

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120321\
 Data File : VN069727.D
 Acq On : 3 Dec 2021 19:03
 Operator : JC/MD
 Sample : M4922-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D5-20211129

Quant Time: Dec 04 05:35:08 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)

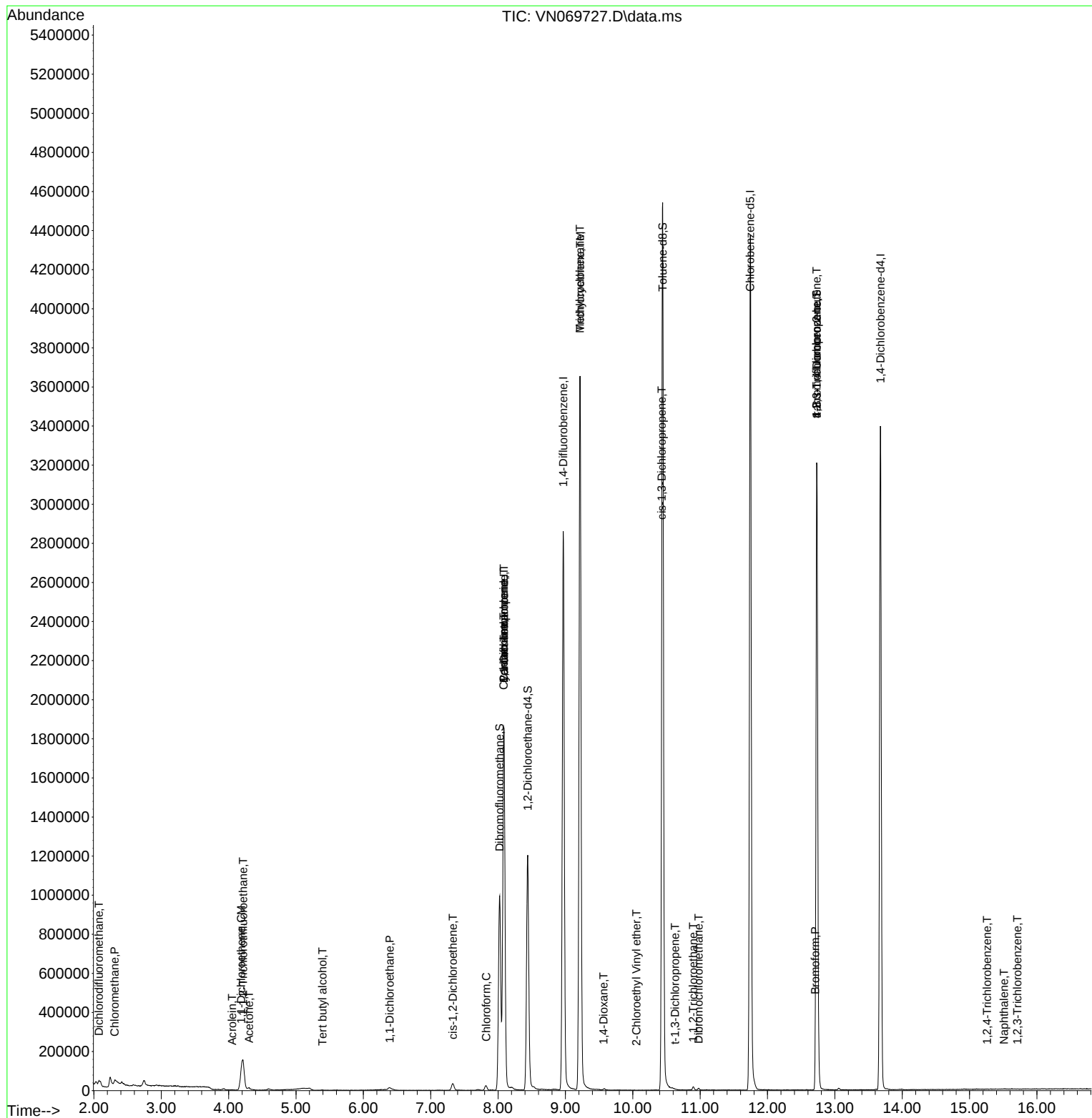
Internal Standards						
1) Pentafluorobenzene	8.086	168	1391893	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	2422176	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.744	117	2482941	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	921602	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	1023954	47.646	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.300%
35) Dibromofluoromethane	8.024	113	717440	47.287	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	94.580%
50) Toluene-d8	10.443	98	3107160	51.003	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.000%
62) 4-Bromofluorobenzene	12.731	95	1134240	51.392	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	102.780%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.075	85	15143	0.933	ug/l	98
3) Chloromethane	2.306	50	5485	0.270	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.213	101	95971	6.975	ug/l	93
11) Tert butyl alcohol	5.393	59	1362	0.335	ug/l #	71
12) 1,1-Dichloroethene	4.186	96	19486	1.470	ug/l	95
13) Acrolein	4.052	56	877	0.254	ug/l #	45
16) Acetone	4.301	43	12448	0.963	ug/l	95
24) 1,1-Dichloroethane	6.391	63	13484	0.446	ug/l	98
27) cis-1,2-Dichloroethene	7.329	96	18958	1.090	ug/l	97
30) Chloroform	7.823	83	22704	0.743	ug/l	99
31) Cyclohexane	8.083	56	35760	1.196	ug/l #	24
36) 1,1-Dichloropropene	8.086	75	118032	5.119	ug/l #	49
38) Carbon Tetrachloride	8.086	117	144676	6.398	ug/l #	17
39) Methylcyclohexane	9.215	83	16625	0.606	ug/l #	1
44) Trichloroethene	9.218	130	1301183	77.349	ug/l	93
49) 1,4-Dioxane	9.566	88	2360	5.549	ug/l #	1
53) t-1,3-Dichloropropene	10.626	75	52	2.796	ug/l #	1
54) cis-1,3-Dichloropropene	10.430	75	219	2.006	ug/l #	1
55) 1,1,2-Trichloroethane	10.896	97	5030	0.290	ug/l #	77
58) 2-Chloroethyl Vinyl ether	10.054	63	24	18.391	ug/l #	45
60) Dibromochloromethane	10.980	129	1902	2.474	ug/l #	11
71) Bromoform	12.707	173	42	2.734	ug/l #	29
76) 1,2,3-Trichloropropane	12.731	75	635302	24.038	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.731	75	635302	76.344	ug/l #	5
93) 1,2,4-Trichlorobenzene	15.263	180	434	2.905	ug/l #	70
95) Naphthalene	15.512	128	1380	4.013	ug/l #	71
96) 1,2,3-Trichlorobenzene	15.708	180	398	2.461	ug/l #	46

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

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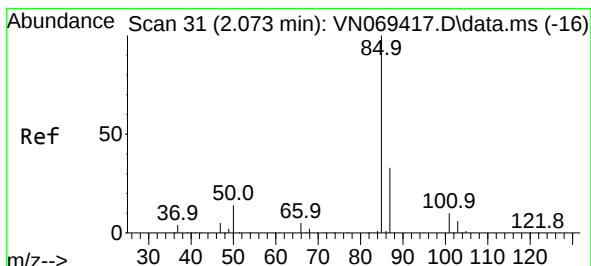
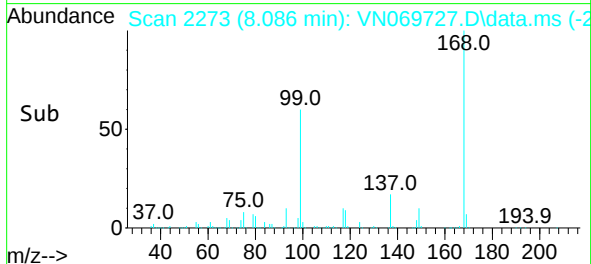
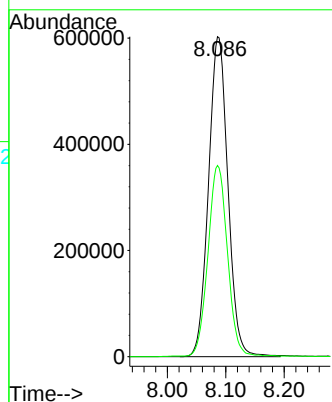
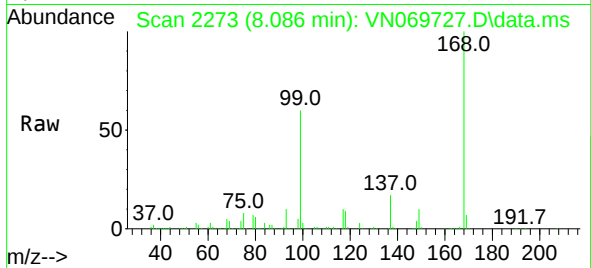




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

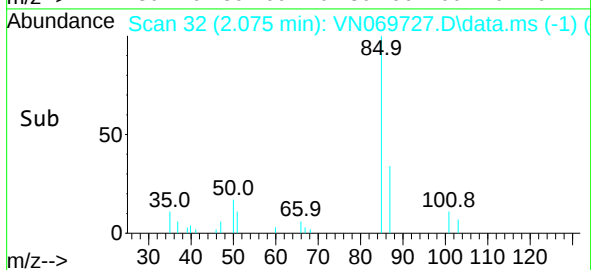
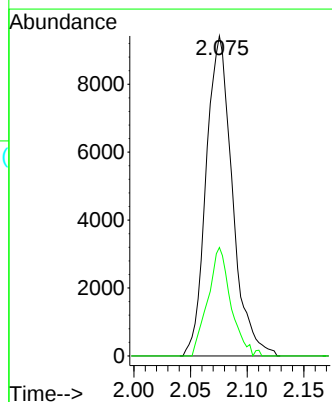
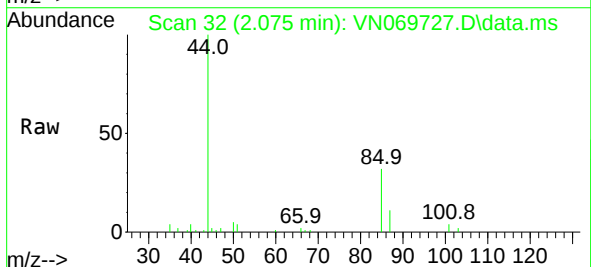
Instrument :
MSVOA_N
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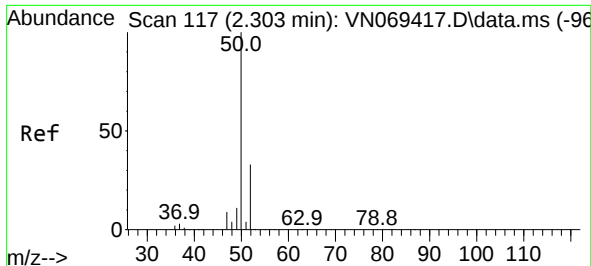
Tgt Ion:168 Resp: 1391893
Ion Ratio Lower Upper
168 100
99 59.5 41.3 61.9



