

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084349.D
 Acq On : 08 Oct 2024 15:17
 Operator : JC\MD
 Sample : P4334-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002-35TH-AVE(SEP)

Quant Time: Oct 09 02:31:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:21:08 2024
 Response via : Initial Calibration

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

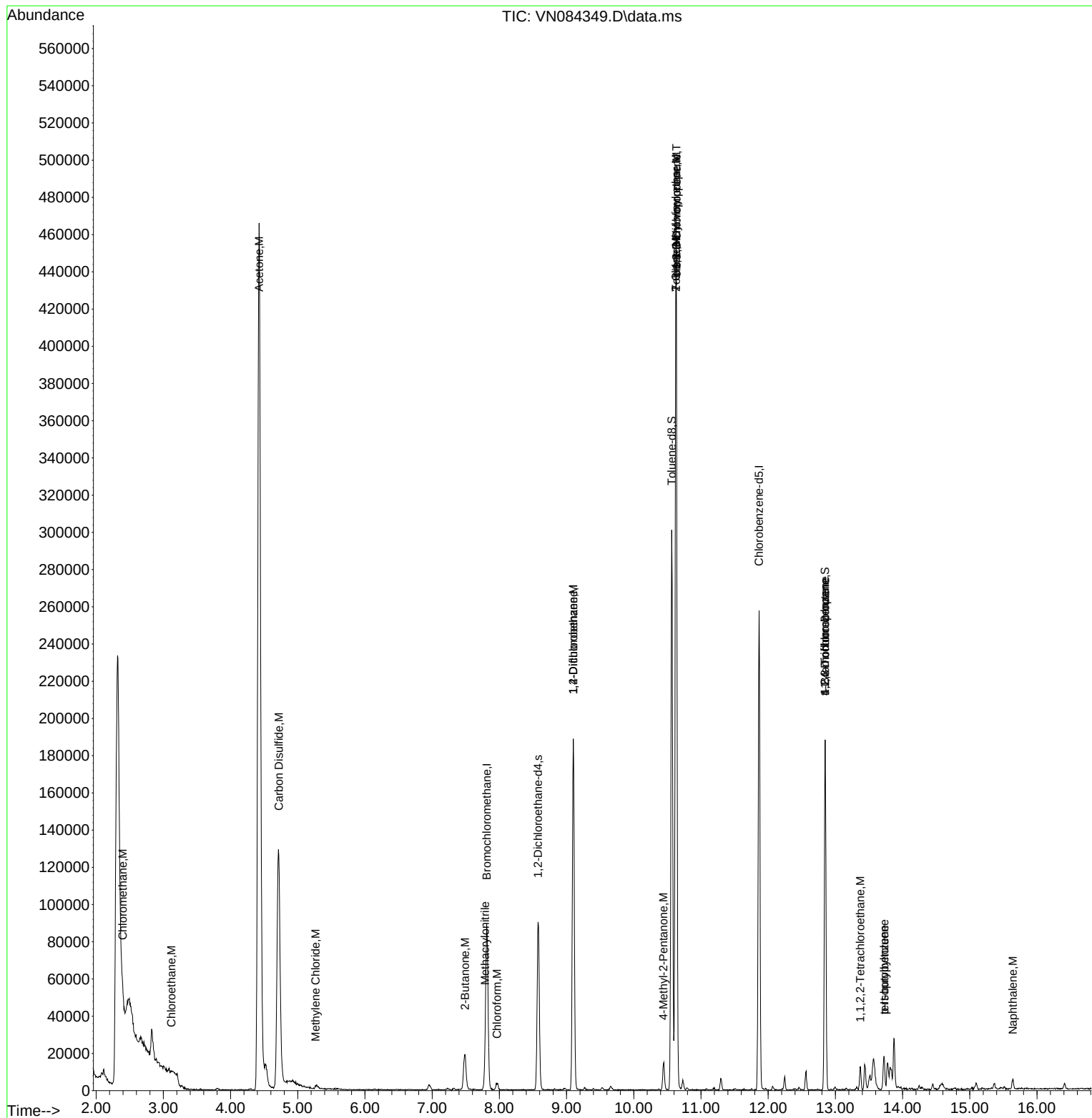
Internal Standards						
1) Bromochloromethane	7.812	128	30781	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	158595	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	149399	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	77489	31.269	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.233%
60) 4-Bromofluorobenzene	12.847	95	65501	26.565	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	88.533%
63) Toluene-d8	10.565	98	201772	29.153	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.167%
Target Compounds						
					Qvalue	
3) Chloromethane	2.395	50	909	0.425	ug/l #	42
6) Chloroethane	3.118	64	866	0.630	ug/l #	67
15) Acetone	4.424	58	280218	909.997	ug/l	95
16) Carbon Disulfide	4.718	76	6913	1.211	ug/l	95
18) Methylene Chloride	5.265	84	506	0.234	ug/l #	59
25) Chloroform	7.965	83	4083	1.052	ug/l	99
30) 2-Butanone	7.488	43	33526	24.187	ug/l #	95
35) Methacrylonitrile	7.788	41	761	0.515	ug/l #	24
36) 1,2-Dichloroethane	9.100	62	5966	2.196	ug/l #	75
48) t-1,3-Dichloropropene	10.635	75	2674	0.878	ug/l #	1
49) cis-1,3-Dichloropropene	10.635	75	2674	0.837	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.629	63	24418	17.459	ug/l #	1
58) 4-Methyl-2-Pentanone	10.441	43	11054	3.972	ug/l #	68
62) Toluene	10.629	91	355507	40.647	ug/l	100
71) 1,1,2,2-Tetrachloroethane	13.370	83	756	0.276	ug/l #	42
72) 1,2,3-Trichloropropane	12.847	75	34747	14.786	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	34747	34.601	ug/l #	12
79) tert-butylbenzene	13.729	119	7489	1.175	ug/l	61
82) p-Isopropyltoluene	13.729	119	7489	1.014	ug/l	97
91) Naphthalene	15.641	128	5304	0.780	ug/l #	94

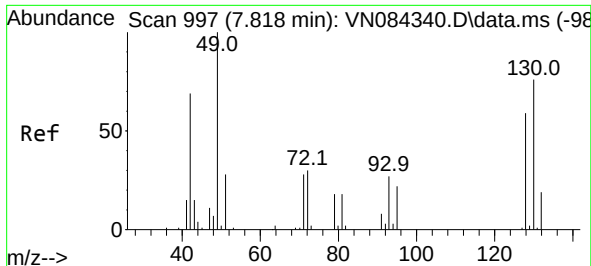
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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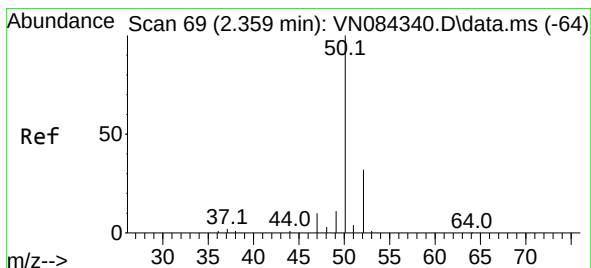
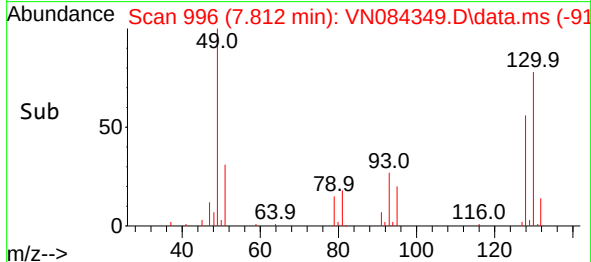
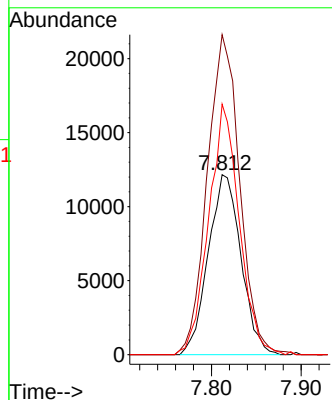
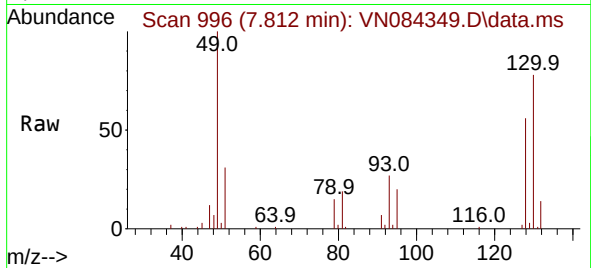




