

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091322\
 Data File : VN074447.D
 Acq On : 13 Sep 2022 20:58
 Operator : JC\MD
 Sample : N4492-19
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BR-01-180-200-090122-H

Quant Time: Sep 14 08:06:22 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N090922W.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 10 06:10:29 2022
 Response via : Initial Calibration

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

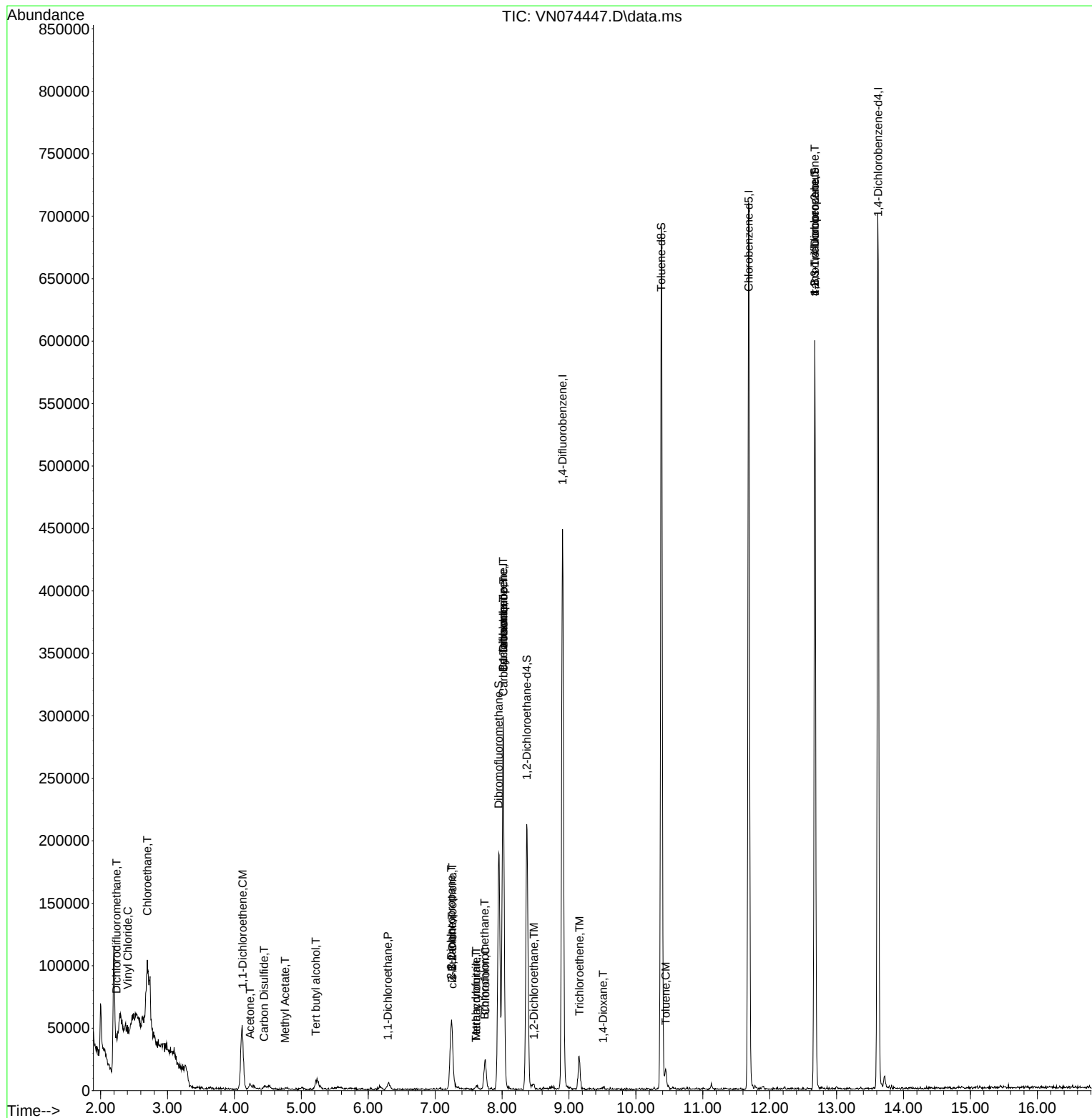
Internal Standards						
1) Pentafluorobenzene	8.016	168	189871	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	351347	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	347014	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.621	152	156185	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	166833	50.786	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.580%			
35) Dibromofluoromethane	7.951	113	130051	54.829	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.660%			
50) Toluene-d8	10.380	98	432684	46.816	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.640%			
62) 4-Bromofluorobenzene	12.674	95	174104	51.886	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 103.780%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.240	85	508	0.206	ug/l #	42
3) Chloromethane	2.263	50	1996	Below Cal	#	86
4) Vinyl Chloride	2.404	62	1690	0.411	ug/l #	45
6) Chloroethane	2.698	64	23650	5.437	ug/l #	55
11) Tert butyl alcohol	5.216	59	8223	9.570	ug/l #	77
12) 1,1-Dichloroethene	4.122	96	25612	10.821	ug/l	88
16) Acetone	4.234	43	5900	3.327	ug/l #	83
17) Carbon Disulfide	4.445	76	2451	0.381	ug/l #	77
18) Methyl Acetate	4.757	43	1102	0.211	ug/l #	89
20) Methylene Chloride	5.004	84	946	Below Cal	#	47
24) 1,1-Dichloroethane	6.292	63	7592	1.413	ug/l #	85
25) 2-Butanone	7.251	43	1635	0.549	ug/l #	52
26) 2,2-Dichloropropane	7.239	77	3296	0.678	ug/l #	62
27) cis-1,2-Dichloroethene	7.257	96	12410	3.798	ug/l	81
28) Bromochloromethane	7.739	49	1814	0.240	ug/l #	20
29) Tetrahydrofuran	7.610	42	2189	1.112	ug/l #	67
30) Chloroform	7.751	83	17991	3.356	ug/l	92
31) Cyclohexane	8.016	56	6630	1.269	ug/l #	52
36) 1,1-Dichloropropene	8.016	75	21350	5.464	ug/l #	50
38) Carbon Tetrachloride	8.022	117	23698	5.874	ug/l #	15
41) Methacrylonitrile	7.616	41	1446	0.514	ug/l #	46
42) 1,2-Dichloroethane	8.475	62	3369	0.737	ug/l	80
44) Trichloroethene	9.157	130	9256	3.451	ug/l	78
49) 1,4-Dioxane	9.510	88	983	11.418	ug/l #	77
52) Toluene	10.445	92	5614	0.759	ug/l	91
74) N-amyl acetate	12.333	43	236	Below Cal	#	45
76) 1,2,3-Trichloropropane	12.674	75	105280	25.785	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	105280	57.475	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.645	75	105	Below Cal	#	8

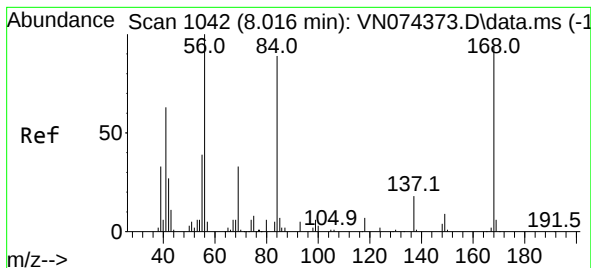
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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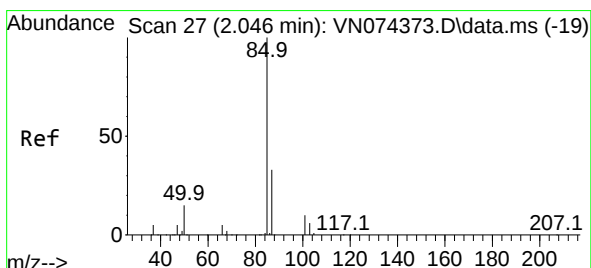
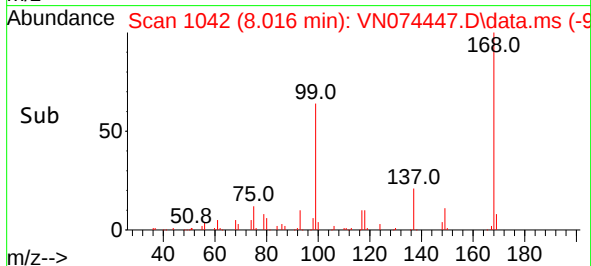
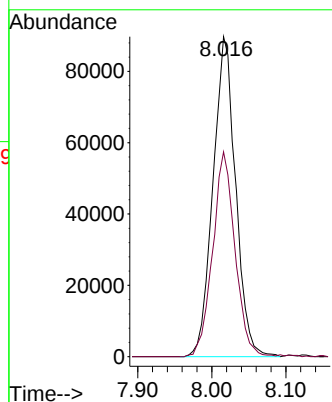
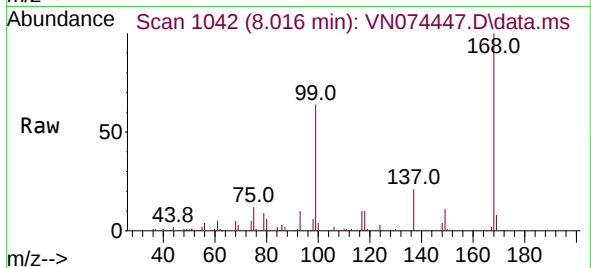




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

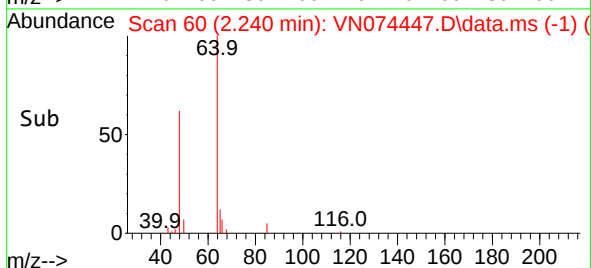
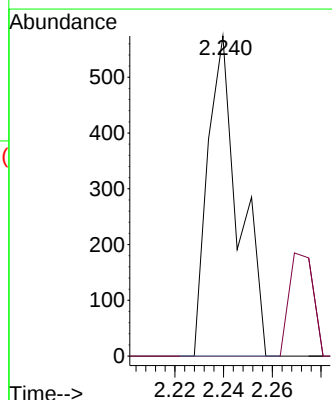
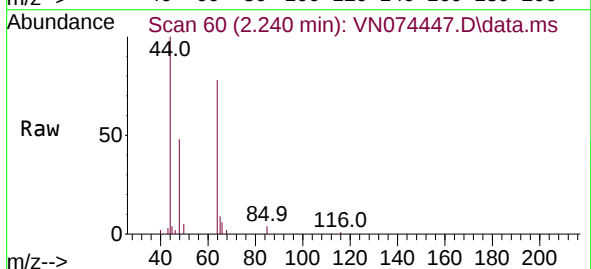
Instrument :
MSVOA_N
ClientSampleId :
BR-01-180-200-090122-H

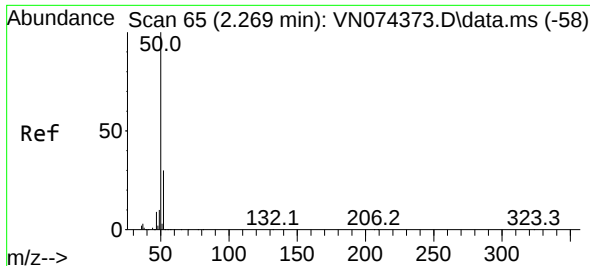
Tgt Ion:168 Resp: 189871
Ion Ratio Lower Upper
168 100
99 64.0 52.8 79.2



