resp:	457
Ion	Ratio	Lower	Upper
84	100		
49	99.6	108.6	162.8#
51	41.1	32.6	48.8
86	0.0	52.0	78.0#



#24
1,1-Dichloroethane
Concen: 0.268 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.006 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

Tgt Ion:	63	Resp:	953
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.8	11.2#
100	0.0	2.3	6.9#





#27

cis-1,2-Dichloroethene

Concen: 0.231 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX047832.D

Acq: 26 Sep 2025 04:34

Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20250918

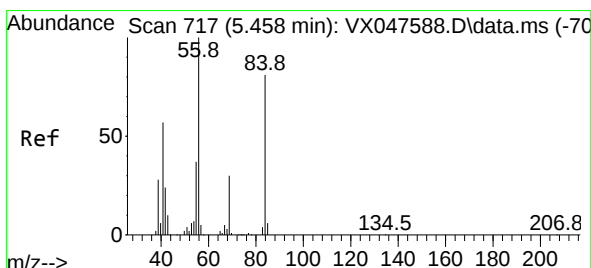
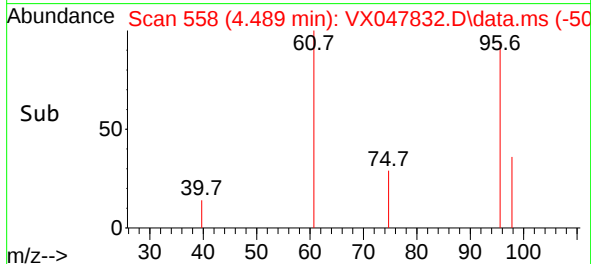
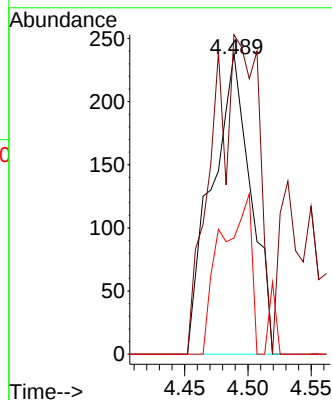
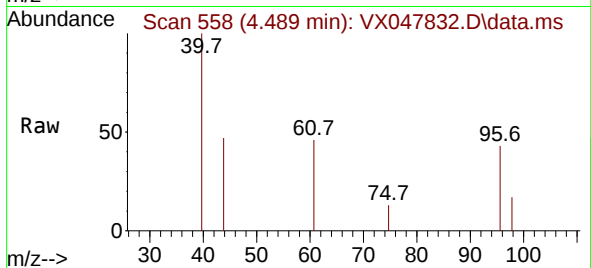
Tgt Ion: 96 Resp: 508

Ion Ratio Lower Upper

96 100

61 126.0 0.0 303.2

98 41.5 0.0 127.8



#31

Cyclohexane

Concen: 0.784 ug/l

RT: 5.531 min Scan# 729

Delta R.T. 0.073 min

Lab File: VX047832.D

Acq: 26 Sep 2025 04:34

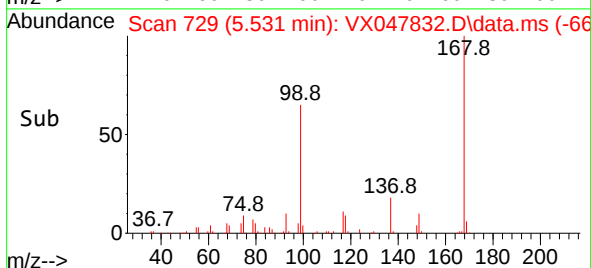
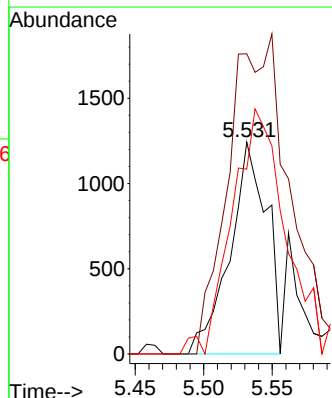
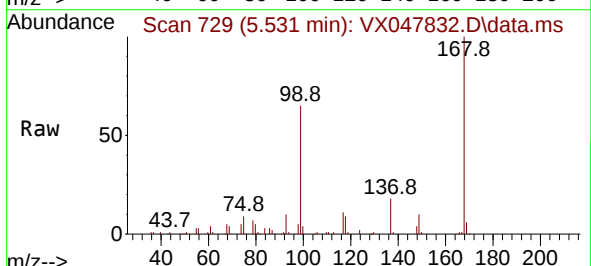
Tgt Ion: 56 Resp: 2320