#2
Dichlorodifluoromethane
Concen: 0.933 ug/l
RT: 2.075 min Scan# 32
Delta R.T. 0.003 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

Tgt Ion: 85 Resp: 15143
Ion Ratio Lower Upper
85 100
87 33.9 16.3 48.9

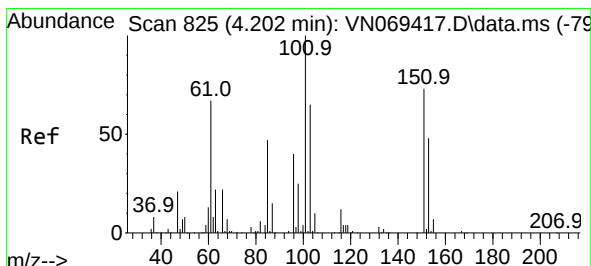
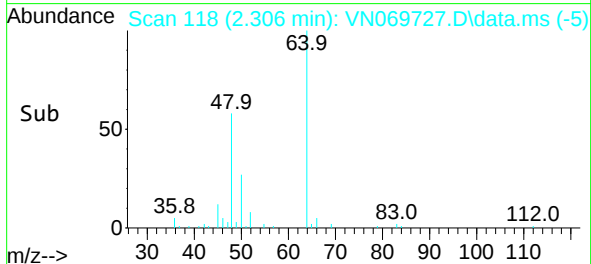
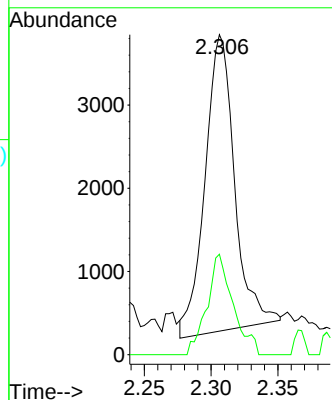
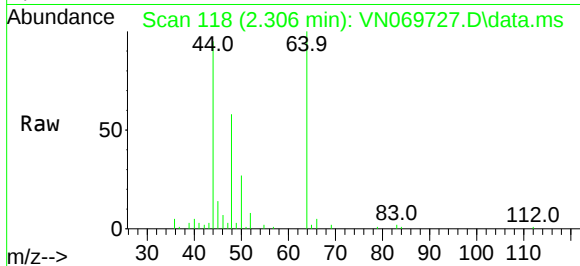




#3
Chloromethane
Concen: 0.270 ug/l
RT: 2.306 min Scan# 117
Delta R.T. 0.003 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

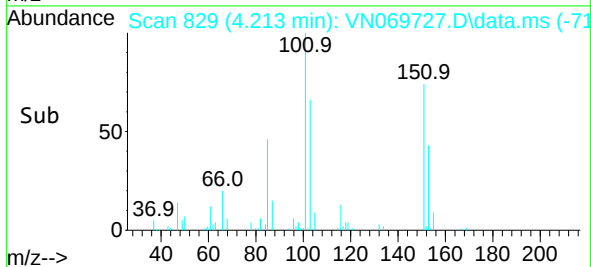
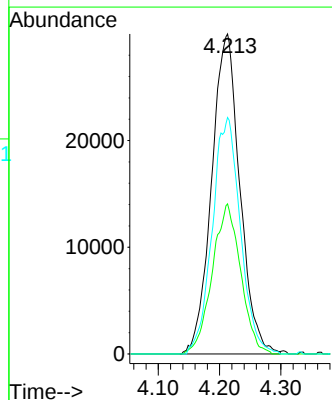
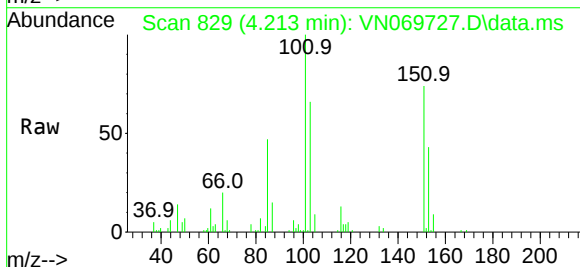
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20211129

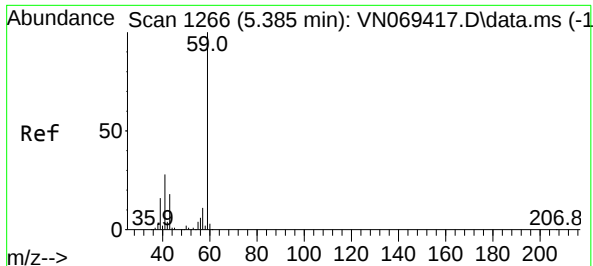
Tgt Ion: 50 Resp: 5485
Ion Ratio Lower Upper
50 100
52 35.2 25.4 38.0



#9
1,1,2-Trichlorotrifluoroethane
Concen: 6.975 ug/l
RT: 4.213 min Scan# 829
Delta R.T. 0.011 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

Tgt Ion: 101 Resp: 95971
Ion Ratio Lower Upper
101 100
85 47.2 37.2 55.8
151 73.7 65.9 98.9





#11

Tert butyl alcohol

Concen: 0.335 ug/l

RT: 5.393 min Scan# 11

Delta R.T. 0.003 min

Lab File: VN069727.D

Acq: 3 Dec 2021 19:03

Instrument :

MSVOA_N

ClientSampleId :

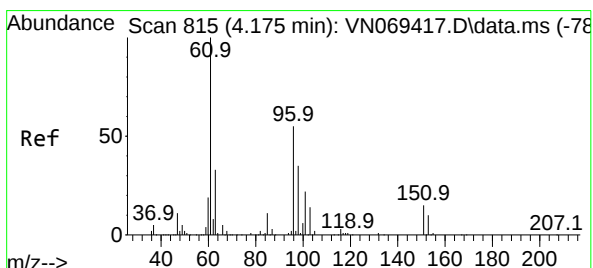
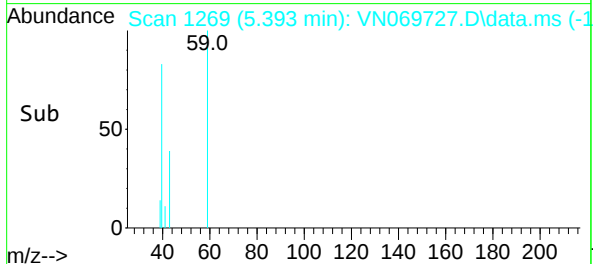
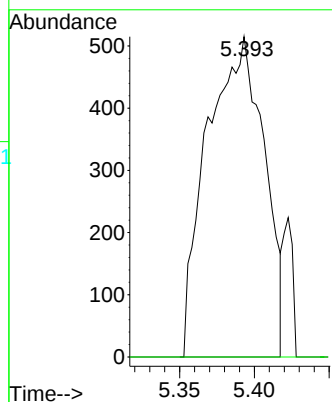
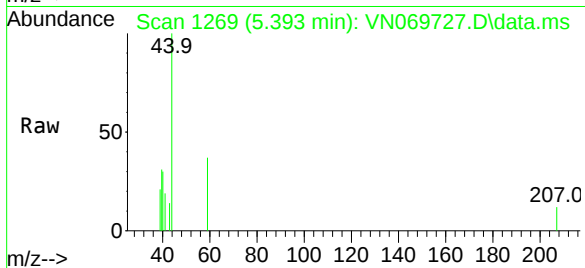
RE132D5-20211129

Tgt Ion: 59 Resp: 1362

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#12

1,1-Dichloroethene

Concen: 1.470 ug/l

RT: 4.186 min Scan# 819

Delta R.T. 0.011 min

Lab File: VN069727.D

Acq: 3 Dec 2021 19:03

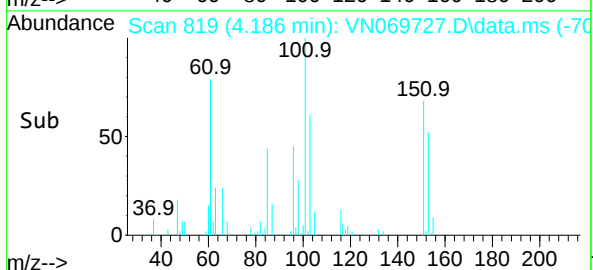
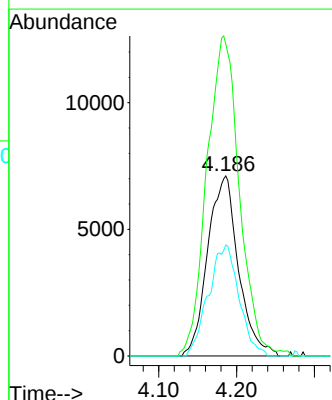
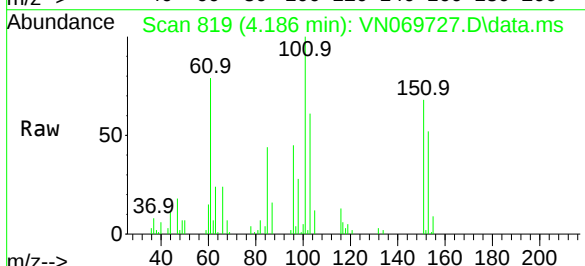
Tgt Ion: 96 Resp: 19486

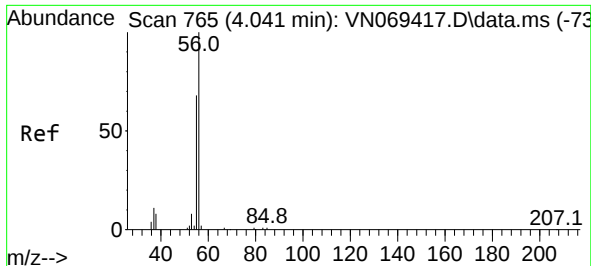
Ion Ratio Lower Upper

96 100

61 170.9 131.0 196.6

98 61.7 52.4 78.6

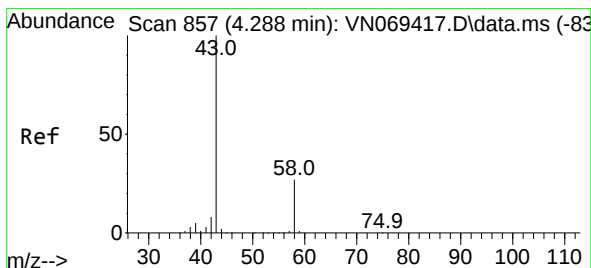
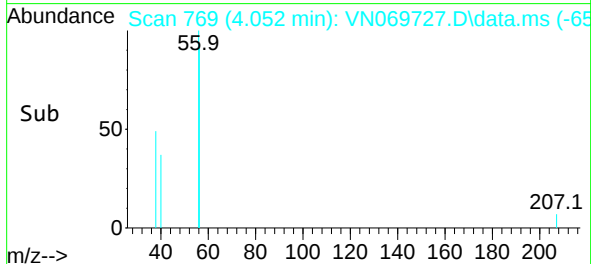
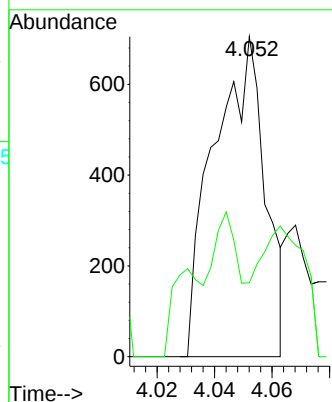
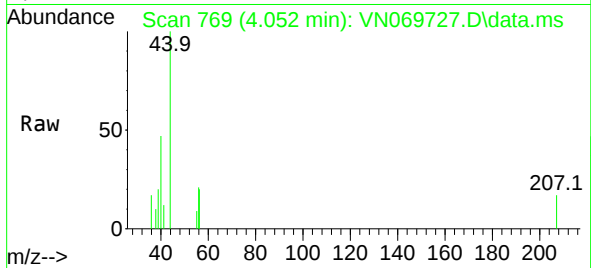




