

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021722\
 Data File : VN070976.D
 Acq On : 17 Feb 2022 13:49
 Operator : JC\MD
 Sample : N1581-24 40X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20220215

Quant Time: Feb 18 00:44:25 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021522W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 16 07:52:42 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.081	168	819654	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	1284383	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	1127323	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.674	152	399057	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.433	65	483071	51.593	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	= 103.180%	
35) Dibromofluoromethane	8.022	113	382052	50.010	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	= 100.020%	
50) Toluene-d8	10.439	98	1521916	49.607	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	= 99.220%	
62) 4-Bromofluorobenzene	12.727	95	448755	40.921	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	= 81.840%	

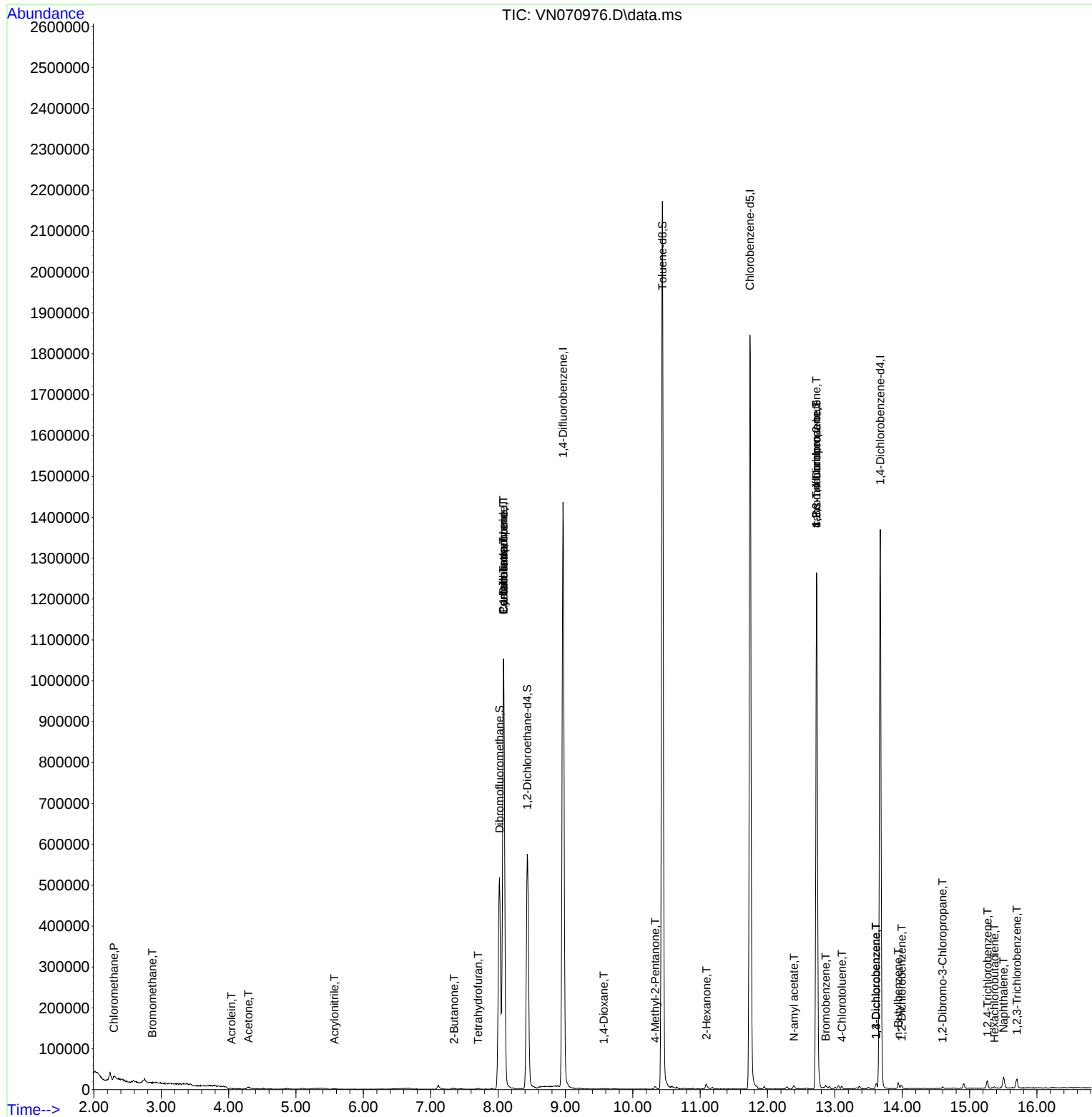
Target Compounds			Qvalue			
3) Chloromethane	2.299	50	2774	0.259	ug/l #	63
5) Bromomethane	2.869	94	2053	0.337	ug/l #	79
13) Acrolein	4.040	56	982	0.644	ug/l #	78
15) Acrylonitrile	5.569	53	1640	0.326	ug/l #	76
16) Acetone	4.293	43	4653	0.902	ug/l #	84
18) Methyl Acetate	4.863	43	4023	Below Cal	#	72
25) 2-Butanone	7.345	43	3395	0.495	ug/l	95
29) Tetrahydrofuran	7.704	42	1670	0.376	ug/l #	81
31) Cyclohexane	8.081	56	16521	1.020	ug/l #	8
36) 1,1-Dichloropropene	8.081	75	60496	4.833	ug/l #	50
38) Carbon Tetrachloride	8.081	117	78066	6.330	ug/l #	17
49) 1,4-Dioxane	9.569	88	361	2.030	ug/l #	2
51) 4-Methyl-2-Pentanone	10.333	43	5166	0.401	ug/l	93
59) 2-Hexanone	11.092	43	10233	1.156	ug/l	99
74) N-amyl acetate	12.392	43	5995	0.584	ug/l	95
76) 1,2,3-Trichloropropane	12.727	75	225183	23.966	ug/l #	1
77) Bromobenzene	12.863	156	1799	0.229	ug/l	88
81) trans-1,4-Dichloro-2-b...	12.727	75	225183	77.662	ug/l #	5
82) 4-Chlorotoluene	13.104	91	4326	0.203	ug/l	89
87) 1,3-Dichlorobenzene	13.610	146	3927	0.282	ug/l	100
88) 1,4-Dichlorobenzene	13.610	146	3927	0.288	ug/l	100
89) n-Butylbenzene	13.939	91	8463	0.389	ug/l	95
91) 1,2-Dichlorobenzene	13.992	146	4250	0.325	ug/l	87
92) 1,2-Dibromo-3-Chloropr...	14.598	75	1132	0.684	ug/l	80
93) 1,2,4-Trichlorobenzene	15.268	180	6705	2.875	ug/l	99
94) Hexachlorobutadiene	15.368	225	1234	0.259	ug/l	83
95) Naphthalene	15.504	128	27485	6.376	ug/l	99
96) 1,2,3-Trichlorobenzene	15.704	180	9377	3.831	ug/l	94

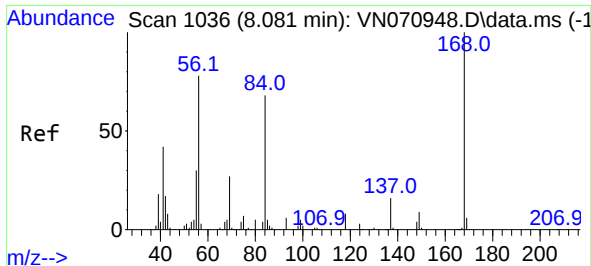
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration

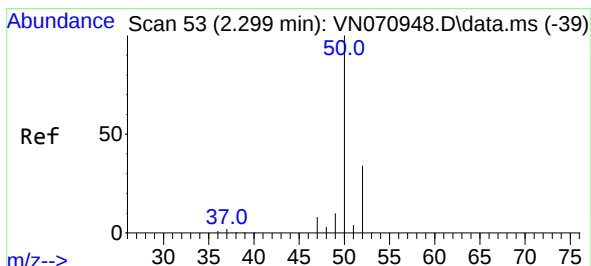
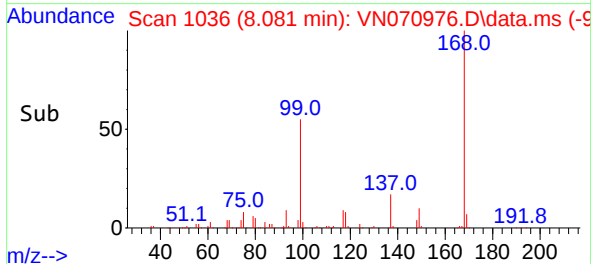
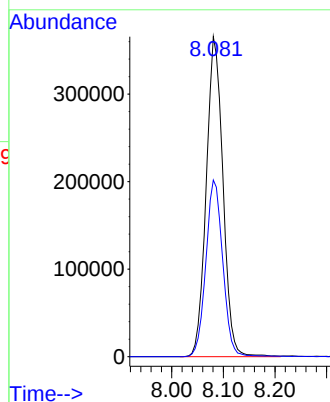
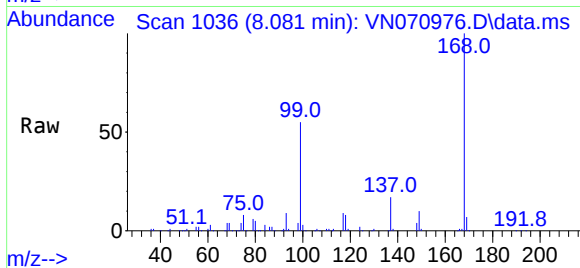




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

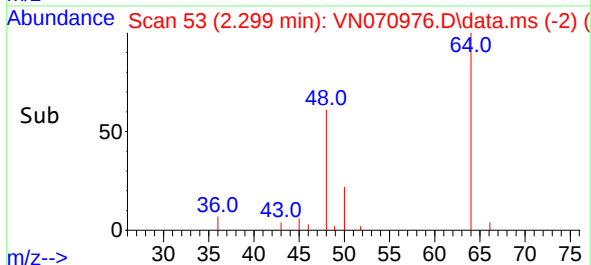
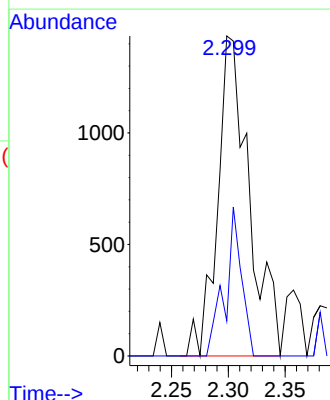
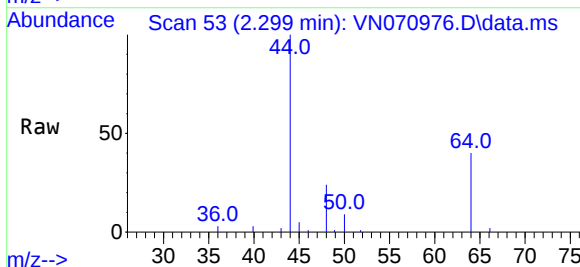
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MSVOA_N
ClientSampleId :
DUP01-20220215

