

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091322\
 Data File : VN074436.D
 Acq On : 13 Sep 2022 16:27
 Operator : JC\MD
 Sample : N4588-07 50X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 AUD-1665

Quant Time: Sep 13 17:18:24 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)

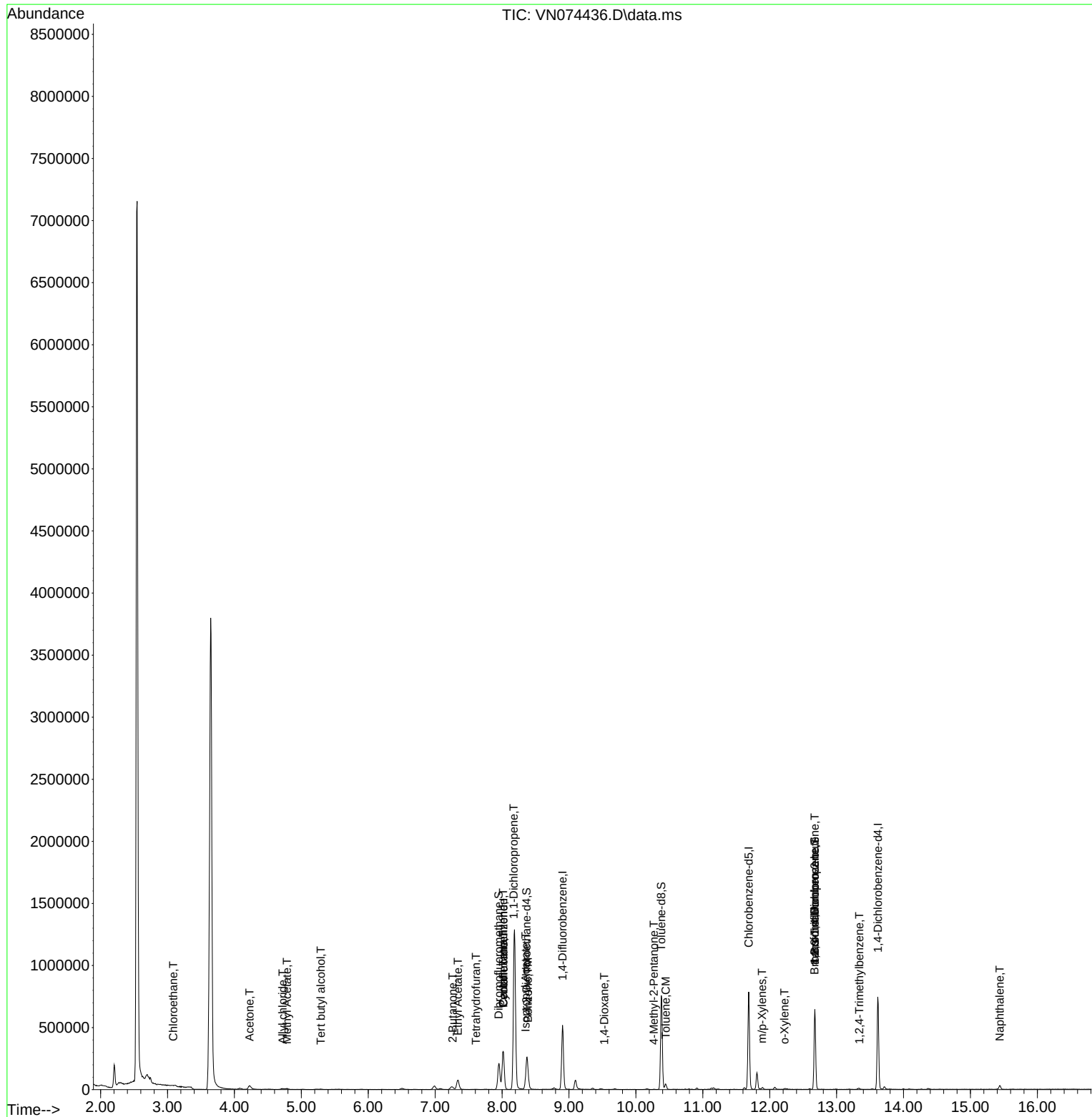
Internal Standards						
1) Pentafluorobenzene	8.022	168	208855	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	396866	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	380499	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	165814	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	179108	49.566	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.140%		
35) Dibromofluoromethane	7.951	113	143200	53.448	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	106.900%		
50) Toluene-d8	10.380	98	483617	46.326	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	92.660%		
62) 4-Bromofluorobenzene	12.674	95	191325	50.479	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	100.960%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.275	50	2248	Below Cal	#	45
6) Chloroethane	3.087	64	23938	4.625	ug/l #	52
11) Tert butyl alcohol	5.293	59	3585	3.793	ug/l #	84
14) Allyl chloride	4.722	41	14149	2.478	ug/l #	40
16) Acetone	4.228	43	53143	27.241	ug/l #	87
18) Methyl Acetate	4.787	43	15227	2.648	ug/l	98
20) Methylene Chloride	5.016	84	577	Below Cal	#	44
25) 2-Butanone	7.263	43	18763	5.730	ug/l #	73
29) Tetrahydrofuran	7.610	42	782	0.361	ug/l #	35
31) Cyclohexane	8.022	56	7476	1.301	ug/l #	50
36) 1,1-Dichloropropene	8.175	75	5623	1.274	ug/l #	42
37) Ethyl Acetate	7.339	43	113144	17.671	ug/l	99
38) Carbon Tetrachloride	8.016	117	24199	5.311	ug/l #	14
40) Benzene	8.386	78	37366	2.765	ug/l	98
43) Isopropyl Acetate	8.351	43	12055	1.151	ug/l #	58
49) 1,4-Dioxane	9.528	88	100	1.028	ug/l #	25
51) 4-Methyl-2-Pentanone	10.269	43	1419	0.207	ug/l #	71
52) Toluene	10.445	92	15771	1.887	ug/l	98
68) m/p-Xylenes	11.886	106	3777	0.580	ug/l	89
69) o-Xylene	12.221	106	1709	0.261	ug/l	88
71) Bromoform	12.669	173	1128	0.420	ug/l #	29
74) N-amyl acetate	12.333	43	781	Below Cal	#	63
76) 1,2,3-Trichloropropane	12.674	75	119134	27.484	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.674	75	119134	61.261	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.339	105	4372	0.334	ug/l #	38
92) 1,2-Dibromo-3-Chloropr...	14.527	75	56	Below Cal	#	8
95) Naphthalene	15.439	128	22832	1.761	ug/l	98

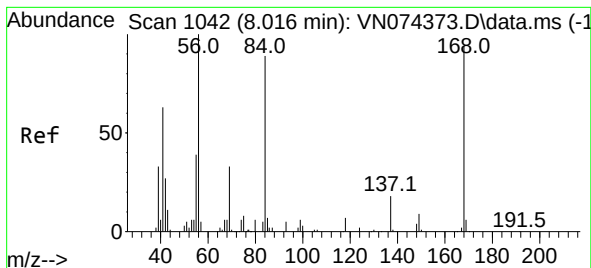
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Sep 10 06:10:29 2022
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.022 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN074436.D

Acq: 13 Sep 2022 16:27

Instrument :

MSVOA_N

ClientSampleId :

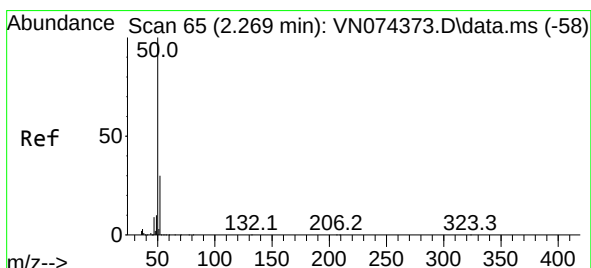
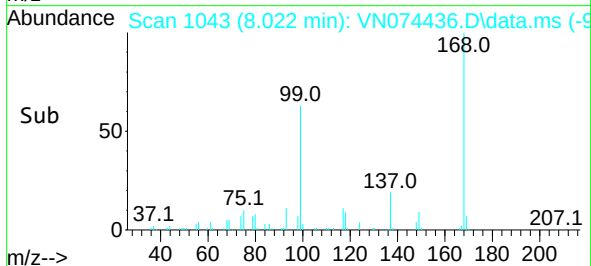
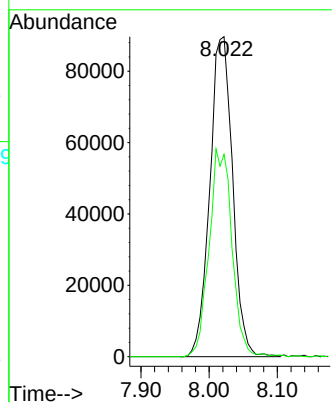
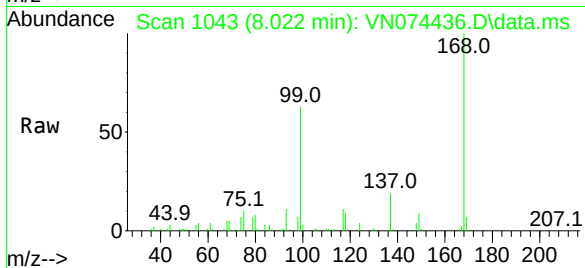
AUD-1665

Tgt Ion:168 Resp: 208855

Ion Ratio Lower Upper

168 100

99 63.2 52.8 79.2



#3

Chloromethane

Concen: Below Cal

RT: 2.275 min Scan# 66

Delta R.T. 0.006 min

Lab File: VN074436.D

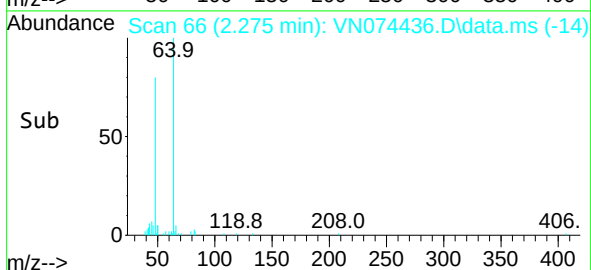
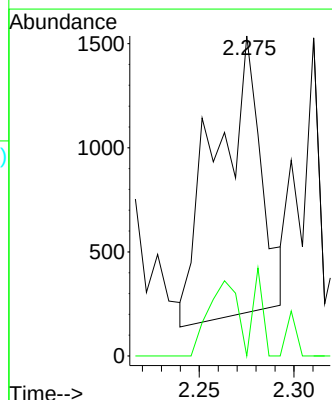
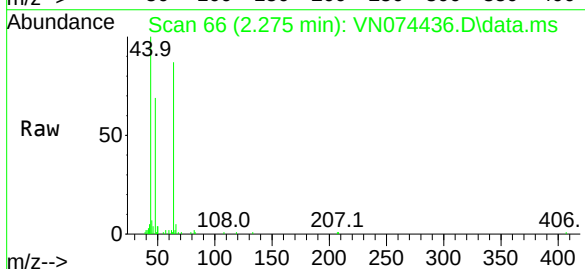
Acq: 13 Sep 2022 16:27

