

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN061622\
 Data File : VN072894.D
 Acq On : 16 Jun 2022 21:39
 Operator : JC\MD
 Sample : N3202-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 17 06:07:27 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061622W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 17 06:04:26 2022
 Response via : Initial Calibration

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

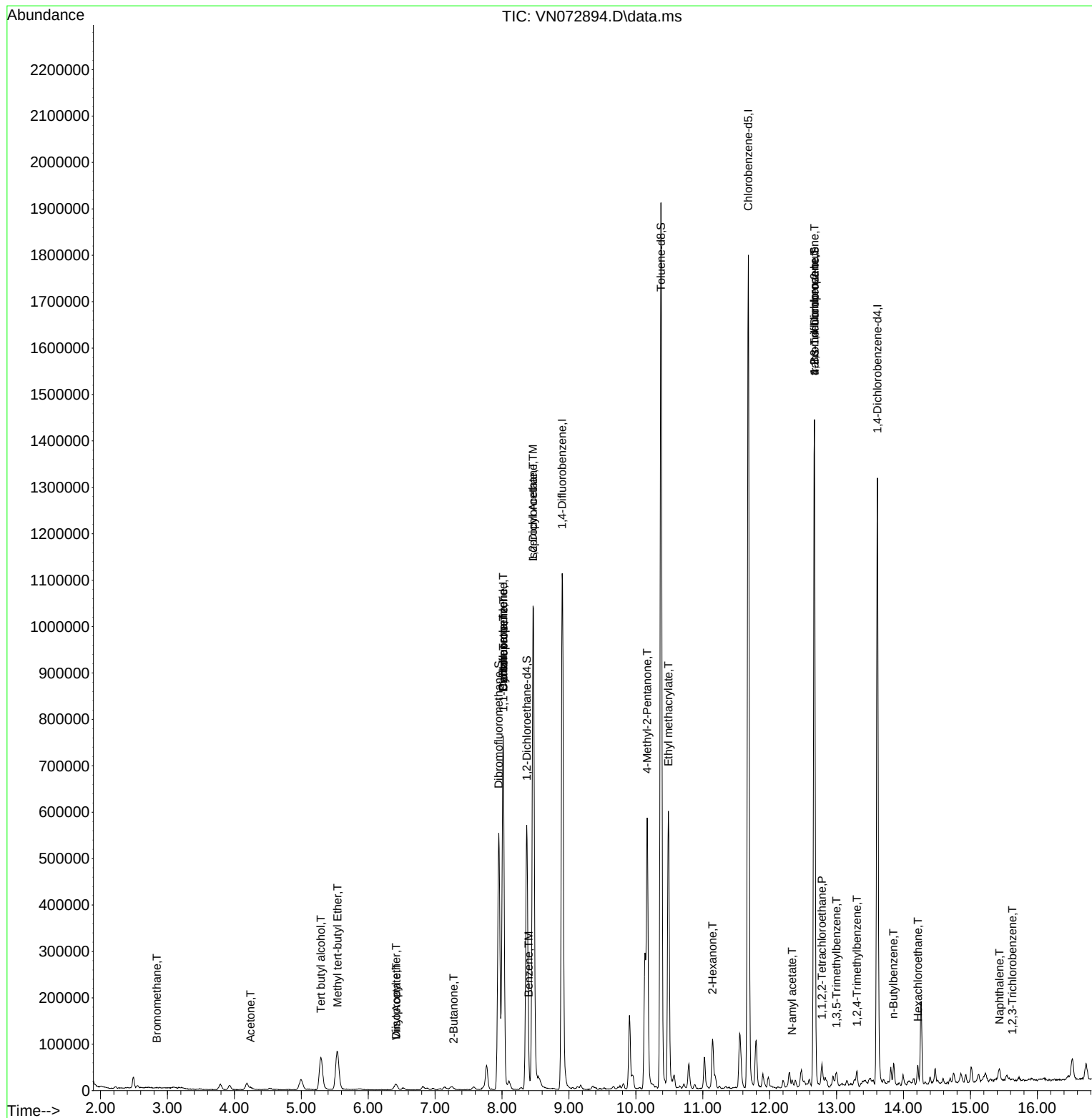
Internal Standards						
1) Pentafluorobenzene	8.016	168	606834	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.898	114	1018163	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.680	117	915710	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	362606	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	473924	42.272	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	84.540%
35) Dibromofluoromethane	7.951	113	405303	43.823	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	87.640%
50) Toluene-d8	10.375	98	1318874	36.431	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	72.860%
62) 4-Bromofluorobenzene	12.669	95	512803	40.834	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	81.660%
Target Compounds						
					Qvalue	
5) Bromomethane	2.840	94	688	0.237	ug/l #	2
11) Tert butyl alcohol	5.293	59	140609	48.168	ug/l	99
13) Acrolein	3.993	56	180	Below Cal	#	16
16) Acetone	4.240	43	8228	1.454	ug/l #	87
19) Methyl tert-butyl Ether	5.540	73	126614	4.089	ug/l #	85
22) Diisopropyl ether	6.416	45	15181	0.479	ug/l #	82
23) Vinyl Acetate	6.422	43	8010	0.278	ug/l #	68
25) 2-Butanone	7.275	43	6491	0.720	ug/l #	73
31) Cyclohexane	8.016	56	12659	0.842	ug/l #	26
36) 1,1-Dichloropropene	8.022	75	45372	3.592	ug/l #	49
38) Carbon Tetrachloride	8.016	117	58828	4.326	ug/l #	15
40) Benzene	8.398	78	8810	0.219	ug/l	94
42) 1,2-Dichloroethane	8.463	62	5665	0.390	ug/l	77
43) Isopropyl Acetate	8.463	43	254261	8.937	ug/l #	55
51) 4-Methyl-2-Pentanone	10.169	43	136194	7.400	ug/l #	55
56) Ethyl methacrylate	10.486	69	50580	2.833	ug/l #	38
59) 2-Hexanone	11.145	43	31969	2.339	ug/l	78
74) N-amyl acetate	12.333	43	3211	0.216	ug/l #	60
75) 1,1,2,2-Tetrachloroethane	12.780	83	3903	0.345	ug/l #	52
76) 1,2,3-Trichloropropane	12.669	75	255293	23.686	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.998	105	5919	0.214	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.669	75	255293	67.463	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.304	105	18177	0.682	ug/l	95
89) n-Butylbenzene	13.851	91	6469	0.324	ug/l #	1
90) Hexachloroethane	14.216	117	18910	3.370	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.527	75	85	Below Cal	#	11
95) Naphthalene	15.433	128	26273	1.144	ug/l #	97
96) 1,2,3-Trichlorobenzene	15.627	180	1518	0.230	ug/l #	83

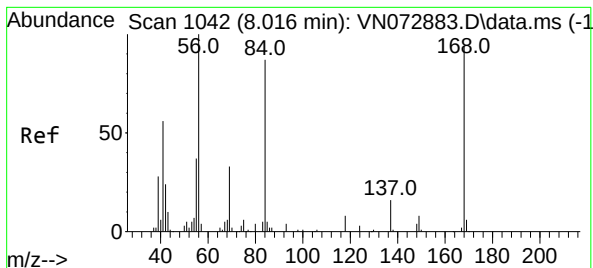
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061622W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 17 06:04:26 2022
Response via : Initial Calibration

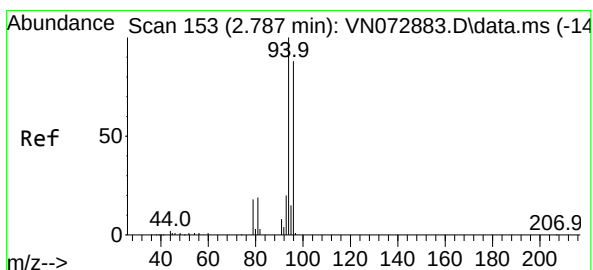
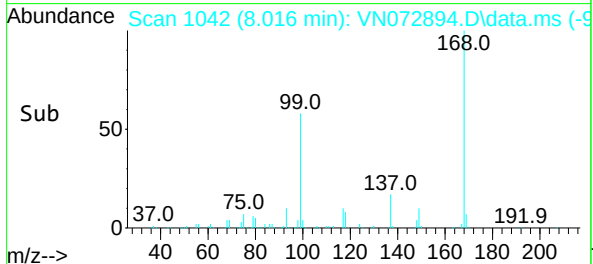
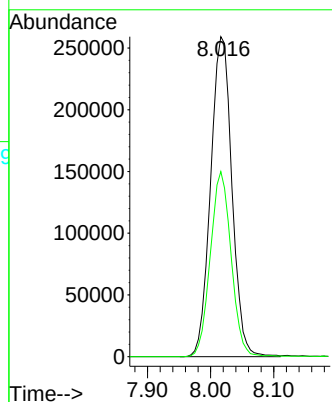
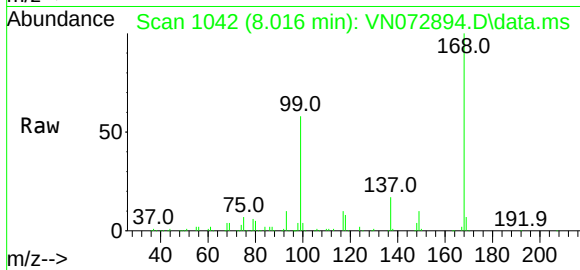




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

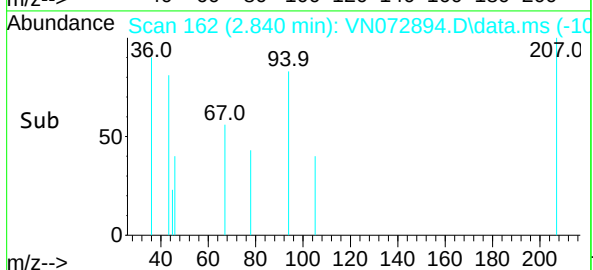
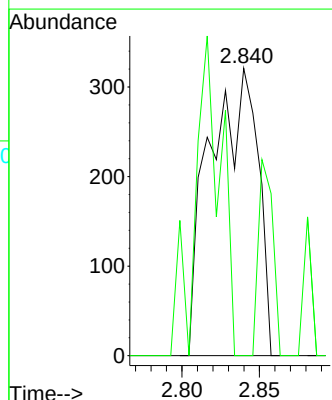
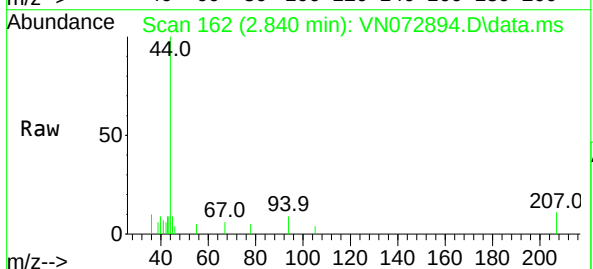
Instrument :
MSVOA_N
ClientSampleId :

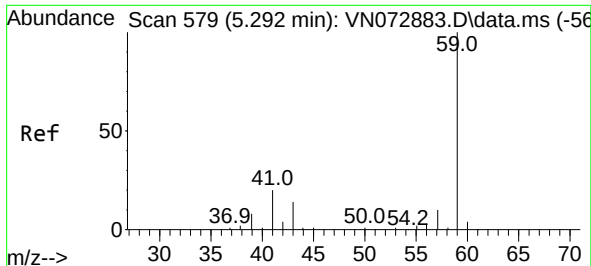
Tgt Ion:168 Resp: 606834
Ion Ratio Lower Upper
168 100
99 57.9 42.3 63.5



