

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN110722\
 Data File : VN075194.D
 Acq On : 07 Nov 2022 17:46
 Operator : JC\MD
 Sample : N5479-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TUL-ROS-1104

Quant Time: Nov 08 01:12:15 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102622W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 27 09:48:49 2022
 Response via : Initial Calibration

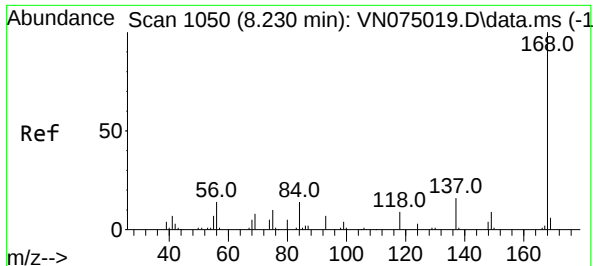
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.229	168	99959	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	205127	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	186055	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	73932	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	79436	58.980	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	117.960%
35) Dibromofluoromethane	8.177	113	62268	51.709	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.420%
50) Toluene-d8	10.571	98	243796	52.183	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.360%
62) 4-Bromofluorobenzene	12.853	95	81422	49.612	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	99.220%
Target Compounds						
					Qvalue	
5) Bromomethane	2.918	94	55	Below Cal	#	5
6) Chloroethane	3.089	64	313	0.222	ug/l #	45
11) Tert butyl alcohol	5.500	59	2703	8.606	ug/l #	72
16) Acetone	4.447	43	9468	16.602	ug/l	96
18) Methyl Acetate	5.053	43	4117	2.210	ug/l	98
20) Methylene Chloride	5.283	84	4778	3.758	ug/l	85
25) 2-Butanone	7.500	43	1419	1.582	ug/l	100
29) Tetrahydrofuran	7.859	42	455	0.785	ug/l #	26
31) Cyclohexane	8.229	56	2184	1.090	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	9223	4.947	ug/l #	50
37) Ethyl Acetate	7.571	43	17793	8.703	ug/l	98
38) Carbon Tetrachloride	8.235	117	11012	5.370	ug/l #	17
42) 1,2-Dichloroethane	8.671	62	1209	0.582	ug/l #	75
43) Isopropyl Acetate	8.665	43	615230	193.995	ug/l #	53
45) 1,2-Dichloropropane	9.741	63	902	0.664	ug/l #	42
48) Methyl methacrylate	9.747	41	72767	50.020	ug/l #	34
51) 4-Methyl-2-Pentanone	10.359	43	54749	26.753	ug/l #	44
53) t-1,3-Dichloropropene	10.723	75	617	0.285	ug/l #	76
54) cis-1,3-Dichloropropene	10.365	75	29656	12.925	ug/l #	64
56) Ethyl methacrylate	10.988	69	804	0.348	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	3922	1.557	ug/l #	42
59) 2-Hexanone	11.176	43	59193	38.110	ug/l #	21
71) Bromoform	12.853	173	498	0.451	ug/l #	1
74) N-amyl acetate	12.494	43	587	0.267	ug/l #	38
76) 1,2,3-Trichloropropane	12.853	75	42712	27.209	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	42712	69.845	ug/l #	10
90) Hexachloroethane	14.329	117	332	0.354	ug/l #	19
95) Naphthalene	15.641	128	1070	0.254	ug/l #	69

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

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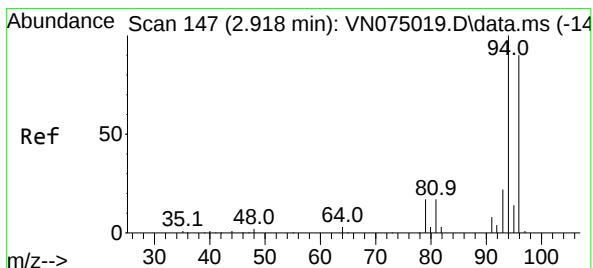
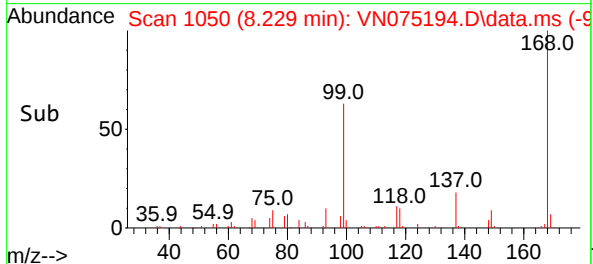
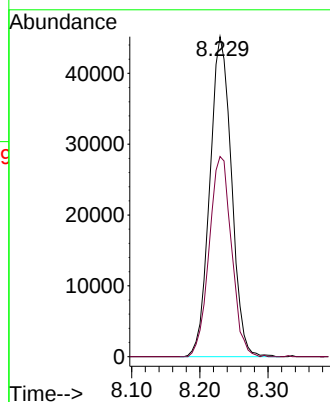
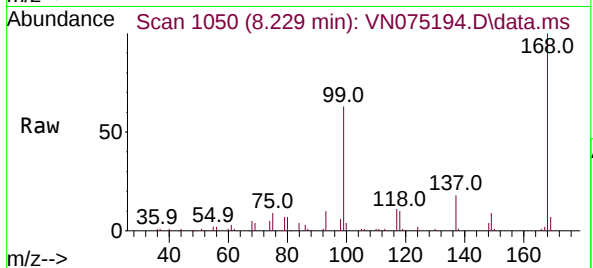




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 10
Delta R.T. -0.001 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

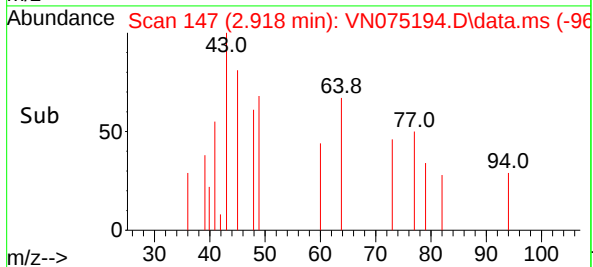
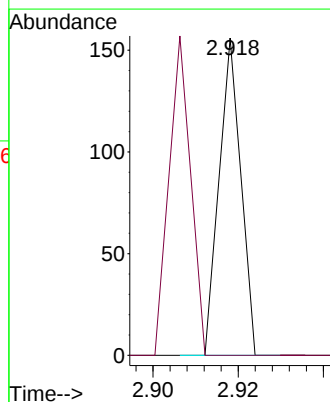
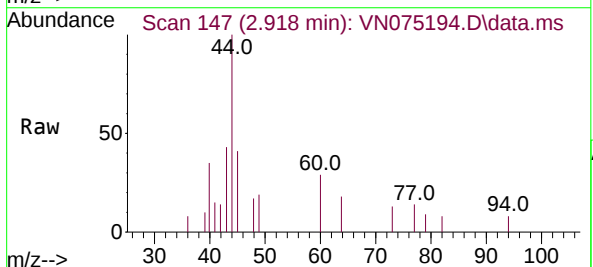
Instrument :
MSVOA_N
ClientSampleId :
TUL-ROS-1104

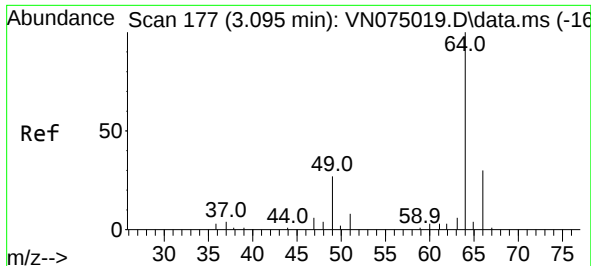
Tgt Ion:168 Resp: 99959
Ion Ratio Lower Upper
168 100
99 62.6 51.6 77.4



#5
Bromomethane
Concen: Below Cal
RT: 2.918 min Scan# 147
Delta R.T. 0.000 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

Tgt Ion: 94 Resp: 55
Ion Ratio Lower Upper
94 100
96 0.0 71.8 107.6#

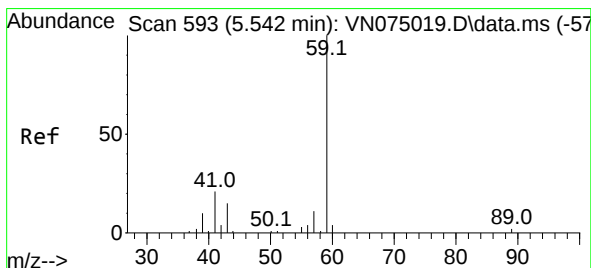
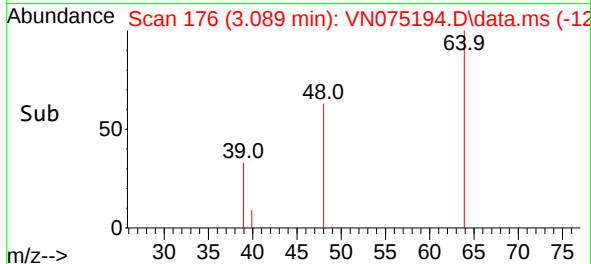
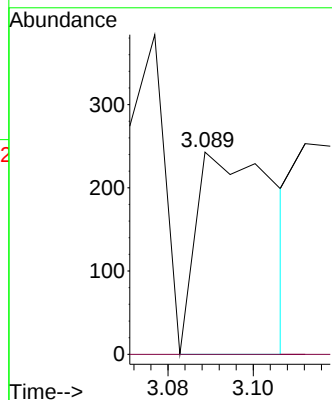
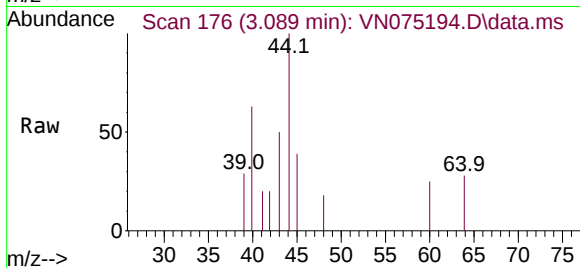




#6
Chloroethane
Concen: 0.222 ug/l
RT: 3.089 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

