

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100722\
 Data File : VN074803.D
 Acq On : 07 Oct 2022 11:54
 Operator : JC\MD
 Sample : N4963-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 257155-4

Quant Time: Oct 08 03:50:38 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N100522W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 06 05:37:50 2022
 Response via : Initial Calibration

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

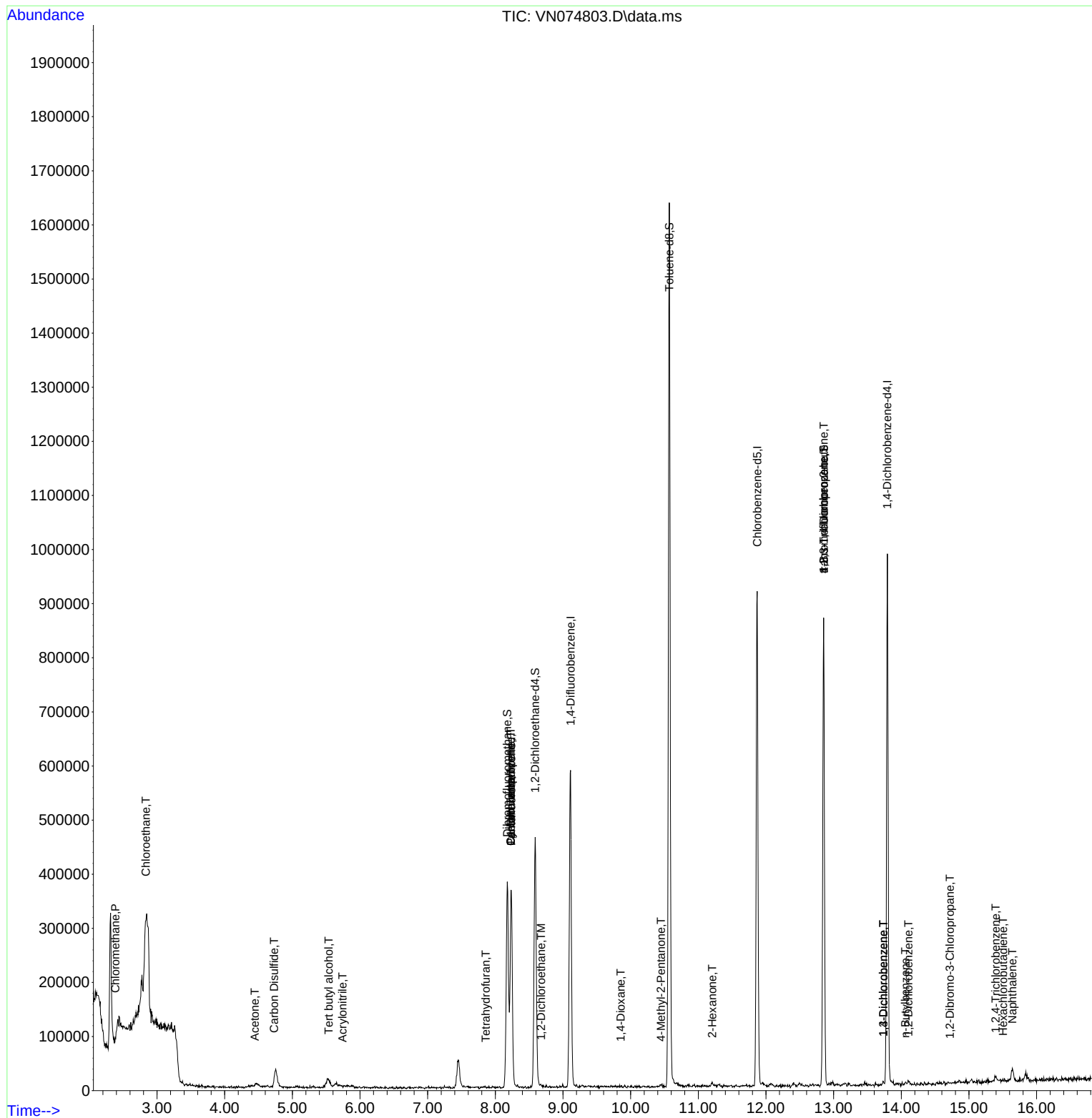
Internal Standards						
1) Pentafluorobenzene	8.235	168	262975	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	510770	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	514972	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	237384	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	335495	53.843	ug/l	0.00
Spiked Amount 50.000	Range	74 - 125	Recovery	= 107.680%		
35) Dibromofluoromethane	8.177	113	259484	50.282	ug/l	0.00
Spiked Amount 50.000	Range	75 - 124	Recovery	= 100.560%		
50) Toluene-d8	10.571	98	1081566	48.843	ug/l	0.00
Spiked Amount 50.000	Range	86 - 113	Recovery	= 97.680%		
62) 4-Bromofluorobenzene	12.853	95	267120	39.683	ug/l	0.00
Spiked Amount 50.000	Range	83 - 123	Recovery	= 79.360%#		
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	1917	0.239	ug/l	100
6) Chloroethane	2.836	64	252949	34.427	ug/l #	52
11) Tert butyl alcohol	5.536	59	8906	4.268	ug/l #	80
13) Acrolein	4.189	56	238	Below Cal	#	35
15) Acrylonitrile	5.741	53	1055	0.232	ug/l #	74
16) Acetone	4.447	43	2810	0.796	ug/l #	44
17) Carbon Disulfide	4.730	76	3728	0.267	ug/l #	74
20) Methylene Chloride	5.294	84	508	Below Cal	#	20
29) Tetrahydrofuran	7.859	42	1515	0.339	ug/l #	44
31) Cyclohexane	8.230	56	9869	0.916	ug/l #	23
36) 1,1-Dichloropropene	8.230	75	23982	2.871	ug/l #	50
38) Carbon Tetrachloride	8.230	117	28221	3.583	ug/l #	17
42) 1,2-Dichloroethane	8.677	62	1787	0.211	ug/l	94
49) 1,4-Dioxane	9.853	88	147	0.798	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	3312	0.248	ug/l #	82
59) 2-Hexanone	11.206	43	5138	0.509	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.935	83	915	Below Cal	#	39
76) 1,2,3-Trichloropropane	12.853	75	161076	22.734	ug/l #	1
77) Bromobenzene	12.988	156	733	Below Cal	#	1
81) trans-1,4-Dichloro-2-b...	12.853	75	161076	44.294	ug/l #	14
87) 1,3-Dichlorobenzene	13.735	146	2231	0.246	ug/l	94
88) 1,4-Dichlorobenzene	13.735	146	2231	0.261	ug/l	95
89) n-Butylbenzene	14.059	91	3464	0.223	ug/l	81
91) 1,2-Dichlorobenzene	14.106	146	1971	0.226	ug/l #	61
92) 1,2-Dibromo-3-Chloropr...	14.717	75	744	0.393	ug/l #	49
93) 1,2,4-Trichlorobenzene	15.394	180	2837	0.743	ug/l	75
94) Hexachlorobutadiene	15.506	225	574	0.322	ug/l #	56
95) Naphthalene	15.641	128	22137	1.342	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.841	180	3392	Below Cal		72

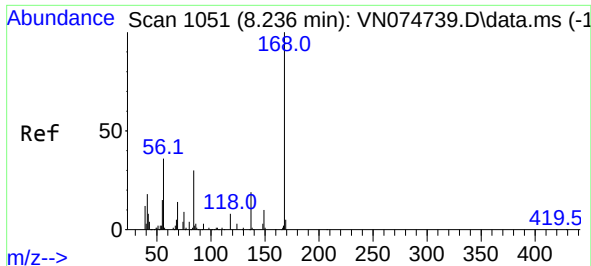
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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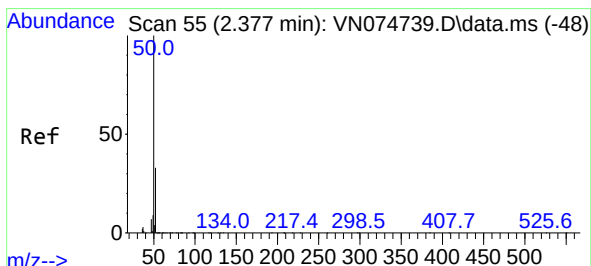
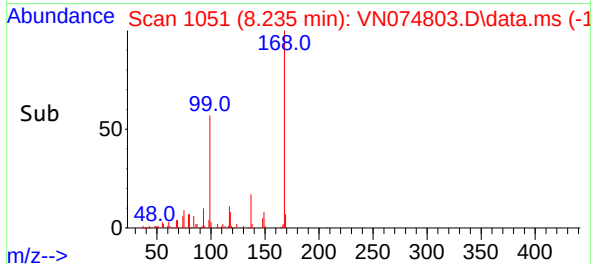
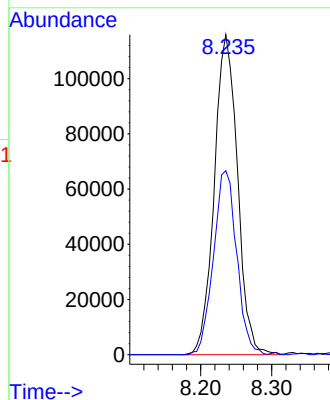
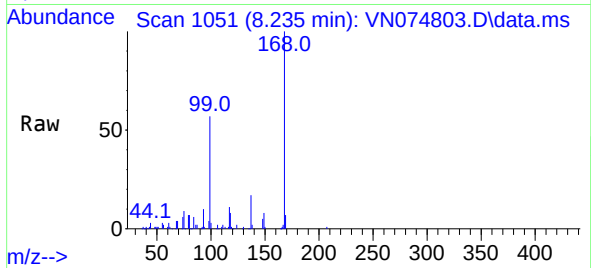




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

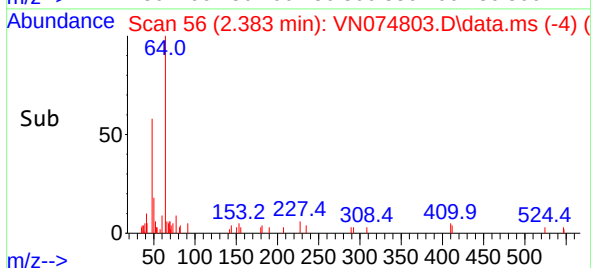
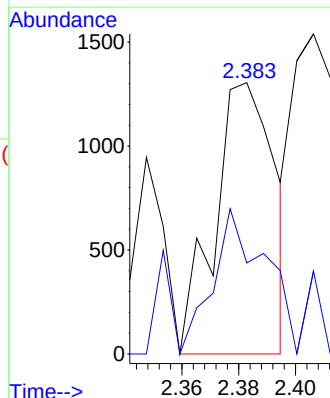
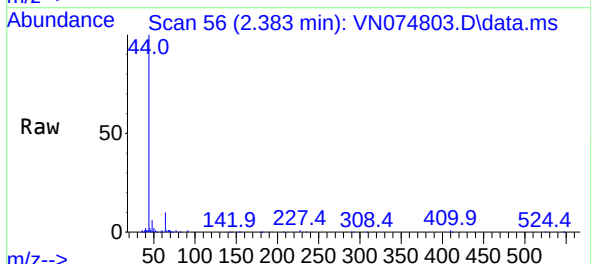
Instrument :
MSVOA_N
ClientSampleId :
257155-4

