

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120321\
 Data File : VN069751.D
 Acq On : 4 Dec 2021 6:04
 Operator : JC/MD
 Sample : M4922-17
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D2-20211130

Quant Time: Dec 04 07:09:42 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)

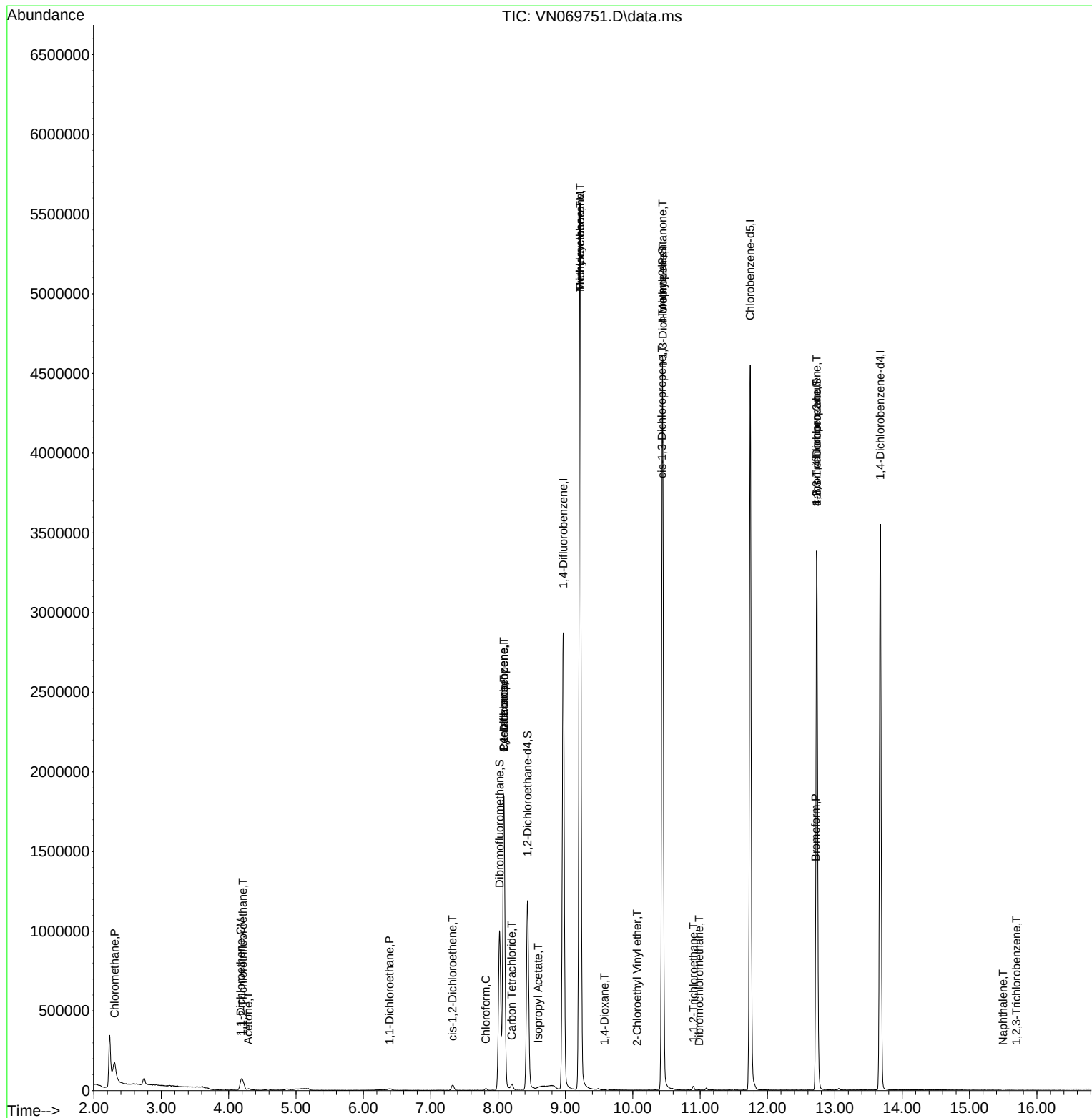
Internal Standards						
1) Pentafluorobenzene	8.086	168	1375989	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2435512	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2509365	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.675	152	955550	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.437	65	1042812	49.084	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	98.160%		
35) Dibromofluoromethane	8.024	113	720405	47.223	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	94.440%		
50) Toluene-d8	10.440	98	3116281	50.873	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	101.740%		
62) 4-Bromofluorobenzene	12.731	95	1175266	52.960	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	105.920%		
Target Compounds					Qvalue	
3) Chloromethane	2.306	50	8015	0.399	ug/l #	83
9) 1,1,2-Trichlorotrifluo...	4.210	101	28004	2.059	ug/l #	80
12) 1,1-Dichloroethene	4.181	96	27265	2.080	ug/l	90
16) Acetone	4.293	43	13083	1.024	ug/l	91
24) 1,1-Dichloroethane	6.388	63	8538	0.286	ug/l #	87
27) cis-1,2-Dichloroethene	7.324	96	18644	1.084	ug/l	95
30) Chloroform	7.817	83	9412	0.312	ug/l	97
31) Cyclohexane	8.088	56	35265	1.193	ug/l #	22
36) 1,1-Dichloropropene	8.088	75	117610	5.073	ug/l #	49
38) Carbon Tetrachloride	8.204	117	22507	0.990	ug/l	98
39) Methylcyclohexane	9.217	83	25980	0.942	ug/l #	1
43) Isopropyl Acetate	8.598	43	10886	0.213	ug/l #	55
44) Trichloroethene	9.217	130	1966464	116.257	ug/l	92
49) 1,4-Dioxane	9.579	88	467	1.092	ug/l #	54
51) 4-Methyl-2-Pentanone	10.443	43	17428	0.526	ug/l #	1
53) t-1,3-Dichloropropene	10.446	75	521	2.811	ug/l #	1
54) cis-1,3-Dichloropropene	10.432	75	443	2.013	ug/l #	1
55) 1,1,2-Trichloroethane	10.899	97	7298	0.418	ug/l	97
58) 2-Chloroethyl Vinyl ether	10.065	63	50	18.394	ug/l #	45
60) Dibromochloromethane	10.985	129	267	2.390	ug/l #	11
71) Bromoform	12.715	173	890	2.786	ug/l #	1
76) 1,2,3-Trichloropropane	12.731	75	660819	24.115	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	660819	76.576	ug/l #	5
95) Naphthalene	15.498	128	1061	4.006	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.694	180	243	2.451	ug/l #	77

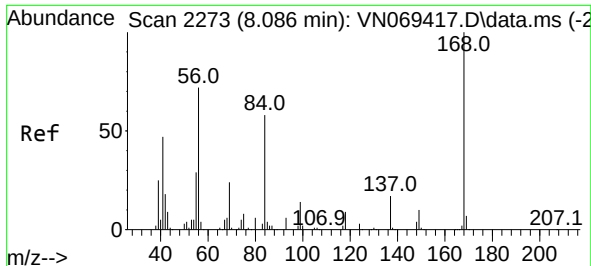
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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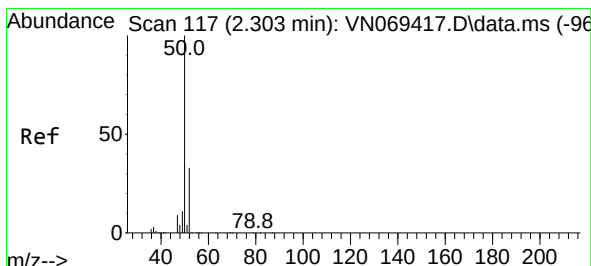
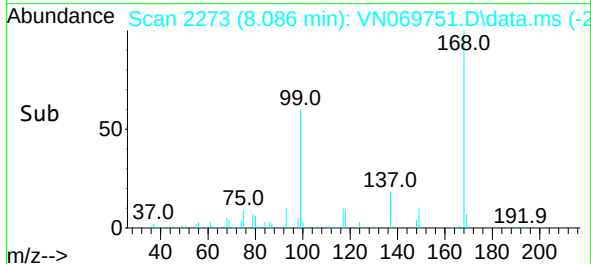
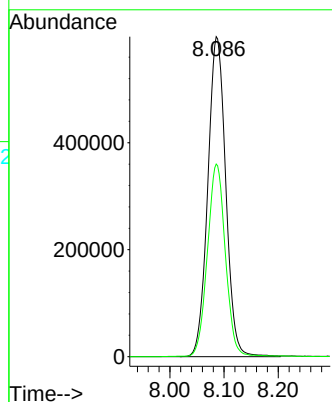
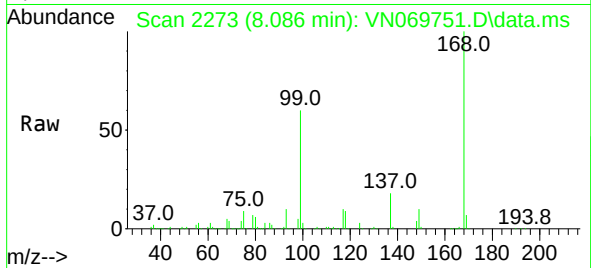




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

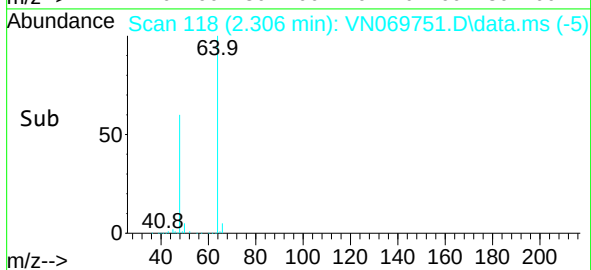
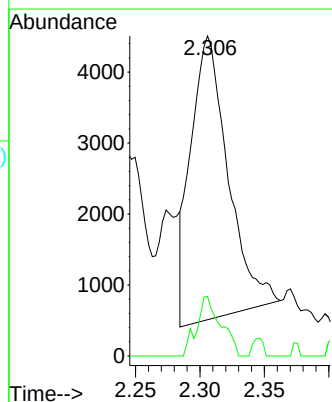
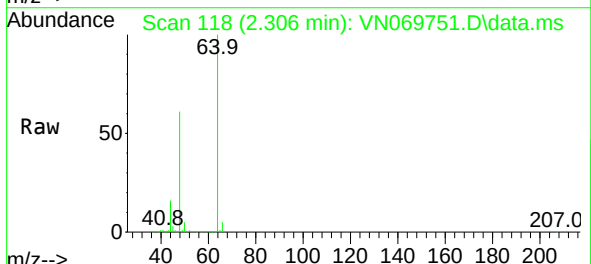
Instrument :
MSVOA_N
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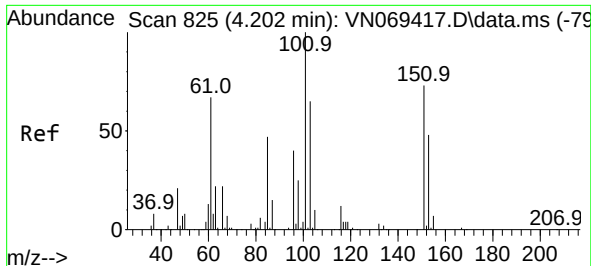
Tgt Ion:168 Resp: 1375989
Ion Ratio Lower Upper
168 100
99 60.1 41.3 61.9