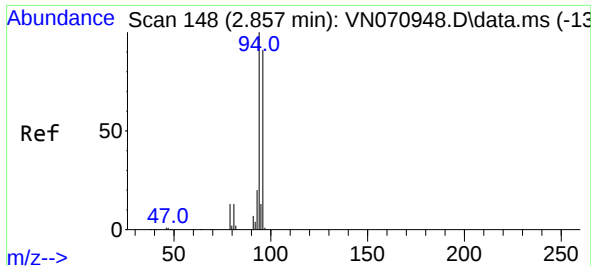
Tgt Ion:168 Resp: 819654
Ion Ratio Lower Upper
168 100
99 55.2 41.3 61.9



#3
Chloromethane
Concen: 0.259 ug/l
RT: 2.299 min Scan# 53
Delta R.T. -0.000 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion: 50 Resp: 2774
Ion Ratio Lower Upper
50 100
52 10.9 25.4 38.0#

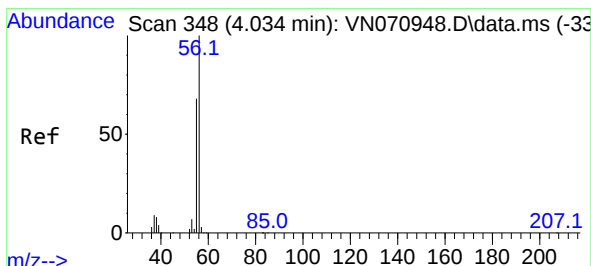
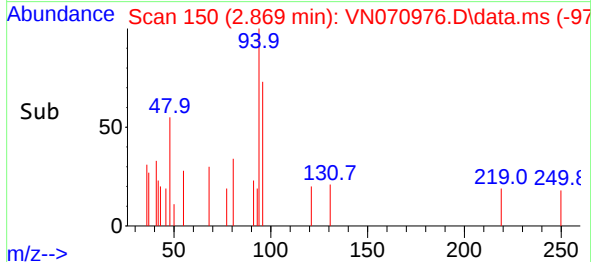
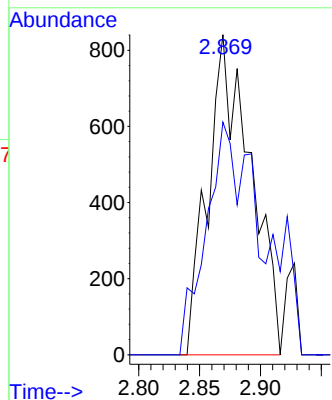
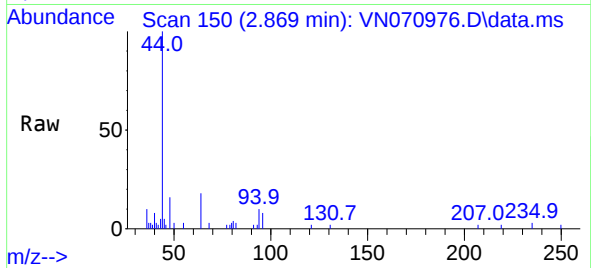




#5
Bromomethane
Concen: 0.337 ug/l
RT: 2.869 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

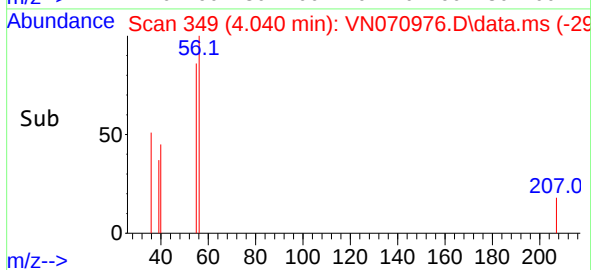
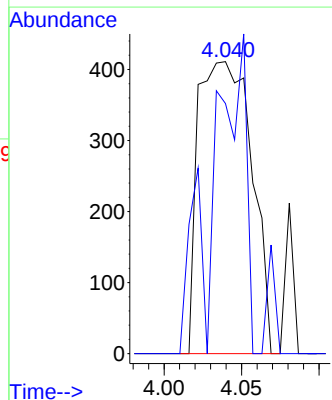
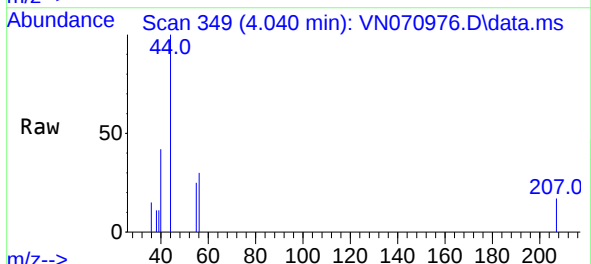
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20220215

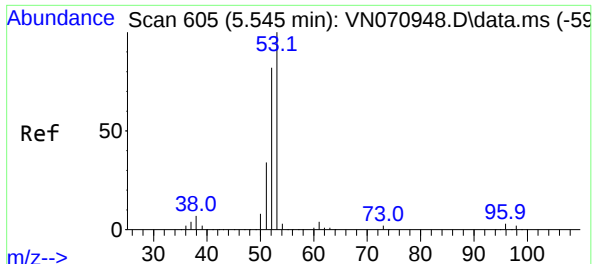
Tgt Ion: 94 Resp: 2053
Ion Ratio Lower Upper
94 100
96 72.7 73.8 110.8#



#13
Acrolein
Concen: 0.644 ug/l
RT: 4.040 min Scan# 349
Delta R.T. 0.006 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion: 56 Resp: 982
Ion Ratio Lower Upper
56 100
55 53.0 56.6 85.0#

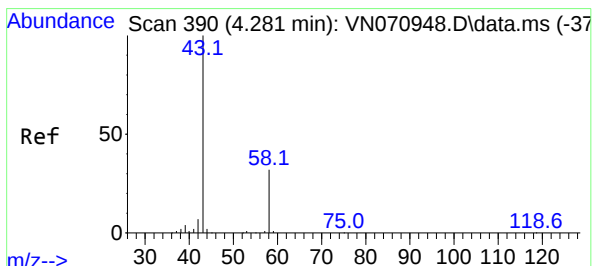
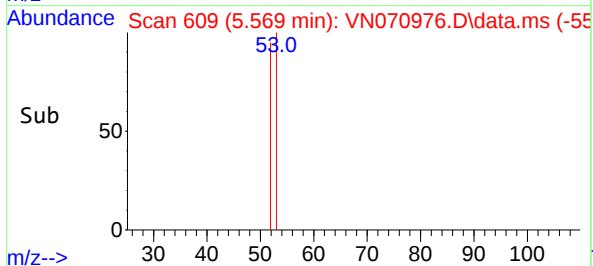
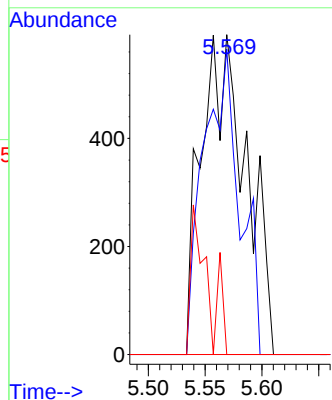
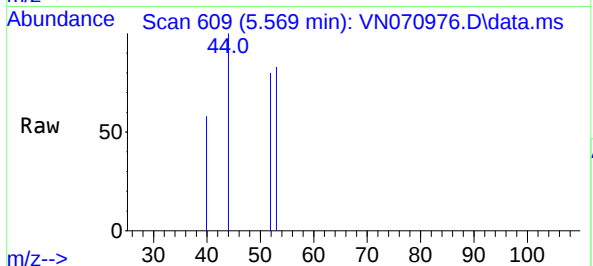




#15
Acrylonitrile
Concen: 0.326 ug/l
RT: 5.569 min Scan# 609
Delta R.T. 0.023 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

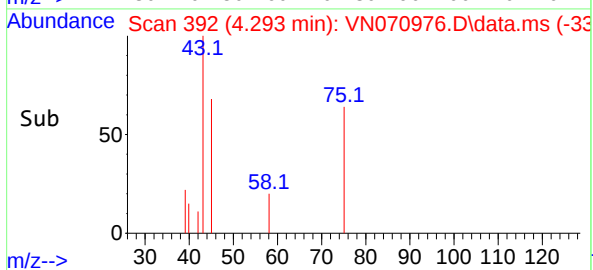
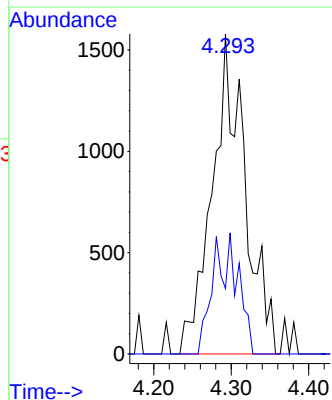
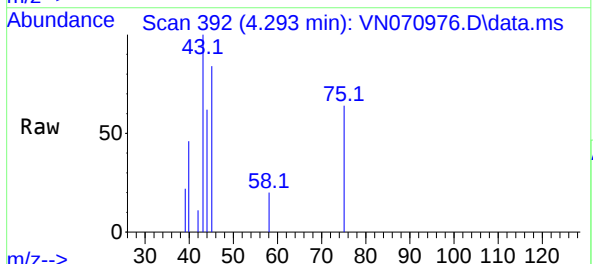
Instrument :
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DUP01-20220215

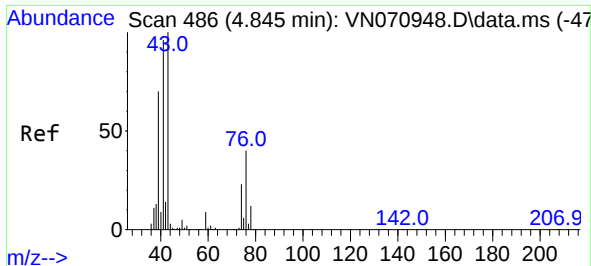
Tgt Ion: 53 Resp: 1640
Ion Ratio Lower Upper
53 100
52 76.3 66.2 99.2
51 0.0 29.6 44.4#



#16
Acetone
Concen: 0.902 ug/l
RT: 4.293 min Scan# 392
Delta R.T. 0.012 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion: 43 Resp: 4653
Ion Ratio Lower Upper
43 100
58 20.5 23.1 34.7#

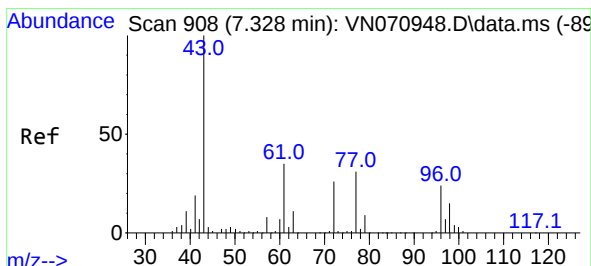
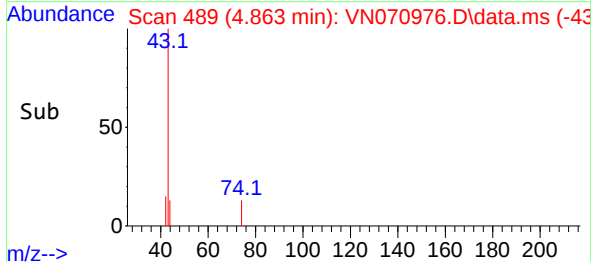
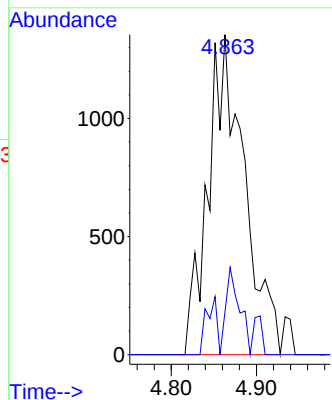
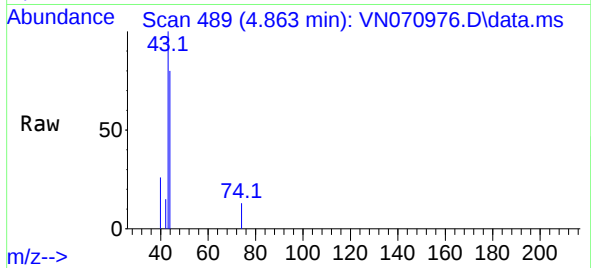




