

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
 Data File : VN076692.D
 Acq On : 15 Feb 2023 18:04
 Operator : JC\MD
 Sample : 01547-01 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 16 04:34:43 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 16 01:08:46 2023
 Response via : Initial Calibration

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

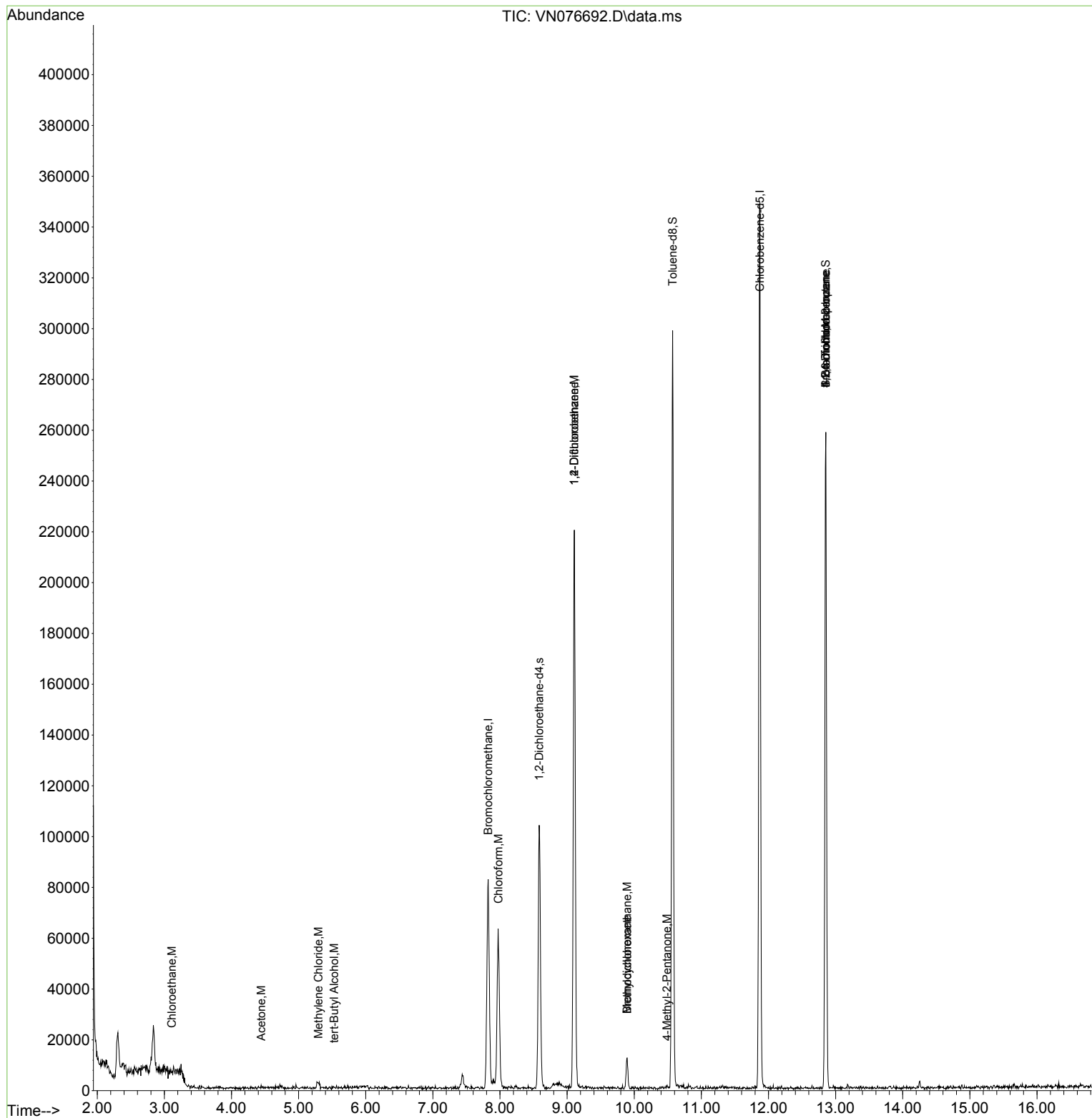
Internal Standards						
1) Bromochloromethane	7.825	128	26546	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	177421	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	190322	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	79804	32.869	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	109.567%
60) 4-Bromofluorobenzene	12.854	95	82361	24.466	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	81.567%
63) Toluene-d8	10.571	98	193494	29.025	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.767%
Target Compounds						
					Qvalue	
6) Chloroethane	3.113	64	569	0.238	ug/l	91
15) Acetone	4.442	58	128	0.240	ug/l #	19
18) Methylene Chloride	5.295	84	821	0.248	ug/l #	50
23) tert-Butyl Alcohol	5.531	59	158	0.332	ug/l #	100
25) Chloroform	7.978	83	55372	9.735	ug/l	85
36) 1,2-Dichloroethane	9.107	62	6973	1.612	ug/l #	75
38) Methylcyclohexane	9.895	83	8104	1.591	ug/l #	18
41) Bromodichloromethane	9.895	83	8104	1.887	ug/l #	94
56) Bromoform	12.854	173	1123	0.510	ug/l #	1
58) 4-Methyl-2-Pentanone	10.489	43	1468	0.324	ug/l #	46
72) 1,2,3-Trichloropropane	12.854	75	45235	11.291	ug/l	1
77) t-1,4-Dichloro-2-butene	12.854	75	45235	35.142	ug/l #	9

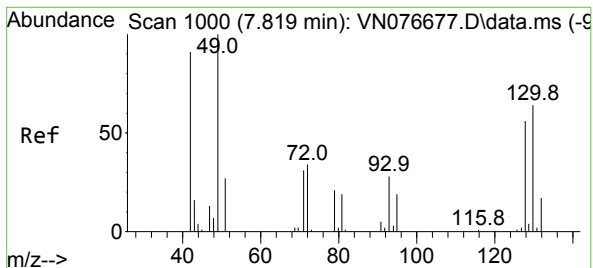
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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QLast Update : Thu Feb 16 01:08:46 2023
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.825 min Scan# 1

