

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021723\
 Data File : VN076739.D
 Acq On : 17 Feb 2023 17:04
 Operator : JC\MD
 Sample : 01609-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EFF-WW

Quant Time: Feb 18 02:12:48 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)

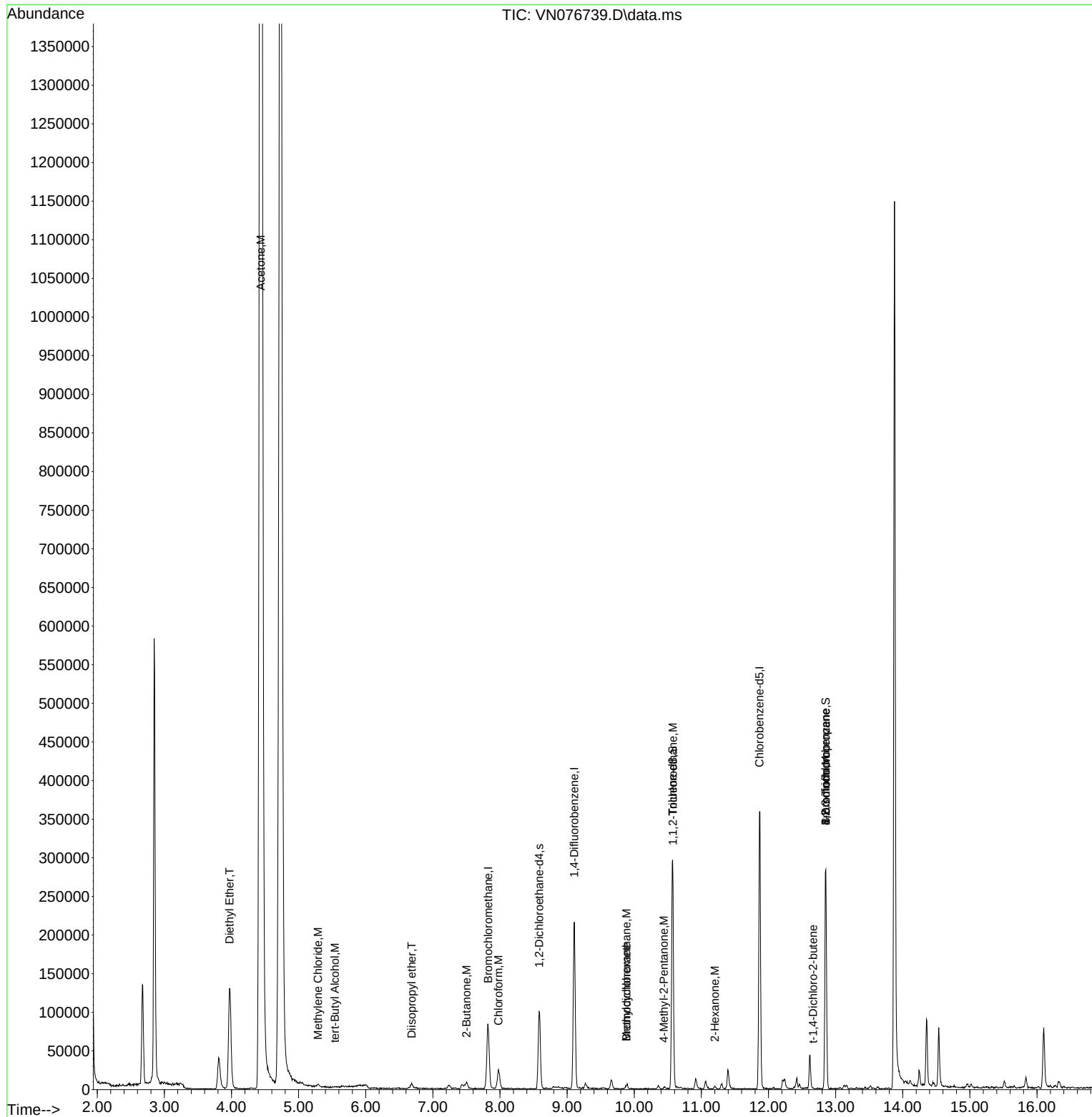
Internal Standards						
1) Bromochloromethane	7.825	128	25467	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	175222	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	195604	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	78518	33.710	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	112.367%#
60) 4-Bromofluorobenzene	12.854	95	92124	26.627	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	88.767%
63) Toluene-d8	10.572	98	197686	28.853	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.167%
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.972	74	75733	43.350	ug/l	99
15) Acetone	4.437	58	1745418	3409.274	ug/l	94
18) Methylene Chloride	5.290	84	646	0.204	ug/l #	58
20) Diisopropyl ether	6.684	45	3486	0.328	ug/l #	82
23) tert-Butyl Alcohol	5.543	59	509	1.114	ug/l #	100
25) Chloroform	7.978	83	16258	2.980	ug/l	95
30) 2-Butanone	7.501	43	13191	5.658	ug/l #	84
38) Methylcyclohexane	9.883	83	1518	0.302	ug/l #	23
41) Bromodichloromethane	9.883	83	1518	0.358	ug/l #	87
50) 1,1,2-Trichloroethane	10.578	97	7486	2.435	ug/l #	1
56) Bromoform	12.854	173	1878	0.863	ug/l #	1
58) 4-Methyl-2-Pentanone	10.442	43	1269	0.273	ug/l #	70
59) 2-Hexanone	11.201	43	2496	0.721	ug/l #	76
72) 1,2,3-Trichloropropane	12.854	75	51085	12.407	ug/l	1
77) t-1,4-Dichloro-2-butene	12.666	75	416	0.314	ug/l #	9

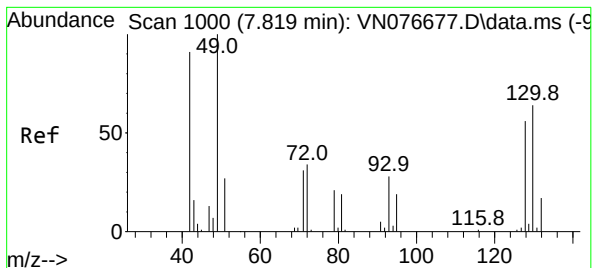
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN076739.D

