

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090324\
 Data File : VN083633.D
 Acq On : 03 Sep 2024 18:45
 Operator : JC\MD
 Sample : P3787-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 04 03:01:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N083024W.M
 Quant Title : SW846 8260
 QLast Update : Sat Aug 31 00:48:10 2024
 Response via : Initial Calibration

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

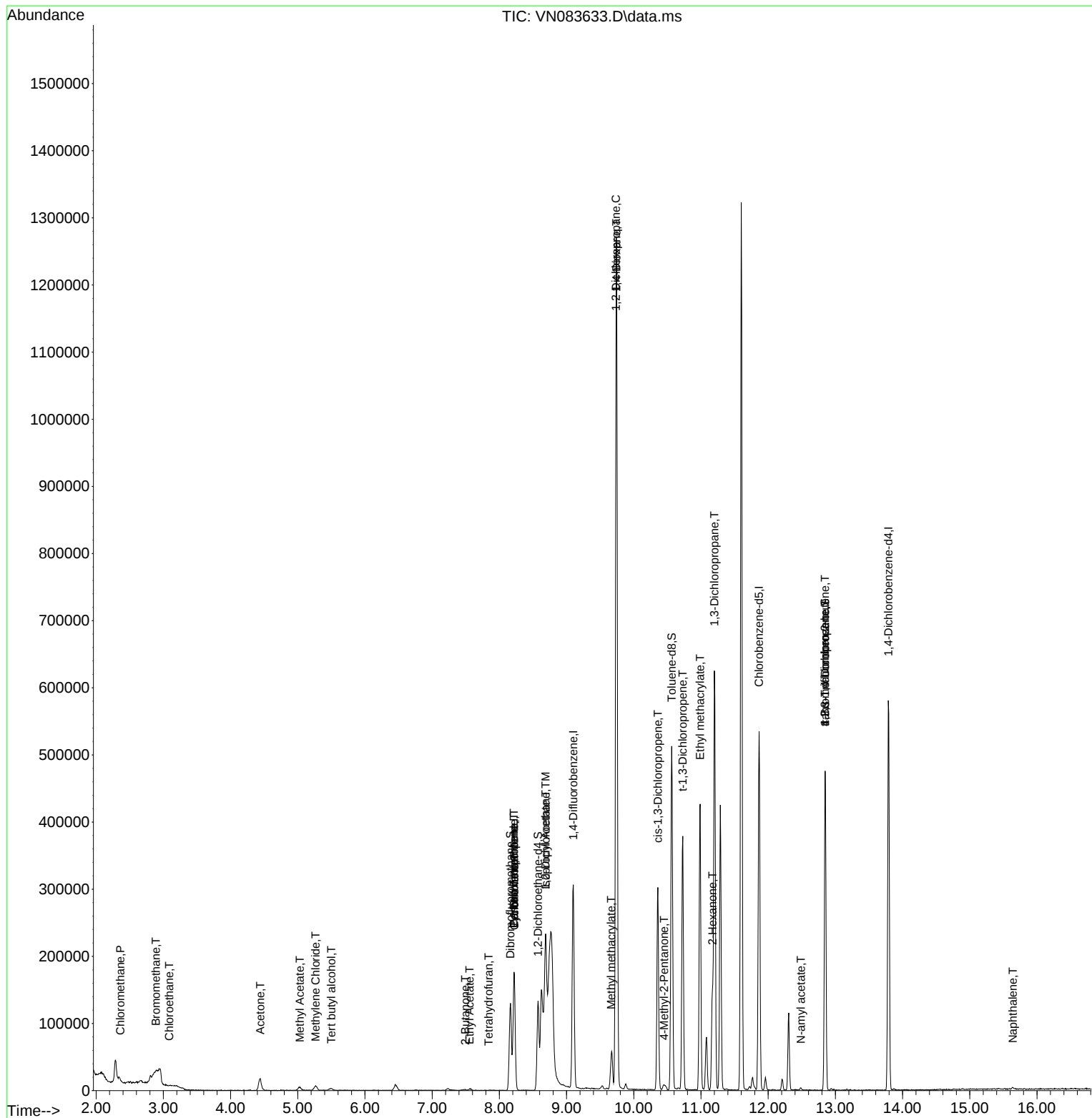
Internal Standards						
1) Pentafluorobenzene	8.218	168	119287	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	253352	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	295534	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	147651	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	113898	68.319	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 136.640%#			
35) Dibromofluoromethane	8.165	113	92279	60.516	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 121.040%			
50) Toluene-d8	10.565	98	344860	57.827	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 115.660%#			
62) 4-Bromofluorobenzene	12.847	95	165050	75.032	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 150.060%#			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	857	0.583	ug/l #	85
5) Bromomethane	2.889	94	181	0.234	ug/l #	2
6) Chloroethane	3.089	64	794	0.826	ug/l #	45
11) Tert butyl alcohol	5.500	59	3188	12.264	ug/l #	71
16) Acetone	4.442	43	24418	36.728	ug/l	93
18) Methyl Acetate	5.030	43	10133	5.731	ug/l #	75
20) Methylene Chloride	5.265	84	5020	3.419	ug/l #	84
25) 2-Butanone	7.494	43	2579	2.849	ug/l #	87
29) Tetrahydrofuran	7.841	42	397	0.707	ug/l #	32
31) Cyclohexane	8.224	56	3338	1.294	ug/l #	34
36) 1,1-Dichloropropene	8.218	75	11478	4.935	ug/l #	51
37) Ethyl Acetate	7.559	43	4325	1.868	ug/l #	84
38) Carbon Tetrachloride	8.218	117	14226	5.361	ug/l #	15
42) 1,2-Dichloroethane	8.688	62	1745	0.658	ug/l #	77
43) Isopropyl Acetate	8.688	43	307139	66.510	ug/l #	75
45) 1,2-Dichloropropane	9.735	63	1437	0.862	ug/l #	42
48) Methyl methacrylate	9.665	41	3997	2.105	ug/l #	46
49) 1,4-Dioxane	9.741	88	168	5.400	ug/l #	1
51) 4-Methyl-2-Pentanone	10.453	43	9952	4.624	ug/l #	72
53) t-1,3-Dichloropropene	10.729	75	814	0.300	ug/l #	42
54) cis-1,3-Dichloropropene	10.359	75	52395	18.422	ug/l #	62
56) Ethyl methacrylate	10.988	69	951	0.360	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	6433	2.275	ug/l #	42
59) 2-Hexanone	11.171	43	126645	78.416	ug/l #	24
74) N-amyl acetate	12.488	43	1481	0.286	ug/l #	45
76) 1,2,3-Trichloropropane	12.847	75	90318	30.297	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	90318	71.459	ug/l #	9
95) Naphthalene	15.641	128	3477	0.364	ug/l #	86

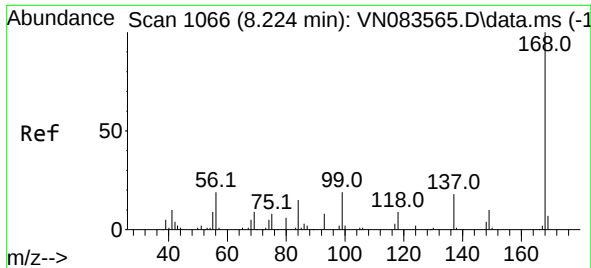
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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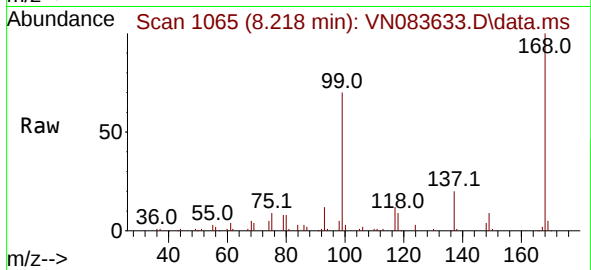
Quant Time: Sep 04 03:01:12 2024
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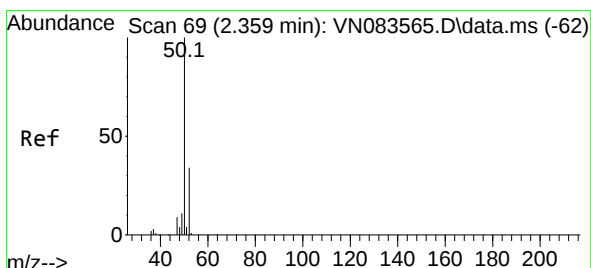
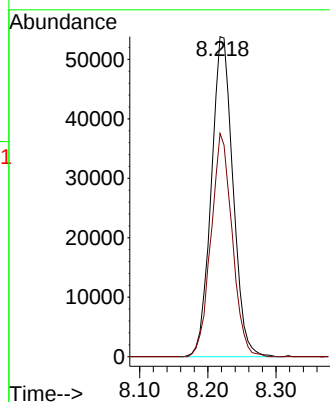
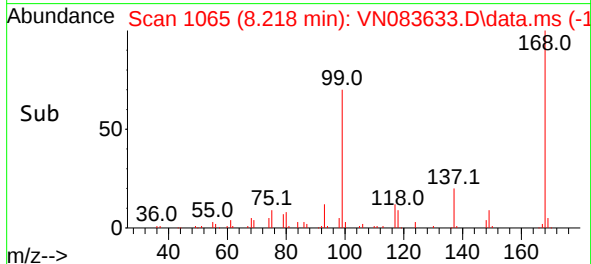


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

Instrument :
MSVOA_N
ClientSampleId :

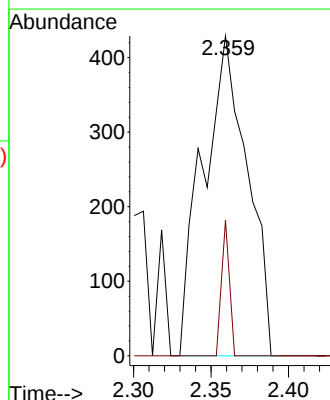
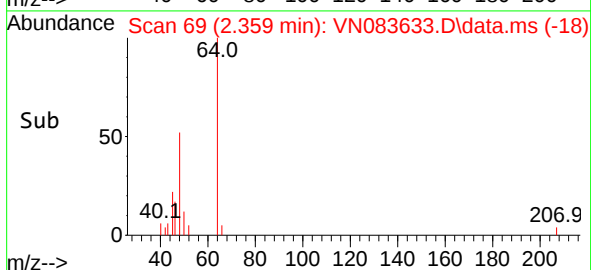
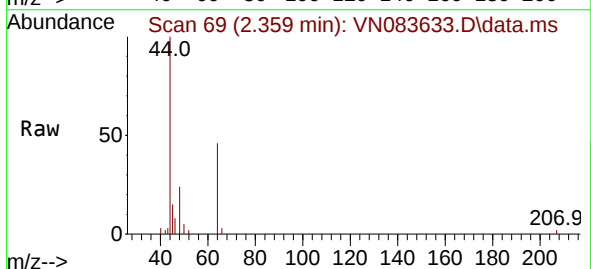


