

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN031323\
 Data File : VN076964.D
 Acq On : 13 Mar 2023 16:08
 Operator : JC\MD
 Sample : 01880-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE115D1-20230309

Quant Time: Mar 14 07:03:47 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031023W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 10 13:47:39 2023
 Response via : Initial Calibration

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

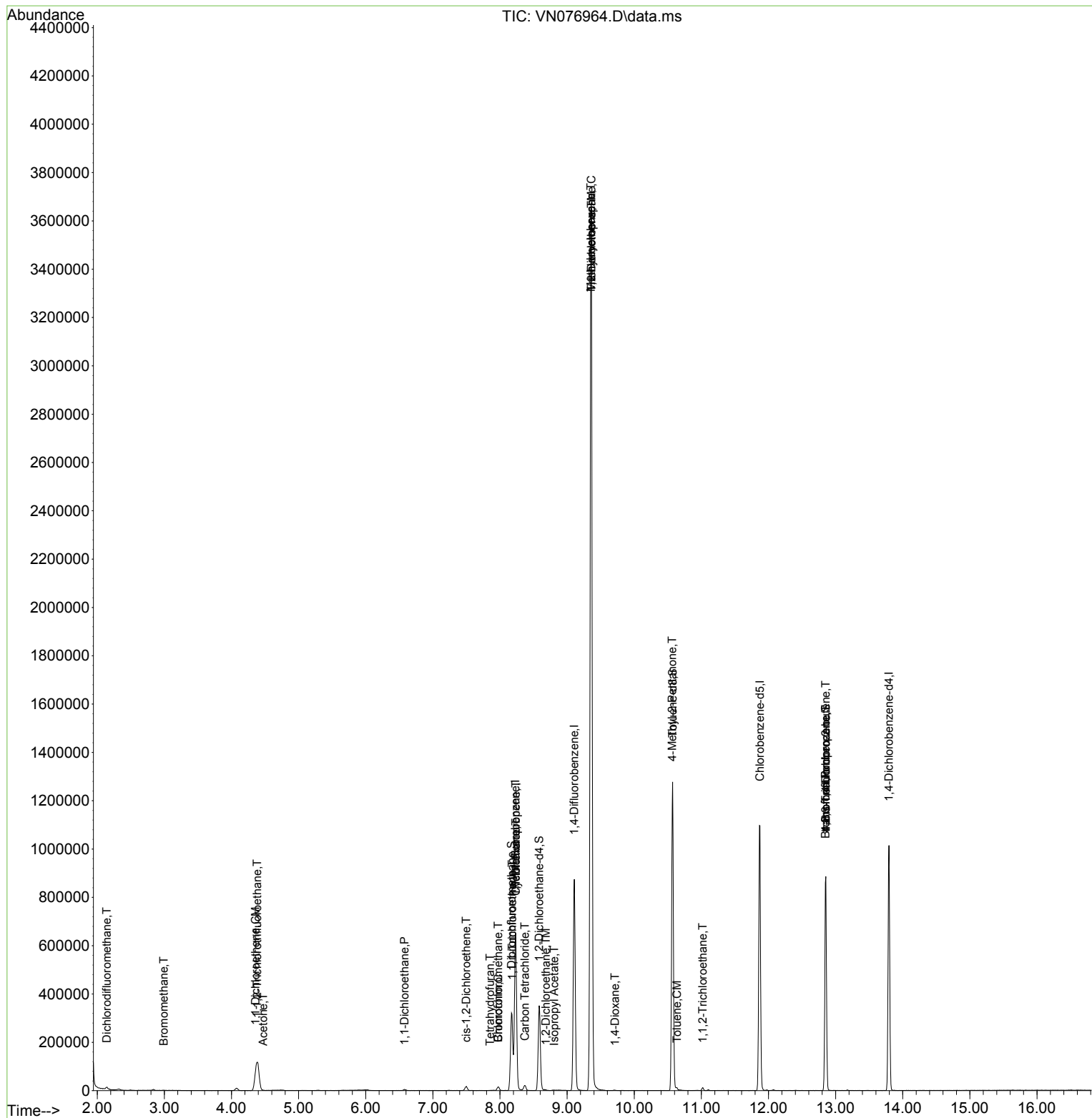
Internal Standards						
1) Pentafluorobenzene	8.231	168	462940	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	742805	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.872	117	652894	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	265270	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	313980	45.449	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.900%		
35) Dibromofluoromethane	8.172	113	231258	46.714	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	93.420%		
50) Toluene-d8	10.572	98	876300	48.029	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	96.060%		
62) 4-Bromofluorobenzene	12.854	95	317697	47.606	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	95.220%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.143	85	7336	0.880	ug/l	92
5) Bromomethane	2.990	94	713	0.231	ug/l	83
9) 1,1,2-Trichlorotrifluo...	4.384	101	72542	13.065	ug/l	97
12) 1,1-Dichloroethene	4.360	96	28095	5.490	ug/l	98
16) Acetone	4.472	43	667	0.279	ug/l #	40
24) 1,1-Dichloroethane	6.578	63	6862	0.661	ug/l #	80
27) cis-1,2-Dichloroethene	7.495	96	10617	1.696	ug/l	98
28) Bromochloromethane	7.972	49	1043	0.278	ug/l #	5
29) Tetrahydrofuran	7.854	42	484	0.229	ug/l #	72
30) Chloroform	7.972	83	15233	1.367	ug/l	97
31) Cyclohexane	8.237	56	10093	1.018	ug/l #	46
32) 1,1,1-Trichloroethane	8.184	97	4253	0.407	ug/l #	24
36) 1,1-Dichloropropene	8.237	75	39106	5.108	ug/l #	49
38) Carbon Tetrachloride	8.372	117	16956	1.892	ug/l	95
39) Methylcyclohexane	9.354	83	17065	1.836	ug/l #	1
42) 1,2-Dichloroethane	8.684	62	2358	0.268	ug/l #	71
43) Isopropyl Acetate	8.807	43	2435	0.225	ug/l #	48
44) Trichloroethene	9.360	130	1339195	229.606	ug/l	99
45) 1,2-Dichloropropane	9.360	63	3507	0.632	ug/l #	1
49) 1,4-Dioxane	9.713	88	1827	18.219	ug/l #	65
51) 4-Methyl-2-Pentanone	10.566	43	3863	0.595	ug/l #	1
52) Toluene	10.636	92	3545	0.255	ug/l	88
55) 1,1,2-Trichloroethane	11.019	97	3782	0.700	ug/l #	86
71) Bromoform	12.848	173	2234	0.541	ug/l #	1
76) 1,2,3-Trichloropropane	12.854	75	168731	26.236	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.854	75	168731	85.700	ug/l #	15

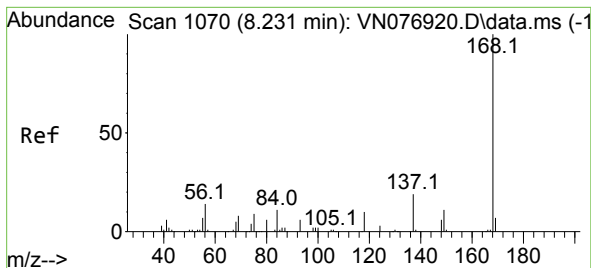
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 10 13:47:39 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.231 min Scan# 1070

Delta R.T. -0.000 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

Instrument :

MSVOA_N

ClientSampleId :

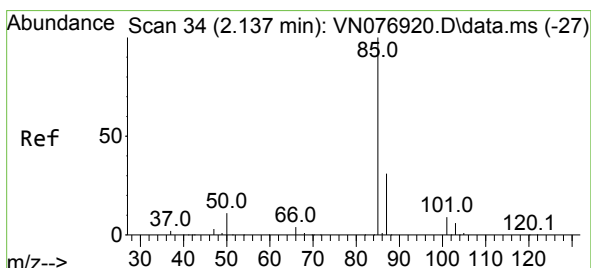
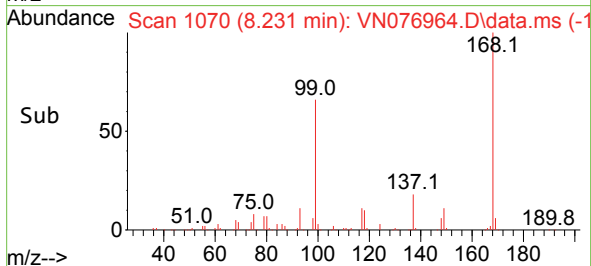
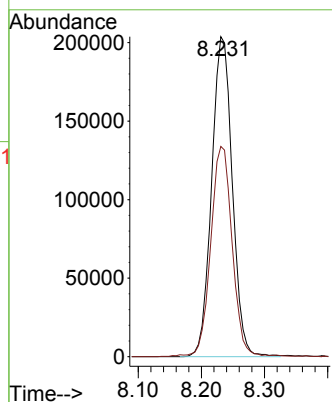
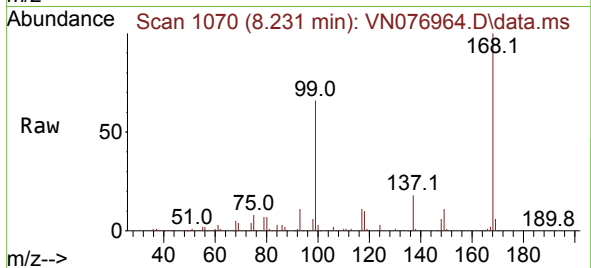
RE115D1-20230309

Tgt Ion:168 Resp: 462940

Ion Ratio Lower Upper

168 100

99 65.4 48.6 73.0



#2

Dichlorodifluoromethane

Concen: 0.880 ug/l

RT: 2.143 min Scan# 35

Delta R.T. 0.006 min

Lab File: VN076964.D

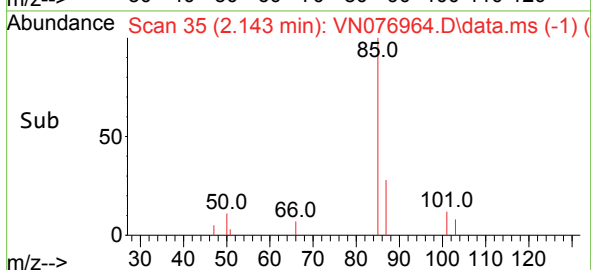
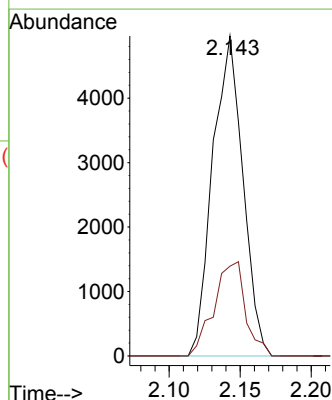
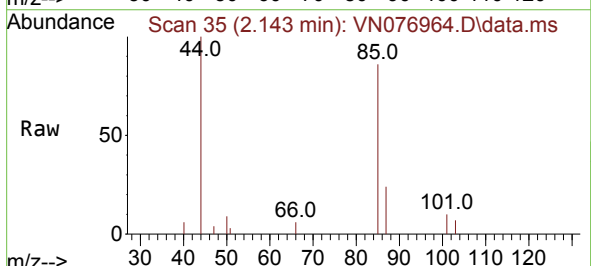
Acq: 13 Mar 2023 16:08