#2
Dichlorodifluoromethane
Concen: 0.206 ug/l
RT: 2.240 min Scan# 60
Delta R.T. 0.194 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

Tgt Ion: 85 Resp: 508
Ion Ratio Lower Upper
85 100
87 0.0 16.4 49.2#

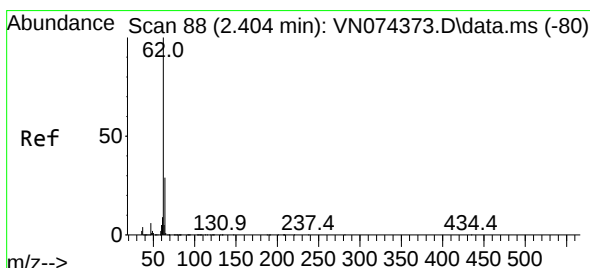
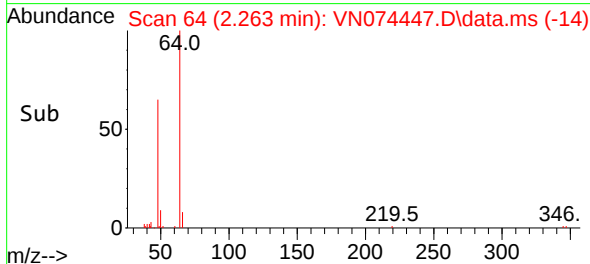
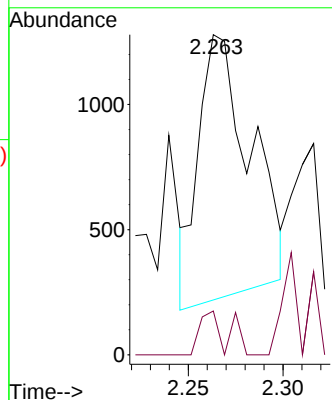
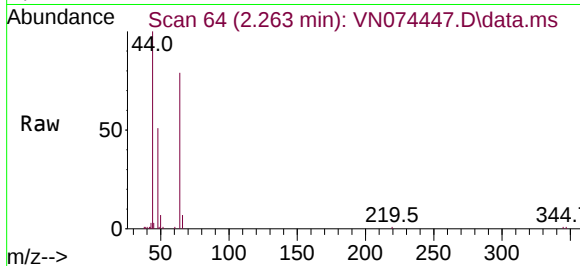




#3
Chloromethane
Concen: Below Cal
RT: 2.263 min Scan# 64
Delta R.T. -0.006 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

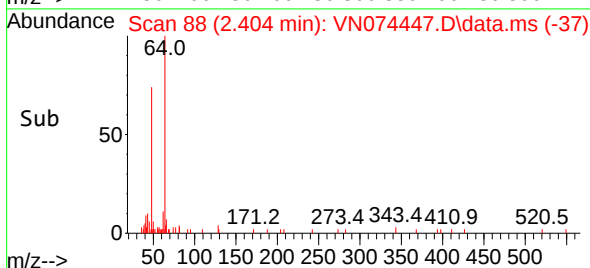
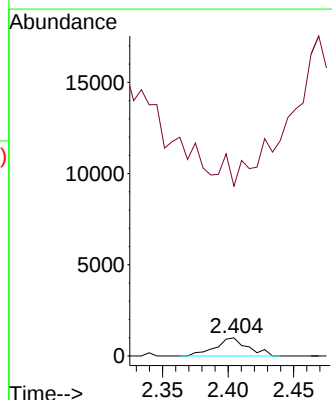
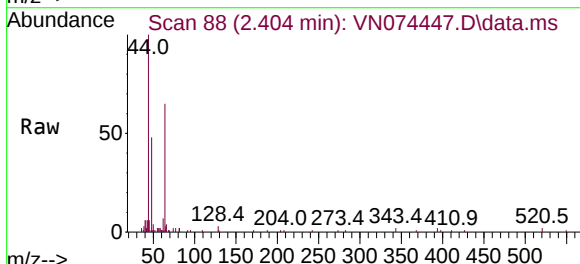
Instrument :
MSVOA_N
ClientSampleId :
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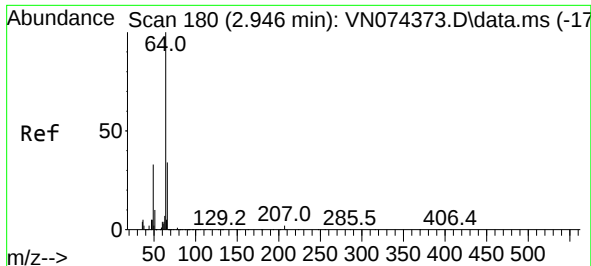
Tgt Ion: 50 Resp: 1996
Ion Ratio Lower Upper
50 100
52 22.4 24.1 36.1#



#4
Vinyl Chloride
Concen: 0.411 ug/l
RT: 2.404 min Scan# 88
Delta R.T. -0.000 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

Tgt Ion: 62 Resp: 1690
Ion Ratio Lower Upper
62 100
64 0.0 23.5 35.3#

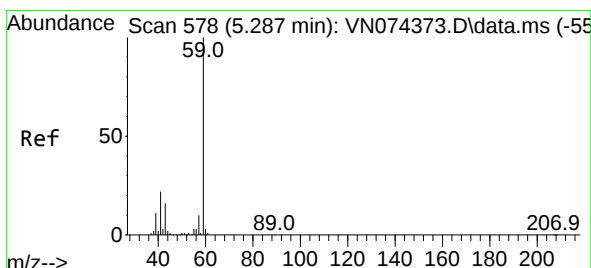
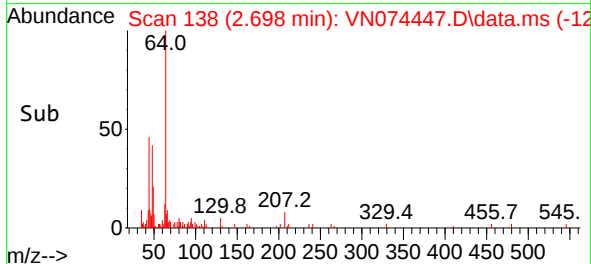
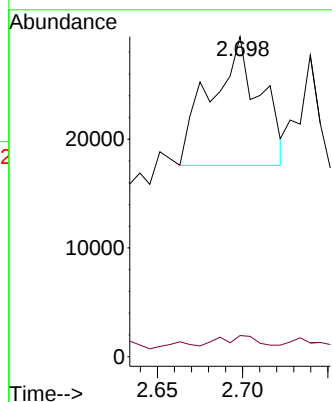
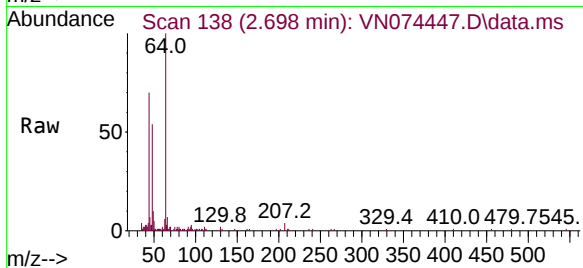




#6
Chloroethane
Concen: 5.437 ug/l
RT: 2.698 min Scan# 11
Delta R.T. -0.248 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

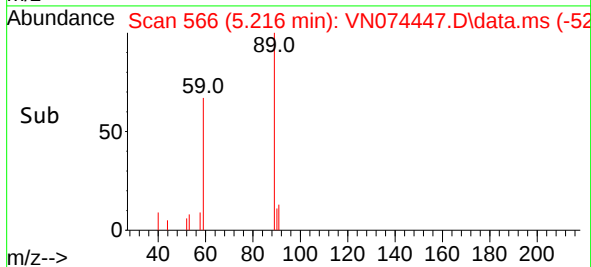
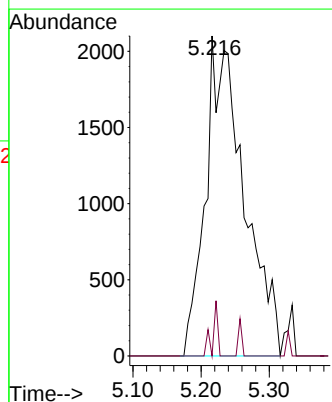
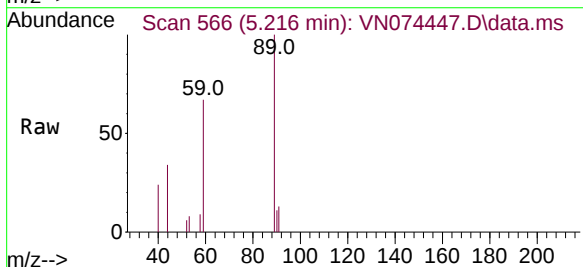
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BR-01-180-200-090122-H

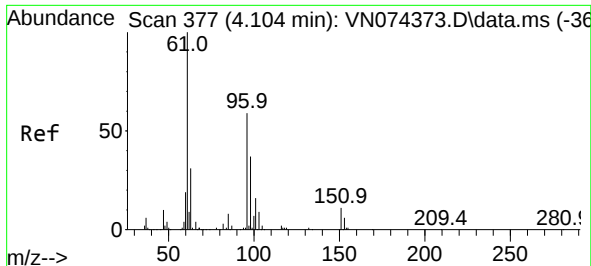
Tgt Ion: 64 Resp: 23650
Ion Ratio Lower Upper
64 100
66 7.5 26.5 39.7#



#11
Tert butyl alcohol
Concen: 9.570 ug/l
RT: 5.216 min Scan# 566
Delta R.T. -0.071 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

Tgt Ion: 59 Resp: 8223
Ion Ratio Lower Upper
59 100
57 2.3 8.8 13.2#

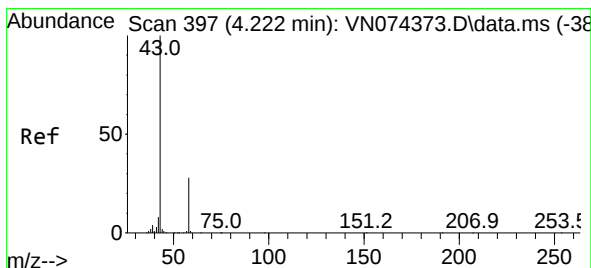
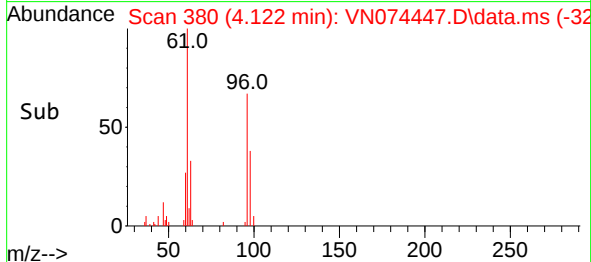
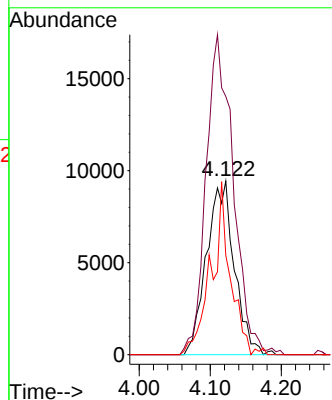
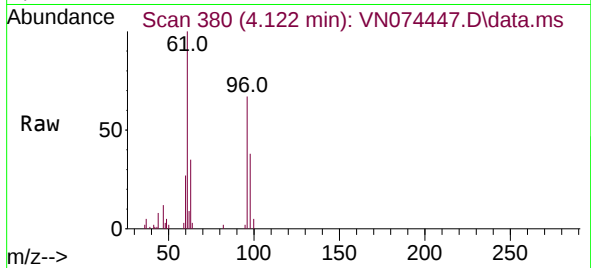




