

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121324\
 Data File : VN085202.D
 Acq On : 13 Dec 2024 17:27
 Operator : JC\MD
 Sample : P5270-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 13 23:38:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 02:54:10 2024
 Response via : Initial Calibration

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

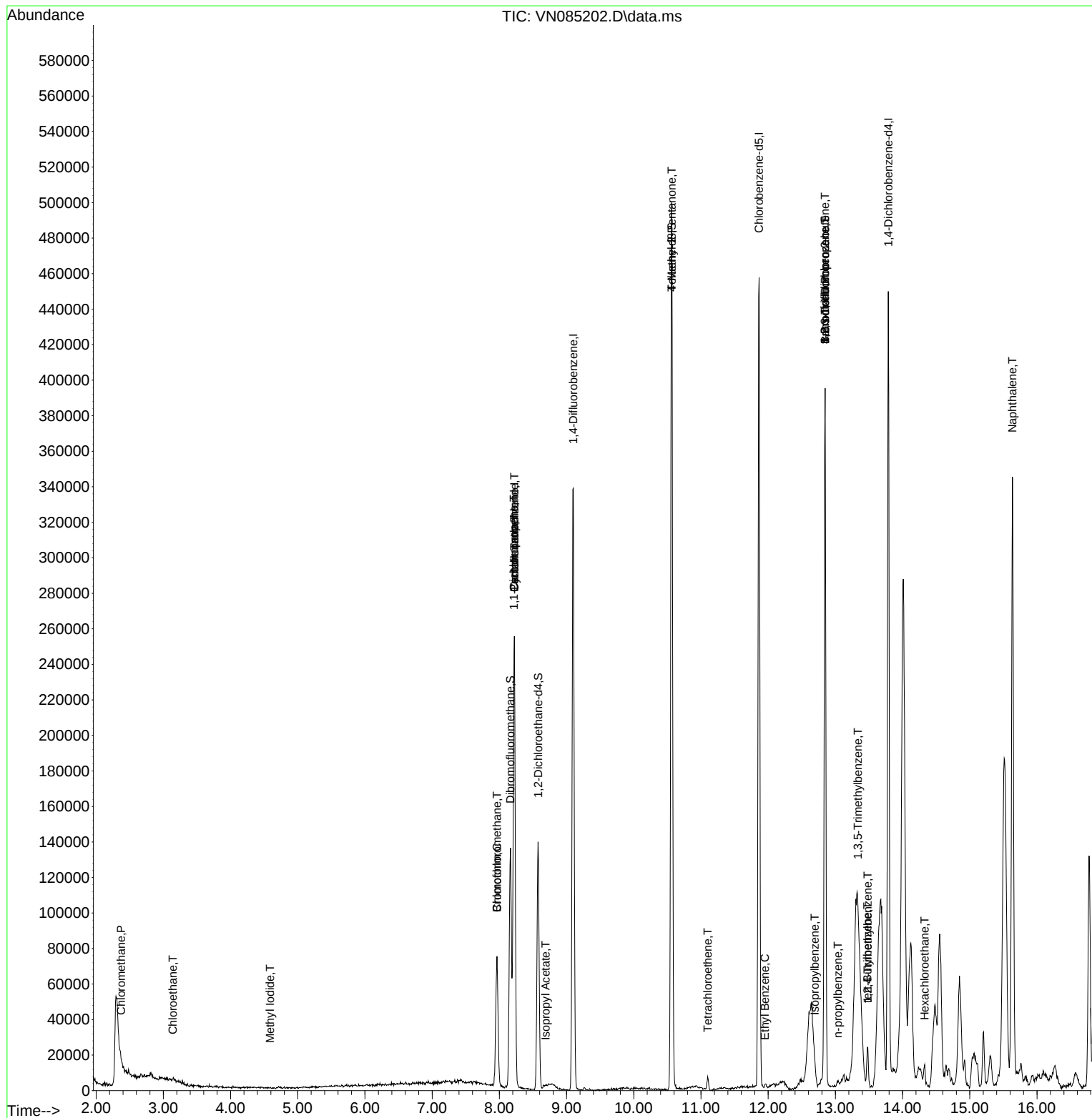
Internal Standards						
1) Pentafluorobenzene	8.224	168	182473	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	299687	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	268260	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	119455	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	116793	44.934	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	89.860%		
35) Dibromofluoromethane	8.165	113	97036	48.014	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.020%		
50) Toluene-d8	10.565	98	356975	49.287	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.580%		
62) 4-Bromofluorobenzene	12.847	95	137853	50.896	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	101.800%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.371	50	681	0.285	ug/l #	40
6) Chloroethane	3.142	64	1363	0.940	ug/l #	44
10) Methyl Iodide	4.589	142	1099	0.400	ug/l #	43
28) Bromochloromethane	7.965	49	5377	3.622	ug/l #	14
30) Chloroform	7.965	83	69185	16.539	ug/l	92
31) Cyclohexane	8.224	56	3884	1.122	ug/l #	12
36) 1,1-Dichloropropene	8.218	75	14720	5.377	ug/l #	51
38) Carbon Tetrachloride	8.224	117	19793	6.264	ug/l #	15
43) Isopropyl Acetate	8.688	43	3441	0.666	ug/l #	55
51) 4-Methyl-2-Pentanone	10.565	43	1545	0.654	ug/l #	1
64) Tetrachloroethene	11.100	164	1832	1.013	ug/l #	83
67) Ethyl Benzene	11.953	91	2146	0.217	ug/l #	81
71) Bromoform	12.847	173	532	0.335	ug/l #	1
73) Isopropylbenzene	12.694	105	1720	0.204	ug/l	94
76) 1,2,3-Trichloropropane	12.847	75	72357	33.301	ug/l #	1
78) n-propylbenzene	13.035	91	3009	0.310	ug/l	89
80) 1,3,5-Trimethylbenzene	13.335	105	3629	0.513	ug/l	79
81) trans-1,4-Dichloro-2-b...	12.847	75	72357	73.515	ug/l #	10
83) tert-Butylbenzene	13.476	119	1658	0.273	ug/l #	67
84) 1,2,4-Trimethylbenzene	13.482	105	12430	1.708	ug/l	98
90) Hexachloroethane	14.329	117	639	0.432	ug/l #	14
95) Naphthalene	15.635	128	321136	48.421	ug/l	99

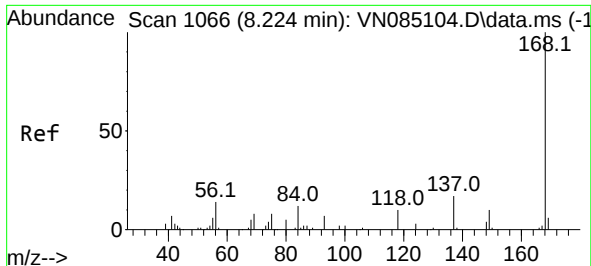
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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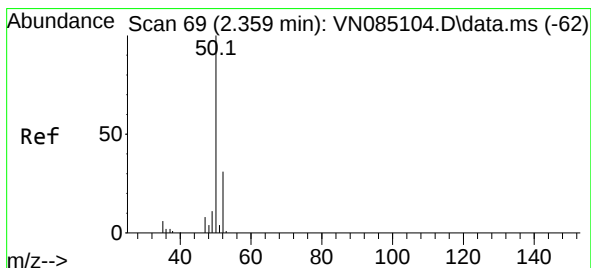
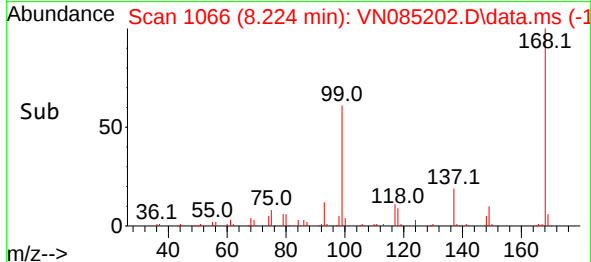
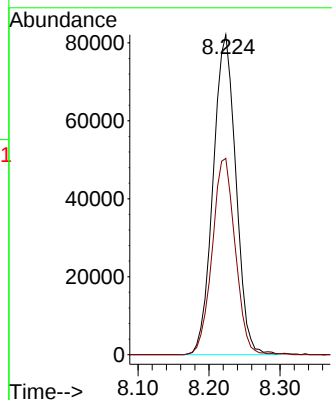
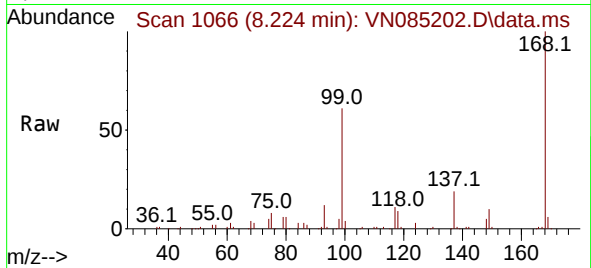




