

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051823\
 Data File : VN077747.D
 Acq On : 18 May 2023 19:27
 Operator : JC\MD
 Sample : 02834-11
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D1-20230517

Quant Time: May 29 08:55:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

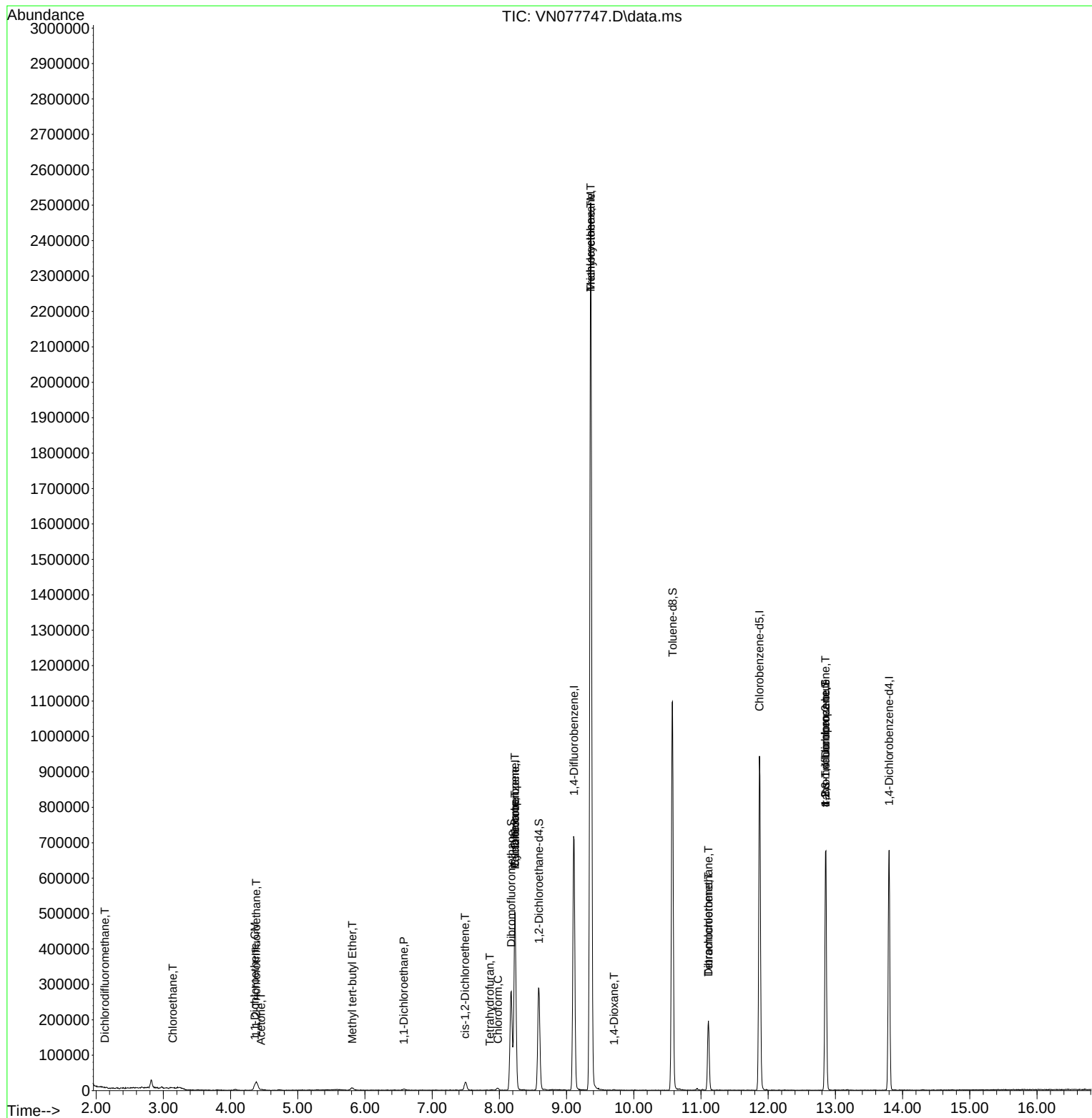
Internal Standards						
1) Pentafluorobenzene	8.235	168	357667	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.112	114	648642	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	564819	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	183601	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	242882	45.385	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	90.760%		
35) Dibromofluoromethane	8.177	113	205098	48.490	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.980%		
50) Toluene-d8	10.576	98	811460	49.842	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.680%		
62) 4-Bromofluorobenzene	12.853	95	249518	43.395	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	86.780%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.130	85	1040	0.255	ug/l #	43
3) Chloromethane	2.377	50	898	Below Cal	#	83
6) Chloroethane	3.142	64	744	0.201	ug/l #	43
9) 1,1,2-Trichlorotrifluo...	4.383	101	13685	3.458	ug/l #	88
12) 1,1-Dichloroethene	4.359	96	4426	1.177	ug/l #	83
16) Acetone	4.453	43	1919	1.140	ug/l	92
19) Methyl tert-butyl Ether	5.812	73	10457	0.768	ug/l	92
20) Methylene Chloride	5.283	84	410	Below Cal	#	78
24) 1,1-Dichloroethane	6.577	63	5049	0.636	ug/l #	81
27) cis-1,2-Dichloroethene	7.488	96	14233	2.809	ug/l	92
29) Tetrahydrofuran	7.859	42	442	0.256	ug/l #	20
30) Chloroform	7.977	83	5623	0.644	ug/l	100
31) Cyclohexane	8.230	56	9281	1.276	ug/l #	21
36) 1,1-Dichloropropene	8.230	75	32228	5.209	ug/l #	48
39) Methylcyclohexane	9.359	83	11087	1.464	ug/l #	1
44) Trichloroethene	9.359	130	874677	189.213	ug/l	97
49) 1,4-Dioxane	9.706	88	1490	18.474	ug/l #	74
60) Dibromochloromethane	11.112	129	43838	9.410	ug/l #	11
64) Tetrachloroethene	11.112	164	41244	10.442	ug/l	95
76) 1,2,3-Trichloropropane	12.853	75	132816	28.885	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	132816	92.333	ug/l #	15

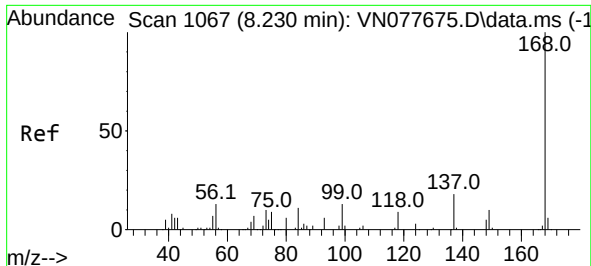
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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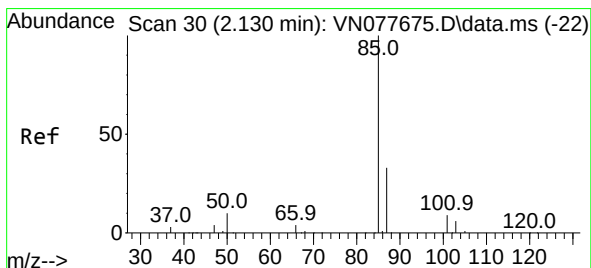
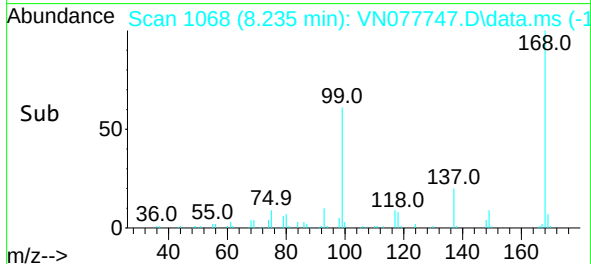
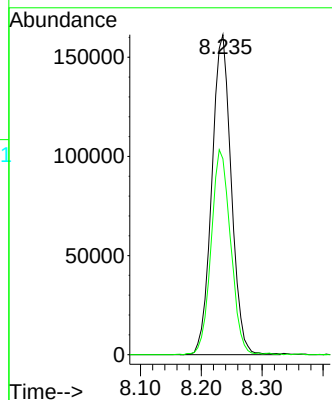
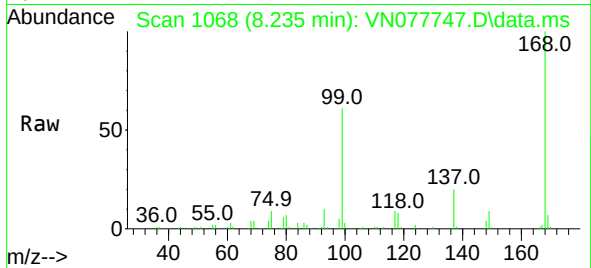




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.235 min Scan# 10
Delta R.T. 0.005 min
Lab File: VN077747.D
Acq: 18 May 2023 19:27

