

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122324\
 Data File : VN085292.D
 Acq On : 23 Dec 2024 14:26
 Operator : JC\MD
 Sample : PB165799TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 24 04:09:44 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N121824W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 19 06:31:00 2024
 Response via : Initial Calibration

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

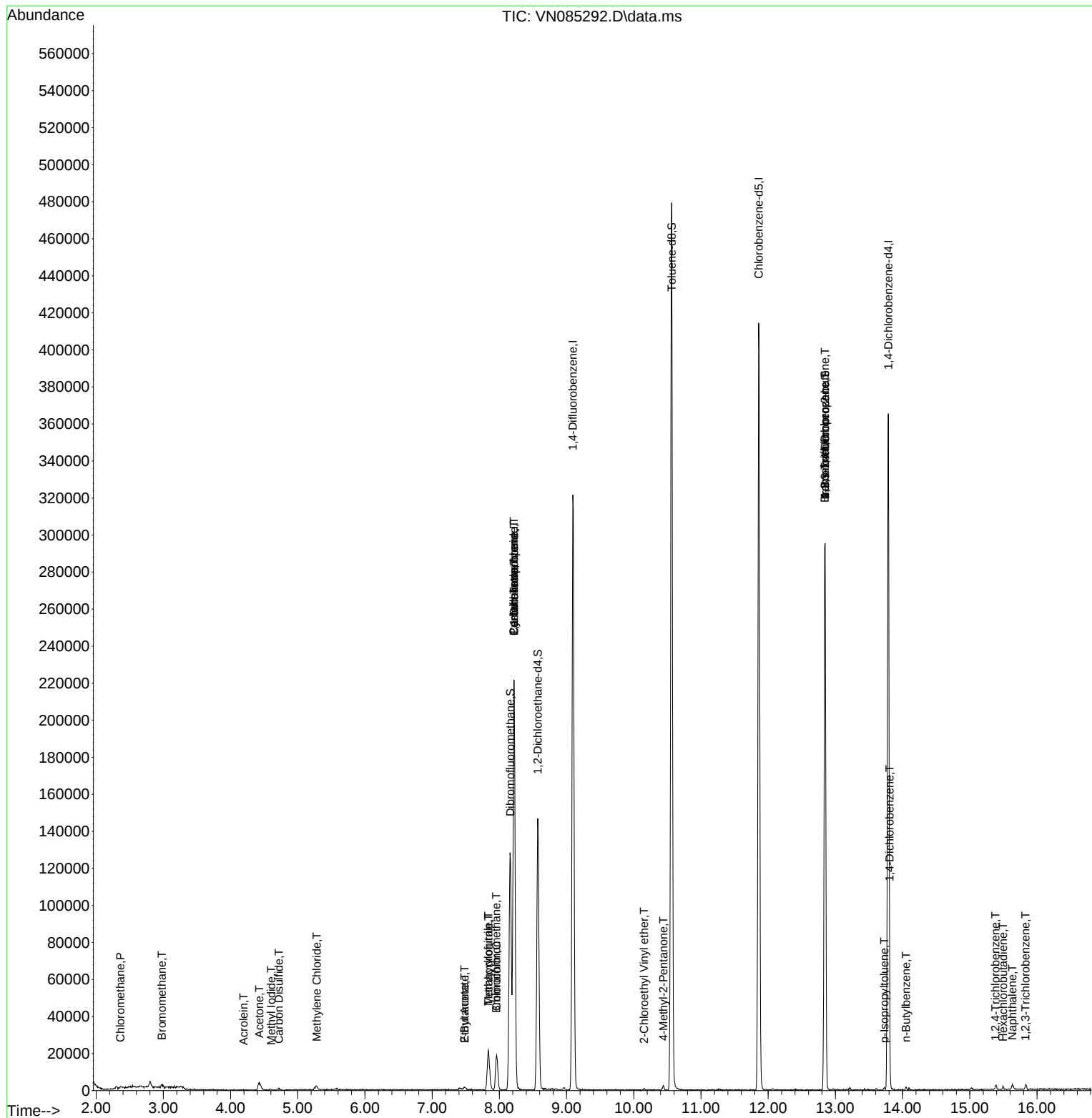
Internal Standards						
1) Pentafluorobenzene	8.218	168	149539	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	266221	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.859	117	227841	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	93103	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	121211	46.375	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	92.760%
35) Dibromofluoromethane	8.165	113	91202	48.728	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.460%
50) Toluene-d8	10.565	98	325797	47.625	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	95.240%
62) 4-Bromofluorobenzene	12.847	95	101787	41.658	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	83.320%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	518	0.228	ug/l #	42
5) Bromomethane	2.977	94	768	0.550	ug/l	85
6) Chloroethane	3.101	64	61	Below Cal	#	42
10) Methyl Iodide	4.606	142	774	0.368	ug/l #	33
13) Acrolein	4.195	56	89	0.213	ug/l #	13
16) Acetone	4.430	43	8252	9.147	ug/l #	88
17) Carbon Disulfide	4.718	76	1712	0.294	ug/l #	76
20) Methylene Chloride	5.283	84	1444	0.732	ug/l #	61
25) 2-Butanone	7.483	43	2809	2.033	ug/l #	51
28) Bromochloromethane	7.953	49	1526	0.828	ug/l #	18
29) Tetrahydrofuran	7.836	42	15383	17.272	ug/l	97
30) Chloroform	7.959	83	18414	4.721	ug/l	94
31) Cyclohexane	8.218	56	4470	1.322	ug/l #	31
36) 1,1-Dichloropropene	8.218	75	14012	5.376	ug/l #	51
37) Ethyl Acetate	7.483	43	2809	0.934	ug/l #	71
38) Carbon Tetrachloride	8.218	117	16968	5.385	ug/l #	16
41) Methacrylonitrile	7.836	41	9655	6.301	ug/l #	48
51) 4-Methyl-2-Pentanone	10.441	43	1824	0.631	ug/l	89
58) 2-Chloroethyl Vinyl ether	10.153	63	334	15.680	ug/l #	48
71) Bromoform	12.841	173	977	0.698	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	57098	25.728	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	57098	68.317	ug/l #	7
86) p-Isopropyltoluene	13.729	119	489	2.020	ug/l #	61
88) 1,4-Dichlorobenzene	13.806	146	923	0.275	ug/l #	1
89) n-Butylbenzene	14.053	91	1028	0.211	ug/l	87
93) 1,2,4-Trichlorobenzene	15.382	180	1018	0.658	ug/l #	90
94) Hexachlorobutadiene	15.494	225	483	0.601	ug/l	91
95) Naphthalene	15.635	128	3671	0.717	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.829	180	1251	0.810	ug/l	92

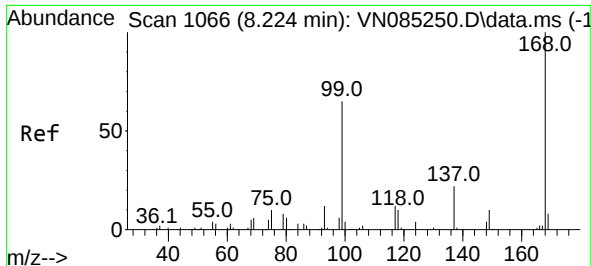
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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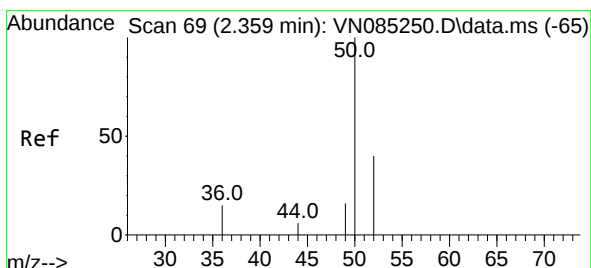
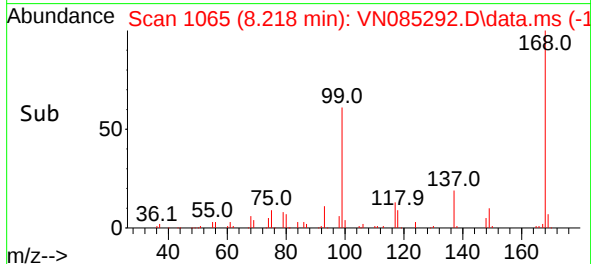
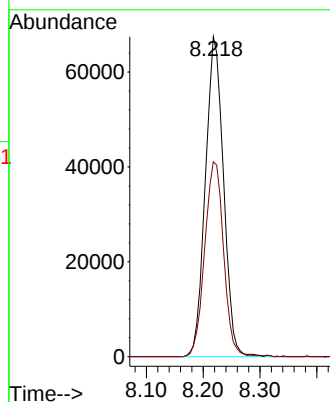
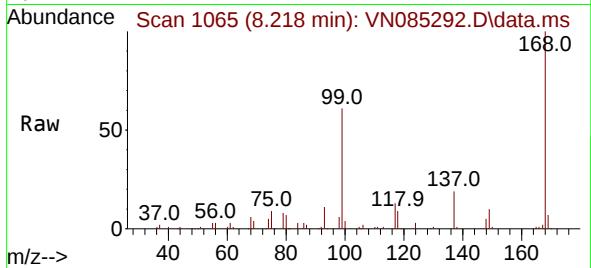




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

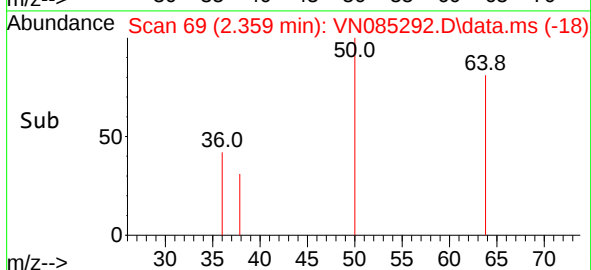
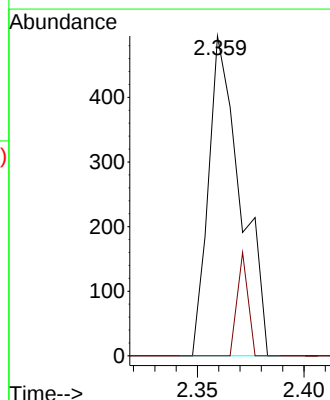
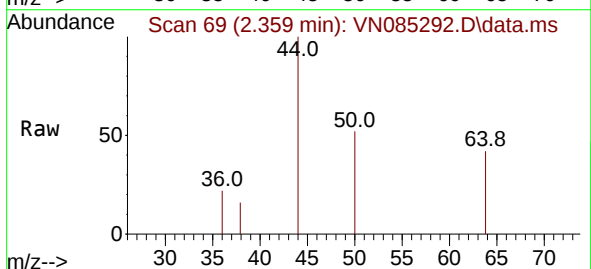
Instrument :
MSVOA_N
ClientSampleId :

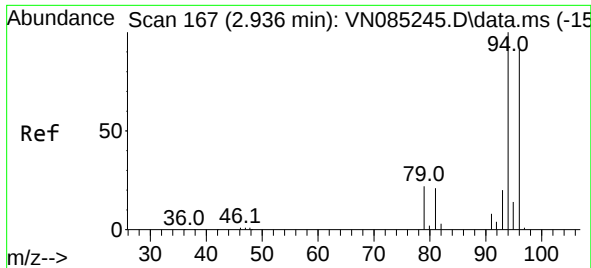
Tgt Ion:168 Resp: 149539
Ion Ratio Lower Upper
168 100
99 60.9 50.7 76.1



#3
Chloromethane
Concen: 0.228 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

