

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052124\
 Data File : VN082276.D
 Acq On : 22 May 2024 06:21
 Operator : JC\MD
 Sample : P2494-16 40X
 Misc : 4.99g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 16

Quant Time: May 22 07:42:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051524W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 16 05:21:06 2024
 Response via : Initial Calibration

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

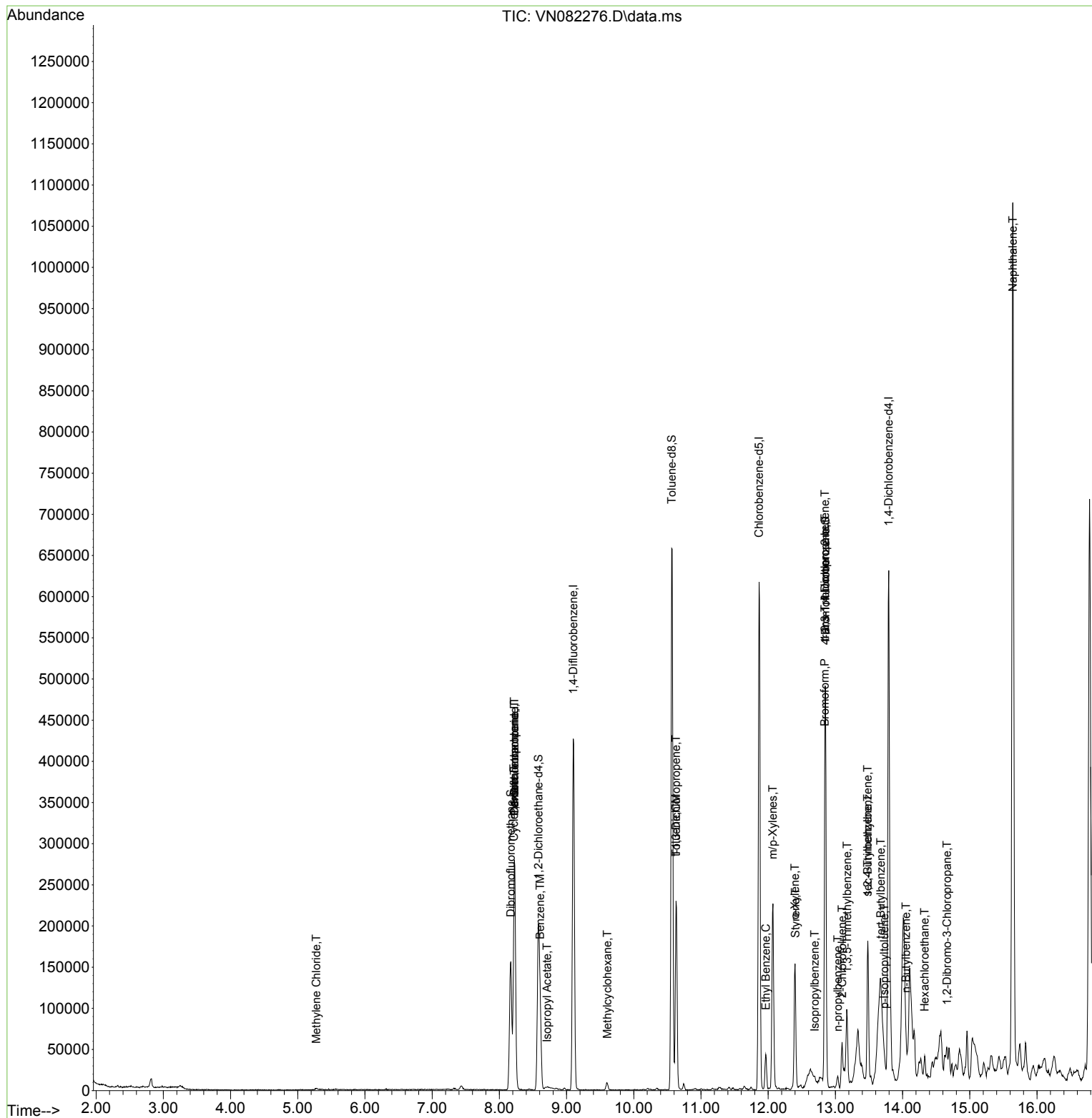
Internal Standards						
1) Pentafluorobenzene	8.224	168	198784	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	346099	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	328985	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	151886	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	156587	49.887	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.780%			
35) Dibromofluoromethane	8.171	113	108356	50.894	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.780%			
50) Toluene-d8	10.565	98	434680	53.253	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.500%			
62) 4-Bromofluorobenzene	12.853	95	162657	55.830	ug/l	0.00
Spiked Amount 50.000	Range 64 - 133		Recovery = 111.660%			
Target Compounds						
					Qvalue	
20) Methylene Chloride	5.277	84	1131	0.435	ug/l #	80
31) Cyclohexane	8.218	56	7650	1.526	ug/l #	50
36) 1,1-Dichloropropene	8.224	75	18125	5.076	ug/l #	49
38) Carbon Tetrachloride	8.224	117	20790	5.744	ug/l #	16
39) Methylcyclohexane	9.606	83	3361	0.859	ug/l #	75
40) Benzene	8.606	78	82283	7.728	ug/l	100
43) Isopropyl Acetate	8.712	43	6118	0.864	ug/l #	52
52) Toluene	10.629	92	96261	15.064	ug/l	99
53) t-1,3-Dichloropropene	10.629	75	1318	0.335	ug/l #	1
67) Ethyl Benzene	11.965	91	30309	2.331	ug/l	91
68) m/p-Xylenes	12.070	106	63508	13.328	ug/l	91
69) o-Xylene	12.400	106	38675	8.379	ug/l	89
70) Styrene	12.406	104	4195	0.547	ug/l #	1
71) Bromoform	12.841	173	664	1.045	ug/l #	28
73) Isopropylbenzene	12.694	105	3808	0.316	ug/l	92
76) 1,2,3-Trichloropropane	12.847	75	95428	29.851	ug/l #	1
78) n-propylbenzene	13.035	91	9893	0.692	ug/l	93
79) 2-Chlorotoluene	13.100	91	4595	0.512	ug/l #	40
80) 1,3,5-Trimethylbenzene	13.176	105	39684	4.067	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.847	75	95428	69.820	ug/l #	12
83) tert-Butylbenzene	13.676	119	4597	0.539	ug/l	74
84) 1,2,4-Trimethylbenzene	13.482	105	93235	9.340	ug/l	99
85) sec-Butylbenzene	13.482	105	93235	7.880	ug/l #	56
86) p-Isopropyltoluene	13.729	119	3153	0.328	ug/l #	73
89) n-Butylbenzene	14.053	91	2819	0.326	ug/l #	79
90) Hexachloroethane	14.329	117	1590	0.893	ug/l #	17
92) 1,2-Dibromo-3-Chloropr...	14.664	75	562	0.786	ug/l #	2
95) Naphthalene	15.641	128	935090	107.945	ug/l	99

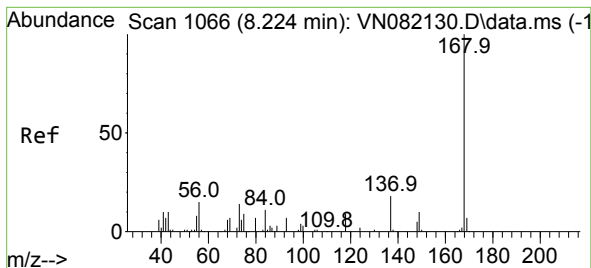
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052124\
Data File : VN082276.D
Acq On : 22 May 2024 06:21
Operator : JC\MD
Sample : P2494-16 40X
Misc : 4.99g/10mL/100uL/5.00mL/MSVOA_N/MEOH
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
16

Quant Time: May 22 07:42:34 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051524W.M
Quant Title : SW846 8260
QLast Update : Thu May 16 05:21:06 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN082276.D

Acq: 22 May 2024 06:21

Instrument :

MSVOA_N

ClientSampleId :

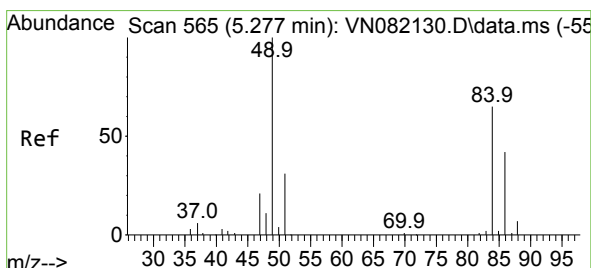
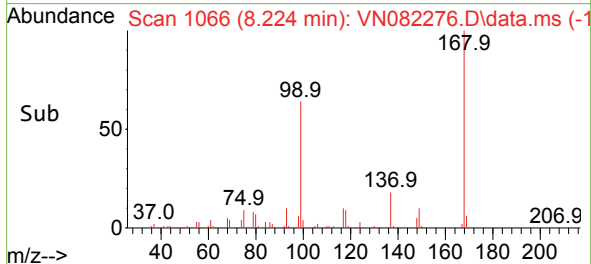
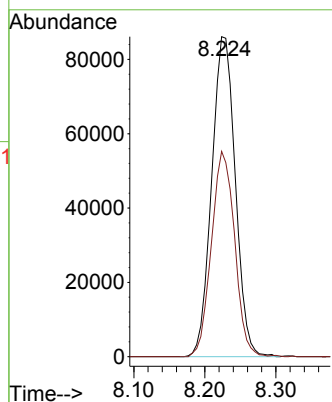
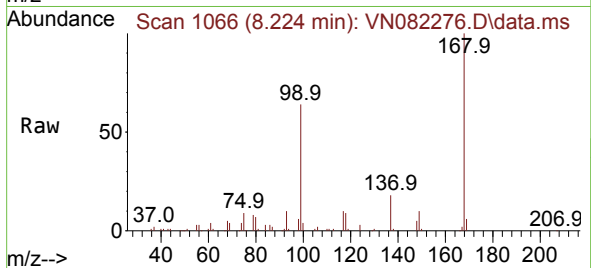
16

Tgt Ion:168 Resp: 198784

Ion Ratio Lower Upper

168 100

99 64.1 48.2 72.4



#20

Methylene Chloride

Concen: 0.435 ug/l

RT: 5.277 min Scan# 565

Delta R.T. -0.000 min

Lab File: VN082276.D

Acq: 22 May 2024 06:21

Tgt Ion: 84 Resp: 1131

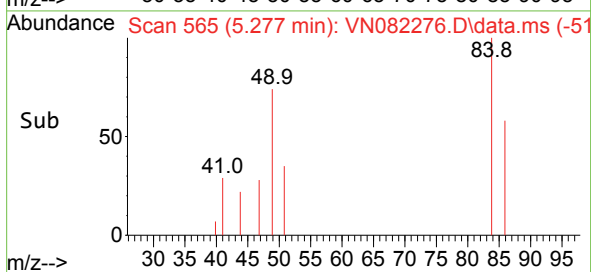
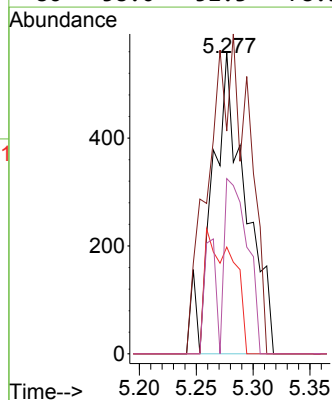
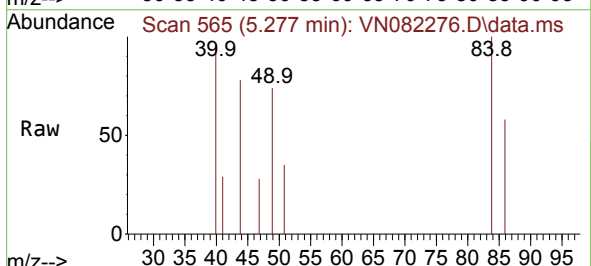
Ion Ratio Lower Upper