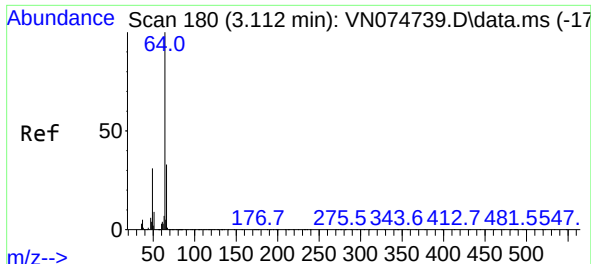
Tgt Ion:168 Resp: 262975
Ion Ratio Lower Upper
168 100
99 57.5 42.8 64.2



#3
Chloromethane
Concen: 0.239 ug/l
RT: 2.383 min Scan# 56
Delta R.T. 0.006 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Tgt Ion: 50 Resp: 1917
Ion Ratio Lower Upper
50 100
52 33.6 26.7 40.1

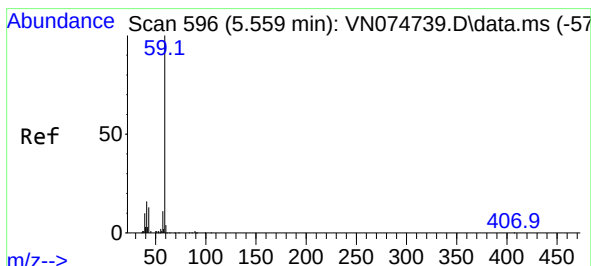
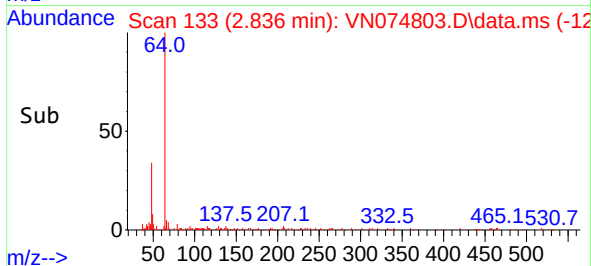
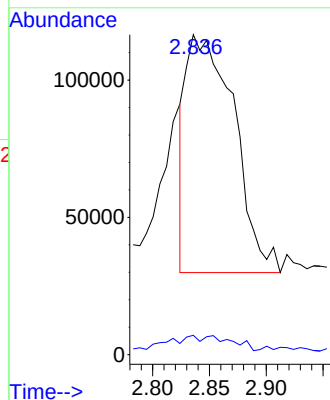
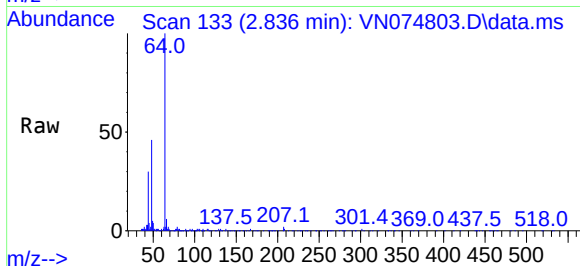




#6
Chloroethane
Concen: 34.427 ug/l
RT: 2.836 min Scan# 11
Delta R.T. -0.277 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

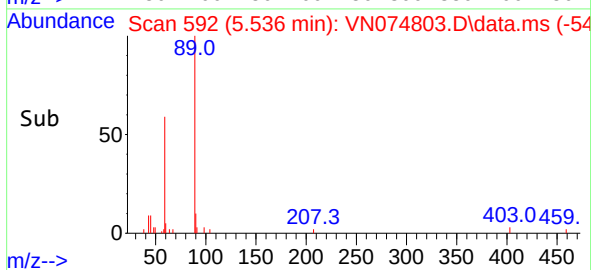
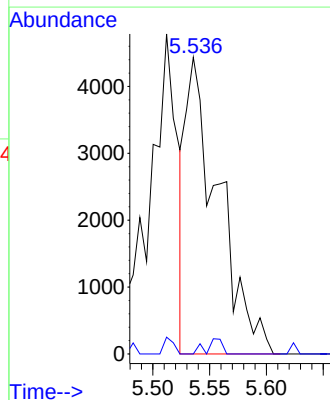
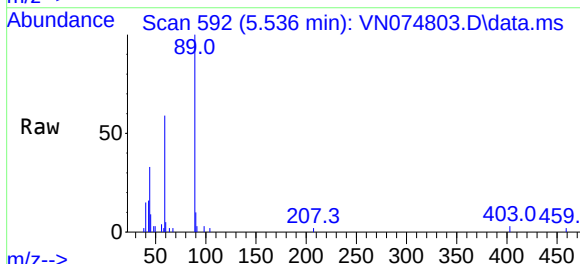
Instrument :
MSVOA_N
ClientSampleId :
257155-4

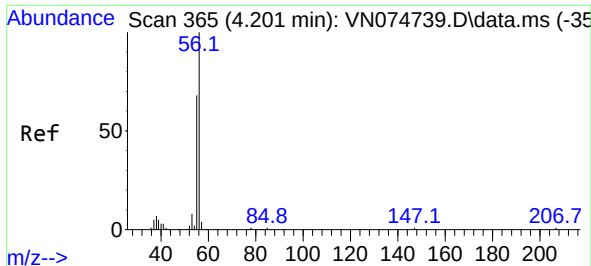
Tgt Ion: 64 Resp: 252949
Ion Ratio Lower Upper
64 100
66 5.0 25.1 37.7#



#11
Tert butyl alcohol
Concen: 4.268 ug/l
RT: 5.536 min Scan# 592
Delta R.T. -0.024 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Tgt Ion: 59 Resp: 8906
Ion Ratio Lower Upper
59 100
57 2.4 7.7 11.5#

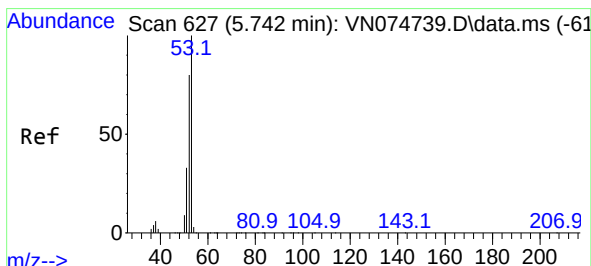
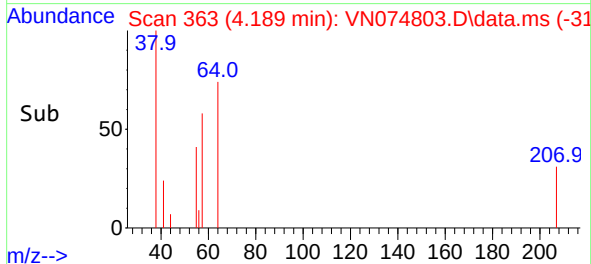
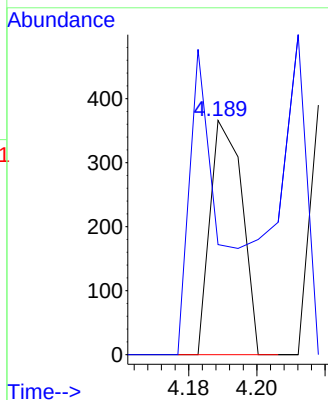
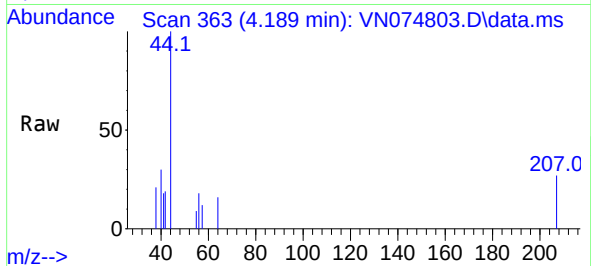




#13
Acrolein
Concen: Below Cal
RT: 4.189 min Scan# 365
Delta R.T. -0.012 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

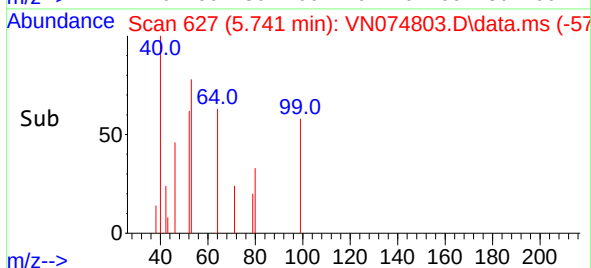
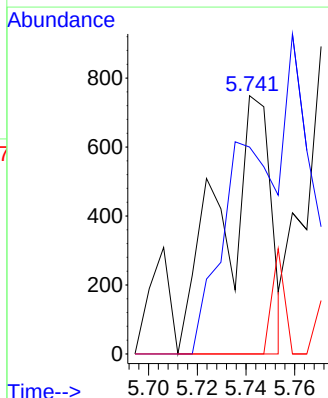
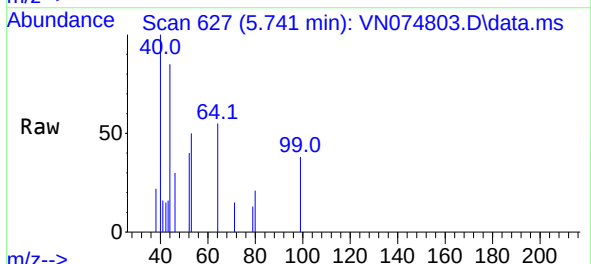
Instrument :
MSVOA_N
ClientSampleId :
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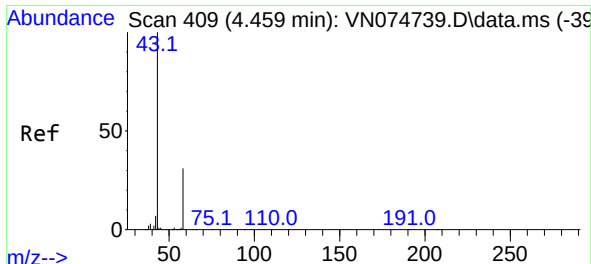
Tgt Ion: 56 Resp: 238
Ion Ratio Lower Upper
56 100
55 121.0 54.9 82.3#



#15
Acrylonitrile
Concen: 0.232 ug/l
RT: 5.741 min Scan# 627
Delta R.T. -0.000 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Tgt Ion: 53 Resp: 1055
Ion Ratio Lower Upper
53 100
52 90.3 64.3 96.5
51 0.0 27.5 41.3#