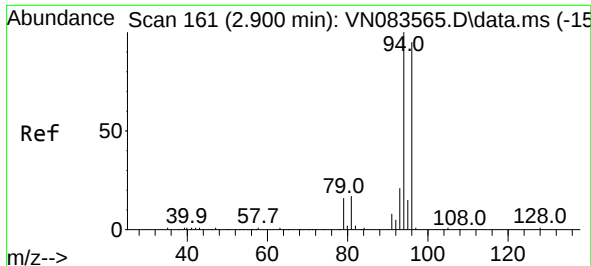
Tgt Ion:168 Resp: 119287
Ion Ratio Lower Upper
168 100
99 69.7 54.2 81.2



#3
Chloromethane
Concen: 0.583 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

Tgt Ion: 50 Resp: 857
Ion Ratio Lower Upper
50 100
52 42.4 27.2 40.8#

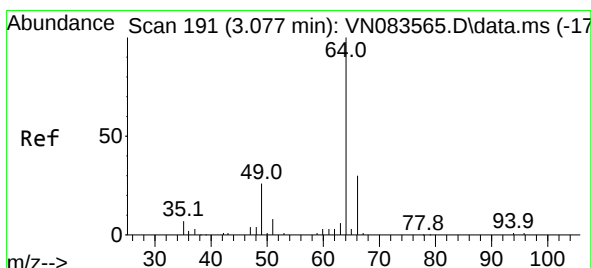
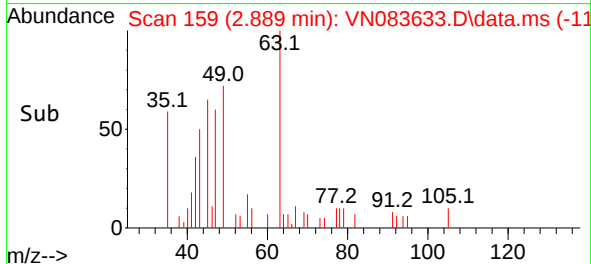
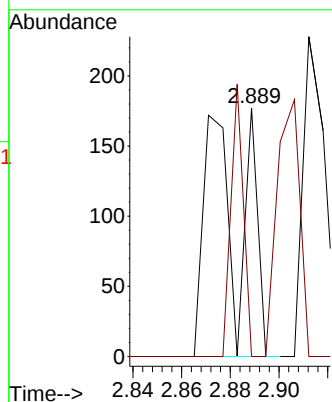
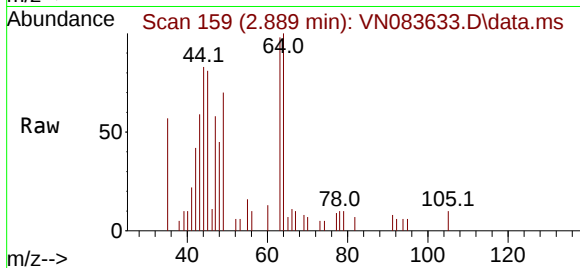




#5
Bromomethane
Concen: 0.234 ug/l
RT: 2.889 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

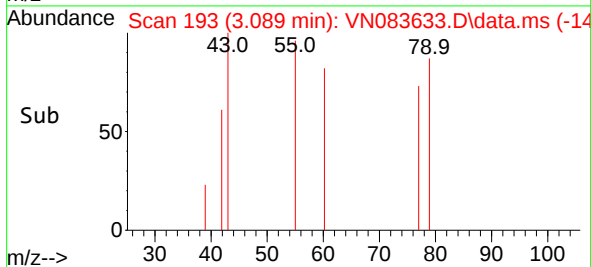
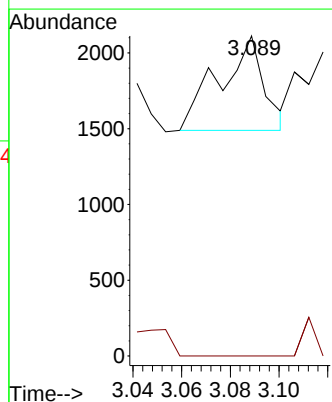
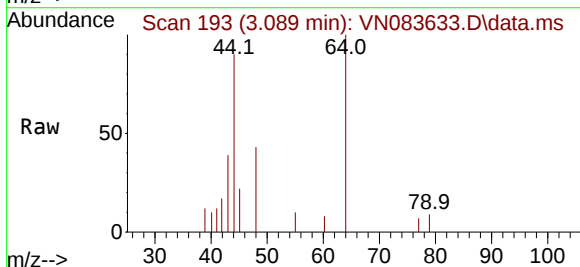
Instrument :
MSVOA_N
ClientSampleId :

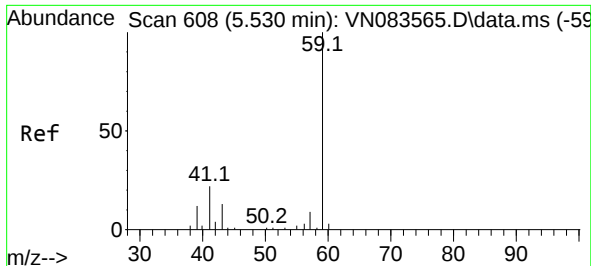
Tgt Ion: 94 Resp: 181
Ion Ratio Lower Upper
94 100
96 0.0 76.0 114.0#



#6
Chloroethane
Concen: 0.826 ug/l
RT: 3.089 min Scan# 193
Delta R.T. 0.012 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

Tgt Ion: 64 Resp: 794
Ion Ratio Lower Upper
64 100
66 0.0 23.9 35.9#





#11

Tert butyl alcohol

Concen: 12.264 ug/l

RT: 5.500 min Scan# 608

Delta R.T. -0.029 min

Lab File: VN083633.D

Acq: 03 Sep 2024 18:45

Instrument :

MSVOA_N

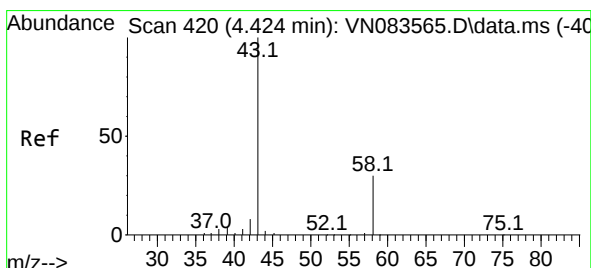
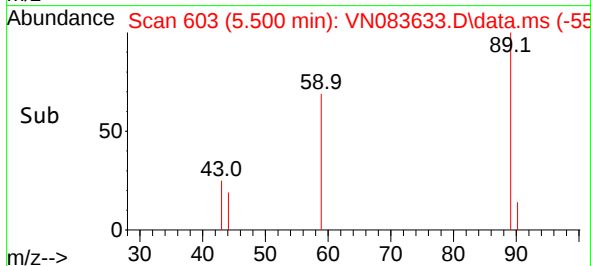
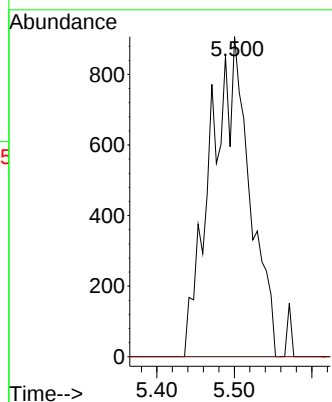
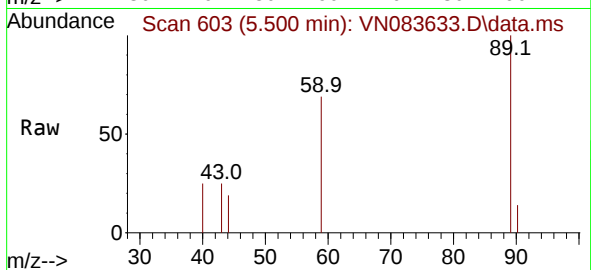
ClientSampleId :

Tgt Ion: 59 Resp: 3188

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#16

Acetone

Concen: 36.728 ug/l

RT: 4.442 min Scan# 423

Delta R.T. 0.018 min

Lab File: VN083633.D

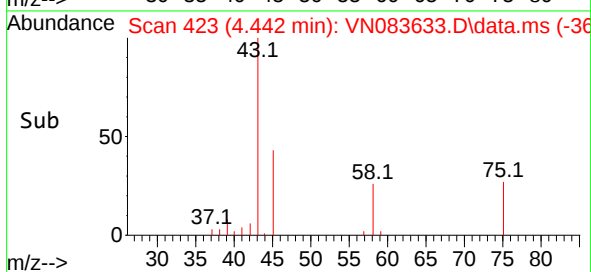
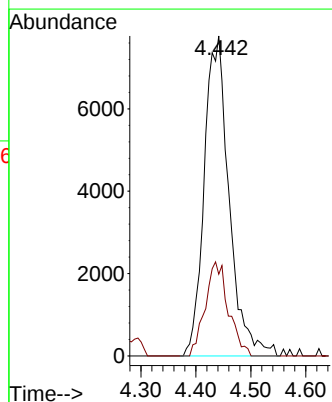
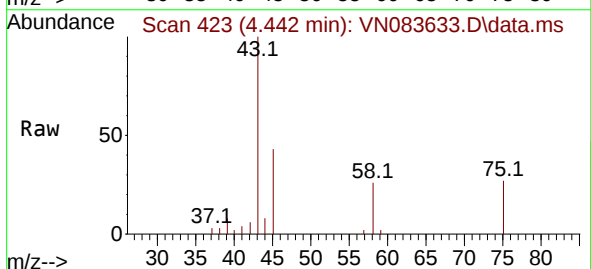
Acq: 03 Sep 2024 18:45

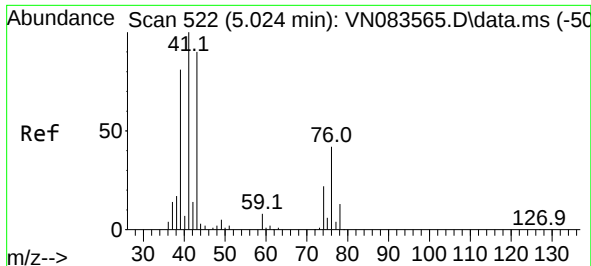
Tgt Ion: 43 Resp: 24418

Ion Ratio Lower Upper

43 100

58 25.6 23.7 35.5





#18

Methyl Acetate

Concen: 5.731 ug/l

RT: 5.030 min Scan# 51

Delta R.T. 0.006 min

Lab File: VN083633.D

Acq: 03 Sep 2024 18:45

Instrument :

