

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092421\
 Data File : VN068654.D
 Acq On : 24 Sep 2021 21:40
 Operator : JC/MD
 Sample : M3773-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRE-1508

Quant Time: Sep 25 01:53:10 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N092321W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 23 13:52:37 2021
 Response via : Initial Calibration

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

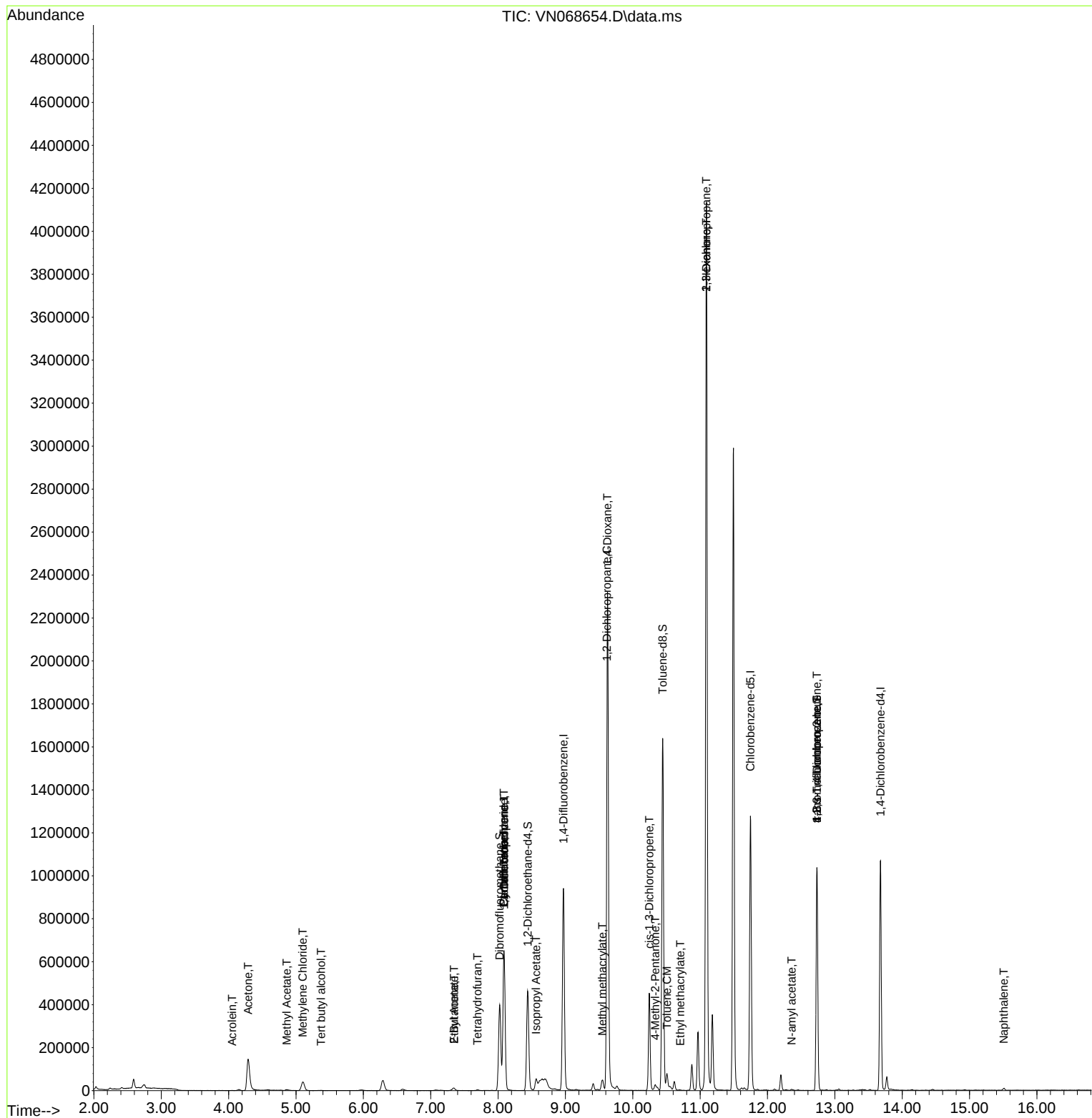
Internal Standards						
1) Pentafluorobenzene	8.088	168	492801	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.971	114	817601	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.747	117	724245	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.678	152	269821	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.440	65	380490	49.467	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	98.940%		
35) Dibromofluoromethane	8.024	113	290218	53.078	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	106.160%		
50) Toluene-d8	10.443	98	1127033	48.604	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	97.200%		
62) 4-Bromofluorobenzene	12.734	95	341511	43.064	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	86.120%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.824	94	67	Below Cal	#	4
6) Chloroethane	2.963	64	216	Below Cal	#	44
11) Tert butyl alcohol	5.374	59	760	0.642	ug/l #	89
13) Acrolein	4.052	56	370	7.793	ug/l #	70
16) Acetone	4.288	43	291930	97.632	ug/l	95
18) Methyl Acetate	4.862	43	8732	0.772	ug/l #	64
20) Methylene Chloride	5.098	84	31222	3.508	ug/l	93
25) 2-Butanone	7.345	43	19977	4.259	ug/l	99
29) Tetrahydrofuran	7.694	42	2532	0.849	ug/l #	76
31) Cyclohexane	8.088	56	12042	1.116	ug/l #	26
36) 1,1-Dichloropropene	8.091	75	40787	4.939	ug/l #	53
37) Ethyl Acetate	7.345	43	19977	2.131	ug/l #	69
38) Carbon Tetrachloride	8.086	117	49648	5.821	ug/l #	17
43) Isopropyl Acetate	8.566	43	60558	3.776	ug/l #	76
45) 1,2-Dichloropropane	9.617	63	2505	0.393	ug/l #	44
48) Methyl methacrylate	9.547	41	12956	1.769	ug/l #	12
49) 1,4-Dioxane	9.622	88	173	1.619	ug/l #	1
51) 4-Methyl-2-Pentanone	10.333	43	16567	1.708	ug/l	94
52) Toluene	10.507	92	30196	1.966	ug/l	96
54) cis-1,3-Dichloropropene	10.245	75	74051	7.345	ug/l #	63
56) Ethyl methacrylate	10.703	69	211	0.725	ug/l #	1
57) 1,3-Dichloropropane	11.092	76	40976	3.942	ug/l #	43
59) 2-Hexanone	11.092	43	667768	95.747	ug/l #	53
74) N-amyl acetate	12.358	43	3410	0.330	ug/l #	49
76) 1,2,3-Trichloropropane	12.734	75	190447	28.546	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.734	75	190447	80.636	ug/l #	6
95) Naphthalene	15.507	128	8939	2.263	ug/l #	93

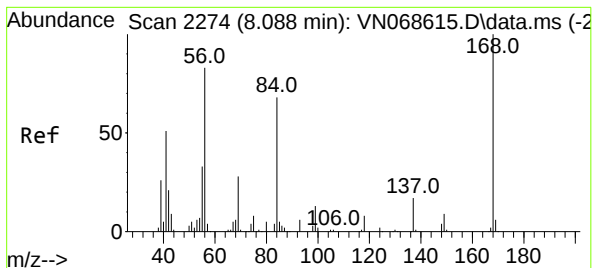
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Sep 23 13:52:37 2021
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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: VN068654.D

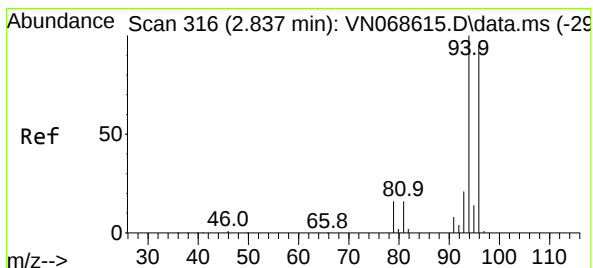
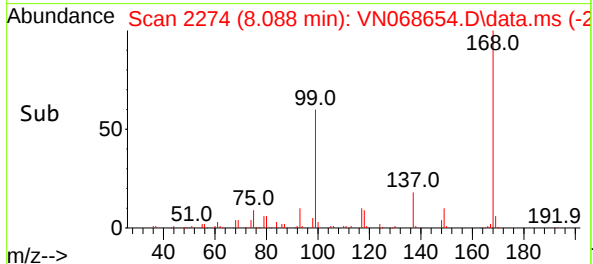
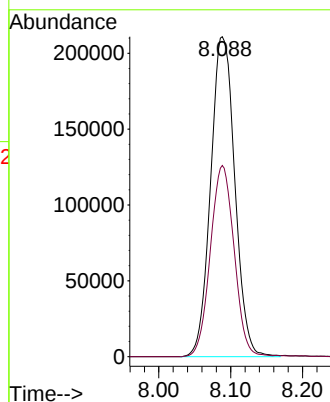
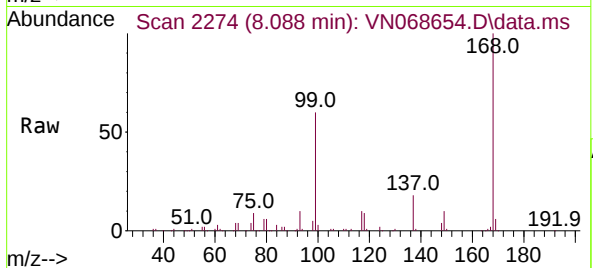
Acq: 24 Sep 2021 21:40

Tgt Ion:168 Resp: 492801

Ion Ratio Lower Upper

168 100

99 59.8 62.9 94.3#



#5

Bromomethane

Concen: Below Cal

RT: 2.824 min Scan# 311

Delta R.T. -0.013 min

Lab File: VN068654.D

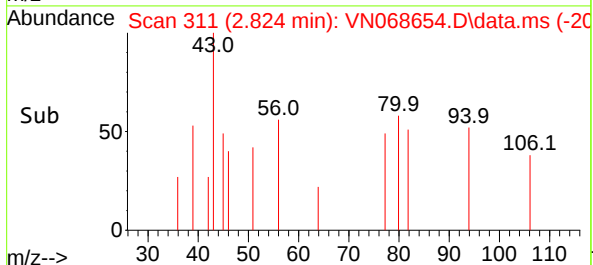
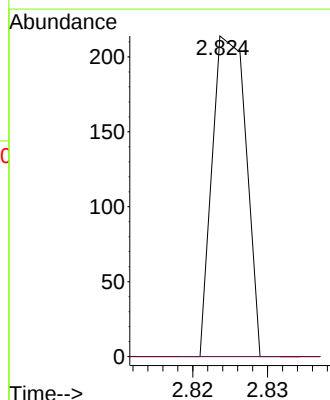
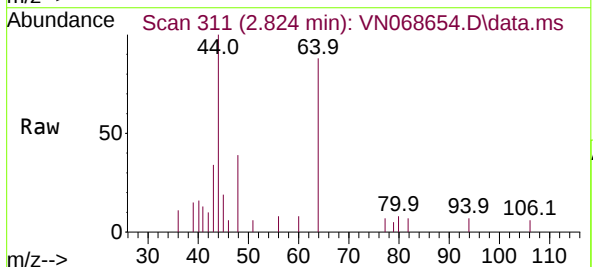
Acq: 24 Sep 2021 21:40