#3
Chloromethane
Concen: 0.399 ug/l
RT: 2.306 min Scan# 118
Delta R.T. 0.003 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

Tgt Ion: 50 Resp: 8015
Ion Ratio Lower Upper
50 100
52 22.5 25.4 38.0#

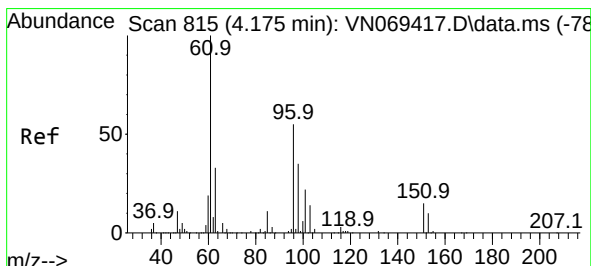
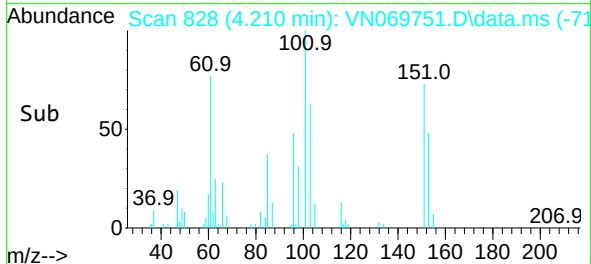
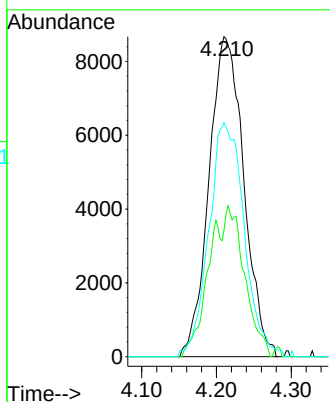
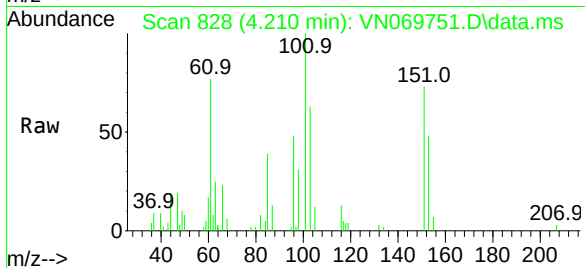




#9
1,1,2-Trichlorotrifluoroethane
Concen: 2.059 ug/l
RT: 4.210 min Scan# 810
Delta R.T. 0.008 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

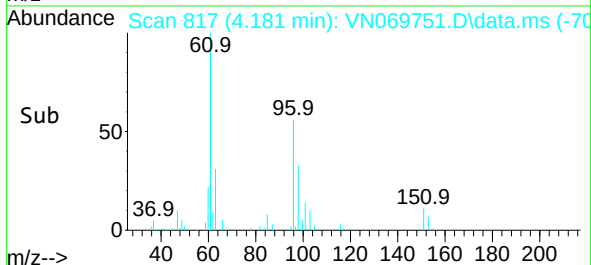
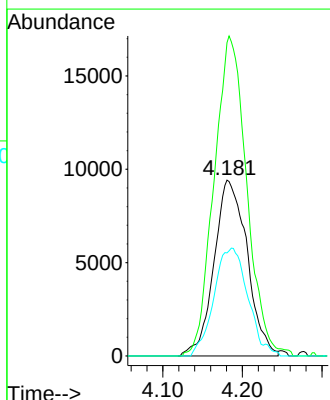
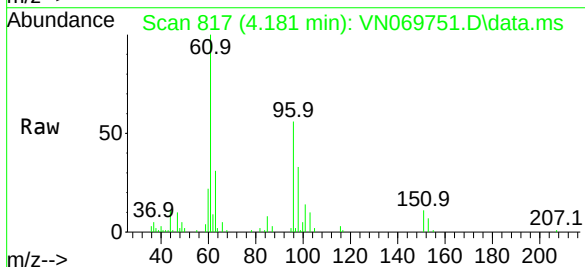
Instrument :
MSVOA_N
ClientSampleId :
RE139D2-20211130

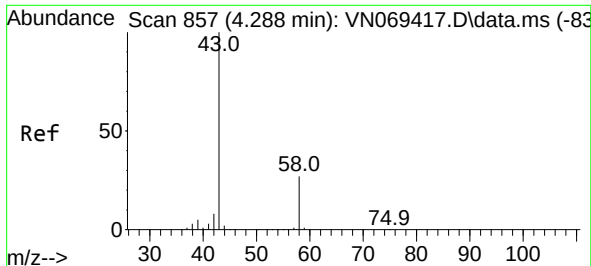
Tgt Ion:101 Resp: 28004
Ion Ratio Lower Upper
101 100
85 20.1 37.2 55.8#
151 74.3 65.9 98.9



#12
1,1-Dichloroethene
Concen: 2.080 ug/l
RT: 4.181 min Scan# 817
Delta R.T. 0.005 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

Tgt Ion: 96 Resp: 27265
Ion Ratio Lower Upper
96 100
61 178.2 131.0 196.6
98 58.6 52.4 78.6

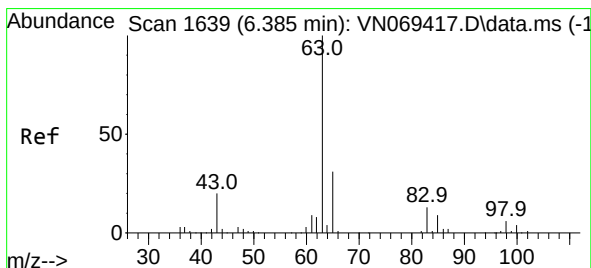
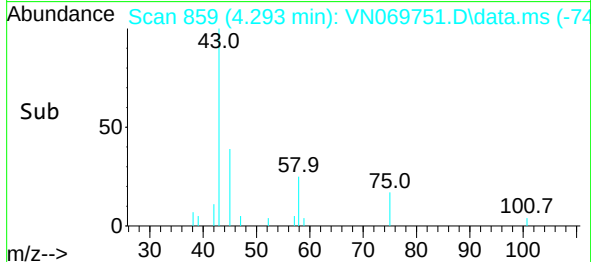
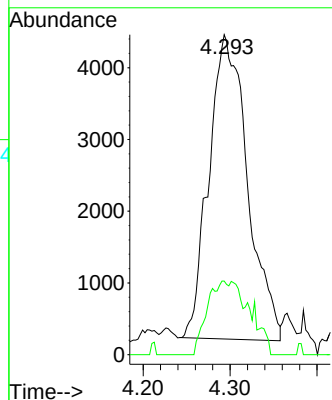
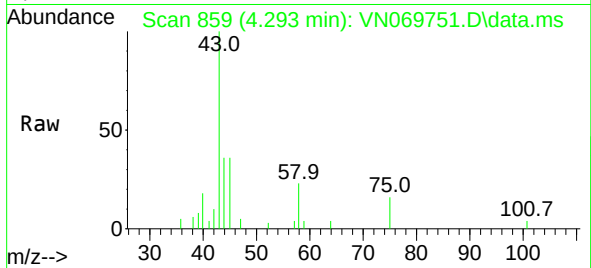




#16
Acetone
Concen: 1.024 ug/l
RT: 4.293 min Scan# 81
Delta R.T. 0.003 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

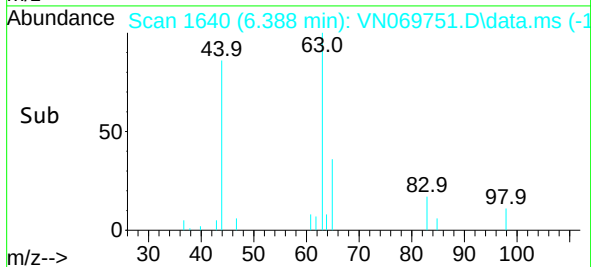
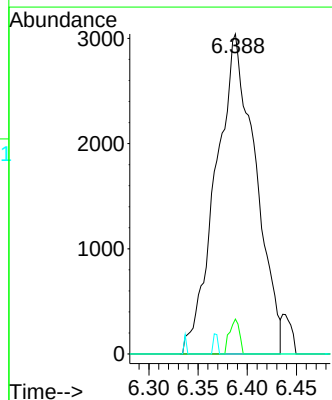
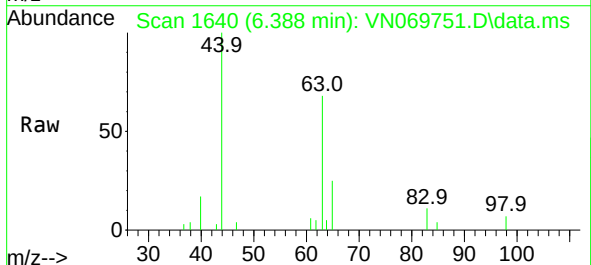
Instrument :
MSVOA_N
ClientSampleId :
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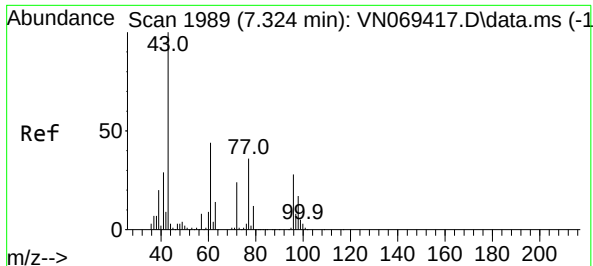
Tgt Ion: 43 Resp: 13083
Ion Ratio Lower Upper
43 100
58 24.3 23.1 34.7



#24
1,1-Dichloroethane
Concen: 0.286 ug/l
RT: 6.388 min Scan# 1640
Delta R.T. 0.000 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

