

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110625\
 Data File : VN088215.D
 Acq On : 06 Nov 2025 18:16
 Operator : JC\MD
 Sample : Q3560-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SY-12I

Quant Time: Nov 07 02:24:16 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	275832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.082	114	628960	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	619366	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	309131	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	298179	62.515	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	125.040%#
35) Dibromofluoromethane	8.153	113	220527	52.191	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	104.380%
50) Toluene-d8	10.541	98	816005	50.120	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.240%
62) 4-Bromofluorobenzene	12.829	95	324174	56.379	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	112.760%

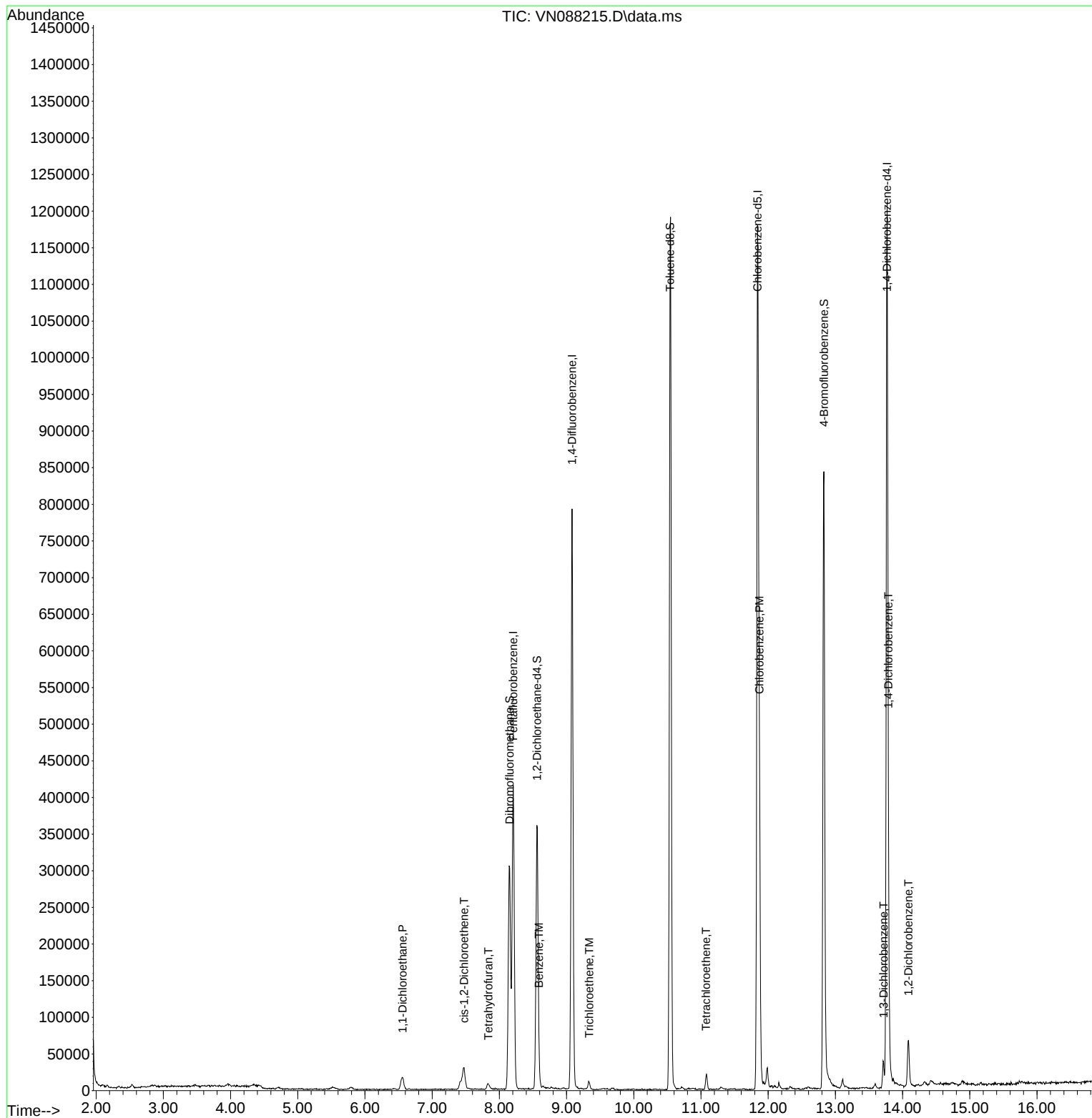
Target Compounds						Qvalue
24) 1,1-Dichloroethane	6.559	63	26395	3.729	ug/l	94
27) cis-1,2-Dichloroethene	7.477	96	18238	4.163	ug/l	86
29) Tetrahydrofuran	7.835	42	6918	3.362	ug/l #	80
40) Benzene	8.588	78	8401	0.447	ug/l #	78
44) Trichloroethene	9.335	130	3214	0.732	ug/l	91
64) Tetrachloroethene	11.076	164	4141	1.014	ug/l #	85
65) Chlorobenzene	11.870	112	196428	13.967	ug/l	95
87) 1,3-Dichlorobenzene	13.717	146	14671	1.429	ug/l	97
88) 1,4-Dichlorobenzene	13.788	146	56877	5.160	ug/l	91
91) 1,2-Dichlorobenzene	14.088	146	28346	2.865	ug/l	97

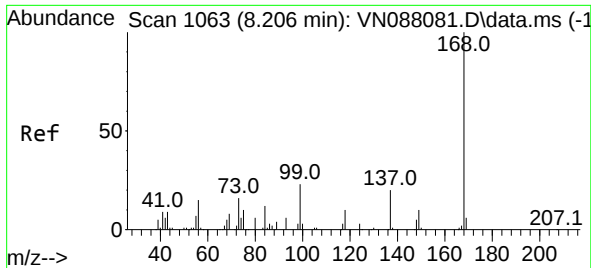
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 03 01:16:06 2025
Response via : Initial Calibration