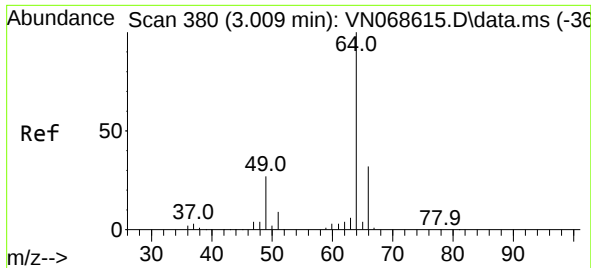
Tgt Ion: 94 Resp: 67

Ion Ratio Lower Upper

94 100

96 0.0 73.7 110.5#

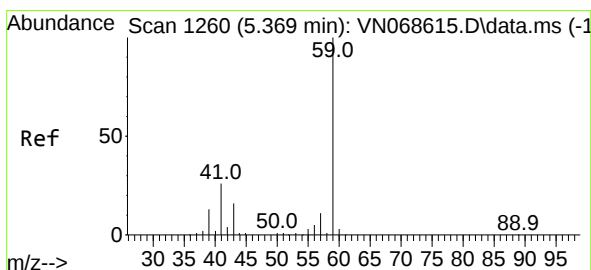
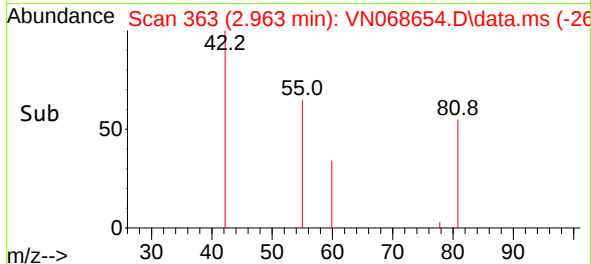
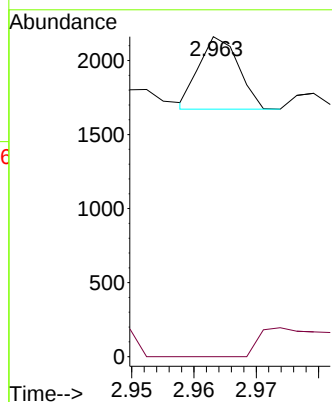
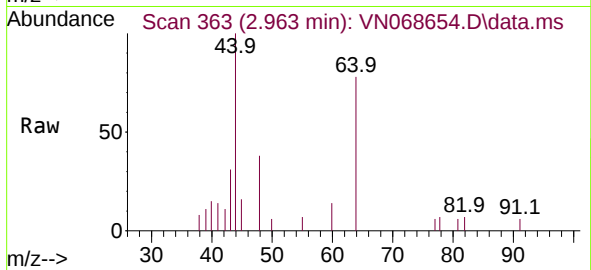




#6
Chloroethane
Concen: Below Cal
RT: 2.963 min Scan# 363
Delta R.T. -0.046 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

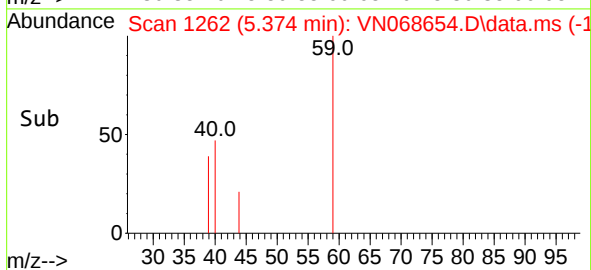
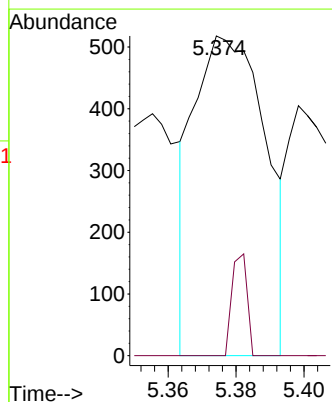
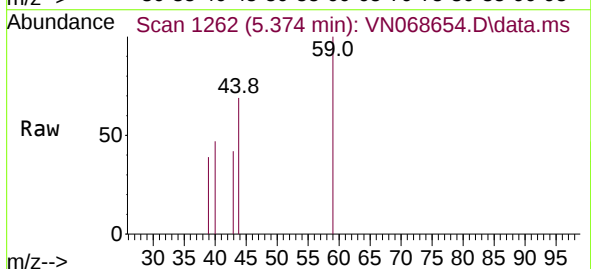
Instrument :
MSVOA_N
ClientSampleId :
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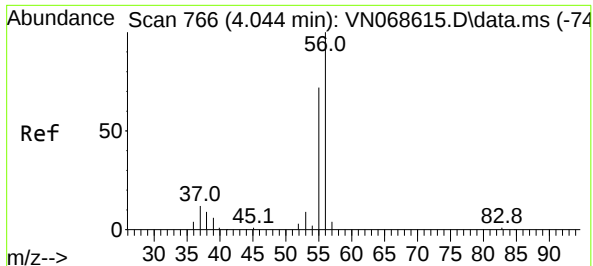
Tgt Ion: 64 Resp: 216
Ion Ratio Lower Upper
64 100
66 0.0 24.7 37.1#



#11
Tert butyl alcohol
Concen: 0.642 ug/l
RT: 5.374 min Scan# 1262
Delta R.T. 0.005 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

Tgt Ion: 59 Resp: 760
Ion Ratio Lower Upper
59 100
57 6.7 8.7 13.1#

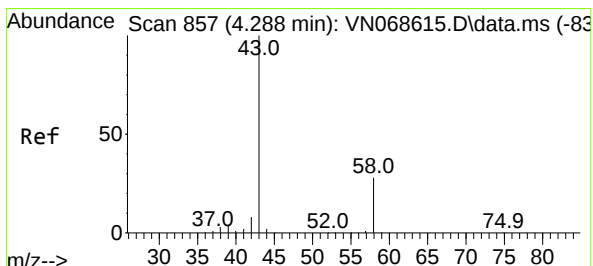
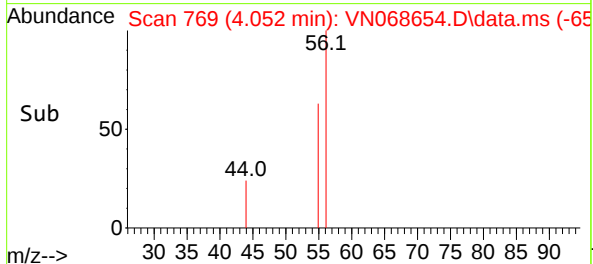
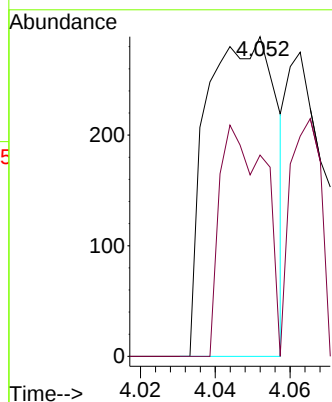
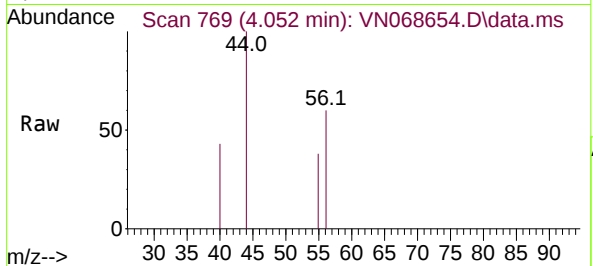




#13
Acrolein
Concen: 7.793 ug/l
RT: 4.052 min Scan# 769
Delta R.T. 0.008 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

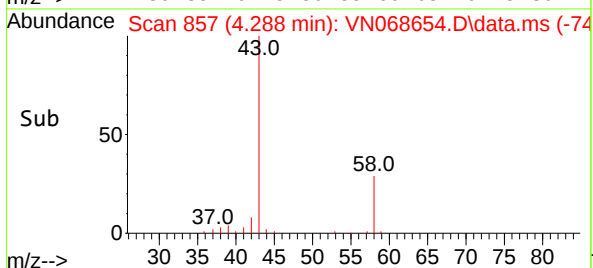
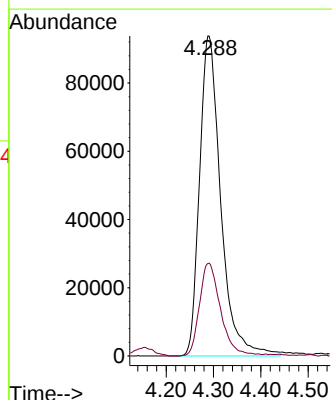
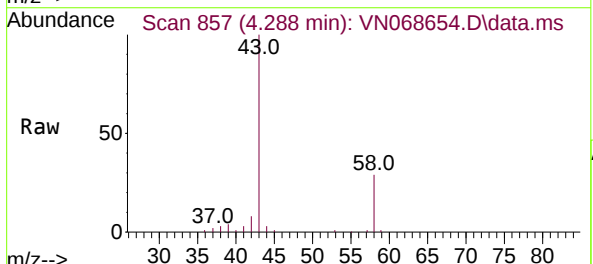
Instrument :
MSVOA_N
ClientSampleId :
TRE-1508

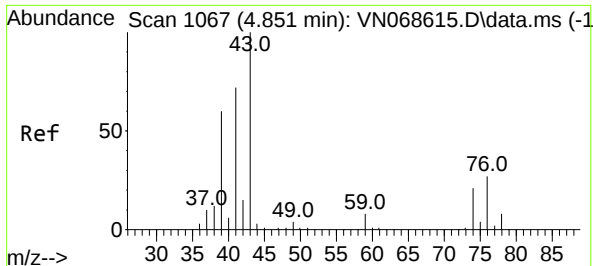
Tgt Ion: 56 Resp: 370
Ion Ratio Lower Upper
56 100
55 47.0 57.4 86.0#



#16
Acetone
Concen: 97.632 ug/l
RT: 4.288 min Scan# 857
Delta R.T. 0.000 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

