

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051122\
 Data File : VN072410.D
 Acq On : 11 May 2022 12:27
 Operator : JC\MD
 Sample : N2770-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MH-15842RE

Quant Time: May 12 02:10:53 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051022W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 10 15:43:28 2022
 Response via : Initial Calibration

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

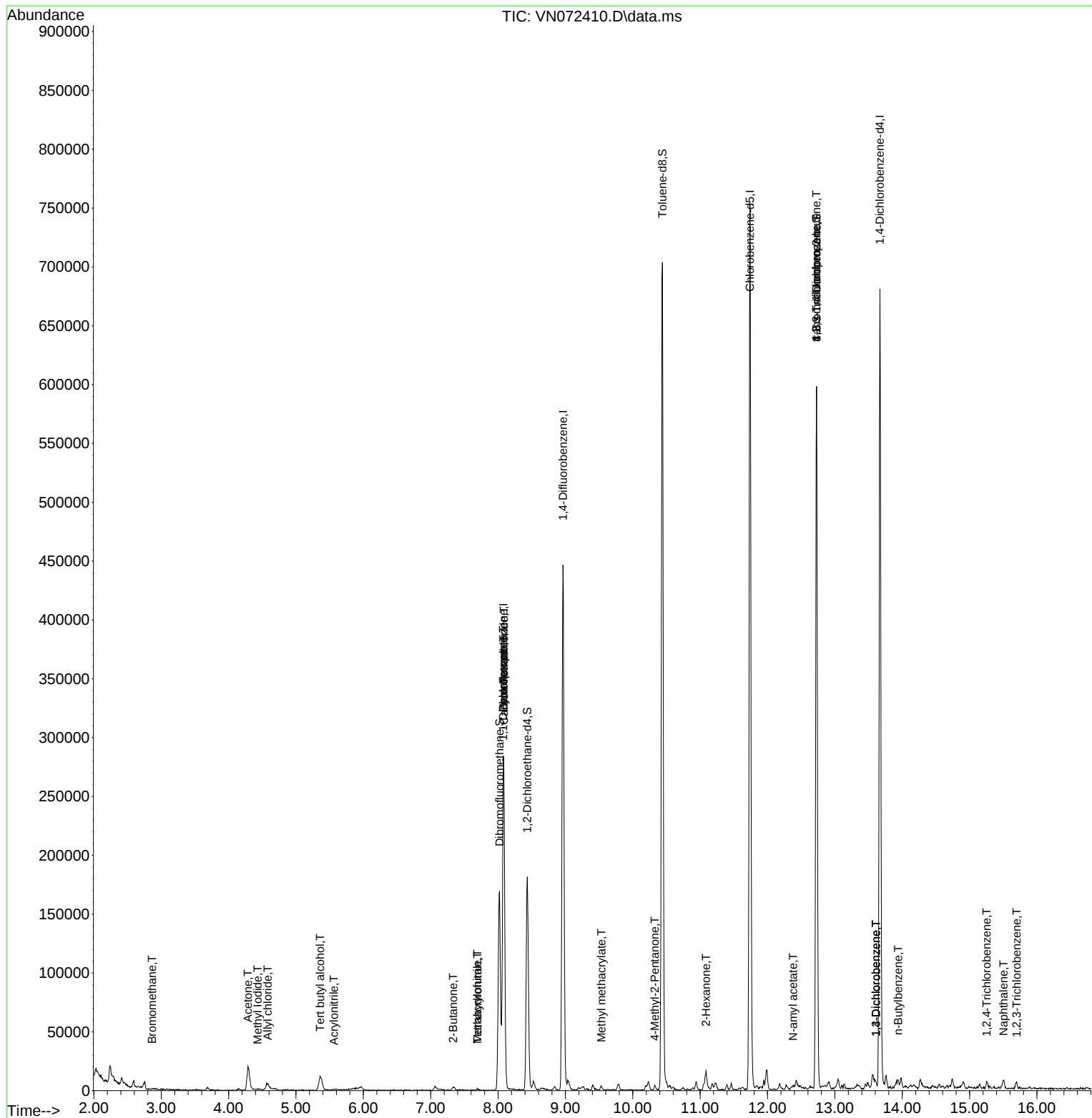
Internal Standards						
1) Pentafluorobenzene	8.081	168	211913	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.963	114	381264	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.739	117	435995	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.669	152	181636	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.434	65	160763	49.529	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	99.060%		
35) Dibromofluoromethane	8.022	113	122513	48.299	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	96.600%		
50) Toluene-d8	10.439	98	494120	51.149	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	102.300%		
62) 4-Bromofluorobenzene	12.727	95	205606	64.086	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	128.180%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.305	50	738	Below Cal	#	43
5) Bromomethane	2.863	94	503	0.375	ug/l #	70
6) Chloroethane	2.993	64	581	Below Cal	#	42
10) Methyl Iodide	4.434	142	985	0.326	ug/l #	68
11) Tert butyl alcohol	5.357	59	21576	40.653	ug/l #	88
14) Allyl chloride	4.581	41	1043	0.263	ug/l #	70
15) Acrylonitrile	5.563	53	450	0.312	ug/l #	38
16) Acetone	4.287	43	37775	29.387	ug/l	94
25) 2-Butanone	7.334	43	5380	2.652	ug/l #	86
29) Tetrahydrofuran	7.693	42	532	0.403	ug/l #	61
31) Cyclohexane	8.081	56	4759	1.107	ug/l #	46
36) 1,1-Dichloropropene	8.075	75	17510	4.806	ug/l #	50
38) Carbon Tetrachloride	8.087	117	23125	5.671	ug/l #	17
41) Methacrylonitrile	7.693	41	501	0.231	ug/l #	29
48) Methyl methacrylate	9.534	41	1130	0.361	ug/l #	37
51) 4-Methyl-2-Pentanone	10.328	43	2873	0.689	ug/l #	75
59) 2-Hexanone	11.086	43	8727	2.985	ug/l	62
74) N-amyl acetate	12.380	43	2961	0.557	ug/l #	72
76) 1,2,3-Trichloropropane	12.727	75	109964	23.212	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.727	75	109964	77.435	ug/l #	11
87) 1,3-Dichlorobenzene	13.610	146	1414	0.228	ug/l	86
88) 1,4-Dichlorobenzene	13.610	146	1414	0.229	ug/l	88
89) n-Butylbenzene	13.939	91	3820	0.446	ug/l	80
93) 1,2,4-Trichlorobenzene	15.251	180	2116	0.901	ug/l	95
95) Naphthalene	15.504	128	9054	4.153	ug/l	96
96) 1,2,3-Trichlorobenzene	15.698	180	2744	1.166	ug/l	80

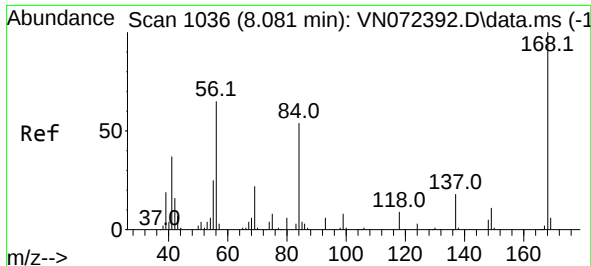
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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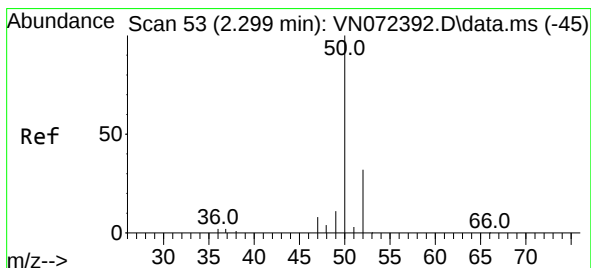
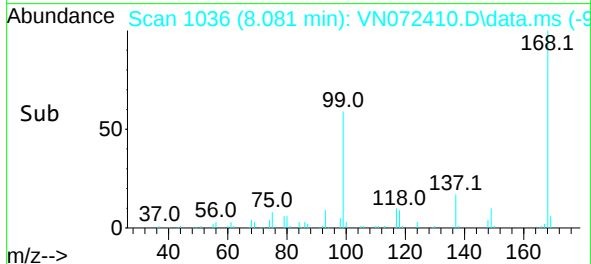
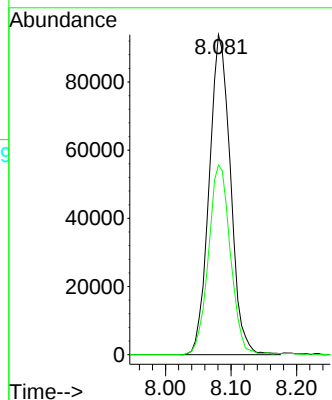
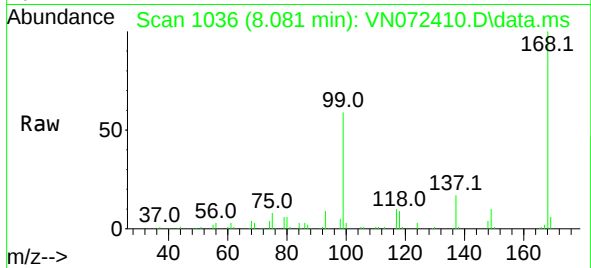




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.081 min Scan# 1036
Delta R.T. -0.000 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

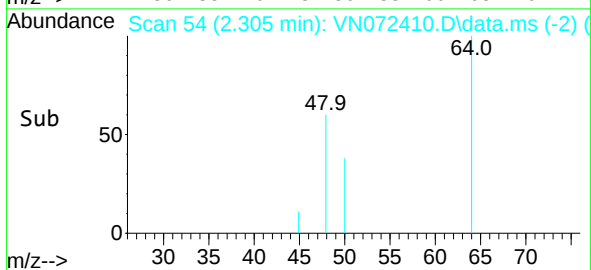
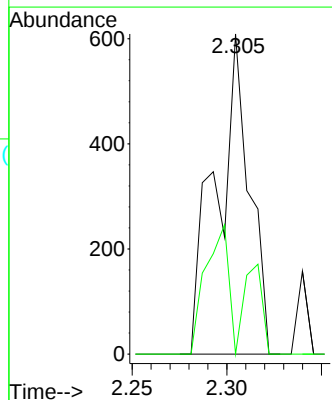
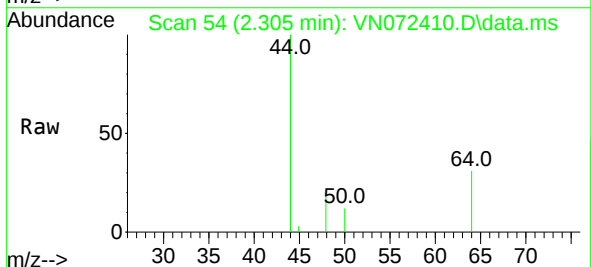
Instrument :
MSVOA_N
ClientSampleId :
MH-15842RE

