

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111725\
 Data File : VN088302.D
 Acq On : 17 Nov 2025 14:21
 Operator : JC\MD
 Sample : Q3647-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-212

Quant Time: Nov 18 03:01:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

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

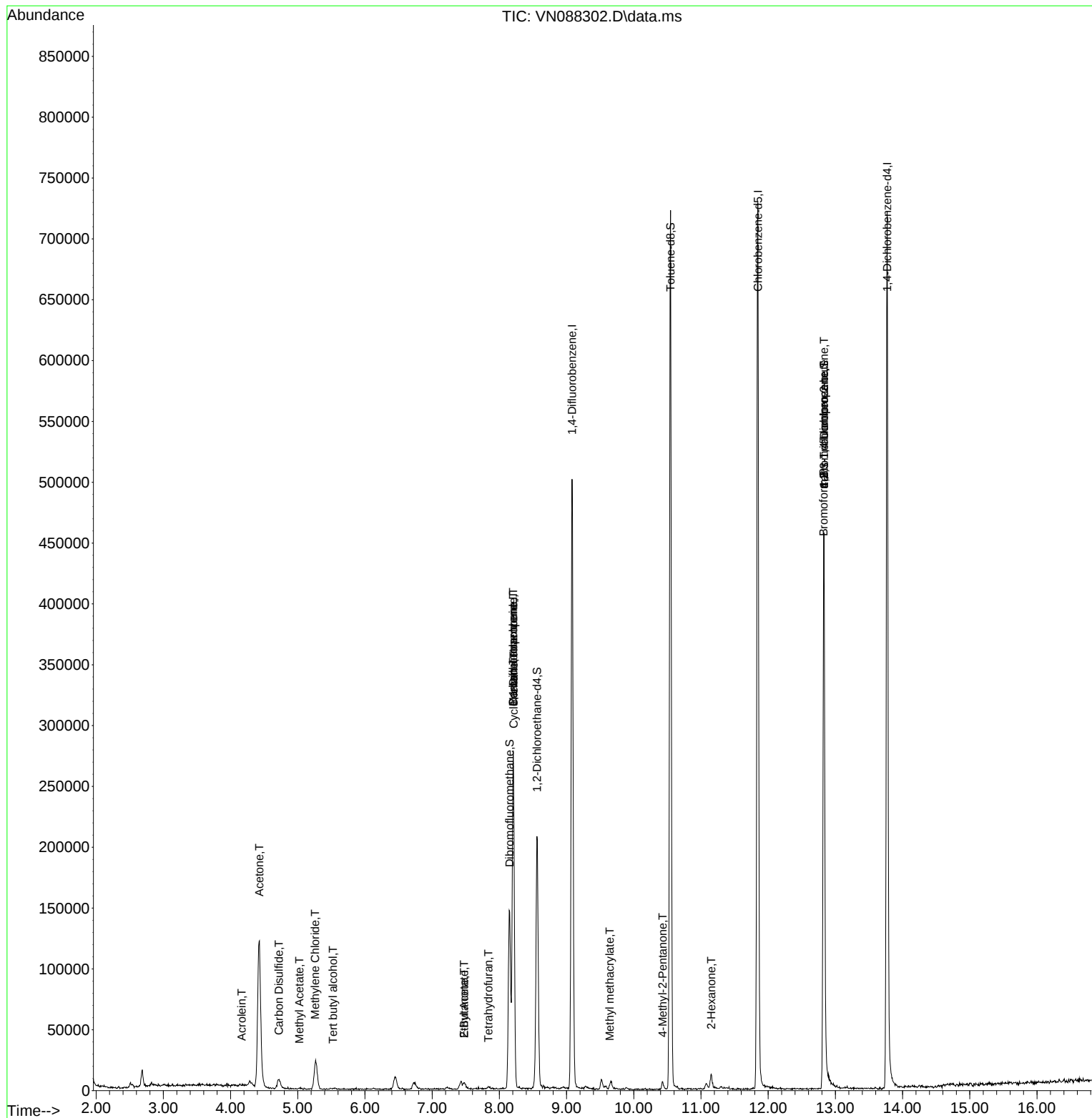
Internal Standards						
1) Pentafluorobenzene	8.206	168	188952	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	414135	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	410032	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	197276	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	171725	52.557	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 105.120%			
35) Dibromofluoromethane	8.153	113	105882	38.057	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 76.120%			
50) Toluene-d8	10.547	98	469946	43.837	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 87.680%			
62) 4-Bromofluorobenzene	12.829	95	167605	44.270	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 88.540%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.524	59	1094	1.944	ug/l #	71
13) Acrolein	4.165	56	362	0.572	ug/l #	14
16) Acetone	4.430	43	245688	149.674	ug/l	99
17) Carbon Disulfide	4.718	76	1607	0.223	ug/l #	74
18) Methyl Acetate	5.024	43	1214	0.361	ug/l #	54
20) Methylene Chloride	5.259	84	17897	6.495	ug/l	84
25) 2-Butanone	7.477	43	8840	4.086	ug/l	92
29) Tetrahydrofuran	7.836	42	1239	0.879	ug/l #	77
31) Cyclohexane	8.212	56	5549	1.213	ug/l #	31
36) 1,1-Dichloropropene	8.206	75	18093	4.454	ug/l #	51
37) Ethyl Acetate	7.477	43	8840	1.686	ug/l #	72
38) Carbon Tetrachloride	8.206	117	21398	5.100	ug/l #	14
48) Methyl methacrylate	9.641	41	874	0.235	ug/l #	46
51) 4-Methyl-2-Pentanone	10.429	43	5566	1.168	ug/l	96
59) 2-Hexanone	11.153	43	10497	3.320	ug/l #	26
71) Bromoform	12.823	173	1061	0.466	ug/l #	28
76) 1,2,3-Trichloropropane	12.829	75	95695	21.217	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	95695	59.185	ug/l #	1

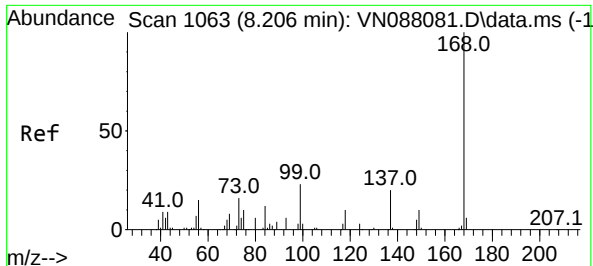
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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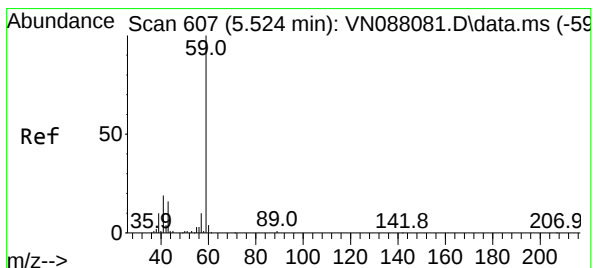
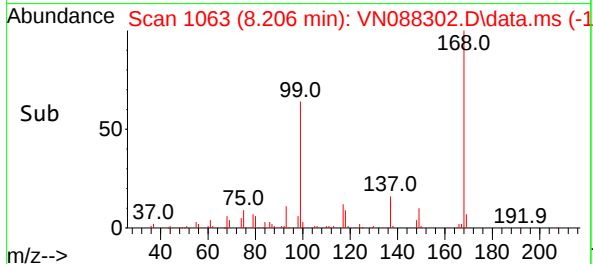
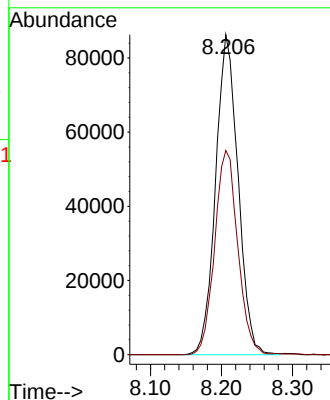
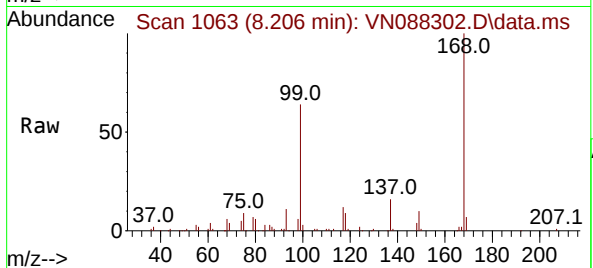