Tgt Ion: 43 Resp: 291930
Ion Ratio Lower Upper
43 100
58 28.9 21.2 31.8





#18

Methyl Acetate

Concen: 0.772 ug/l

RT: 4.862 min Scan# 1071

Delta R.T. 0.011 min

Lab File: VN068654.D

Acq: 24 Sep 2021 21:40

Tgt Ion: 43 Resp: 8732

Ion Ratio Lower Upper

43 100

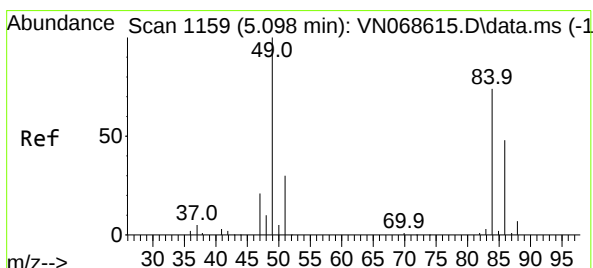
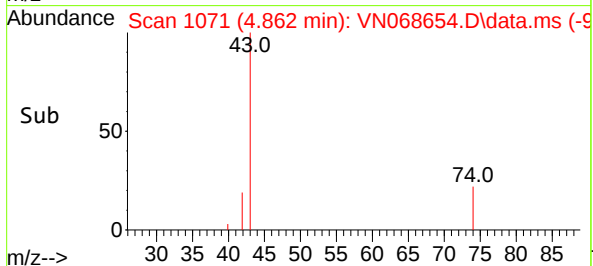
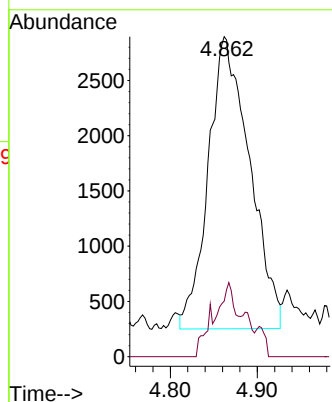
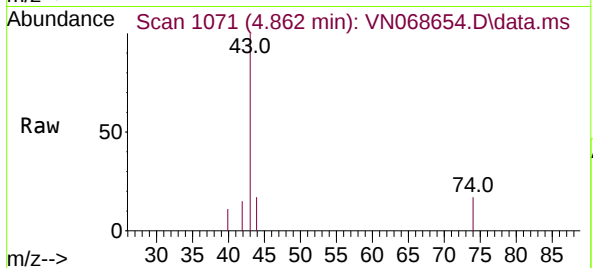
74 4.6 17.4 26.0#

Instrument :

MSVOA_N

ClientSampled :

TRE-1508



#20

Methylene Chloride

Concen: 3.508 ug/l

RT: 5.098 min Scan# 1159

Delta R.T. -0.000 min

Lab File: VN068654.D

Acq: 24 Sep 2021 21:40

Tgt Ion: 84 Resp: 31222

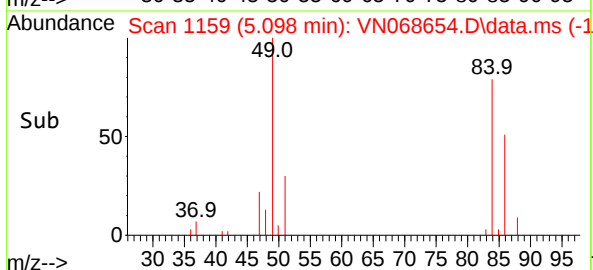
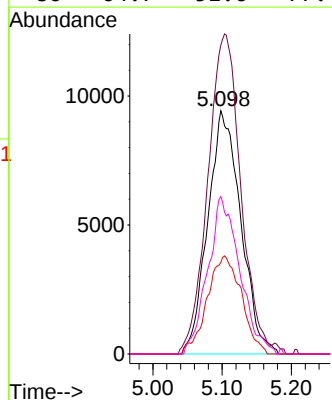
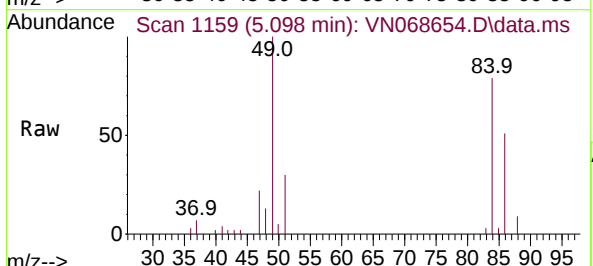
Ion Ratio Lower Upper

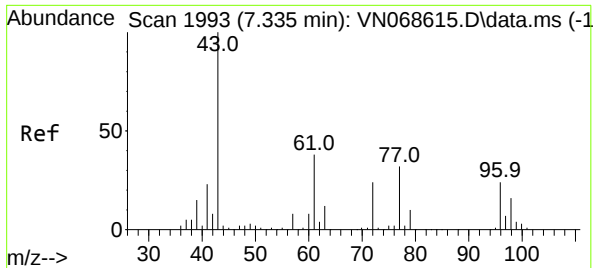
84 100

49 125.1 110.9 166.3

51 37.7 32.6 49.0

86 64.7 51.6 77.4

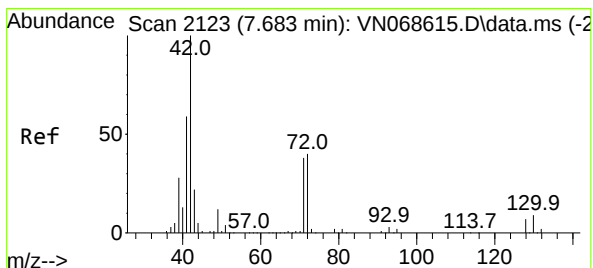
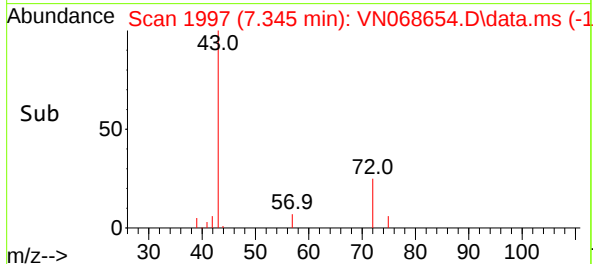
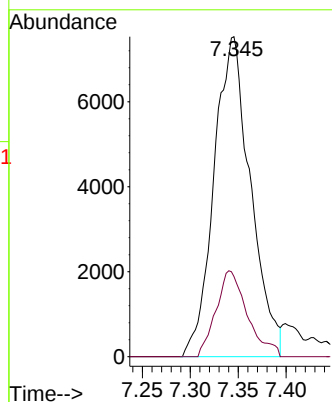
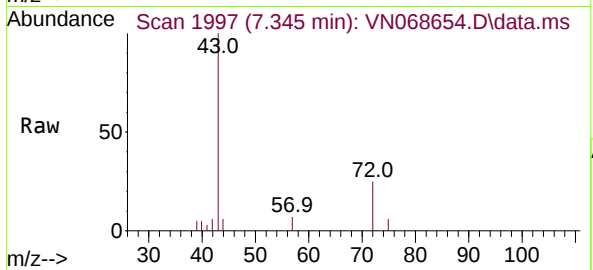




#25
2-Butanone
Concen: 4.259 ug/l
RT: 7.345 min Scan# 1997
Delta R.T. 0.010 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

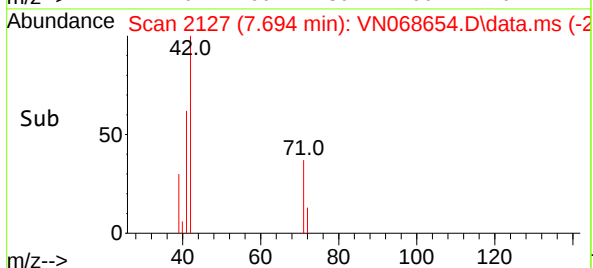
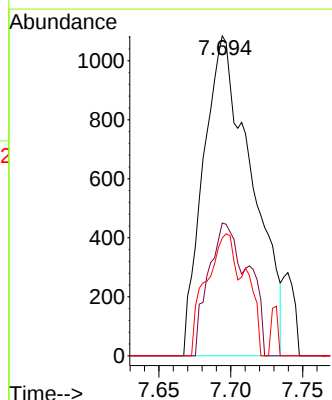
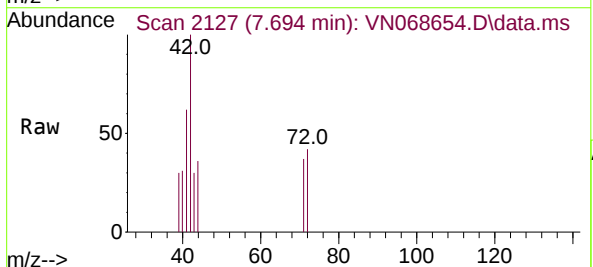
Instrument :
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ClientSampled :
TRE-1508

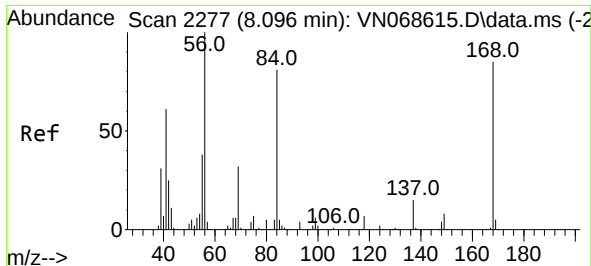
Tgt Ion: 43 Resp: 19977
Ion Ratio Lower Upper
43 100
72 25.1 19.7 29.5



#29
Tetrahydrofuran
Concen: 0.849 ug/l
RT: 7.694 min Scan# 2127
Delta R.T. 0.011 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

Tgt Ion: 42 Resp: 2532
Ion Ratio Lower Upper
42 100
72 25.2 32.8 49.2#
71 24.8 31.2 46.8#

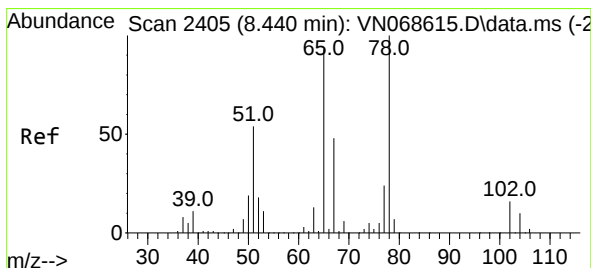
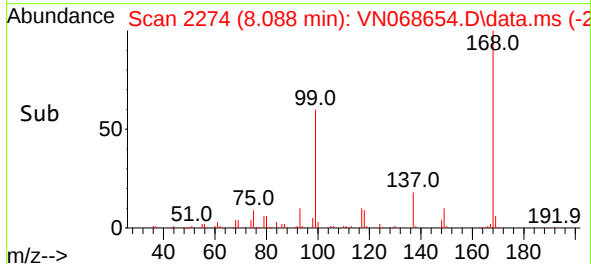
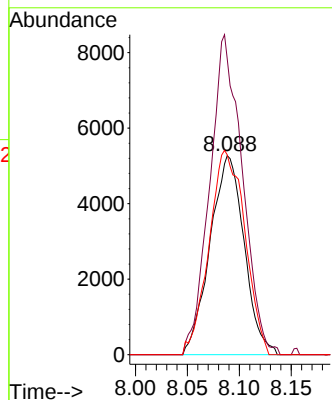
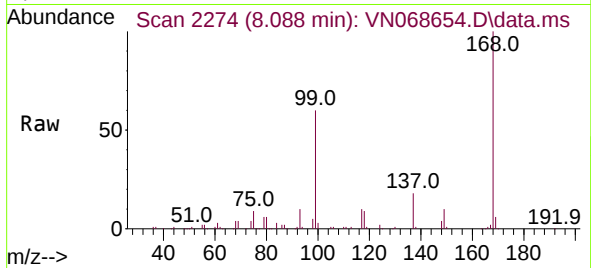




#31
Cyclohexane
Concen: 1.116 ug/l
RT: 8.088 min Scan# 2274
Delta R.T. -0.008 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