Tgt Ion: 63 Resp: 8538
Ion Ratio Lower Upper
63 100
98 10.9 3.3 9.9#
100 0.0 2.1 6.5#





#27

cis-1,2-Dichloroethene

Concen: 1.084 ug/l

RT: 7.324 min Scan# 1989

Delta R.T. -0.003 min

Lab File: VN069751.D

Acq: 4 Dec 2021 6:04

Instrument :

MSVOA_N

ClientSampleId :

RE139D2-20211130

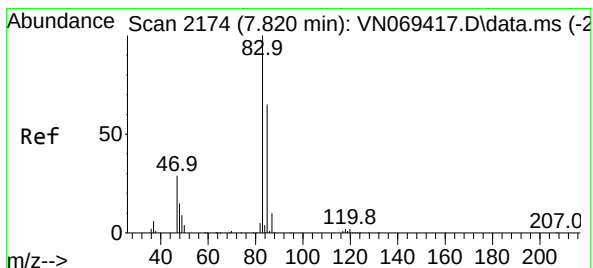
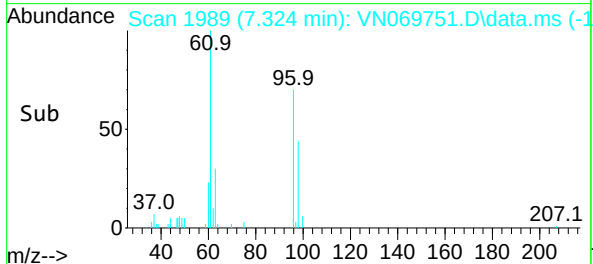
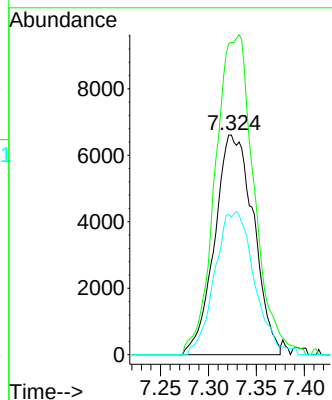
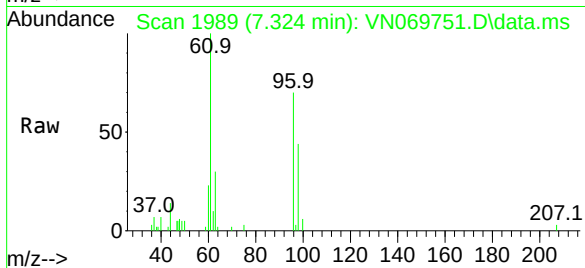
Tgt Ion: 96 Resp: 18644

Ion Ratio Lower Upper

96 100

61 145.2 0.0 275.0

98 66.4 0.0 129.6



#30

Chloroform

Concen: 0.312 ug/l

RT: 7.817 min Scan# 2173

Delta R.T. -0.003 min

Lab File: VN069751.D

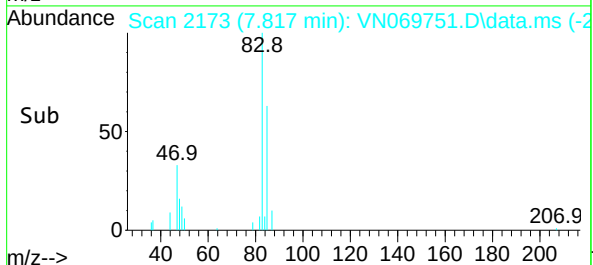
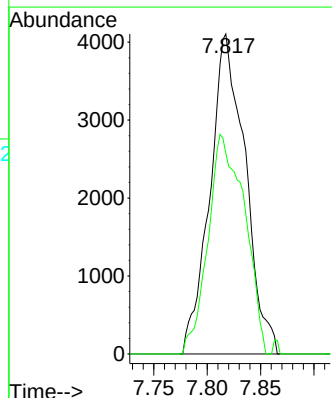
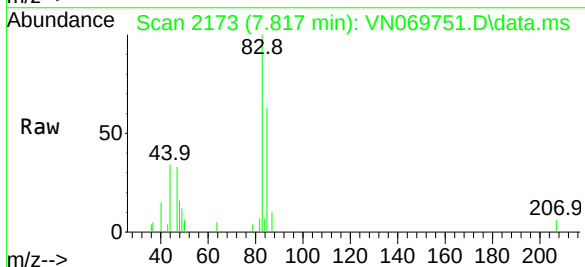
Acq: 4 Dec 2021 6:04

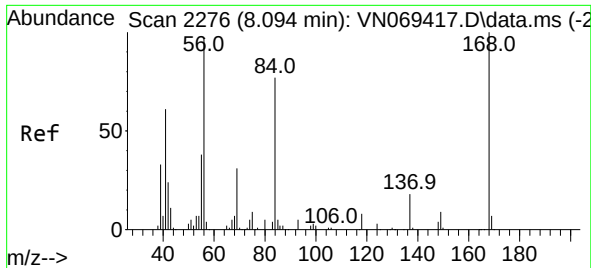
Tgt Ion: 83 Resp: 9412

Ion Ratio Lower Upper

83 100

85 62.8 51.9 77.9

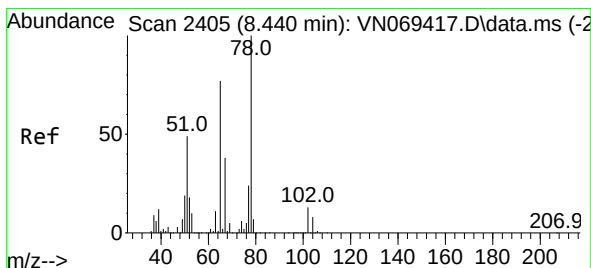
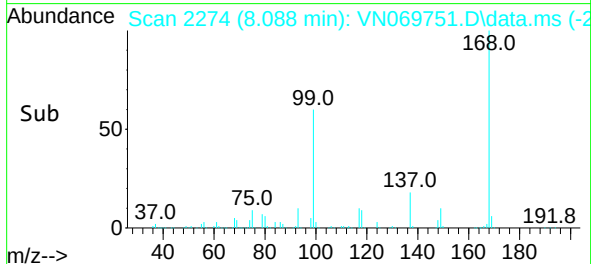
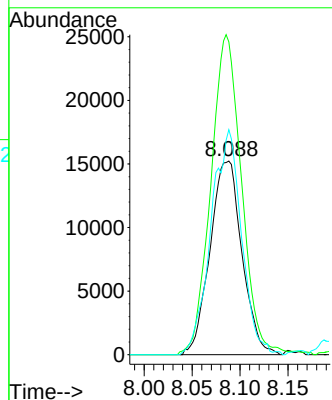
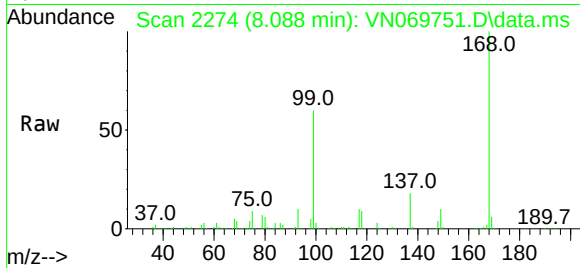




#31
Cyclohexane
Concen: 1.193 ug/l
RT: 8.088 min Scan# 21
Delta R.T. -0.005 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

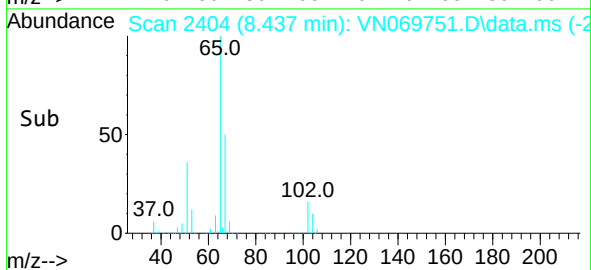
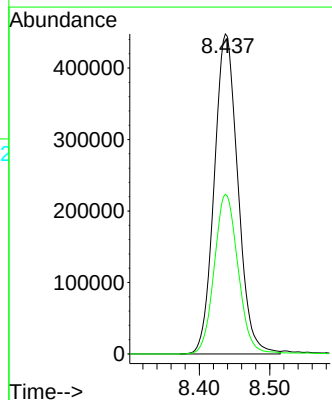
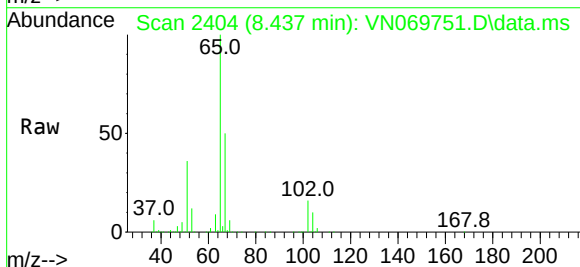
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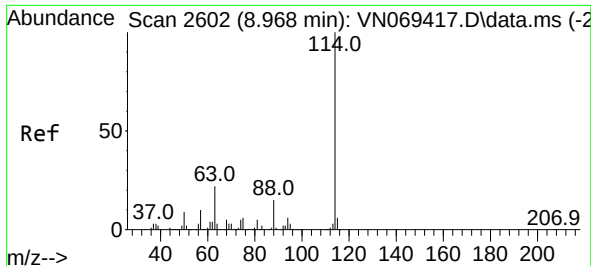
Tgt Ion: 56 Resp: 35265
Ion Ratio Lower Upper
56 100
69 160.1 27.1 40.7#
84 116.2 73.4 110.0#



#33
1,2-Dichloroethane-d4
Concen: 49.084 ug/l
RT: 8.437 min Scan# 2404
Delta R.T. 0.000 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