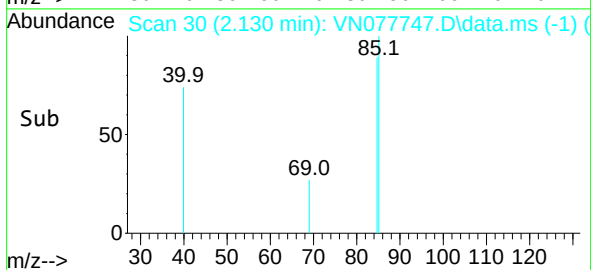
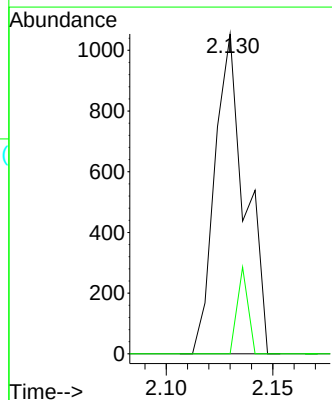
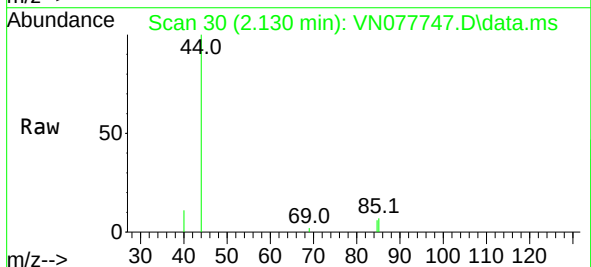
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20230517

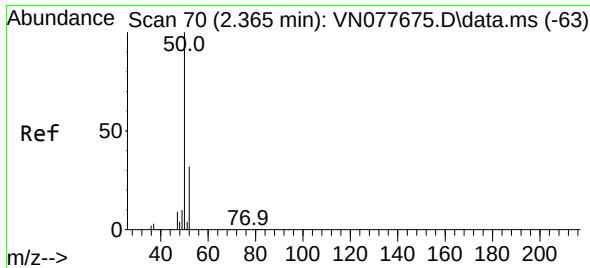
Tgt Ion:168 Resp: 357667
Ion Ratio Lower Upper
168 100
99 61.1 53.0 79.6



#2
Dichlorodifluoromethane
Concen: 0.255 ug/l
RT: 2.130 min Scan# 30
Delta R.T. -0.000 min
Lab File: VN077747.D
Acq: 18 May 2023 19:27

Tgt Ion: 85 Resp: 1040
Ion Ratio Lower Upper
85 100
87 0.0 15.8 47.4#

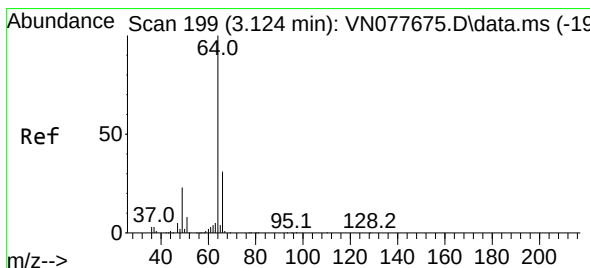
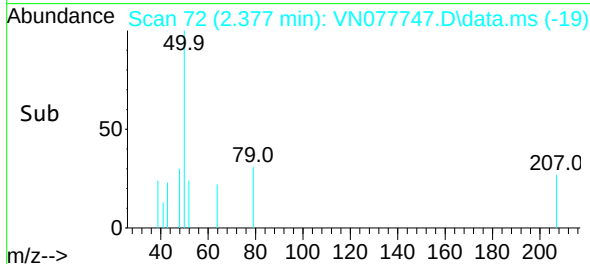
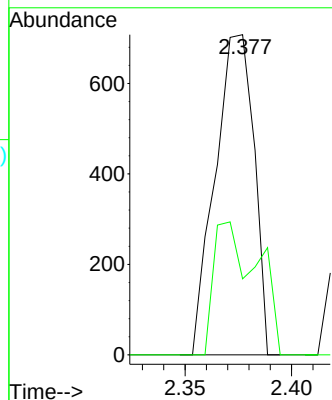
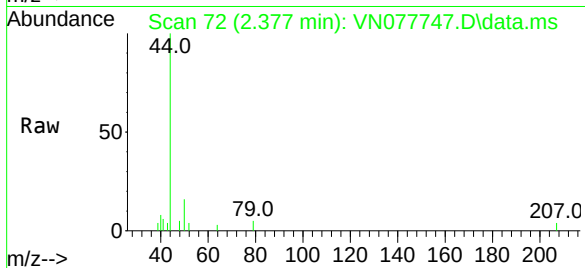




#3
Chloromethane
Concen: Below Cal
RT: 2.377 min Scan# 70
Delta R.T. 0.012 min
Lab File: VN077747.D
Acq: 18 May 2023 19:27

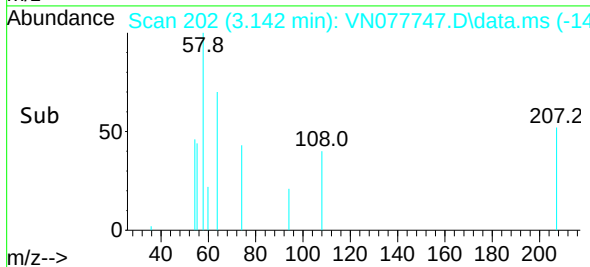
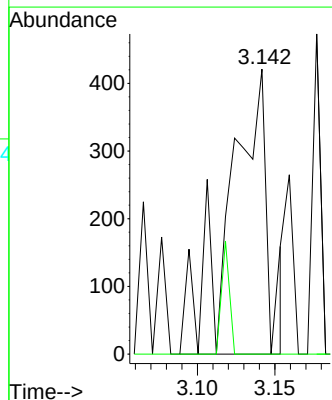
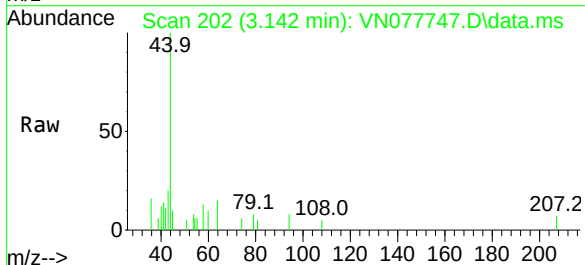
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20230517

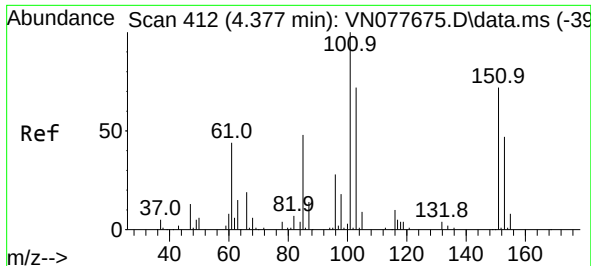
Tgt Ion: 50 Resp: 898
Ion Ratio Lower Upper
50 100
52 23.7 26.5 39.7#



#6
Chloroethane
Concen: 0.201 ug/l
RT: 3.142 min Scan# 202
Delta R.T. 0.018 min
Lab File: VN077747.D
Acq: 18 May 2023 19:27

Tgt Ion: 64 Resp: 744
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.2#

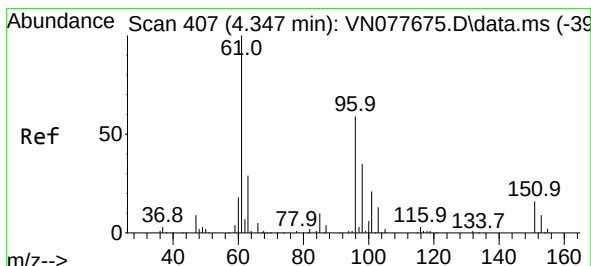
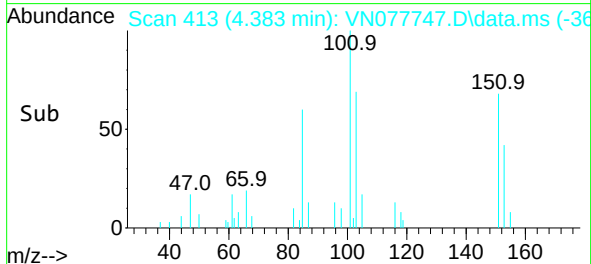
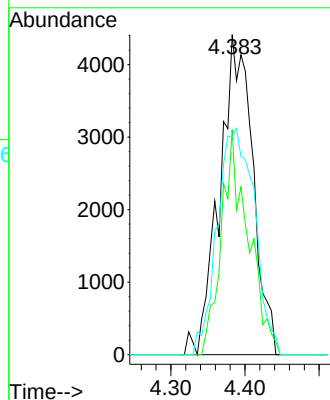
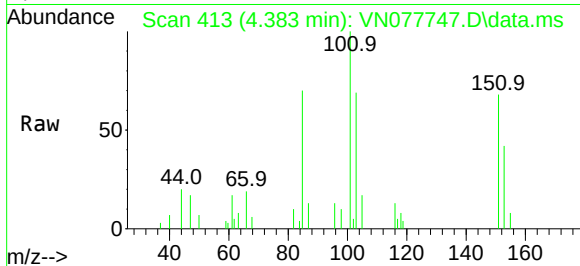




#9
1,1,2-Trichlorotrifluoroethane
Concen: 3.458 ug/l
RT: 4.383 min Scan# 412
Delta R.T. 0.006 min
Lab File: VN077747.D
Acq: 18 May 2023 19:27

