

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010423\
 Data File : VN076093.D
 Acq On : 04 Jan 2023 19:55
 Operator : JC\MD
 Sample : 01001-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-C2

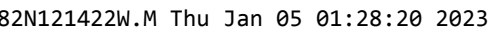
Quant Time: Jan 05 01:28:10 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121422W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 14 13:03:41 2022
 Response via : Initial Calibration

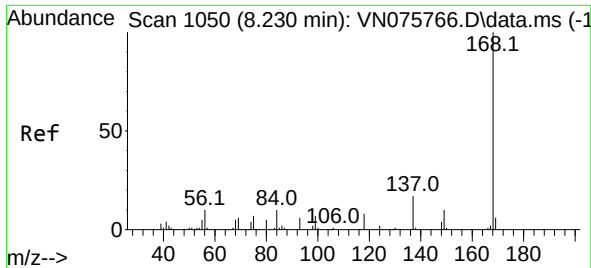
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.235	168	337059	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	549267	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	481611	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	192570	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	177908	48.517	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.040%
35) Dibromofluoromethane	8.177	113	163679	48.119	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.240%
50) Toluene-d8	10.571	98	639144	50.255	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.520%
62) 4-Bromofluorobenzene	12.853	95	194182	46.099	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	92.200%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.518	59	875	1.686	ug/l #	72
16) Acetone	4.447	43	48796	38.603	ug/l	95
18) Methyl Acetate	5.047	43	3056	0.818	ug/l #	57
20) Methylene Chloride	5.289	84	7421	1.574	ug/l #	90
25) 2-Butanone	7.494	43	7735	4.370	ug/l	91
29) Tetrahydrofuran	7.883	42	502	0.453	ug/l #	25
31) Cyclohexane	8.235	56	6801	1.295	ug/l #	10
36) 1,1-Dichloropropene	8.230	75	23887	5.286	ug/l #	50
37) Ethyl Acetate	7.577	43	32896	9.063	ug/l	99
38) Carbon Tetrachloride	8.235	117	33514	6.627	ug/l #	17
40) Benzene	8.618	78	13464	0.966	ug/l	97
42) 1,2-Dichloroethane	8.682	62	1499	0.323	ug/l #	72
43) Isopropyl Acetate	8.694	43	278891	46.581	ug/l #	74
45) 1,2-Dichloropropane	9.741	63	2261	0.666	ug/l #	43
48) Methyl methacrylate	9.671	41	4179	1.550	ug/l #	36
49) 1,4-Dioxane	9.682	88	60	0.905	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	14962	4.132	ug/l #	76
53) t-1,3-Dichloropropene	10.729	75	1455	0.301	ug/l	93
54) cis-1,3-Dichloropropene	10.365	75	66227	12.488	ug/l #	62
56) Ethyl methacrylate	10.982	69	1882	0.398	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	8829	1.510	ug/l #	42
59) 2-Hexanone	11.206	43	83392	31.581	ug/l #	53
71) Bromoform	12.853	173	1706	0.640	ug/l #	1
74) N-amyl acetate	12.488	43	1826	0.447	ug/l #	37
76) 1,2,3-Trichloropropane	12.853	75	100753	25.956	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	100753	93.427	ug/l #	12
95) Naphthalene	15.647	128	291	2.204	ug/l #	69

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

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QLast Update : Wed Dec 14 13:03:41 2022
Response via : Initial Calibration

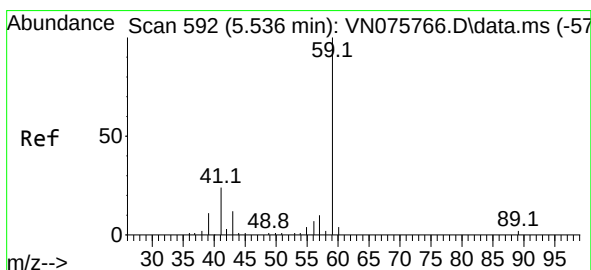
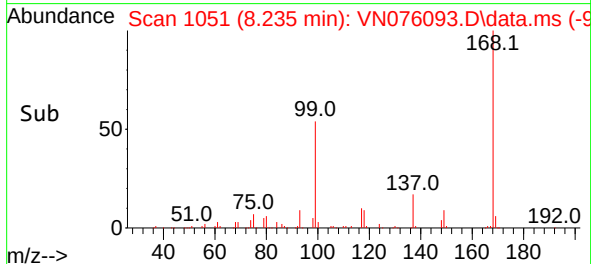
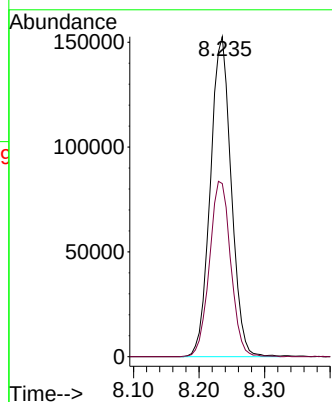
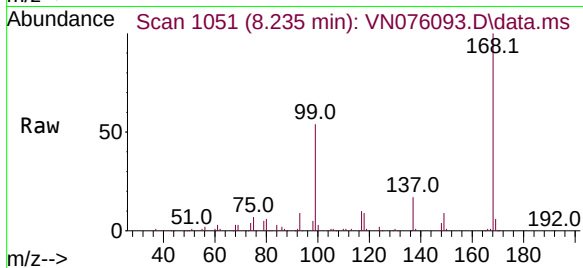




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 1050
Delta R.T. 0.005 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

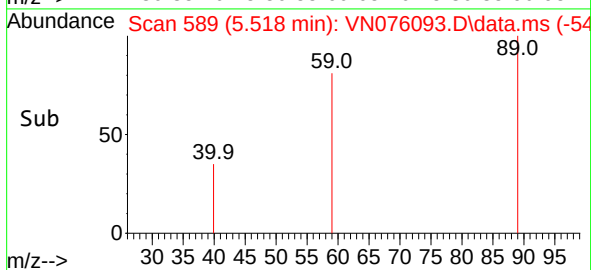
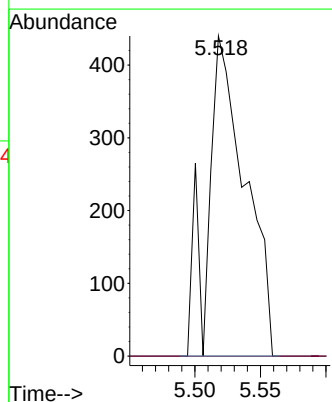
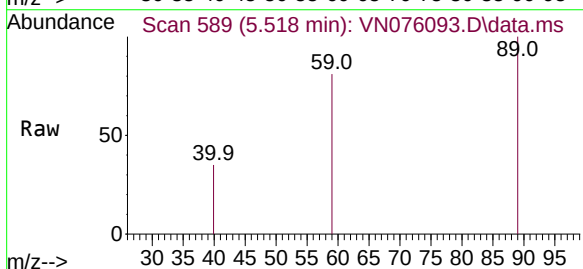
Instrument :
MSVOA_N
ClientSampleId :
TP-C2

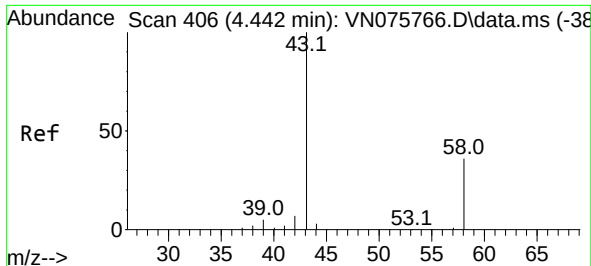
Tgt Ion:168 Resp: 337059
Ion Ratio Lower Upper
168 100
99 54.1 44.2 66.4



#11
Tert butyl alcohol
Concen: 1.686 ug/l
RT: 5.518 min Scan# 589
Delta R.T. -0.018 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

Tgt Ion: 59 Resp: 875
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 38.603 ug/l

RT: 4.447 min Scan# 406

Delta R.T. 0.006 min

Lab File: VN076093.D

Acq: 04 Jan 2023 19:55

Instrument :

MSVOA_N

ClientSampleId :

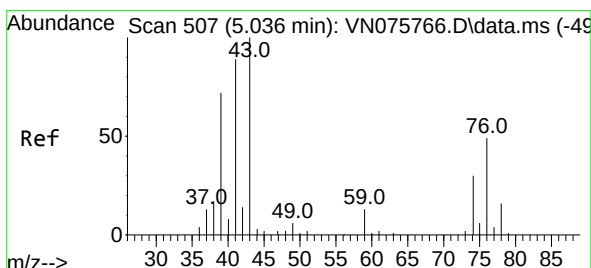
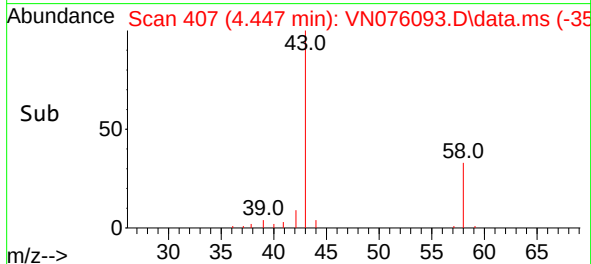
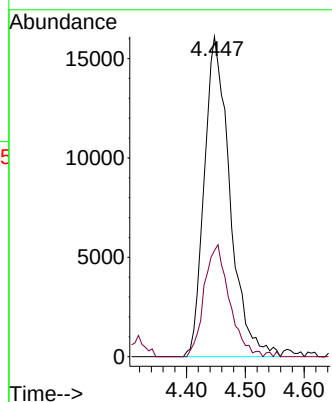
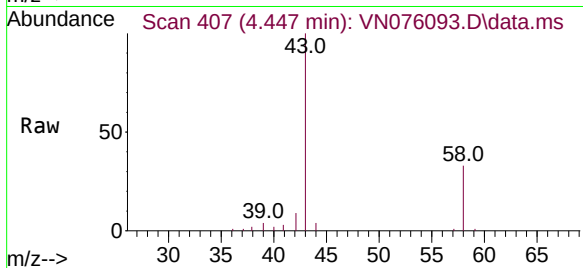
TP-C2

