

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
 Data File : VN088111.D
 Acq On : 27 Oct 2025 14:13
 Operator : JC\MD
 Sample : Q3449-06
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CF-620-COMP-41

Quant Time: Oct 28 01:27:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 25 00:15:22 2025
 Response via : Initial Calibration

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

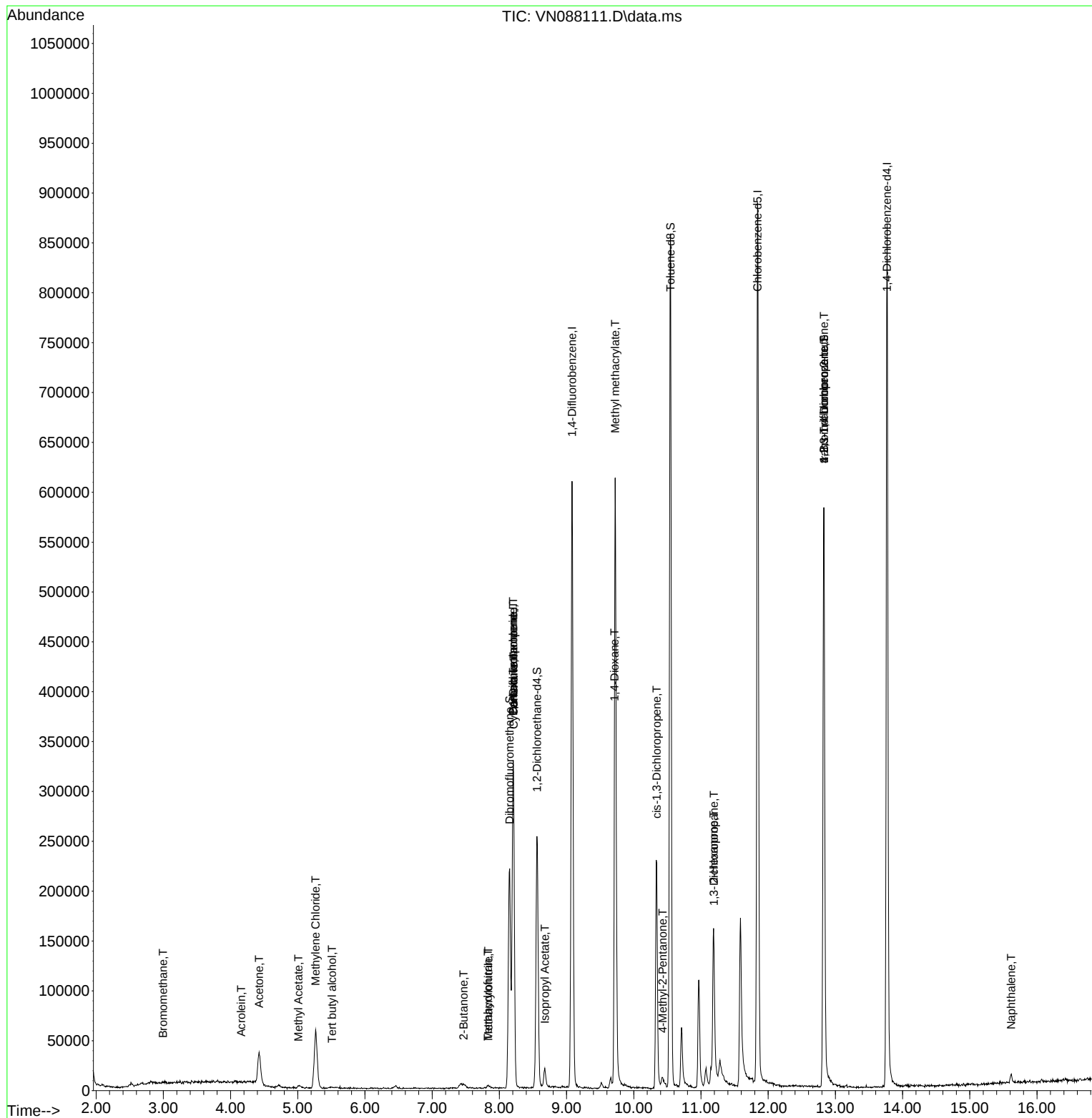
Internal Standards						
1) Pentafluorobenzene	8.206	168	219087	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	493422	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	481690	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	227894	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	212429	56.072	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	112.140%	
35) Dibromofluoromethane	8.153	113	155362	46.869	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	93.740%	
50) Toluene-d8	10.547	98	576893	45.166	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	90.340%	
62) 4-Bromofluorobenzene	12.829	95	219274	48.611	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	97.220%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.995	94	807	0.426	ug/l #	73
11) Tert butyl alcohol	5.512	59	1243	1.904	ug/l #	82
13) Acrolein	4.159	56	518	0.706	ug/l #	14
16) Acetone	4.424	43	60858	31.975	ug/l	96
18) Methyl Acetate	5.012	43	6030	1.548	ug/l #	89
20) Methylene Chloride	5.265	84	42501	14.898	ug/l	89
25) 2-Butanone	7.471	43	5346	2.131	ug/l	94
29) Tetrahydrofuran	7.830	42	2036	1.246	ug/l #	89
31) Cyclohexane	8.212	56	6832	1.288	ug/l #	30
36) 1,1-Dichloropropene	8.206	75	21576	4.458	ug/l #	51
38) Carbon Tetrachloride	8.206	117	26825	5.366	ug/l #	16
41) Methacrylonitrile	7.835	41	1452	0.442	ug/l #	45
43) Isopropyl Acetate	8.677	43	22140	2.307	ug/l	94
48) Methyl methacrylate	9.724	41	61743	13.934	ug/l #	47
49) 1,4-Dioxane	9.712	88	67	1.216	ug/l #	1
51) 4-Methyl-2-Pentanone	10.429	43	6029	1.062	ug/l #	83
54) cis-1,3-Dichloropropene	10.341	75	42044	7.006	ug/l #	62
57) 1,3-Dichloropropane	11.194	76	2204	0.364	ug/l #	42
59) 2-Hexanone	11.188	43	27826	7.388	ug/l #	57
76) 1,2,3-Trichloropropane	12.829	75	123672	23.736	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	123672	66.212	ug/l #	1
95) Naphthalene	15.617	128	7935	0.524	ug/l #	91

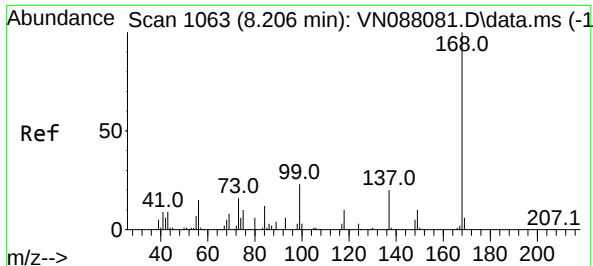
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102725\
Data File : VN088111.D
Acq On : 27 Oct 2025 14:13
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Sample : Q3449-06
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
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CF-620-COMP-41

Quant Time: Oct 28 01:27:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 25 00:15:22 2025
Response via : Initial Calibration

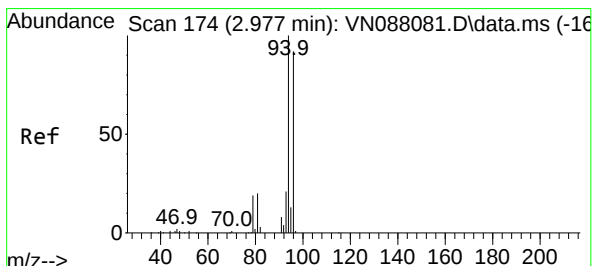
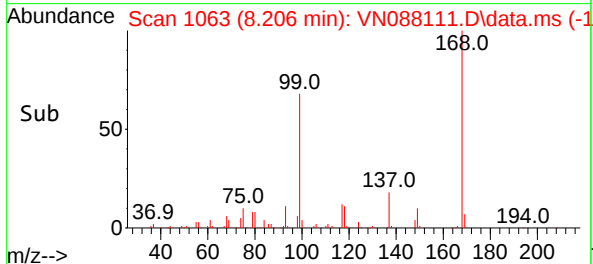
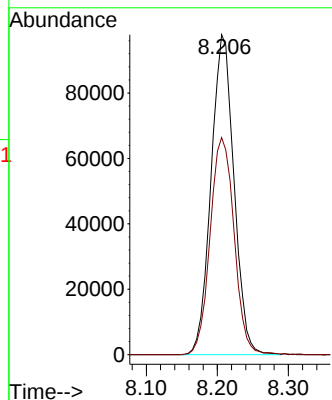
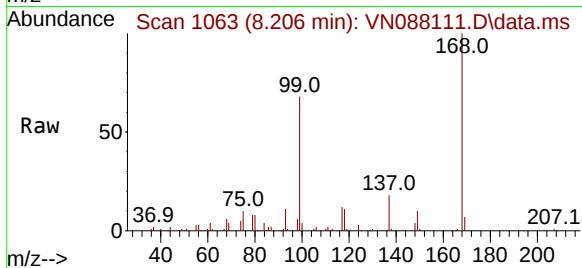




