

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121421\
 Data File : VN070081.D
 Acq On : 14 Dec 2021 19:40
 Operator : JC/MD
 Sample : M4965-32
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 15 05:21:53 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 03 08:46:47 2021
 Response via : Initial Calibration

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

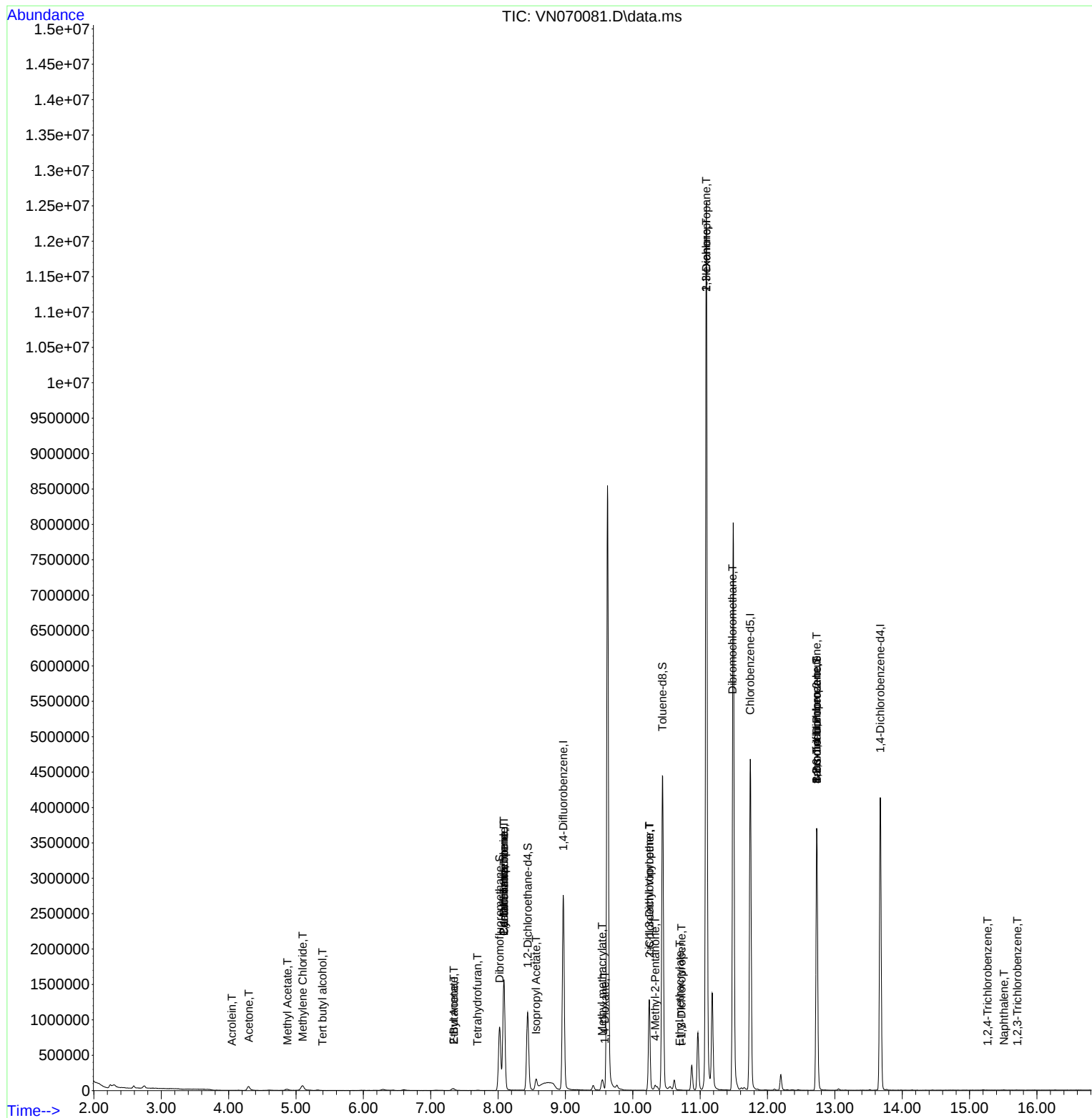
Internal Standards						
1) Pentafluorobenzene	8.088	168	1166358	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2282759	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2596679	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	1087745	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	951053	52.811	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 105.620%	
35) Dibromofluoromethane	8.024	113	660257	46.176	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 92.360%	
50) Toluene-d8	10.441	98	3015307	52.519	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 105.040%	
62) 4-Bromofluorobenzene	12.731	95	1292779	62.153	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 124.300%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.393	59	721	0.212	ug/l #	71
13) Acrolein	4.047	56	787	0.271	ug/l #	76
16) Acetone	4.299	43	105365	9.726	ug/l	97
18) Methyl Acetate	4.873	43	36883	1.128	ug/l #	67
20) Methylene Chloride	5.098	84	46144	3.204	ug/l #	77
25) 2-Butanone	7.343	43	22798	1.549	ug/l #	88
29) Tetrahydrofuran	7.694	42	2429	0.272	ug/l #	58
31) Cyclohexane	8.086	56	30509	1.217	ug/l #	33
36) 1,1-Dichloropropene	8.086	75	99360	4.572	ug/l #	48
37) Ethyl Acetate	7.343	43	22798	0.705	ug/l #	74
38) Carbon Tetrachloride	8.086	117	117483	5.513	ug/l #	16
43) Isopropyl Acetate	8.566	43	202739	4.236	ug/l #	79
48) Methyl methacrylate	9.545	41	46550	2.084	ug/l #	8
49) 1,4-Dioxane	9.582	88	132	0.329	ug/l #	27
51) 4-Methyl-2-Pentanone	10.333	43	40004	1.288	ug/l	95
53) t-1,3-Dichloropropene	10.725	75	129	2.799	ug/l #	43
54) cis-1,3-Dichloropropene	10.245	75	207945	9.138	ug/l #	71
56) Ethyl methacrylate	10.698	69	702	2.301	ug/l #	24
57) 1,3-Dichloropropane	11.092	76	122911	4.266	ug/l #	43
58) 2-Chloroethyl Vinyl ether	10.247	63	84	18.398	ug/l #	45
59) 2-Hexanone	11.092	43	2220882	94.551	ug/l #	48
60) Dibromochloromethane	11.481	129	438	2.400	ug/l #	11
71) Bromoform	12.731	173	6087	3.094	ug/l #	1
76) 1,2,3-Trichloropropane	12.731	75	708015	22.697	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	708015	72.312	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.268	180	661	2.913	ug/l #	74
95) Naphthalene	15.512	128	3453	4.045	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.711	180	274	2.451	ug/l	73

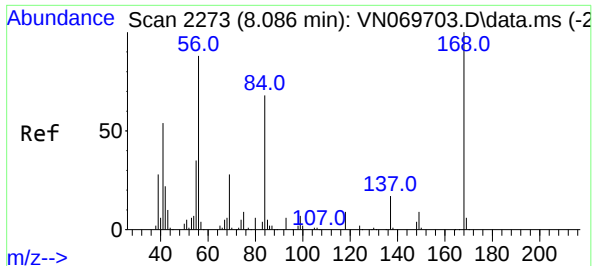
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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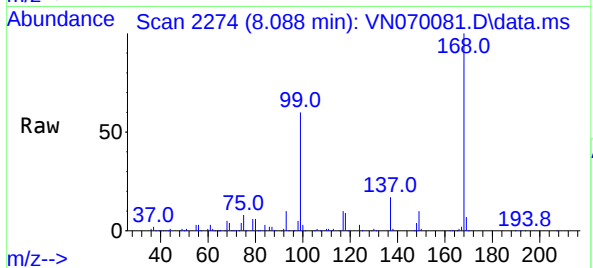
Quant Time: Dec 15 05:21:53 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N120221W.M
Quant Title : SW846 8260
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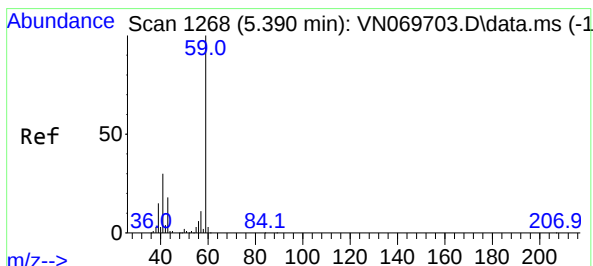
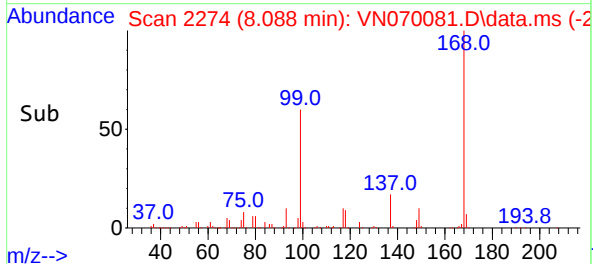
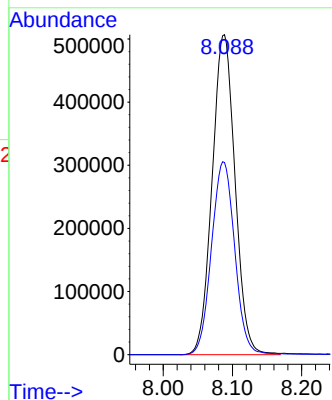


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 21
Delta R.T. 0.002 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Instrument :
MSVOA_N
ClientSampleId :

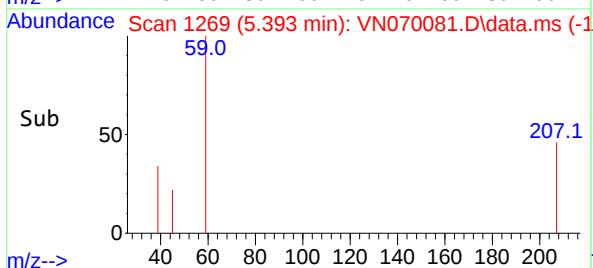
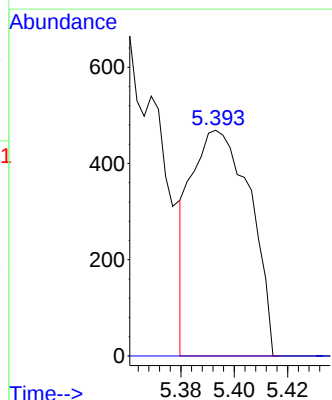
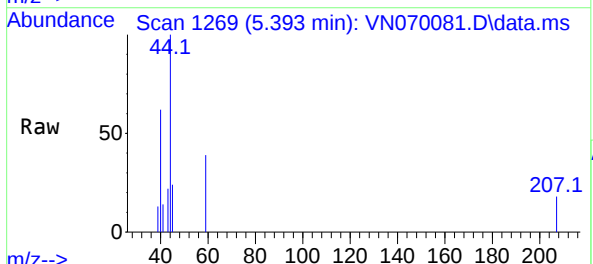


