

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092425\
 Data File : VN087943.D
 Acq On : 24 Sep 2025 12:50
 Operator : JC\MD
 Sample : Q3159-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-255

Quant Time: Sep 25 03:10:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 05:05:30 2025
 Response via : Initial Calibration

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

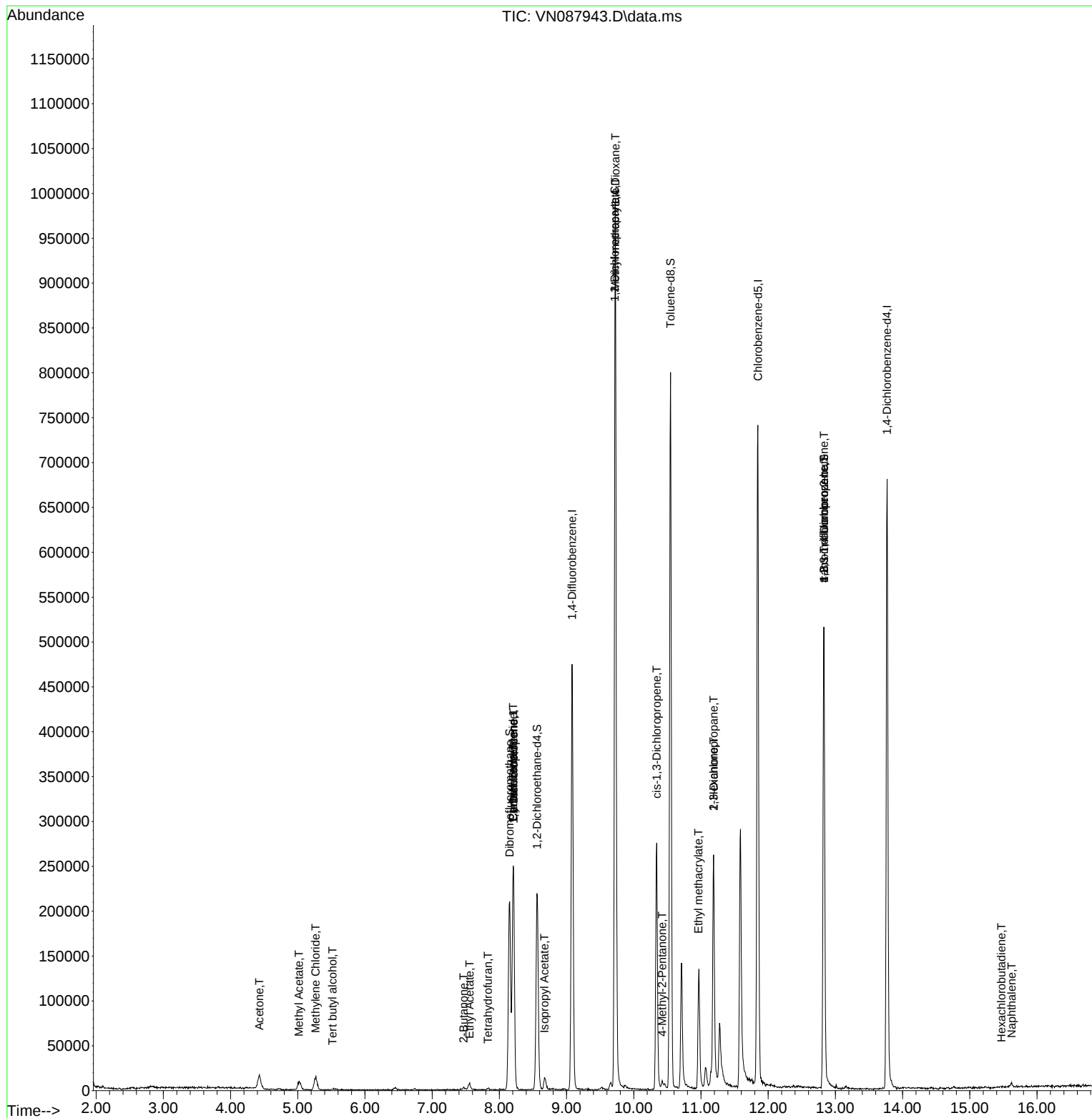
Internal Standards						
1) Pentafluorobenzene	8.206	168	176944	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	393254	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	413469	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	189919	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	182600	61.320	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 122.640%			
35) Dibromofluoromethane	8.153	113	150129	52.580	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.160%			
50) Toluene-d8	10.547	98	527691	52.555	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.100%			
62) 4-Bromofluorobenzene	12.829	95	178548	49.748	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.500%			
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.518	59	525	1.224	ug/l #	71
16) Acetone	4.430	43	29181	23.817	ug/l	99
18) Methyl Acetate	5.018	43	20113	6.559	ug/l	97
20) Methylene Chloride	5.265	84	10423	4.203	ug/l	97
25) 2-Butanone	7.471	43	2514	1.342	ug/l	95
29) Tetrahydrofuran	7.830	42	839	0.700	ug/l #	75
31) Cyclohexane	8.206	56	4803	1.438	ug/l #	20
36) 1,1-Dichloropropene	8.212	75	15569	4.535	ug/l #	53
37) Ethyl Acetate	7.559	43	11687	2.592	ug/l #	72
38) Carbon Tetrachloride	8.206	117	19822	5.031	ug/l #	19
43) Isopropyl Acetate	8.671	43	14829	2.090	ug/l #	90
45) 1,2-Dichloropropane	9.718	63	1385	0.486	ug/l #	43
48) Methyl methacrylate	9.724	41	94104	28.635	ug/l #	42
49) 1,4-Dioxane	9.730	88	121	2.492	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	6347	1.433	ug/l #	87
54) cis-1,3-Dichloropropene	10.341	75	47618	10.154	ug/l #	70
56) Ethyl methacrylate	10.965	69	2012	0.480	ug/l #	1
57) 1,3-Dichloropropane	11.188	76	2982	0.625	ug/l #	42
59) 2-Hexanone	11.188	43	50273	17.169	ug/l #	51
76) 1,2,3-Trichloropropane	12.829	75	101322	27.065	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	101322	75.154	ug/l #	9
94) Hexachlorobutadiene	15.470	225	347	0.271	ug/l #	18
95) Naphthalene	15.623	128	4944	0.443	ug/l #	84

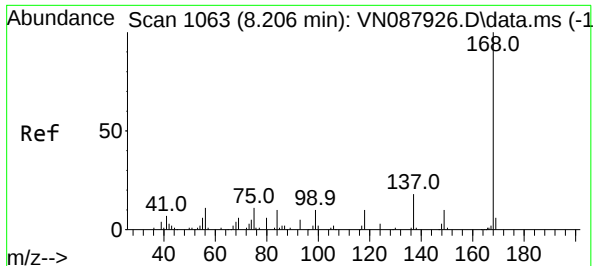
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092325W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 24 05:05:30 2025
Response via : Initial Calibration

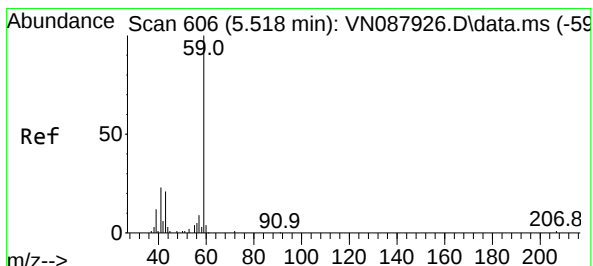
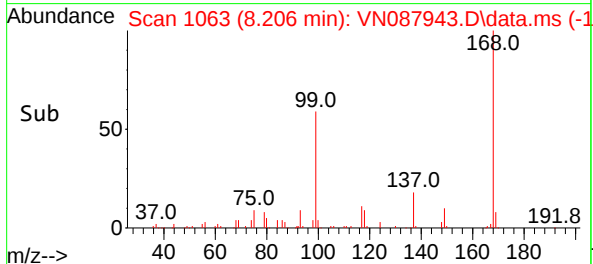
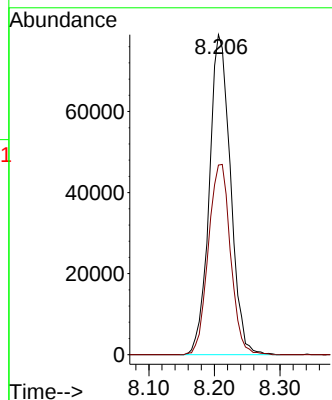
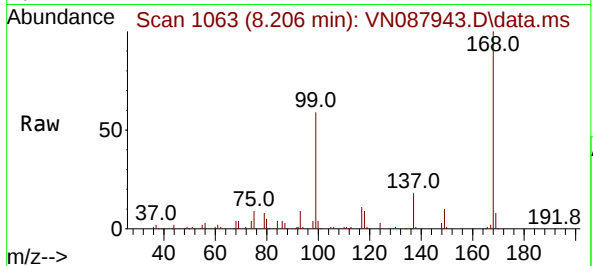




