

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062321\
 Data File : VN067451.D
 Acq On : 23 Jun 2021 11:13
 Operator : JC/MD
 Sample : VN0623MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 24 05:02:01 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N061421W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 15 05:19:42 2021
 Response via : Initial Calibration

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

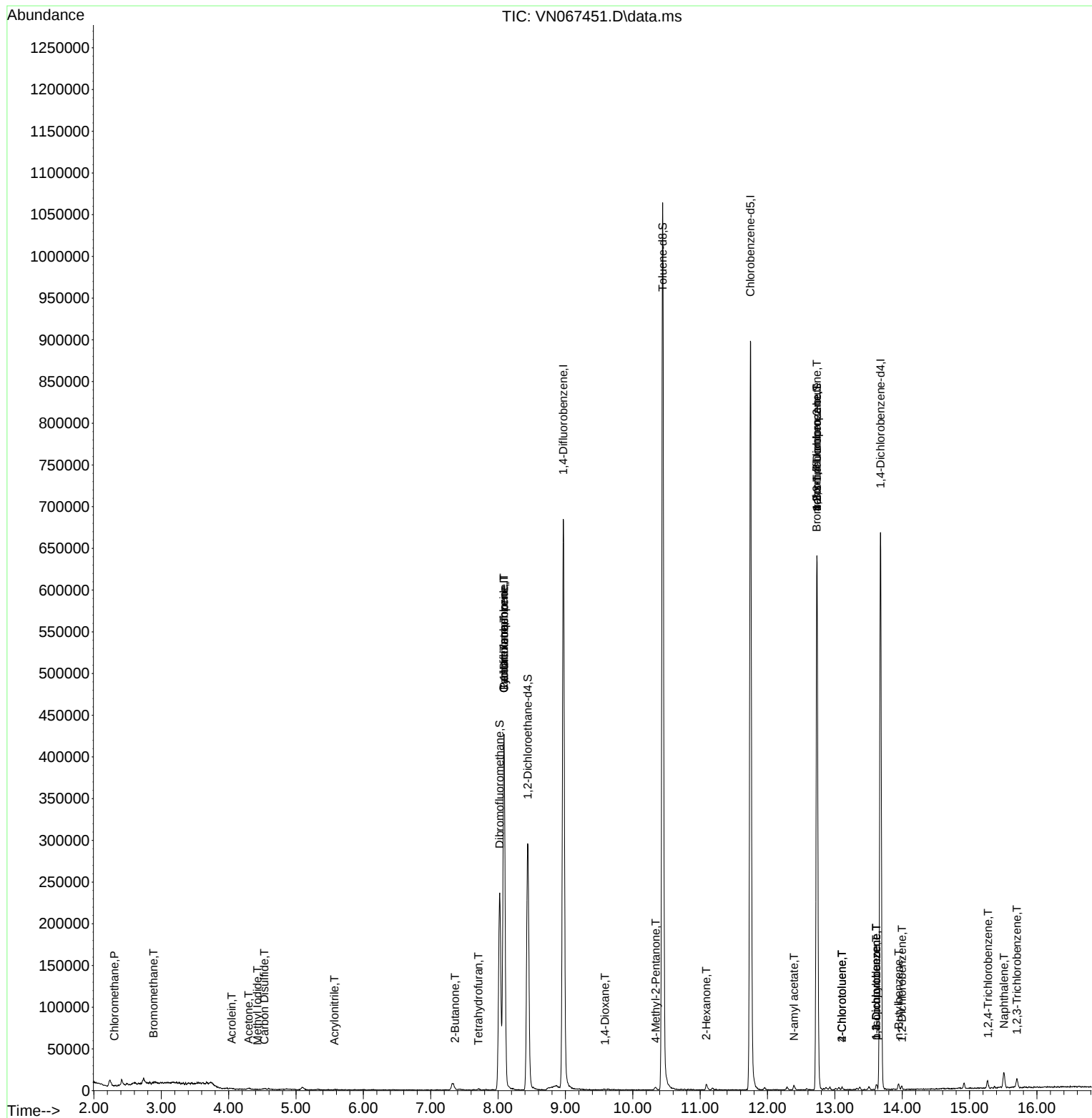
Internal Standards						
1) Pentafluorobenzene	8.088	168	267490	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.968	114	556936	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.746	117	481439	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.677	152	151269	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	252486	47.848	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	95.700%		
35) Dibromofluoromethane	8.024	113	170600	46.058	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	92.120%		
50) Toluene-d8	10.443	98	735445	51.803	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	103.600%		
62) 4-Bromofluorobenzene	12.733	95	240396	41.031	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	82.060%		
Target Compounds					Qvalue	
3) Chloromethane	2.303	50	880	0.217	ug/l #	85
5) Bromomethane	2.885	94	729	0.432	ug/l	96
10) Methyl Iodide	4.425	142	388	6.842	ug/l #	47
13) Acrolein	4.044	56	624	1.151	ug/l #	61
15) Acrylonitrile	5.570	53	429	0.225	ug/l #	63
16) Acetone	4.296	43	2152	1.063	ug/l #	73
17) Carbon Disulfide	4.529	76	2576	0.249	ug/l #	74
25) 2-Butanone	7.359	43	966	0.334	ug/l #	89
29) Tetrahydrofuran	7.707	42	888	0.487	ug/l #	51
31) Cyclohexane	8.086	56	9965	1.389	ug/l #	31
36) 1,1-Dichloropropene	8.088	75	33538	5.371	ug/l #	50
38) Carbon Tetrachloride	8.086	117	33536	4.997	ug/l #	16
49) 1,4-Dioxane	9.587	88	90	1.215	ug/l #	37
51) 4-Methyl-2-Pentanone	10.341	43	3278	0.480	ug/l #	65
59) 2-Hexanone	11.092	43	5819	1.162	ug/l	98
71) Bromoform	12.731	173	1082	0.363	ug/l #	1
74) N-amyl acetate	12.393	43	3881	0.548	ug/l #	95
76) 1,2,3-Trichloropropane	12.733	75	137266	34.944	ug/l #	100
79) 2-Chlorotoluene	13.106	91	2642	0.246	ug/l	76
81) trans-1,4-Dichloro-2-b...	12.733	75	137266	86.601	ug/l #	6
82) 4-Chlorotoluene	13.106	91	2642	0.247	ug/l	75
86) p-Isopropyltoluene	13.616	119	2258	0.203	ug/l #	64
87) 1,3-Dichlorobenzene	13.613	146	1291	0.242	ug/l	95
88) 1,4-Dichlorobenzene	13.613	146	1291	0.241	ug/l	94
89) n-Butylbenzene	13.948	91	4188	0.401	ug/l	95
91) 1,2-Dichlorobenzene	13.997	146	1483	0.293	ug/l	96
93) 1,2,4-Trichlorobenzene	15.273	180	2577	0.976	ug/l	93
95) Naphthalene	15.512	128	16327	4.292	ug/l	98
96) 1,2,3-Trichlorobenzene	15.702	180	3452	1.361	ug/l	90

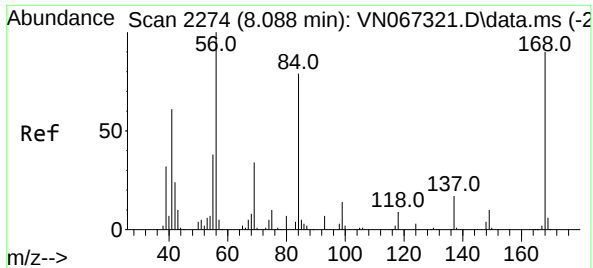
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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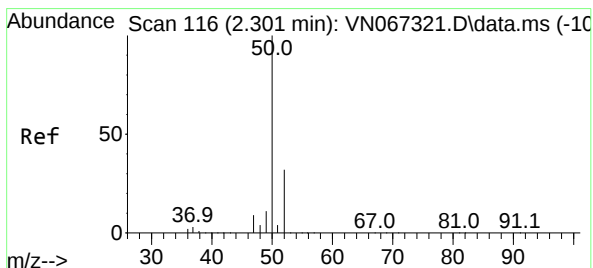
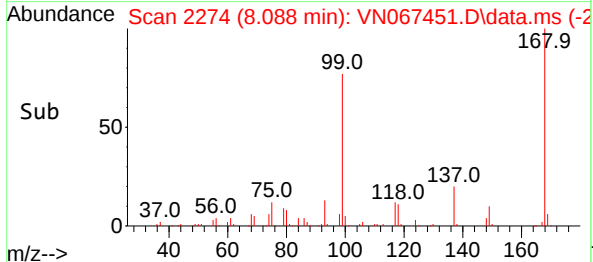
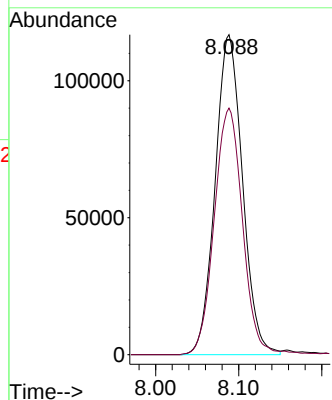
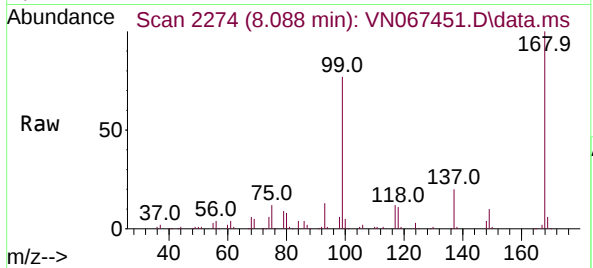




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. 0.000 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

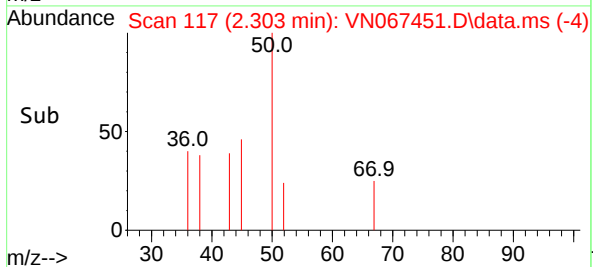
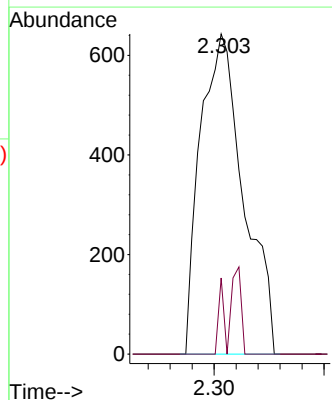
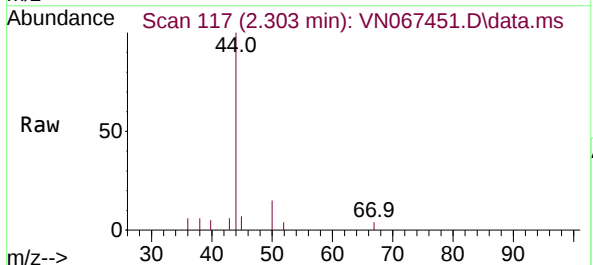
Instrument :
MSVOA_N
ClientSampleId :

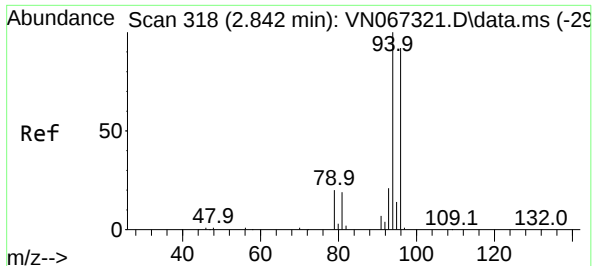
Tgt Ion:168 Resp: 267490
Ion Ratio Lower Upper
168 100
99 77.1 62.9 94.3