#12
1,1-Dichloroethene
Concen: 10.821 ug/l
RT: 4.122 min Scan# 380
Delta R.T. 0.018 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

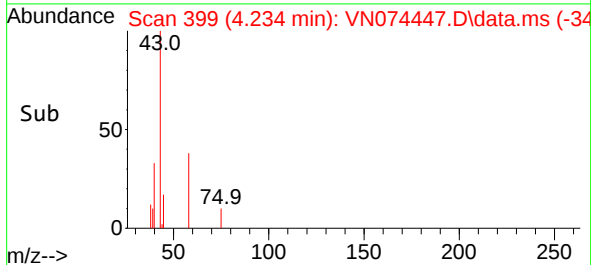
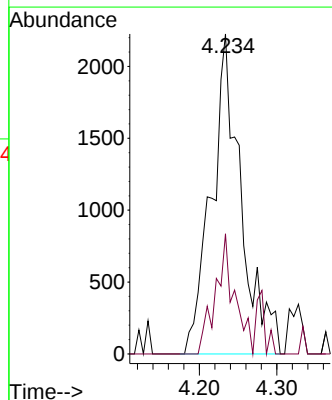
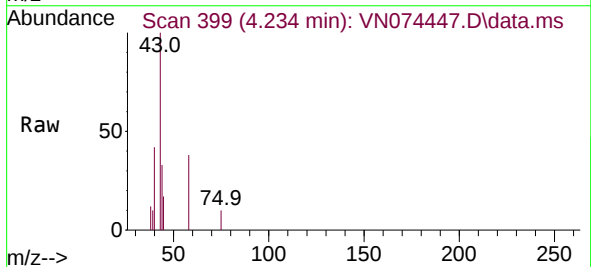
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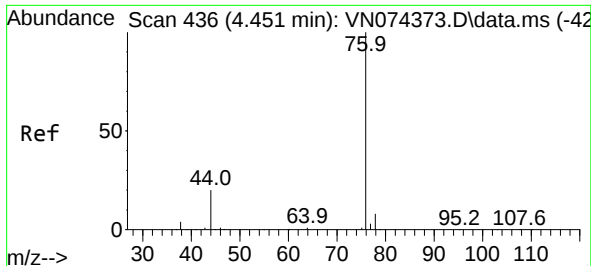
Tgt Ion: 96 Resp: 25612
Ion Ratio Lower Upper
96 100
61 148.8 134.7 202.1
98 57.3 50.2 75.4



#16
Acetone
Concen: 3.327 ug/l
RT: 4.234 min Scan# 399
Delta R.T. 0.012 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

Tgt Ion: 43 Resp: 5900
Ion Ratio Lower Upper
43 100
58 37.6 22.7 34.1#





#17

Carbon Disulfide

Concen: 0.381 ug/l

RT: 4.445 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN074447.D

Acq: 13 Sep 2022 20:58

Instrument :

MSVOA_N

ClientSampleId :

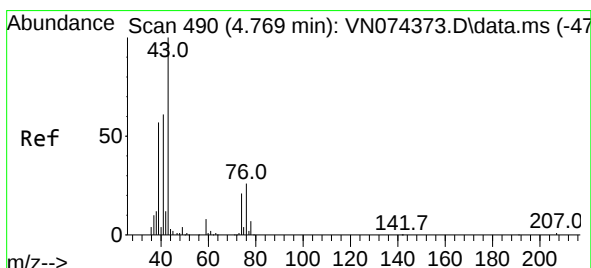
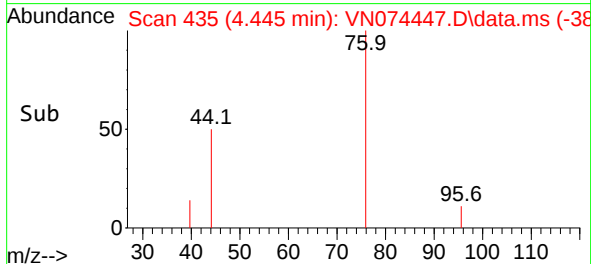
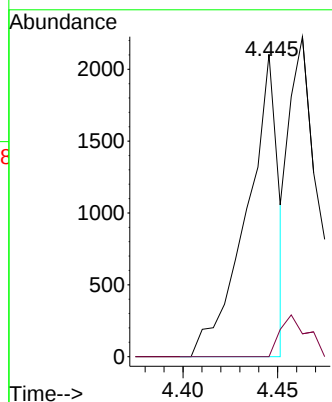
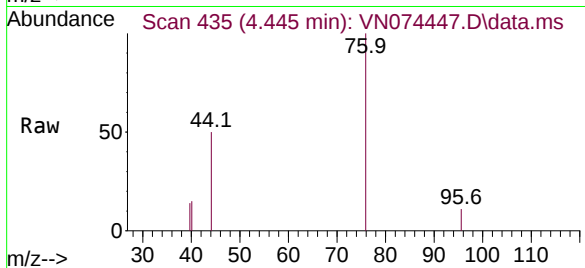
BR-01-180-200-090122-H

Tgt Ion: 76 Resp: 2451

Ion Ratio Lower Upper

76 100

78 0.0 6.5 9.7#



#18

Methyl Acetate

Concen: 0.211 ug/l

RT: 4.757 min Scan# 488

Delta R.T. -0.012 min

Lab File: VN074447.D

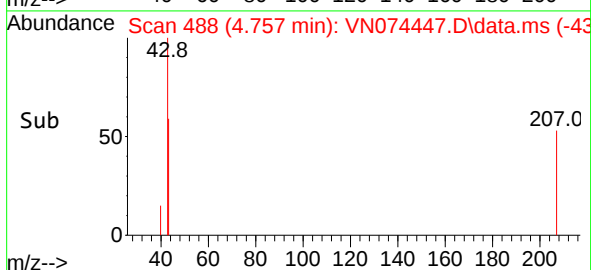
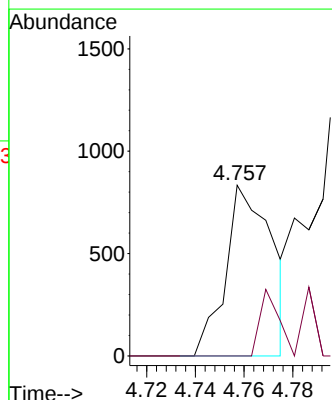
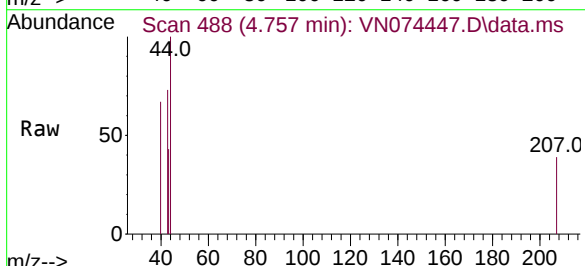
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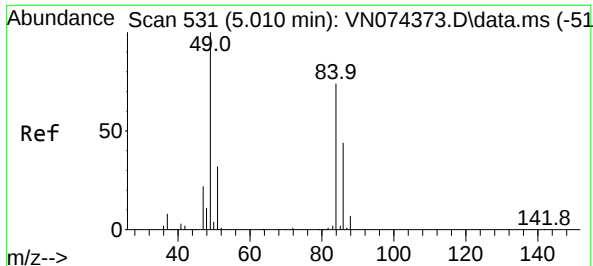
Tgt Ion: 43 Resp: 1102

Ion Ratio Lower Upper

43 100

74 16.0 16.7 25.1#

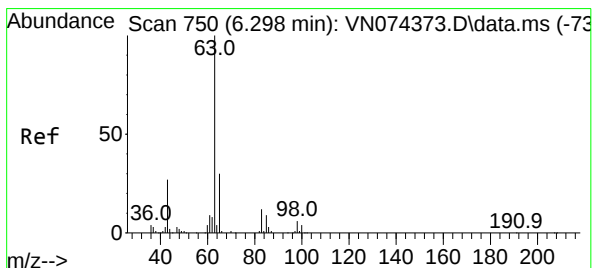
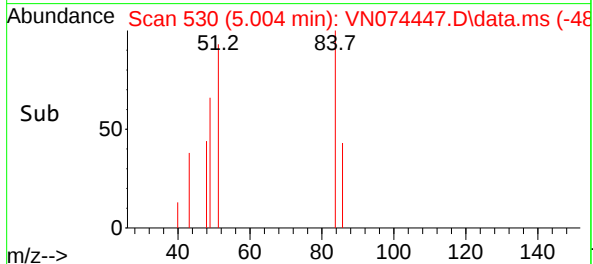
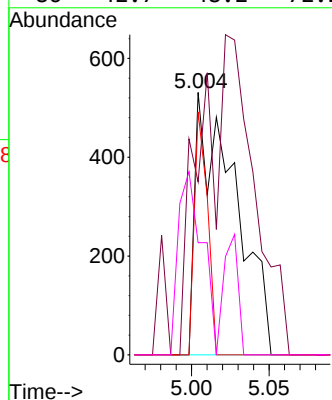
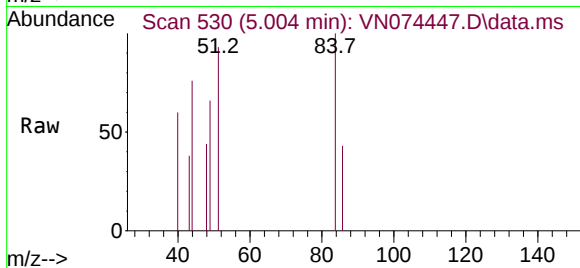




#20
Methylene Chloride
Concen: Below Cal
RT: 5.004 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

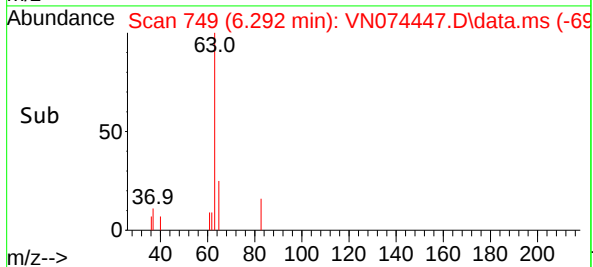
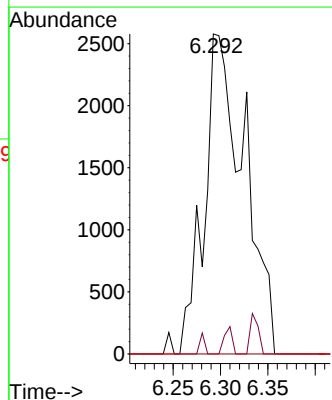
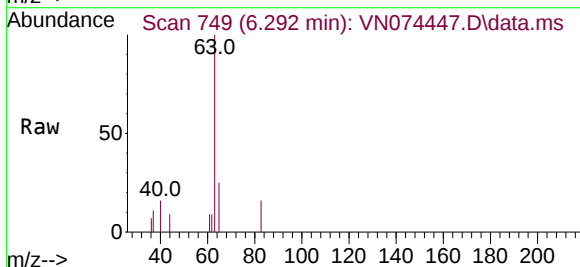
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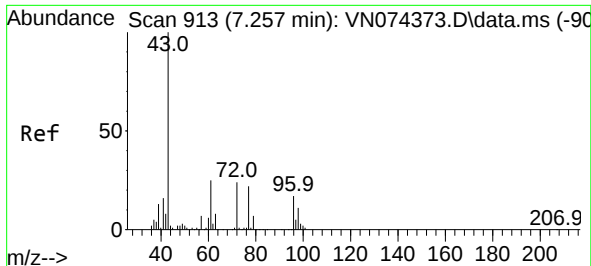
Tgt Ion: 84 Resp: 946
Ion Ratio Lower Upper
84 100
49 65.9 108.2 162.4#
51 92.7 34.3 51.5#
86 42.7 48.2 72.2#



