

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102425\
 Data File : VX048343.D
 Acq On : 24 Oct 2025 11:03
 Operator : JC/MD
 Sample : Q3399-04RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-ROLLOFF

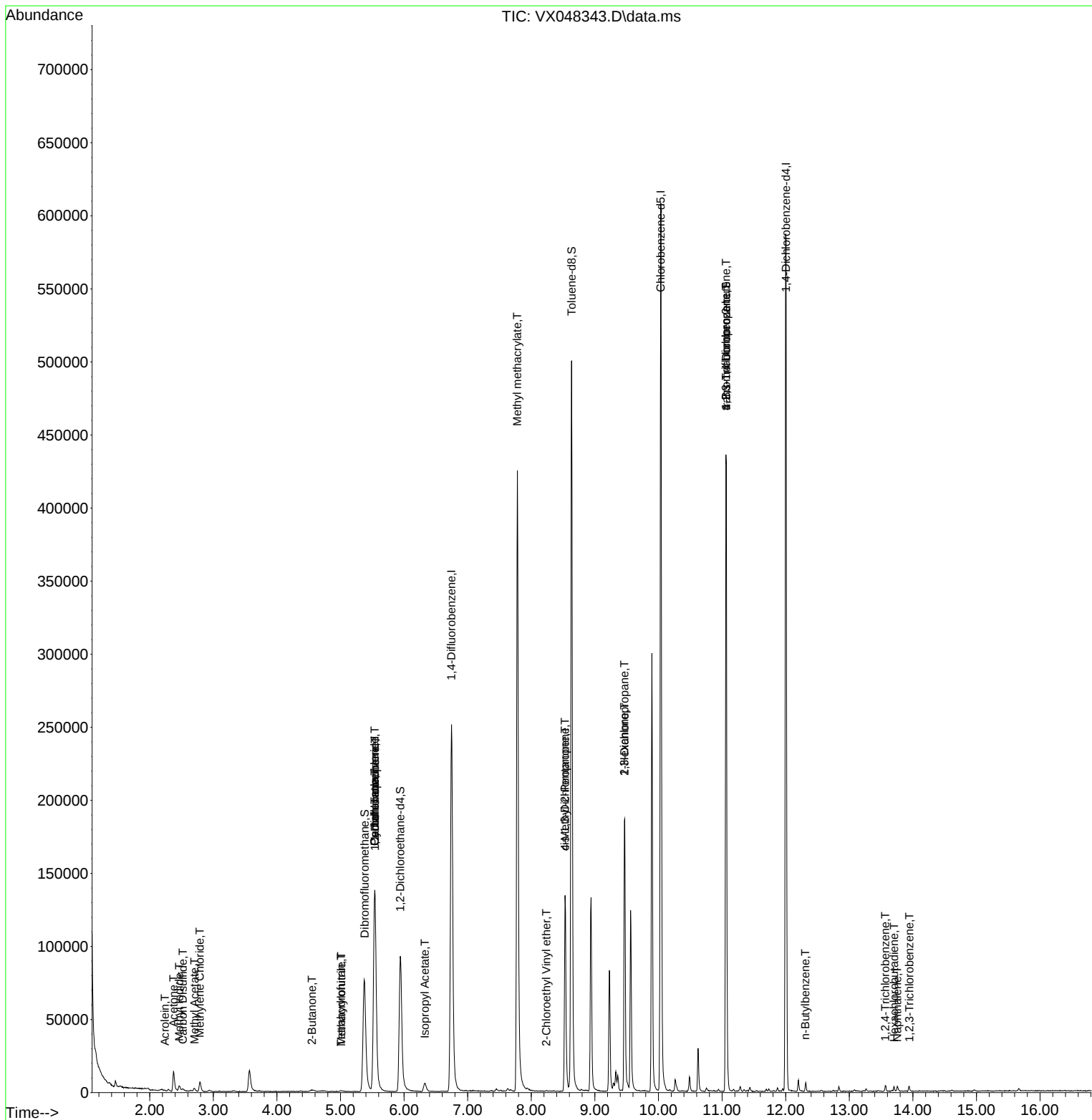
Quant Time: Oct 24 23:02:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

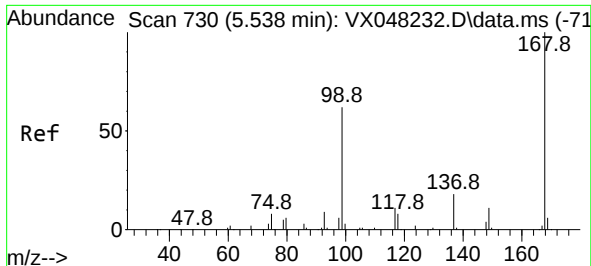
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.538	168	137283	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	270507	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	270324	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	123520	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	104937	54.518	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 109.040%	
35) Dibromofluoromethane	5.379	113	73601	39.855	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 79.700%	
50) Toluene-d8	8.635	98	305004	47.119	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 94.240%	
62) 4-Bromofluorobenzene	11.061	95	124188	50.431	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 100.860%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	2.465	142	4846	2.602	ug/l	98
13) Acrolein	2.239	56	108	0.554	ug/l #	46
16) Acetone	2.374	43	18583	28.142	ug/l	95
17) Carbon Disulfide	2.520	76	1185	0.261	ug/l #	94
18) Methyl Acetate	2.703	43	3602	2.612	ug/l #	90
20) Methylene Chloride	2.788	84	3286	2.042	ug/l	90
25) 2-Butanone	4.550	43	817	0.978	ug/l #	75
29) Tetrahydrofuran	5.007	42	230	0.459	ug/l #	62
31) Cyclohexane	5.538	56	3528	1.477	ug/l #	36
36) 1,1-Dichloropropene	5.544	75	11615	4.425	ug/l #	51
38) Carbon Tetrachloride	5.538	117	14802	4.571	ug/l #	15
41) Methacrylonitrile	5.013	41	311	0.272	ug/l #	48
43) Isopropyl Acetate	6.324	43	9305	2.604	ug/l	98
48) Methyl methacrylate	7.781	41	43783	24.279	ug/l #	46
51) 4-Methyl-2-Pentanone	8.531	43	51890	25.183	ug/l #	51
54) cis-1,3-Dichloropropene	8.531	75	22276	7.030	ug/l #	65
57) 1,3-Dichloropropane	9.464	76	1790	0.582	ug/l #	43
58) 2-Chloroethyl Vinyl ether	8.238	63	266	1.884	ug/l #	47
59) 2-Hexanone	9.464	43	25661	17.860	ug/l #	53
76) 1,2,3-Trichloropropane	11.061	75	67116	33.506	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.061	75	67116	81.519	ug/l #	10
89) n-Butylbenzene	12.311	91	2005	0.276	ug/l	97
93) 1,2,4-Trichlorobenzene	13.567	180	953	0.352	ug/l	96
94) Hexachlorobutadiene	13.707	225	576	0.634	ug/l	91
95) Naphthalene	13.756	128	2575	0.359	ug/l	97
96) 1,2,3-Trichlorobenzene	13.945	180	895	0.360	ug/l	92

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

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

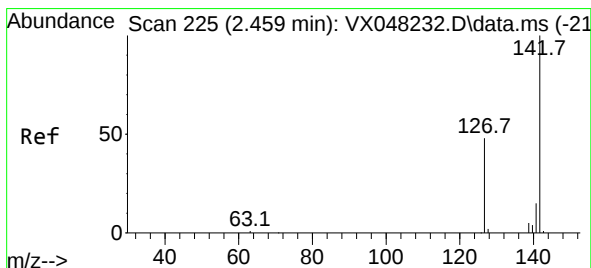
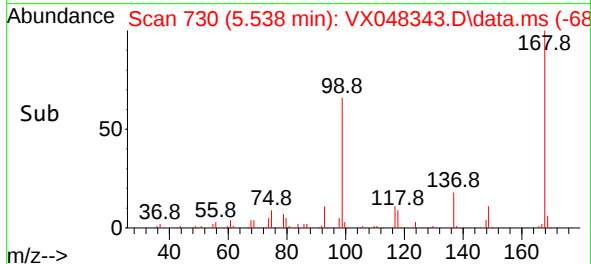
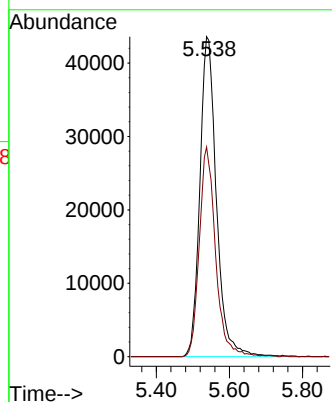
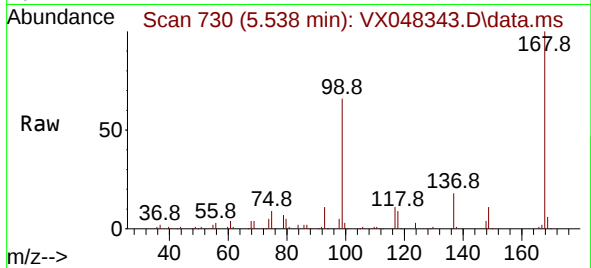




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

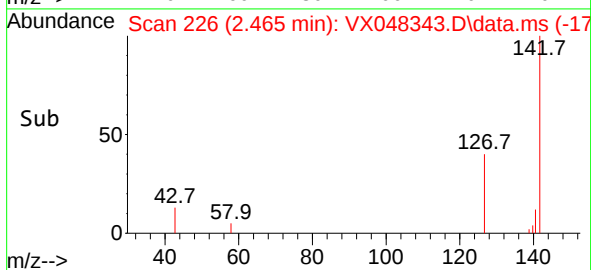
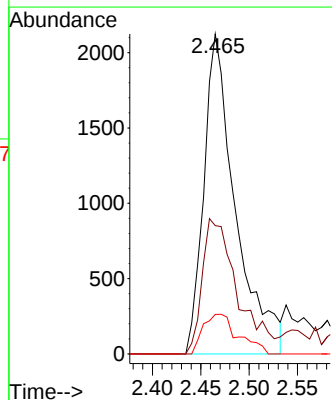
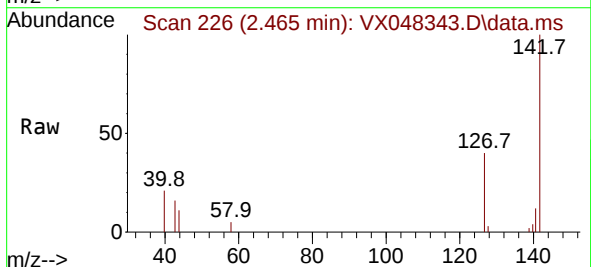
Instrument :
MSVOA_X
ClientSampleId :
COMP-ROLLOFF