#3
Chloromethane
Concen: 0.217 ug/l
RT: 2.303 min Scan# 117
Delta R.T. 0.002 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Tgt Ion: 50 Resp: 880
Ion Ratio Lower Upper
50 100
52 23.8 25.6 38.4#

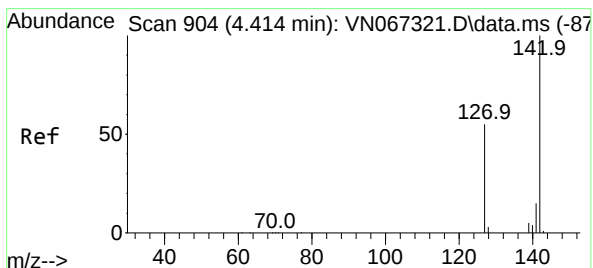
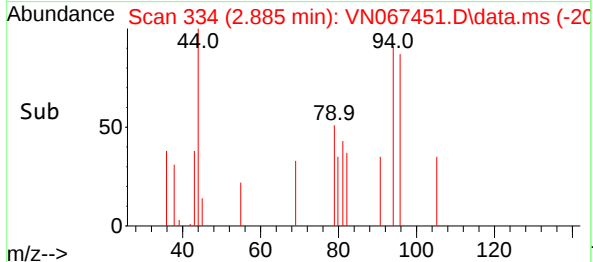
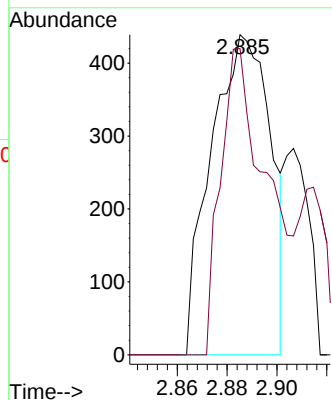
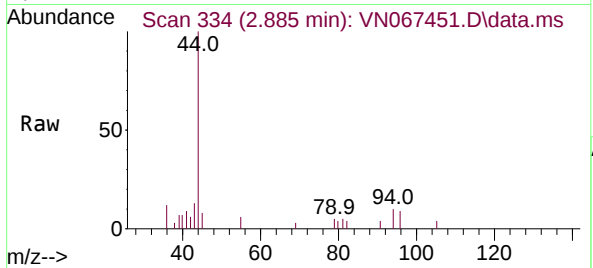




#5
Bromomethane
Concen: 0.432 ug/l
RT: 2.885 min Scan# 334
Delta R.T. 0.043 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

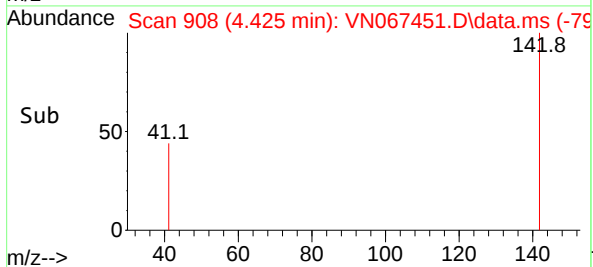
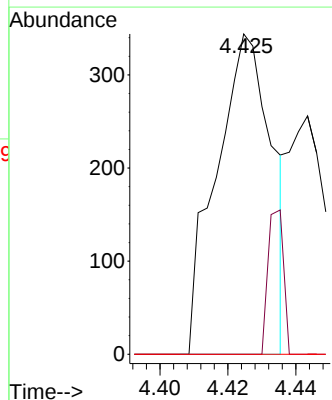
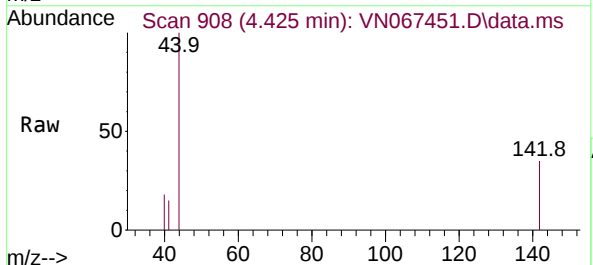
Instrument :
MSVOA_N
ClientSampled :

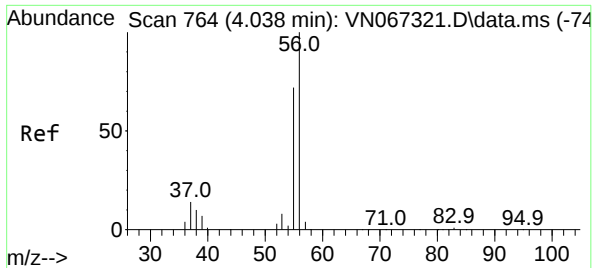
Tgt Ion: 94 Resp: 729
Ion Ratio Lower Upper
94 100
96 95.7 73.7 110.5



#10
Methyl Iodide
Concen: 6.842 ug/l
RT: 4.425 min Scan# 908
Delta R.T. 0.011 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Tgt Ion:142 Resp: 388
Ion Ratio Lower Upper
142 100
127 12.6 43.1 64.7#
141 0.0 11.4 17.0#

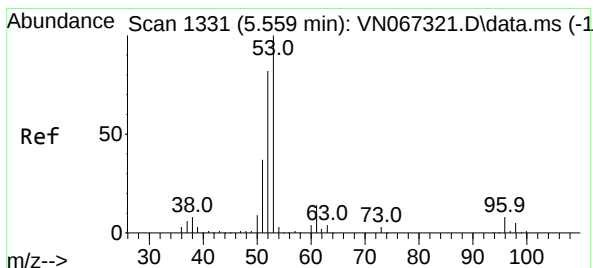
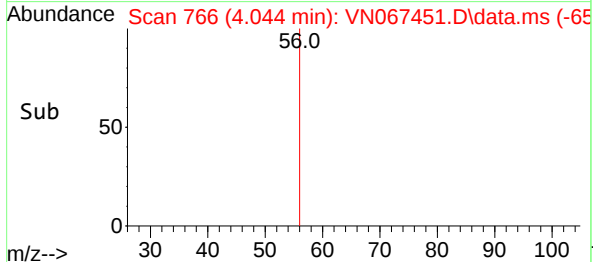
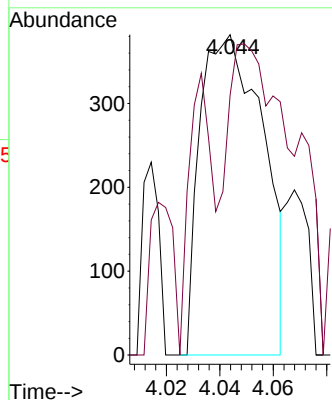
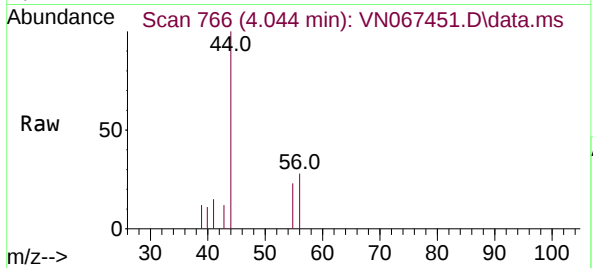




#13
Acrolein
Concen: 1.151 ug/l
RT: 4.044 min Scan# 766
Delta R.T. 0.006 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

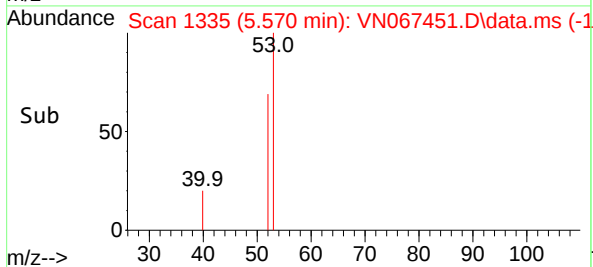
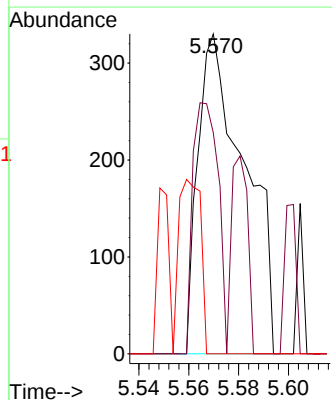
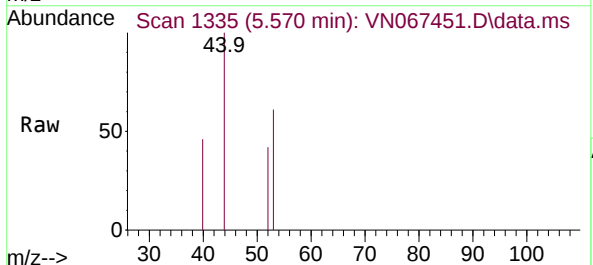
Instrument :
MSVOA_N
ClientSampleId :

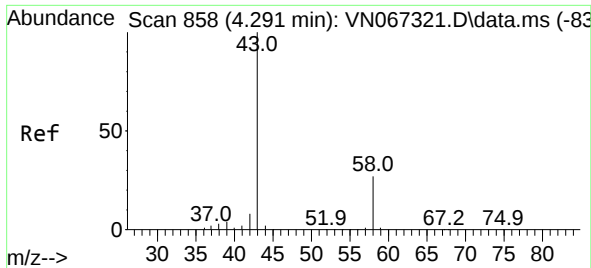
Tgt Ion: 56 Resp: 624
Ion Ratio Lower Upper
56 100
55 104.5 57.4 86.0#



#15
Acrylonitrile
Concen: 0.225 ug/l
RT: 5.570 min Scan# 1335
Delta R.T. 0.011 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Tgt Ion: 53 Resp: 429
Ion Ratio Lower Upper
53 100
52 42.2 66.2 99.2#
51 25.6 30.2 45.4#

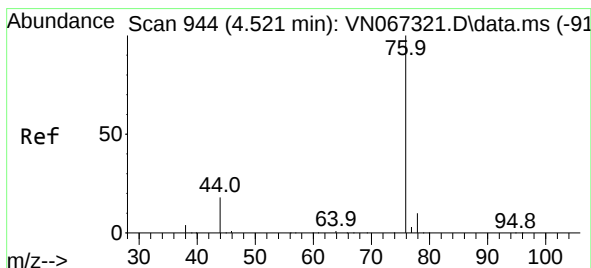
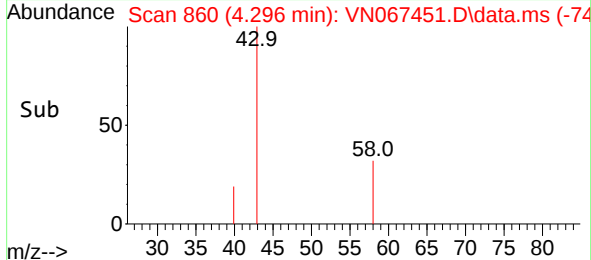
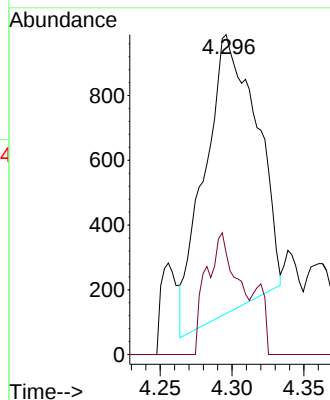
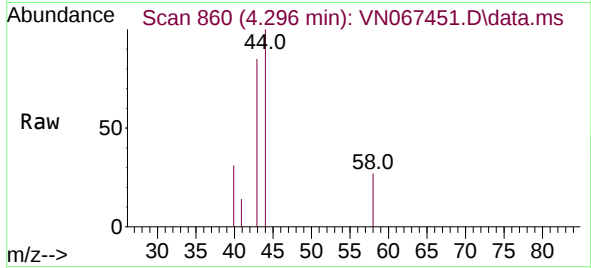