Tgt Ion: 43 Resp: 48796

Ion Ratio Lower Upper

43 100

58 33.1 28.6 43.0



#18

Methyl Acetate

Concen: 0.818 ug/l

RT: 5.047 min Scan# 509

Delta R.T. 0.012 min

Lab File: VN076093.D

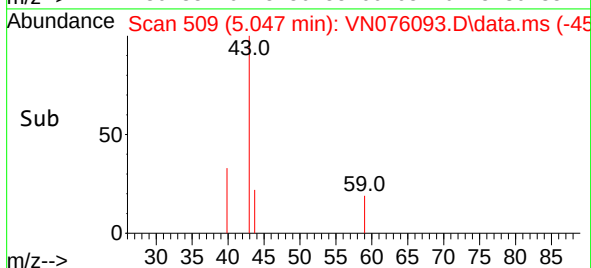
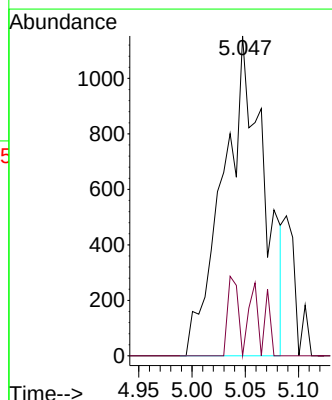
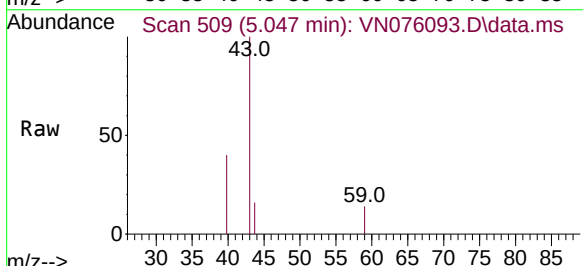
Acq: 04 Jan 2023 19:55

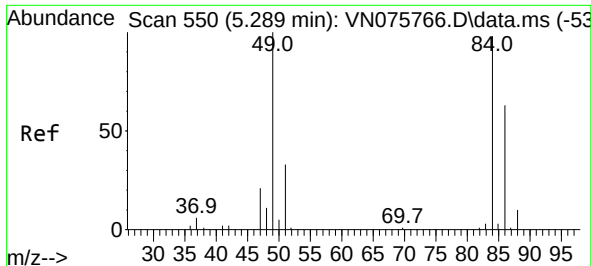
Tgt Ion: 43 Resp: 3056

Ion Ratio Lower Upper

43 100

74 6.3 23.6 35.4#

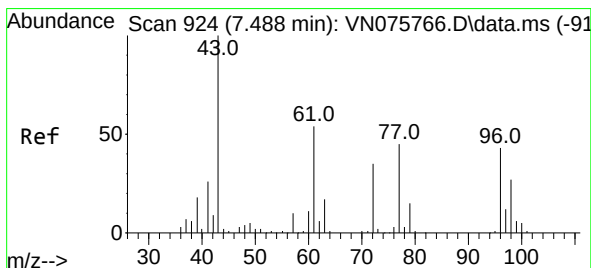
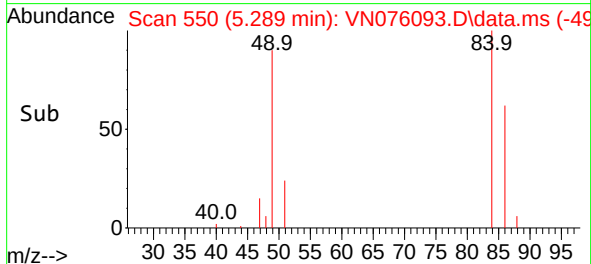
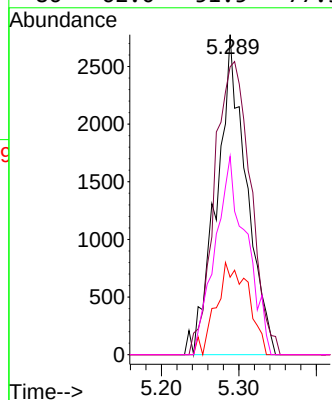
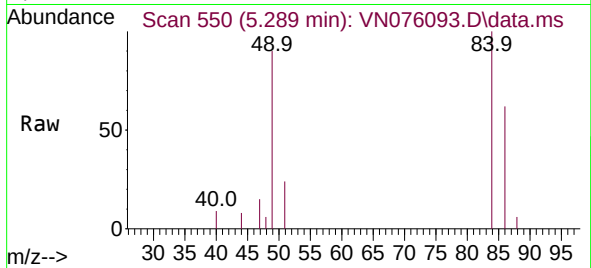




#20
Methylene Chloride
Concen: 1.574 ug/l
RT: 5.289 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

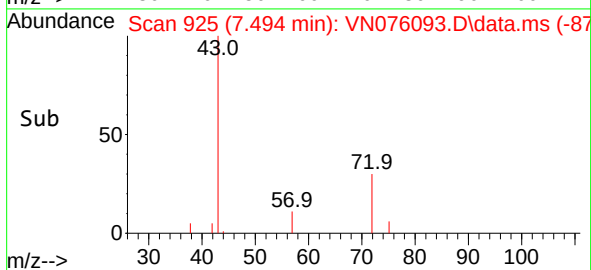
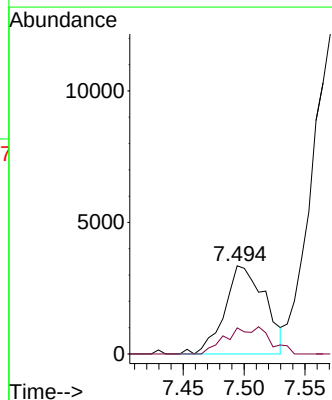
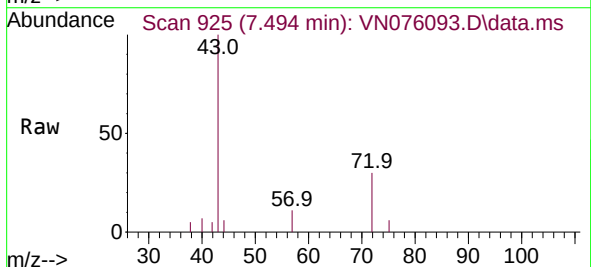
Instrument :
MSVOA_N
ClientSampleId :
TP-C2

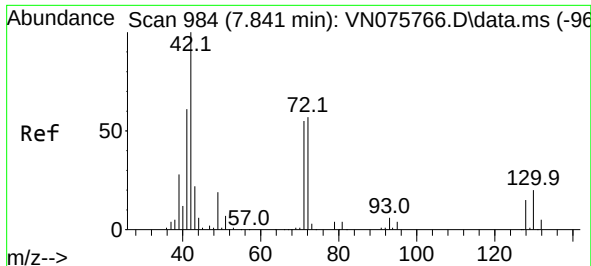
Tgt Ion: 84	Resp: 7421
Ion Ratio	Lower Upper
84 100	
49 89.9	81.8 122.6
51 24.2	26.7 40.1#
86 62.0	51.5 77.3



#25
2-Butanone
Concen: 4.370 ug/l
RT: 7.494 min Scan# 925
Delta R.T. 0.006 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

Tgt Ion: 43	Resp: 7735		
Ion Ratio	Lower	Upper	
43 100			
72 29.5	28.0	42.0	





#29

Tetrahydrofuran

Concen: 0.453 ug/l

RT: 7.883 min Scan# 991

Delta R.T. 0.041 min

Lab File: VN076093.D

Acq: 04 Jan 2023 19:55

Instrument :

MSVOA_N

ClientSampleId :

TP-C2

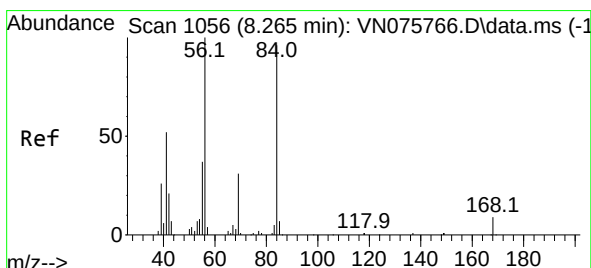
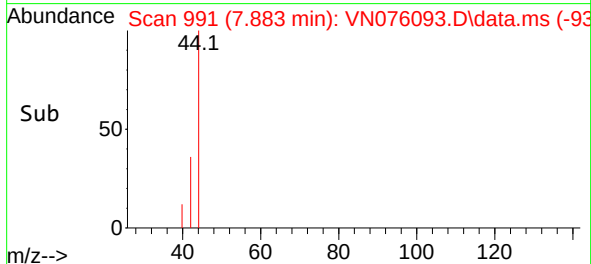
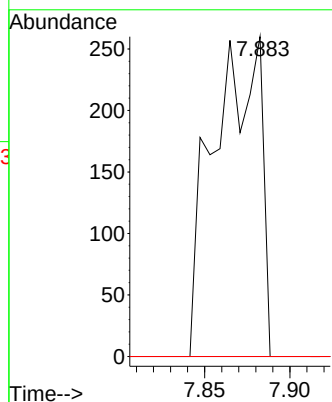
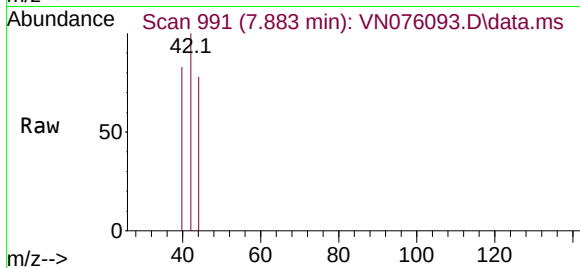
Tgt Ion: 42 Resp: 502

Ion Ratio Lower Upper

42 100

72 0.0 44.5 66.7#

71 0.0 41.0 61.6#



#31

Cyclohexane

Concen: 1.295 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.029 min

Lab File: VN076093.D

Acq: 04 Jan 2023 19:55

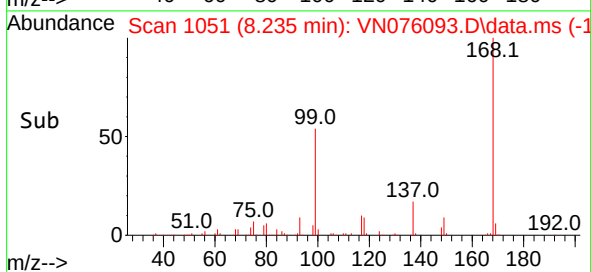
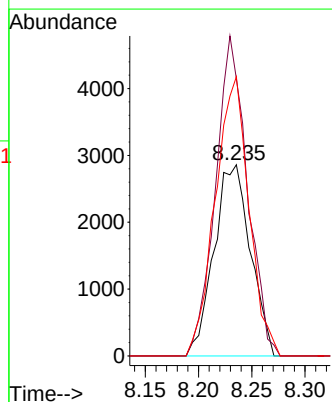
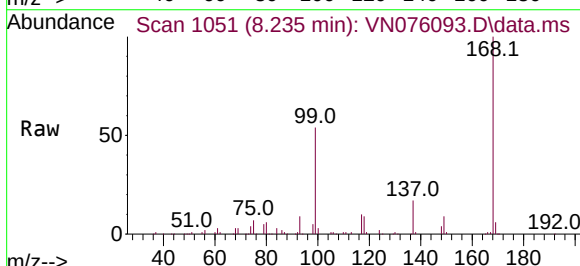
Tgt Ion: 56 Resp: 6801