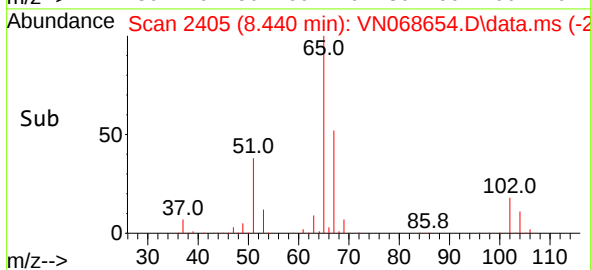
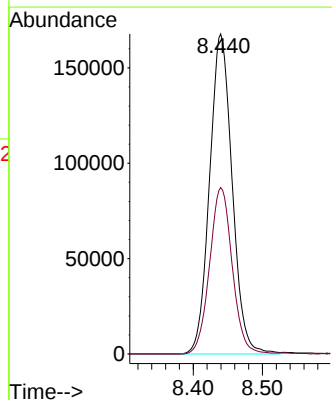
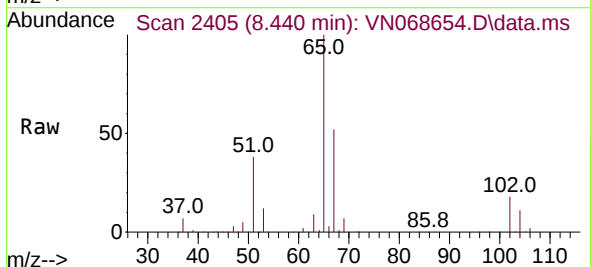
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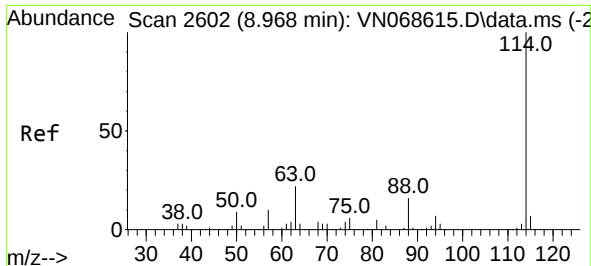
Tgt Ion: 56 Resp: 12042
Ion Ratio Lower Upper
56 100
69 148.6 27.3 40.9#
84 100.4 64.9 97.3#



#33
1,2-Dichloroethane-d4
Concen: 49.467 ug/l
RT: 8.440 min Scan# 2405
Delta R.T. -0.000 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

Tgt Ion: 65 Resp: 380490
Ion Ratio Lower Upper
65 100
67 52.0 0.0 98.6

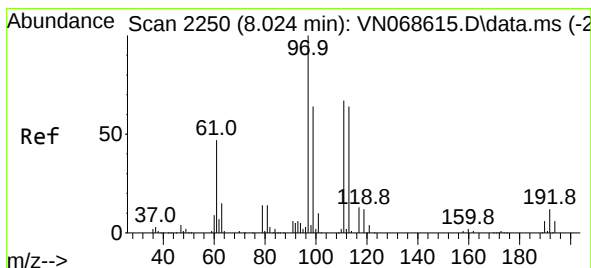
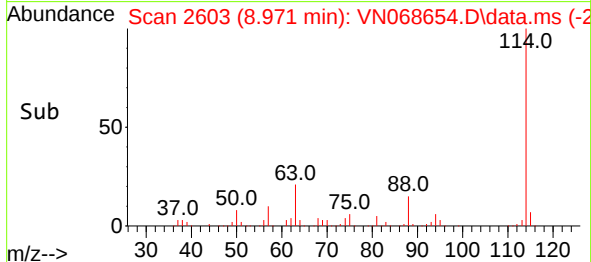
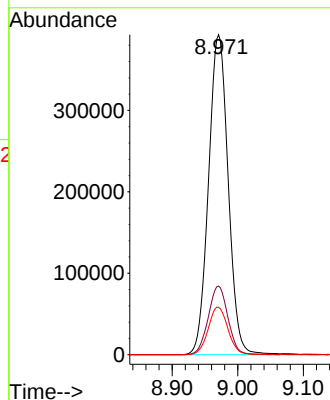
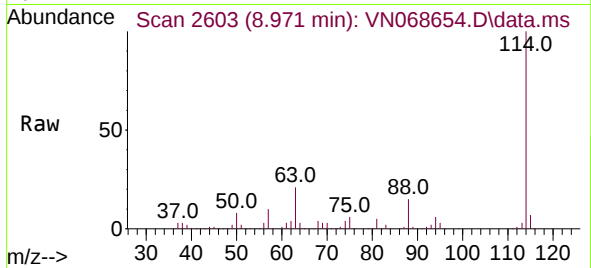




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.971 min Scan# 2603
Delta R.T. 0.003 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

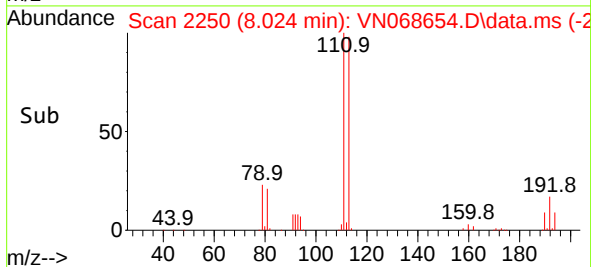
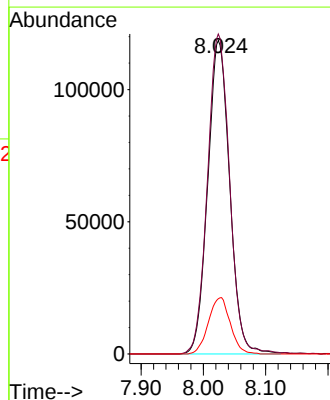
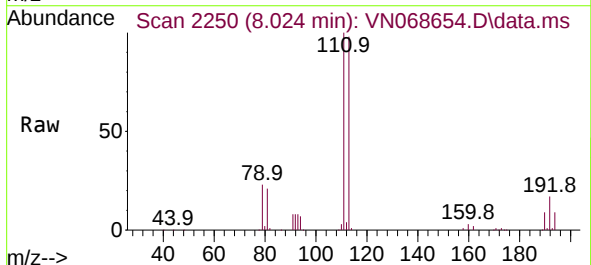
Instrument :
MSVOA_N
ClientSampled :
TRE-1508

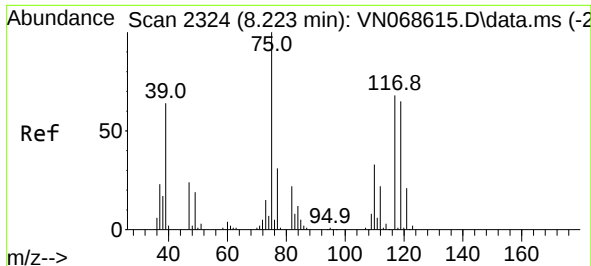
Tgt Ion:114 Resp: 817601
Ion Ratio Lower Upper
114 100
63 21.5 0.0 49.0
88 14.8 0.0 36.6



#35
Dibromofluoromethane
Concen: 53.078 ug/l
RT: 8.024 min Scan# 2250
Delta R.T. -0.000 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

Tgt Ion:113 Resp: 290218
Ion Ratio Lower Upper
113 100
111 102.5 83.8 125.8
192 17.9 13.4 20.0

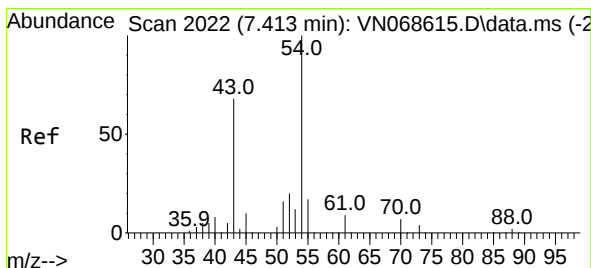
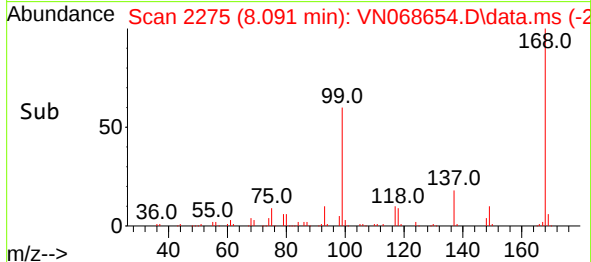
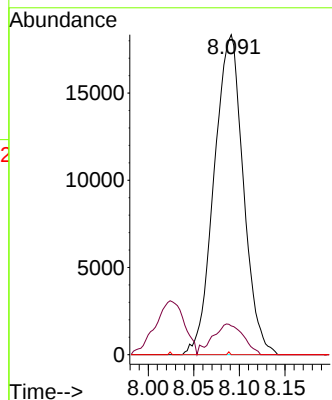
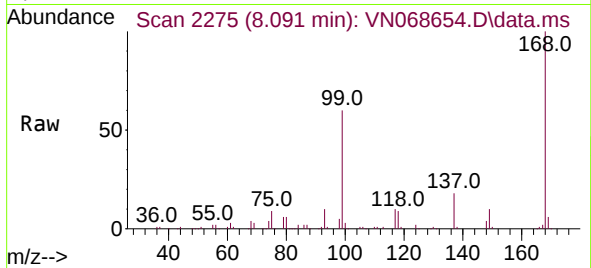




#36
 1,1-Dichloropropene
 Concen: 4.939 ug/l
 RT: 8.091 min Scan# 2275
 Delta R.T. -0.132 min
 Lab File: VN068654.D
 Acq: 24 Sep 2021 21:40

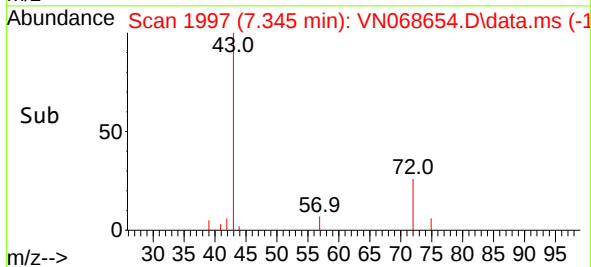
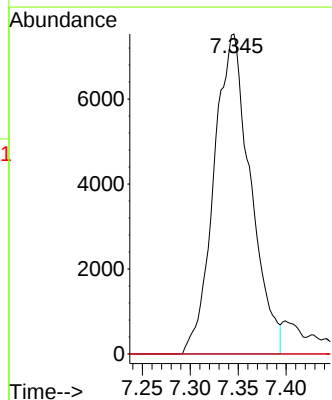
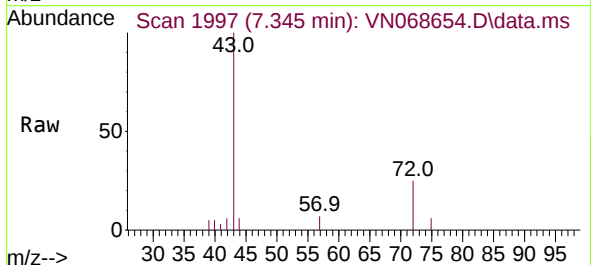
Instrument :
 MSVOA_N
 ClientSampled :
 TRE-1508