MSVOA_N

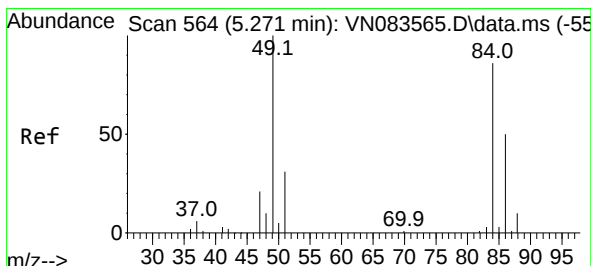
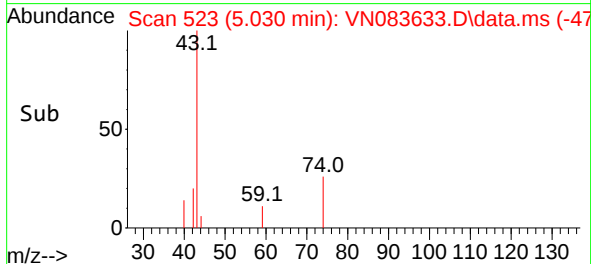
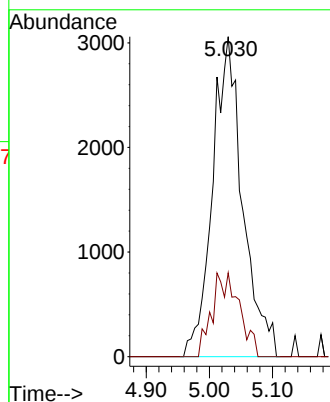
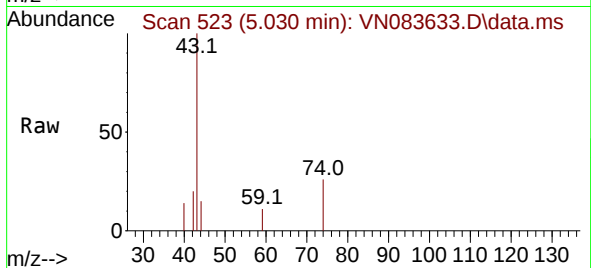
ClientSampleId :

Tgt Ion: 43 Resp: 10133

Ion Ratio Lower Upper

43 100

74 11.5 19.0 28.4#



#20

Methylene Chloride

Concen: 3.419 ug/l

RT: 5.265 min Scan# 563

Delta R.T. -0.006 min

Lab File: VN083633.D

Acq: 03 Sep 2024 18:45

Tgt Ion: 84 Resp: 5020

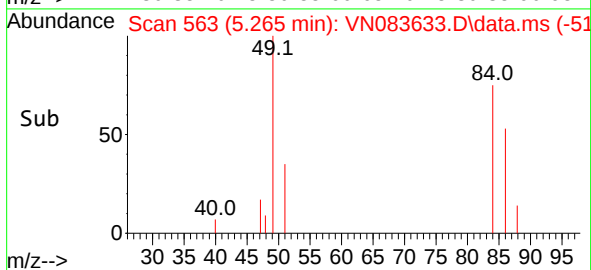
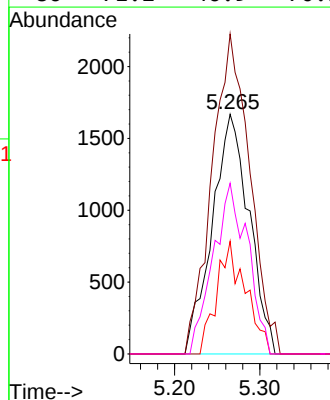
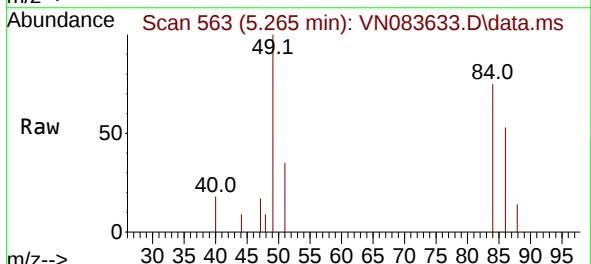
Ion Ratio Lower Upper

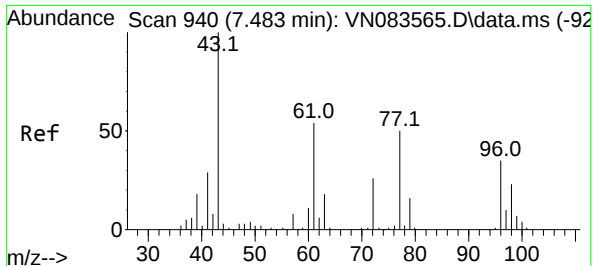
84 100

49 133.5 93.4 140.0

51 47.0 29.2 43.8#

86 71.2 46.9 70.3#





#25

2-Butanone

Concen: 2.849 ug/l

RT: 7.494 min Scan# 94

Delta R.T. 0.012 min

Lab File: VN083633.D

Acq: 03 Sep 2024 18:45

Instrument :

MSVOA_N

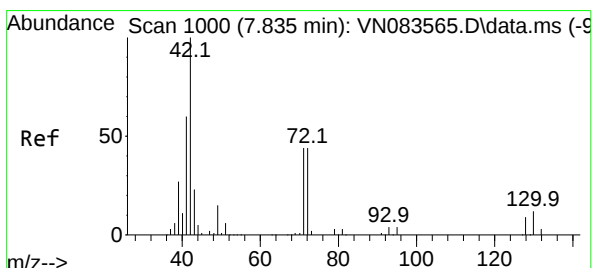
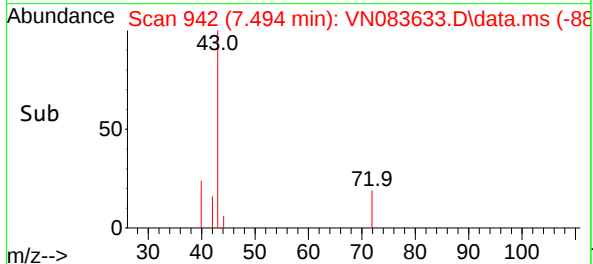
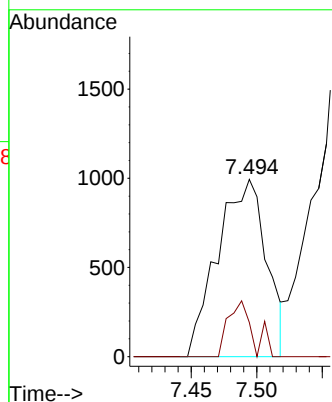
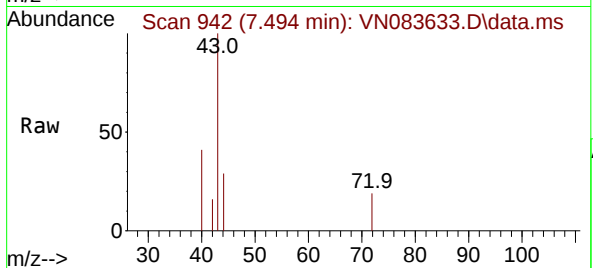
ClientSampleId :

Tgt Ion: 43 Resp: 2579

Ion Ratio Lower Upper

43 100

72 19.3 20.8 31.2#



#29

Tetrahydrofuran

Concen: 0.707 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.006 min

Lab File: VN083633.D

Acq: 03 Sep 2024 18:45

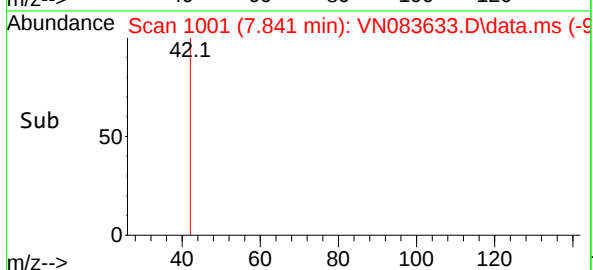
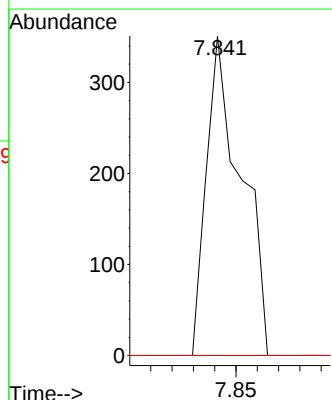
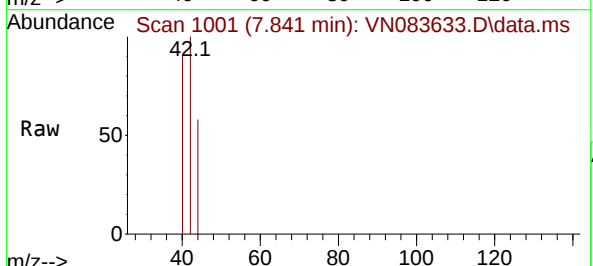
Tgt Ion: 42 Resp: 397

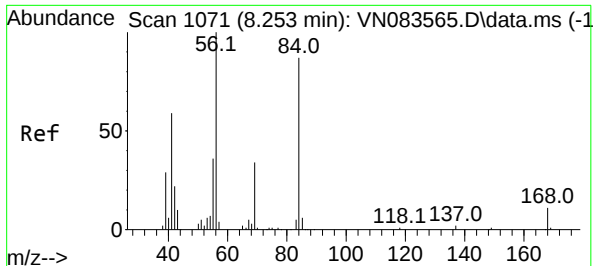
Ion Ratio Lower Upper

42 100

72 0.0 35.9 53.9#

71 0.0 33.9 50.9#





#31

Cyclohexane

Concen: 1.294 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

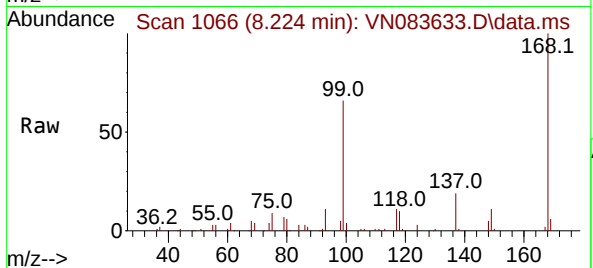
Lab File: VN083633.D

Acq: 03 Sep 2024 18:45

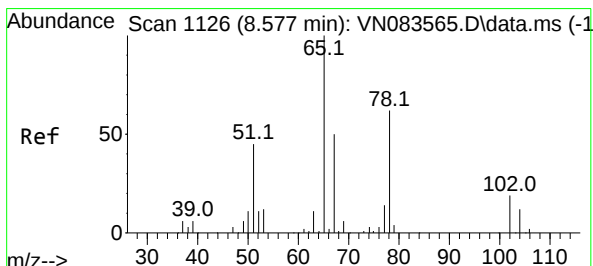
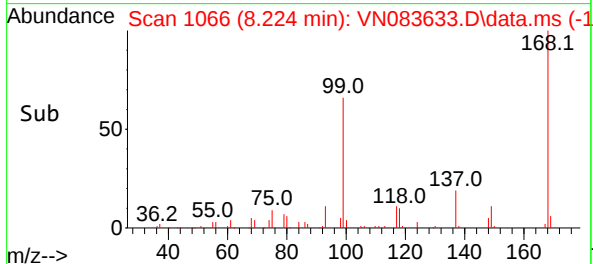
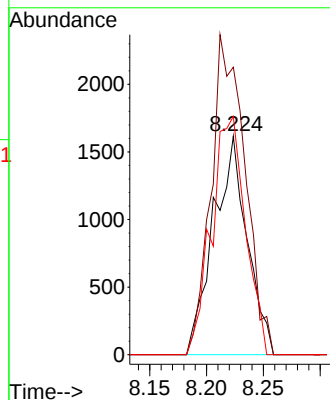
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	56	Resp:	3338
Ion Ratio	Lower	Upper	
56	100		
69	131.5	26.9	40.3#
84	109.0	69.2	103.8#



