

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090822\
 Data File : VN074363.D
 Acq On : 08 Sep 2022 17:27
 Operator : JC\MD
 Sample : N4452-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TB

Quant Time: Sep 09 05:38:04 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090822W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 09 05:24:20 2022
 Response via : Initial Calibration

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

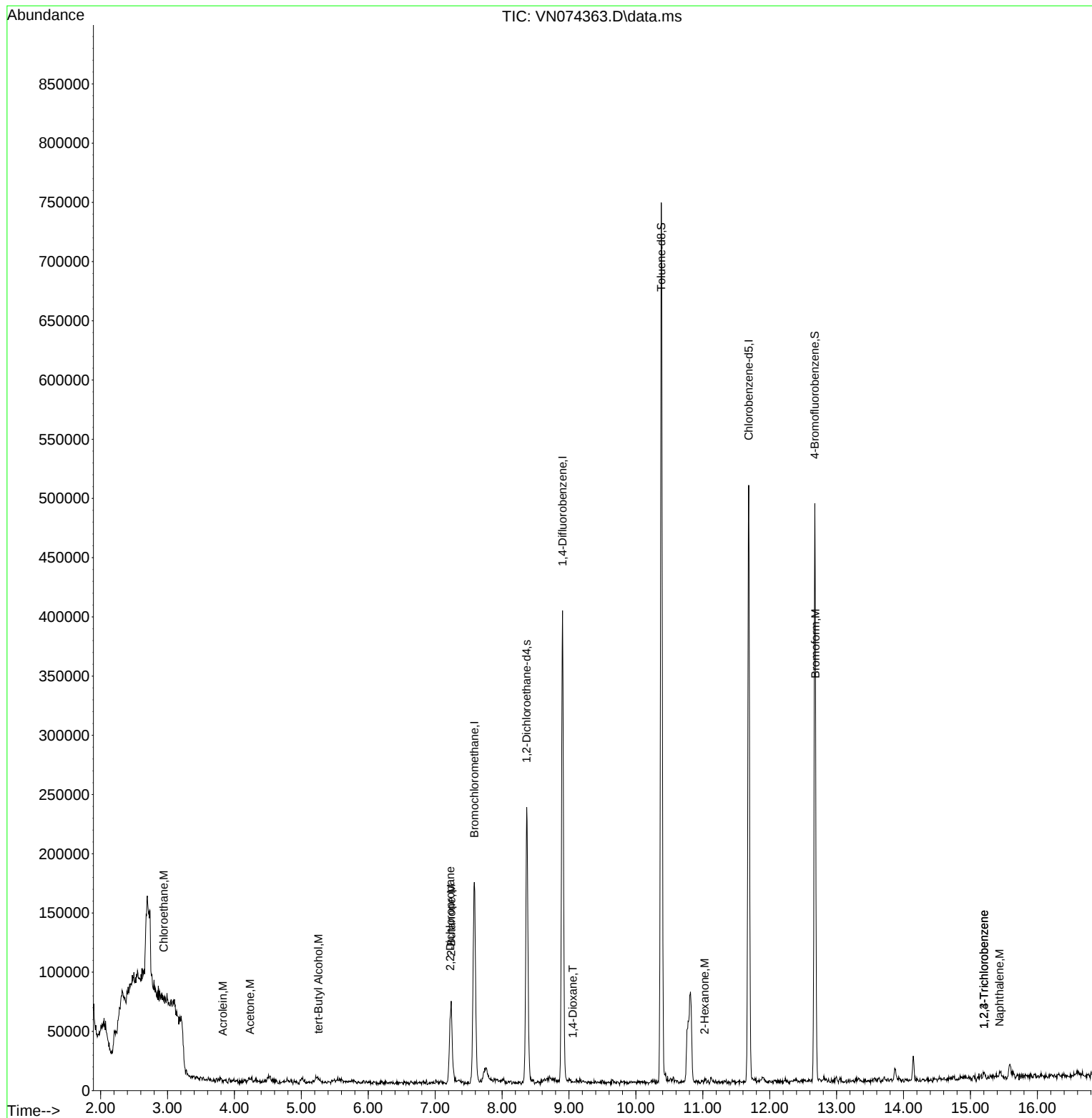
Internal Standards						
1) Bromochloromethane	7.587	128	54101	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	320369	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	264261	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	180184	32.439	ug/l	0.00
Spiked Amount	30.000	Range 91 - 110		Recovery	= 108.133%	
60) 4-Bromofluorobenzene	12.674	95	140843	26.651	ug/l	0.00
Spiked Amount	30.000	Range 63 - 112		Recovery	= 88.833%	
63) Toluene-d8	10.380	98	482797	32.526	ug/l	0.00
Spiked Amount	30.000	Range 91 - 112		Recovery	= 108.433%	
Target Compounds						
					Qvalue	
6) Chloroethane	2.946	64	2381	0.622	ug/l #	53
13) Acrolein	3.828	56	244	0.231	ug/l	85
15) Acetone	4.234	58	542	0.673	ug/l #	1
23) tert-Butyl Alcohol	5.257	59	1353	1.029	ug/l #	100
30) 2-Butanone	7.239	43	989	0.219	ug/l #	67
31) 2,2-Dichloropropane	7.228	77	2972	0.381	ug/l #	53
45) 1,4-Dioxane	9.057	88	186	1.413	ug/l #	1
56) Bromoform	12.686	173	1447	0.356	ug/l #	1
59) 2-Hexanone	11.027	43	1789	0.280	ug/l #	41
89) 1,2,4-Trichlorobenzene	15.204	180	1042	0.221	ug/l #	53
91) Naphthalene	15.433	128	3782	0.200	ug/l #	80
92) 1,2,3-Trichlorobenzene	15.204	180	1042	0.218	ug/l	54