Delta R.T. 0.006 min

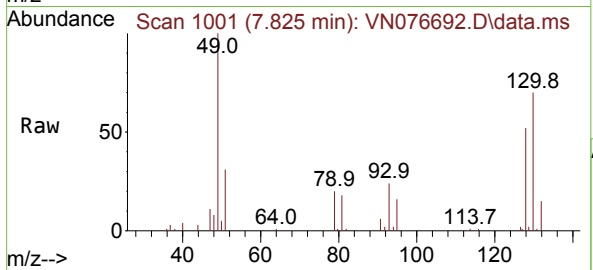
Lab File: VN076692.D

Acq: 15 Feb 2023 18:04

Instrument :

MSVOA_N

ClientSampleId :



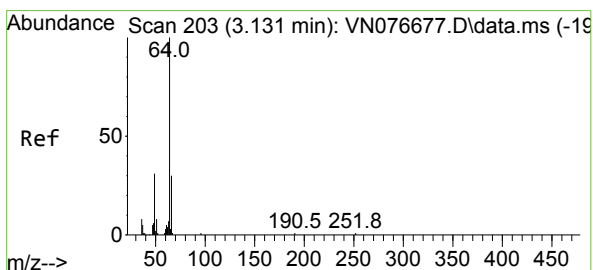
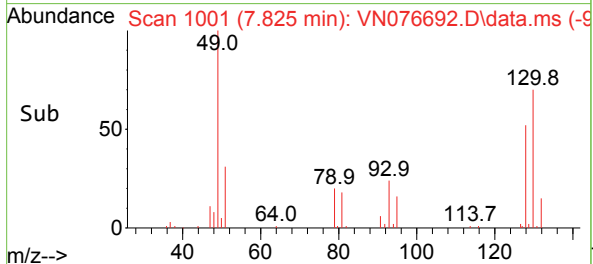
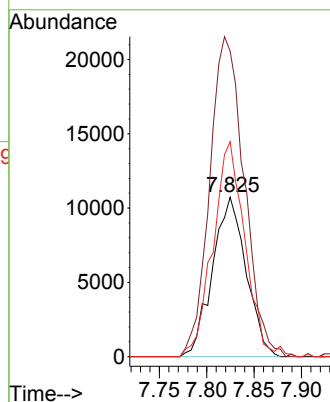
Tgt Ion:128 Resp: 26546

Ion Ratio Lower Upper

128 100

49 205.5 0.0 461.8

130 127.1 0.0 295.3



#6

Chloroethane

Concen: 0.238 ug/l

RT: 3.113 min Scan# 200

Delta R.T. -0.018 min

Lab File: VN076692.D

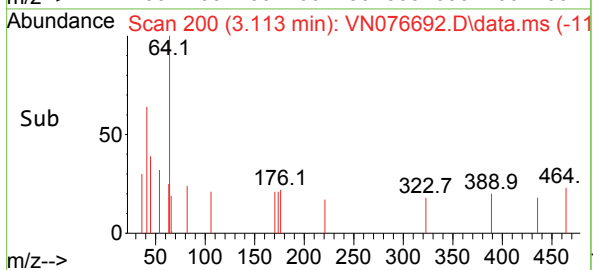
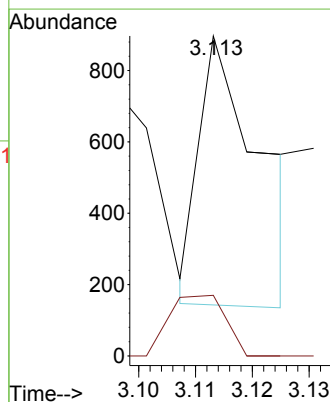
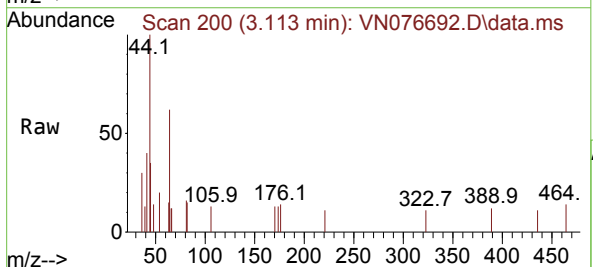
Acq: 15 Feb 2023 18:04

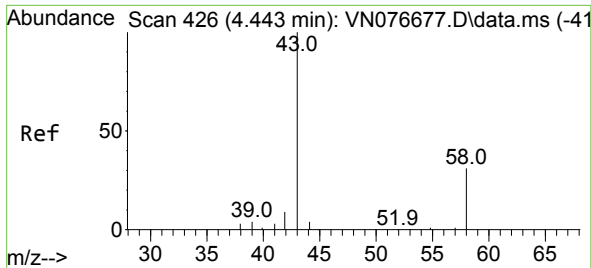
Tgt Ion: 64 Resp: 569

Ion Ratio Lower Upper

64 100

66 25.0 23.8 35.6





#15

Acetone

Concen: 0.240 ug/l

RT: 4.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN076692.D

Acq: 15 Feb 2023 18:04

Instrument :