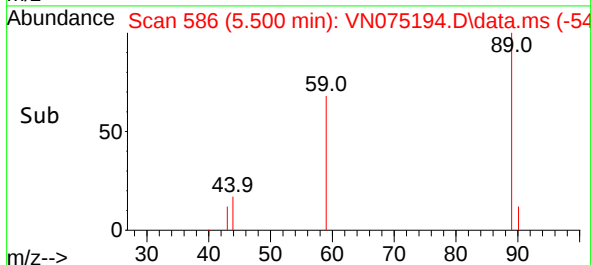
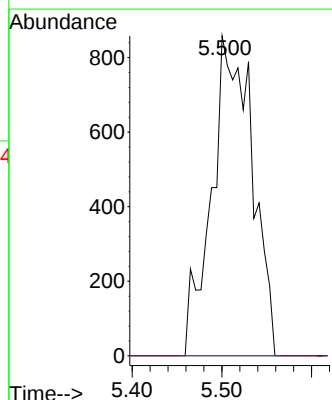
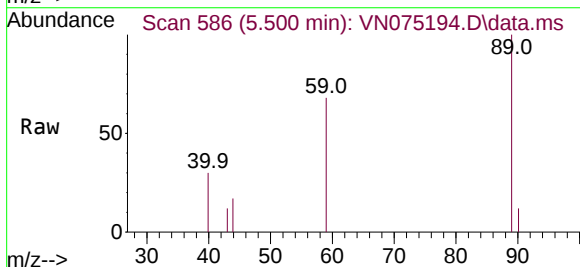
Instrument :
MSVOA_N
ClientSampleId :
TUL-ROS-1104

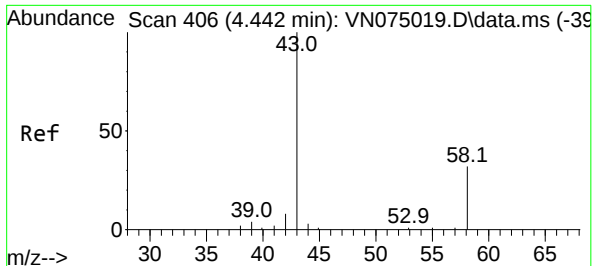
Tgt Ion: 64 Resp: 313
Ion Ratio Lower Upper
64 100
66 0.0 23.8 35.8#



#11
Tert butyl alcohol
Concen: 8.606 ug/l
RT: 5.500 min Scan# 586
Delta R.T. -0.042 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

Tgt Ion: 59 Resp: 2703
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

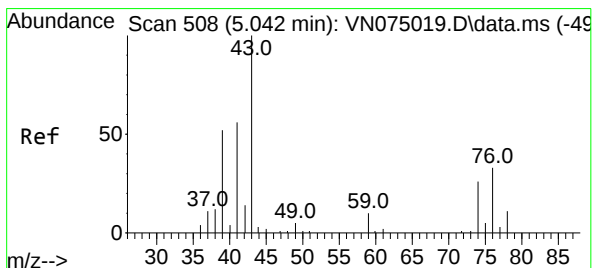
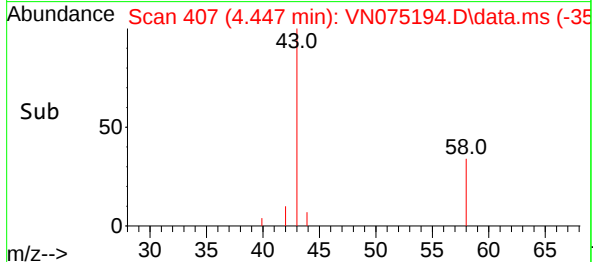
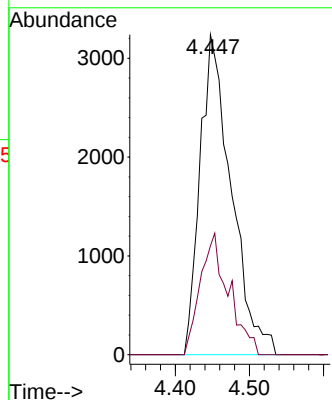
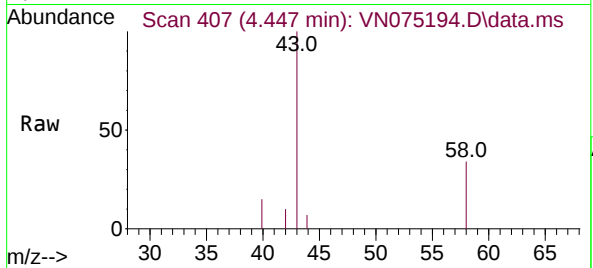




#16
Acetone
Concen: 16.602 ug/l
RT: 4.447 min Scan# 406
Delta R.T. 0.005 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

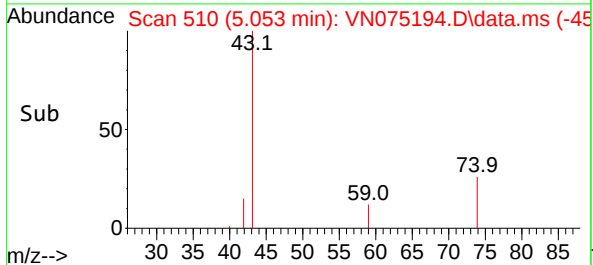
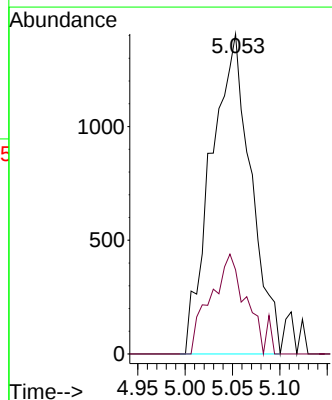
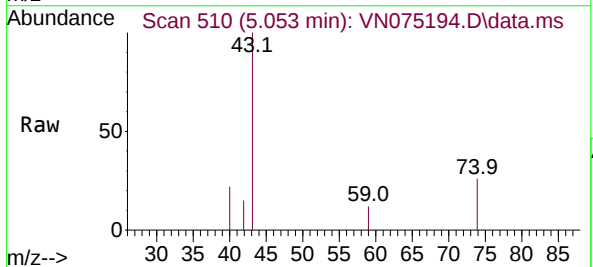
Instrument :
MSVOA_N
ClientSampleId :
TUL-ROS-1104

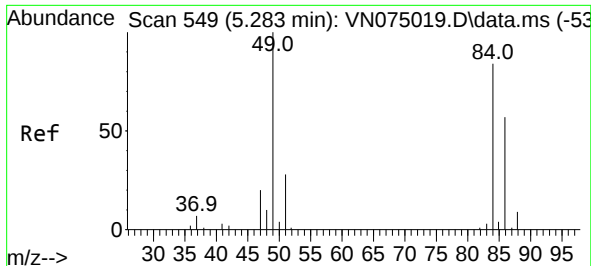
Tgt Ion: 43 Resp: 9468
Ion Ratio Lower Upper
43 100
58 34.0 25.5 38.3



#18
Methyl Acetate
Concen: 2.210 ug/l
RT: 5.053 min Scan# 510
Delta R.T. 0.011 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

Tgt Ion: 43 Resp: 4117
Ion Ratio Lower Upper
43 100
74 28.6 22.0 33.0



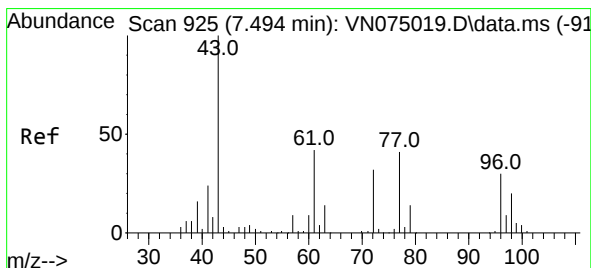
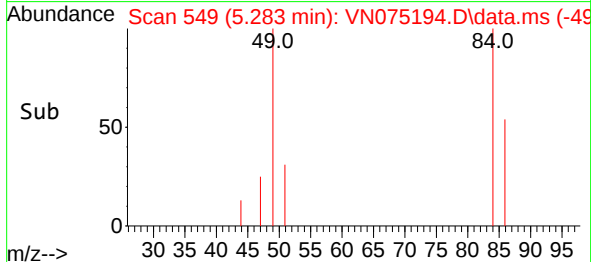
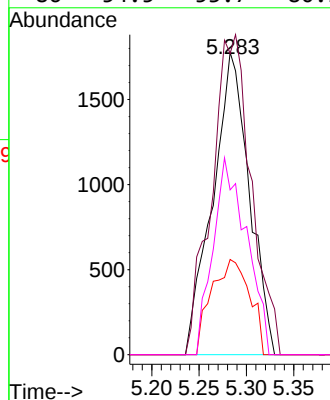
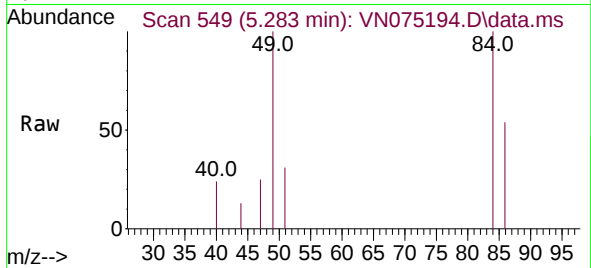


#20
Methylene Chloride
Concen: 3.758 ug/l
RT: 5.283 min Scan# 549
Delta R.T. -0.000 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

Instrument :
MSVOA_N
ClientSampleId :
TUL-ROS-1104

Tgt Ion: 84 Resp: 4778

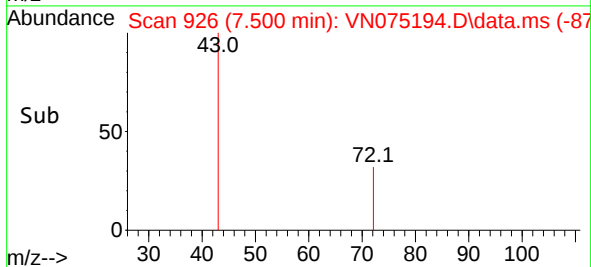
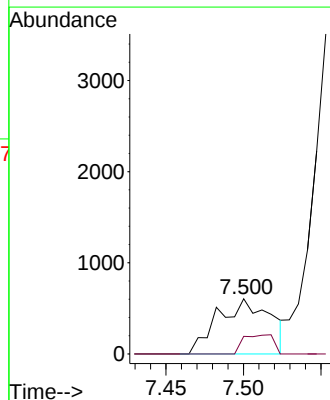
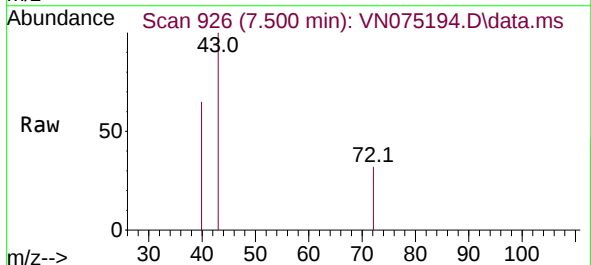
Ion	Ratio	Lower	Upper
84	100		
49	99.6	94.9	142.3
51	31.5	26.8	40.2
86	54.5	53.7	80.5

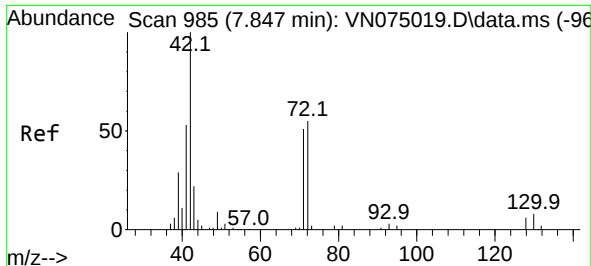


#25
2-Butanone
Concen: 1.582 ug/l
RT: 7.500 min Scan# 926
Delta R.T. 0.006 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