#13
Acrolein
Concen: 0.254 ug/l
RT: 4.052 min Scan# 769
Delta R.T. 0.014 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

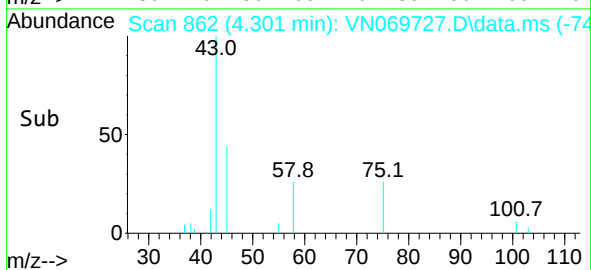
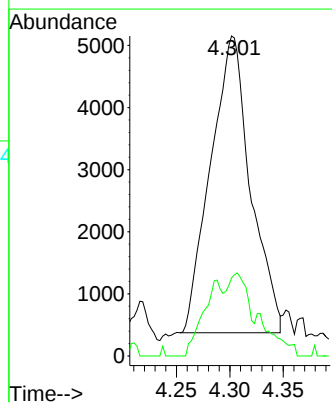
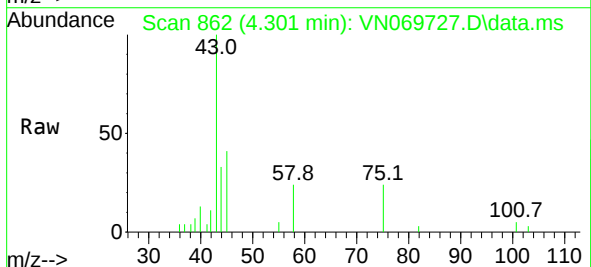
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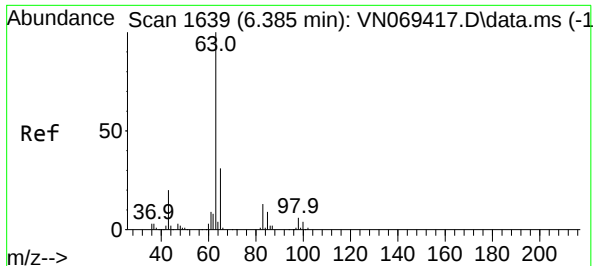
Tgt Ion: 56 Resp: 877
Ion Ratio Lower Upper
56 100
55 25.2 56.6 85.0#



#16
Acetone
Concen: 0.963 ug/l
RT: 4.301 min Scan# 862
Delta R.T. 0.011 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

Tgt Ion: 43 Resp: 12448
Ion Ratio Lower Upper
43 100
58 26.3 23.1 34.7

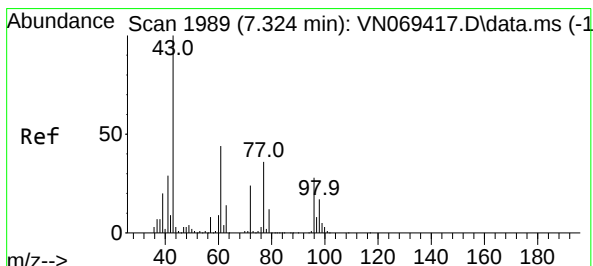
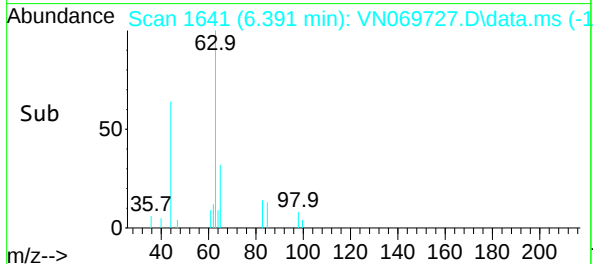
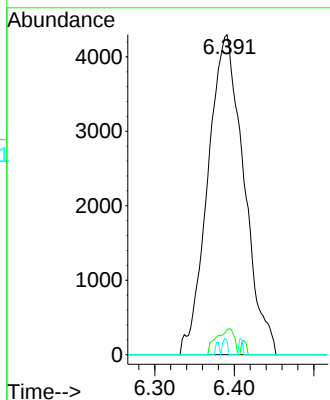
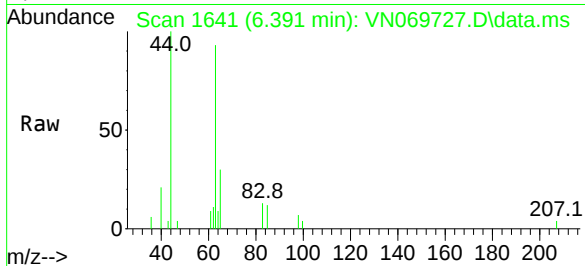




#24
1,1-Dichloroethane
Concen: 0.446 ug/l
RT: 6.391 min Scan# 1
Delta R.T. 0.003 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

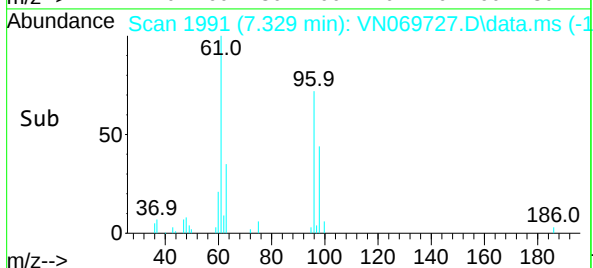
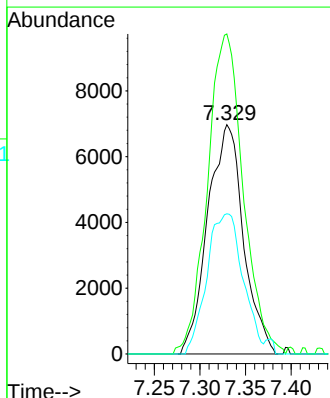
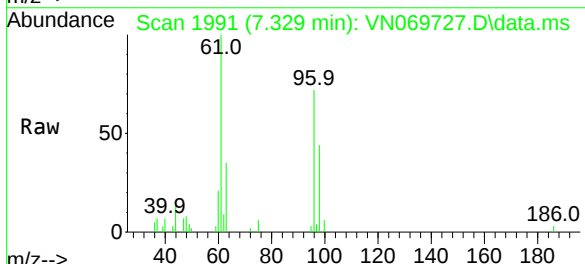
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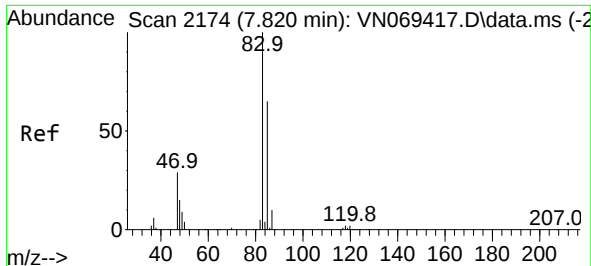
Tgt Ion:	63	Resp:	13484
Ion	Ratio	Lower	Upper
63	100		
98	7.8	3.3	9.9
100	4.4	2.1	6.5



#27
cis-1,2-Dichloroethene
Concen: 1.090 ug/l
RT: 7.329 min Scan# 1991
Delta R.T. 0.003 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

Tgt Ion:	96	Resp:	18958
Ion	Ratio	Lower	Upper
96	100		
61	140.2	0.0	275.0
98	61.8	0.0	129.6

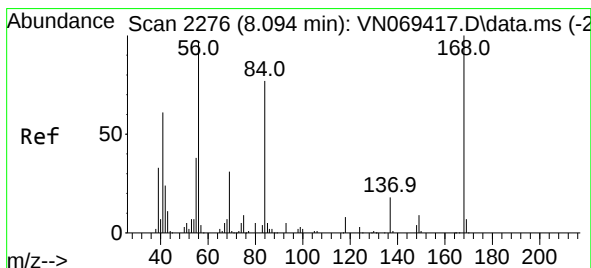
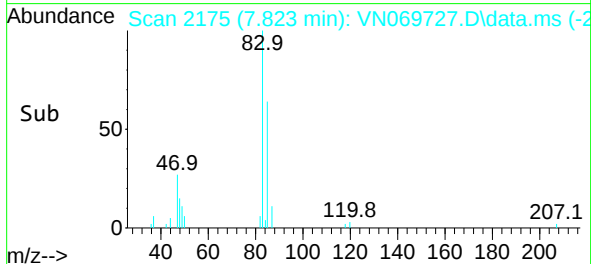
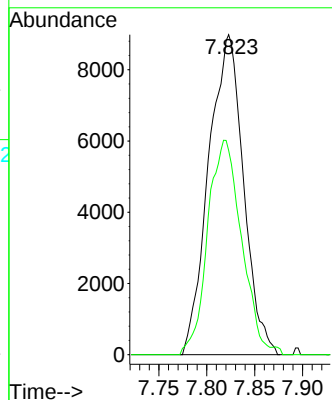
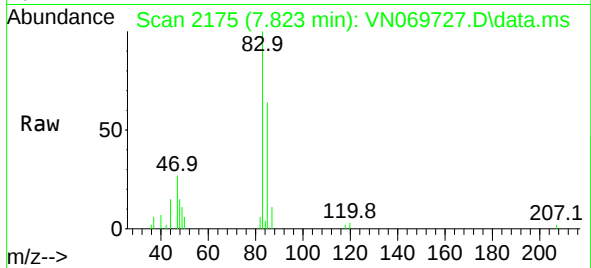




#30
Chloroform
Concen: 0.743 ug/l
RT: 7.823 min Scan# 2175
Delta R.T. 0.003 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