MSVOA_N

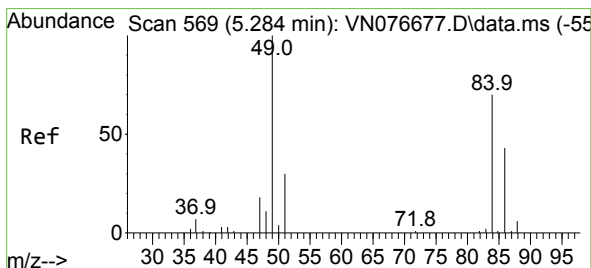
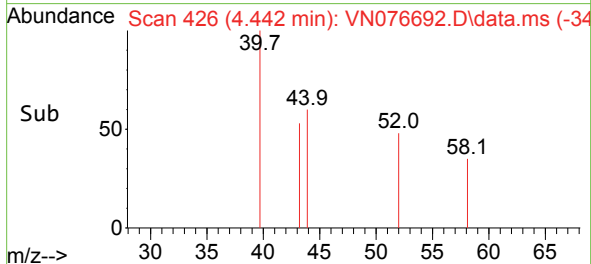
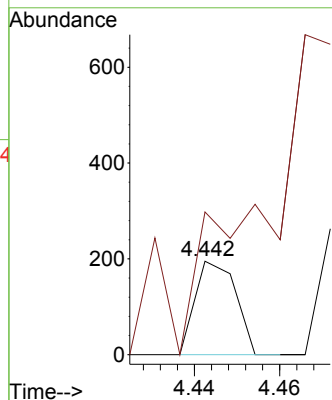
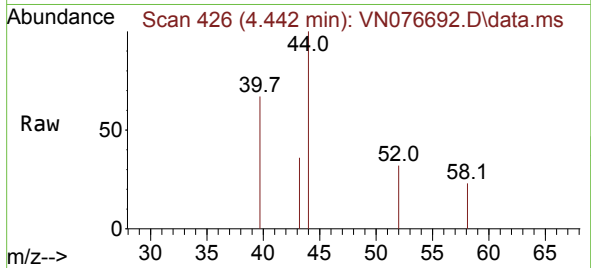
ClientSampleId :

Tgt Ion: 58 Resp: 128

Ion Ratio Lower Upper

58 100

43 152.8 255.4 383.0#



#18

Methylene Chloride

Concen: 0.248 ug/l

RT: 5.295 min Scan# 571

Delta R.T. 0.012 min

Lab File: VN076692.D

Acq: 15 Feb 2023 18:04

Tgt Ion: 84 Resp: 821

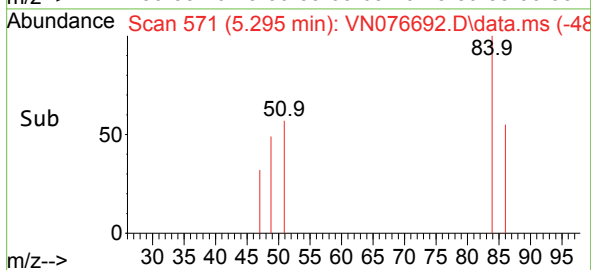
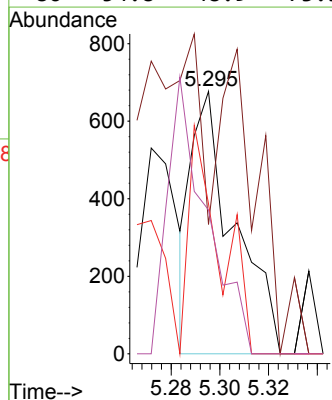
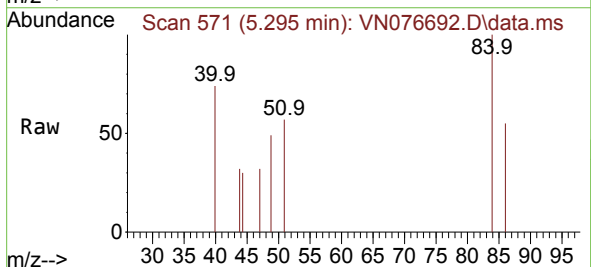
Ion Ratio Lower Upper

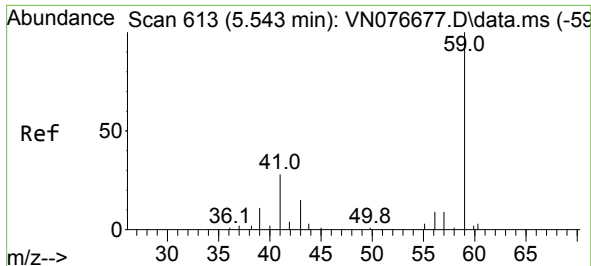
84 100

49 49.3 113.8 170.6#

51 57.2 34.2 51.4#

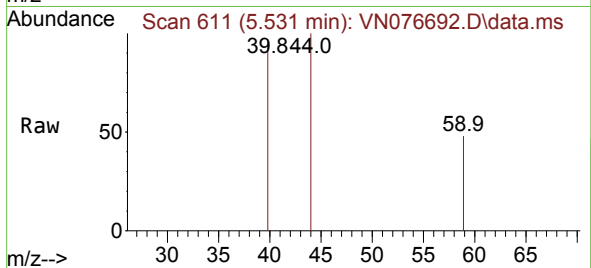
86 54.8 48.9 73.3



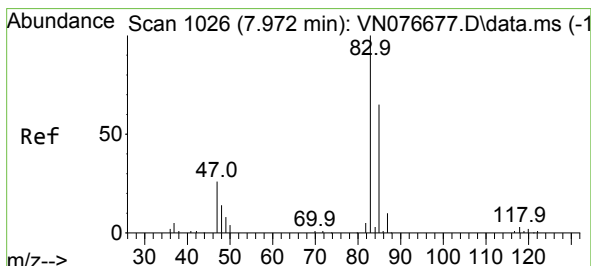
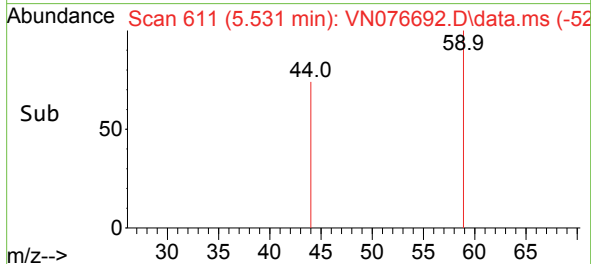
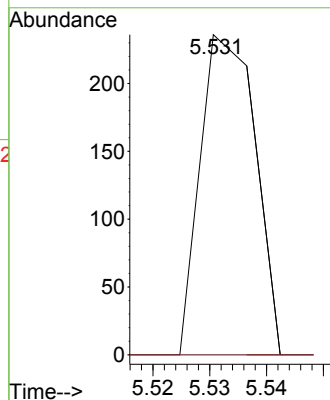


