

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112723\
 Data File : VN080286.D
 Acq On : 27 Nov 2023 19:34
 Operator : JC\MD
 Sample : 05550-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 28 02:11:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 17 01:19:32 2023
 Response via : Initial Calibration

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

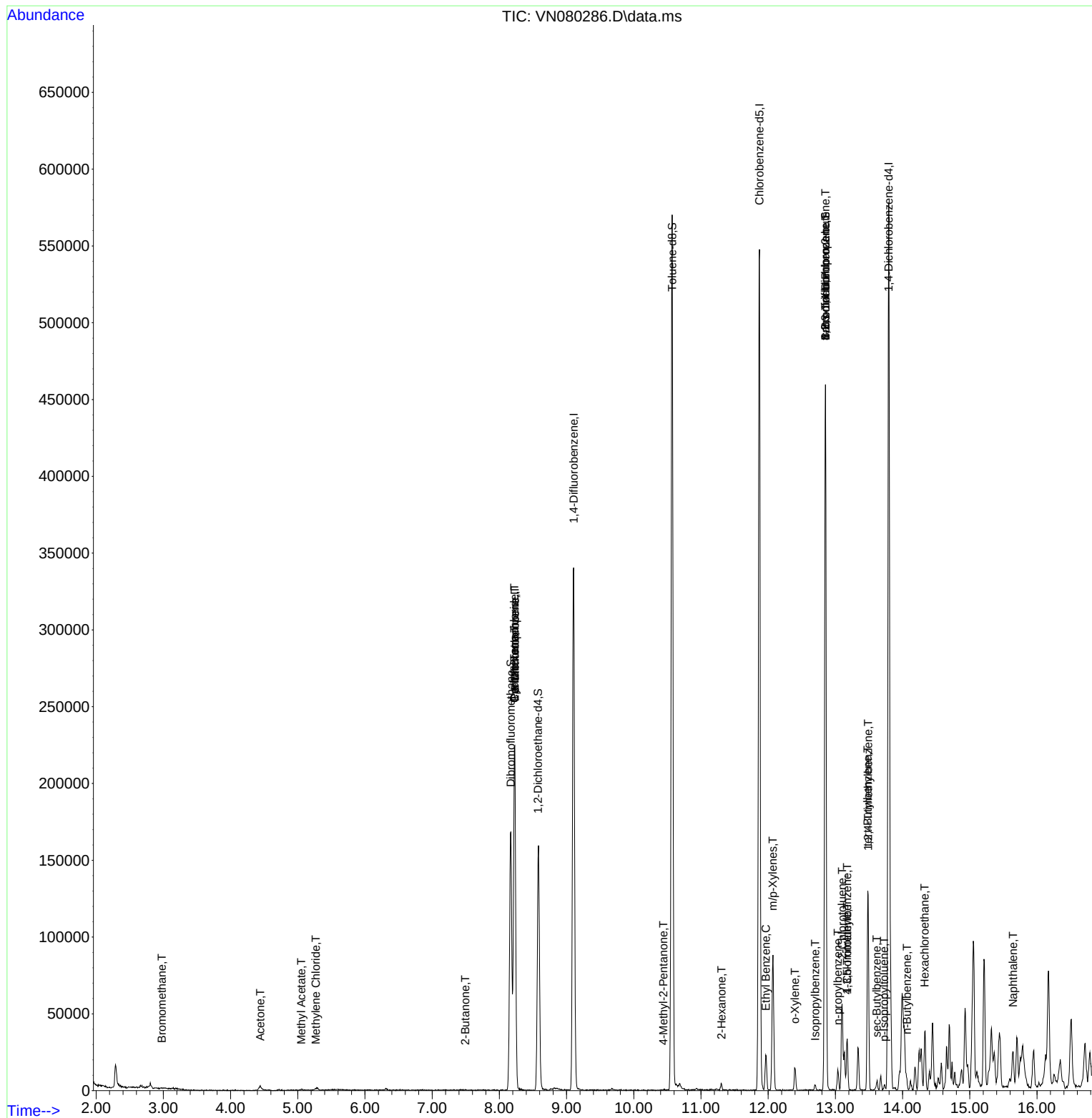
Internal Standards						
1) Pentafluorobenzene	8.229	168	159320	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	296477	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	317521	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	150820	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	142784	54.278	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.560%			
35) Dibromofluoromethane	8.171	113	116201	53.118	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.240%			
50) Toluene-d8	10.570	98	401053	50.857	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.720%			
62) 4-Bromofluorobenzene	12.853	95	160480	53.877	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 107.760%			
Target Compounds						Qvalue
5) Bromomethane	2.977	94	277	0.216	ug/l #	67
6) Chloroethane	3.141	64	274	Below Cal	#	43
16) Acetone	4.441	43	5001	5.660	ug/l	88
18) Methyl Acetate	5.053	43	1019	0.359	ug/l #	42
20) Methylene Chloride	5.271	84	400	0.216	ug/l #	52
25) 2-Butanone	7.494	43	282	0.269	ug/l #	37
31) Cyclohexane	8.223	56	3229	1.129	ug/l #	22
36) 1,1-Dichloropropene	8.229	75	13432	4.241	ug/l #	51
38) Carbon Tetrachloride	8.223	117	17637	4.388	ug/l #	17
51) 4-Methyl-2-Pentanone	10.441	43	559	0.253	ug/l #	69
59) 2-Hexanone	11.306	43	486	0.273	ug/l #	19
67) Ethyl Benzene	11.964	91	17597	1.374	ug/l	96
68) m/p-Xylenes	12.070	106	26868	5.756	ug/l	90
69) o-Xylene	12.400	106	4426	1.006	ug/l	99
71) Bromoform	12.853	173	860	0.415	ug/l #	1
73) Isopropylbenzene	12.700	105	2618	0.223	ug/l	89
76) 1,2,3-Trichloropropane	12.853	75	88102	23.841	ug/l #	1
78) n-propylbenzene	13.035	91	11015	0.840	ug/l	100
79) 2-Chlorotoluene	13.100	91	7021	0.825	ug/l #	42
80) 1,3,5-Trimethylbenzene	13.176	105	17808	1.746	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.853	75	88102	80.550	ug/l #	15
82) 4-Chlorotoluene	13.176	91	1778	0.204	ug/l #	41
83) tert-Butylbenzene	13.482	119	9095	1.112	ug/l #	62
84) 1,2,4-Trimethylbenzene	13.488	105	74318	7.398	ug/l	97
85) sec-Butylbenzene	13.617	105	4507	0.435	ug/l	92
86) p-Isopropyltoluene	13.723	119	2366	0.256	ug/l	87
89) n-Butylbenzene	14.064	91	4036	0.522	ug/l #	72
90) Hexachloroethane	14.329	117	2363	1.311	ug/l #	21
95) Naphthalene	15.647	128	21522	2.505	ug/l	98

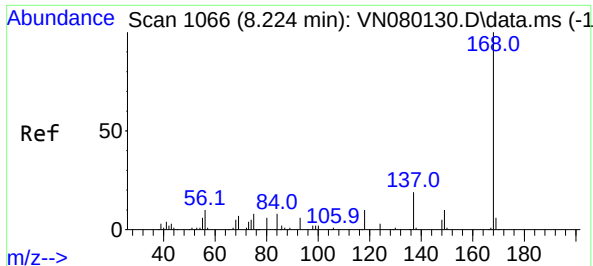
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N111623W.M
Quant Title : SW846 8260
QLast Update : Fri Nov 17 01:19:32 2023
Response via : Initial Calibration

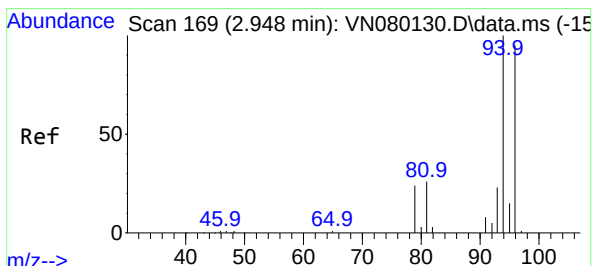
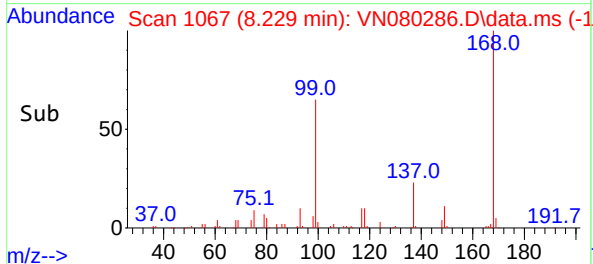
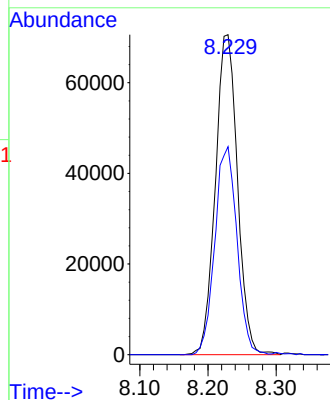
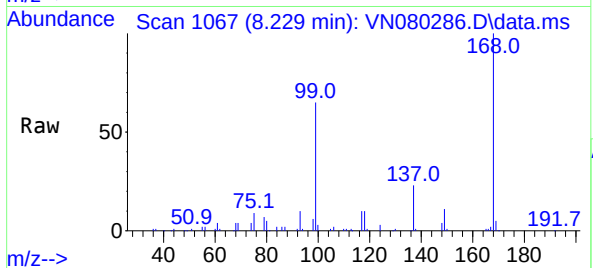




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 11
Delta R.T. 0.005 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

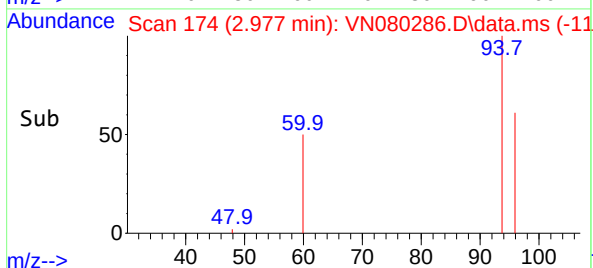
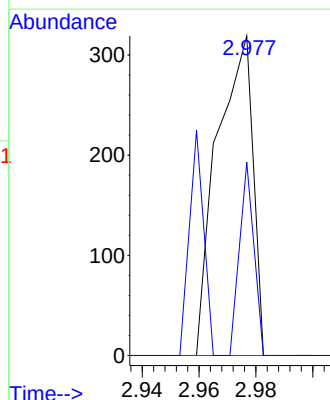
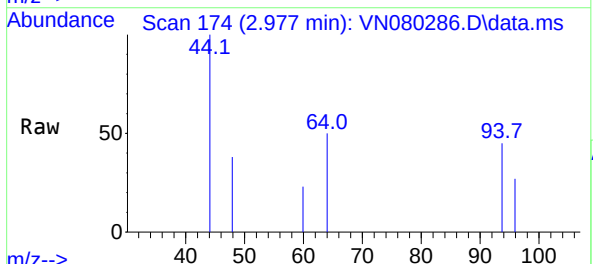
Instrument :
MSVOA_N
ClientSampleId :

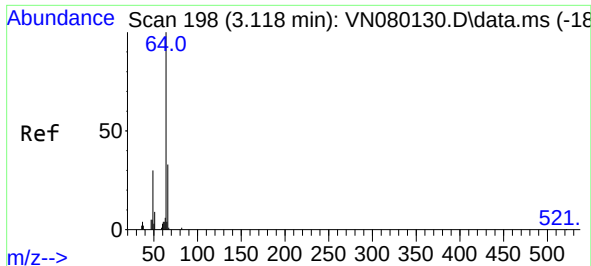
Tgt Ion:168 Resp: 159320
Ion Ratio Lower Upper
168 100
99 65.0 53.0 79.6