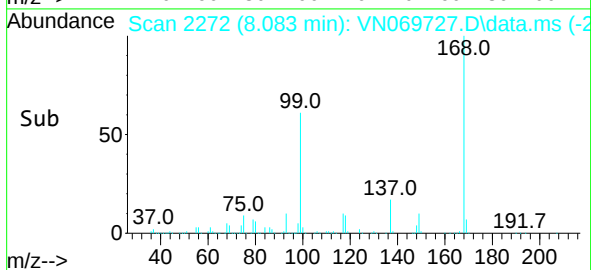
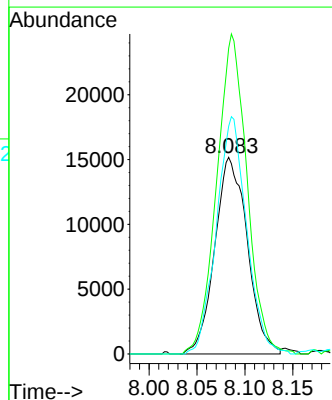
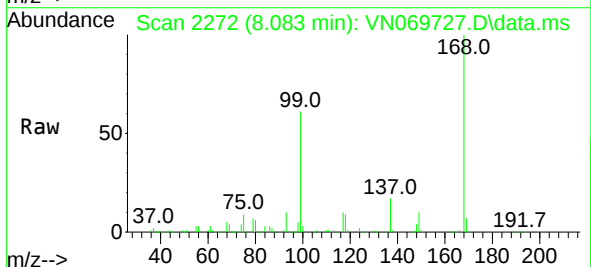
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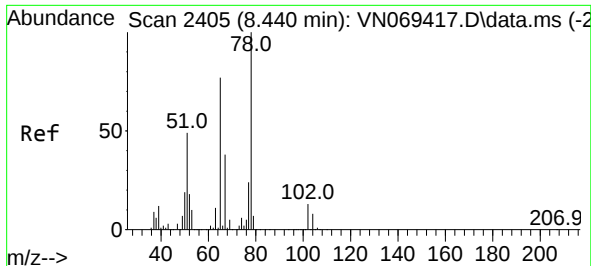
Tgt Ion: 83 Resp: 22704
Ion Ratio Lower Upper
83 100
85 63.8 51.9 77.9



#31
Cyclohexane
Concen: 1.196 ug/l
RT: 8.083 min Scan# 2272
Delta R.T. -0.010 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

Tgt Ion: 56 Resp: 35760
Ion Ratio Lower Upper
56 100
69 155.5 27.1 40.7#
84 115.8 73.4 110.0#

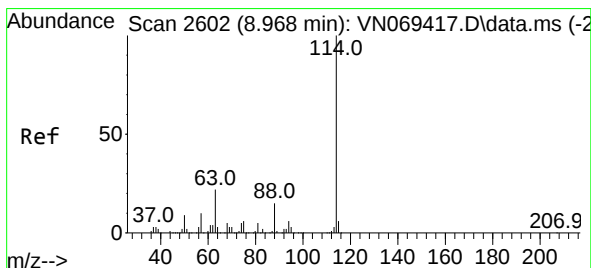
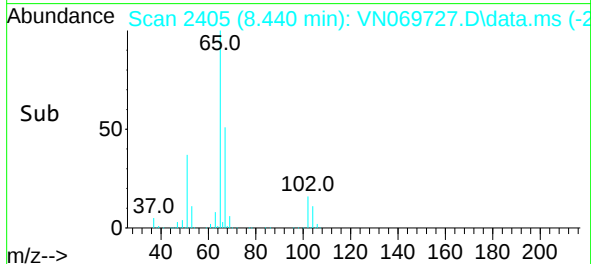
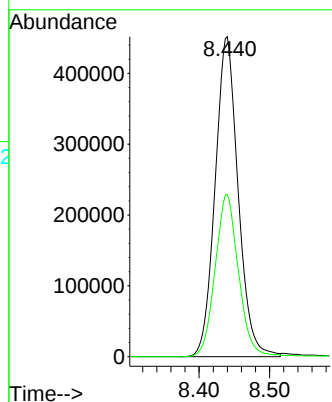
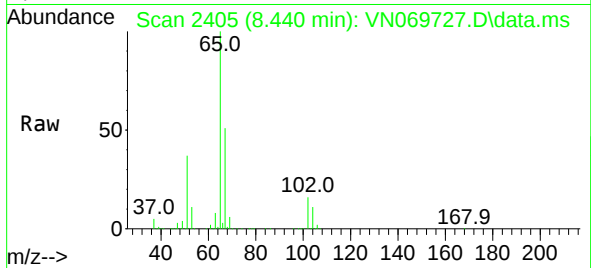




#33
 1,2-Dichloroethane-d4
 Concen: 47.646 ug/l
 RT: 8.440 min Scan# 2405
 Delta R.T. 0.003 min
 Lab File: VN069727.D
 Acq: 3 Dec 2021 19:03

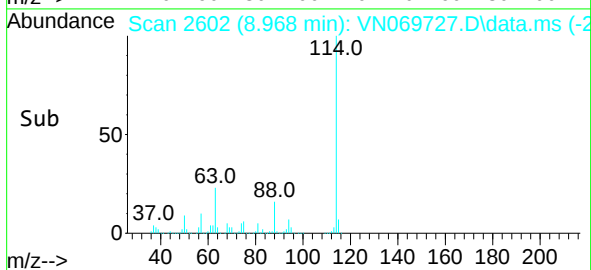
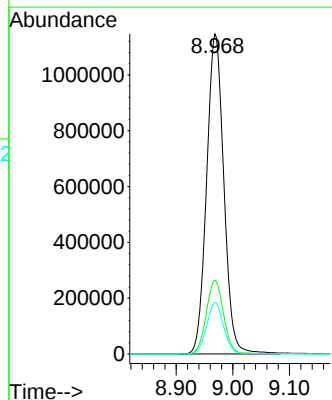
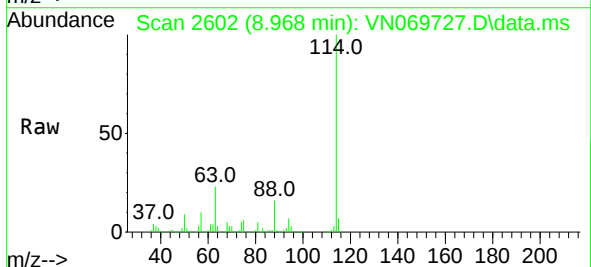
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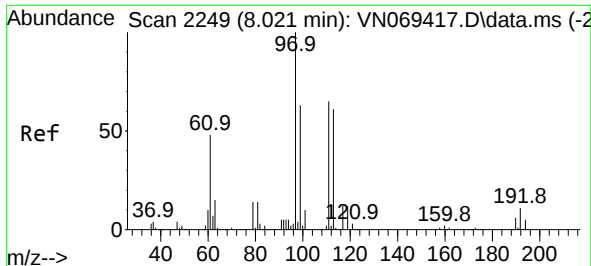
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 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.968 min Scan# 2602
 Delta R.T. 0.000 min
 Lab File: VN069727.D
 Acq: 3 Dec 2021 19:03

Tgt Ion: 114 Resp: 2422176
 Ion Ratio Lower Upper
 114 100
 63 23.1 0.0 37.8
 88 16.2 0.0 27.4

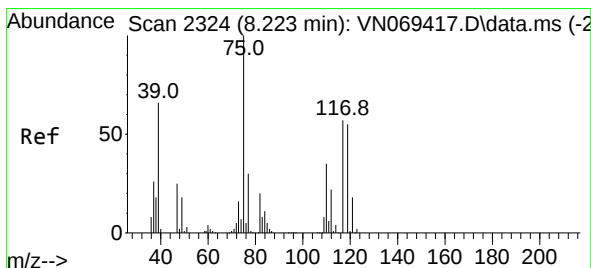
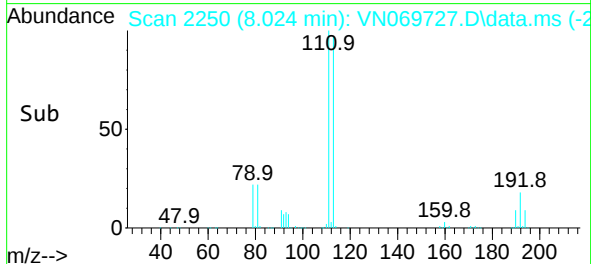
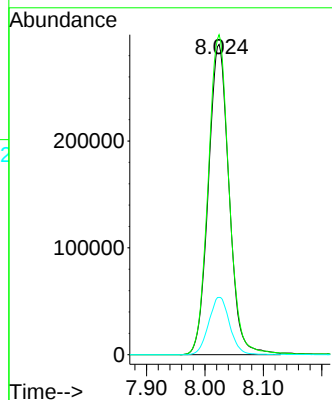
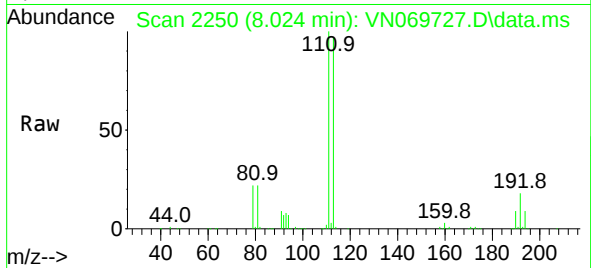




#35
Dibromofluoromethane
Concen: 47.287 ug/l
RT: 8.024 min Scan# 211
Delta R.T. 0.000 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

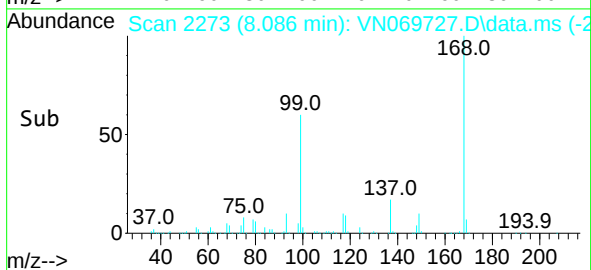
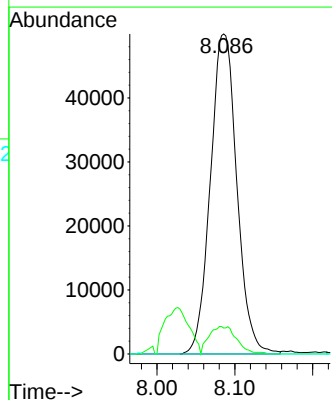
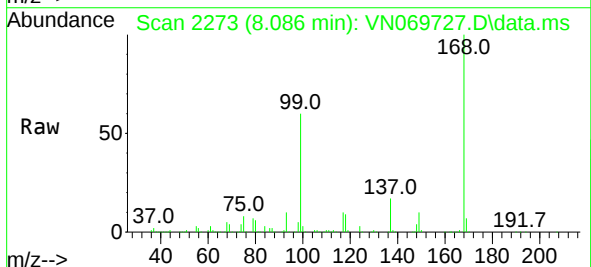
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20211129