Tgt Ion: 43 Resp: 1419

Ion	Ratio	Lower	Upper
43	100		
72	31.8	25.5	38.3





#29

Tetrahydrofuran

Concen: 0.785 ug/l

RT: 7.859 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN075194.D

Acq: 07 Nov 2022 17:46

Instrument :

MSVOA_N

ClientSampleId :

TUL-ROS-1104

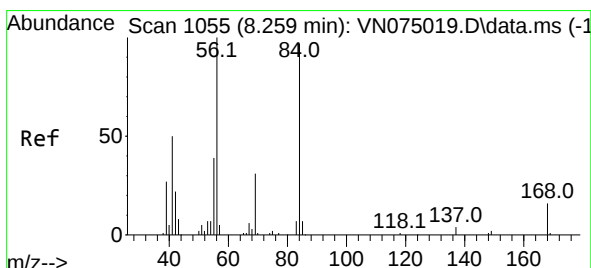
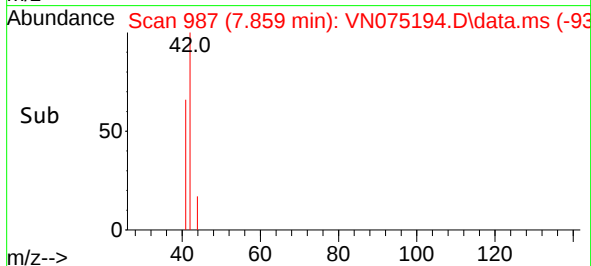
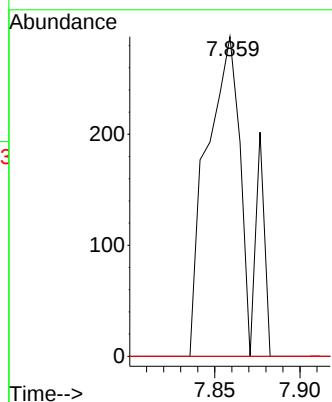
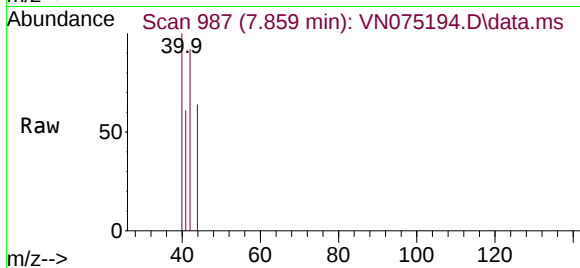
Tgt Ion: 42 Resp: 455

Ion Ratio Lower Upper

42 100

72 0.0 43.0 64.6#

71 0.0 39.9 59.9#



#31

Cyclohexane

Concen: 1.090 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.030 min

Lab File: VN075194.D

Acq: 07 Nov 2022 17:46

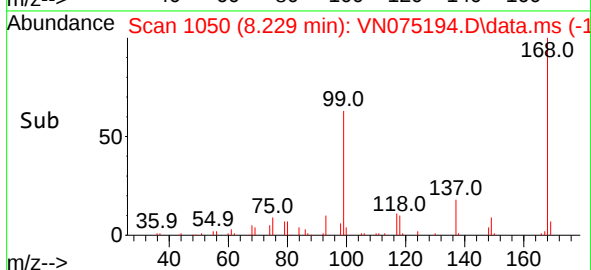
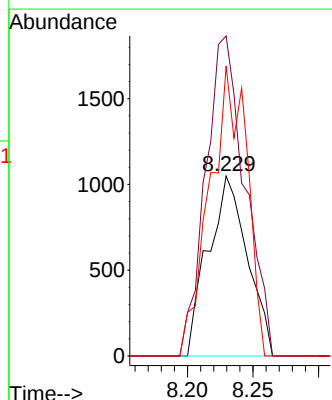
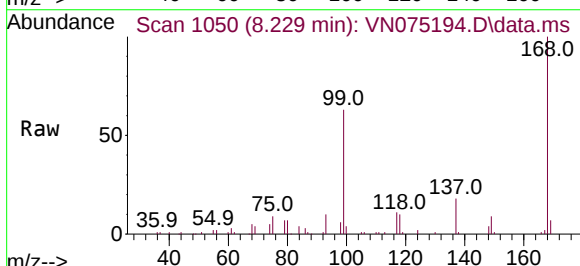
Tgt Ion: 56 Resp: 2184

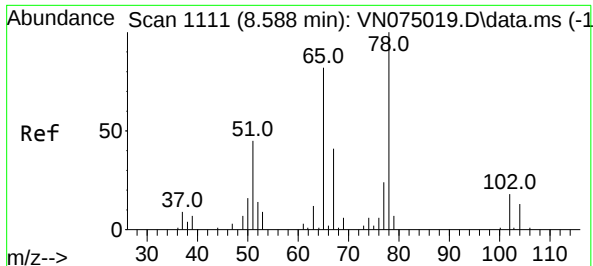
Ion Ratio Lower Upper

56 100

69 177.7 25.2 37.8#

84 161.0 77.8 116.8#





#33

1,2-Dichloroethane-d4

Concen: 58.980 ug/l

RT: 8.582 min Scan# 1111

Delta R.T. -0.006 min

Lab File: VN075194.D

Acq: 07 Nov 2022 17:46

Instrument :

MSVOA_N

ClientSampleId :

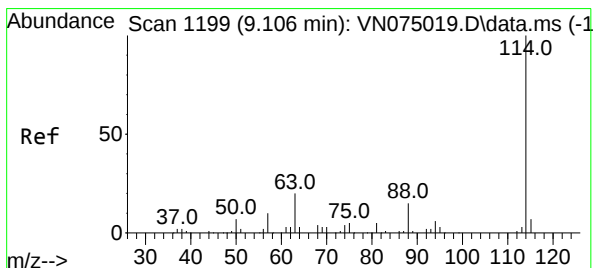
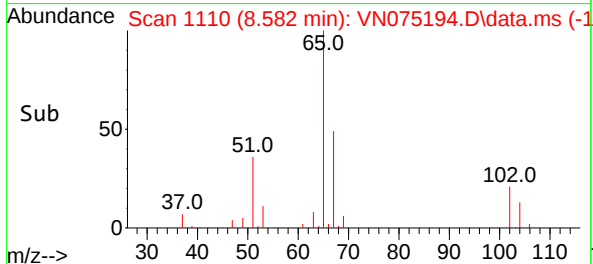
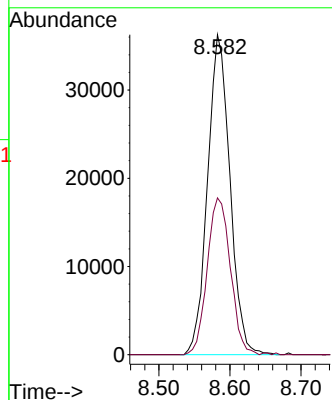
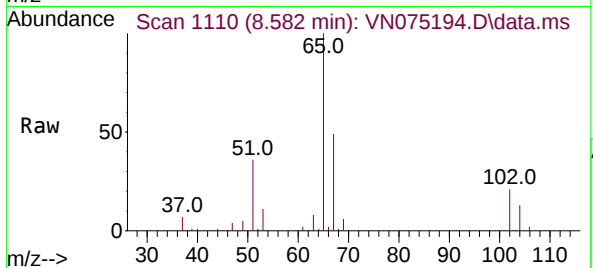
TUL-ROS-1104

Tgt Ion: 65 Resp: 79436

Ion Ratio Lower Upper

65 100

67 50.6 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. -0.000 min

Lab File: VN075194.D

Acq: 07 Nov 2022 17:46

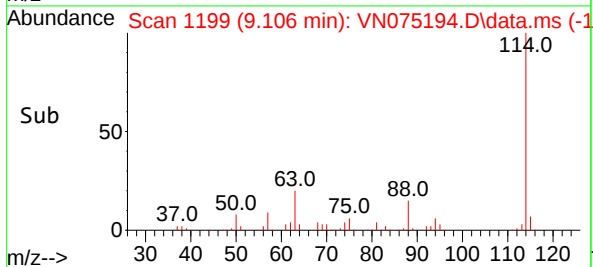
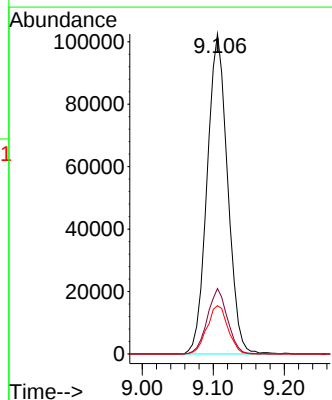
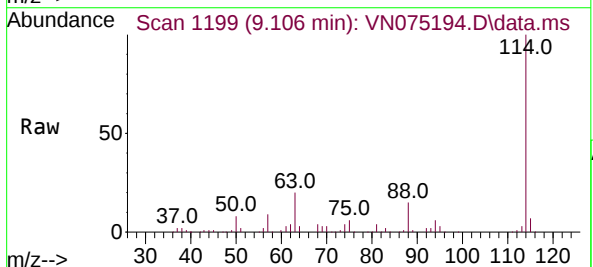
Tgt Ion: 114 Resp: 205127

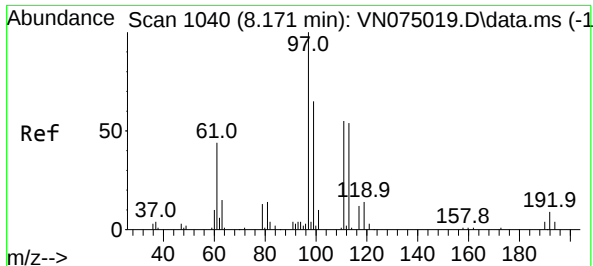
Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.6

88 15.1 0.0 29.0





#35

Dibromofluoromethane

Concen: 51.709 ug/l

RT: 8.177 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VN075194.D

Acq: 07 Nov 2022 17:46

Instrument :

MSVOA_N

ClientSampleId :