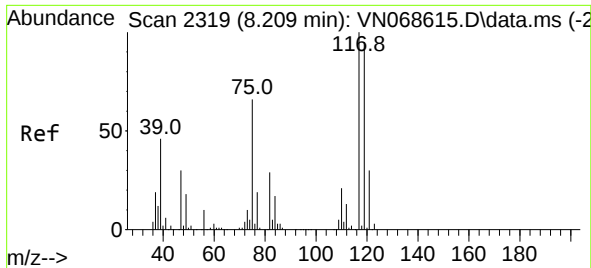
Tgt Ion: 75 Resp: 40787
 Ion Ratio Lower Upper
 75 100
 110 10.1 15.7 47.0#
 77 0.1 24.6 37.0#



#37
 Ethyl Acetate
 Concen: 2.131 ug/l
 RT: 7.345 min Scan# 1997
 Delta R.T. -0.068 min
 Lab File: VN068654.D
 Acq: 24 Sep 2021 21:40

Tgt Ion: 43 Resp: 19977
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 16.0#
 70 0.0 8.1 12.1#

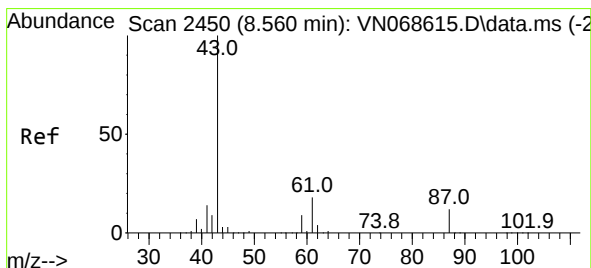
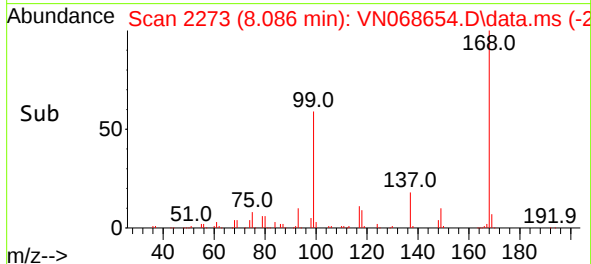
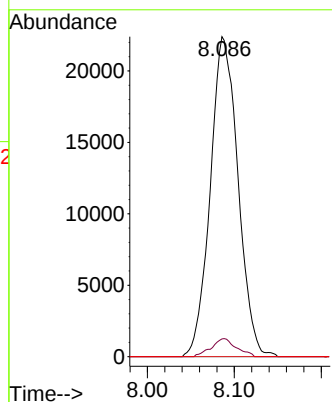
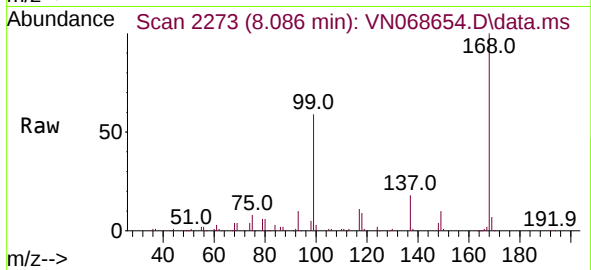




#38
Carbon Tetrachloride
Concen: 5.821 ug/l
RT: 8.086 min Scan# 2273
Delta R.T. -0.123 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

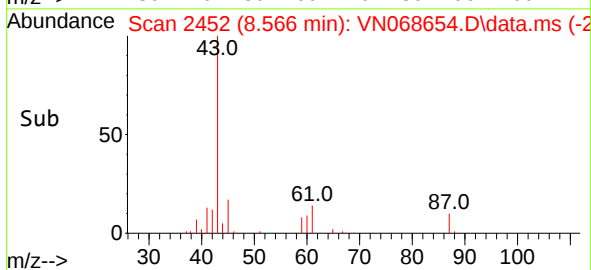
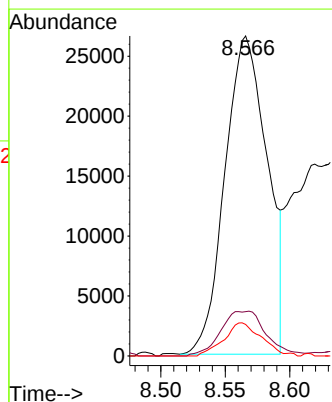
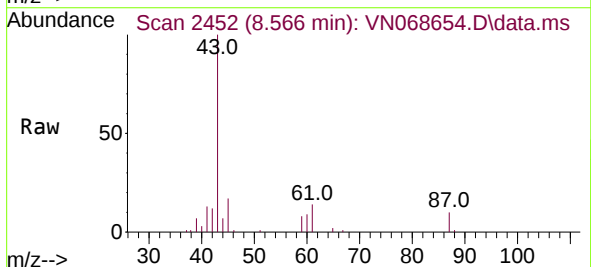
Instrument :
MSVOA_N
ClientSampled :
TRE-1508

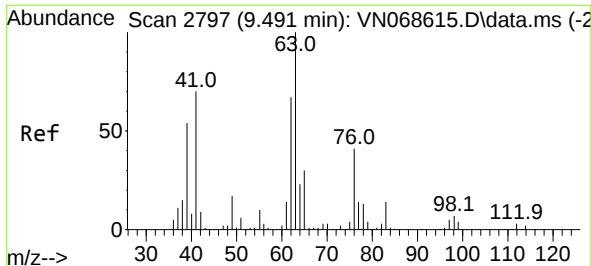
Tgt Ion:117 Resp: 49648
Ion Ratio Lower Upper
117 100
119 5.5 75.4 113.2#
121 0.0 23.5 35.3#



#43
Isopropyl Acetate
Concen: 3.776 ug/l
RT: 8.566 min Scan# 2452
Delta R.T. 0.006 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

Tgt Ion: 43 Resp: 60558
Ion Ratio Lower Upper
43 100
61 7.6 19.0 28.4#
87 9.3 9.5 14.3#

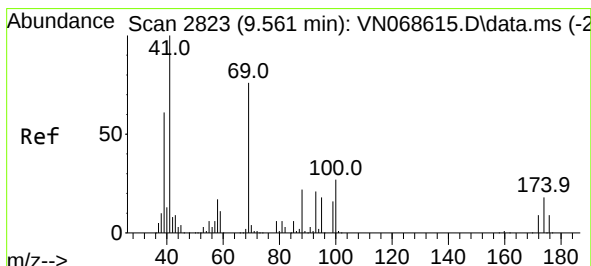
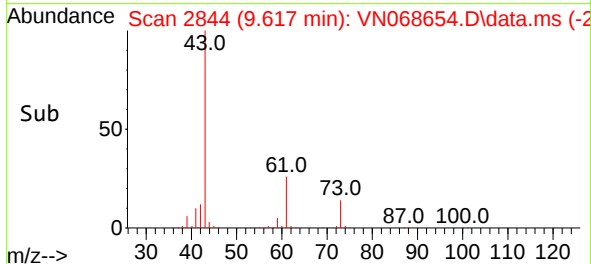
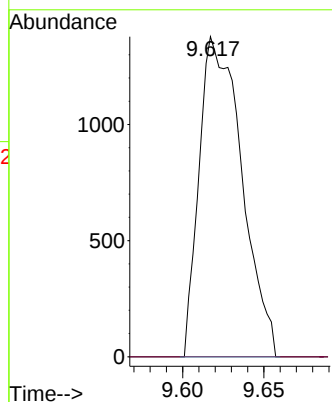
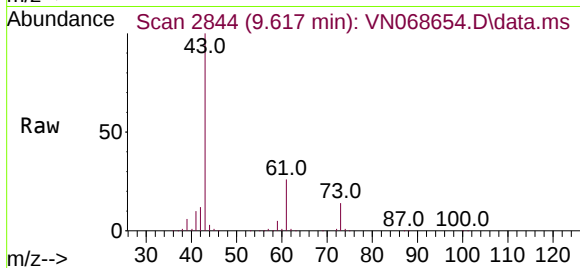




#45
1,2-Dichloropropane
Concen: 0.393 ug/l
RT: 9.617 min Scan# 2844
Delta R.T. 0.126 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

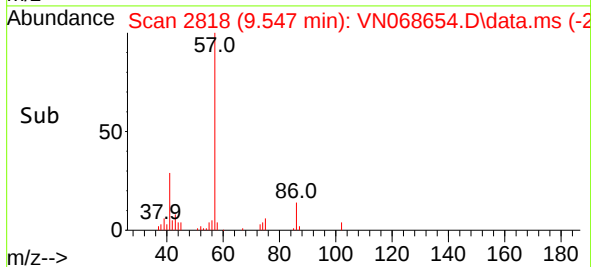
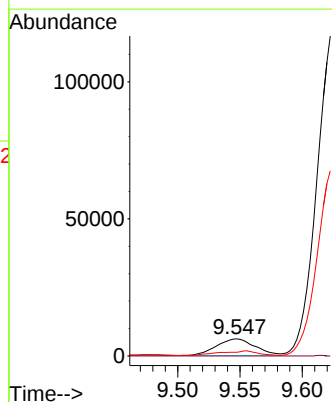
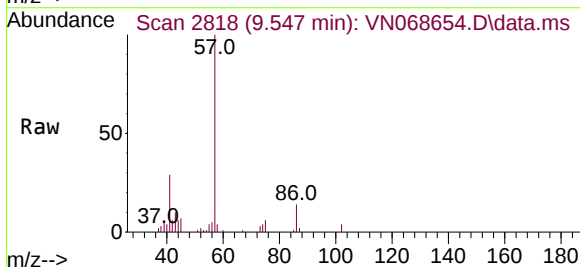
Instrument :
MSVOA_N
ClientSampled :
TRE-1508

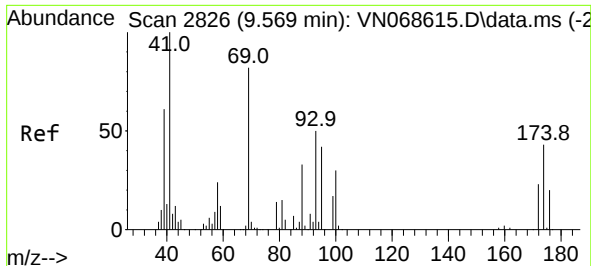
Tgt Ion: 63 Resp: 2505
Ion Ratio Lower Upper
63 100
65 0.0 24.3 36.5#



#48
Methyl methacrylate
Concen: 1.769 ug/l
RT: 9.547 min Scan# 2818
Delta R.T. -0.014 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

Tgt Ion: 41 Resp: 12956
Ion Ratio Lower Upper
41 100
69 0.0 64.6 96.8#
39 0.0 53.3 79.9#