#5
Bromomethane
Concen: 0.237 ug/l
RT: 2.840 min Scan# 162
Delta R.T. 0.053 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Tgt Ion: 94 Resp: 688
Ion Ratio Lower Upper
94 100
96 0.0 76.0 114.0#





#11

Tert butyl alcohol

Concen: 48.168 ug/l

RT: 5.293 min Scan# 51

Delta R.T. 0.000 min

Lab File: VN072894.D

Acq: 16 Jun 2022 21:39

Instrument :

MSVOA_N

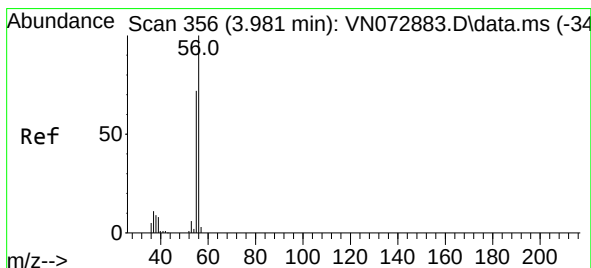
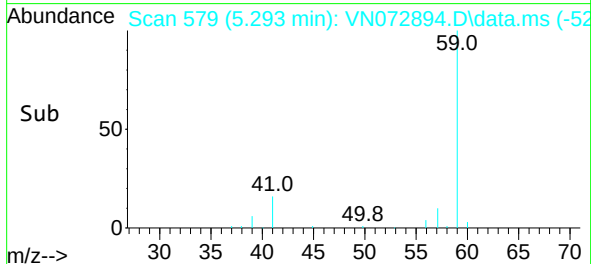
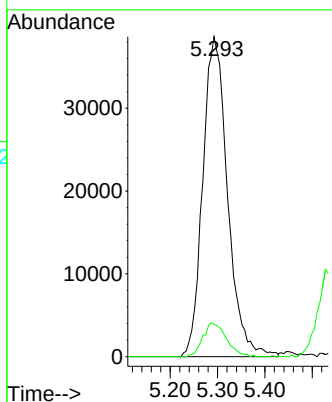
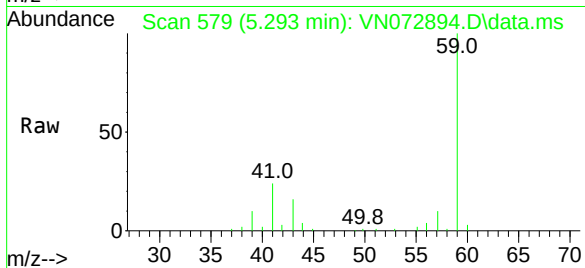
ClientSampleId :

Tgt Ion: 59 Resp: 140609

Ion Ratio Lower Upper

59 100

57 10.0 8.3 12.5



#13

Acrolein

Concen: Below Cal

RT: 3.993 min Scan# 358

Delta R.T. 0.012 min

Lab File: VN072894.D

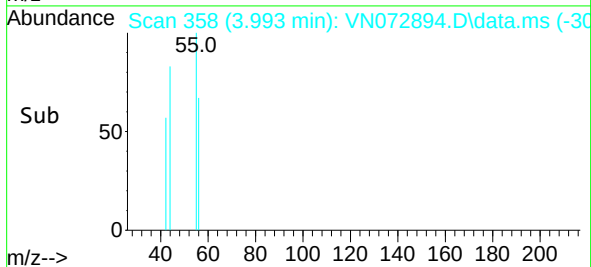
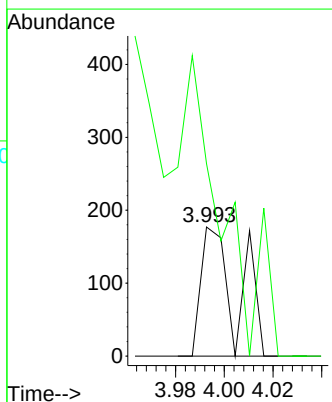
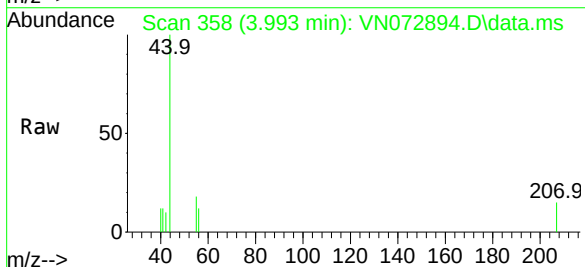
Acq: 16 Jun 2022 21:39

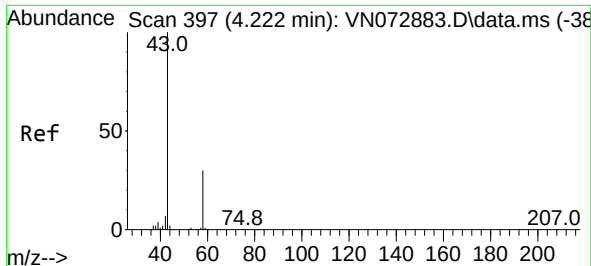
Tgt Ion: 56 Resp: 180

Ion Ratio Lower Upper

56 100

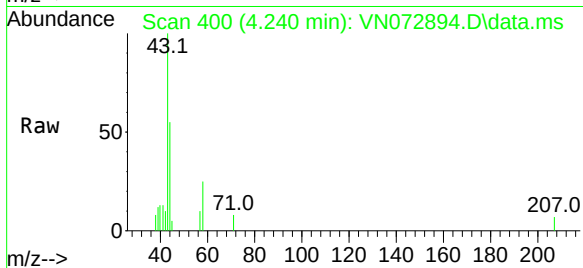
55 0.0 54.8 82.2#



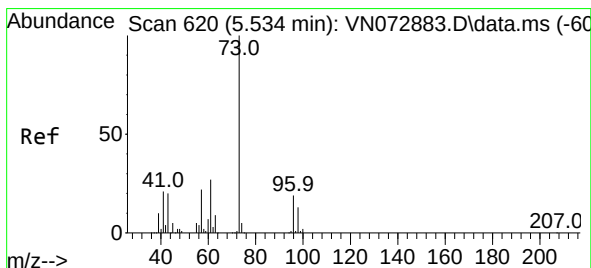
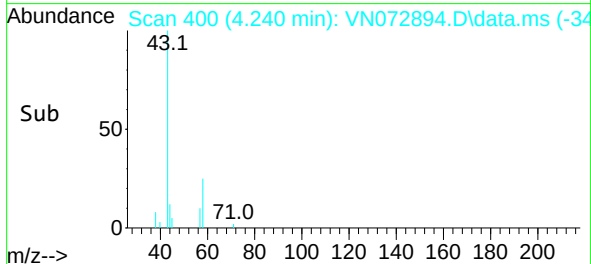
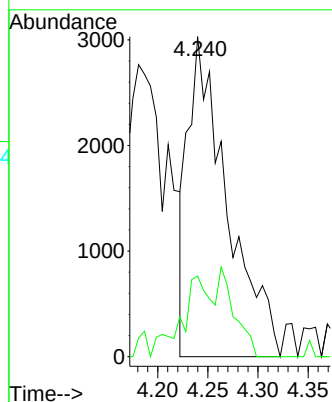


#16
Acetone
Concen: 1.454 ug/l
RT: 4.240 min Scan# 40
Delta R.T. 0.018 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Instrument :
MSVOA_N
ClientSampleId :

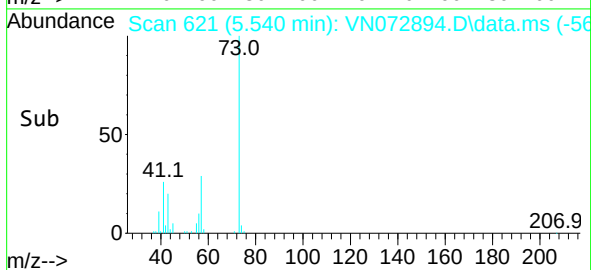
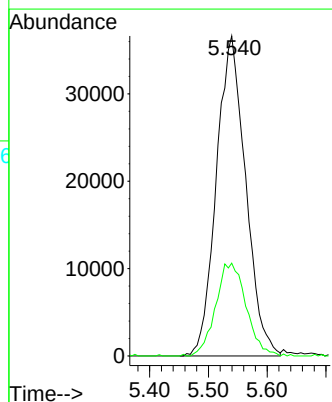
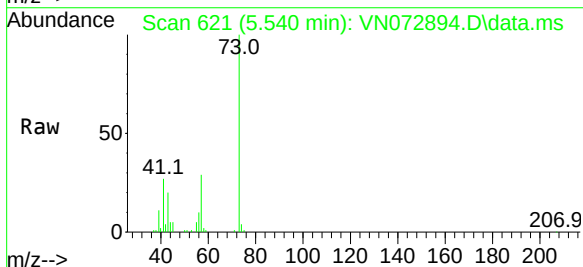


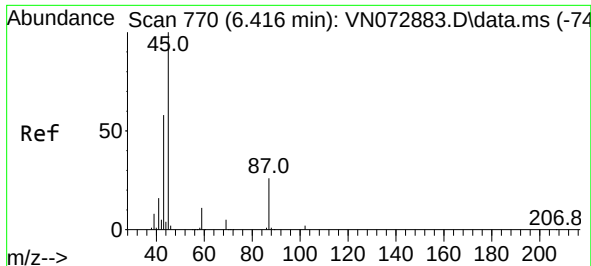
Tgt Ion: 43 Resp: 8228
Ion Ratio Lower Upper
43 100
58 25.2 26.0 39.0#



#19
Methyl tert-butyl Ether
Concen: 4.089 ug/l
RT: 5.540 min Scan# 621
Delta R.T. 0.006 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

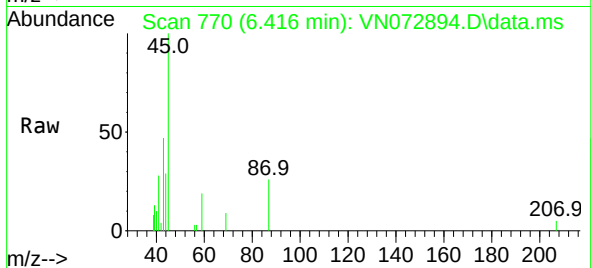
Tgt Ion: 73 Resp: 126614
Ion Ratio Lower Upper
73 100
57 29.0 17.6 26.4#



