

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121624\
 Data File : VN085211.D
 Acq On : 16 Dec 2024 11:57
 Operator : JC\MD
 Sample : P5276-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 16 12:22:32 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 06 22:50:42 2024
 Response via : Initial Calibration

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

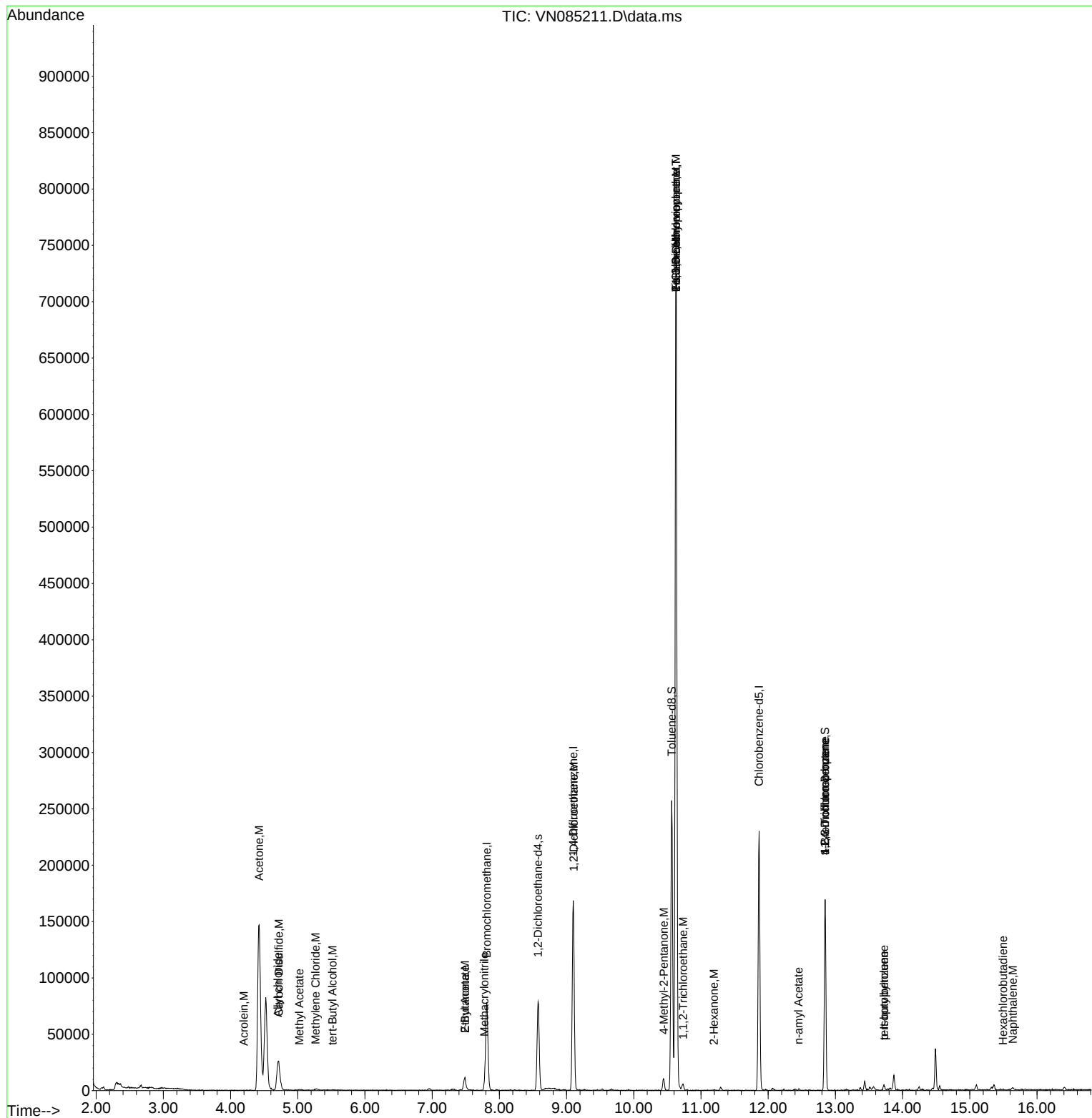
Internal Standards						
1) Bromochloromethane	7.812	128	27333	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	145796	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	134362	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	65807	30.343	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.133%
60) 4-Bromofluorobenzene	12.847	95	59091	26.580	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	88.600%
63) Toluene-d8	10.565	98	178120	28.261	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.200%
Target Compounds						
					Qvalue	
12) Methyl Acetate	5.024	43	825	0.420	ug/l #	51
13) Acrolein	4.200	56	134	0.470	ug/l #	42
15) Acetone	4.424	58	89517	405.114	ug/l	100
16) Carbon Disulfide	4.718	76	2535	0.509	ug/l #	75
17) Allyl chloride	4.706	41	4608	1.935	ug/l	87
18) Methylene Chloride	5.265	84	492	0.260	ug/l #	63
23) tert-Butyl Alcohol	5.518	59	111	0.379	ug/l #	100
30) 2-Butanone	7.488	43	18689	17.311	ug/l #	98
35) Methacrylonitrile	7.777	41	378	0.311	ug/l #	24
36) 1,2-Dichloroethane	9.106	62	4831	1.920	ug/l #	75
43) Ethyl Acetate	7.488	43	18689	8.700	ug/l #	61
47) n-amyl Acetate	12.453	43	1472	0.469	ug/l #	46
48) t-1,3-Dichloropropene	10.629	75	4492	1.667	ug/l #	1
49) cis-1,3-Dichloropropene	10.629	75	4492	1.531	ug/l #	1
50) 1,1,2-Trichloroethane	10.735	97	5002	2.891	ug/l #	22
55) 2-Chloroethyl vinyl ether	10.629	63	40474	33.107	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	7853	3.581	ug/l	96
59) 2-Hexanone	11.194	43	349	0.210	ug/l #	78
62) Toluene	10.629	91	591725	75.514	ug/l	99
72) 1,2,3-Trichloropropane	12.847	75	31437	13.497	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	31437	37.143	ug/l #	10
79) tert-butylbenzene	13.723	119	3174	0.582	ug/l	58
82) p-Isopropyltoluene	13.723	119	3174	0.494	ug/l	96
90) Hexachlorobutadiene	15.494	225	192	0.225	ug/l #	19
91) Naphthalene	15.641	128	2995	0.586	ug/l #	71

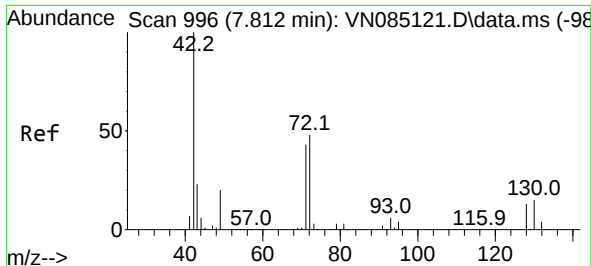
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Dec 16 12:22:32 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N120624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Dec 06 22:50:42 2024
Response via : Initial Calibration

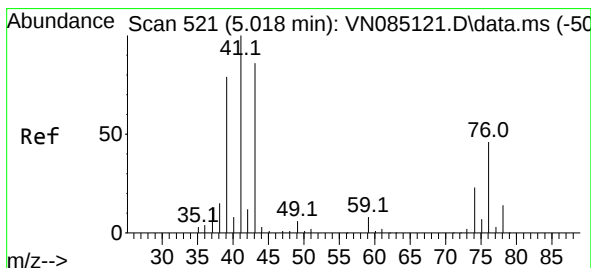
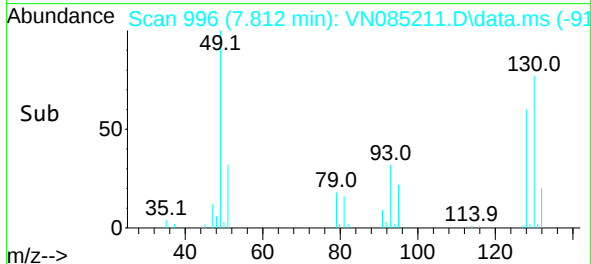
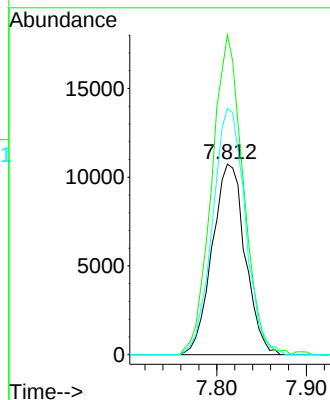
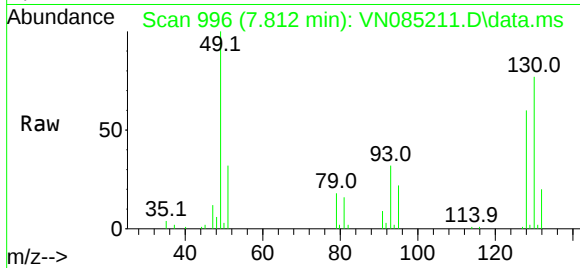