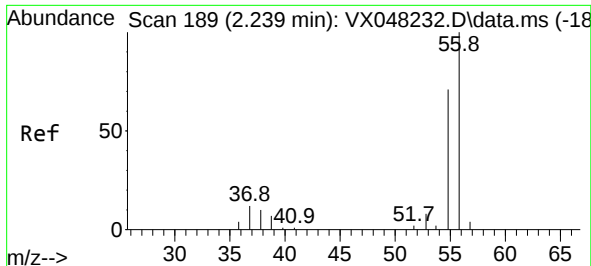
Tgt Ion:168 Resp: 137283
Ion Ratio Lower Upper
168 100
99 65.5 46.4 69.6



#10
Methyl Iodide
Concen: 2.602 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.006 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

Tgt Ion:142 Resp: 4846
Ion Ratio Lower Upper
142 100
127 46.8 38.5 57.7
141 13.7 11.6 17.4

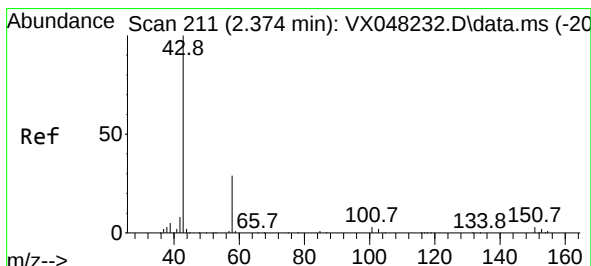
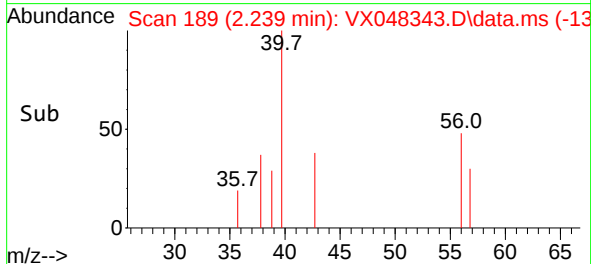
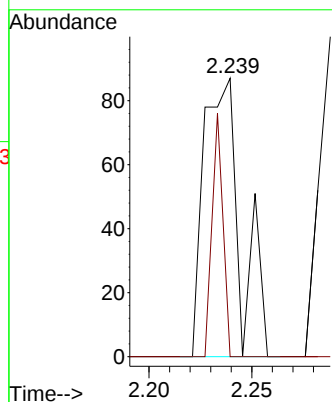
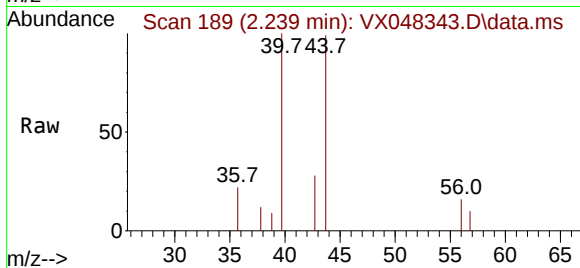




#13
Acrolein
Concen: 0.554 ug/l
RT: 2.239 min Scan# 189
Delta R.T. 0.006 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

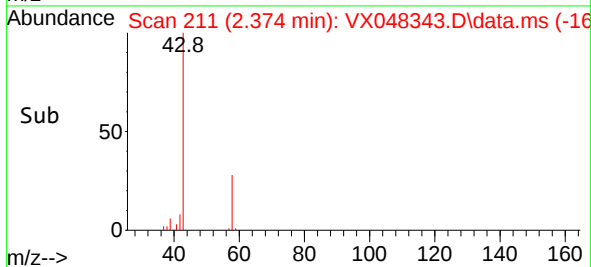
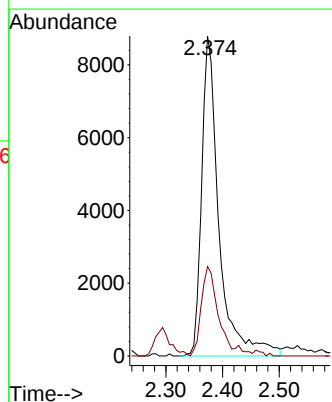
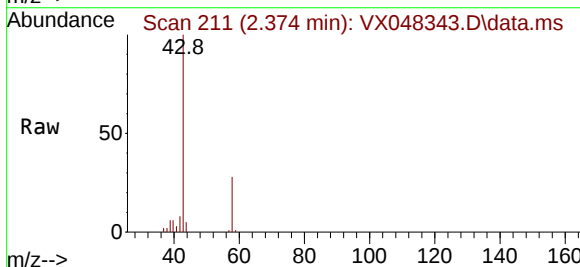
Instrument :
MSVOA_X
ClientSampleId :
COMP-ROLLOFF

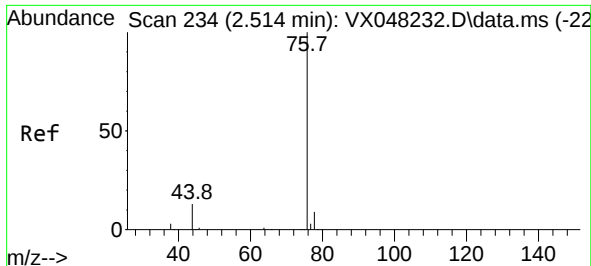
Tgt Ion: 56 Resp: 108
Ion Ratio Lower Upper
56 100
55 25.9 56.1 84.1#



#16
Acetone
Concen: 28.142 ug/l
RT: 2.374 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

Tgt Ion: 43 Resp: 18583
Ion Ratio Lower Upper
43 100
58 26.6 23.4 35.2

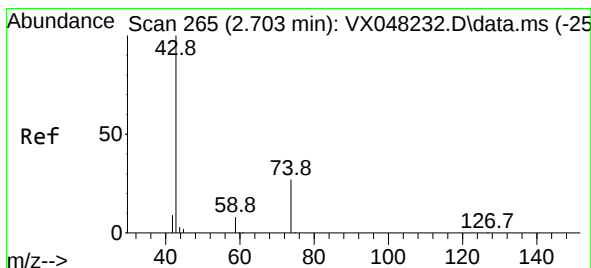
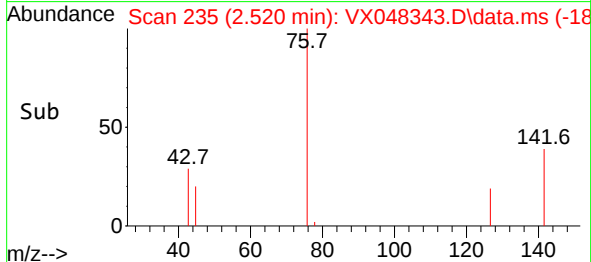
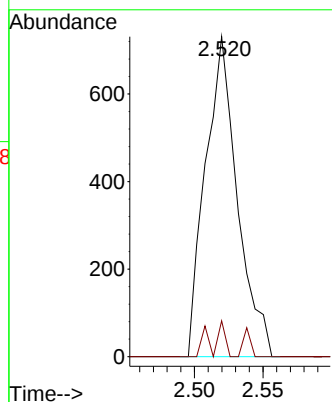
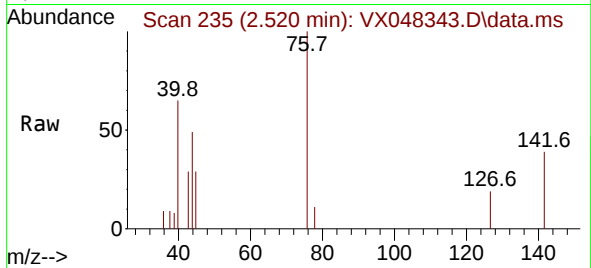




#17
Carbon Disulfide
Concen: 0.261 ug/l
RT: 2.520 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

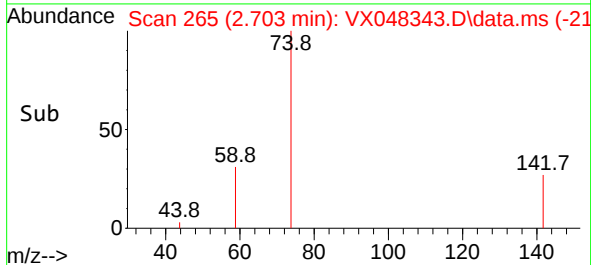
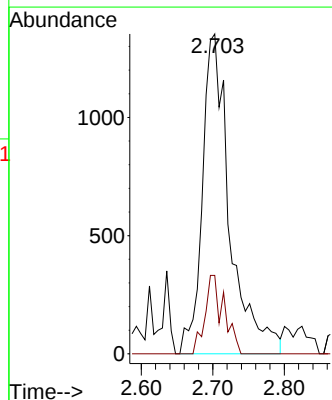
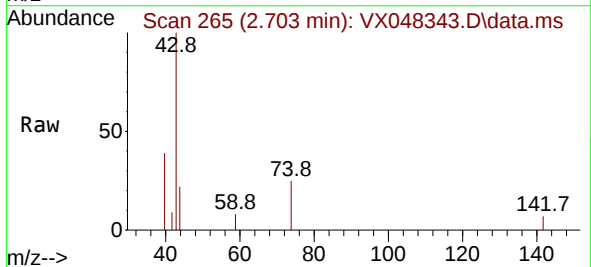
Instrument :
MSVOA_X
ClientSampleId :
COMP-ROLLOFF

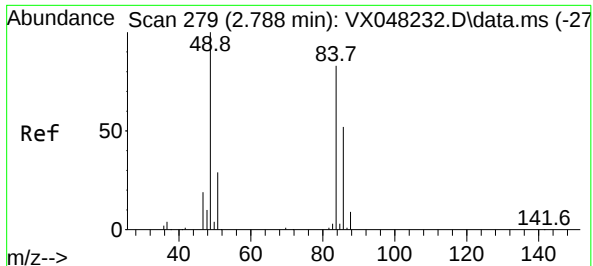
Tgt Ion: 76 Resp: 1185
Ion Ratio Lower Upper
76 100
78 11.2 7.1 10.7#



#18
Methyl Acetate
Concen: 2.612 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

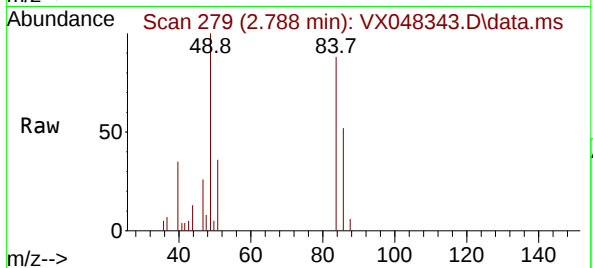
Tgt Ion: 43 Resp: 3602
Ion Ratio Lower Upper
43 100
74 17.0 17.5 26.3#