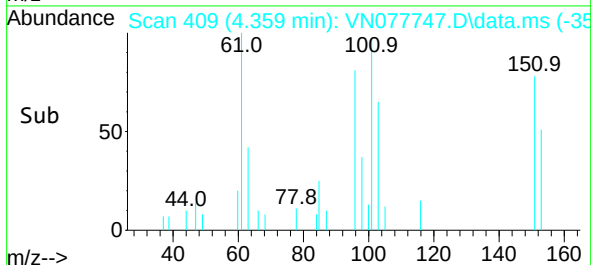
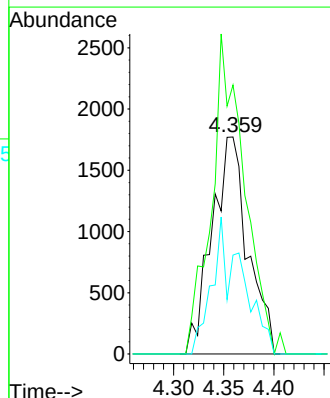
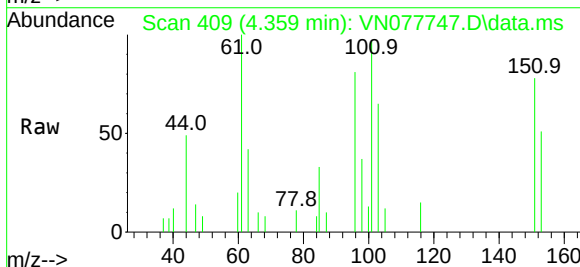
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20230517

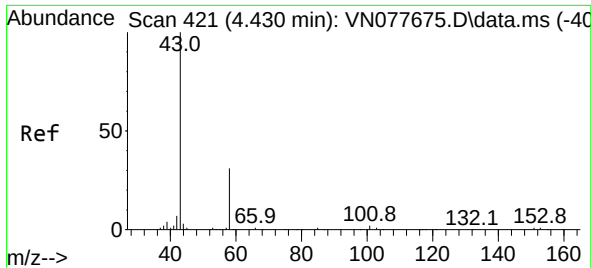
Tgt Ion:101 Resp: 13685
Ion Ratio Lower Upper
101 100
85 56.9 36.6 55.0#
151 79.6 57.6 86.4



#12
1,1-Dichloroethene
Concen: 1.177 ug/l
RT: 4.359 min Scan# 409
Delta R.T. 0.012 min
Lab File: VN077747.D
Acq: 18 May 2023 19:27

Tgt Ion: 96 Resp: 4426
Ion Ratio Lower Upper
96 100
61 123.9 112.7 169.1
98 45.6 51.2 76.8#

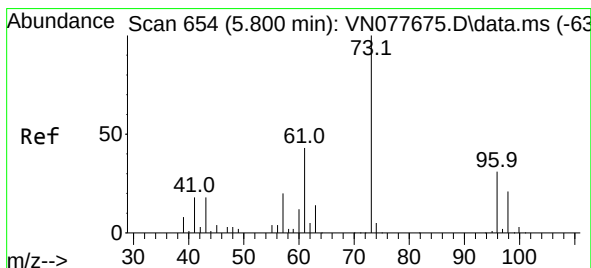
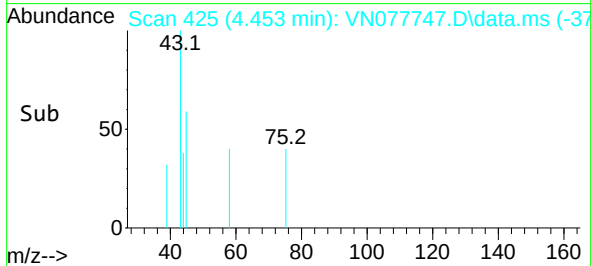
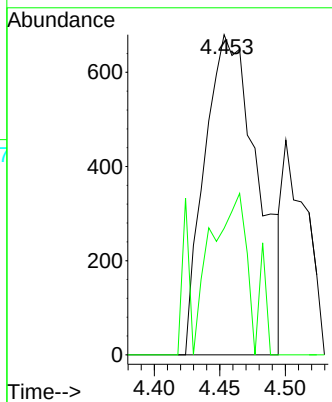
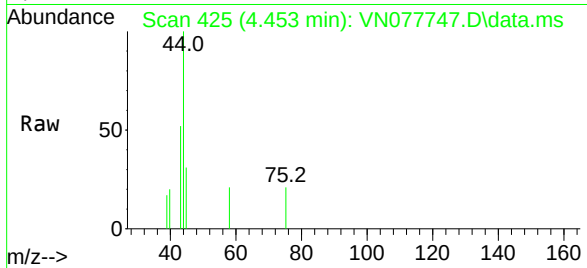




#16
Acetone
Concen: 1.140 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.023 min
Lab File: VN077747.D
Acq: 18 May 2023 19:27

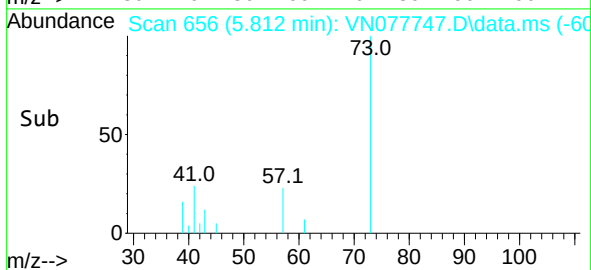
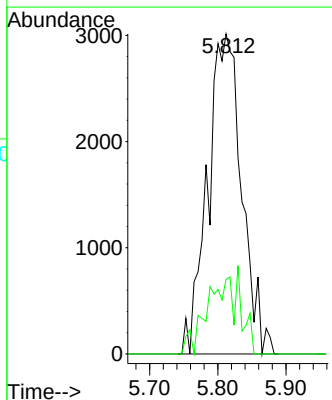
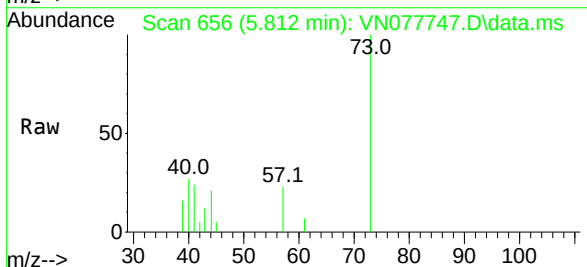
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20230517

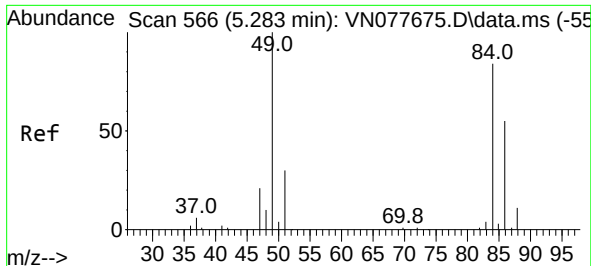
Tgt Ion: 43 Resp: 1919
Ion Ratio Lower Upper
43 100
58 39.6 28.0 42.0



#19
Methyl tert-butyl Ether
Concen: 0.768 ug/l
RT: 5.812 min Scan# 656
Delta R.T. 0.012 min
Lab File: VN077747.D
Acq: 18 May 2023 19:27

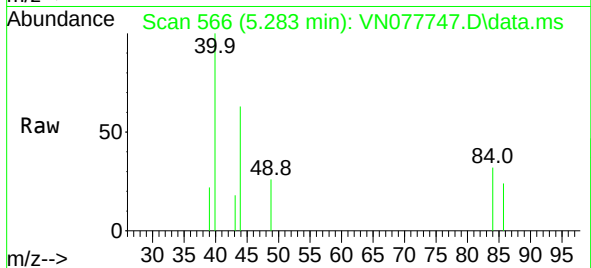
Tgt Ion: 73 Resp: 10457
Ion Ratio Lower Upper
73 100
57 23.3 15.6 23.4



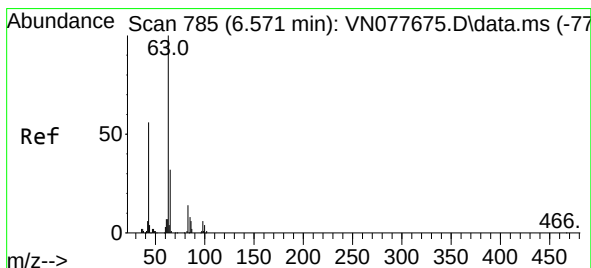
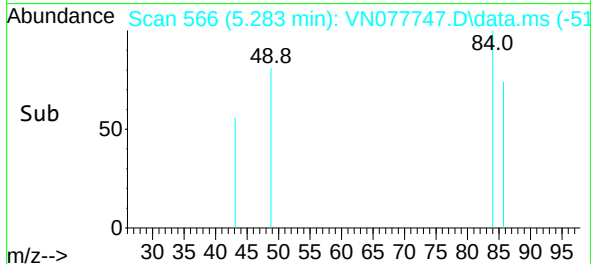
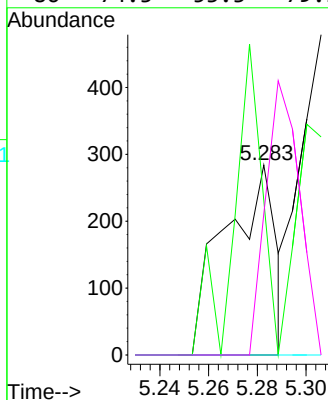


