

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084513.D
 Acq On : 25 Oct 2024 14:03
 Operator : JC\MD
 Sample : P4528-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 241023068-02-VOA

Quant Time: Oct 26 05:29:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 2024
 Response via : Initial Calibration

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

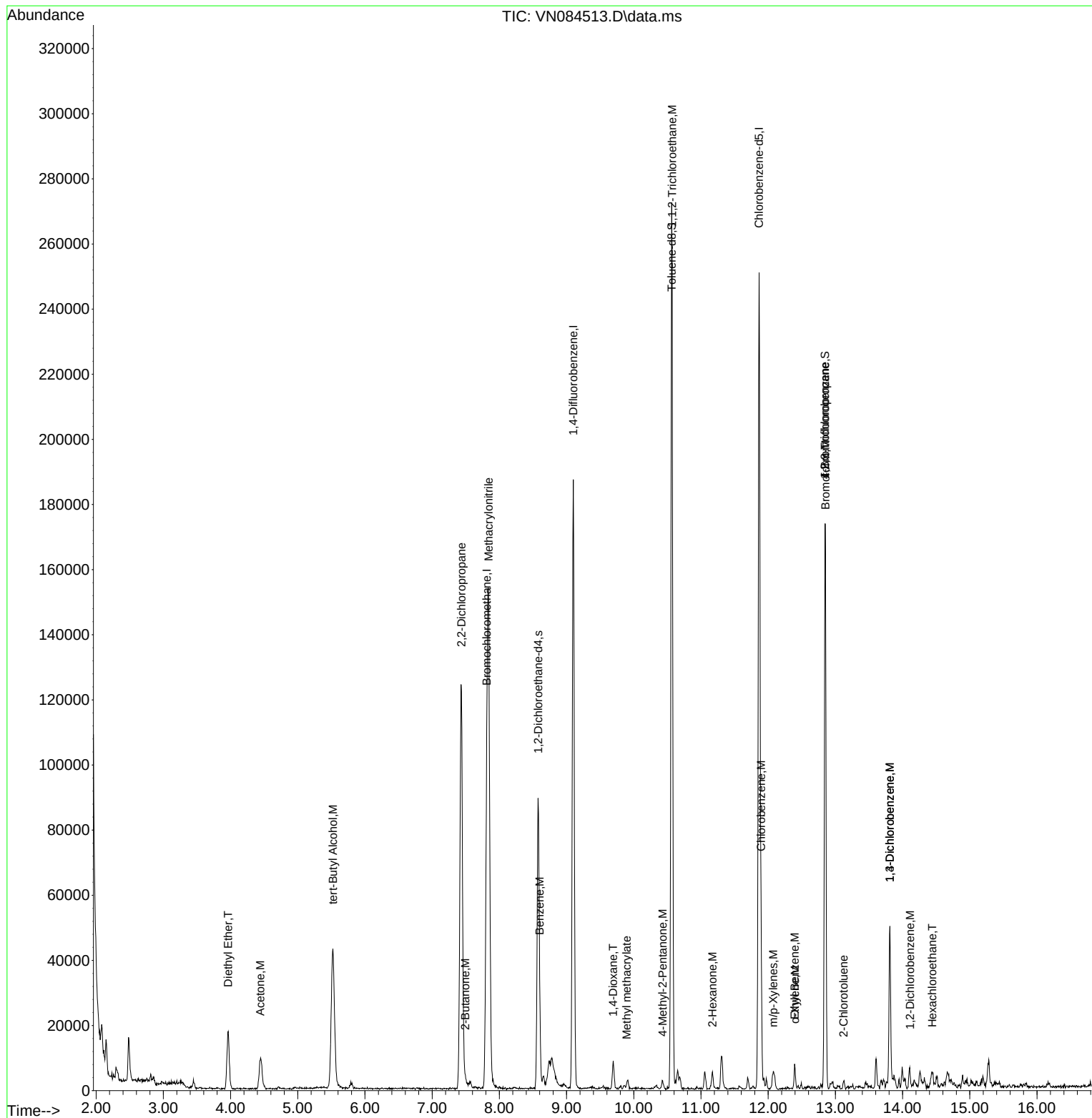
Internal Standards						
1) Bromochloromethane	7.812	128	30028	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	157495	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	139902	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	71428	29.546	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.500%		
60) 4-Bromofluorobenzene	12.847	95	61605	26.681	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	88.933%		
63) Toluene-d8	10.565	98	184765	28.508	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.033%		
Target Compounds						Qvalue
8) Diethyl Ether	3.965	74	10018	8.176	ug/l	99
15) Acetone	4.442	58	921	3.066	ug/l	70
23) tert-Butyl Alcohol	5.524	59	79263	196.503	ug/l #	100
30) 2-Butanone	7.494	43	668	0.485	ug/l #	55
31) 2,2-Dichloropropane	7.436	77	8087	2.662	ug/l #	65
34) Benzene	8.600	78	6050	0.748	ug/l #	1
35) Methacrylonitrile	7.841	41	56280	38.324	ug/l #	46
45) 1,4-Dioxane	9.694	88	5167	128.996	ug/l #	91
46) Methyl methacrylate	9.894	41	438	0.204	ug/l #	31
50) 1,1,2-Trichloroethane	10.571	97	5889	3.176	ug/l #	1
56) Bromoform	12.853	173	424	0.292	ug/l #	1
58) 4-Methyl-2-Pentanone	10.429	43	1933	0.742	ug/l #	43
59) 2-Hexanone	11.171	43	4384	2.264	ug/l #	36
64) Chlorobenzene	11.894	112	27605	5.416	ug/l	98
66) Ethyl Benzene	12.394	91	4338	0.488	ug/l	89
67) m/p-Xylenes	12.076	106	1777	0.526	ug/l #	68
68) o-Xylene	12.400	106	1731	0.532	ug/l	82
72) 1,2,3-Trichloropropane	12.847	75	31964	14.525	ug/l	1
75) 2-Chlorotoluene	13.123	91	1627	0.265	ug/l	79
83) 1,3-Dichlorobenzene	13.812	146	20599	5.507	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	20599	5.546	ug/l	97
86) Hexachloroethane	14.441	117	536	0.402	ug/l #	16
87) 1,2-Dichlorobenzene	14.112	146	1558	0.431	ug/l	93

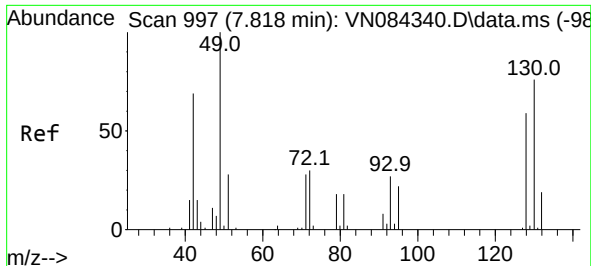
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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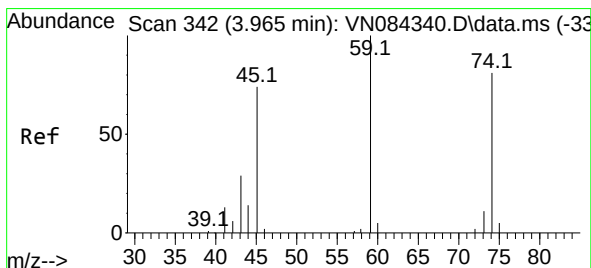
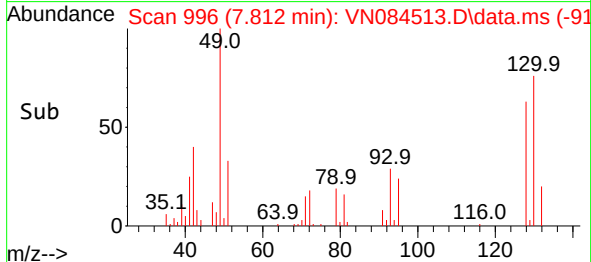
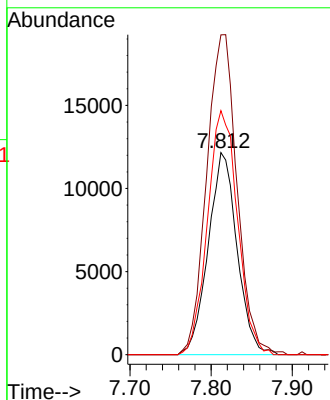
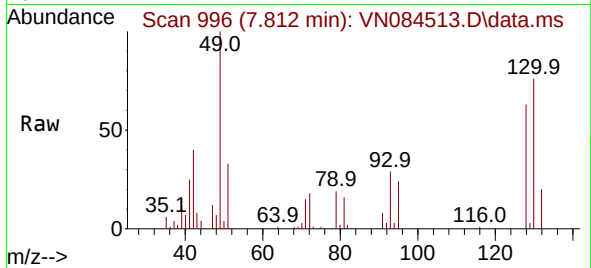




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.006 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