Acq: 17 Feb 2023 17:04

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

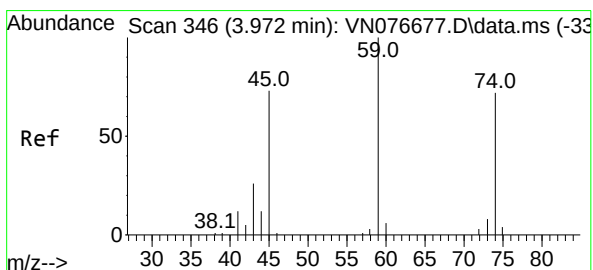
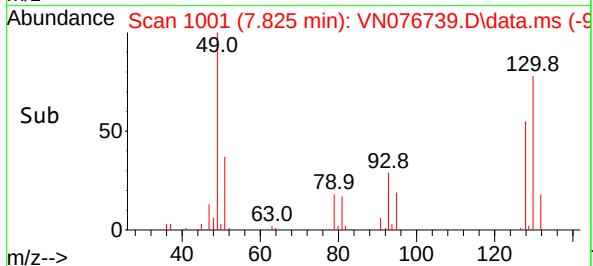
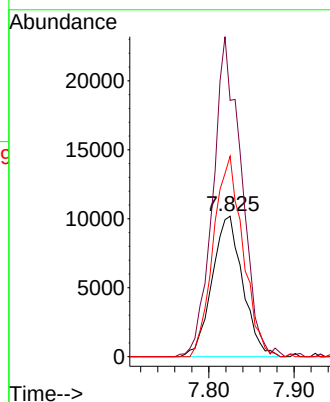
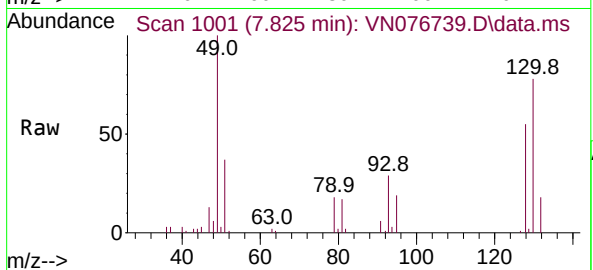
Tgt Ion:128 Resp: 25467

Ion Ratio Lower Upper

128 100

49 210.5 0.0 461.8

130 137.9 0.0 295.3



#8

Diethyl Ether

Concen: 43.350 ug/l

RT: 3.972 min Scan# 346

Delta R.T. 0.000 min

Lab File: VN076739.D

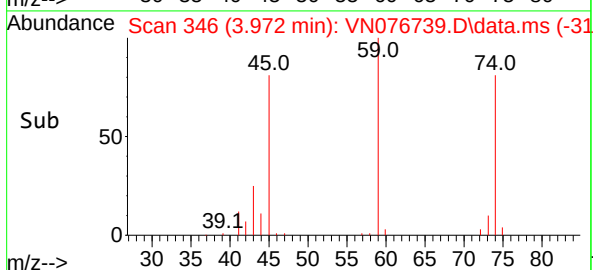
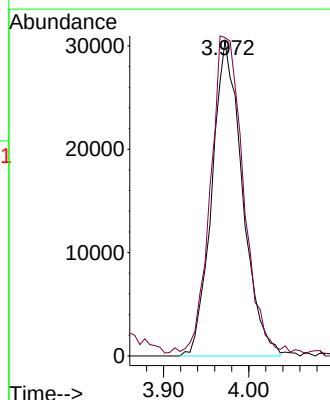
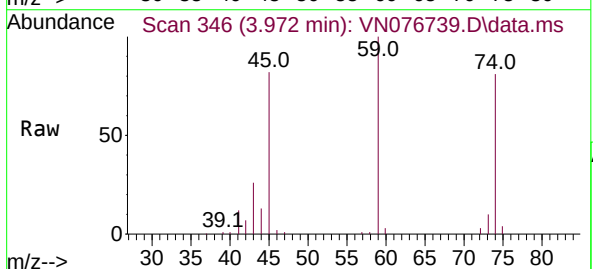
Acq: 17 Feb 2023 17:04

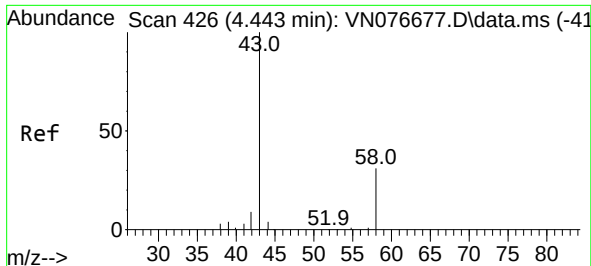
Tgt Ion: 74 Resp: 75733

Ion Ratio Lower Upper

74 100

45 106.3 21.4 193.0





#15

Acetone

Concen: 3409.274 ug/l

RT: 4.437 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN076739.D

Acq: 17 Feb 2023 17:04

Instrument :

MSVOA_N

ClientSampleId :

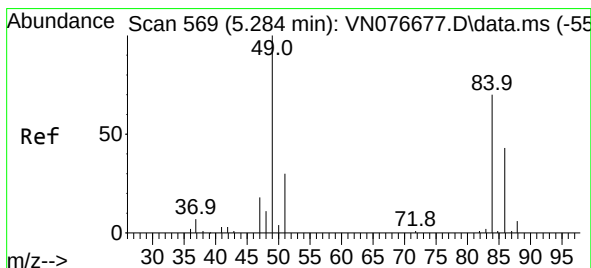
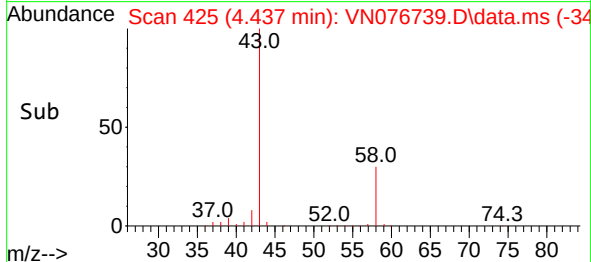
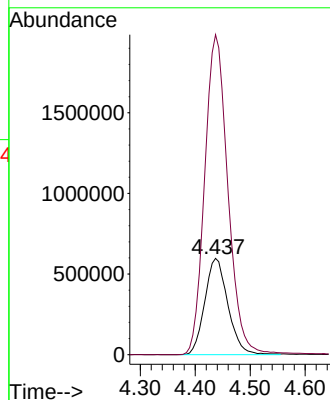
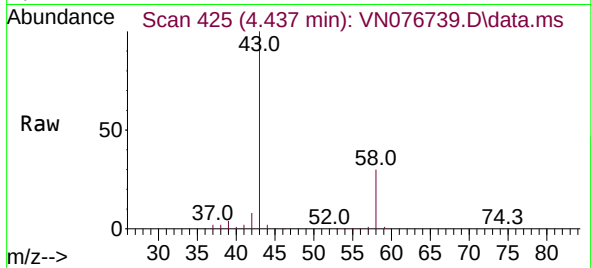
EFF-WW