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

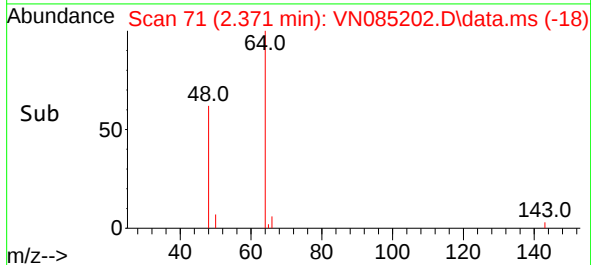
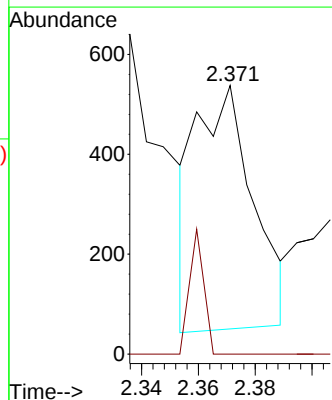
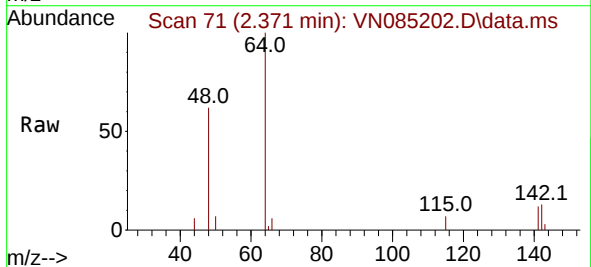
Instrument :
MSVOA_N
ClientSampleId :

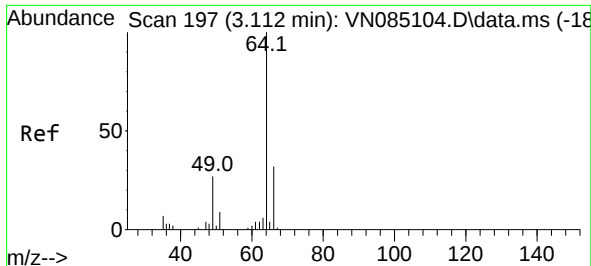
Tgt Ion:168 Resp: 182473
Ion Ratio Lower Upper
168 100
99 61.4 51.2 76.8



#3
Chloromethane
Concen: 0.285 ug/l
RT: 2.371 min Scan# 71
Delta R.T. 0.012 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

Tgt Ion: 50 Resp: 681
Ion Ratio Lower Upper
50 100
52 0.0 27.8 41.8#

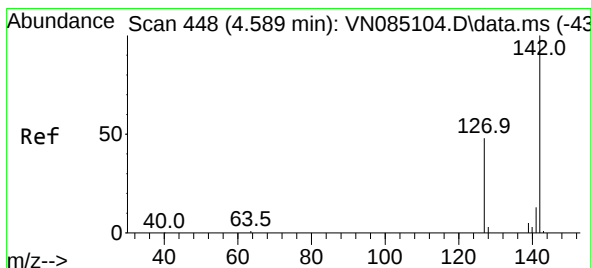
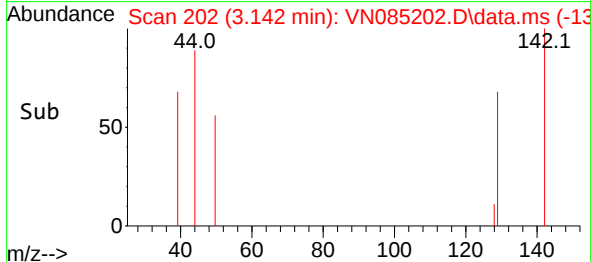
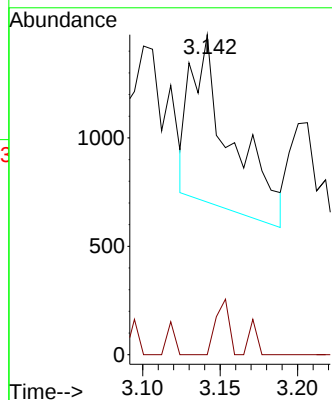
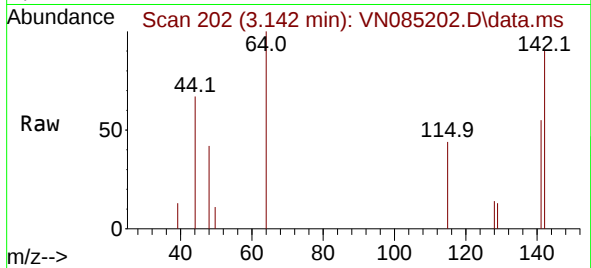




#6
Chloroethane
Concen: 0.940 ug/l
RT: 3.142 min Scan# 20
Delta R.T. 0.076 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

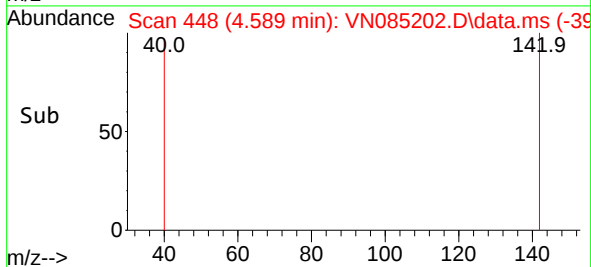
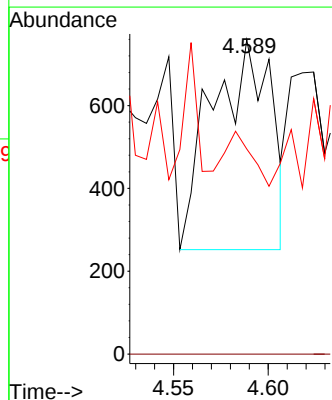
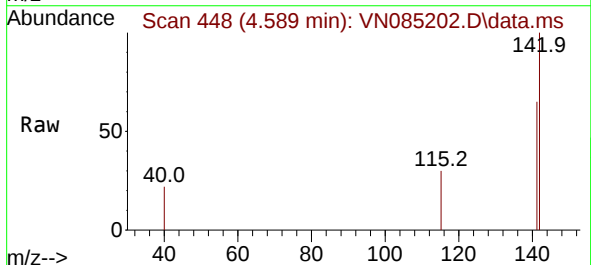
Instrument :
MSVOA_N
ClientSampleId :

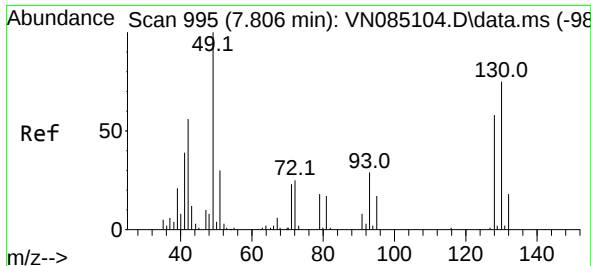
Tgt Ion: 64 Resp: 1363
Ion Ratio Lower Upper
64 100
66 0.0 24.4 36.6#



#10
Methyl Iodide
Concen: 0.400 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.018 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

Tgt Ion:142 Resp: 1099
Ion Ratio Lower Upper
142 100
127 0.0 36.6 54.8#
141 6.9 12.2 18.4#





#28

Bromochloromethane

Concen: 3.622 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.159 min

Lab File: VN085202.D

Acq: 13 Dec 2024 17:27

Instrument :

MSVOA_N

ClientSampleId :

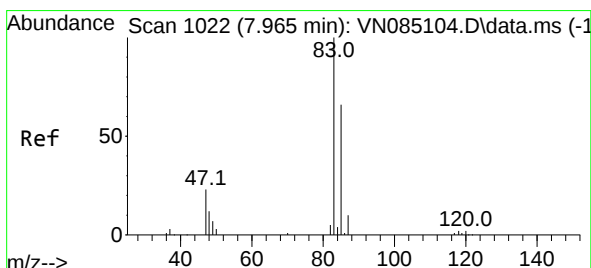
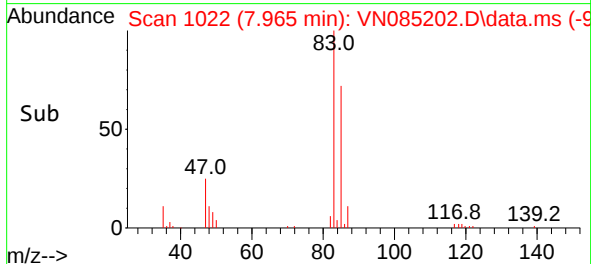
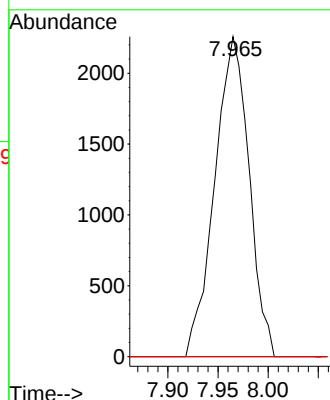
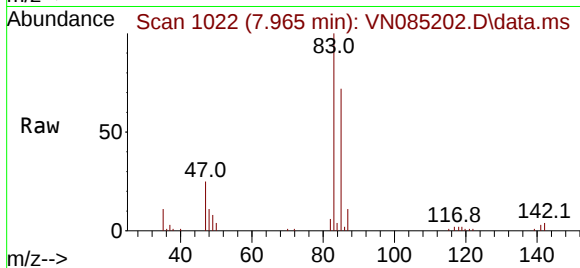
Tgt Ion: 49 Resp: 5377