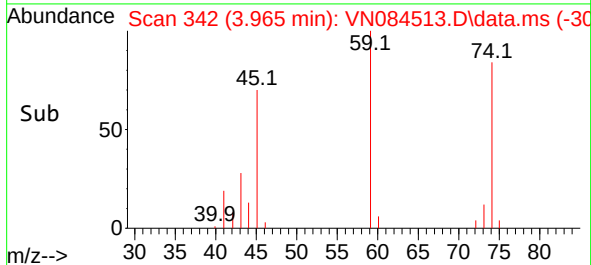
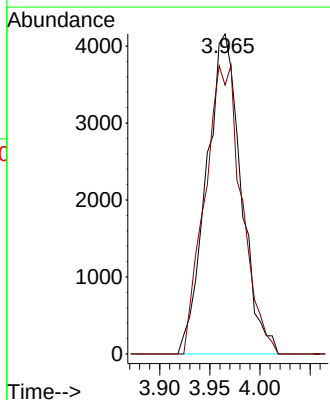
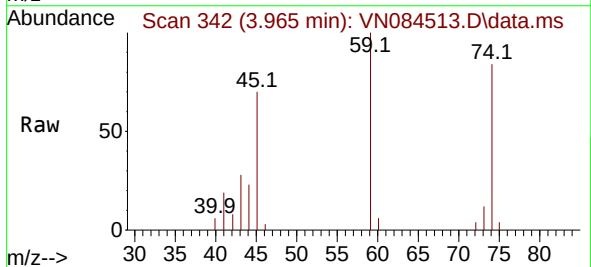
Instrument :
MSVOA_N
ClientSampleId :
241023068-02-VOA

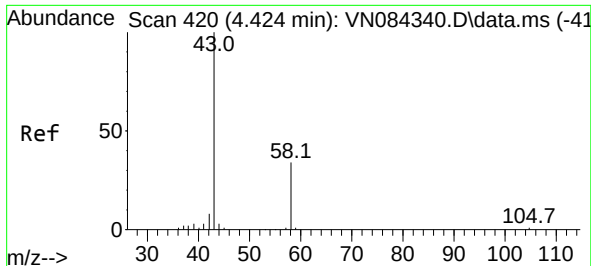
Tgt Ion:128 Resp: 30028
Ion Ratio Lower Upper
128 100
49 166.7 0.0 430.0
130 126.0 0.0 329.8



#8
Diethyl Ether
Concen: 8.176 ug/l
RT: 3.965 min Scan# 342
Delta R.T. 0.000 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

Tgt Ion: 74 Resp: 10018
Ion Ratio Lower Upper
74 100
45 95.6 19.2 173.2

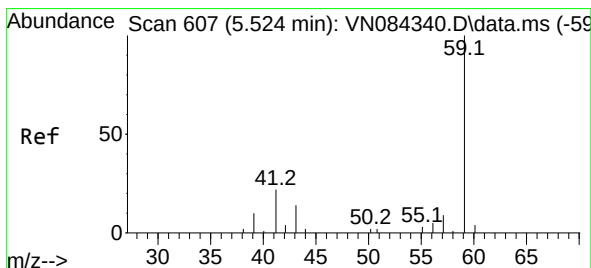
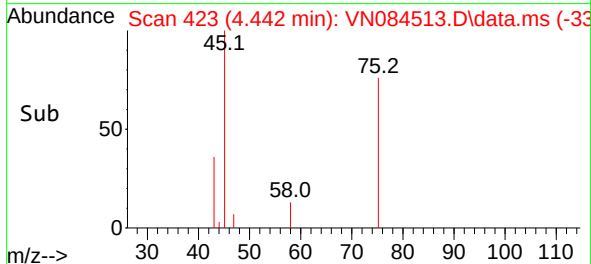
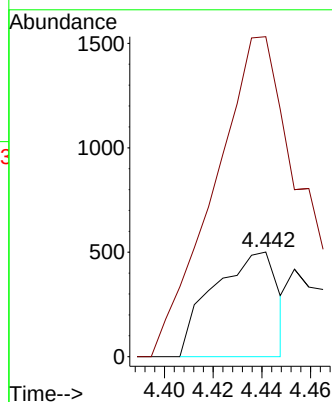
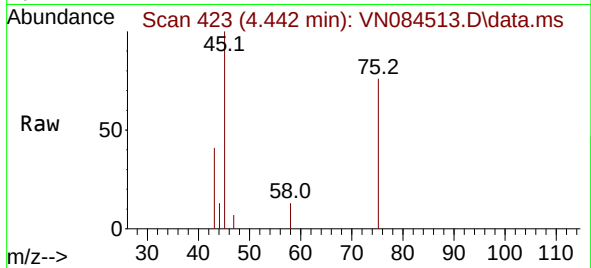




#15
Acetone
Concen: 3.066 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

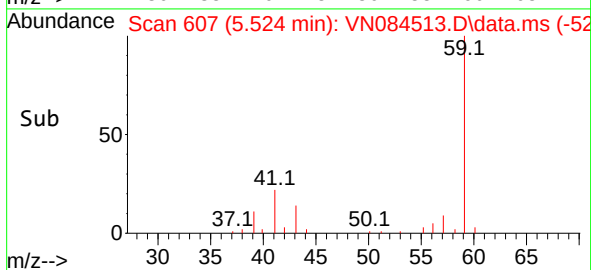
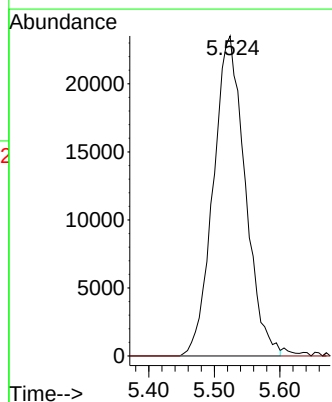
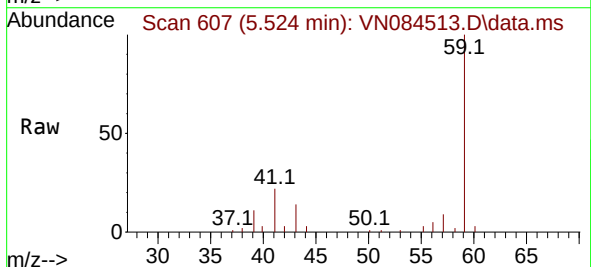
Instrument :
MSVOA_N
ClientSampleId :
241023068-02-VOA

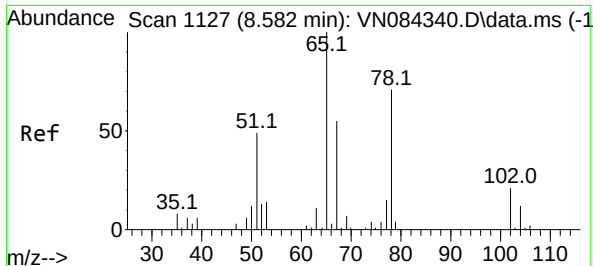
Tgt Ion: 58 Resp: 921
Ion Ratio Lower Upper
58 100
43 238.9 237.5 356.3



#23
tert-Butyl Alcohol
Concen: 196.503 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.000 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

Tgt Ion: 59 Resp: 79263
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#27

1,2-Dichloroethane-d4

Concen: 29.546 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN084513.D

Acq: 25 Oct 2024 14:03

Instrument :

MSVOA_N

ClientSampleId :

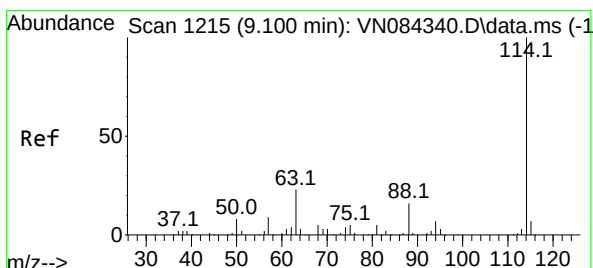
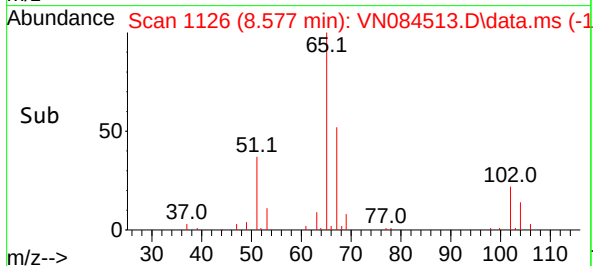
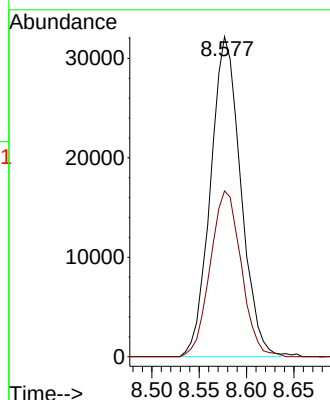
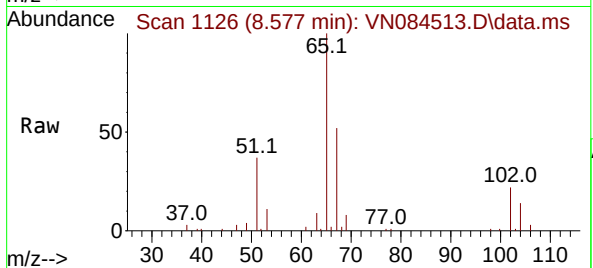
241023068-02-VOA