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

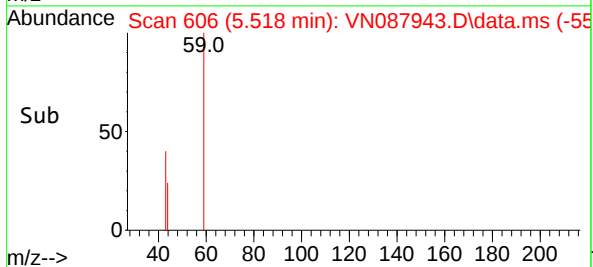
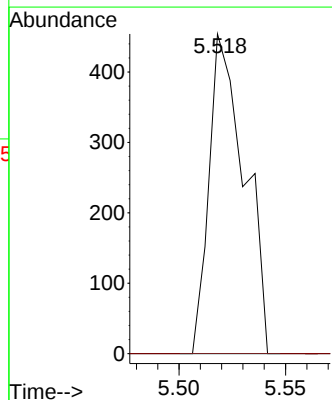
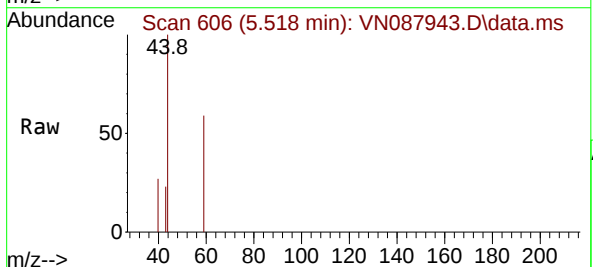
Instrument :
MSVOA_N
ClientSampleId :
VNJ-255

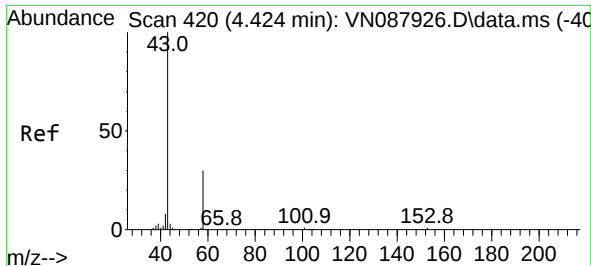
Tgt Ion:168 Resp: 176944
Ion Ratio Lower Upper
168 100
99 59.3 52.2 78.2



#11
Tert butyl alcohol
Concen: 1.224 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

Tgt Ion: 59 Resp: 525
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#

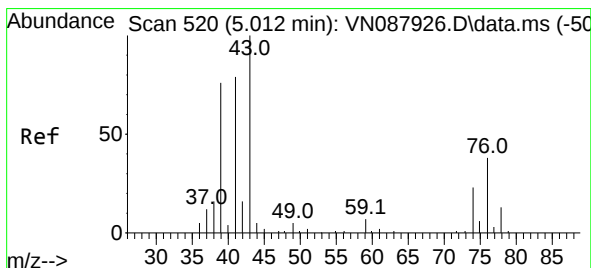
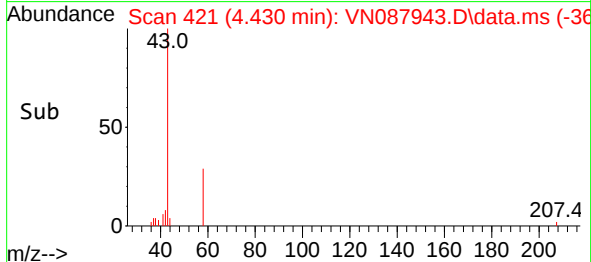
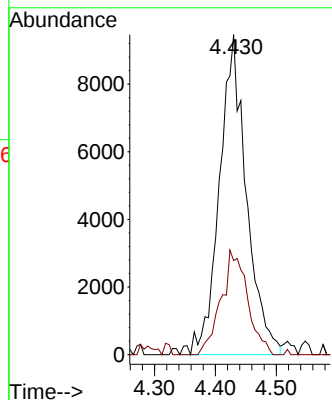
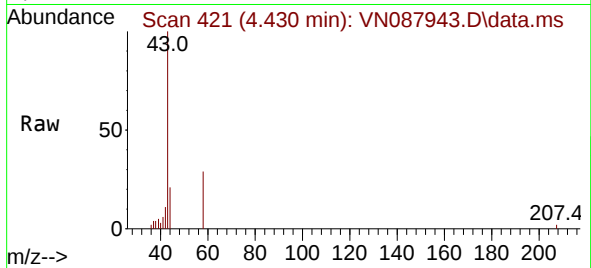




#16
Acetone
Concen: 23.817 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

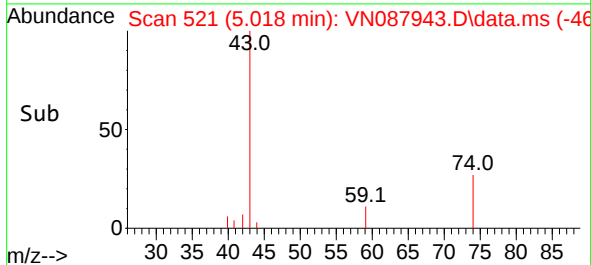
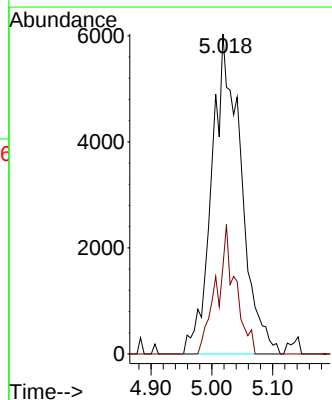
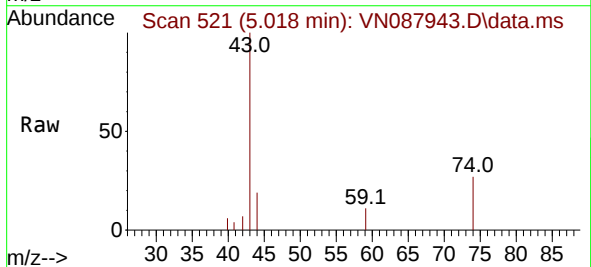
Instrument :
MSVOA_N
ClientSampleId :
VNJ-255

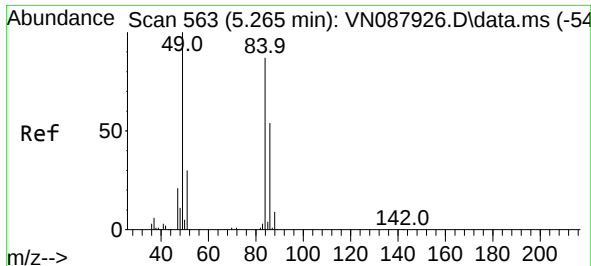
Tgt Ion: 43 Resp: 29181
Ion Ratio Lower Upper
43 100
58 29.4 24.1 36.1



#18
Methyl Acetate
Concen: 6.559 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

Tgt Ion: 43 Resp: 20113
Ion Ratio Lower Upper
43 100
74 26.2 19.7 29.5

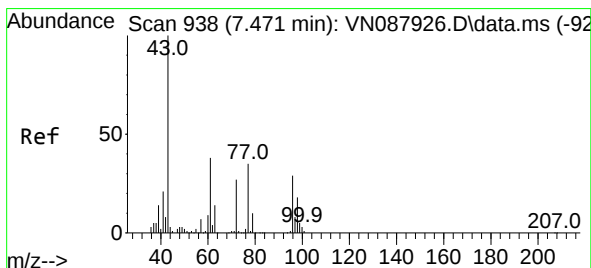
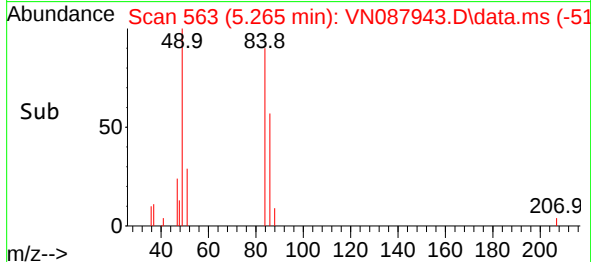
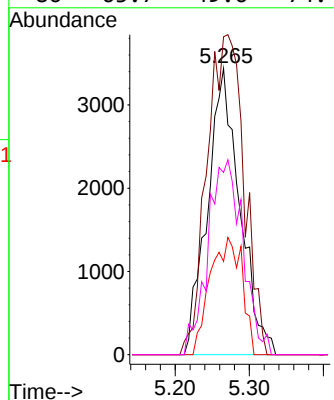
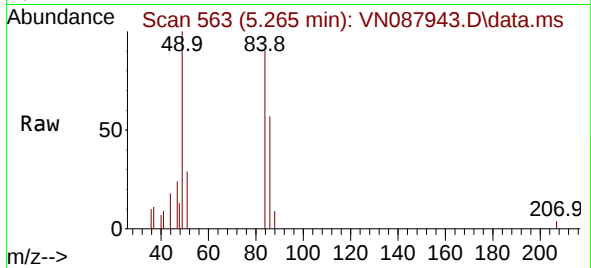




#20
Methylene Chloride
Concen: 4.203 ug/l
RT: 5.265 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

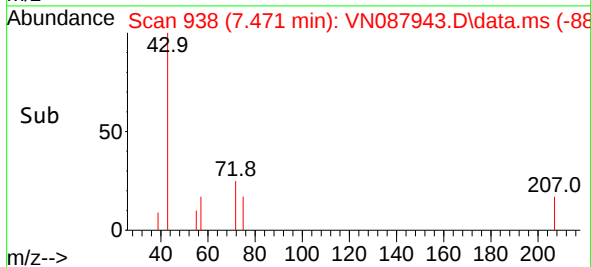
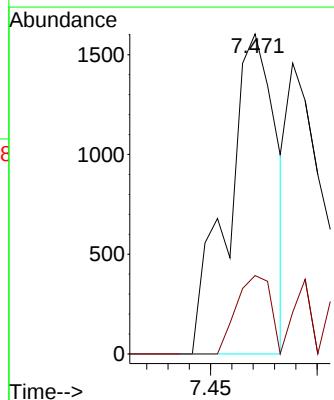
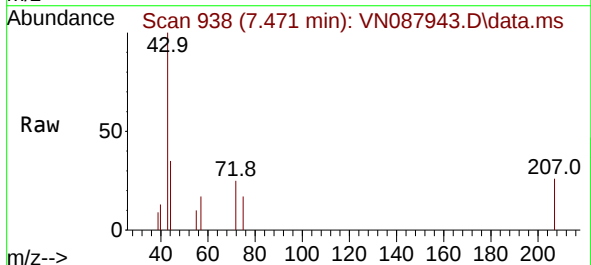
Instrument :
MSVOA_N
ClientSampleId :
VNJ-255