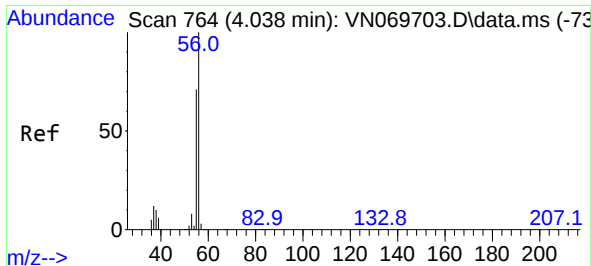
Tgt Ion:168 Resp: 1166358
Ion Ratio Lower Upper
168 100
99 60.1 41.3 61.9



#11
Tert butyl alcohol
Concen: 0.212 ug/l
RT: 5.393 min Scan# 1269
Delta R.T. 0.003 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Tgt Ion: 59 Resp: 721
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

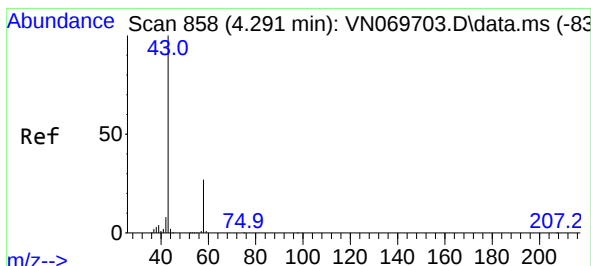
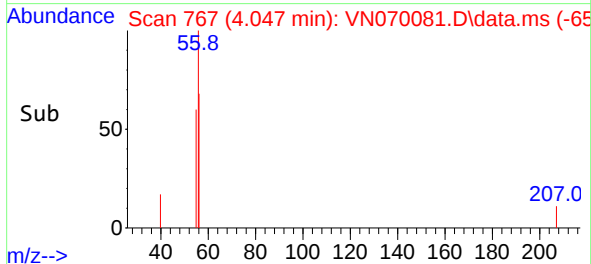
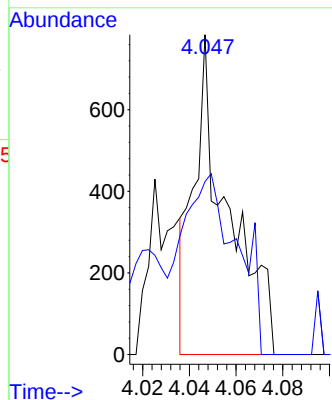
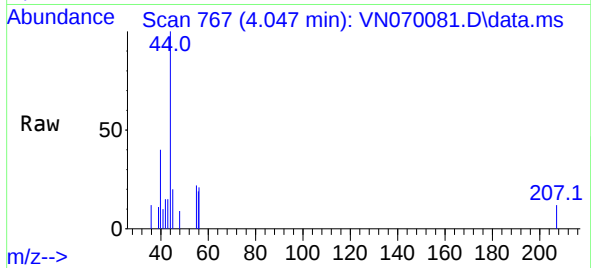




#13
Acrolein
Concen: 0.271 ug/l
RT: 4.047 min Scan# 767
Delta R.T. 0.008 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

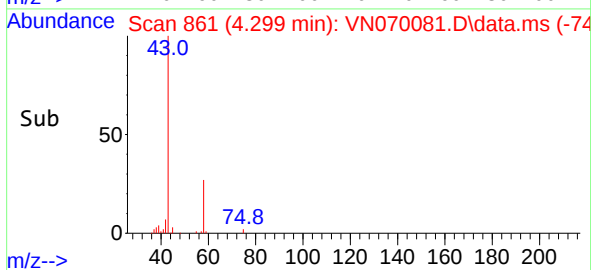
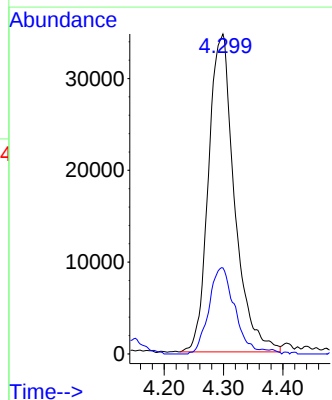
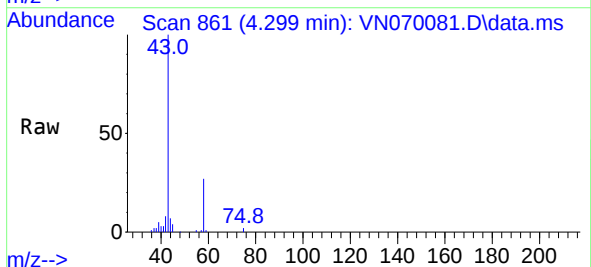
Instrument :
MSVOA_N
ClientSampleId :

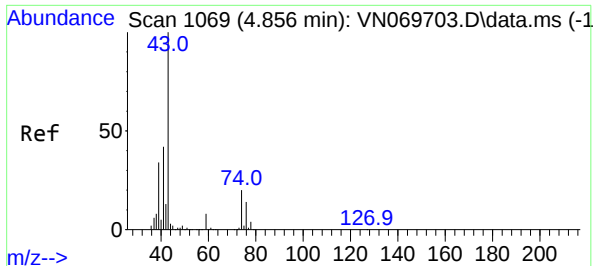
Tgt Ion: 56 Resp: 787
Ion Ratio Lower Upper
56 100
55 90.9 56.6 85.0#



#16
Acetone
Concen: 9.726 ug/l
RT: 4.299 min Scan# 861
Delta R.T. 0.008 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Tgt Ion: 43 Resp: 105365
Ion Ratio Lower Upper
43 100
58 27.1 23.1 34.7





#18

Methyl Acetate

Concen: 1.128 ug/l

RT: 4.873 min Scan# 1

Delta R.T. 0.016 min

Lab File: VN070081.D

Acq: 14 Dec 2021 19:40

Instrument :

MSVOA_N

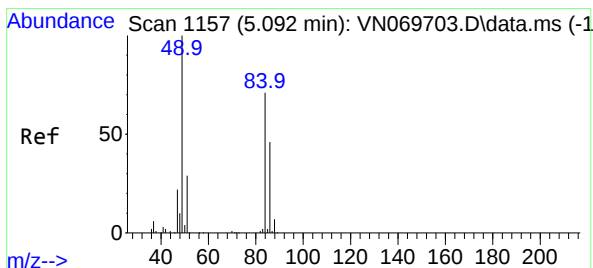
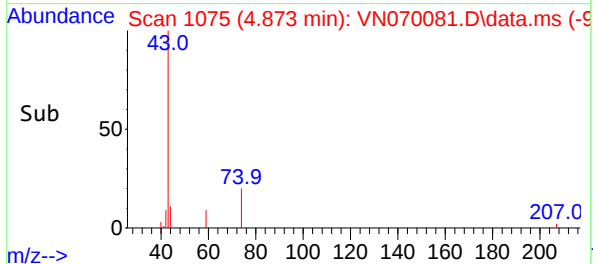
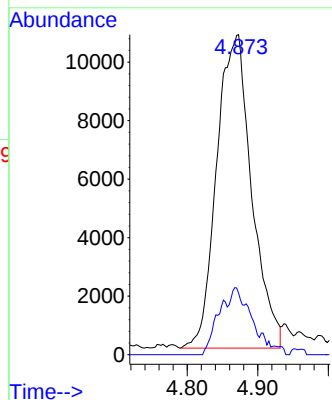
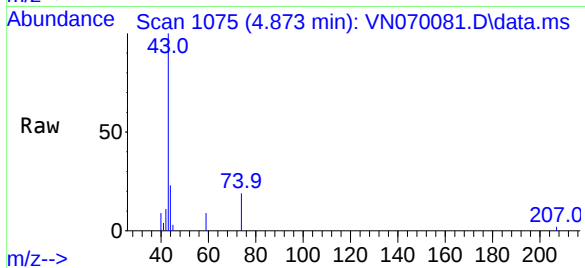
ClientSampleId :

Tgt Ion: 43 Resp: 36883

Ion Ratio Lower Upper

43 100

74 8.0 19.4 29.2#



#20

Methylene Chloride

Concen: 3.204 ug/l

RT: 5.098 min Scan# 1159

Delta R.T. 0.006 min

Lab File: VN070081.D

Acq: 14 Dec 2021 19:40

Tgt Ion: 84 Resp: 46144

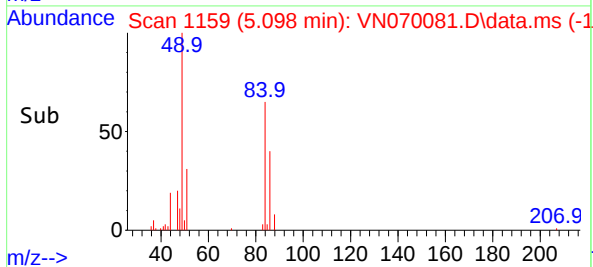
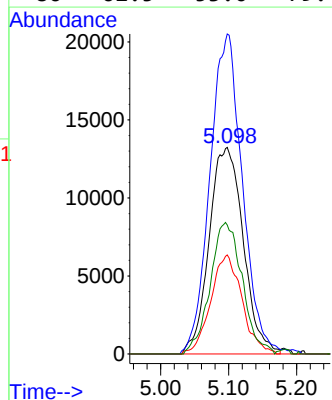
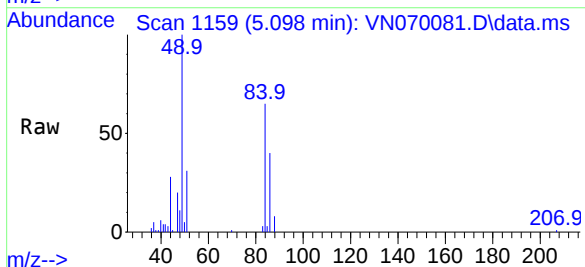
Ion Ratio Lower Upper

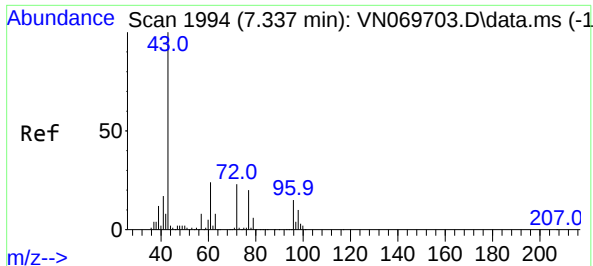
84 100

49 155.0 93.5 140.3#

51 48.0 29.4 44.2#

86 62.5 53.0 79.4

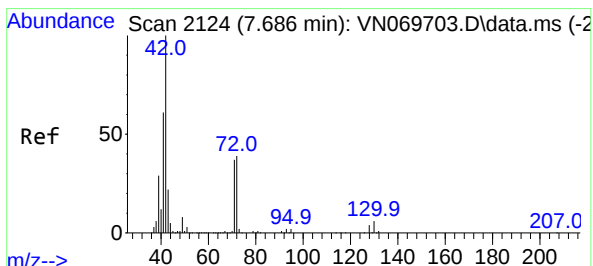
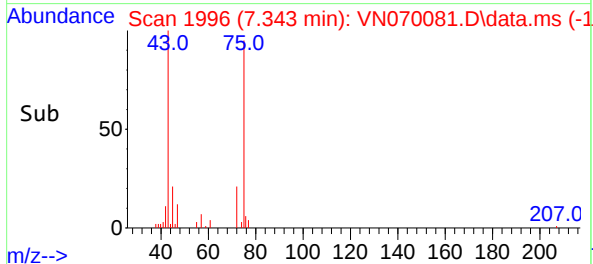
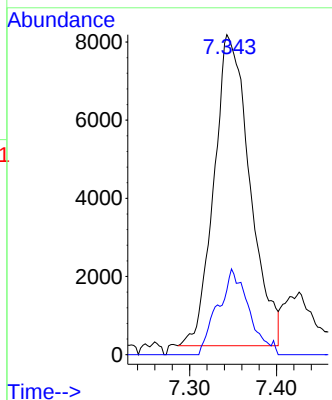
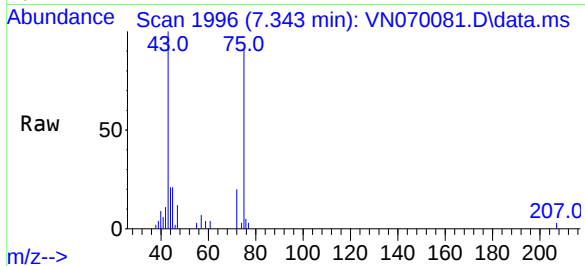