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

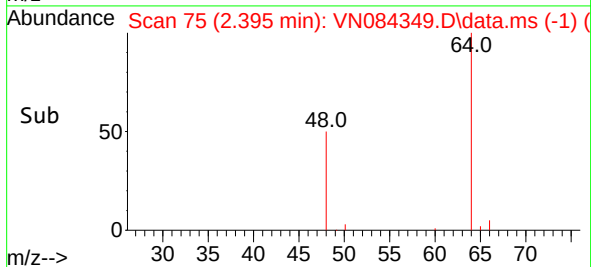
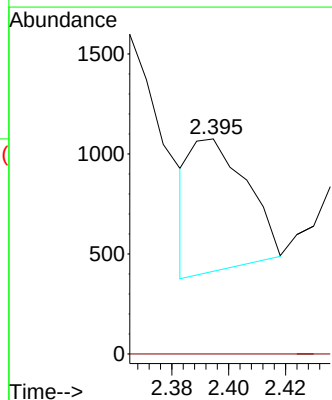
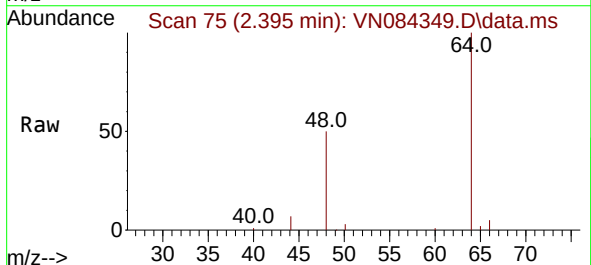
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

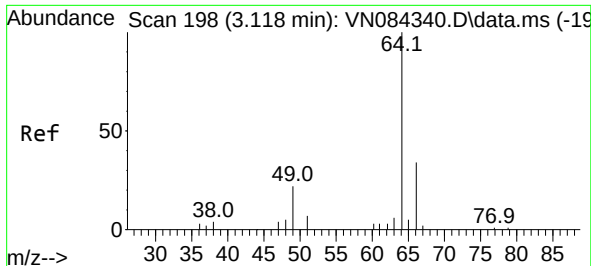
Tgt Ion:128 Resp: 30781
Ion Ratio Lower Upper
128 100
49 175.9 0.0 430.0
130 130.1 0.0 329.8



#3
Chloromethane
Concen: 0.425 ug/l
RT: 2.395 min Scan# 75
Delta R.T. 0.035 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

Tgt Ion: 50 Resp: 909
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.6#

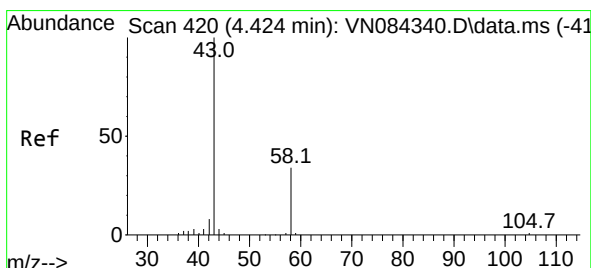
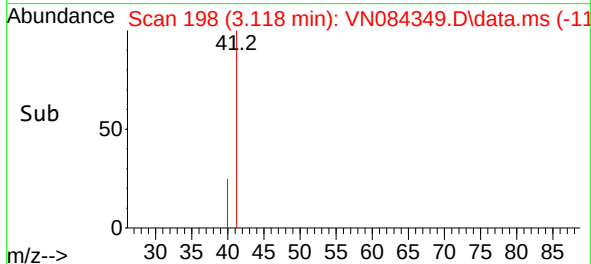
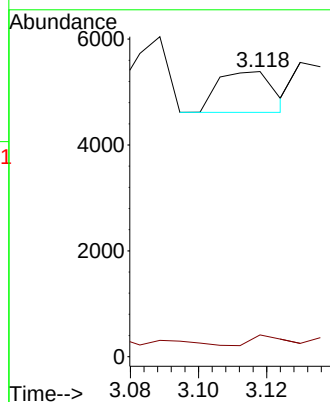
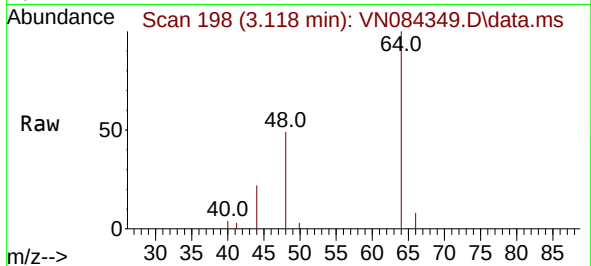




#6
Chloroethane
Concen: 0.630 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.000 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

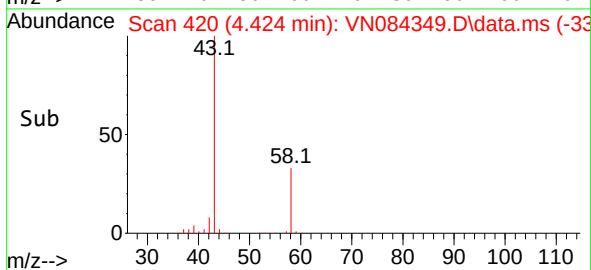
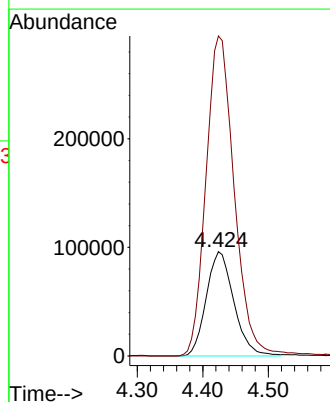
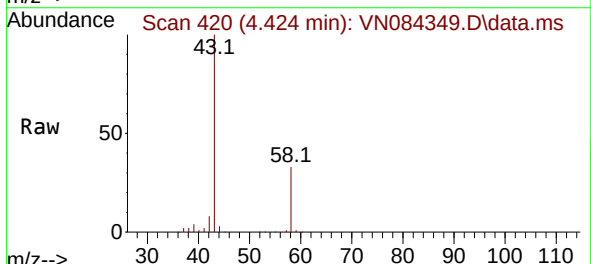
Instrument :
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ClientSampleId :
002-35TH-AVE(SEP)

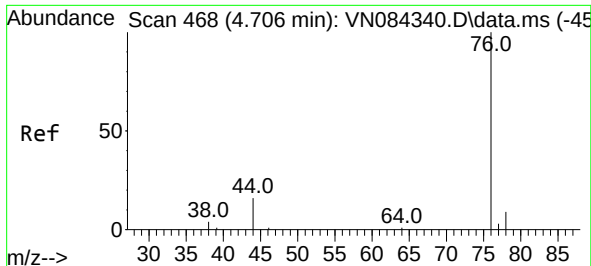
Tgt Ion: 64 Resp: 866
Ion Ratio Lower Upper
64 100
66 15.3 27.7 41.5#



#15
Acetone
Concen: 909.997 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