#18
Methyl Acetate
Concen: Below Cal
RT: 4.863 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

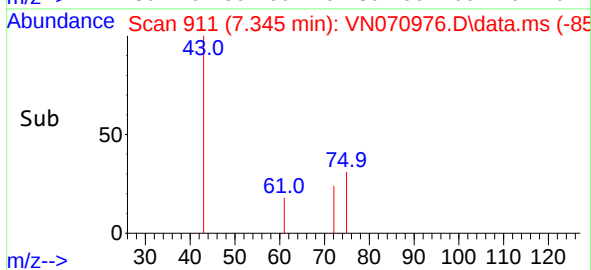
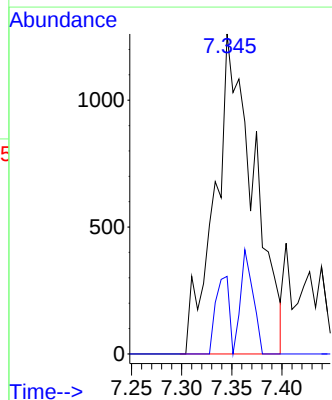
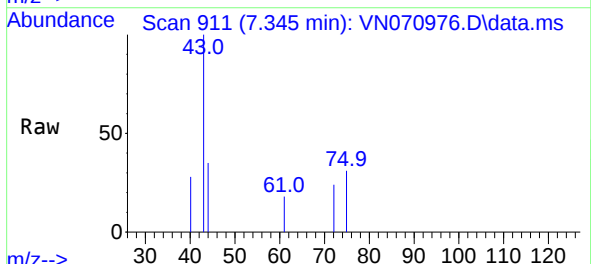
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ClientSampleId :
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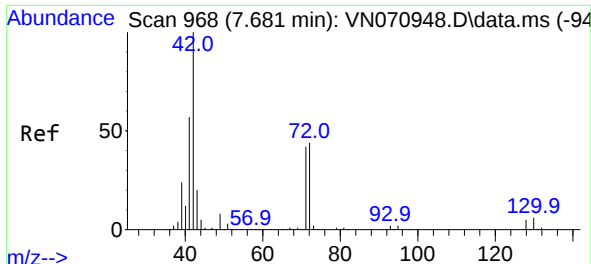
Tgt Ion: 43 Resp: 4023
Ion Ratio Lower Upper
43 100
74 10.2 19.4 29.2#



#25
2-Butanone
Concen: 0.495 ug/l
RT: 7.345 min Scan# 911
Delta R.T. 0.018 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion: 43 Resp: 3395
Ion Ratio Lower Upper
43 100
72 24.3 21.7 32.5

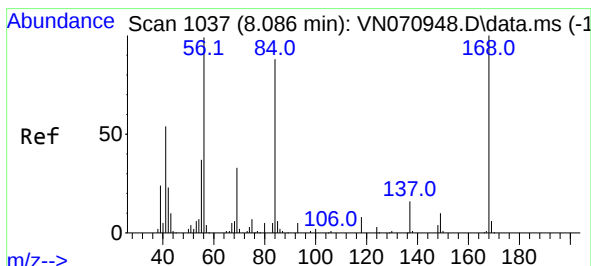
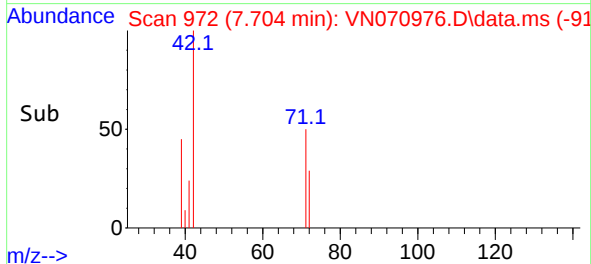
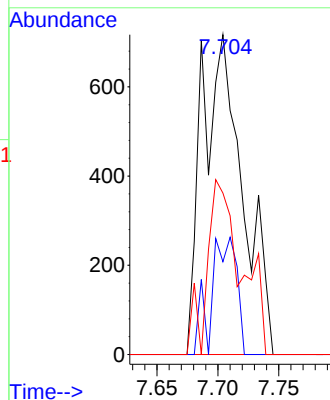
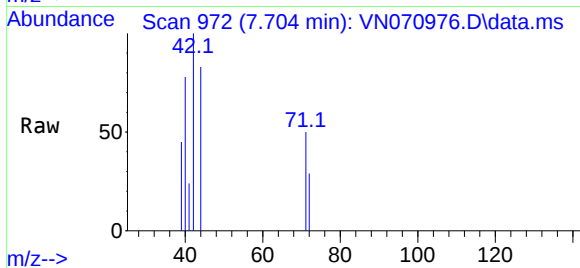




#29
Tetrahydrofuran
Concen: 0.376 ug/l
RT: 7.704 min Scan# 91
Delta R.T. 0.023 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

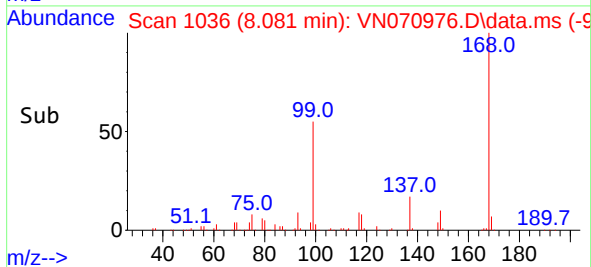
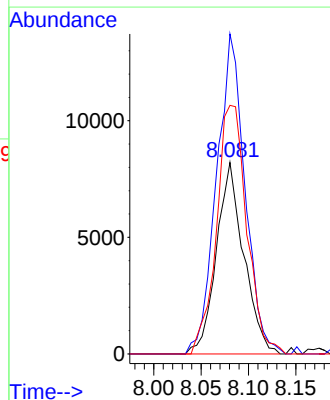
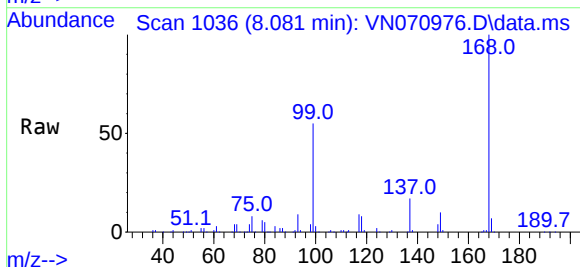
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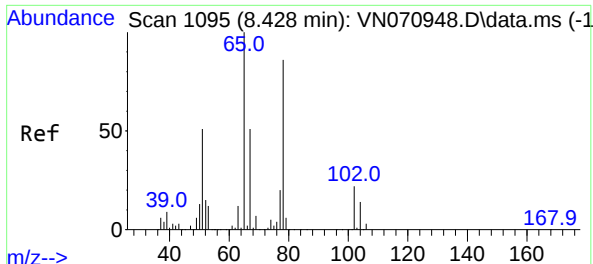
Tgt Ion:	42	Resp:	1670
Ion	Ratio	Lower	Upper
42	100		
72	23.2	36.3	54.5#
71	46.2	34.7	52.1



#31
Cyclohexane
Concen: 1.020 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.006 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion:	56	Resp:	16521
Ion	Ratio	Lower	Upper
56	100		
69	167.1	27.1	40.7#
84	129.8	73.4	110.0#

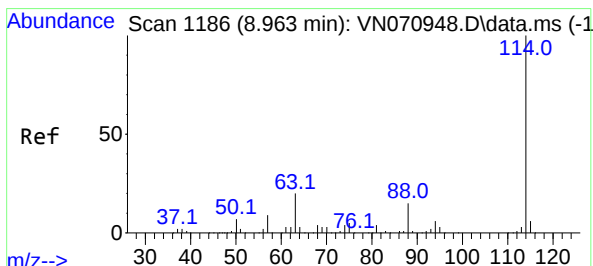
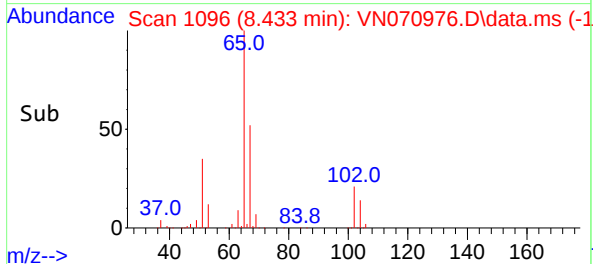
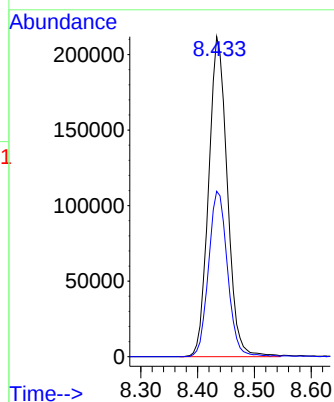
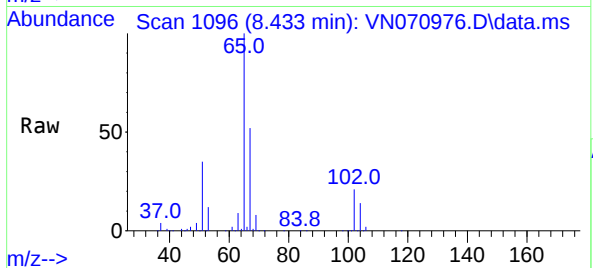




#33
1,2-Dichloroethane-d4
Concen: 51.593 ug/l
RT: 8.433 min Scan# 1095
Delta R.T. 0.006 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