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

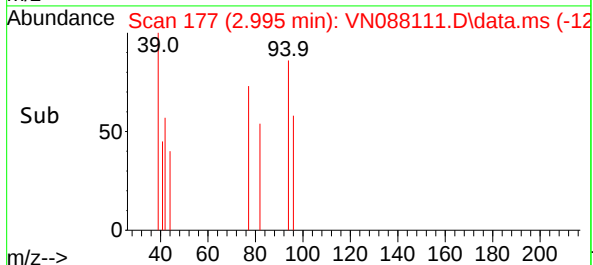
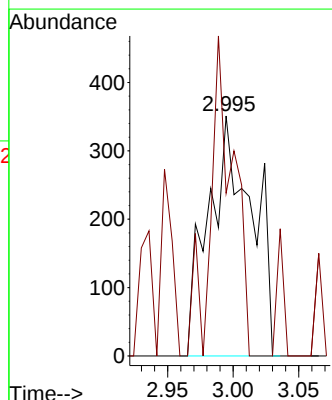
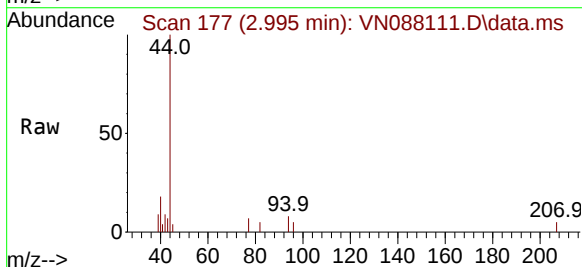
Instrument :
MSVOA_N
ClientSampleId :
CF-620-COMP-41

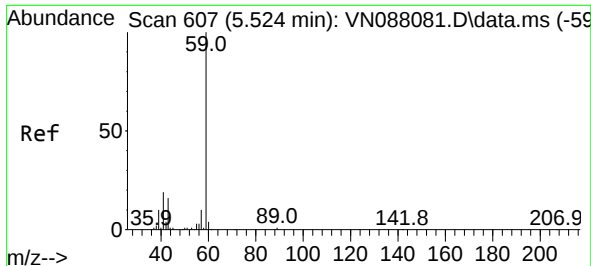
Tgt Ion:168 Resp: 219087
Ion Ratio Lower Upper
168 100
99 67.8 57.2 85.8



#5
Bromomethane
Concen: 0.426 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.023 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

Tgt Ion: 94 Resp: 807
Ion Ratio Lower Upper
94 100
96 67.8 75.4 113.2#

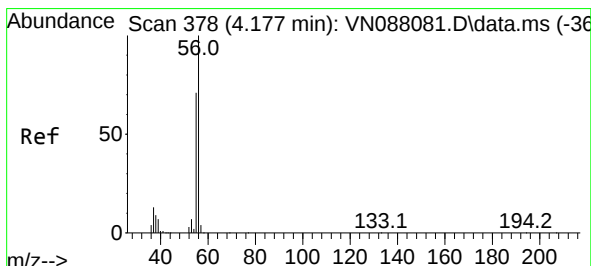
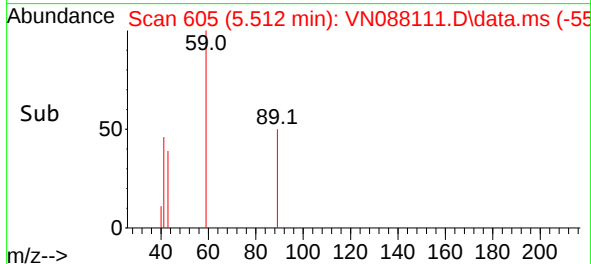
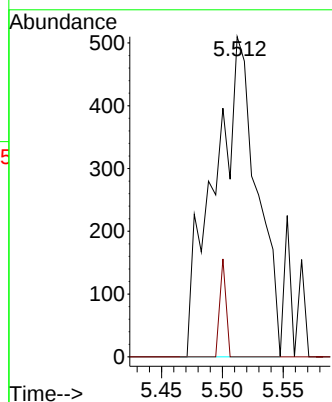
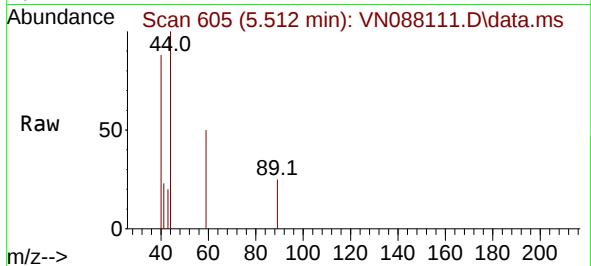




#11
Tert butyl alcohol
Concen: 1.904 ug/l
RT: 5.512 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

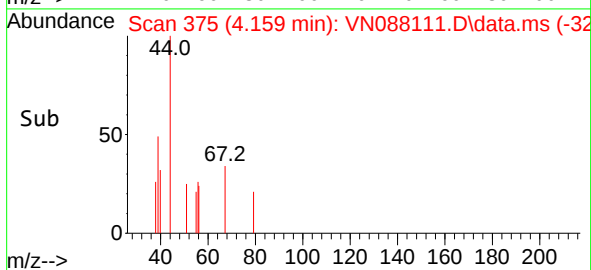
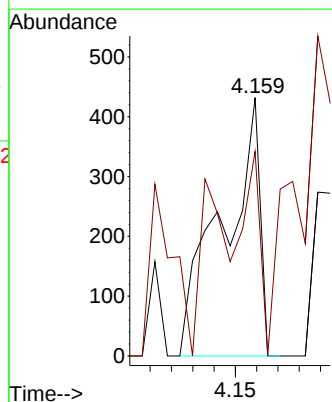
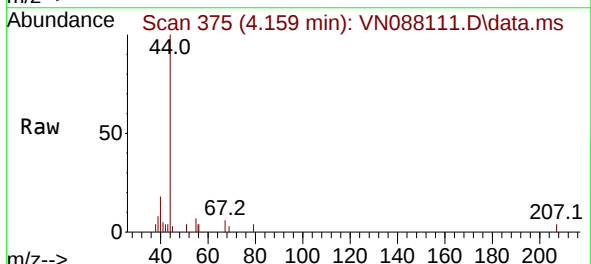
Instrument :
MSVOA_N
ClientSampleId :
CF-620-COMP-41

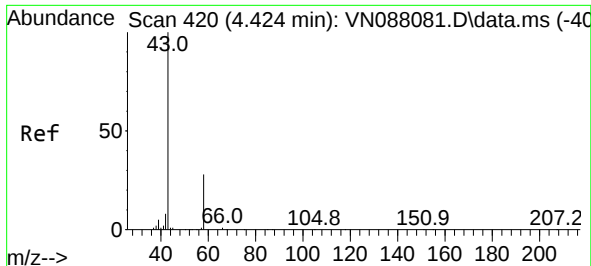
Tgt Ion: 59 Resp: 1243
Ion Ratio Lower Upper
59 100
57 4.4 9.0 13.4#



#13
Acrolein
Concen: 0.706 ug/l
RT: 4.159 min Scan# 375
Delta R.T. -0.012 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

Tgt Ion: 56 Resp: 518
Ion Ratio Lower Upper
56 100
55 0.0 57.3 85.9#

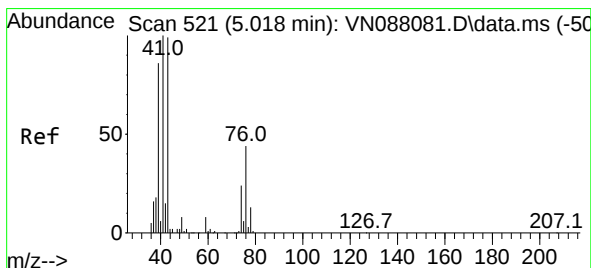
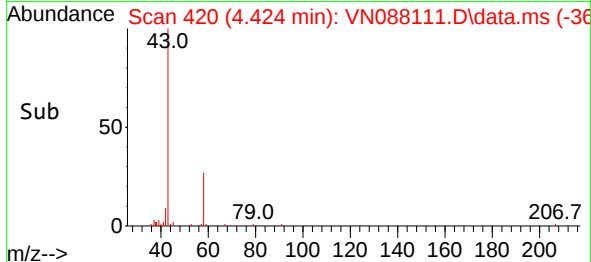
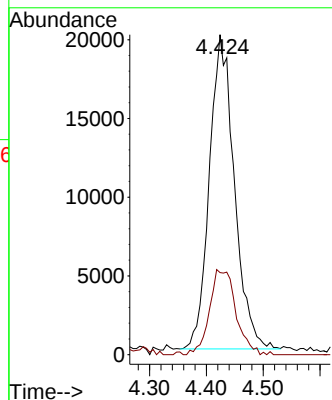
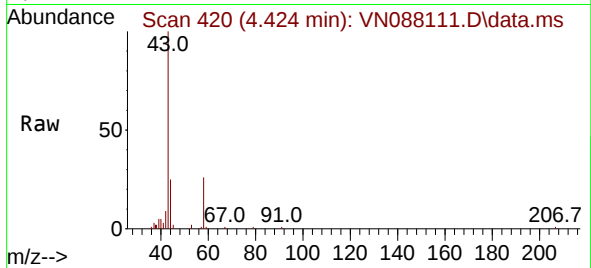




#16
Acetone
Concen: 31.975 ug/l
RT: 4.424 min Scan# 41
Delta R.T. -0.000 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