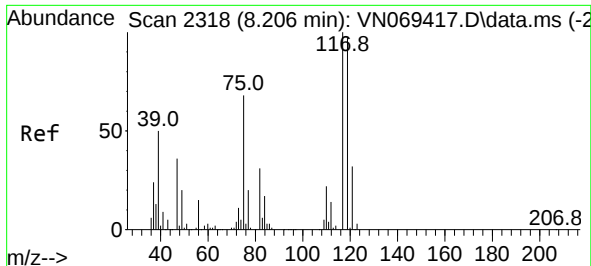
Tgt Ion:113 Resp: 717440
Ion Ratio Lower Upper
113 100
111 103.8 82.2 123.2
192 18.6 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.119 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.137 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

Tgt Ion: 75 Resp: 118032
Ion Ratio Lower Upper
75 100
110 9.0 18.4 55.2#
77 0.0 24.4 36.6#

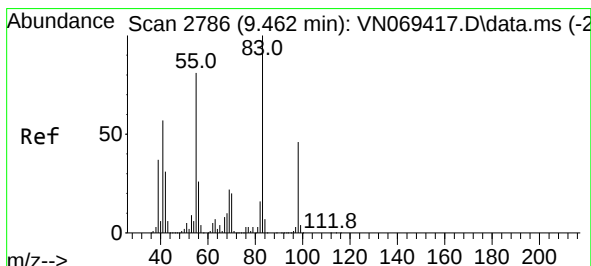
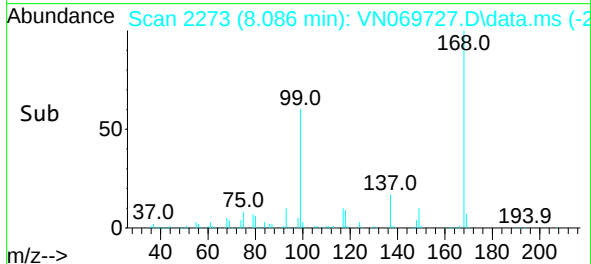
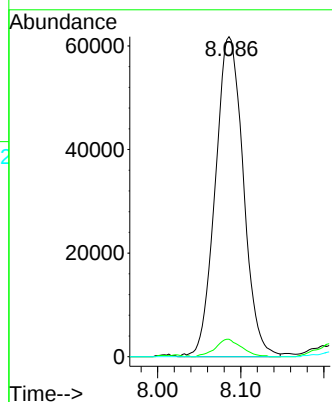
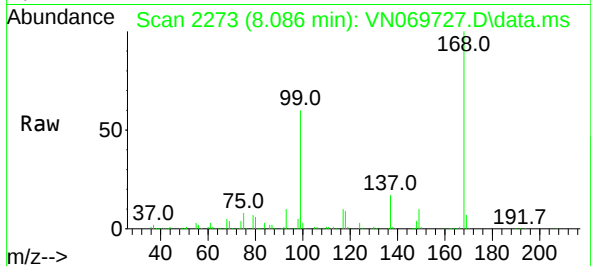




#38
Carbon Tetrachloride
Concen: 6.398 ug/l
RT: 8.086 min Scan# 21
Delta R.T. -0.120 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

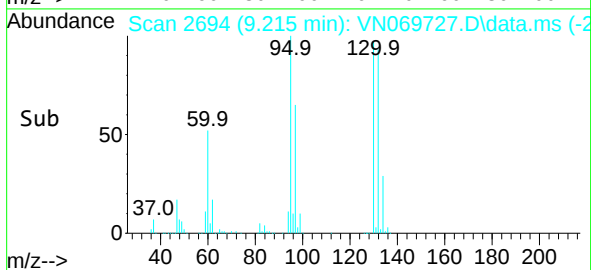
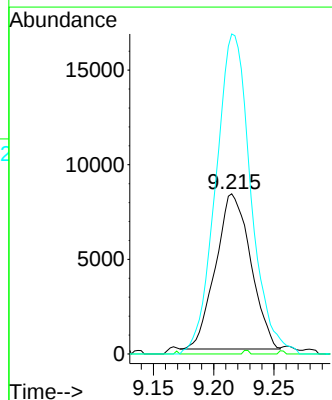
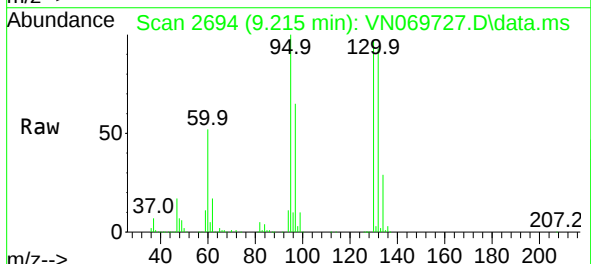
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20211129

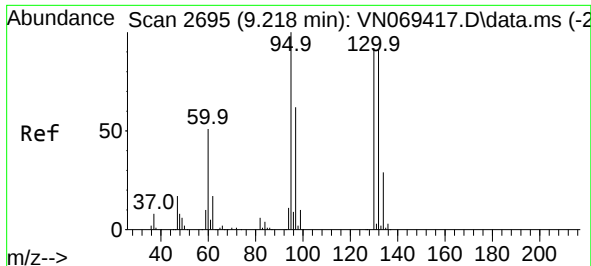
Tgt Ion:117 Resp: 144676
Ion Ratio Lower Upper
117 100
119 5.5 76.1 114.1#
121 0.0 24.2 36.2#



#39
Methylcyclohexane
Concen: 0.606 ug/l
RT: 9.215 min Scan# 2694
Delta R.T. -0.246 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

Tgt Ion: 83 Resp: 16625
Ion Ratio Lower Upper
83 100
55 0.0 58.1 87.1#
98 206.1 38.4 57.6#

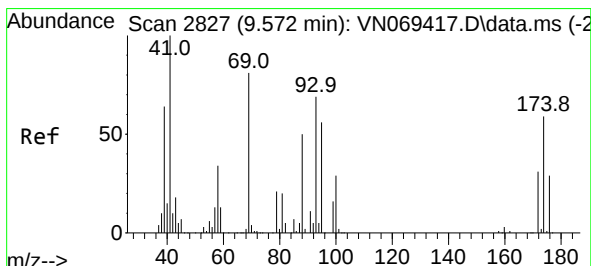
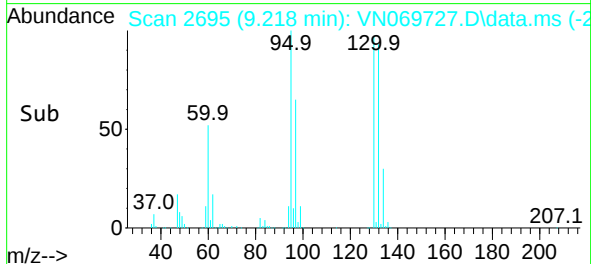
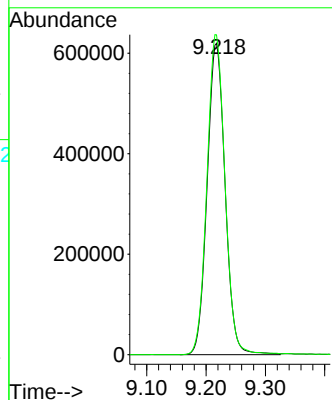
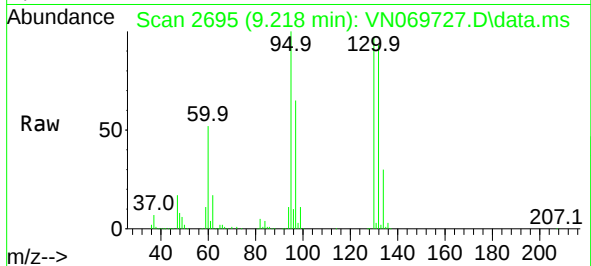




#44
Trichloroethene
Concen: 77.349 ug/l
RT: 9.218 min Scan# 20
Delta R.T. 0.001 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

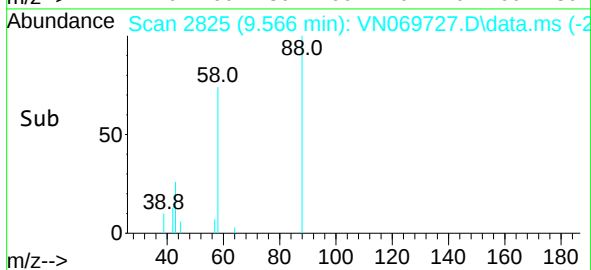
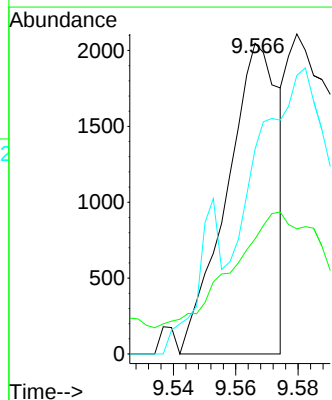
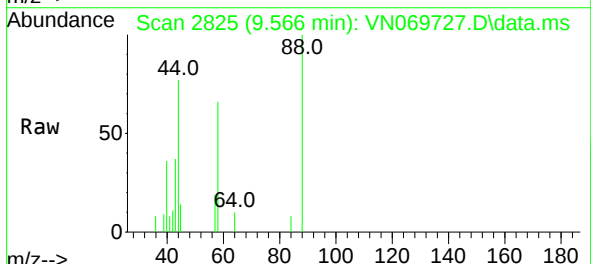
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20211129

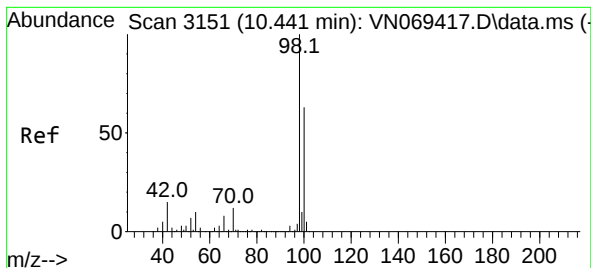
Tgt Ion:130 Resp: 1301183
Ion Ratio Lower Upper
130 100
95 102.7 0.0 191.2



#49
1,4-Dioxane
Concen: 5.549 ug/l
RT: 9.566 min Scan# 2825
Delta R.T. -0.005 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

Tgt Ion: 88 Resp: 2360
Ion Ratio Lower Upper
88 100
43 88.9 23.4 35.2#
58 160.0 50.6 75.8#





#50

Toluene-d8

Concen: 51.003 ug/l

RT: 10.443 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN069727.D

Acq: 3 Dec 2021 19:03

Instrument :

MSVOA_N

ClientSampleId :