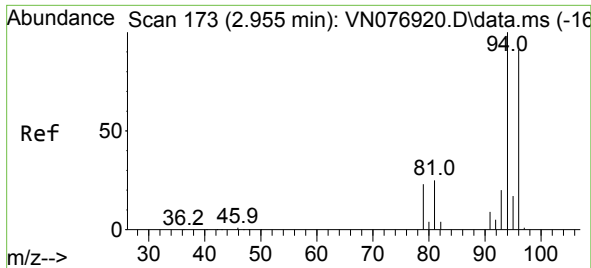
Tgt Ion: 85 Resp: 7336

Ion Ratio Lower Upper

85 100

87 28.0 16.2 48.6

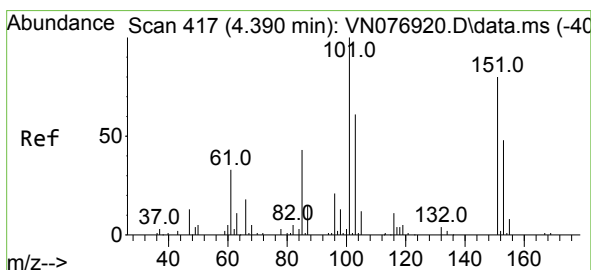
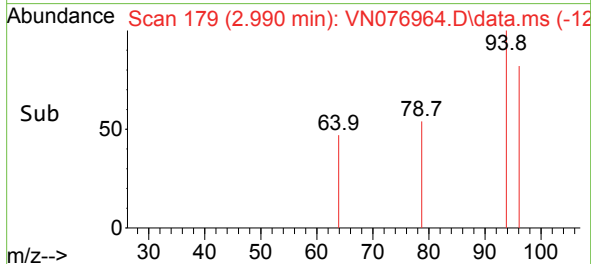
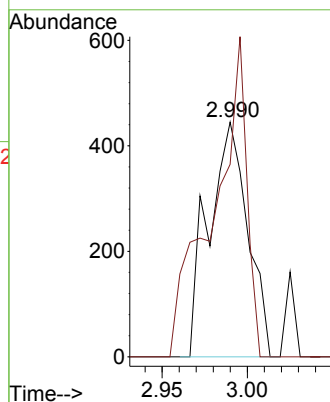
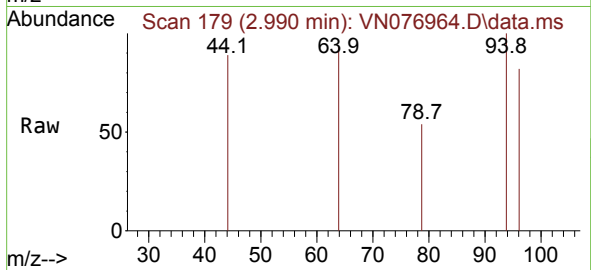




#5
Bromomethane
Concen: 0.231 ug/l
RT: 2.990 min Scan# 11
Delta R.T. 0.035 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

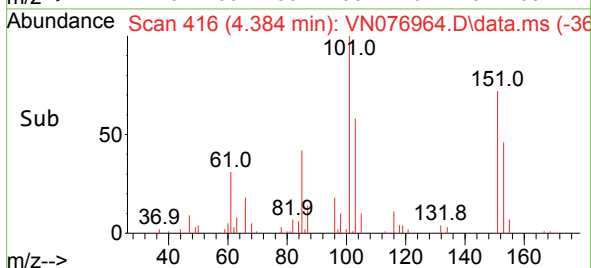
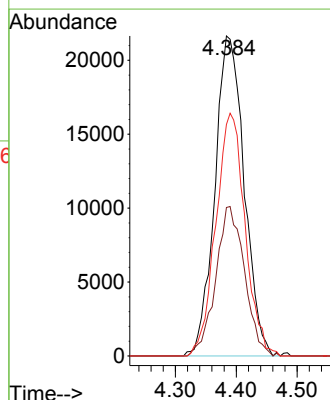
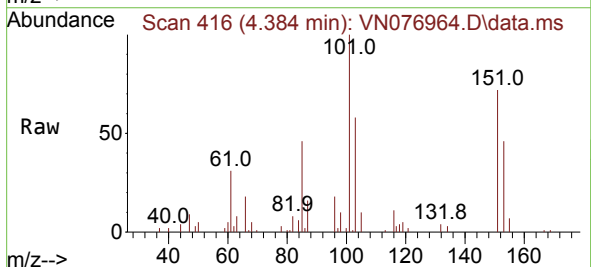
Instrument :
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RE115D1-20230309

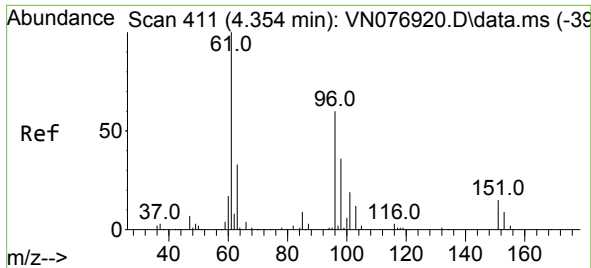
Tgt Ion: 94 Resp: 713
Ion Ratio Lower Upper
94 100
96 82.0 79.0 118.6



#9
1,1,2-Trichlorotrifluoroethane
Concen: 13.065 ug/l
RT: 4.384 min Scan# 416
Delta R.T. -0.006 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

Tgt Ion: 101 Resp: 72542
Ion Ratio Lower Upper
101 100
85 45.9 35.2 52.8
151 75.6 58.9 88.3

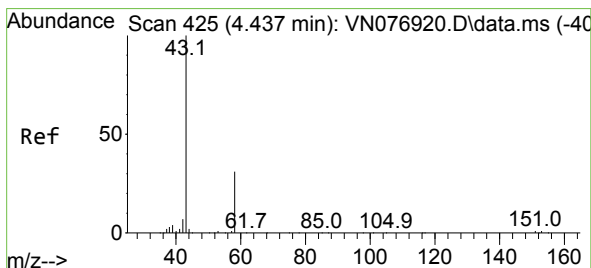
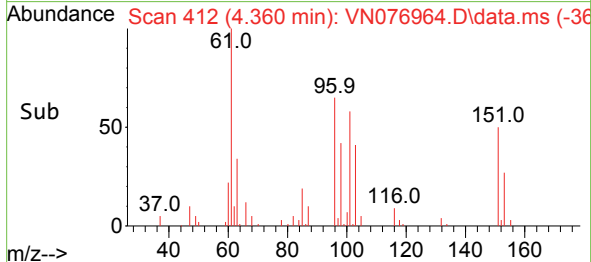
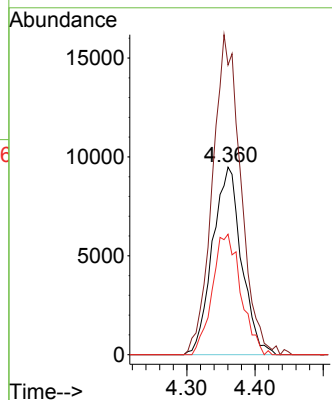
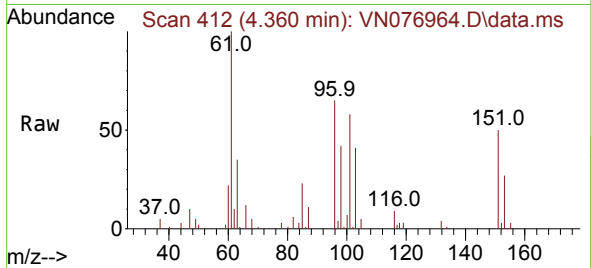




#12
1,1-Dichloroethene
Concen: 5.490 ug/l
RT: 4.360 min Scan# 411
Delta R.T. 0.006 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

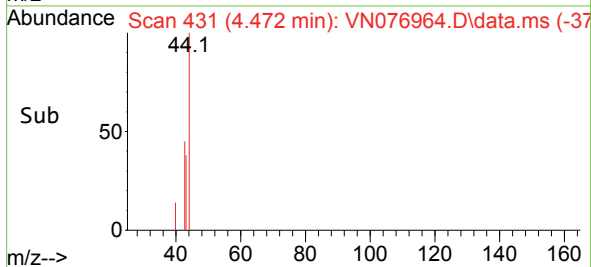
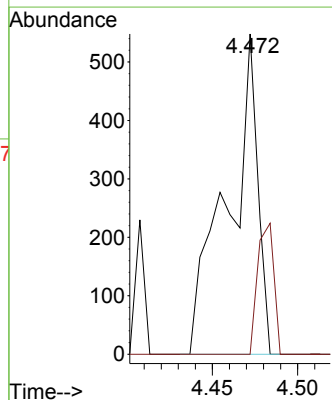
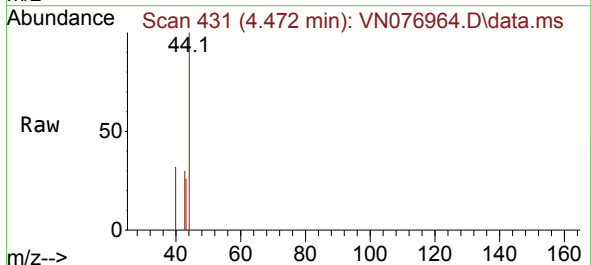
Instrument :
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ClientSampleId :
RE115D1-20230309

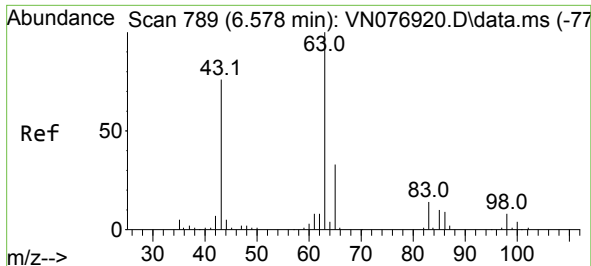
Tgt Ion: 96 Resp: 28095
Ion Ratio Lower Upper
96 100
61 154.5 121.3 181.9
98 64.2 52.1 78.1



#16
Acetone
Concen: 0.279 ug/l
RT: 4.472 min Scan# 431
Delta R.T. 0.035 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