#5
Bromomethane
Concen: 0.216 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.029 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

Tgt Ion: 94 Resp: 277
Ion Ratio Lower Upper
94 100
96 60.5 73.1 109.7#

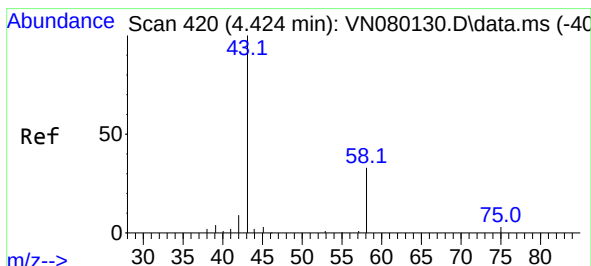
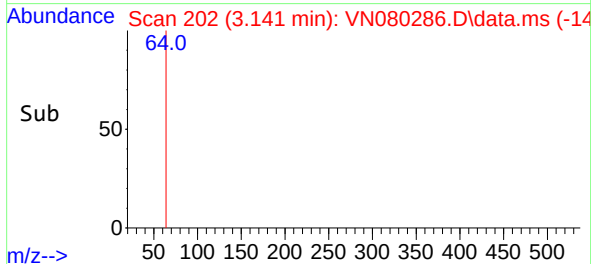
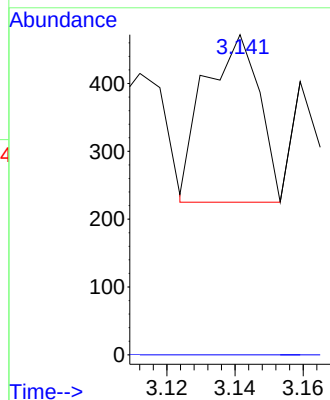
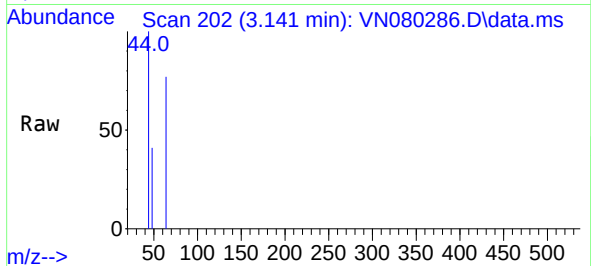




#6
Chloroethane
Concen: Below Cal
RT: 3.141 min Scan# 20
Delta R.T. 0.023 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

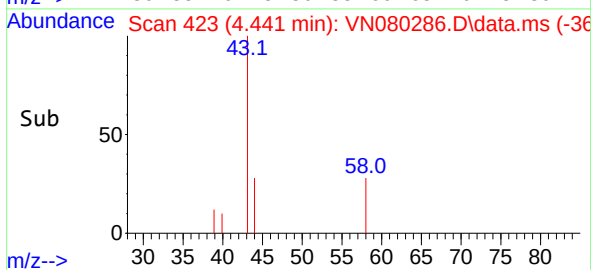
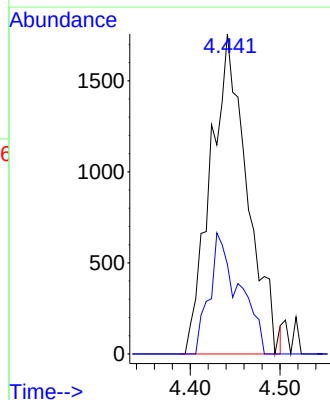
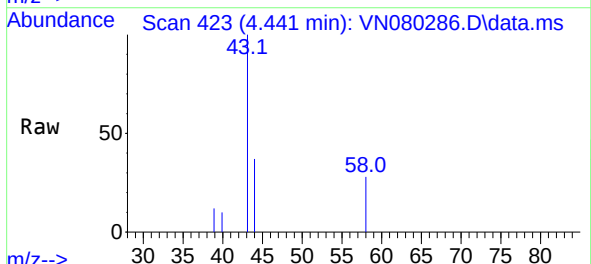
Instrument :
MSVOA_N
ClientSampleId :

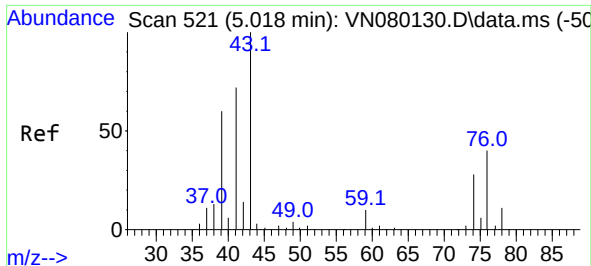
Tgt Ion: 64 Resp: 274
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#



#16
Acetone
Concen: 5.660 ug/l
RT: 4.441 min Scan# 423
Delta R.T. 0.017 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

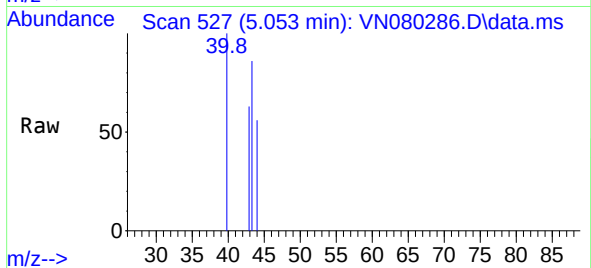
Tgt Ion: 43 Resp: 5001
Ion Ratio Lower Upper
43 100
58 28.0 28.0 42.0



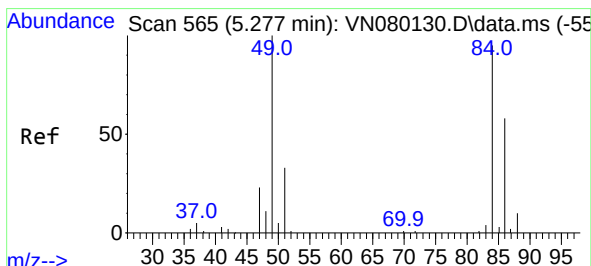
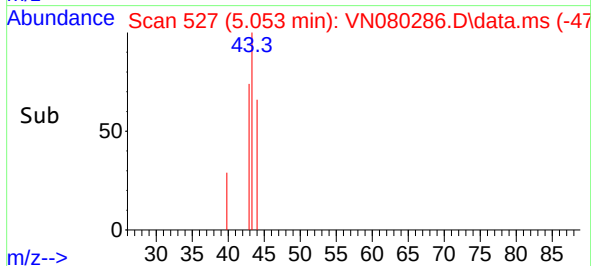
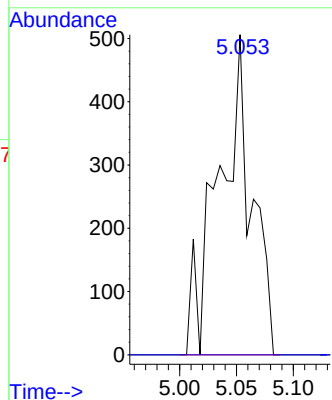


#18
Methyl Acetate
Concen: 0.359 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.035 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

Instrument :
MSVOA_N
ClientSampleId :

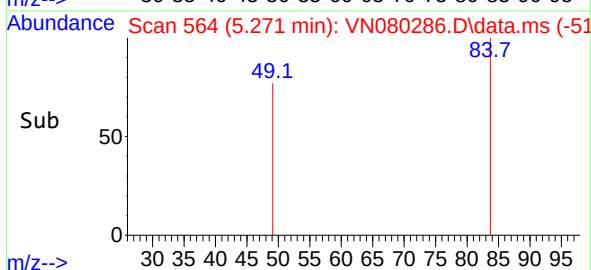
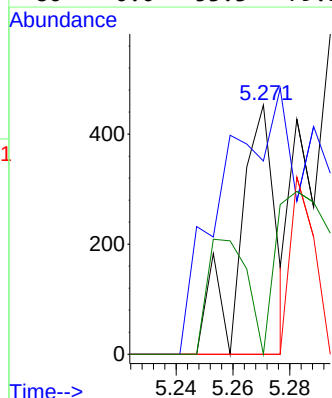
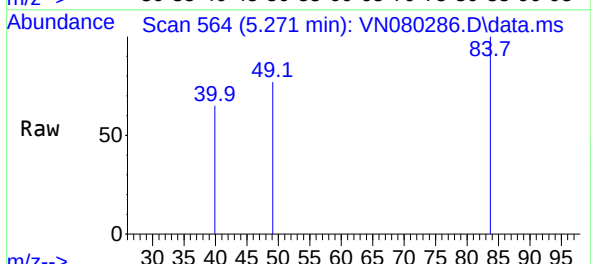


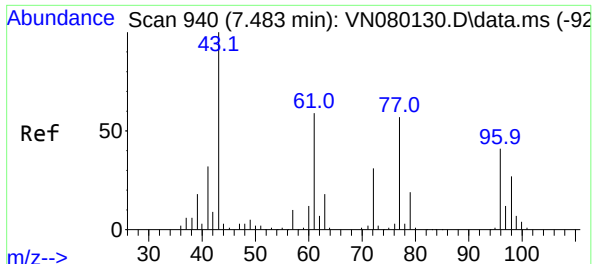
Tgt Ion: 43 Resp: 1019
Ion Ratio Lower Upper
43 100
74 0.0 26.2 39.4#



#20
Methylene Chloride
Concen: 0.216 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

Tgt Ion: 84 Resp: 400
Ion Ratio Lower Upper
84 100
49 77.5 79.7 119.5#
51 0.0 25.2 37.8#
86 0.0 53.3 79.9#





#25

2-Butanone

Concen: 0.269 ug/l

RT: 7.494 min Scan# 94

Delta R.T. 0.011 min

Lab File: VN080286.D

Acq: 27 Nov 2023 19:34

Instrument :

MSVOA_N

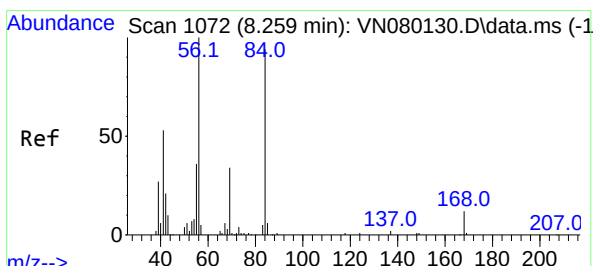
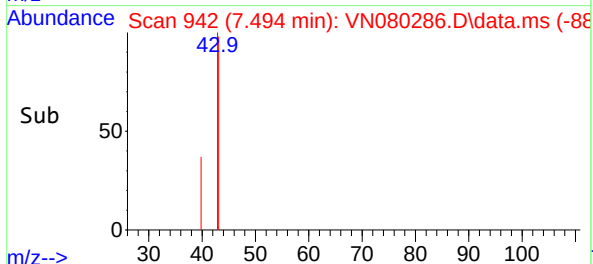
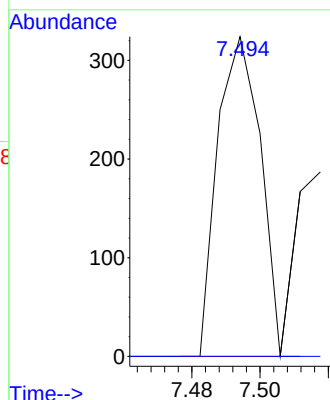
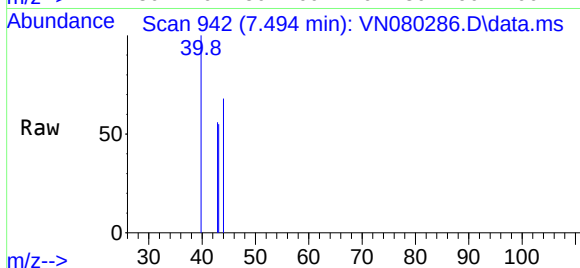
ClientSampleId :