#16
Acetone
Concen: 1.063 ug/l
RT: 4.296 min Scan# 860
Delta R.T. 0.005 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

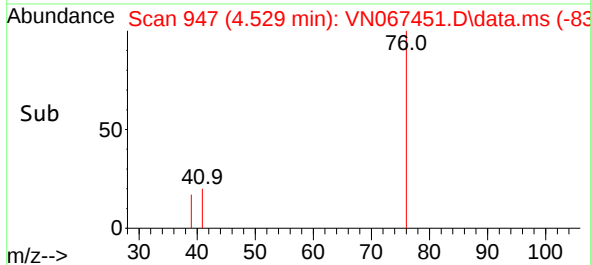
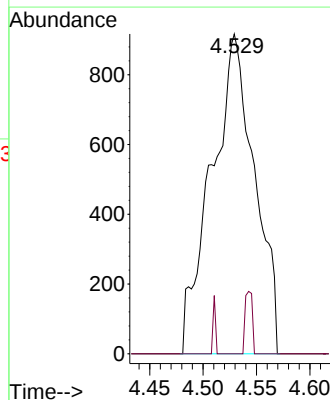
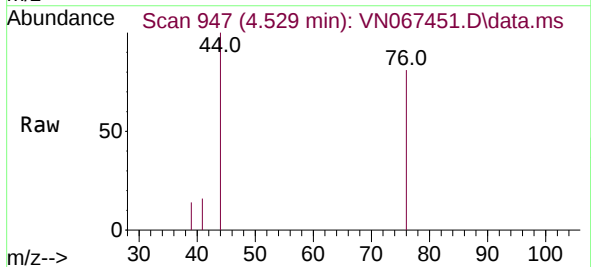
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ClientSampleId :

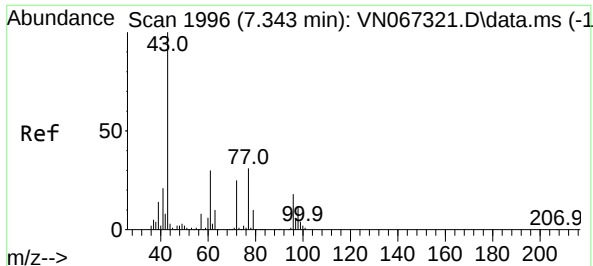
Tgt Ion: 43 Resp: 2152
Ion Ratio Lower Upper
43 100
58 40.6 21.2 31.8#



#17
Carbon Disulfide
Concen: 0.249 ug/l
RT: 4.529 min Scan# 947
Delta R.T. 0.008 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Tgt Ion: 76 Resp: 2576
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#

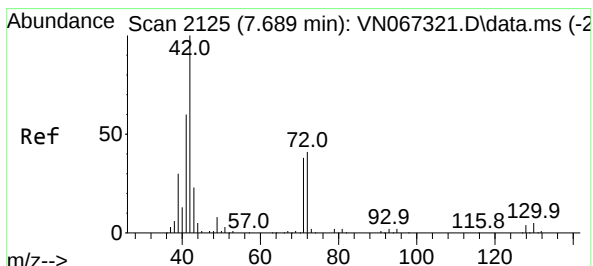
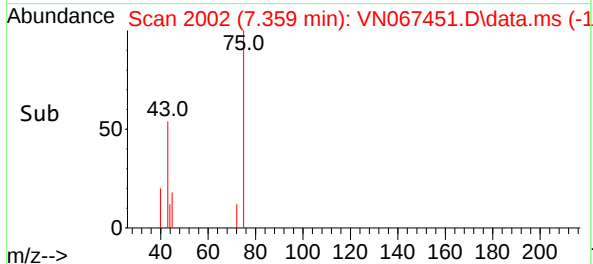
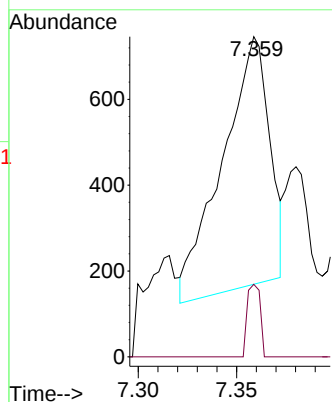
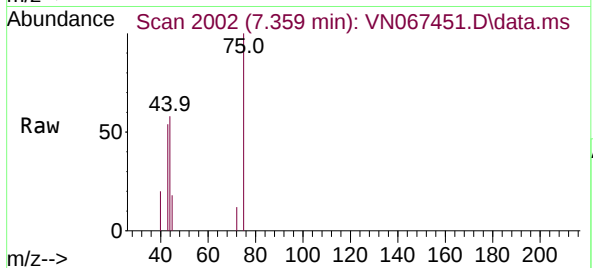




#25
2-Butanone
Concen: 0.334 ug/l
RT: 7.359 min Scan# 2002
Delta R.T. 0.016 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

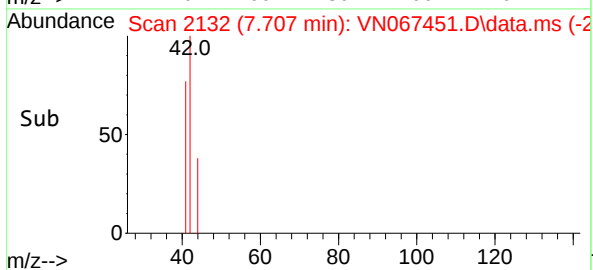
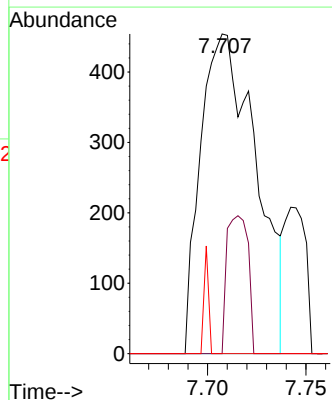
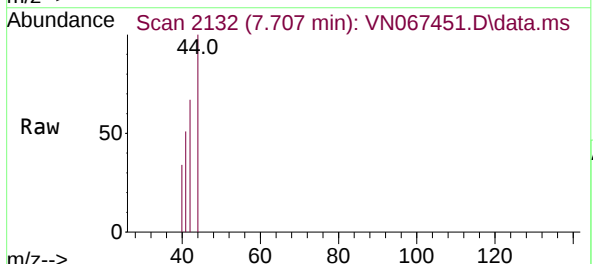
Instrument :
MSVOA_N
ClientSampled :

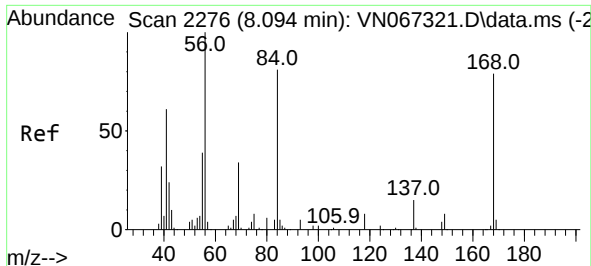
Tgt Ion: 43 Resp: 966
Ion Ratio Lower Upper
43 100
72 30.1 19.7 29.5#



#29
Tetrahydrofuran
Concen: 0.487 ug/l
RT: 7.707 min Scan# 2132
Delta R.T. 0.018 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Tgt Ion: 42 Resp: 888
Ion Ratio Lower Upper
42 100
72 16.6 32.8 49.2#
71 2.8 31.2 46.8#

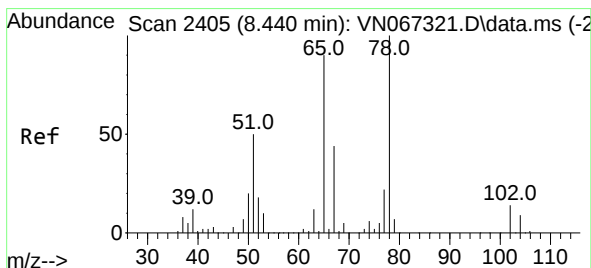
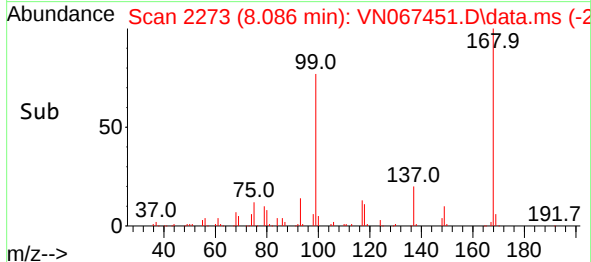
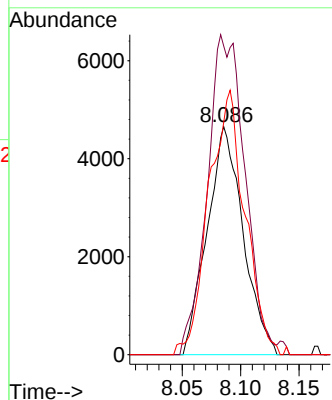
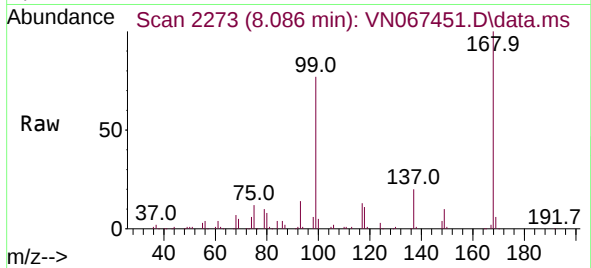




#31
Cyclohexane
Concen: 1.389 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.008 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

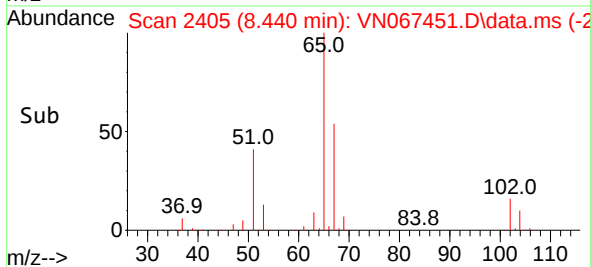
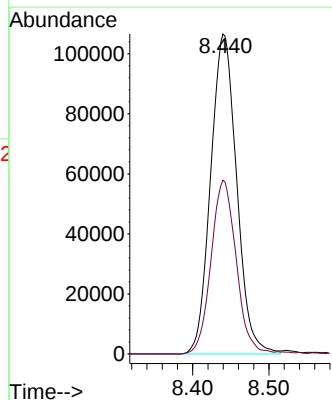
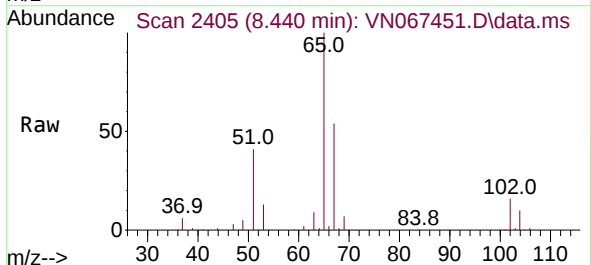
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MSVOA_N
ClientSampled :

