

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN122024\
 Data File : VN085283.D
 Acq On : 20 Dec 2024 15:07
 Operator : JC\MD
 Sample : P5328-02RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 21 02:25:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

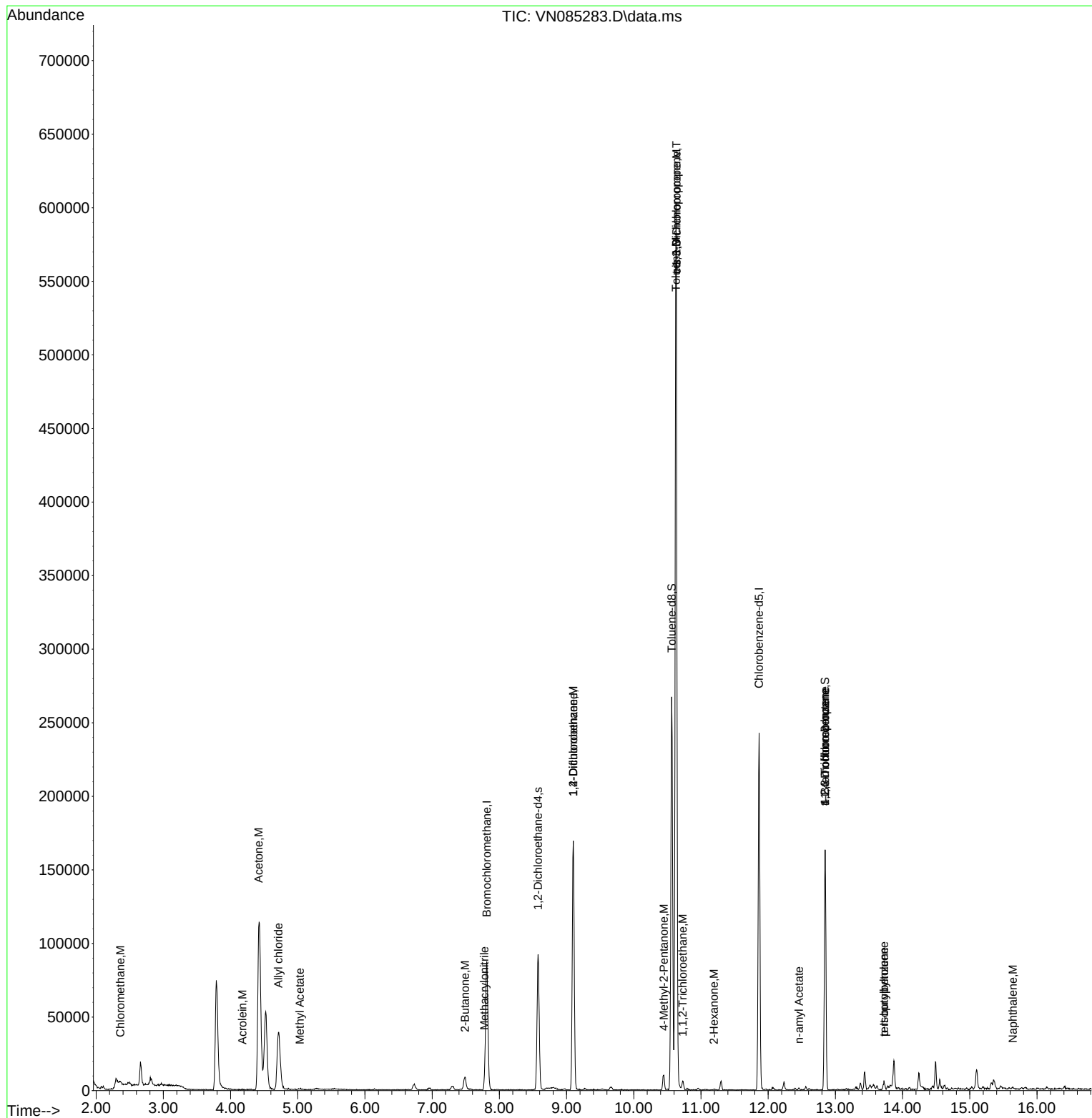
Internal Standards						
1) Bromochloromethane	7.812	128	28685	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	135357	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	132214	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	76041	30.134	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.433%
60) 4-Bromofluorobenzene	12.847	95	52806	24.657	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	82.200%
63) Toluene-d8	10.565	98	176303	27.308	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	91.033%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1097	0.453	ug/l #	80
12) Methyl Acetate	5.030	43	944	0.357	ug/l #	49
13) Acrolein	4.177	56	69	0.292	ug/l #	14
15) Acetone	4.418	58	66019	255.693	ug/l	97
17) Allyl chloride	4.712	41	5675	1.980	ug/l	91
30) 2-Butanone	7.488	43	15074	12.151	ug/l #	83
35) Methacrylonitrile	7.777	41	451	0.328	ug/l #	53
36) 1,2-Dichloroethane	9.100	62	5551	2.066	ug/l #	77
47) n-amyl Acetate	12.459	43	1159	0.319	ug/l #	85
48) t-1,3-Dichloropropene	10.635	75	2970	1.092	ug/l #	1
49) cis-1,3-Dichloropropene	10.635	75	2970	1.016	ug/l #	1
50) 1,1,2-Trichloroethane	10.729	97	4763	2.764	ug/l #	16
58) 4-Methyl-2-Pentanone	10.447	43	7918	2.954	ug/l	94
59) 2-Hexanone	11.194	43	521	0.268	ug/l #	53
62) Toluene	10.629	91	445389	54.833	ug/l	100
72) 1,2,3-Trichloropropane	12.847	75	29553	12.766	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	29553	31.236	ug/l #	6
79) tert-butylbenzene	13.723	119	2787	0.521	ug/l	59
82) p-Isopropyltoluene	13.723	119	2787	0.438	ug/l	95
91) Naphthalene	15.641	128	1610	0.315	ug/l #	78

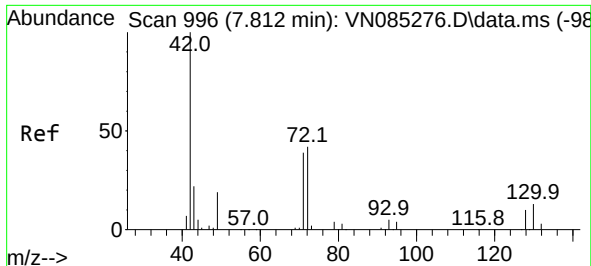
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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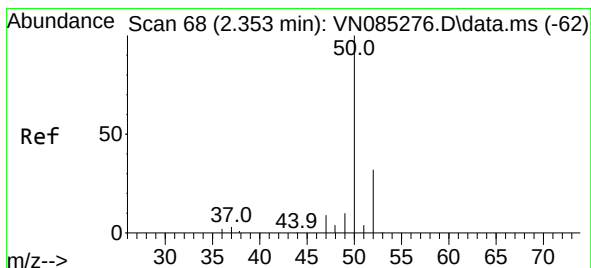
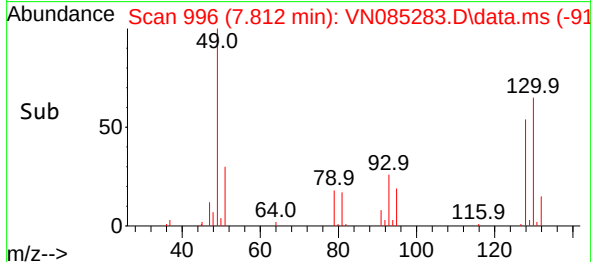
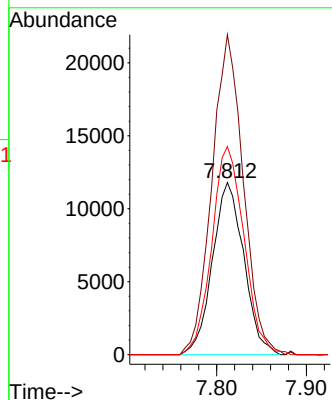
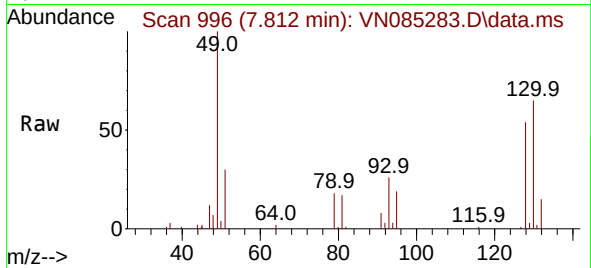