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

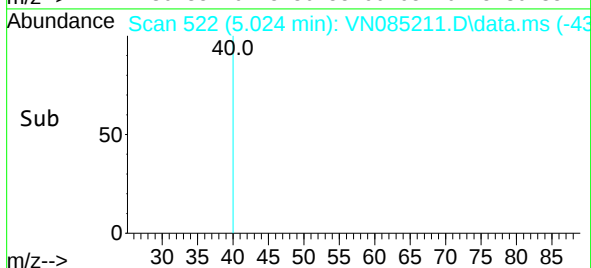
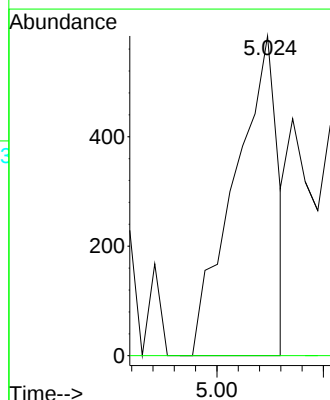
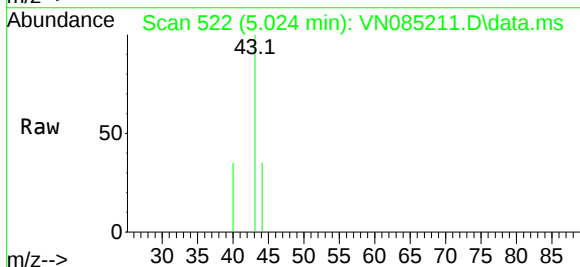
Instrument :
MSVOA_N
ClientSampleId :

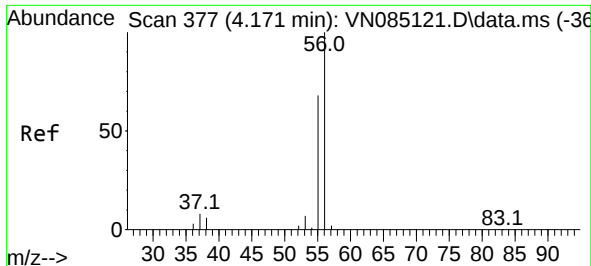
Tgt Ion:128 Resp: 27333
Ion Ratio Lower Upper
128 100
49 160.1 0.0 394.5
130 128.7 0.0 316.5



#12
Methyl Acetate
Concen: 0.420 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

Tgt Ion: 43 Resp: 825
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#





#13

Acrolein

Concen: 0.470 ug/l

RT: 4.200 min Scan# 382

Delta R.T. 0.018 min

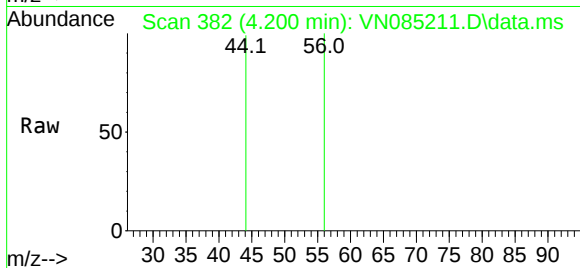
Lab File: VN085211.D

Acq: 16 Dec 2024 11:57

Instrument :

MSVOA_N

ClientSampleId :

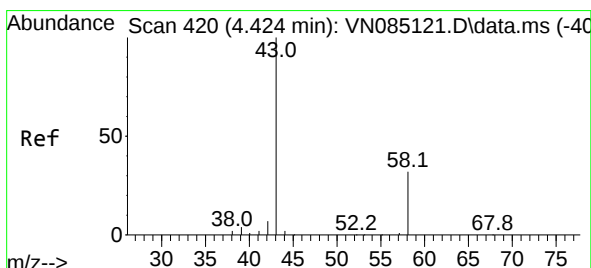
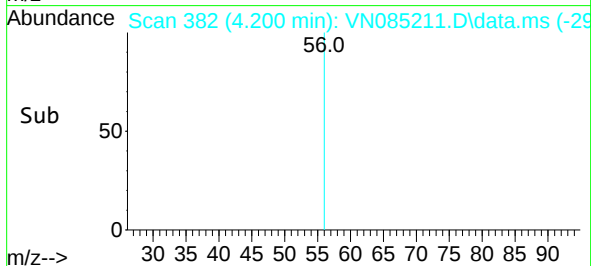
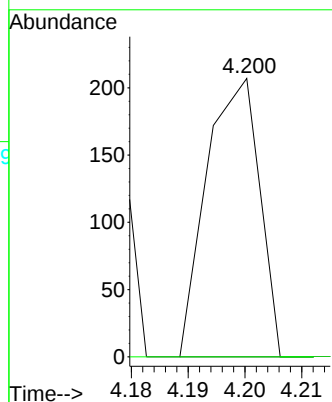


Tgt Ion: 56 Resp: 134

Ion Ratio Lower Upper

56 100

55 123.1 59.4 89.0#



#15

Acetone

Concen: 405.114 ug/l

RT: 4.424 min Scan# 420

Delta R.T. -0.000 min

Lab File: VN085211.D

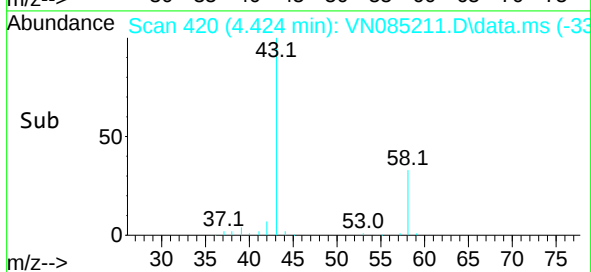
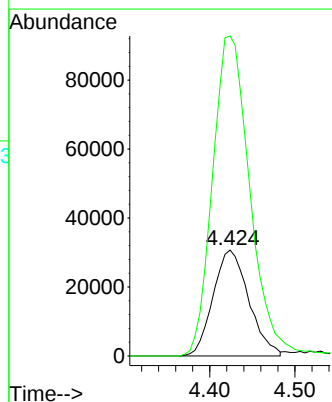
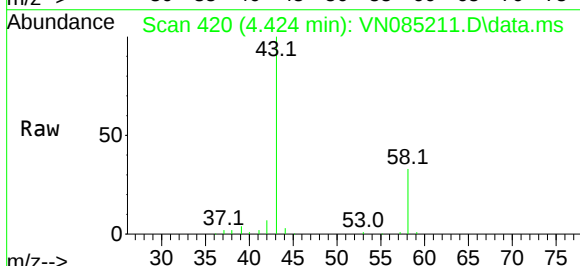
Acq: 16 Dec 2024 11:57

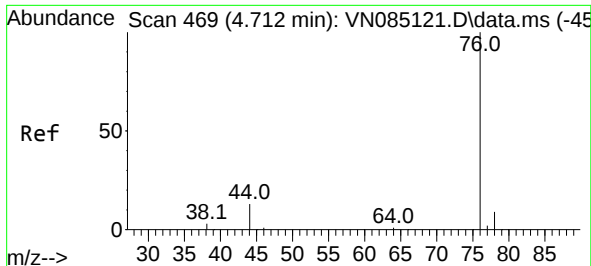
Tgt Ion: 58 Resp: 89517

Ion Ratio Lower Upper

58 100

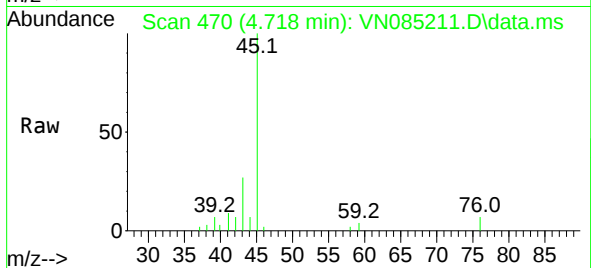
43 302.1 242.3 363.5



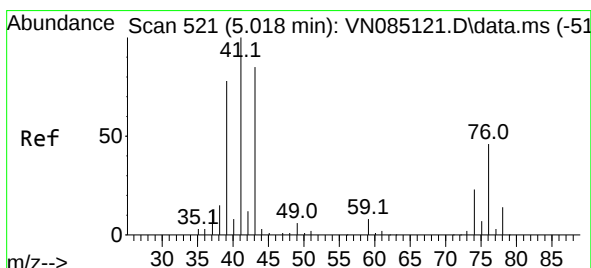
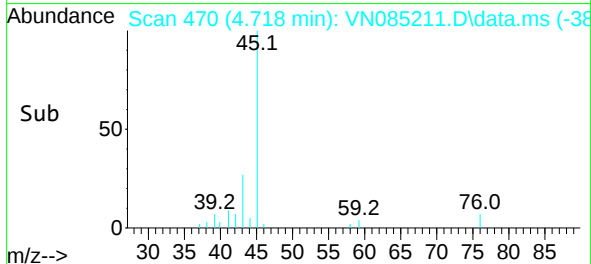
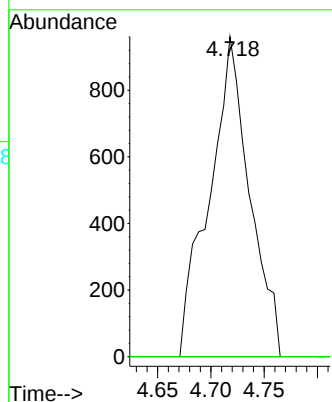


#16
Carbon Disulfide
Concen: 0.509 ug/l
RT: 4.718 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

Instrument :
MSVOA_N
ClientSampleId :

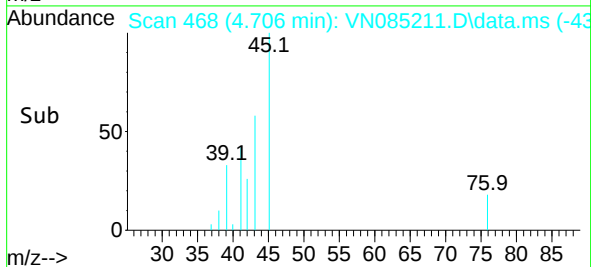
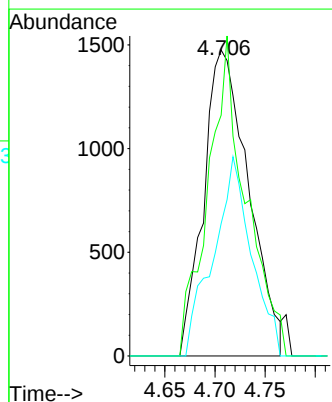
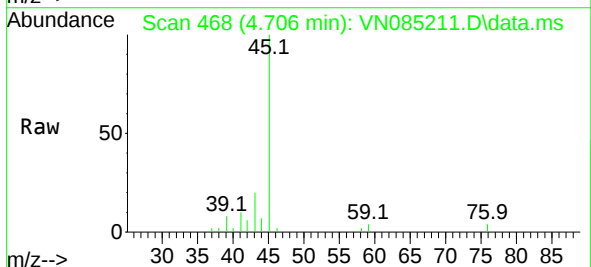