#33

1,2-Dichloroethane-d4

Concen: 68.319 ug/l

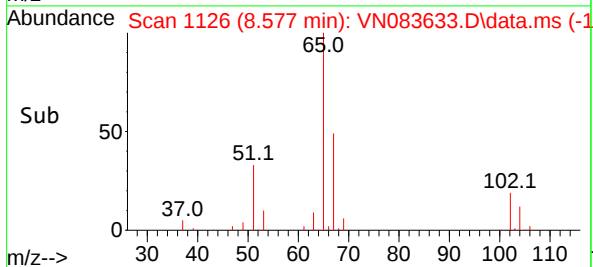
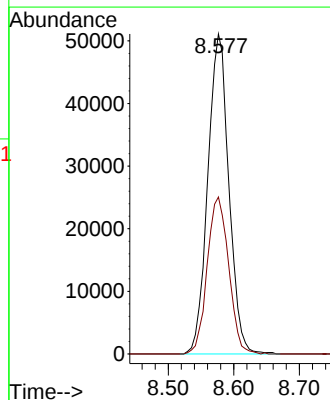
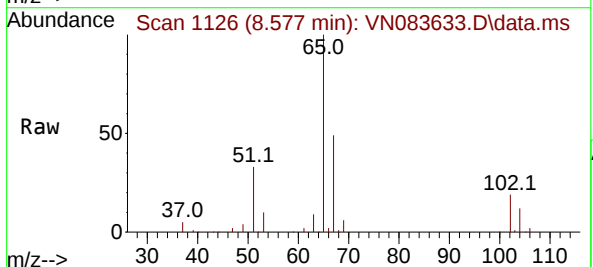
RT: 8.577 min Scan# 1126

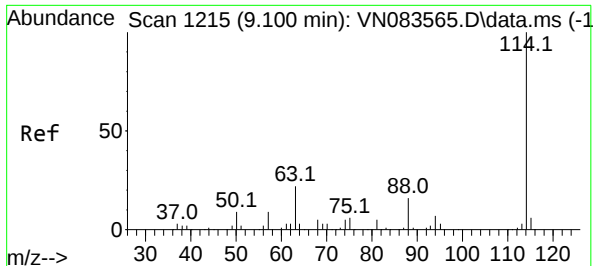
Delta R.T. -0.000 min

Lab File: VN083633.D

Acq: 03 Sep 2024 18:45

Tgt Ion:	65	Resp:	113898
Ion Ratio	Lower	Upper	
65	100		
67	50.1	0.0	100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN083633.D

Acq: 03 Sep 2024 18:45

Instrument :

MSVOA_N

ClientSampleId :

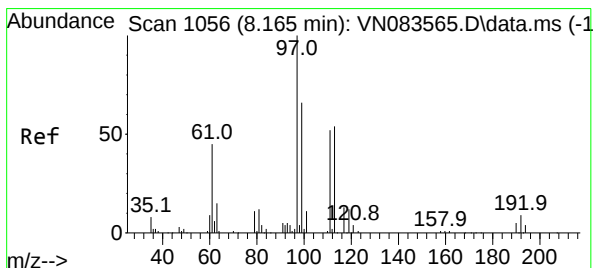
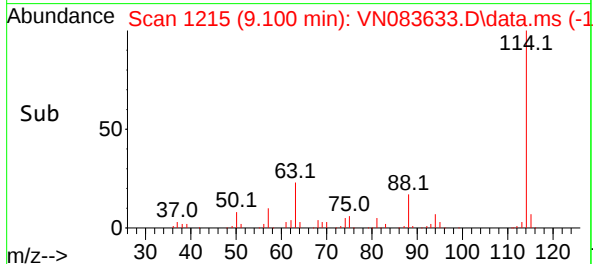
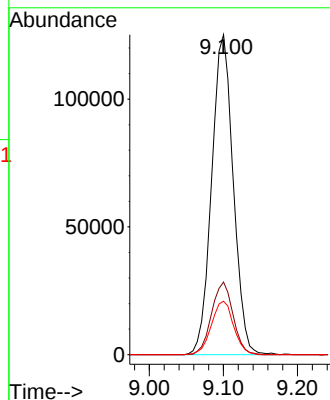
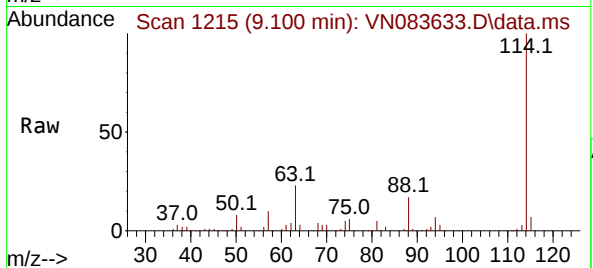
Tgt Ion:114 Resp: 253352

Ion Ratio Lower Upper

114 100

63 22.7 0.0 43.4

88 16.7 0.0 32.6



#35

Dibromofluoromethane

Concen: 60.516 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN083633.D

Acq: 03 Sep 2024 18:45

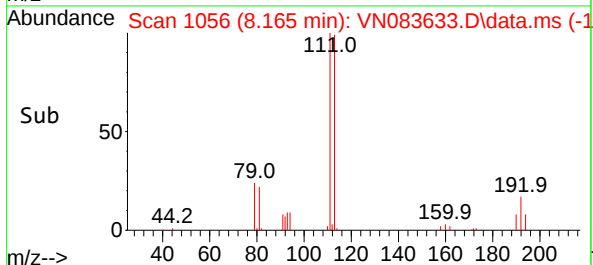
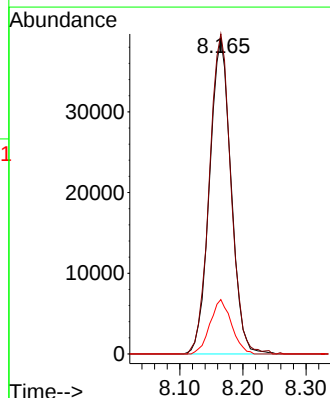
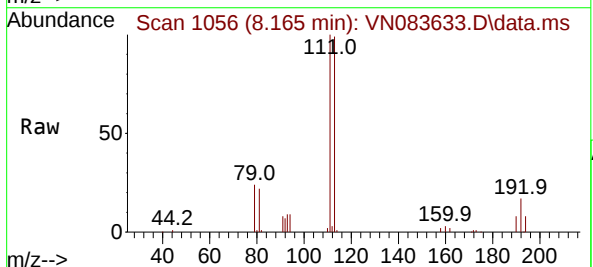
Tgt Ion:113 Resp: 92279

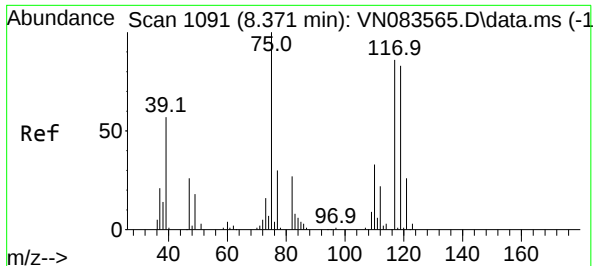
Ion Ratio Lower Upper

113 100

111 101.9 82.6 124.0

192 17.2 14.3 21.5





#36

1,1-Dichloropropene

Concen: 4.935 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.153 min

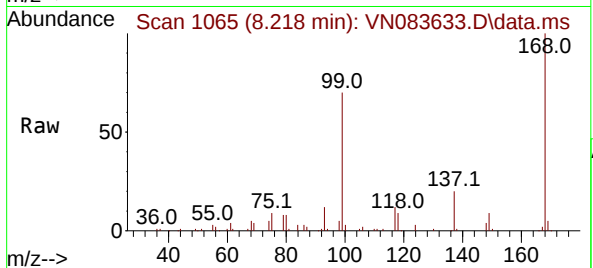
Lab File: VN083633.D

Acq: 03 Sep 2024 18:45

Instrument :

MSVOA_N

ClientSampleId :



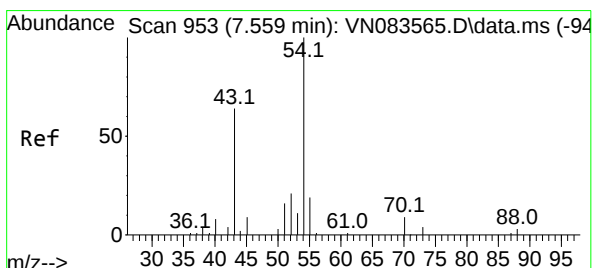
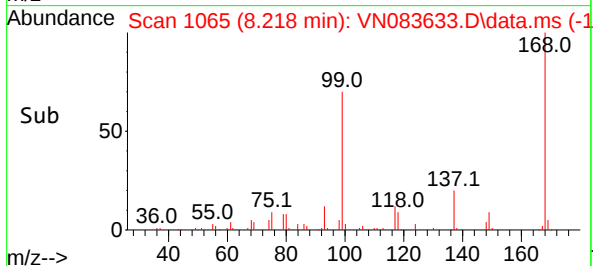
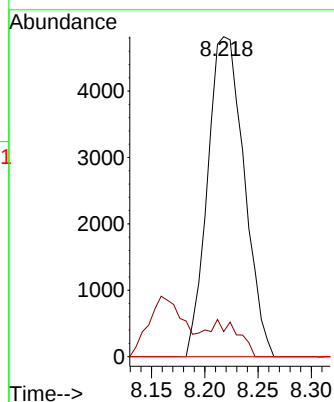
Tgt Ion: 75 Resp: 11478

Ion Ratio Lower Upper

75 100

110 9.5 16.7 50.1#

77 0.0 25.2 37.8#



#37

Ethyl Acetate

Concen: 1.868 ug/l

RT: 7.559 min Scan# 953

Delta R.T. -0.000 min

Lab File: VN083633.D

Acq: 03 Sep 2024 18:45

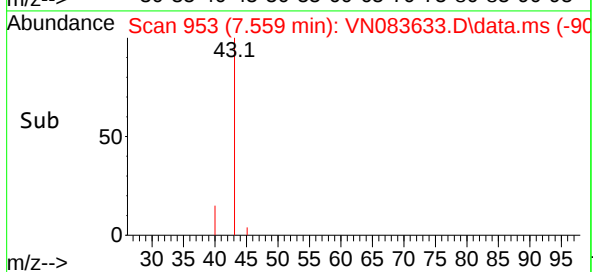
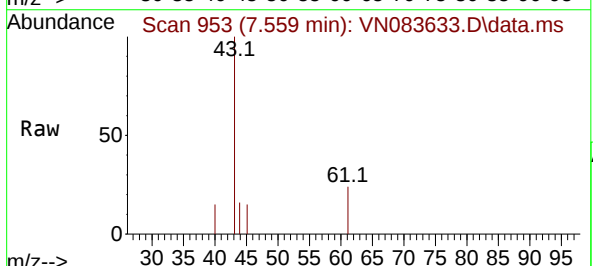
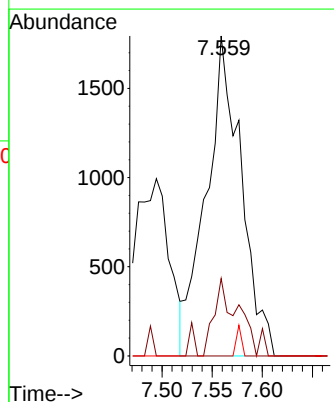
Tgt Ion: 43 Resp: 4325