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1
Delta R.T. 0.000 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

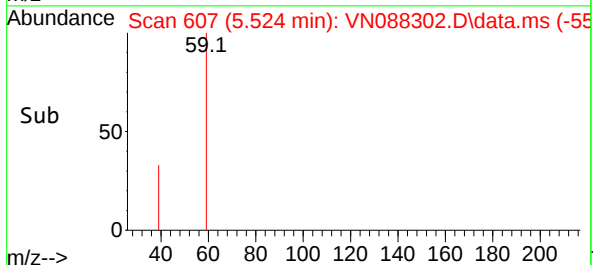
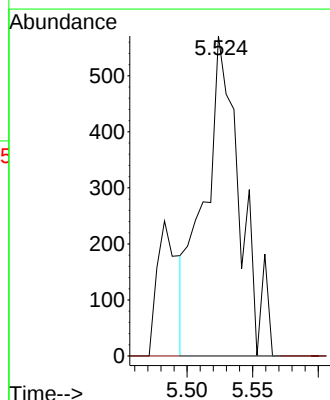
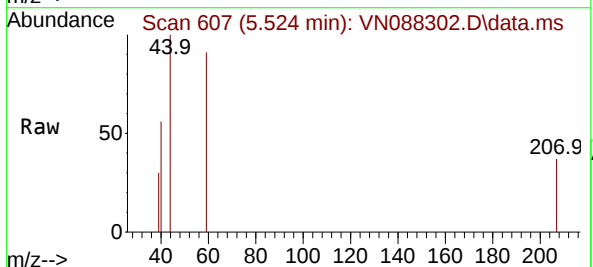
Instrument :
MSVOA_N
ClientSampleId :
VNJ-212

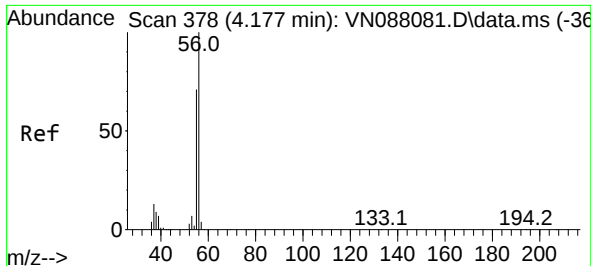
Tgt Ion:168 Resp: 188952
Ion Ratio Lower Upper
168 100
99 63.8 57.2 85.8



#11
Tert butyl alcohol
Concen: 1.944 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.006 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

Tgt Ion: 59 Resp: 1094
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

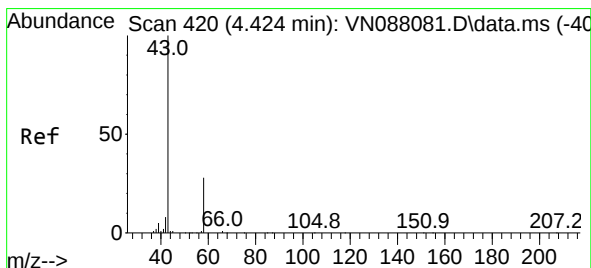
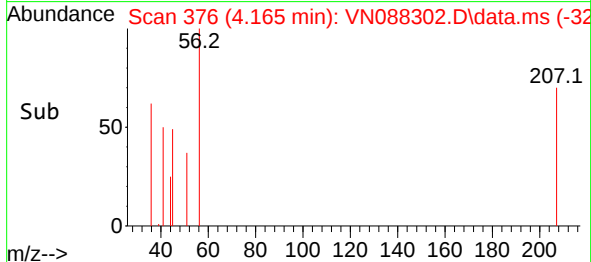
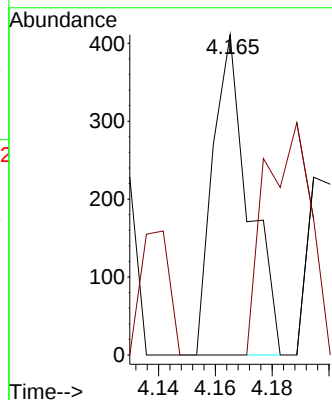
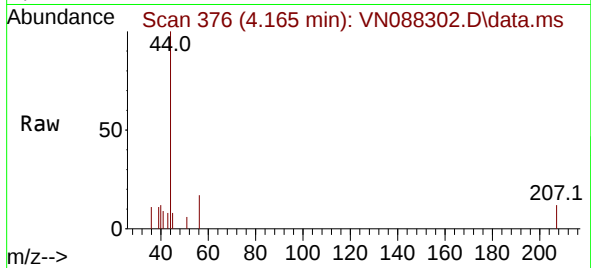




#13
Acrolein
Concen: 0.572 ug/l
RT: 4.165 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

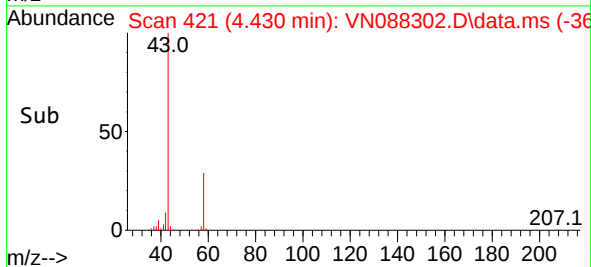
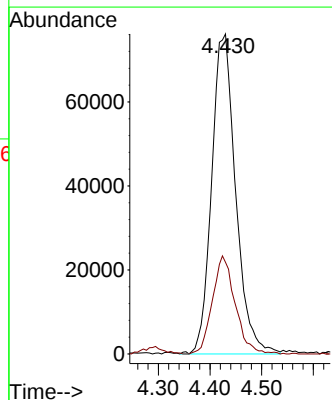
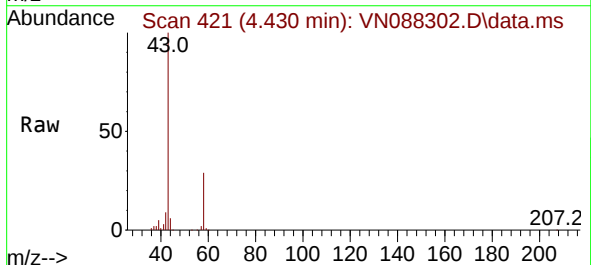
Instrument :
MSVOA_N
ClientSampleId :
VNJ-212

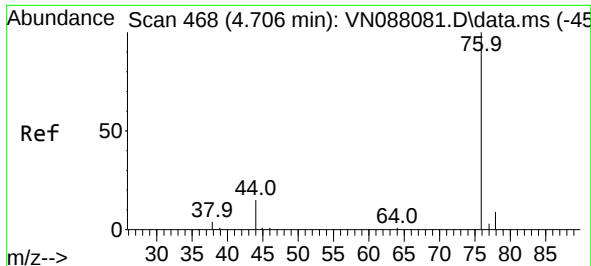
Tgt Ion: 56 Resp: 362
Ion Ratio Lower Upper
56 100
55 0.0 57.3 85.9#



#16
Acetone
Concen: 149.674 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