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 0.0 60.6 90.8#



#30

Chloroform

Concen: 16.539 ug/l

RT: 7.965 min Scan# 1022

Delta R.T. 0.006 min

Lab File: VN085202.D

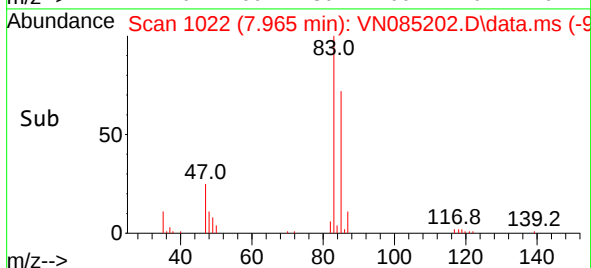
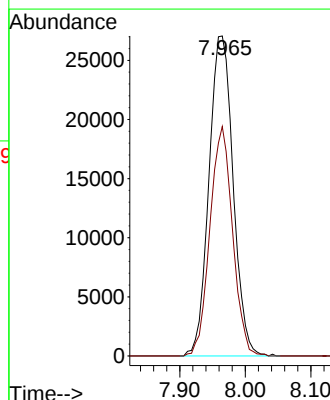
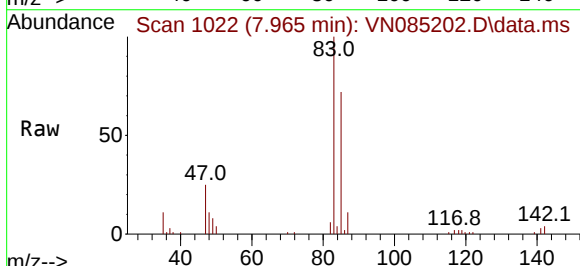
Acq: 13 Dec 2024 17:27

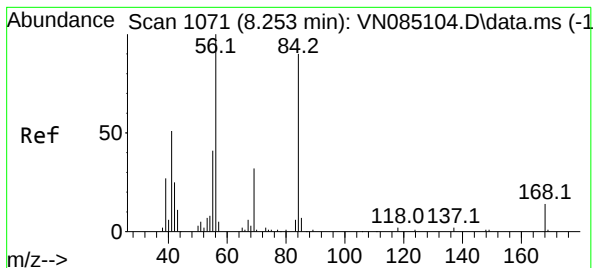
Tgt Ion: 83 Resp: 69185

Ion Ratio Lower Upper

83 100

85 71.7 52.6 78.8





#31

Cyclohexane

Concen: 1.122 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.030 min

Lab File: VN085202.D

Acq: 13 Dec 2024 17:27

Instrument :

MSVOA_N

ClientSampleId :

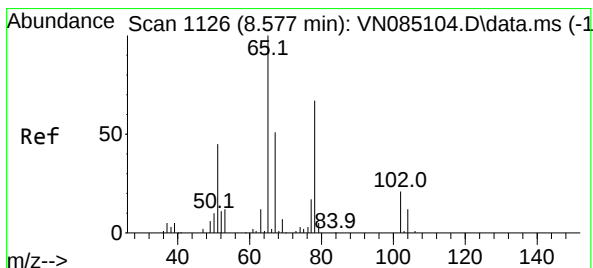
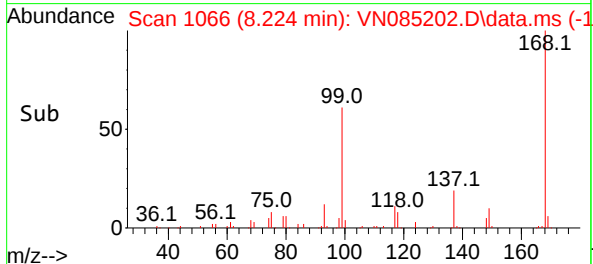
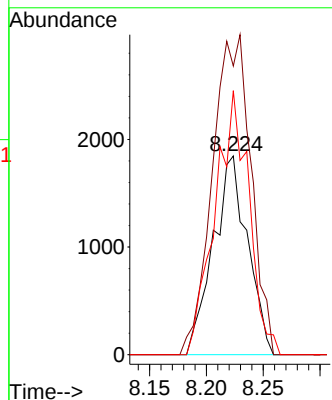
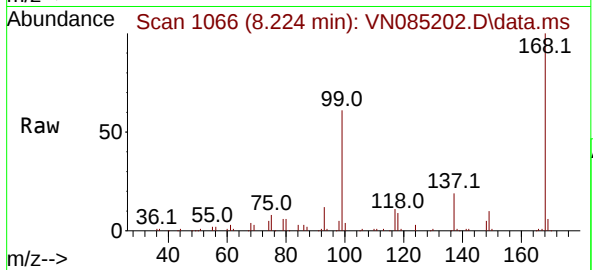
Tgt Ion: 56 Resp: 3884

Ion Ratio Lower Upper

56 100

69 145.2 24.6 36.8#

84 132.8 71.4 107.2#



#33

1,2-Dichloroethane-d4

Concen: 44.934 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.006 min

Lab File: VN085202.D

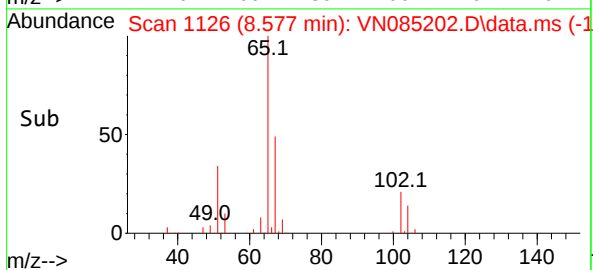
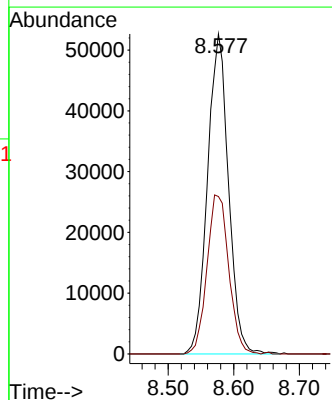
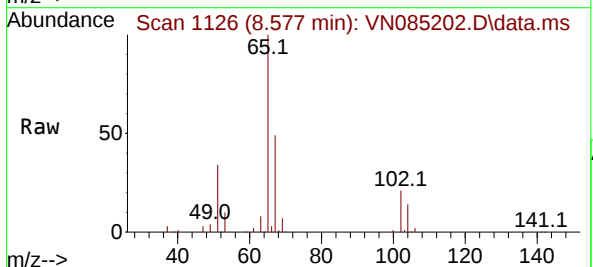
Acq: 13 Dec 2024 17:27

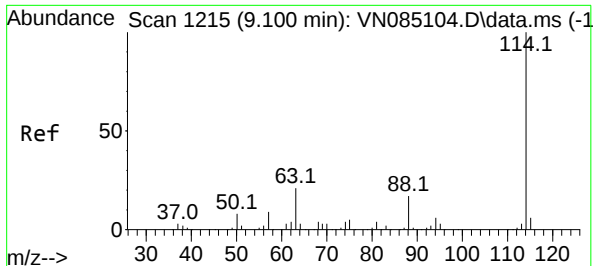
Tgt Ion: 65 Resp: 116793

Ion Ratio Lower Upper

65 100

67 51.7 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN085202.D

Acq: 13 Dec 2024 17:27

Instrument :

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ClientSampleId :

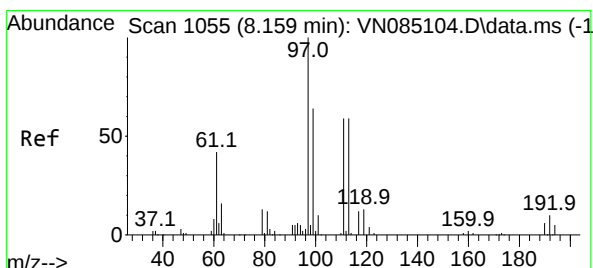
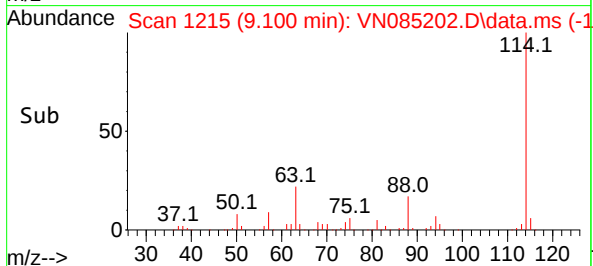
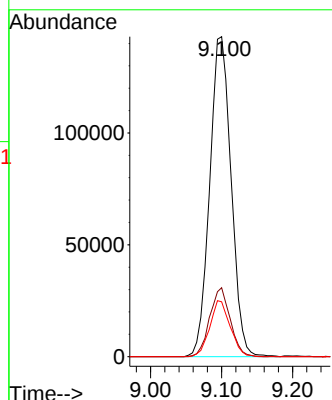
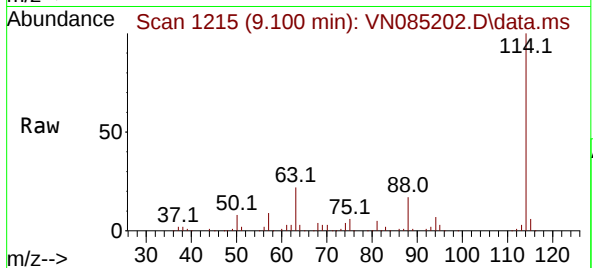
Tgt Ion:114 Resp: 299687