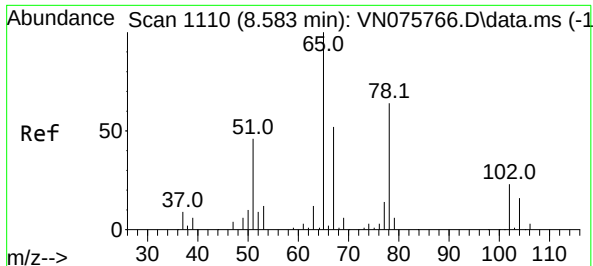
Ion Ratio Lower Upper

56 100

69 145.0 24.7 37.1#

84 146.0 76.5 114.7#





#33

1,2-Dichloroethane-d4

Concen: 48.517 ug/l

RT: 8.588 min Scan# 1110

Delta R.T. 0.006 min

Lab File: VN076093.D

Acq: 04 Jan 2023 19:55

Instrument :

MSVOA_N

ClientSampleId :

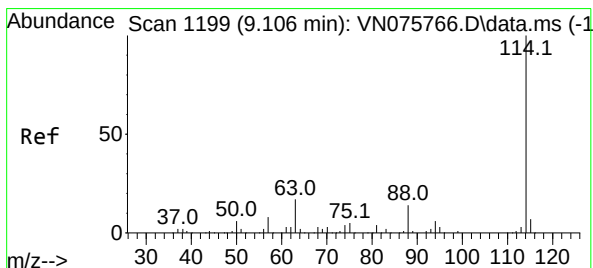
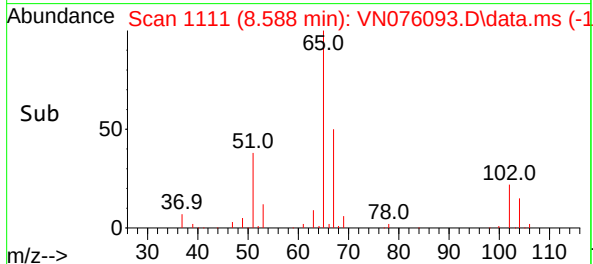
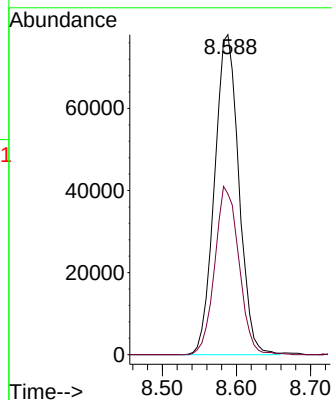
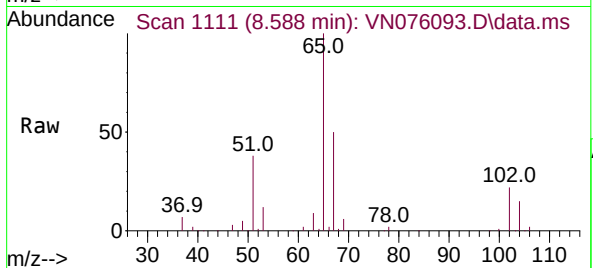
TP-C2

Tgt Ion: 65 Resp: 177908

Ion Ratio Lower Upper

65 100

67 52.2 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN076093.D

Acq: 04 Jan 2023 19:55

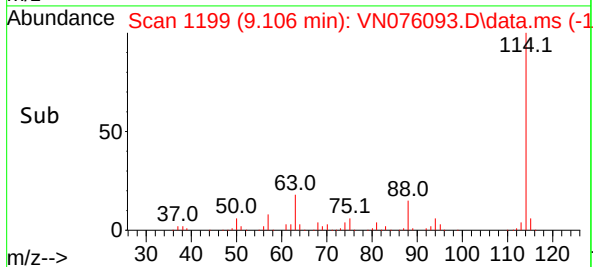
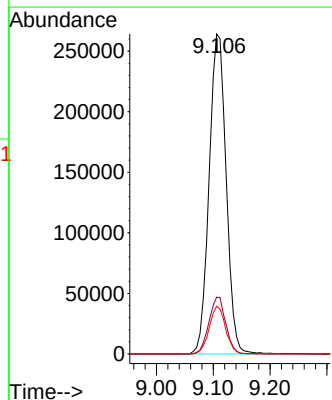
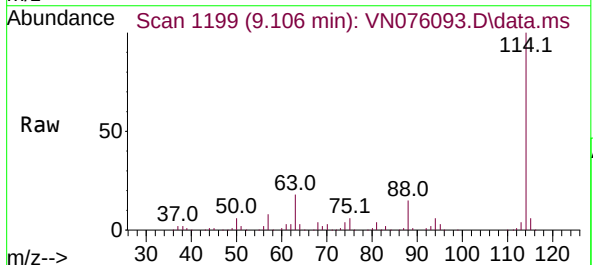
Tgt Ion: 114 Resp: 549267

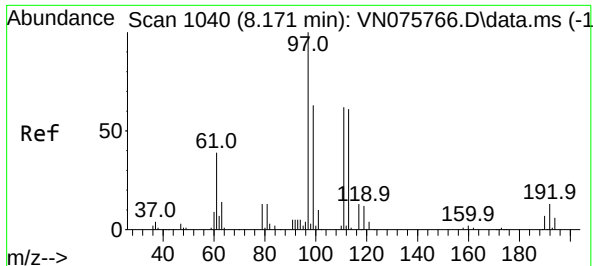
Ion Ratio Lower Upper

114 100

63 17.7 0.0 34.4

88 14.9 0.0 28.8

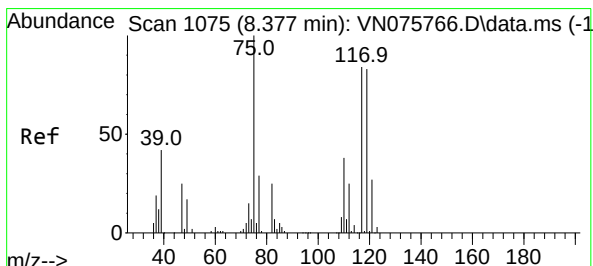
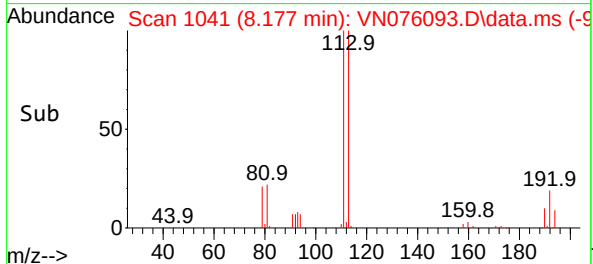
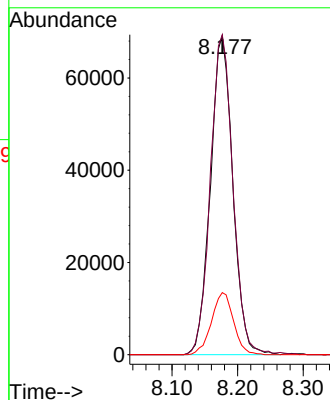
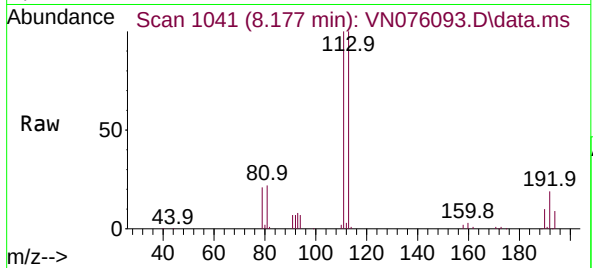




#35
Dibromofluoromethane
Concen: 48.119 ug/l
RT: 8.177 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

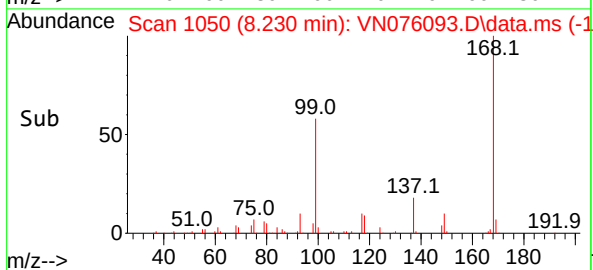
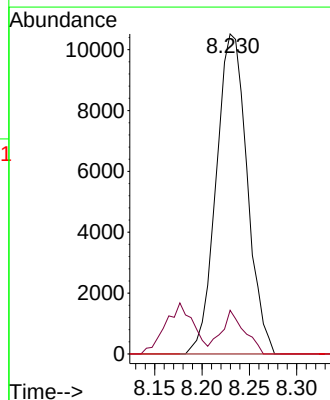
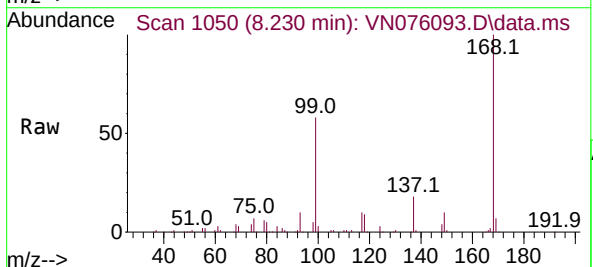
Instrument :
MSVOA_N
ClientSampleId :
TP-C2

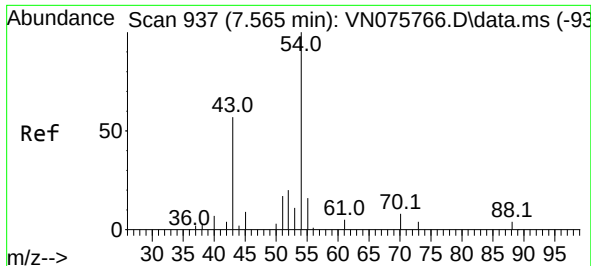
Tgt Ion:113 Resp: 163679
Ion Ratio Lower Upper
113 100
111 101.1 83.4 125.2
192 19.2 16.1 24.1



#36
1,1-Dichloropropene
Concen: 5.286 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.147 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