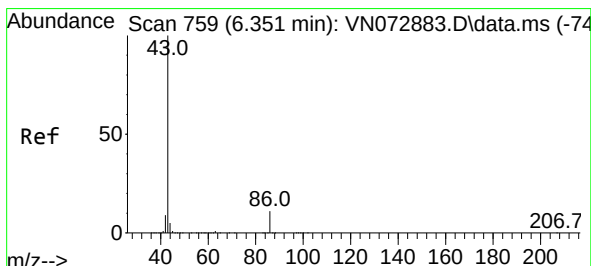
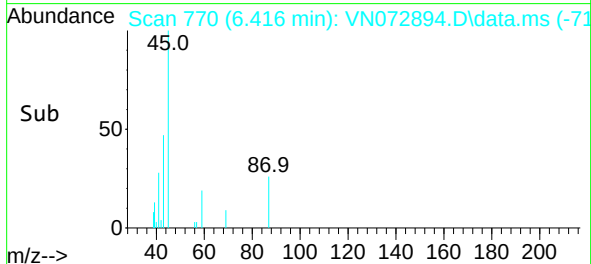
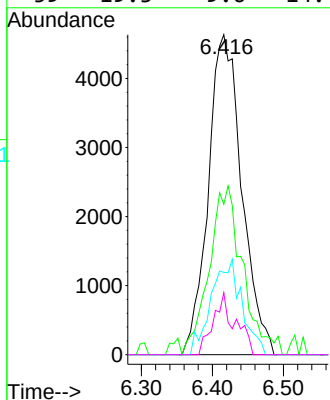


#22
Diisopropyl ether
Concen: 0.479 ug/l
RT: 6.416 min Scan# 711
Delta R.T. 0.000 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Instrument :
MSVOA_N
ClientSampleId :

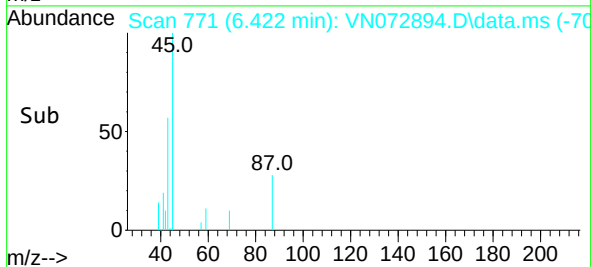
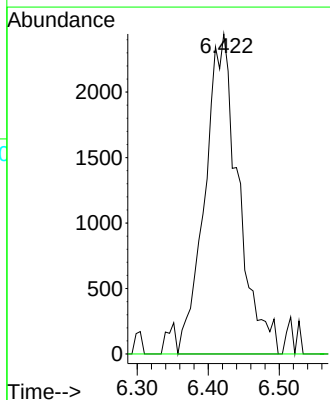
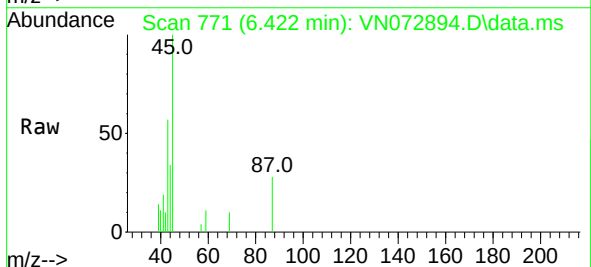


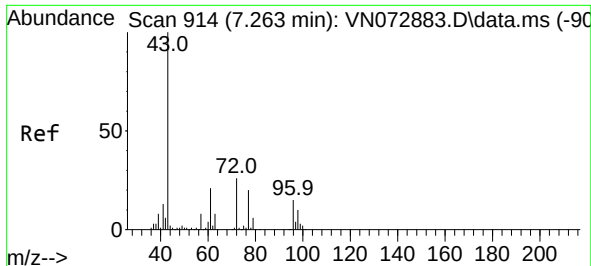
Tgt Ion:	45	Resp:	15181
Ion	Ratio	Lower	Upper
45	100		
43	41.9	46.6	70.0#
87	25.7	24.3	36.5
59	19.3	9.6	14.4#



#23
Vinyl Acetate
Concen: 0.278 ug/l
RT: 6.422 min Scan# 771
Delta R.T. 0.071 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Tgt Ion:	43	Resp:	8010
Ion	Ratio	Lower	Upper
43	100		
86	0.0	10.0	15.0#

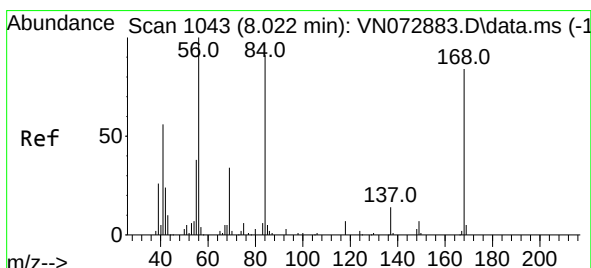
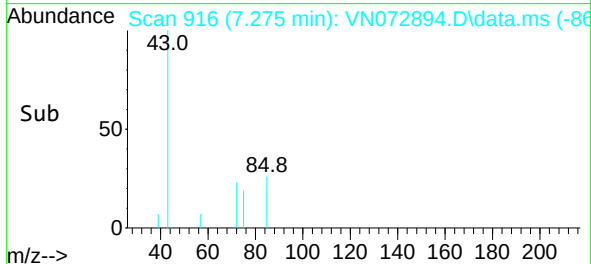
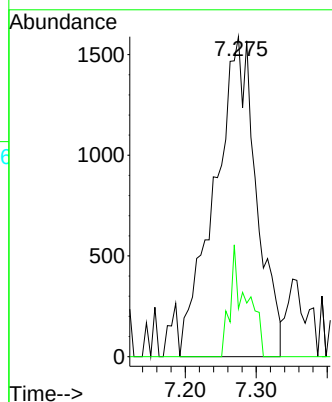
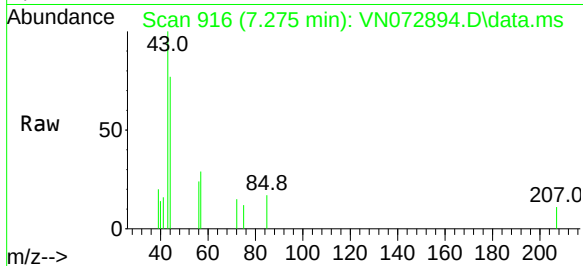




#25
2-Butanone
Concen: 0.720 ug/l
RT: 7.275 min Scan# 914
Delta R.T. 0.012 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

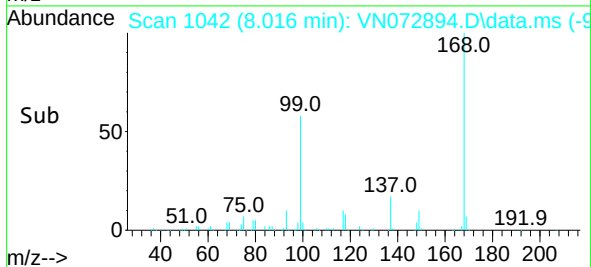
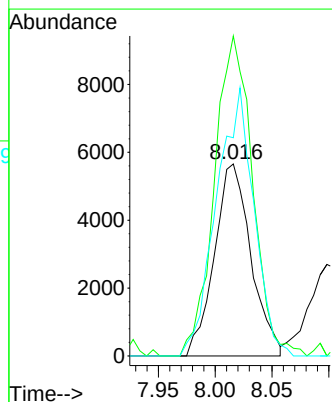
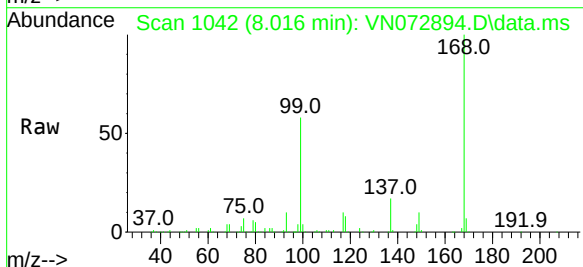
Instrument :
MSVOA_N
ClientSampleId :

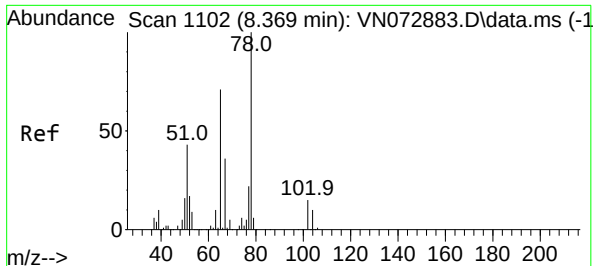
Tgt Ion: 43 Resp: 6491
Ion Ratio Lower Upper
43 100
72 15.0 23.7 35.5#



#31
Cyclohexane
Concen: 0.842 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Tgt Ion: 56 Resp: 12659
Ion Ratio Lower Upper
56 100
69 166.6 27.8 41.8#
84 113.7 76.9 115.3





#33

1,2-Dichloroethane-d4

Concen: 42.272 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN072894.D

Acq: 16 Jun 2022 21:39

Instrument :

MSVOA_N

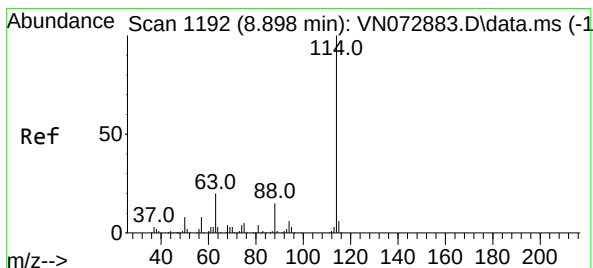
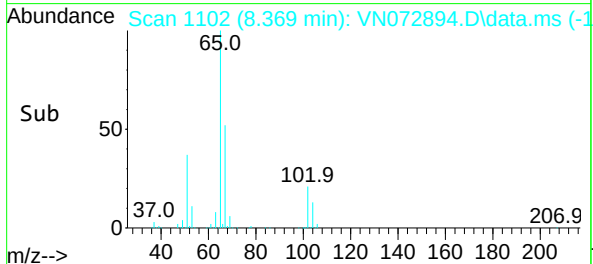
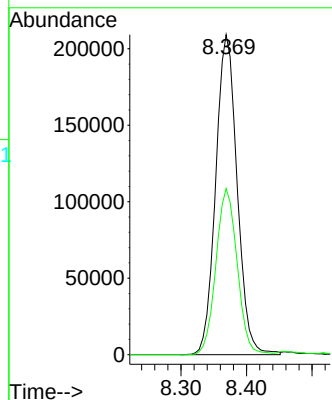
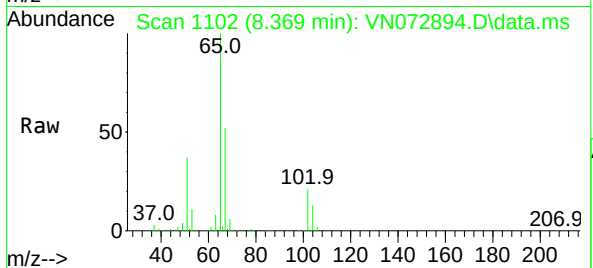
ClientSampleId :