#49

1,4-Dioxane

Concen: 1.619 ug/l

RT: 9.622 min Scan# 2846

Delta R.T. 0.053 min

Lab File: VN068654.D

Acq: 24 Sep 2021 21:40

Tgt Ion: 88 Resp: 173

Ion Ratio Lower Upper

88 100

43 1361205.2 28.8 43.2#

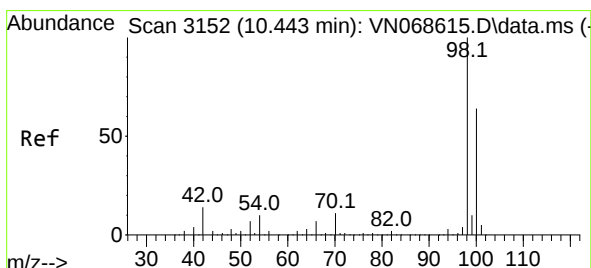
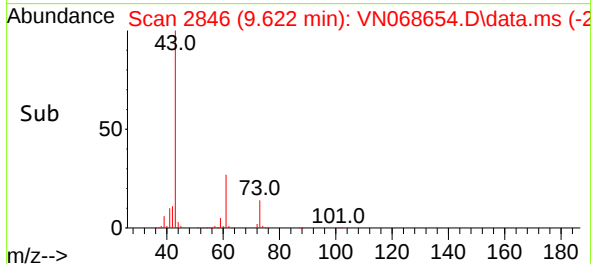
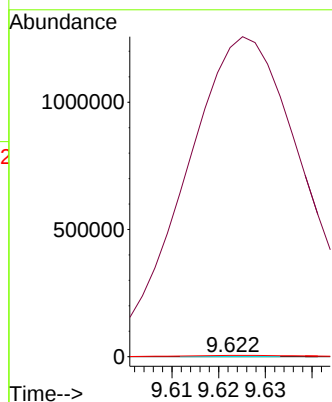
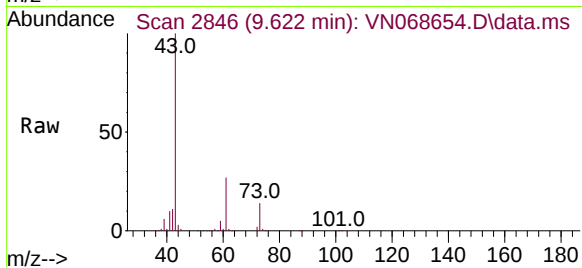
58 5515.6 60.4 90.6#

Instrument :

MSVOA_N

ClientSampleId :

TRE-1508



#50

Toluene-d8

Concen: 48.604 ug/l

RT: 10.443 min Scan# 3152

Delta R.T. 0.000 min

Lab File: VN068654.D

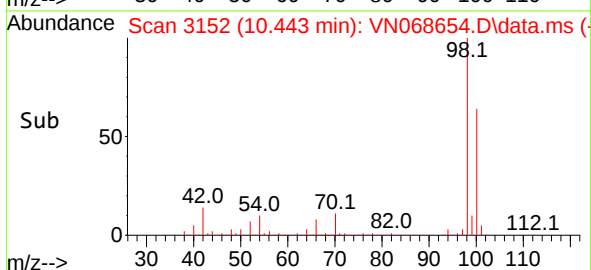
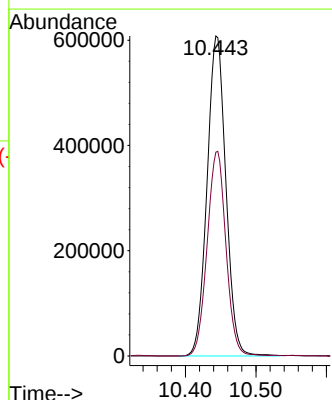
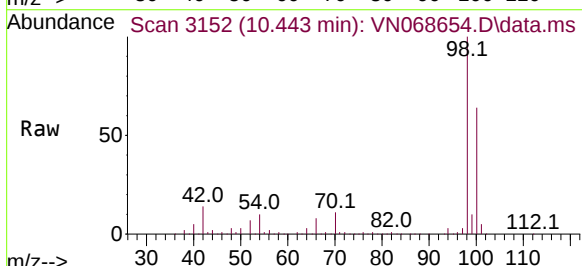
Acq: 24 Sep 2021 21:40

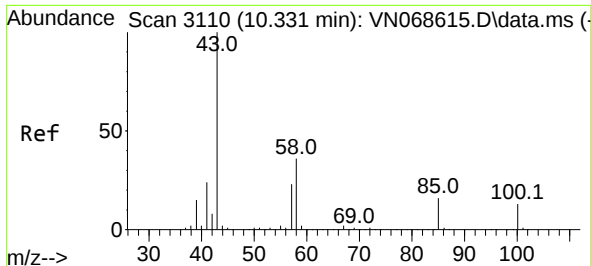
Tgt Ion: 98 Resp: 1127033

Ion Ratio Lower Upper

98 100

100 63.8 51.7 77.5

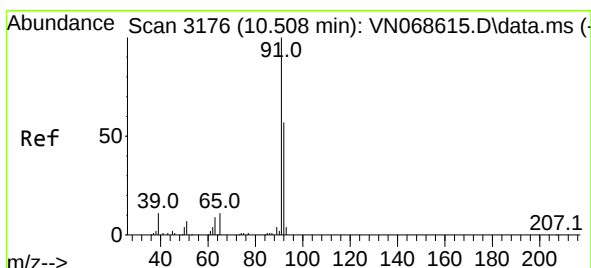
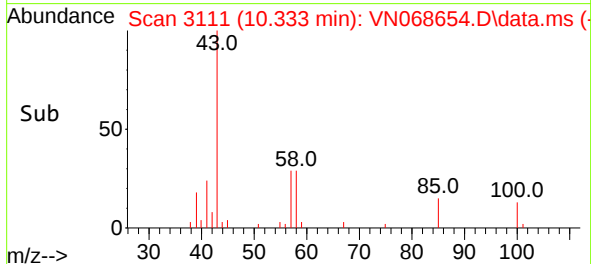
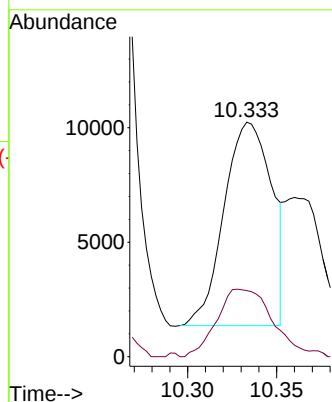
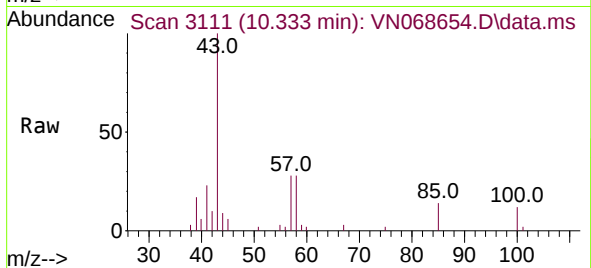




#51
4-Methyl-2-Pentanone
Concen: 1.708 ug/l
RT: 10.333 min Scan# 3111
Delta R.T. 0.002 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

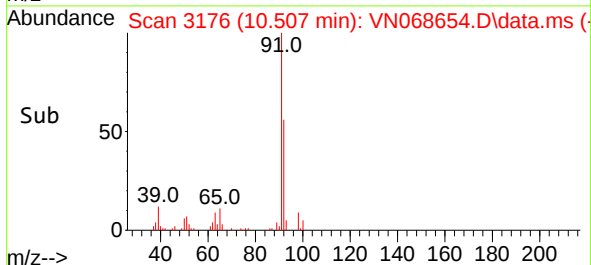
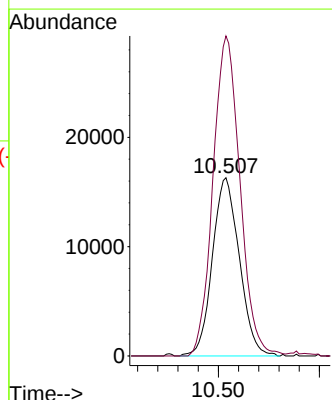
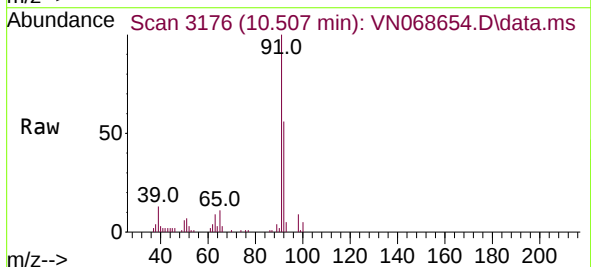
Instrument :
MSVOA_N
ClientSampled :
TRE-1508

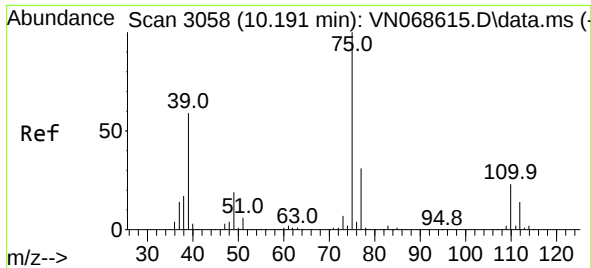
Tgt Ion: 43 Resp: 16567
Ion Ratio Lower Upper
43 100
58 39.0 28.6 43.0



#52
Toluene
Concen: 1.966 ug/l
RT: 10.507 min Scan# 3176
Delta R.T. -0.001 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

Tgt Ion: 92 Resp: 30196
Ion Ratio Lower Upper
92 100
91 180.0 139.6 209.4

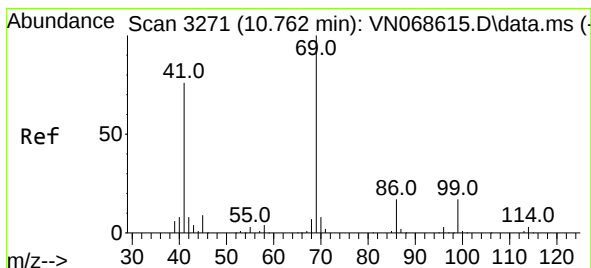
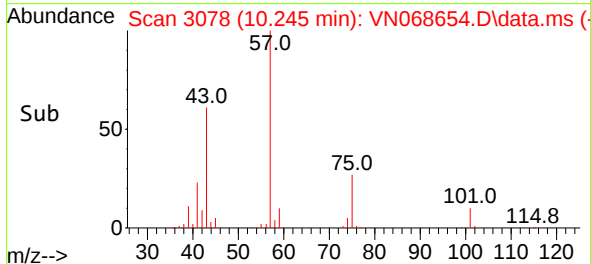
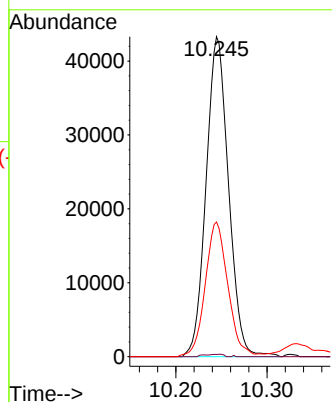
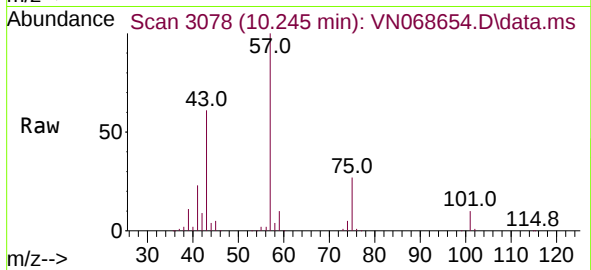