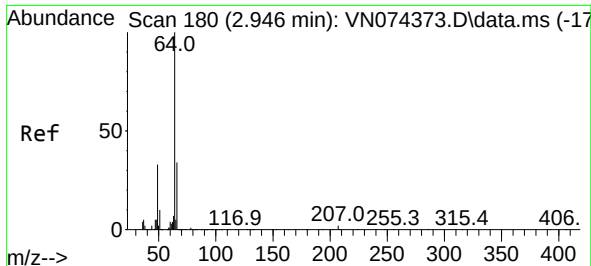
Tgt Ion: 50 Resp: 2248

Ion Ratio Lower Upper

50 100

52 0.0 24.1 36.1#

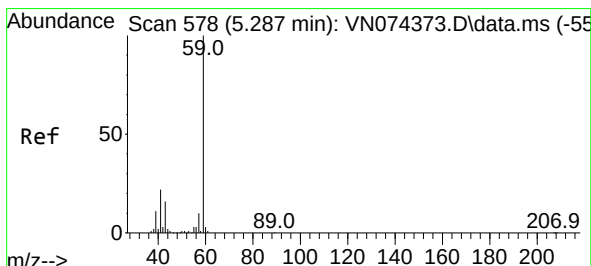
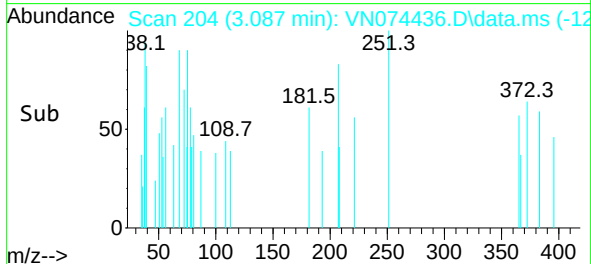
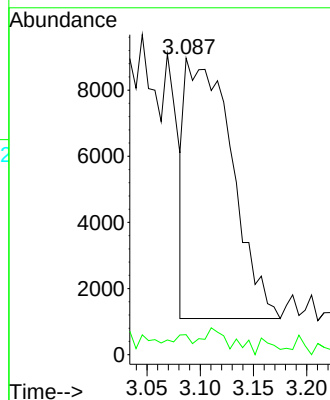
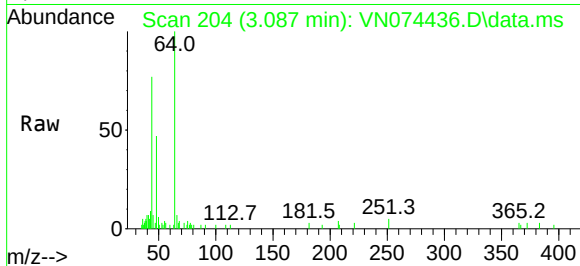




#6
Chloroethane
Concen: 4.625 ug/l
RT: 3.087 min Scan# 204
Delta R.T. 0.141 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

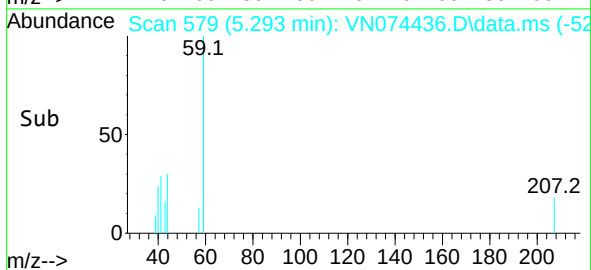
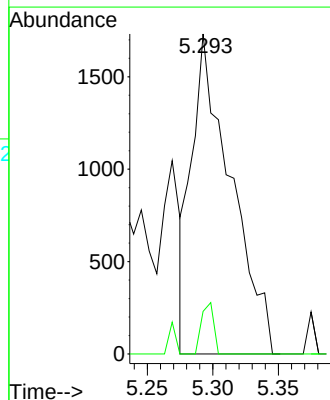
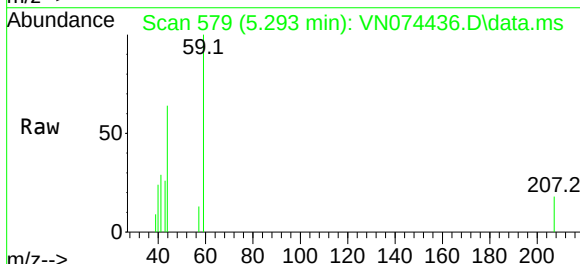
Instrument :
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AUD-1665

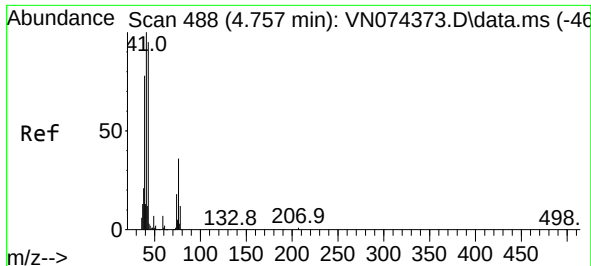
Tgt Ion: 64 Resp: 23938
Ion Ratio Lower Upper
64 100
66 5.7 26.5 39.7#



#11
Tert butyl alcohol
Concen: 3.793 ug/l
RT: 5.293 min Scan# 579
Delta R.T. 0.006 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

Tgt Ion: 59 Resp: 3585
Ion Ratio Lower Upper
59 100
57 5.0 8.8 13.2#

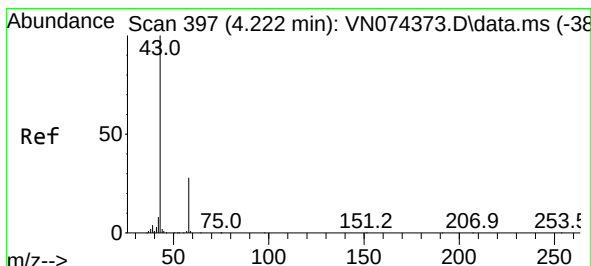
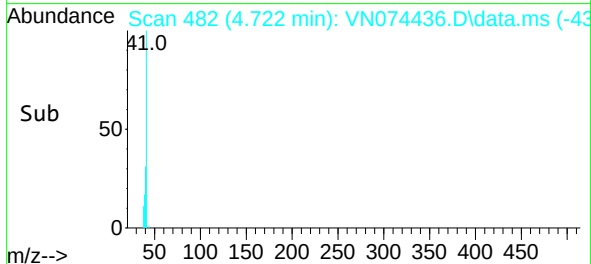
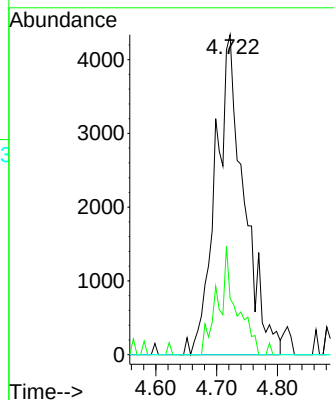
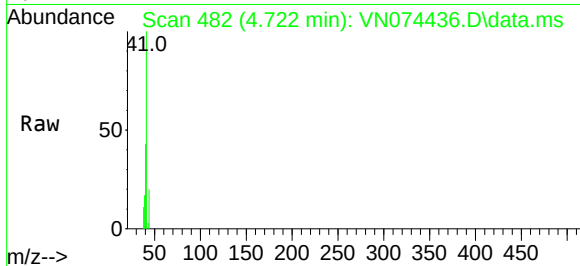




#14
 Allyl chloride
 Concen: 2.478 ug/l
 RT: 4.722 min Scan# 41
 Delta R.T. -0.035 min
 Lab File: VN074436.D
 Acq: 13 Sep 2022 16:27

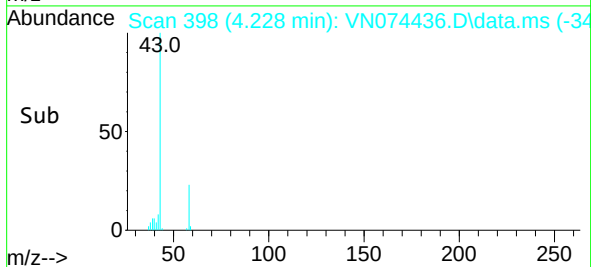
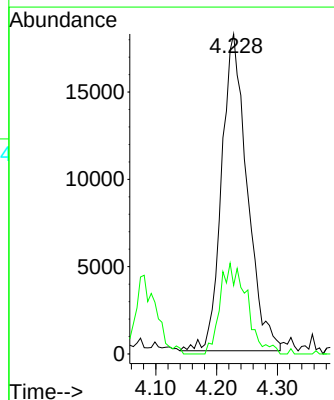
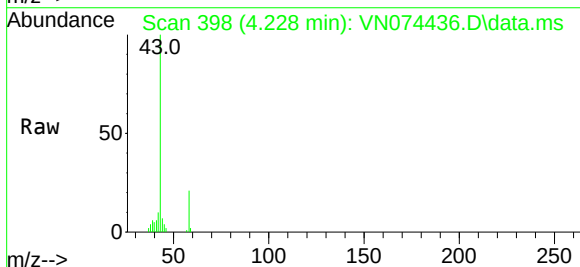
Instrument :
 MSVOA_N
 ClientSampleId :
 AUD-1665

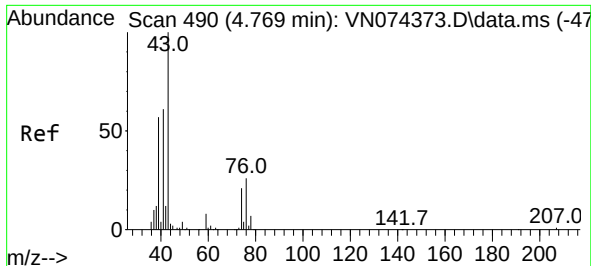
Tgt Ion: 41 Resp: 14149
 Ion Ratio Lower Upper
 41 100
 39 21.6 58.5 87.7#
 76 0.0 24.2 36.4#



#16
 Acetone
 Concen: 27.241 ug/l
 RT: 4.228 min Scan# 398
 Delta R.T. 0.006 min
 Lab File: VN074436.D
 Acq: 13 Sep 2022 16:27