Tgt Ion: 43 Resp: 667
Ion Ratio Lower Upper
43 100
58 0.0 28.2 42.2#

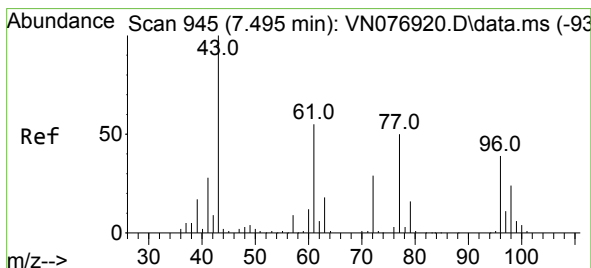
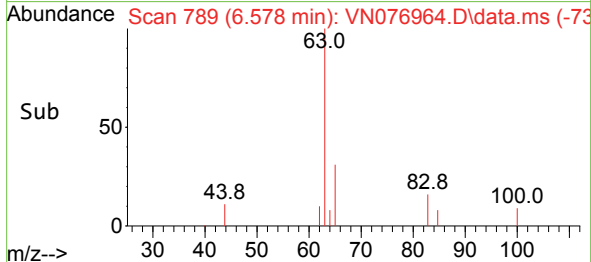
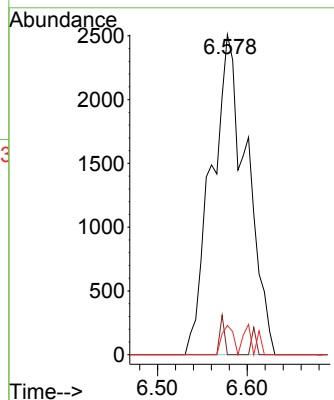
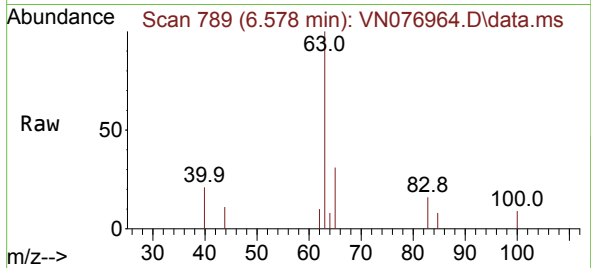




#24
1,1-Dichloroethane
Concen: 0.661 ug/l
RT: 6.578 min Scan# 71
Delta R.T. -0.000 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

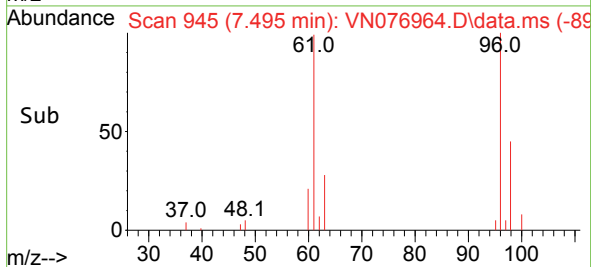
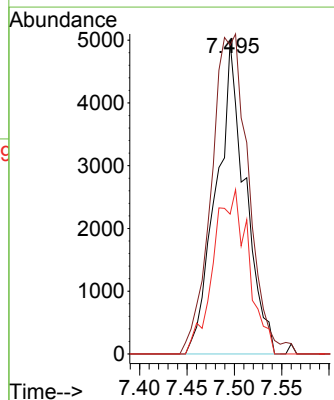
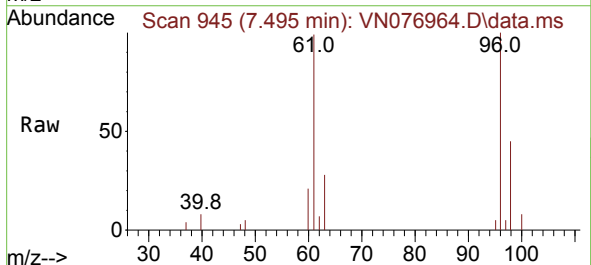
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ClientSampleId :
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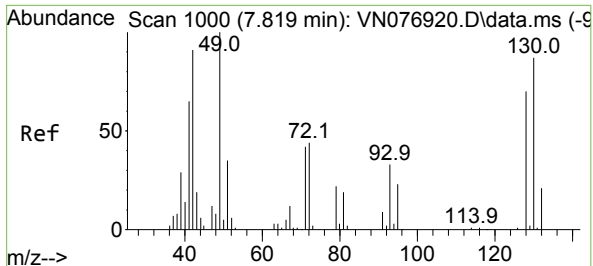
Tgt Ion: 63 Resp: 6862
Ion Ratio Lower Upper
63 100
98 0.0 4.2 12.6#
100 9.2 2.2 6.6#



#27
cis-1,2-Dichloroethene
Concen: 1.696 ug/l
RT: 7.495 min Scan# 945
Delta R.T. 0.000 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

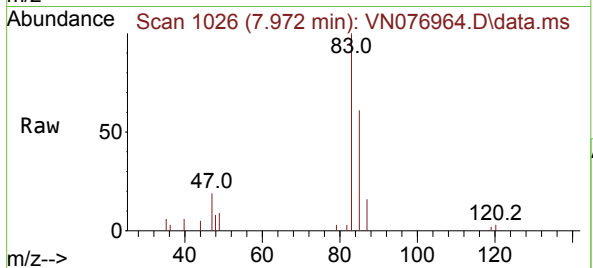
Tgt Ion: 96 Resp: 10617
Ion Ratio Lower Upper
96 100
61 131.0 0.0 255.6
98 63.7 0.0 127.4



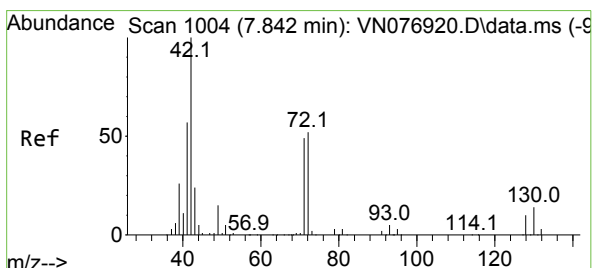
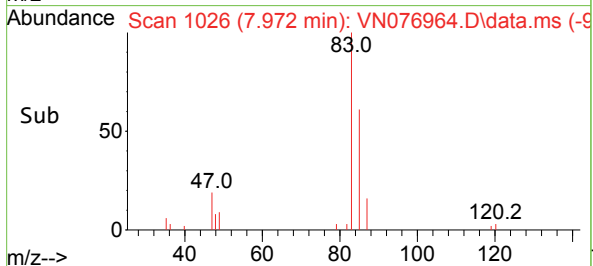
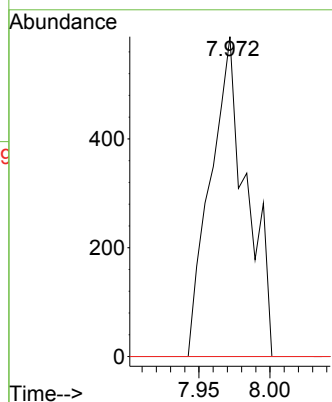


#28
Bromochloromethane
Concen: 0.278 ug/l
RT: 7.972 min Scan# 1026
Delta R.T. 0.153 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

Instrument :
MSVOA_N
ClientSampleId :
RE115D1-20230309

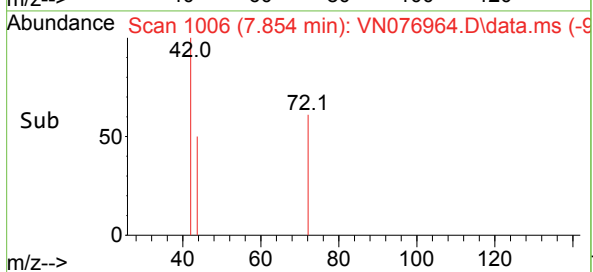
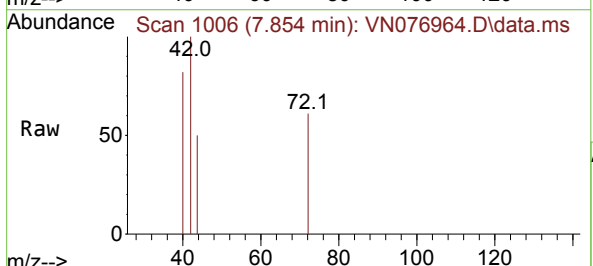
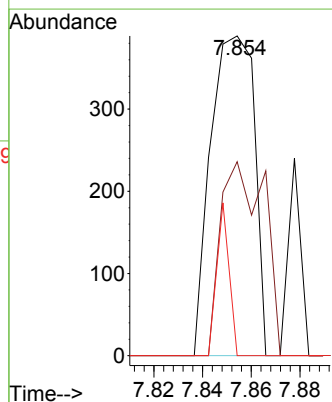


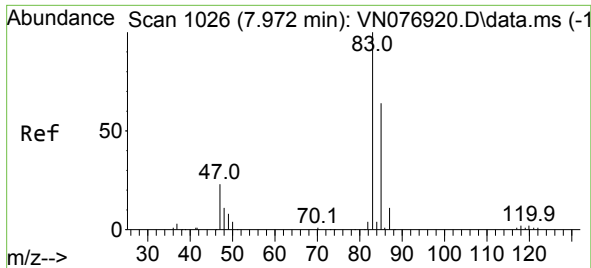
Tgt Ion: 49 Resp: 1043
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.6
130 0.0 74.8 112.2#



#29
Tetrahydrofuran
Concen: 0.229 ug/l
RT: 7.854 min Scan# 1006
Delta R.T. 0.012 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

Tgt Ion: 42 Resp: 484
Ion Ratio Lower Upper
42 100
72 60.5 48.6 73.0
71 13.6 45.1 67.7#

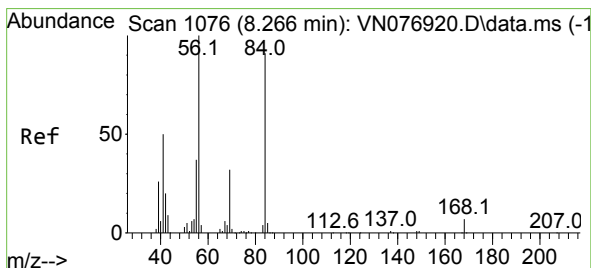
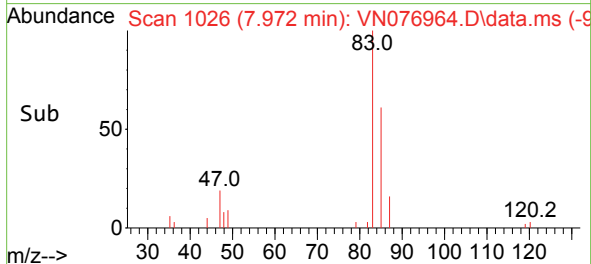
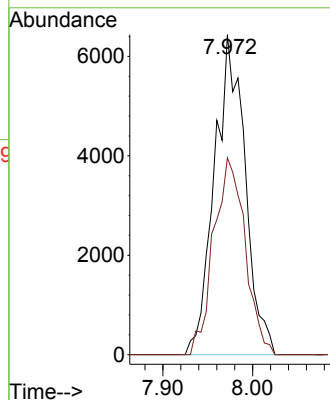
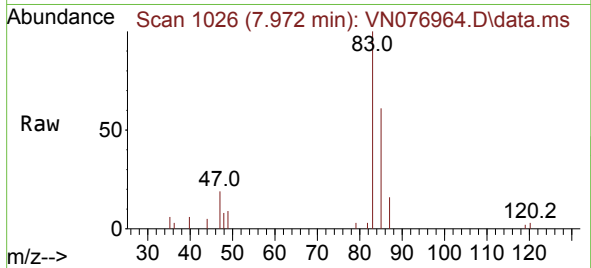




