

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103124\
 Data File : VN084618.D
 Acq On : 31 Oct 2024 14:08
 Operator : JC\MD
 Sample : VIBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 01 02:41:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 01 02:38:04 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	32407	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	173145	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	152051	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	76607	29.404	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.000%
60) 4-Bromofluorobenzene	12.847	95	68530	26.176	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	87.267%
63) Toluene-d8	10.565	98	208685	28.992	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.633%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	538	0.285	ug/l #	45
3) Chloromethane	2.365	50	1991	0.877	ug/l #	81
4) Vinyl Chloride	2.512	62	662	0.314	ug/l #	24
5) Bromomethane	2.901	94	1260	1.178	ug/l	86
6) Chloroethane	2.854	64	330	0.239	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.365	101	407	0.210	ug/l #	29
10) 1,1-Dichloroethene	4.324	96	672	0.356	ug/l #	31
11) Methyl Iodide	4.577	142	1772	0.683	ug/l #	54
12) Methyl Acetate	5.024	43	7912	2.688	ug/l	91
13) Acrolein	4.177	56	486	1.339	ug/l #	74
14) Acrylonitrile	5.712	53	1131	1.174	ug/l #	69
16) Carbon Disulfide	4.695	76	12188	2.193	ug/l #	93
19) trans-1,2-Dichloroethene	5.777	96	2080	1.051	ug/l	95
22) cis-1,2-Dichloroethene	7.483	96	858	0.363	ug/l #	70
23) tert-Butyl Alcohol	5.518	59	1135	3.376	ug/l #	100
26) Cyclohexane	8.247	56	994	0.336	ug/l #	57
29) 1,1-Dichloropropene	8.365	75	1788	0.686	ug/l	81
30) 2-Butanone	7.489	43	619	0.515	ug/l #	55
33) Carbon Tetrachloride	8.359	117	649	0.215	ug/l #	56
34) Benzene	8.606	78	2416	0.280	ug/l #	1
36) 1,2-Dichloroethane	8.665	62	845	0.295	ug/l #	74
38) Methylcyclohexane	9.594	83	718	0.256	ug/l #	67
40) Dibromomethane	9.706	93	1044	0.719	ug/l	70
41) Bromodichloromethane	9.883	83	863	0.277	ug/l #	93
42) Vinyl Acetate	6.589	43	1394	0.310	ug/l #	71
44) Isopropyl Acetate	8.683	43	1853	0.362	ug/l #	50
45) 1,4-Dioxane	9.712	88	172	5.033	ug/l #	1
47) n-amyl Acetate	12.488	43	1843	0.482	ug/l	90
48) t-1,3-Dichloropropene	10.835	75	4378	1.425	ug/l	97
49) cis-1,3-Dichloropropene	10.306	75	2563	0.778	ug/l #	93
50) 1,1,2-Trichloroethane	11.012	97	520	0.267	ug/l #	81
51) Ethyl methacrylate	10.571	69	821	0.274	ug/l	75
52) 1,3-Dichloropropane	11.153	76	1508	0.446	ug/l	76
53) Dibromochloromethane	11.365	129	1220	0.535	ug/l	89
54) 1,2-Dibromoethane	11.471	107	1581	0.803	ug/l	95
55) 2-Chloroethyl vinyl ether	10.159	63	1976	1.343	ug/l #	90
56) Bromoform	12.576	173	841	0.551	ug/l #	89
58) 4-Methyl-2-Pentanone	10.441	43	1597	0.666	ug/l #	56
59) 2-Hexanone	11.194	43	2747	1.564	ug/l #	81

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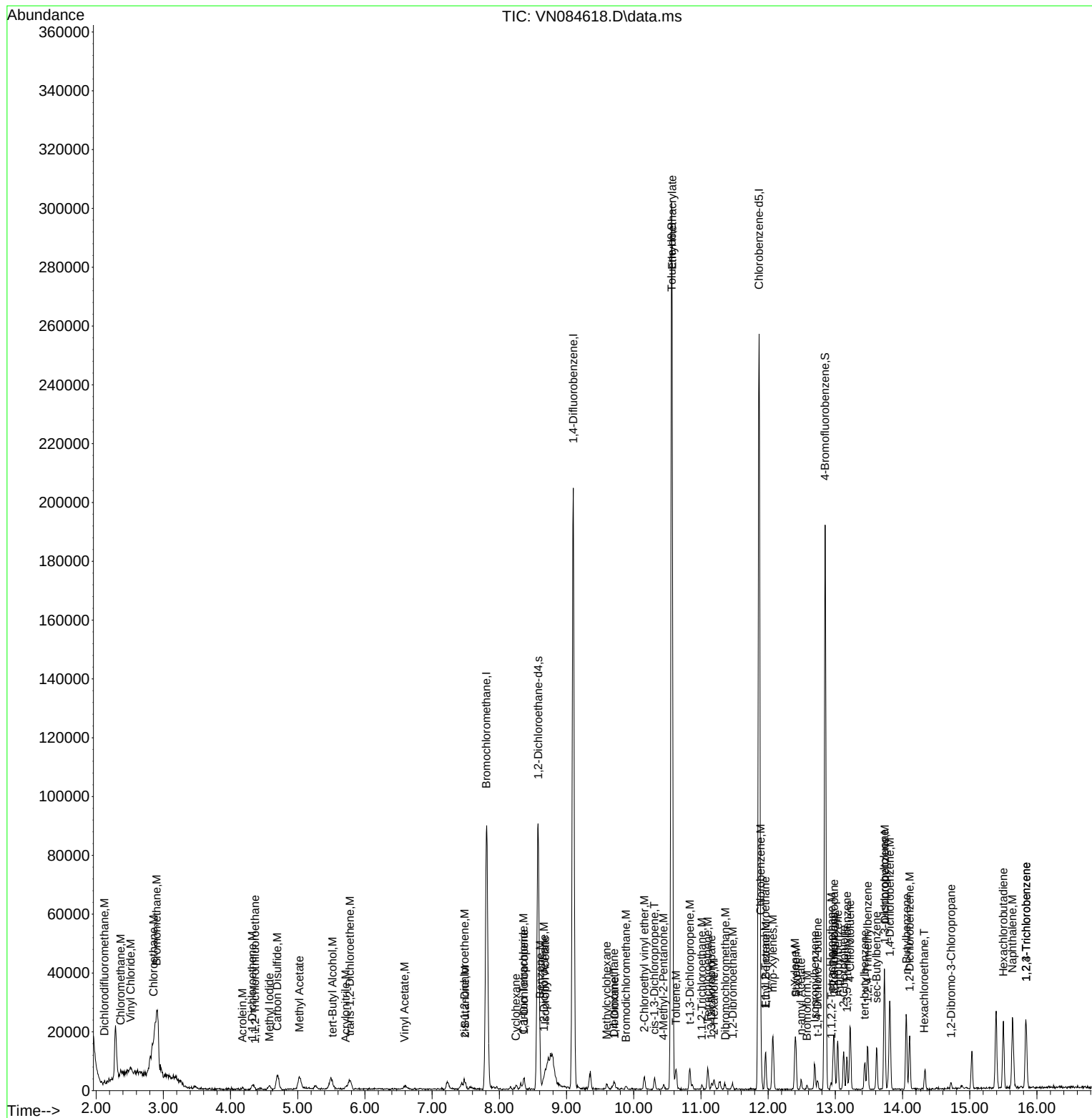
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N103124W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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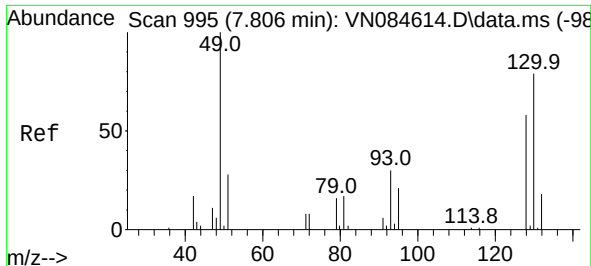
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
61) Tetrachloroethene	11.100	164	1744	1.096	ug/l	89
62) Toluene	10.630	91	4835	0.558	ug/l	96
64) Chlorobenzene	11.888	112	8217	1.572	ug/l	93
65) 1,1,1,2-Tetrachloroethane	11.959	131	702	0.365	ug/l	78
66) Ethyl Benzene	11.965	91	7608	0.836	ug/l	96
67) m/p-Xylenes	12.071	106	6437	1.847	ug/l	88
68) o-Xylene	12.400	106	2091	0.622	ug/l	97
69) Styrene	12.412	104	7556	1.341	ug/l	93
70) Isopropylbenzene	12.694	105	6248	0.748	ug/l	91
71) 1,1,2,2-Tetrachloroethane	12.941	83	1286	0.475	ug/l #	80
72) 1,2,3-Trichloropropane	12.982	75	2252	0.974	ug/l	1
73) Bromobenzene	12.976	156	4289	1.992	ug/l	87
74) n-propylbenzene	13.035	91	13104	1.342	ug/l	98
75) 2-Chlorotoluene	13.123	91	8203	1.290	ug/l	100
76) 1,3,5-Trimethylbenzene	13.171	105	6086	0.853	ug/l	92
77) t-1,4-Dichloro-2-butene	12.735	75	800	0.844	ug/l	86
78) 4-Chlorotoluene	13.218	91	14028	2.184	ug/l	97
79) tert-butylbenzene	13.435	119	4301	0.729	ug/l	92
80) 1,2,4-Trimethylbenzene	13.482	105	6845	0.951	ug/l	98
81) sec-Butylbenzene	13.612	105	9474	1.165	ug/l	98
82) p-Isopropyltoluene	13.729	119	8698	1.273	ug/l	96
83) 1,3-Dichlorobenzene	13.735	146	10696	2.686	ug/l	96
84) 1,4-Dichlorobenzene	13.812	146	13085	3.325	ug/l	98
85) n-Butylbenzene	14.059	91	14609	2.546	ug/l	97
86) Hexachloroethane	14.323	117	578	0.414	ug/l #	15
87) 1,2-Dichlorobenzene	14.106	146	7065	1.800	ug/l	94
88) 1,2-Dibromo-3-Chloropr...	14.723	75	873	1.672	ug/l #	67
89) 1,2,4-Trichlorobenzene	15.841	180	9046	4.734	ug/l	92
90) Hexachlorobutadiene	15.500	225	4075	4.882	ug/l	94
91) Naphthalene	15.635	128	22853	3.745	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	9046	4.734	ug/l	92

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

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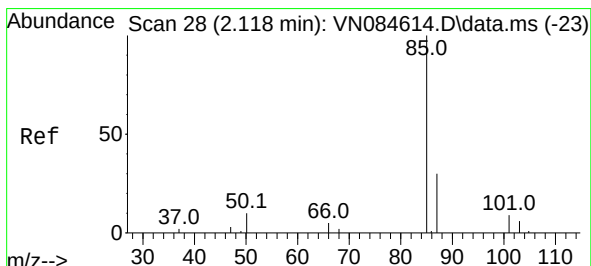
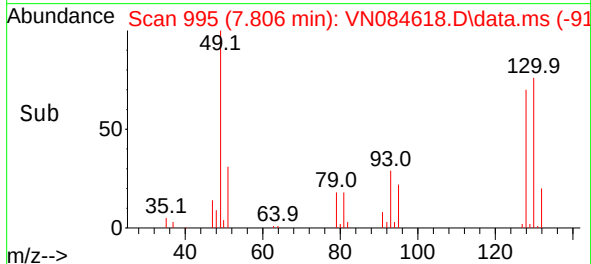
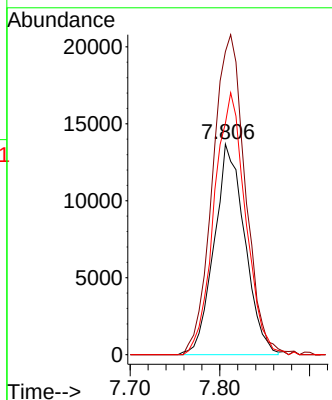
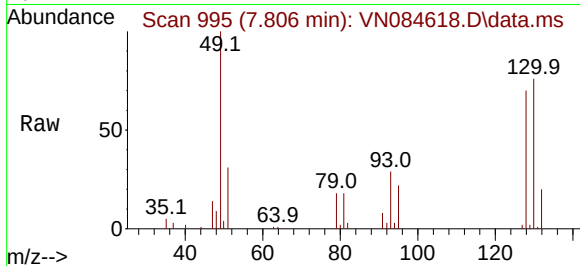




#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.806 min Scan# 995
 Delta R.T. 0.000 min
 Lab File: VN084618.D
 Acq: 31 Oct 2024 14:08

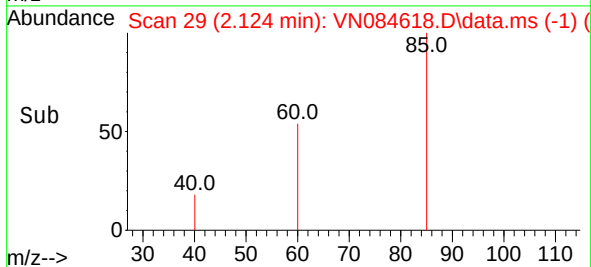
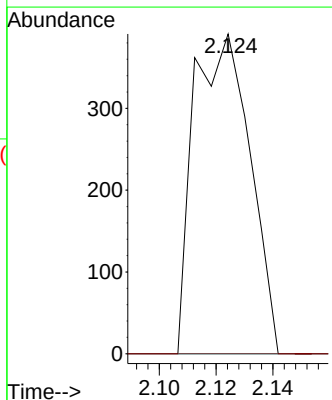
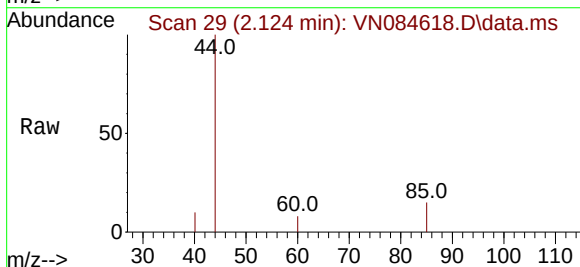
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 ClientSampleId :

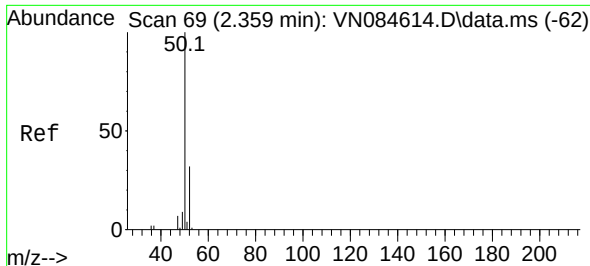
Tgt Ion:	128	Resp:	32407
Ion Ratio	Lower	Upper	
128	100		
49	162.0	0.0	427.0
130	127.8	0.0	322.2



#2
 Dichlorodifluoromethane
 Concen: 0.285 ug/l
 RT: 2.124 min Scan# 29
 Delta R.T. 0.006 min
 Lab File: VN084618.D
 Acq: 31 Oct 2024 14:08

Tgt Ion:	85	Resp:	538
Ion Ratio	Lower	Upper	
85	100		
87	0.0	14.9	44.9#

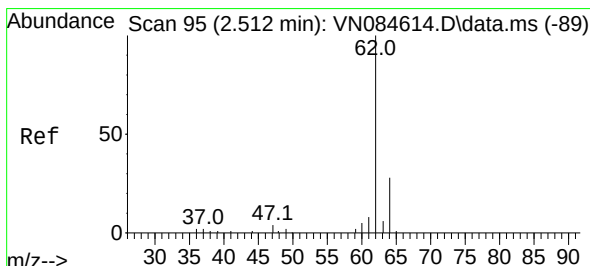
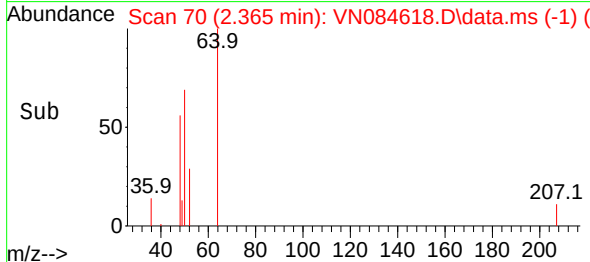
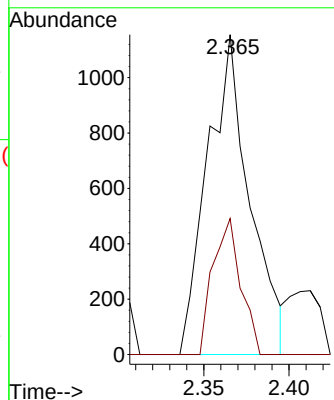
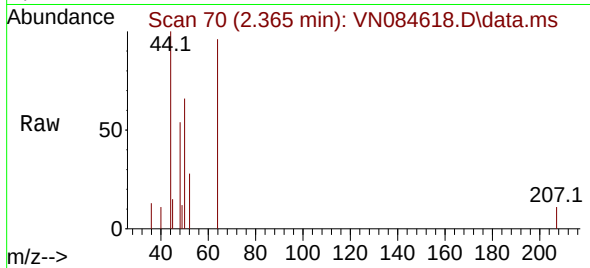




#3
Chloromethane
Concen: 0.877 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

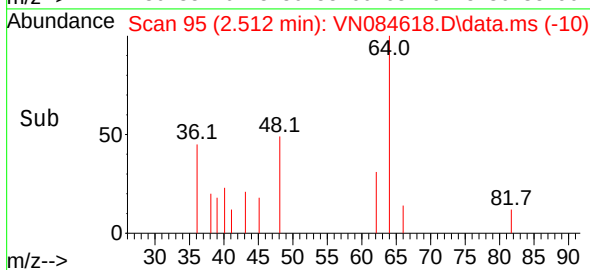
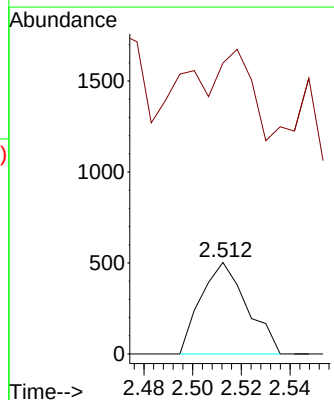
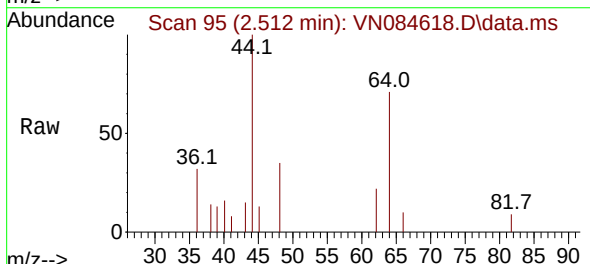
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MSVOA_N
ClientSampleId :

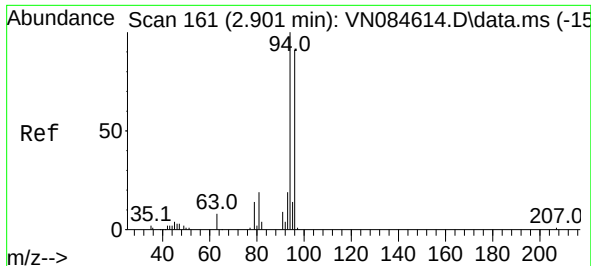
Tgt Ion: 50 Resp: 1991
Ion Ratio Lower Upper
50 100
52 42.5 25.5 38.3#



#4
Vinyl Chloride
Concen: 0.314 ug/l
RT: 2.512 min Scan# 95
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Tgt Ion: 62 Resp: 662
Ion Ratio Lower Upper
62 100
64 69.6 23.1 34.7#





#5

Bromomethane

Concen: 1.178 ug/l

RT: 2.901 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

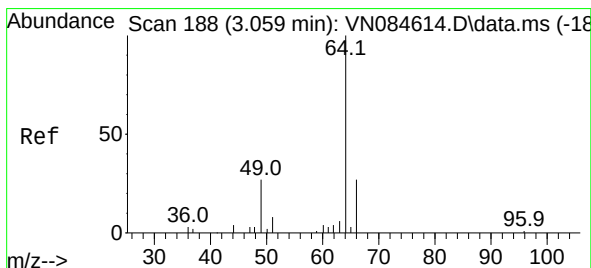
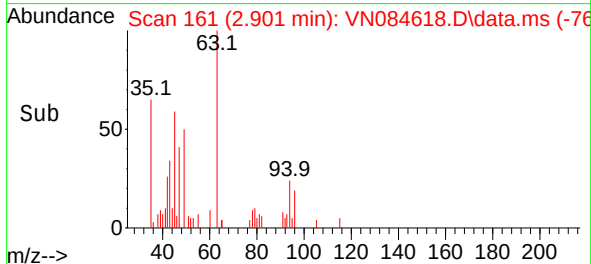
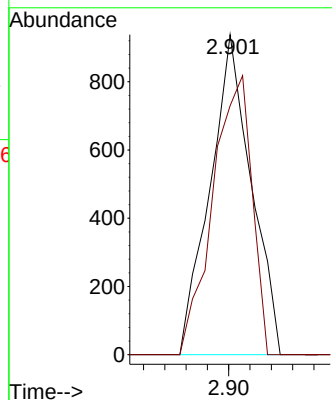
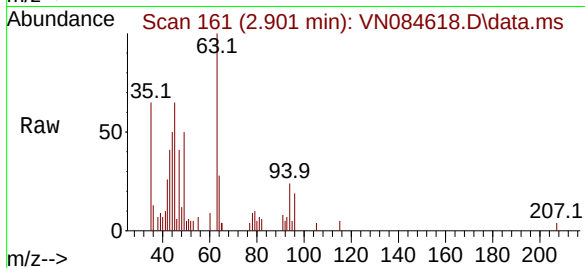
ClientSampleId :

Tgt Ion: 94 Resp: 1260

Ion Ratio Lower Upper

94 100

96 77.8 72.7 109.1



#6

Chloroethane

Concen: 0.239 ug/l

RT: 2.854 min Scan# 153

Delta R.T. -0.206 min

Lab File: VN084618.D

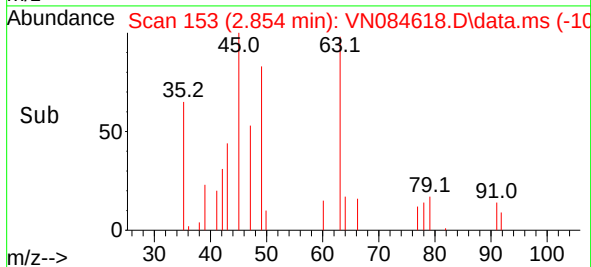
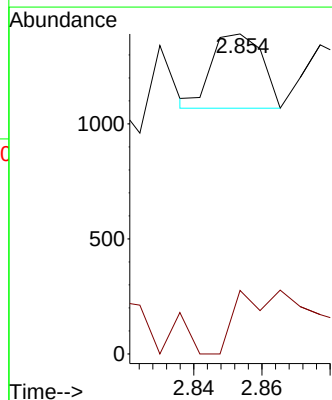
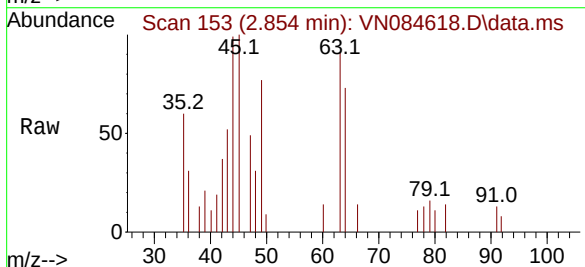
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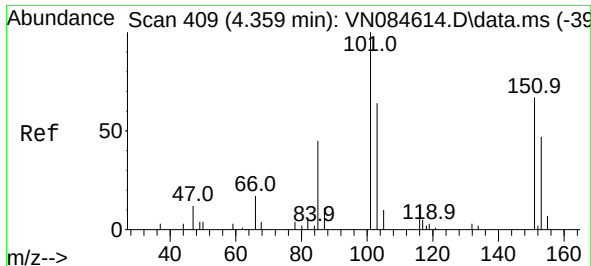
Tgt Ion: 64 Resp: 330