Tgt Ion: 43 Resp: 53143
 Ion Ratio Lower Upper
 43 100
 58 21.7 22.7 34.1#

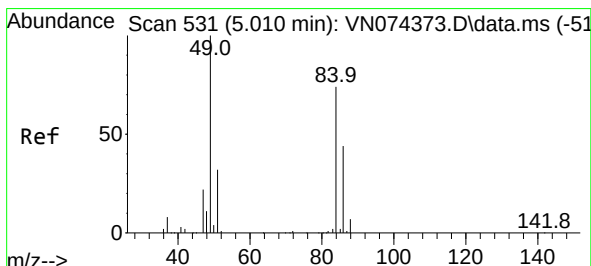
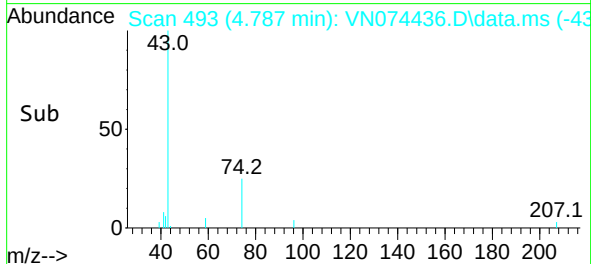
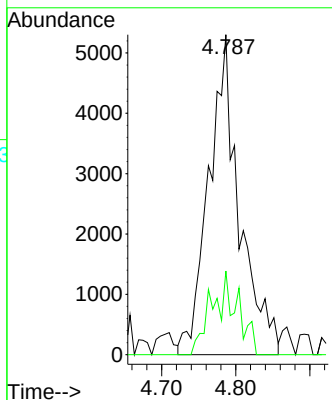
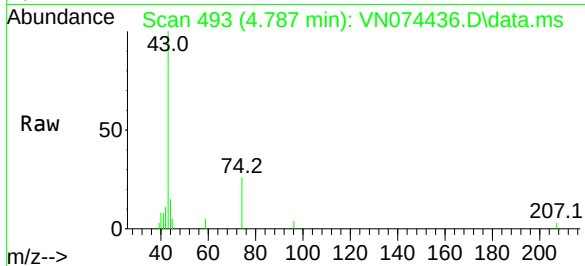




#18
Methyl Acetate
Concen: 2.648 ug/l
RT: 4.787 min Scan# 493
Delta R.T. 0.018 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

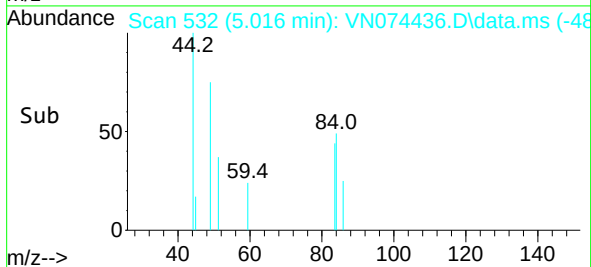
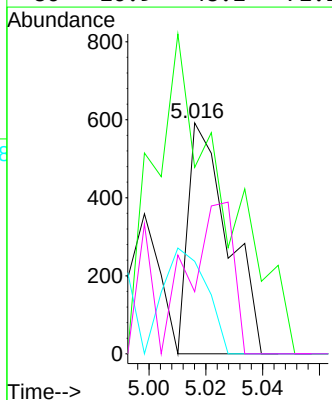
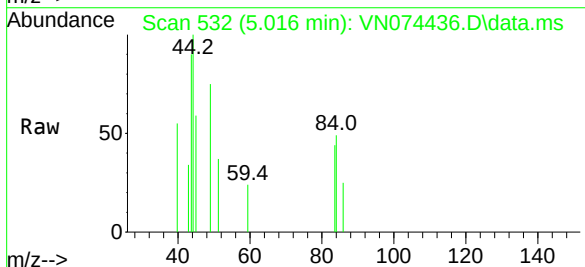
Instrument :
MSVOA_N
ClientSampleId :
AUD-1665

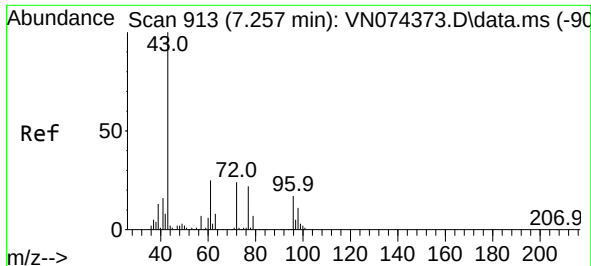
Tgt Ion: 43 Resp: 15227
Ion Ratio Lower Upper
43 100
74 21.8 16.7 25.1



#20
Methylene Chloride
Concen: Below Cal
RT: 5.016 min Scan# 532
Delta R.T. 0.006 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

Tgt Ion: 84 Resp: 577
Ion Ratio Lower Upper
84 100
49 42.4 108.2 162.4#
51 40.0 34.3 51.5
86 26.9 48.2 72.2#

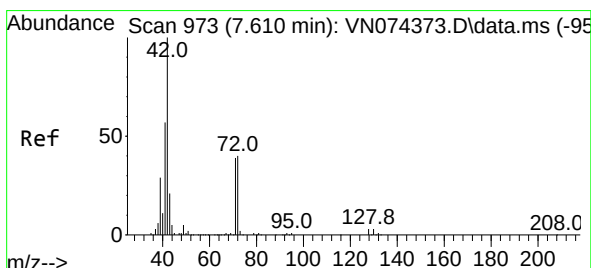
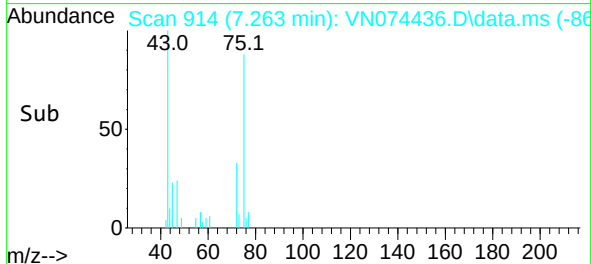
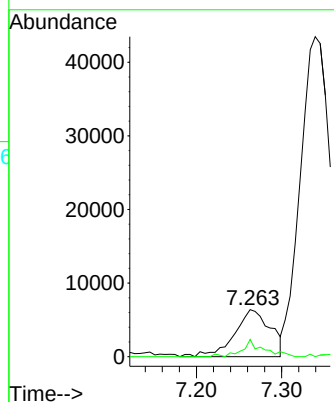
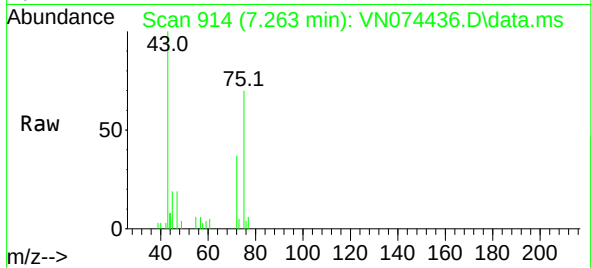




#25
2-Butanone
Concen: 5.730 ug/l
RT: 7.263 min Scan# 913
Delta R.T. 0.006 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

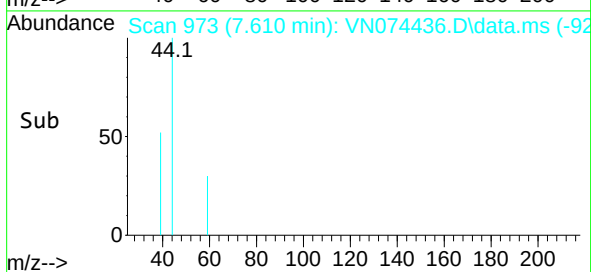
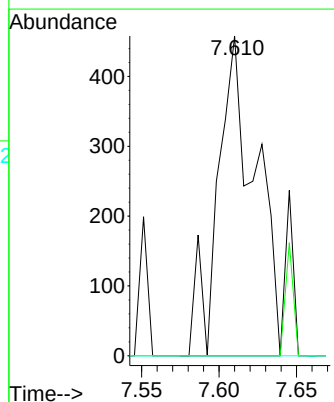
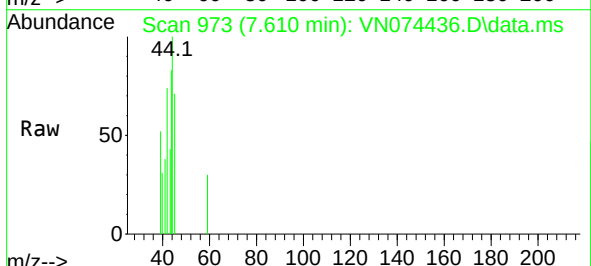
Instrument :
MSVOA_N
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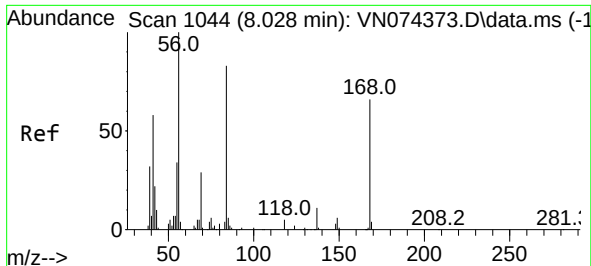
Tgt Ion: 43 Resp: 18763
Ion Ratio Lower Upper
43 100
72 36.7 18.9 28.3#



#29
Tetrahydrofuran
Concen: 0.361 ug/l
RT: 7.610 min Scan# 973
Delta R.T. 0.000 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

Tgt Ion: 42 Resp: 782
Ion Ratio Lower Upper
42 100
72 0.0 32.7 49.1#
71 0.0 31.0 46.6#





#31

Cyclohexane

Concen: 1.301 ug/l

RT: 8.022 min Scan# 1044

Delta R.T. -0.006 min

Lab File: VN074436.D

Acq: 13 Sep 2022 16:27

Instrument :

MSVOA_N

ClientSampleId :

AUD-1665

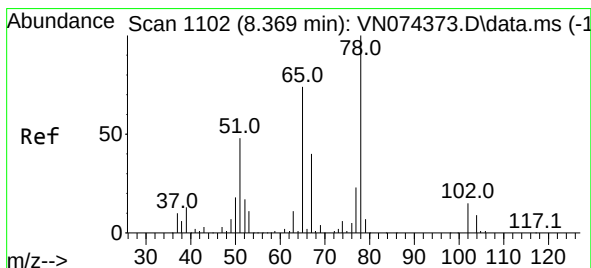
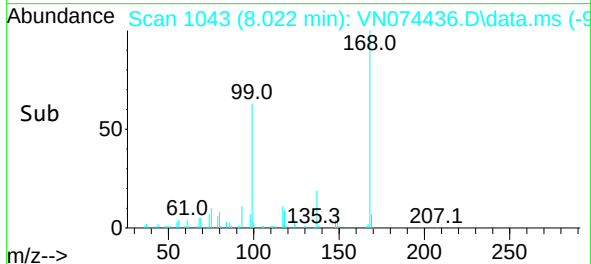
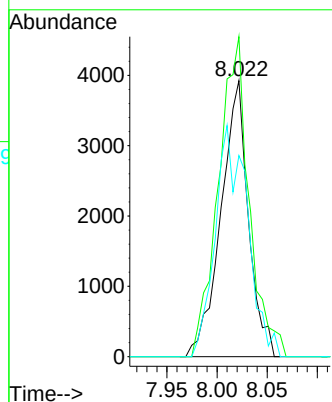
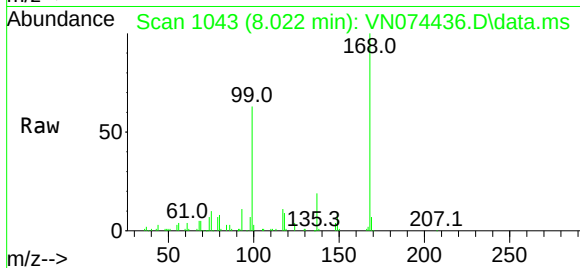
Tgt Ion: 56 Resp: 7476