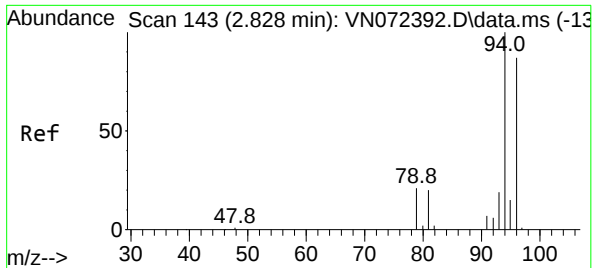
Tgt Ion:168 Resp: 211913
Ion Ratio Lower Upper
168 100
99 59.3 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.305 min Scan# 54
Delta R.T. 0.006 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

Tgt Ion: 50 Resp: 738
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#





#5

Bromomethane

Concen: 0.375 ug/l

RT: 2.863 min Scan# 14

Delta R.T. 0.035 min

Lab File: VN072410.D

Acq: 11 May 2022 12:27

Instrument :

MSVOA_N

ClientSampleId :

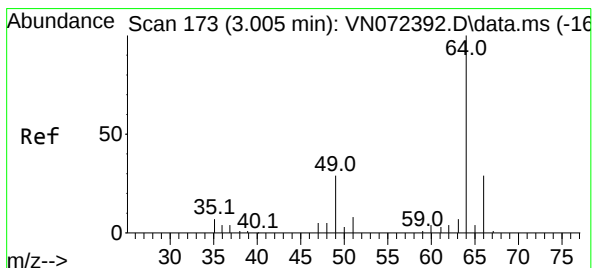
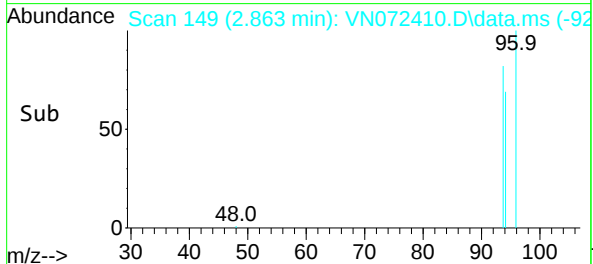
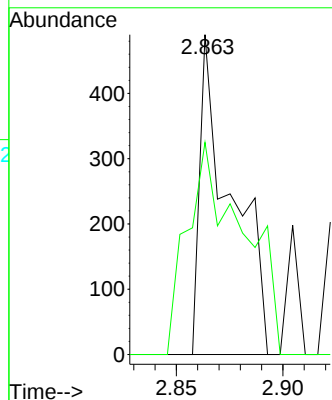
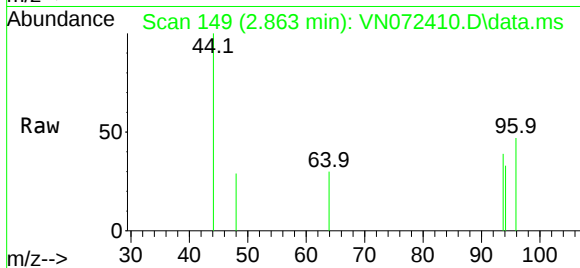
MH-15842RE

Tgt Ion: 94 Resp: 503

Ion Ratio Lower Upper

94 100

96 66.3 76.0 114.0#



#6

Chloroethane

Concen: Below Cal

RT: 2.993 min Scan# 171

Delta R.T. -0.012 min

Lab File: VN072410.D

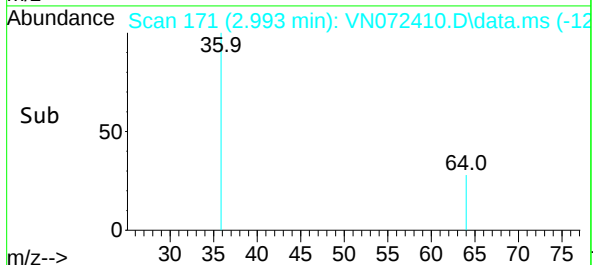
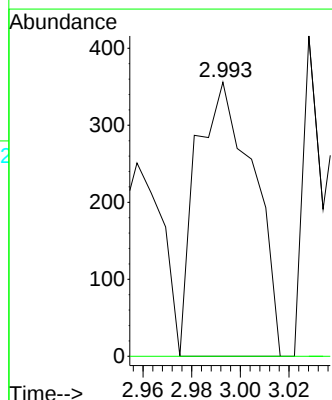
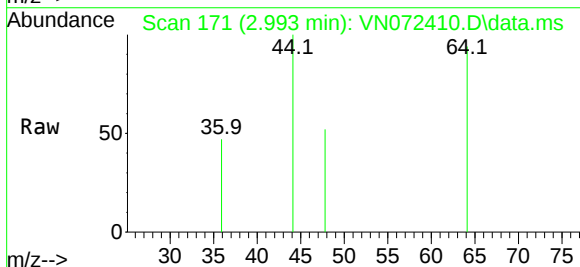
Acq: 11 May 2022 12:27

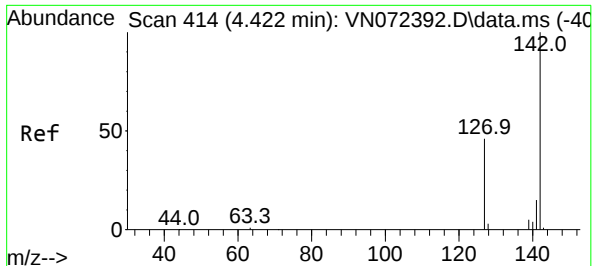
Tgt Ion: 64 Resp: 581

Ion Ratio Lower Upper

64 100

66 0.0 26.2 39.4#

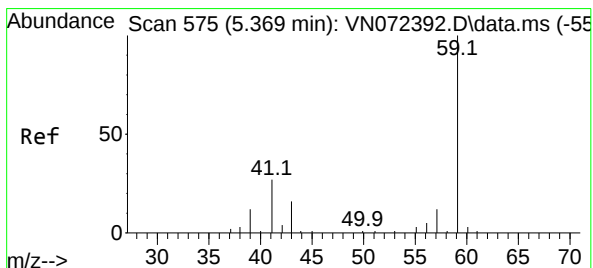
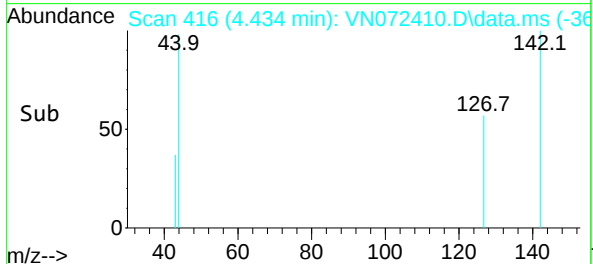
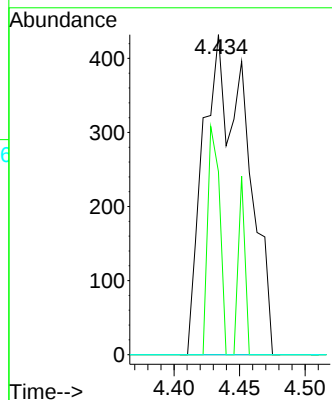
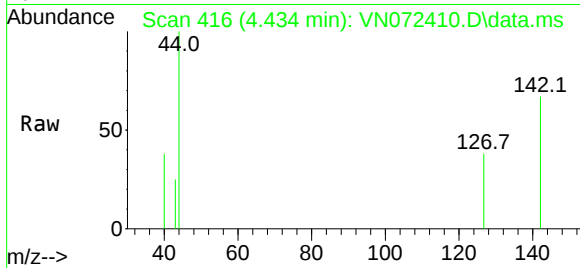




#10
Methyl Iodide
Concen: 0.326 ug/l
RT: 4.434 min Scan# 414
Delta R.T. 0.012 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

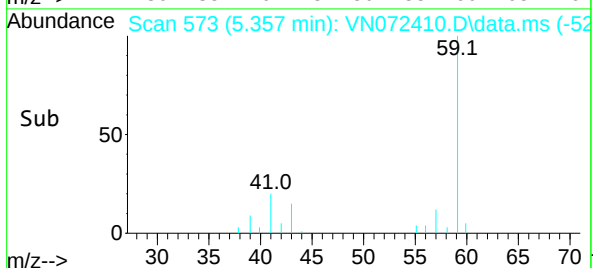
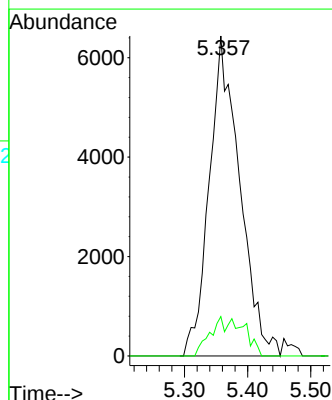
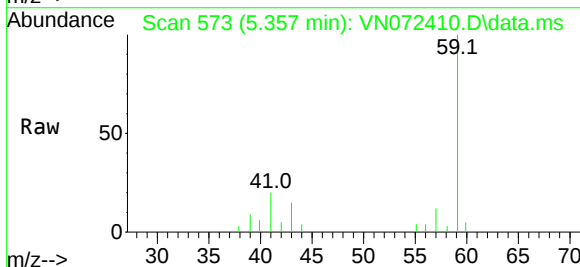
Instrument :
MSVOA_N
ClientSampleId :
MH-15842RE

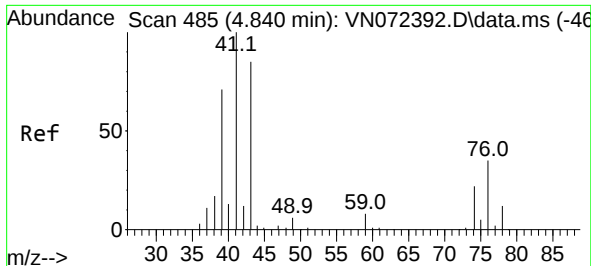
Tgt Ion:142 Resp: 985
Ion Ratio Lower Upper
142 100
127 19.9 31.3 46.9#
141 0.0 11.2 16.8#



#11
Tert butyl alcohol
Concen: 40.653 ug/l
RT: 5.357 min Scan# 573
Delta R.T. -0.012 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