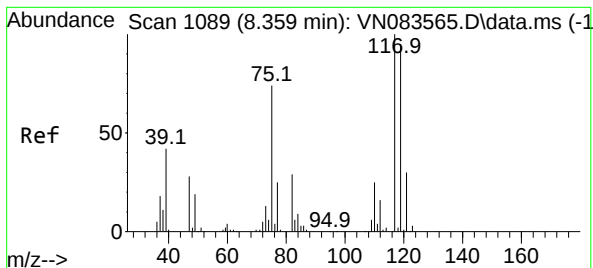
Ion Ratio Lower Upper

43 100

61 10.7 11.1 16.7#

70 1.4 8.8 13.2#





#38

Carbon Tetrachloride

Concen: 5.361 ug/l

RT: 8.218 min Scan# 1105

Delta R.T. -0.141 min

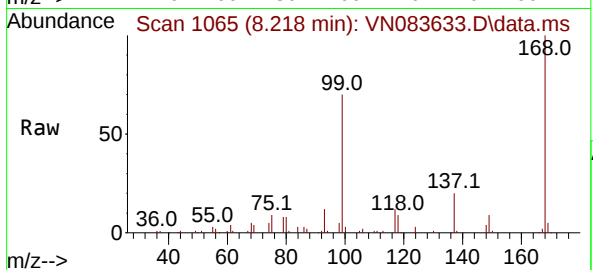
Lab File: VN083633.D

Acq: 03 Sep 2024 18:45

Instrument :

MSVOA_N

ClientSampleId :



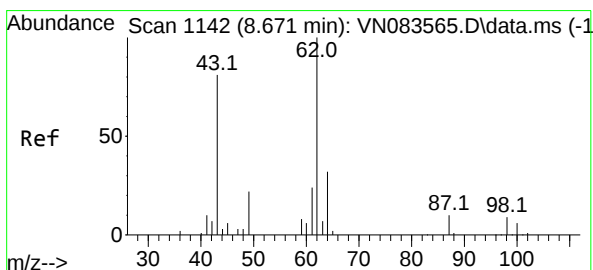
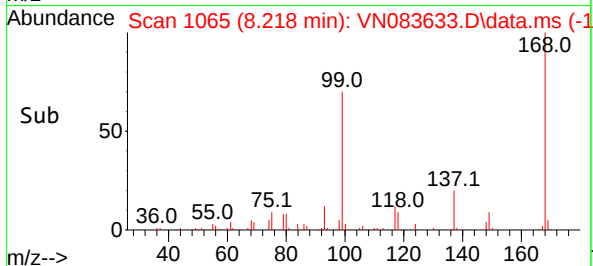
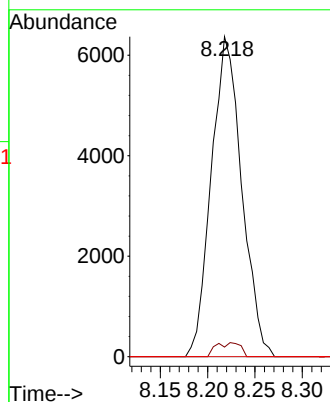
Tgt Ion:117 Resp: 14226

Ion Ratio Lower Upper

117 100

119 3.0 76.1 114.1#

121 0.0 24.1 36.1#



#42

1,2-Dichloroethane

Concen: 0.658 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN083633.D

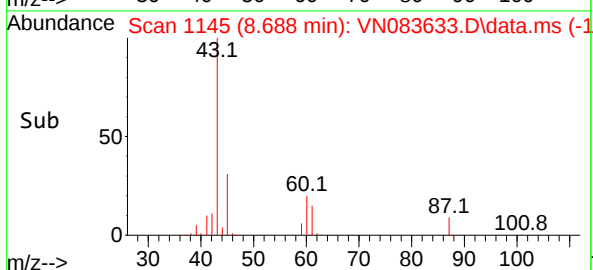
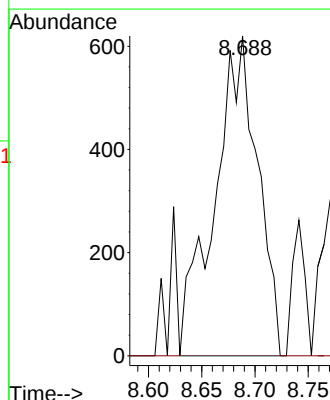
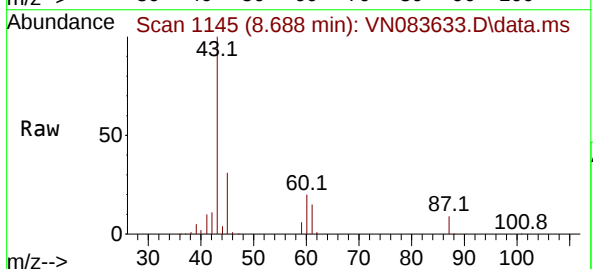
Acq: 03 Sep 2024 18:45

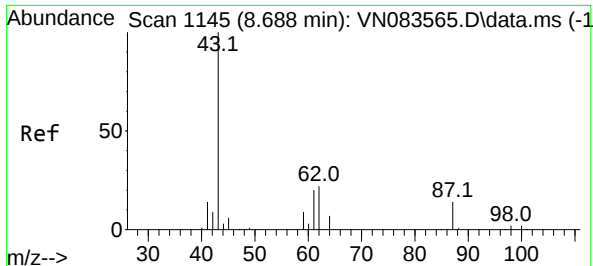
Tgt Ion: 62 Resp: 1745

Ion Ratio Lower Upper

62 100

98 0.0 0.0 16.6





#43

Isopropyl Acetate

Concen: 66.510 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN083633.D

Acq: 03 Sep 2024 18:45

Instrument :

MSVOA_N

ClientSampleId :

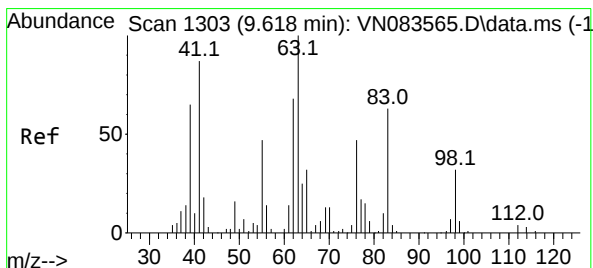
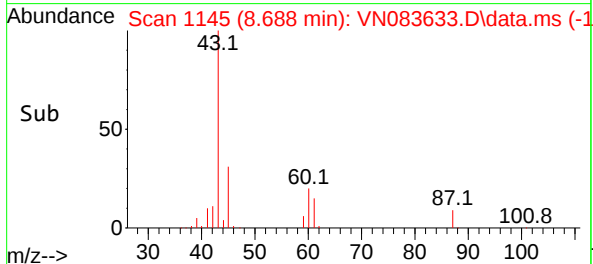
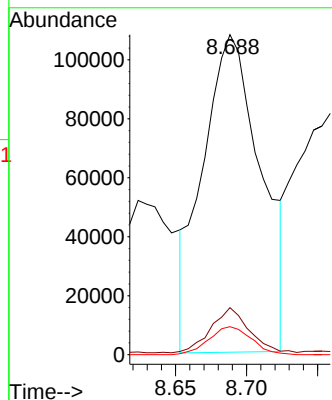
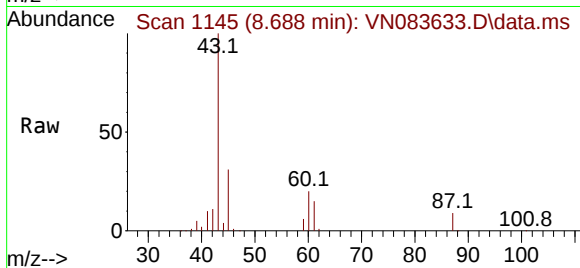
Tgt Ion: 43 Resp: 307139

Ion Ratio Lower Upper

43 100

61 9.3 19.4 29.0#

87 6.4 9.8 14.6#



#45

1,2-Dichloropropane

Concen: 0.862 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN083633.D

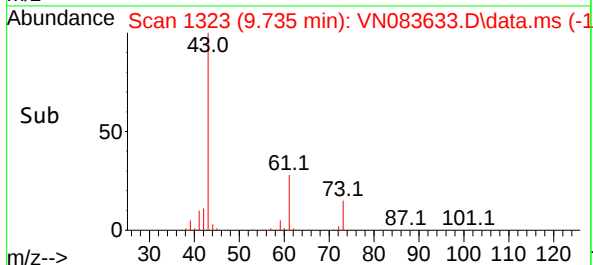
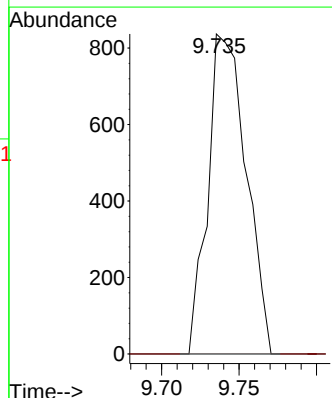
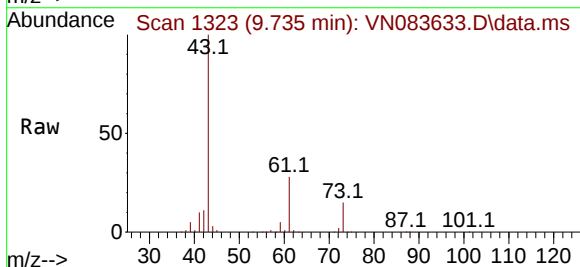
Acq: 03 Sep 2024 18:45

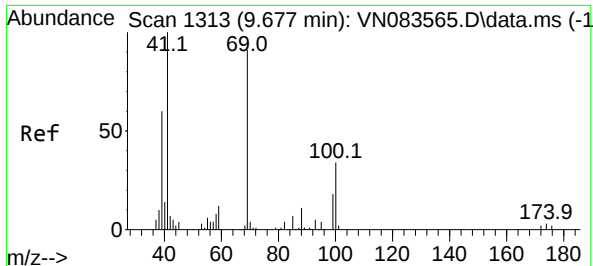
Tgt Ion: 63 Resp: 1437

Ion Ratio Lower Upper

63 100

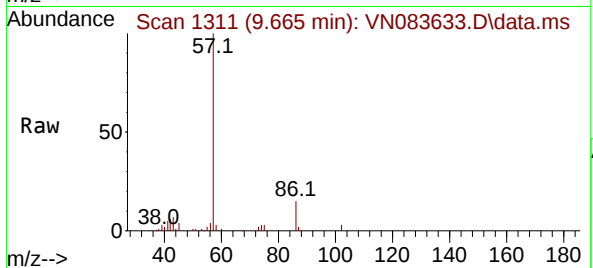
65 0.0 25.9 38.9#



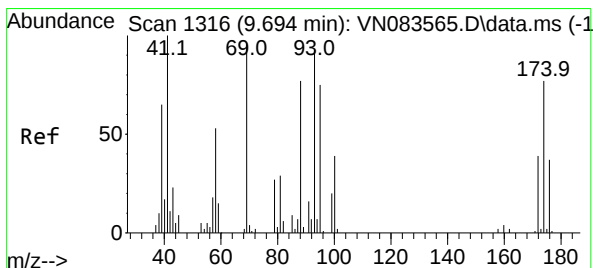
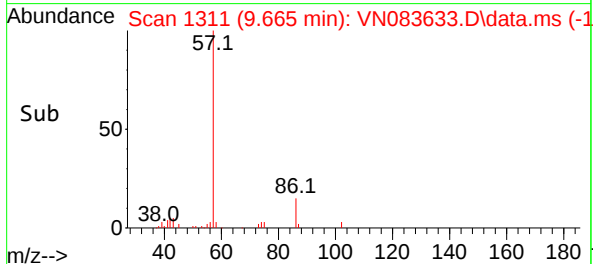
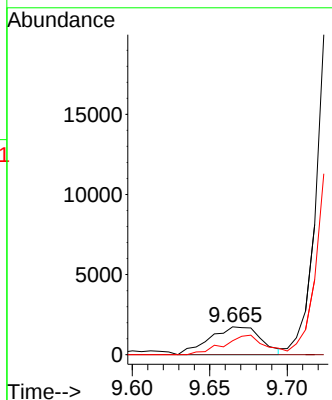