Tgt Ion: 50 Resp: 518
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.2#

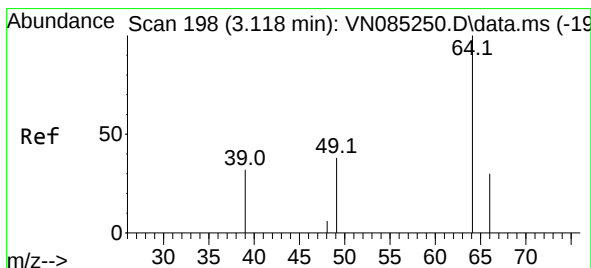
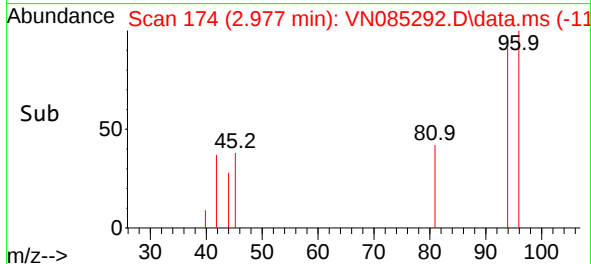
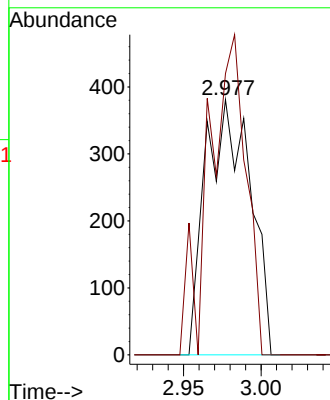
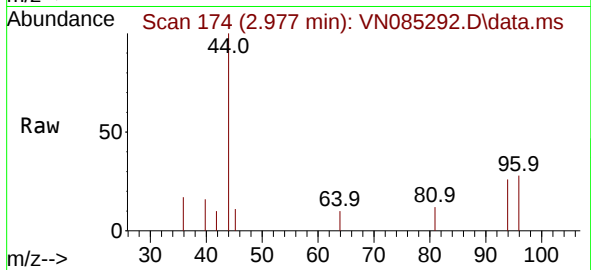




#5
Bromomethane
Concen: 0.550 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.029 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

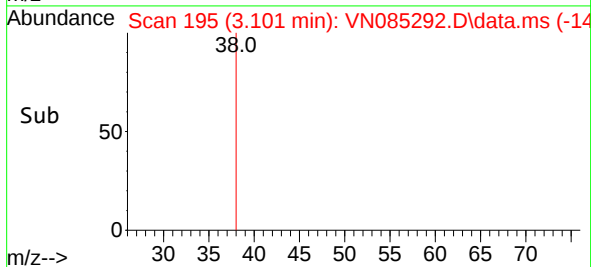
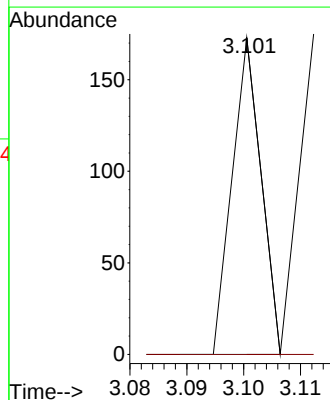
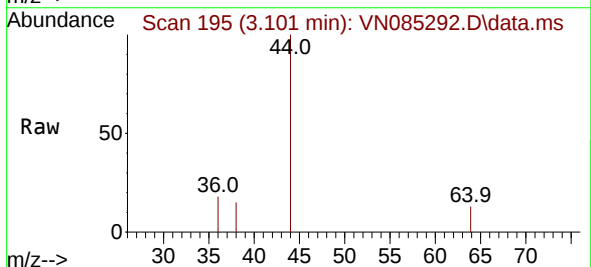
Instrument :
MSVOA_N
ClientSampleId :

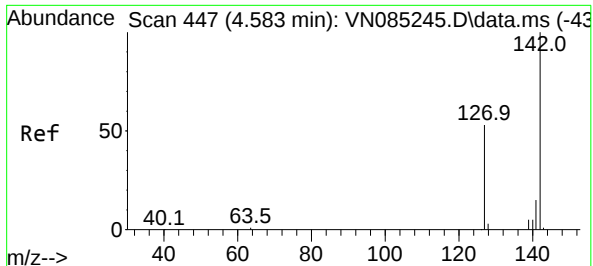
Tgt Ion: 94 Resp: 768
Ion Ratio Lower Upper
94 100
96 110.2 76.8 115.2



#6
Chloroethane
Concen: Below Cal
RT: 3.101 min Scan# 195
Delta R.T. -0.011 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

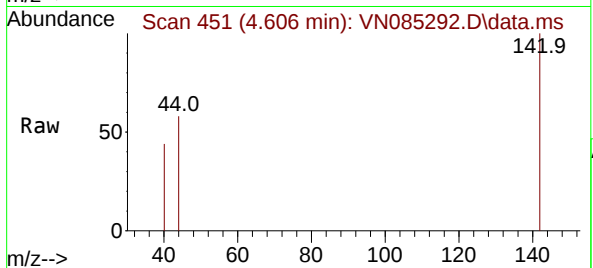
Tgt Ion: 64 Resp: 61
Ion Ratio Lower Upper
64 100
66 0.0 26.3 39.5#



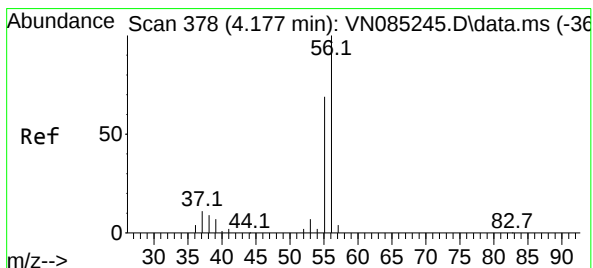
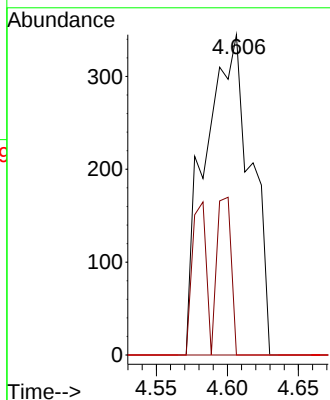
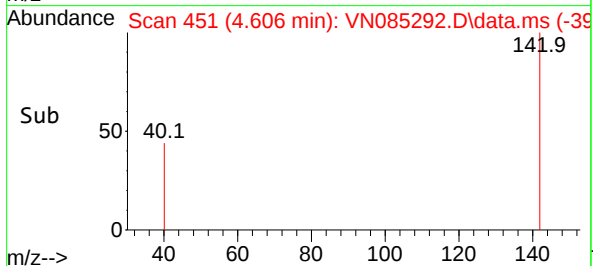


#10
Methyl Iodide
Concen: 0.368 ug/l
RT: 4.606 min Scan# 411
Delta R.T. 0.017 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

Instrument :
MSVOA_N
ClientSampleId :

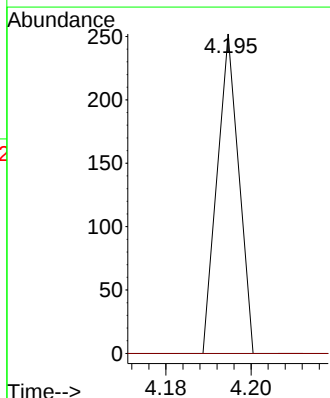
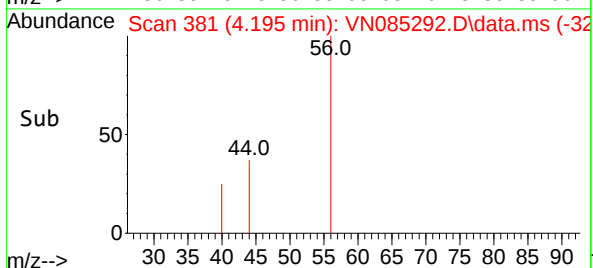
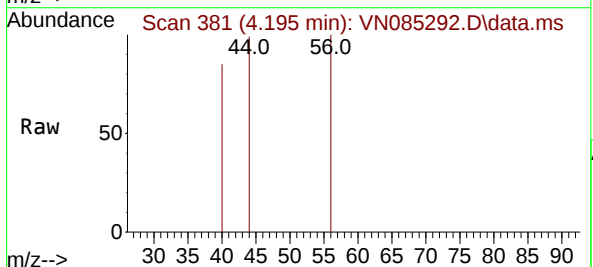


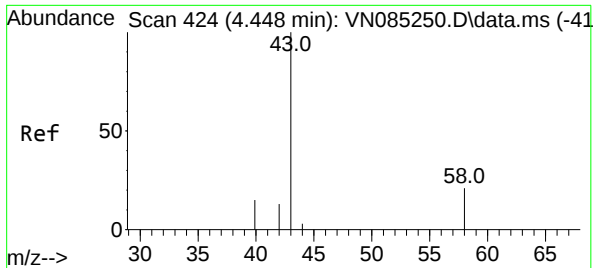
Tgt Ion:142 Resp: 774
Ion Ratio Lower Upper
142 100
127 0.0 42.5 63.7#
141 0.0 10.2 15.4#



#13
Acrolein
Concen: 0.213 ug/l
RT: 4.195 min Scan# 381
Delta R.T. 0.018 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

Tgt Ion: 56 Resp: 89
Ion Ratio Lower Upper
56 100
55 0.0 59.0 88.6#





#16

Acetone

Concen: 9.147 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN085292.D

Acq: 23 Dec 2024 14:26

Instrument :

MSVOA_N

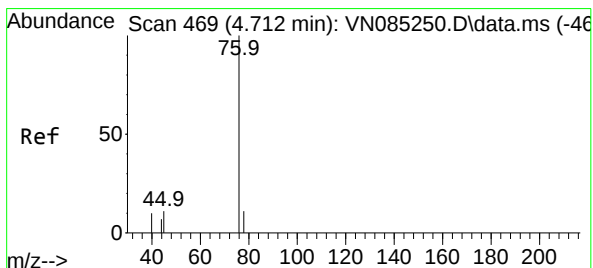
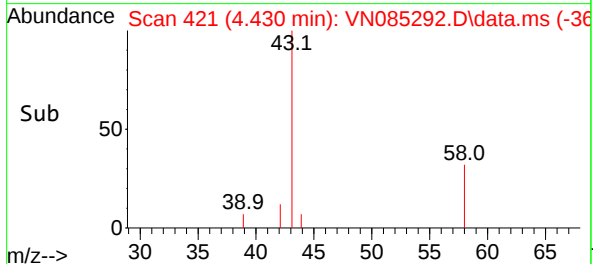
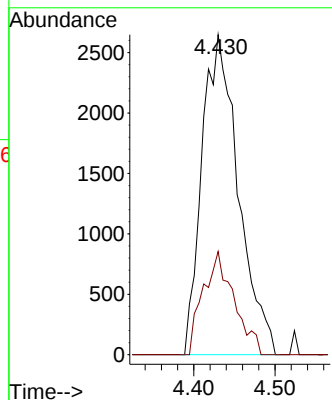
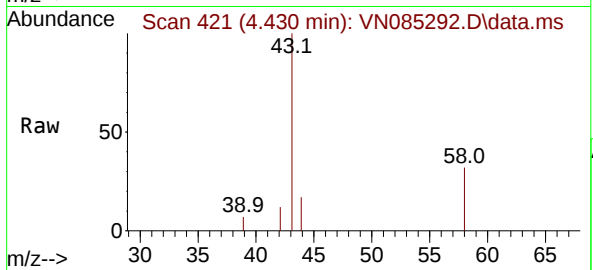
ClientSampleId :