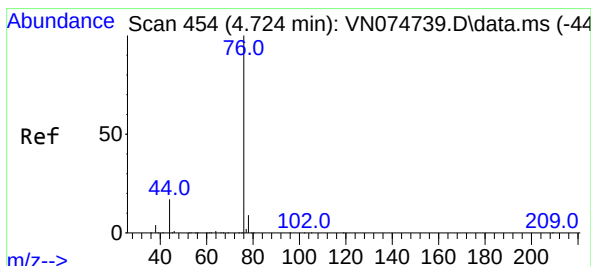
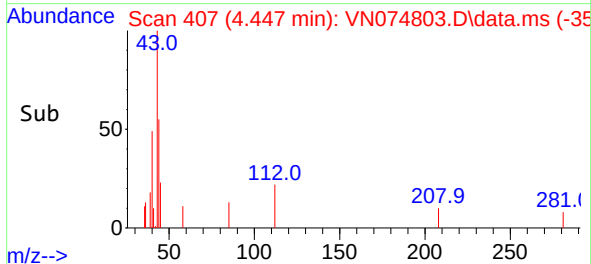
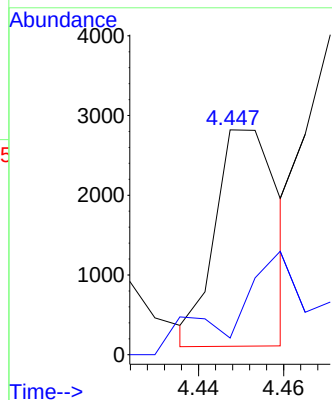
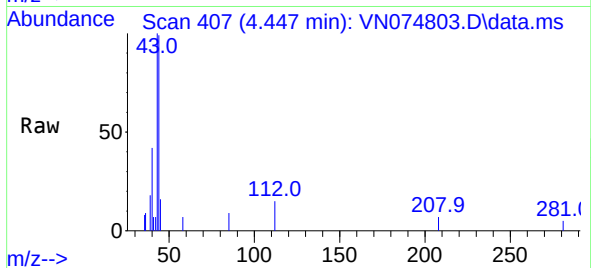




#16
Acetone
Concen: 0.796 ug/l
RT: 4.447 min Scan# 409
Delta R.T. -0.012 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

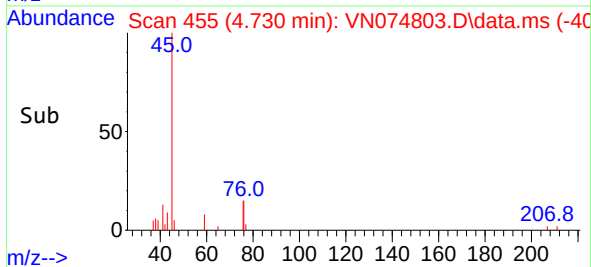
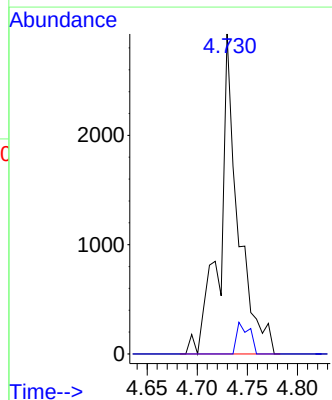
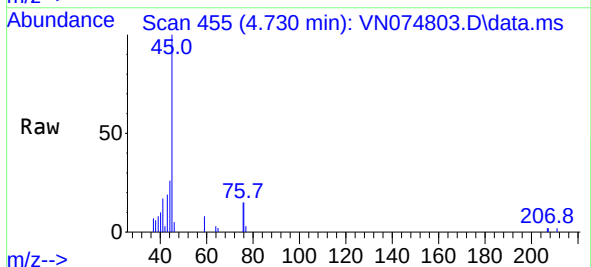
Instrument :
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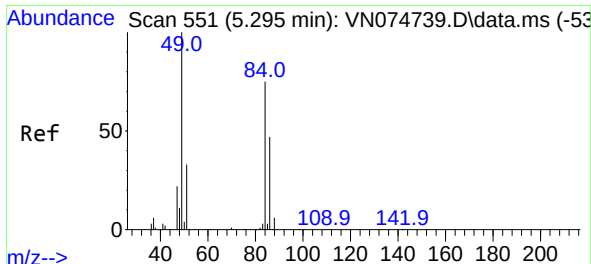
Tgt Ion: 43 Resp: 2810
Ion Ratio Lower Upper
43 100
58 0.0 24.9 37.3#



#17
Carbon Disulfide
Concen: 0.267 ug/l
RT: 4.730 min Scan# 455
Delta R.T. 0.006 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

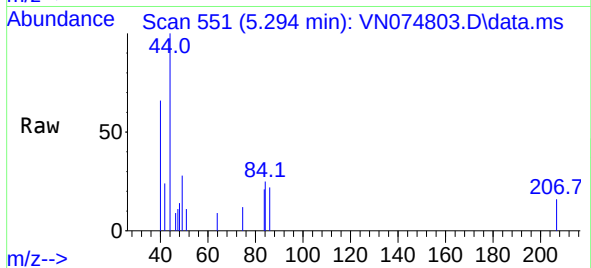
Tgt Ion: 76 Resp: 3728
Ion Ratio Lower Upper
76 100
78 0.0 7.5 11.3#





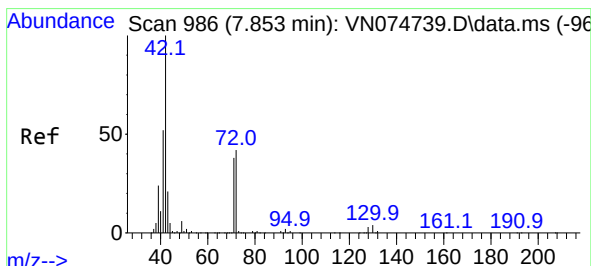
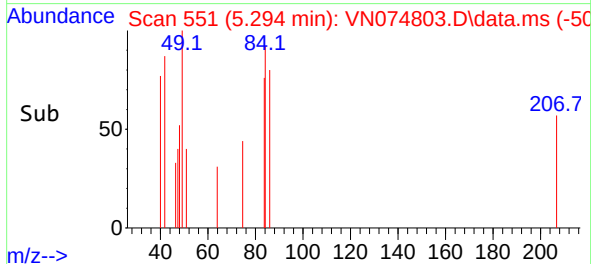
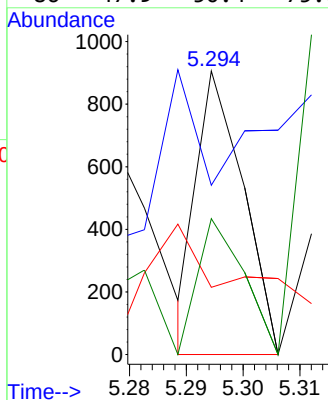
#20
Methylene Chloride
Concen: Below Cal
RT: 5.294 min Scan# 51
Delta R.T. -0.001 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Instrument :
MSVOA_N
ClientSampleId :
257155-4



Tgt Ion: 84 Resp: 508

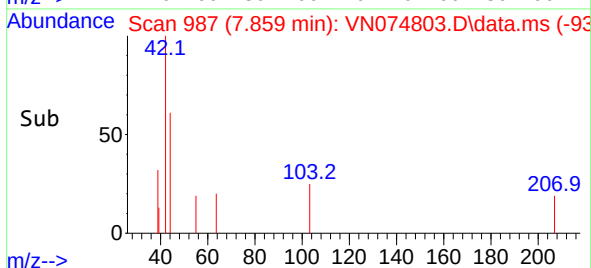
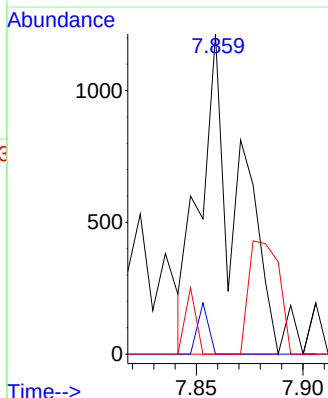
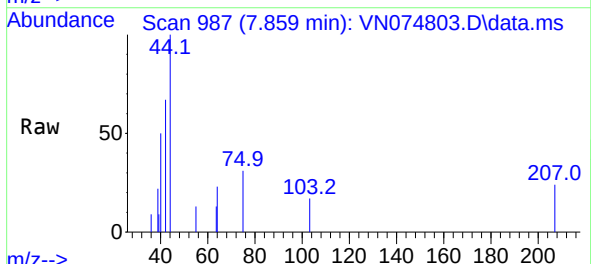
Ion	Ratio	Lower	Upper
84	100		
49	0.0	107.4	161.0#
51	0.0	35.1	52.7#
86	47.9	50.4	75.6#

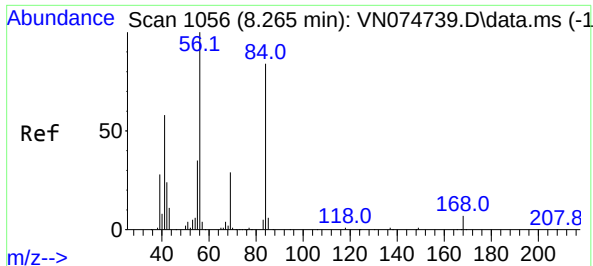


#29
Tetrahydrofuran
Concen: 0.339 ug/l
RT: 7.859 min Scan# 987
Delta R.T. 0.006 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Tgt Ion: 42 Resp: 1515

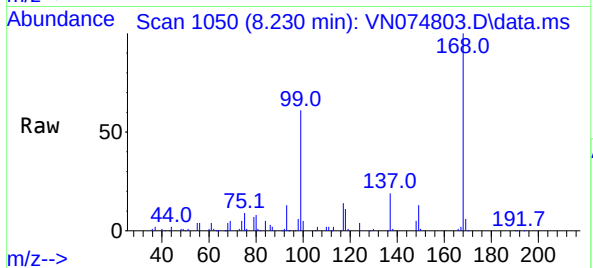
Ion	Ratio	Lower	Upper
42	100		
72	4.5	33.0	49.6#
71	5.9	30.4	45.6#



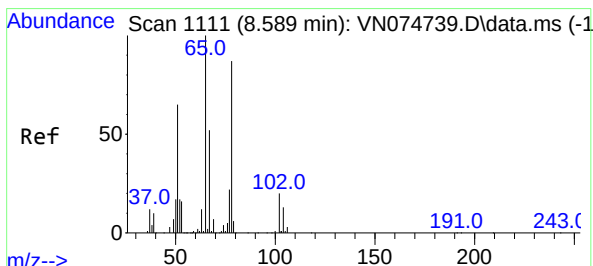
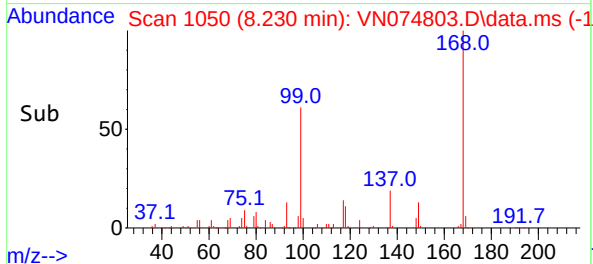
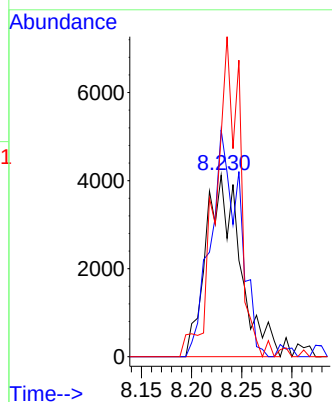