Tgt Ion: 58 Resp: 280218
Ion Ratio Lower Upper
58 100
43 306.2 237.5 356.3

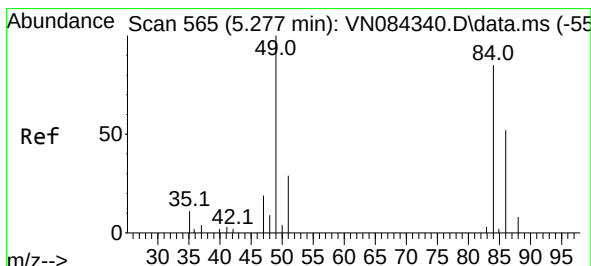
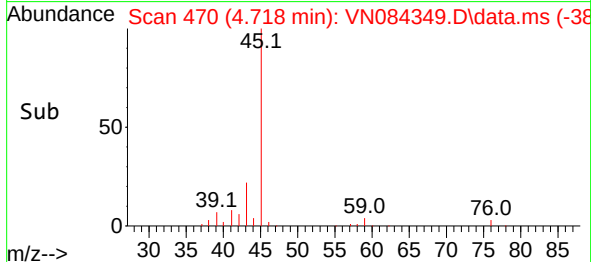
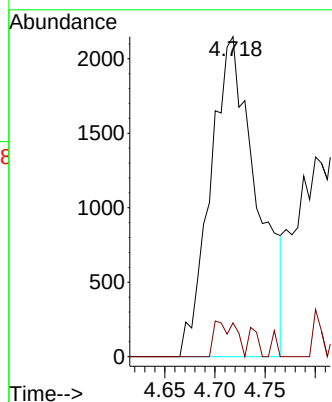
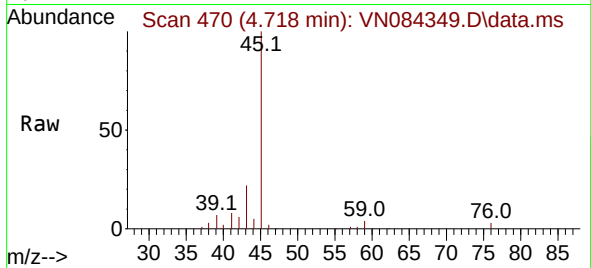




#16
Carbon Disulfide
Concen: 1.211 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

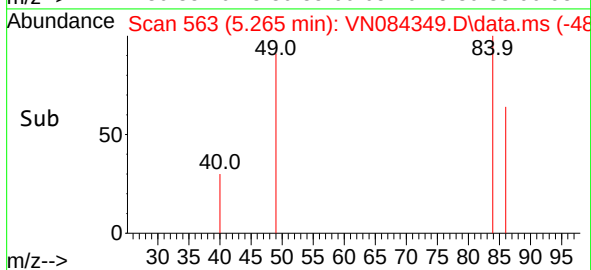
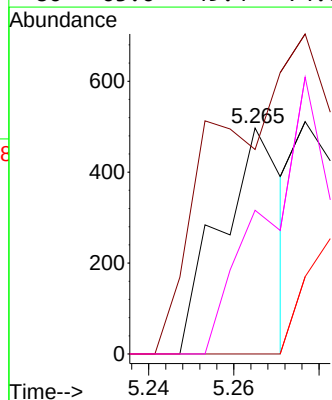
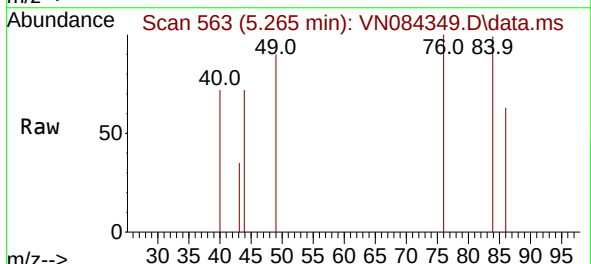
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

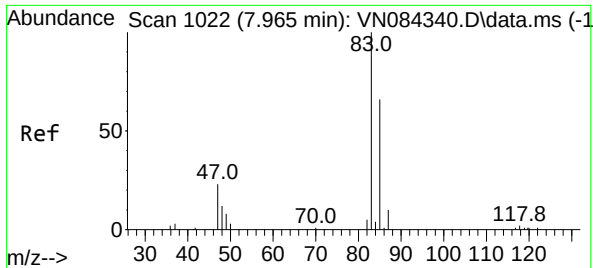
Tgt Ion: 76 Resp: 6913
Ion Ratio Lower Upper
76 100
78 10.6 7.1 10.7



#18
Methylene Chloride
Concen: 0.234 ug/l
RT: 5.265 min Scan# 563
Delta R.T. -0.012 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

Tgt Ion: 84 Resp: 506
Ion Ratio Lower Upper
84 100
49 56.5 94.6 142.0#
51 0.0 27.3 40.9#
86 63.6 49.4 74.0





#25

Chloroform

Concen: 1.052 ug/l

RT: 7.965 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VN084349.D

Acq: 08 Oct 2024 15:17

Instrument :

MSVOA_N

ClientSampleId :

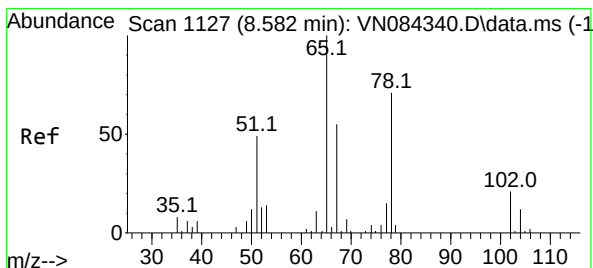
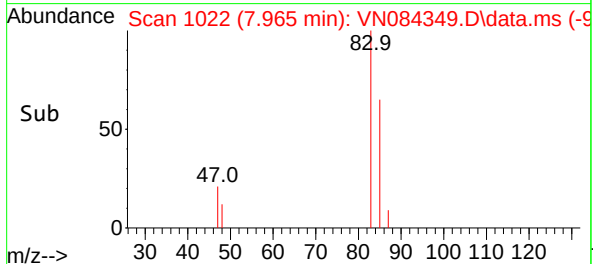
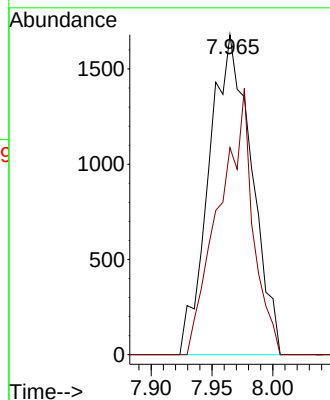
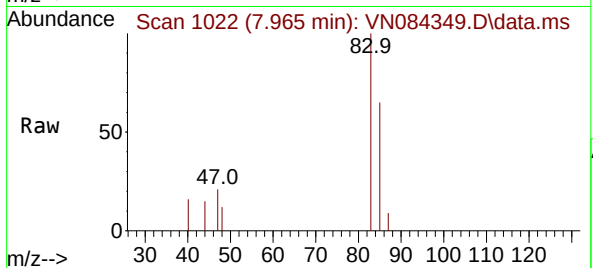
002-35TH-AVE(SEP)

Tgt Ion: 83 Resp: 4083

Ion Ratio Lower Upper

83 100

85 64.7 52.4 78.6



#27

1,2-Dichloroethane-d4

Concen: 31.269 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN084349.D

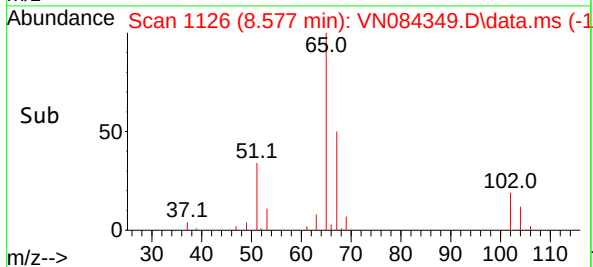
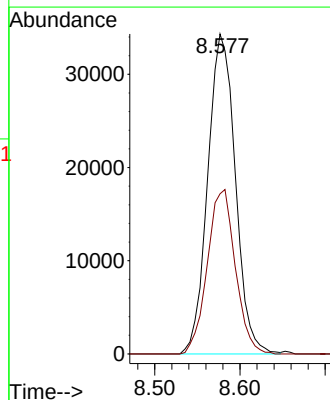
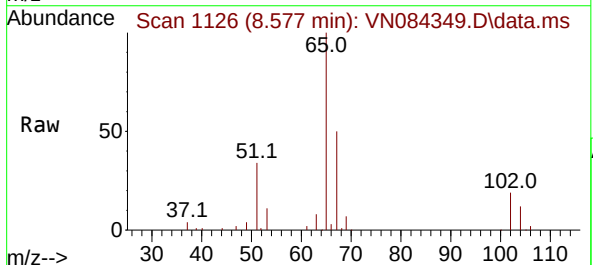
Acq: 08 Oct 2024 15:17