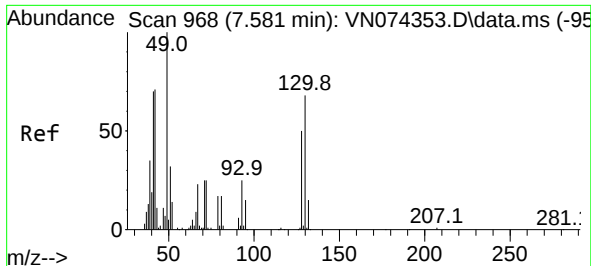
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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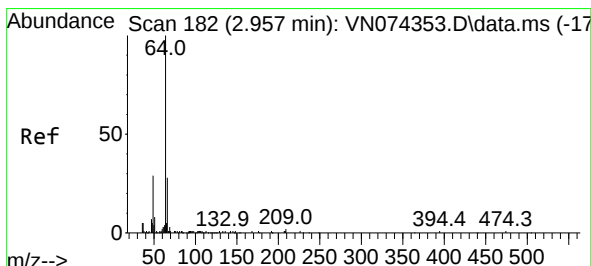
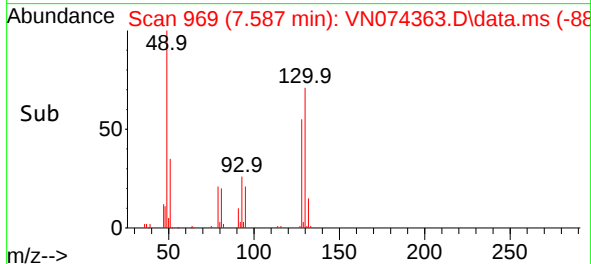
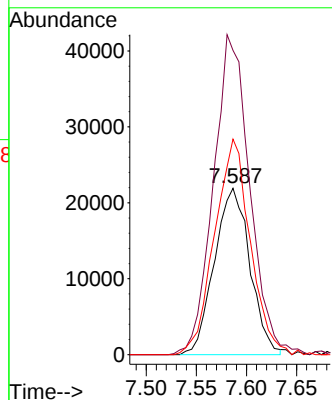
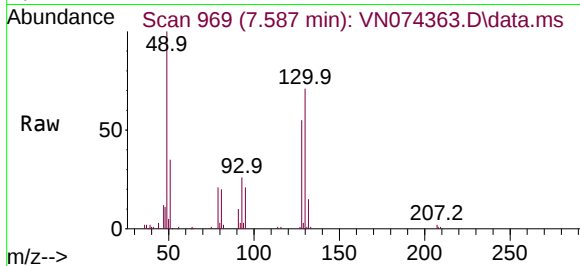




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.587 min Scan# 90
Delta R.T. 0.005 min
Lab File: VN074363.D
Acq: 08 Sep 2022 17:27

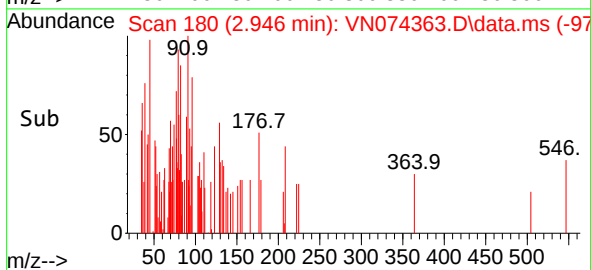
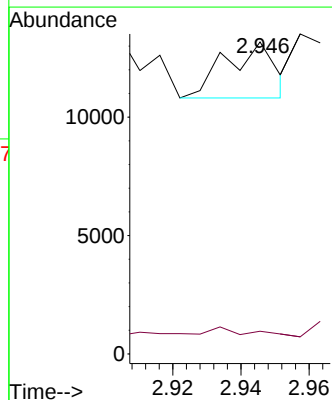
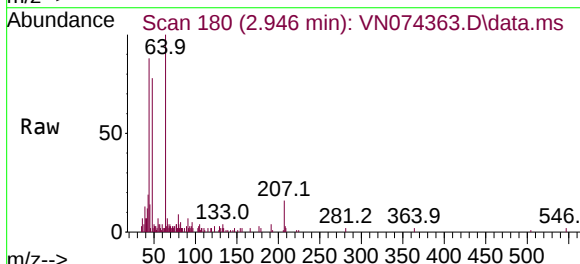
Instrument :
MSVOA_N
ClientSampleId :
TB

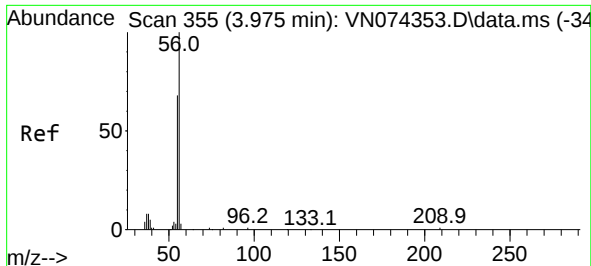
Tgt Ion:128 Resp: 54101
Ion Ratio Lower Upper
128 100
49 196.1 0.0 392.3
130 129.8 0.0 320.2



#6
Chloroethane
Concen: 0.622 ug/l
RT: 2.946 min Scan# 180
Delta R.T. -0.011 min
Lab File: VN074363.D
Acq: 08 Sep 2022 17:27