#54
 cis-1,3-Dichloropropene
 Concen: 7.345 ug/l
 RT: 10.245 min Scan# 3078
 Delta R.T. 0.054 min
 Lab File: VN068654.D
 Acq: 24 Sep 2021 21:40

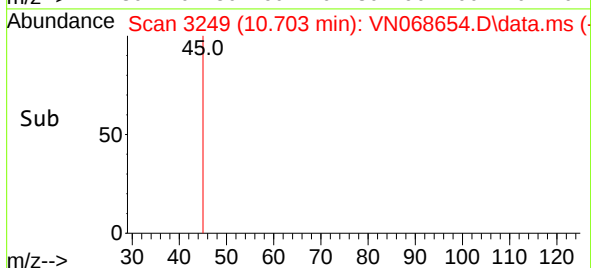
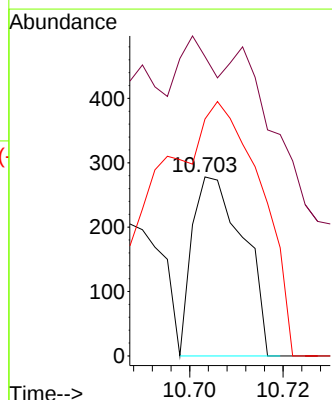
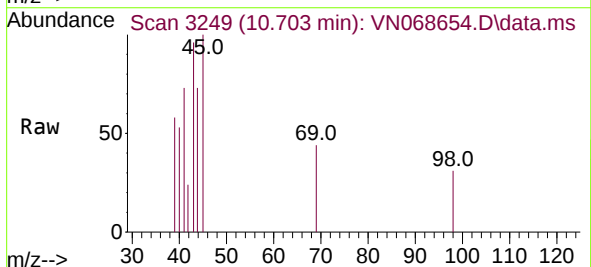
Instrument :
 MSVOA_N
 ClientSampleId :
 TRE-1508

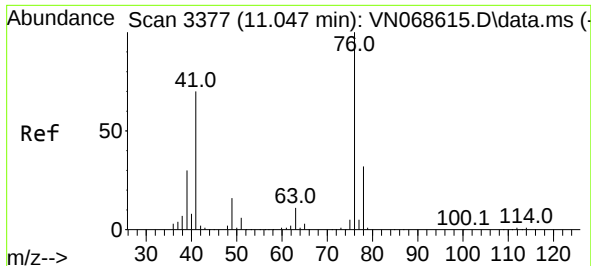
Tgt Ion: 75 Resp: 74051
 Ion Ratio Lower Upper
 75 100
 77 0.7 24.6 37.0#
 39 41.7 50.7 76.1#



#56
 Ethyl methacrylate
 Concen: 0.725 ug/l
 RT: 10.703 min Scan# 3249
 Delta R.T. -0.059 min
 Lab File: VN068654.D
 Acq: 24 Sep 2021 21:40

Tgt Ion: 69 Resp: 211
 Ion Ratio Lower Upper
 69 100
 41 0.0 58.6 88.0#
 39 311.8 38.3 57.5#

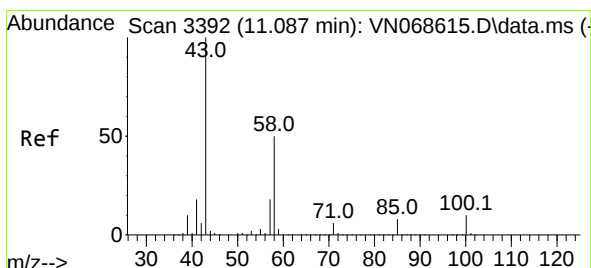
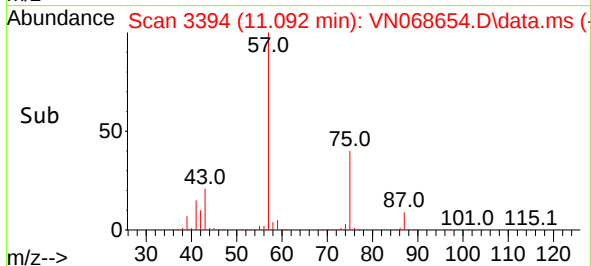
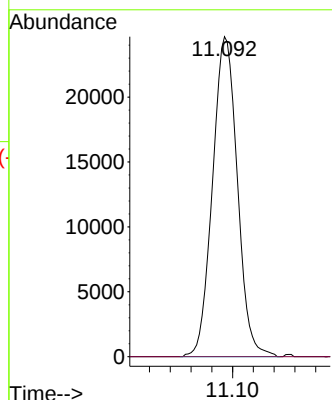
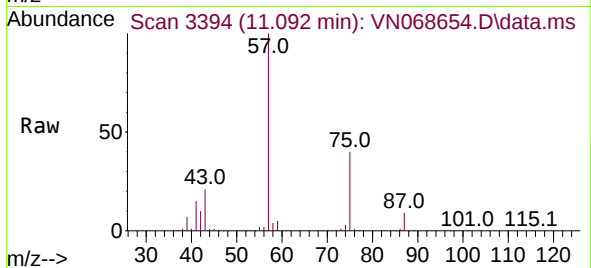




#57
1,3-Dichloropropane
Concen: 3.942 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.045 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

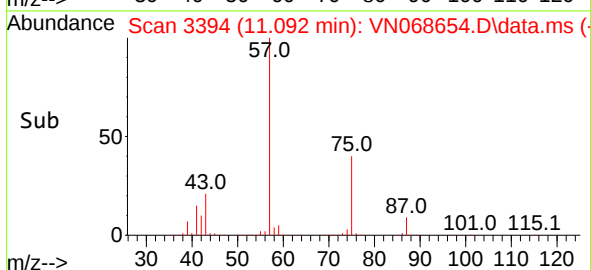
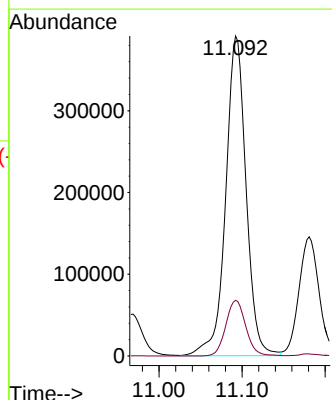
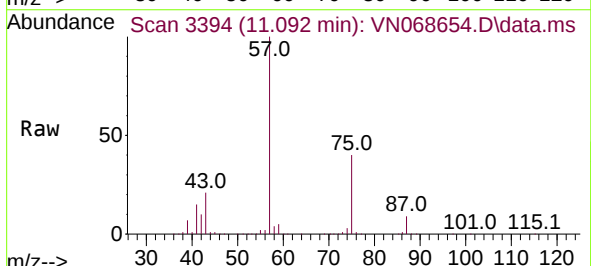
Instrument :
MSVOA_N
ClientSampled :
TRE-1508

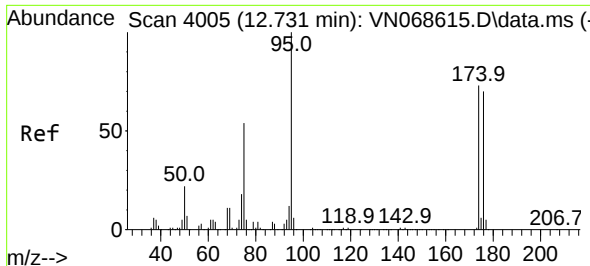
Tgt Ion: 76 Resp: 40976
Ion Ratio Lower Upper
76 100
78 0.0 25.7 38.5#



#59
2-Hexanone
Concen: 95.747 ug/l
RT: 11.092 min Scan# 3394
Delta R.T. 0.005 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

Tgt Ion: 43 Resp: 667768
Ion Ratio Lower Upper
43 100
58 17.1 24.7 74.1#

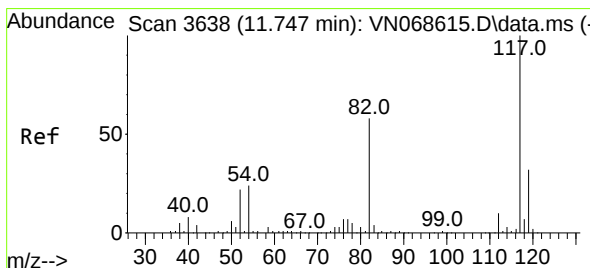
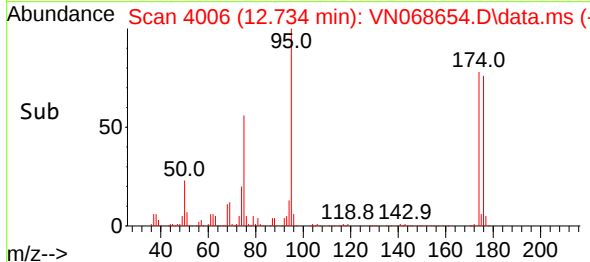
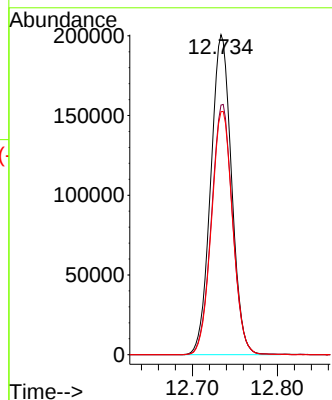
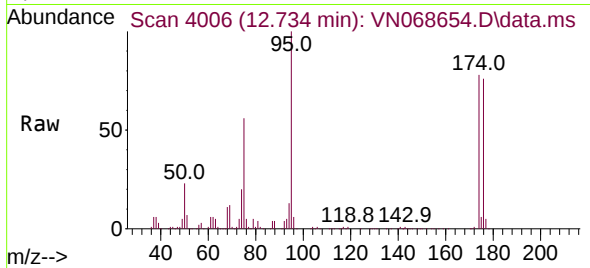




#62
4-Bromofluorobenzene
Concen: 43.064 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.003 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

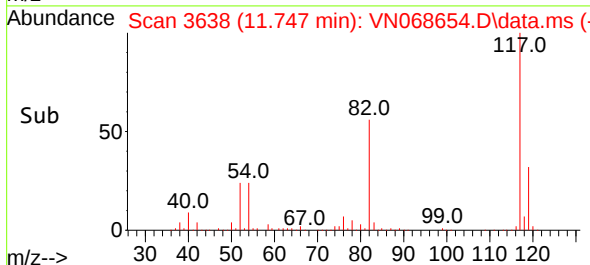
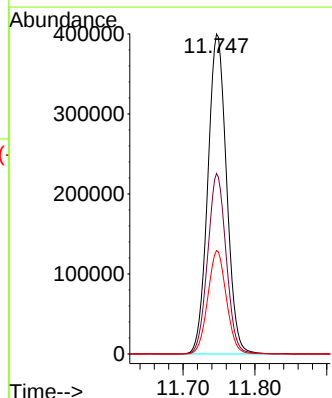
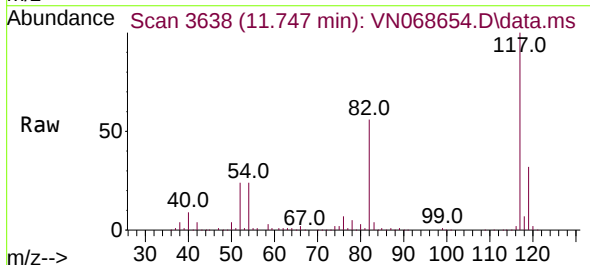
Instrument :
MSVOA_N
ClientSampleId :
TRE-1508