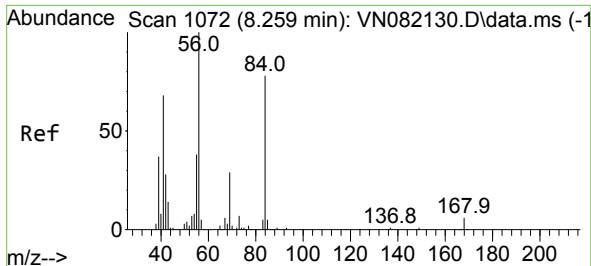
84 100

49 73.8 84.9 127.3#

51 35.4 27.0 40.6

86 58.0 52.3 78.5

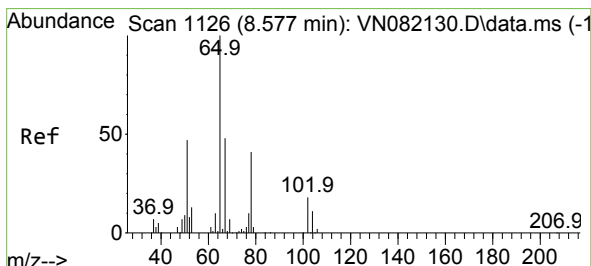
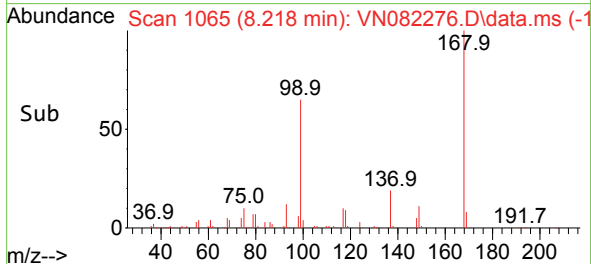
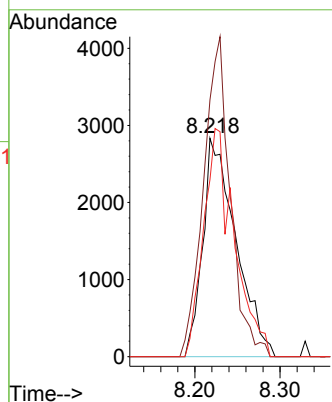
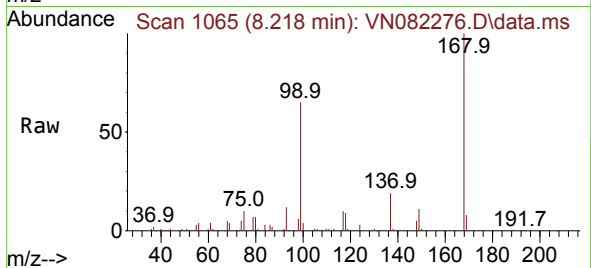




#31
Cyclohexane
Concen: 1.526 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.041 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

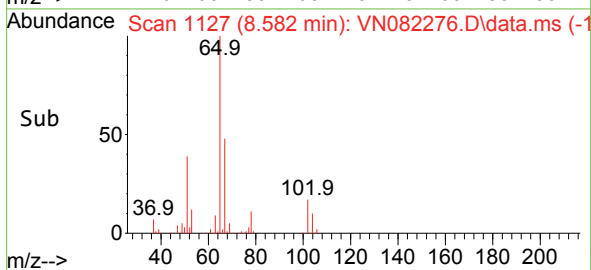
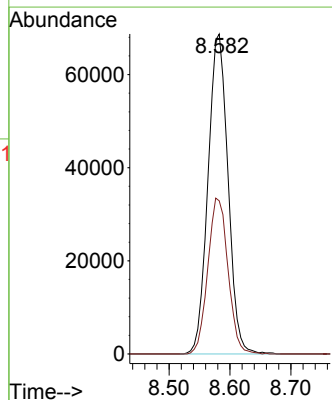
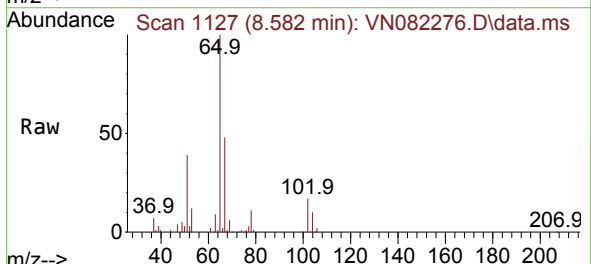
Instrument :
MSVOA_N
ClientSampleId :
16

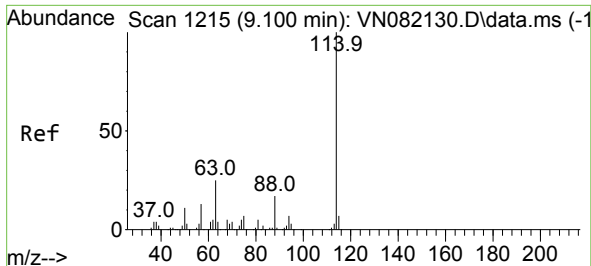
Tgt Ion: 56 Resp: 7650
Ion Ratio Lower Upper
56 100
69 117.6 24.4 36.6#
84 81.0 77.0 115.4



#33
1,2-Dichloroethane-d4
Concen: 49.887 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

Tgt Ion: 65 Resp: 156587
Ion Ratio Lower Upper
65 100
67 49.3 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN082276.D

Acq: 22 May 2024 06:21

Instrument :

MSVOA_N

ClientSampleId :

16

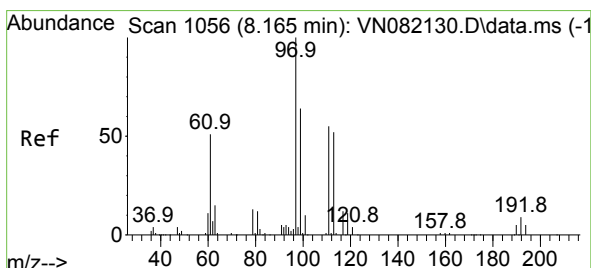
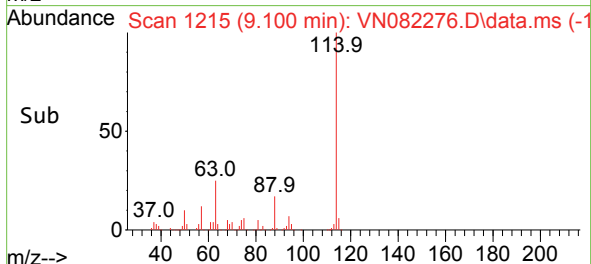
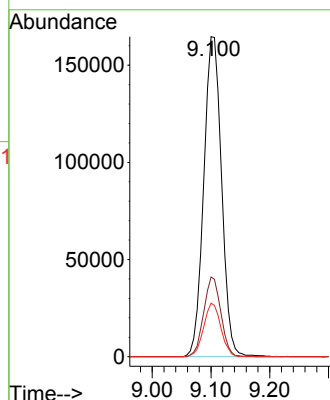
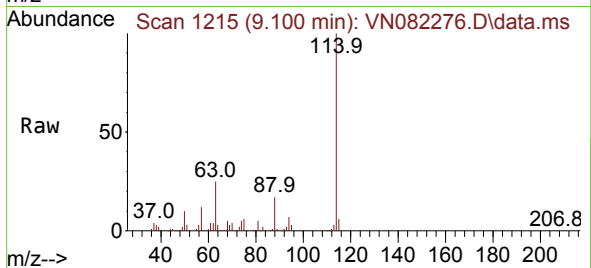
Tgt Ion:114 Resp: 346099

Ion Ratio Lower Upper

114 100

63 24.9 0.0 41.0

88 16.7 0.0 31.4



#35

Dibromofluoromethane

Concen: 50.894 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN082276.D

Acq: 22 May 2024 06:21

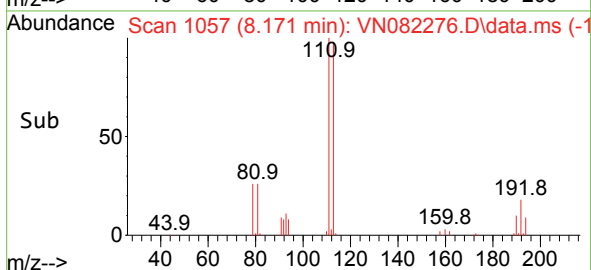
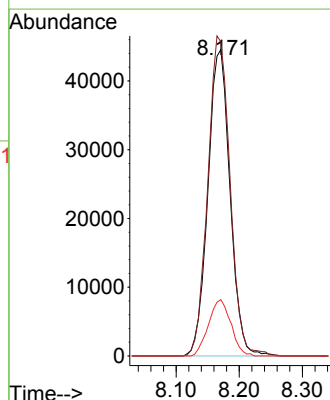
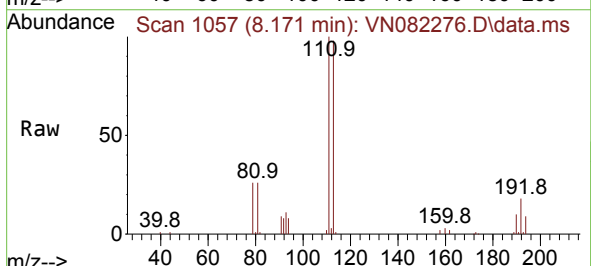
Tgt Ion:113 Resp: 108356

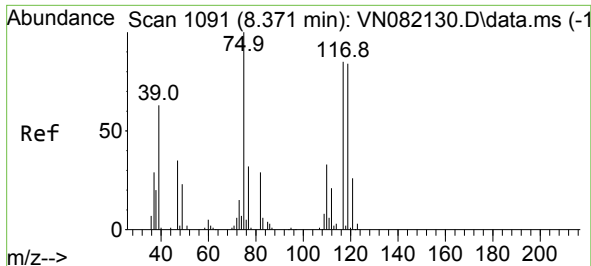
Ion Ratio Lower Upper

113 100

111 105.3 83.4 125.2

192 18.6 14.0 21.0





#36

1,1-Dichloropropene

Concen: 5.076 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN082276.D

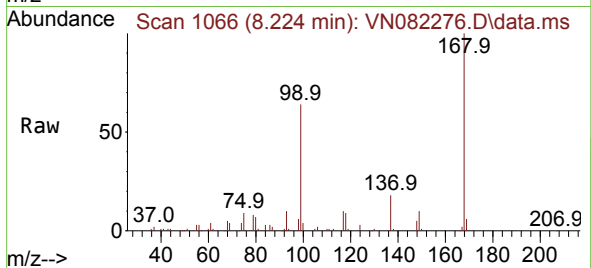
Acq: 22 May 2024 06:21

Instrument :

MSVOA_N

ClientSampleId :