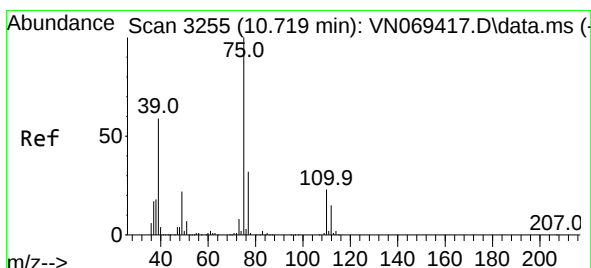
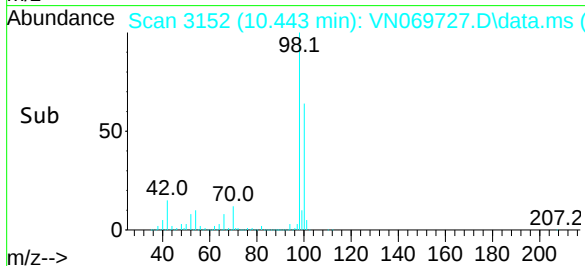
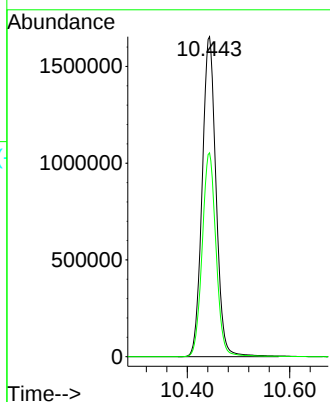
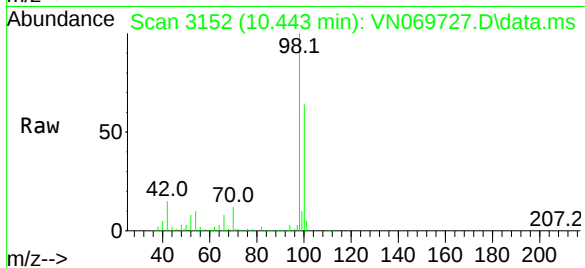
RE132D5-20211129

Tgt Ion: 98 Resp: 3107160

Ion Ratio Lower Upper

98 100

100 63.7 50.4 75.6



#53

t-1,3-Dichloropropene

Concen: 2.796 ug/l

RT: 10.626 min Scan# 3220

Delta R.T. -0.093 min

Lab File: VN069727.D

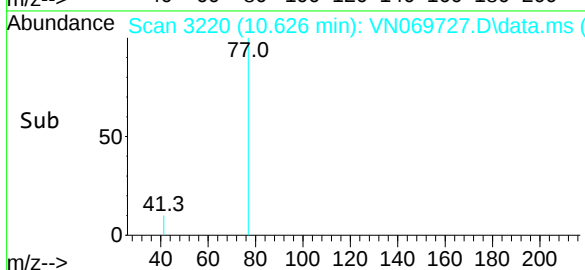
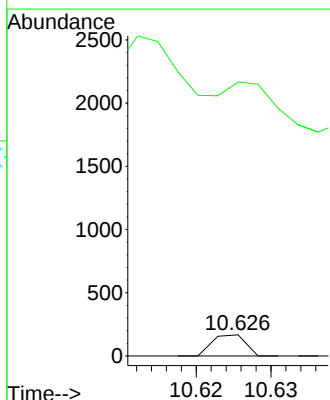
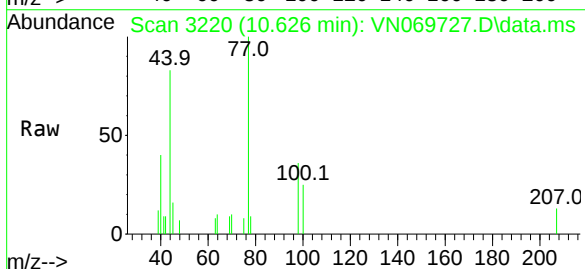
Acq: 3 Dec 2021 19:03

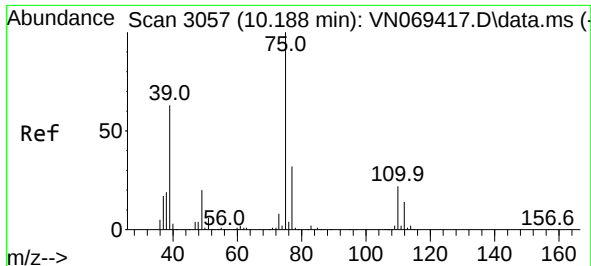
Tgt Ion: 75 Resp: 52

Ion Ratio Lower Upper

75 100

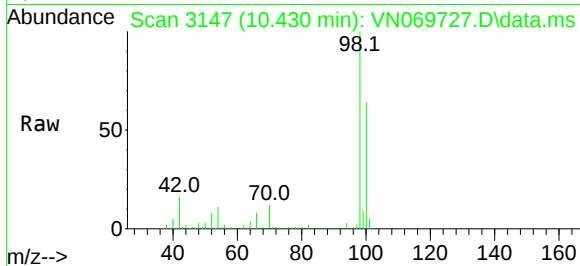
77 124.0 25.6 38.4#



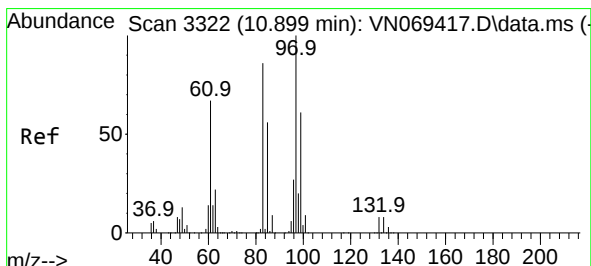
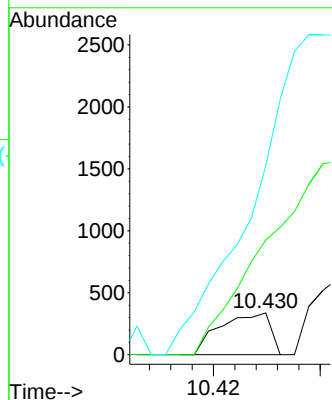
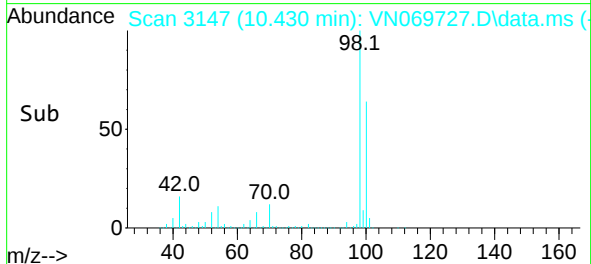


#54
cis-1,3-Dichloropropene
Concen: 2.006 ug/l
RT: 10.430 min Scan# 3147
Delta R.T. 0.239 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20211129

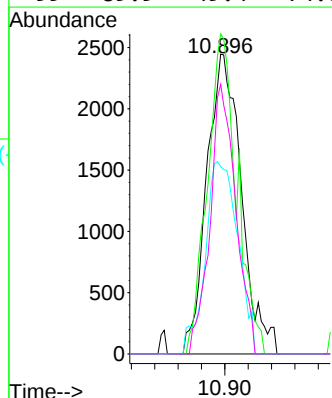
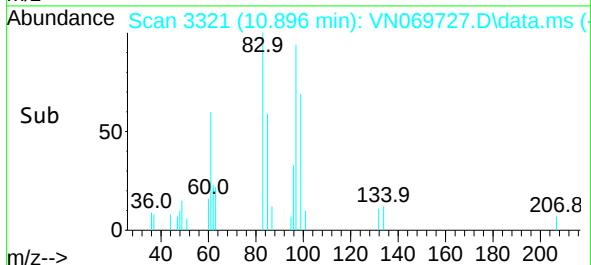
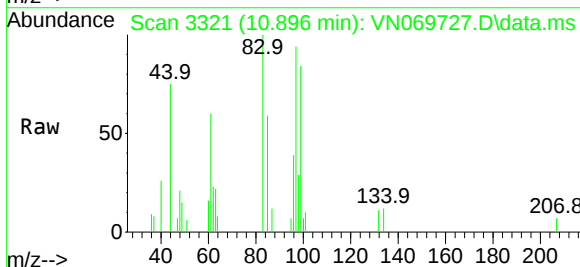


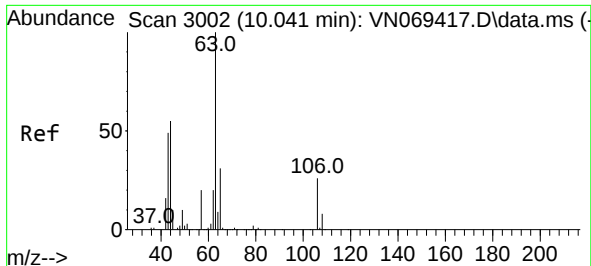
Tgt Ion: 75 Resp: 219
Ion Ratio Lower Upper
75 100
77 273.7 26.4 39.6#
39 391.1 42.5 63.7#



#55
1,1,2-Trichloroethane
Concen: 0.290 ug/l
RT: 10.896 min Scan# 3321
Delta R.T. -0.002 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

Tgt Ion: 97 Resp: 5030
Ion Ratio Lower Upper
97 100
83 106.7 67.8 101.6#
85 62.5 45.4 68.2
99 89.9 49.4 74.0#

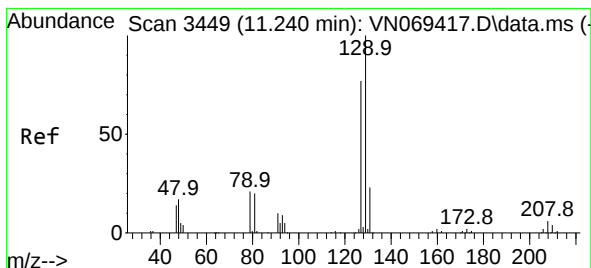
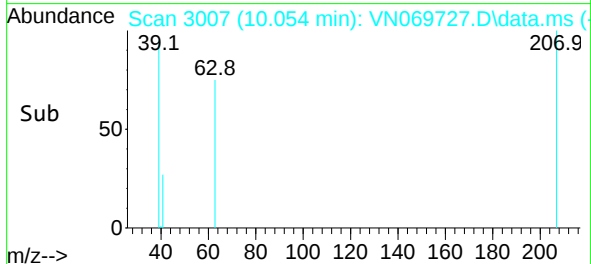
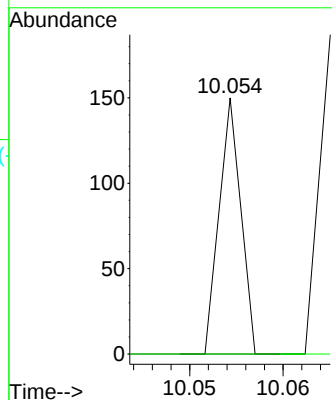
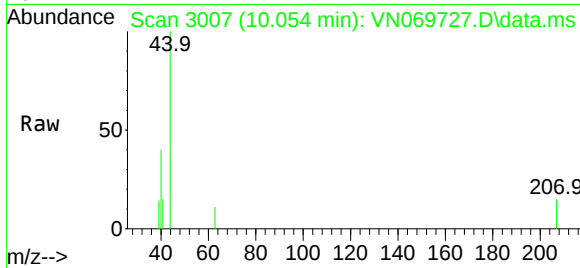




#58
2-Chloroethyl Vinyl ether
Concen: 18.391 ug/l
RT: 10.054 min Scan# 3007
Delta R.T. 0.011 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