Tgt Ion: 58 Resp: 1745418

Ion Ratio Lower Upper

58 100

43 332.5 255.4 383.0



#18

Methylene Chloride

Concen: 0.204 ug/l

RT: 5.290 min Scan# 570

Delta R.T. 0.006 min

Lab File: VN076739.D

Acq: 17 Feb 2023 17:04

Tgt Ion: 84 Resp: 646

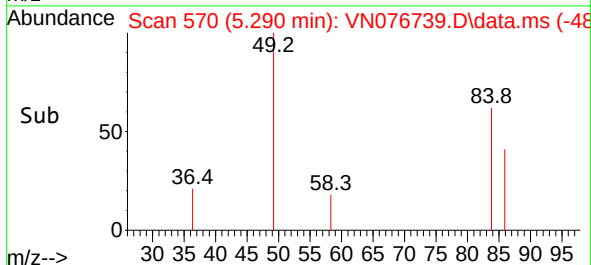
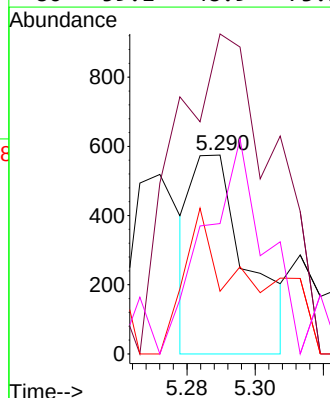
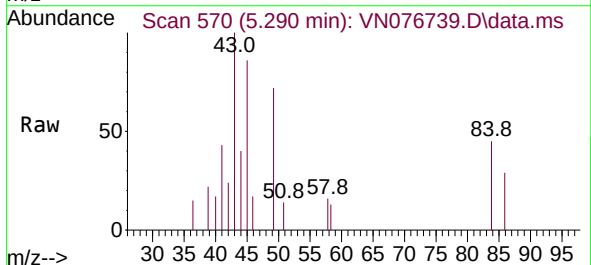
Ion Ratio Lower Upper

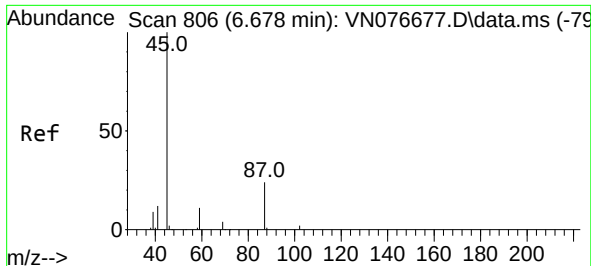
84 100

49 79.3 113.8 170.6#

51 0.0 34.2 51.4#

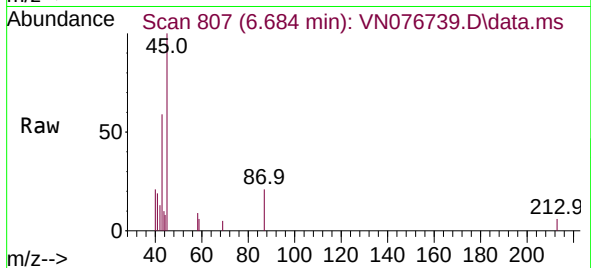
86 59.1 48.9 73.3



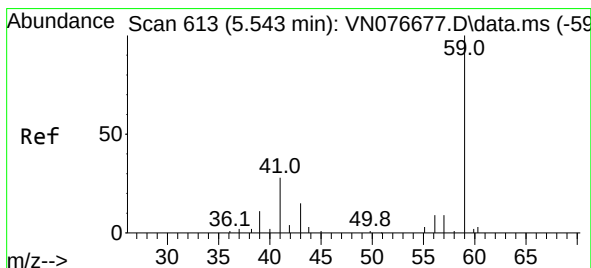
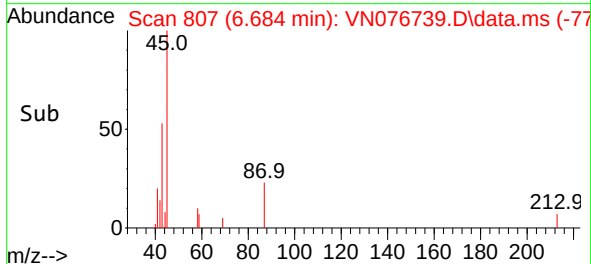
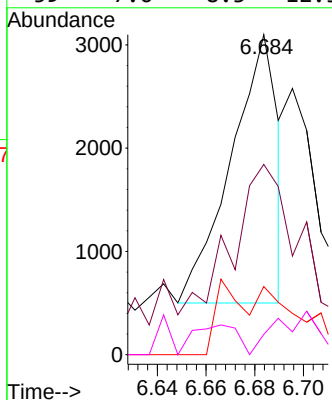


#20
Diisopropyl ether
Concen: 0.328 ug/l
RT: 6.684 min Scan# 807
Delta R.T. 0.006 min
Lab File: VN076739.D
Acq: 17 Feb 2023 17:04

Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

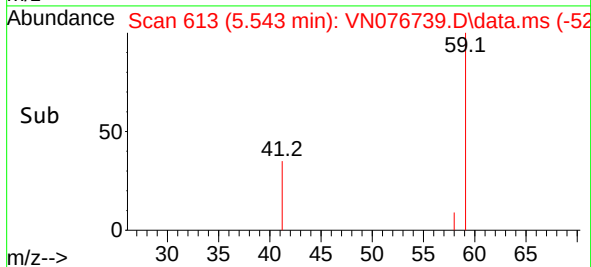
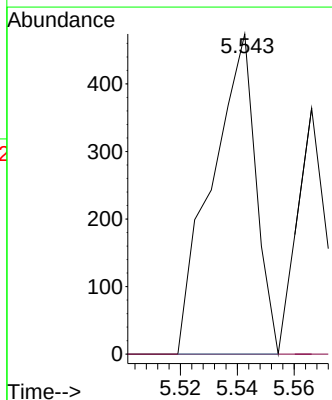
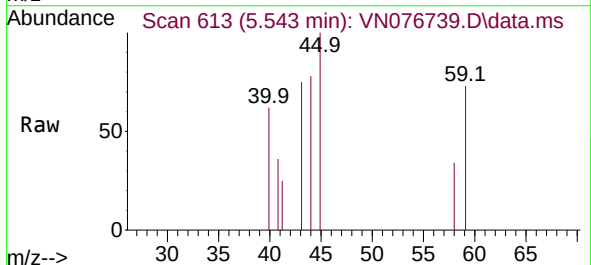


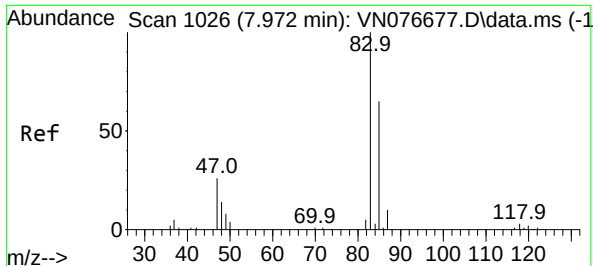
Tgt Ion: 45	Resp: 3486
Ion Ratio	Lower Upper
45 100	
43 68.4	38.6 58.0#
87 25.4	20.1 30.1
59 7.6	8.3 12.5#



#23
tert-Butyl Alcohol
Concen: 1.114 ug/l
RT: 5.543 min Scan# 613
Delta R.T. 0.000 min
Lab File: VN076739.D
Acq: 17 Feb 2023 17:04

Tgt Ion: 59	Resp: 509
Ion Ratio	Lower Upper
59 100	
52 0.0	0.2 0.2#





#25

Chloroform

Concen: 2.980 ug/l

RT: 7.978 min Scan# 1026

Delta R.T. 0.006 min

Lab File: VN076739.D

Acq: 17 Feb 2023 17:04

Instrument :