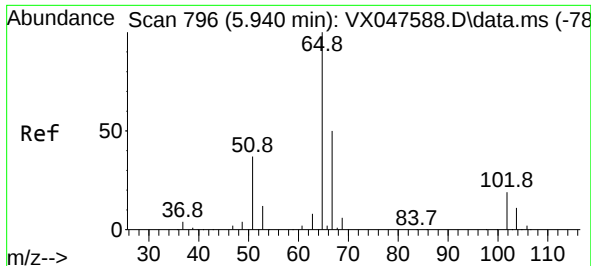
Ion Ratio Lower Upper

56 100

69 141.7 23.8 35.8#

84 87.2 64.6 97.0

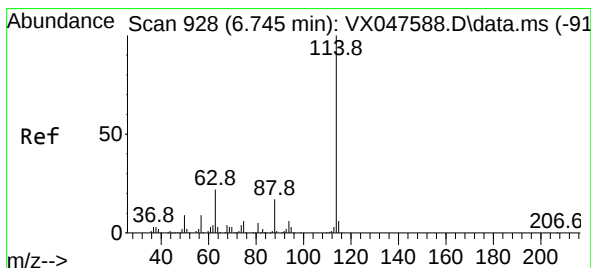
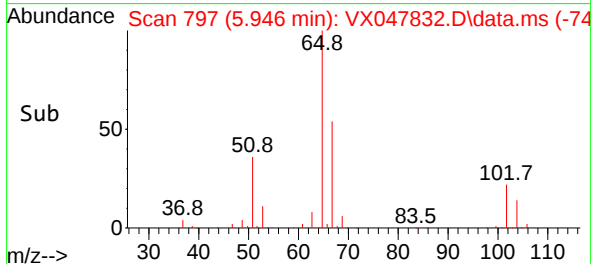
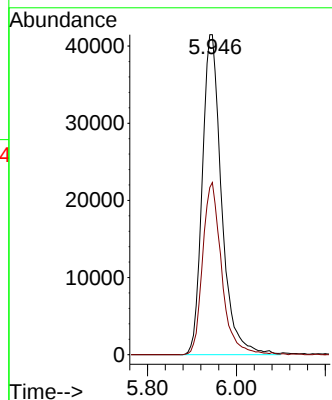
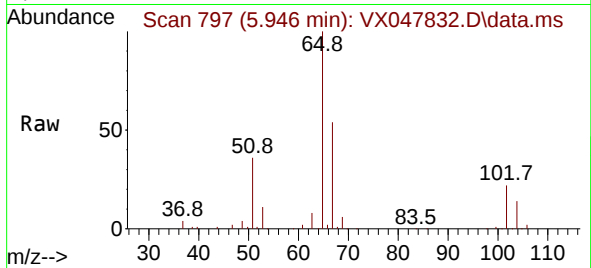




#33
 1,2-Dichloroethane-d4
 Concen: 56.151 ug/l
 RT: 5.946 min Scan# 796
 Delta R.T. 0.006 min
 Lab File: VX047832.D
 Acq: 26 Sep 2025 04:34

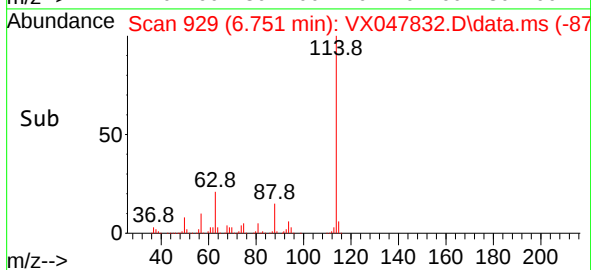
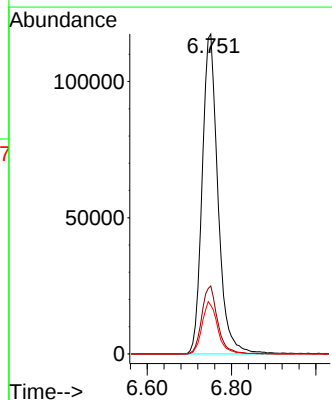
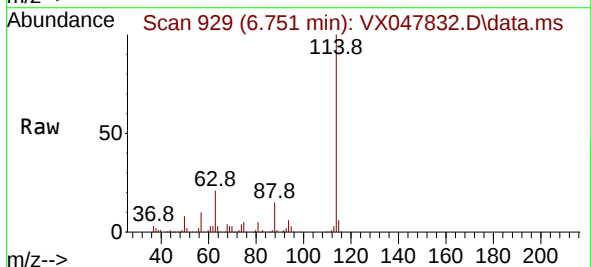
Instrument :
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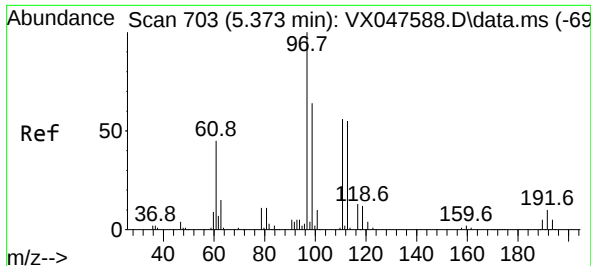
Tgt Ion: 65 Resp: 125680
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.751 min Scan# 929
 Delta R.T. 0.006 min
 Lab File: VX047832.D
 Acq: 26 Sep 2025 04:34