#48
Methyl methacrylate
Concen: 2.105 ug/l
RT: 9.665 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

Instrument :
MSVOA_N
ClientSampleId :

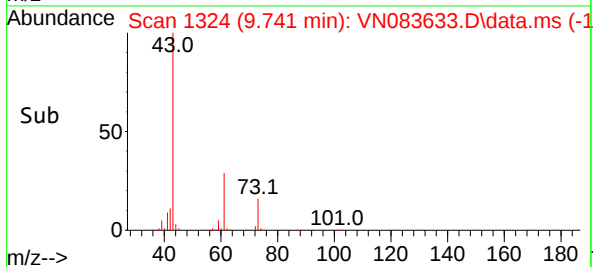
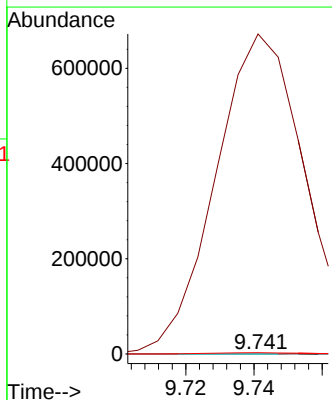
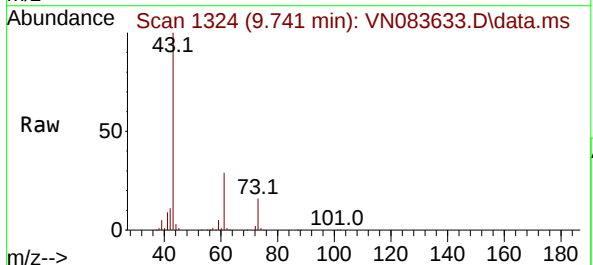


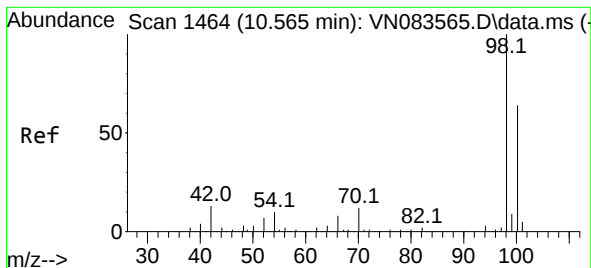
Tgt Ion: 41 Resp: 3997
Ion Ratio Lower Upper
41 100
69 0.0 64.3 96.5#
39 57.4 48.9 73.3



#49
1,4-Dioxane
Concen: 5.400 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.047 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

Tgt Ion: 88 Resp: 168
Ion Ratio Lower Upper
88 100
43 734299.4 0.0 0.0#
58 2901.2 57.1 85.7#

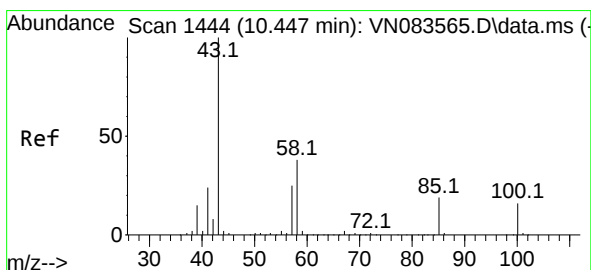
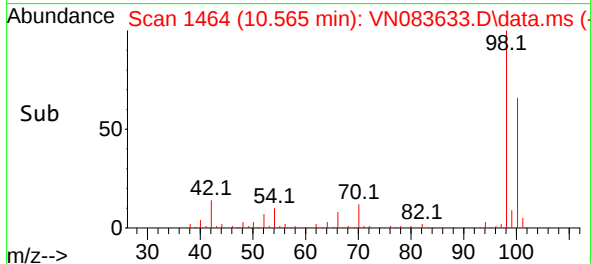
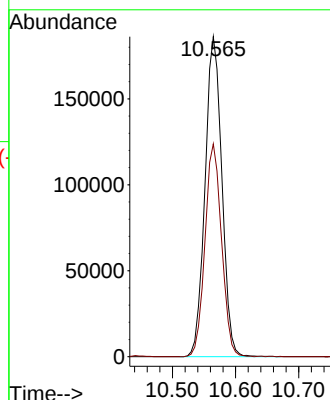
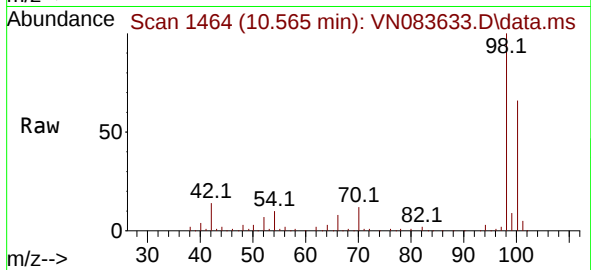




#50
Toluene-d8
Concen: 57.827 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

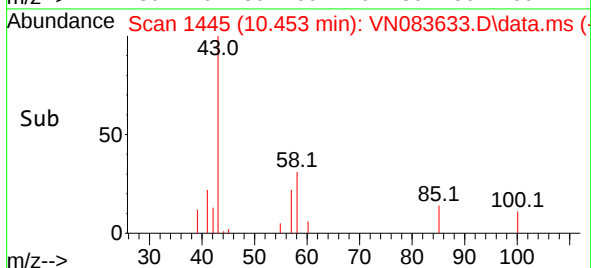
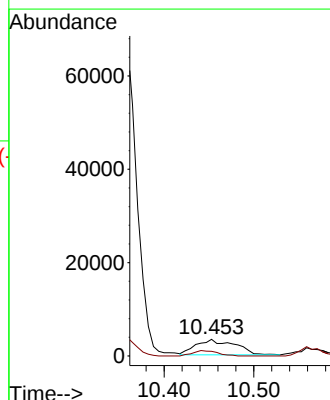
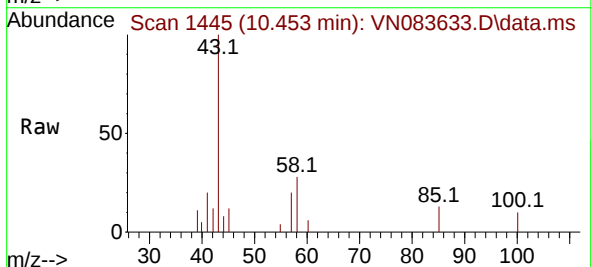
Instrument :
MSVOA_N
ClientSampleId :

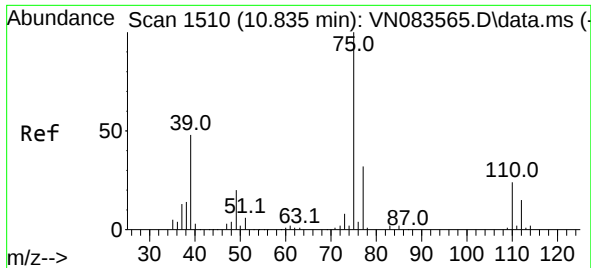
Tgt Ion: 98 Resp: 344860
Ion Ratio Lower Upper
98 100
100 65.3 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 4.624 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.006 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

Tgt Ion: 43 Resp: 9952
Ion Ratio Lower Upper
43 100
58 22.2 31.6 47.4#

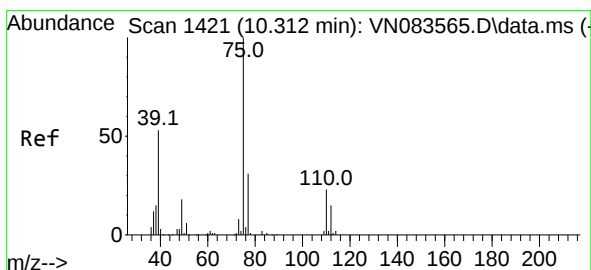
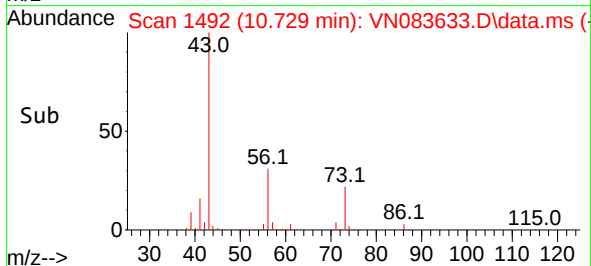
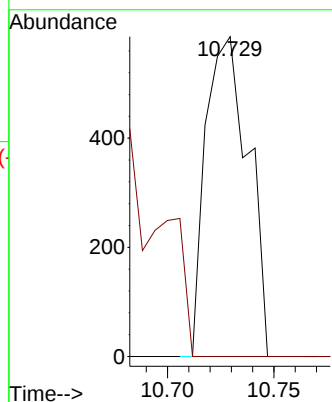
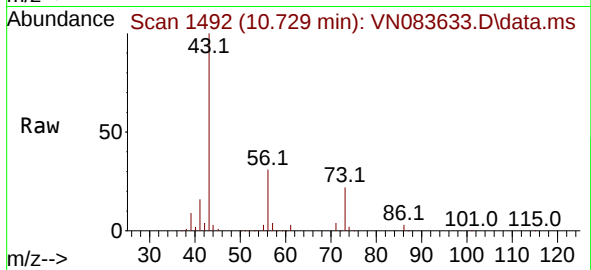




#53
t-1,3-Dichloropropene
Concen: 0.300 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

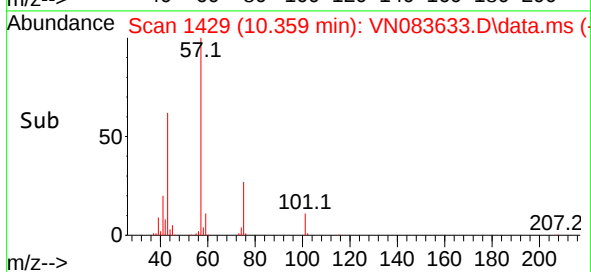
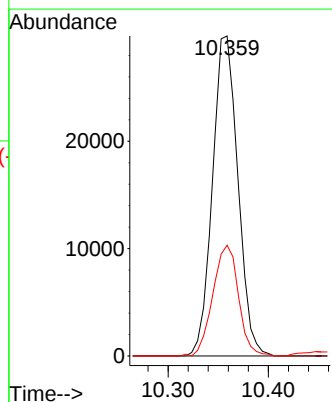
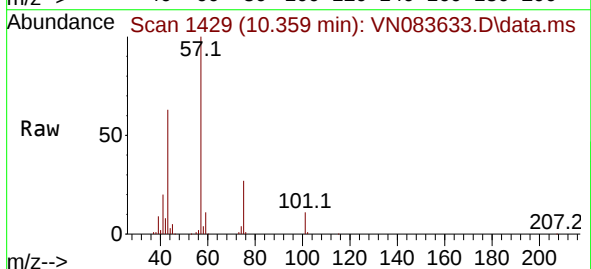
Instrument :
MSVOA_N
ClientSampleId :