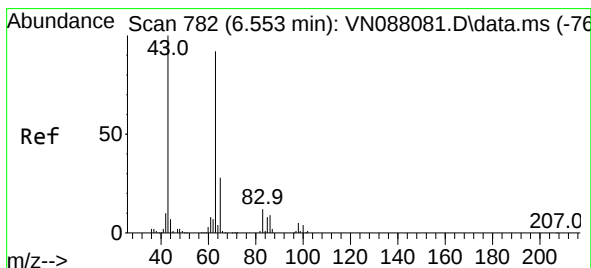
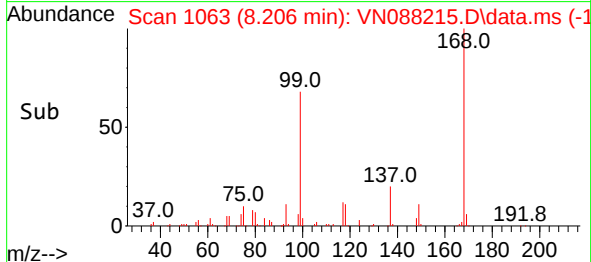
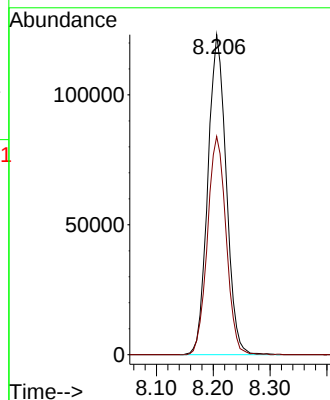
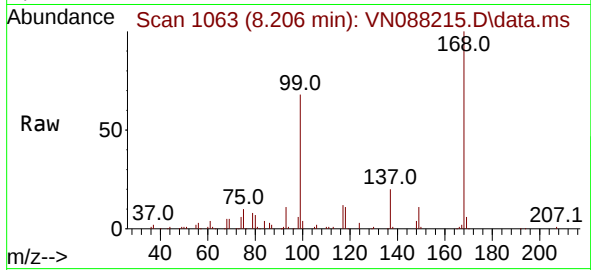




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.000 min
Lab File: VN088215.D
Acq: 06 Nov 2025 18:16

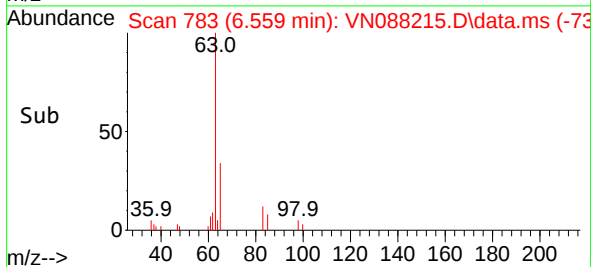
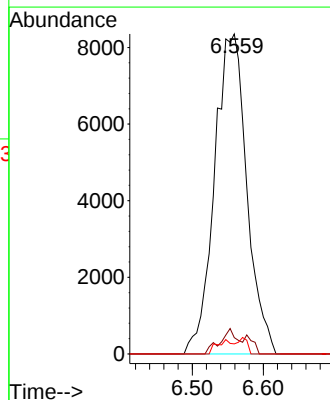
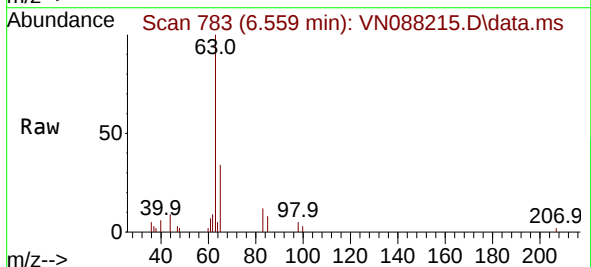
Instrument :
MSVOA_N
ClientSampleId :
SY-12I

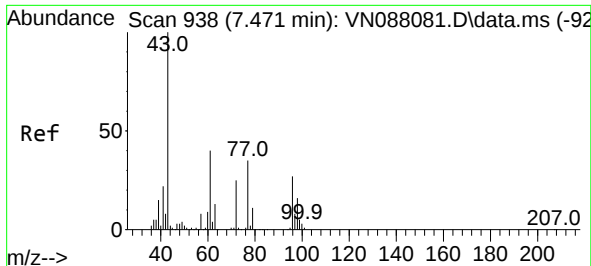
Tgt Ion:168 Resp: 275832
Ion Ratio Lower Upper
168 100
99 68.2 57.2 85.8



#24
1,1-Dichloroethane
Concen: 3.729 ug/l
RT: 6.559 min Scan# 783
Delta R.T. 0.012 min
Lab File: VN088215.D
Acq: 06 Nov 2025 18:16

Tgt Ion: 63 Resp: 26395
Ion Ratio Lower Upper
63 100
98 5.1 3.8 11.4
100 3.1 2.0 6.0



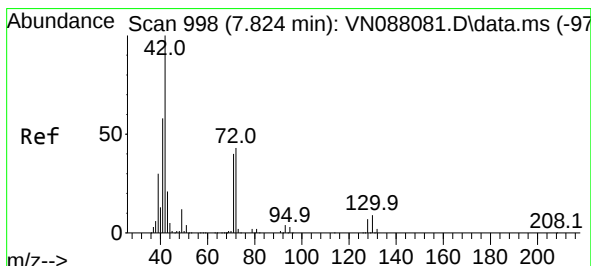
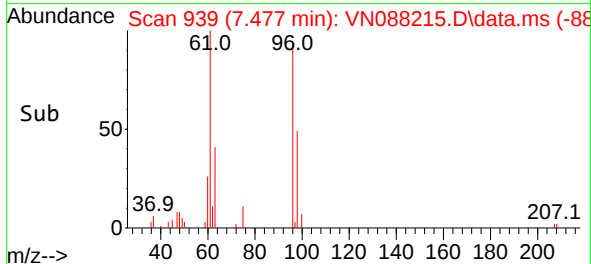
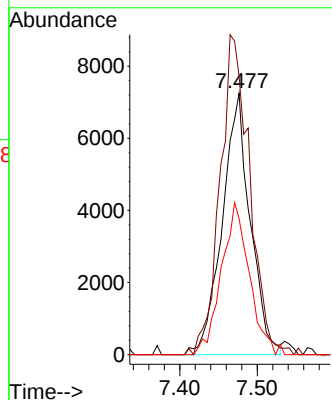
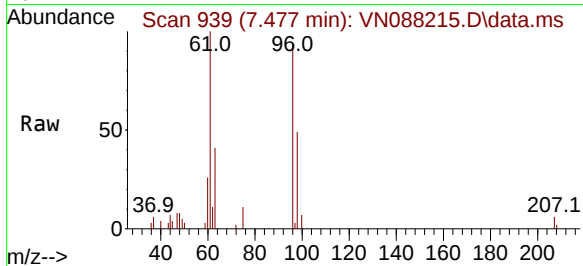