Tgt Ion: 75 Resp: 23887
Ion Ratio Lower Upper
75 100
110 10.1 18.8 56.4#
77 0.0 24.1 36.1#

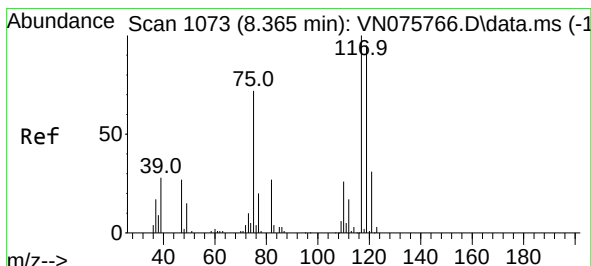
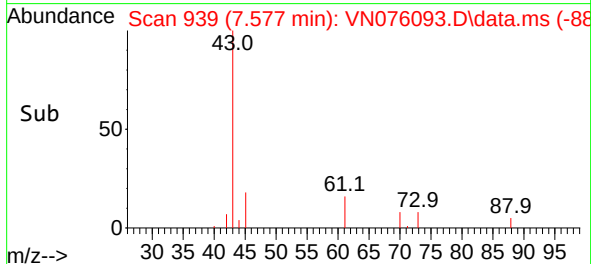
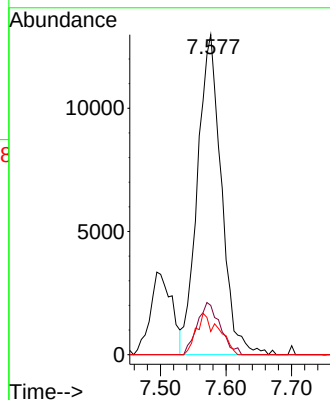
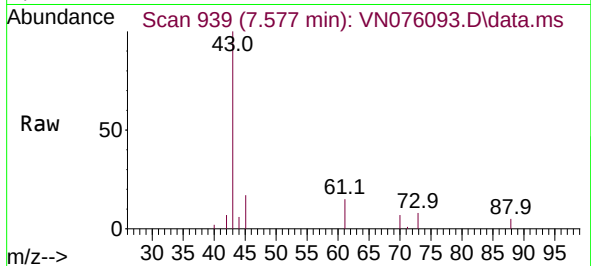




#37
Ethyl Acetate
Concen: 9.063 ug/l
RT: 7.577 min Scan# 91
Delta R.T. 0.012 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

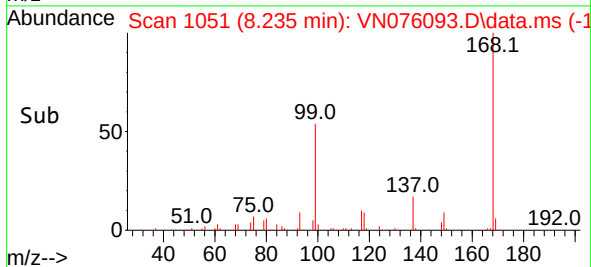
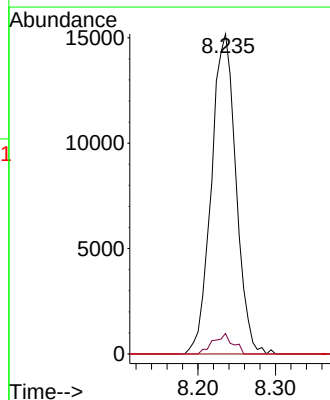
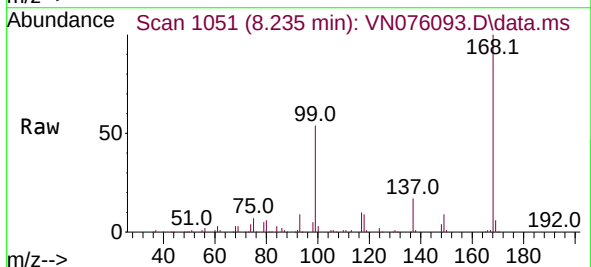
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MSVOA_N
ClientSampleId :
TP-C2

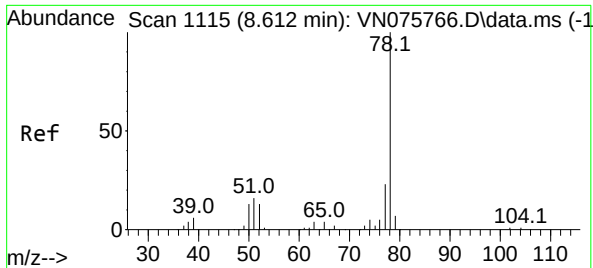
Tgt Ion: 43 Resp: 32896
Ion Ratio Lower Upper
43 100
61 15.7 13.0 19.4
70 12.2 9.4 14.0



#38
Carbon Tetrachloride
Concen: 6.627 ug/l
RT: 8.235 min Scan# 1051
Delta R.T. -0.129 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

Tgt Ion: 117 Resp: 33514
Ion Ratio Lower Upper
117 100
119 6.4 76.1 114.1#
121 0.0 24.5 36.7#





#40

Benzene

Concen: 0.966 ug/l

RT: 8.618 min Scan# 1115

Delta R.T. 0.006 min

Lab File: VN076093.D

Acq: 04 Jan 2023 19:55

Instrument :

MSVOA_N

ClientSampleId :

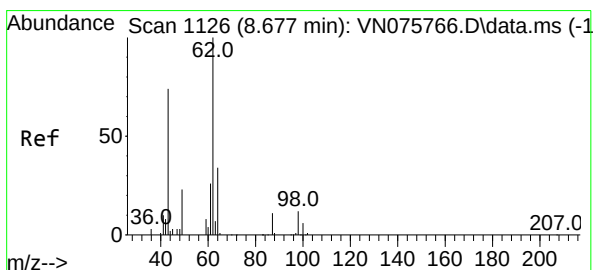
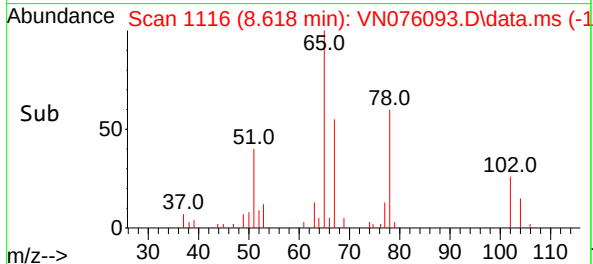
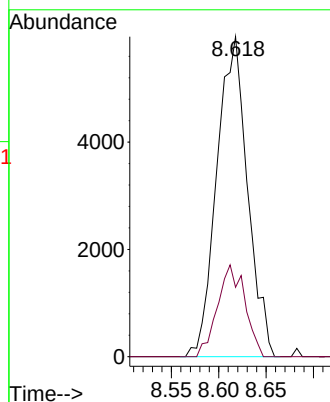
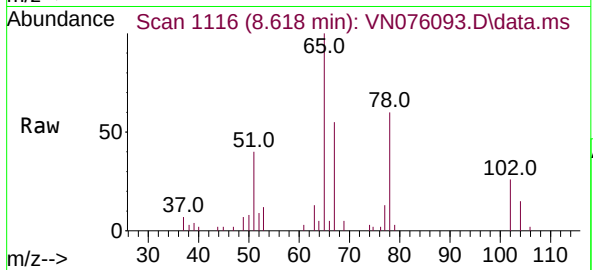
TP-C2

Tgt Ion: 78 Resp: 13464

Ion Ratio Lower Upper

78 100

77 21.7 18.5 27.7



#42

1,2-Dichloroethane

Concen: 0.323 ug/l

RT: 8.682 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN076093.D

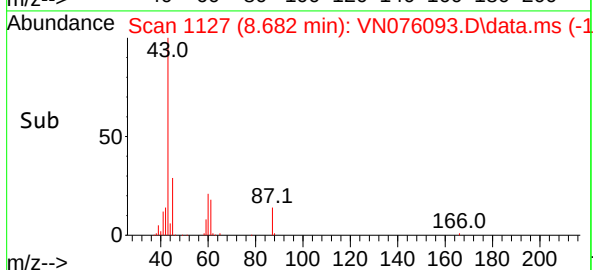
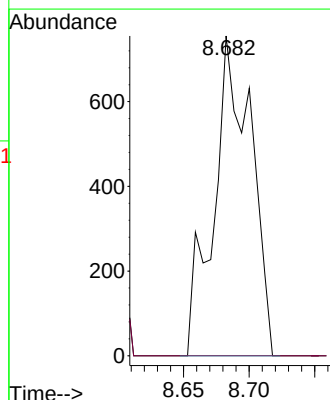
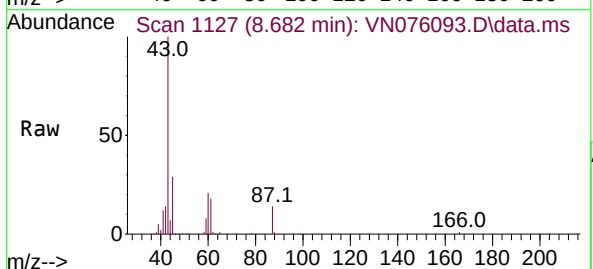
Acq: 04 Jan 2023 19:55

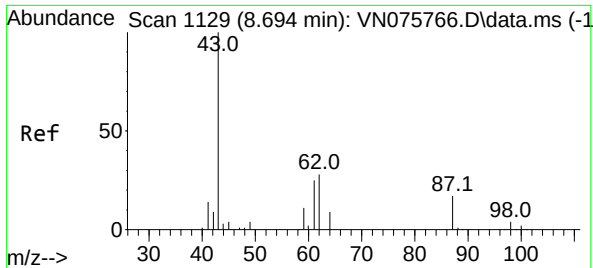
Tgt Ion: 62 Resp: 1499

Ion Ratio Lower Upper

62 100

98 0.0 0.0 20.8

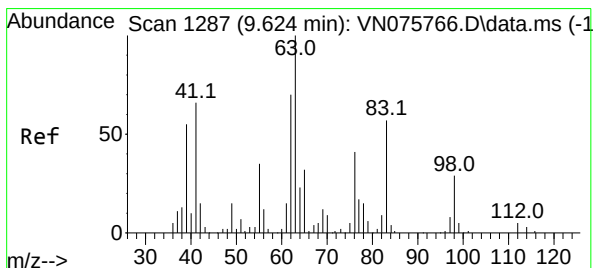
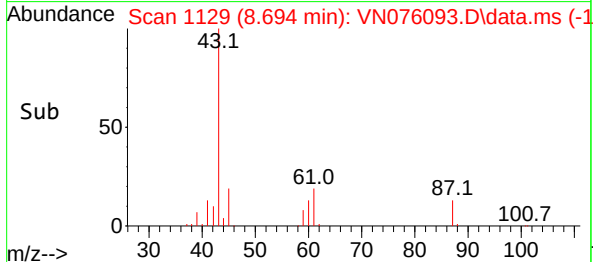
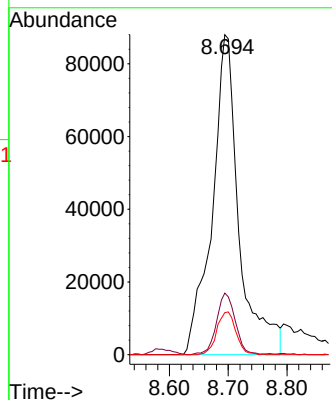
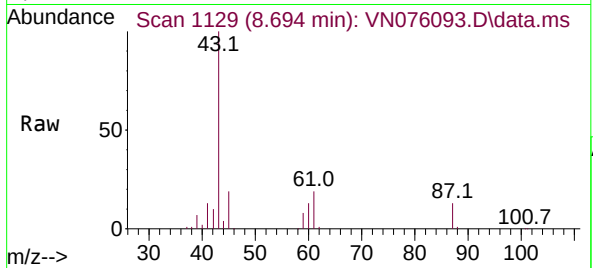