Tgt Ion: 43 Resp: 8252

Ion Ratio Lower Upper

43 100

58 32.3 20.8 31.2#



#17

Carbon Disulfide

Concen: 0.294 ug/l

RT: 4.718 min Scan# 470

Delta R.T. 0.006 min

Lab File: VN085292.D

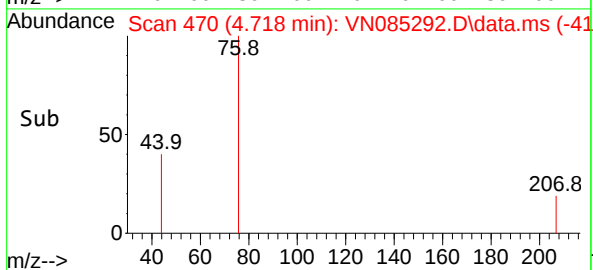
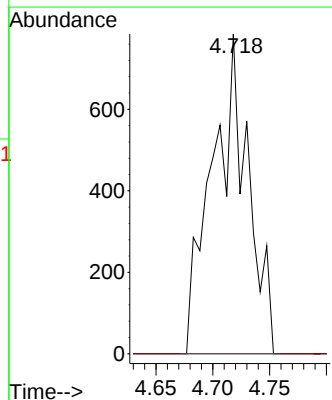
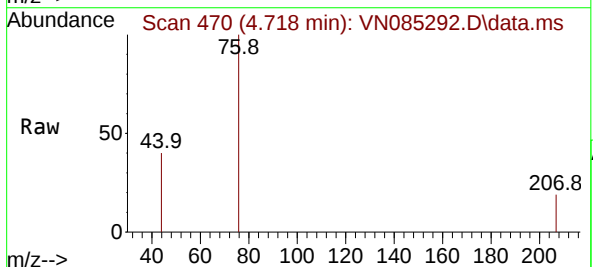
Acq: 23 Dec 2024 14:26

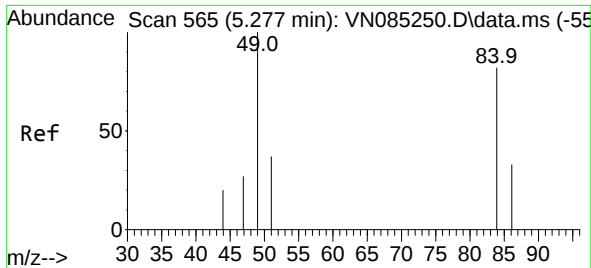
Tgt Ion: 76 Resp: 1712

Ion Ratio Lower Upper

76 100

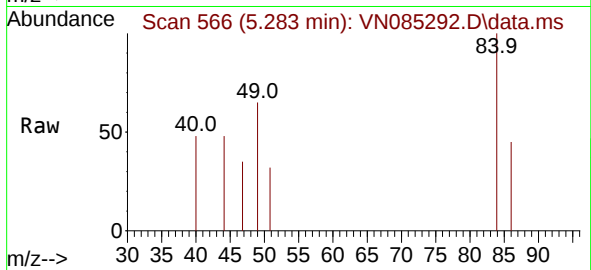
78 0.0 6.8 10.2#





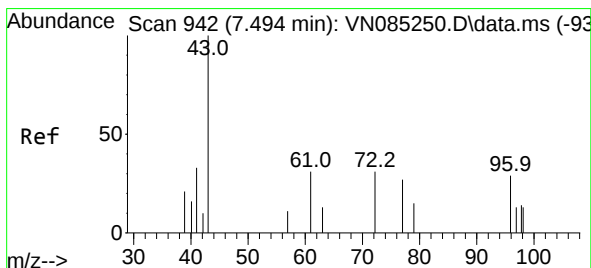
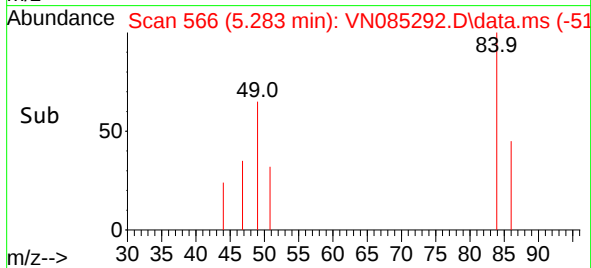
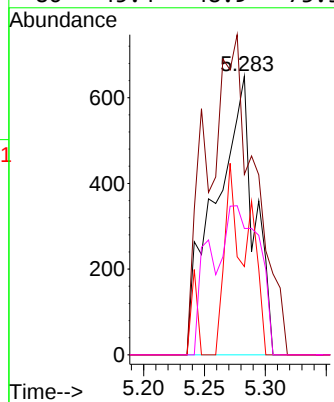
#20
Methylene Chloride
Concen: 0.732 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 1444

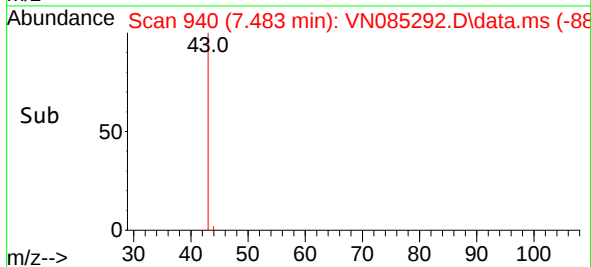
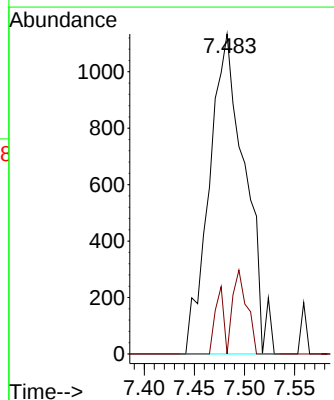
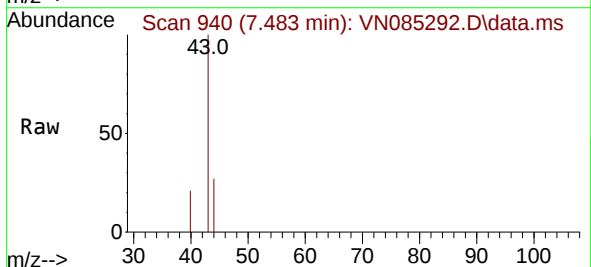
Ion	Ratio	Lower	Upper
84	100		
49	64.8	103.6	155.4#
51	31.7	34.2	51.2#
86	45.4	48.9	73.3#

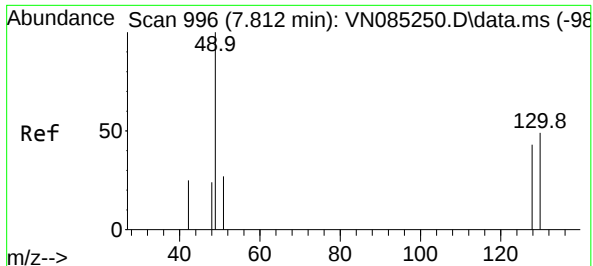


#25
2-Butanone
Concen: 2.033 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

Tgt Ion: 43 Resp: 2809

Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.6	29.4#





#28

Bromochloromethane

Concen: 0.828 ug/l

RT: 7.953 min Scan# 1000

Delta R.T. 0.141 min

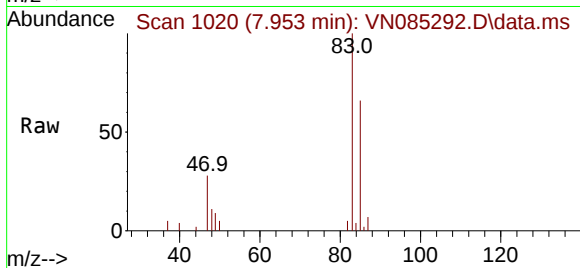
Lab File: VN085292.D

Acq: 23 Dec 2024 14:26

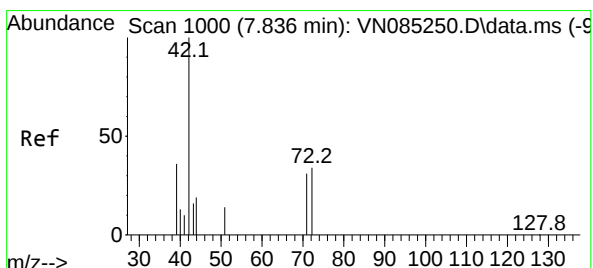
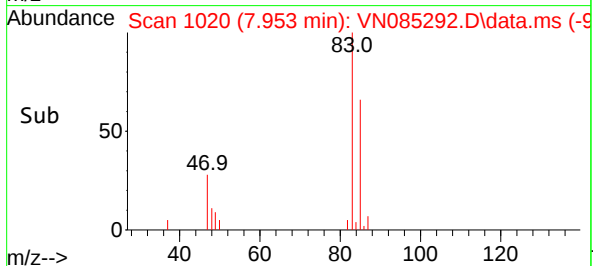
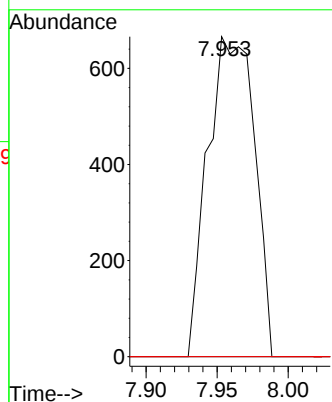
Instrument :

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Tgt Ion: 49	Resp: 1526
Ion Ratio	Lower Upper
49	100
129	0.0 0.0 3.4
130	0.0 54.1 81.1#



#29

Tetrahydrofuran

Concen: 17.272 ug/l

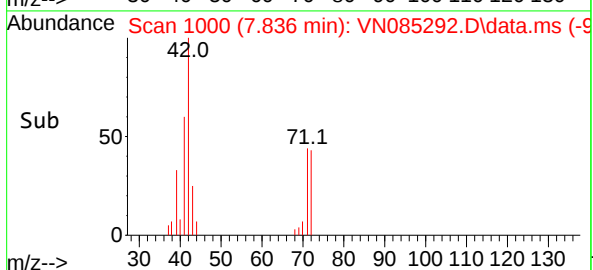
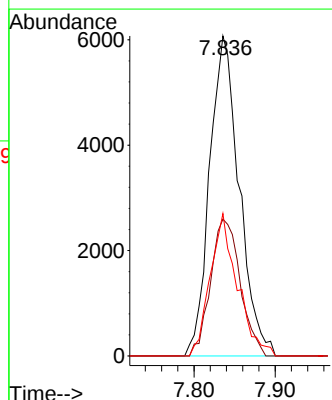
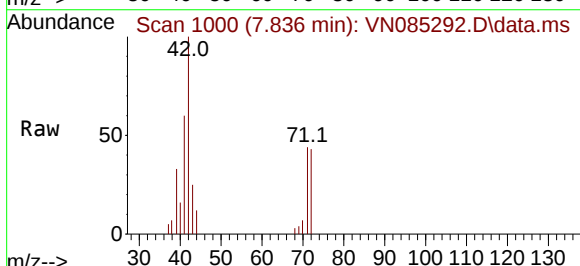
RT: 7.836 min Scan# 1000

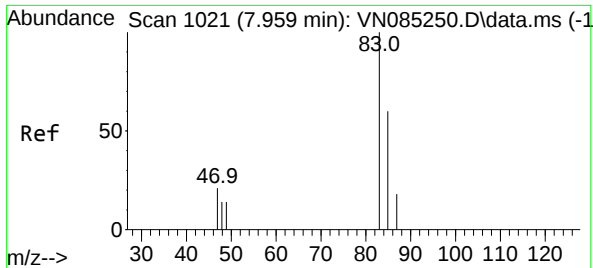
Delta R.T. -0.000 min

Lab File: VN085292.D

Acq: 23 Dec 2024 14:26

Tgt Ion: 42	Resp: 15383
Ion Ratio	Lower Upper
42	100
72	42.7 32.7 49.1
71	40.9 31.4 47.2