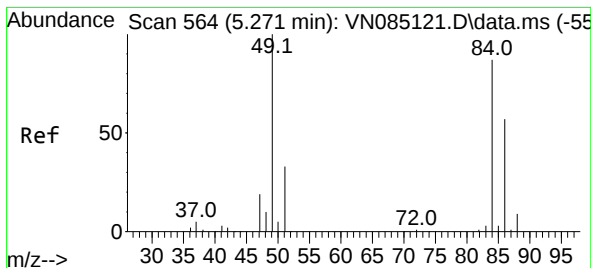
Tgt Ion: 76 Resp: 2535
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#17
Allyl chloride
Concen: 1.935 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.318 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

Tgt Ion: 41 Resp: 4608
Ion Ratio Lower Upper
41 100
39 78.7 32.0 96.2
76 43.3 20.2 60.5





#18

Methylene Chloride

Concen: 0.260 ug/l

RT: 5.265 min Scan# 5

Delta R.T. -0.006 min

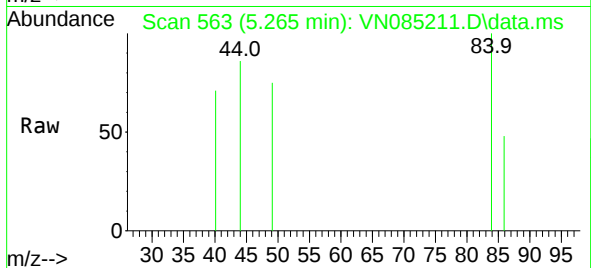
Lab File: VN085211.D

Acq: 16 Dec 2024 11:57

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 84 Resp: 492

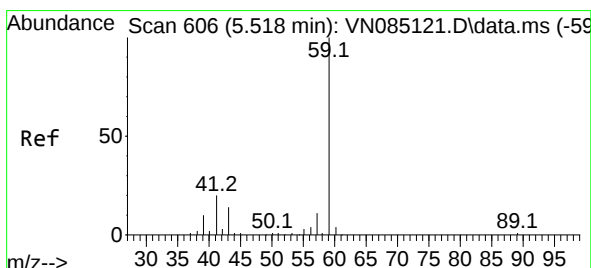
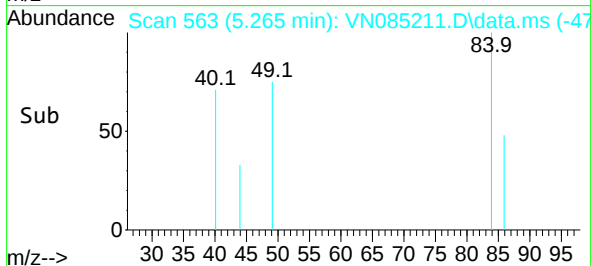
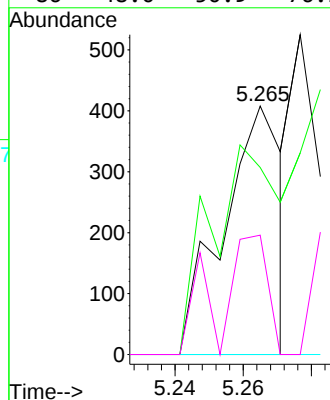
Ion Ratio Lower Upper

84 100

49 75.2 95.1 142.7#

51 0.0 27.4 41.0#

86 48.0 50.9 76.3#



#23

tert-Butyl Alcohol

Concen: 0.379 ug/l

RT: 5.518 min Scan# 606

Delta R.T. 0.006 min

Lab File: VN085211.D

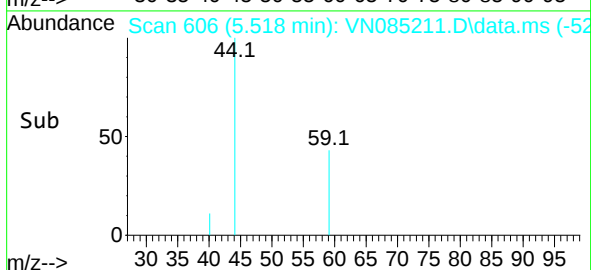
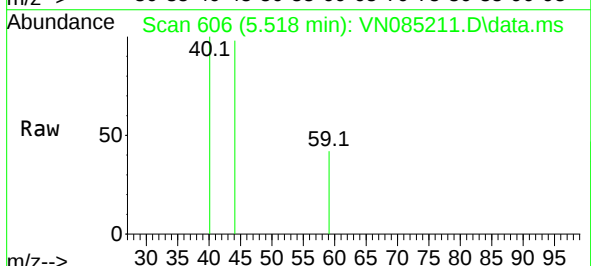
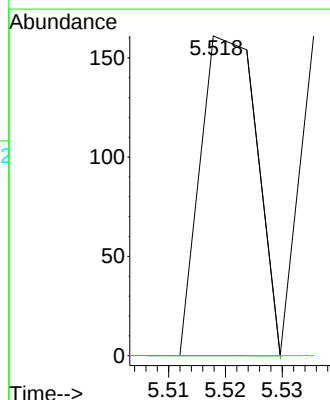
Acq: 16 Dec 2024 11:57

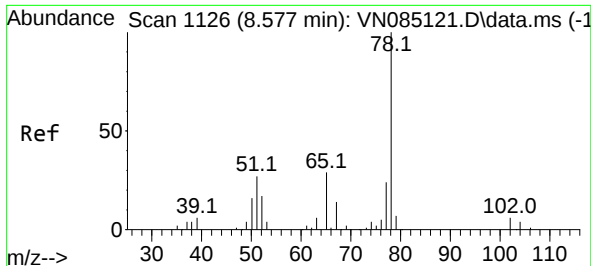
Tgt Ion: 59 Resp: 111

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

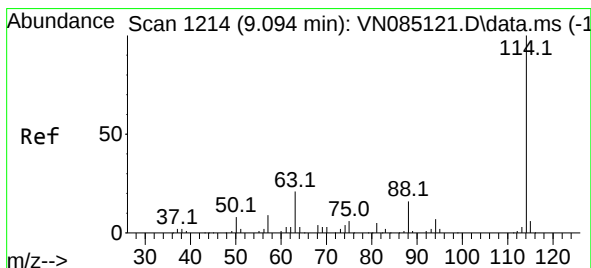
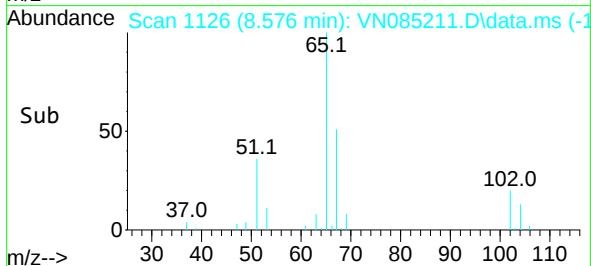
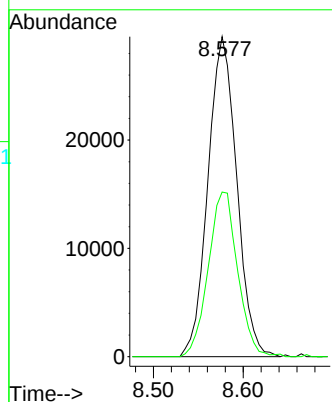
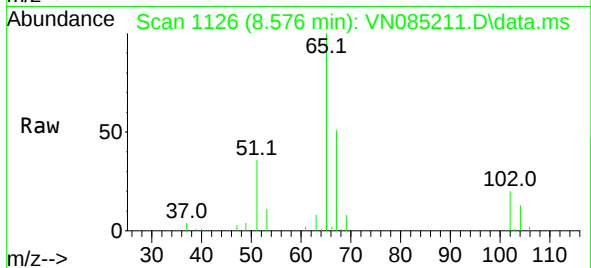




#27
1,2-Dichloroethane-d4
Concen: 30.343 ug/l
RT: 8.576 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

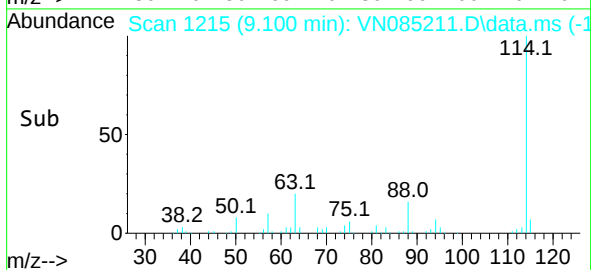
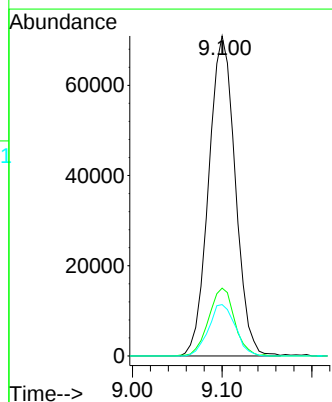
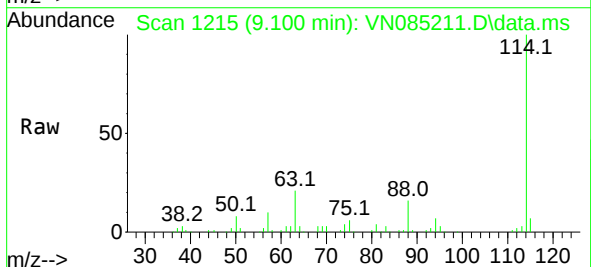
Instrument :
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ClientSampleId :