Ion Ratio Lower Upper

56 100

69 115.9 23.0 34.4#

84 72.9 66.3 99.5



#33

1,2-Dichloroethane-d4

Concen: 49.566 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN074436.D

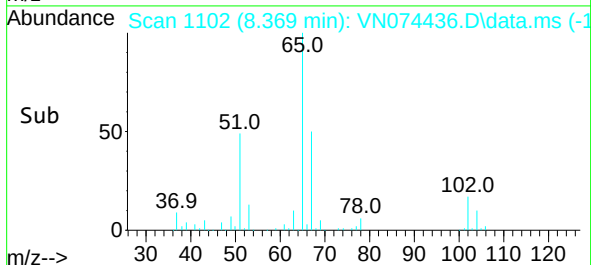
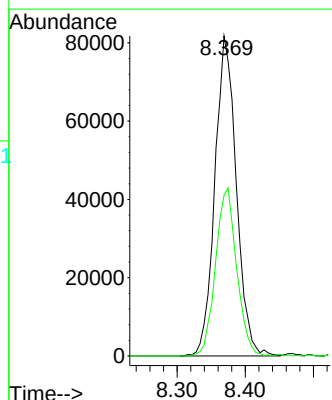
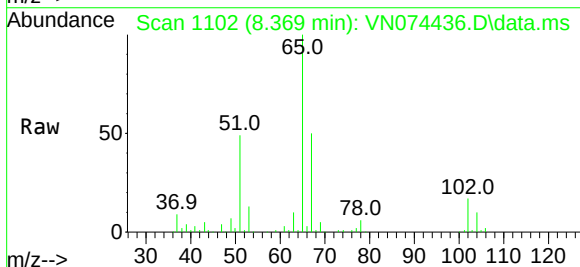
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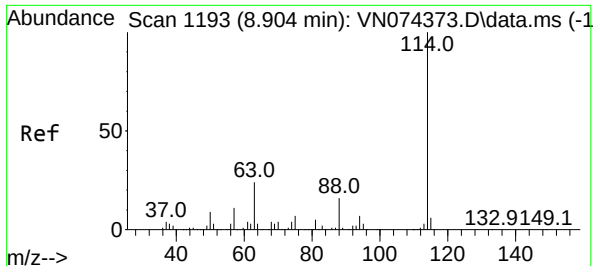
Tgt Ion: 65 Resp: 179108

Ion Ratio Lower Upper

65 100

67 51.7 0.0 102.4

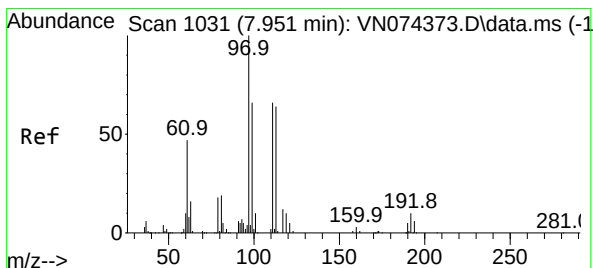
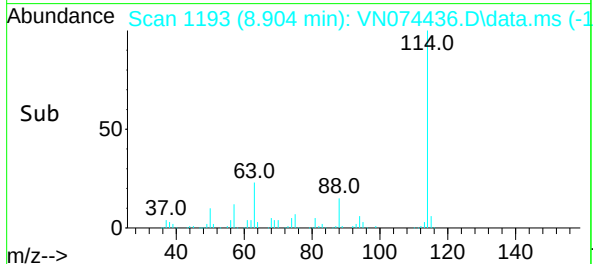
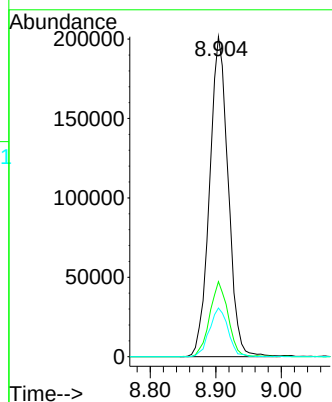
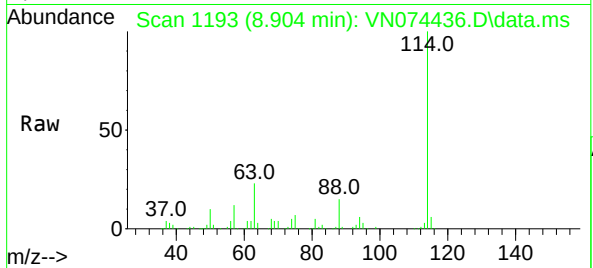




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.904 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

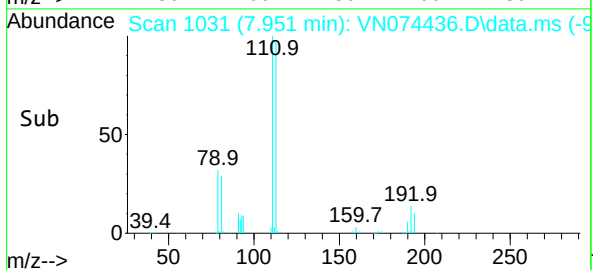
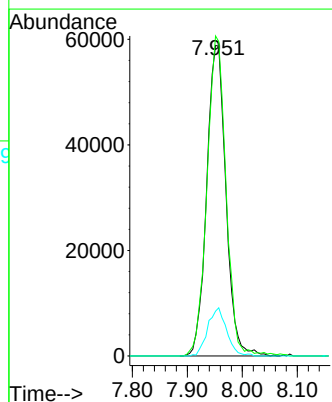
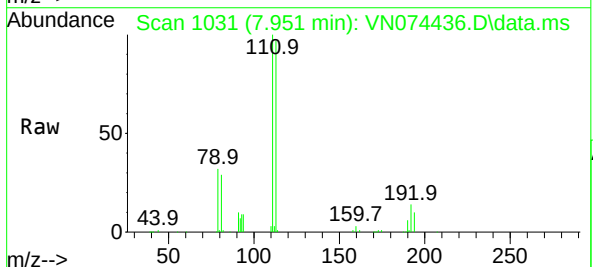
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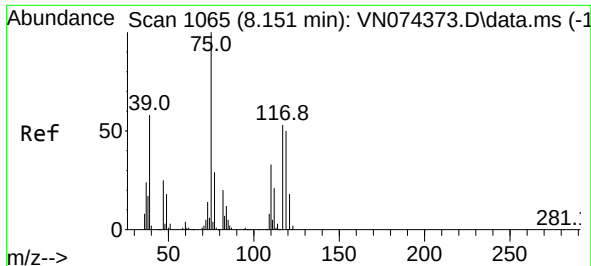
Tgt Ion:114 Resp: 396866
Ion Ratio Lower Upper
114 100
63 23.5 0.0 47.6
88 15.2 0.0 31.4



#35
Dibromofluoromethane
Concen: 53.448 ug/l
RT: 7.951 min Scan# 1031
Delta R.T. 0.000 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

Tgt Ion:113 Resp: 143200
Ion Ratio Lower Upper
113 100
111 102.0 83.0 124.4
192 15.3 13.7 20.5

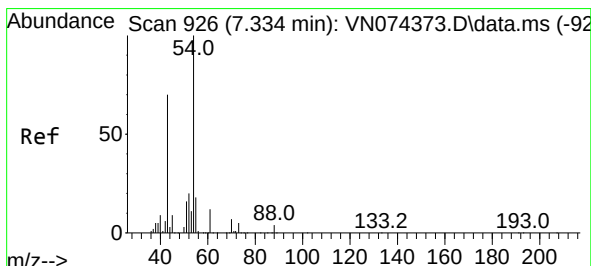
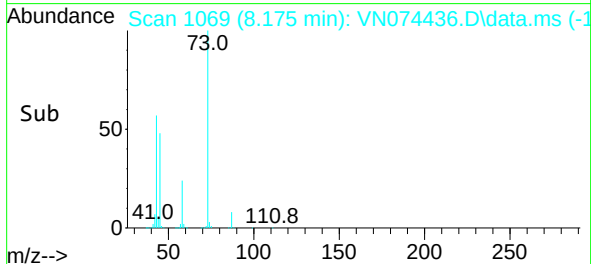
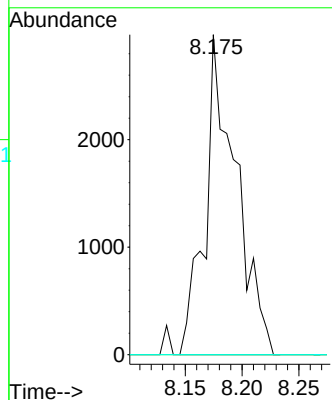
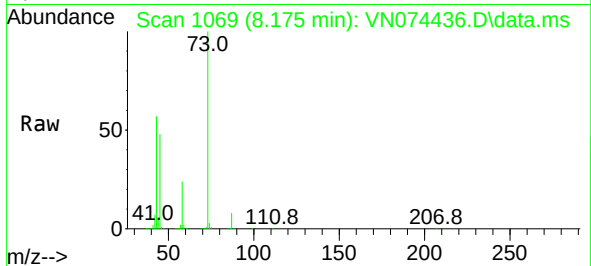




#36
1,1-Dichloropropene
Concen: 1.274 ug/l
RT: 8.175 min Scan# 1065
Delta R.T. 0.024 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

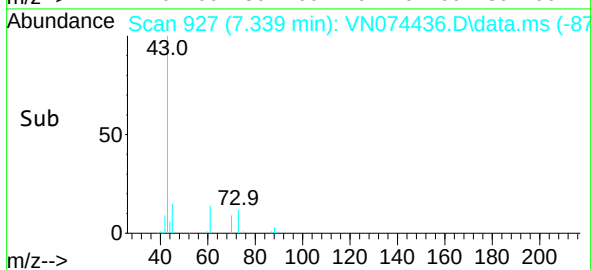
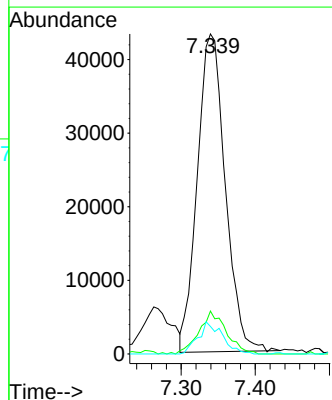
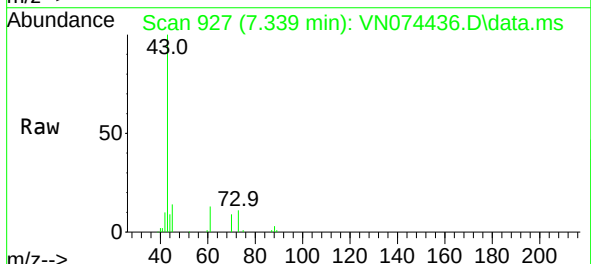
Instrument :
MSVOA_N
ClientSampleId :
AUD-1665