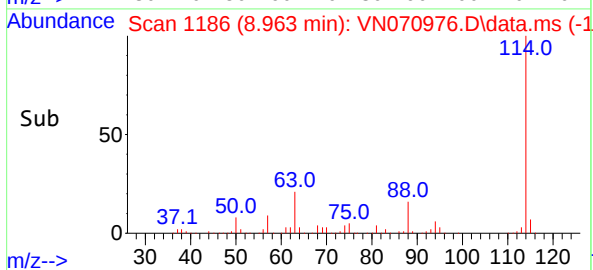
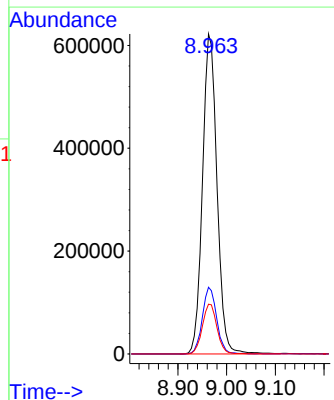
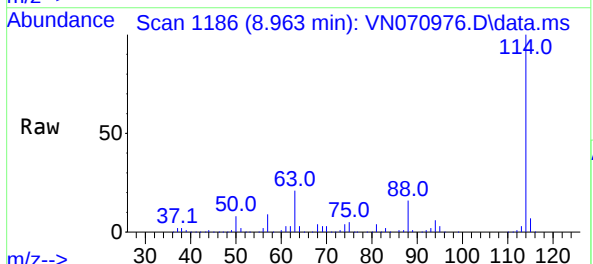
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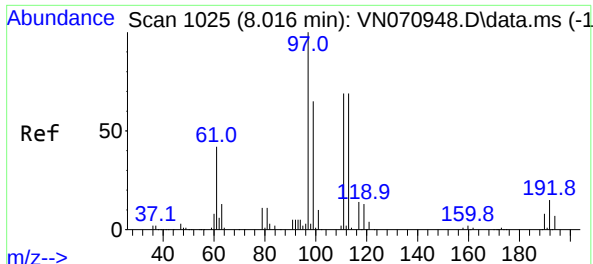
Tgt Ion: 65 Resp: 483071
Ion Ratio Lower Upper
65 100
67 52.5 0.0 103.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.963 min Scan# 1186
Delta R.T. -0.000 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

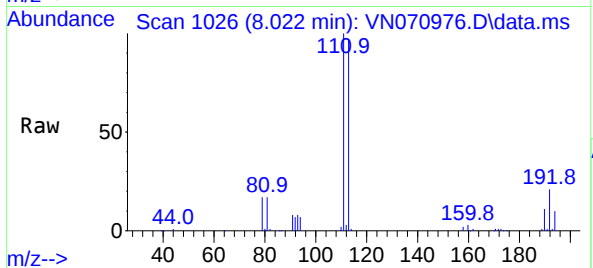
Tgt Ion: 114 Resp: 1284383
Ion Ratio Lower Upper
114 100
63 20.9 0.0 37.8
88 15.6 0.0 27.4



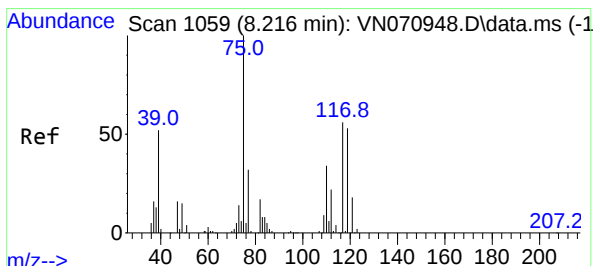
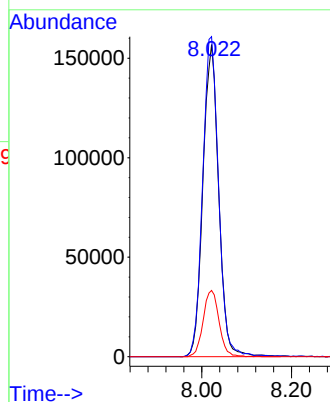
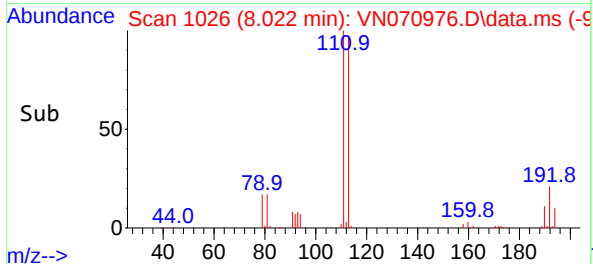


#35
Dibromofluoromethane
Concen: 50.010 ug/l
RT: 8.022 min Scan# 1026
Delta R.T. 0.006 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

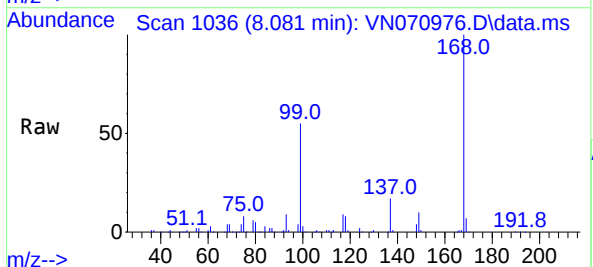
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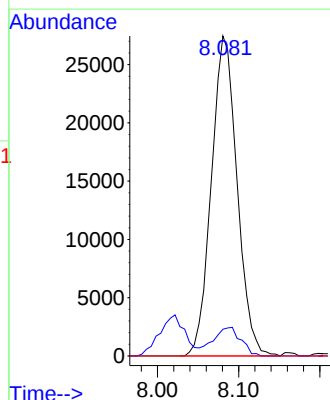
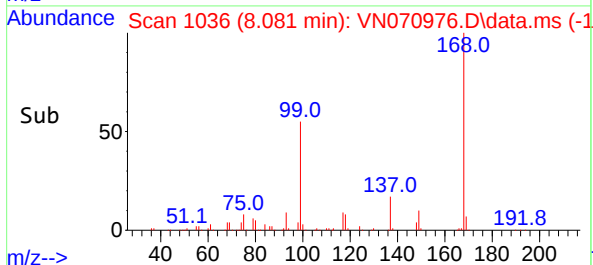
Tgt Ion:113 Resp: 382052
Ion Ratio Lower Upper
113 100
111 103.2 82.2 123.2
192 21.4 16.9 25.3

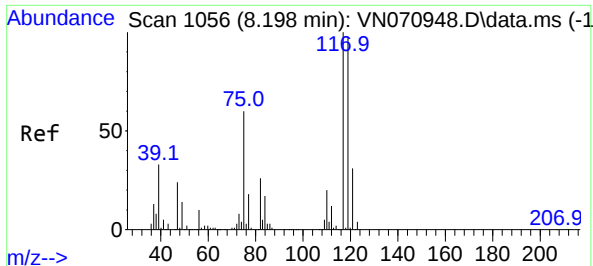


#36
1,1-Dichloropropene
Concen: 4.833 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.135 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49



Tgt Ion: 75 Resp: 60496
Ion Ratio Lower Upper
75 100
110 9.6 18.4 55.2#
77 0.0 24.4 36.6#

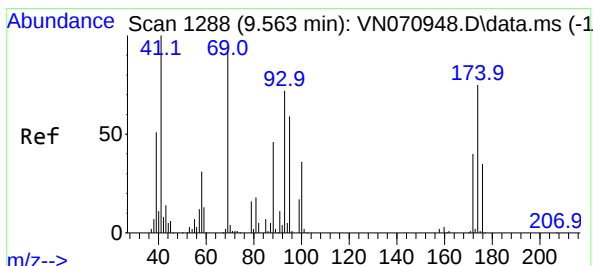
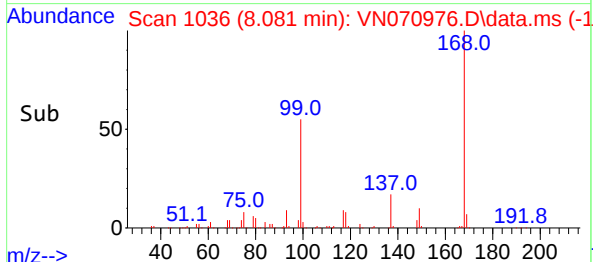
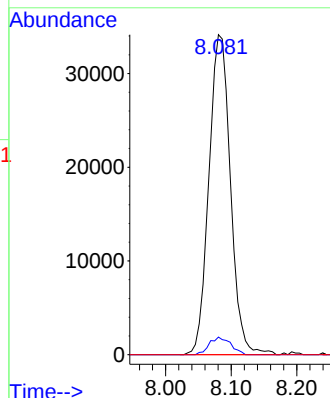
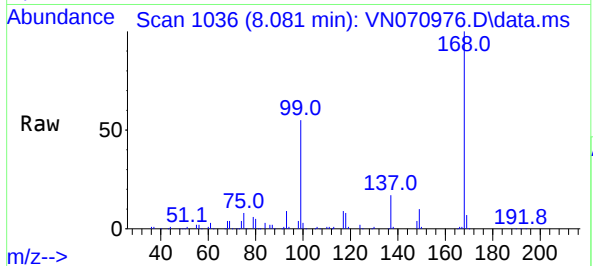




#38
Carbon Tetrachloride
Concen: 6.330 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.118 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

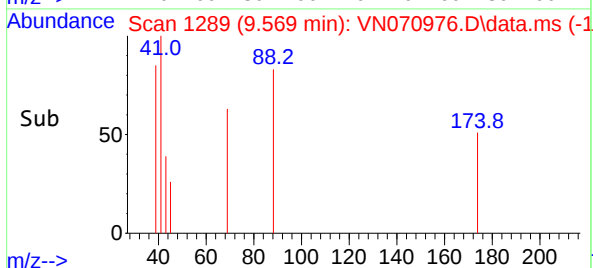
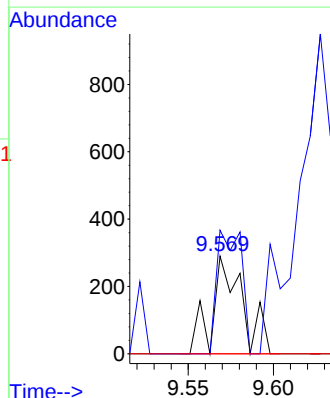
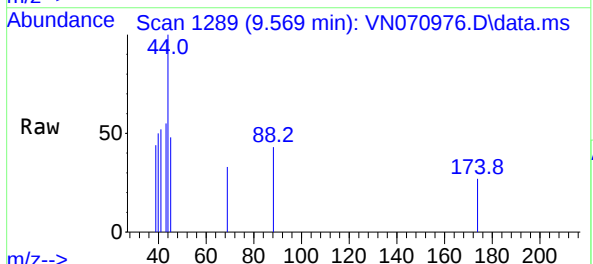
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20220215

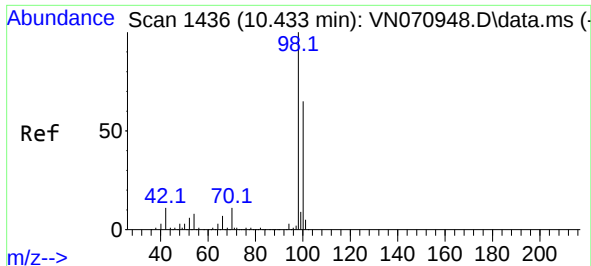
Tgt Ion:117 Resp: 78066
Ion Ratio Lower Upper
117 100
119 5.5 76.1 114.1#
121 0.0 24.2 36.2#



#49
1,4-Dioxane
Concen: 2.030 ug/l
RT: 9.569 min Scan# 1289
Delta R.T. 0.006 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion: 88 Resp: 361
Ion Ratio Lower Upper
88 100
43 101.4 23.4 35.2#
58 0.0 50.6 75.8#