#20
Methylene Chloride
Concen: Below Cal
RT: 5.283 min Scan# 501
Delta R.T. -0.000 min
Lab File: VN077747.D
Acq: 18 May 2023 19:27

Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20230517

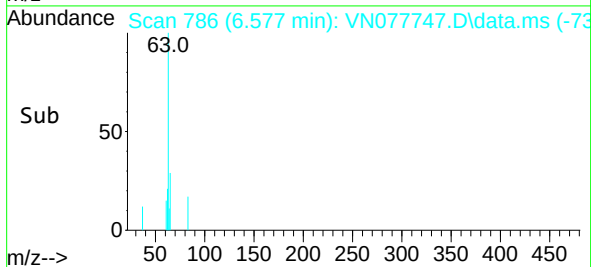
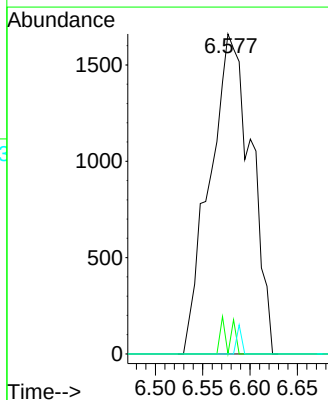
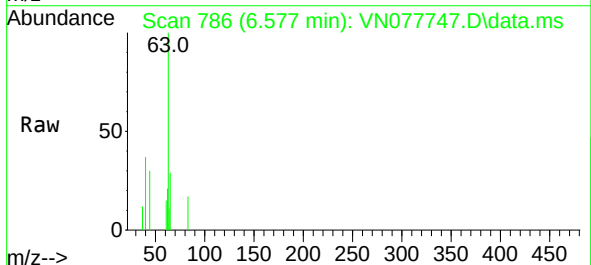


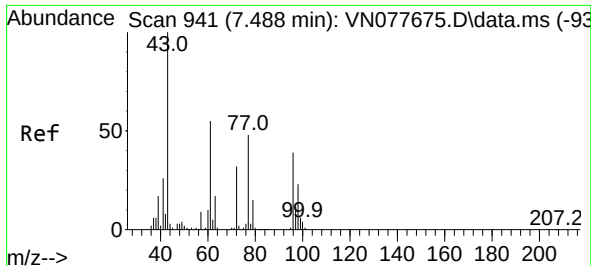
Tgt Ion:	84	Resp:	410
Ion	Ratio	Lower	Upper
84	100		
49	81.3	79.7	119.5
51	0.0	25.2	37.8#
86	74.3	53.3	79.9



#24
1,1-Dichloroethane
Concen: 0.636 ug/l
RT: 6.577 min Scan# 786
Delta R.T. 0.006 min
Lab File: VN077747.D
Acq: 18 May 2023 19:27

Tgt Ion:	63	Resp:	5049
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.9	11.7#
100	0.0	2.5	7.4#





#27

cis-1,2-Dichloroethene

Concen: 2.809 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.000 min

Lab File: VN077747.D

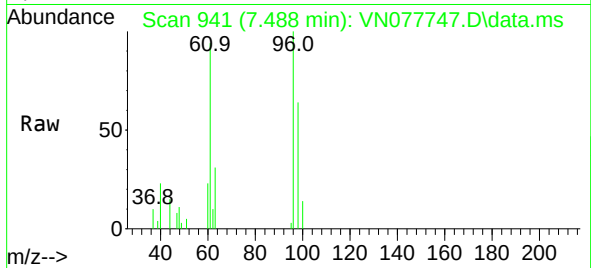
Acq: 18 May 2023 19:27

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20230517



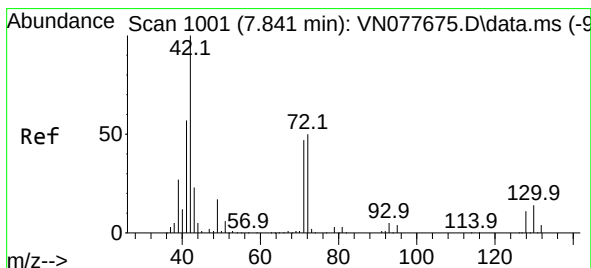
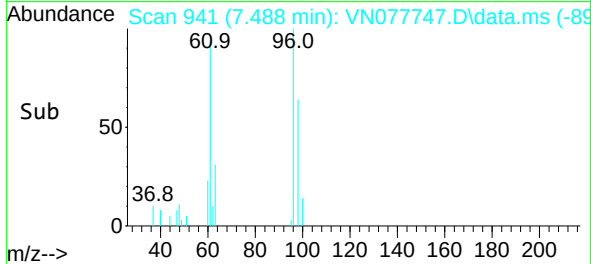
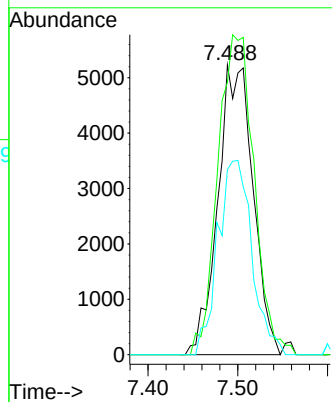
Tgt Ion: 96 Resp: 14233

Ion Ratio Lower Upper

96 100

61 113.8 0.0 255.2

98 65.0 0.0 128.8



#29

Tetrahydrofuran

Concen: 0.256 ug/l

RT: 7.859 min Scan# 1004

Delta R.T. 0.018 min

Lab File: VN077747.D

Acq: 18 May 2023 19:27

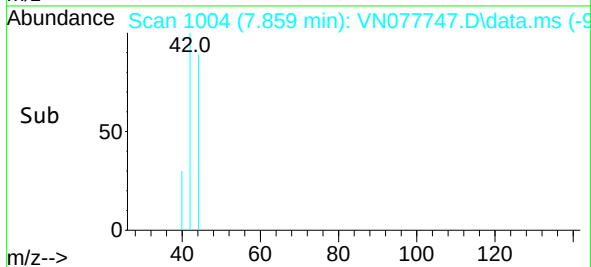
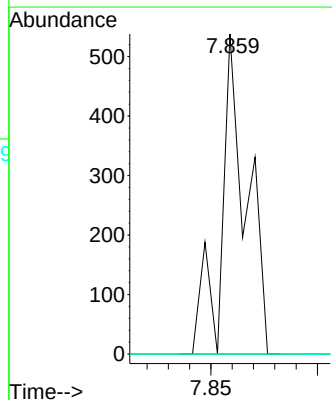
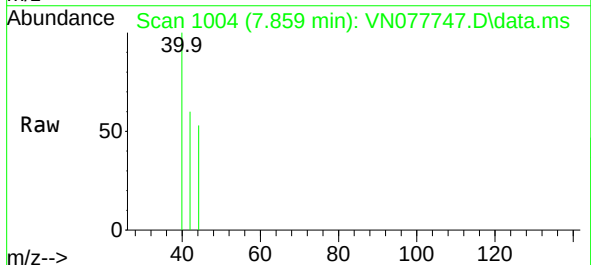
Tgt Ion: 42 Resp: 442

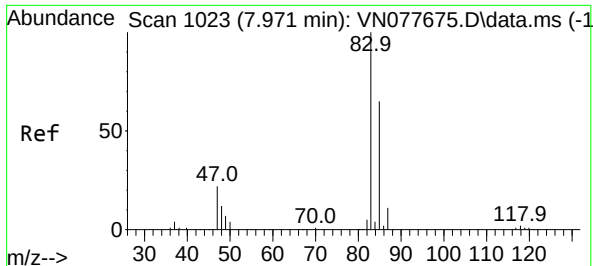
Ion Ratio Lower Upper

42 100

72 0.0 49.8 74.6#

71 0.0 47.4 71.2#





#30

Chloroform

Concen: 0.644 ug/l

RT: 7.977 min Scan# 1023

Delta R.T. 0.006 min

Lab File: VN077747.D

Acq: 18 May 2023 19:27

Instrument :

MSVOA_N

ClientSampleId :

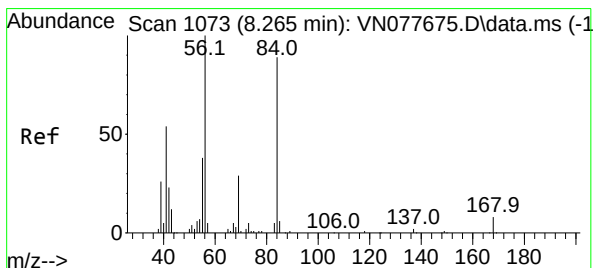
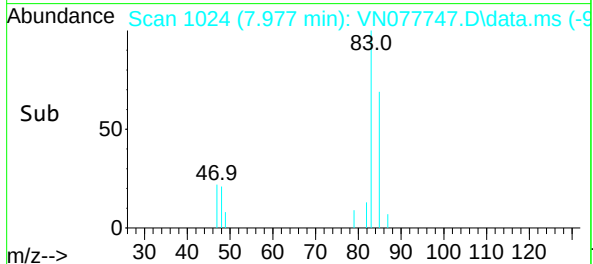
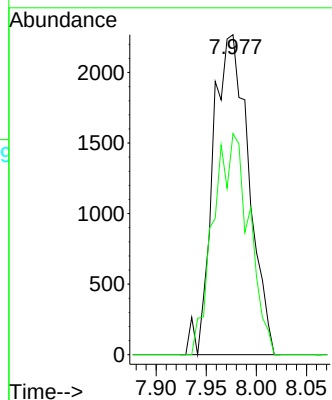
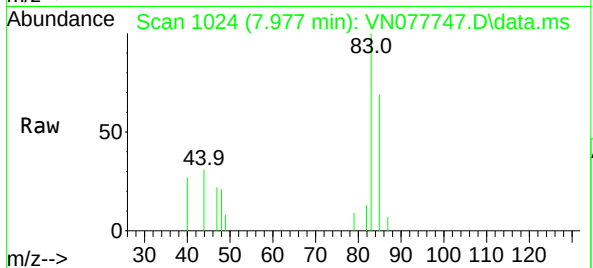
RE125D1-20230517