Tgt Ion: 65 Resp: 473924

Ion Ratio Lower Upper

65 100

67 51.4 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.898 min Scan# 1192

Delta R.T. 0.000 min

Lab File: VN072894.D

Acq: 16 Jun 2022 21:39

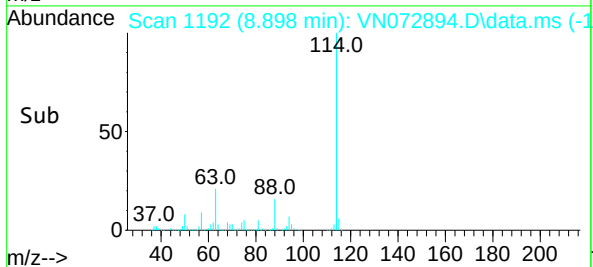
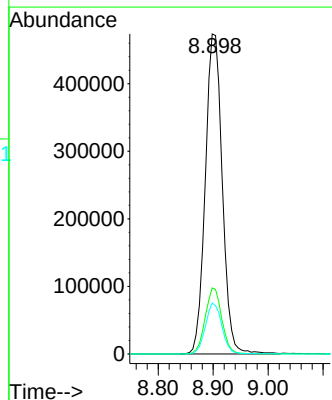
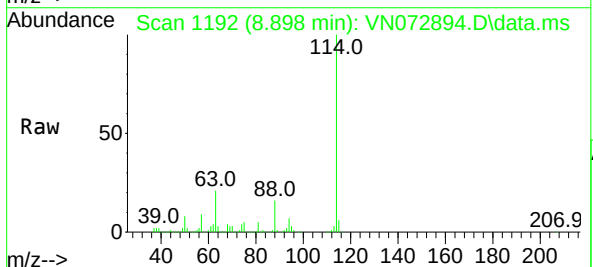
Tgt Ion: 114 Resp: 1018163

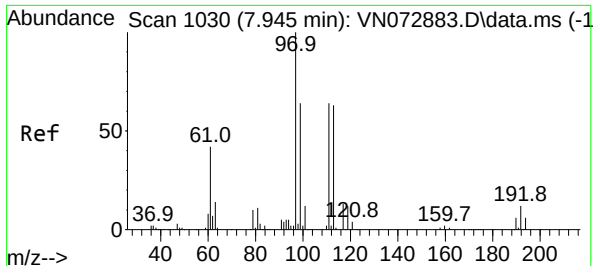
Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.0

88 15.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 43.823 ug/l

RT: 7.951 min Scan# 1

Delta R.T. 0.006 min

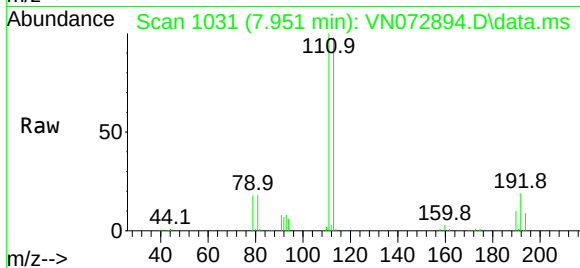
Lab File: VN072894.D

Acq: 16 Jun 2022 21:39

Instrument :

MSVOA_N

ClientSampleId :



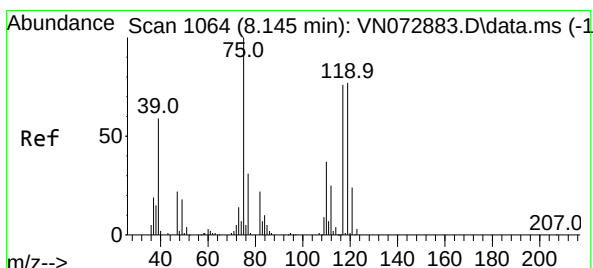
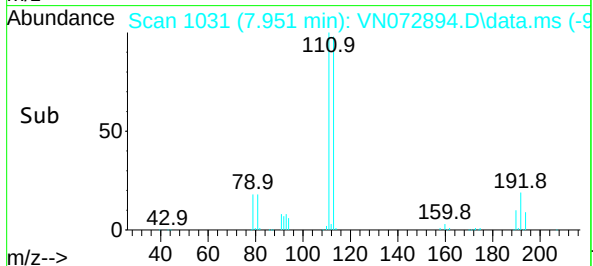
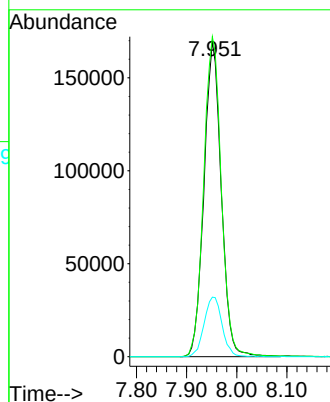
Tgt Ion:113 Resp: 405303

Ion Ratio Lower Upper

113 100

111 103.8 81.4 122.0

192 19.7 17.0 25.6



#36

1,1-Dichloropropene

Concen: 3.592 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. -0.123 min

Lab File: VN072894.D

Acq: 16 Jun 2022 21:39

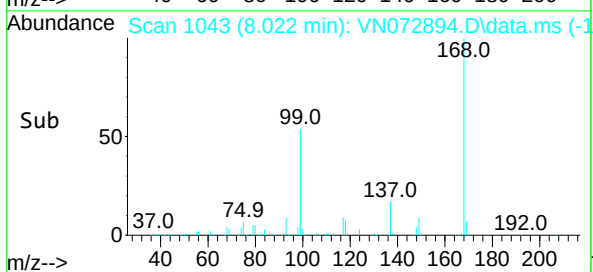
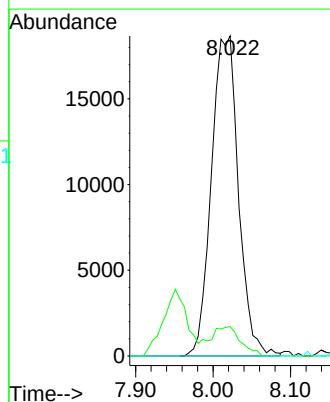
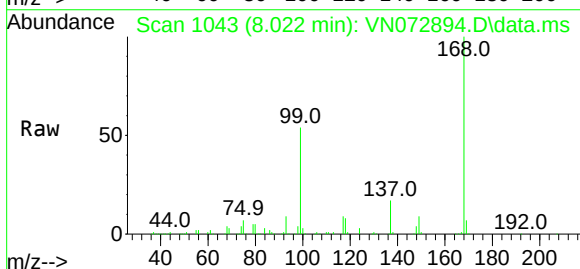
Tgt Ion: 75 Resp: 45372

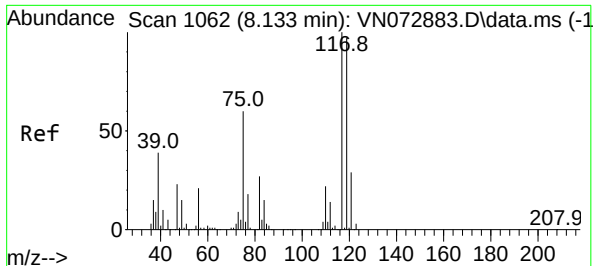
Ion Ratio Lower Upper

75 100

110 9.0 18.3 54.8#

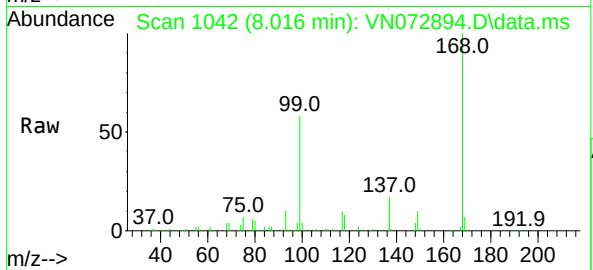
77 0.0 25.1 37.7#



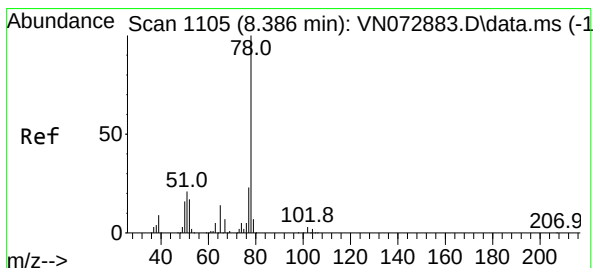
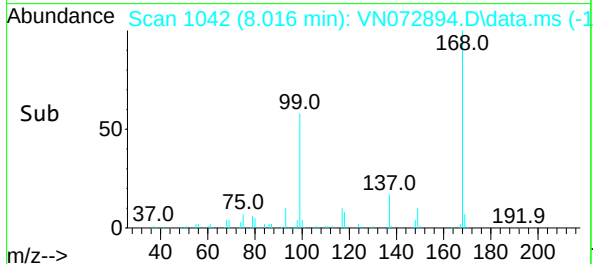
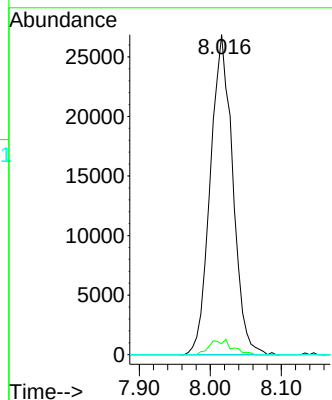


#38
Carbon Tetrachloride
Concen: 4.326 ug/l
RT: 8.016 min Scan# 1107
Delta R.T. -0.117 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Instrument :
MSVOA_N
ClientSampleId :

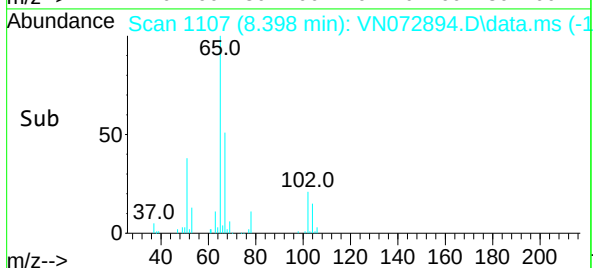
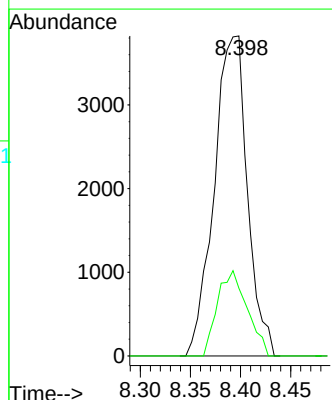
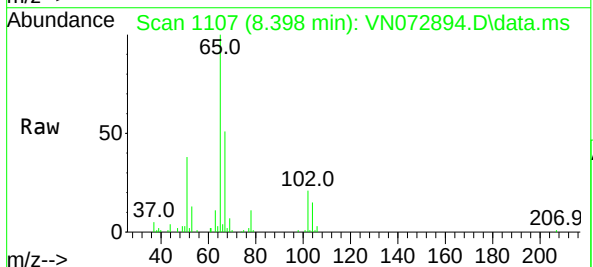


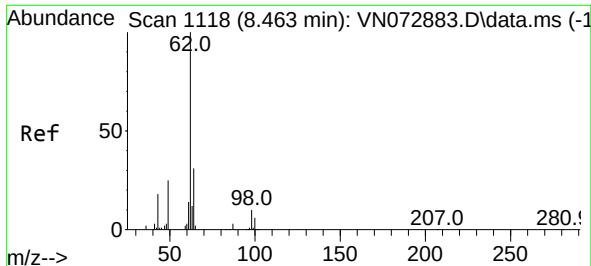
Tgt Ion:117 Resp: 58828
Ion Ratio Lower Upper
117 100
119 3.4 75.8 113.8#
121 0.0 24.6 37.0#



#40
Benzene
Concen: 0.219 ug/l
RT: 8.398 min Scan# 1107
Delta R.T. 0.012 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Tgt Ion: 78 Resp: 8810
Ion Ratio Lower Upper
78 100
77 21.2 19.4 29.0





#42

1,2-Dichloroethane

Concen: 0.390 ug/l

RT: 8.463 min Scan# 1118

Delta R.T. 0.000 min

Lab File: VN072894.D

Acq: 16 Jun 2022 21:39

Instrument :