Tgt Ion: 59 Resp: 21576
Ion Ratio Lower Upper
59 100
57 6.0 8.3 12.5#

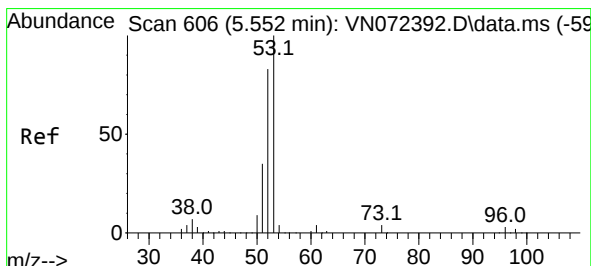
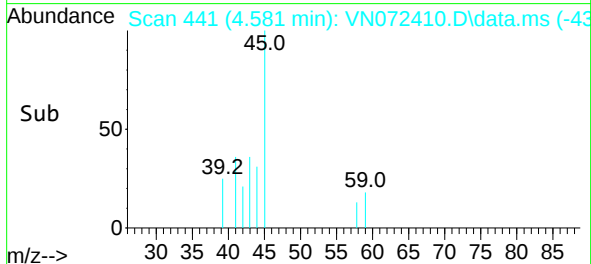
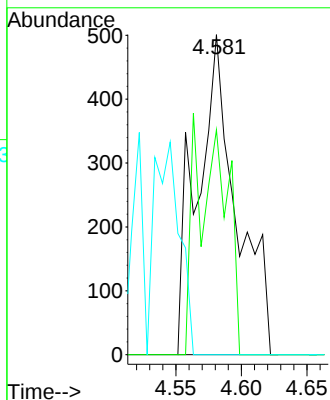
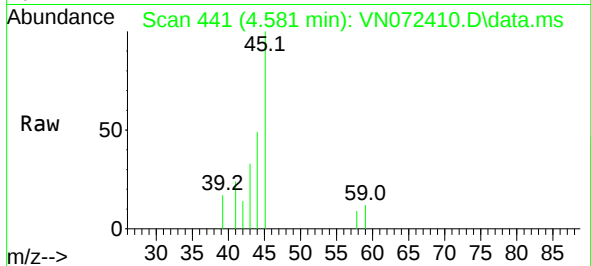




#14
 Allyl chloride
 Concen: 0.263 ug/l
 RT: 4.581 min Scan# 441
 Delta R.T. -0.259 min
 Lab File: VN072410.D
 Acq: 11 May 2022 12:27

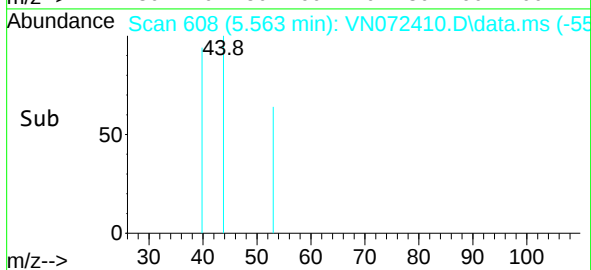
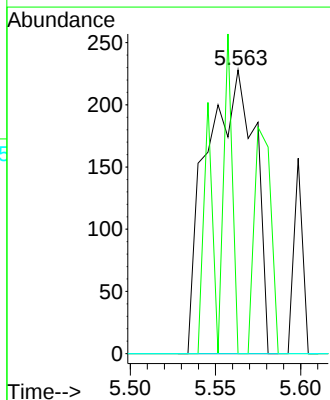
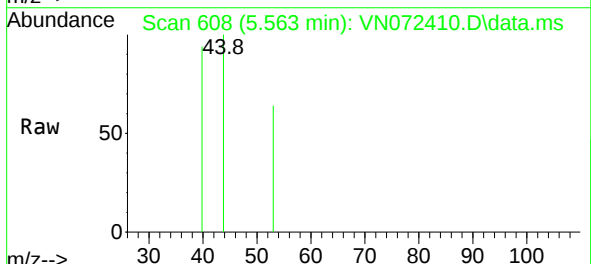
Instrument :
 MSVOA_N
 ClientSampleId :
 MH-15842RE

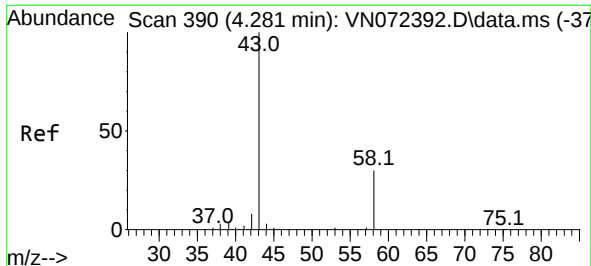
Tgt Ion:	41	Resp:	1043
Ion	Ratio	Lower	Upper
41	100		
39	57.0	53.2	79.8
76	0.0	29.9	44.9#



#15
 Acrylonitrile
 Concen: 0.312 ug/l
 RT: 5.563 min Scan# 608
 Delta R.T. 0.011 min
 Lab File: VN072410.D
 Acq: 11 May 2022 12:27

Tgt Ion:	53	Resp:	450
Ion	Ratio	Lower	Upper
53	100		
52	27.3	66.4	99.6#
51	0.0	28.5	42.7#

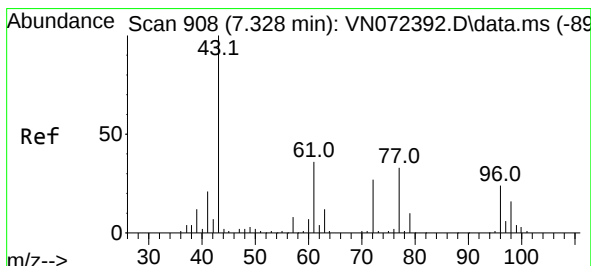
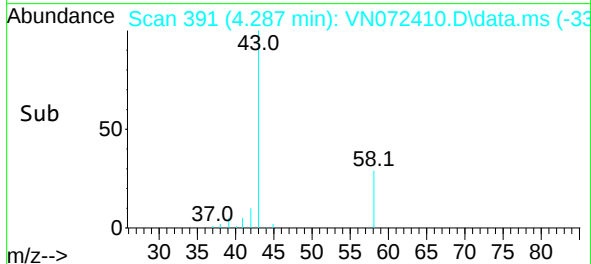
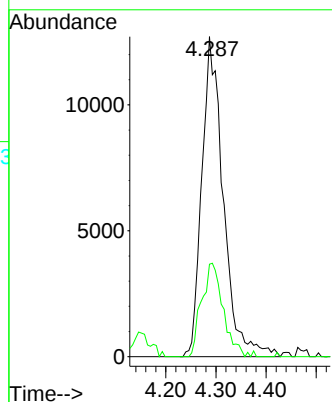
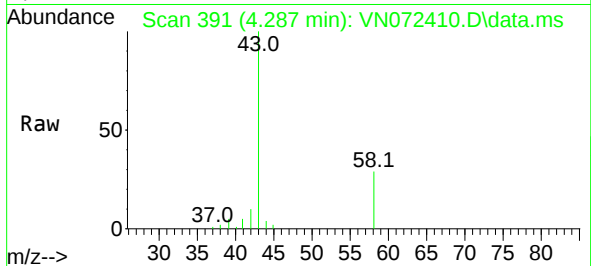




#16
Acetone
Concen: 29.387 ug/l
RT: 4.287 min Scan# 391
Delta R.T. 0.006 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

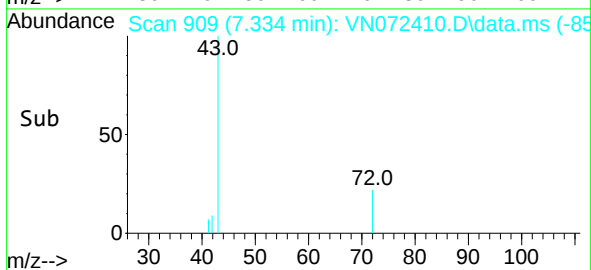
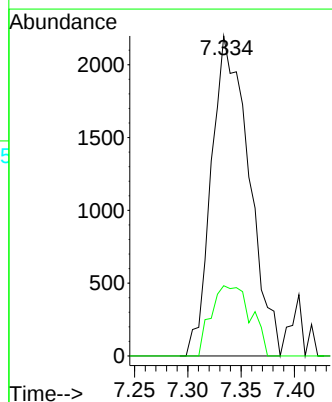
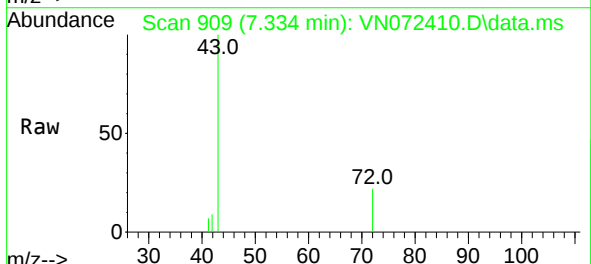
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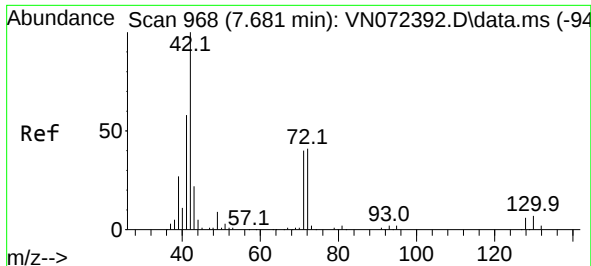
Tgt Ion: 43 Resp: 37775
Ion Ratio Lower Upper
43 100
58 28.9 26.0 39.0



#25
2-Butanone
Concen: 2.652 ug/l
RT: 7.334 min Scan# 909
Delta R.T. 0.006 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

Tgt Ion: 43 Resp: 5380
Ion Ratio Lower Upper
43 100
72 21.9 23.7 35.5#





#29

Tetrahydrofuran

Concen: 0.403 ug/l

RT: 7.693 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN072410.D

Acq: 11 May 2022 12:27

Instrument :

MSVOA_N

ClientSampleId :

MH-15842RE

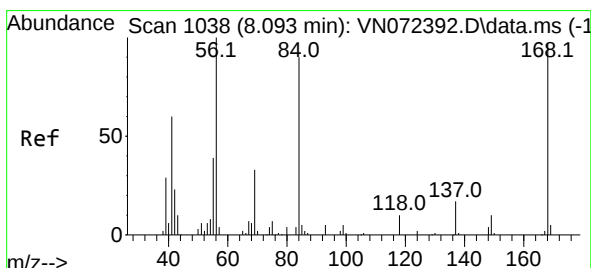
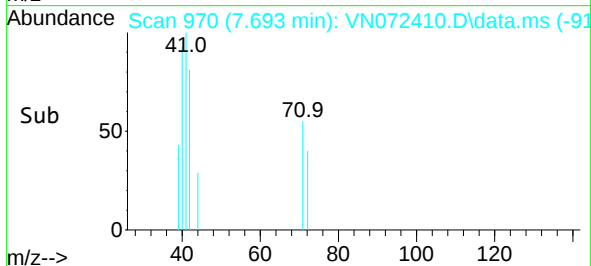
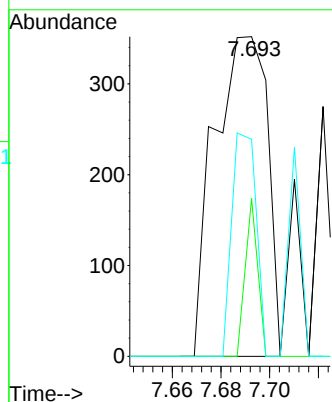
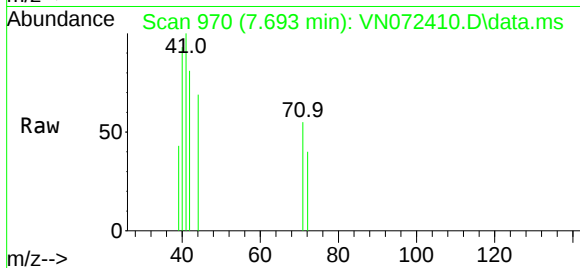
Tgt Ion: 42 Resp: 532