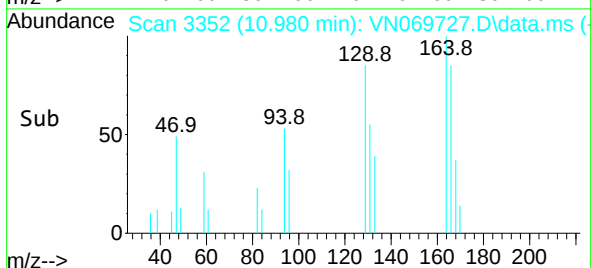
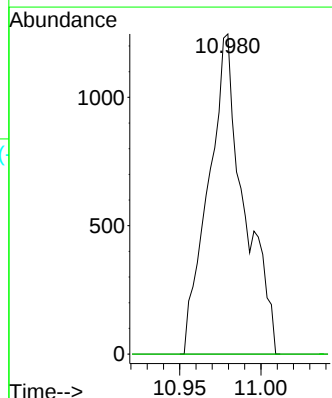
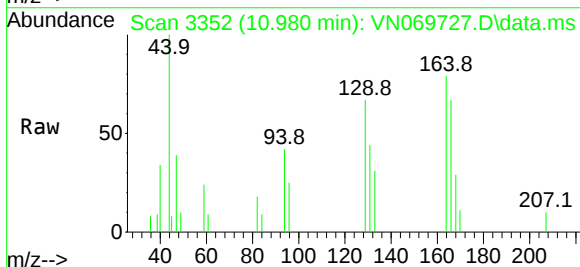
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20211129

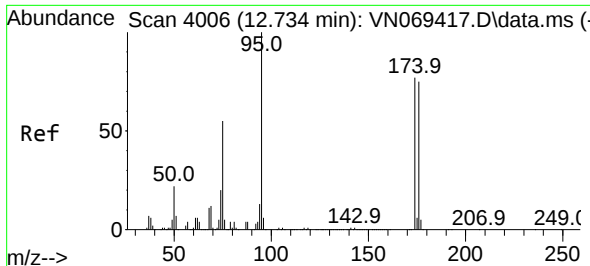
Tgt Ion: 63 Resp: 24
Ion Ratio Lower Upper
63 100
106 0.0 23.9 35.9#



#60
Dibromochloromethane
Concen: 2.474 ug/l
RT: 10.980 min Scan# 3352
Delta R.T. -0.260 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

Tgt Ion: 129 Resp: 1902
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#

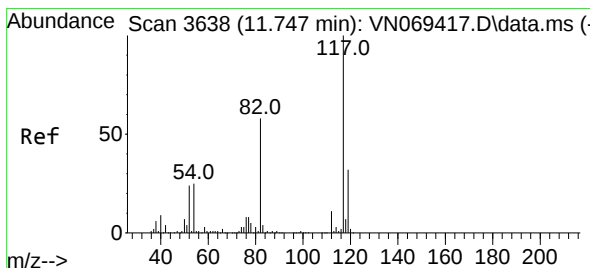
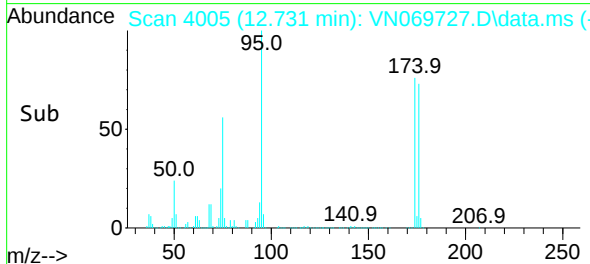
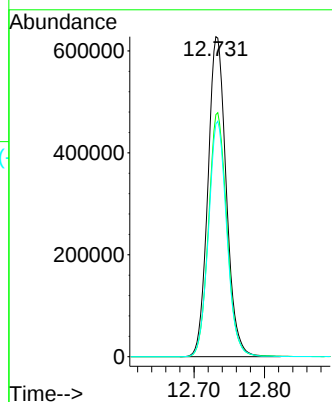
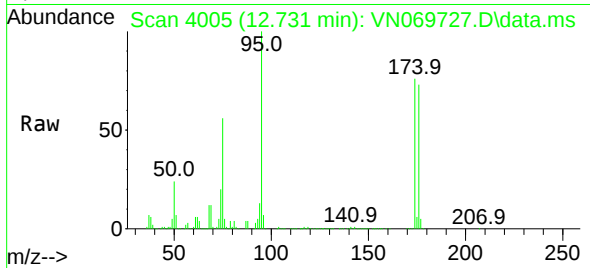




#62
4-Bromofluorobenzene
Concen: 51.392 ug/l
RT: 12.731 min Scan# 4006
Delta R.T. -0.000 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

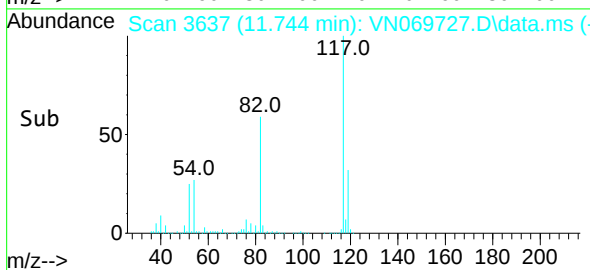
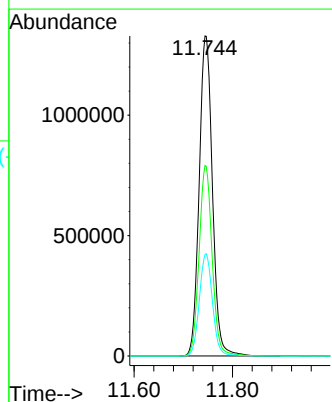
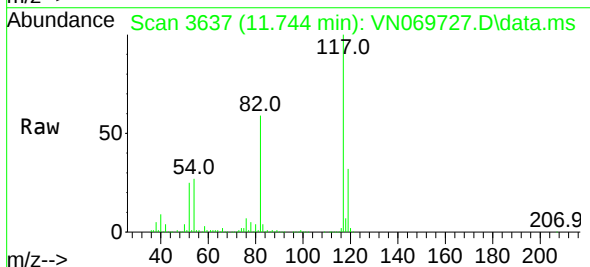
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20211129

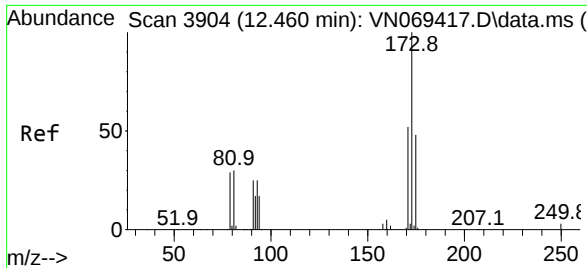
Tgt Ion: 95 Resp: 1134240
Ion Ratio Lower Upper
95 100
174 76.3 0.0 187.2
176 73.2 0.0 181.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.744 min Scan# 3637
Delta R.T. -0.002 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

Tgt Ion: 117 Resp: 2482941
Ion Ratio Lower Upper
117 100
82 59.5 42.4 63.6
119 31.7 25.4 38.2

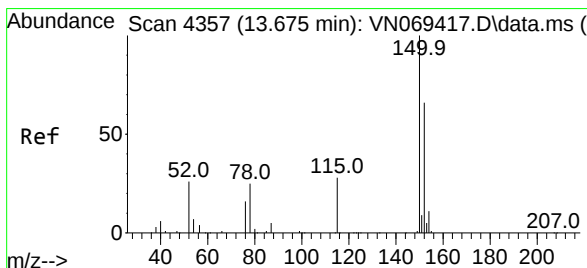
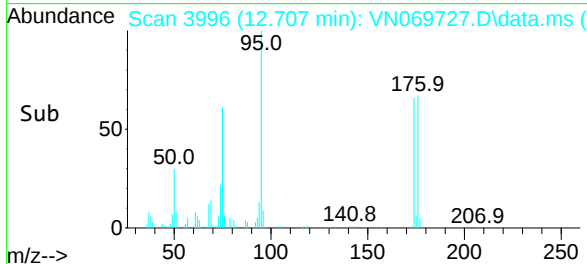
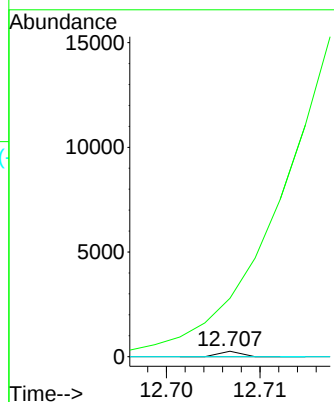
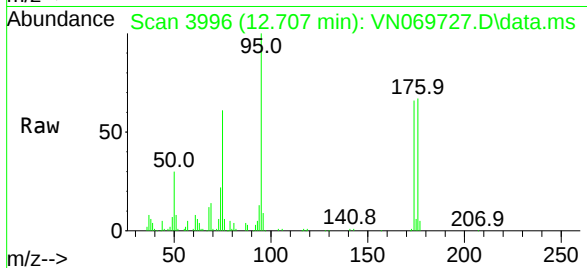




#71
Bromoform
Concen: 2.734 ug/l
RT: 12.707 min Scan# 3904
Delta R.T. 0.247 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

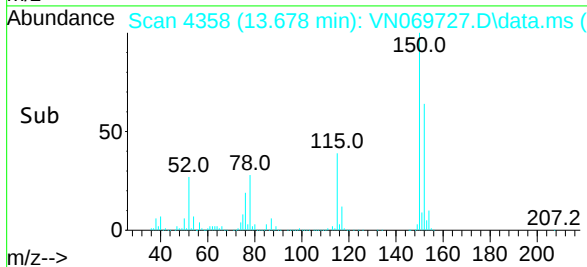
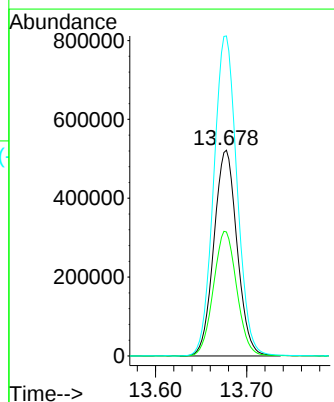
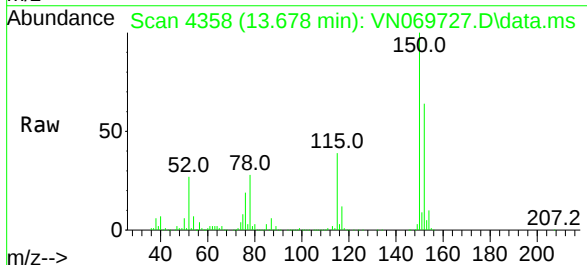
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20211129