#25
2-Butanone
Concen: 1.549 ug/l
RT: 7.343 min Scan# 1996
Delta R.T. 0.006 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

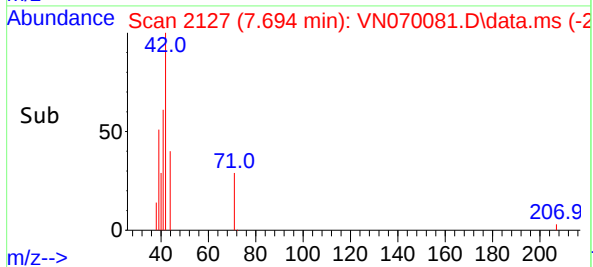
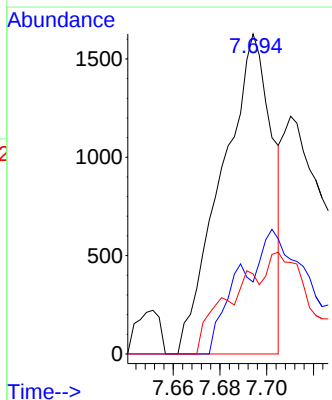
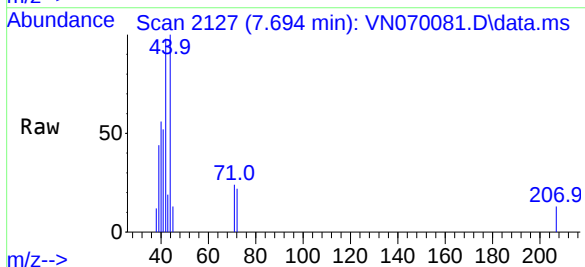
Instrument :
MSVOA_N
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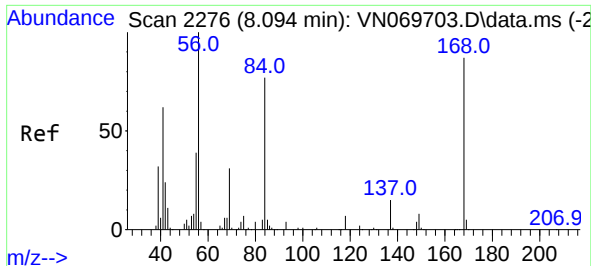
Tgt Ion: 43 Resp: 22798
Ion Ratio Lower Upper
43 100
72 20.7 21.7 32.5#



#29
Tetrahydrofuran
Concen: 0.272 ug/l
RT: 7.694 min Scan# 2127
Delta R.T. 0.008 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

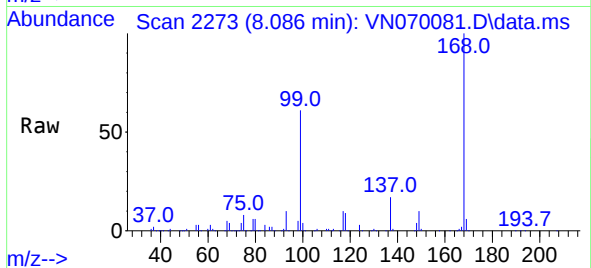
Tgt Ion: 42 Resp: 2429
Ion Ratio Lower Upper
42 100
72 15.1 36.3 54.5#
71 19.4 34.7 52.1#



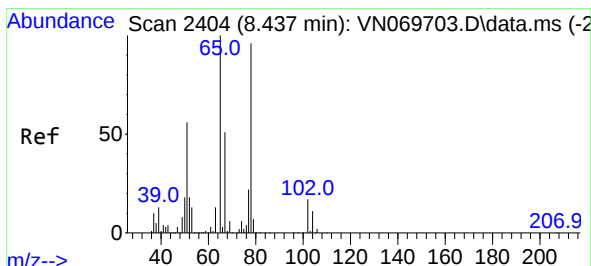
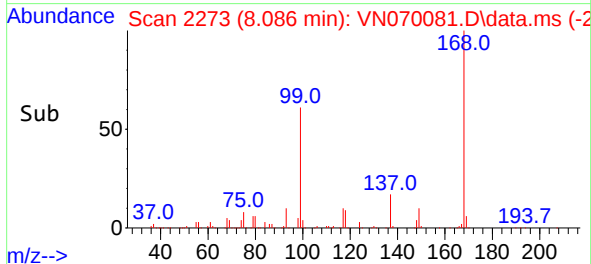
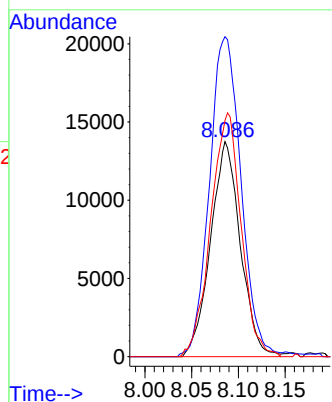


#31
Cyclohexane
Concen: 1.217 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.008 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Instrument :
MSVOA_N
ClientSampleId :

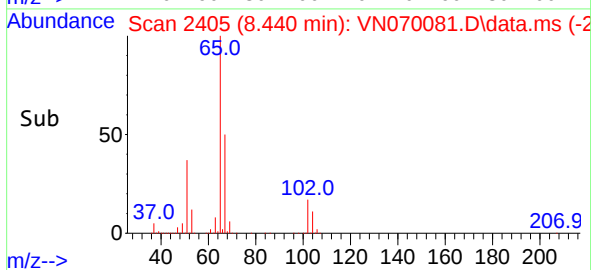
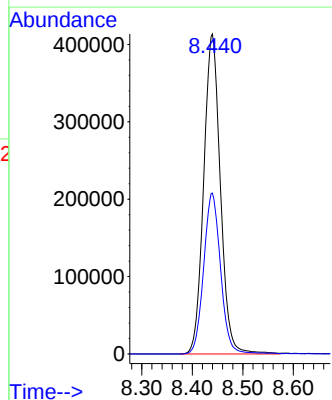
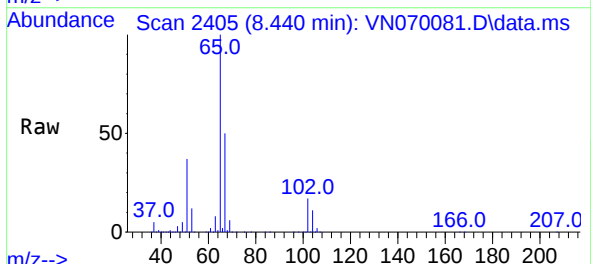


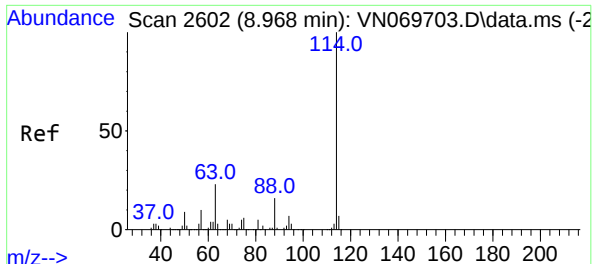
Tgt Ion: 56 Resp: 30509
Ion Ratio Lower Upper
56 100
69 147.5 27.1 40.7#
84 109.8 73.4 110.0



#33
1,2-Dichloroethane-d4
Concen: 52.811 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

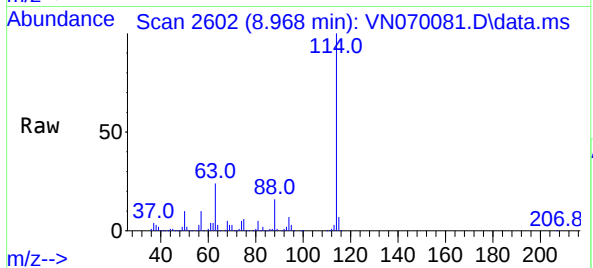
Tgt Ion: 65 Resp: 951053
Ion Ratio Lower Upper
65 100
67 50.6 0.0 103.0





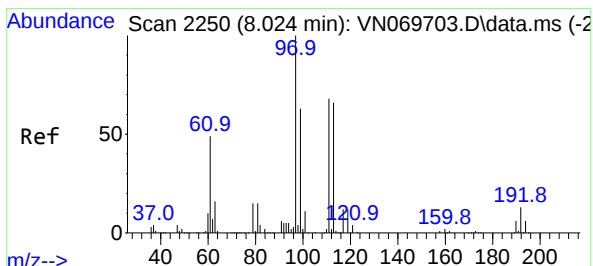
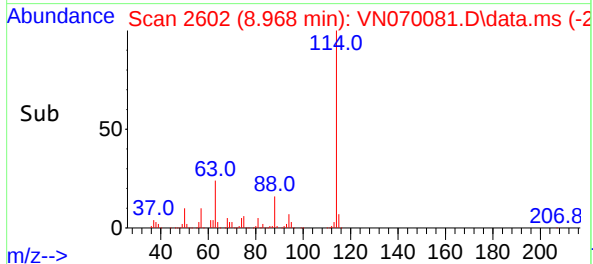
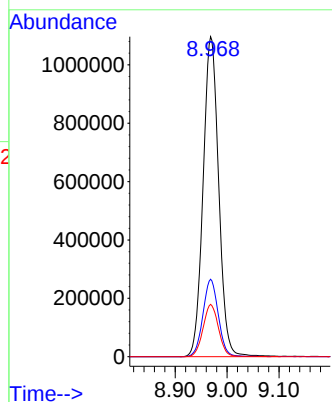
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 2602
Delta R.T. 0.000 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Instrument :
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Tgt Ion:114 Resp: 2282759