Tgt Ion: 65 Resp: 1042812
Ion Ratio Lower Upper
65 100
67 50.4 0.0 103.0

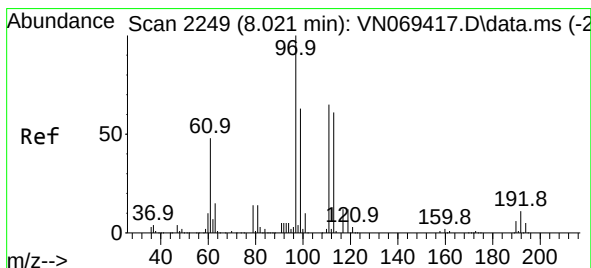
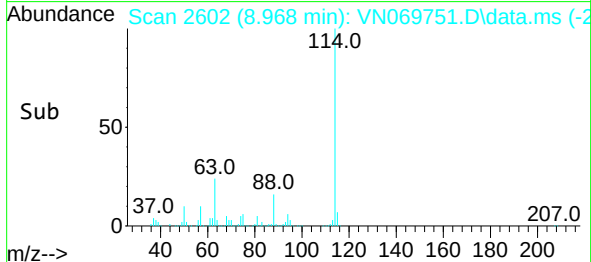
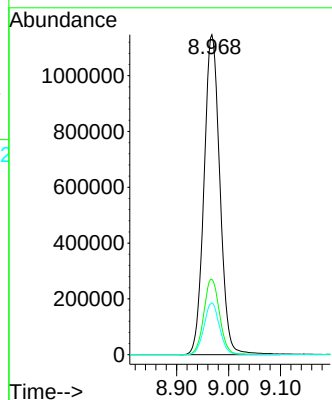
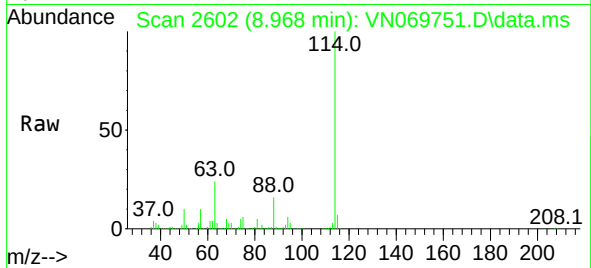




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.968 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

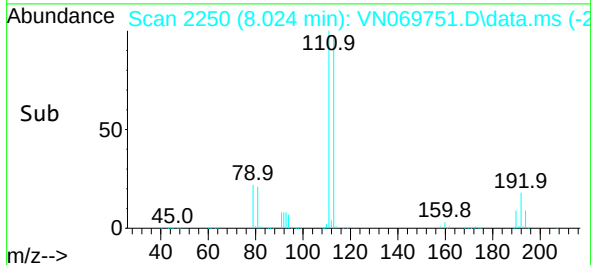
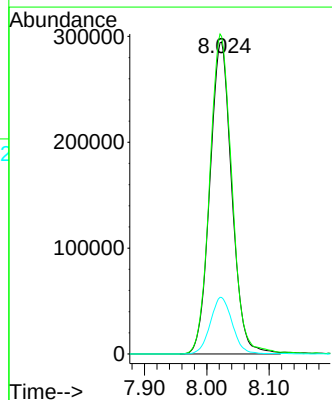
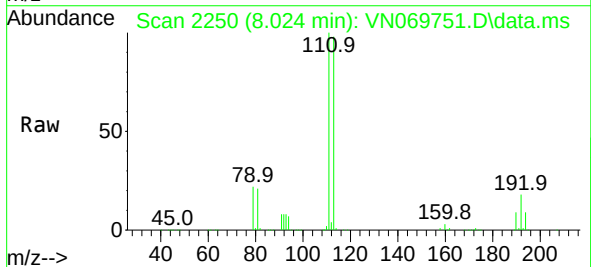
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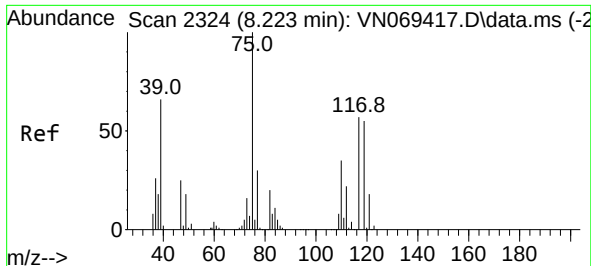
Tgt Ion:114 Resp: 2435512
Ion Ratio Lower Upper
114 100
63 23.5 0.0 37.8
88 16.2 0.0 27.4



#35
Dibromofluoromethane
Concen: 47.223 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. 0.000 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

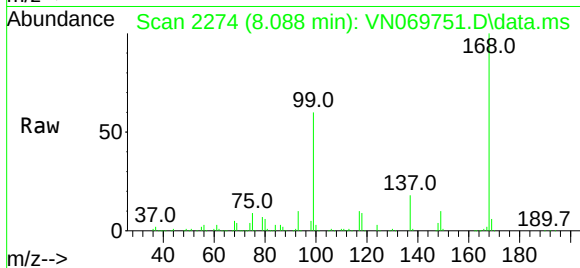
Tgt Ion:113 Resp: 720405
Ion Ratio Lower Upper
113 100
111 103.9 82.2 123.2
192 18.2 16.9 25.3



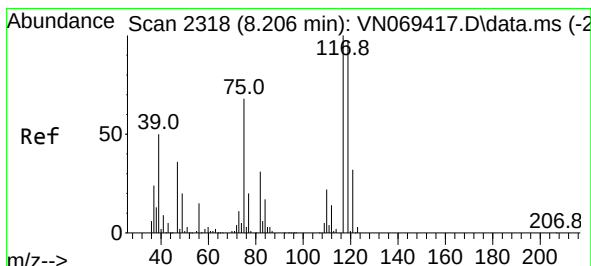
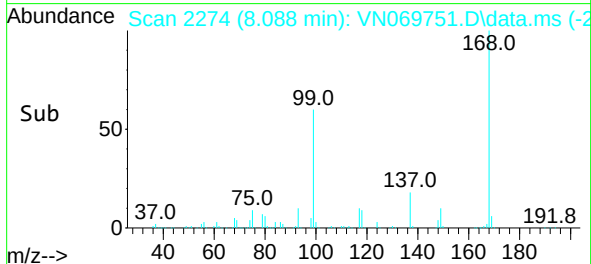
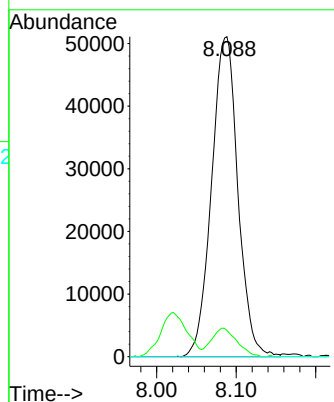


#36
 1,1-Dichloropropene
 Concen: 5.073 ug/l
 RT: 8.088 min Scan# 211
 Delta R.T. -0.134 min
 Lab File: VN069751.D
 Acq: 4 Dec 2021 6:04

Instrument :
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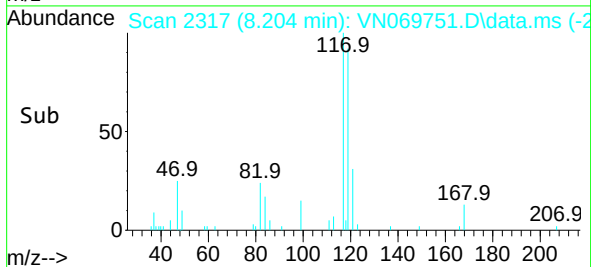
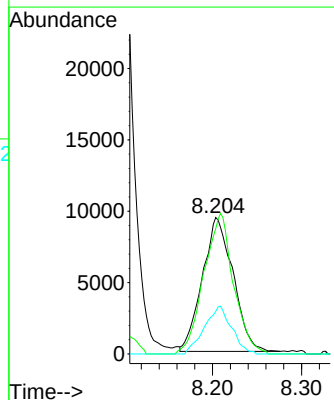
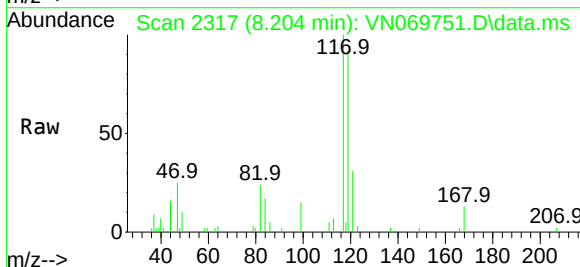


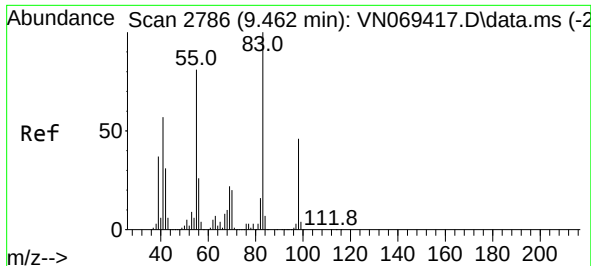
Tgt Ion: 75 Resp: 117610
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.4 55.2#
 77 0.0 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 0.990 ug/l
 RT: 8.204 min Scan# 2317
 Delta R.T. -0.003 min
 Lab File: VN069751.D
 Acq: 4 Dec 2021 6:04

Tgt Ion: 117 Resp: 22507
 Ion Ratio Lower Upper
 117 100
 119 93.5 76.1 114.1
 121 31.8 24.2 36.2

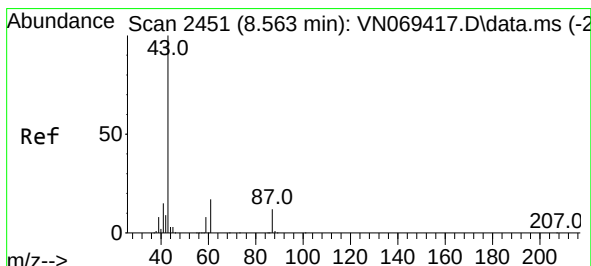
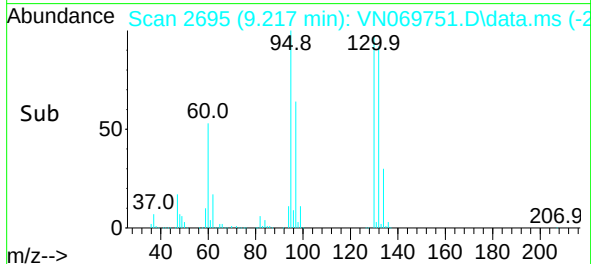
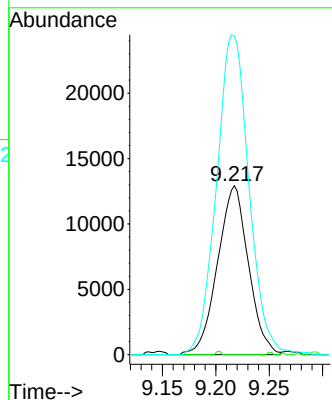
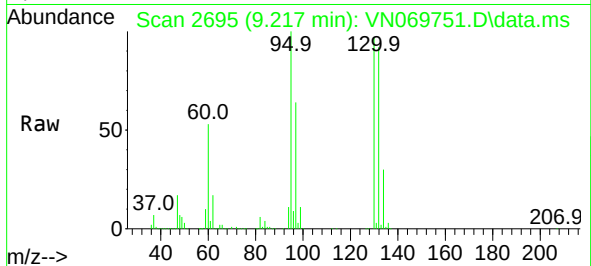