Tgt Ion: 64 Resp: 2381
Ion Ratio Lower Upper
64 100
66 4.9 24.6 36.8#

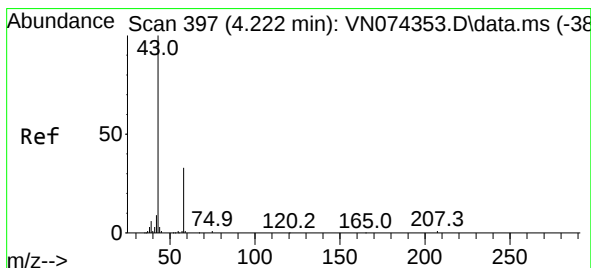
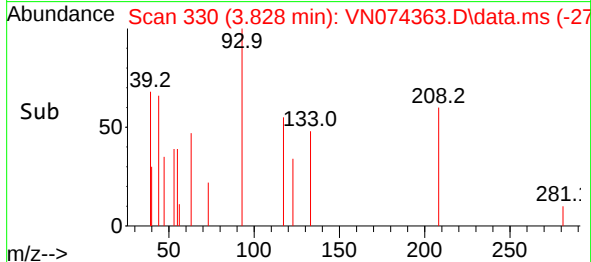
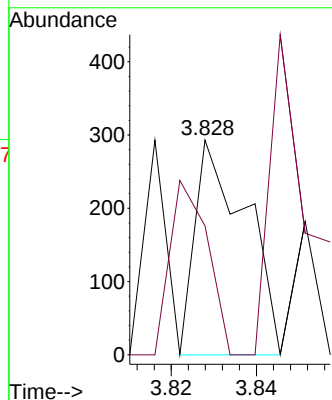
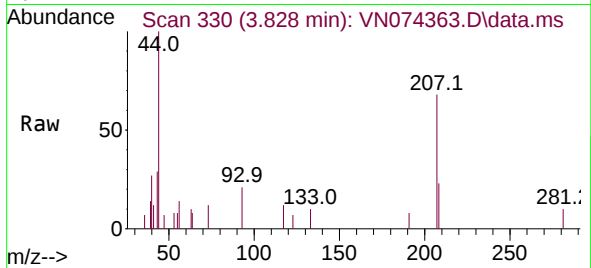




#13
Acrolein
Concen: 0.231 ug/l
RT: 3.828 min Scan# 311
Delta R.T. -0.147 min
Lab File: VN074363.D
Acq: 08 Sep 2022 17:27

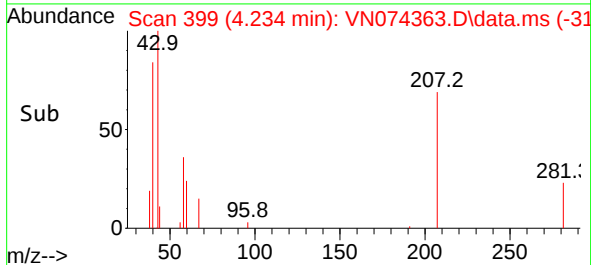
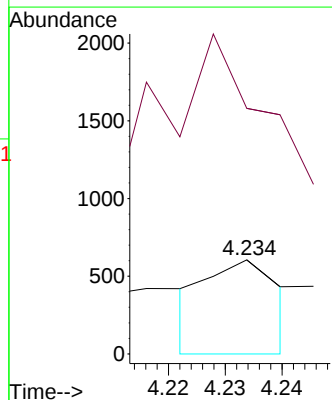
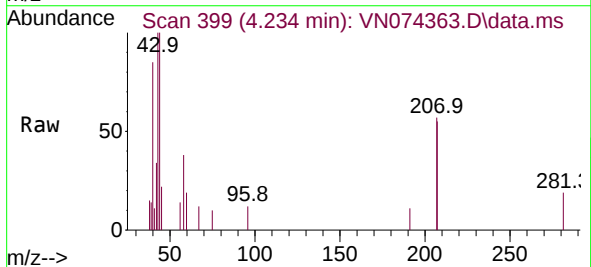
Instrument :
MSVOA_N
ClientSampleId :
TB

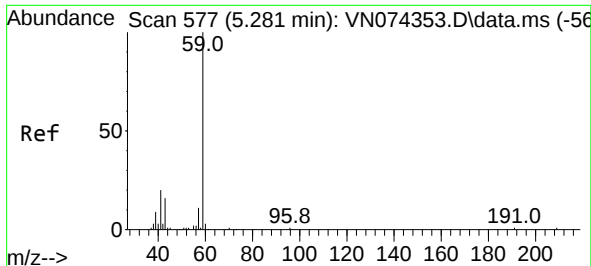
Tgt Ion: 56 Resp: 244
Ion Ratio Lower Upper
56 100
55 59.8 57.6 86.4



#15
Acetone
Concen: 0.673 ug/l
RT: 4.234 min Scan# 399
Delta R.T. 0.012 min
Lab File: VN074363.D
Acq: 08 Sep 2022 17:27

Tgt Ion: 58 Resp: 542
Ion Ratio Lower Upper
58 100
43 98.9 256.6 384.8#

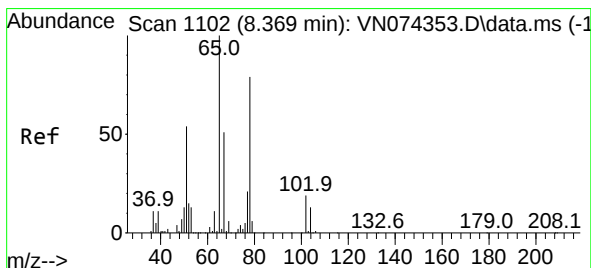
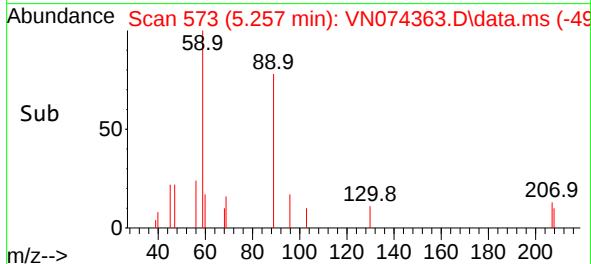
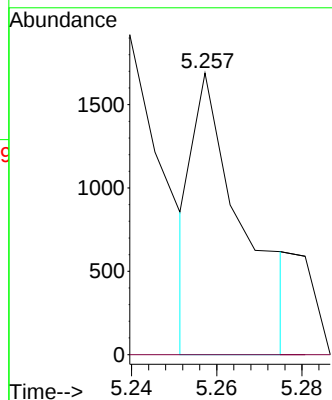
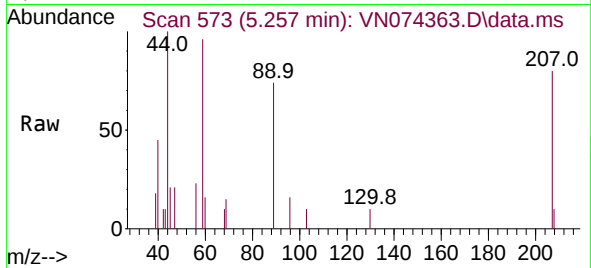