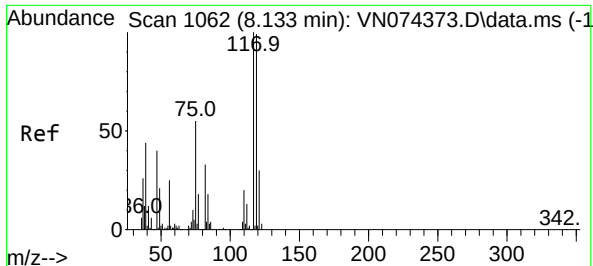
Tgt Ion: 75 Resp: 5623
Ion Ratio Lower Upper
75 100
110 0.0 16.4 49.1#
77 0.0 25.4 38.2#



#37
Ethyl Acetate
Concen: 17.671 ug/l
RT: 7.339 min Scan# 927
Delta R.T. 0.006 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

Tgt Ion: 43 Resp: 113144
Ion Ratio Lower Upper
43 100
61 13.2 11.1 16.7
70 8.8 7.2 10.8

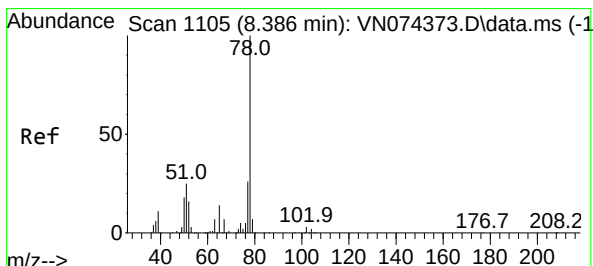
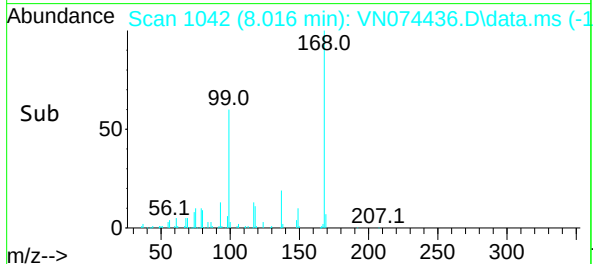
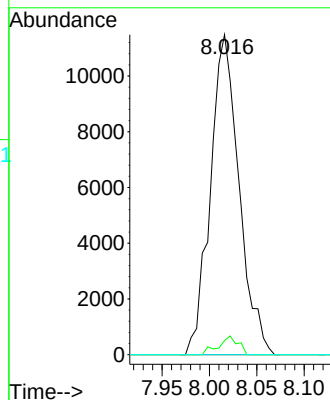
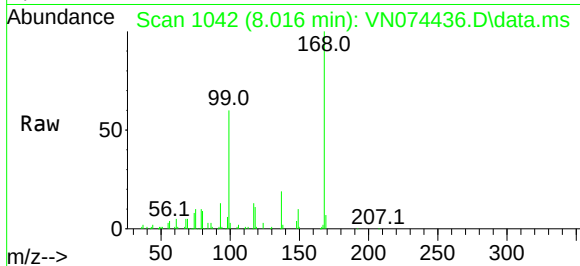




#38
Carbon Tetrachloride
Concen: 5.311 ug/l
RT: 8.016 min Scan# 1105
Delta R.T. -0.118 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

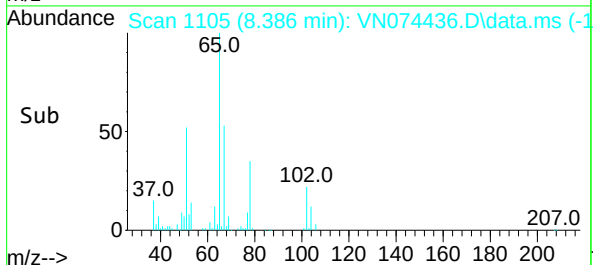
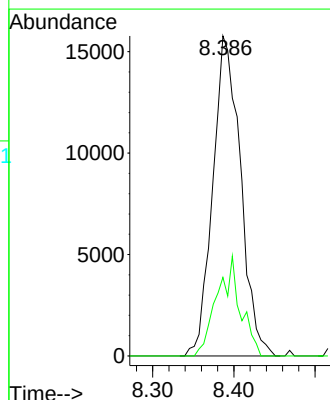
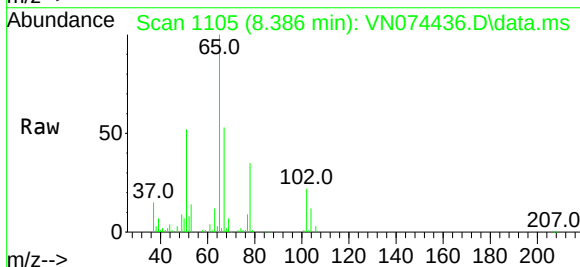
Instrument :
MSVOA_N
ClientSampleId :
AUD-1665

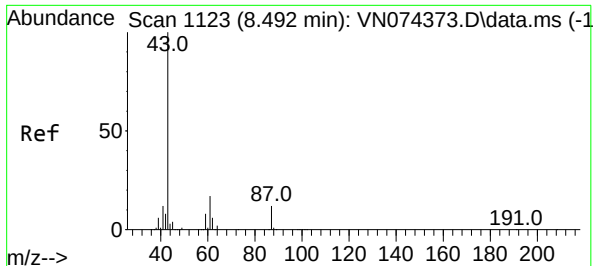
Tgt Ion:117 Resp: 24199
Ion Ratio Lower Upper
117 100
119 4.4 78.8 118.2#
121 0.0 24.1 36.1#



#40
Benzene
Concen: 2.765 ug/l
RT: 8.386 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

Tgt Ion: 78 Resp: 37366
Ion Ratio Lower Upper
78 100
77 24.6 20.6 31.0





#43

Isopropyl Acetate

Concen: 1.151 ug/l

RT: 8.351 min Scan# 1099

Delta R.T. -0.141 min

Lab File: VN074436.D

Acq: 13 Sep 2022 16:27

Instrument :

MSVOA_N

ClientSampleId :

AUD-1665

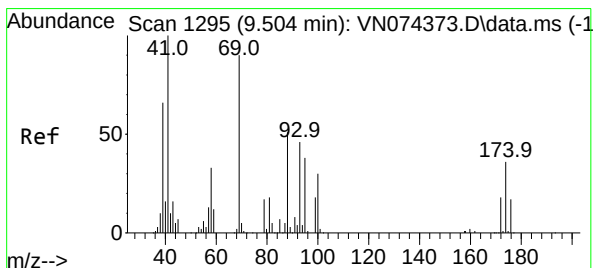
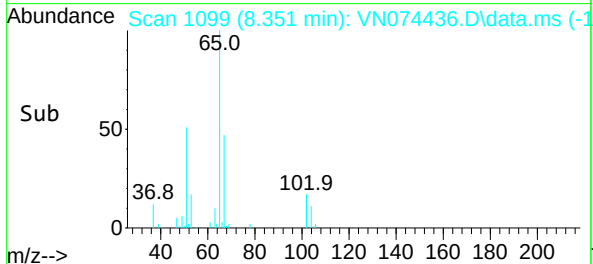
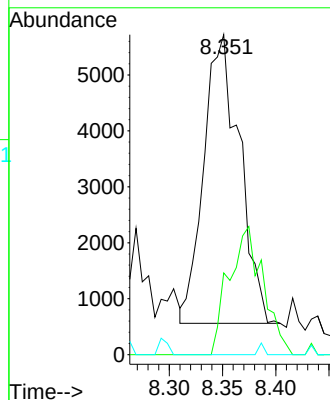
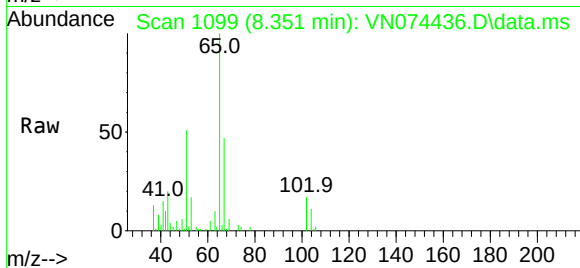
Tgt Ion: 43 Resp: 12055

Ion Ratio Lower Upper

43 100

61 0.0 18.6 27.8#

87 0.0 9.4 14.2#



#49

1,4-Dioxane

Concen: 1.028 ug/l

RT: 9.528 min Scan# 1299

Delta R.T. 0.024 min

Lab File: VN074436.D

Acq: 13 Sep 2022 16:27

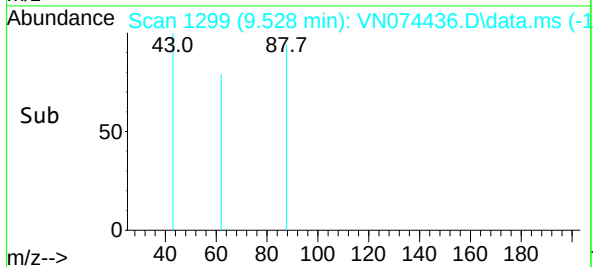
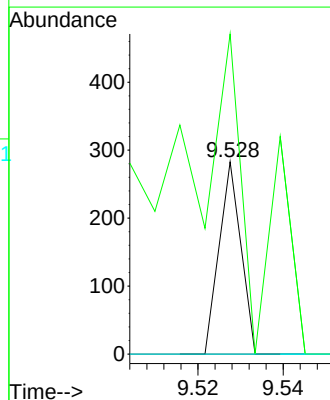
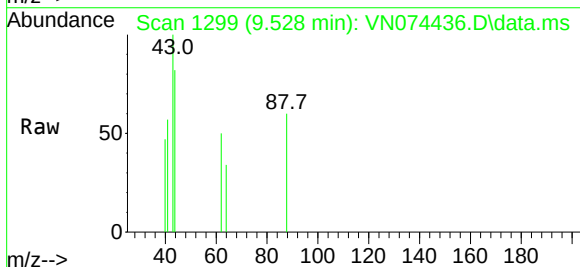
Tgt Ion: 88 Resp: 100

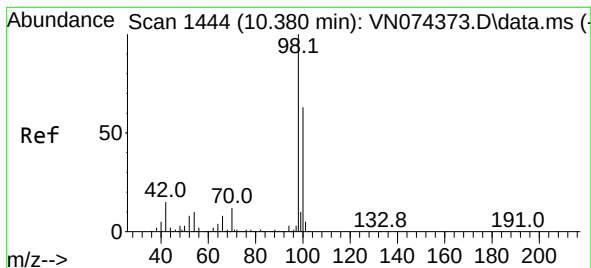
Ion Ratio Lower Upper

88 100

43 0.0 26.9 40.3#

58 0.0 52.7 79.1#





#50

Toluene-d8

Concen: 46.326 ug/l

RT: 10.380 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN074436.D

Acq: 13 Sep 2022 16:27

Instrument :

MSVOA_N

ClientSampleId :