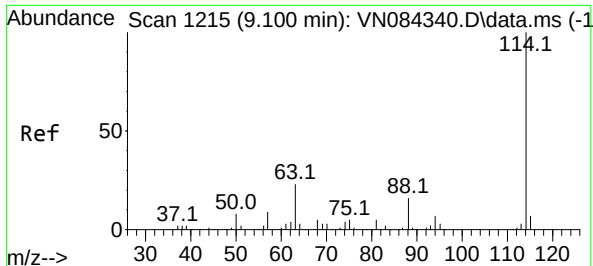
Tgt Ion: 65 Resp: 77489

Ion Ratio Lower Upper

65 100

67 52.1 41.5 62.3

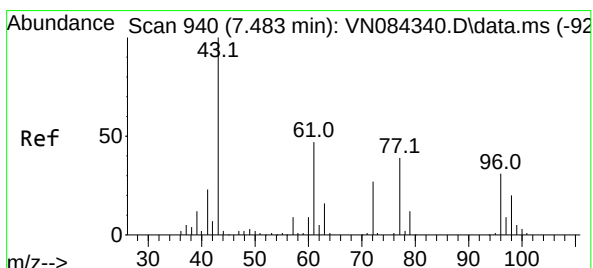
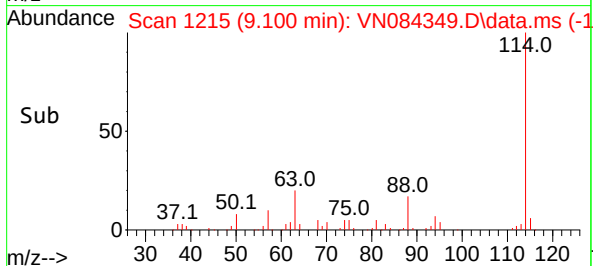
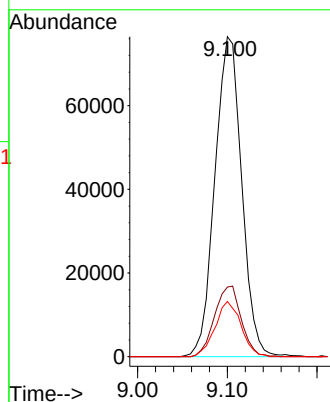
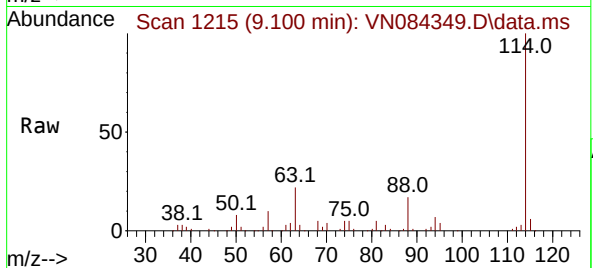




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

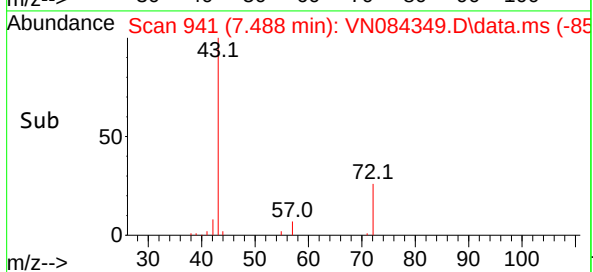
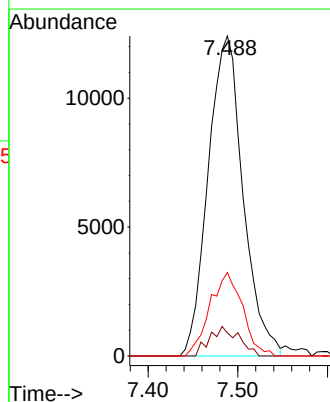
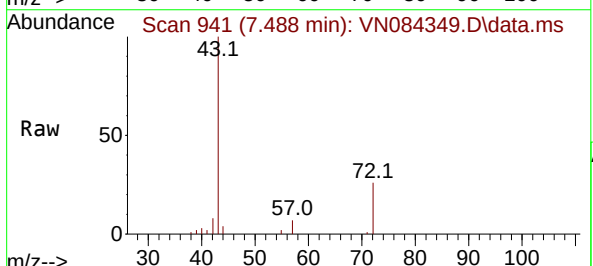
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002-35TH-AVE(SEP)

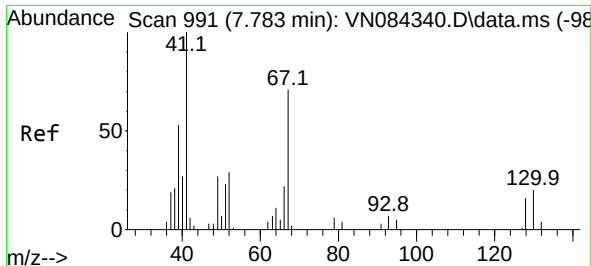
Tgt Ion:114 Resp: 158595
Ion Ratio Lower Upper
114 100
63 22.0 17.4 26.0
88 16.7 13.2 19.8



#30
2-Butanone
Concen: 24.187 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

Tgt Ion: 43 Resp: 33526
Ion Ratio Lower Upper
43 100
57 5.6 6.6 9.8#
72 24.4 21.3 31.9

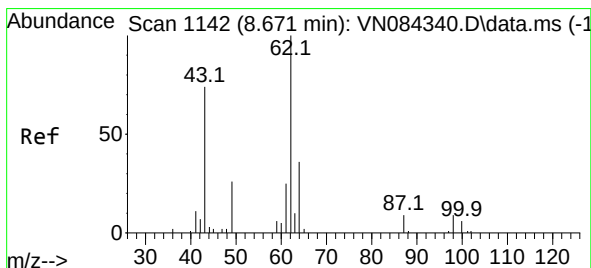
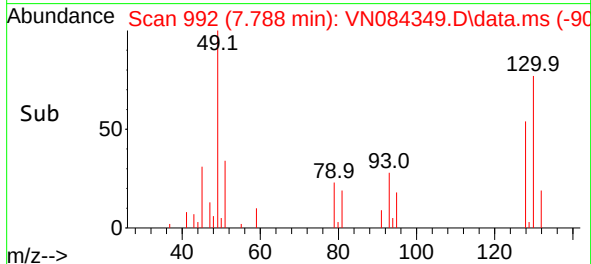
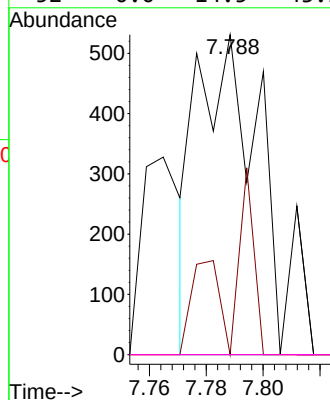
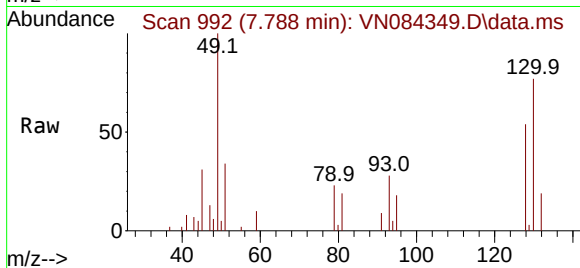




#35
Methacrylonitrile
Concen: 0.515 ug/l
RT: 7.788 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