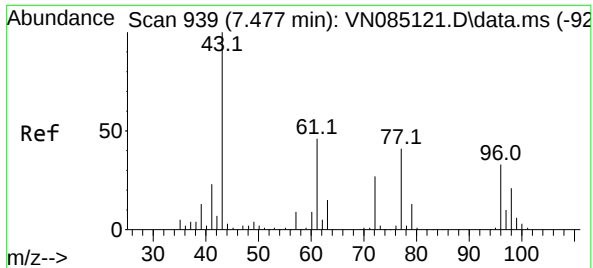
Tgt Ion: 65 Resp: 65807
Ion Ratio Lower Upper
65 100
67 52.2 39.9 59.9



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

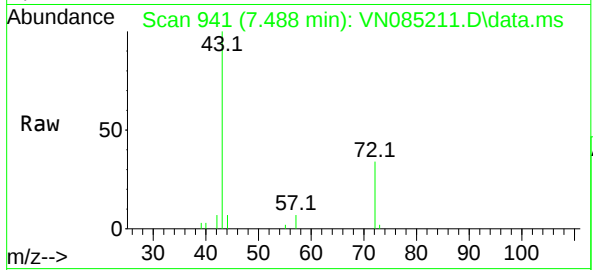
Tgt Ion: 114 Resp: 145796
Ion Ratio Lower Upper
114 100
63 20.7 16.2 24.2
88 16.2 12.5 18.7



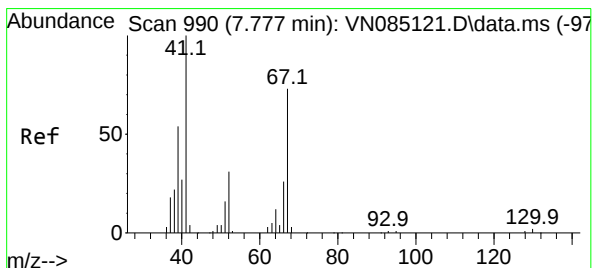
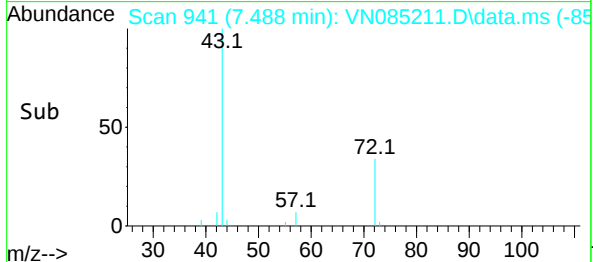
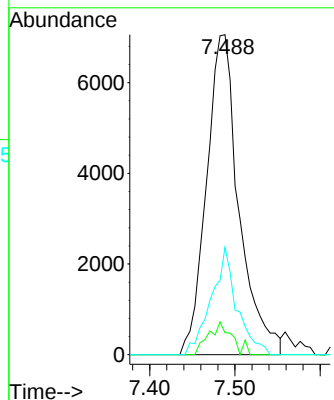


#30
2-Butanone
Concen: 17.311 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

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ClientSampleId :

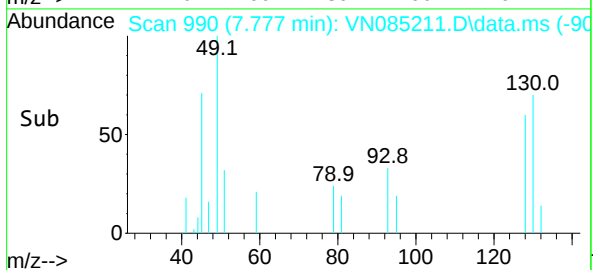
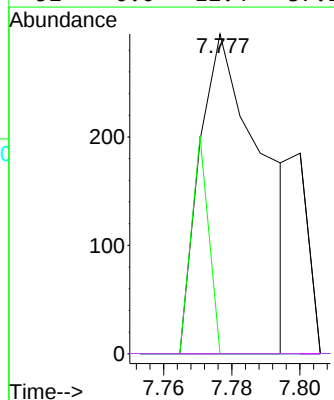
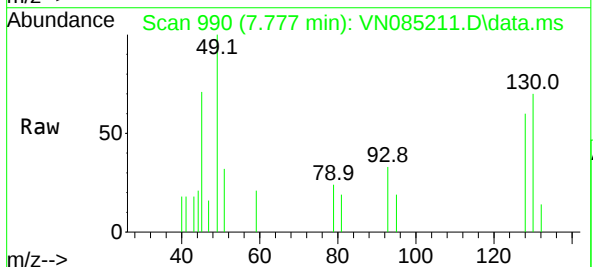


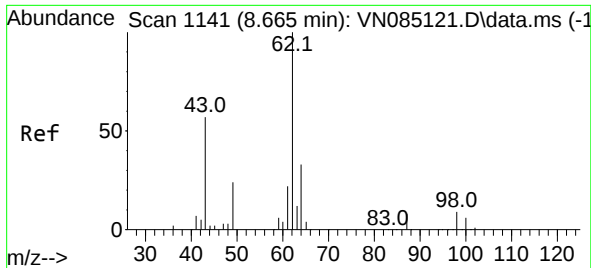
Tgt Ion: 43 Resp: 18689
Ion Ratio Lower Upper
43 100
57 6.8 6.9 10.3#
72 26.5 21.8 32.8



#35
Methacrylonitrile
Concen: 0.311 ug/l
RT: 7.777 min Scan# 990
Delta R.T. -0.000 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

Tgt Ion: 41 Resp: 378
Ion Ratio Lower Upper
41 100
39 0.0 24.4 73.2#
67 0.0 37.0 110.9#
52 0.0 12.4 37.2#





#36

1,2-Dichloroethane

Concen: 1.920 ug/l

RT: 9.106 min Scan# 1141

Delta R.T. 0.441 min

Lab File: VN085211.D

Acq: 16 Dec 2024 11:57

Instrument :

MSVOA_N

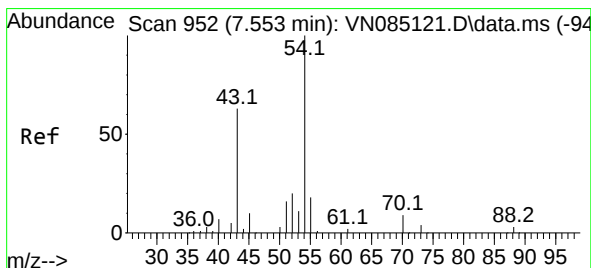
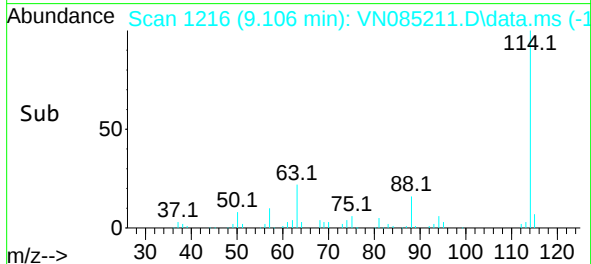
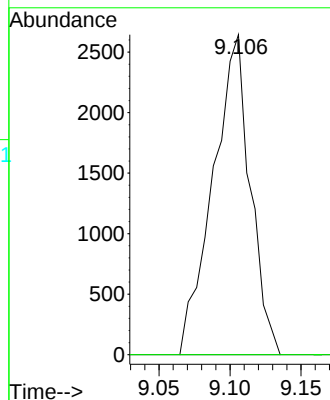
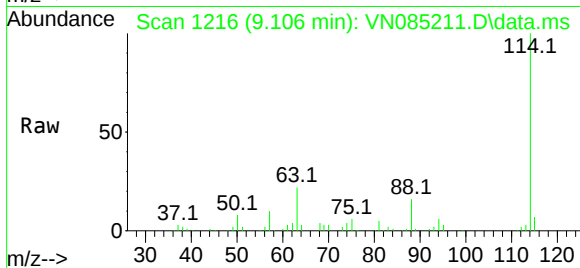
ClientSampleId :

Tgt Ion: 62 Resp: 4831

Ion Ratio Lower Upper

62 100

98 0.0 7.3 10.9#



#43

Ethyl Acetate

Concen: 8.700 ug/l

RT: 7.488 min Scan# 941

Delta R.T. -0.071 min

Lab File: VN085211.D

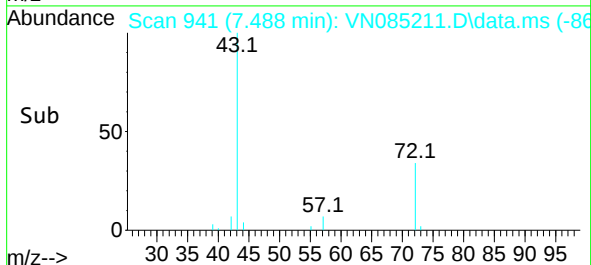
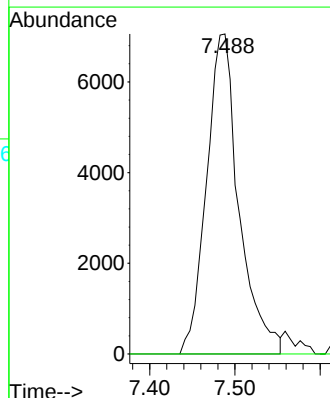
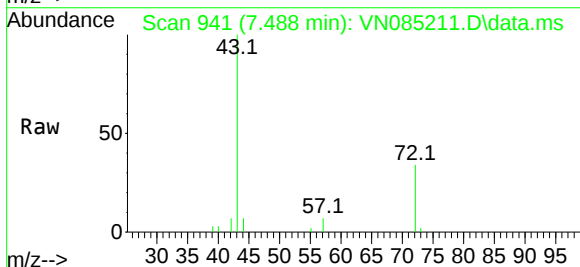
Acq: 16 Dec 2024 11:57