#31
Cyclohexane
Concen: 0.916 ug/l
RT: 8.230 min Scan# 1056
Delta R.T. -0.036 min
Lab File: VN074803.D
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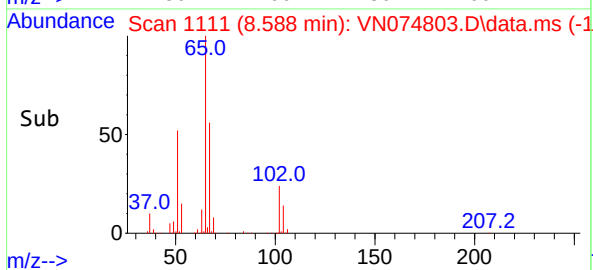
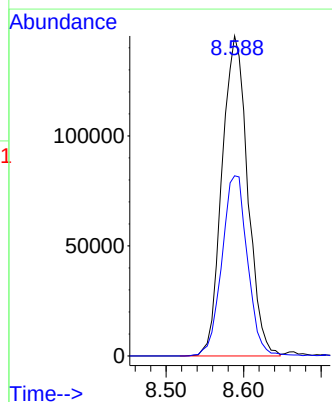
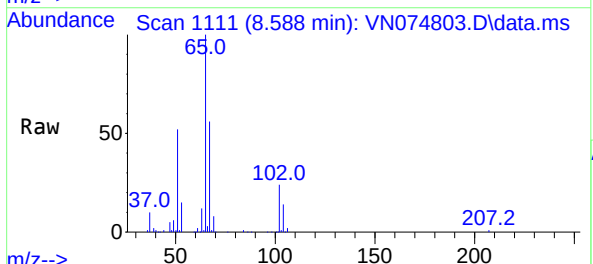


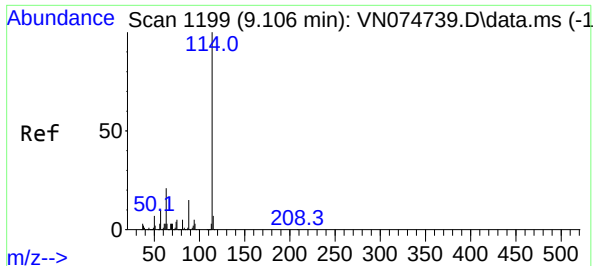
Tgt Ion: 56 Resp: 9869
Ion Ratio Lower Upper
56 100
69 124.9 23.1 34.7#
84 121.9 67.1 100.7#



#33
1,2-Dichloroethane-d4
Concen: 53.843 ug/l
RT: 8.588 min Scan# 1111
Delta R.T. -0.000 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Tgt Ion: 65 Resp: 335495
Ion Ratio Lower Upper
65 100
67 56.3 0.0 109.0

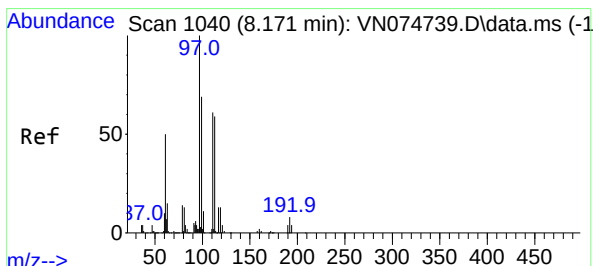
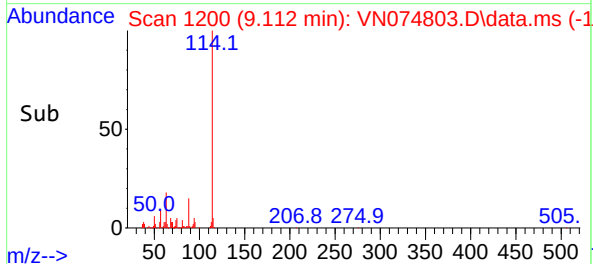
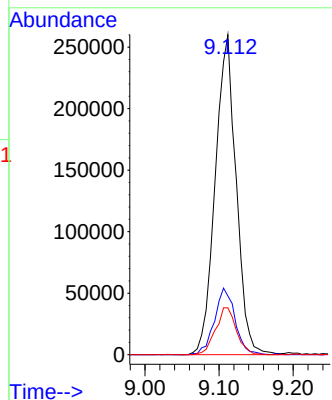
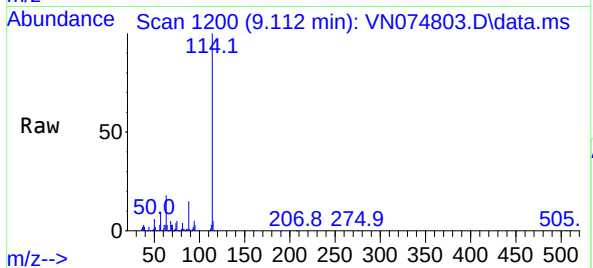




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.112 min Scan# 1199
Delta R.T. 0.006 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

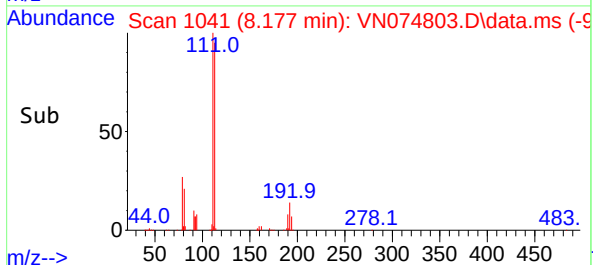
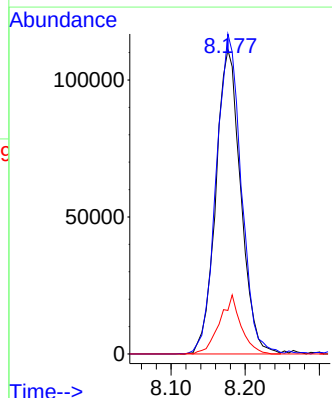
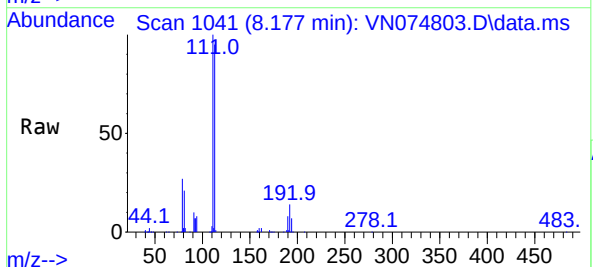
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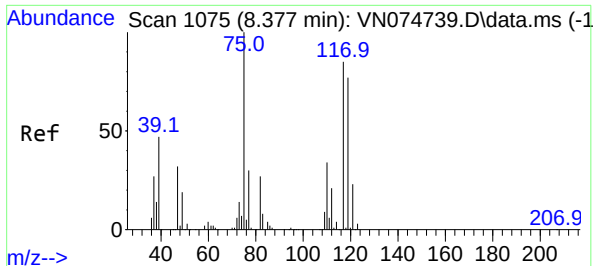
Tgt Ion:114 Resp: 510770
Ion Ratio Lower Upper
114 100
63 18.3 0.0 41.2
88 14.7 0.0 30.2



#35
Dibromofluoromethane
Concen: 50.282 ug/l
RT: 8.177 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Tgt Ion:113 Resp: 259484
Ion Ratio Lower Upper
113 100
111 105.7 83.0 124.6
192 16.6 12.6 18.8





#36

1,1-Dichloropropene

Concen: 2.871 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.147 min

Lab File: VN074803.D

Acq: 07 Oct 2022 11:54

Instrument :

MSVOA_N

ClientSampleId :

257155-4

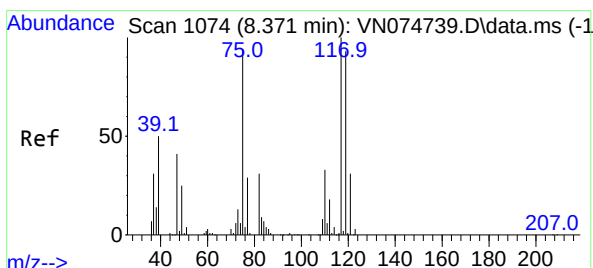
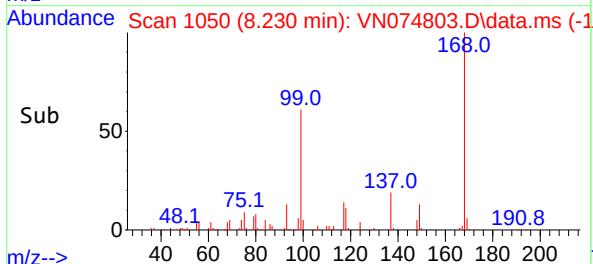
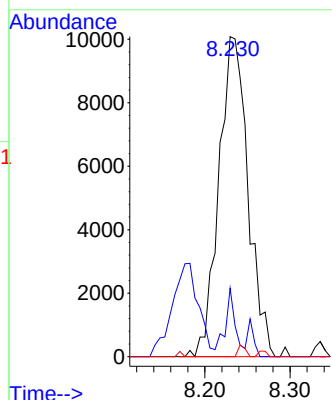
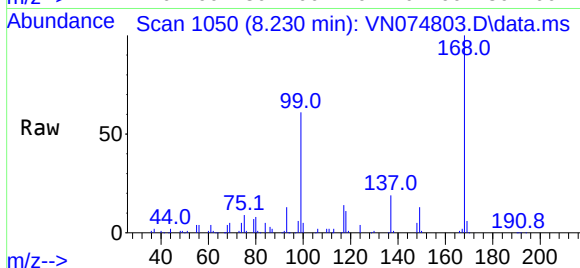
Tgt Ion: 75 Resp: 23982

Ion Ratio Lower Upper

75 100

110 7.5 17.2 51.5#

77 0.9 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 3.583 ug/l

RT: 8.230 min Scan# 1050

Delta R.T. -0.141 min

Lab File: VN074803.D

Acq: 07 Oct 2022 11:54

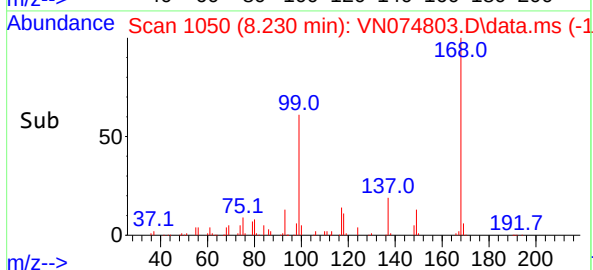
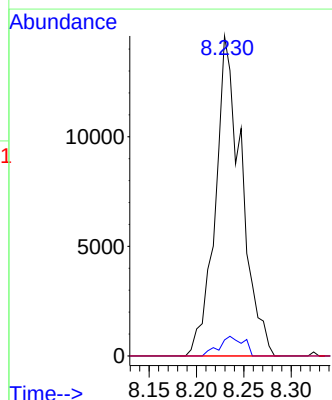
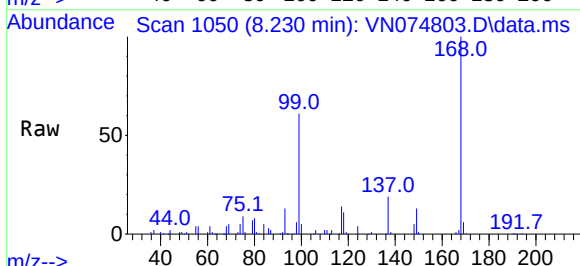
Tgt Ion: 117 Resp: 28221