Ion Ratio Lower Upper

114 100

63 21.5 0.0 41.0

88 17.1 0.0 34.8



#35

Dibromofluoromethane

Concen: 48.014 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085202.D

Acq: 13 Dec 2024 17:27

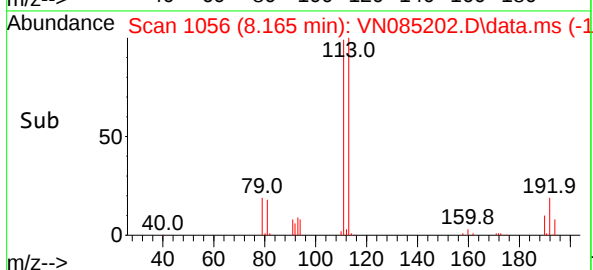
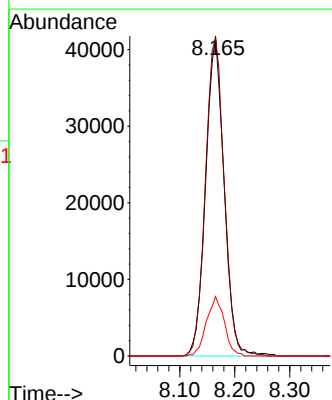
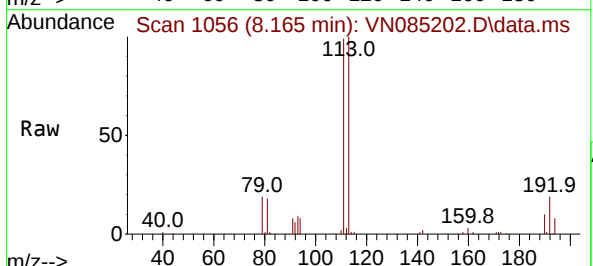
Tgt Ion:113 Resp: 97036

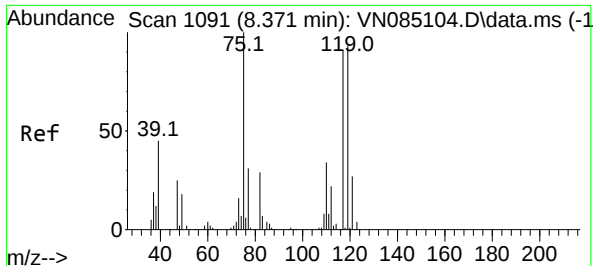
Ion Ratio Lower Upper

113 100

111 101.8 82.0 123.0

192 18.1 14.8 22.2





#36

1,1-Dichloropropene

Concen: 5.377 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085202.D

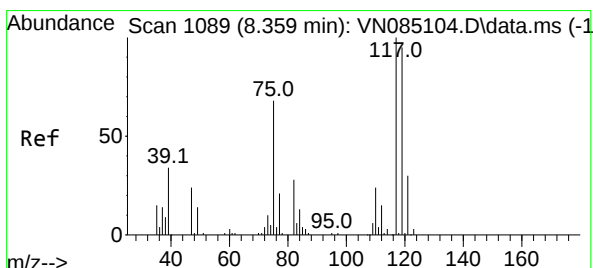
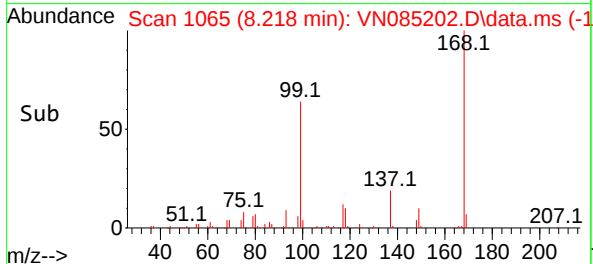
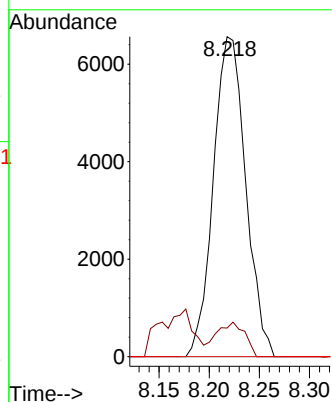
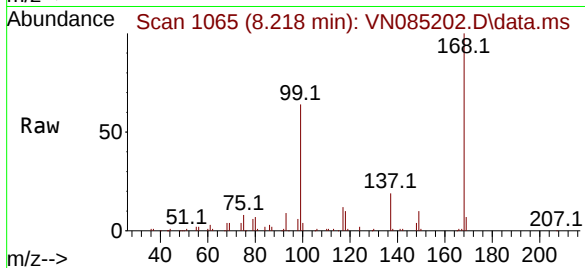
Acq: 13 Dec 2024 17:27

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	75	Resp:	14720
Ion Ratio	Lower	Upper	
75	100		
110	9.6	17.2	51.6#
77	0.0	24.2	36.4#



#38

Carbon Tetrachloride

Concen: 6.264 ug/l

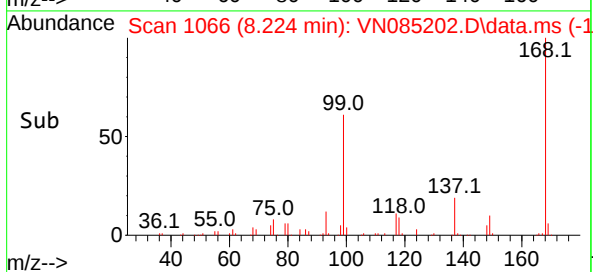
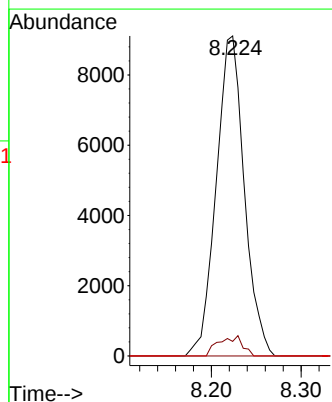
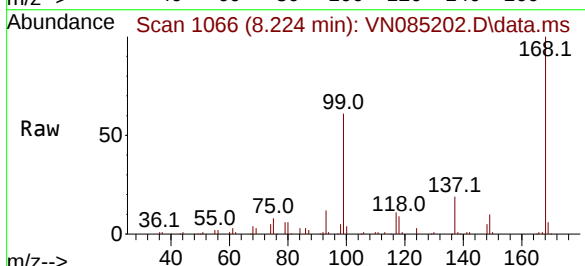
RT: 8.224 min Scan# 1066

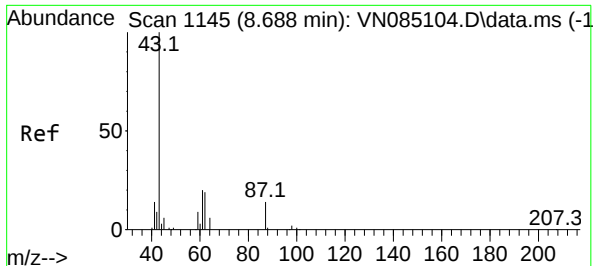
Delta R.T. -0.130 min

Lab File: VN085202.D

Acq: 13 Dec 2024 17:27

Tgt Ion:	117	Resp:	19793
Ion Ratio	Lower	Upper	
117	100		
119	4.6	78.6	117.8#
121	0.0	24.2	36.2#





#43

Isopropyl Acetate

Concen: 0.666 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

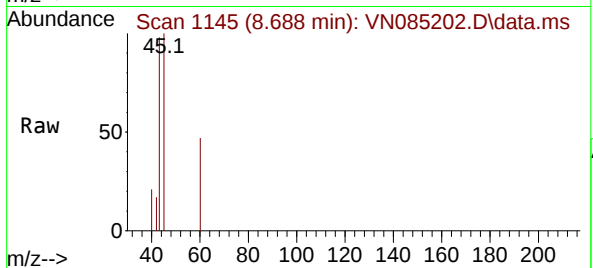
Lab File: VN085202.D

Acq: 13 Dec 2024 17:27

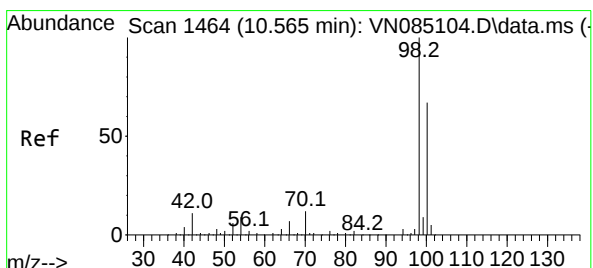
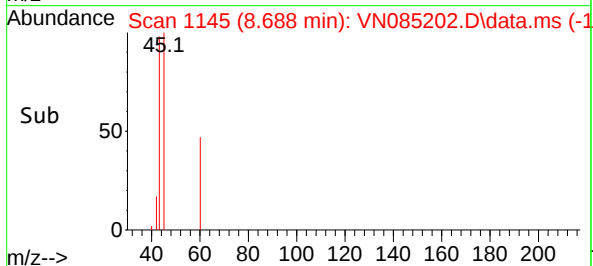
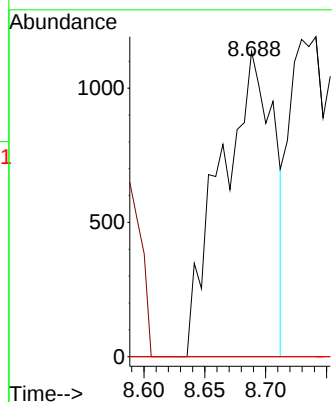
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	3441
Ion	Ratio	Lower	Upper
43	100		
61	0.0	20.6	30.8#
87	0.0	11.0	16.4#