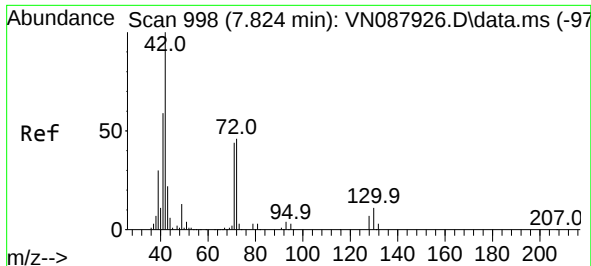
Tgt Ion:	84	Resp:	10423
Ion	Ratio	Lower	Upper
84	100		
49	111.0	92.1	138.1
51	32.6	27.7	41.5
86	63.7	49.6	74.4



#25
2-Butanone
Concen: 1.342 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.000 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

Tgt Ion:	43	Resp:	2514
Ion	Ratio	Lower	Upper
43	100		
72	24.5	21.5	32.3





#29

Tetrahydrofuran

Concen: 0.700 ug/l

RT: 7.830 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN087943.D

Acq: 24 Sep 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

VNJ-255

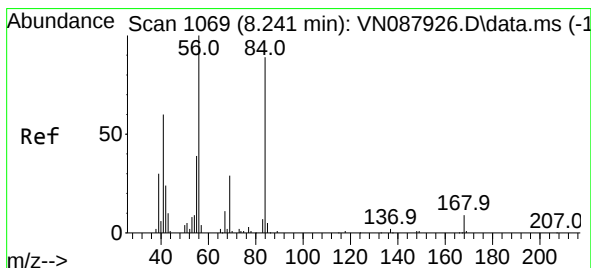
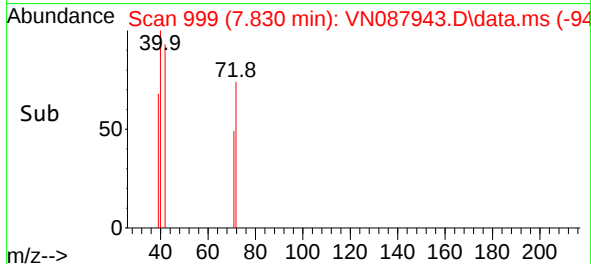
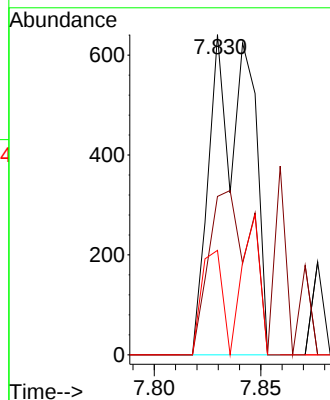
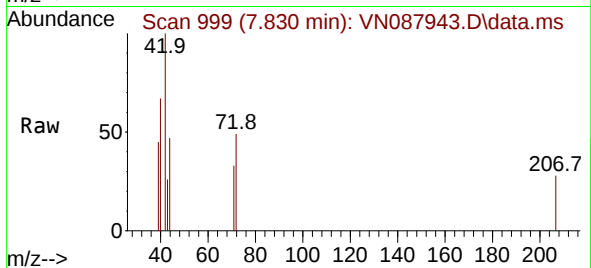
Tgt Ion: 42 Resp: 839

Ion Ratio Lower Upper

42 100

72 53.2 36.5 54.7

71 16.9 33.8 50.8#



#31

Cyclohexane

Concen: 1.438 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.035 min

Lab File: VN087943.D

Acq: 24 Sep 2025 12:50

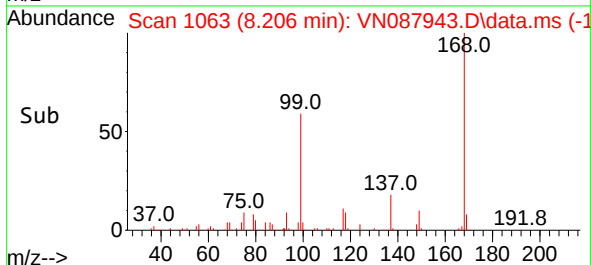
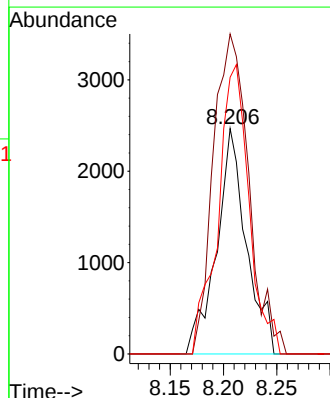
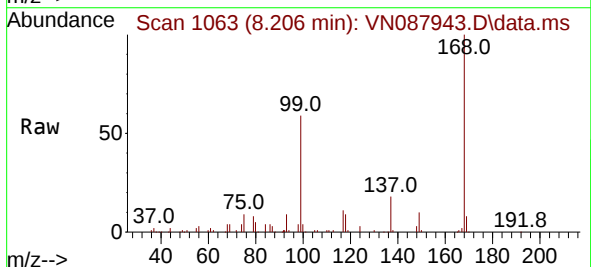
Tgt Ion: 56 Resp: 4803

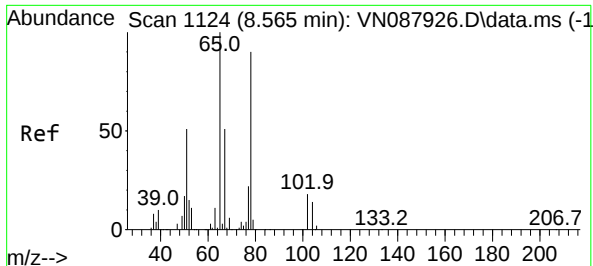
Ion Ratio Lower Upper

56 100

69 142.0 23.4 35.0#

84 122.7 70.8 106.2#





#33

1,2-Dichloroethane-d4

Concen: 61.320 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.006 min

Lab File: VN087943.D

Acq: 24 Sep 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

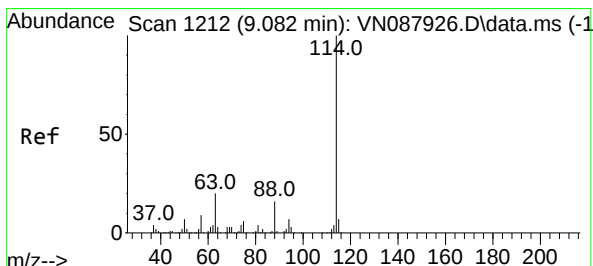
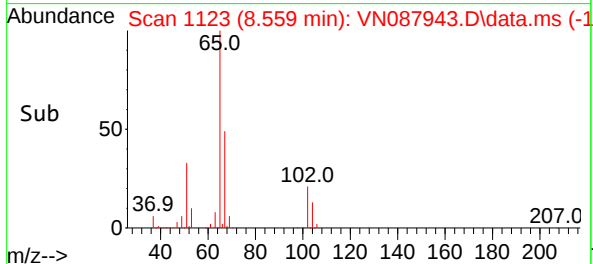
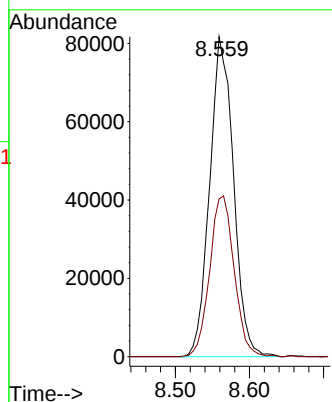
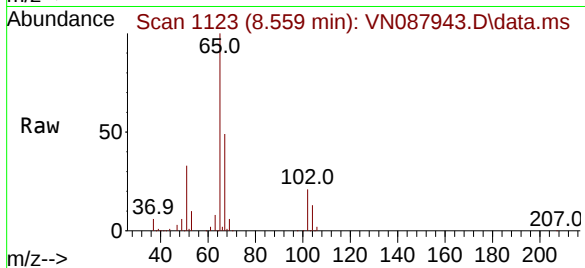
VNJ-255

Tgt Ion: 65 Resp: 182600

Ion Ratio Lower Upper

65 100

67 51.7 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087943.D

Acq: 24 Sep 2025 12:50

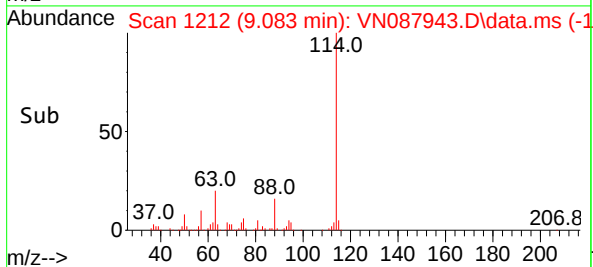
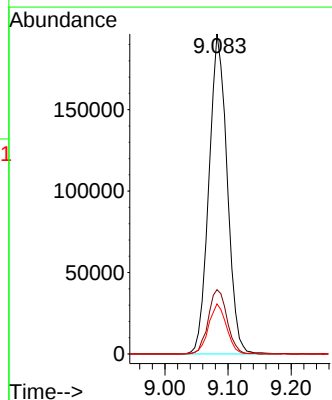
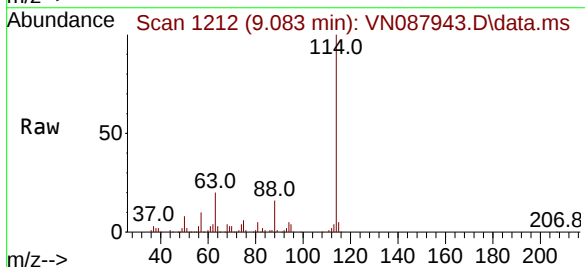
Tgt Ion: 114 Resp: 393254