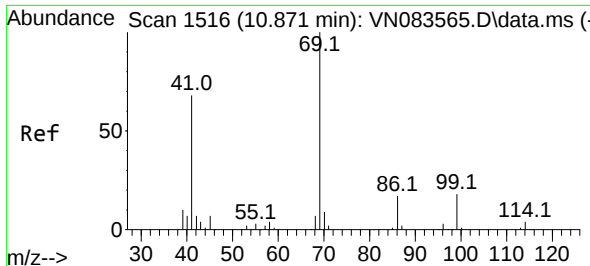
Tgt Ion: 75 Resp: 814
Ion Ratio Lower Upper
75 100
77 0.0 25.8 38.6#



#54
cis-1,3-Dichloropropene
Concen: 18.422 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

Tgt Ion: 75 Resp: 52395
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.6#
39 34.6 42.6 64.0#

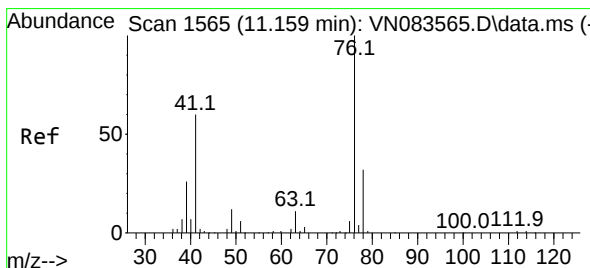
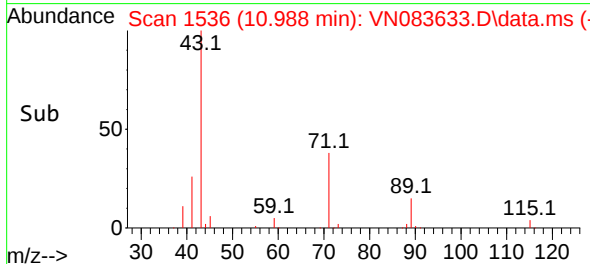
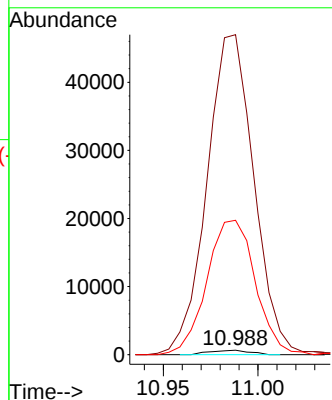
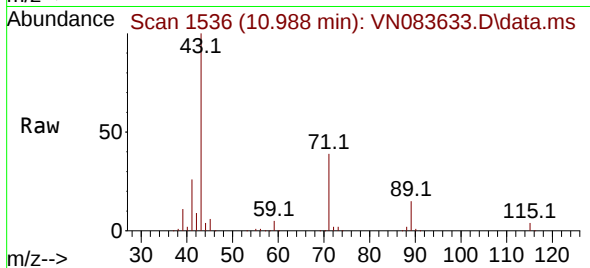




#56
Ethyl methacrylate
Concen: 0.360 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.118 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

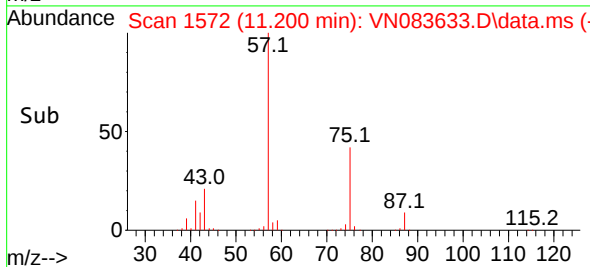
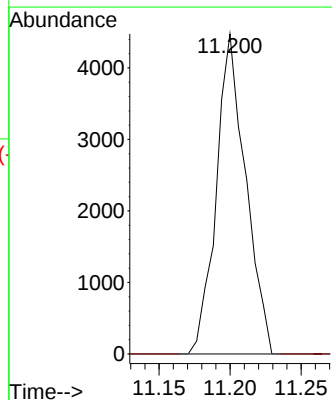
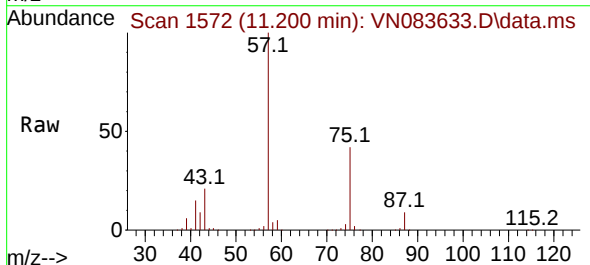
Instrument :
MSVOA_N
ClientSampleId :

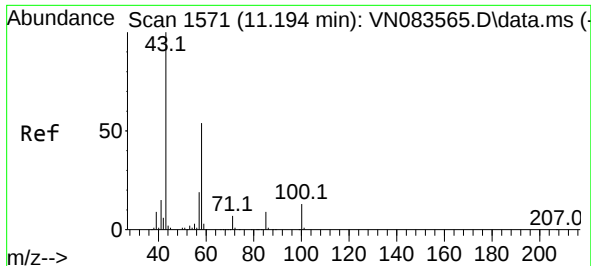
Tgt Ion: 69 Resp: 951
Ion Ratio Lower Upper
69 100
41 8587.8 53.9 80.9#
39 3696.2 32.6 48.8#



#57
1,3-Dichloropropane
Concen: 2.275 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

Tgt Ion: 76 Resp: 6433
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

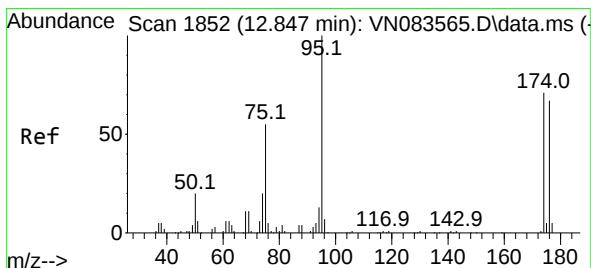
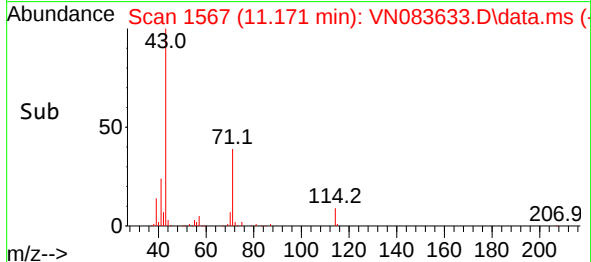
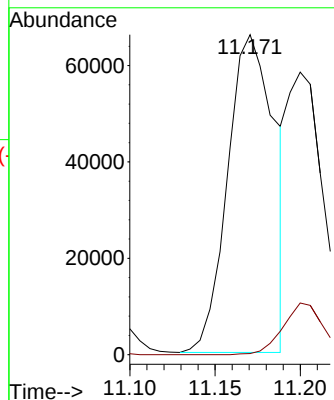
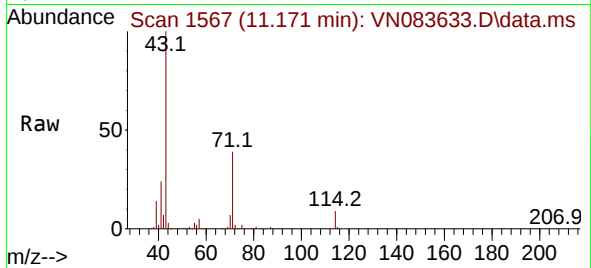




#59
2-Hexanone
Concen: 78.416 ug/l
RT: 11.171 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

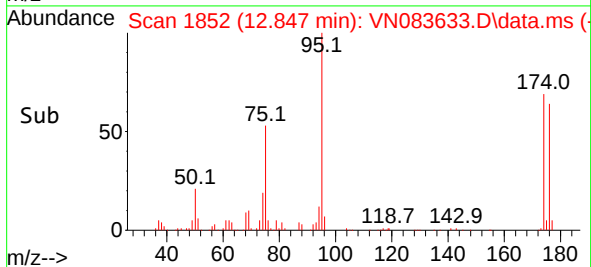
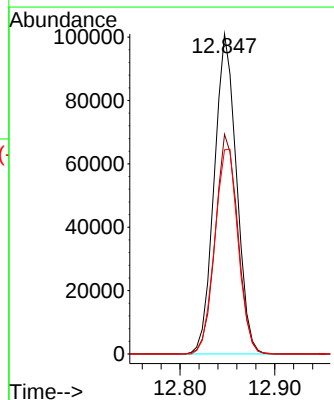
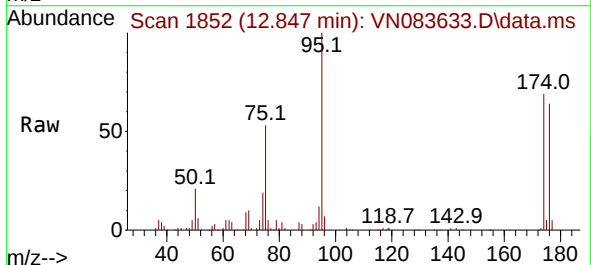
Instrument :
MSVOA_N
ClientSampleId :

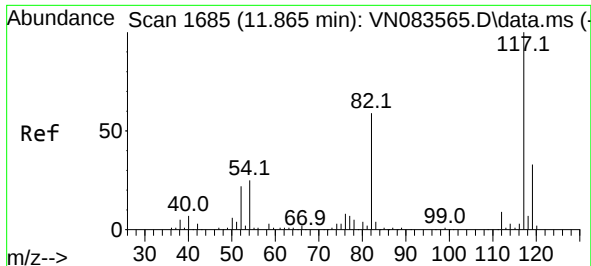
Tgt Ion: 43 Resp: 126645
Ion Ratio Lower Upper
43 100
58 0.0 27.2 81.5#



#62
4-Bromofluorobenzene
Concen: 75.032 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

Tgt Ion: 95 Resp: 165050
Ion Ratio Lower Upper
95 100
174 69.4 0.0 139.8
176 67.6 0.0 131.4