#50

Toluene-d8

Concen: 49.287 ug/l

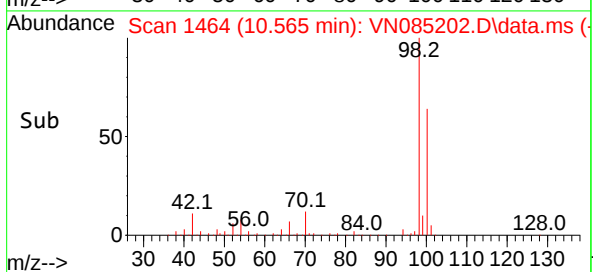
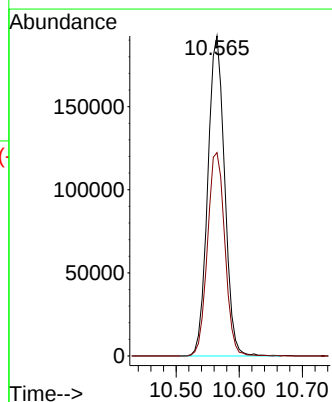
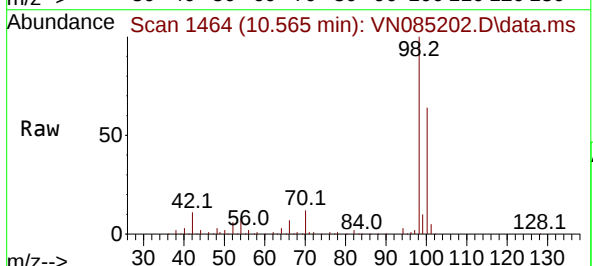
RT: 10.565 min Scan# 1464

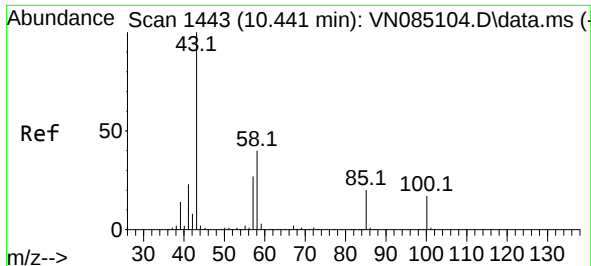
Delta R.T. -0.000 min

Lab File: VN085202.D

Acq: 13 Dec 2024 17:27

Tgt Ion:	98	Resp:	356975
Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.5	78.7

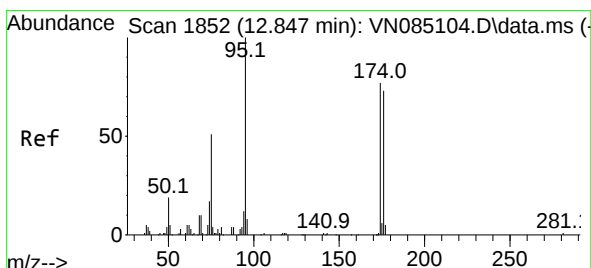
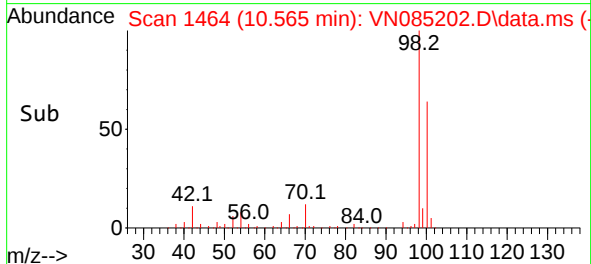
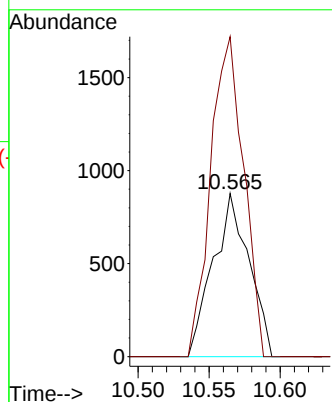
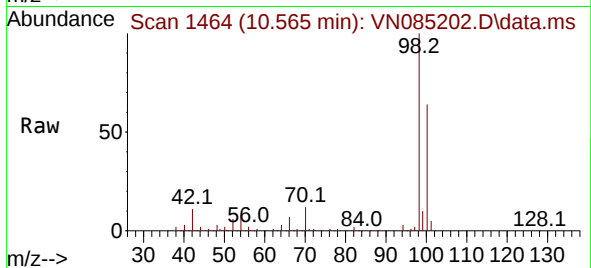




#51
4-Methyl-2-Pentanone
Concen: 0.654 ug/l
RT: 10.565 min Scan# 1443
Delta R.T. 0.123 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

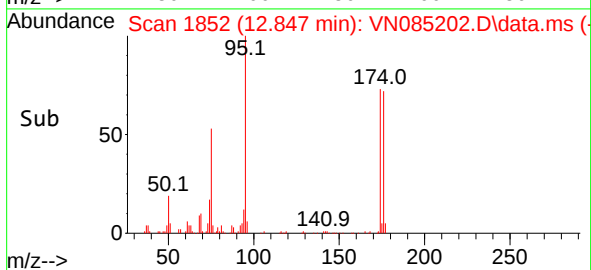
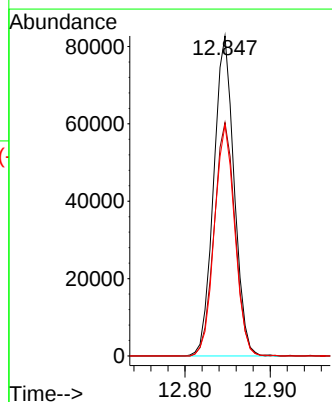
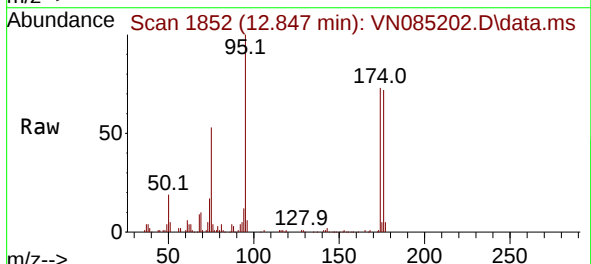
Instrument :
MSVOA_N
ClientSampleId :

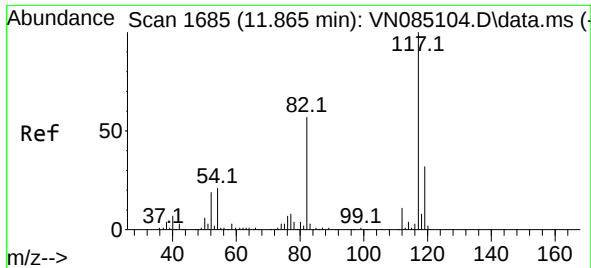
Tgt Ion: 43 Resp: 1545
Ion Ratio Lower Upper
43 100
58 179.9 32.1 48.1#



#62
4-Bromofluorobenzene
Concen: 50.896 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

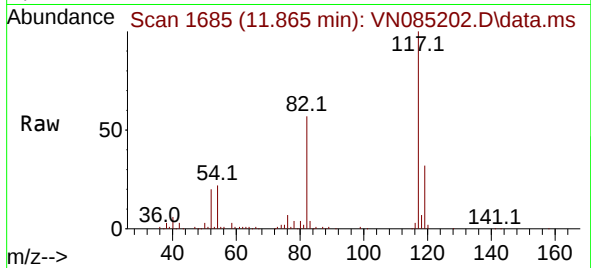
Tgt Ion: 95 Resp: 137853
Ion Ratio Lower Upper
95 100
174 74.4 0.0 146.6
176 71.7 0.0 141.8



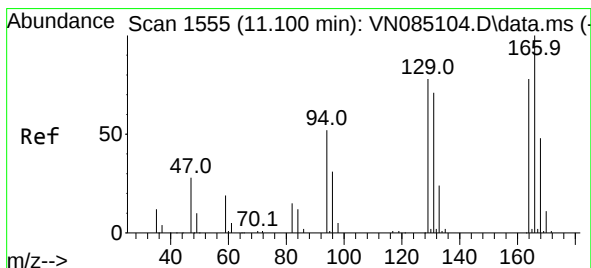
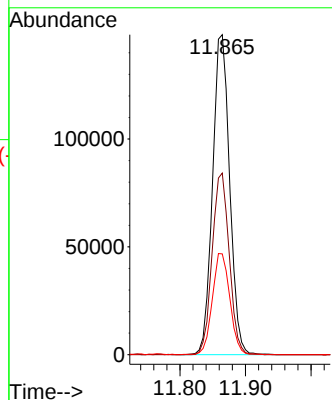
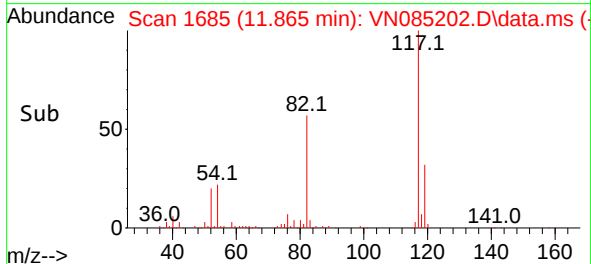


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.006 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

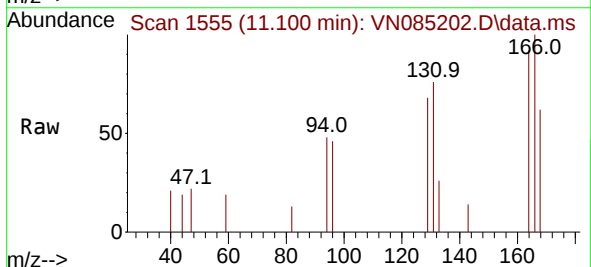
Instrument :
MSVOA_N
ClientSampleId :