Tgt Ion: 43 Resp: 282

Ion Ratio Lower Upper

43 100

72 0.0 30.2 45.2#



#31

Cyclohexane

Concen: 1.129 ug/l

RT: 8.223 min Scan# 1066

Delta R.T. -0.036 min

Lab File: VN080286.D

Acq: 27 Nov 2023 19:34

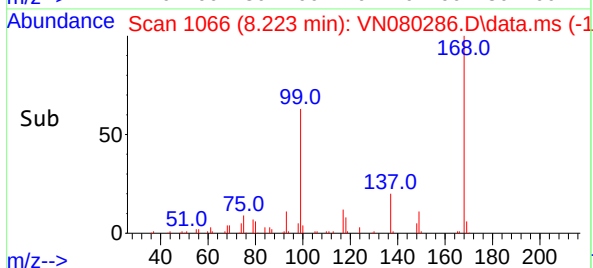
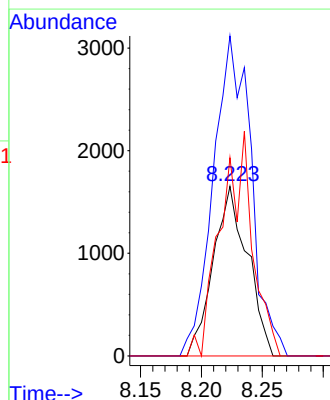
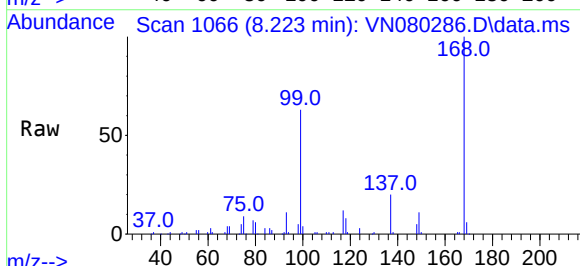
Tgt Ion: 56 Resp: 3229

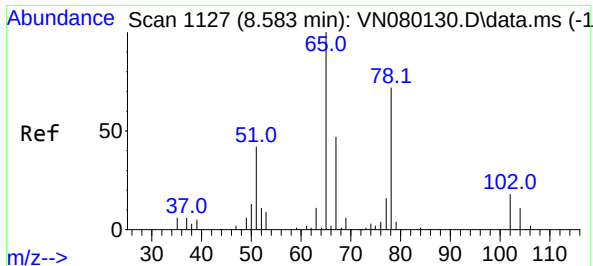
Ion Ratio Lower Upper

56 100

69 188.6 26.8 40.2#

84 116.8 81.8 122.6





#33

1,2-Dichloroethane-d4

Concen: 54.278 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN080286.D

Acq: 27 Nov 2023 19:34

Instrument :

MSVOA_N

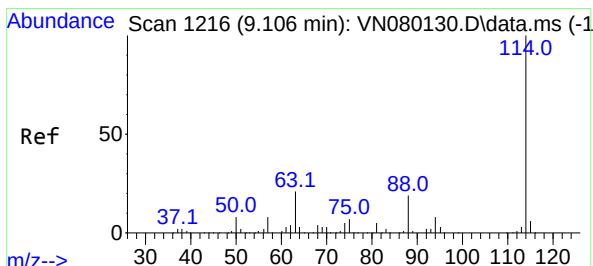
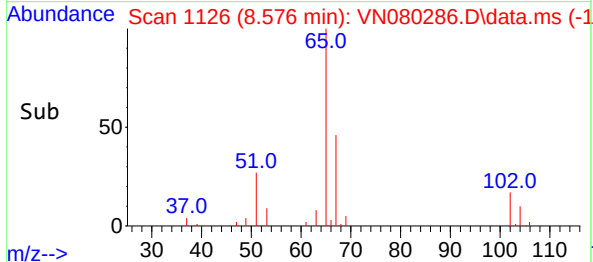
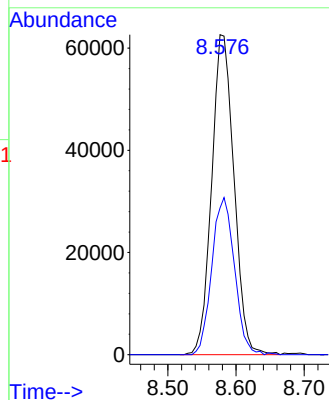
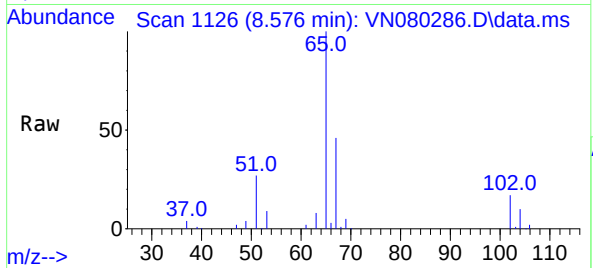
ClientSampleId :

Tgt Ion: 65 Resp: 142784

Ion Ratio Lower Upper

65 100

67 49.9 0.0 106.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN080286.D

Acq: 27 Nov 2023 19:34

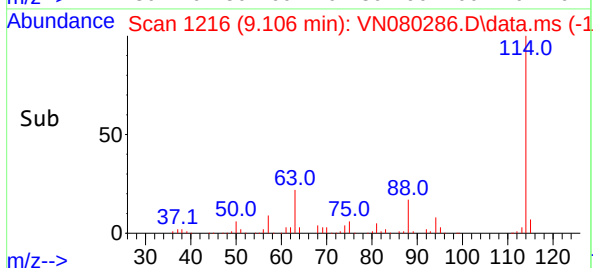
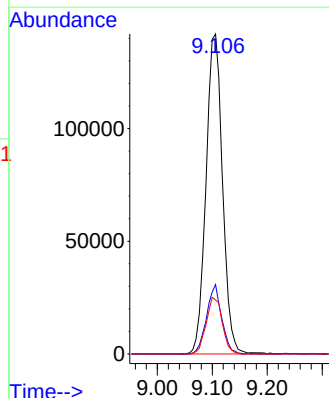
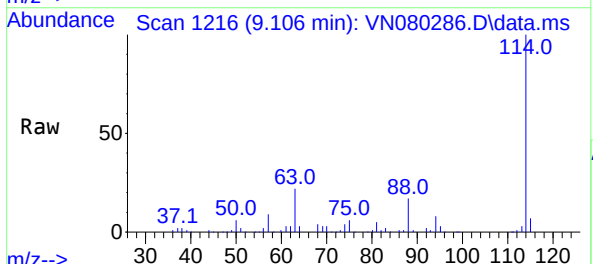
Tgt Ion: 114 Resp: 296477

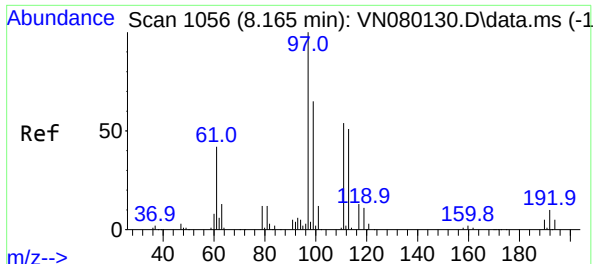
Ion Ratio Lower Upper

114 100

63 21.7 0.0 36.4

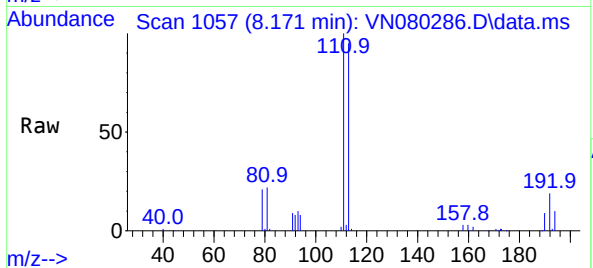
88 16.9 0.0 30.6



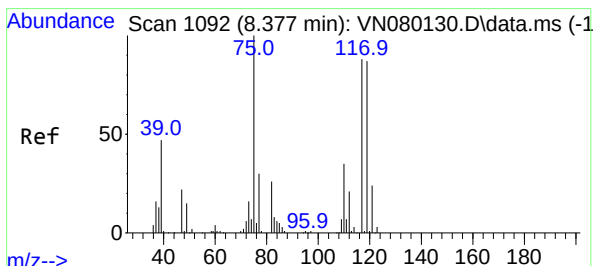
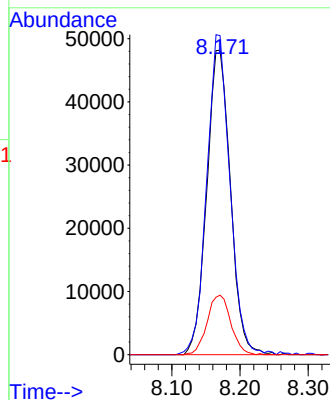
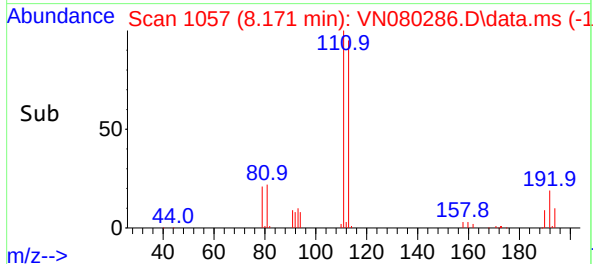


#35
Dibromofluoromethane
Concen: 53.118 ug/l
RT: 8.171 min Scan# 1056
Delta R.T. 0.006 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

Instrument :
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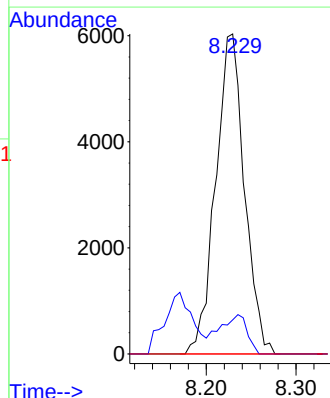
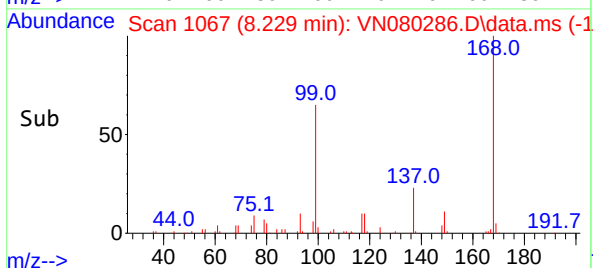
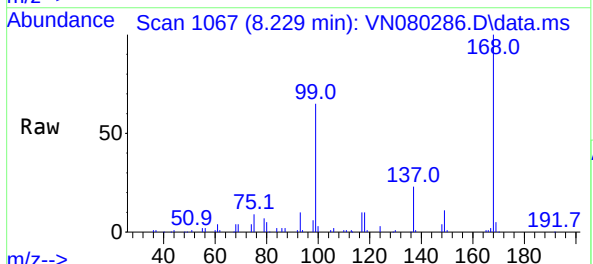