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 996
Delta R.T. -0.000 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

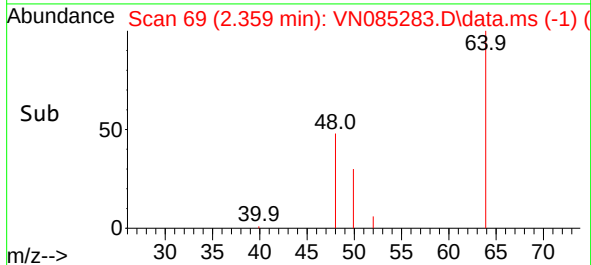
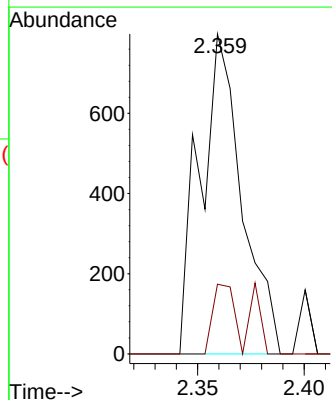
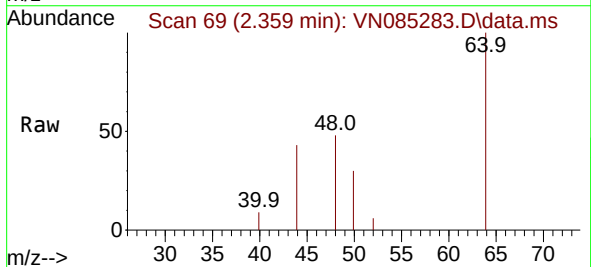
Instrument :
MSVOA_N
ClientSampleId :

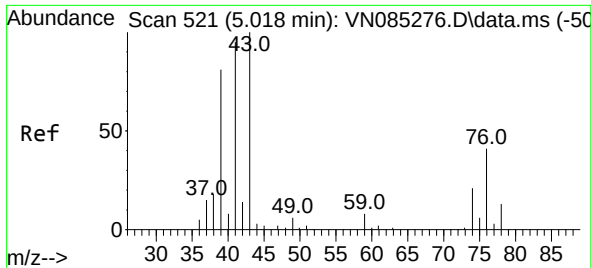
Tgt Ion:128 Resp: 28685
Ion Ratio Lower Upper
128 100
49 185.5 0.0 497.8
130 124.1 0.0 328.5



#3
Chloromethane
Concen: 0.453 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

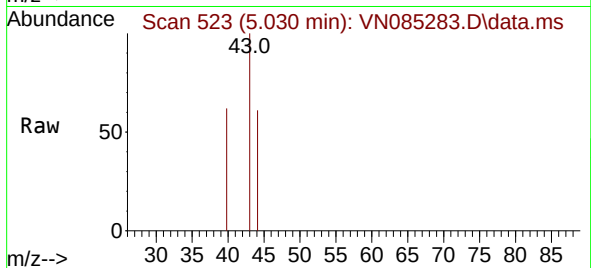
Tgt Ion: 50 Resp: 1097
Ion Ratio Lower Upper
50 100
52 21.8 26.5 39.7#



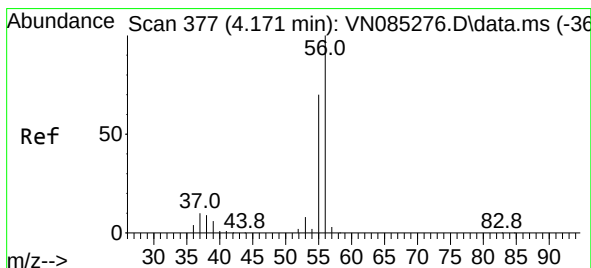
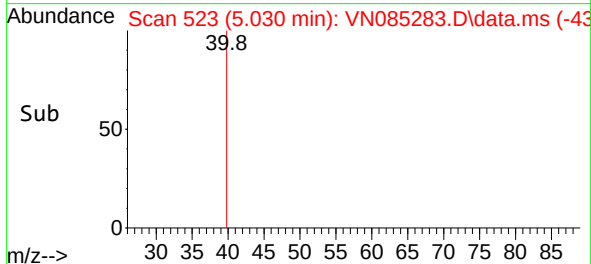
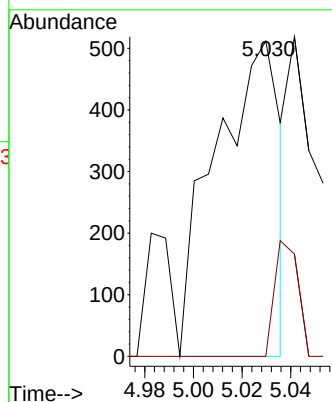


#12
Methyl Acetate
Concen: 0.357 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

Instrument :
MSVOA_N
ClientSampleId :

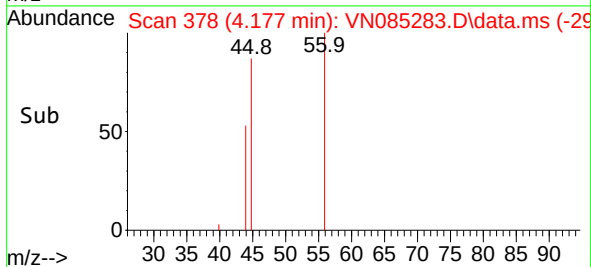
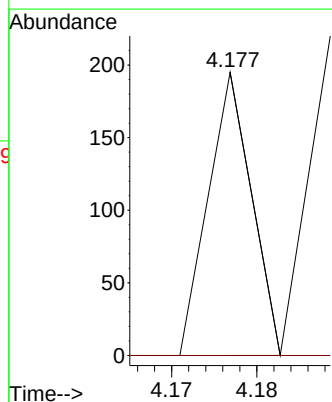
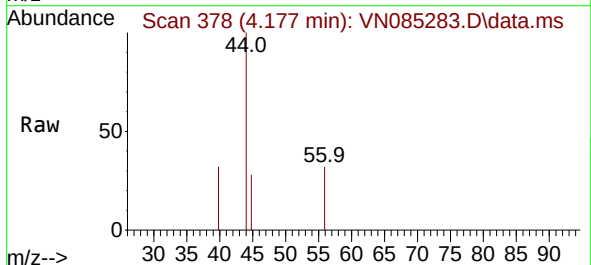


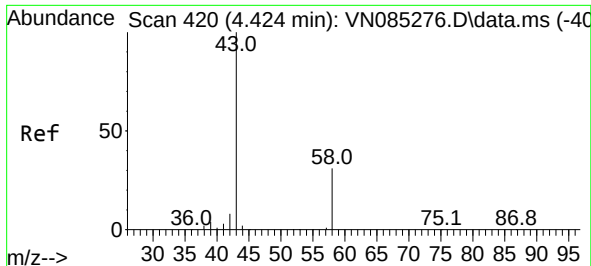
Tgt Ion: 43 Resp: 944
Ion Ratio Lower Upper
43 100
74 0.0 20.5 30.7#



#13
Acrolein
Concen: 0.292 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.006 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