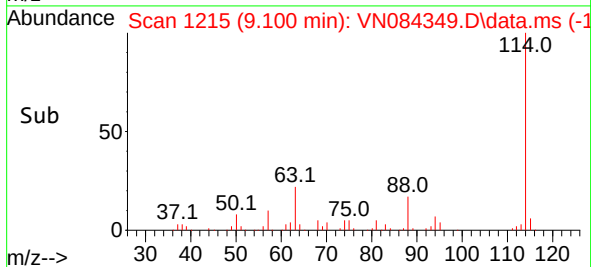
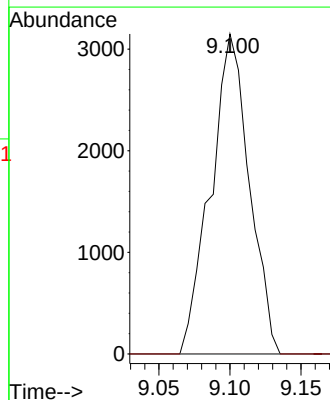
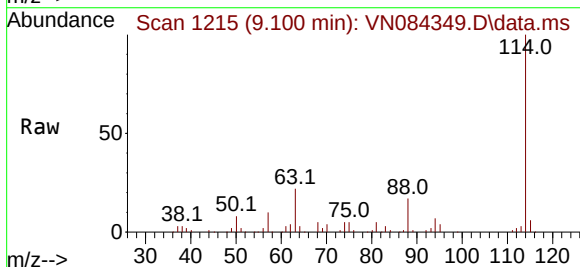
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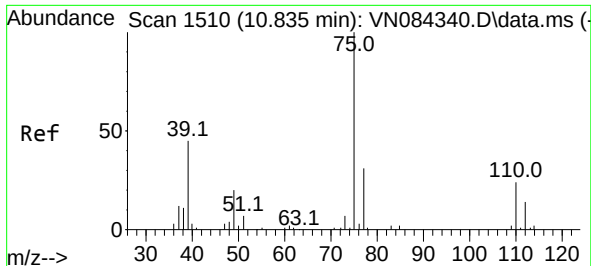
Tgt Ion:	41	Resp:	761
Ion	Ratio	Lower	Upper
41	100		
39	0.0	26.4	79.0#
67	0.0	35.7	107.1#
52	0.0	14.5	43.5#



#36
1,2-Dichloroethane
Concen: 2.196 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.429 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

Tgt Ion:	62	Resp:	5966
Ion	Ratio	Lower	Upper
62	100		
98	0.0	7.3	10.9#

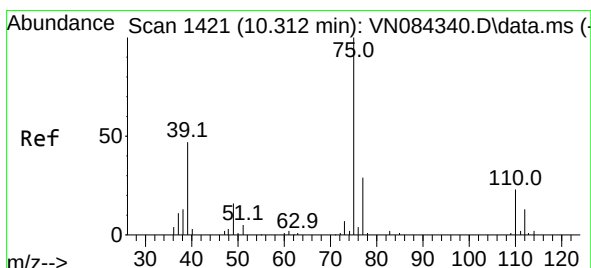
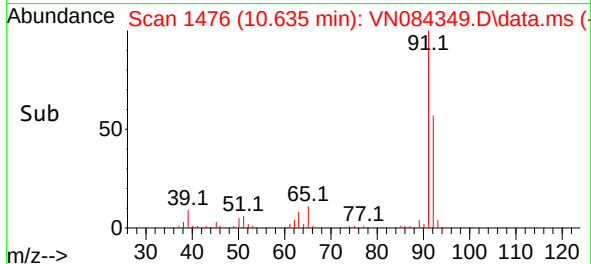
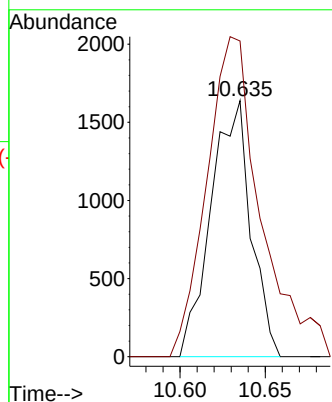
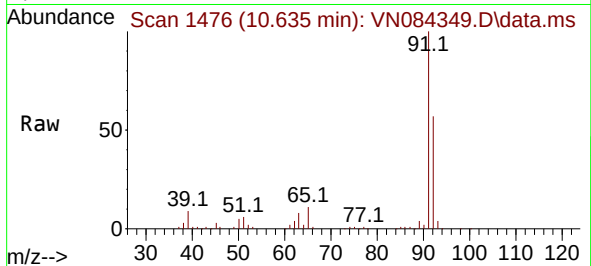




#48
 t-1,3-Dichloropropene
 Concen: 0.878 ug/l
 RT: 10.635 min Scan# 1476
 Delta R.T. -0.200 min
 Lab File: VN084349.D
 Acq: 08 Oct 2024 15:17

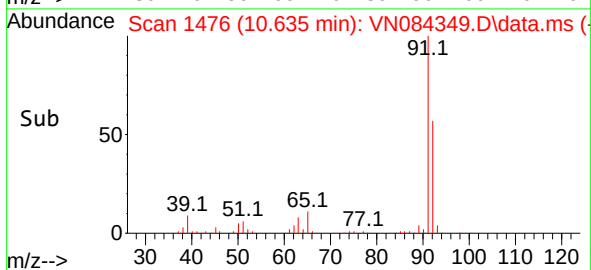
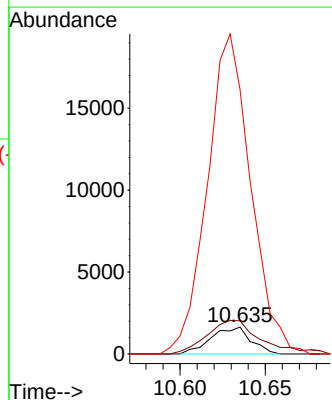
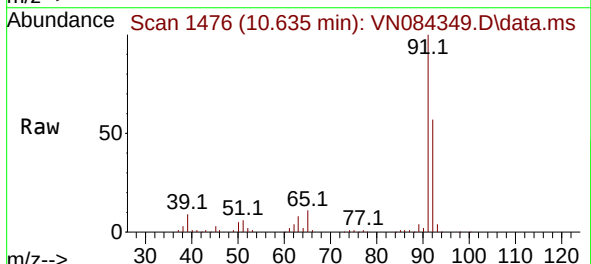
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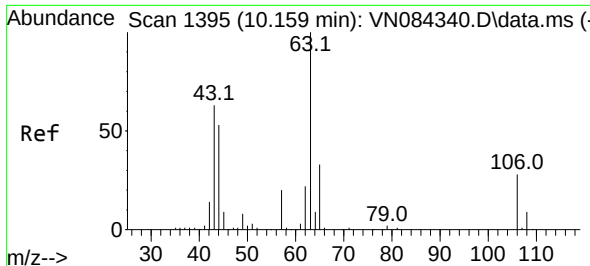
Tgt Ion: 75 Resp: 2674
 Ion Ratio Lower Upper
 75 100
 77 113.4 24.6 37.0#



#49
 cis-1,3-Dichloropropene
 Concen: 0.837 ug/l
 RT: 10.635 min Scan# 1476
 Delta R.T. 0.323 min
 Lab File: VN084349.D
 Acq: 08 Oct 2024 15:17

Tgt Ion: 75 Resp: 2674
 Ion Ratio Lower Upper
 75 100
 77 113.4 22.9 34.3#
 39 918.5 37.4 56.2#

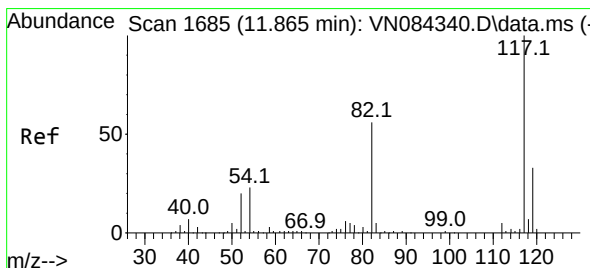
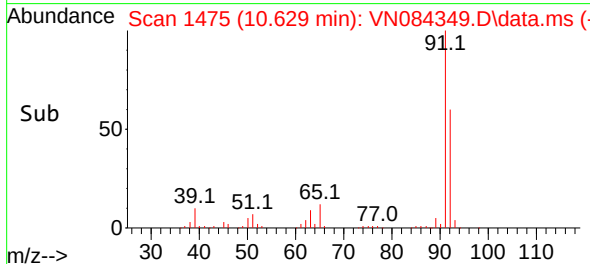
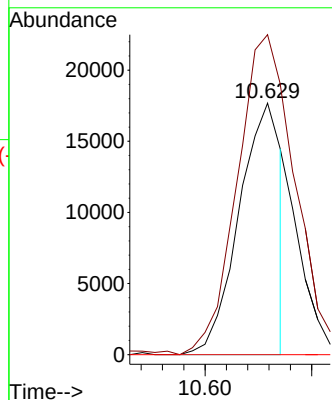
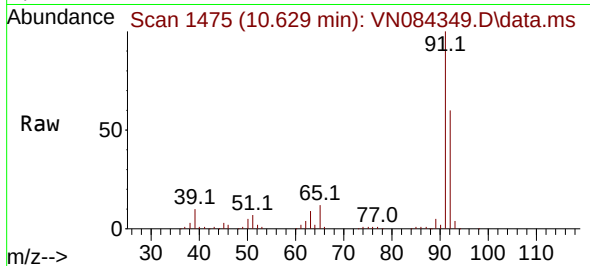