16



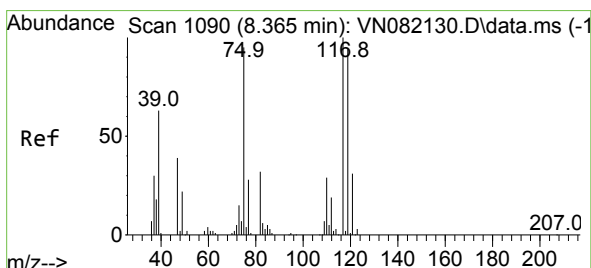
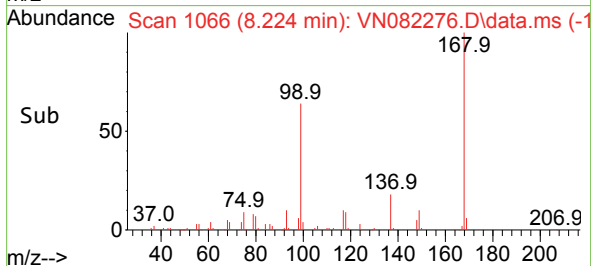
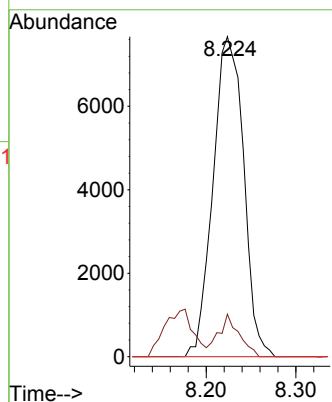
Tgt Ion: 75 Resp: 18125

Ion Ratio Lower Upper

75 100

110 9.0 17.8 53.5#

77 0.0 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.744 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN082276.D

Acq: 22 May 2024 06:21

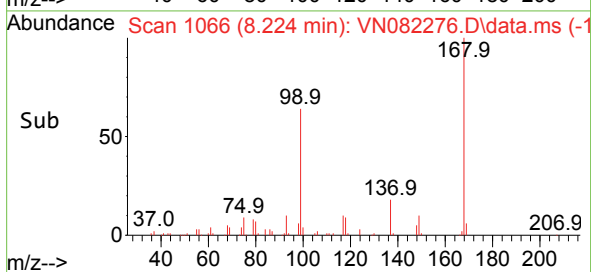
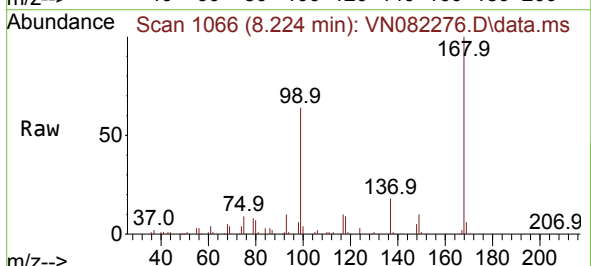
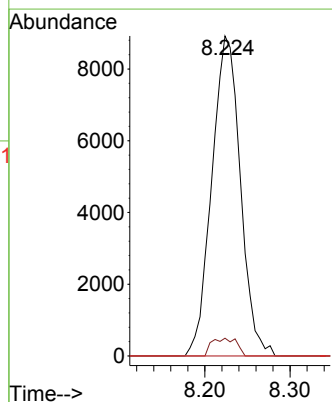
Tgt Ion: 117 Resp: 20790

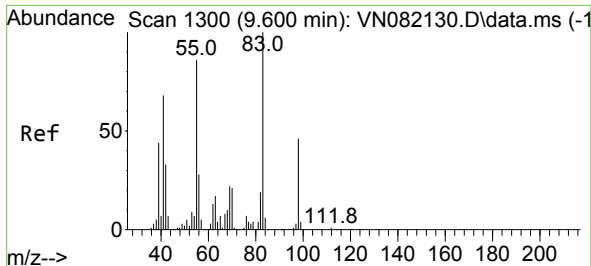
Ion Ratio Lower Upper

117 100

119 5.5 76.5 114.7#

121 0.0 23.9 35.9#





#39

Methylcyclohexane

Concen: 0.859 ug/l

RT: 9.606 min Scan# 1130

Delta R.T. 0.006 min

Lab File: VN082276.D

Acq: 22 May 2024 06:21

Instrument :

MSVOA_N

ClientSampleId :

16

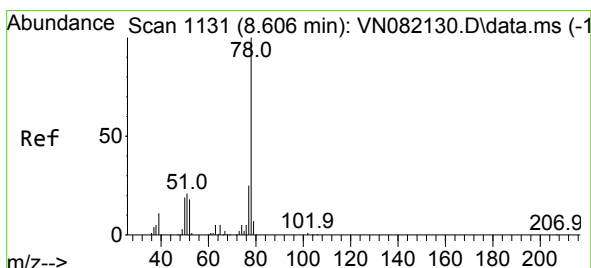
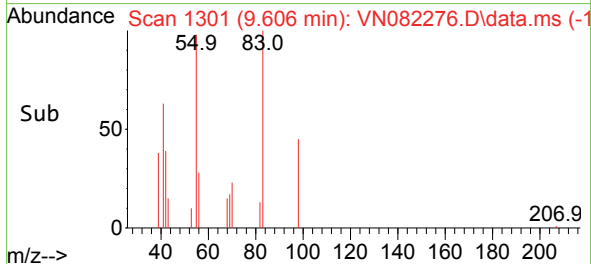
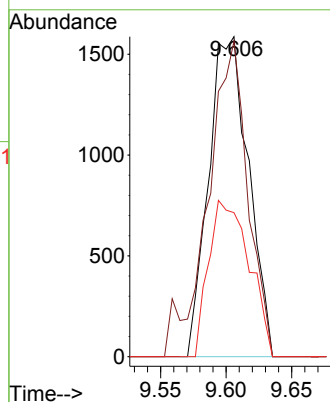
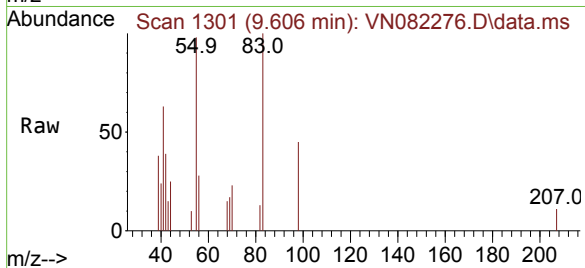
Tgt Ion: 83 Resp: 3361

Ion Ratio Lower Upper

83 100

55 98.5 53.0 79.6#

98 45.0 37.1 55.7



#40

Benzene

Concen: 7.728 ug/l

RT: 8.606 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VN082276.D

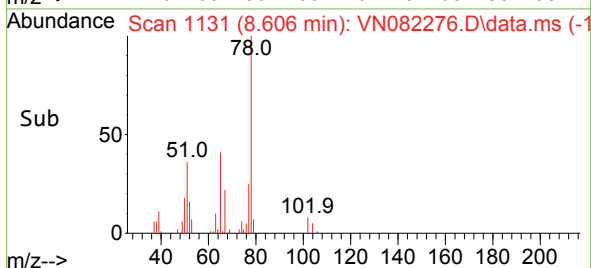
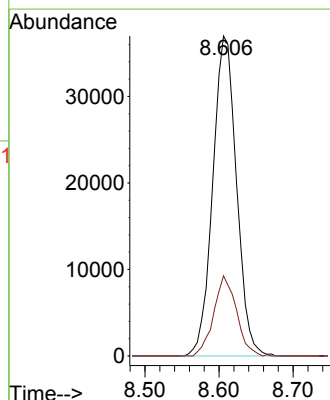
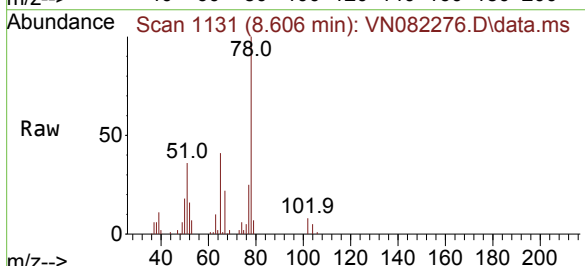
Acq: 22 May 2024 06:21

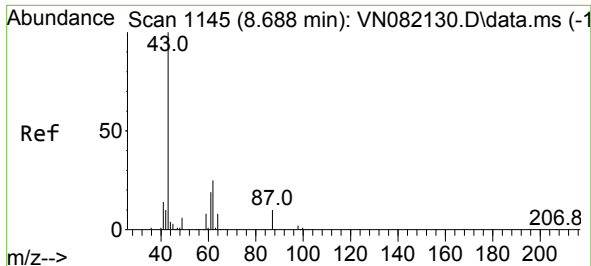
Tgt Ion: 78 Resp: 82283

Ion Ratio Lower Upper

78 100

77 25.1 20.0 30.0

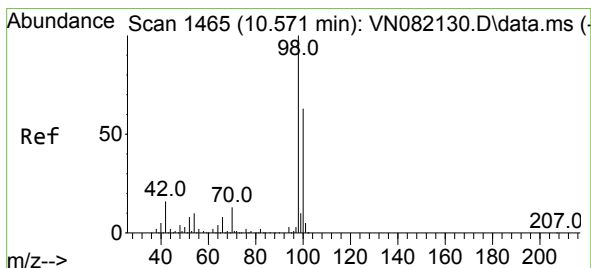
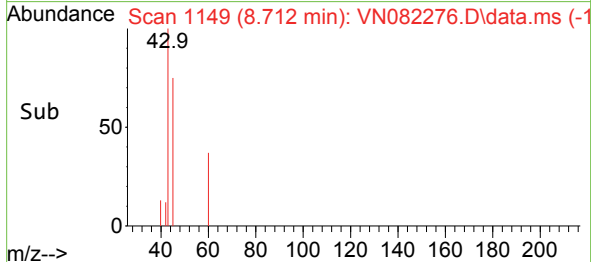
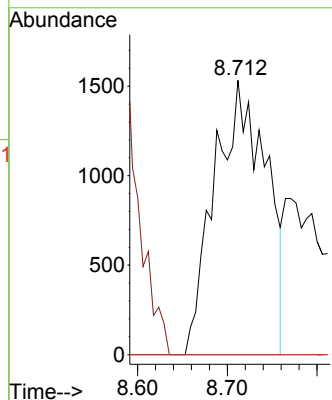
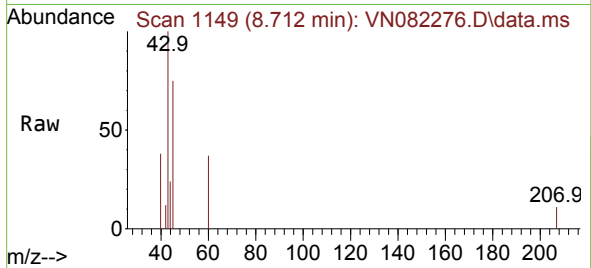




#43
Isopropyl Acetate
Concen: 0.864 ug/l
RT: 8.712 min Scan# 1149
Delta R.T. 0.023 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