Ion Ratio Lower Upper

64 100

66 29.7 22.1 33.1

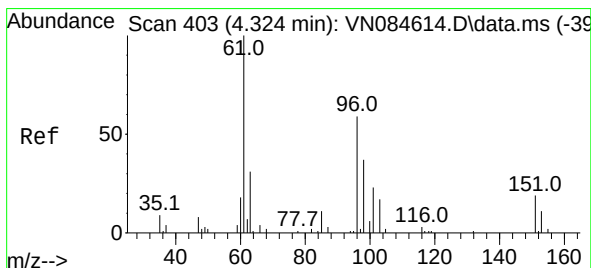
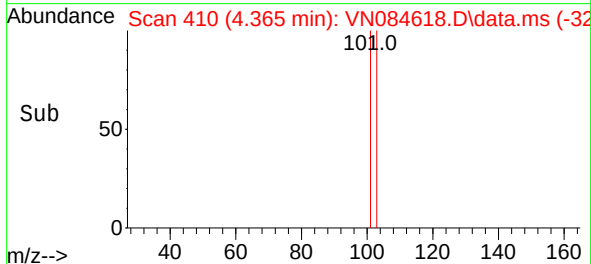
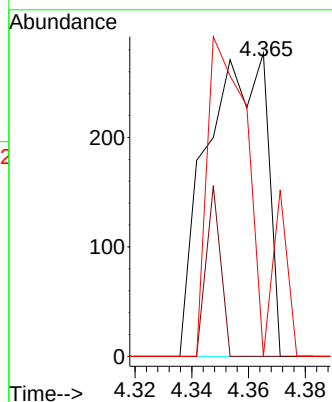
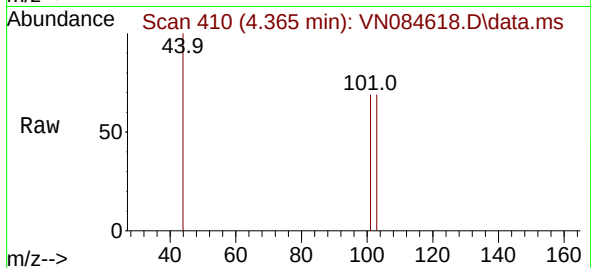




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.210 ug/l
 RT: 4.365 min Scan# 410
 Delta R.T. 0.006 min
 Lab File: VN084618.D
 Acq: 31 Oct 2024 14:08

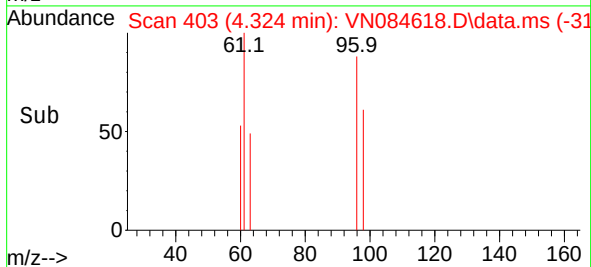
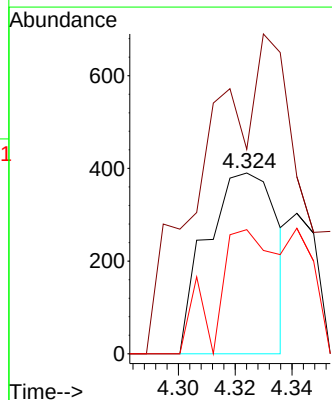
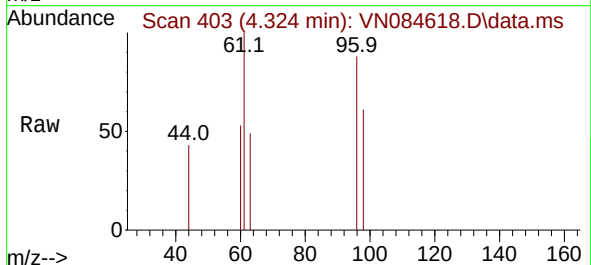
Instrument :
 MSVOA_N
 ClientSampleId :

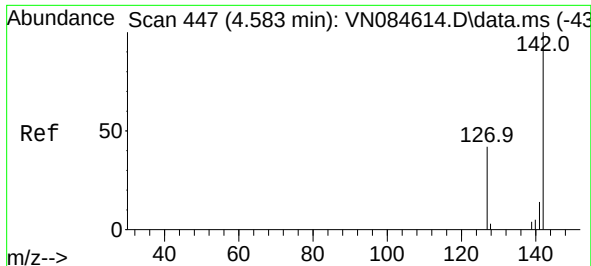
Tgt Ion:101 Resp: 407
 Ion Ratio Lower Upper
 101 100
 85 0.0 0.0 89.6
 151 13.3 0.0 149.4



#10
 1,1-Dichloroethene
 Concen: 0.356 ug/l
 RT: 4.324 min Scan# 403
 Delta R.T. 0.000 min
 Lab File: VN084618.D
 Acq: 31 Oct 2024 14:08

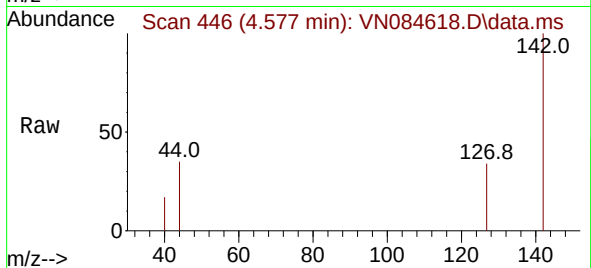
Tgt Ion: 96 Resp: 672
 Ion Ratio Lower Upper
 96 100
 61 44.1 135.1 202.7#
 98 68.7 50.4 75.6



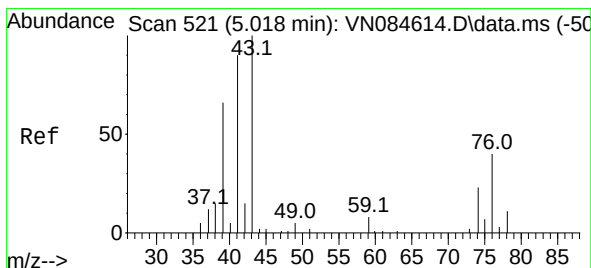
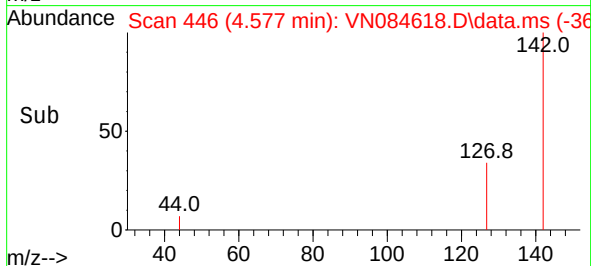
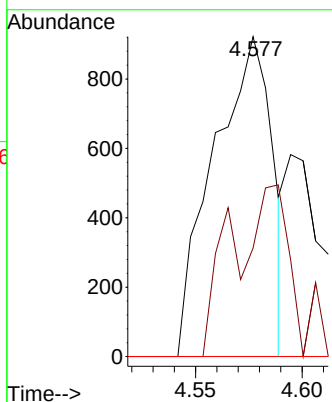


#11
Methyl Iodide
Concen: 0.683 ug/l
RT: 4.577 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Instrument :
MSVOA_N
ClientSampleId :

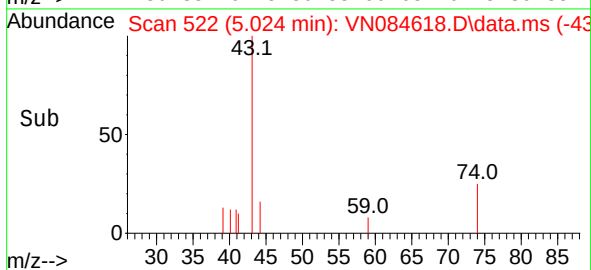
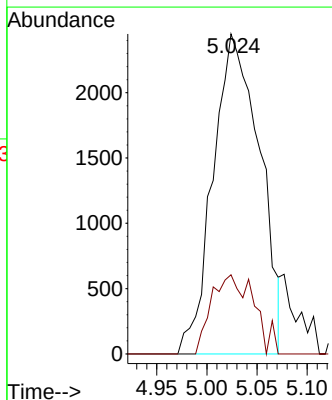
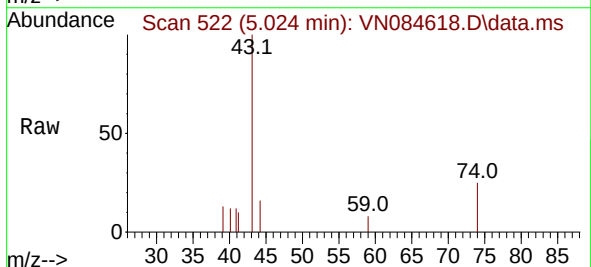


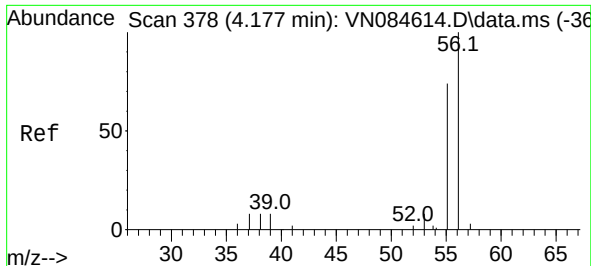
Tgt Ion:142 Resp: 1772
Ion Ratio Lower Upper
142 100
127 9.5 20.3 60.9#
141 0.0 6.9 20.7#



#12
Methyl Acetate
Concen: 2.688 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Tgt Ion: 43 Resp: 7912
Ion Ratio Lower Upper
43 100
74 28.1 19.0 28.4





#13

Acrolein

Concen: 1.339 ug/l

RT: 4.177 min Scan# 31

Delta R.T. 0.000 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

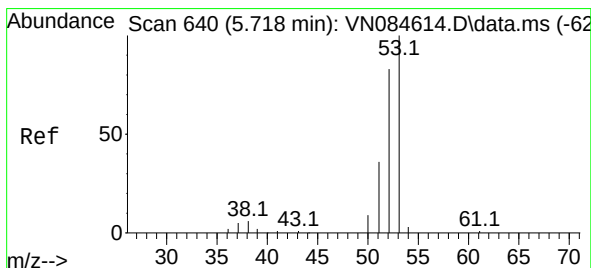
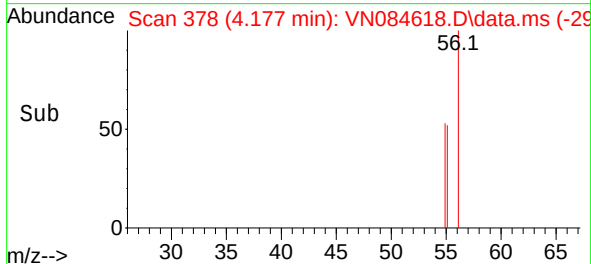
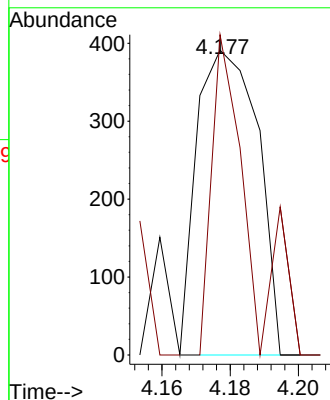
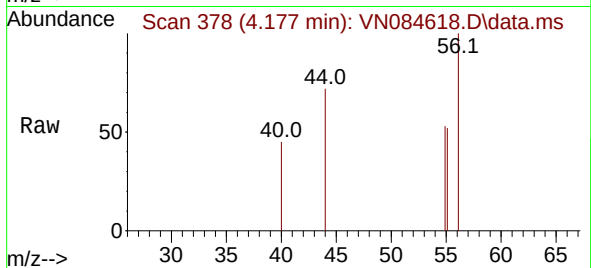
ClientSampleId :

Tgt Ion: 56 Resp: 486

Ion Ratio Lower Upper

56 100

55 49.2 56.7 85.1#



#14

Acrylonitrile

Concen: 1.174 ug/l

RT: 5.712 min Scan# 639

Delta R.T. -0.006 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

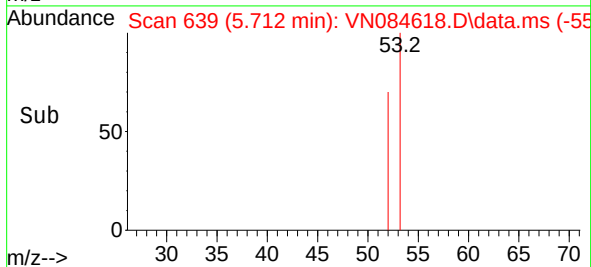
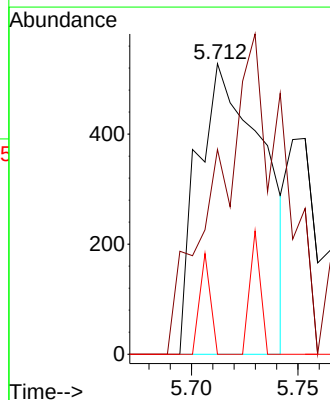
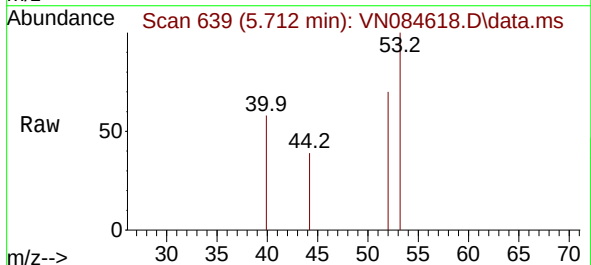
Tgt Ion: 53 Resp: 1131

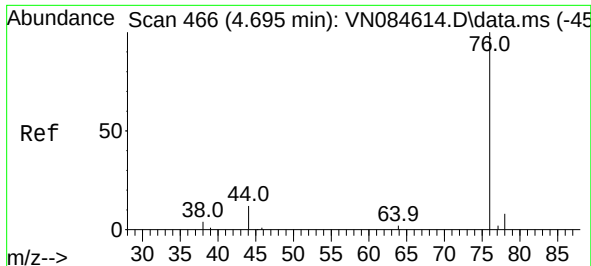
Ion Ratio Lower Upper

53 100

52 99.5 41.6 124.9

51 0.0 18.2 54.6#





#16

Carbon Disulfide

Concen: 2.193 ug/l

RT: 4.695 min Scan# 4

Delta R.T. 0.000 min

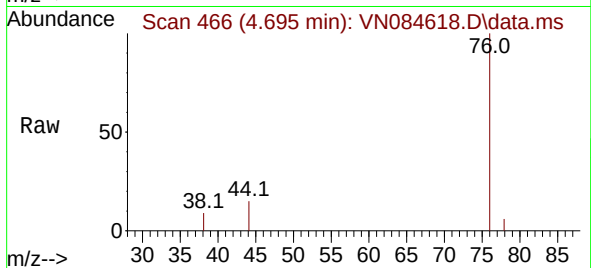
Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

ClientSampleId :

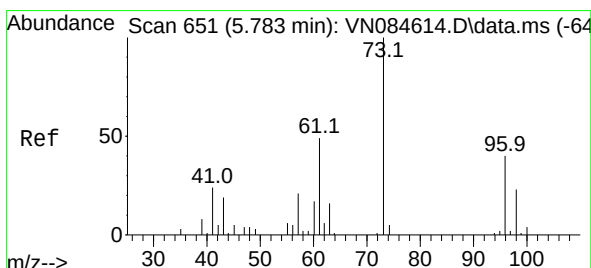
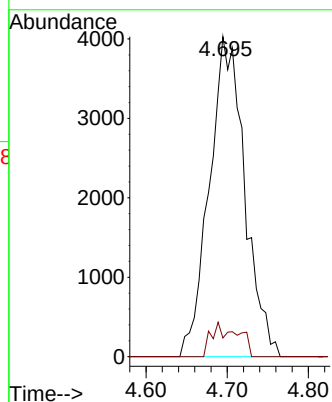


Tgt Ion: 76 Resp: 12188

Ion Ratio Lower Upper

76 100

78 5.8 6.6 9.8#



#19

trans-1,2-Dichloroethene

Concen: 1.051 ug/l

RT: 5.777 min Scan# 650

Delta R.T. -0.006 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

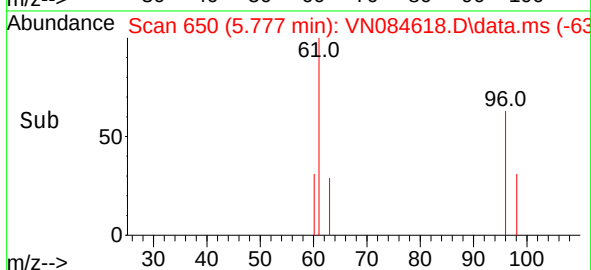
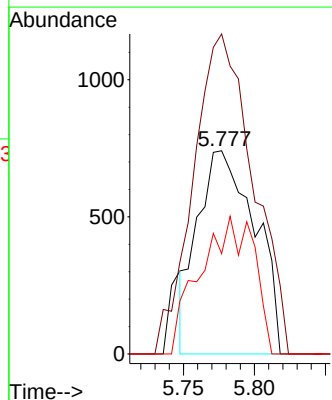
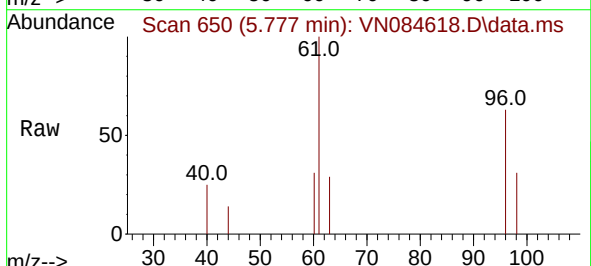
Tgt Ion: 96 Resp: 2080

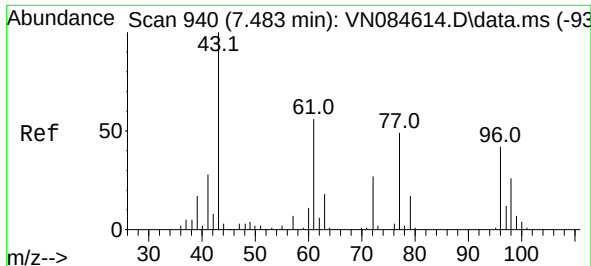
Ion Ratio Lower Upper

96 100

61 123.9 98.1 147.1

98 49.4 46.6 69.8





#22

cis-1,2-Dichloroethene

Concen: 0.363 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

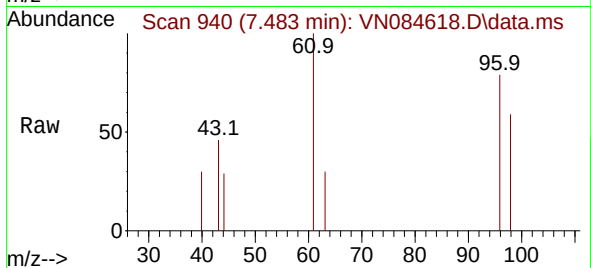
Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

ClientSampleId :



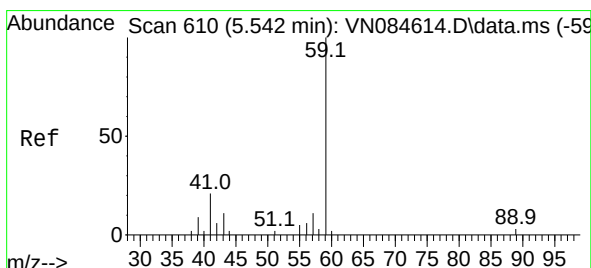
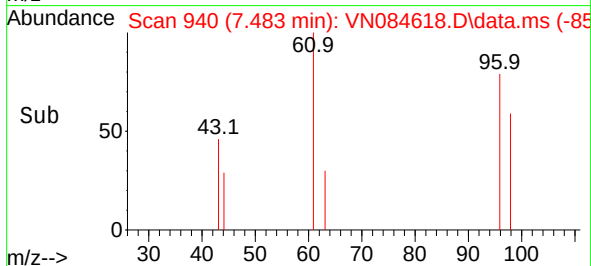
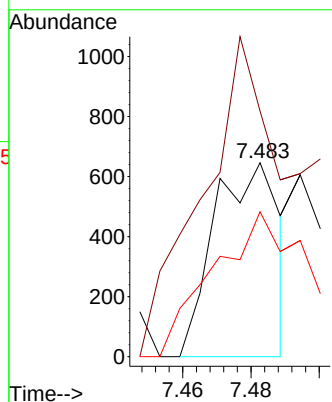
Tgt Ion: 96 Resp: 858

Ion Ratio Lower Upper

96 100

61 176.9 121.8 182.8

98 110.7 53.2 79.8#



#23

tert-Butyl Alcohol

Concen: 3.376 ug/l

RT: 5.518 min Scan# 606

Delta R.T. -0.023 min

Lab File: VN084618.D

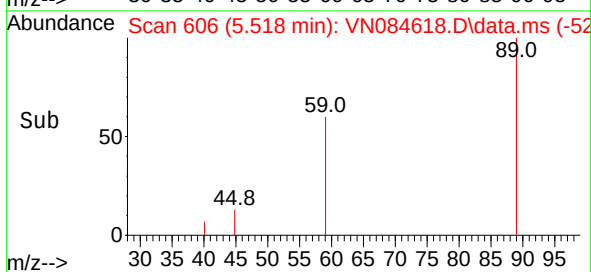
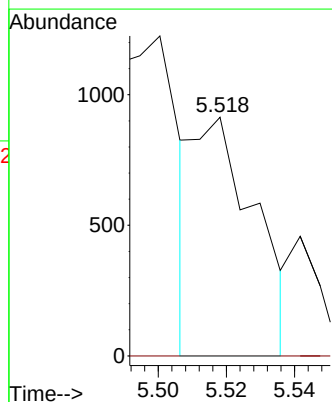
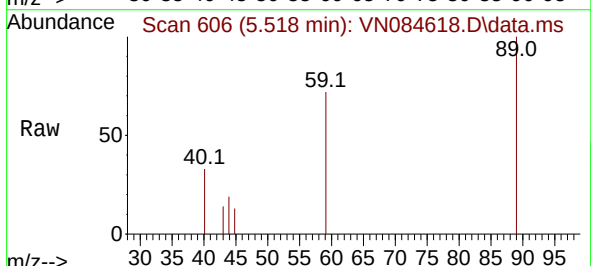
Acq: 31 Oct 2024 14:08