Tgt Ion: 43 Resp: 245688
Ion Ratio Lower Upper
43 100
58 28.7 22.6 33.8

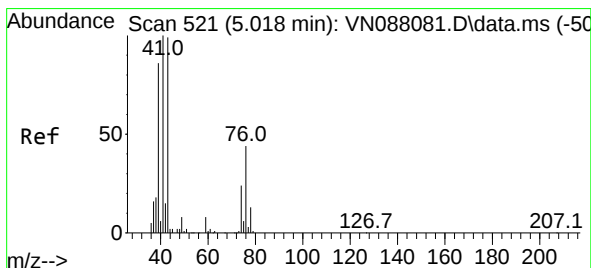
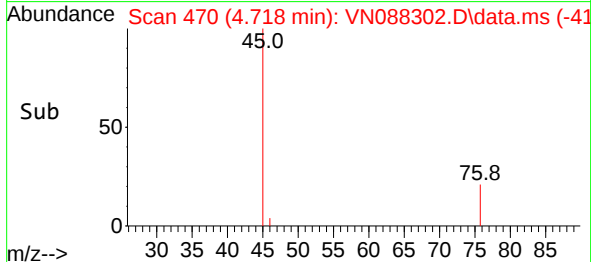
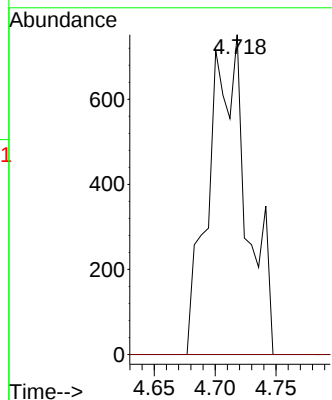
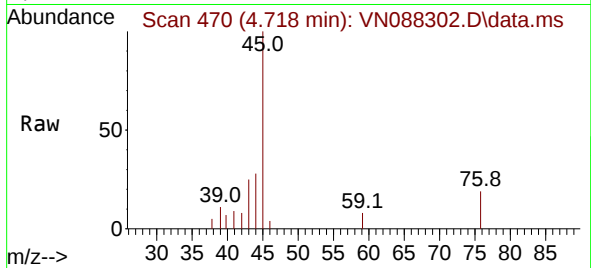




#17
Carbon Disulfide
Concen: 0.223 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

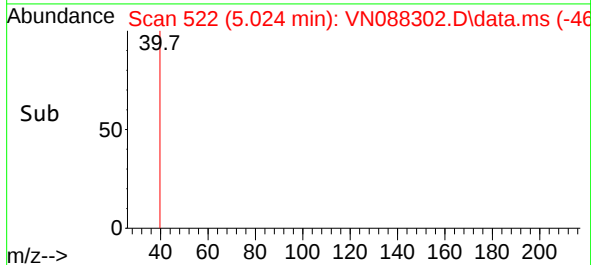
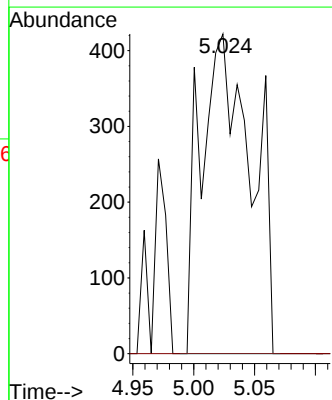
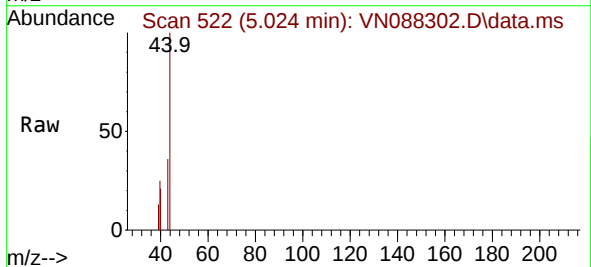
Instrument :
MSVOA_N
ClientSampleId :
VNJ-212

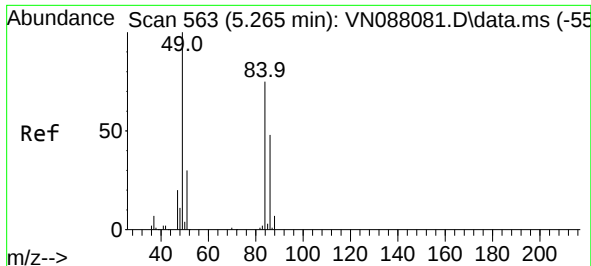
Tgt Ion: 76 Resp: 1607
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#18
Methyl Acetate
Concen: 0.361 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

Tgt Ion: 43 Resp: 1214
Ion Ratio Lower Upper
43 100
74 0.0 17.6 26.4#

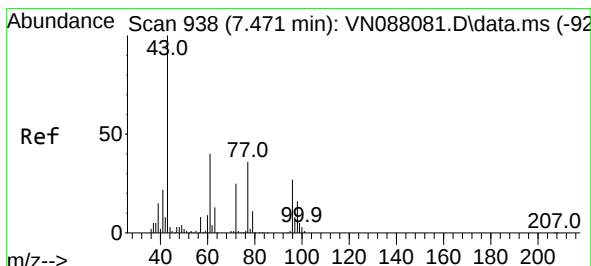
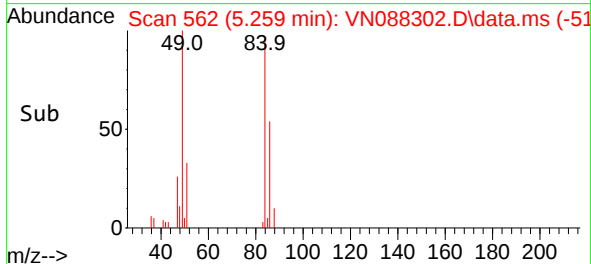
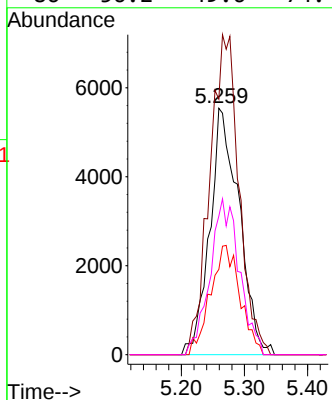
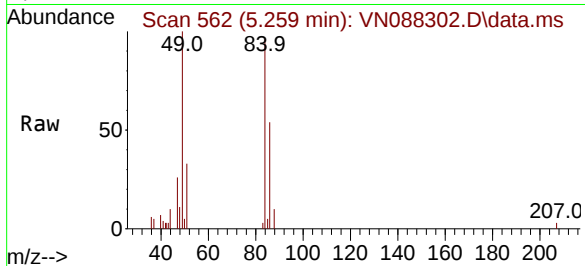




#20
Methylene Chloride
Concen: 6.495 ug/l
RT: 5.259 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

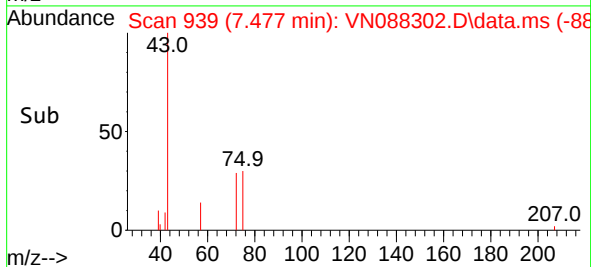
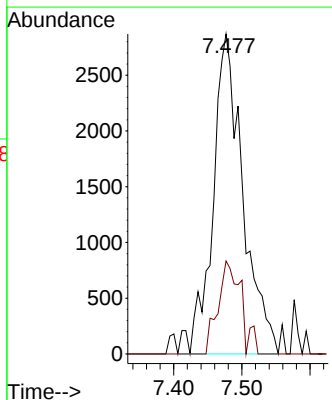
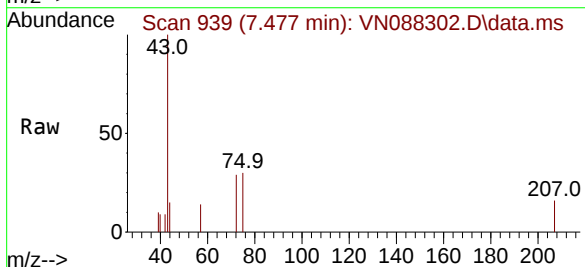
Instrument :
MSVOA_N
ClientSampleId :
VNJ-212

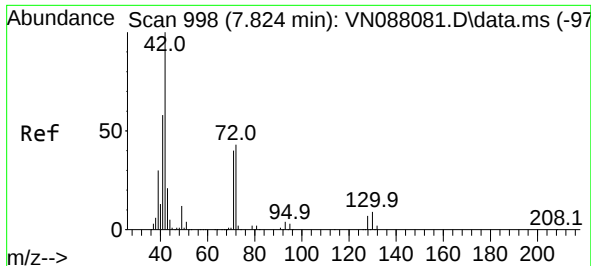
Tgt Ion:	84	Resp:	17897
Ion	Ratio	Lower	Upper
84	100		
49	103.7	103.4	155.2
51	34.6	33.8	50.8
86	56.2	49.6	74.4