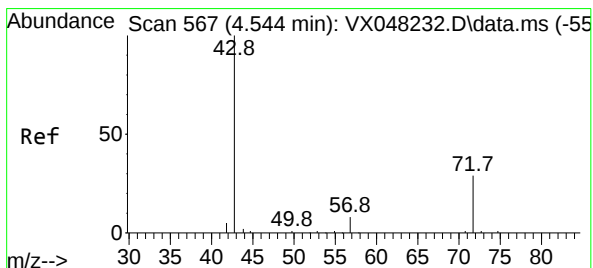
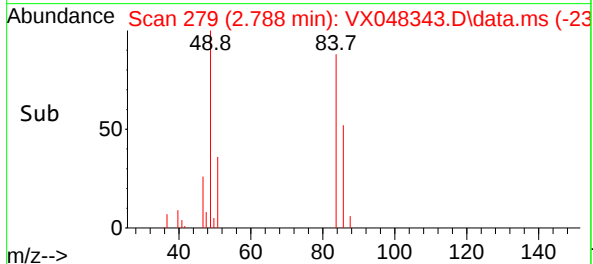
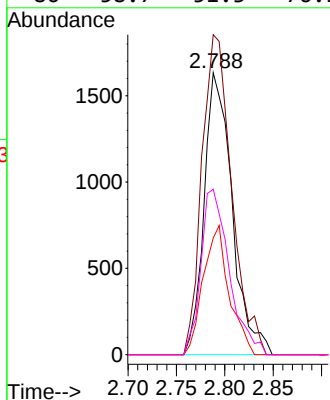
#20
Methylene Chloride
Concen: 2.042 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

Instrument :
MSVOA_X
ClientSampleId :
COMP-ROLLOFF



Tgt Ion: 84 Resp: 3286

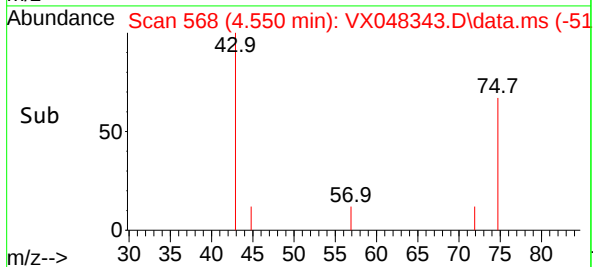
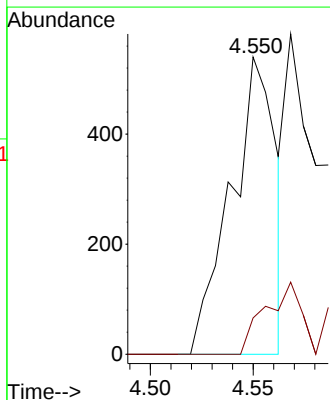
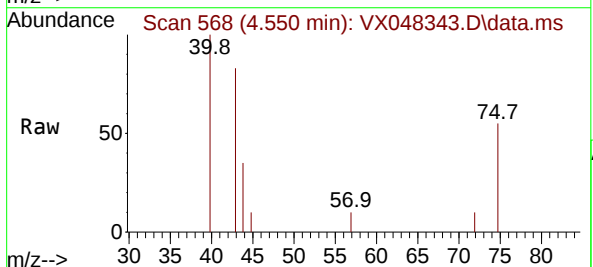
Ion	Ratio	Lower	Upper
84	100		
49	113.5	104.1	156.1
51	41.4	31.3	46.9
86	58.7	51.3	76.9

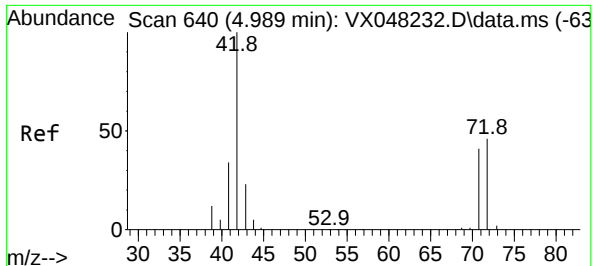


#25
2-Butanone
Concen: 0.978 ug/l
RT: 4.550 min Scan# 568
Delta R.T. 0.012 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

Tgt Ion: 43 Resp: 817

Ion	Ratio	Lower	Upper
43	100		
72	12.2	19.9	29.9





#29

Tetrahydrofuran

Concen: 0.459 ug/l

RT: 5.007 min Scan# 64

Delta R.T. 0.018 min

Lab File: VX048343.D

Acq: 24 Oct 2025 11:03

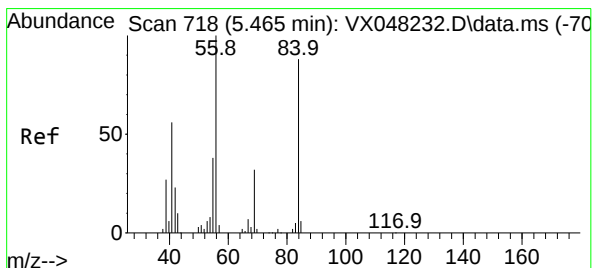
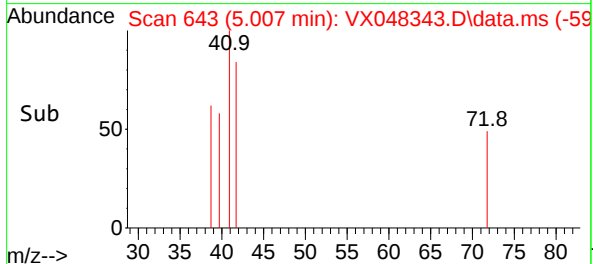
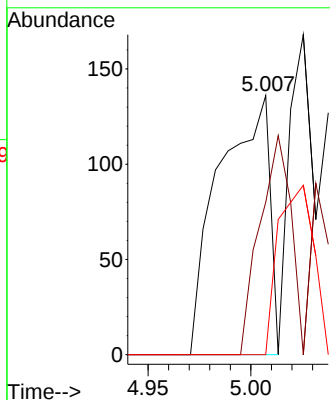
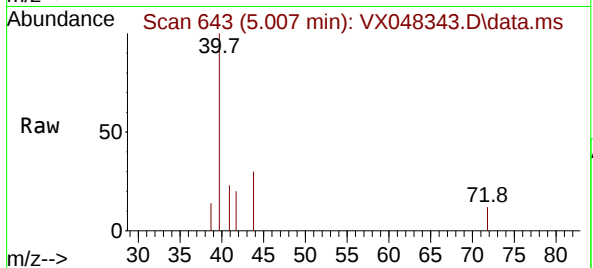
Instrument :

MSVOA_X

ClientSampleId :

COMP-ROLLOFF

Tgt Ion:	42	Resp:	230
Ion	Ratio	Lower	Upper
42	100		
72	52.6	35.3	52.9
71	0.0	32.2	48.4#



#31

Cyclohexane

Concen: 1.477 ug/l

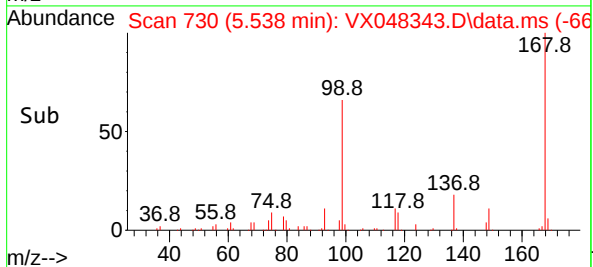
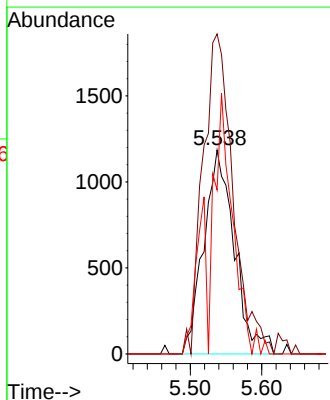
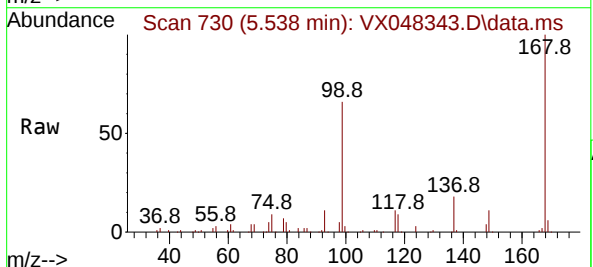
RT: 5.538 min Scan# 730

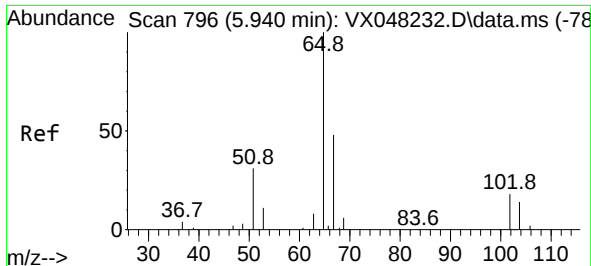
Delta R.T. 0.079 min

Lab File: VX048343.D

Acq: 24 Oct 2025 11:03

Tgt Ion:	56	Resp:	3528
Ion	Ratio	Lower	Upper
56	100		
69	157.0	23.0	34.6#
84	80.4	64.6	97.0





#33

1,2-Dichloroethane-d4

Concen: 54.518 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX048343.D

Acq: 24 Oct 2025 11:03

Instrument :

MSVOA_X

ClientSampleId :