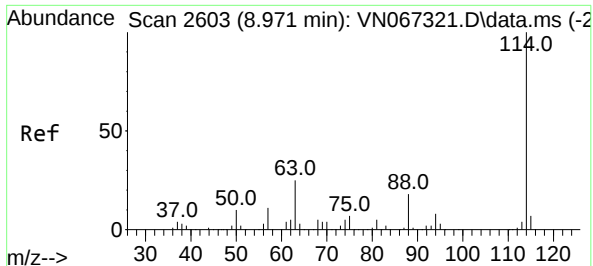
Tgt Ion: 56 Resp: 9965
Ion Ratio Lower Upper
56 100
69 135.4 27.3 40.9#
84 101.9 64.9 97.3#



#33
1,2-Dichloroethane-d4
Concen: 47.848 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Tgt Ion: 65 Resp: 252486
Ion Ratio Lower Upper
65 100
67 52.4 0.0 98.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. -0.003 min

Lab File: VN067451.D

Acq: 23 Jun 2021 11:13

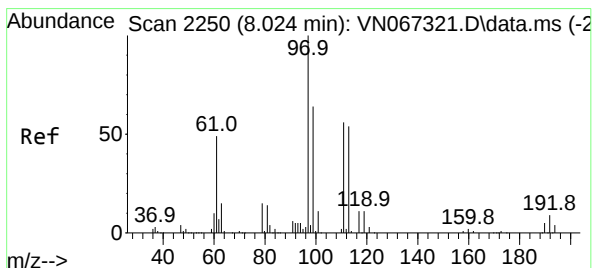
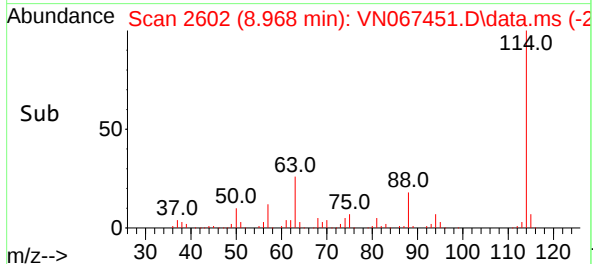
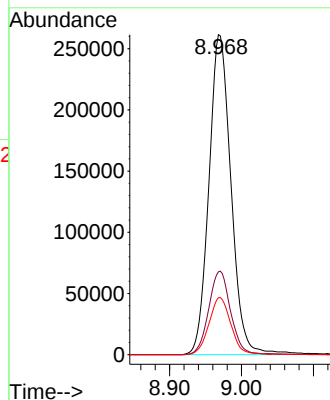
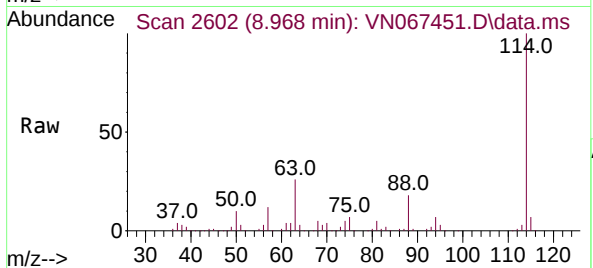
Tgt Ion:114 Resp: 556936

Ion Ratio Lower Upper

114 100

63 25.9 0.0 49.0

88 17.8 0.0 36.6



#35

Dibromofluoromethane

Concen: 46.058 ug/l

RT: 8.024 min Scan# 2250

Delta R.T. -0.000 min

Lab File: VN067451.D

Acq: 23 Jun 2021 11:13

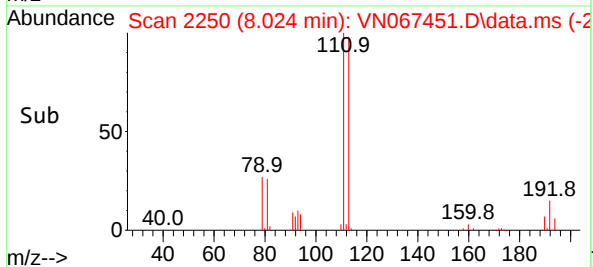
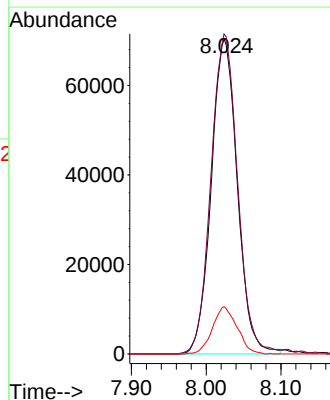
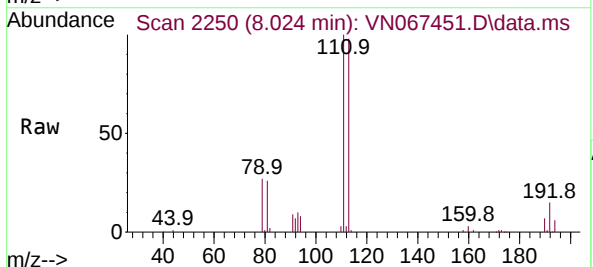
Tgt Ion:113 Resp: 170600

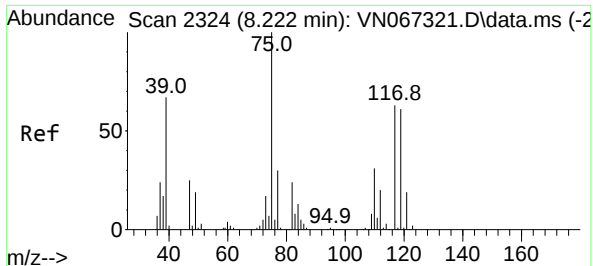
Ion Ratio Lower Upper

113 100

111 103.8 83.8 125.8

192 14.2 13.4 20.0

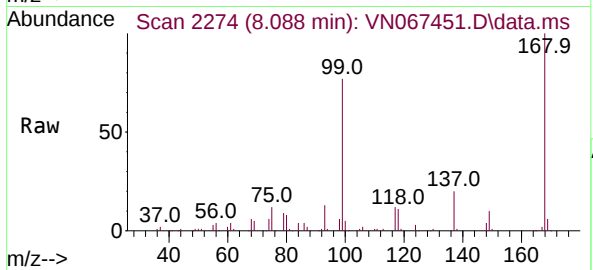




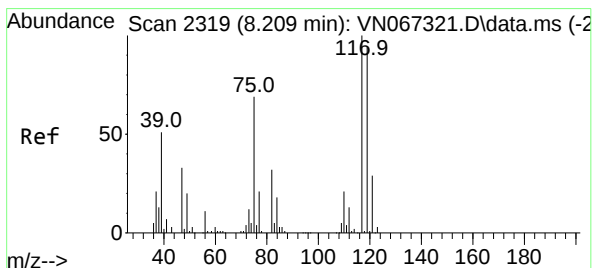
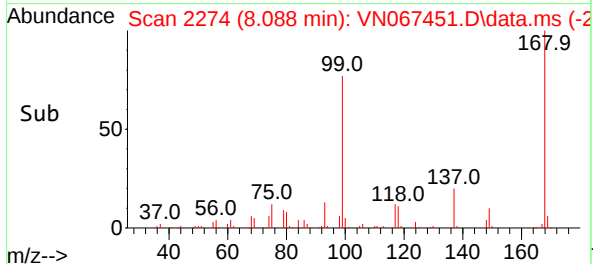
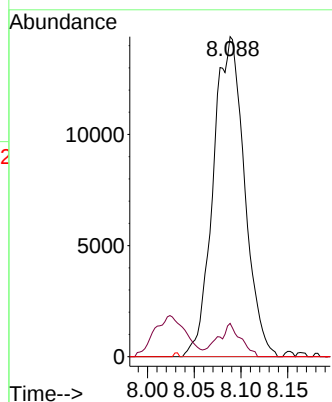
#36

1,1-Dichloropropene
Concen: 5.371 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.134 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Instrument :
MSVOA_N
ClientSampleId :



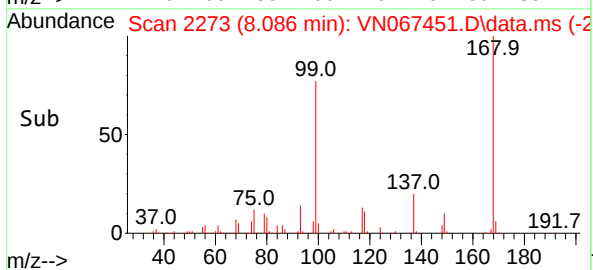
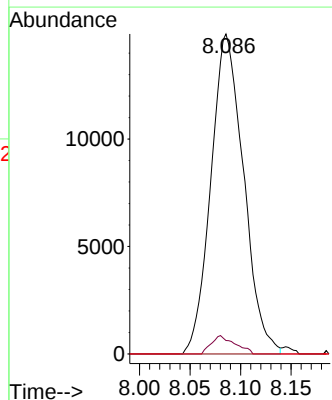
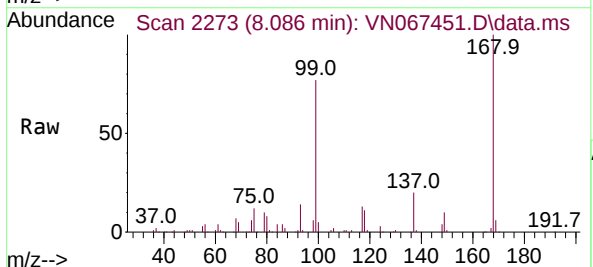
Tgt Ion: 75 Resp: 33538
Ion Ratio Lower Upper
75 100
110 7.6 15.7 47.0#
77 0.0 24.6 37.0#

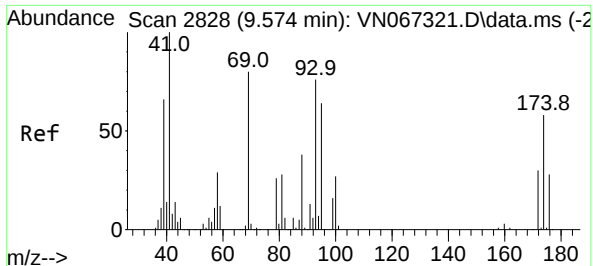


#38

Carbon Tetrachloride
Concen: 4.997 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.123 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Tgt Ion: 117 Resp: 33536
Ion Ratio Lower Upper
117 100
119 4.2 75.4 113.2#
121 0.0 23.5 35.3#





#49

1,4-Dioxane

Concen: 1.215 ug/l

RT: 9.587 min Scan# 2833

Delta R.T. 0.013 min

Lab File: VN067451.D

Acq: 23 Jun 2021 11:13

Tgt Ion: 88 Resp: 90

Ion Ratio Lower Upper

88 100

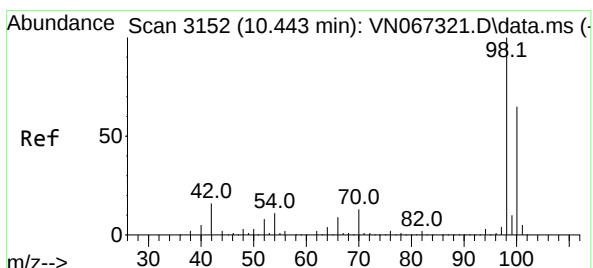
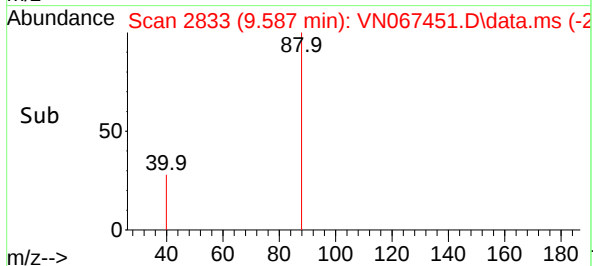
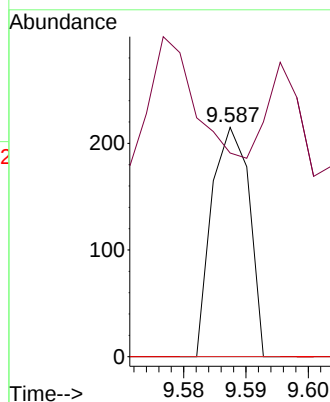
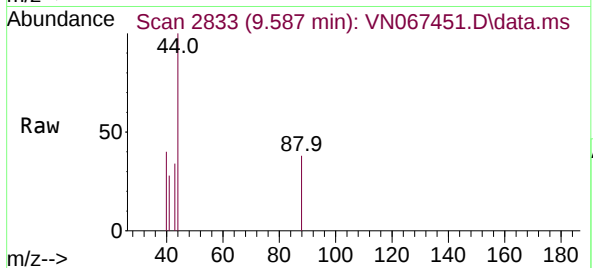
43 41.1 28.8 43.2