#27
 cis-1,2-Dichloroethene
 Concen: 4.163 ug/l
 RT: 7.477 min Scan# 91
 Delta R.T. 0.012 min
 Lab File: VN088215.D
 Acq: 06 Nov 2025 18:16

Instrument :
 MSVOA_N
 ClientSampleId :
 SY-12I

Tgt Ion: 96 Resp: 18238

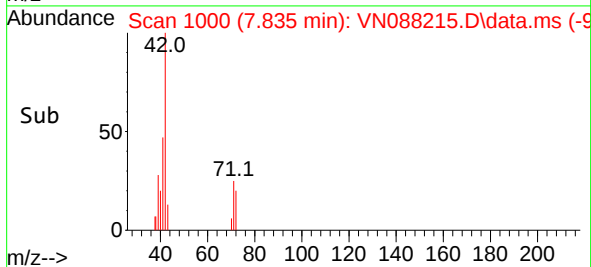
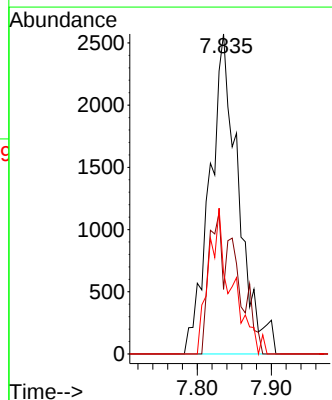
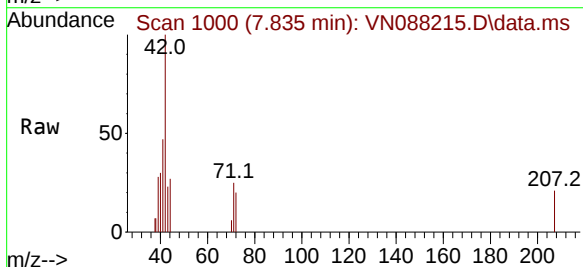
Ion	Ratio	Lower	Upper
96	100		
61	129.7	0.0	301.8
98	58.0	0.0	126.2

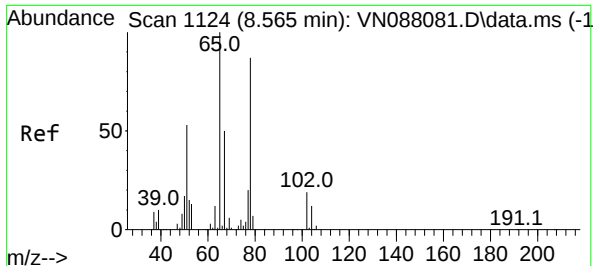


#29
 Tetrahydrofuran
 Concen: 3.362 ug/l
 RT: 7.835 min Scan# 1000
 Delta R.T. 0.012 min
 Lab File: VN088215.D
 Acq: 06 Nov 2025 18:16

Tgt Ion: 42 Resp: 6918

Ion	Ratio	Lower	Upper
42	100		
72	20.9	33.7	50.5#
71	36.6	31.9	47.9





#33

1,2-Dichloroethane-d4

Concen: 62.515 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN088215.D

Acq: 06 Nov 2025 18:16

Instrument :

MSVOA_N

ClientSampleId :

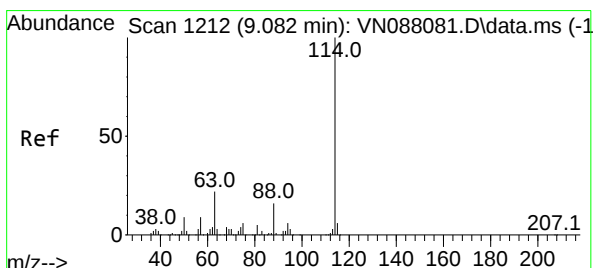
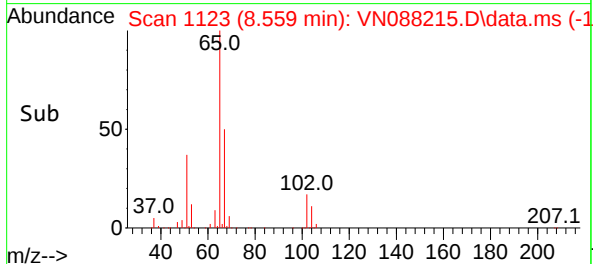
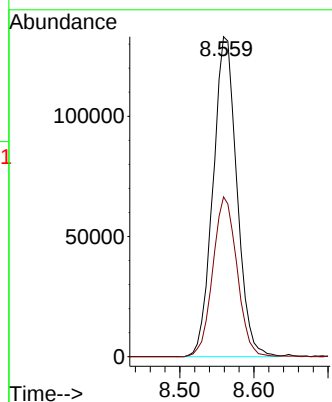
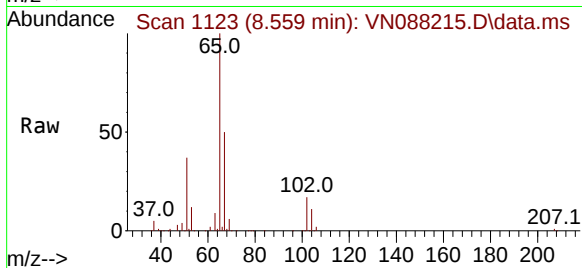
SY-12I