#23
tert-Butyl Alcohol
Concen: 0.332 ug/l
RT: 5.531 min Scan# 611
Delta R.T. -0.012 min
Lab File: VN076692.D
Acq: 15 Feb 2023 18:04

Instrument :
MSVOA_N
ClientSampleId :

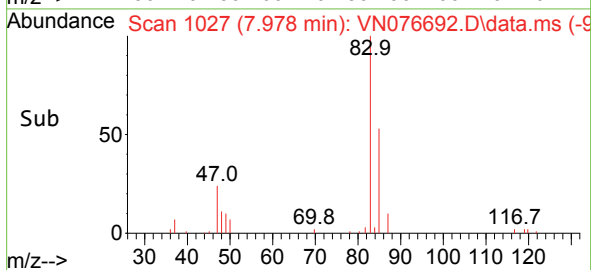
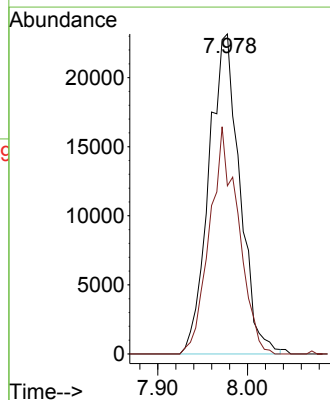
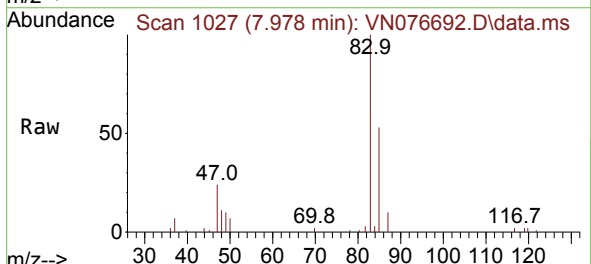


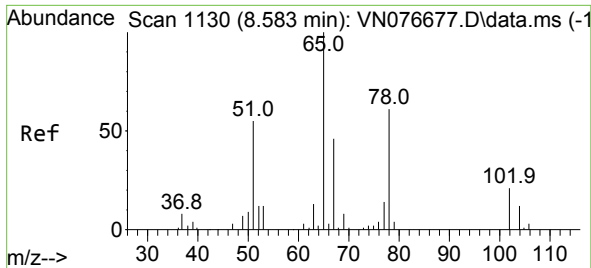
Tgt Ion: 59 Resp: 158
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#



#25
Chloroform
Concen: 9.735 ug/l
RT: 7.978 min Scan# 1027
Delta R.T. 0.006 min
Lab File: VN076692.D
Acq: 15 Feb 2023 18:04

Tgt Ion: 83 Resp: 55372
Ion Ratio Lower Upper
83 100
85 52.6 51.8 77.6





#27

1,2-Dichloroethane-d4

Concen: 32.869 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VN076692.D

Acq: 15 Feb 2023 18:04

Instrument :

MSVOA_N

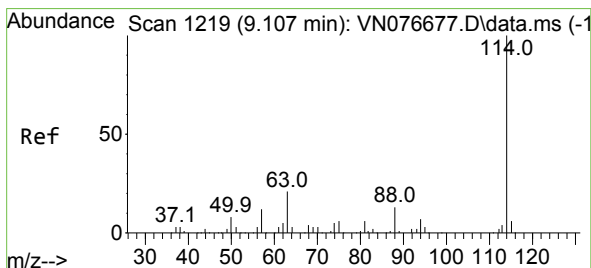
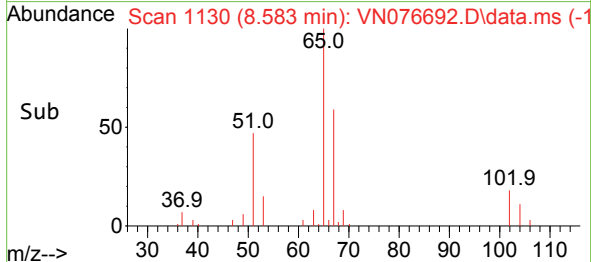
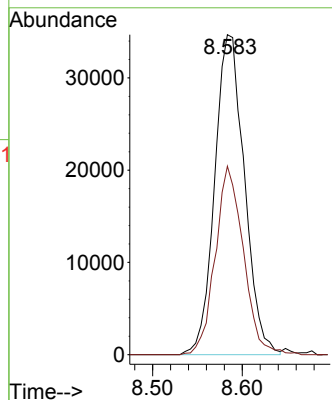
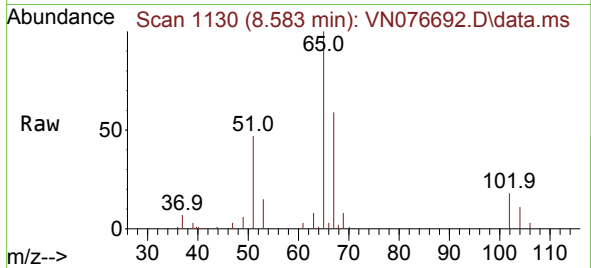
ClientSampleId :

Tgt Ion: 65 Resp: 79804

Ion Ratio Lower Upper

65 100

67 55.7 40.9 61.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. -0.000 min