#30

Chloroform

Concen: 4.721 ug/l

RT: 7.959 min Scan# 1065

Delta R.T. -0.006 min

Lab File: VN085292.D

Acq: 23 Dec 2024 14:26

Instrument :

MSVOA_N

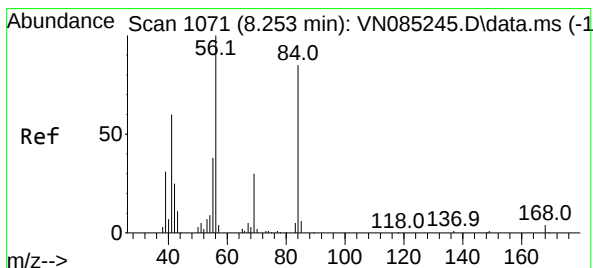
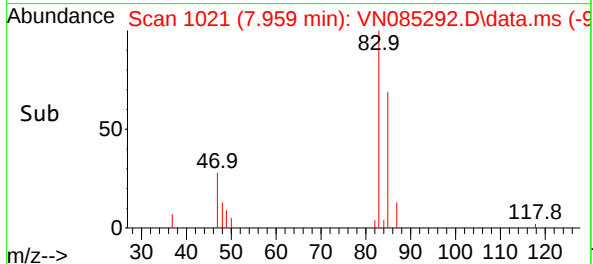
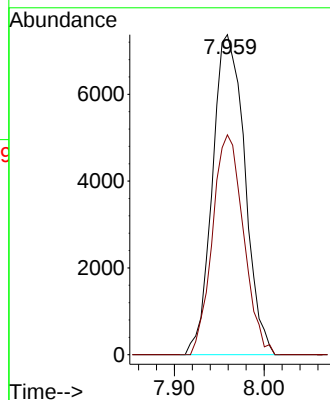
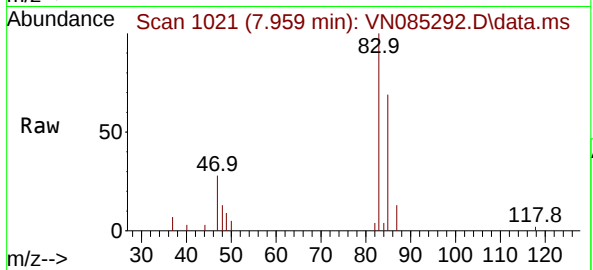
ClientSampleId :

Tgt Ion: 83 Resp: 18414

Ion Ratio Lower Upper

83 100

85 68.7 51.4 77.0



#31

Cyclohexane

Concen: 1.322 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN085292.D

Acq: 23 Dec 2024 14:26

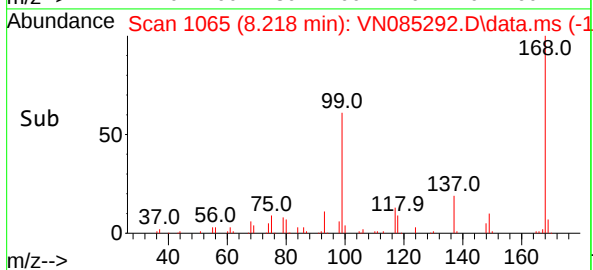
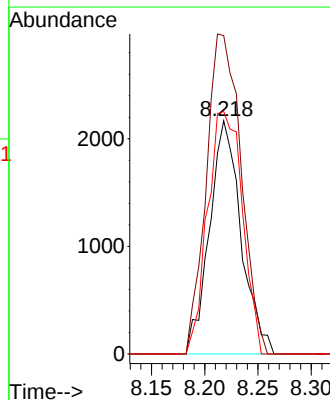
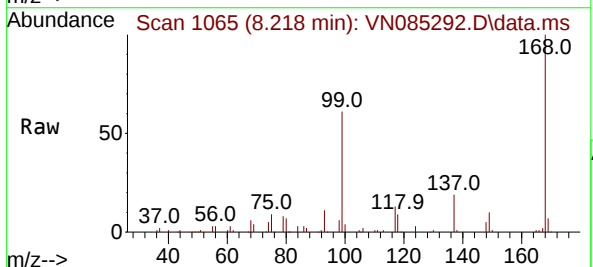
Tgt Ion: 56 Resp: 4470

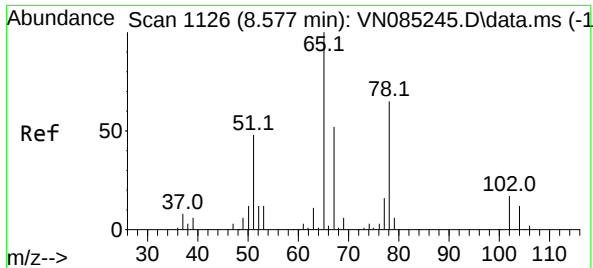
Ion Ratio Lower Upper

56 100

69 136.5 23.6 35.4#

84 104.0 66.6 99.8#





#33

1,2-Dichloroethane-d4

Concen: 46.375 ug/l

RT: 8.571 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN085292.D

Acq: 23 Dec 2024 14:26

Instrument :

MSVOA_N

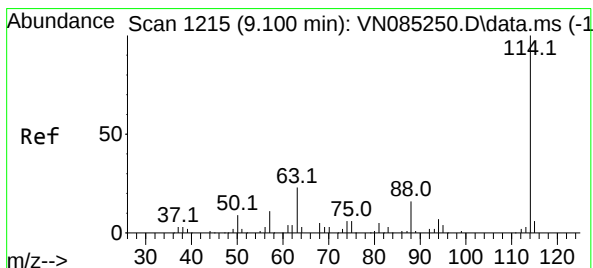
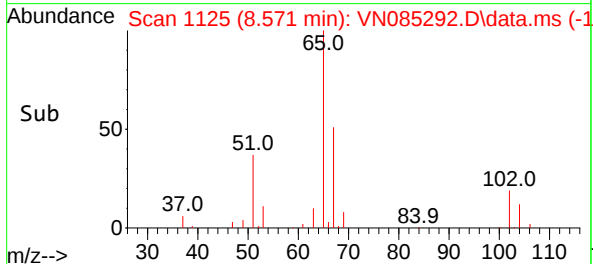
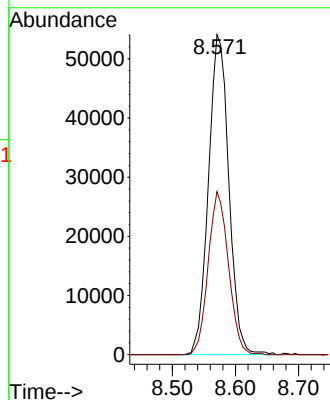
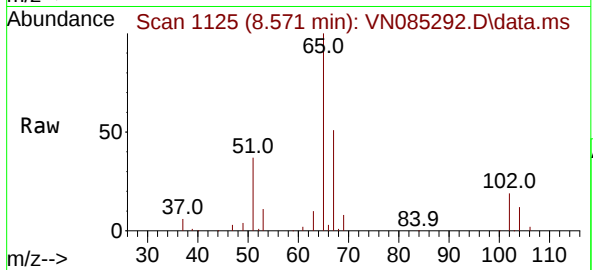
ClientSampleId :

Tgt Ion: 65 Resp: 121211

Ion Ratio Lower Upper

65 100

67 50.8 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 1214

Delta R.T. -0.006 min

Lab File: VN085292.D

Acq: 23 Dec 2024 14:26

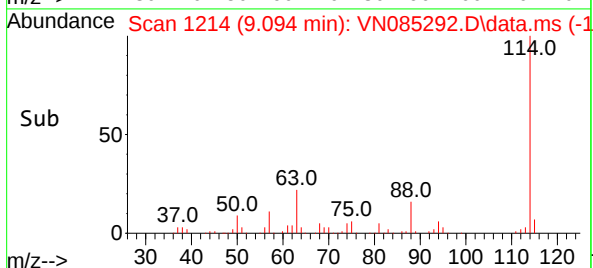
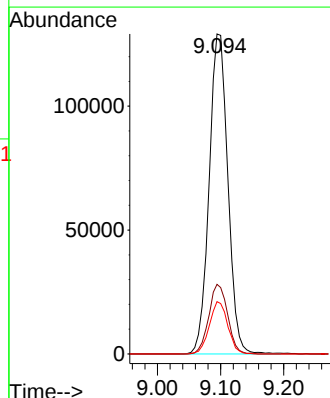
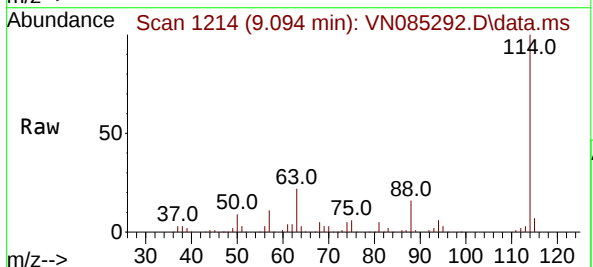
Tgt Ion: 114 Resp: 266221

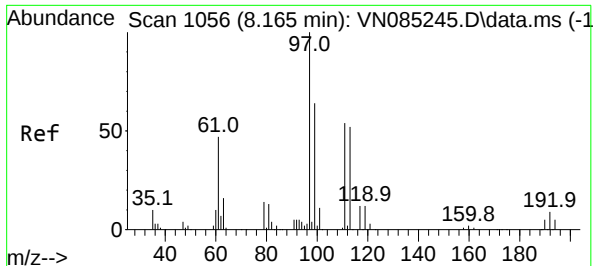
Ion Ratio Lower Upper

114 100

63 21.7 0.0 46.2

88 16.4 0.0 32.6





#35

Dibromofluoromethane

Concen: 48.728 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN085292.D

Acq: 23 Dec 2024 14:26

Instrument :

MSVOA_N

ClientSampleId :

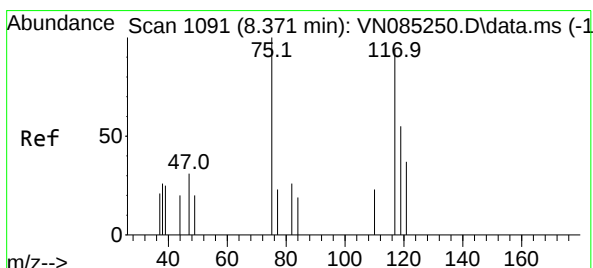
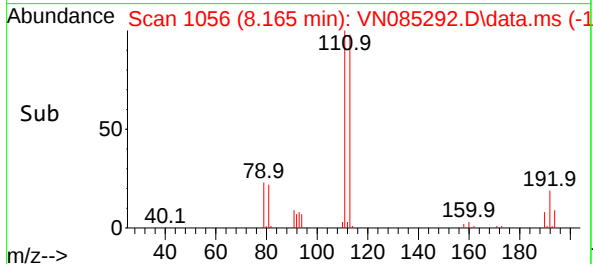
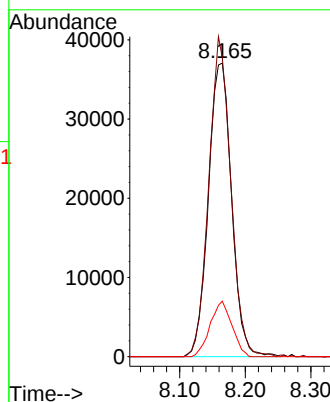
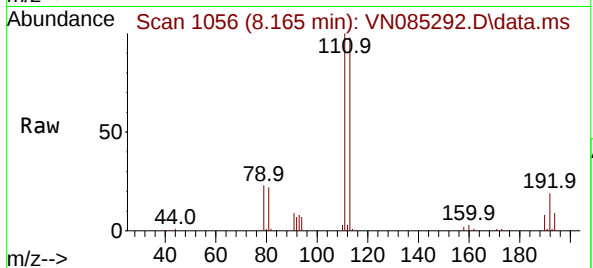
Tgt Ion:113 Resp: 91202