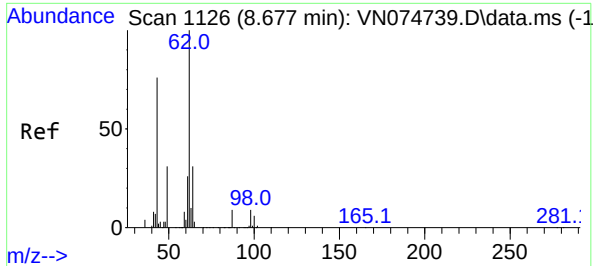
Ion Ratio Lower Upper

117 100

119 5.0 74.3 111.5#

121 0.0 25.0 37.4#

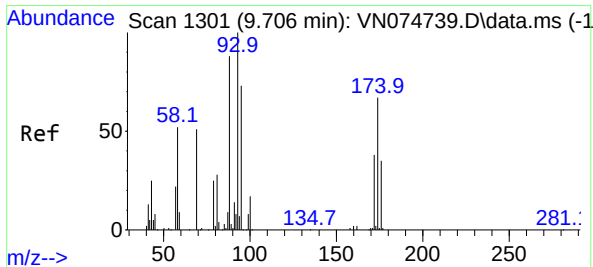
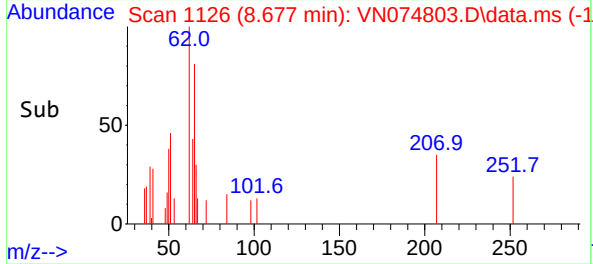
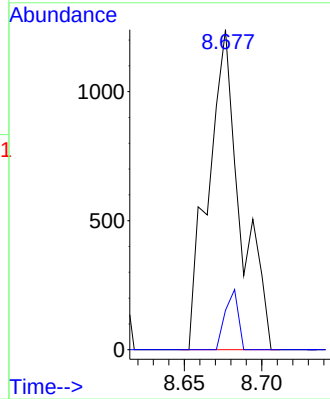
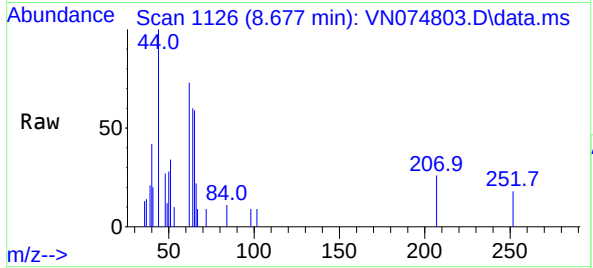




#42
1,2-Dichloroethane
Concen: 0.211 ug/l
RT: 8.677 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

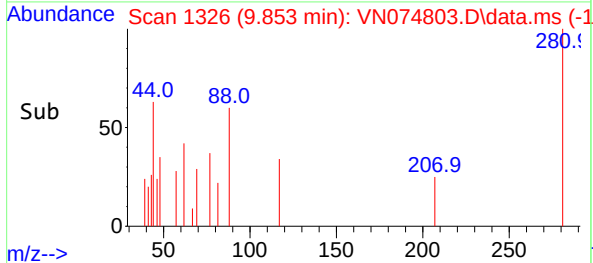
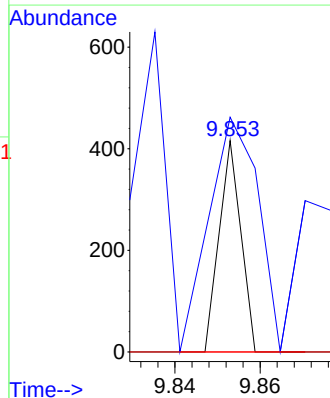
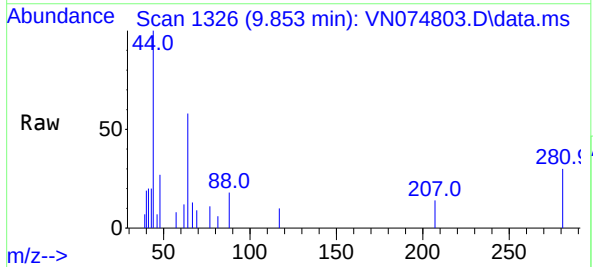
Instrument :
MSVOA_N
ClientSampleId :
257155-4

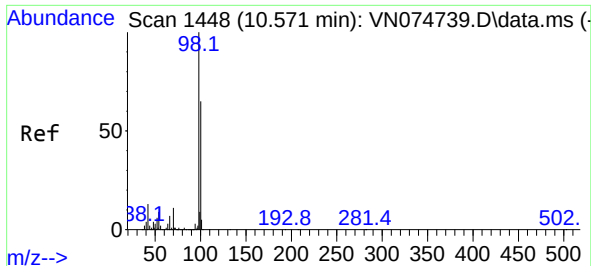
Tgt Ion: 62 Resp: 1787
Ion Ratio Lower Upper
62 100
98 7.6 0.0 19.4



#49
1,4-Dioxane
Concen: 0.798 ug/l
RT: 9.853 min Scan# 1326
Delta R.T. 0.147 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Tgt Ion: 88 Resp: 147
Ion Ratio Lower Upper
88 100
43 253.1 23.4 35.2#
58 0.0 54.9 82.3#

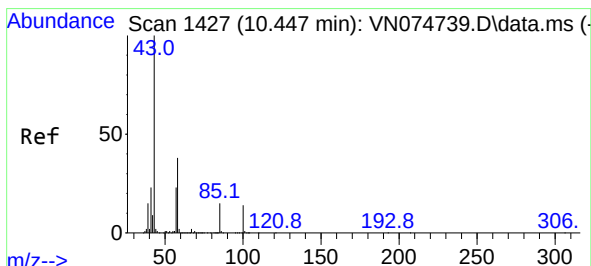
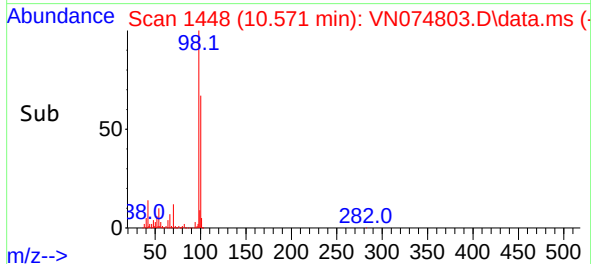
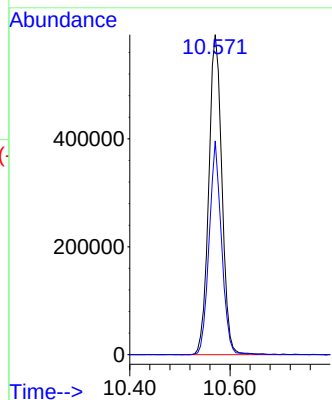
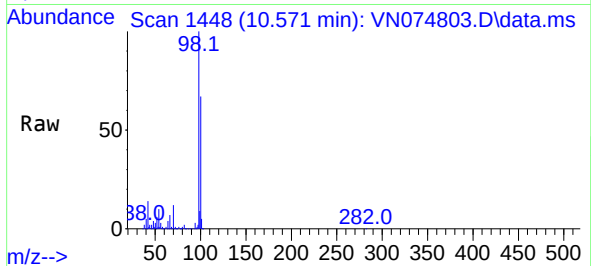




#50
Toluene-d8
Concen: 48.843 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

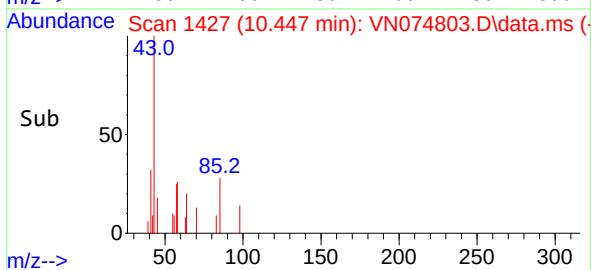
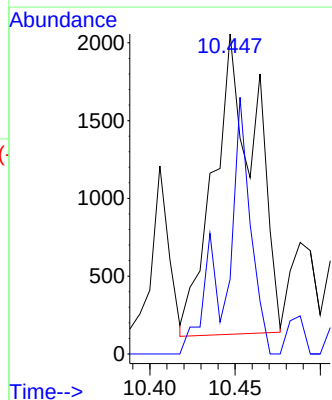
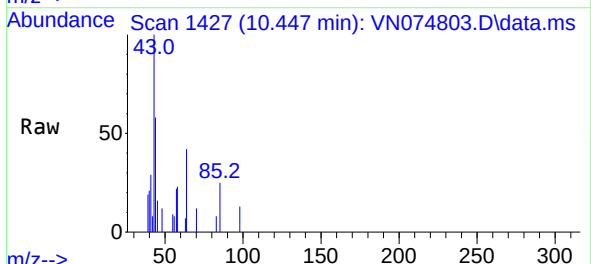
Instrument :
MSVOA_N
ClientSampleId :
257155-4

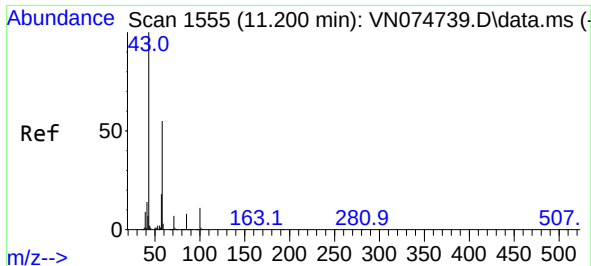
Tgt Ion: 98 Resp: 1081566
Ion Ratio Lower Upper
98 100
100 62.8 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 0.248 ug/l
RT: 10.447 min Scan# 1427
Delta R.T. -0.000 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Tgt Ion: 43 Resp: 3312
Ion Ratio Lower Upper
43 100
58 49.3 30.6 45.8#

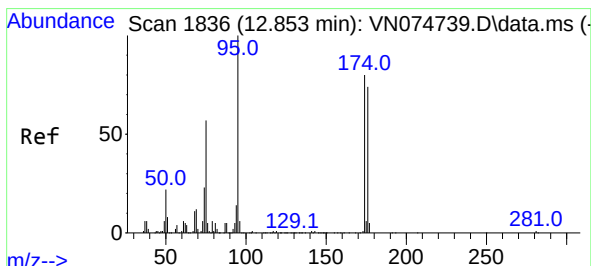
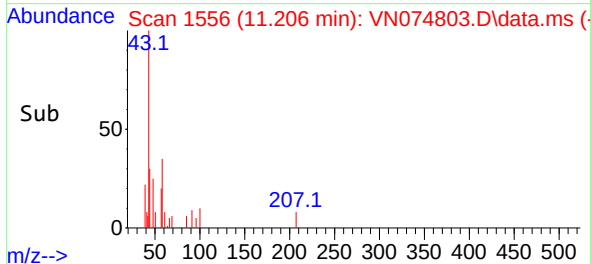
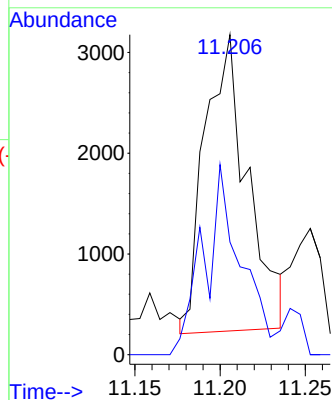
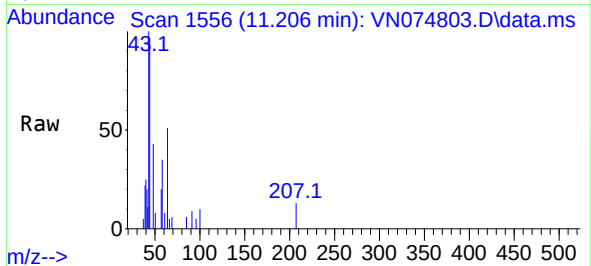