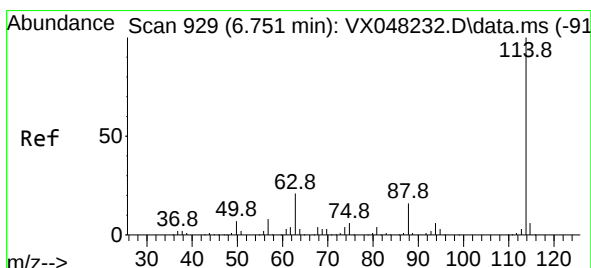
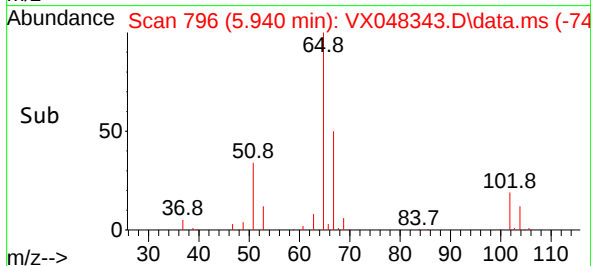
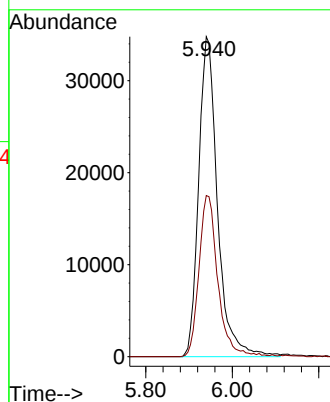
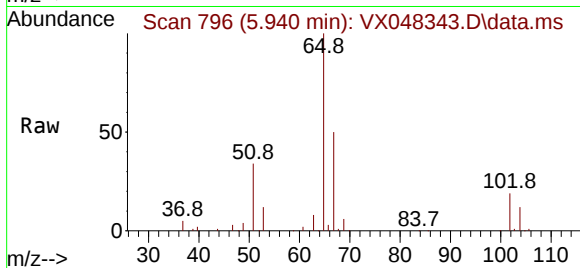
COMP-ROLLOFF

Tgt Ion: 65 Resp: 104937

Ion Ratio Lower Upper

65 100

67 50.4 0.0 105.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048343.D

Acq: 24 Oct 2025 11:03

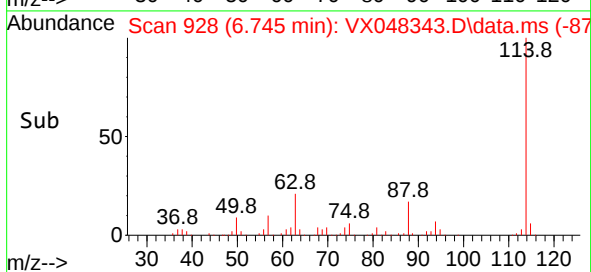
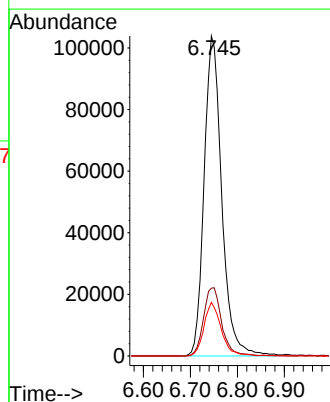
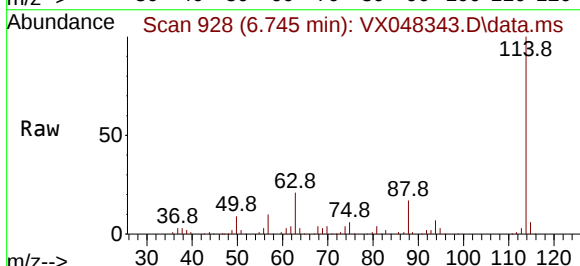
Tgt Ion: 114 Resp: 270507

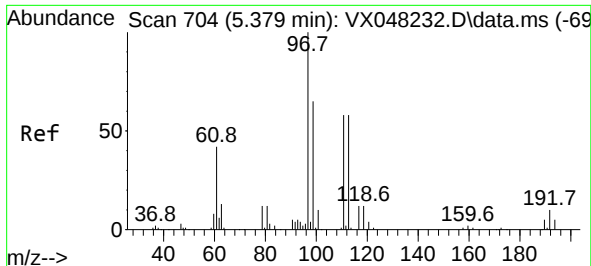
Ion Ratio Lower Upper

114 100

63 21.2 0.0 43.2

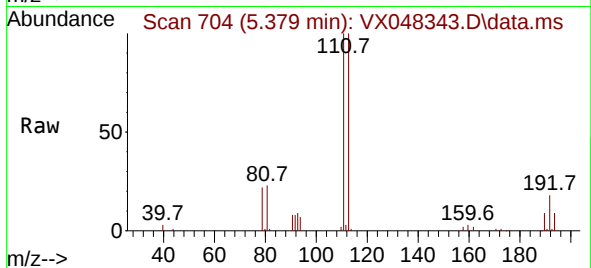
88 16.8 0.0 33.6



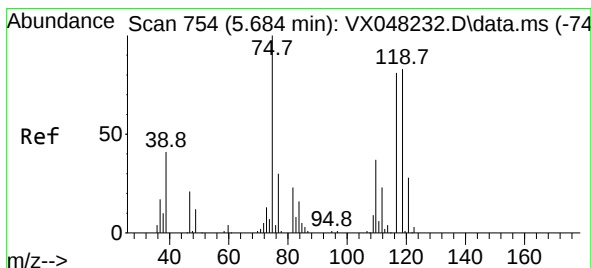
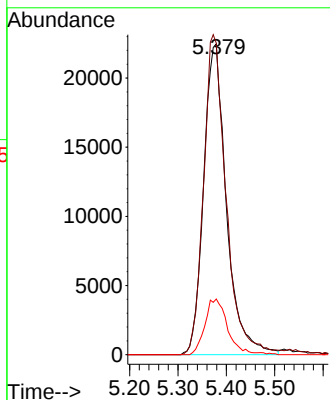
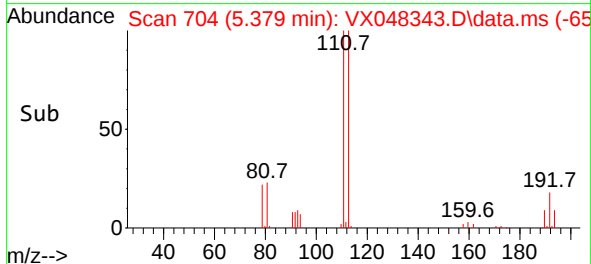


#35
Dibromofluoromethane
Concen: 39.855 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

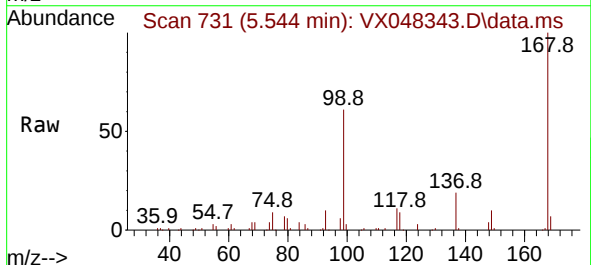
Instrument :
MSVOA_X
ClientSampleId :
COMP-ROLLOFF



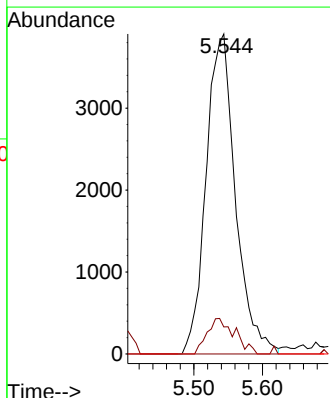
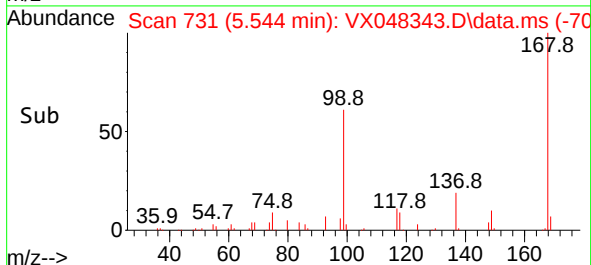
Tgt Ion:113 Resp: 73601
Ion Ratio Lower Upper
113 100
111 101.7 82.2 123.4
192 17.9 15.1 22.7

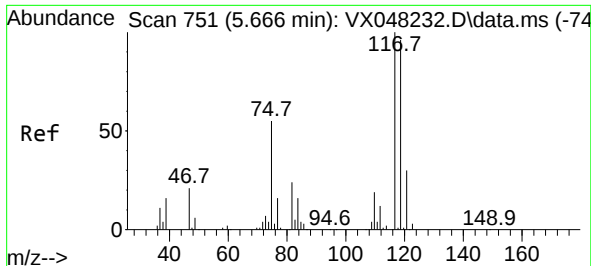


#36
1,1-Dichloropropene
Concen: 4.425 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03



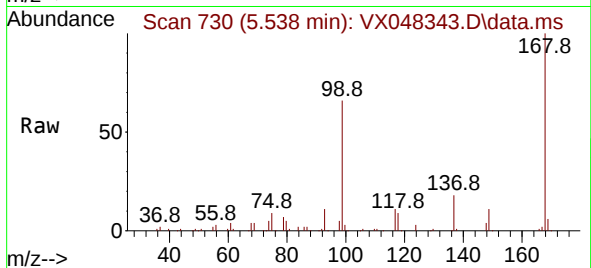
Tgt Ion: 75 Resp: 11615
Ion Ratio Lower Upper
75 100
110 10.5 17.7 53.1#
77 0.0 24.3 36.5#



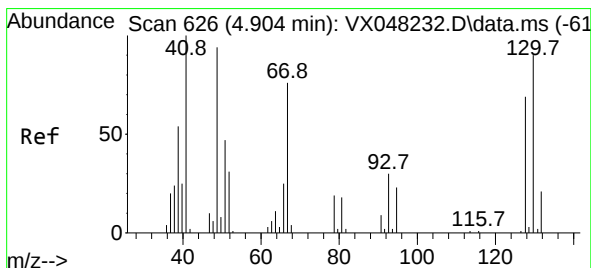
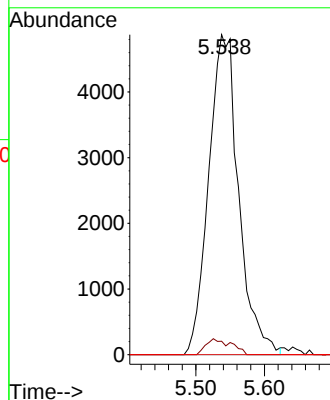
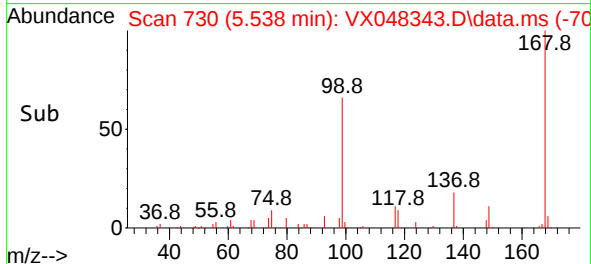


#38
Carbon Tetrachloride
Concen: 4.571 ug/l
RT: 5.538 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