#30
Chloroform
Concen: 1.367 ug/l
RT: 7.972 min Scan# 1026
Delta R.T. -0.000 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

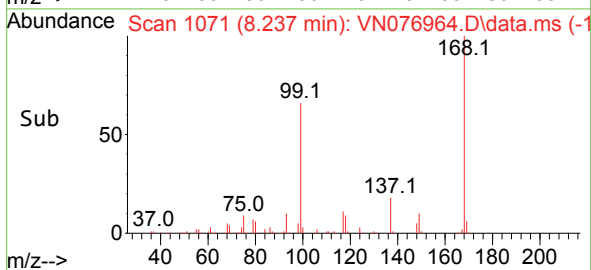
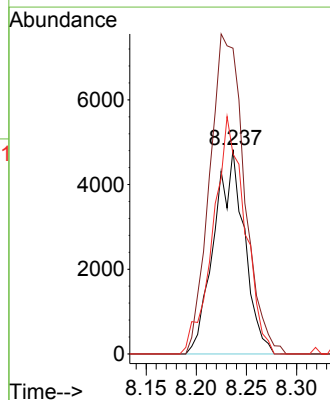
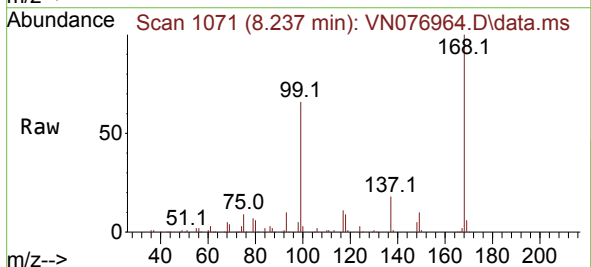
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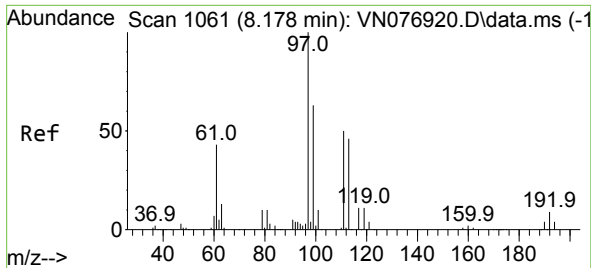
Tgt Ion: 83 Resp: 15233
Ion Ratio Lower Upper
83 100
85 61.5 51.3 76.9



#31
Cyclohexane
Concen: 1.018 ug/l
RT: 8.237 min Scan# 1071
Delta R.T. -0.029 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

Tgt Ion: 56 Resp: 10093
Ion Ratio Lower Upper
56 100
69 149.6 27.0 40.6#
84 97.8 82.9 124.3

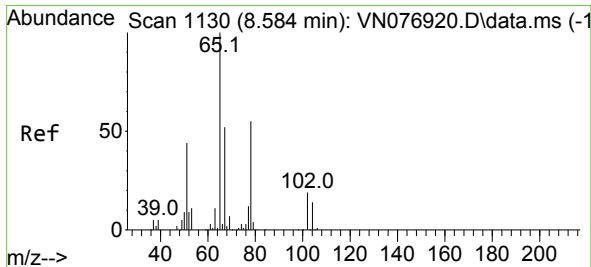
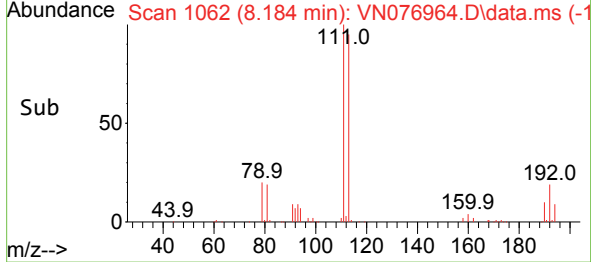
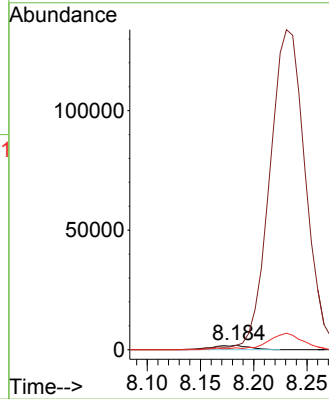
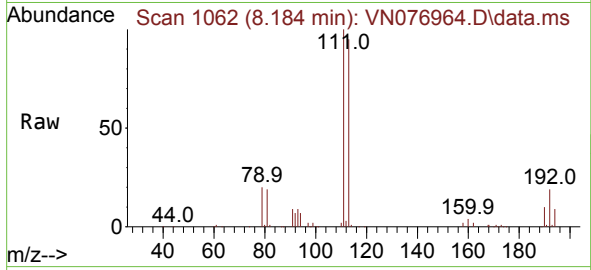




#32
1,1,1-Trichloroethane
Concen: 0.407 ug/l
RT: 8.184 min Scan# 1061
Delta R.T. 0.006 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

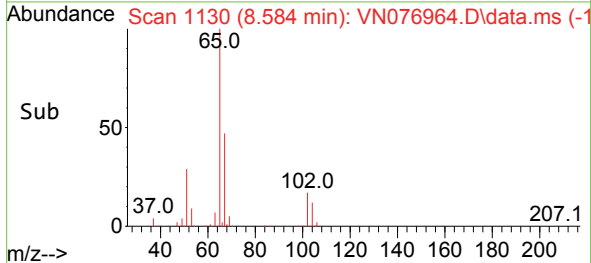
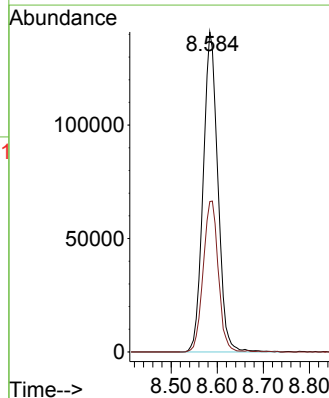
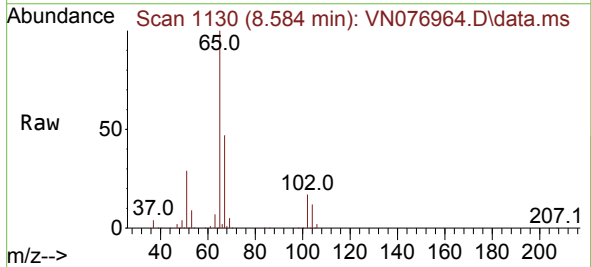
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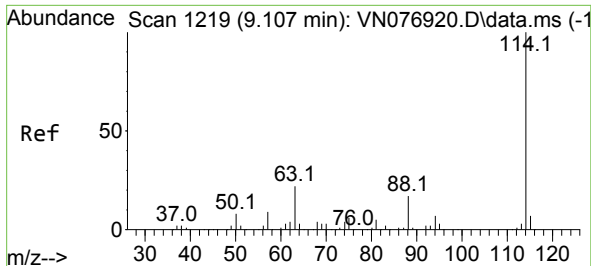
Tgt Ion: 97 Resp: 4253
Ion Ratio Lower Upper
97 100
99 0.0 51.2 76.8#
61 0.0 35.7 53.5#



#33
1,2-Dichloroethane-d4
Concen: 45.449 ug/l
RT: 8.584 min Scan# 1130
Delta R.T. -0.000 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

Tgt Ion: 65 Resp: 313980
Ion Ratio Lower Upper
65 100
67 48.4 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

Instrument :

MSVOA_N

ClientSampleId :

RE115D1-20230309

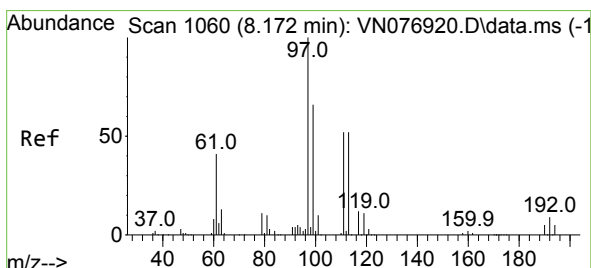
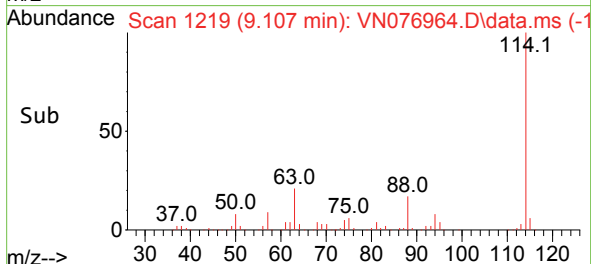
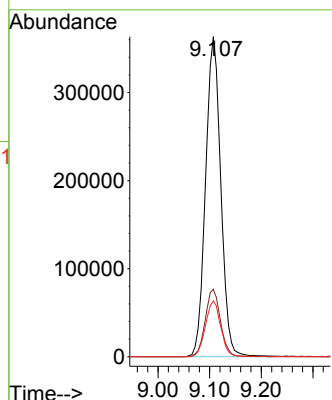
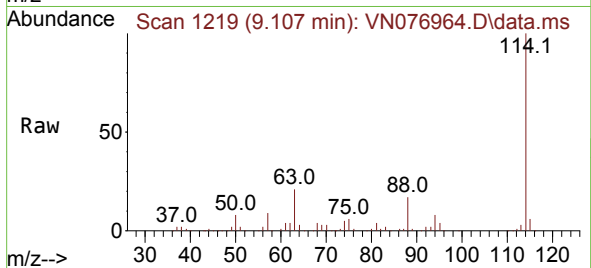
Tgt Ion:114 Resp: 742805