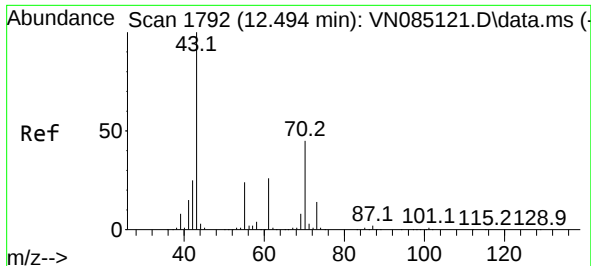
Tgt Ion: 43 Resp: 18689

Ion Ratio Lower Upper

43 100

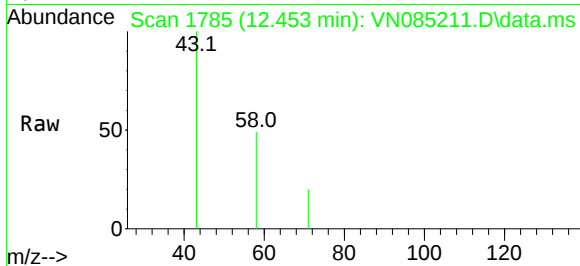
45 0.0 13.3 19.9#



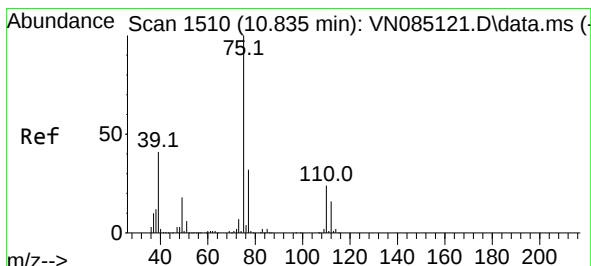
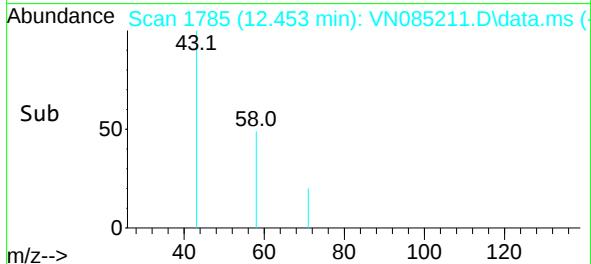
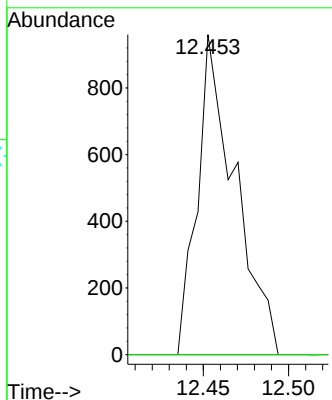


#47
n-amy1 Acetate
Concen: 0.469 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.041 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

Instrument :
MSVOA_N
ClientSampleId :

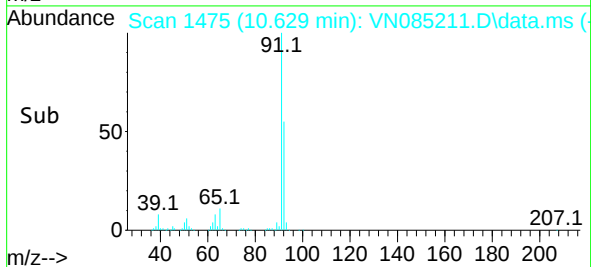
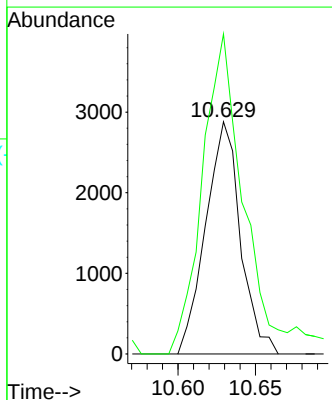
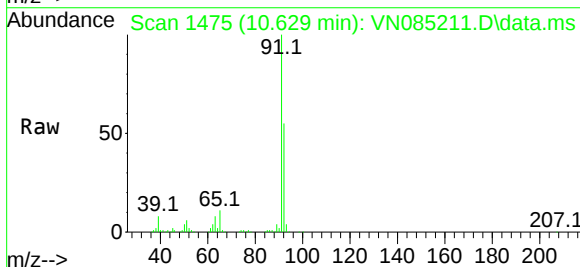


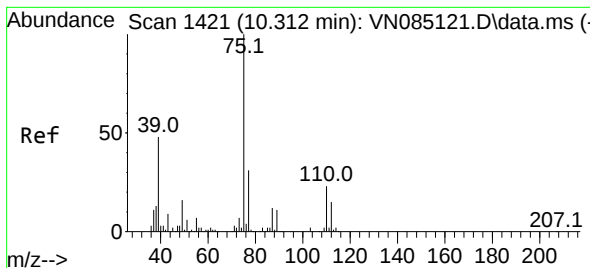
Tgt Ion: 43 Resp: 1472
Ion Ratio Lower Upper
43 100
55 0.0 23.3 34.9#



#48
t-1,3-Dichloropropene
Concen: 1.667 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.206 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

Tgt Ion: 75 Resp: 4492
Ion Ratio Lower Upper
75 100
77 127.9 25.5 38.3#





#49

cis-1,3-Dichloropropene

Concen: 1.531 ug/l

RT: 10.629 min Scan# 1492

Delta R.T. 0.318 min

Lab File: VN085211.D

Acq: 16 Dec 2024 11:57

Instrument :

MSVOA_N

ClientSampleId :

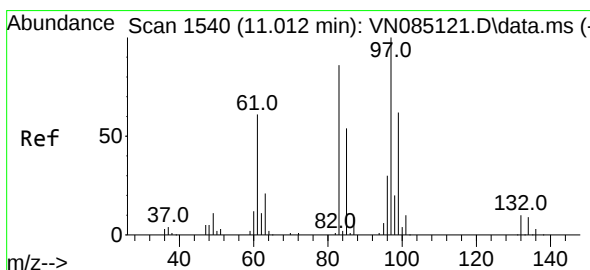
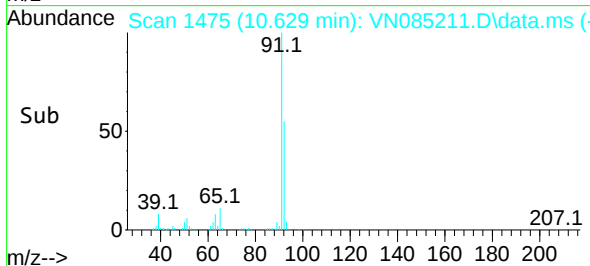
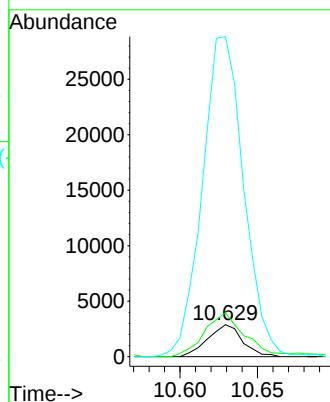
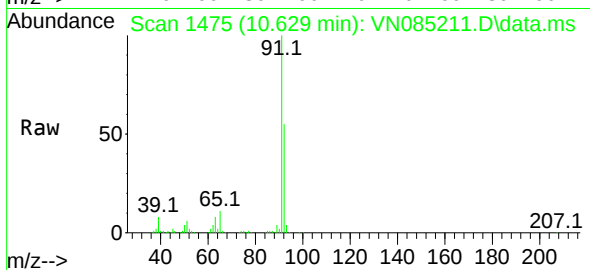
Tgt Ion: 75 Resp: 4492

Ion Ratio Lower Upper

75 100

77 127.9 23.8 35.6#

39 984.8 37.3 55.9#



#50

1,1,2-Trichloroethane

Concen: 2.891 ug/l

RT: 10.735 min Scan# 1493

Delta R.T. -0.277 min

Lab File: VN085211.D

Acq: 16 Dec 2024 11:57

Tgt Ion: 97 Resp: 5002

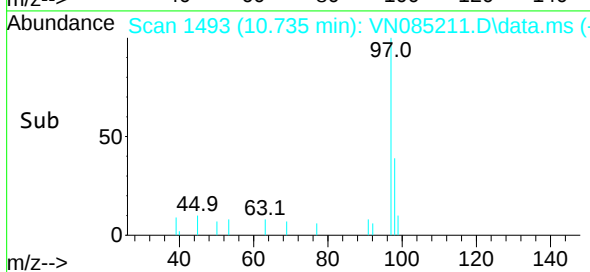
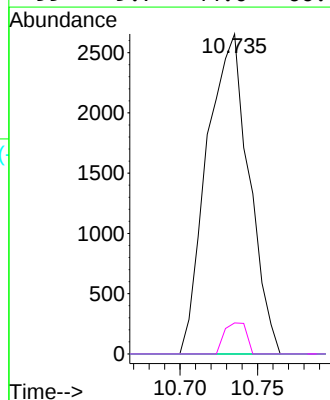
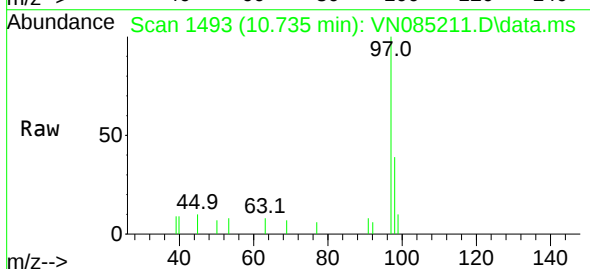
Ion Ratio Lower Upper