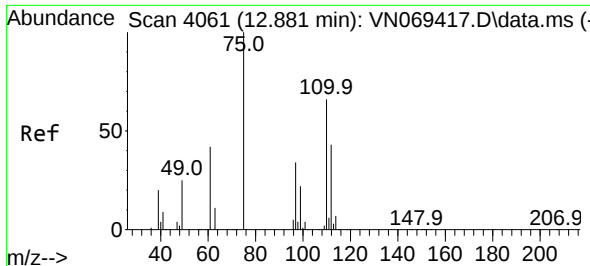
Tgt Ion:173 Resp: 42
Ion Ratio Lower Upper
173 100
175 0.0 24.2 72.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.678 min Scan# 4358
Delta R.T. 0.000 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

Tgt Ion:152 Resp: 921602
Ion Ratio Lower Upper
152 100
115 61.1 27.5 82.5
150 156.8 0.0 344.4

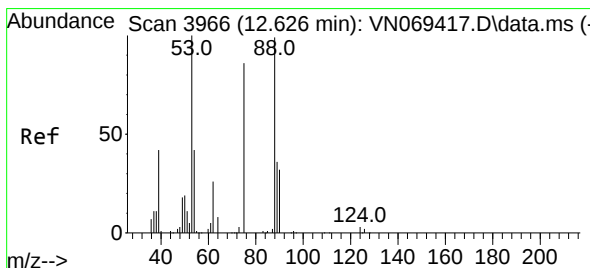
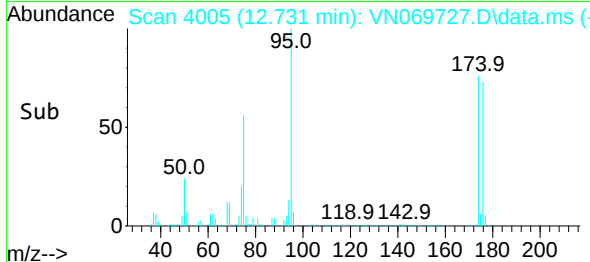
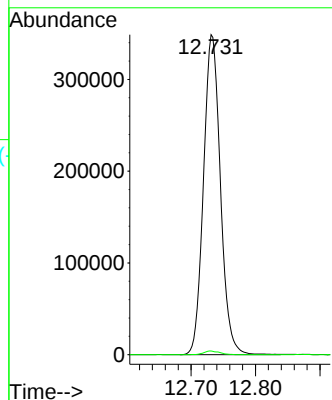
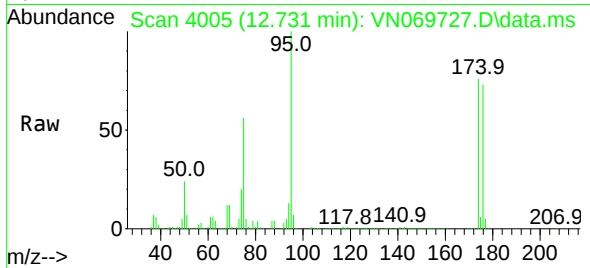




#76
1,2,3-Trichloropropane
Concen: 24.038 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. -0.150 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

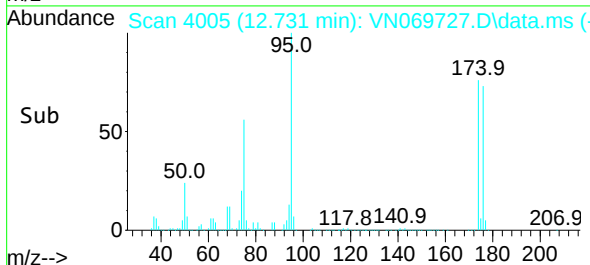
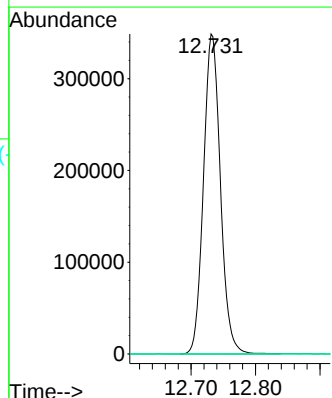
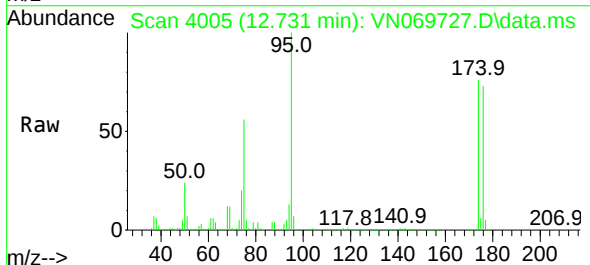
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20211129

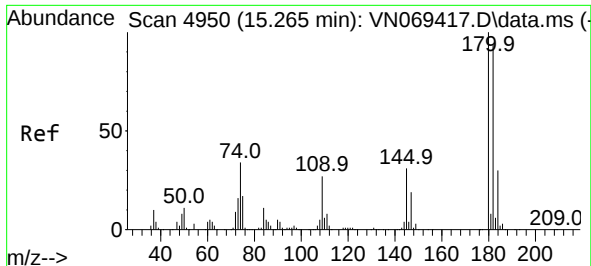
Tgt Ion: 75 Resp: 635302
Ion Ratio Lower Upper
75 100
77 1.1 82.6 247.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.344 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.105 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

Tgt Ion: 75 Resp: 635302
Ion Ratio Lower Upper
75 100
53 0.1 90.5 135.7#
89 0.0 38.2 57.4#

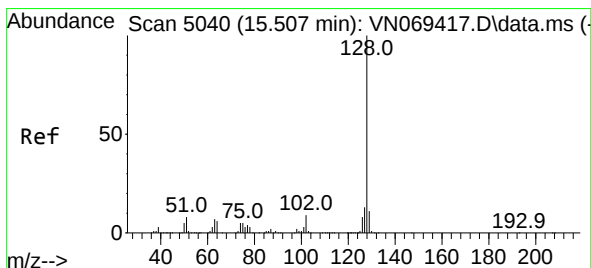
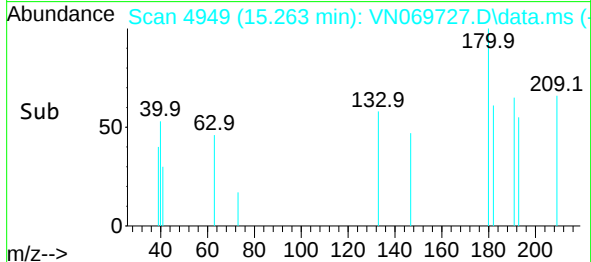
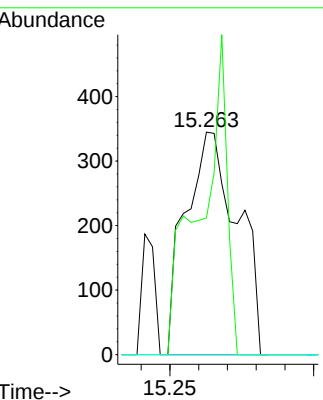
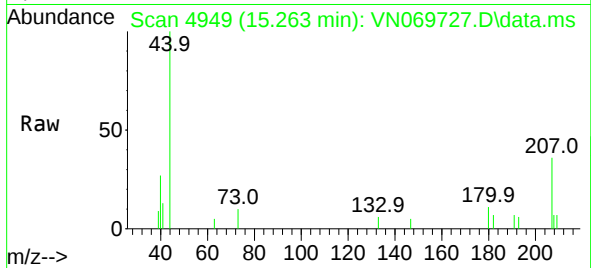




#93
1,2,4-Trichlorobenzene
Concen: 2.905 ug/l
RT: 15.263 min Scan# 4950
Delta R.T. -0.002 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

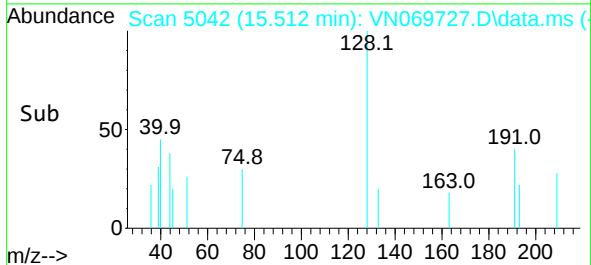
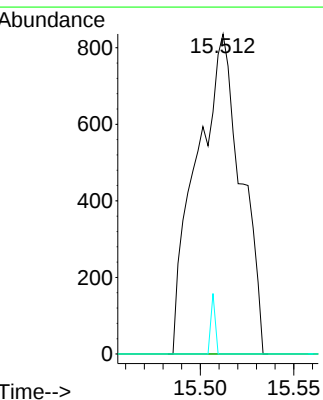
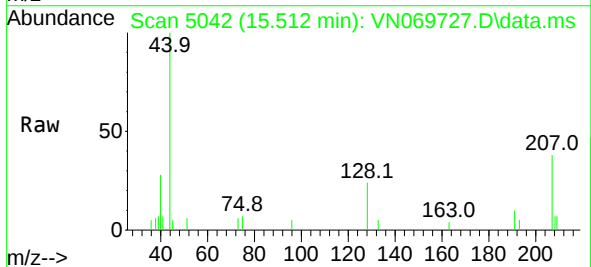
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20211129

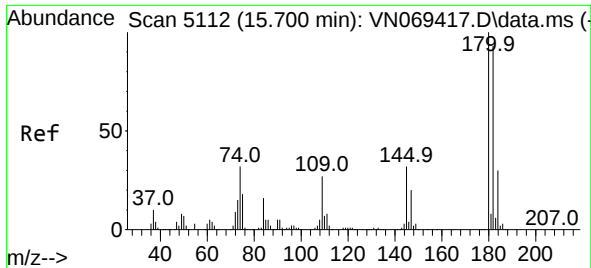
Tgt Ion:180 Resp: 434
Ion Ratio Lower Upper
180 100
182 73.7 48.3 144.9
145 0.0 14.5 43.5#



#95
Naphthalene
Concen: 4.013 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.005 min
Lab File: VN069727.D
Acq: 3 Dec 2021 19:03

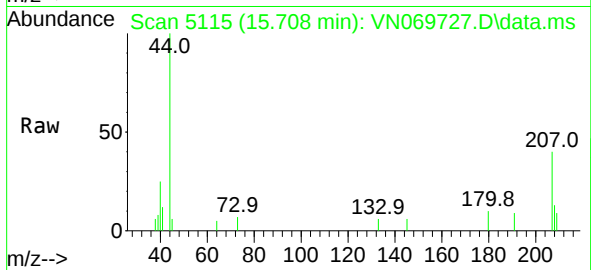
Tgt Ion:128 Resp: 1380
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 1.8 8.7 13.1#





#96
 1,2,3-Trichlorobenzene
 Concen: 2.461 ug/l
 RT: 15.708 min Scan# 5112
 Delta R.T. 0.006 min
 Lab File: VN069727.D
 Acq: 3 Dec 2021 19:03

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D5-20211129



Tgt Ion:180 Resp: 398
 Ion Ratio Lower Upper
 180 100
 182 28.9 47.4 142.2#
 145 24.9 15.0 45.1