Ion Ratio Lower Upper

114 100

63 21.1 0.0 36.6

88 17.4 0.0 28.6



#35

Dibromofluoromethane

Concen: 46.714 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

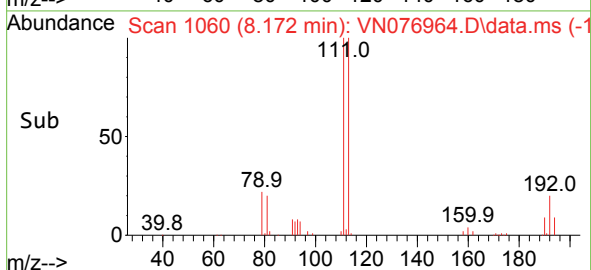
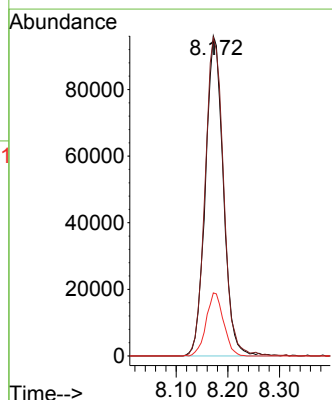
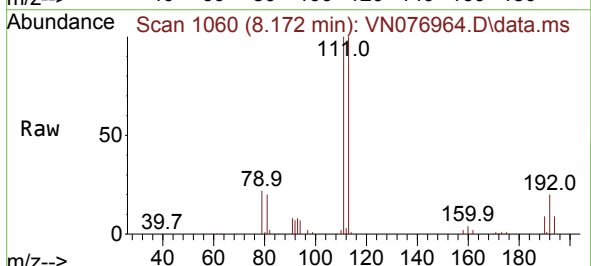
Tgt Ion:113 Resp: 231258

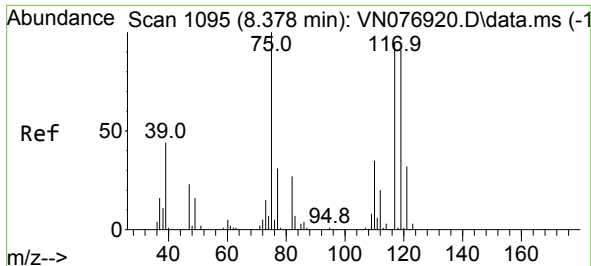
Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.8

192 19.2 13.9 20.9





#36

1,1-Dichloropropene

Concen: 5.108 ug/l

RT: 8.237 min Scan# 1071

Delta R.T. -0.141 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

Instrument :

MSVOA_N

ClientSampleId :

RE115D1-20230309

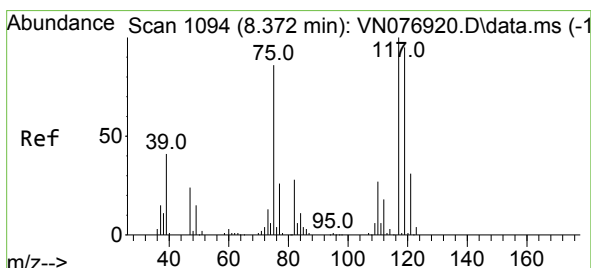
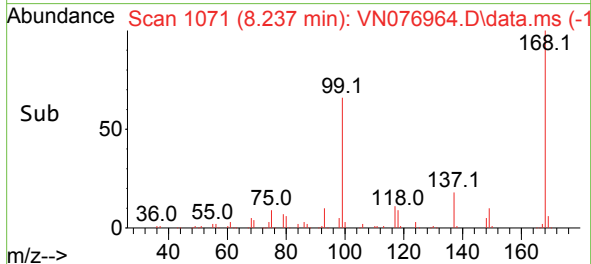
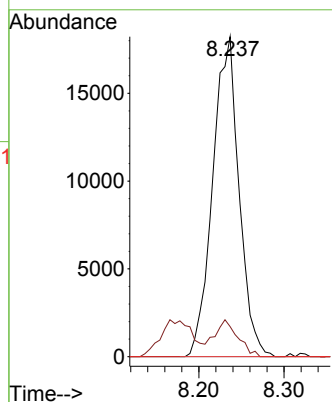
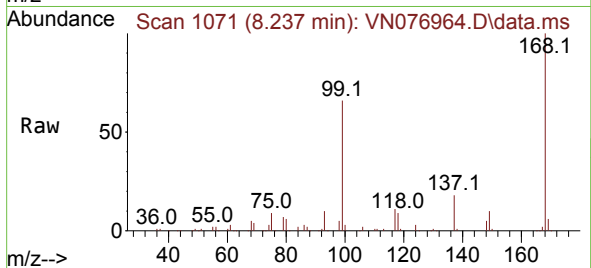
Tgt Ion: 75 Resp: 39106

Ion Ratio Lower Upper

75 100

110 10.1 18.9 56.9#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 1.892 ug/l

RT: 8.372 min Scan# 1094

Delta R.T. -0.000 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

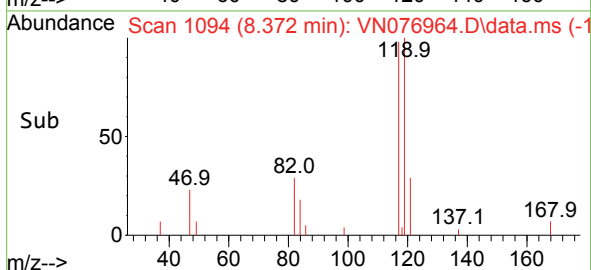
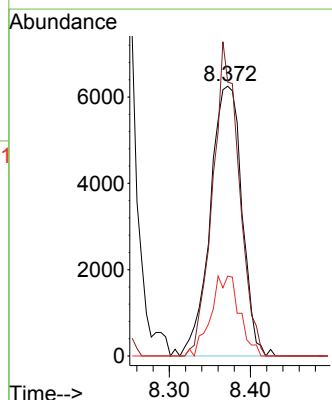
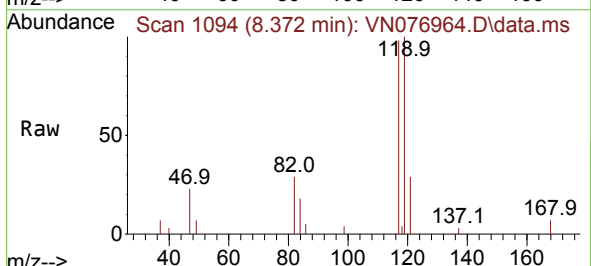
Tgt Ion: 117 Resp: 16956

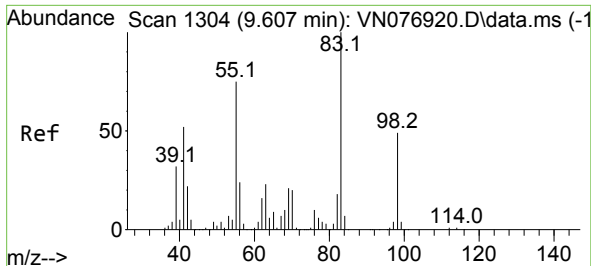
Ion Ratio Lower Upper

117 100

119 101.6 76.9 115.3

121 29.6 23.2 34.8





#39

Methylcyclohexane

Concen: 1.836 ug/l

RT: 9.354 min Scan# 11

Delta R.T. -0.253 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

Instrument :

MSVOA_N

ClientSampleId :

RE115D1-20230309

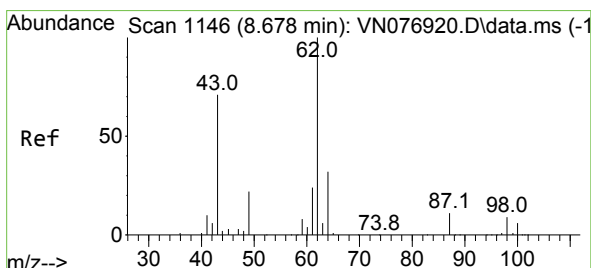
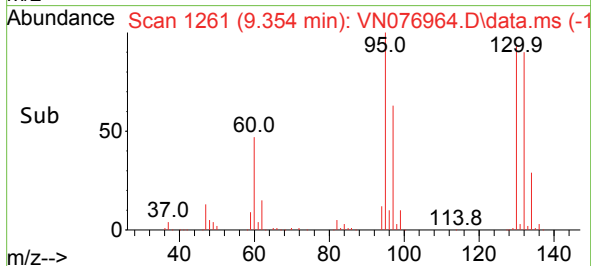
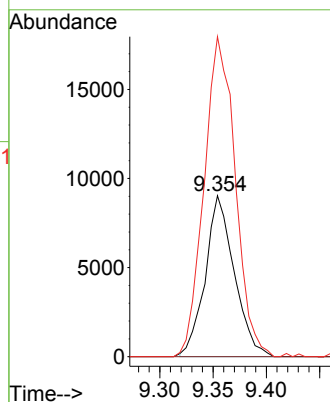
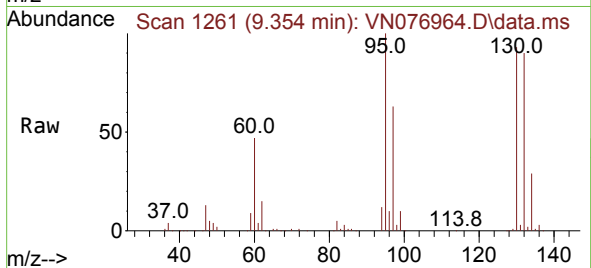
Tgt Ion: 83 Resp: 17065

Ion Ratio Lower Upper

83 100

55 0.0 47.0 70.4#

98 198.9 39.4 59.0#



#42

1,2-Dichloroethane

Concen: 0.268 ug/l

RT: 8.684 min Scan# 1147

Delta R.T. 0.006 min

Lab File: VN076964.D

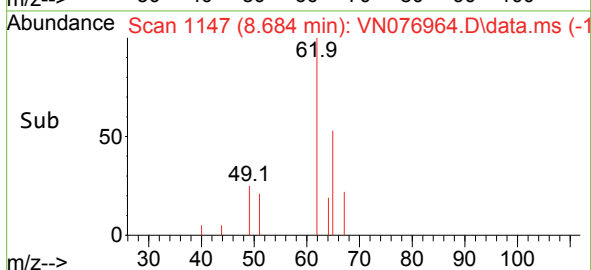
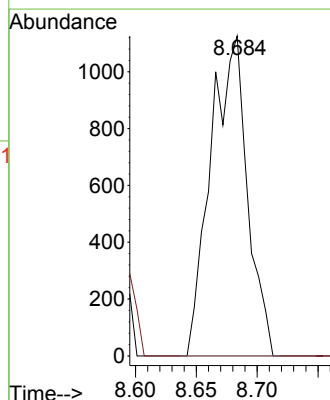
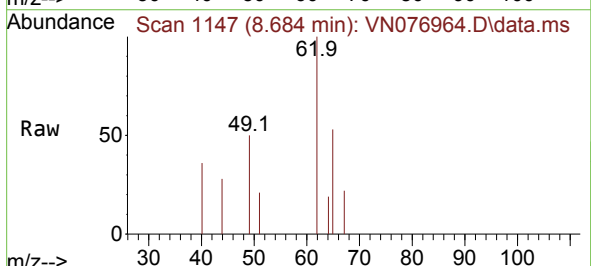
Acq: 13 Mar 2023 16:08