Ion Ratio Lower Upper

42 100

72 11.5 39.7 59.5#

71 32.1 36.6 55.0#



#31

Cyclohexane

Concen: 1.107 ug/l

RT: 8.081 min Scan# 1036

Delta R.T. -0.012 min

Lab File: VN072410.D

Acq: 11 May 2022 12:27

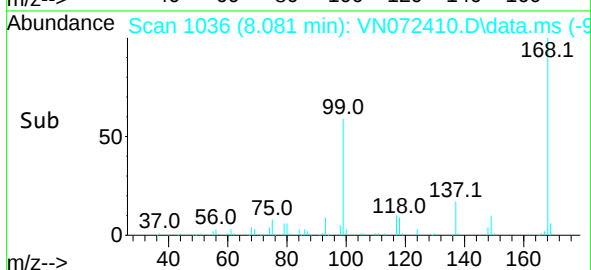
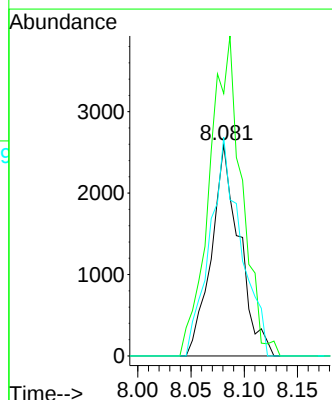
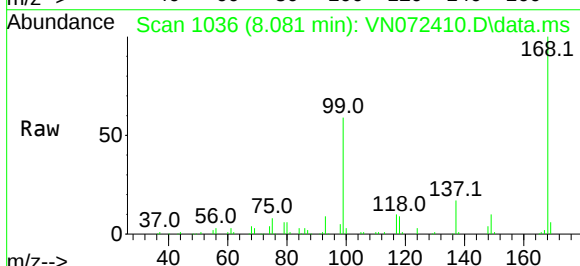
Tgt Ion: 56 Resp: 4759

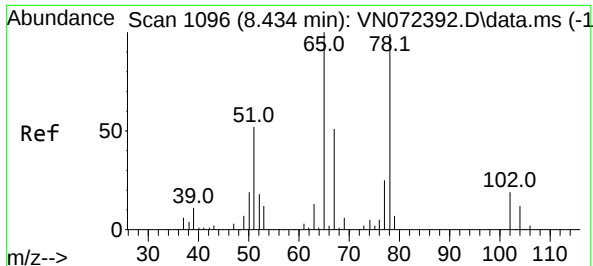
Ion Ratio Lower Upper

56 100

69 124.3 27.8 41.8#

84 113.9 76.9 115.3





#33

1,2-Dichloroethane-d4

Concen: 49.529 ug/l

RT: 8.434 min Scan# 1096

Delta R.T. -0.000 min

Lab File: VN072410.D

Acq: 11 May 2022 12:27

Instrument :

MSVOA_N

ClientSampleId :

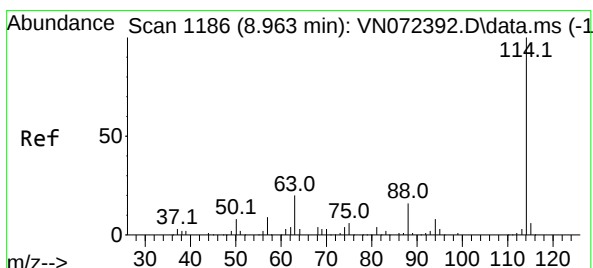
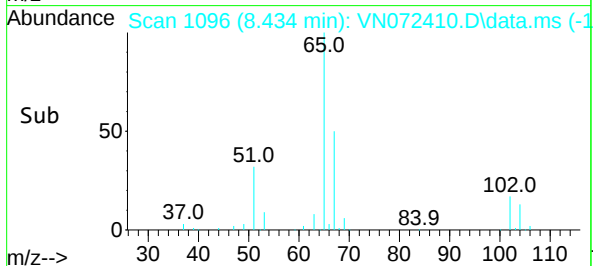
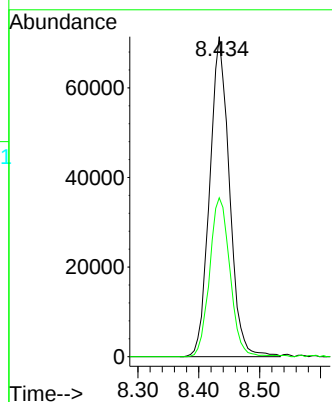
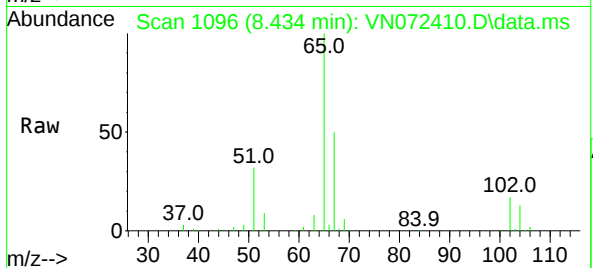
MH-15842RE

Tgt Ion: 65 Resp: 160763

Ion Ratio Lower Upper

65 100

67 51.1 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.963 min Scan# 1186

Delta R.T. 0.000 min

Lab File: VN072410.D

Acq: 11 May 2022 12:27

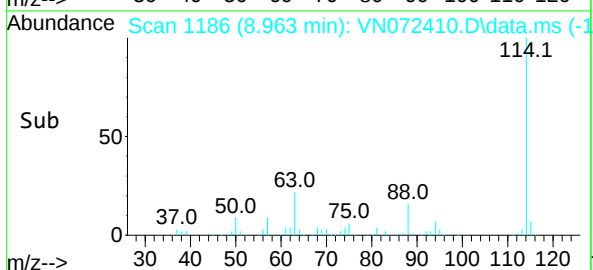
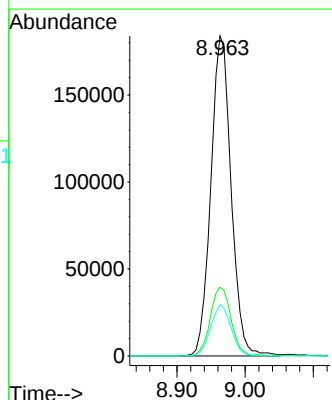
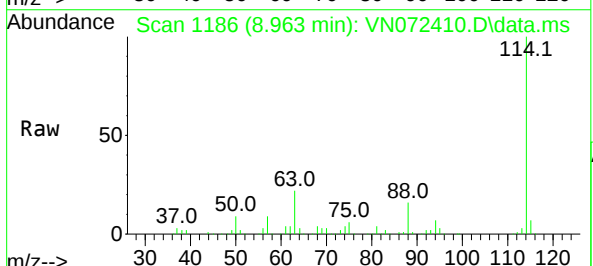
Tgt Ion: 114 Resp: 381264

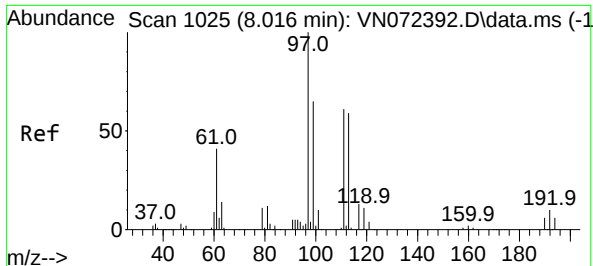
Ion Ratio Lower Upper

114 100

63 21.5 0.0 40.0

88 16.0 0.0 32.6

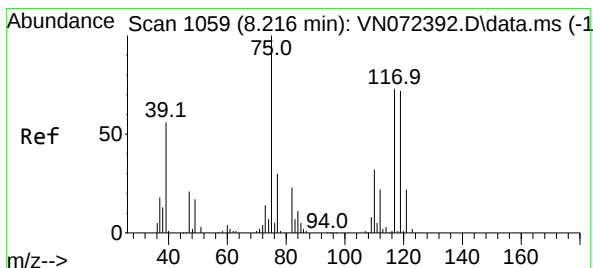
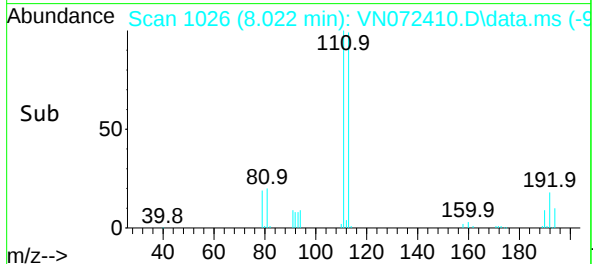
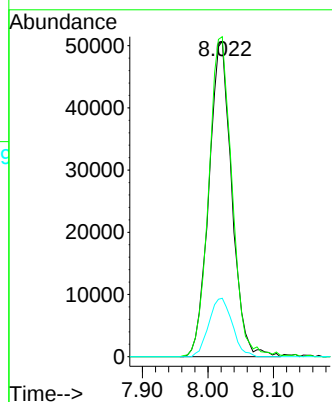
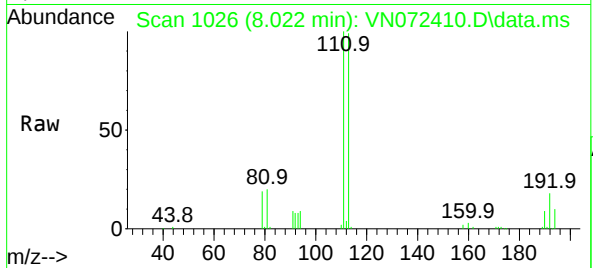




#35
Dibromofluoromethane
Concen: 48.299 ug/l
RT: 8.022 min Scan# 1026
Delta R.T. 0.006 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