Tgt Ion: 114 Resp: 306014
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 44.0
 88 15.2 0.0 34.2

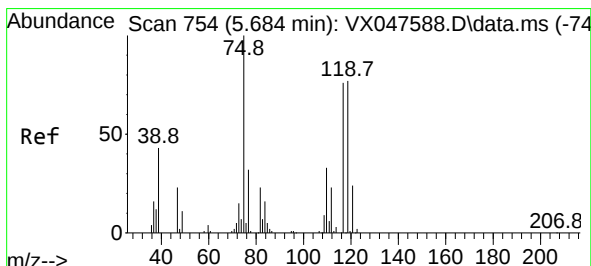
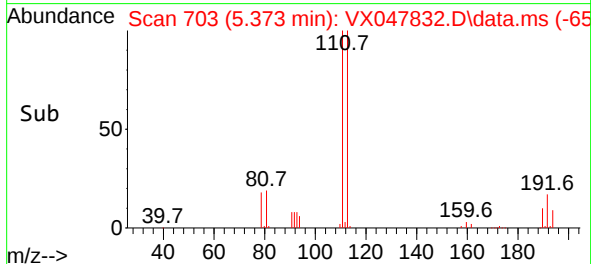
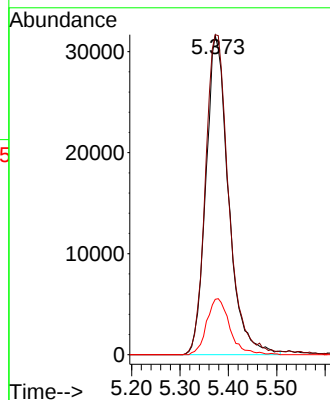
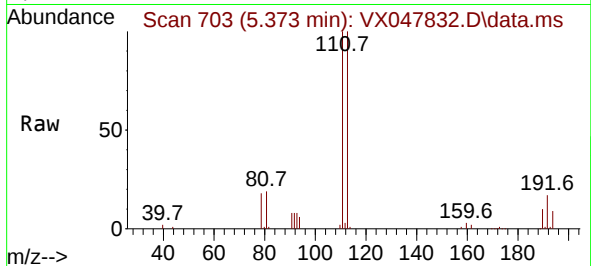




#35
Dibromofluoromethane
Concen: 49.873 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

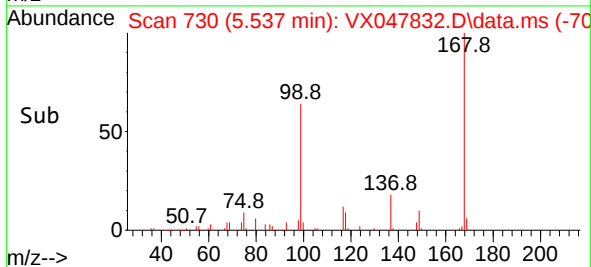
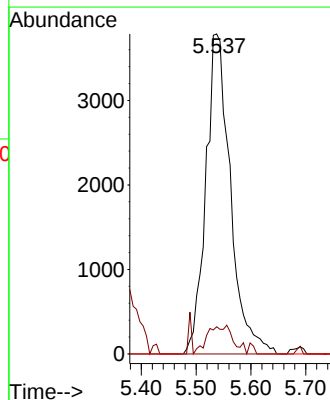
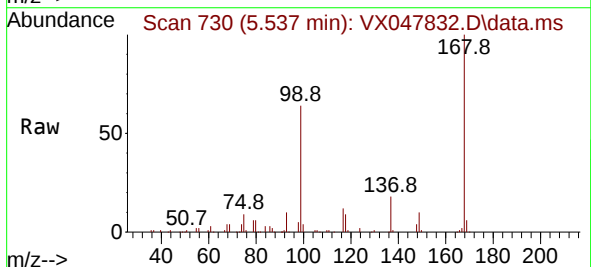
Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20250918