TUL-ROS-1104

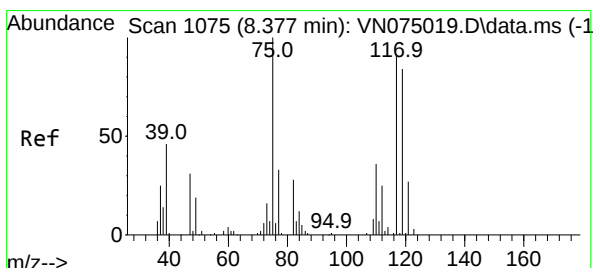
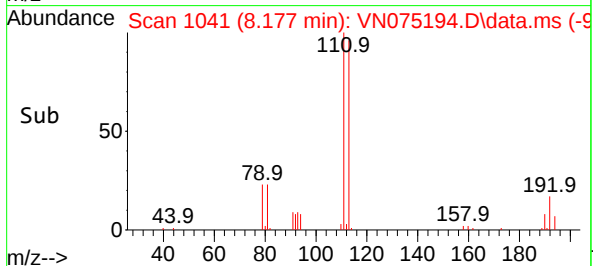
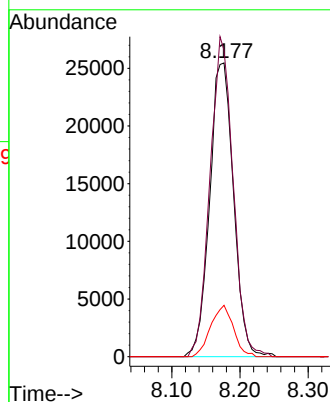
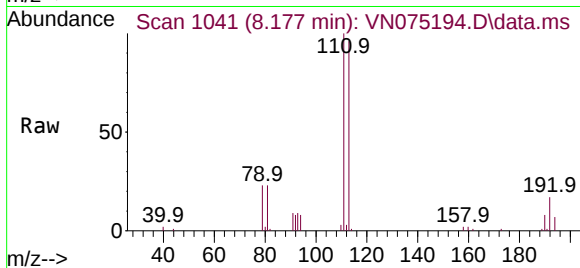
Tgt Ion:113 Resp: 62268

Ion Ratio Lower Upper

113 100

111 105.2 80.5 120.7

192 16.7 13.2 19.8



#36

1,1-Dichloropropene

Concen: 4.947 ug/l

RT: 8.229 min Scan# 1050

Delta R.T. -0.148 min

Lab File: VN075194.D

Acq: 07 Nov 2022 17:46

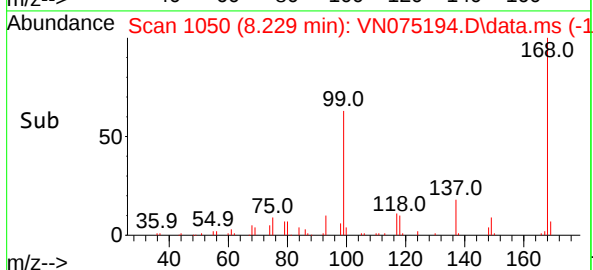
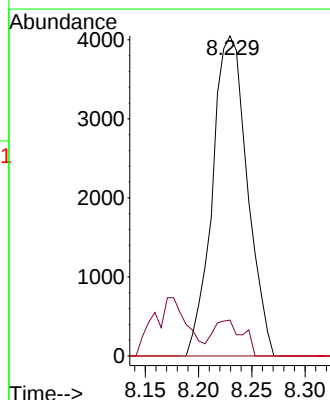
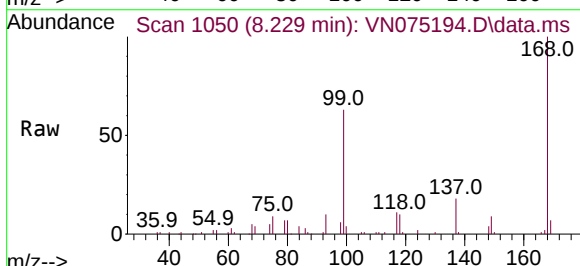
Tgt Ion: 75 Resp: 9223

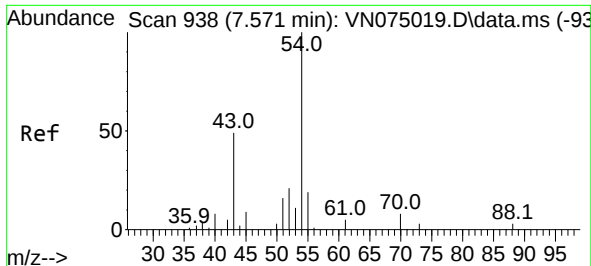
Ion Ratio Lower Upper

75 100

110 9.4 17.8 53.3#

77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 8.703 ug/l

RT: 7.571 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN075194.D

Acq: 07 Nov 2022 17:46

Instrument :

MSVOA_N

ClientSampleId :

TUL-ROS-1104

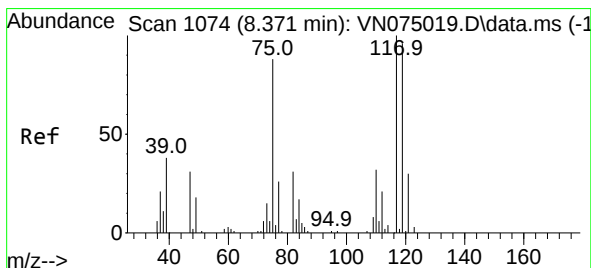
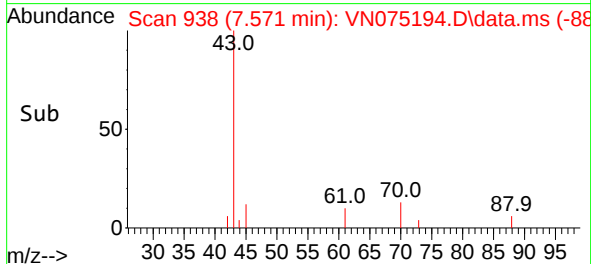
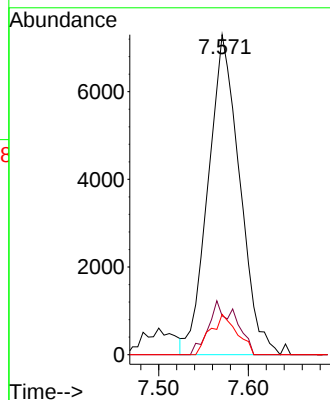
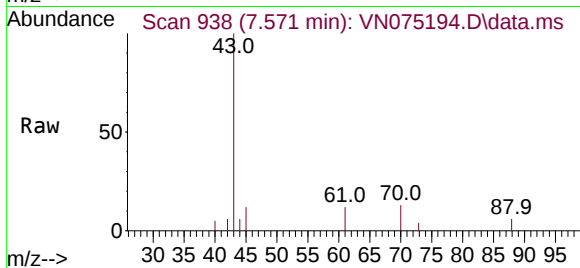
Tgt Ion: 43 Resp: 17793

Ion Ratio Lower Upper

43 100

61 14.5 12.2 18.4

70 10.6 9.4 14.2



#38

Carbon Tetrachloride

Concen: 5.370 ug/l

RT: 8.235 min Scan# 1051

Delta R.T. -0.136 min

Lab File: VN075194.D

Acq: 07 Nov 2022 17:46

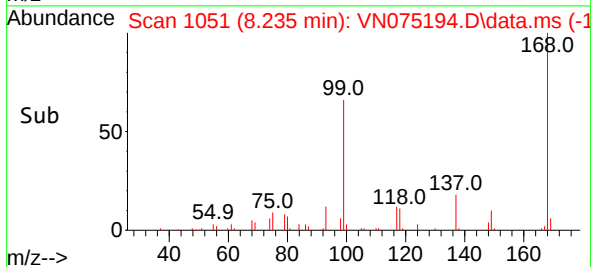
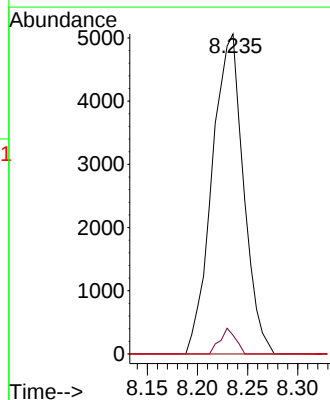
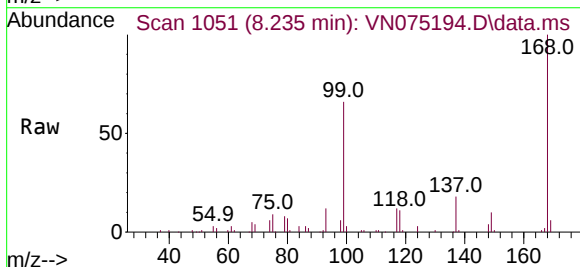
Tgt Ion: 117 Resp: 11012

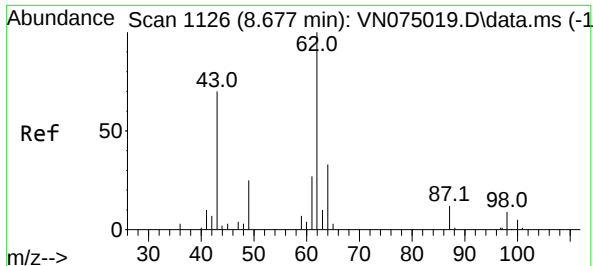
Ion Ratio Lower Upper

117 100

119 5.8 76.7 115.1#

121 0.0 23.9 35.9#





#42

1,2-Dichloroethane

Concen: 0.582 ug/l

RT: 8.671 min Scan# 1125

Delta R.T. -0.006 min

Lab File: VN075194.D

Acq: 07 Nov 2022 17:46

Instrument :

MSVOA_N

ClientSampleId :

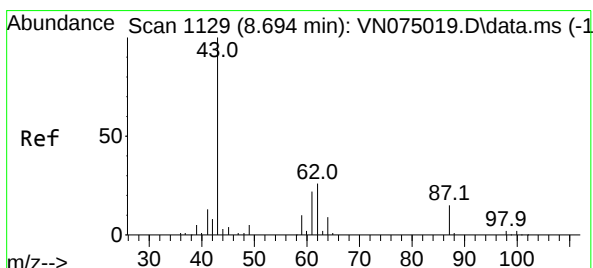
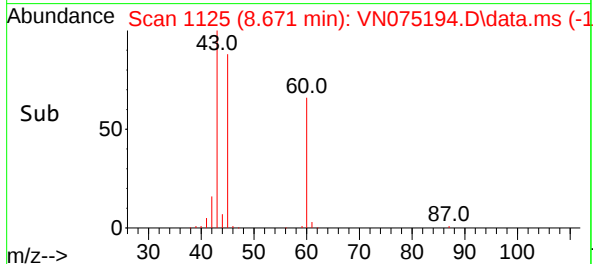
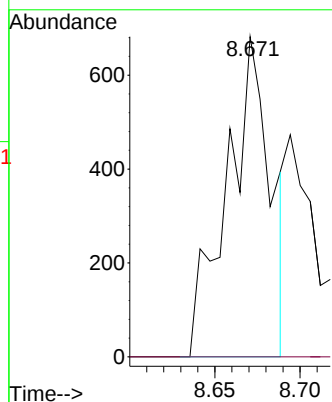
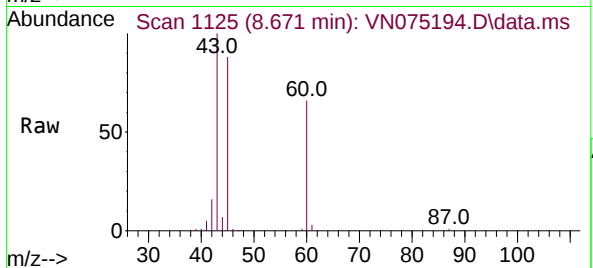
TUL-ROS-1104