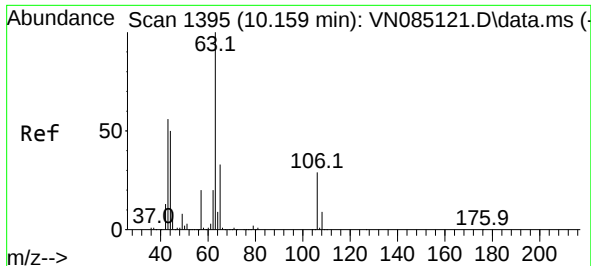
97 100

83 0.0 65.8 98.8#

85 0.0 40.8 61.2#

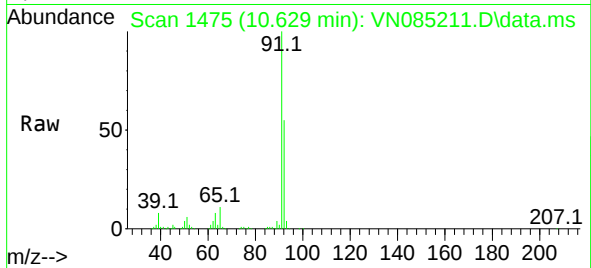
99 9.7 44.0 66.0#



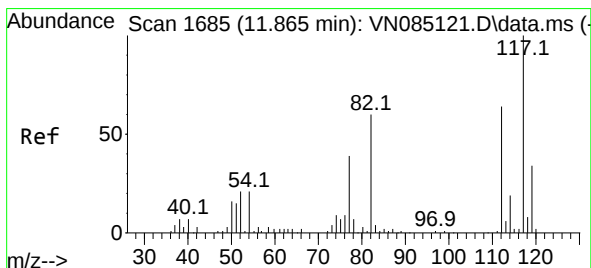
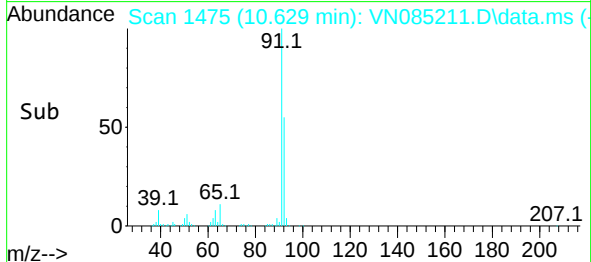
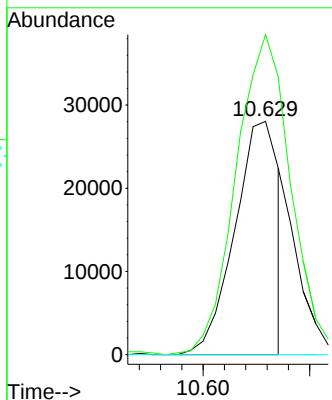


#55
2-Chloroethyl vinyl ether
Concen: 33.107 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.470 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

Instrument :
MSVOA_N
ClientSampleId :

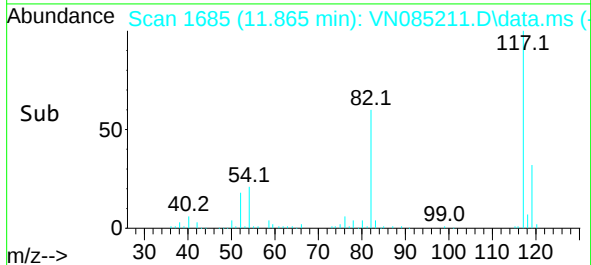
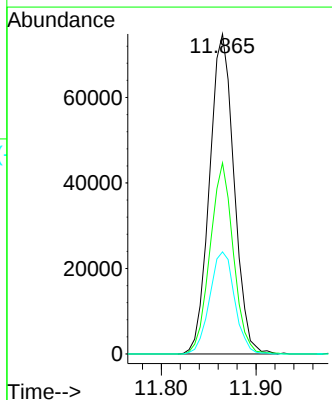
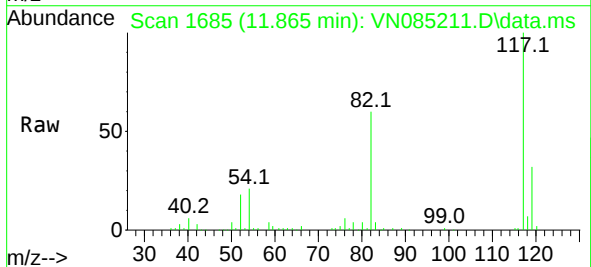


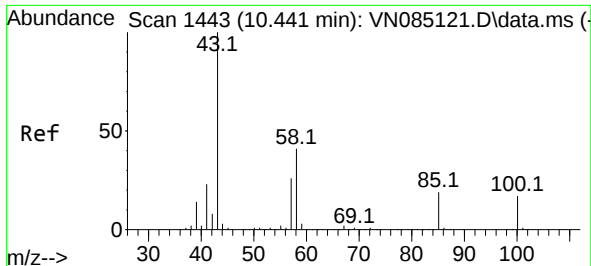
Tgt Ion: 63 Resp: 40474
Ion Ratio Lower Upper
63 100
65 136.1 25.9 38.9#
106 0.0 23.5 35.3#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

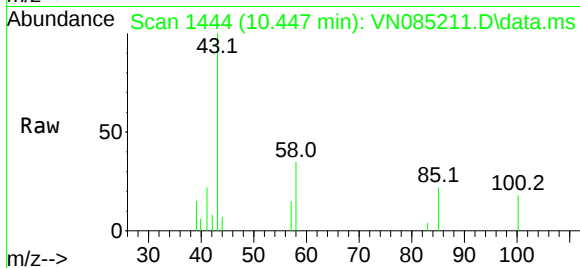
Tgt Ion: 117 Resp: 134362
Ion Ratio Lower Upper
117 100
82 56.7 44.2 66.4
119 32.5 25.4 38.2



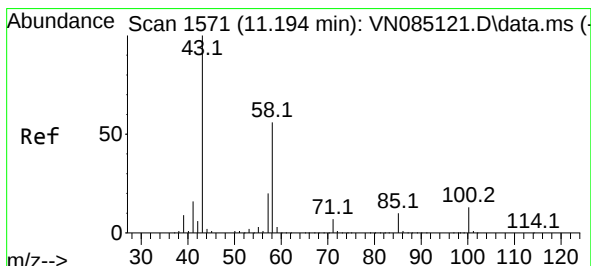
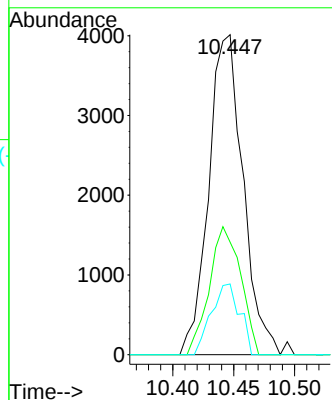
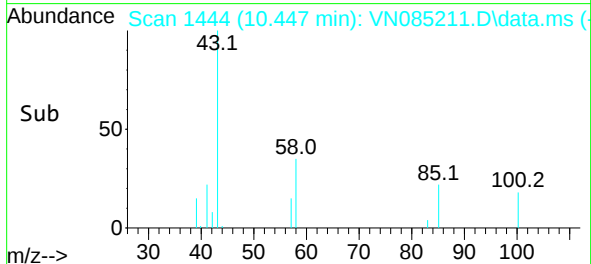


#58
4-Methyl-2-Pentanone
Concen: 3.581 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

Instrument :
MSVOA_N
ClientSampleId :

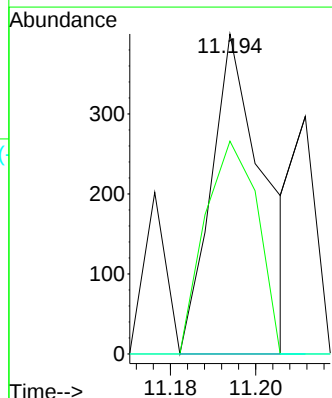
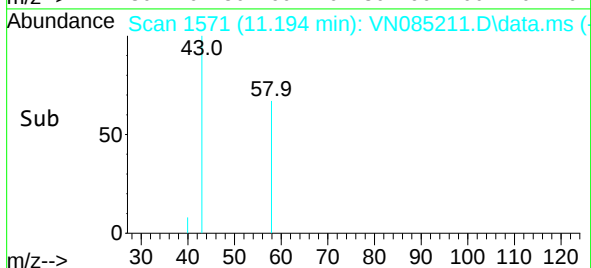
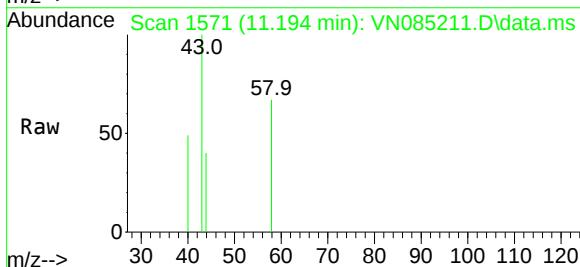


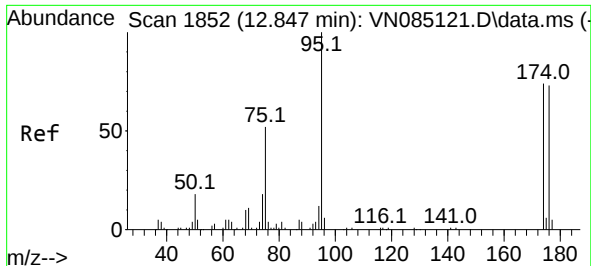
Tgt Ion:	43	Resp:	7853
Ion	Ratio	Lower	Upper
43	100		
58	36.6	31.6	47.4
85	18.3	15.0	22.6



#59
2-Hexanone
Concen: 0.210 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. -0.000 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

Tgt Ion:	43	Resp:	349
Ion	Ratio	Lower	Upper
43	100		
58	65.0	43.6	65.4
57	0.0	15.4	23.0#