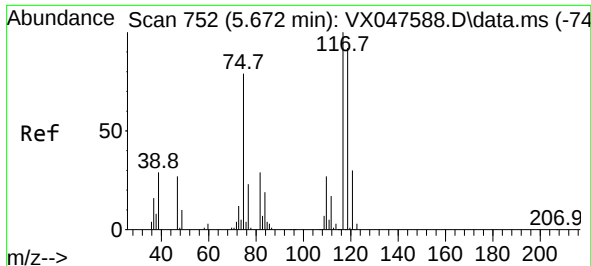
Tgt Ion:113 Resp: 102354
Ion Ratio Lower Upper
113 100
111 103.7 80.9 121.3
192 17.9 14.2 21.4



#36
1,1-Dichloropropene
Concen: 3.931 ug/l
RT: 5.537 min Scan# 730
Delta R.T. -0.147 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

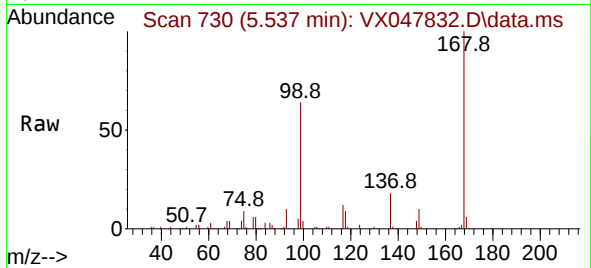
Tgt Ion: 75 Resp: 11788
Ion Ratio Lower Upper
75 100
110 8.6 16.7 50.1#
77 0.0 24.3 36.5#



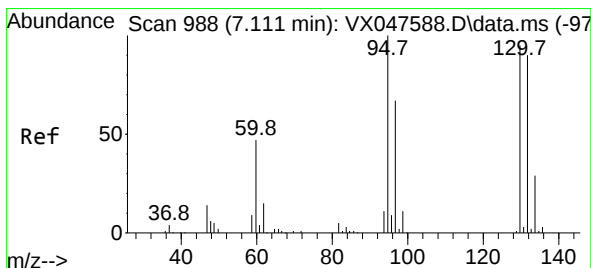
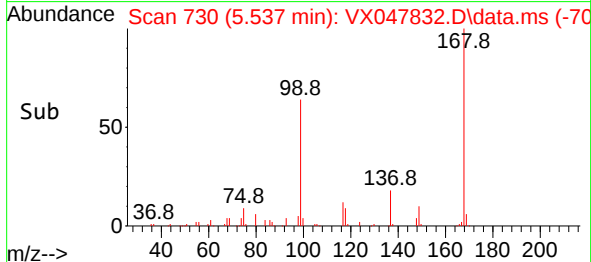
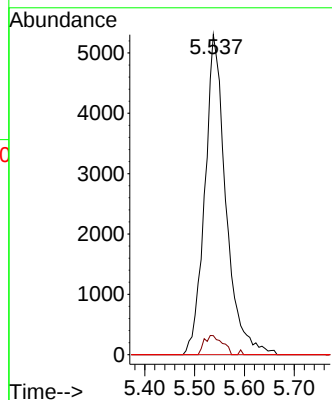


#38
Carbon Tetrachloride
Concen: 4.786 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20250918

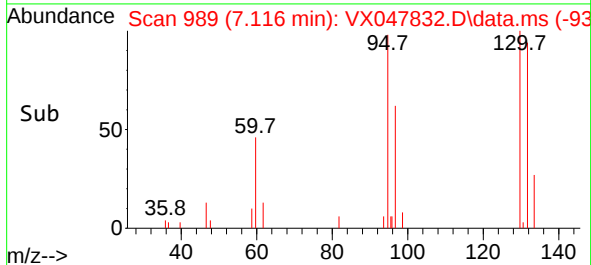
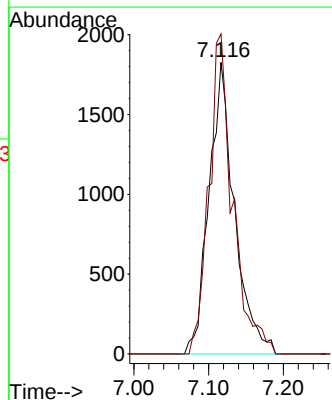
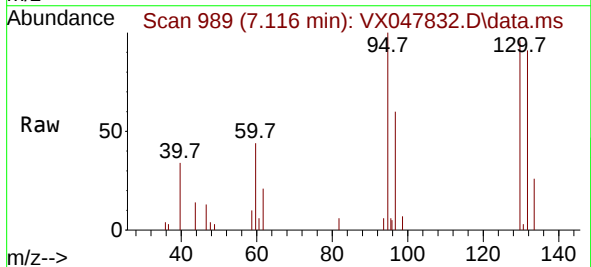