MSVOA_N

ClientSampleId :

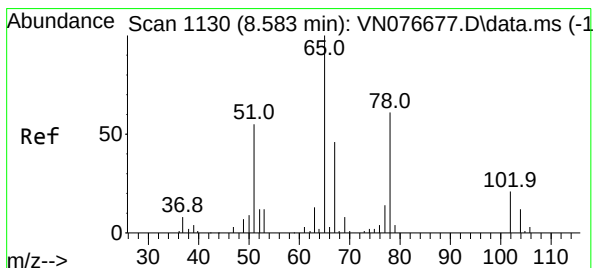
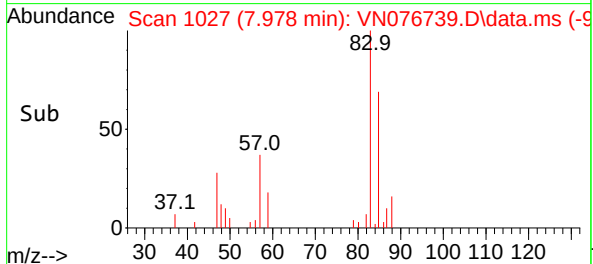
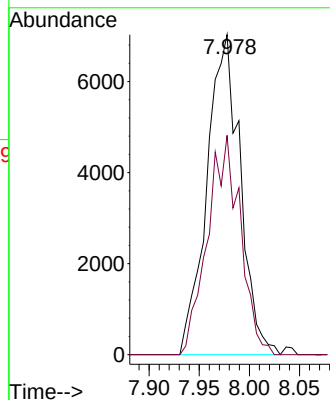
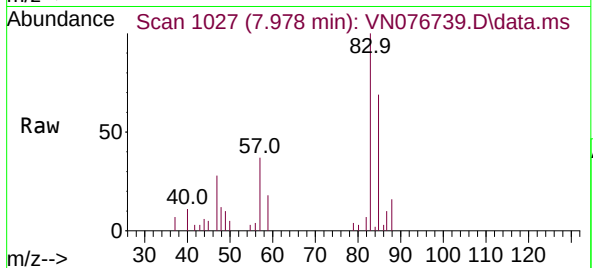
EFF-WW

Tgt Ion: 83 Resp: 16258

Ion Ratio Lower Upper

83 100

85 68.5 51.8 77.6



#27

1,2-Dichloroethane-d4

Concen: 33.710 ug/l

RT: 8.584 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN076739.D

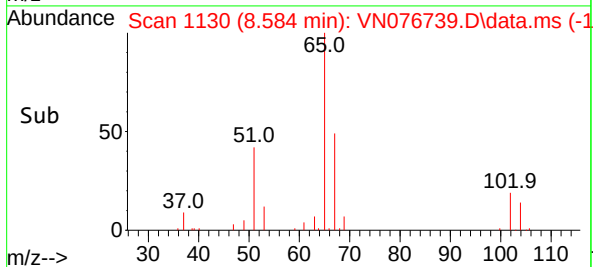
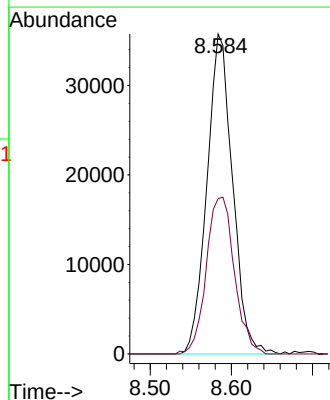
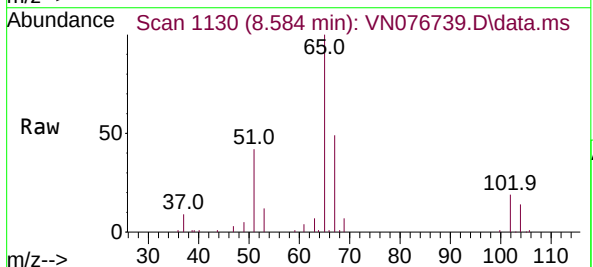
Acq: 17 Feb 2023 17:04

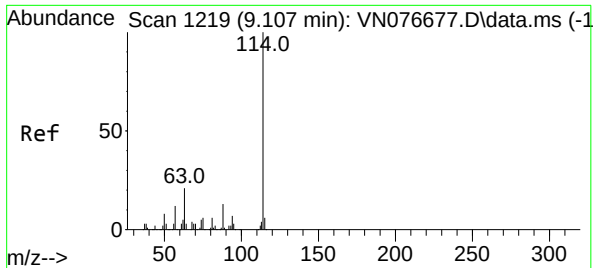
Tgt Ion: 65 Resp: 78518

Ion Ratio Lower Upper

65 100

67 53.6 40.9 61.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.107 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN076739.D

Acq: 17 Feb 2023 17:04

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

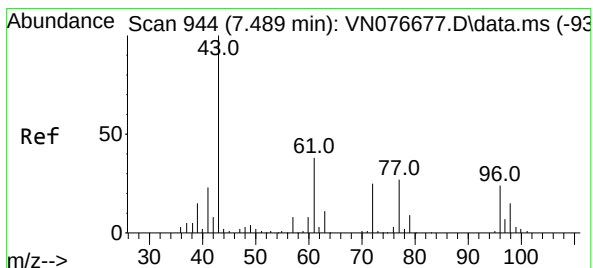
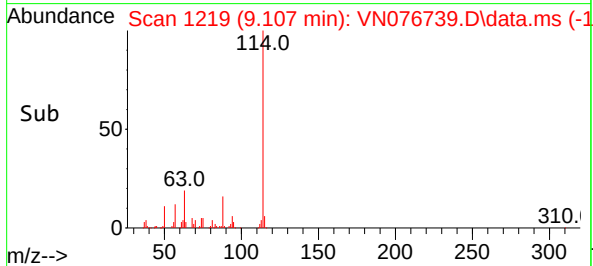
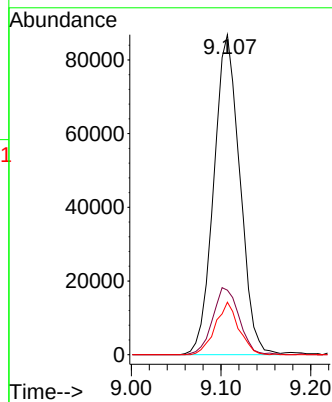
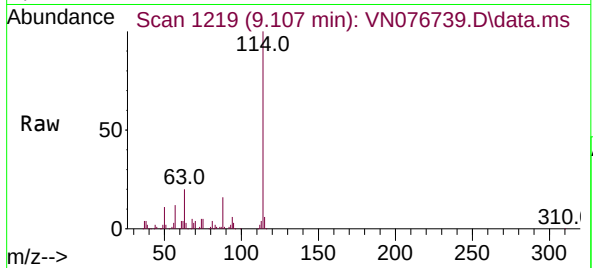
Tgt Ion:114 Resp: 175222