Ion Ratio Lower Upper

113 100

111 102.9 82.1 123.1

192 17.7 13.4 20.0



#36

1,1-Dichloropropene

Concen: 5.376 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085292.D

Acq: 23 Dec 2024 14:26

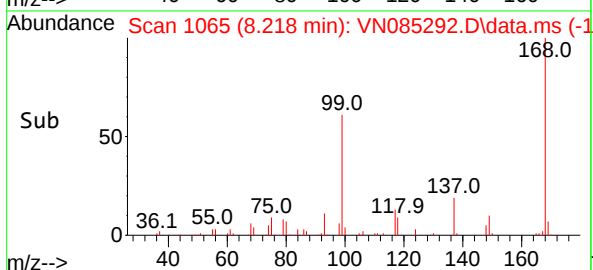
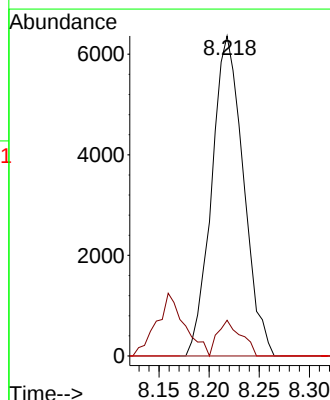
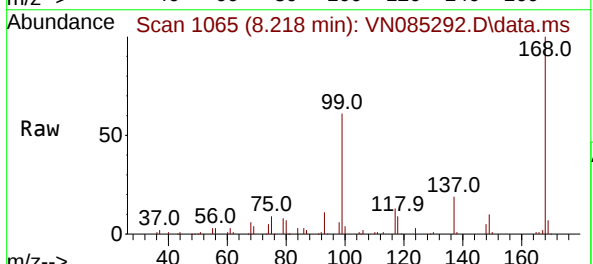
Tgt Ion: 75 Resp: 14012

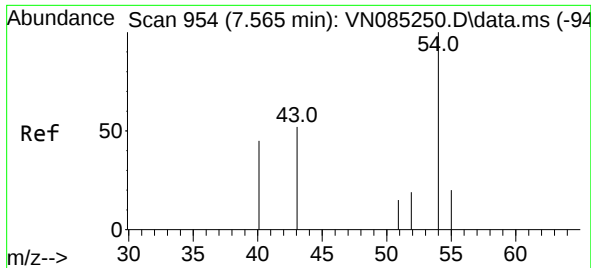
Ion Ratio Lower Upper

75 100

110 8.2 16.0 48.0#

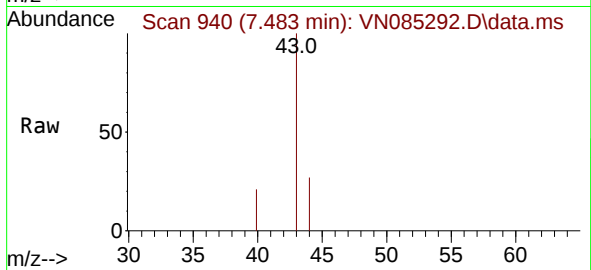
77 0.0 24.6 36.8#



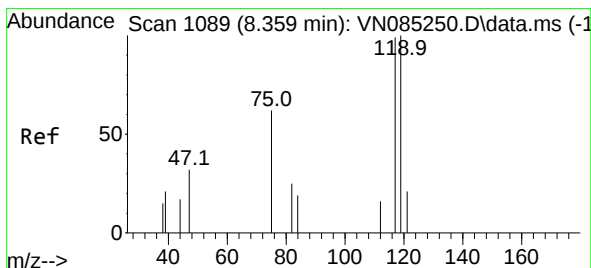
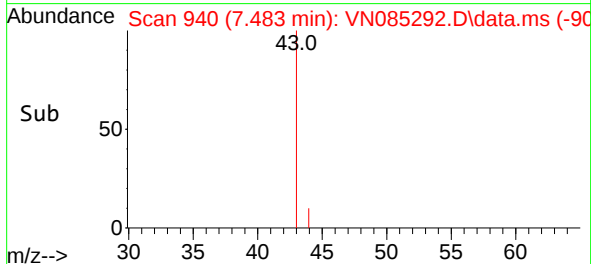
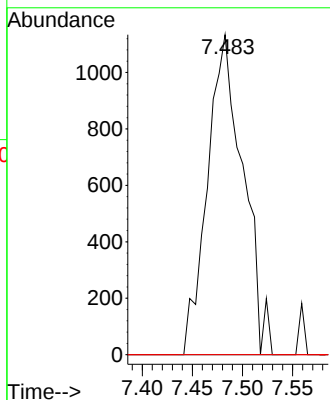


#37
Ethyl Acetate
Concen: 0.934 ug/l
RT: 7.483 min Scan# 94
Delta R.T. -0.077 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

Instrument :
MSVOA_N
ClientSampleId :

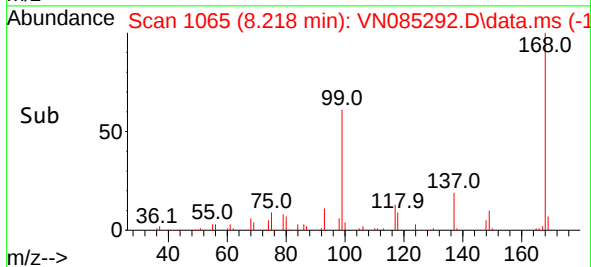
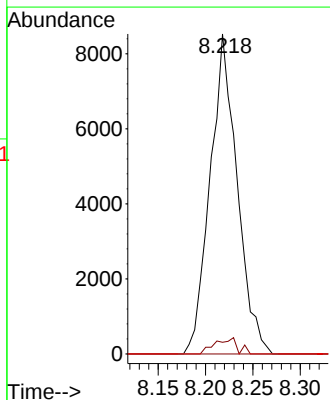
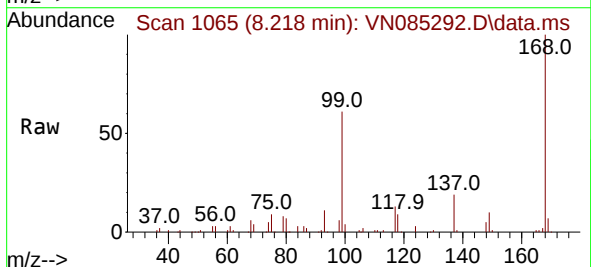


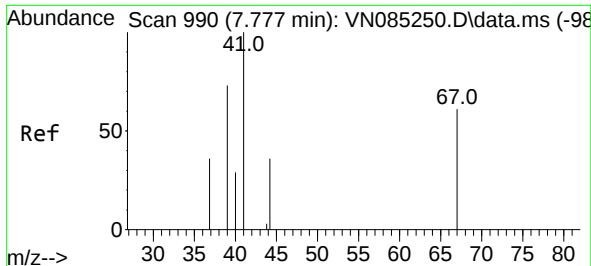
Tgt Ion: 43 Resp: 2809
Ion Ratio Lower Upper
43 100
61 0.0 9.8 14.6#
70 0.0 7.8 11.8#



#38
Carbon Tetrachloride
Concen: 5.385 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

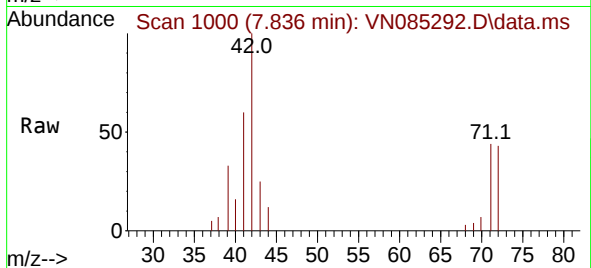
Tgt Ion: 117 Resp: 16968
Ion Ratio Lower Upper
117 100
119 3.6 74.8 112.2#
121 0.0 24.2 36.4#



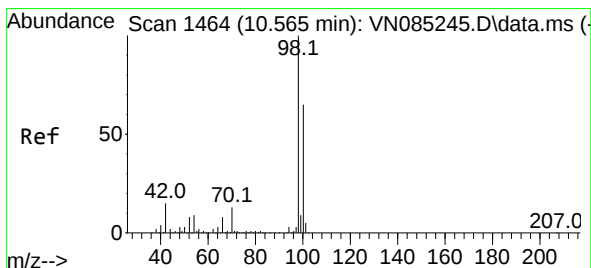
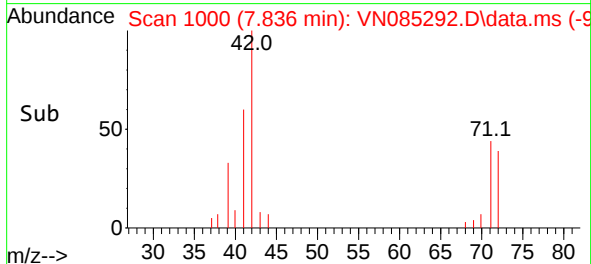
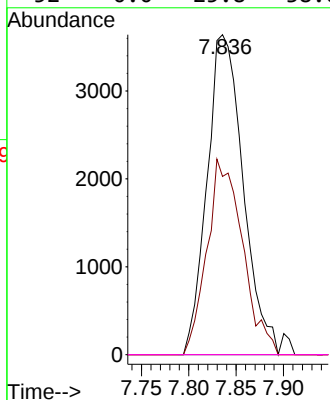


#41
Methacrylonitrile
Concen: 6.301 ug/l
RT: 7.836 min Scan# 10
Delta R.T. 0.059 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

Instrument :
MSVOA_N
ClientSampleId :

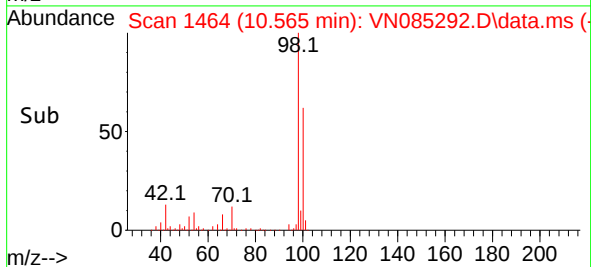
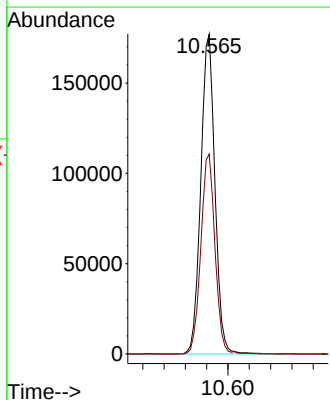
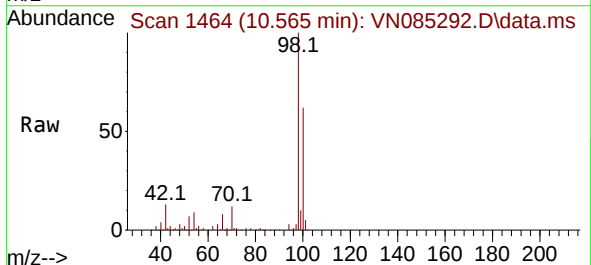