MSVOA_N

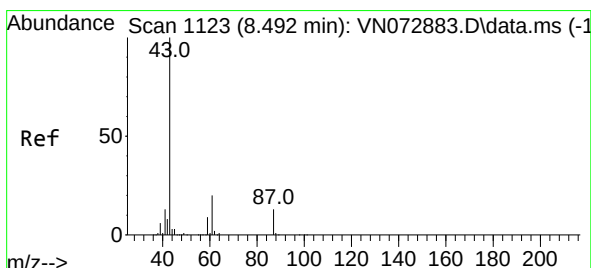
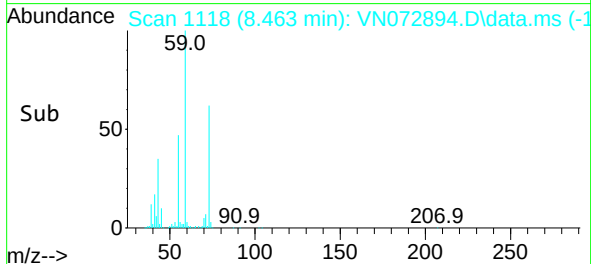
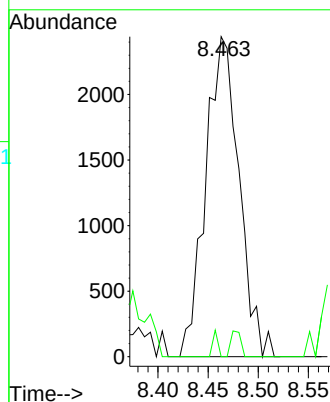
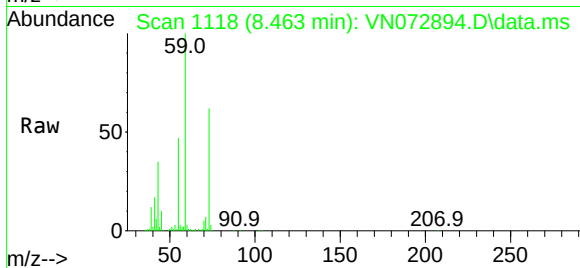
ClientSampleId :

Tgt Ion: 62 Resp: 5665

Ion Ratio Lower Upper

62 100

98 1.3 0.0 19.4



#43

Isopropyl Acetate

Concen: 8.937 ug/l

RT: 8.463 min Scan# 1118

Delta R.T. -0.029 min

Lab File: VN072894.D

Acq: 16 Jun 2022 21:39

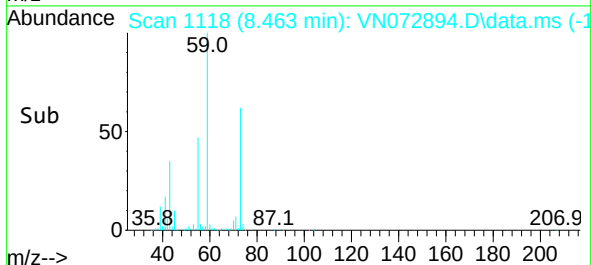
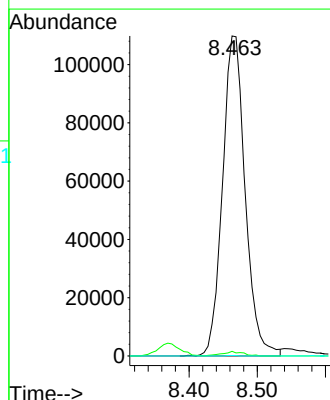
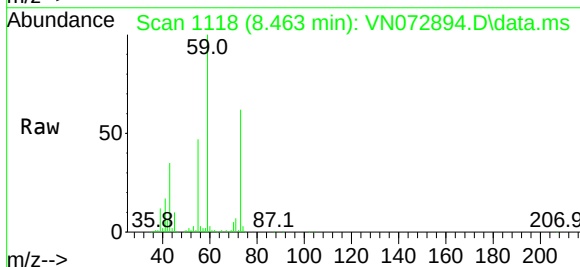
Tgt Ion: 43 Resp: 254261

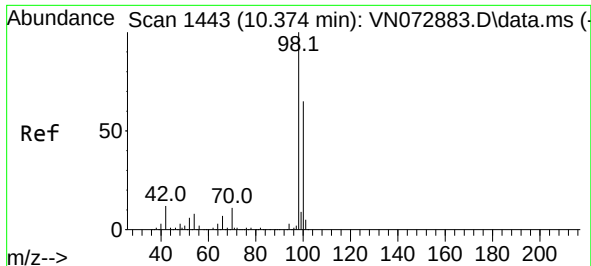
Ion Ratio Lower Upper

43 100

61 1.3 21.9 32.9#

87 0.1 12.0 18.0#

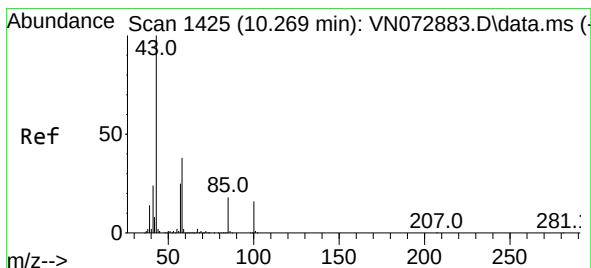
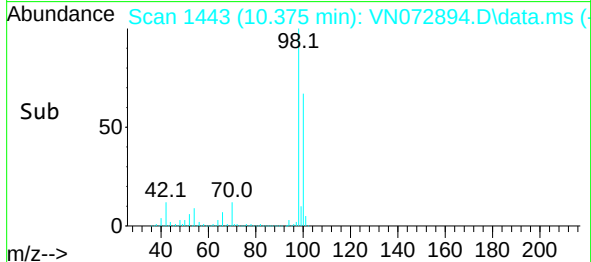
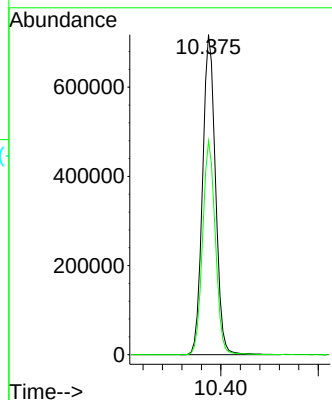
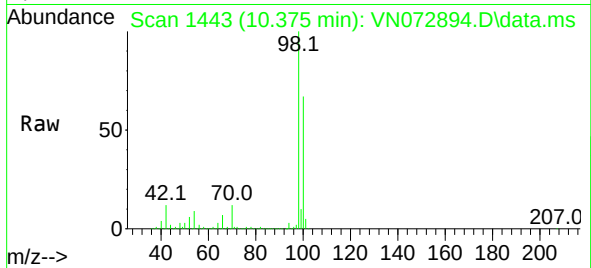




#50
Toluene-d8
Concen: 36.431 ug/l
RT: 10.375 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

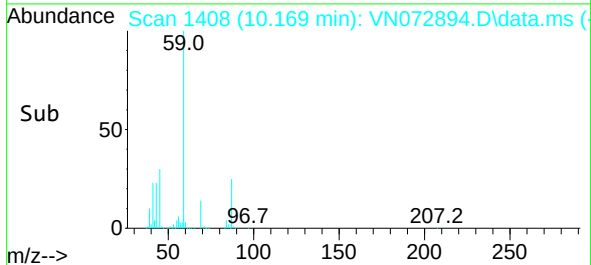
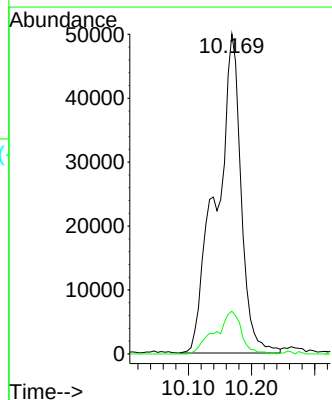
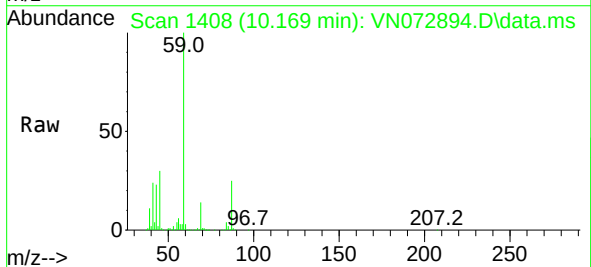
Instrument :
MSVOA_N
ClientSampleId :

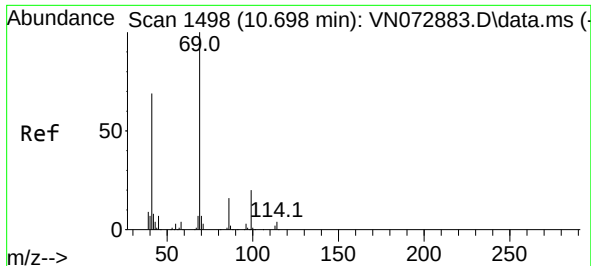
Tgt Ion: 98 Resp: 1318874
Ion Ratio Lower Upper
98 100
100 66.2 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 7.400 ug/l
RT: 10.169 min Scan# 1408
Delta R.T. -0.100 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Tgt Ion: 43 Resp: 136194
Ion Ratio Lower Upper
43 100
58 14.1 34.1 51.1#

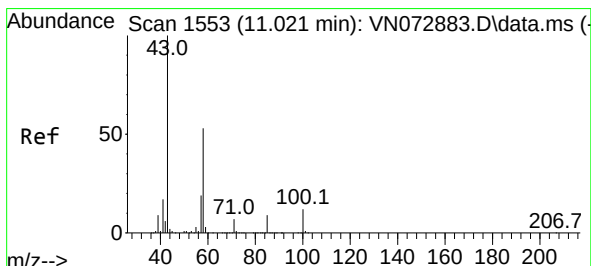
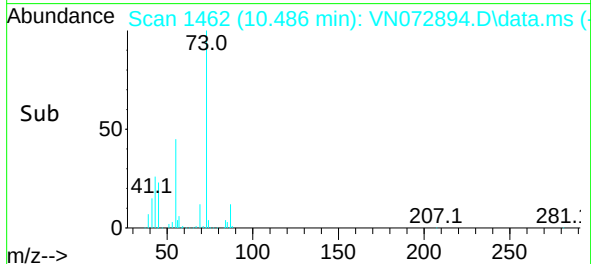
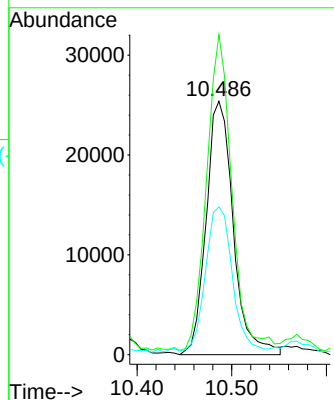
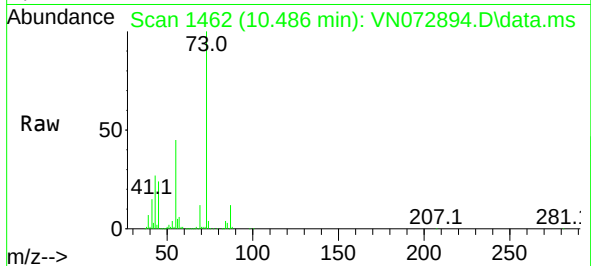