Ion Ratio Lower Upper

114 100

63 21.3 17.0 25.4

88 14.7 11.6 17.4



#30

2-Butanone

Concen: 5.658 ug/l

RT: 7.501 min Scan# 946

Delta R.T. 0.012 min

Lab File: VN076739.D

Acq: 17 Feb 2023 17:04

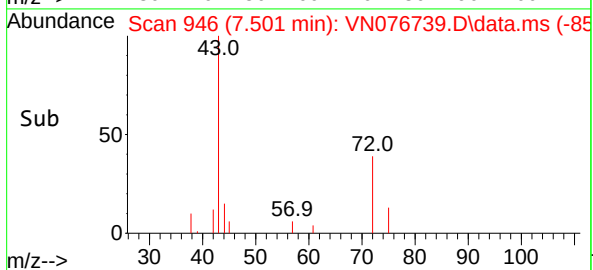
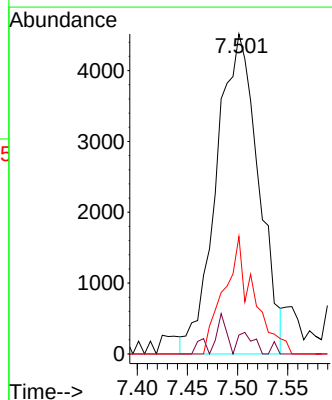
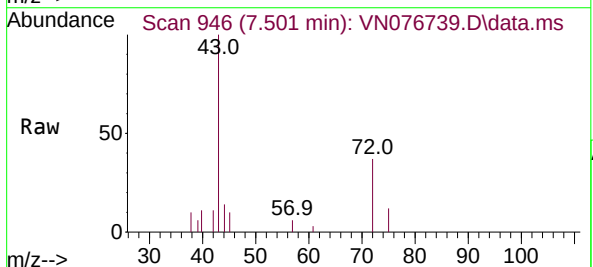
Tgt Ion: 43 Resp: 13191

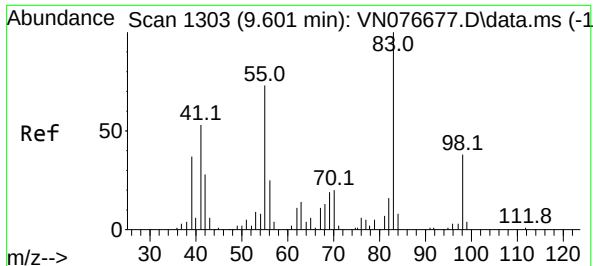
Ion Ratio Lower Upper

43 100

57 2.6 6.1 9.1#

72 17.0 20.2 30.4#





#38

Methylcyclohexane

Concen: 0.302 ug/l

RT: 9.883 min Scan# 1351

Delta R.T. 0.282 min

Lab File: VN076739.D

Acq: 17 Feb 2023 17:04

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

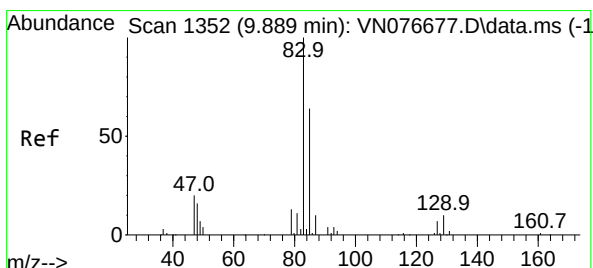
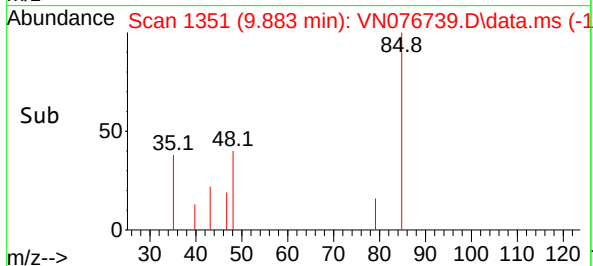
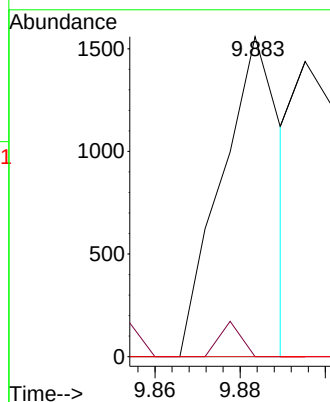
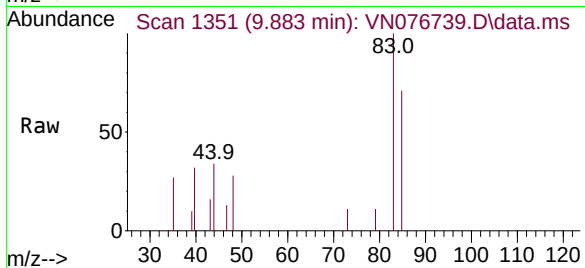
Tgt Ion: 83 Resp: 1518

Ion Ratio Lower Upper

83 100

55 6.9 37.6 112.9#

98 0.0 24.1 72.4#



#41

Bromodichloromethane

Concen: 0.358 ug/l

RT: 9.883 min Scan# 1351

Delta R.T. -0.006 min

Lab File: VN076739.D

Acq: 17 Feb 2023 17:04

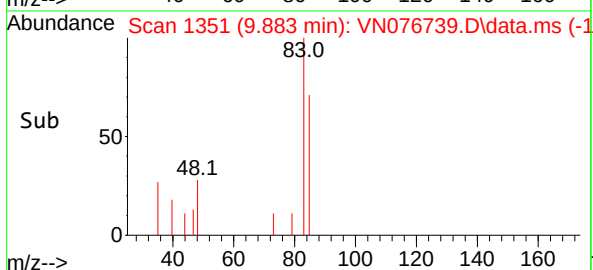
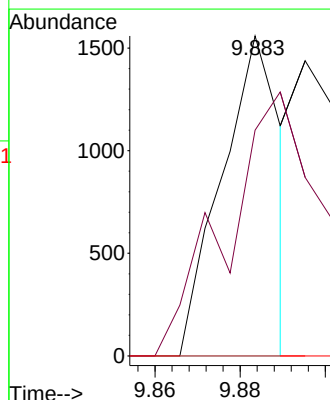
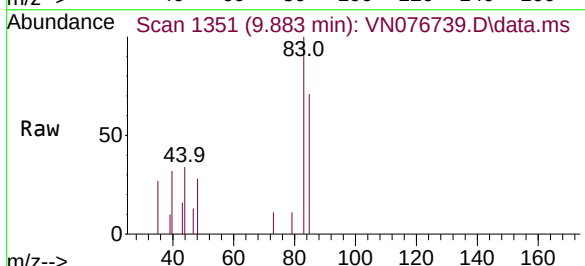
Tgt Ion: 83 Resp: 1518