#24
1,1-Dichloroethane
Concen: 1.413 ug/l
RT: 6.292 min Scan# 749
Delta R.T. -0.006 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

Tgt Ion: 63 Resp: 7592
Ion Ratio Lower Upper
63 100
98 0.0 2.9 8.6#
100 0.0 2.0 5.8#

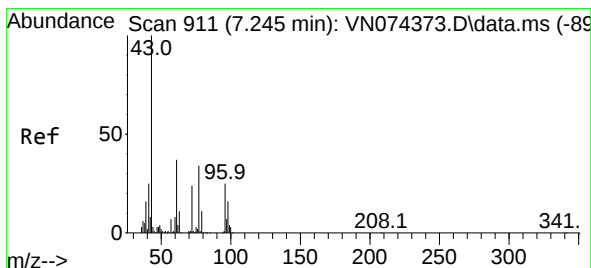
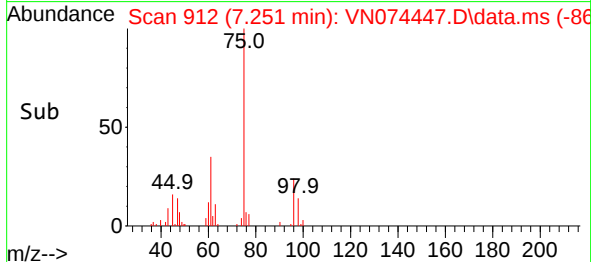
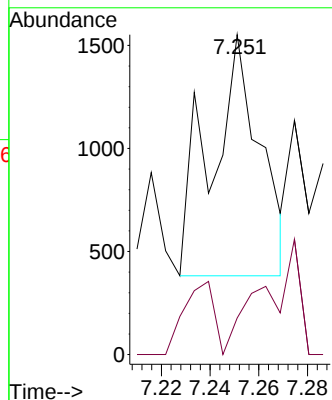
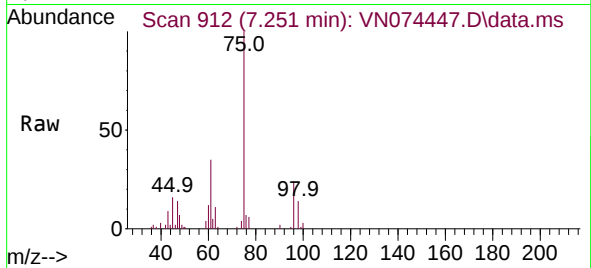




#25
2-Butanone
Concen: 0.549 ug/l
RT: 7.251 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

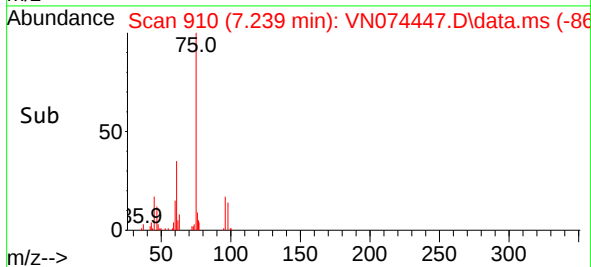
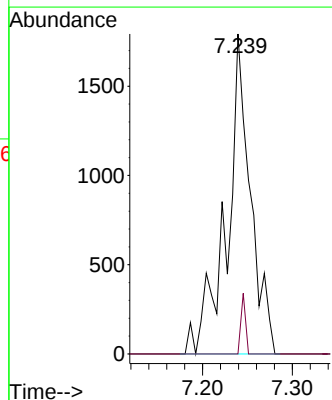
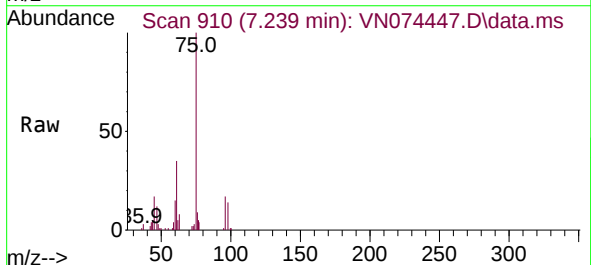
Instrument :
MSVOA_N
ClientSampleId :
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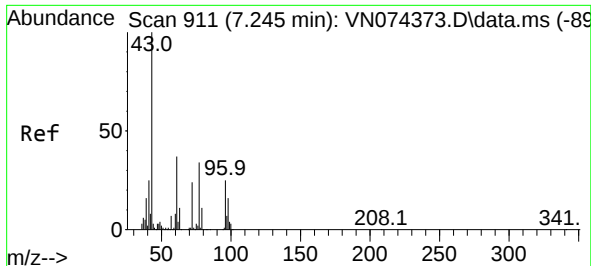
Tgt Ion: 43 Resp: 1635
Ion Ratio Lower Upper
43 100
72 0.0 18.9 28.3#



#26
2,2-Dichloropropane
Concen: 0.678 ug/l
RT: 7.239 min Scan# 910
Delta R.T. -0.006 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

Tgt Ion: 77 Resp: 3296
Ion Ratio Lower Upper
77 100
97 3.6 10.7 32.1#

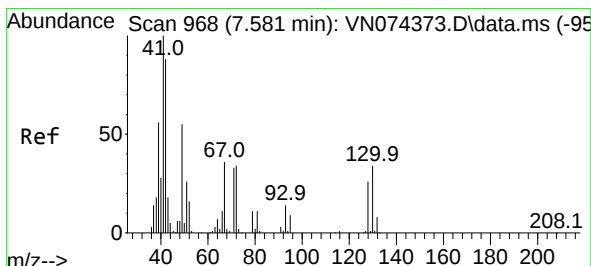
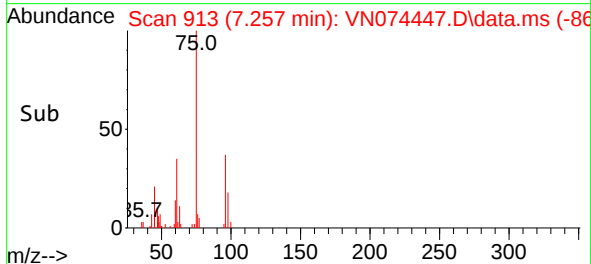
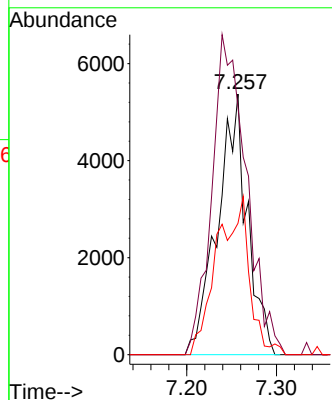
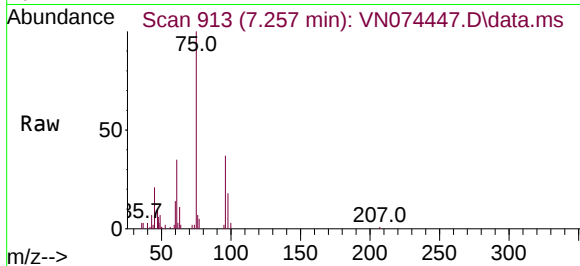




#27
 cis-1,2-Dichloroethene
 Concen: 3.798 ug/l
 RT: 7.257 min Scan# 911
 Delta R.T. 0.012 min
 Lab File: VN074447.D
 Acq: 13 Sep 2022 20:58

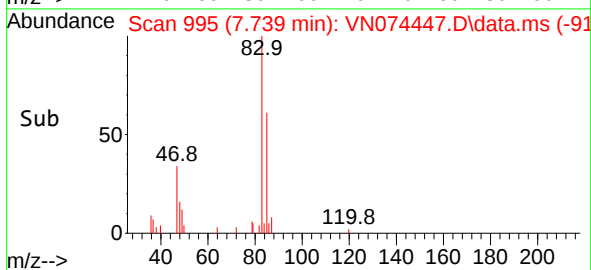
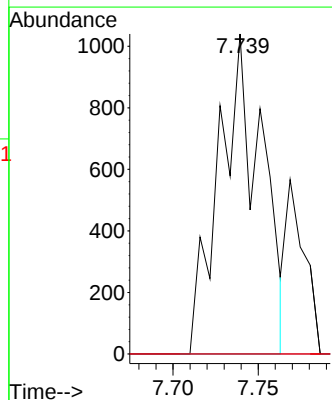
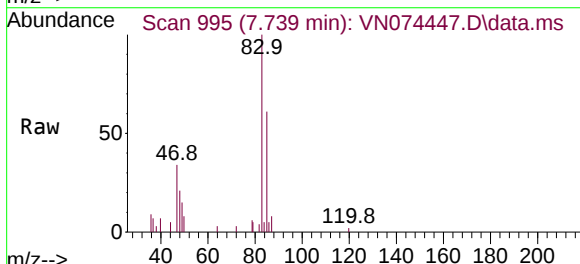
Instrument :
 MSVOA_N
 ClientSampleId :
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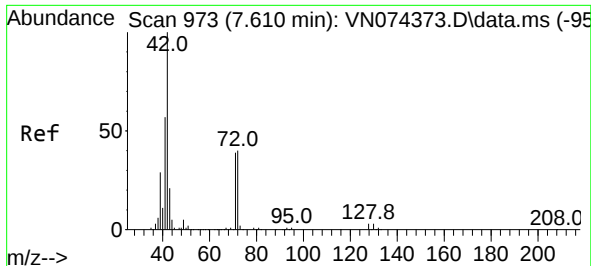
Tgt Ion: 96 Resp: 12410
 Ion Ratio Lower Upper
 96 100
 61 141.7 0.0 306.2
 98 30.8 0.0 129.8



#28
 Bromochloromethane
 Concen: 0.240 ug/l
 RT: 7.739 min Scan# 995
 Delta R.T. 0.158 min
 Lab File: VN074447.D
 Acq: 13 Sep 2022 20:58

Tgt Ion: 49 Resp: 1814
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 2.2
 130 0.0 50.0 75.0#

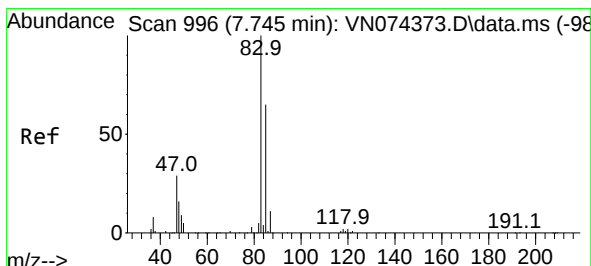
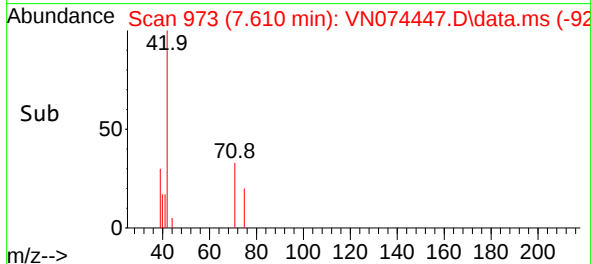
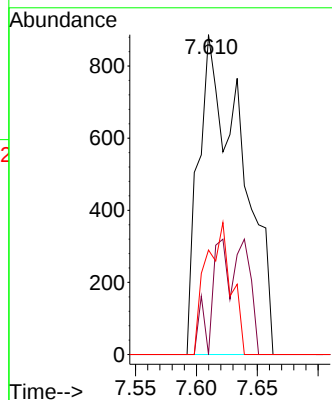
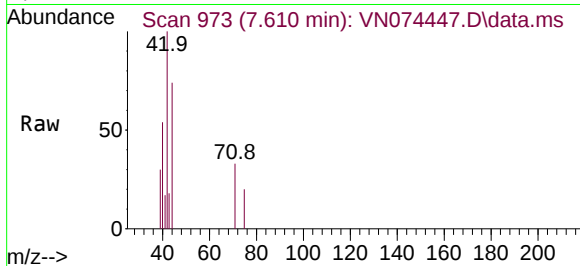