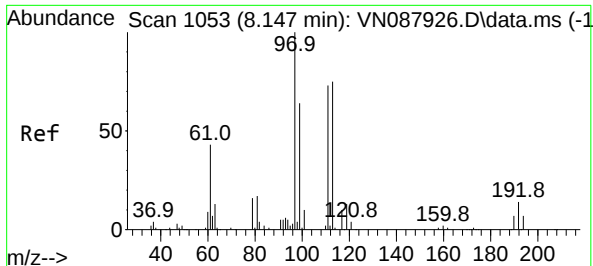
Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.0

88 15.6 0.0 31.8





#35

Dibromofluoromethane

Concen: 52.580 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087943.D

Acq: 24 Sep 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

VNJ-255

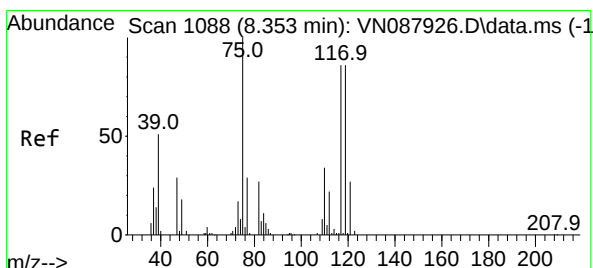
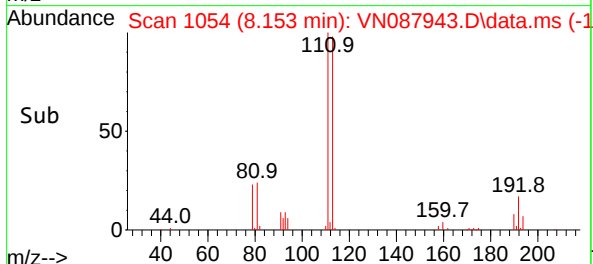
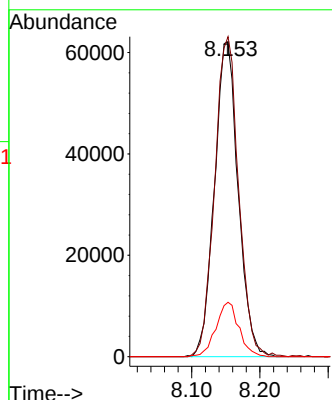
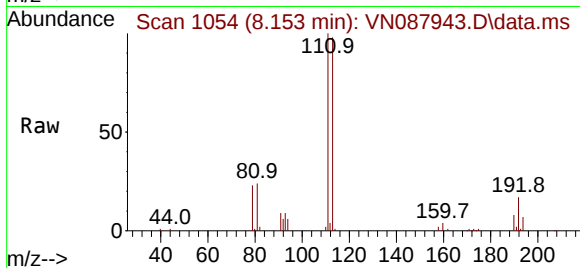
Tgt Ion:113 Resp: 150129

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.2

192 16.8 14.2 21.2



#36

1,1-Dichloropropene

Concen: 4.535 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087943.D

Acq: 24 Sep 2025 12:50

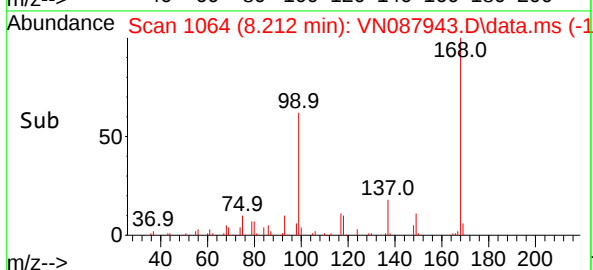
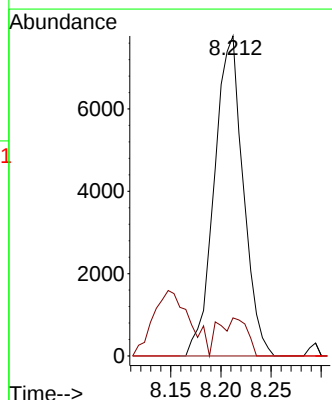
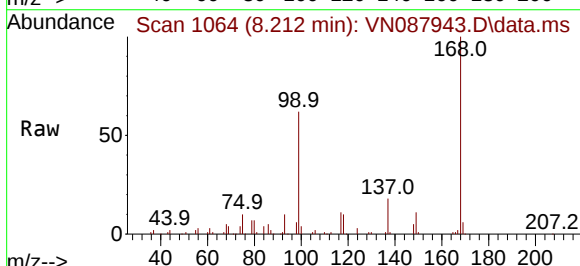
Tgt Ion: 75 Resp: 15569

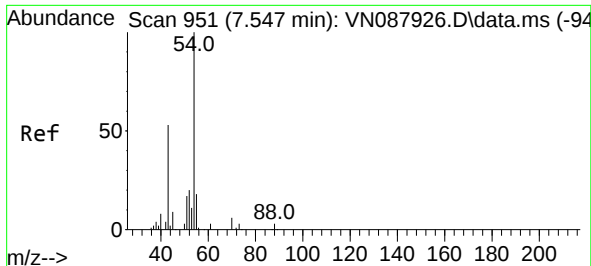
Ion Ratio Lower Upper

75 100

110 11.7 17.1 51.3#

77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 2.592 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN087943.D

Acq: 24 Sep 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

VNJ-255

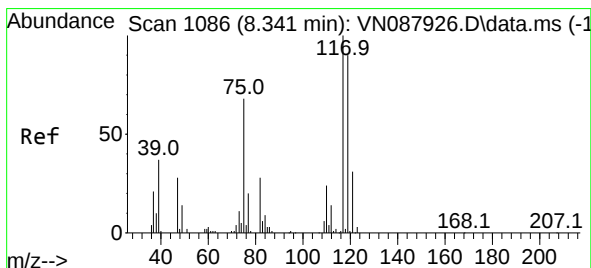
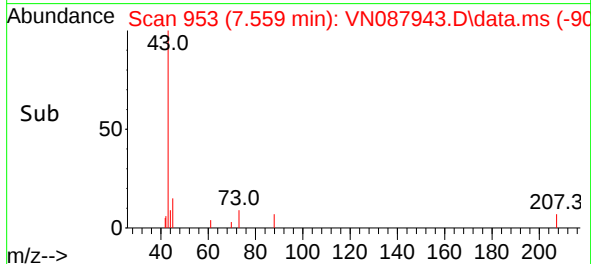
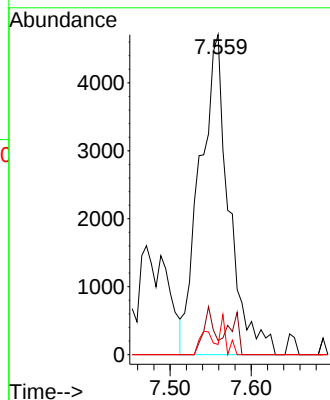
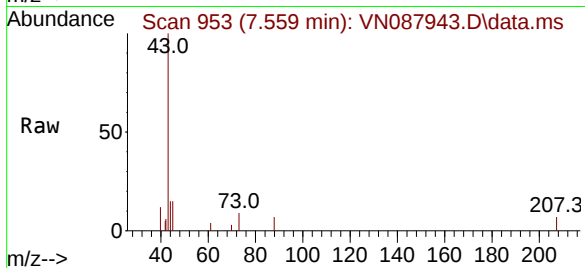
Tgt Ion: 43 Resp: 11687

Ion Ratio Lower Upper

43 100

61 0.0 10.7 16.1#

70 2.4 7.8 11.8#



#38

Carbon Tetrachloride

Concen: 5.031 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.135 min

Lab File: VN087943.D

Acq: 24 Sep 2025 12:50

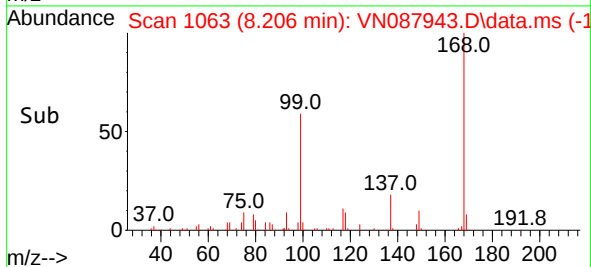
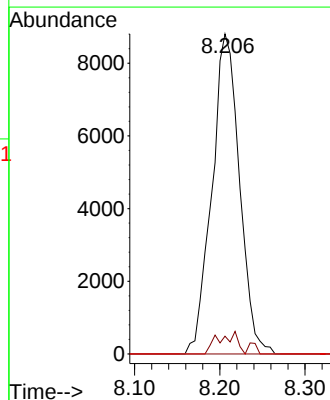
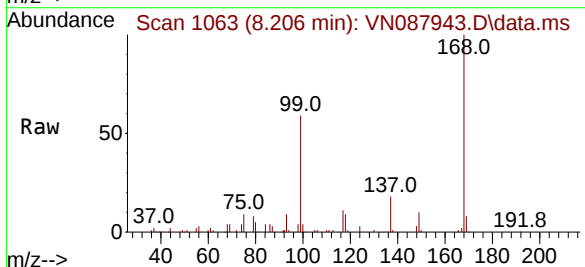
Tgt Ion: 117 Resp: 19822