#55
2-Chloroethyl vinyl ether
Concen: 17.459 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.470 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

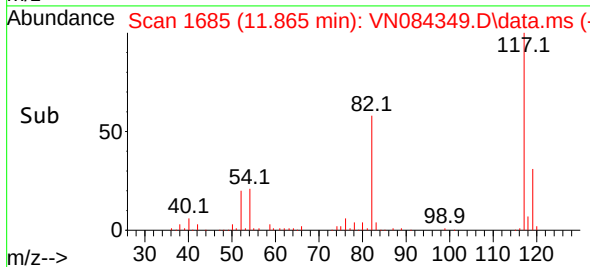
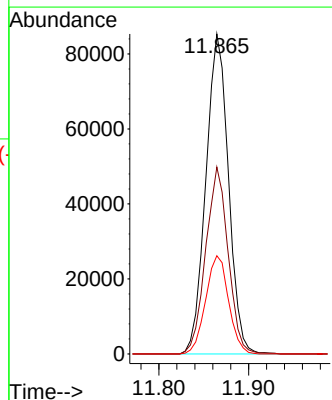
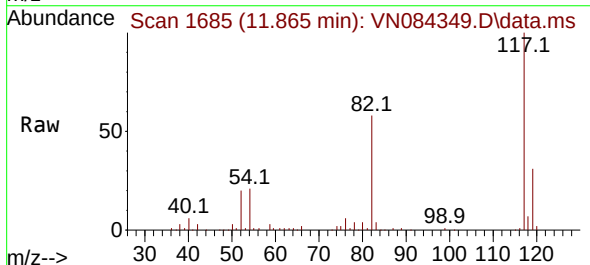
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

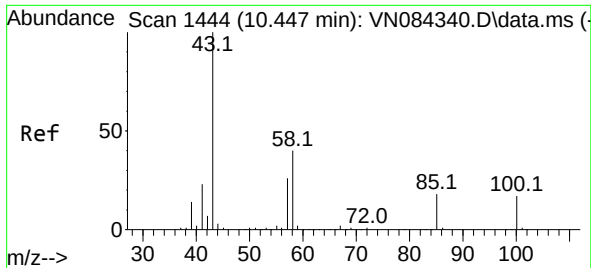
Tgt Ion: 63 Resp: 24418
Ion Ratio Lower Upper
63 100
65 133.1 25.6 38.4#
106 0.0 21.6 32.4#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

Tgt Ion: 117 Resp: 149399
Ion Ratio Lower Upper
117 100
82 58.0 46.2 69.4
119 31.1 25.4 38.2

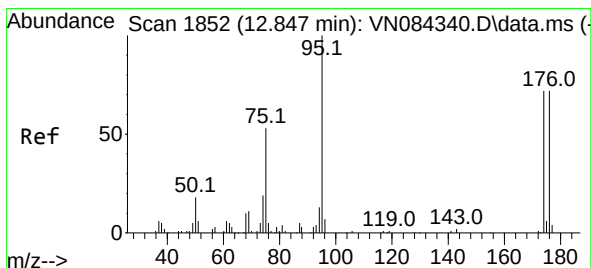
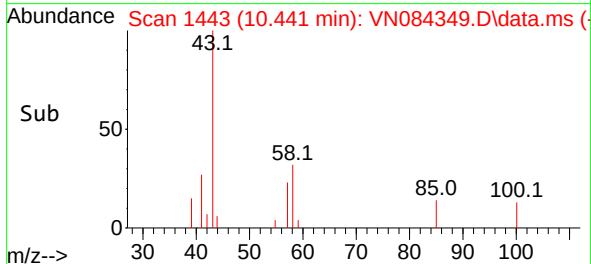
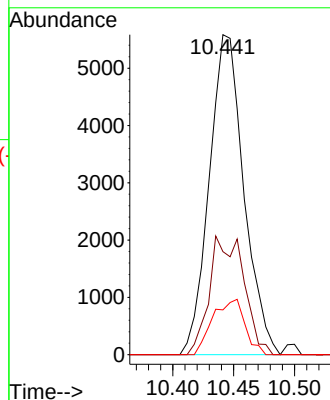
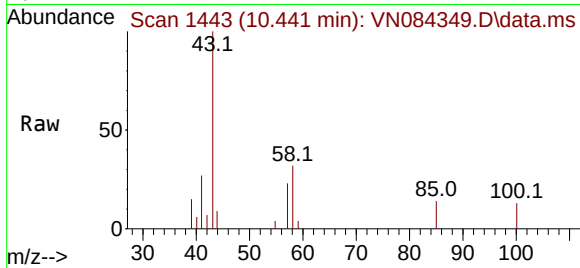




#58
4-Methyl-2-Pentanone
Concen: 3.972 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

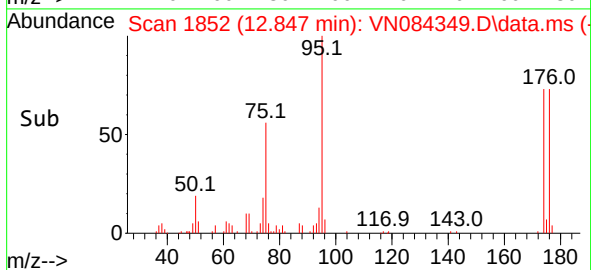
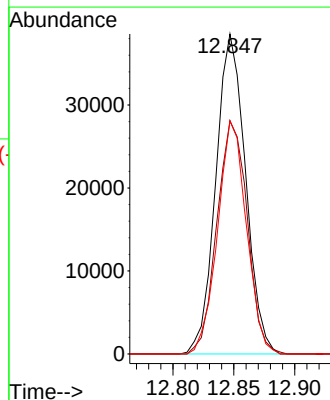
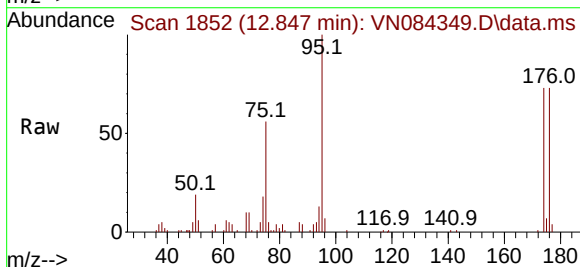
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

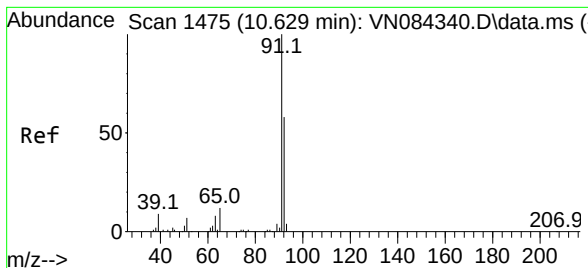
Tgt Ion:	43	Resp:	11054
Ion	Ratio	Lower	Upper
43	100		
58	22.9	31.9	47.9#
85	0.0	14.6	22.0#



#60
4-Bromofluorobenzene
Concen: 26.565 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

Tgt Ion:	95	Resp:	65501
Ion	Ratio	Lower	Upper
95	100		
174	74.5	58.2	87.2
176	70.7	56.4	84.6





#62

Toluene

Concen: 40.647 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN084349.D

Acq: 08 Oct 2024 15:17

Instrument :

MSVOA_N

ClientSampleId :