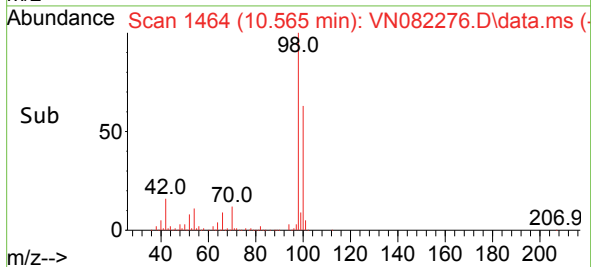
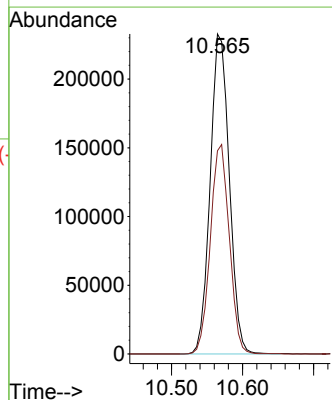
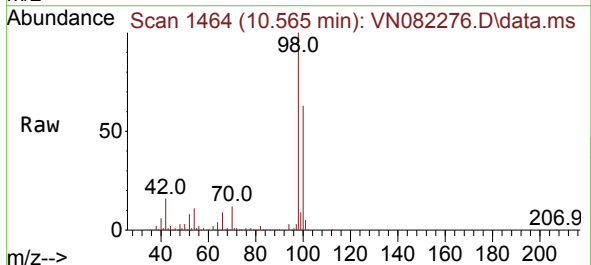
Instrument :
MSVOA_N
ClientSampleId :
16

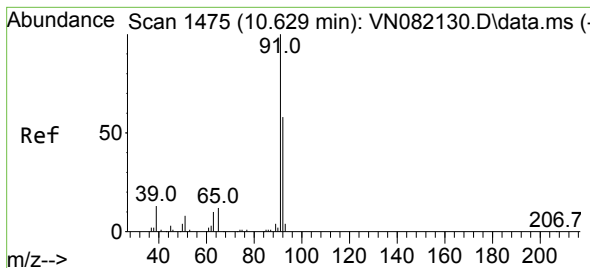
Tgt Ion: 43 Resp: 6118
Ion Ratio Lower Upper
43 100
61 0.0 22.8 34.2#
87 0.0 12.0 18.0#



#50
Toluene-d8
Concen: 53.253 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.006 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

Tgt Ion: 98 Resp: 434680
Ion Ratio Lower Upper
98 100
100 64.9 51.8 77.6





#52

Toluene

Concen: 15.064 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN082276.D

Acq: 22 May 2024 06:21

Instrument :

MSVOA_N

ClientSampleId :

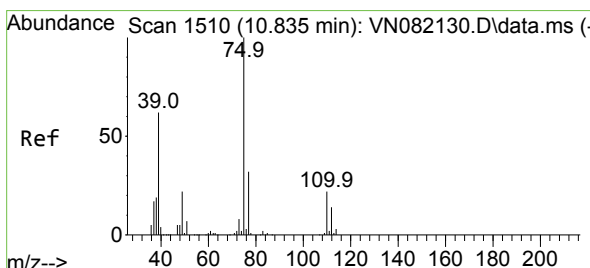
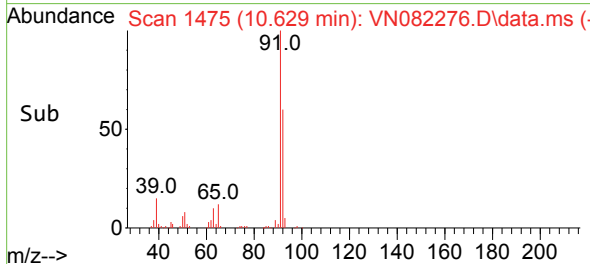
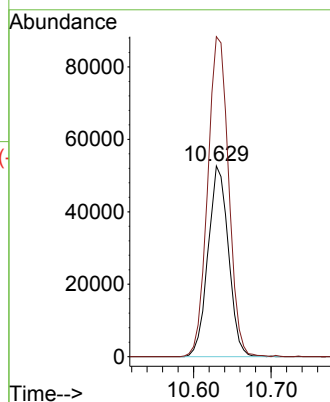
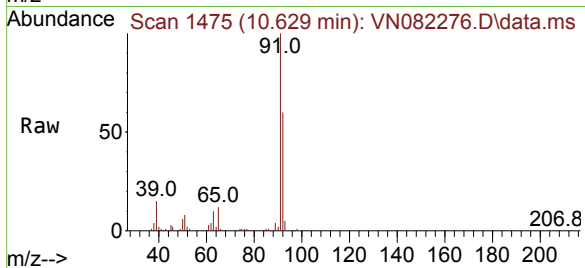
16

Tgt Ion: 92 Resp: 96261

Ion Ratio Lower Upper

92 100

91 172.1 136.7 205.1



#53

t-1,3-Dichloropropene

Concen: 0.335 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.206 min

Lab File: VN082276.D

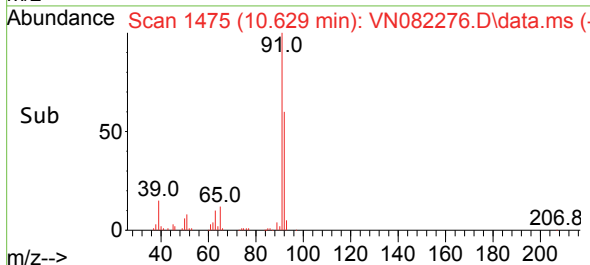
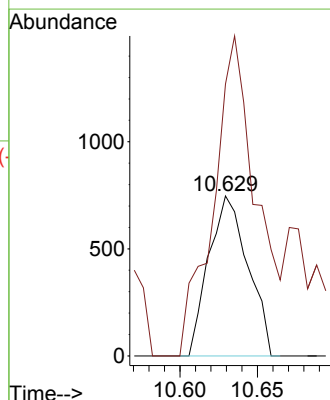
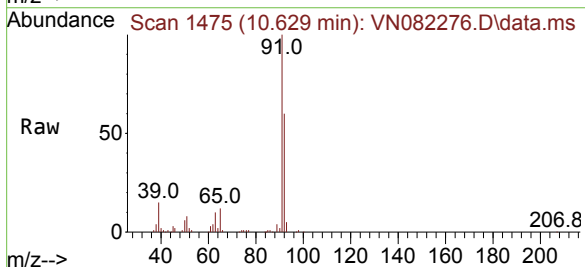
Acq: 22 May 2024 06:21

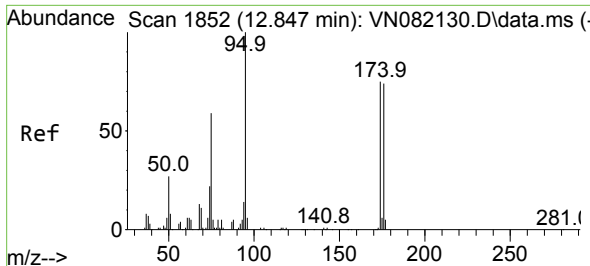
Tgt Ion: 75 Resp: 1318

Ion Ratio Lower Upper

75 100

77 169.9 25.4 38.0#

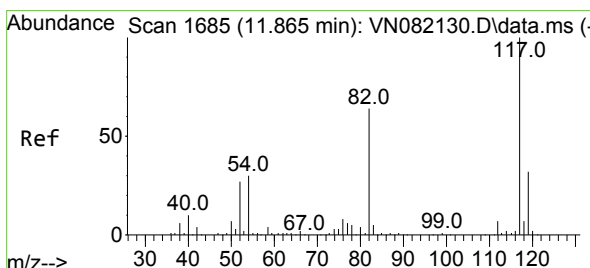
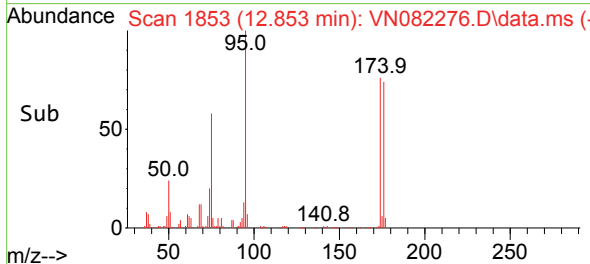
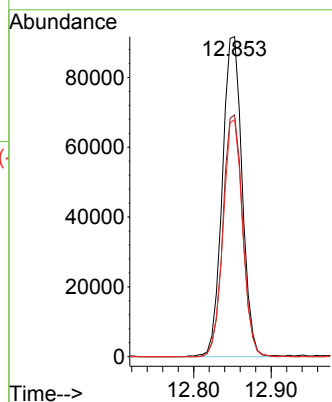
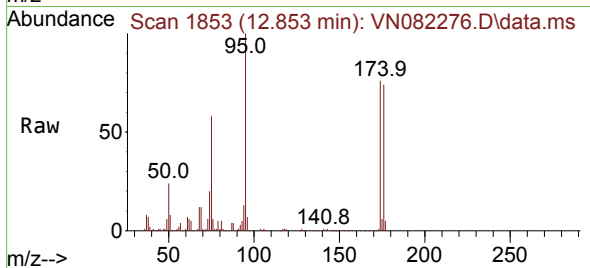




#62
4-Bromofluorobenzene
Concen: 55.830 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

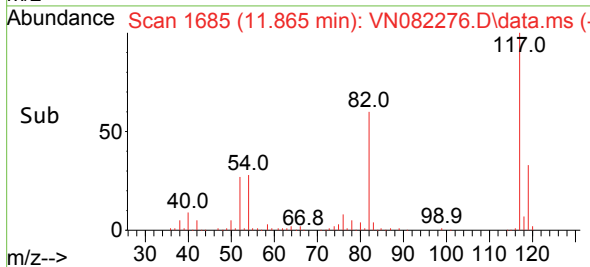
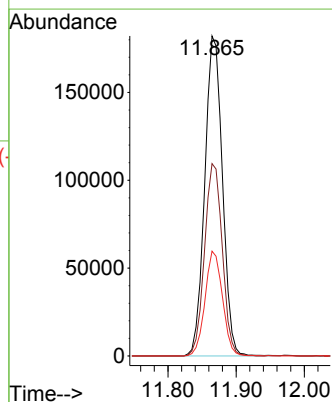
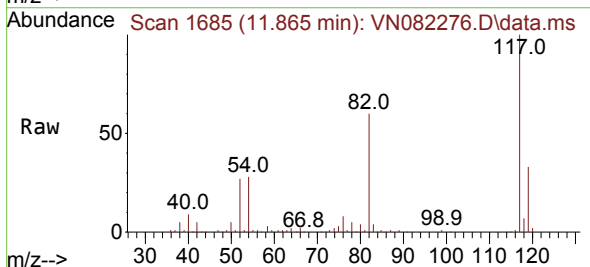
Instrument :
MSVOA_N
ClientSampleId :
16

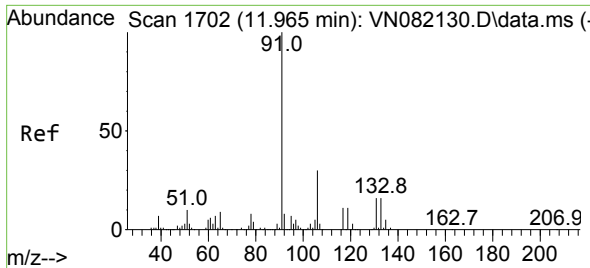
Tgt Ion: 95 Resp: 162657
Ion Ratio Lower Upper
95 100
174 75.0 0.0 160.6
176 72.8 0.0 152.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

Tgt Ion: 117 Resp: 328985
Ion Ratio Lower Upper
117 100
82 60.1 44.6 66.8
119 32.8 25.9 38.9