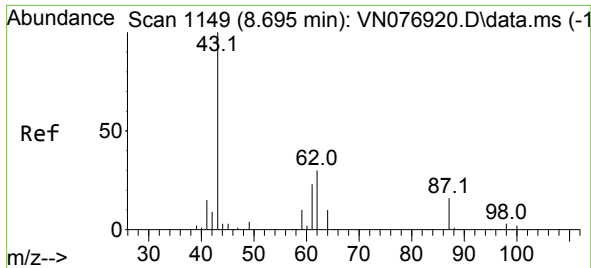
Tgt Ion: 62 Resp: 2358

Ion Ratio Lower Upper

62 100

98 0.0 0.0 21.8

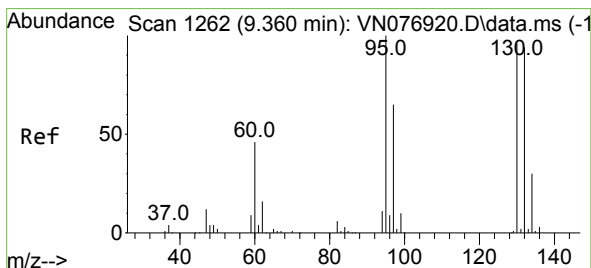
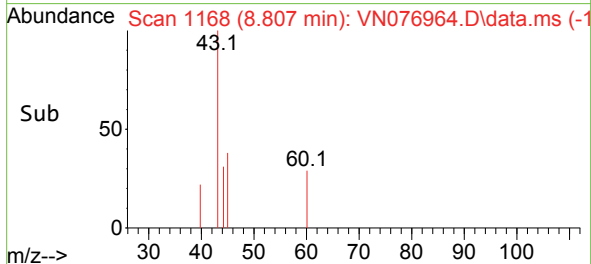
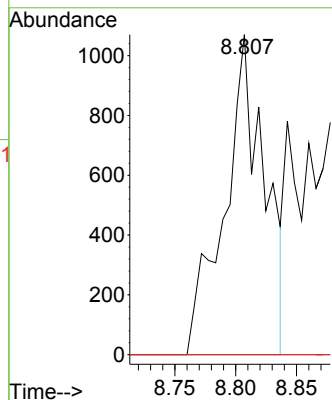
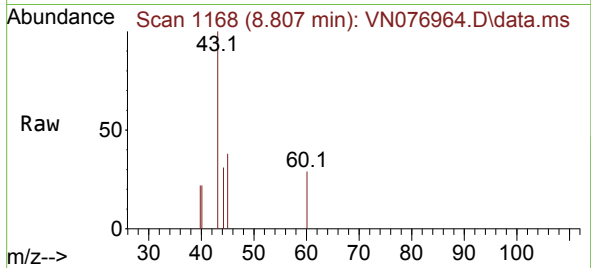




#43
Isopropyl Acetate
Concen: 0.225 ug/l
RT: 8.807 min Scan# 1168
Delta R.T. 0.112 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

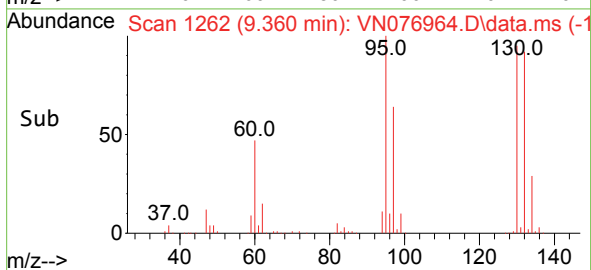
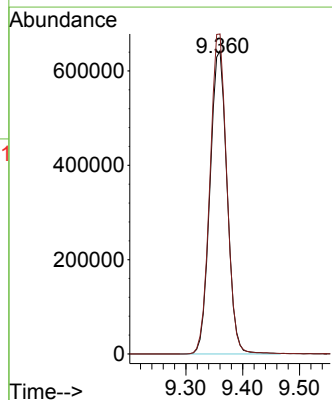
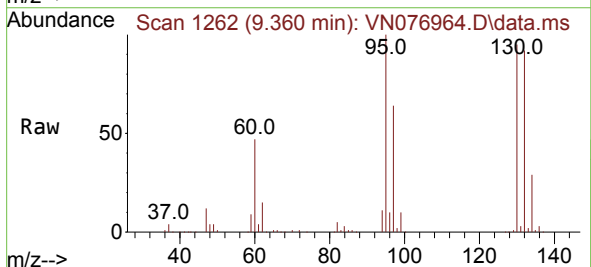
Instrument :
MSVOA_N
ClientSampleId :
RE115D1-20230309

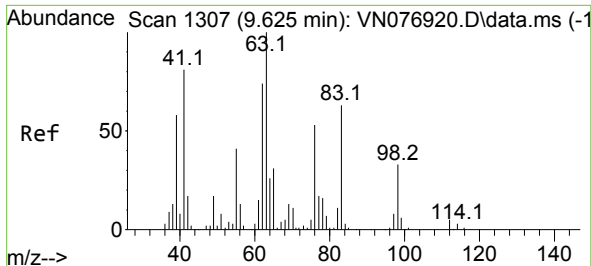
Tgt Ion: 43 Resp: 2435
Ion Ratio Lower Upper
43 100
61 0.0 26.2 39.2#
87 0.0 14.8 22.2#



#44
Trichloroethene
Concen: 229.606 ug/l
RT: 9.360 min Scan# 1262
Delta R.T. 0.000 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

Tgt Ion:130 Resp: 1339195
Ion Ratio Lower Upper
130 100
95 105.5 0.0 208.6





#45

1,2-Dichloropropane

Concen: 0.632 ug/l

RT: 9.360 min Scan# 11

Delta R.T. -0.265 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

Instrument :

MSVOA_N

ClientSampleId :

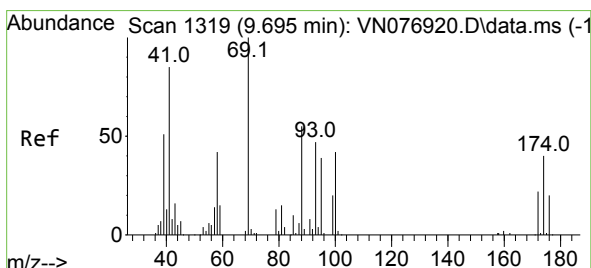
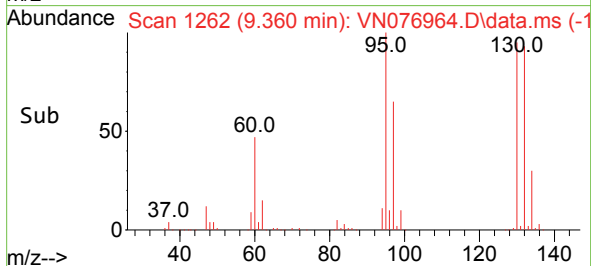
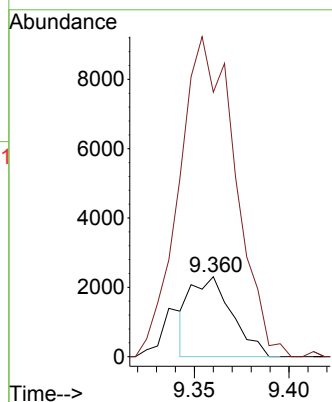
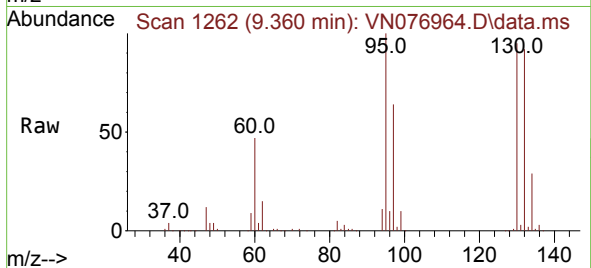
RE115D1-20230309

Tgt Ion: 63 Resp: 3507

Ion Ratio Lower Upper

63 100

65 314.0 25.0 37.6#



#49

1,4-Dioxane

Concen: 18.219 ug/l

RT: 9.713 min Scan# 1322

Delta R.T. 0.018 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

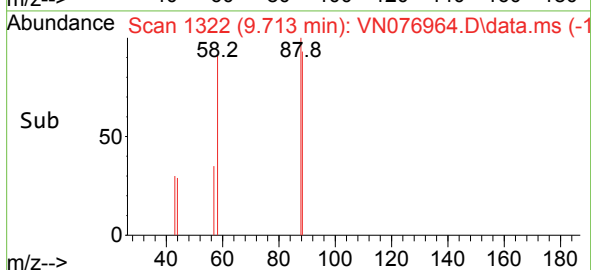
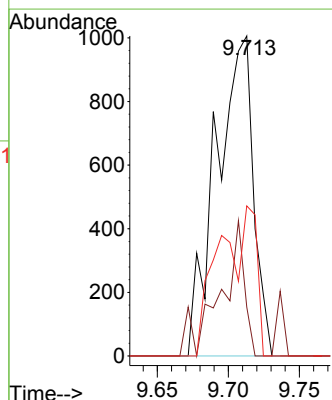
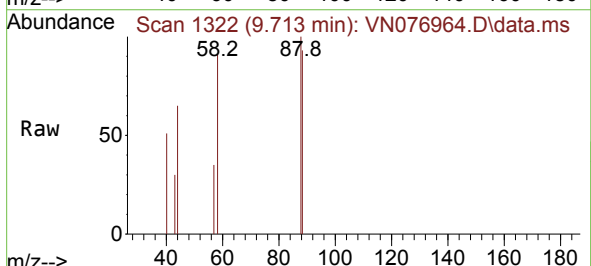
Tgt Ion: 88 Resp: 1827