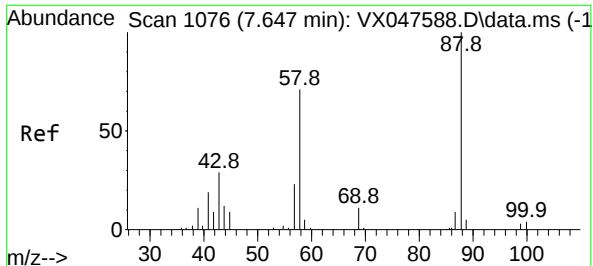
Tgt Ion:117 Resp: 15596
Ion Ratio Lower Upper
117 100
119 6.0 73.4 110.2#
121 0.0 23.8 35.6#



#44
Trichloroethene
Concen: 1.969 ug/l
RT: 7.116 min Scan# 989
Delta R.T. 0.006 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

Tgt Ion:130 Resp: 4335
Ion Ratio Lower Upper
130 100
95 109.7 0.0 210.8





#49

1,4-Dioxane

Concen: 23.539 ug/l

RT: 7.665 min Scan# 1079

Delta R.T. 0.018 min

Lab File: VX047832.D

Acq: 26 Sep 2025 04:34

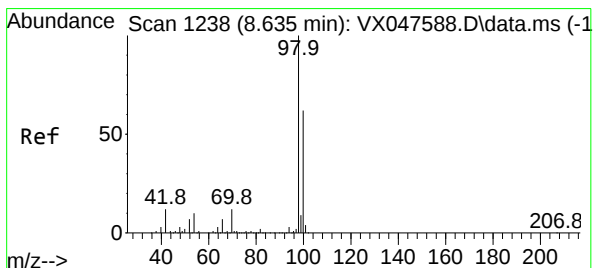
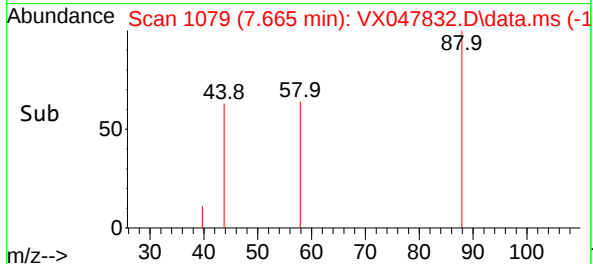
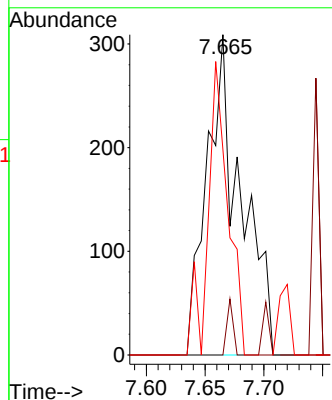
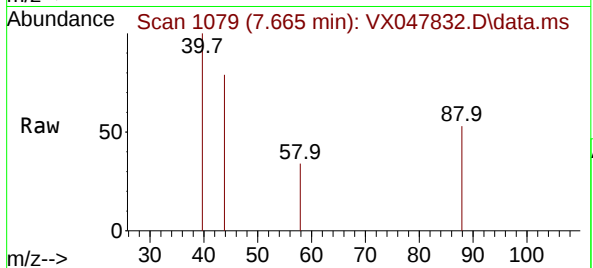
Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20250918

Tgt Ion:	88	Resp:	624
Ion	Ratio	Lower	Upper
88	100		
43	3.2	30.2	45.2#
58	54.0	59.5	89.3#