Lab File: VN076692.D

Acq: 15 Feb 2023 18:04

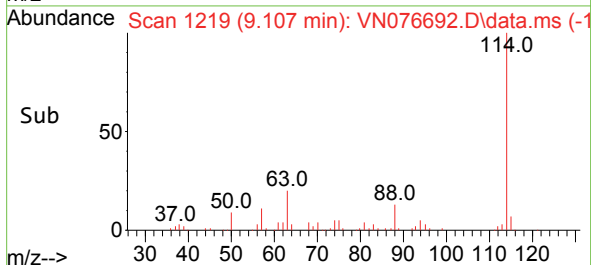
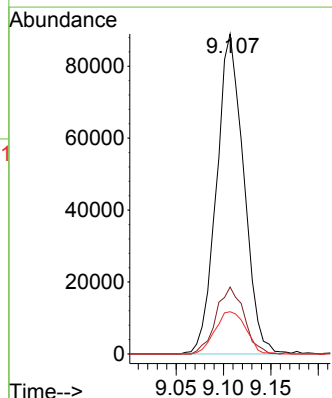
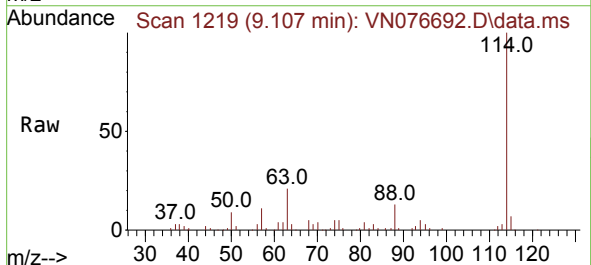
Tgt Ion: 114 Resp: 177421

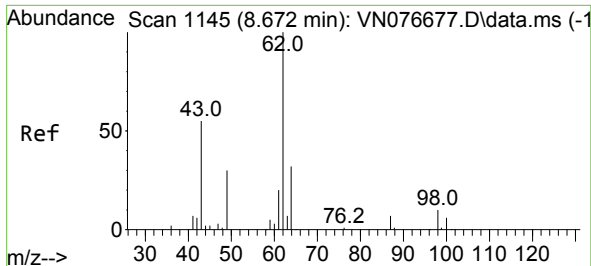
Ion Ratio Lower Upper

114 100

63 21.6 17.0 25.4

88 14.9 11.6 17.4





#36

1,2-Dichloroethane

Concen: 1.612 ug/l

RT: 9.107 min Scan# 1145

Delta R.T. 0.435 min

Lab File: VN076692.D

Acq: 15 Feb 2023 18:04

Instrument :

MSVOA_N

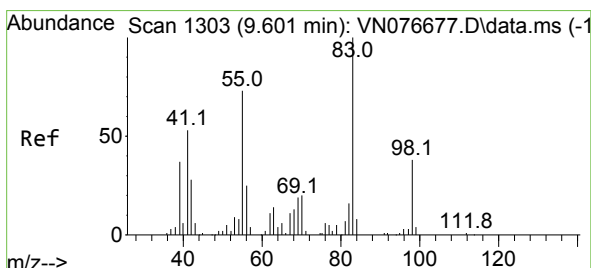
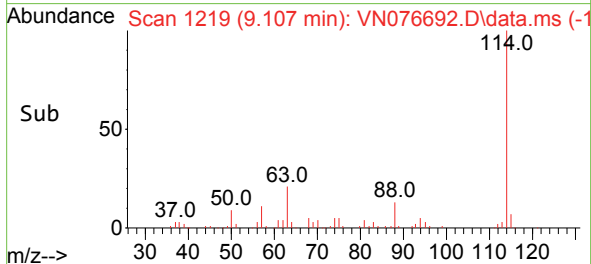
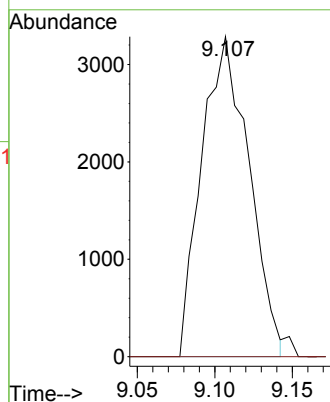
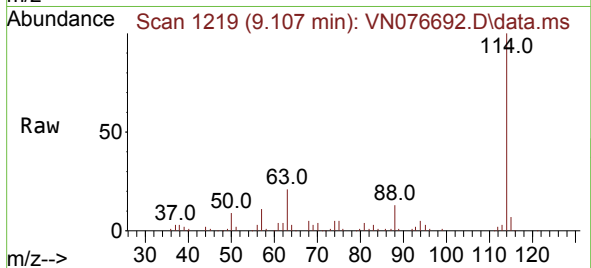
ClientSampleId :

Tgt Ion: 62 Resp: 6973

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



#38

Methylcyclohexane

Concen: 1.591 ug/l

RT: 9.895 min Scan# 1353

Delta R.T. 0.294 min

Lab File: VN076692.D

Acq: 15 Feb 2023 18:04

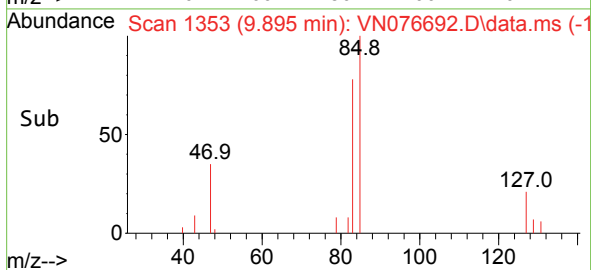
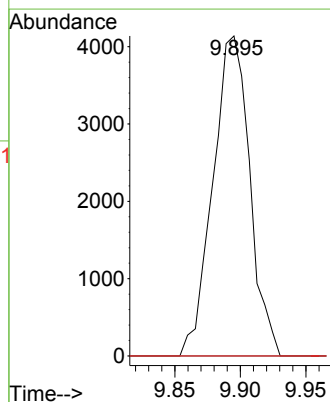
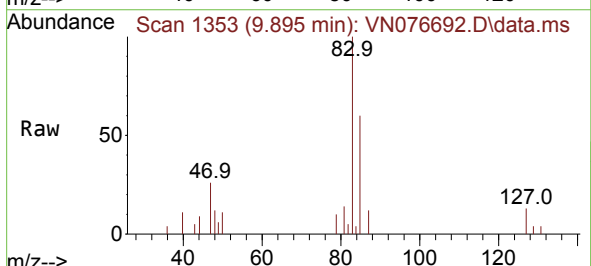
Tgt Ion: 83 Resp: 8104