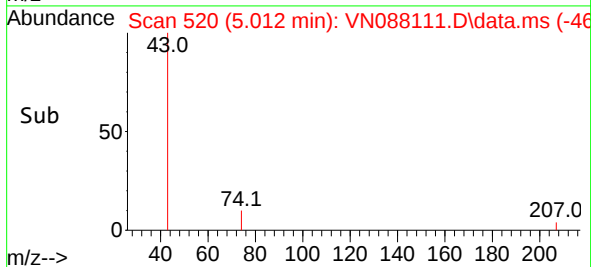
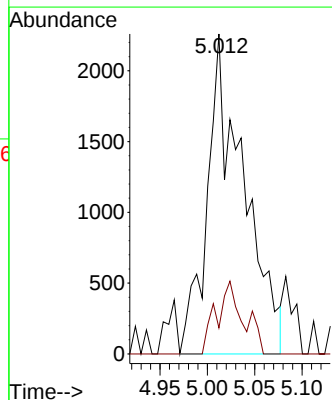
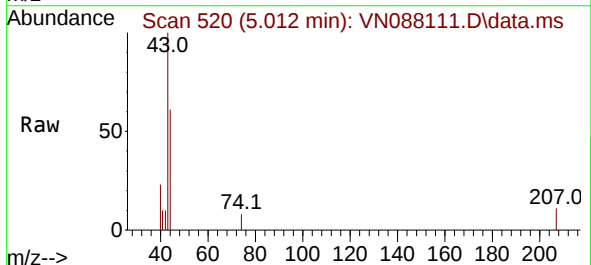
Instrument :
MSVOA_N
ClientSampleId :
CF-620-COMP-41

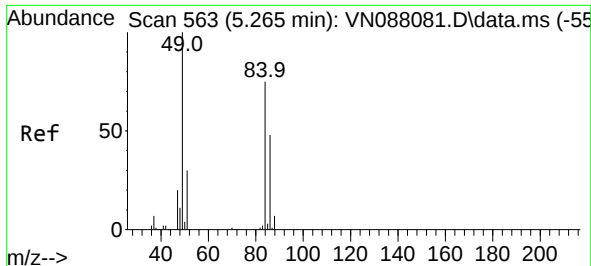
Tgt Ion: 43 Resp: 60858
Ion Ratio Lower Upper
43 100
58 26.1 22.6 33.8



#18
Methyl Acetate
Concen: 1.548 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.000 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

Tgt Ion: 43 Resp: 6030
Ion Ratio Lower Upper
43 100
74 16.8 17.6 26.4#

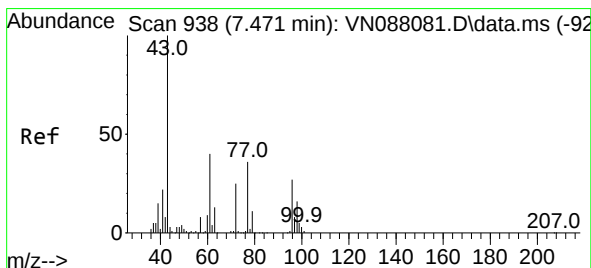
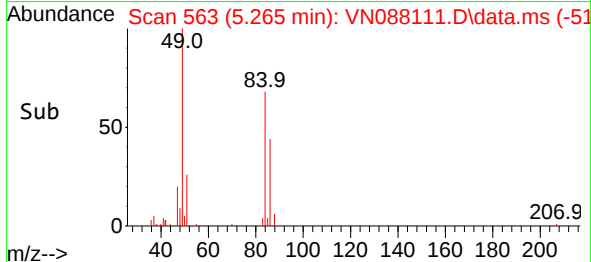
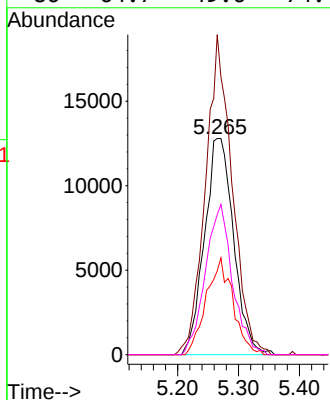
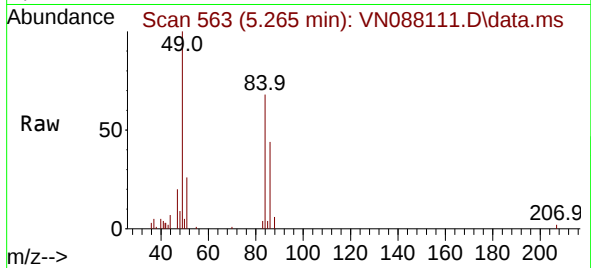




#20
Methylene Chloride
Concen: 14.898 ug/l
RT: 5.265 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

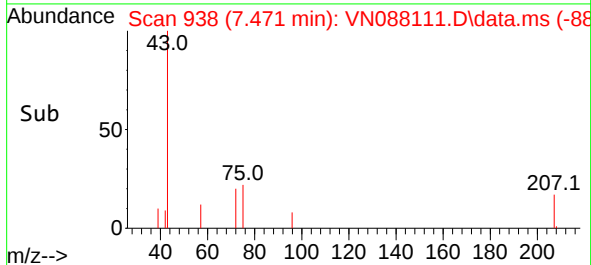
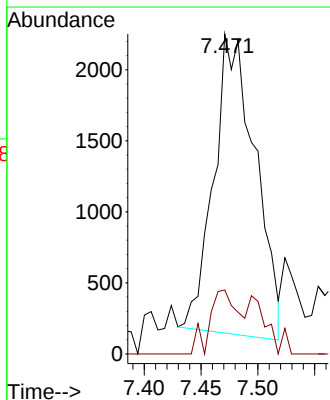
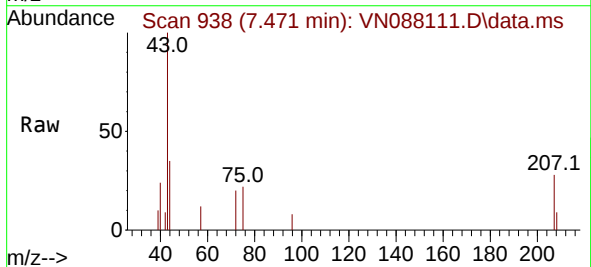
Instrument :
MSVOA_N
ClientSampleId :
CF-620-COMP-41

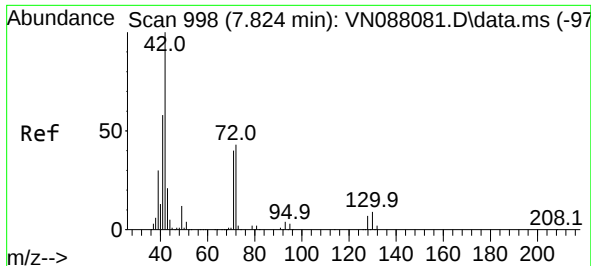
Tgt Ion:	84	Resp:	42501
Ion	Ratio	Lower	Upper
84	100		
49	148.0	103.4	155.2
51	38.8	33.8	50.8
86	64.7	49.6	74.4



#25
2-Butanone
Concen: 2.131 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

Tgt Ion:	43	Resp:	5346
Ion	Ratio	Lower	Upper
43	100		
72	21.8	19.9	29.9





#29

Tetrahydrofuran

Concen: 1.246 ug/l

RT: 7.830 min Scan# 998

Delta R.T. 0.006 min

Lab File: VN088111.D

Acq: 27 Oct 2025 14:13

Instrument :

MSVOA_N

ClientSampleId :

CF-620-COMP-41

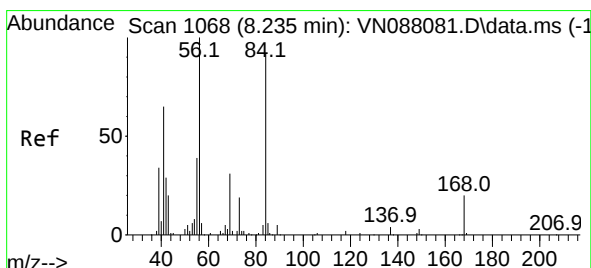
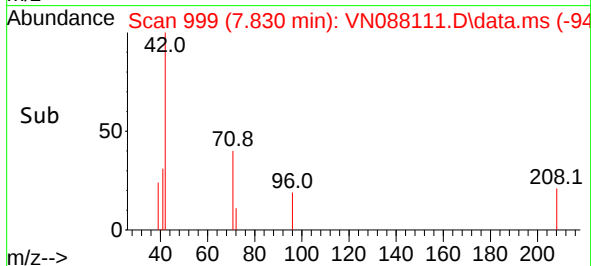
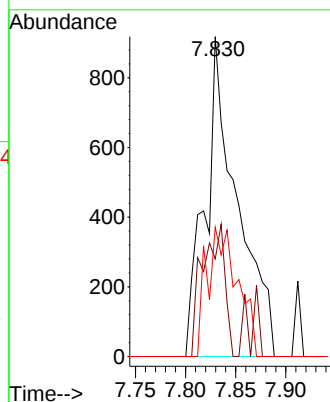
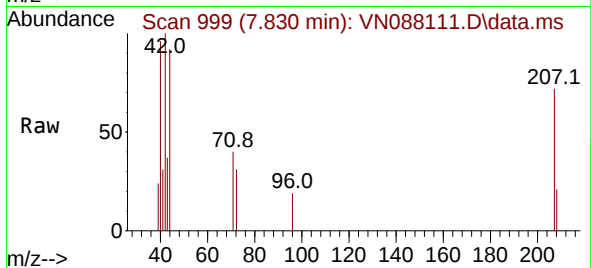
Tgt Ion: 42 Resp: 2036