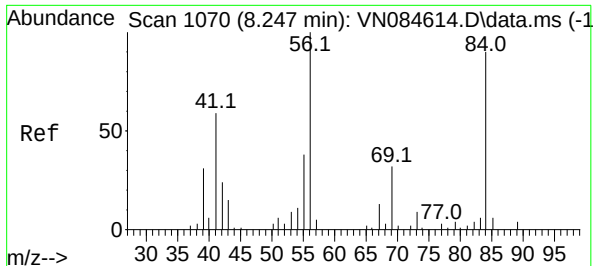
Tgt Ion: 59 Resp: 1135

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0





#26

Cyclohexane

Concen: 0.336 ug/l

RT: 8.247 min Scan# 1126

Delta R.T. 0.000 min

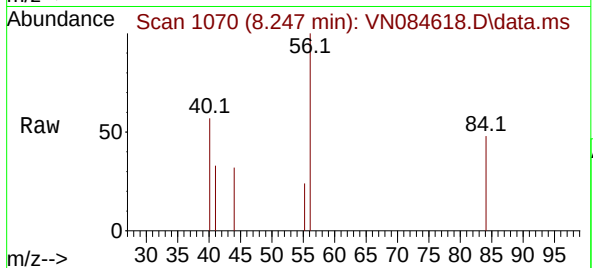
Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

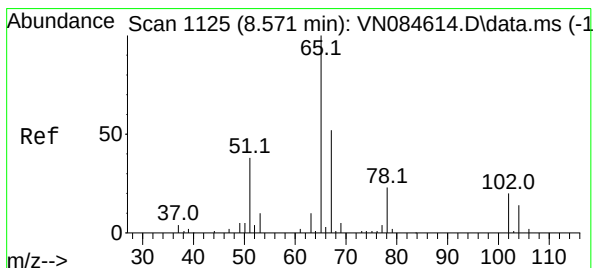
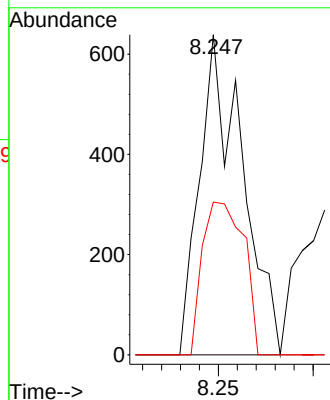
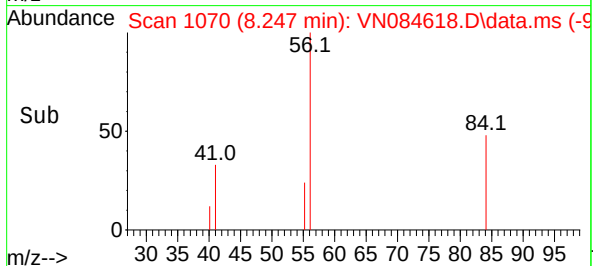
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	56	Resp:	994
Ion Ratio	Lower	Upper	
56	100		
89	0.0	3.0	4.4#
84	46.6	70.6	106.0#



#27

1,2-Dichloroethane-d4

Concen: 29.404 ug/l

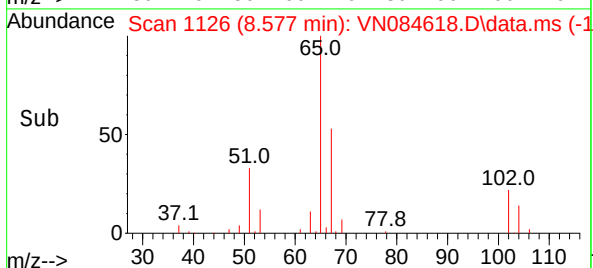
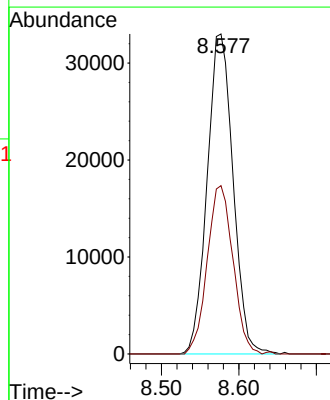
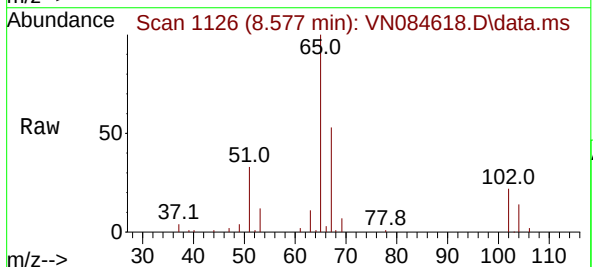
RT: 8.577 min Scan# 1126

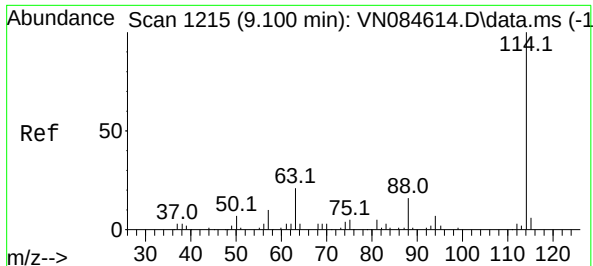
Delta R.T. 0.006 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Tgt Ion:	65	Resp:	76607
Ion Ratio	Lower	Upper	
65	100		
67	52.2	40.7	61.1

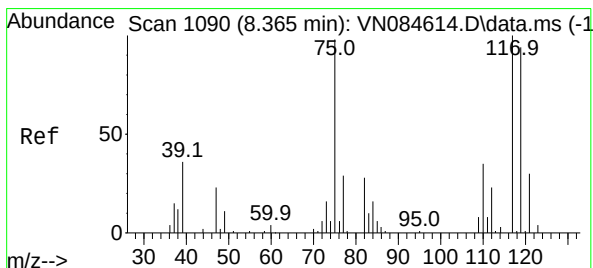
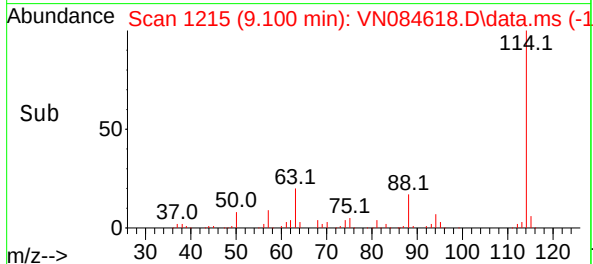
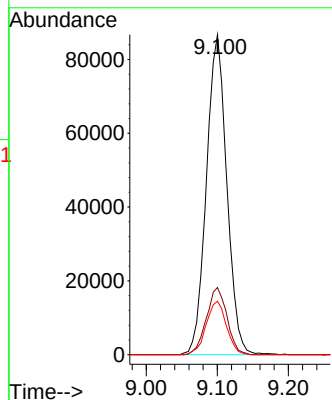
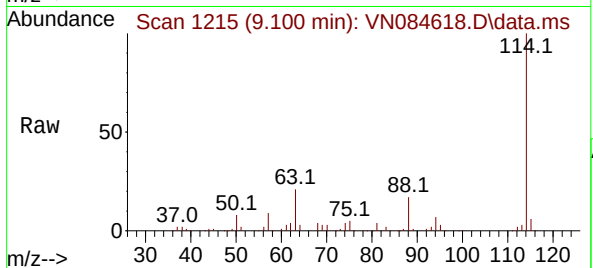




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

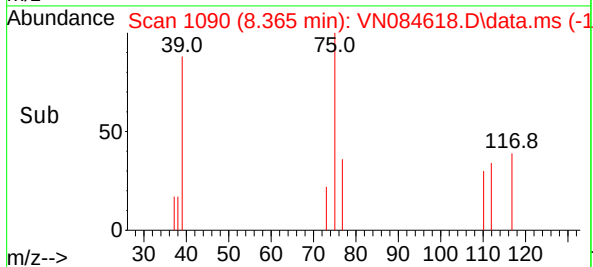
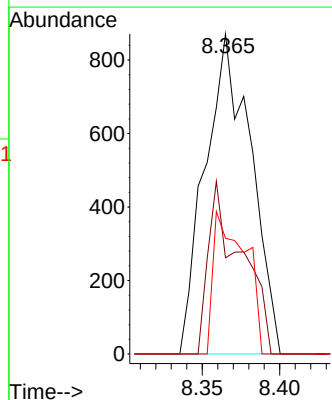
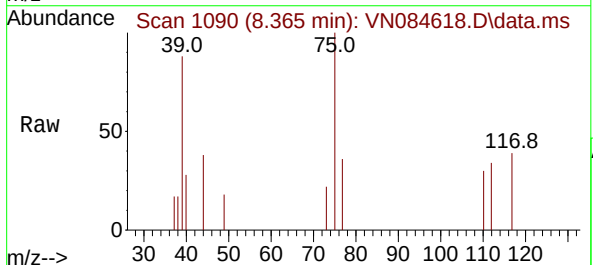
Instrument :
MSVOA_N
ClientSampleId :

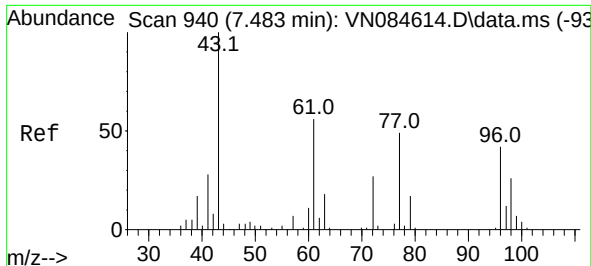
Tgt Ion:114 Resp: 173145
Ion Ratio Lower Upper
114 100
63 21.2 16.8 25.2
88 16.6 12.9 19.3



#29
1,1-Dichloropropene
Concen: 0.686 ug/l
RT: 8.365 min Scan# 1090
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Tgt Ion: 75 Resp: 1788
Ion Ratio Lower Upper
75 100
110 19.6 0.0 69.4
77 25.4 0.0 62.0





#30

2-Butanone

Concen: 0.515 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

ClientSampleId :

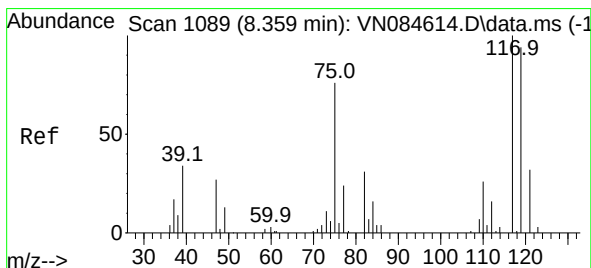
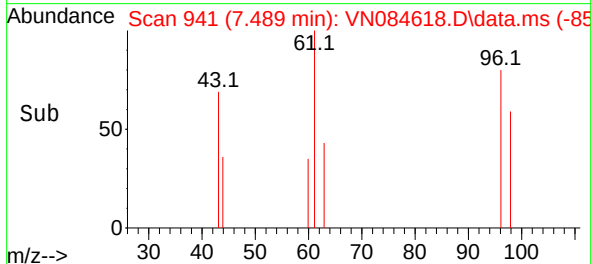
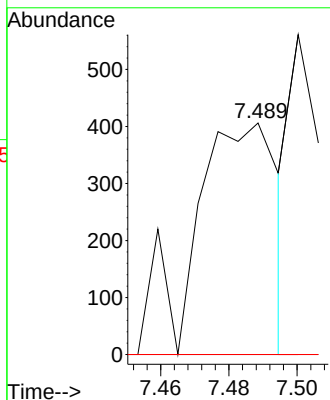
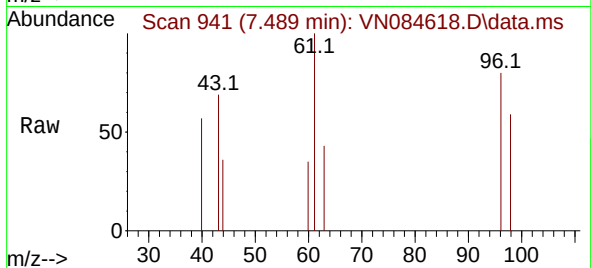
Tgt Ion: 43 Resp: 619

Ion Ratio Lower Upper

43 100

57 0.0 6.2 9.4#

72 0.0 21.5 32.3#



#33

Carbon Tetrachloride

Concen: 0.215 ug/l

RT: 8.359 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

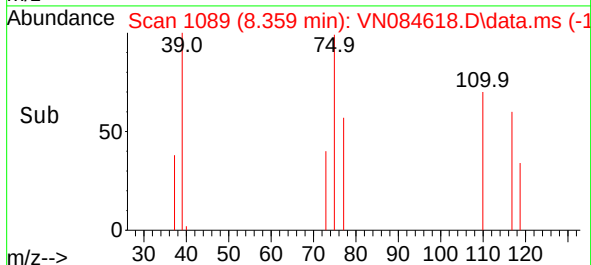
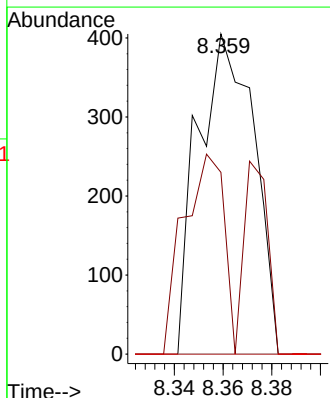
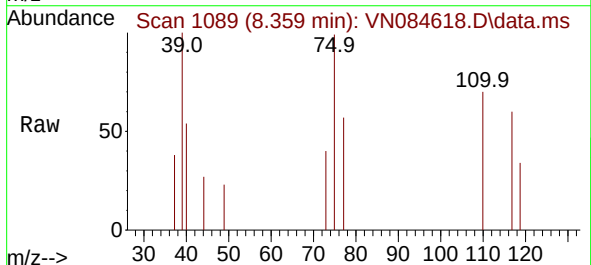
Tgt Ion: 117 Resp: 649

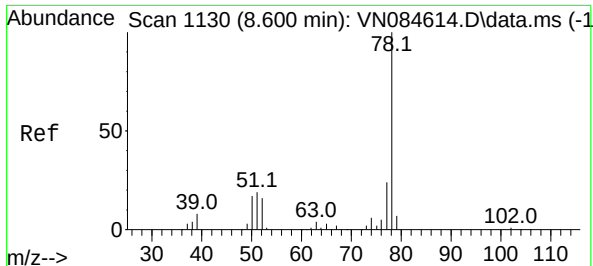
Ion Ratio Lower Upper

117 100

119 56.8 75.7 113.5#

121 0.0 25.4 38.0#

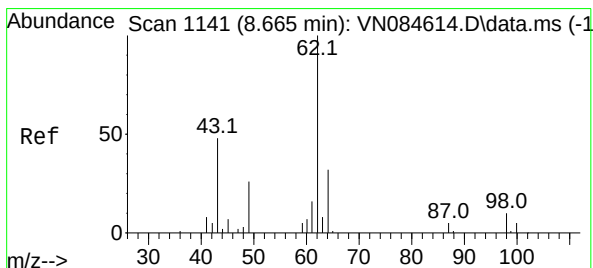
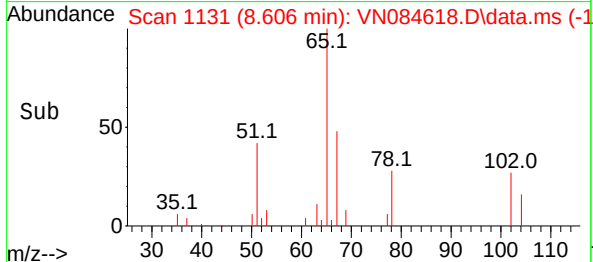
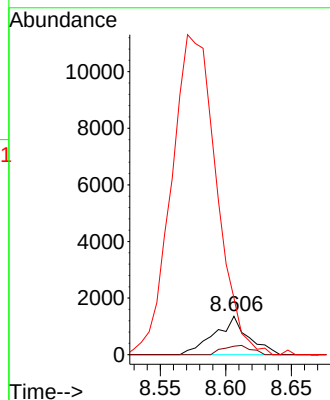
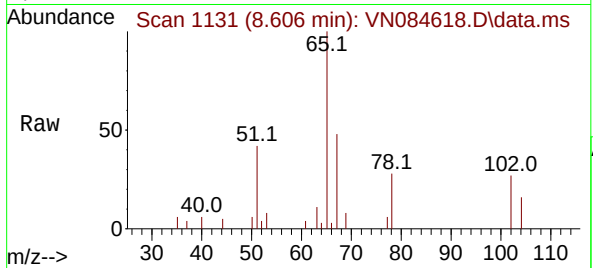




#34
Benzene
Concen: 0.280 ug/l
RT: 8.606 min Scan# 1130
Delta R.T. 0.006 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

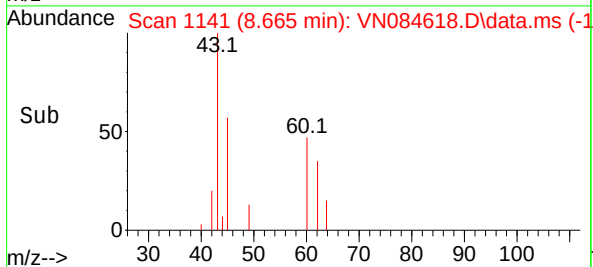
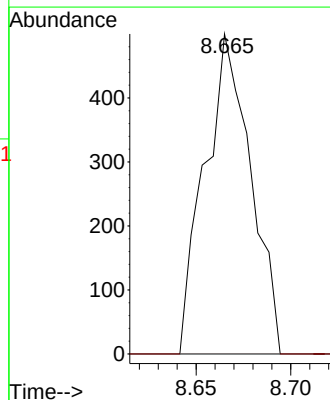
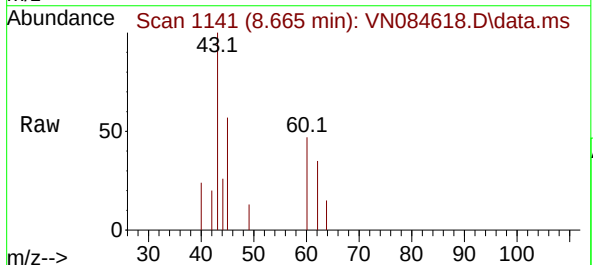
Instrument :
MSVOA_N
ClientSampleId :

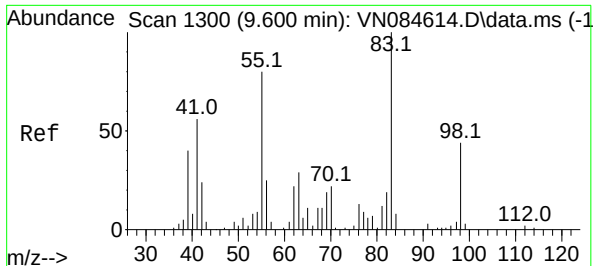
Tgt Ion: 78 Resp: 2416
Ion Ratio Lower Upper
78 100
77 22.0 19.3 28.9
51 147.7 16.1 24.1#



#36
1,2-Dichloroethane
Concen: 0.295 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Tgt Ion: 62 Resp: 845
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.6#

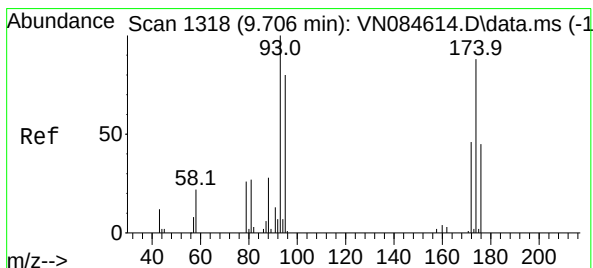
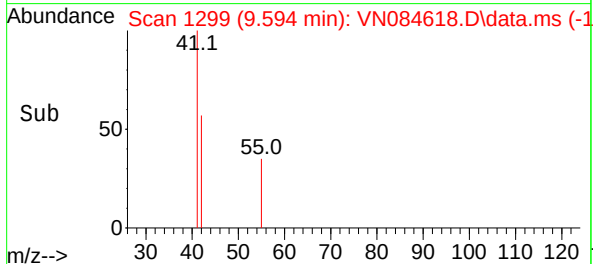
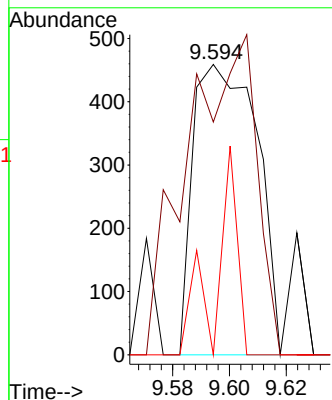
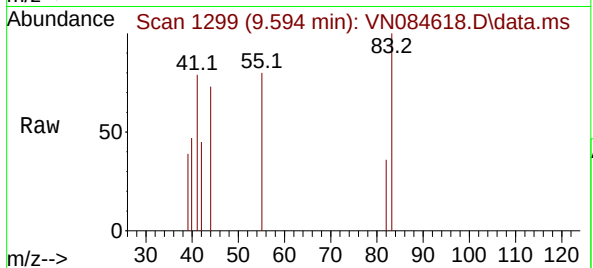




#38
Methylcyclohexane
Concen: 0.256 ug/l
RT: 9.594 min Scan# 1299
Delta R.T. -0.006 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

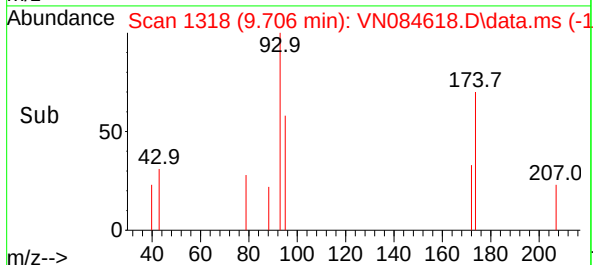
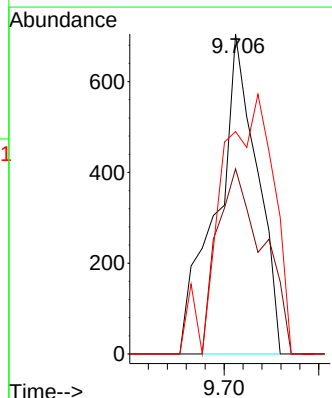
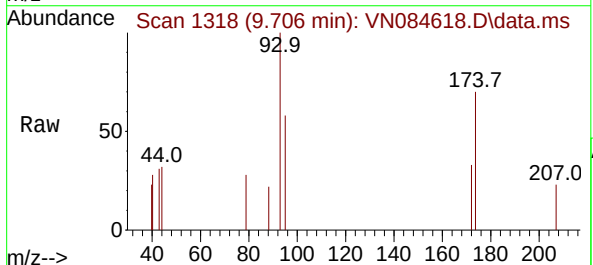
Instrument :
MSVOA_N
ClientSampleId :