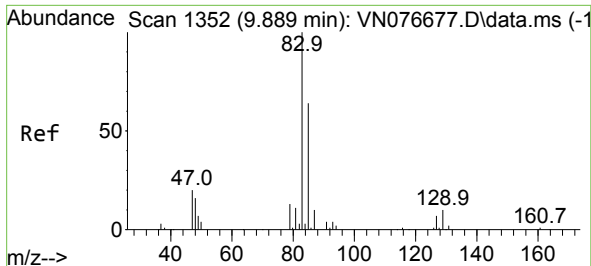
Ion Ratio Lower Upper

83 100

55 0.0 37.6 112.9#

98 0.0 24.1 72.4#

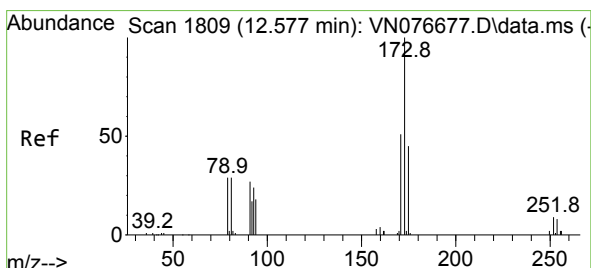
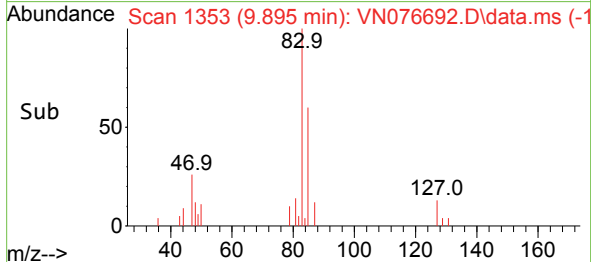
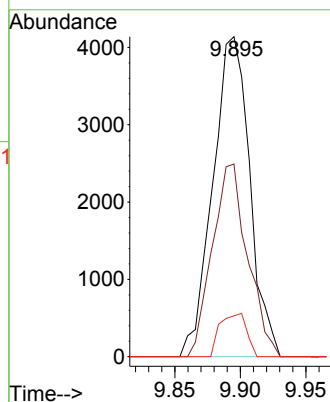
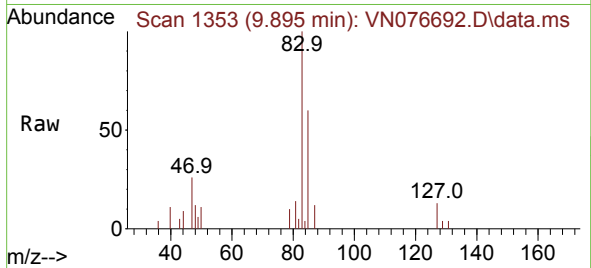




#41
Bromodichloromethane
Concen: 1.887 ug/l
RT: 9.895 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN076692.D
Acq: 15 Feb 2023 18:04

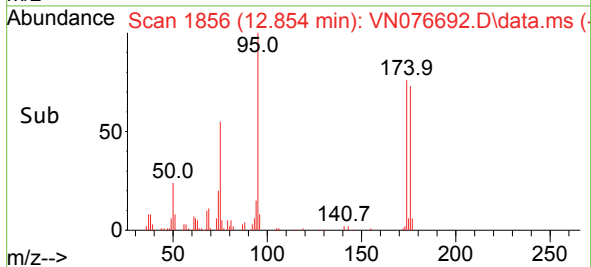
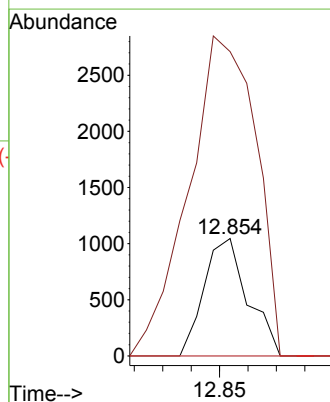
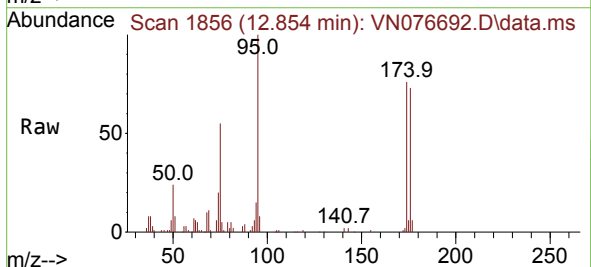
Instrument :
MSVOA_N
ClientSampleId :

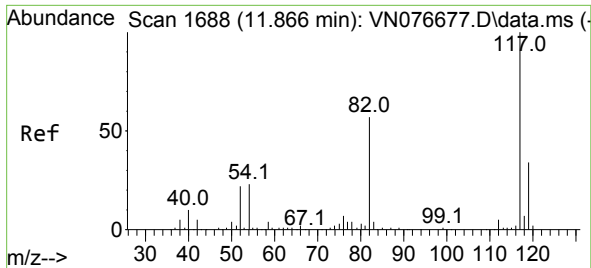
Tgt Ion: 83 Resp: 8104
Ion Ratio Lower Upper
83 100
85 60.2 51.0 76.4
127 12.8 6.2 9.2#



#56
Bromoform
Concen: 0.510 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.276 min
Lab File: VN076692.D
Acq: 15 Feb 2023 18:04

Tgt Ion: 173 Resp: 1123
Ion Ratio Lower Upper
173 100
175 418.1 37.8 56.6#
254 0.0 7.3 10.9#