Tgt Ion: 65 Resp: 298179

Ion Ratio Lower Upper

65 100

67 50.7 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: VN088215.D

Acq: 06 Nov 2025 18:16

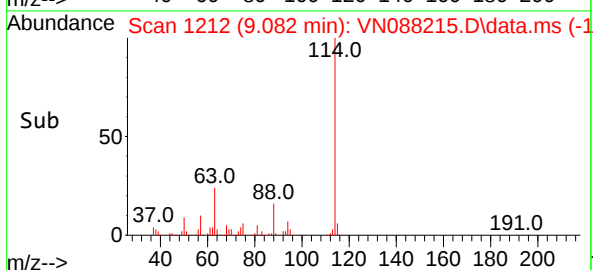
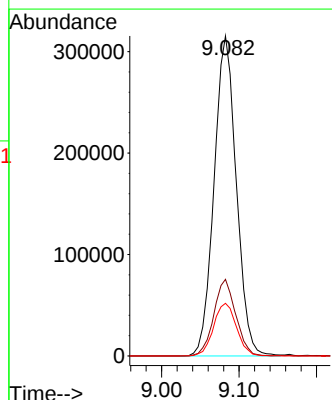
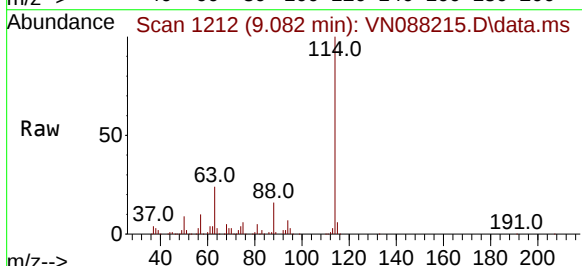
Tgt Ion: 114 Resp: 628960

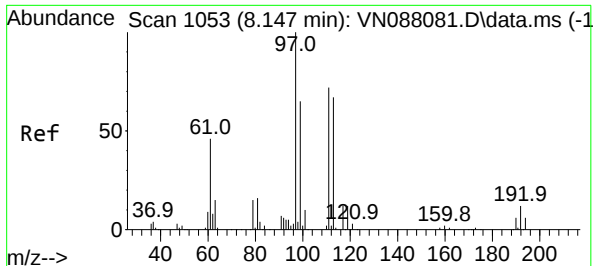
Ion Ratio Lower Upper

114 100

63 23.9 0.0 45.2

88 16.5 0.0 33.4





#35

Dibromofluoromethane

Concen: 52.191 ug/l

RT: 8.153 min Scan# 1105

Delta R.T. -0.000 min

Lab File: VN088215.D

Acq: 06 Nov 2025 18:16

Instrument :

MSVOA_N

ClientSampleId :

SY-12I

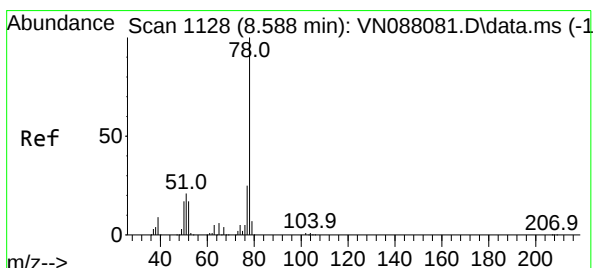
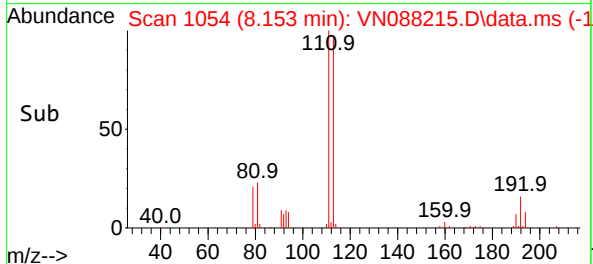
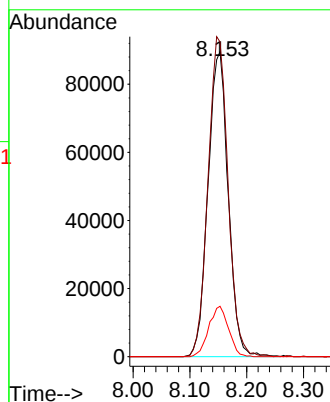
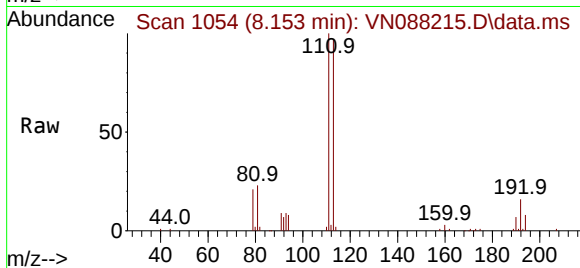
Tgt Ion:113 Resp: 220527