Ion Ratio Lower Upper

42 100

72 28.9 33.7 50.5#

71 38.9 31.9 47.9



#31

Cyclohexane

Concen: 1.288 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.024 min

Lab File: VN088111.D

Acq: 27 Oct 2025 14:13

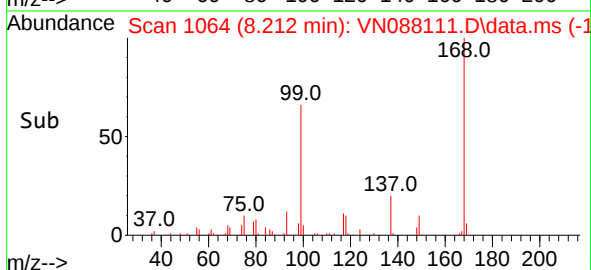
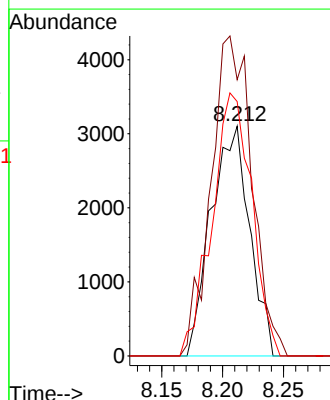
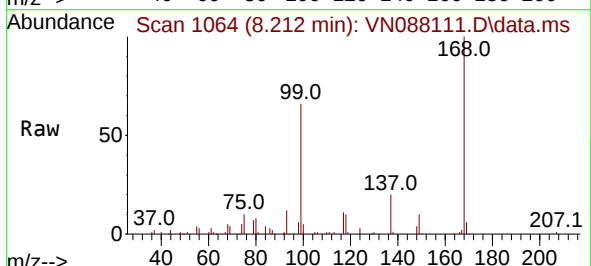
Tgt Ion: 56 Resp: 6832

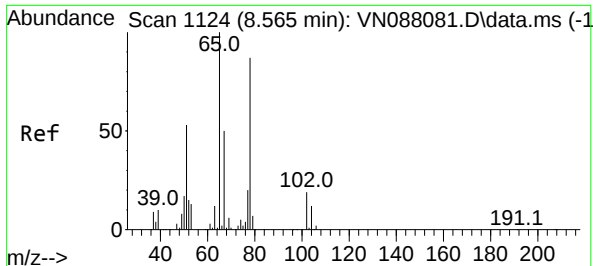
Ion Ratio Lower Upper

56 100

69 120.3 23.7 35.5#

84 110.7 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 56.072 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088111.D

Acq: 27 Oct 2025 14:13

Instrument :

MSVOA_N

ClientSampleId :

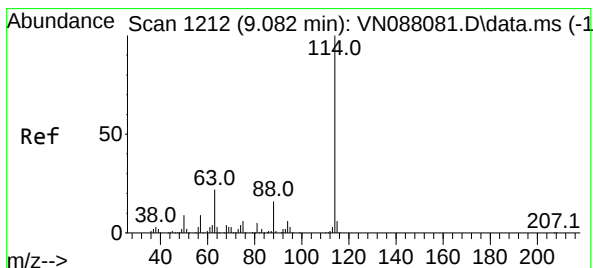
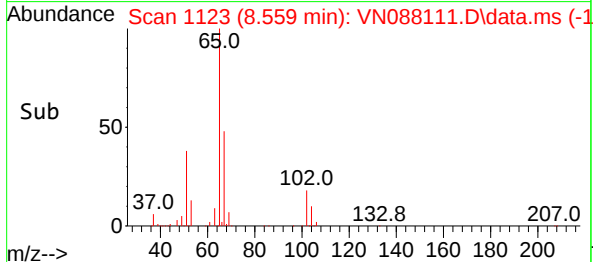
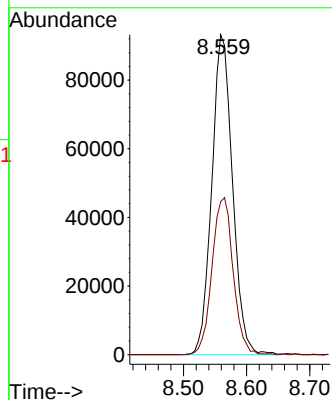
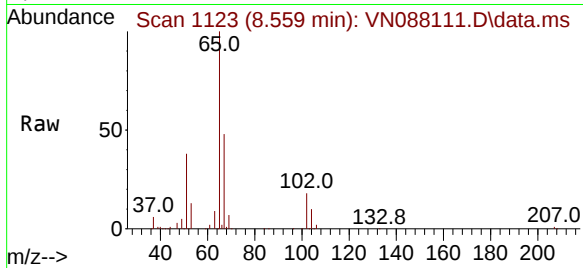
CF-620-COMP-41

Tgt Ion: 65 Resp: 212429

Ion Ratio Lower Upper

65 100

67 50.1 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.082 min Scan# 1212

Delta R.T. -0.000 min

Lab File: VN088111.D

Acq: 27 Oct 2025 14:13

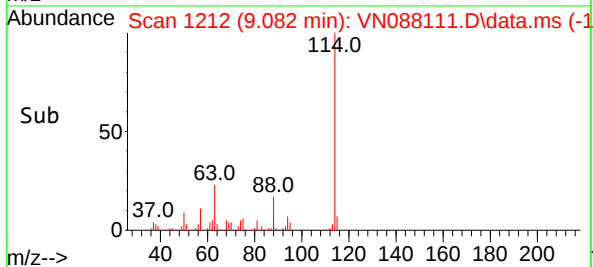
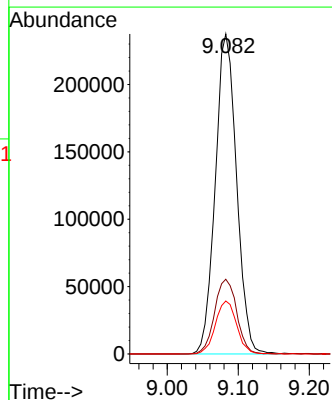
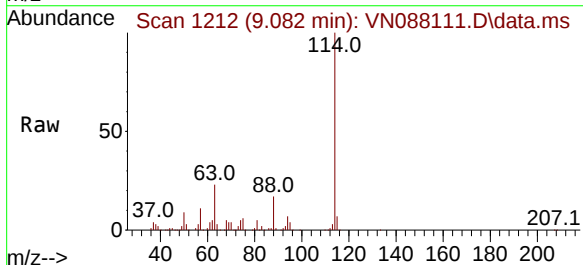
Tgt Ion: 114 Resp: 493422

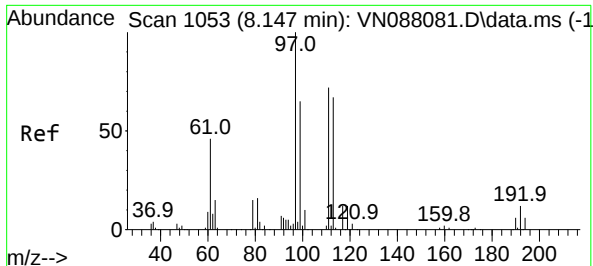
Ion Ratio Lower Upper

114 100

63 23.3 0.0 45.2

88 16.6 0.0 33.4

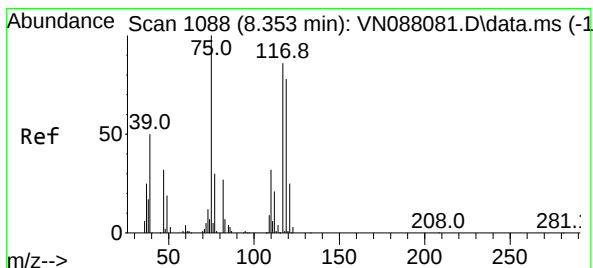
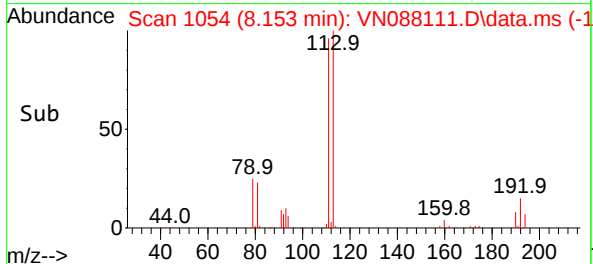
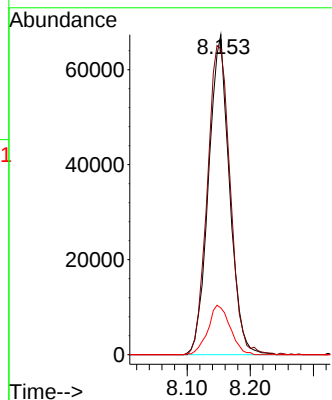
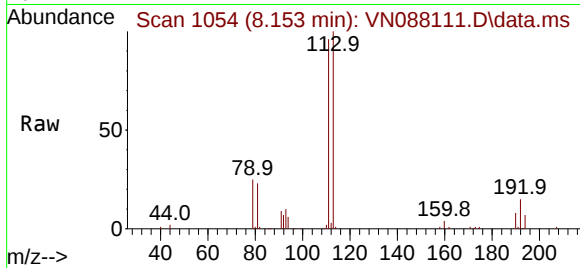




#35
Dibromofluoromethane
Concen: 46.869 ug/l
RT: 8.153 min Scan# 1054
Delta R.T. -0.000 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