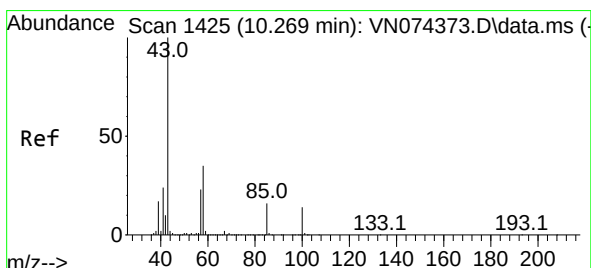
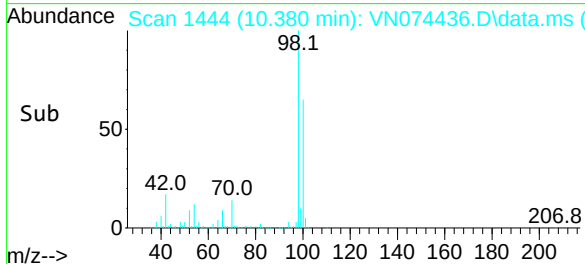
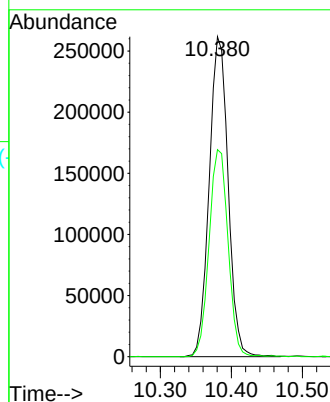
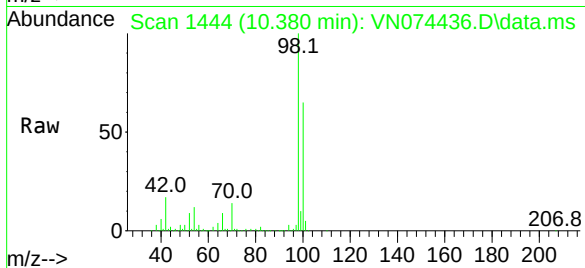
AUD-1665

Tgt Ion: 98 Resp: 483617

Ion Ratio Lower Upper

98 100

100 64.9 50.6 76.0



#51

4-Methyl-2-Pentanone

Concen: 0.207 ug/l

RT: 10.269 min Scan# 1425

Delta R.T. 0.000 min

Lab File: VN074436.D

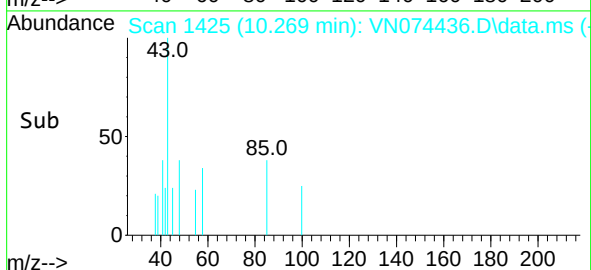
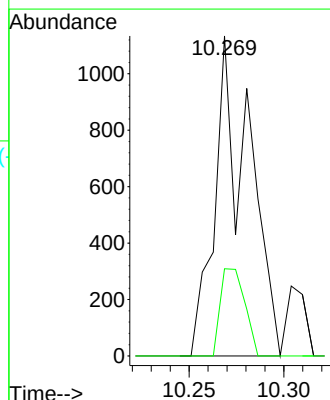
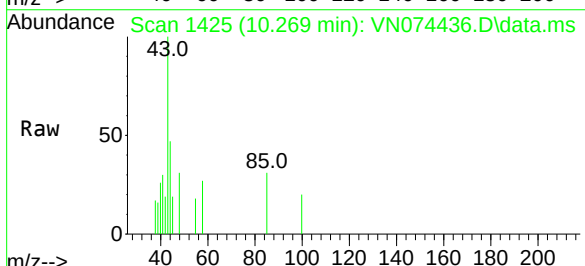
Acq: 13 Sep 2022 16:27

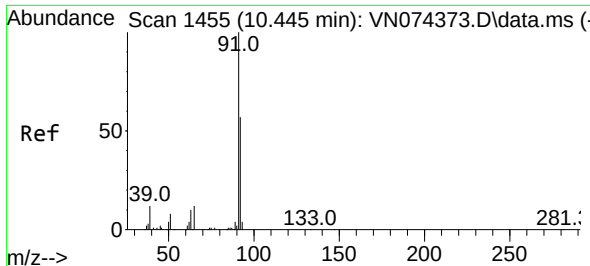
Tgt Ion: 43 Resp: 1419

Ion Ratio Lower Upper

43 100

58 19.5 29.0 43.6#

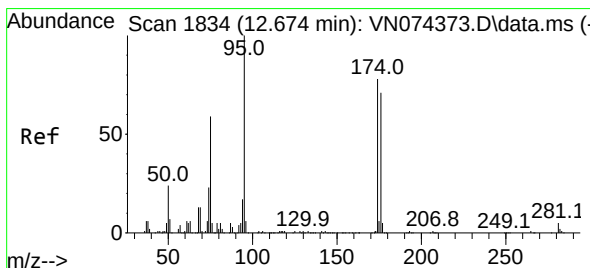
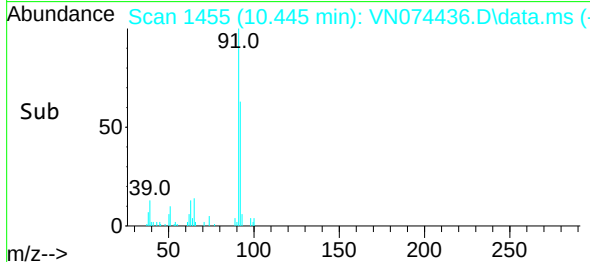
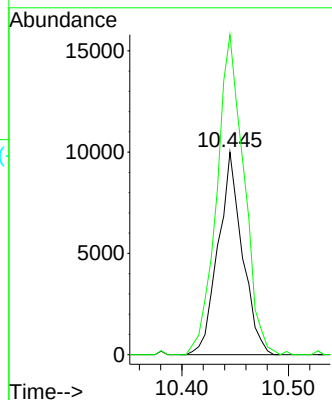
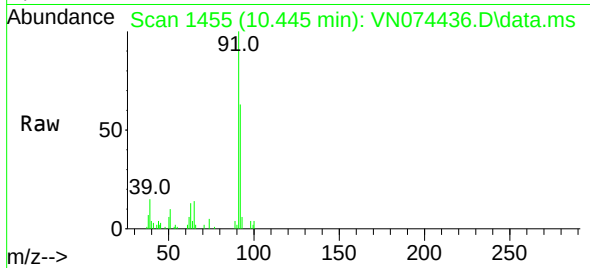




#52
Toluene
Concen: 1.887 ug/l
RT: 10.445 min Scan# 1455
Delta R.T. 0.000 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

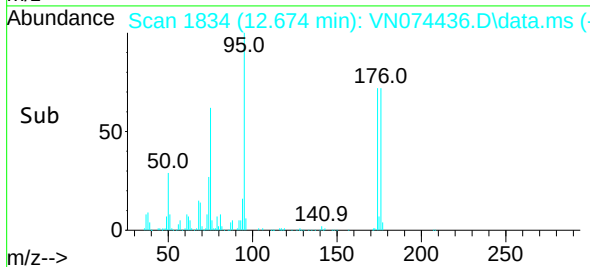
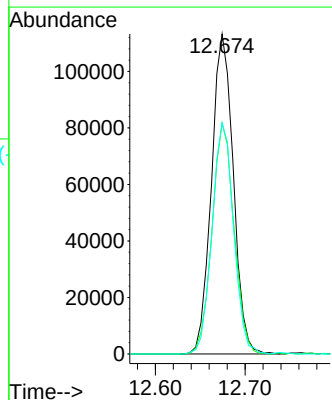
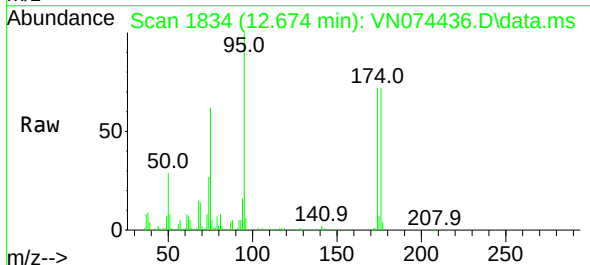
Instrument :
MSVOA_N
ClientSampleId :
AUD-1665

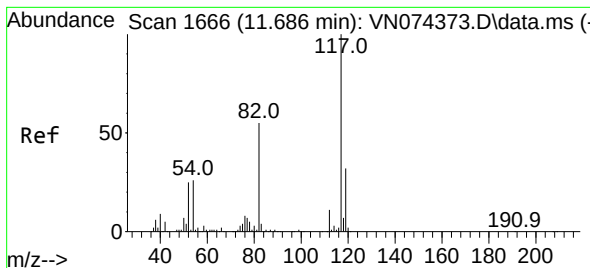
Tgt Ion: 92 Resp: 15771
Ion Ratio Lower Upper
92 100
91 177.8 139.8 209.6



#62
4-Bromofluorobenzene
Concen: 50.479 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

Tgt Ion: 95 Resp: 191325
Ion Ratio Lower Upper
95 100
174 72.5 0.0 150.6
176 71.0 0.0 143.4

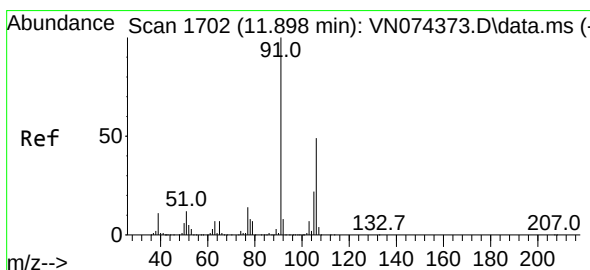
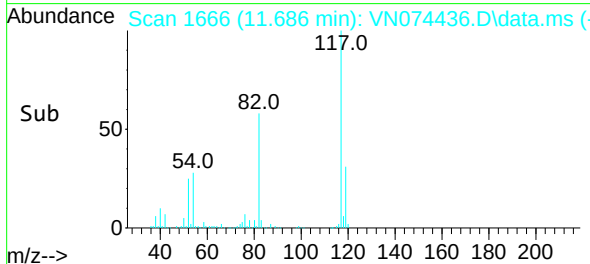
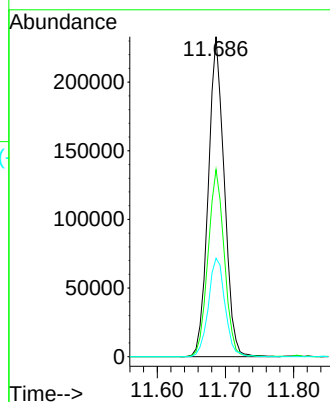
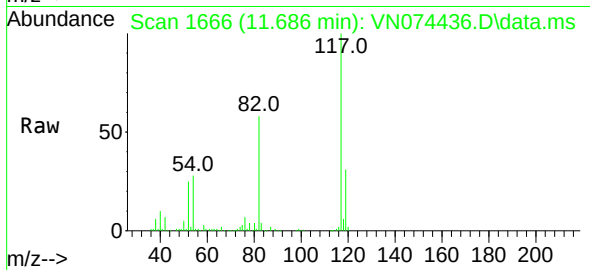