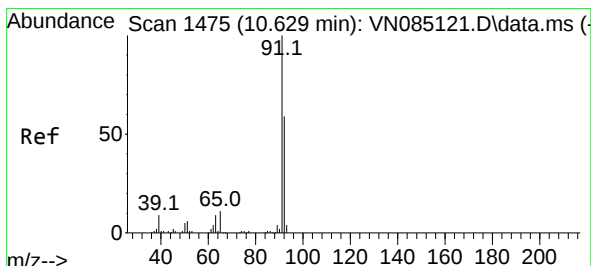
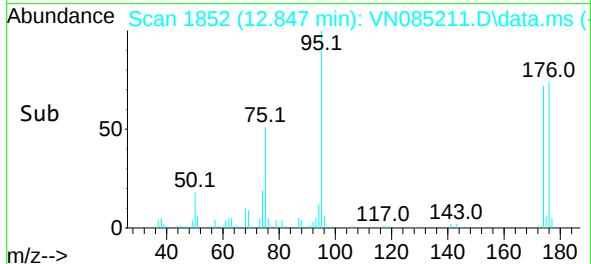
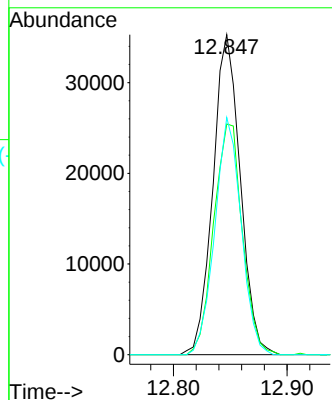
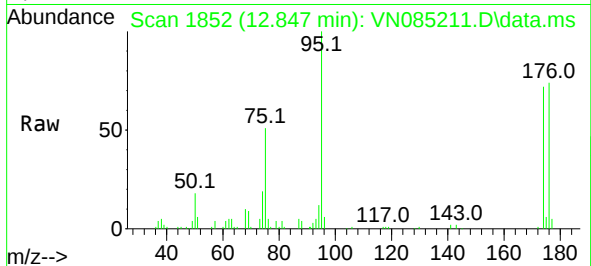




#60
4-Bromofluorobenzene
Concen: 26.580 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

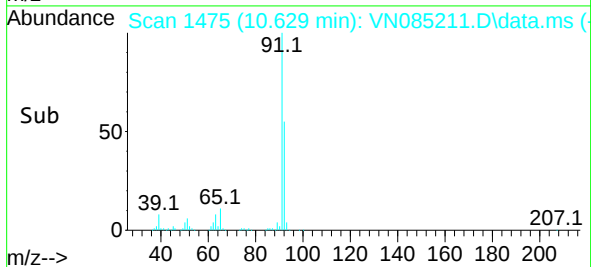
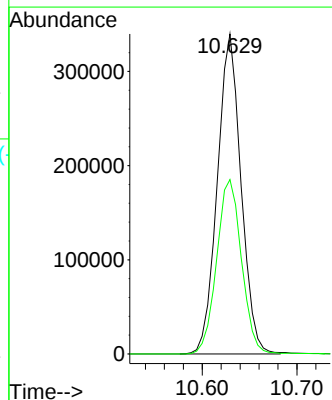
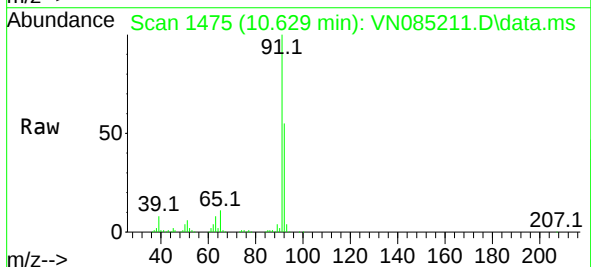
Instrument :
MSVOA_N
ClientSampleId :

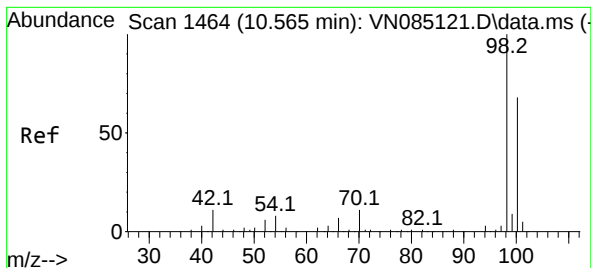
Tgt Ion: 95 Resp: 59091
Ion Ratio Lower Upper
95 100
174 75.3 60.3 90.5
176 71.3 57.4 86.0



#62
Toluene
Concen: 75.514 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

Tgt Ion: 91 Resp: 591725
Ion Ratio Lower Upper
91 100
92 57.0 46.5 69.7





#63

Toluene-d8

Concen: 28.261 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN085211.D

Acq: 16 Dec 2024 11:57

Instrument :

MSVOA_N

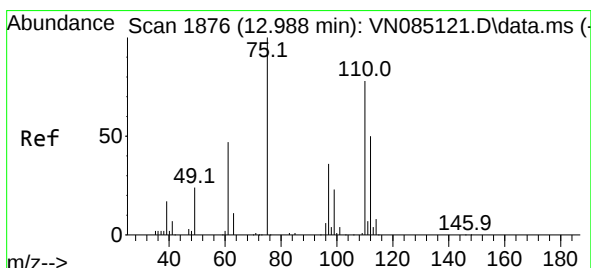
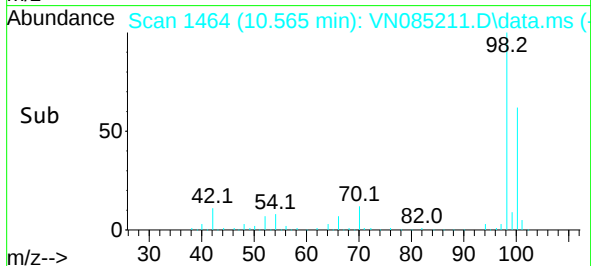
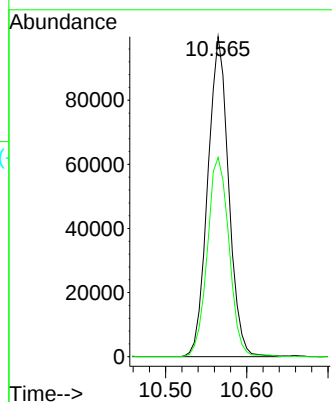
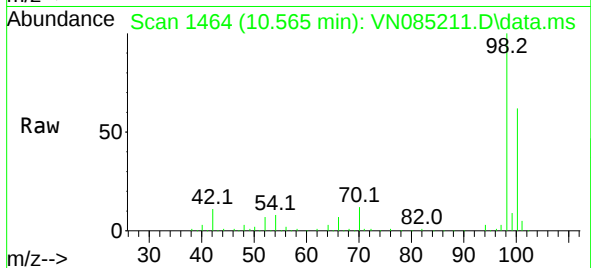
ClientSampleId :

Tgt Ion: 98 Resp: 178120

Ion Ratio Lower Upper

98 100

100 64.3 52.0 78.0



#72

1,2,3-Trichloropropane

Concen: 13.497 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN085211.D

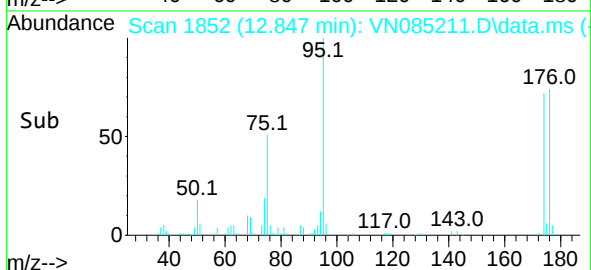
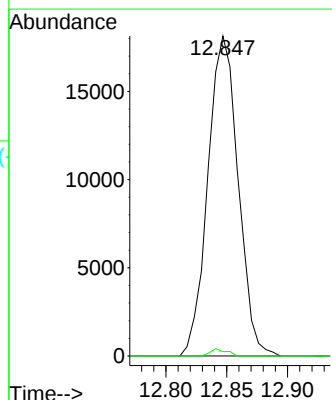
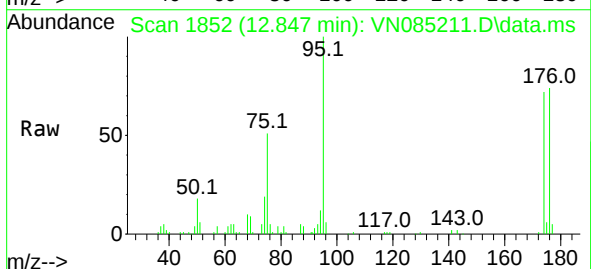
Acq: 16 Dec 2024 11:57