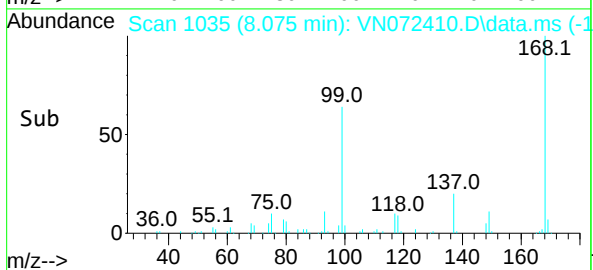
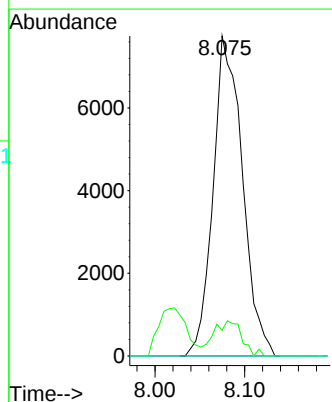
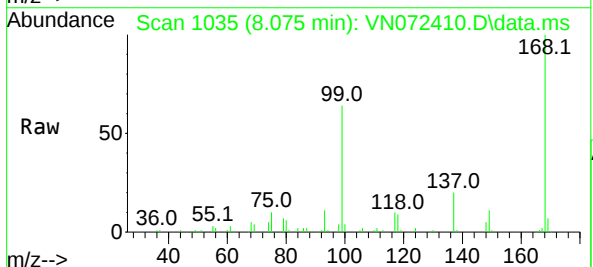
Instrument :
MSVOA_N
ClientSampleId :
MH-15842RE

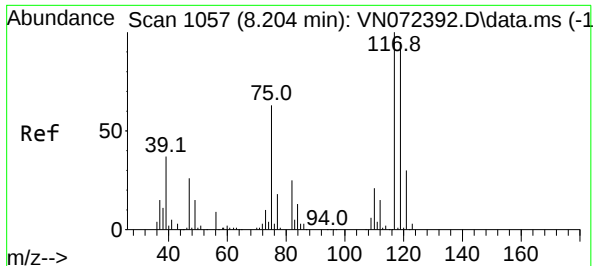
Tgt Ion:113 Resp: 122513
Ion Ratio Lower Upper
113 100
111 103.3 81.4 122.0
192 19.0 17.0 25.6



#36
1,1-Dichloropropene
Concen: 4.806 ug/l
RT: 8.075 min Scan# 1035
Delta R.T. -0.141 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

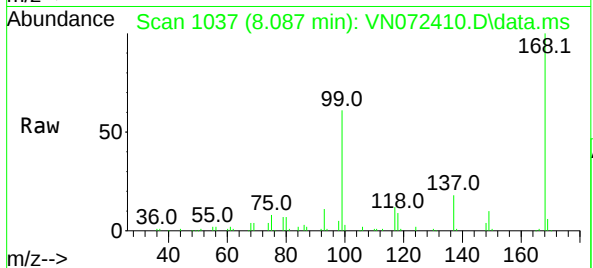
Tgt Ion: 75 Resp: 17510
Ion Ratio Lower Upper
75 100
110 10.6 18.3 54.8#
77 0.0 25.1 37.7#



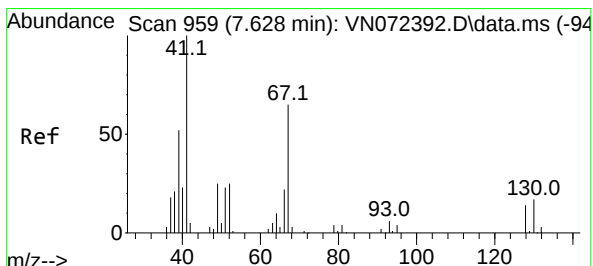
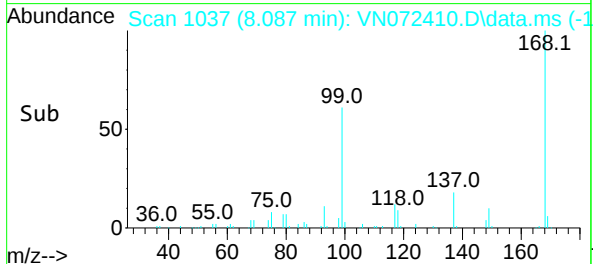
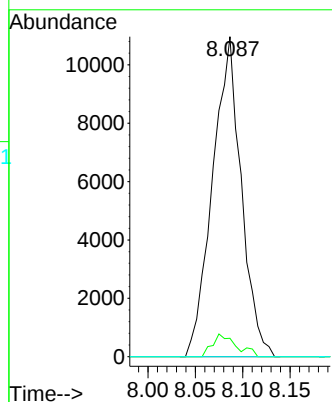


#38
Carbon Tetrachloride
Concen: 5.671 ug/l
RT: 8.087 min Scan# 1057
Delta R.T. -0.117 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

Instrument :
MSVOA_N
ClientSampleId :
MH-15842RE

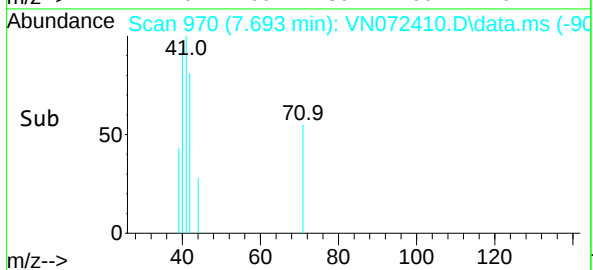
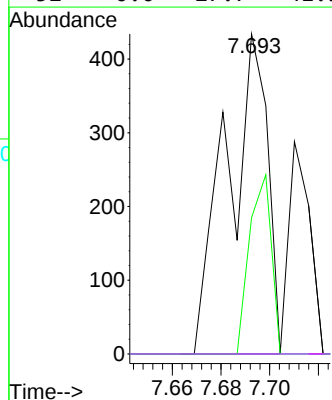
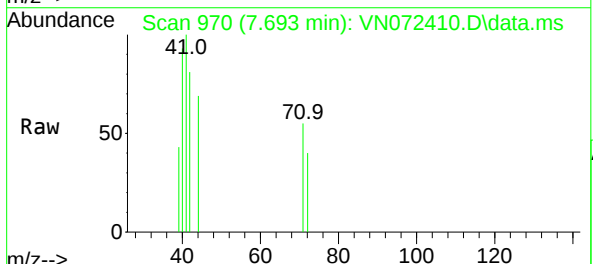


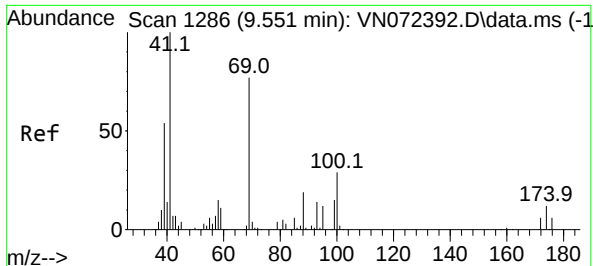
Tgt Ion:117 Resp: 23125
Ion Ratio Lower Upper
117 100
119 5.7 75.8 113.8#
121 0.0 24.6 37.0#



#41
Methacrylonitrile
Concen: 0.231 ug/l
RT: 7.693 min Scan# 970
Delta R.T. 0.065 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

Tgt Ion: 41 Resp: 501
Ion Ratio Lower Upper
41 100
39 30.1 48.6 73.0#
67 0.0 73.4 110.2#
52 0.0 27.7 41.5#

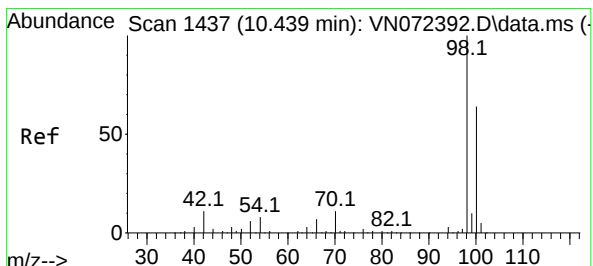
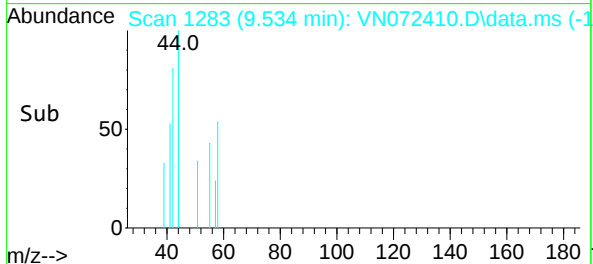
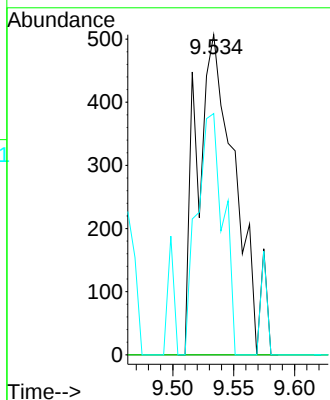
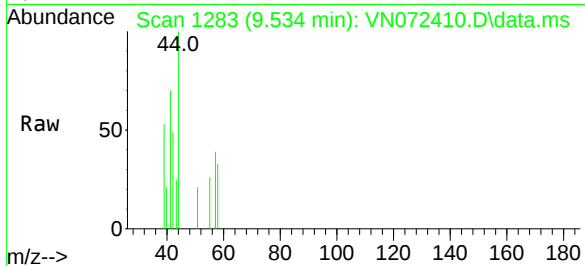




#48
Methyl methacrylate
Concen: 0.361 ug/l
RT: 9.534 min Scan# 11
Delta R.T. -0.017 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

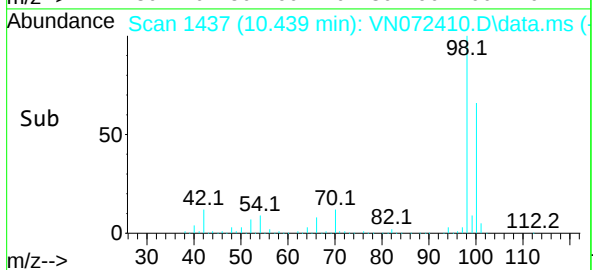
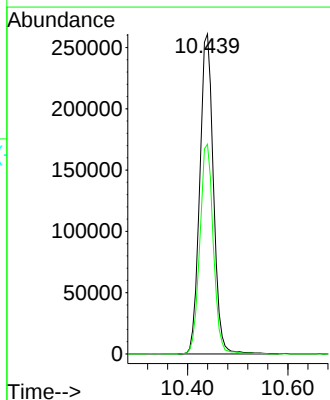
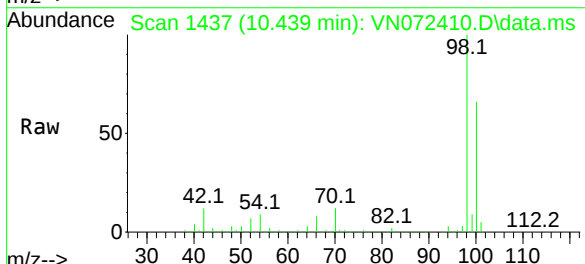
Instrument :
MSVOA_N
ClientSampleId :
MH-15842RE