Tgt Ion: 56 Resp: 69
Ion Ratio Lower Upper
56 100
55 0.0 56.8 85.2#

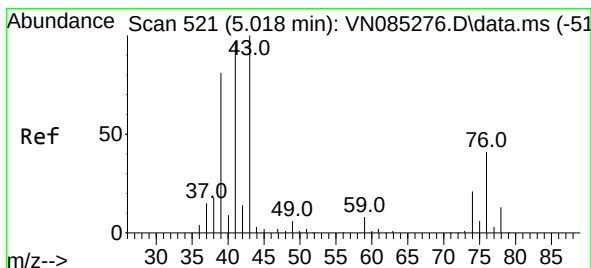
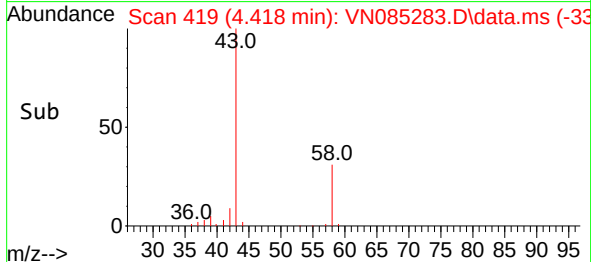
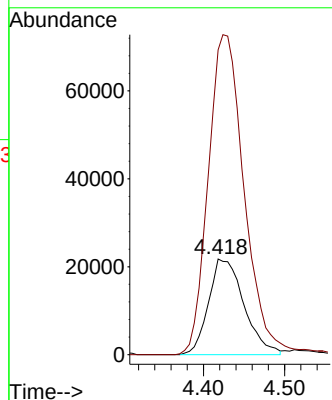
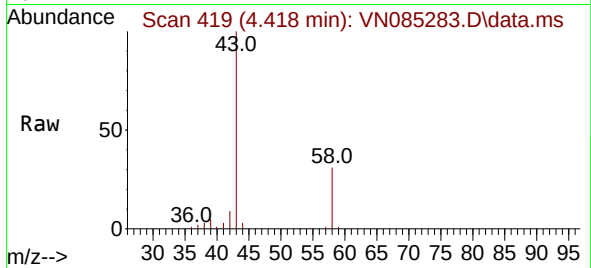




#15
Acetone
Concen: 255.693 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.012 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

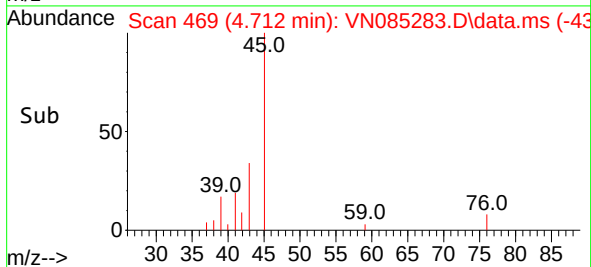
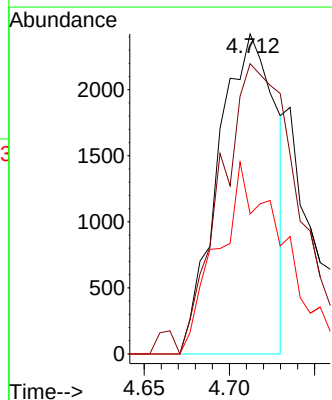
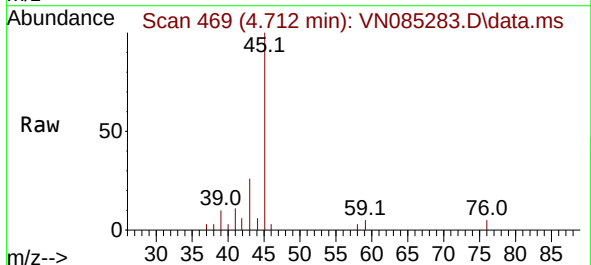
Instrument :
MSVOA_N
ClientSampleId :

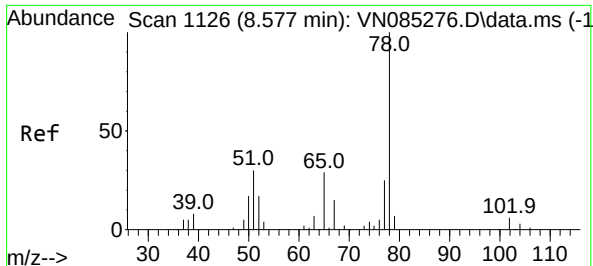
Tgt Ion: 58 Resp: 66019
Ion Ratio Lower Upper
58 100
43 317.6 258.8 388.2



#17
Allyl chloride
Concen: 1.980 ug/l
RT: 4.712 min Scan# 469
Delta R.T. -0.312 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

Tgt Ion: 41 Resp: 5675
Ion Ratio Lower Upper
41 100
39 90.7 41.3 124.1
76 43.7 19.5 58.5





#27

1,2-Dichloroethane-d4

Concen: 30.134 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN085283.D

Acq: 20 Dec 2024 15:07

Instrument :

MSVOA_N

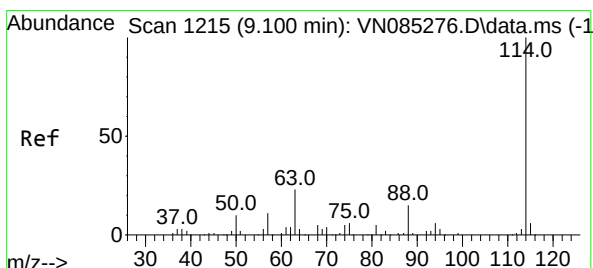
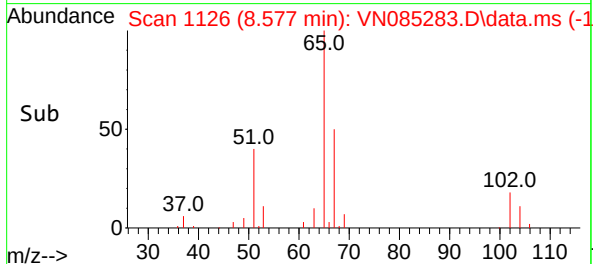
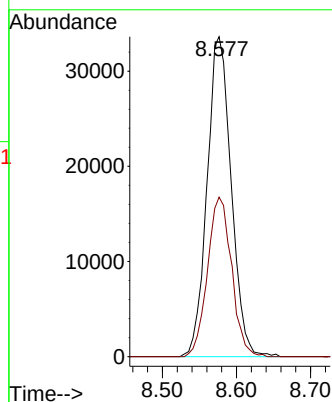
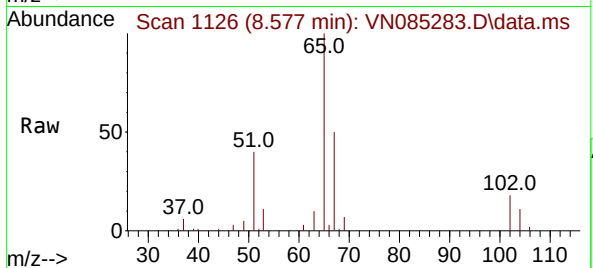
ClientSampleId :

Tgt Ion: 65 Resp: 76041

Ion Ratio Lower Upper

65 100

67 49.8 42.0 63.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN085283.D

Acq: 20 Dec 2024 15:07

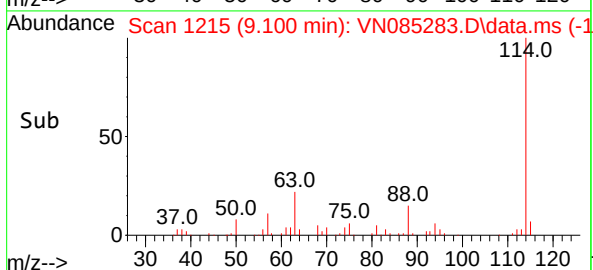
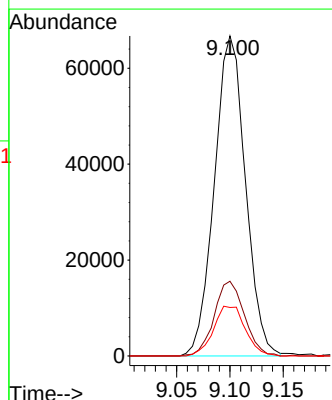
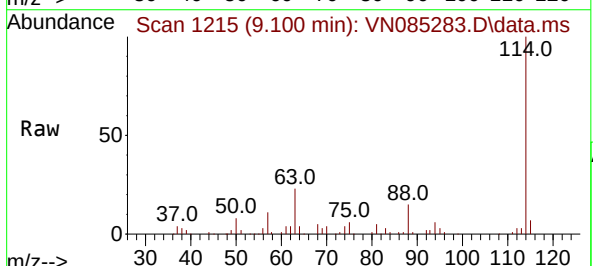
Tgt Ion: 114 Resp: 135357