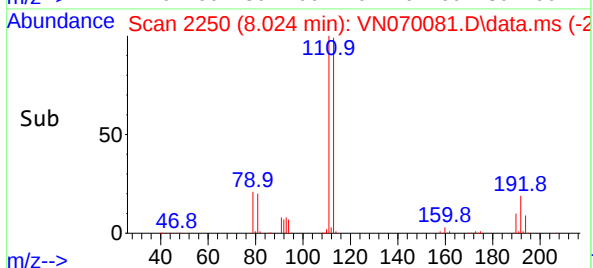
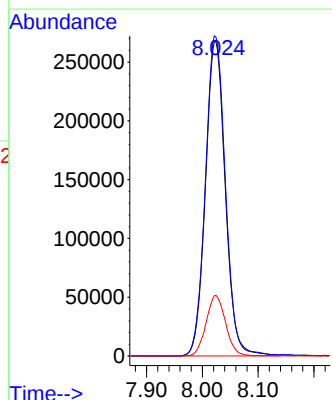
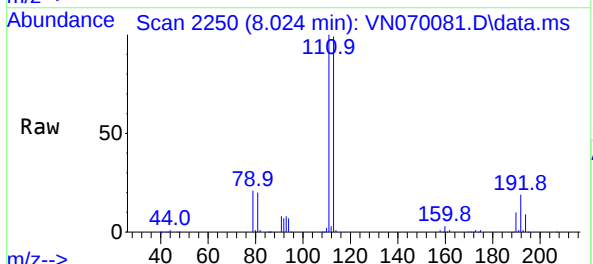
Ion	Ratio	Lower	Upper
114	100		
63	24.2	0.0	37.8
88	16.3	0.0	27.4

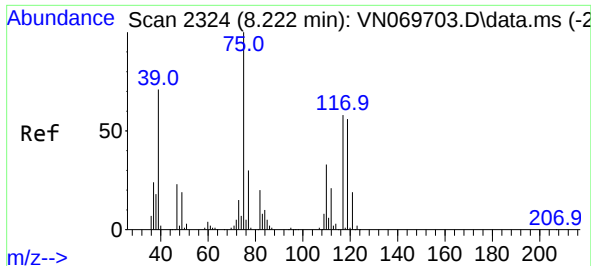


#35
Dibromofluoromethane
Concen: 46.176 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.000 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Tgt Ion:113 Resp: 660257

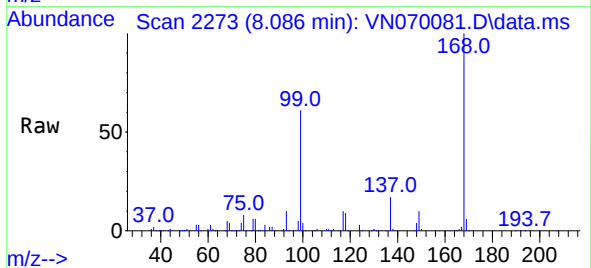
Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.2
192	18.9	16.9	25.3



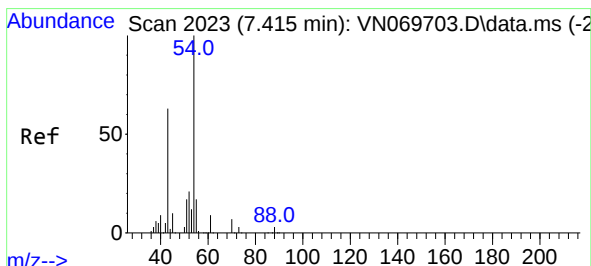
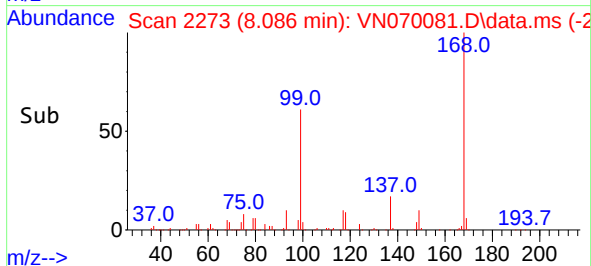
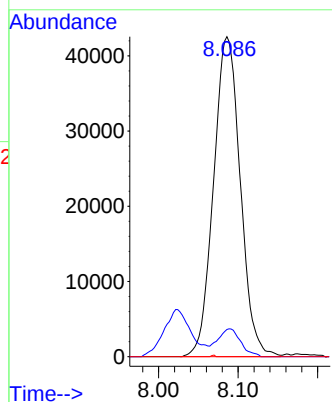


#36
1,1-Dichloropropene
Concen: 4.572 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.137 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Instrument :
MSVOA_N
ClientSampleId :

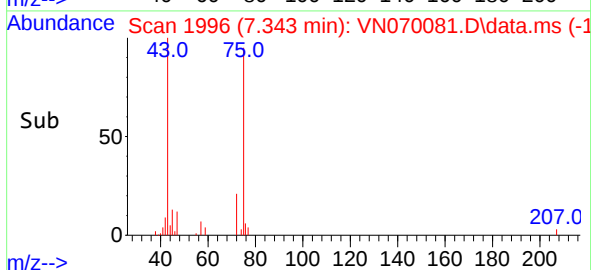
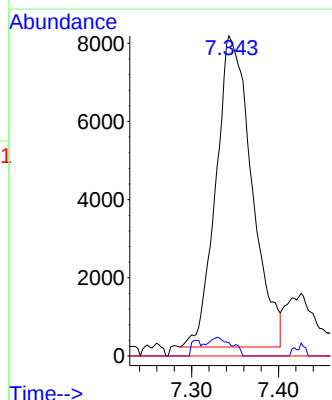
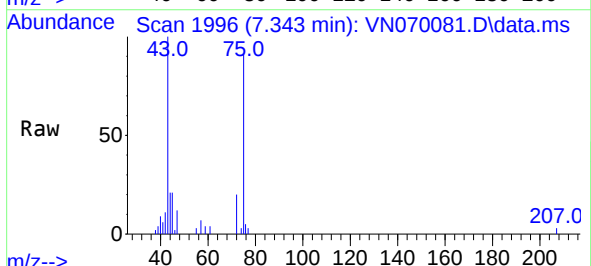


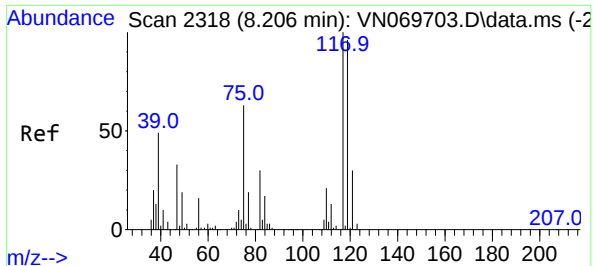
Tgt Ion: 75 Resp: 99360
Ion Ratio Lower Upper
75 100
110 7.5 18.4 55.2#
77 0.1 24.4 36.6#



#37
Ethyl Acetate
Concen: 0.705 ug/l
RT: 7.343 min Scan# 1996
Delta R.T. -0.072 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

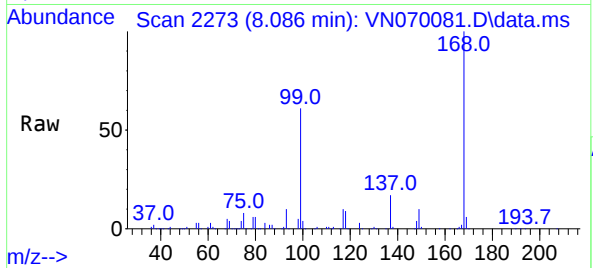
Tgt Ion: 43 Resp: 22798
Ion Ratio Lower Upper
43 100
61 3.7 11.5 17.3#
70 0.0 7.9 11.9#



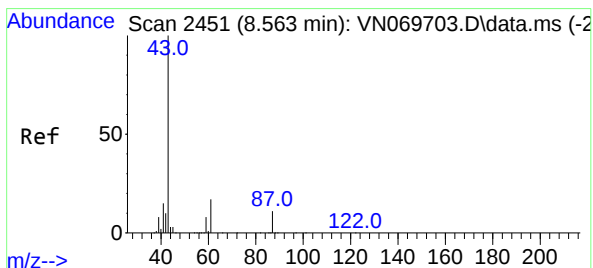
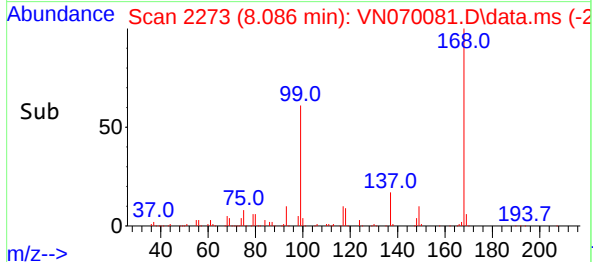
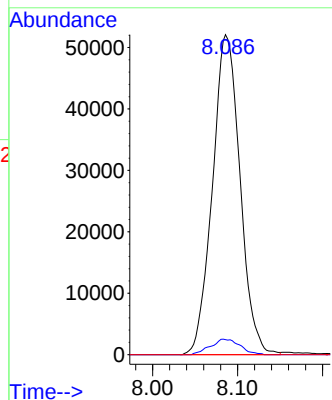


#38
Carbon Tetrachloride
Concen: 5.513 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.120 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Instrument :
MSVOA_N
ClientSampleId :

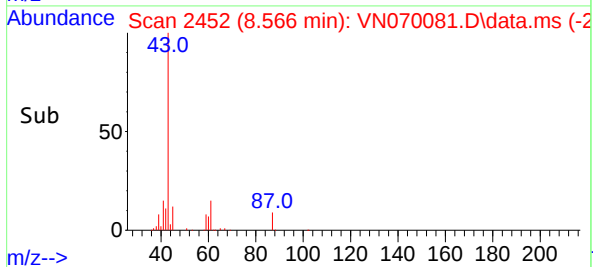
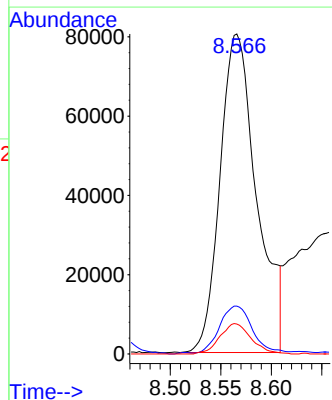
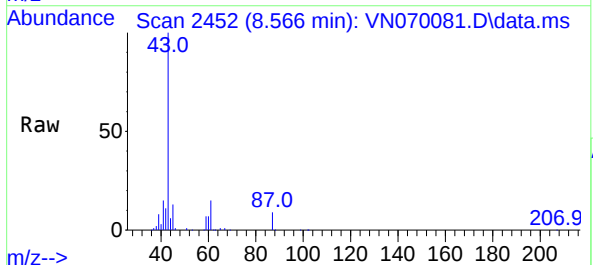


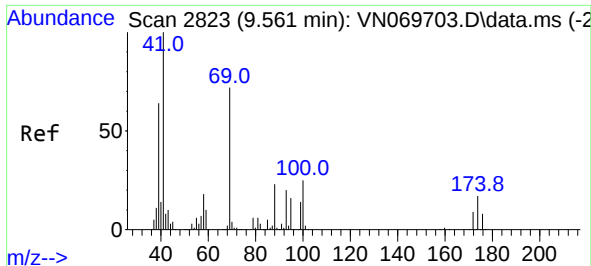
Tgt Ion:117 Resp: 117483
Ion Ratio Lower Upper
117 100
119 4.7 76.1 114.1#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 4.236 ug/l
RT: 8.566 min Scan# 2452
Delta R.T. 0.003 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Tgt Ion: 43 Resp: 202739
Ion Ratio Lower Upper
43 100
61 13.1 20.4 30.6#
87 8.2 11.2 16.8#