#23
tert-Butyl Alcohol
Concen: 1.029 ug/l
RT: 5.257 min Scan# 51
Delta R.T. -0.023 min
Lab File: VN074363.D
Acq: 08 Sep 2022 17:27

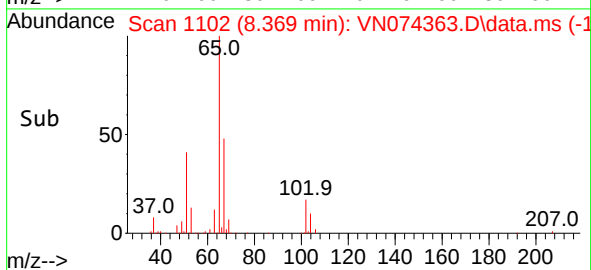
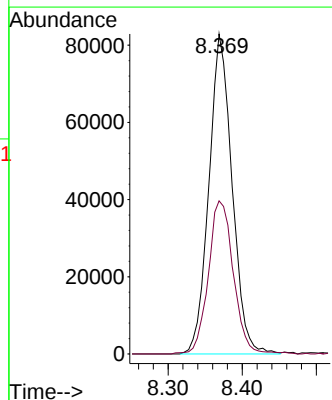
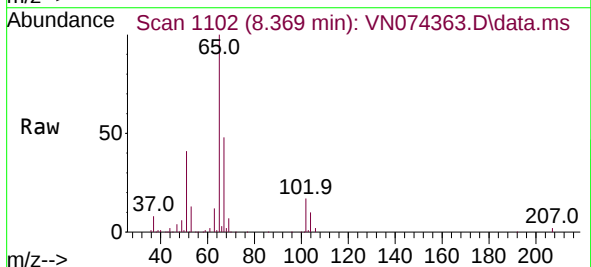
Instrument :
MSVOA_N
ClientSampleId :
TB

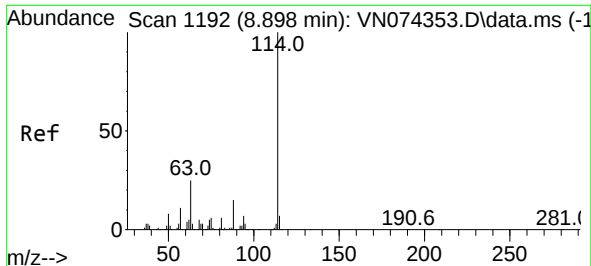
Tgt Ion: 59 Resp: 1353
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 32.439 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VN074363.D
Acq: 08 Sep 2022 17:27

Tgt Ion: 65 Resp: 180184
Ion Ratio Lower Upper
65 100
67 50.2 40.2 60.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.006 min

Lab File: VN074363.D

Acq: 08 Sep 2022 17:27

Instrument :

MSVOA_N

ClientSampleId :

TB

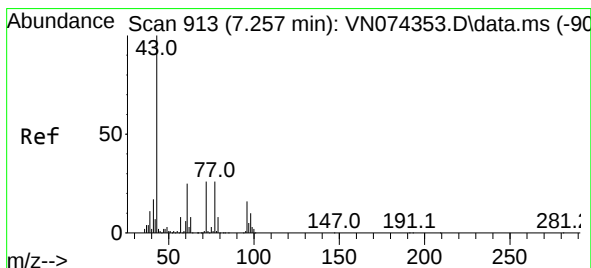
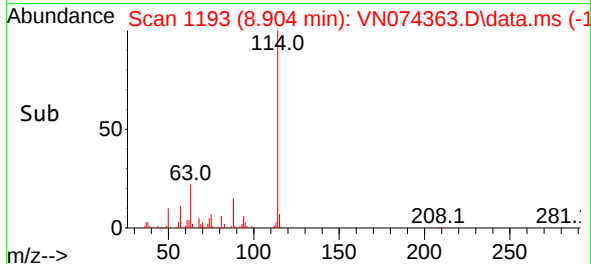
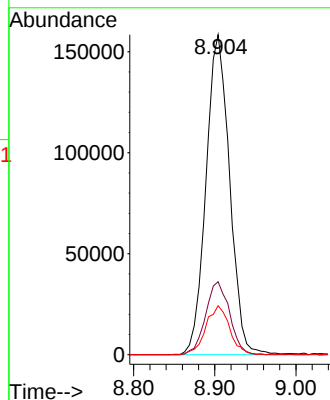
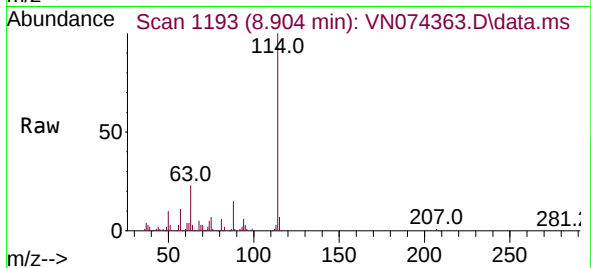
Tgt Ion:114 Resp: 320369