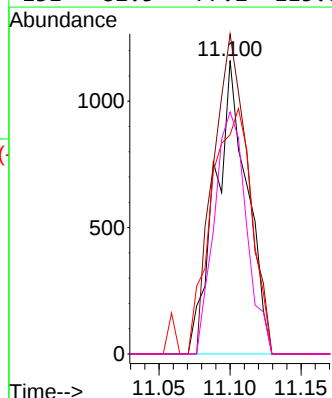
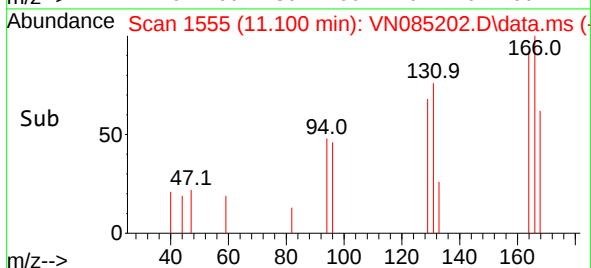
Tgt Ion:117 Resp: 268260
Ion Ratio Lower Upper
117 100
82 56.8 46.0 69.0
119 31.5 25.6 38.4

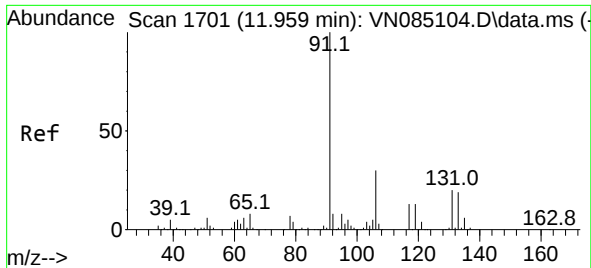


#64
Tetrachloroethene
Concen: 1.013 ug/l
RT: 11.100 min Scan# 1555
Delta R.T. -0.000 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27



Tgt Ion:164 Resp: 1832
Ion Ratio Lower Upper
164 100
166 109.0 100.6 151.0
129 74.7 77.7 116.5#
131 82.5 77.2 115.8

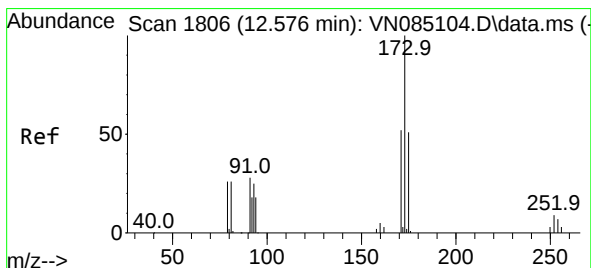
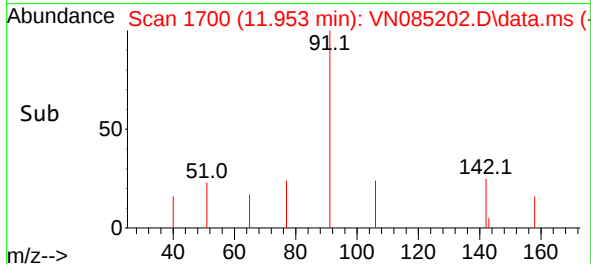
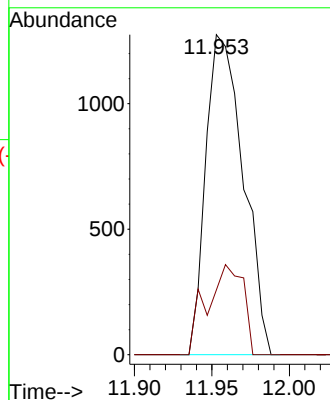
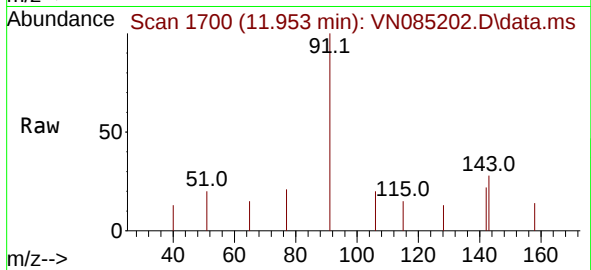




#67
Ethyl Benzene
Concen: 0.217 ug/l
RT: 11.953 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

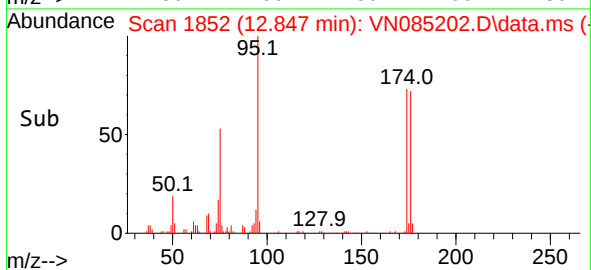
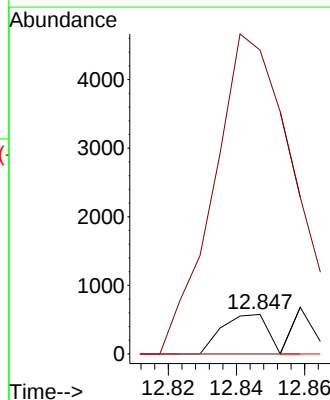
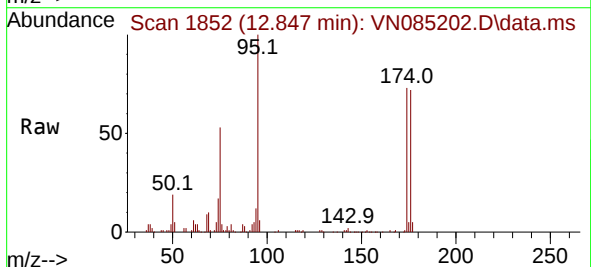
Instrument :
MSVOA_N
ClientSampleId :

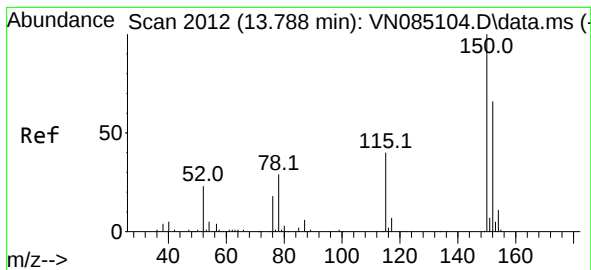
Tgt Ion: 91 Resp: 2146
Ion Ratio Lower Upper
91 100
106 20.2 24.7 37.1#



#71
Bromoform
Concen: 0.335 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

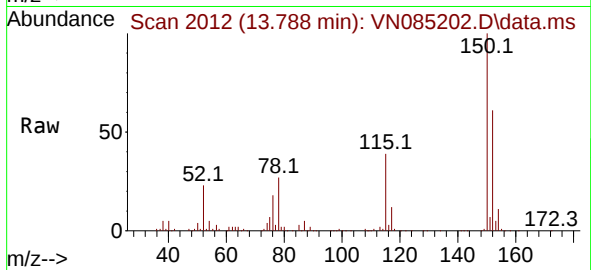
Tgt Ion:173 Resp: 532
Ion Ratio Lower Upper
173 100
175 1178.0 23.8 71.2#
254 0.0 0.0 0.0



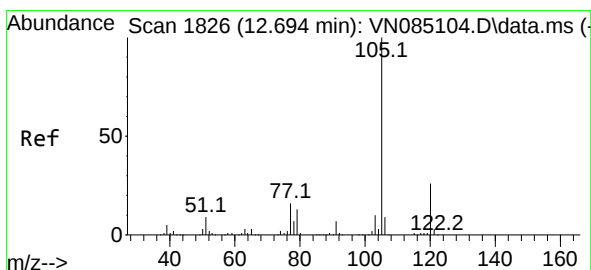
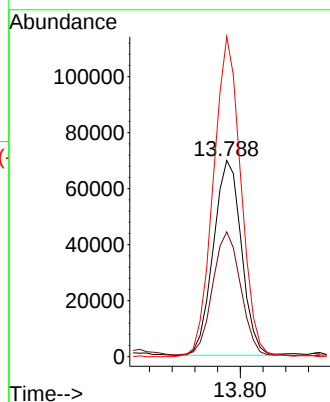
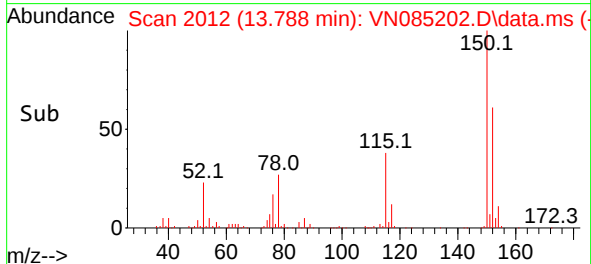


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

Instrument :
MSVOA_N
ClientSampleId :