#43
Isopropyl Acetate
Concen: 46.581 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. -0.000 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

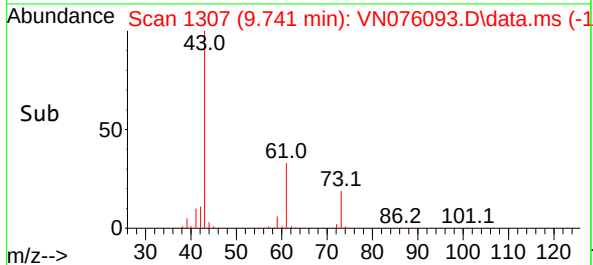
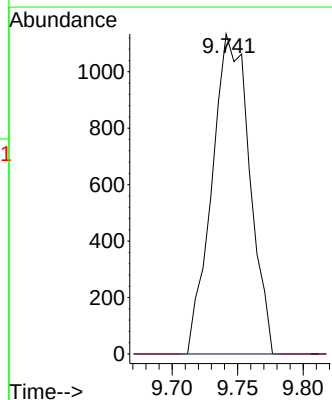
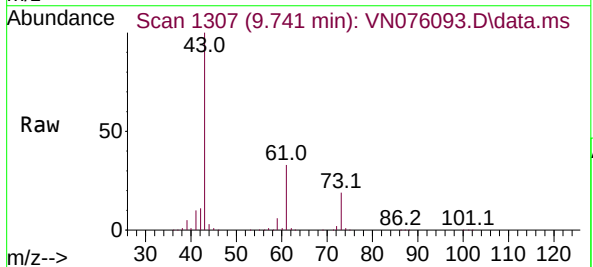
Instrument :
MSVOA_N
ClientSampleId :
TP-C2

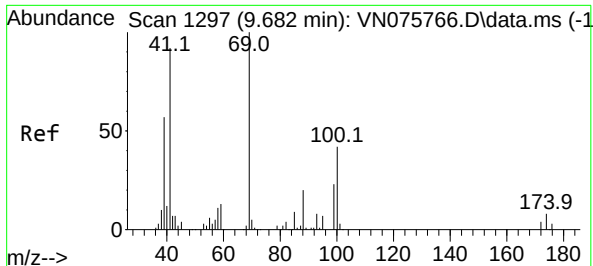
Tgt Ion: 43 Resp: 278891
Ion Ratio Lower Upper
43 100
61 13.5 24.2 36.4#
87 9.5 13.3 19.9#



#45
1,2-Dichloropropane
Concen: 0.666 ug/l
RT: 9.741 min Scan# 1307
Delta R.T. 0.118 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

Tgt Ion: 63 Resp: 2261
Ion Ratio Lower Upper
63 100
65 0.0 25.7 38.5#

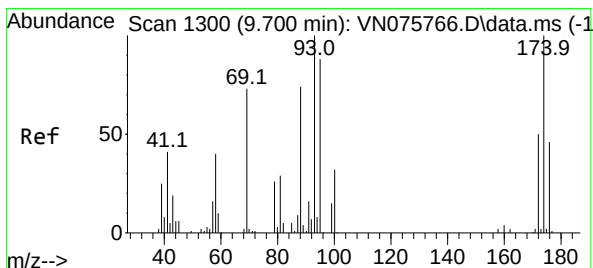
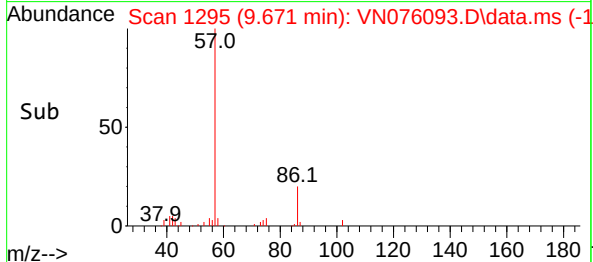
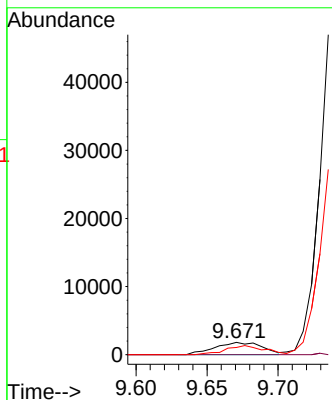
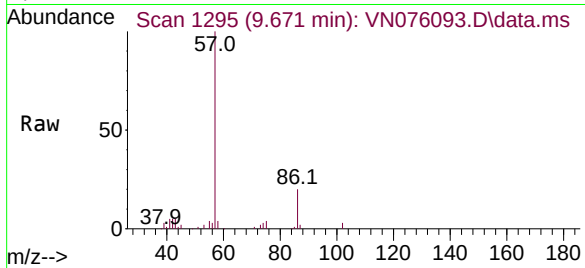




#48
Methyl methacrylate
Concen: 1.550 ug/l
RT: 9.671 min Scan# 1295
Delta R.T. -0.012 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

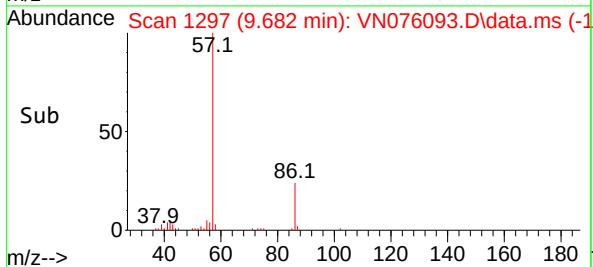
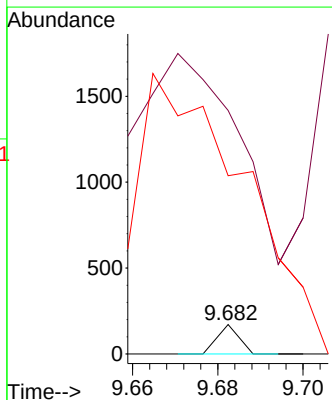
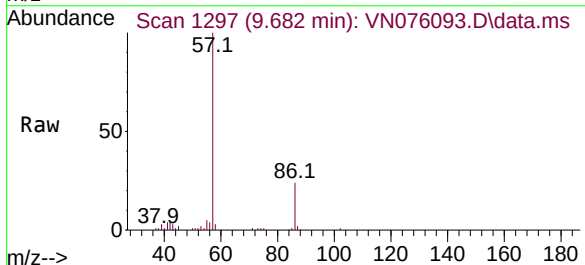
Instrument :
MSVOA_N
ClientSampleId :
TP-C2

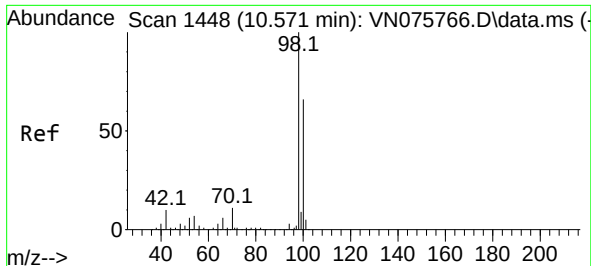
Tgt Ion: 41 Resp: 4179
Ion Ratio Lower Upper
41 100
69 0.0 81.9 122.9#
39 61.4 51.6 77.4



#49
1,4-Dioxane
Concen: 0.905 ug/l
RT: 9.682 min Scan# 1297
Delta R.T. -0.018 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

Tgt Ion: 88 Resp: 60
Ion Ratio Lower Upper
88 100
43 0.0 17.1 25.7#
58 5336.7 47.8 71.8#

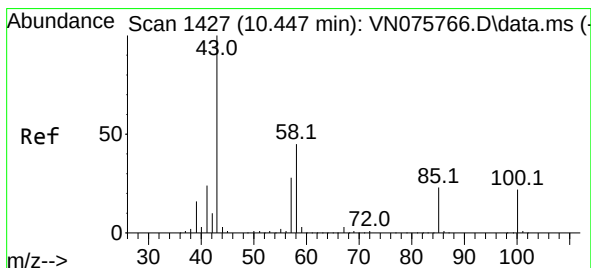
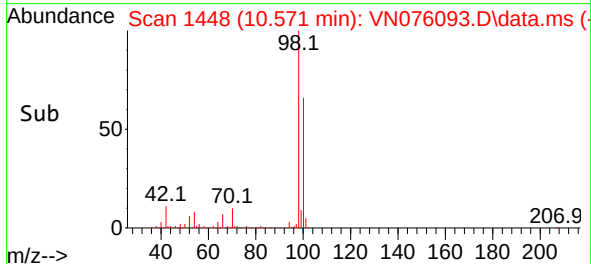
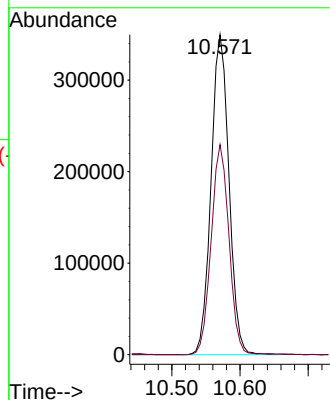
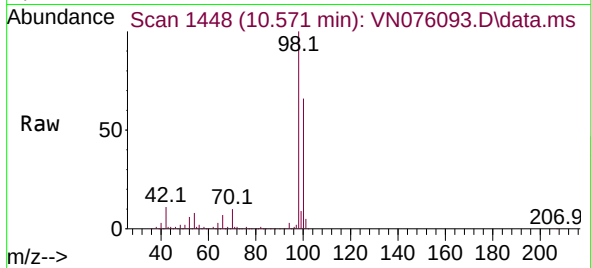