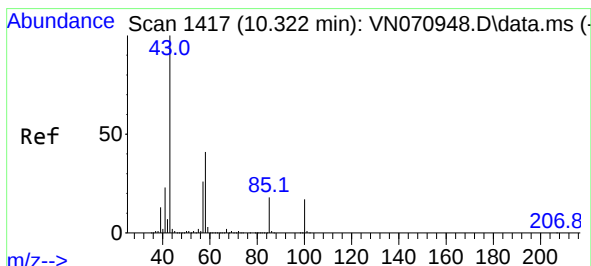
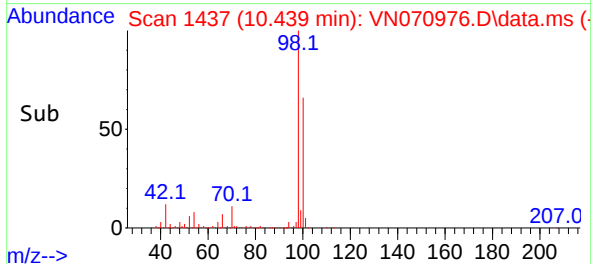
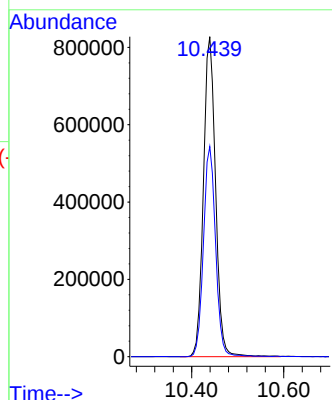
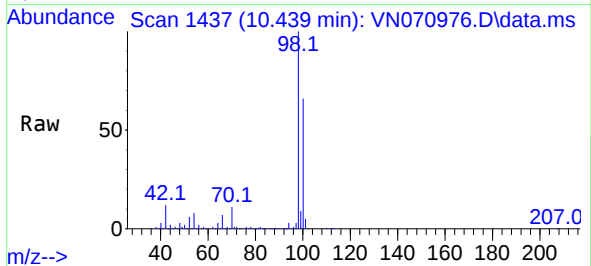




#50
Toluene-d8
Concen: 49.607 ug/l
RT: 10.439 min Scan# 1436
Delta R.T. 0.006 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

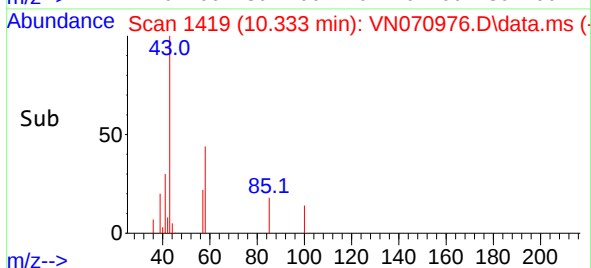
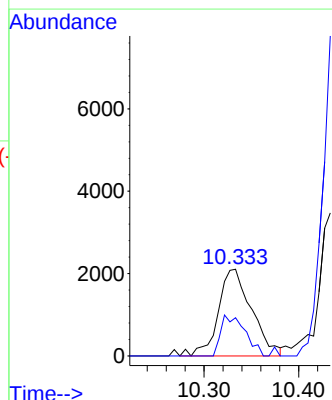
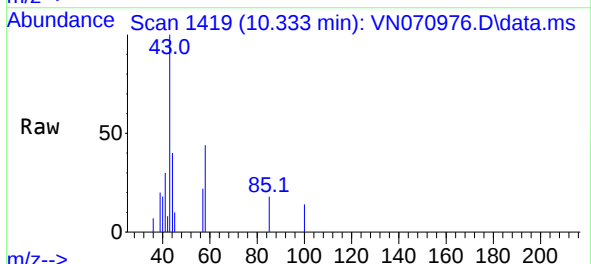
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20220215

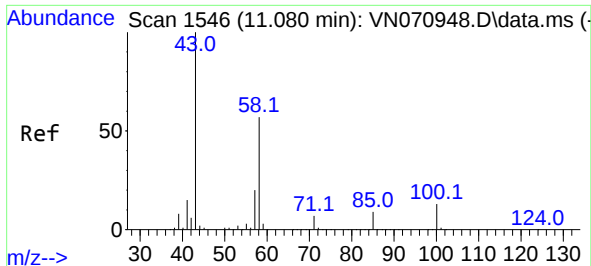
Tgt Ion: 98 Resp: 1521916
Ion Ratio Lower Upper
98 100
100 65.7 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.401 ug/l
RT: 10.333 min Scan# 1419
Delta R.T. 0.012 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion: 43 Resp: 5166
Ion Ratio Lower Upper
43 100
58 34.0 30.4 45.6

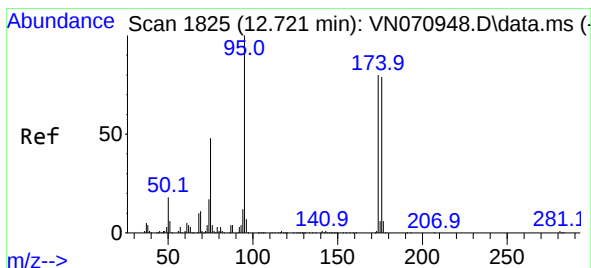
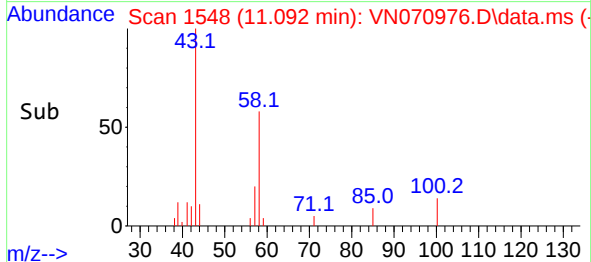
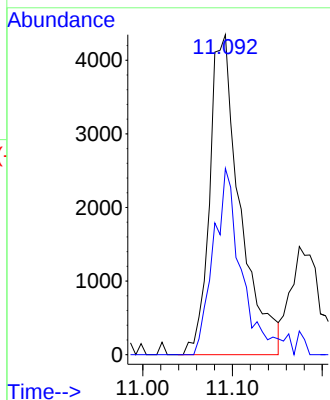
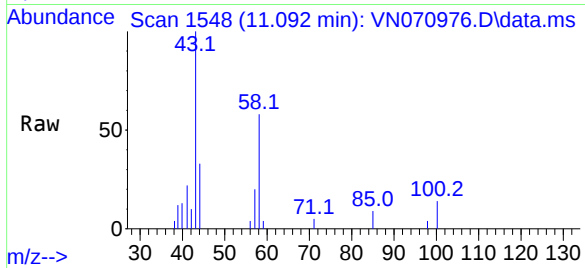




#59
2-Hexanone
Concen: 1.156 ug/l
RT: 11.092 min Scan# 11092
Delta R.T. 0.012 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

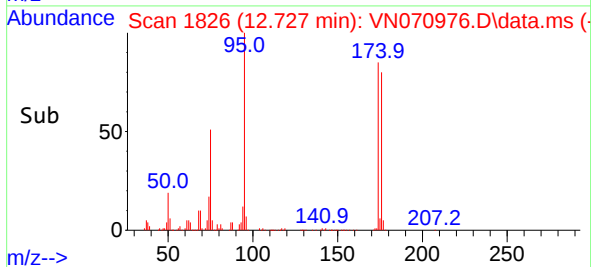
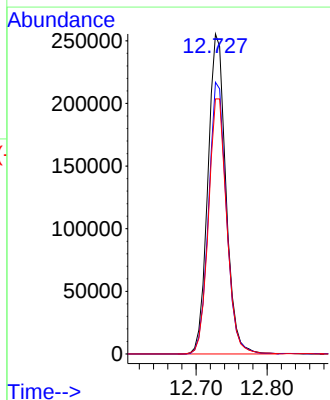
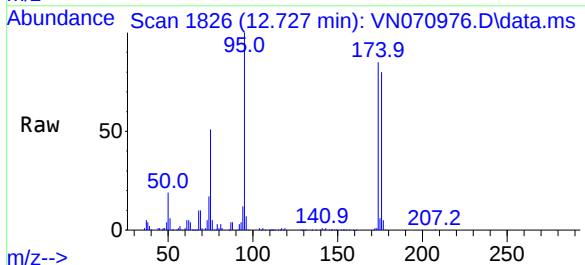
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20220215

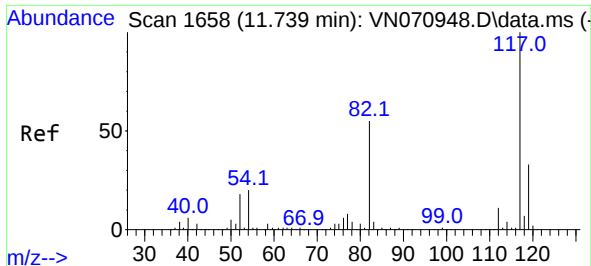
Tgt Ion: 43 Resp: 10233
Ion Ratio Lower Upper
43 100
58 54.3 26.9 80.7



#62
4-Bromofluorobenzene
Concen: 40.921 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.006 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion: 95 Resp: 448755
Ion Ratio Lower Upper
95 100
174 84.0 0.0 187.2
176 80.9 0.0 181.4

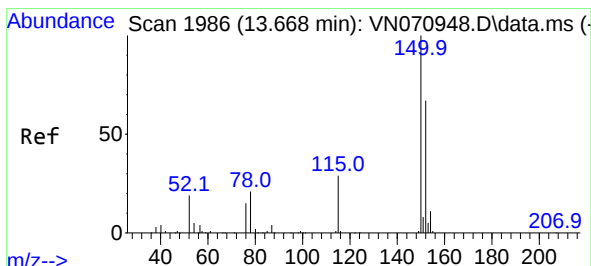
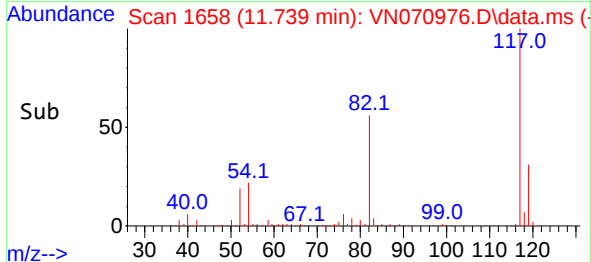
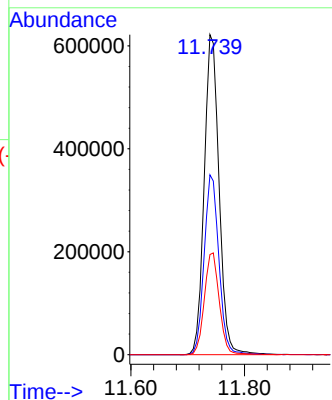
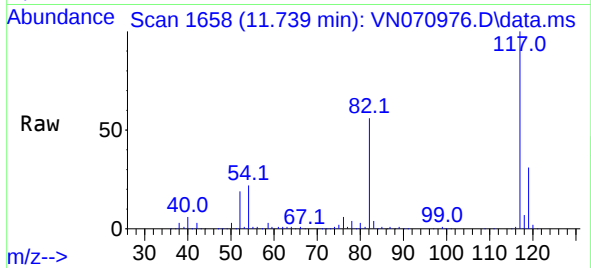