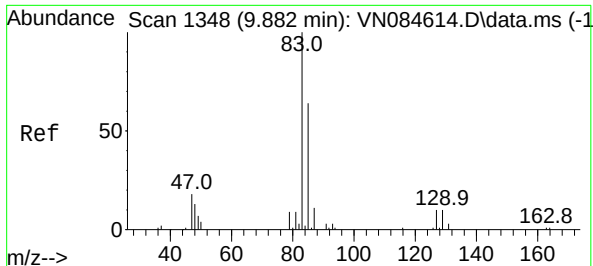
Tgt Ion: 83 Resp: 718
Ion Ratio Lower Upper
83 100
55 56.1 39.6 118.8
98 16.2 23.2 69.5#



#40
Dibromomethane
Concen: 0.719 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

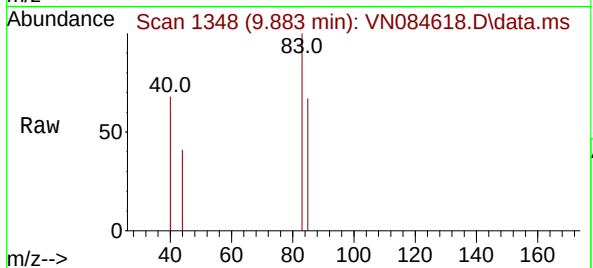
Tgt Ion: 93 Resp: 1044
Ion Ratio Lower Upper
93 100
95 65.5 0.0 168.4
174 55.6 0.0 183.4



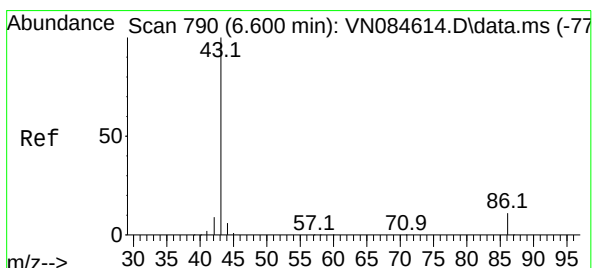
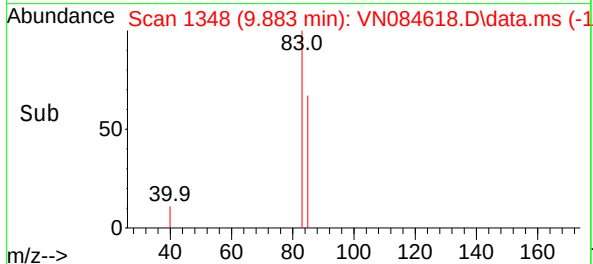
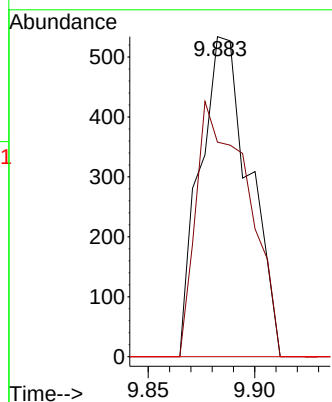


#41
Bromodichloromethane
Concen: 0.277 ug/l
RT: 9.883 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Instrument :
MSVOA_N
ClientSampleId :

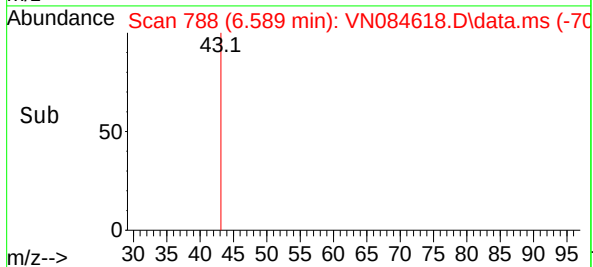
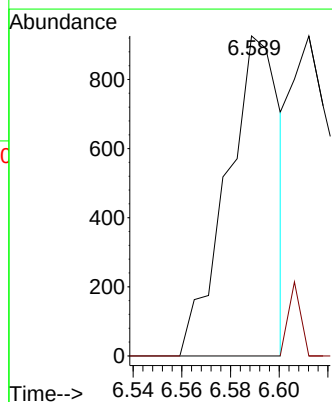
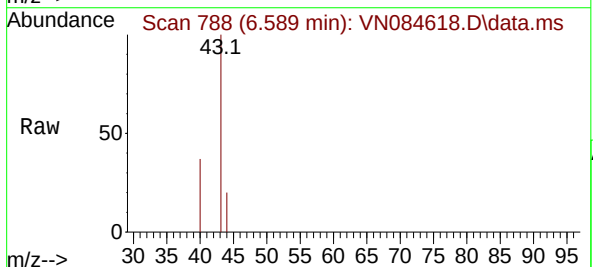


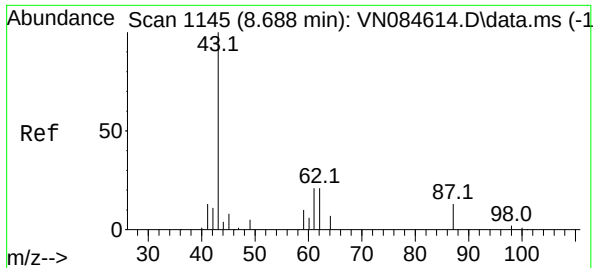
Tgt Ion: 83 Resp: 863
Ion Ratio Lower Upper
83 100
85 67.0 51.0 76.6
127 0.0 7.8 11.6#



#42
Vinyl Acetate
Concen: 0.310 ug/l
RT: 6.589 min Scan# 788
Delta R.T. -0.012 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Tgt Ion: 43 Resp: 1394
Ion Ratio Lower Upper
43 100
86 0.0 8.6 13.0#

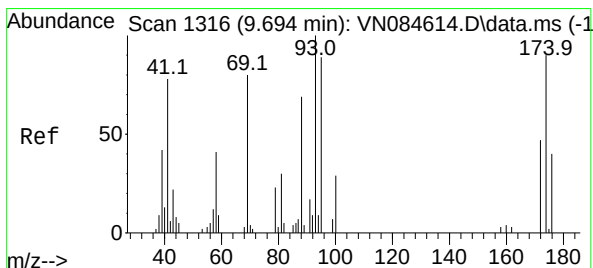
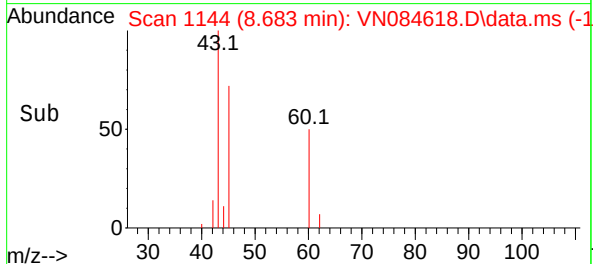
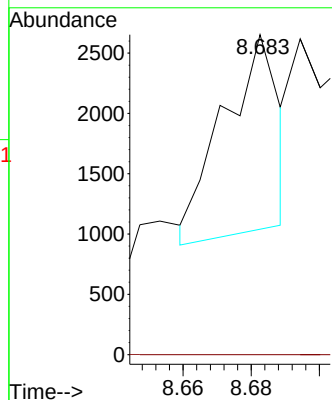
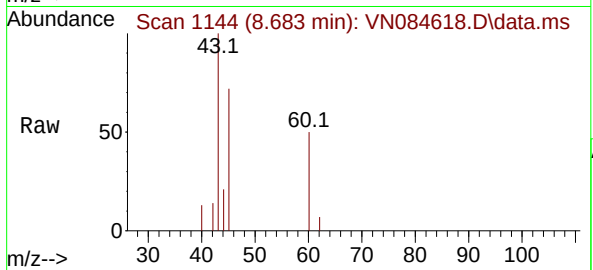




#44
Isopropyl Acetate
Concen: 0.362 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

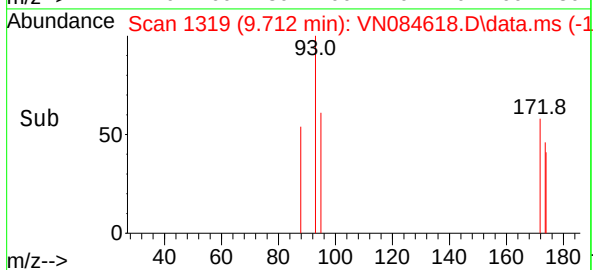
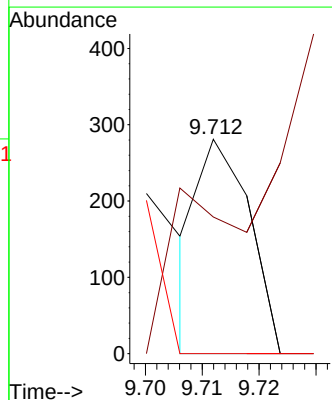
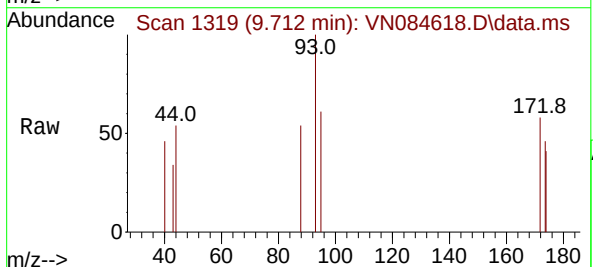
Instrument :
MSVOA_N
ClientSampleId :

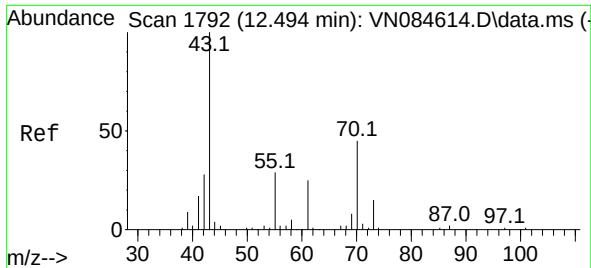
Tgt Ion: 43 Resp: 1853
Ion Ratio Lower Upper
43 100
61 0.0 19.8 29.8#



#45
1,4-Dioxane
Concen: 5.033 ug/l
RT: 9.712 min Scan# 1319
Delta R.T. 0.018 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Tgt Ion: 88 Resp: 172
Ion Ratio Lower Upper
88 100
43 114.0 20.8 31.2#
58 0.0 53.4 80.2#





#47

n-amyl Acetate

Concen: 0.482 ug/l

RT: 12.488 min Scan# 1791

Delta R.T. -0.006 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

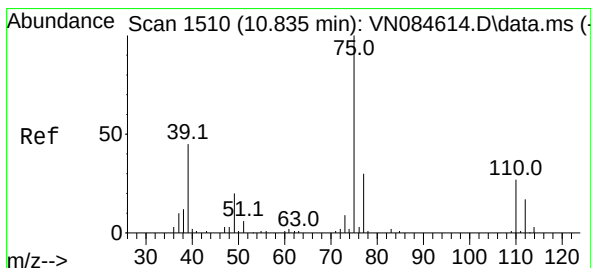
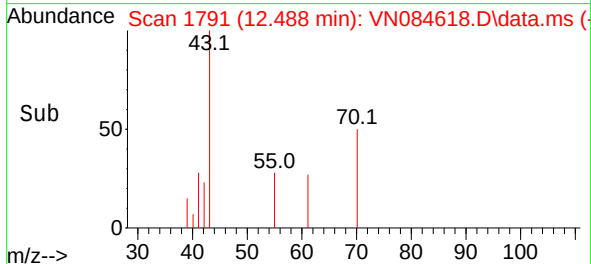
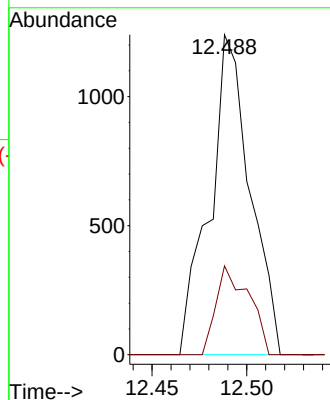
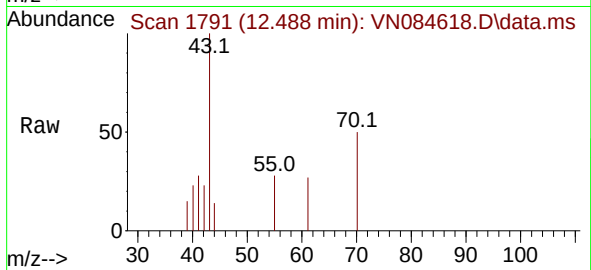
ClientSampleId :

Tgt Ion: 43 Resp: 1843

Ion Ratio Lower Upper

43 100

55 22.5 22.0 33.0



#48

t-1,3-Dichloropropene

Concen: 1.425 ug/l

RT: 10.835 min Scan# 1510

Delta R.T. 0.000 min

Lab File: VN084618.D

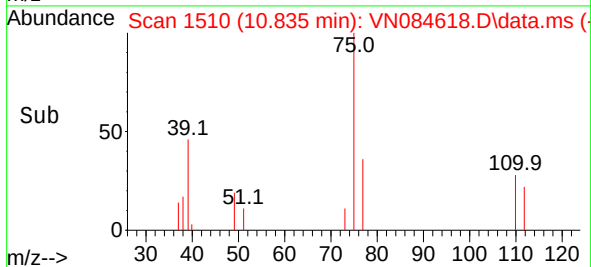
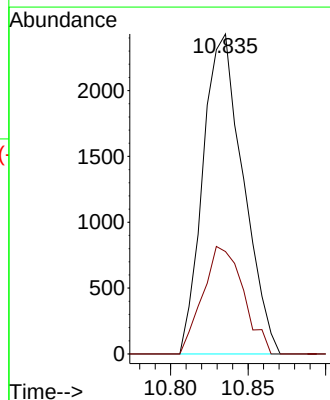
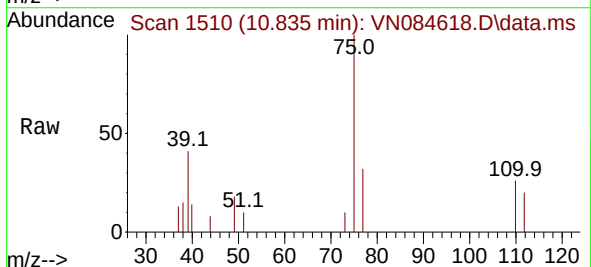
Acq: 31 Oct 2024 14:08

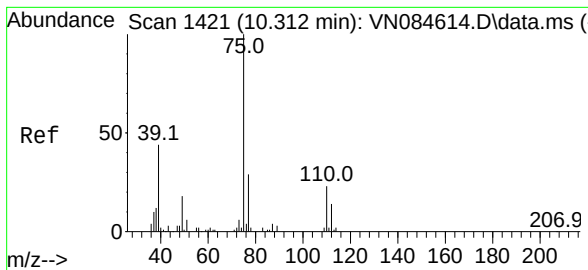
Tgt Ion: 75 Resp: 4378

Ion Ratio Lower Upper

75 100

77 32.0 24.4 36.6

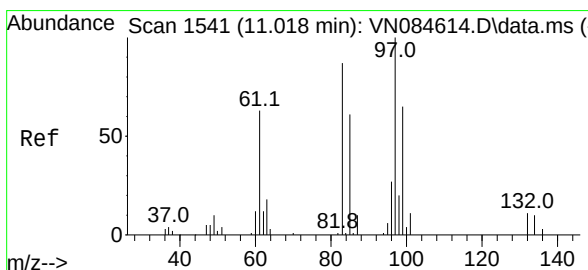
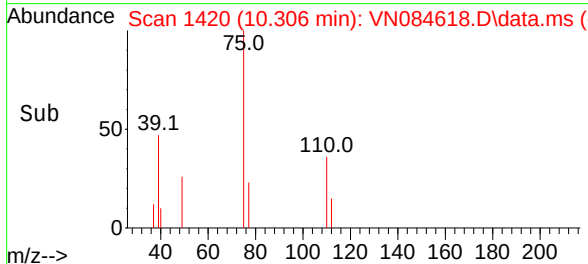
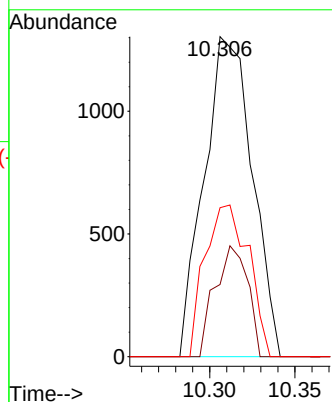
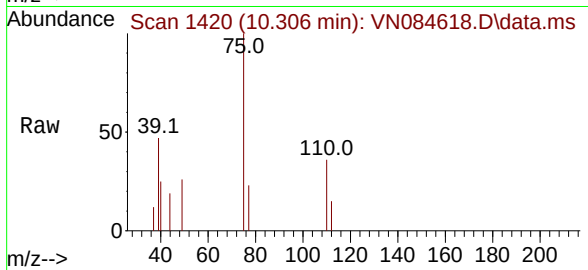




#49
 cis-1,3-Dichloropropene
 Concen: 0.778 ug/l
 RT: 10.306 min Scan# 1420
 Delta R.T. -0.006 min
 Lab File: VN084618.D
 Acq: 31 Oct 2024 14:08

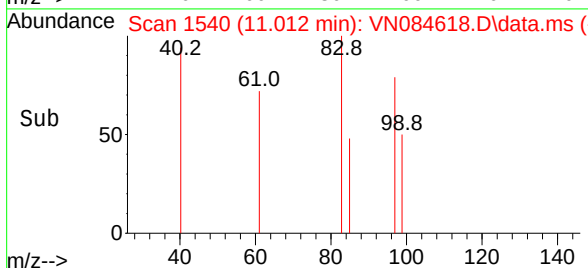
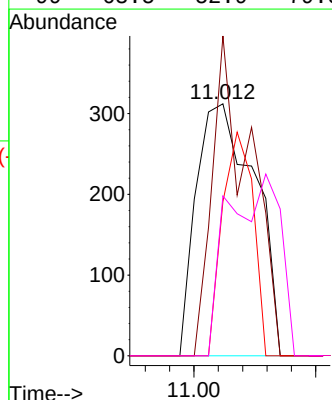
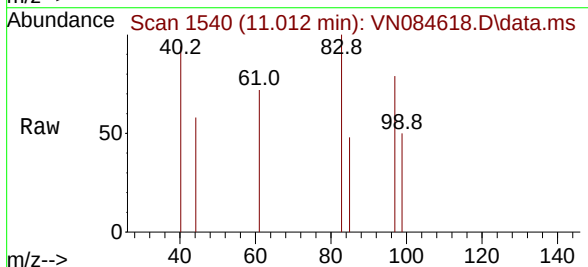
Instrument :
 MSVOA_N
 ClientSampleId :

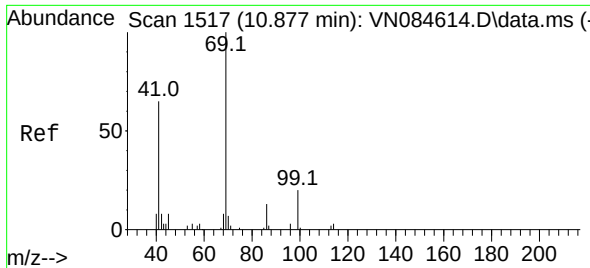
Tgt Ion: 75 Resp: 2563
 Ion Ratio Lower Upper
 75 100
 77 22.5 23.4 35.2#
 39 46.5 35.4 53.2



#50
 1,1,2-Trichloroethane
 Concen: 0.267 ug/l
 RT: 11.012 min Scan# 1540
 Delta R.T. -0.006 min
 Lab File: VN084618.D
 Acq: 31 Oct 2024 14:08

Tgt Ion: 97 Resp: 520
 Ion Ratio Lower Upper
 97 100
 83 126.9 69.8 104.8#
 85 61.2 48.6 73.0
 99 63.5 52.9 79.3

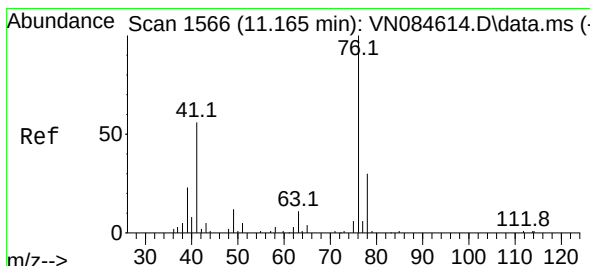
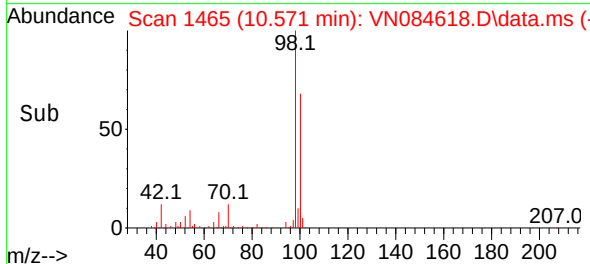
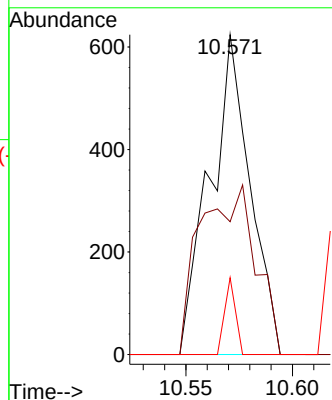
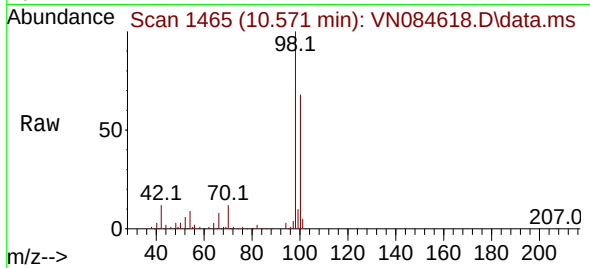




#51
Ethyl methacrylate
Concen: 0.274 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.306 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

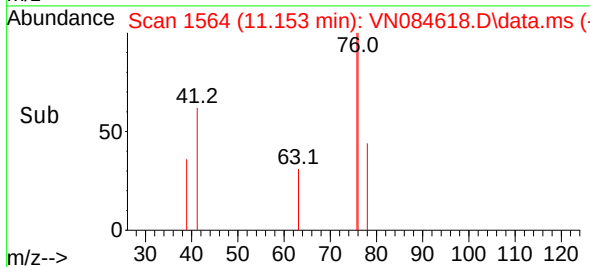
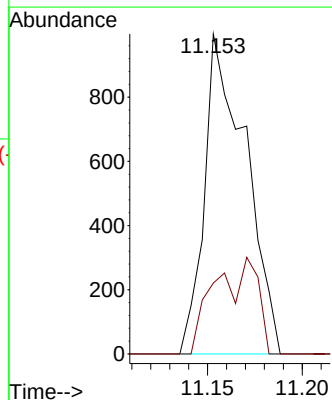
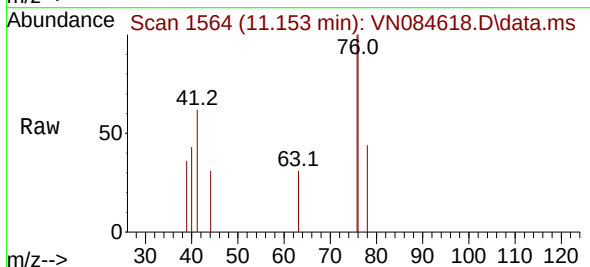
Instrument :
MSVOA_N
ClientSampleId :