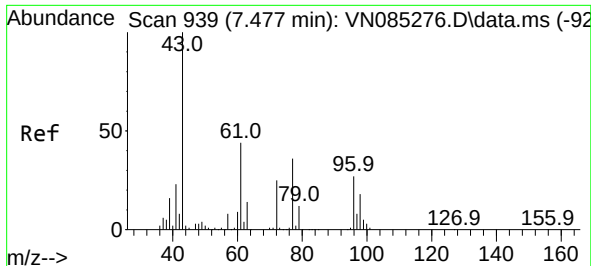
Ion Ratio Lower Upper

114 100

63 22.6 18.0 27.0

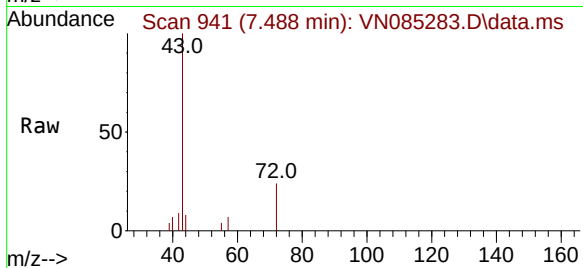
88 15.9 12.9 19.3



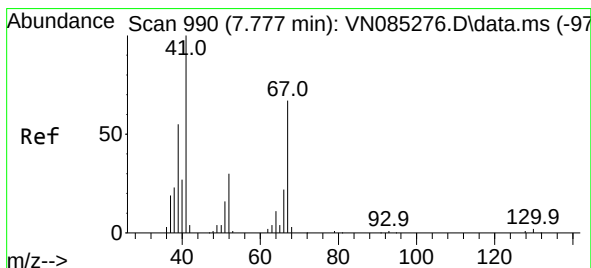
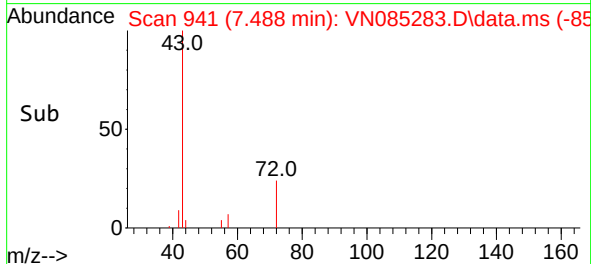
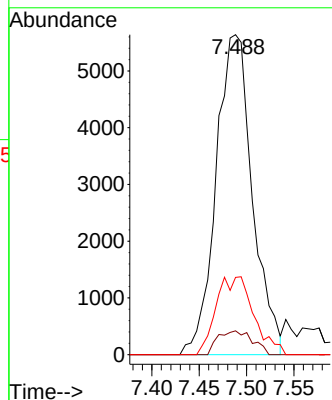


#30
2-Butanone
Concen: 12.151 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

Instrument :
MSVOA_N
ClientSampleId :

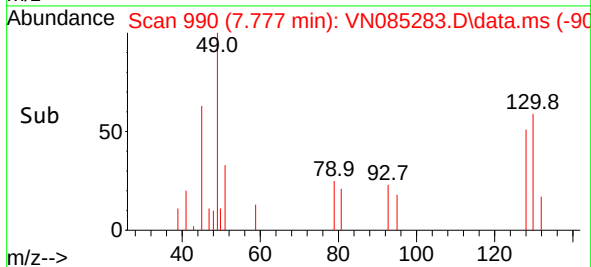
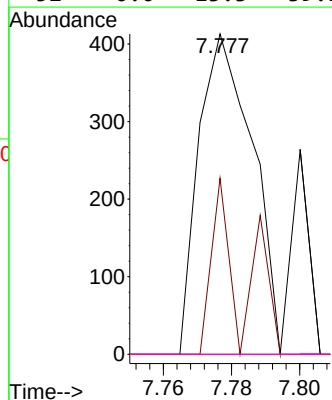
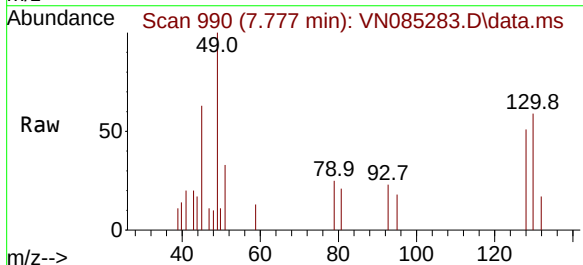


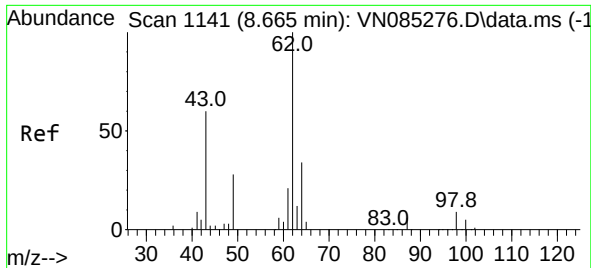
Tgt Ion: 43 Resp: 15074
Ion Ratio Lower Upper
43 100
57 7.1 6.2 9.2
72 14.2 19.9 29.9#



#35
Methacrylonitrile
Concen: 0.328 ug/l
RT: 7.777 min Scan# 990
Delta R.T. 0.006 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

Tgt Ion: 41 Resp: 451
Ion Ratio Lower Upper
41 100
39 55.0 26.7 80.0
67 0.0 32.5 97.5#
52 0.0 13.3 39.9#





#36

1,2-Dichloroethane

Concen: 2.066 ug/l

RT: 9.100 min Scan# 1141

Delta R.T. 0.435 min

Lab File: VN085283.D

Acq: 20 Dec 2024 15:07

Instrument :

MSVOA_N

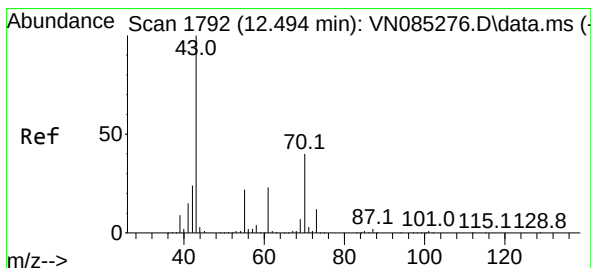
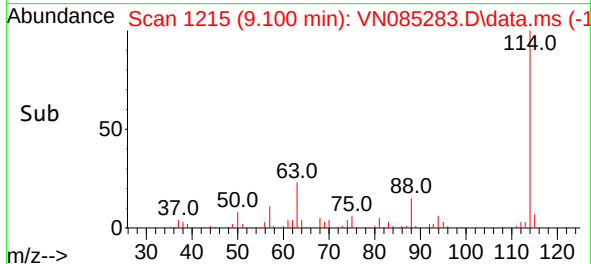
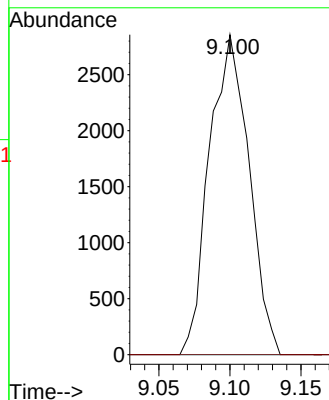
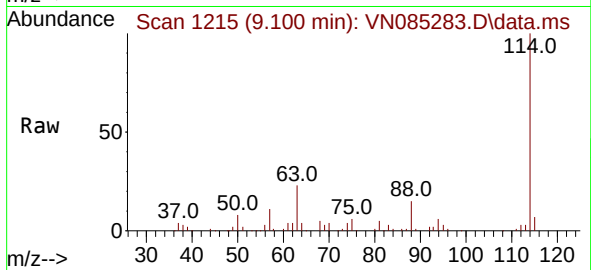
ClientSampleId :