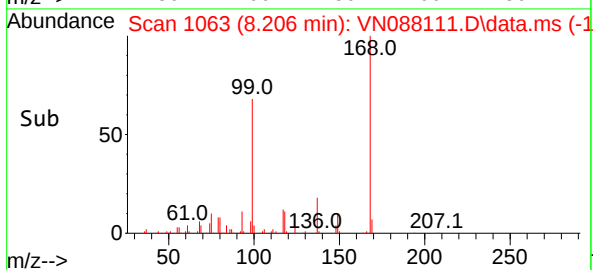
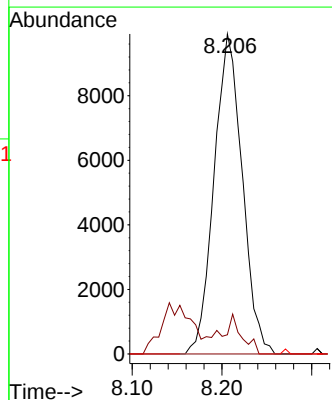
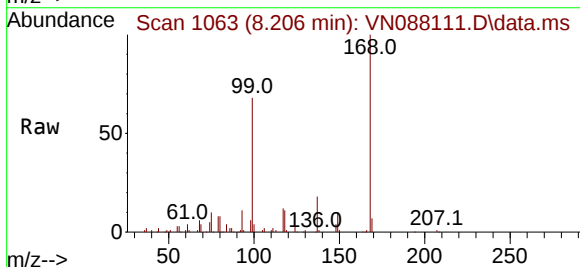
Instrument :
MSVOA_N
ClientSampleId :
CF-620-COMP-41

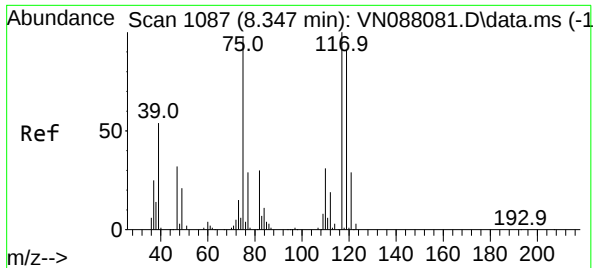
Tgt Ion:113 Resp: 155362
Ion Ratio Lower Upper
113 100
111 105.2 82.8 124.2
192 16.3 12.8 19.2



#36
1,1-Dichloropropene
Concen: 4.458 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.147 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

Tgt Ion: 75 Resp: 21576
Ion Ratio Lower Upper
75 100
110 8.2 15.9 47.6#
77 0.0 24.4 36.6#

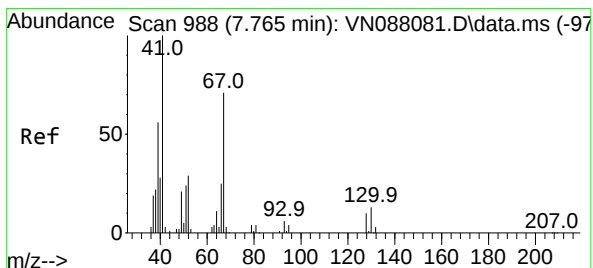
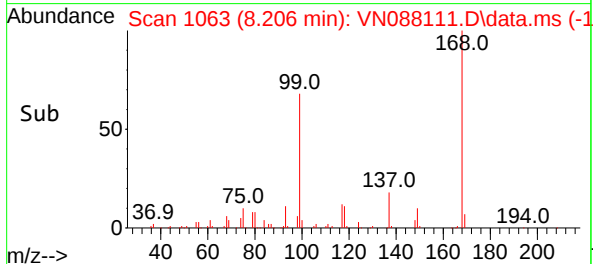
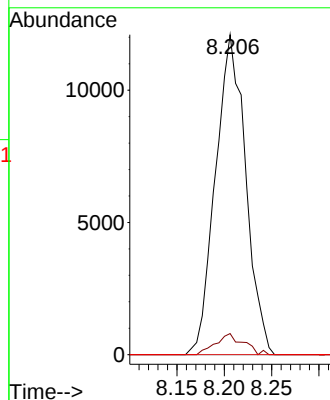
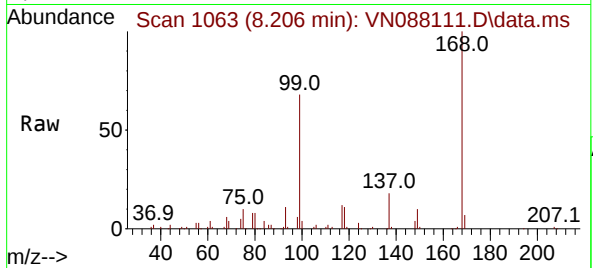




#38
Carbon Tetrachloride
Concen: 5.366 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.135 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

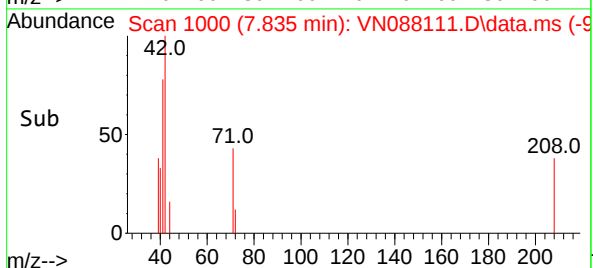
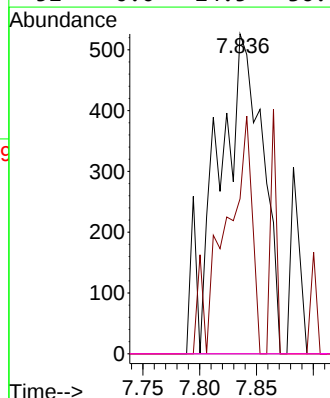
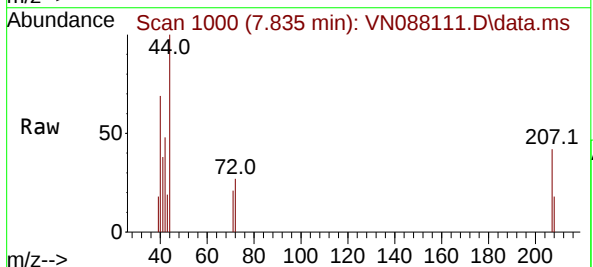
Instrument :
MSVOA_N
ClientSampleId :
CF-620-COMP-41

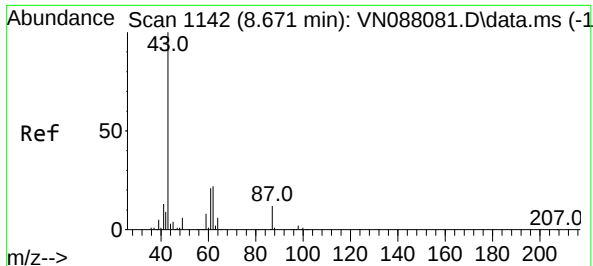
Tgt Ion:117 Resp: 26825
Ion Ratio Lower Upper
117 100
119 6.6 79.0 118.6#
121 0.0 25.0 37.6#



#41
Methacrylonitrile
Concen: 0.442 ug/l
RT: 7.835 min Scan# 1000
Delta R.T. 0.076 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

Tgt Ion: 41 Resp: 1452
Ion Ratio Lower Upper
41 100
39 44.2 45.4 68.0#
67 0.0 55.3 82.9#
52 0.0 24.5 36.7#

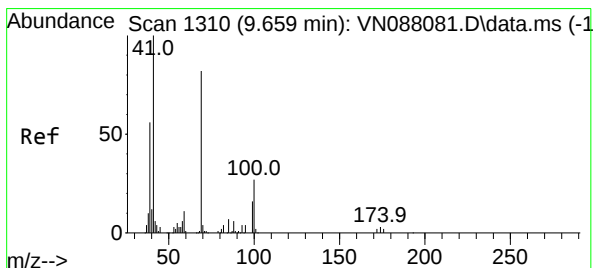
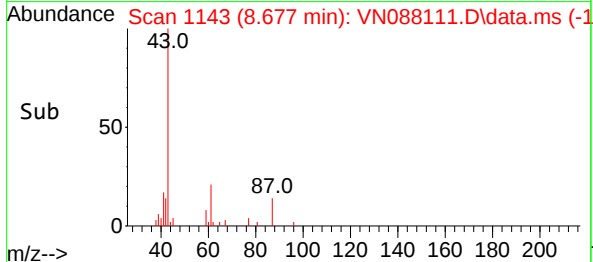
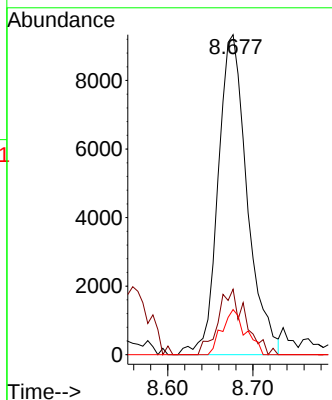
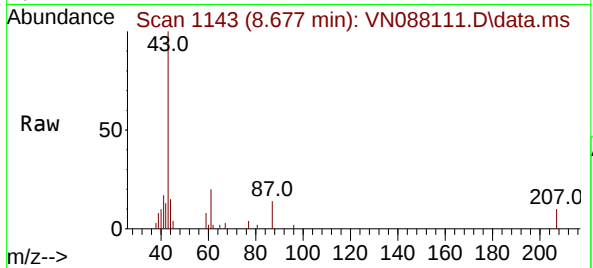




#43
Isopropyl Acetate
Concen: 2.307 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