Ion Ratio Lower Upper

113 100

111 104.0 82.8 124.2

192 16.2 12.8 19.2



#40

Benzene

Concen: 0.447 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN088215.D

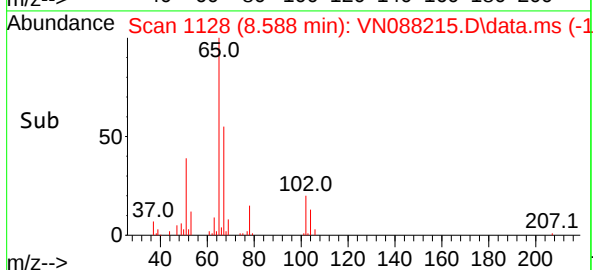
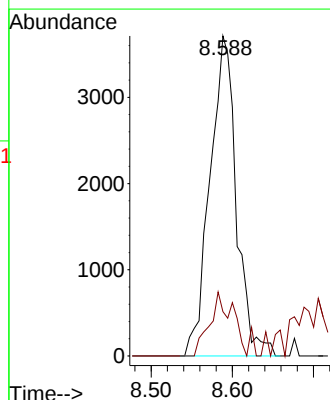
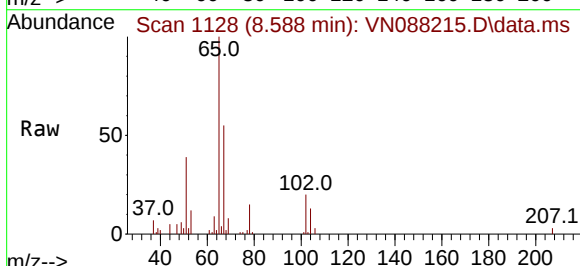
Acq: 06 Nov 2025 18:16

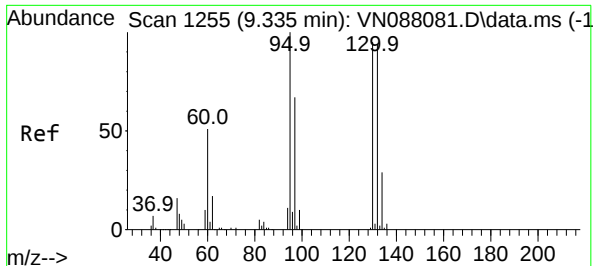
Tgt Ion: 78 Resp: 8401

Ion Ratio Lower Upper

78 100

77 13.9 19.7 29.5#

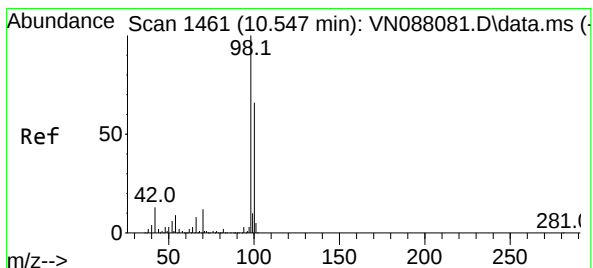
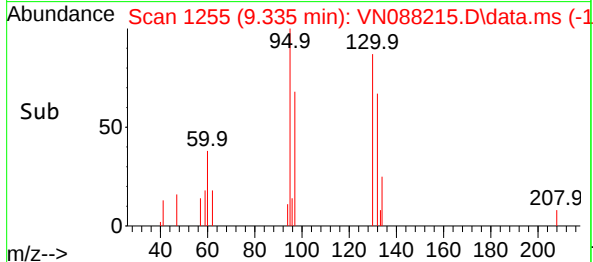
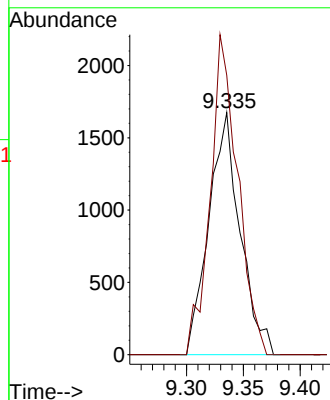
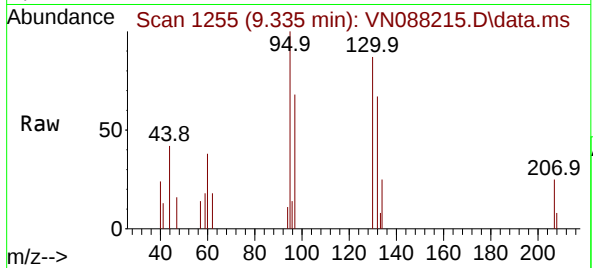




#44
Trichloroethene
Concen: 0.732 ug/l
RT: 9.335 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN088215.D
Acq: 06 Nov 2025 18:16

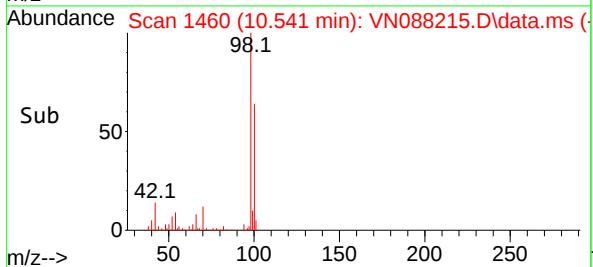
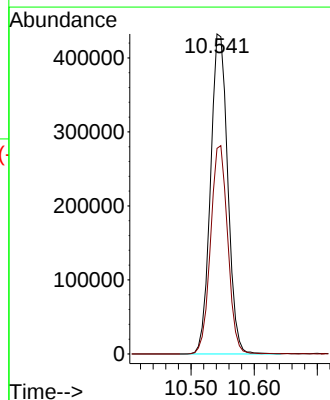
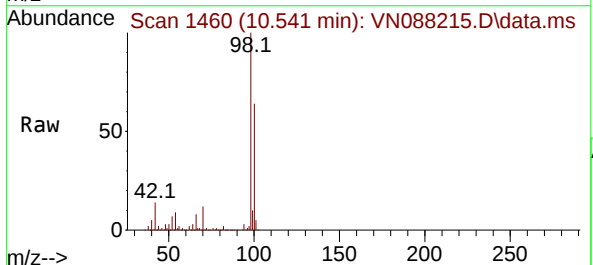
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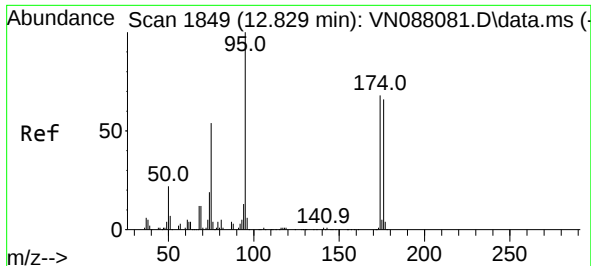
Tgt Ion:130 Resp: 3214
Ion Ratio Lower Upper
130 100
95 115.4 0.0 212.0