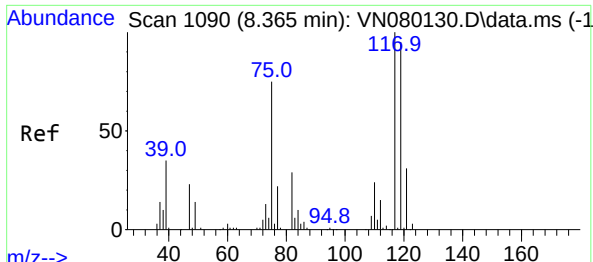
Tgt Ion:113 Resp: 116201
Ion Ratio Lower Upper
113 100
111 103.0 82.6 123.8
192 19.6 12.7 19.1#



#36
1,1-Dichloropropene
Concen: 4.241 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

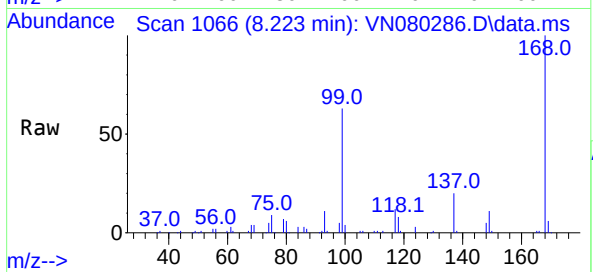
Tgt Ion: 75 Resp: 13432
Ion Ratio Lower Upper
75 100
110 11.8 19.1 57.3#
77 0.0 25.0 37.4#



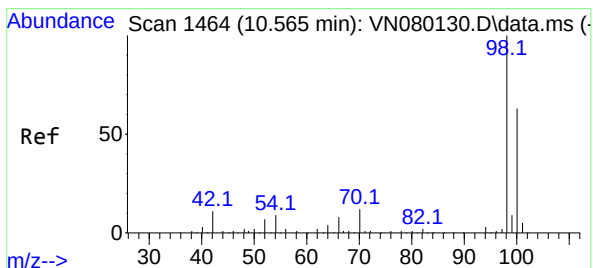
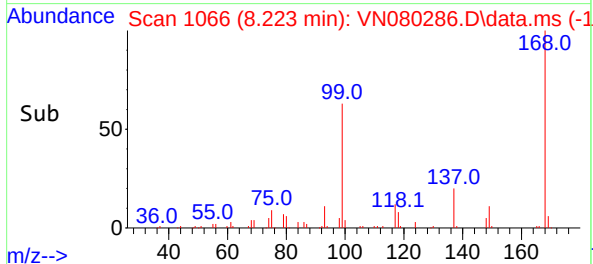
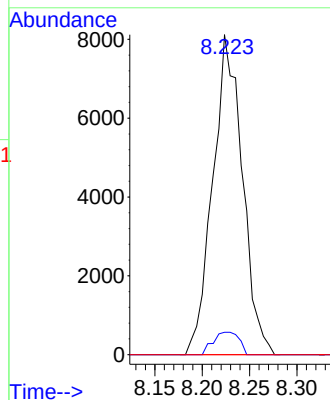


#38
Carbon Tetrachloride
Concen: 4.388 ug/l
RT: 8.223 min Scan# 1066
Delta R.T. -0.141 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

Instrument :
MSVOA_N
ClientSampleId :

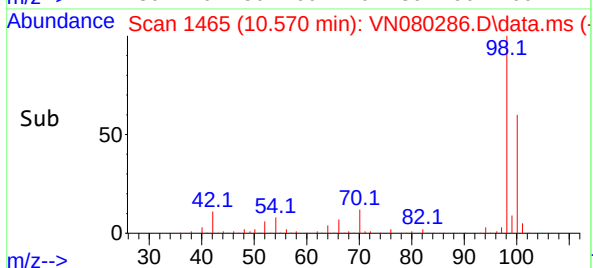
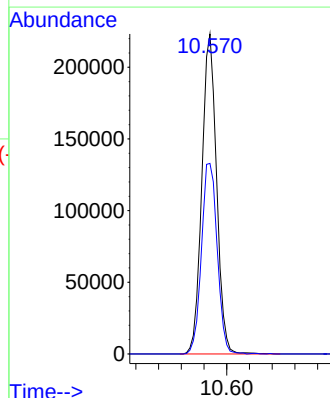
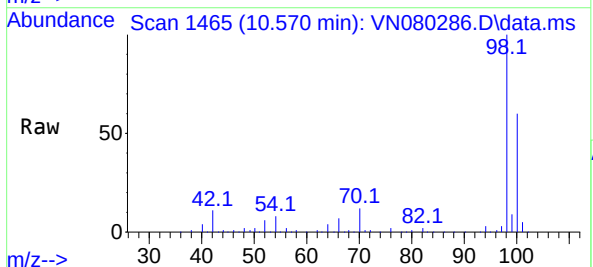


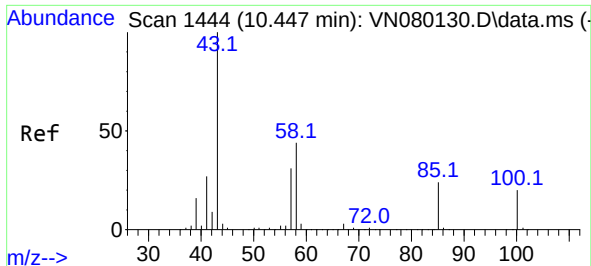
Tgt Ion:117 Resp: 17637
Ion Ratio Lower Upper
117 100
119 7.0 77.3 115.9#
121 0.0 23.3 34.9#



#50
Toluene-d8
Concen: 50.857 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

Tgt Ion: 98 Resp: 401053
Ion Ratio Lower Upper
98 100
100 63.7 52.0 78.0

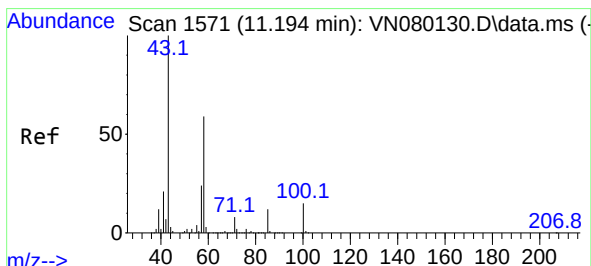
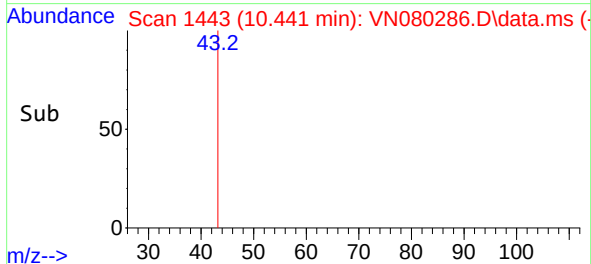
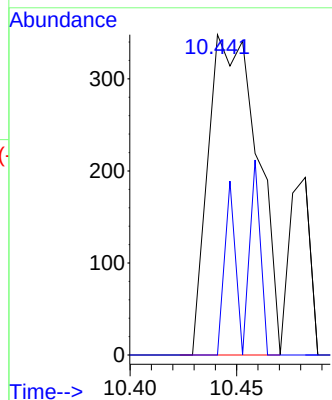
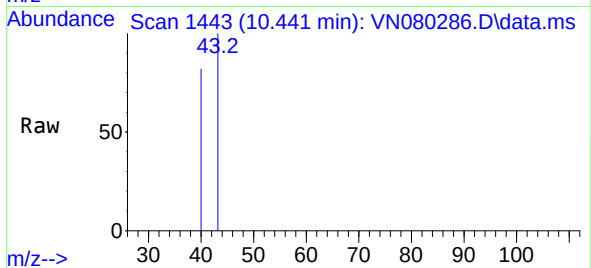




#51
4-Methyl-2-Pentanone
Concen: 0.253 ug/l
RT: 10.441 min Scan# 1444
Delta R.T. -0.006 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

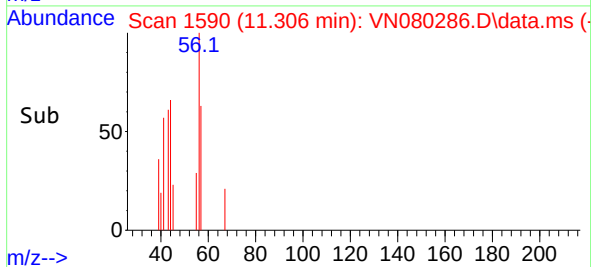
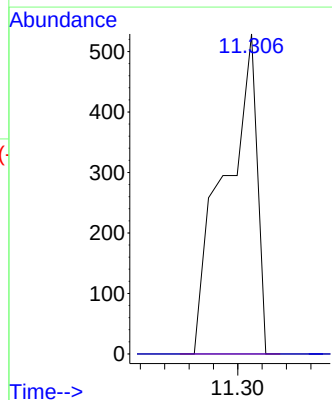
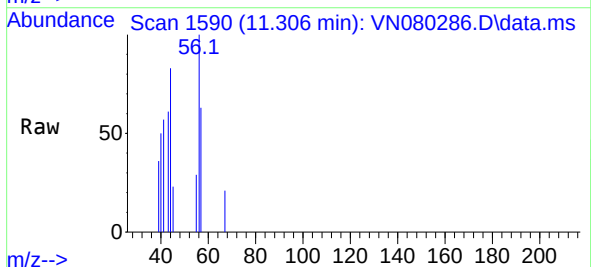
Instrument :
MSVOA_N
ClientSampleId :

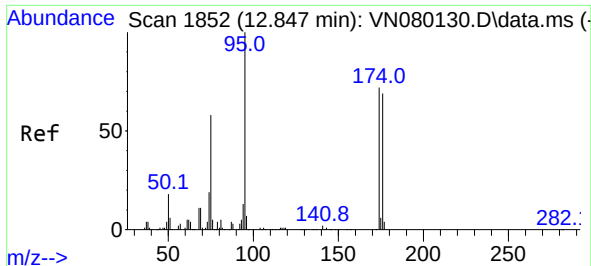
Tgt Ion: 43 Resp: 559
Ion Ratio Lower Upper
43 100
58 25.2 36.6 54.8#



#59
2-Hexanone
Concen: 0.273 ug/l
RT: 11.306 min Scan# 1590
Delta R.T. 0.111 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

Tgt Ion: 43 Resp: 486
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#

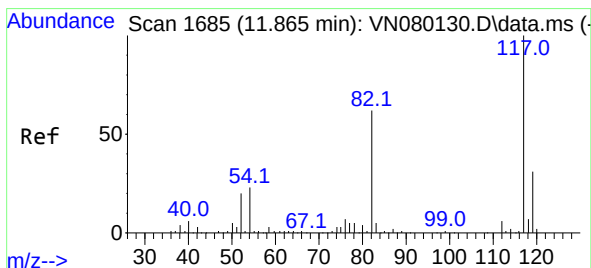
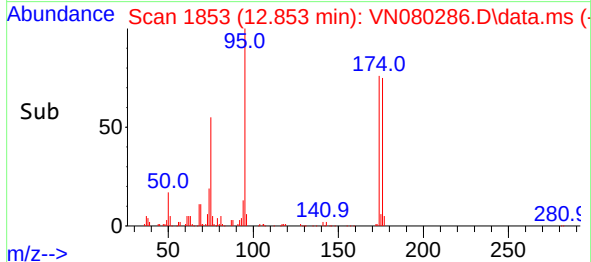
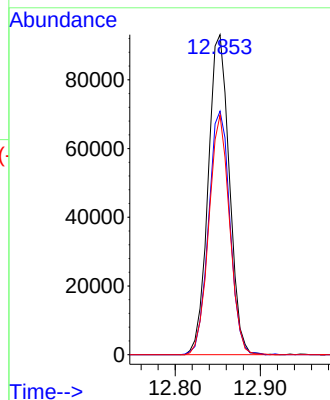
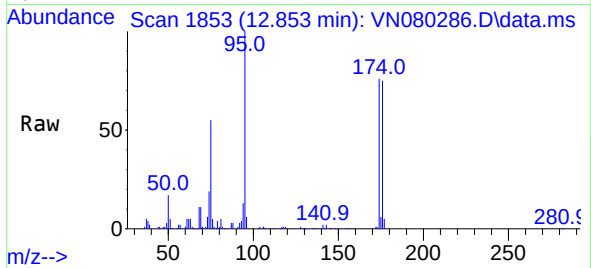