#56
Ethyl methacrylate
Concen: 2.833 ug/l
RT: 10.486 min Scan# 1498
Delta R.T. -0.212 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

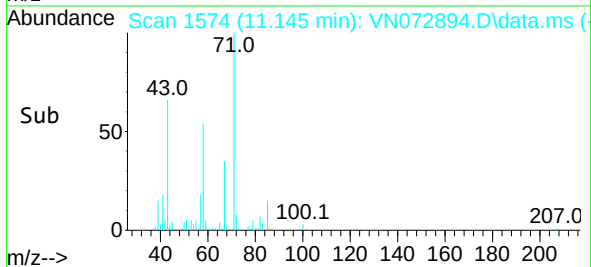
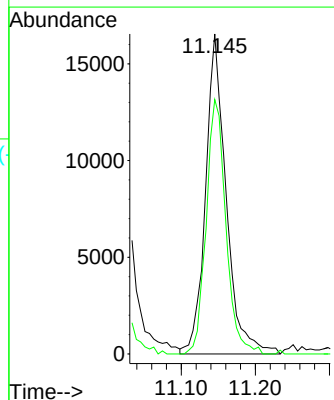
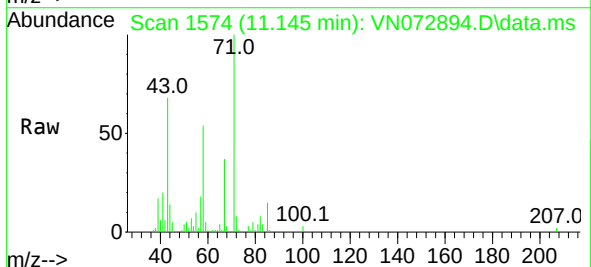
Instrument :
MSVOA_N
ClientSampleId :

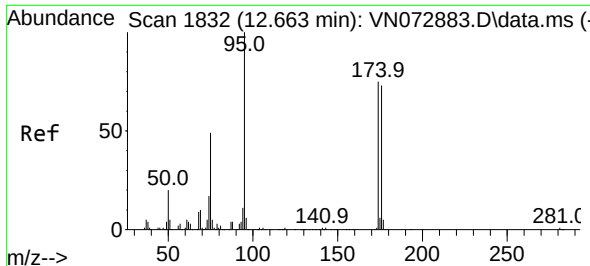
Tgt Ion: 69 Resp: 50580
Ion Ratio Lower Upper
69 100
41 115.6 47.8 71.6#
39 58.1 27.3 40.9#



#59
2-Hexanone
Concen: 2.339 ug/l
RT: 11.145 min Scan# 1574
Delta R.T. 0.124 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Tgt Ion: 43 Resp: 31969
Ion Ratio Lower Upper
43 100
58 76.0 29.7 89.1

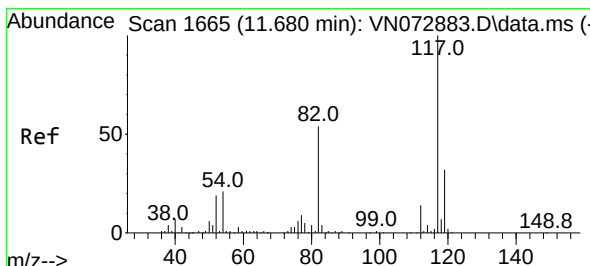
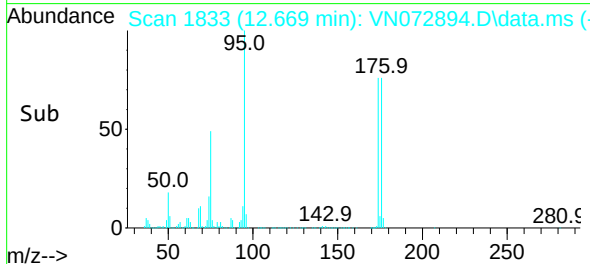
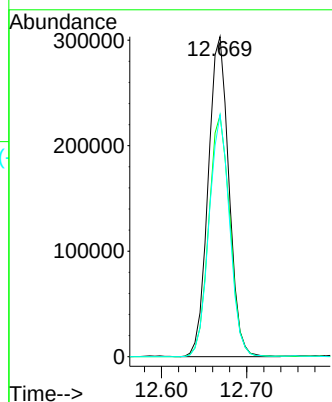
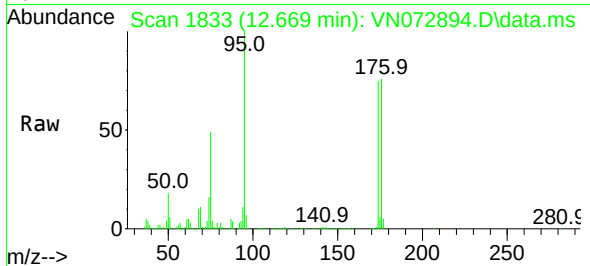




#62
4-Bromofluorobenzene
Concen: 40.834 ug/l
RT: 12.669 min Scan# 1832
Delta R.T. 0.006 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

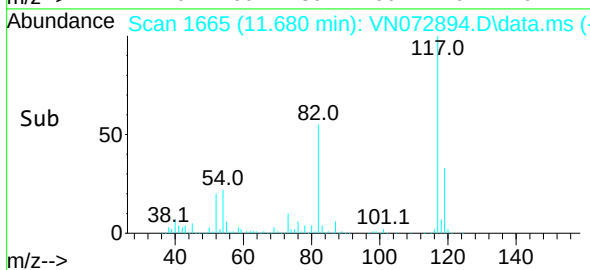
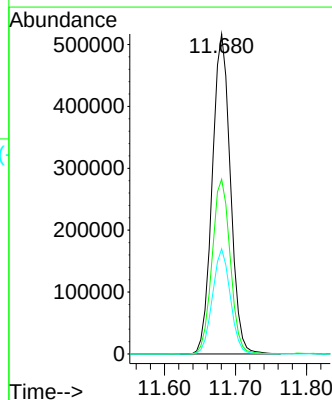
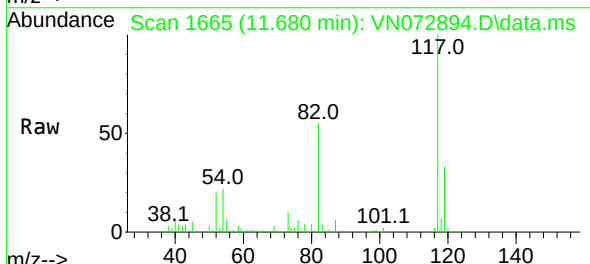
Instrument :
MSVOA_N
ClientSampleId :

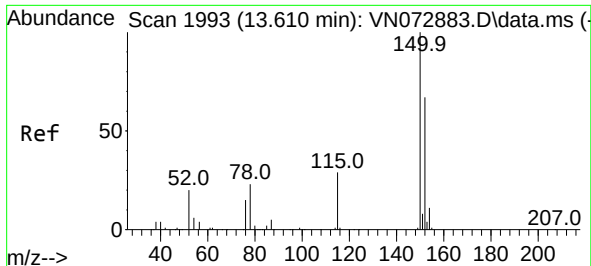
Tgt Ion: 95 Resp: 512803
Ion Ratio Lower Upper
95 100
174 76.9 0.0 167.6
176 74.9 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.680 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Tgt Ion: 117 Resp: 915710
Ion Ratio Lower Upper
117 100
82 54.6 44.2 66.2
119 32.9 25.4 38.0

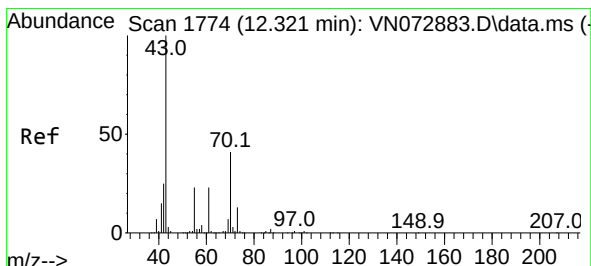
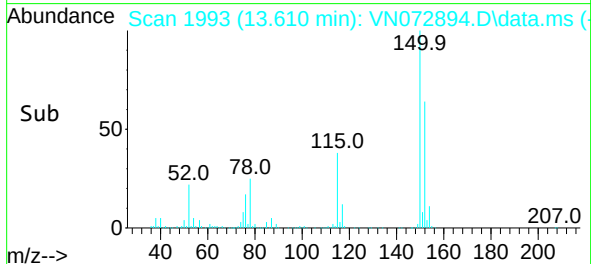
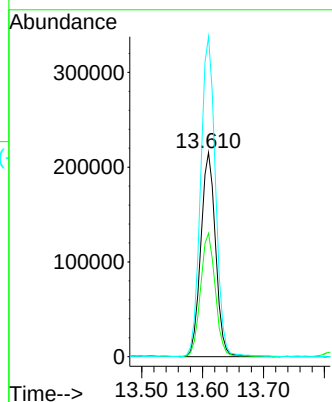
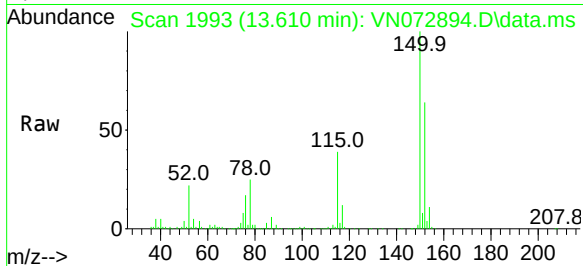




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.610 min Scan# 1993
Delta R.T. 0.000 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

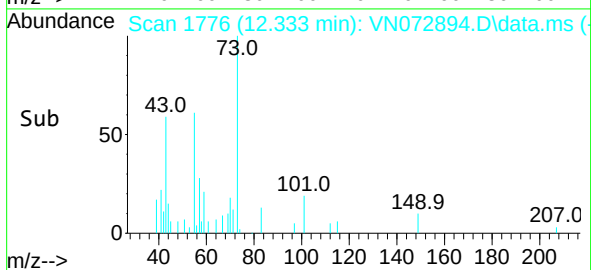
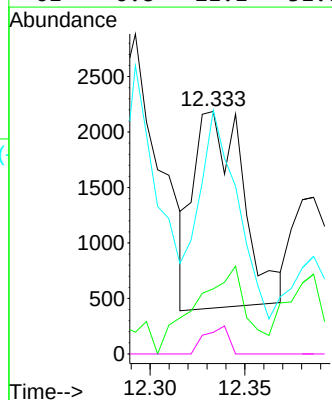
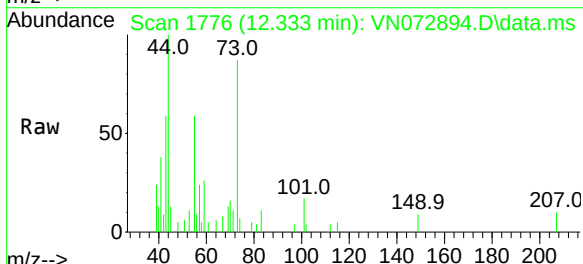
Instrument :
MSVOA_N
ClientSampleId :