#50
Toluene-d8
Concen: 50.255 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

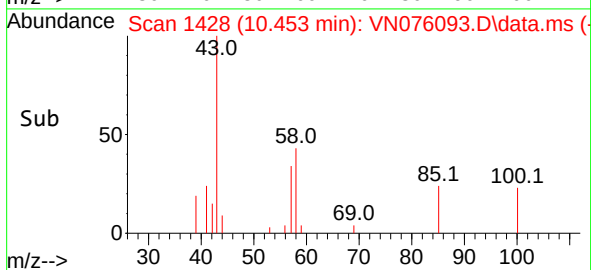
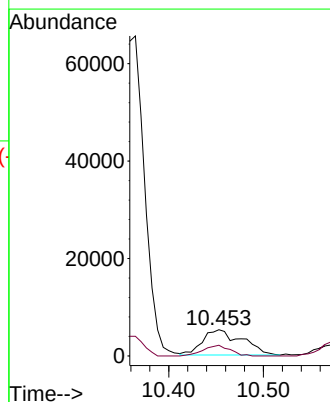
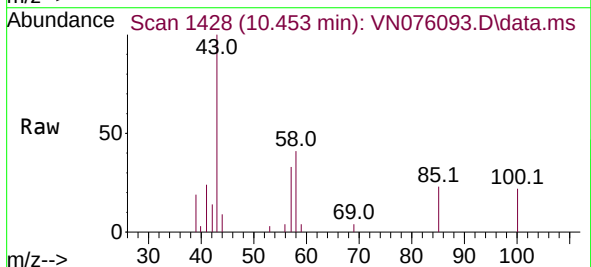
Instrument :
MSVOA_N
ClientSampleId :
TP-C2

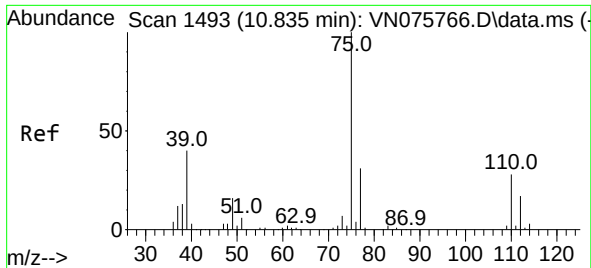
Tgt Ion: 98 Resp: 639144
Ion Ratio Lower Upper
98 100
100 65.3 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 4.132 ug/l
RT: 10.453 min Scan# 1428
Delta R.T. 0.006 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

Tgt Ion: 43 Resp: 14962
Ion Ratio Lower Upper
43 100
58 29.1 35.5 53.3#

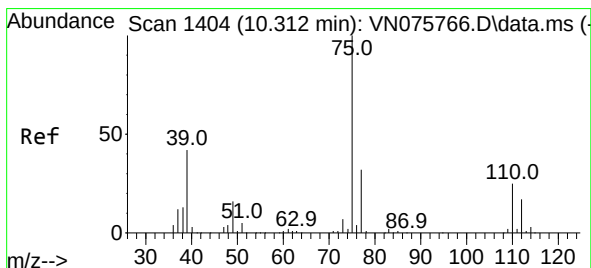
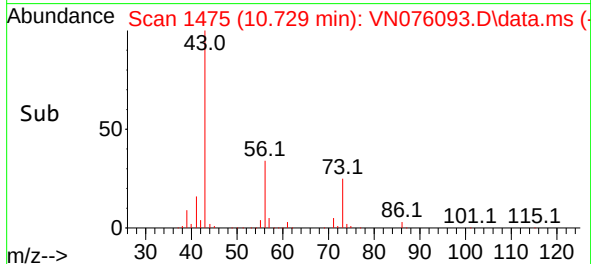
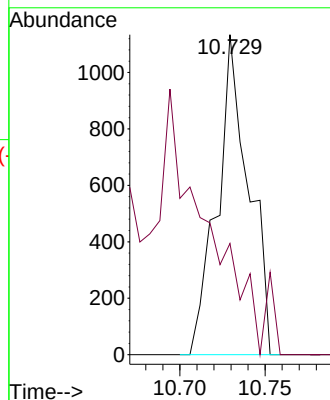
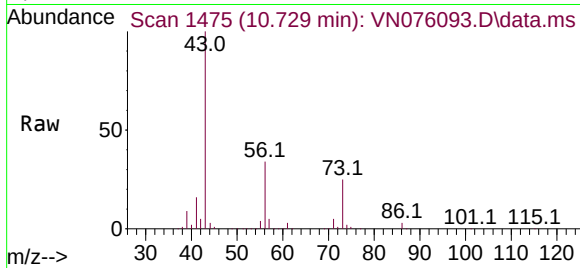




#53
t-1,3-Dichloropropene
Concen: 0.301 ug/l
RT: 10.729 min Scan# 1412
Delta R.T. -0.106 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

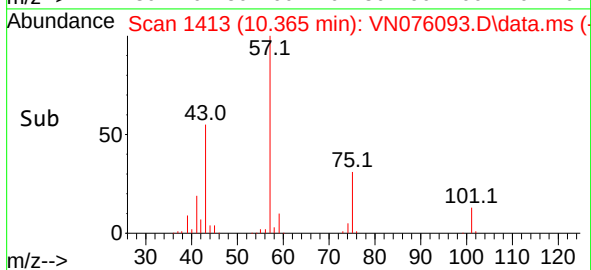
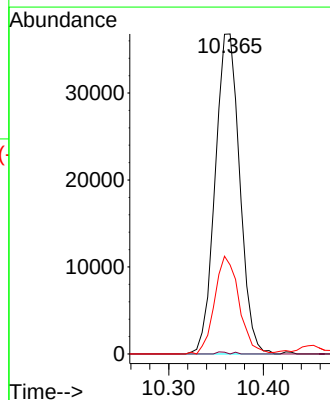
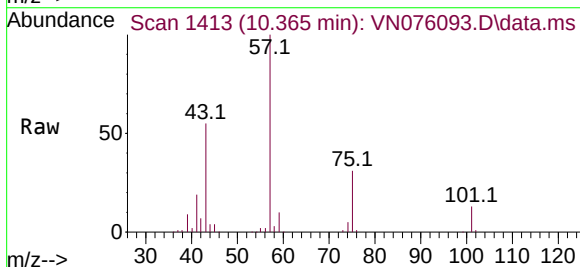
Instrument :
MSVOA_N
ClientSampleId :
TP-C2

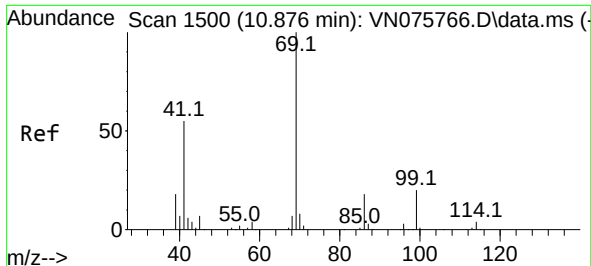
Tgt Ion: 75 Resp: 1455
Ion Ratio Lower Upper
75 100
77 34.7 24.9 37.3



#54
cis-1,3-Dichloropropene
Concen: 12.488 ug/l
RT: 10.365 min Scan# 1413
Delta R.T. 0.053 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

Tgt Ion: 75 Resp: 66227
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.8#
39 27.8 33.4 50.2#

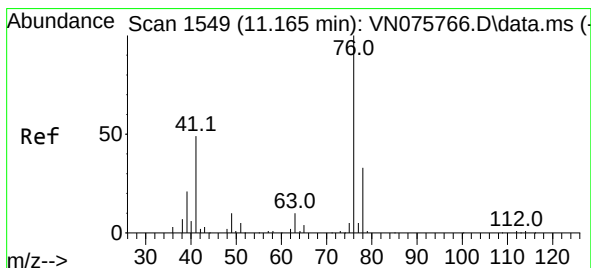
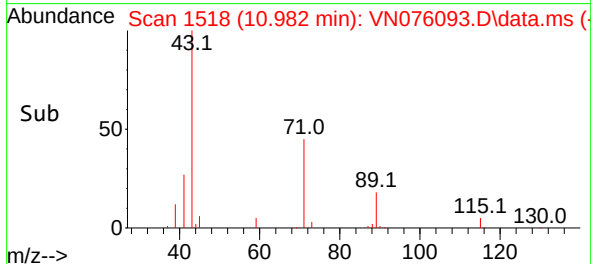
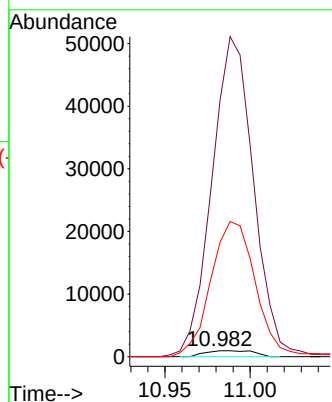
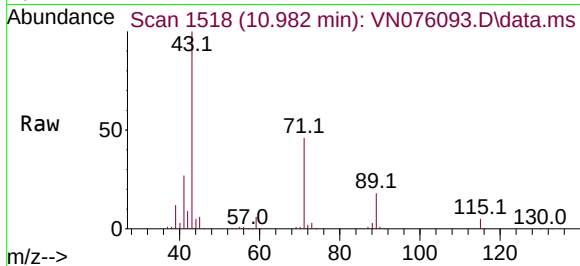




#56
Ethyl methacrylate
Concen: 0.398 ug/l
RT: 10.982 min Scan# 1518
Delta R.T. 0.106 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

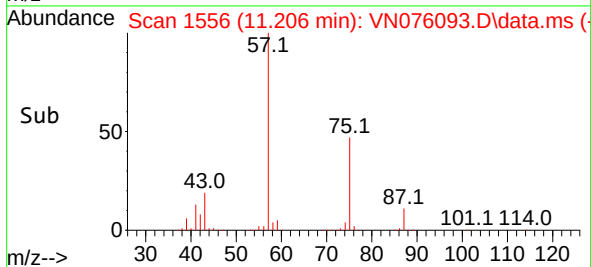
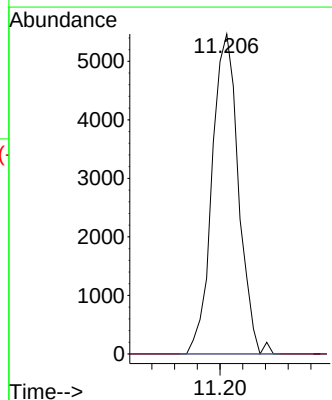
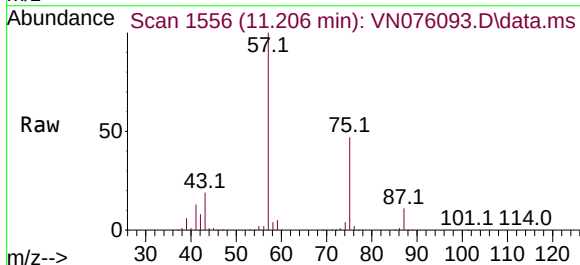
Instrument :
MSVOA_N
ClientSampleId :
TP-C2