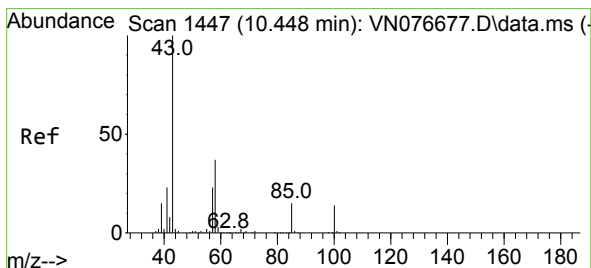
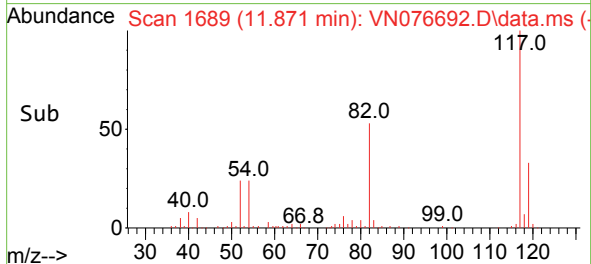
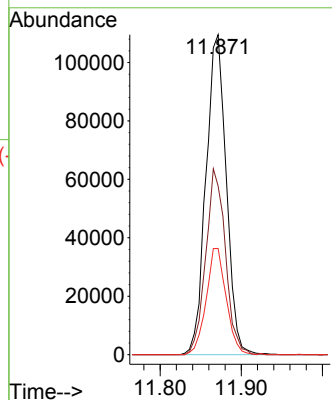
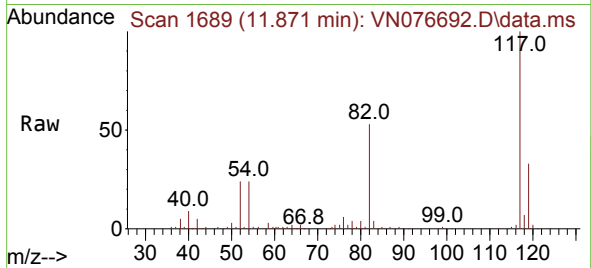




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN076692.D
Acq: 15 Feb 2023 18:04

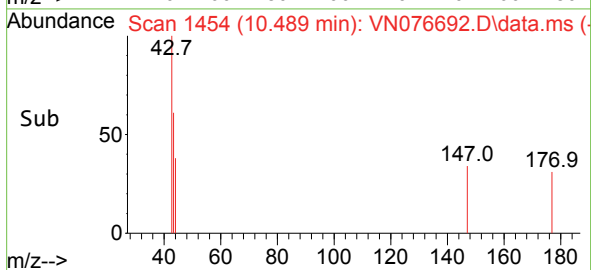
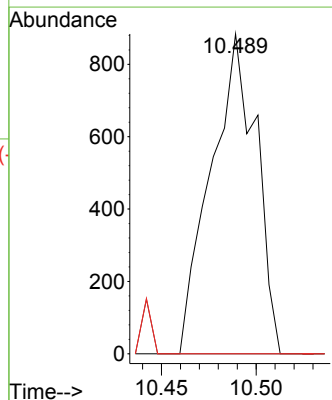
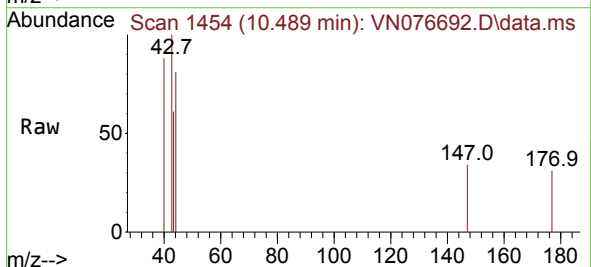
Instrument :
MSVOA_N
ClientSampleId :

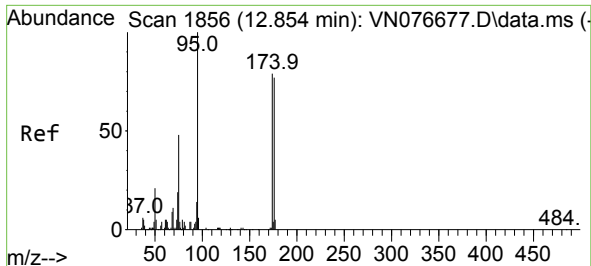
Tgt Ion:117 Resp: 190322
Ion Ratio Lower Upper
117 100
82 56.3 45.4 68.0
119 32.8 26.8 40.2



#58
4-Methyl-2-Pentanone
Concen: 0.324 ug/l
RT: 10.489 min Scan# 1454
Delta R.T. 0.041 min
Lab File: VN076692.D
Acq: 15 Feb 2023 18:04

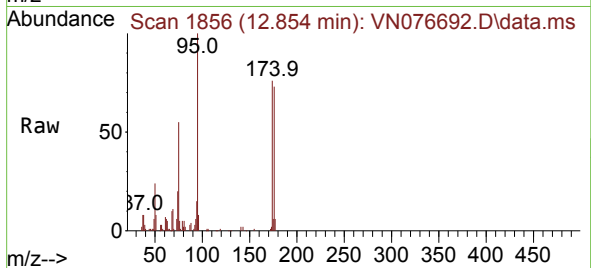
Tgt Ion: 43 Resp: 1468
Ion Ratio Lower Upper
43 100
58 0.0 28.6 42.8#
85 0.0 11.8 17.8#



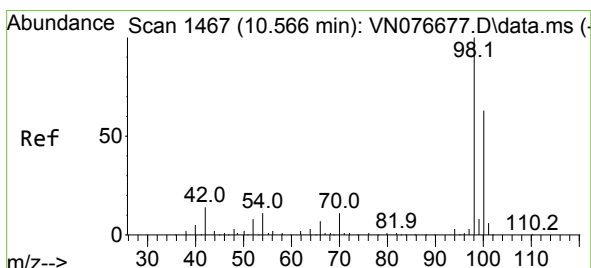
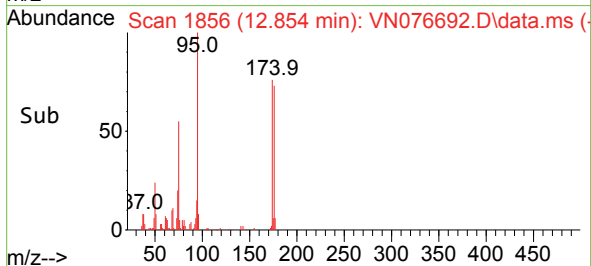
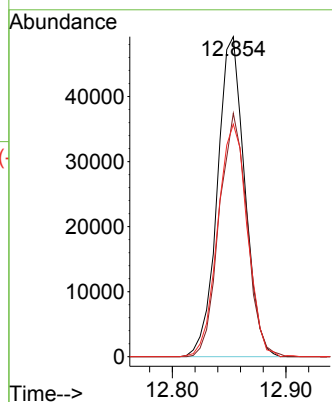