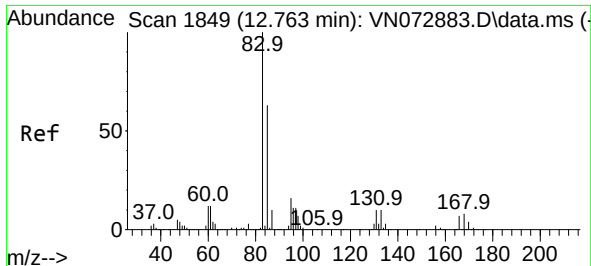
Tgt Ion:152 Resp: 362606
Ion Ratio Lower Upper
152 100
115 59.8 28.9 86.7
150 157.0 0.0 356.2



#74
N-ethyl acetate
Concen: 0.216 ug/l
RT: 12.333 min Scan# 1776
Delta R.T. 0.012 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Tgt Ion: 43 Resp: 3211
Ion Ratio Lower Upper
43 100
70 46.7 39.0 58.4
55 83.3 21.1 31.7#
61 6.8 21.1 31.7#

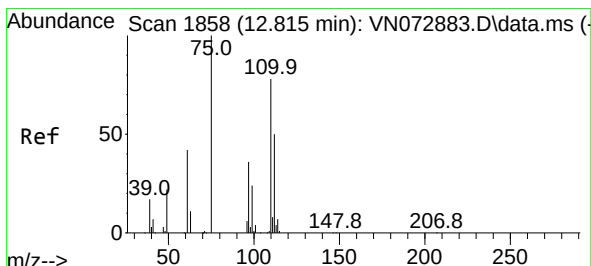
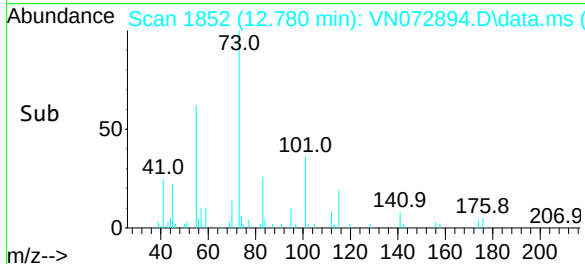
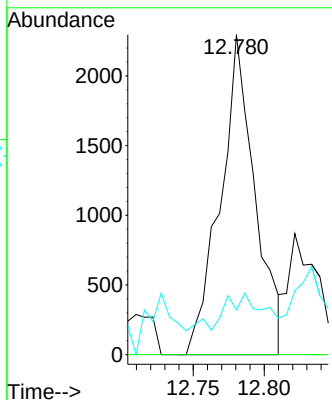
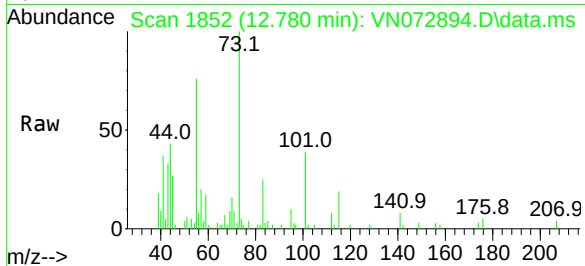




#75
 1,1,2,2-Tetrachloroethane
 Concen: 0.345 ug/l
 RT: 12.780 min Scan# 1852
 Delta R.T. 0.018 min
 Lab File: VN072894.D
 Acq: 16 Jun 2022 21:39

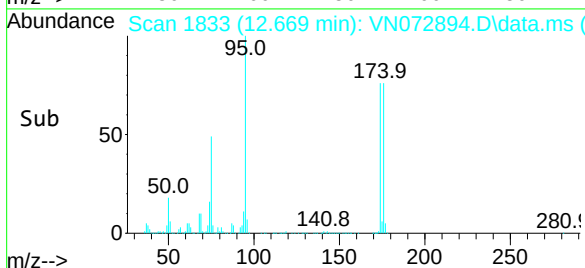
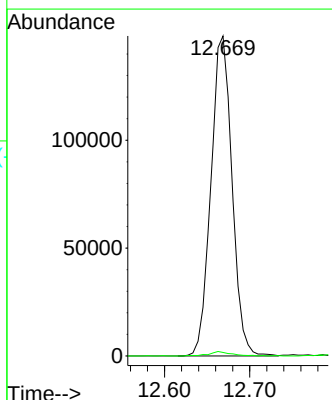
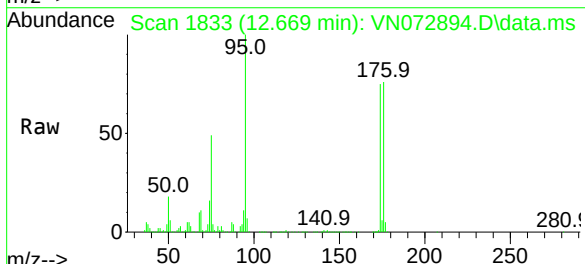
Instrument :
 MSVOA_N
 ClientSampleId :

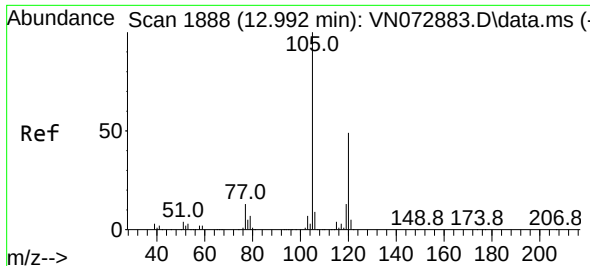
Tgt Ion: 83 Resp: 3903
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.3 15.9#
 85 24.4 32.3 96.9#



#76
 1,2,3-Trichloropropane
 Concen: 23.686 ug/l
 RT: 12.669 min Scan# 1833
 Delta R.T. -0.147 min
 Lab File: VN072894.D
 Acq: 16 Jun 2022 21:39

Tgt Ion: 75 Resp: 255293
 Ion Ratio Lower Upper
 75 100
 77 1.5 98.5 295.5#

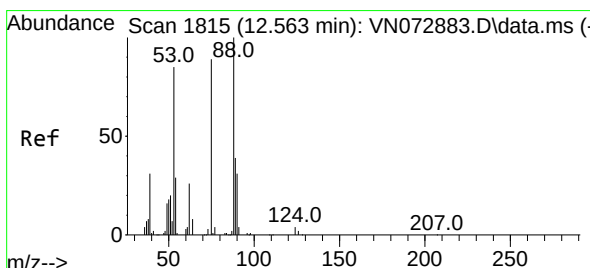
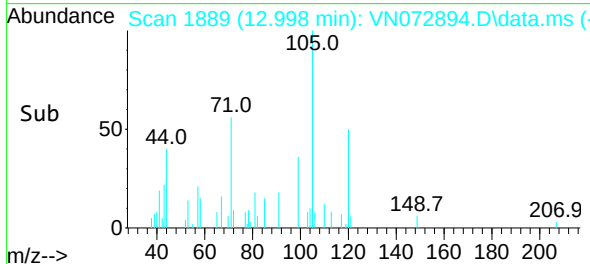
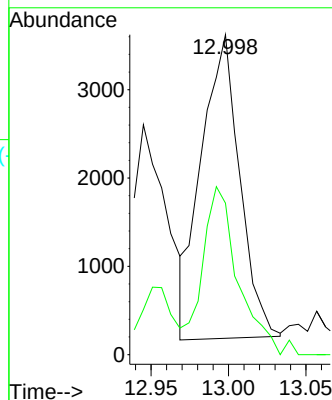
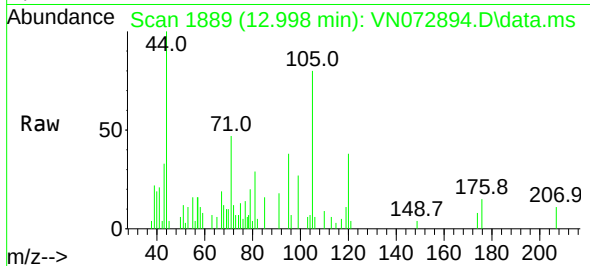




#80
1,3,5-Trimethylbenzene
Concen: 0.214 ug/l
RT: 12.998 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

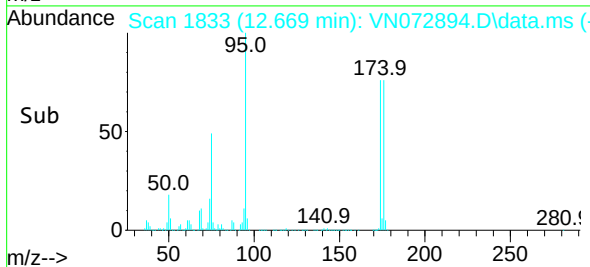
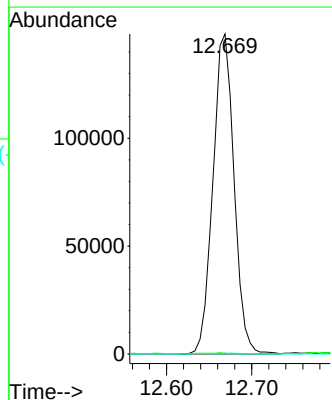
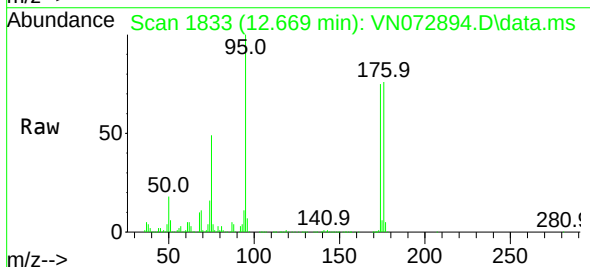
Instrument :
MSVOA_N
ClientSampleId :

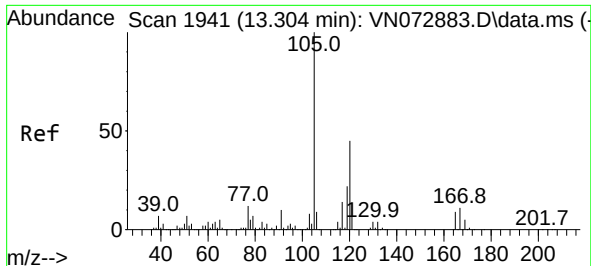
Tgt Ion:105 Resp: 5919
Ion Ratio Lower Upper
105 100
120 52.0 24.9 74.7



#81
trans-1,4-Dichloro-2-butene
Concen: 67.463 ug/l
RT: 12.669 min Scan# 1833
Delta R.T. 0.106 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Tgt Ion: 75 Resp: 255293
Ion Ratio Lower Upper
75 100
53 0.5 78.0 117.0#
89 0.1 37.2 55.8#