Tgt Ion: 83 Resp: 5623

Ion Ratio Lower Upper

83 100

85 69.1 55.4 83.0



#31

Cyclohexane

Concen: 1.276 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.035 min

Lab File: VN077747.D

Acq: 18 May 2023 19:27

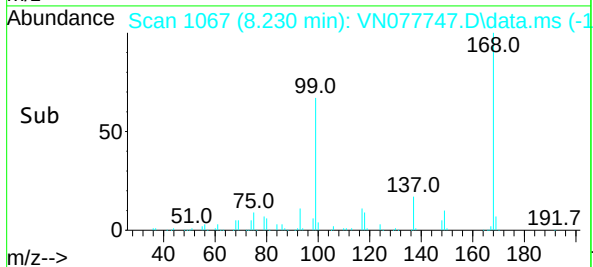
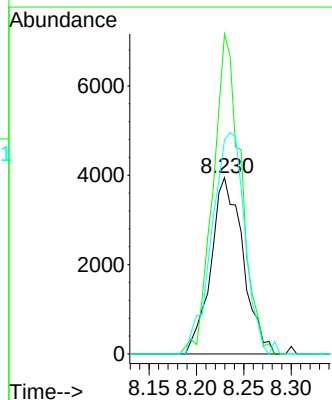
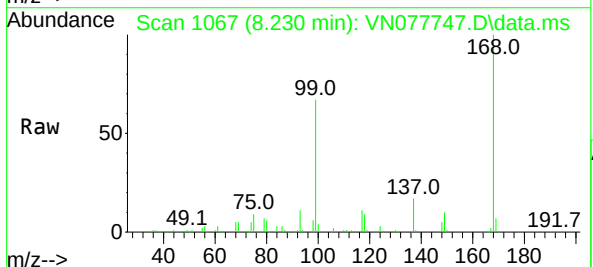
Tgt Ion: 56 Resp: 9281

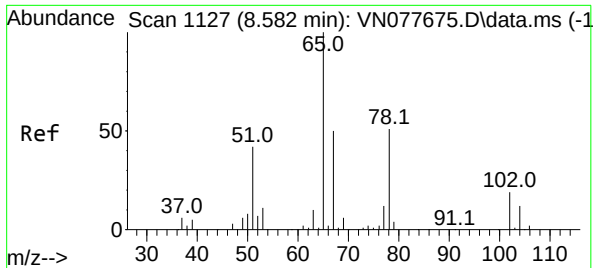
Ion Ratio Lower Upper

56 100

69 181.5 26.8 40.2#

84 121.4 81.8 122.6

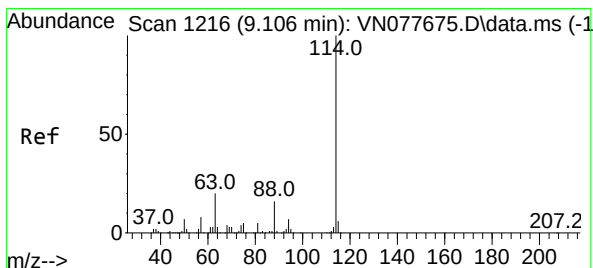
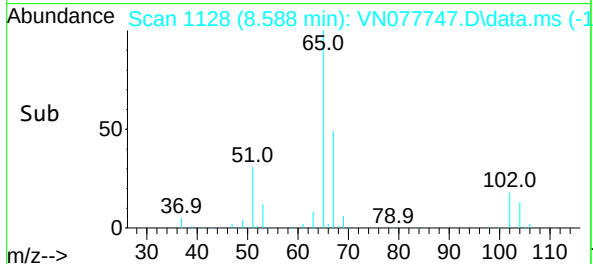
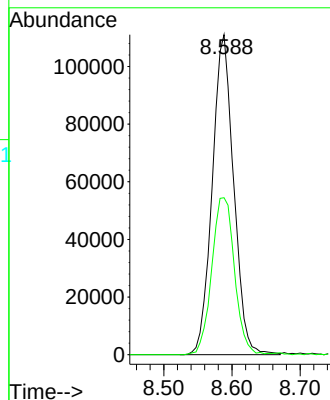
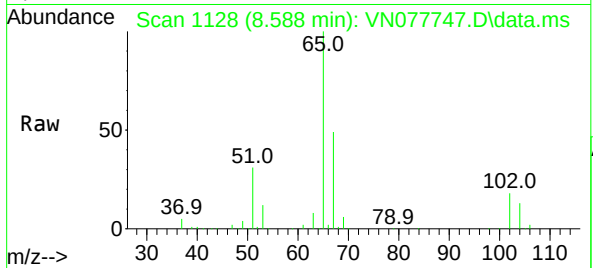




#33
 1,2-Dichloroethane-d4
 Concen: 45.385 ug/l
 RT: 8.588 min Scan# 1127
 Delta R.T. 0.006 min
 Lab File: VN077747.D
 Acq: 18 May 2023 19:27

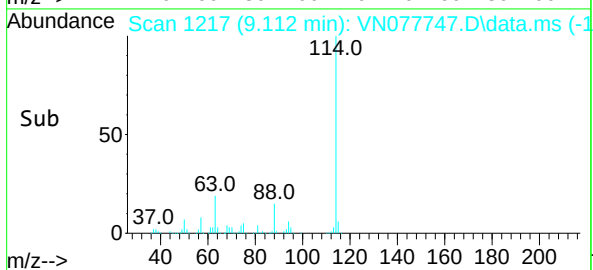
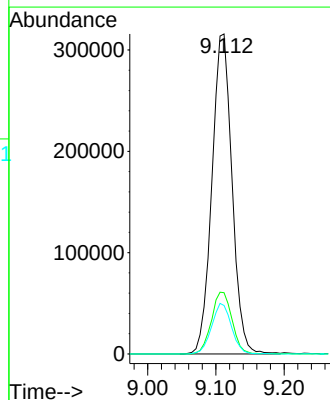
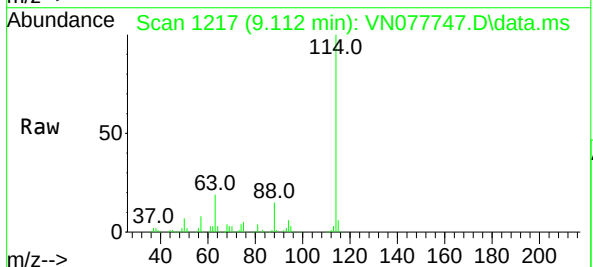
Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D1-20230517

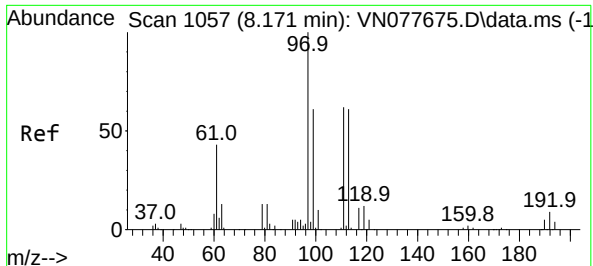
Tgt Ion: 65 Resp: 242882
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.112 min Scan# 1217
 Delta R.T. 0.006 min
 Lab File: VN077747.D
 Acq: 18 May 2023 19:27

Tgt Ion: 114 Resp: 648642
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 36.4
 88 15.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 48.490 ug/l

RT: 8.177 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN077747.D

Acq: 18 May 2023 19:27

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20230517

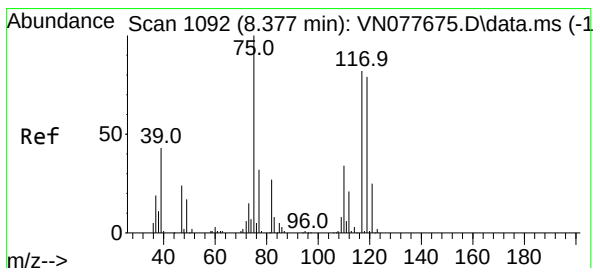
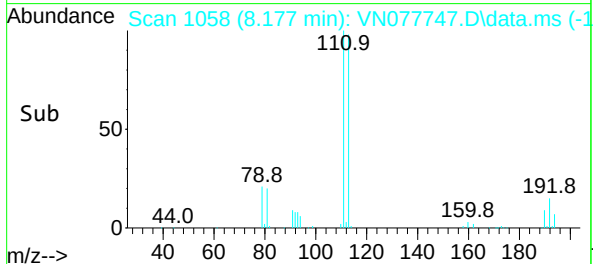
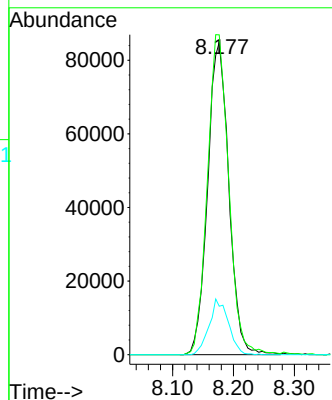
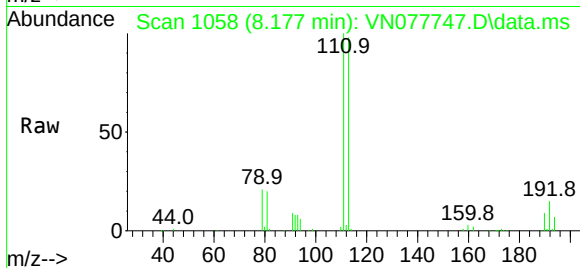
Tgt Ion:113 Resp: 205098