#50
Toluene-d8
Concen: 50.120 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088215.D
Acq: 06 Nov 2025 18:16

Tgt Ion: 98 Resp: 816005
Ion Ratio Lower Upper
98 100
100 64.9 52.8 79.2

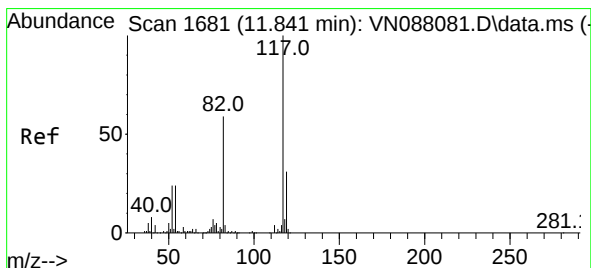
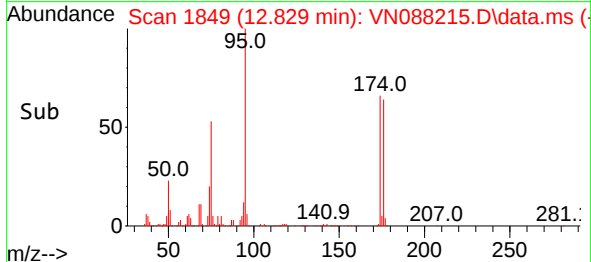
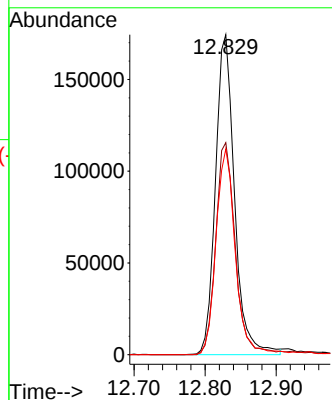
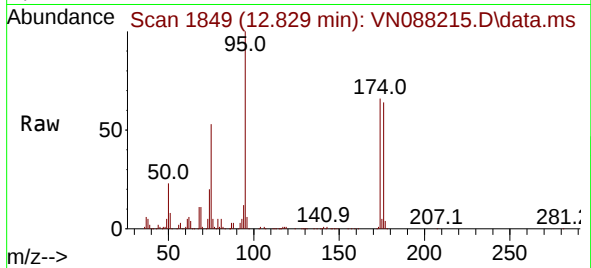




#62
4-Bromofluorobenzene
Concen: 56.379 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.006 min
Lab File: VN088215.D
Acq: 06 Nov 2025 18:16

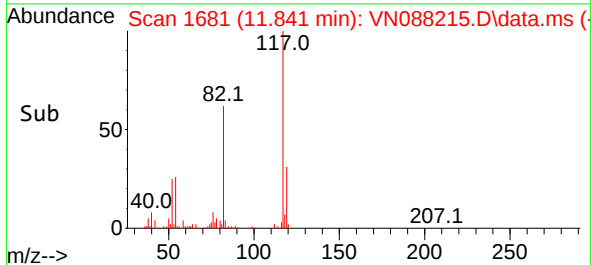
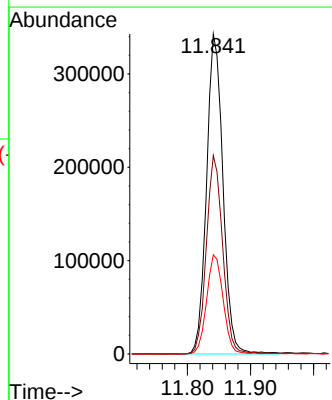
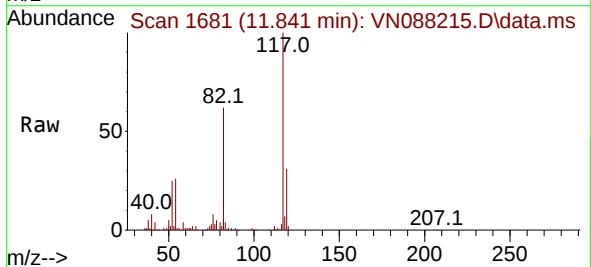
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SY-12I

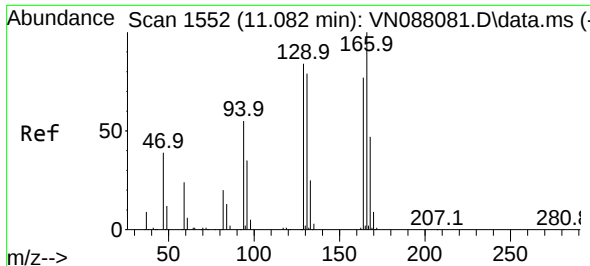
Tgt Ion: 95 Resp: 324174
Ion Ratio Lower Upper
95 100
174 67.9 0.0 138.4
176 65.5 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN088215.D
Acq: 06 Nov 2025 18:16

Tgt Ion: 117 Resp: 619366
Ion Ratio Lower Upper
117 100
82 62.0 47.4 71.2
119 31.0 24.3 36.5