Instrument :
MSVOA_X
ClientSampleId :
COMP-ROLLOFF

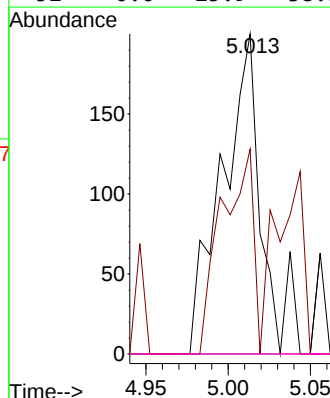
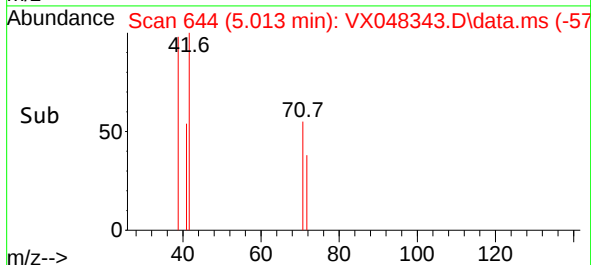
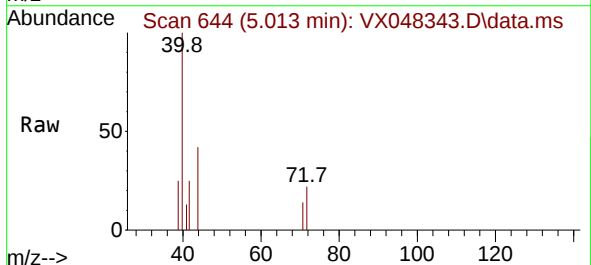


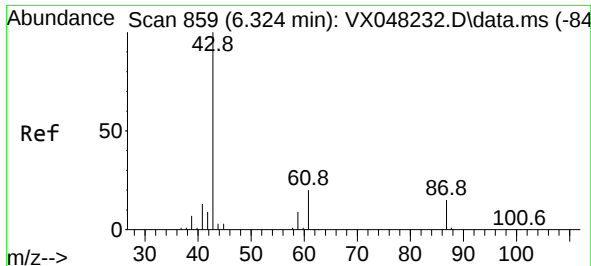
Tgt Ion:117 Resp: 14802
Ion Ratio Lower Upper
117 100
119 4.2 77.2 115.8#
121 0.0 24.8 37.2#



#41
Methacrylonitrile
Concen: 0.272 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.110 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

Tgt Ion: 41 Resp: 311
Ion Ratio Lower Upper
41 100
39 55.3 44.0 66.0
67 0.0 58.7 88.1#
52 0.0 25.9 38.9#

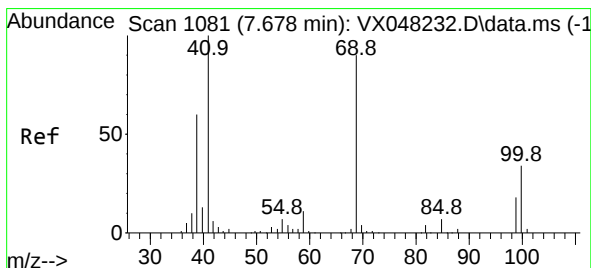
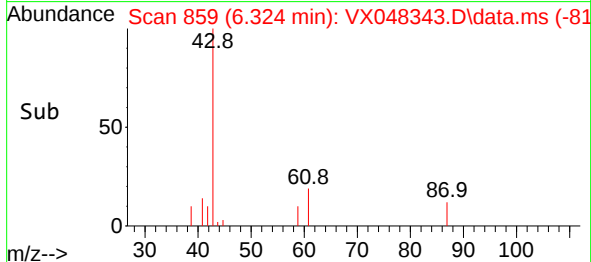
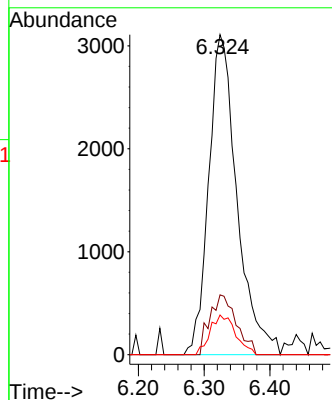
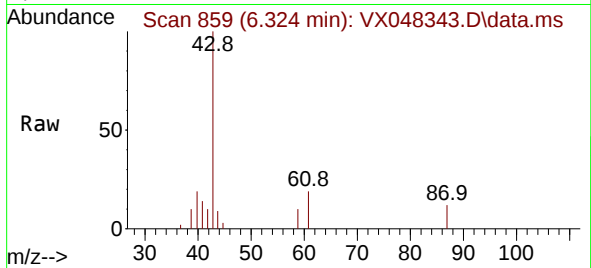




#43
Isopropyl Acetate
Concen: 2.604 ug/l
RT: 6.324 min Scan# 859
Delta R.T. -0.000 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

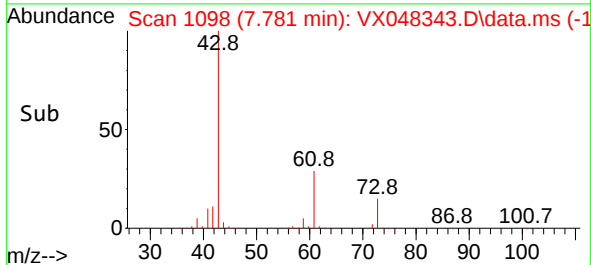
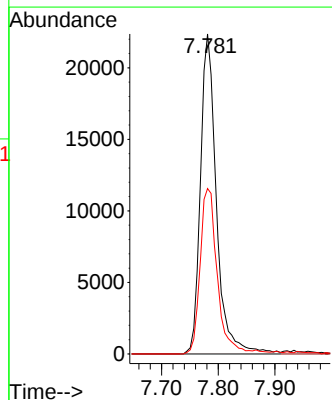
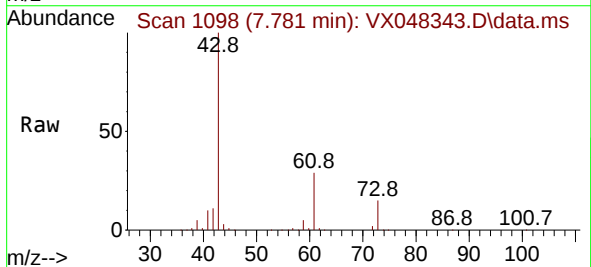
Instrument :
MSVOA_X
ClientSampleId :
COMP-ROLLOFF

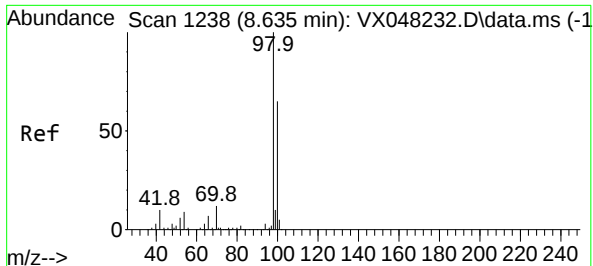
Tgt Ion: 43 Resp: 9305
Ion Ratio Lower Upper
43 100
61 17.6 14.9 22.3
87 11.1 9.4 14.2



#48
Methyl methacrylate
Concen: 24.279 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.104 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

Tgt Ion: 41 Resp: 43783
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.0#
39 55.0 47.1 70.7

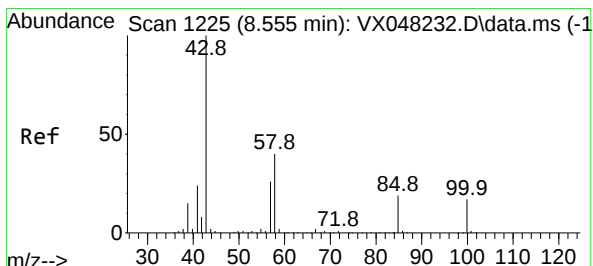
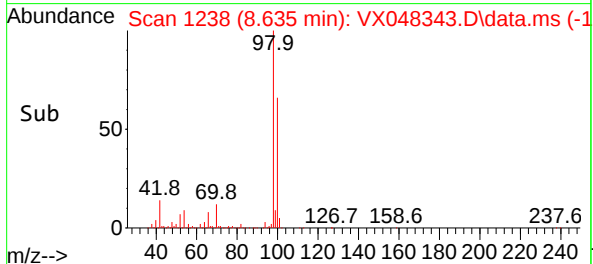
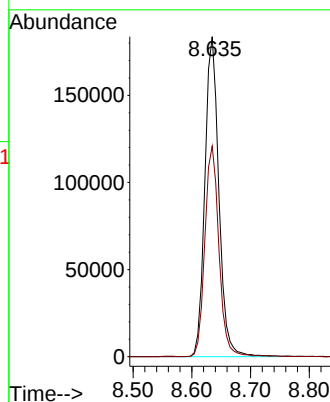
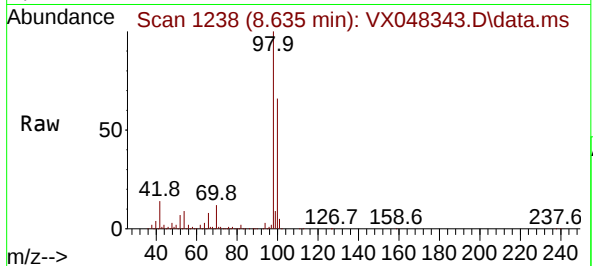




#50
Toluene-d8
Concen: 47.119 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

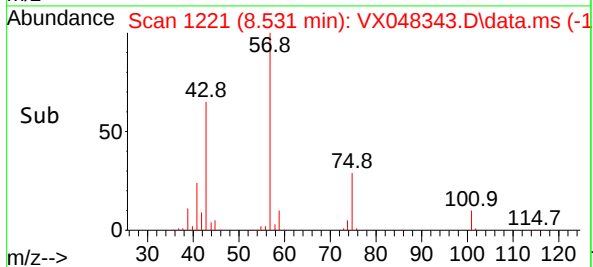
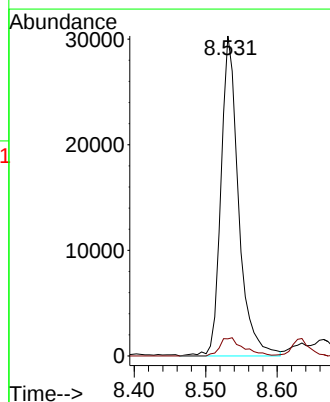
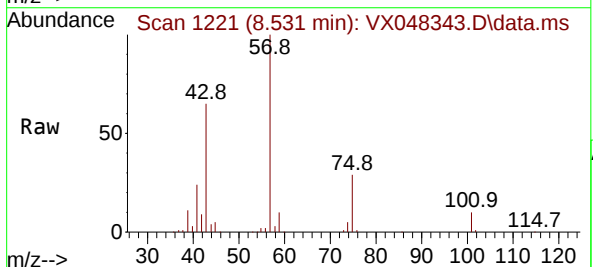
Instrument :
MSVOA_X
ClientSampleId :
COMP-ROLLOFF