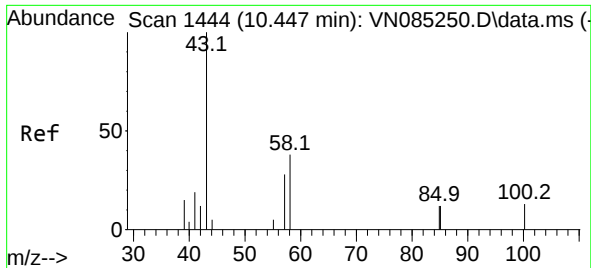
Tgt Ion: 41	Resp: 9655
Ion Ratio	Lower Upper
41 100	
39 60.3	44.0 66.0
67 0.0	56.0 84.0#
52 0.0	25.8 38.6#



#50
Toluene-d8
Concen: 47.625 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

Tgt Ion: 98	Resp: 325797
Ion Ratio	Lower Upper
98 100	
100 62.6	51.6 77.4

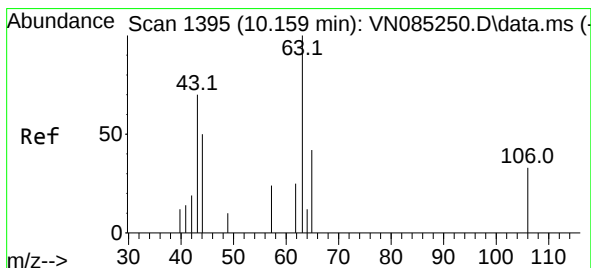
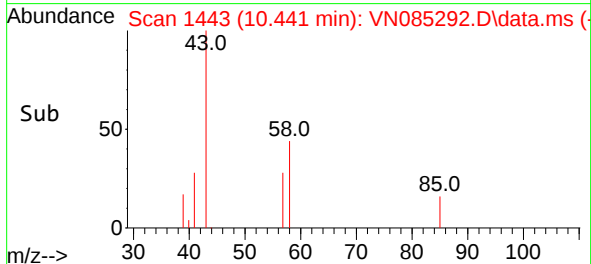
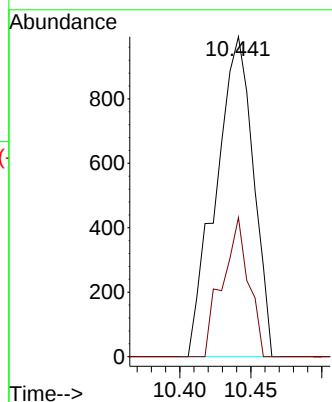
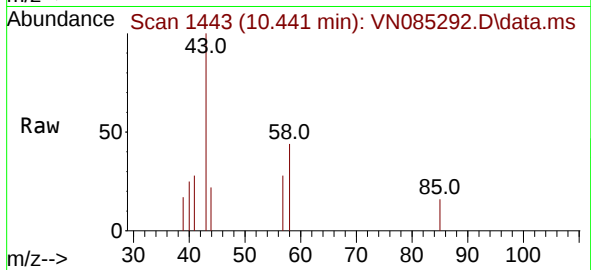




#51
4-Methyl-2-Pentanone
Concen: 0.631 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

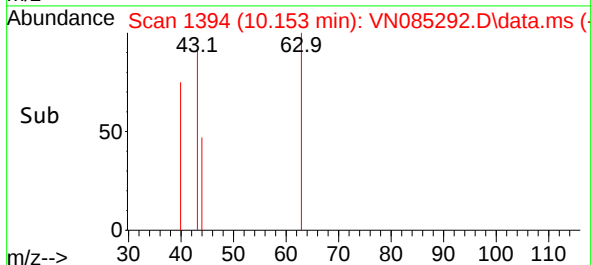
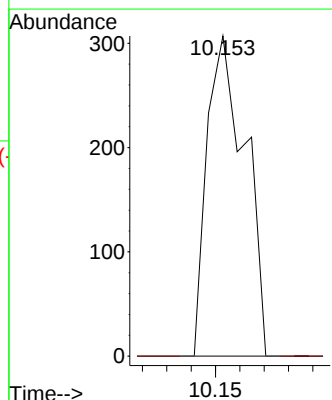
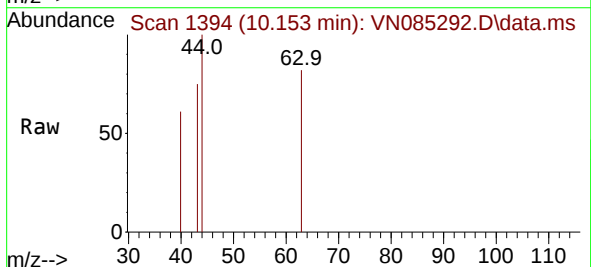
Instrument :
MSVOA_N
ClientSampleId :

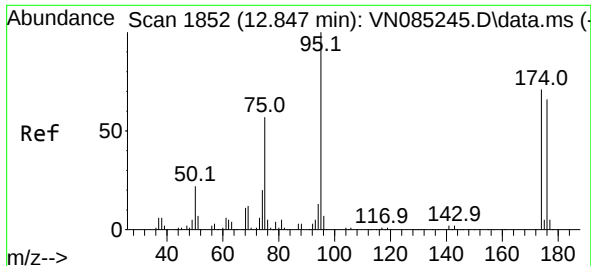
Tgt Ion: 43 Resp: 1824
Ion Ratio Lower Upper
43 100
58 30.4 29.4 44.2



#58
2-Chloroethyl Vinyl ether
Concen: 15.680 ug/l
RT: 10.153 min Scan# 1394
Delta R.T. -0.006 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

Tgt Ion: 63 Resp: 334
Ion Ratio Lower Upper
63 100
106 0.0 21.2 31.8#

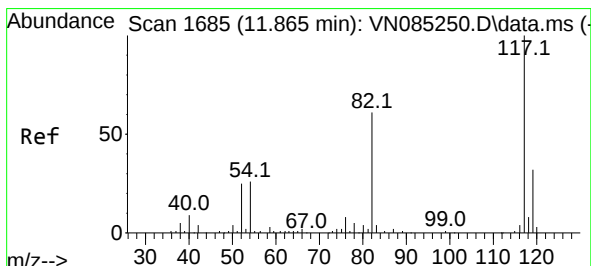
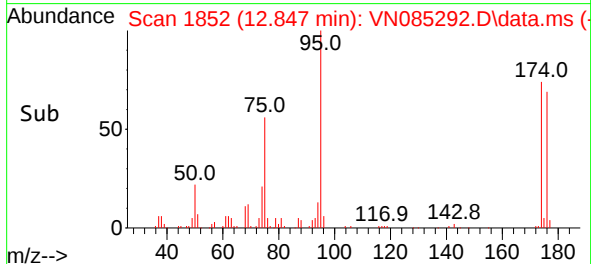
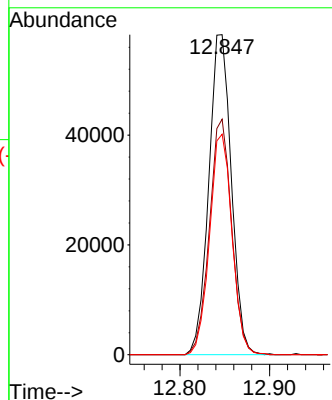
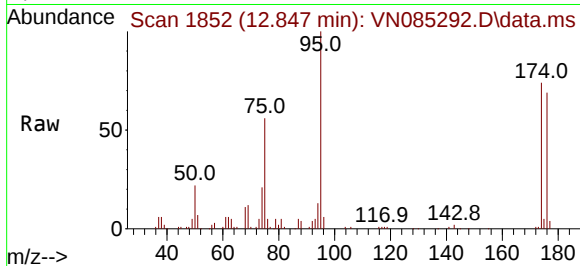




#62
4-Bromofluorobenzene
Concen: 41.658 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

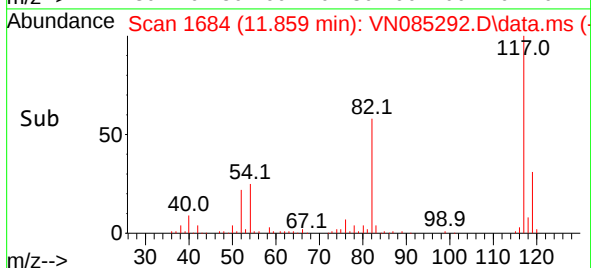
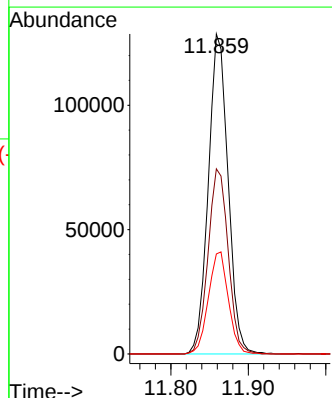
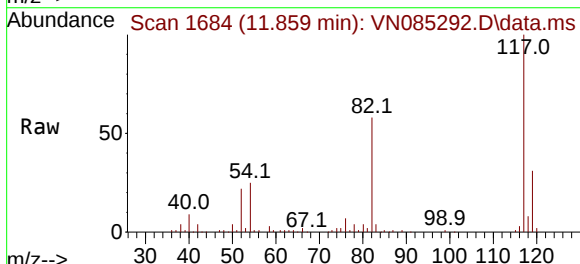
Instrument :
MSVOA_N
ClientSampleId :

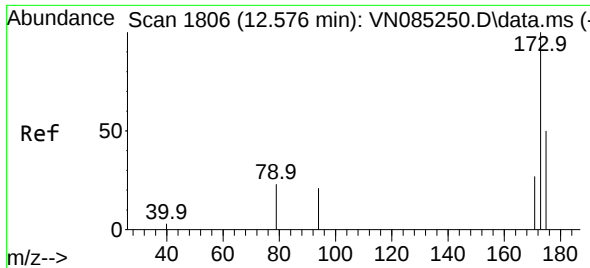
Tgt Ion: 95 Resp: 101787
Ion Ratio Lower Upper
95 100
174 72.6 0.0 144.4
176 68.4 0.0 136.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.859 min Scan# 1684
Delta R.T. -0.006 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

Tgt Ion: 117 Resp: 227841
Ion Ratio Lower Upper
117 100
82 57.8 47.4 71.2
119 31.3 25.6 38.4

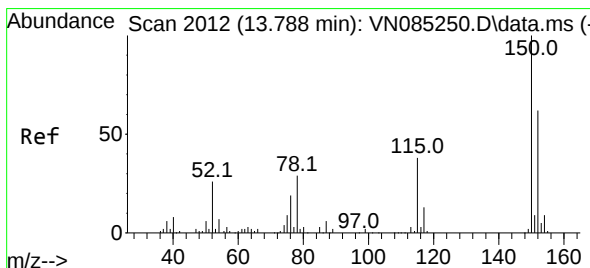
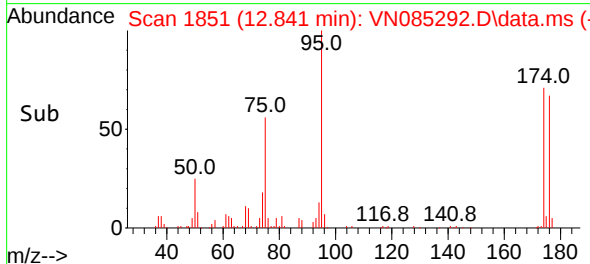
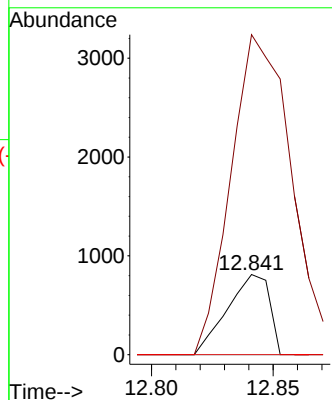
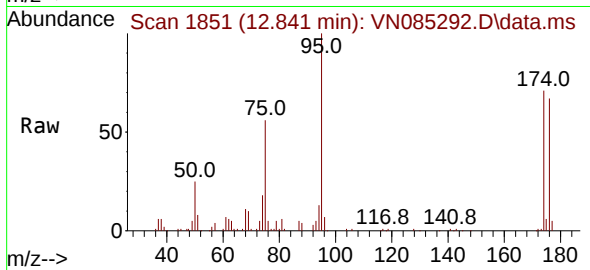