#25
2-Butanone
Concen: 4.086 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

Tgt Ion:	43	Resp:	8840
Ion	Ratio	Lower	Upper
43	100		
72	29.1	19.9	29.9





#29

Tetrahydrofuran

Concen: 0.879 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.012 min

Lab File: VN088302.D

Acq: 17 Nov 2025 14:21

Instrument :

MSVOA_N

ClientSampleId :

VNJ-212

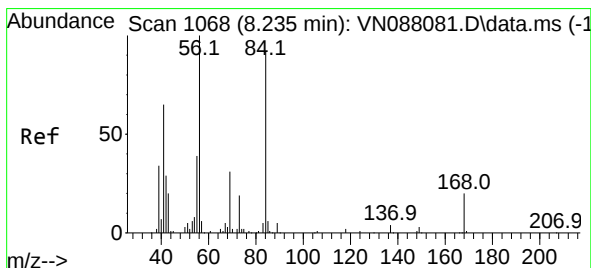
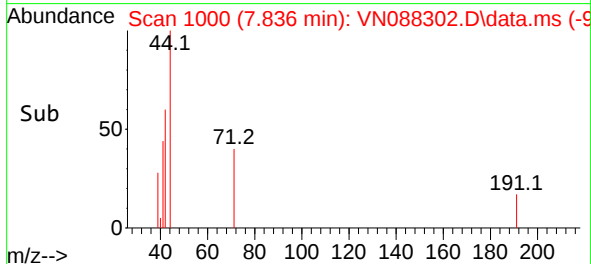
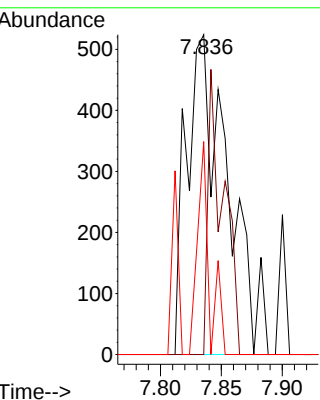
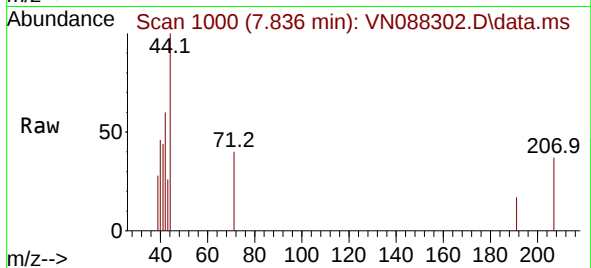
Tgt Ion: 42 Resp: 1239

Ion Ratio Lower Upper

42 100

72 33.3 33.7 50.5#

71 19.1 31.9 47.9#



#31

Cyclohexane

Concen: 1.213 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.024 min

Lab File: VN088302.D

Acq: 17 Nov 2025 14:21

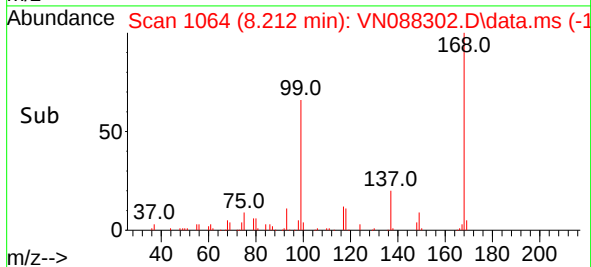
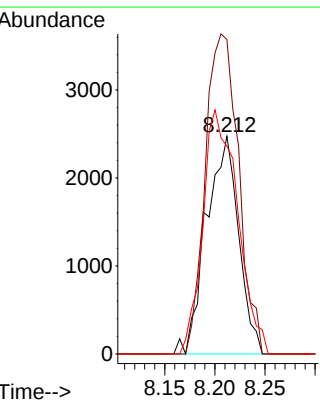
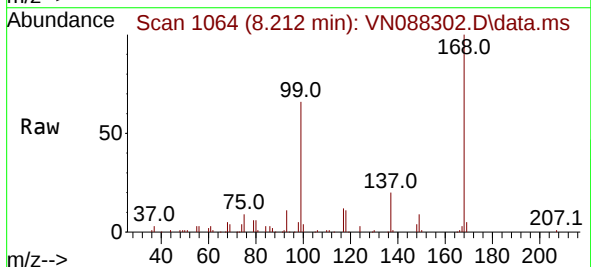
Tgt Ion: 56 Resp: 5549

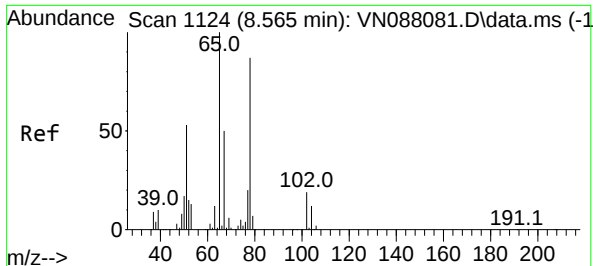
Ion Ratio Lower Upper

56 100

69 144.5 23.7 35.5#

84 95.6 64.7 97.1





#33

1,2-Dichloroethane-d4

Concen: 52.557 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088302.D

Acq: 17 Nov 2025 14:21

Instrument :

MSVOA_N

ClientSampleId :

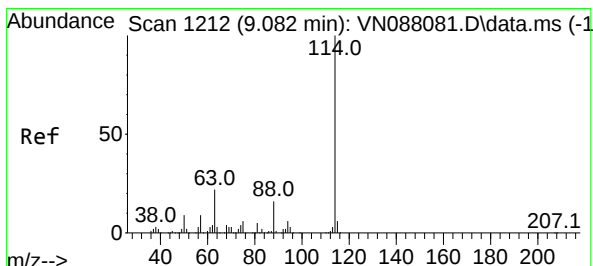
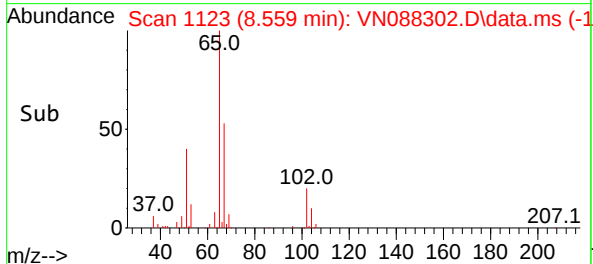
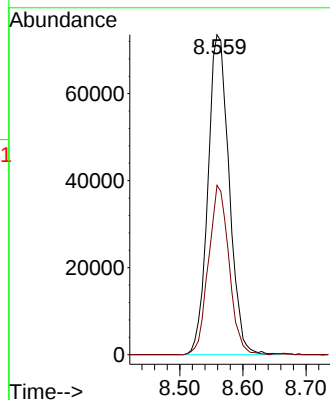
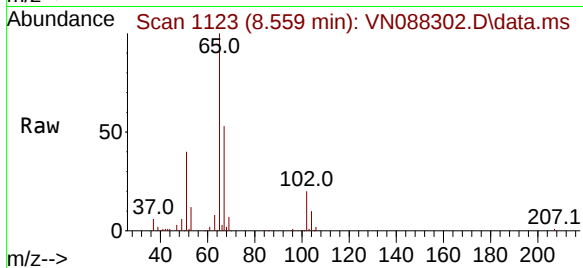
VNJ-212