#59
2-Hexanone
Concen: 0.509 ug/l
RT: 11.206 min Scan# 1556
Delta R.T. 0.006 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

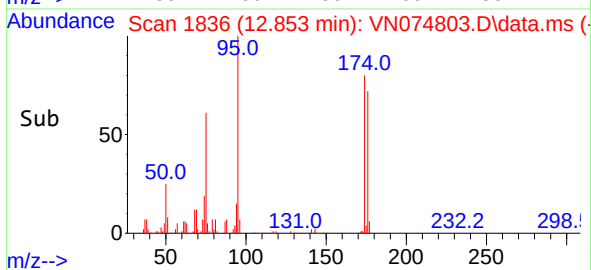
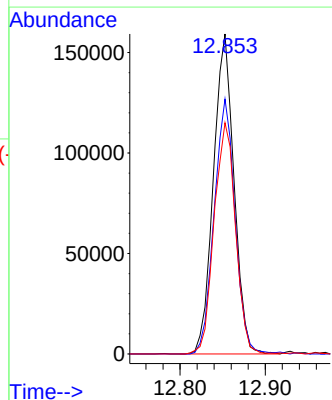
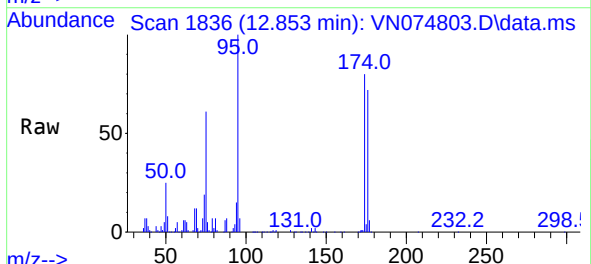
Instrument :
MSVOA_N
ClientSampleId :
257155-4

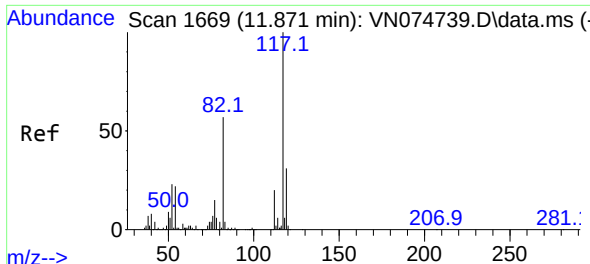
Tgt Ion: 43 Resp: 5138
Ion Ratio Lower Upper
43 100
58 55.0 27.3 81.9



#62
4-Bromofluorobenzene
Concen: 39.683 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Tgt Ion: 95 Resp: 267120
Ion Ratio Lower Upper
95 100
174 81.1 0.0 149.4
176 75.0 0.0 142.0

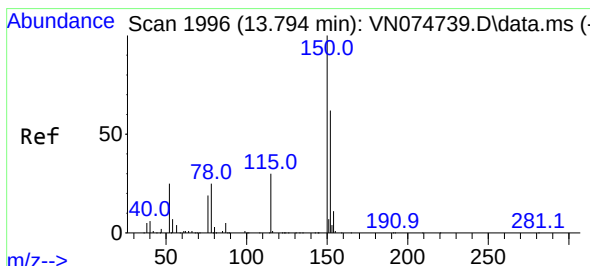
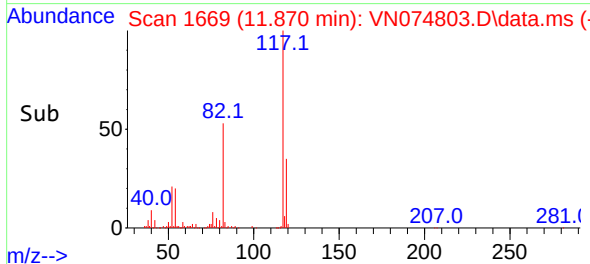
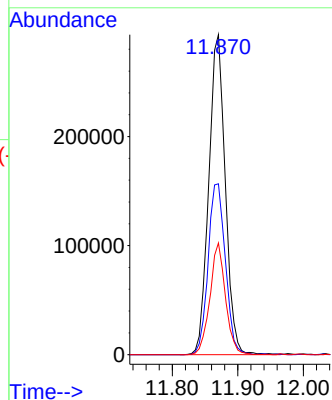
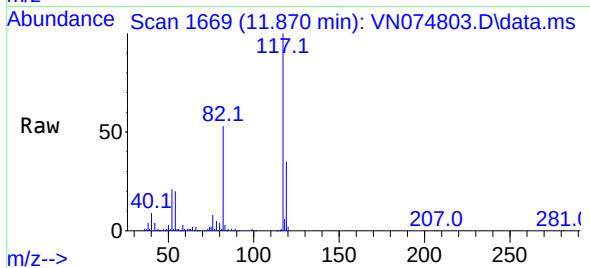




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

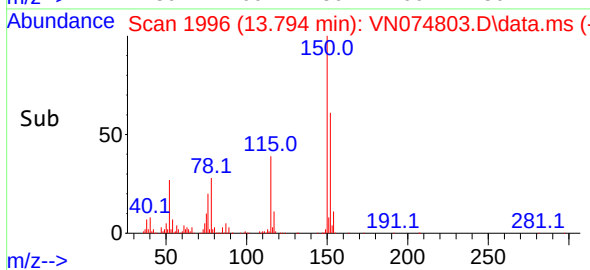
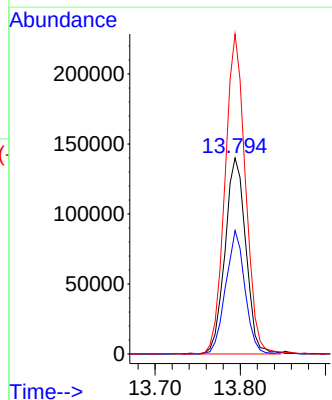
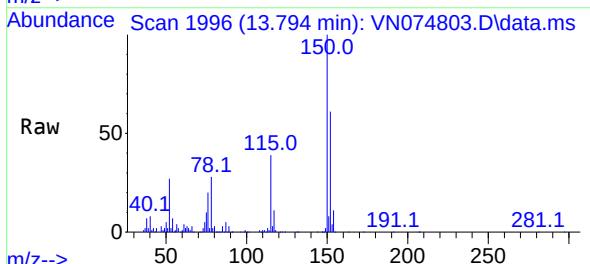
Instrument :
MSVOA_N
ClientSampleId :
257155-4

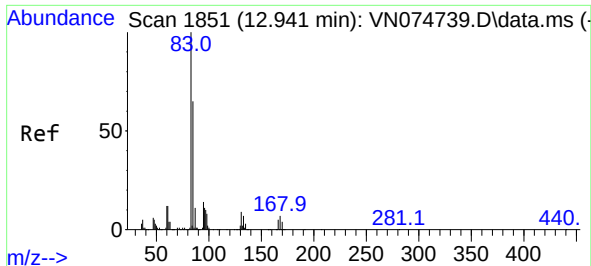
Tgt Ion:117 Resp: 514972
Ion Ratio Lower Upper
117 100
82 53.4 45.4 68.2
119 34.9 25.1 37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Tgt Ion:152 Resp: 237384
Ion Ratio Lower Upper
152 100
115 58.3 30.0 90.0
150 160.8 0.0 356.4

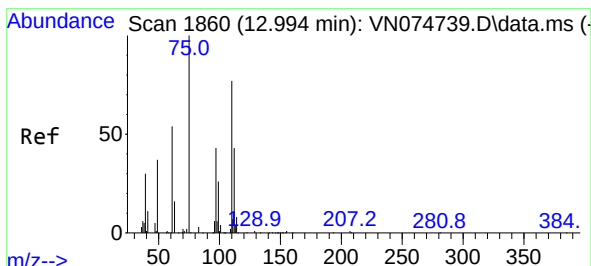
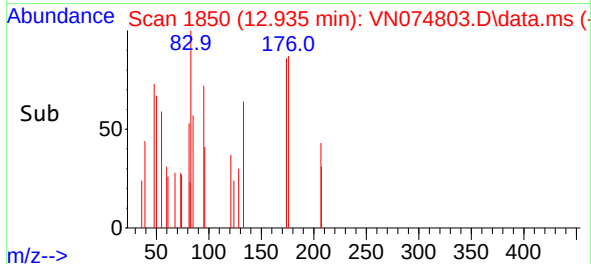
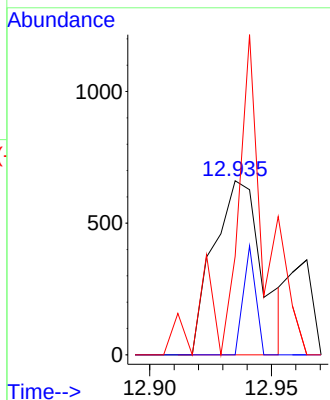
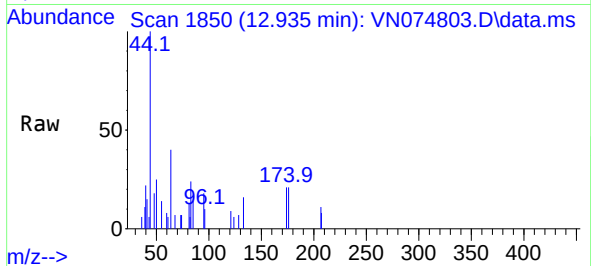




#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.935 min Scan# 1850
Delta R.T. -0.006 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

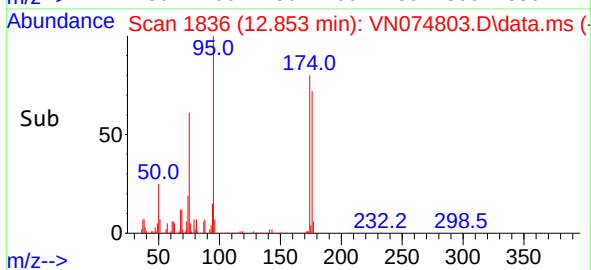
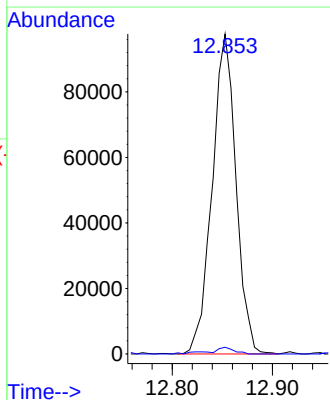
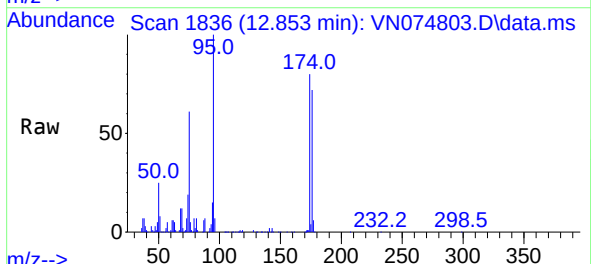
Instrument :
MSVOA_N
ClientSampleId :
257155-4