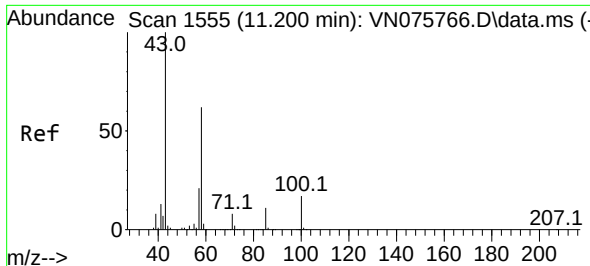
Tgt Ion: 69 Resp: 1882
Ion Ratio Lower Upper
69 100
41 4632.7 44.2 66.4#
39 2100.3 26.4 39.6#



#57
1,3-Dichloropropane
Concen: 1.510 ug/l
RT: 11.206 min Scan# 1556
Delta R.T. 0.041 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

Tgt Ion: 76 Resp: 8829
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.2#

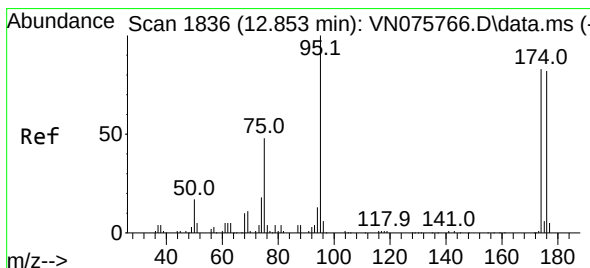
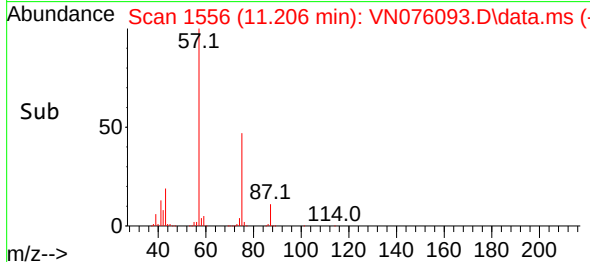
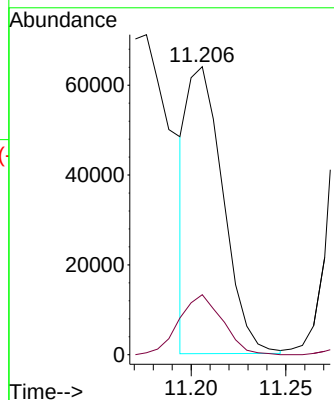
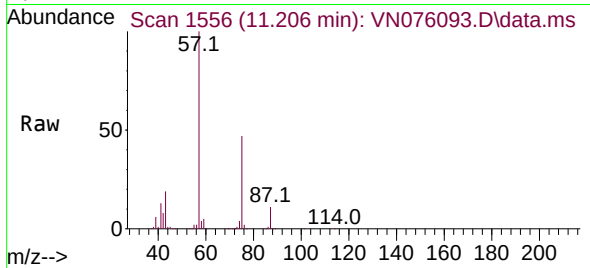




#59
2-Hexanone
Concen: 31.581 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

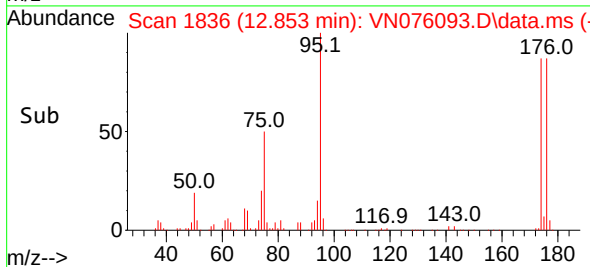
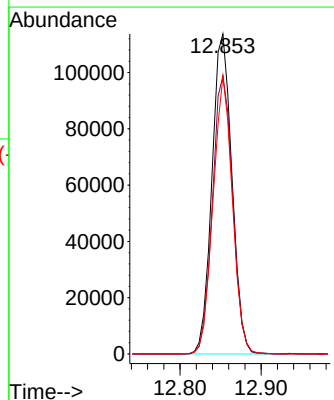
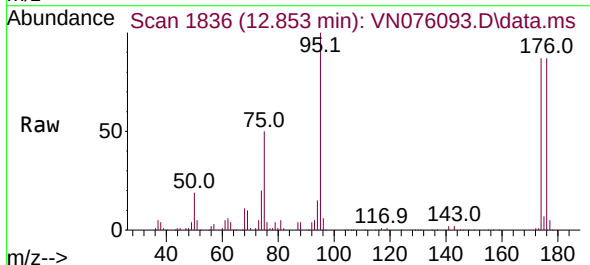
Instrument :
MSVOA_N
ClientSampleId :
TP-C2

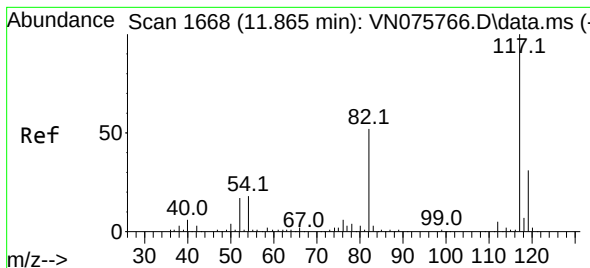
Tgt Ion: 43 Resp: 83392
Ion Ratio Lower Upper
43 100
58 25.7 30.6 92.0#



#62
4-Bromofluorobenzene
Concen: 46.099 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

Tgt Ion: 95 Resp: 194182
Ion Ratio Lower Upper
95 100
174 88.0 0.0 171.6
176 84.1 0.0 169.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.871 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN076093.D

Acq: 04 Jan 2023 19:55

Instrument :

MSVOA_N

ClientSampleId :

TP-C2

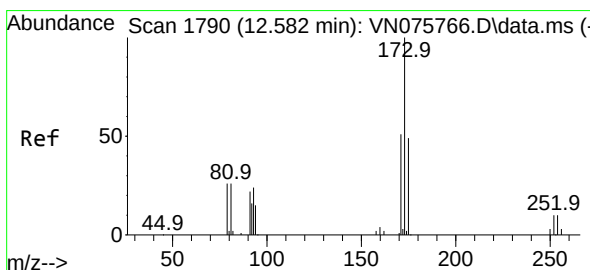
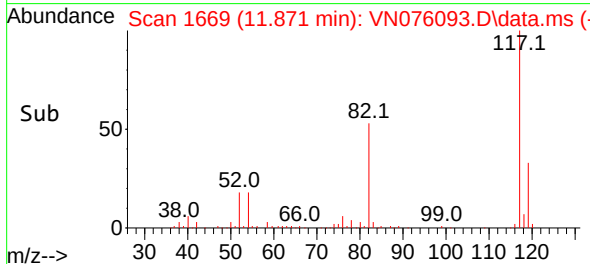
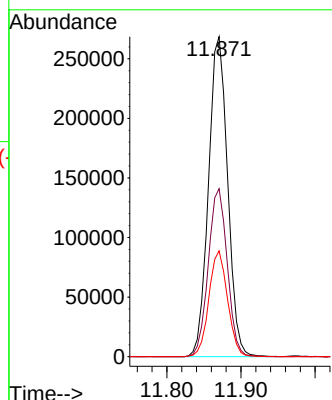
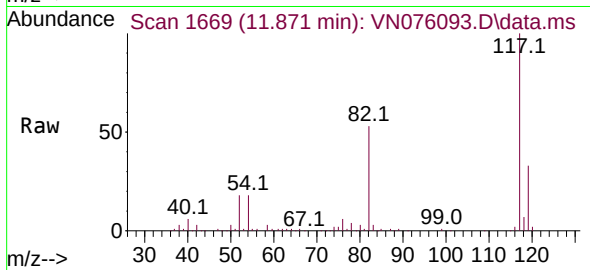
Tgt Ion:117 Resp: 481611

Ion Ratio Lower Upper

117 100

82 52.5 41.3 61.9

119 33.1 24.6 37.0



#71

Bromoform

Concen: 0.640 ug/l

RT: 12.853 min Scan# 1836

Delta R.T. 0.271 min

Lab File: VN076093.D

Acq: 04 Jan 2023 19:55

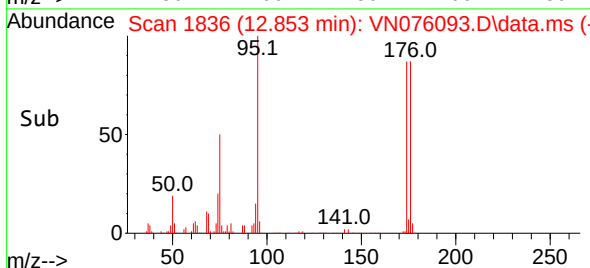
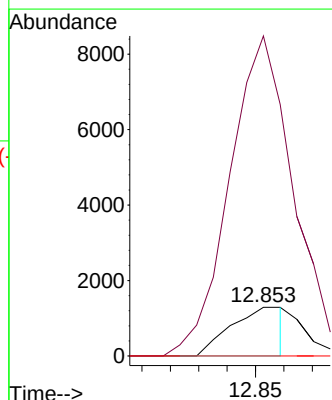
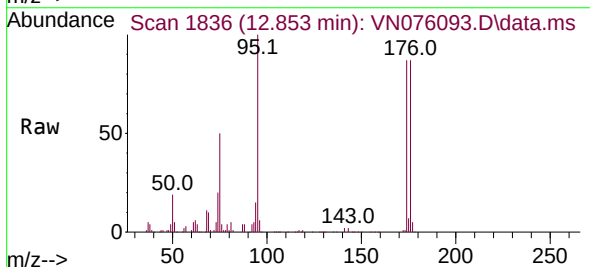
Tgt Ion:173 Resp: 1706