#62
4-Bromofluorobenzene
Concen: 53.877 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

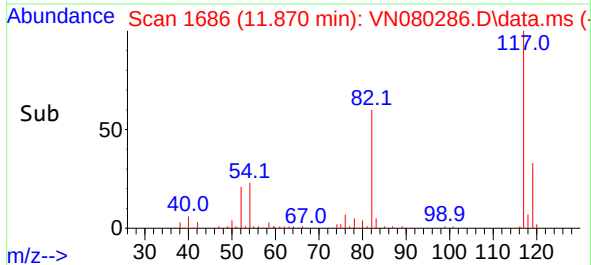
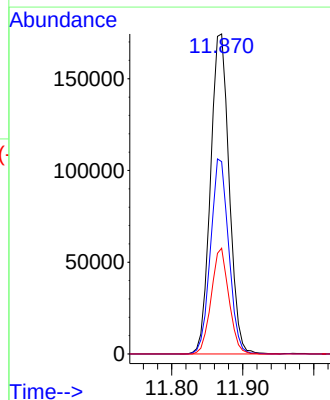
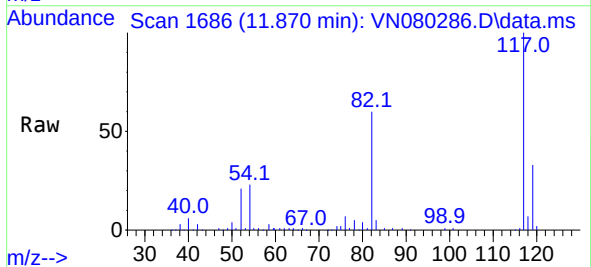
Instrument :
MSVOA_N
ClientSampleId :

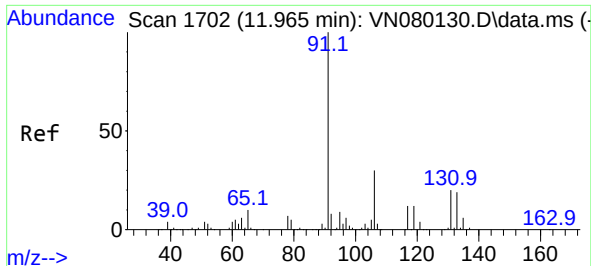
Tgt Ion: 95 Resp: 160480
Ion Ratio Lower Upper
95 100
174 76.8 0.0 143.8
176 73.1 0.0 135.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

Tgt Ion: 117 Resp: 317521
Ion Ratio Lower Upper
117 100
82 60.1 44.0 66.0
119 33.1 25.6 38.4

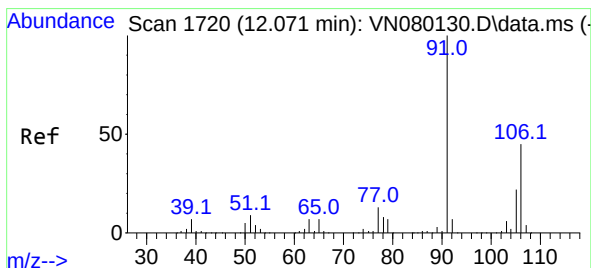
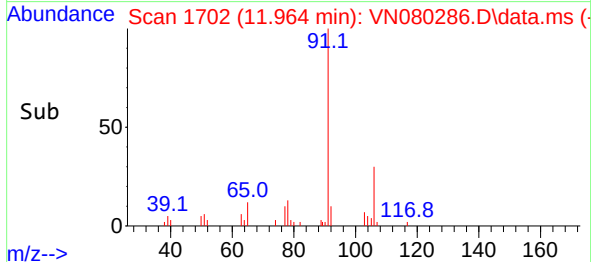
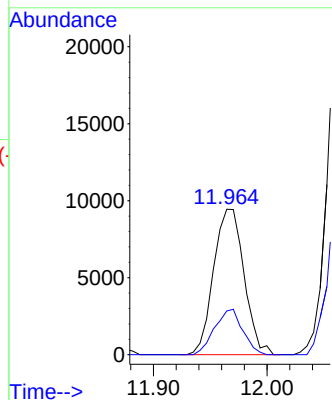
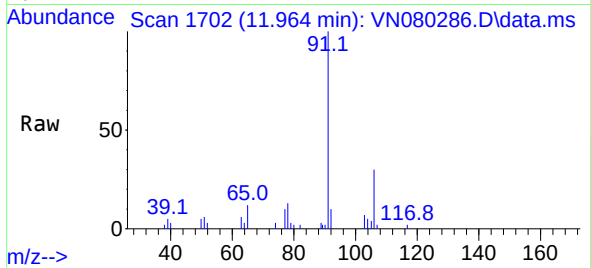




#67
Ethyl Benzene
Concen: 1.374 ug/l
RT: 11.964 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

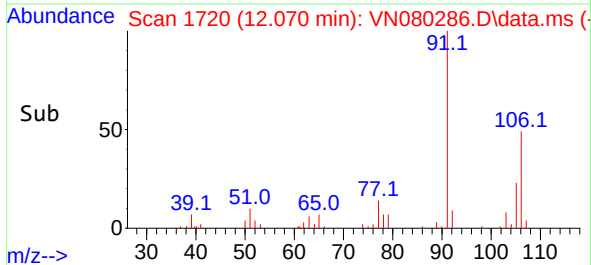
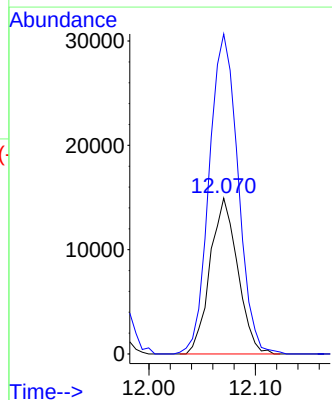
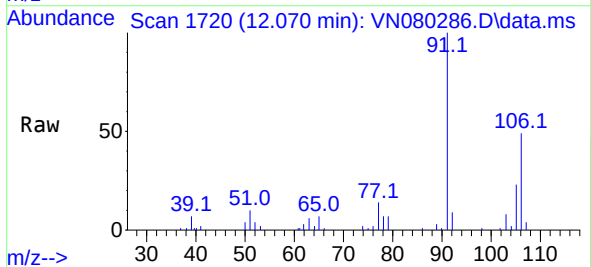
Instrument :
MSVOA_N
ClientSampleId :

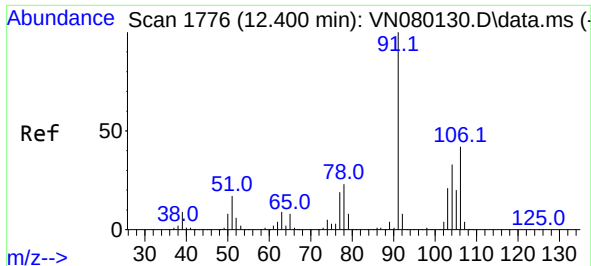
Tgt Ion: 91 Resp: 17597
Ion Ratio Lower Upper
91 100
106 30.0 25.6 38.4



#68
m/p-Xylenes
Concen: 5.756 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

Tgt Ion:106 Resp: 26868
Ion Ratio Lower Upper
106 100
91 214.7 159.6 239.4

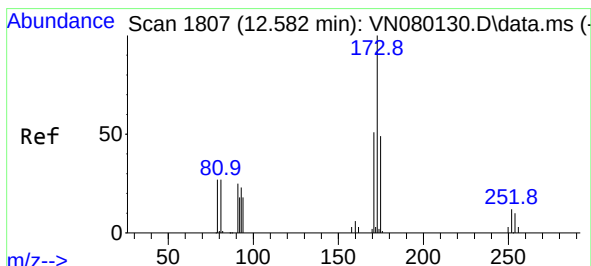
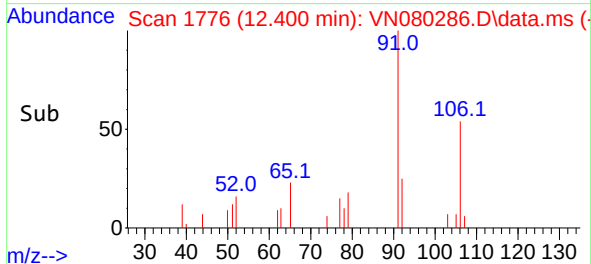
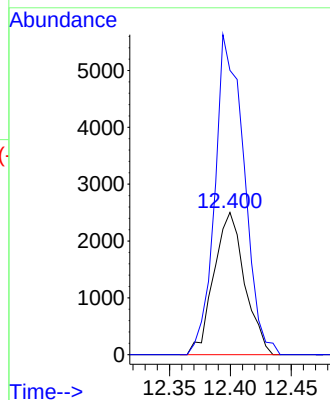
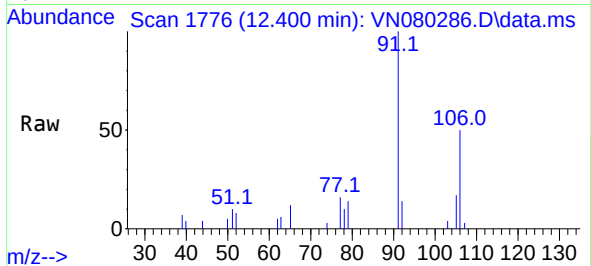




#69
o-Xylene
Concen: 1.006 ug/l
RT: 12.400 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

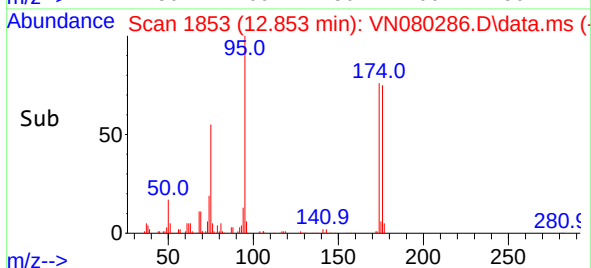
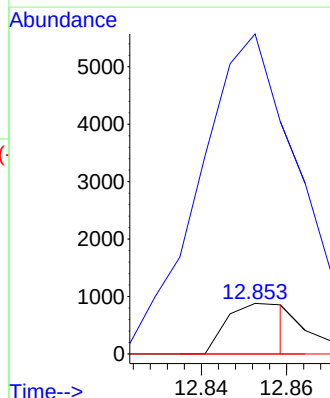
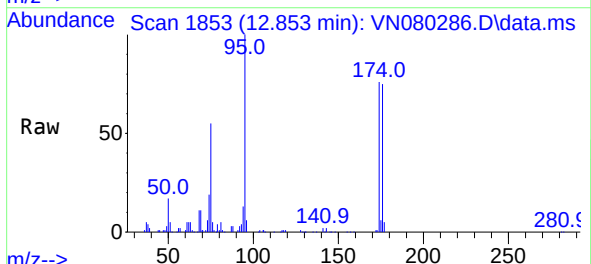
Instrument :
MSVOA_N
ClientSampleId :