#29
Tetrahydrofuran
Concen: 1.112 ug/l
RT: 7.610 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

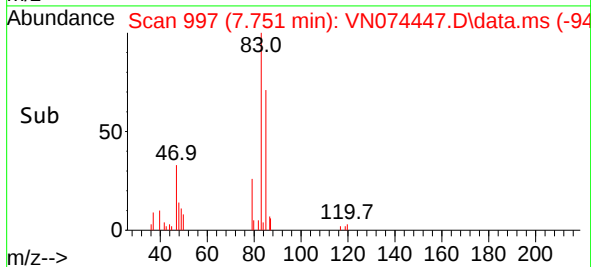
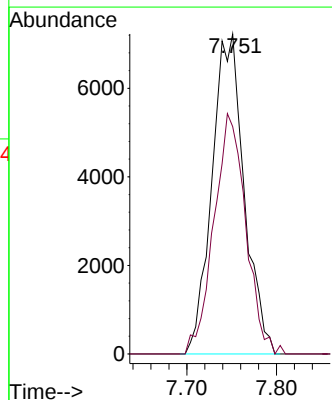
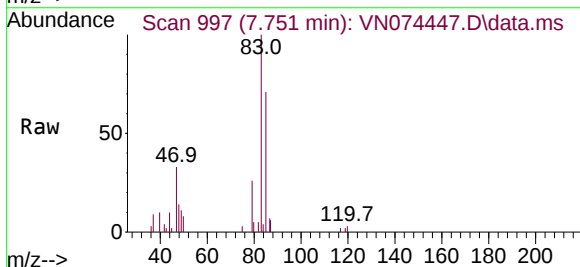
Instrument :
MSVOA_N
ClientSampleId :
BR-01-180-200-090122-H

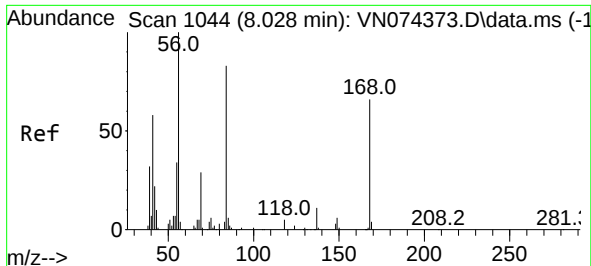
Tgt Ion: 42 Resp: 2189
Ion Ratio Lower Upper
42 100
72 15.1 32.7 49.1#
71 24.1 31.0 46.6#



#30
Chloroform
Concen: 3.356 ug/l
RT: 7.751 min Scan# 997
Delta R.T. 0.006 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

Tgt Ion: 83 Resp: 17991
Ion Ratio Lower Upper
83 100
85 71.0 51.8 77.6

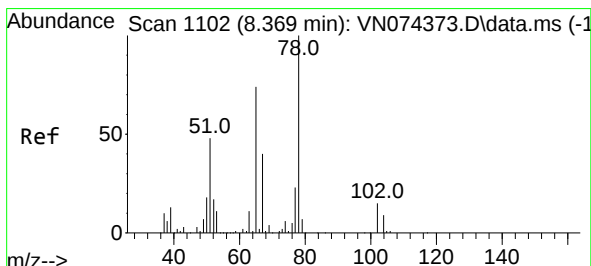
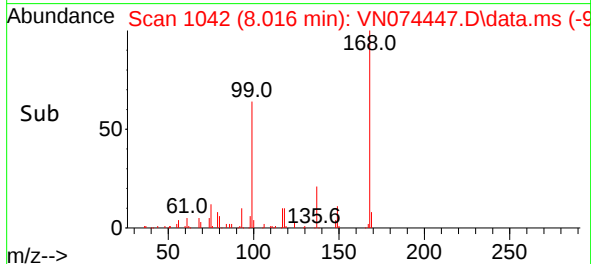
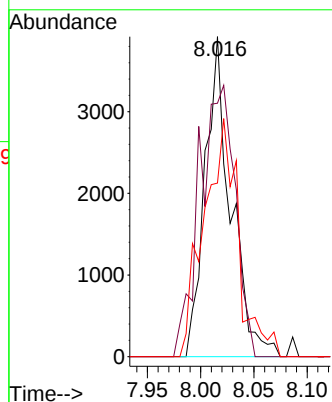
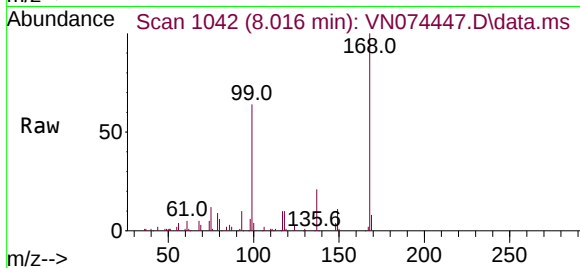




#31
Cyclohexane
Concen: 1.269 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.012 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

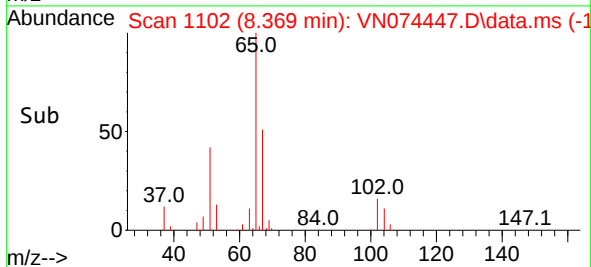
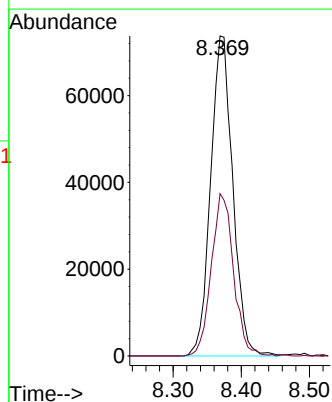
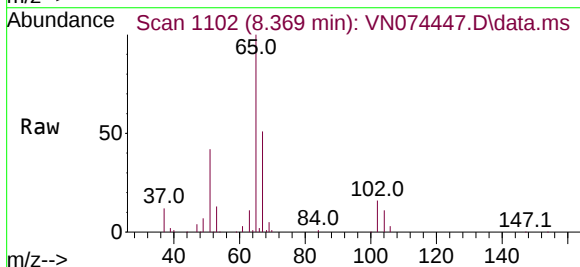
Instrument :
MSVOA_N
ClientSampleId :
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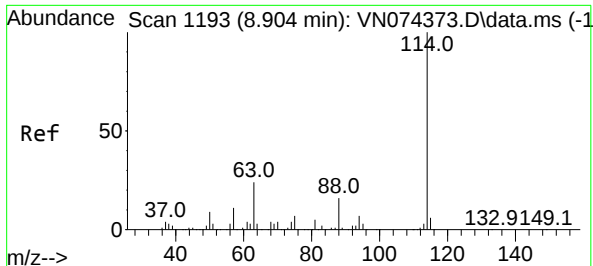
Tgt Ion: 56 Resp: 6630
Ion Ratio Lower Upper
56 100
69 79.2 23.0 34.4#
84 54.2 66.3 99.5#



#33
1,2-Dichloroethane-d4
Concen: 50.786 ug/l
RT: 8.369 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

Tgt Ion: 65 Resp: 166833
Ion Ratio Lower Upper
65 100
67 50.9 0.0 102.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN074447.D

Acq: 13 Sep 2022 20:58

Instrument :

MSVOA_N

ClientSampleId :

BR-01-180-200-090122-H

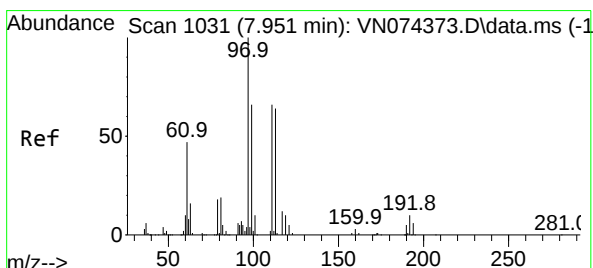
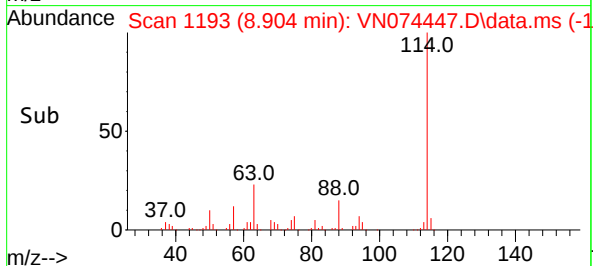
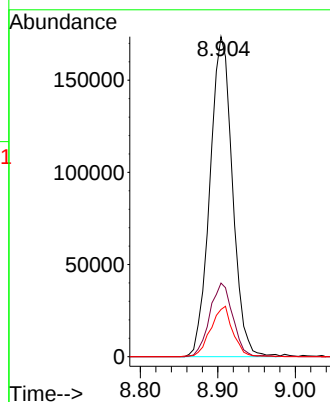
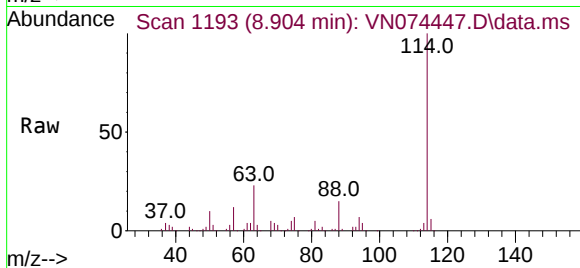
Tgt Ion:114 Resp: 351347

Ion Ratio Lower Upper

114 100

63 23.0 0.0 47.6

88 14.7 0.0 31.4



#35

Dibromofluoromethane

Concen: 54.829 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VN074447.D

Acq: 13 Sep 2022 20:58

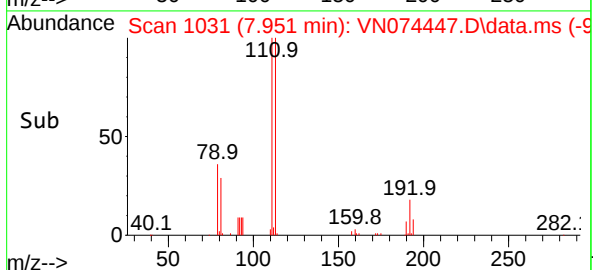
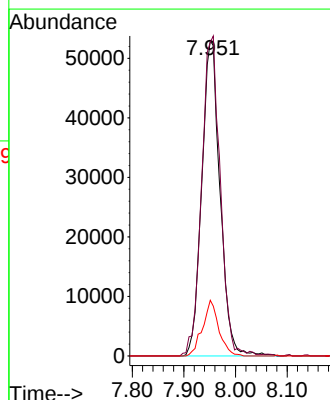
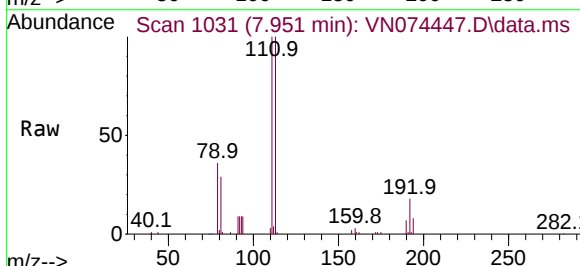
Tgt Ion:113 Resp: 130051