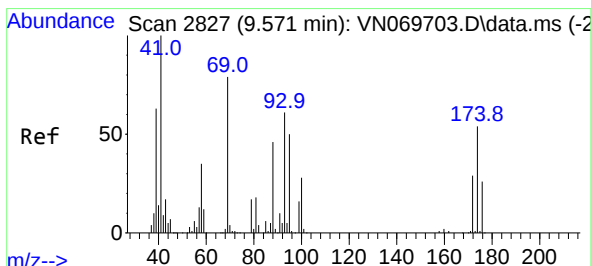
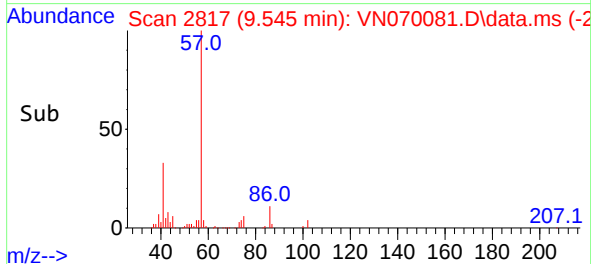
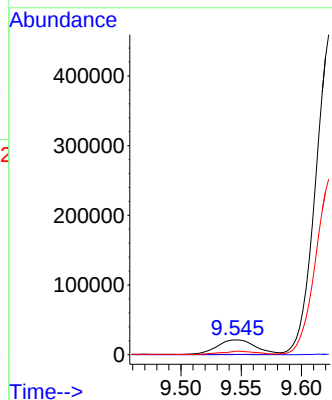
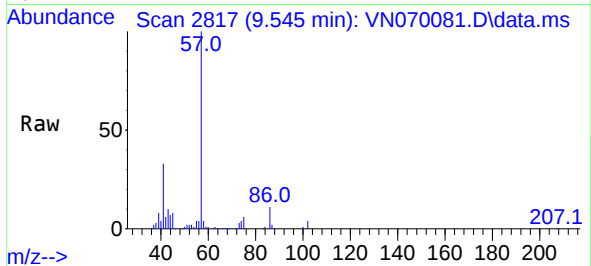




#48
Methyl methacrylate
Concen: 2.084 ug/l
RT: 9.545 min Scan# 2817
Delta R.T. -0.016 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

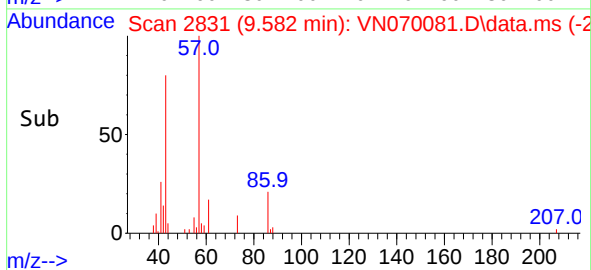
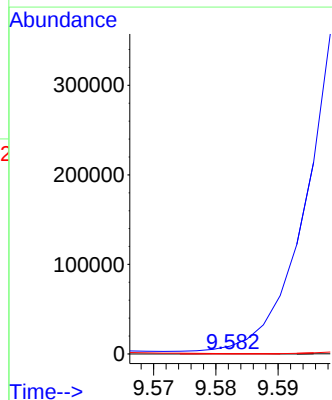
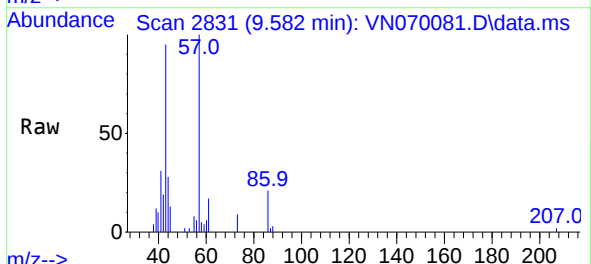
Instrument :
MSVOA_N
ClientSampleId :

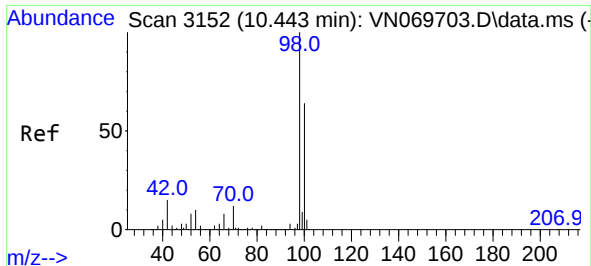
Tgt Ion: 41 Resp: 46550
Ion Ratio Lower Upper
41 100
69 0.4 72.4 108.6#
39 0.0 58.4 87.6#



#49
1,4-Dioxane
Concen: 0.329 ug/l
RT: 9.582 min Scan# 2831
Delta R.T. 0.011 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Tgt Ion: 88 Resp: 132
Ion Ratio Lower Upper
88 100
43 0.0 23.4 35.2#
58 0.0 50.6 75.8#

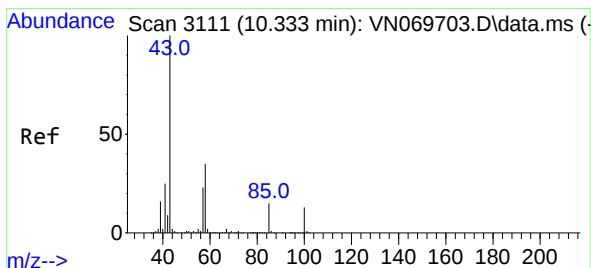
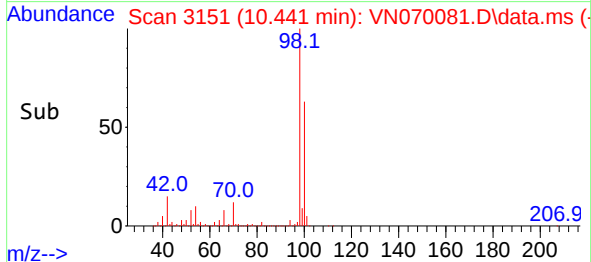
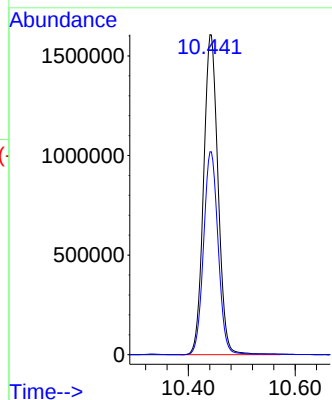
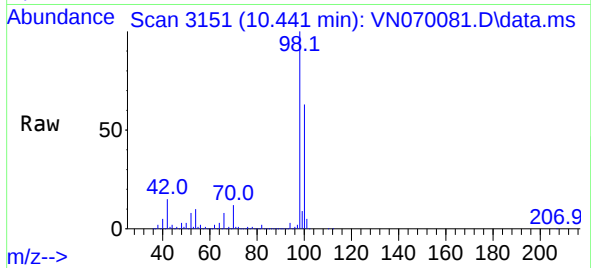




#50
Toluene-d8
Concen: 52.519 ug/l
RT: 10.441 min Scan# 3152
Delta R.T. -0.002 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

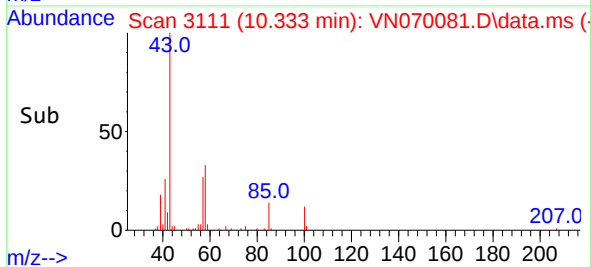
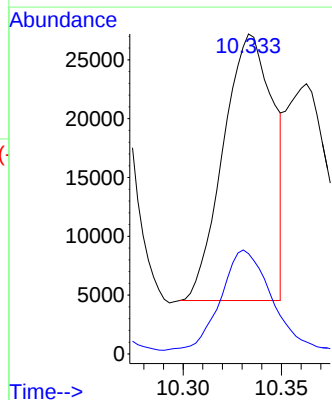
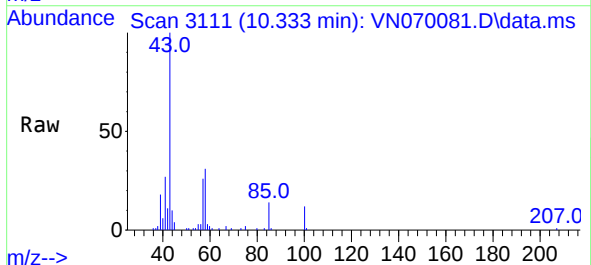
Instrument :
MSVOA_N
ClientSampleId :

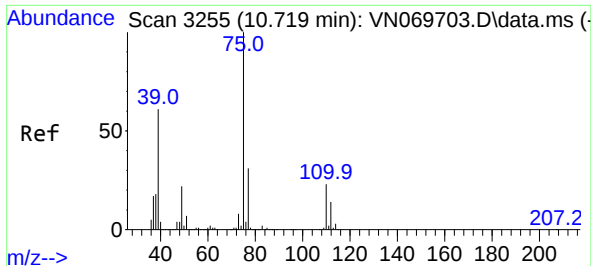
Tgt Ion: 98 Resp: 3015307
Ion Ratio Lower Upper
98 100
100 63.7 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 1.288 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.000 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Tgt Ion: 43 Resp: 40004
Ion Ratio Lower Upper
43 100
58 41.3 30.4 45.6

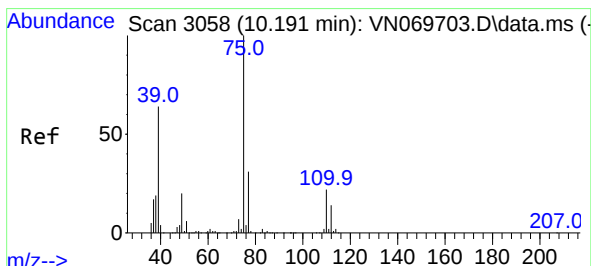
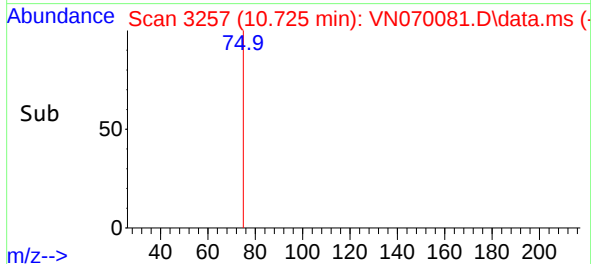
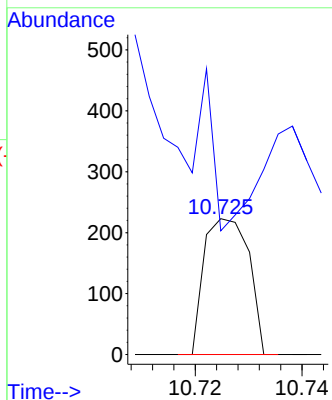
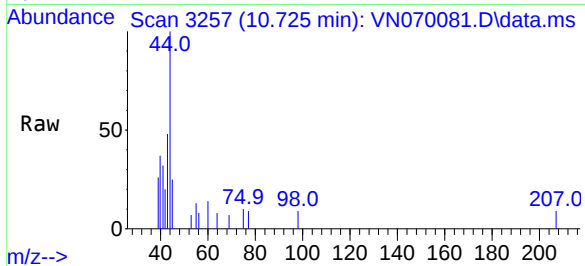