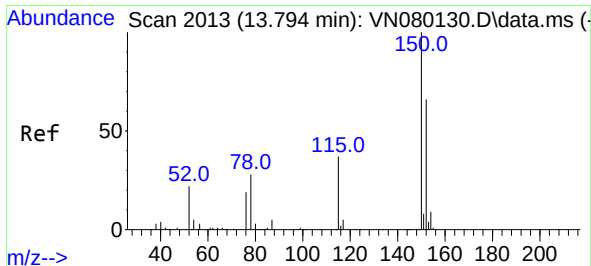
Tgt Ion:106 Resp: 4426
Ion Ratio Lower Upper
106 100
91 211.6 105.2 315.5



#71
Bromoform
Concen: 0.415 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.270 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

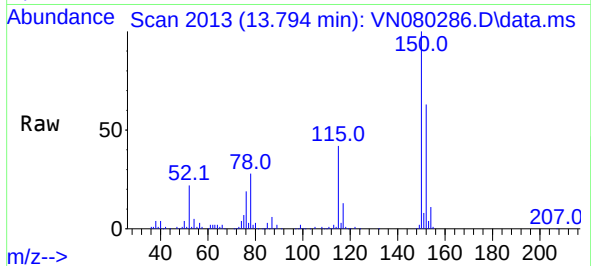
Tgt Ion:173 Resp: 860
Ion Ratio Lower Upper
173 100
175 861.0 24.3 73.0#
254 0.0 0.0 0.0



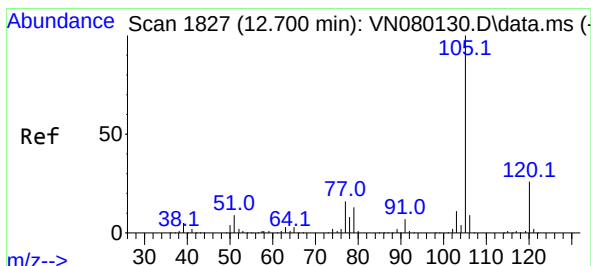
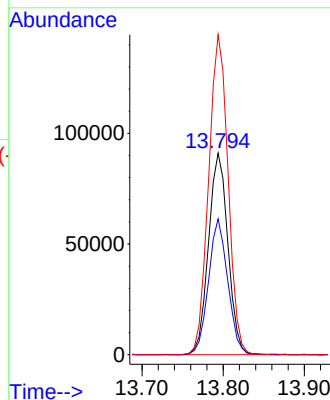
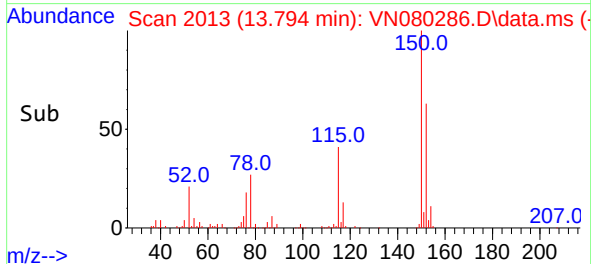


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

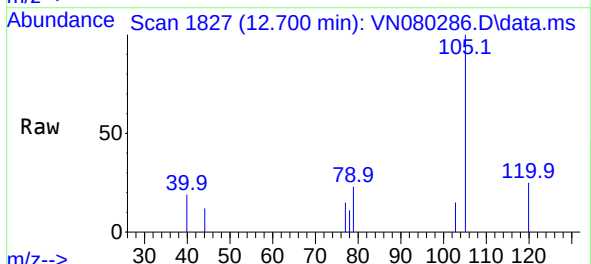
Instrument :
MSVOA_N
ClientSampleId :



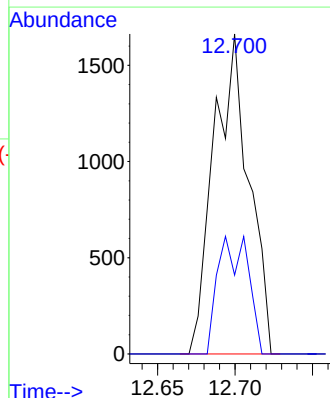
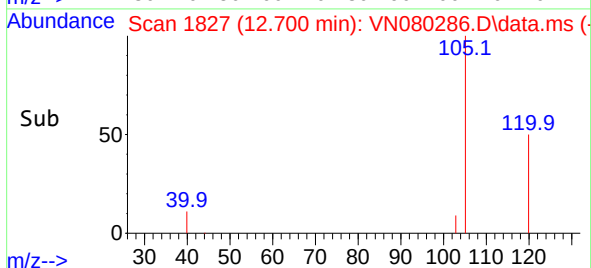
Tgt Ion:152 Resp: 150820
Ion Ratio Lower Upper
152 100
115 67.2 32.3 96.8
150 159.1 0.0 355.8

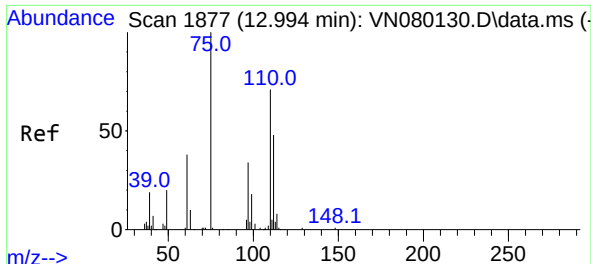


#73
Isopropylbenzene
Concen: 0.223 ug/l
RT: 12.700 min Scan# 1827
Delta R.T. -0.000 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34



Tgt Ion:105 Resp: 2618
Ion Ratio Lower Upper
105 100
120 31.5 13.1 39.1

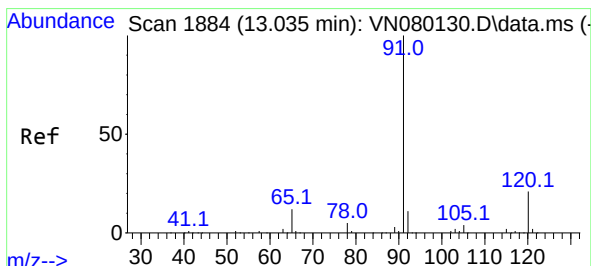
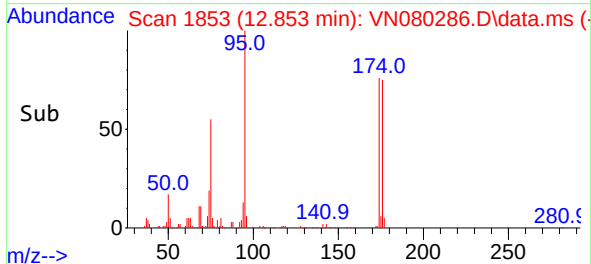
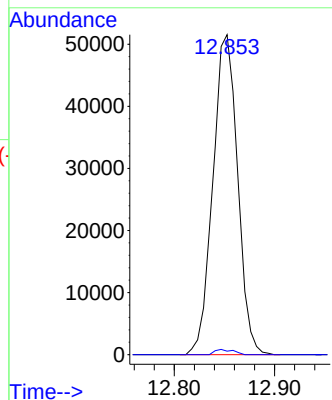
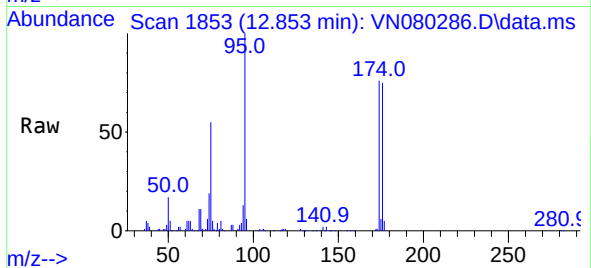




#76
1,2,3-Trichloropropane
Concen: 23.841 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.141 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

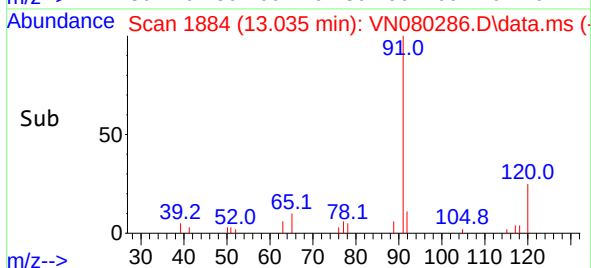
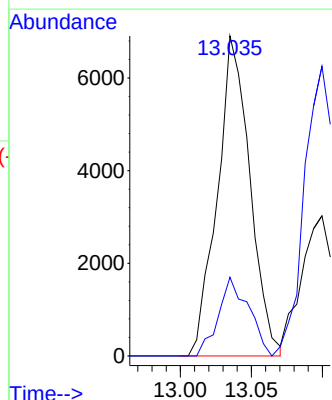
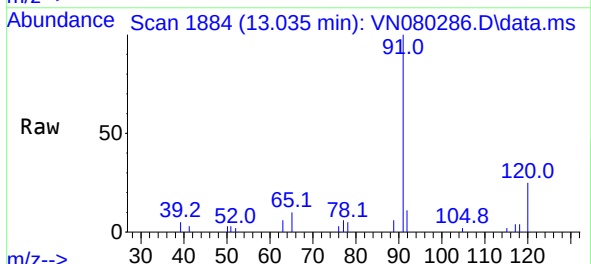
Instrument :
MSVOA_N
ClientSampleId :

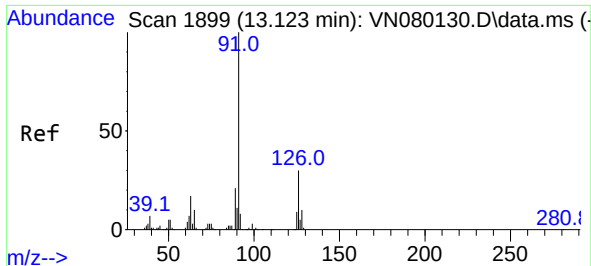
Tgt Ion: 75 Resp: 88102
Ion Ratio Lower Upper
75 100
77 1.2 84.5 253.5#



#78
n-propylbenzene
Concen: 0.840 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

Tgt Ion: 91 Resp: 11015
Ion Ratio Lower Upper
91 100
120 22.8 11.5 34.4





#79

2-Chlorotoluene

Concen: 0.825 ug/l

RT: 13.100 min Scan# 1899

Delta R.T. -0.024 min

Lab File: VN080286.D

Acq: 27 Nov 2023 19:34

Instrument :

MSVOA_N

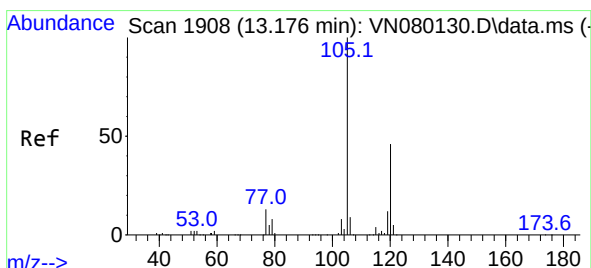
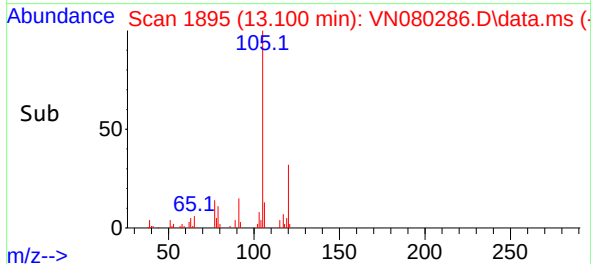
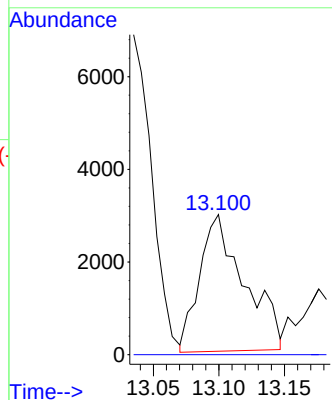
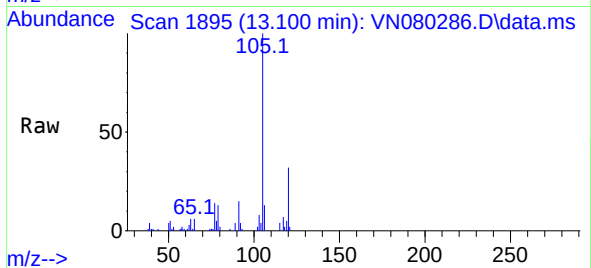
ClientSampleId :