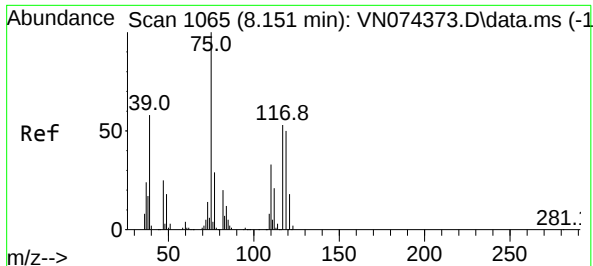
Ion Ratio Lower Upper

113 100

111 102.5 83.0 124.4

192 15.7 13.7 20.5





#36

1,1-Dichloropropene

Concen: 5.464 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.135 min

Lab File: VN074447.D

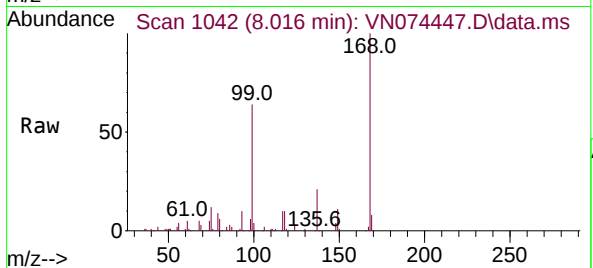
Acq: 13 Sep 2022 20:58

Instrument :

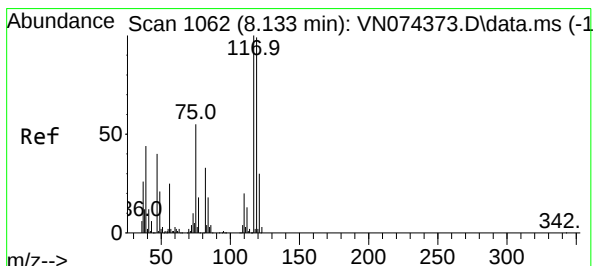
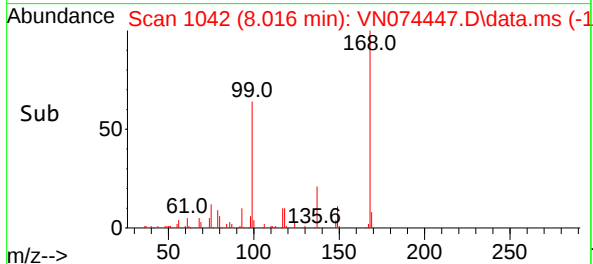
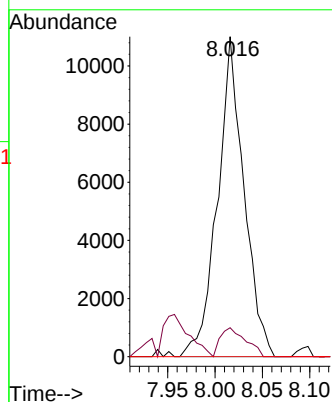
MSVOA_N

ClientSampleId :

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Tgt Ion:	75	Resp:	21350
Ion	Ratio	Lower	Upper
75	100		
110	8.7	16.4	49.1#
77	0.0	25.4	38.2#



#38

Carbon Tetrachloride

Concen: 5.874 ug/l

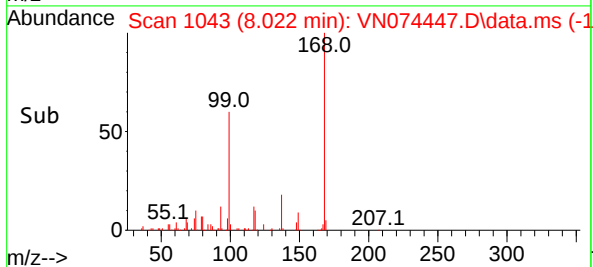
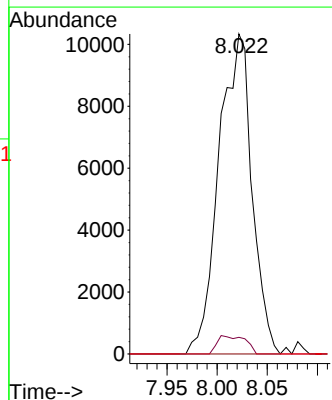
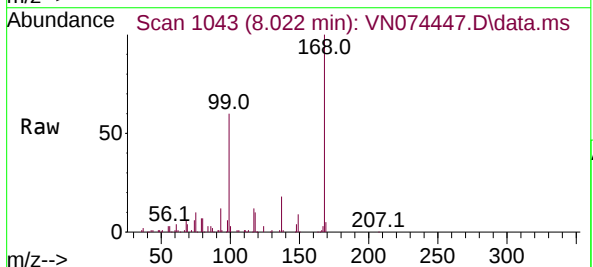
RT: 8.022 min Scan# 1043

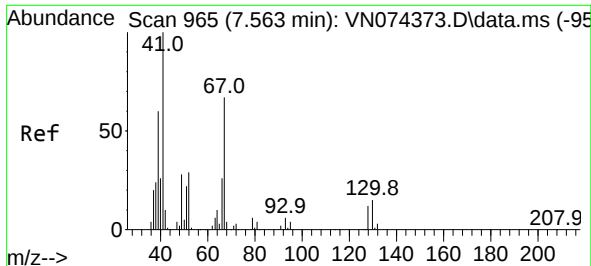
Delta R.T. -0.112 min

Lab File: VN074447.D

Acq: 13 Sep 2022 20:58

Tgt Ion:	117	Resp:	23698
Ion	Ratio	Lower	Upper
117	100		
119	5.2	78.8	118.2#
121	0.0	24.1	36.1#

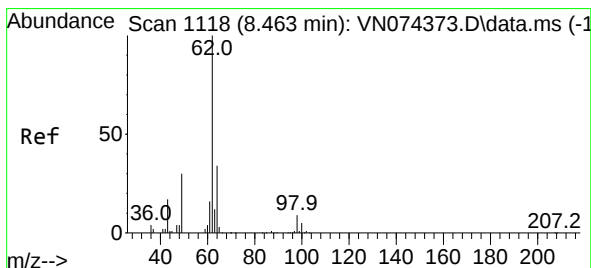
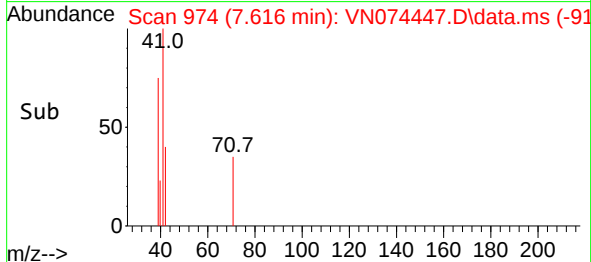
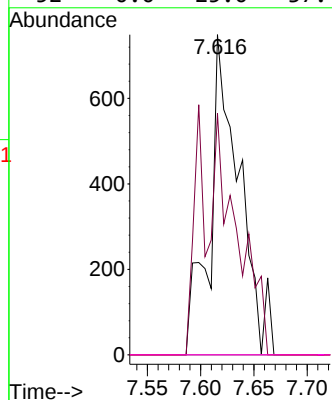
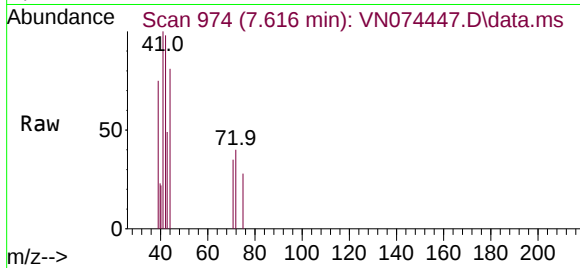




#41
Methacrylonitrile
Concen: 0.514 ug/l
RT: 7.616 min Scan# 91
Delta R.T. 0.053 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

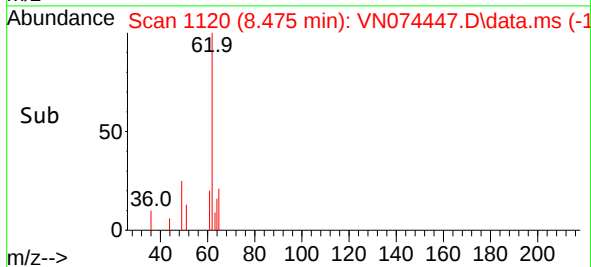
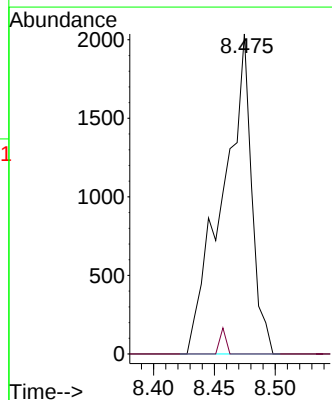
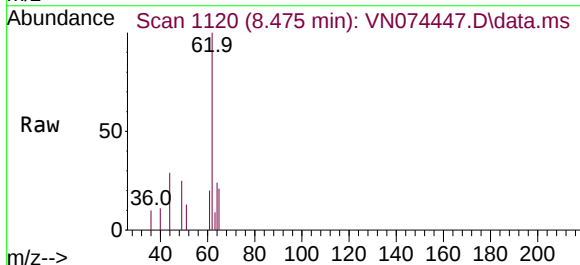
Instrument :
MSVOA_N
ClientSampleId :
BR-01-180-200-090122-H

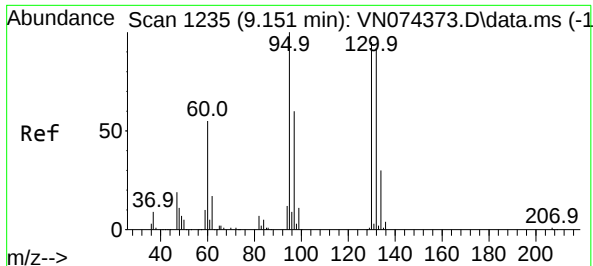
Tgt Ion:	41	Resp:	1446
Ion	Ratio	Lower	Upper
41	100		
39	57.3	39.2	58.8
67	0.0	53.6	80.4#
52	0.0	25.0	37.4#



#42
1,2-Dichloroethane
Concen: 0.737 ug/l
RT: 8.475 min Scan# 1120
Delta R.T. 0.012 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

Tgt Ion:	62	Resp:	3369
Ion	Ratio	Lower	Upper
62	100		
98	1.8	0.0	17.6

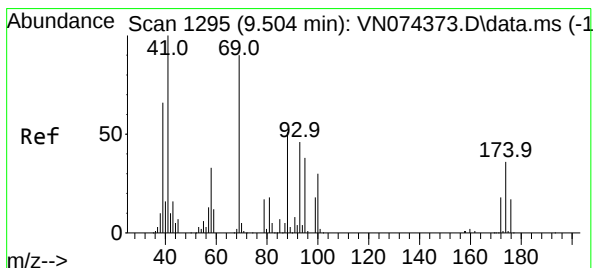
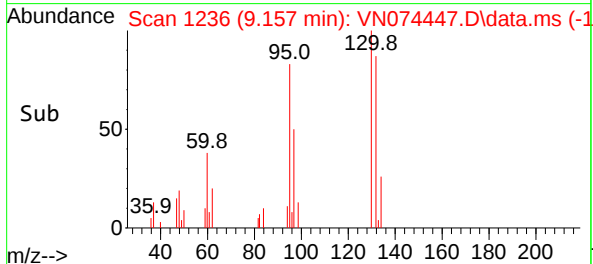
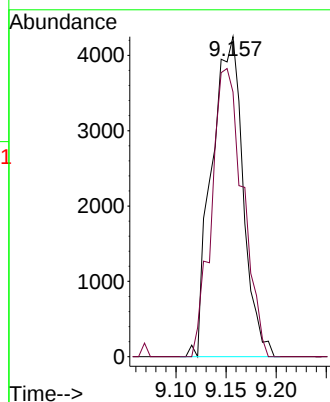
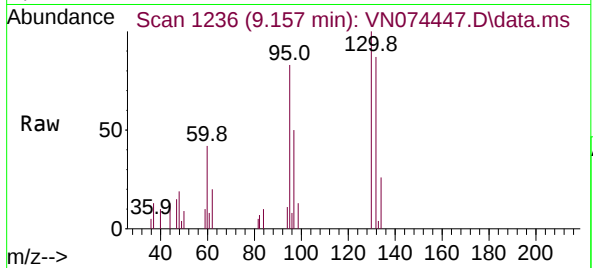