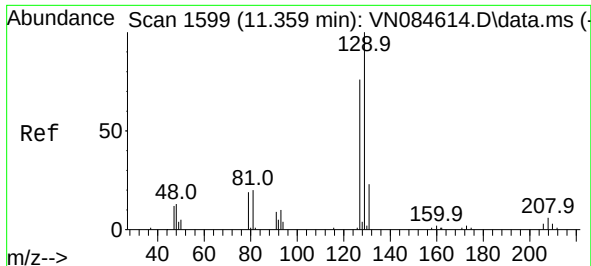
Tgt Ion: 69 Resp: 821
Ion Ratio Lower Upper
69 100
41 41.5 32.8 98.3
39 24.0 15.4 46.1



#52
1,3-Dichloropropane
Concen: 0.446 ug/l
RT: 11.153 min Scan# 1564
Delta R.T. -0.012 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Tgt Ion: 76 Resp: 1508
Ion Ratio Lower Upper
76 100
78 18.6 0.0 64.0





#53

Dibromochloromethane

Concen: 0.535 ug/l

RT: 11.365 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

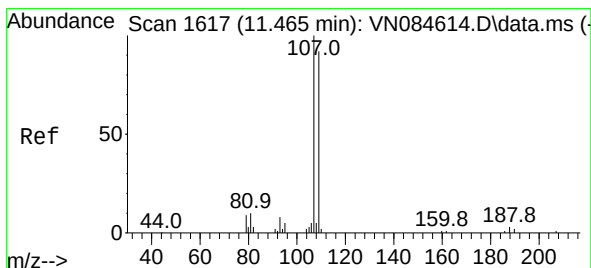
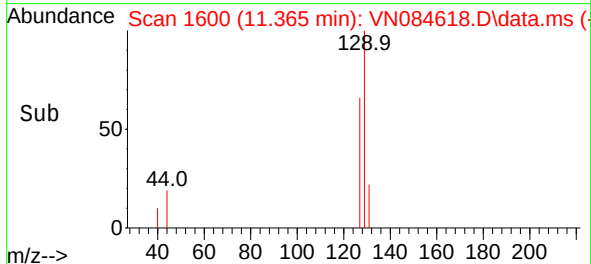
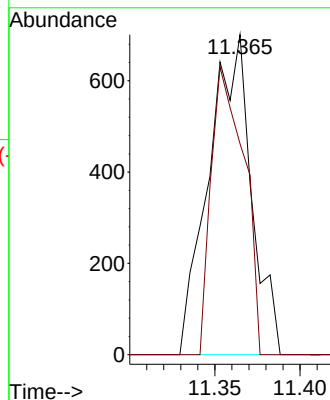
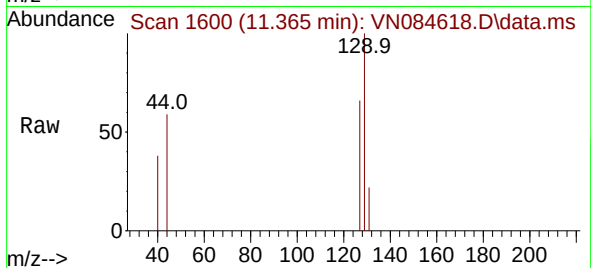
ClientSampleId :

Tgt Ion:129 Resp: 1220

Ion Ratio Lower Upper

129 100

127 69.3 39.6 119.0



#54

1,2-Dibromoethane

Concen: 0.803 ug/l

RT: 11.471 min Scan# 1618

Delta R.T. 0.006 min

Lab File: VN084618.D

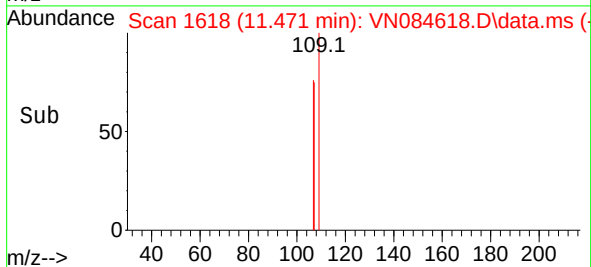
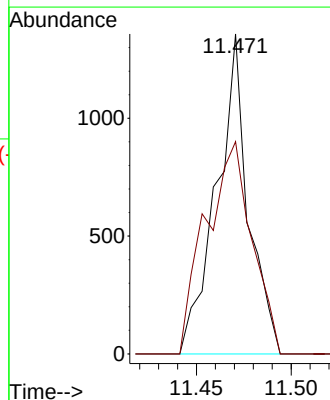
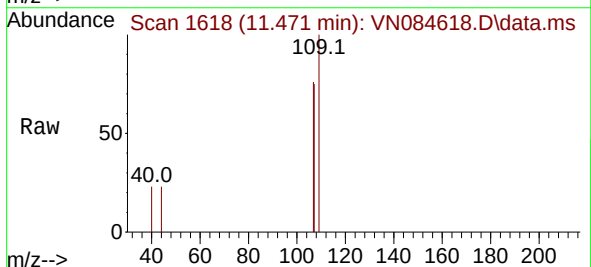
Acq: 31 Oct 2024 14:08

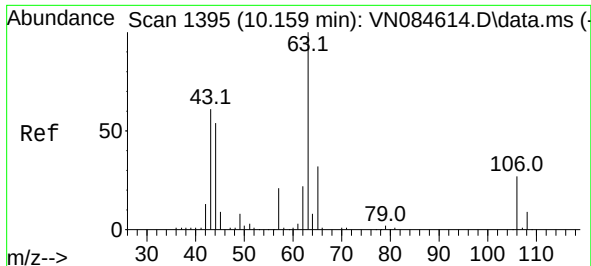
Tgt Ion:107 Resp: 1581

Ion Ratio Lower Upper

107 100

109 96.5 73.4 110.0





#55

2-Chloroethyl vinyl ether

Concen: 1.343 ug/l

RT: 10.159 min Scan# 1395

Delta R.T. 0.000 min

Lab File: VN084618.D

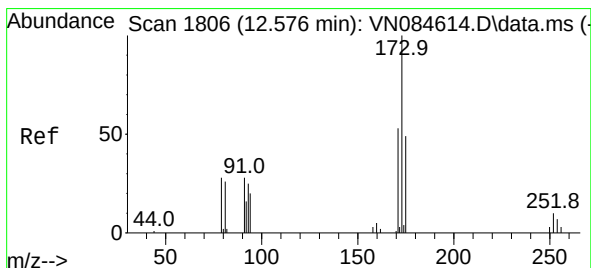
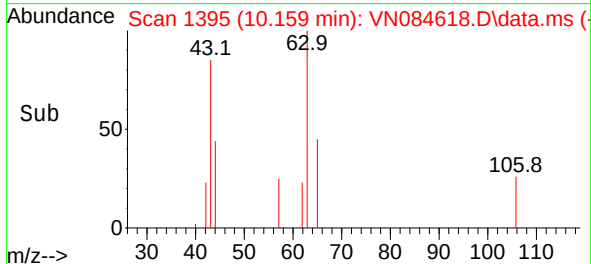
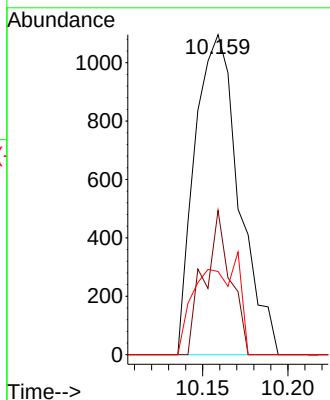
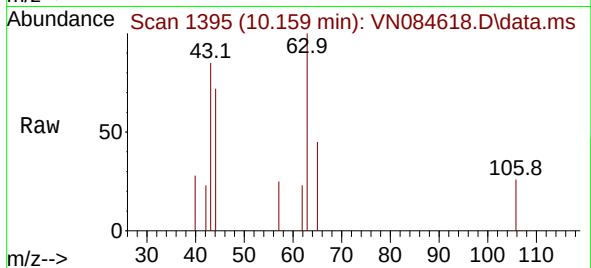
Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion: 63	Resp:	1976
Ion Ratio	Lower	Upper
63	100	
65	26.7	25.5 38.3
106	22.0	22.3 33.5#



#56

Bromoform

Concen: 0.551 ug/l

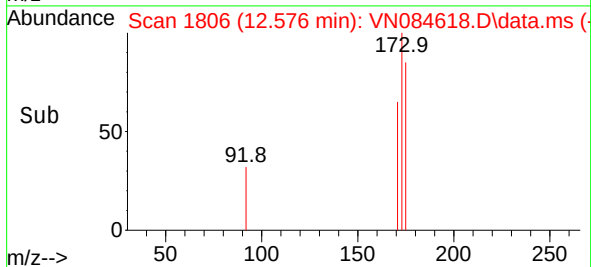
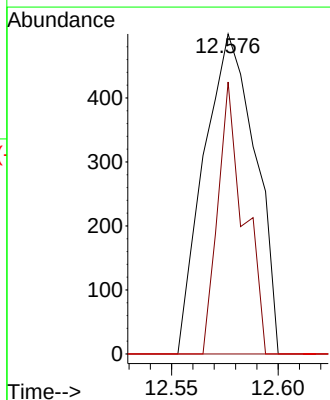
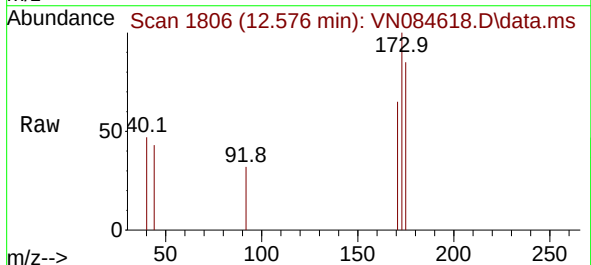
RT: 12.576 min Scan# 1806

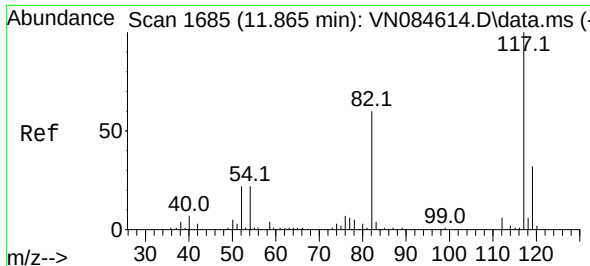
Delta R.T. 0.000 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Tgt Ion: 173	Resp:	841
Ion Ratio	Lower	Upper
173	100	
175	43.0	39.4 59.2
254	0.0	6.4 9.6#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

ClientSampleId :

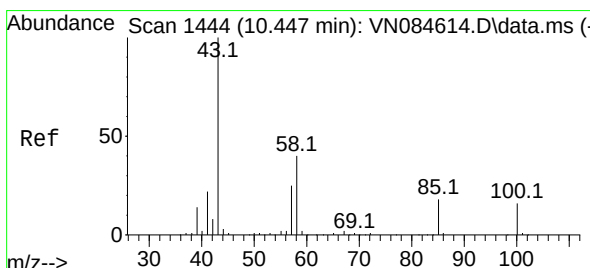
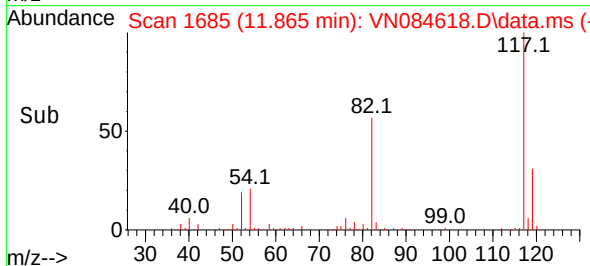
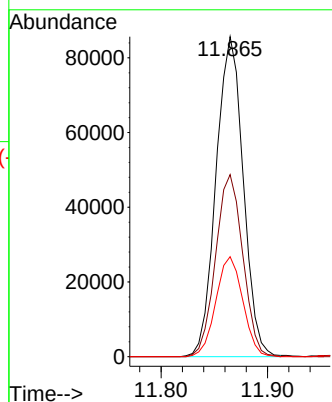
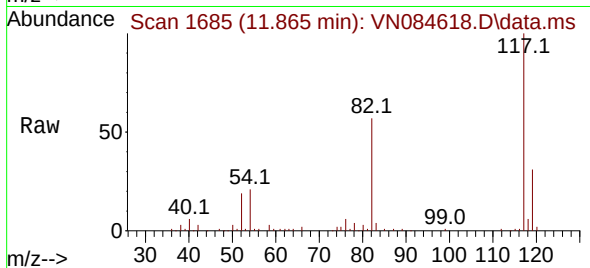
Tgt Ion:117 Resp: 152051

Ion Ratio Lower Upper

117 100

82 56.8 45.5 68.3

119 30.9 25.3 37.9



#58

4-Methyl-2-Pentanone

Concen: 0.666 ug/l

RT: 10.441 min Scan# 1443

Delta R.T. -0.006 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

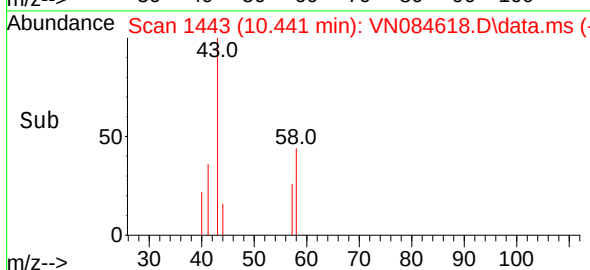
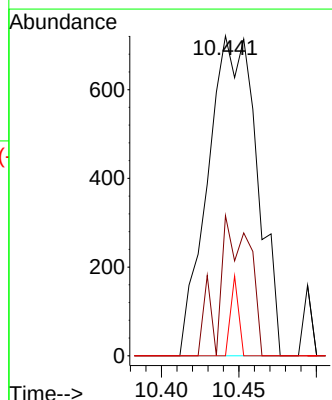
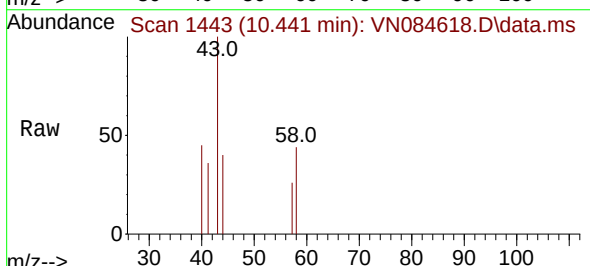
Tgt Ion: 43 Resp: 1597

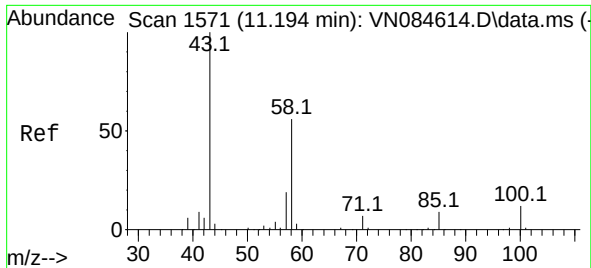
Ion Ratio Lower Upper

43 100

58 11.7 31.2 46.8#

85 0.0 14.9 22.3#





#59

2-Hexanone

Concen: 1.564 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.000 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

ClientSampleId :

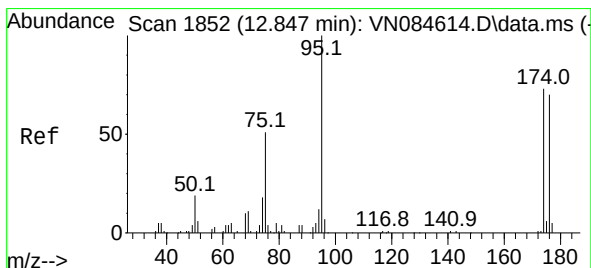
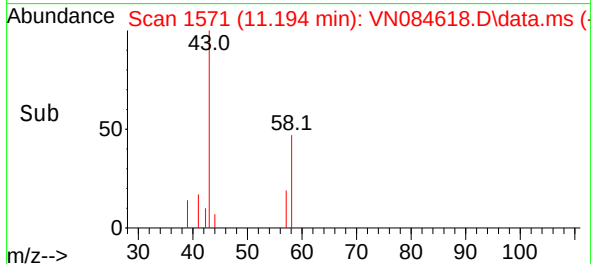
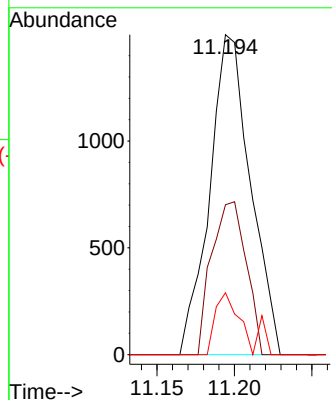
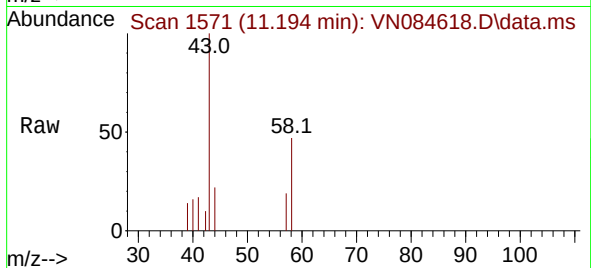
Tgt Ion: 43 Resp: 2747

Ion Ratio Lower Upper

43 100

58 40.4 43.8 65.6#

57 11.0 15.0 22.6#



#60

4-Bromofluorobenzene

Concen: 26.176 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.000 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

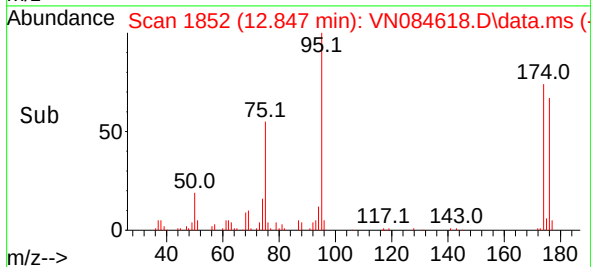
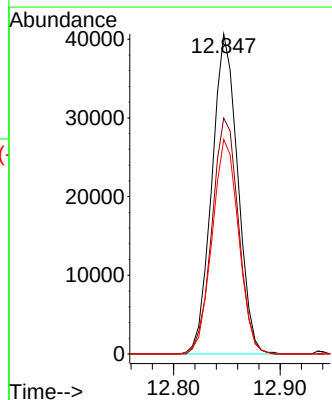
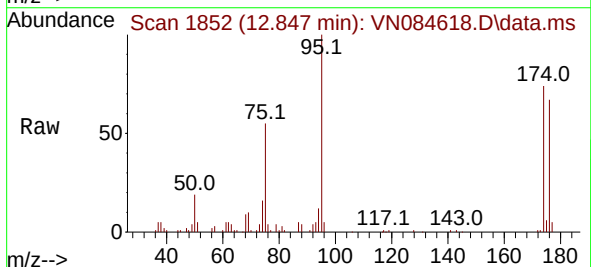
Tgt Ion: 95 Resp: 68530

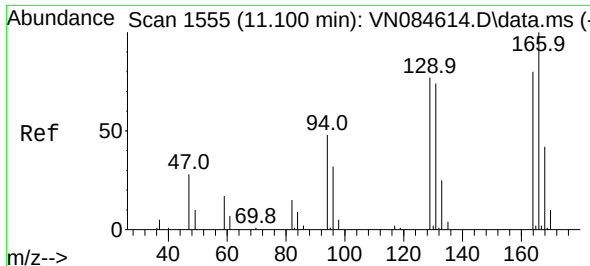
Ion Ratio Lower Upper

95 100

174 75.3 59.6 89.4

176 68.7 58.6 88.0





#61

Tetrachloroethene

Concen: 1.096 ug/l

RT: 11.100 min Scan# 1555

Delta R.T. 0.000 min

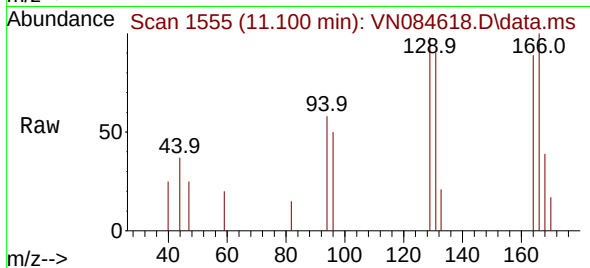
Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:164 Resp: 1744

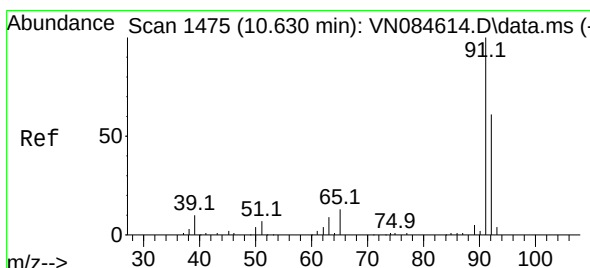
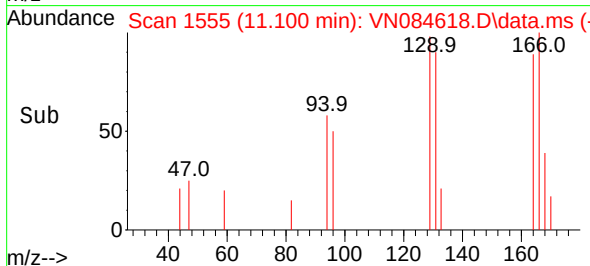
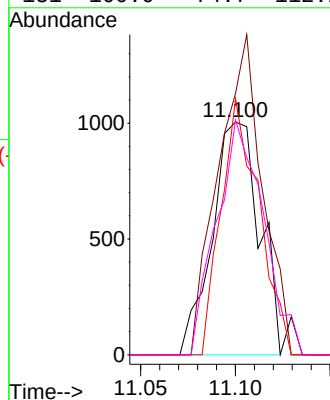
Ion Ratio Lower Upper

164 100

166 112.3 100.5 150.7

129 110.0 77.7 116.5

131 100.9 74.7 112.1



#62

Toluene

Concen: 0.558 ug/l

RT: 10.630 min Scan# 1475

Delta R.T. 0.000 min

Lab File: VN084618.D

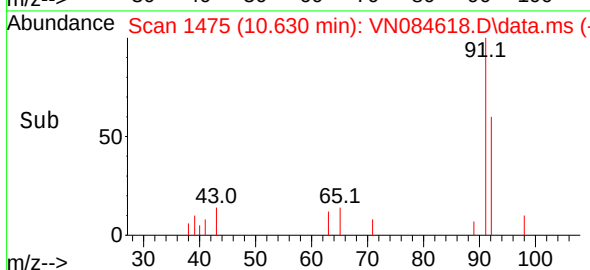
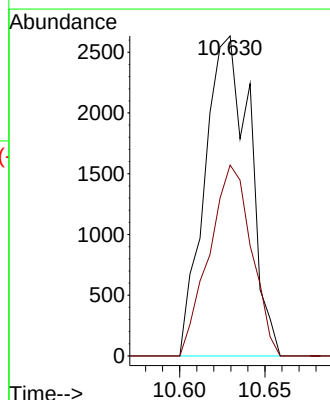
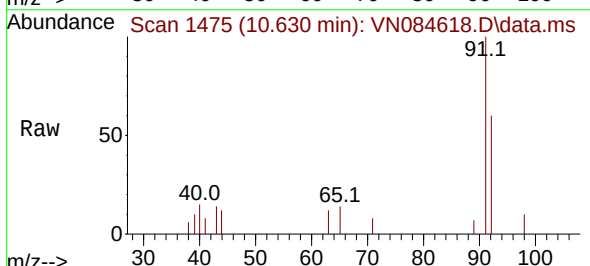
Acq: 31 Oct 2024 14:08