#71
Bromoform
Concen: 0.698 ug/l
RT: 12.841 min Scan# 1806
Delta R.T. 0.265 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

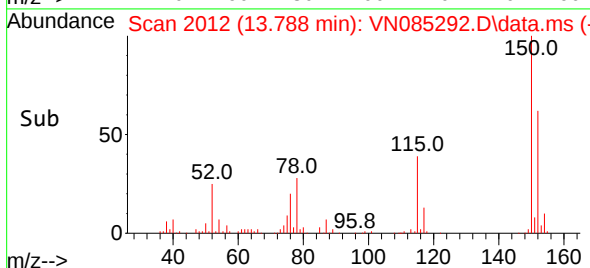
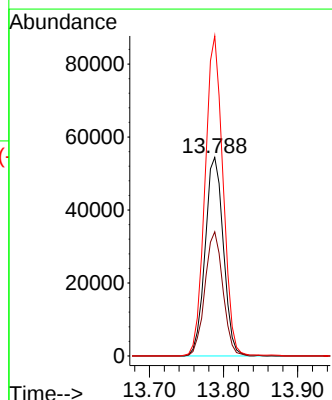
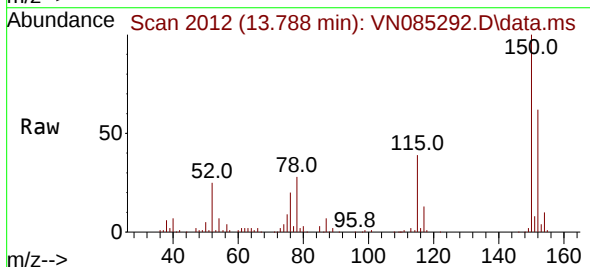
Instrument :
MSVOA_N
ClientSampleId :

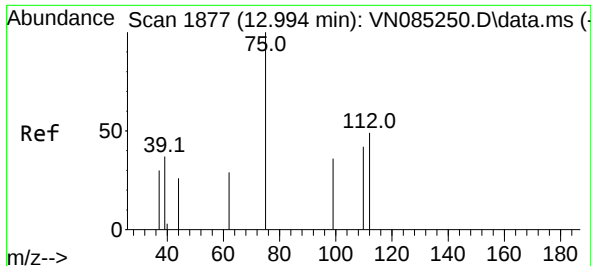
Tgt Ion:173 Resp: 977
Ion Ratio Lower Upper
173 100
175 469.2 24.5 73.5#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

Tgt Ion:152 Resp: 93103
Ion Ratio Lower Upper
152 100
115 61.4 32.1 96.3
150 158.6 0.0 354.6

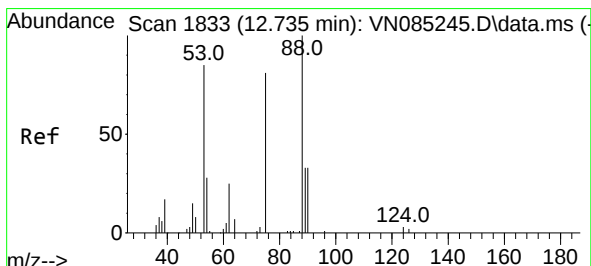
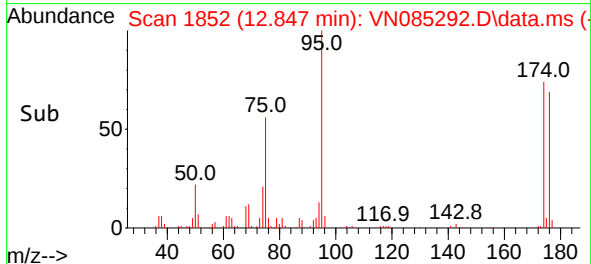
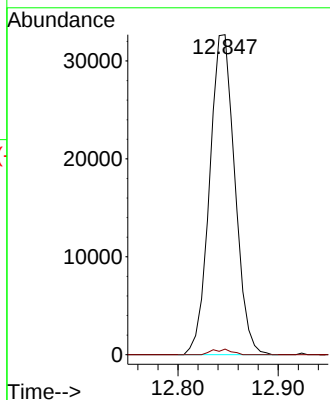
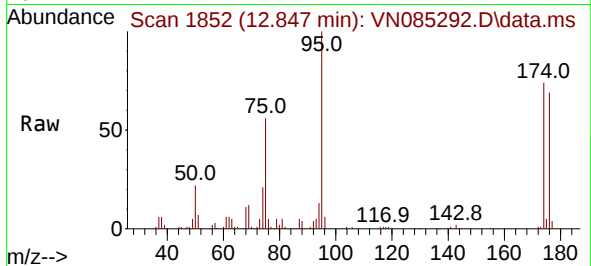




#76
1,2,3-Trichloropropane
Concen: 25.728 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

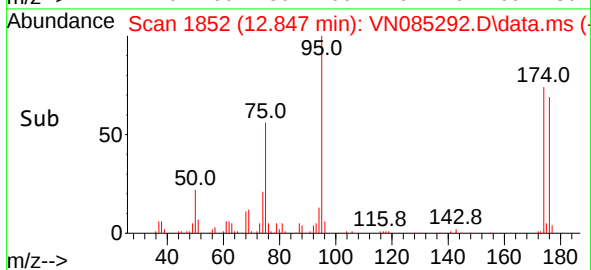
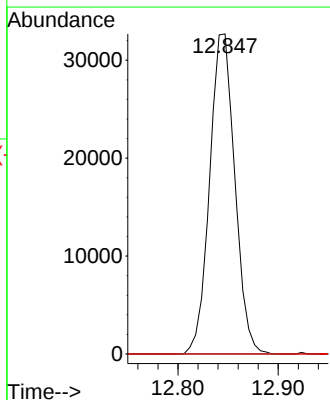
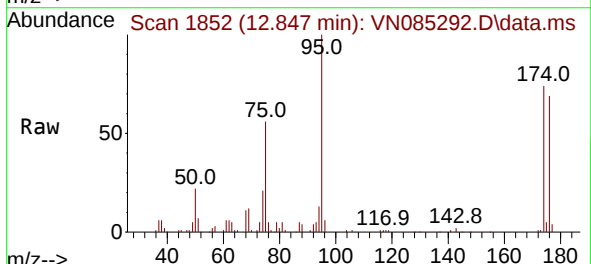
Instrument :
MSVOA_N
ClientSampleId :

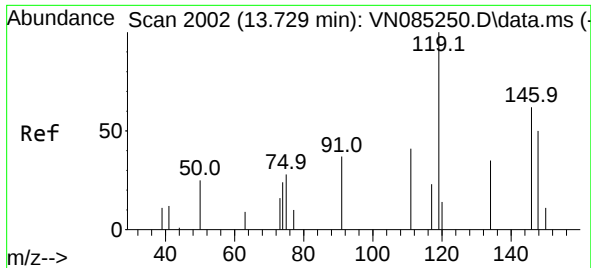
Tgt Ion: 75 Resp: 57098
Ion Ratio Lower Upper
75 100
77 1.3 102.6 307.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 68.317 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

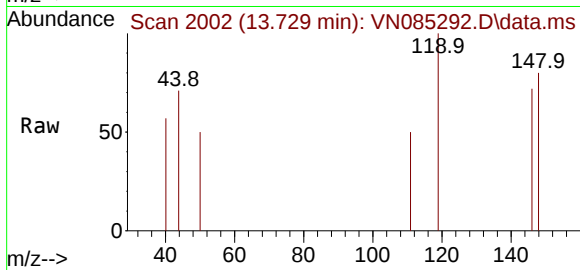
Tgt Ion: 75 Resp: 57098
Ion Ratio Lower Upper
75 100
53 0.0 84.9 127.3#
89 0.0 37.9 56.9#



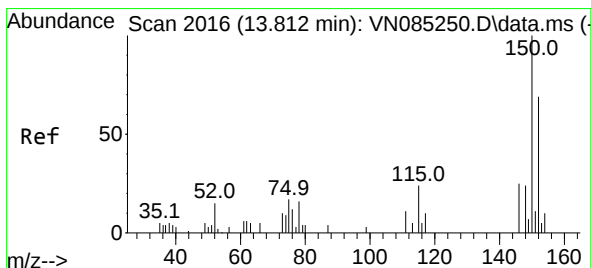
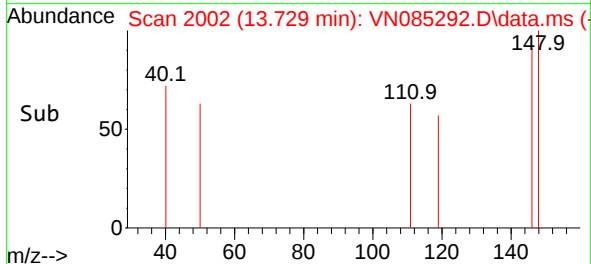
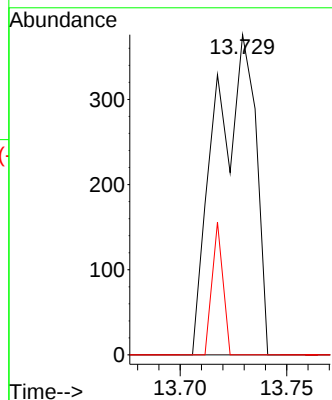


#86
 p-Isopropyltoluene
 Concen: 2.020 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN085292.D
 Acq: 23 Dec 2024 14:26

Instrument :
 MSVOA_N
 ClientSampleId :

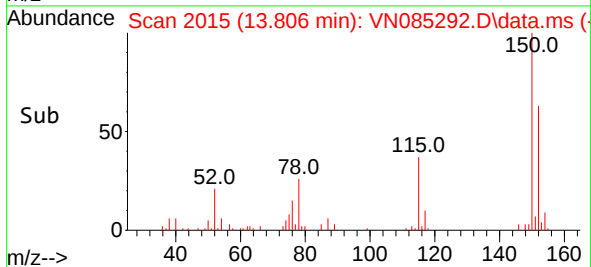
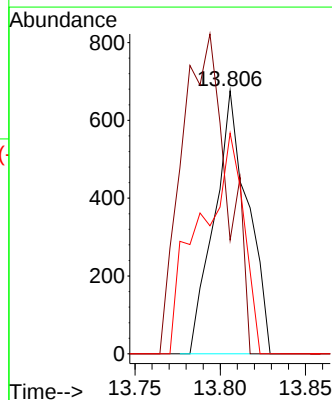
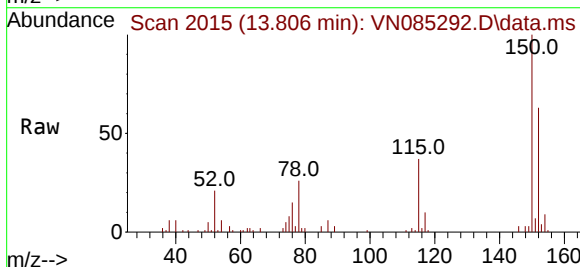