Ion Ratio Lower Upper

114 100

63 23.1 15.8 23.6

88 15.5 11.6 17.4



#30

2-Butanone

Concen: 0.219 ug/l

RT: 7.239 min Scan# 910

Delta R.T. -0.018 min

Lab File: VN074363.D

Acq: 08 Sep 2022 17:27

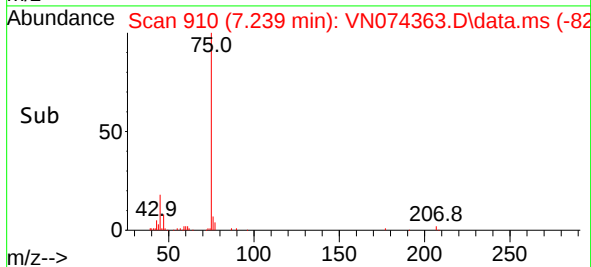
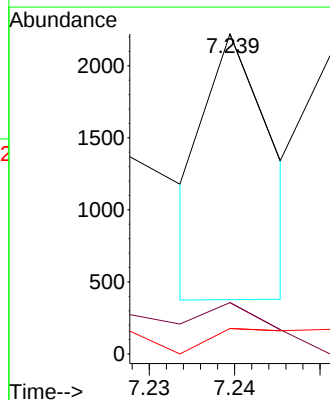
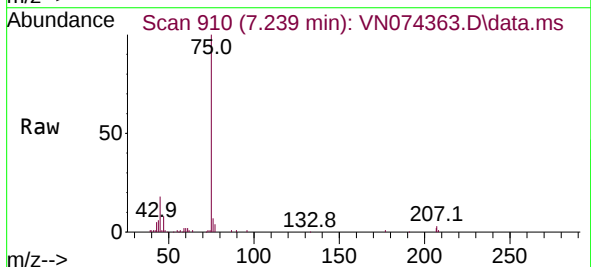
Tgt Ion: 43 Resp: 989

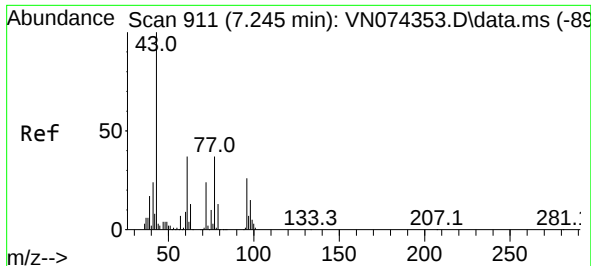
Ion Ratio Lower Upper

43 100

57 35.9 6.7 10.1#

72 18.2 23.2 34.8#

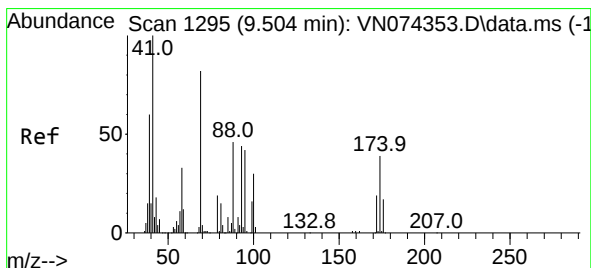
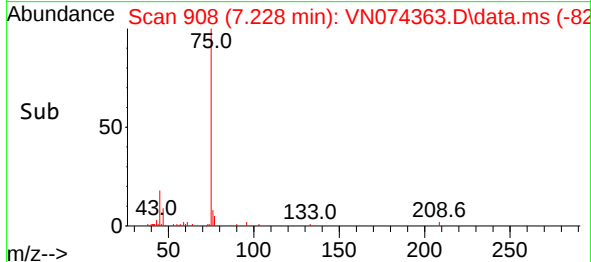
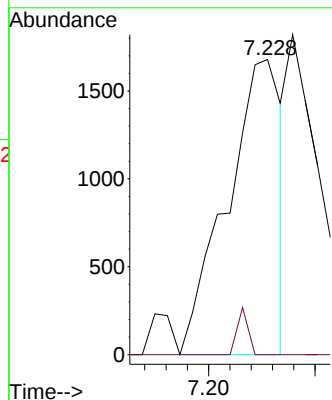
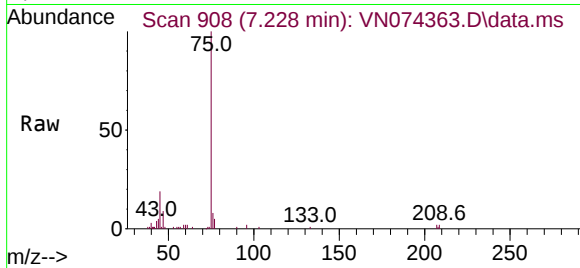




#31
2,2-Dichloropropane
Concen: 0.381 ug/l
RT: 7.228 min Scan# 911
Delta R.T. -0.018 min
Lab File: VN074363.D
Acq: 08 Sep 2022 17:27

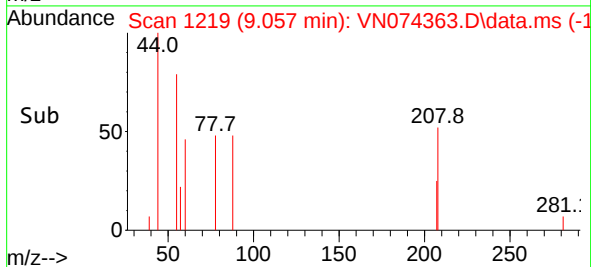
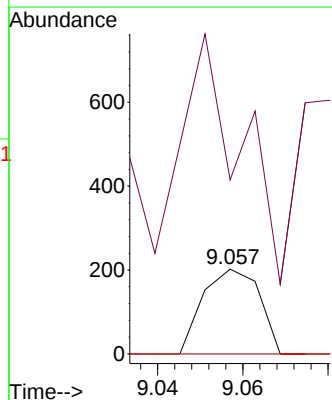
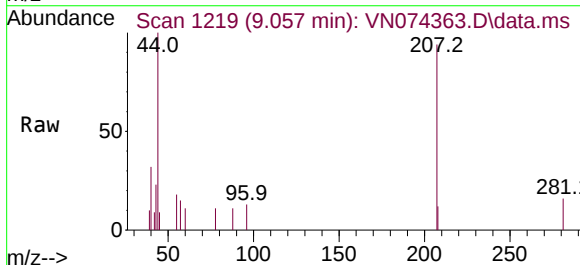
Instrument :
MSVOA_N
ClientSampleId :
TB

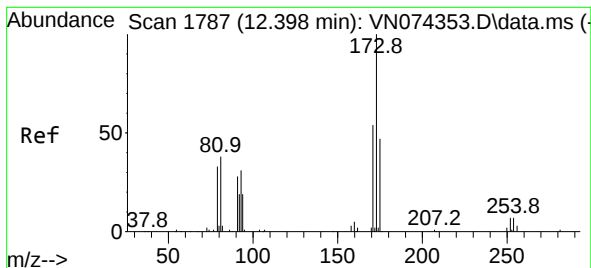
Tgt Ion: 77 Resp: 2972
Ion Ratio Lower Upper
77 100
97 0.0 18.3 27.5#