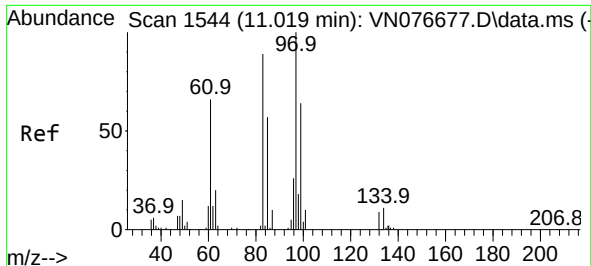
Ion Ratio Lower Upper

83 100

85 54.7 51.0 76.4

127 0.0 6.2 9.2#

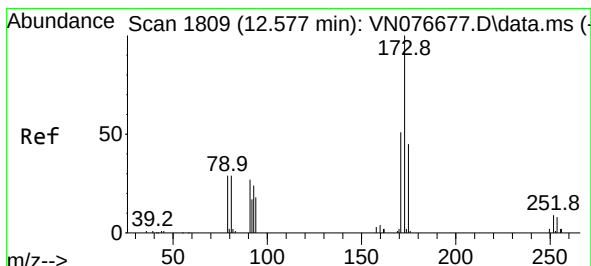
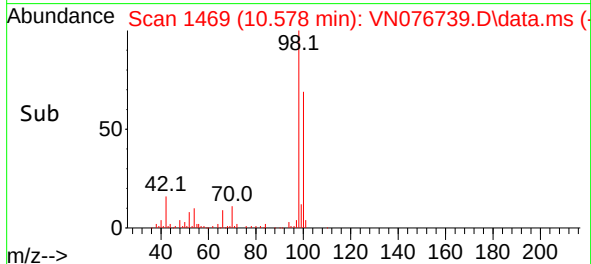
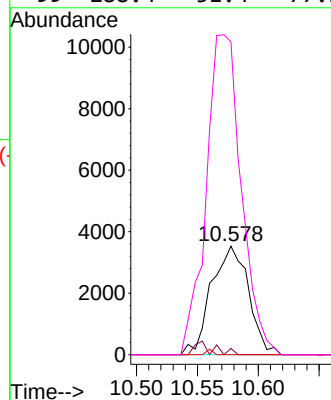
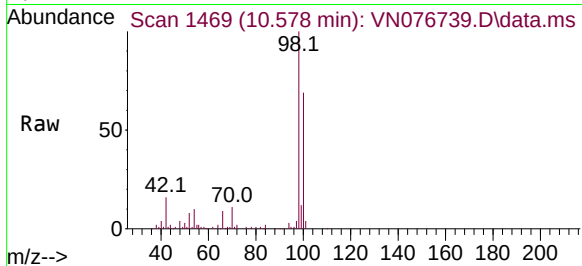




#50
1,1,2-Trichloroethane
Concen: 2.435 ug/l
RT: 10.578 min Scan# 1469
Delta R.T. -0.441 min
Lab File: VN076739.D
Acq: 17 Feb 2023 17:04

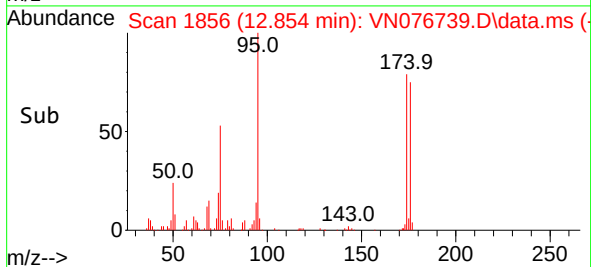
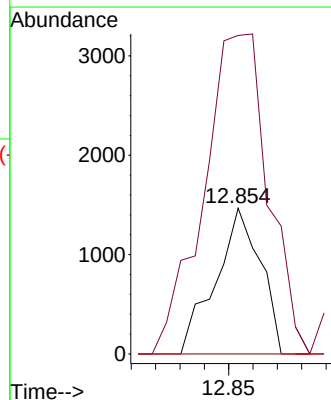
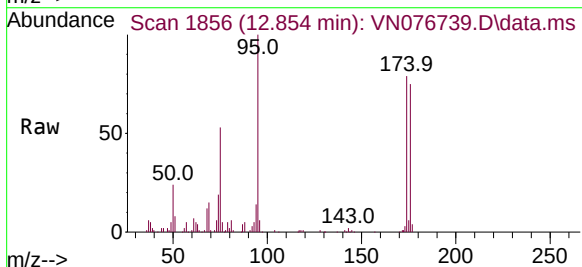
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

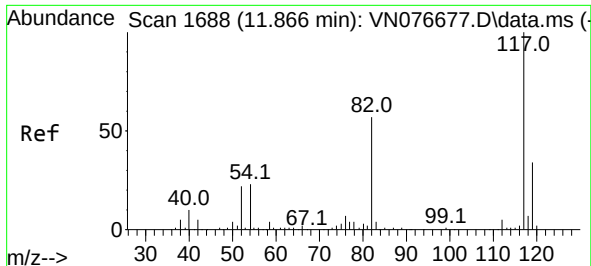
Tgt Ion:	97	Resp:	7486
Ion	Ratio	Lower	Upper
97	100		
83	5.8	71.0	106.4#
85	0.0	45.5	68.3#
99	288.4	51.4	77.2#



#56
Bromoform
Concen: 0.863 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.277 min
Lab File: VN076739.D
Acq: 17 Feb 2023 17:04

Tgt Ion:	173	Resp:	1878
Ion	Ratio	Lower	Upper
173	100		
175	316.2	37.8	56.6#
254	0.0	7.3	10.9#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.866 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN076739.D

Acq: 17 Feb 2023 17:04

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW

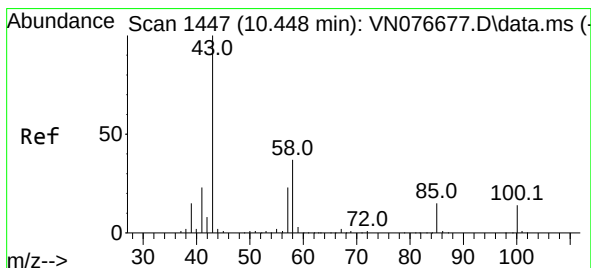
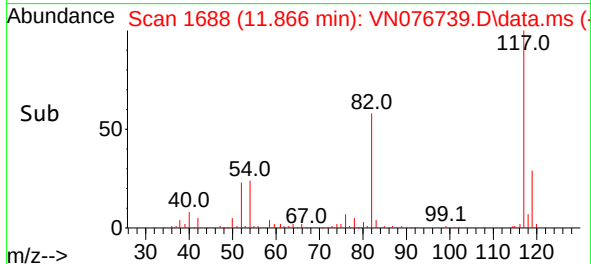
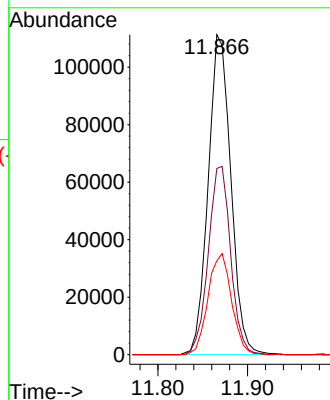
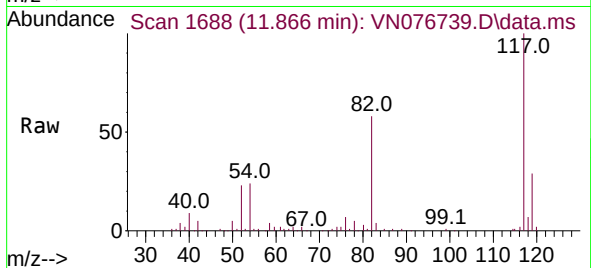
Tgt Ion:117 Resp: 195604