58 0.0 60.4 90.6#

Instrument :

MSVOA_N

ClientSampleId :



#50

Toluene-d8

Concen: 51.803 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. -0.000 min

Lab File: VN067451.D

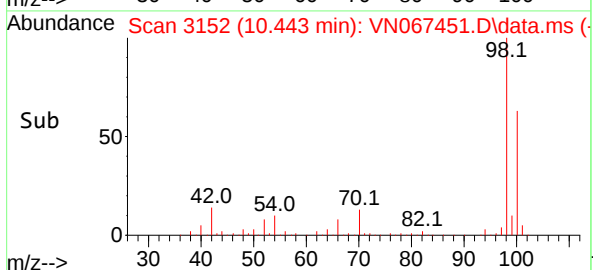
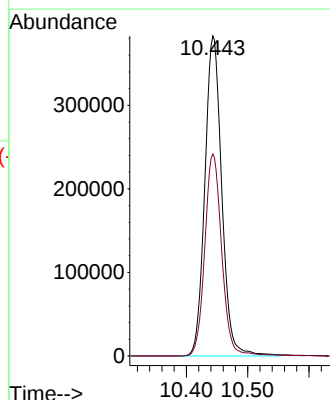
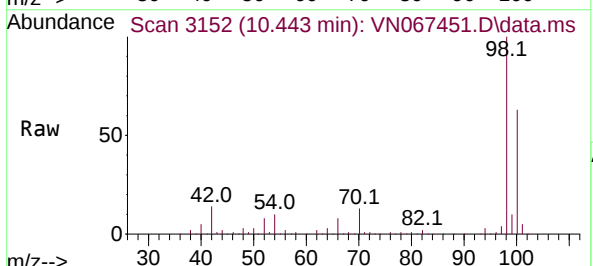
Acq: 23 Jun 2021 11:13

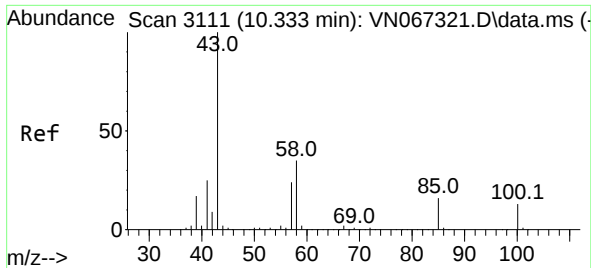
Tgt Ion: 98 Resp: 735445

Ion Ratio Lower Upper

98 100

100 63.0 51.7 77.5

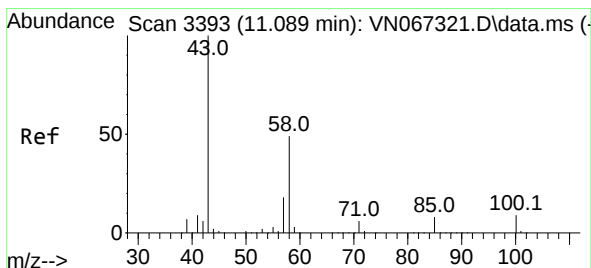
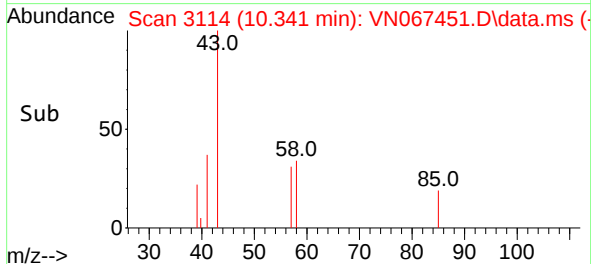
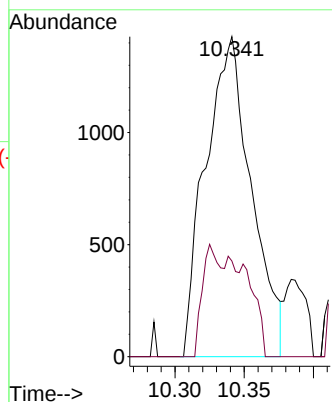
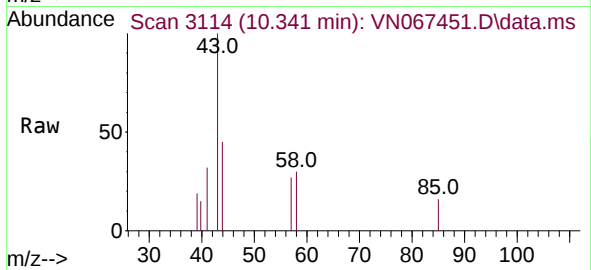




#51
4-Methyl-2-Pentanone
Concen: 0.480 ug/l
RT: 10.341 min Scan# 3114
Delta R.T. 0.008 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

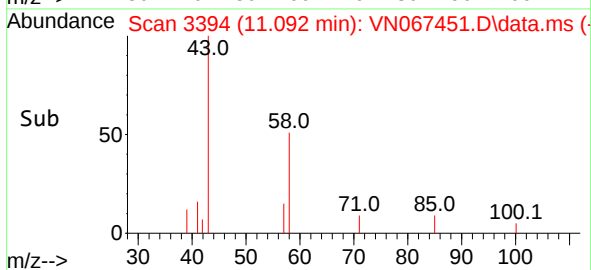
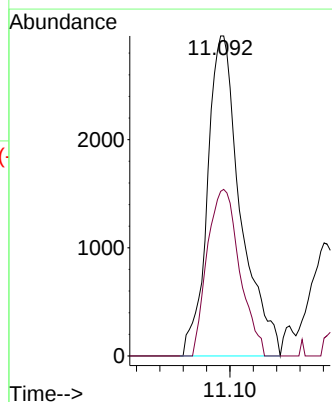
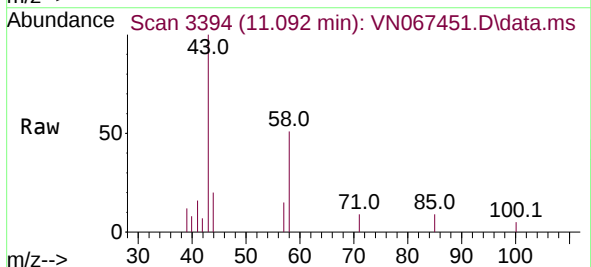
Instrument :
MSVOA_N
ClientSampled :

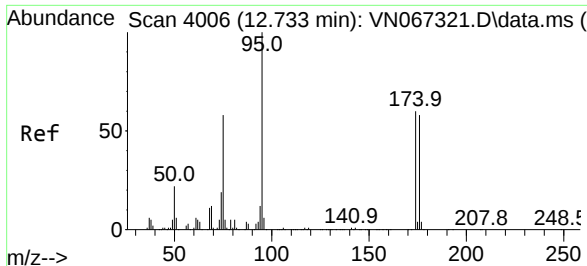
Tgt Ion: 43 Resp: 3278
Ion Ratio Lower Upper
43 100
58 15.2 28.6 43.0#



#59
2-Hexanone
Concen: 1.162 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.003 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Tgt Ion: 43 Resp: 5819
Ion Ratio Lower Upper
43 100
58 50.9 24.7 74.1

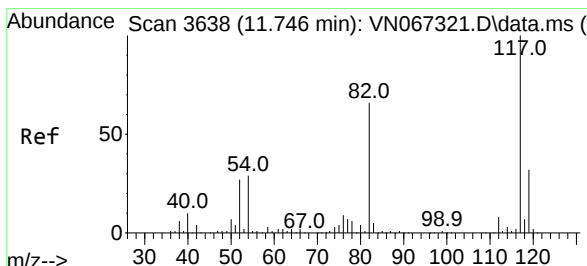
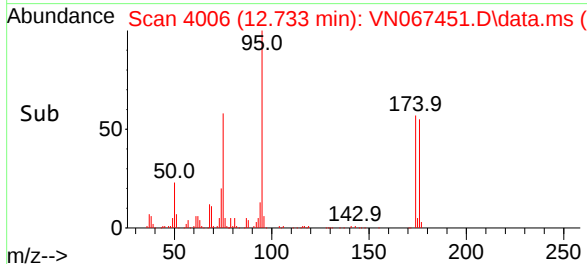
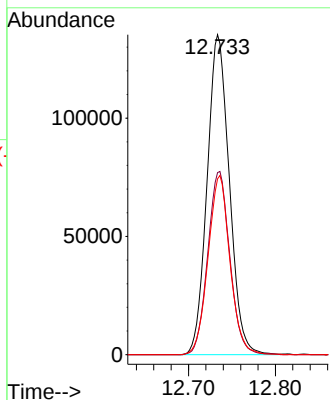
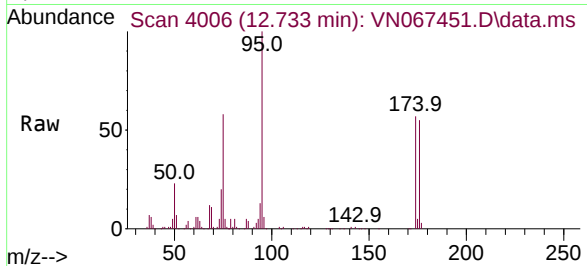




#62
4-Bromofluorobenzene
Concen: 41.031 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.000 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

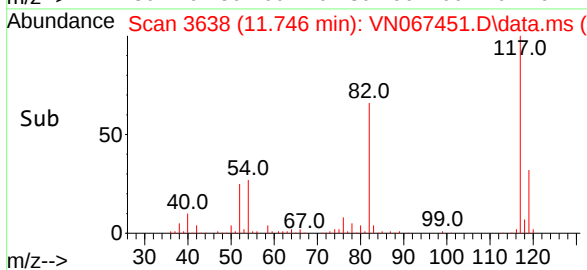
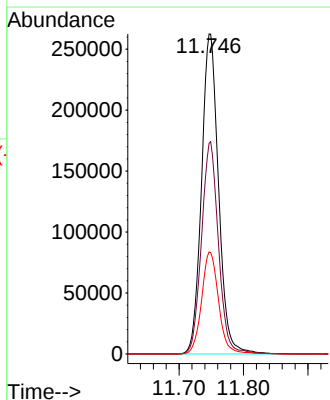
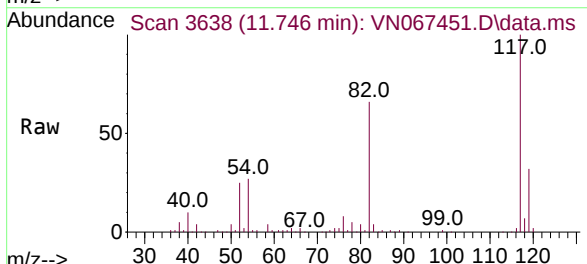
Instrument :
MSVOA_N
ClientSampleId :