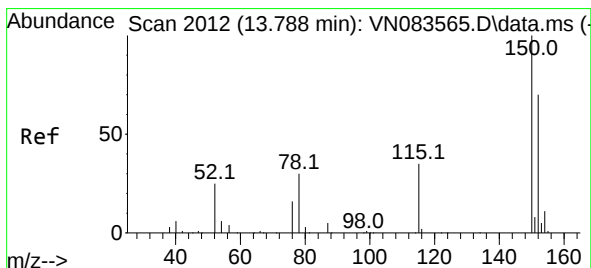
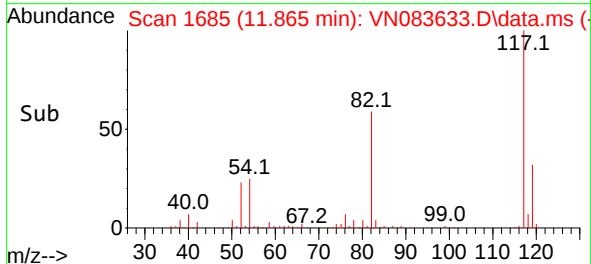
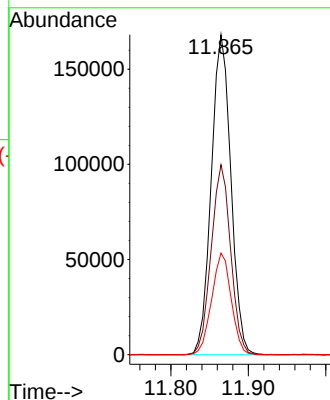
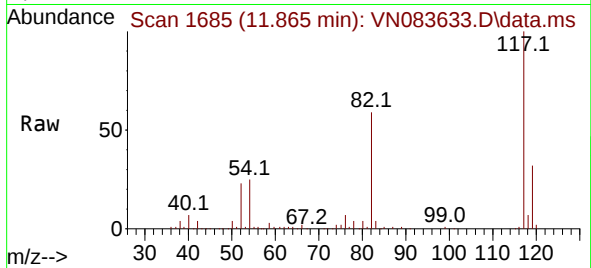




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1
Delta R.T. -0.000 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

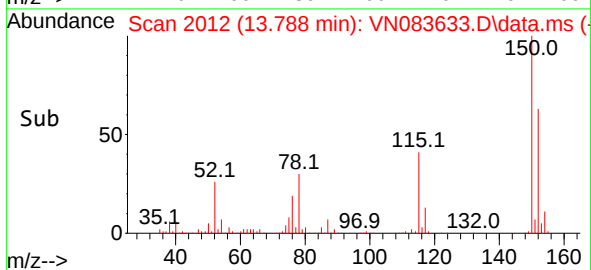
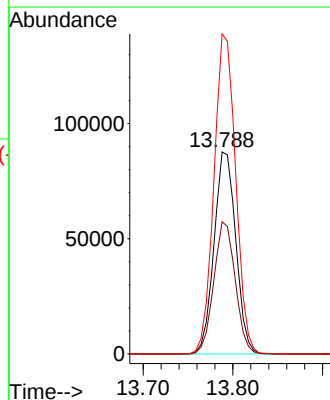
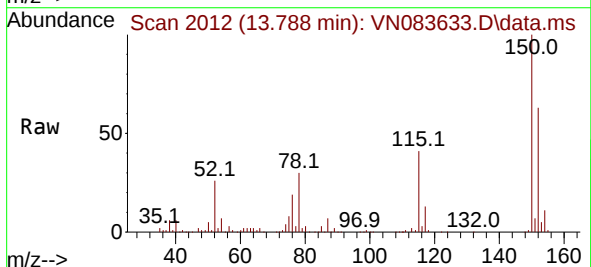
Instrument :
MSVOA_N
ClientSampleId :

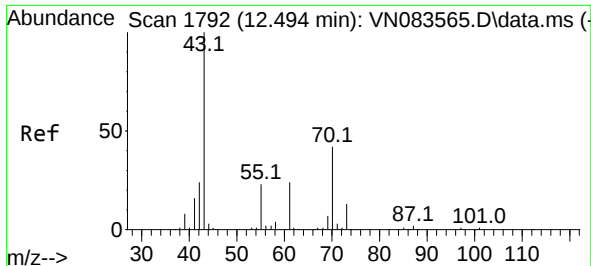
Tgt Ion:117 Resp: 295534
Ion Ratio Lower Upper
117 100
82 59.4 47.4 71.0
119 31.8 26.3 39.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

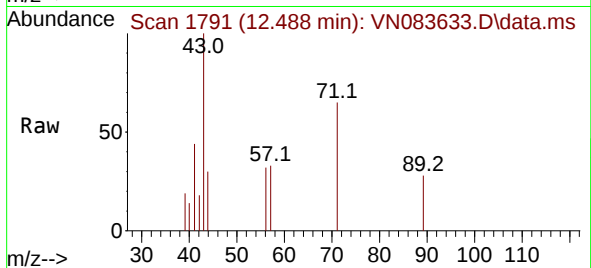
Tgt Ion:152 Resp: 147651
Ion Ratio Lower Upper
152 100
115 64.6 32.2 96.6
150 158.1 0.0 348.6



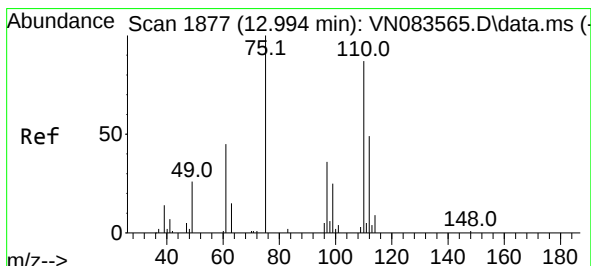
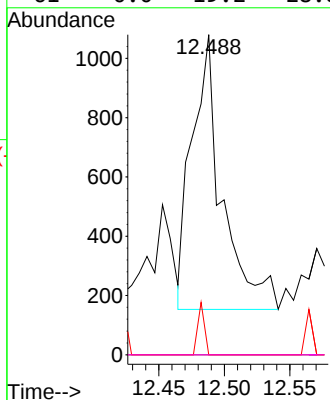
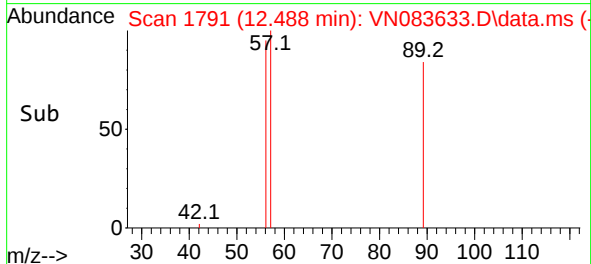


#74
N-amy1 acetate
Concen: 0.286 ug/l
RT: 12.488 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

Instrument :
MSVOA_N
ClientSampleId :

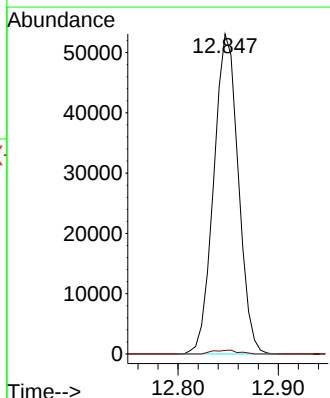
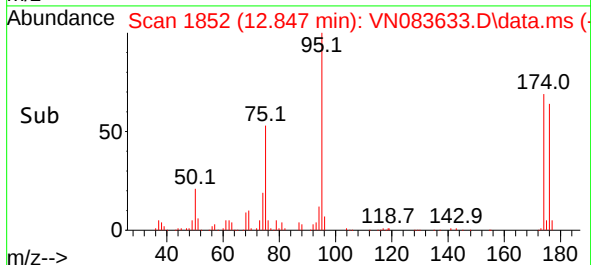
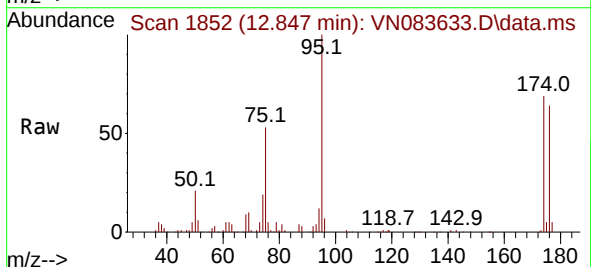


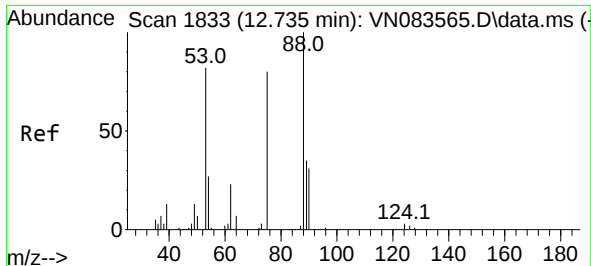
Tgt Ion: 43	Resp: 1481
Ion Ratio	Lower Upper
43 100	
70 0.0	34.5 51.7#
55 4.2	18.6 28.0#
61 0.0	19.2 28.8#



#76
1,2,3-Trichloropropane
Concen: 30.297 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

Tgt Ion: 75	Resp: 90318
Ion Ratio	Lower Upper
75 100	
77 1.3	95.2 285.6#

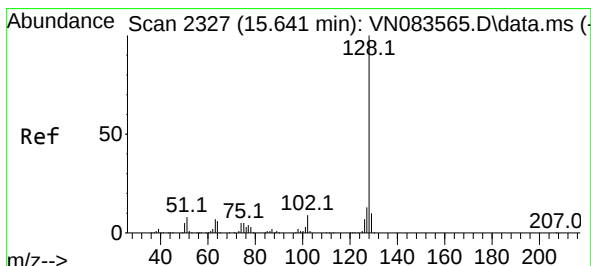
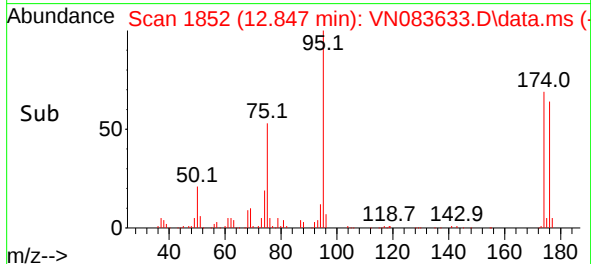
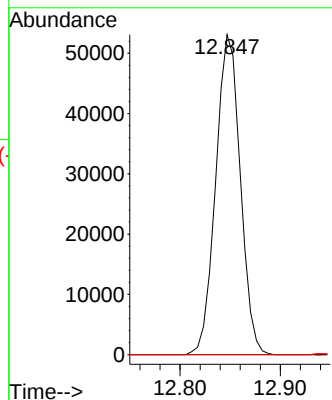
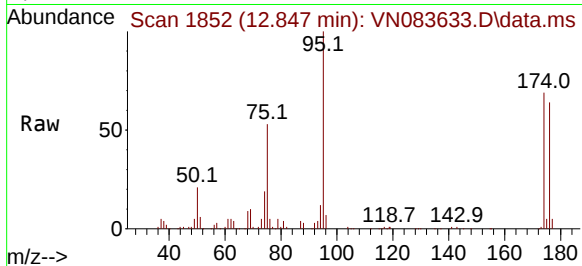




#81
trans-1,4-Dichloro-2-butene
Concen: 71.459 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 90318
Ion Ratio Lower Upper
75 100
53 0.0 81.2 121.8#
89 0.0 35.7 53.5#



#95
Naphthalene
Concen: 0.364 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN083633.D
Acq: 03 Sep 2024 18:45

Tgt Ion:128 Resp: 3477
Ion Ratio Lower Upper
128 100
127 5.4 10.2 15.2#
129 8.0 8.7 13.1#