Ion Ratio Lower Upper

117 100

82 58.1 45.4 68.0

119 32.7 26.8 40.2



#58

4-Methyl-2-Pentanone

Concen: 0.273 ug/l

RT: 10.442 min Scan# 1446

Delta R.T. -0.006 min

Lab File: VN076739.D

Acq: 17 Feb 2023 17:04

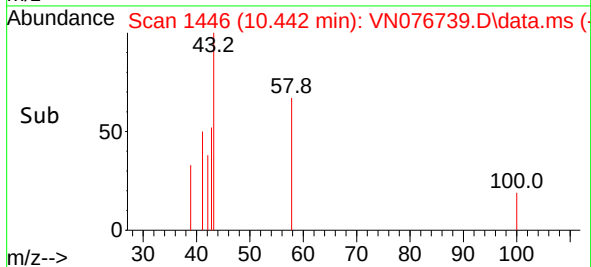
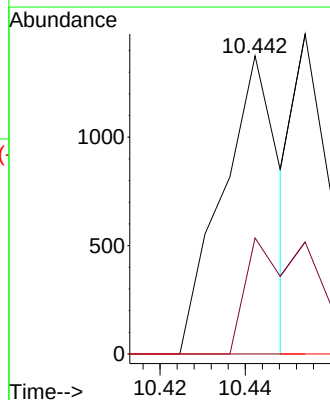
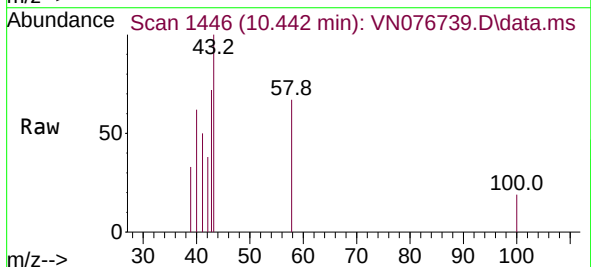
Tgt Ion: 43 Resp: 1269

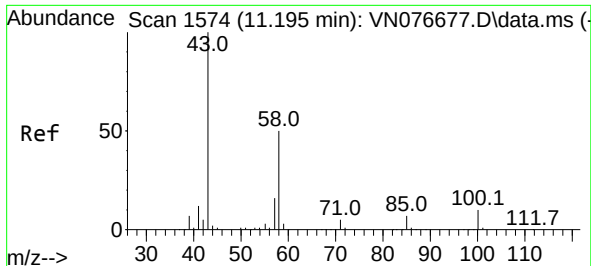
Ion Ratio Lower Upper

43 100

58 52.1 28.6 42.8#

85 0.0 11.8 17.8#

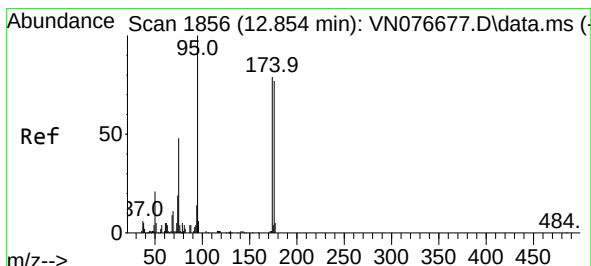
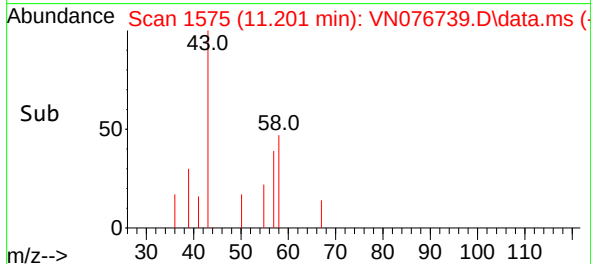
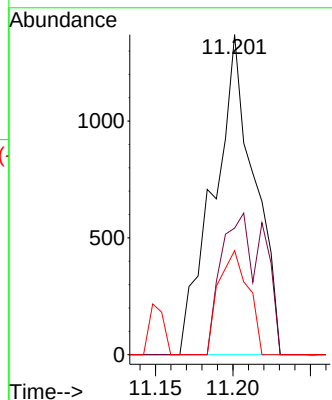
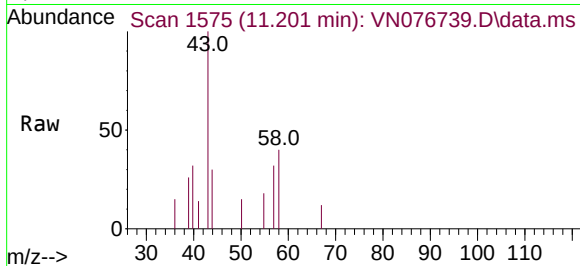




#59
2-Hexanone
Concen: 0.721 ug/l
RT: 11.201 min Scan# 1575
Delta R.T. 0.006 min
Lab File: VN076739.D
Acq: 17 Feb 2023 17:04

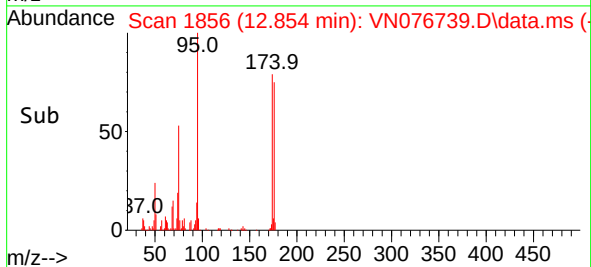
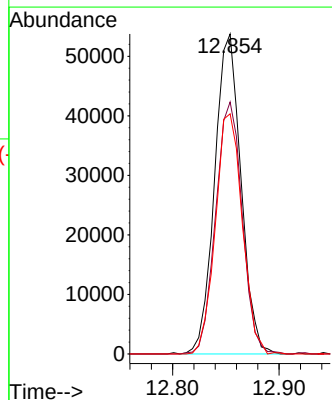
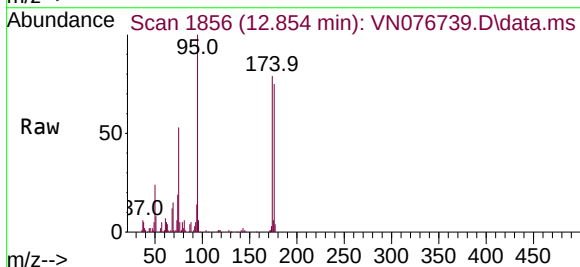
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