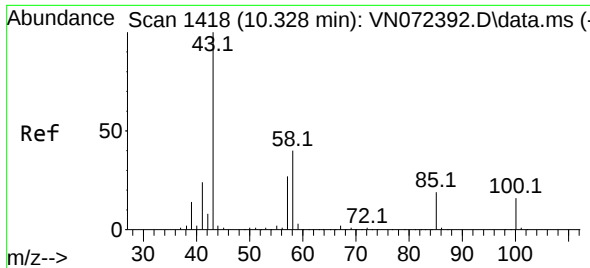
Tgt Ion: 41 Resp: 1130
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 51.2 45.6 68.4



#50
Toluene-d8
Concen: 51.149 ug/l
RT: 10.439 min Scan# 1437
Delta R.T. 0.000 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

Tgt Ion: 98 Resp: 494120
Ion Ratio Lower Upper
98 100
100 64.6 52.6 78.8

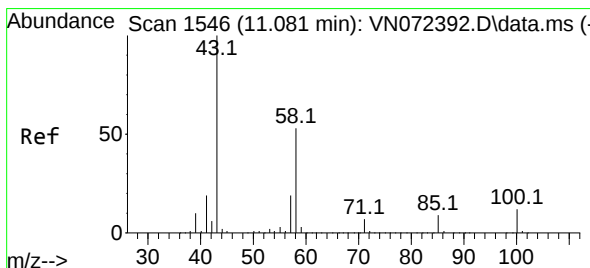
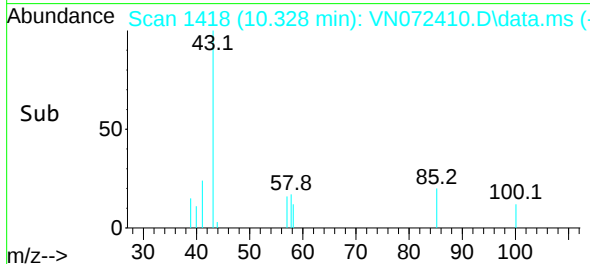
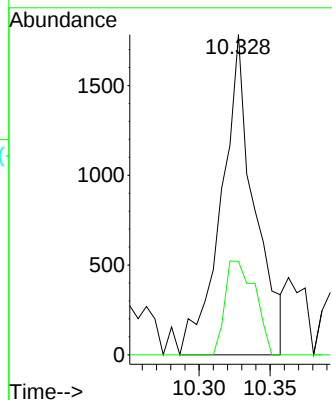
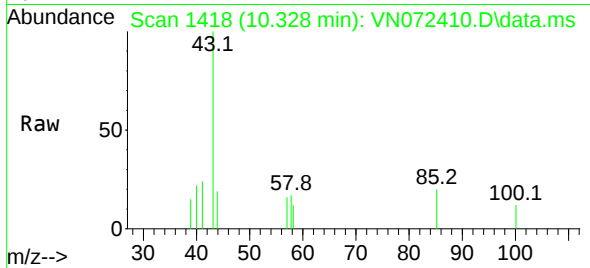




#51
4-Methyl-2-Pentanone
Concen: 0.689 ug/l
RT: 10.328 min Scan# 1418
Delta R.T. -0.000 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

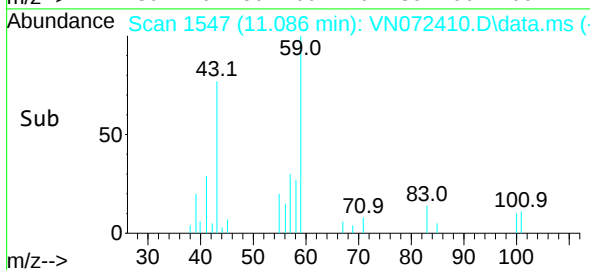
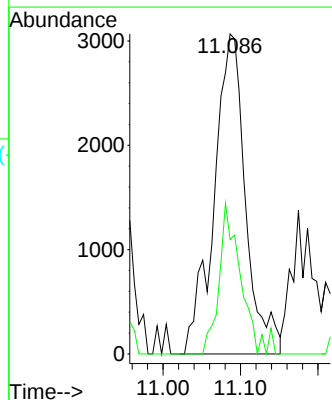
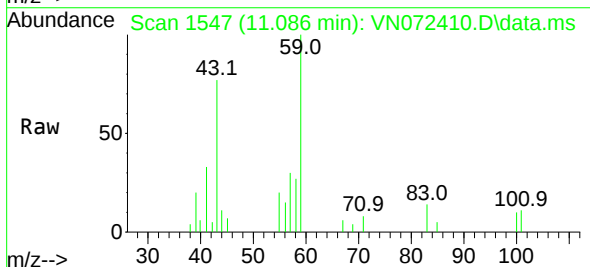
Instrument :
MSVOA_N
ClientSampleId :
MH-15842RE

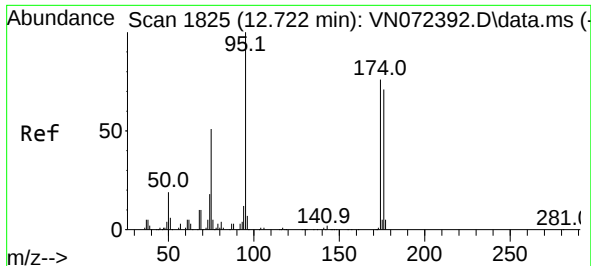
Tgt Ion: 43 Resp: 2873
Ion Ratio Lower Upper
43 100
58 26.7 34.1 51.1#



#59
2-Hexanone
Concen: 2.985 ug/l
RT: 11.086 min Scan# 1547
Delta R.T. 0.005 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

Tgt Ion: 43 Resp: 8727
Ion Ratio Lower Upper
43 100
58 30.5 29.7 89.1

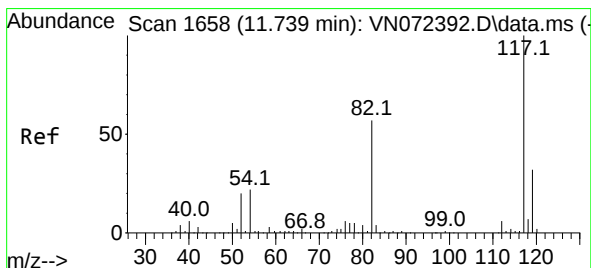
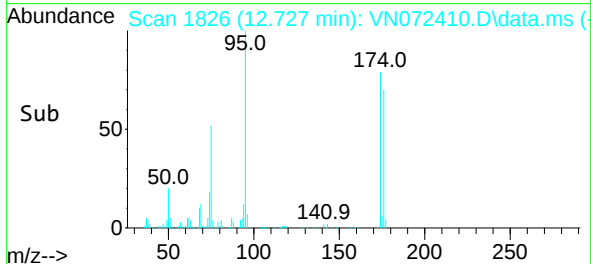
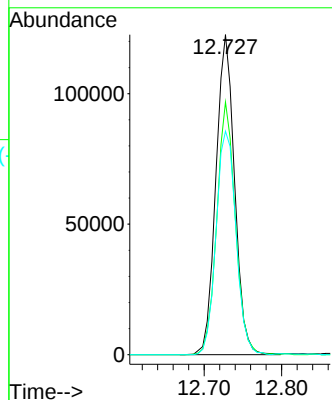
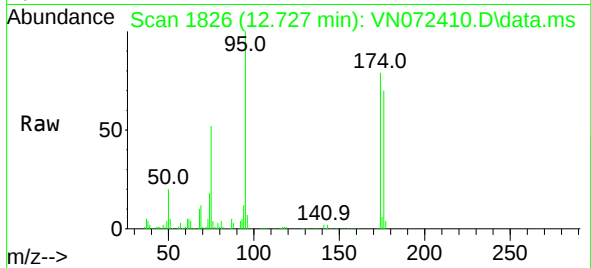




#62
4-Bromofluorobenzene
Concen: 64.086 ug/l
RT: 12.727 min Scan# 1825
Delta R.T. 0.005 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

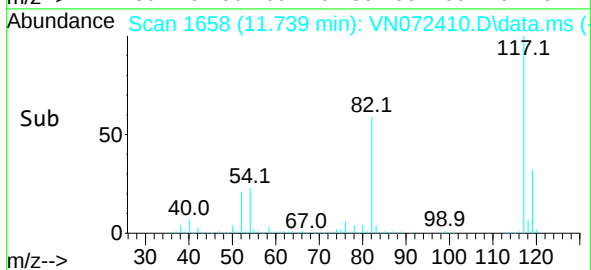
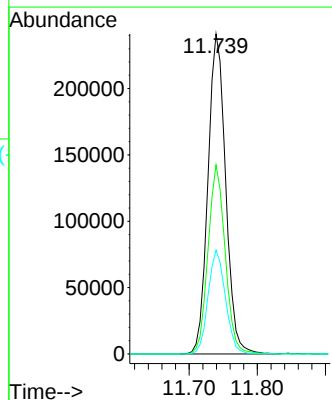
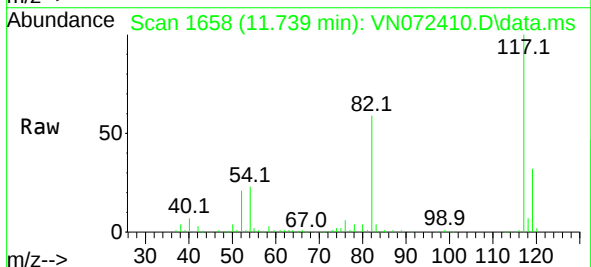
Instrument :
MSVOA_N
ClientSampleId :
MH-15842RE

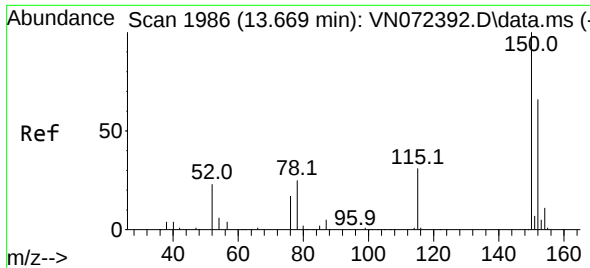
Tgt Ion: 95 Resp: 205606
Ion Ratio Lower Upper
95 100
174 78.2 0.0 167.6
176 74.3 0.0 163.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.739 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

Tgt Ion: 117 Resp: 435995
Ion Ratio Lower Upper
117 100
82 59.0 44.2 66.2
119 32.4 25.4 38.0