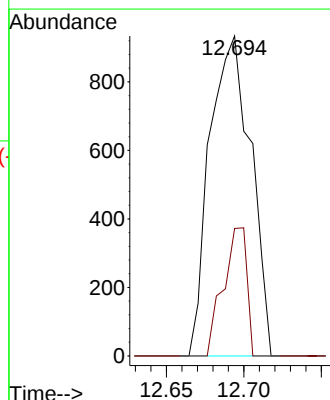
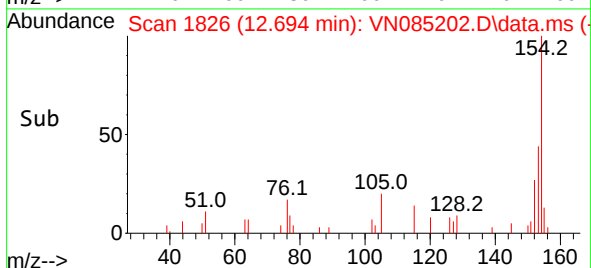
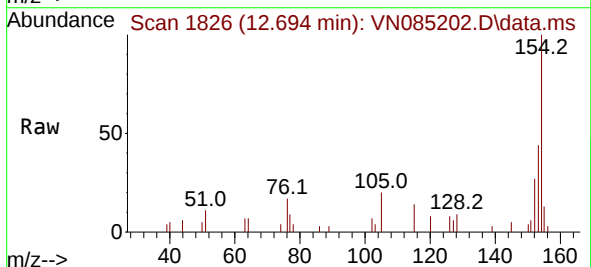


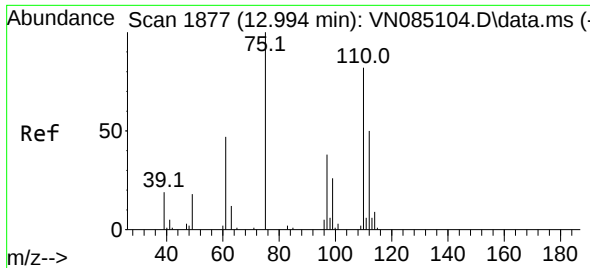
Tgt Ion:152 Resp: 119455
Ion Ratio Lower Upper
152 100
115 63.7 31.7 95.1
150 161.1 0.0 351.4



#73
Isopropylbenzene
Concen: 0.204 ug/l
RT: 12.694 min Scan# 1826
Delta R.T. -0.000 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

Tgt Ion:105 Resp: 1720
Ion Ratio Lower Upper
105 100
120 22.9 13.0 39.0

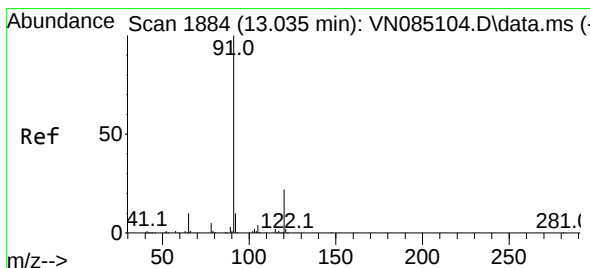
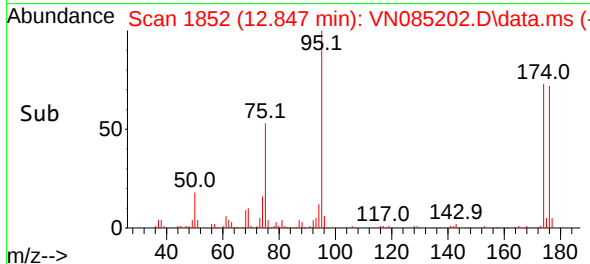
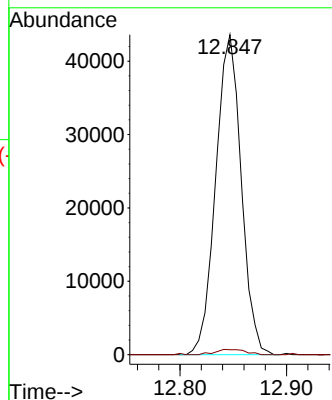
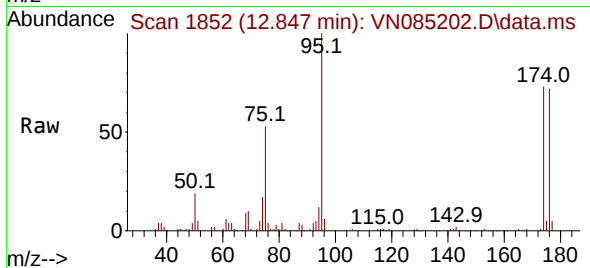




#76
1,2,3-Trichloropropane
Concen: 33.301 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

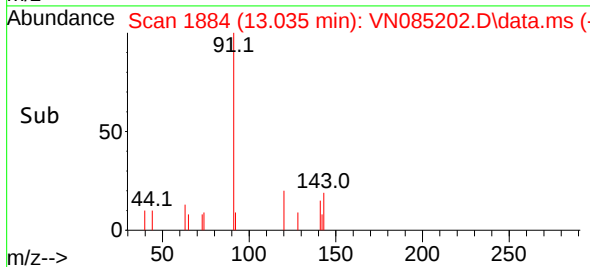
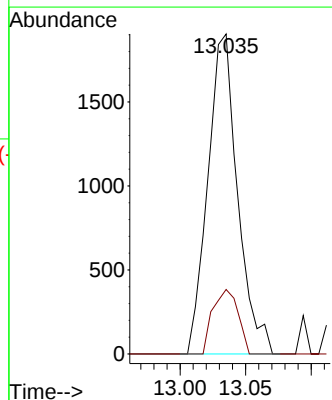
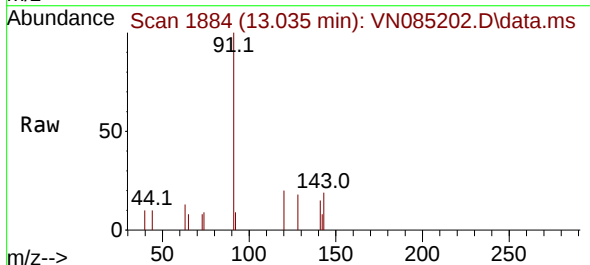
Instrument :
MSVOA_N
ClientSampleId :

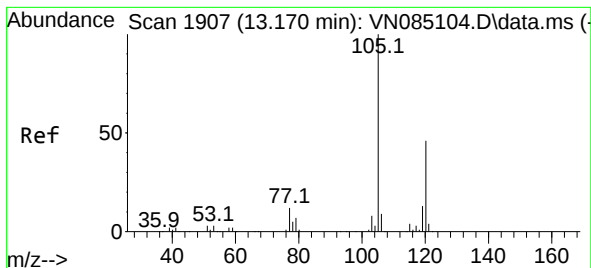
Tgt Ion: 75 Resp: 72357
Ion Ratio Lower Upper
75 100
77 2.0 109.1 327.4#



#78
n-propylbenzene
Concen: 0.310 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

Tgt Ion: 91 Resp: 3009
Ion Ratio Lower Upper
91 100
120 17.1 11.3 33.9





#80

1,3,5-Trimethylbenzene

Concen: 0.513 ug/l

RT: 13.335 min Scan# 1907

Delta R.T. 0.165 min

Lab File: VN085202.D

Acq: 13 Dec 2024 17:27

Instrument :

MSVOA_N

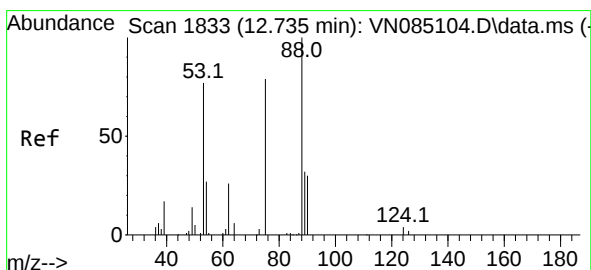
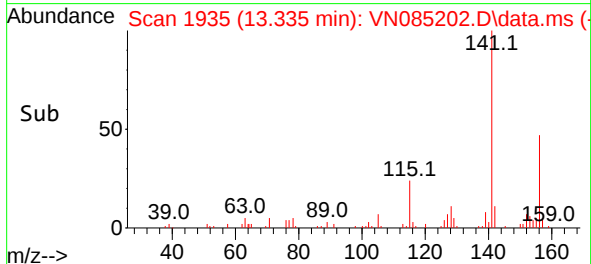
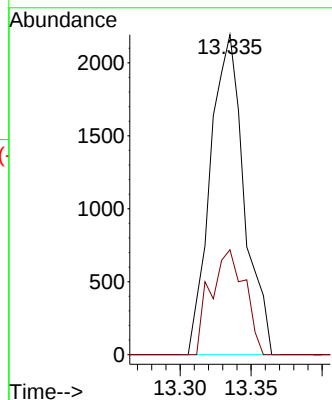
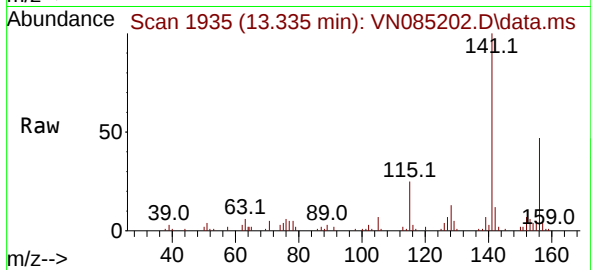
ClientSampleId :