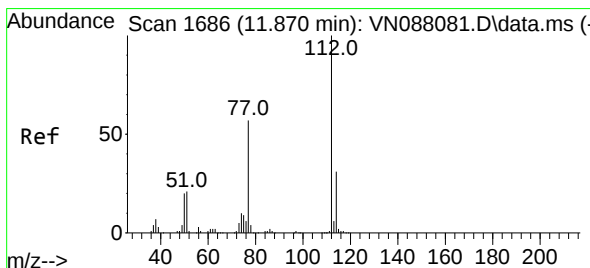
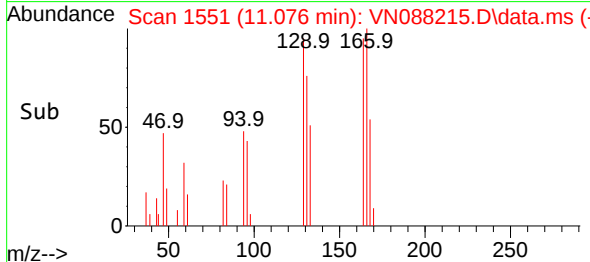
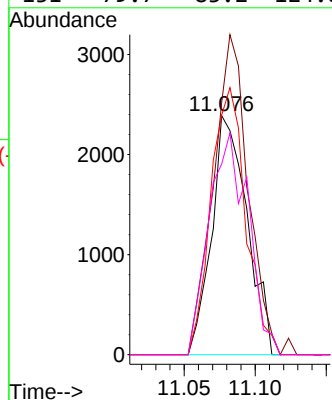
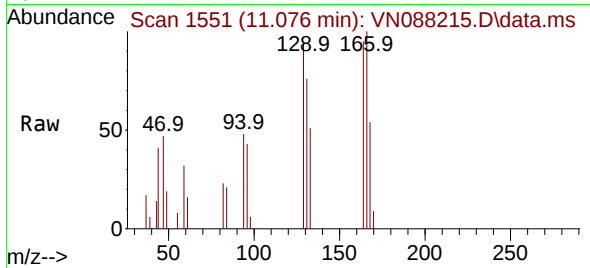




#64
Tetrachloroethene
Concen: 1.014 ug/l
RT: 11.076 min Scan# 1551
Delta R.T. -0.006 min
Lab File: VN088215.D
Acq: 06 Nov 2025 18:16

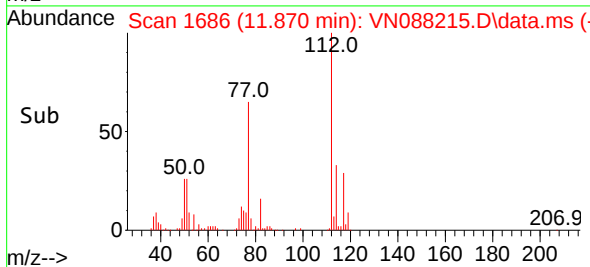
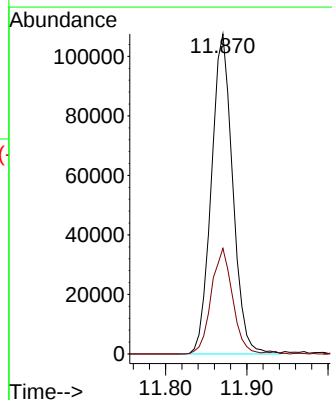
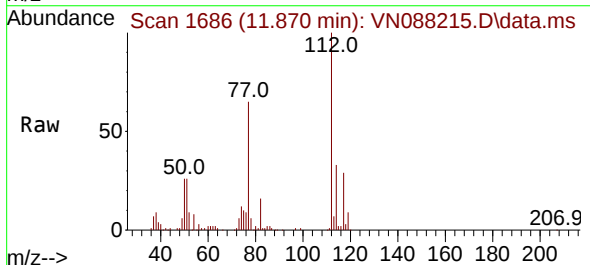
Instrument :
MSVOA_N
ClientSampleId :
SY-12I

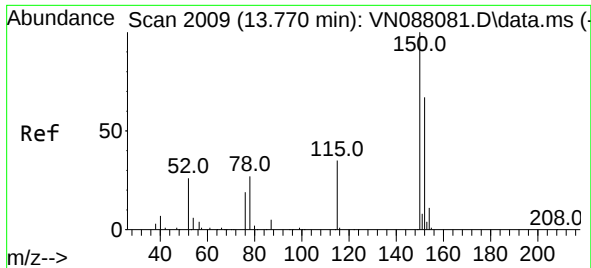
Tgt Ion:164 Resp: 4141
Ion Ratio Lower Upper
164 100
166 105.3 97.7 146.5
129 100.1 85.9 128.9
131 79.7 83.2 124.8#



#65
Chlorobenzene
Concen: 13.967 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN088215.D
Acq: 06 Nov 2025 18:16

Tgt Ion:112 Resp: 196428
Ion Ratio Lower Upper
112 100
114 33.0 24.3 36.5

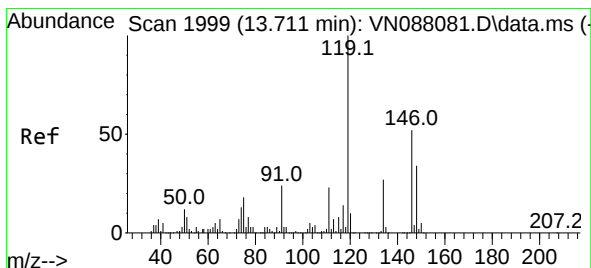
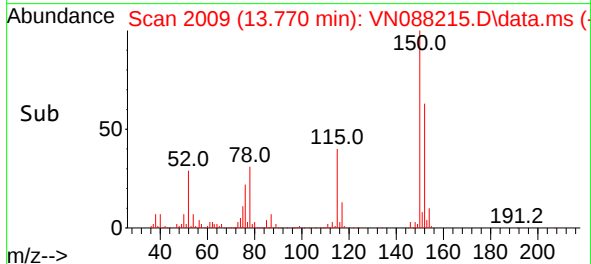
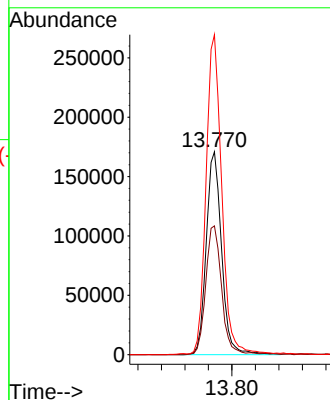
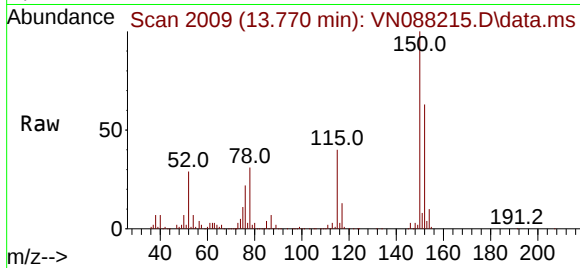