#45
1,4-Dioxane
Concen: 1.413 ug/l
RT: 9.057 min Scan# 1219
Delta R.T. -0.447 min
Lab File: VN074363.D
Acq: 08 Sep 2022 17:27

Tgt Ion: 88 Resp: 186
Ion Ratio Lower Upper
88 100
43 302.2 25.0 37.6#
58 0.0 49.4 74.2#





#56

Bromoform

Concen: 0.356 ug/l

RT: 12.686 min Scan# 1836

Delta R.T. 0.288 min

Lab File: VN074363.D

Acq: 08 Sep 2022 17:27

Instrument :

MSVOA_N

ClientSampleId :

TB

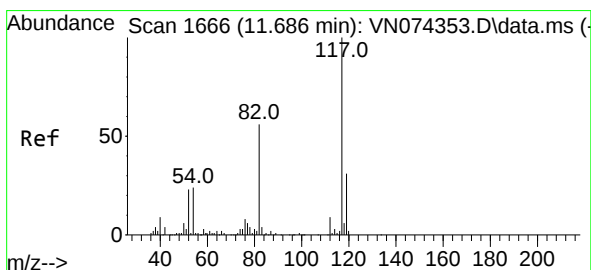
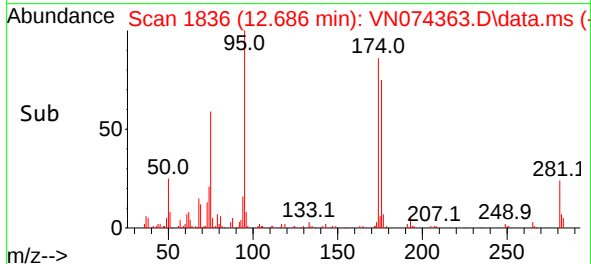
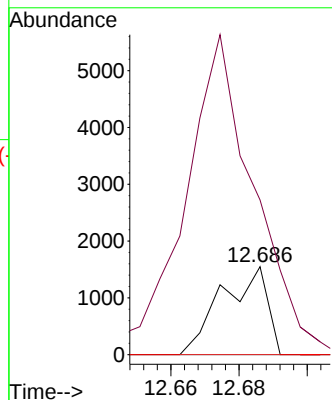
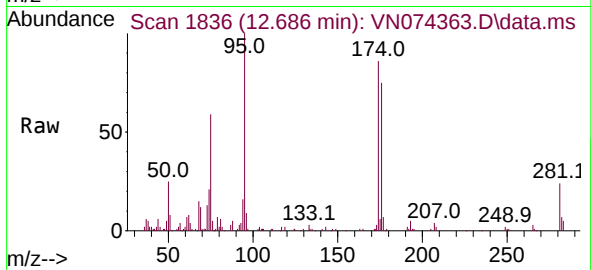
Tgt Ion:173 Resp: 1447

Ion Ratio Lower Upper

173 100

175 548.8 38.6 58.0#

254 0.0 0.0 0.0



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.686 min Scan# 1666

Delta R.T. 0.000 min

Lab File: VN074363.D

Acq: 08 Sep 2022 17:27

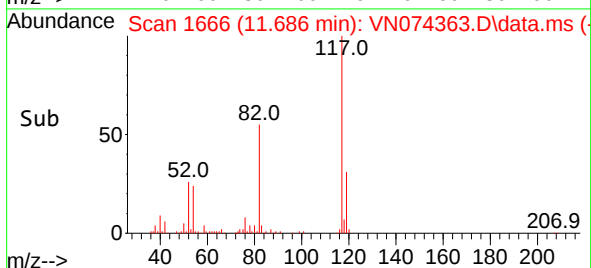
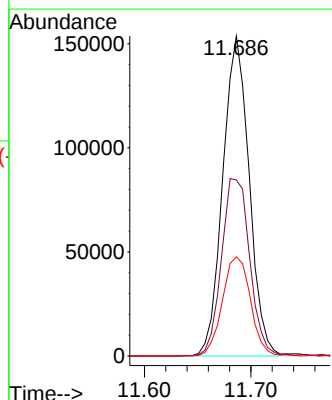
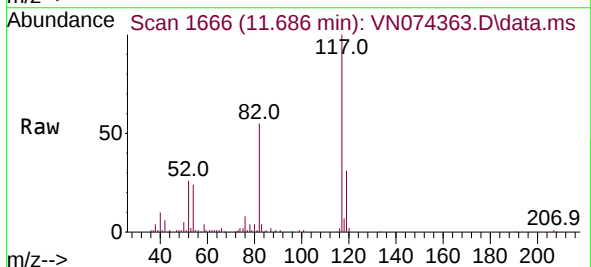
Tgt Ion:117 Resp: 264261