Tgt Ion: 65 Resp: 171725

Ion Ratio Lower Upper

65 100

67 51.2 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: VN088302.D

Acq: 17 Nov 2025 14:21

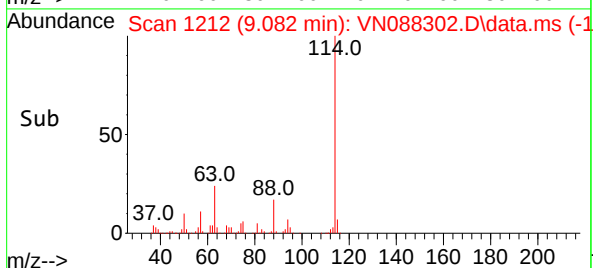
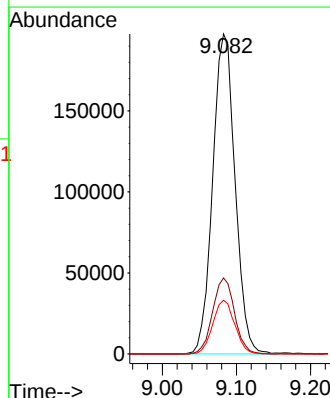
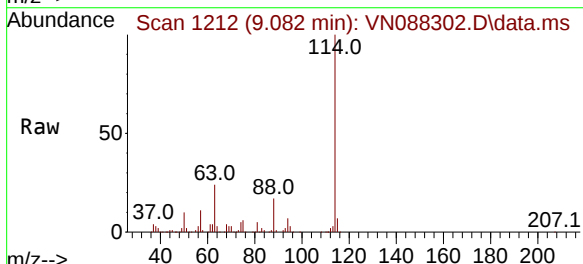
Tgt Ion: 114 Resp: 414135

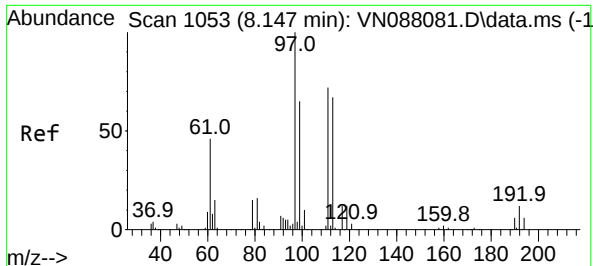
Ion Ratio Lower Upper

114 100

63 23.8 0.0 45.2

88 16.8 0.0 33.4

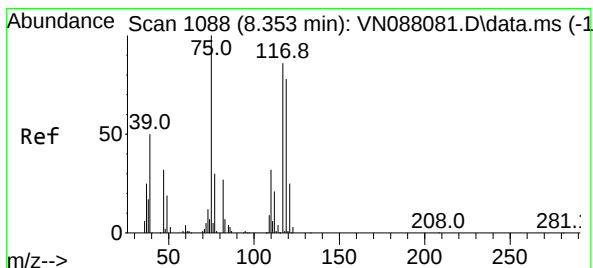
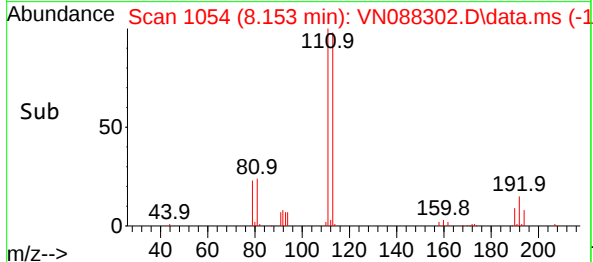
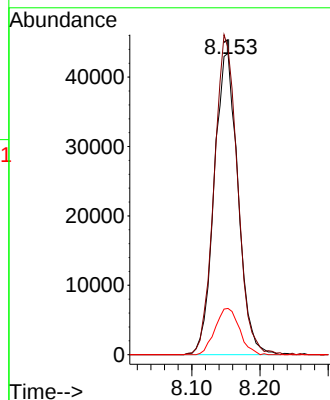
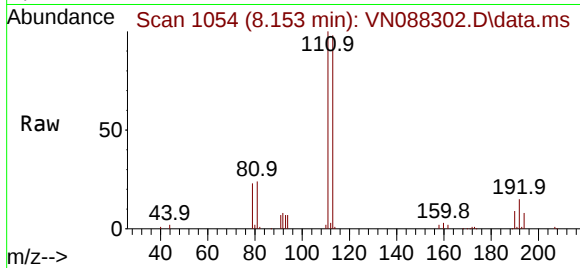




#35
 Dibromofluoromethane
 Concen: 38.057 ug/l
 RT: 8.153 min Scan# 1054
 Delta R.T. -0.000 min
 Lab File: VN088302.D
 Acq: 17 Nov 2025 14:21

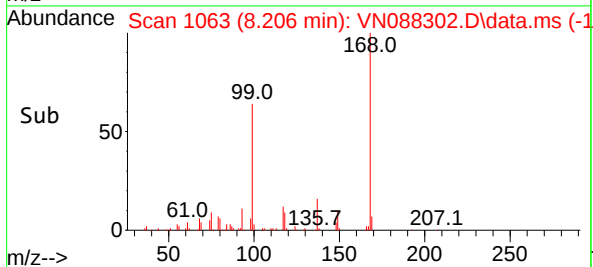
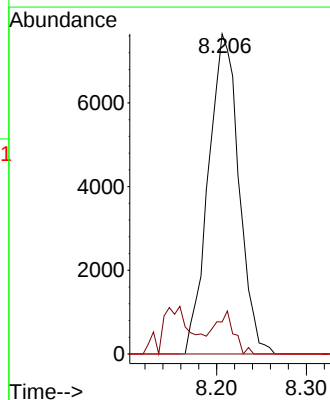
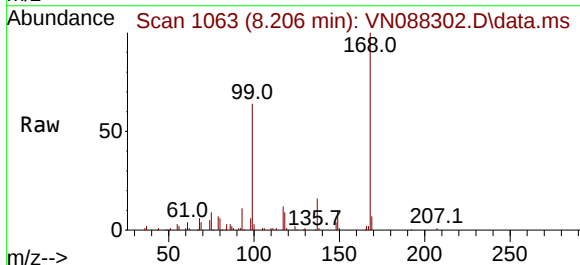
Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-212

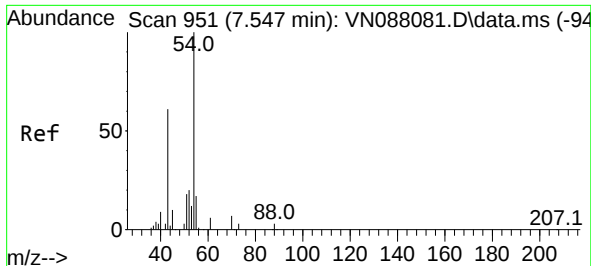
Tgt Ion:113 Resp: 105882
 Ion Ratio Lower Upper
 113 100
 111 103.7 82.8 124.2
 192 15.7 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 4.454 ug/l
 RT: 8.206 min Scan# 1063
 Delta R.T. -0.147 min
 Lab File: VN088302.D
 Acq: 17 Nov 2025 14:21

Tgt Ion: 75 Resp: 18093
 Ion Ratio Lower Upper
 75 100
 110 8.3 15.9 47.6#
 77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.686 ug/l

RT: 7.477 min Scan# 91

Delta R.T. -0.071 min

Lab File: VN088302.D

Acq: 17 Nov 2025 14:21

Instrument :

MSVOA_N

ClientSampleId :

VNJ-212

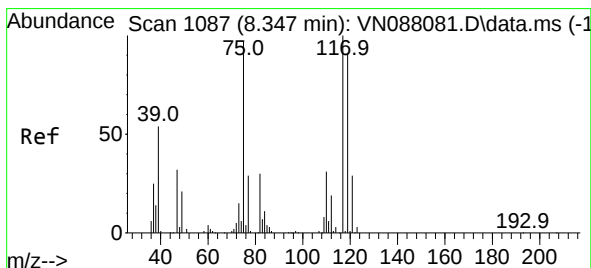
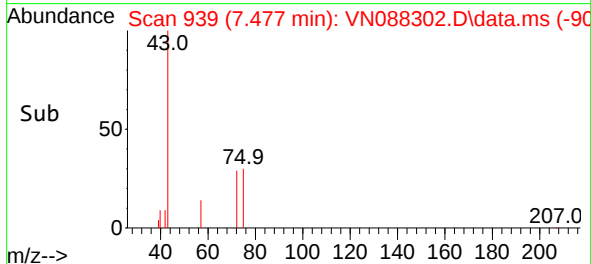
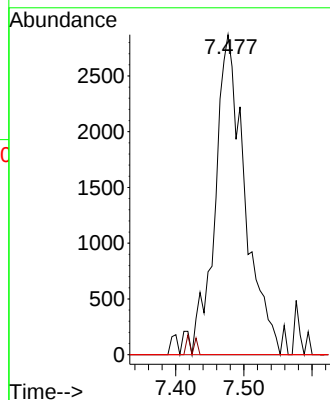
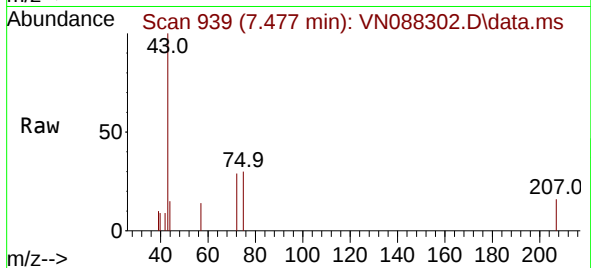
Tgt Ion: 43 Resp: 8840

Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 0.0 7.0 10.6#



#38

Carbon Tetrachloride

Concen: 5.100 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.135 min

Lab File: VN088302.D

Acq: 17 Nov 2025 14:21

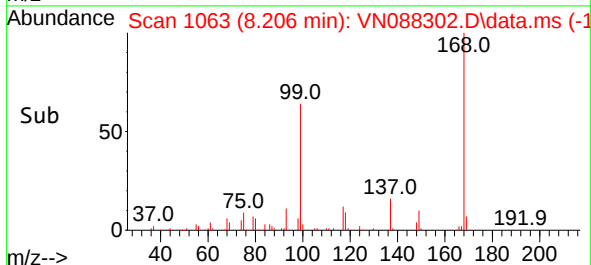
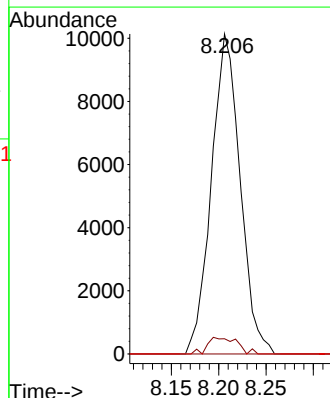
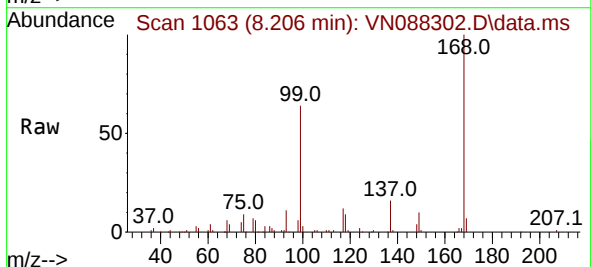
Tgt Ion: 117 Resp: 21398

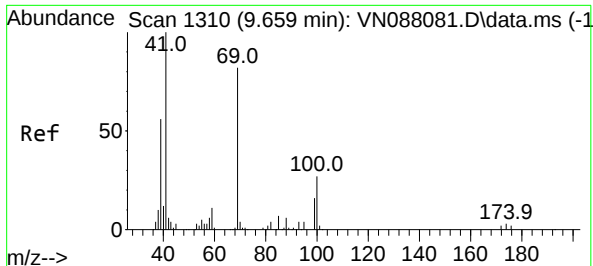
Ion Ratio Lower Upper

117 100

119 4.7 79.0 118.6#

121 0.0 25.0 37.6#

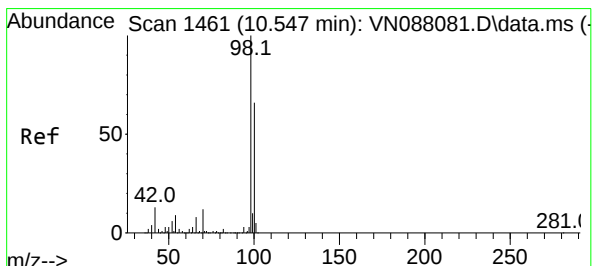
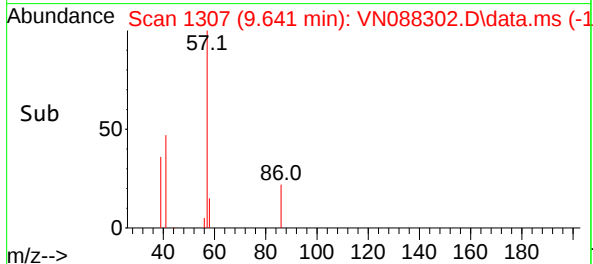
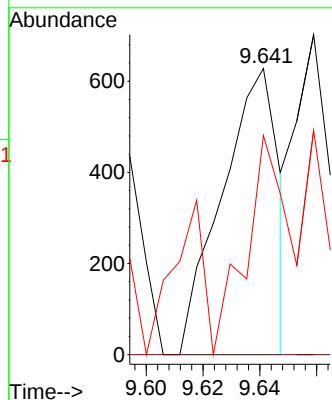
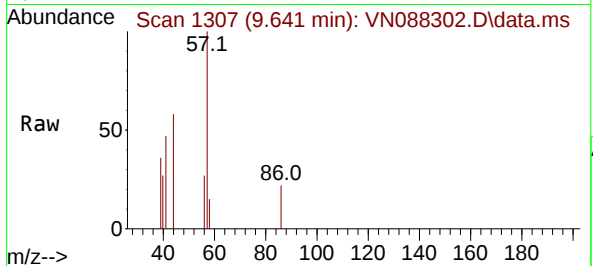




#48
Methyl methacrylate
Concen: 0.235 ug/l
RT: 9.641 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

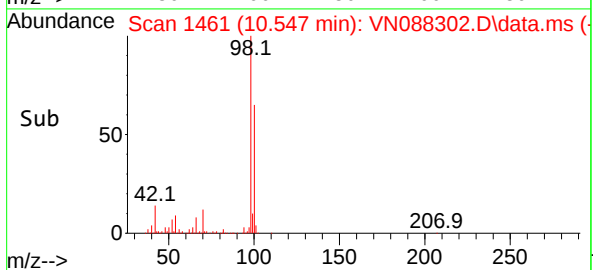
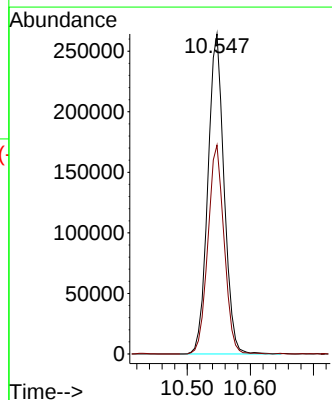
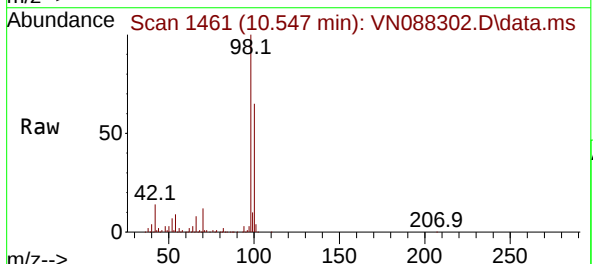
Instrument :
MSVOA_N
ClientSampleId :
VNJ-212

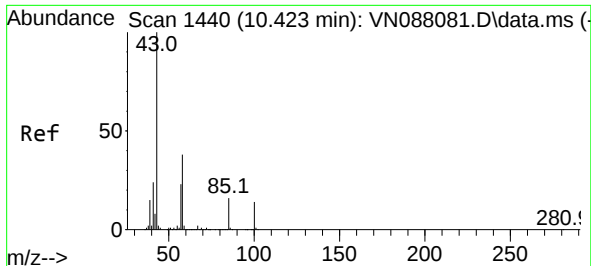
Tgt Ion: 41 Resp: 874
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 56.4 52.9 79.3



#50
Toluene-d8
Concen: 43.837 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