Tgt Ion: 62 Resp: 5551

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#



#47

n-amy1 Acetate

Concen: 0.319 ug/l

RT: 12.459 min Scan# 1786

Delta R.T. -0.035 min

Lab File: VN085283.D

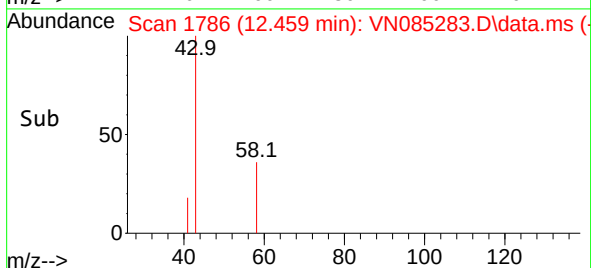
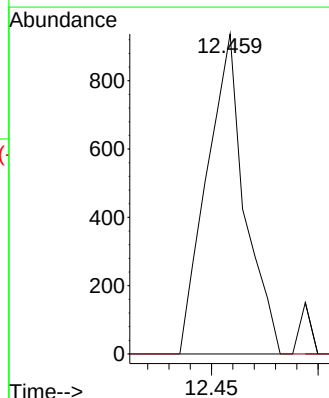
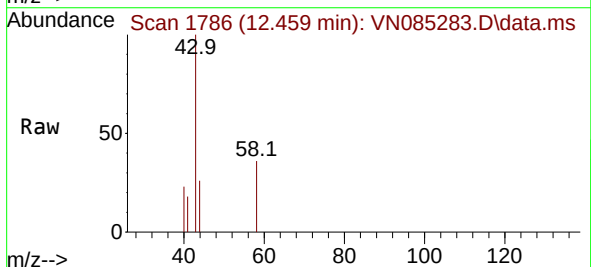
Acq: 20 Dec 2024 15:07

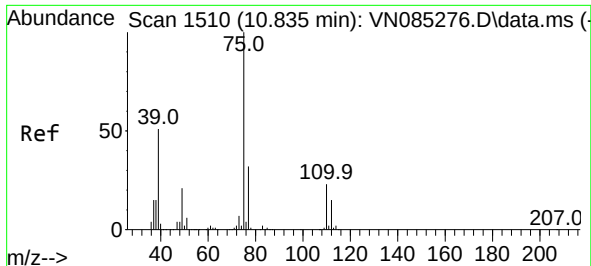
Tgt Ion: 43 Resp: 1159

Ion Ratio Lower Upper

43 100

55 18.6 21.3 31.9#

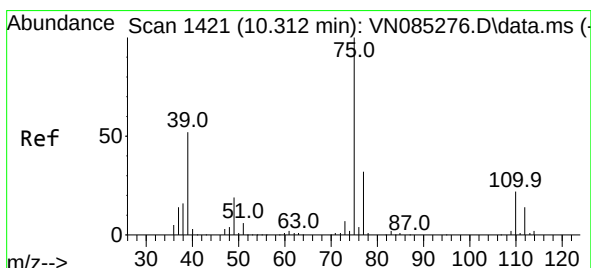
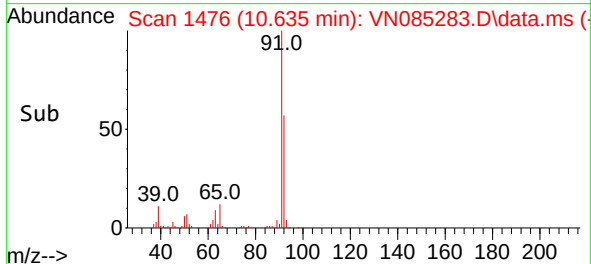
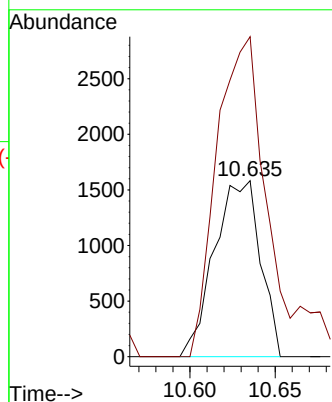
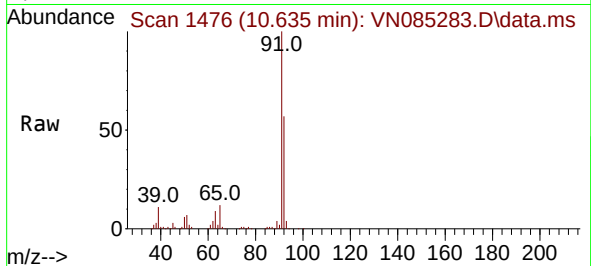




#48
t-1,3-Dichloropropene
Concen: 1.092 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.194 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

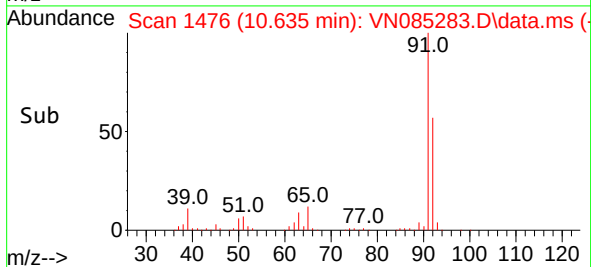
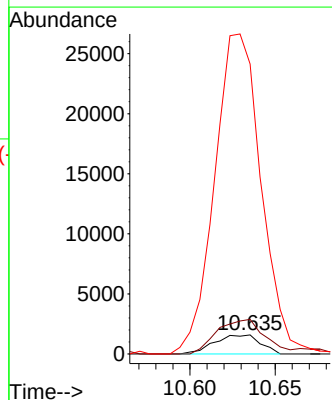
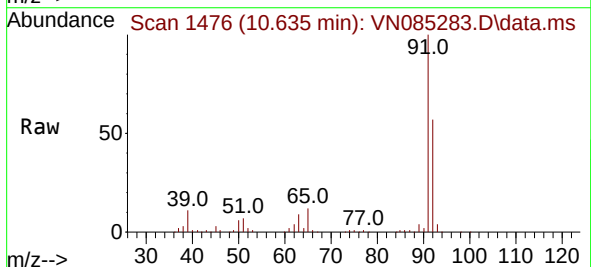
Instrument :
MSVOA_N
ClientSampleId :

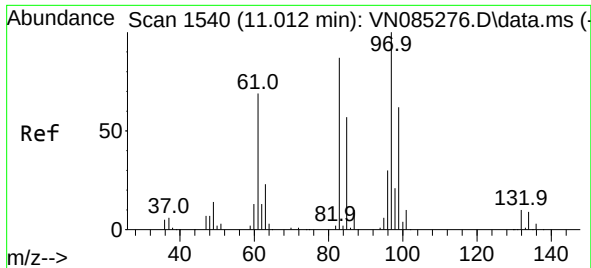
Tgt Ion: 75 Resp: 2970
Ion Ratio Lower Upper
75 100
77 181.8 23.8 35.6#



#49
cis-1,3-Dichloropropene
Concen: 1.016 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.324 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

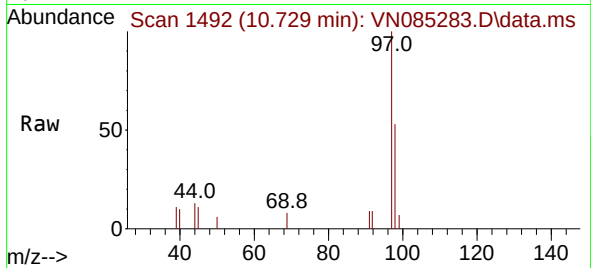
Tgt Ion: 75 Resp: 2970
Ion Ratio Lower Upper
75 100
77 181.8 26.6 40.0#
39 1489.9 41.9 62.9#



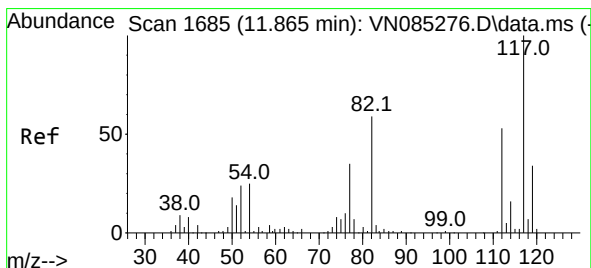
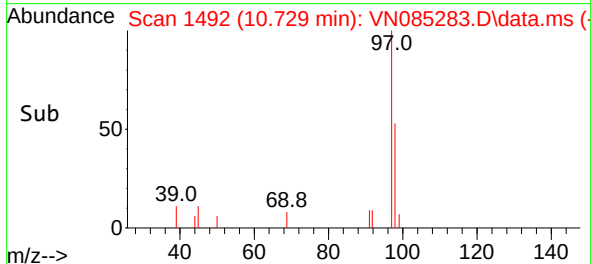
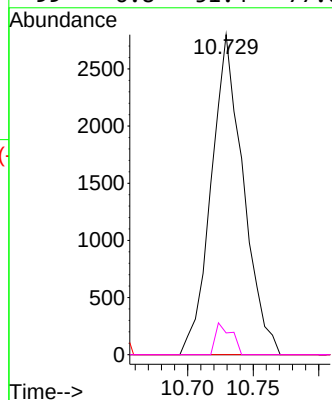