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

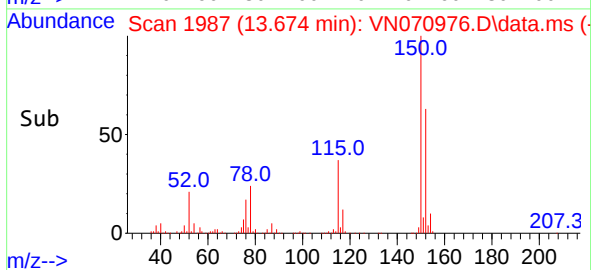
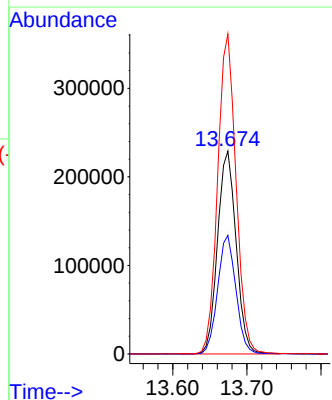
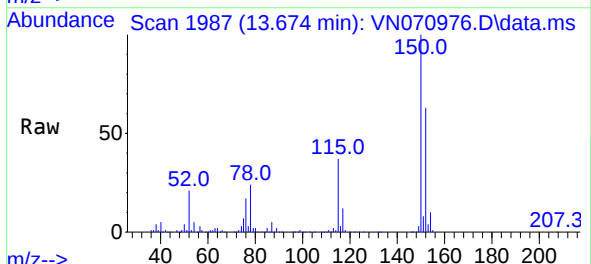
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20220215

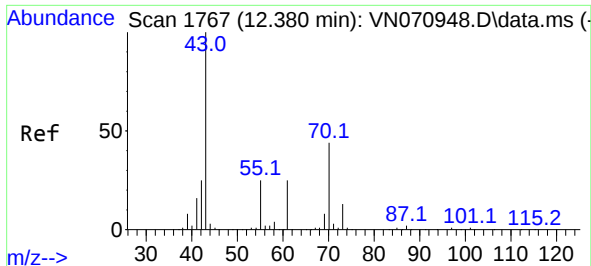
Tgt Ion:117 Resp: 1127323
Ion Ratio Lower Upper
117 100
82 56.2 42.4 63.6
119 31.3 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.674 min Scan# 1987
Delta R.T. 0.006 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion:152 Resp: 399057
Ion Ratio Lower Upper
152 100
115 57.6 27.5 82.5
150 156.2 0.0 344.4

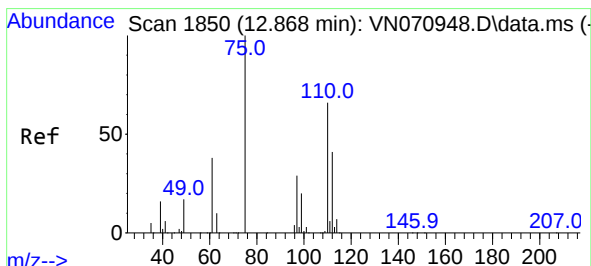
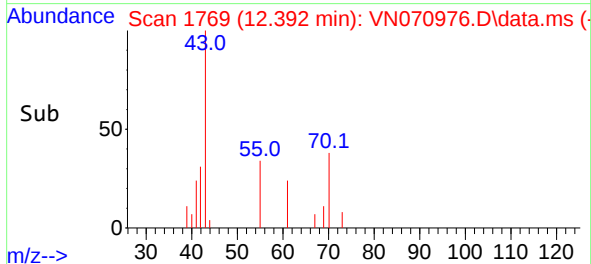
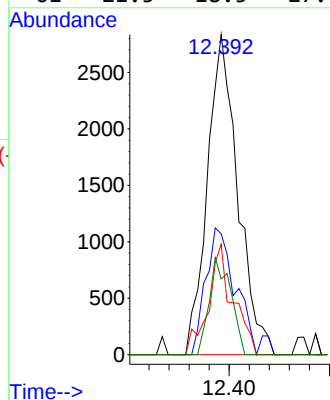
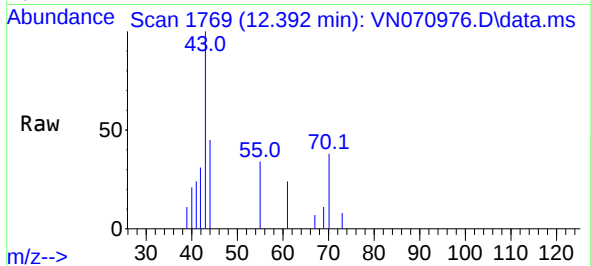




#74
N-amy1 acetate
Concen: 0.584 ug/l
RT: 12.392 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

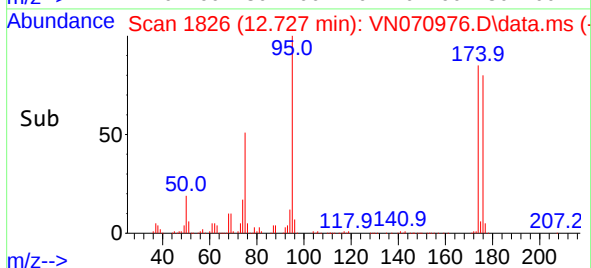
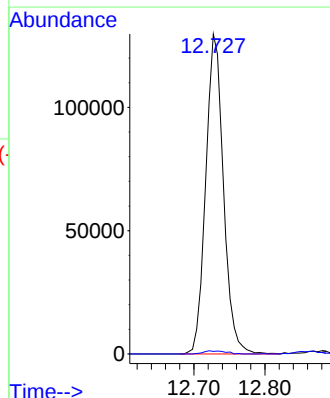
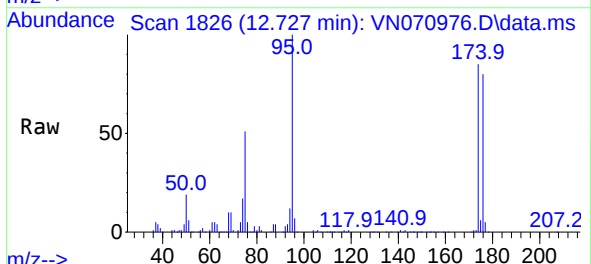
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20220215

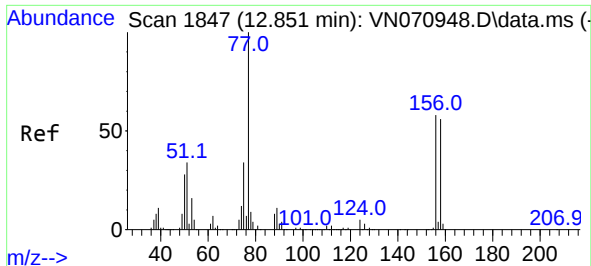
Tgt Ion:	43	Resp:	5995
Ion	Ratio	Lower	Upper
43	100		
70	38.3	33.4	50.0
55	27.8	19.3	28.9
61	21.5	18.5	27.7



#76
1,2,3-Trichloropropane
Concen: 23.966 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.141 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion:	75	Resp:	225183
Ion	Ratio	Lower	Upper
75	100		
77	1.2	82.6	247.8#

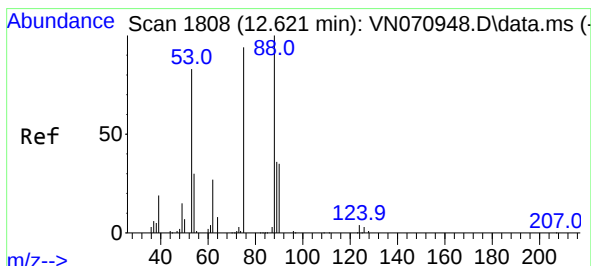
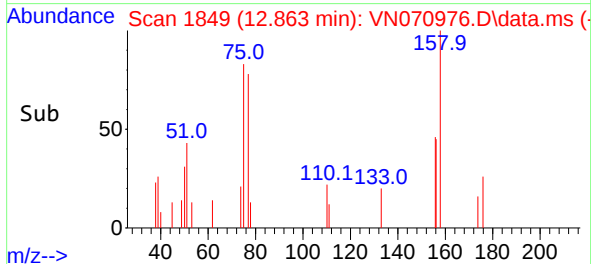
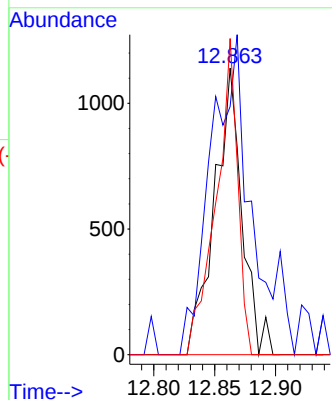
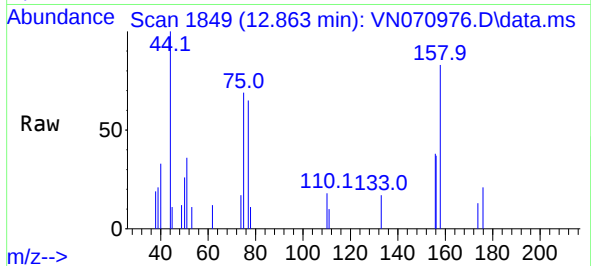




#77
Bromobenzene
Concen: 0.229 ug/l
RT: 12.863 min Scan# 1849
Delta R.T. 0.012 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

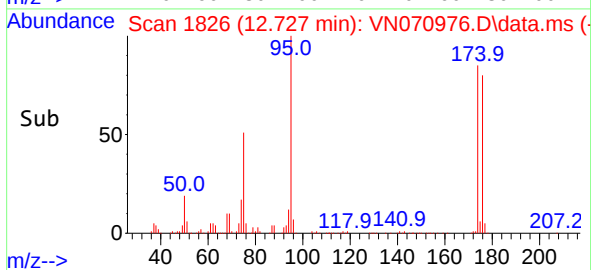
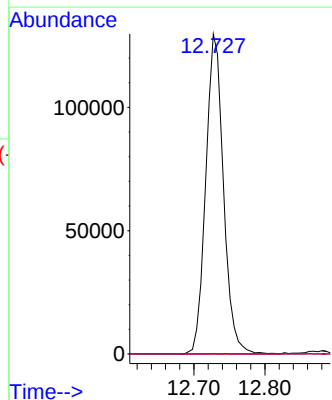
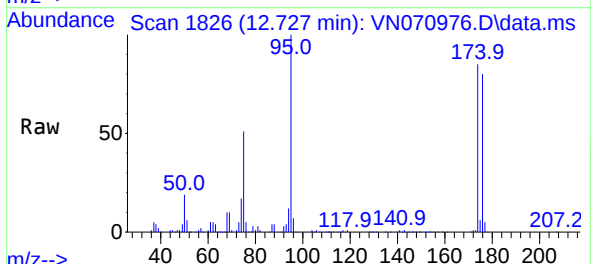
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20220215

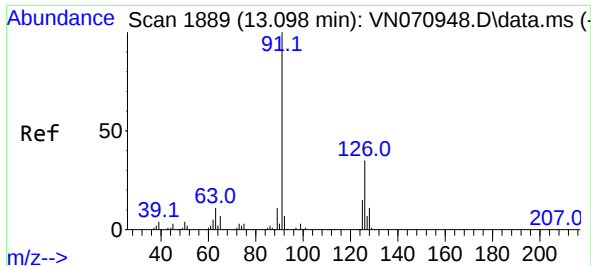
Tgt Ion:156 Resp: 1799
Ion Ratio Lower Upper
156 100
77 163.9 90.6 271.8
158 86.6 48.9 146.7