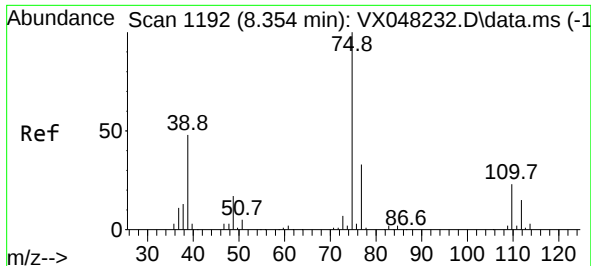
Tgt Ion: 98 Resp: 305004
Ion Ratio Lower Upper
98 100
100 66.1 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 25.183 ug/l
RT: 8.531 min Scan# 1221
Delta R.T. -0.024 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

Tgt Ion: 43 Resp: 51890
Ion Ratio Lower Upper
43 100
58 7.6 29.5 44.3#

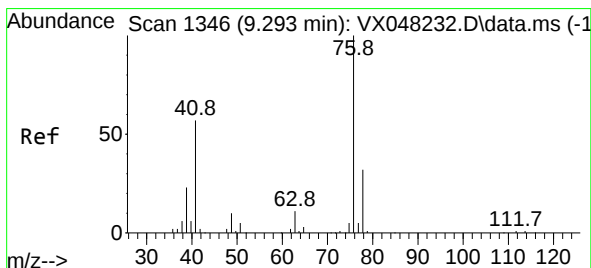
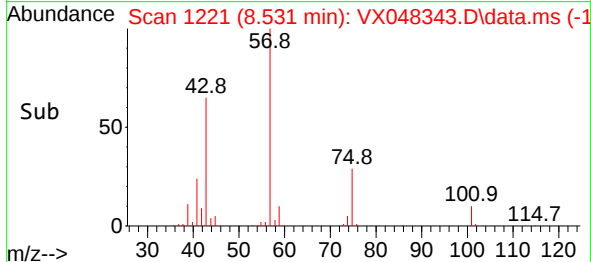
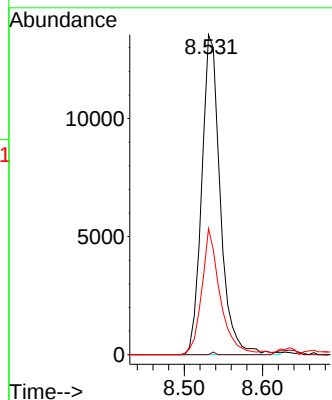
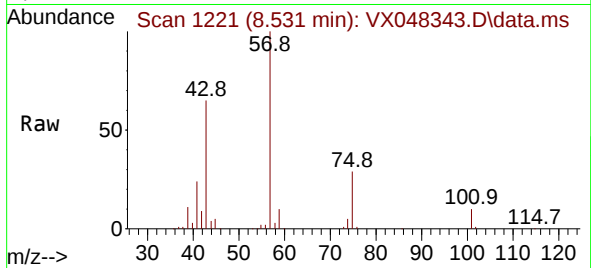




#54
 cis-1,3-Dichloropropene
 Concen: 7.030 ug/l
 RT: 8.531 min Scan# 1192
 Delta R.T. 0.183 min
 Lab File: VX048343.D
 Acq: 24 Oct 2025 11:03

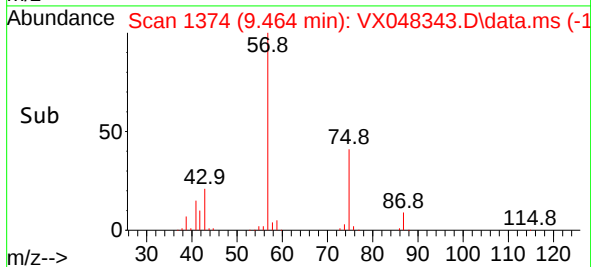
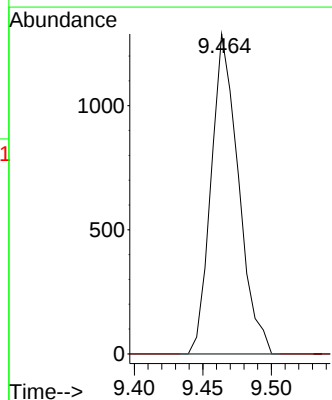
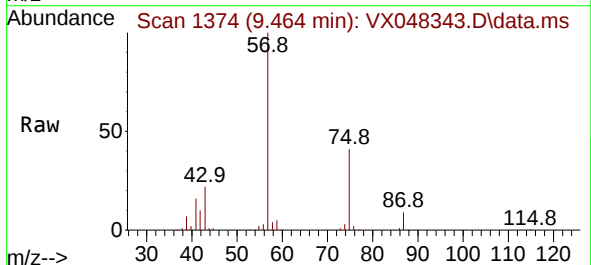
Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-ROLLOFF

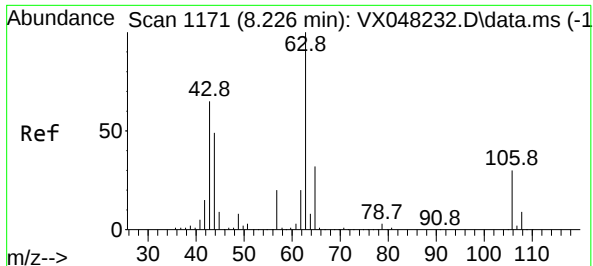
Tgt Ion: 75 Resp: 22276
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.9 37.3#
 39 37.7 42.6 64.0#



#57
 1,3-Dichloropropane
 Concen: 0.582 ug/l
 RT: 9.464 min Scan# 1374
 Delta R.T. 0.171 min
 Lab File: VX048343.D
 Acq: 24 Oct 2025 11:03

Tgt Ion: 76 Resp: 1790
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#

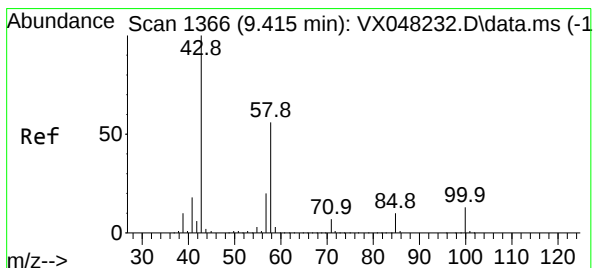
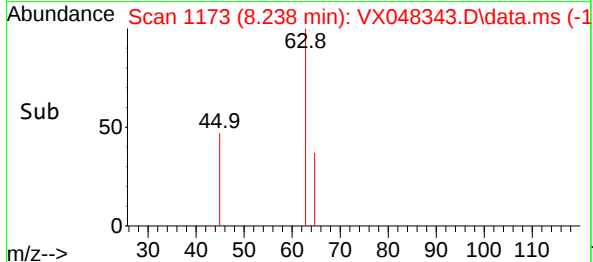
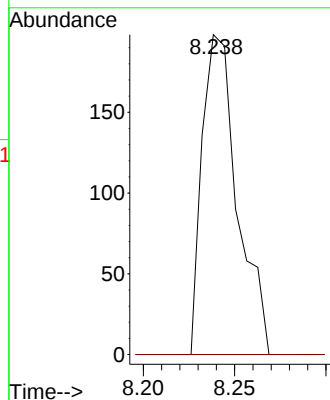
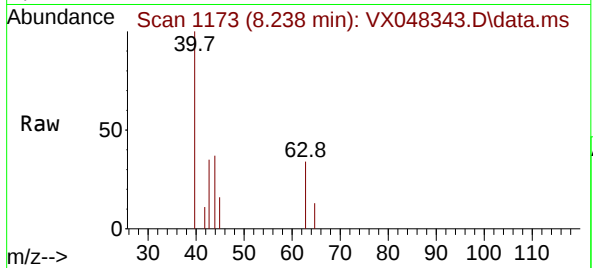




#58
2-Chloroethyl Vinyl ether
Concen: 1.884 ug/l
RT: 8.238 min Scan# 1171
Delta R.T. 0.012 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

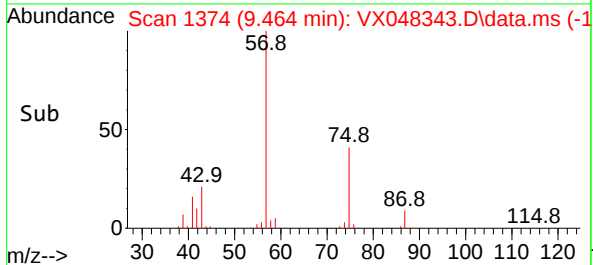
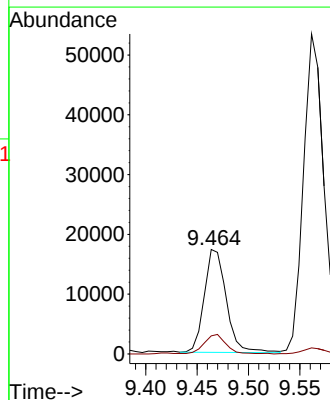
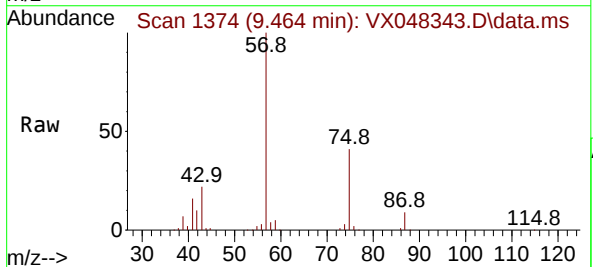
Instrument :
MSVOA_X
ClientSampleId :
COMP-ROLLOFF

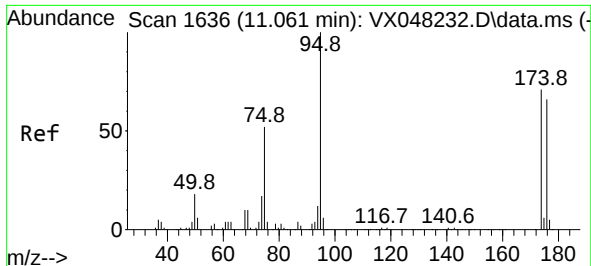
Tgt Ion: 63 Resp: 266
Ion Ratio Lower Upper
63 100
106 0.0 22.2 33.2#



#59
2-Hexanone
Concen: 17.860 ug/l
RT: 9.464 min Scan# 1374
Delta R.T. 0.049 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