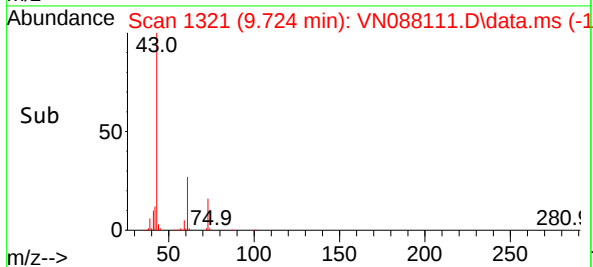
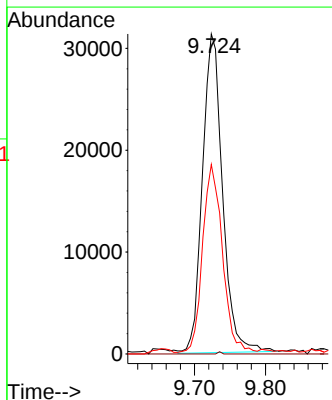
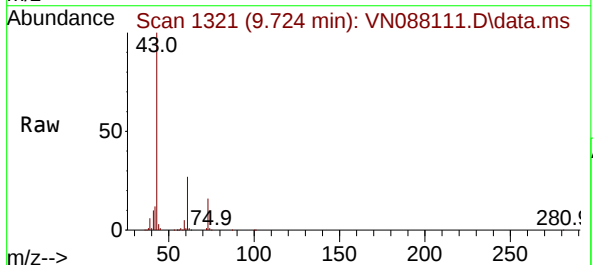
Instrument :
MSVOA_N
ClientSampleId :
CF-620-COMP-41

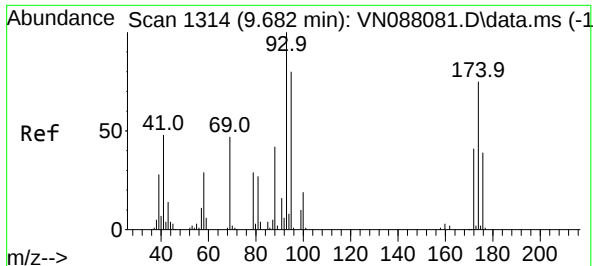
Tgt Ion:	43	Resp:	22140
Ion	Ratio	Lower	Upper
43	100		
61	19.5	18.8	28.2
87	11.5	9.6	14.4



#48
Methyl methacrylate
Concen: 13.934 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.059 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

Tgt Ion:	41	Resp:	61743
Ion	Ratio	Lower	Upper
41	100		
69	0.1	62.7	94.1#
39	57.9	52.9	79.3





#49

1,4-Dioxane

Concen: 1.216 ug/l

RT: 9.712 min Scan# 11

Delta R.T. 0.029 min

Lab File: VN088111.D

Acq: 27 Oct 2025 14:13

Instrument :

MSVOA_N

ClientSampleId :

CF-620-COMP-41

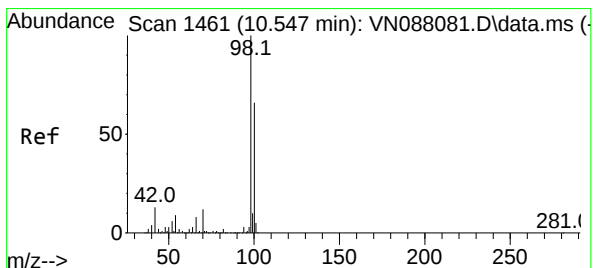
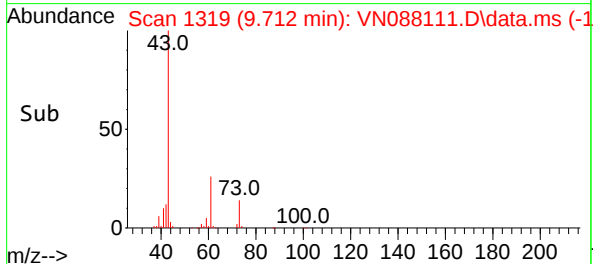
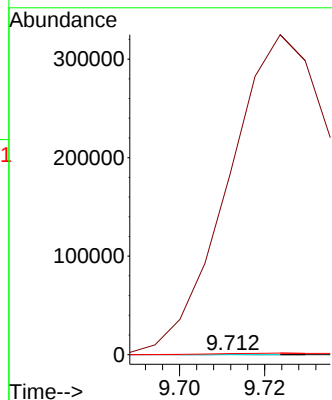
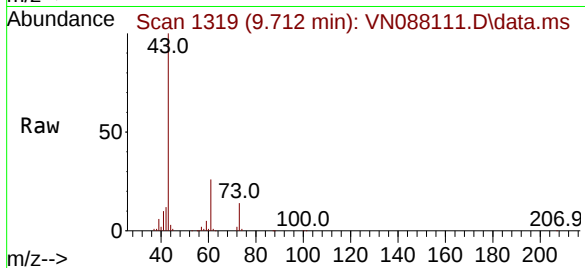
Tgt Ion: 88 Resp: 67

Ion Ratio Lower Upper

88 100

43 940888.1 0.0 0.0#

58 5180.6 57.9 86.9#



#50

Toluene-d8

Concen: 45.166 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.000 min

Lab File: VN088111.D

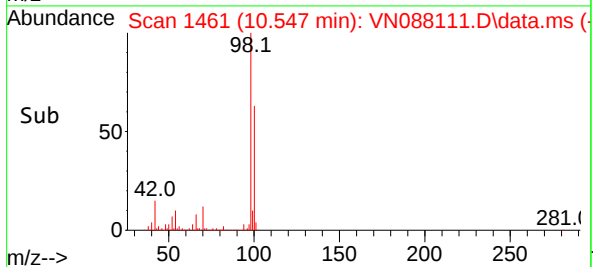
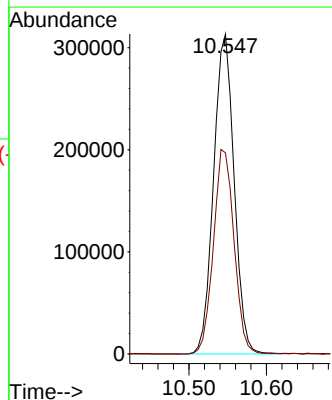
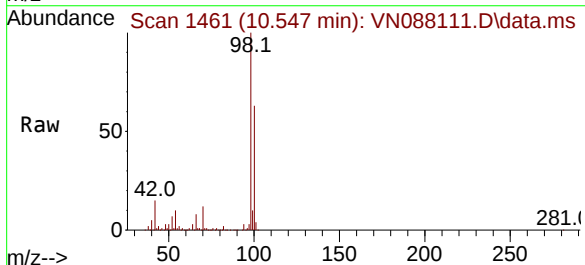
Acq: 27 Oct 2025 14:13

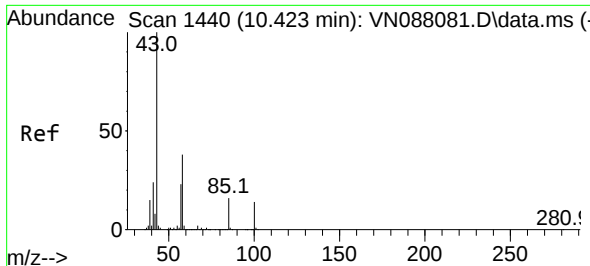
Tgt Ion: 98 Resp: 576893

Ion Ratio Lower Upper

98 100

100 64.3 52.8 79.2

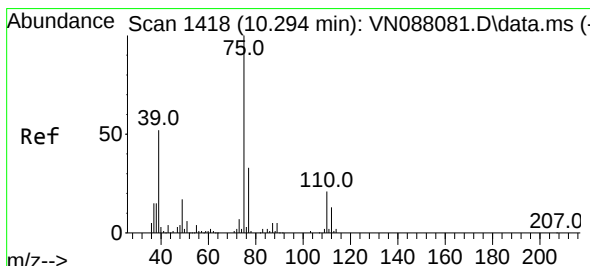
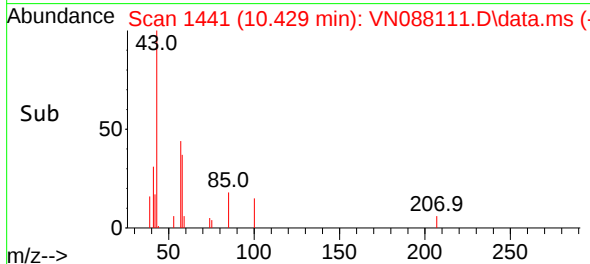
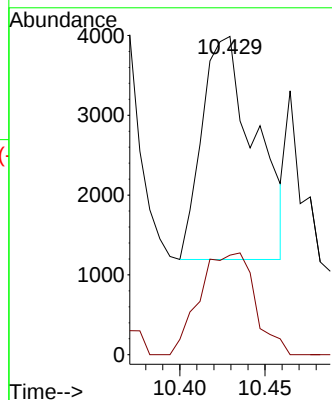
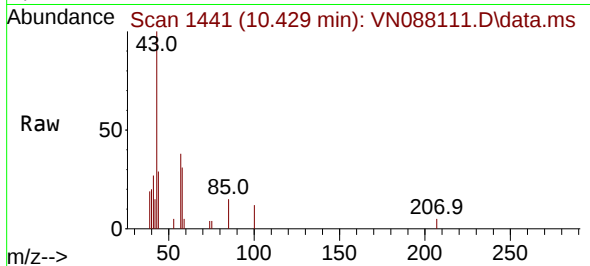




#51
4-Methyl-2-Pentanone
Concen: 1.062 ug/l
RT: 10.429 min Scan# 1440
Delta R.T. 0.006 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