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

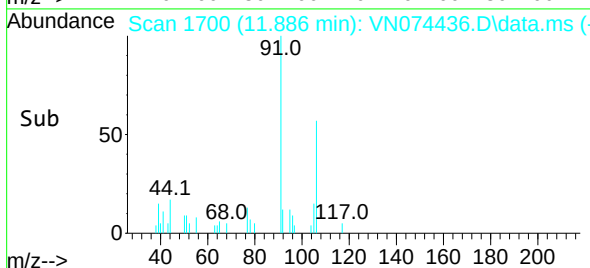
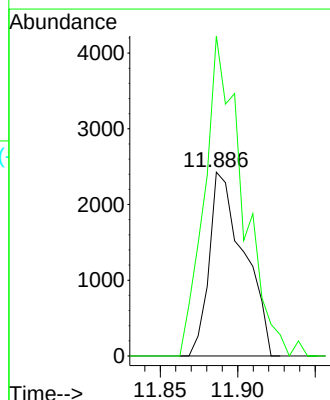
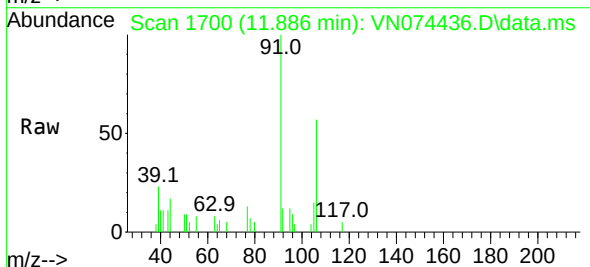
Instrument :
MSVOA_N
ClientSampleId :
AUD-1665

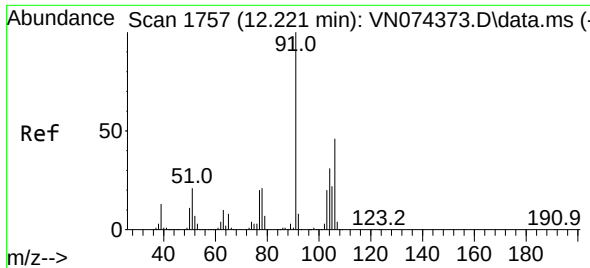
Tgt Ion:117 Resp: 380499
Ion Ratio Lower Upper
117 100
82 58.4 44.3 66.5
119 30.7 25.5 38.3



#68
m/p-Xylenes
Concen: 0.580 ug/l
RT: 11.886 min Scan# 1700
Delta R.T. -0.012 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

Tgt Ion:106 Resp: 3777
Ion Ratio Lower Upper
106 100
91 192.7 167.7 251.5

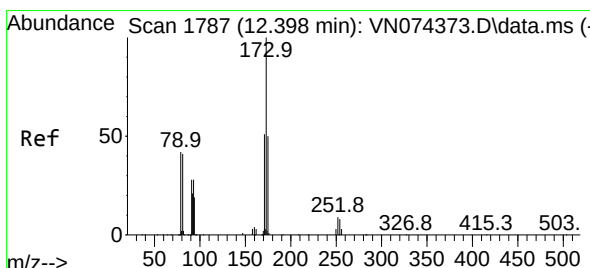
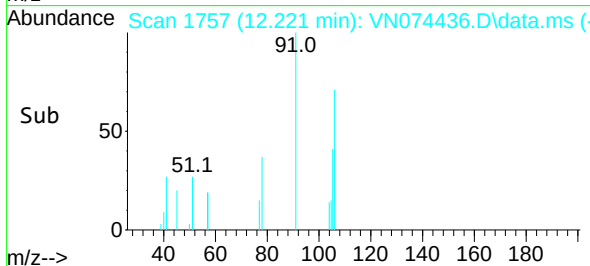
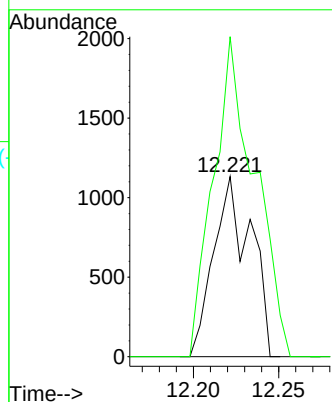
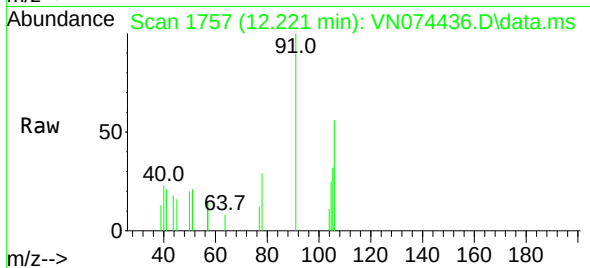




#69
o-Xylene
Concen: 0.261 ug/l
RT: 12.221 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

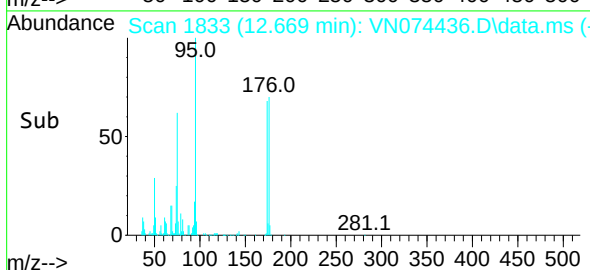
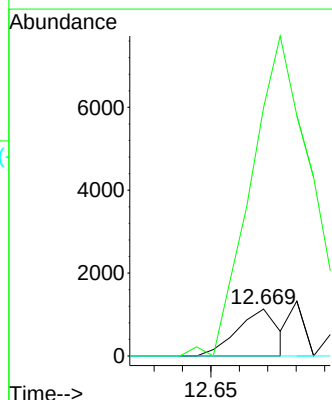
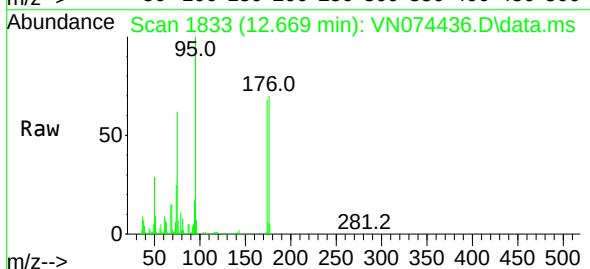
Instrument :
MSVOA_N
ClientSampleId :
AUD-1665

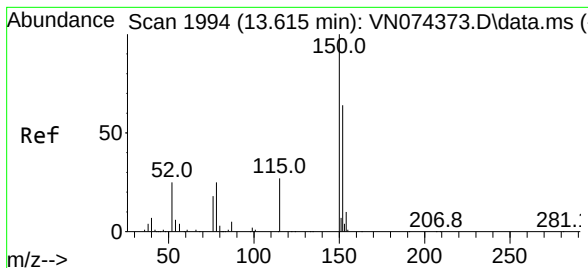
Tgt Ion:106 Resp: 1709
Ion Ratio Lower Upper
106 100
91 199.4 109.4 328.2



#71
Bromoform
Concen: 0.420 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.271 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

Tgt Ion:173 Resp: 1128
Ion Ratio Lower Upper
173 100
175 0.0 24.1 72.3#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.615 min Scan# 1994

Delta R.T. 0.000 min

Lab File: VN074436.D

Acq: 13 Sep 2022 16:27

Instrument :

MSVOA_N

ClientSampleId :

AUD-1665

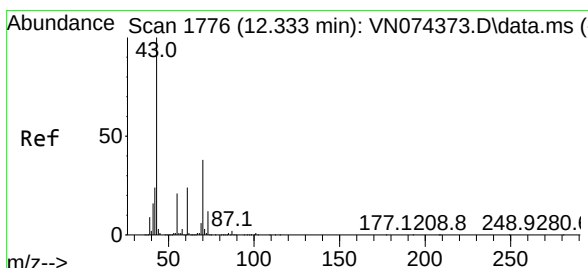
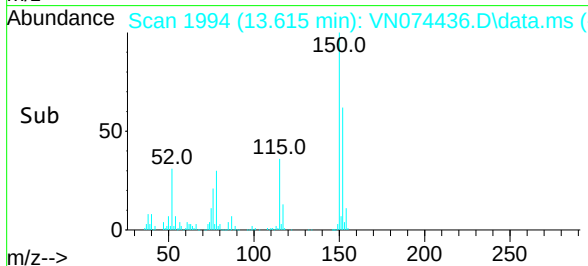
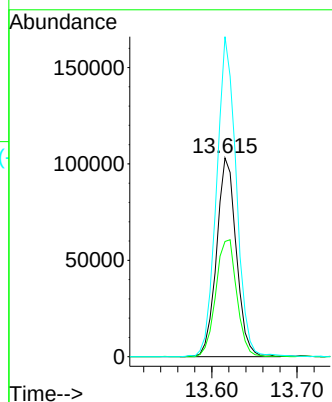
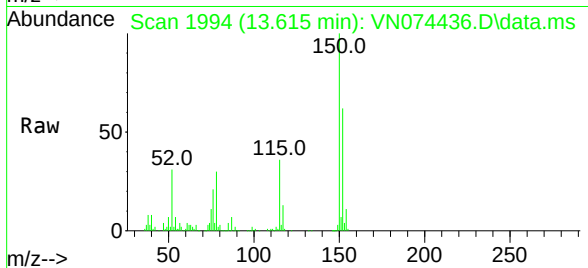
Tgt Ion:152 Resp: 165814

Ion Ratio Lower Upper

152 100

115 62.7 32.0 96.0

150 161.0 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: VN074436.D

Acq: 13 Sep 2022 16:27

Tgt Ion: 43 Resp: 781

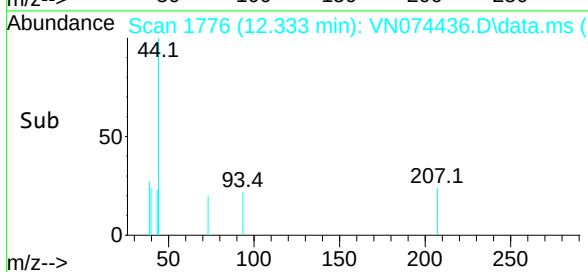
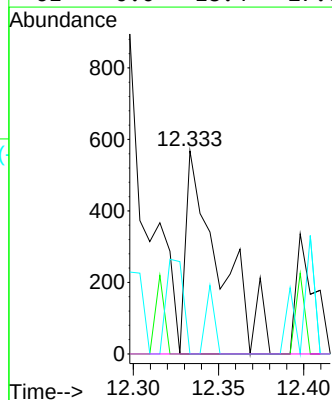
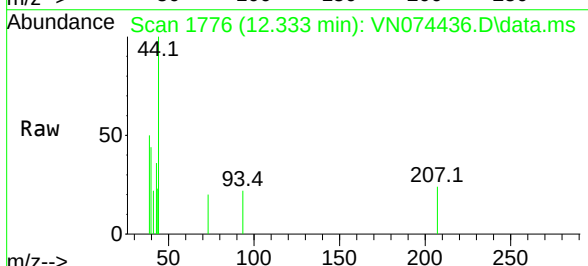
Ion Ratio Lower Upper