Tgt Ion: 62 Resp: 1209

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 193.995 ug/l

RT: 8.665 min Scan# 1124

Delta R.T. -0.029 min

Lab File: VN075194.D

Acq: 07 Nov 2022 17:46

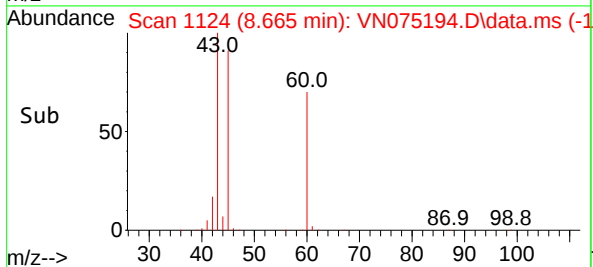
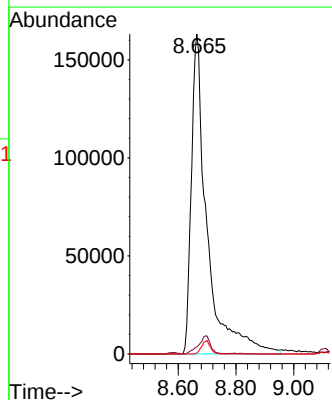
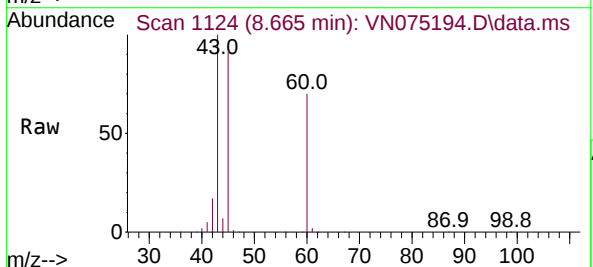
Tgt Ion: 43 Resp: 615230

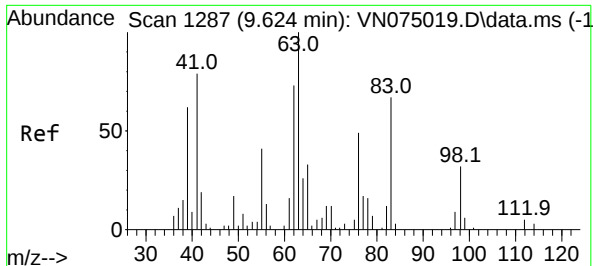
Ion Ratio Lower Upper

43 100

61 0.0 22.4 33.6#

87 0.0 12.5 18.7#





#45

1,2-Dichloropropane

Concen: 0.664 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN075194.D

Acq: 07 Nov 2022 17:46

Instrument :

MSVOA_N

ClientSampleId :

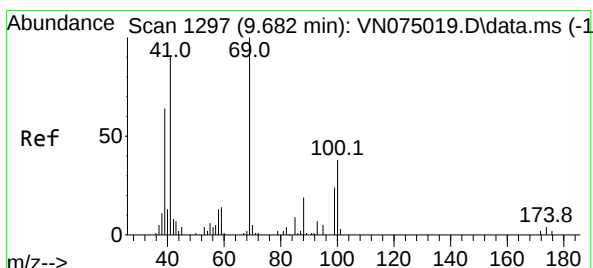
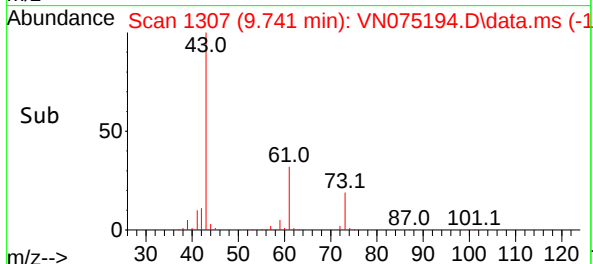
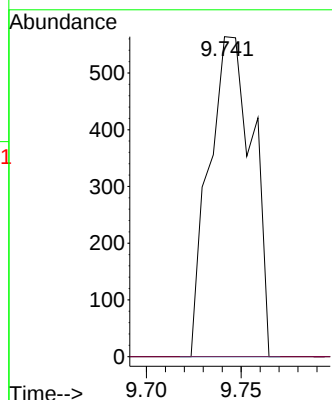
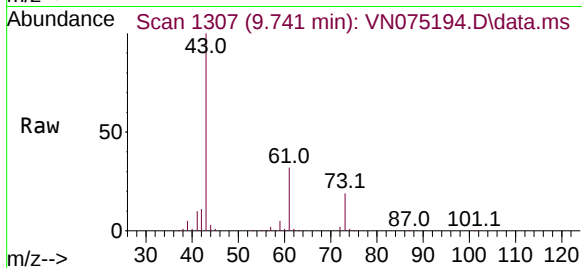
TUL-ROS-1104

Tgt Ion: 63 Resp: 902

Ion Ratio Lower Upper

63 100

65 0.0 26.1 39.1#



#48

Methyl methacrylate

Concen: 50.020 ug/l

RT: 9.747 min Scan# 1308

Delta R.T. 0.065 min

Lab File: VN075194.D

Acq: 07 Nov 2022 17:46

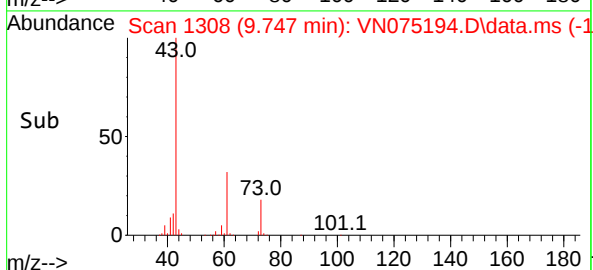
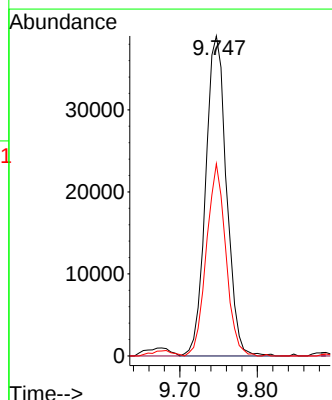
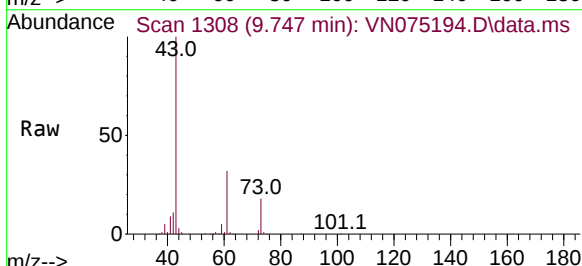
Tgt Ion: 41 Resp: 72767

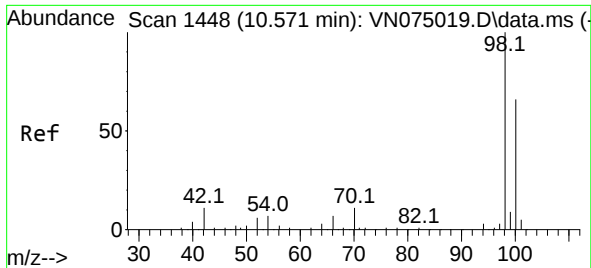
Ion Ratio Lower Upper

41 100

69 0.0 80.2 120.2#

39 56.0 56.2 84.2#

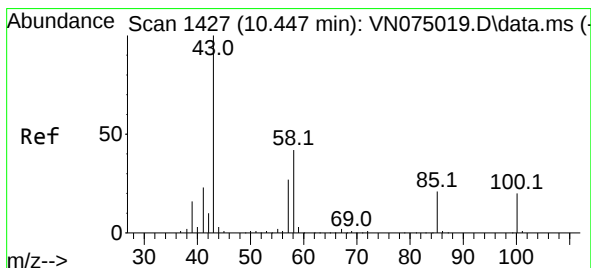
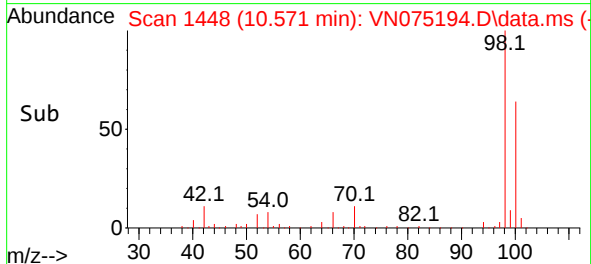
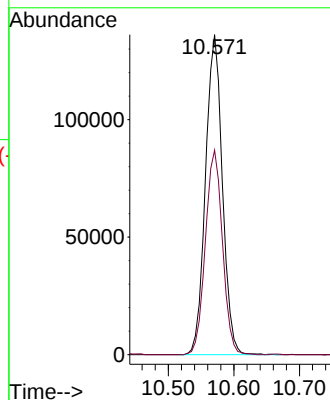
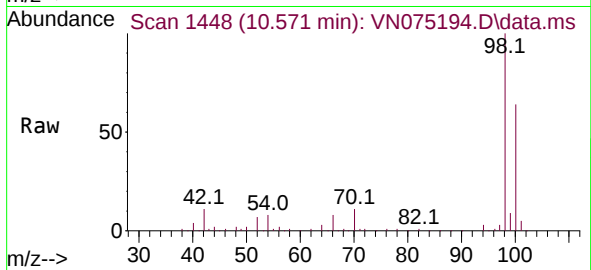




#50
Toluene-d8
Concen: 52.183 ug/l
RT: 10.571 min Scan# 1448
Delta R.T. -0.000 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

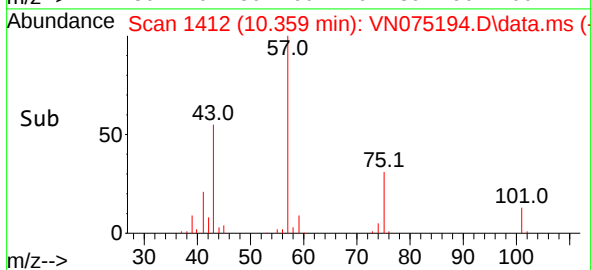
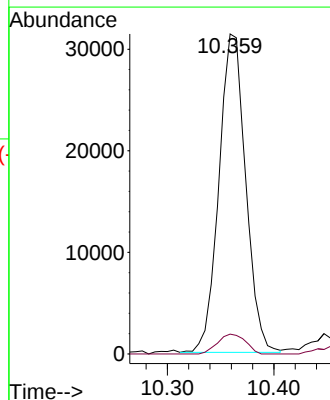
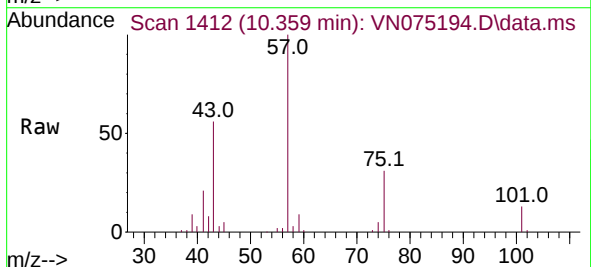
Instrument :
MSVOA_N
ClientSampleId :
TUL-ROS-1104