#44
Trichloroethene
Concen: 3.451 ug/l
RT: 9.157 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

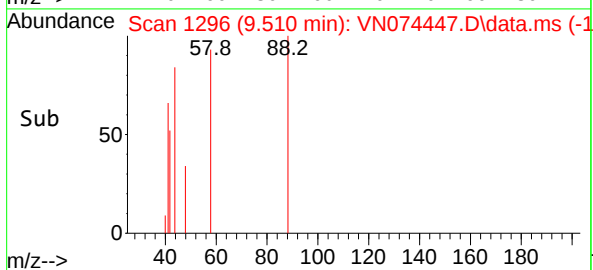
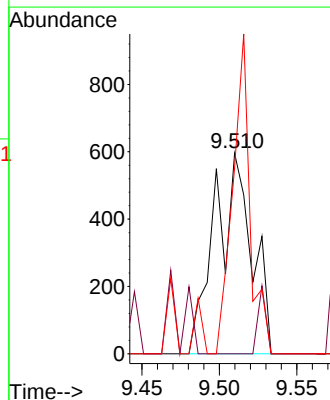
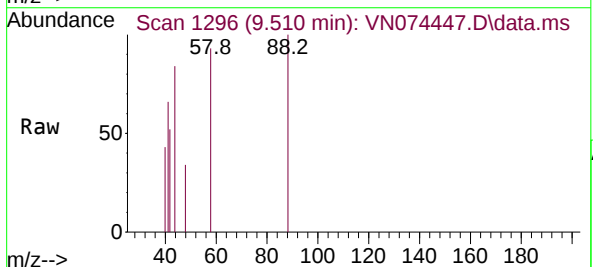
Instrument :
MSVOA_N
ClientSampleId :
BR-01-180-200-090122-H

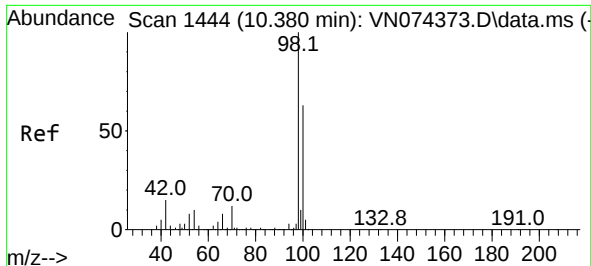
Tgt Ion:130 Resp: 9256
Ion Ratio Lower Upper
130 100
95 82.7 0.0 210.0



#49
1,4-Dioxane
Concen: 11.418 ug/l
RT: 9.510 min Scan# 1296
Delta R.T. 0.006 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

Tgt Ion: 88 Resp: 983
Ion Ratio Lower Upper
88 100
43 7.2 26.9 40.3#
58 75.3 52.7 79.1

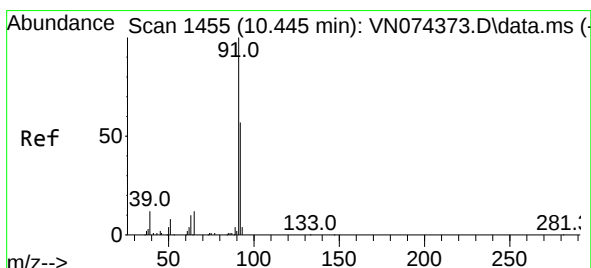
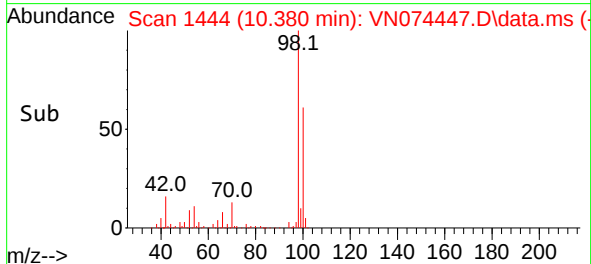
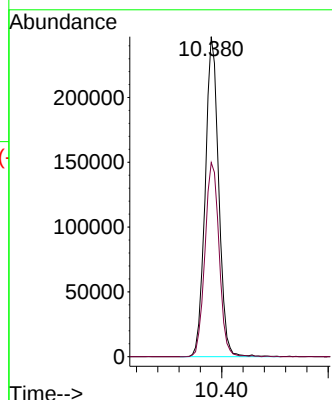
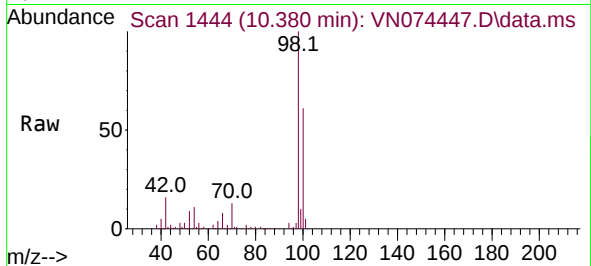




#50
Toluene-d8
Concen: 46.816 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

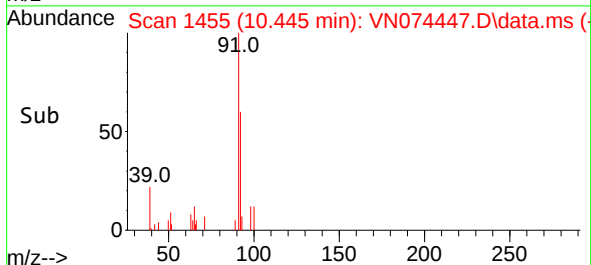
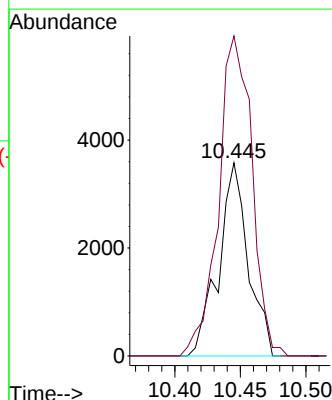
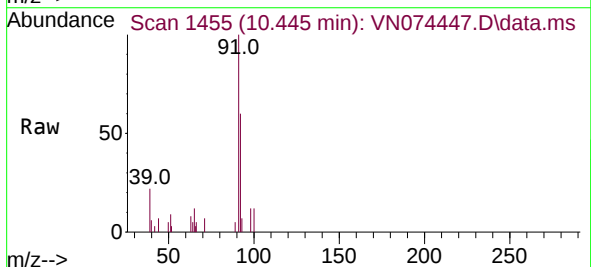
Instrument :
MSVOA_N
ClientSampleId :
BR-01-180-200-090122-H

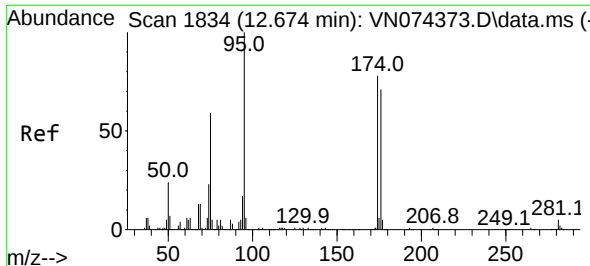
Tgt Ion: 98 Resp: 432684
Ion Ratio Lower Upper
98 100
100 63.7 50.6 76.0



#52
Toluene
Concen: 0.759 ug/l
RT: 10.445 min Scan# 1455
Delta R.T. -0.000 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

Tgt Ion: 92 Resp: 5614
Ion Ratio Lower Upper
92 100
91 186.9 139.8 209.6

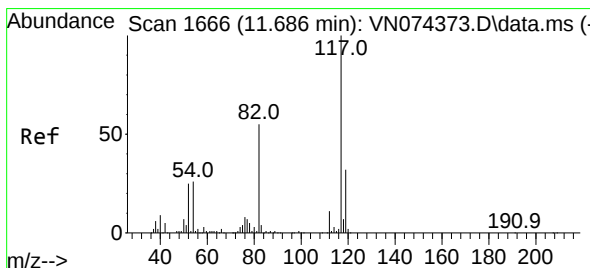
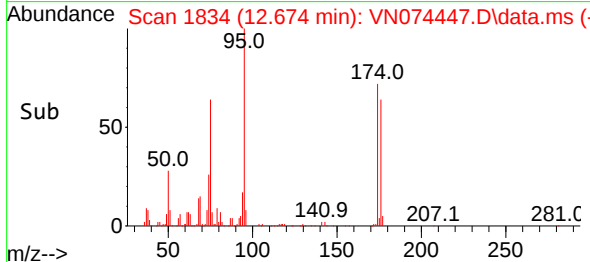
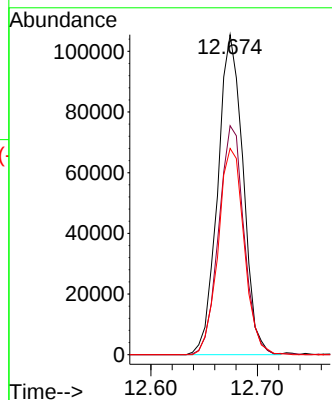
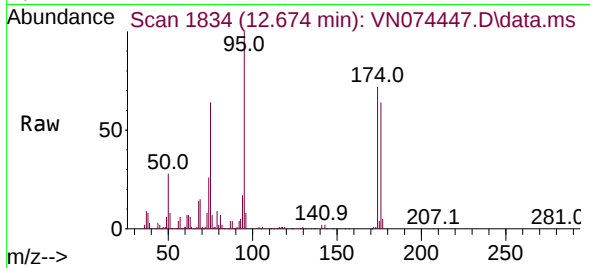




#62
4-Bromofluorobenzene
Concen: 51.886 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.000 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

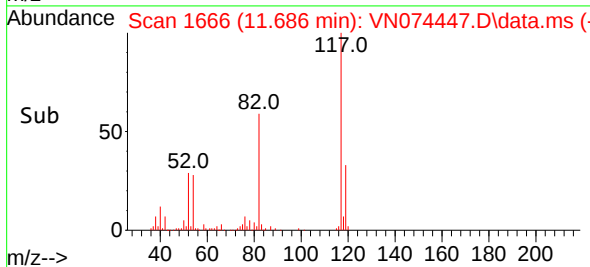
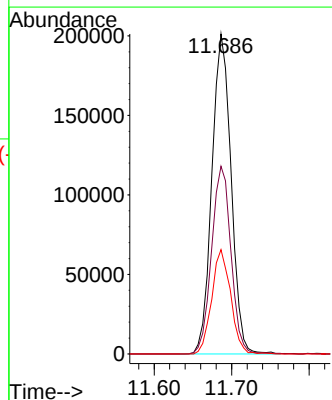
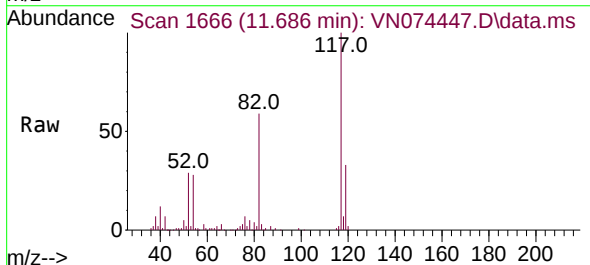
Instrument :
MSVOA_N
ClientSampleId :
BR-01-180-200-090122-H