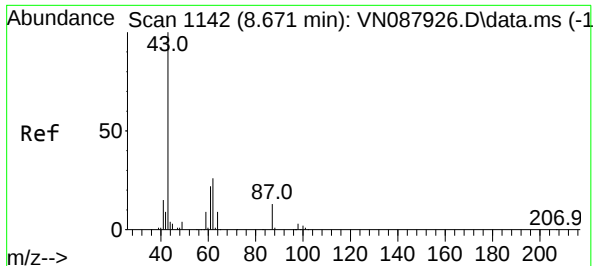
Ion Ratio Lower Upper

117 100

119 5.6 72.1 108.1#

121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 2.090 ug/l

RT: 8.671 min Scan# 1142

Delta R.T. 0.000 min

Lab File: VN087943.D

Acq: 24 Sep 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

VNJ-255

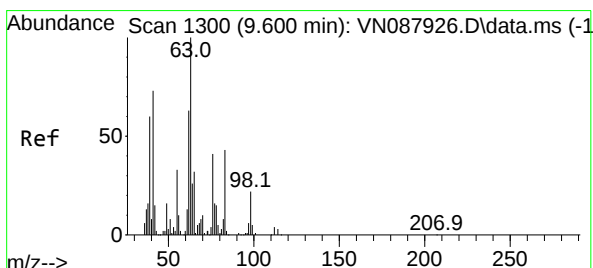
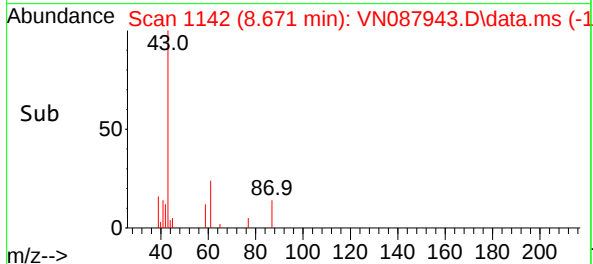
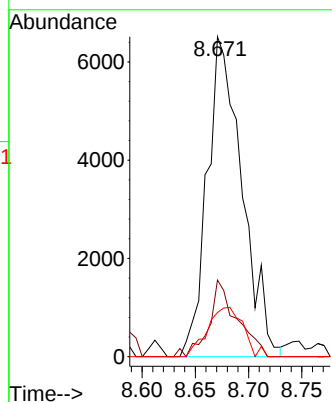
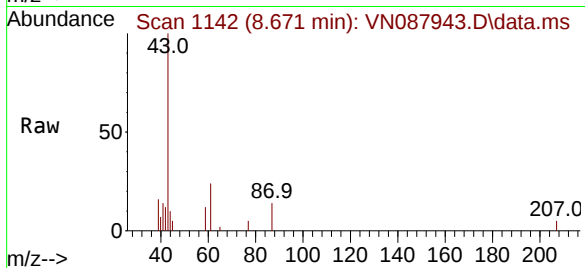
Tgt Ion: 43 Resp: 14829

Ion Ratio Lower Upper

43 100

61 19.2 20.2 30.2#

87 15.8 10.9 16.3



#45

1,2-Dichloropropane

Concen: 0.486 ug/l

RT: 9.718 min Scan# 1320

Delta R.T. 0.118 min

Lab File: VN087943.D

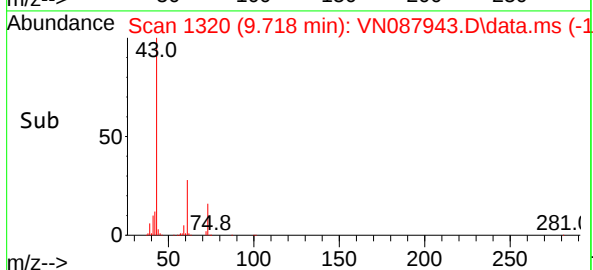
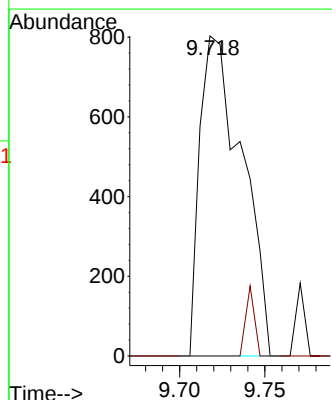
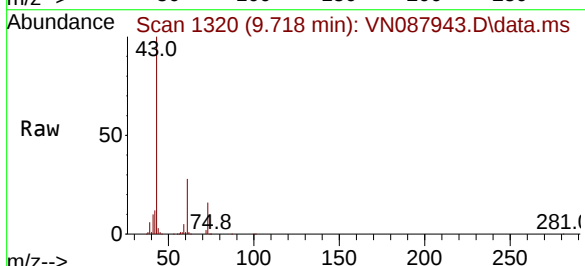
Acq: 24 Sep 2025 12:50

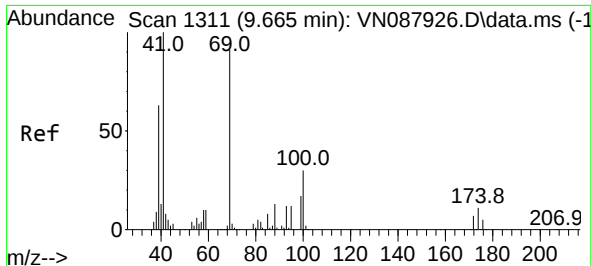
Tgt Ion: 63 Resp: 1385

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

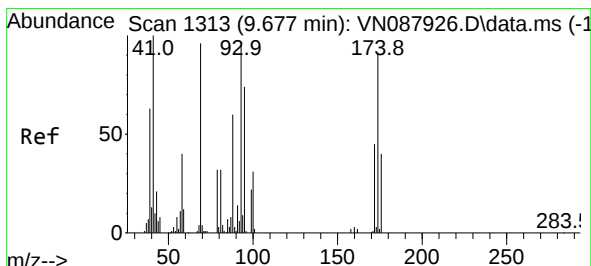
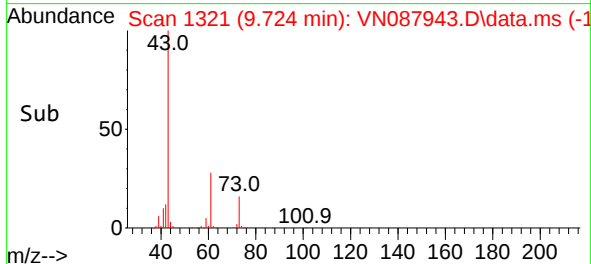
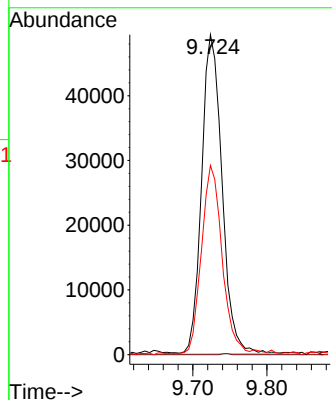
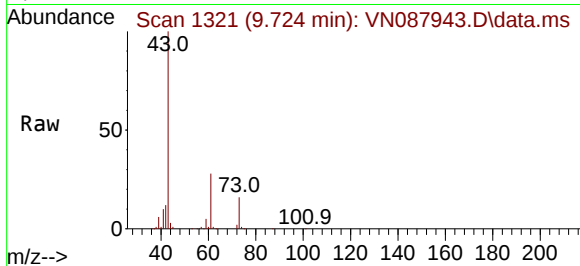




#48
Methyl methacrylate
Concen: 28.635 ug/l
RT: 9.724 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

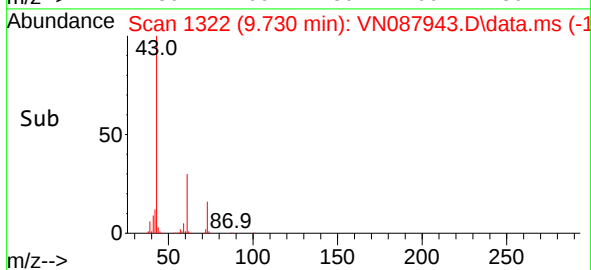
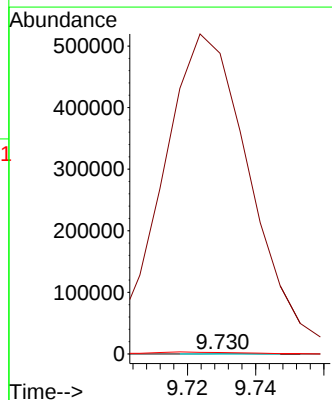
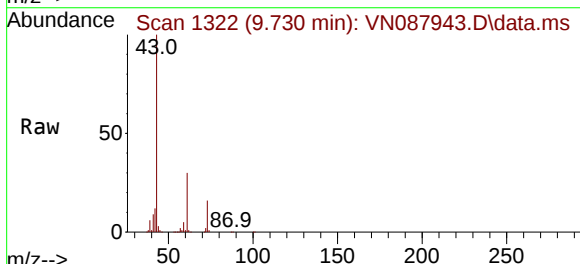
Instrument :
MSVOA_N
ClientSampleId :
VNJ-255

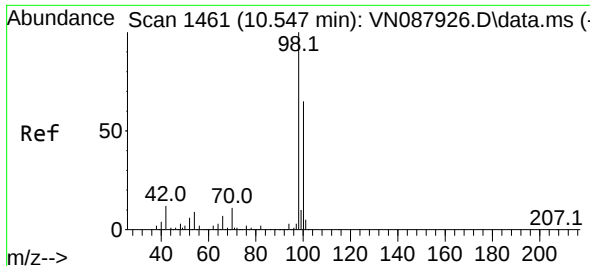
Tgt Ion: 41 Resp: 94104
Ion Ratio Lower Upper
41 100
69 0.1 70.9 106.3#
39 59.4 52.9 79.3