Ion Ratio Lower Upper

113 100

111 103.3 82.6 123.8

192 16.3 12.7 19.1



#36

1,1-Dichloropropene

Concen: 5.209 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN077747.D

Acq: 18 May 2023 19:27

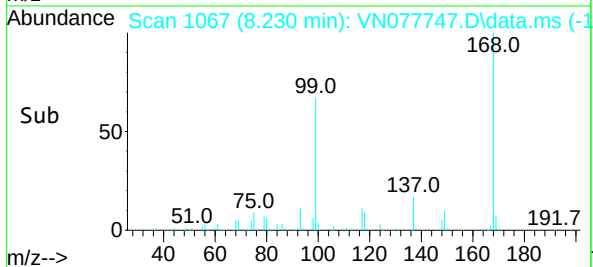
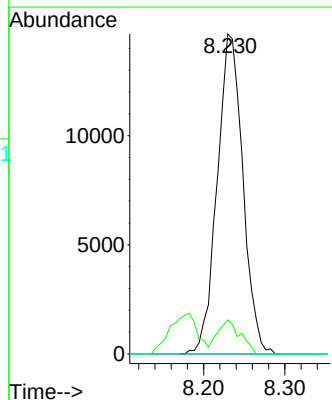
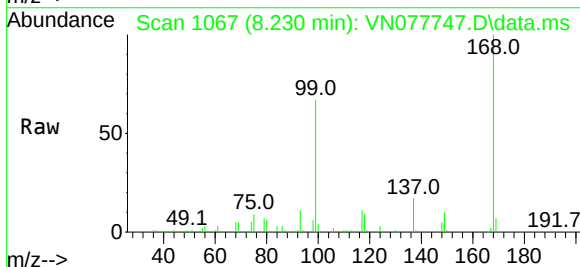
Tgt Ion: 75 Resp: 32228

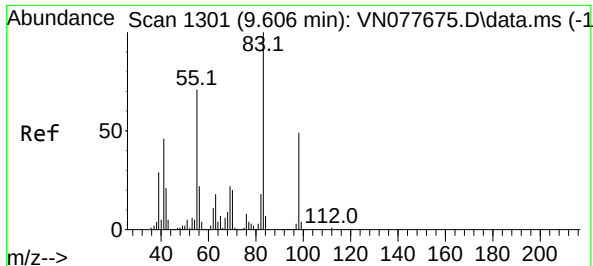
Ion Ratio Lower Upper

75 100

110 9.4 19.1 57.3#

77 0.0 25.0 37.4#





#39

Methylcyclohexane

Concen: 1.464 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. -0.247 min

Lab File: VN077747.D

Acq: 18 May 2023 19:27

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20230517

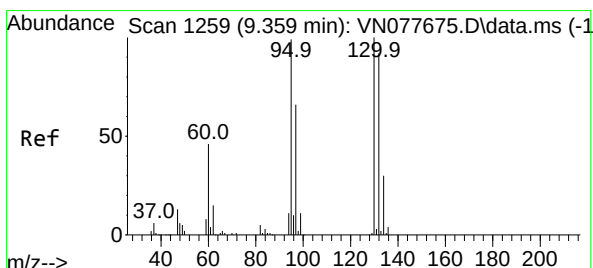
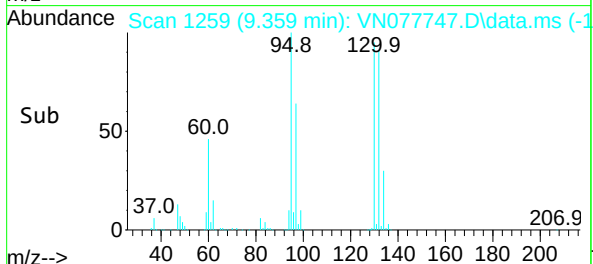
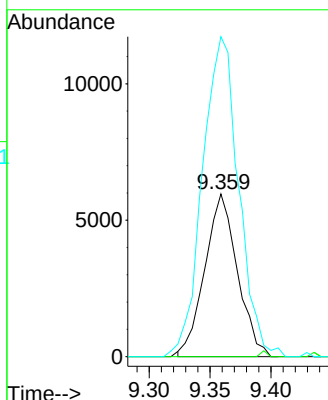
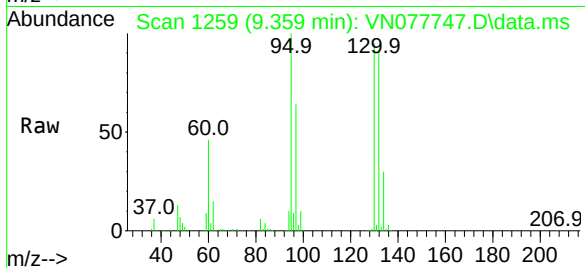
Tgt Ion: 83 Resp: 11087

Ion Ratio Lower Upper

83 100

55 0.0 49.1 73.7#

98 197.8 40.6 61.0#



#44

Trichloroethene

Concen: 189.213 ug/l

RT: 9.359 min Scan# 1259

Delta R.T. -0.000 min

Lab File: VN077747.D

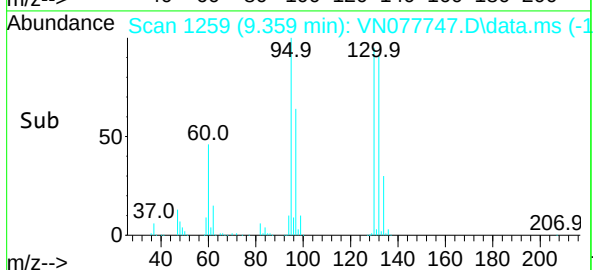
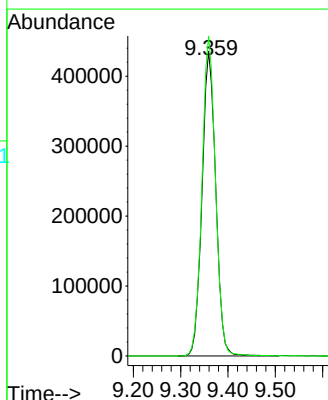
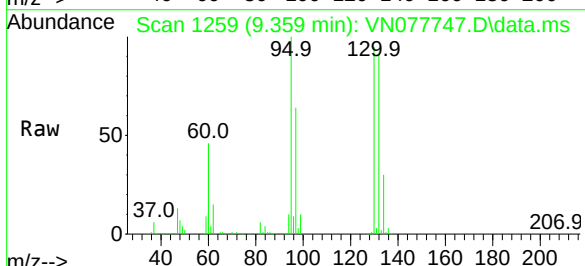
Acq: 18 May 2023 19:27

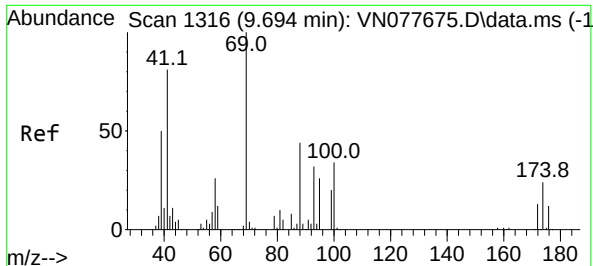
Tgt Ion:130 Resp: 874677

Ion Ratio Lower Upper

130 100

95 105.0 0.0 204.6





#49

1,4-Dioxane

Concen: 18.474 ug/l

RT: 9.706 min Scan# 11

Delta R.T. 0.012 min

Lab File: VN077747.D

Acq: 18 May 2023 19:27

Instrument :

MSVOA_N

ClientSampleId :