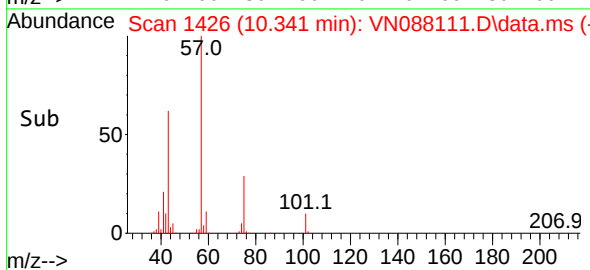
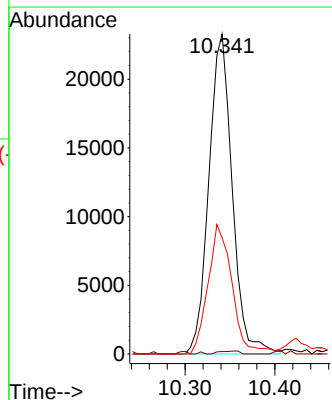
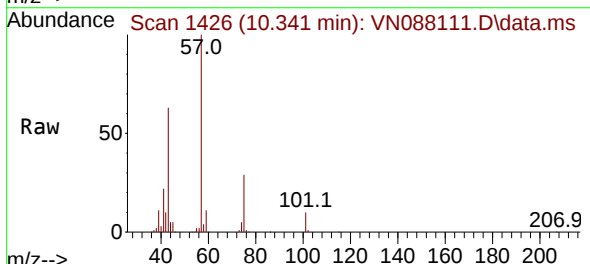
Instrument :
MSVOA_N
ClientSampleId :
CF-620-COMP-41

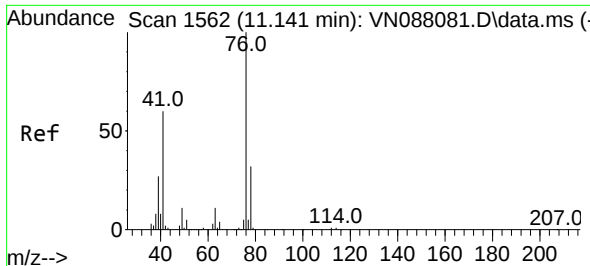
Tgt Ion: 43 Resp: 6029
Ion Ratio Lower Upper
43 100
58 47.4 29.6 44.4#



#54
cis-1,3-Dichloropropene
Concen: 7.006 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.053 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

Tgt Ion: 75 Resp: 42044
Ion Ratio Lower Upper
75 100
77 0.1 24.6 37.0#
39 36.3 45.2 67.8#





#57

1,3-Dichloropropane

Concen: 0.364 ug/l

RT: 11.194 min Scan# 11

Delta R.T. 0.053 min

Lab File: VN088111.D

Acq: 27 Oct 2025 14:13

Instrument :

MSVOA_N

ClientSampleId :

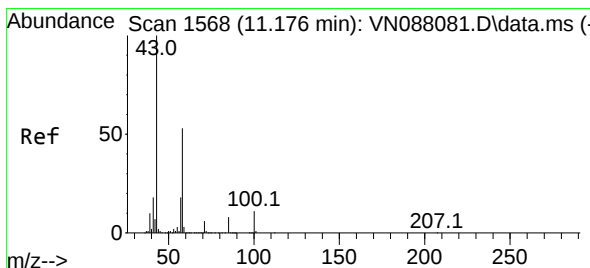
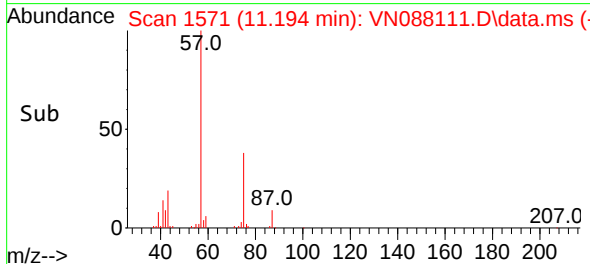
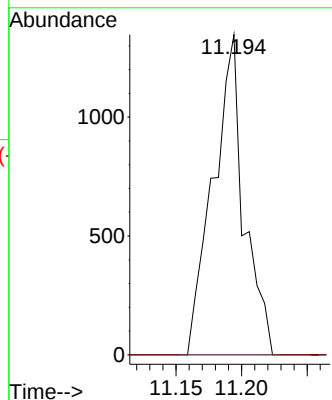
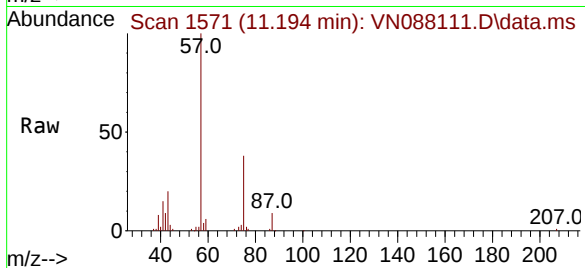
CF-620-COMP-41

Tgt Ion: 76 Resp: 2204

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 7.388 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.012 min

Lab File: VN088111.D

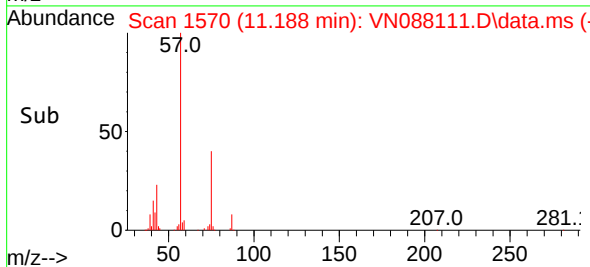
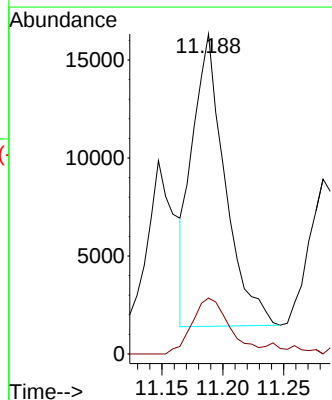
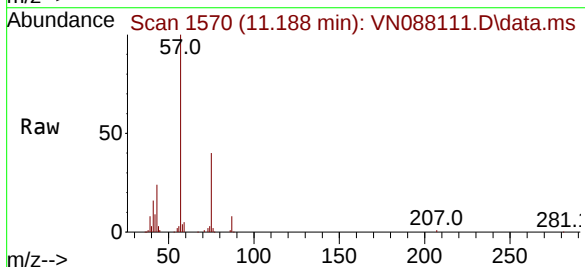
Acq: 27 Oct 2025 14:13

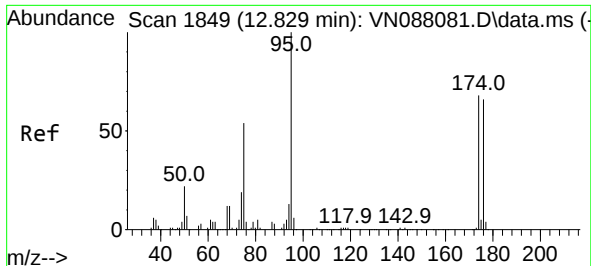
Tgt Ion: 43 Resp: 27826

Ion Ratio Lower Upper

43 100

58 21.7 25.9 77.8#

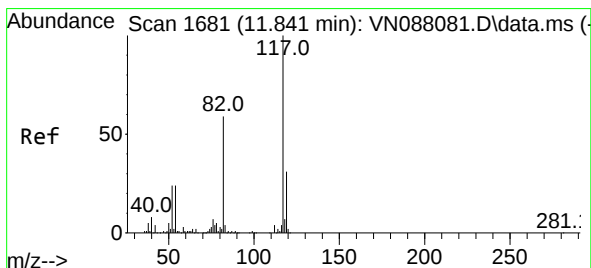
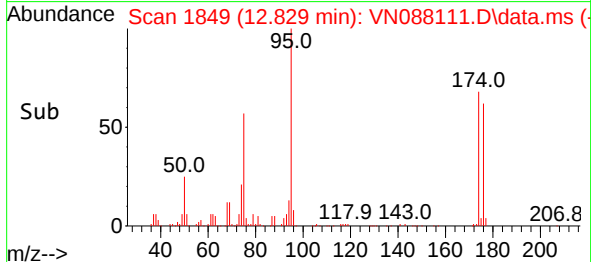
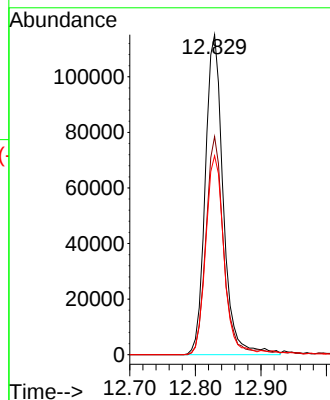
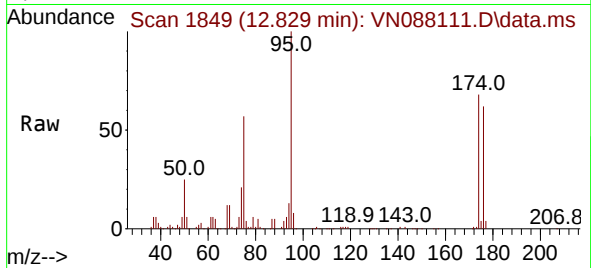




#62
4-Bromofluorobenzene
Concen: 48.611 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