#39
Methylcyclohexane
Concen: 0.942 ug/l
RT: 9.217 min Scan# 21
Delta R.T. -0.244 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

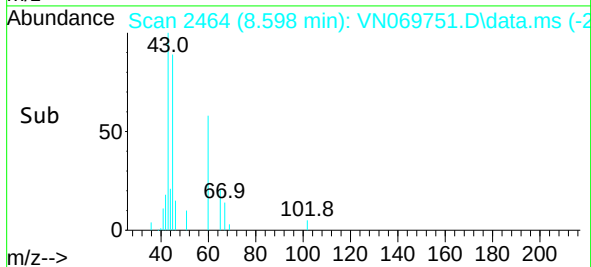
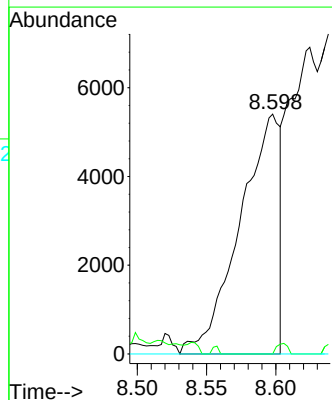
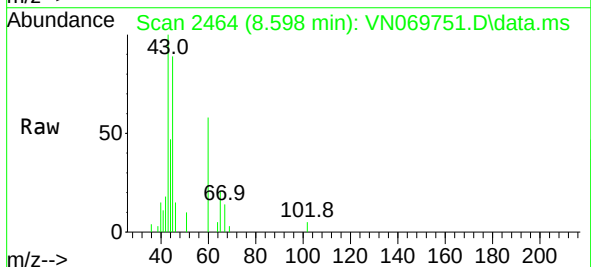
Instrument :
MSVOA_N
ClientSampleId :
RE139D2-20211130

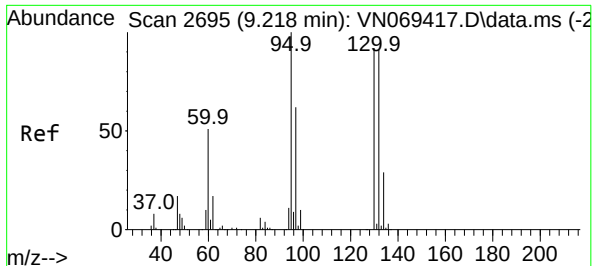
Tgt Ion: 83 Resp: 25980
Ion Ratio Lower Upper
83 100
55 0.0 58.1 87.1#
98 188.6 38.4 57.6#



#43
Isopropyl Acetate
Concen: 0.213 ug/l
RT: 8.598 min Scan# 2464
Delta R.T. 0.035 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

Tgt Ion: 43 Resp: 10886
Ion Ratio Lower Upper
43 100
61 0.0 20.4 30.6#
87 0.0 11.2 16.8#

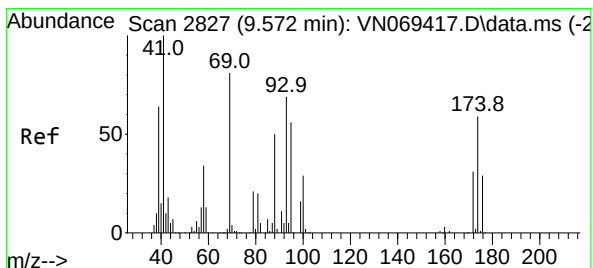
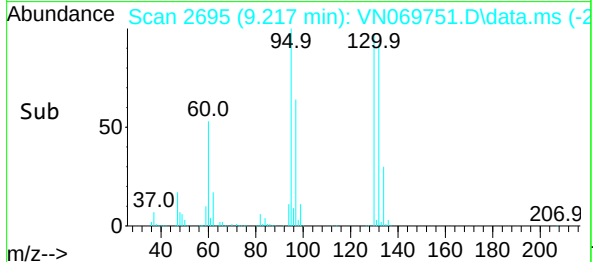
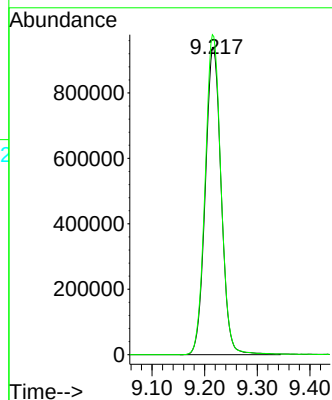
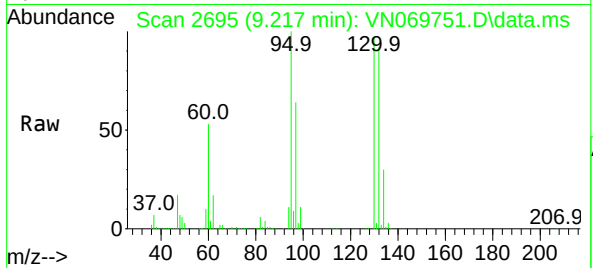




#44
Trichloroethene
Concen: 116.257 ug/l
RT: 9.217 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

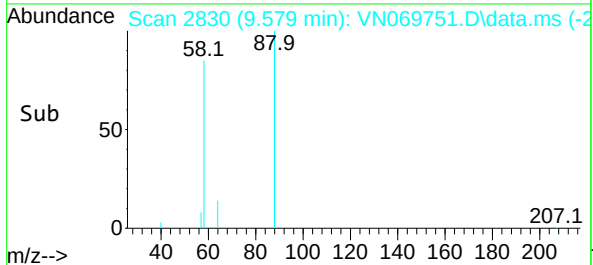
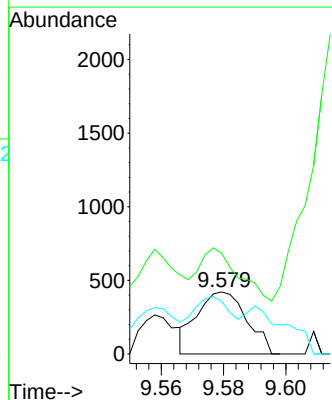
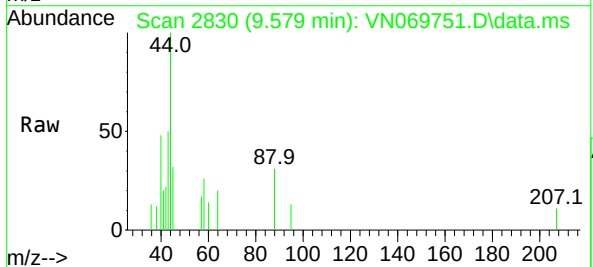
Instrument :
MSVOA_N
ClientSampleId :
RE139D2-20211130

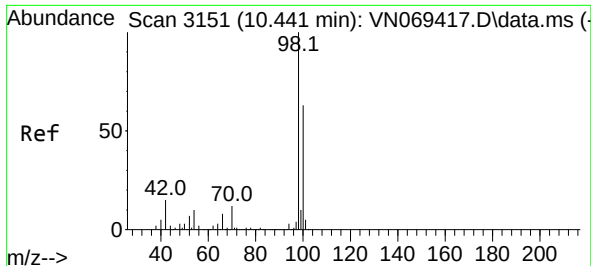
Tgt Ion:130 Resp: 1966464
Ion Ratio Lower Upper
130 100
95 103.5 0.0 191.2



#49
1,4-Dioxane
Concen: 1.092 ug/l
RT: 9.579 min Scan# 2830
Delta R.T. 0.008 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

Tgt Ion: 88 Resp: 467
Ion Ratio Lower Upper
88 100
43 65.1 23.4 35.2#
58 34.9 50.6 75.8#

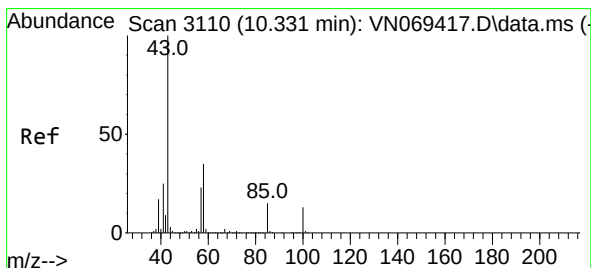
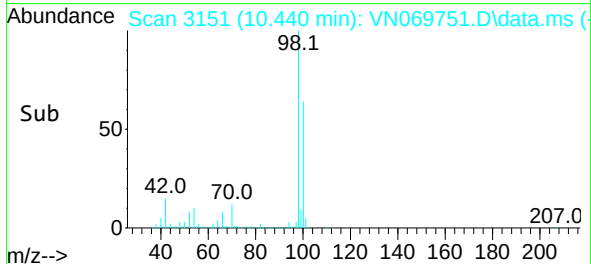
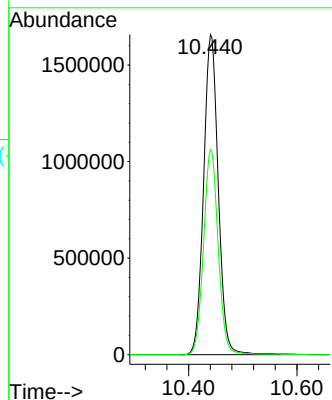
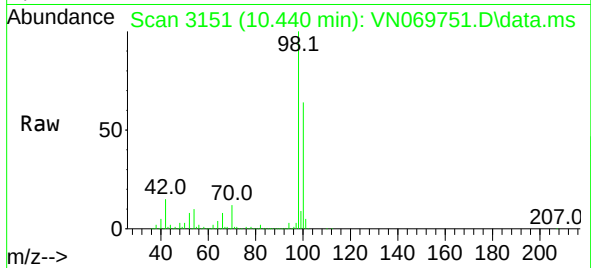




#50
Toluene-d8
Concen: 50.873 ug/l
RT: 10.440 min Scan# 3151
Delta R.T. -0.003 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