Tgt Ion: 65 Resp: 71428

Ion Ratio Lower Upper

65 100

67 53.0 41.5 62.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084513.D

Acq: 25 Oct 2024 14:03

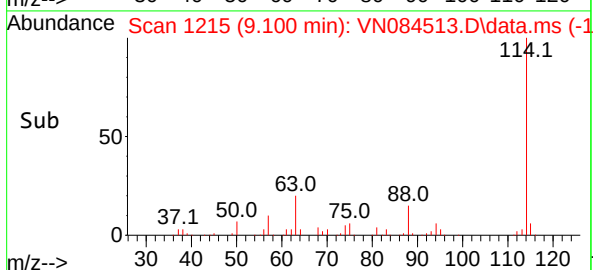
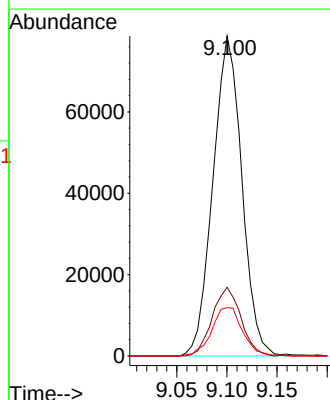
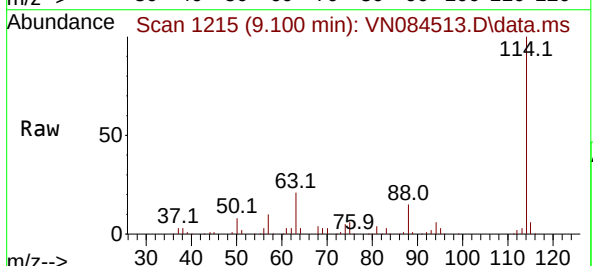
Tgt Ion:114 Resp: 157495

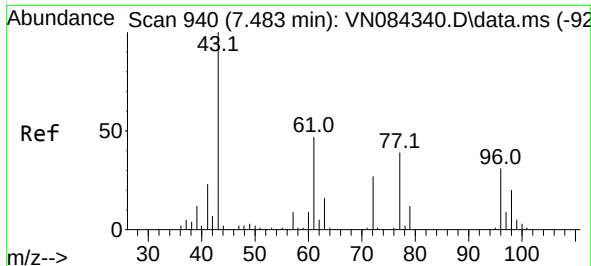
Ion Ratio Lower Upper

114 100

63 21.3 17.4 26.0

88 16.1 13.2 19.8





#30

2-Butanone

Concen: 0.485 ug/l

RT: 7.494 min Scan# 941

Delta R.T. 0.012 min

Lab File: VN084513.D

Acq: 25 Oct 2024 14:03

Instrument :

MSVOA_N

ClientSampleId :

241023068-02-VOA

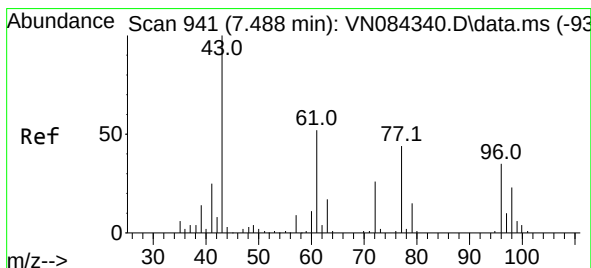
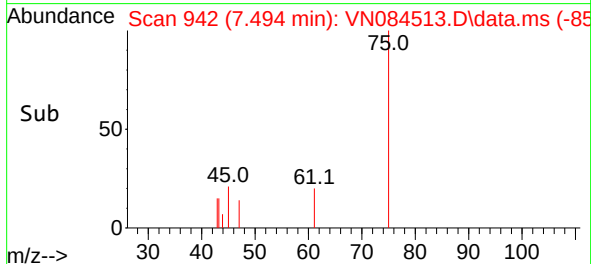
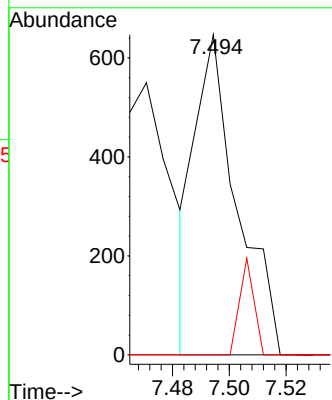
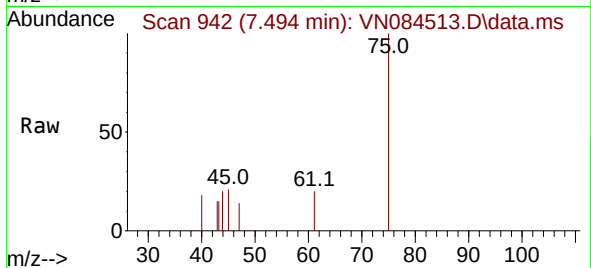
Tgt Ion: 43 Resp: 668

Ion Ratio Lower Upper

43 100

57 0.0 6.6 9.8#

72 0.0 21.3 31.9#



#31

2,2-Dichloropropane

Concen: 2.662 ug/l

RT: 7.436 min Scan# 932

Delta R.T. -0.053 min

Lab File: VN084513.D

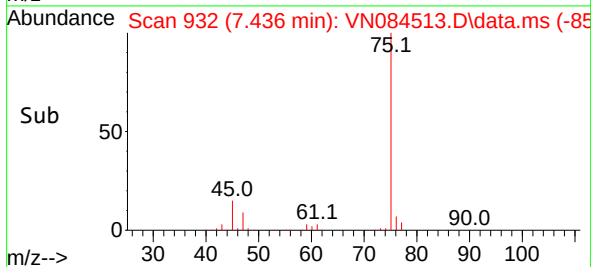
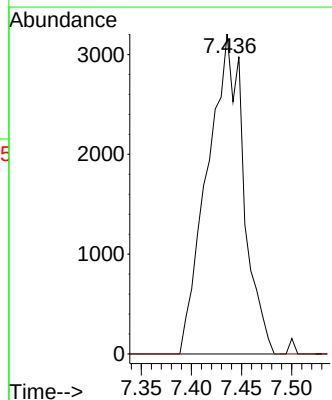
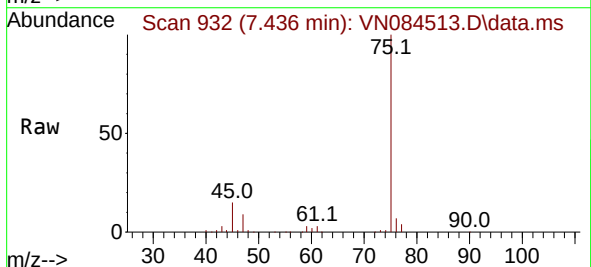
Acq: 25 Oct 2024 14:03

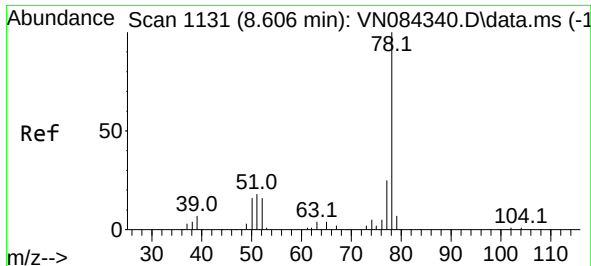
Tgt Ion: 77 Resp: 8087

Ion Ratio Lower Upper

77 100

97 0.0 11.5 17.3#





#34

Benzene

Concen: 0.748 ug/l

RT: 8.600 min Scan# 11

Delta R.T. -0.006 min

Lab File: VN084513.D

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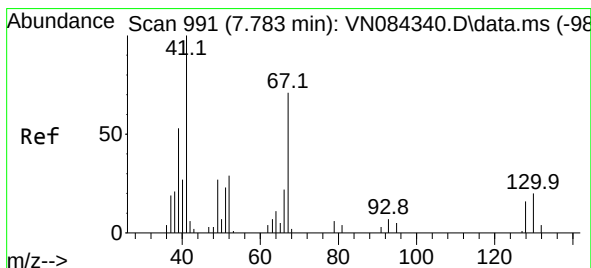
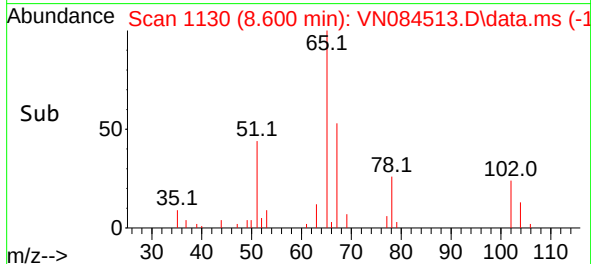
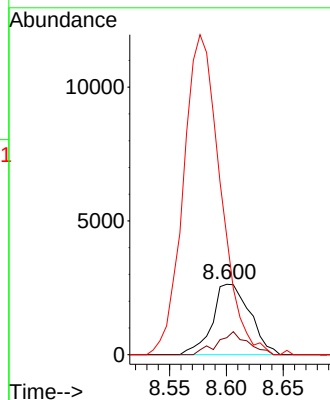
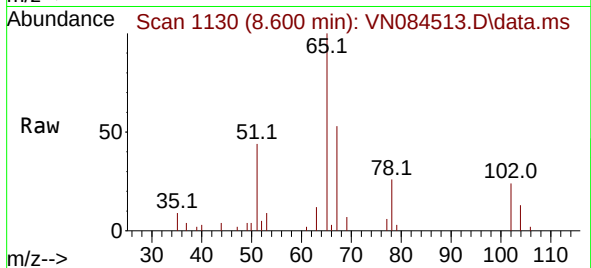
Tgt Ion: 78 Resp: 6050