Tgt Ion: 43 Resp: 25661
Ion Ratio Lower Upper
43 100
58 19.2 26.3 78.8#

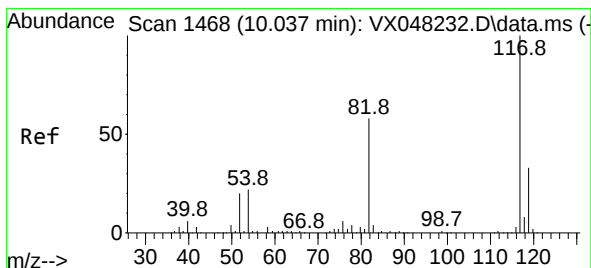
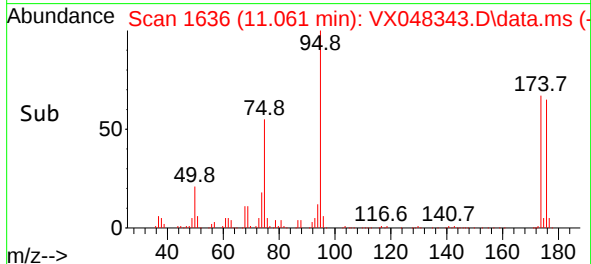
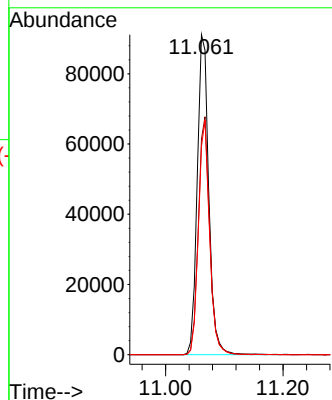
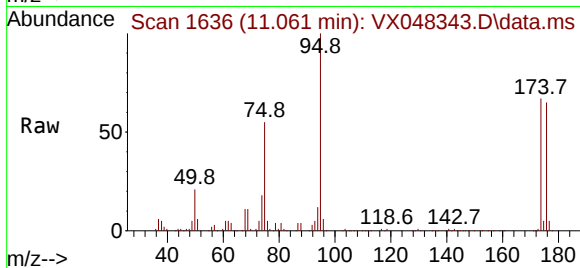




#62
4-Bromofluorobenzene
Concen: 50.431 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

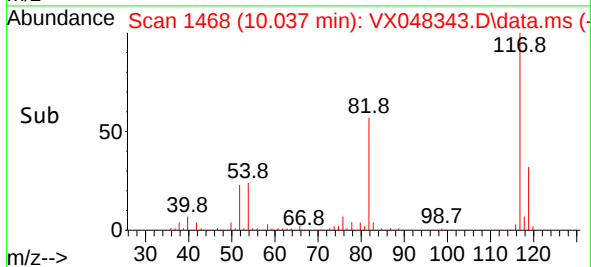
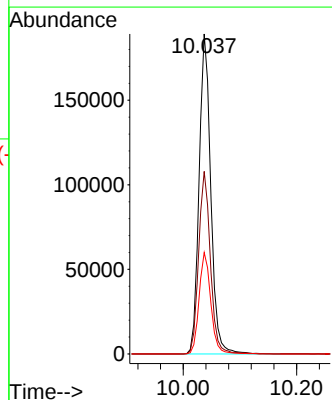
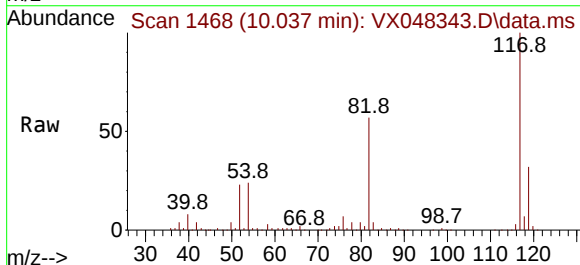
Instrument :
MSVOA_X
ClientSampleId :
COMP-ROLLOFF

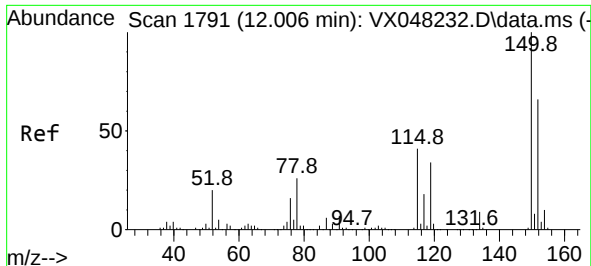
Tgt Ion: 95 Resp: 124188
Ion Ratio Lower Upper
95 100
174 73.1 0.0 147.8
176 70.7 0.0 142.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

Tgt Ion: 117 Resp: 270324
Ion Ratio Lower Upper
117 100
82 57.0 46.5 69.7
119 31.7 25.9 38.9

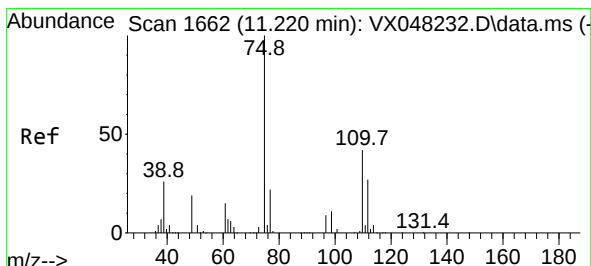
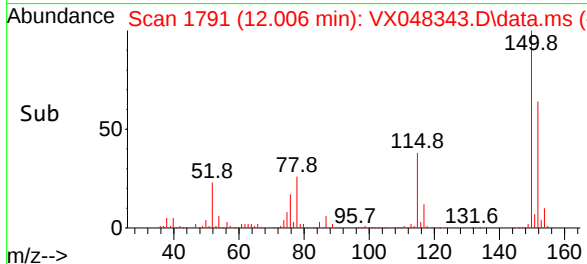
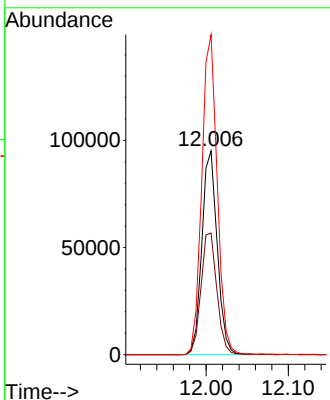
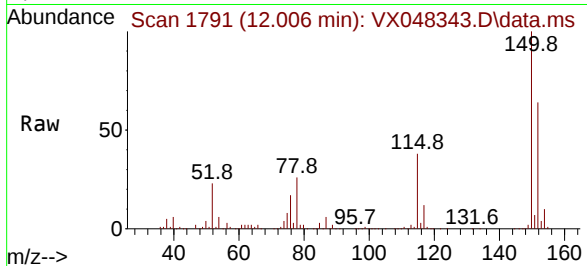




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX048343.D
 Acq: 24 Oct 2025 11:03

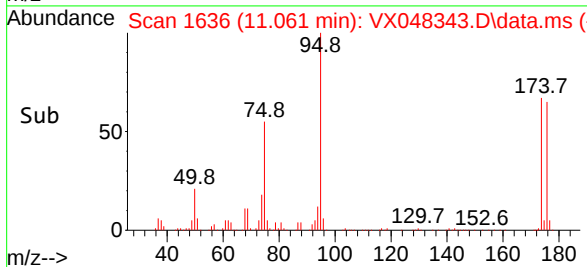
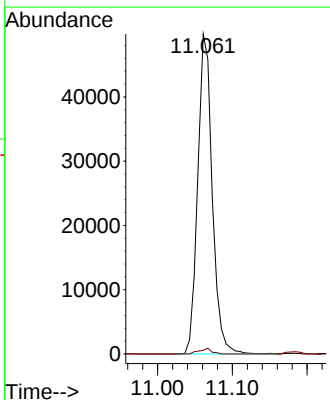
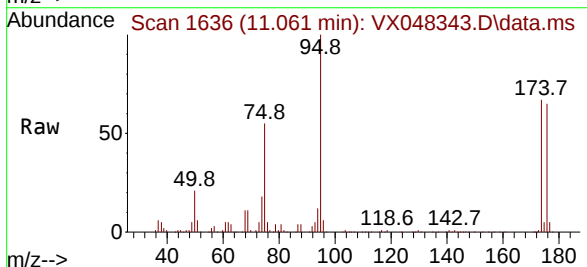
Instrument :
 MSVOA_X
 ClientSampleId :
 COMP-ROLLOFF

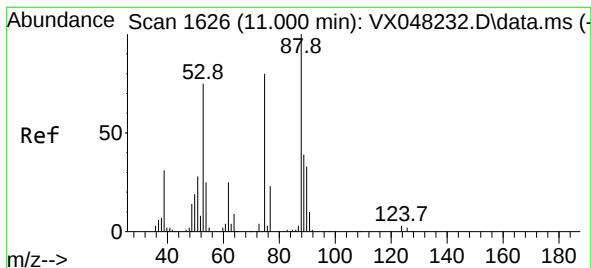
Tgt Ion:152 Resp: 123520
 Ion Ratio Lower Upper
 152 100
 115 61.7 43.1 129.4
 150 157.7 0.0 353.0



#76
 1,2,3-Trichloropropane
 Concen: 33.506 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048343.D
 Acq: 24 Oct 2025 11:03

Tgt Ion: 75 Resp: 67116
 Ion Ratio Lower Upper
 75 100
 77 1.5 22.4 67.2#

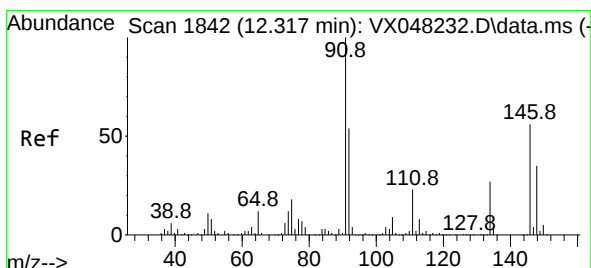
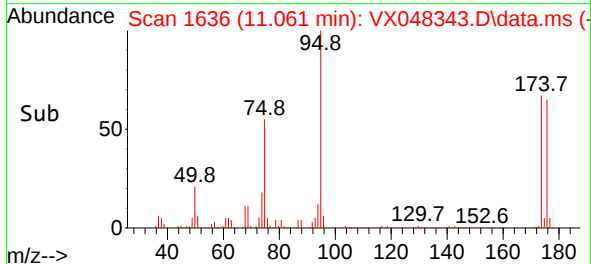
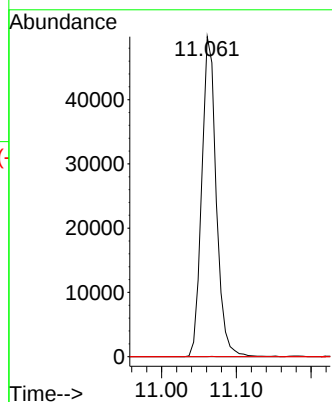
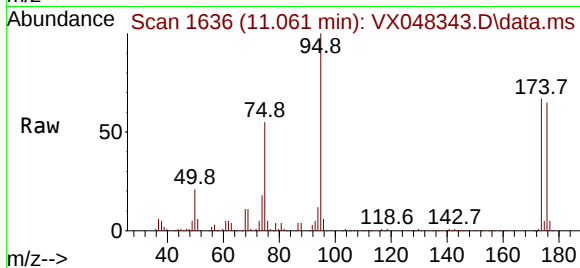