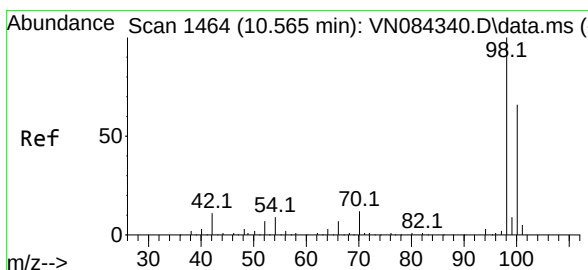
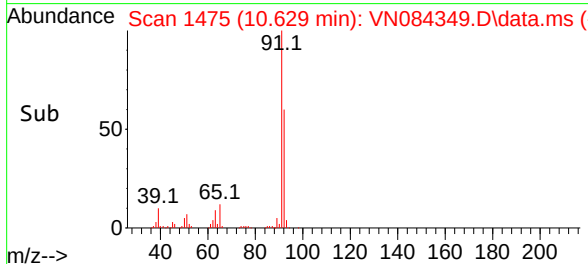
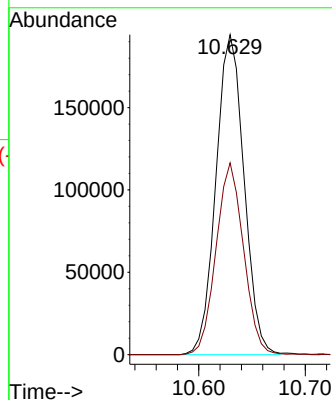
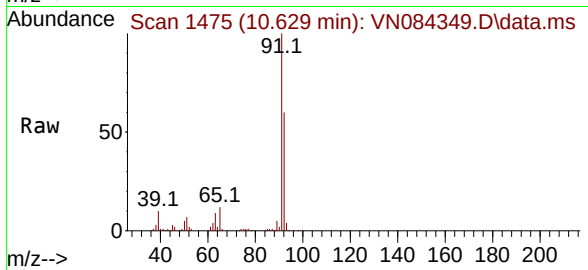
002-35TH-AVE(SEP)

Tgt Ion: 91 Resp: 355507

Ion Ratio Lower Upper

91 100

92 58.7 47.2 70.8



#63

Toluene-d8

Concen: 29.153 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084349.D

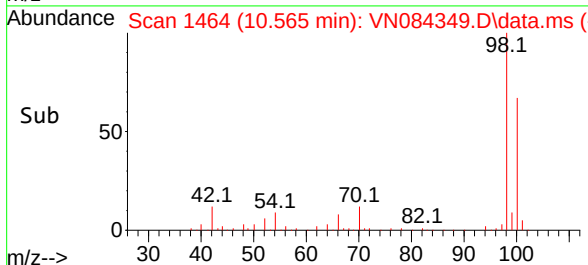
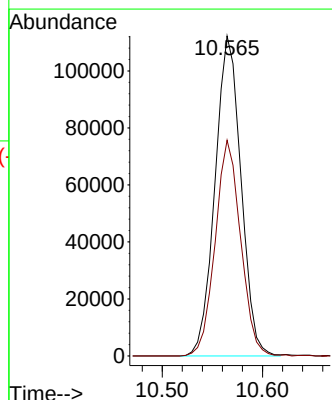
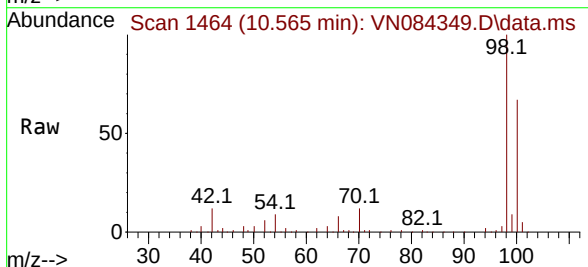
Acq: 08 Oct 2024 15:17

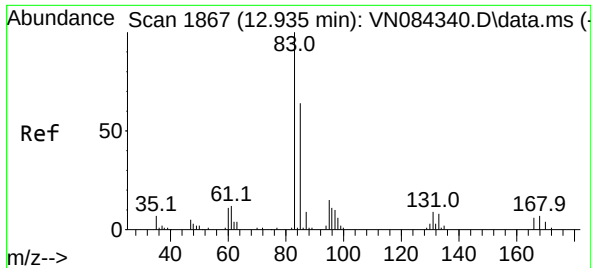
Tgt Ion: 98 Resp: 201772

Ion Ratio Lower Upper

98 100

100 66.0 52.5 78.7

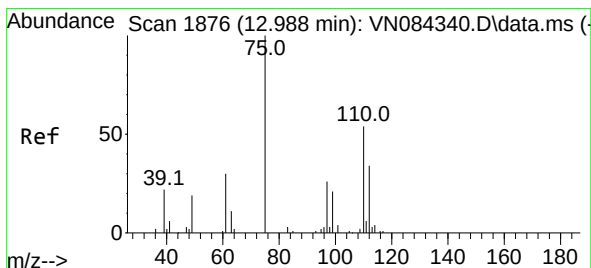
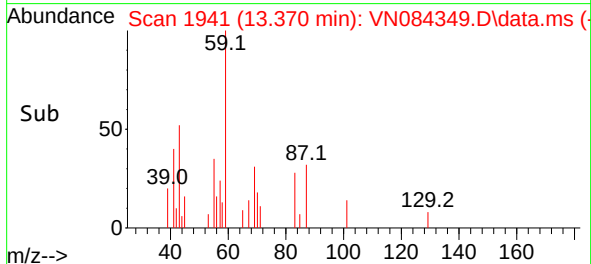
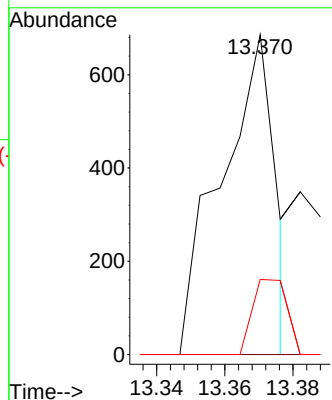
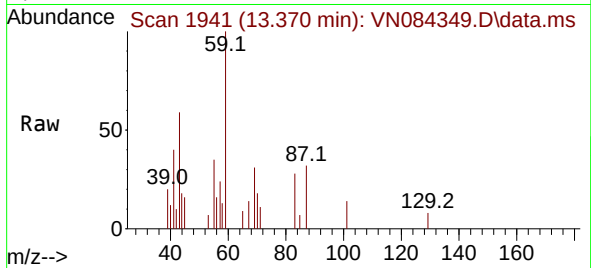




#71
1,1,2-Tetrachloroethane
Concen: 0.276 ug/l
RT: 13.370 min Scan# 1852
Delta R.T. 0.435 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

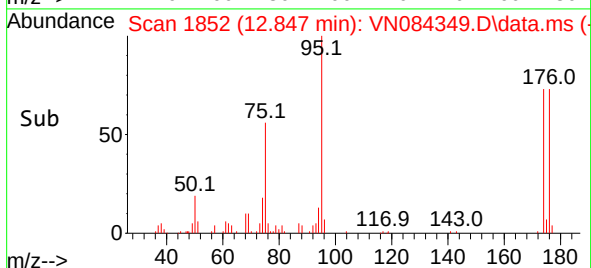
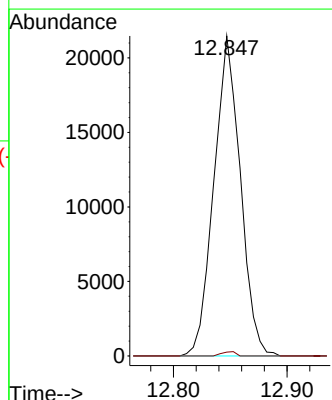
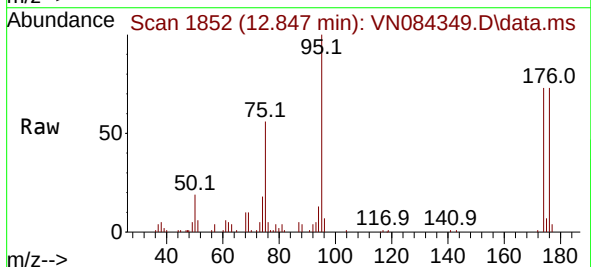
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