Ion Ratio Lower Upper

78 100

77 24.1 19.6 29.4

51 168.0 15.8 23.6#



#35

Methacrylonitrile

Concen: 38.324 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.059 min

Lab File: VN084513.D

Acq: 25 Oct 2024 14:03

Tgt Ion: 41 Resp: 56280

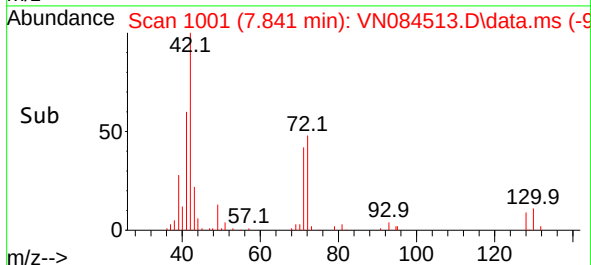
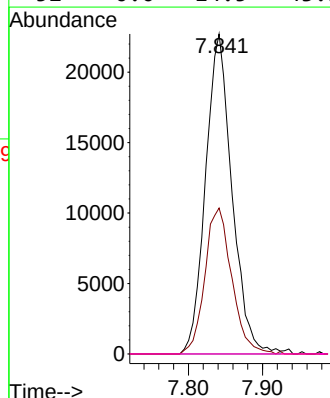
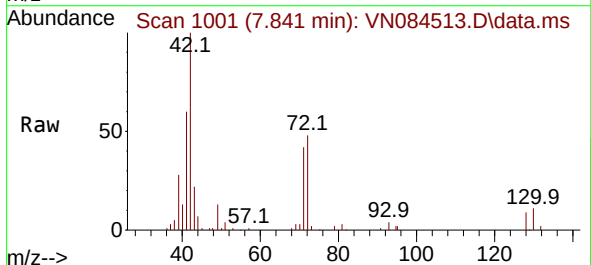
Ion Ratio Lower Upper

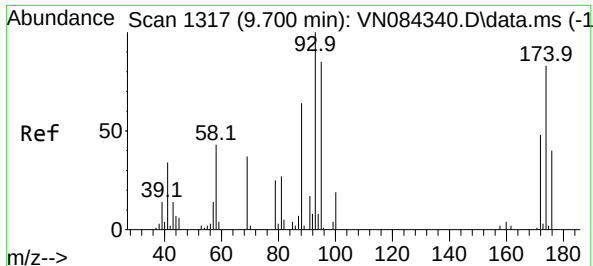
41 100

39 45.6 26.4 79.0

67 0.0 35.7 107.1#

52 0.0 14.5 43.5#

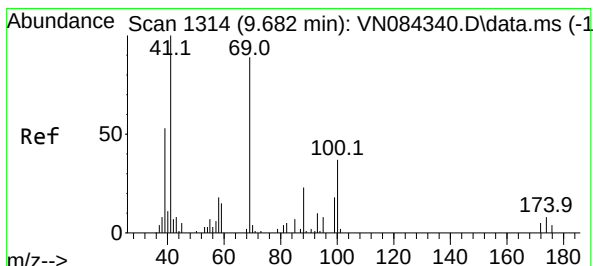
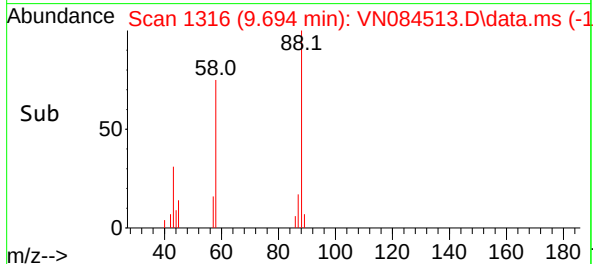
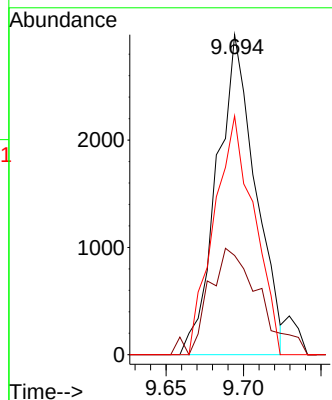
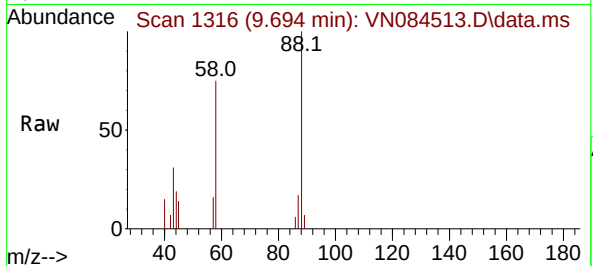




#45
1,4-Dioxane
Concen: 128.996 ug/l
RT: 9.694 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

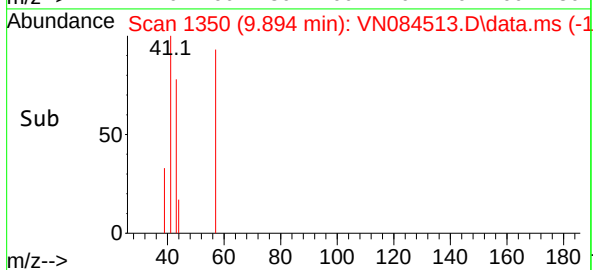
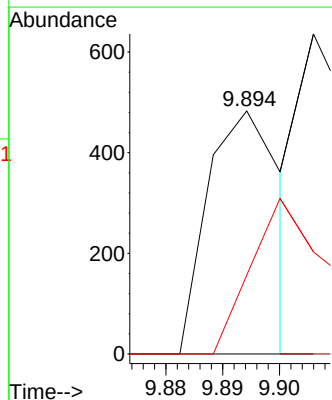
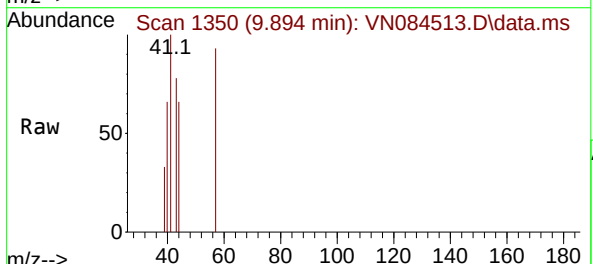
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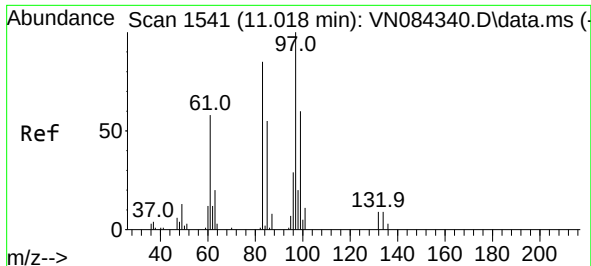
Tgt Ion: 88 Resp: 5167
Ion Ratio Lower Upper
88 100
43 40.1 22.4 33.6#
58 77.5 59.7 89.5



#46
Methyl methacrylate
Concen: 0.204 ug/l
RT: 9.894 min Scan# 1350
Delta R.T. 0.212 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

Tgt Ion: 41 Resp: 438
Ion Ratio Lower Upper
41 100
69 0.0 42.6 128.0#
39 32.5 27.5 82.4

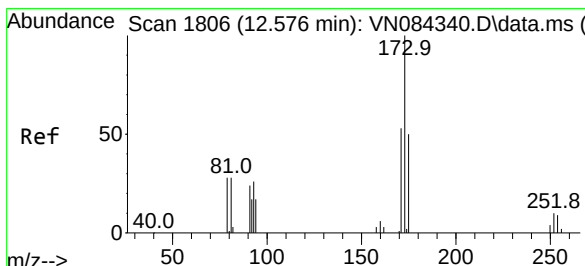
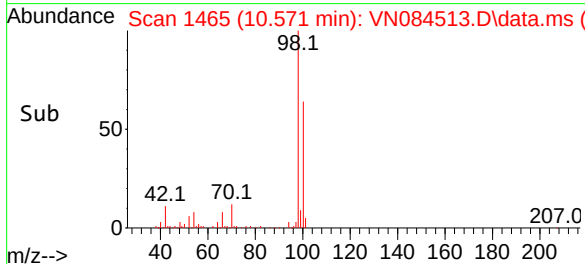
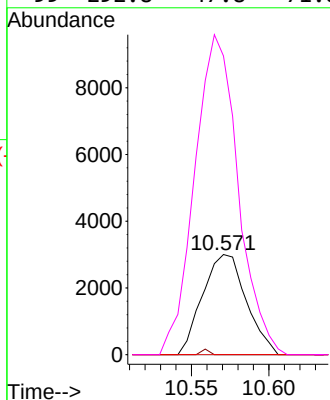
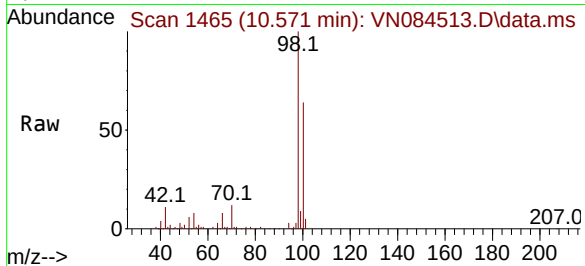