#49
1,4-Dioxane
Concen: 2.492 ug/l
RT: 9.730 min Scan# 1322
Delta R.T. 0.053 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

Tgt Ion: 88 Resp: 121
Ion Ratio Lower Upper
88 100
43 796309.1 22.6 33.8#
58 5386.8 57.4 86.2#

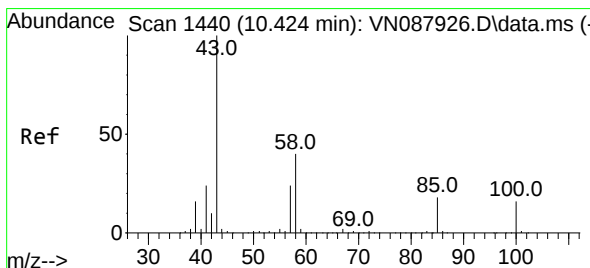
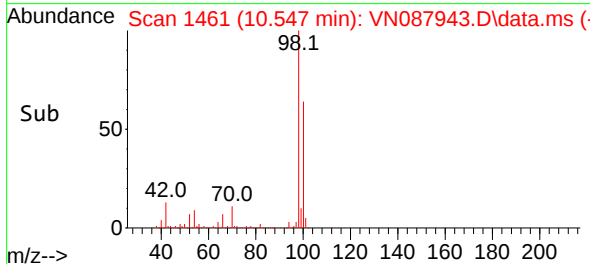
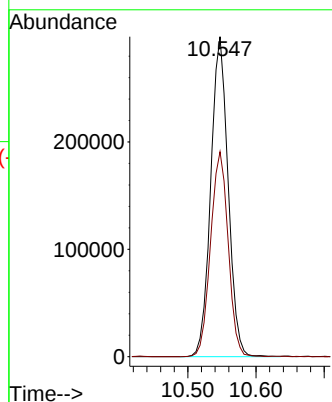
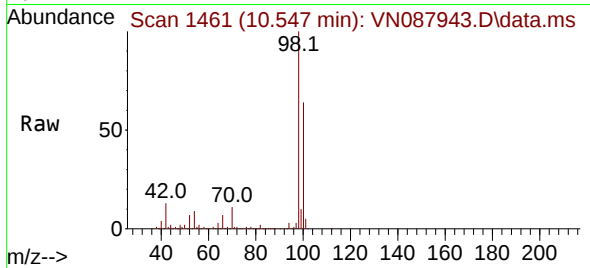




#50
Toluene-d8
Concen: 52.555 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

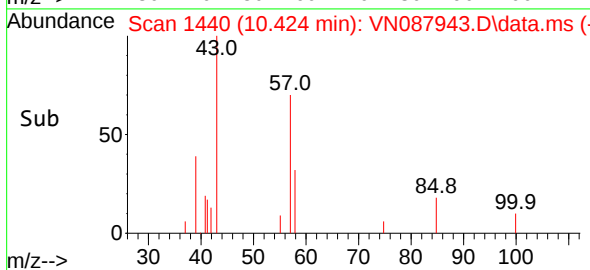
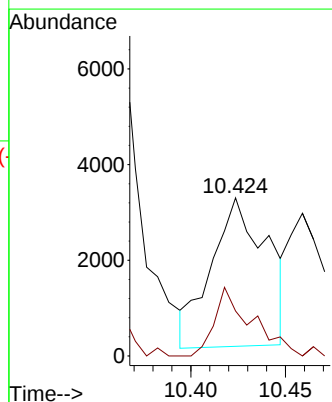
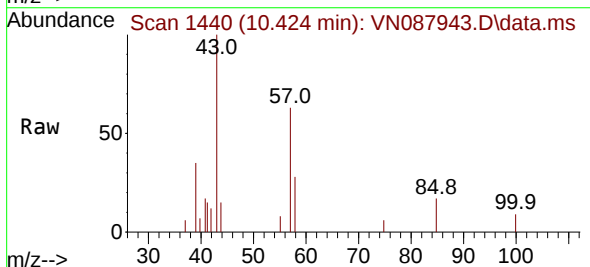
Instrument :
MSVOA_N
ClientSampleId :
VNJ-255

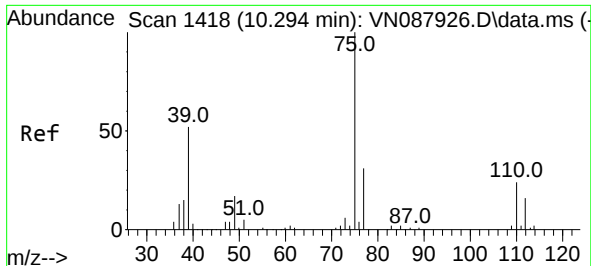
Tgt Ion: 98 Resp: 527691
Ion Ratio Lower Upper
98 100
100 64.9 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 1.433 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

Tgt Ion: 43 Resp: 6347
Ion Ratio Lower Upper
43 100
58 30.9 31.0 46.6#

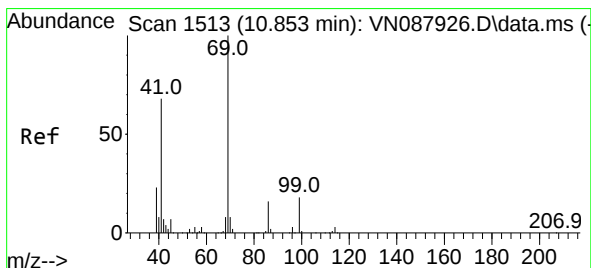
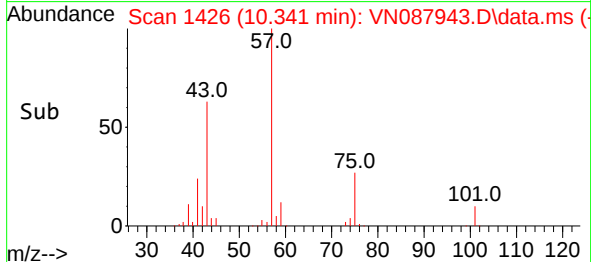
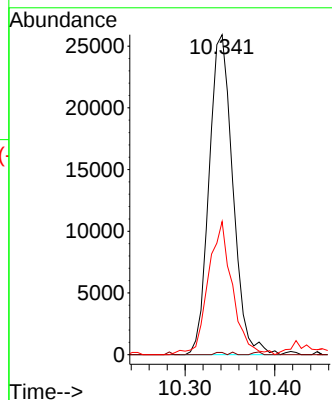
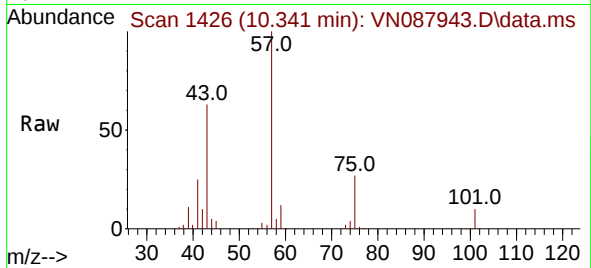




#54
 cis-1,3-Dichloropropene
 Concen: 10.154 ug/l
 RT: 10.341 min Scan# 1418
 Delta R.T. 0.047 min
 Lab File: VN087943.D
 Acq: 24 Sep 2025 12:50

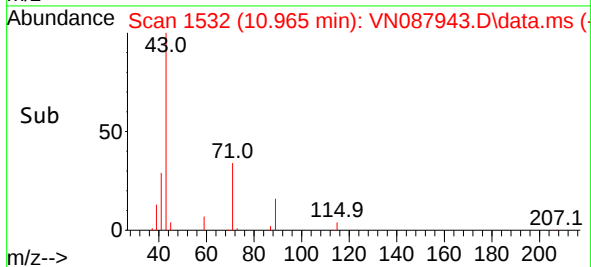
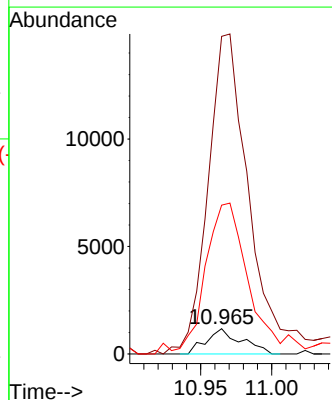
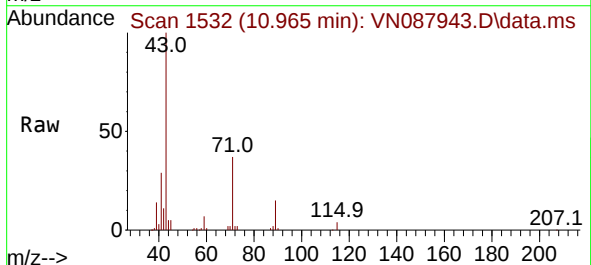
Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-255

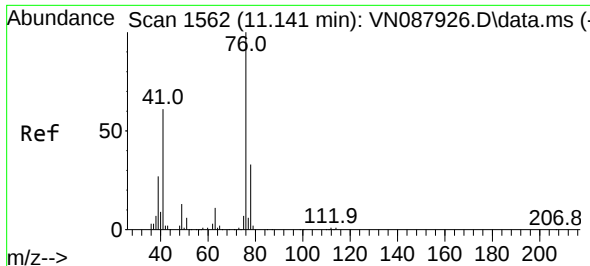
Tgt Ion: 75 Resp: 47618
 Ion Ratio Lower Upper
 75 100
 77 0.7 24.7 37.1#
 39 40.8 41.4 62.0#