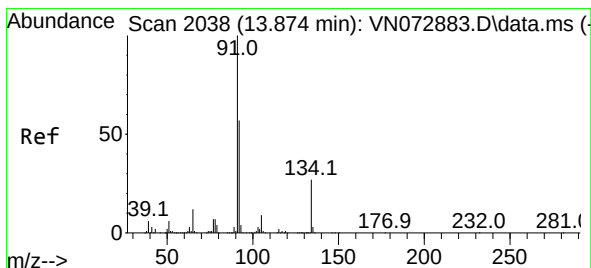
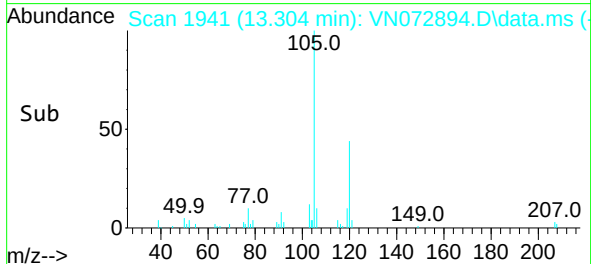
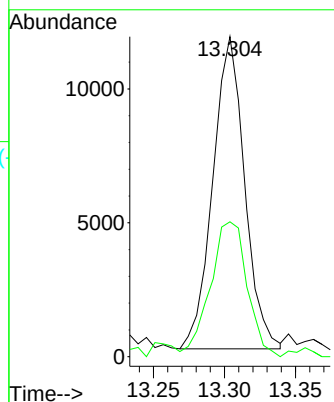
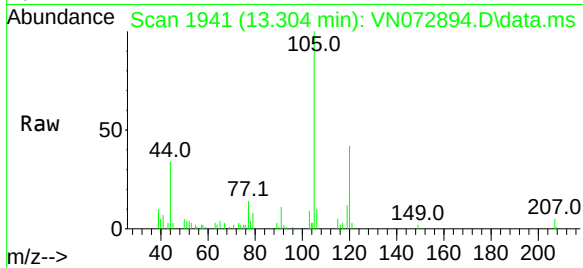




#84
1,2,4-Trimethylbenzene
Concen: 0.682 ug/l
RT: 13.304 min Scan# 1941
Delta R.T. 0.000 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

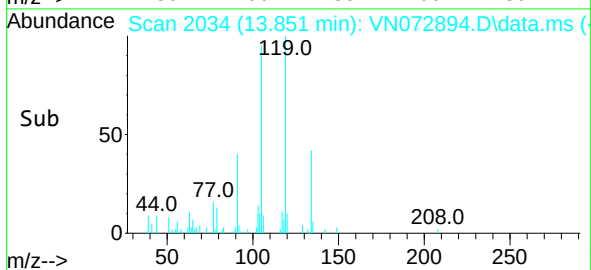
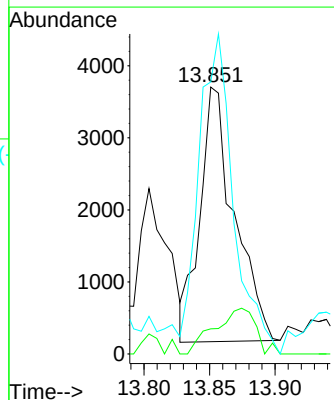
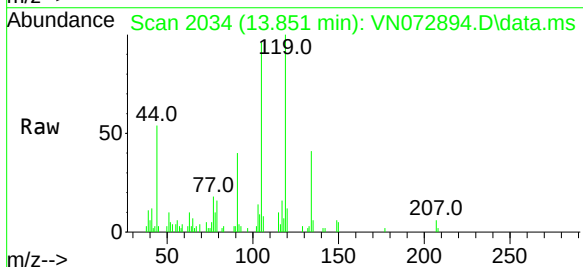
Instrument :
MSVOA_N
ClientSampleId :

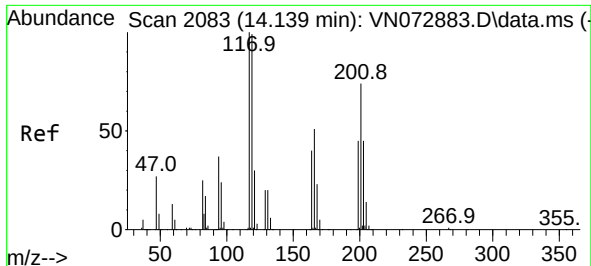
Tgt Ion:105 Resp: 18177
Ion Ratio Lower Upper
105 100
120 49.8 23.3 69.8



#89
n-Butylbenzene
Concen: 0.324 ug/l
RT: 13.851 min Scan# 2034
Delta R.T. -0.023 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Tgt Ion: 91 Resp: 6469
Ion Ratio Lower Upper
91 100
92 0.0 26.9 80.7#
134 129.2 13.6 40.8#

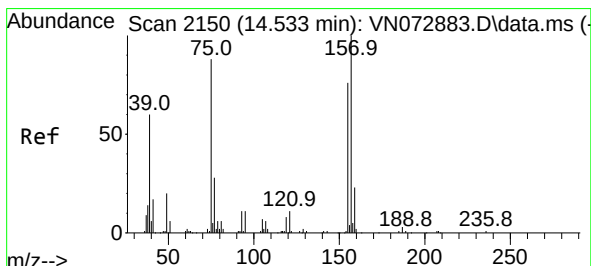
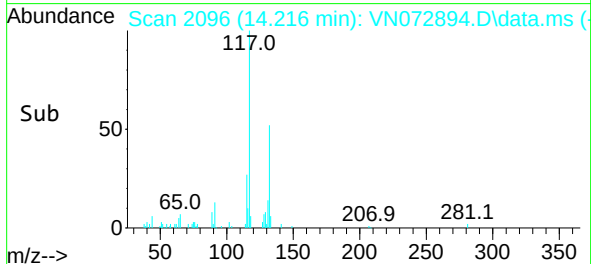
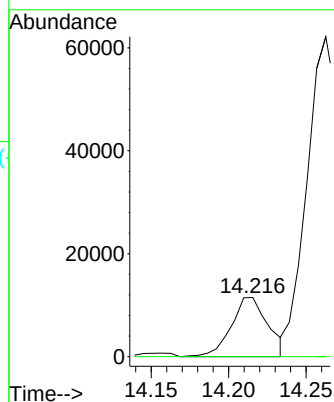
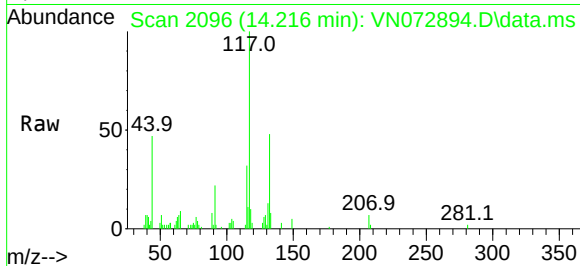




#90
Hexachloroethane
Concen: 3.370 ug/l
RT: 14.216 min Scan# 2083
Delta R.T. 0.077 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

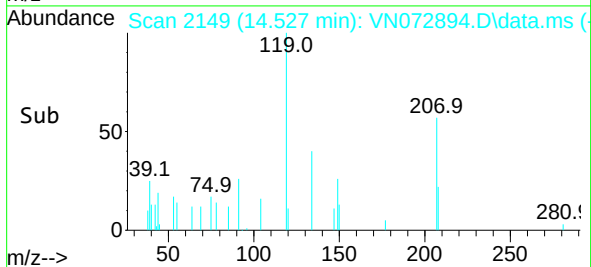
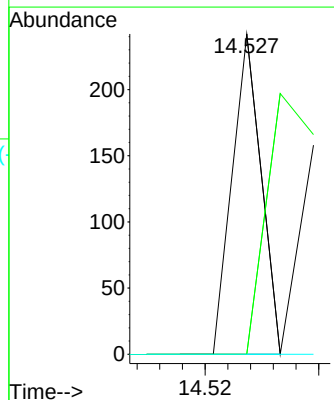
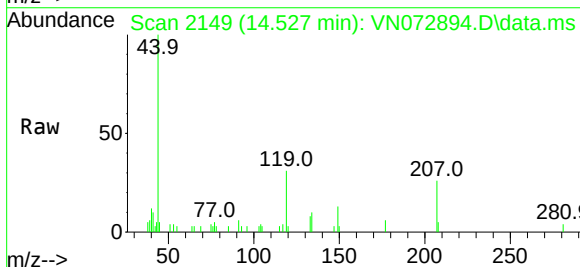
Instrument :
MSVOA_N
ClientSampleId :

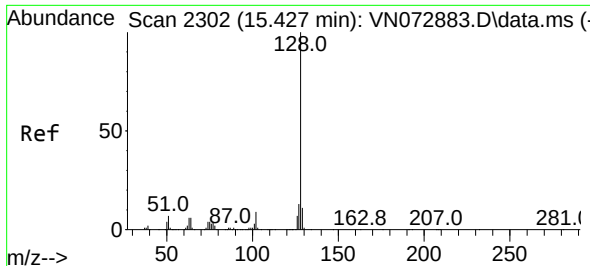
Tgt Ion:117 Resp: 18910
Ion Ratio Lower Upper
117 100
201 0.0 40.6 122.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.527 min Scan# 2149
Delta R.T. -0.006 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Tgt Ion: 75 Resp: 85
Ion Ratio Lower Upper
75 100
155 150.6 44.9 134.5#
157 0.0 59.0 176.8#

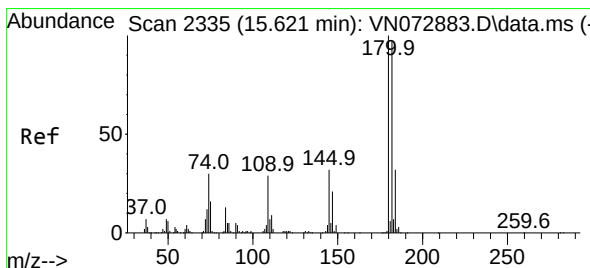
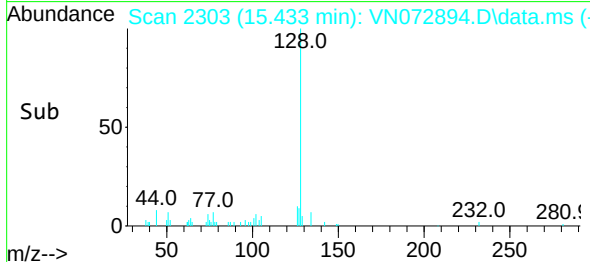
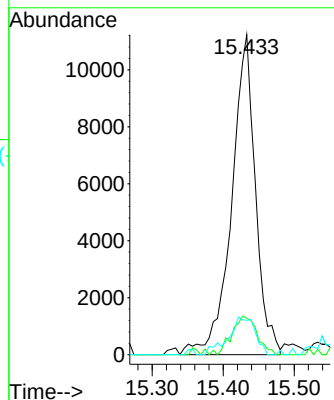
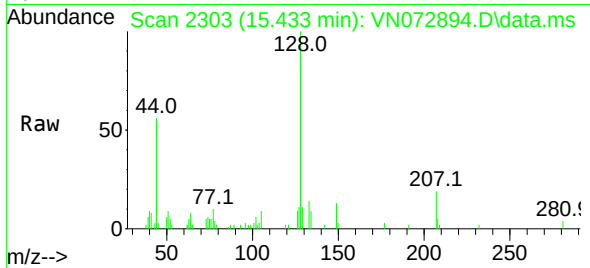




#95
Naphthalene
Concen: 1.144 ug/l
RT: 15.433 min Scan# 2303
Delta R.T. 0.006 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 26273
Ion Ratio Lower Upper
128 100
127 12.5 10.3 15.5
129 13.1 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 0.230 ug/l
RT: 15.627 min Scan# 2336
Delta R.T. 0.006 min
Lab File: VN072894.D
Acq: 16 Jun 2022 21:39

Tgt Ion:180 Resp: 1518
Ion Ratio Lower Upper
180 100
182 90.9 47.8 143.3
145 0.0 15.5 46.5#