#50
1,1,2-Trichloroethane
Concen: 3.176 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.447 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

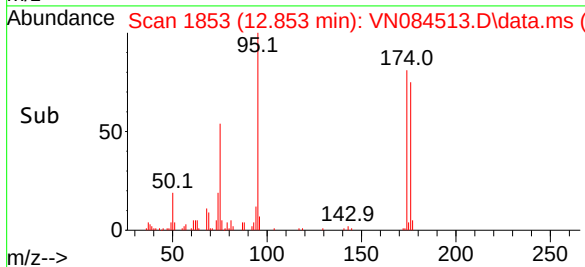
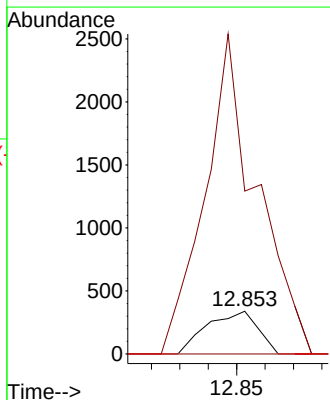
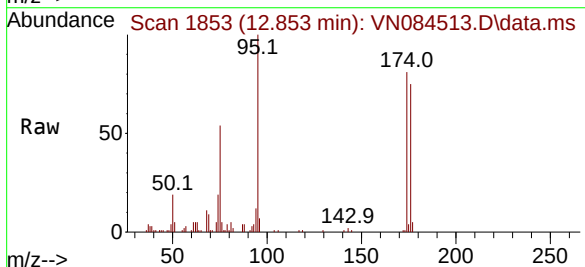
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241023068-02-VOA

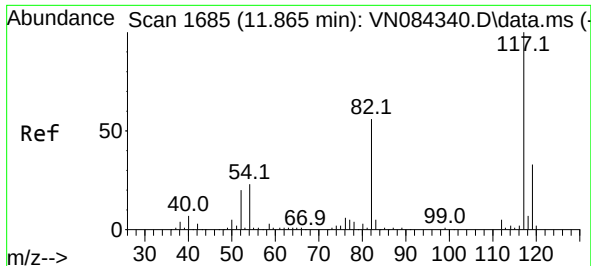
Tgt Ion: 97	Resp:	5889
Ion	Ratio	Lower Upper
97	100	
83	0.0	67.8 101.8#
85	0.0	44.2 66.2#
99	292.8	47.8 71.8#



#56
Bromoform
Concen: 0.292 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.277 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

Tgt Ion: 173	Resp:	424
Ion	Ratio	Lower Upper
173	100	
175	759.2	39.4 59.2#
254	0.0	6.8 10.2#

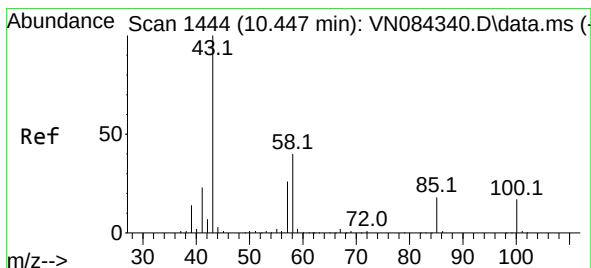
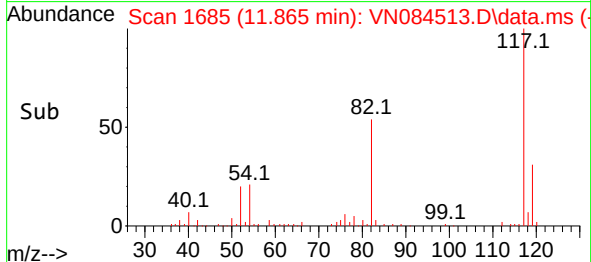
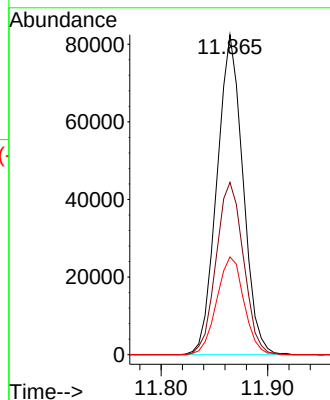
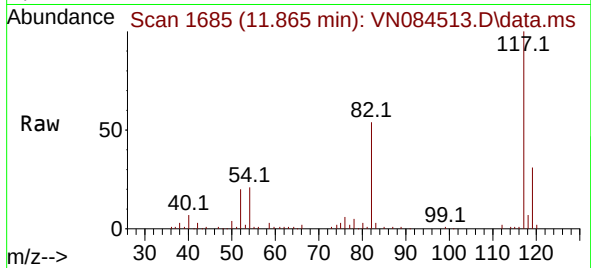




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

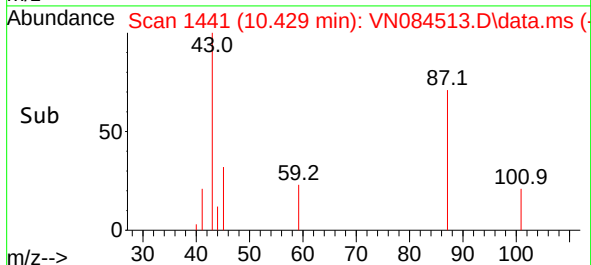
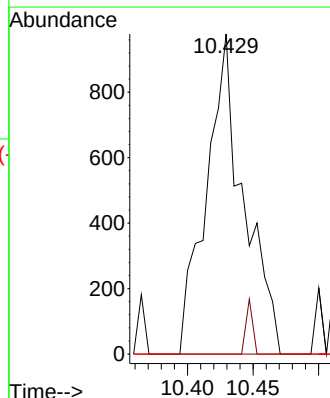
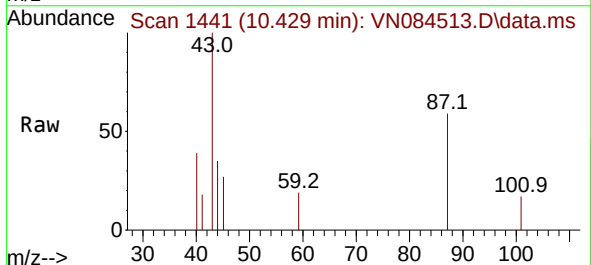
Instrument :
MSVOA_N
ClientSampleId :
241023068-02-VOA

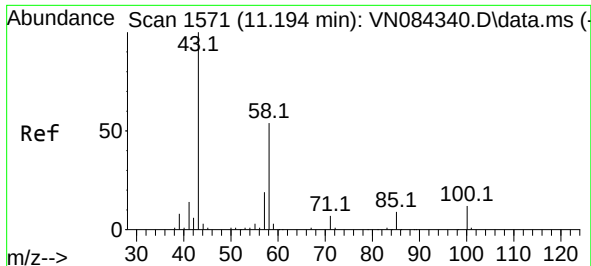
Tgt Ion:117 Resp: 139902
Ion Ratio Lower Upper
117 100
82 56.6 46.2 69.4
119 32.0 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 0.742 ug/l
RT: 10.429 min Scan# 1441
Delta R.T. -0.018 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

Tgt Ion: 43 Resp: 1933
Ion Ratio Lower Upper
43 100
58 0.0 31.9 47.9#
85 0.0 14.6 22.0#

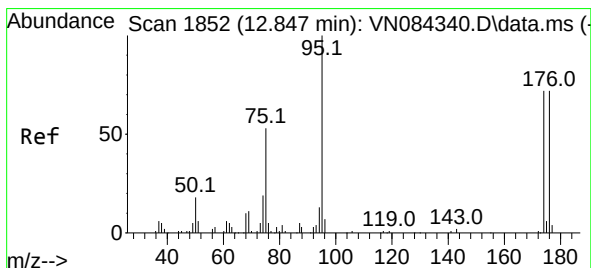
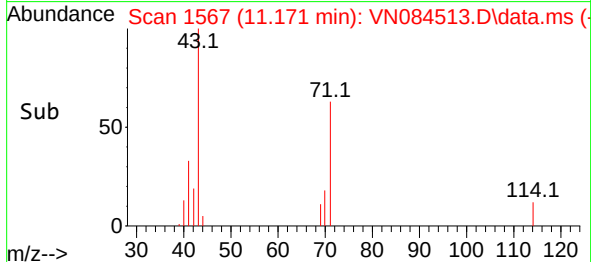
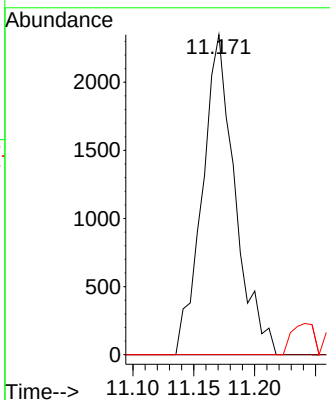
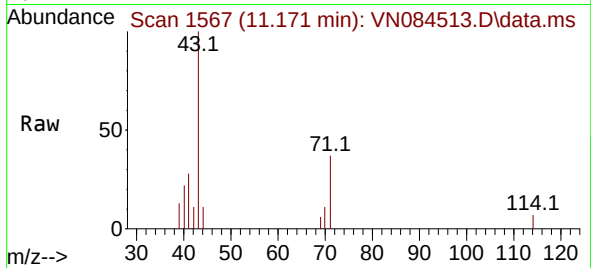