#56
 Ethyl methacrylate
 Concen: 0.480 ug/l
 RT: 10.965 min Scan# 1532
 Delta R.T. 0.112 min
 Lab File: VN087943.D
 Acq: 24 Sep 2025 12:50

Tgt Ion: 69 Resp: 2012
 Ion Ratio Lower Upper
 69 100
 41 1490.1 53.8 80.6#
 39 749.0 34.7 52.1#





#57

1,3-Dichloropropane

Concen: 0.625 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN087943.D

Acq: 24 Sep 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

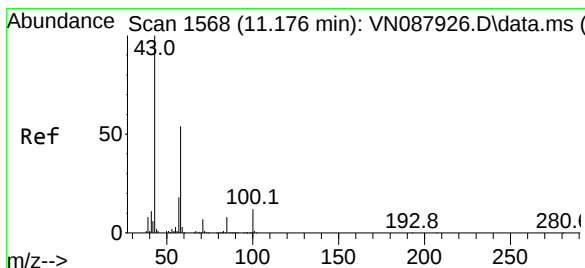
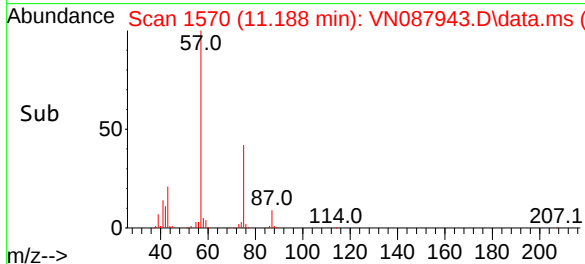
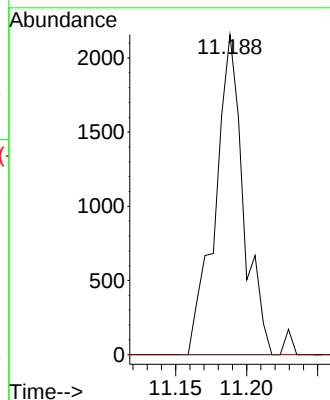
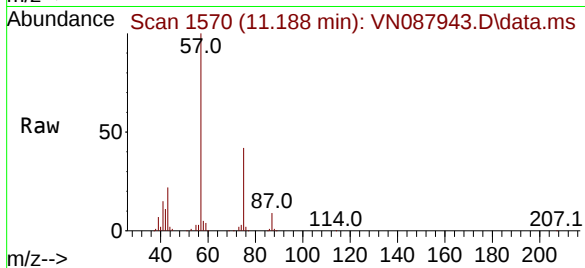
VNJ-255

Tgt Ion: 76 Resp: 2982

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 17.169 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.012 min

Lab File: VN087943.D

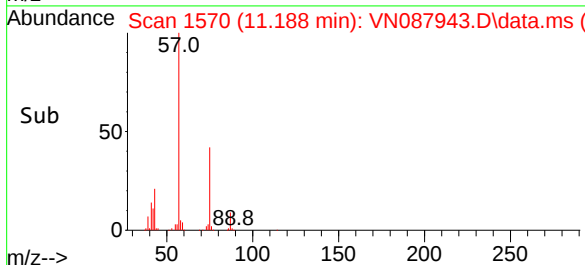
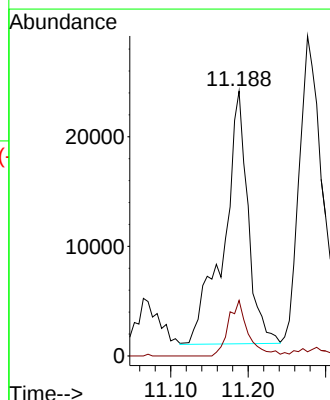
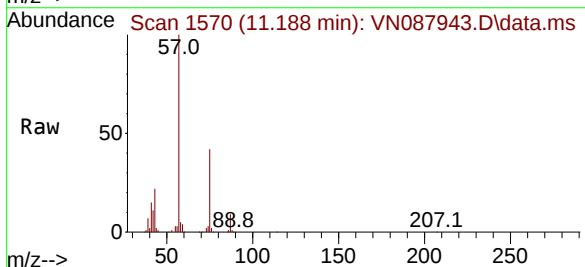
Acq: 24 Sep 2025 12:50

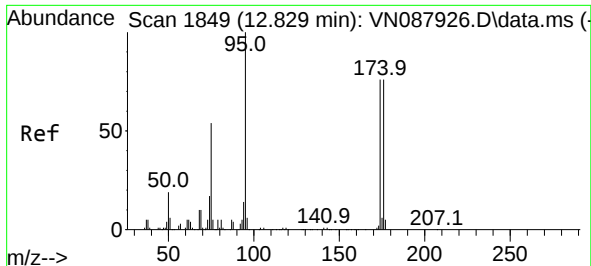
Tgt Ion: 43 Resp: 50273

Ion Ratio Lower Upper

43 100

58 17.8 26.4 79.2#

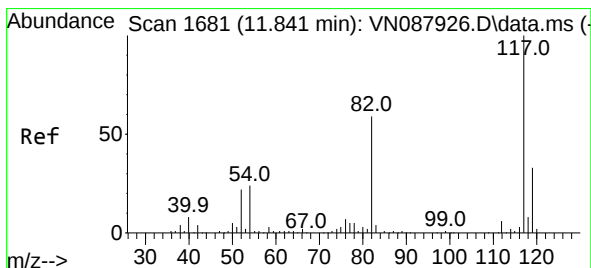
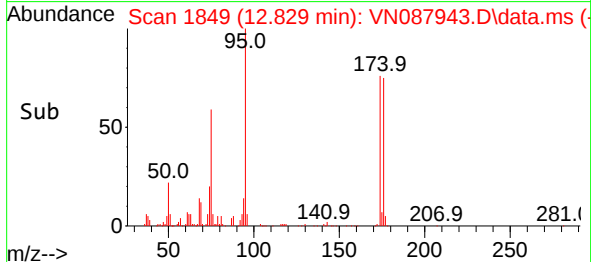
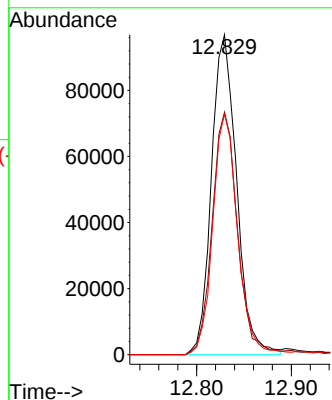
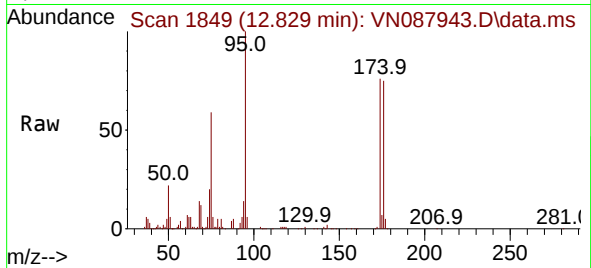




#62
4-Bromofluorobenzene
Concen: 49.748 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

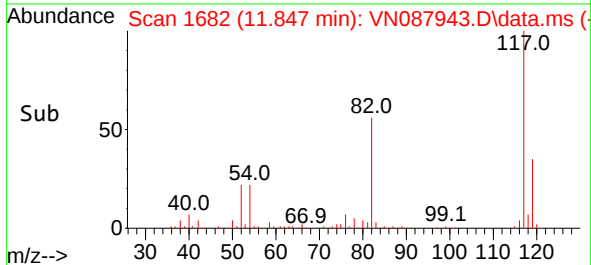
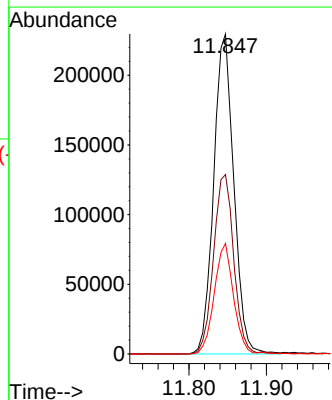
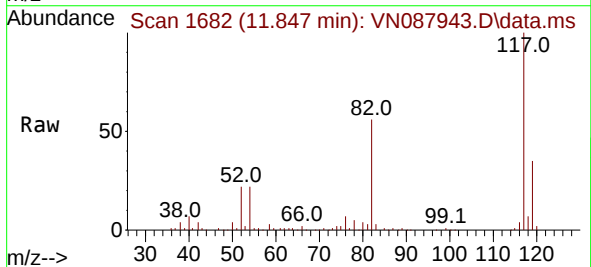
Instrument :
MSVOA_N
ClientSampleId :
VNJ-255

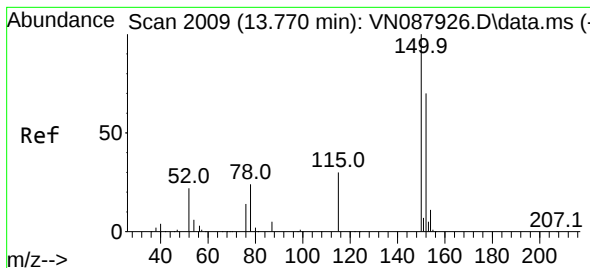
Tgt Ion: 95 Resp: 178548
Ion Ratio Lower Upper
95 100
174 76.9 0.0 159.2
176 74.2 0.0 152.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

Tgt Ion: 117 Resp: 413469
Ion Ratio Lower Upper
117 100
82 56.0 47.0 70.4
119 34.5 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VN087943.D

Acq: 24 Sep 2025 12:50

Instrument :

MSVOA_N

ClientSampleId :