Tgt Ion: 91 Resp: 7021

Ion Ratio Lower Upper

91 100

126 0.0 16.3 48.8#



#80

1,3,5-Trimethylbenzene

Concen: 1.746 ug/l

RT: 13.176 min Scan# 1908

Delta R.T. -0.000 min

Lab File: VN080286.D

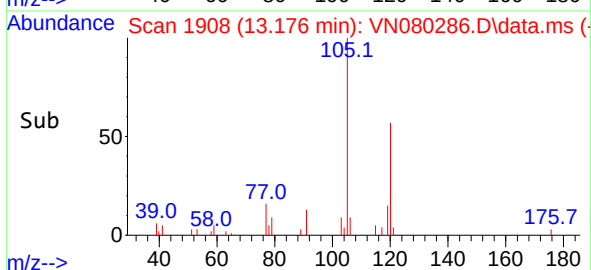
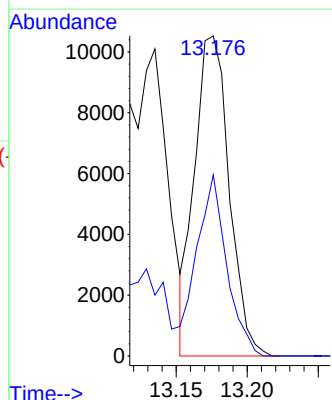
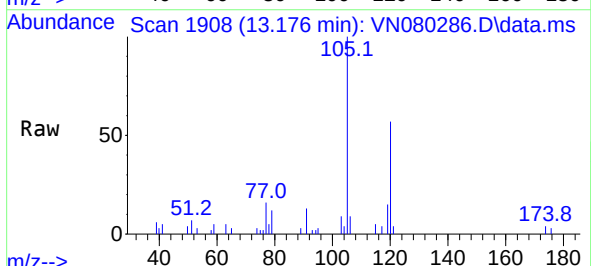
Acq: 27 Nov 2023 19:34

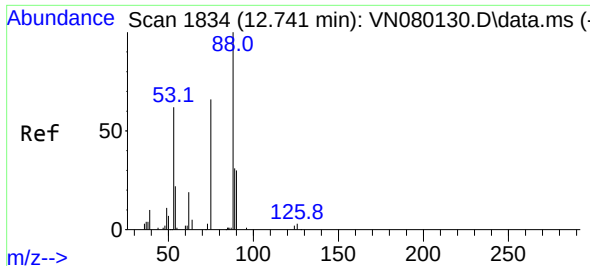
Tgt Ion:105 Resp: 17808

Ion Ratio Lower Upper

105 100

120 50.6 24.1 72.3

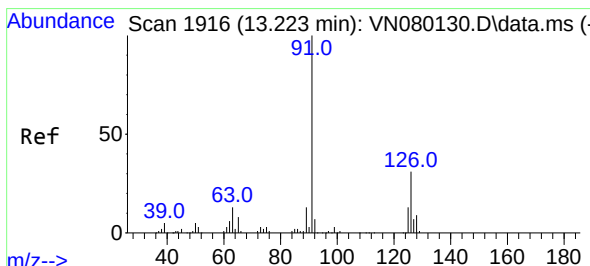
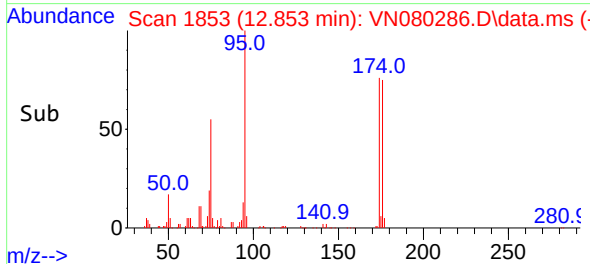
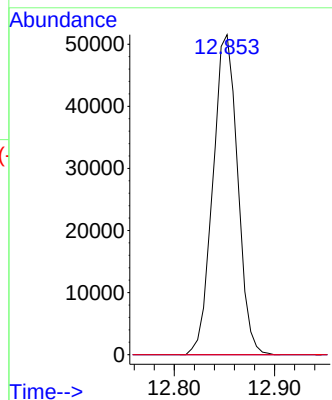
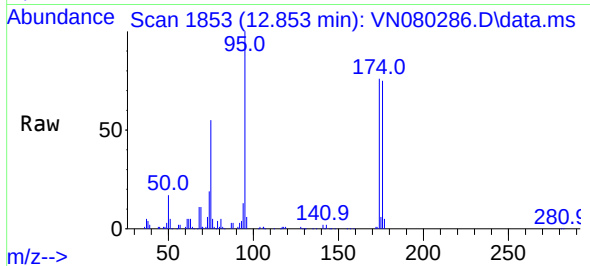




#81
trans-1,4-Dichloro-2-butene
Concen: 80.550 ug/l
RT: 12.853 min Scan# 11
Delta R.T. 0.111 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

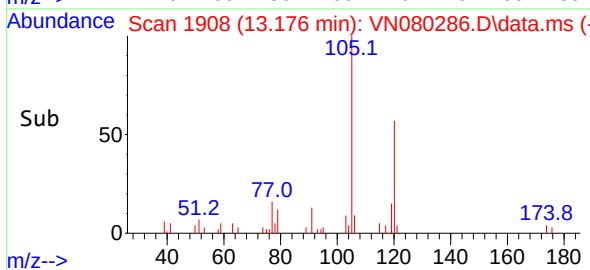
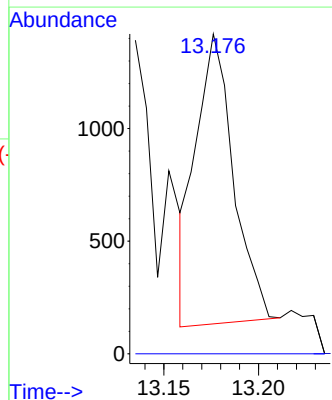
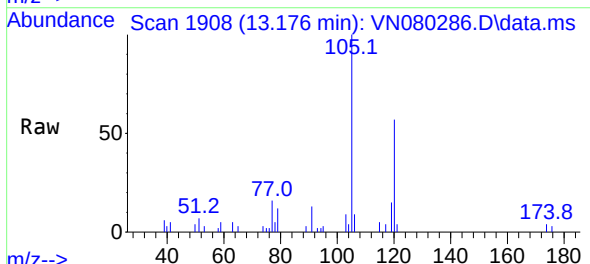
Instrument :
MSVOA_N
ClientSampleId :

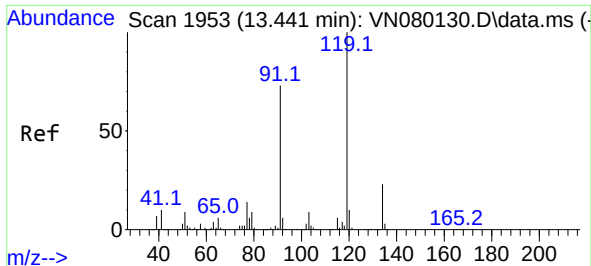
Tgt Ion: 75 Resp: 88102
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#



#82
4-Chlorotoluene
Concen: 0.204 ug/l
RT: 13.176 min Scan# 1908
Delta R.T. -0.047 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

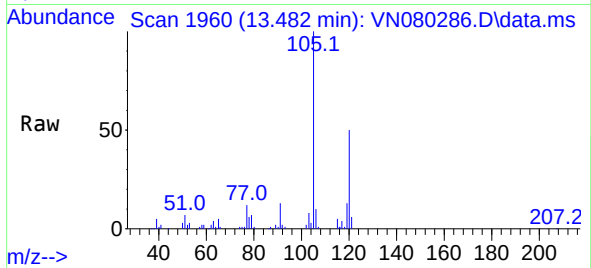
Tgt Ion: 91 Resp: 1778
Ion Ratio Lower Upper
91 100
126 0.0 16.7 50.0#



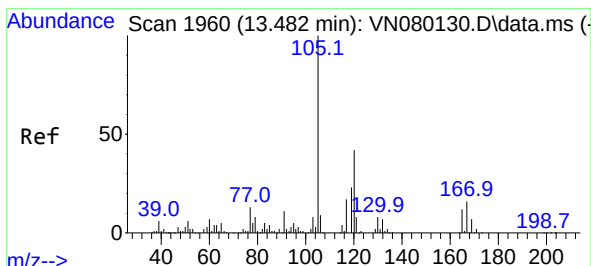
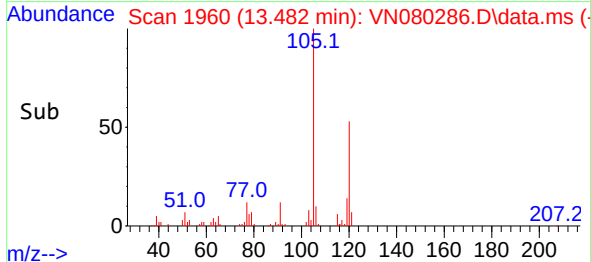
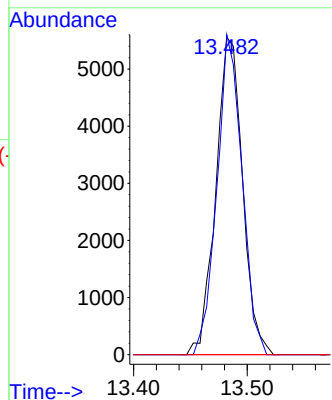


#83
tert-Butylbenzene
Concen: 1.112 ug/l
RT: 13.482 min Scan# 1953
Delta R.T. 0.041 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

Instrument :
MSVOA_N
ClientSampleId :

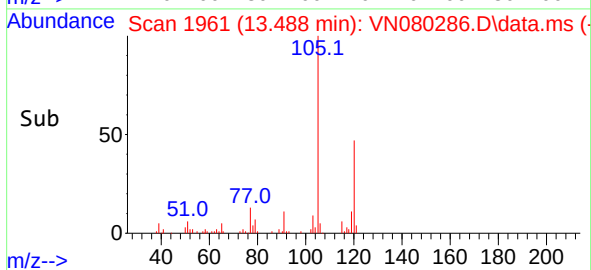
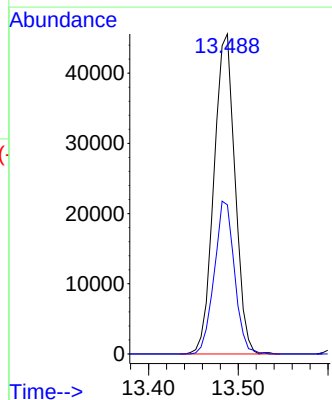
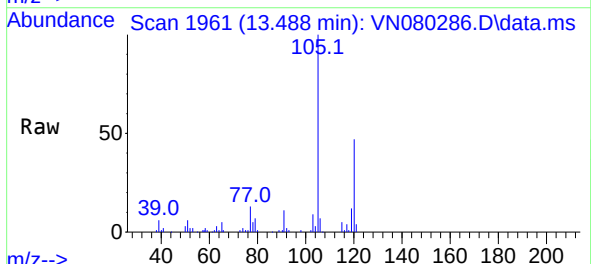