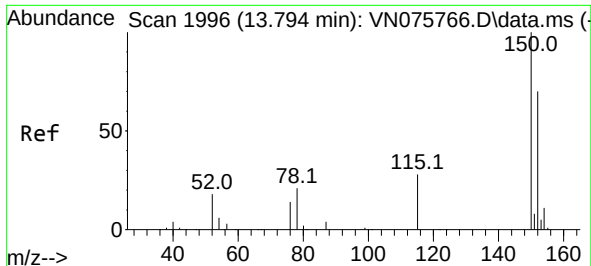
Ion Ratio Lower Upper

173 100

175 630.4 24.3 72.8#

254 0.0 0.0 0.0

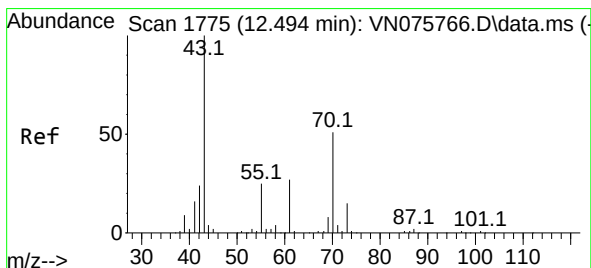
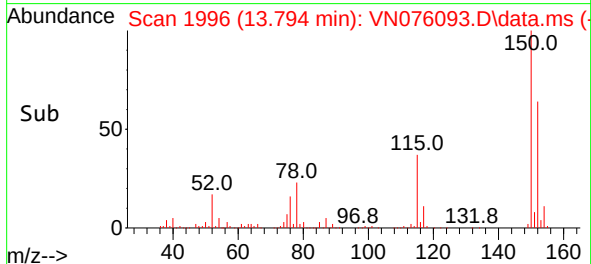
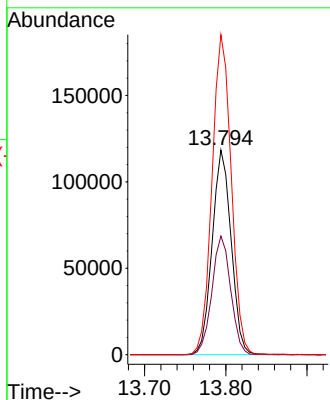
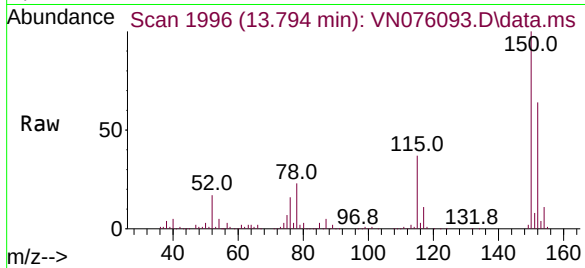




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

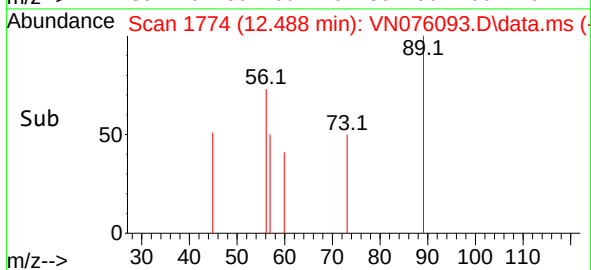
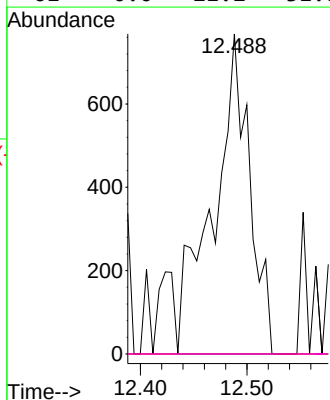
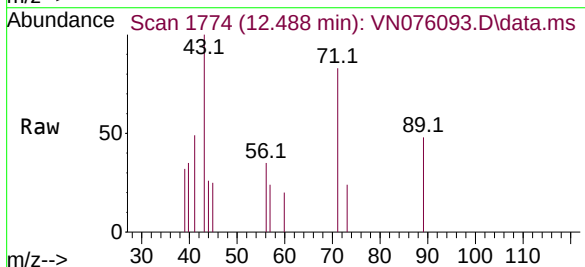
Instrument :
MSVOA_N
ClientSampleId :
TP-C2

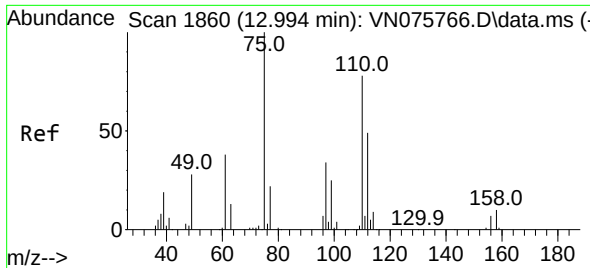
Tgt Ion:152 Resp: 192570
Ion Ratio Lower Upper
152 100
115 57.5 29.1 87.4
150 157.9 0.0 347.0



#74
N-ethyl acetate
Concen: 0.447 ug/l
RT: 12.488 min Scan# 1774
Delta R.T. -0.006 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

Tgt Ion: 43 Resp: 1826
Ion Ratio Lower Upper
43 100
70 0.0 41.4 62.0#
55 0.0 21.3 31.9#
61 0.0 21.2 31.8#

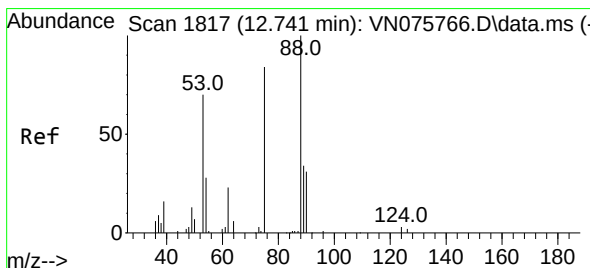
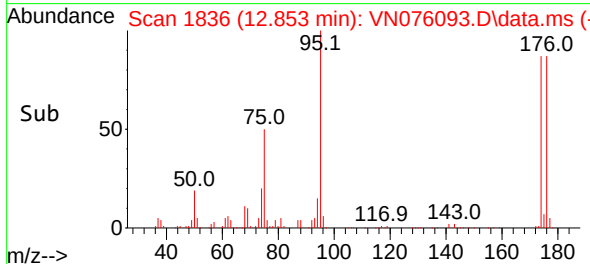
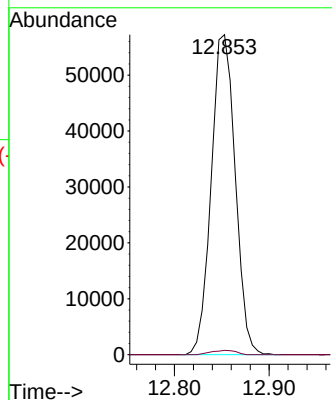
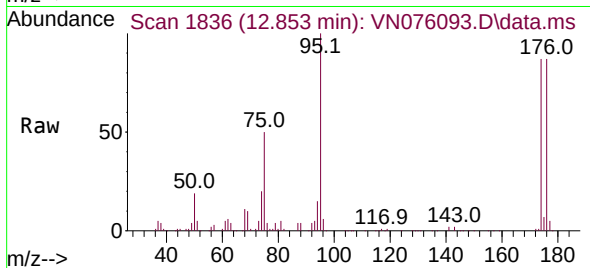




#76
1,2,3-Trichloropropane
Concen: 25.956 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

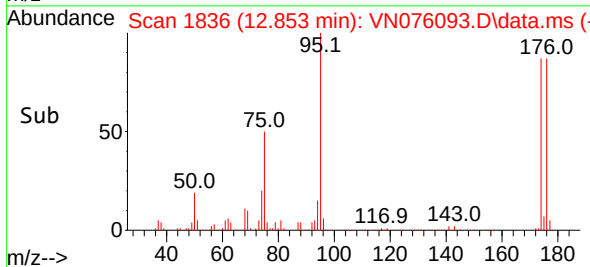
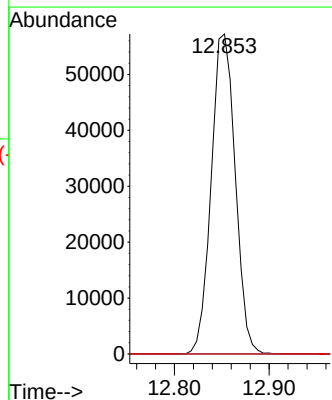
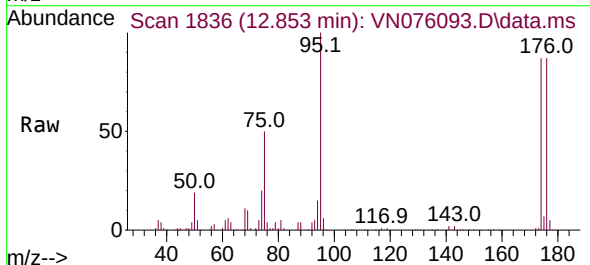
Instrument :
MSVOA_N
ClientSampleId :
TP-C2

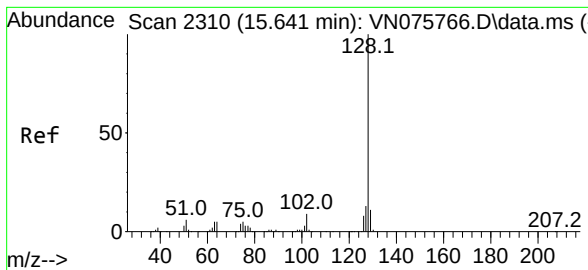
Tgt Ion: 75 Resp: 100753
Ion Ratio Lower Upper
75 100
77 1.4 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 93.427 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN076093.D
Acq: 04 Jan 2023 19:55

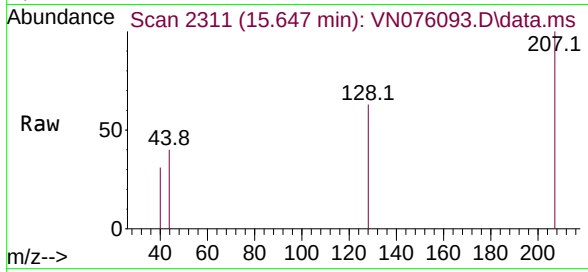
Tgt Ion: 75 Resp: 100753
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 39.5 59.3#





#95
 Naphthalene
 Concen: 2.204 ug/l
 RT: 15.647 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VN076093.D
 Acq: 04 Jan 2023 19:55

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-C2



Tgt Ion:	128	Resp:	291
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.7	13.1#