#81
trans-1,4-Dichloro-2-butene
Concen: 77.662 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.106 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion: 75 Resp: 225183
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 38.2 57.4#

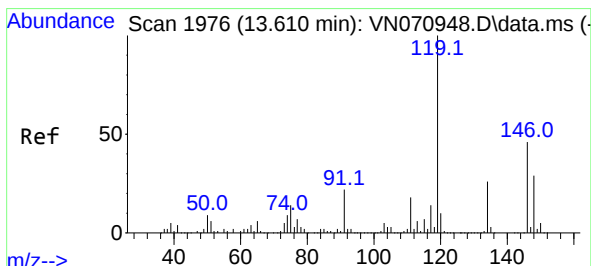
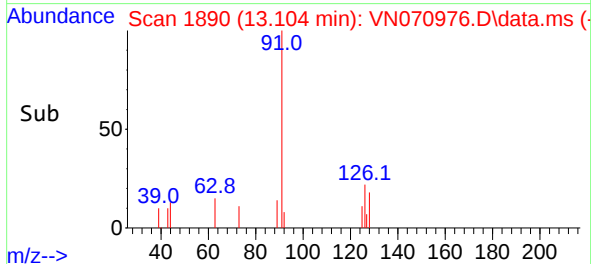
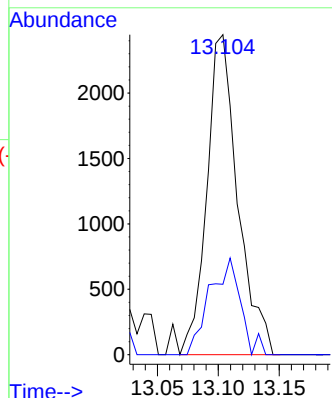
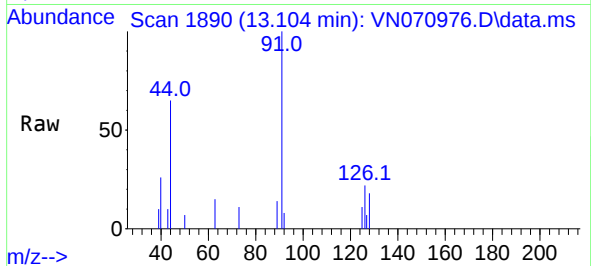




#82
4-Chlorotoluene
Concen: 0.203 ug/l
RT: 13.104 min Scan# 1889
Delta R.T. 0.006 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

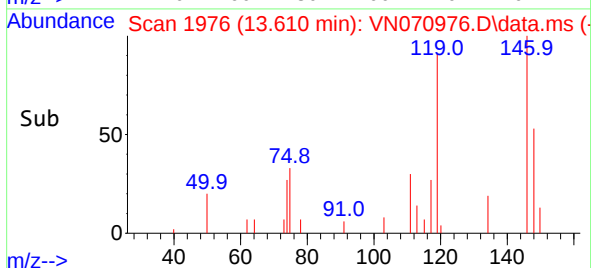
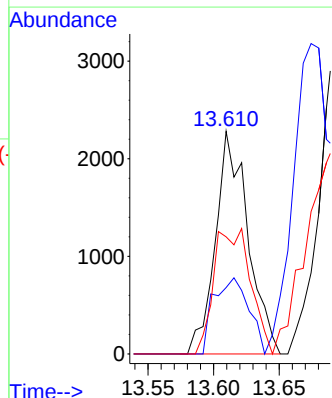
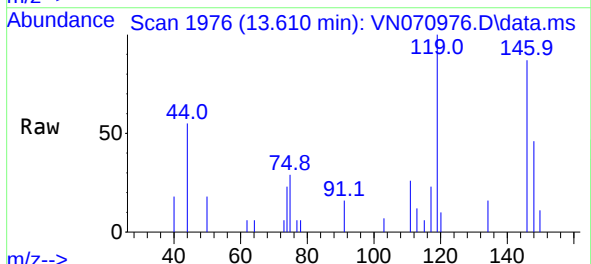
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20220215

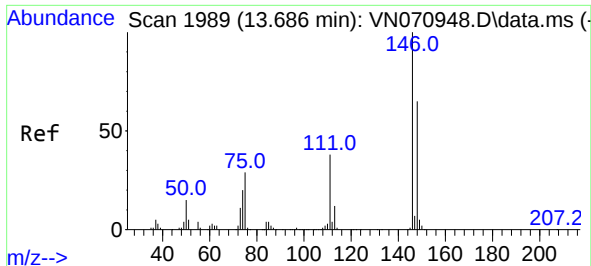
Tgt Ion: 91 Resp: 4326
Ion Ratio Lower Upper
91 100
126 30.0 18.2 54.6



#87
1,3-Dichlorobenzene
Concen: 0.282 ug/l
RT: 13.610 min Scan# 1976
Delta R.T. -0.000 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion: 146 Resp: 3927
Ion Ratio Lower Upper
146 100
111 36.8 18.6 55.6
148 63.6 31.6 95.0



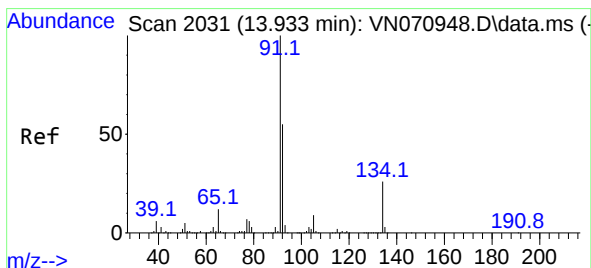
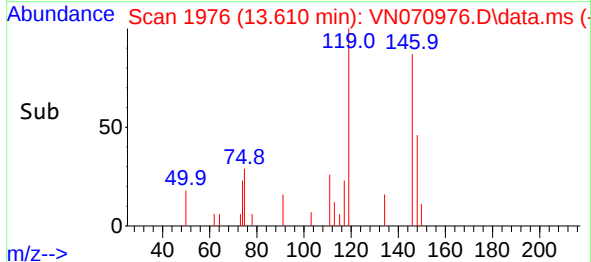
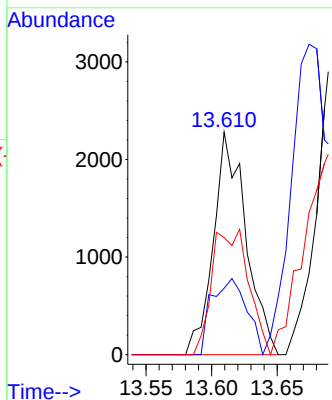
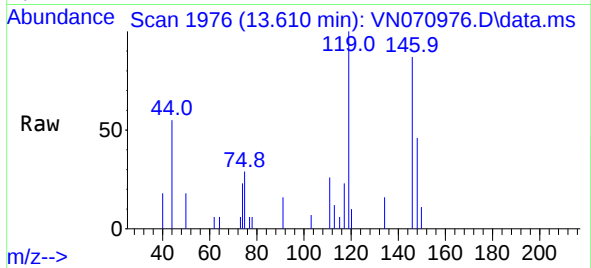


#88
1,4-Dichlorobenzene
Concen: 0.288 ug/l
RT: 13.610 min Scan# 1989
Delta R.T. -0.076 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Instrument :
MSVOA_N
ClientSampleId :
DUP01-20220215

Tgt Ion:146 Resp: 3927

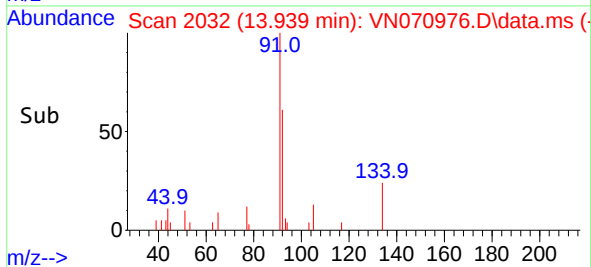
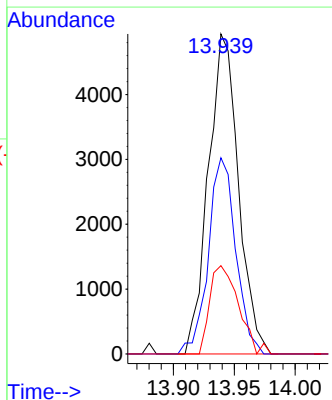
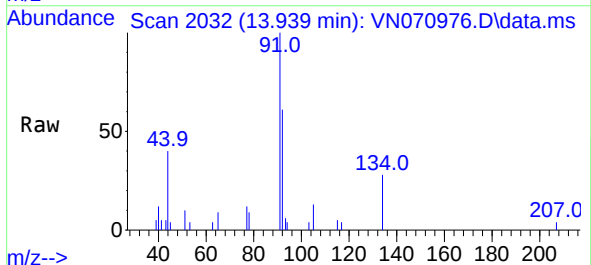
Ion	Ratio	Lower	Upper
146	100		
111	36.8	18.3	54.8
148	63.6	31.8	95.4

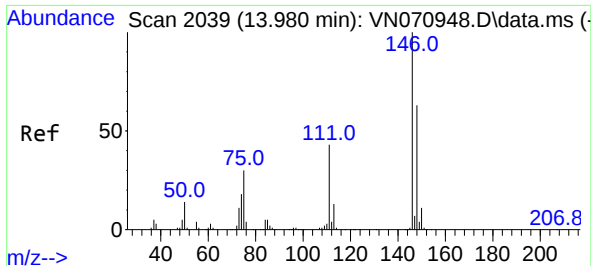


#89
n-Butylbenzene
Concen: 0.389 ug/l
RT: 13.939 min Scan# 2032
Delta R.T. 0.006 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion: 91 Resp: 8463

Ion	Ratio	Lower	Upper
91	100		
92	56.0	25.4	76.0
134	26.5	13.6	40.8

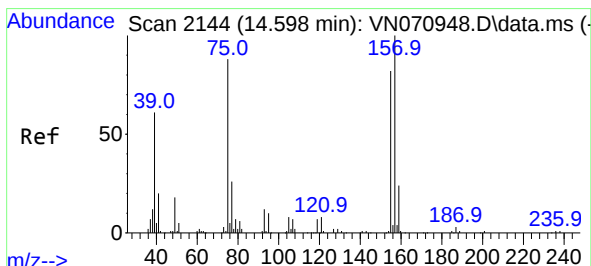
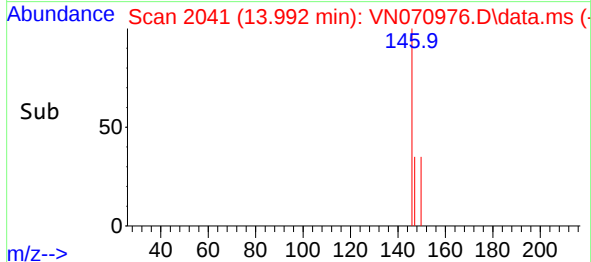
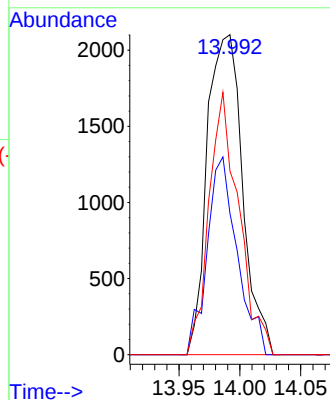
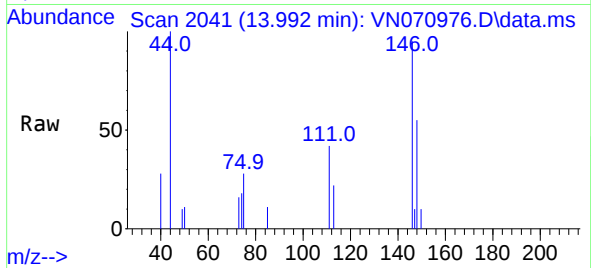