VNJ-255

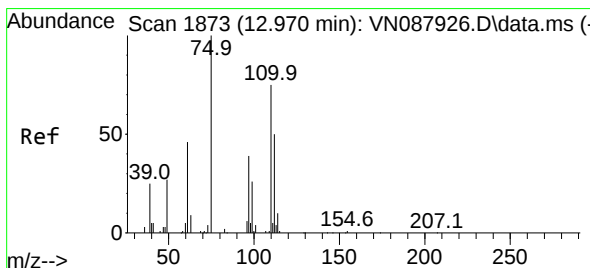
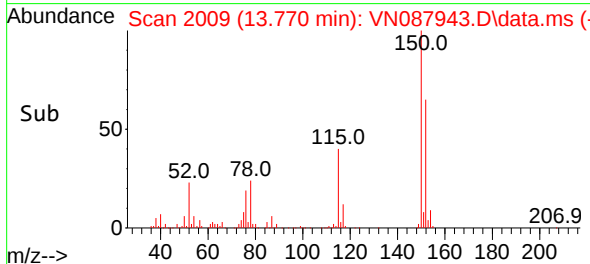
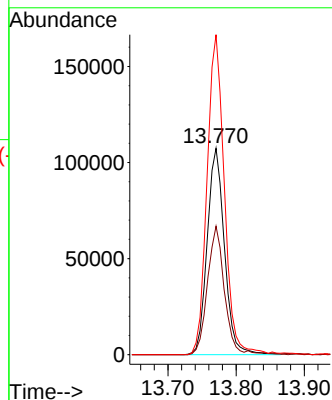
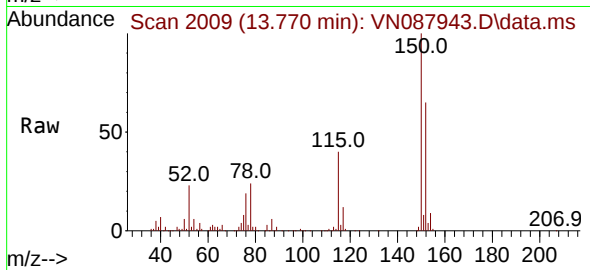
Tgt Ion:152 Resp: 189919

Ion Ratio Lower Upper

152 100

115 61.3 29.9 89.7

150 154.3 0.0 335.0



#76

1,2,3-Trichloropropane

Concen: 27.065 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087943.D

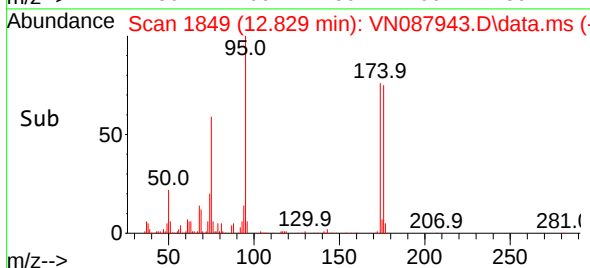
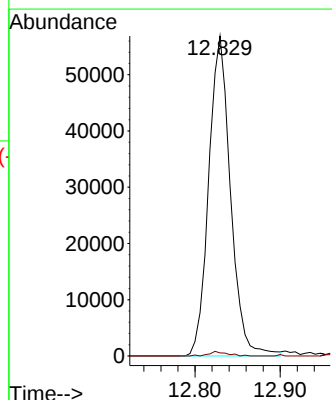
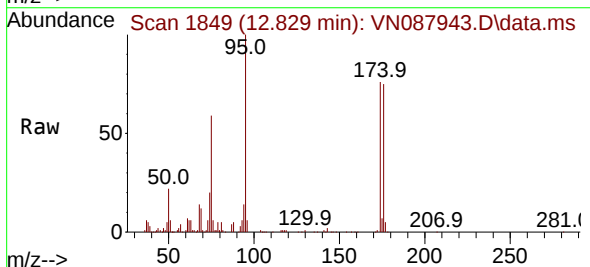
Acq: 24 Sep 2025 12:50

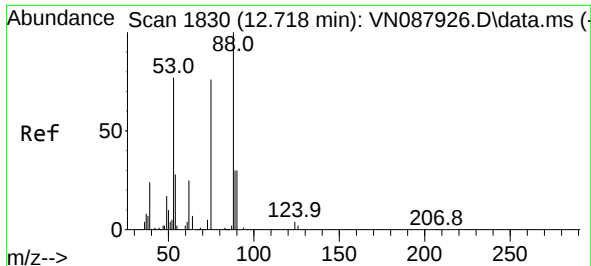
Tgt Ion: 75 Resp: 101322

Ion Ratio Lower Upper

75 100

77 1.2 89.5 268.5#

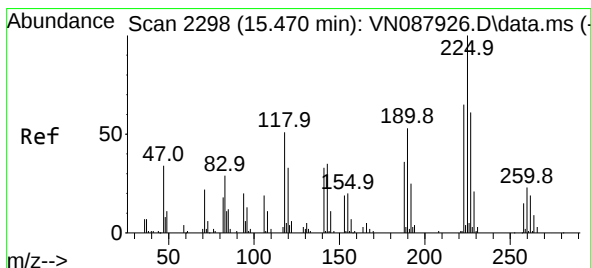
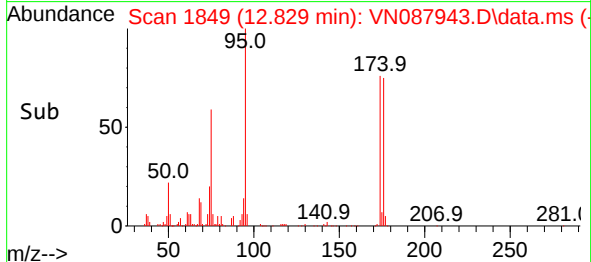
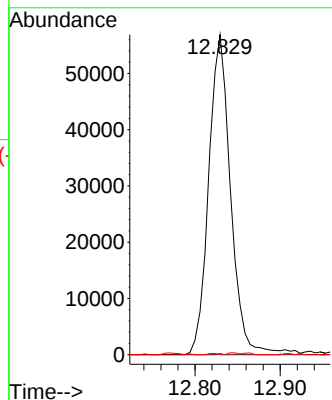
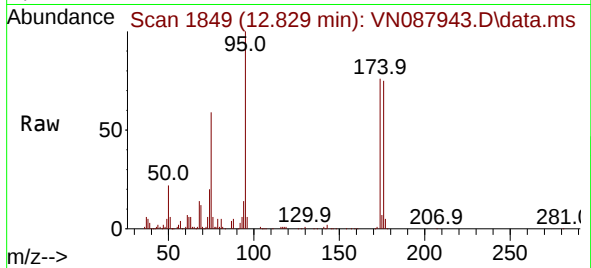




#81
trans-1,4-Dichloro-2-butene
Concen: 75.154 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

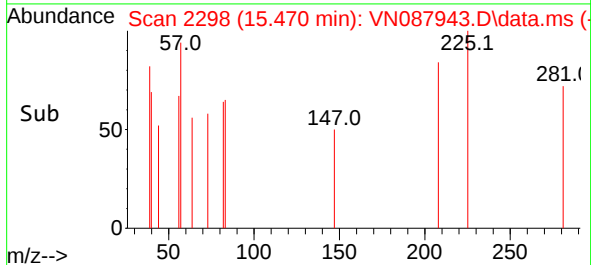
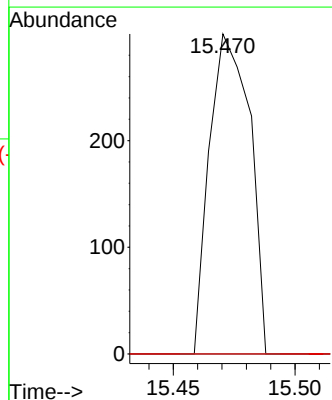
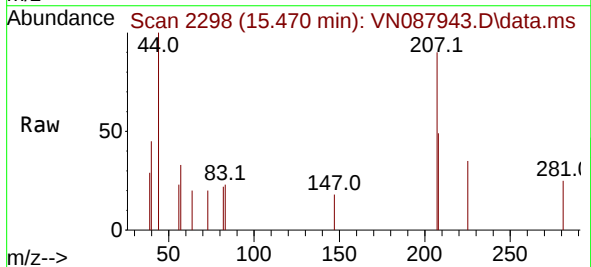
Instrument :
MSVOA_N
ClientSampleId :
VNJ-255

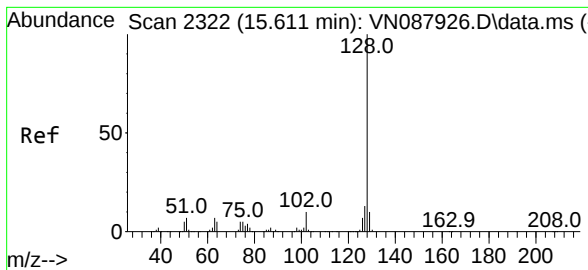
Tgt Ion: 75 Resp: 101322
Ion Ratio Lower Upper
75 100
53 0.1 82.0 123.0#
89 0.2 36.1 54.1#



#94
Hexachlorobutadiene
Concen: 0.271 ug/l
RT: 15.470 min Scan# 2298
Delta R.T. 0.000 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

Tgt Ion: 225 Resp: 347
Ion Ratio Lower Upper
225 100
223 0.0 31.8 95.4#
227 0.0 31.9 95.9#





#95
Naphthalene
Concen: 0.443 ug/l
RT: 15.623 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN087943.D
Acq: 24 Sep 2025 12:50

Instrument :
MSVOA_N
ClientSampleId :
VNJ-255

Tgt Ion:	128	Resp:	4944
Ion	Ratio	Lower	Upper
128	100		
127	4.4	10.2	15.4#
129	6.7	8.6	13.0#