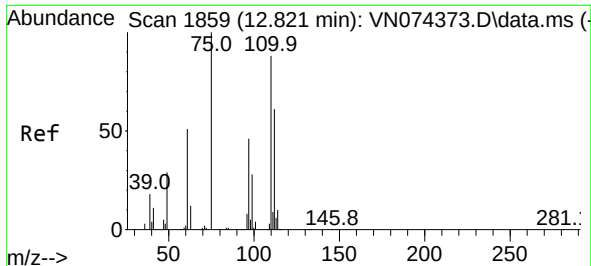
43 100

70 10.0 31.4 47.0#

55 23.7 17.0 25.6

61 0.0 18.4 27.6#

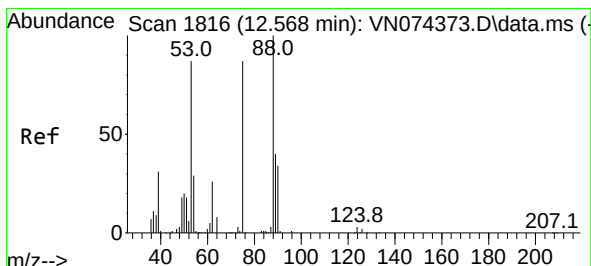
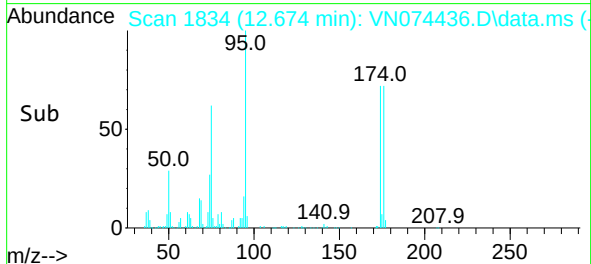
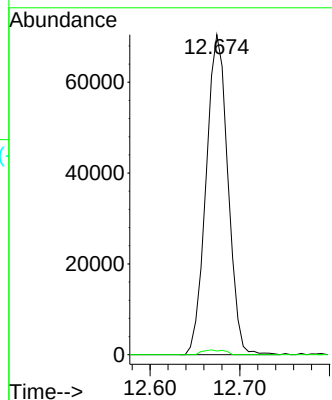
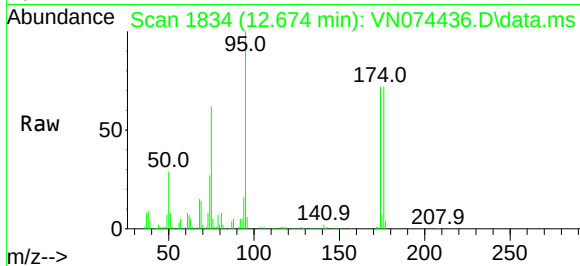




#76
1,2,3-Trichloropropane
Concen: 27.484 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. -0.147 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

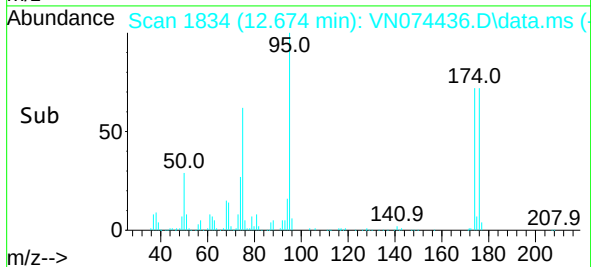
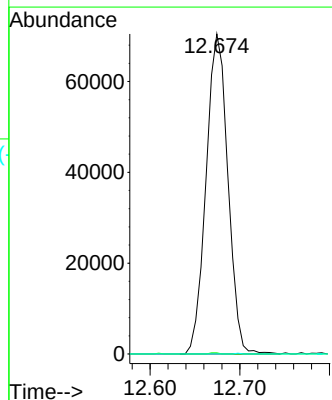
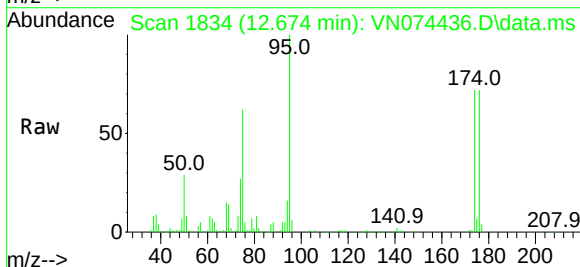
Instrument : MSVOA_N
ClientSampleId : AUD-1665

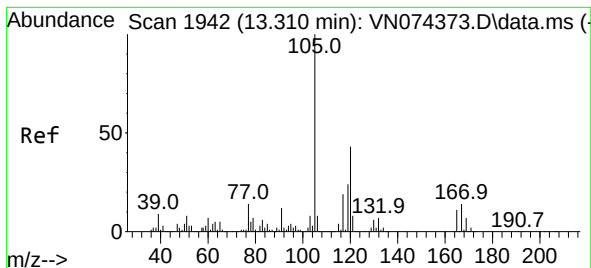
Tgt Ion: 75 Resp: 119134
Ion Ratio Lower Upper
75 100
77 1.5 78.9 236.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 61.261 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.106 min
Lab File: VN074436.D
Acq: 13 Sep 2022 16:27

Tgt Ion: 75 Resp: 119134
Ion Ratio Lower Upper
75 100
53 0.1 82.2 123.2#
89 0.0 37.7 56.5#





#84

1,2,4-Trimethylbenzene

Concen: 0.334 ug/l

RT: 13.339 min Scan# 1947

Delta R.T. 0.029 min

Lab File: VN074436.D

Acq: 13 Sep 2022 16:27

Instrument :

MSVOA_N

ClientSampleId :

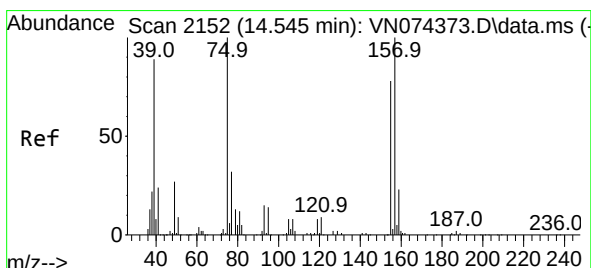
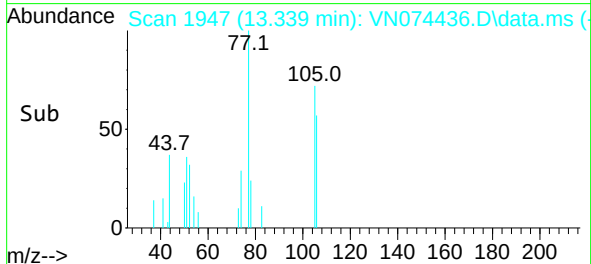
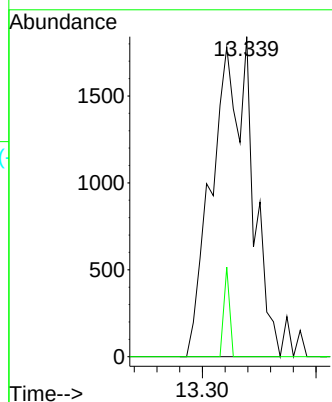
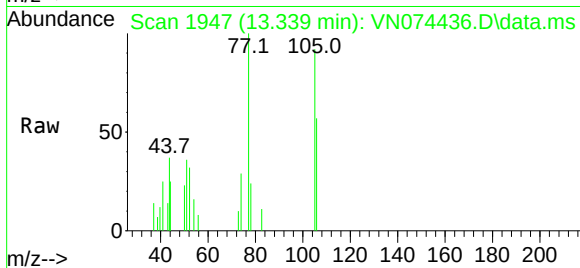
AUD-1665

Tgt Ion:105 Resp: 4372

Ion Ratio Lower Upper

105 100

120 4.2 21.9 65.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.527 min Scan# 2149

Delta R.T. -0.018 min

Lab File: VN074436.D

Acq: 13 Sep 2022 16:27

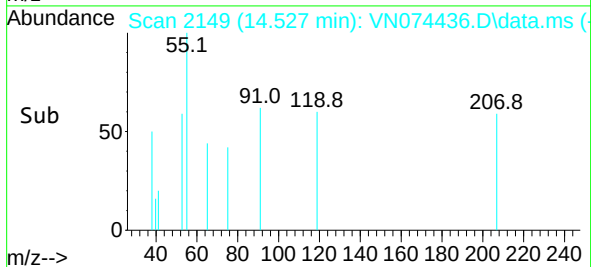
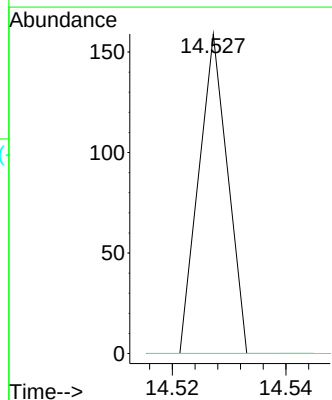
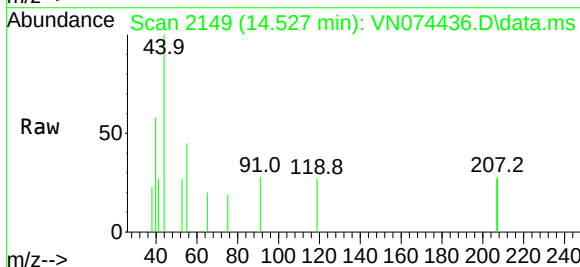
Tgt Ion: 75 Resp: 56

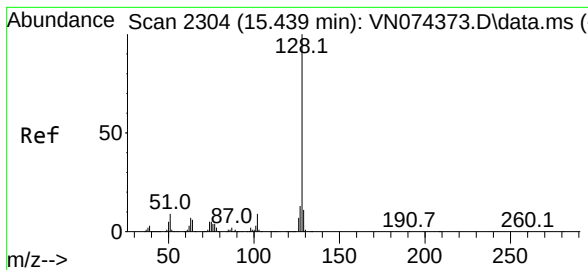
Ion Ratio Lower Upper

75 100

155 0.0 36.6 109.9#

157 0.0 46.2 138.5#





#95
 Naphthalene
 Concen: 1.761 ug/l
 RT: 15.439 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VN074436.D
 Acq: 13 Sep 2022 16:27

Instrument :
 MSVOA_N
 ClientSampleId :
 AUD-1665

Tgt Ion:	128	Resp:	22832
Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.6	16.0
129	11.8	8.8	13.2