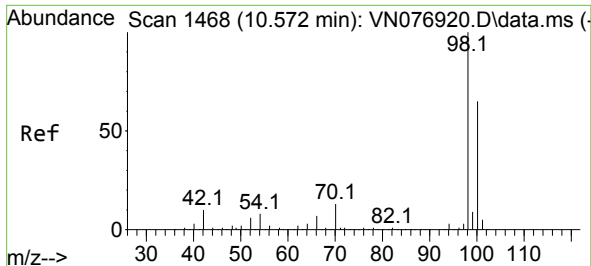
Ion Ratio Lower Upper

88 100

43 27.6 15.3 22.9#

58 29.2 47.6 71.4#

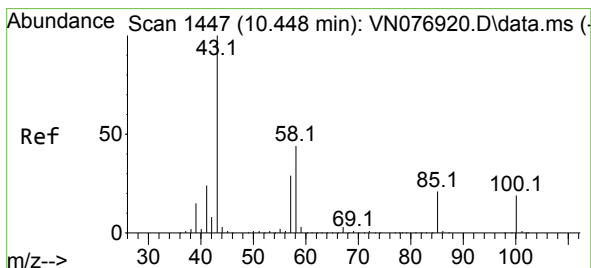
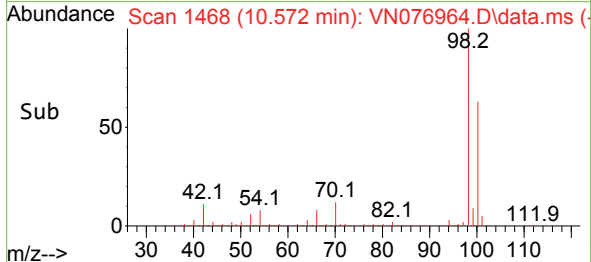
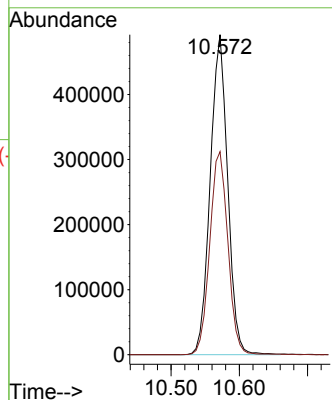
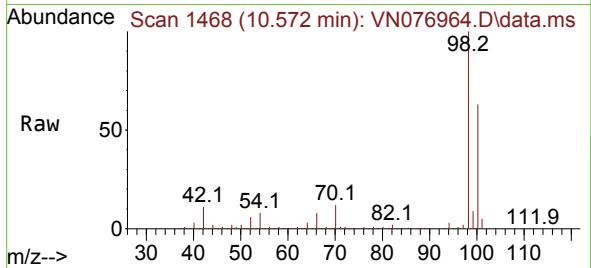




#50
Toluene-d8
Concen: 48.029 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

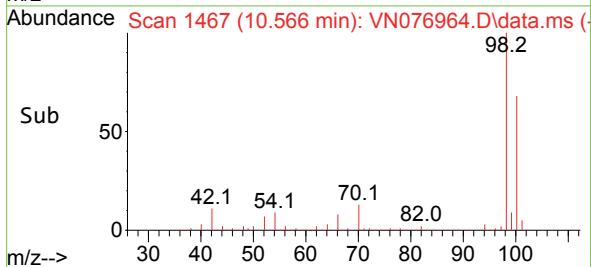
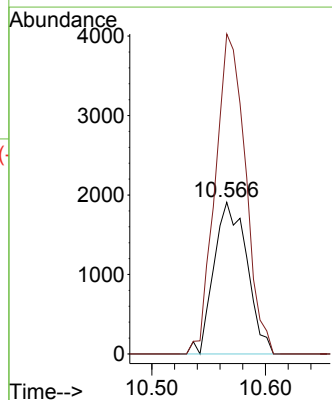
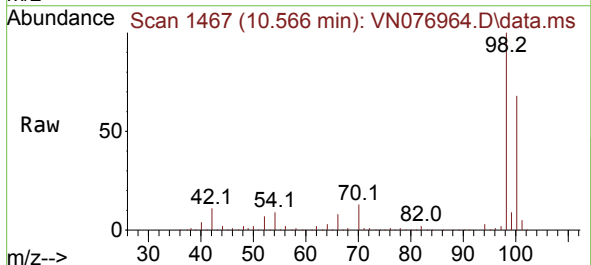
Instrument :
MSVOA_N
ClientSampleId :
RE115D1-20230309

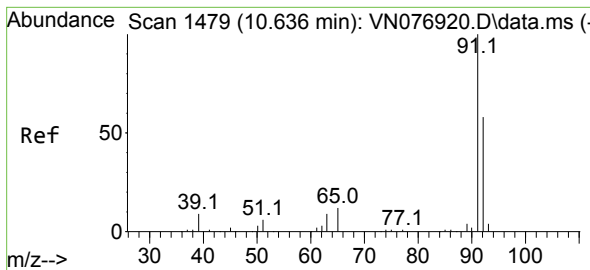
Tgt Ion: 98 Resp: 876300
Ion Ratio Lower Upper
98 100
100 66.0 52.8 79.2



#51
4-Methyl-2-Pentanone
Concen: 0.595 ug/l
RT: 10.566 min Scan# 1467
Delta R.T. 0.118 min
Lab File: VN076964.D
Acq: 13 Mar 2023 16:08

Tgt Ion: 43 Resp: 3863
Ion Ratio Lower Upper
43 100
58 193.1 37.4 56.0#





#52

Toluene

Concen: 0.255 ug/l

RT: 10.636 min Scan# 1479

Delta R.T. 0.000 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

Instrument :

MSVOA_N

ClientSampleId :

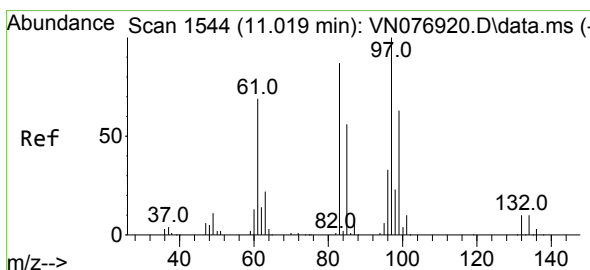
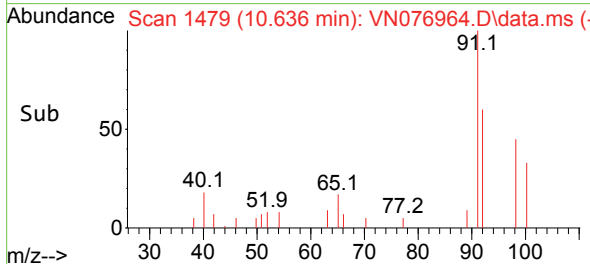
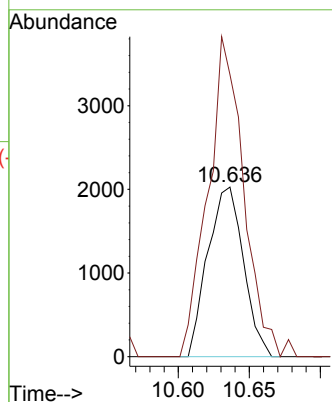
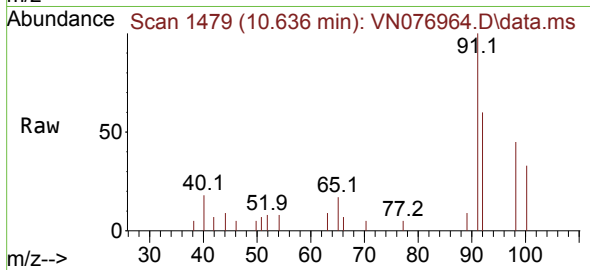
RE115D1-20230309

Tgt Ion: 92 Resp: 3545

Ion Ratio Lower Upper

92 100

91 189.4 138.2 207.2



#55

1,1,2-Trichloroethane

Concen: 0.700 ug/l

RT: 11.019 min Scan# 1544

Delta R.T. -0.000 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

Tgt Ion: 97 Resp: 3782

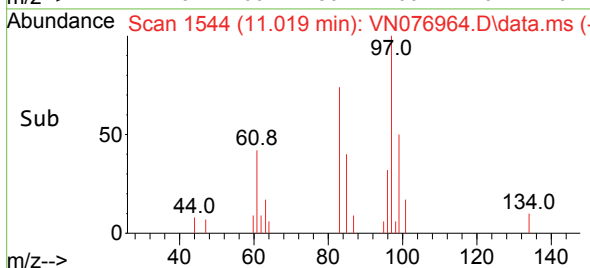
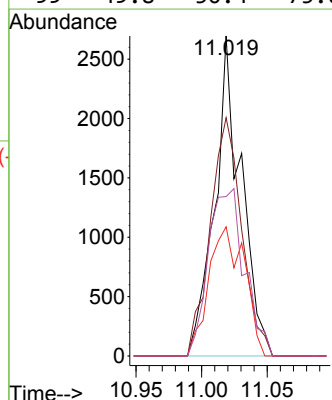
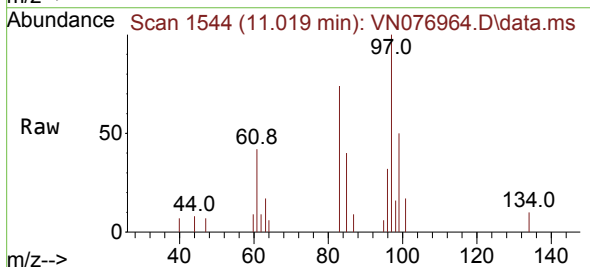
Ion Ratio Lower Upper

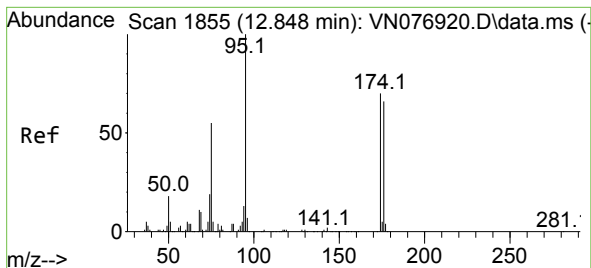
97 100

83 74.4 67.1 100.7

85 40.4 41.8 62.8#

99 49.8 50.4 75.6#





#62

4-Bromofluorobenzene

Concen: 47.606 ug/l

RT: 12.854 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

Instrument :

MSVOA_N

ClientSampleId :