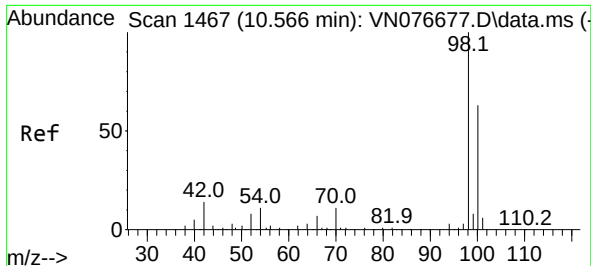
Tgt Ion: 43 Resp: 2496
Ion Ratio Lower Upper
43 100
58 32.3 40.6 60.8#
57 23.8 13.1 19.7#



#60
4-Bromofluorobenzene
Concen: 26.627 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.000 min
Lab File: VN076739.D
Acq: 17 Feb 2023 17:04

Tgt Ion: 95 Resp: 92124
Ion Ratio Lower Upper
95 100
174 79.2 64.2 96.4
176 76.5 61.4 92.0

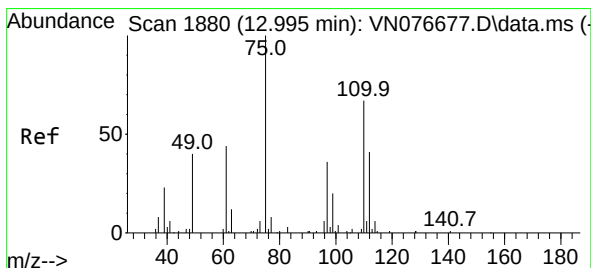
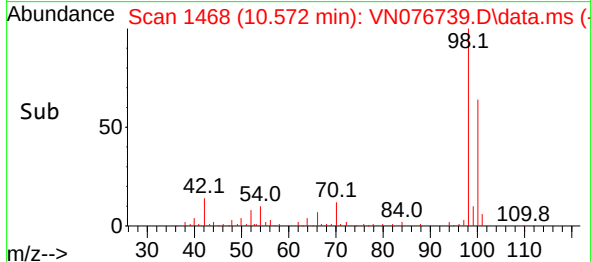
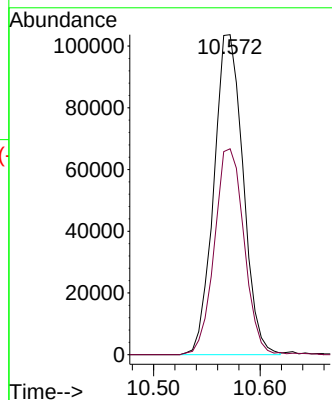
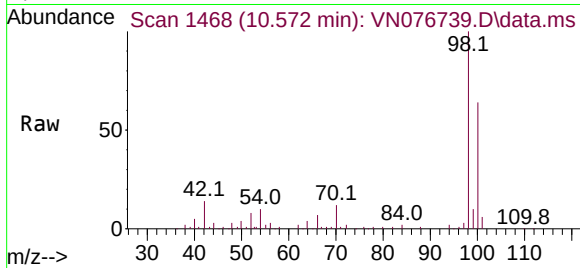




#63
Toluene-d8
Concen: 28.853 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. 0.006 min
Lab File: VN076739.D
Acq: 17 Feb 2023 17:04

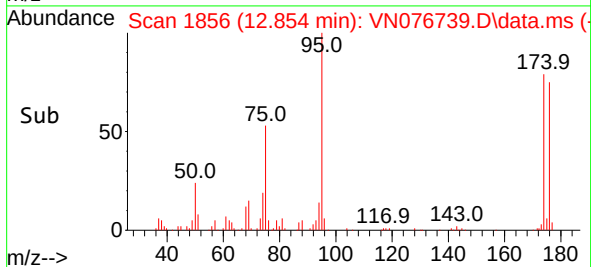
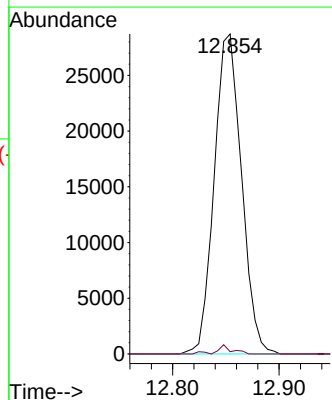
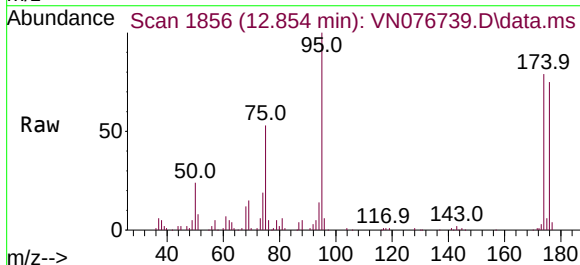
Instrument :
MSVOA_N
ClientSampleId :
EFF-WW

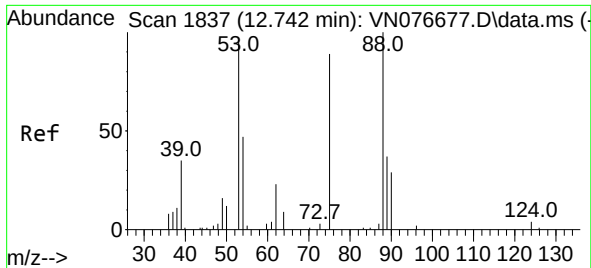
Tgt Ion: 98 Resp: 197686
Ion Ratio Lower Upper
98 100
100 65.1 53.8 80.6



#72
1,2,3-Trichloropropane
Concen: 12.407 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN076739.D
Acq: 17 Feb 2023 17:04

Tgt Ion: 75 Resp: 51085
Ion Ratio Lower Upper
75 100
77 0.4 0.0 332.6





#77

t-1,4-Dichloro-2-butene

Concen: 0.314 ug/l

RT: 12.666 min Scan# 11

Delta R.T. -0.076 min

Lab File: VN076739.D

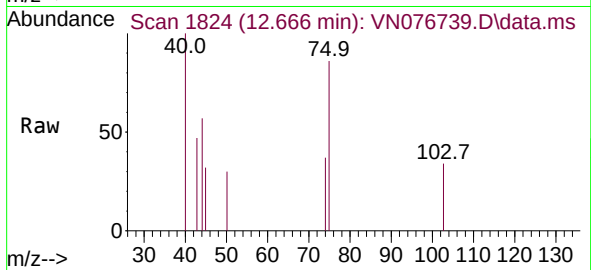
Acq: 17 Feb 2023 17:04

Instrument :

MSVOA_N

ClientSampleId :

EFF-WW



Tgt Ion: 75 Resp: 416

Ion Ratio Lower Upper

75 100

53 0.0 50.4 151.3#

89 0.0 22.1 66.5#