#50

Toluene-d8

Concen: 49.647 ug/l

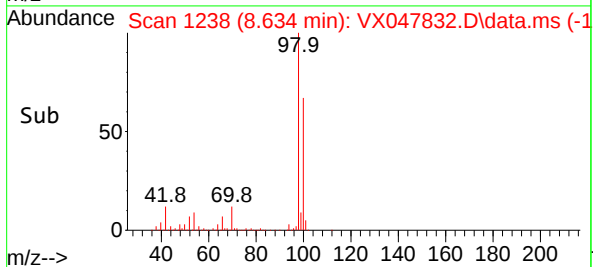
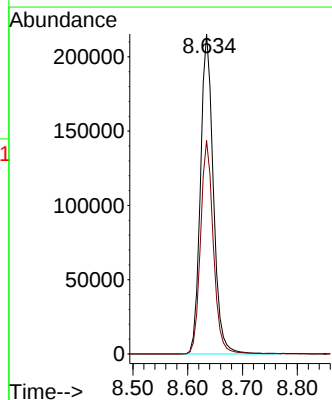
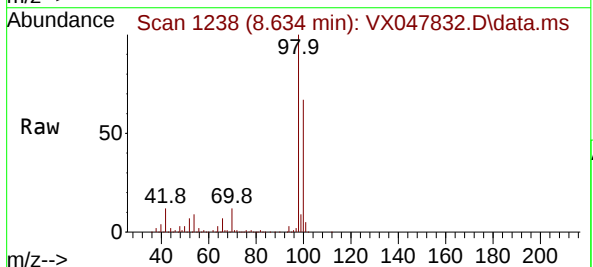
RT: 8.634 min Scan# 1238

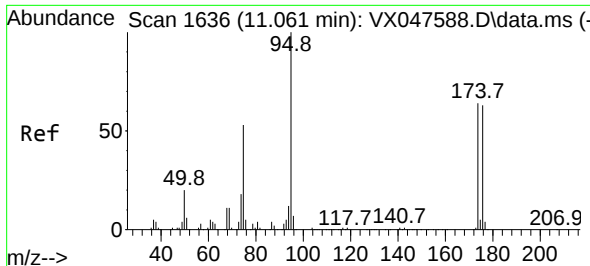
Delta R.T. -0.000 min

Lab File: VX047832.D

Acq: 26 Sep 2025 04:34

Tgt Ion:	98	Resp:	352564
Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4

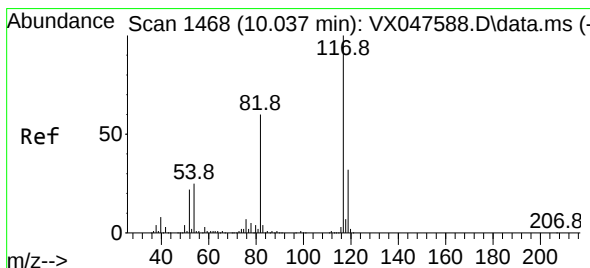
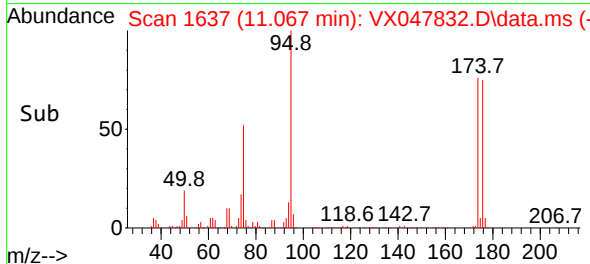
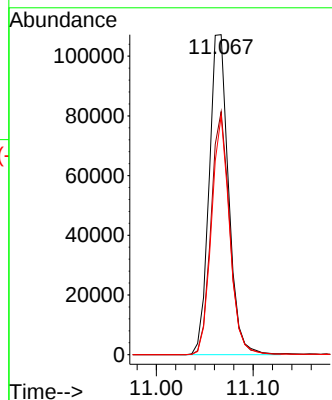
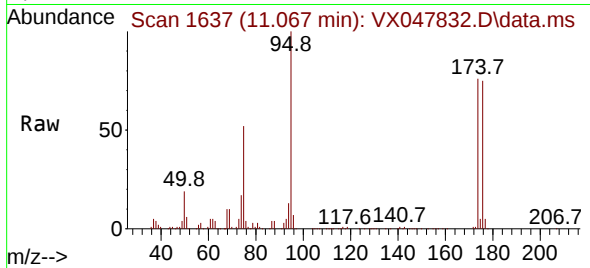




#62
4-Bromofluorobenzene
Concen: 55.547 ug/l
RT: 11.067 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