#50
1,1,2-Trichloroethane
Concen: 2.764 ug/l
RT: 10.729 min Scan# 1492
Delta R.T. -0.282 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

Instrument :
MSVOA_N
ClientSampleId :

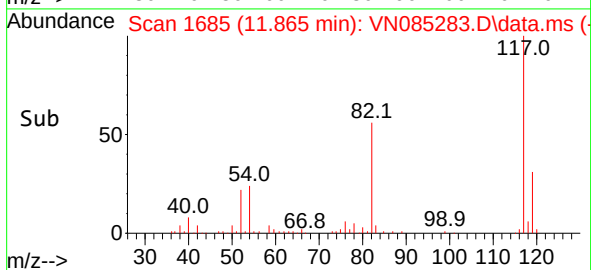
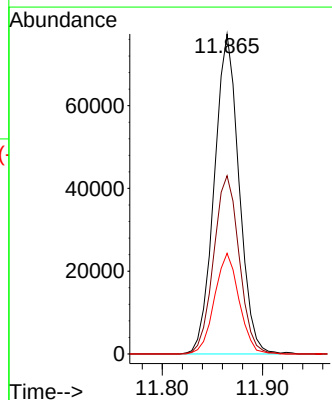
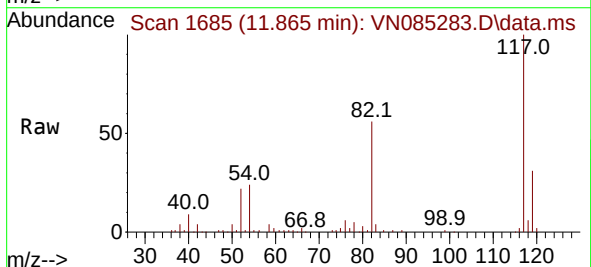


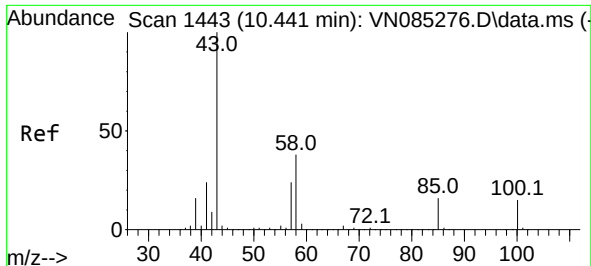
Tgt Ion:	97	Resp:	4763
Ion	Ratio	Lower	Upper
97	100		
83	0.0	72.2	108.2#
85	0.0	46.6	70.0#
99	6.8	51.4	77.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

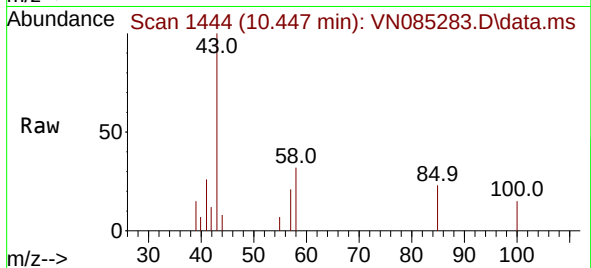
Tgt Ion:	117	Resp:	132214
Ion	Ratio	Lower	Upper
117	100		
82	57.6	47.4	71.0
119	31.3	25.3	37.9



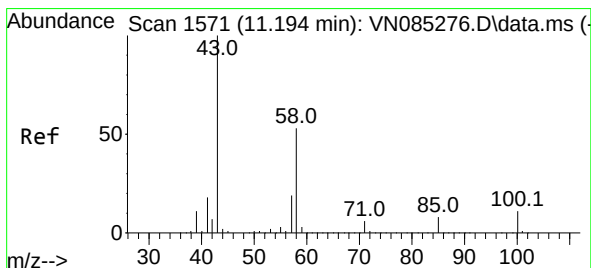
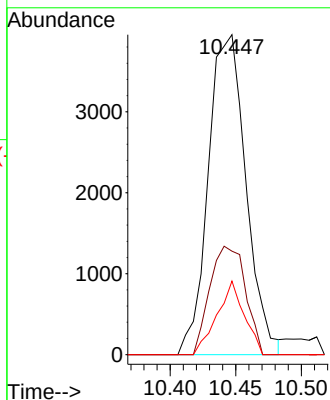
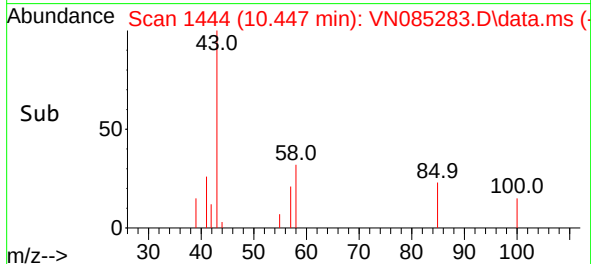


#58
4-Methyl-2-Pentanone
Concen: 2.954 ug/l
RT: 10.447 min Scan# 1443
Delta R.T. 0.006 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

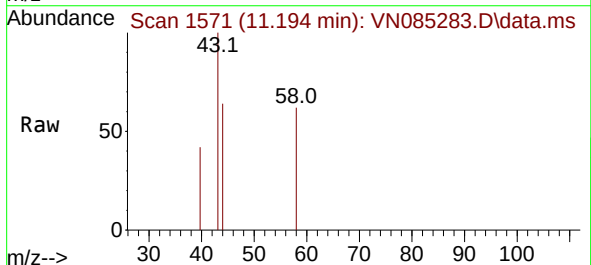
Instrument :
MSVOA_N
ClientSampleId :



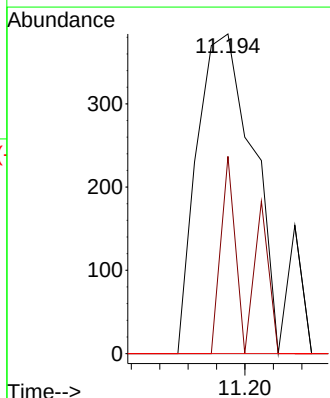
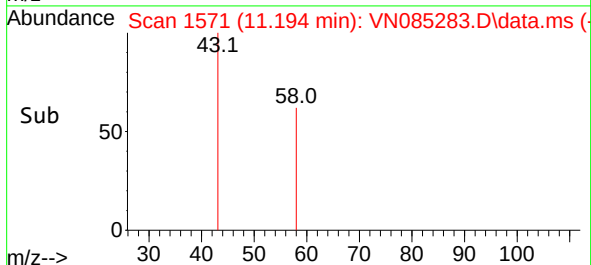
Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.0	29.2	43.8
85	16.6	12.8	19.2

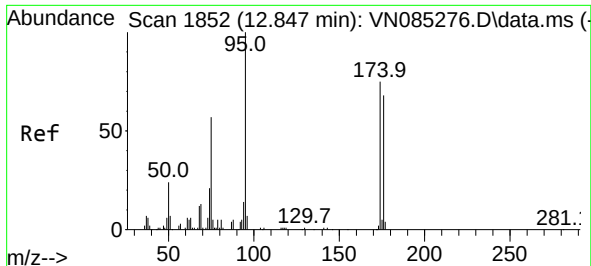


#59
2-Hexanone
Concen: 0.268 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.000 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07