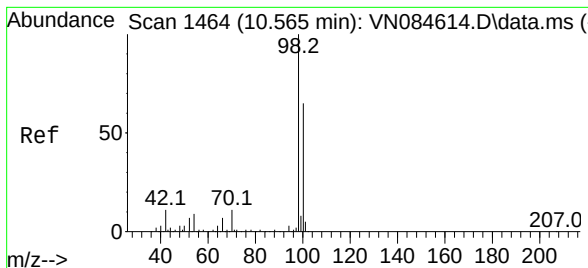
Tgt Ion: 91 Resp: 4835

Ion Ratio Lower Upper

91 100

92 56.1 47.5 71.3





#63

Toluene-d8

Concen: 28.992 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

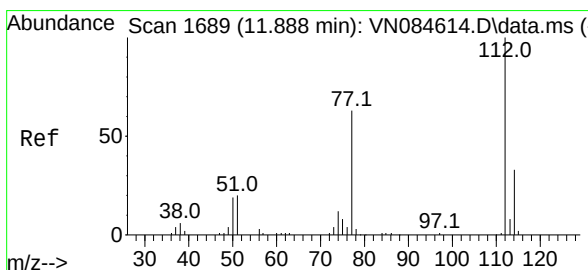
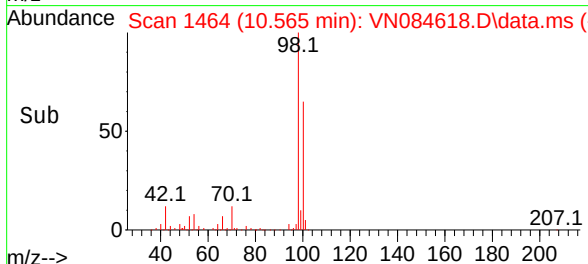
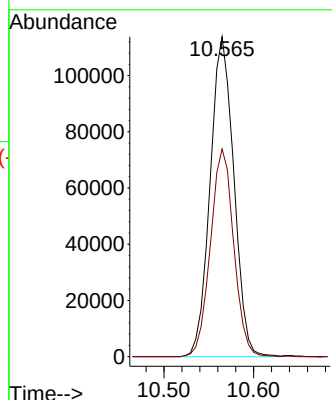
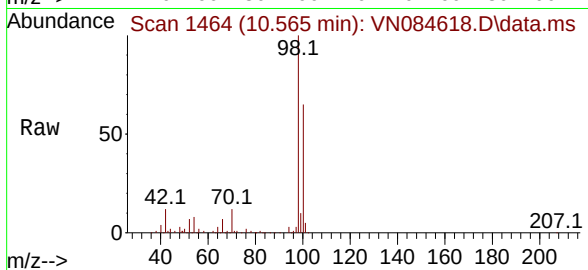
ClientSampleId :

Tgt Ion: 98 Resp: 208685

Ion Ratio Lower Upper

98 100

100 63.7 52.2 78.2



#64

Chlorobenzene

Concen: 1.572 ug/l

RT: 11.888 min Scan# 1689

Delta R.T. 0.000 min

Lab File: VN084618.D

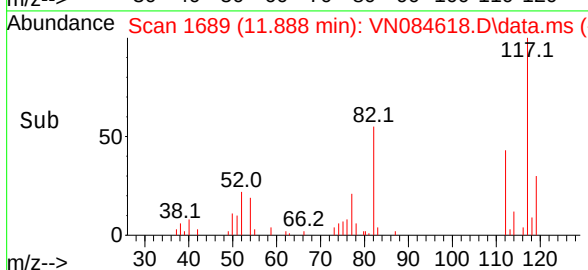
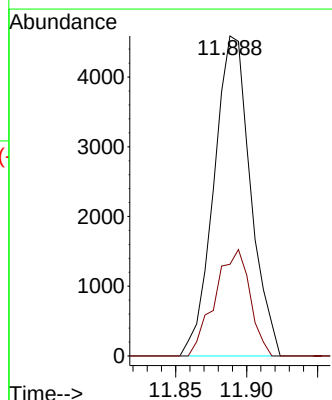
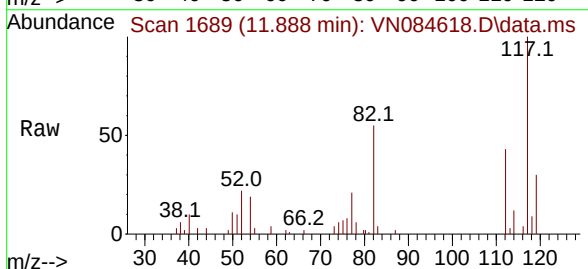
Acq: 31 Oct 2024 14:08

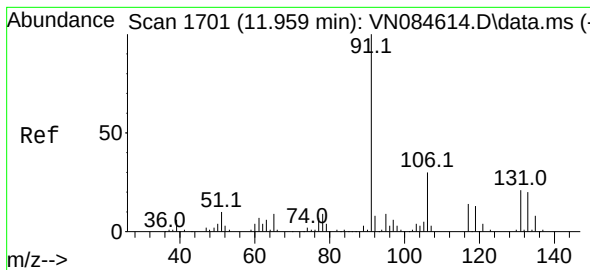
Tgt Ion: 112 Resp: 8217

Ion Ratio Lower Upper

112 100

114 28.6 26.2 39.4

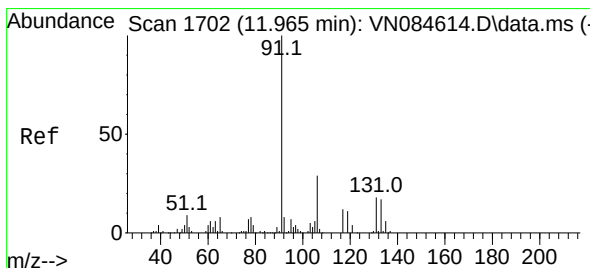
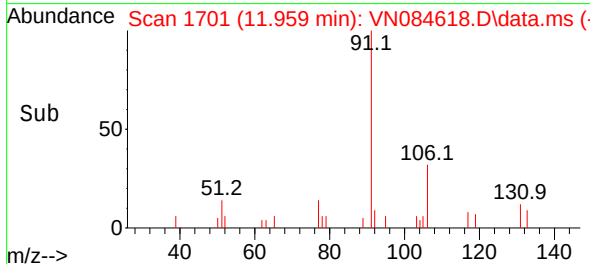
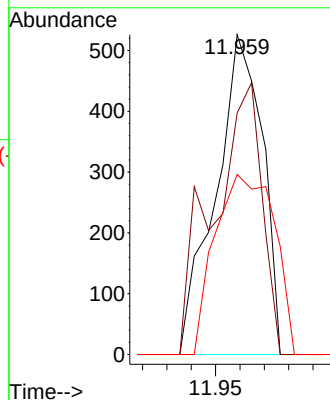
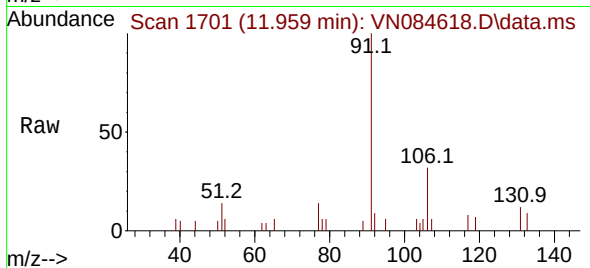




#65
1,1,1,2-Tetrachloroethane
Concen: 0.365 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

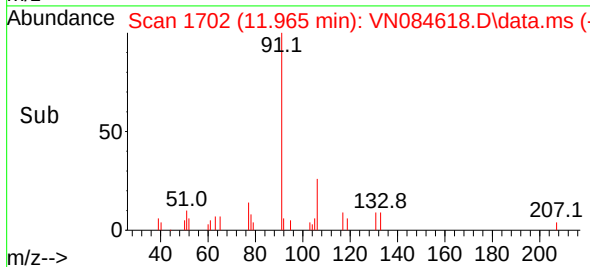
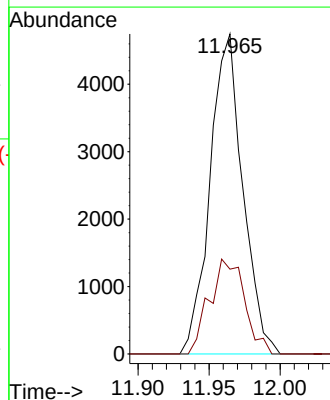
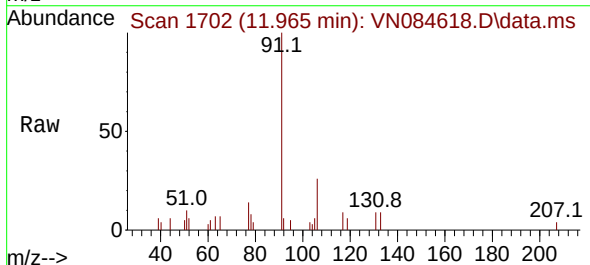
Instrument :
MSVOA_N
ClientSampleId :

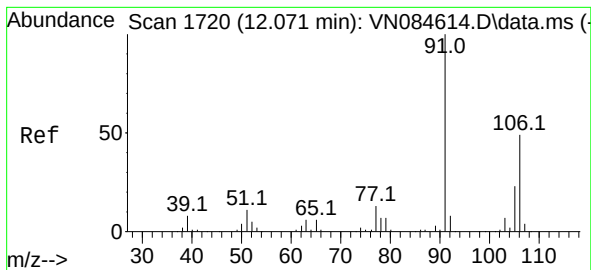
Tgt Ion:131 Resp: 702
Ion Ratio Lower Upper
131 100
133 64.1 0.0 189.2
119 71.7 0.0 129.4



#66
Ethyl Benzene
Concen: 0.836 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Tgt Ion: 91 Resp: 7608
Ion Ratio Lower Upper
91 100
106 26.5 22.9 34.3

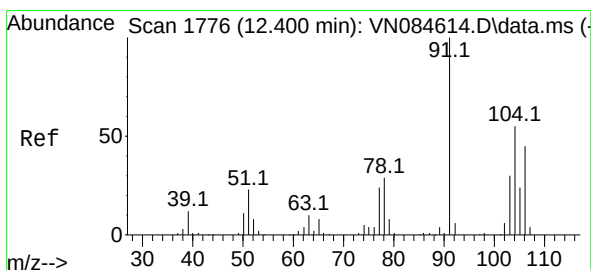
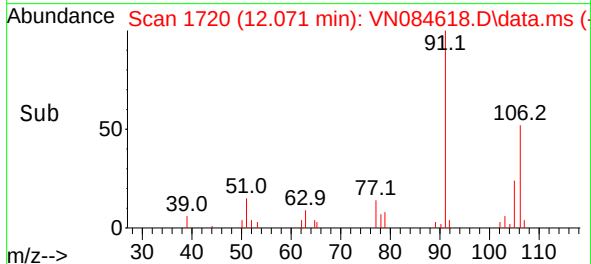
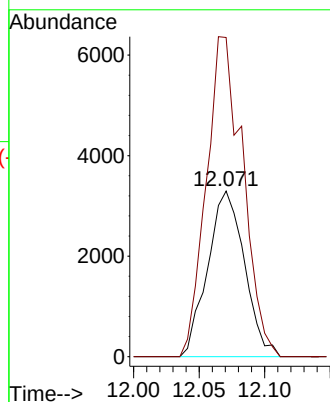
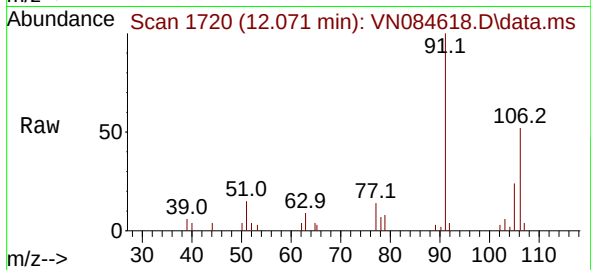




#67
m/p-Xylenes
Concen: 1.847 ug/l
RT: 12.071 min Scan# 1720
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

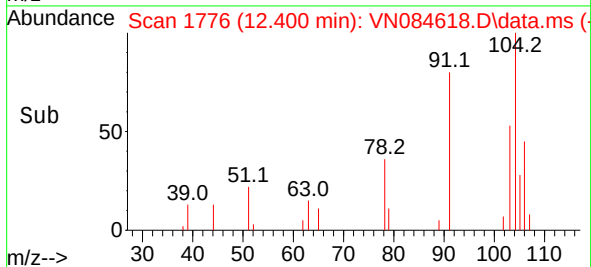
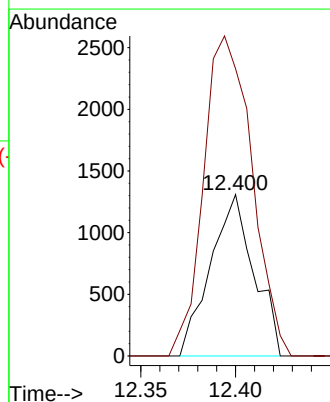
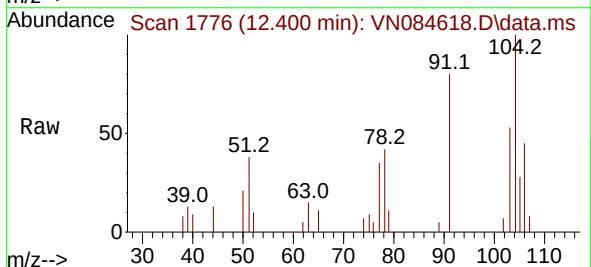
Instrument :
MSVOA_N
ClientSampleId :

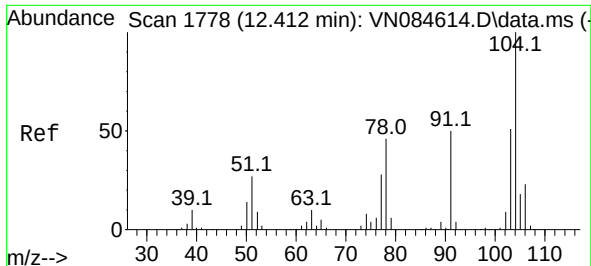
Tgt Ion:106 Resp: 6437
Ion Ratio Lower Upper
106 100
91 191.4 168.1 252.1



#68
o-Xylene
Concen: 0.622 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Tgt Ion:106 Resp: 2091
Ion Ratio Lower Upper
106 100
91 220.4 107.7 322.9





#69

Styrene

Concen: 1.341 ug/l

RT: 12.412 min Scan# 1778

Delta R.T. 0.000 min

Lab File: VN084618.D

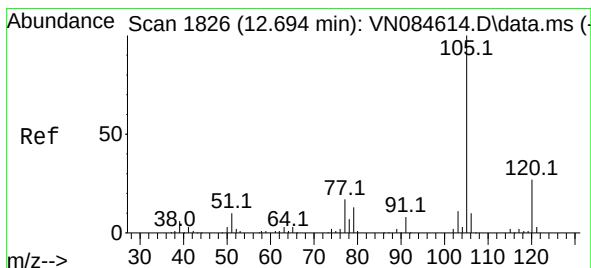
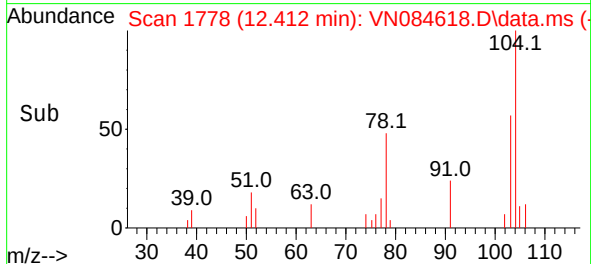
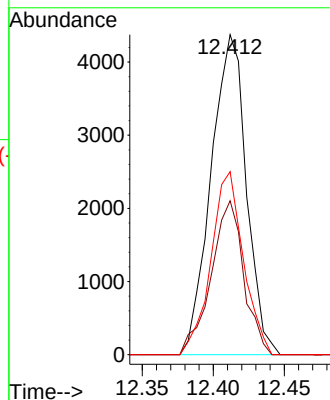
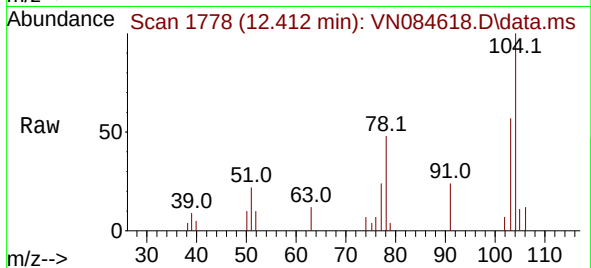
Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:104	Resp:	7556
Ion Ratio	Lower	Upper
104	100	
78	44.5	41.5 62.3
103	52.6	44.6 67.0



#70

Isopropylbenzene

Concen: 0.748 ug/l

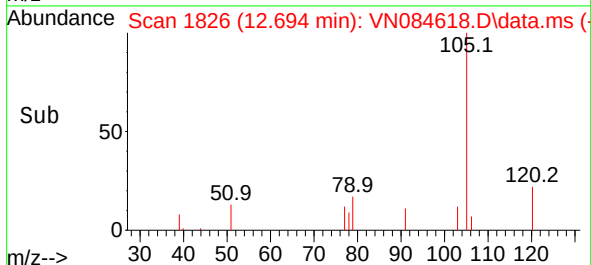
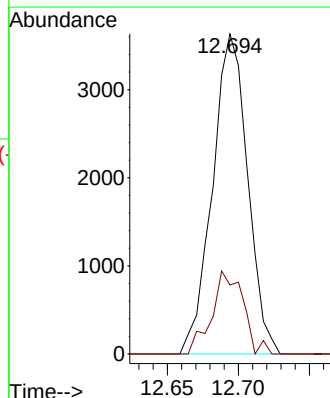
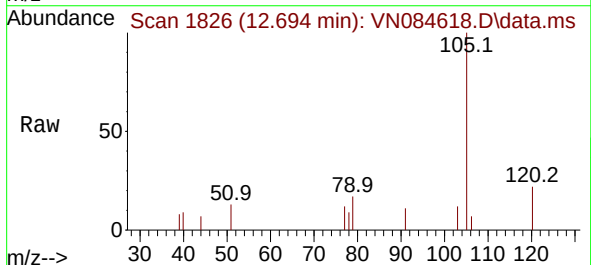
RT: 12.694 min Scan# 1826

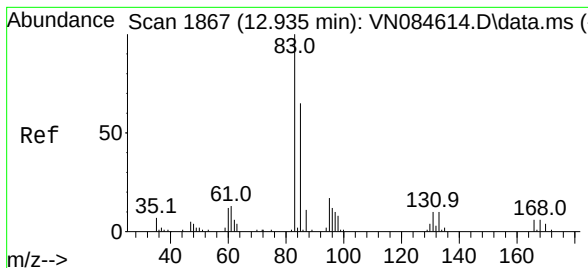
Delta R.T. 0.000 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Tgt Ion:105	Resp:	6248
Ion Ratio	Lower	Upper
105	100	
120	22.2	18.7 34.7

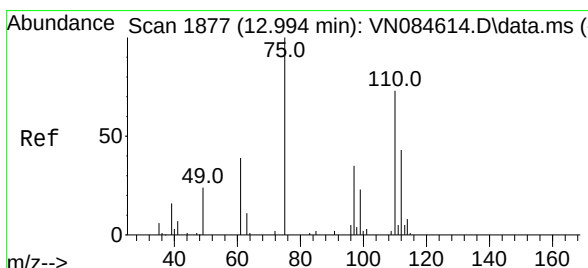
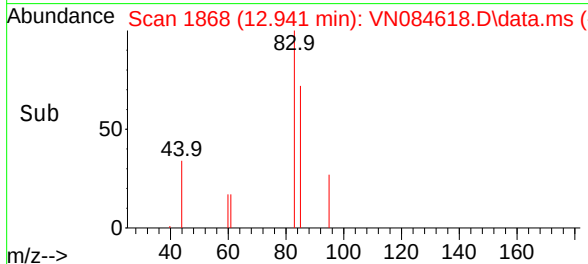
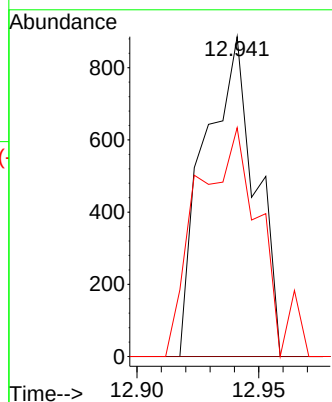
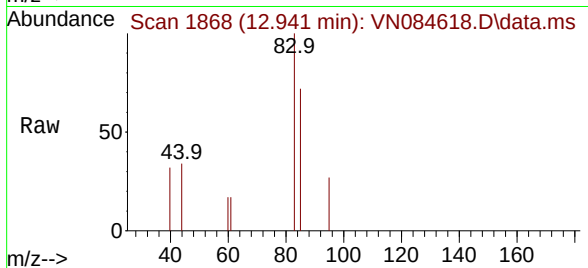




#71
1,1,2,2-Tetrachloroethane
Concen: 0.475 ug/l
RT: 12.941 min Scan# 1868
Delta R.T. 0.006 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

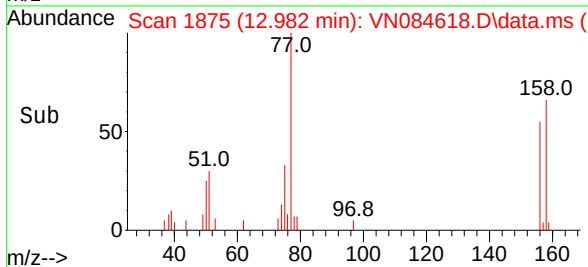
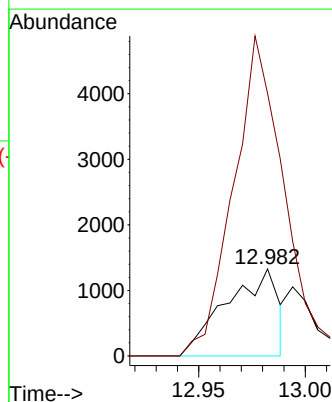
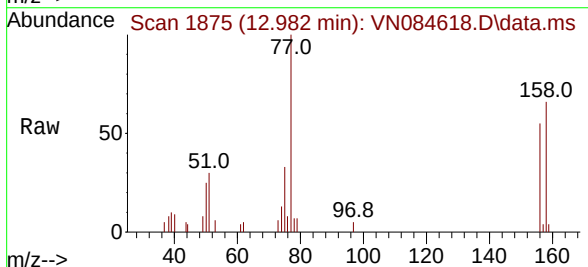
Instrument :
MSVOA_N
ClientSampleId :