Tgt Ion: 98 Resp: 469946
Ion Ratio Lower Upper
98 100
100 65.3 52.8 79.2

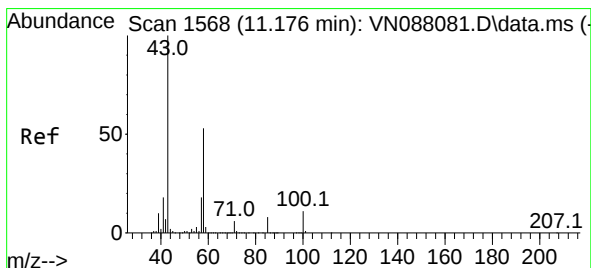
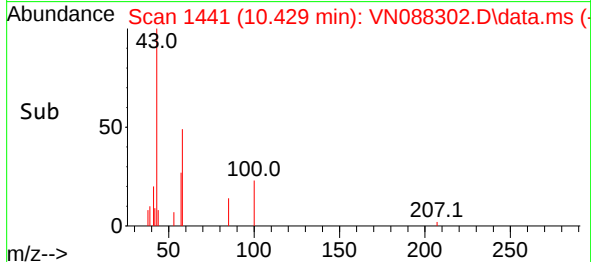
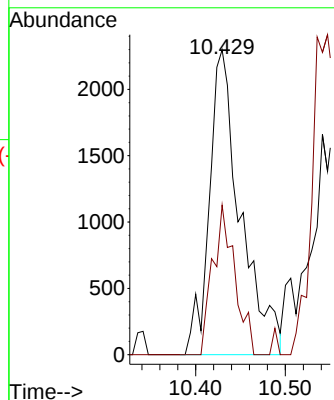
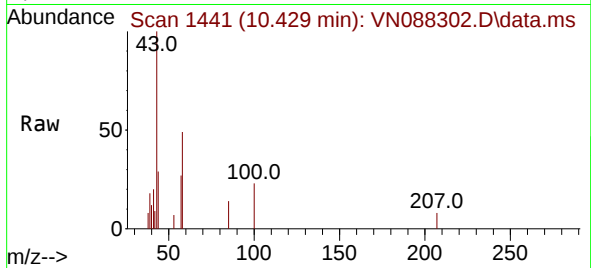




#51
4-Methyl-2-Pentanone
Concen: 1.168 ug/l
RT: 10.429 min Scan# 1440
Delta R.T. 0.006 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

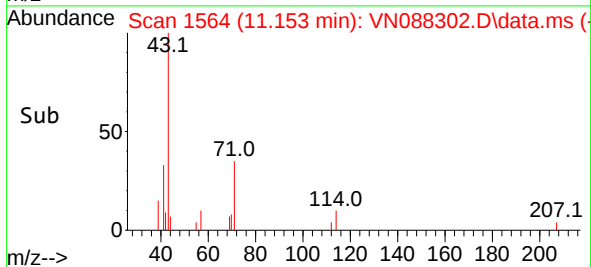
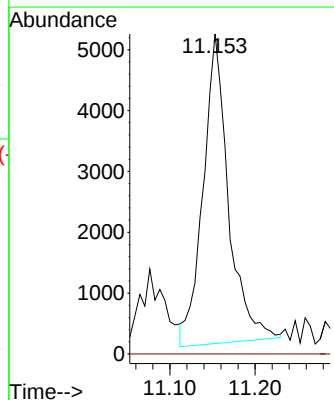
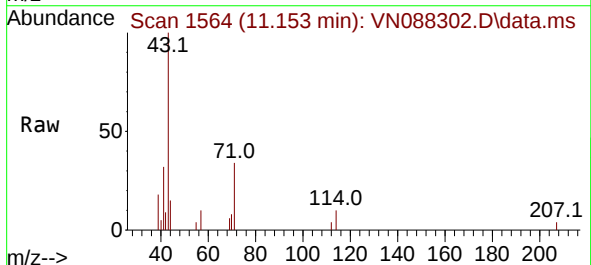
Instrument :
MSVOA_N
ClientSampleId :
VNJ-212

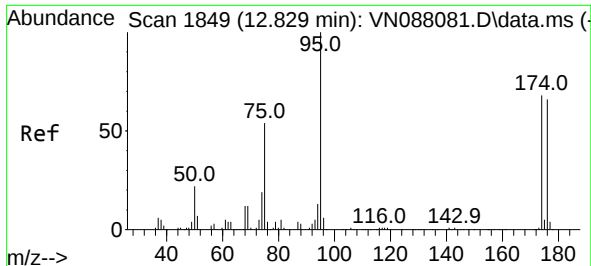
Tgt Ion: 43 Resp: 5566
Ion Ratio Lower Upper
43 100
58 34.6 29.6 44.4



#59
2-Hexanone
Concen: 3.320 ug/l
RT: 11.153 min Scan# 1564
Delta R.T. -0.024 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

Tgt Ion: 43 Resp: 10497
Ion Ratio Lower Upper
43 100
58 0.0 25.9 77.8#

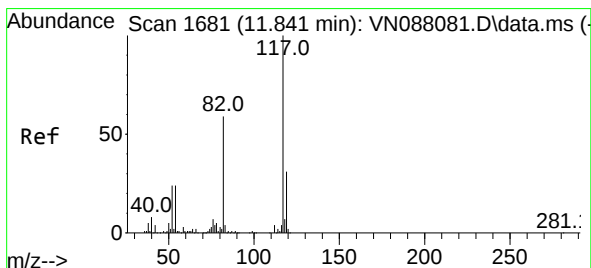
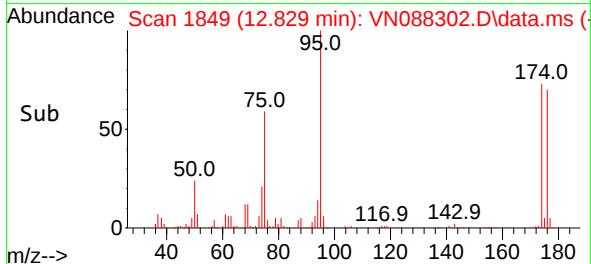
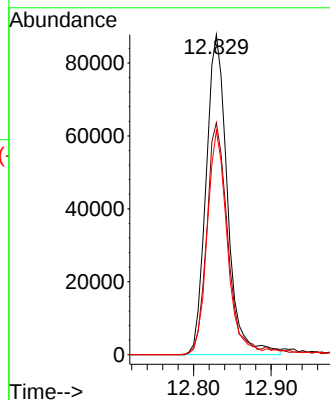
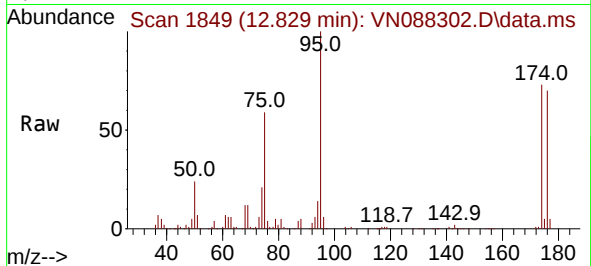




#62
4-Bromofluorobenzene
Concen: 44.270 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

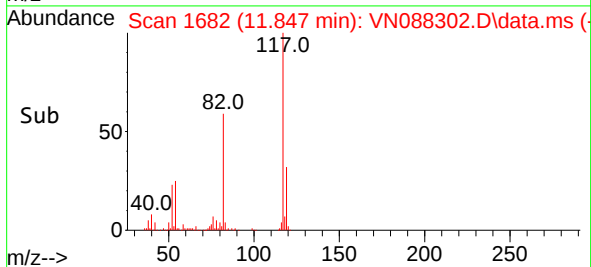
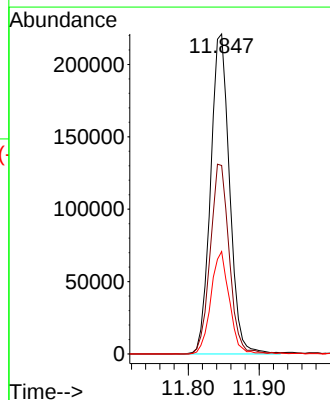
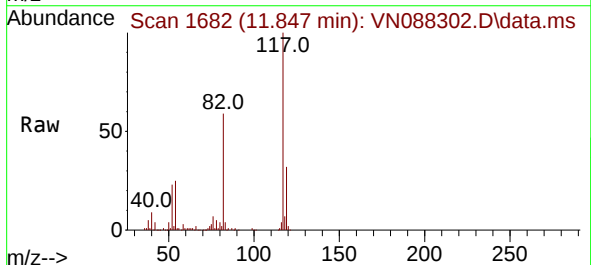
Instrument :
MSVOA_N
ClientSampleId :
VNJ-212