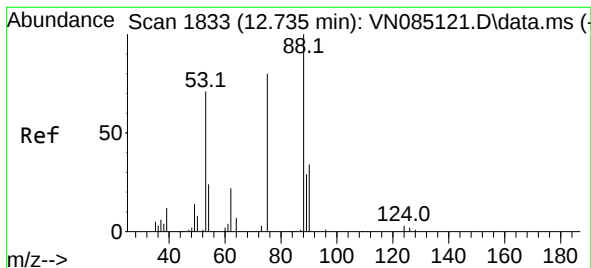
Tgt Ion: 75 Resp: 31437

Ion Ratio Lower Upper

75 100

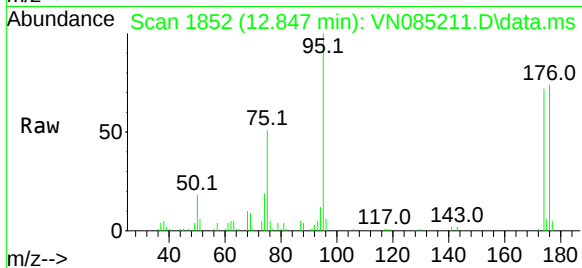
77 1.2 0.0 339.0



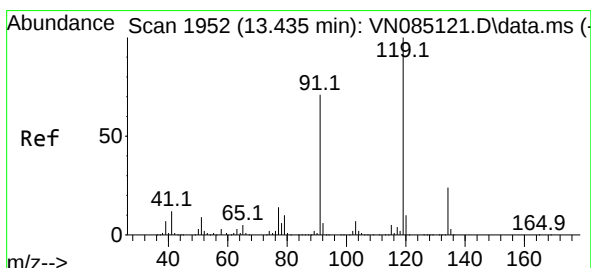
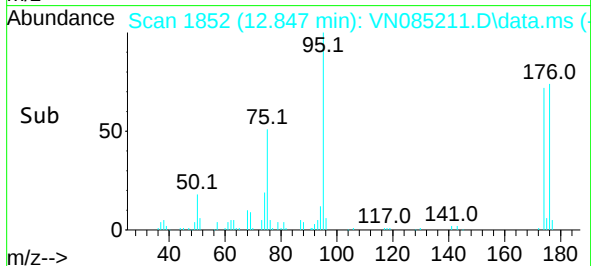
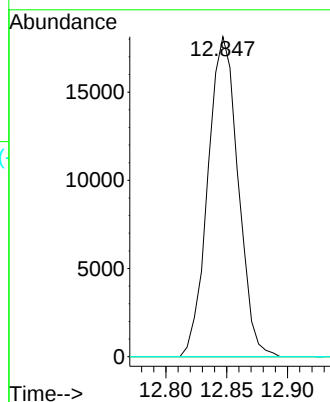


#77
t-1,4-Dichloro-2-butene
Concen: 37.143 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

Instrument :
MSVOA_N
ClientSampleId :

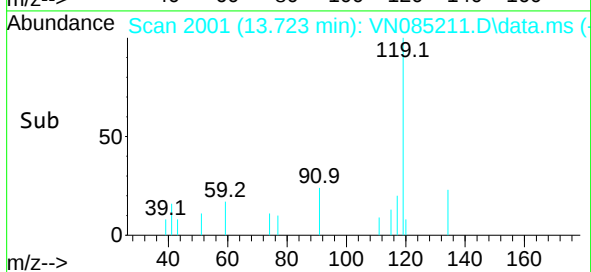
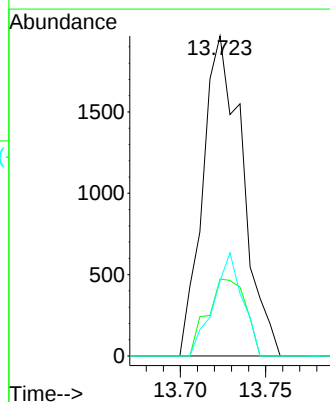
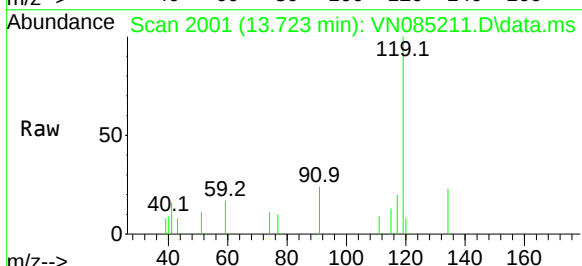


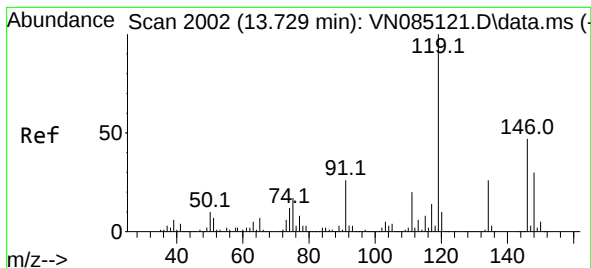
Tgt Ion: 75 Resp: 31437
Ion Ratio Lower Upper
75 100
53 0.0 49.1 147.3#
89 0.0 22.9 68.5#



#79
tert-butylbenzene
Concen: 0.582 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. 0.288 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

Tgt Ion: 119 Resp: 3174
Ion Ratio Lower Upper
119 100
91 23.2 0.0 139.2
134 23.5 0.0 48.0





#82

p-Isopropyltoluene

Concen: 0.494 ug/l

RT: 13.723 min Scan# 2002

Delta R.T. -0.006 min

Lab File: VN085211.D

Acq: 16 Dec 2024 11:57

Instrument :

MSVOA_N

ClientSampleId :

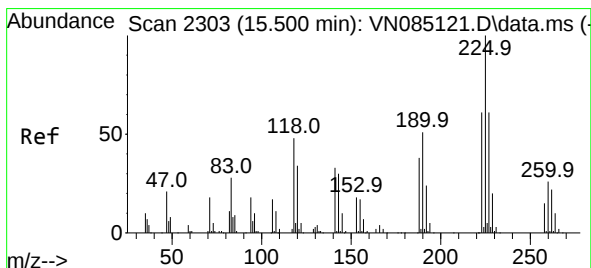
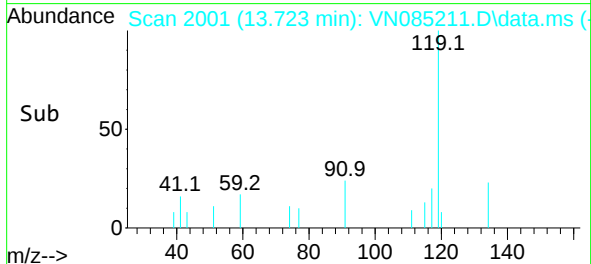
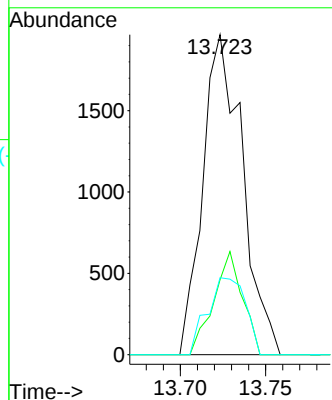
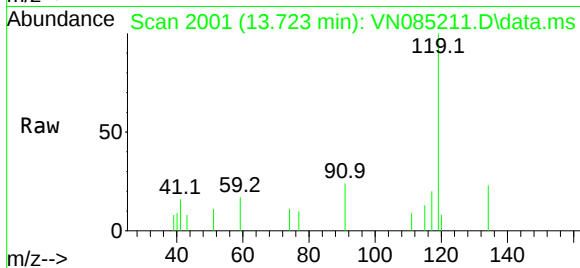
Tgt Ion:119 Resp: 3174

Ion Ratio Lower Upper

119 100

134 23.5 0.0 51.6

91 23.2 0.0 50.4



#90

Hexachlorobutadiene

Concen: 0.225 ug/l

RT: 15.494 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN085211.D

Acq: 16 Dec 2024 11:57

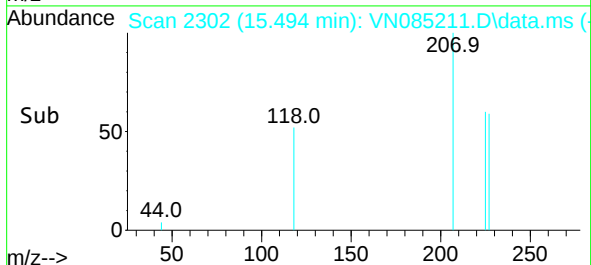
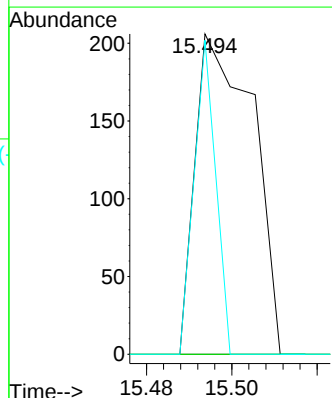
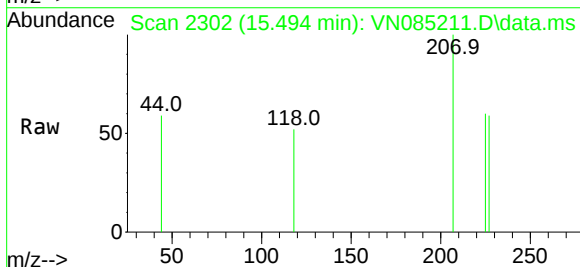
Tgt Ion:225 Resp: 192

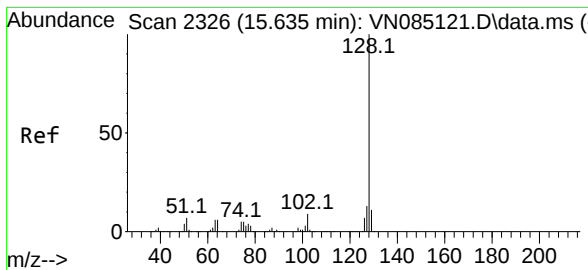
Ion Ratio Lower Upper

225 100

223 0.0 0.0 121.8

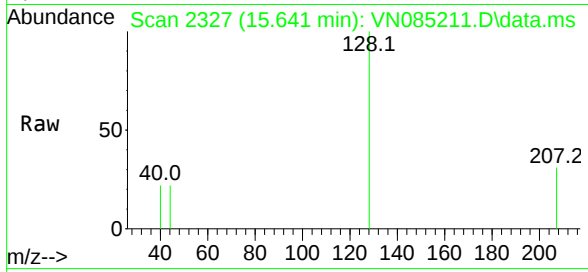
227 0.0 0.0 126.8





#91
Naphthalene
Concen: 0.586 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN085211.D
Acq: 16 Dec 2024 11:57

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	128	Resp:	2995
Ion	Ratio	Lower	Upper
128	100		
127	2.1	11.0	16.4#
129	0.0	8.7	13.1#