#53
t-1,3-Dichloropropene
Concen: 2.799 ug/l
RT: 10.725 min Scan# 31
Delta R.T. 0.006 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

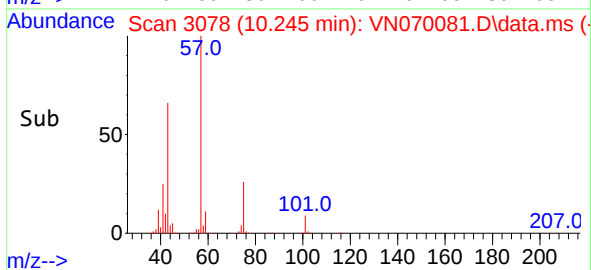
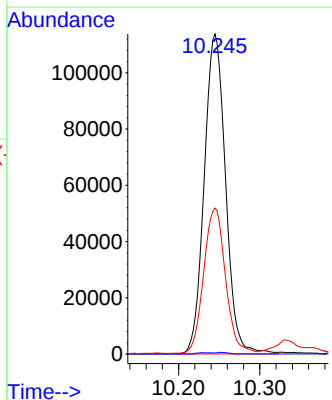
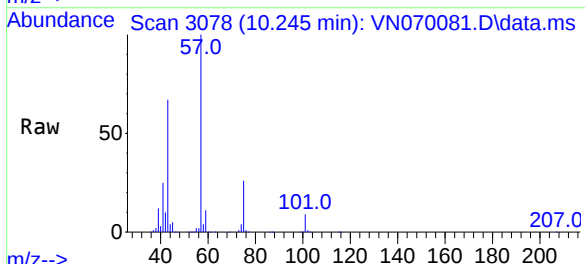
Instrument :
MSVOA_N
ClientSampleId :

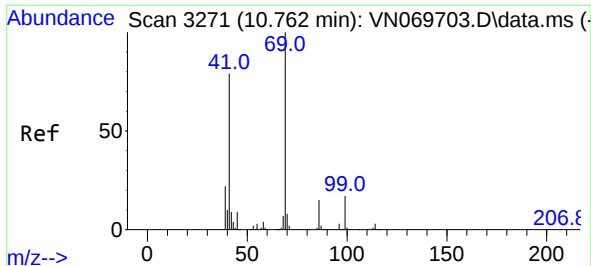
Tgt Ion: 75 Resp: 129
Ion Ratio Lower Upper
75 100
77 0.0 25.6 38.4#



#54
cis-1,3-Dichloropropene
Concen: 9.138 ug/l
RT: 10.245 min Scan# 3078
Delta R.T. 0.054 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

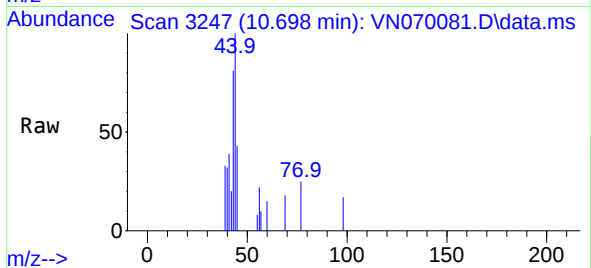
Tgt Ion: 75 Resp: 207945
Ion Ratio Lower Upper
75 100
77 0.3 26.4 39.6#
39 45.4 42.5 63.7



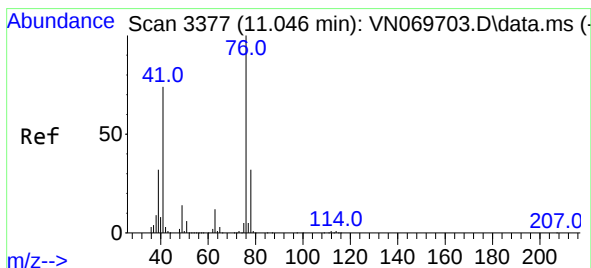
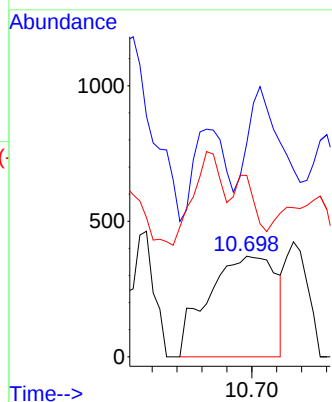


#56
Ethyl methacrylate
Concen: 2.301 ug/l
RT: 10.698 min Scan# 31
Delta R.T. -0.064 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Instrument :
MSVOA_N
ClientSampleId :

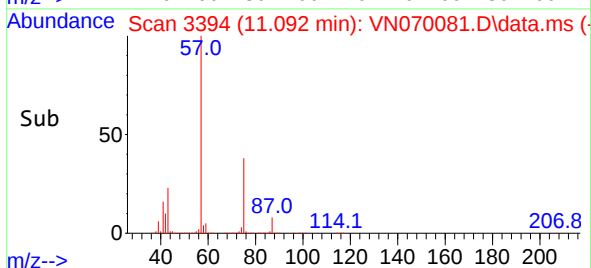
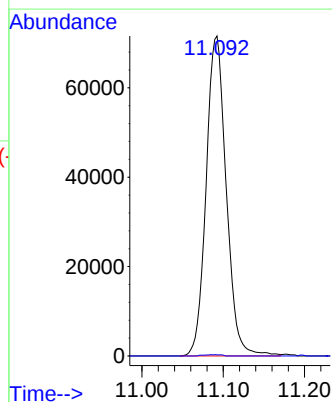
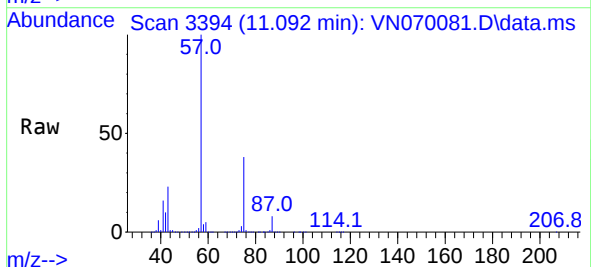


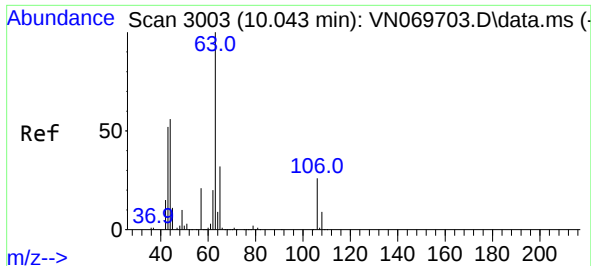
Tgt Ion: 69 Resp: 702
Ion Ratio Lower Upper
69 100
41 0.0 51.4 77.0#
39 0.0 34.6 52.0#



#57
1,3-Dichloropropane
Concen: 4.266 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.046 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Tgt Ion: 76 Resp: 122911
Ion Ratio Lower Upper
76 100
78 0.4 25.7 38.5#

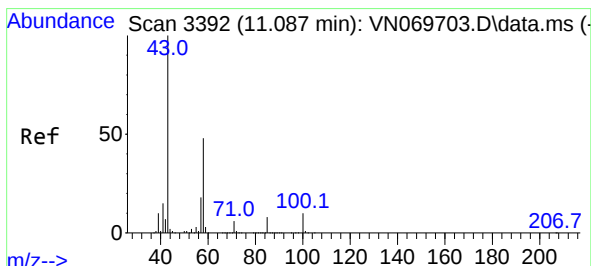
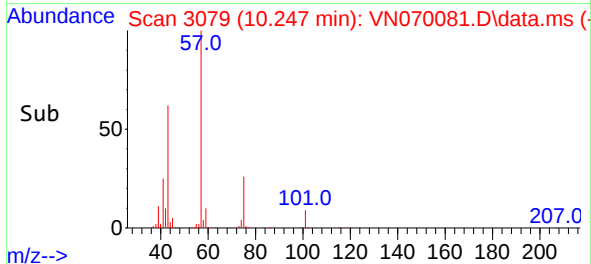
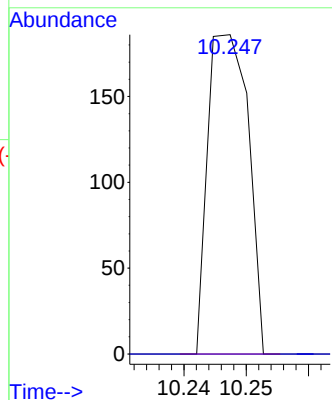
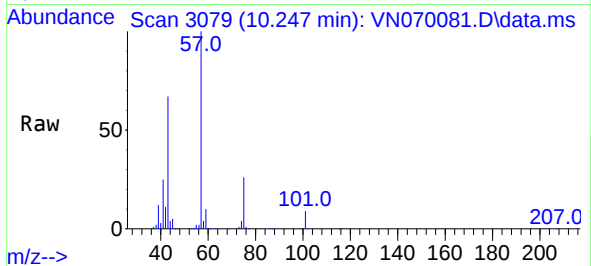




#58
2-Chloroethyl Vinyl ether
Concen: 18.398 ug/l
RT: 10.247 min Scan# 3003
Delta R.T. 0.204 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

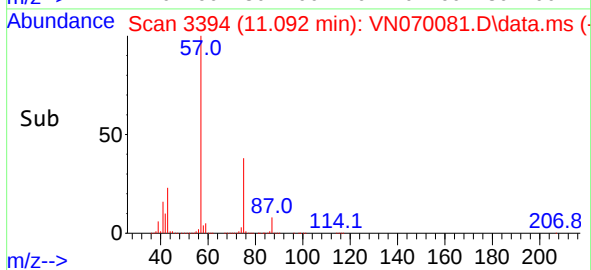
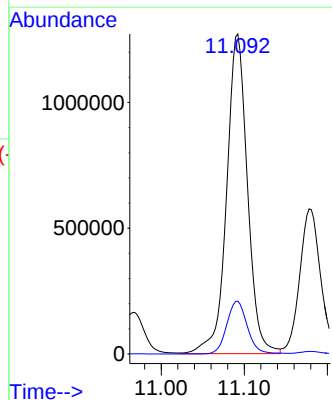
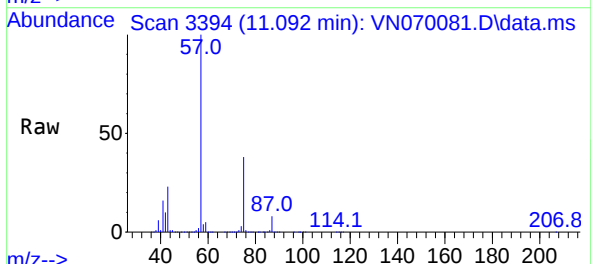
Instrument :
MSVOA_N
ClientSampleId :