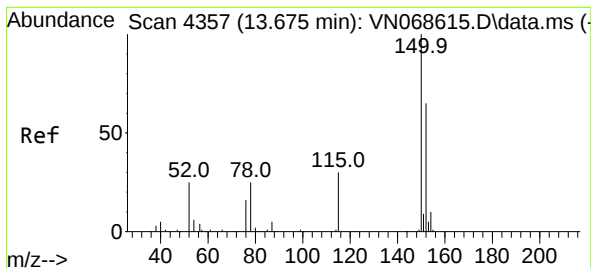
Tgt Ion: 95 Resp: 341511
Ion Ratio Lower Upper
95 100
174 79.2 0.0 122.0
176 77.4 0.0 117.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.747 min Scan# 3638
Delta R.T. -0.000 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

Tgt Ion: 117 Resp: 724245
Ion Ratio Lower Upper
117 100
82 56.4 53.1 79.7
119 32.3 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.678 min Scan# 4358

Delta R.T. 0.003 min

Lab File: VN068654.D

Acq: 24 Sep 2021 21:40

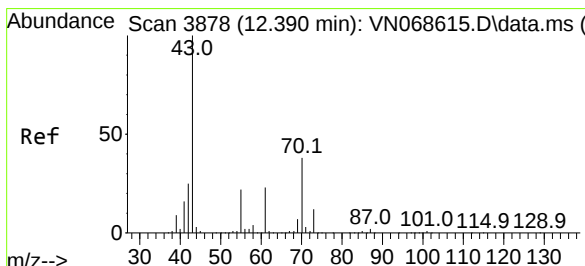
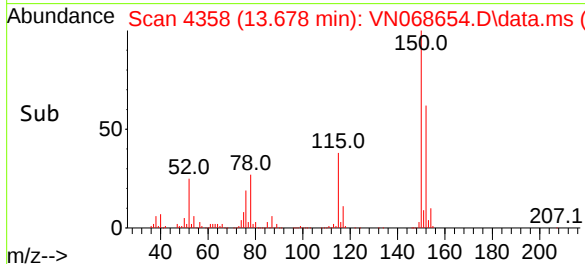
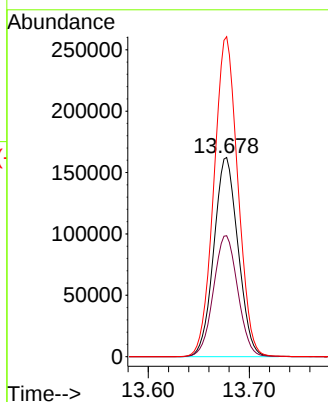
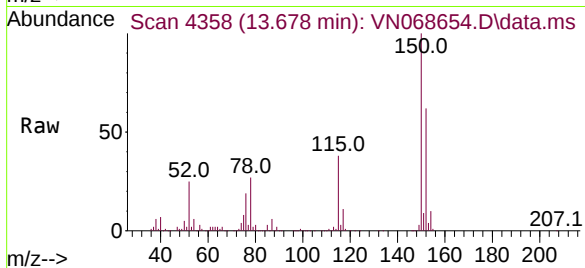
Instrument :

MSVOA_N

ClientSampleId :

TRE-1508

Tgt Ion:	152	Resp:	269821
Ion	Ratio	Lower	Upper
152	100		
115	61.1	36.1	108.5
150	159.2	0.0	351.8



#74

N-ethyl acetate

Concen: 0.330 ug/l

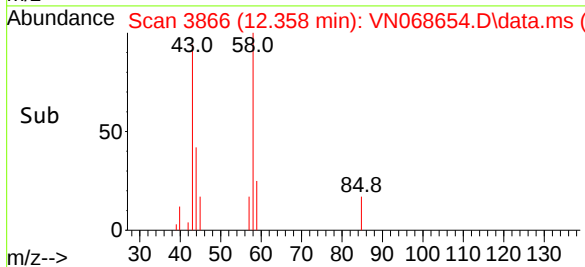
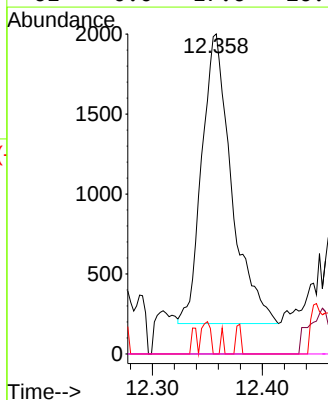
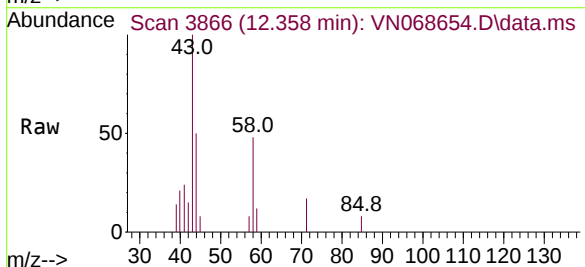
RT: 12.358 min Scan# 3866

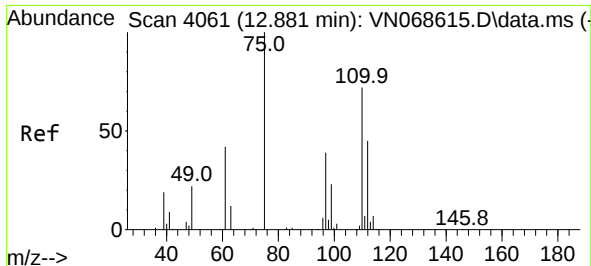
Delta R.T. -0.032 min

Lab File: VN068654.D

Acq: 24 Sep 2021 21:40

Tgt Ion:	43	Resp:	3410
Ion	Ratio	Lower	Upper
43	100		
70	0.0	29.4	44.2#
55	3.3	17.0	25.4#
61	0.0	17.6	26.4#

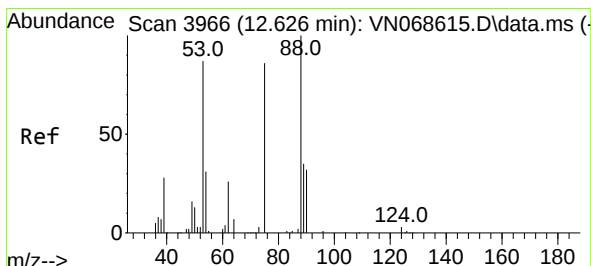
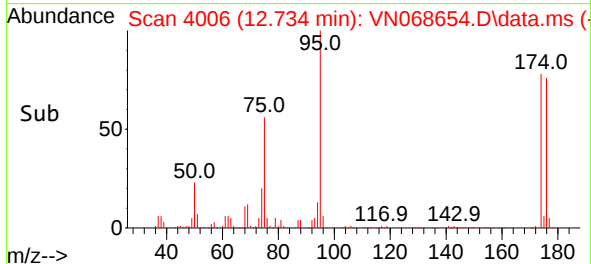
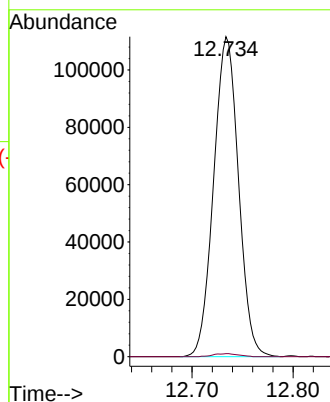
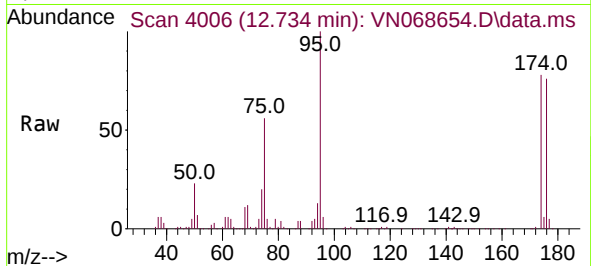




#76
1,2,3-Trichloropropane
Concen: 28.546 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. -0.147 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

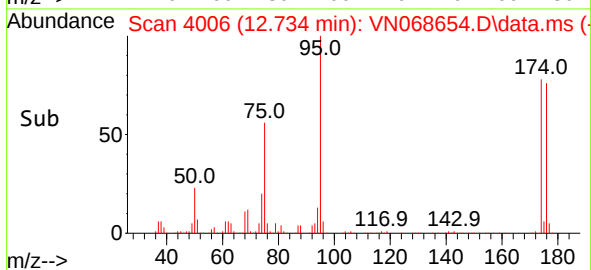
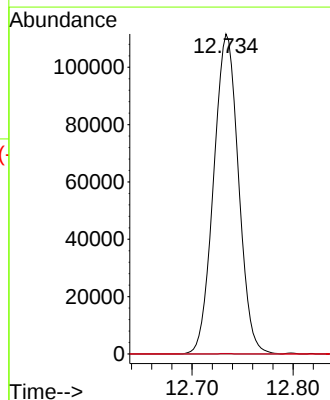
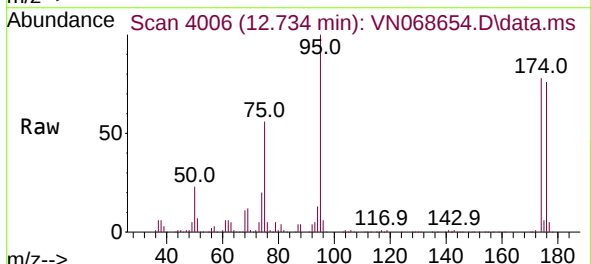
Instrument :
MSVOA_N
ClientSampleId :
TRE-1508

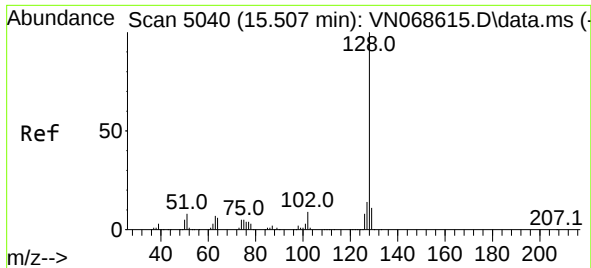
Tgt Ion: 75 Resp: 190447
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 80.636 ug/l
RT: 12.734 min Scan# 4006
Delta R.T. 0.108 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

Tgt Ion: 75 Resp: 190447
Ion Ratio Lower Upper
75 100
53 0.1 87.6 131.4#
89 0.0 37.8 56.8#





#95
Naphthalene
Concen: 2.263 ug/l
RT: 15.507 min Scan# 5040
Delta R.T. -0.000 min
Lab File: VN068654.D
Acq: 24 Sep 2021 21:40

Instrument :
MSVOA_N
ClientSampleId :
TRE-1508

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.4	10.6	15.8
129	6.5	8.6	12.8#