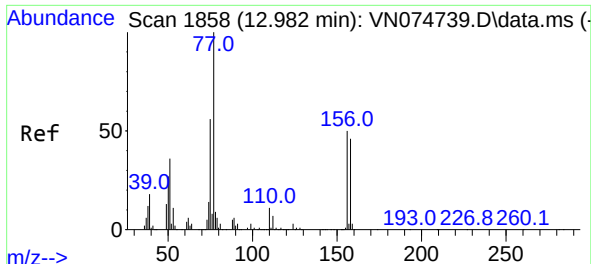
Tgt Ion: 83 Resp: 915
Ion Ratio Lower Upper
83 100
131 16.0 4.3 12.8#
85 118.1 32.9 98.6#



#76
1,2,3-Trichloropropane
Concen: 22.734 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Tgt Ion: 75 Resp: 161076
Ion Ratio Lower Upper
75 100
77 1.4 76.9 230.7#

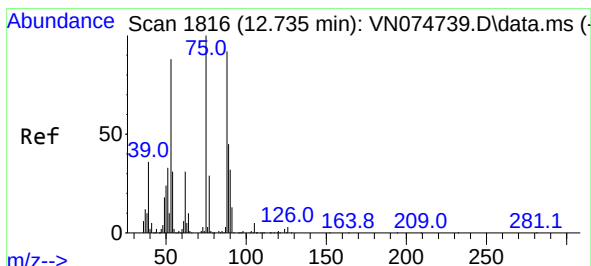
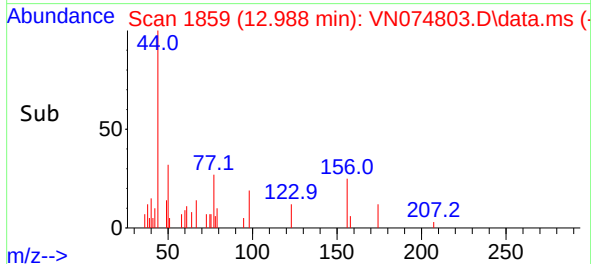
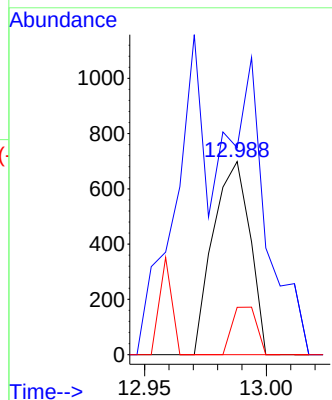
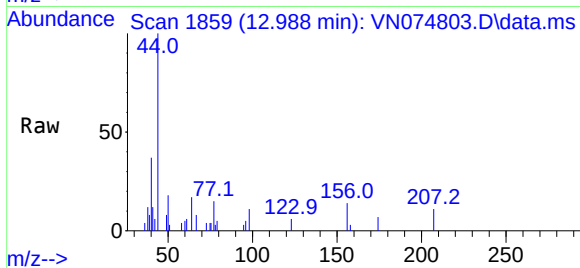




#77
Bromobenzene
Concen: Below Cal
RT: 12.988 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

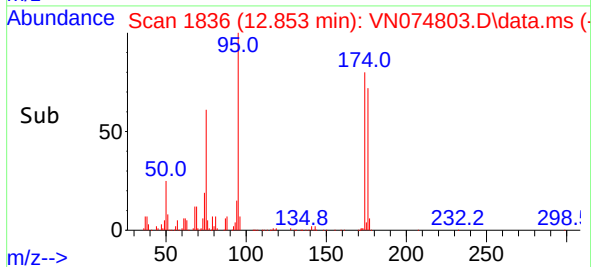
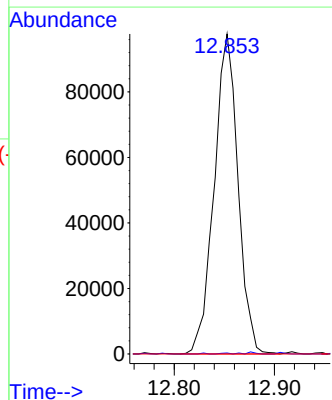
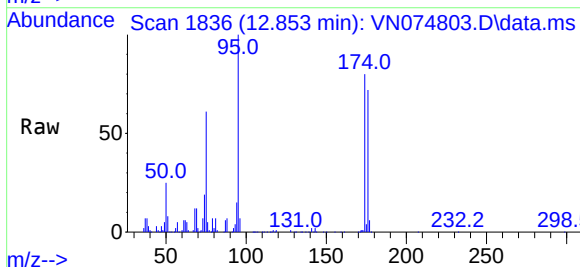
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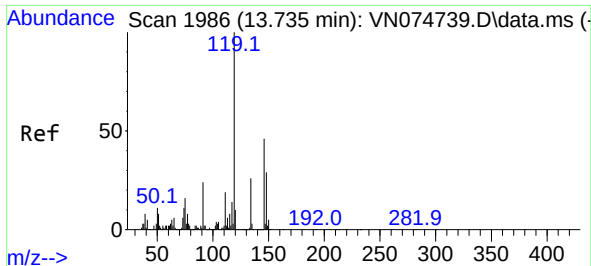
Tgt Ion:156 Resp: 733
Ion Ratio Lower Upper
156 100
77 0.0 124.7 374.1#
158 16.5 48.3 144.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 44.294 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.117 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Tgt Ion: 75 Resp: 161076
Ion Ratio Lower Upper
75 100
53 0.1 71.4 107.0#
89 0.0 32.1 48.1#





#87

1,3-Dichlorobenzene

Concen: 0.246 ug/l

RT: 13.735 min Scan# 1986

Delta R.T. -0.000 min

Lab File: VN074803.D

Acq: 07 Oct 2022 11:54

Instrument :

MSVOA_N

ClientSampleId :

257155-4

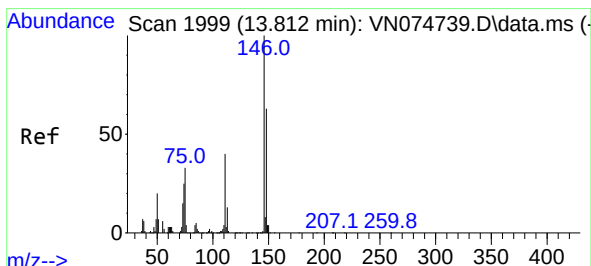
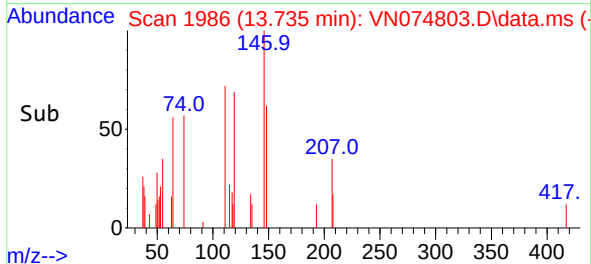
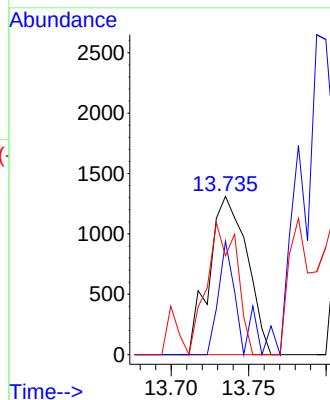
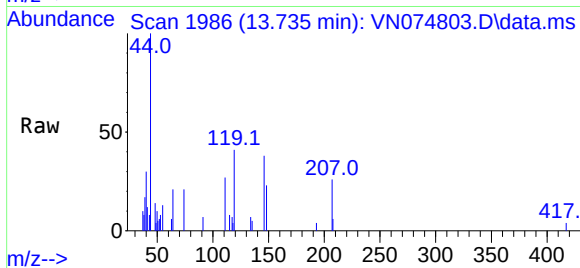
Tgt Ion:146 Resp: 2231

Ion Ratio Lower Upper

146 100

111 35.5 20.8 62.2

148 66.0 31.5 94.5



#88

1,4-Dichlorobenzene

Concen: 0.261 ug/l

RT: 13.735 min Scan# 1986

Delta R.T. -0.077 min

Lab File: VN074803.D

Acq: 07 Oct 2022 11:54

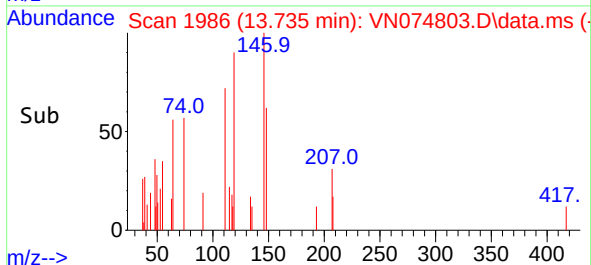
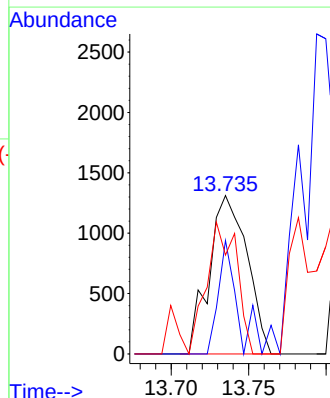
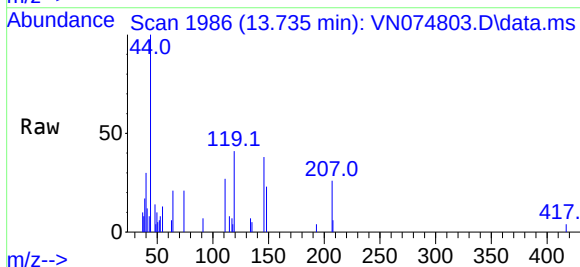
Tgt Ion:146 Resp: 2231

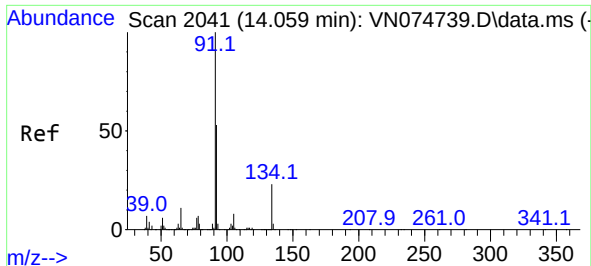
Ion Ratio Lower Upper

146 100

111 35.5 19.9 59.6

148 66.0 31.8 95.4

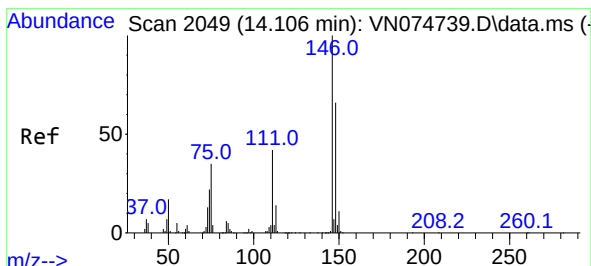
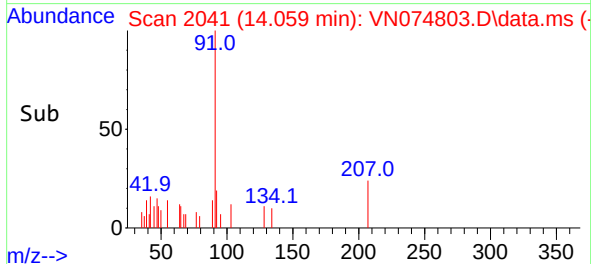
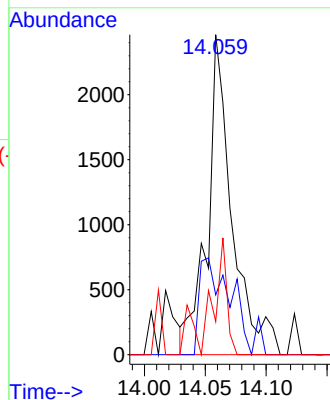
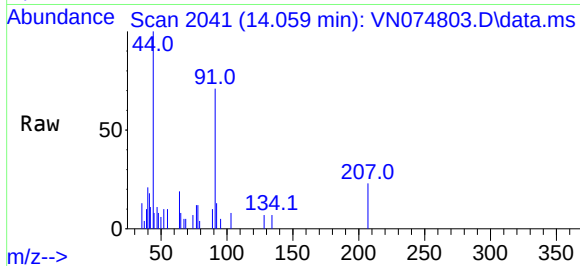