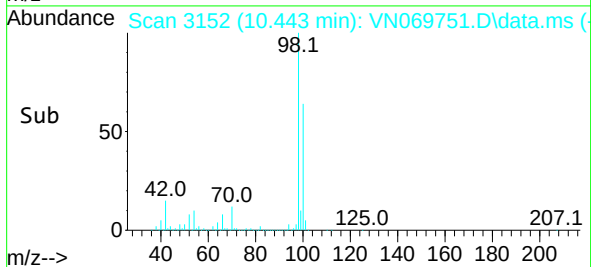
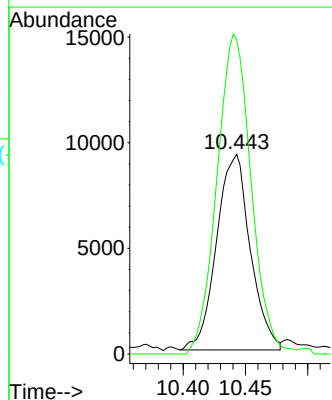
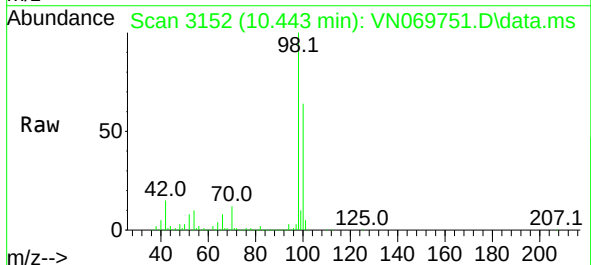
Instrument :
MSVOA_N
ClientSampleId :
RE139D2-20211130

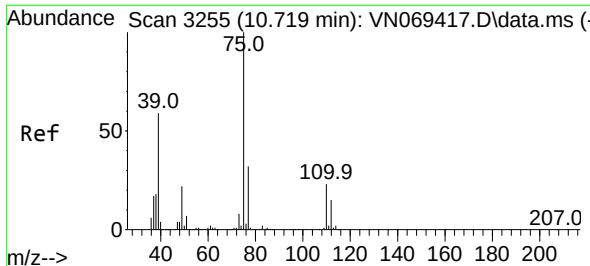
Tgt Ion: 98 Resp: 3116281
Ion Ratio Lower Upper
98 100
100 64.1 50.4 75.6



#51
4-Methyl-2-Pentanone
Concen: 0.526 ug/l
RT: 10.443 min Scan# 3152
Delta R.T. 0.110 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

Tgt Ion: 43 Resp: 17428
Ion Ratio Lower Upper
43 100
58 165.8 30.4 45.6#

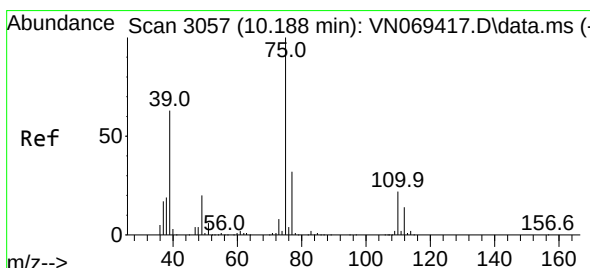
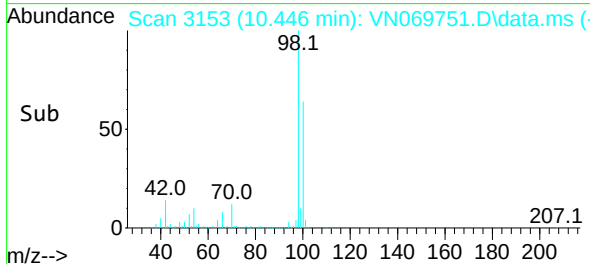
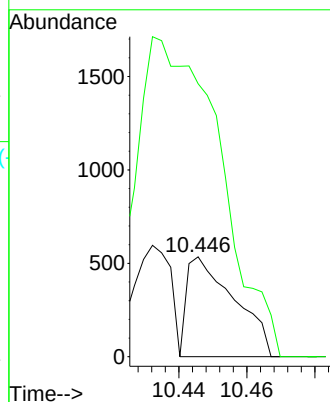
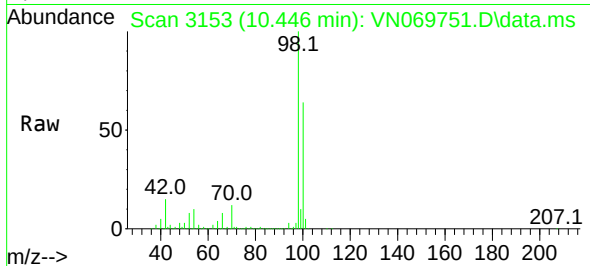




#53
 t-1,3-Dichloropropene
 Concen: 2.811 ug/l
 RT: 10.446 min Scan# 3153
 Delta R.T. -0.273 min
 Lab File: VN069751.D
 Acq: 4 Dec 2021 6:04

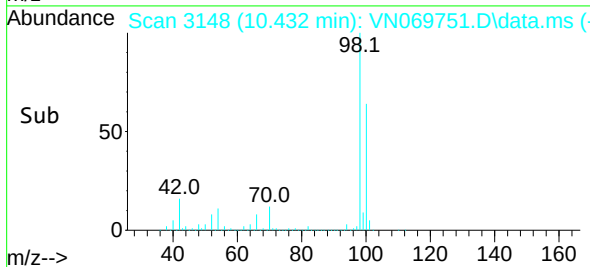
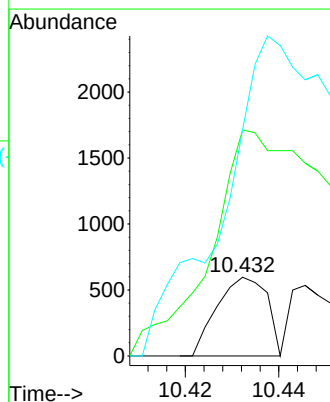
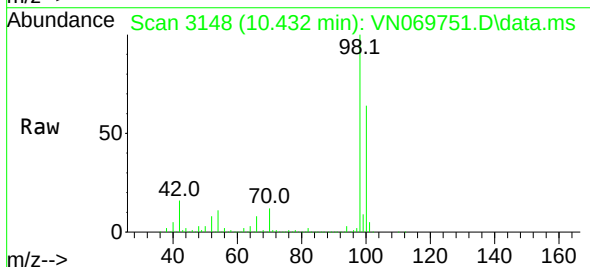
Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D2-20211130

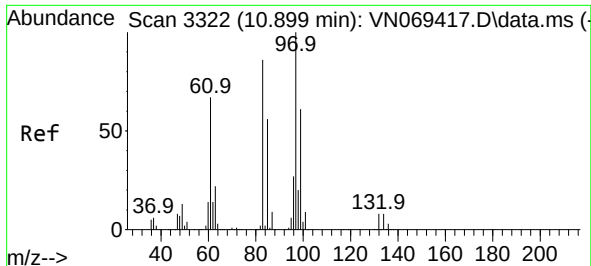
Tgt Ion: 75 Resp: 521
 Ion Ratio Lower Upper
 75 100
 77 273.1 25.6 38.4#



#54
 cis-1,3-Dichloropropene
 Concen: 2.013 ug/l
 RT: 10.432 min Scan# 3148
 Delta R.T. 0.241 min
 Lab File: VN069751.D
 Acq: 4 Dec 2021 6:04

Tgt Ion: 75 Resp: 443
 Ion Ratio Lower Upper
 75 100
 77 225.0 26.4 39.6#
 39 169.0 42.5 63.7#

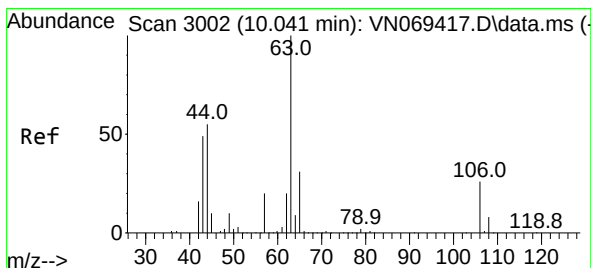
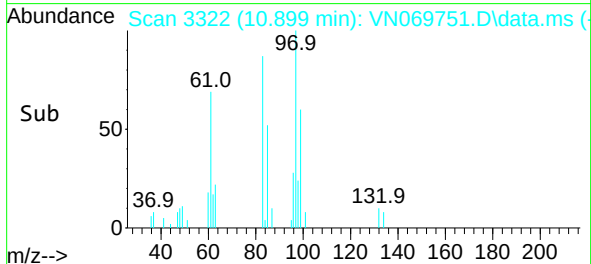
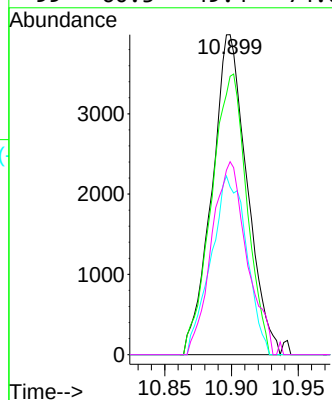
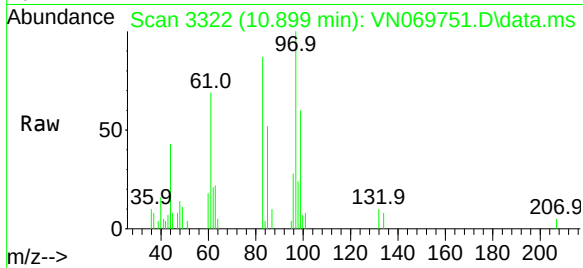




#55
 1,1,2-Trichloroethane
 Concen: 0.418 ug/l
 RT: 10.899 min Scan# 311
 Delta R.T. 0.000 min
 Lab File: VN069751.D
 Acq: 4 Dec 2021 6:04

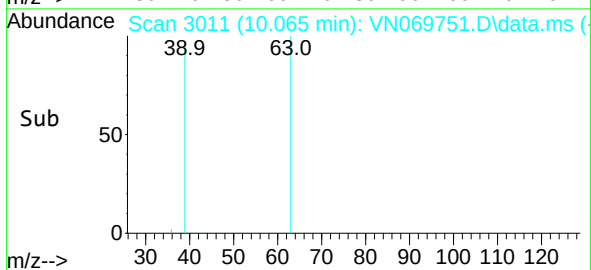
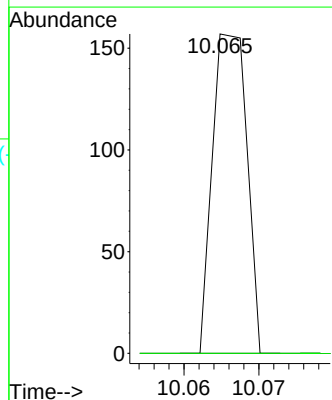
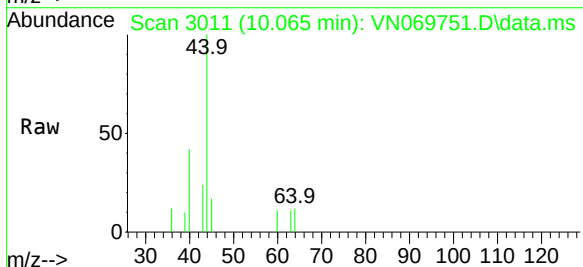
Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D2-20211130