#81
trans-1,4-Dichloro-2-butene
Concen: 81.519 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

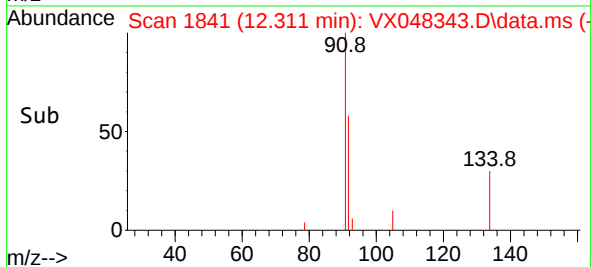
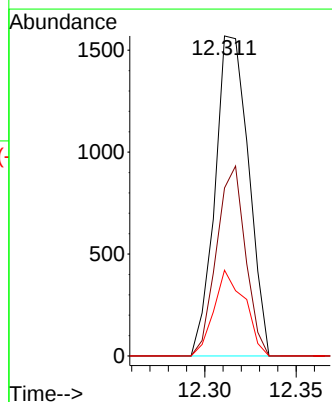
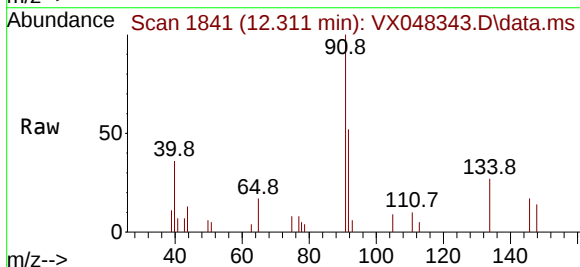
Instrument :
MSVOA_X
ClientSampleId :
COMP-ROLLOFF

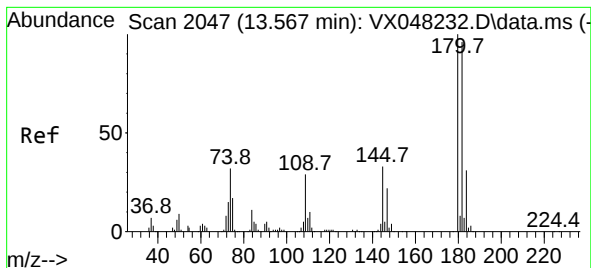
Tgt Ion: 75 Resp: 67116
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#



#89
n-Butylbenzene
Concen: 0.276 ug/l
RT: 12.311 min Scan# 1841
Delta R.T. -0.000 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

Tgt Ion: 91 Resp: 2005
Ion Ratio Lower Upper
91 100
92 51.2 26.9 80.6
134 24.7 12.7 38.1





#93

1,2,4-Trichlorobenzene

Concen: 0.352 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX048343.D

Acq: 24 Oct 2025 11:03

Instrument :

MSVOA_X

ClientSampleId :

COMP-ROLLOFF

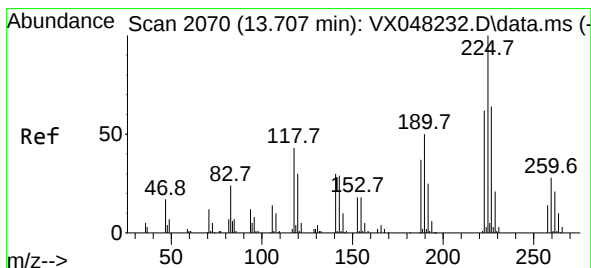
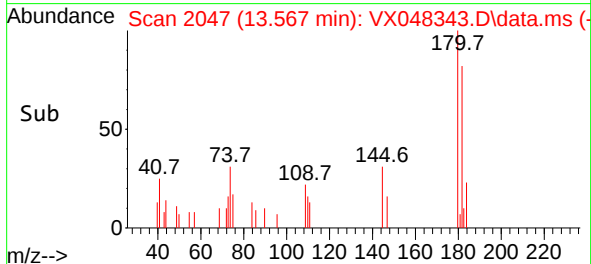
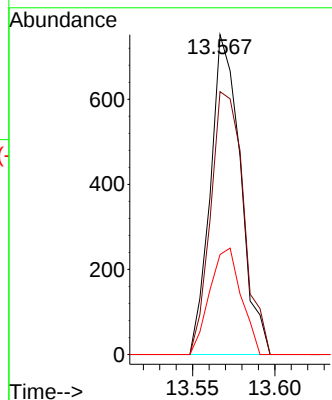
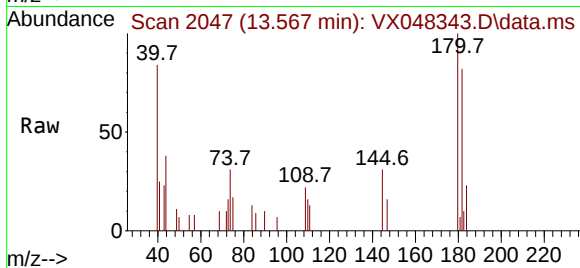
Tgt Ion:180 Resp: 953

Ion Ratio Lower Upper

180 100

182 90.5 47.3 142.0

145 34.8 16.3 48.9



#94

Hexachlorobutadiene

Concen: 0.634 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. 0.006 min

Lab File: VX048343.D

Acq: 24 Oct 2025 11:03

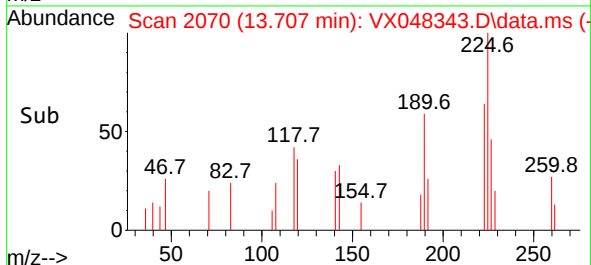
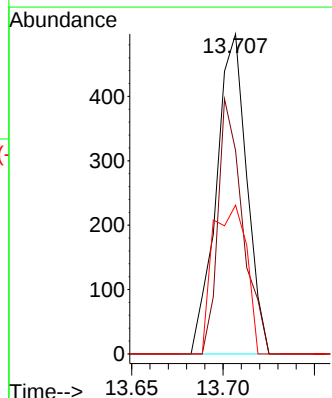
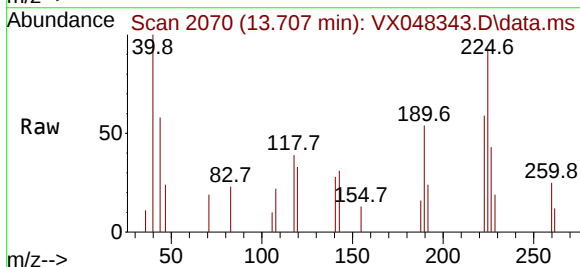
Tgt Ion:225 Resp: 576

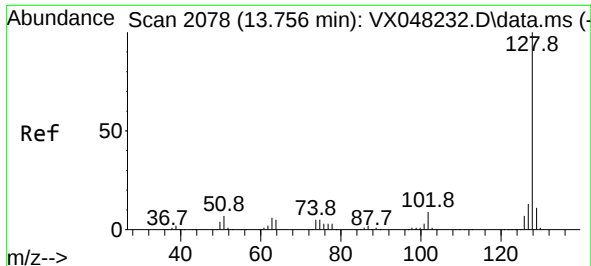
Ion Ratio Lower Upper

225 100

223 64.8 32.6 97.7

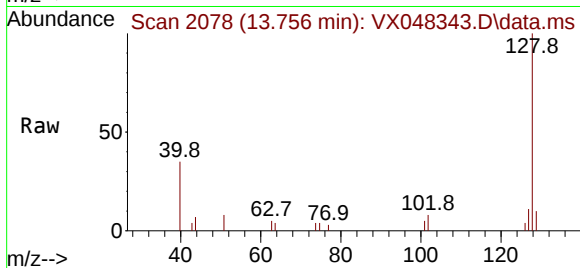
227 51.2 32.5 97.4



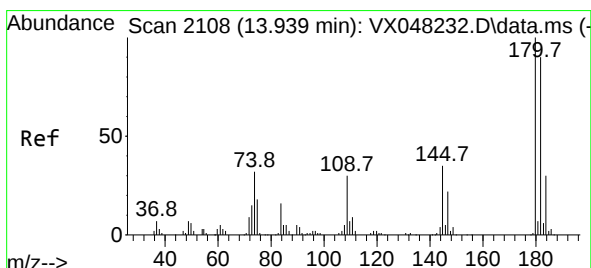
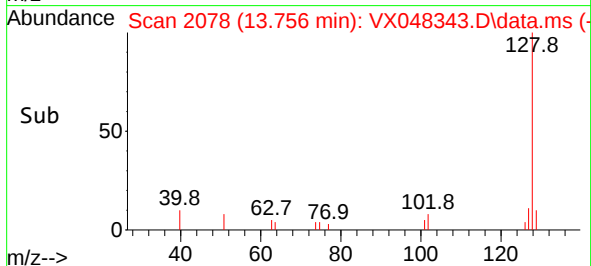
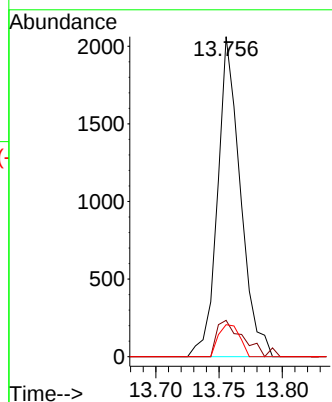


#95
Naphthalene
Concen: 0.359 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

Instrument :
MSVOA_X
ClientSampleId :
COMP-ROLLOFF



Tgt Ion:	128	Resp:	2575
Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.2	15.4
129	9.3	8.6	12.8



#96
1,2,3-Trichlorobenzene
Concen: 0.360 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX048343.D
Acq: 24 Oct 2025 11:03

Tgt Ion:	180	Resp:	895
Ion	Ratio	Lower	Upper
180	100		
182	101.3	46.6	139.7
145	38.1	16.9	50.7