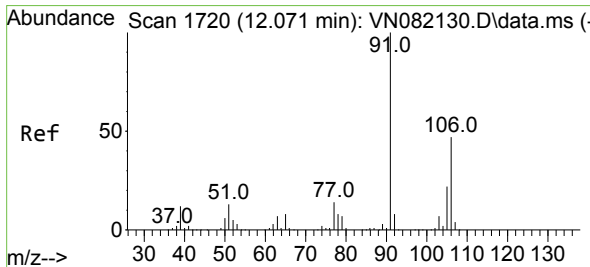
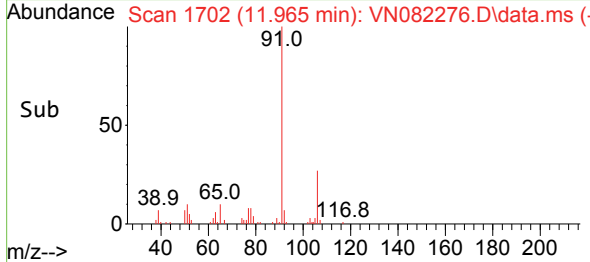
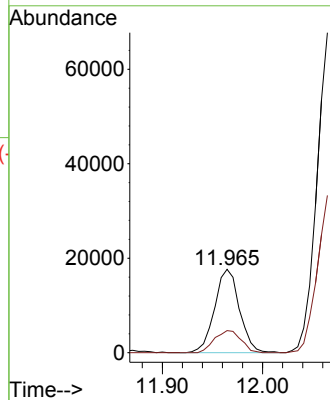
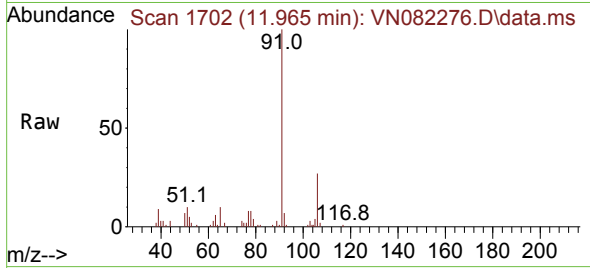




#67
Ethyl Benzene
Concen: 2.331 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.000 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

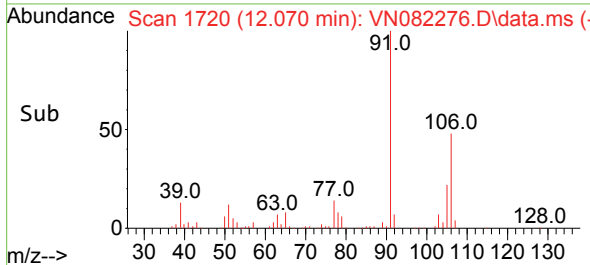
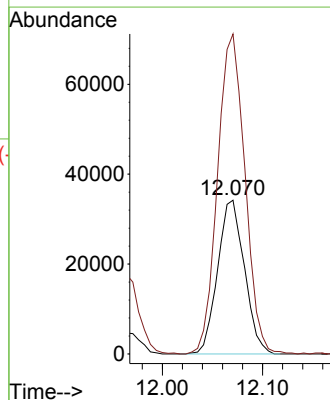
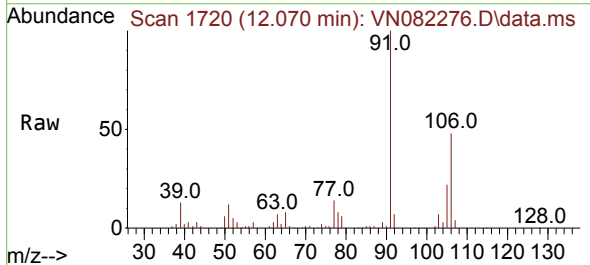
Instrument :
MSVOA_N
ClientSampleId :
16

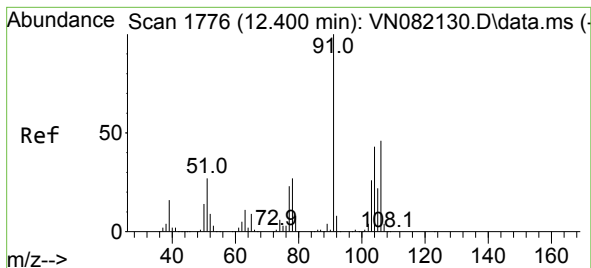
Tgt Ion: 91 Resp: 30309
Ion Ratio Lower Upper
91 100
106 26.6 25.3 37.9



#68
m/p-Xylenes
Concen: 13.328 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

Tgt Ion: 106 Resp: 63508
Ion Ratio Lower Upper
106 100
91 212.8 159.4 239.0





#69

o-Xylene

Concen: 8.379 ug/l

RT: 12.400 min Scan# 1776

Delta R.T. -0.000 min

Lab File: VN082276.D

Acq: 22 May 2024 06:21

Instrument :

MSVOA_N

ClientSampleId :

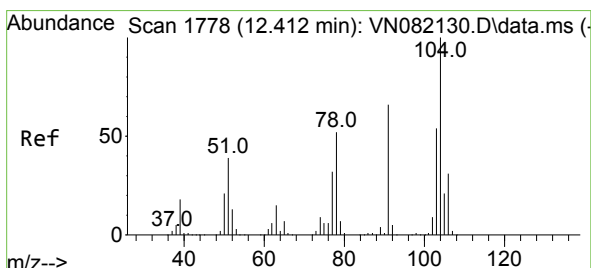
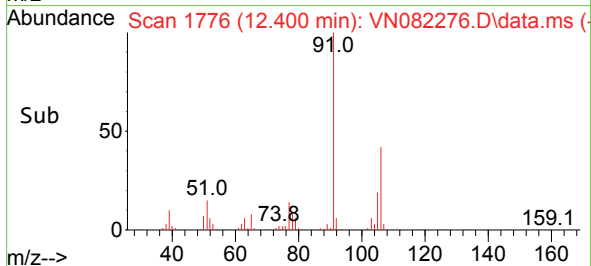
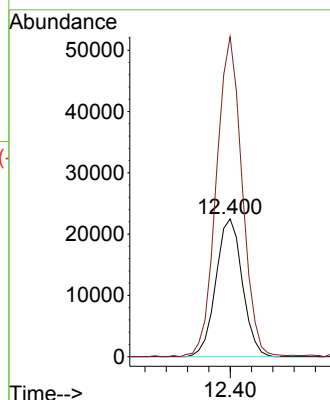
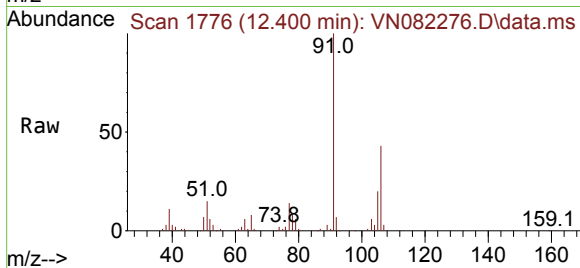
16

Tgt Ion:106 Resp: 38675

Ion Ratio Lower Upper

106 100

91 226.6 104.7 314.1



#70

Styrene

Concen: 0.547 ug/l

RT: 12.406 min Scan# 1777

Delta R.T. -0.006 min

Lab File: VN082276.D

Acq: 22 May 2024 06:21

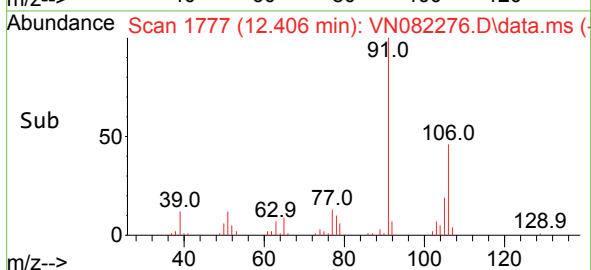
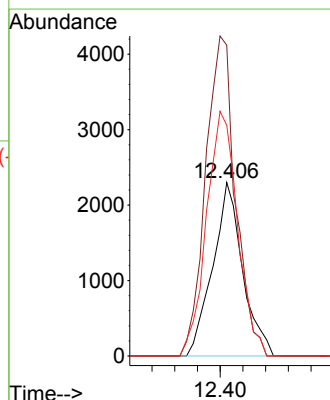
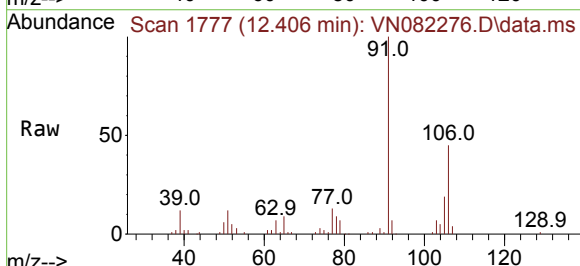
Tgt Ion:104 Resp: 4195

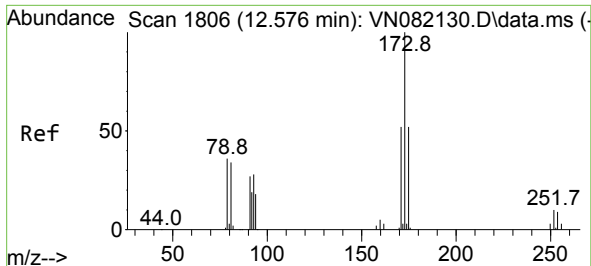
Ion Ratio Lower Upper

104 100

78 184.2 38.6 58.0#

103 147.4 43.8 65.6#

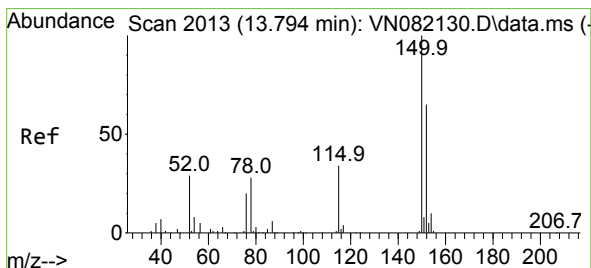
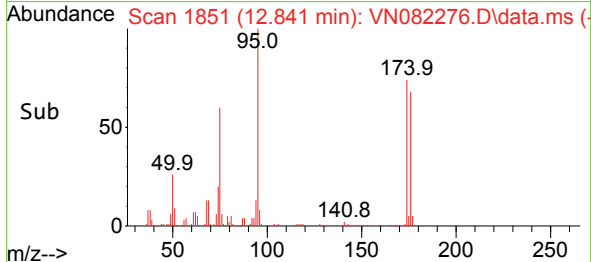
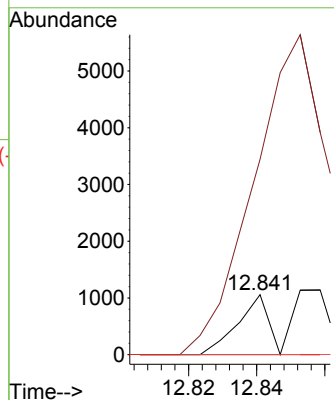
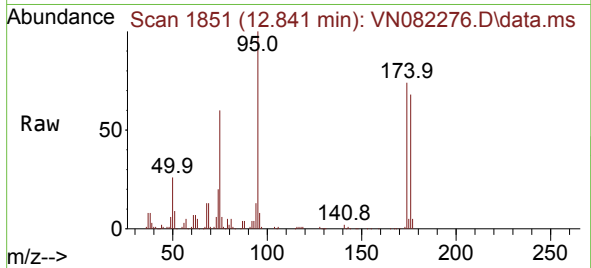