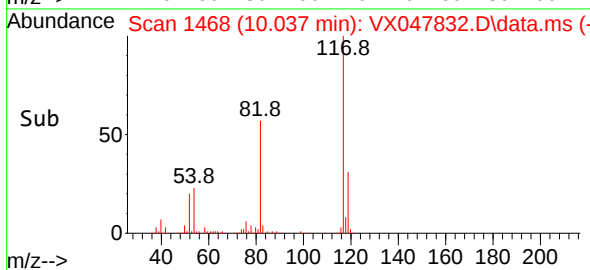
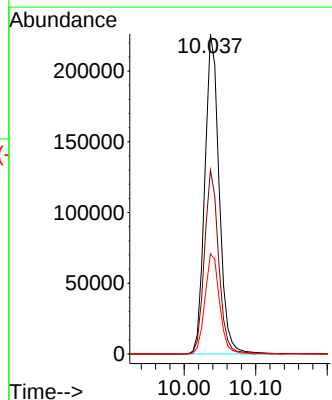
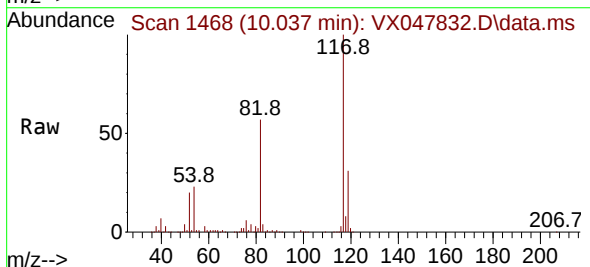
Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20250918

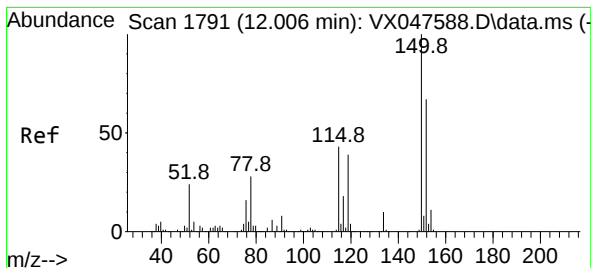
Tgt Ion: 95 Resp: 149703
Ion Ratio Lower Upper
95 100
174 73.2 0.0 141.6
176 69.8 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

Tgt Ion: 117 Resp: 316716
Ion Ratio Lower Upper
117 100
82 57.5 47.8 71.6
119 31.3 25.2 37.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX047832.D

Acq: 26 Sep 2025 04:34

Instrument :

MSVOA_X

ClientSampleId :

RE132D2-20250918

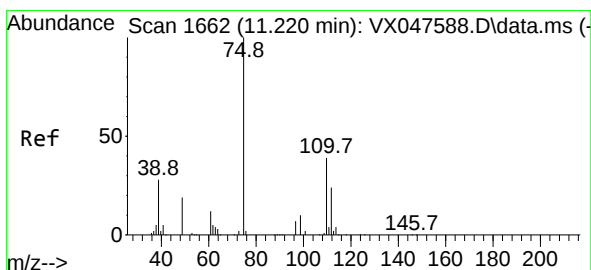
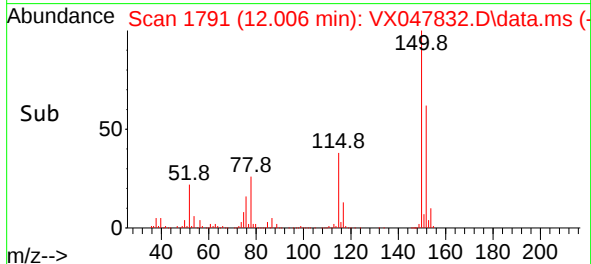
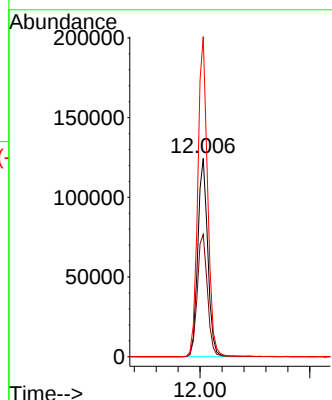
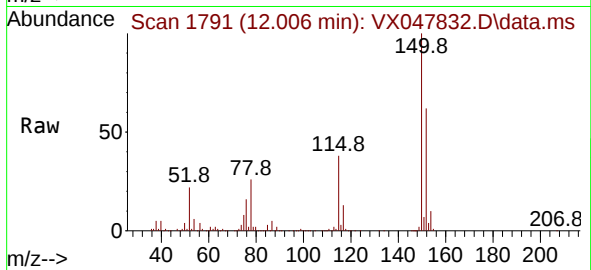
Tgt Ion:152 Resp: 157952