#59
2-Hexanone
Concen: 2.264 ug/l
RT: 11.171 min Scan# 1567
Delta R.T. -0.023 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

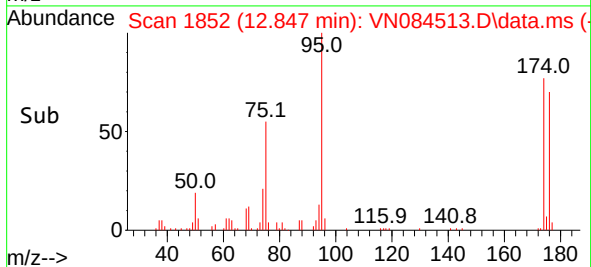
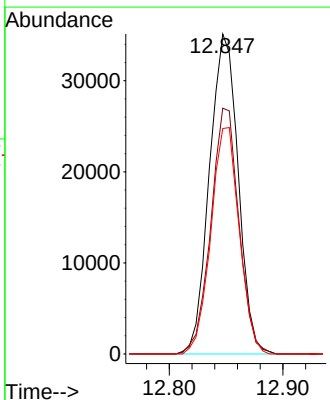
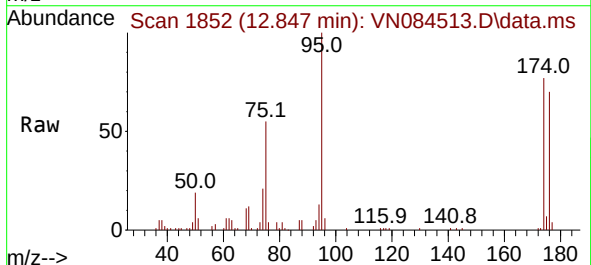
Instrument :
MSVOA_N
ClientSampleId :
241023068-02-VOA

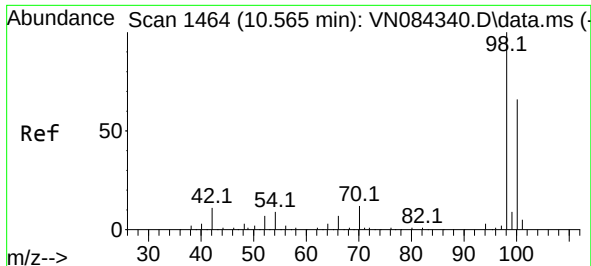
Tgt Ion: 43 Resp: 4384
Ion Ratio Lower Upper
43 100
58 0.0 44.0 66.0#
57 6.6 15.4 23.2#



#60
4-Bromofluorobenzene
Concen: 26.681 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

Tgt Ion: 95 Resp: 61605
Ion Ratio Lower Upper
95 100
174 75.1 58.2 87.2
176 70.0 56.4 84.6

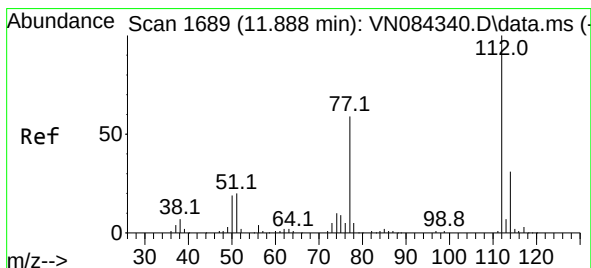
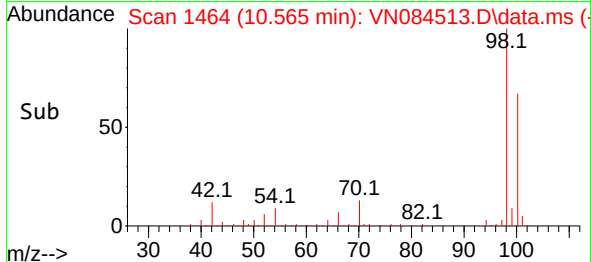
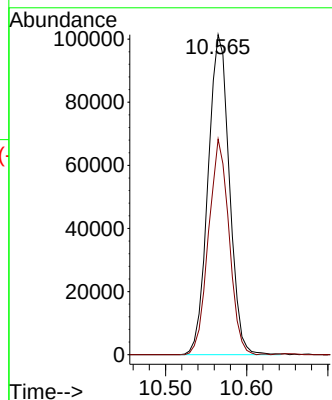
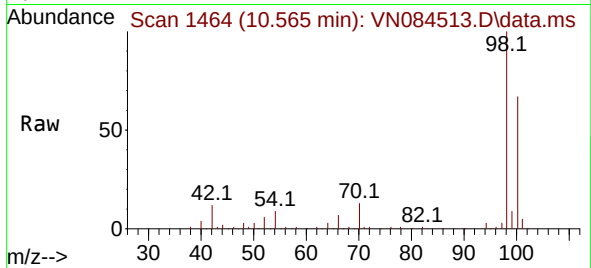




#63
Toluene-d8
Concen: 28.508 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

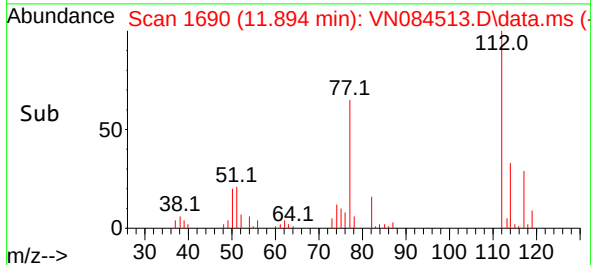
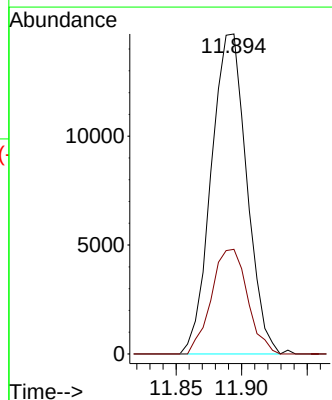
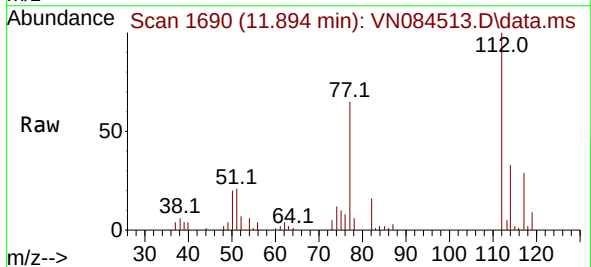
Instrument :
MSVOA_N
ClientSampleId :
241023068-02-VOA

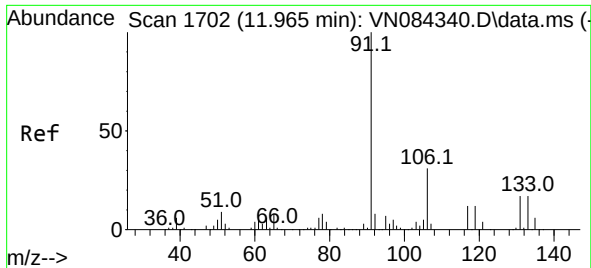
Tgt Ion: 98 Resp: 184765
Ion Ratio Lower Upper
98 100
100 64.8 52.5 78.7



#64
Chlorobenzene
Concen: 5.416 ug/l
RT: 11.894 min Scan# 1690
Delta R.T. 0.006 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

Tgt Ion: 112 Resp: 27605
Ion Ratio Lower Upper
112 100
114 32.7 25.1 37.7

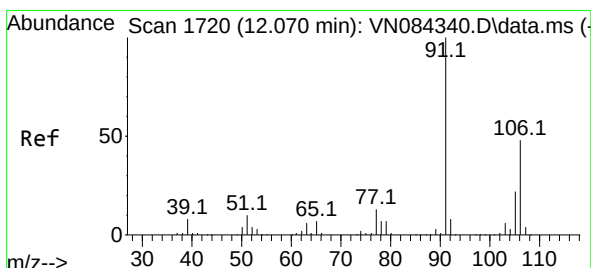
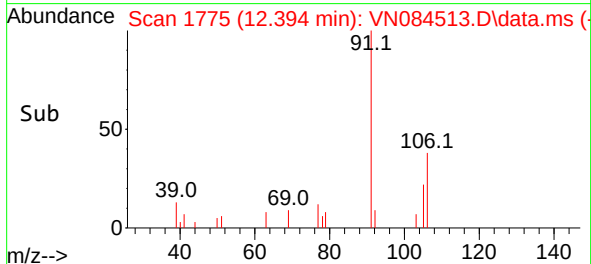
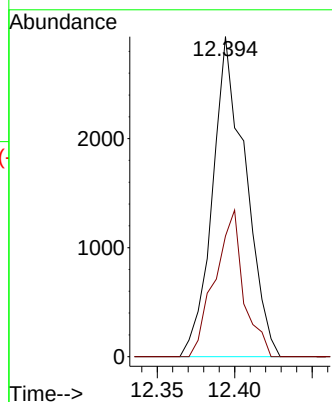
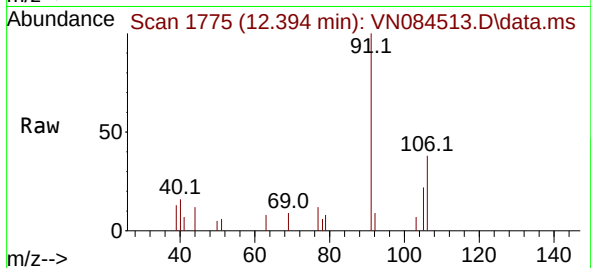