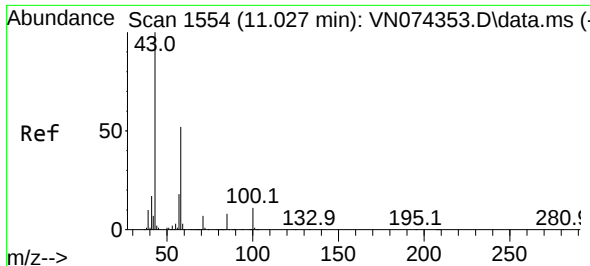
Ion Ratio Lower Upper

117 100

82 59.4 43.6 65.4

119 33.1 25.8 38.6

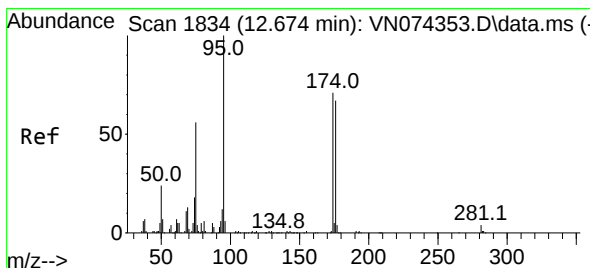
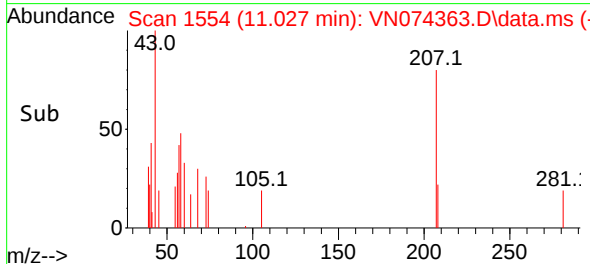
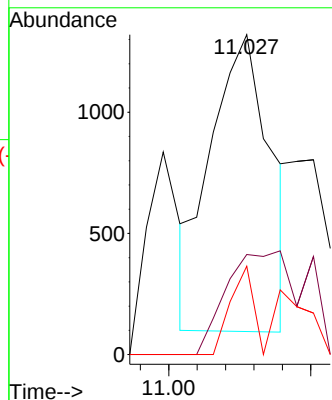
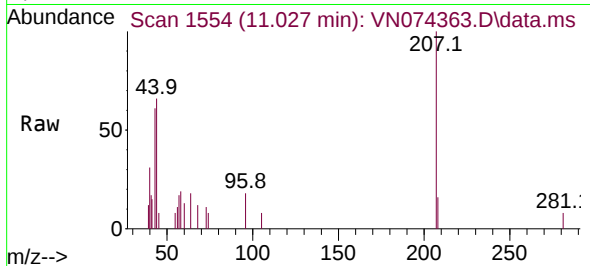




#59
2-Hexanone
Concen: 0.280 ug/l
RT: 11.027 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN074363.D
Acq: 08 Sep 2022 17:27

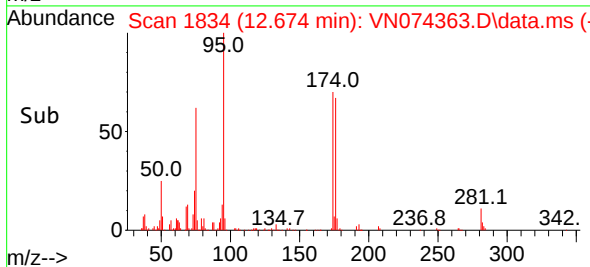
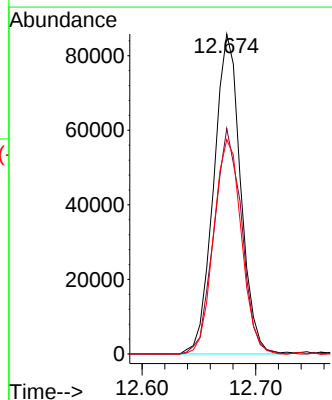
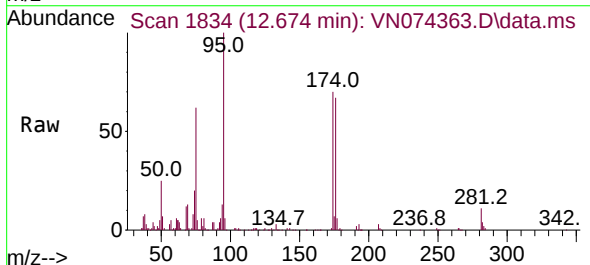
Instrument :
MSVOA_N
ClientSampleId :
TB

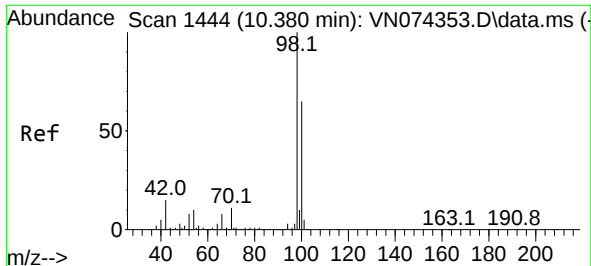
Tgt Ion: 43 Resp: 1789
Ion Ratio Lower Upper
43 100
58 0.0 42.2 63.2#
57 11.5 15.0 22.4#



#60
4-Bromofluorobenzene
Concen: 26.651 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN074363.D
Acq: 08 Sep 2022 17:27

Tgt Ion: 95 Resp: 140843
Ion Ratio Lower Upper
95 100
174 72.3 62.9 94.3
176 69.3 61.0 91.4

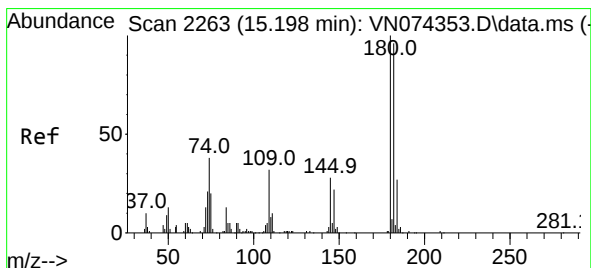
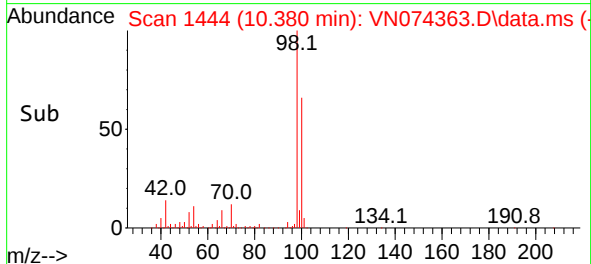
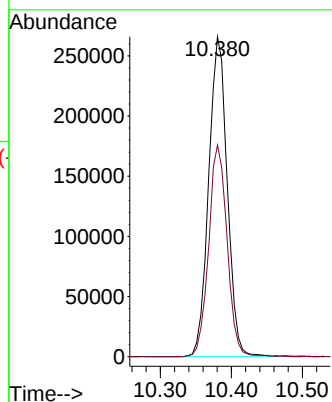
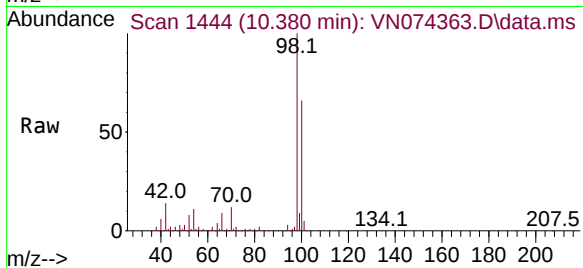