Tgt Ion	Ratio	Lower	Upper
43	100		
58	16.1	40.2	60.4#
57	0.0	14.2	21.4#

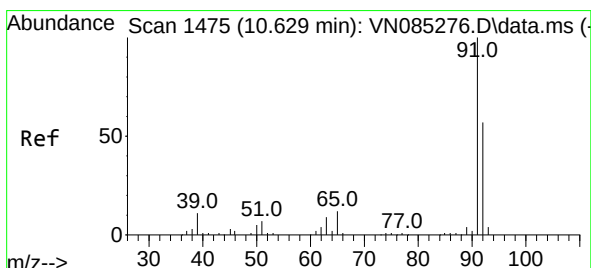
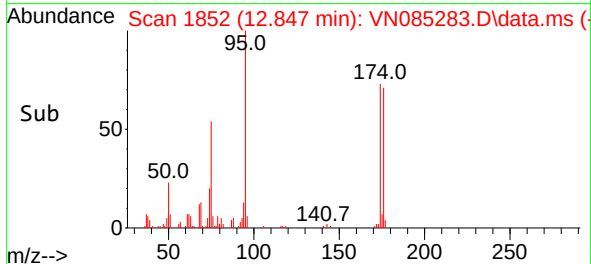
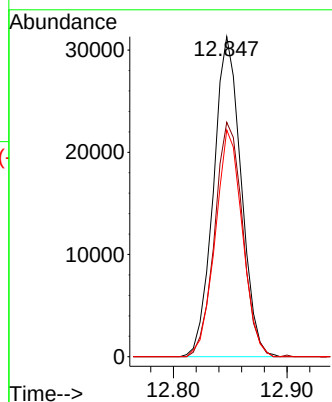
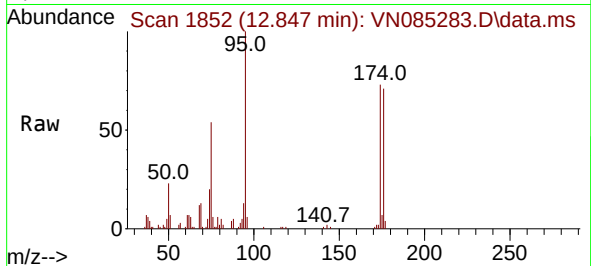




#60
4-Bromofluorobenzene
Concen: 24.657 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

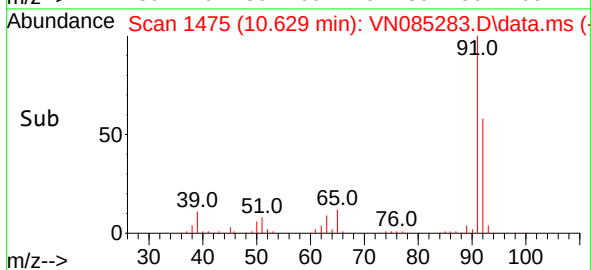
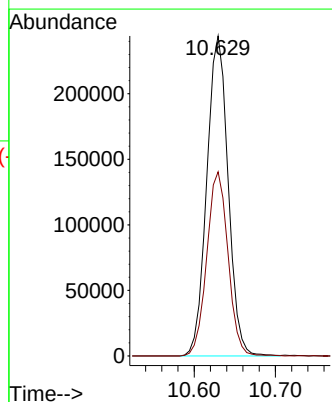
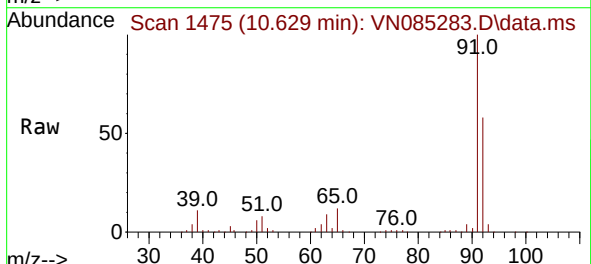
Instrument :
MSVOA_N
ClientSampleId :

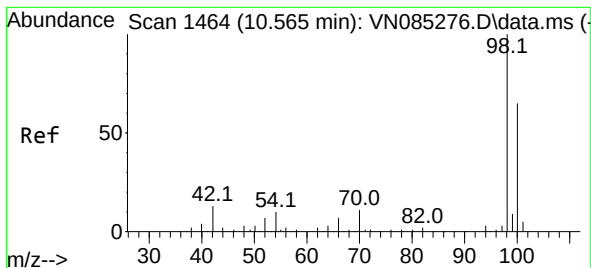
Tgt Ion: 95 Resp: 52806
Ion Ratio Lower Upper
95 100
174 73.9 57.8 86.8
176 69.9 57.1 85.7



#62
Toluene
Concen: 54.833 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

Tgt Ion: 91 Resp: 445389
Ion Ratio Lower Upper
91 100
92 57.2 45.9 68.9





#63

Toluene-d8

Concen: 27.308 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN085283.D

Acq: 20 Dec 2024 15:07

Instrument :

MSVOA_N

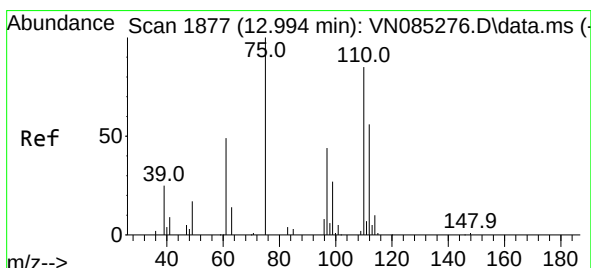
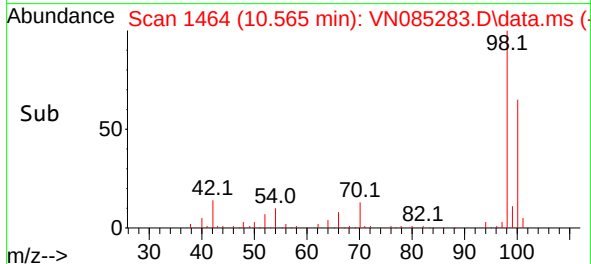
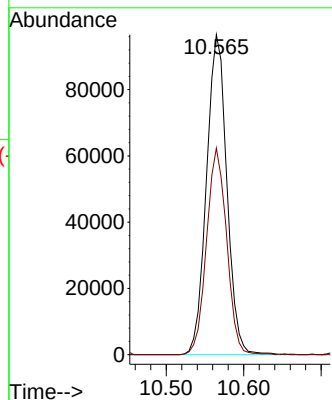
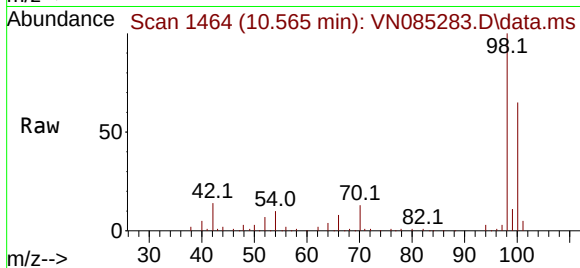
ClientSampleId :

Tgt Ion: 98 Resp: 176303

Ion Ratio Lower Upper

98 100

100 63.6 50.8 76.2



#72

1,2,3-Trichloropropane

Concen: 12.766 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN085283.D

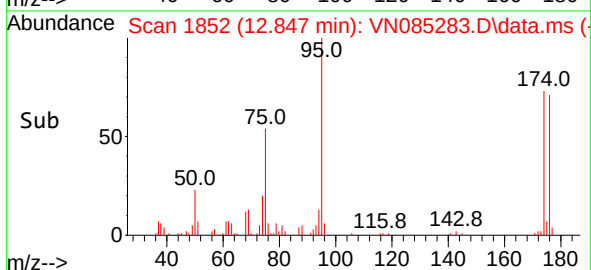
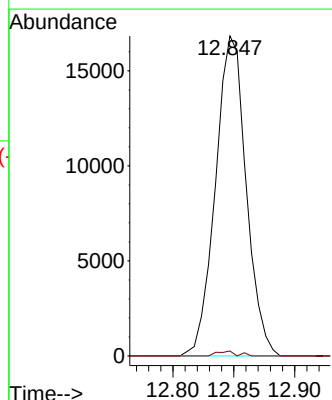
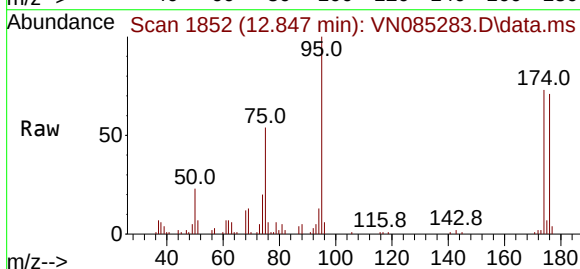
Acq: 20 Dec 2024 15:07