#66
Ethyl Benzene
Concen: 0.488 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. 0.429 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

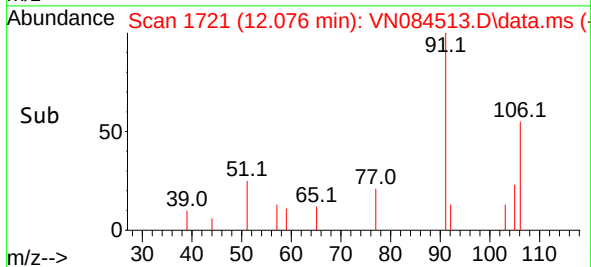
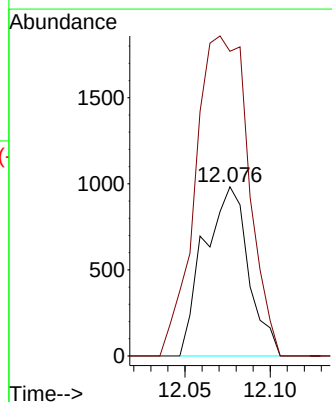
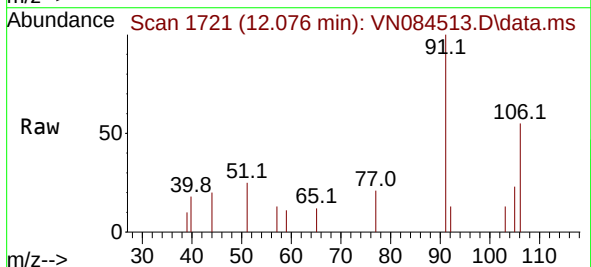
Instrument :
MSVOA_N
ClientSampleId :
241023068-02-VOA

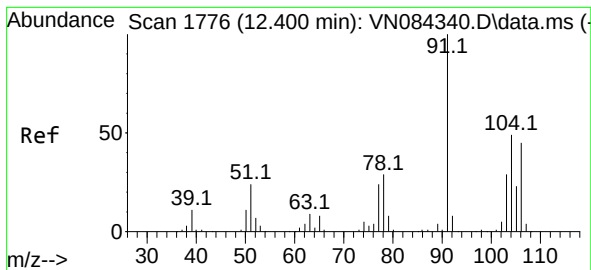
Tgt Ion: 91 Resp: 4338
Ion Ratio Lower Upper
91 100
106 37.7 25.2 37.8



#67
m/p-Xylenes
Concen: 0.526 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.006 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

Tgt Ion: 106 Resp: 1777
Ion Ratio Lower Upper
106 100
91 159.3 166.7 250.1#

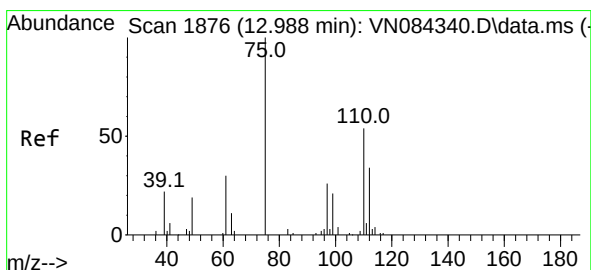
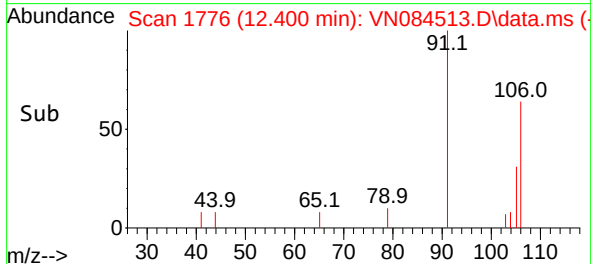
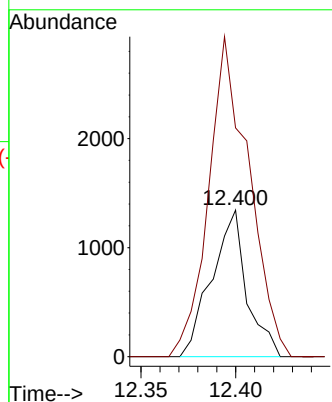
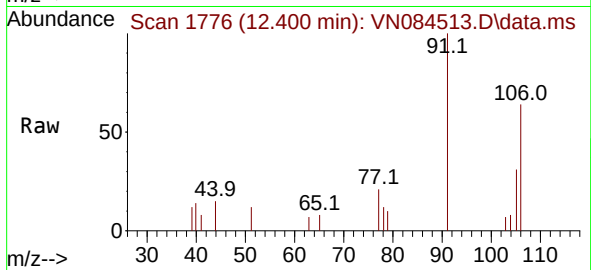




#68
o-Xylene
Concen: 0.532 ug/l
RT: 12.400 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

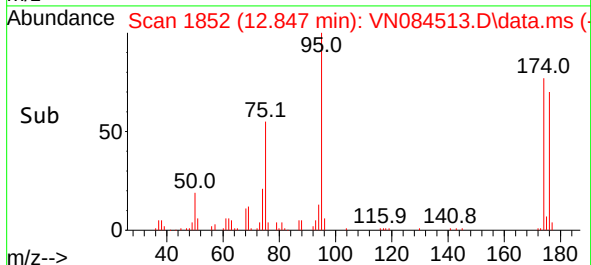
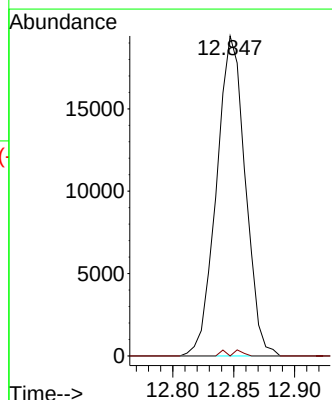
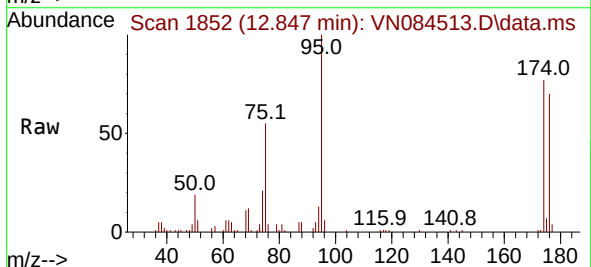
Instrument :
MSVOA_N
ClientSampleId :
241023068-02-VOA

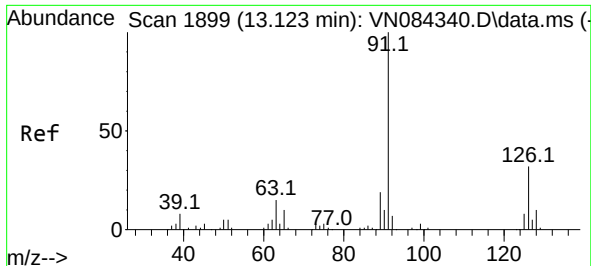
Tgt Ion:106 Resp: 1731
Ion Ratio Lower Upper
106 100
91 250.6 110.9 332.9



#72
1,2,3-Trichloropropane
Concen: 14.525 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

Tgt Ion: 75 Resp: 31964
Ion Ratio Lower Upper
75 100
77 0.6 0.0 414.0

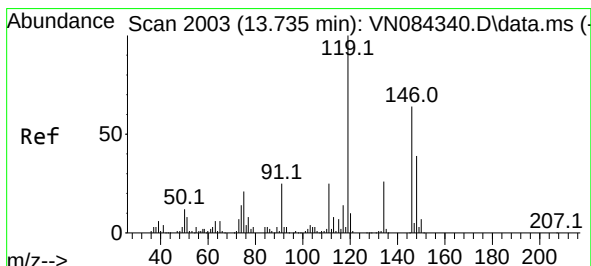
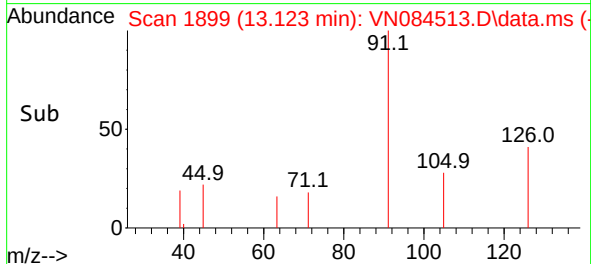
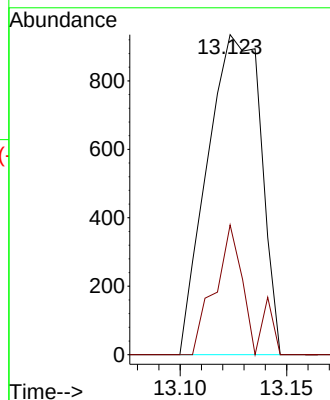
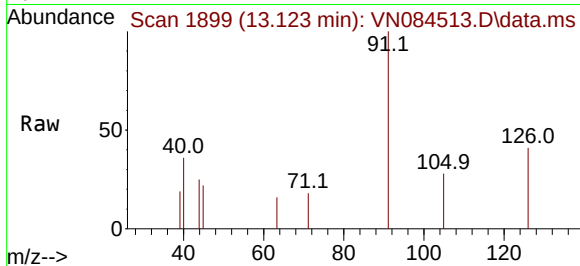