#63
Toluene-d8
Concen: 32.526 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN074363.D
Acq: 08 Sep 2022 17:27

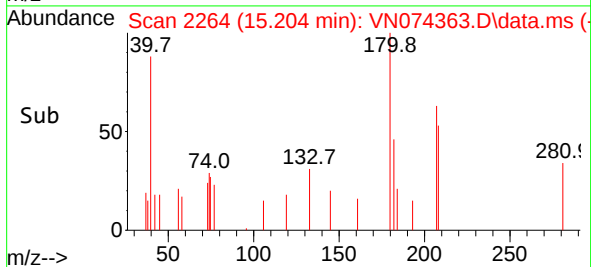
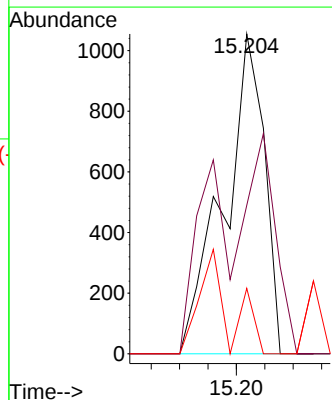
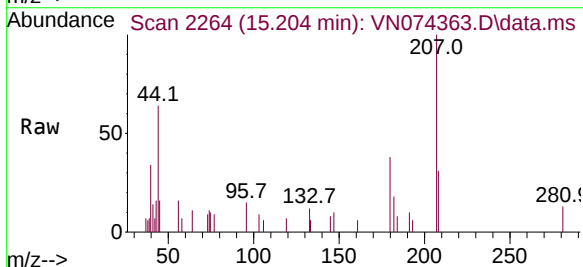
Instrument :
MSVOA_N
ClientSampleId :
TB

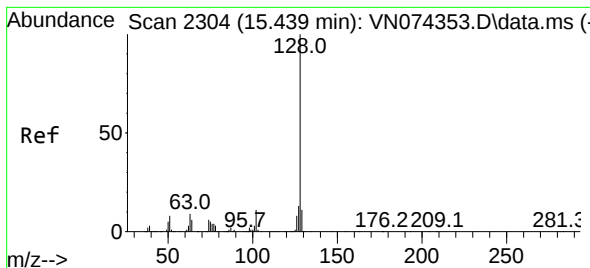
Tgt Ion: 98 Resp: 482797
Ion Ratio Lower Upper
98 100
100 65.3 50.6 76.0



#89
1,2,4-Trichlorobenzene
Concen: 0.221 ug/l
RT: 15.204 min Scan# 2264
Delta R.T. 0.006 min
Lab File: VN074363.D
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Tgt Ion:180 Resp: 1042
Ion Ratio Lower Upper
180 100
182 51.0 77.7 116.5#
145 7.3 26.6 39.8#





#91

Naphthalene

Concen: 0.200 ug/l

RT: 15.433 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN074363.D

Acq: 08 Sep 2022 17:27

Instrument :

MSVOA_N

ClientSampleId :

TB

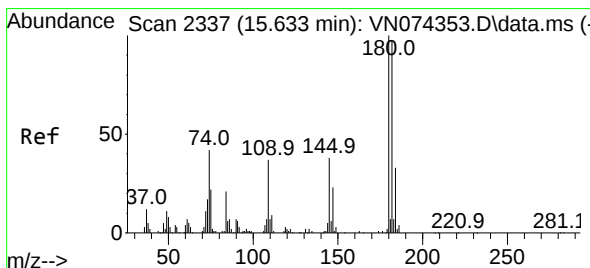
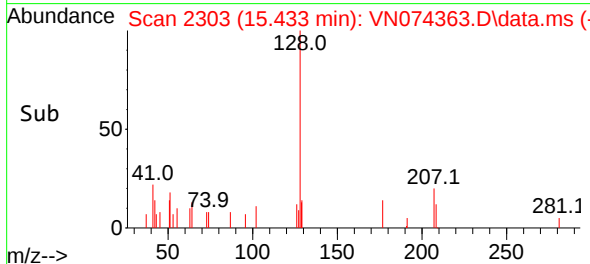
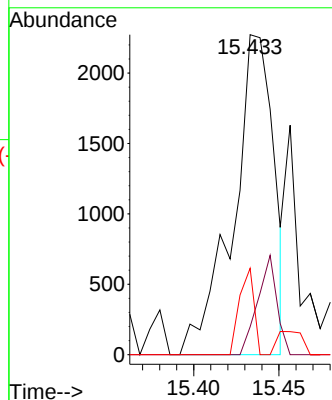
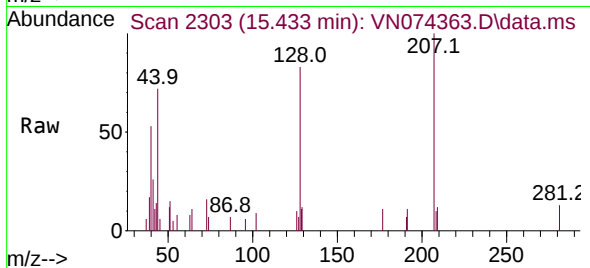
Tgt Ion:128 Resp: 3782

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 9.7 9.0 13.6



#92

1,2,3-Trichlorobenzene

Concen: 0.218 ug/l

RT: 15.204 min Scan# 2264

Delta R.T. -0.429 min

Lab File: VN074363.D

Acq: 08 Sep 2022 17:27

Tgt Ion:180 Resp: 1042

Ion Ratio Lower Upper

180 100

182 51.0 0.0 190.0

145 7.3 0.0 67.8