#60
4-Bromofluorobenzene
Concen: 24.466 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.000 min
Lab File: VN076692.D
Acq: 15 Feb 2023 18:04

Instrument :
MSVOA_N
ClientSampleId :

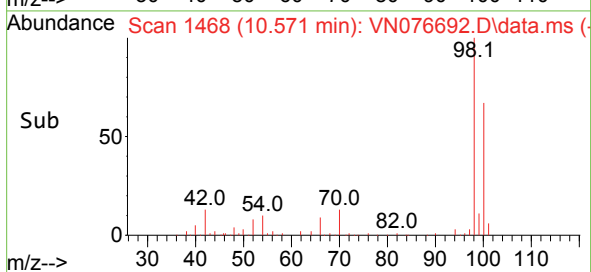
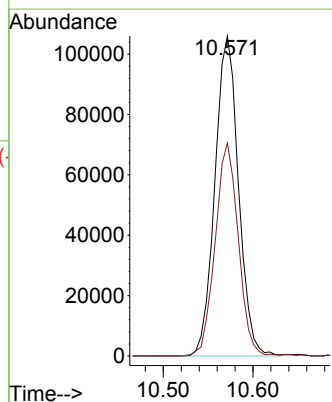
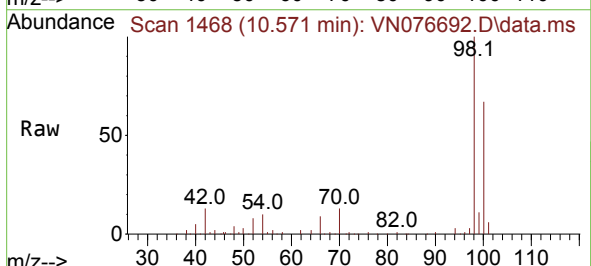


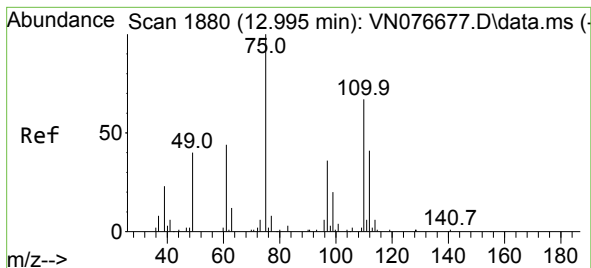
Tgt Ion: 95 Resp: 82361
Ion Ratio Lower Upper
95 100
174 77.0 64.2 96.4
176 78.4 61.4 92.0



#63
Toluene-d8
Concen: 29.025 ug/l
RT: 10.571 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN076692.D
Acq: 15 Feb 2023 18:04

Tgt Ion: 98 Resp: 193494
Ion Ratio Lower Upper
98 100
100 64.8 53.8 80.6





#72

1,2,3-Trichloropropane

Concen: 11.291 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. -0.141 min

Lab File: VN076692.D

Acq: 15 Feb 2023 18:04

Instrument :

MSVOA_N

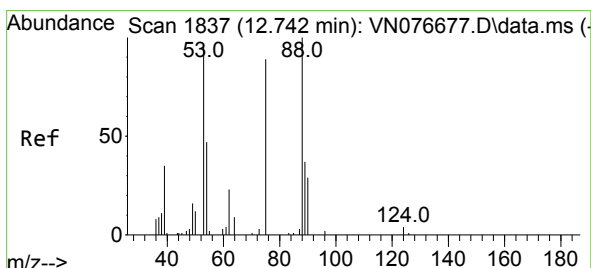
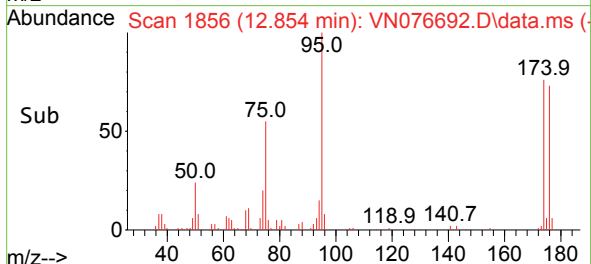
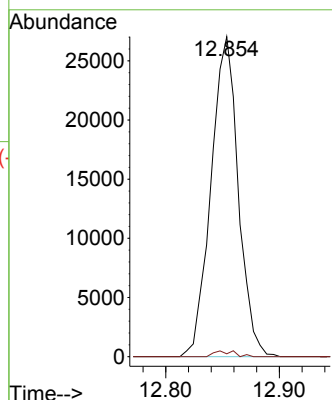
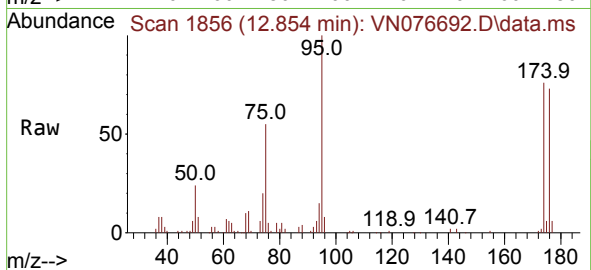
ClientSampleId :

Tgt Ion: 75 Resp: 45235

Ion Ratio Lower Upper

75 100

77 0.4 0.0 332.6



#77

t-1,4-Dichloro-2-butene

Concen: 35.142 ug/l

RT: 12.854 min Scan# 1856

Delta R.T. 0.112 min

Lab File: VN076692.D

Acq: 15 Feb 2023 18:04

Tgt Ion: 75 Resp: 45235

Ion Ratio Lower Upper

75 100

53 0.0 50.4 151.3#

89 0.0 22.1 66.5#