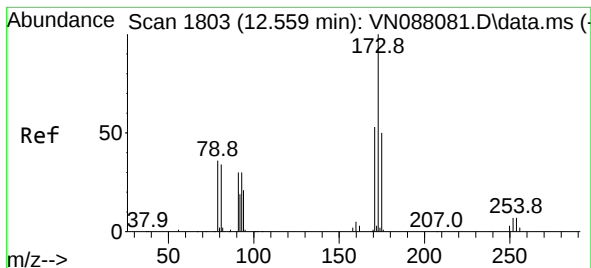
Tgt Ion: 95 Resp: 167605
Ion Ratio Lower Upper
95 100
174 70.8 0.0 138.4
176 66.1 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

Tgt Ion: 117 Resp: 410032
Ion Ratio Lower Upper
117 100
82 58.9 47.4 71.2
119 32.0 24.3 36.5





#71

Bromoform

Concen: 0.466 ug/l

RT: 12.823 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN088302.D

Acq: 17 Nov 2025 14:21

Instrument :

MSVOA_N

ClientSampleId :

VNJ-212

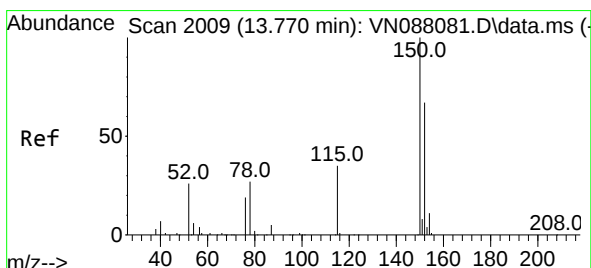
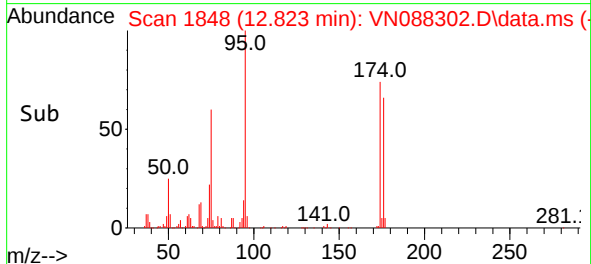
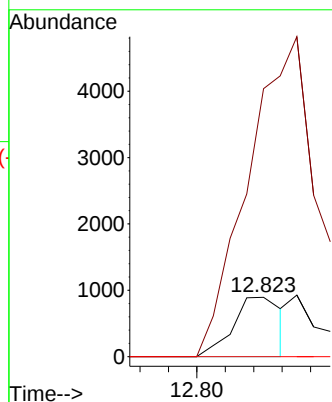
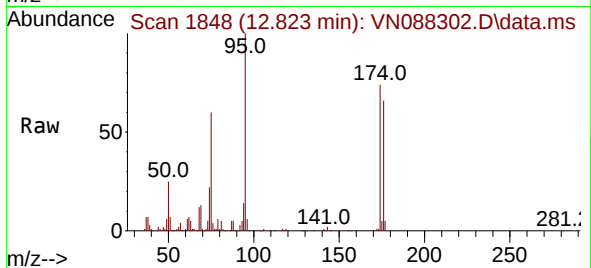
Tgt Ion:173 Resp: 1061

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.6#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.770 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088302.D

Acq: 17 Nov 2025 14:21

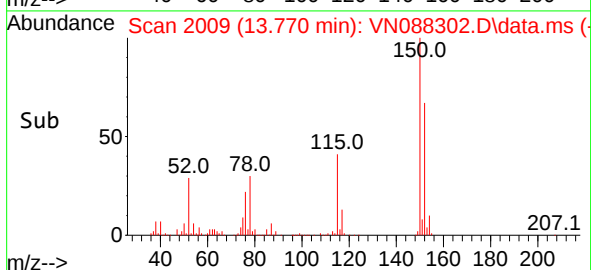
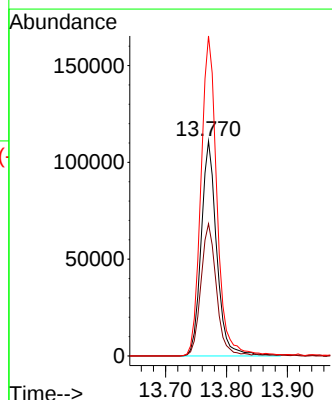
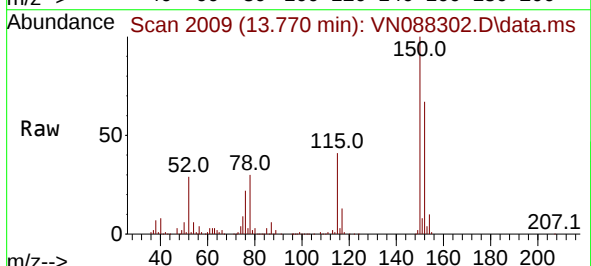
Tgt Ion:152 Resp: 197276

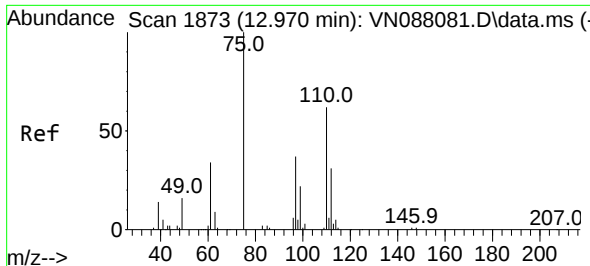
Ion Ratio Lower Upper

152 100

115 61.4 32.3 96.8

150 153.2 0.0 351.0

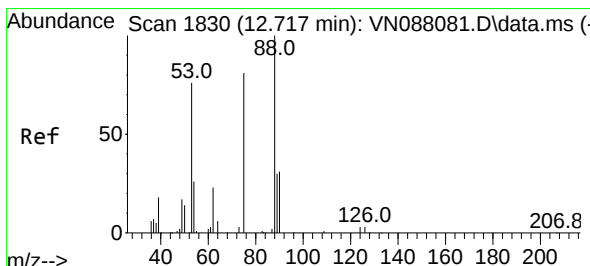
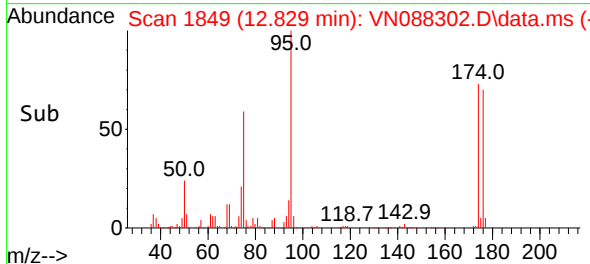
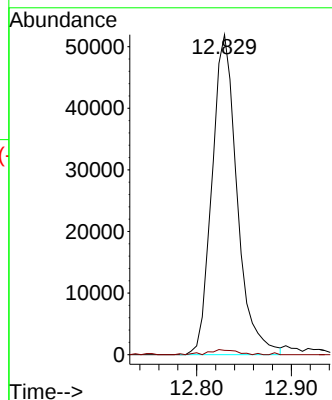
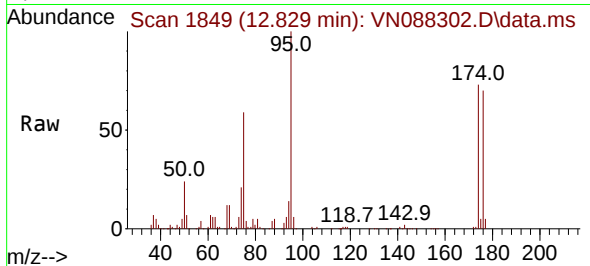




#76
1,2,3-Trichloropropane
Concen: 21.217 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.141 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

Instrument :
MSVOA_N
ClientSampleId :
VNJ-212

Tgt Ion: 75 Resp: 95695
Ion Ratio Lower Upper
75 100
77 1.8 89.1 267.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.185 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN088302.D
Acq: 17 Nov 2025 14:21

Tgt Ion: 75 Resp: 95695
Ion Ratio Lower Upper
75 100
53 0.2 101.8 152.6#
89 0.1 35.6 53.4#