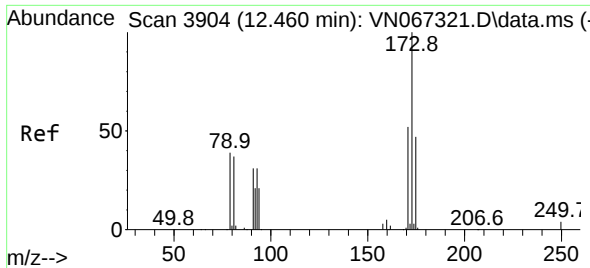
Tgt Ion: 95 Resp: 240396
Ion Ratio Lower Upper
95 100
174 57.0 0.0 122.0
176 55.2 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.746 min Scan# 3638
Delta R.T. 0.000 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Tgt Ion: 117 Resp: 481439
Ion Ratio Lower Upper
117 100
82 65.9 53.1 79.7
119 31.9 25.5 38.3

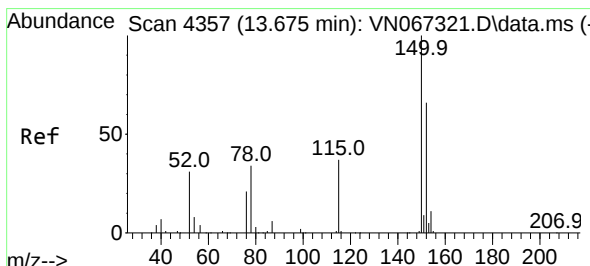
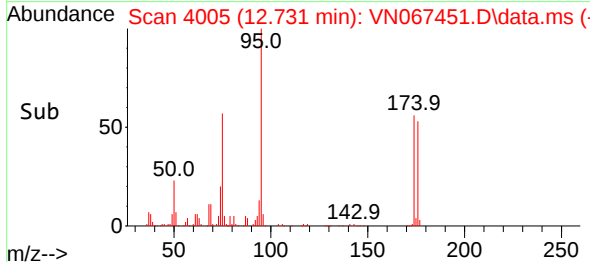
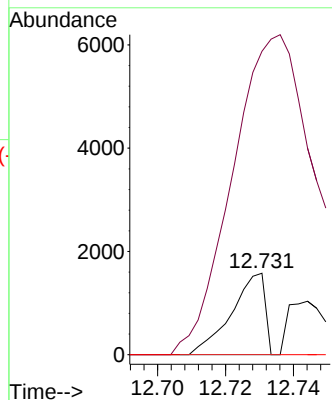
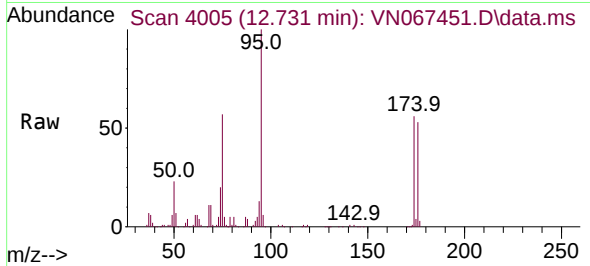




#71
Bromoform
Concen: 0.363 ug/l
RT: 12.731 min Scan# 4005
Delta R.T. 0.271 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

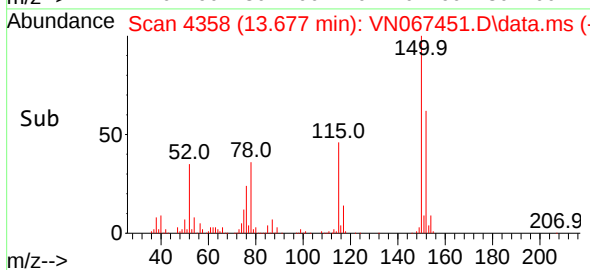
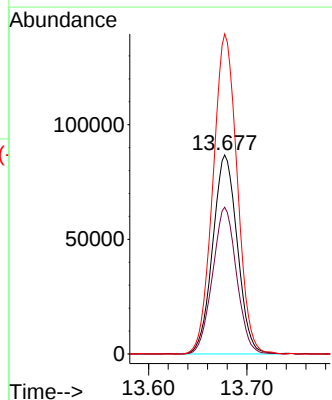
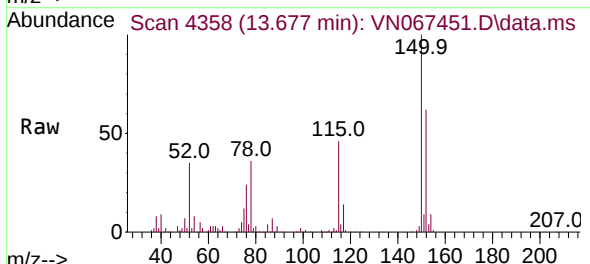
Instrument :
MSVOA_N
ClientSampleId :

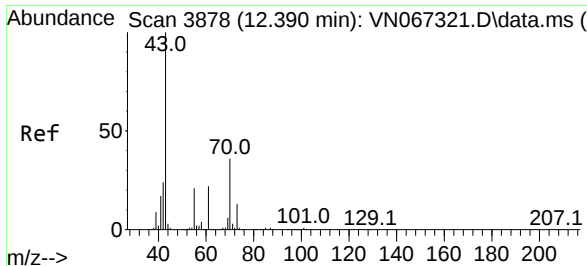
Tgt Ion:173 Resp: 1082
Ion Ratio Lower Upper
173 100
175 899.1 23.9 71.8#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.677 min Scan# 4358
Delta R.T. 0.003 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

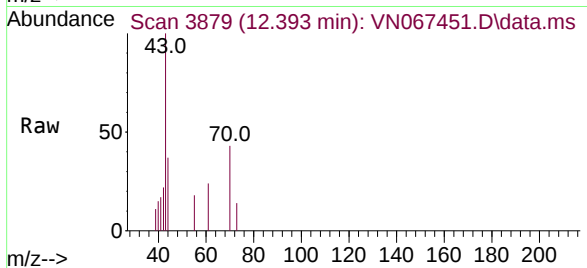
Tgt Ion:152 Resp: 151269
Ion Ratio Lower Upper
152 100
115 71.9 36.1 108.5
150 158.1 0.0 351.8



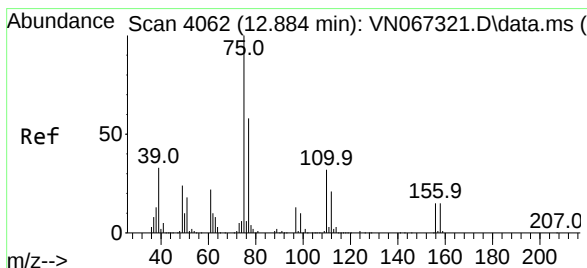
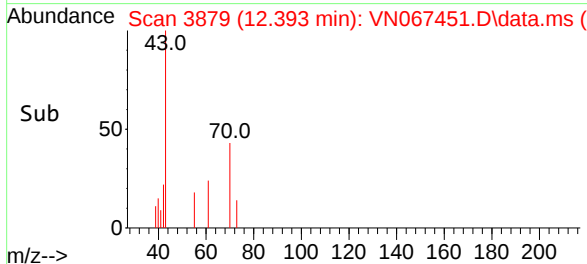
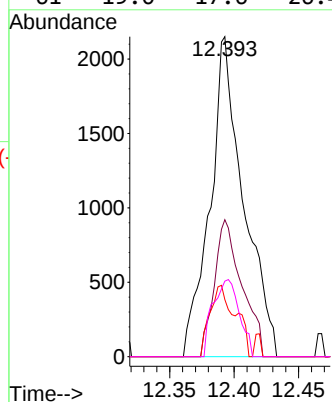


#74
N-amy1 acetate
Concen: 0.548 ug/l
RT: 12.393 min Scan# 3879
Delta R.T. 0.003 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Instrument :
MSVOA_N
ClientSampleId :

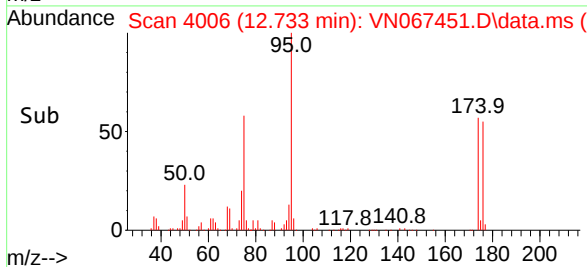
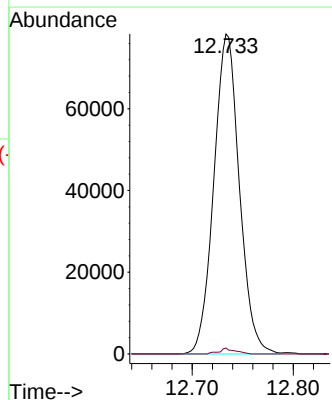
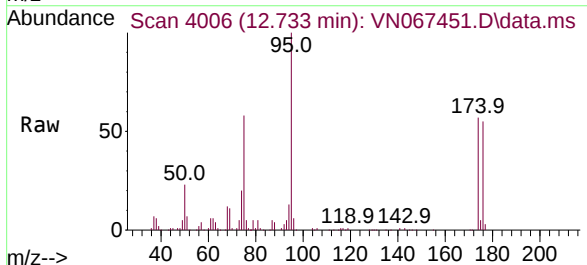


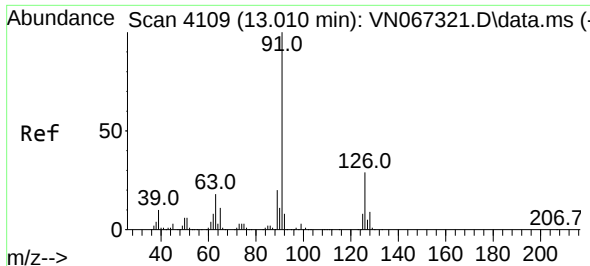
Tgt Ion:	43	Resp:	3881
Ion Ratio	100	Lower	Upper
70	35.1	29.4	44.2
55	16.9	17.0	25.4#
61	19.0	17.6	26.4



#76
1,2,3-Trichloropropane
Concen: 34.944 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. -0.151 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Tgt Ion:	75	Resp:	137266
Ion Ratio	100	Lower	Upper
77	1.1	0.0	0.0#

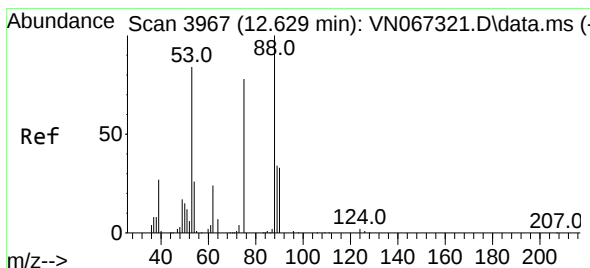
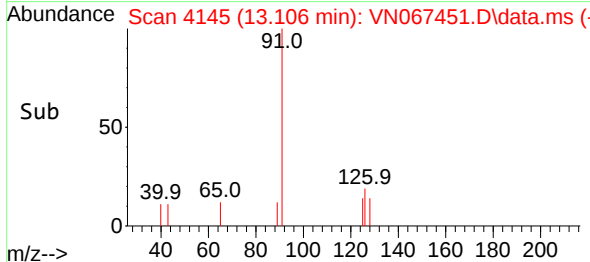
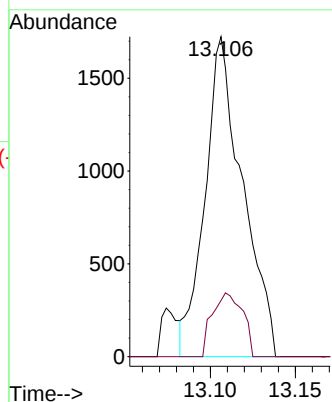
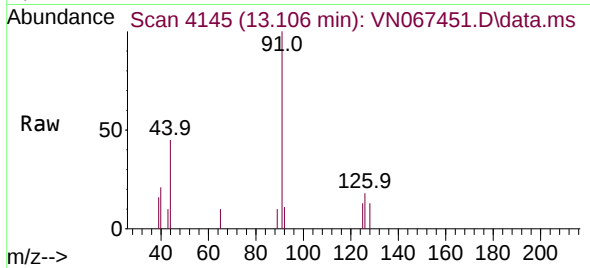