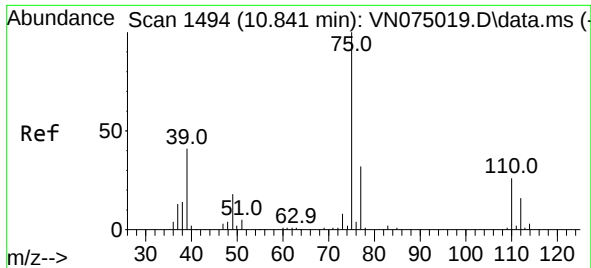
Tgt Ion: 98 Resp: 243796
Ion Ratio Lower Upper
98 100
100 64.8 53.0 79.6



#51
4-Methyl-2-Pentanone
Concen: 26.753 ug/l
RT: 10.359 min Scan# 1412
Delta R.T. -0.088 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

Tgt Ion: 43 Resp: 54749
Ion Ratio Lower Upper
43 100
58 6.5 33.6 50.4#

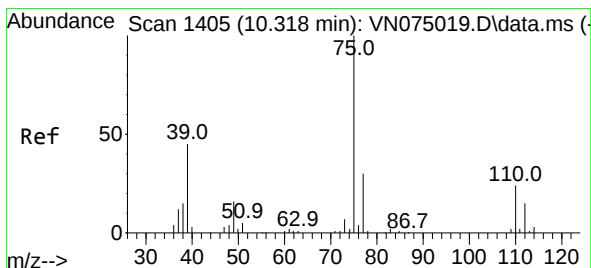
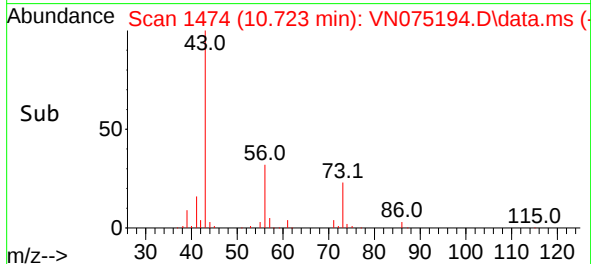
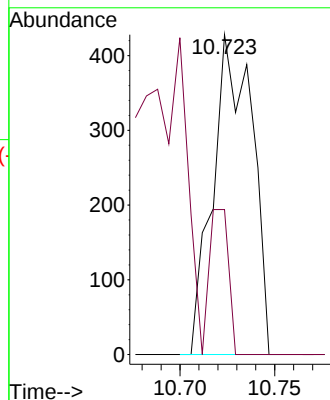
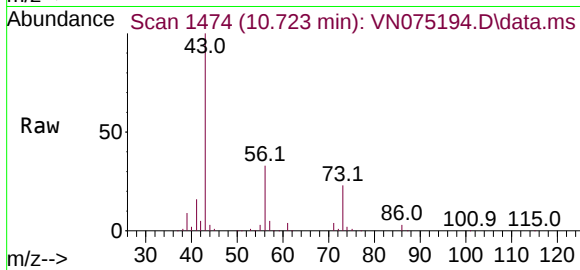




#53
 t-1,3-Dichloropropene
 Concen: 0.285 ug/l
 RT: 10.723 min Scan# 1412
 Delta R.T. -0.118 min
 Lab File: VN075194.D
 Acq: 07 Nov 2022 17:46

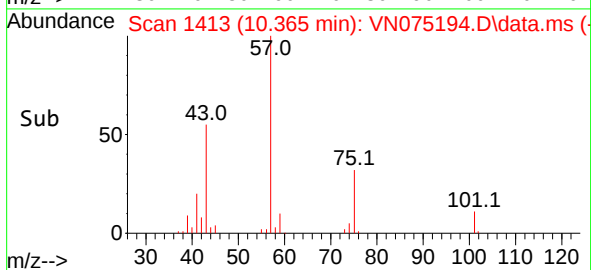
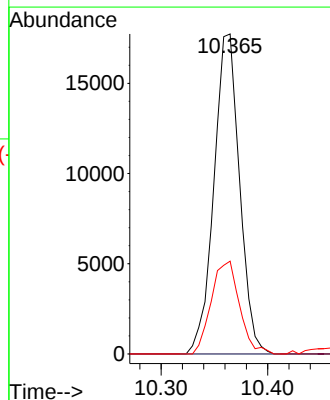
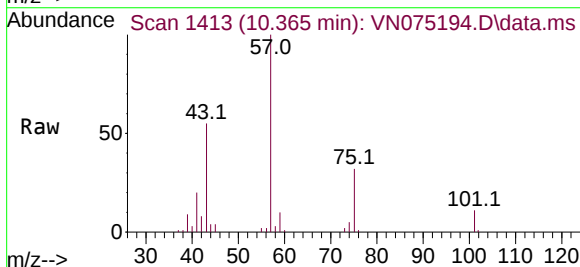
Instrument :
 MSVOA_N
 ClientSampleId :
 TUL-ROS-1104

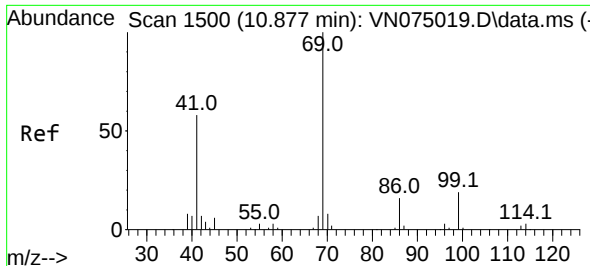
Tgt Ion: 75 Resp: 617
 Ion Ratio Lower Upper
 75 100
 77 45.3 25.4 38.2#



#54
 cis-1,3-Dichloropropene
 Concen: 12.925 ug/l
 RT: 10.365 min Scan# 1413
 Delta R.T. 0.047 min
 Lab File: VN075194.D
 Acq: 07 Nov 2022 17:46

Tgt Ion: 75 Resp: 29656
 Ion Ratio Lower Upper
 75 100
 77 0.0 23.7 35.5#
 39 29.0 35.8 53.6#

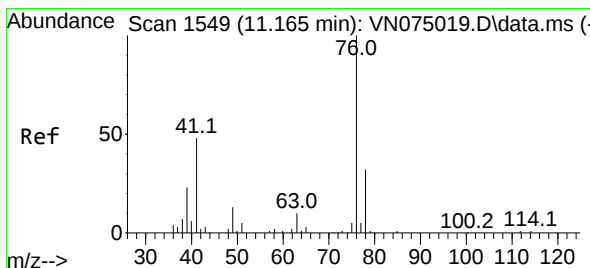
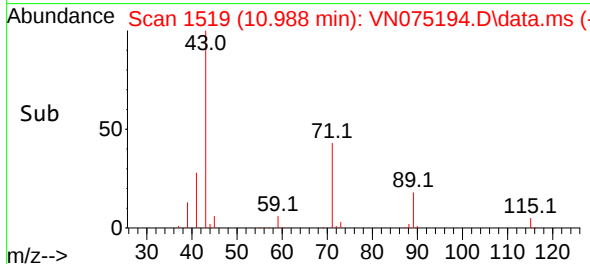
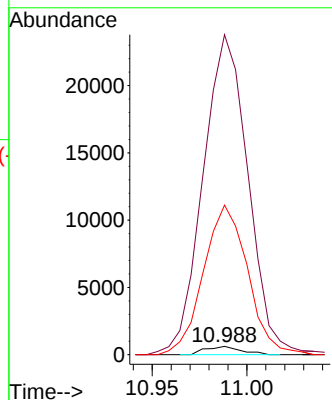
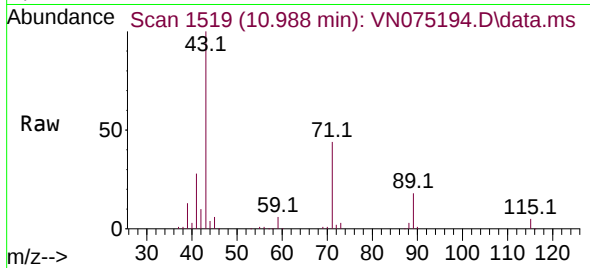




#56
Ethyl methacrylate
Concen: 0.348 ug/l
RT: 10.988 min Scan# 1519
Delta R.T. 0.111 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

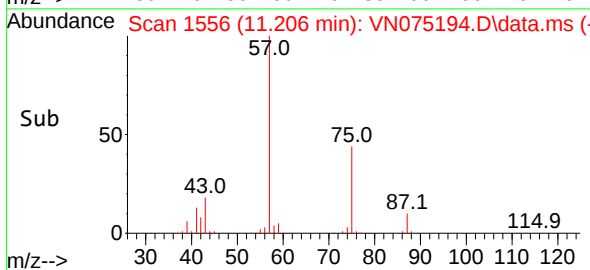
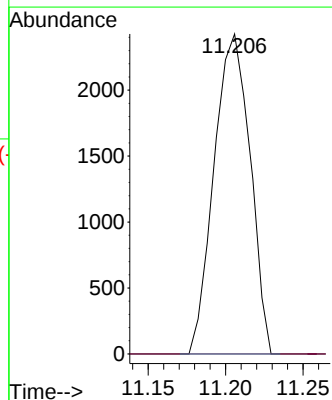
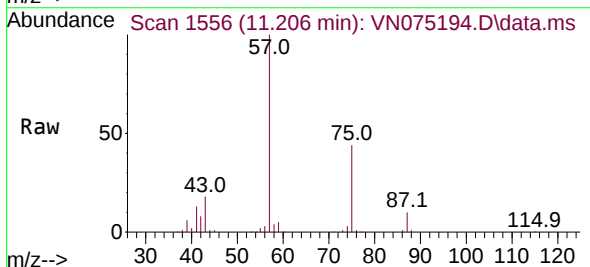
Instrument :
MSVOA_N
ClientSampleId :
TUL-ROS-1104

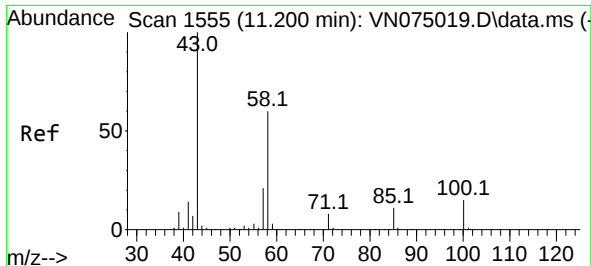
Tgt Ion: 69 Resp: 804
Ion Ratio Lower Upper
69 100
41 4923.0 45.6 68.4#
39 2249.1 28.5 42.7#