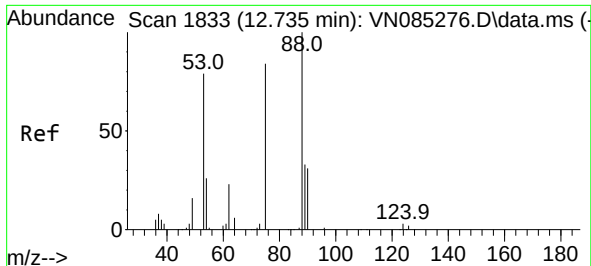
Tgt Ion: 75 Resp: 29553

Ion Ratio Lower Upper

75 100

77 0.8 0.0 407.2





#77

t-1,4-Dichloro-2-butene

Concen: 31.236 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN085283.D

Acq: 20 Dec 2024 15:07

Instrument :

MSVOA_N

ClientSampleId :

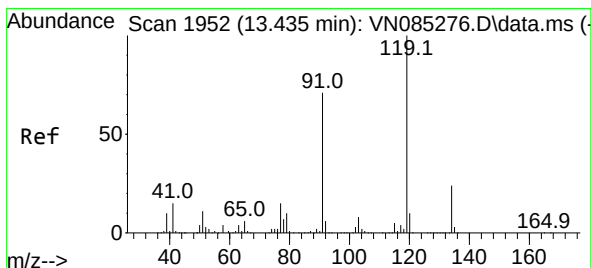
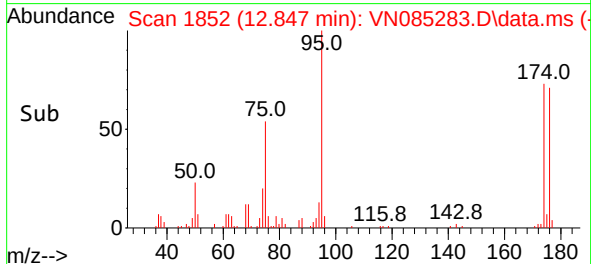
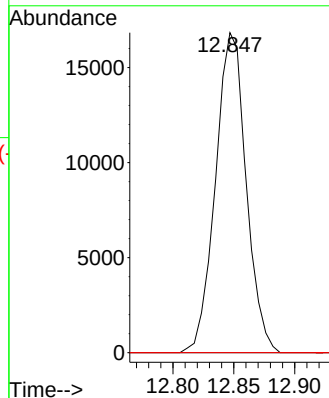
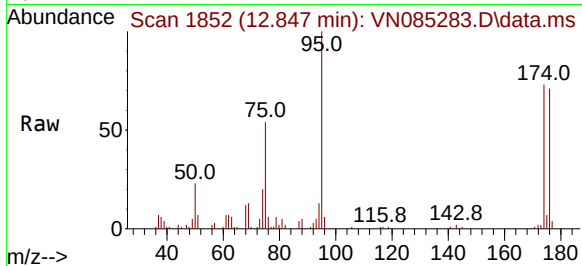
Tgt Ion: 75 Resp: 29553

Ion Ratio Lower Upper

75 100

53 0.0 54.9 164.5#

89 0.0 22.8 68.3#



#79

tert-butylbenzene

Concen: 0.521 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. 0.288 min

Lab File: VN085283.D

Acq: 20 Dec 2024 15:07

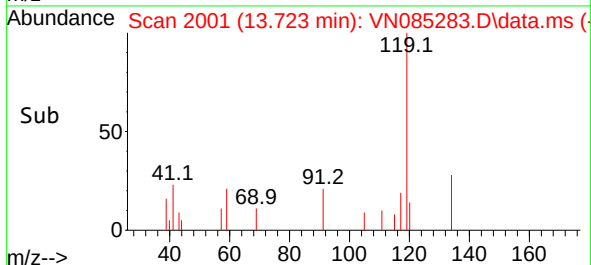
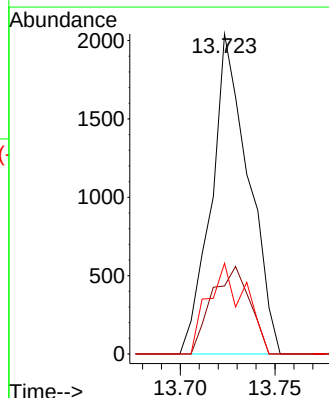
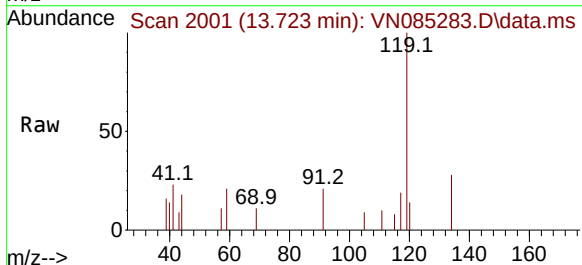
Tgt Ion: 119 Resp: 2787

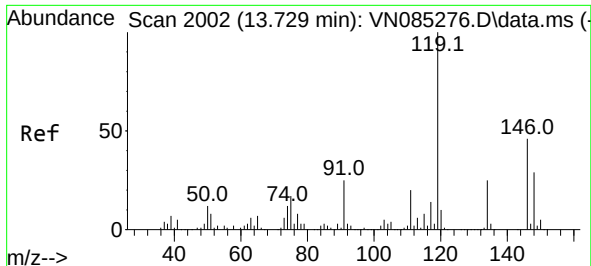
Ion Ratio Lower Upper

119 100

91 27.9 0.0 142.0

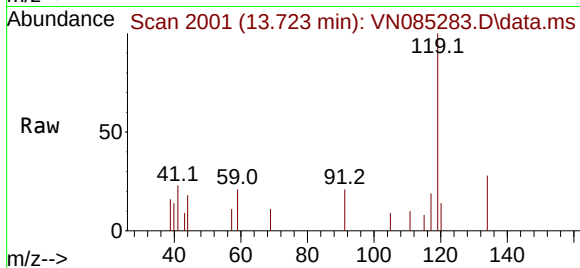
134 28.5 0.0 49.0



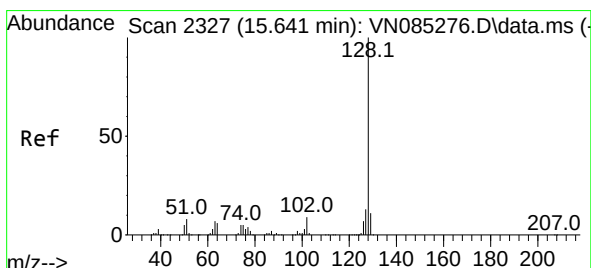
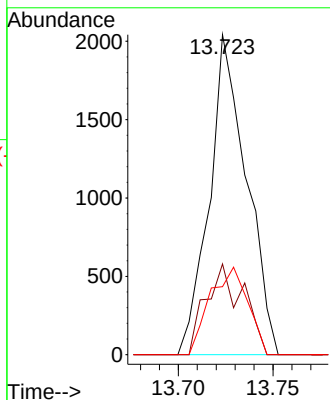
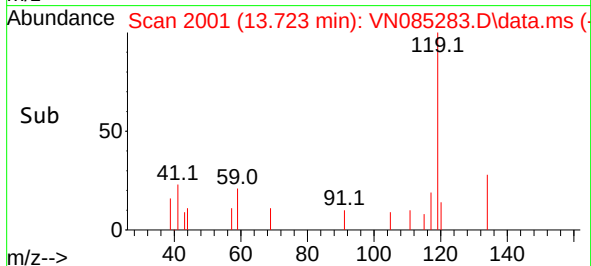


#82
p-Isopropyltoluene
Concen: 0.438 ug/l
RT: 13.723 min Scan# 2001
Delta R.T. -0.006 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07

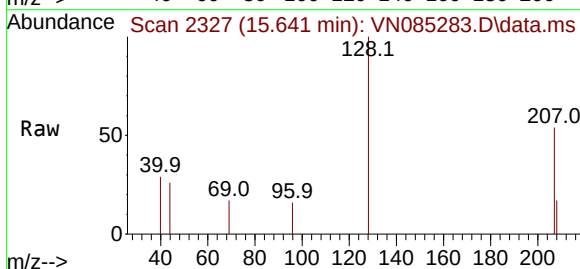
Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:	119	Resp:	2787
Ion	Ratio	Lower	Upper
119	100		
134	28.5	0.0	51.4
91	27.9	0.0	51.4



#91
Naphthalene
Concen: 0.315 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.000 min
Lab File: VN085283.D
Acq: 20 Dec 2024 15:07



Tgt Ion:	128	Resp:	1610
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	7.5	8.6	13.0#