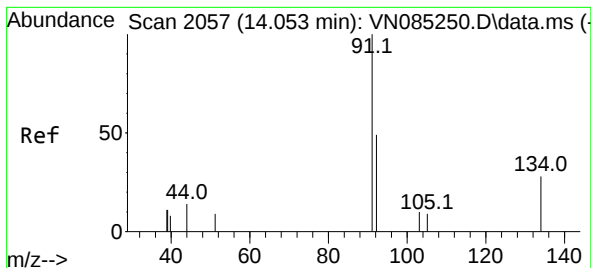
Tgt Ion:119 Resp: 489
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.5 37.5#
 91 11.2 13.0 38.9#



#88
 1,4-Dichlorobenzene
 Concen: 0.275 ug/l
 RT: 13.806 min Scan# 2015
 Delta R.T. -0.006 min
 Lab File: VN085292.D
 Acq: 23 Dec 2024 14:26

Tgt Ion:146 Resp: 923
 Ion Ratio Lower Upper
 146 100
 111 166.0 20.8 62.5#
 148 108.9 31.9 95.9#





#89

n-Butylbenzene

Concen: 0.211 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085292.D

Acq: 23 Dec 2024 14:26

Instrument :

MSVOA_N

ClientSampleId :

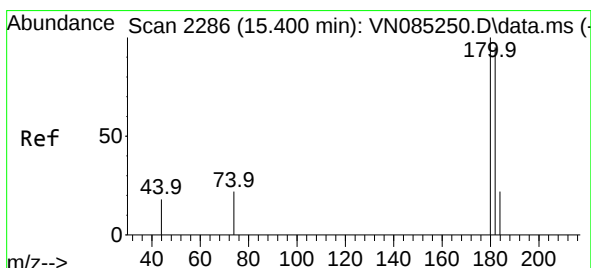
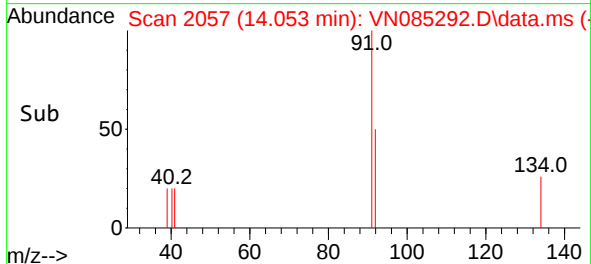
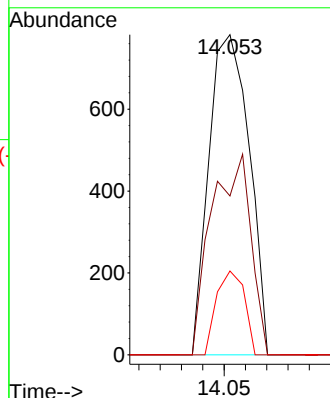
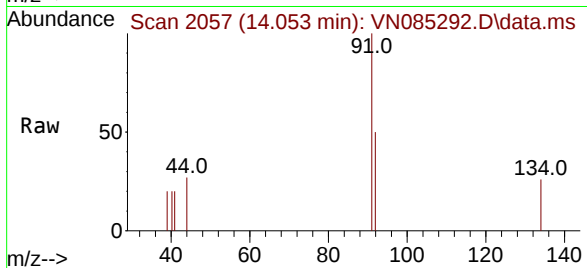
Tgt Ion: 91 Resp: 1028

Ion Ratio Lower Upper

91 100

92 61.2 25.8 77.3

134 18.2 12.0 36.0



#93

1,2,4-Trichlorobenzene

Concen: 0.658 ug/l

RT: 15.382 min Scan# 2283

Delta R.T. -0.006 min

Lab File: VN085292.D

Acq: 23 Dec 2024 14:26

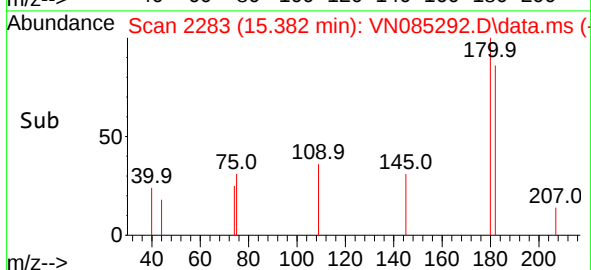
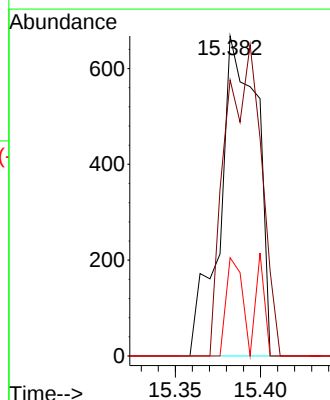
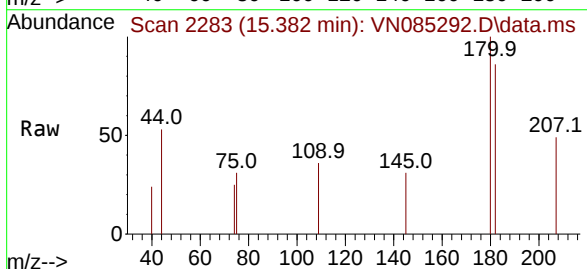
Tgt Ion:180 Resp: 1018

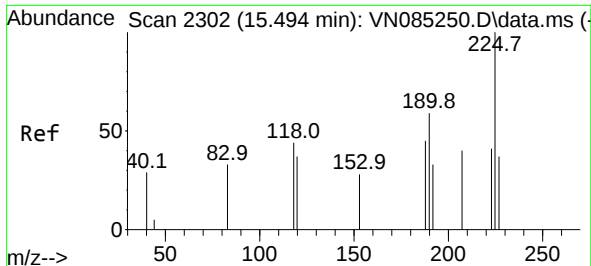
Ion Ratio Lower Upper

180 100

182 93.4 46.3 138.8

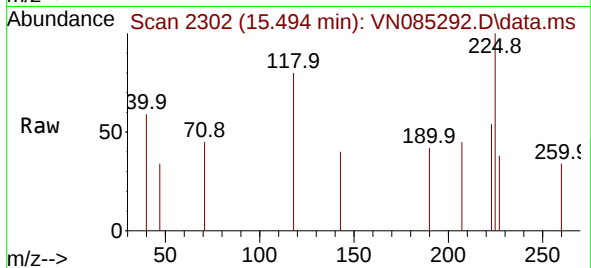
145 13.2 16.6 49.7#



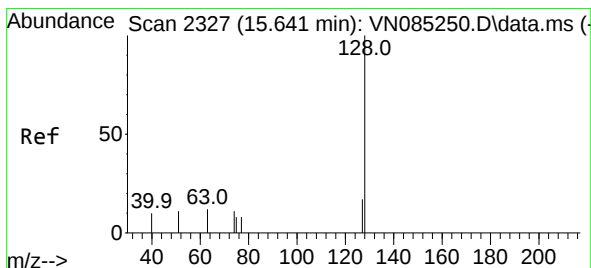
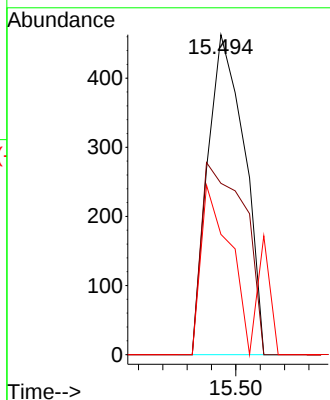
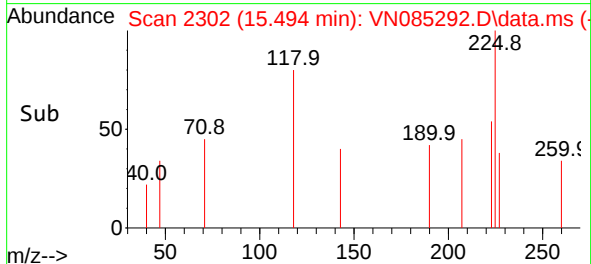


#94
Hexachlorobutadiene
Concen: 0.601 ug/l
RT: 15.494 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

Instrument :
MSVOA_N
ClientSampleId :

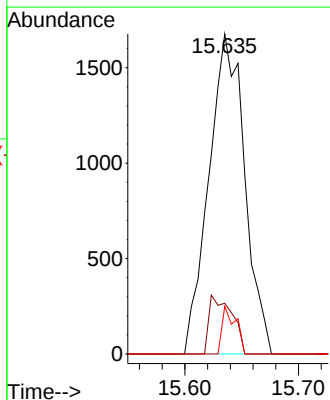
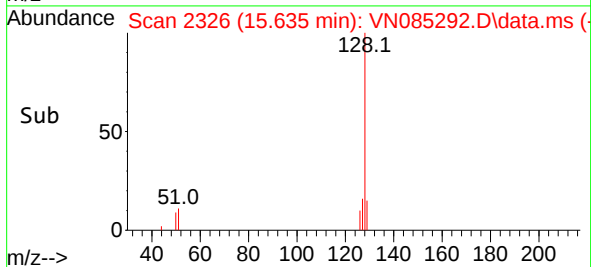
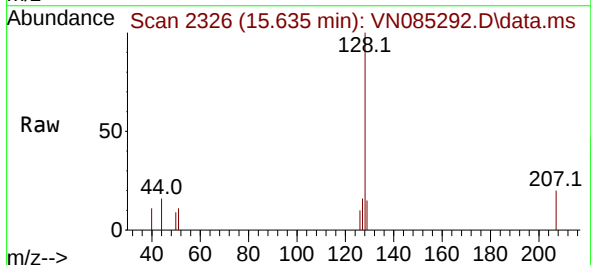


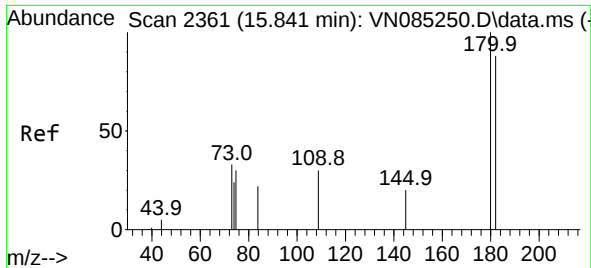
Tgt Ion:225 Resp: 483
Ion Ratio Lower Upper
225 100
223 70.6 34.1 102.2
227 54.5 33.2 99.6



#95
Naphthalene
Concen: 0.717 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN085292.D
Acq: 23 Dec 2024 14:26

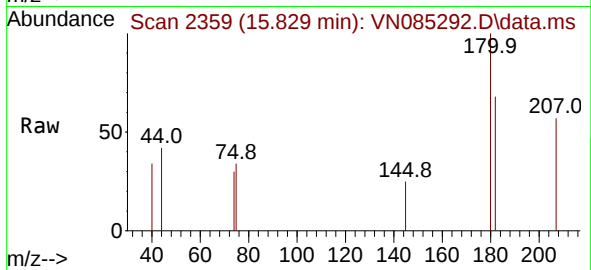
Tgt Ion:128 Resp: 3671
Ion Ratio Lower Upper
128 100
127 11.7 10.3 15.5
129 5.7 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.810 ug/l
 RT: 15.829 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VN085292.D
 Acq: 23 Dec 2024 14:26

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	180	Resp:	1251
Ion	Ratio	Lower	Upper
180	100		
182	91.0	46.9	140.6
145	22.1	17.6	52.8