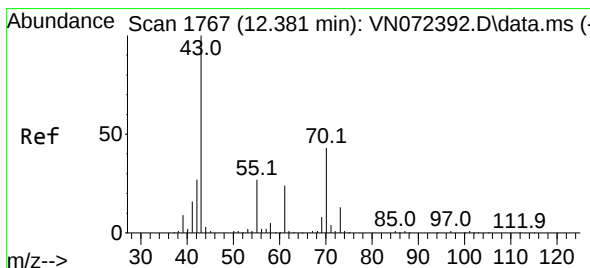
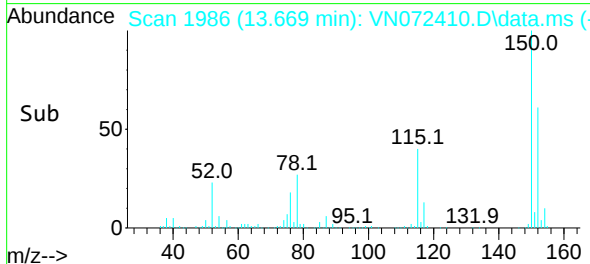
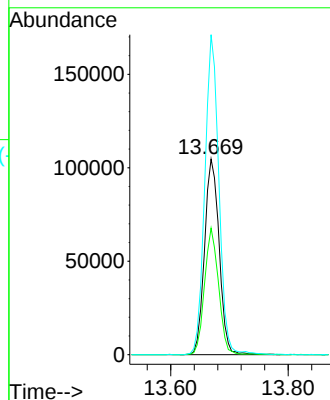
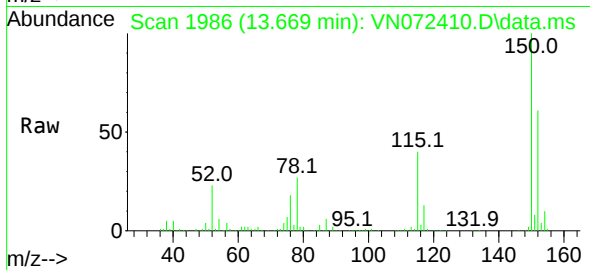




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.669 min Scan# 1986
Delta R.T. -0.000 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

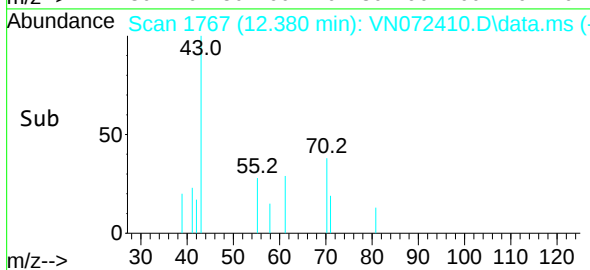
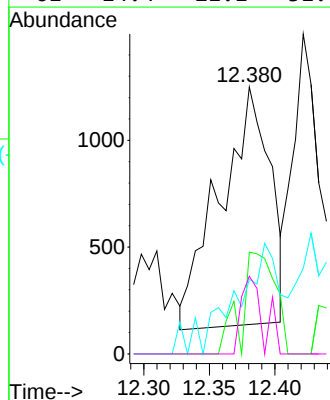
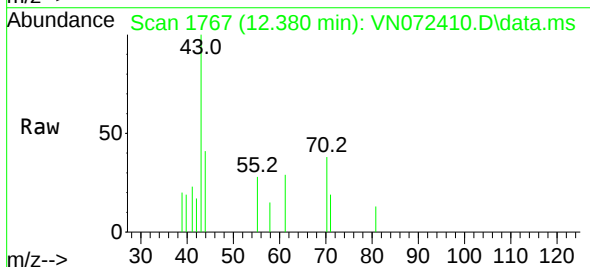
Instrument :
MSVOA_N
ClientSampleId :
MH-15842RE

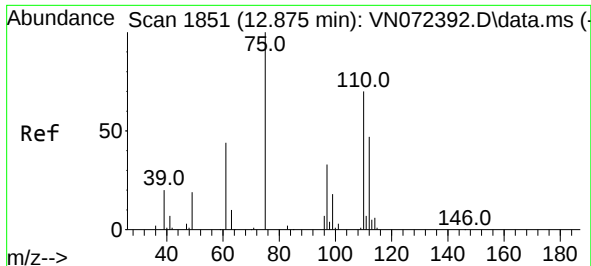
Tgt Ion:152 Resp: 181636
Ion Ratio Lower Upper
152 100
115 62.3 28.9 86.7
150 157.3 0.0 356.2



#74
N-ethyl acetate
Concen: 0.557 ug/l
RT: 12.380 min Scan# 1767
Delta R.T. -0.001 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

Tgt Ion: 43 Resp: 2961
Ion Ratio Lower Upper
43 100
70 28.9 39.0 58.4#
55 41.1 21.1 31.7#
61 14.4 21.1 31.7#

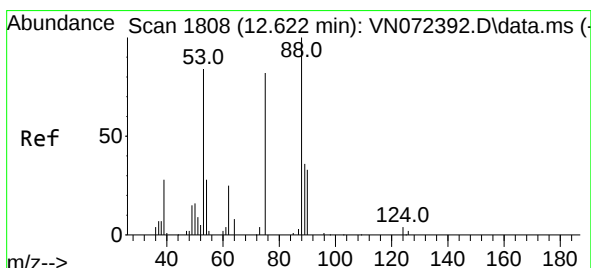
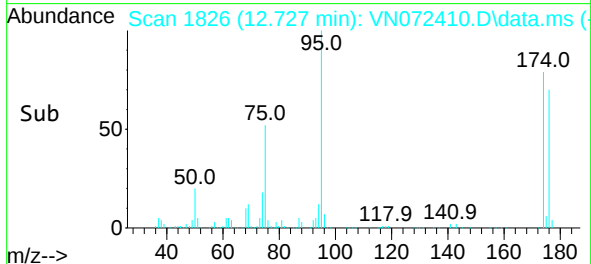
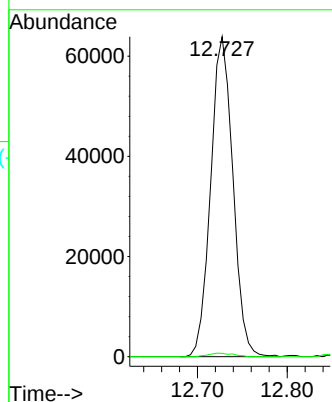
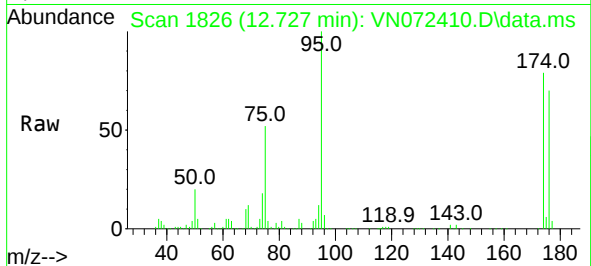




#76
1,2,3-Trichloropropane
Concen: 23.212 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. -0.148 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

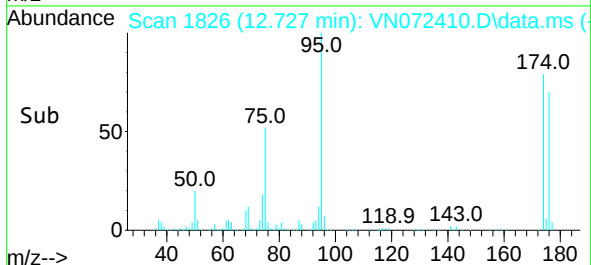
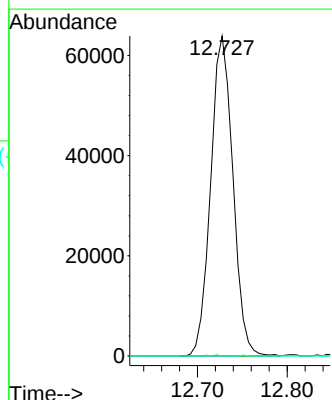
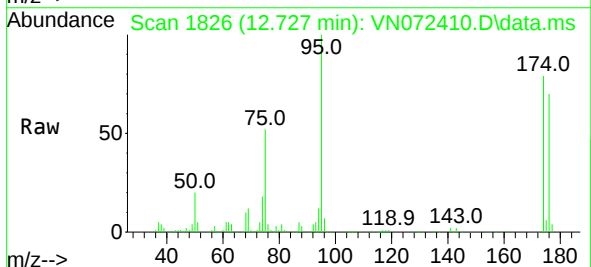
Instrument :
MSVOA_N
ClientSampleId :
MH-15842RE

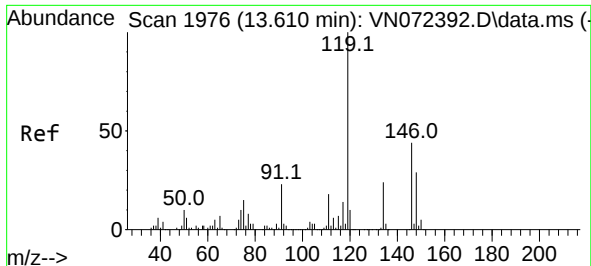
Tgt Ion: 75 Resp: 109964
Ion Ratio Lower Upper
75 100
77 1.2 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 77.435 ug/l
RT: 12.727 min Scan# 1826
Delta R.T. 0.105 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

Tgt Ion: 75 Resp: 109964
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 37.2 55.8#





#87

1,3-Dichlorobenzene

Concen: 0.228 ug/l

RT: 13.610 min Scan# 1976

Delta R.T. -0.000 min

Lab File: VN072410.D

Acq: 11 May 2022 12:27

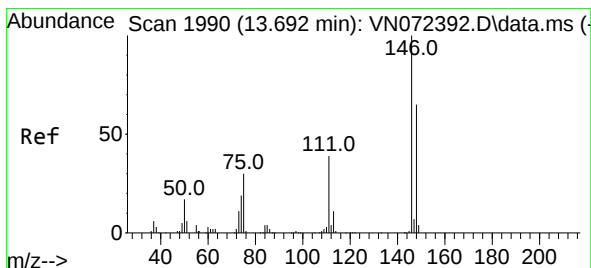
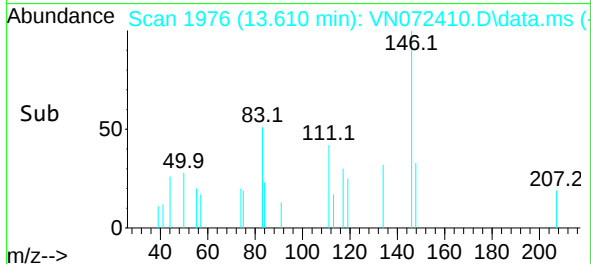
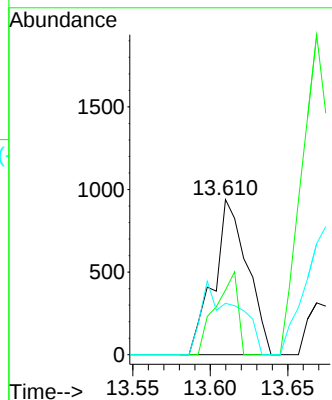
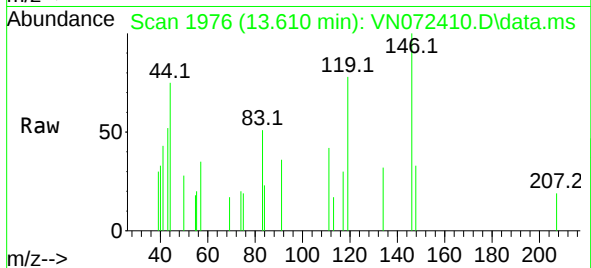
Instrument :