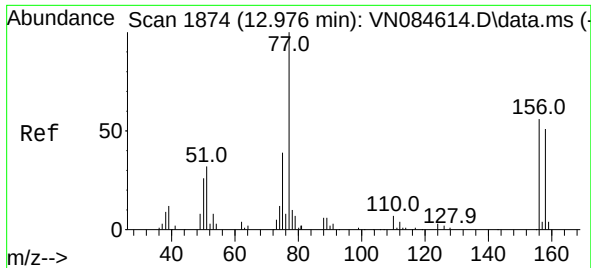
Tgt Ion: 83 Resp: 1286
Ion Ratio Lower Upper
83 100
131 0.0 5.1 15.3#
85 51.9 33.3 99.9



#72
1,2,3-Trichloropropane
Concen: 0.974 ug/l
RT: 12.982 min Scan# 1875
Delta R.T. -0.012 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Tgt Ion: 75 Resp: 2252
Ion Ratio Lower Upper
75 100
77 354.3 0.0 358.4

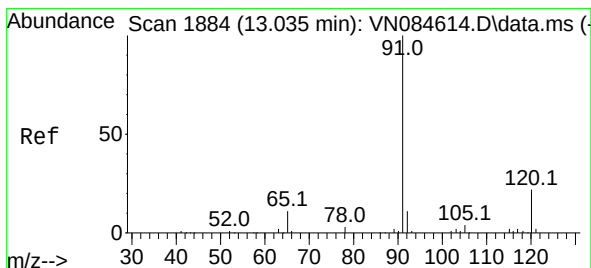
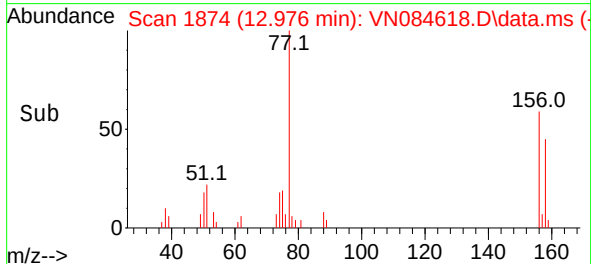
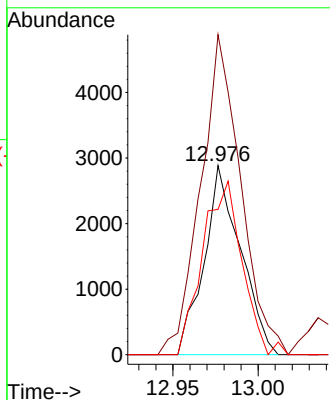
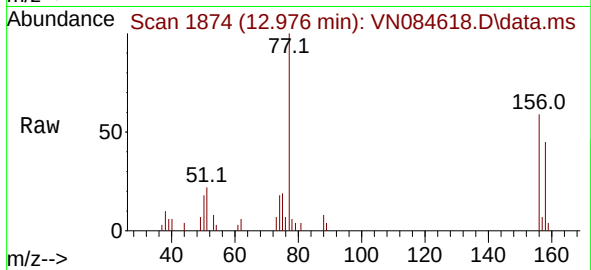




#73
Bromobenzene
Concen: 1.992 ug/l
RT: 12.976 min Scan# 1874
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

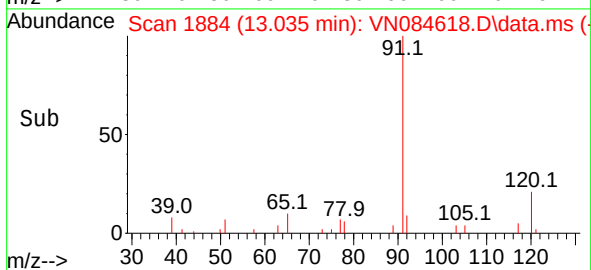
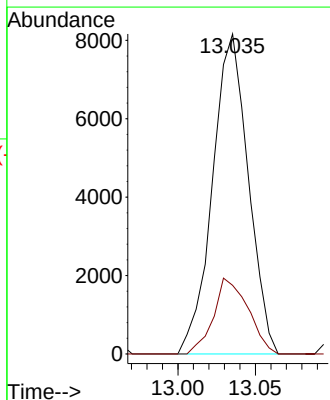
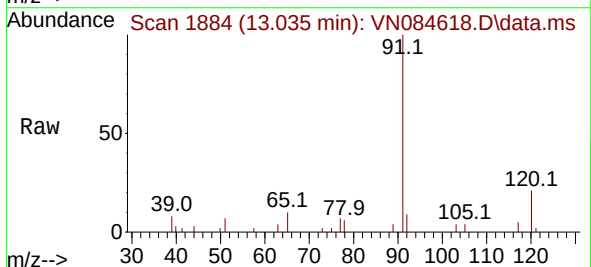
Instrument :
MSVOA_N
ClientSampleId :

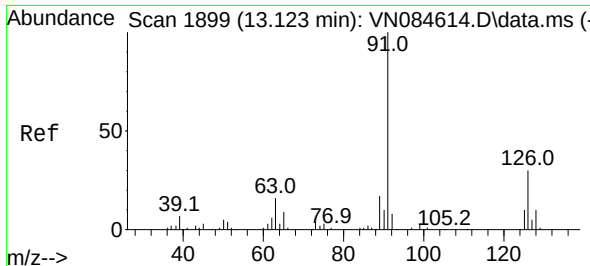
Tgt Ion:156 Resp: 4289
Ion Ratio Lower Upper
156 100
77 186.0 0.0 427.6
158 97.9 0.0 191.6



#74
n-propylbenzene
Concen: 1.342 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Tgt Ion: 91 Resp: 13104
Ion Ratio Lower Upper
91 100
120 22.9 0.0 44.0

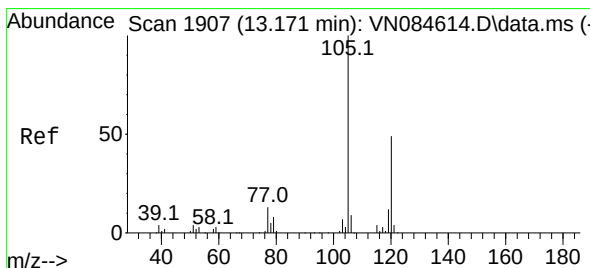
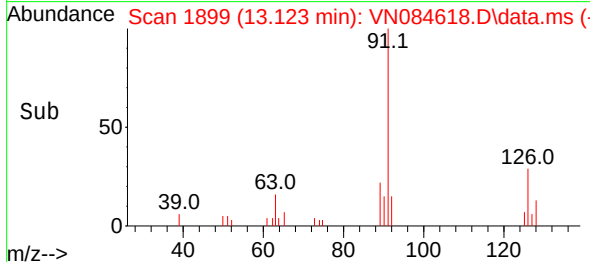
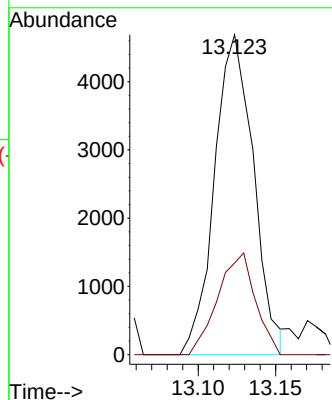
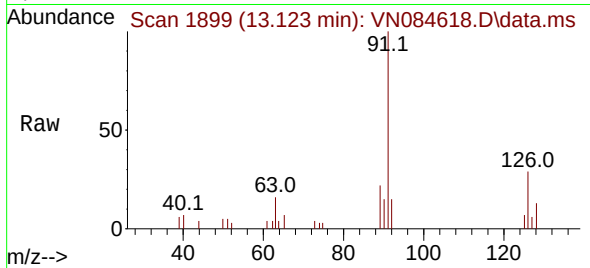




#75
2-Chlorotoluene
Concen: 1.290 ug/l
RT: 13.123 min Scan# 1899
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

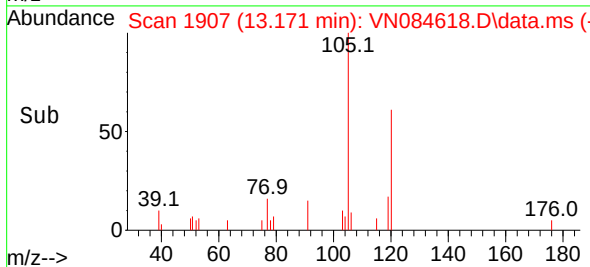
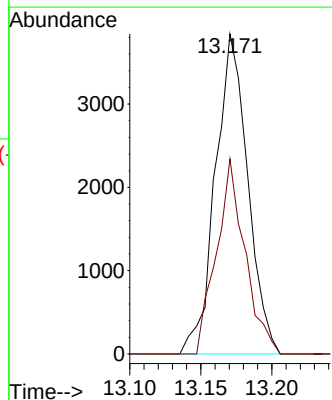
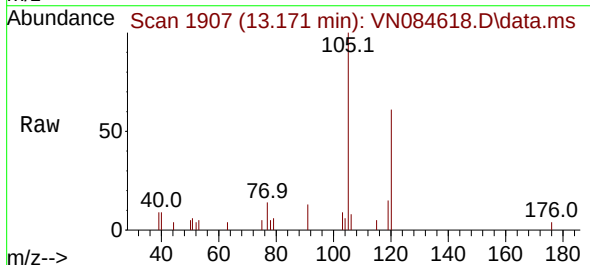
Instrument :
MSVOA_N
ClientSampleId :

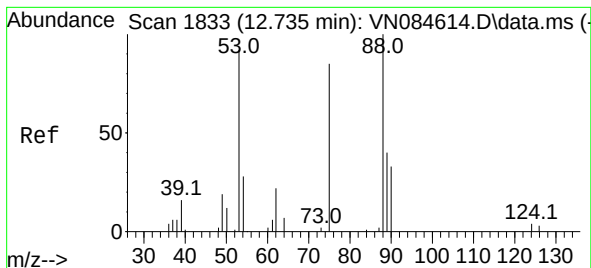
Tgt Ion: 91 Resp: 8203
Ion Ratio Lower Upper
91 100
126 30.7 0.0 60.8



#76
1,3,5-Trimethylbenzene
Concen: 0.853 ug/l
RT: 13.171 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Tgt Ion:105 Resp: 6086
Ion Ratio Lower Upper
105 100
120 53.7 0.0 96.8

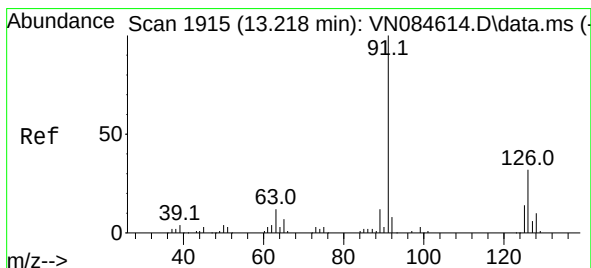
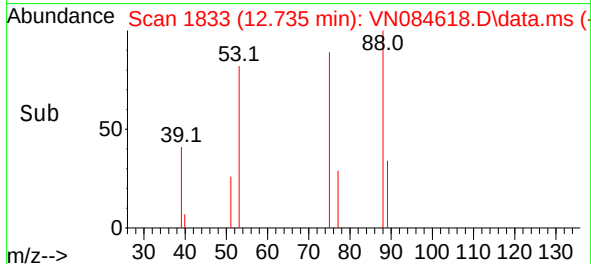
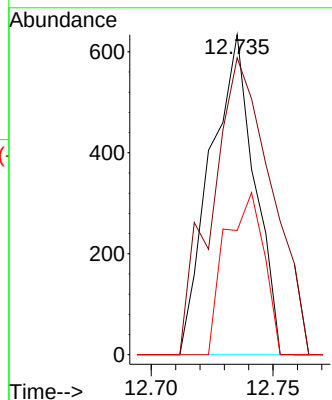
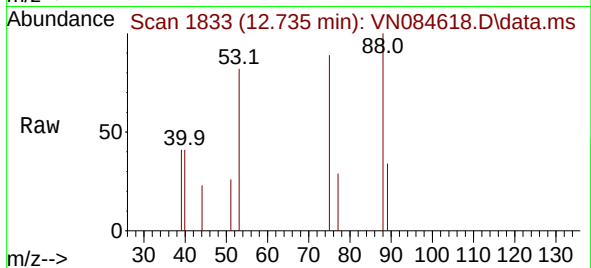




#77
t-1,4-Dichloro-2-butene
Concen: 0.844 ug/l
RT: 12.735 min Scan# 1833
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

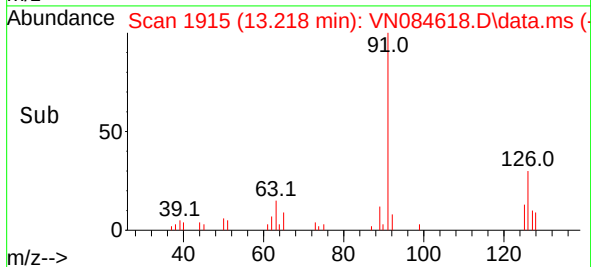
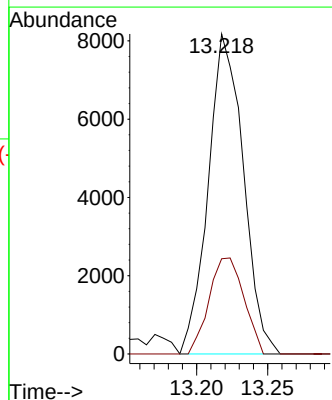
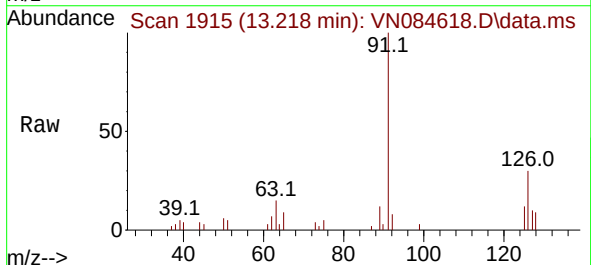
Instrument :
MSVOA_N
ClientSampleId :

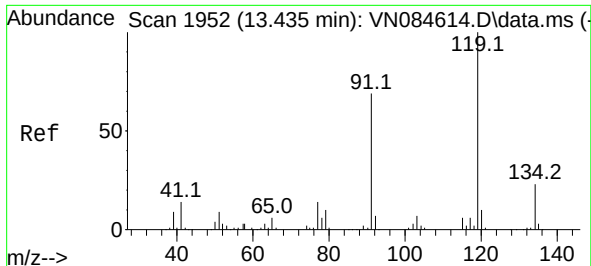
Tgt Ion: 75 Resp: 800
Ion Ratio Lower Upper
75 100
53 92.7 52.4 157.2
89 38.8 26.0 78.0



#78
4-Chlorotoluene
Concen: 2.184 ug/l
RT: 13.218 min Scan# 1915
Delta R.T. 0.000 min
Lab File: VN084618.D
Acq: 31 Oct 2024 14:08

Tgt Ion: 91 Resp: 14028
Ion Ratio Lower Upper
91 100
126 29.8 0.0 63.4





#79

tert-butylbenzene

Concen: 0.729 ug/l

RT: 13.435 min Scan# 1952

Delta R.T. 0.000 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

ClientSampleId :

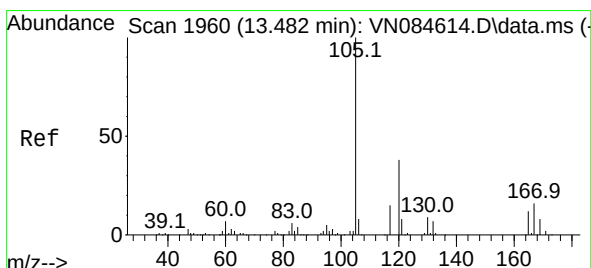
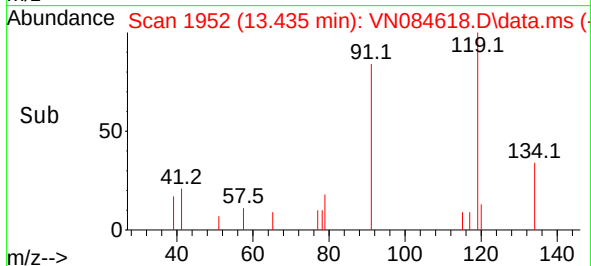
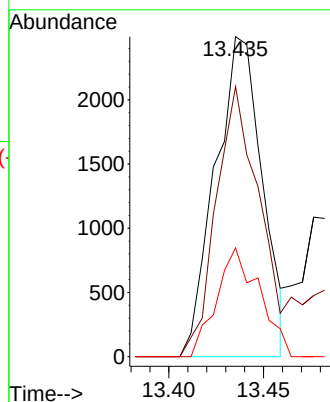
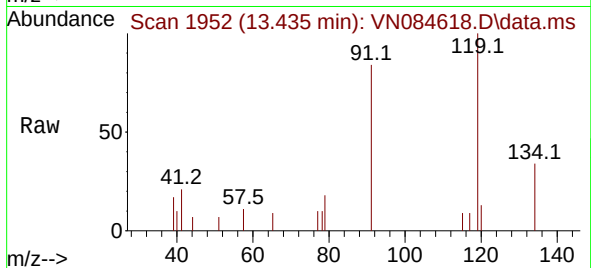
Tgt Ion:119 Resp: 4301

Ion Ratio Lower Upper

119 100

91 77.1 0.0 143.2

134 31.0 0.0 49.4



#80

1,2,4-Trimethylbenzene

Concen: 0.951 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. 0.000 min

Lab File: VN084618.D

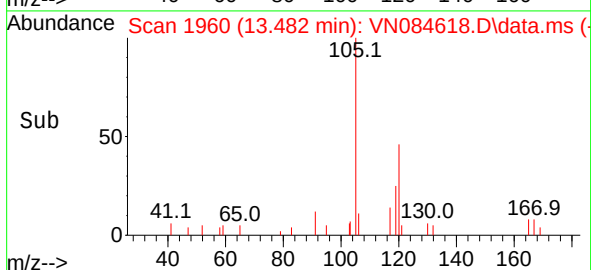
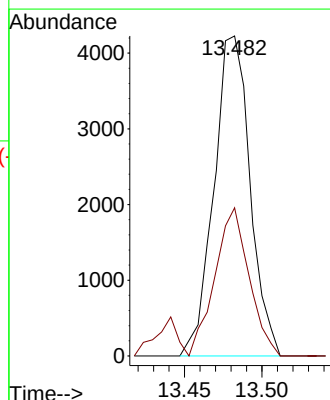
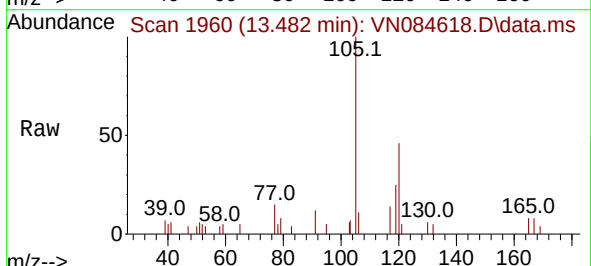
Acq: 31 Oct 2024 14:08

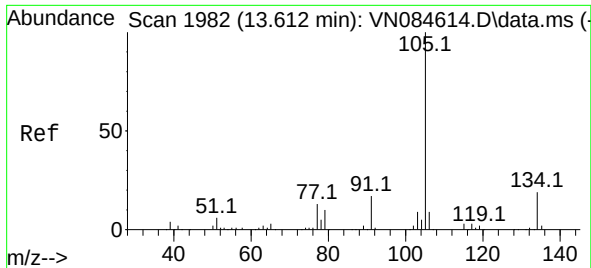
Tgt Ion:105 Resp: 6845

Ion Ratio Lower Upper

105 100

120 43.9 0.0 90.4

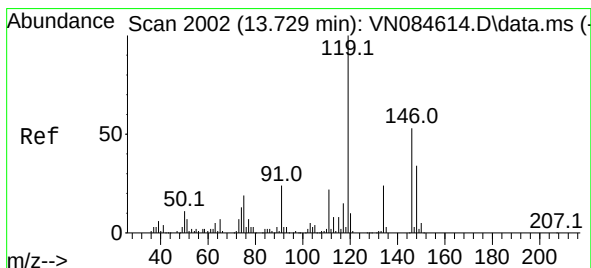
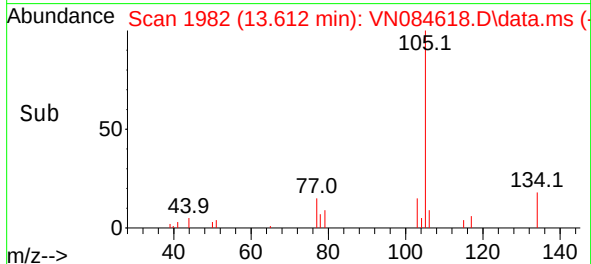
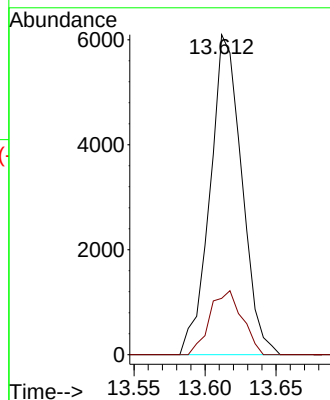
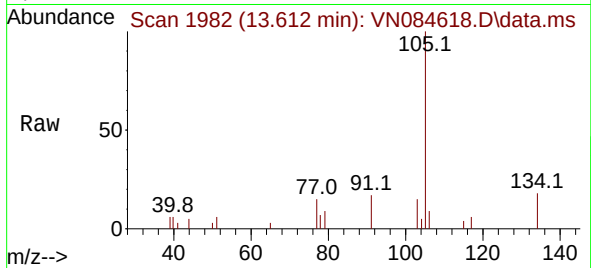




#81
 sec-Butylbenzene
 Concen: 1.165 ug/l
 RT: 13.612 min Scan# 1982
 Delta R.T. 0.000 min
 Lab File: VN084618.D
 Acq: 31 Oct 2024 14:08

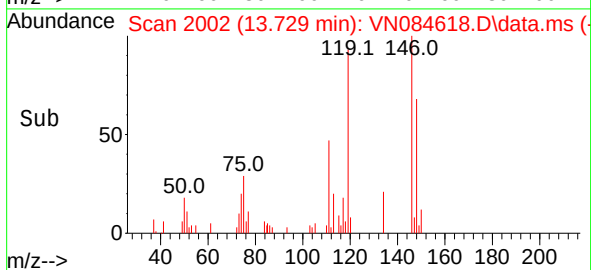
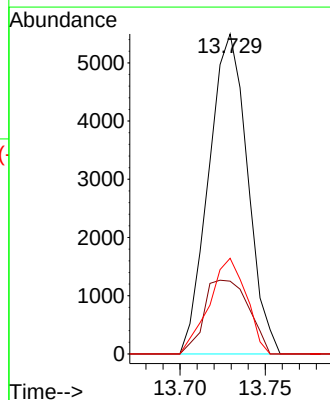
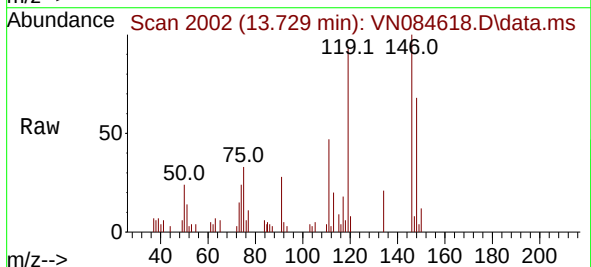
Instrument :
 MSVOA_N
 ClientSampleId :