RE115D1-20230309

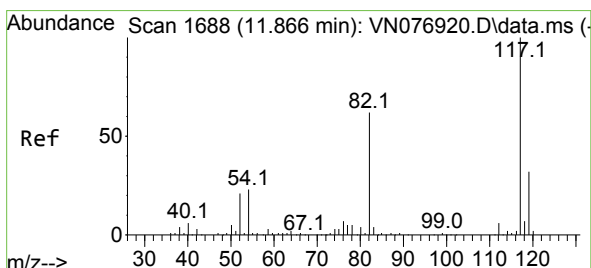
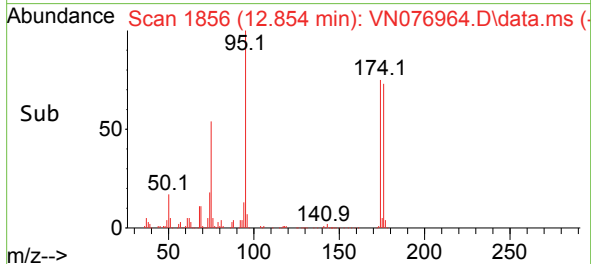
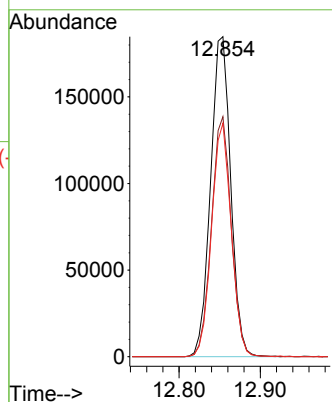
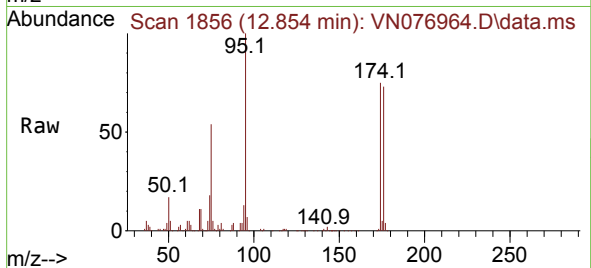
Tgt Ion: 95 Resp: 317697

Ion Ratio Lower Upper

95 100

174 73.8 0.0 162.4

176 71.3 0.0 157.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.872 min Scan# 1689

Delta R.T. 0.006 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

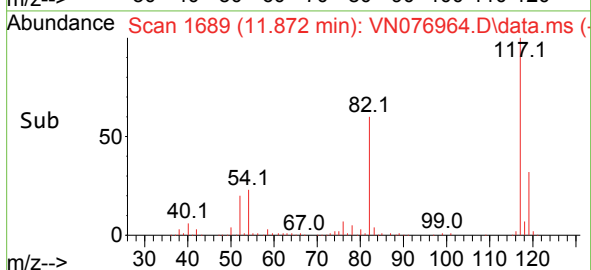
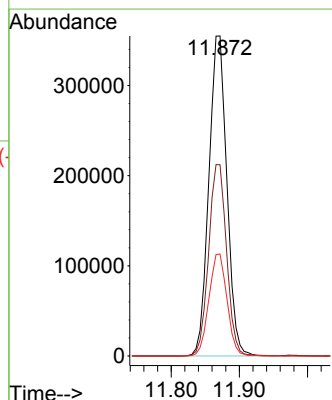
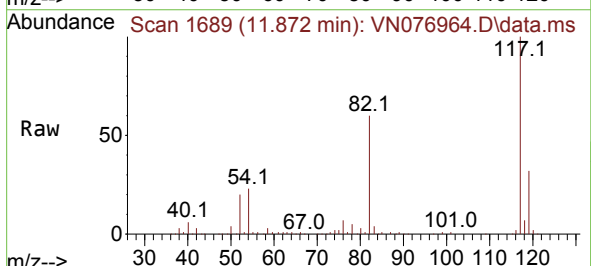
Tgt Ion: 117 Resp: 652894

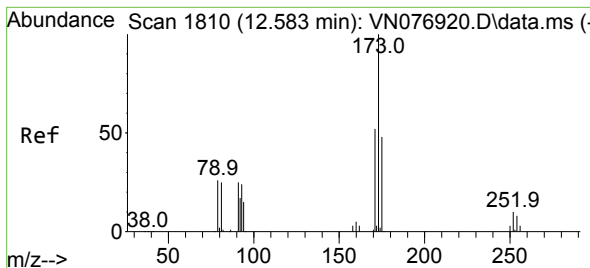
Ion Ratio Lower Upper

117 100

82 59.8 43.5 65.3

119 31.9 25.5 38.3





#71

Bromoform

Concen: 0.541 ug/l

RT: 12.848 min Scan# 1855

Delta R.T. 0.265 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

Instrument :

MSVOA_N

ClientSampleId :

RE115D1-20230309

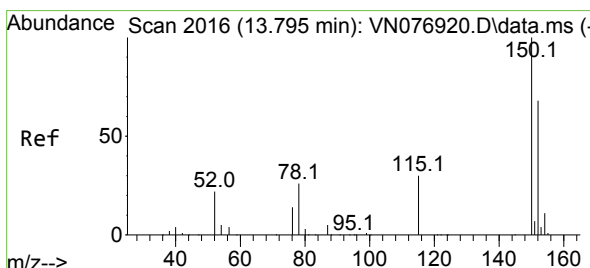
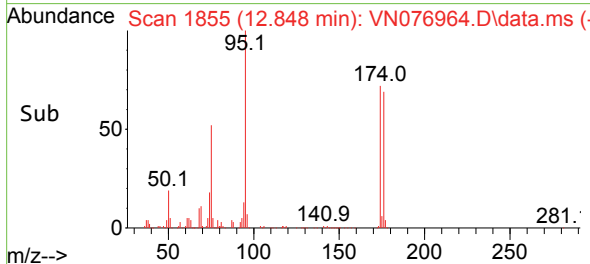
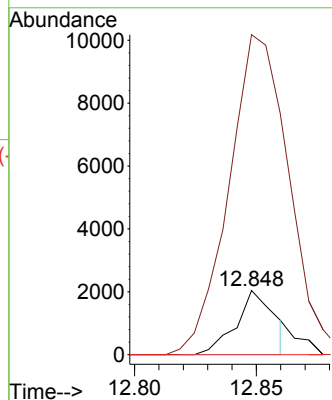
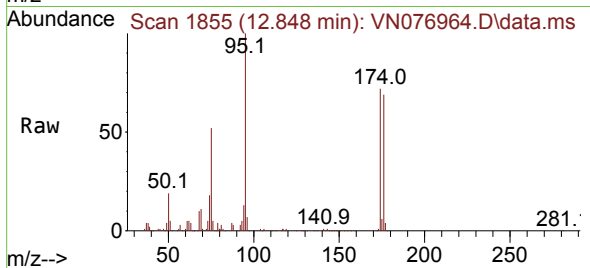
Tgt Ion:173 Resp: 2234

Ion Ratio Lower Upper

173 100

175 661.3 24.9 74.6#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.795 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

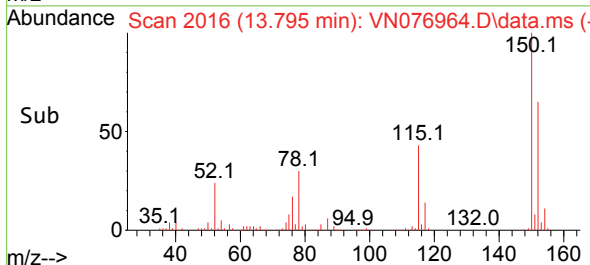
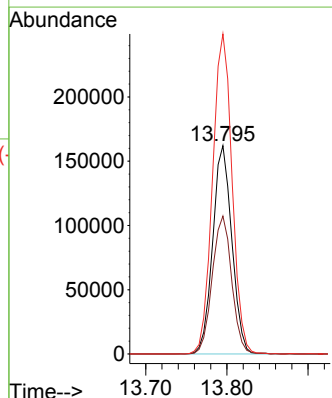
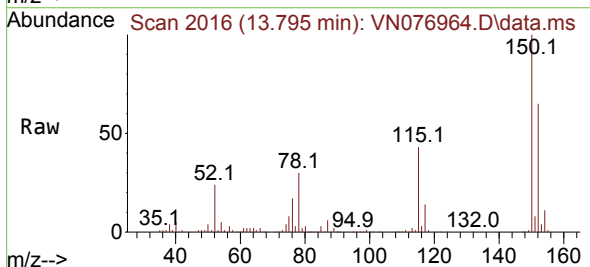
Tgt Ion:152 Resp: 265270

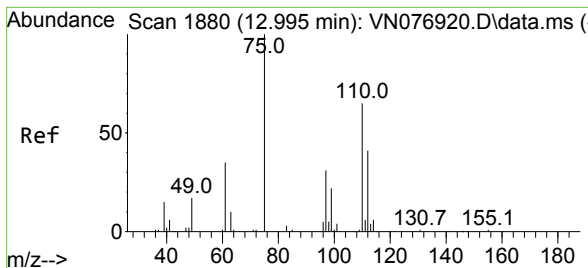
Ion Ratio Lower Upper

152 100

115 67.3 30.3 90.9

150 156.6 0.0 353.6





#76

1,2,3-Trichloropropane

Concen: 26.236 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

Instrument :

MSVOA_N

ClientSampleId :

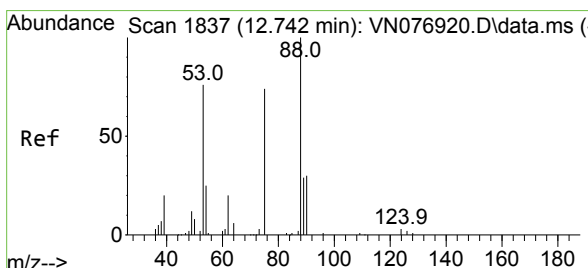
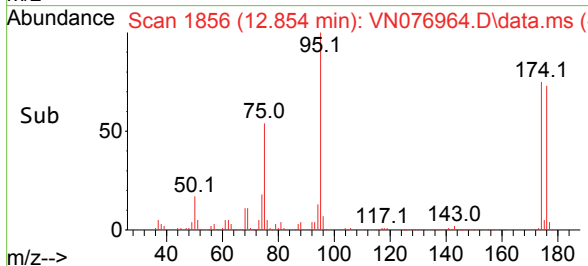
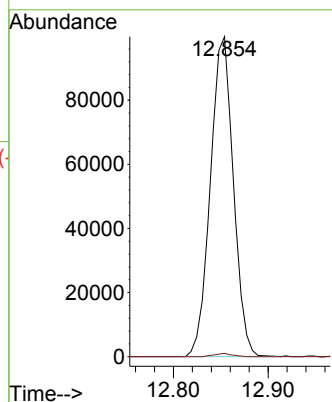
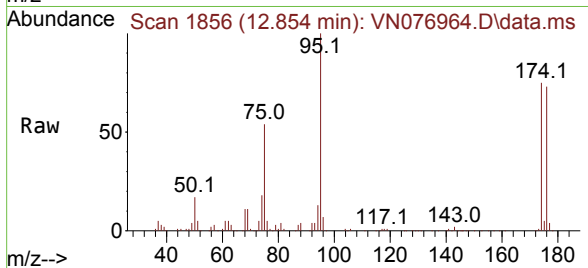
RE115D1-20230309

Tgt Ion: 75 Resp: 168731

Ion Ratio Lower Upper

75 100

77 0.8 93.8 281.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 85.700 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.112 min

Lab File: VN076964.D

Acq: 13 Mar 2023 16:08

Tgt Ion: 75 Resp: 168731

Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.0#

89 0.0 39.5 59.3#