MSVOA_N

ClientSampleId :

MH-15842RE

Tgt Ion:146	Resp:	1414
Ion	Ratio	Lower Upper
146	100	
111	35.3	20.0 60.0
148	49.6	32.0 96.0



#88

1,4-Dichlorobenzene

Concen: 0.229 ug/l

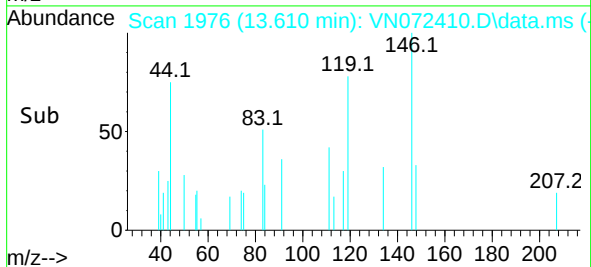
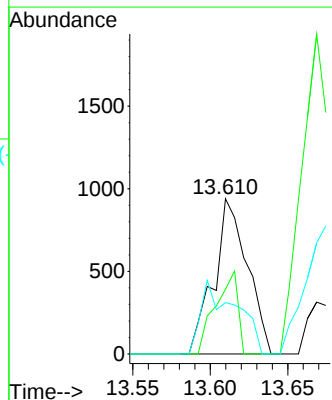
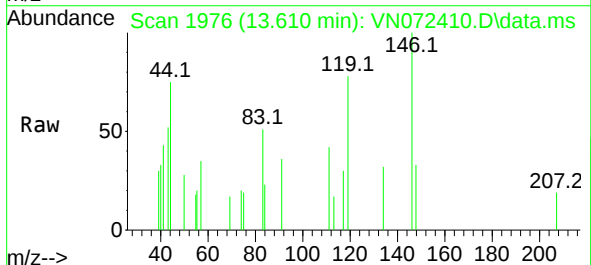
RT: 13.610 min Scan# 1976

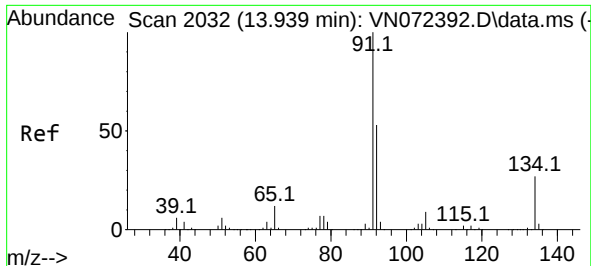
Delta R.T. -0.082 min

Lab File: VN072410.D

Acq: 11 May 2022 12:27

Tgt Ion:146	Resp:	1414
Ion	Ratio	Lower Upper
146	100	
111	35.3	19.1 57.1
148	49.6	31.4 94.3

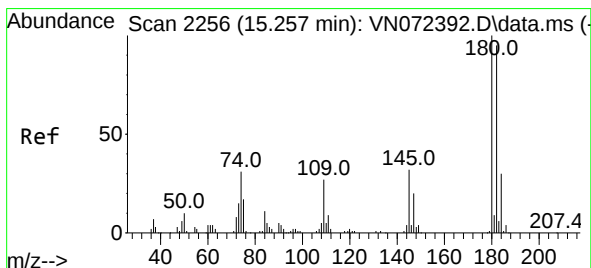
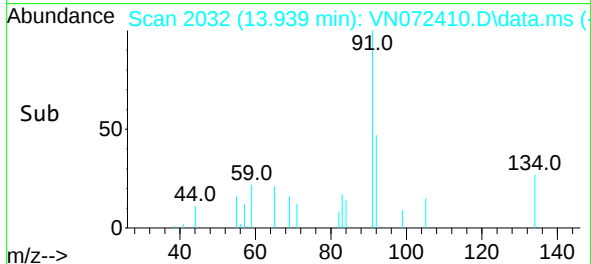
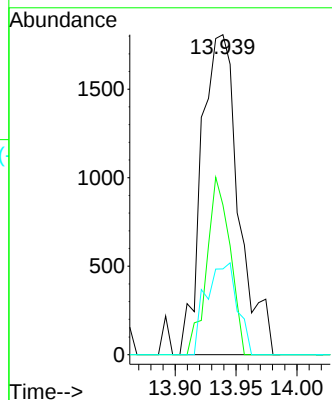
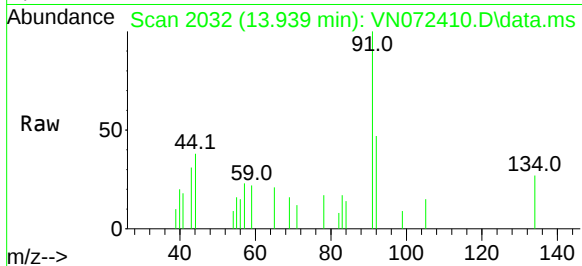




#89
n-Butylbenzene
Concen: 0.446 ug/l
RT: 13.939 min Scan# 2032
Delta R.T. 0.000 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

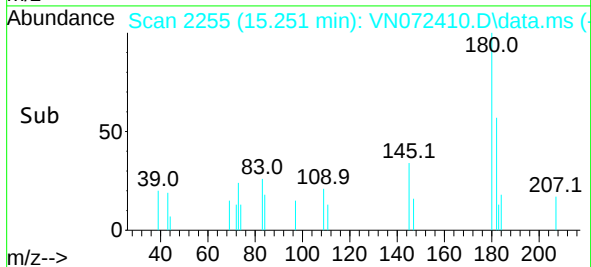
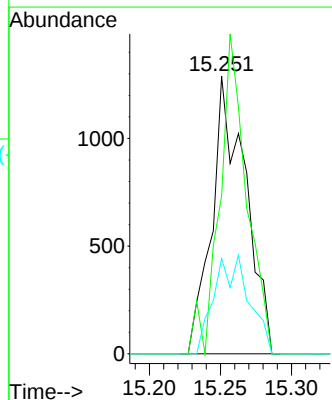
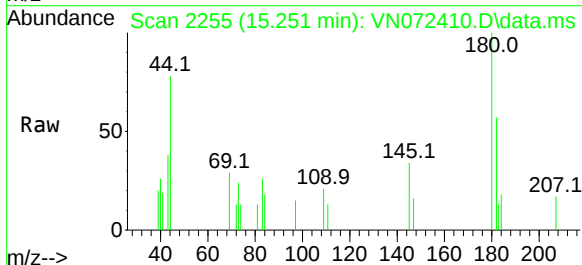
Instrument :
MSVOA_N
ClientSampleId :
MH-15842RE

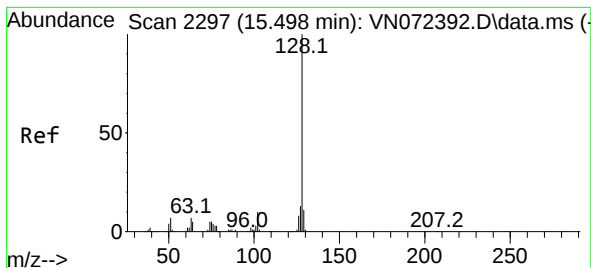
Tgt Ion: 91	Resp:	3820
Ion Ratio	Lower	Upper
91	100	
92	34.7	26.9 80.7
134	24.2	13.6 40.8



#93
1,2,4-Trichlorobenzene
Concen: 0.901 ug/l
RT: 15.251 min Scan# 2255
Delta R.T. -0.006 min
Lab File: VN072410.D
Acq: 11 May 2022 12:27

Tgt Ion: 180	Resp:	2116
Ion Ratio	Lower	Upper
180	100	
182	93.1	47.5 142.5
145	37.0	14.5 43.5





#95

Naphthalene

Concen: 4.153 ug/l

RT: 15.504 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN072410.D

Acq: 11 May 2022 12:27

Instrument :

MSVOA_N

ClientSampleId :

MH-15842RE

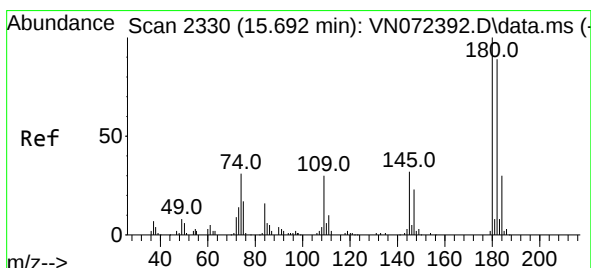
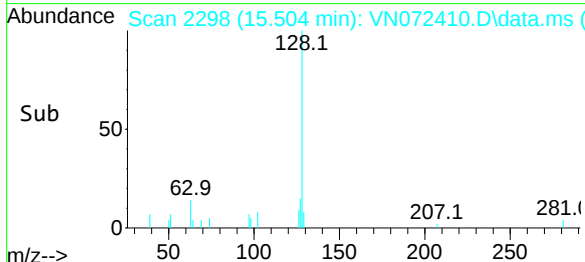
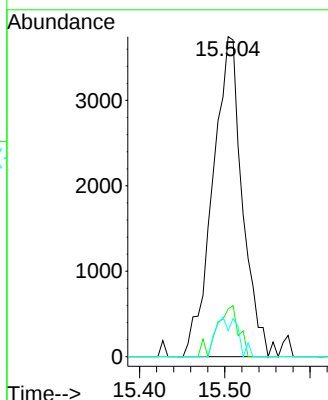
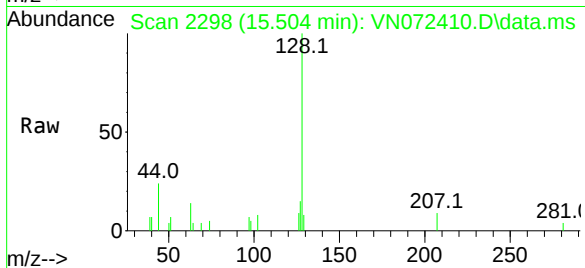
Tgt Ion:128 Resp: 9054

Ion Ratio Lower Upper

128 100

127 11.6 10.3 15.5

129 9.2 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 1.166 ug/l

RT: 15.698 min Scan# 2331

Delta R.T. 0.006 min

Lab File: VN072410.D

Acq: 11 May 2022 12:27

Tgt Ion:180 Resp: 2744

Ion Ratio Lower Upper

180 100

182 74.7 47.8 143.3

145 22.6 15.5 46.5