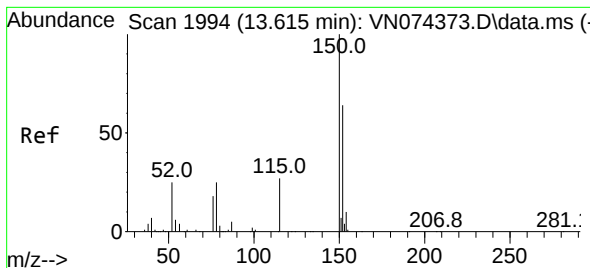
Tgt Ion: 95 Resp: 174104
Ion Ratio Lower Upper
95 100
174 71.5 0.0 150.6
176 66.0 0.0 143.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1666
Delta R.T. -0.000 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

Tgt Ion: 117 Resp: 347014
Ion Ratio Lower Upper
117 100
82 58.7 44.3 66.5
119 32.6 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.621 min Scan# 1994

Delta R.T. 0.006 min

Lab File: VN074447.D

Acq: 13 Sep 2022 20:58

Instrument :

MSVOA_N

ClientSampleId :

BR-01-180-200-090122-H

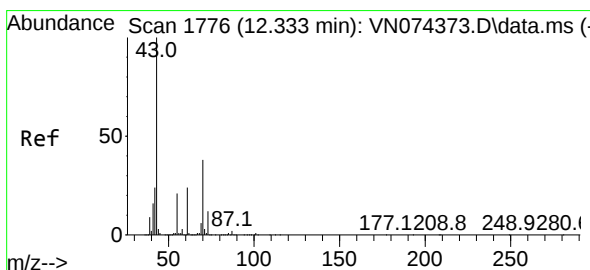
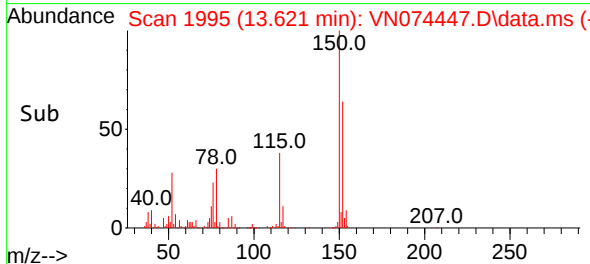
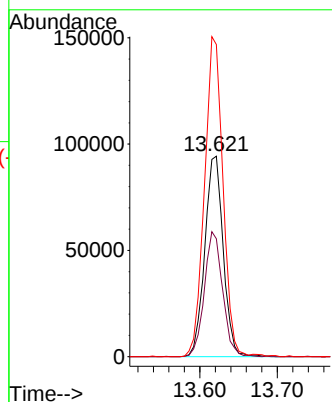
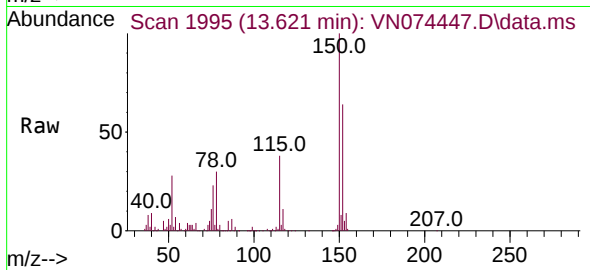
Tgt Ion:152 Resp: 156185

Ion Ratio Lower Upper

152 100

115 61.6 32.0 96.0

150 159.6 0.0 359.6



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.333 min Scan# 1776

Delta R.T. 0.000 min

Lab File: VN074447.D

Acq: 13 Sep 2022 20:58

Tgt Ion: 43 Resp: 236

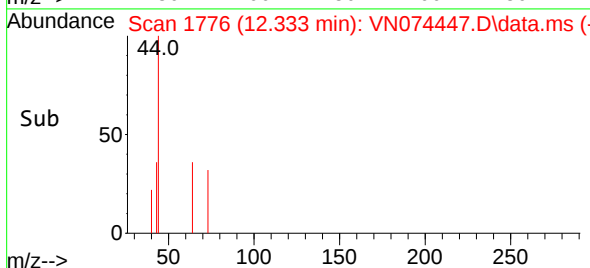
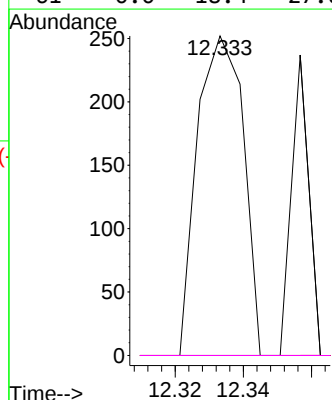
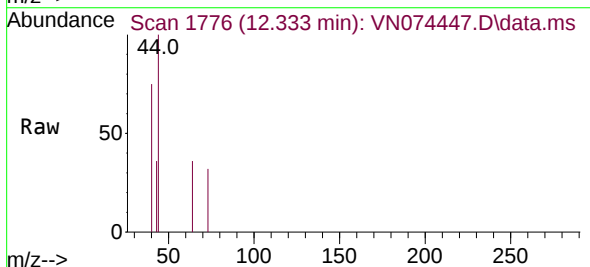
Ion Ratio Lower Upper

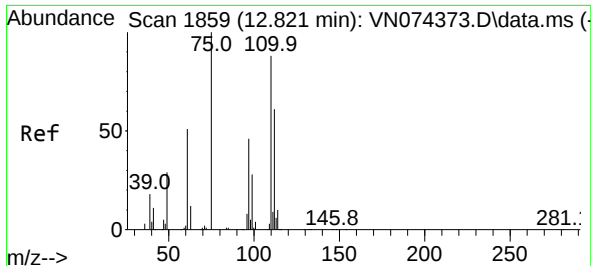
43 100

70 0.0 31.4 47.0#

55 0.0 17.0 25.6#

61 0.0 18.4 27.6#

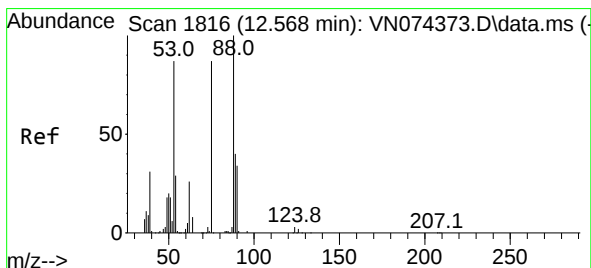
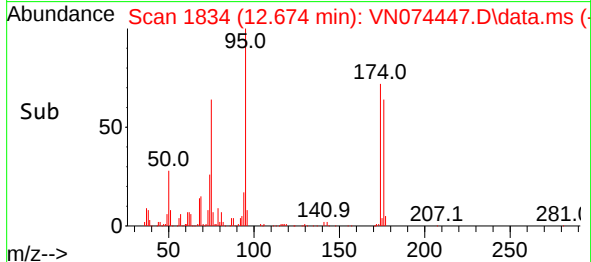
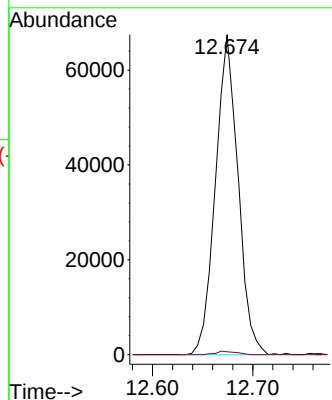
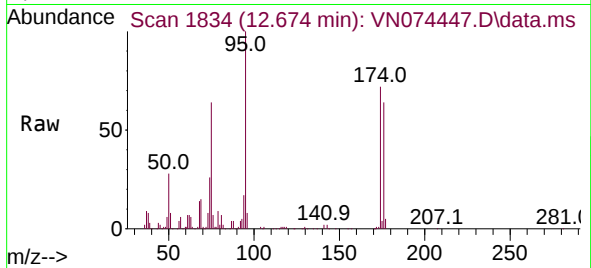




#76
1,2,3-Trichloropropane
Concen: 25.785 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

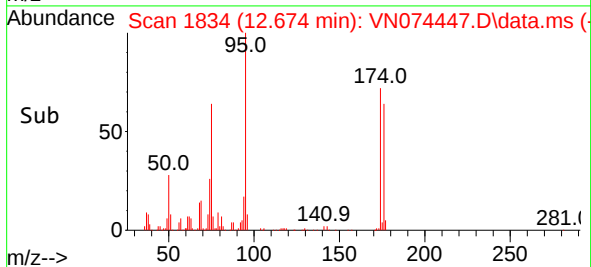
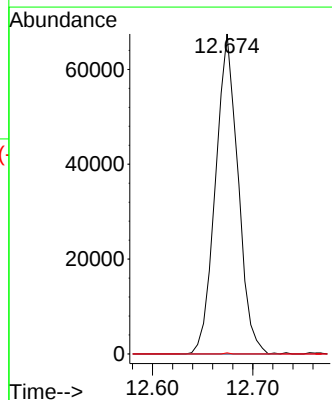
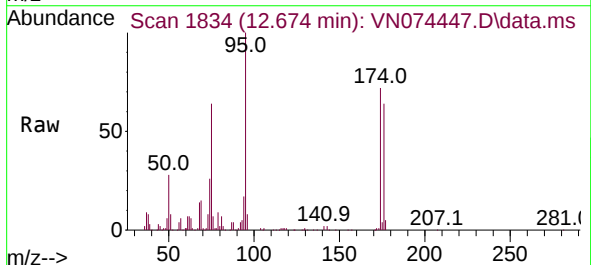
Instrument : MSVOA_N
ClientSampleId : BR-01-180-200-090122-H

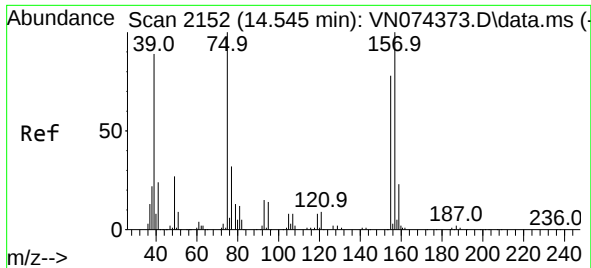
Tgt Ion: 75 Resp: 105280
Ion Ratio Lower Upper
75 100
77 1.0 78.9 236.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.475 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN074447.D
Acq: 13 Sep 2022 20:58

Tgt Ion: 75 Resp: 105280
Ion Ratio Lower Upper
75 100
53 0.0 82.2 123.2#
89 0.1 37.7 56.5#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.645 min Scan# 21

Delta R.T. 0.100 min

Lab File: VN074447.D

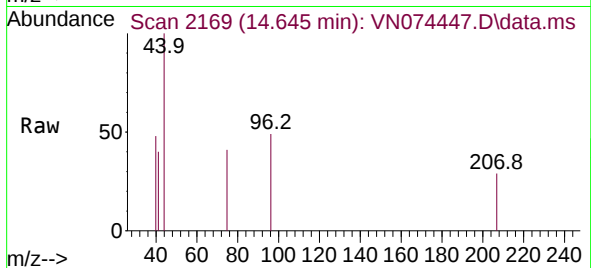
Acq: 13 Sep 2022 20:58

Instrument :

MSVOA_N

ClientSampleId :

BR-01-180-200-090122-H



Tgt Ion: 75 Resp: 105

Ion Ratio Lower Upper

75 100

155 0.0 36.6 109.9#

157 0.0 46.2 138.5#