#79
2-Chlorotoluene
Concen: 0.246 ug/l
RT: 13.106 min Scan# 4145
Delta R.T. 0.096 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

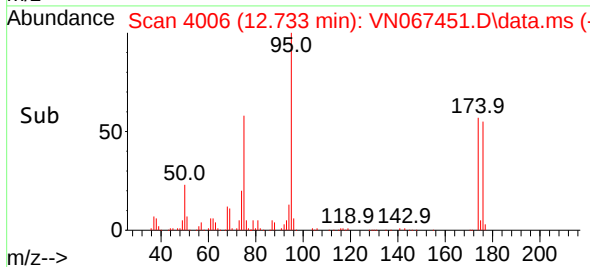
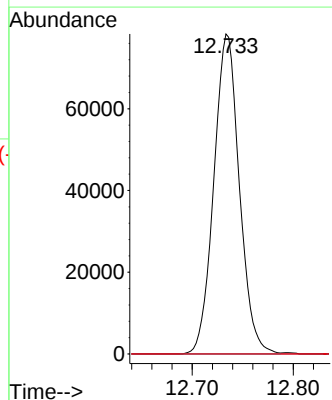
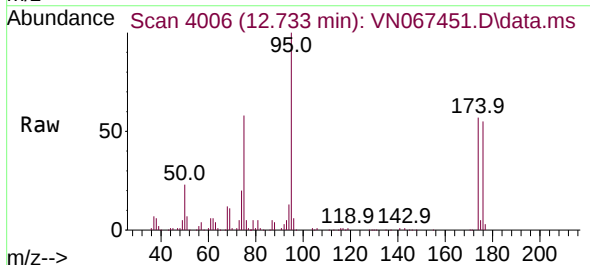
Instrument :
MSVOA_N
ClientSampled :

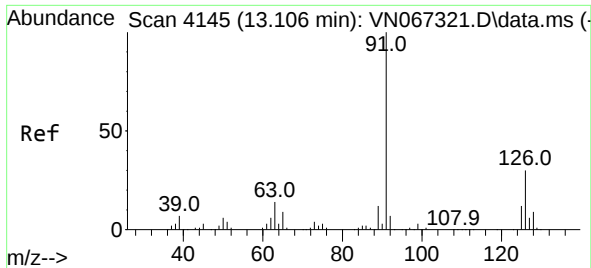
Tgt Ion: 91 Resp: 2642
Ion Ratio Lower Upper
91 100
126 16.1 14.5 43.5



#81
trans-1,4-Dichloro-2-butene
Concen: 86.601 ug/l
RT: 12.733 min Scan# 4006
Delta R.T. 0.104 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Tgt Ion: 75 Resp: 137266
Ion Ratio Lower Upper
75 100
53 0.0 87.6 131.4#
89 0.0 37.8 56.8#

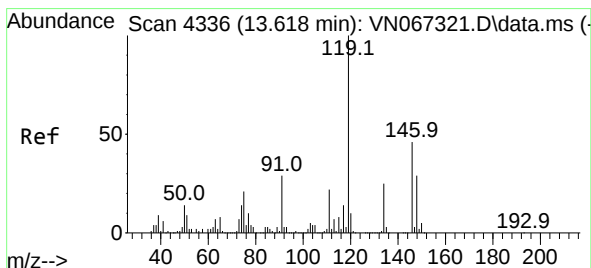
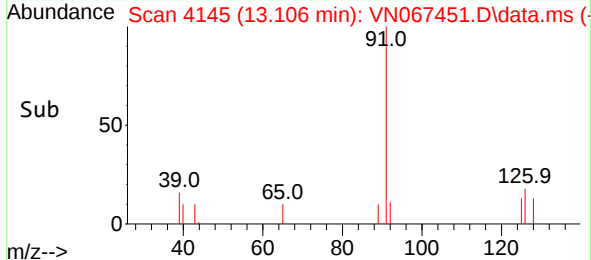
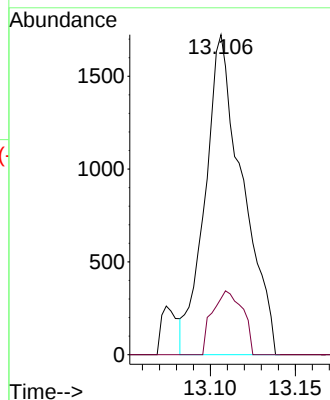
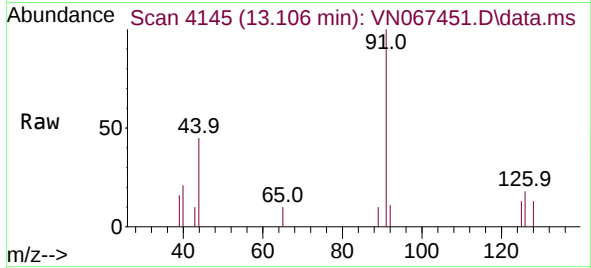




#82
4-Chlorotoluene
Concen: 0.247 ug/l
RT: 13.106 min Scan# 4145
Delta R.T. 0.000 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

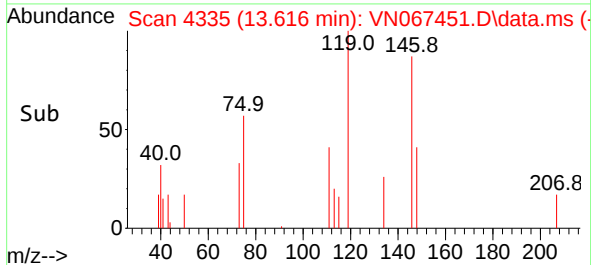
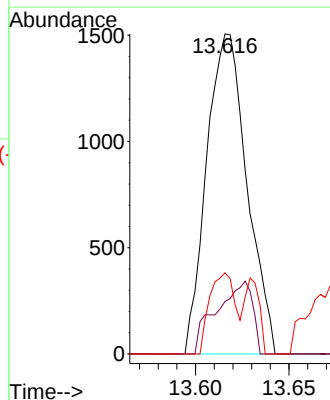
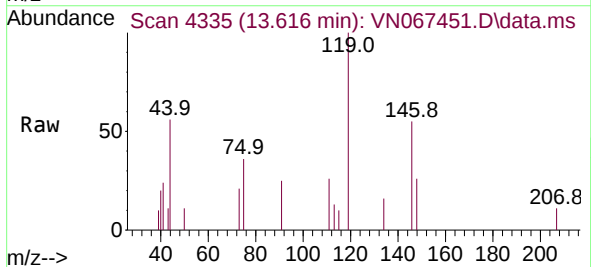
Instrument :
MSVOA_N
ClientSampled :

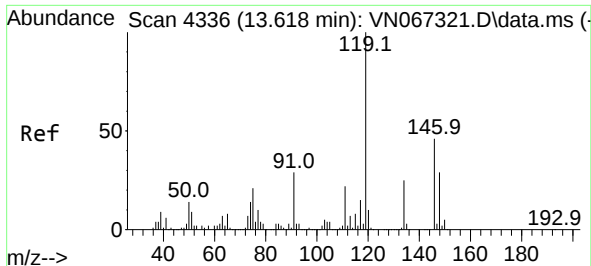
Tgt Ion: 91 Resp: 2642
Ion Ratio Lower Upper
91 100
126 16.1 14.8 44.4



#86
p-Isopropyltoluene
Concen: 0.203 ug/l
RT: 13.616 min Scan# 4335
Delta R.T. -0.002 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Tgt Ion: 119 Resp: 2258
Ion Ratio Lower Upper
119 100
134 0.0 12.4 37.4#
91 16.1 14.8 44.3





#87

1,3-Dichlorobenzene

Concen: 0.242 ug/l

RT: 13.613 min Scan# 4334

Delta R.T. -0.005 min

Lab File: VN067451.D

Acq: 23 Jun 2021 11:13

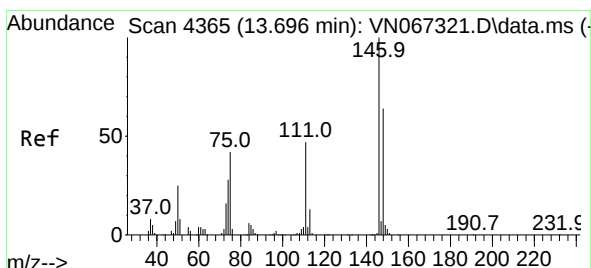
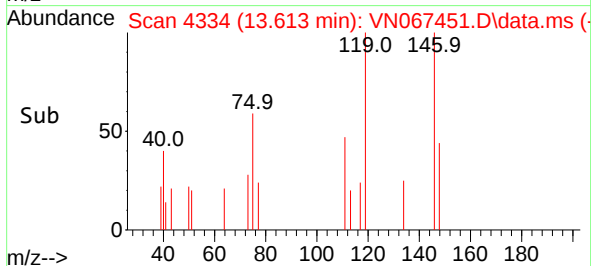
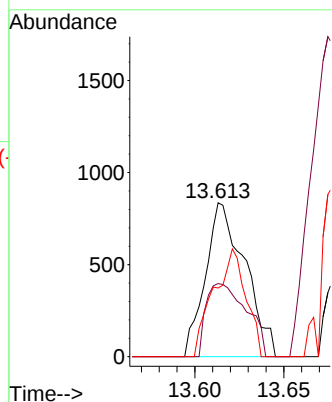
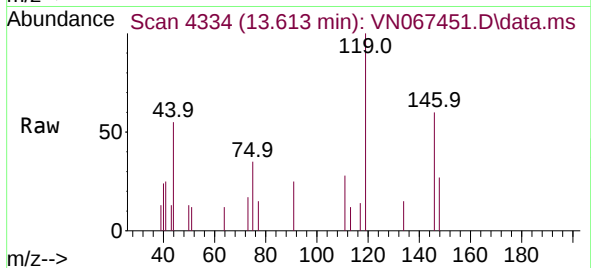
Tgt Ion:146 Resp: 1291

Ion Ratio Lower Upper

146 100

111 48.6 24.3 72.8

148 56.9 32.0 96.0



#88

1,4-Dichlorobenzene

Concen: 0.241 ug/l

RT: 13.613 min Scan# 4334

Delta R.T. -0.083 min

Lab File: VN067451.D

Acq: 23 Jun 2021 11:13

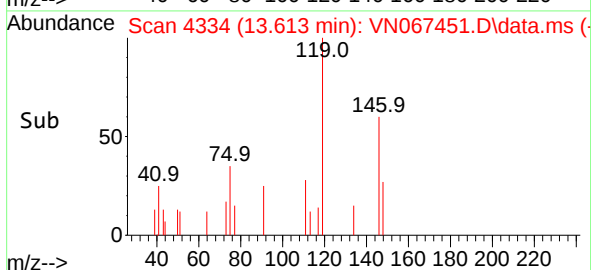
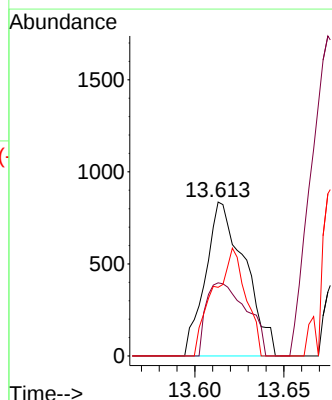
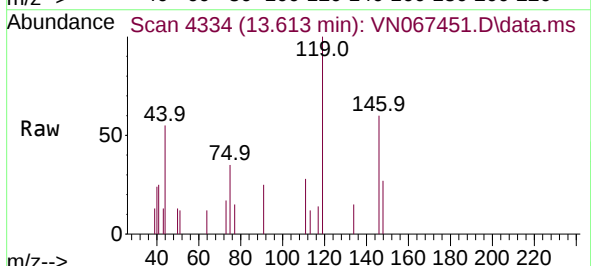
Tgt Ion:146 Resp: 1291