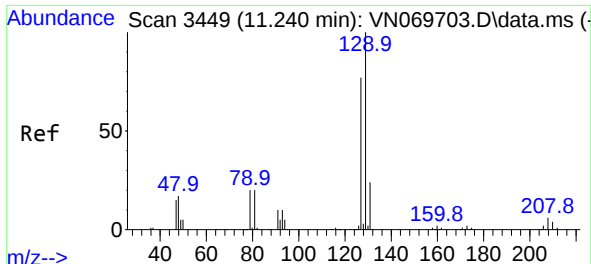
Tgt Ion: 63 Resp: 84
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#59
2-Hexanone
Concen: 94.551 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Tgt Ion: 43 Resp: 2220882
Ion Ratio Lower Upper
43 100
58 16.3 26.9 80.7#

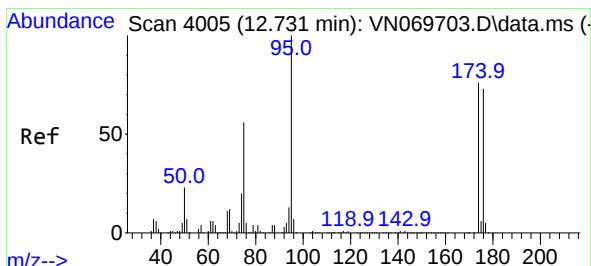
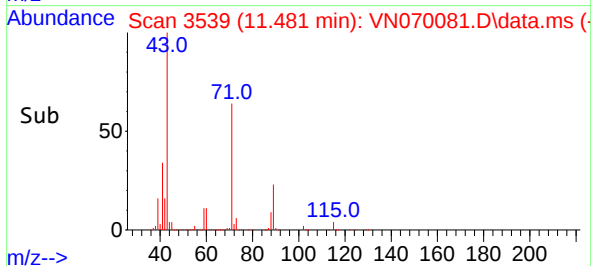
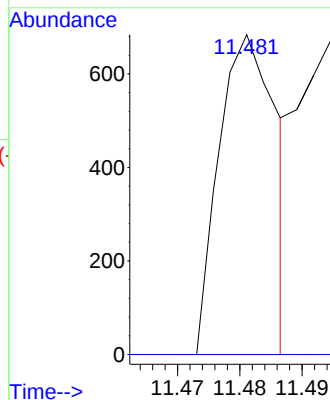
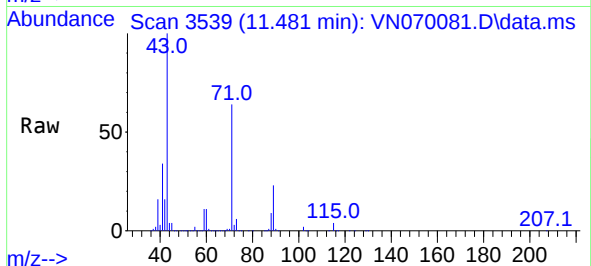




#60
Dibromochloromethane
Concen: 2.400 ug/l
RT: 11.481 min Scan# 311
Delta R.T. 0.241 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

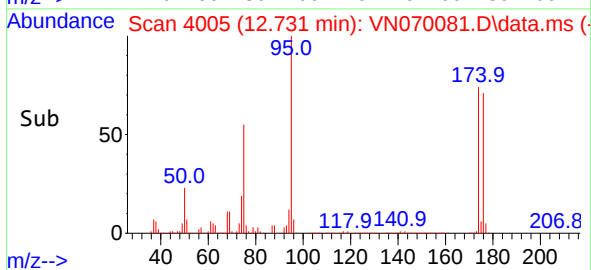
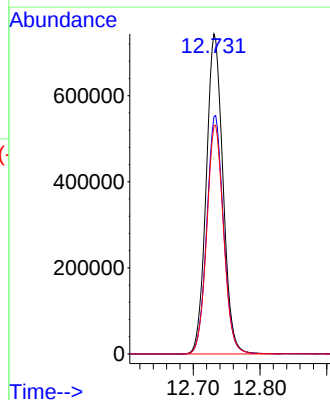
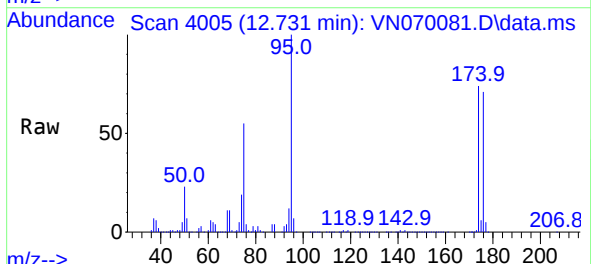
Instrument :
MSVOA_N
ClientSampleId :

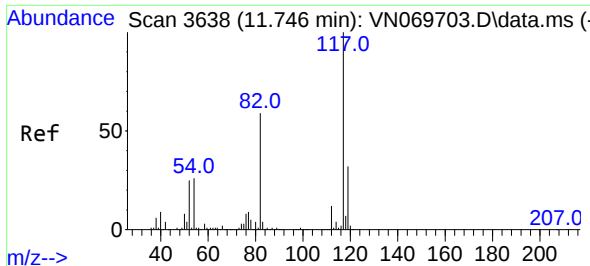
Tgt Ion:129 Resp: 438
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 62.153 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

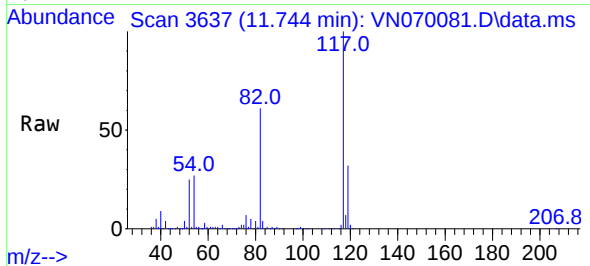
Tgt Ion: 95 Resp: 1292779
Ion Ratio Lower Upper
95 100
174 74.6 0.0 187.2
176 71.9 0.0 181.4



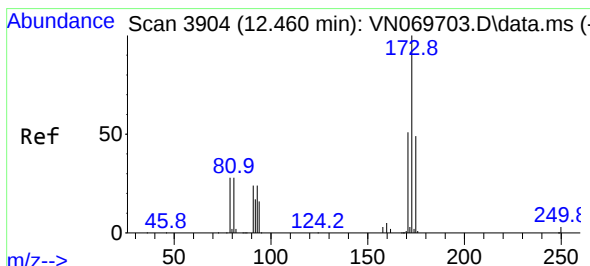
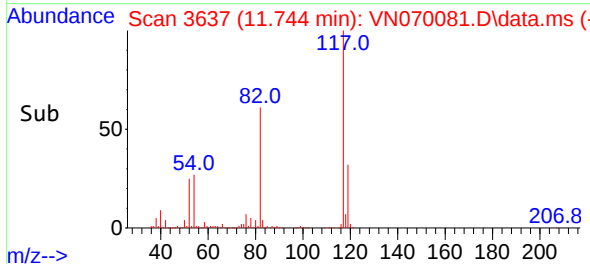
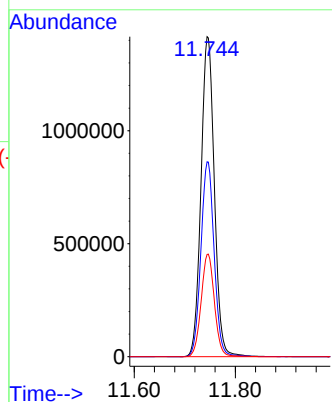


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 30
Delta R.T. -0.002 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Instrument :
MSVOA_N
ClientSampleId :

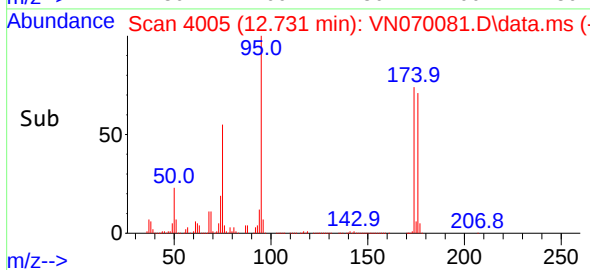
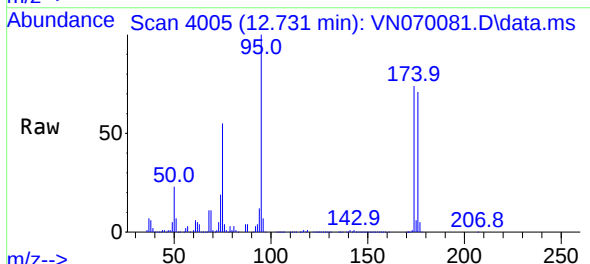
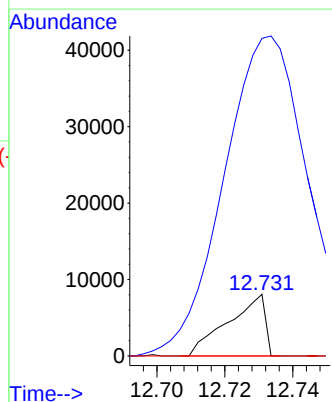


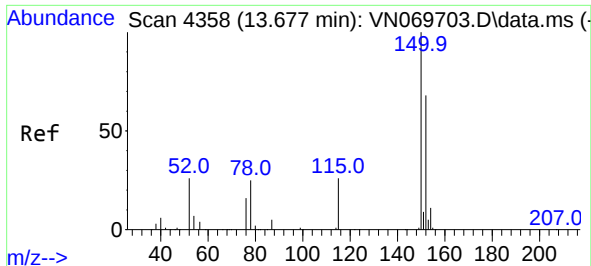
Tgt Ion:117 Resp: 2596679
Ion Ratio Lower Upper
117 100
82 60.9 42.4 63.6
119 32.0 25.4 38.2



#71
Bromoform
Concen: 3.094 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.271 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

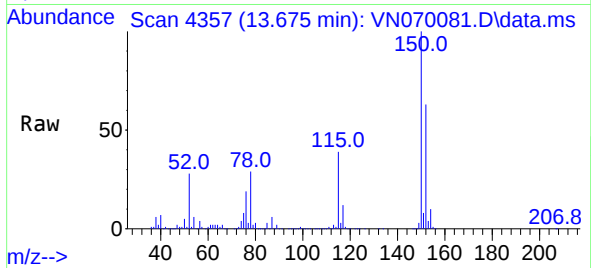
Tgt Ion:173 Resp: 6087
Ion Ratio Lower Upper
173 100
175 1128.4 24.2 72.6#
254 0.0 0.0 0.0