#71
Bromoform
Concen: 1.045 ug/l
RT: 12.841 min Scan# 1806
Delta R.T. 0.265 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

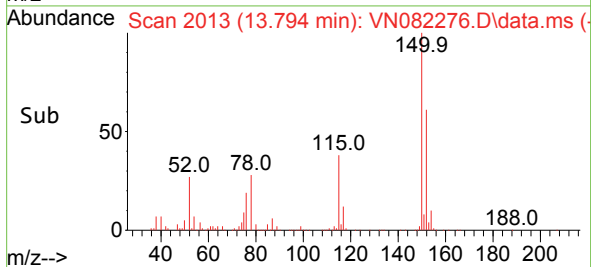
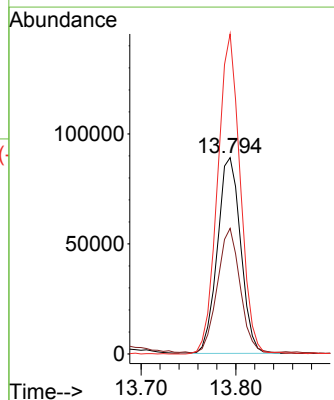
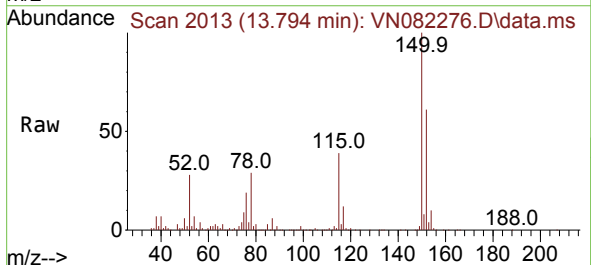
Instrument :
MSVOA_N
ClientSampleId :
16

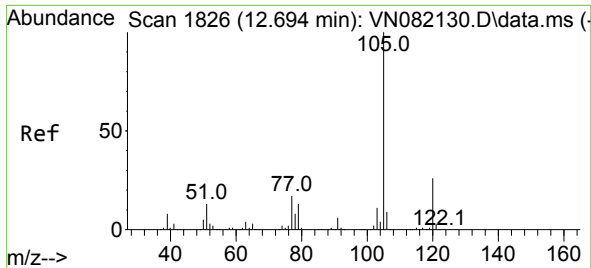
Tgt Ion:173 Resp: 664
Ion Ratio Lower Upper
173 100
175 0.0 24.6 74.0#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2013
Delta R.T. -0.000 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

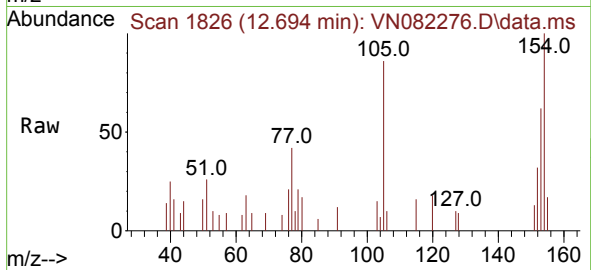
Tgt Ion:152 Resp: 151886
Ion Ratio Lower Upper
152 100
115 62.1 30.4 91.3
150 159.0 0.0 353.2



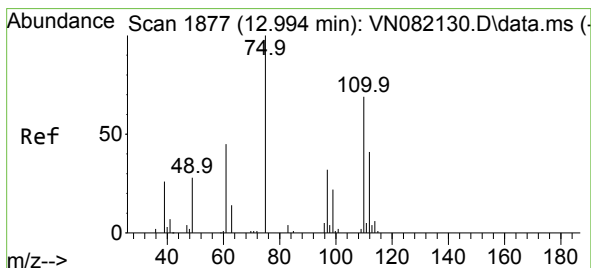
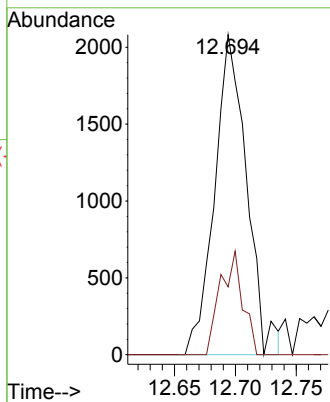
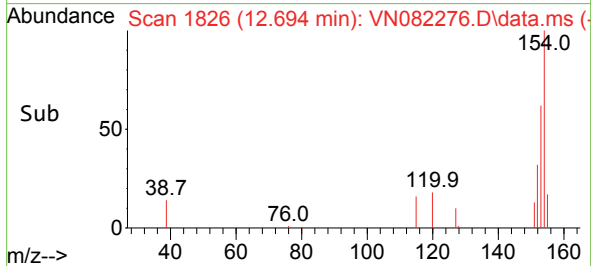


#73
Isopropylbenzene
Concen: 0.316 ug/l
RT: 12.694 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

Instrument :
MSVOA_N
ClientSampleId :
16

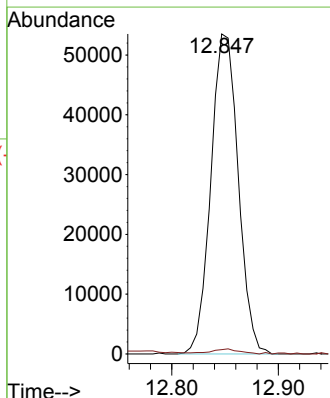
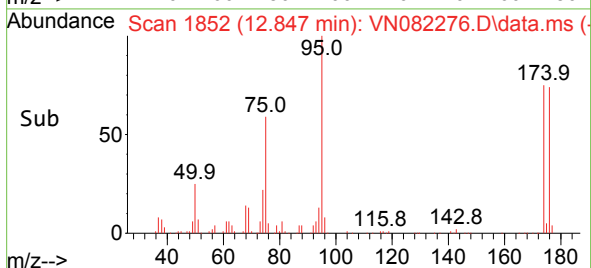
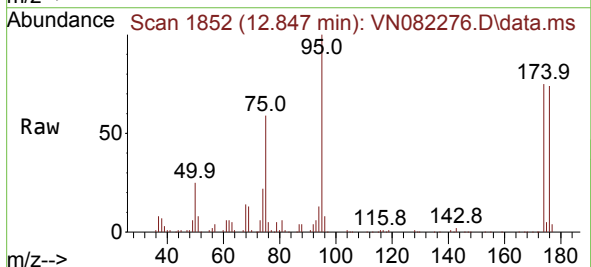


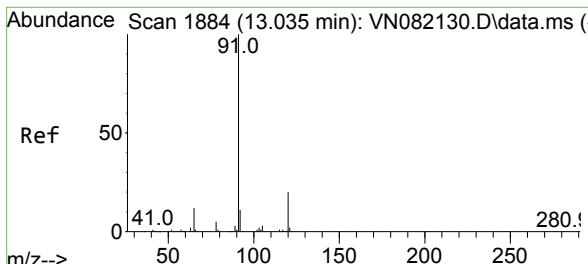
Tgt Ion:105 Resp: 3808
Ion Ratio Lower Upper
105 100
120 22.7 13.4 40.1



#76
1,2,3-Trichloropropane
Concen: 29.851 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

Tgt Ion: 75 Resp: 95428
Ion Ratio Lower Upper
75 100
77 1.6 90.5 271.3#

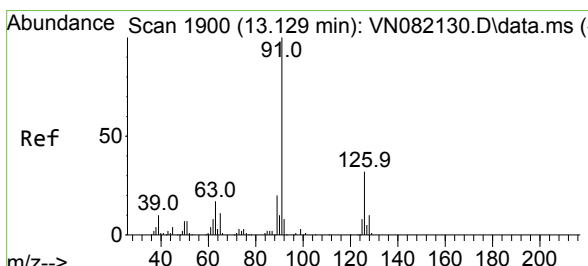
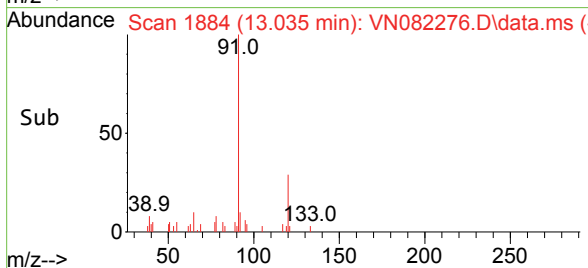
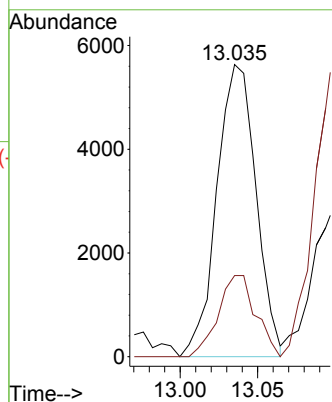
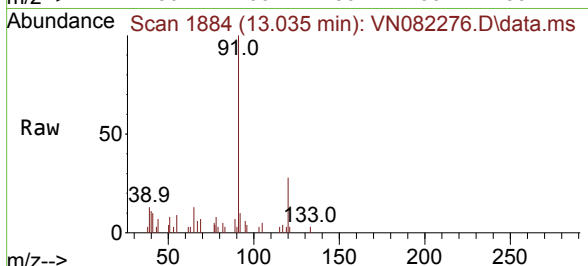




#78
n-propylbenzene
Concen: 0.692 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. -0.000 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

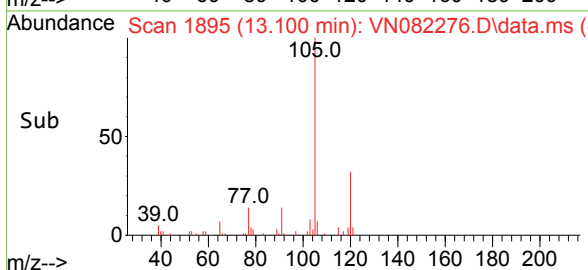
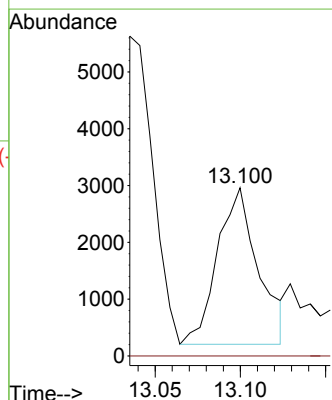
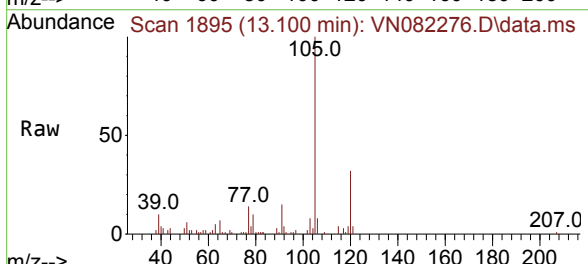
Instrument :
MSVOA_N
ClientSampleId :
16