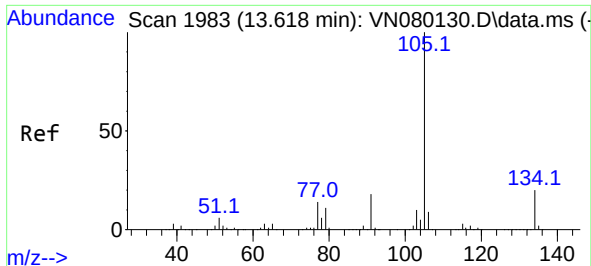
Tgt Ion:119 Resp: 9095
Ion Ratio Lower Upper
119 100
91 94.5 33.9 101.7
134 0.0 13.2 39.6#



#84
1,2,4-Trimethylbenzene
Concen: 7.398 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.006 min
Lab File: VN080286.D
Acq: 27 Nov 2023 19:34

Tgt Ion:105 Resp: 74318
Ion Ratio Lower Upper
105 100
120 45.9 22.0 66.0





#85

sec-Butylbenzene

Concen: 0.435 ug/l

RT: 13.617 min Scan# 1983

Delta R.T. -0.000 min

Lab File: VN080286.D

Acq: 27 Nov 2023 19:34

Instrument :

MSVOA_N

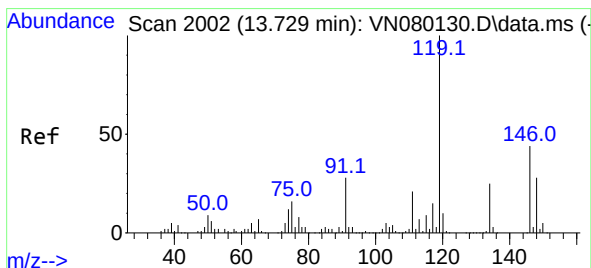
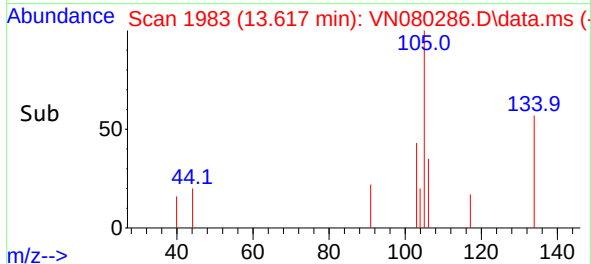
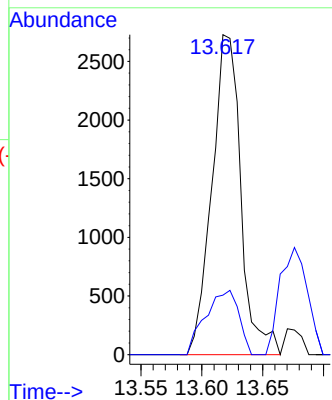
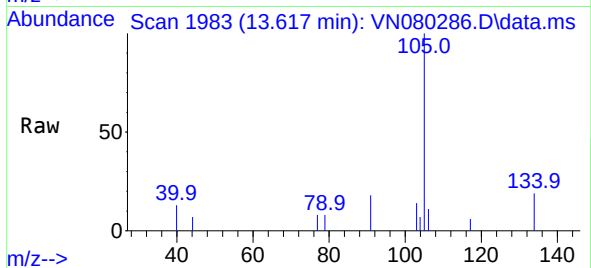
ClientSampleId :

Tgt Ion:105 Resp: 4507

Ion Ratio Lower Upper

105 100

134 23.1 9.8 29.3



#86

p-Isopropyltoluene

Concen: 0.256 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.006 min

Lab File: VN080286.D

Acq: 27 Nov 2023 19:34

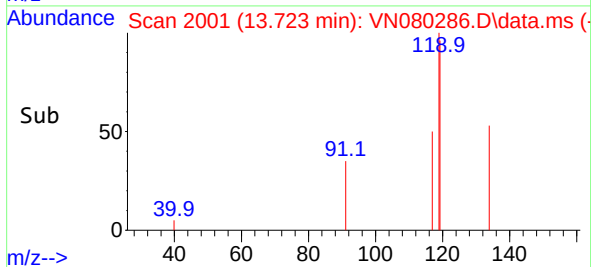
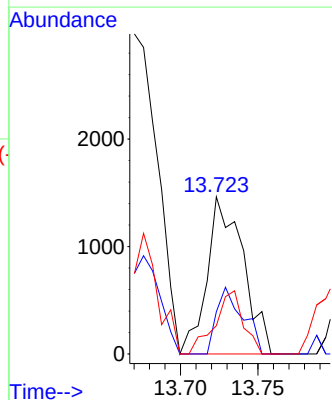
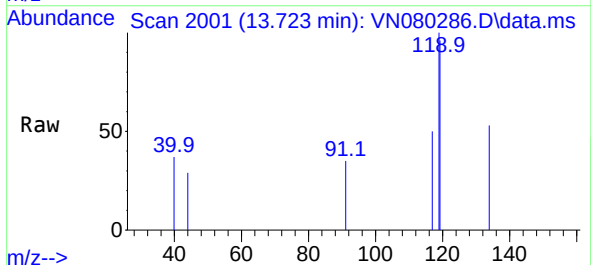
Tgt Ion:119 Resp: 2366

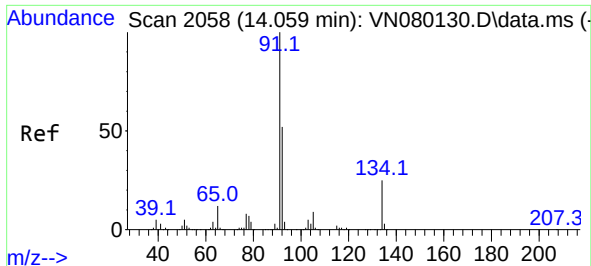
Ion Ratio Lower Upper

119 100

134 31.0 12.6 37.8

91 31.8 12.4 37.2





#89

n-Butylbenzene

Concen: 0.522 ug/l

RT: 14.064 min Scan# 2058

Delta R.T. 0.006 min

Lab File: VN080286.D

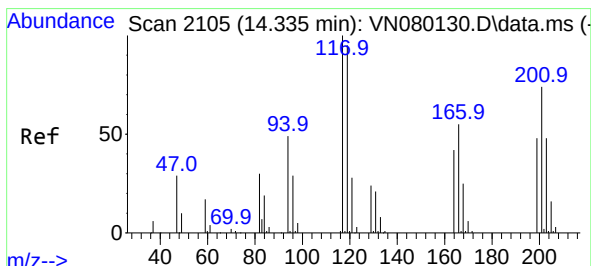
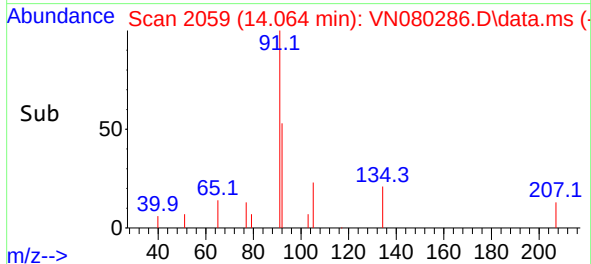
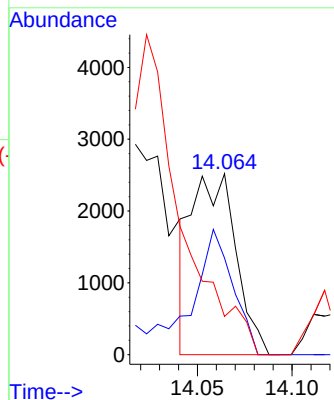
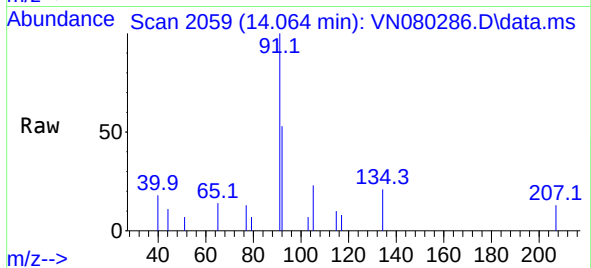
Acq: 27 Nov 2023 19:34

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 91	Resp: 4036
Ion Ratio	Lower Upper
91	100
92	64.8 26.4 79.0
134	0.0 12.6 37.6#



#90

Hexachloroethane

Concen: 1.311 ug/l

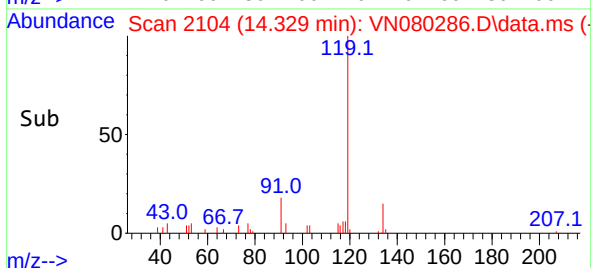
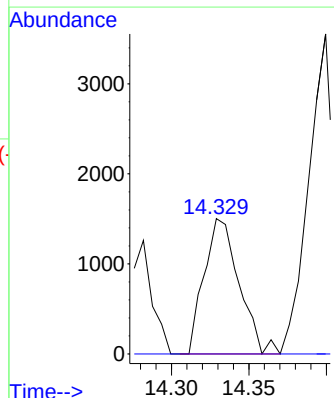
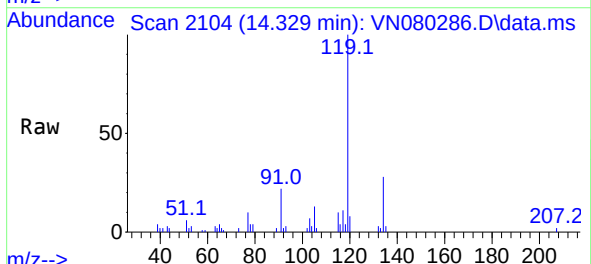
RT: 14.329 min Scan# 2104

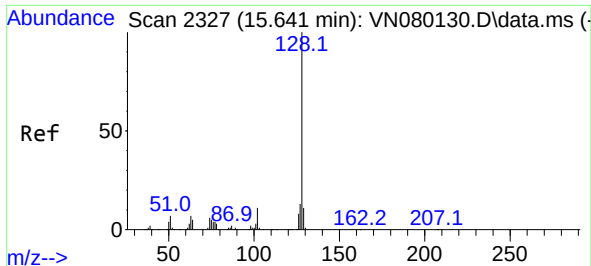
Delta R.T. -0.006 min

Lab File: VN080286.D

Acq: 27 Nov 2023 19:34

Tgt Ion: 117	Resp: 2363
Ion Ratio	Lower Upper
117	100
201	0.0 29.3 88.0#





#95

Naphthalene

Concen: 2.505 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

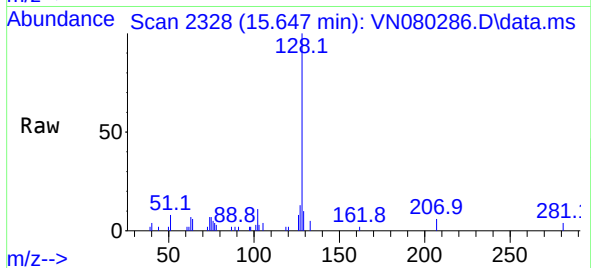
Lab File: VN080286.D

Acq: 27 Nov 2023 19:34

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:128 Resp: 21522

Ion	Ratio	Lower	Upper
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128	100		
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127	13.8	10.0	15.0
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129	11.3	8.7	13.1
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