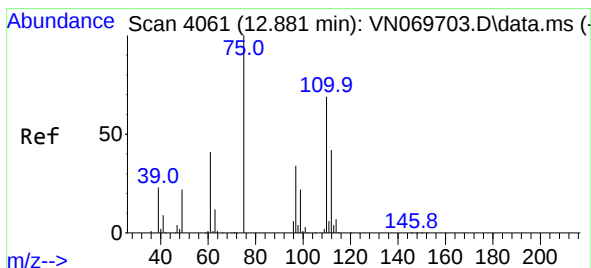
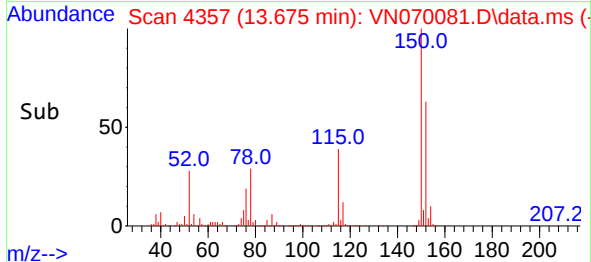
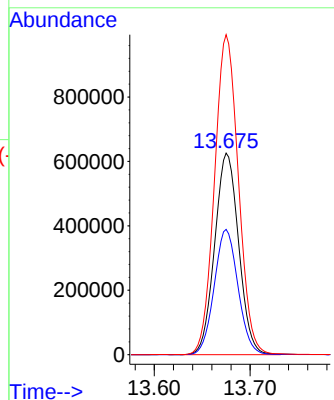


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 41
Delta R.T. -0.002 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

Instrument :
MSVOA_N
ClientSampleId :

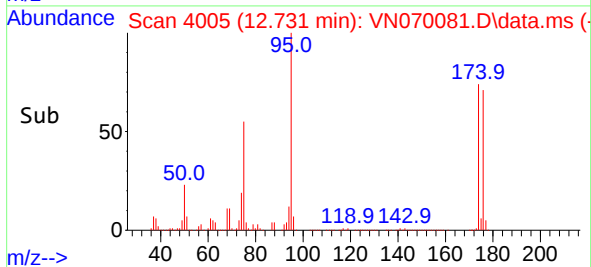
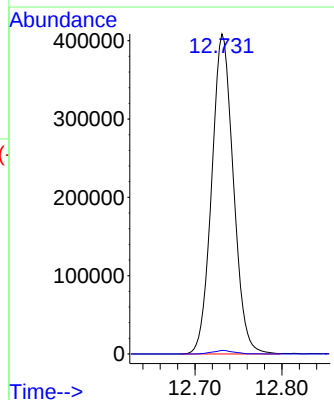
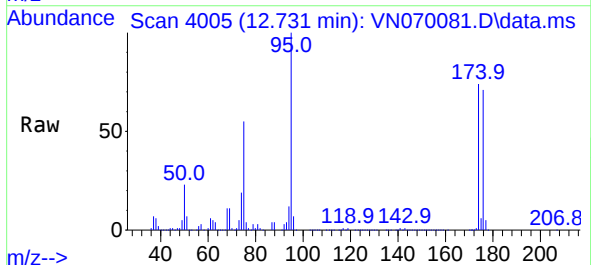


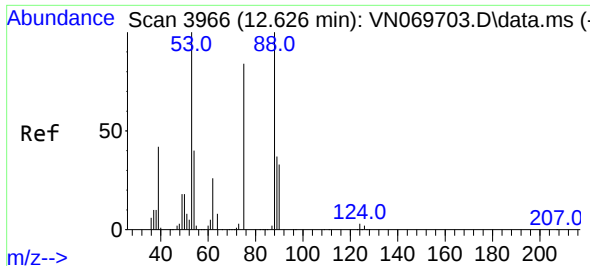
Tgt Ion:152 Resp: 1087745
Ion Ratio Lower Upper
152 100
115 61.7 27.5 82.5
150 158.1 0.0 344.4



#76
1,2,3-Trichloropropane
Concen: 22.697 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

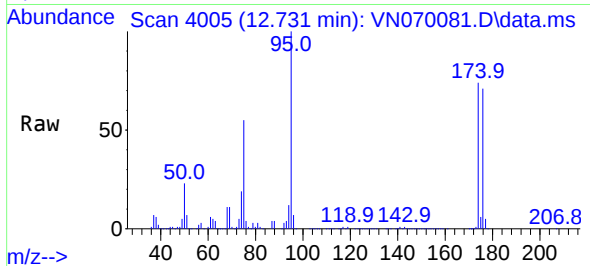
Tgt Ion: 75 Resp: 708015
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



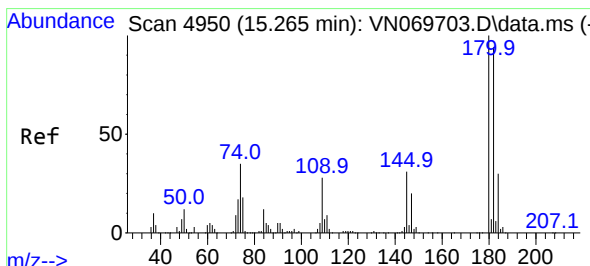
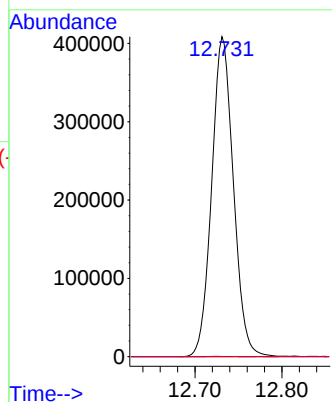
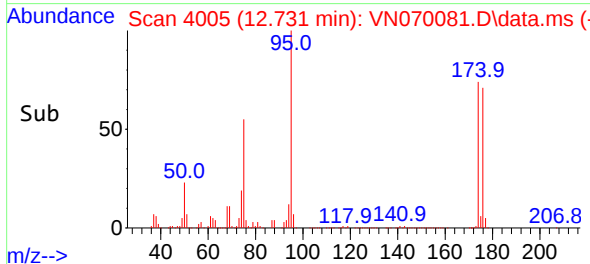


#81
trans-1,4-Dichloro-2-butene
Concen: 72.312 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

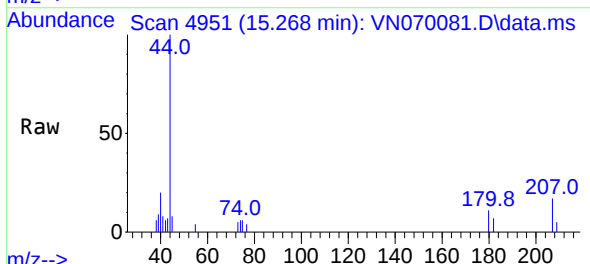
Instrument :
MSVOA_N
ClientSampleId :



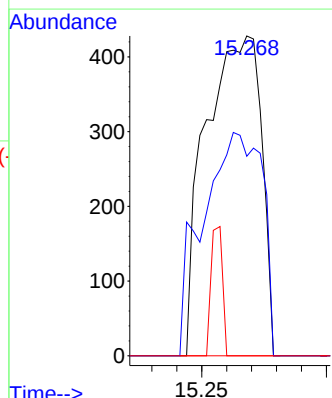
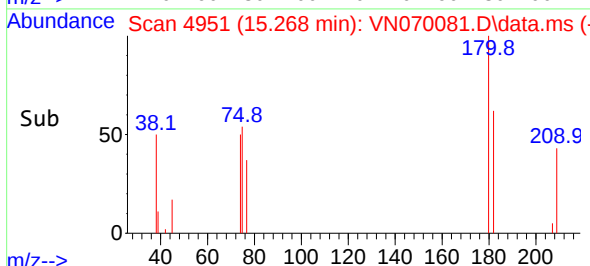
Tgt Ion: 75 Resp: 708015
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#

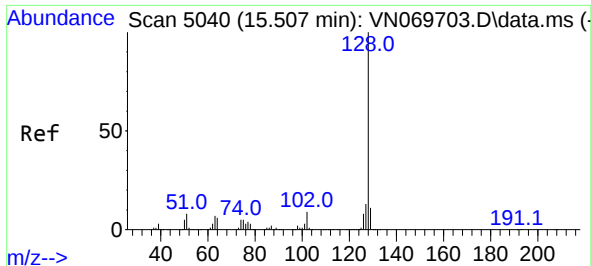


#93
1,2,4-Trichlorobenzene
Concen: 2.913 ug/l
RT: 15.268 min Scan# 4951
Delta R.T. 0.003 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40



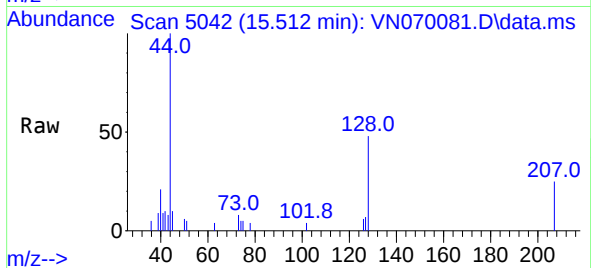
Tgt Ion: 180 Resp: 661
Ion Ratio Lower Upper
180 100
182 74.7 48.3 144.9
145 8.3 14.5 43.5#



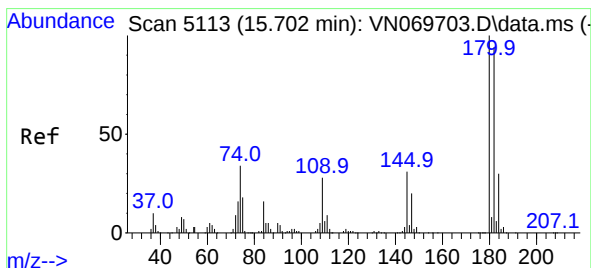
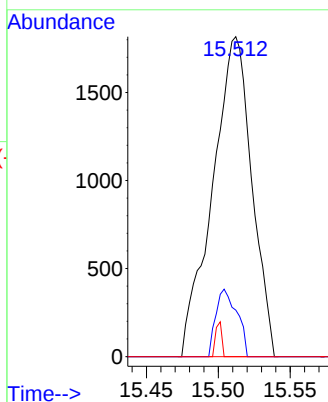
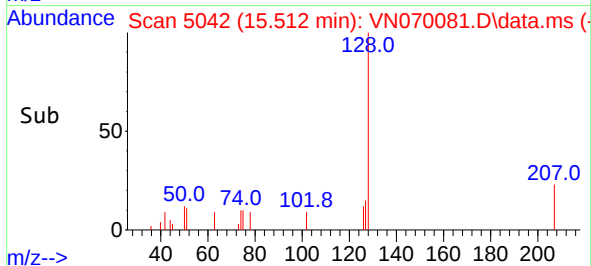


#95
Naphthalene
Concen: 4.045 ug/l
RT: 15.512 min Scan# 5040
Delta R.T. 0.005 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40

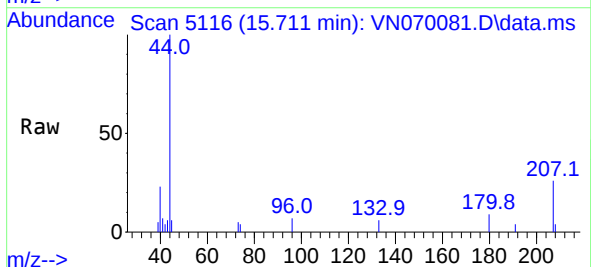
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 3453
Ion Ratio Lower Upper
128 100
127 11.3 10.5 15.7
129 1.7 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 2.451 ug/l
RT: 15.711 min Scan# 5116
Delta R.T. 0.009 min
Lab File: VN070081.D
Acq: 14 Dec 2021 19:40



Tgt Ion:180 Resp: 274
Ion Ratio Lower Upper
180 100
182 66.1 47.4 142.2
145 40.1 15.0 45.1