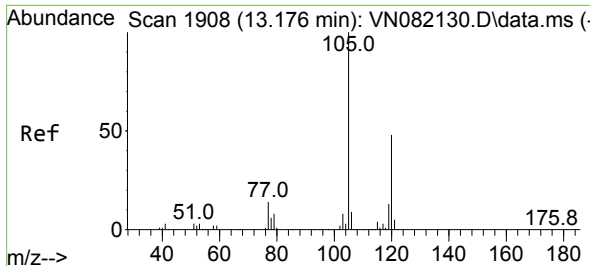
Tgt Ion: 91 Resp: 9893
Ion Ratio Lower Upper
91 100
120 26.6 11.7 35.0



#79
2-Chlorotoluene
Concen: 0.512 ug/l
RT: 13.100 min Scan# 1895
Delta R.T. -0.030 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

Tgt Ion: 91 Resp: 4595
Ion Ratio Lower Upper
91 100
126 0.0 17.5 52.5#

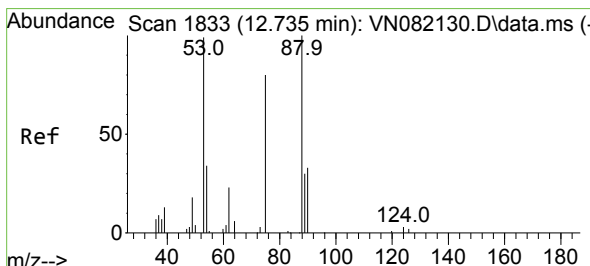
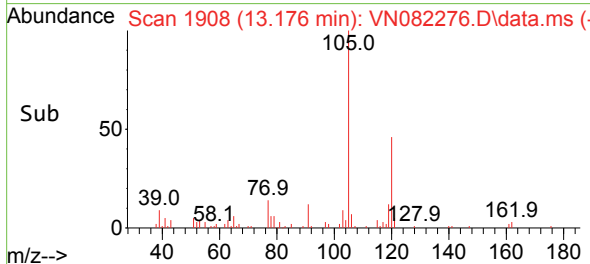
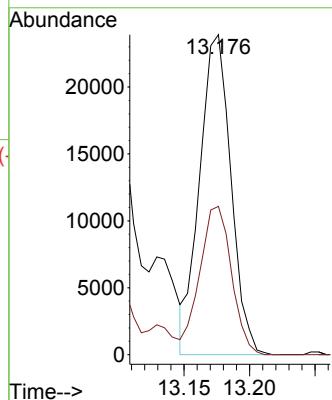
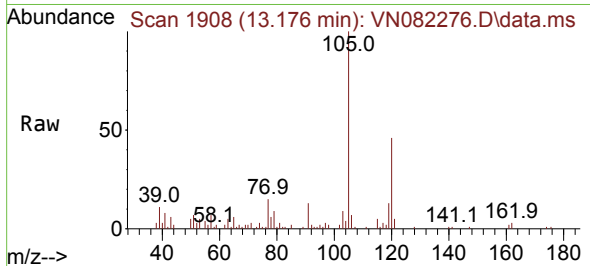




#80
 1,3,5-Trimethylbenzene
 Concen: 4.067 ug/l
 RT: 13.176 min Scan# 1908
 Delta R.T. -0.000 min
 Lab File: VN082276.D
 Acq: 22 May 2024 06:21

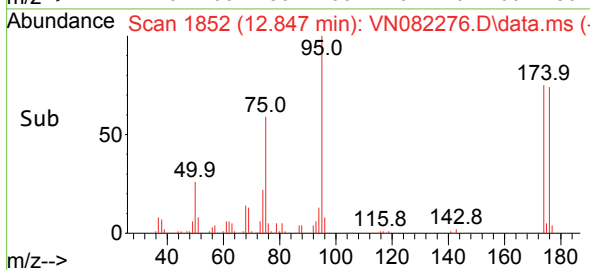
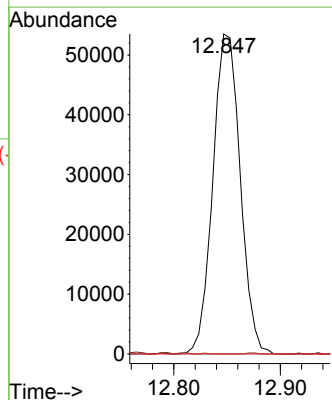
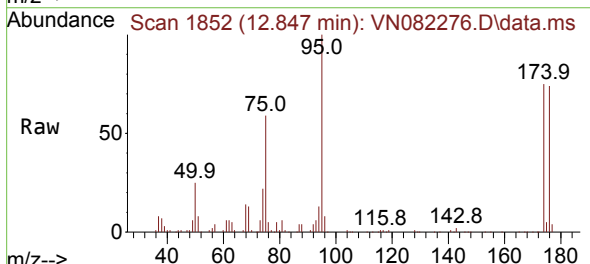
Instrument :
 MSVOA_N
 ClientSampleId :
 16

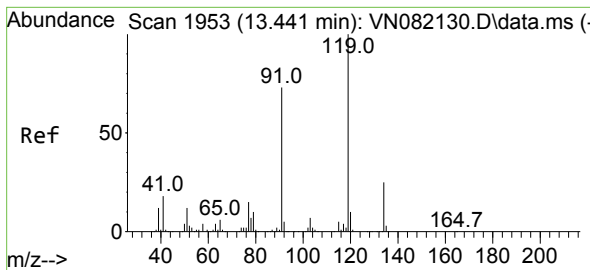
Tgt Ion:105 Resp: 39684
 Ion Ratio Lower Upper
 105 100
 120 47.1 24.8 74.3



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.820 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN082276.D
 Acq: 22 May 2024 06:21

Tgt Ion: 75 Resp: 95428
 Ion Ratio Lower Upper
 75 100
 53 0.0 72.9 109.3#
 89 0.1 39.1 58.7#





#83

tert-Butylbenzene

Concen: 0.539 ug/l

RT: 13.676 min Scan# 1993

Delta R.T. 0.235 min

Lab File: VN082276.D

Acq: 22 May 2024 06:21

Instrument :

MSVOA_N

ClientSampleId :

16

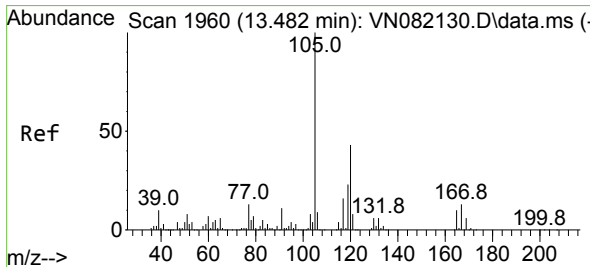
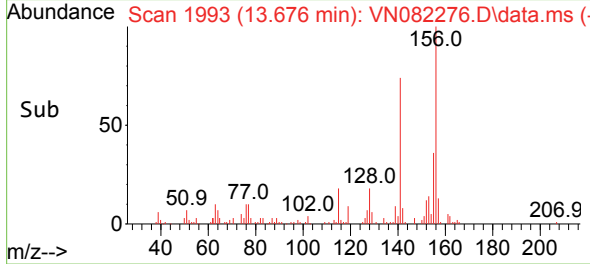
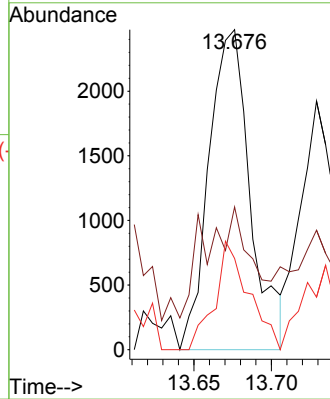
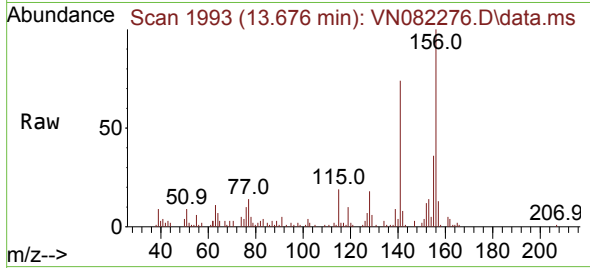
Tgt Ion:119 Resp: 4597

Ion Ratio Lower Upper

119 100

91 38.6 32.6 97.8

134 27.7 12.4 37.0



#84

1,2,4-Trimethylbenzene

Concen: 9.340 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.000 min

Lab File: VN082276.D

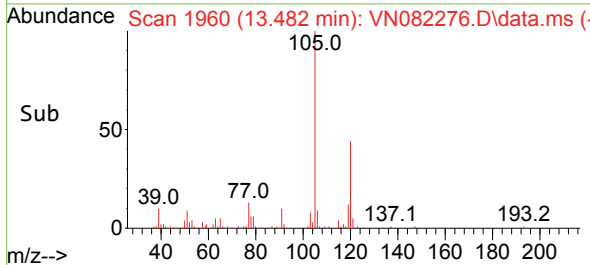
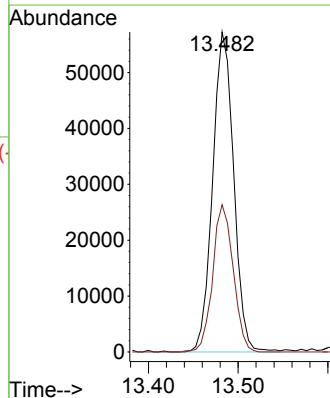
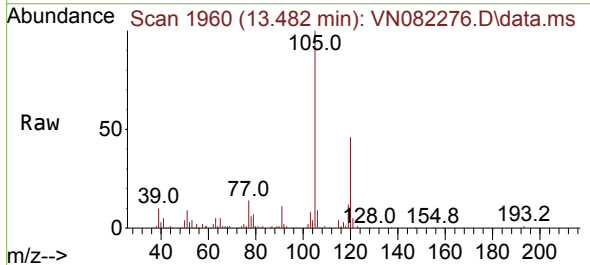
Acq: 22 May 2024 06:21

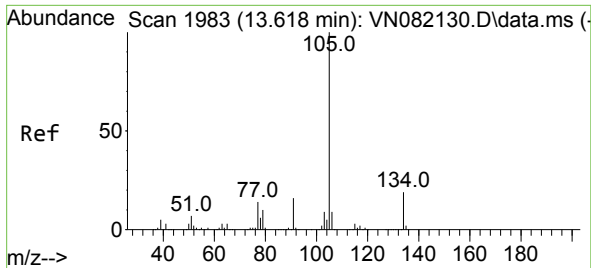
Tgt Ion:105 Resp: 93235

Ion Ratio Lower Upper

105 100

120 44.8 22.9 68.7

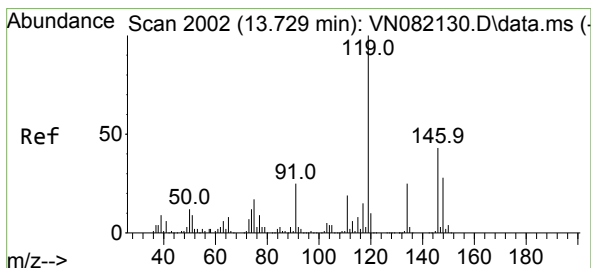
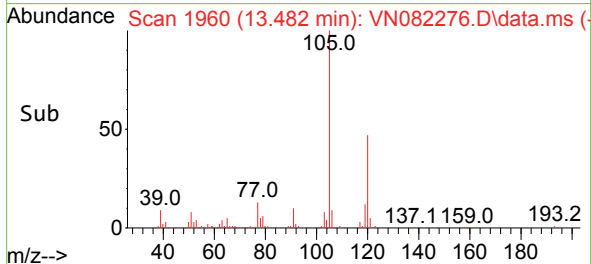
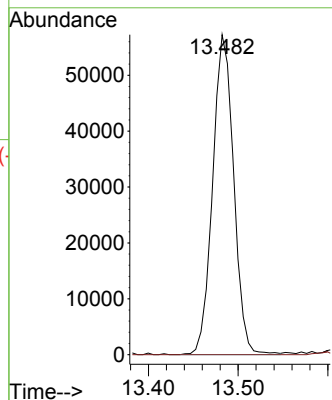
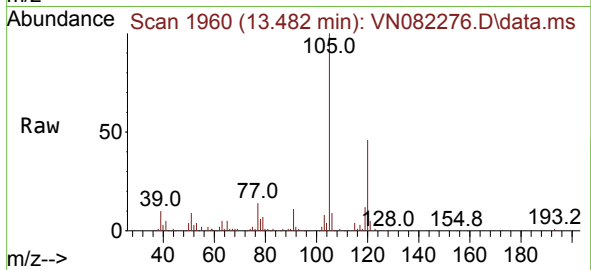