#57
1,3-Dichloropropane
Concen: 1.557 ug/l
RT: 11.206 min Scan# 1556
Delta R.T. 0.041 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

Tgt Ion: 76 Resp: 3922
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#

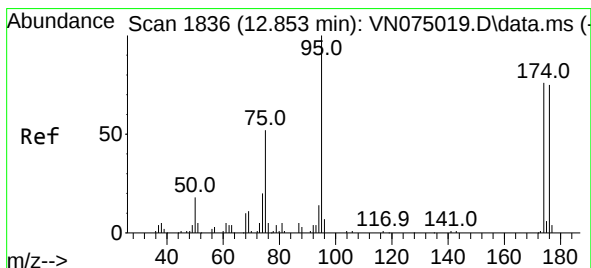
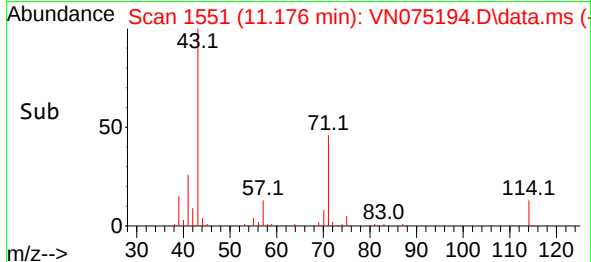
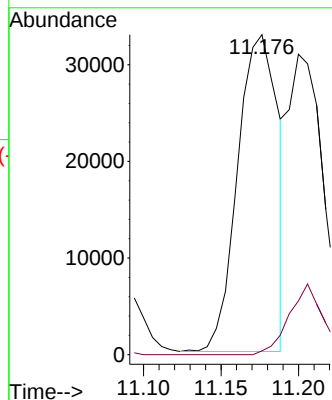
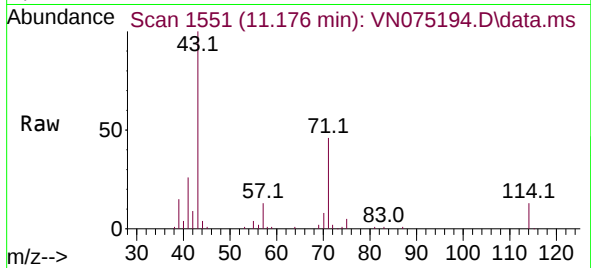




#59
2-Hexanone
Concen: 38.110 ug/l
RT: 11.176 min Scan# 11551
Delta R.T. -0.024 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

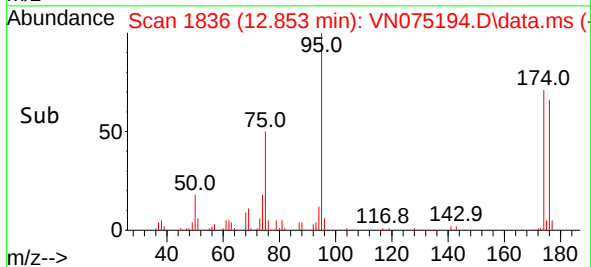
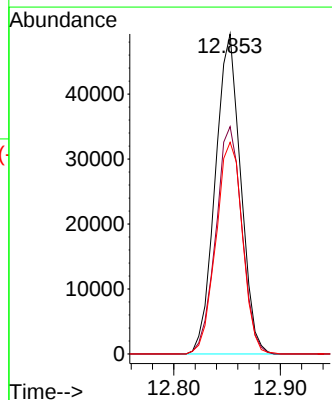
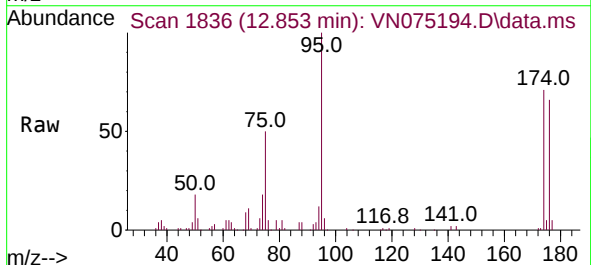
Instrument :
MSVOA_N
ClientSampleId :
TUL-ROS-1104

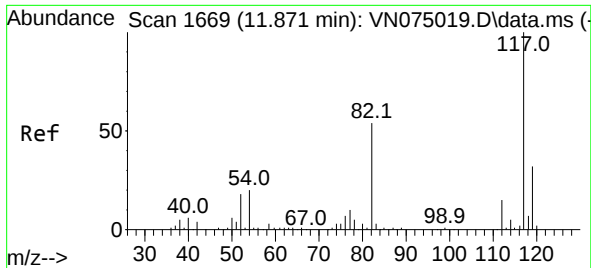
Tgt Ion: 43 Resp: 59193
Ion Ratio Lower Upper
43 100
58 0.0 29.6 88.8#



#62
4-Bromofluorobenzene
Concen: 49.612 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

Tgt Ion: 95 Resp: 81422
Ion Ratio Lower Upper
95 100
174 73.1 0.0 147.4
176 69.1 0.0 142.2

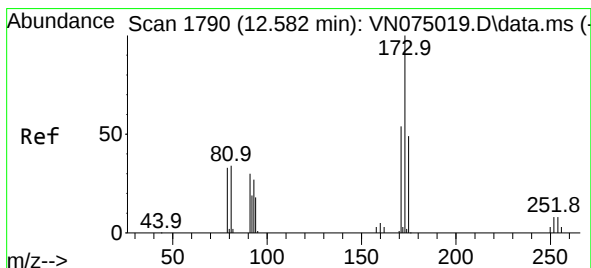
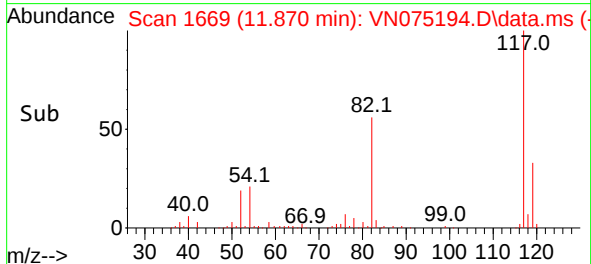
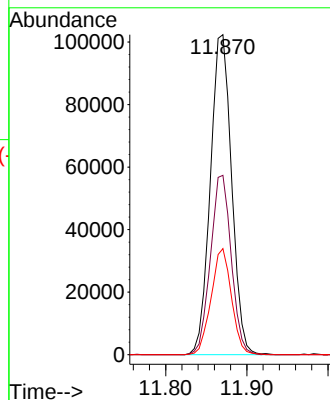
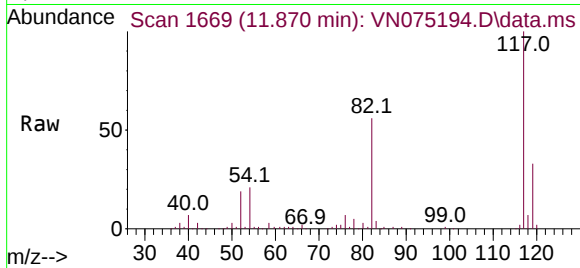




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 11
Delta R.T. -0.001 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

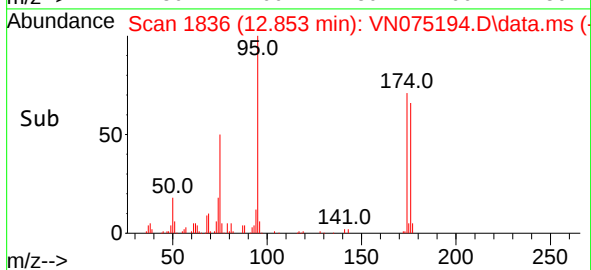
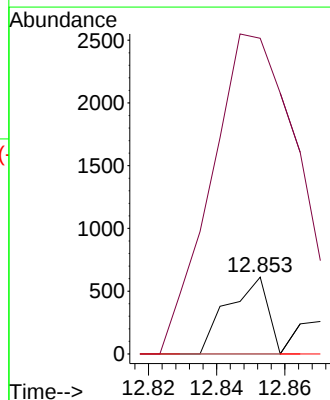
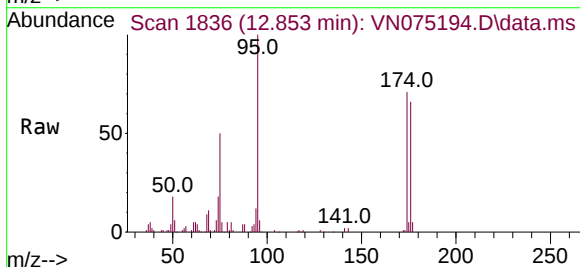
Instrument :
MSVOA_N
ClientSampleId :
TUL-ROS-1104

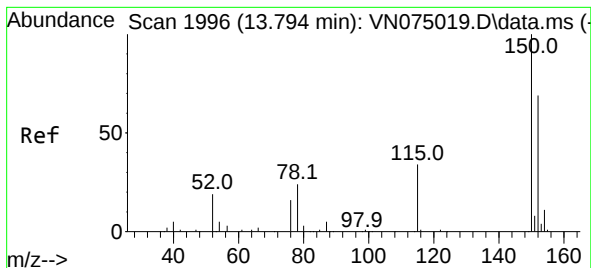
Tgt Ion:117 Resp: 186055
Ion Ratio Lower Upper
117 100
82 56.1 43.1 64.7
119 33.1 25.5 38.3



#71
Bromoform
Concen: 0.451 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

Tgt Ion:173 Resp: 498
Ion Ratio Lower Upper
173 100
175 731.5 24.6 74.0#
254 0.0 0.0 0.0