#91
1,2-Dichlorobenzene
Concen: 0.325 ug/l
RT: 13.992 min Scan# 2039
Delta R.T. 0.012 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

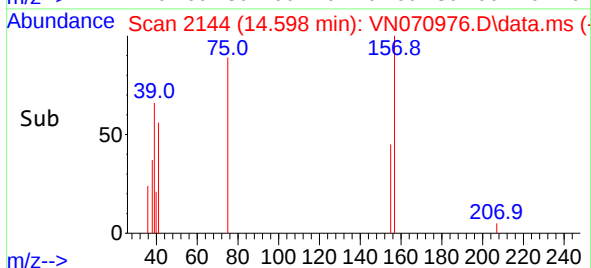
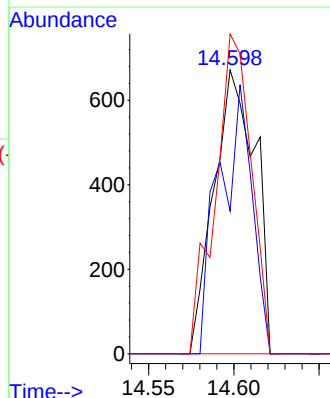
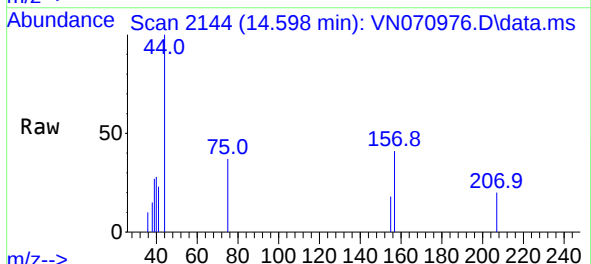
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20220215

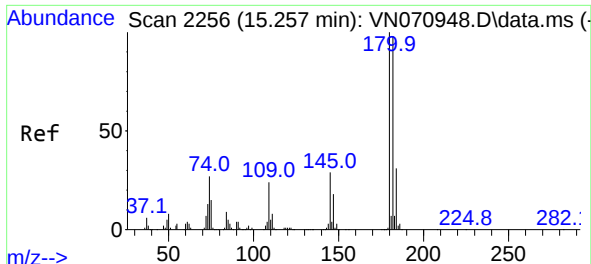
Tgt Ion:	146	Resp:	4250
Ion	Ratio	Lower	Upper
146	100		
111	52.5	19.1	57.3
148	69.2	32.1	96.3



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.684 ug/l
RT: 14.598 min Scan# 2144
Delta R.T. -0.000 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion:	75	Resp:	1132
Ion	Ratio	Lower	Upper
75	100		
155	75.5	46.9	140.7
157	98.1	60.6	181.7





#93

1,2,4-Trichlorobenzene

Concen: 2.875 ug/l

RT: 15.268 min Scan# 21

Delta R.T. 0.011 min

Lab File: VN070976.D

Acq: 17 Feb 2022 13:49

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20220215

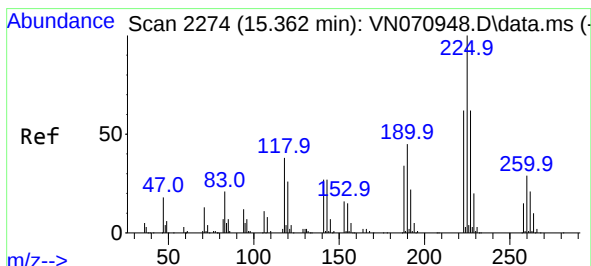
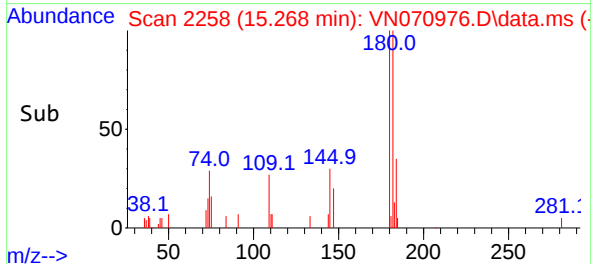
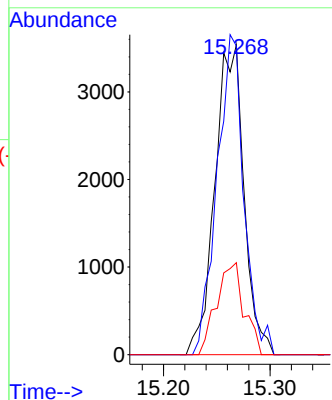
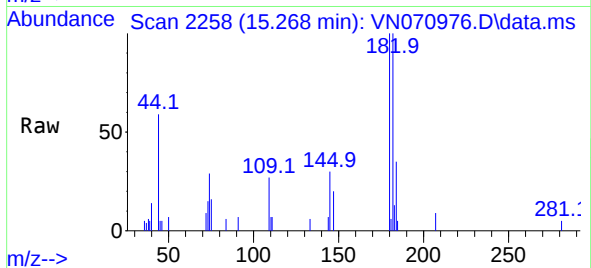
Tgt Ion:180 Resp: 6705

Ion Ratio Lower Upper

180 100

182 95.3 48.3 144.9

145 28.1 14.5 43.5



#94

Hexachlorobutadiene

Concen: 0.259 ug/l

RT: 15.368 min Scan# 2275

Delta R.T. 0.006 min

Lab File: VN070976.D

Acq: 17 Feb 2022 13:49

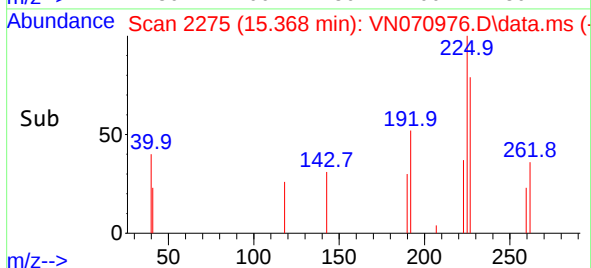
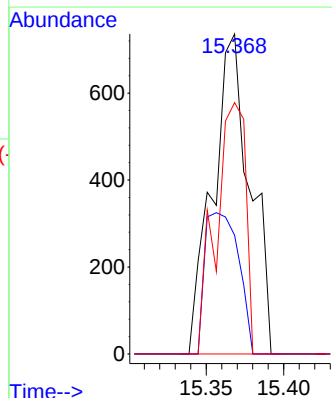
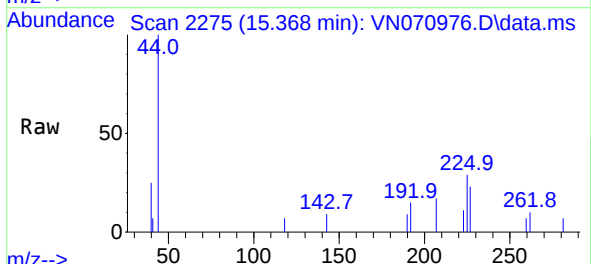
Tgt Ion:225 Resp: 1234

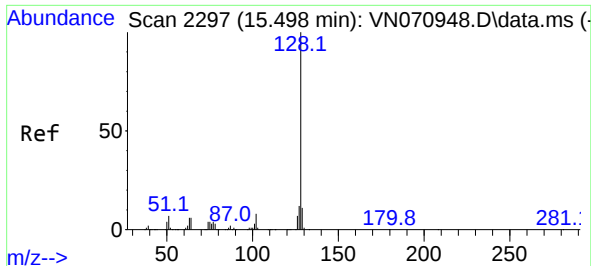
Ion Ratio Lower Upper

225 100

223 39.6 31.9 95.7

227 62.2 32.1 96.3

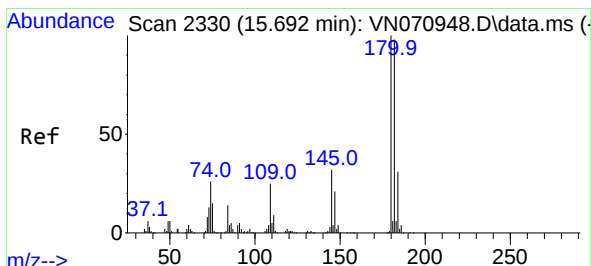
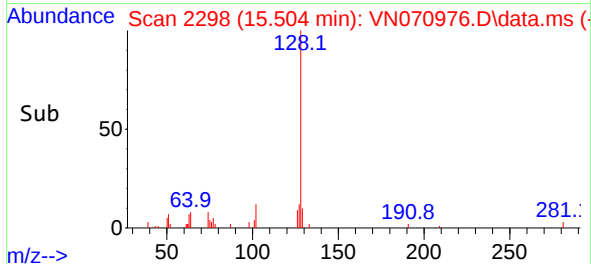
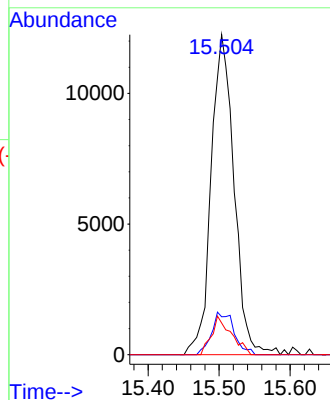
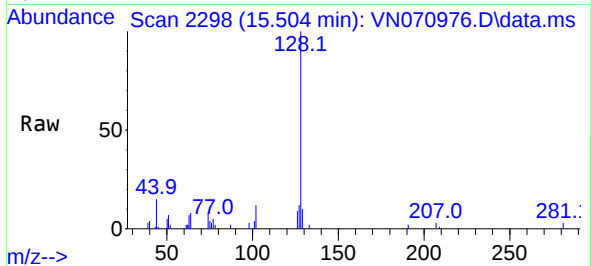




#95
Naphthalene
Concen: 6.376 ug/l
RT: 15.504 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Instrument :
MSVOA_N
ClientSampleId :
DUP01-20220215

Tgt Ion:	128	Resp:	27485
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.5	15.7
129	10.4	8.7	13.1



#96
1,2,3-Trichlorobenzene
Concen: 3.831 ug/l
RT: 15.704 min Scan# 2332
Delta R.T. 0.012 min
Lab File: VN070976.D
Acq: 17 Feb 2022 13:49

Tgt Ion:	180	Resp:	9377
Ion Ratio	Lower	Upper	
180	100		
182	87.7	47.4	142.2
145	28.4	15.0	45.1