#89
n-Butylbenzene
Concen: 0.223 ug/l
RT: 14.059 min Scan# 2041
Delta R.T. -0.000 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

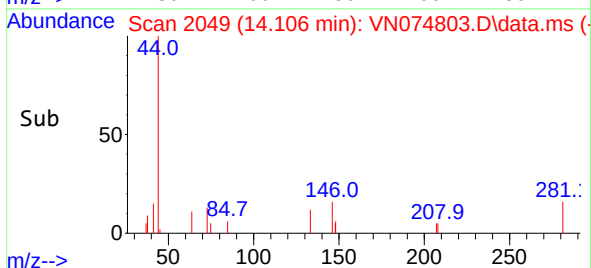
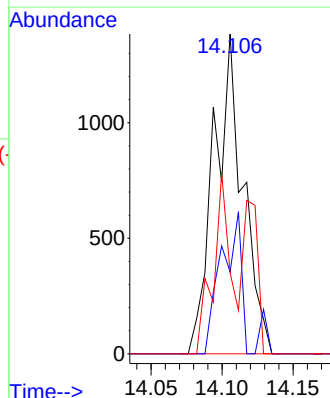
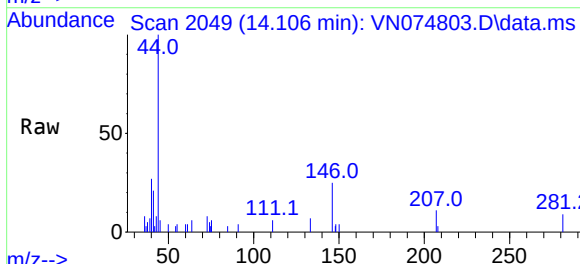
Instrument :
MSVOA_N
ClientSampleId :
257155-4

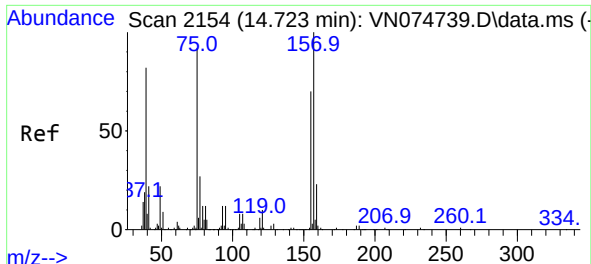
Tgt Ion: 91	Resp:	3464
Ion	Ratio	Lower Upper
91	100	
92	37.2	26.7 80.0
134	18.4	11.9 35.5



#91
1,2-Dichlorobenzene
Concen: 0.226 ug/l
RT: 14.106 min Scan# 2049
Delta R.T. -0.000 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Tgt Ion: 146	Resp:	1971
Ion	Ratio	Lower Upper
146	100	
111	30.5	21.5 64.5
148	23.4	31.9 95.9

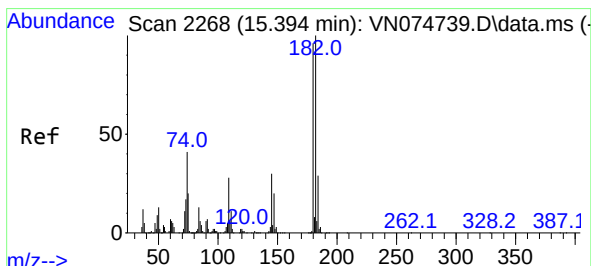
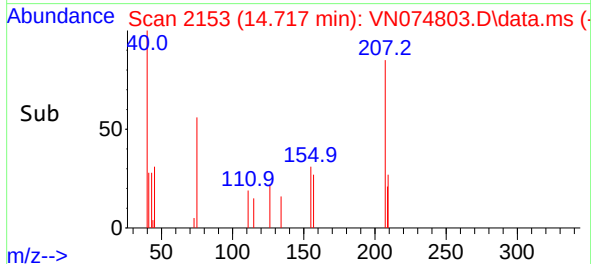
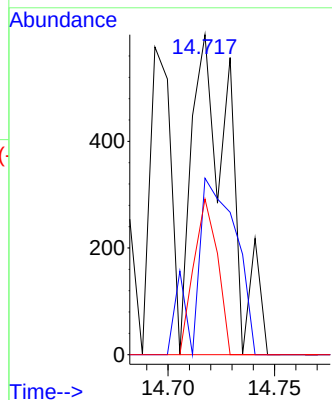
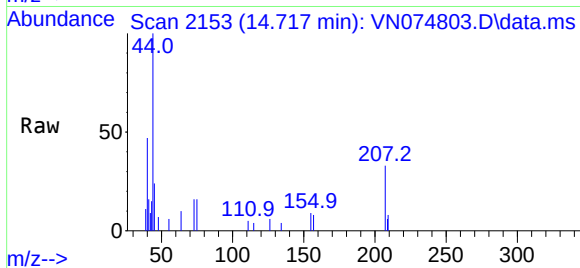




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.393 ug/l
 RT: 14.717 min Scan# 2153
 Delta R.T. -0.006 min
 Lab File: VN074803.D
 Acq: 07 Oct 2022 11:54

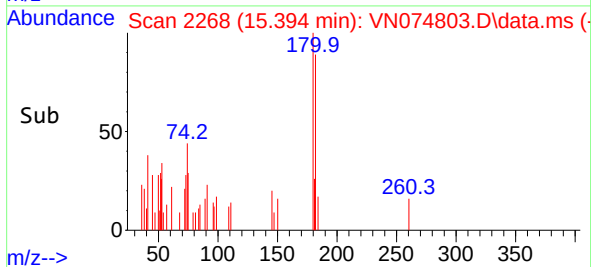
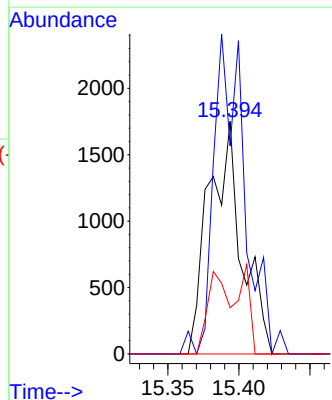
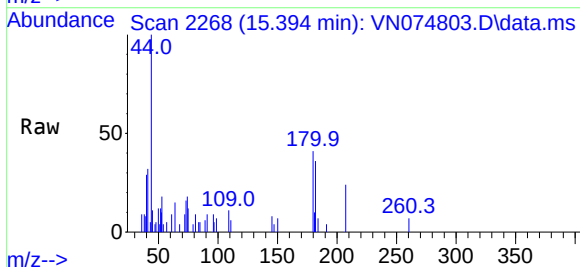
Instrument :
 MSVOA_N
 ClientSampleId :
 257155-4

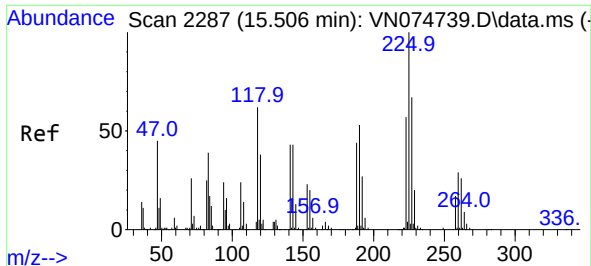
Tgt Ion: 75 Resp: 744
 Ion Ratio Lower Upper
 75 100
 155 58.6 40.3 120.8
 157 30.4 51.3 153.9#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.743 ug/l
 RT: 15.394 min Scan# 2268
 Delta R.T. -0.000 min
 Lab File: VN074803.D
 Acq: 07 Oct 2022 11:54

Tgt Ion:180 Resp: 2837
 Ion Ratio Lower Upper
 180 100
 182 127.8 48.5 145.5
 145 35.3 16.1 48.3

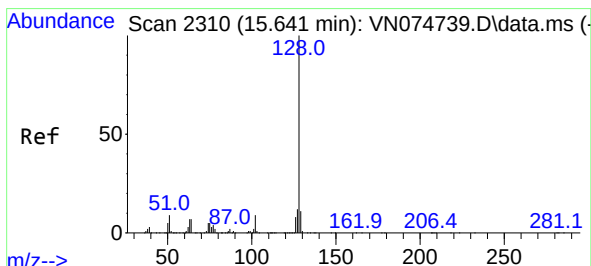
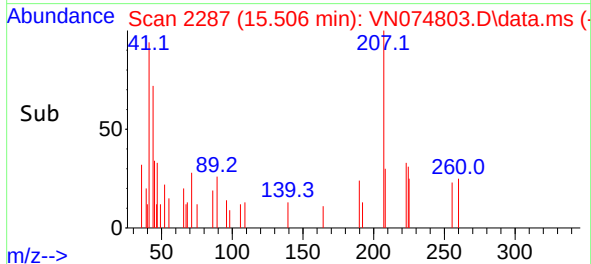
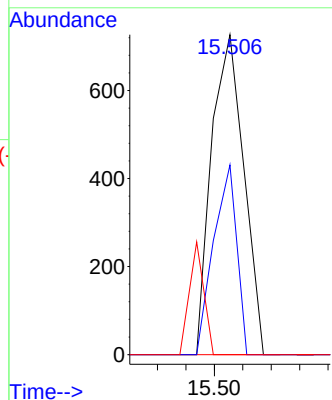
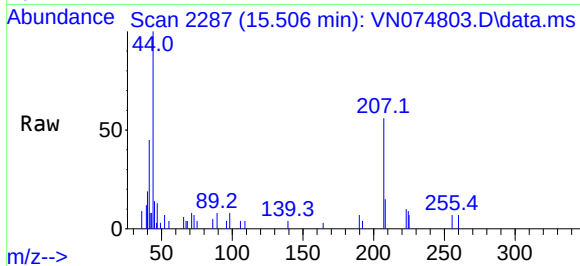




#94
Hexachlorobutadiene
Concen: 0.322 ug/l
RT: 15.506 min Scan# 21
Delta R.T. -0.001 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Instrument :
MSVOA_N
ClientSampleId :
257155-4

Tgt Ion:	225	Resp:	574
Ion	Ratio	Lower	Upper
225	100		
223	42.3	31.7	95.1
227	15.7	31.2	93.6#



#95
Naphthalene
Concen: 1.342 ug/l
RT: 15.641 min Scan# 2310
Delta R.T. -0.000 min
Lab File: VN074803.D
Acq: 07 Oct 2022 11:54

Tgt Ion:	128	Resp:	22137
Ion	Ratio	Lower	Upper
128	100		
127	15.2	10.2	15.2#
129	14.5	9.0	13.4#