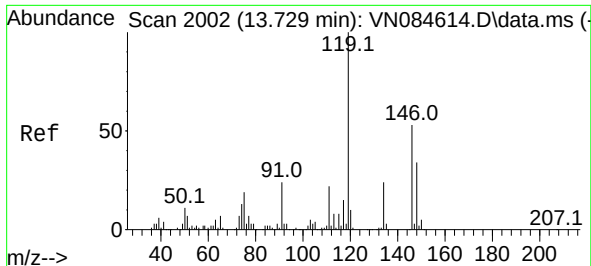
Tgt Ion:105 Resp: 9474
 Ion Ratio Lower Upper
 105 100
 134 20.4 0.0 39.0



#82
 p-Isopropyltoluene
 Concen: 1.273 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.000 min
 Lab File: VN084618.D
 Acq: 31 Oct 2024 14:08

Tgt Ion:119 Resp: 8698
 Ion Ratio Lower Upper
 119 100
 134 26.5 0.0 51.4
 91 28.7 0.0 50.4





#83

1,3-Dichlorobenzene

Concen: 2.686 ug/l

RT: 13.735 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

ClientSampleId :

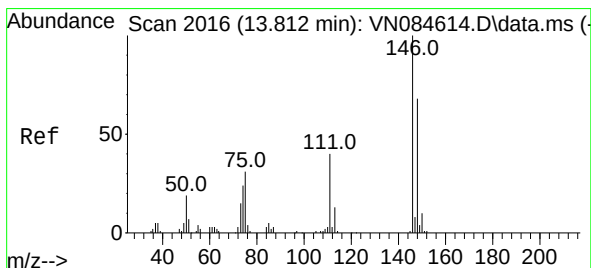
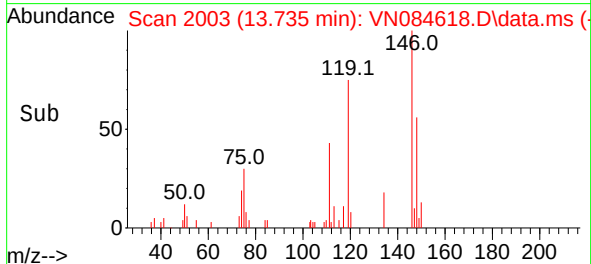
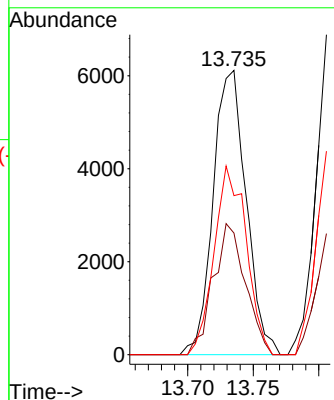
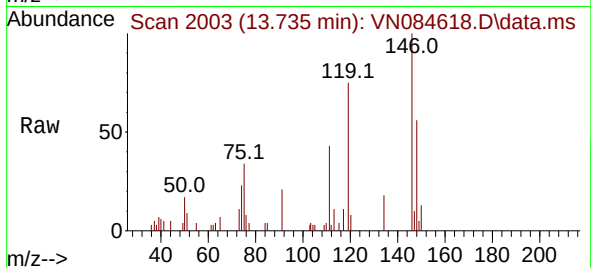
Tgt Ion:146 Resp: 10696

Ion Ratio Lower Upper

146 100

111 45.1 21.0 63.0

148 64.7 31.3 93.8



#84

1,4-Dichlorobenzene

Concen: 3.325 ug/l

RT: 13.812 min Scan# 2016

Delta R.T. 0.000 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

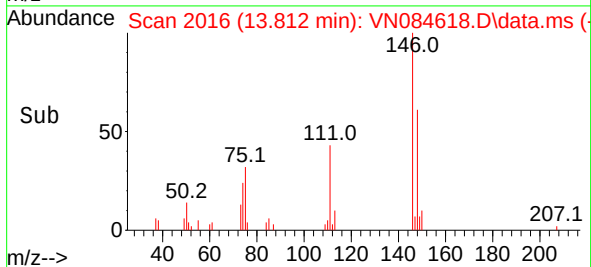
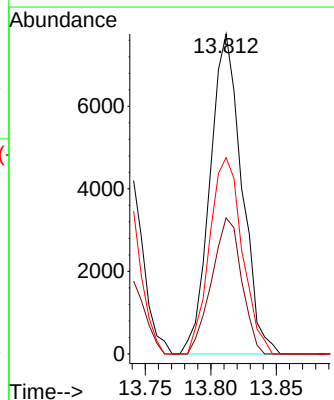
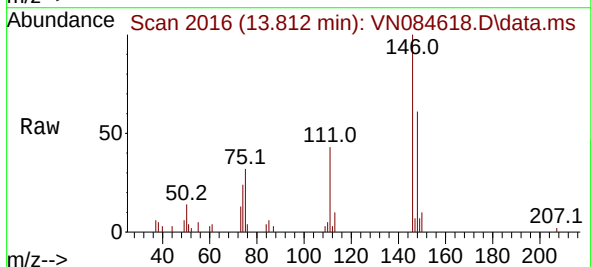
Tgt Ion:146 Resp: 13085

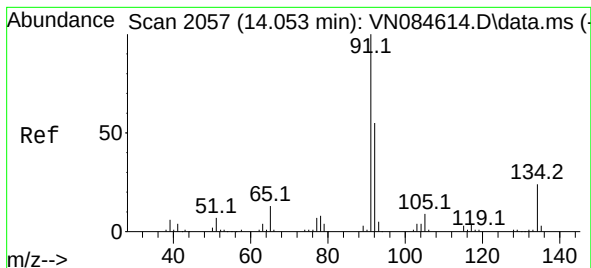
Ion Ratio Lower Upper

146 100

111 40.0 20.2 60.5

148 63.0 32.6 98.0





#85

n-Butylbenzene

Concen: 2.546 ug/l

RT: 14.059 min Scan# 2057

Delta R.T. 0.006 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

ClientSampleId :

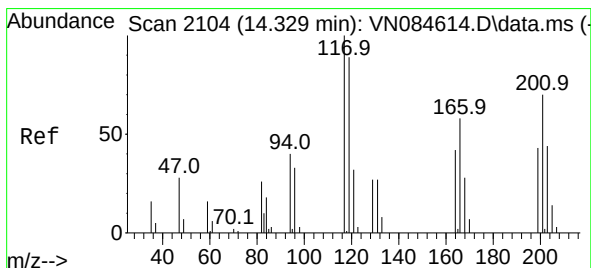
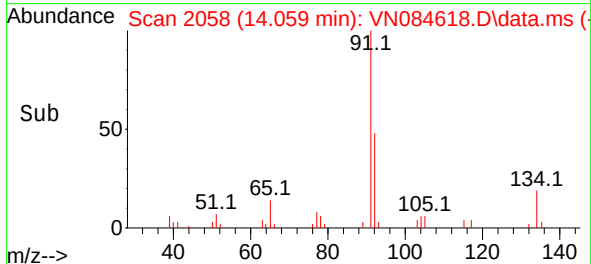
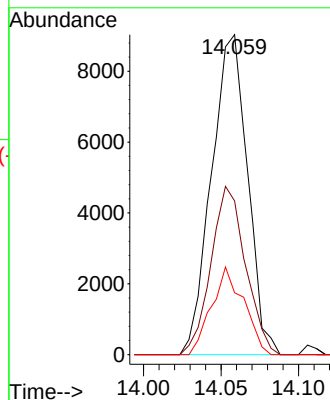
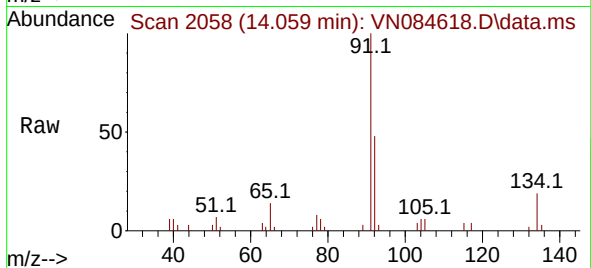
Tgt Ion: 91 Resp: 14609

Ion Ratio Lower Upper

91 100

92 50.5 0.0 106.2

134 24.5 0.0 48.2



#86

Hexachloroethane

Concen: 0.414 ug/l

RT: 14.323 min Scan# 2103

Delta R.T. -0.006 min

Lab File: VN084618.D

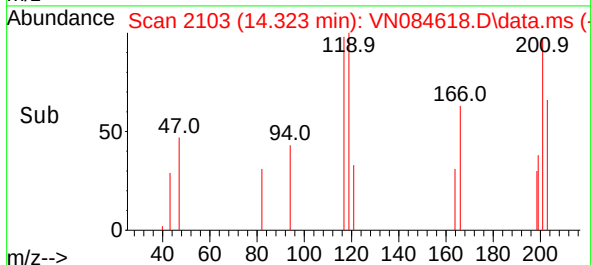
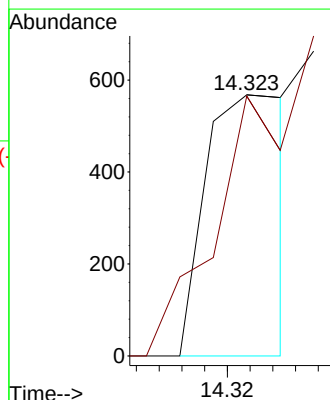
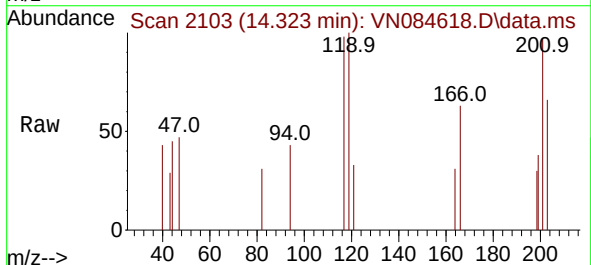
Acq: 31 Oct 2024 14:08

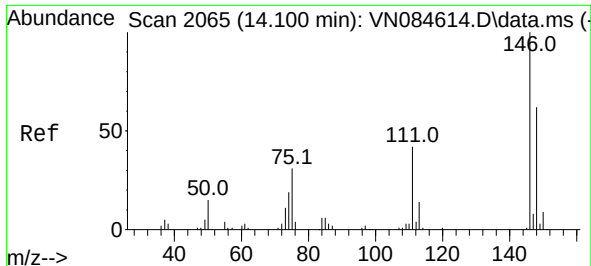
Tgt Ion: 117 Resp: 578

Ion Ratio Lower Upper

117 100

201 0.0 34.4 103.3#





#87

1,2-Dichlorobenzene

Concen: 1.800 ug/l

RT: 14.106 min Scan# 2066

Delta R.T. 0.006 min

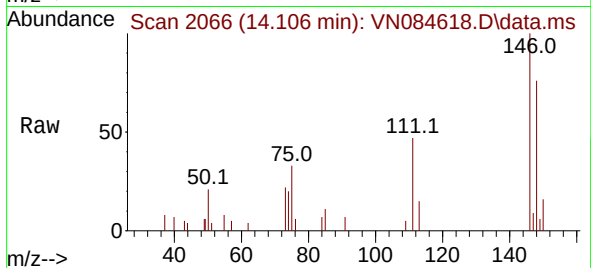
Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

ClientSampleId :



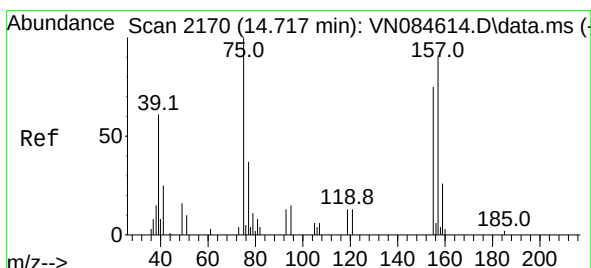
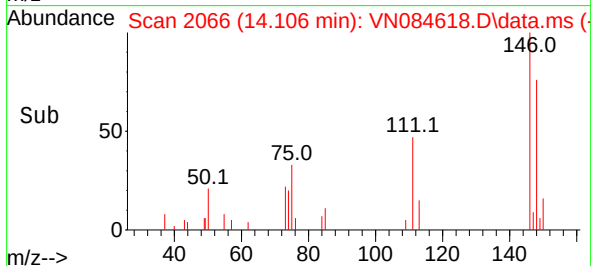
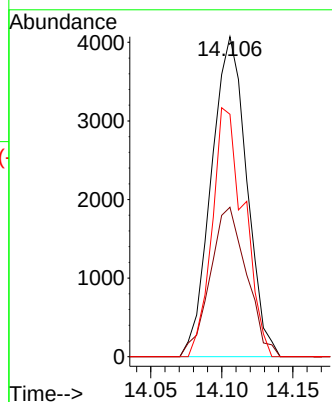
Tgt Ion:146 Resp: 7065

Ion Ratio Lower Upper

146 100

111 48.2 22.4 67.0

148 70.3 32.6 98.0



#88

1,2-Dibromo-3-Chloropropane

Concen: 1.672 ug/l

RT: 14.723 min Scan# 2171

Delta R.T. 0.006 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

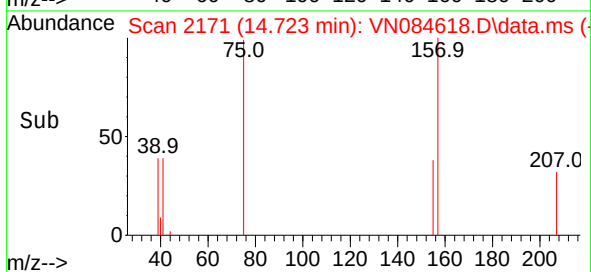
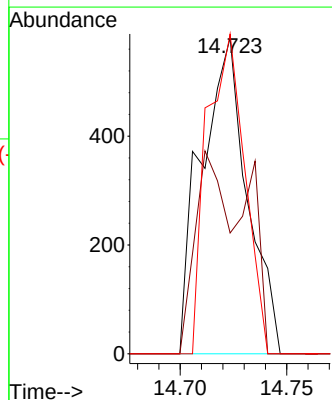
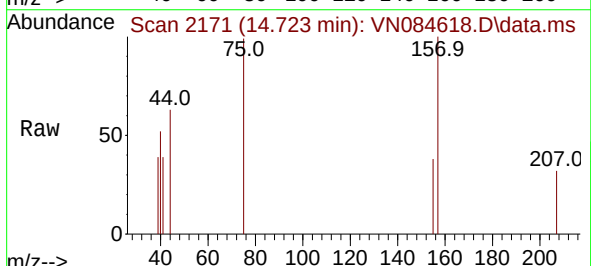
Tgt Ion: 75 Resp: 873

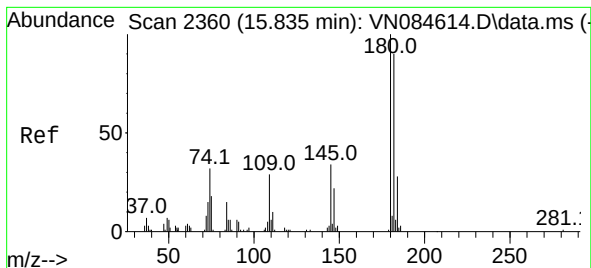
Ion Ratio Lower Upper

75 100

155 24.5 61.8 92.6#

157 83.3 74.7 112.1





#89

1,2,4-Trichlorobenzene

Concen: 4.734 ug/l

RT: 15.841 min Scan# 2360

Delta R.T. 0.006 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

ClientSampleId :

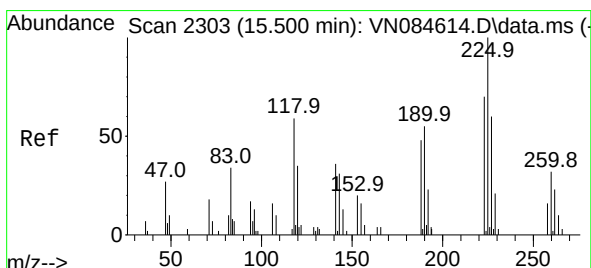
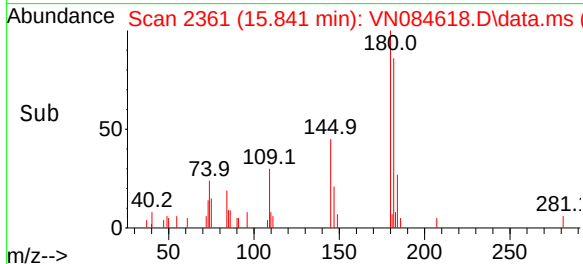
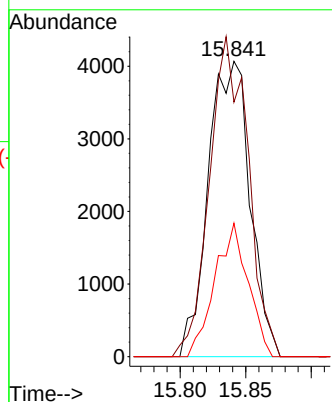
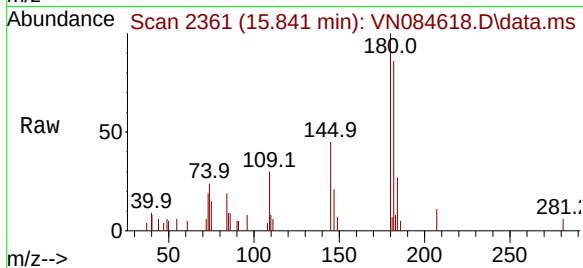
Tgt Ion:180 Resp: 9046

Ion Ratio Lower Upper

180 100

182 99.6 73.0 109.6

145 35.8 26.5 39.7



#90

Hexachlorobutadiene

Concen: 4.882 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

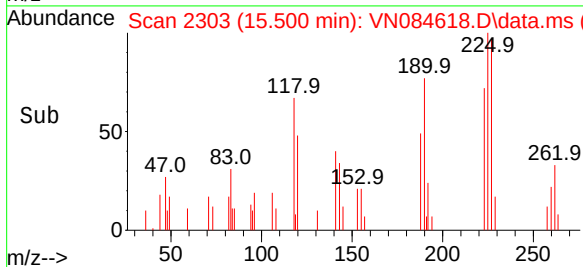
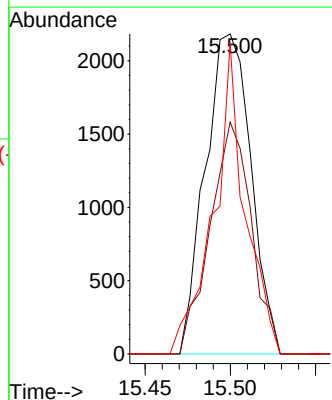
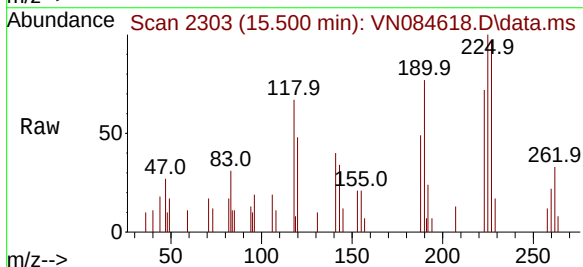
Tgt Ion:225 Resp: 4075

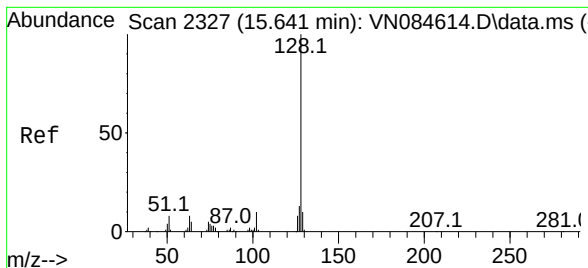
Ion Ratio Lower Upper

225 100

223 65.3 0.0 138.8

227 67.0 0.0 123.2





#91

Naphthalene

Concen: 3.745 ug/l

RT: 15.635 min Scan# 2326

Delta R.T. -0.006 min MSVOA_N

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Instrument :

MSVOA_N

ClientSampleId :

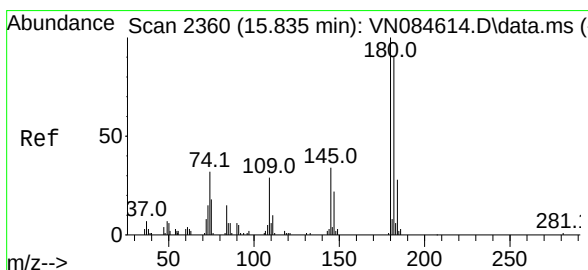
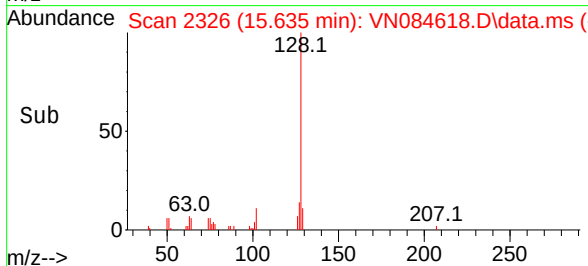
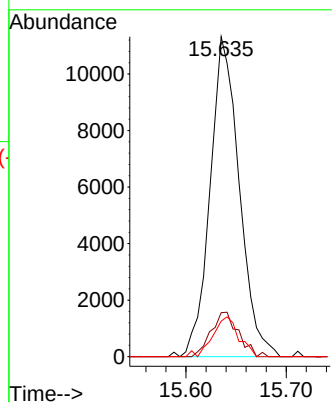
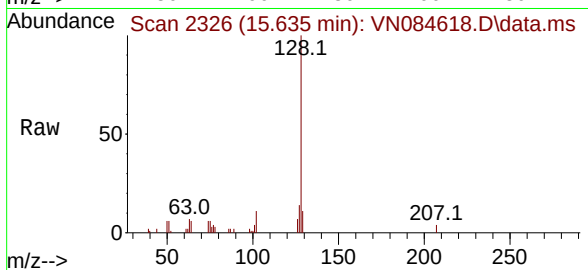
Tgt Ion:128 Resp: 22853

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

129 10.8 8.6 12.8



#92

1,2,3-Trichlorobenzene

Concen: 4.734 ug/l

RT: 15.841 min Scan# 2361

Delta R.T. 0.006 min

Lab File: VN084618.D

Acq: 31 Oct 2024 14:08

Tgt Ion:180 Resp: 9046

Ion Ratio Lower Upper

180 100

182 99.6 0.0 182.6

145 35.8 0.0 66.2