Ion Ratio Lower Upper

152 100

115 62.9 44.9 134.5

150 158.8 0.0 352.0



#76

1,2,3-Trichloropropane

Concen: 24.497 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.159 min

Lab File: VX047832.D

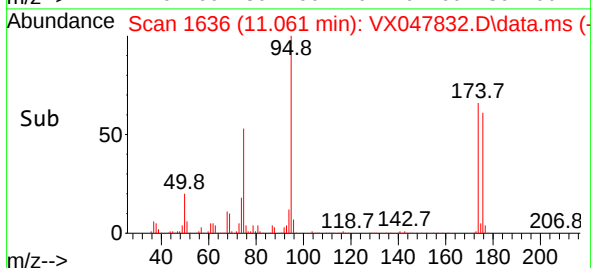
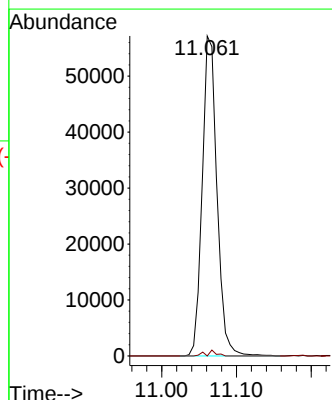
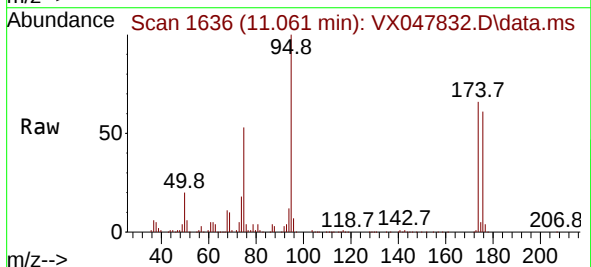
Acq: 26 Sep 2025 04:34

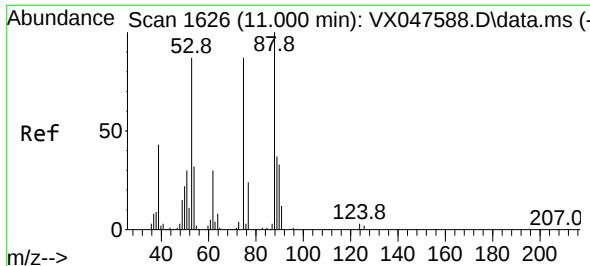
Tgt Ion: 75 Resp: 78342

Ion Ratio Lower Upper

75 100

77 1.2 18.8 56.4#

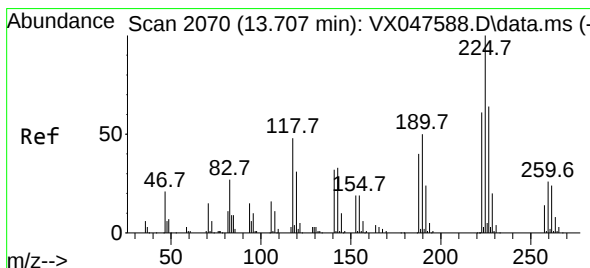
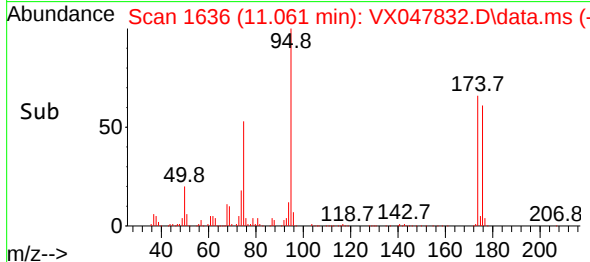
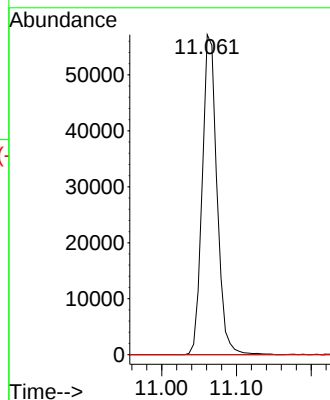
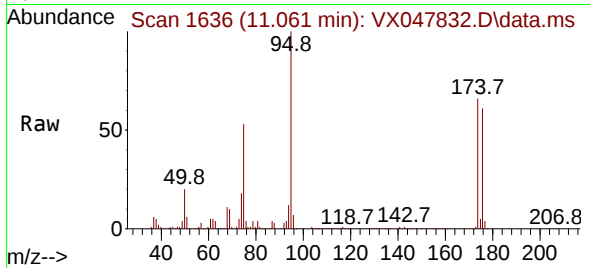




#81
trans-1,4-Dichloro-2-butene
Concen: 62.471 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

Instrument :
MSVOA_X
ClientSampleId :
RE132D2-20250918

Tgt Ion: 75 Resp: 78342
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#



#94
Hexachlorobutadiene
Concen: 0.264 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX047832.D
Acq: 26 Sep 2025 04:34

Tgt Ion: 225 Resp: 305
Ion Ratio Lower Upper
225 100
223 45.2 31.7 95.1
227 26.9 32.0 96.0#