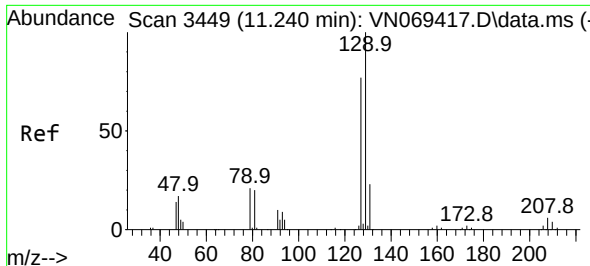
Tgt Ion:	97	Resp:	7298
Ion	Ratio	Lower	Upper
97	100		
83	87.0	67.8	101.6
85	52.4	45.4	68.2
99	60.3	49.4	74.0



#58
 2-Chloroethyl Vinyl ether
 Concen: 18.394 ug/l
 RT: 10.065 min Scan# 3011
 Delta R.T. 0.022 min
 Lab File: VN069751.D
 Acq: 4 Dec 2021 6:04

Tgt Ion:	63	Resp:	50
Ion	Ratio	Lower	Upper
63	100		
106	0.0	23.9	35.9#

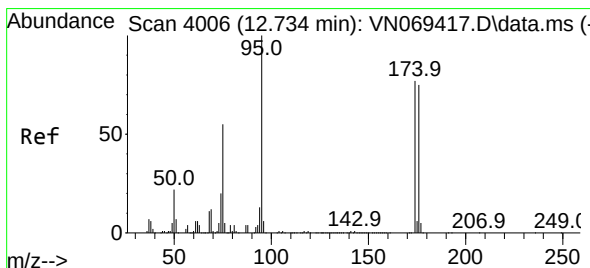
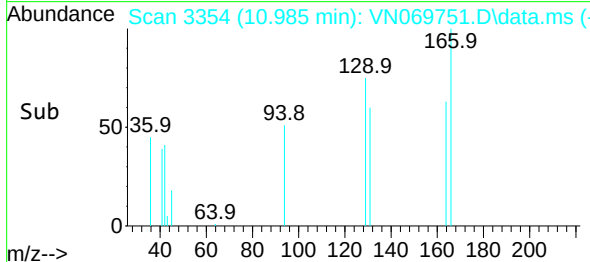
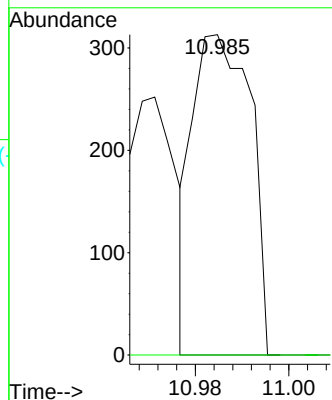
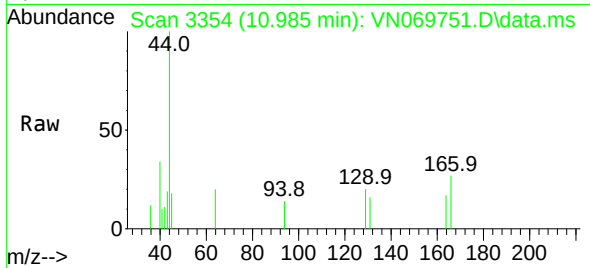




#60
Dibromochloromethane
Concen: 2.390 ug/l
RT: 10.985 min Scan# 31
Delta R.T. -0.255 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

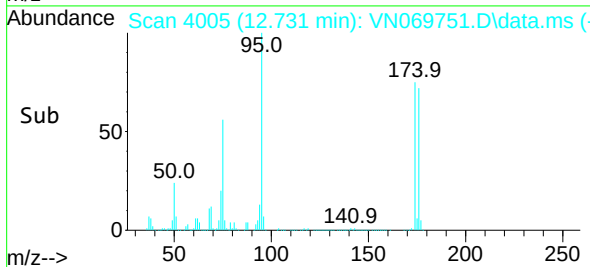
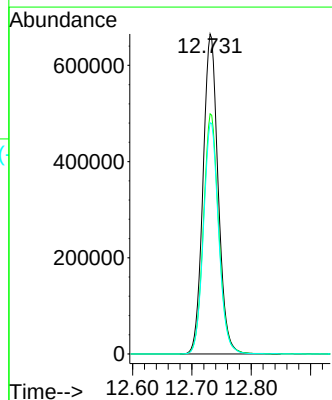
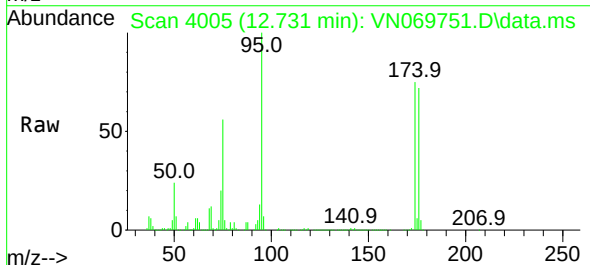
Instrument :
MSVOA_N
ClientSampleId :
RE139D2-20211130

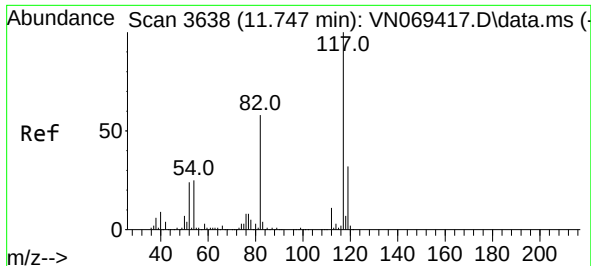
Tgt Ion:129 Resp: 267
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 52.960 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.000 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

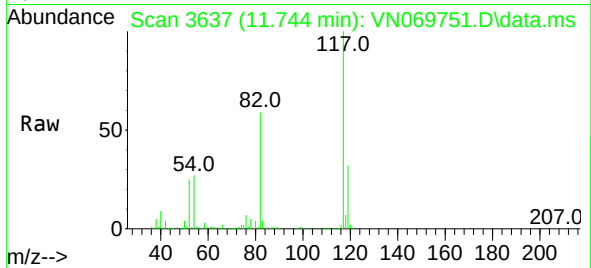
Tgt Ion: 95 Resp: 1175266
Ion Ratio Lower Upper
95 100
174 75.7 0.0 187.2
176 72.4 0.0 181.4



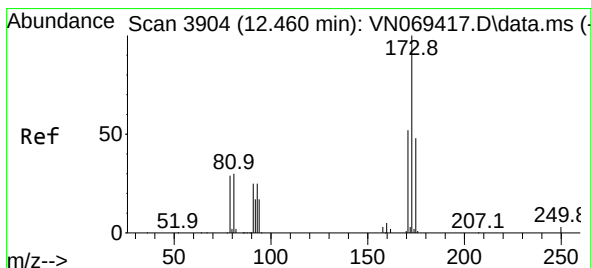
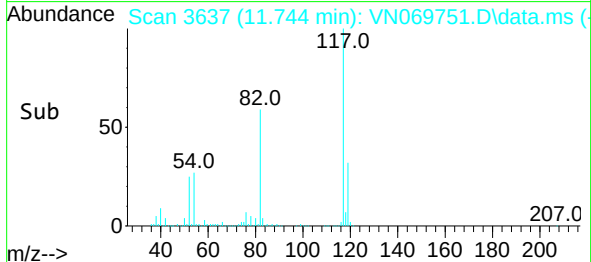
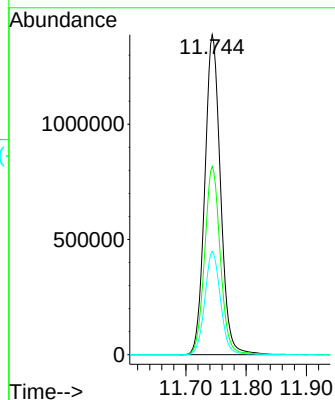


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 30
Delta R.T. -0.002 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

Instrument :
MSVOA_N
ClientSampleId :
RE139D2-20211130

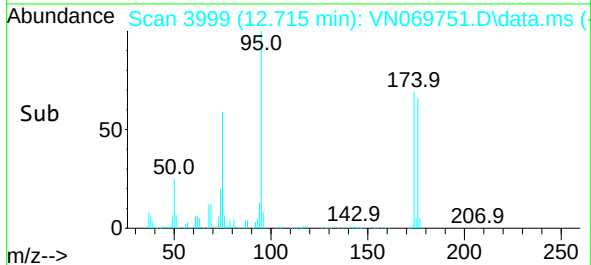
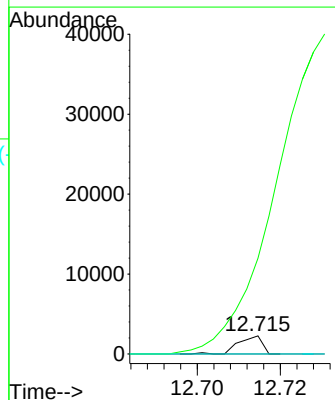
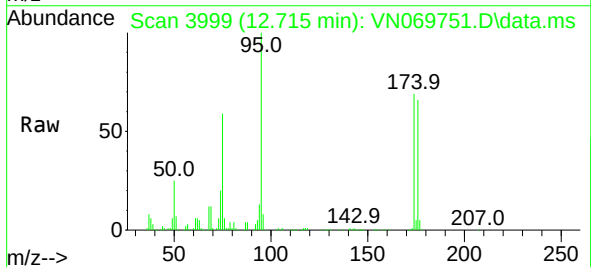


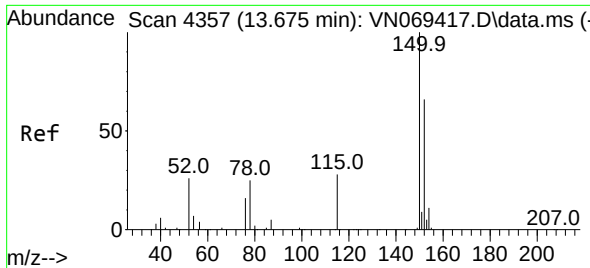
Tgt Ion:117 Resp: 2509365
Ion Ratio Lower Upper
117 100
82 58.9 42.4 63.6
119 32.3 25.4 38.2



#71
Bromoform
Concen: 2.786 ug/l
RT: 12.715 min Scan# 3999
Delta R.T. 0.255 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