RE125D1-20230517

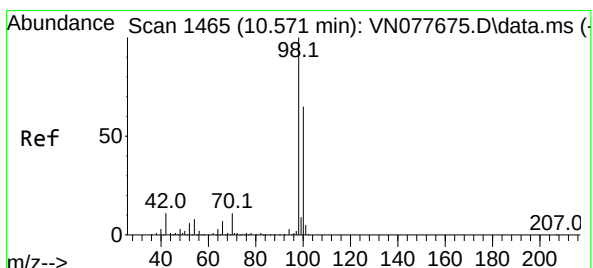
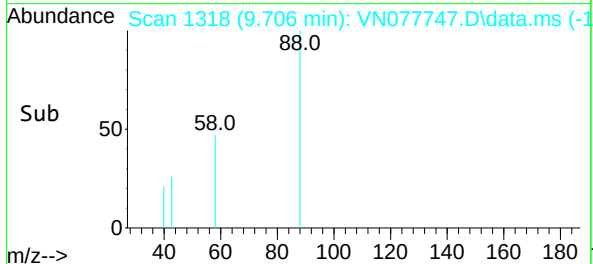
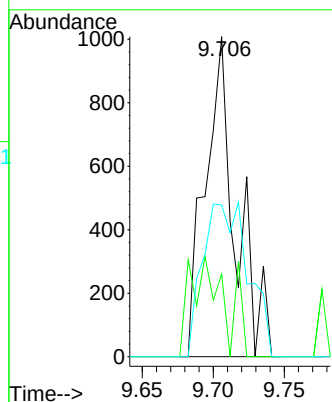
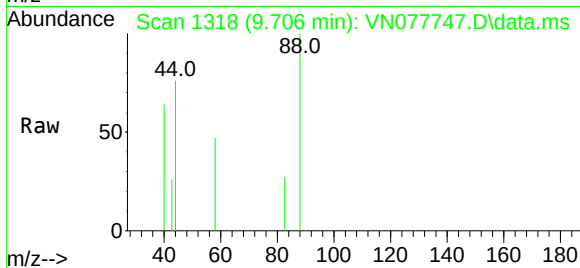
Tgt Ion: 88 Resp: 1490

Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 72.6 47.0 70.4#



#50

Toluene-d8

Concen: 49.842 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. 0.005 min

Lab File: VN077747.D

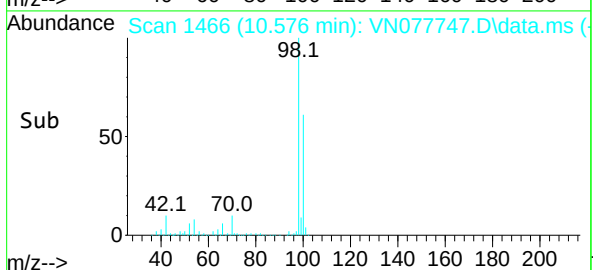
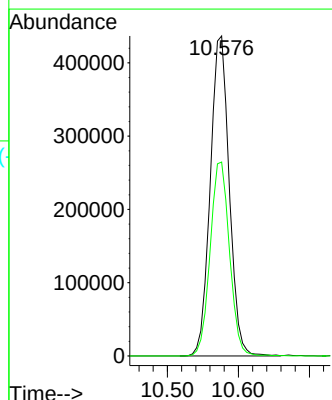
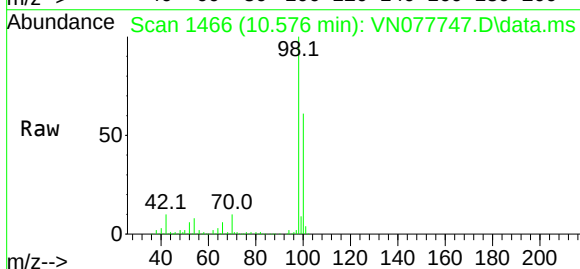
Acq: 18 May 2023 19:27

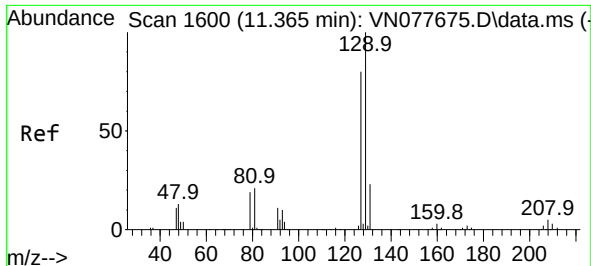
Tgt Ion: 98 Resp: 811460

Ion Ratio Lower Upper

98 100

100 61.8 52.0 78.0

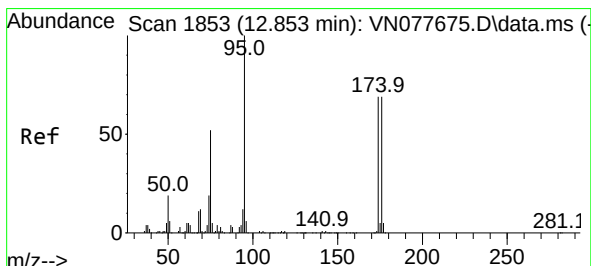
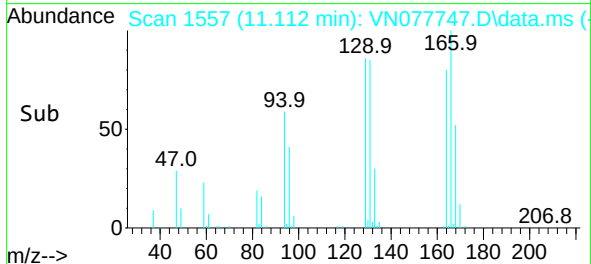
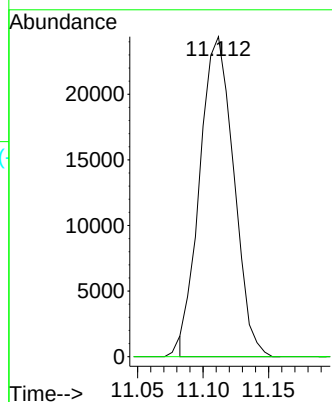
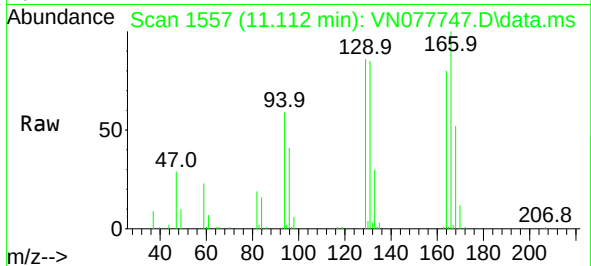




#60
Dibromochloromethane
Concen: 9.410 ug/l
RT: 11.112 min Scan# 11
Delta R.T. -0.253 min
Lab File: VN077747.D
Acq: 18 May 2023 19:27

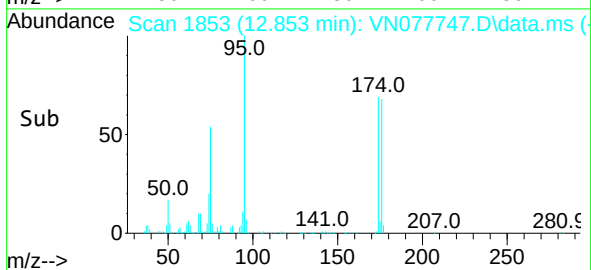
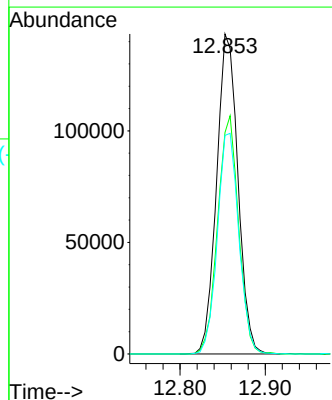
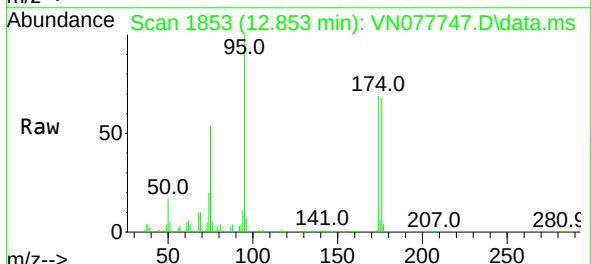
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20230517

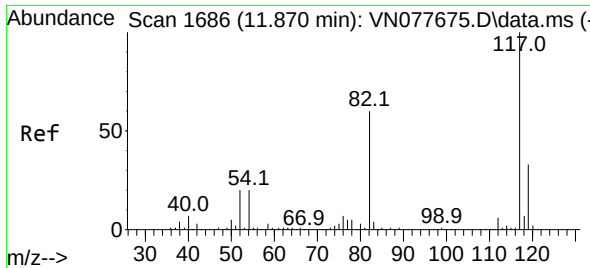
Tgt Ion:129 Resp: 43838
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#



#62
4-Bromofluorobenzene
Concen: 43.395 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077747.D
Acq: 18 May 2023 19:27

Tgt Ion: 95 Resp: 249518
Ion Ratio Lower Upper
95 100
174 73.1 0.0 143.8
176 69.2 0.0 135.8