#85
 sec-Butylbenzene
 Concen: 7.880 ug/l
 RT: 13.482 min Scan# 1983
 Delta R.T. -0.135 min
 Lab File: VN082276.D
 Acq: 22 May 2024 06:21

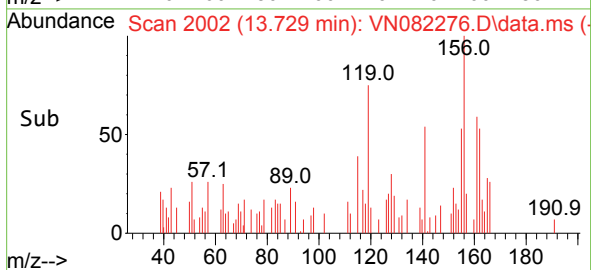
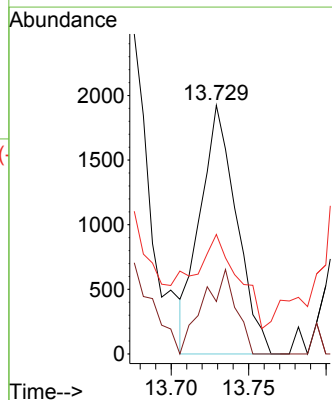
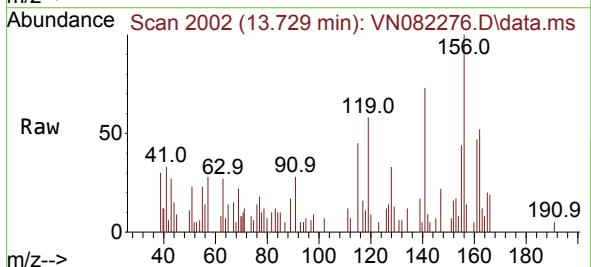
Instrument :
 MSVOA_N
 ClientSampleId :
 16

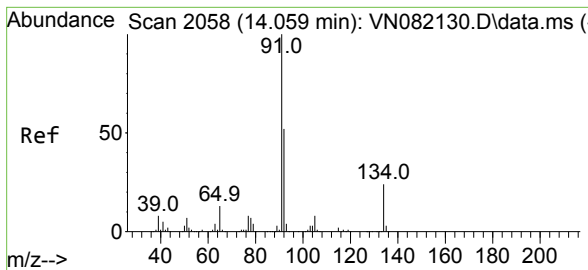
Tgt Ion:105 Resp: 93235
 Ion Ratio Lower Upper
 105 100
 134 0.0 10.2 30.4#



#86
 p-Isopropyltoluene
 Concen: 0.328 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN082276.D
 Acq: 22 May 2024 06:21

Tgt Ion:119 Resp: 3153
 Ion Ratio Lower Upper
 119 100
 134 30.3 13.2 39.5
 91 47.2 11.8 35.3#

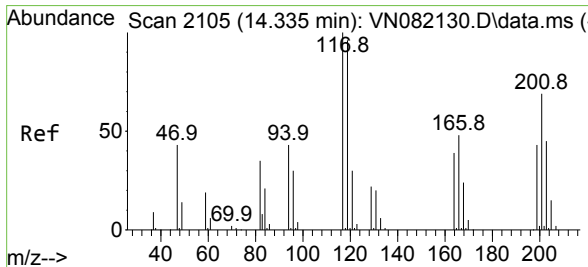
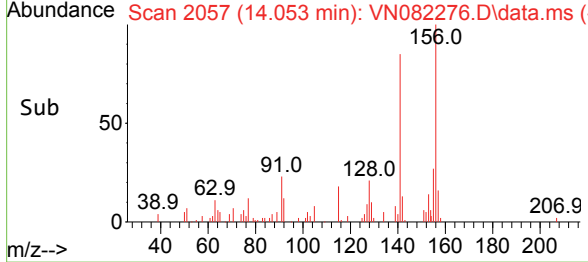
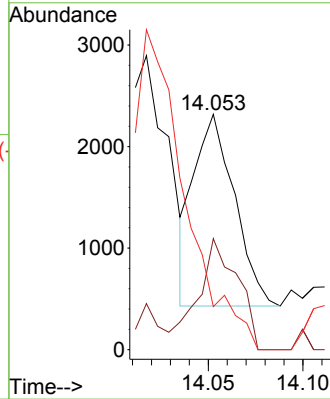
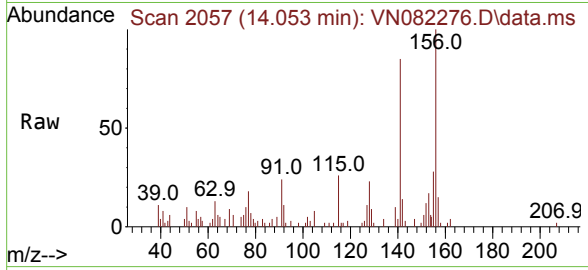




#89
n-Butylbenzene
Concen: 0.326 ug/l
RT: 14.053 min Scan# 2057
Delta R.T. -0.006 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

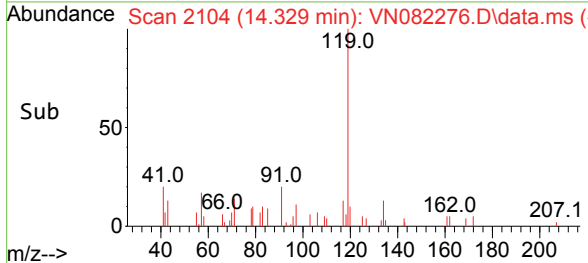
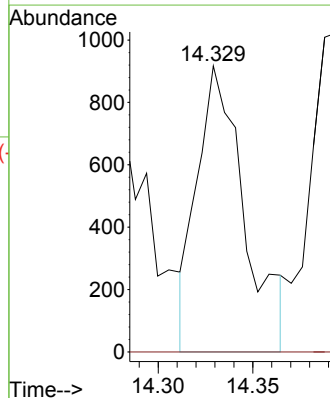
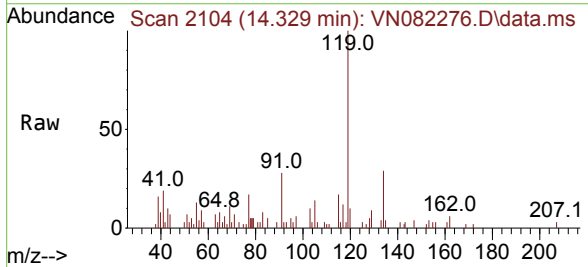
Instrument :
MSVOA_N
ClientSampleId :
16

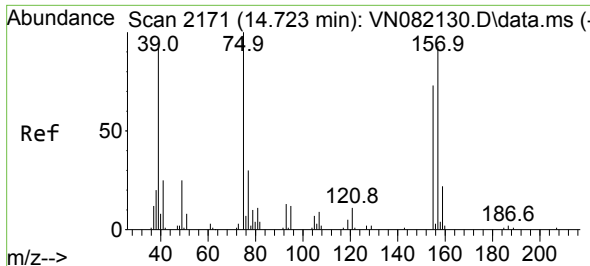
Tgt Ion: 91 Resp: 2819
Ion Ratio Lower Upper
91 100
92 56.0 26.2 78.5
134 0.0 13.2 39.5#



#90
Hexachloroethane
Concen: 0.893 ug/l
RT: 14.329 min Scan# 2104
Delta R.T. -0.006 min
Lab File: VN082276.D
Acq: 22 May 2024 06:21

Tgt Ion: 117 Resp: 1590
Ion Ratio Lower Upper
117 100
201 0.0 33.3 99.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.786 ug/l

RT: 14.664 min Scan# 2161

Delta R.T. -0.059 min

Lab File: VN082276.D

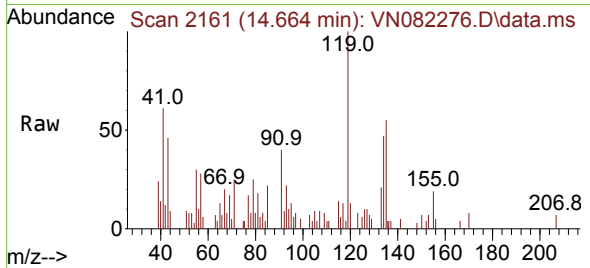
Acq: 22 May 2024 06:21

Instrument :

MSVOA_N

ClientSampleId :

16



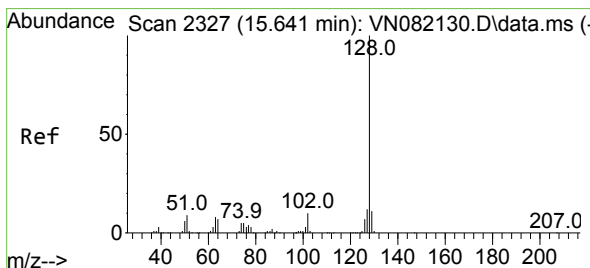
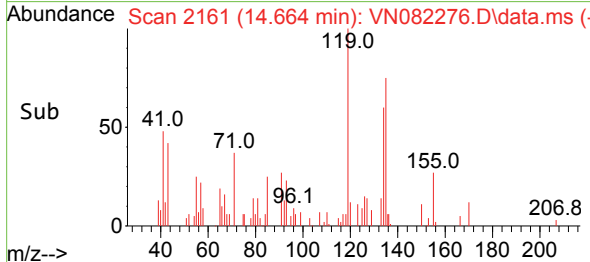
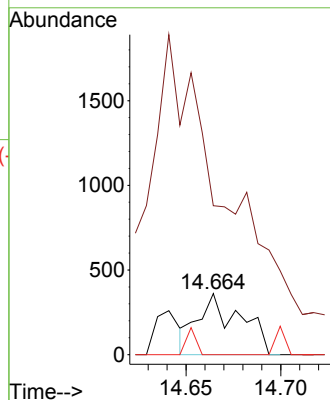
Tgt Ion: 75 Resp: 562

Ion Ratio Lower Upper

75 100

155 0.0 42.6 128.0#

157 0.0 53.0 159.0#



#95

Naphthalene

Concen: 107.945 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. -0.000 min

Lab File: VN082276.D

Acq: 22 May 2024 06:21

Tgt Ion:128 Resp: 935090

Ion Ratio Lower Upper

128 100

127 13.2 10.1 15.1

129 11.1 8.9 13.3