Tgt Ion:105 Resp: 3629

Ion Ratio Lower Upper

105 100

120 33.2 23.6 71.0



#81

trans-1,4-Dichloro-2-butene

Concen: 73.515 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN085202.D

Acq: 13 Dec 2024 17:27

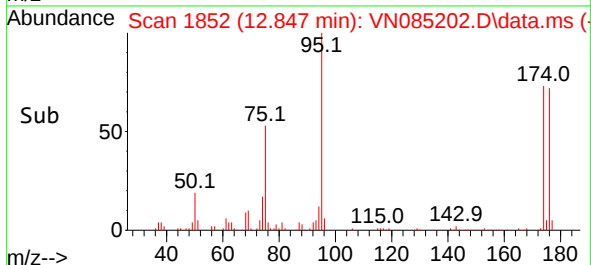
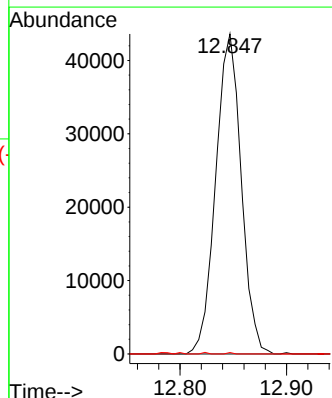
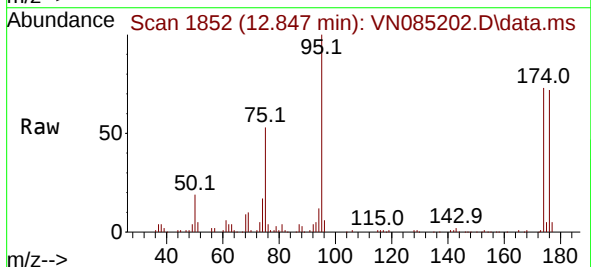
Tgt Ion: 75 Resp: 72357

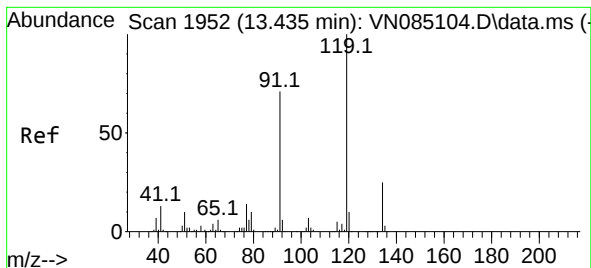
Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.1 37.9 56.9#





#83

tert-Butylbenzene

Concen: 0.273 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. 0.041 min

Lab File: VN085202.D

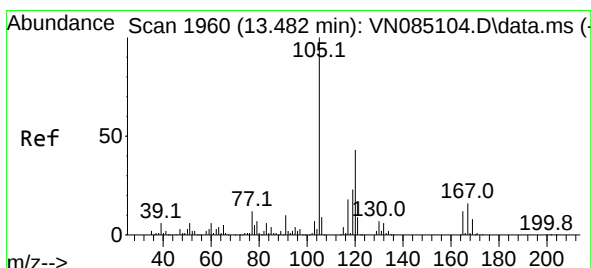
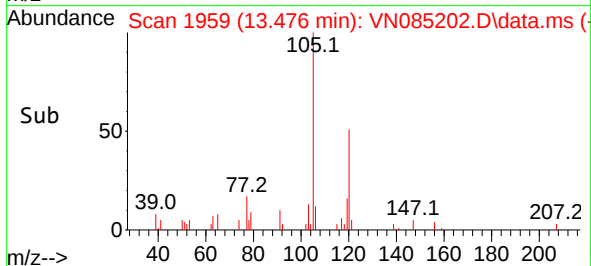
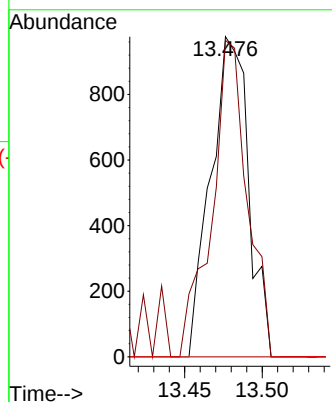
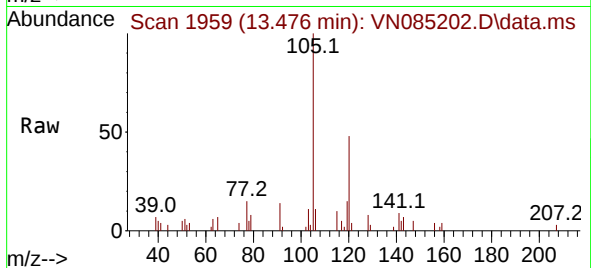
Acq: 13 Dec 2024 17:27

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:119	Resp:	1658
Ion Ratio	Lower	Upper
119	100	
91	92.9	35.1 105.5
134	0.0	12.1 36.3#



#84

1,2,4-Trimethylbenzene

Concen: 1.708 ug/l

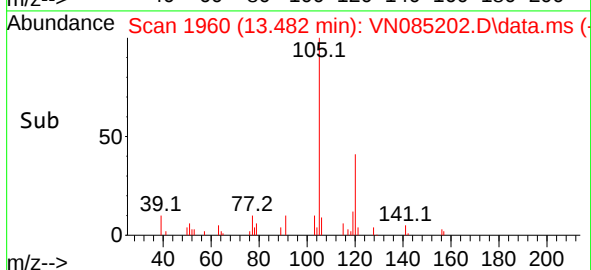
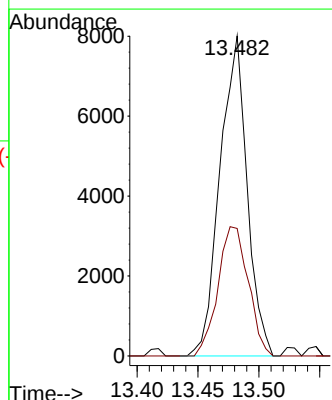
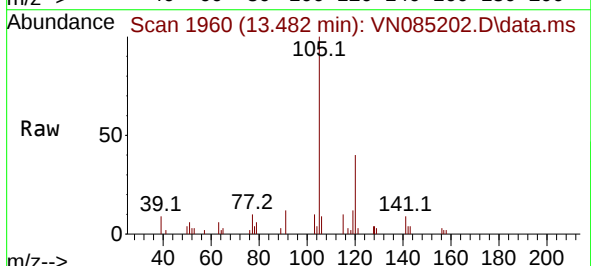
RT: 13.482 min Scan# 1960

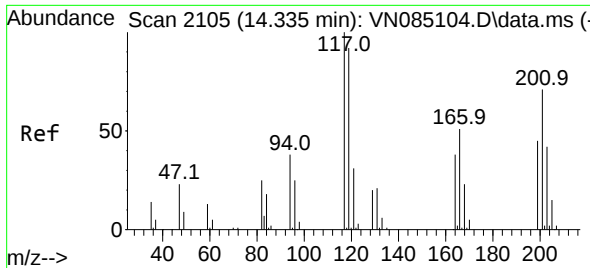
Delta R.T. 0.006 min

Lab File: VN085202.D

Acq: 13 Dec 2024 17:27

Tgt Ion:105	Resp:	12430
Ion Ratio	Lower	Upper
105	100	
120	45.0	21.8 65.4

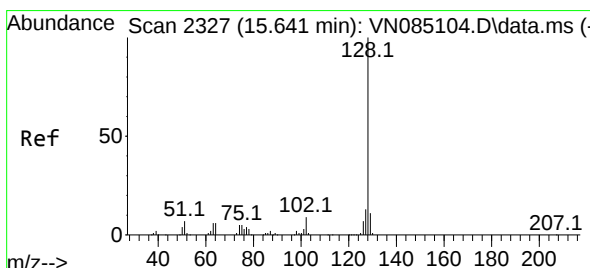
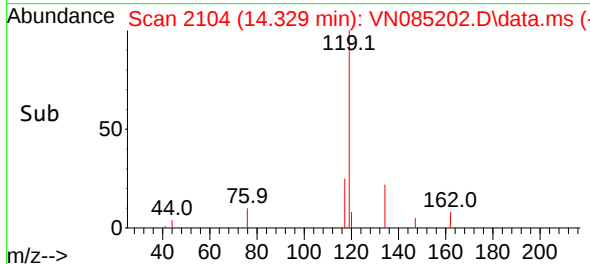
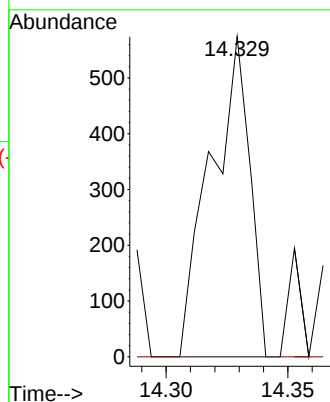
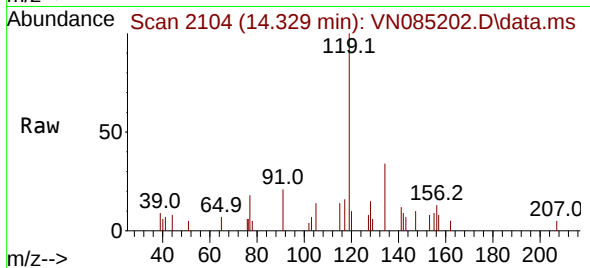




#90
Hexachloroethane
Concen: 0.432 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.000 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:117 Resp: 639
Ion Ratio Lower Upper
117 100
201 0.0 35.2 105.6#



#95
Naphthalene
Concen: 48.421 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN085202.D
Acq: 13 Dec 2024 17:27

Tgt Ion:128 Resp: 321136
Ion Ratio Lower Upper
128 100
127 13.5 10.6 16.0
129 11.3 8.6 12.8