Tgt Ion:173 Resp: 890
Ion Ratio Lower Upper
173 100
175 7266.1 24.2 72.6#
254 0.0 0.0 0.0

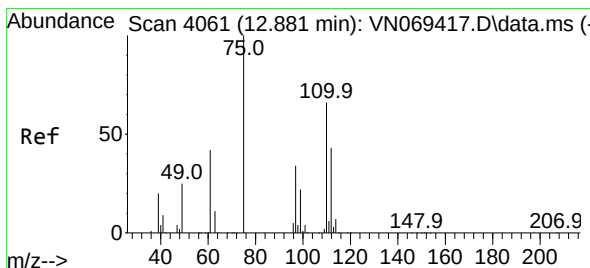
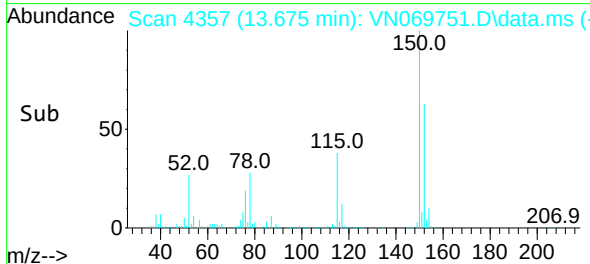
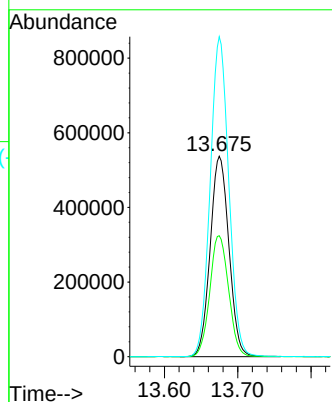
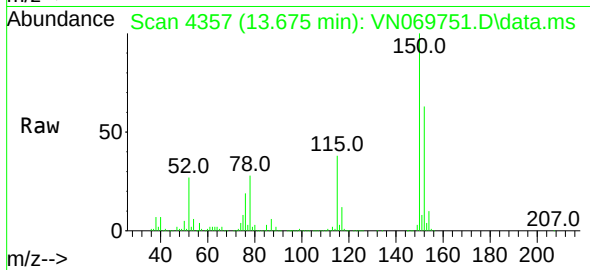




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.675 min Scan# 41
Delta R.T. -0.003 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

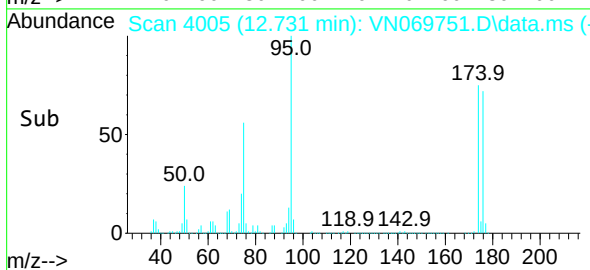
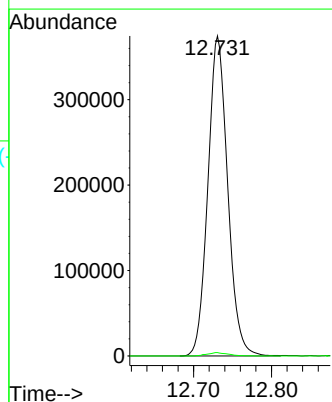
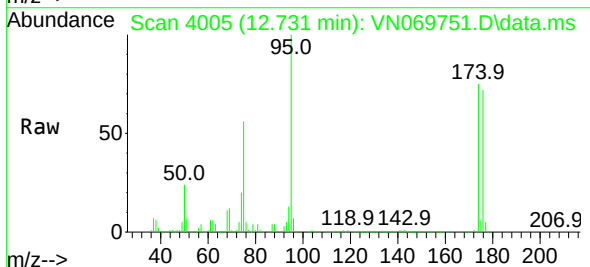
Instrument :
MSVOA_N
ClientSampleId :
RE139D2-20211130

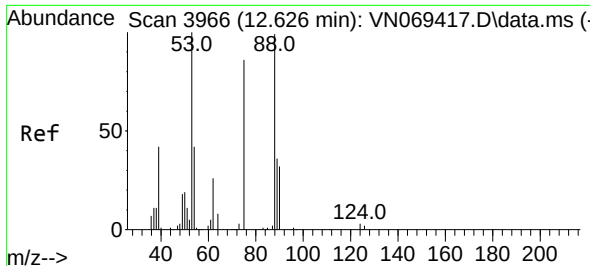
Tgt Ion:152 Resp: 955550
Ion Ratio Lower Upper
152 100
115 60.6 27.5 82.5
150 157.7 0.0 344.4



#76
1,2,3-Trichloropropane
Concen: 24.115 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

Tgt Ion: 75 Resp: 660819
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#

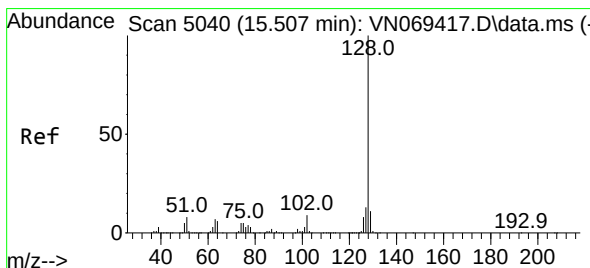
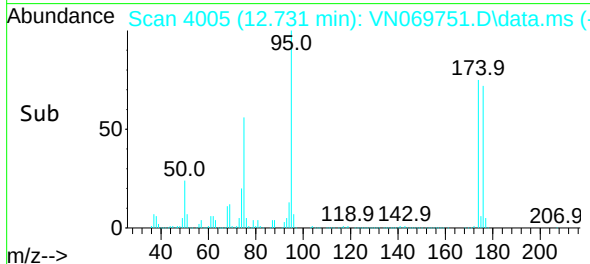
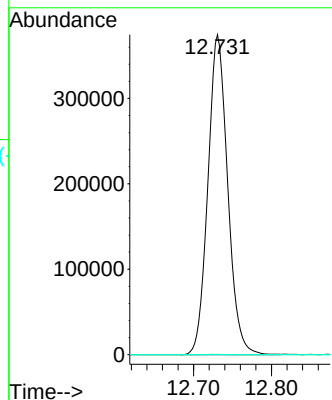
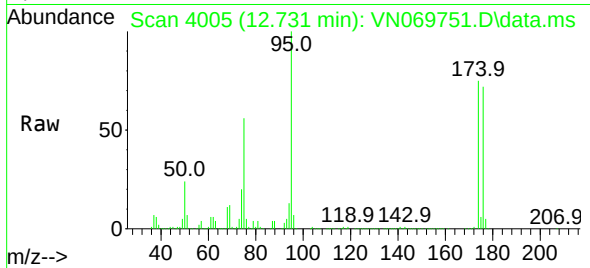




#81
trans-1,4-Dichloro-2-butene
Concen: 76.576 ug/l
RT: 12.731 min Scan# 40
Delta R.T. 0.105 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

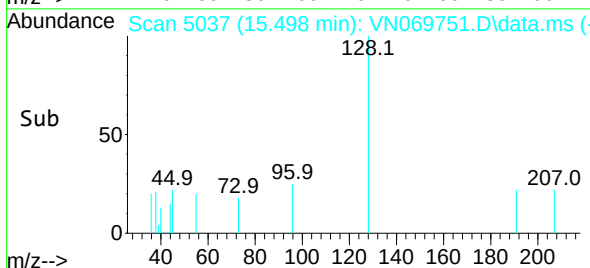
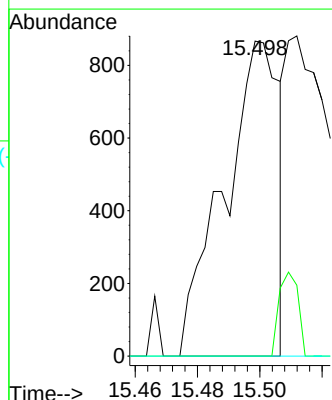
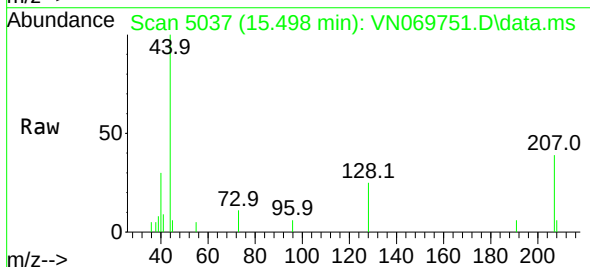
Instrument :
MSVOA_N
ClientSampleId :
RE139D2-20211130

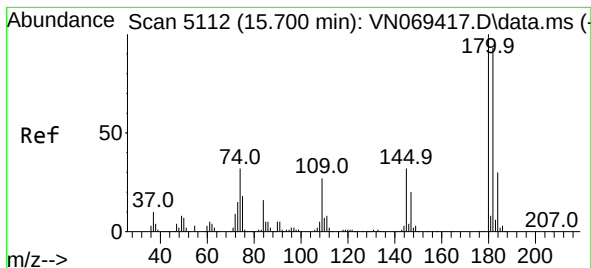
Tgt Ion: 75 Resp: 660819
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#



#95
Naphthalene
Concen: 4.006 ug/l
RT: 15.498 min Scan# 5037
Delta R.T. -0.009 min
Lab File: VN069751.D
Acq: 4 Dec 2021 6:04

Tgt Ion: 128 Resp: 1061
Ion Ratio Lower Upper
128 100
127 9.3 10.5 15.7#
129 0.0 8.7 13.1#





#96

1,2,3-Trichlorobenzene

Concen: 2.451 ug/l

RT: 15.694 min Scan# 51

Delta R.T. -0.008 min

Lab File: VN069751.D

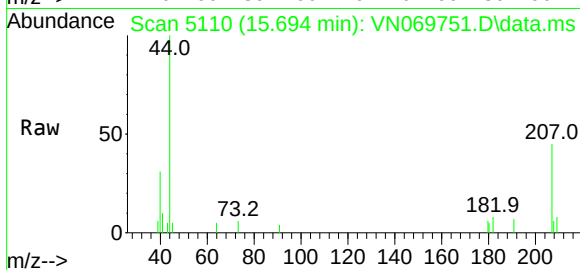
Acq: 4 Dec 2021 6:04

Instrument :

MSVOA_N

ClientSampleId :

RE139D2-20211130



Tgt Ion:180 Resp: 243

Ion Ratio Lower Upper

180 100

182 81.9 47.4 142.2

145 0.0 15.0 45.1#