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.006 min
 Lab File: VN088215.D
 Acq: 06 Nov 2025 18:16

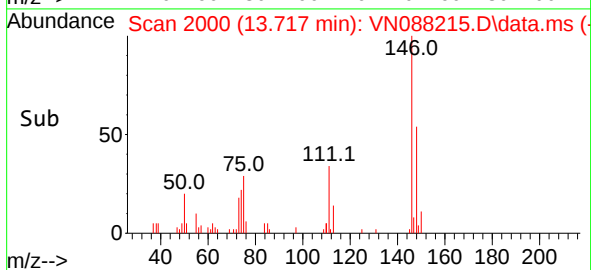
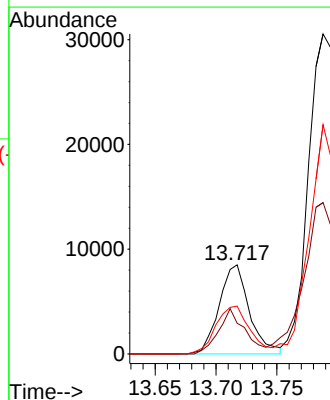
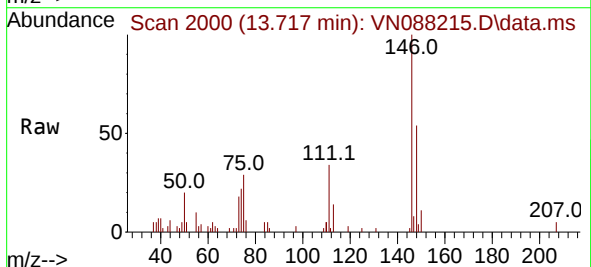
Instrument :
 MSVOA_N
 ClientSampleId :
 SY-12I

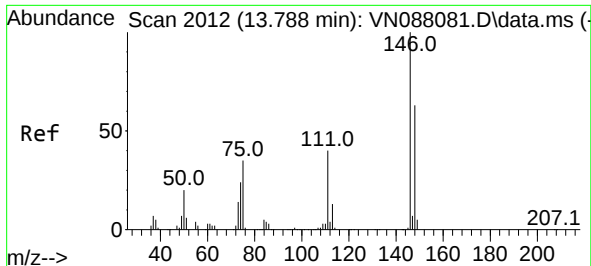
Tgt Ion:152 Resp: 309131
 Ion Ratio Lower Upper
 152 100
 115 65.9 32.3 96.8
 150 161.3 0.0 351.0



#87
 1,3-Dichlorobenzene
 Concen: 1.429 ug/l
 RT: 13.717 min Scan# 2000
 Delta R.T. 0.006 min
 Lab File: VN088215.D
 Acq: 06 Nov 2025 18:16

Tgt Ion:146 Resp: 14671
 Ion Ratio Lower Upper
 146 100
 111 44.4 22.1 66.5
 148 60.8 32.0 96.2

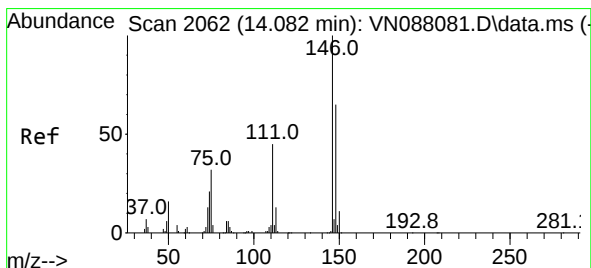
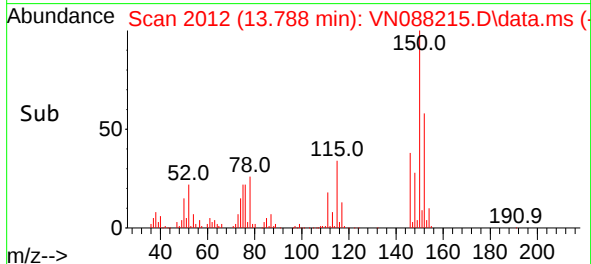
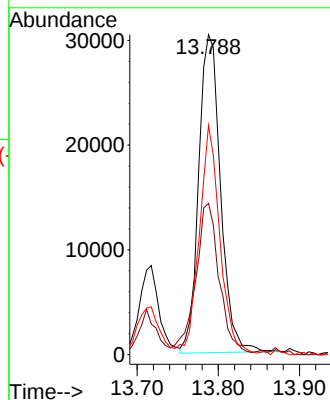
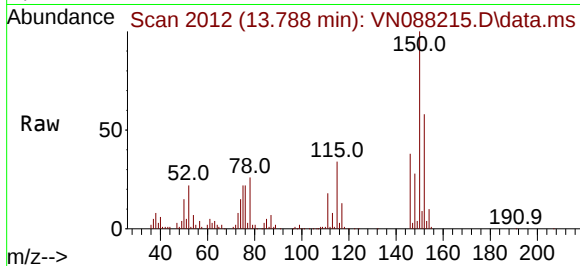




#88
1,4-Dichlorobenzene
Concen: 5.160 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN088215.D
Acq: 06 Nov 2025 18:16

Instrument :
MSVOA_N
ClientSampleId :
SY-12I

Tgt Ion:146 Resp: 56877
Ion Ratio Lower Upper
146 100
111 52.1 21.0 63.0
148 67.2 32.0 96.0



#91
1,2-Dichlorobenzene
Concen: 2.865 ug/l
RT: 14.088 min Scan# 2063
Delta R.T. 0.006 min
Lab File: VN088215.D
Acq: 06 Nov 2025 18:16

Tgt Ion:146 Resp: 28346
Ion Ratio Lower Upper
146 100
111 48.6 22.6 67.8
148 64.7 31.9 95.9