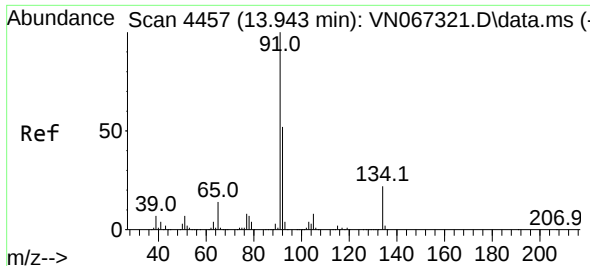
Ion Ratio Lower Upper

146 100

111 48.6 23.4 70.2

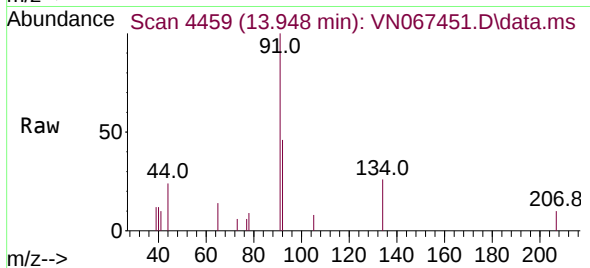
148 56.9 31.8 95.3



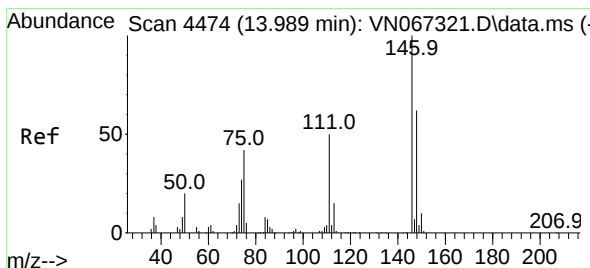
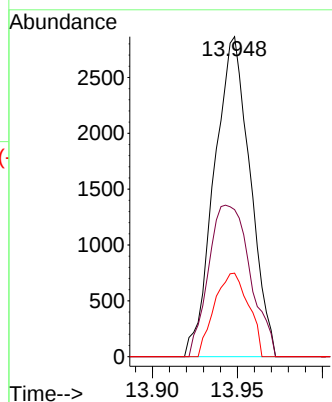
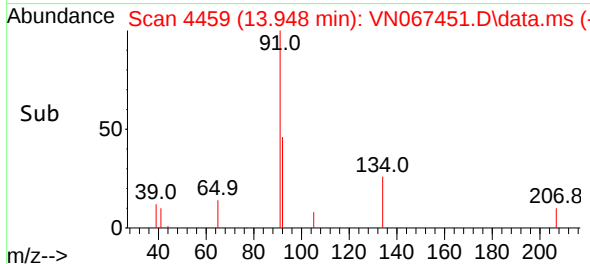


#89
n-Butylbenzene
Concen: 0.401 ug/l
RT: 13.948 min Scan# 4459
Delta R.T. 0.005 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

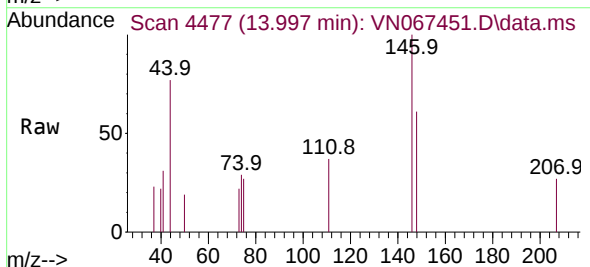
Instrument :
MSVOA_N
ClientSampleId :



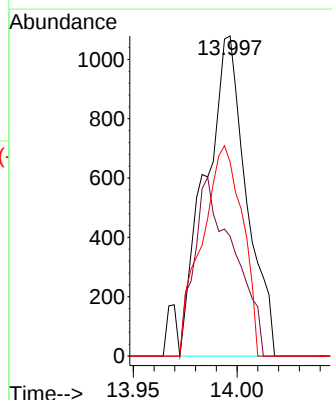
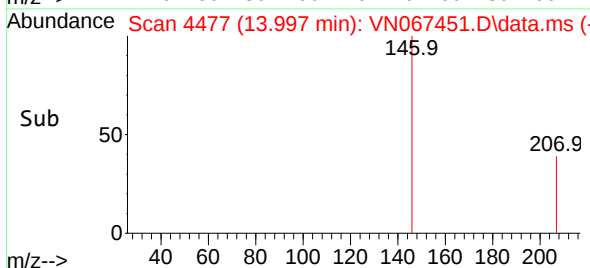
Tgt Ion: 91	Resp: 4188
Ion Ratio	Lower Upper
91 100	
92 55.1	25.7 77.1
134 24.8	11.2 33.6

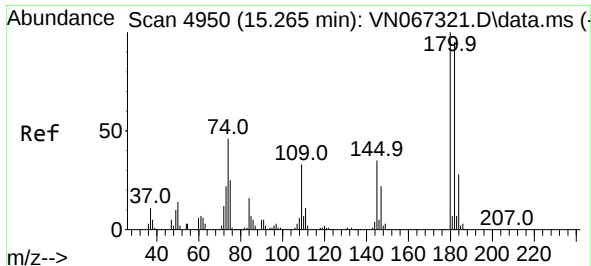


#91
1,2-Dichlorobenzene
Concen: 0.293 ug/l
RT: 13.997 min Scan# 4477
Delta R.T. 0.008 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13



Tgt Ion:146	Resp:	1483	
Ion	Ratio	Lower	Upper
146	100		
111	54.1	24.9	74.6
148	65.0	31.6	95.0

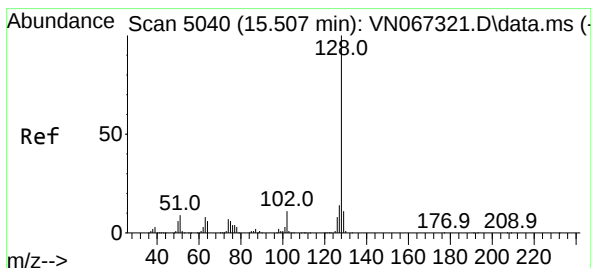
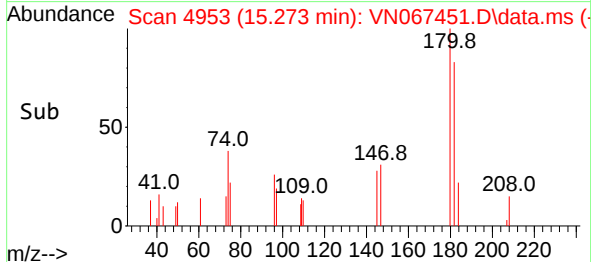
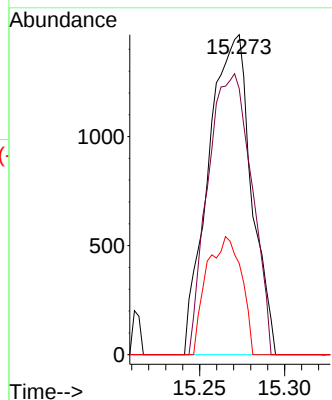
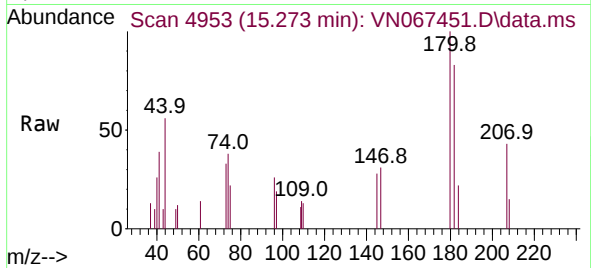




#93
1,2,4-Trichlorobenzene
Concen: 0.976 ug/l
RT: 15.273 min Scan# 4953
Delta R.T. 0.008 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

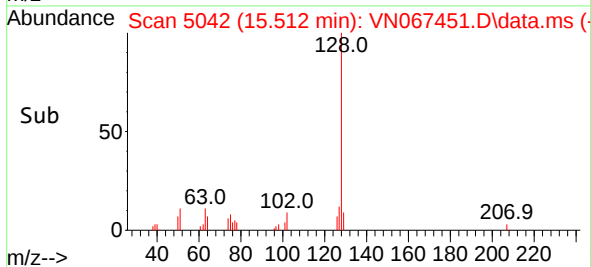
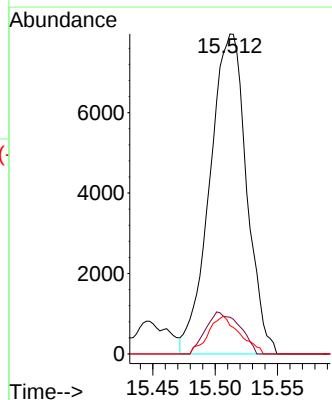
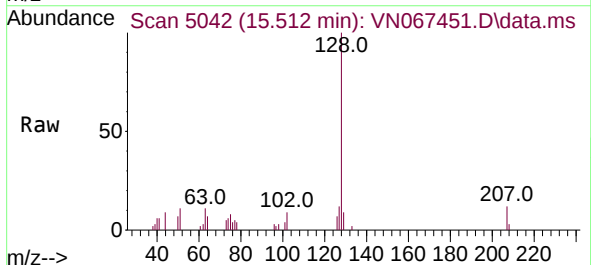
Instrument :
MSVOA_N
ClientSampled :

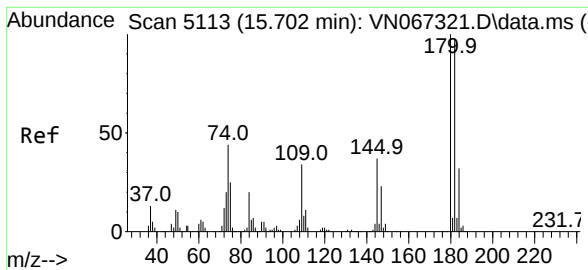
Tgt Ion:180 Resp: 2577
Ion Ratio Lower Upper
180 100
182 89.2 47.5 142.5
145 29.7 17.2 51.6



#95
Naphthalene
Concen: 4.292 ug/l
RT: 15.512 min Scan# 5042
Delta R.T. 0.005 min
Lab File: VN067451.D
Acq: 23 Jun 2021 11:13

Tgt Ion:128 Resp: 16327
Ion Ratio Lower Upper
128 100
127 12.2 10.6 15.8
129 10.1 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 1.361 ug/l
 RT: 15.702 min Scan# 5113
 Delta R.T. 0.000 min
 Lab File: VN067451.D
 Acq: 23 Jun 2021 11:13

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion:180	Resp:	3452
Ion Ratio	Lower	Upper
180	100	
182	87.9	47.8 143.3
145	46.5	18.2 54.6