#75
2-Chlorotoluene
Concen: 0.265 ug/l
RT: 13.123 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

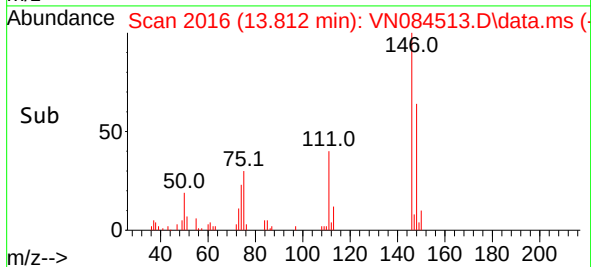
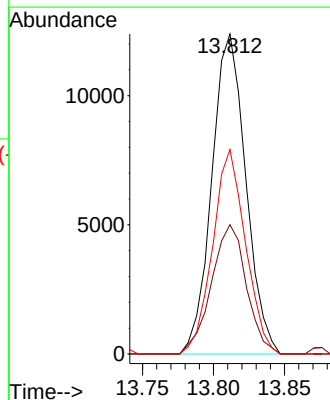
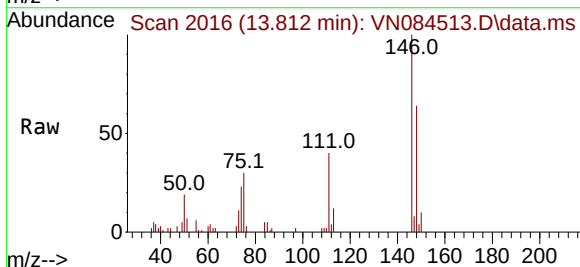
Instrument :
MSVOA_N
ClientSampleId :
241023068-02-VOA

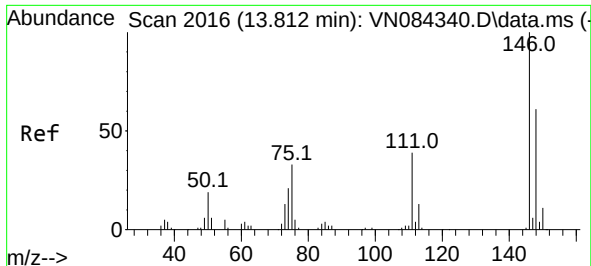
Tgt Ion: 91 Resp: 1627
Ion Ratio Lower Upper
91 100
126 20.5 0.0 64.0



#83
1,3-Dichlorobenzene
Concen: 5.507 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.077 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

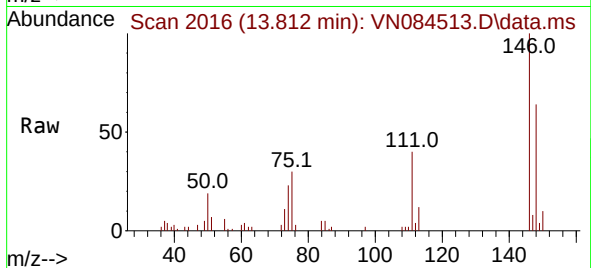
Tgt Ion:146 Resp: 20599
Ion Ratio Lower Upper
146 100
111 41.6 20.6 61.9
148 61.7 31.6 94.7



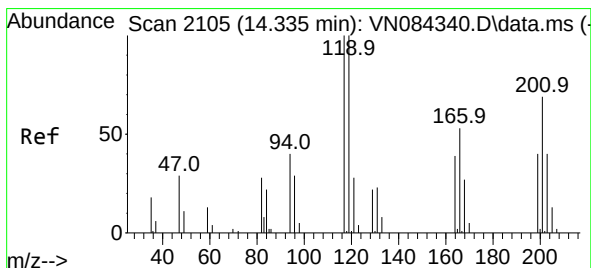
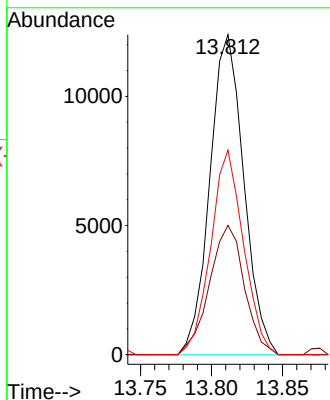
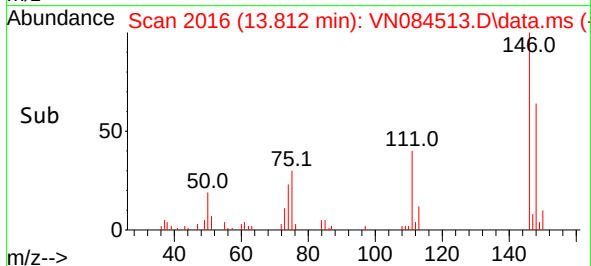


#84
1,4-Dichlorobenzene
Concen: 5.546 ug/l
RT: 13.812 min Scan# 2016
Delta R.T. 0.000 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

Instrument :
MSVOA_N
ClientSampleId :
241023068-02-VOA

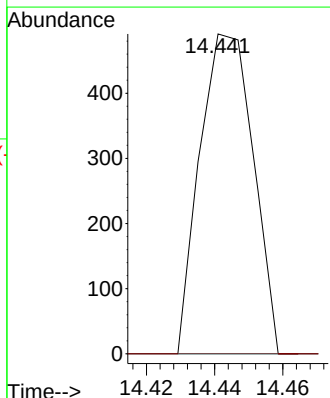
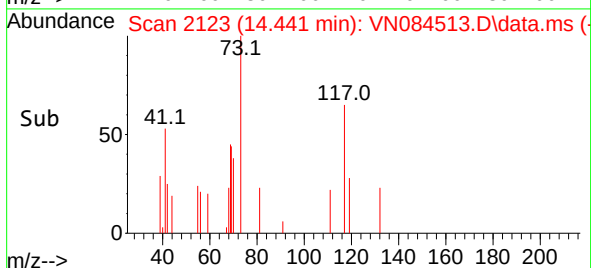
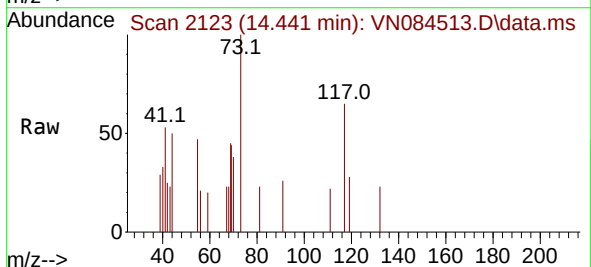


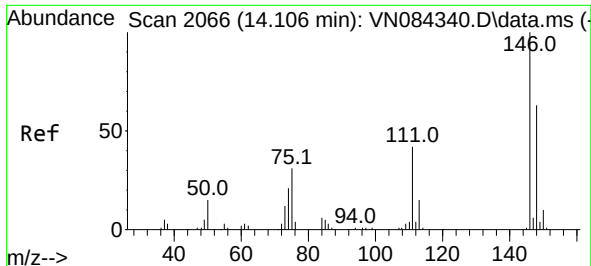
Tgt Ion:146 Resp: 20599
Ion Ratio Lower Upper
146 100
111 41.6 20.5 61.5
148 61.7 32.5 97.4



#86
Hexachloroethane
Concen: 0.402 ug/l
RT: 14.441 min Scan# 2123
Delta R.T. 0.106 min
Lab File: VN084513.D
Acq: 25 Oct 2024 14:03

Tgt Ion:117 Resp: 536
Ion Ratio Lower Upper
117 100
201 0.0 33.9 101.6#





#87

1,2-Dichlorobenzene

Concen: 0.431 ug/l

RT: 14.112 min Scan# 2067

Delta R.T. 0.006 min

Lab File: VN084513.D

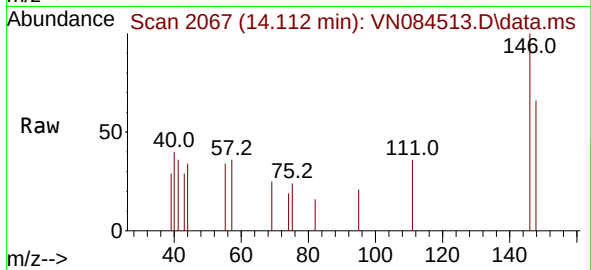
Acq: 25 Oct 2024 14:03

Instrument :

MSVOA_N

ClientSampleId :

241023068-02-VOA



Tgt Ion:146 Resp: 1558

Ion Ratio Lower Upper

146 100

111 44.1 21.9 65.5

148 52.8 31.1 93.5