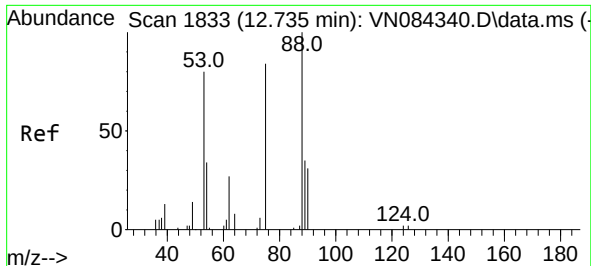
Tgt Ion: 83 Resp: 756
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.3#
85 14.9 32.0 96.2#



#72
1,2,3-Trichloropropane
Concen: 14.786 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

Tgt Ion: 75 Resp: 34747
Ion Ratio Lower Upper
75 100
77 0.7 0.0 414.0

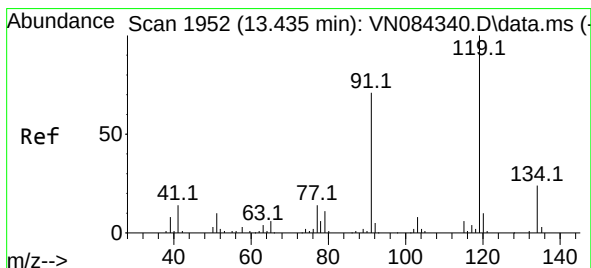
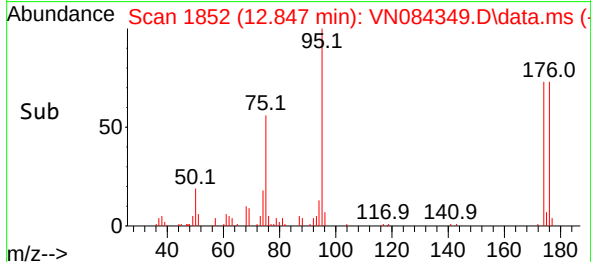
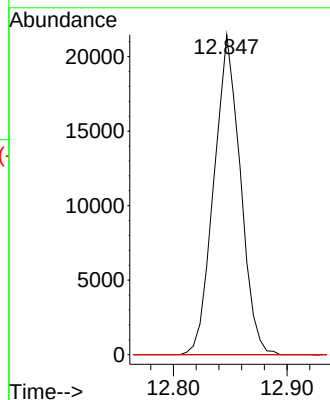
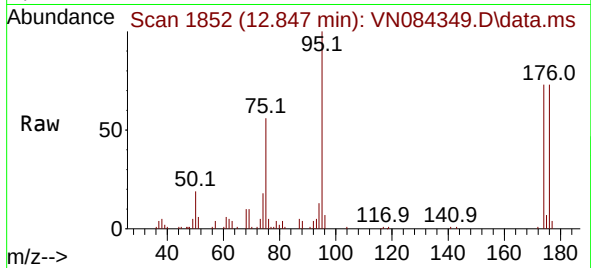




#77
t-1,4-Dichloro-2-butene
Concen: 34.601 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

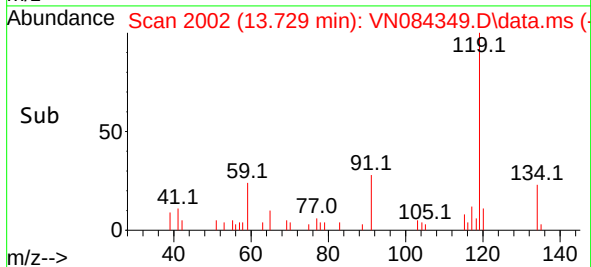
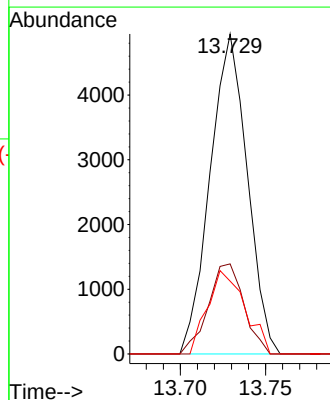
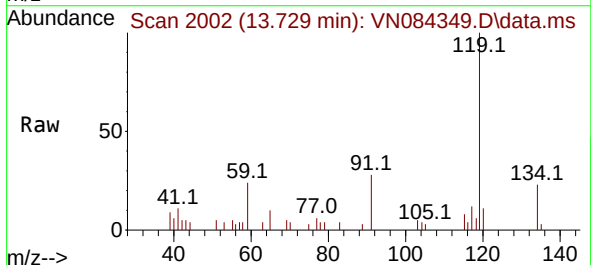
Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

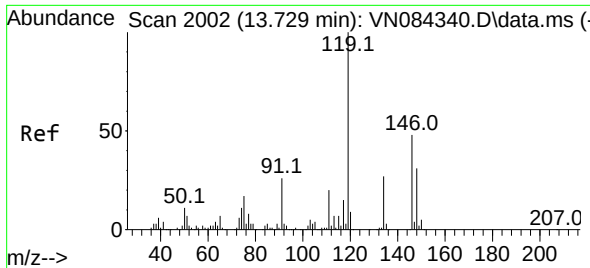
Tgt Ion: 75 Resp: 34747
Ion Ratio Lower Upper
75 100
53 0.0 47.3 142.0#
89 0.0 22.9 68.8#



#79
tert-butylbenzene
Concen: 1.175 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. 0.294 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

Tgt Ion: 119 Resp: 7489
Ion Ratio Lower Upper
119 100
91 27.0 0.0 138.0
134 26.2 0.0 48.8

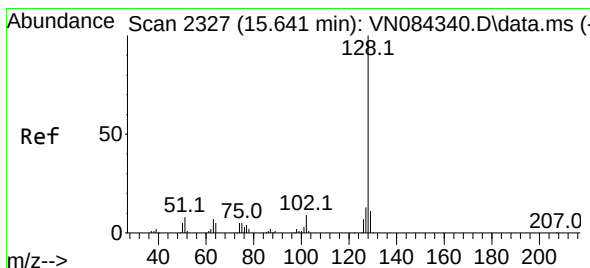
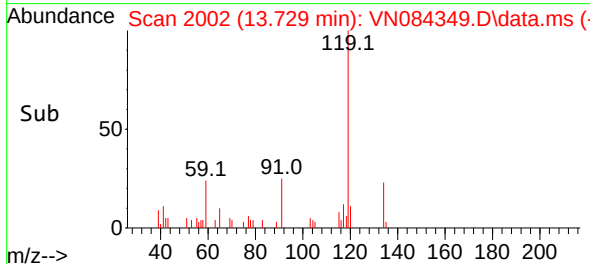
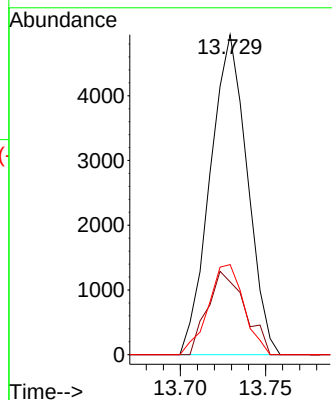
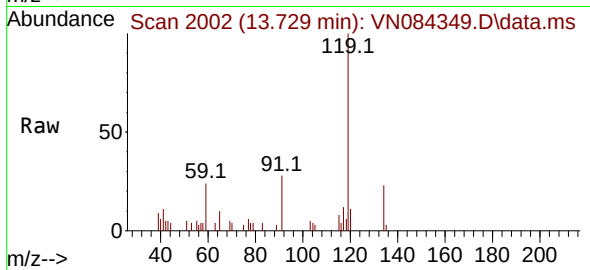




#82
p-Isopropyltoluene
Concen: 1.014 ug/l
RT: 13.729 min Scan# 2002
Delta R.T. -0.000 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

Instrument :
MSVOA_N
ClientSampleId :
002-35TH-AVE(SEP)

Tgt Ion	Resp	Ion Ratio	Lower	Upper
119	7489	100		
134		26.2	0.0	50.2
91		27.0	0.0	50.6



#91
Naphthalene
Concen: 0.780 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. -0.000 min
Lab File: VN084349.D
Acq: 08 Oct 2024 15:17

Tgt Ion	Resp	Ion Ratio	Lower	Upper
128	5304	100		
127		12.4	10.3	15.5
129		6.7	8.8	13.2