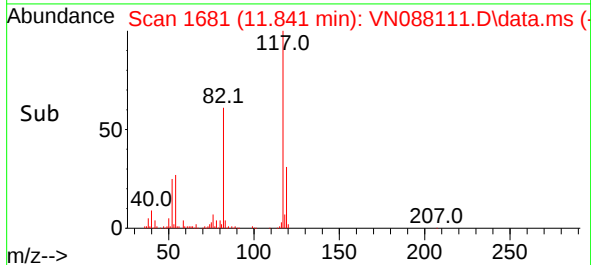
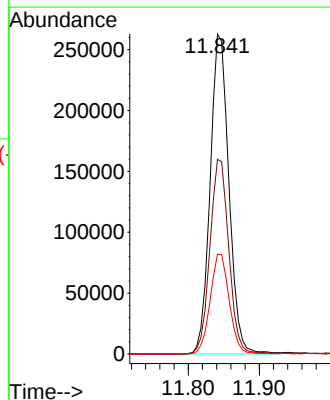
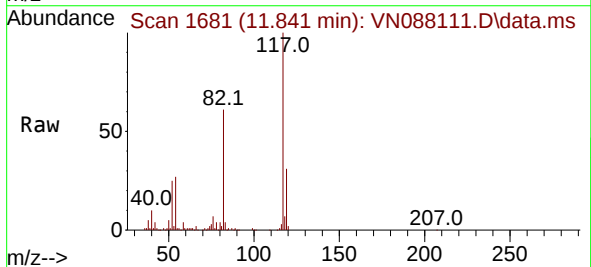
Instrument :
MSVOA_N
ClientSampleId :
CF-620-COMP-41

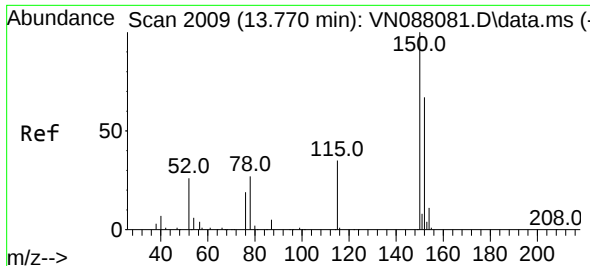
Tgt Ion: 95 Resp: 219274
Ion Ratio Lower Upper
95 100
174 66.1 0.0 138.4
176 62.8 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

Tgt Ion: 117 Resp: 481690
Ion Ratio Lower Upper
117 100
82 60.8 47.4 71.2
119 31.1 24.3 36.5

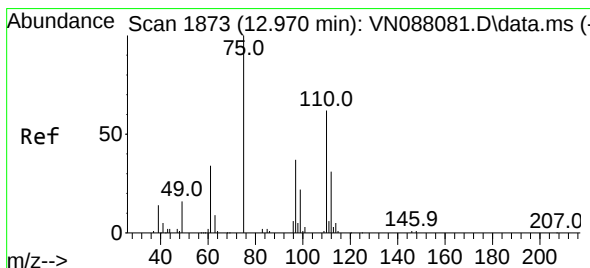
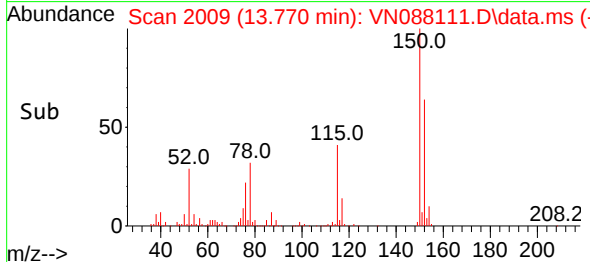
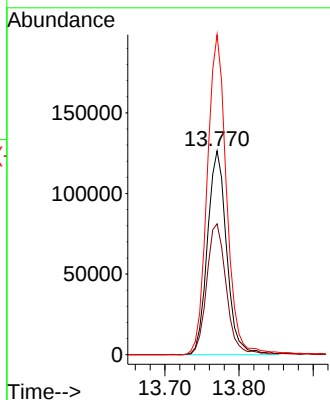
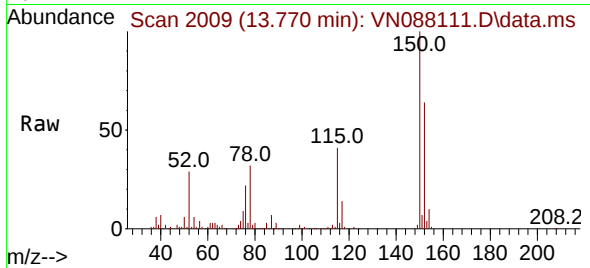




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.006 min
 Lab File: VN088111.D
 Acq: 27 Oct 2025 14:13

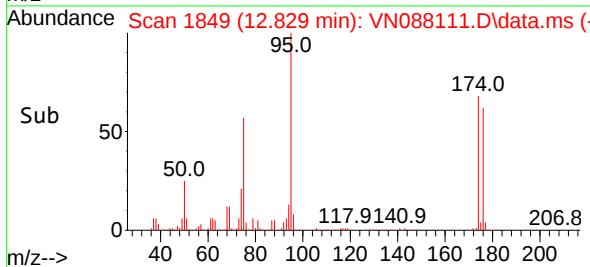
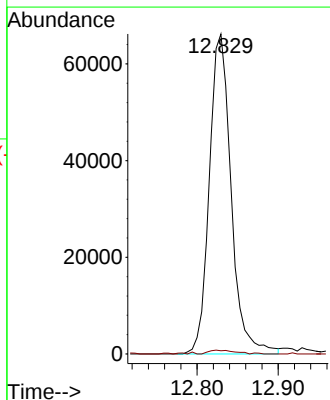
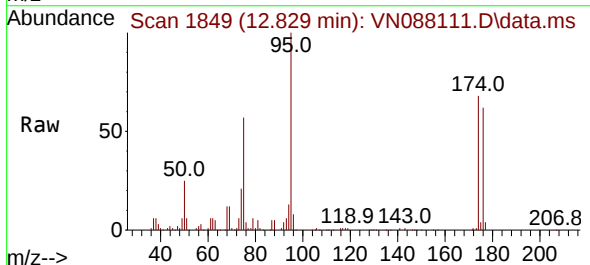
Instrument :
 MSVOA_N
 ClientSampleId :
 CF-620-COMP-41

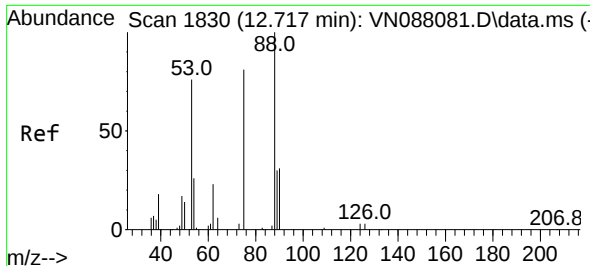
Tgt Ion:152 Resp: 227894
 Ion Ratio Lower Upper
 152 100
 115 65.4 32.3 96.8
 150 158.7 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 23.736 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. -0.141 min
 Lab File: VN088111.D
 Acq: 27 Oct 2025 14:13

Tgt Ion: 75 Resp: 123672
 Ion Ratio Lower Upper
 75 100
 77 1.5 89.1 267.4#

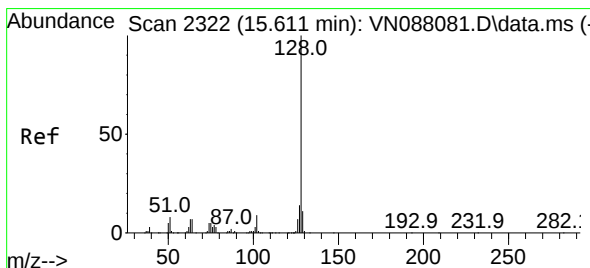
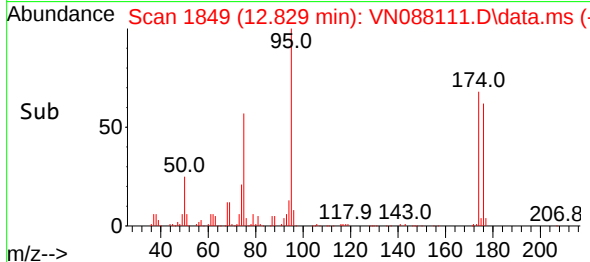
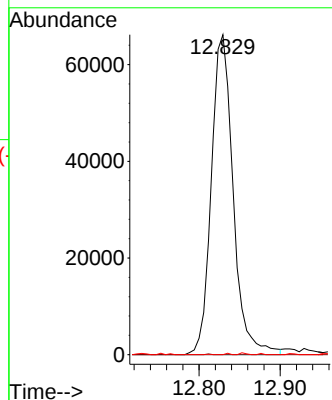
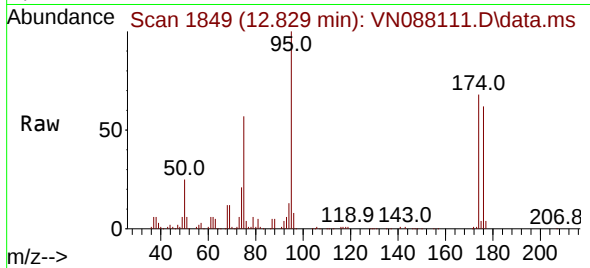




#81
trans-1,4-Dichloro-2-butene
Concen: 66.212 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

Instrument :
MSVOA_N
ClientSampleId :
CF-620-COMP-41

Tgt Ion: 75 Resp: 123672
Ion Ratio Lower Upper
75 100
53 0.0 101.8 152.6#
89 0.1 35.6 53.4#



#95
Naphthalene
Concen: 0.524 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.006 min
Lab File: VN088111.D
Acq: 27 Oct 2025 14:13

Tgt Ion:128 Resp: 7935
Ion Ratio Lower Upper
128 100
127 10.4 10.6 15.8#
129 6.1 8.6 12.8#