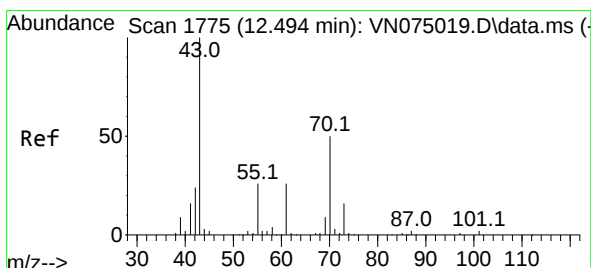
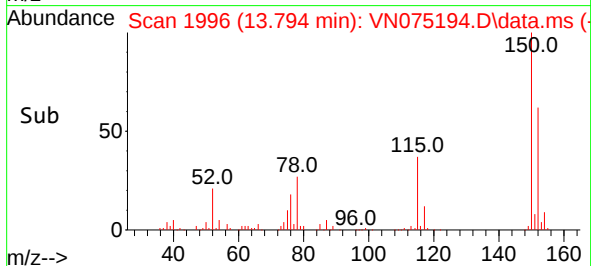
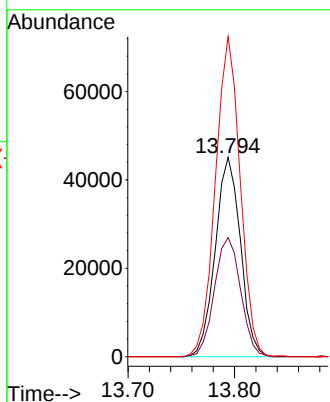
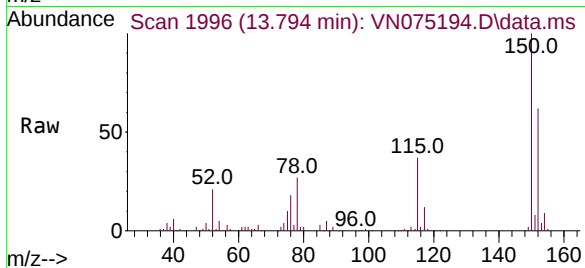




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

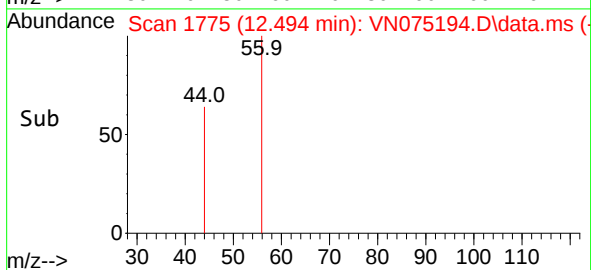
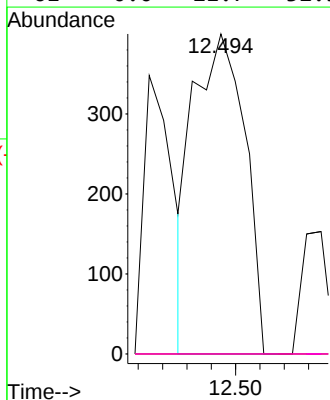
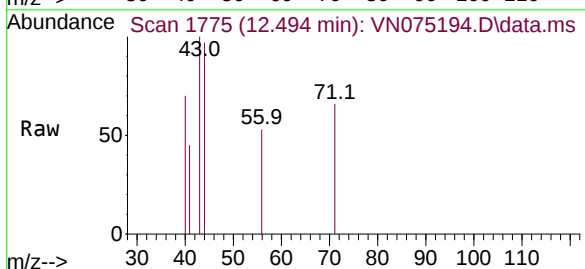
Instrument :
MSVOA_N
ClientSampleId :
TUL-ROS-1104

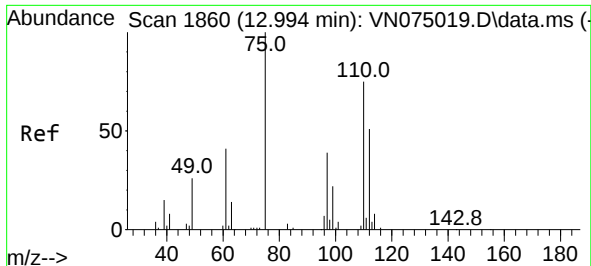
Tgt Ion:152 Resp: 73932
Ion Ratio Lower Upper
152 100
115 62.2 30.2 90.6
150 158.2 0.0 348.4



#74
N-ethyl acetate
Concen: 0.267 ug/l
RT: 12.494 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

Tgt Ion: 43 Resp: 587
Ion Ratio Lower Upper
43 100
70 0.0 39.8 59.8#
55 0.0 19.9 29.9#
61 0.0 21.7 32.5#

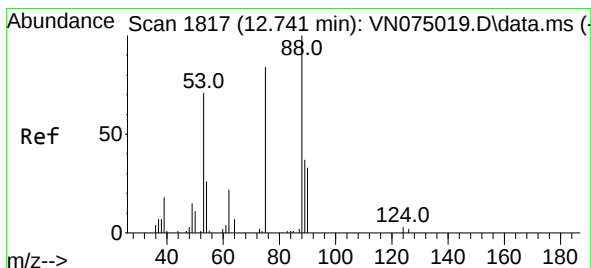
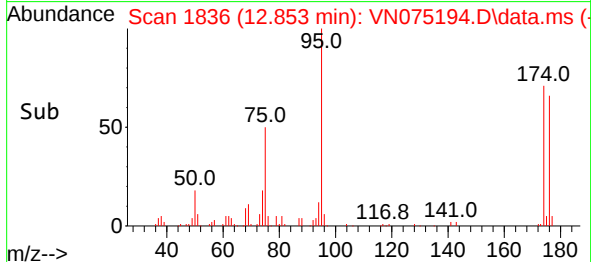
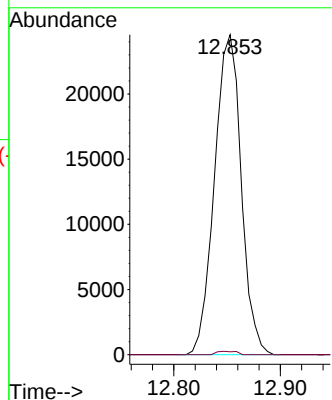
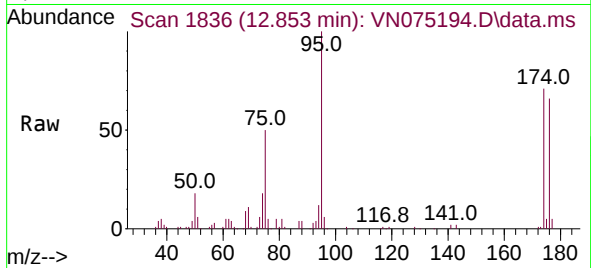




#76
1,2,3-Trichloropropane
Concen: 27.209 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

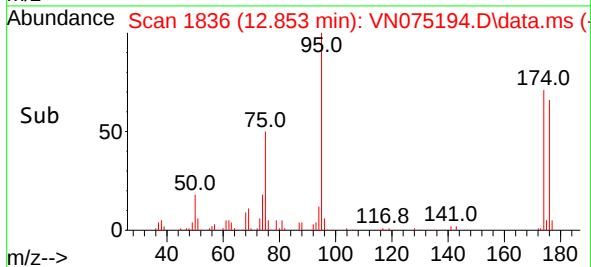
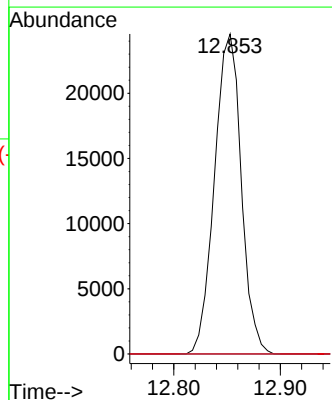
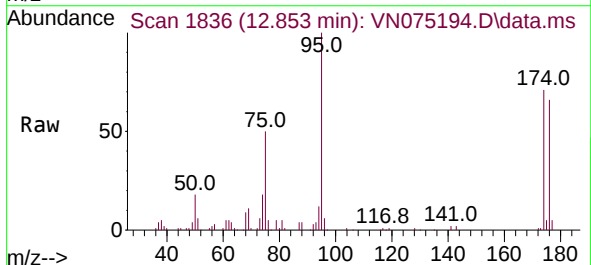
Instrument :
MSVOA_N
ClientSampleId :
TUL-ROS-1104

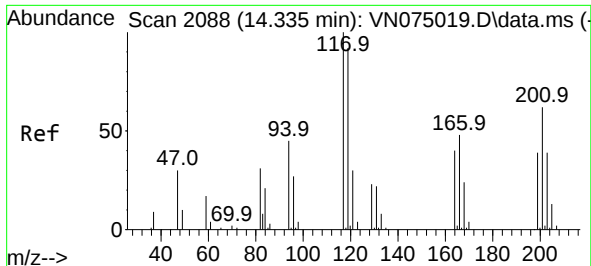
Tgt Ion: 75 Resp: 42712
Ion Ratio Lower Upper
75 100
77 0.8 75.6 226.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 69.845 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

Tgt Ion: 75 Resp: 42712
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 37.7 56.5#

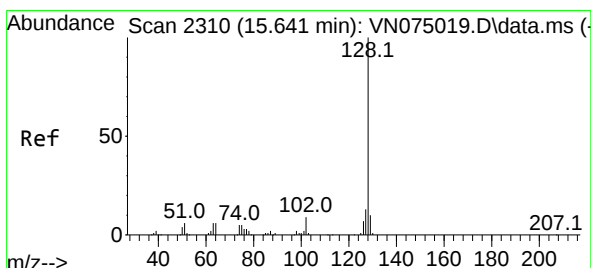
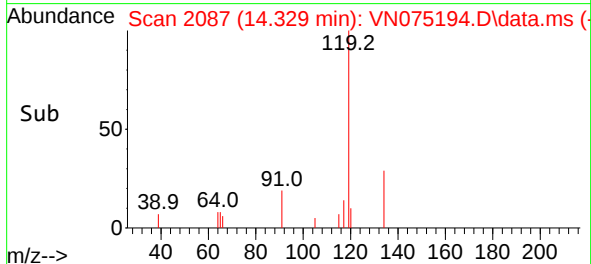
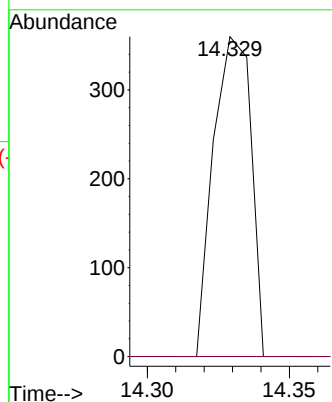
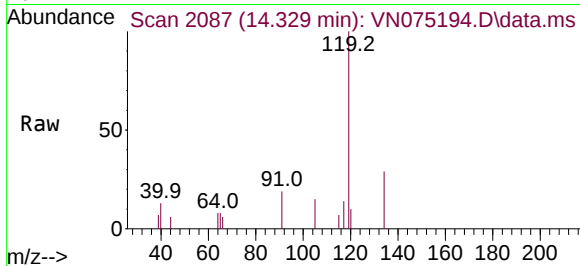




#90
Hexachloroethane
Concen: 0.354 ug/l
RT: 14.329 min Scan# 2087
Delta R.T. -0.006 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

Instrument :
MSVOA_N
ClientSampleId :
TUL-ROS-1104

Tgt Ion:117 Resp: 332
Ion Ratio Lower Upper
117 100
201 0.0 31.5 94.5#



#95
Naphthalene
Concen: 0.254 ug/l
RT: 15.641 min Scan# 2310
Delta R.T. -0.000 min
Lab File: VN075194.D
Acq: 07 Nov 2022 17:46

Tgt Ion:128 Resp: 1070
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.6 12.8#