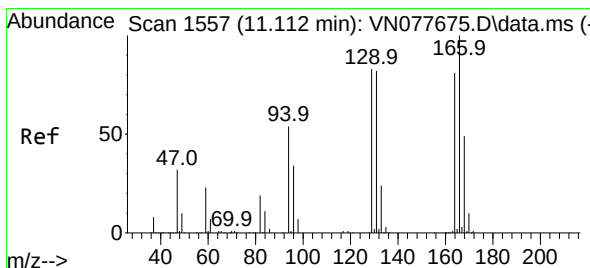
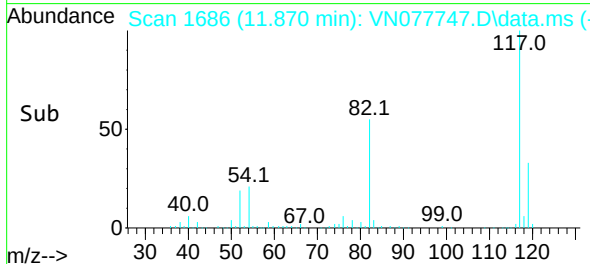
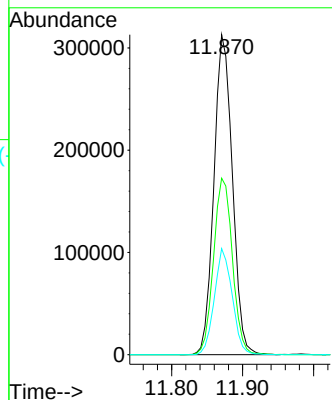
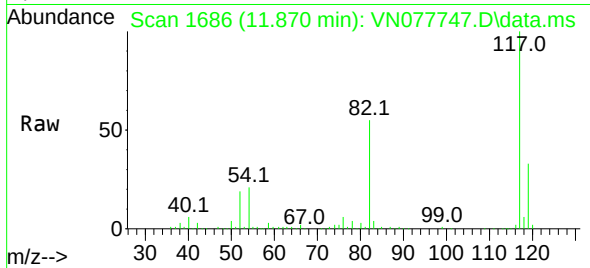




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN077747.D
Acq: 18 May 2023 19:27

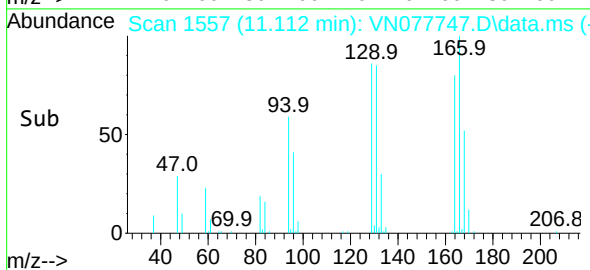
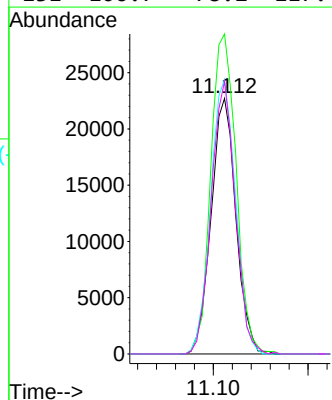
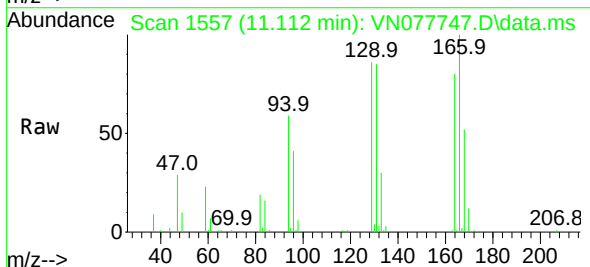
Instrument :
MSVOA_N
ClientSampleId :
RE125D1-20230517

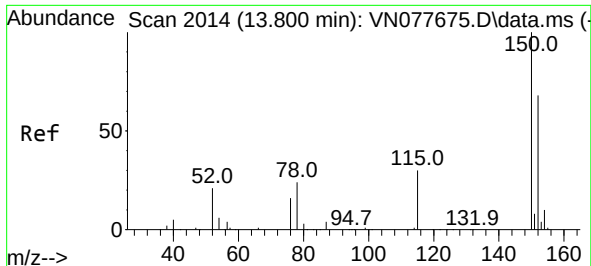
Tgt Ion:117 Resp: 564819
Ion Ratio Lower Upper
117 100
82 55.1 44.0 66.0
119 33.2 25.6 38.4



#64
Tetrachloroethene
Concen: 10.442 ug/l
RT: 11.112 min Scan# 1557
Delta R.T. -0.000 min
Lab File: VN077747.D
Acq: 18 May 2023 19:27

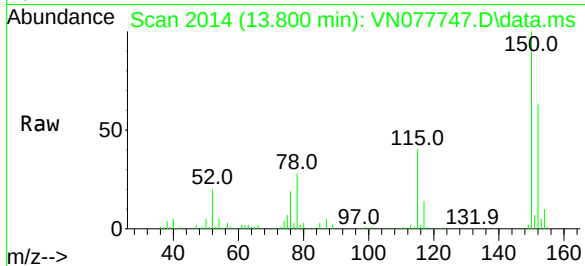
Tgt Ion:164 Resp: 41244
Ion Ratio Lower Upper
164 100
166 125.2 101.4 152.0
129 107.4 82.4 123.6
131 106.7 78.2 117.4



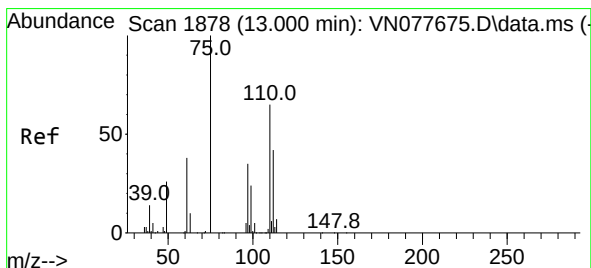
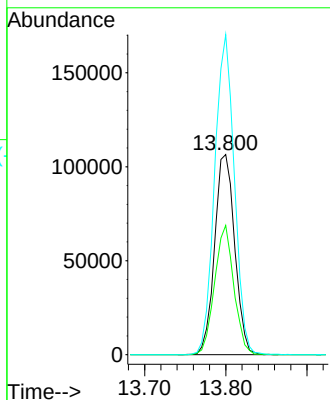
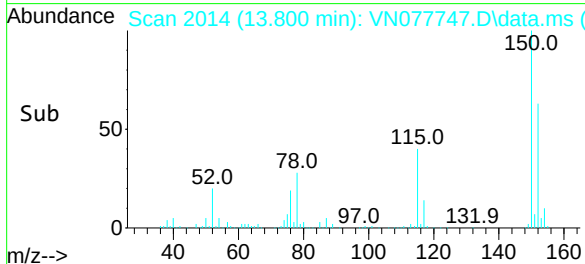


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.800 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN077747.D
 Acq: 18 May 2023 19:27

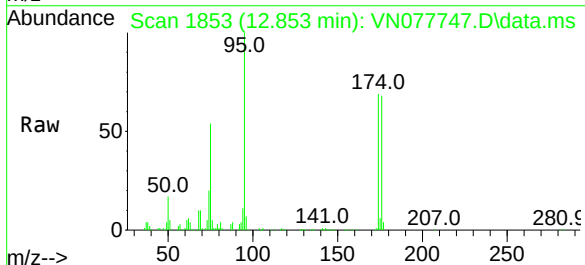
Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D1-20230517



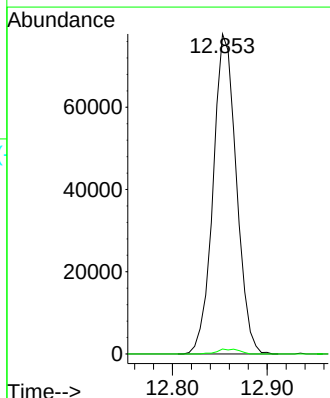
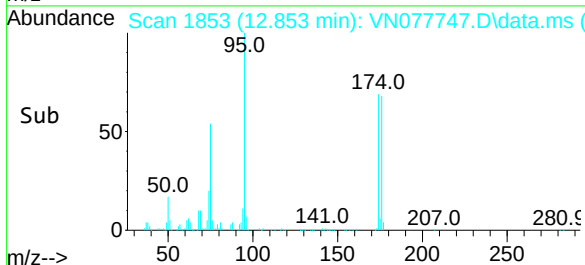
Tgt Ion:152 Resp: 183601
 Ion Ratio Lower Upper
 152 100
 115 61.9 32.3 96.8
 150 156.6 0.0 355.8

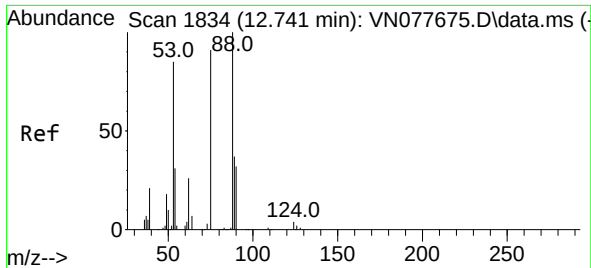


#76
 1,2,3-Trichloropropane
 Concen: 28.885 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.147 min
 Lab File: VN077747.D
 Acq: 18 May 2023 19:27



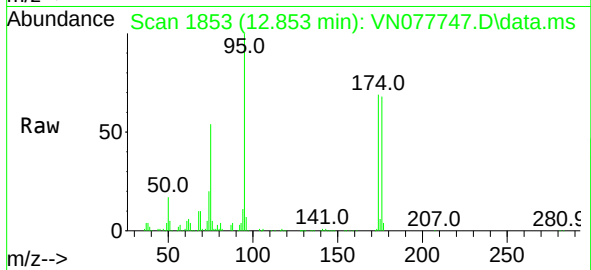
Tgt Ion: 75 Resp: 132816
 Ion Ratio Lower Upper
 75 100
 77 1.5 84.5 253.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 92.333 ug/l
 RT: 12.853 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN077747.D
 Acq: 18 May 2023 19:27

Instrument :
 MSVOA_N
 ClientSampleId :
 RE125D1-20230517



Tgt Ion: 75 Resp: 132816
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.0 38.8 58.2#

